

## Cover Page

**Order ID :** Q2118

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

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

### Lab Sample Number

Q2118-01  
Q2118-02  
Q2118-03  
Q2118-04  
Q2118-05  
Q2118-06  
Q2118-07  
Q2118-08  
Q2118-09  
Q2118-10  
Q2118-11

### Client Sample Number

BP-VPB-182-TB-20250520  
BP-VPB-182-GW-420-422  
BP-VPB-182-GW-450-452  
BP-VPB-182-DUP-20250520  
BP-VPB-182-GW-460-462  
BP-VPB-182-GW-480-482  
BP-VPB-182-GW-500-502  
BP-VPB-182-GW-520-522  
BP-VPB-182-GW-540-542  
BP-VPB-182-GW-560-562  
BP-VPB-182-GW-500-502

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: 5/30/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012



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

## **CASE NARRATIVE**

**Tetra Tech NUS, Inc.**

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

**Project Manager # Ernie Wu**

**Order ID # Q2118**

**Test Name: SVOC-SIMGroup1**

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

1 Solid sample was received on 05/22/2025.

10 Water samples were received on 05/22/2025.

### **B. Parameters**

According to the Chain of Custody document, the following analyses were requested: SVOC-SIMGroup1 and VOCMS Group1. This data package contains results for SVOC-SIMGroup1.

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

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

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

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria except for, BP-VPB-182-GW-420-422 [Terphenyl-d14 - 137%], BP-VPB-182-GW-460-462 [Terphenyl-d14 - 137%] and BP-VPB-182-GW-540-542 [Terphenyl-d14 - 136%]. Failed surrogate is not associated with DOD, therefor no further corrective action was taken.

The Internal Standards Areas met the acceptable requirements.

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.



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

**E. Additional Comments:**

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

Sample BP-VPB-182-GW-500-502 used limited volume as sample is muddy.

Sample BP-VPB-182-GW-500-502 has limited volume received.

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.

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.

**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\_\_\_\_\_

## DATA REPORTING QUALIFIERS- ORGANIC

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

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



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

ORDER ID: Q2118

MATRIX: Water

METHOD: 8270-Modified/3510

|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | NA | NO | YES |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|-----|
| 1. | Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)                                                                                                                                                                                                                                                                                                                                                                                               |    |    | ✓   |
| 2. | GC/MS Tuning Specifications. DFTPP Meet Criteria.<br>(NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP,<br>CLP AND NJ)                                                                                                                                                                                                                                                                                                                                                 |    |    | ✓   |
| 3. | GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for<br>8000 Series.                                                                                                                                                                                                                                                                                                                                                                           |    |    | ✓   |
| 4. | GC/MS Calibration - Initial Calibration performed within 30 days before sample<br>analysis and continuing calibration performed within 24 hours of sample analysis for<br>600 series and 12 hours for 8000 series.                                                                                                                                                                                                                                                          |    |    | ✓   |
| 5. | GC/MS Calibration Requirements.<br><br>The Initial Calibration met the requirements.<br>The Continuous Calibration met the requirements.                                                                                                                                                                                                                                                                                                                                    |    |    | ✓   |
| 6. | Blank Contamination - If yes, list compounds and concentrations in each blank:                                                                                                                                                                                                                                                                                                                                                                                              |    |    | ✓   |
| 7. | Surrogate Recoveries Meet Criteria<br><br>If not met, list those compounds and their recoveries which fall outside the acceptable<br>ranges.<br><br>The Surrogate recoveries met the acceptable criteria except for,<br>BP-VPB-182-GW-420-422 [Terphenyl-d14 - 137%],<br>BP-VPB-182-GW-460-462 [Terphenyl-d14 - 137%] and<br>BP-VPB-182-GW-540-542 [Terphenyl-d14 - 136%]. Failed surrogate is not associated<br>with DOD, therefor no further corrective action was taken. |    |    | ✓   |

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

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

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

**(CONTINUED)**

|                                                                                                                  | NA | NO | YES |
|------------------------------------------------------------------------------------------------------------------|----|----|-----|
| 8. Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria                                                  |    |    | ✓   |
| If not met, list those compounds and their recoveries which fall outside the acceptable range.                   |    |    |     |
| The Blank Spike met requirements for all samples.<br>The Blank Spike Duplicate met requirements for all samples. |    |    |     |
| 9. Internal Standard Area/Retention Time Shift Meet Criteria                                                     |    | ✓  |     |
| Comments: The Internal Standards Areas met the acceptable requirements.                                          |    |    |     |
| 10. Extraction Holding Time Met                                                                                  |    |    | ✓   |
| If not met, list number of days exceeded for each sample:                                                        |    |    |     |
| 11. Analysis Holding Time Met                                                                                    |    |    | ✓   |
| If not met, list number of days exceeded for each sample:                                                        |    |    |     |

ADDITIONAL COMMENTS:

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

Sample BP-VPB-182-GW-500-502 used limited volume as sample is muddy.

Sample BP-VPB-182-GW-500-502 has limited volume received.

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.

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 #: Q2118

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: 05/30/2025

## LAB CHRONICLE

|                 |                      |                   |                                        |
|-----------------|----------------------|-------------------|----------------------------------------|
| <b>OrderID:</b> | Q2118                | <b>OrderDate:</b> | 5/22/2025 3:57:00 PM                   |
| <b>Client:</b>  | Tetra Tech NUS, Inc. | <b>Project:</b>   | NWIRP Bethpage 112G08005-WE13          |
| <b>Contact:</b> | Ernie Wu             | <b>Location:</b>  | L41,VOA Ref. #2 Soil,VOA Ref. #3 Water |

| LabID           | ClientID                     | Matrix       | Test           | Method        | Sample Date     | Prep Date | Anal Date | Received        |
|-----------------|------------------------------|--------------|----------------|---------------|-----------------|-----------|-----------|-----------------|
| <b>Q2118-02</b> | <b>BP-VPB-182-GW-420-422</b> | <b>Water</b> |                |               | <b>05/20/25</b> |           |           | <b>05/22/25</b> |
|                 |                              |              | SVOC-SIMGroup1 | 8270-Modified |                 | 05/23/25  | 05/28/25  |                 |
| <b>Q2118-05</b> | <b>BP-VPB-182-GW-460-462</b> | <b>Water</b> |                |               | <b>05/21/25</b> |           |           | <b>05/22/25</b> |
|                 |                              |              | SVOC-SIMGroup1 | 8270-Modified |                 | 05/23/25  | 05/28/25  |                 |
| <b>Q2118-07</b> | <b>BP-VPB-182-GW-500-502</b> | <b>Water</b> |                |               | <b>05/21/25</b> |           |           | <b>05/22/25</b> |
|                 |                              |              | SVOC-SIMGroup1 | 8270-Modified |                 | 05/23/25  | 05/28/25  |                 |
| <b>Q2118-09</b> | <b>BP-VPB-182-GW-540-542</b> | <b>Water</b> |                |               | <b>05/22/25</b> |           |           | <b>05/22/25</b> |
|                 |                              |              | SVOC-SIMGroup1 | 8270-Modified |                 | 05/23/25  | 05/29/25  |                 |



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

### Hit Summary Sheet SW-846

SDG No.: Q2118

Client: Tetra Tech NUS, Inc.

| Sample ID                                | Client ID                  | Parameter                   | Concentration | C | MDL         | LOD  | RDL  | Units |
|------------------------------------------|----------------------------|-----------------------------|---------------|---|-------------|------|------|-------|
| <b>Client ID : BP-VPB-182-GW-420-422</b> |                            |                             |               |   |             |      |      |       |
| Q2118-02                                 | BP-VPB-182-GW-420-42 WATER | 1,4-Dioxane                 | 0.150         | J | 0.08        | 0.24 | 0.24 | ug/L  |
|                                          |                            | <b>Total Svoc :</b>         |               |   | <b>0.15</b> |      |      |       |
|                                          |                            | <b>Total Concentration:</b> |               |   | <b>0.15</b> |      |      |       |
| <b>Client ID : BP-VPB-182-GW-460-462</b> |                            |                             |               |   |             |      |      |       |
| Q2118-05                                 | BP-VPB-182-GW-460-46 WATER | 1,4-Dioxane                 | 0.200         | J | 0.08        | 0.24 | 0.24 | ug/L  |
|                                          |                            | <b>Total Svoc :</b>         |               |   | <b>0.20</b> |      |      |       |
|                                          |                            | <b>Total Concentration:</b> |               |   | <b>0.20</b> |      |      |       |



# QC SUMMARY

## Surrogate Summary

SW-846

SDG No.: Q2118

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified

| Lab Sample ID | Client ID             | Parameter               | Spike (PPM) | Result (PPM) | Recovery (%) | Qual | Limits (%) |      |
|---------------|-----------------------|-------------------------|-------------|--------------|--------------|------|------------|------|
|               |                       |                         |             |              |              |      | Low        | High |
| PB168155BL    | PB168155BL            | 2-Methylnaphthalene-d10 | 0.4         | 0.33         | 83           |      | 30         | 150  |
|               |                       | Fluoranthene-d10        | 0.4         | 0.32         | 80           |      | 30         | 150  |
|               |                       | Nitrobenzene-d5         | 0.4         | 0.32         | 80           |      | 55         | 111  |
|               |                       | 2-Fluorobiphenyl        | 0.4         | 0.35         | 86           |      | 53         | 106  |
|               |                       | Terphenyl-d14           | 0.4         | 0.44         | 109          |      | 58         | 132  |
| PB168155BS    | PB168155BS            | 2-Methylnaphthalene-d10 | 0.4         | 0.38         | 95           |      | 30         | 150  |
|               |                       | Fluoranthene-d10        | 0.4         | 0.30         | 75           |      | 30         | 150  |
|               |                       | Nitrobenzene-d5         | 0.4         | 0.34         | 85           |      | 55         | 111  |
|               |                       | 2-Fluorobiphenyl        | 0.4         | 0.35         | 87           |      | 53         | 106  |
|               |                       | Terphenyl-d14           | 0.4         | 0.42         | 105          |      | 58         | 132  |
| PB168155BSD   | PB168155BSD           | 2-Methylnaphthalene-d10 | 0.4         | 0.39         | 97           |      | 30         | 150  |
|               |                       | Fluoranthene-d10        | 0.4         | 0.30         | 76           |      | 30         | 150  |
|               |                       | Nitrobenzene-d5         | 0.4         | 0.36         | 89           |      | 55         | 111  |
|               |                       | 2-Fluorobiphenyl        | 0.4         | 0.37         | 93           |      | 53         | 106  |
|               |                       | Terphenyl-d14           | 0.4         | 0.42         | 106          |      | 58         | 132  |
| Q2118-02      | BP-VPB-182-GW-420-422 | 2-Methylnaphthalene-d10 | 0.4         | 0.24         | 60           |      | 30         | 150  |
|               |                       | Fluoranthene-d10        | 0.4         | 0.31         | 77           |      | 30         | 150  |
|               |                       | Nitrobenzene-d5         | 0.4         | 0.26         | 65           |      | 55         | 111  |
|               |                       | 2-Fluorobiphenyl        | 0.4         | 0.25         | 63           |      | 53         | 106  |
|               |                       | Terphenyl-d14           | 0.4         | 0.55         | 137          | *    | 58         | 132  |
| Q2118-05      | BP-VPB-182-GW-460-462 | 2-Methylnaphthalene-d10 | 0.4         | 0.27         | 67           |      | 30         | 150  |
|               |                       | Fluoranthene-d10        | 0.4         | 0.33         | 81           |      | 30         | 150  |
|               |                       | Nitrobenzene-d5         | 0.4         | 0.28         | 70           |      | 55         | 111  |
|               |                       | 2-Fluorobiphenyl        | 0.4         | 0.29         | 73           |      | 53         | 106  |
|               |                       | Terphenyl-d14           | 0.4         | 0.55         | 137          | *    | 58         | 132  |
| Q2118-07      | BP-VPB-182-GW-500-502 | 2-Methylnaphthalene-d10 | 0.4         | 0.30         | 75           |      | 30         | 150  |
|               |                       | Fluoranthene-d10        | 0.4         | 0.26         | 65           |      | 30         | 150  |
|               |                       | Nitrobenzene-d5         | 0.4         | 0.28         | 69           |      | 55         | 111  |
|               |                       | 2-Fluorobiphenyl        | 0.4         | 0.23         | 56           |      | 53         | 106  |
|               |                       | Terphenyl-d14           | 0.4         | 0.33         | 81           |      | 58         | 132  |
| Q2118-09      | BP-VPB-182-GW-540-542 | 2-Methylnaphthalene-d10 | 0.4         | 0.26         | 65           |      | 30         | 150  |
|               |                       | Fluoranthene-d10        | 0.4         | 0.32         | 80           |      | 30         | 150  |
|               |                       | Nitrobenzene-d5         | 0.4         | 0.27         | 67           |      | 55         | 111  |
|               |                       | 2-Fluorobiphenyl        | 0.4         | 0.27         | 67           |      | 53         | 106  |
|               |                       | Terphenyl-d14           | 0.4         | 0.54         | 136          | *    | 58         | 132  |

## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2118

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified DataFile: BN037108.D

| Lab Sample ID | Parameter   | Spike | Result | Unit | Rec | RPD | Qual | RPD  | Low | Limits | RPD |
|---------------|-------------|-------|--------|------|-----|-----|------|------|-----|--------|-----|
|               |             |       |        |      |     |     |      | Qual |     | High   |     |
| PB168155BS    | 1,4-Dioxane | 0.4   | 0.29   | ug/L | 73  |     |      |      | 70  | 130    |     |



## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2118

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified DataFile: BN037109.D

| Lab Sample ID | Parameter   | Spike | Result | Unit | Rec | RPD | Qual | RPD  | Low | Limits | RPD |
|---------------|-------------|-------|--------|------|-----|-----|------|------|-----|--------|-----|
|               |             |       |        |      |     |     |      | Qual |     | High   |     |
| PB168155BSD   | 1,4-Dioxane | 0.4   | 0.30   | ug/L | 75  | 3   |      |      | 70  | 130    | 20  |

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB168155BL

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM Case No.: Q2118

SAS No.: Q2118 SDG NO.: Q2118

Lab File ID: BN037103.D

Lab Sample ID: PB168155BL

Instrument ID: BNA\_N

Date Extracted: 05/23/2025

Matrix: (soil/water) Water

Date Analyzed: 05/28/2025

Level: (low/med) LOW

Time Analyzed: 11:17

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 |
|-----------------------|------------------|----------------|------------------|
| PB168155BS            | PB168155BS       | BN037108.D     | 05/28/2025       |
| PB168155BSD           | PB168155BSD      | BN037109.D     | 05/28/2025       |
| BP-VPB-182-GW-420-422 | Q2118-02         | BN037119.D     | 05/28/2025       |
| BP-VPB-182-GW-460-462 | Q2118-05         | BN037120.D     | 05/28/2025       |
| BP-VPB-182-GW-500-502 | Q2118-07         | BN037121.D     | 05/28/2025       |
| BP-VPB-182-GW-540-542 | Q2118-09         | BN037130.D     | 05/29/2025       |

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



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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: TETR06Lab Code: CHEMSAS No.: Q2118SDG NO.: Q2118Lab File ID: BN036998.DDFTPP Injection Date: 05/13/2025Instrument ID: BNA\_NDFTPP Injection Time: 17:02

| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 51  | 10.0 - 80.0% of mass 198           | 62.8                 |
| 68  | Less than 2.0% of mass 69          | 0.8 ( 1.4 ) 1        |
| 69  | Mass 69 relative abundance         | 55.6                 |
| 70  | Less than 2.0% of mass 69          | 0.3 ( 0.6 ) 1        |
| 127 | 10.0 - 80.0% of mass 198           | 52.7                 |
| 197 | Less than 2.0% of mass 198         | 0.0                  |
| 198 | Base Peak, 100% relative abundance | 100                  |
| 199 | 5.0 to 9.0% of mass 198            | 6.9                  |
| 275 | 10.0 - 60.0% of mass 198           | 23.8                 |
| 365 | Greater than 1% of mass 198        | 3.9                  |
| 441 | Present, but less than mass 443    | 8.7                  |
| 442 | Greater than 50% of mass 198       | 100                  |
| 443 | 15.0 - 24.0% of mass 442           | 10.4 ( 19 ) 2        |

1-Value is % mass 69

2-Value is % mass 442

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

| EPA<br>SAMPLE NO. | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE<br>ANALYZED | TIME<br>ANALYZED |
|-------------------|------------------|----------------|------------------|------------------|
| SSTDICC0.1        | SSTDICC0.1       | BN036999.D     | 05/13/2025       | 17:41            |
| SSTDICC0.2        | SSTDICC0.2       | BN037000.D     | 05/13/2025       | 18:17            |
| SSTDICCC0.4       | SSTDICCC0.4      | BN037001.D     | 05/13/2025       | 18:53            |
| SSTDICC0.8        | SSTDICC0.8       | BN037002.D     | 05/13/2025       | 19:29            |
| SSTDICC1.6        | SSTDICC1.6       | BN037003.D     | 05/13/2025       | 20:05            |
| SSTDICC3.2        | SSTDICC3.2       | BN037004.D     | 05/13/2025       | 20:41            |
| SSTDICC5.0        | SSTDICC5.0       | BN037005.D     | 05/13/2025       | 21:17            |



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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: TETR06Lab Code: CHEMSAS No.: Q2118SDG NO.: Q2118Lab File ID: BN037101.DDFTPP Injection Date: 05/28/2025Instrument ID: BNA\_NDFTPP Injection Time: 10:02

| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 51  | 10.0 - 80.0% of mass 198           | 72.6                 |
| 68  | Less than 2.0% of mass 69          | 0.0 ( 0.0 ) 1        |
| 69  | Mass 69 relative abundance         | 60.6                 |
| 70  | Less than 2.0% of mass 69          | 0.3 ( 0.5 ) 1        |
| 127 | 10.0 - 80.0% of mass 198           | 54.2                 |
| 197 | Less than 2.0% of mass 198         | 0.0                  |
| 198 | Base Peak, 100% relative abundance | 100                  |
| 199 | 5.0 to 9.0% of mass 198            | 6.8                  |
| 275 | 10.0 - 60.0% of mass 198           | 24.2                 |
| 365 | Greater than 1% of mass 198        | 4                    |
| 441 | Present, but less than mass 443    | 8.8                  |
| 442 | Greater than 50% of mass 198       | 100                  |
| 443 | 15.0 - 24.0% of mass 442           | 10 ( 17.8 ) 2        |

1-Value is % mass 69

2-Value is % mass 442

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

| EPA<br>SAMPLE NO. | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE<br>ANALYZED | TIME<br>ANALYZED |
|-------------------|------------------|----------------|------------------|------------------|
| SSTDCCC0.4        | SSTDCCC0.4       | BN037102.D     | 05/28/2025       | 10:41            |
| PB168155BL        | PB168155BL       | BN037103.D     | 05/28/2025       | 11:17            |
| PB168155BS        | PB168155BS       | BN037108.D     | 05/28/2025       | 14:17            |
| PB168155BSD       | PB168155BSD      | BN037109.D     | 05/28/2025       | 14:53            |
| SSTDCCC0.4EC      | SSTDCCC0.4       | BN037110.D     | 05/28/2025       | 15:54            |



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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: TETR06Lab Code: CHEMSAS No.: Q2118SDG NO.: Q2118Lab File ID: BN037111.DDFTPP Injection Date: 05/28/2025Instrument ID: BNA\_NDFTPP Injection Time: 16:31

| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 51  | 10.0 - 80.0% of mass 198           | 75.5                 |
| 68  | Less than 2.0% of mass 69          | 0.9 ( 1.4 ) 1        |
| 69  | Mass 69 relative abundance         | 62.5                 |
| 70  | Less than 2.0% of mass 69          | 0.4 ( 0.6 ) 1        |
| 127 | 10.0 - 80.0% of mass 198           | 56.1                 |
| 197 | Less than 2.0% of mass 198         | 0.0                  |
| 198 | Base Peak, 100% relative abundance | 100                  |
| 199 | 5.0 to 9.0% of mass 198            | 6.8                  |
| 275 | 10.0 - 60.0% of mass 198           | 25.1                 |
| 365 | Greater than 1% of mass 198        | 4.6                  |
| 441 | Present, but less than mass 443    | 9.9                  |
| 442 | Greater than 50% of mass 198       | 100                  |
| 443 | 15.0 - 24.0% of mass 442           | 11.5 (19.5) 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       | BN037112.D     | 05/28/2025       | 17:11            |
| BP-VPB-182-GW-420-422 | Q2118-02         | BN037119.D     | 05/28/2025       | 21:23            |
| BP-VPB-182-GW-460-462 | Q2118-05         | BN037120.D     | 05/28/2025       | 21:59            |
| BP-VPB-182-GW-500-502 | Q2118-07         | BN037121.D     | 05/28/2025       | 22:35            |
| SSTDCCC0.4EC          | SSTDCCC0.4       | BN037126.D     | 05/29/2025       | 01:35            |



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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: TETR06Lab Code: CHEMSAS No.: Q2118 SDG NO.: Q2118Lab File ID: BN037127.DDFTPP Injection Date: 05/29/2025Instrument ID: BNA\_NDFTPP Injection Time: 09:28

| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 51  | 10.0 - 80.0% of mass 198           | 68.7                 |
| 68  | Less than 2.0% of mass 69          | 0.3 ( 0.5 ) 1        |
| 69  | Mass 69 relative abundance         | 58                   |
| 70  | Less than 2.0% of mass 69          | 0.3 ( 0.5 ) 1        |
| 127 | 10.0 - 80.0% of mass 198           | 51.7                 |
| 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            | 6.4                  |
| 275 | 10.0 - 60.0% of mass 198           | 23.4                 |
| 365 | Greater than 1% of mass 198        | 4.2                  |
| 441 | Present, but less than mass 443    | 9.2                  |
| 442 | Greater than 50% of mass 198       | 100                  |
| 443 | 15.0 - 24.0% of mass 442           | 10.7 (18.8) 2        |

1-Value is % mass 69

2-Value is % mass 442

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

| EPA<br>SAMPLE NO.     | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE<br>ANALYZED | TIME<br>ANALYZED |
|-----------------------|------------------|----------------|------------------|------------------|
| SSTDCCC0.4            | SSTDCCC0.4       | BN037128.D     | 05/29/2025       | 10:07            |
| BP-VPB-182-GW-540-542 | Q2118-09         | BN037130.D     | 05/29/2025       | 11:42            |
| SSTDCCC0.4EC          | SSTDCCC0.4       | BN037131.D     | 05/29/2025       | 12:51            |

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2118 SAS No.: Q2118 SDG NO.: Q2118

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 05/28/2025

Lab File ID: BN037102.D Time Analyzed: 10:41

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    | 2360                | 7.611 | 6377                | 10.38  | 3563                | 14.26  |
| UPPER LIMIT    | 4720                | 8.111 | 12754               | 10.883 | 7126                | 14.756 |
| LOWER LIMIT    | 1180                | 7.111 | 3188.5              | 9.883  | 1781.5              | 13.756 |
| EPA SAMPLE NO. |                     |       |                     |        |                     |        |
| 01 PB168155BS  | 1969                | 7.61  | 4930                | 10.39  | 2429                | 14.26  |
| 02 PB168155BSD | 1893                | 7.61  | 4639                | 10.39  | 2241                | 14.26  |
| 03 PB168155BL  | 2460                | 7.61  | 5989                | 10.39  | 3067                | 14.26  |

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.: Q2118 SAS No.: Q2118 SDG NO.: Q2118

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 05/28/2025

Lab File ID: BN037102.D Time Analyzed: 10:41

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    | 6602                | 17.009 | 4312                | 21.197 | 3700                | 23.398 |
| UPPER LIMIT    | 13204               | 17.509 | 8624                | 21.697 | 7400                | 23.898 |
| LOWER LIMIT    | 3301                | 16.509 | 2156                | 20.697 | 1850                | 22.898 |
| EPA SAMPLE NO. |                     |        |                     |        |                     |        |
| 01 PB168155BS  | 4326                | 17.01  | 2746                | 21.20  | 2563                | 23.40  |
| 02 PB168155BSD | 3936                | 17.01  | 2452                | 21.20  | 2400                | 23.40  |
| 03 PB168155BL  | 5493                | 17.01  | 3554                | 21.21  | 3269                | 23.40  |

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

\* Values outside of QC limits.



8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2118 SAS No.: Q2118 SDG NO.: Q2118

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 05/28/2025

Lab File ID: BN037112.D Time Analyzed: 17:11

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              | 2022                | 7.611 | 5050                | 10.38  | 2480                | 14.26  |
| UPPER LIMIT              | 4044                | 8.111 | 10100               | 10.883 | 4960                | 14.756 |
| LOWER LIMIT              | 1011                | 7.111 | 2525                | 9.883  | 1240                | 13.756 |
| EPA SAMPLE NO.           |                     |       |                     |        |                     |        |
| 01 BP-VPB-182-GW-420-422 | 1732                | 7.61  | 4605                | 10.38  | 2564                | 14.26  |
| 02 BP-VPB-182-GW-460-462 | 1738                | 7.61  | 4544                | 10.39  | 2573                | 14.26  |
| 03 BP-VPB-182-GW-500-502 | 1952                | 7.61  | 5310                | 10.38  | 3451                | 14.26  |

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.: Q2118 SAS No.: Q2118 SDG NO.: Q2118

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 05/28/2025

Lab File ID: BN037112.D Time Analyzed: 17:11

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              | 4231                | 17.009 | 3037                | 21.198 | 3091                | 23.395 |
| UPPER LIMIT              | 8462                | 17.509 | 6074                | 21.698 | 6182                | 23.895 |
| LOWER LIMIT              | 2115.5              | 16.509 | 1518.5              | 20.698 | 1545.5              | 22.895 |
| EPA SAMPLE NO.           |                     |        |                     |        |                     |        |
| 01 BP-VPB-182-GW-420-422 | 4688                | 17.00  | 2999                | 21.20  | 2610                | 23.40  |
| 02 BP-VPB-182-GW-460-462 | 4901                | 17.00  | 3103                | 21.20  | 2655                | 23.40  |
| 03 BP-VPB-182-GW-500-502 | 6176                | 17.00  | 5116                | 21.20  | 5396                | 23.39  |

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

\* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2118 SAS No.: Q2118 SDG NO.: Q2118

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 05/29/2025

Lab File ID: BN037128.D Time Analyzed: 10:07

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              | 2387                | 7.604 | 6582                | 10.38  | 3682                | 14.26  |
| UPPER LIMIT              | 4774                | 8.104 | 13164               | 10.883 | 7364                | 14.756 |
| LOWER LIMIT              | 1193.5              | 7.104 | 3291                | 9.883  | 1841                | 13.756 |
| EPA SAMPLE NO.           |                     |       |                     |        |                     |        |
| 01 BP-VPB-182-GW-540-542 | 2218                | 7.60  | 5955                | 10.38  | 3394                | 14.26  |

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.: Q2118 SAS No.: Q2118 SDG NO.: Q2118

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 05/29/2025

Lab File ID: BN037128.D Time Analyzed: 10:07

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              | 6656                | 16.996 | 4500                | 21.198 | 3905                | 23.392 |
| UPPER LIMIT              | 13312               | 17.496 | 9000                | 21.698 | 7810                | 23.892 |
| LOWER LIMIT              | 3328                | 16.496 | 2250                | 20.698 | 1952.5              | 22.892 |
| EPA SAMPLE NO.           |                     |        |                     |        |                     |        |
| 01 BP-VPB-182-GW-540-542 | 6721                | 17.00  | 4523                | 21.20  | 3829                | 23.39  |

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

\* Values outside of QC limits.



# SAMPLE DATA

## Report of Analysis

|                    |                               |                 |                |
|--------------------|-------------------------------|-----------------|----------------|
| Client:            | Tetra Tech NUS, Inc.          | Date Collected: | 05/20/25       |
| Project:           | NWIRP Bethpage 112G08005-WE13 | Date Received:  | 05/22/25       |
| Client Sample ID:  | BP-VPB-182-GW-420-422         | SDG No.:        | Q2118          |
| Lab Sample ID:     | Q2118-02                      | Matrix:         | Water          |
| Analytical Method: | SW8270ESIM                    | % Solid:        | 0              |
| Sample Wt/Vol:     | 820      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 |
| BN037119.D        | 1         | 05/23/25 11:50 | 05/28/25 21:23 | PB168155      |

| CAS Number                | Parameter               | Conc. | Qualifier | MDL      | LOD  | LOQ / CRQL | Units    |
|---------------------------|-------------------------|-------|-----------|----------|------|------------|----------|
| <b>TARGETS</b>            |                         |       |           |          |      |            |          |
| 123-91-1                  | 1,4-Dioxane             | 0.15  | J         | 0.080    | 0.24 | 0.24       | ug/L     |
| <b>SURROGATES</b>         |                         |       |           |          |      |            |          |
| 7297-45-2                 | 2-Methylnaphthalene-d10 | 0.24  |           | 30 - 150 |      | 60%        | SPK: 0.4 |
| 93951-69-0                | Fluoranthene-d10        | 0.31  |           | 30 - 150 |      | 77%        | SPK: 0.4 |
| 4165-60-0                 | Nitrobenzene-d5         | 0.26  |           | 55 - 111 |      | 65%        | SPK: 0.4 |
| 321-60-8                  | 2-Fluorobiphenyl        | 0.25  |           | 53 - 106 |      | 63%        | SPK: 0.4 |
| 1718-51-0                 | Terphenyl-d14           | 0.55  | *         | 58 - 132 |      | 137%       | SPK: 0.4 |
| <b>INTERNAL STANDARDS</b> |                         |       |           |          |      |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4  | 1730  |           | 7.611    |      |            |          |
| 1146-65-2                 | Naphthalene-d8          | 4610  |           | 10.383   |      |            |          |
| 15067-26-2                | Acenaphthene-d10        | 2560  |           | 14.256   |      |            |          |
| 1517-22-2                 | Phenanthrene-d10        | 4690  |           | 16.996   |      |            |          |
| 1719-03-5                 | Chrysene-d12            | 3000  |           | 21.198   |      |            |          |
| 1520-96-3                 | Perylene-d12            | 2610  |           | 23.395   |      |            |          |

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\BN052825\  
 Data File : BN037119.D  
 Acq On : 28 May 2025 21:23  
 Operator : RC/JU  
 Sample : Q2118-02  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 BP-VPB-182-GW-420-422

Quant Time: May 29 01:33:16 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN051425.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 14 11:26:32 2025  
 Response via : Initial Calibration

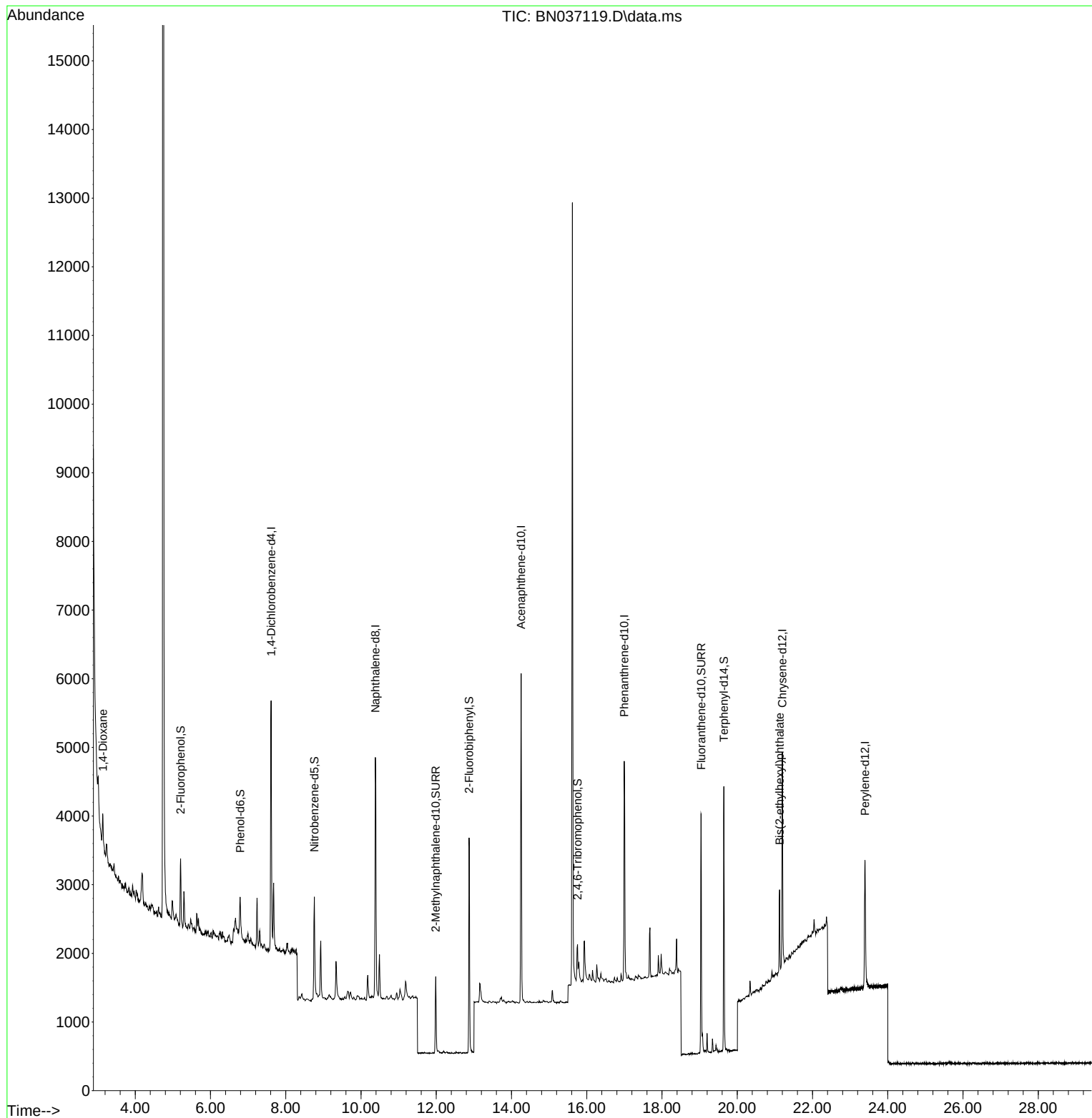
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.611  | 152  | 1732     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.383 | 136  | 4605     | 0.400 | ng    | #-0.02   |
| 13) Acenaphthene-d10          | 14.256 | 164  | 2564     | 0.400 | ng    | -0.01    |
| 19) Phenanthrene-d10          | 16.996 | 188  | 4688     | 0.400 | ng    | -0.01    |
| 29) Chrysene-d12              | 21.198 | 240  | 2999     | 0.400 | ng    | # 0.00   |
| 35) Perylene-d12              | 23.395 | 264  | 2610     | 0.400 | ng    | #-0.02   |
|                               |        |      |          |       |       |          |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.206  | 112  | 640      | 0.141 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.788  | 99   | 505      | 0.089 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.760  | 82   | 1316     | 0.262 | ng    | -0.01    |
| 11) 2-Methylnaphthalene-d10   | 11.986 | 152  | 1570     | 0.242 | ng    | -0.01    |
| 14) 2,4,6-Tribromophenol      | 15.755 | 330  | 329      | 0.292 | ng    | -0.01    |
| 15) 2-Fluorobiphenyl          | 12.873 | 172  | 2962     | 0.252 | ng    | -0.02    |
| 27) Fluoranthene-d10          | 19.040 | 212  | 3980     | 0.310 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.644 | 244  | 3520     | 0.549 | ng    | -0.01    |
|                               |        |      |          |       |       |          |
| Target Compounds              |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.141  | 88   | 266      | 0.125 | ng    | # 19     |
| 34) Bis(2-ethylhexyl)phtha... | 21.126 | 149  | 1216     | 0.175 | ng    | # 99     |
| -----                         |        |      |          |       |       |          |

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

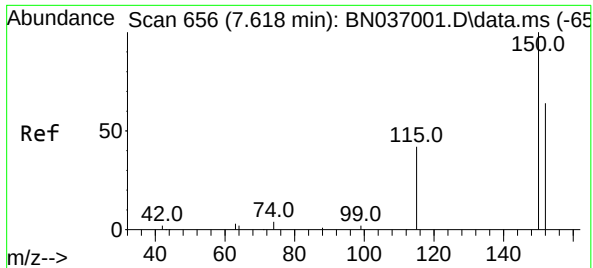
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN052825\  
Data File : BN037119.D  
Acq On : 28 May 2025 21:23  
Operator : RC/JU  
Sample : Q2118-02  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
BP-VPB-182-GW-420-422

Quant Time: May 29 01:33:16 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN051425.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed May 14 11:26:32 2025  
Response via : Initial Calibration



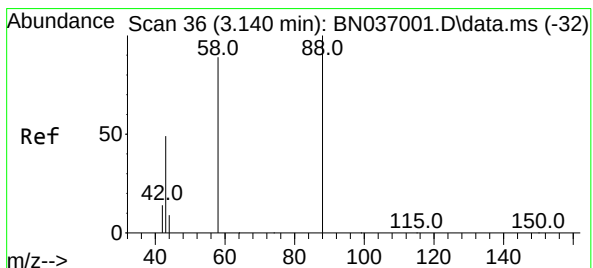
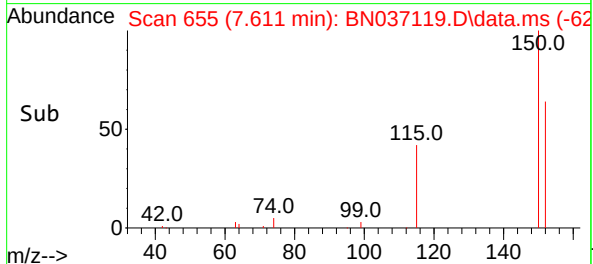
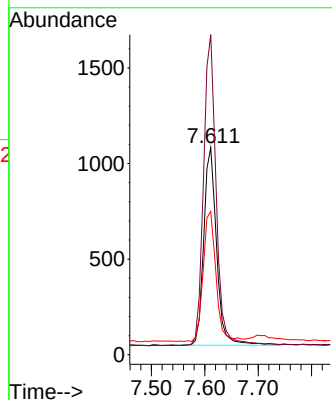
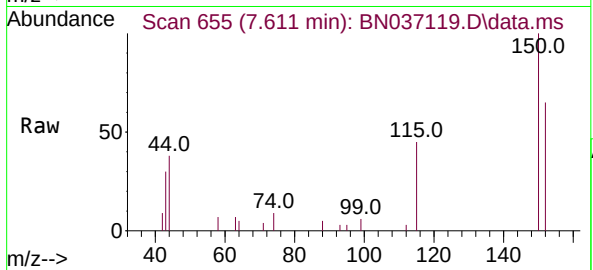




#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.611 min Scan# 61  
Delta R.T. -0.007 min  
Lab File: BN037119.D  
Acq: 28 May 2025 21:23

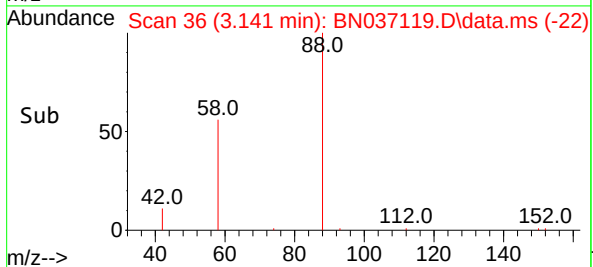
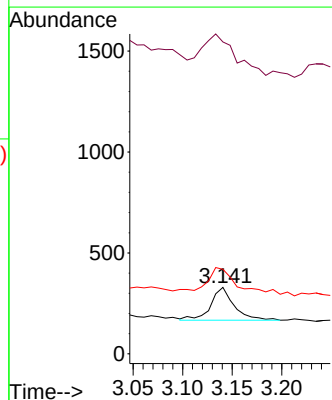
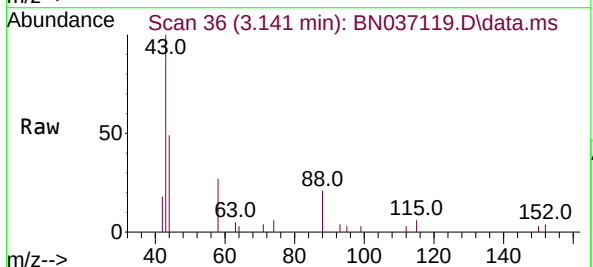
Instrument :  
BNA\_N  
ClientSampleId :  
BP-VPB-182-GW-420-422

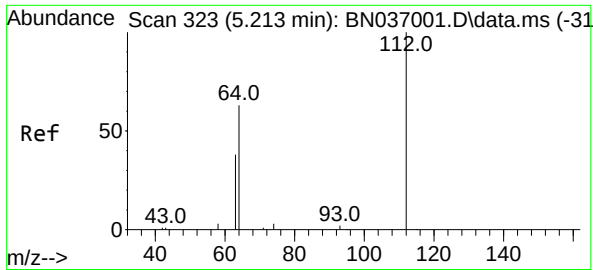
Tgt Ion:152 Resp: 1732  
Ion Ratio Lower Upper  
152 100  
150 154.6 123.9 185.9  
115 69.2 55.8 83.8



#2  
1,4-Dioxane  
Concen: 0.125 ng  
RT: 3.141 min Scan# 36  
Delta R.T. 0.001 min  
Lab File: BN037119.D  
Acq: 28 May 2025 21:23

Tgt Ion: 88 Resp: 266  
Ion Ratio Lower Upper  
88 100  
43 183.8 37.4 56.0#  
58 97.7 68.8 103.2

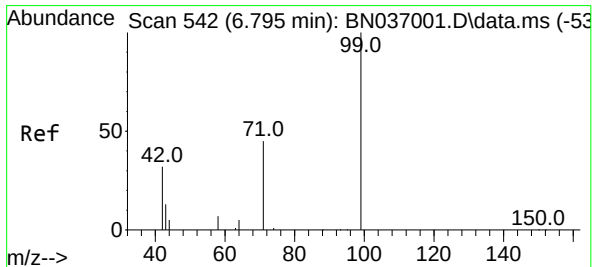
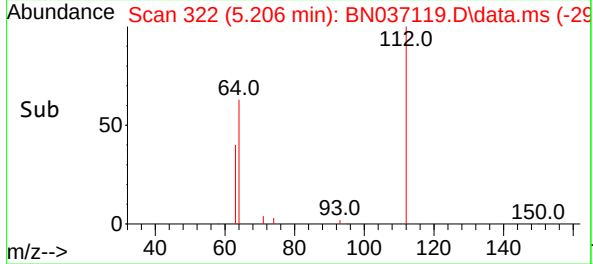
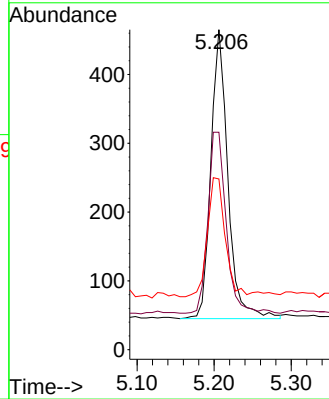
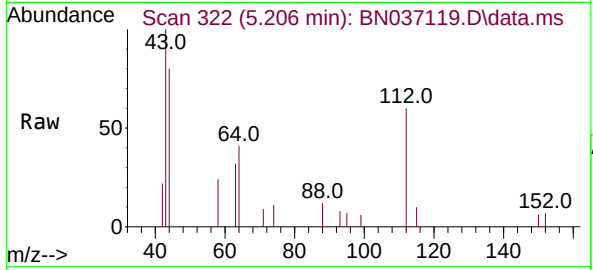




#4  
2-Fluorophenol  
Concen: 0.141 ng  
RT: 5.206 min Scan# 311  
Delta R.T. -0.007 min  
Lab File: BN037119.D  
Acq: 28 May 2025 21:23

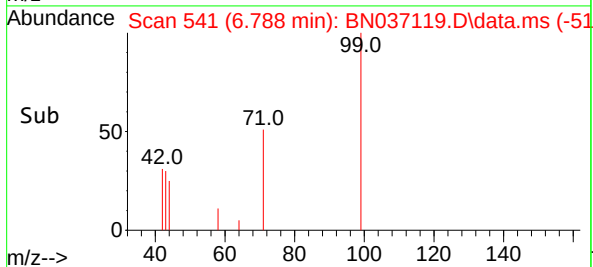
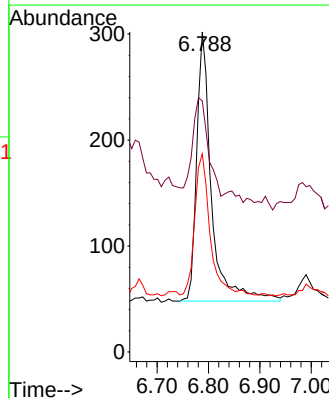
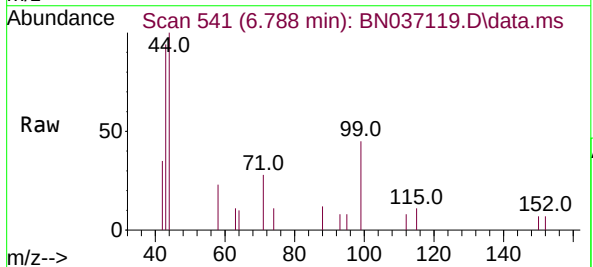
Instrument :  
BNA\_N  
ClientSampleId :  
BP-VPB-182-GW-420-422

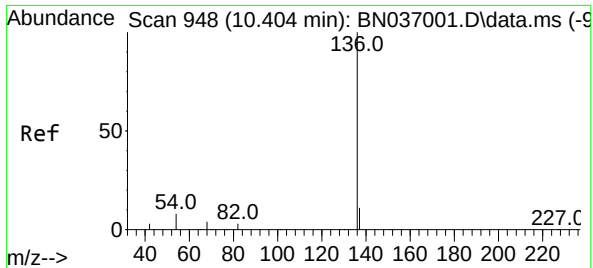
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 67.0  | 55.7  | 83.5  |
| 63      | 43.1  | 34.6  | 51.8  |



#5  
Phenol-d6  
Concen: 0.089 ng  
RT: 6.788 min Scan# 541  
Delta R.T. -0.007 min  
Lab File: BN037119.D  
Acq: 28 May 2025 21:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 99      | 100   |       |       |
| 42      | 36.4  | 29.3  | 43.9  |
| 71      | 53.7  | 35.7  | 53.5  |

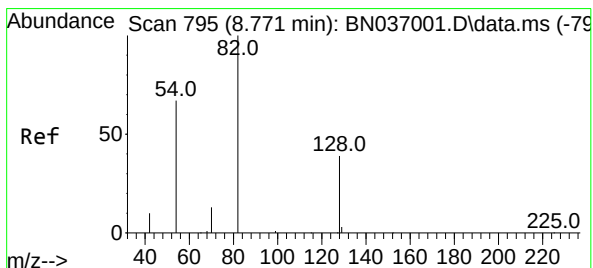
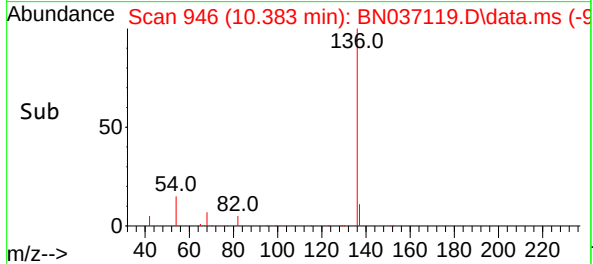
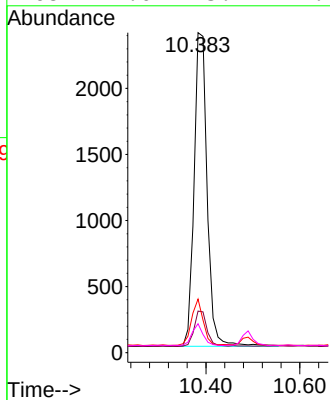
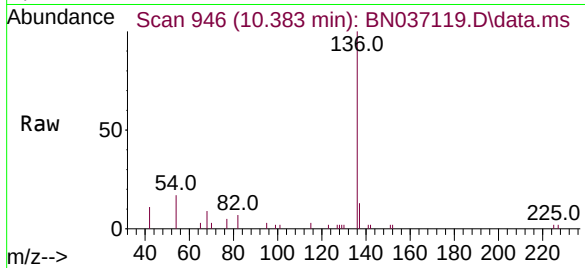




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.383 min Scan# 948  
Delta R.T. -0.021 min  
Lab File: BN037119.D  
Acq: 28 May 2025 21:23

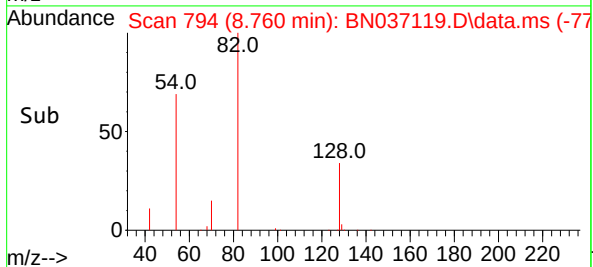
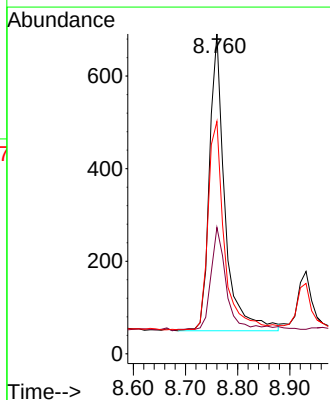
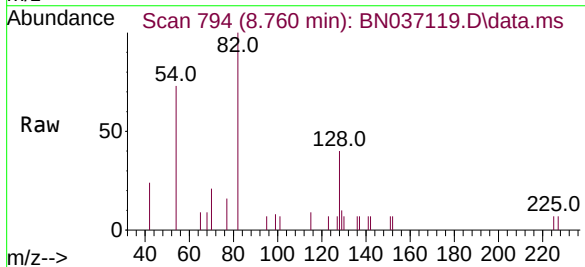
Instrument :  
BNA\_N  
ClientSampleId :  
BP-VPB-182-GW-420-422

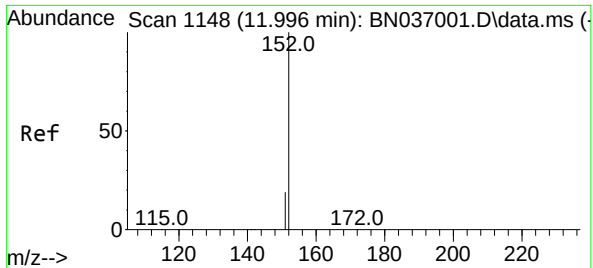
| Tgt Ion | 136   | Resp  | 4605  |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 136     | 100   |       |       |
| 137     | 13.0  | 10.4  | 15.6  |
| 54      | 16.8  | 8.5   | 12.7# |
| 68      | 9.0   | 5.1   | 7.7#  |



#8  
Nitrobenzene-d5  
Concen: 0.262 ng  
RT: 8.760 min Scan# 794  
Delta R.T. -0.011 min  
Lab File: BN037119.D  
Acq: 28 May 2025 21:23

| Tgt Ion | 82    | Resp  | 1316  |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 82      | 100   |       |       |
| 128     | 39.5  | 34.0  | 51.0  |
| 54      | 72.6  | 55.0  | 82.4  |

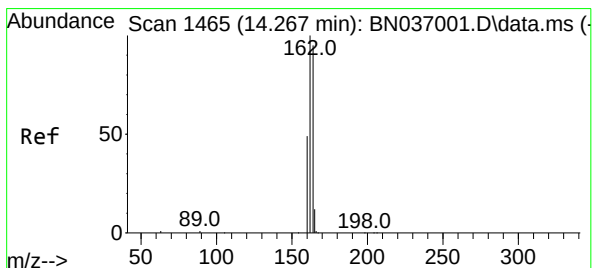
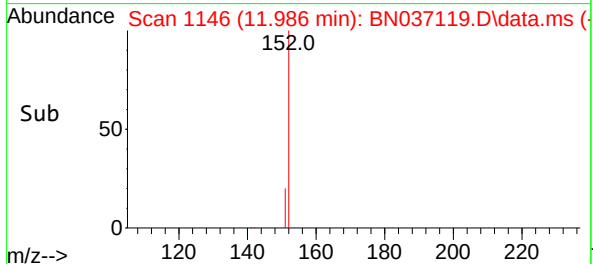
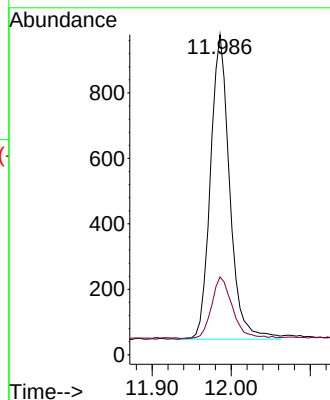
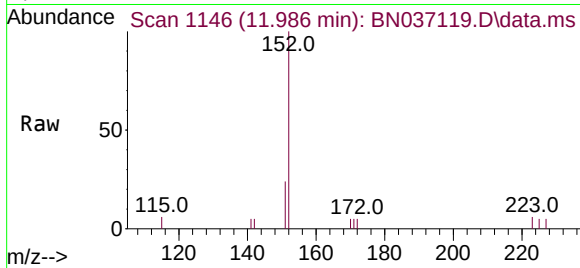




#11  
2-Methylnaphthalene-d10  
Concen: 0.242 ng  
RT: 11.986 min Scan# 1146  
Delta R.T. -0.010 min  
Lab File: BN037119.D  
Acq: 28 May 2025 21:23

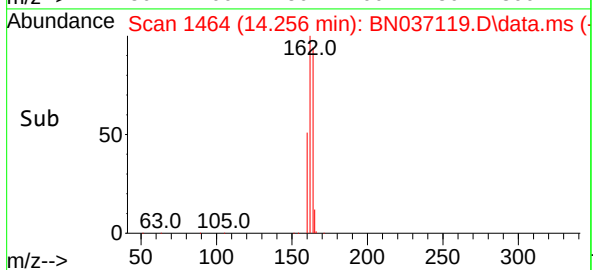
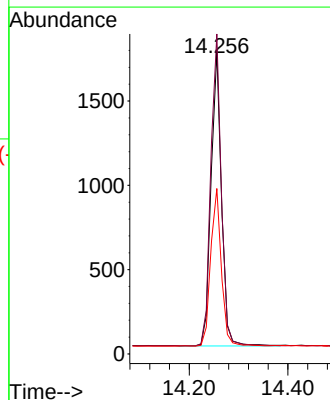
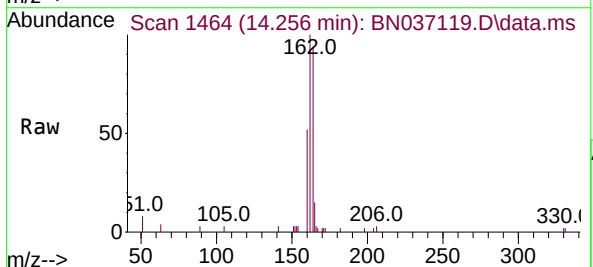
Instrument :  
BNA\_N  
ClientSampleId :  
BP-VPB-182-GW-420-422

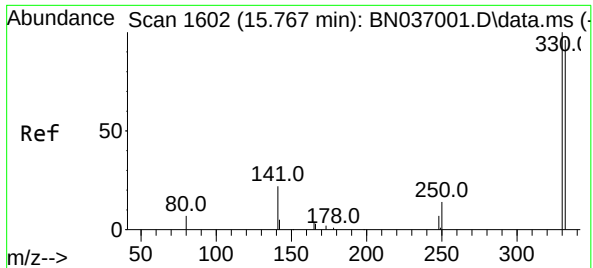
Tgt Ion:152 Resp: 1570  
Ion Ratio Lower Upper  
152 100  
151 22.0 17.5 26.3



#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.256 min Scan# 1464  
Delta R.T. -0.011 min  
Lab File: BN037119.D  
Acq: 28 May 2025 21:23

Tgt Ion:164 Resp: 2564  
Ion Ratio Lower Upper  
164 100  
162 106.0 84.2 126.4  
160 54.8 42.6 63.8





#14

2,4,6-Tribromophenol

Concen: 0.292 ng

RT: 15.755 min Scan# 1

Delta R.T. -0.012 min

Lab File: BN037119.D

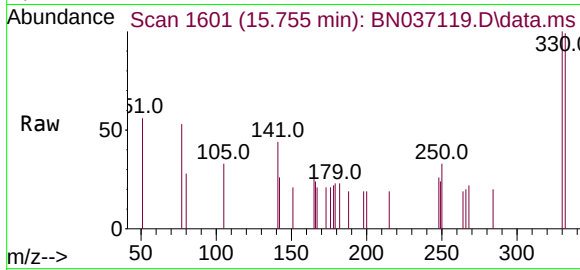
Acq: 28 May 2025 21:23

Instrument :

BNA\_N

ClientSampleId :

BP-VPB-182-GW-420-422



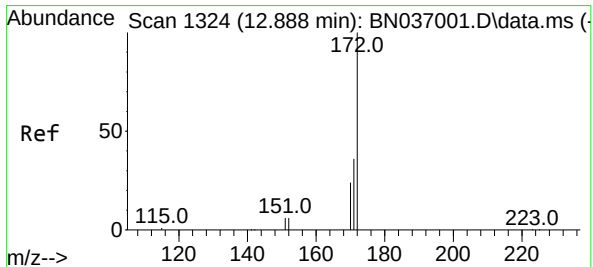
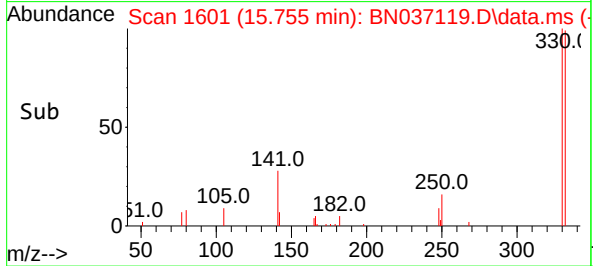
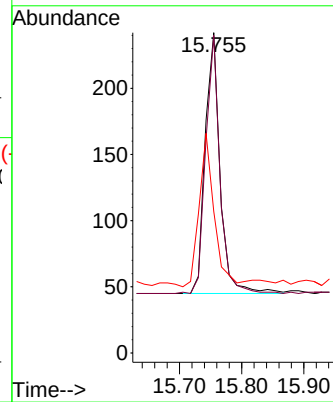
Tgt Ion:330 Resp: 329

Ion Ratio Lower Upper

330 100

332 94.5 73.8 110.8

141 59.6 43.9 65.9



#15

2-Fluorobiphenyl

Concen: 0.252 ng

RT: 12.873 min Scan# 1321

Delta R.T. -0.015 min

Lab File: BN037119.D

Acq: 28 May 2025 21:23

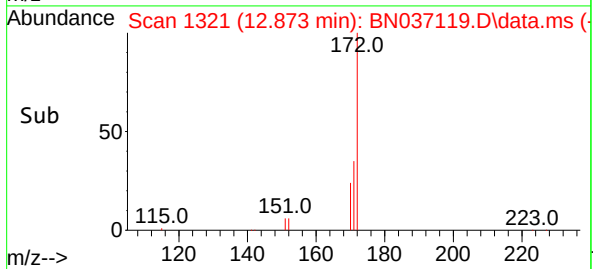
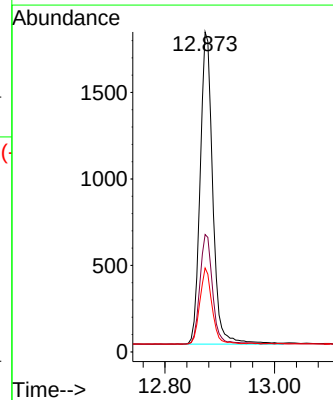
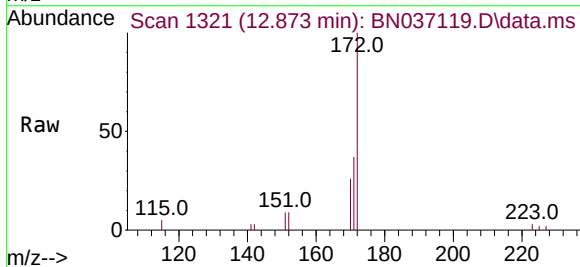
Tgt Ion:172 Resp: 2962

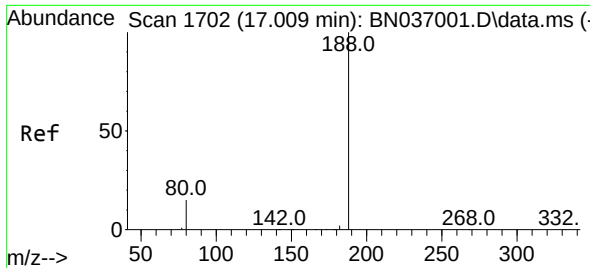
Ion Ratio Lower Upper

172 100

171 36.7 29.2 43.8

170 26.2 20.5 30.7

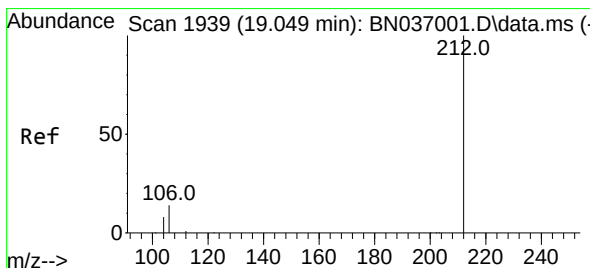
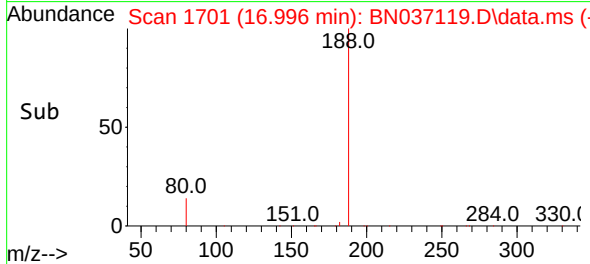
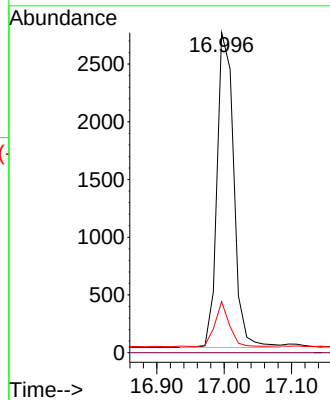
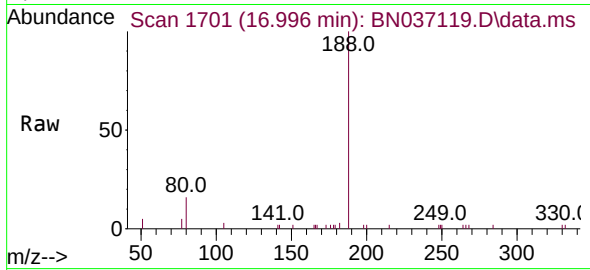




#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 16.996 min Scan# 1701  
Delta R.T. -0.012 min  
Lab File: BN037119.D  
Acq: 28 May 2025 21:23

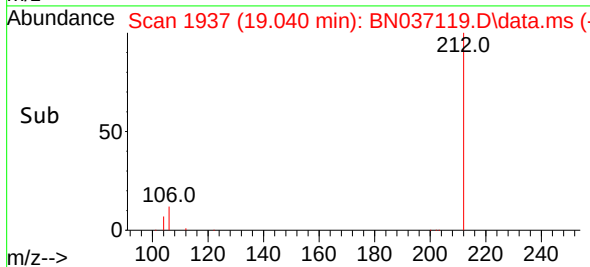
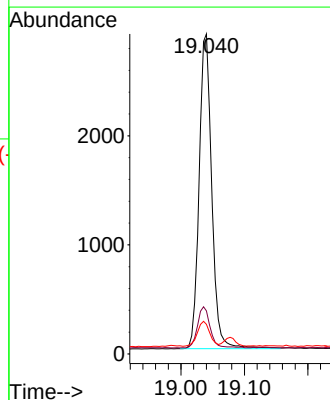
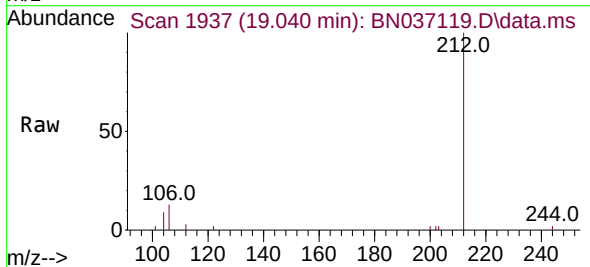
Instrument :  
BNA\_N  
ClientSampleId :  
BP-VPB-182-GW-420-422

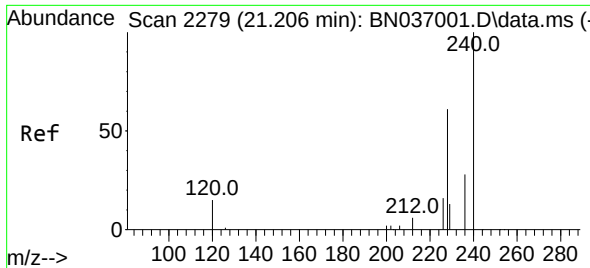
Tgt Ion:188 Resp: 4688  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 16.0 13.4 20.0



#27  
Fluoranthene-d10  
Concen: 0.310 ng  
RT: 19.040 min Scan# 1937  
Delta R.T. -0.009 min  
Lab File: BN037119.D  
Acq: 28 May 2025 21:23

Tgt Ion:212 Resp: 3980  
Ion Ratio Lower Upper  
212 100  
106 13.0 11.3 16.9  
104 7.7 6.7 10.1

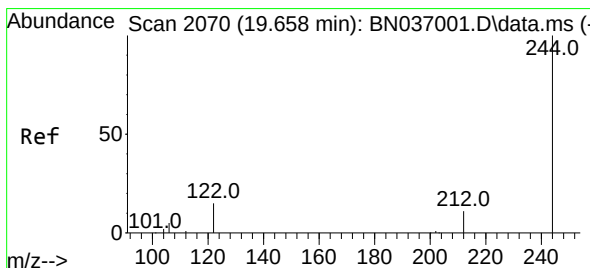
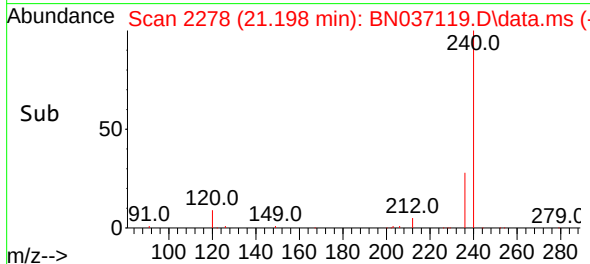
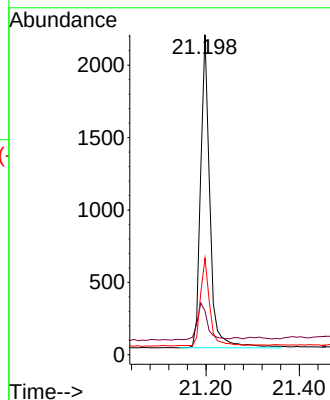
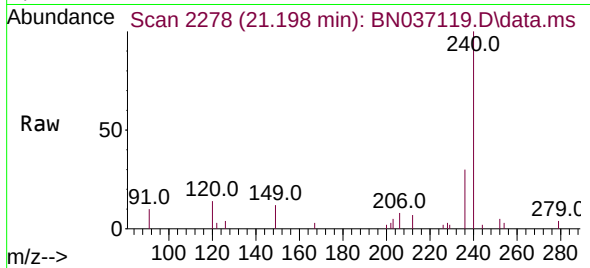




#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.198 min Scan# 21  
Delta R.T. -0.009 min  
Lab File: BN037119.D  
Acq: 28 May 2025 21:23

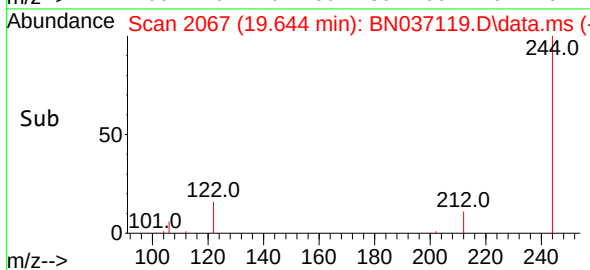
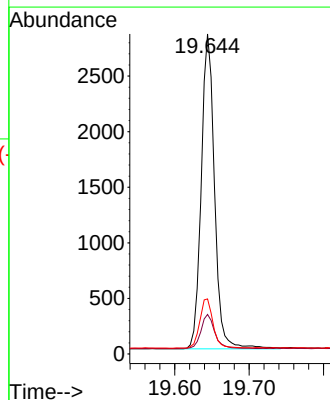
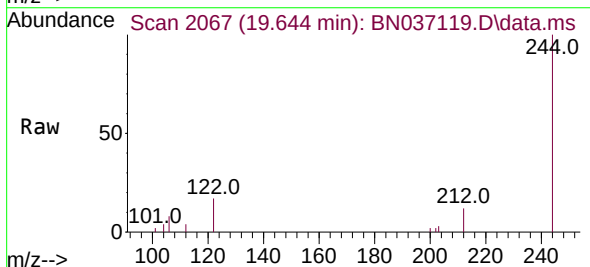
Instrument :  
BNA\_N  
ClientSampleId :  
BP-VPB-182-GW-420-422

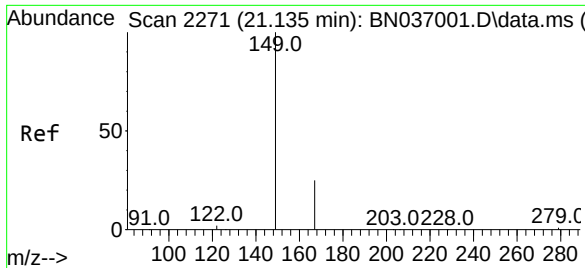
Tgt Ion:240 Resp: 2999  
Ion Ratio Lower Upper  
240 100  
120 13.7 15.1 22.7#  
236 30.2 24.0 36.0



#31  
Terphenyl-d14  
Concen: 0.549 ng  
RT: 19.644 min Scan# 2067  
Delta R.T. -0.014 min  
Lab File: BN037119.D  
Acq: 28 May 2025 21:23

Tgt Ion:244 Resp: 3520  
Ion Ratio Lower Upper  
244 100  
212 12.4 9.7 14.5  
122 17.2 13.4 20.0

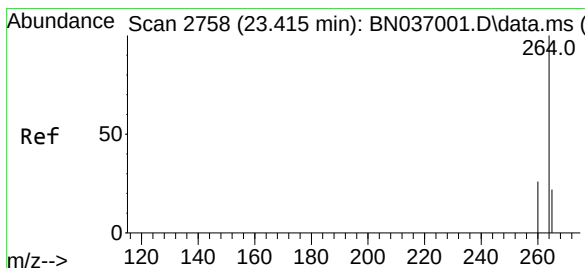
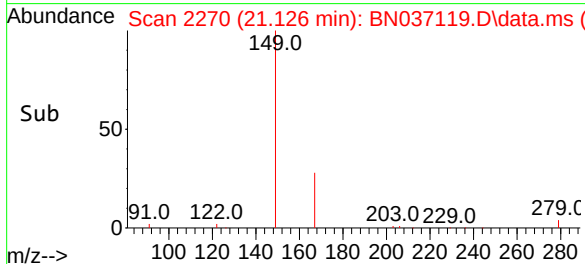
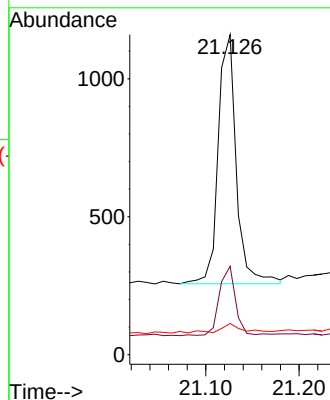
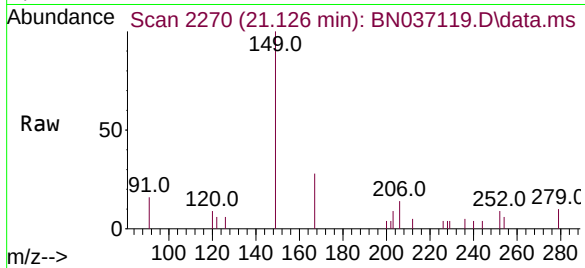




#34  
Bis(2-ethylhexyl)phthalate  
Concen: 0.175 ng  
RT: 21.126 min Scan# 2116  
Delta R.T. -0.009 min  
Lab File: BN037119.D  
Acq: 28 May 2025 21:23

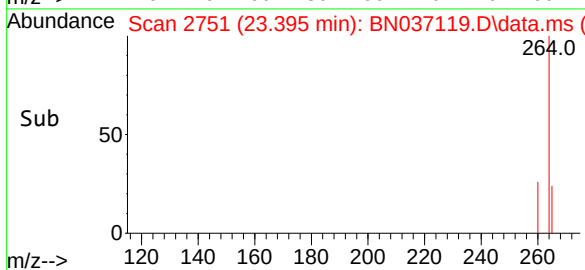
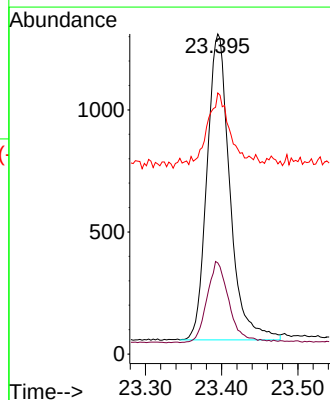
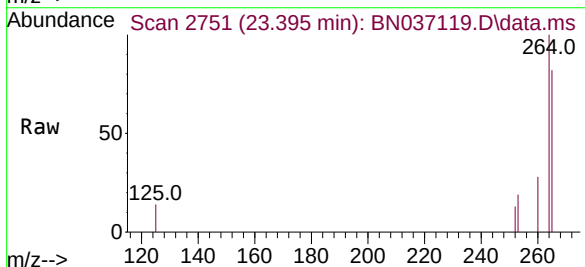
Instrument :  
BNA\_N  
ClientSampleId :  
BP-VPB-182-GW-420-422

Tgt Ion:149 Resp: 1216  
Ion Ratio Lower Upper  
149 100  
167 25.2 20.6 30.8  
279 4.7 2.6 3.8#



#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.395 min Scan# 2751  
Delta R.T. -0.020 min  
Lab File: BN037119.D  
Acq: 28 May 2025 21:23

Tgt Ion:264 Resp: 2610  
Ion Ratio Lower Upper  
264 100  
260 28.5 21.9 32.9  
265 81.5 51.6 77.4#





## Report of Analysis

|                    |                               |                 |                |
|--------------------|-------------------------------|-----------------|----------------|
| Client:            | Tetra Tech NUS, Inc.          | Date Collected: | 05/21/25       |
| Project:           | NWIRP Bethpage 112G08005-WE13 | Date Received:  | 05/22/25       |
| Client Sample ID:  | BP-VPB-182-GW-460-462         | SDG No.:        | Q2118          |
| Lab Sample ID:     | Q2118-05                      | Matrix:         | Water          |
| Analytical Method: | SW8270ESIM                    | % Solid:        | 0              |
| Sample Wt/Vol:     | 840      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 |
| BN037120.D        | 1         | 05/23/25 11:50 | 05/28/25 21:59 | PB168155      |

| CAS Number                | Parameter               | Conc. | Qualifier | MDL      | LOD  | LOQ / CRQL | Units    |
|---------------------------|-------------------------|-------|-----------|----------|------|------------|----------|
| <b>TARGETS</b>            |                         |       |           |          |      |            |          |
| 123-91-1                  | 1,4-Dioxane             | 0.20  | J         | 0.080    | 0.24 | 0.24       | ug/L     |
| <b>SURROGATES</b>         |                         |       |           |          |      |            |          |
| 7297-45-2                 | 2-Methylnaphthalene-d10 | 0.27  |           | 30 - 150 |      | 67%        | SPK: 0.4 |
| 93951-69-0                | Fluoranthene-d10        | 0.33  |           | 30 - 150 |      | 81%        | SPK: 0.4 |
| 4165-60-0                 | Nitrobenzene-d5         | 0.28  |           | 55 - 111 |      | 70%        | SPK: 0.4 |
| 321-60-8                  | 2-Fluorobiphenyl        | 0.29  |           | 53 - 106 |      | 73%        | SPK: 0.4 |
| 1718-51-0                 | Terphenyl-d14           | 0.55  | *         | 58 - 132 |      | 137%       | SPK: 0.4 |
| <b>INTERNAL STANDARDS</b> |                         |       |           |          |      |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4  | 1740  |           | 7.611    |      |            |          |
| 1146-65-2                 | Naphthalene-d8          | 4540  |           | 10.394   |      |            |          |
| 15067-26-2                | Acenaphthene-d10        | 2570  |           | 14.256   |      |            |          |
| 1517-22-2                 | Phenanthrene-d10        | 4900  |           | 16.996   |      |            |          |
| 1719-03-5                 | Chrysene-d12            | 3100  |           | 21.198   |      |            |          |
| 1520-96-3                 | Perylene-d12            | 2660  |           | 23.395   |      |            |          |

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\BN052825\  
 Data File : BN037120.D  
 Acq On : 28 May 2025 21:59  
 Operator : RC/JU  
 Sample : Q2118-05  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 BP-VPB-182-GW-460-462

Quant Time: May 29 01:33:29 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN051425.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 14 11:26:32 2025  
 Response via : Initial Calibration

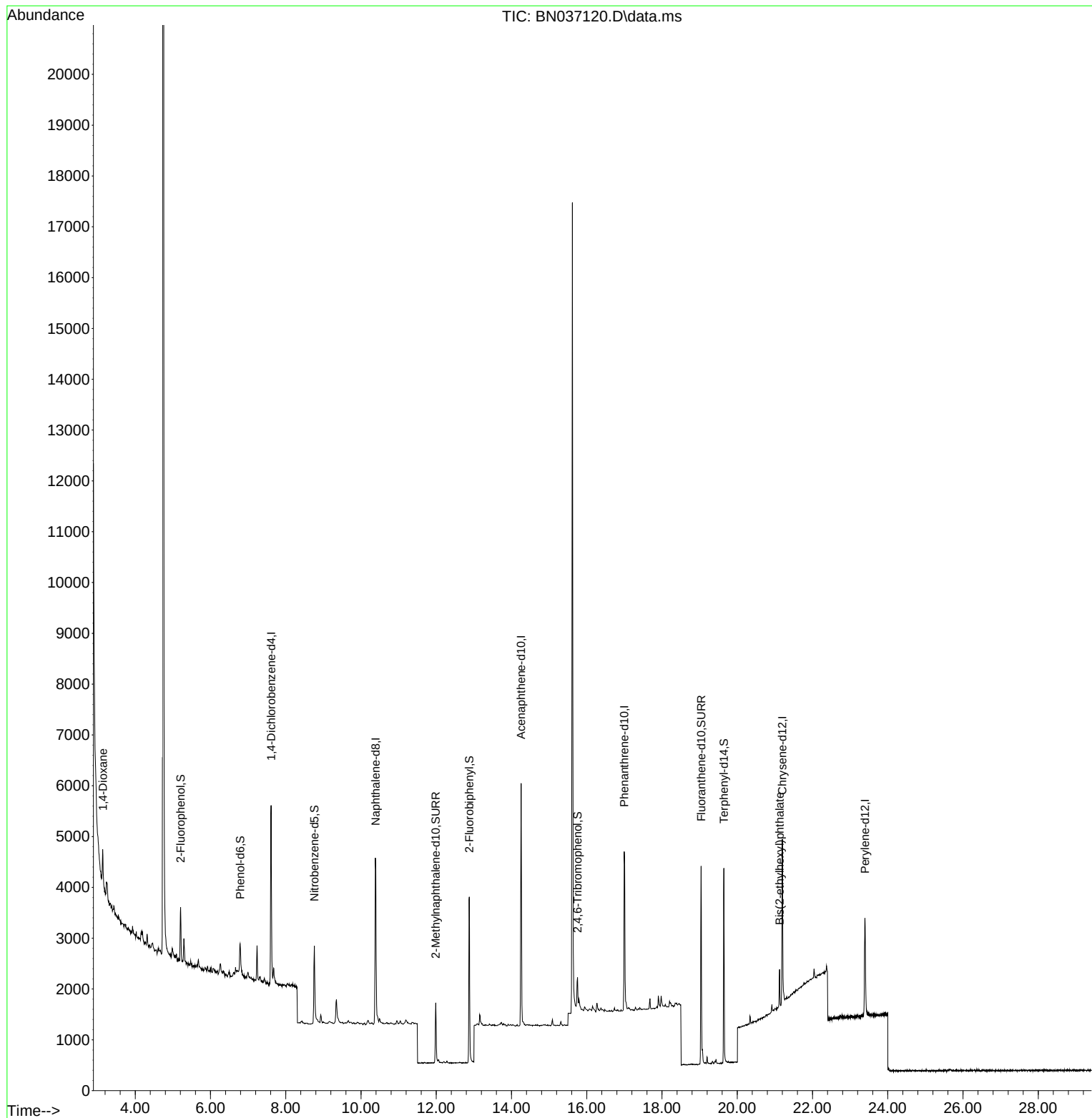
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.611  | 152  | 1738     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.394 | 136  | 4544     | 0.400 | ng    | -0.01    |
| 13) Acenaphthene-d10          | 14.256 | 164  | 2573     | 0.400 | ng    | -0.01    |
| 19) Phenanthrene-d10          | 16.996 | 188  | 4901     | 0.400 | ng    | -0.01    |
| 29) Chrysene-d12              | 21.198 | 240  | 3103     | 0.400 | ng    | # 0.00   |
| 35) Perylene-d12              | 23.395 | 264  | 2655     | 0.400 | ng    | -0.02    |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.206  | 112  | 726      | 0.159 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.788  | 99   | 585      | 0.103 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.760  | 82   | 1383     | 0.280 | ng    | -0.01    |
| 11) 2-Methylnaphthalene-d10   | 11.986 | 152  | 1711     | 0.267 | ng    | -0.01    |
| 14) 2,4,6-Tribromophenol      | 15.755 | 330  | 391      | 0.346 | ng    | -0.01    |
| 15) 2-Fluorobiphenyl          | 12.878 | 172  | 3442     | 0.292 | ng    | -0.01    |
| 27) Fluoranthene-d10          | 19.040 | 212  | 4381     | 0.326 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.644 | 244  | 3629     | 0.547 | ng    | -0.01    |
| Target Compounds              |        |      |          |       |       |          |
| 2) 1,4-Dioxane                | 3.141  | 88   | 361      | 0.169 | ng    | # 14     |
| 34) Bis(2-ethylhexyl)phtha... | 21.126 | 149  | 717      | 0.100 | ng    | # 97     |
| -----                         |        |      |          |       |       |          |

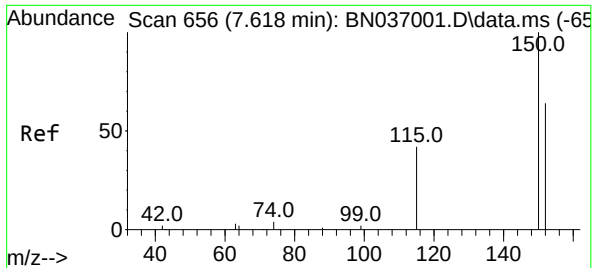
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN052825\  
Data File : BN037120.D  
Acq On : 28 May 2025 21:59  
Operator : RC/JU  
Sample : Q2118-05  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
BP-VPB-182-GW-460-462

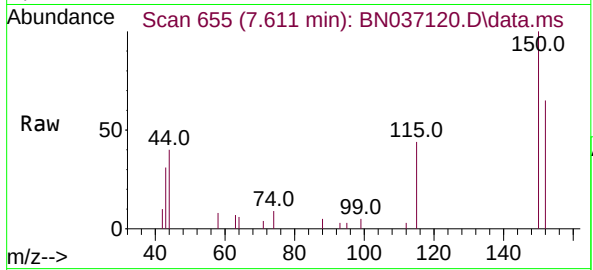
Quant Time: May 29 01:33:29 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN051425.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed May 14 11:26:32 2025  
Response via : Initial Calibration





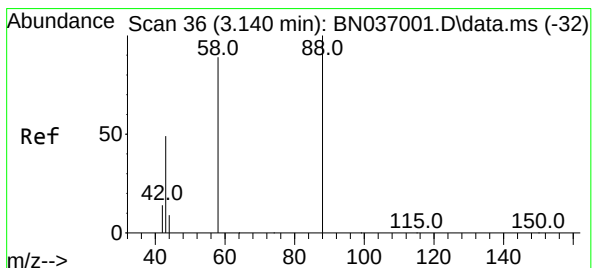
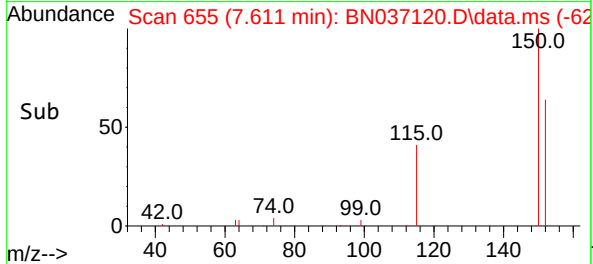
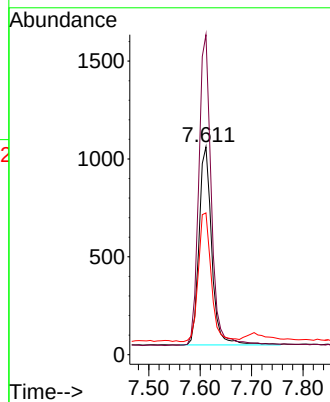
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 0.400 ng  
 RT: 7.611 min Scan# 61  
 Delta R.T. -0.007 min  
 Lab File: BN037120.D  
 Acq: 28 May 2025 21:59

Instrument :  
 BNA\_N  
 ClientSampleId :  
 BP-VPB-182-GW-460-462



Tgt Ion:152 Resp: 1738

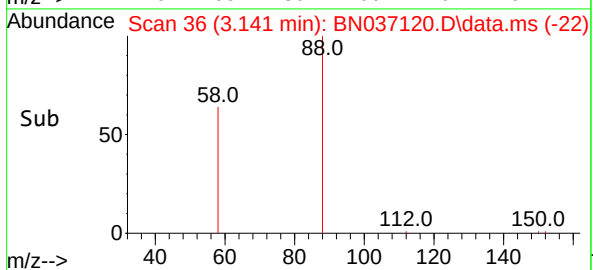
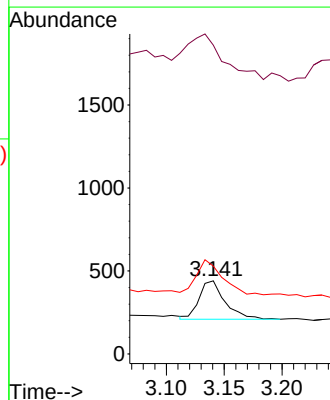
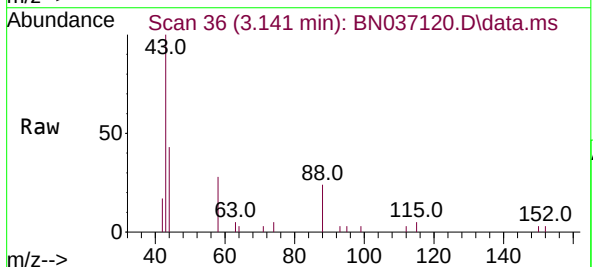
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 152 | 100   |       |       |
| 150 | 154.0 | 123.9 | 185.9 |
| 115 | 68.2  | 55.8  | 83.8  |

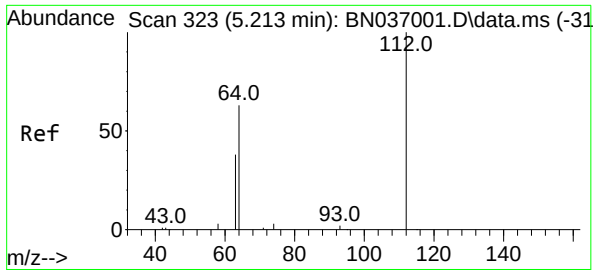


#2  
 1,4-Dioxane  
 Concen: 0.169 ng  
 RT: 3.141 min Scan# 36  
 Delta R.T. 0.001 min  
 Lab File: BN037120.D  
 Acq: 28 May 2025 21:59

Tgt Ion: 88 Resp: 361

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 88  | 100   |       |       |
| 43  | 197.2 | 37.4  | 56.0# |
| 58  | 95.8  | 68.8  | 103.2 |

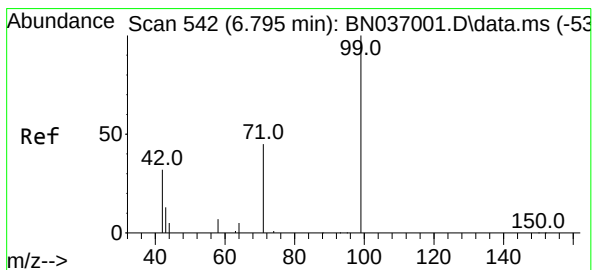
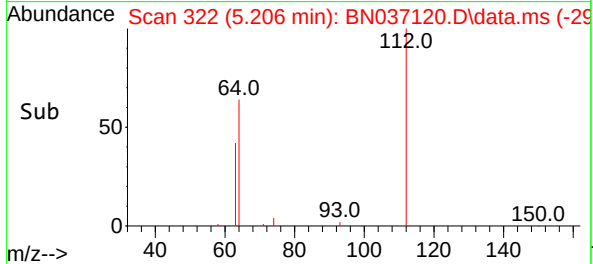
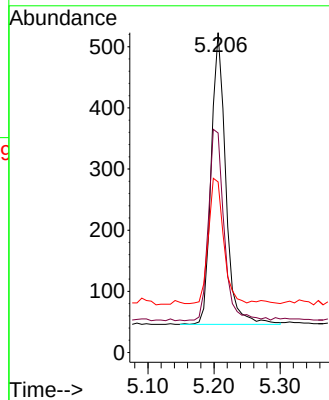
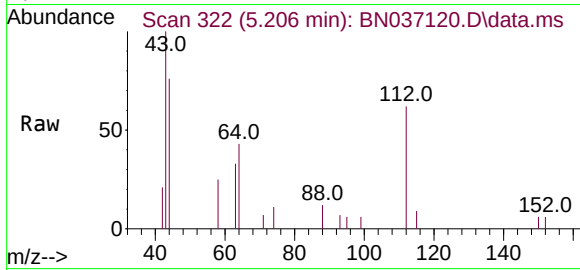




#4  
2-Fluorophenol  
Concen: 0.159 ng  
RT: 5.206 min Scan# 31  
Delta R.T. -0.007 min  
Lab File: BN037120.D  
Acq: 28 May 2025 21:59

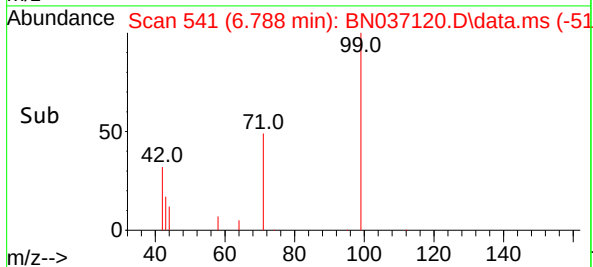
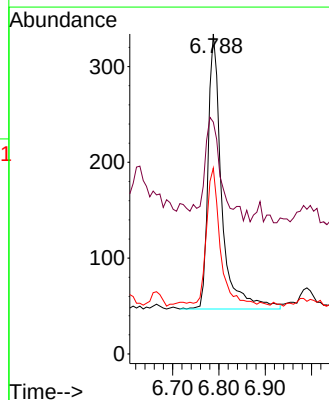
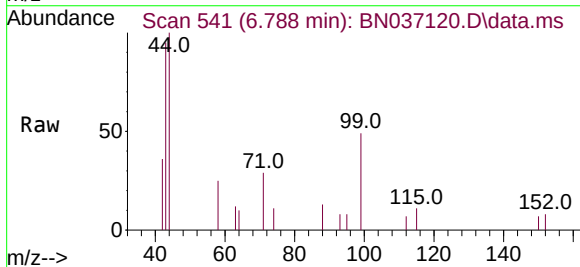
Instrument :  
BNA\_N  
ClientSampleId :  
BP-VPB-182-GW-460-462

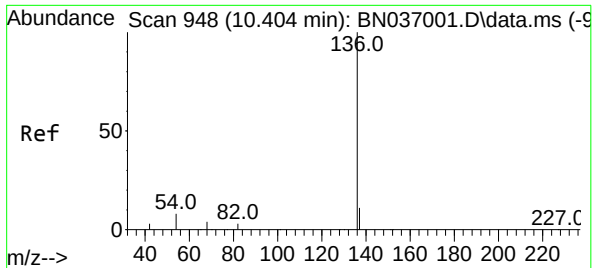
Tgt Ion:112 Resp: 726  
Ion Ratio Lower Upper  
112 100  
64 70.1 55.7 83.5  
63 44.9 34.6 51.8



#5  
Phenol-d6  
Concen: 0.103 ng  
RT: 6.788 min Scan# 541  
Delta R.T. -0.007 min  
Lab File: BN037120.D  
Acq: 28 May 2025 21:59

Tgt Ion: 99 Resp: 585  
Ion Ratio Lower Upper  
99 100  
42 47.7 29.3 43.9#  
71 48.4 35.7 53.5

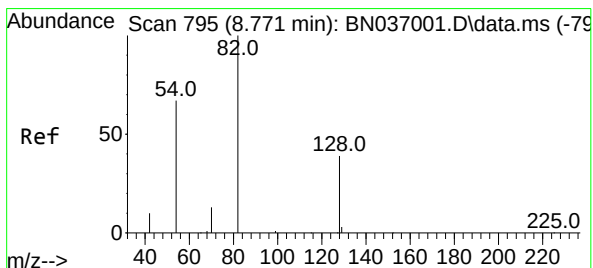
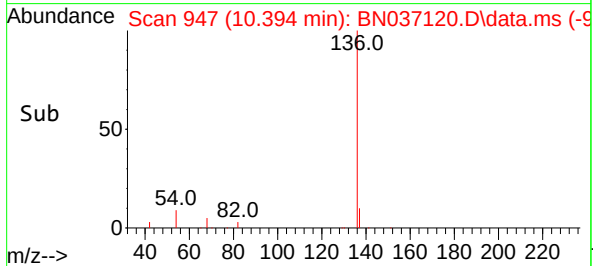
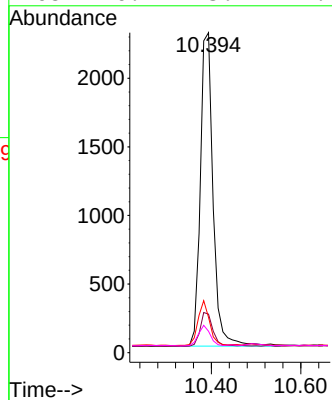
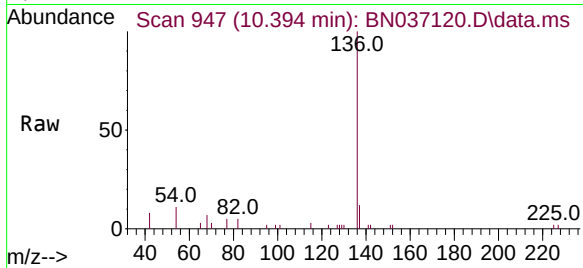




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.394 min Scan# 94  
Delta R.T. -0.011 min  
Lab File: BN037120.D  
Acq: 28 May 2025 21:59

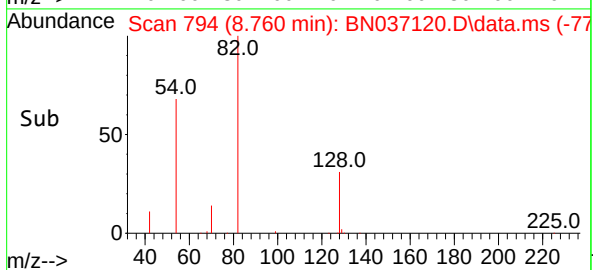
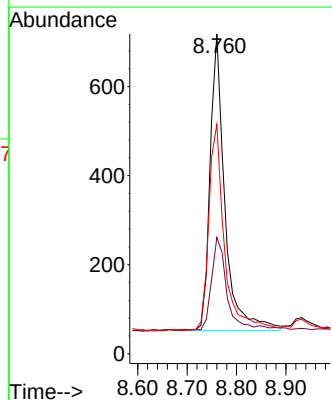
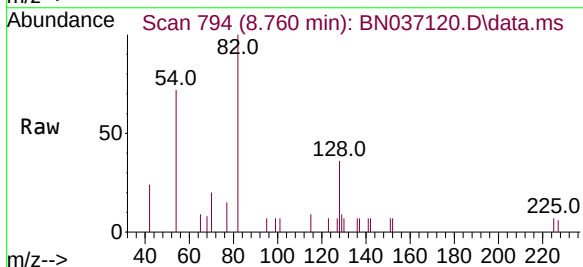
Instrument :  
BNA\_N  
ClientSampleId :  
BP-VPB-182-GW-460-462

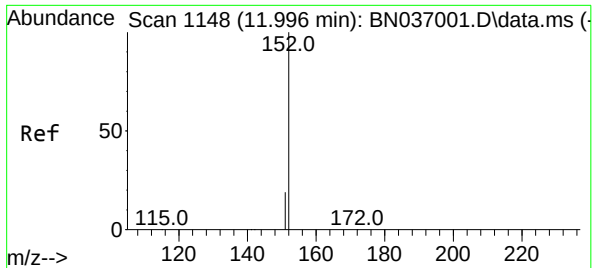
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 4544  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 12.0  | 10.4  | 15.6  |
| 54       | 11.1  | 8.5   | 12.7  |
| 68       | 6.7   | 5.1   | 7.7   |



#8  
Nitrobenzene-d5  
Concen: 0.280 ng  
RT: 8.760 min Scan# 794  
Delta R.T. -0.011 min  
Lab File: BN037120.D  
Acq: 28 May 2025 21:59

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 1383  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 36.4  | 34.0  | 51.0  |
| 54       | 71.7  | 55.0  | 82.4  |

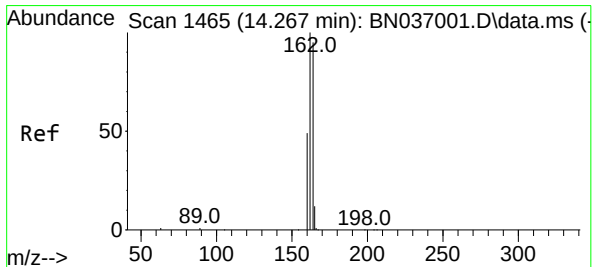
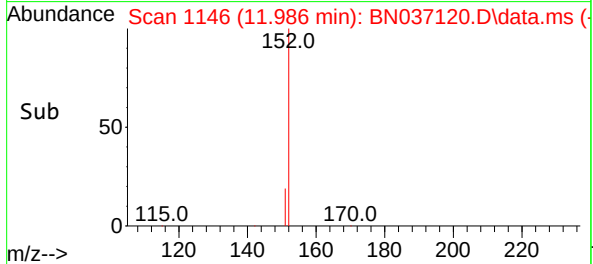
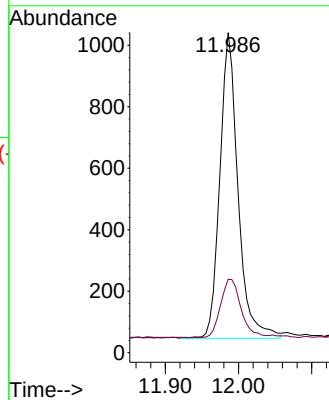
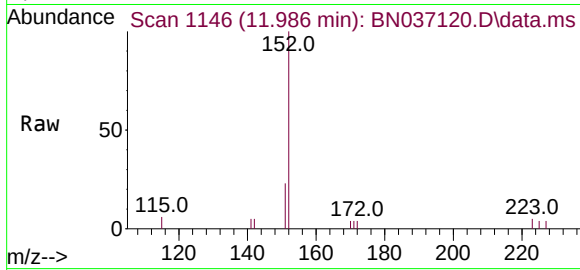




#11  
2-Methylnaphthalene-d10  
Concen: 0.267 ng  
RT: 11.986 min Scan# 1146  
Delta R.T. -0.010 min  
Lab File: BN037120.D  
Acq: 28 May 2025 21:59

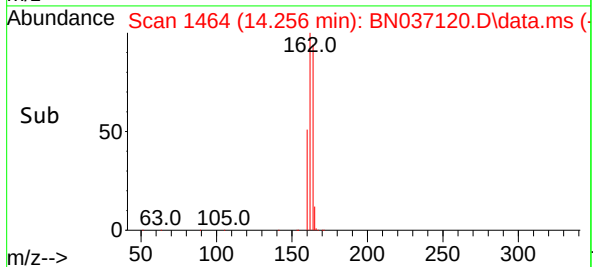
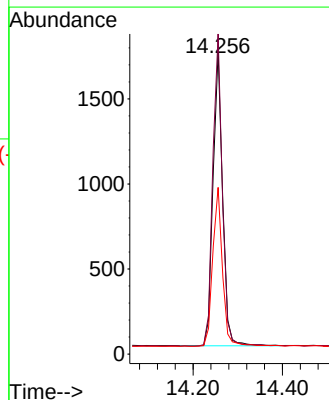
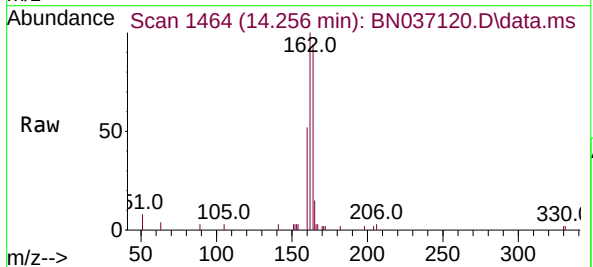
Instrument :  
BNA\_N  
ClientSampleId :  
BP-VPB-182-GW-460-462

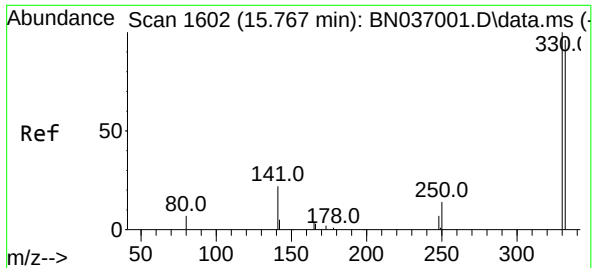
Tgt Ion:152 Resp: 1711  
Ion Ratio Lower Upper  
152 100  
151 21.7 17.5 26.3



#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.256 min Scan# 1464  
Delta R.T. -0.011 min  
Lab File: BN037120.D  
Acq: 28 May 2025 21:59

Tgt Ion:164 Resp: 2573  
Ion Ratio Lower Upper  
164 100  
162 105.9 84.2 126.4  
160 55.1 42.6 63.8





#14

2,4,6-Tribromophenol

Concen: 0.346 ng

RT: 15.755 min Scan# 1

Delta R.T. -0.012 min

Lab File: BN037120.D

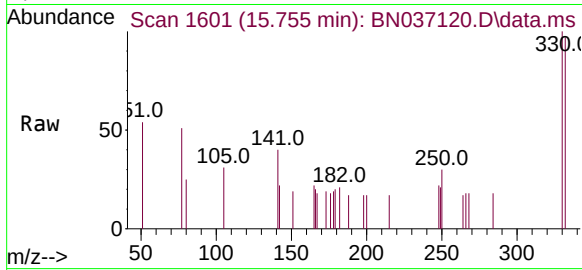
Acq: 28 May 2025 21:59

Instrument :

BNA\_N

ClientSampleId :

BP-VPB-182-GW-460-462



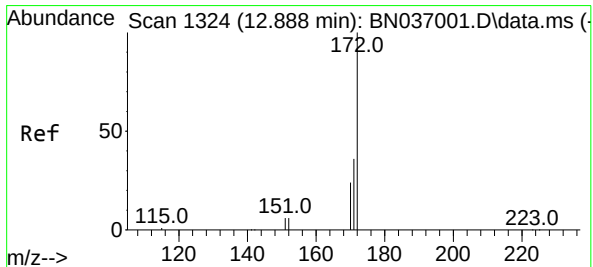
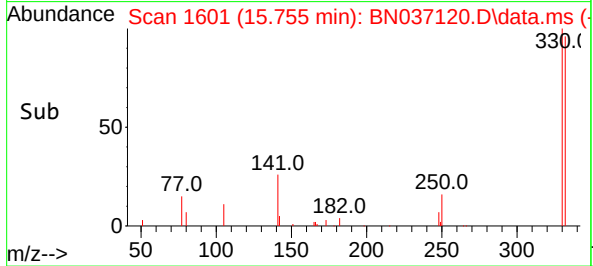
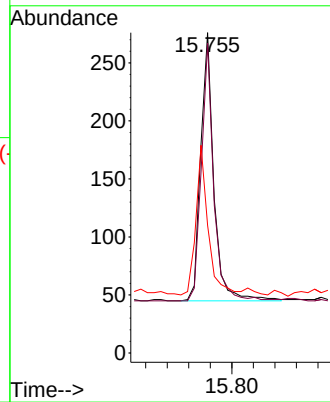
Tgt Ion:330 Resp: 391

Ion Ratio Lower Upper

330 100

332 90.3 73.8 110.8

141 52.9 43.9 65.9



#15

2-Fluorobiphenyl

Concen: 0.292 ng

RT: 12.878 min Scan# 1322

Delta R.T. -0.010 min

Lab File: BN037120.D

Acq: 28 May 2025 21:59

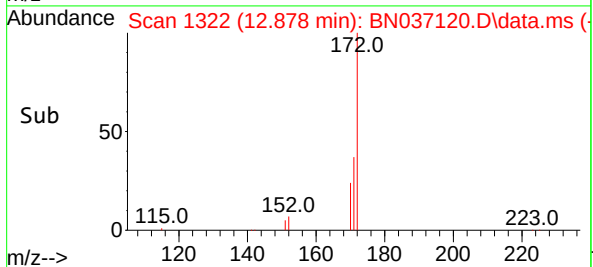
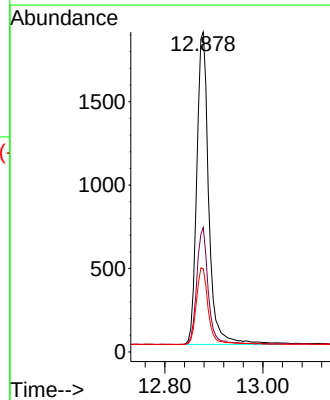
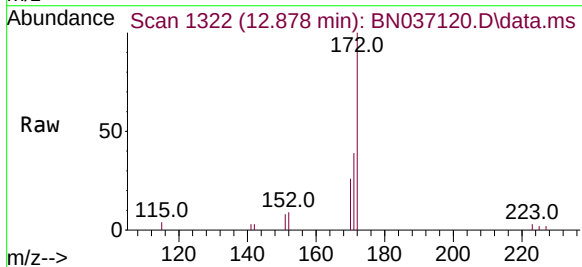
Tgt Ion:172 Resp: 3442

Ion Ratio Lower Upper

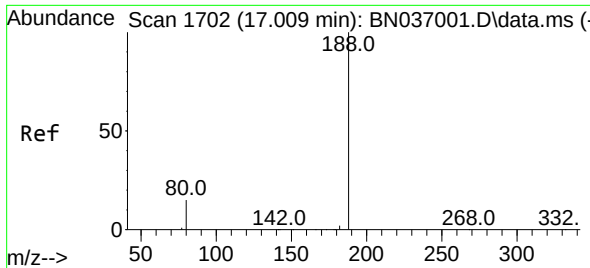
172 100

171 38.9 29.2 43.8

170 26.0 20.5 30.7



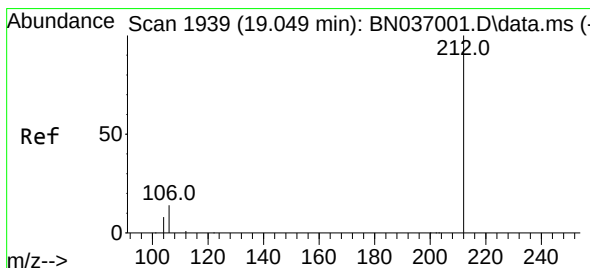
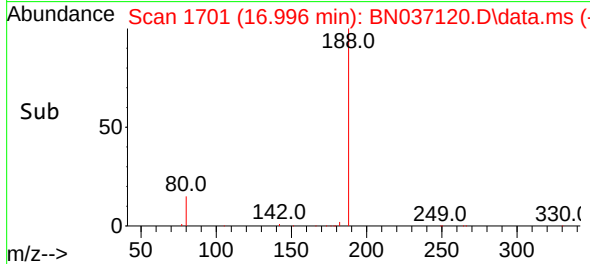
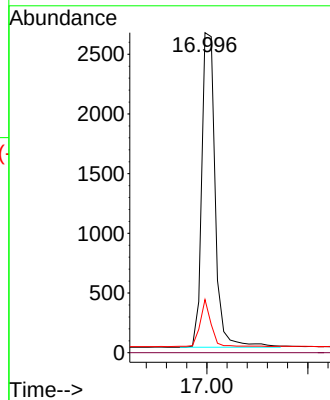
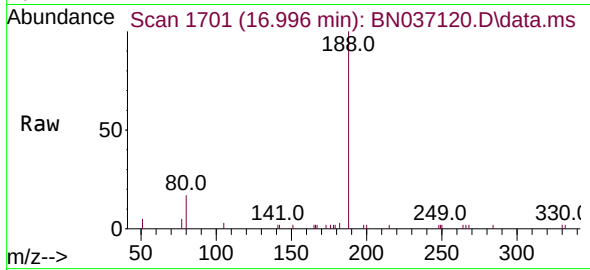




#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 16.996 min Scan# 1701  
Delta R.T. -0.012 min  
Lab File: BN037120.D  
Acq: 28 May 2025 21:59

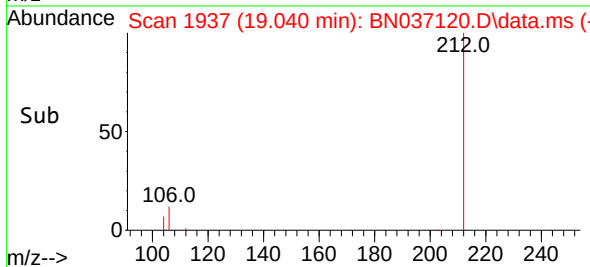
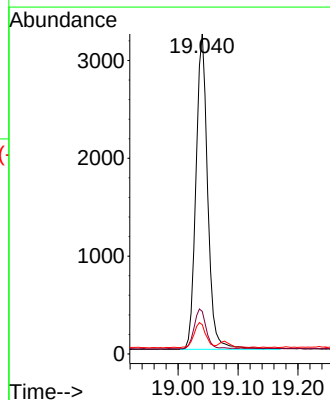
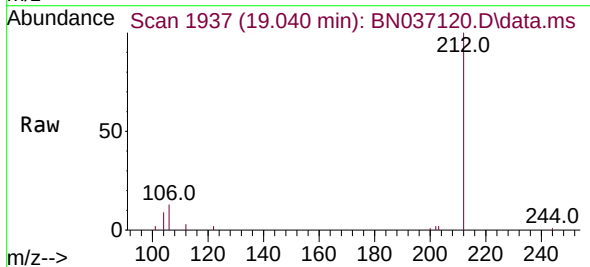
Instrument :  
BNA\_N  
ClientSampleId :  
BP-VPB-182-GW-460-462

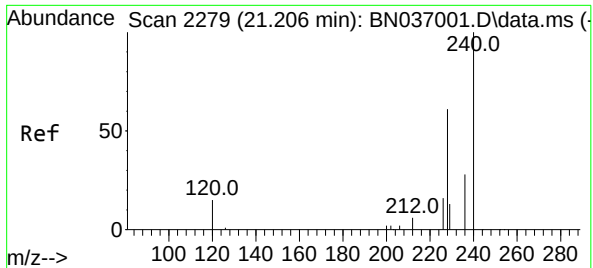
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 0.0   | 0.0   | 0.0   |
| 80      | 16.6  | 13.4  | 20.0  |



#27  
Fluoranthene-d10  
Concen: 0.326 ng  
RT: 19.040 min Scan# 1937  
Delta R.T. -0.009 min  
Lab File: BN037120.D  
Acq: 28 May 2025 21:59

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 212     | 100   |       |       |
| 106     | 13.0  | 11.3  | 16.9  |
| 104     | 8.0   | 6.7   | 10.1  |





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.198 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037120.D

Acq: 28 May 2025 21:59

Instrument :

BNA\_N

ClientSampleId :

BP-VPB-182-GW-460-462

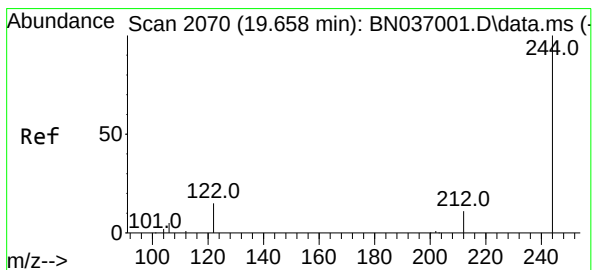
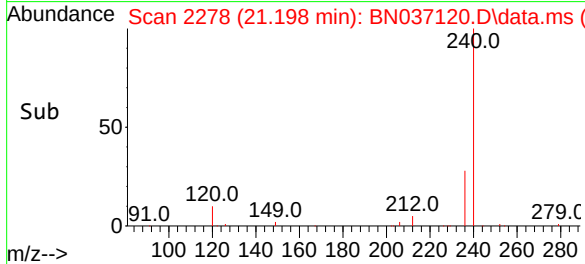
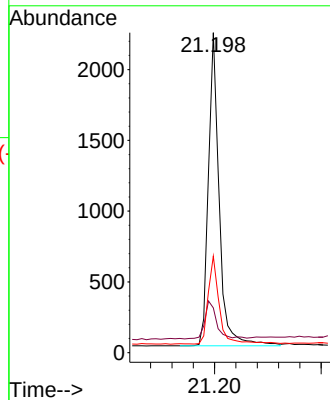
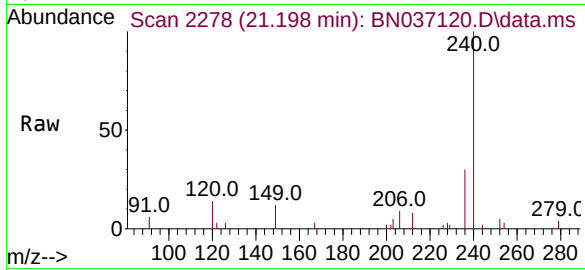
Tgt Ion:240 Resp: 3103

Ion Ratio Lower Upper

240 100

120 14.0 15.1 22.7#

236 30.2 24.0 36.0



#31

Terphenyl-d14

Concen: 0.547 ng

RT: 19.644 min Scan# 2067

Delta R.T. -0.014 min

Lab File: BN037120.D

Acq: 28 May 2025 21:59

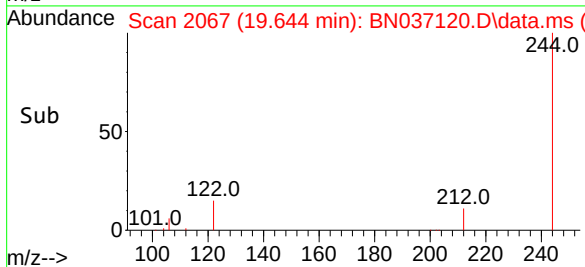
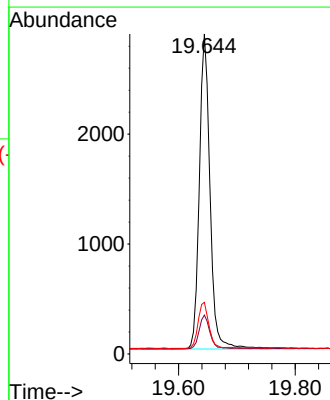
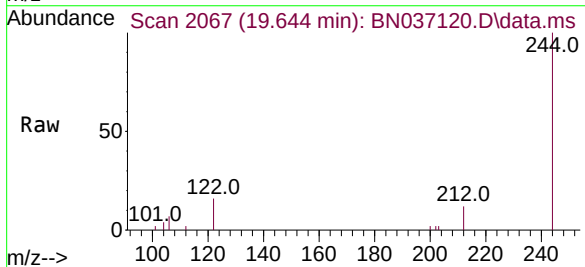
Tgt Ion:244 Resp: 3629

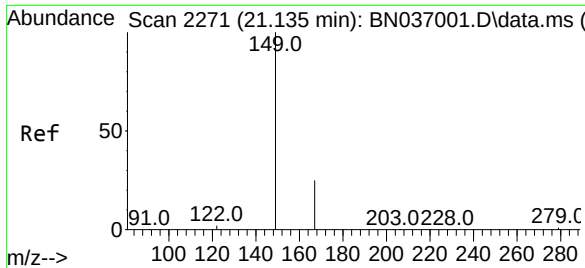
Ion Ratio Lower Upper

244 100

212 12.2 9.7 14.5

122 16.2 13.4 20.0

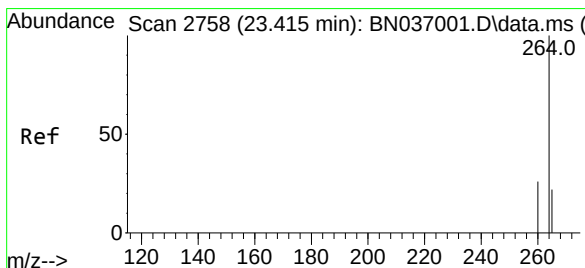
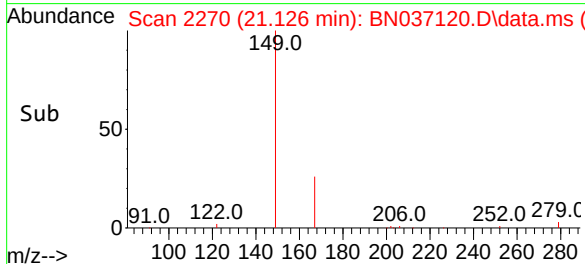
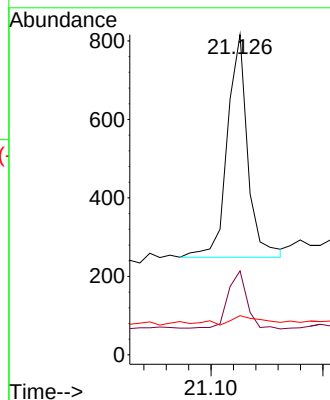
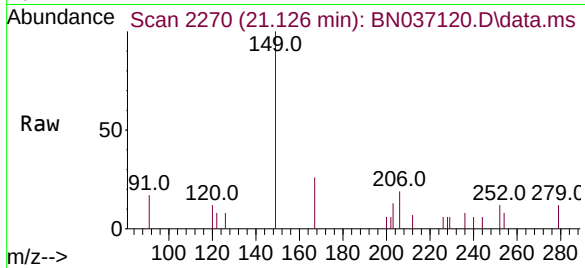




#34  
Bis(2-ethylhexyl)phthalate  
Concen: 0.100 ng  
RT: 21.126 min Scan# 2117  
Delta R.T. -0.009 min  
Lab File: BN037120.D  
Acq: 28 May 2025 21:59

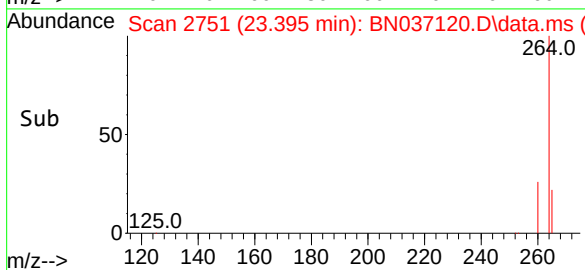
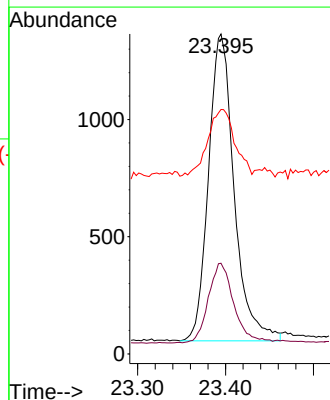
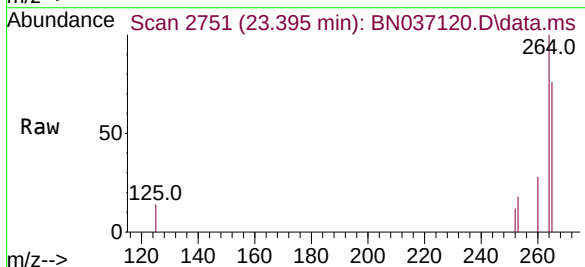
Instrument :  
BNA\_N  
ClientSampleId :  
BP-VPB-182-GW-460-462

Tgt Ion:149 Resp: 717  
Ion Ratio Lower Upper  
149 100  
167 24.7 20.6 30.8  
279 6.3 2.6 3.8#



#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.395 min Scan# 2751  
Delta R.T. -0.020 min  
Lab File: BN037120.D  
Acq: 28 May 2025 21:59

Tgt Ion:264 Resp: 2655  
Ion Ratio Lower Upper  
264 100  
260 28.4 21.9 32.9  
265 76.4 51.6 77.4



## Report of Analysis

|                    |                               |                 |                |
|--------------------|-------------------------------|-----------------|----------------|
| Client:            | Tetra Tech NUS, Inc.          | Date Collected: | 05/21/25       |
| Project:           | NWIRP Bethpage 112G08005-WE13 | Date Received:  | 05/22/25       |
| Client Sample ID:  | BP-VPB-182-GW-500-502         | SDG No.:        | Q2118          |
| Lab Sample ID:     | Q2118-07                      | Matrix:         | Water          |
| Analytical Method: | SW8270ESIM                    | % Solid:        | 0              |
| Sample Wt/Vol:     | 100      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 |
| BN037121.D        | 1         | 05/23/25 11:50 | 05/28/25 22:35 | PB168155      |

| CAS Number                | Parameter               | Conc. | Qualifier | MDL      | LOD  | LOQ / CRQL | Units    |
|---------------------------|-------------------------|-------|-----------|----------|------|------------|----------|
| <b>TARGETS</b>            |                         |       |           |          |      |            |          |
| 123-91-1                  | 1,4-Dioxane             | 2.00  | U         | 0.66     | 2.00 | 2.00       | ug/L     |
| <b>SURROGATES</b>         |                         |       |           |          |      |            |          |
| 7297-45-2                 | 2-Methylnaphthalene-d10 | 0.30  |           | 30 - 150 |      | 75%        | SPK: 0.4 |
| 93951-69-0                | Fluoranthene-d10        | 0.26  |           | 30 - 150 |      | 65%        | SPK: 0.4 |
| 4165-60-0                 | Nitrobenzene-d5         | 0.28  |           | 55 - 111 |      | 69%        | SPK: 0.4 |
| 321-60-8                  | 2-Fluorobiphenyl        | 0.23  |           | 53 - 106 |      | 56%        | SPK: 0.4 |
| 1718-51-0                 | Terphenyl-d14           | 0.33  |           | 58 - 132 |      | 81%        | SPK: 0.4 |
| <b>INTERNAL STANDARDS</b> |                         |       |           |          |      |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4  | 1950  | 7.611     |          |      |            |          |
| 1146-65-2                 | Naphthalene-d8          | 5310  | 10.383    |          |      |            |          |
| 15067-26-2                | Acenaphthene-d10        | 3450  | 14.256    |          |      |            |          |
| 1517-22-2                 | Phenanthrene-d10        | 6180  | 16.996    |          |      |            |          |
| 1719-03-5                 | Chrysene-d12            | 5120  | 21.197    |          |      |            |          |
| 1520-96-3                 | Perylene-d12            | 5400  | 23.392    |          |      |            |          |

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\BN052825\  
 Data File : BN037121.D  
 Acq On : 28 May 2025 22:35  
 Operator : RC/JU  
 Sample : Q2118-07  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 BP-VPB-182-GW-500-502

Quant Time: May 29 01:33:42 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN051425.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 14 11:26:32 2025  
 Response via : Initial Calibration

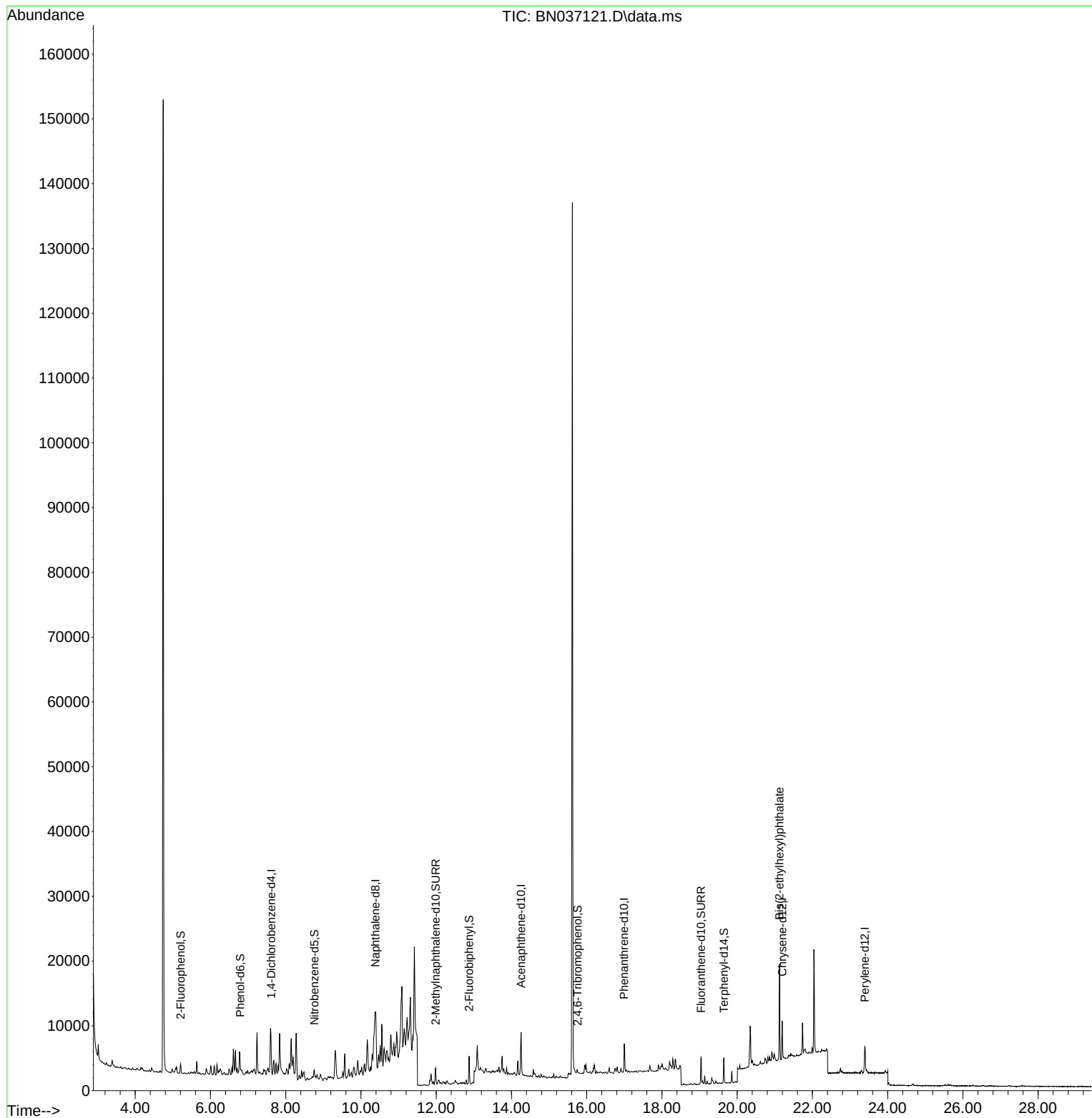
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.611  | 152  | 1952     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.383 | 136  | 5310     | 0.400 | ng    | #-0.02   |
| 13) Acenaphthene-d10          | 14.256 | 164  | 3451     | 0.400 | ng    | -0.01    |
| 19) Phenanthrene-d10          | 16.996 | 188  | 6176     | 0.400 | ng    | -0.01    |
| 29) Chrysene-d12              | 21.197 | 240  | 5116     | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.392 | 264  | 5396     | 0.400 | ng    | -0.02    |
|                               |        |      |          |       |       |          |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.206  | 112  | 615      | 0.120 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.788  | 99   | 738      | 0.115 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.760  | 82   | 1593     | 0.276 | ng    | -0.01    |
| 11) 2-Methylnaphthalene-d10   | 11.986 | 152  | 2253     | 0.301 | ng    | -0.01    |
| 14) 2,4,6-Tribromophenol      | 15.755 | 330  | 206      | 0.136 | ng    | -0.01    |
| 15) 2-Fluorobiphenyl          | 12.873 | 172  | 3566     | 0.226 | ng    | -0.02    |
| 27) Fluoranthene-d10          | 19.040 | 212  | 4393     | 0.259 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.644 | 244  | 3566     | 0.326 | ng    | -0.01    |
|                               |        |      |          |       |       |          |
| Target Compounds              |        |      |          |       |       | Qvalue   |
| 34) Bis(2-ethylhexyl)phtha... | 21.126 | 149  | 12566    | 1.060 | ng    | 99       |
| -----                         |        |      |          |       |       |          |

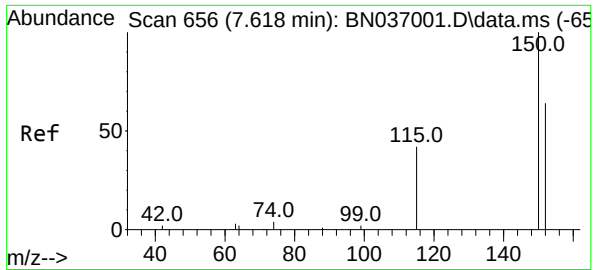
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN052825\  
Data File : BN037121.D  
Acq On : 28 May 2025 22:35  
Operator : RC/JU  
Sample : Q2118-07  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
BP-VPB-182-GW-500-502

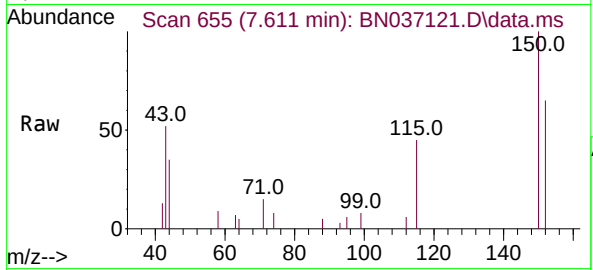
Quant Time: May 29 01:33:42 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN051425.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed May 14 11:26:32 2025  
Response via : Initial Calibration



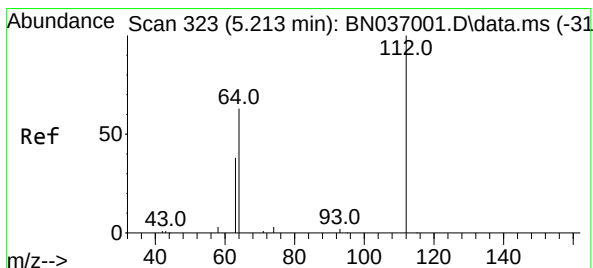
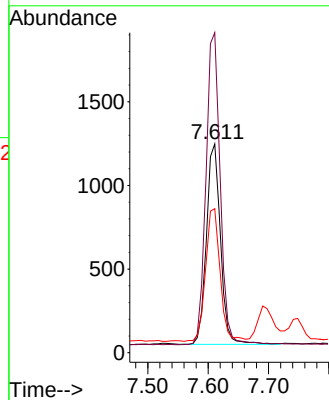
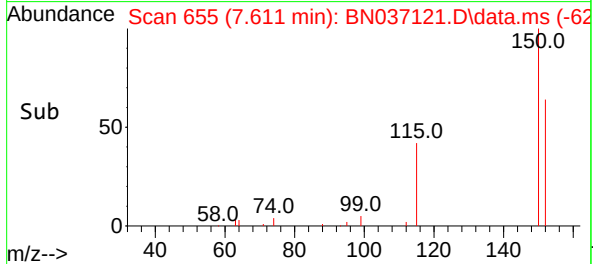


#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.611 min Scan# 61  
Delta R.T. -0.007 min  
Lab File: BN037121.D  
Acq: 28 May 2025 22:35

Instrument :  
BNA\_N  
ClientSampleId :  
BP-VPB-182-GW-500-502

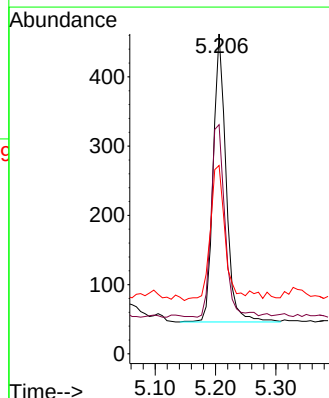
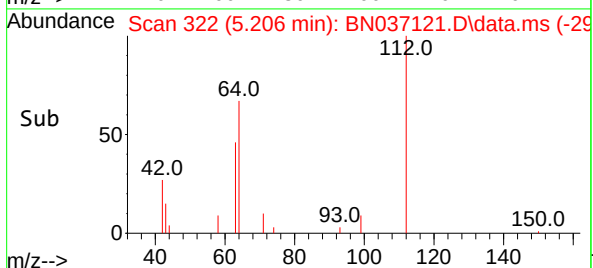
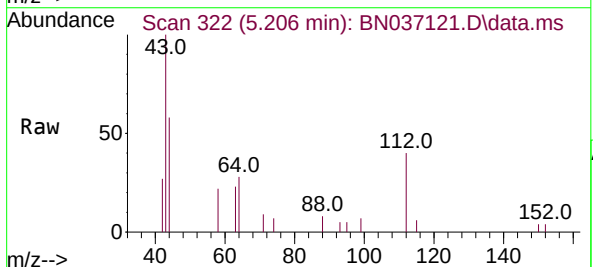


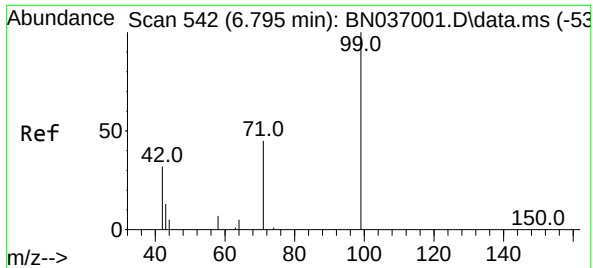
Tgt Ion:152 Resp: 1952  
Ion Ratio Lower Upper  
152 100  
150 153.3 123.9 185.9  
115 69.0 55.8 83.8



#4  
2-Fluorophenol  
Concen: 0.120 ng  
RT: 5.206 min Scan# 322  
Delta R.T. -0.007 min  
Lab File: BN037121.D  
Acq: 28 May 2025 22:35

Tgt Ion:112 Resp: 615  
Ion Ratio Lower Upper  
112 100  
64 72.4 55.7 83.5  
63 54.3 34.6 51.8#

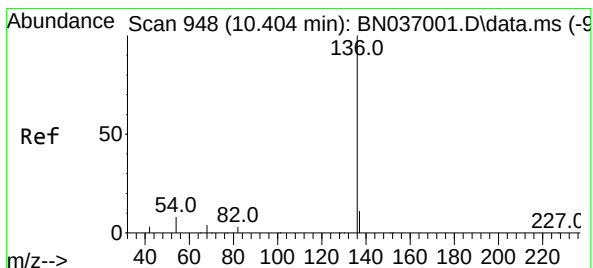
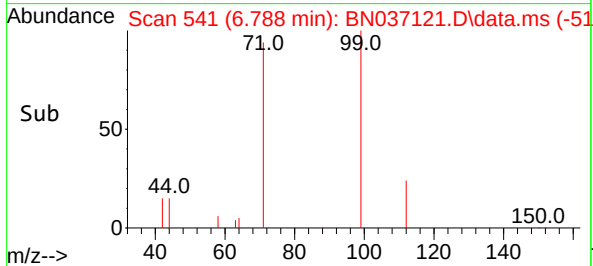
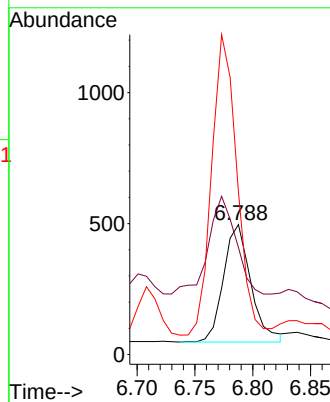
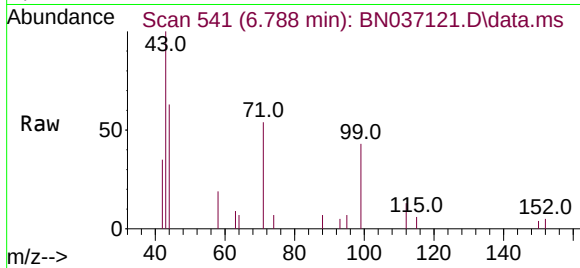




#5  
Phenol-d6  
Concen: 0.115 ng  
RT: 6.788 min Scan# 541  
Delta R.T. -0.007 min  
Lab File: BN037121.D  
Acq: 28 May 2025 22:35

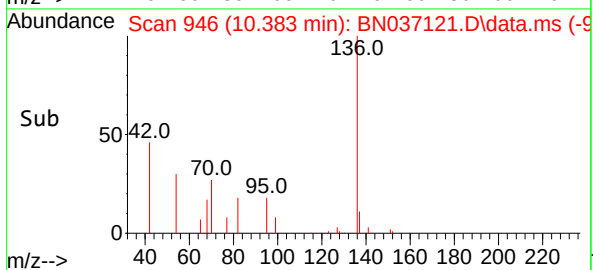
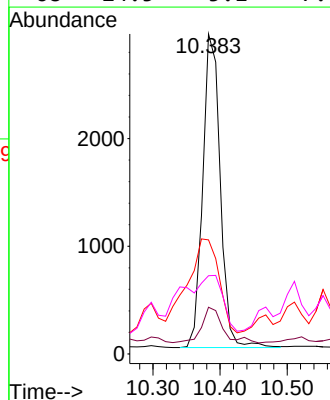
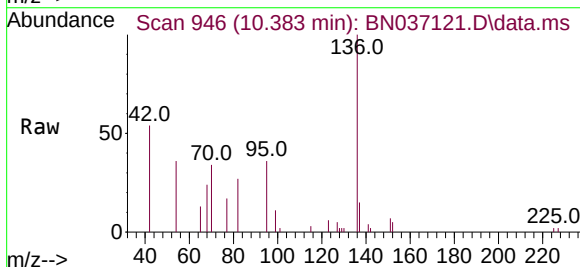
Instrument :  
BNA\_N  
ClientSampleId :  
BP-VPB-182-GW-500-502

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 99      | 100   |       |       |
| 42      | 83.1  | 29.3  | 43.9# |
| 71      | 236.6 | 35.7  | 53.5# |

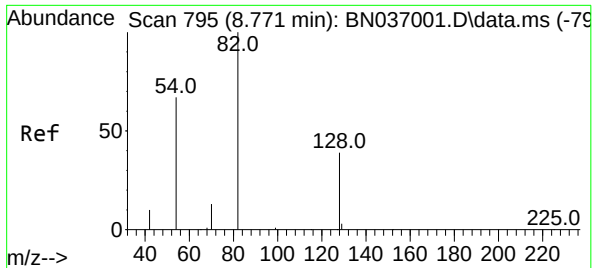


#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.383 min Scan# 946  
Delta R.T. -0.021 min  
Lab File: BN037121.D  
Acq: 28 May 2025 22:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 136     | 100   |       |       |
| 137     | 14.6  | 10.4  | 15.6  |
| 54      | 35.7  | 8.5   | 12.7# |
| 68      | 24.5  | 5.1   | 7.7#  |



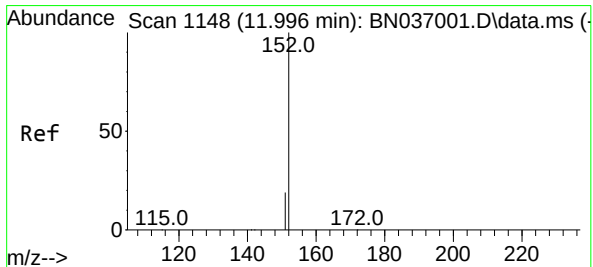
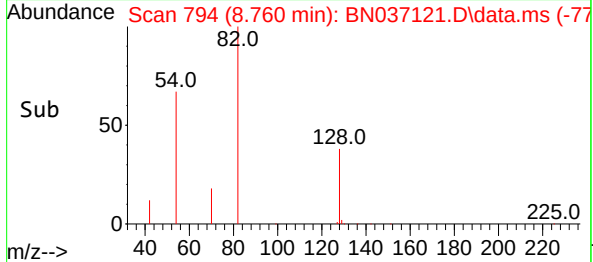
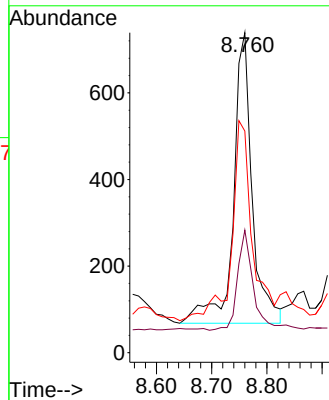
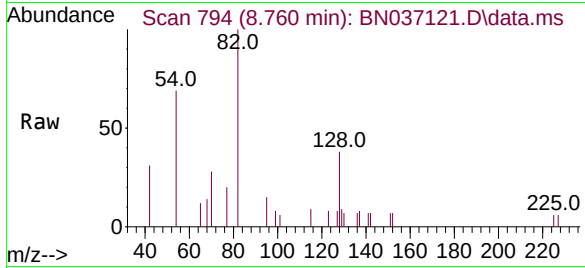




#8  
Nitrobenzene-d5  
Concen: 0.276 ng  
RT: 8.760 min Scan# 794  
Delta R.T. -0.011 min  
Lab File: BN037121.D  
Acq: 28 May 2025 22:35

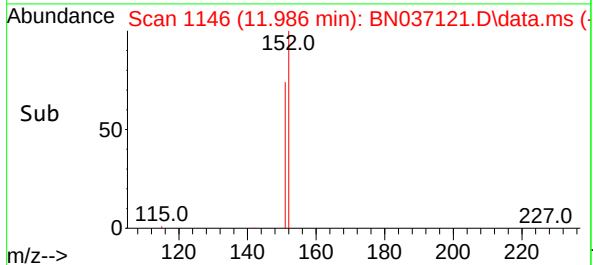
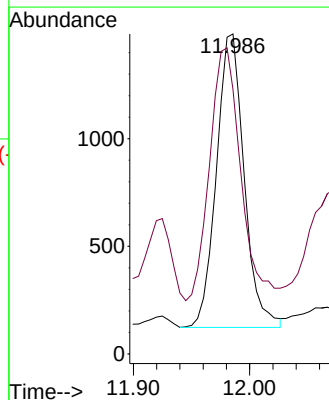
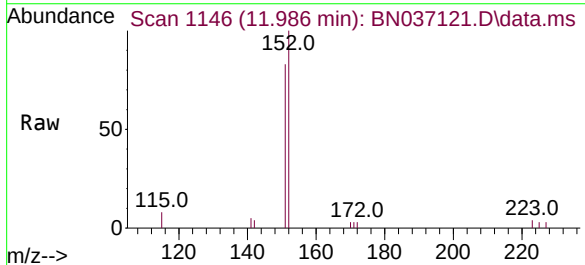
Instrument :  
BNA\_N  
ClientSampleId :  
BP-VPB-182-GW-500-502

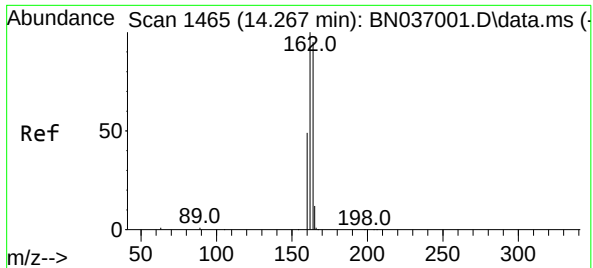
Tgt Ion: 82 Resp: 1593  
Ion Ratio Lower Upper  
82 100  
128 38.3 34.0 51.0  
54 69.3 55.0 82.4



#11  
2-Methylnaphthalene-d10  
Concen: 0.301 ng  
RT: 11.986 min Scan# 1146  
Delta R.T. -0.010 min  
Lab File: BN037121.D  
Acq: 28 May 2025 22:35

Tgt Ion: 152 Resp: 2253  
Ion Ratio Lower Upper  
152 100  
151 96.8 17.5 26.3#

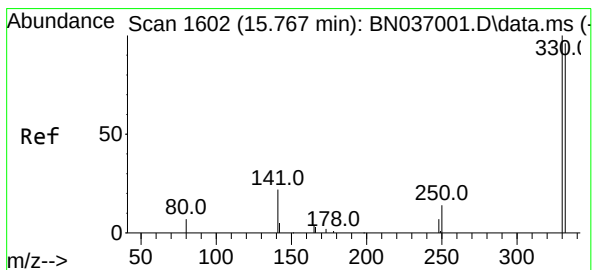
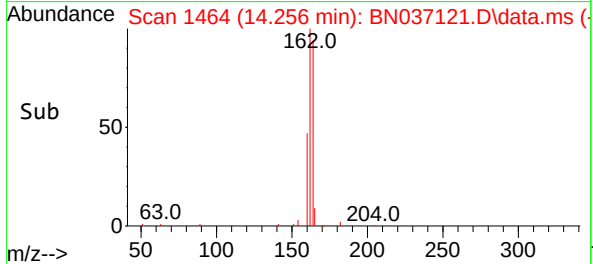
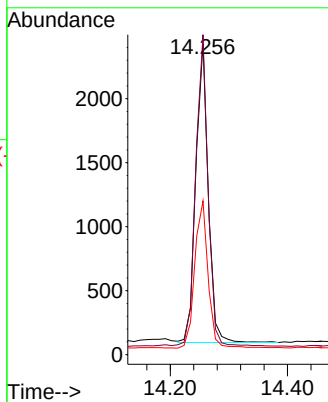
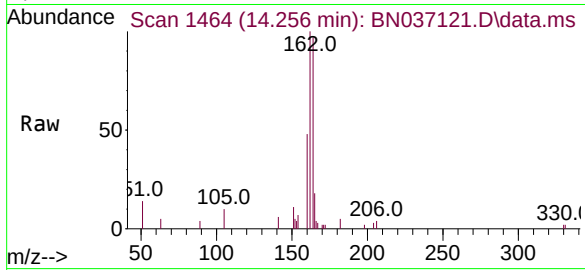




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.256 min Scan# 1464  
Delta R.T. -0.011 min  
Lab File: BN037121.D  
Acq: 28 May 2025 22:35

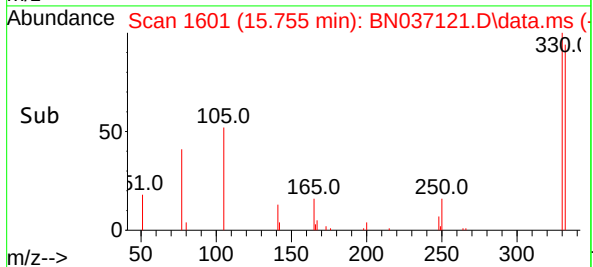
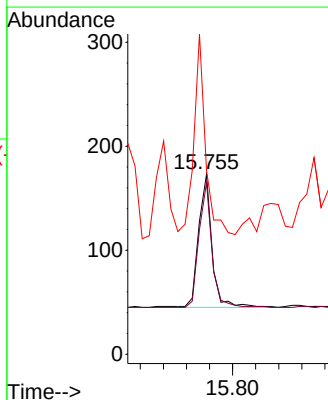
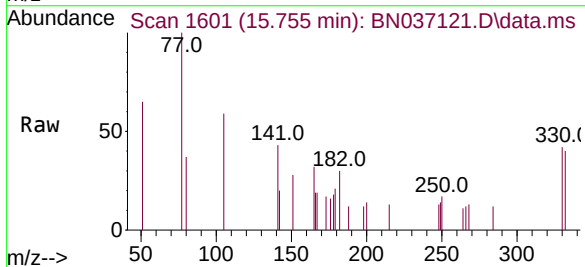
Instrument :  
BNA\_N  
ClientSampleId :  
BP-VPB-182-GW-500-502

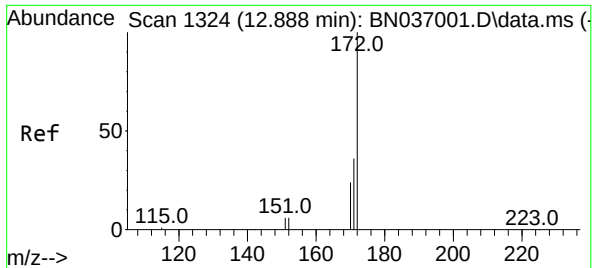
Tgt Ion:164 Resp: 3451  
Ion Ratio Lower Upper  
164 100  
162 102.8 84.2 126.4  
160 49.4 42.6 63.8



#14  
2,4,6-Tribromophenol  
Concen: 0.136 ng  
RT: 15.755 min Scan# 1601  
Delta R.T. -0.012 min  
Lab File: BN037121.D  
Acq: 28 May 2025 22:35

Tgt Ion:330 Resp: 206  
Ion Ratio Lower Upper  
330 100  
332 91.3 73.8 110.8  
141 129.1 43.9 65.9#

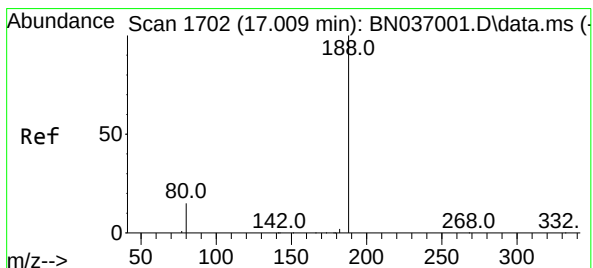
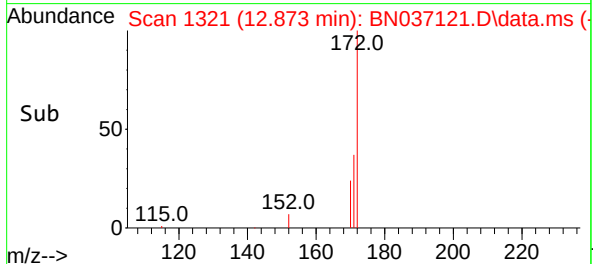
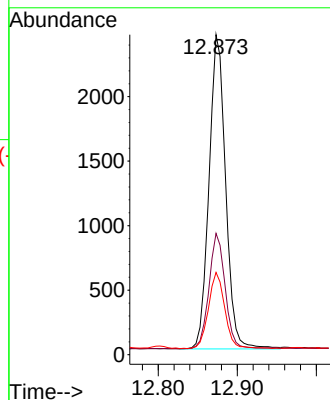
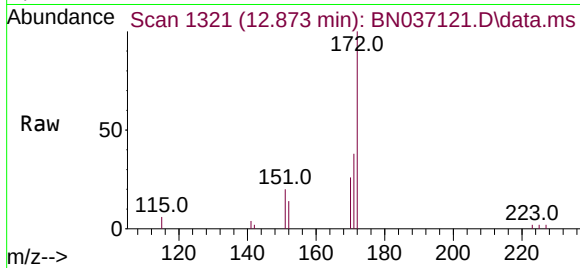




#15  
2-Fluorobiphenyl  
Concen: 0.226 ng  
RT: 12.873 min Scan# 11  
Delta R.T. -0.015 min  
Lab File: BN037121.D  
Acq: 28 May 2025 22:35

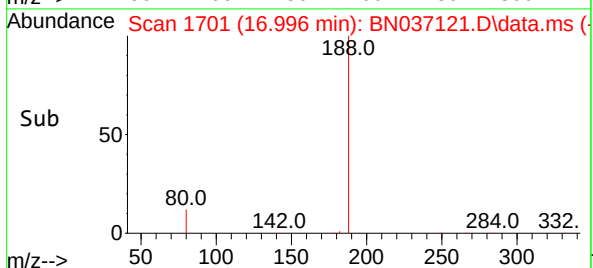
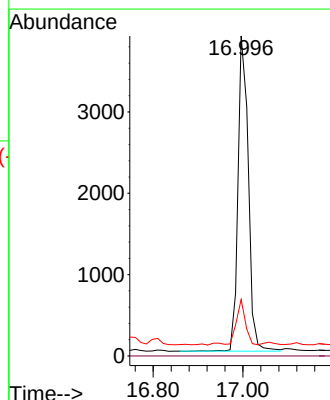
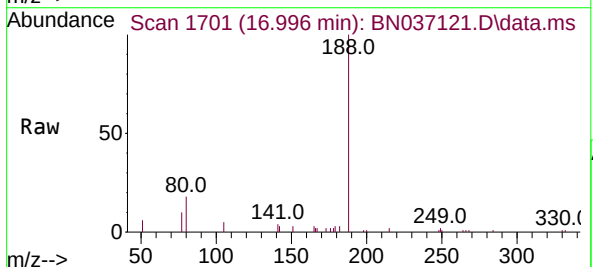
Instrument :  
BNA\_N  
ClientSampleId :  
BP-VPB-182-GW-500-502

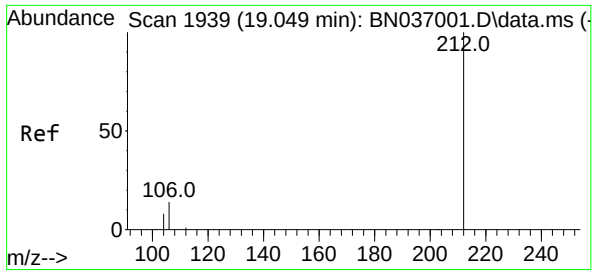
Tgt Ion:172 Resp: 3566  
Ion Ratio Lower Upper  
172 100  
171 37.9 29.2 43.8  
170 25.7 20.5 30.7



#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 16.996 min Scan# 1701  
Delta R.T. -0.012 min  
Lab File: BN037121.D  
Acq: 28 May 2025 22:35

Tgt Ion:188 Resp: 6176  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 17.6 13.4 20.0





#27

Fluoranthene-d10

Concen: 0.259 ng

RT: 19.040 min Scan# 1937

Delta R.T. -0.009 min

Lab File: BN037121.D

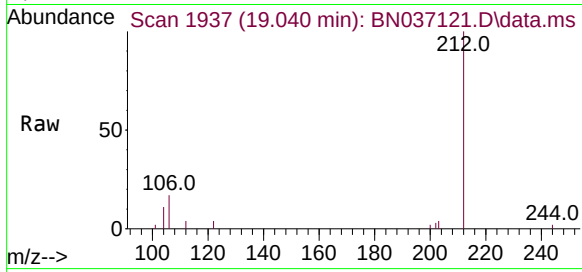
Acq: 28 May 2025 22:35

Instrument :

BNA\_N

ClientSampleId :

BP-VPB-182-GW-500-502



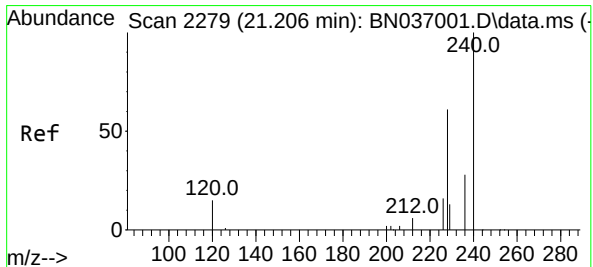
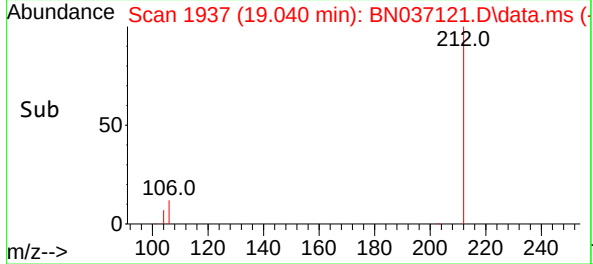
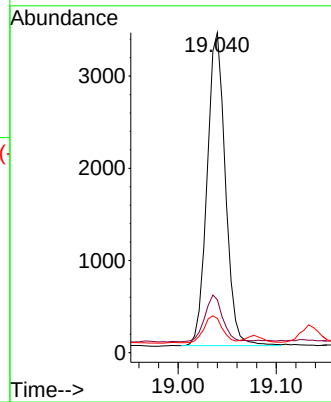
Tgt Ion:212 Resp: 4393

Ion Ratio Lower Upper

212 100

106 14.8 11.3 16.9

104 8.7 6.7 10.1



#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.197 min Scan# 2278

Delta R.T. -0.009 min

Lab File: BN037121.D

Acq: 28 May 2025 22:35

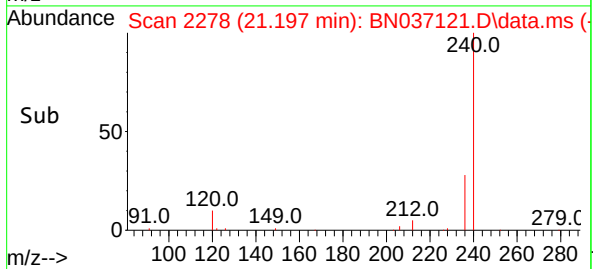
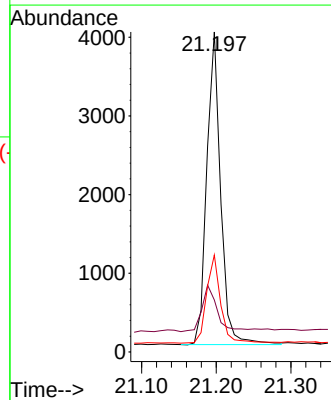
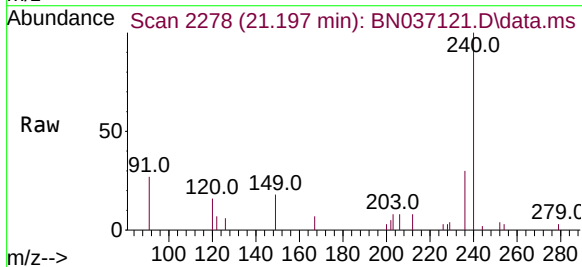
Tgt Ion:240 Resp: 5116

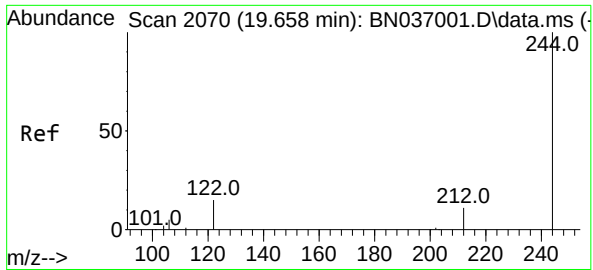
Ion Ratio Lower Upper

240 100

120 16.3 15.1 22.7

236 30.3 24.0 36.0

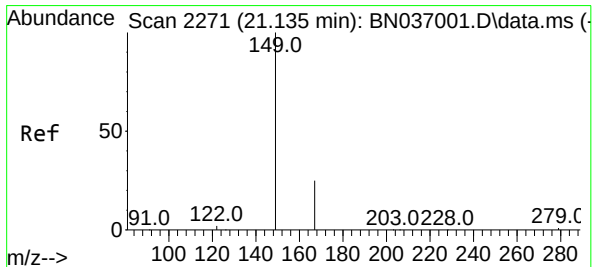
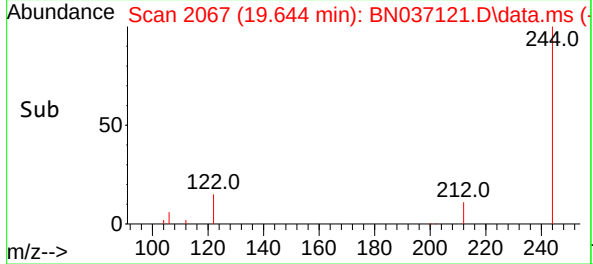
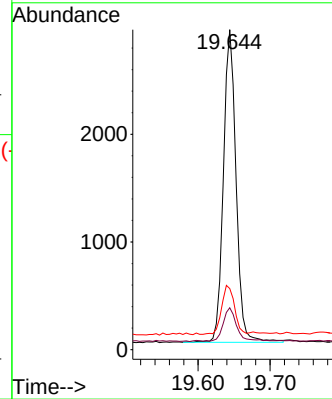
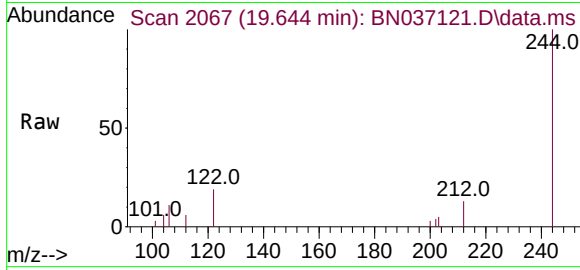




#31  
Terphenyl-d14  
Concen: 0.326 ng  
RT: 19.644 min Scan# 2070  
Delta R.T. -0.014 min  
Lab File: BN037121.D  
Acq: 28 May 2025 22:35

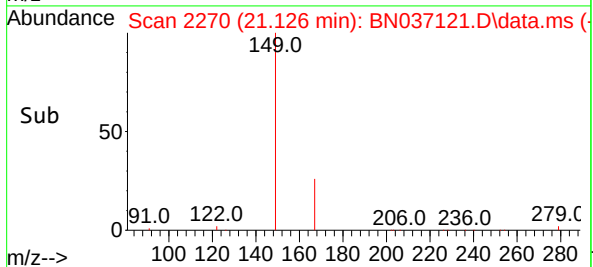
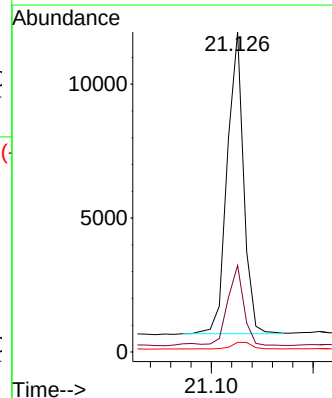
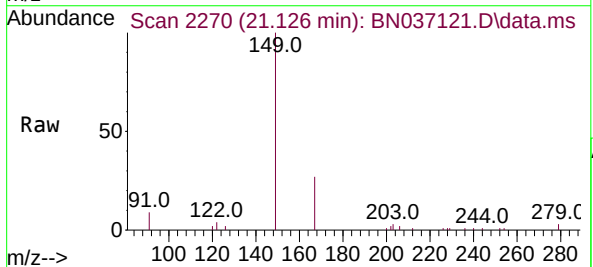
Instrument :  
BNA\_N  
ClientSampleId :  
BP-VPB-182-GW-500-502

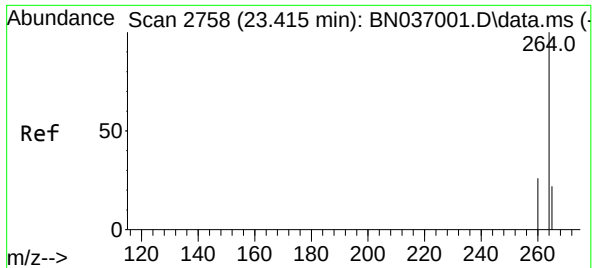
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 13.1  | 9.7   | 14.5  |
| 122     | 19.1  | 13.4  | 20.0  |



#34  
Bis(2-ethylhexyl)phthalate  
Concen: 1.060 ng  
RT: 21.126 min Scan# 2270  
Delta R.T. -0.009 min  
Lab File: BN037121.D  
Acq: 28 May 2025 22:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 26.4  | 20.6  | 30.8  |
| 279     | 2.8   | 2.6   | 3.8   |





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.392 min Scan# 21

Delta R.T. -0.023 min

Lab File: BN037121.D

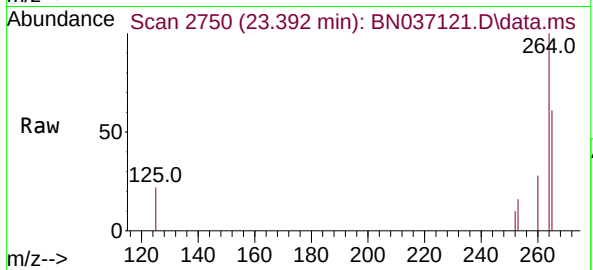
Acq: 28 May 2025 22:35

Instrument :

BNA\_N

ClientSampleId :

BP-VPB-182-GW-500-502



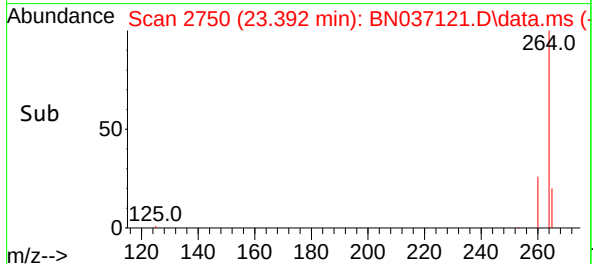
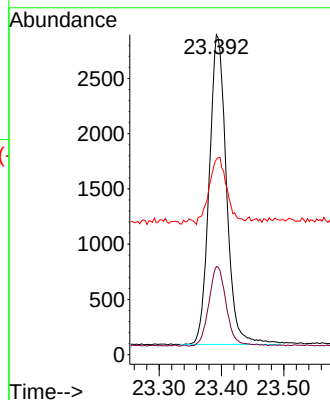
Tgt Ion:264 Resp: 5396

Ion Ratio Lower Upper

264 100

260 27.6 21.9 32.9

265 61.0 51.6 77.4



## Report of Analysis

|                    |                               |                 |                |
|--------------------|-------------------------------|-----------------|----------------|
| Client:            | Tetra Tech NUS, Inc.          | Date Collected: | 05/22/25       |
| Project:           | NWIRP Bethpage 112G08005-WE13 | Date Received:  | 05/22/25       |
| Client Sample ID:  | BP-VPB-182-GW-540-542         | SDG No.:        | Q2118          |
| Lab Sample ID:     | Q2118-09                      | Matrix:         | Water          |
| Analytical Method: | SW8270ESIM                    | % Solid:        | 0              |
| Sample Wt/Vol:     | 410      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 |
| BN037130.D        | 1         | 05/23/25 11:50 | 05/29/25 11:42 | PB168155      |

| CAS Number                | Parameter               | Conc. | Qualifier | MDL      | LOD  | LOQ / CRQL | Units    |
|---------------------------|-------------------------|-------|-----------|----------|------|------------|----------|
| <b>TARGETS</b>            |                         |       |           |          |      |            |          |
| 123-91-1                  | 1,4-Dioxane             | 0.49  | U         | 0.16     | 0.49 | 0.49       | ug/L     |
| <b>SURROGATES</b>         |                         |       |           |          |      |            |          |
| 7297-45-2                 | 2-Methylnaphthalene-d10 | 0.26  |           | 30 - 150 |      | 65%        | SPK: 0.4 |
| 93951-69-0                | Fluoranthene-d10        | 0.32  |           | 30 - 150 |      | 80%        | SPK: 0.4 |
| 4165-60-0                 | Nitrobenzene-d5         | 0.27  |           | 55 - 111 |      | 67%        | SPK: 0.4 |
| 321-60-8                  | 2-Fluorobiphenyl        | 0.27  |           | 53 - 106 |      | 67%        | SPK: 0.4 |
| 1718-51-0                 | Terphenyl-d14           | 0.54  | *         | 58 - 132 |      | 136%       | SPK: 0.4 |
| <b>INTERNAL STANDARDS</b> |                         |       |           |          |      |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4  | 2220  |           | 7.604    |      |            |          |
| 1146-65-2                 | Naphthalene-d8          | 5960  |           | 10.383   |      |            |          |
| 15067-26-2                | Acenaphthene-d10        | 3390  |           | 14.256   |      |            |          |
| 1517-22-2                 | Phenanthrene-d10        | 6720  |           | 16.996   |      |            |          |
| 1719-03-5                 | Chrysene-d12            | 4520  |           | 21.198   |      |            |          |
| 1520-96-3                 | Perylene-d12            | 3830  |           | 23.392   |      |            |          |

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\BN052925\  
 Data File : BN037130.D  
 Acq On : 29 May 2025 11:42  
 Operator : RC/JU  
 Sample : Q2118-09  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 BP-VPB-182-GW-540-542

Quant Time: May 29 12:23:07 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN051425.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 14 11:26:32 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.604  | 152  | 2218     | 0.400 | ng    | -0.01    |
| 7) Naphthalene-d8             | 10.383 | 136  | 5955     | 0.400 | ng    | #-0.02   |
| 13) Acenaphthene-d10          | 14.256 | 164  | 3394     | 0.400 | ng    | -0.01    |
| 19) Phenanthrene-d10          | 16.996 | 188  | 6721     | 0.400 | ng    | -0.01    |
| 29) Chrysene-d12              | 21.198 | 240  | 4523     | 0.400 | ng    | # 0.00   |
| 35) Perylene-d12              | 23.392 | 264  | 3829     | 0.400 | ng    | -0.02    |
|                               |        |      |          |       |       |          |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.206  | 112  | 1087     | 0.187 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.788  | 99   | 985      | 0.135 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.760  | 82   | 1746     | 0.269 | ng    | -0.01    |
| 11) 2-Methylnaphthalene-d10   | 11.986 | 152  | 2186     | 0.261 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.755 | 330  | 454      | 0.305 | ng    | -0.01    |
| 15) 2-Fluorobiphenyl          | 12.873 | 172  | 4172     | 0.268 | ng    | -0.02    |
| 27) Fluoranthene-d10          | 19.040 | 212  | 5895     | 0.320 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.644 | 244  | 5265     | 0.544 | ng    | -0.01    |
|                               |        |      |          |       |       |          |
| Target Compounds              |        |      |          |       |       | Qvalue   |
| 34) Bis(2-ethylhexyl)phtha... | 21.126 | 149  | 13273    | 1.266 | ng    | 99       |
| -----                         |        |      |          |       |       |          |

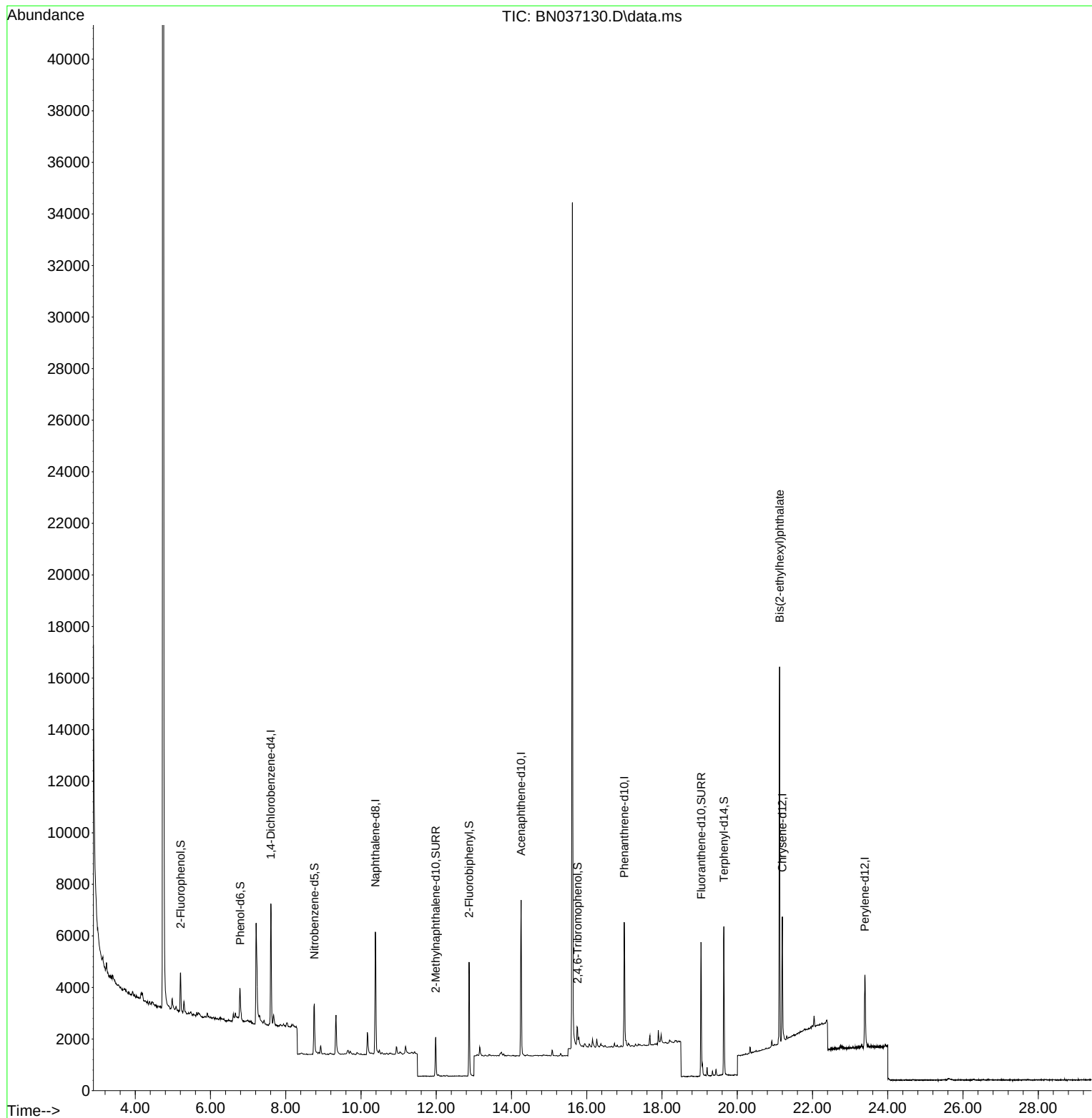
(#) = qualifier out of range (m) = manual integration (+) = signals summed

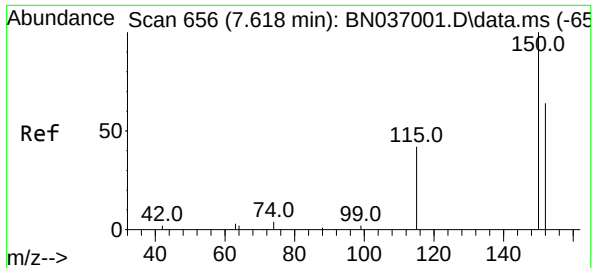


Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN052925\  
Data File : BN037130.D  
Acq On : 29 May 2025 11:42  
Operator : RC/JU  
Sample : Q2118-09  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
BP-VPB-182-GW-540-542

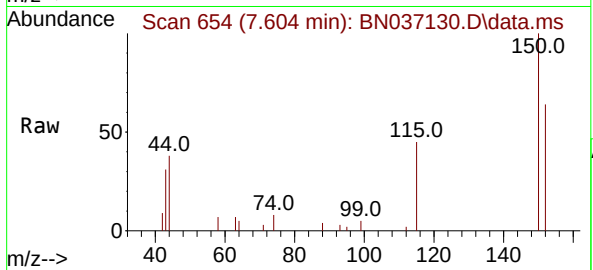
Quant Time: May 29 12:23:07 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN051425.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed May 14 11:26:32 2025  
Response via : Initial Calibration



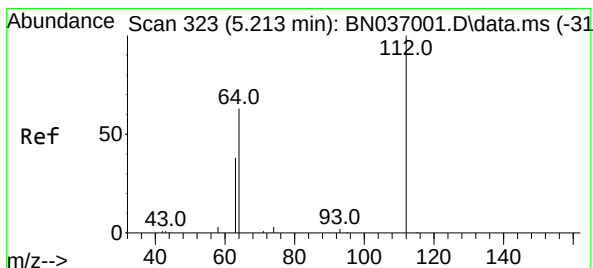
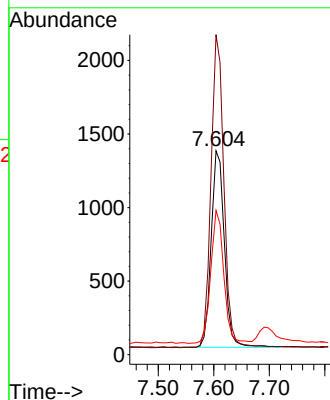
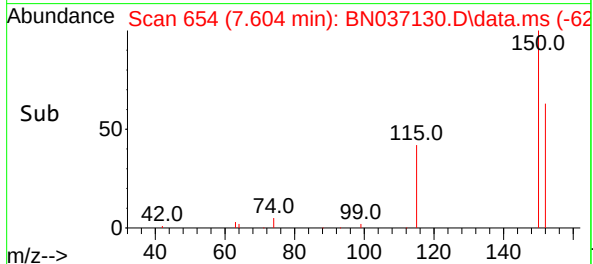


#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.604 min Scan# 61  
Delta R.T. -0.014 min  
Lab File: BN037130.D  
Acq: 29 May 2025 11:42

Instrument :  
BNA\_N  
ClientSampleId :  
BP-VPB-182-GW-540-542

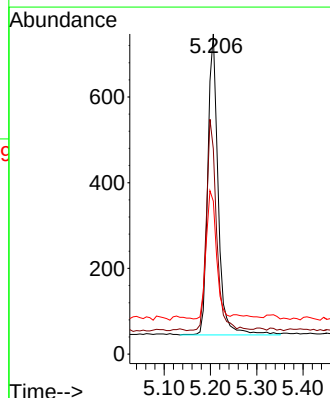
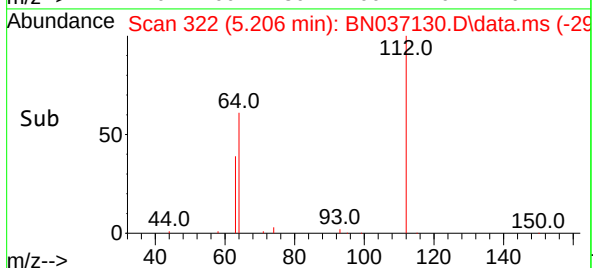
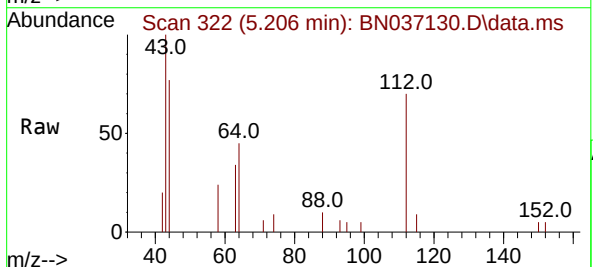


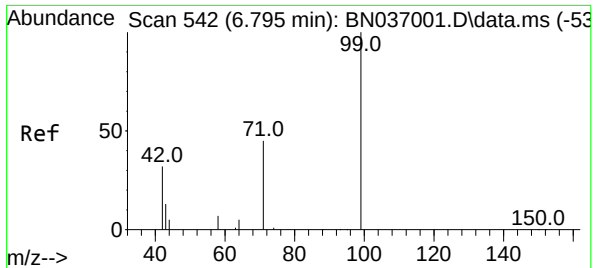
Tgt Ion:152 Resp: 2218  
Ion Ratio Lower Upper  
152 100  
150 156.9 123.9 185.9  
115 70.7 55.8 83.8



#4  
2-Fluorophenol  
Concen: 0.187 ng  
RT: 5.206 min Scan# 322  
Delta R.T. -0.007 min  
Lab File: BN037130.D  
Acq: 29 May 2025 11:42

Tgt Ion:112 Resp: 1087  
Ion Ratio Lower Upper  
112 100  
64 68.8 55.7 83.5  
63 43.4 34.6 51.8

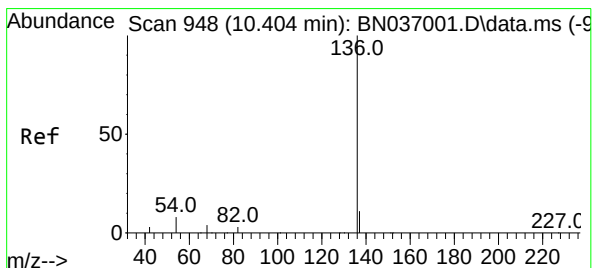
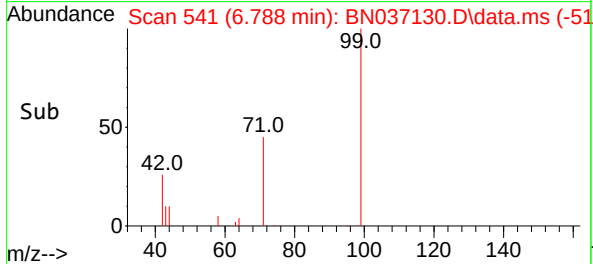
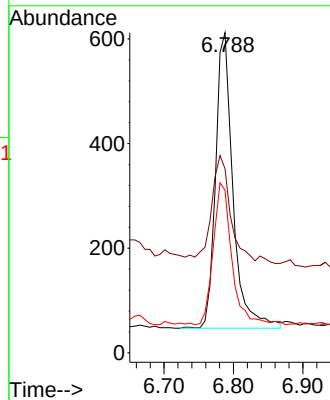
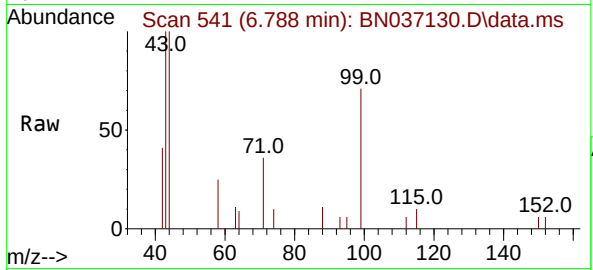




#5  
Phenol-d6  
Concen: 0.135 ng  
RT: 6.788 min Scan# 541  
Delta R.T. -0.007 min  
Lab File: BN037130.D  
Acq: 29 May 2025 11:42

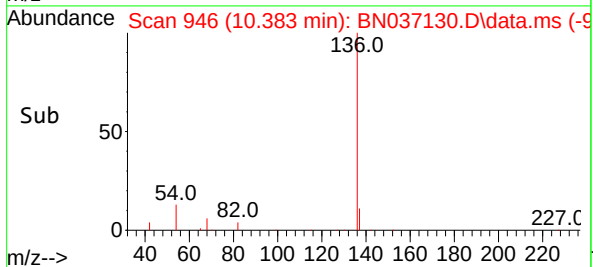
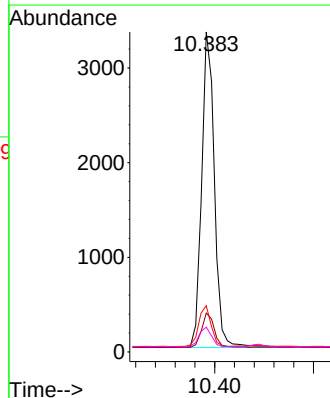
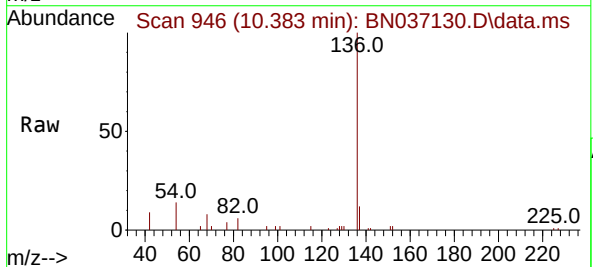
Instrument :  
BNA\_N  
ClientSampleId :  
BP-VPB-182-GW-540-542

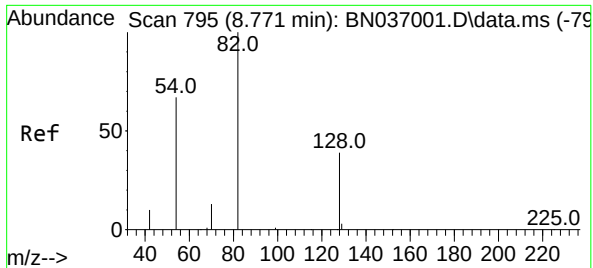
Tgt Ion: 99 Resp: 985  
Ion Ratio Lower Upper  
99 100  
42 37.0 29.3 43.9  
71 51.2 35.7 53.5



#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.383 min Scan# 946  
Delta R.T. -0.021 min  
Lab File: BN037130.D  
Acq: 29 May 2025 11:42

Tgt Ion: 136 Resp: 5955  
Ion Ratio Lower Upper  
136 100  
137 12.2 10.4 15.6  
54 14.5 8.5 12.7#  
68 7.8 5.1 7.7#

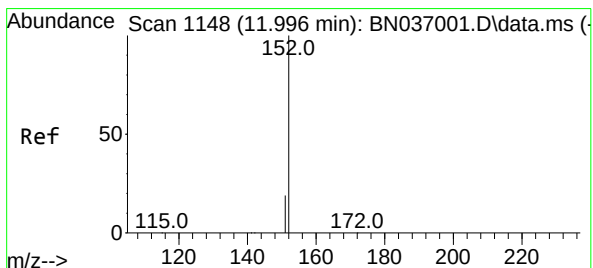
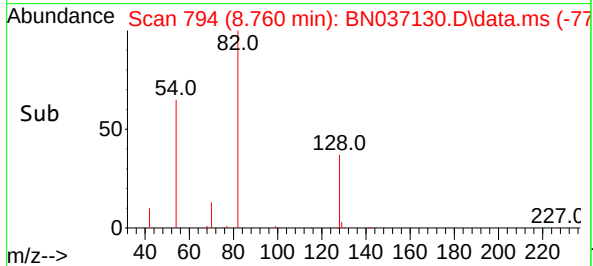
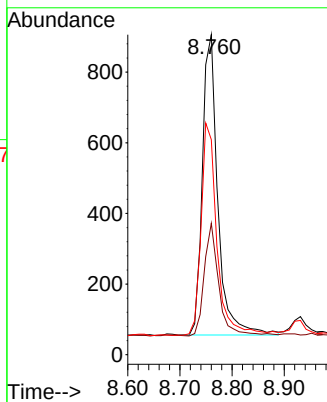
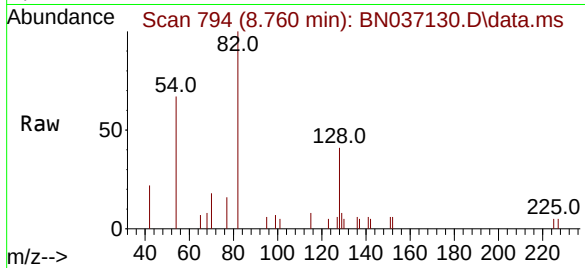




#8  
Nitrobenzene-d5  
Concen: 0.269 ng  
RT: 8.760 min Scan# 795  
Delta R.T. -0.011 min  
Lab File: BN037130.D  
Acq: 29 May 2025 11:42

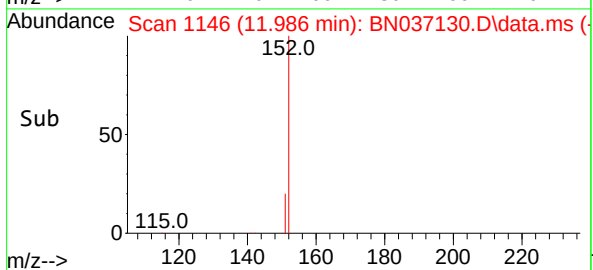
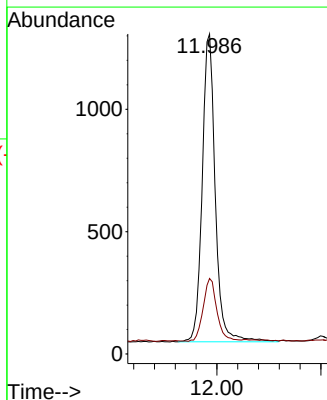
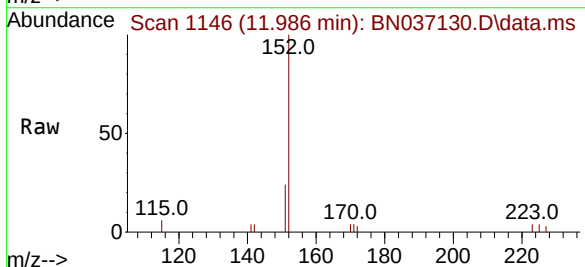
Instrument :  
BNA\_N  
ClientSampleId :  
BP-VPB-182-GW-540-542

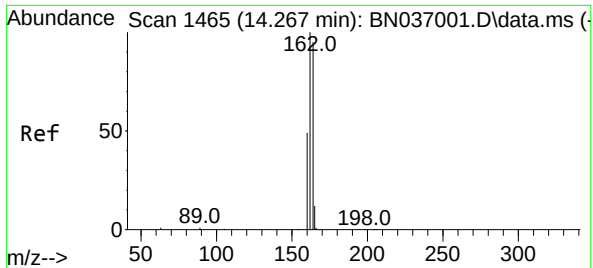
| Tgt Ion:  | 82    | Resp: | 1746 |
|-----------|-------|-------|------|
| Ion Ratio | Lower | Upper |      |
| 82        | 100   |       |      |
| 128       | 41.1  | 34.0  | 51.0 |
| 54        | 67.2  | 55.0  | 82.4 |



#11  
2-Methylnaphthalene-d10  
Concen: 0.261 ng  
RT: 11.986 min Scan# 1146  
Delta R.T. -0.010 min  
Lab File: BN037130.D  
Acq: 29 May 2025 11:42

| Tgt Ion:  | 152   | Resp: | 2186 |
|-----------|-------|-------|------|
| Ion Ratio | Lower | Upper |      |
| 152       | 100   |       |      |
| 151       | 21.3  | 17.5  | 26.3 |

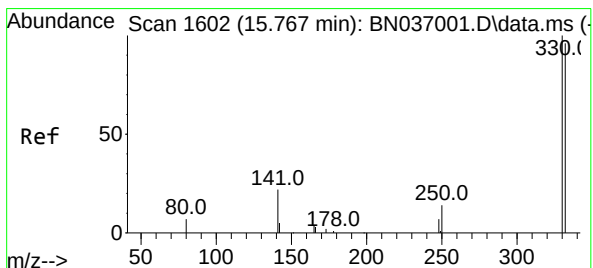
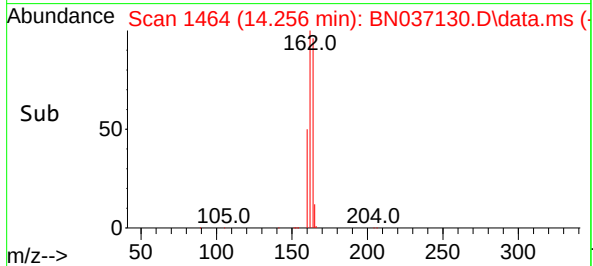
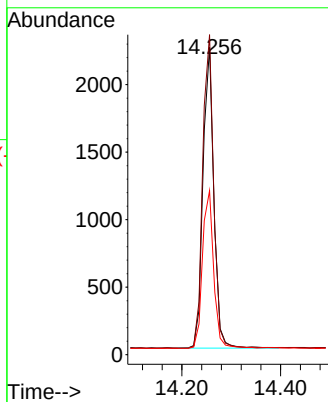
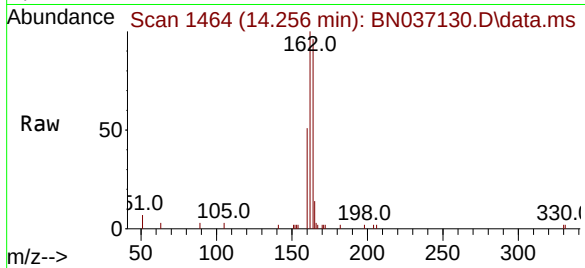




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.256 min Scan# 1464  
Delta R.T. -0.011 min  
Lab File: BN037130.D  
Acq: 29 May 2025 11:42

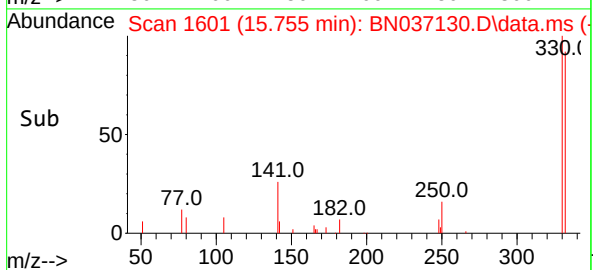
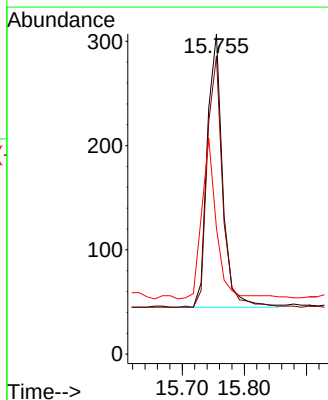
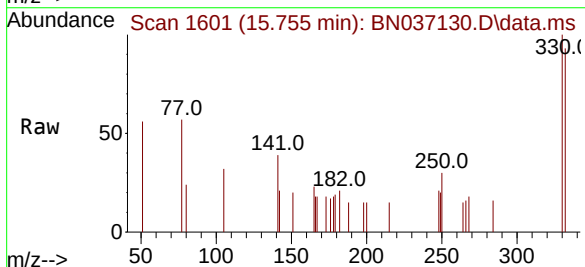
Instrument :  
BNA\_N  
ClientSampleId :  
BP-VPB-182-GW-540-542

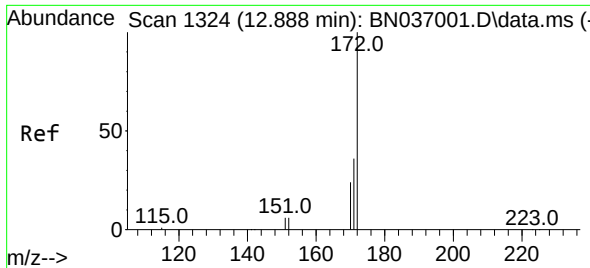
| Tgt Ion | 164   | Resp  | 3394  |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 164     | 100   |       |       |
| 162     | 104.0 | 84.2  | 126.4 |
| 160     | 53.3  | 42.6  | 63.8  |



#14  
2,4,6-Tribromophenol  
Concen: 0.305 ng  
RT: 15.755 min Scan# 1601  
Delta R.T. -0.012 min  
Lab File: BN037130.D  
Acq: 29 May 2025 11:42

| Tgt Ion | 330   | Resp  | 454   |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 330     | 100   |       |       |
| 332     | 91.6  | 73.8  | 110.8 |
| 141     | 57.7  | 43.9  | 65.9  |

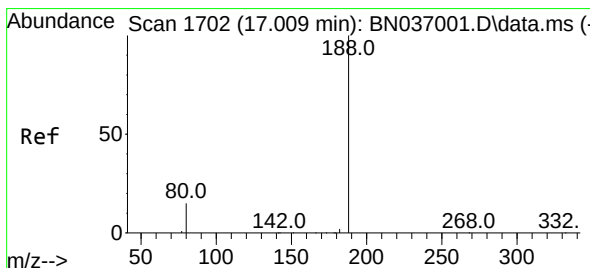
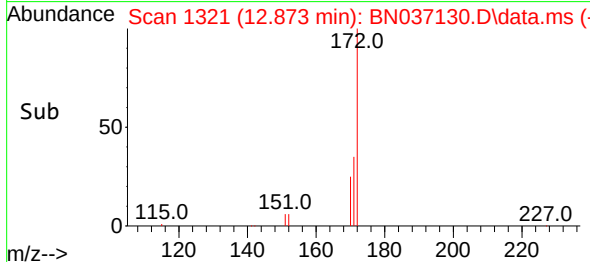
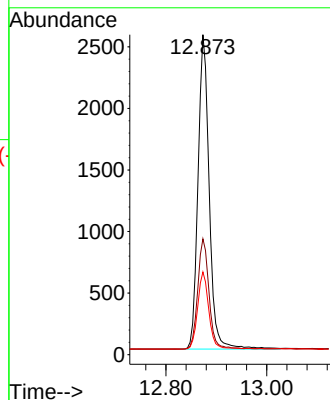
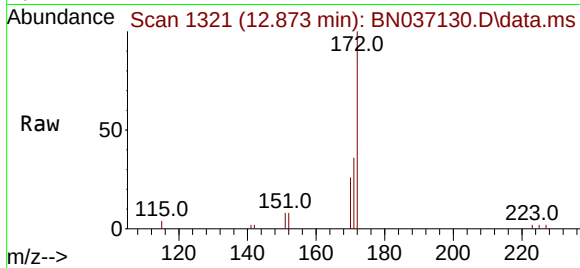




#15  
2-Fluorobiphenyl  
Concen: 0.268 ng  
RT: 12.873 min Scan# 11  
Delta R.T. -0.015 min  
Lab File: BN037130.D  
Acq: 29 May 2025 11:42

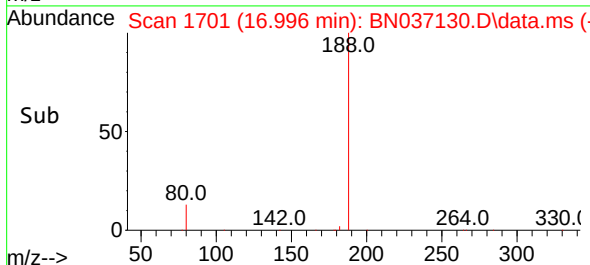
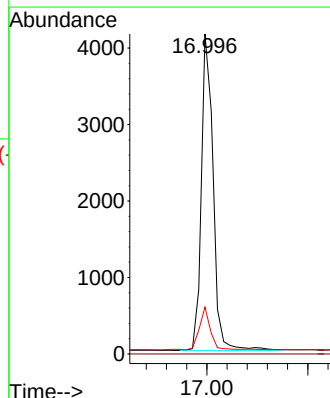
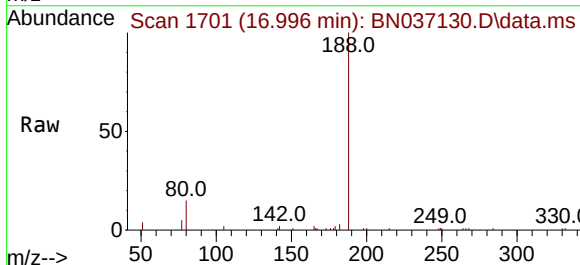
Instrument :  
BNA\_N  
ClientSampleId :  
BP-VPB-182-GW-540-542

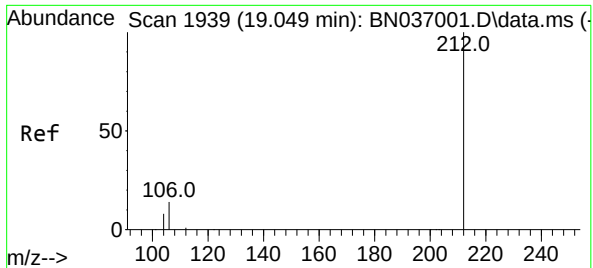
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.2  | 29.2  | 43.8  |
| 170     | 25.9  | 20.5  | 30.7  |



#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 16.996 min Scan# 1701  
Delta R.T. -0.012 min  
Lab File: BN037130.D  
Acq: 29 May 2025 11:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 0.0   | 0.0   | 0.0   |
| 80      | 14.6  | 13.4  | 20.0  |





#27

Fluoranthene-d10

Concen: 0.320 ng

RT: 19.040 min Scan# 1937

Delta R.T. -0.009 min

Lab File: BN037130.D

Acq: 29 May 2025 11:42

Instrument :

BNA\_N

ClientSampleId :

BP-VPB-182-GW-540-542

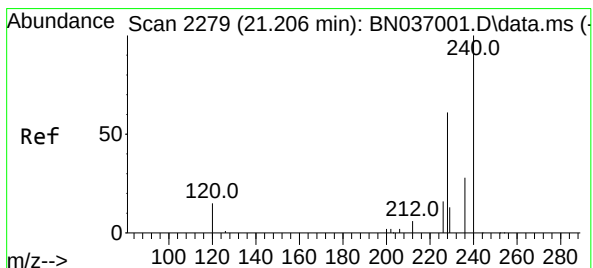
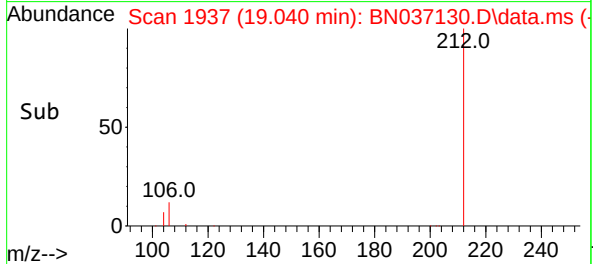
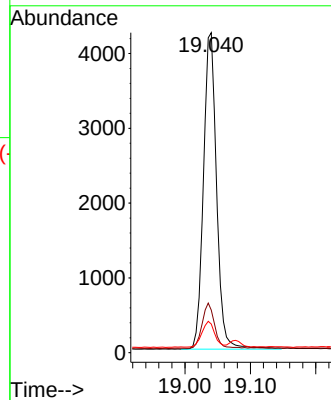
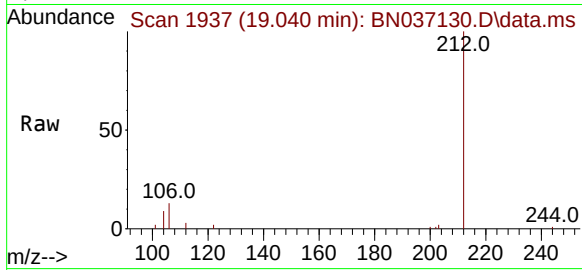
Tgt Ion:212 Resp: 5895

Ion Ratio Lower Upper

212 100

106 13.7 11.3 16.9

104 7.8 6.7 10.1



#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.198 min Scan# 2278

Delta R.T. -0.009 min

Lab File: BN037130.D

Acq: 29 May 2025 11:42

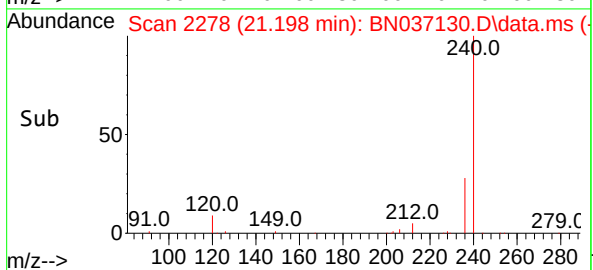
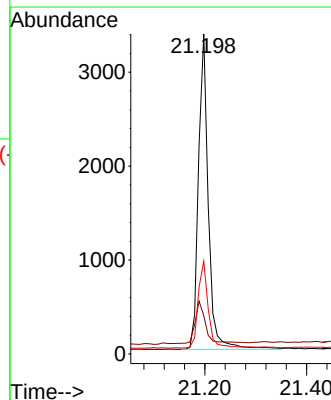
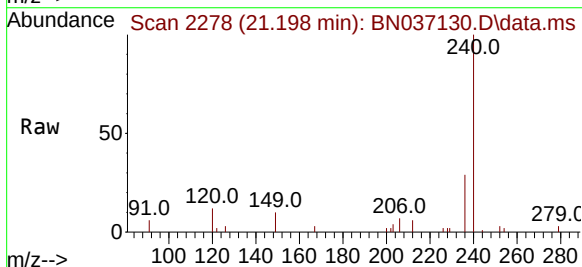
Tgt Ion:240 Resp: 4523

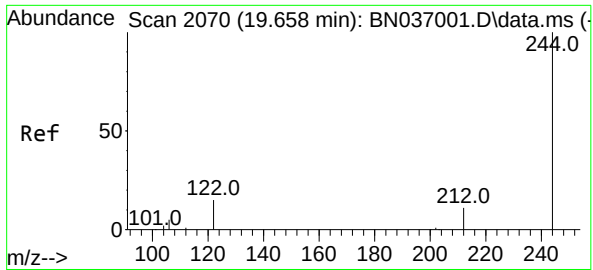
Ion Ratio Lower Upper

240 100

120 11.9 15.1 22.7#

236 29.0 24.0 36.0

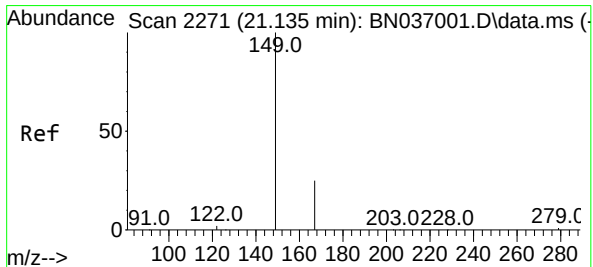
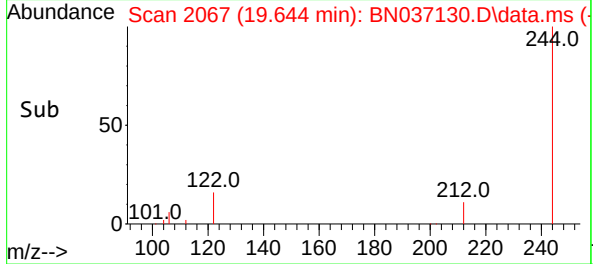
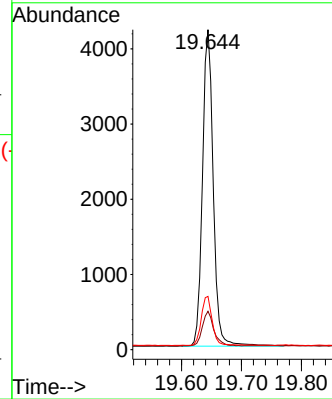
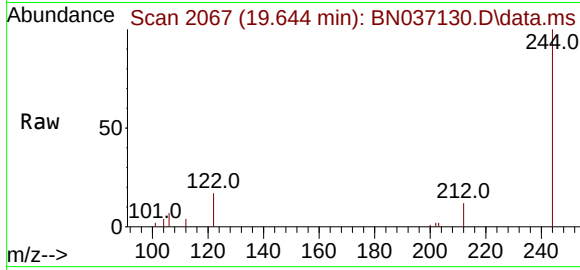




#31  
Terphenyl-d14  
Concen: 0.544 ng  
RT: 19.644 min Scan# 2070  
Delta R.T. -0.014 min  
Lab File: BN037130.D  
Acq: 29 May 2025 11:42

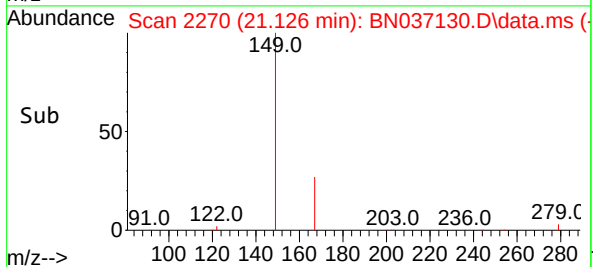
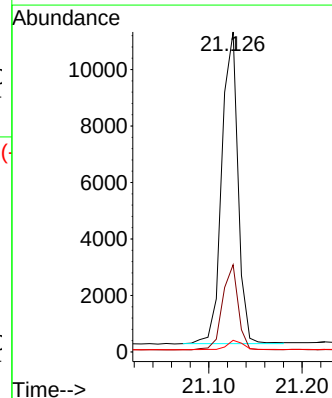
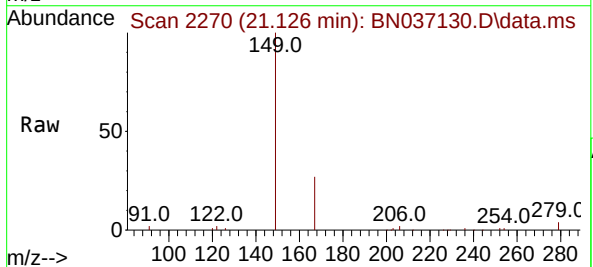
Instrument :  
BNA\_N  
ClientSampleId :  
BP-VPB-182-GW-540-542

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 12.0  | 9.7   | 14.5  |
| 122     | 16.7  | 13.4  | 20.0  |

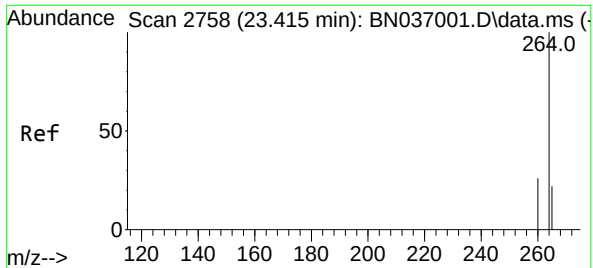


#34  
Bis(2-ethylhexyl)phthalate  
Concen: 1.266 ng  
RT: 21.126 min Scan# 2270  
Delta R.T. -0.009 min  
Lab File: BN037130.D  
Acq: 29 May 2025 11:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 26.2  | 20.6  | 30.8  |
| 279     | 3.0   | 2.6   | 3.8   |







#35

Perylene-d12

Concen: 0.400 ng

RT: 23.392 min Scan# 21

Delta R.T. -0.023 min

Lab File: BN037130.D

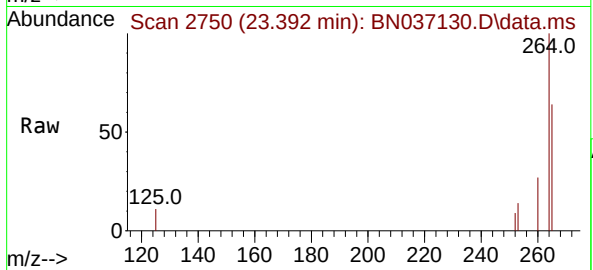
Acq: 29 May 2025 11:42

Instrument :

BNA\_N

ClientSampleId :

BP-VPB-182-GW-540-542



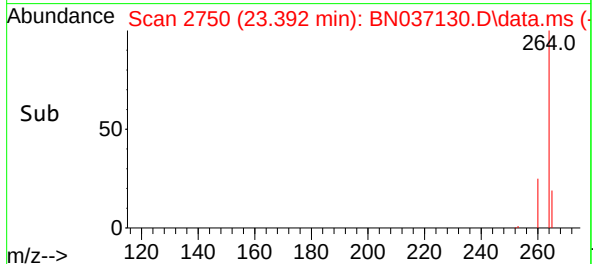
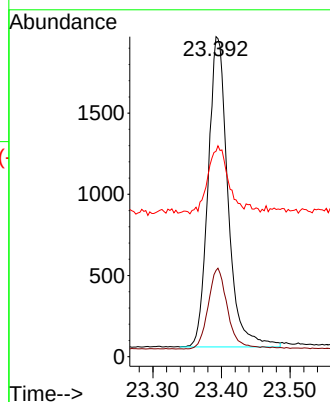
Tgt Ion:264 Resp: 3829

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

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

|     |      |      |      |
|-----|------|------|------|
| 260 | 26.9 | 21.9 | 32.9 |
|-----|------|------|------|

|     |      |      |      |
|-----|------|------|------|
| 265 | 64.2 | 51.6 | 77.4 |
|-----|------|------|------|





# CALIBRATION SUMMARY

Method Path : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\  
 Method File : 8270-SIM-BN051425.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 Last Update : Wed May 14 11:26:32 2025  
 Response Via : Initial Calibration

## Calibration Files

0.1 =BN036999.D 0.2 =BN037000.D 0.4 =BN037001.D 0.8 =BN037002.D 1.6 =BN037003.D 3.2 =BN037004.D 5.0 =BN037005.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           | 0.510          | 0.512 | 0.487 | 0.514 | 0.467 | 0.454 | 0.491 | 5.25  |       |
| 3)        | n-Nitrosodimet...     | 1.465          | 0.974 | 0.980 | 0.971 | 1.075 | 0.967 | 0.950 | 1.054 | 17.59 |
| 4) S      | 2-Fluorophenol        | 1.101          | 1.134 | 1.024 | 1.093 | 0.964 | 0.971 | 1.048 | 6.87  |       |
| 5) S      | Phenol-d6             | 1.304          | 1.385 | 1.236 | 1.392 | 1.259 | 1.292 | 1.311 | 4.91  |       |
| 6)        | bis(2-Chloroet...     | 1.441          | 1.163 | 1.153 | 1.135 | 1.240 | 1.168 | 1.148 | 1.207 | 9.02  |
|           |                       |                |       |       |       |       |       |       |       |       |
| 7) I      | Naphthalene-d8        | -----ISTD----- |       |       |       |       |       |       |       |       |
| 8) S      | Nitrobenzene-d5       | 0.546          | 0.383 | 0.398 | 0.400 | 0.452 | 0.426 | 0.442 | 0.436 | 12.60 |
| 9)        | Naphthalene           | 1.326          | 1.140 | 1.144 | 1.122 | 1.226 | 1.152 | 1.165 | 1.182 | 6.05  |
| 10)       | Hexachlorobuta...     | 0.286          | 0.248 | 0.244 | 0.235 | 0.256 | 0.236 | 0.233 | 0.248 | 7.47  |
| 11) SURR2 | Methylnaphth...       | 0.529          | 0.547 | 0.552 | 0.548 | 0.603 | 0.574 | 0.588 | 0.563 | 4.65  |
| 12)       | 2-Methylnaphth...     | 0.754          | 0.724 | 0.736 | 0.733 | 0.814 | 0.770 | 0.790 | 0.760 | 4.34  |
|           |                       |                |       |       |       |       |       |       |       |       |
| 13) I     | Acenaphthene-d10      | -----ISTD----- |       |       |       |       |       |       |       |       |
| 14) S     | 2,4,6-Tribromo...     | 0.174          | 0.168 | 0.178 | 0.160 | 0.186 | 0.175 | 0.189 | 0.176 | 5.77  |
| 15) S     | 2-Fluorobiphenyl      | 1.912          | 1.801 | 1.901 | 1.802 | 1.927 | 1.672 | 1.807 | 1.832 | 4.90  |
| 16)       | Acenaphthylene        | 1.906          | 1.838 | 1.894 | 1.849 | 2.071 | 1.997 | 2.075 | 1.947 | 5.14  |
| 17)       | Acenaphthene          | 1.255          | 1.229 | 1.243 | 1.217 | 1.350 | 1.298 | 1.315 | 1.272 | 3.89  |
| 18)       | Fluorene              | 1.602          | 1.581 | 1.635 | 1.611 | 1.779 | 1.721 | 1.752 | 1.669 | 4.80  |
|           |                       |                |       |       |       |       |       |       |       |       |
| 19) I     | Phenanthrene-d10      | -----ISTD----- |       |       |       |       |       |       |       |       |
| 20)       | 4,6-Dinitro-2-...     | 0.060          | 0.073 | 0.079 | 0.102 | 0.103 | 0.124 | 0.090 | 26.02 |       |
| 21)       | 4-Bromophenyl-...     | 0.243          | 0.246 | 0.250 | 0.247 | 0.262 | 0.261 | 0.259 | 0.253 | 3.13  |
| 22)       | Hexachlorobenzene     | 0.267          | 0.269 | 0.281 | 0.259 | 0.281 | 0.270 | 0.267 | 0.270 | 3.03  |
| 23)       | Atrazine              | 0.199          | 0.207 | 0.211 | 0.213 | 0.237 | 0.234 | 0.242 | 0.220 | 7.64  |
| 24)       | Pentachlorophenol     | 0.133          | 0.134 | 0.141 | 0.137 | 0.159 | 0.162 | 0.177 | 0.149 | 11.45 |
| 25)       | Phenanthrene          | 1.259          | 1.272 | 1.292 | 1.263 | 1.367 | 1.337 | 1.361 | 1.307 | 3.56  |
| 26)       | Anthracene            | 1.099          | 1.104 | 1.166 | 1.130 | 1.269 | 1.259 | 1.300 | 1.190 | 7.13  |
| 27) SURR  | Fluoranthene-d10      | 1.033          | 1.033 | 1.078 | 1.042 | 1.153 | 1.161 | 1.178 | 1.097 | 5.95  |
| 28)       | Fluoranthene          | 1.461          | 1.439 | 1.500 | 1.496 | 1.670 | 1.672 | 1.693 | 1.562 | 7.13  |
|           |                       |                |       |       |       |       |       |       |       |       |
| 29) I     | Chrysene-d12          | -----ISTD----- |       |       |       |       |       |       |       |       |
| 30)       | Pyrene                | 1.744          | 1.708 | 1.727 | 1.656 | 1.790 | 1.641 | 1.711 | 1.711 | 2.96  |
| 31) S     | Terphenyl-d14         | 0.897          | 0.844 | 0.871 | 0.822 | 0.891 | 0.816 | 0.848 | 0.856 | 3.73  |
| 32)       | Benzo(a)anthra...     | 1.463          | 1.432 | 1.485 | 1.438 | 1.594 | 1.521 | 1.609 | 1.506 | 4.77  |
| 33)       | Chrysene              | 1.655          | 1.559 | 1.616 | 1.532 | 1.653 | 1.560 | 1.576 | 1.593 | 3.05  |
| 34)       | Bis(2-ethylhex...     | 0.955          | 0.919 | 0.906 | 0.855 | 0.941 | 0.903 | 1.011 | 0.927 | 5.27  |
|           |                       |                |       |       |       |       |       |       |       |       |
| 35) I     | Perylene-d12          | -----ISTD----- |       |       |       |       |       |       |       |       |

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

Method File : 8270-SIM-BN051425.M

|       |                   |       |       |       |       |       |       |       |       |      |
|-------|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| 36)   | Indeno(1,2,3-c... | 1.511 | 1.613 | 1.645 | 1.568 | 1.687 | 1.732 | 1.680 | 1.634 | 4.65 |
| 37)   | Benzo(b)fluora... | 1.631 | 1.570 | 1.602 | 1.599 | 1.749 | 1.698 | 1.765 | 1.659 | 4.71 |
| 38)   | Benzo(k)fluora... | 1.539 | 1.538 | 1.642 | 1.601 | 1.770 | 1.661 | 1.719 | 1.639 | 5.34 |
| 39) C | Benzo(a)pyrene    | 1.380 | 1.343 | 1.381 | 1.331 | 1.486 | 1.444 | 1.486 | 1.407 | 4.59 |
| 40)   | Dibenzo(a,h)an... | 1.116 | 1.232 | 1.273 | 1.237 | 1.340 | 1.376 | 1.334 | 1.272 | 6.90 |
| 41)   | Benzo(g,h,i)pe... | 1.299 | 1.407 | 1.424 | 1.330 | 1.403 | 1.439 | 1.376 | 1.383 | 3.72 |

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

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN051425\  
 Data File : BN036999.D  
 Acq On : 13 May 2025 17:41  
 Operator : RC/JU  
 Sample : SSTDICC0.1  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC0.1

Quant Time: May 14 10:59:44 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN051425.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 14 10:57:36 2025  
 Response via : Initial Calibration

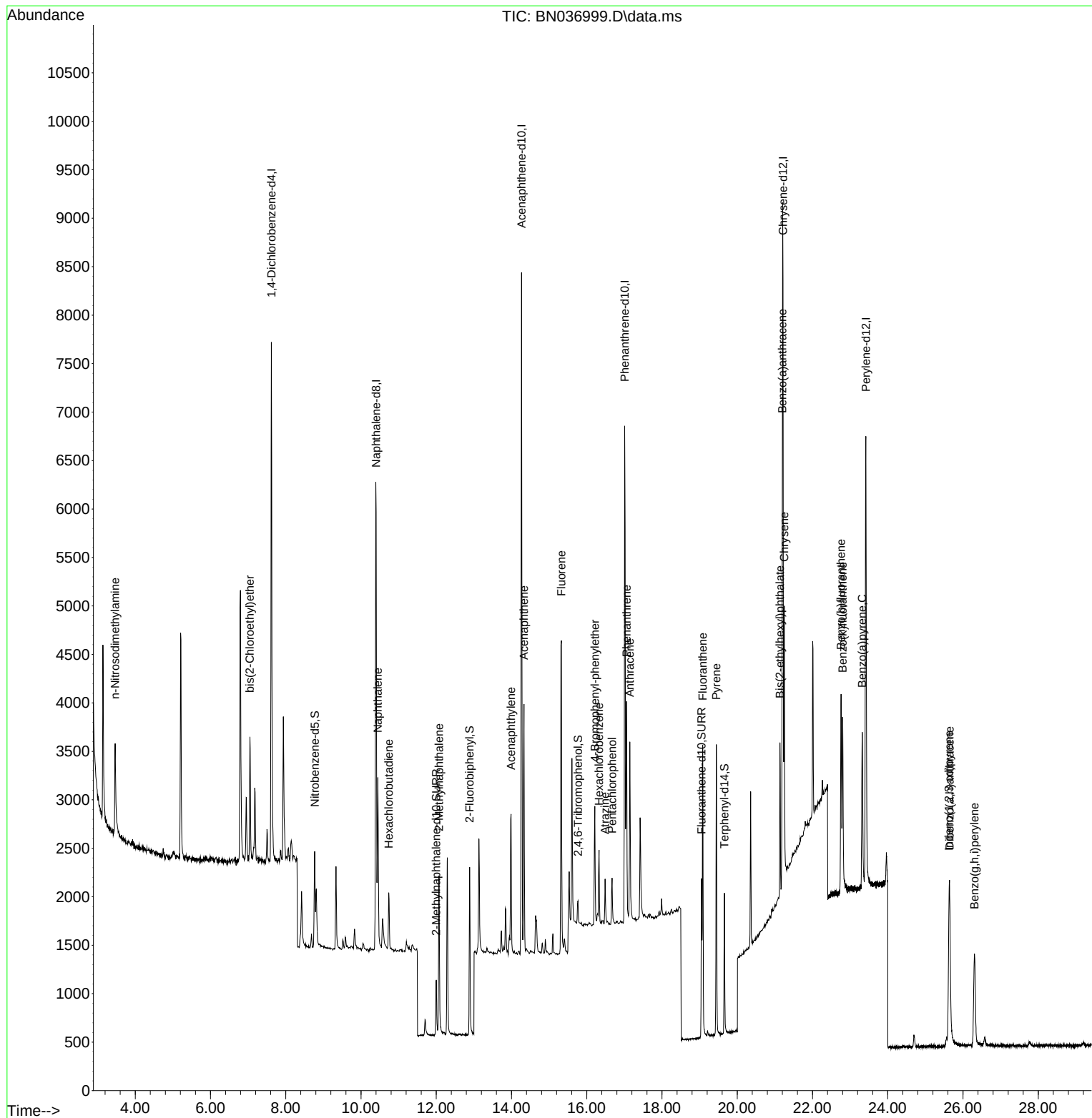
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.618  | 152  | 2512     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.404 | 136  | 6713     | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 14.267 | 164  | 3705     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 17.009 | 188  | 7492     | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 21.216 | 240  | 6297     | 0.400 | ng    | # 0.00   |
| 35) Perylene-d12              | 23.418 | 264  | 6037     | 0.400 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 0.000  | 112  | 0d       | 0.000 | ng    |          |
| 5) Phenol-d6                  | 0.000  | 99   | 0d       | 0.000 | ng    |          |
| 8) Nitrobenzene-d5            | 8.771  | 82   | 917      | 0.125 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 12.001 | 152  | 888      | 0.094 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.767 | 330  | 161      | 0.099 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.889 | 172  | 1771     | 0.104 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 19.049 | 212  | 1934     | 0.094 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.658 | 244  | 1412     | 0.105 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| Target Compounds              |        |      |          |       |       | Qvalue   |
| 3) n-Nitrosodimethylamine     | 3.466  | 42   | 920      | 0.139 | ng    | # 94     |
| 6) bis(2-Chloroethyl)ether    | 7.048  | 93   | 905      | 0.119 | ng    | 98       |
| 9) Naphthalene                | 10.447 | 128  | 2225     | 0.112 | ng    | 97       |
| 10) Hexachlorobutadiene       | 10.735 | 225  | 480      | 0.115 | ng    | # 100    |
| 12) 2-Methylnaphthalene       | 12.072 | 142  | 1266     | 0.099 | ng    | 98       |
| 16) Acenaphthylene            | 13.989 | 152  | 1765     | 0.098 | ng    | 99       |
| 17) Acenaphthene              | 14.331 | 154  | 1162     | 0.099 | ng    | 99       |
| 18) Fluorene                  | 15.325 | 166  | 1484     | 0.096 | ng    | 99       |
| 21) 4-Bromophenyl-phenylether | 16.214 | 248  | 455      | 0.096 | ng    | 98       |
| 22) Hexachlorobenzene         | 16.326 | 284  | 500      | 0.099 | ng    | 97       |
| 23) Atrazine                  | 16.487 | 200  | 372      | 0.090 | ng    | # 93     |
| 24) Pentachlorophenol         | 16.674 | 266  | 249      | 0.088 | ng    | 97       |
| 25) Phenanthrene              | 17.058 | 178  | 2359     | 0.096 | ng    | 99       |
| 26) Anthracene                | 17.145 | 178  | 2059     | 0.092 | ng    | 99       |
| 28) Fluoranthene              | 19.082 | 202  | 2737     | 0.094 | ng    | 100      |
| 30) Pyrene                    | 19.444 | 202  | 2745     | 0.102 | ng    | 100      |
| 32) Benzo(a)anthracene        | 21.198 | 228  | 2303     | 0.097 | ng    | 96       |
| 33) Chrysene                  | 21.251 | 228  | 2605     | 0.104 | ng    | 97       |
| 34) Bis(2-ethylhexyl)phtha... | 21.135 | 149  | 1504     | 0.103 | ng    | 99       |
| 36) Indeno(1,2,3-cd)pyrene    | 25.629 | 276  | 2280     | 0.092 | ng    | 97       |
| 37) Benzo(b)fluoranthene      | 22.758 | 252  | 2461     | 0.098 | ng    | # 75     |
| 38) Benzo(k)fluoranthene      | 22.801 | 252  | 2322     | 0.094 | ng    | # 73     |
| 39) Benzo(a)pyrene            | 23.322 | 252  | 2083     | 0.098 | ng    | # 62     |
| 40) Dibenzo(a,h)anthracene    | 25.646 | 278  | 1685     | 0.088 | ng    | # 78     |
| 41) Benzo(g,h,i)perylene      | 26.304 | 276  | 1960     | 0.094 | ng    | # 87     |
| -----                         |        |      |          |       |       |          |

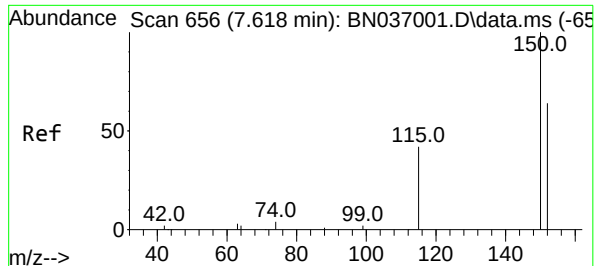
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN051425\  
Data File : BN036999.D  
Acq On : 13 May 2025 17:41  
Operator : RC/JU  
Sample : SSTDICC0.1  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

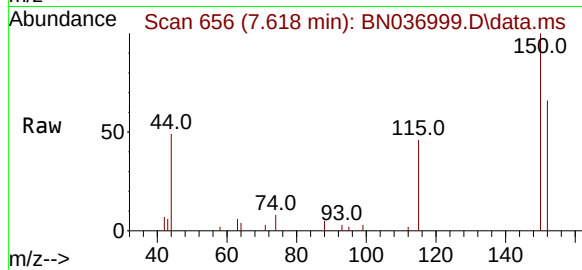
Quant Time: May 14 10:59:44 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN051425.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed May 14 10:57:36 2025  
Response via : Initial Calibration



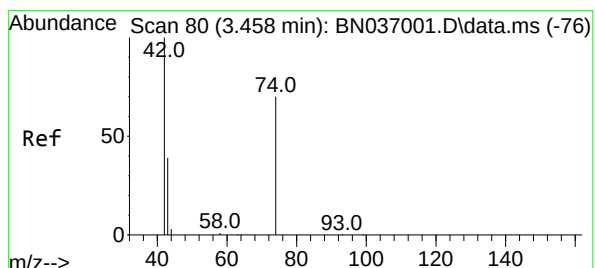
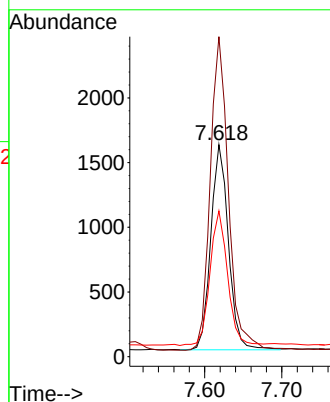
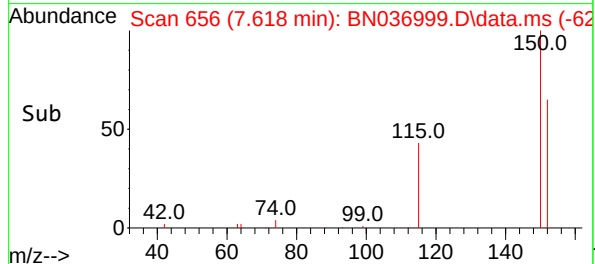


#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.618 min Scan# 61  
Delta R.T. 0.000 min  
Lab File: BN036999.D  
Acq: 13 May 2025 17:41

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

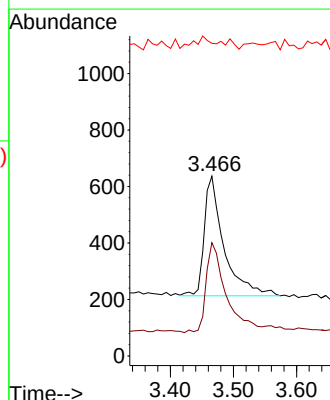
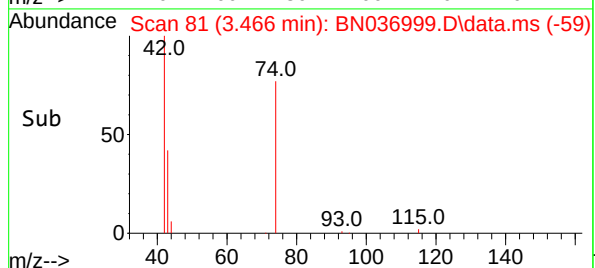
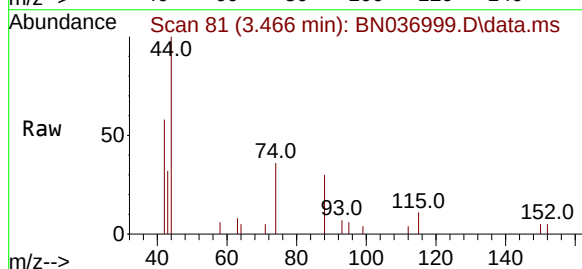


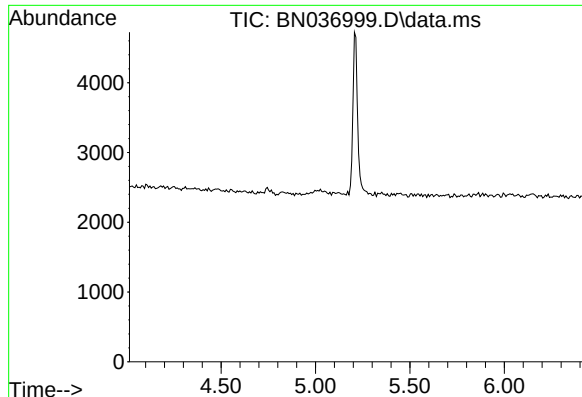
Tgt Ion:152 Resp: 2512  
Ion Ratio Lower Upper  
152 100  
150 150.9 123.9 185.9  
115 68.7 55.8 83.8



#3  
n-Nitrosodimethylamine  
Concen: 0.139 ng  
RT: 3.466 min Scan# 81  
Delta R.T. 0.007 min  
Lab File: BN036999.D  
Acq: 13 May 2025 17:41

Tgt Ion: 42 Resp: 920  
Ion Ratio Lower Upper  
42 100  
74 76.3 59.8 89.6  
44 4.1 11.9 17.9#

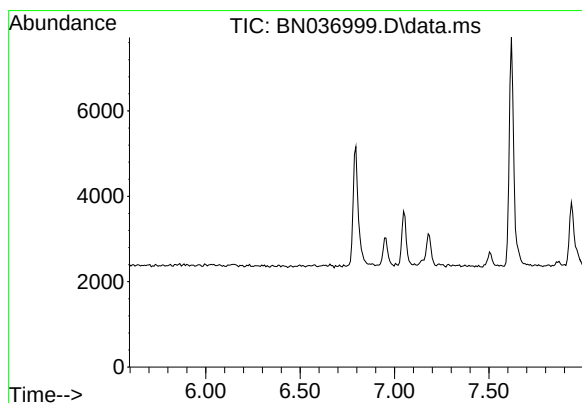
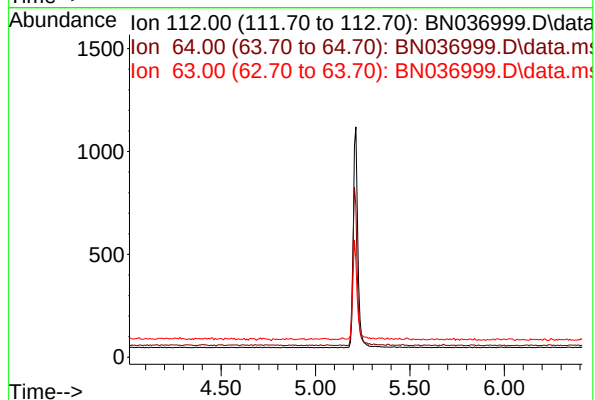




#4  
2-Fluorophenol  
Concen: 0.000 ng  
Expected RT: 5.21 min  
  
Lab File: BN036999.D  
Acq: 13 May 2025 17:41

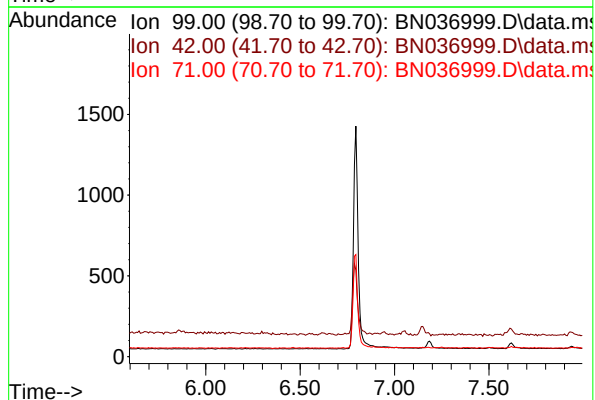
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

Tgt Ion: 112  
Sig Exp Ratio  
112 100  
64 69.6  
63 43.2

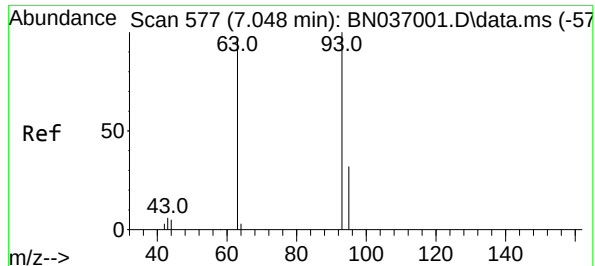


#5  
Phenol-d6  
Concen: 0.000 ng  
Expected RT: 6.79 min  
  
Lab File: BN036999.D  
Acq: 13 May 2025 17:41

Tgt Ion: 99  
Sig Exp Ratio  
99 100  
42 36.6  
71 44.6



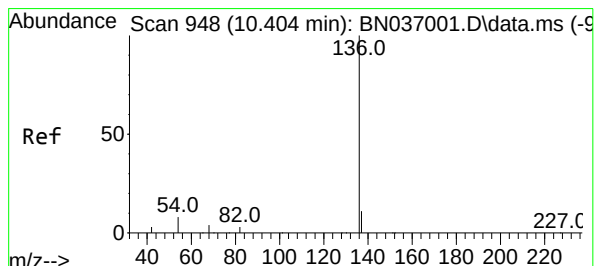
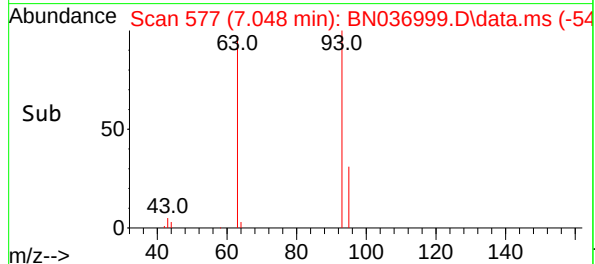
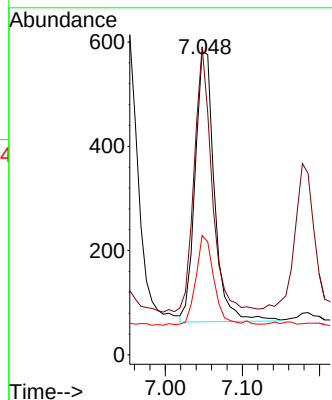
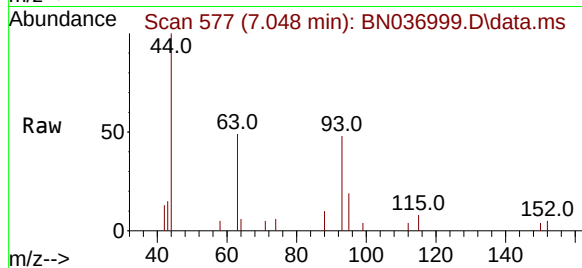




#6  
bis(2-chloroethyl)ether  
Concen: 0.119 ng  
RT: 7.048 min Scan# 577  
Delta R.T. 0.000 min  
Lab File: BN036999.D  
Acq: 13 May 2025 17:41

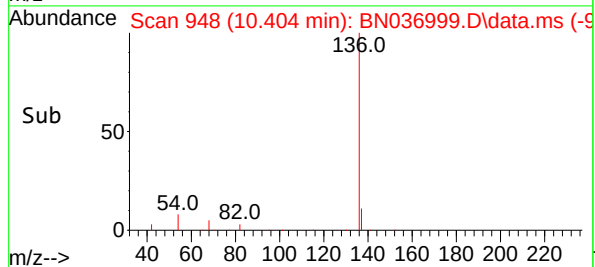
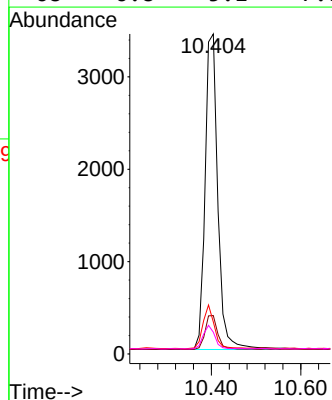
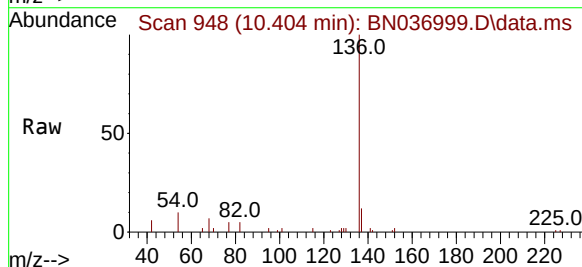
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

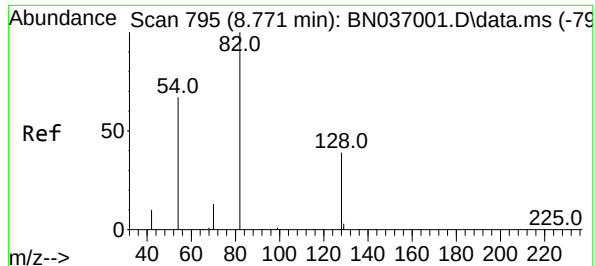
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 93      | 100   |       |       |
| 63      | 90.2  | 70.1  | 105.1 |
| 95      | 32.2  | 26.2  | 39.2  |



#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.404 min Scan# 948  
Delta R.T. 0.000 min  
Lab File: BN036999.D  
Acq: 13 May 2025 17:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 136     | 100   |       |       |
| 137     | 12.0  | 10.4  | 15.6  |
| 54      | 10.0  | 8.5   | 12.7  |
| 68      | 6.8   | 5.1   | 7.7   |

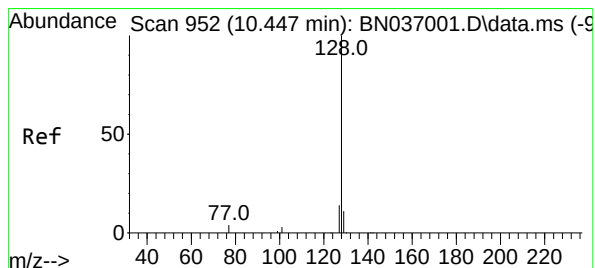
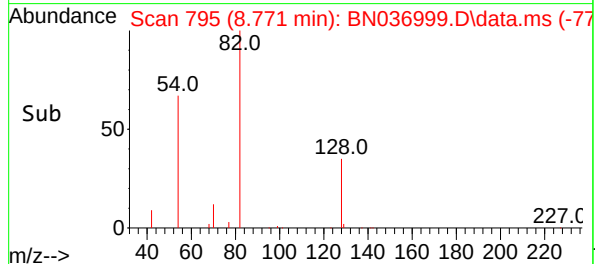
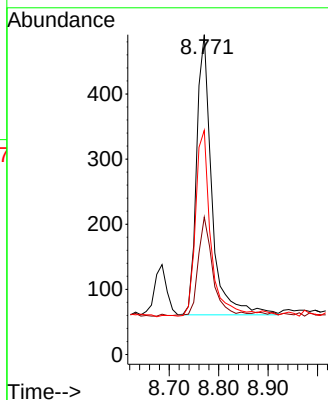
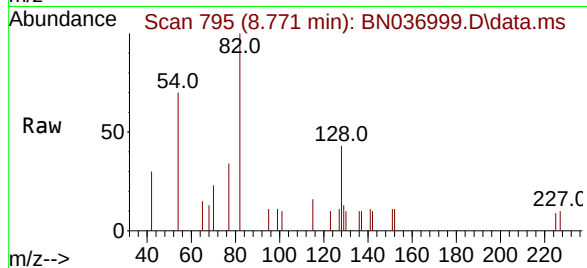




#8  
Nitrobenzene-d5  
Concen: 0.125 ng  
RT: 8.771 min Scan# 795  
Delta R.T. 0.000 min  
Lab File: BN036999.D  
Acq: 13 May 2025 17:41

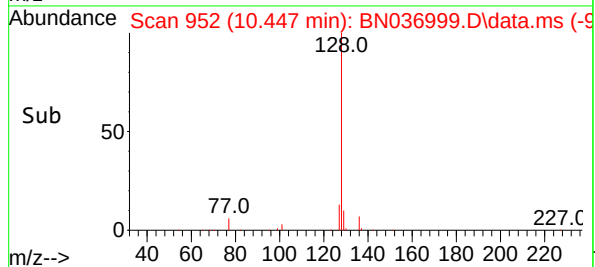
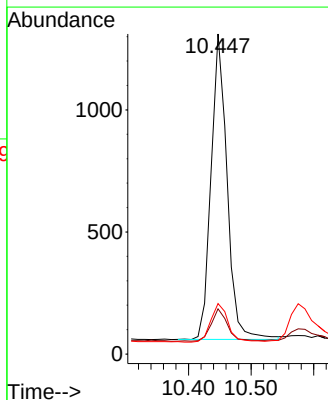
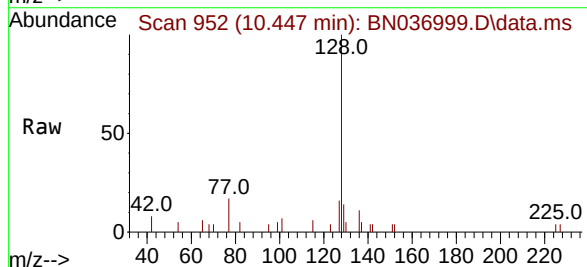
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

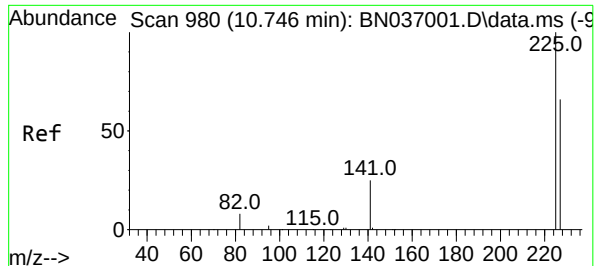
| Tgt Ion: | 82    | Resp: | 917   |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 43.0  | 34.0  | 51.0  |
| 54       | 70.1  | 55.0  | 82.4  |



#9  
Naphthalene  
Concen: 0.112 ng  
RT: 10.447 min Scan# 952  
Delta R.T. 0.000 min  
Lab File: BN036999.D  
Acq: 13 May 2025 17:41

| Tgt Ion: | 128   | Resp: | 2225  |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 129      | 14.1  | 9.7   | 14.5  |
| 127      | 15.8  | 12.4  | 18.6  |

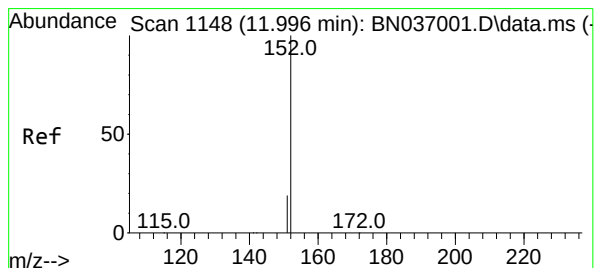
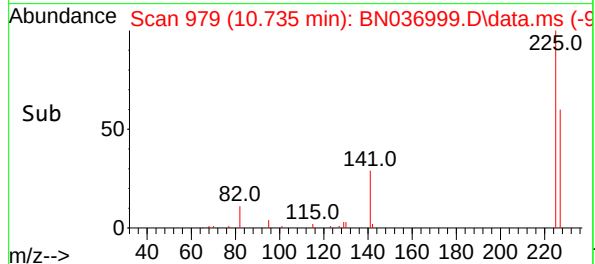
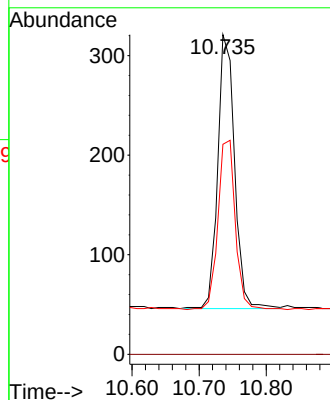
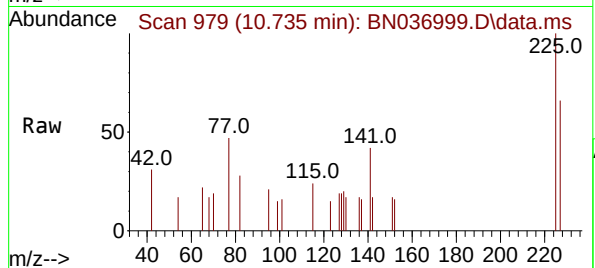




#10  
Hexachlorobutadiene  
Concen: 0.115 ng  
RT: 10.735 min Scan# 91  
Delta R.T. -0.011 min  
Lab File: BN036999.D  
Acq: 13 May 2025 17:41

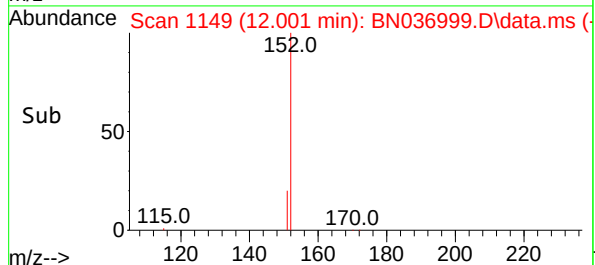
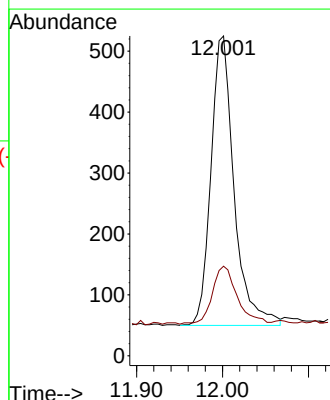
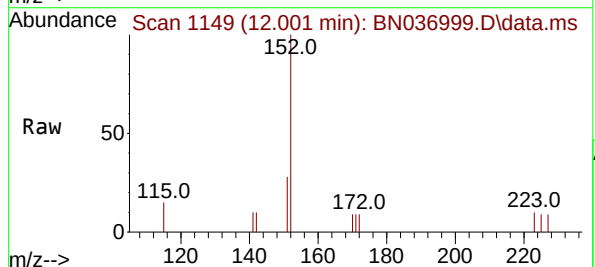
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

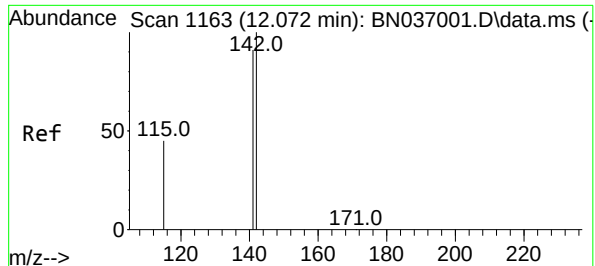
Tgt Ion:225 Resp: 480  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 64.0 50.9 76.3



#11  
2-Methylnaphthalene-d10  
Concen: 0.094 ng  
RT: 12.001 min Scan# 1149  
Delta R.T. 0.005 min  
Lab File: BN036999.D  
Acq: 13 May 2025 17:41

Tgt Ion:152 Resp: 888  
Ion Ratio Lower Upper  
152 100  
151 21.6 17.5 26.3

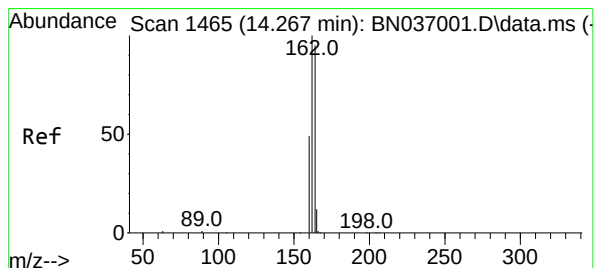
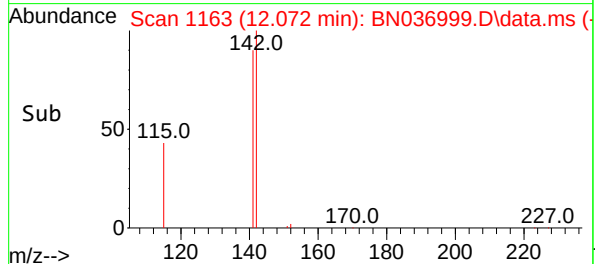
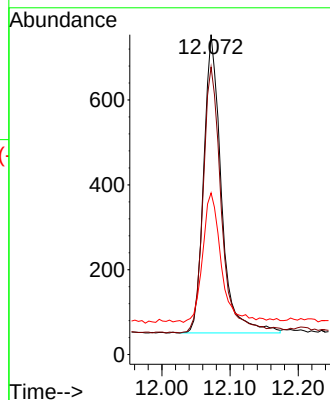
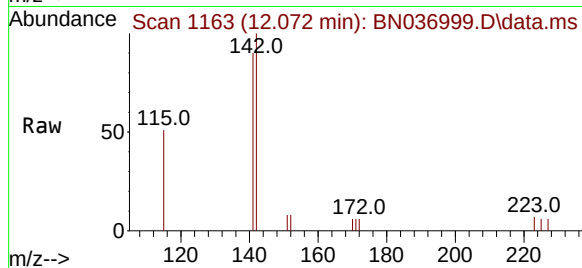




#12  
2-Methylnaphthalene  
Concen: 0.099 ng  
RT: 12.072 min Scan# 1163  
Delta R.T. 0.000 min  
Lab File: BN036999.D  
Acq: 13 May 2025 17:41

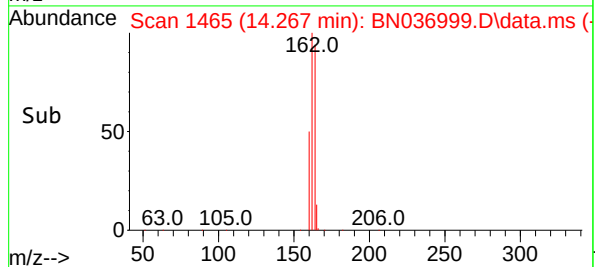
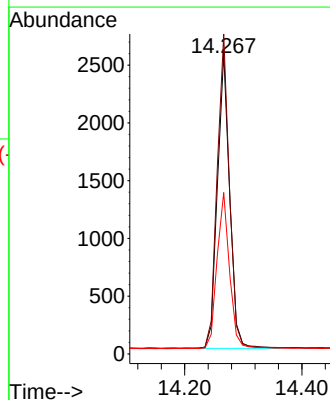
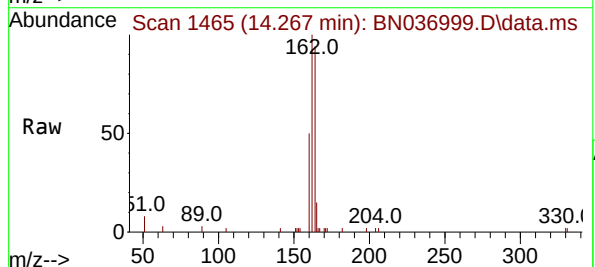
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

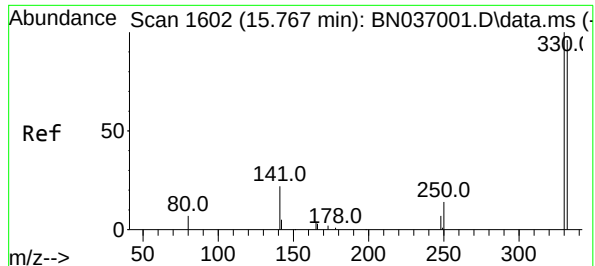
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 89.9  | 73.3  | 109.9 |
| 115     | 50.5  | 38.4  | 57.6  |



#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.267 min Scan# 1465  
Delta R.T. 0.000 min  
Lab File: BN036999.D  
Acq: 13 May 2025 17:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 106.3 | 84.2  | 126.4 |
| 160     | 53.6  | 42.6  | 63.8  |

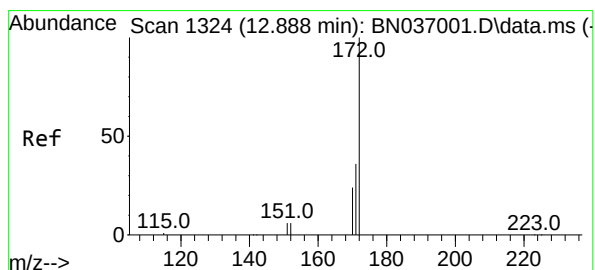
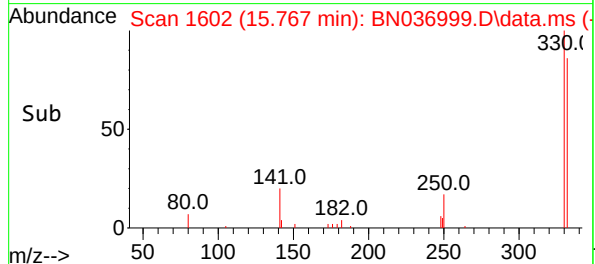
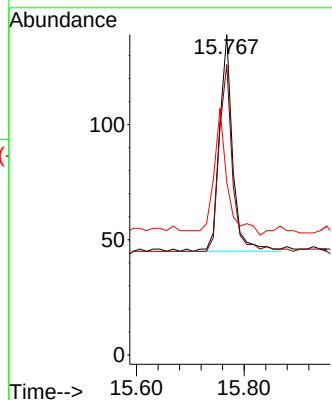
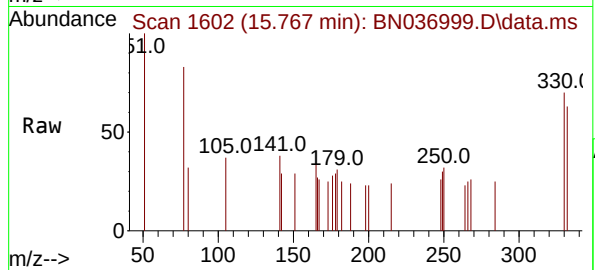




#14  
2,4,6-Tribromophenol  
Concen: 0.099 ng  
RT: 15.767 min Scan# 1602  
Delta R.T. 0.000 min  
Lab File: BN036999.D  
Acq: 13 May 2025 17:41

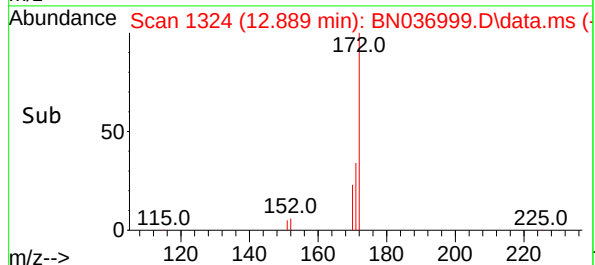
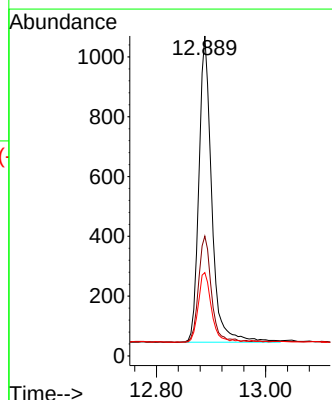
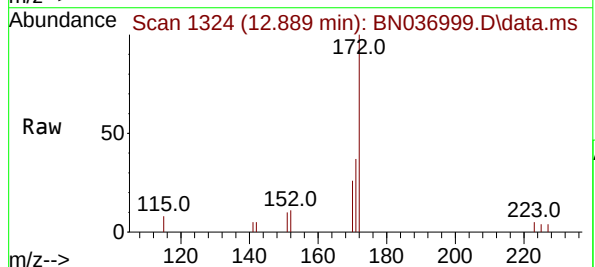
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

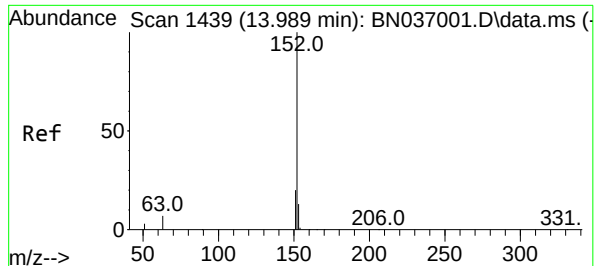
Tgt Ion:330 Resp: 161  
Ion Ratio Lower Upper  
330 100  
332 87.0 73.8 110.8  
141 60.2 43.9 65.9



#15  
2-Fluorobiphenyl  
Concen: 0.104 ng  
RT: 12.889 min Scan# 1324  
Delta R.T. 0.000 min  
Lab File: BN036999.D  
Acq: 13 May 2025 17:41

Tgt Ion:172 Resp: 1771  
Ion Ratio Lower Upper  
172 100  
171 37.5 29.2 43.8  
170 26.1 20.5 30.7

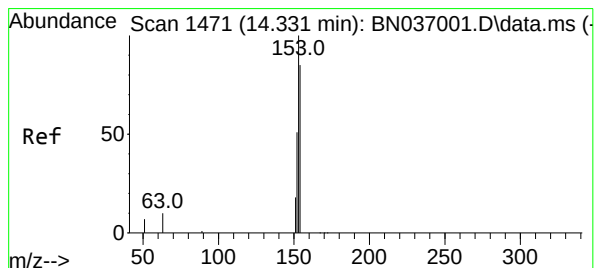
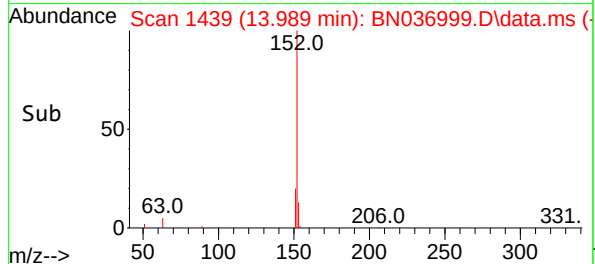
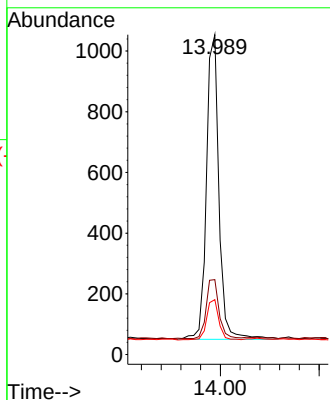
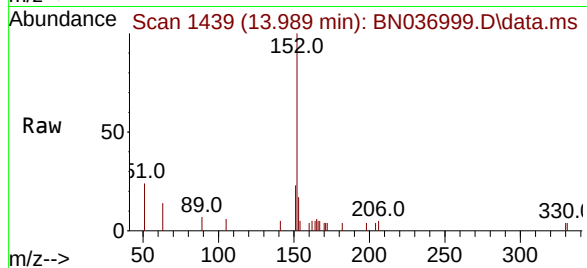




#16  
Acenaphthylene  
Concen: 0.098 ng  
RT: 13.989 min Scan# 1439  
Delta R.T. 0.000 min  
Lab File: BN036999.D  
Acq: 13 May 2025 17:41

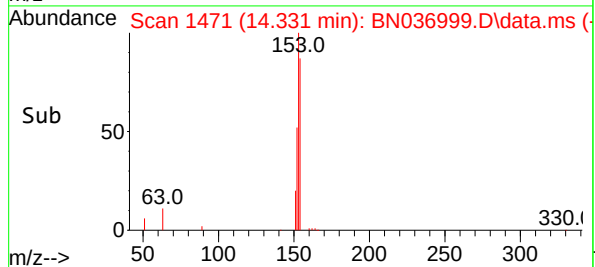
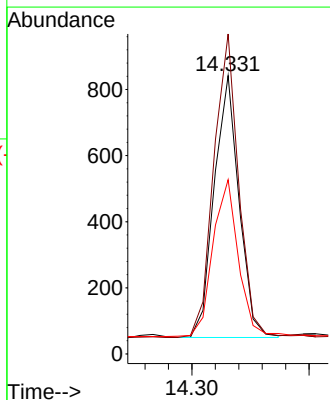
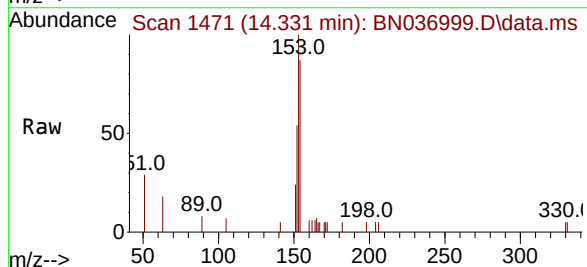
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

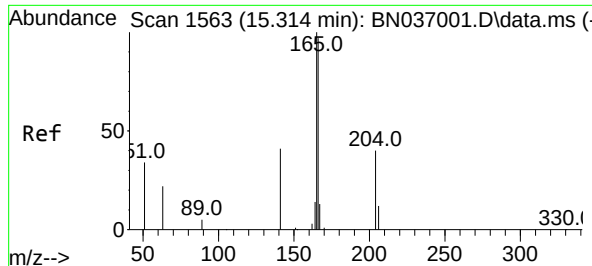
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 19.6  | 16.1  | 24.1  |
| 153     | 12.5  | 10.5  | 15.7  |



#17  
Acenaphthene  
Concen: 0.099 ng  
RT: 14.331 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: BN036999.D  
Acq: 13 May 2025 17:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 117.2 | 94.2  | 141.4 |
| 152     | 62.1  | 49.4  | 74.0  |

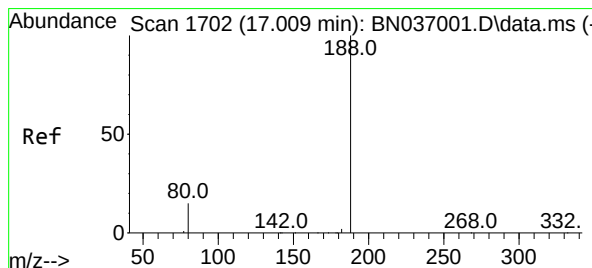
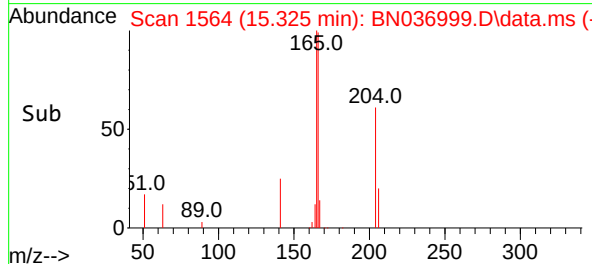
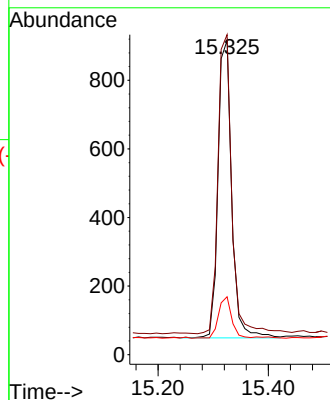
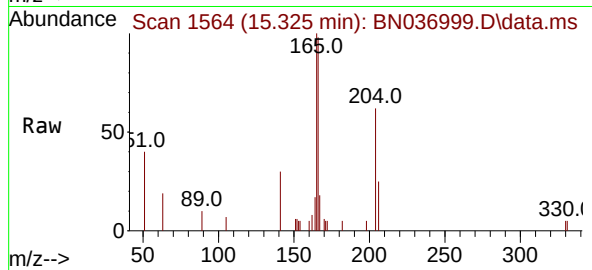




#18  
Fluorene  
Concen: 0.096 ng  
RT: 15.325 min Scan# 1564  
Delta R.T. 0.011 min  
Lab File: BN036999.D  
Acq: 13 May 2025 17:41

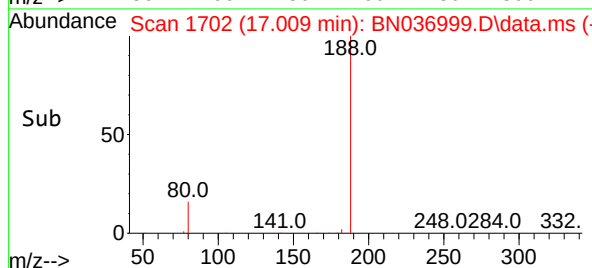
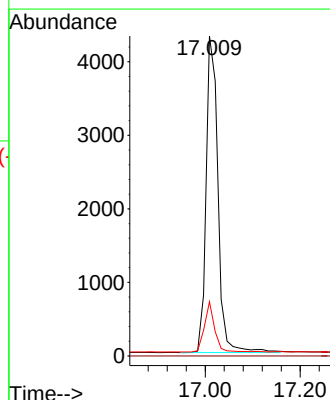
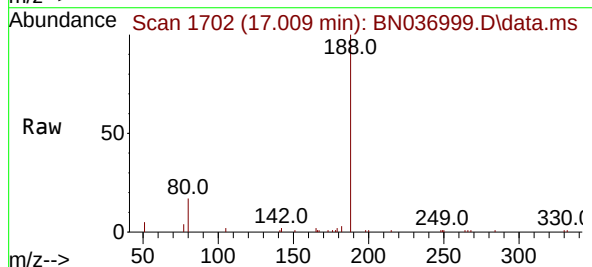
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

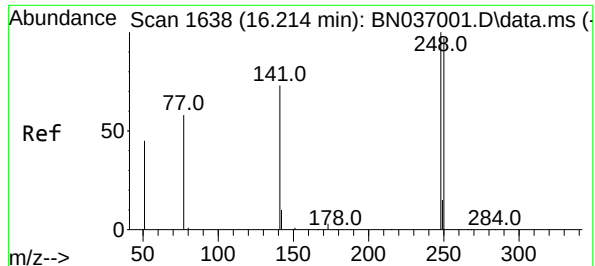
Tgt Ion:166 Resp: 1484  
Ion Ratio Lower Upper  
166 100  
165 102.0 80.6 120.8  
167 13.3 10.6 16.0



#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 17.009 min Scan# 1702  
Delta R.T. 0.000 min  
Lab File: BN036999.D  
Acq: 13 May 2025 17:41

Tgt Ion:188 Resp: 7492  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 16.9 13.4 20.0

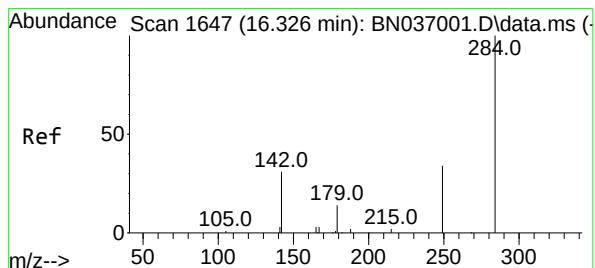
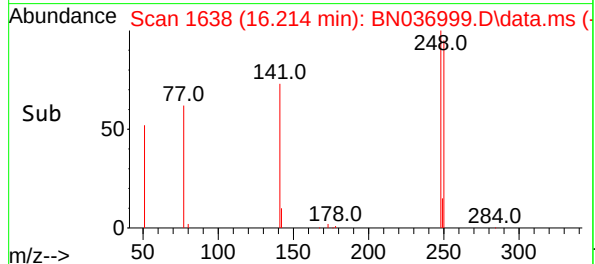
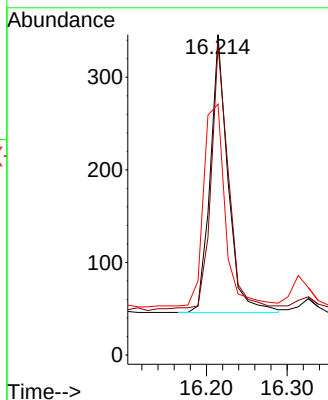
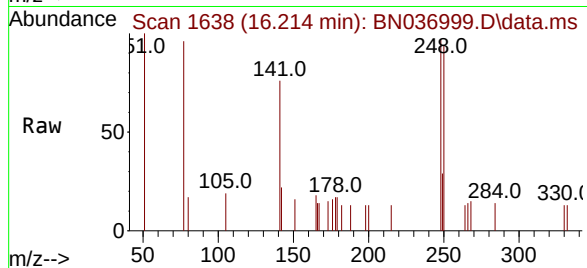




#21  
4-Bromophenyl-phenylether  
Concen: 0.096 ng  
RT: 16.214 min Scan# 1638  
Delta R.T. 0.000 min  
Lab File: BN036999.D  
Acq: 13 May 2025 17:41

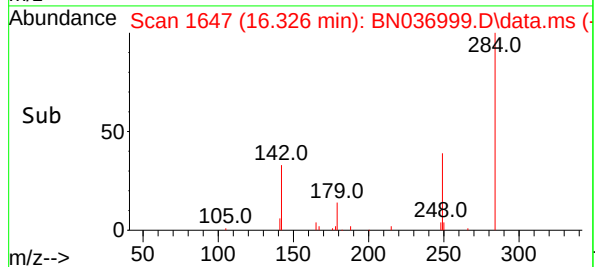
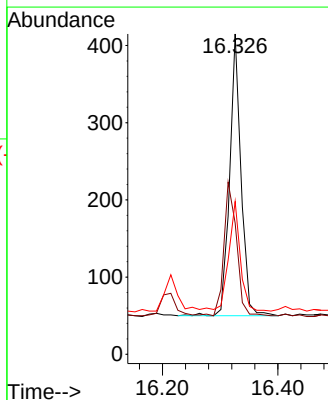
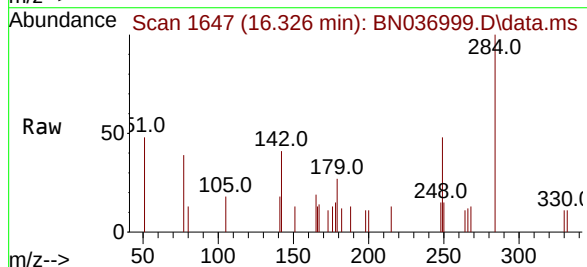
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 248     | 100   |       |       |
| 250     | 96.8  | 78.1  | 117.1 |
| 141     | 78.3  | 59.7  | 89.5  |

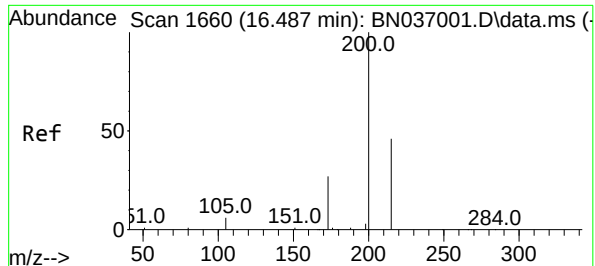


#22  
Hexachlorobenzene  
Concen: 0.099 ng  
RT: 16.326 min Scan# 1647  
Delta R.T. 0.000 min  
Lab File: BN036999.D  
Acq: 13 May 2025 17:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 284     | 100   |       |       |
| 142     | 52.2  | 41.2  | 61.8  |
| 249     | 40.0  | 28.7  | 43.1  |



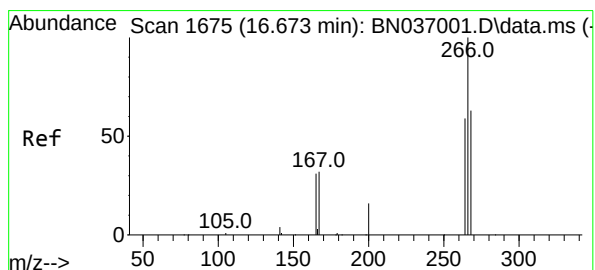
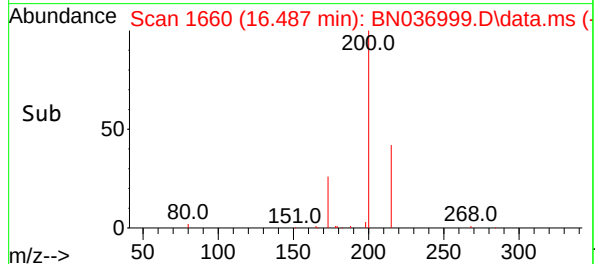
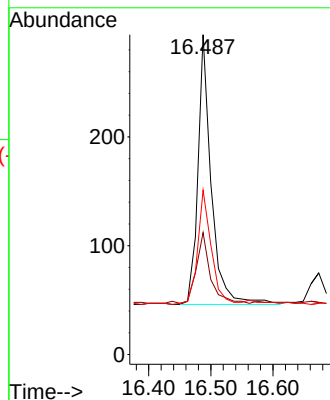
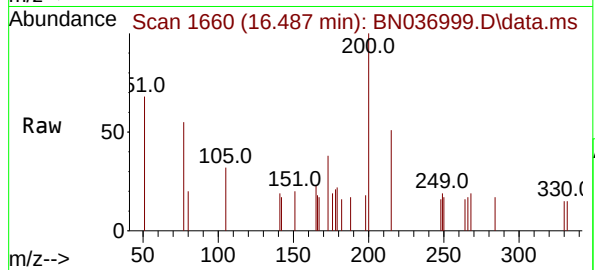




#23  
Atrazine  
Concen: 0.090 ng  
RT: 16.487 min Scan# 1660  
Delta R.T. 0.000 min  
Lab File: BN036999.D  
Acq: 13 May 2025 17:41

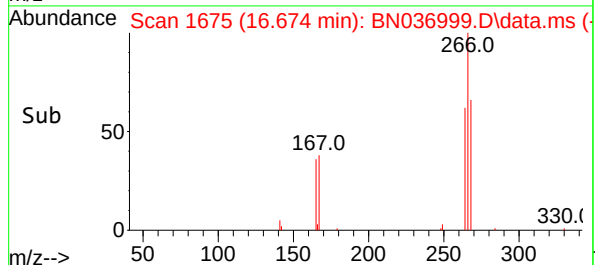
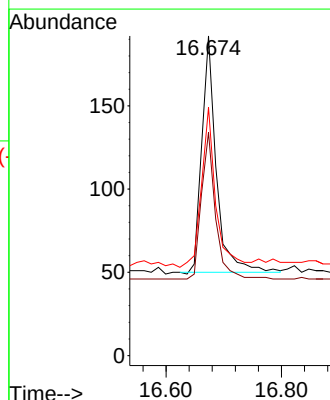
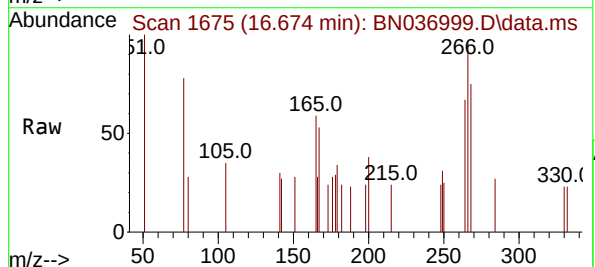
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

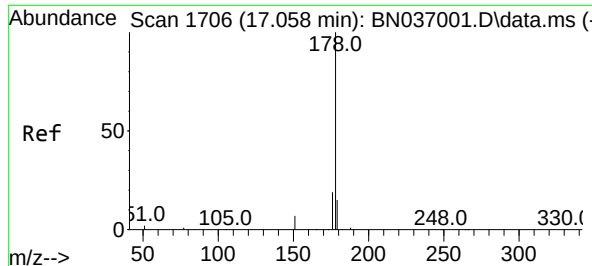
Tgt Ion:200 Resp: 372  
Ion Ratio Lower Upper  
200 100  
173 38.1 25.2 37.8#  
215 51.4 39.3 58.9



#24  
Pentachlorophenol  
Concen: 0.088 ng  
RT: 16.674 min Scan# 1675  
Delta R.T. 0.000 min  
Lab File: BN036999.D  
Acq: 13 May 2025 17:41

Tgt Ion:266 Resp: 249  
Ion Ratio Lower Upper  
266 100  
264 59.8 47.9 71.9  
268 66.7 50.0 75.0

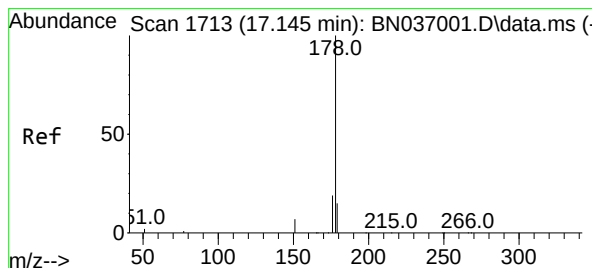
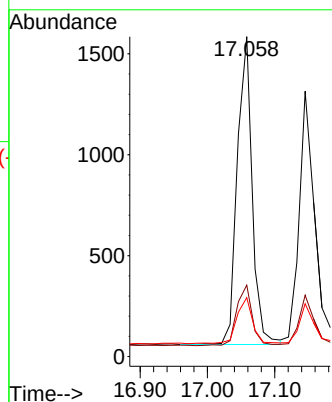
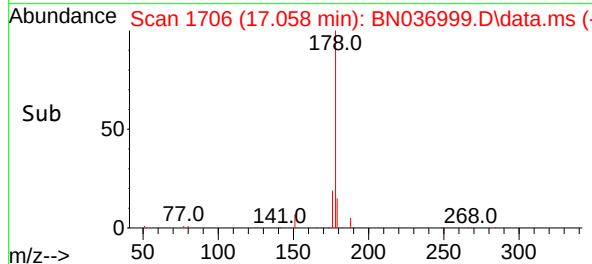
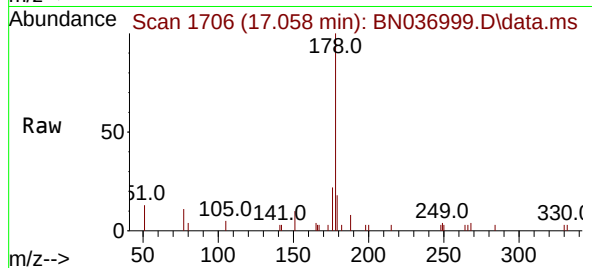




#25  
Phenanthrene  
Concen: 0.096 ng  
RT: 17.058 min Scan# 1706  
Delta R.T. 0.000 min  
Lab File: BN036999.D  
Acq: 13 May 2025 17:41

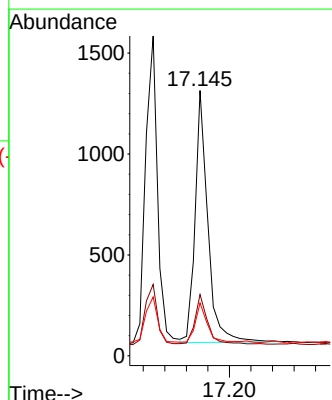
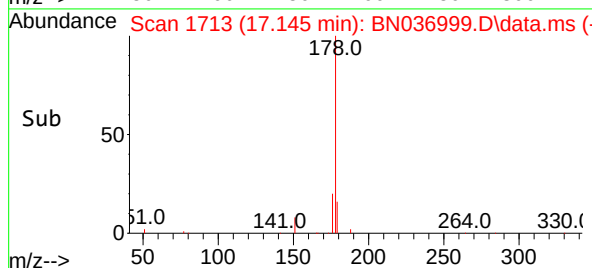
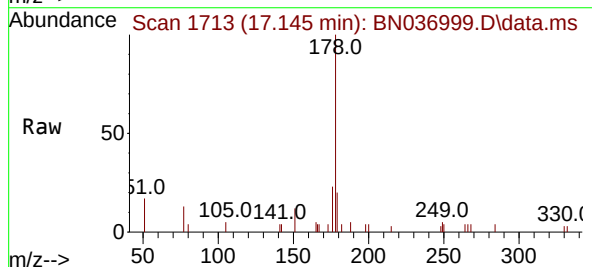
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

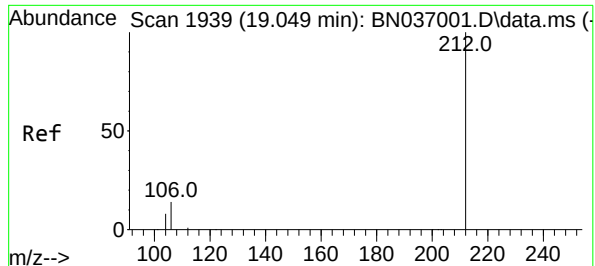
Tgt Ion:178 Resp: 2359  
Ion Ratio Lower Upper  
178 100  
176 20.3 15.7 23.5  
179 15.7 12.2 18.2



#26  
Anthracene  
Concen: 0.092 ng  
RT: 17.145 min Scan# 1713  
Delta R.T. 0.000 min  
Lab File: BN036999.D  
Acq: 13 May 2025 17:41

Tgt Ion:178 Resp: 2059  
Ion Ratio Lower Upper  
178 100  
176 19.9 15.0 22.6  
179 15.3 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.094 ng

RT: 19.049 min Scan# 1939

Delta R.T. 0.000 min

Lab File: BN036999.D

Acq: 13 May 2025 17:41

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.1

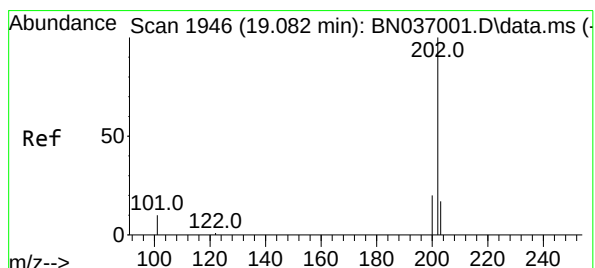
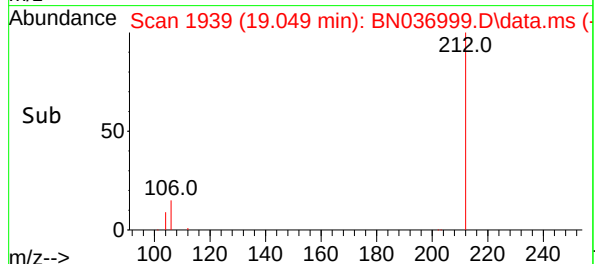
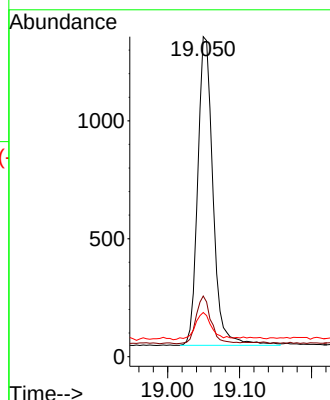
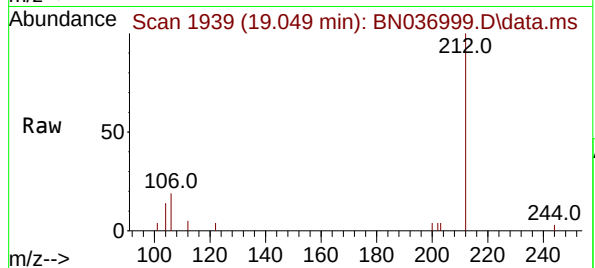
Tgt Ion:212 Resp: 1934

Ion Ratio Lower Upper

212 100

106 15.0 11.3 16.9

104 9.6 6.7 10.1



#28

Fluoranthene

Concen: 0.094 ng

RT: 19.082 min Scan# 1946

Delta R.T. 0.000 min

Lab File: BN036999.D

Acq: 13 May 2025 17:41

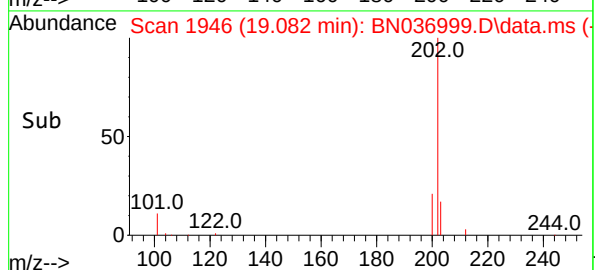
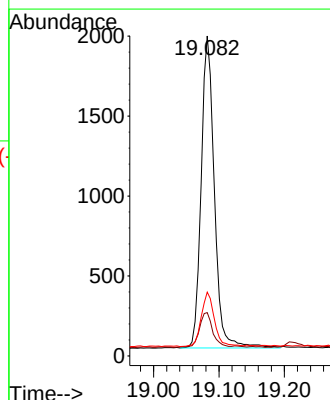
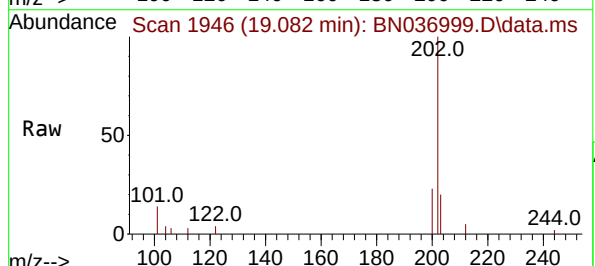
Tgt Ion:202 Resp: 2737

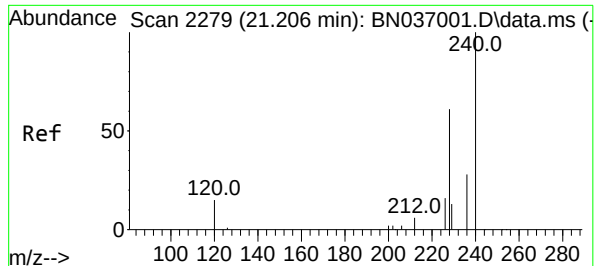
Ion Ratio Lower Upper

202 100

101 11.4 8.9 13.3

203 17.3 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.216 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN036999.D

Acq: 13 May 2025 17:41

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.1

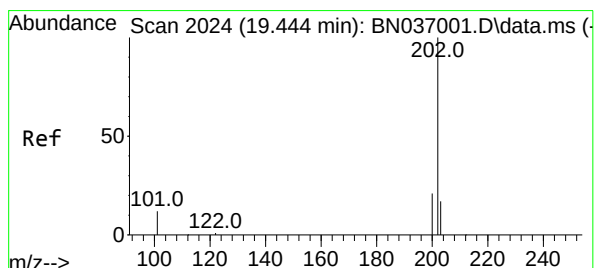
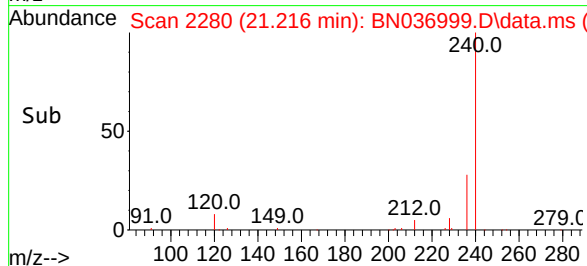
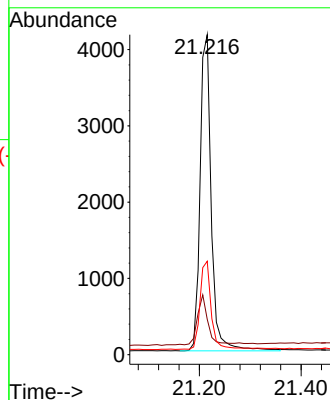
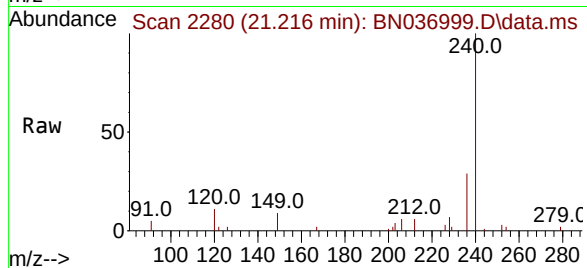
Tgt Ion:240 Resp: 6297

Ion Ratio Lower Upper

240 100

120 11.0 15.1 22.7#

236 29.2 24.0 36.0



#30

Pyrene

Concen: 0.102 ng

RT: 19.444 min Scan# 2024

Delta R.T. 0.000 min

Lab File: BN036999.D

Acq: 13 May 2025 17:41

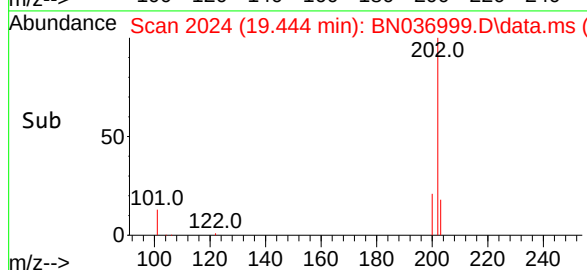
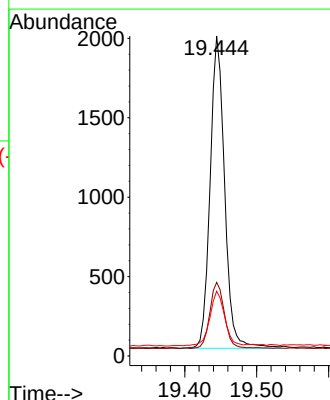
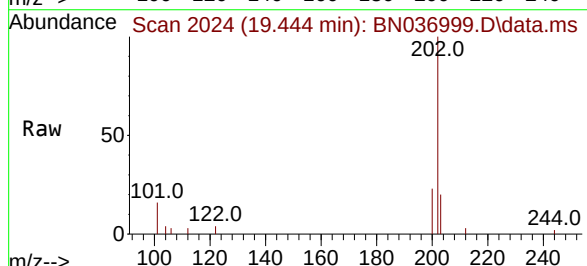
Tgt Ion:202 Resp: 2745

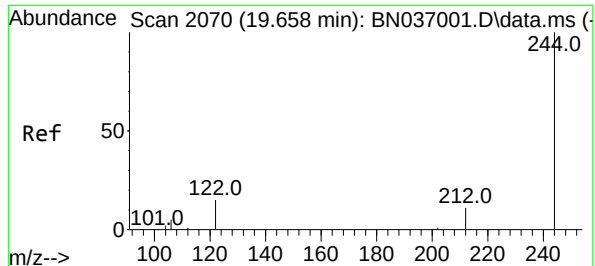
Ion Ratio Lower Upper

202 100

200 21.3 17.1 25.7

203 18.1 14.2 21.4

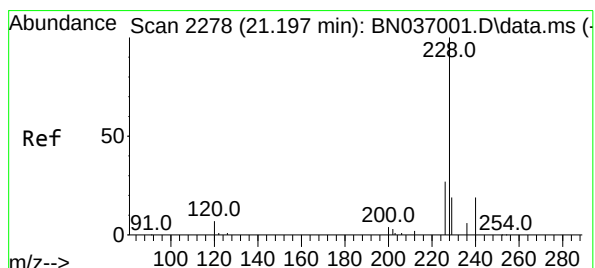
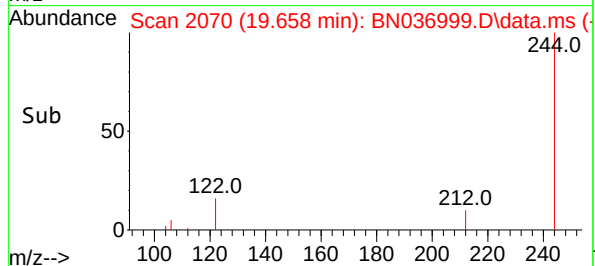
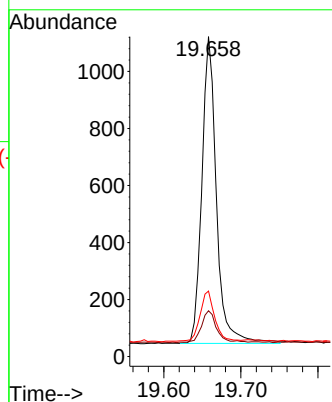
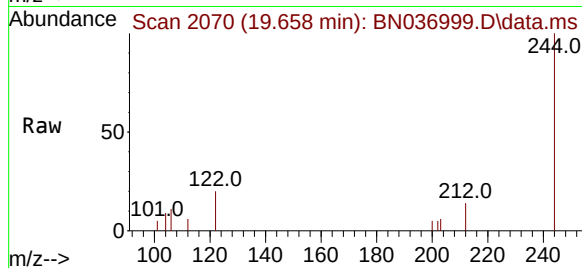




#31  
Terphenyl-d14  
Concen: 0.105 ng  
RT: 19.658 min Scan# 2070  
Delta R.T. 0.000 min  
Lab File: BN036999.D  
Acq: 13 May 2025 17:41

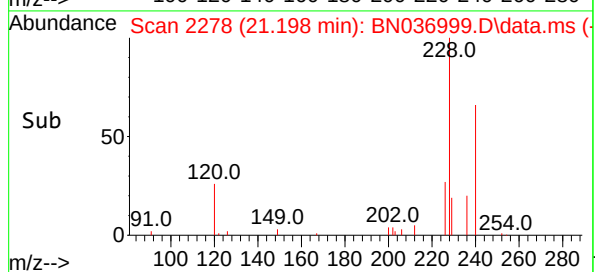
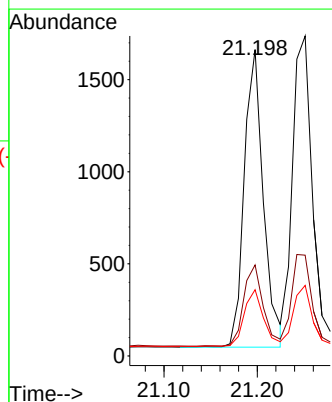
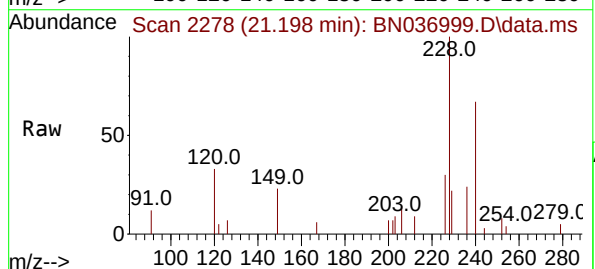
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

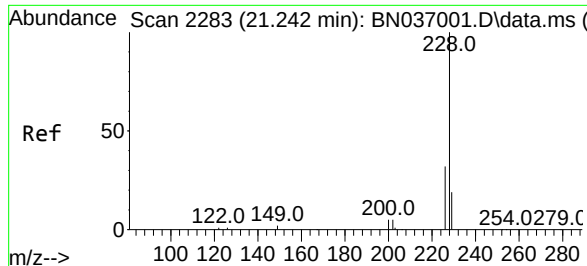
Tgt Ion:244 Resp: 1412  
Ion Ratio Lower Upper  
244 100  
212 14.3 9.7 14.5  
122 20.5 13.4 20.0#



#32  
Benzo(a)anthracene  
Concen: 0.097 ng  
RT: 21.198 min Scan# 2278  
Delta R.T. 0.000 min  
Lab File: BN036999.D  
Acq: 13 May 2025 17:41

Tgt Ion:228 Resp: 2303  
Ion Ratio Lower Upper  
228 100  
226 29.7 22.2 33.4  
229 21.6 16.0 24.0





#33

Chrysene

Concen: 0.104 ng

RT: 21.251 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN036999.D

Acq: 13 May 2025 17:41

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.1

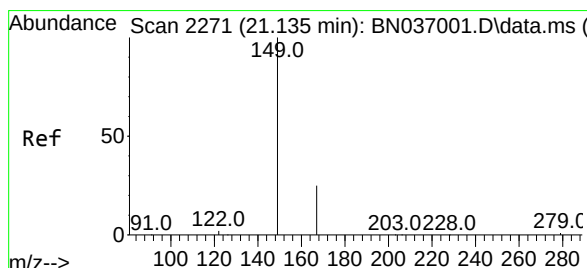
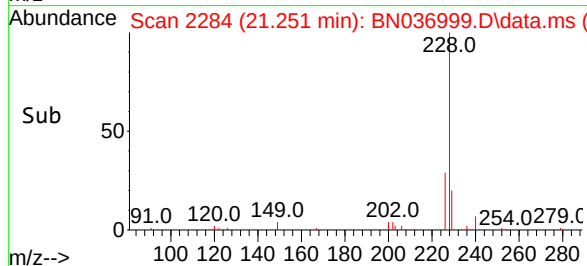
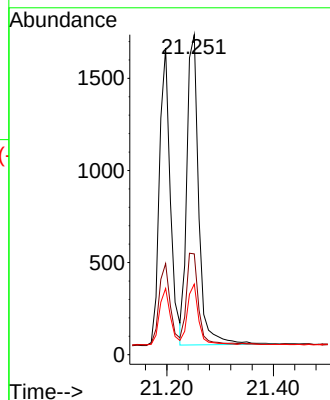
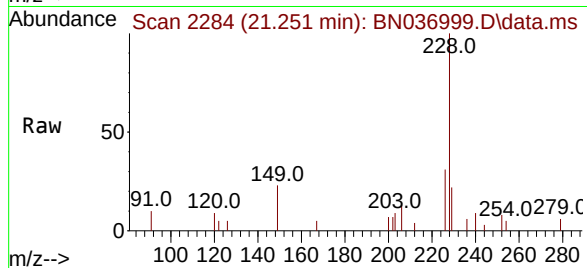
Tgt Ion:228 Resp: 2605

Ion Ratio Lower Upper

228 100

226 31.5 26.3 39.5

229 22.0 16.2 24.2



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.103 ng

RT: 21.135 min Scan# 2271

Delta R.T. 0.000 min

Lab File: BN036999.D

Acq: 13 May 2025 17:41

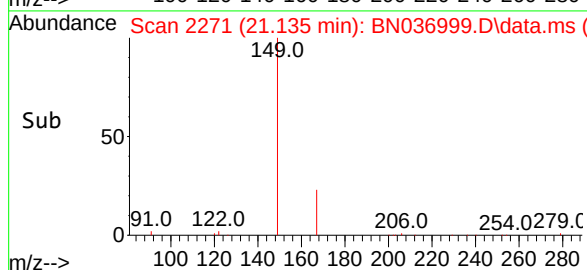
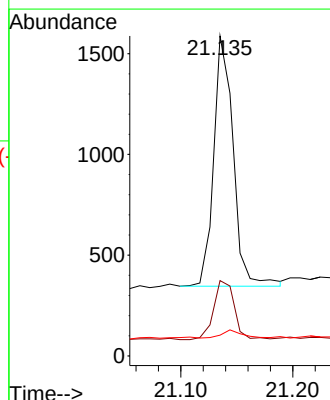
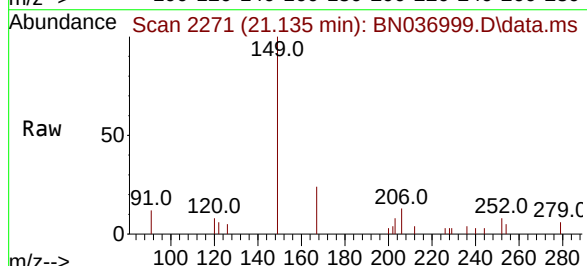
Tgt Ion:149 Resp: 1504

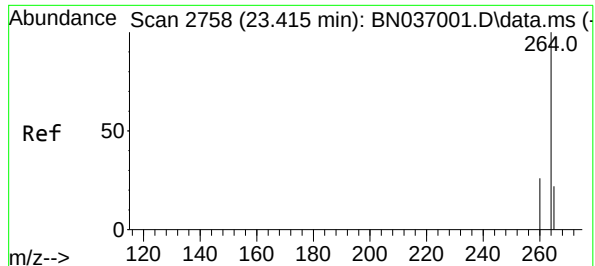
Ion Ratio Lower Upper

149 100

167 25.1 20.6 30.8

279 3.1 2.6 3.8





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.418 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN036999.D

Acq: 13 May 2025 17:41

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.1

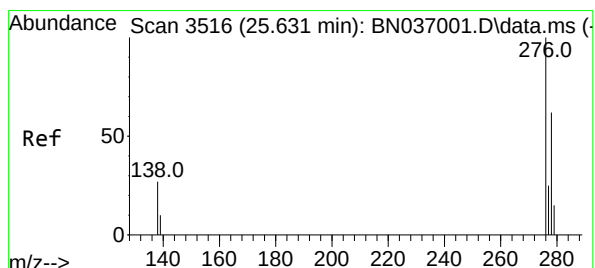
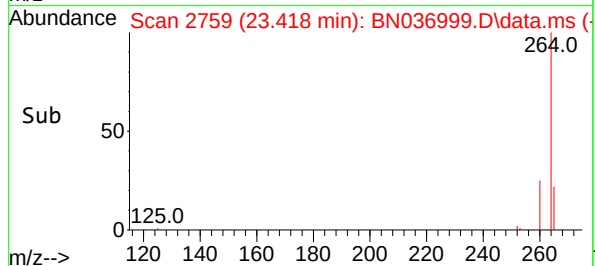
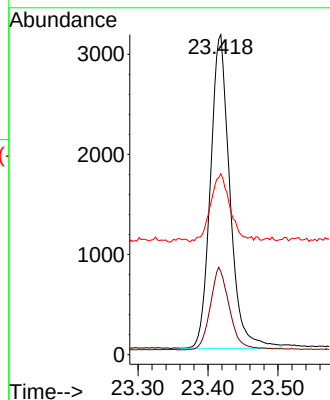
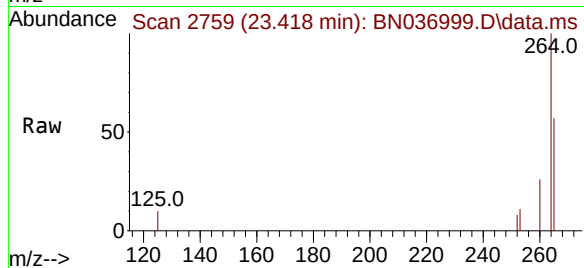
Tgt Ion:264 Resp: 6037

Ion Ratio Lower Upper

264 100

260 25.9 21.9 32.9

265 56.5 51.6 77.4



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.092 ng

RT: 25.629 min Scan# 3515

Delta R.T. -0.003 min

Lab File: BN036999.D

Acq: 13 May 2025 17:41

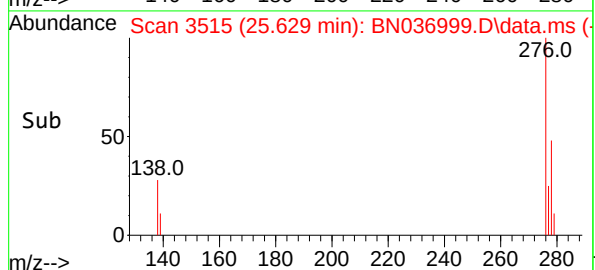
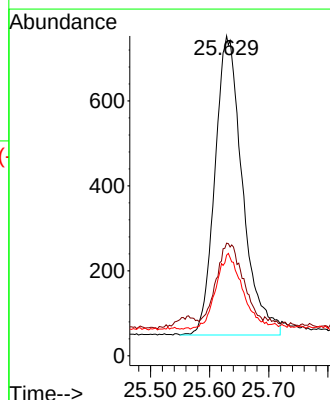
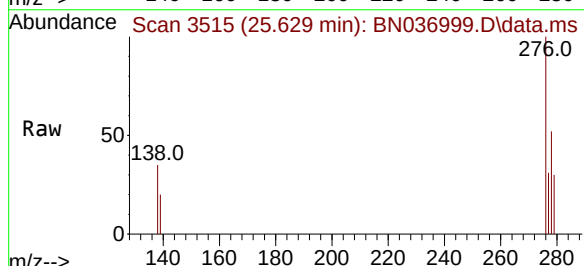
Tgt Ion:276 Resp: 2280

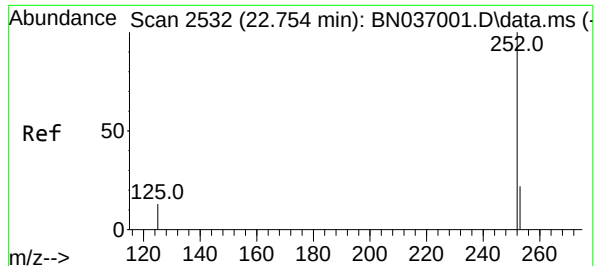
Ion Ratio Lower Upper

276 100

138 25.8 22.7 34.1

277 24.3 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 0.098 ng

RT: 22.758 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN036999.D

Acq: 13 May 2025 17:41

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.1

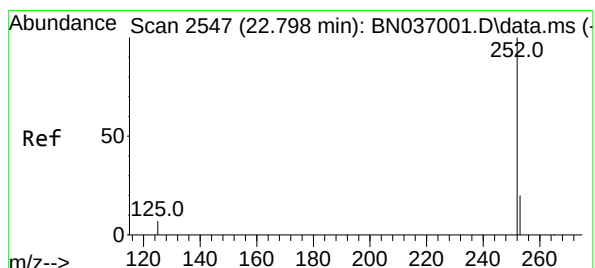
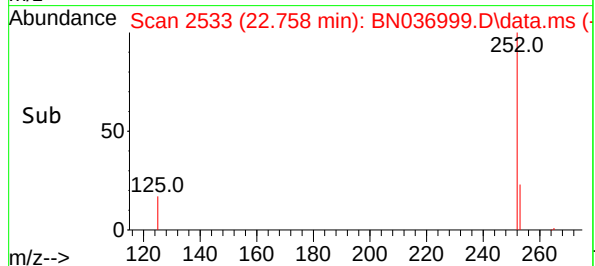
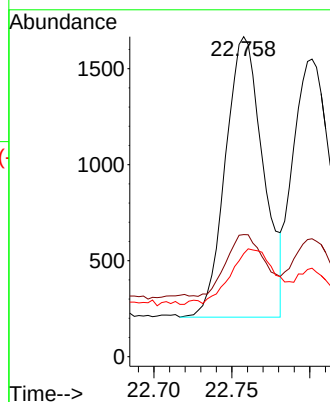
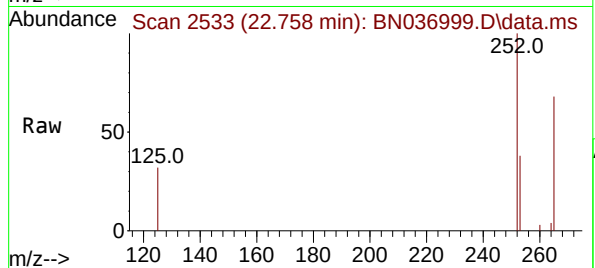
Tgt Ion:252 Resp: 2461

Ion Ratio Lower Upper

252 100

253 38.2 21.8 32.6#

125 32.2 14.6 21.8#



#38

Benzo(k)fluoranthene

Concen: 0.094 ng

RT: 22.801 min Scan# 2548

Delta R.T. 0.003 min

Lab File: BN036999.D

Acq: 13 May 2025 17:41

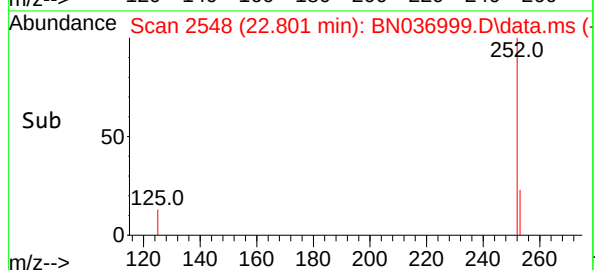
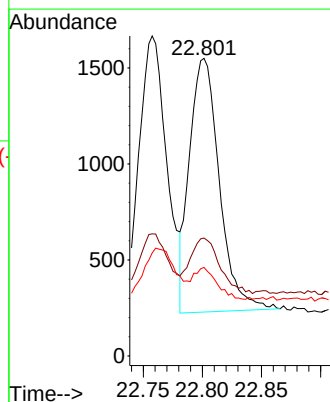
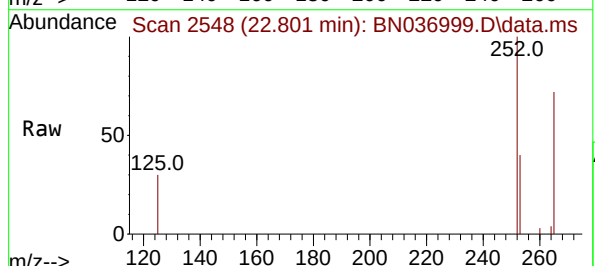
Tgt Ion:252 Resp: 2322

Ion Ratio Lower Upper

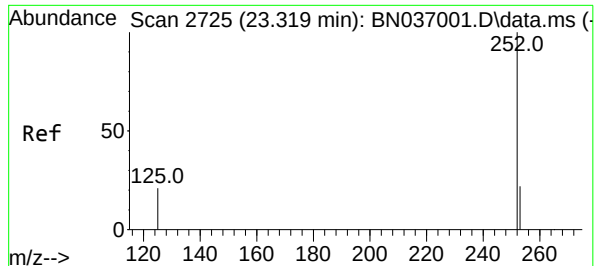
252 100

253 39.6 21.4 32.2#

125 29.7 13.0 19.4#







#39

Benzo(a)pyrene

Concen: 0.098 ng

RT: 23.322 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN036999.D

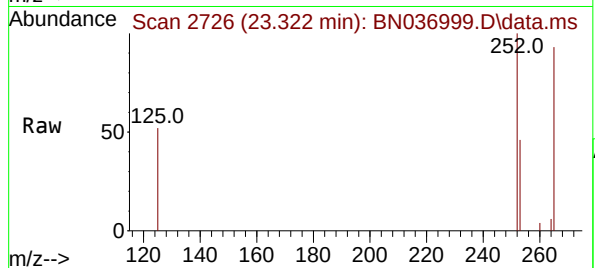
Acq: 13 May 2025 17:41

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.1



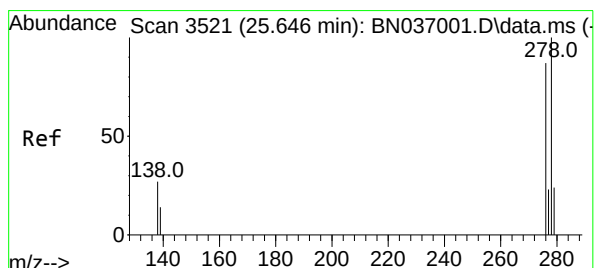
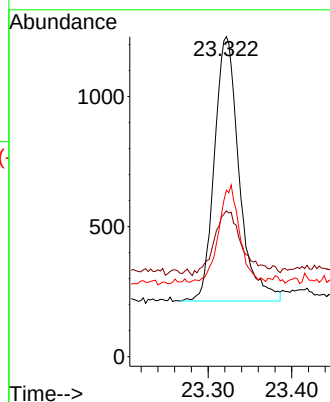
Tgt Ion:252 Resp: 2083

Ion Ratio Lower Upper

252 100

253 45.5 23.8 35.6#

125 52.0 21.8 32.6#



#40

Dibenzo(a,h)anthracene

Concen: 0.088 ng

RT: 25.646 min Scan# 3521

Delta R.T. 0.000 min

Lab File: BN036999.D

Acq: 13 May 2025 17:41

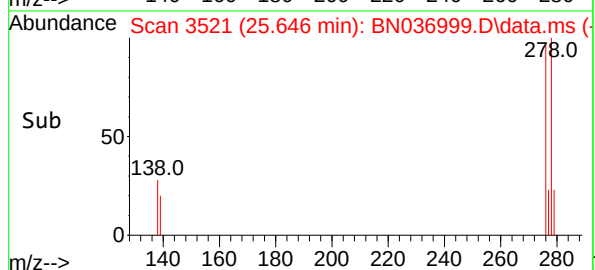
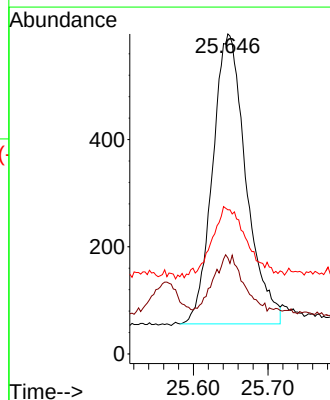
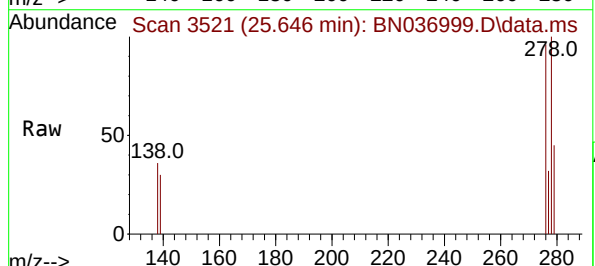
Tgt Ion:278 Resp: 1685

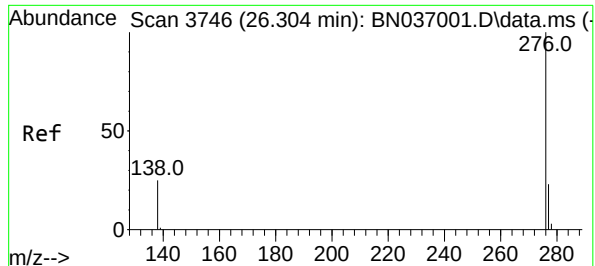
Ion Ratio Lower Upper

278 100

139 30.0 17.4 26.0#

279 45.1 24.6 37.0#





#41

Benzo(g,h,i)perylene

Concen: 0.094 ng

RT: 26.304 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN036999.D

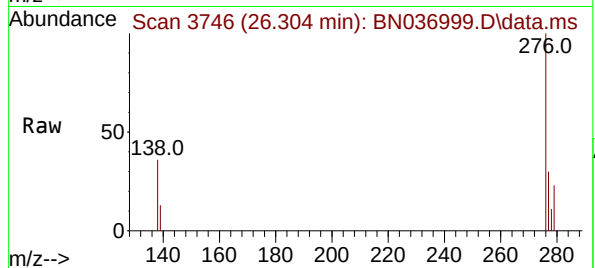
Acq: 13 May 2025 17:41

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.1



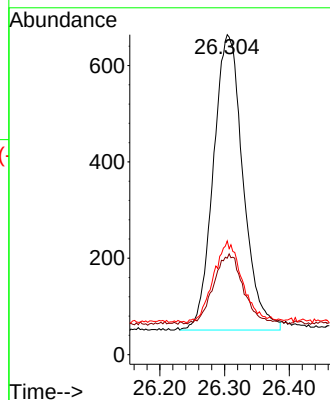
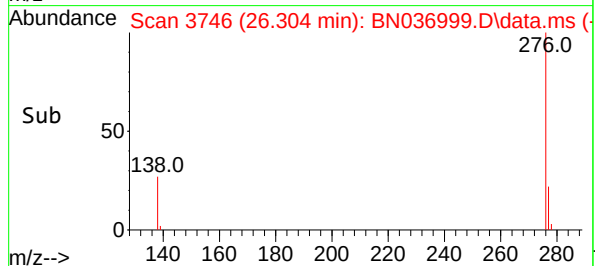
Tgt Ion:276 Resp: 1960

Ion Ratio Lower Upper

276 100

277 30.1 20.2 30.4

138 35.5 22.0 33.0#



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN051425\  
 Data File : BN037000.D  
 Acq On : 13 May 2025 18:17  
 Operator : RC/JU  
 Sample : SSTDICC0.2  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

## Instrument :

BNA\_N

## ClientSampleId :

SSTDICC0.2

## Manual Integrations

## APPROVED

Reviewed By :Rahul Chavli 05/15/2025

Supervised By :Jagrut Upadhyay 05/15/2025

Quant Time: May 14 11:00:10 2025

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN051425.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed May 14 10:57:36 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.618  | 152  | 2140     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.404 | 136  | 5637     | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 14.266 | 164  | 3174     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 17.009 | 188  | 6255     | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 21.206 | 240  | 5420     | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.415 | 264  | 5487     | 0.400 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.213  | 112  | 1178     | 0.210 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.795  | 99   | 1395     | 0.199 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.771  | 82   | 1080     | 0.176 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.996 | 152  | 1543     | 0.194 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.767 | 330  | 267      | 0.192 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.888 | 172  | 2858     | 0.197 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 19.049 | 212  | 3232     | 0.188 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.658 | 244  | 2287     | 0.197 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| Target Compounds              |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.140  | 88   | 546      | 0.208 | ng    | 97       |
| 3) n-Nitrosodimethylamine     | 3.458  | 42   | 1042     | 0.185 | ng    | # 95     |
| 6) bis(2-Chloroethyl)ether    | 7.048  | 93   | 1244     | 0.193 | ng    | 99       |
| 9) Naphthalene                | 10.447 | 128  | 3213     | 0.193 | ng    | 99       |
| 10) Hexachlorobutadiene       | 10.746 | 225  | 698      | 0.200 | ng    | # 99     |
| 12) 2-Methylnaphthalene       | 12.072 | 142  | 2041     | 0.191 | ng    | 99       |
| 16) Acenaphthylene            | 13.978 | 152  | 2917     | 0.189 | ng    | 99       |
| 17) Acenaphthene              | 14.331 | 154  | 1950     | 0.193 | ng    | 99       |
| 18) Fluorene                  | 15.325 | 166  | 2509     | 0.189 | ng    | 99       |
| 20) 4,6-Dinitro-2-methylph... | 15.410 | 198  | 187      | 0.167 | ng    | # 48     |
| 21) 4-Bromophenyl-phenylether | 16.214 | 248  | 770      | 0.195 | ng    | 99       |
| 22) Hexachlorobenzene         | 16.326 | 284  | 840      | 0.199 | ng    | 98       |
| 23) Atrazine                  | 16.487 | 200  | 647      | 0.188 | ng    | 98       |
| 24) Pentachlorophenol         | 16.673 | 266  | 419      | 0.178 | ng    | 98       |
| 25) Phenanthrene              | 17.058 | 178  | 3977     | 0.195 | ng    | 100      |
| 26) Anthracene                | 17.145 | 178  | 3452     | 0.186 | ng    | 99       |
| 28) Fluoranthene              | 19.082 | 202  | 4499     | 0.184 | ng    | 99       |
| 30) Pyrene                    | 19.444 | 202  | 4629     | 0.200 | ng    | 100      |
| 32) Benzo(a)anthracene        | 21.197 | 228  | 3882     | 0.190 | ng    | 98       |
| 33) Chrysene                  | 21.251 | 228  | 4226     | 0.196 | ng    | 98       |
| 34) Bis(2-ethylhexyl)phtha... | 21.135 | 149  | 2490     | 0.198 | ng    | 99       |
| 36) Indeno(1,2,3-cd)pyrene    | 25.628 | 276  | 4426     | 0.198 | ng    | 99       |
| 37) Benzo(b)fluoranthene      | 22.757 | 252  | 4306m    | 0.189 | ng    |          |
| 38) Benzo(k)fluoranthene      | 22.798 | 252  | 4219     | 0.188 | ng    | # 91     |
| 39) Benzo(a)pyrene            | 23.322 | 252  | 3685     | 0.191 | ng    | # 88     |
| 40) Dibenzo(a,h)anthracene    | 25.646 | 278  | 3380     | 0.194 | ng    | 94       |
| 41) Benzo(g,h,i)perylene      | 26.301 | 276  | 3861     | 0.204 | ng    | 96       |
| -----                         |        |      |          |       |       |          |

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

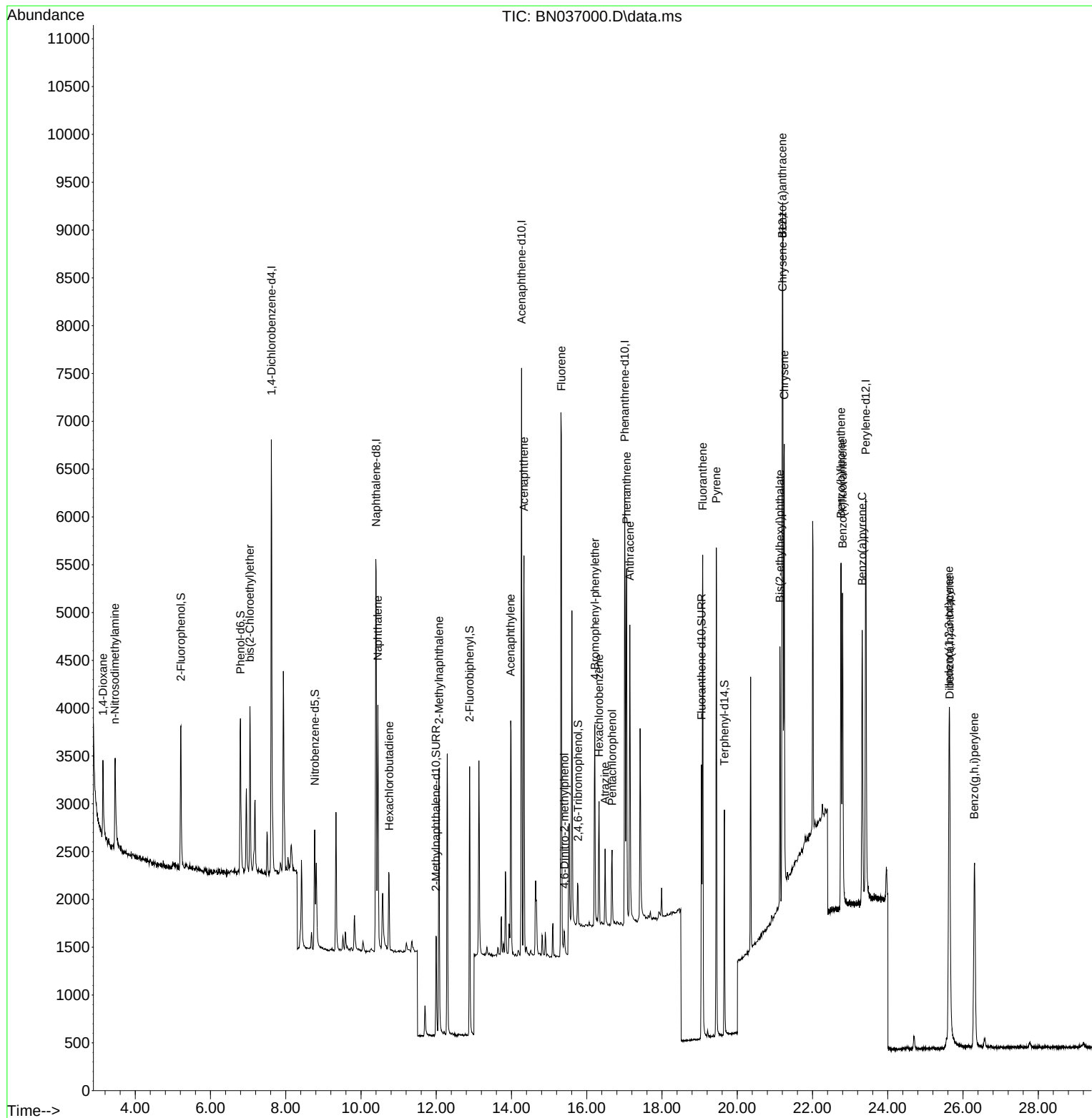
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN051425\  
 Data File : BN037000.D  
 Acq On : 13 May 2025 18:17  
 Operator : RC/JU  
 Sample : SSTDICC0.2  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

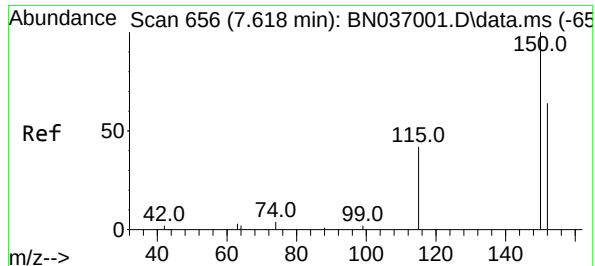
Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC0.2

### Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/15/2025  
 Supervised By :Jagrut Upadhyay 05/15/2025

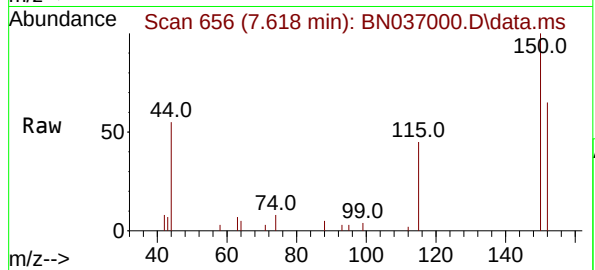
Quant Time: May 14 11:00:10 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN051425.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 14 10:57:36 2025  
 Response via : Initial Calibration





#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.618 min Scan# 656  
Delta R.T. 0.000 min  
Lab File: BN037000.D  
Acq: 13 May 2025 18:17

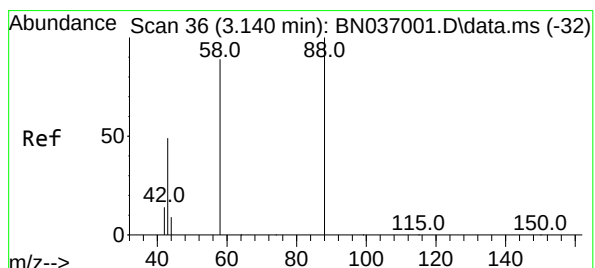
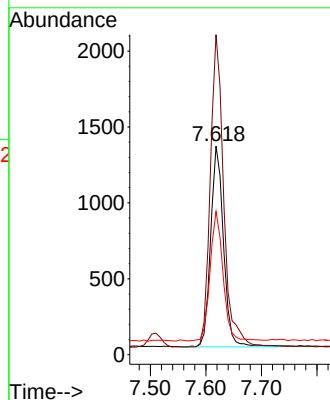
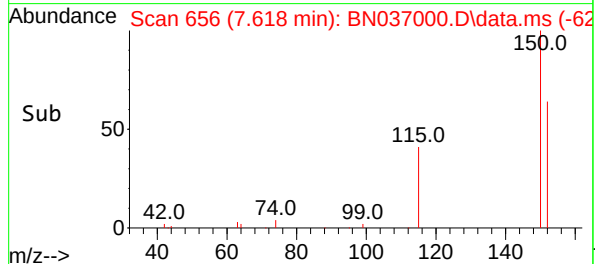
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2



Tgt Ion: 152 Resp: 2140  
Ion Ratio Lower Upper  
152 100  
150 153.5 123.9 185.9  
115 68.7 55.8 83.8

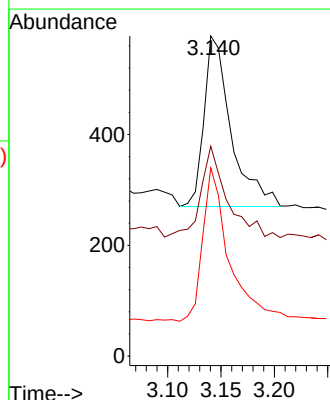
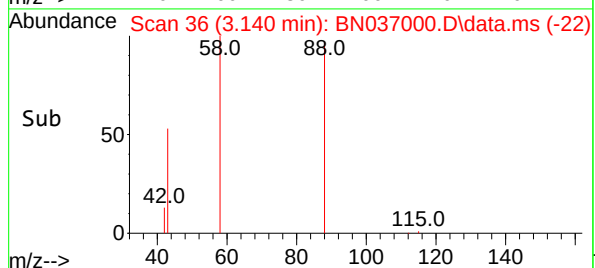
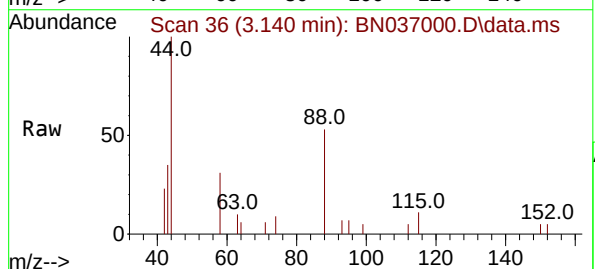
Manual Integrations  
APPROVED

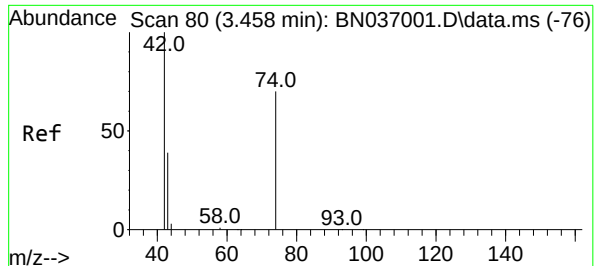
Reviewed By :Rahul Chavli 05/15/2025  
Supervised By :Jagrut Upadhyay 05/15/2025



#2  
1,4-Dioxane  
Concen: 0.208 ng  
RT: 3.140 min Scan# 36  
Delta R.T. 0.000 min  
Lab File: BN037000.D  
Acq: 13 May 2025 18:17

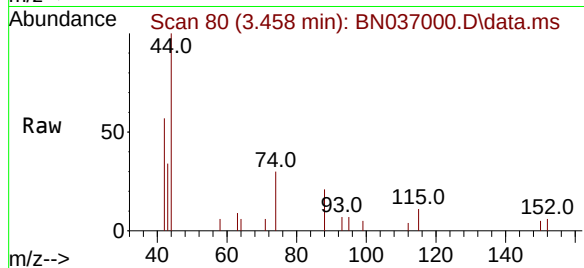
Tgt Ion: 88 Resp: 546  
Ion Ratio Lower Upper  
88 100  
43 52.4 37.4 56.0  
58 85.7 68.8 103.2





#3  
n-Nitrosodimethylamine  
Concen: 0.185 ng  
RT: 3.458 min Scan# 80  
Delta R.T. -0.000 min  
Lab File: BN037000.D  
Acq: 13 May 2025 18:17

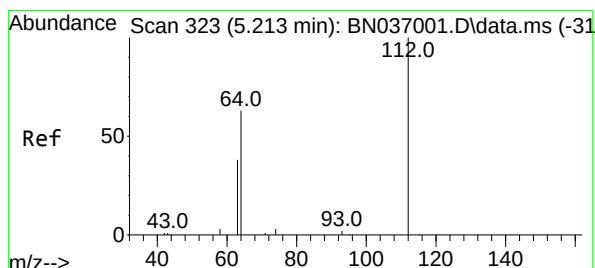
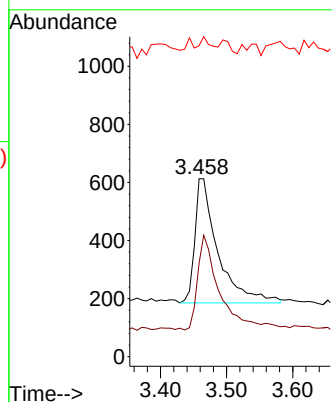
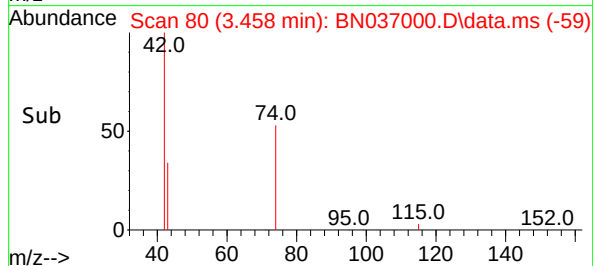
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2



Tgt Ion: 42 Resp: 104  
Ion Ratio Lower Upper  
42 100  
74 72.6 59.8 89.6  
44 7.5 11.9 17.9

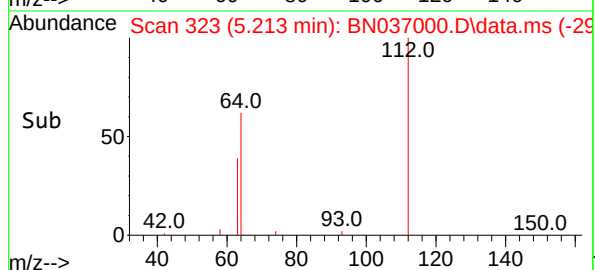
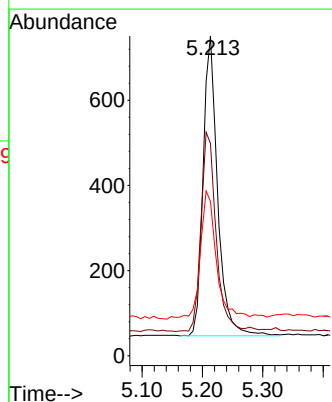
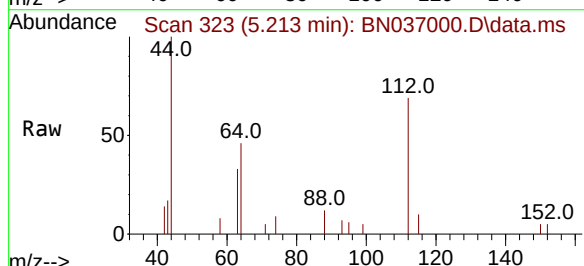
Manual Integrations  
APPROVED

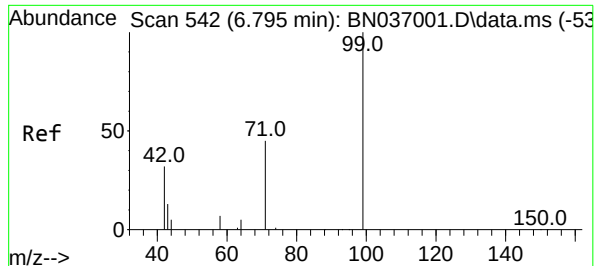
Reviewed By :Rahul Chavli 05/15/2025  
Supervised By :Jagrut Upadhyay 05/15/2025



#4  
2-Fluorophenol  
Concen: 0.210 ng  
RT: 5.213 min Scan# 323  
Delta R.T. 0.000 min  
Lab File: BN037000.D  
Acq: 13 May 2025 18:17

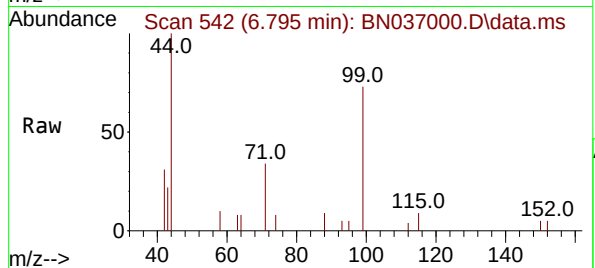
Tgt Ion:112 Resp: 1178  
Ion Ratio Lower Upper  
112 100  
64 68.7 55.7 83.5  
63 47.2 34.6 51.8





#5  
Phenol-d6  
Concen: 0.199 ng  
RT: 6.795 min Scan# 542  
Delta R.T. -0.000 min  
Lab File: BN037000.D  
Acq: 13 May 2025 18:17

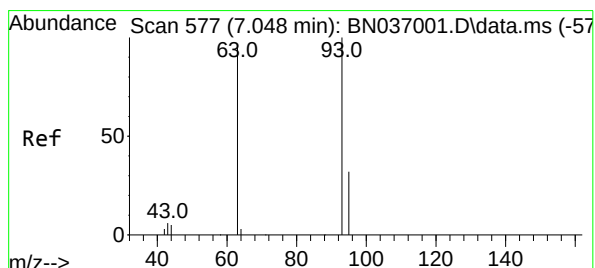
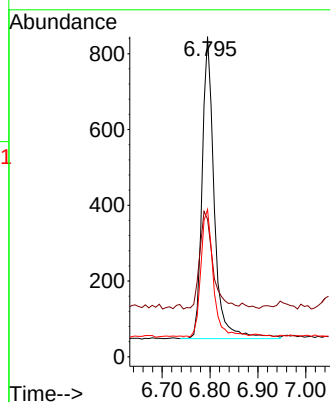
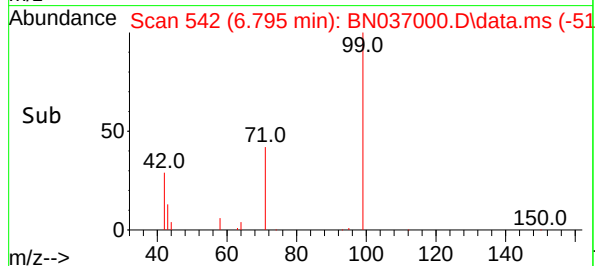
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2



Tgt Ion: 99 Resp: 139  
Ion Ratio Lower Upper  
99 100  
42 34.2 29.3 43.9  
71 42.7 35.7 53.5

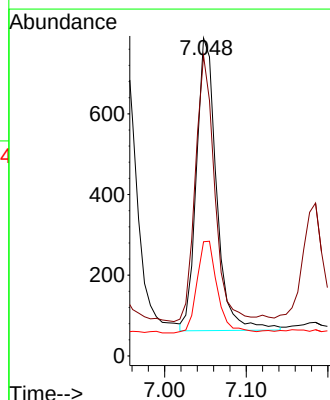
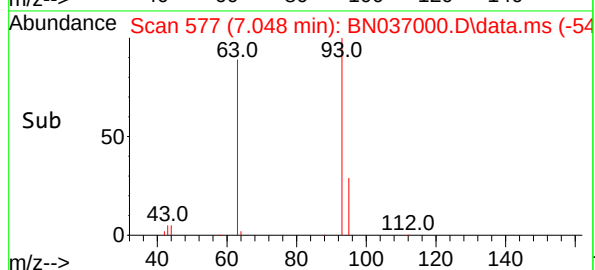
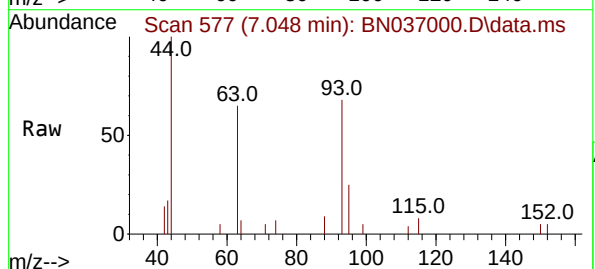
Manual Integrations  
APPROVED

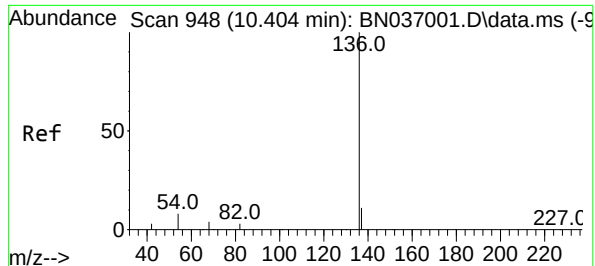
Reviewed By :Rahul Chavli 05/15/2025  
Supervised By :Jagrut Upadhyay 05/15/2025



#6  
bis(2-Chloroethyl)ether  
Concen: 0.193 ng  
RT: 7.048 min Scan# 577  
Delta R.T. -0.000 min  
Lab File: BN037000.D  
Acq: 13 May 2025 18:17

Tgt Ion: 93 Resp: 1244  
Ion Ratio Lower Upper  
93 100  
63 86.9 70.1 105.1  
95 31.8 26.2 39.2





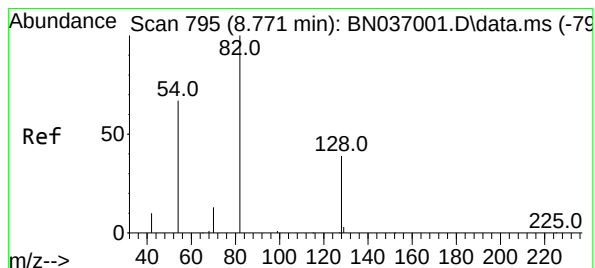
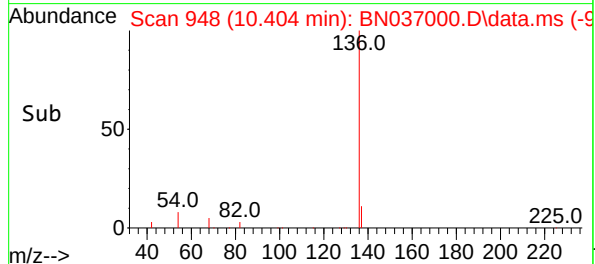
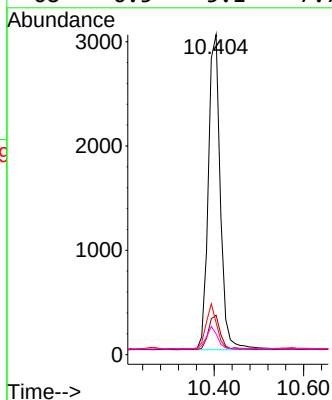
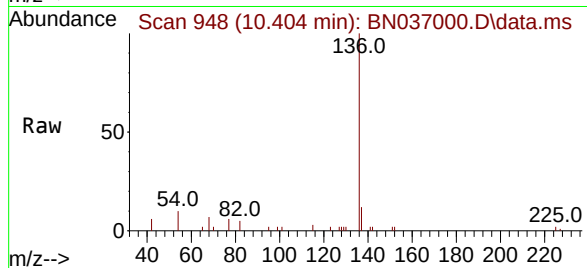
#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.404 min Scan# 948  
Delta R.T. -0.000 min  
Lab File: BN037000.D  
Acq: 13 May 2025 18:17

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 563   |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 12.3  | 10.4  | 15.6  |
| 54       | 10.0  | 8.5   | 12.7  |
| 68       | 6.5   | 5.1   | 7.7   |

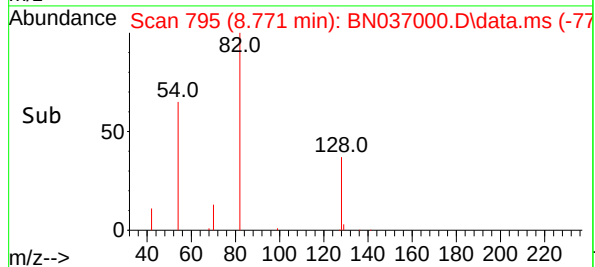
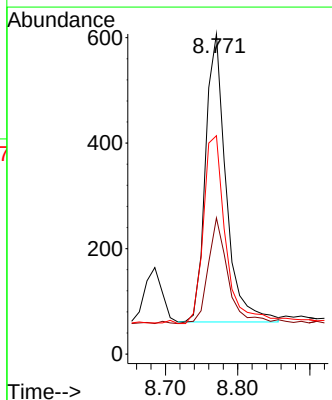
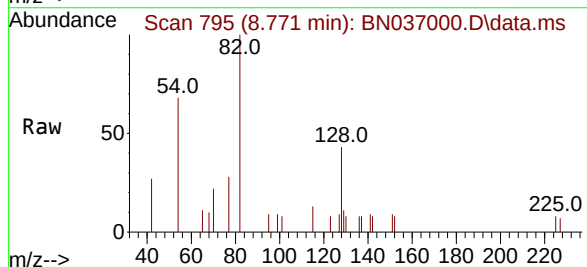
Manual Integrations  
APPROVED

Reviewed By :Rahul Chavli 05/15/2025  
Supervised By :Jagrut Upadhyay 05/15/2025

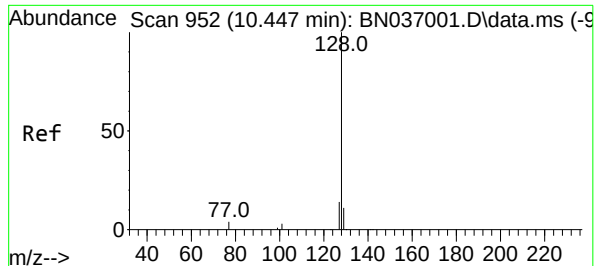


#8  
Nitrobenzene-d5  
Concen: 0.176 ng  
RT: 8.771 min Scan# 795  
Delta R.T. -0.000 min  
Lab File: BN037000.D  
Acq: 13 May 2025 18:17

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 1080  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 42.5  | 34.0  | 51.0  |
| 54       | 68.2  | 55.0  | 82.4  |







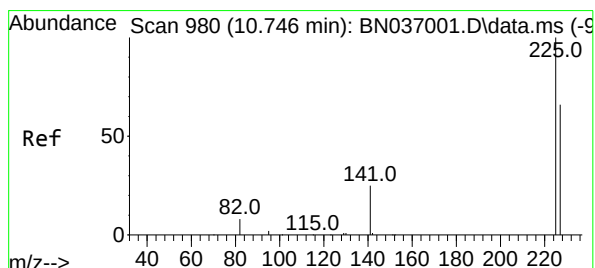
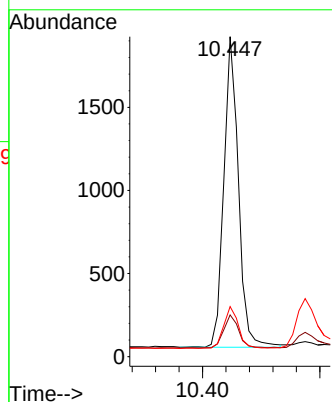
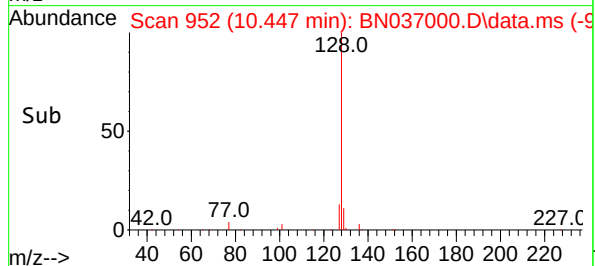
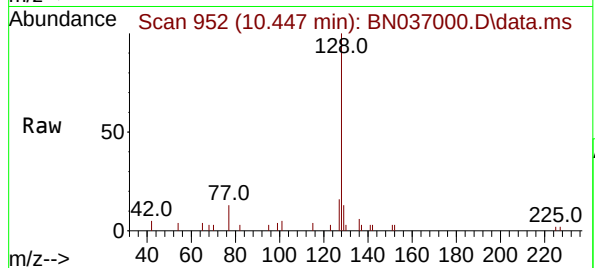
#9  
Naphthalene  
Concen: 0.193 ng  
RT: 10.447 min Scan# 952  
Delta R.T. -0.000 min  
Lab File: BN037000.D  
Acq: 13 May 2025 18:17

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

Tgt Ion:128 Resp: 321  
Ion Ratio Lower Upper  
128 100  
129 13.0 9.7 14.5  
127 15.6 12.4 18.6

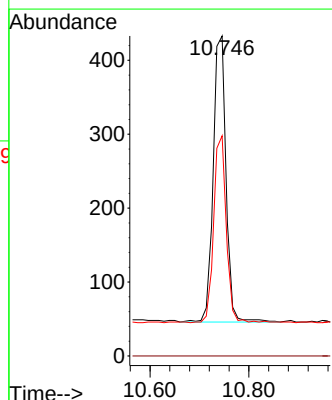
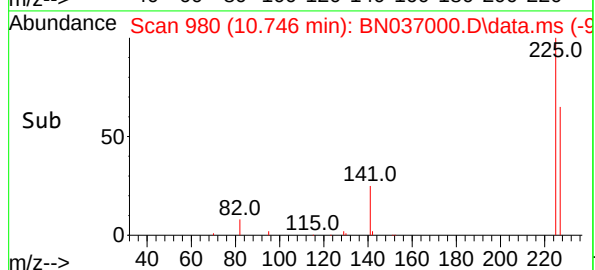
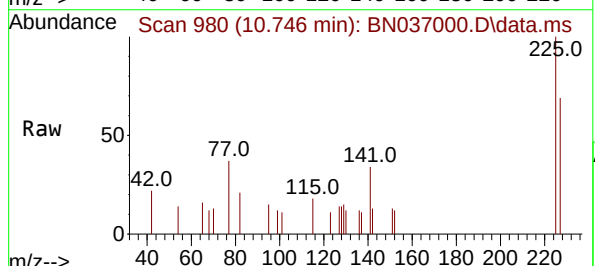
Manual Integrations  
APPROVED

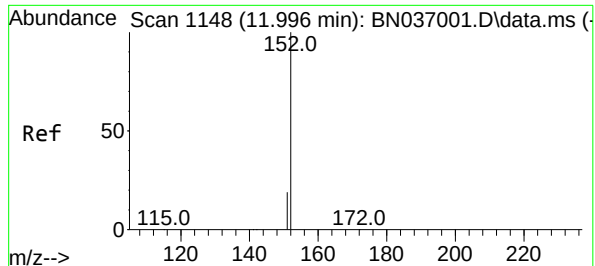
Reviewed By :Rahul Chavli 05/15/2025  
Supervised By :Jagrut Upadhyay 05/15/2025



#10  
Hexachlorobutadiene  
Concen: 0.200 ng  
RT: 10.746 min Scan# 980  
Delta R.T. -0.000 min  
Lab File: BN037000.D  
Acq: 13 May 2025 18:17

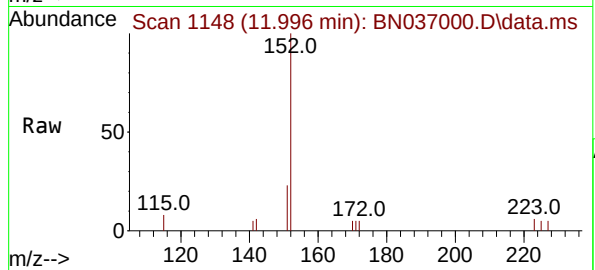
Tgt Ion:225 Resp: 698  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 64.6 50.9 76.3





#11  
2-Methylnaphthalene-d10  
Concen: 0.194 ng  
RT: 11.996 min Scan# 1148  
Delta R.T. -0.000 min  
Lab File: BN037000.D  
Acq: 13 May 2025 18:17

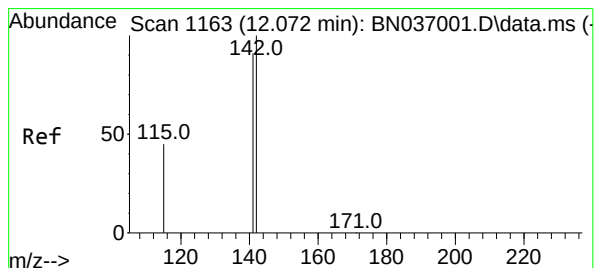
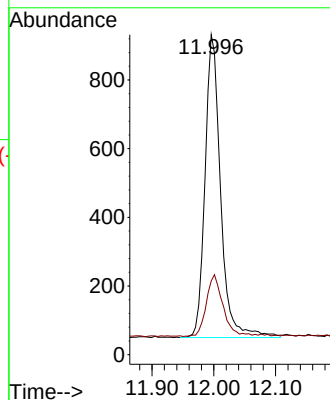
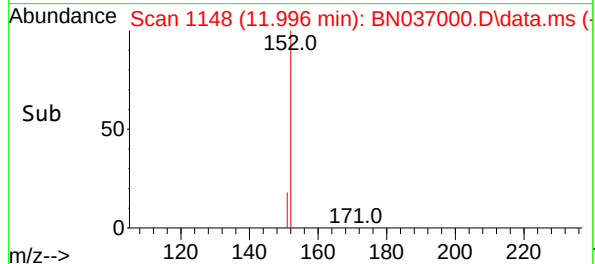
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2



Tgt Ion:152 Resp: 154  
Ion Ratio Lower Upper  
152 100  
151 22.0 17.5 26.3

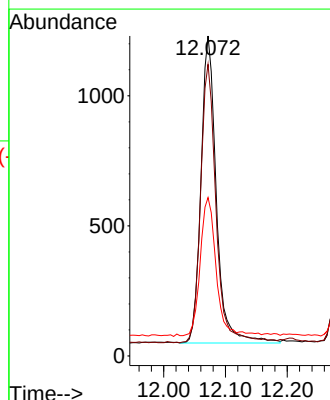
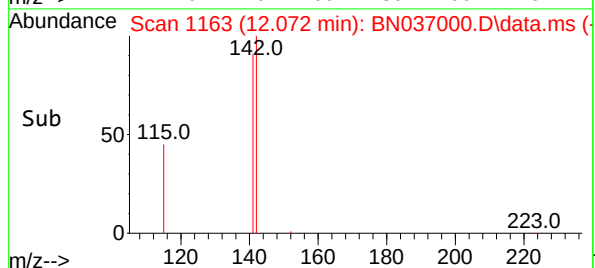
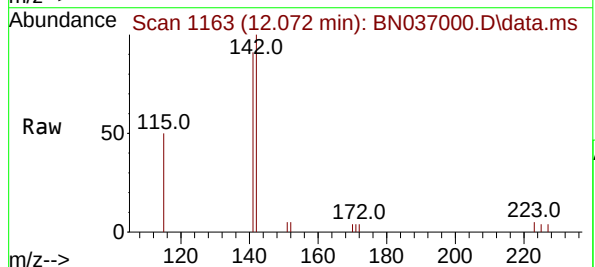
Manual Integrations  
APPROVED

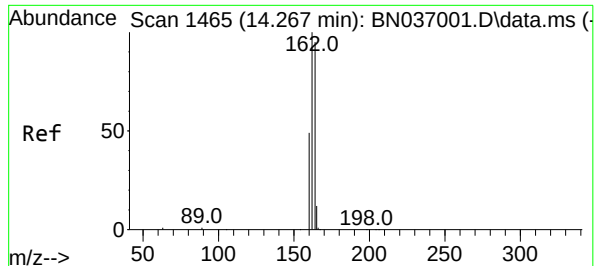
Reviewed By :Rahul Chavli 05/15/2025  
Supervised By :Jagrut Upadhyay 05/15/2025



#12  
2-Methylnaphthalene  
Concen: 0.191 ng  
RT: 12.072 min Scan# 1163  
Delta R.T. -0.000 min  
Lab File: BN037000.D  
Acq: 13 May 2025 18:17

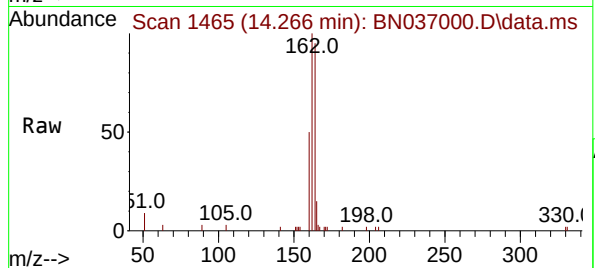
Tgt Ion:142 Resp: 2041  
Ion Ratio Lower Upper  
142 100  
141 91.1 73.3 109.9  
115 49.5 38.4 57.6





#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.266 min Scan# 1465  
Delta R.T. -0.000 min  
Lab File: BN037000.D  
Acq: 13 May 2025 18:17

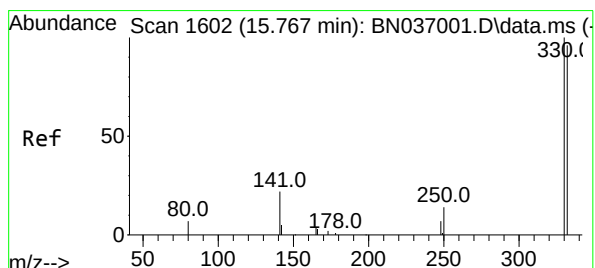
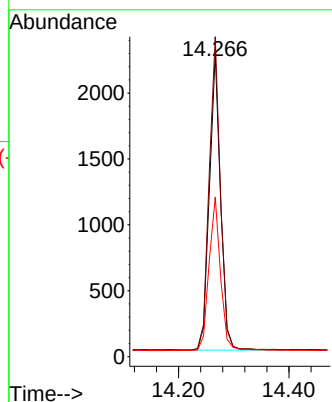
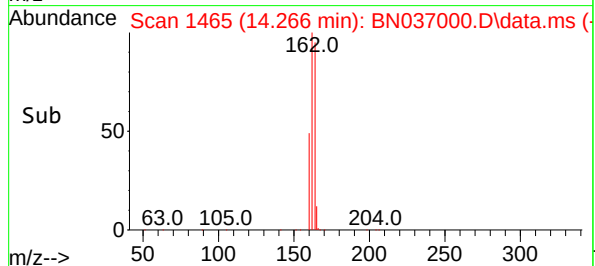
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2



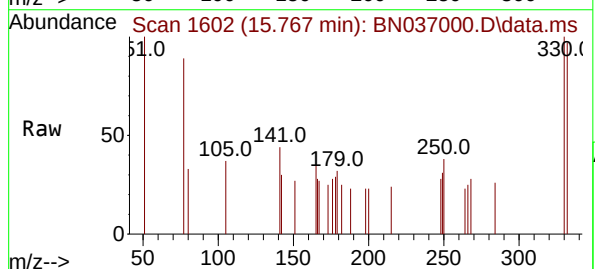
Tgt Ion:164 Resp: 3174  
Ion Ratio Lower Upper  
164 100  
162 105.4 84.2 126.4  
160 52.6 42.6 63.8

Manual Integrations  
APPROVED

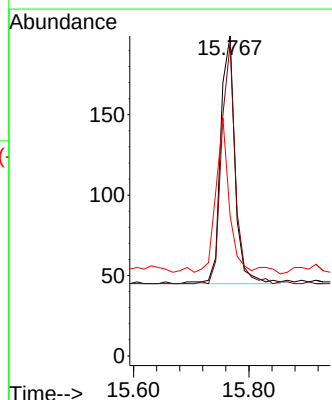
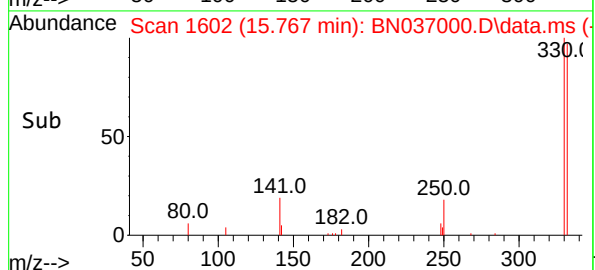
Reviewed By :Rahul Chavli 05/15/2025  
Supervised By :Jagrut Upadhyay 05/15/2025

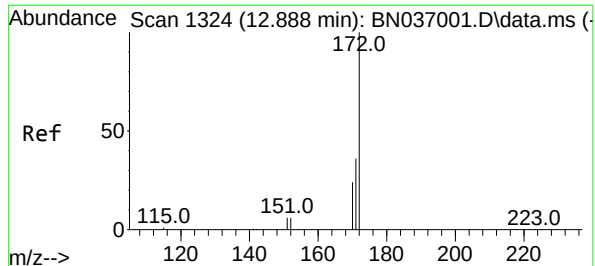


#14  
2,4,6-Tribromophenol  
Concen: 0.192 ng  
RT: 15.767 min Scan# 1602  
Delta R.T. -0.000 min  
Lab File: BN037000.D  
Acq: 13 May 2025 18:17



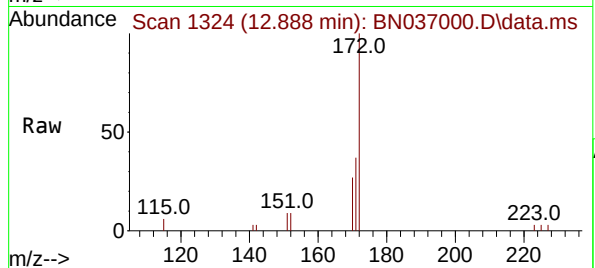
Tgt Ion:330 Resp: 267  
Ion Ratio Lower Upper  
330 100  
332 93.3 73.8 110.8  
141 58.1 43.9 65.9





#15  
2-Fluorobiphenyl  
Concen: 0.197 ng  
RT: 12.888 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: BN037000.D  
Acq: 13 May 2025 18:17

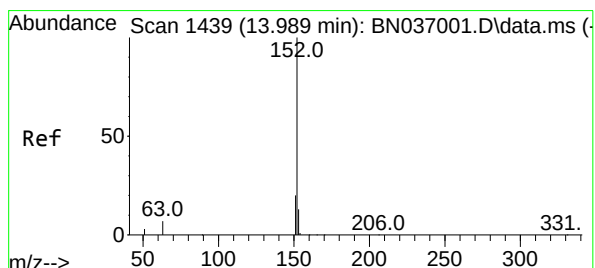
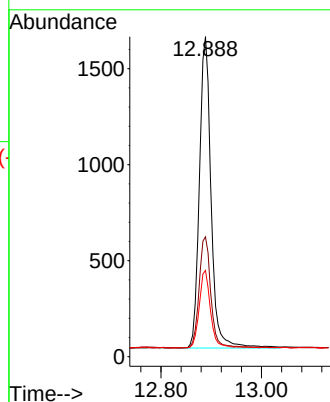
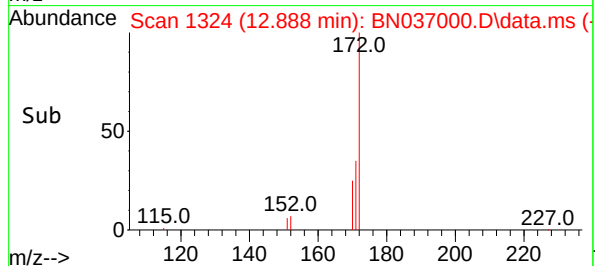
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2



Tgt Ion:172 Resp: 285  
Ion Ratio Lower Upper  
172 100  
171 37.4 29.2 43.8  
170 26.9 20.5 30.7

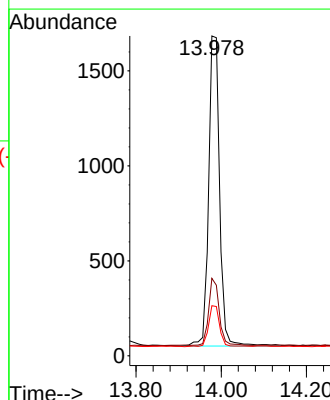
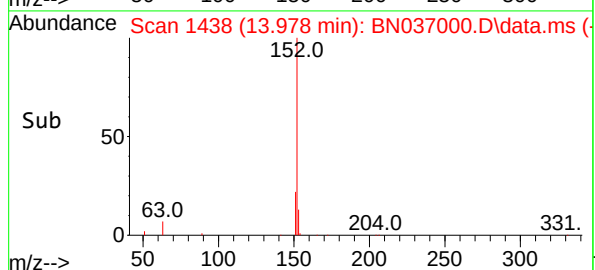
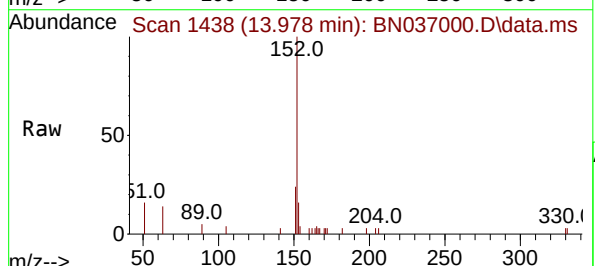
Manual Integrations  
APPROVED

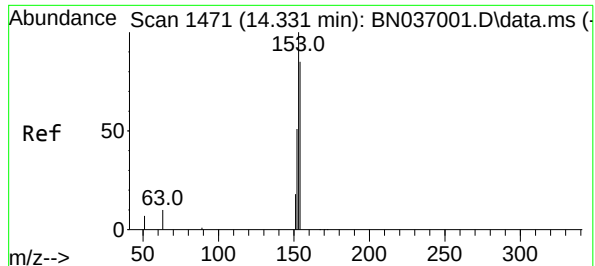
Reviewed By :Rahul Chavli 05/15/2025  
Supervised By :Jagrut Upadhyay 05/15/2025



#16  
Acenaphthylene  
Concen: 0.189 ng  
RT: 13.978 min Scan# 1438  
Delta R.T. -0.011 min  
Lab File: BN037000.D  
Acq: 13 May 2025 18:17

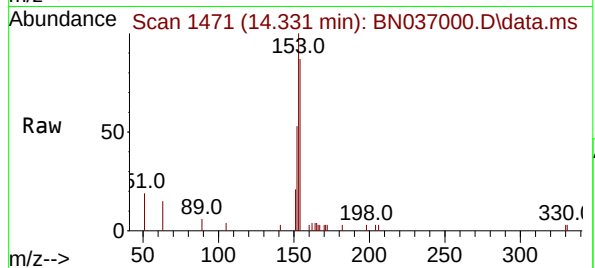
Tgt Ion:152 Resp: 2917  
Ion Ratio Lower Upper  
152 100  
151 20.6 16.1 24.1  
153 13.7 10.5 15.7





#17  
Acenaphthene  
Concen: 0.193 ng  
RT: 14.331 min Scan# 1471  
Delta R.T. -0.000 min  
Lab File: BN037000.D  
Acq: 13 May 2025 18:17

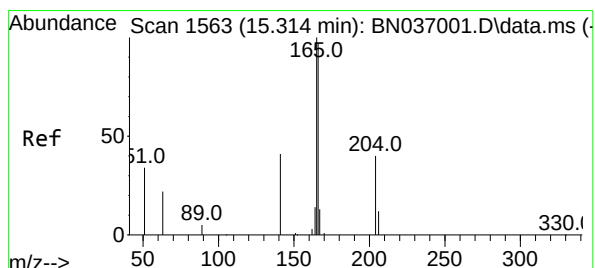
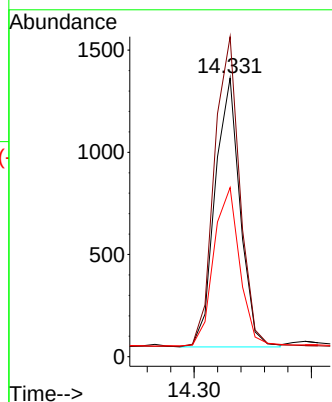
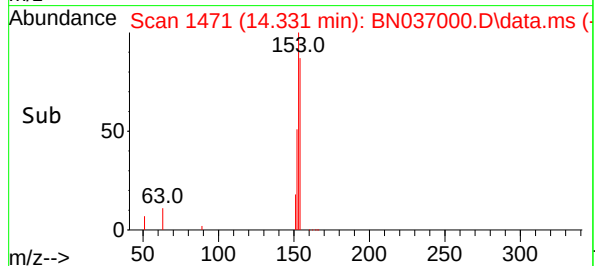
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2



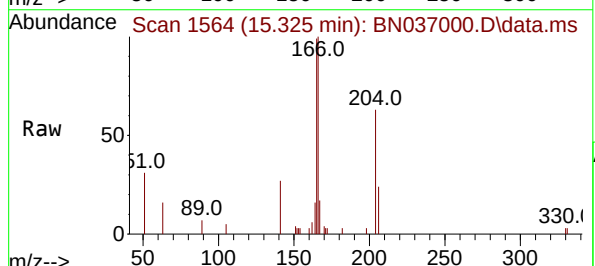
Tgt Ion:154 Resp: 1950  
Ion Ratio Lower Upper  
154 100  
153 117.0 94.2 141.4  
152 62.3 49.4 74.0

Manual Integrations  
APPROVED

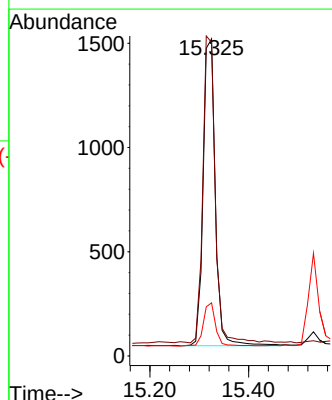
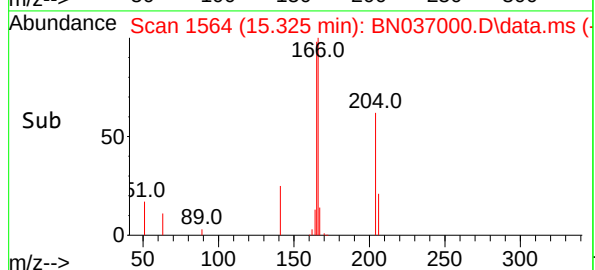
Reviewed By :Rahul Chavli 05/15/2025  
Supervised By :Jagrut Upadhyay 05/15/2025

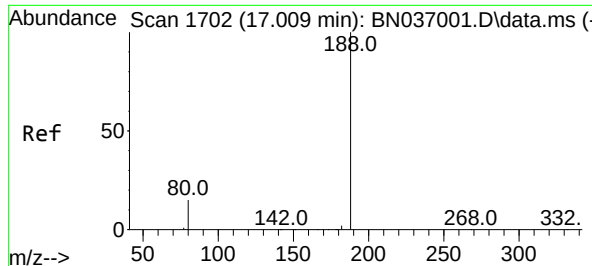


#18  
Fluorene  
Concen: 0.189 ng  
RT: 15.325 min Scan# 1564  
Delta R.T. 0.011 min  
Lab File: BN037000.D  
Acq: 13 May 2025 18:17



Tgt Ion:166 Resp: 2509  
Ion Ratio Lower Upper  
166 100  
165 99.9 80.6 120.8  
167 14.1 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.009 min Scan# 11

Delta R.T. -0.000 min

Lab File: BN037000.D

Acq: 13 May 2025 18:17

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2

Tgt Ion:188 Resp: 625

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

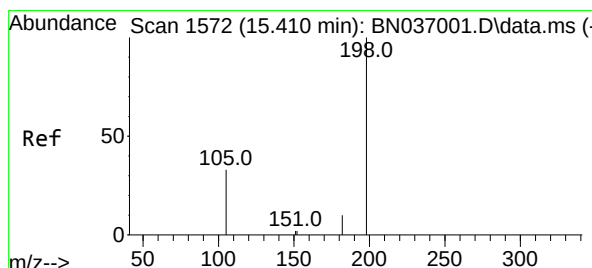
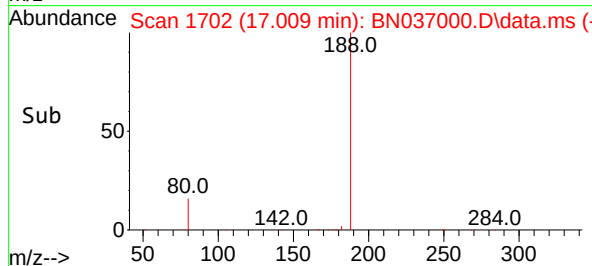
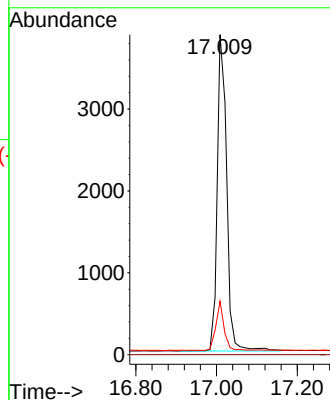
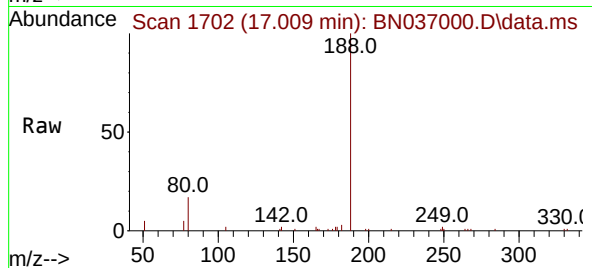
80 16.7 13.4 20.0

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 05/15/2025

Supervised By :Jagrut Upadhyay 05/15/2025



#20

4,6-Dinitro-2-methylphenol

Concen: 0.167 ng

RT: 15.410 min Scan# 1572

Delta R.T. 0.000 min

Lab File: BN037000.D

Acq: 13 May 2025 18:17

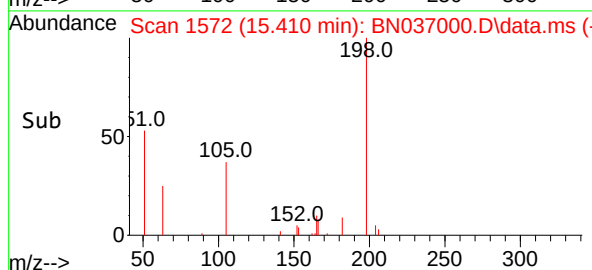
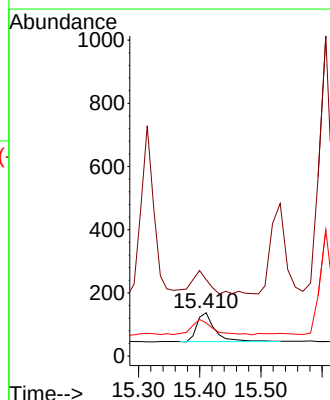
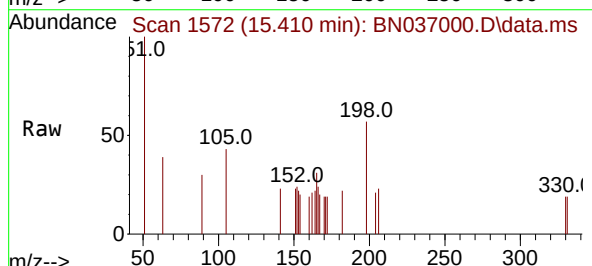
Tgt Ion:198 Resp: 187

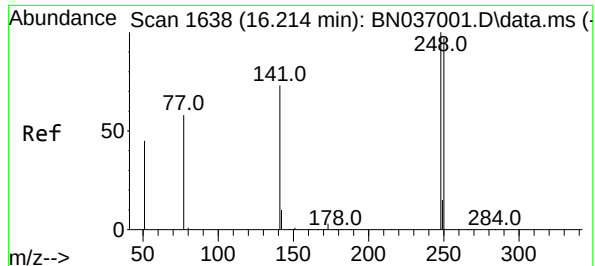
Ion Ratio Lower Upper

198 100

51 176.6 87.8 131.6#

105 76.6 44.2 66.4#





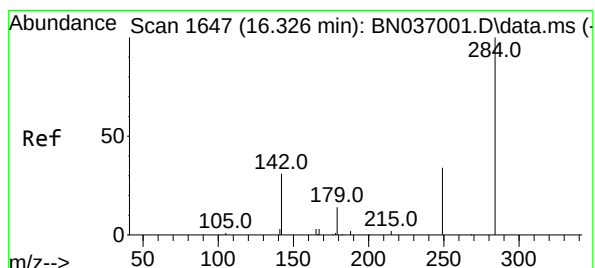
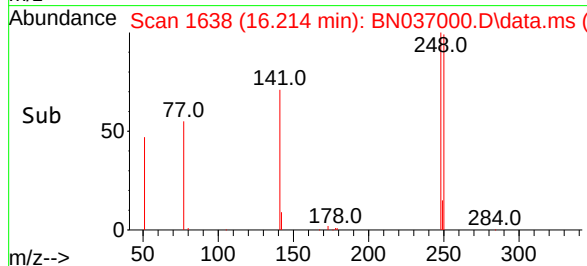
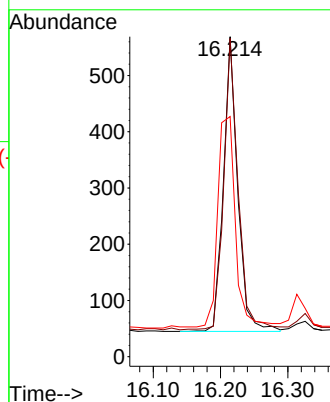
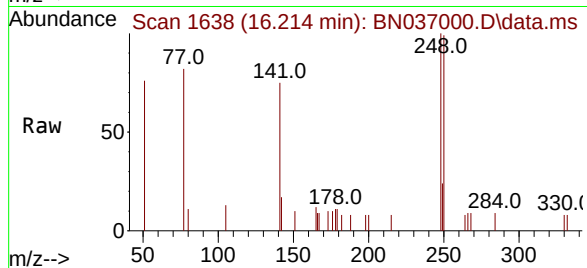
#21  
4-Bromophenyl-phenylether  
Concen: 0.195 ng  
RT: 16.214 min Scan# 1638  
Delta R.T. -0.000 min  
Lab File: BN037000.D  
Acq: 13 May 2025 18:17

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

Tgt Ion:248 Resp: 770  
Ion Ratio Lower Upper  
248 100  
250 99.5 78.1 117.1  
141 75.0 59.7 89.5

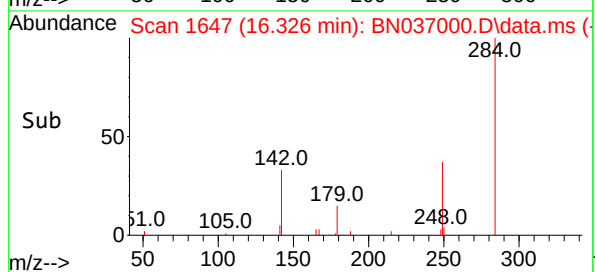
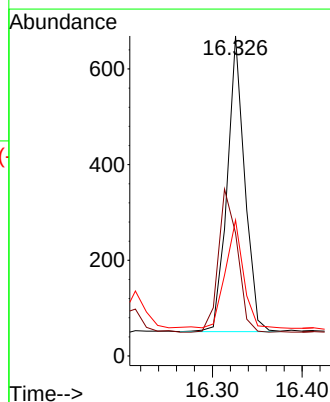
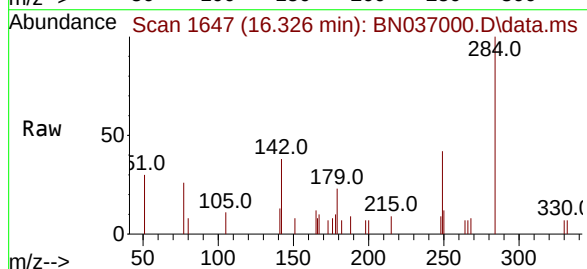
Manual Integrations  
APPROVED

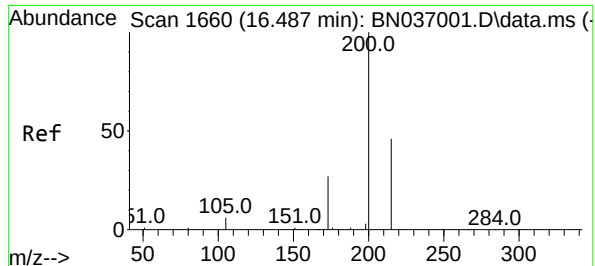
Reviewed By :Rahul Chavli 05/15/2025  
Supervised By :Jagrut Upadhyay 05/15/2025



#22  
Hexachlorobenzene  
Concen: 0.199 ng  
RT: 16.326 min Scan# 1647  
Delta R.T. -0.000 min  
Lab File: BN037000.D  
Acq: 13 May 2025 18:17

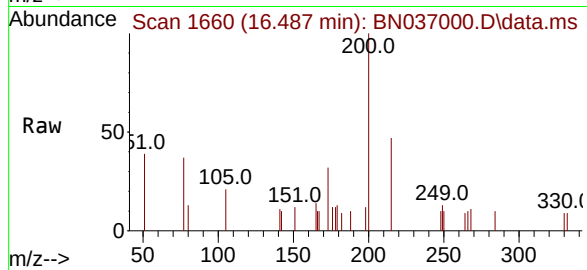
Tgt Ion:284 Resp: 840  
Ion Ratio Lower Upper  
284 100  
142 52.3 41.2 61.8  
249 37.9 28.7 43.1





#23  
Atrazine  
Concen: 0.188 ng  
RT: 16.487 min Scan# 1660  
Delta R.T. -0.000 min  
Lab File: BN037000.D  
Acq: 13 May 2025 18:17

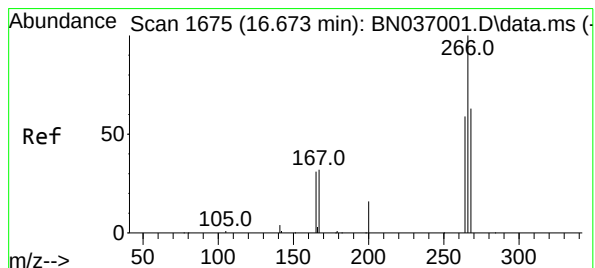
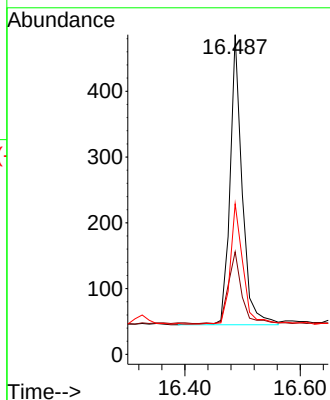
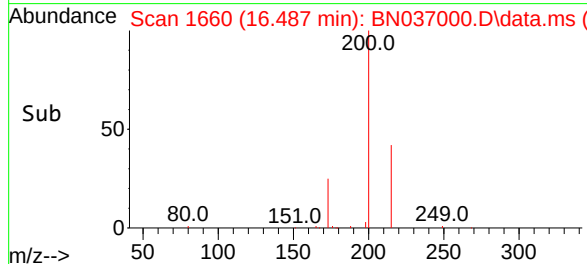
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2



Tgt Ion:200 Resp: 64  
Ion Ratio Lower Upper  
200 100  
173 32.1 25.2 37.8  
215 47.1 39.3 58.9

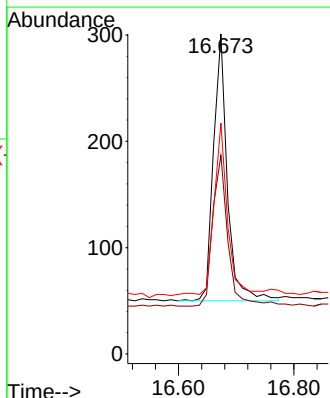
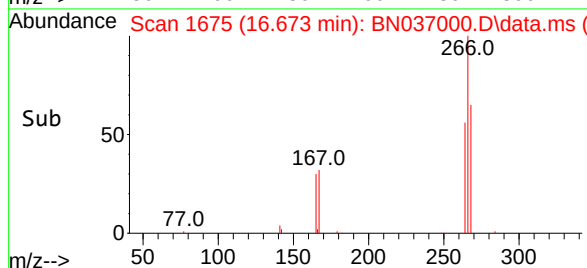
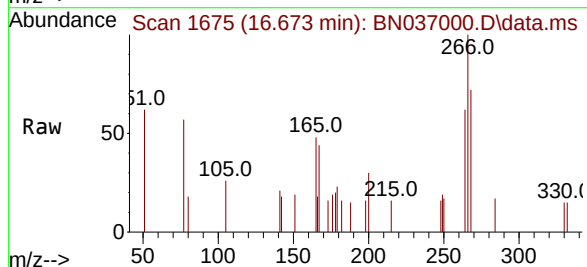
Manual Integrations  
APPROVED

Reviewed By :Rahul Chavli 05/15/2025  
Supervised By :Jagrut Upadhyay 05/15/2025

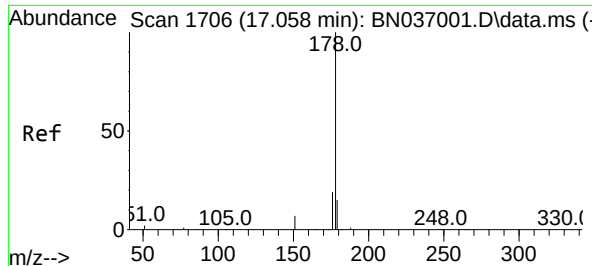


#24  
Pentachlorophenol  
Concen: 0.178 ng  
RT: 16.673 min Scan# 1675  
Delta R.T. -0.000 min  
Lab File: BN037000.D  
Acq: 13 May 2025 18:17

Tgt Ion:266 Resp: 419  
Ion Ratio Lower Upper  
266 100  
264 62.8 47.9 71.9  
268 62.8 50.0 75.0

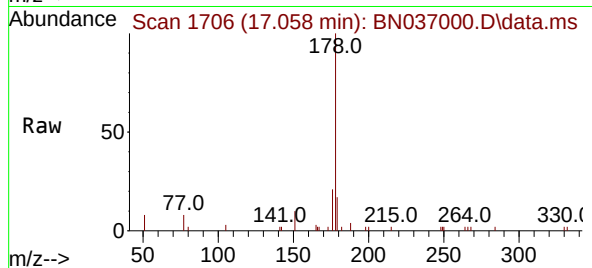






#25  
Phenanthrene  
Concen: 0.195 ng  
RT: 17.058 min Scan# 1706  
Delta R.T. -0.000 min  
Lab File: BN037000.D  
Acq: 13 May 2025 18:17

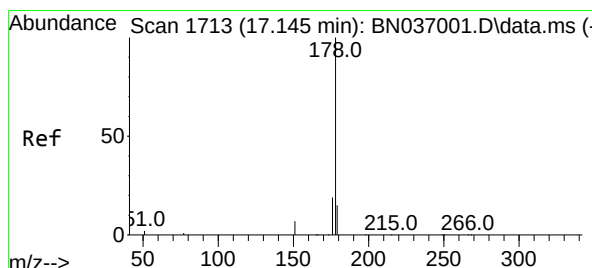
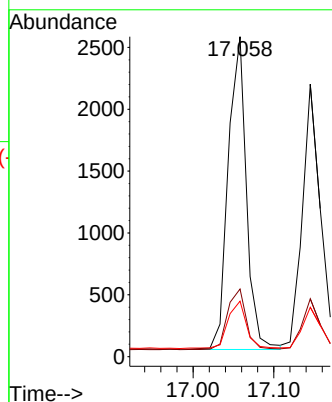
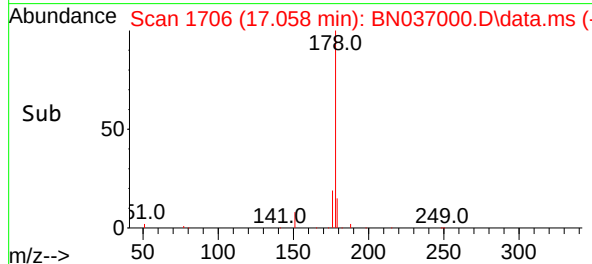
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2



Tgt Ion:178 Resp: 397  
Ion Ratio Lower Upper  
178 100  
176 19.6 15.7 23.5  
179 15.6 12.2 18.2

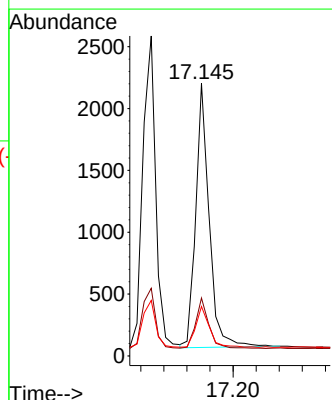
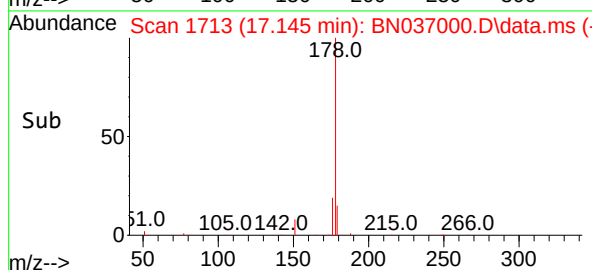
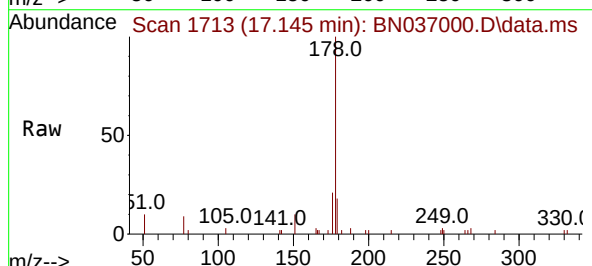
Manual Integrations  
APPROVED

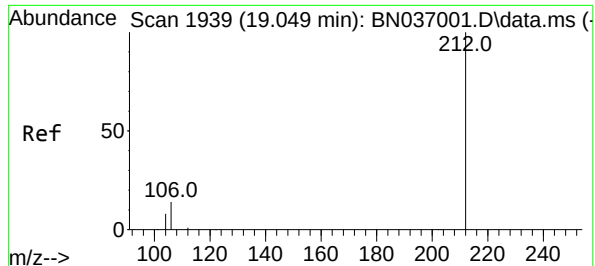
Reviewed By :Rahul Chavli 05/15/2025  
Supervised By :Jagrut Upadhyay 05/15/2025



#26  
Anthracene  
Concen: 0.186 ng  
RT: 17.145 min Scan# 1713  
Delta R.T. -0.000 min  
Lab File: BN037000.D  
Acq: 13 May 2025 18:17

Tgt Ion:178 Resp: 3452  
Ion Ratio Lower Upper  
178 100  
176 18.8 15.0 22.6  
179 15.9 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.188 ng

RT: 19.049 min Scan# 1939

Delta R.T. -0.000 min

Lab File: BN037000.D

Acq: 13 May 2025 18:17

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2

Tgt Ion:212 Resp: 323

Ion Ratio Lower Upper

212 100

106 14.3 11.3 16.9

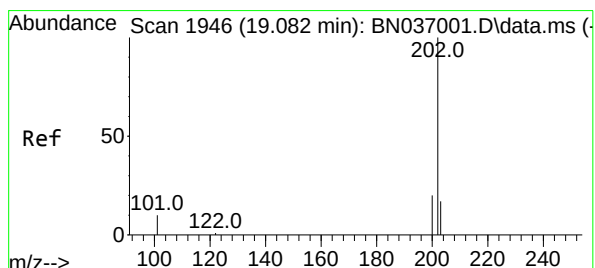
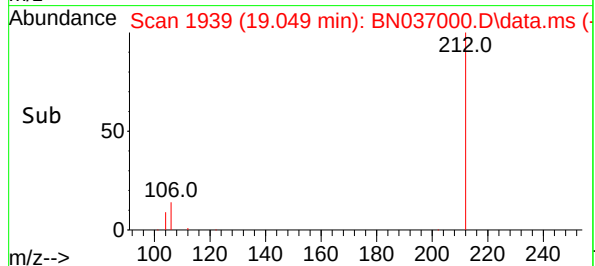
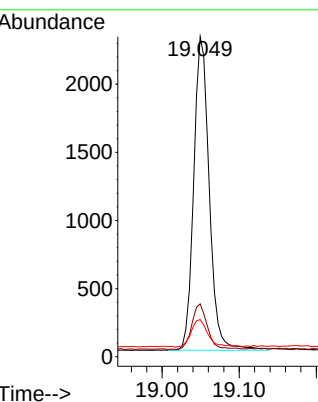
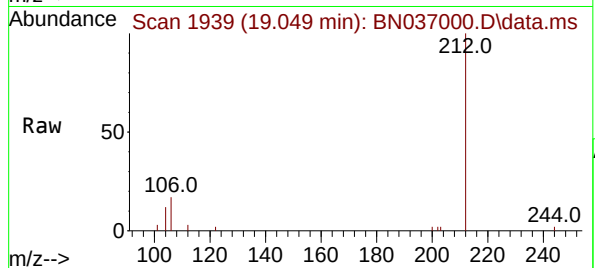
104 9.5 6.7 10.1

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 05/15/2025

Supervised By :Jagrut Upadhyay 05/15/2025



#28

Fluoranthene

Concen: 0.184 ng

RT: 19.082 min Scan# 1946

Delta R.T. -0.000 min

Lab File: BN037000.D

Acq: 13 May 2025 18:17

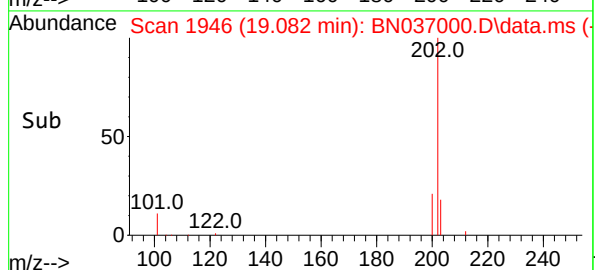
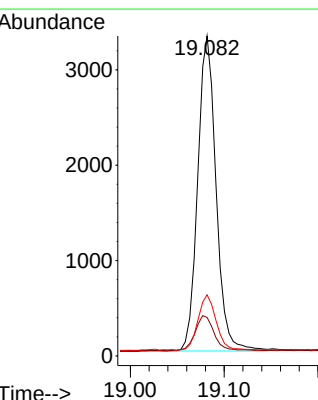
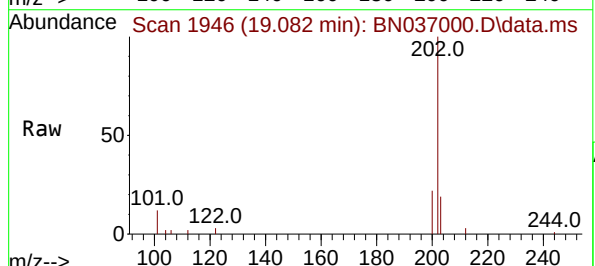
Tgt Ion:202 Resp: 4499

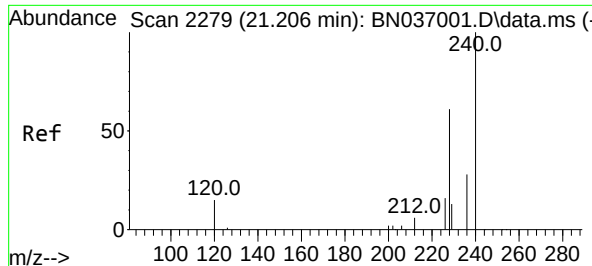
Ion Ratio Lower Upper

202 100

101 11.5 8.9 13.3

203 17.6 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.206 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037000.D

Acq: 13 May 2025 18:17

Instrument :

BNA\_N

ClientSampleId :

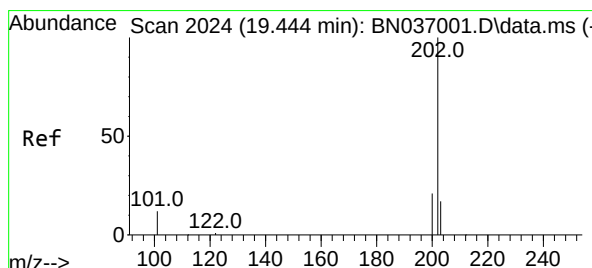
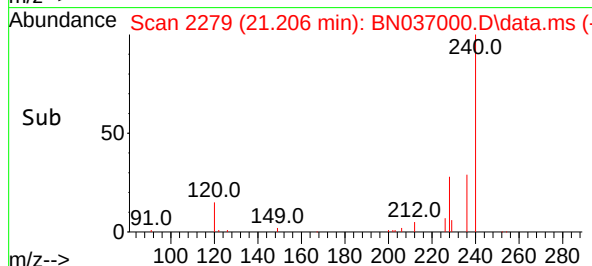
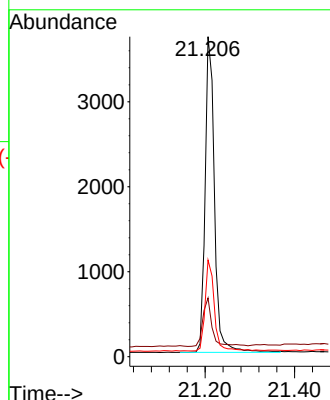
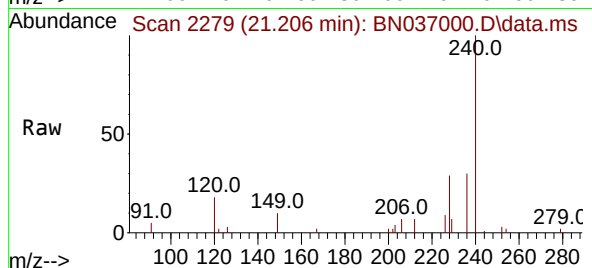
SSTDICC0.2

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 18.3  | 15.1  | 22.7  |
| 236     | 30.2  | 24.0  | 36.0  |

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 05/15/2025  
Supervised By :Jagrut Upadhyay 05/15/2025



#30

Pyrene

Concen: 0.200 ng

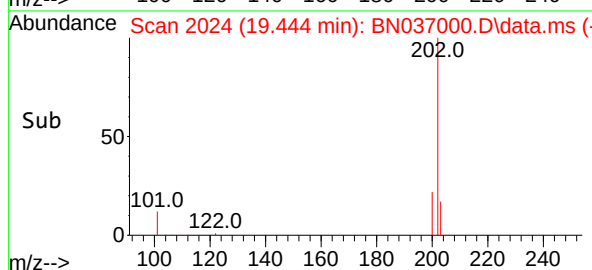
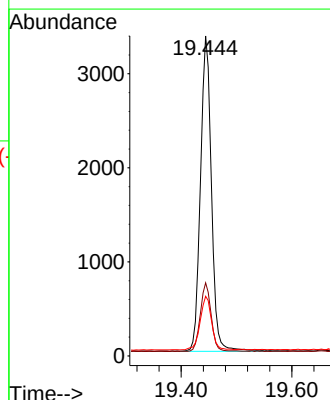
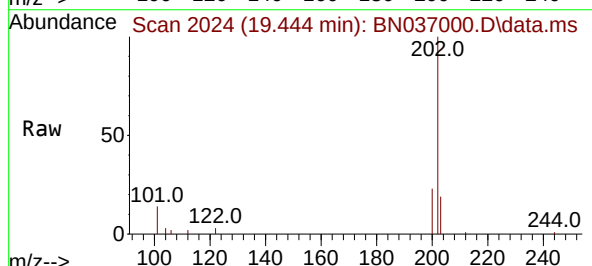
RT: 19.444 min Scan# 2024

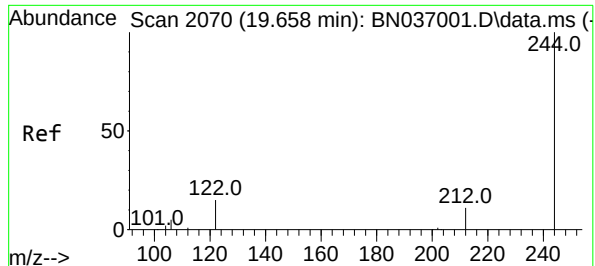
Delta R.T. -0.000 min

Lab File: BN037000.D

Acq: 13 May 2025 18:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 21.3  | 17.1  | 25.7  |
| 203     | 17.7  | 14.2  | 21.4  |





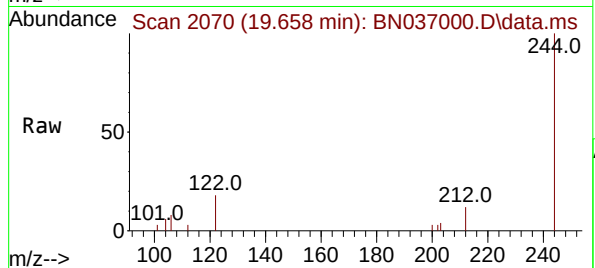
#31  
Terphenyl-d14  
Concen: 0.197 ng  
RT: 19.658 min Scan# 2070  
Delta R.T. -0.000 min  
Lab File: BN037000.D  
Acq: 13 May 2025 18:17

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2

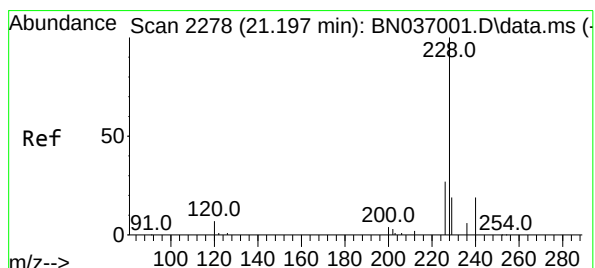
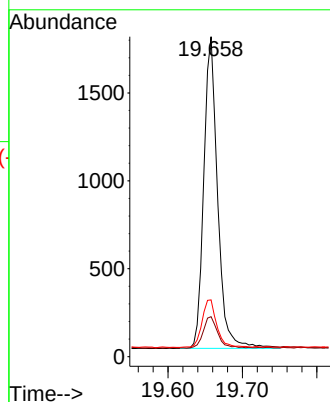
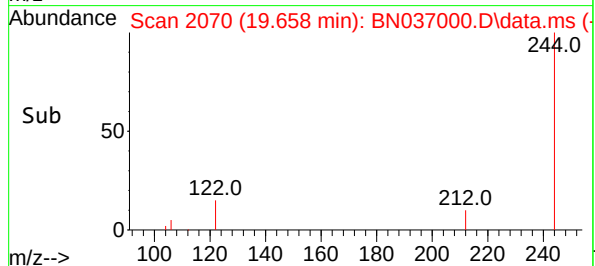


Tgt Ion:244 Resp: 228  
Ion Ratio Lower Upper  
244 100  
212 12.5 9.7 14.5  
122 17.7 13.4 20.0

Manual Integrations

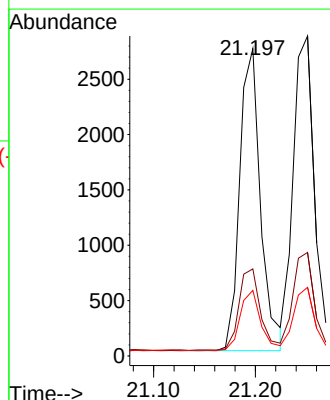
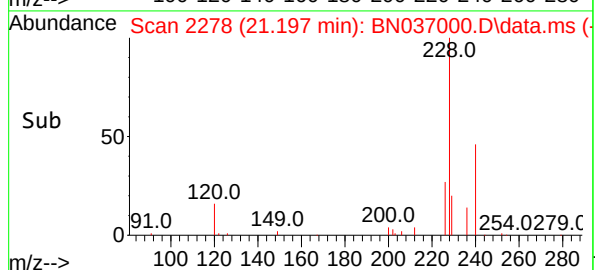
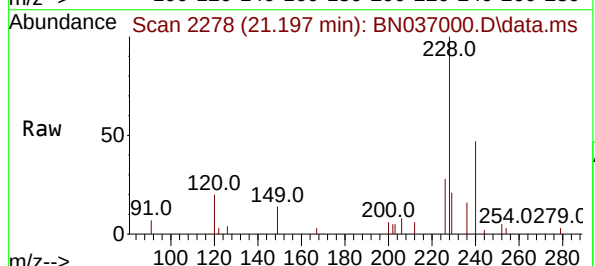
APPROVED

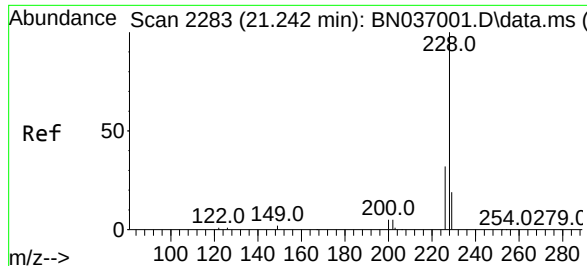
Reviewed By :Rahul Chavli 05/15/2025  
Supervised By :Jagrut Upadhyay 05/15/2025



#32  
Benzo(a)anthracene  
Concen: 0.190 ng  
RT: 21.197 min Scan# 2278  
Delta R.T. -0.000 min  
Lab File: BN037000.D  
Acq: 13 May 2025 18:17

Tgt Ion:228 Resp: 3882  
Ion Ratio Lower Upper  
228 100  
226 28.3 22.2 33.4  
229 21.4 16.0 24.0





#33

Chrysene

Concen: 0.196 ng

RT: 21.251 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN037000.D

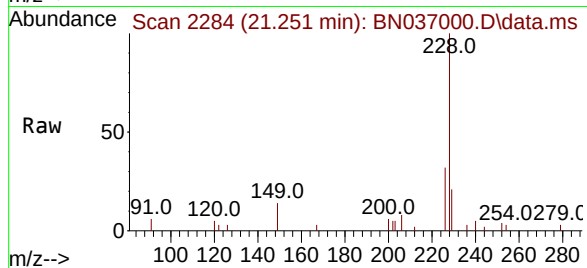
Acq: 13 May 2025 18:17

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2



Tgt Ion:228 Resp: 4220

Ion Ratio Lower Upper

228 100

226 32.3 26.3 39.5

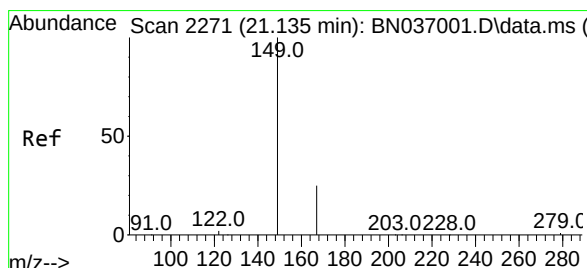
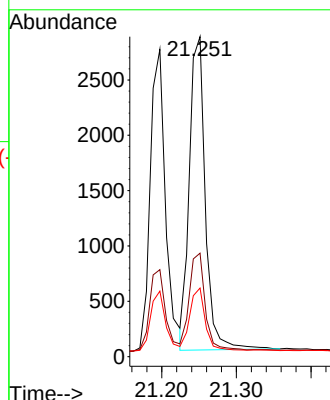
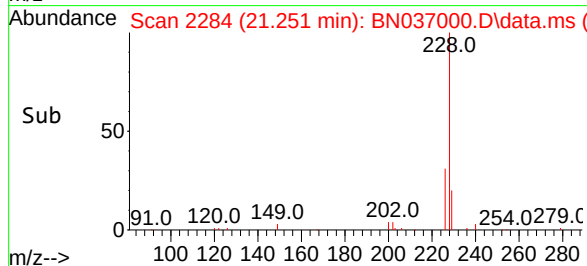
229 21.4 16.2 24.2

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 05/15/2025

Supervised By :Jagrut Upadhyay 05/15/2025



#34

Bis(2-ethylhexyl)phthalate

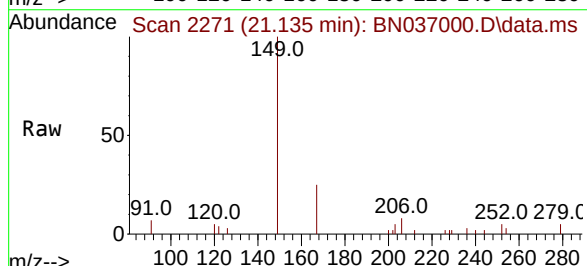
Concen: 0.198 ng

RT: 21.135 min Scan# 2271

Delta R.T. -0.000 min

Lab File: BN037000.D

Acq: 13 May 2025 18:17



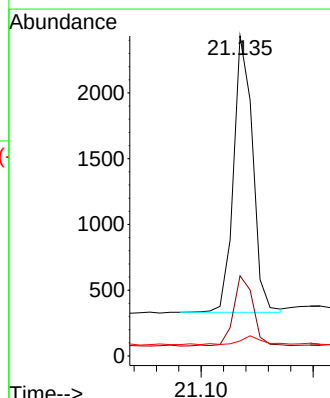
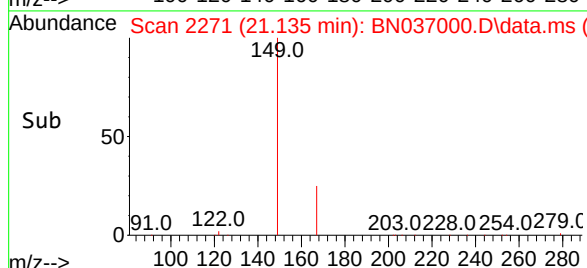
Tgt Ion:149 Resp: 2490

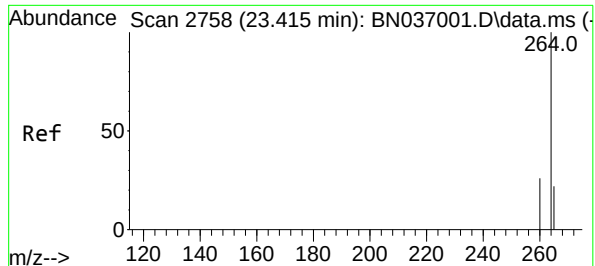
Ion Ratio Lower Upper

149 100

167 26.4 20.6 30.8

279 3.8 2.6 3.8





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.415 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037000.D

Acq: 13 May 2025 18:17

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2

Tgt Ion:264 Resp: 548

Ion Ratio Lower Upper

264 100

260 26.6 21.9 32.9

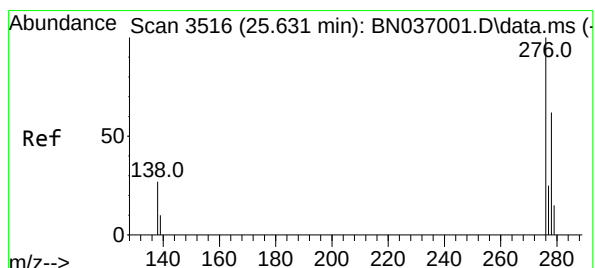
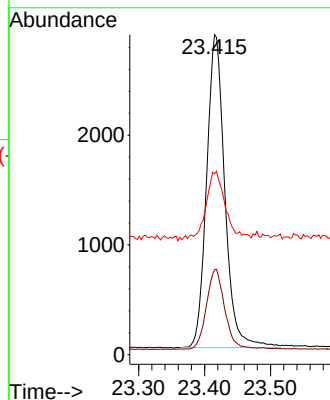
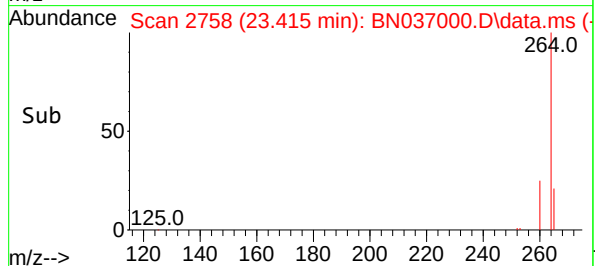
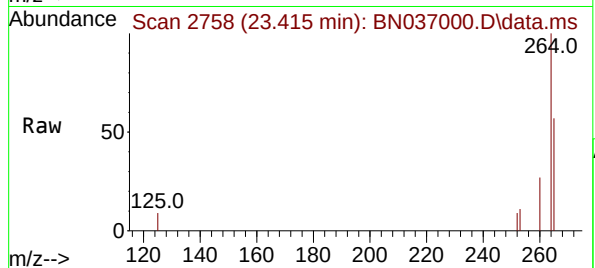
265 56.5 51.6 77.4

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 05/15/2025

Supervised By :Jagrut Upadhyay 05/15/2025



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.198 ng

RT: 25.628 min Scan# 3515

Delta R.T. -0.003 min

Lab File: BN037000.D

Acq: 13 May 2025 18:17

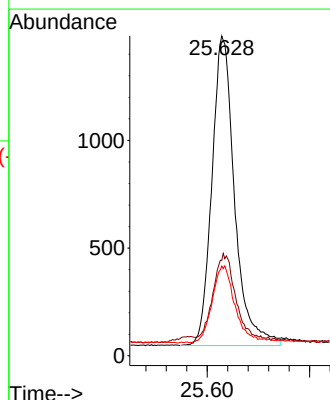
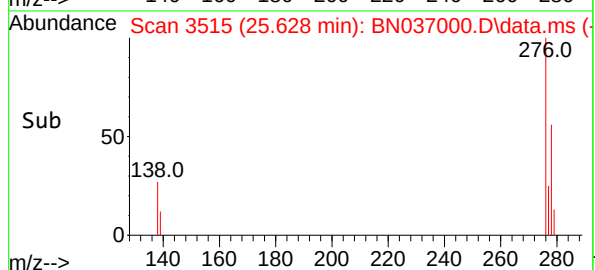
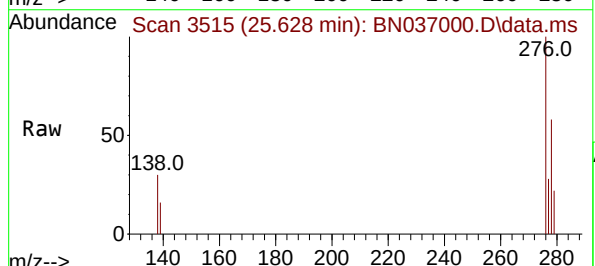
Tgt Ion:276 Resp: 4426

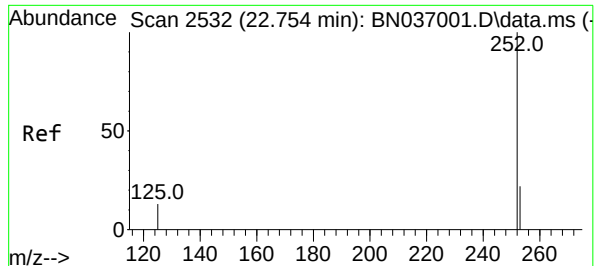
Ion Ratio Lower Upper

276 100

138 27.9 22.7 34.1

277 24.6 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 0.189 ng m

RT: 22.757 min Scan# 2533

Delta R.T. 0.003 min

Lab File: BN037000.D

Acq: 13 May 2025 18:17

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2

Tgt Ion:252 Resp: 4300

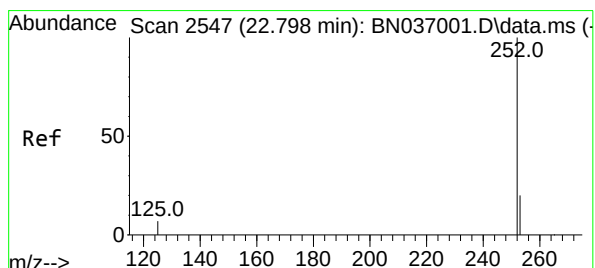
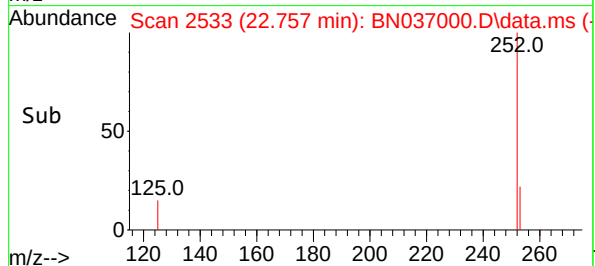
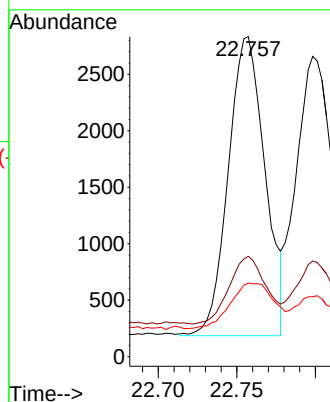
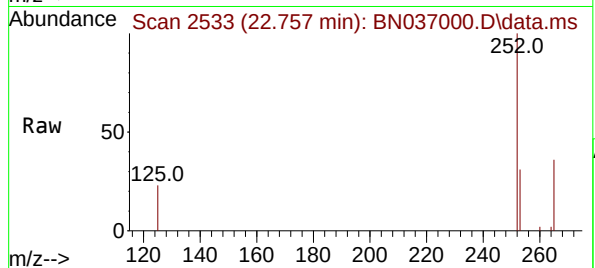
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 31.3  | 21.8  | 32.6  |
| 125 | 23.0  | 14.6  | 21.8  |

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 05/15/2025

Supervised By :Jagrut Upadhyay 05/15/2025



#38

Benzo(k)fluoranthene

Concen: 0.188 ng

RT: 22.798 min Scan# 2547

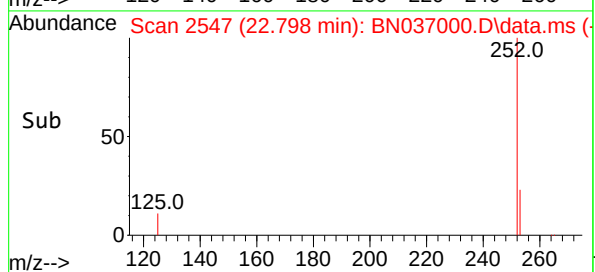
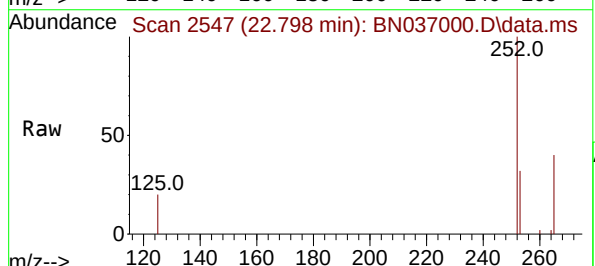
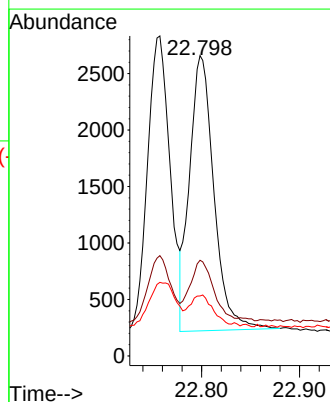
Delta R.T. -0.000 min

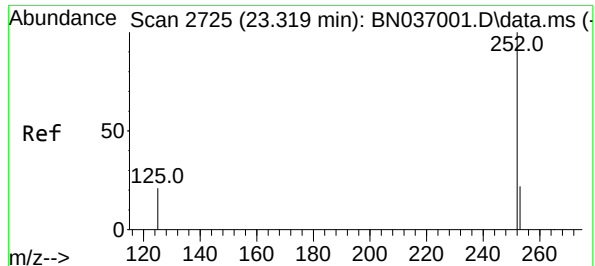
Lab File: BN037000.D

Acq: 13 May 2025 18:17

Tgt Ion:252 Resp: 4219

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 31.9  | 21.4  | 32.2  |
| 125 | 20.0  | 13.0  | 19.4  |





#39

Benzo(a)pyrene

Concen: 0.191 ng

RT: 23.322 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN037000.D

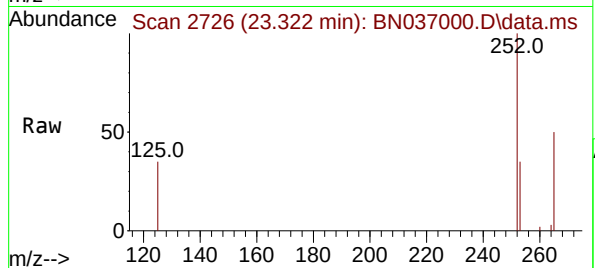
Acq: 13 May 2025 18:17

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2



Tgt Ion:252 Resp: 368

Ion Ratio Lower Upper

252 100

253 34.9 23.8 35.6

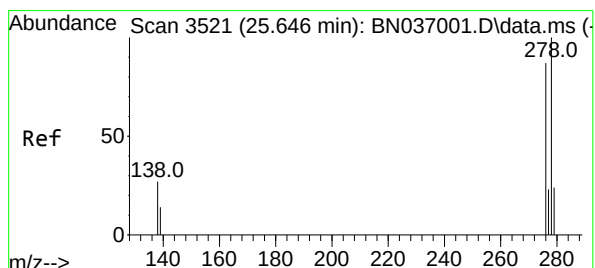
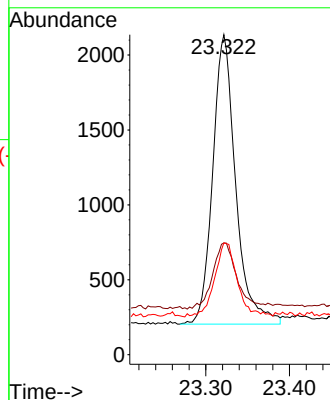
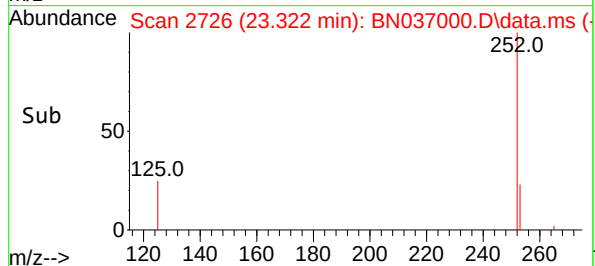
125 35.0 21.8 32.6

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 05/15/2025

Supervised By :Jagrut Upadhyay 05/15/2025



#40

Dibenzo(a,h)anthracene

Concen: 0.194 ng

RT: 25.646 min Scan# 3521

Delta R.T. -0.000 min

Lab File: BN037000.D

Acq: 13 May 2025 18:17

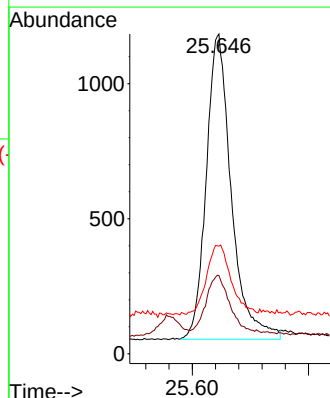
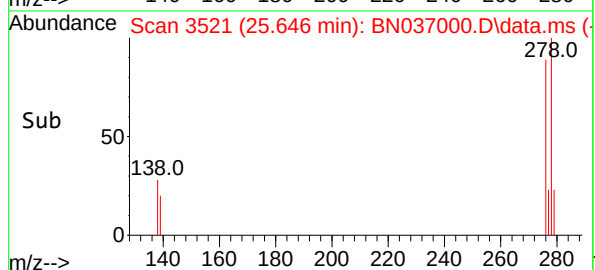
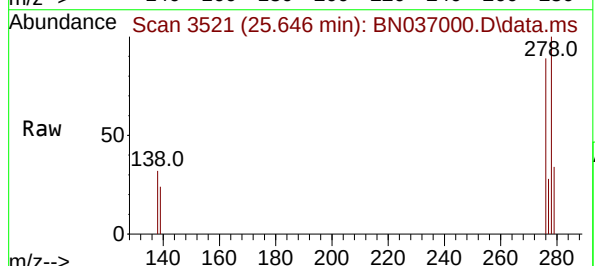
Tgt Ion:278 Resp: 3380

Ion Ratio Lower Upper

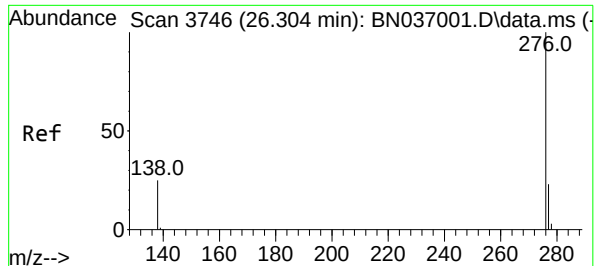
278 100

139 24.5 17.4 26.0

279 33.7 24.6 37.0







#41

Benzo(g,h,i)perylene

Concen: 0.204 ng

RT: 26.301 min Scan# 31

Delta R.T. -0.003 min

Lab File: BN037000.D

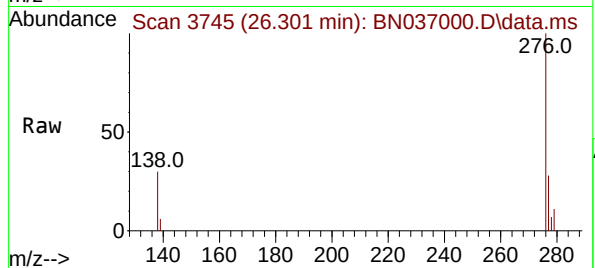
Acq: 13 May 2025 18:17

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2



Tgt Ion:276 Resp: 386

Ion Ratio Lower Upper

276 100

277 27.6 20.2 30.4

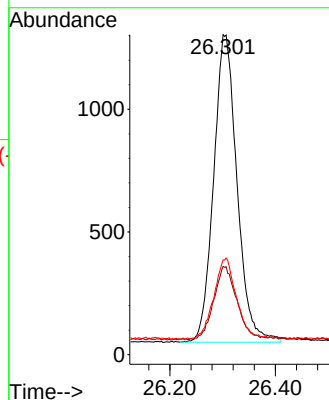
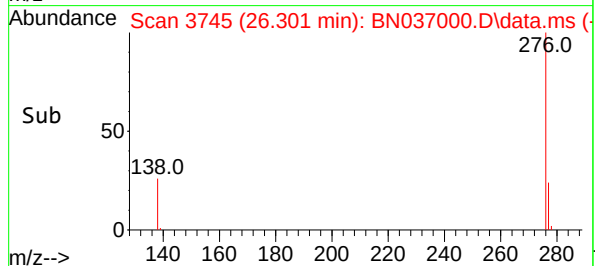
138 29.6 22.0 33.0

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 05/15/2025

Supervised By :Jagrut Upadhyay 05/15/2025



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN051425\  
 Data File : BN037001.D  
 Acq On : 13 May 2025 18:53  
 Operator : RC/JU  
 Sample : SSTDICCC0.4  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICCC0.4

Quant Time: May 14 11:00:35 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN051425.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 14 10:57:36 2025  
 Response via : Initial Calibration

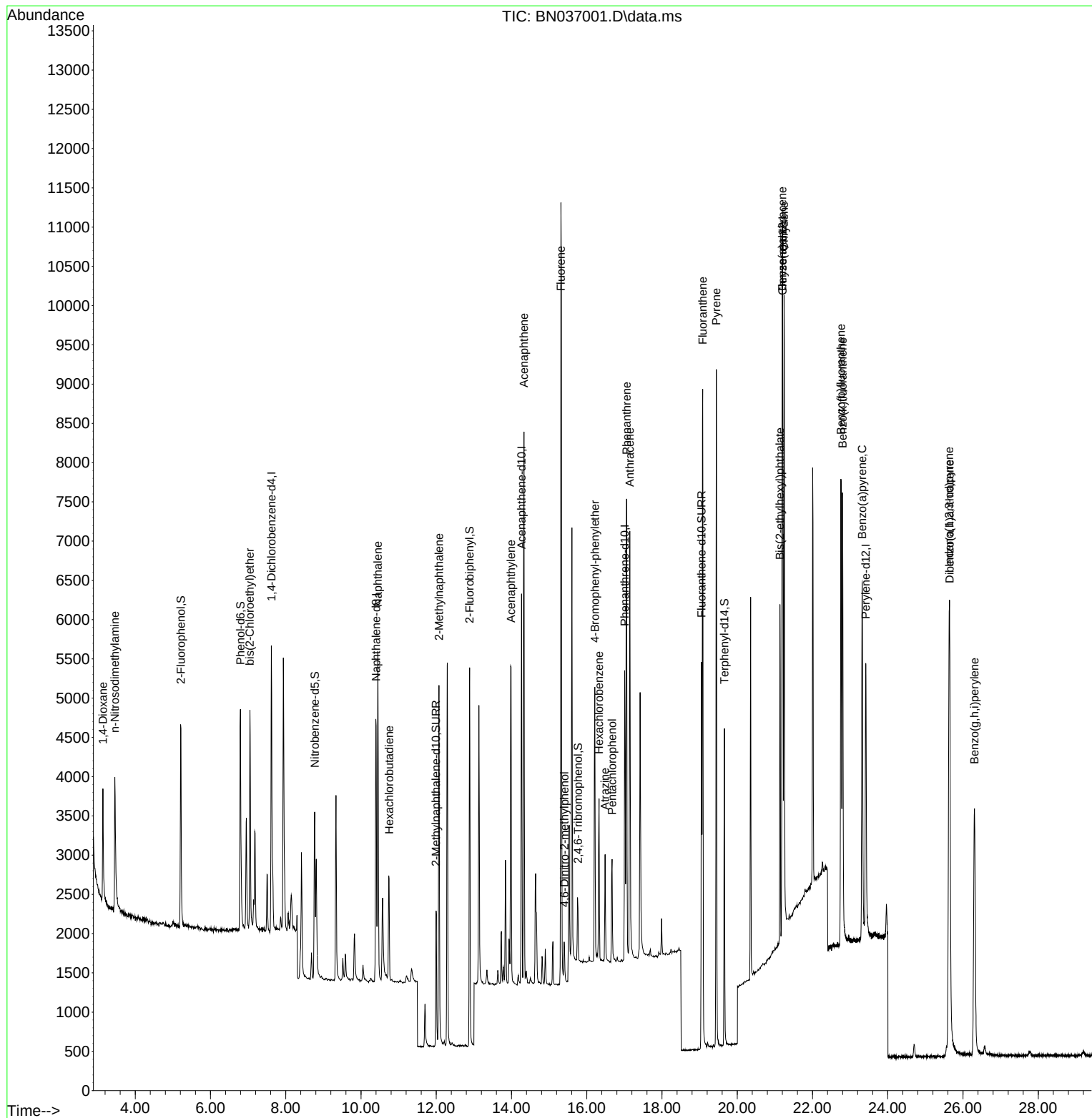
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.618  | 152  | 1733     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.404 | 136  | 4592     | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 14.267 | 164  | 2562     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 17.009 | 188  | 5005     | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 21.206 | 240  | 4458     | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.415 | 264  | 4521     | 0.400 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.213  | 112  | 1966     | 0.433 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.795  | 99   | 2400     | 0.422 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.771  | 82   | 1828     | 0.366 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.996 | 152  | 2535     | 0.392 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.767 | 330  | 455      | 0.404 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.888 | 172  | 4870     | 0.415 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 19.049 | 212  | 5393     | 0.393 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.658 | 244  | 3883     | 0.407 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| Target Compounds              |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.140  | 88   | 888      | 0.418 | ng    | 100      |
| 3) n-Nitrosodimethylamine     | 3.458  | 42   | 1699     | 0.372 | ng    | 99       |
| 6) bis(2-Chloroethyl)ether    | 7.048  | 93   | 1999     | 0.382 | ng    | 100      |
| 9) Naphthalene                | 10.447 | 128  | 5251     | 0.387 | ng    | 100      |
| 10) Hexachlorobutadiene       | 10.746 | 225  | 1119     | 0.393 | ng    | # 100    |
| 12) 2-Methylnaphthalene       | 12.072 | 142  | 3380     | 0.387 | ng    | 100      |
| 16) Acenaphthylene            | 13.989 | 152  | 4852     | 0.389 | ng    | 100      |
| 17) Acenaphthene              | 14.331 | 154  | 3184     | 0.391 | ng    | 100      |
| 18) Fluorene                  | 15.314 | 166  | 4190     | 0.392 | ng    | 100      |
| 20) 4,6-Dinitro-2-methylph... | 15.410 | 198  | 367      | 0.377 | ng    | 100      |
| 21) 4-Bromophenyl-phenylether | 16.214 | 248  | 1252     | 0.396 | ng    | 100      |
| 22) Hexachlorobenzene         | 16.326 | 284  | 1408     | 0.416 | ng    | 100      |
| 23) Atrazine                  | 16.487 | 200  | 1056     | 0.383 | ng    | 100      |
| 24) Pentachlorophenol         | 16.673 | 266  | 706      | 0.376 | ng    | 100      |
| 25) Phenanthrene              | 17.058 | 178  | 6468     | 0.395 | ng    | 100      |
| 26) Anthracene                | 17.145 | 178  | 5835     | 0.392 | ng    | 100      |
| 28) Fluoranthene              | 19.082 | 202  | 7510     | 0.384 | ng    | 100      |
| 30) Pyrene                    | 19.444 | 202  | 7697     | 0.404 | ng    | 100      |
| 32) Benzo(a)anthracene        | 21.197 | 228  | 6620     | 0.394 | ng    | 100      |
| 33) Chrysene                  | 21.242 | 228  | 7204     | 0.406 | ng    | 100      |
| 34) Bis(2-ethylhexyl)phtha... | 21.135 | 149  | 4039     | 0.390 | ng    | 100      |
| 36) Indeno(1,2,3-cd)pyrene    | 25.631 | 276  | 7438     | 0.403 | ng    | 100      |
| 37) Benzo(b)fluoranthene      | 22.754 | 252  | 7242     | 0.386 | ng    | 100      |
| 38) Benzo(k)fluoranthene      | 22.798 | 252  | 7424     | 0.401 | ng    | 100      |
| 39) Benzo(a)pyrene            | 23.319 | 252  | 6245     | 0.393 | ng    | 100      |
| 40) Dibenzo(a,h)anthracene    | 25.646 | 278  | 5753     | 0.400 | ng    | 100      |
| 41) Benzo(g,h,i)perylene      | 26.304 | 276  | 6438     | 0.412 | ng    | 100      |
| -----                         |        |      |          |       |       |          |

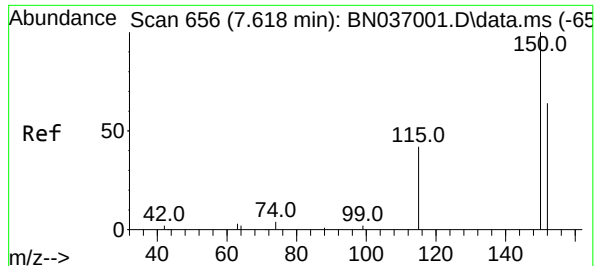
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN051425\  
 Data File : BN037001.D  
 Acq On : 13 May 2025 18:53  
 Operator : RC/JU  
 Sample : SSTDICCC0.4  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICCC0.4

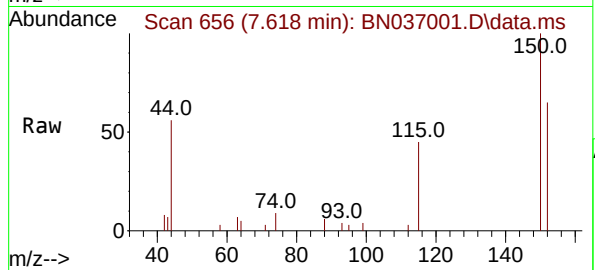
Quant Time: May 14 11:00:35 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN051425.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 14 10:57:36 2025  
 Response via : Initial Calibration



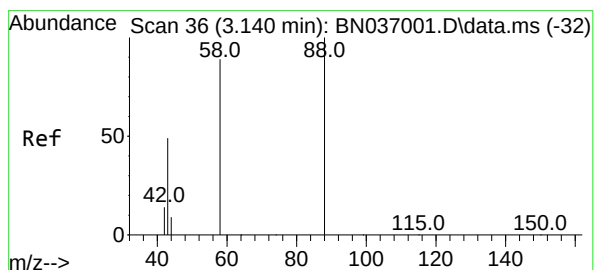
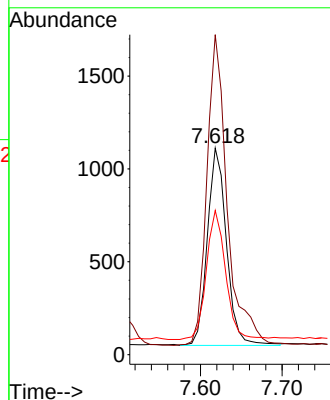
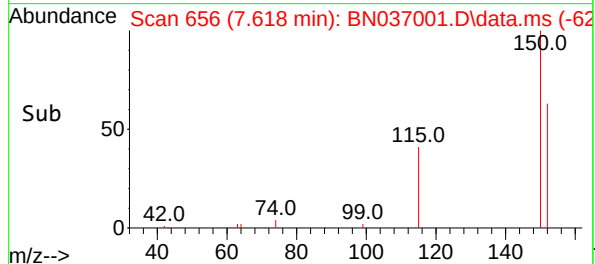


#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.618 min Scan# 61  
Delta R.T. 0.000 min  
Lab File: BN037001.D  
Acq: 13 May 2025 18:53

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

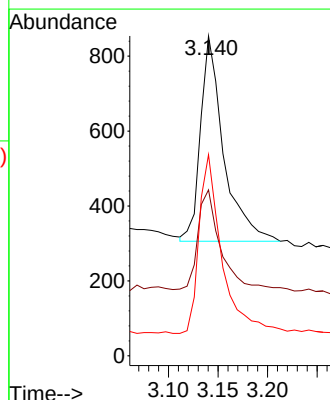
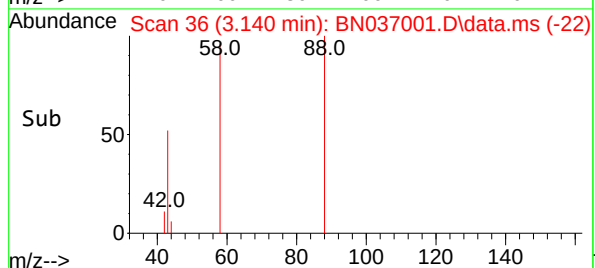
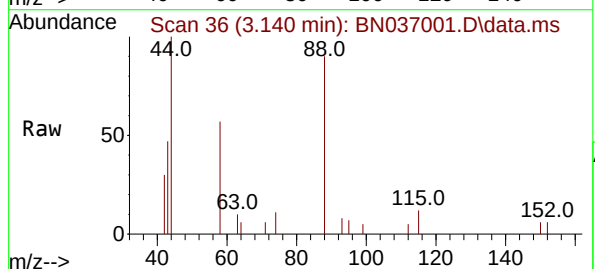


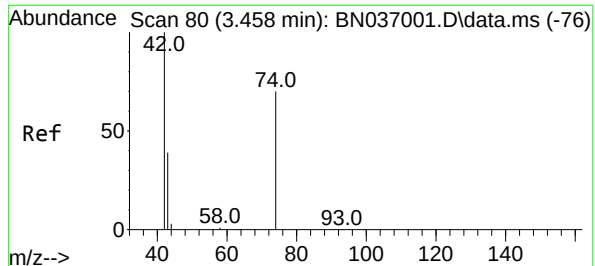
Tgt Ion:152 Resp: 1733  
Ion Ratio Lower Upper  
152 100  
150 154.9 123.9 185.9  
115 69.8 55.8 83.8



#2  
1,4-Dioxane  
Concen: 0.418 ng  
RT: 3.140 min Scan# 36  
Delta R.T. 0.000 min  
Lab File: BN037001.D  
Acq: 13 May 2025 18:53

Tgt Ion: 88 Resp: 888  
Ion Ratio Lower Upper  
88 100  
43 46.7 37.4 56.0  
58 86.0 68.8 103.2

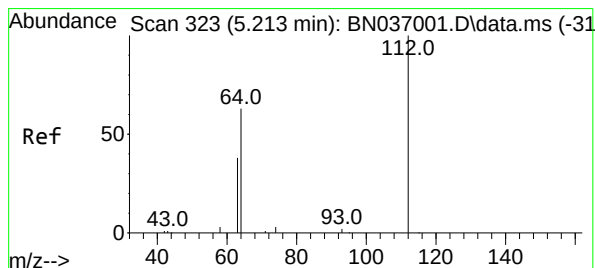
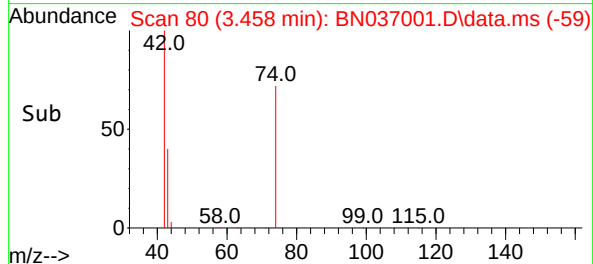
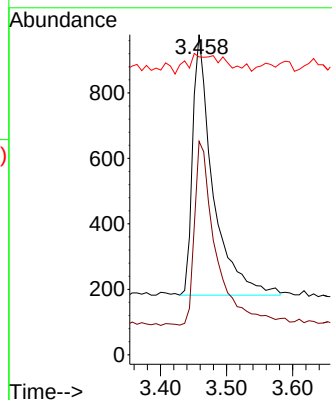
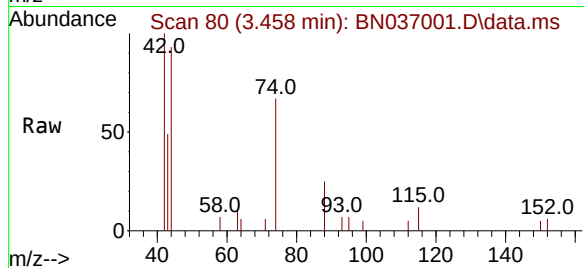




#3  
n-Nitrosodimethylamine  
Concen: 0.372 ng  
RT: 3.458 min Scan# 80  
Delta R.T. 0.000 min  
Lab File: BN037001.D  
Acq: 13 May 2025 18:53

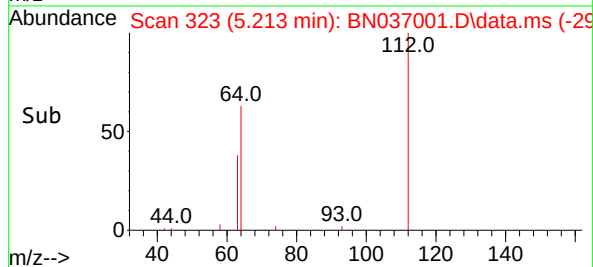
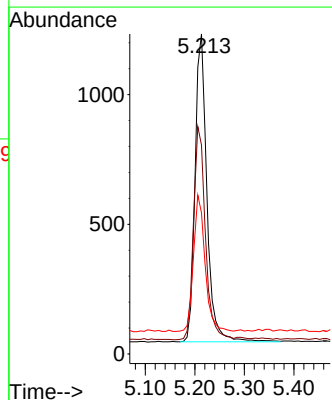
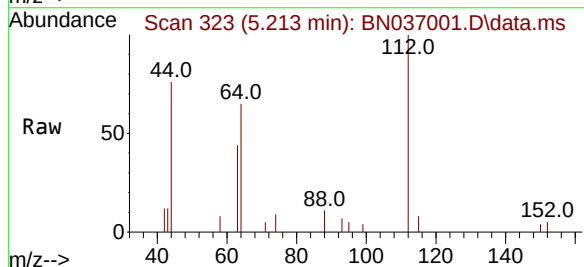
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

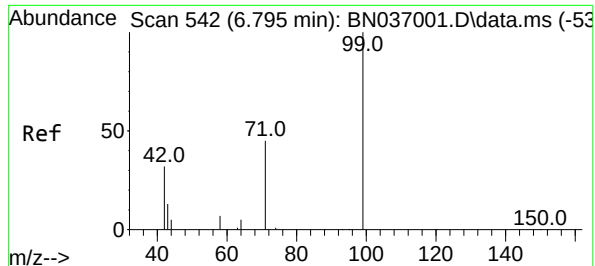
Tgt Ion: 42 Resp: 1699  
Ion Ratio Lower Upper  
42 100  
74 74.2 59.8 89.6  
44 14.8 11.9 17.9



#4  
2-Fluorophenol  
Concen: 0.433 ng  
RT: 5.213 min Scan# 323  
Delta R.T. 0.000 min  
Lab File: BN037001.D  
Acq: 13 May 2025 18:53

Tgt Ion: 112 Resp: 1966  
Ion Ratio Lower Upper  
112 100  
64 69.6 55.7 83.5  
63 43.2 34.6 51.8

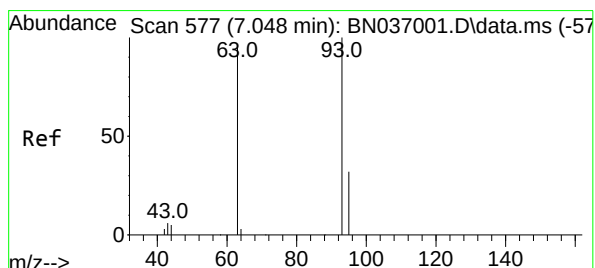
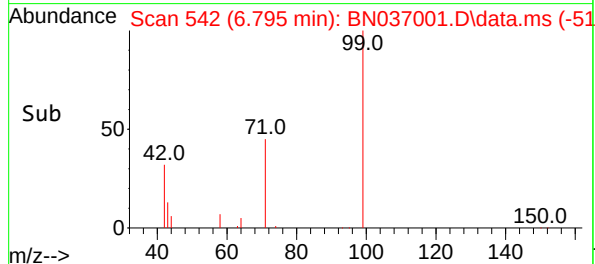
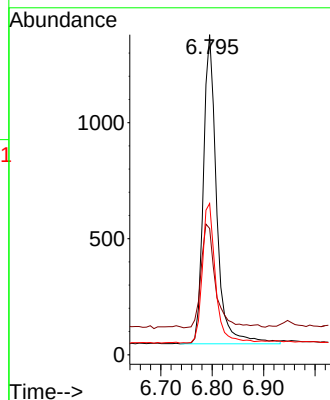
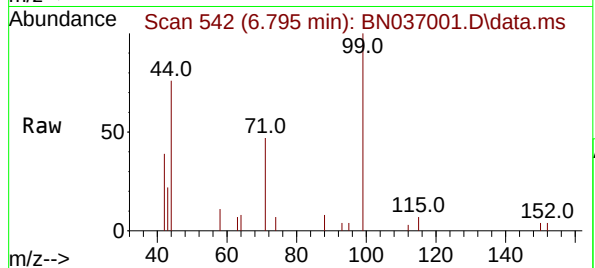




#5  
Phenol-d6  
Concen: 0.422 ng  
RT: 6.795 min Scan# 542  
Delta R.T. -0.000 min  
Lab File: BN037001.D  
Acq: 13 May 2025 18:53

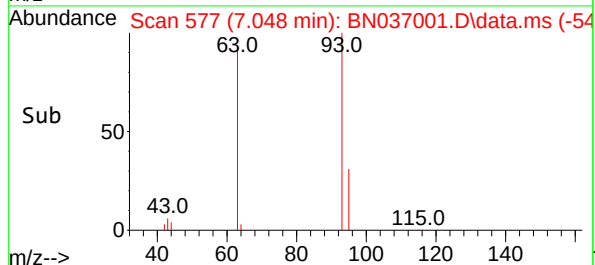
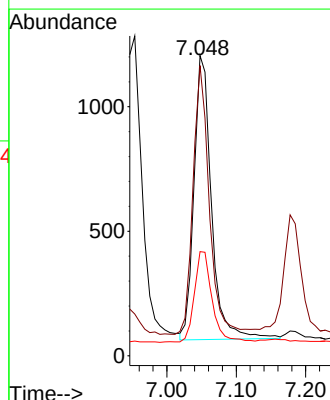
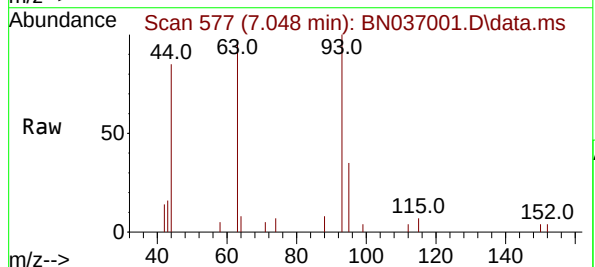
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

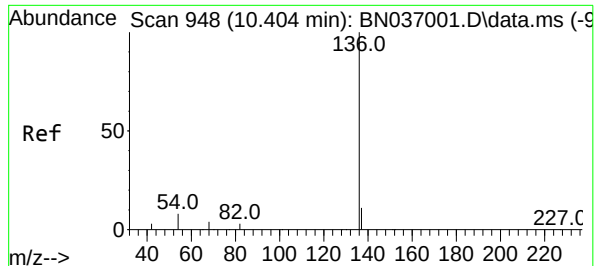
Tgt Ion: 99 Resp: 2400  
Ion Ratio Lower Upper  
99 100  
42 36.6 29.3 43.9  
71 44.6 35.7 53.5



#6  
bis(2-Chloroethyl)ether  
Concen: 0.382 ng  
RT: 7.048 min Scan# 577  
Delta R.T. 0.000 min  
Lab File: BN037001.D  
Acq: 13 May 2025 18:53

Tgt Ion: 93 Resp: 1999  
Ion Ratio Lower Upper  
93 100  
63 87.6 70.1 105.1  
95 32.7 26.2 39.2

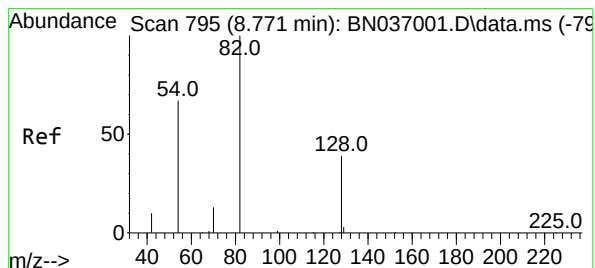
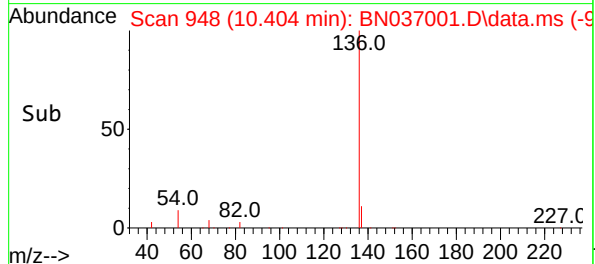
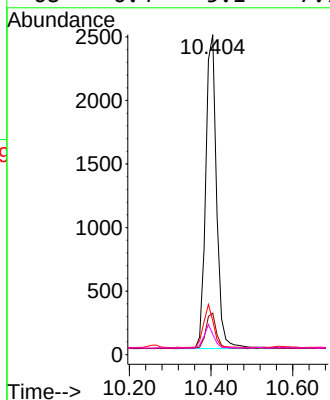
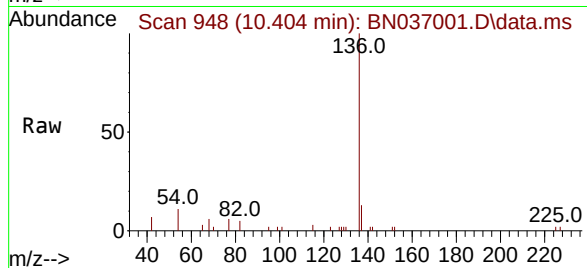




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.404 min Scan# 948  
Delta R.T. 0.000 min  
Lab File: BN037001.D  
Acq: 13 May 2025 18:53

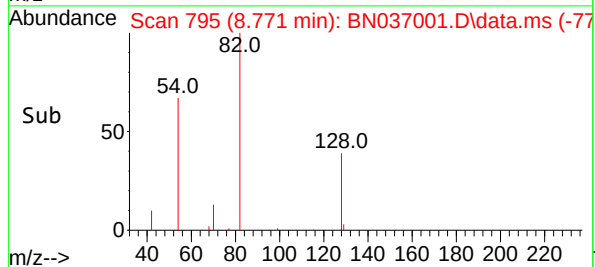
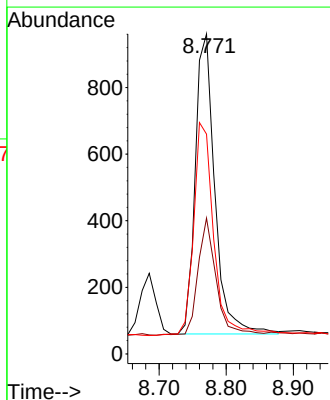
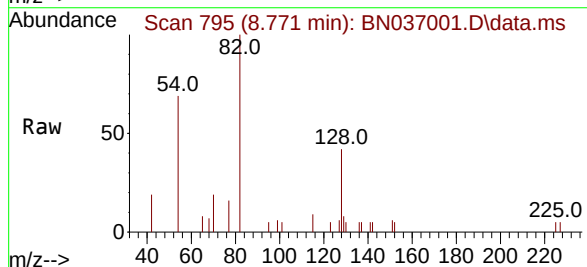
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

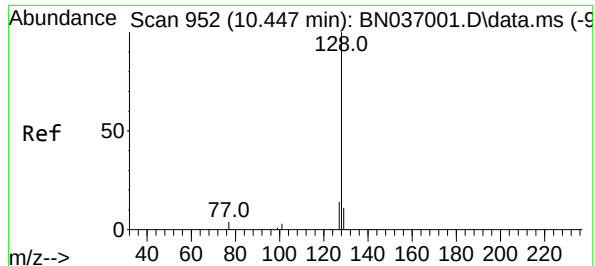
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 4592  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 13.0  | 10.4  | 15.6  |
| 54       | 10.6  | 8.5   | 12.7  |
| 68       | 6.4   | 5.1   | 7.7   |



#8  
Nitrobenzene-d5  
Concen: 0.366 ng  
RT: 8.771 min Scan# 795  
Delta R.T. 0.000 min  
Lab File: BN037001.D  
Acq: 13 May 2025 18:53

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 1828  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 42.5  | 34.0  | 51.0  |
| 54       | 68.7  | 55.0  | 82.4  |





#9

Naphthalene

Concen: 0.387 ng

RT: 10.447 min Scan# 952

Delta R.T. 0.000 min

Lab File: BN037001.D

Acq: 13 May 2025 18:53

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

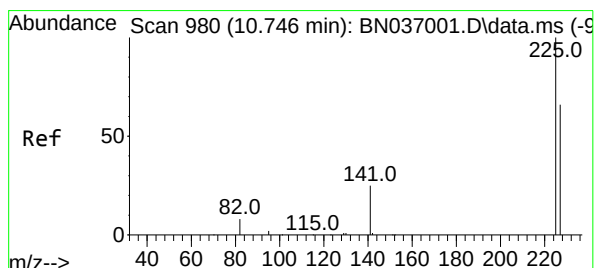
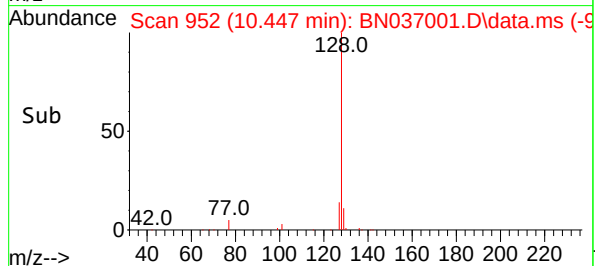
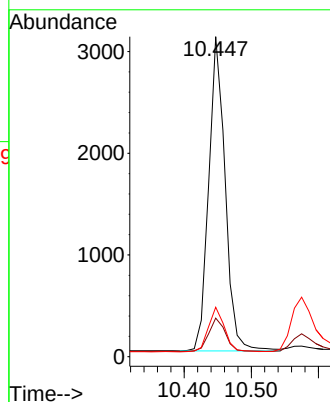
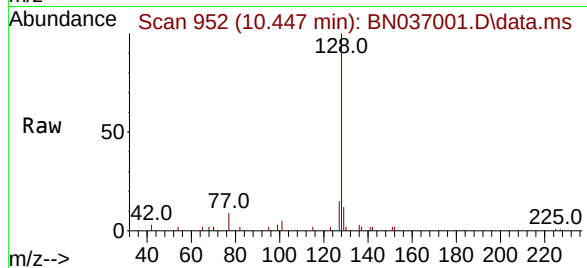
Tgt Ion:128 Resp: 5251

Ion Ratio Lower Upper

128 100

129 12.1 9.7 14.5

127 15.5 12.4 18.6



#10

Hexachlorobutadiene

Concen: 0.393 ng

RT: 10.746 min Scan# 980

Delta R.T. 0.000 min

Lab File: BN037001.D

Acq: 13 May 2025 18:53

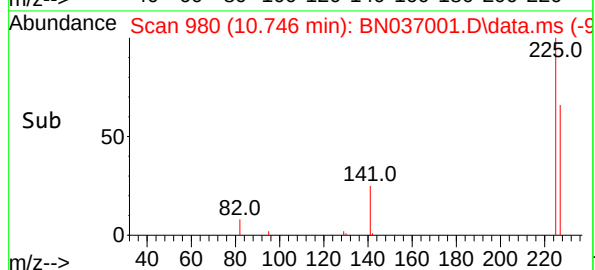
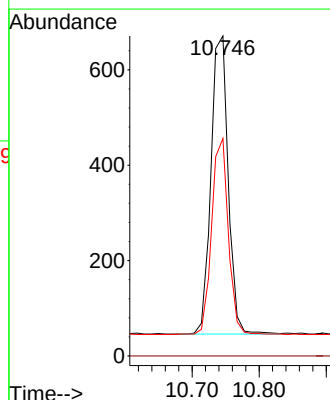
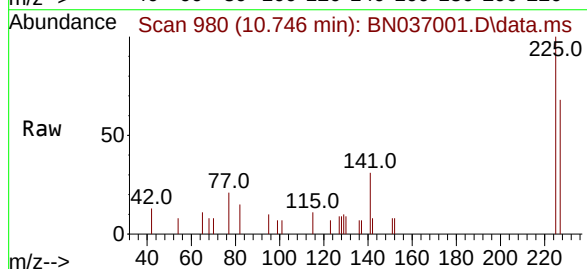
Tgt Ion:225 Resp: 1119

Ion Ratio Lower Upper

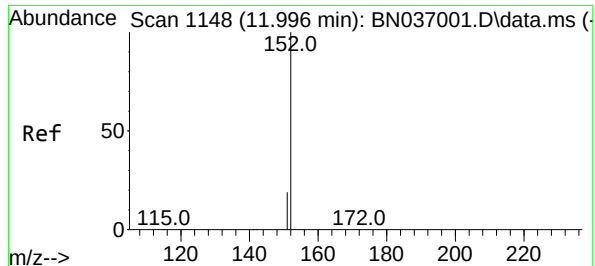
225 100

223 0.0 0.0 0.0

227 63.6 50.9 76.3



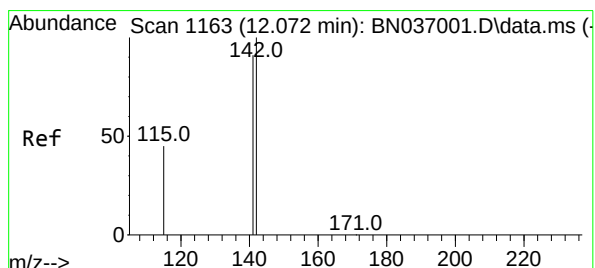
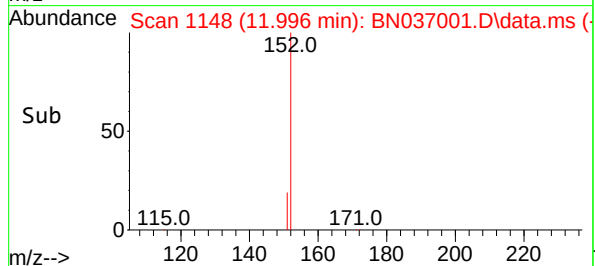
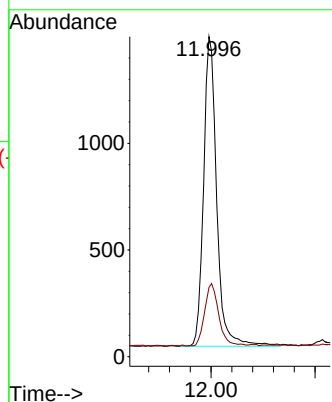
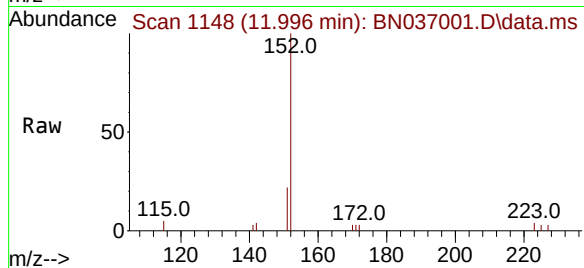




#11  
2-Methylnaphthalene-d10  
Concen: 0.392 ng  
RT: 11.996 min Scan# 1148  
Delta R.T. 0.000 min  
Lab File: BN037001.D  
Acq: 13 May 2025 18:53

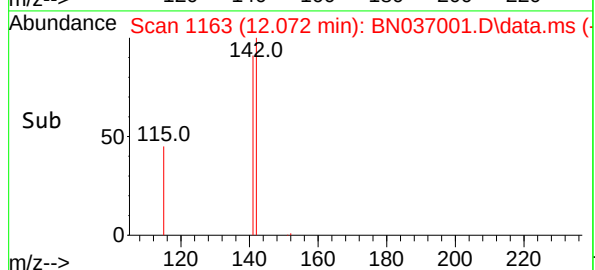
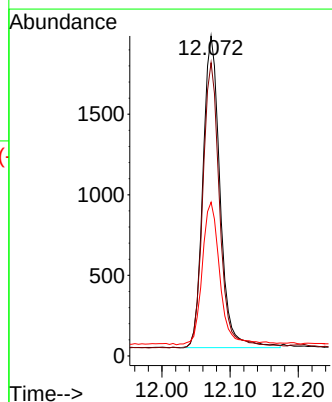
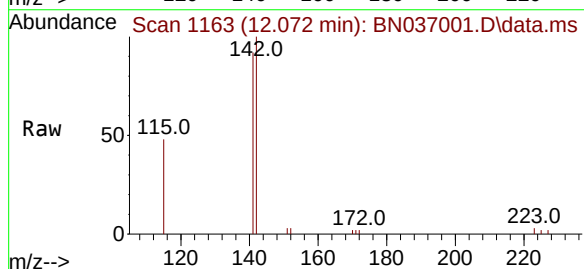
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

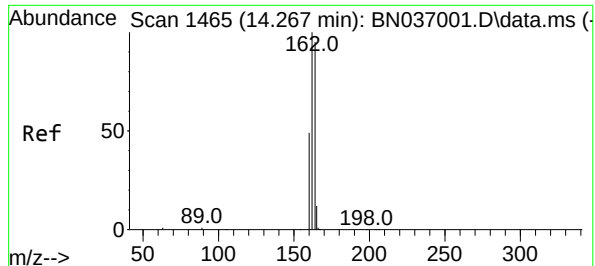
Tgt Ion:152 Resp: 2535  
Ion Ratio Lower Upper  
152 100  
151 21.9 17.5 26.3



#12  
2-Methylnaphthalene  
Concen: 0.387 ng  
RT: 12.072 min Scan# 1163  
Delta R.T. 0.000 min  
Lab File: BN037001.D  
Acq: 13 May 2025 18:53

Tgt Ion:142 Resp: 3380  
Ion Ratio Lower Upper  
142 100  
141 91.6 73.3 109.9  
115 48.0 38.4 57.6

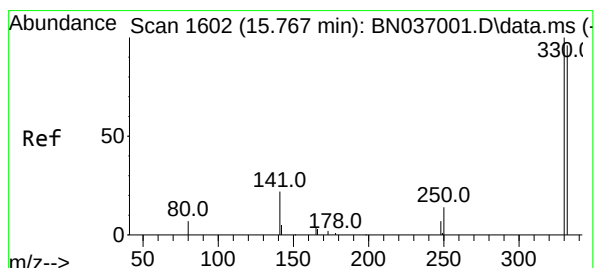
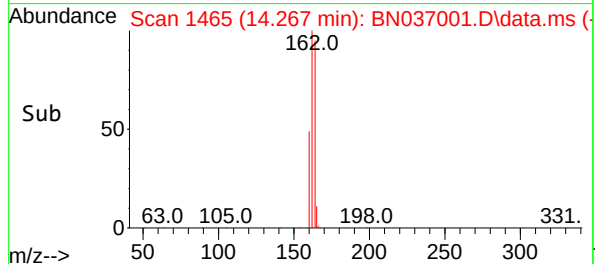
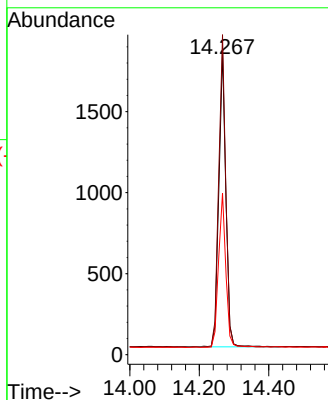
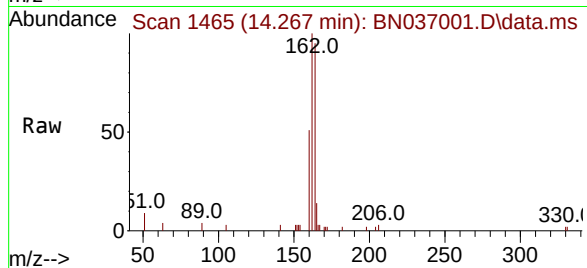




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.267 min Scan# 1465  
Delta R.T. 0.000 min  
Lab File: BN037001.D  
Acq: 13 May 2025 18:53

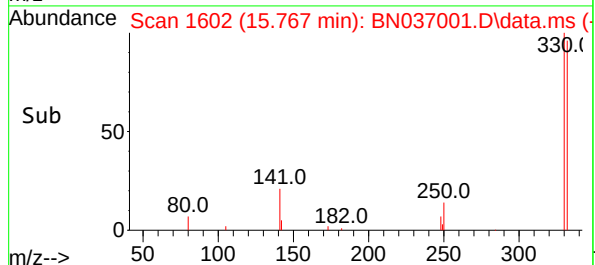
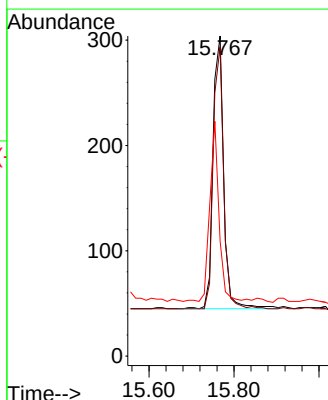
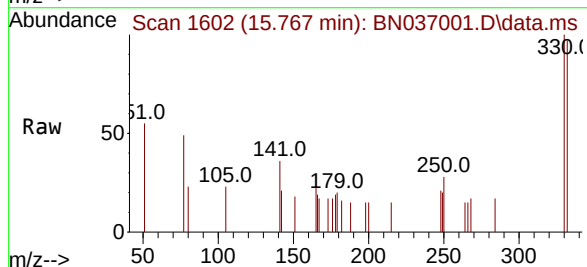
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

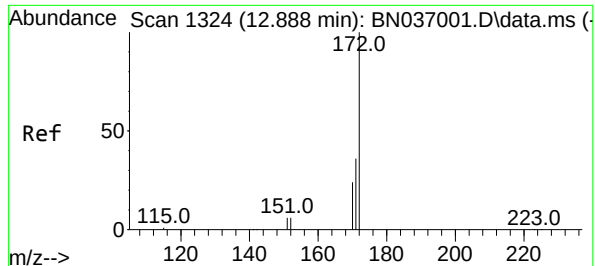
| Tgt Ion   | 164  | 162   | 160  |
|-----------|------|-------|------|
| Resp:     | 2562 |       |      |
| Ion Ratio | 100  | 105.3 | 53.2 |
| Lower     |      | 84.2  | 42.6 |
| Upper     |      | 126.4 | 63.8 |



#14  
2,4,6-Tribromophenol  
Concen: 0.404 ng  
RT: 15.767 min Scan# 1602  
Delta R.T. 0.000 min  
Lab File: BN037001.D  
Acq: 13 May 2025 18:53

| Tgt Ion   | 330 | 332   | 141  |
|-----------|-----|-------|------|
| Resp:     | 455 |       |      |
| Ion Ratio | 100 | 92.3  | 54.9 |
| Lower     |     | 73.8  | 43.9 |
| Upper     |     | 110.8 | 65.9 |





#15

2-Fluorobiphenyl

Concen: 0.415 ng

RT: 12.888 min Scan# 11

Delta R.T. 0.000 min

Lab File: BN037001.D

Acq: 13 May 2025 18:53

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

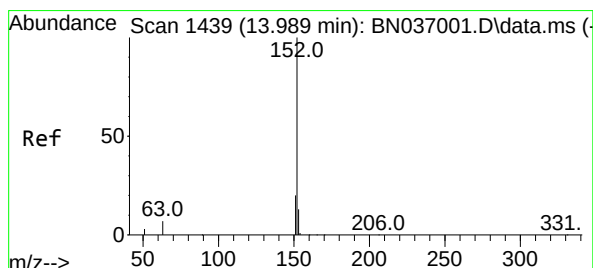
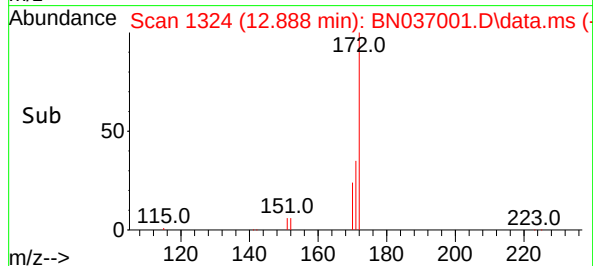
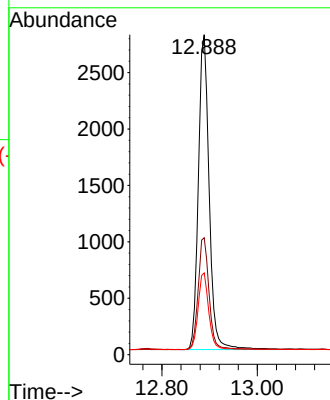
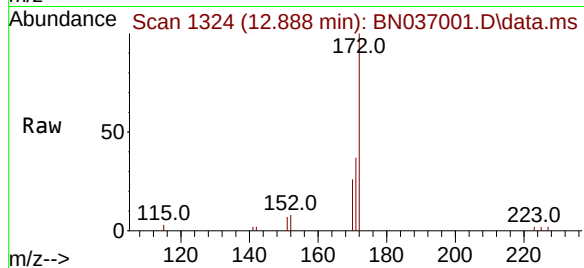
Tgt Ion:172 Resp: 4870

Ion Ratio Lower Upper

172 100

171 36.5 29.2 43.8

170 25.6 20.5 30.7



#16

Acenaphthylene

Concen: 0.389 ng

RT: 13.989 min Scan# 1439

Delta R.T. 0.000 min

Lab File: BN037001.D

Acq: 13 May 2025 18:53

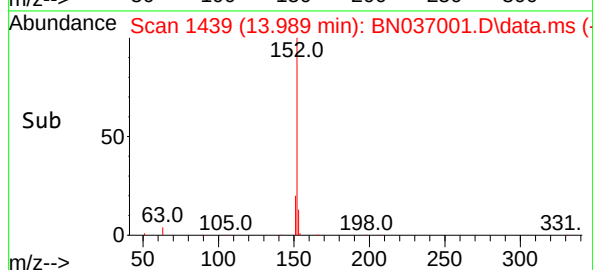
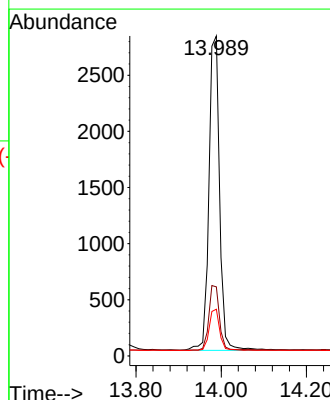
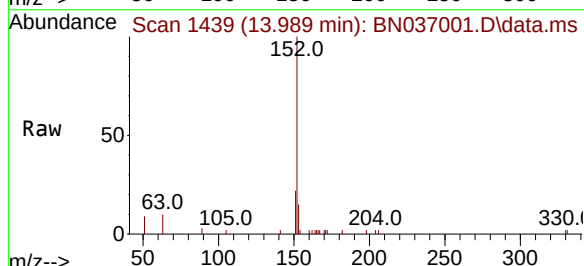
Tgt Ion:152 Resp: 4852

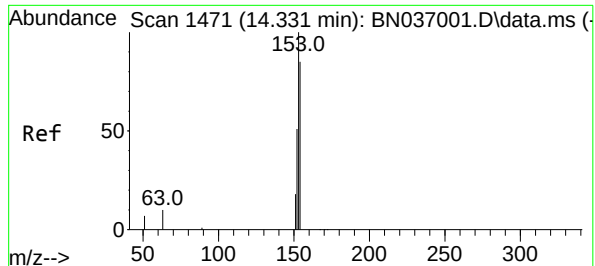
Ion Ratio Lower Upper

152 100

151 20.1 16.1 24.1

153 13.1 10.5 15.7





#17

Acenaphthene

Concen: 0.391 ng

RT: 14.331 min Scan# 1471

Delta R.T. 0.000 min

Lab File: BN037001.D

Acq: 13 May 2025 18:53

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

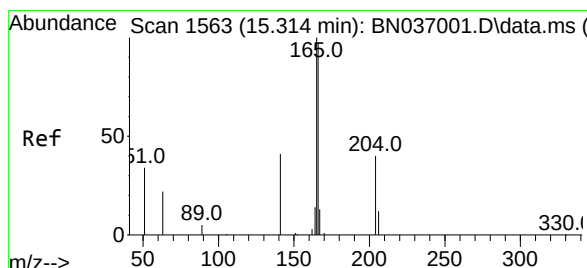
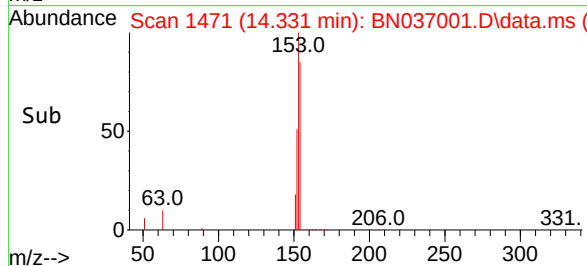
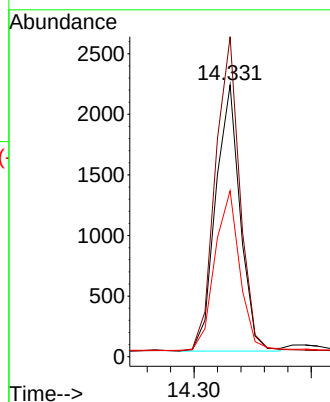
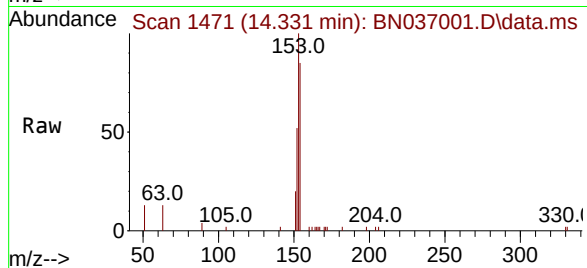
Tgt Ion:154 Resp: 3184

Ion Ratio Lower Upper

154 100

153 117.8 94.2 141.4

152 61.7 49.4 74.0



#18

Fluorene

Concen: 0.392 ng

RT: 15.314 min Scan# 1563

Delta R.T. 0.000 min

Lab File: BN037001.D

Acq: 13 May 2025 18:53

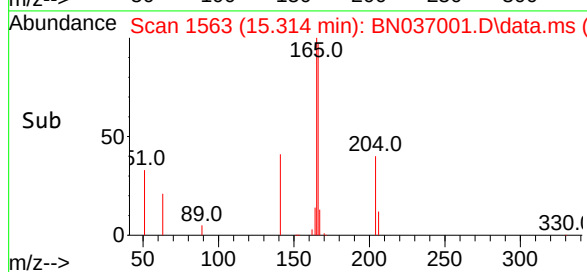
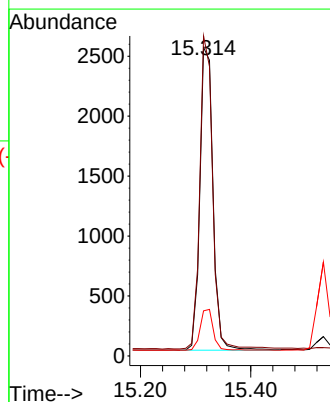
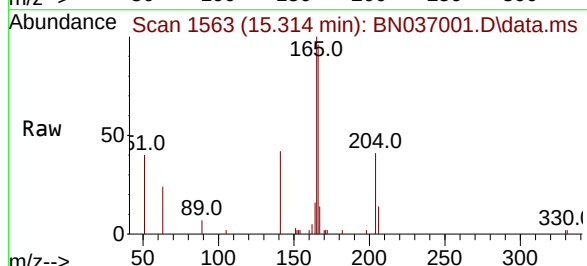
Tgt Ion:166 Resp: 4190

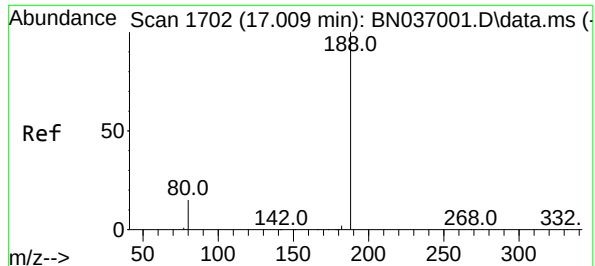
Ion Ratio Lower Upper

166 100

165 100.7 80.6 120.8

167 13.3 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.009 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037001.D

Acq: 13 May 2025 18:53

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

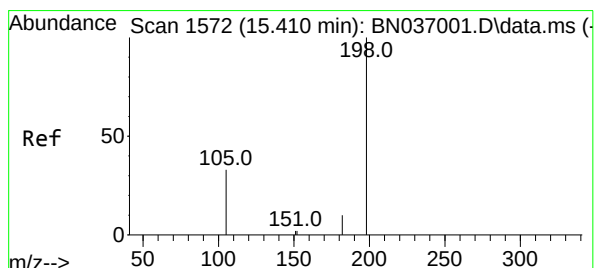
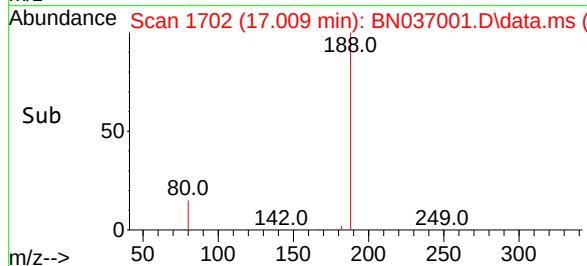
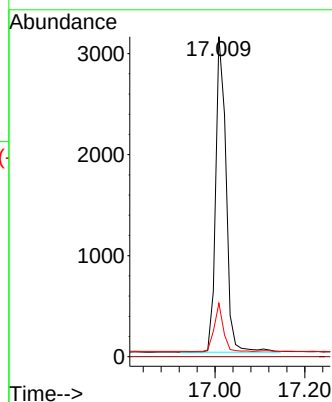
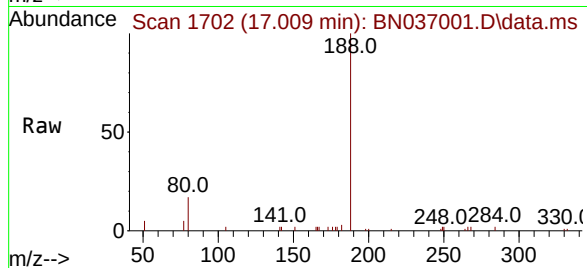
Tgt Ion:188 Resp: 5005

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 16.7 13.4 20.0



#20

4,6-Dinitro-2-methylphenol

Concen: 0.377 ng

RT: 15.410 min Scan# 1572

Delta R.T. 0.000 min

Lab File: BN037001.D

Acq: 13 May 2025 18:53

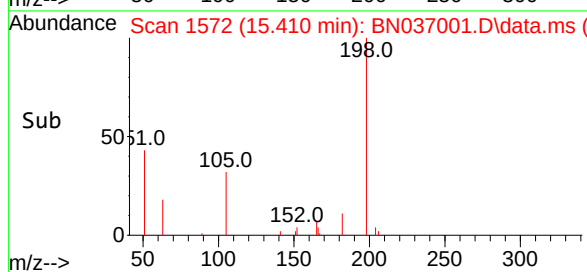
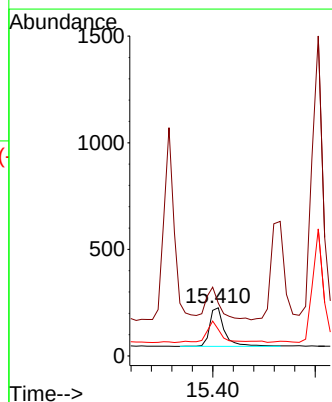
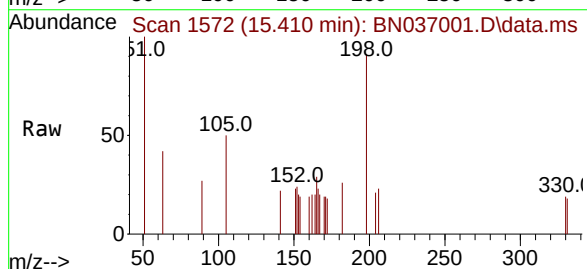
Tgt Ion:198 Resp: 367

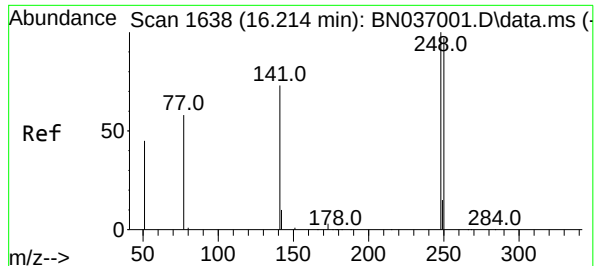
Ion Ratio Lower Upper

198 100

51 109.7 87.8 131.6

105 55.3 44.2 66.4

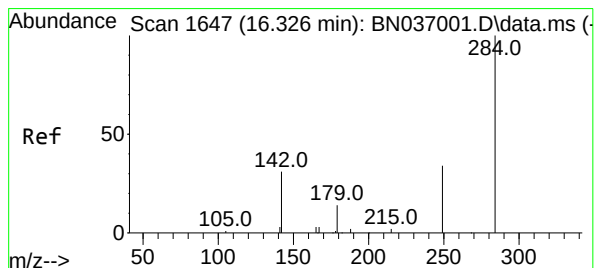
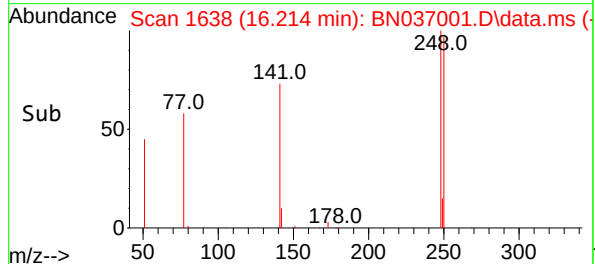
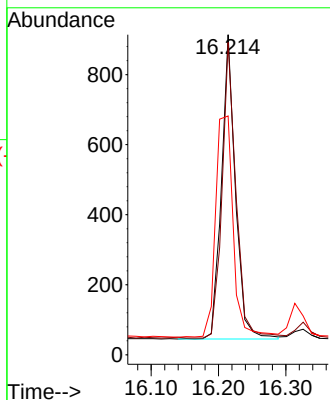
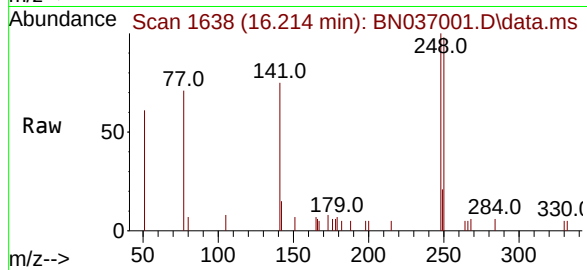




#21  
4-Bromophenyl-phenylether  
Concen: 0.396 ng  
RT: 16.214 min Scan# 1638  
Delta R.T. 0.000 min  
Lab File: BN037001.D  
Acq: 13 May 2025 18:53

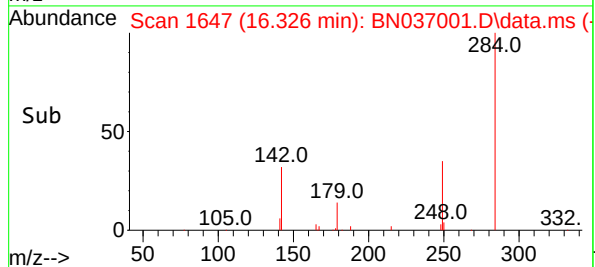
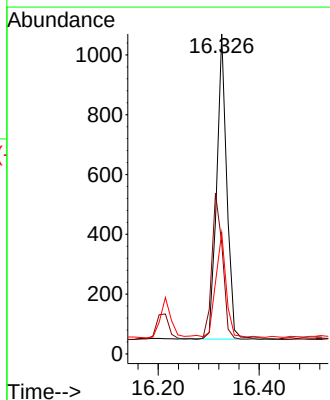
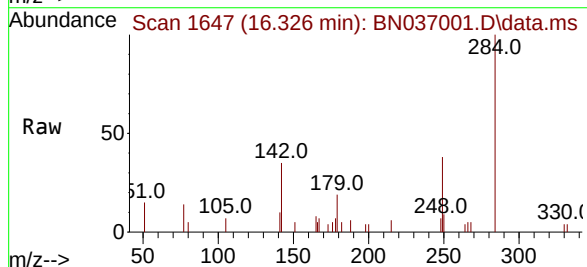
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

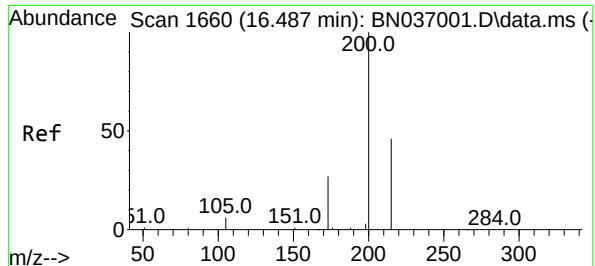
Tgt Ion:248 Resp: 1252  
Ion Ratio Lower Upper  
248 100  
250 97.6 78.1 117.1  
141 74.6 59.7 89.5



#22  
Hexachlorobenzene  
Concen: 0.416 ng  
RT: 16.326 min Scan# 1647  
Delta R.T. 0.000 min  
Lab File: BN037001.D  
Acq: 13 May 2025 18:53

Tgt Ion:284 Resp: 1408  
Ion Ratio Lower Upper  
284 100  
142 51.5 41.2 61.8  
249 35.9 28.7 43.1

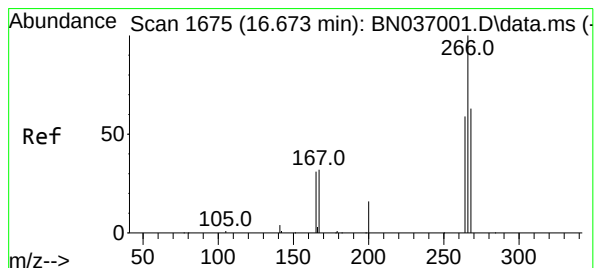
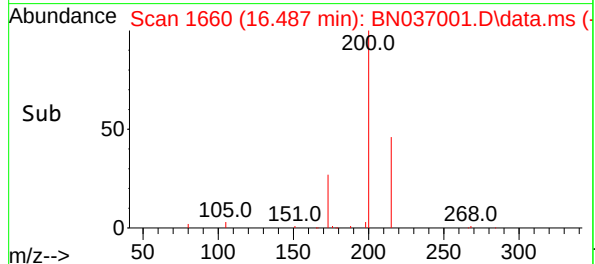
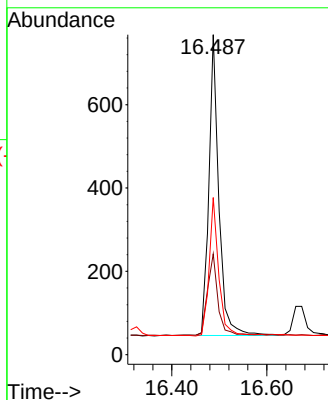
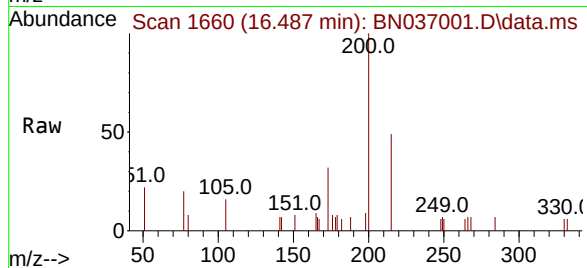




#23  
Atrazine  
Concen: 0.383 ng  
RT: 16.487 min Scan# 1660  
Delta R.T. 0.000 min  
Lab File: BN037001.D  
Acq: 13 May 2025 18:53

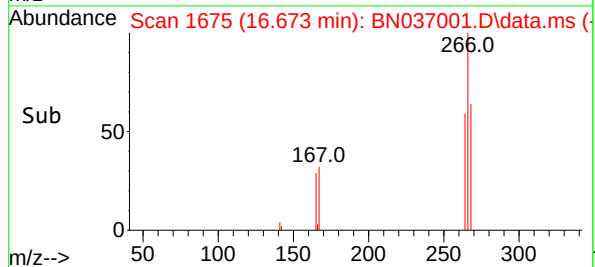
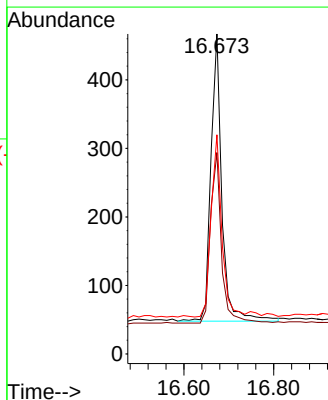
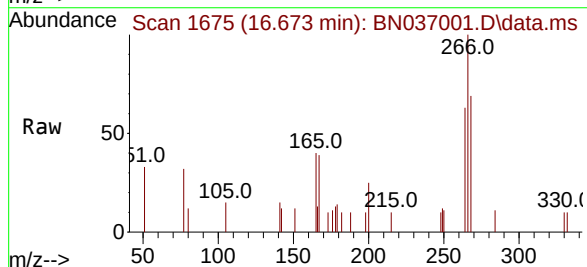
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

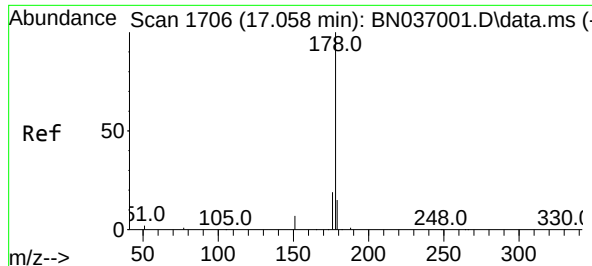
| Tgt Ion   | 200   | Resp: | 1056 |
|-----------|-------|-------|------|
| Ion Ratio | Lower | Upper |      |
| 200       | 100   |       |      |
| 173       | 31.5  | 25.2  | 37.8 |
| 215       | 49.1  | 39.3  | 58.9 |



#24  
Pentachlorophenol  
Concen: 0.376 ng  
RT: 16.673 min Scan# 1675  
Delta R.T. 0.000 min  
Lab File: BN037001.D  
Acq: 13 May 2025 18:53

| Tgt Ion   | 266   | Resp: | 706  |
|-----------|-------|-------|------|
| Ion Ratio | Lower | Upper |      |
| 266       | 100   |       |      |
| 264       | 59.9  | 47.9  | 71.9 |
| 268       | 62.5  | 50.0  | 75.0 |

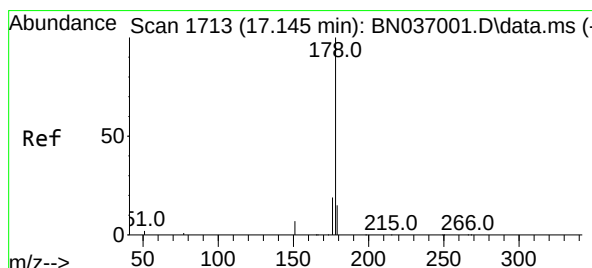
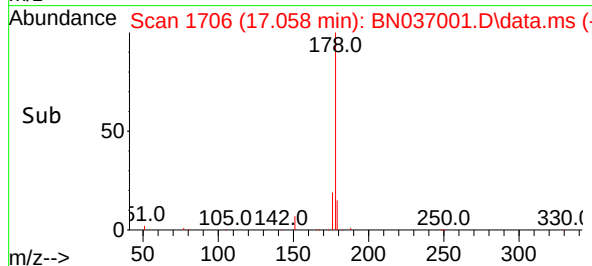
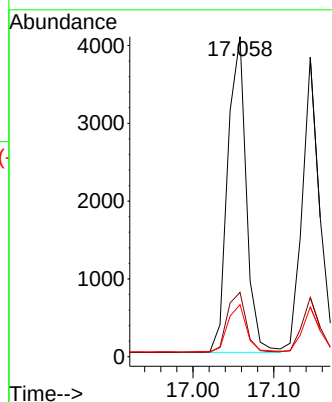
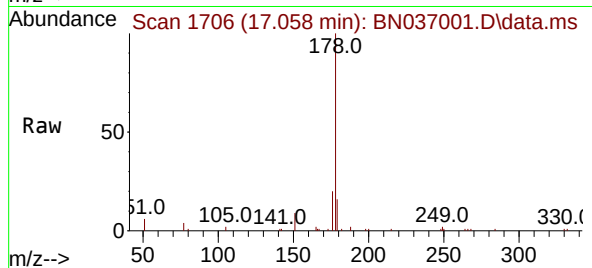




#25  
Phenanthrene  
Concen: 0.395 ng  
RT: 17.058 min Scan# 1706  
Delta R.T. 0.000 min  
Lab File: BN037001.D  
Acq: 13 May 2025 18:53

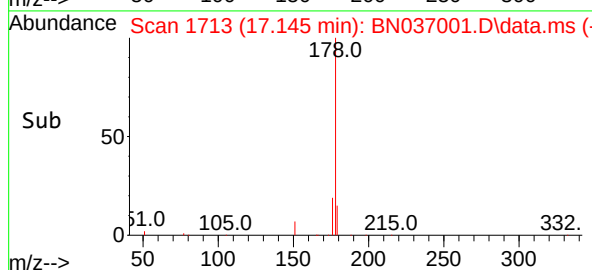
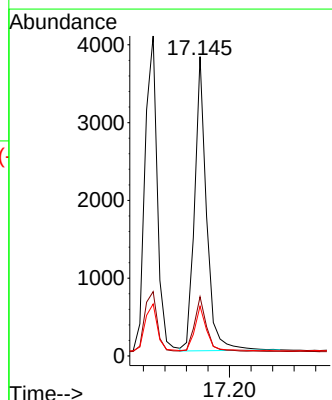
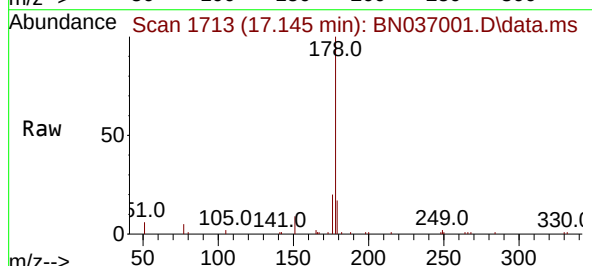
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

Tgt Ion:178 Resp: 6468  
Ion Ratio Lower Upper  
178 100  
176 19.6 15.7 23.5  
179 15.2 12.2 18.2

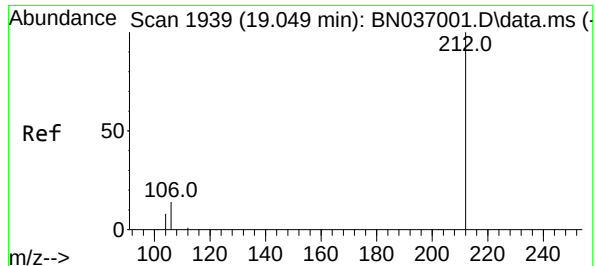


#26  
Anthracene  
Concen: 0.392 ng  
RT: 17.145 min Scan# 1713  
Delta R.T. 0.000 min  
Lab File: BN037001.D  
Acq: 13 May 2025 18:53

Tgt Ion:178 Resp: 5835  
Ion Ratio Lower Upper  
178 100  
176 18.8 15.0 22.6  
179 15.4 12.3 18.5







#27

Fluoranthene-d10

Concen: 0.393 ng

RT: 19.049 min Scan# 1939

Delta R.T. 0.000 min

Lab File: BN037001.D

Acq: 13 May 2025 18:53

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

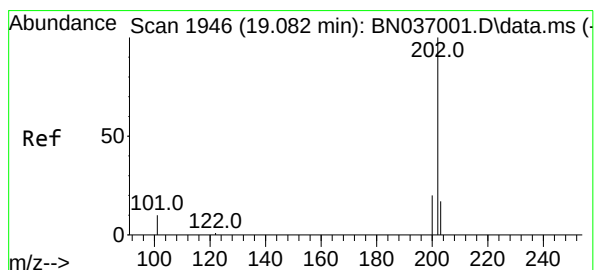
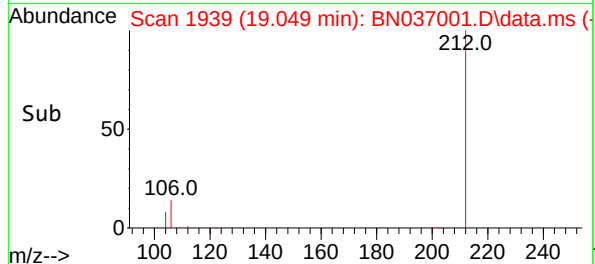
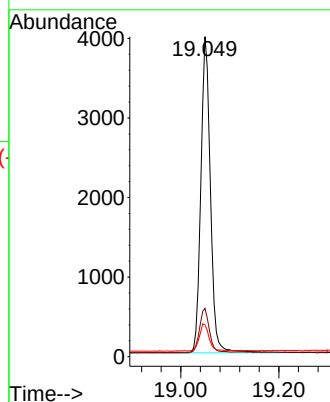
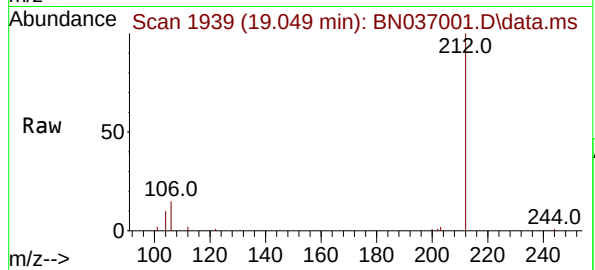
Tgt Ion:212 Resp: 5393

Ion Ratio Lower Upper

212 100

106 14.1 11.3 16.9

104 8.4 6.7 10.1



#28

Fluoranthene

Concen: 0.384 ng

RT: 19.082 min Scan# 1946

Delta R.T. 0.000 min

Lab File: BN037001.D

Acq: 13 May 2025 18:53

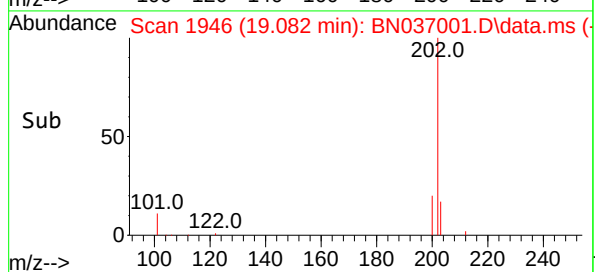
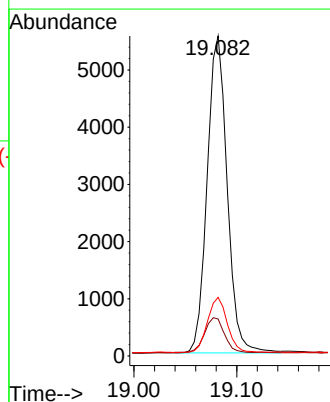
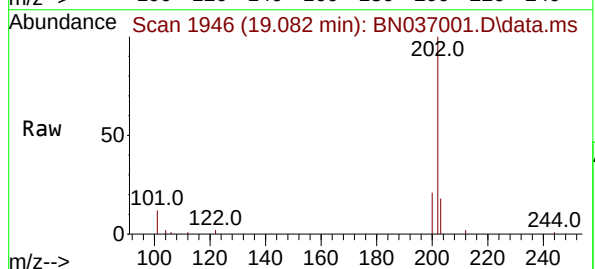
Tgt Ion:202 Resp: 7510

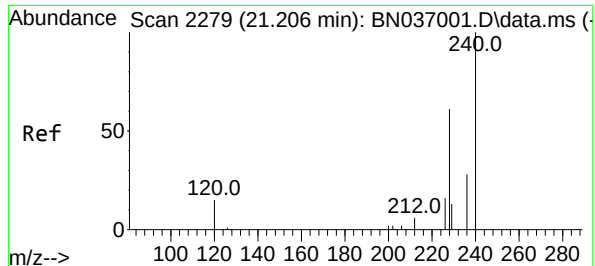
Ion Ratio Lower Upper

202 100

101 11.1 8.9 13.3

203 17.3 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.206 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037001.D

Acq: 13 May 2025 18:53

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

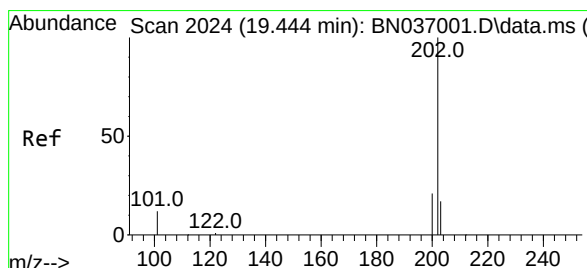
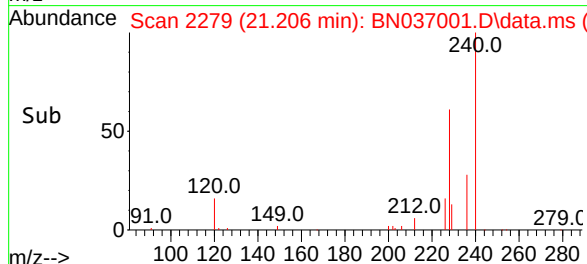
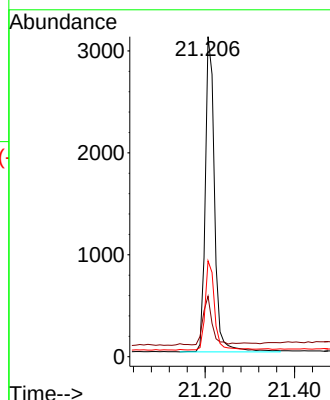
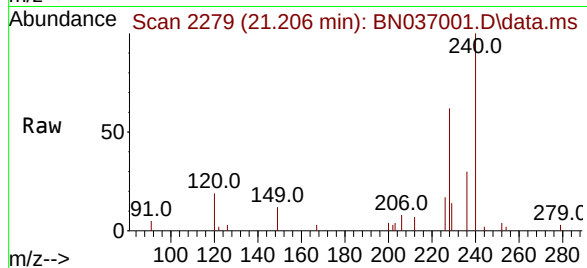
Tgt Ion:240 Resp: 4458

Ion Ratio Lower Upper

240 100

120 18.9 15.1 22.7

236 30.0 24.0 36.0



#30

Pyrene

Concen: 0.404 ng

RT: 19.444 min Scan# 2024

Delta R.T. 0.000 min

Lab File: BN037001.D

Acq: 13 May 2025 18:53

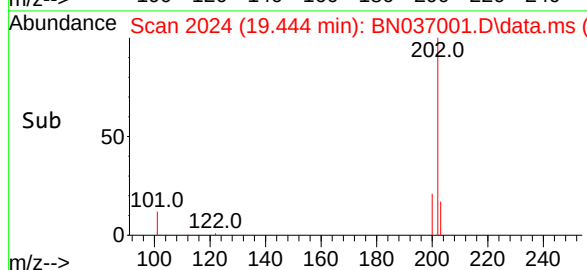
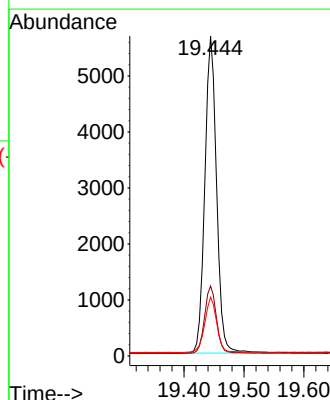
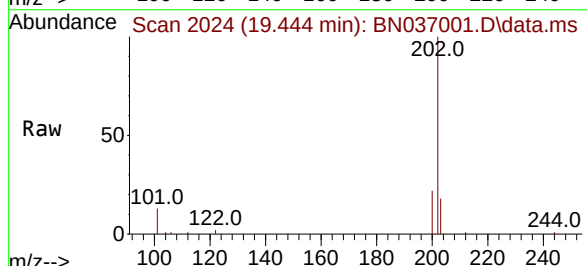
Tgt Ion:202 Resp: 7697

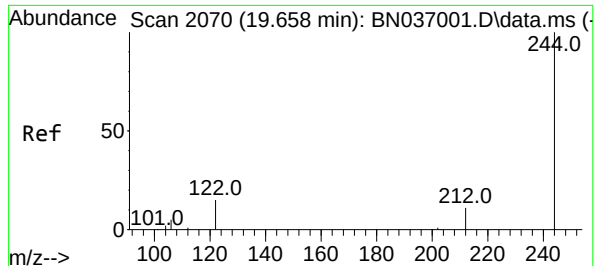
Ion Ratio Lower Upper

202 100

200 21.4 17.1 25.7

203 17.8 14.2 21.4

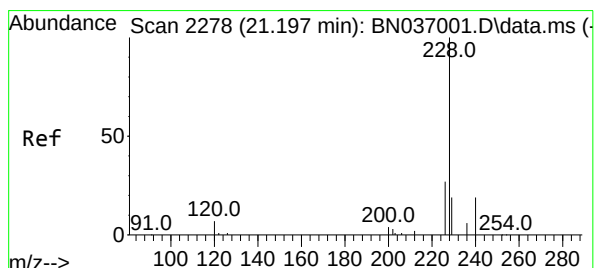
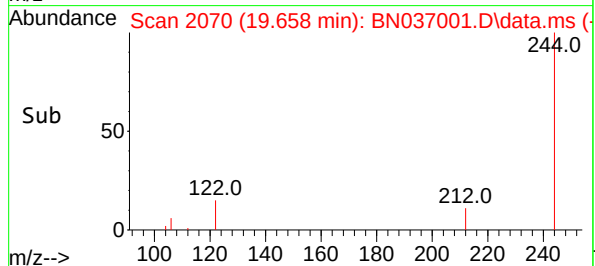
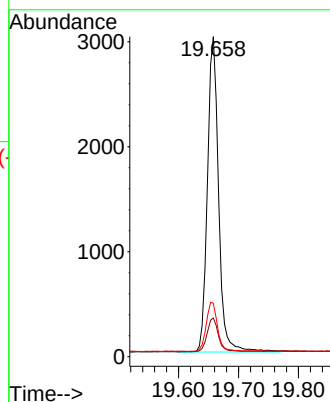
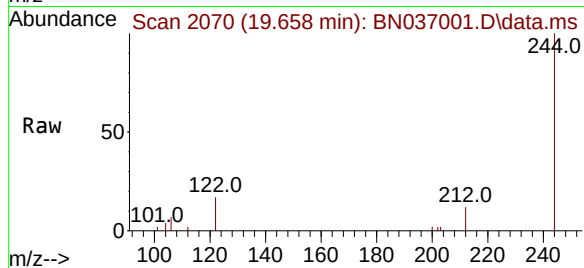




#31  
Terphenyl-d14  
Concen: 0.407 ng  
RT: 19.658 min Scan# 2070  
Delta R.T. 0.000 min  
Lab File: BN037001.D  
Acq: 13 May 2025 18:53

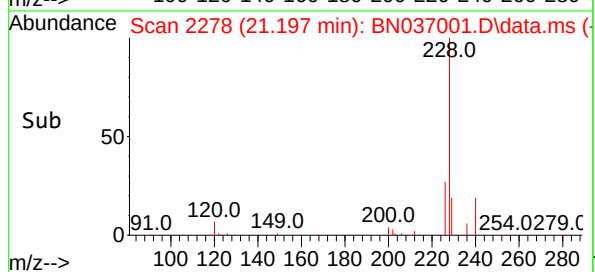
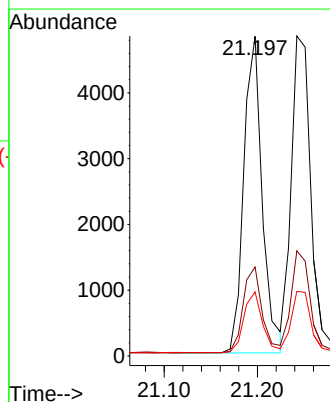
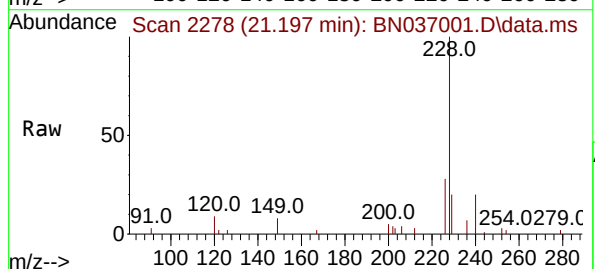
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

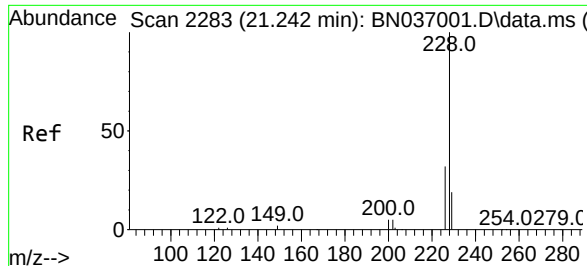
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 12.1  | 9.7   | 14.5  |
| 122     | 16.7  | 13.4  | 20.0  |



#32  
Benzo(a)anthracene  
Concen: 0.394 ng  
RT: 21.197 min Scan# 2278  
Delta R.T. 0.000 min  
Lab File: BN037001.D  
Acq: 13 May 2025 18:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 27.8  | 22.2  | 33.4  |
| 229     | 20.0  | 16.0  | 24.0  |





#33

Chrysene

Concen: 0.406 ng

RT: 21.242 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037001.D

Acq: 13 May 2025 18:53

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

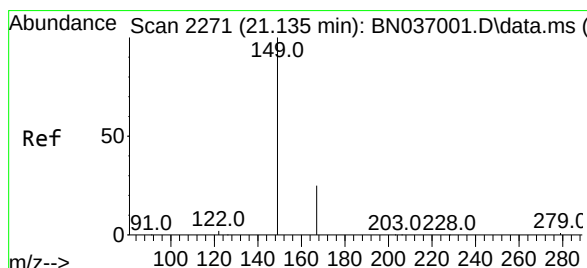
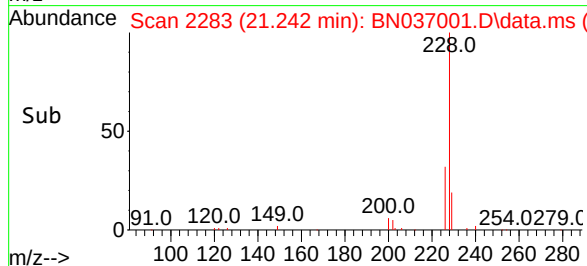
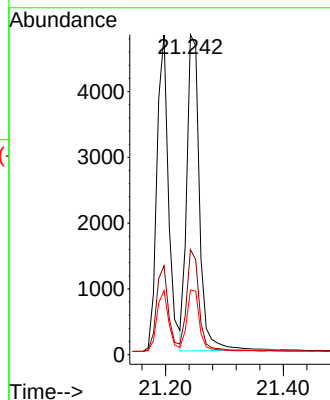
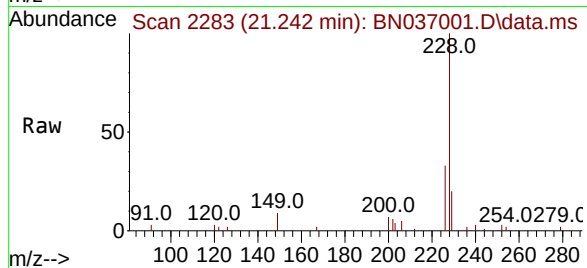
Tgt Ion:228 Resp: 7204

Ion Ratio Lower Upper

228 100

226 32.9 26.3 39.5

229 20.2 16.2 24.2



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.390 ng

RT: 21.135 min Scan# 2271

Delta R.T. 0.000 min

Lab File: BN037001.D

Acq: 13 May 2025 18:53

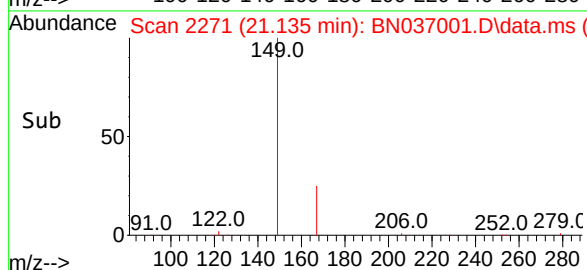
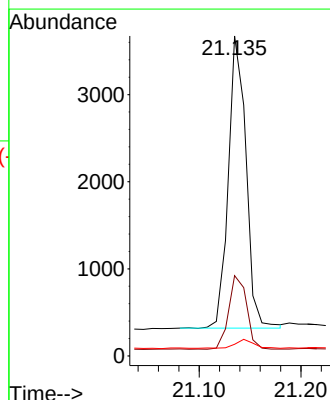
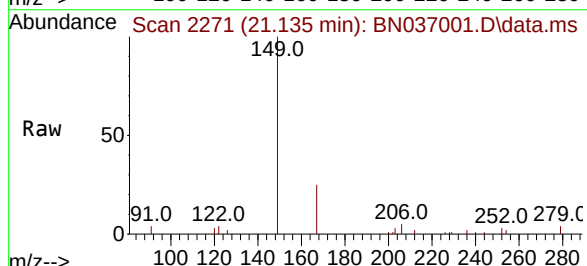
Tgt Ion:149 Resp: 4039

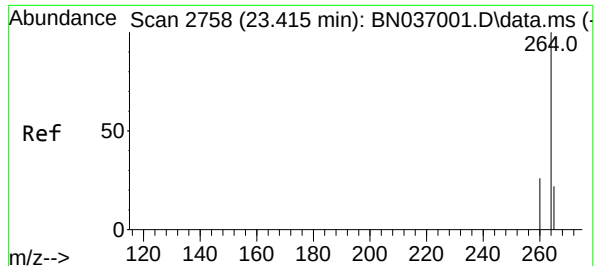
Ion Ratio Lower Upper

149 100

167 25.7 20.6 30.8

279 3.2 2.6 3.8





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.415 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037001.D

Acq: 13 May 2025 18:53

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

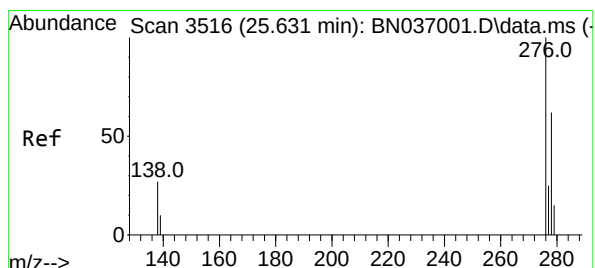
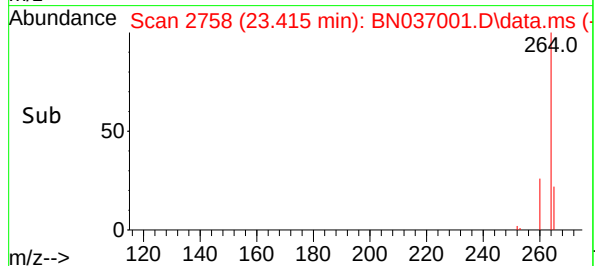
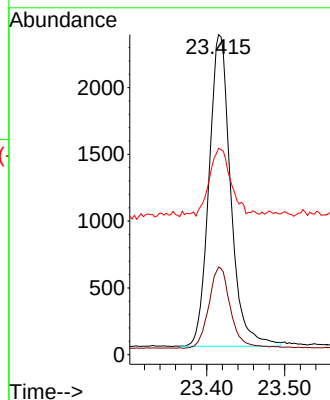
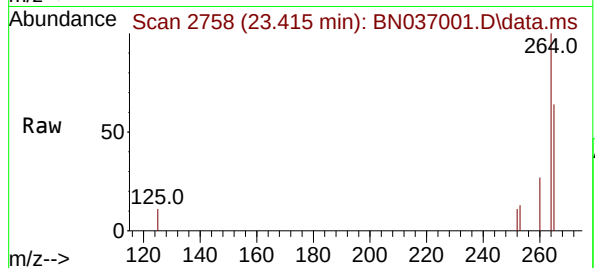
Tgt Ion:264 Resp: 4521

Ion Ratio Lower Upper

264 100

260 27.4 21.9 32.9

265 64.5 51.6 77.4



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.403 ng

RT: 25.631 min Scan# 3516

Delta R.T. 0.000 min

Lab File: BN037001.D

Acq: 13 May 2025 18:53

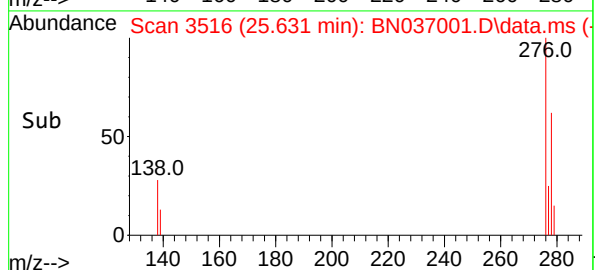
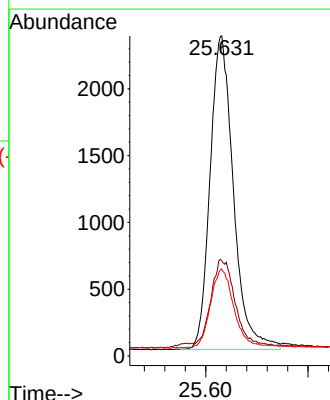
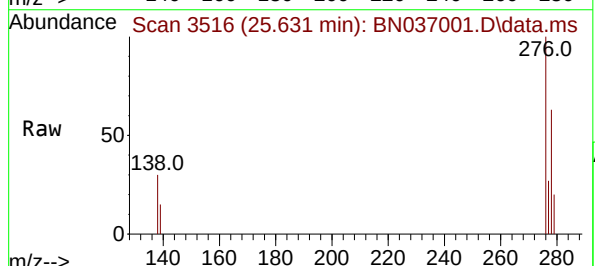
Tgt Ion:276 Resp: 7438

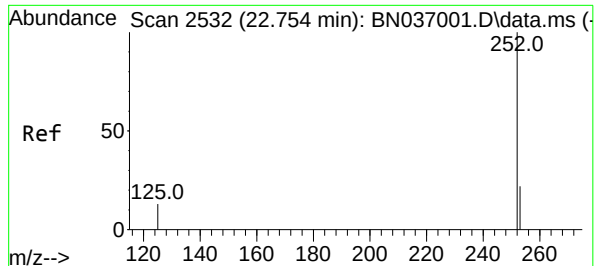
Ion Ratio Lower Upper

276 100

138 28.4 22.7 34.1

277 25.0 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 0.386 ng

RT: 22.754 min Scan# 2532

Delta R.T. 0.000 min

Lab File: BN037001.D

Acq: 13 May 2025 18:53

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

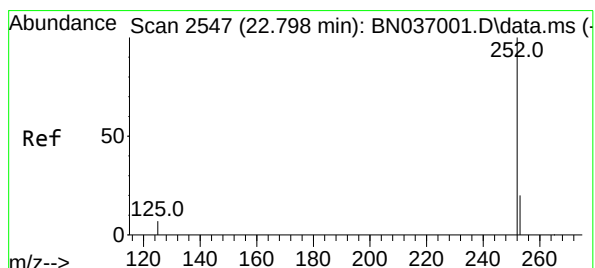
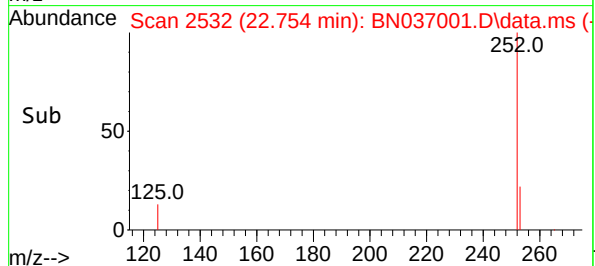
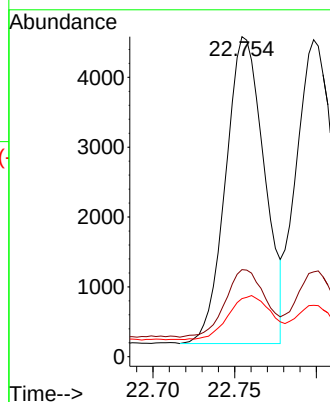
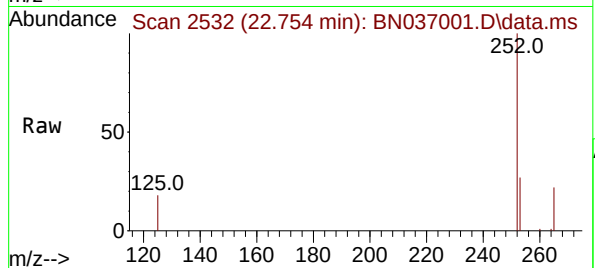
Tgt Ion:252 Resp: 7242

Ion Ratio Lower Upper

252 100

253 27.2 21.8 32.6

125 18.2 14.6 21.8



#38

Benzo(k)fluoranthene

Concen: 0.401 ng

RT: 22.798 min Scan# 2547

Delta R.T. 0.000 min

Lab File: BN037001.D

Acq: 13 May 2025 18:53

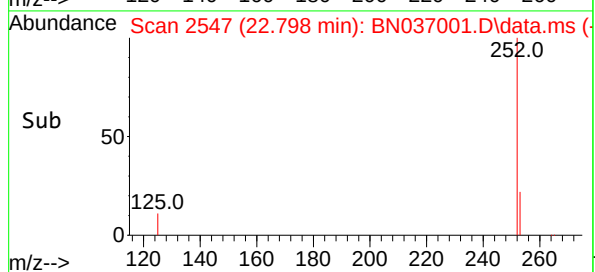
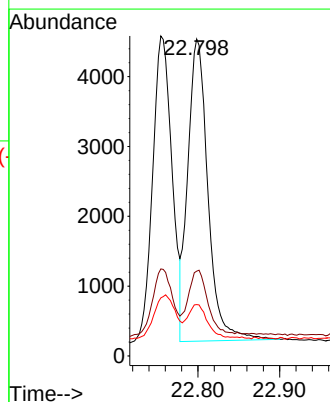
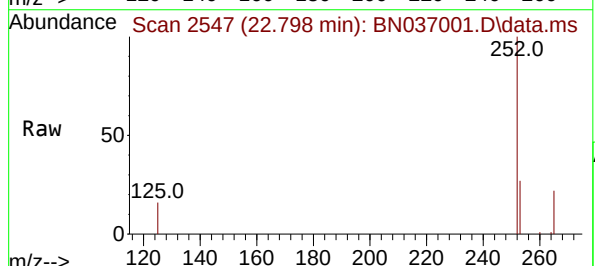
Tgt Ion:252 Resp: 7424

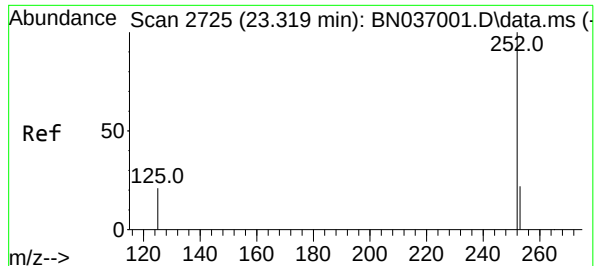
Ion Ratio Lower Upper

252 100

253 26.8 21.4 32.2

125 16.2 13.0 19.4





#39

Benzo(a)pyrene

Concen: 0.393 ng

RT: 23.319 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037001.D

Acq: 13 May 2025 18:53

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

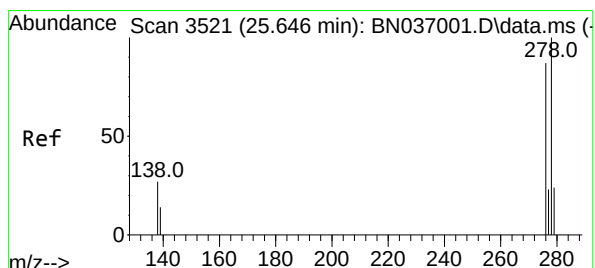
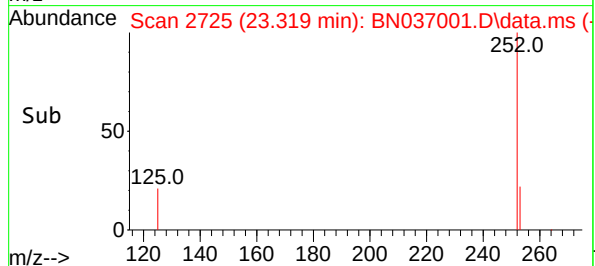
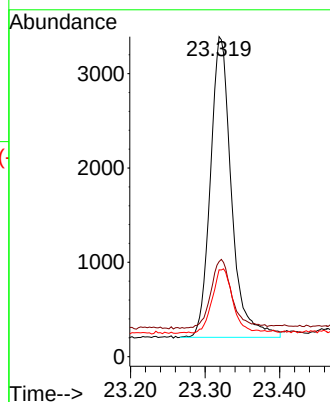
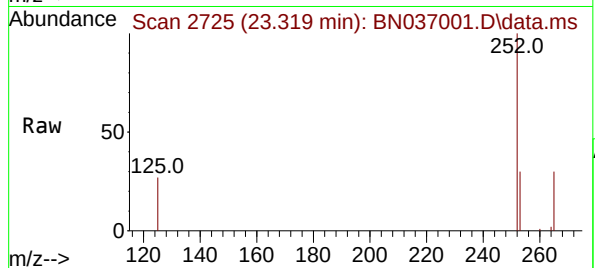
Tgt Ion:252 Resp: 6245

Ion Ratio Lower Upper

252 100

253 29.7 23.8 35.6

125 27.2 21.8 32.6



#40

Dibenzo(a,h)anthracene

Concen: 0.400 ng

RT: 25.646 min Scan# 3521

Delta R.T. 0.000 min

Lab File: BN037001.D

Acq: 13 May 2025 18:53

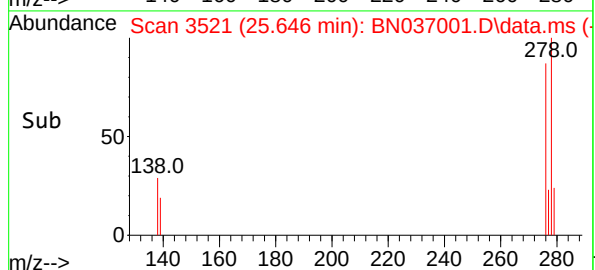
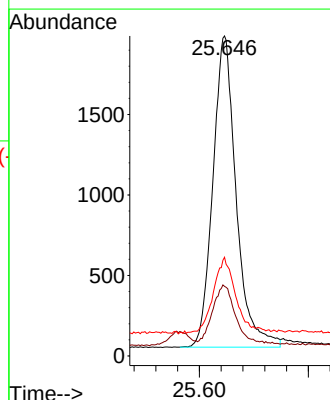
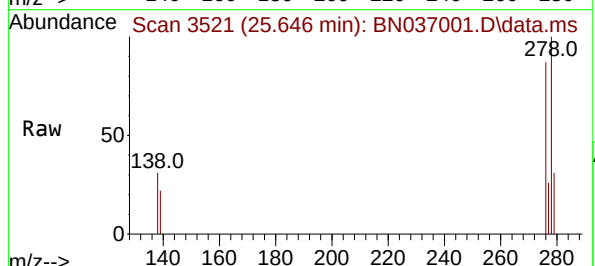
Tgt Ion:278 Resp: 5753

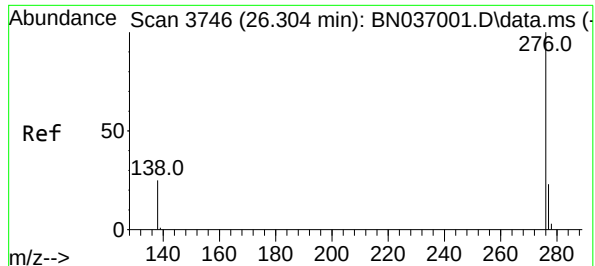
Ion Ratio Lower Upper

278 100

139 21.7 17.4 26.0

279 30.8 24.6 37.0





#41

Benzo(g,h,i)perylene

Concen: 0.412 ng

RT: 26.304 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN037001.D

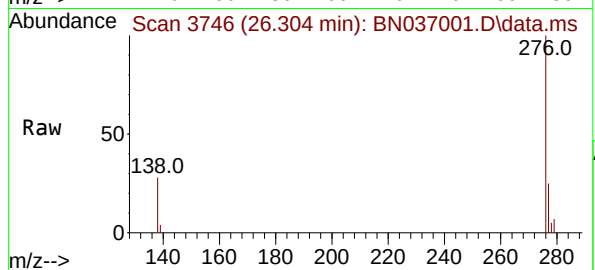
Acq: 13 May 2025 18:53

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4



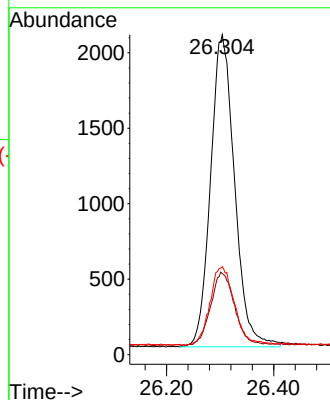
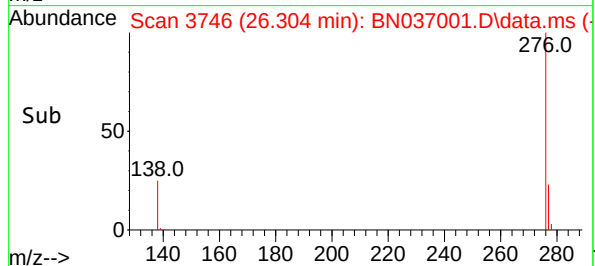
Tgt Ion:276 Resp: 6438

Ion Ratio Lower Upper

276 100

277 25.3 20.2 30.4

138 27.5 22.0 33.0





Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN051425\  
 Data File : BN037002.D  
 Acq On : 13 May 2025 19:29  
 Operator : RC/JU  
 Sample : SSTDICC0.8  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC0.8

Quant Time: May 14 11:01:02 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN051425.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 14 10:57:36 2025  
 Response via : Initial Calibration

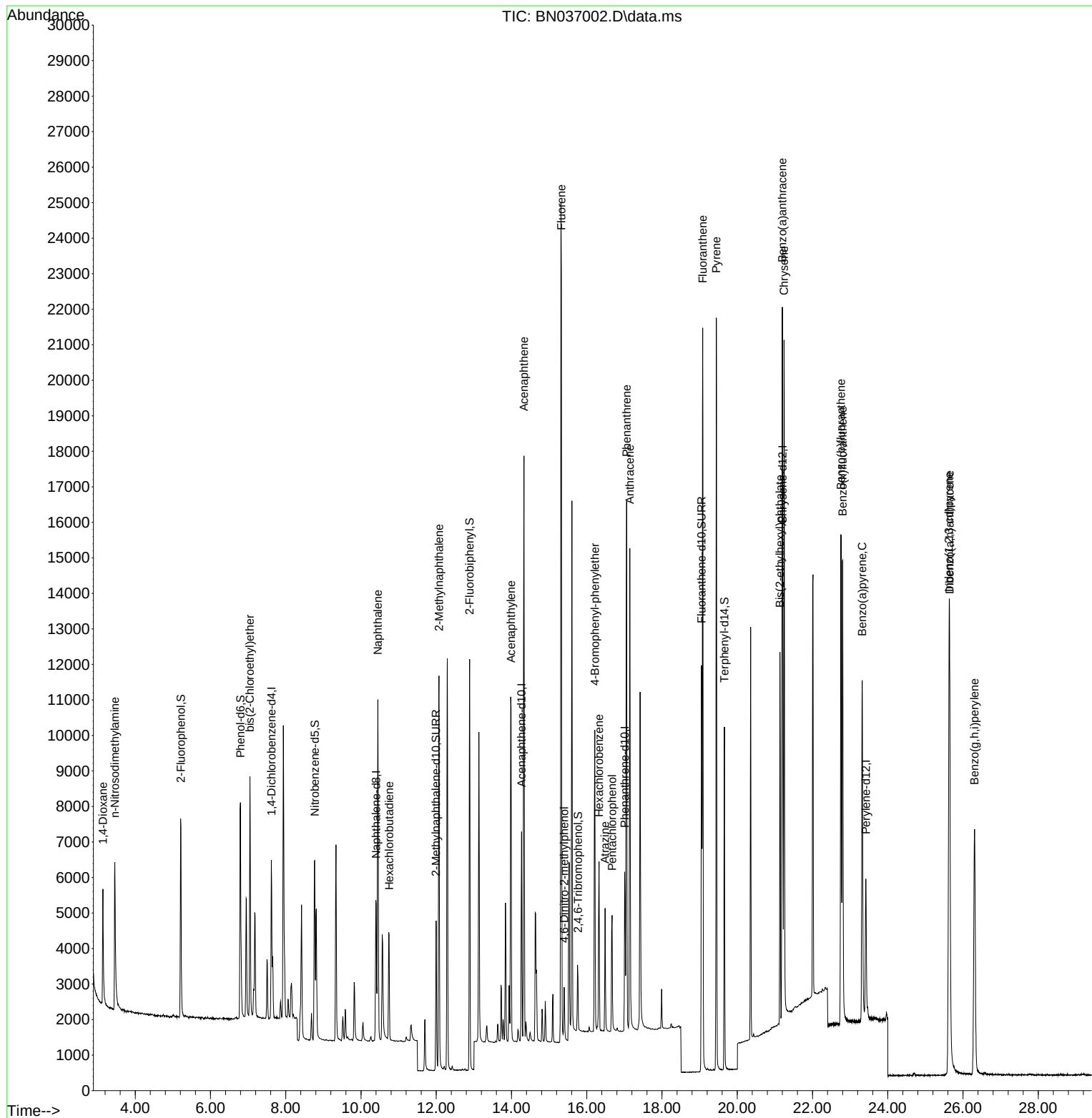
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.618  | 152  | 2018     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.404 | 136  | 5326     | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 14.267 | 164  | 3047     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 17.009 | 188  | 5996     | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 21.207 | 240  | 5456     | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.418 | 264  | 5077     | 0.400 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.213  | 112  | 4133     | 0.782 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.795  | 99   | 4989     | 0.754 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.771  | 82   | 4266     | 0.736 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.996 | 152  | 5833     | 0.778 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.767 | 330  | 972      | 0.726 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.889 | 172  | 10981    | 0.787 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 19.054 | 212  | 12492    | 0.760 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.658 | 244  | 8975     | 0.769 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| Target Compounds              |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.141  | 88   | 1965     | 0.794 | ng    | 97       |
| 3) n-Nitrosodimethylamine     | 3.458  | 42   | 3920     | 0.737 | ng    | # 94     |
| 6) bis(2-Chloroethyl)ether    | 7.048  | 93   | 4579     | 0.752 | ng    | 99       |
| 9) Naphthalene                | 10.447 | 128  | 11949    | 0.759 | ng    | 97       |
| 10) Hexachlorobutadiene       | 10.746 | 225  | 2502     | 0.757 | ng    | # 100    |
| 12) 2-Methylnaphthalene       | 12.072 | 142  | 7803     | 0.771 | ng    | 98       |
| 16) Acenaphthylene            | 13.989 | 152  | 11268    | 0.760 | ng    | 100      |
| 17) Acenaphthene              | 14.331 | 154  | 7416     | 0.765 | ng    | 99       |
| 18) Fluorene                  | 15.325 | 166  | 9818     | 0.772 | ng    | 99       |
| 20) 4,6-Dinitro-2-methylph... | 15.400 | 198  | 946      | 0.760 | ng    | 90       |
| 21) 4-Bromophenyl-phenylether | 16.214 | 248  | 2963     | 0.782 | ng    | 95       |
| 22) Hexachlorobenzene         | 16.326 | 284  | 3104     | 0.766 | ng    | 97       |
| 23) Atrazine                  | 16.487 | 200  | 2560     | 0.775 | ng    | 92       |
| 24) Pentachlorophenol         | 16.674 | 266  | 1644     | 0.730 | ng    | 97       |
| 25) Phenanthrene              | 17.058 | 178  | 15146    | 0.773 | ng    | 100      |
| 26) Anthracene                | 17.145 | 178  | 13548    | 0.760 | ng    | 99       |
| 28) Fluoranthene              | 19.082 | 202  | 17938    | 0.766 | ng    | 100      |
| 30) Pyrene                    | 19.444 | 202  | 18075    | 0.774 | ng    | 100      |
| 32) Benzo(a)anthracene        | 21.198 | 228  | 15689    | 0.764 | ng    | 99       |
| 33) Chrysene                  | 21.242 | 228  | 16717    | 0.769 | ng    | 98       |
| 34) Bis(2-ethylhexyl)phtha... | 21.135 | 149  | 9326     | 0.737 | ng    | 99       |
| 36) Indeno(1,2,3-cd)pyrene    | 25.629 | 276  | 15921    | 0.768 | ng    | 99       |
| 37) Benzo(b)fluoranthene      | 22.755 | 252  | 16240    | 0.772 | ng    | # 93     |
| 38) Benzo(k)fluoranthene      | 22.798 | 252  | 16259    | 0.782 | ng    | 94       |
| 39) Benzo(a)pyrene            | 23.322 | 252  | 13516    | 0.757 | ng    | # 87     |
| 40) Dibenzo(a,h)anthracene    | 25.643 | 278  | 12556    | 0.777 | ng    | 94       |
| 41) Benzo(g,h,i)perylene      | 26.307 | 276  | 13503    | 0.769 | ng    | 98       |
| -----                         |        |      |          |       |       |          |

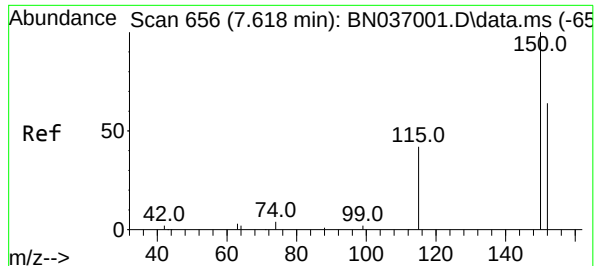
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN051425\  
 Data File : BN037002.D  
 Acq On : 13 May 2025 19:29  
 Operator : RC/JU  
 Sample : SSTDICC0.8  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC0.8

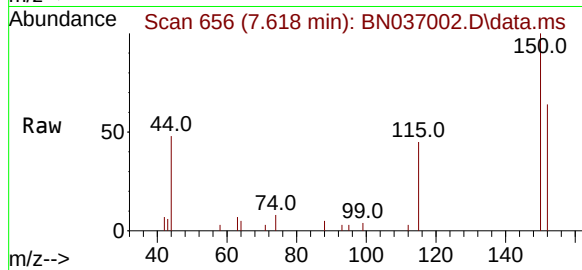
Quant Time: May 14 11:01:02 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN051425.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 14 10:57:36 2025  
 Response via : Initial Calibration



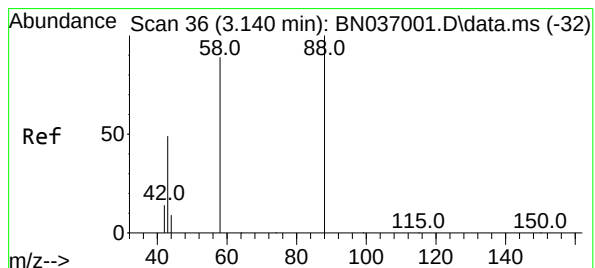
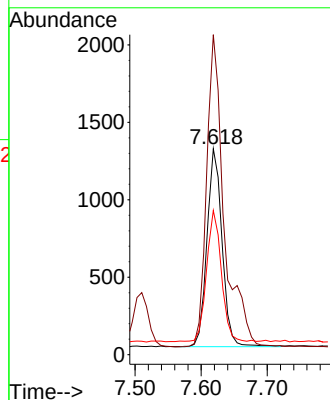
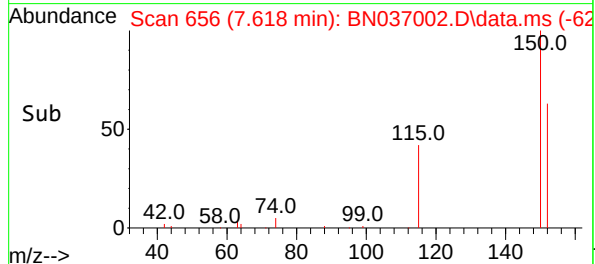


#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.618 min Scan# 61  
Delta R.T. 0.000 min  
Lab File: BN037002.D  
Acq: 13 May 2025 19:29

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

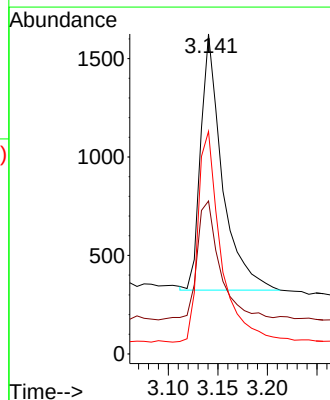
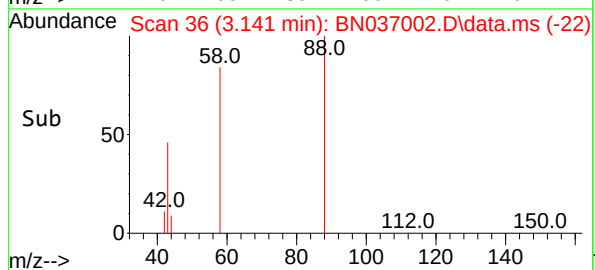
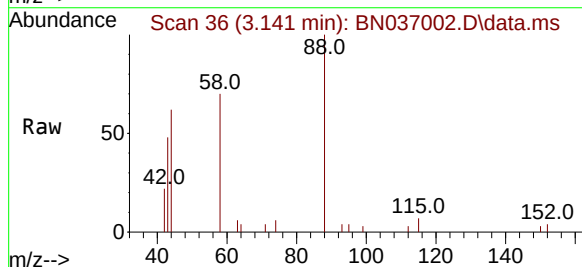


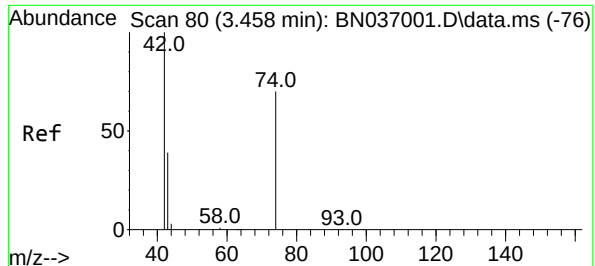
Tgt Ion:152 Resp: 2018  
Ion Ratio Lower Upper  
152 100  
150 155.3 123.9 185.9  
115 70.0 55.8 83.8



#2  
1,4-Dioxane  
Concen: 0.794 ng  
RT: 3.141 min Scan# 36  
Delta R.T. 0.001 min  
Lab File: BN037002.D  
Acq: 13 May 2025 19:29

Tgt Ion: 88 Resp: 1965  
Ion Ratio Lower Upper  
88 100  
43 50.3 37.4 56.0  
58 87.7 68.8 103.2

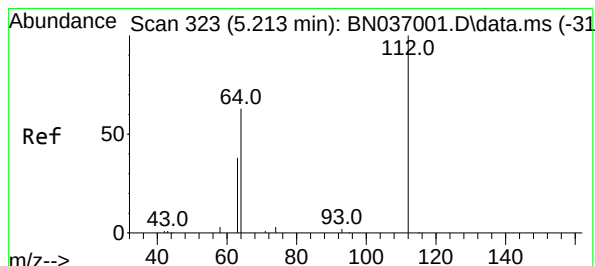
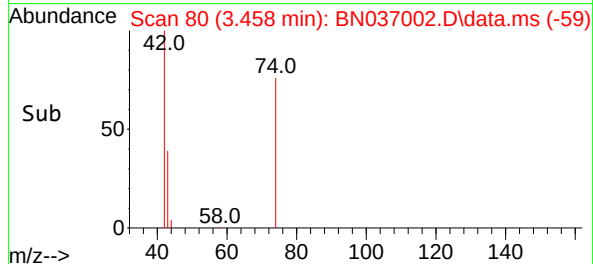
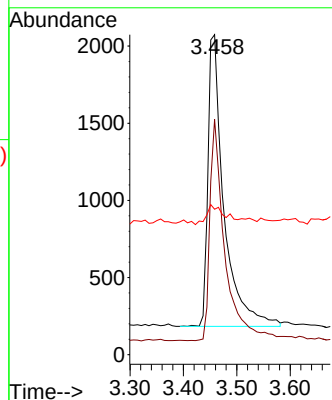
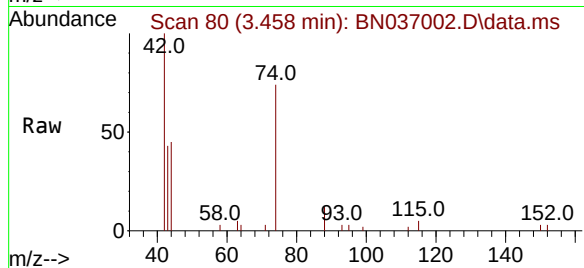




#3  
n-Nitrosodimethylamine  
Concen: 0.737 ng  
RT: 3.458 min Scan# 80  
Delta R.T. 0.000 min  
Lab File: BN037002.D  
Acq: 13 May 2025 19:29

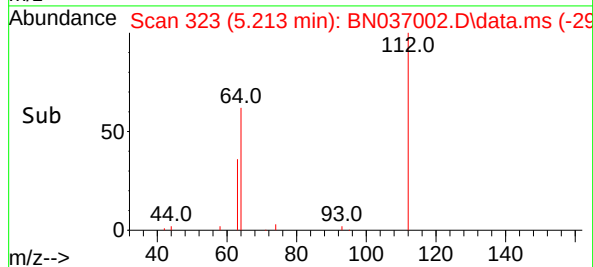
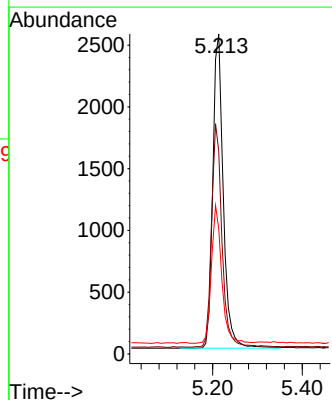
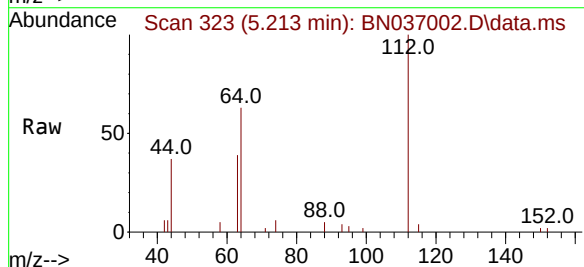
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

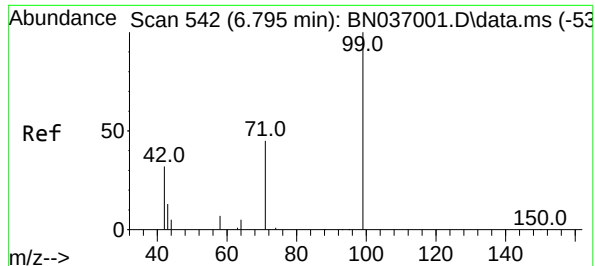
Tgt Ion: 42 Resp: 3920  
Ion Ratio Lower Upper  
42 100  
74 71.0 59.8 89.6  
44 7.7 11.9 17.9#



#4  
2-Fluorophenol  
Concen: 0.782 ng  
RT: 5.213 min Scan# 323  
Delta R.T. 0.000 min  
Lab File: BN037002.D  
Acq: 13 May 2025 19:29

Tgt Ion: 112 Resp: 4133  
Ion Ratio Lower Upper  
112 100  
64 70.4 55.7 83.5  
63 42.7 34.6 51.8

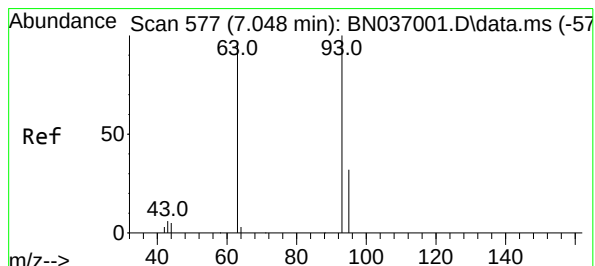
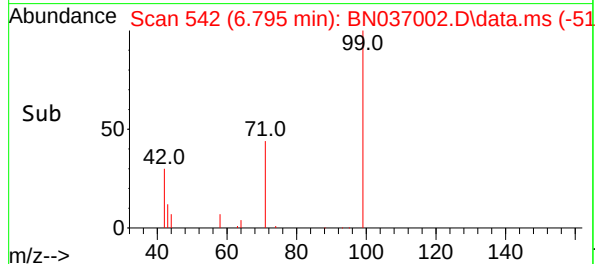
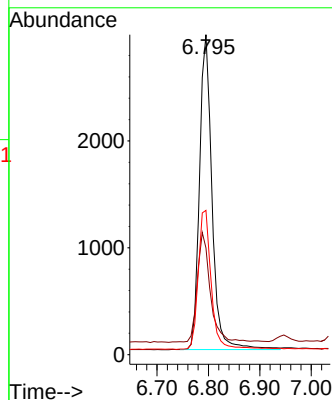
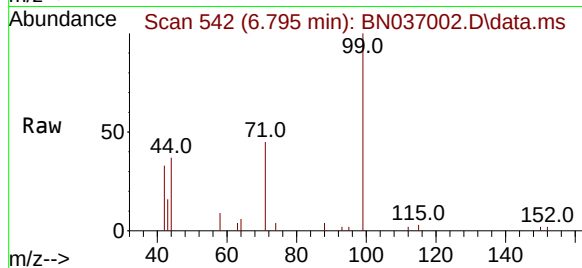




#5  
Phenol-d6  
Concen: 0.754 ng  
RT: 6.795 min Scan# 542  
Delta R.T. 0.000 min  
Lab File: BN037002.D  
Acq: 13 May 2025 19:29

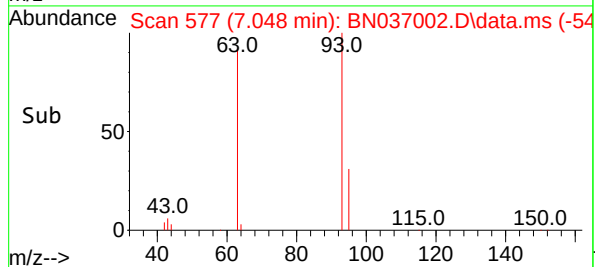
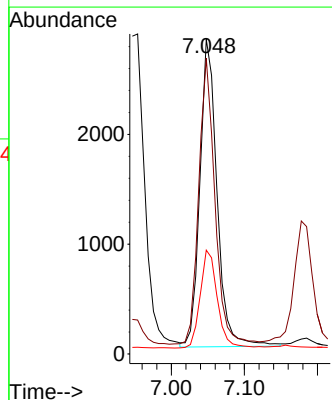
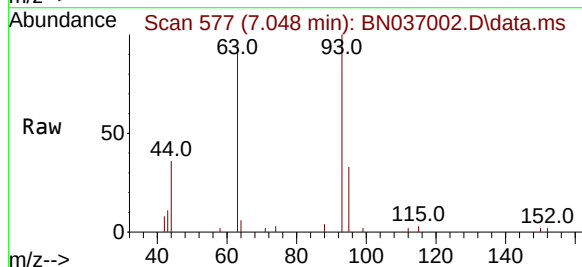
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

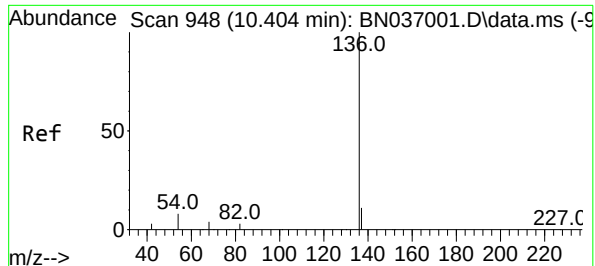
Tgt Ion: 99 Resp: 4989  
Ion Ratio Lower Upper  
99 100  
42 36.4 29.3 43.9  
71 46.4 35.7 53.5



#6  
bis(2-Chloroethyl)ether  
Concen: 0.752 ng  
RT: 7.048 min Scan# 577  
Delta R.T. 0.000 min  
Lab File: BN037002.D  
Acq: 13 May 2025 19:29

Tgt Ion: 93 Resp: 4579  
Ion Ratio Lower Upper  
93 100  
63 87.2 70.1 105.1  
95 32.0 26.2 39.2

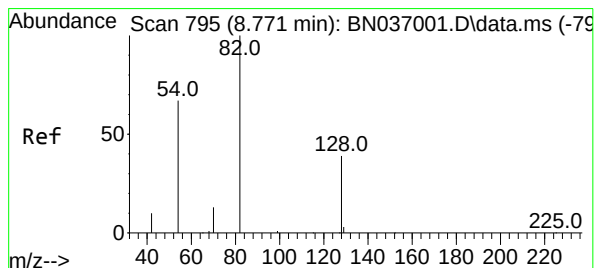
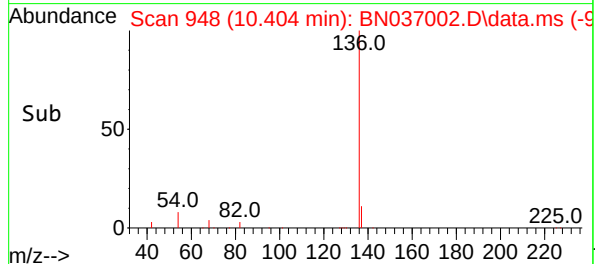
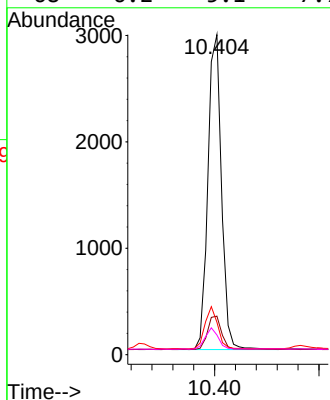
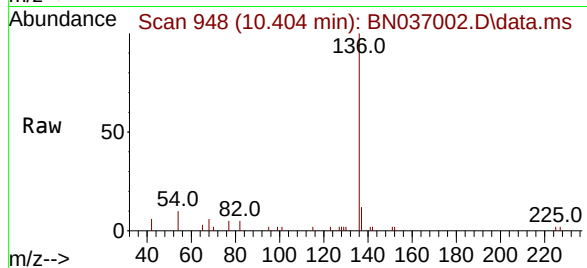




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.404 min Scan# 948  
Delta R.T. 0.000 min  
Lab File: BN037002.D  
Acq: 13 May 2025 19:29

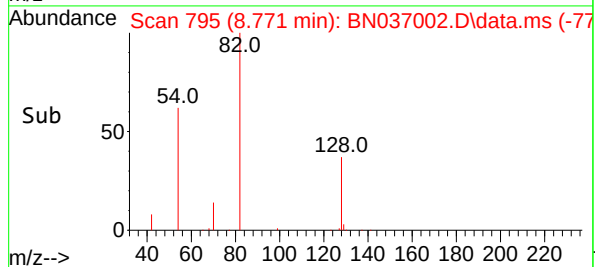
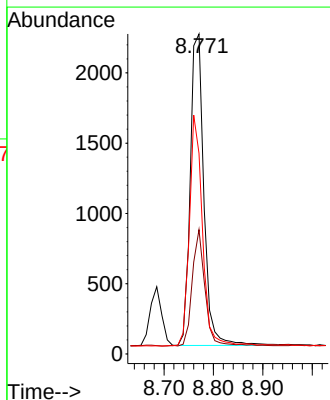
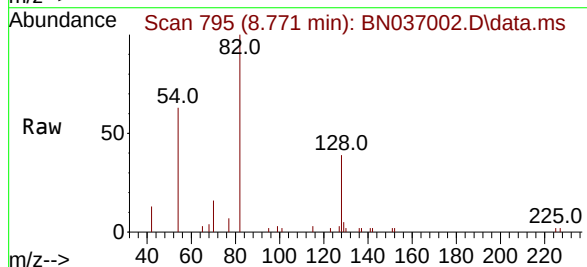
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

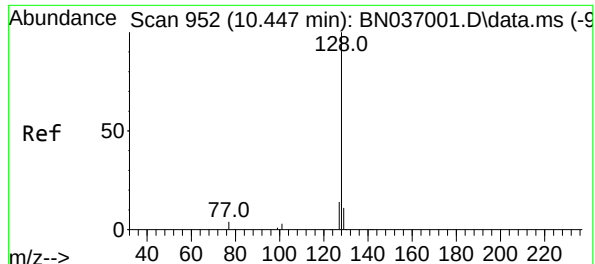
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 5326  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 12.0  | 10.4  | 15.6  |
| 54       | 10.1  | 8.5   | 12.7  |
| 68       | 6.2   | 5.1   | 7.7   |



#8  
Nitrobenzene-d5  
Concen: 0.736 ng  
RT: 8.771 min Scan# 795  
Delta R.T. 0.000 min  
Lab File: BN037002.D  
Acq: 13 May 2025 19:29

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 4266  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 38.9  | 34.0  | 51.0  |
| 54       | 62.7  | 55.0  | 82.4  |





#9

Naphthalene

Concen: 0.759 ng

RT: 10.447 min Scan# 91

Delta R.T. 0.000 min

Lab File: BN037002.D

Acq: 13 May 2025 19:29

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8

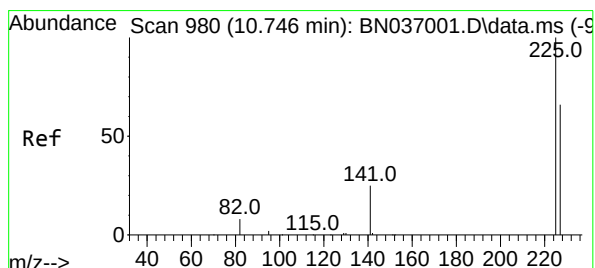
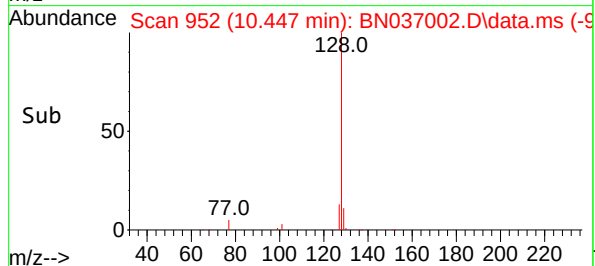
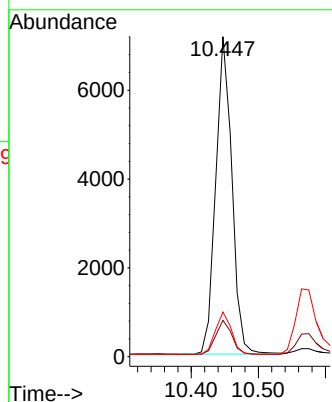
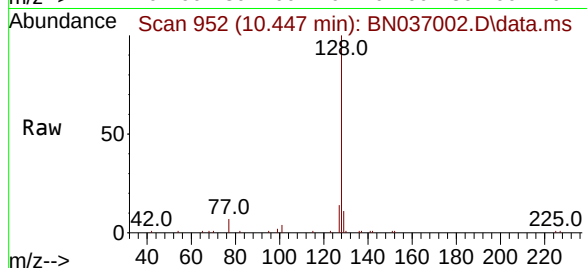
Tgt Ion:128 Resp: 11949

Ion Ratio Lower Upper

128 100

129 11.3 9.7 14.5

127 14.0 12.4 18.6



#10

Hexachlorobutadiene

Concen: 0.757 ng

RT: 10.746 min Scan# 980

Delta R.T. 0.000 min

Lab File: BN037002.D

Acq: 13 May 2025 19:29

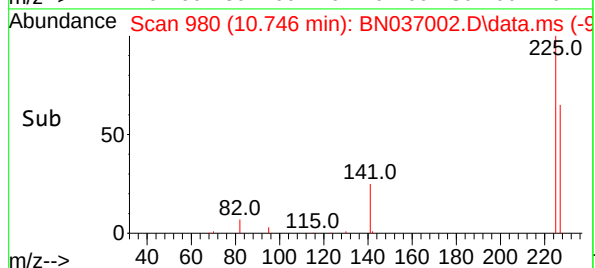
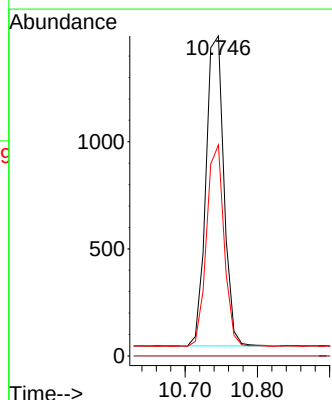
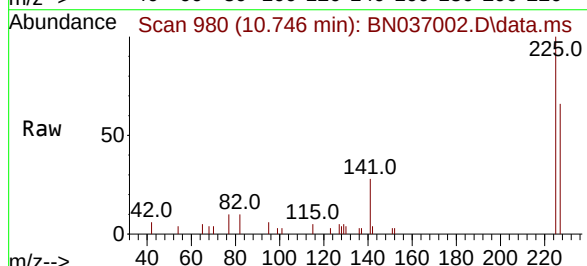
Tgt Ion:225 Resp: 2502

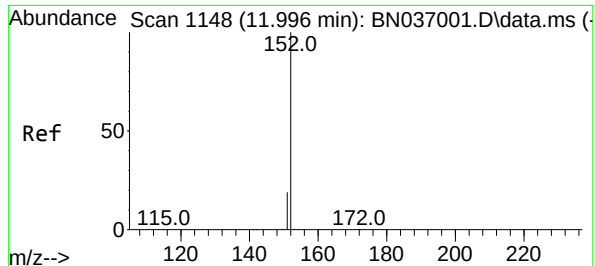
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 63.5 50.9 76.3

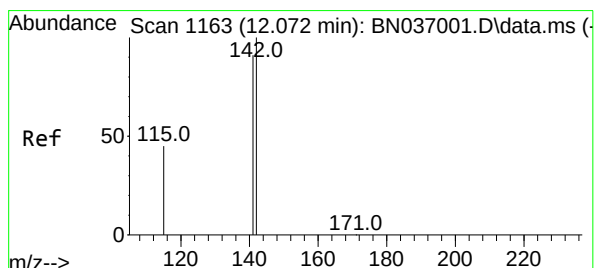
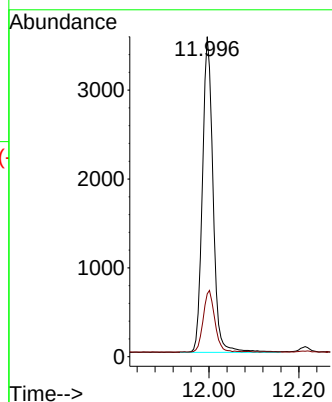
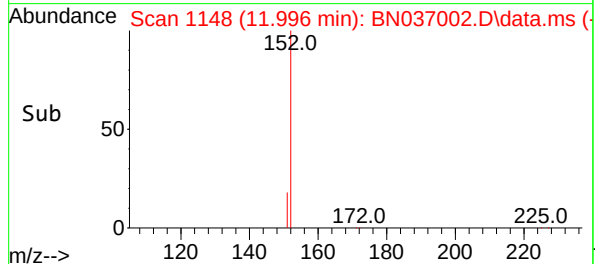
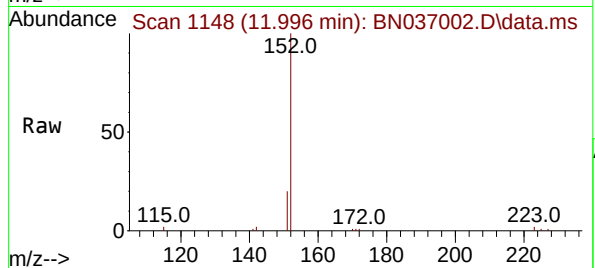




#11  
2-Methylnaphthalene-d10  
Concen: 0.778 ng  
RT: 11.996 min Scan# 1148  
Delta R.T. 0.000 min  
Lab File: BN037002.D  
Acq: 13 May 2025 19:29

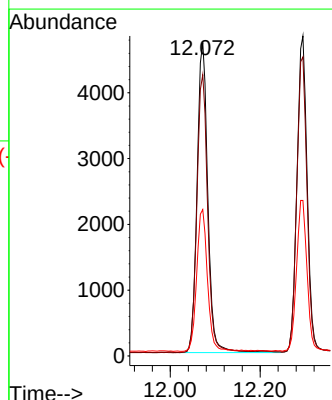
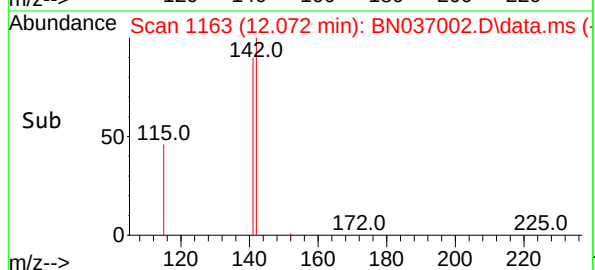
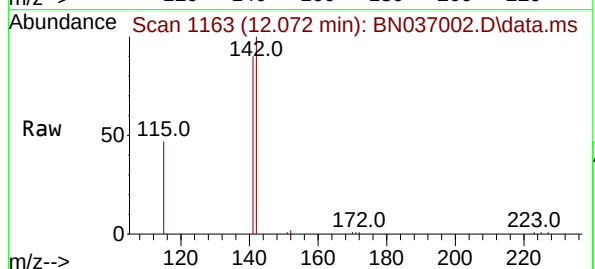
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

Tgt Ion:152 Resp: 5833  
Ion Ratio Lower Upper  
152 100  
151 21.2 17.5 26.3

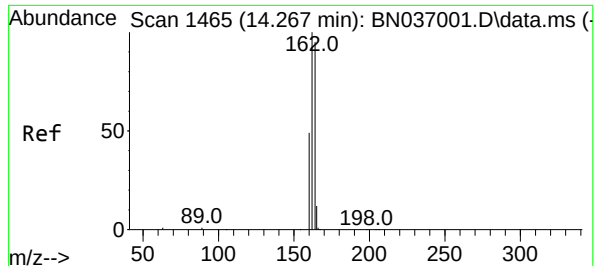


#12  
2-Methylnaphthalene  
Concen: 0.771 ng  
RT: 12.072 min Scan# 1163  
Delta R.T. 0.000 min  
Lab File: BN037002.D  
Acq: 13 May 2025 19:29

Tgt Ion:142 Resp: 7803  
Ion Ratio Lower Upper  
142 100  
141 89.7 73.3 109.9  
115 46.7 38.4 57.6



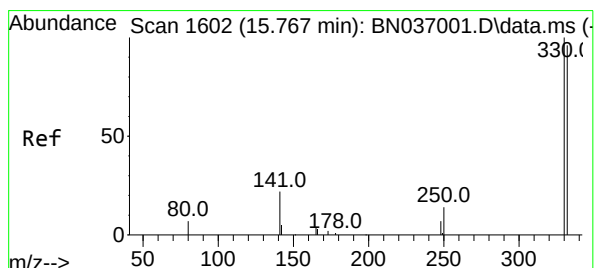
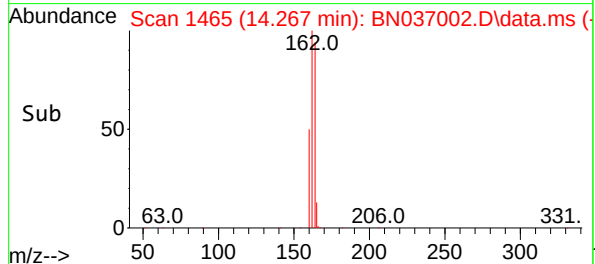
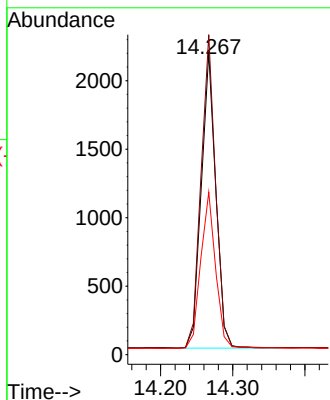
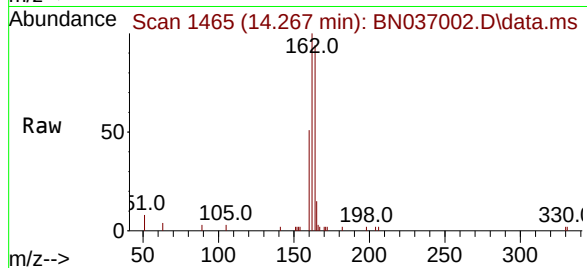




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.267 min Scan# 1465  
Delta R.T. 0.000 min  
Lab File: BN037002.D  
Acq: 13 May 2025 19:29

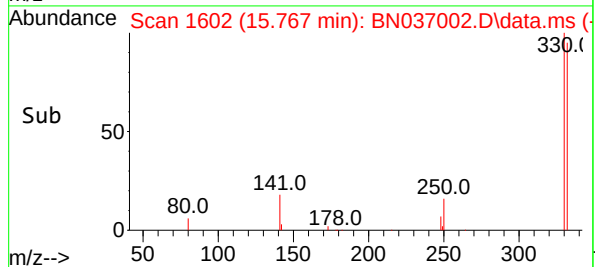
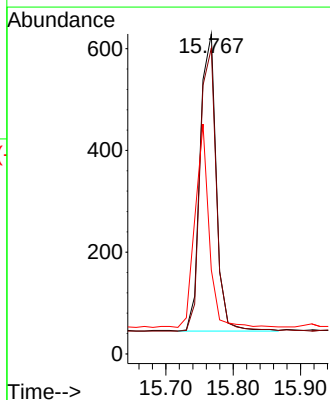
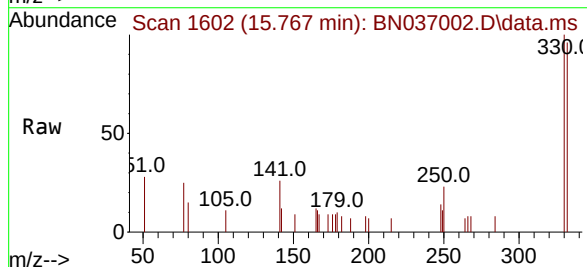
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

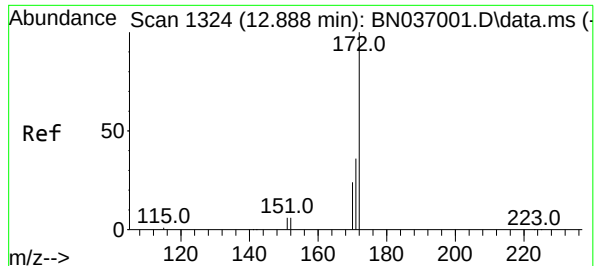
| Tgt Ion | 164   | Resp  | 3047  |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 164     | 100   |       |       |
| 162     | 105.9 | 84.2  | 126.4 |
| 160     | 53.8  | 42.6  | 63.8  |



#14  
2,4,6-Tribromophenol  
Concen: 0.726 ng  
RT: 15.767 min Scan# 1602  
Delta R.T. 0.000 min  
Lab File: BN037002.D  
Acq: 13 May 2025 19:29

| Tgt Ion | 330   | Resp  | 972   |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 330     | 100   |       |       |
| 332     | 96.1  | 73.8  | 110.8 |
| 141     | 60.8  | 43.9  | 65.9  |

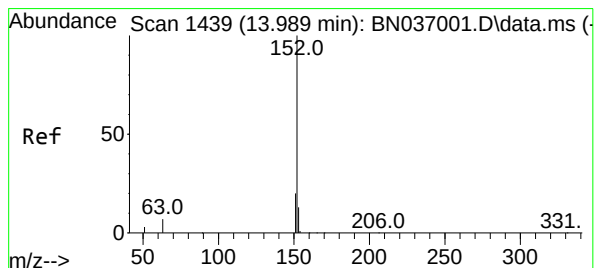
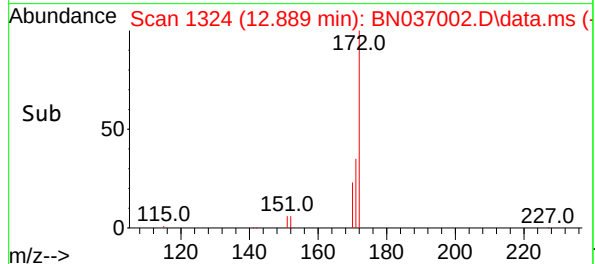
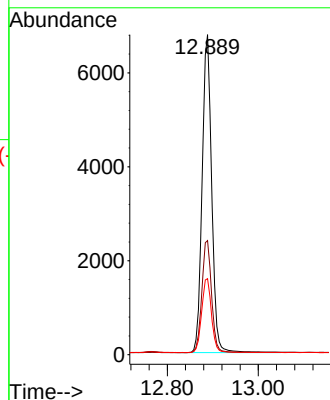
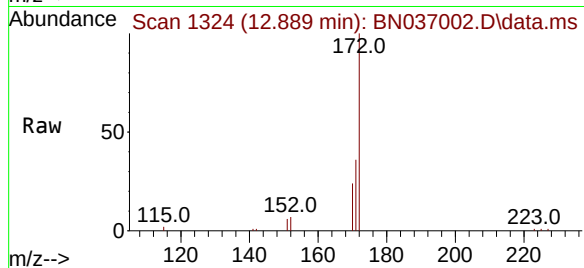




#15  
2-Fluorobiphenyl  
Concen: 0.787 ng  
RT: 12.889 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: BN037002.D  
Acq: 13 May 2025 19:29

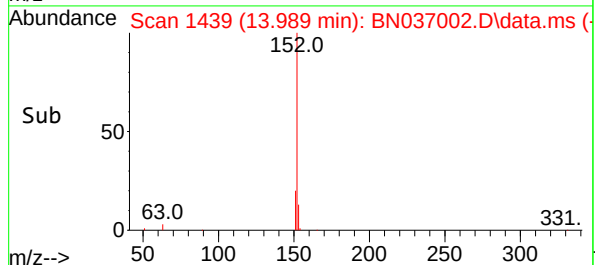
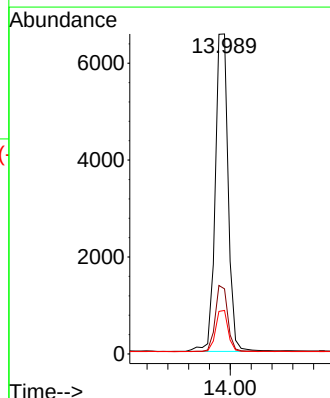
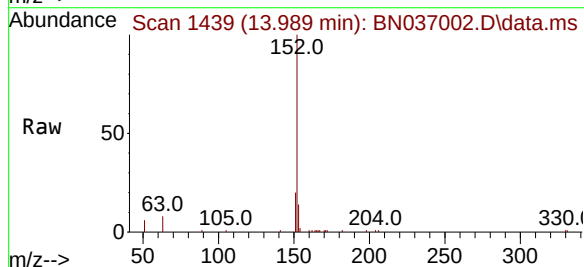
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

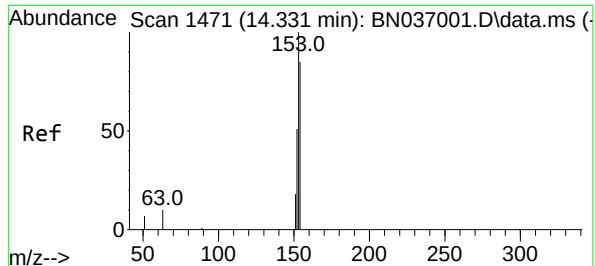
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.6  | 29.2  | 43.8  |
| 170     | 23.8  | 20.5  | 30.7  |



#16  
Acenaphthylene  
Concen: 0.760 ng  
RT: 13.989 min Scan# 1439  
Delta R.T. 0.000 min  
Lab File: BN037002.D  
Acq: 13 May 2025 19:29

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 20.1  | 16.1  | 24.1  |
| 153     | 12.8  | 10.5  | 15.7  |





#17

Acenaphthene

Concen: 0.765 ng

RT: 14.331 min Scan# 1471

Delta R.T. 0.000 min

Lab File: BN037002.D

Acq: 13 May 2025 19:29

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8

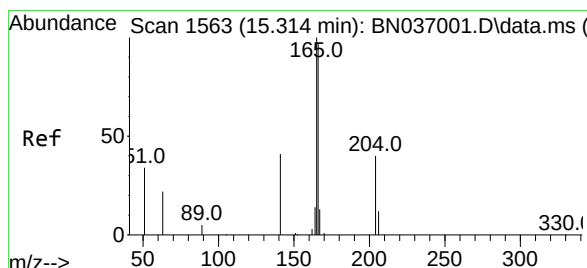
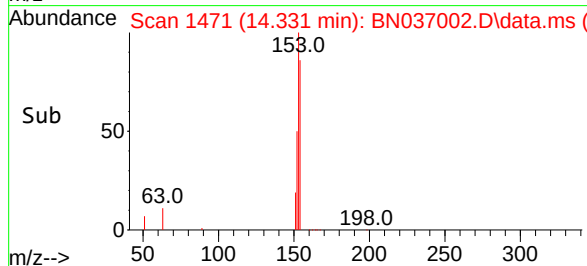
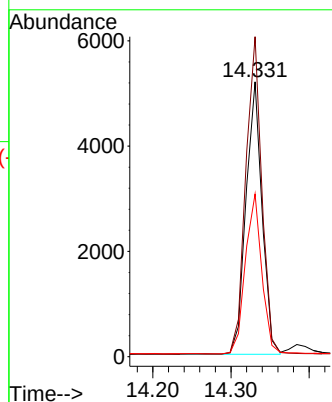
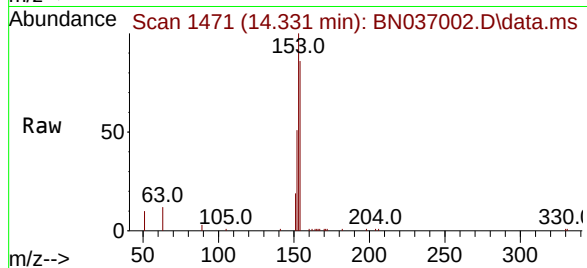
Tgt Ion:154 Resp: 7416

Ion Ratio Lower Upper

154 100

153 116.5 94.2 141.4

152 60.4 49.4 74.0



#18

Fluorene

Concen: 0.772 ng

RT: 15.325 min Scan# 1564

Delta R.T. 0.011 min

Lab File: BN037002.D

Acq: 13 May 2025 19:29

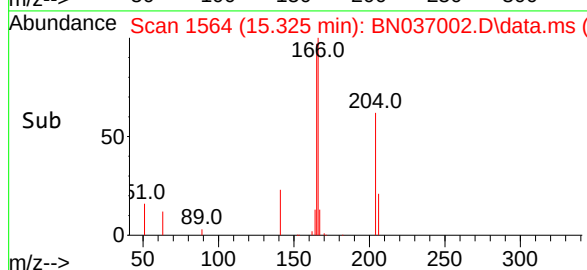
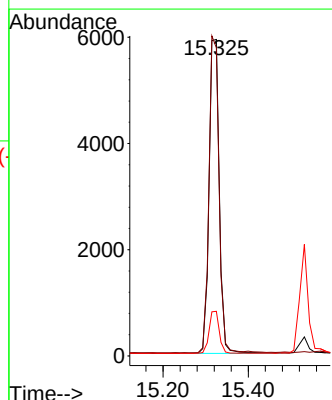
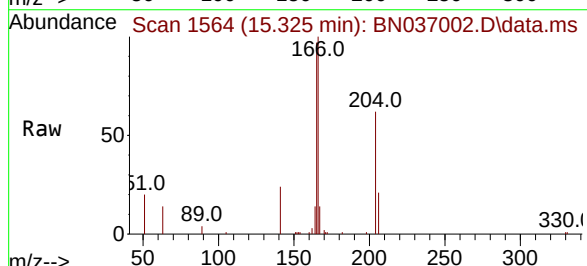
Tgt Ion:166 Resp: 9818

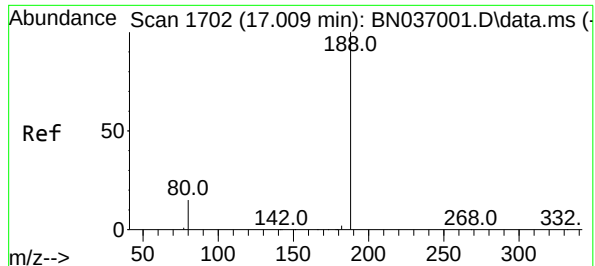
Ion Ratio Lower Upper

166 100

165 99.4 80.6 120.8

167 13.4 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.009 min Scan# 11

Delta R.T. 0.000 min

Lab File: BN037002.D

Acq: 13 May 2025 19:29

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8

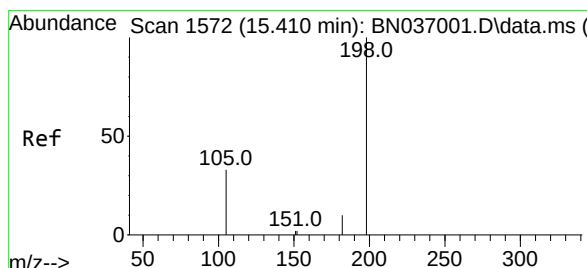
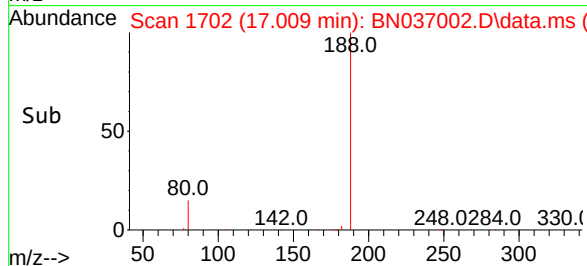
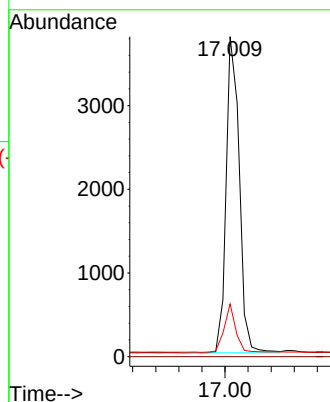
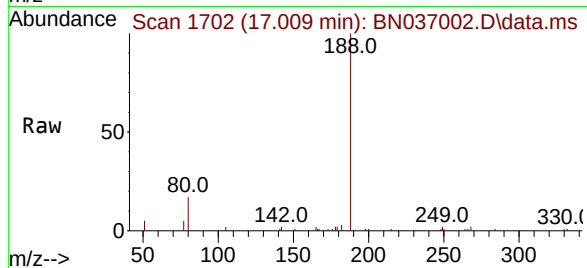
Tgt Ion:188 Resp: 5996

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 16.5 13.4 20.0



#20

4,6-Dinitro-2-methylphenol

Concen: 0.760 ng

RT: 15.400 min Scan# 1571

Delta R.T. -0.010 min

Lab File: BN037002.D

Acq: 13 May 2025 19:29

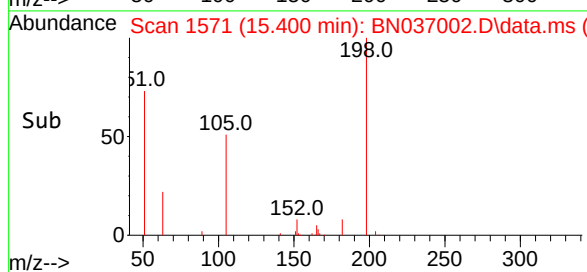
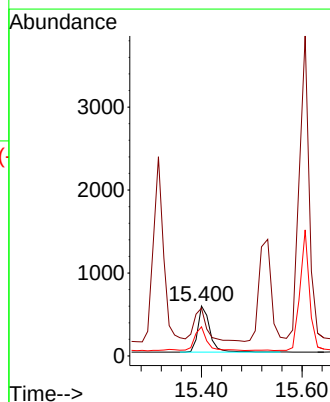
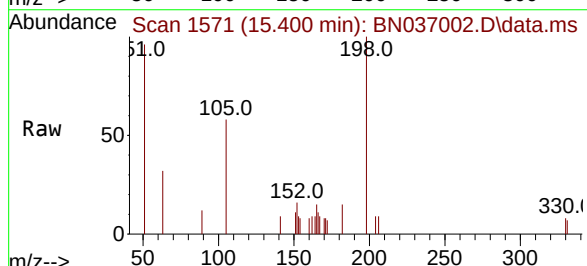
Tgt Ion:198 Resp: 946

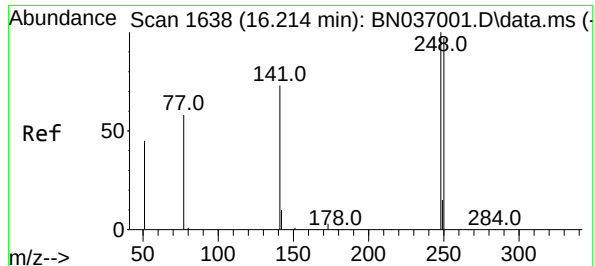
Ion Ratio Lower Upper

198 100

51 95.8 87.8 131.6

105 58.4 44.2 66.4

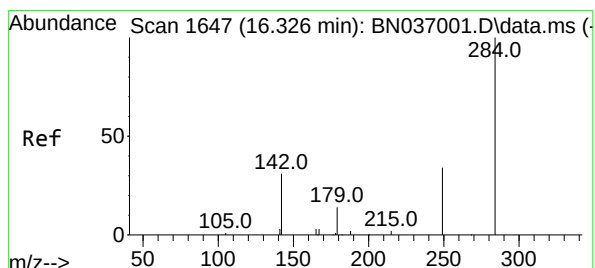
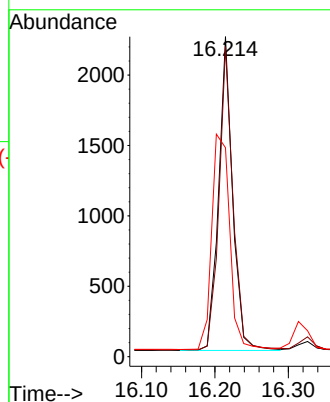
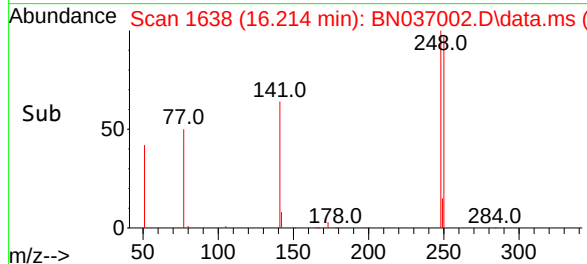
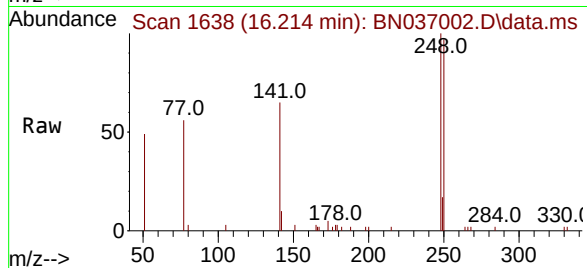




#21  
4-Bromophenyl-phenylether  
Concen: 0.782 ng  
RT: 16.214 min Scan# 1638  
Delta R.T. 0.000 min  
Lab File: BN037002.D  
Acq: 13 May 2025 19:29

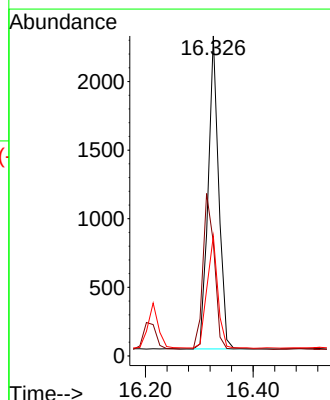
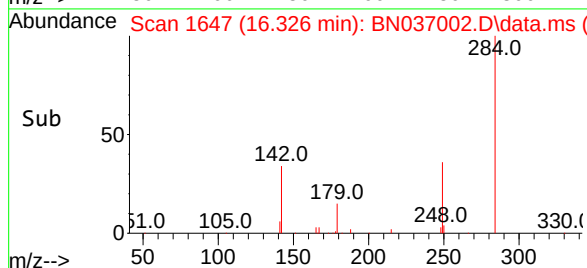
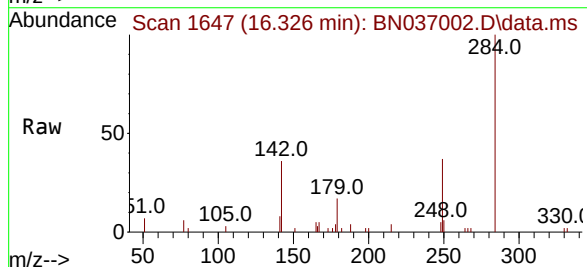
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

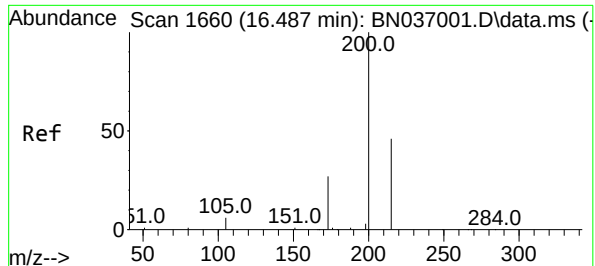
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 248     | 100   |       |       |
| 250     | 96.8  | 78.1  | 117.1 |
| 141     | 65.3  | 59.7  | 89.5  |



#22  
Hexachlorobenzene  
Concen: 0.766 ng  
RT: 16.326 min Scan# 1647  
Delta R.T. 0.000 min  
Lab File: BN037002.D  
Acq: 13 May 2025 19:29

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 284     | 100   |       |       |
| 142     | 54.2  | 41.2  | 61.8  |
| 249     | 36.8  | 28.7  | 43.1  |

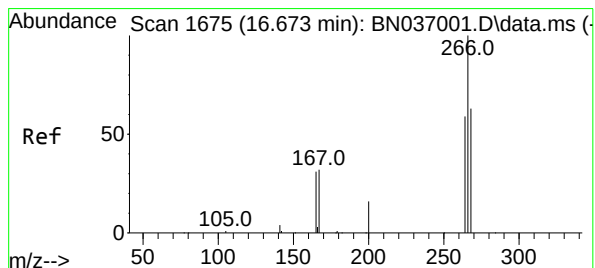
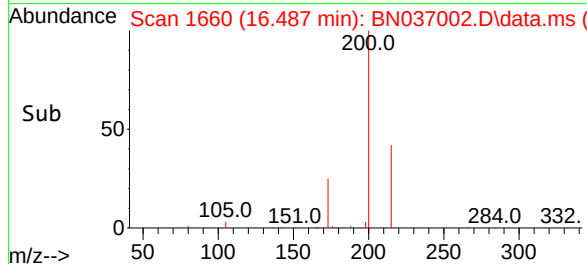
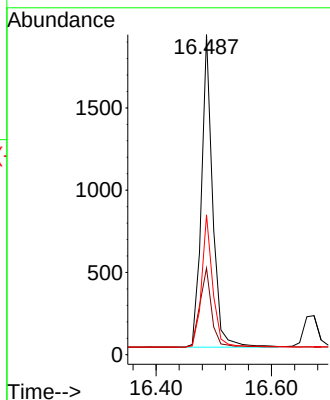
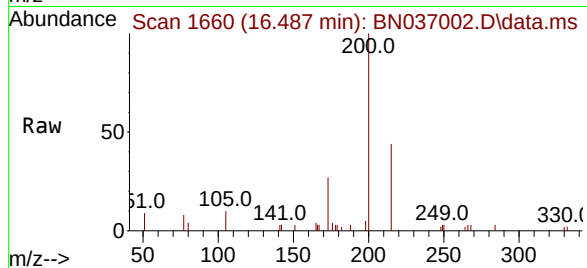




#23  
Atrazine  
Concen: 0.775 ng  
RT: 16.487 min Scan# 1660  
Delta R.T. 0.000 min  
Lab File: BN037002.D  
Acq: 13 May 2025 19:29

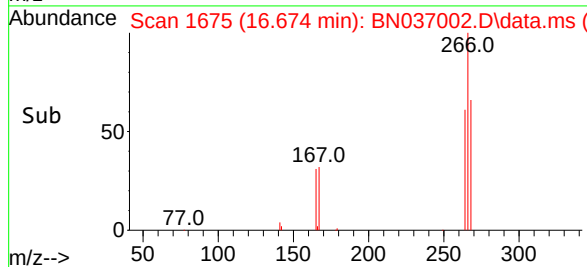
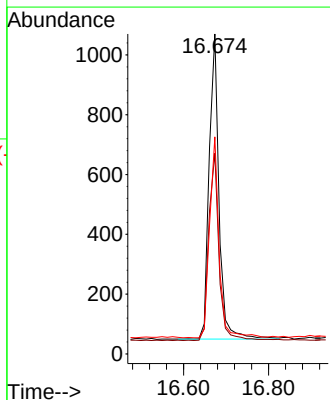
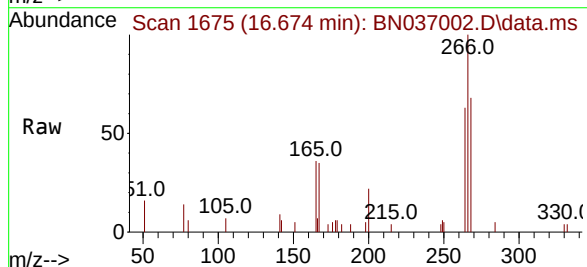
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

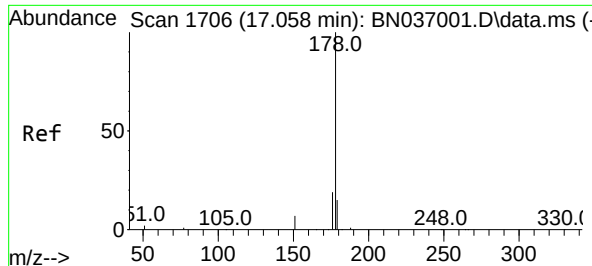
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 200     | 100   |       |       |
| 173     | 27.0  | 25.2  | 37.8  |
| 215     | 43.7  | 39.3  | 58.9  |



#24  
Pentachlorophenol  
Concen: 0.730 ng  
RT: 16.674 min Scan# 1675  
Delta R.T. 0.000 min  
Lab File: BN037002.D  
Acq: 13 May 2025 19:29

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 266     | 100   |       |       |
| 264     | 63.6  | 47.9  | 71.9  |
| 268     | 63.6  | 50.0  | 75.0  |

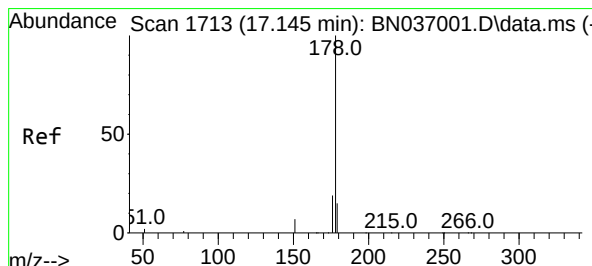
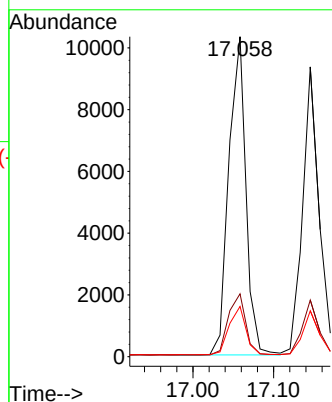
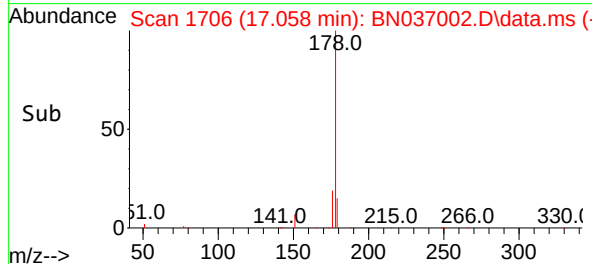
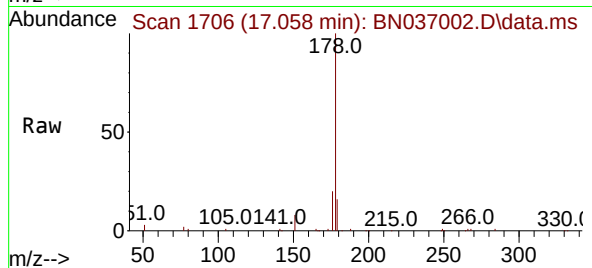




#25  
Phenanthrene  
Concen: 0.773 ng  
RT: 17.058 min Scan# 1706  
Delta R.T. 0.000 min  
Lab File: BN037002.D  
Acq: 13 May 2025 19:29

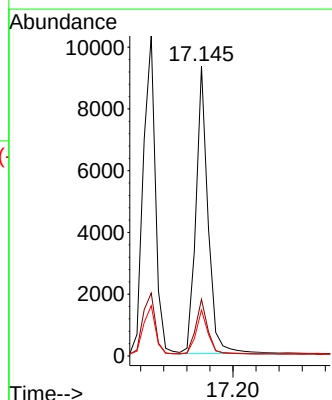
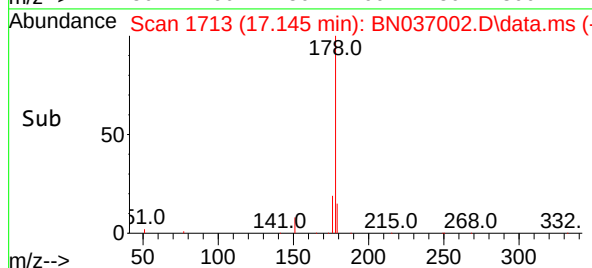
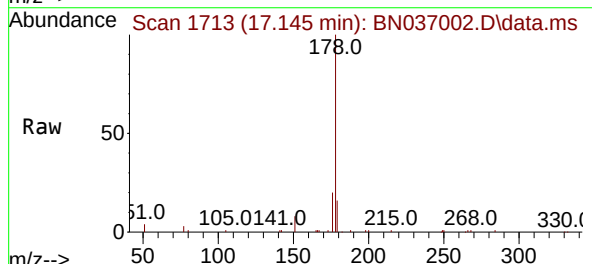
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

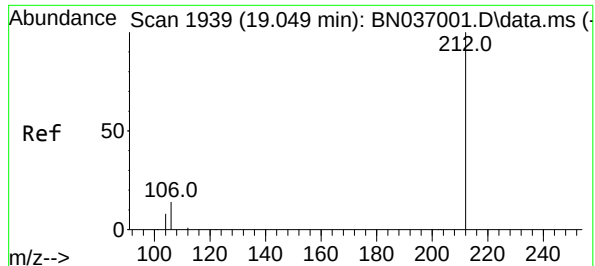
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.8  | 15.7  | 23.5  |
| 179     | 15.2  | 12.2  | 18.2  |



#26  
Anthracene  
Concen: 0.760 ng  
RT: 17.145 min Scan# 1713  
Delta R.T. 0.000 min  
Lab File: BN037002.D  
Acq: 13 May 2025 19:29

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.2  | 15.0  | 22.6  |
| 179     | 15.1  | 12.3  | 18.5  |





#27

Fluoranthene-d10

Concen: 0.760 ng

RT: 19.054 min Scan# 1940

Delta R.T. 0.005 min

Lab File: BN037002.D

Acq: 13 May 2025 19:29

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8

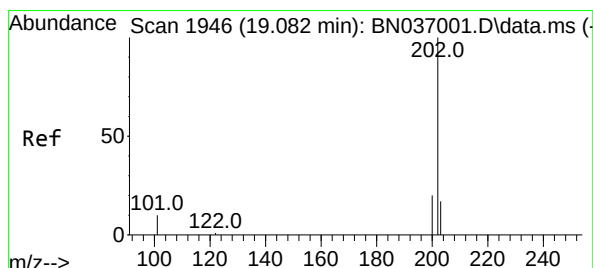
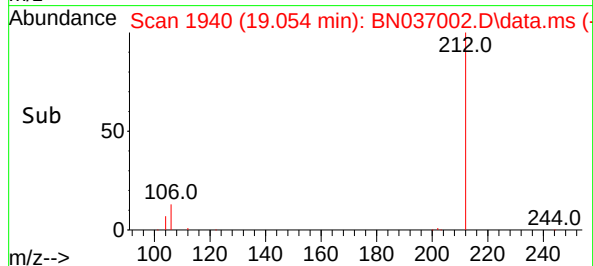
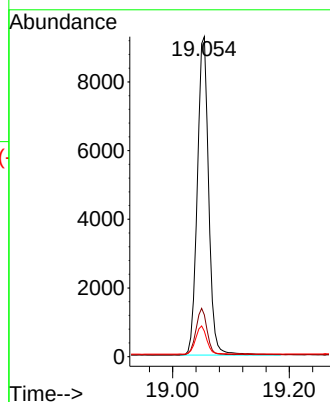
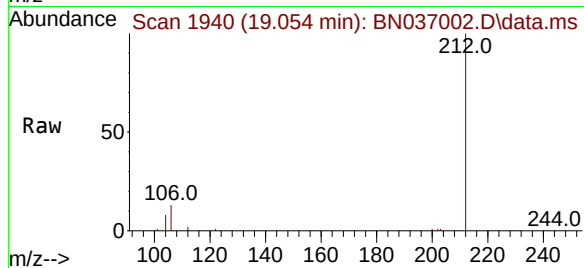
Tgt Ion:212 Resp: 12492

Ion Ratio Lower Upper

212 100

106 14.4 11.3 16.9

104 8.7 6.7 10.1



#28

Fluoranthene

Concen: 0.766 ng

RT: 19.082 min Scan# 1946

Delta R.T. 0.000 min

Lab File: BN037002.D

Acq: 13 May 2025 19:29

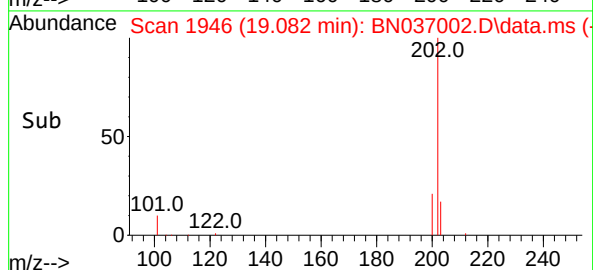
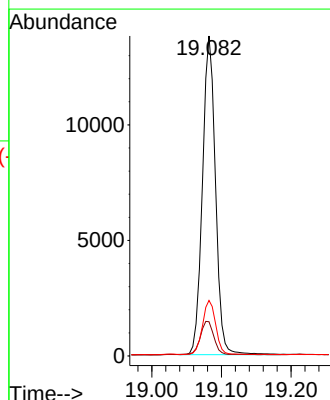
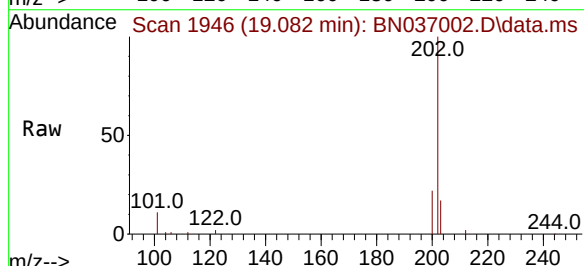
Tgt Ion:202 Resp: 17938

Ion Ratio Lower Upper

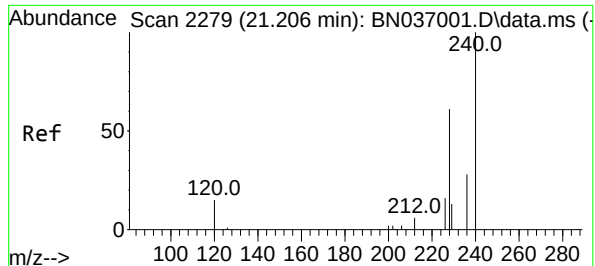
202 100

101 11.3 8.9 13.3

203 17.2 13.8 20.8







#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.207 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037002.D

Acq: 13 May 2025 19:29

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8

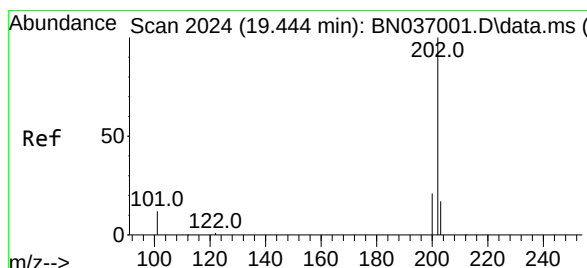
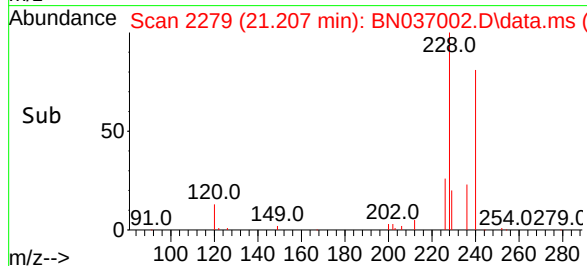
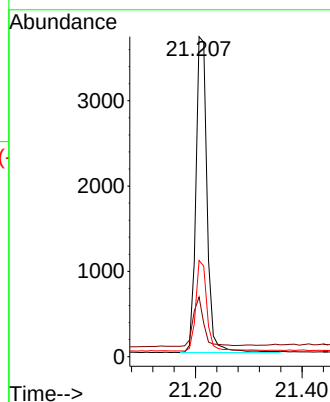
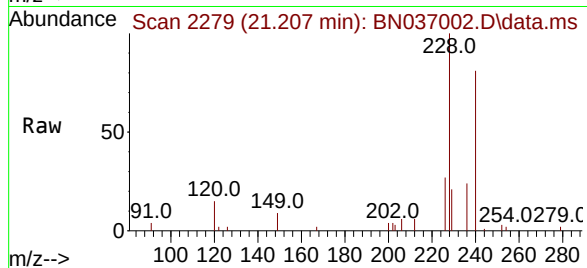
Tgt Ion:240 Resp: 5456

Ion Ratio Lower Upper

240 100

120 18.6 15.1 22.7

236 30.0 24.0 36.0



#30

Pyrene

Concen: 0.774 ng

RT: 19.444 min Scan# 2024

Delta R.T. 0.000 min

Lab File: BN037002.D

Acq: 13 May 2025 19:29

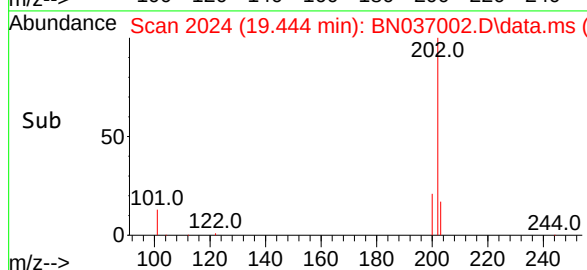
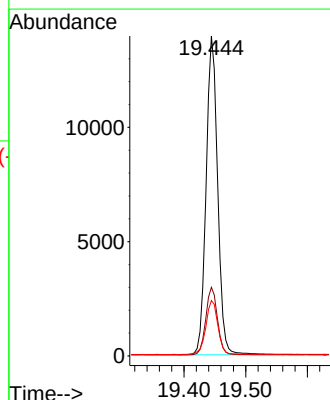
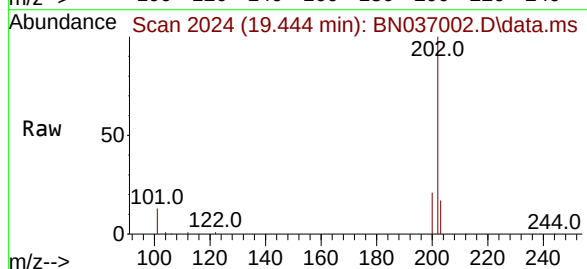
Tgt Ion:202 Resp: 18075

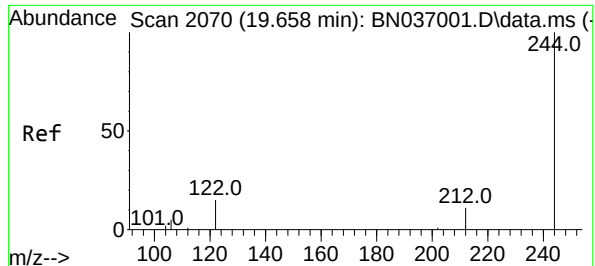
Ion Ratio Lower Upper

202 100

200 21.3 17.1 25.7

203 17.6 14.2 21.4





#31

Terphenyl-d14

Concen: 0.769 ng

RT: 19.658 min Scan# 2070

Delta R.T. 0.000 min

Lab File: BN037002.D

Acq: 13 May 2025 19:29

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8

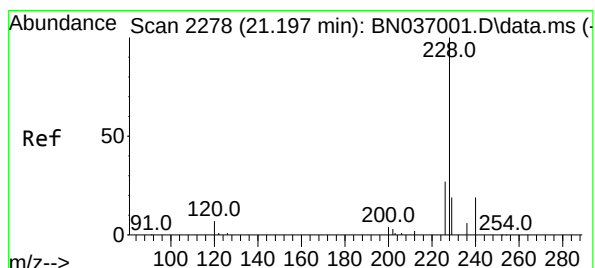
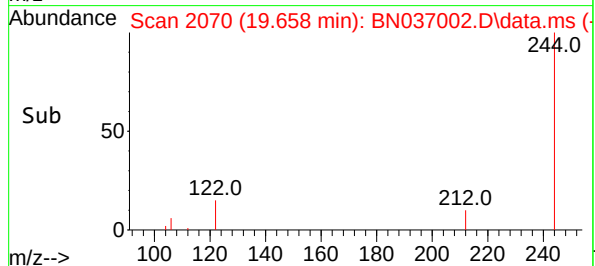
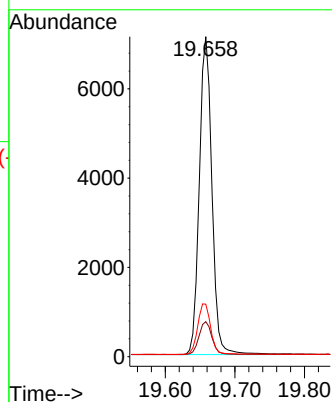
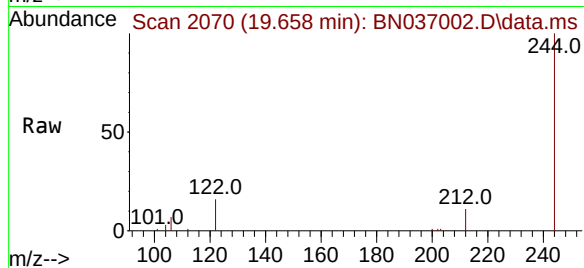
Tgt Ion:244 Resp: 8975

Ion Ratio Lower Upper

244 100

212 11.0 9.7 14.5

122 16.4 13.4 20.0



#32

Benzo(a)anthracene

Concen: 0.764 ng

RT: 21.198 min Scan# 2278

Delta R.T. 0.000 min

Lab File: BN037002.D

Acq: 13 May 2025 19:29

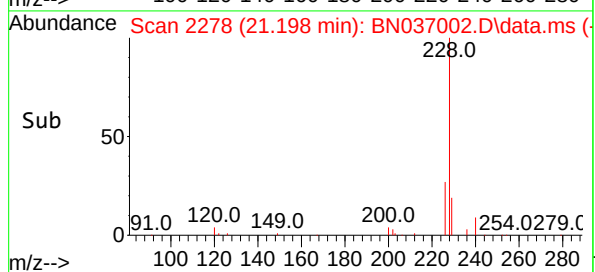
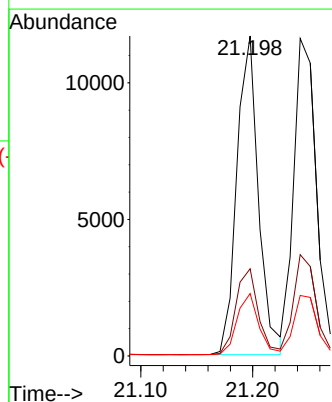
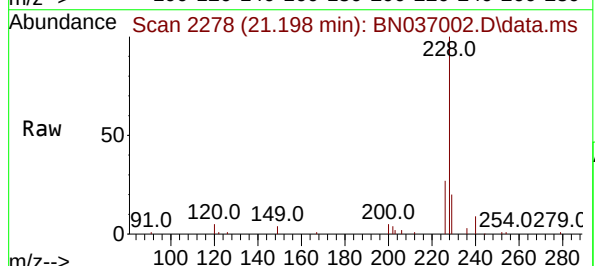
Tgt Ion:228 Resp: 15689

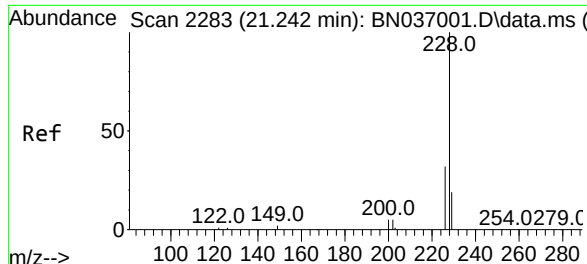
Ion Ratio Lower Upper

228 100

226 27.2 22.2 33.4

229 19.5 16.0 24.0





#33

Chrysene

Concen: 0.769 ng

RT: 21.242 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037002.D

Acq: 13 May 2025 19:29

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8

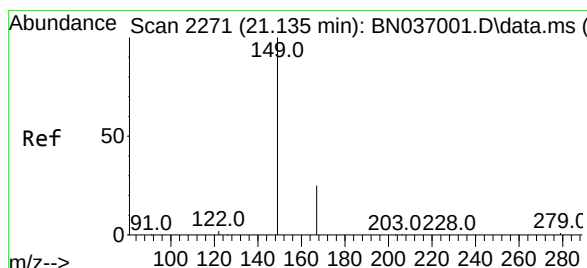
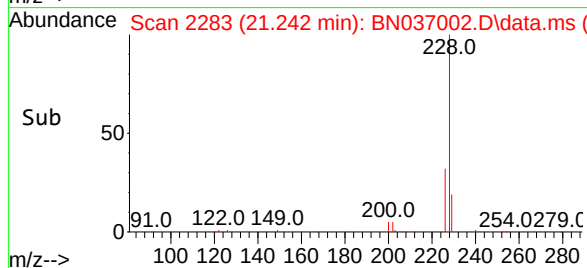
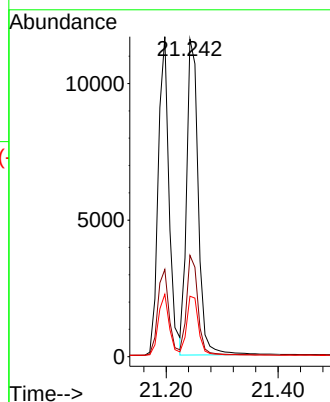
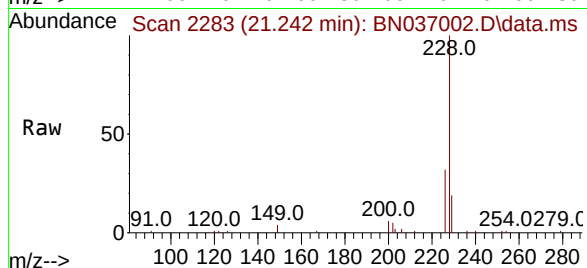
Tgt Ion:228 Resp: 16717

Ion Ratio Lower Upper

228 100

226 31.9 26.3 39.5

229 19.1 16.2 24.2



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.737 ng

RT: 21.135 min Scan# 2271

Delta R.T. 0.000 min

Lab File: BN037002.D

Acq: 13 May 2025 19:29

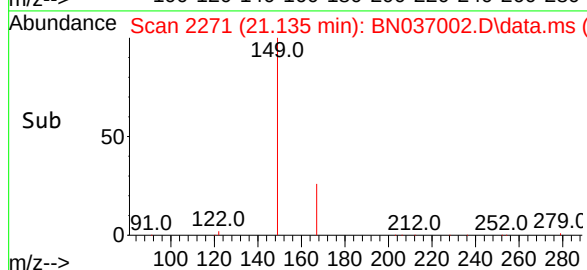
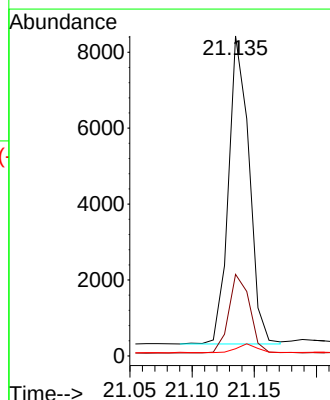
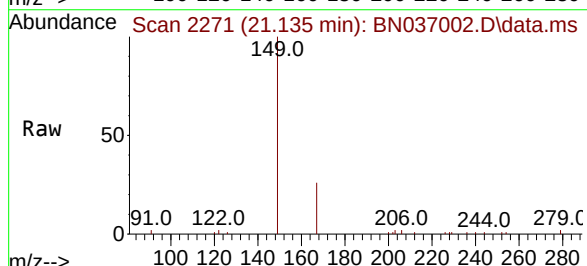
Tgt Ion:149 Resp: 9326

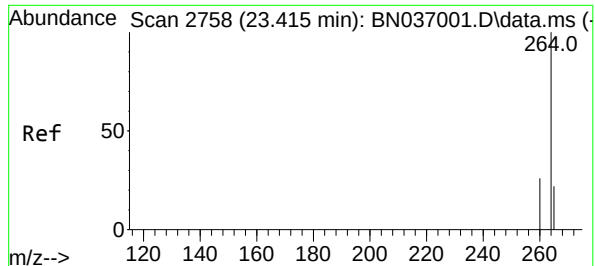
Ion Ratio Lower Upper

149 100

167 26.3 20.6 30.8

279 2.8 2.6 3.8





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.418 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN037002.D

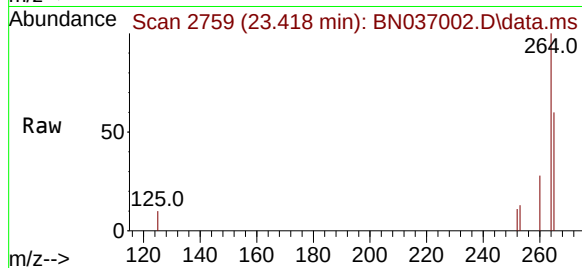
Acq: 13 May 2025 19:29

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8



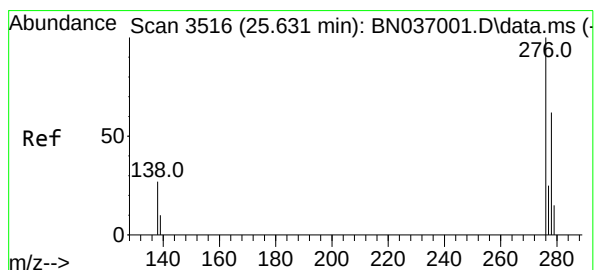
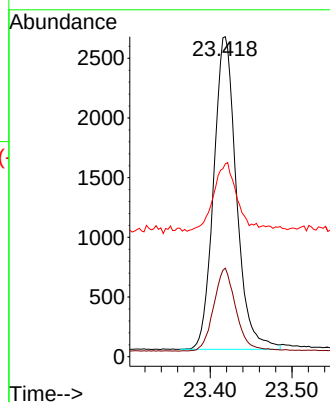
Tgt Ion:264 Resp: 5077

Ion Ratio Lower Upper

264 100

260 27.6 21.9 32.9

265 60.3 51.6 77.4



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.768 ng

RT: 25.629 min Scan# 3515

Delta R.T. -0.003 min

Lab File: BN037002.D

Acq: 13 May 2025 19:29

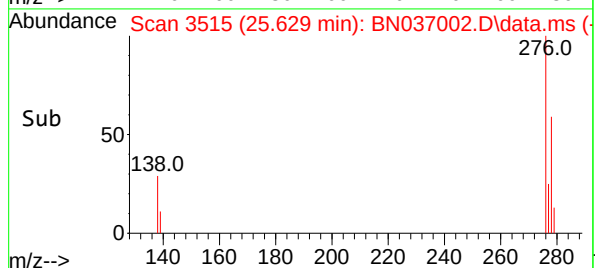
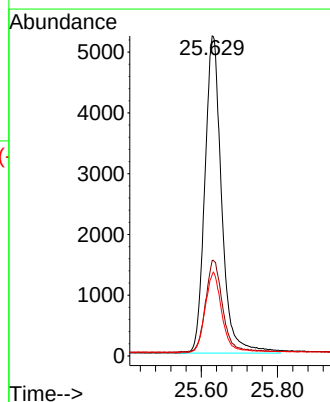
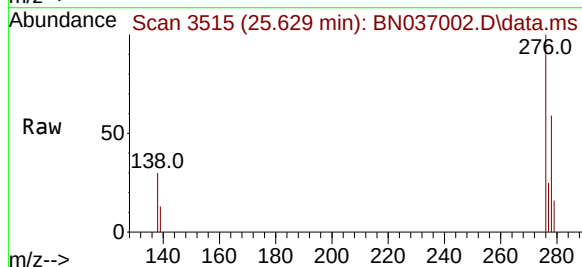
Tgt Ion:276 Resp: 15921

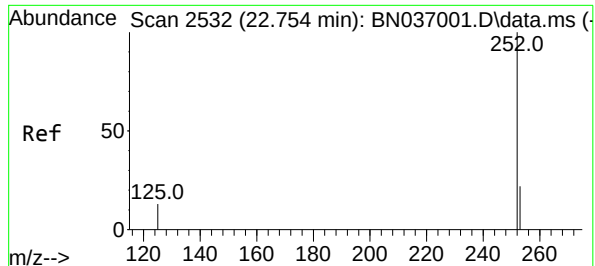
Ion Ratio Lower Upper

276 100

138 29.0 22.7 34.1

277 24.9 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 0.772 ng

RT: 22.755 min Scan# 2532

Delta R.T. 0.000 min

Lab File: BN037002.D

Acq: 13 May 2025 19:29

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8

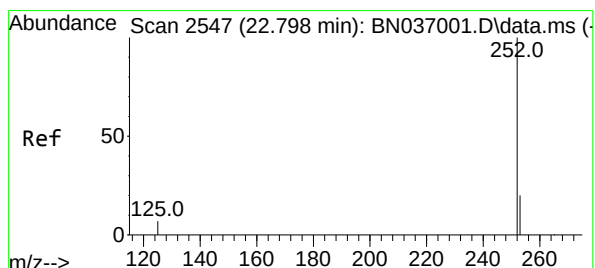
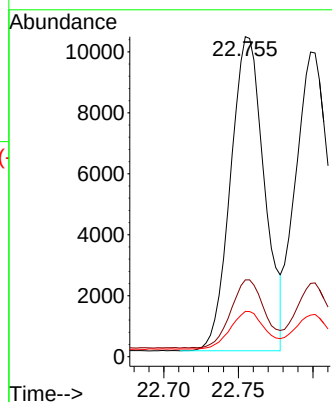
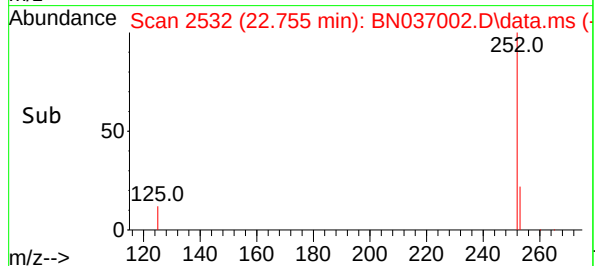
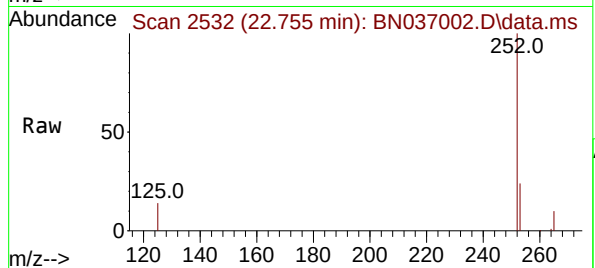
Tgt Ion:252 Resp: 16240

Ion Ratio Lower Upper

252 100

253 24.0 21.8 32.6

125 14.2 14.6 21.8#



#38

Benzo(k)fluoranthene

Concen: 0.782 ng

RT: 22.798 min Scan# 2547

Delta R.T. 0.000 min

Lab File: BN037002.D

Acq: 13 May 2025 19:29

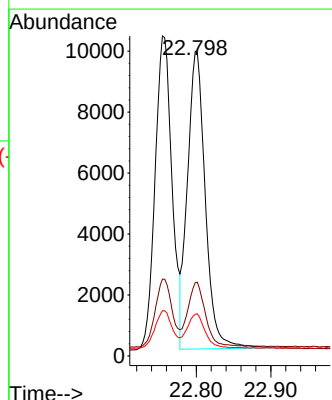
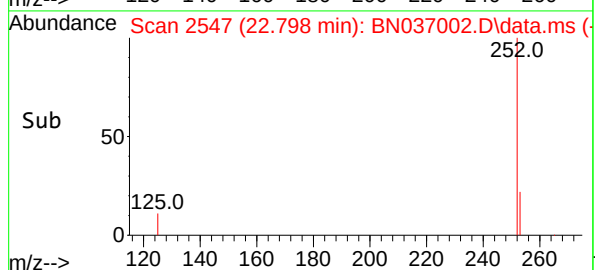
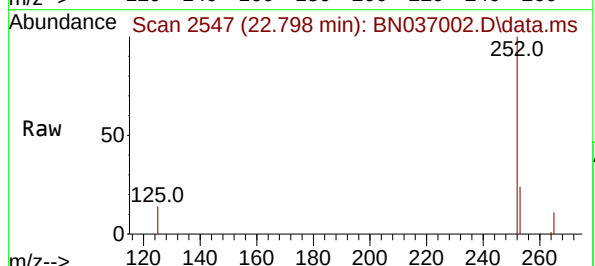
Tgt Ion:252 Resp: 16259

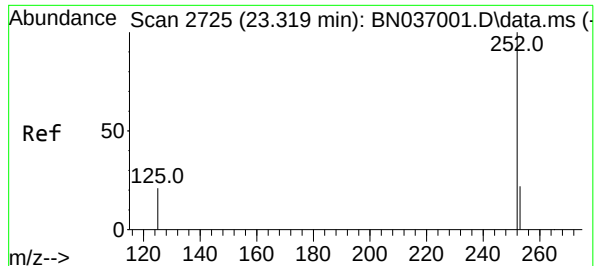
Ion Ratio Lower Upper

252 100

253 24.0 21.4 32.2

125 13.7 13.0 19.4





#39

Benzo(a)pyrene

Concen: 0.757 ng

RT: 23.322 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN037002.D

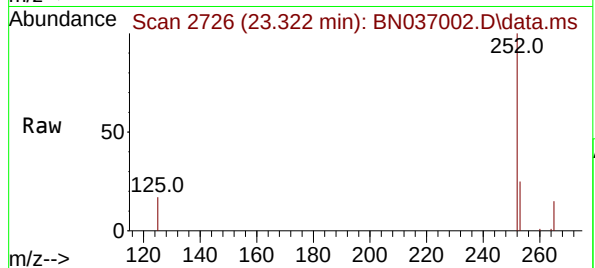
Acq: 13 May 2025 19:29

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8



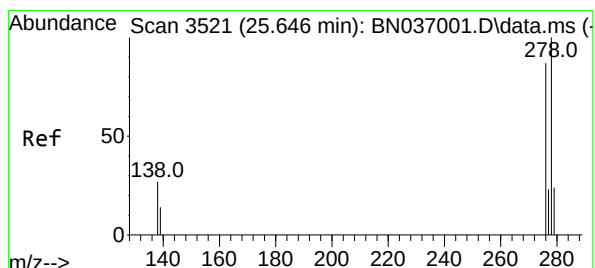
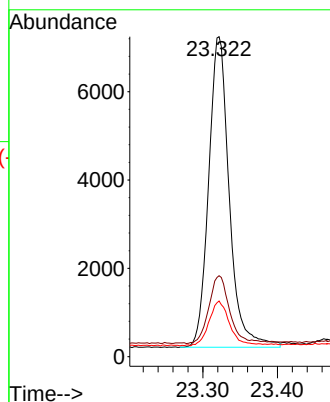
Tgt Ion:252 Resp: 13516

Ion Ratio Lower Upper

252 100

253 25.3 23.8 35.6

125 17.4 21.8 32.6#



#40

Dibenzo(a,h)anthracene

Concen: 0.777 ng

RT: 25.643 min Scan# 3520

Delta R.T. -0.003 min

Lab File: BN037002.D

Acq: 13 May 2025 19:29

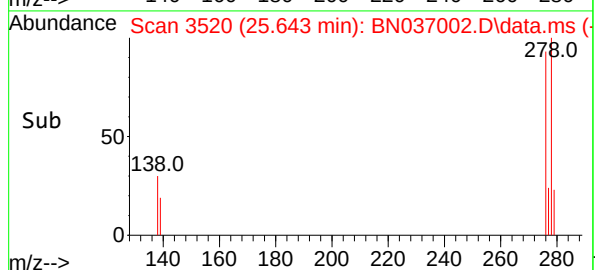
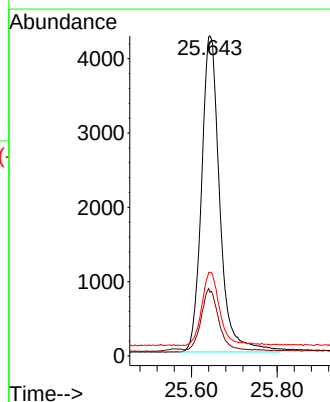
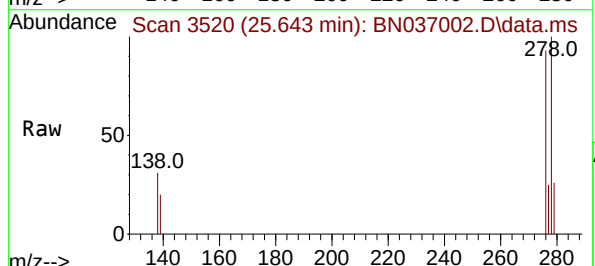
Tgt Ion:278 Resp: 12556

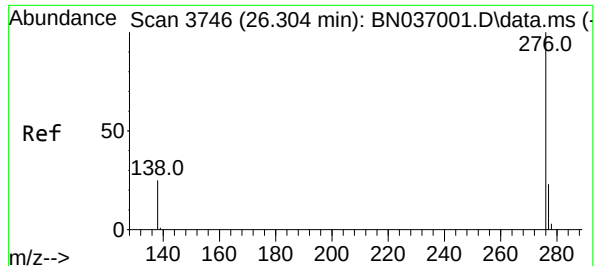
Ion Ratio Lower Upper

278 100

139 20.0 17.4 26.0

279 26.2 24.6 37.0





#41

Benzo(g,h,i)perylene

Concen: 0.769 ng

RT: 26.307 min Scan# 31

Delta R.T. 0.003 min

Lab File: BN037002.D

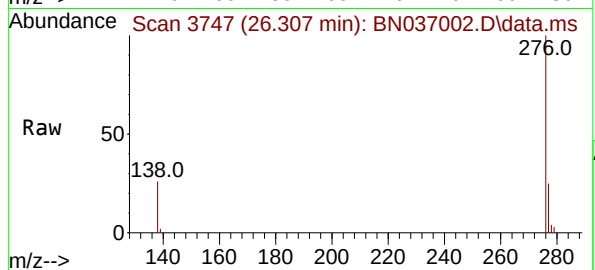
Acq: 13 May 2025 19:29

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8



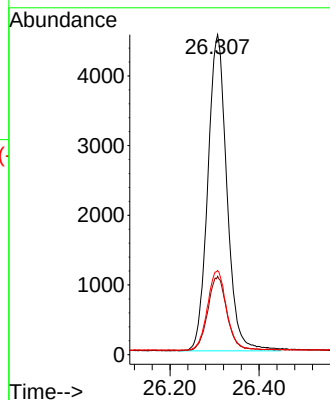
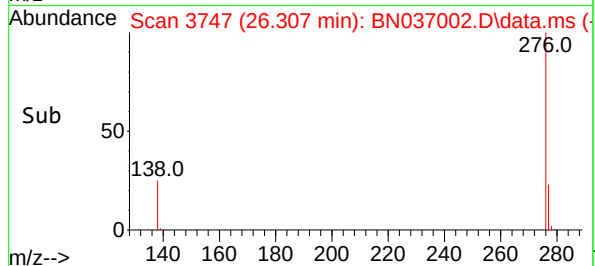
Tgt Ion:276 Resp: 13503

Ion Ratio Lower Upper

276 100

277 24.5 20.2 30.4

138 26.3 22.0 33.0



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN051425\  
 Data File : BN037003.D  
 Acq On : 13 May 2025 20:05  
 Operator : RC/JU  
 Sample : SSTDICC1.6  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC1.6

Quant Time: May 14 11:01:27 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN051425.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 14 10:57:36 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.618  | 152  | 2134     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.394 | 136  | 5654     | 0.400 | ng    | #-0.01   |
| 13) Acenaphthene-d10          | 14.267 | 164  | 3305     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 17.009 | 188  | 6678     | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 21.207 | 240  | 6288     | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.418 | 264  | 5747     | 0.400 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.213  | 112  | 9332     | 1.669 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.795  | 99   | 11879    | 1.698 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.760  | 82   | 10231    | 1.662 | ng    | -0.01    |
| 11) 2-Methylnaphthalene-d10   | 11.996 | 152  | 13642    | 1.714 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.767 | 330  | 2461     | 1.695 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.888 | 172  | 25480    | 1.684 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 19.054 | 212  | 30804    | 1.682 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.658 | 244  | 22417    | 1.667 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| Target Compounds              |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.141  | 88   | 4389     | 1.676 | ng    | 96       |
| 3) n-Nitrosodimethylamine     | 3.451  | 42   | 9172     | 1.630 | ng    | # 92     |
| 6) bis(2-Chloroethyl)ether    | 7.048  | 93   | 10588    | 1.645 | ng    | 99       |
| 9) Naphthalene                | 10.447 | 128  | 27723    | 1.659 | ng    | 97       |
| 10) Hexachlorobutadiene       | 10.746 | 225  | 5780     | 1.648 | ng    | # 99     |
| 12) 2-Methylnaphthalene       | 12.072 | 142  | 18399    | 1.712 | ng    | 99       |
| 16) Acenaphthylene            | 13.989 | 152  | 27375    | 1.702 | ng    | 100      |
| 17) Acenaphthene              | 14.331 | 154  | 17846    | 1.698 | ng    | 98       |
| 18) Fluorene                  | 15.314 | 166  | 23515    | 1.705 | ng    | 100      |
| 20) 4,6-Dinitro-2-methylph... | 15.400 | 198  | 2713     | 1.748 | ng    | # 73     |
| 21) 4-Bromophenyl-phenylether | 16.214 | 248  | 7008     | 1.661 | ng    | 94       |
| 22) Hexachlorobenzene         | 16.326 | 284  | 7515     | 1.664 | ng    | 99       |
| 23) Atrazine                  | 16.487 | 200  | 6336     | 1.722 | ng    | 92       |
| 24) Pentachlorophenol         | 16.674 | 266  | 4256     | 1.697 | ng    | 98       |
| 25) Phenanthrene              | 17.058 | 178  | 36506    | 1.673 | ng    | 100      |
| 26) Anthracene                | 17.145 | 178  | 33908    | 1.707 | ng    | 99       |
| 28) Fluoranthene              | 19.082 | 202  | 44613    | 1.711 | ng    | 100      |
| 30) Pyrene                    | 19.444 | 202  | 45015    | 1.674 | ng    | 100      |
| 32) Benzo(a)anthracene        | 21.198 | 228  | 40103    | 1.694 | ng    | 99       |
| 33) Chrysene                  | 21.251 | 228  | 41576    | 1.660 | ng    | 96       |
| 34) Bis(2-ethylhexyl)phtha... | 21.135 | 149  | 23656    | 1.621 | ng    | 99       |
| 36) Indeno(1,2,3-cd)pyrene    | 25.631 | 276  | 38771    | 1.652 | ng    | 98       |
| 37) Benzo(b)fluoranthene      | 22.757 | 252  | 40209    | 1.688 | ng    | # 90     |
| 38) Benzo(k)fluoranthene      | 22.798 | 252  | 40699    | 1.729 | ng    | # 91     |
| 39) Benzo(a)pyrene            | 23.322 | 252  | 34149    | 1.689 | ng    | # 82     |
| 40) Dibenzo(a,h)anthracene    | 25.643 | 278  | 30810    | 1.685 | ng    | # 91     |
| 41) Benzo(g,h,i)perylene      | 26.307 | 276  | 32256    | 1.624 | ng    | 97       |
| -----                         |        |      |          |       |       |          |

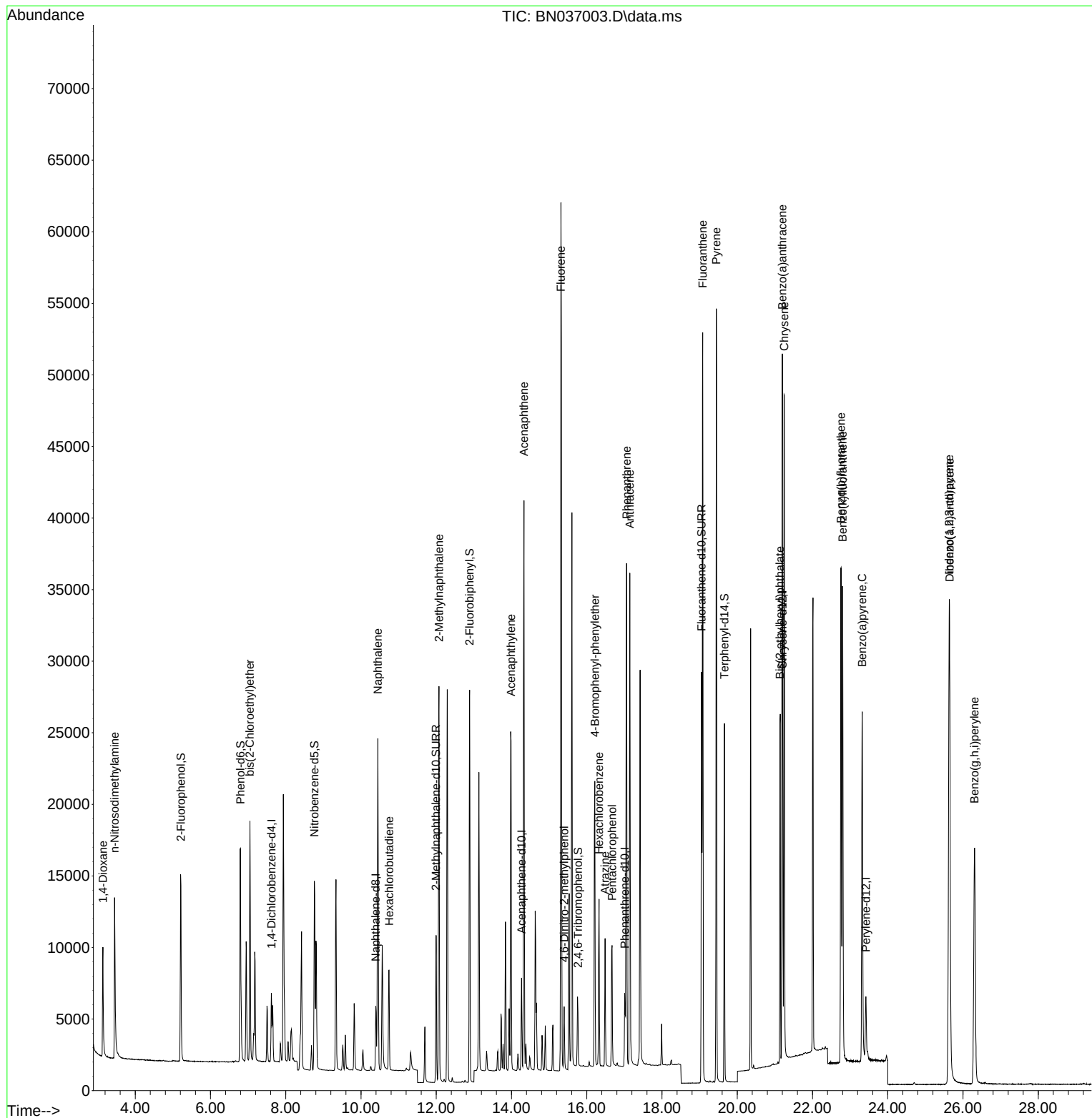
(#) = qualifier out of range (m) = manual integration (+) = signals summed

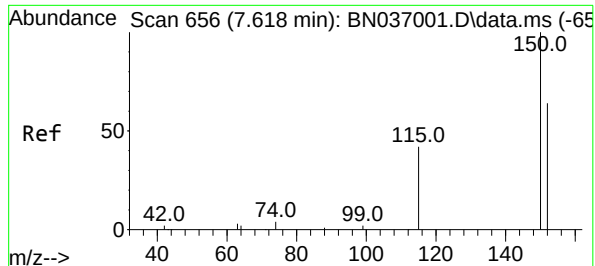


Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN051425\  
Data File : BN037003.D  
Acq On : 13 May 2025 20:05  
Operator : RC/JU  
Sample : SSTDICC1.6  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

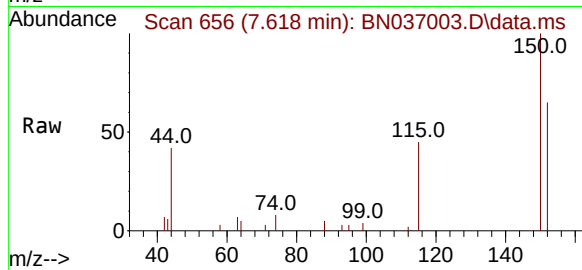
Quant Time: May 14 11:01:27 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN051425.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed May 14 10:57:36 2025  
Response via : Initial Calibration



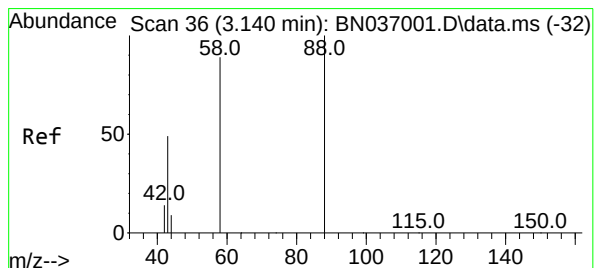
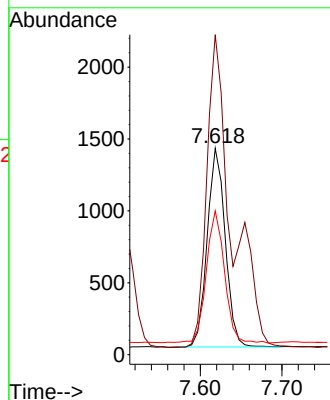
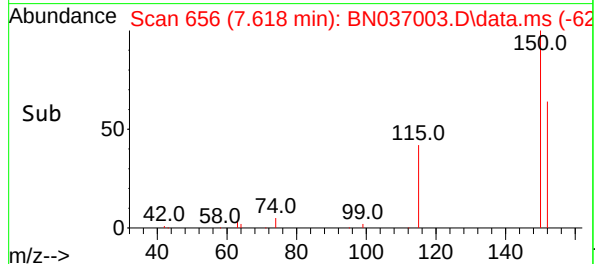


#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.618 min Scan# 61  
Delta R.T. 0.000 min  
Lab File: BN037003.D  
Acq: 13 May 2025 20:05

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

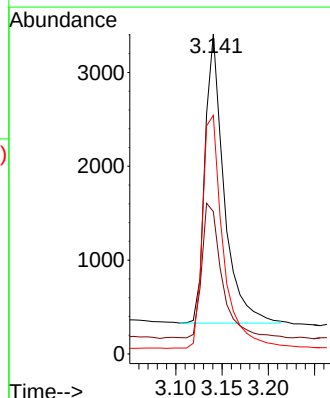
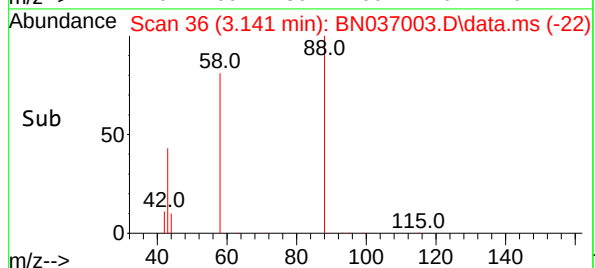
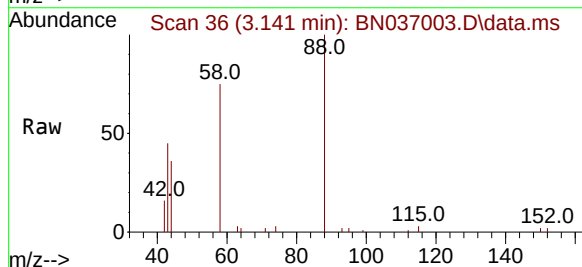


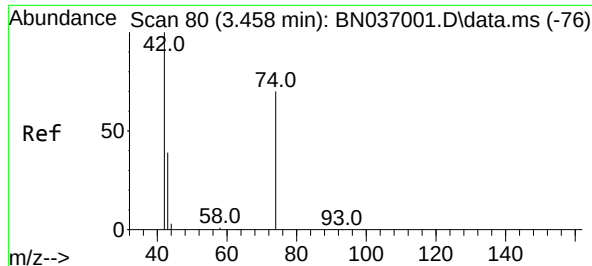
Tgt Ion:152 Resp: 2134  
Ion Ratio Lower Upper  
152 100  
150 155.0 123.9 185.9  
115 69.6 55.8 83.8



#2  
1,4-Dioxane  
Concen: 1.676 ng  
RT: 3.141 min Scan# 36  
Delta R.T. 0.001 min  
Lab File: BN037003.D  
Acq: 13 May 2025 20:05

Tgt Ion: 88 Resp: 4389  
Ion Ratio Lower Upper  
88 100  
43 51.0 37.4 56.0  
58 87.9 68.8 103.2

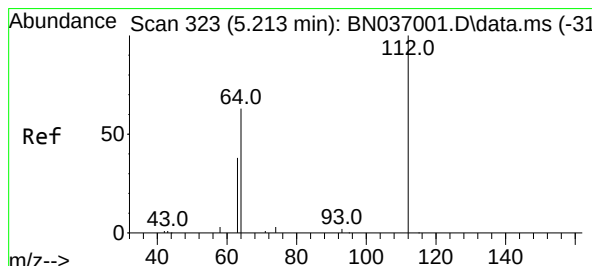
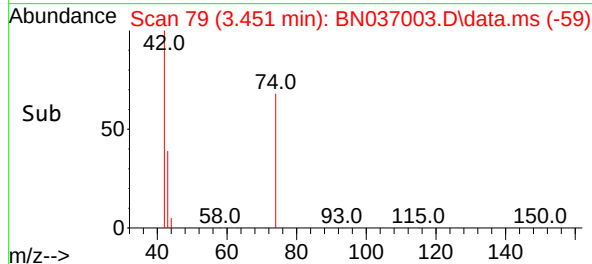
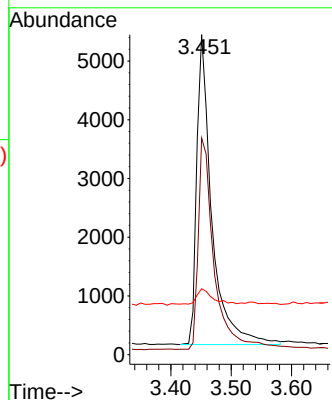
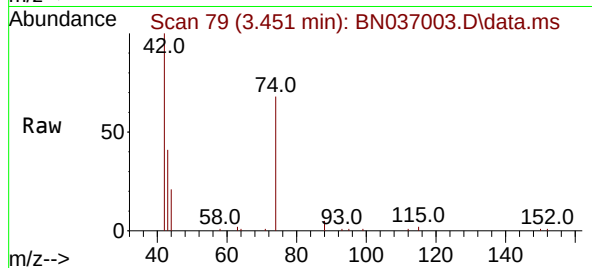




#3  
n-Nitrosodimethylamine  
Concen: 1.630 ng  
RT: 3.451 min Scan# 79  
Delta R.T. -0.007 min  
Lab File: BN037003.D  
Acq: 13 May 2025 20:05

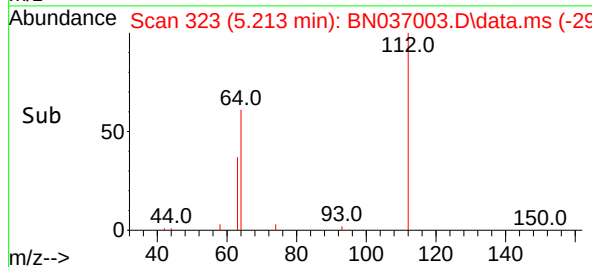
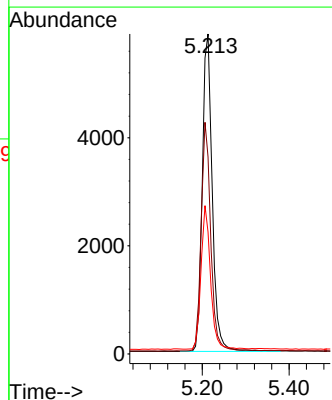
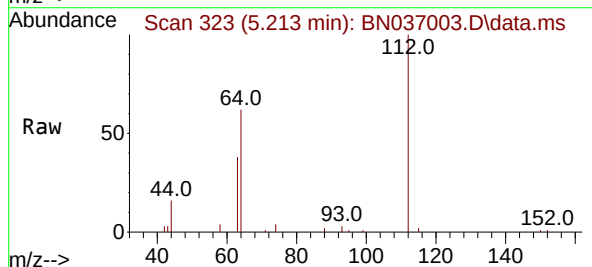
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

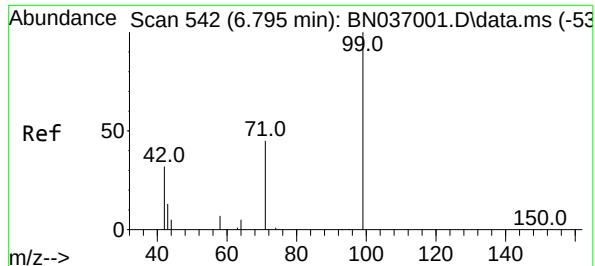
Tgt Ion: 42 Resp: 9172  
Ion Ratio Lower Upper  
42 100  
74 71.1 59.8 89.6  
44 5.1 11.9 17.9#



#4  
2-Fluorophenol  
Concen: 1.669 ng  
RT: 5.213 min Scan# 323  
Delta R.T. 0.000 min  
Lab File: BN037003.D  
Acq: 13 May 2025 20:05

Tgt Ion: 112 Resp: 9332  
Ion Ratio Lower Upper  
112 100  
64 69.9 55.7 83.5  
63 43.4 34.6 51.8

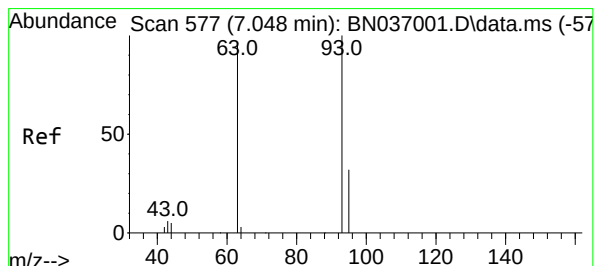
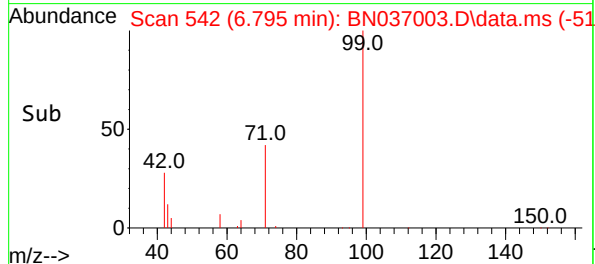
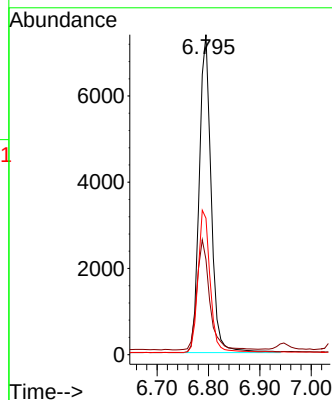
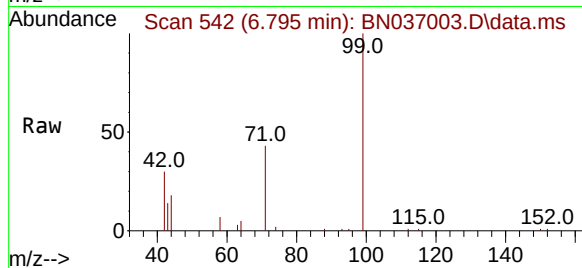




#5  
Phenol-d6  
Concen: 1.698 ng  
RT: 6.795 min Scan# 542  
Delta R.T. -0.000 min  
Lab File: BN037003.D  
Acq: 13 May 2025 20:05

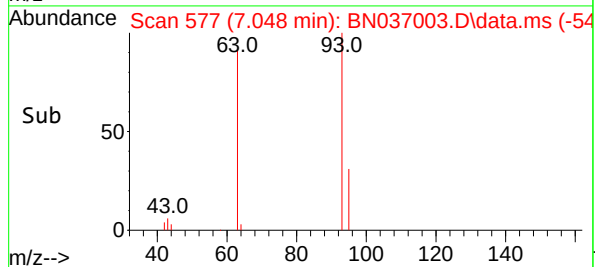
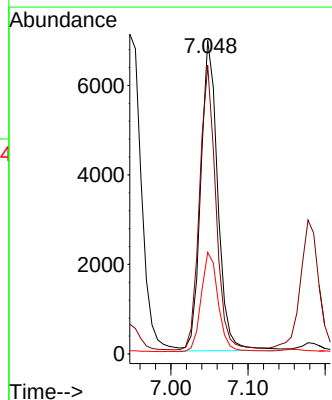
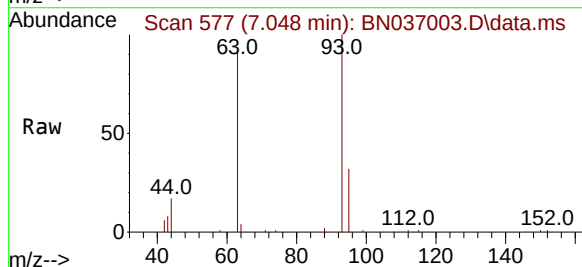
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

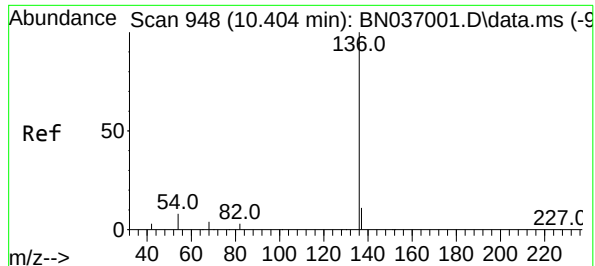
Tgt Ion: 99 Resp: 11879  
Ion Ratio Lower Upper  
99 100  
42 36.8 29.3 43.9  
71 45.6 35.7 53.5



#6  
bis(2-Chloroethyl)ether  
Concen: 1.645 ng  
RT: 7.048 min Scan# 577  
Delta R.T. 0.000 min  
Lab File: BN037003.D  
Acq: 13 May 2025 20:05

Tgt Ion: 93 Resp: 10588  
Ion Ratio Lower Upper  
93 100  
63 87.8 70.1 105.1  
95 32.0 26.2 39.2





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.394 min Scan# 94

Delta R.T. -0.011 min

Lab File: BN037003.D

Acq: 13 May 2025 20:05

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6

Tgt Ion:136 Resp: 5654

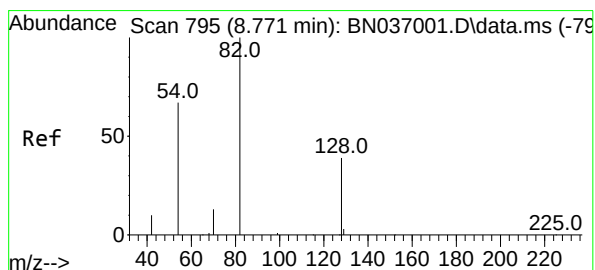
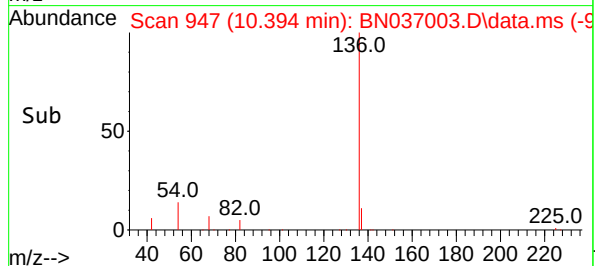
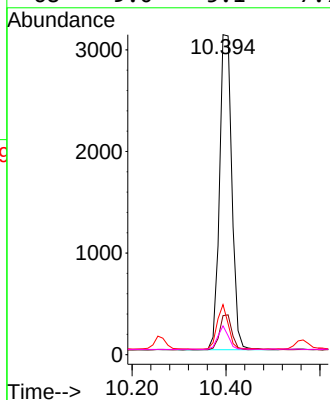
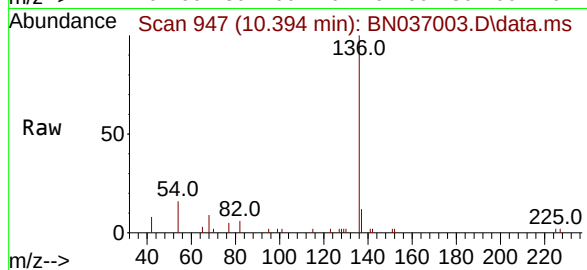
Ion Ratio Lower Upper

136 100

137 12.2 10.4 15.6

54 15.7 8.5 12.7#

68 9.0 5.1 7.7#



#8

Nitrobenzene-d5

Concen: 1.662 ng

RT: 8.760 min Scan# 794

Delta R.T. -0.011 min

Lab File: BN037003.D

Acq: 13 May 2025 20:05

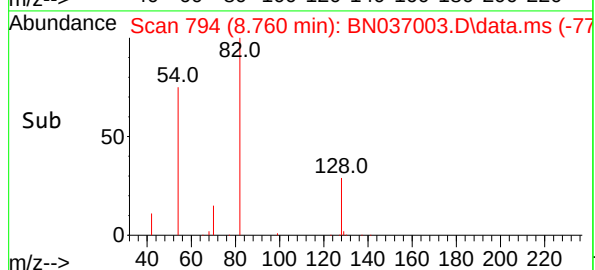
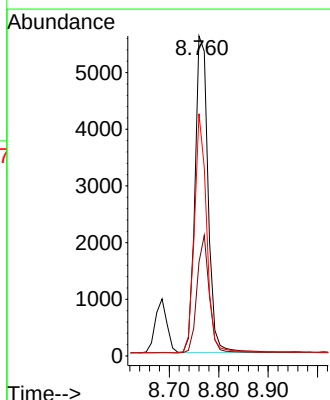
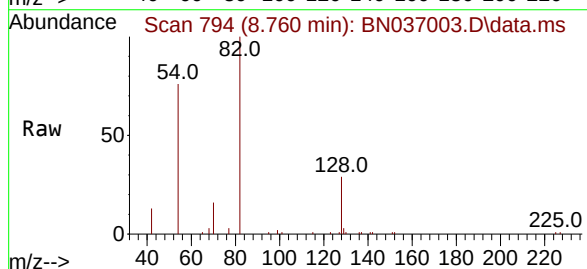
Tgt Ion: 82 Resp: 10231

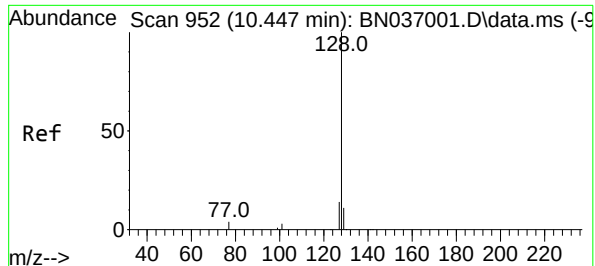
Ion Ratio Lower Upper

82 100

128 29.3 34.0 51.0#

54 75.7 55.0 82.4

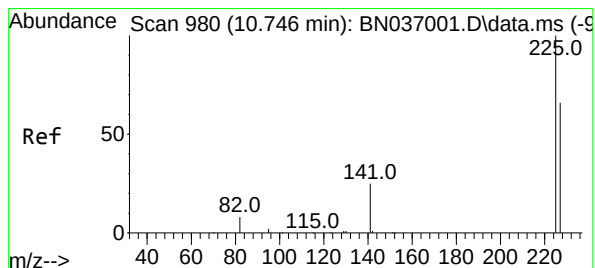
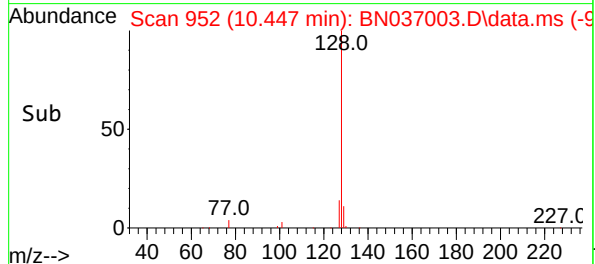
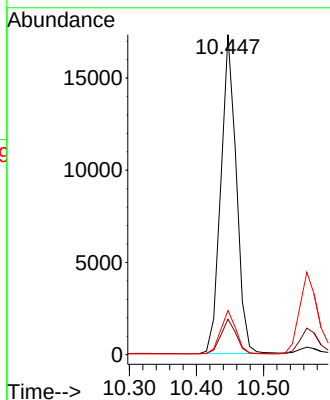
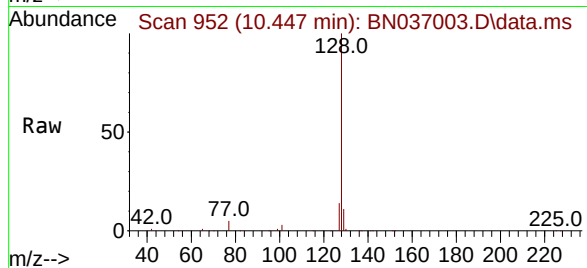




#9  
Naphthalene  
Concen: 1.659 ng  
RT: 10.447 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: BN037003.D  
Acq: 13 May 2025 20:05

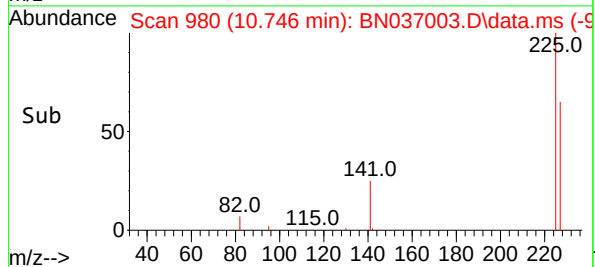
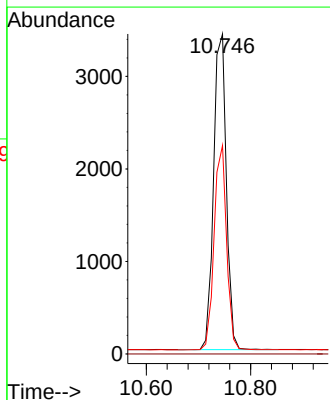
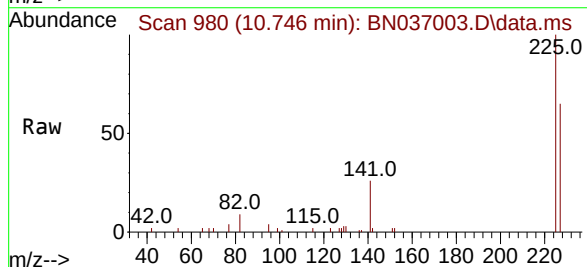
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

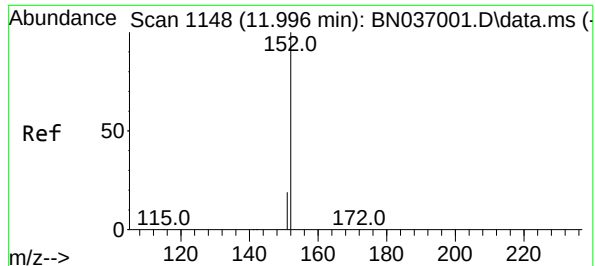
Tgt Ion:128 Resp: 27723  
Ion Ratio Lower Upper  
128 100  
129 11.1 9.7 14.5  
127 13.8 12.4 18.6



#10  
Hexachlorobutadiene  
Concen: 1.648 ng  
RT: 10.746 min Scan# 980  
Delta R.T. 0.000 min  
Lab File: BN037003.D  
Acq: 13 May 2025 20:05

Tgt Ion:225 Resp: 5780  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 63.1 50.9 76.3

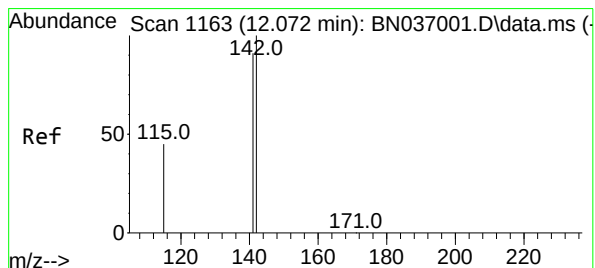
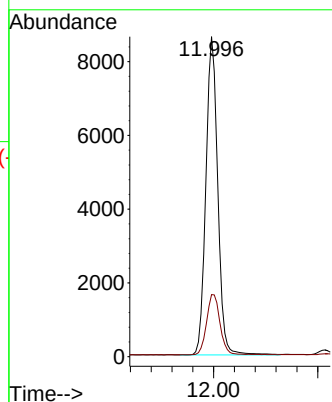
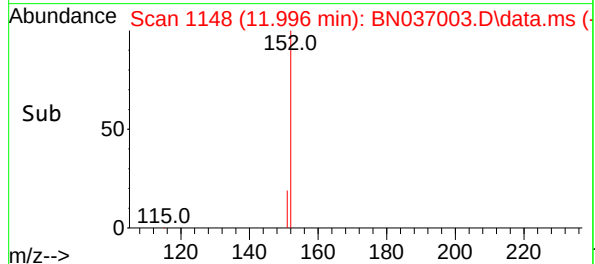
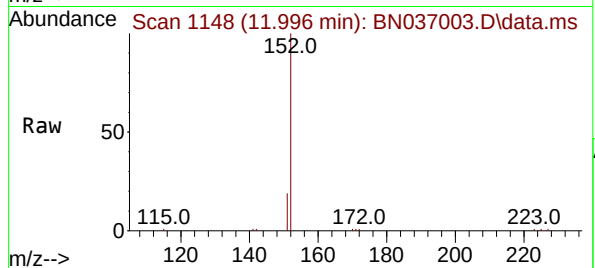




#11  
2-Methylnaphthalene-d10  
Concen: 1.714 ng  
RT: 11.996 min Scan# 1148  
Delta R.T. 0.000 min  
Lab File: BN037003.D  
Acq: 13 May 2025 20:05

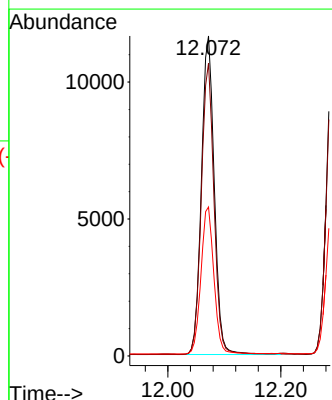
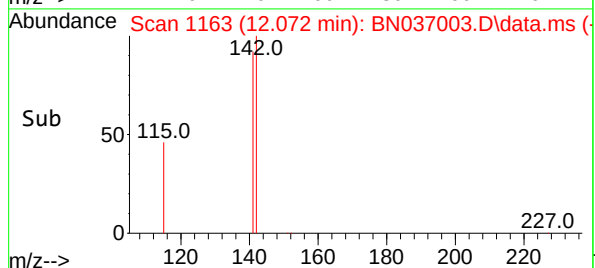
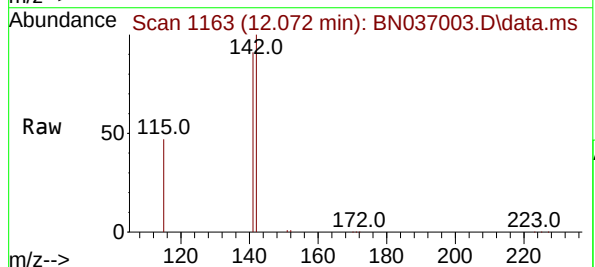
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

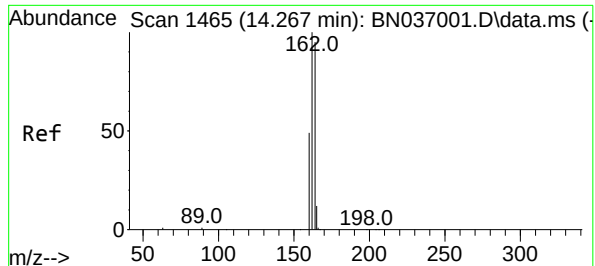
Tgt Ion:152 Resp: 13642  
Ion Ratio Lower Upper  
152 100  
151 21.4 17.5 26.3



#12  
2-Methylnaphthalene  
Concen: 1.712 ng  
RT: 12.072 min Scan# 1163  
Delta R.T. 0.000 min  
Lab File: BN037003.D  
Acq: 13 May 2025 20:05

Tgt Ion:142 Resp: 18399  
Ion Ratio Lower Upper  
142 100  
141 91.5 73.3 109.9  
115 46.6 38.4 57.6

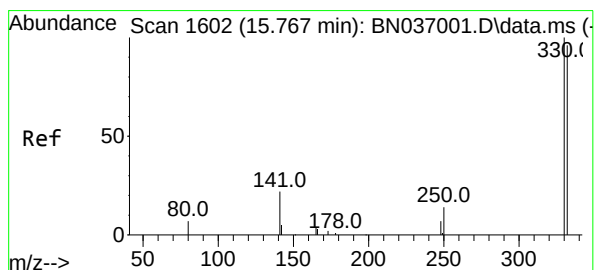
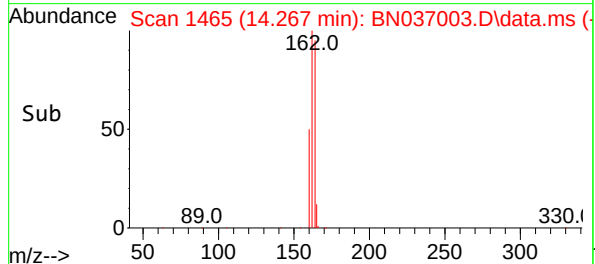
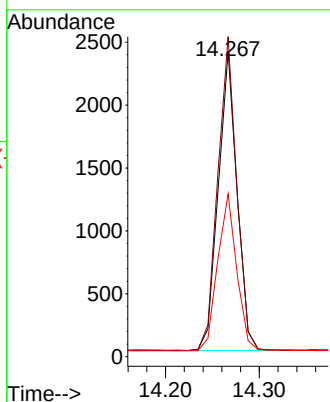
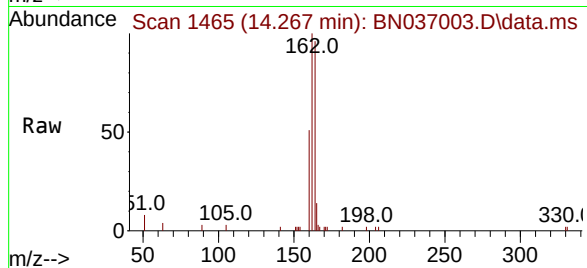




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.267 min Scan# 1465  
Delta R.T. 0.000 min  
Lab File: BN037003.D  
Acq: 13 May 2025 20:05

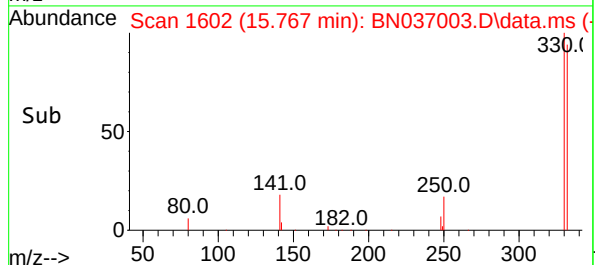
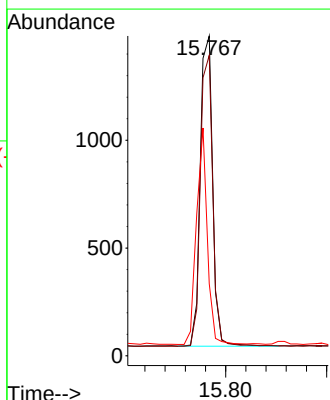
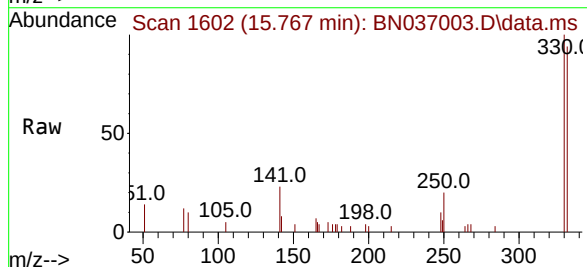
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

| Tgt Ion | 164   | Resp  | 3305  |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 164     | 100   |       |       |
| 162     | 104.7 | 84.2  | 126.4 |
| 160     | 53.3  | 42.6  | 63.8  |

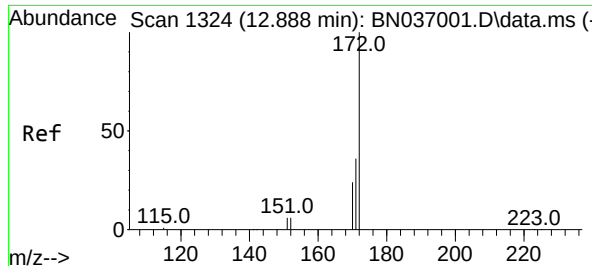


#14  
2,4,6-Tribromophenol  
Concen: 1.695 ng  
RT: 15.767 min Scan# 1602  
Delta R.T. 0.000 min  
Lab File: BN037003.D  
Acq: 13 May 2025 20:05

| Tgt Ion | 330   | Resp  | 2461  |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 330     | 100   |       |       |
| 332     | 93.9  | 73.8  | 110.8 |
| 141     | 60.9  | 43.9  | 65.9  |



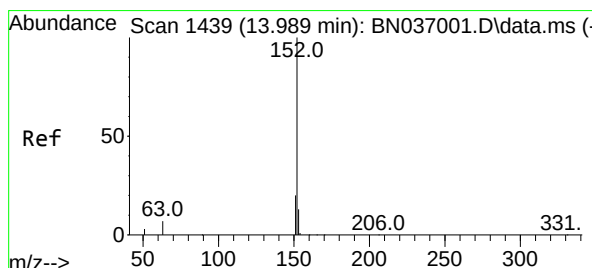
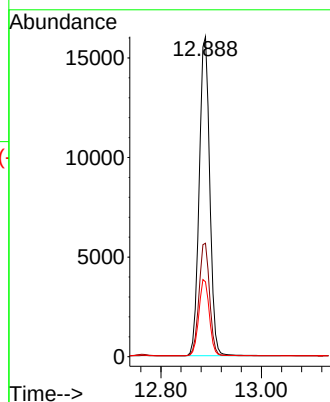
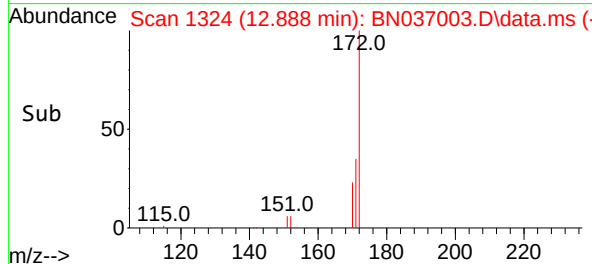
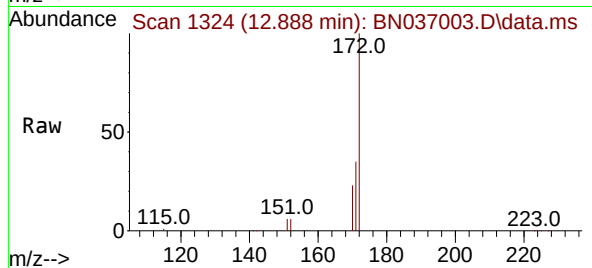




#15  
2-Fluorobiphenyl  
Concen: 1.684 ng  
RT: 12.888 min Scan# 1324  
Delta R.T. 0.000 min  
Lab File: BN037003.D  
Acq: 13 May 2025 20:05

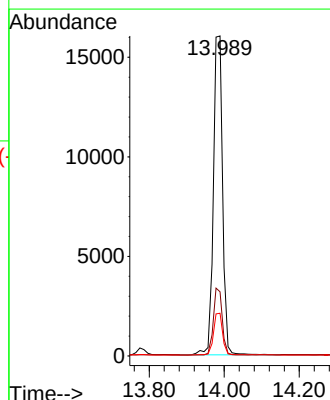
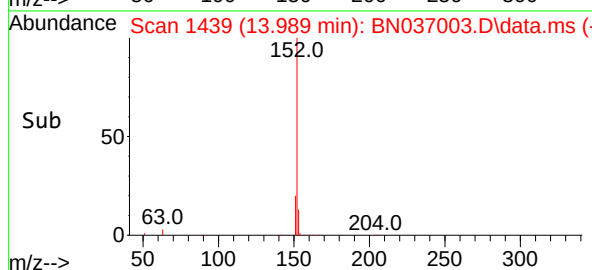
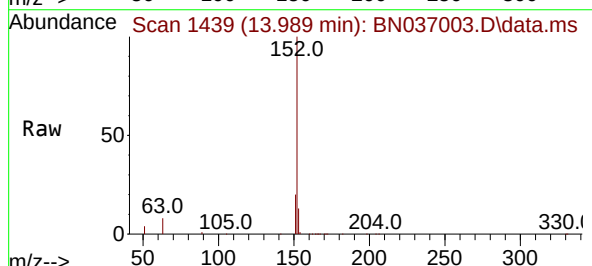
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

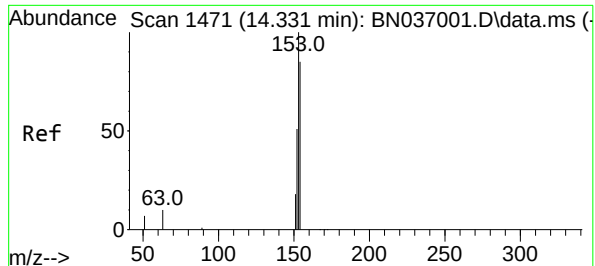
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.4  | 29.2  | 43.8  |
| 170     | 23.4  | 20.5  | 30.7  |



#16  
Acenaphthylene  
Concen: 1.702 ng  
RT: 13.989 min Scan# 1439  
Delta R.T. 0.000 min  
Lab File: BN037003.D  
Acq: 13 May 2025 20:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 20.2  | 16.1  | 24.1  |
| 153     | 12.9  | 10.5  | 15.7  |

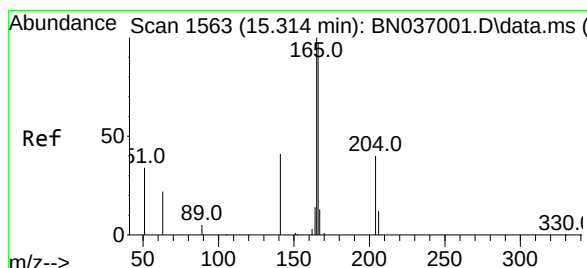
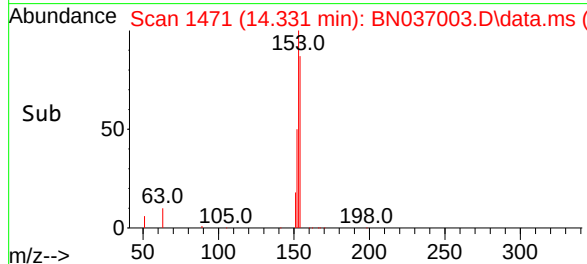
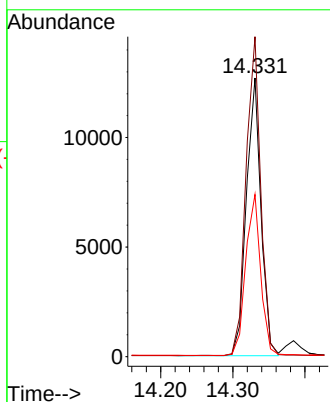
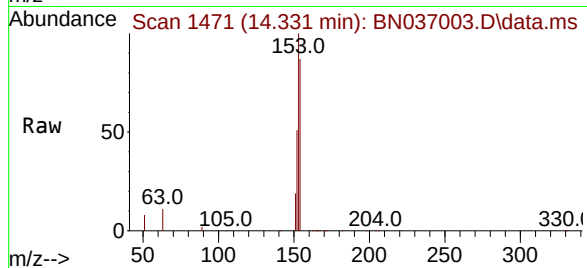




#17  
Acenaphthene  
Concen: 1.698 ng  
RT: 14.331 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: BN037003.D  
Acq: 13 May 2025 20:05

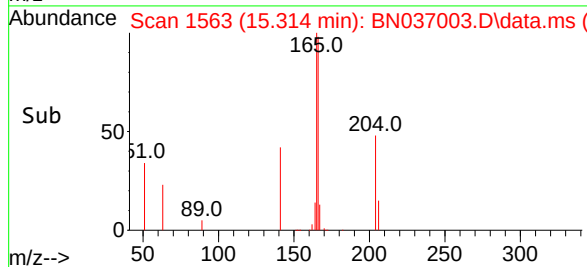
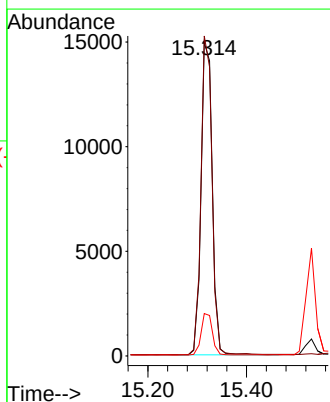
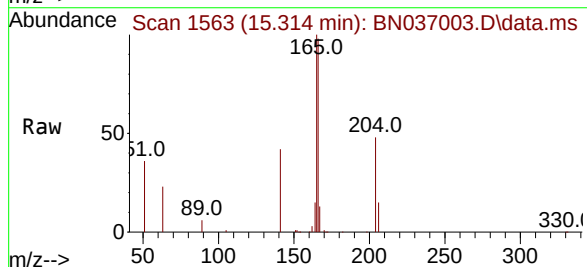
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

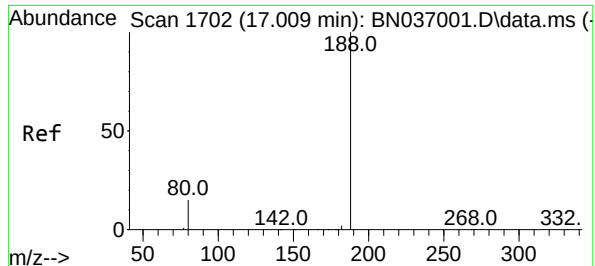
Tgt Ion:154 Resp: 17846  
Ion Ratio Lower Upper  
154 100  
153 115.9 94.2 141.4  
152 59.8 49.4 74.0



#18  
Fluorene  
Concen: 1.705 ng  
RT: 15.314 min Scan# 1563  
Delta R.T. 0.000 min  
Lab File: BN037003.D  
Acq: 13 May 2025 20:05

Tgt Ion:166 Resp: 23515  
Ion Ratio Lower Upper  
166 100  
165 100.2 80.6 120.8  
167 13.3 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.009 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037003.D

Acq: 13 May 2025 20:05

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6

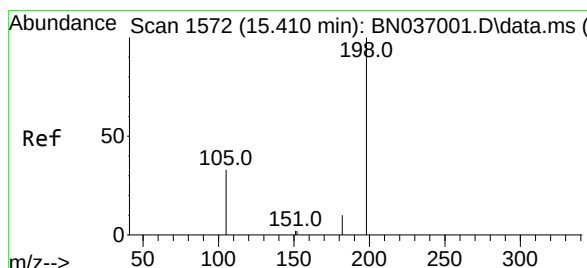
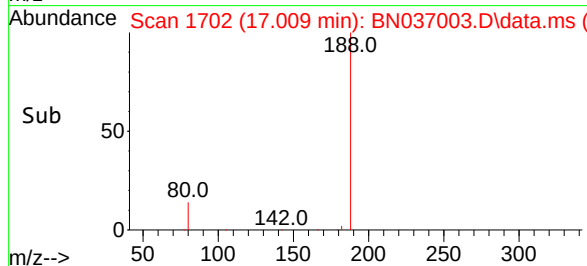
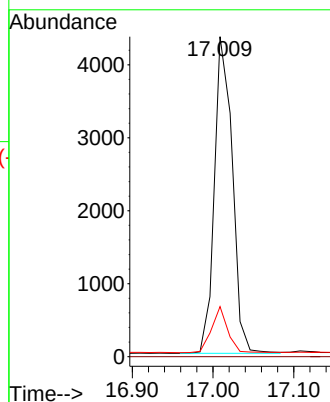
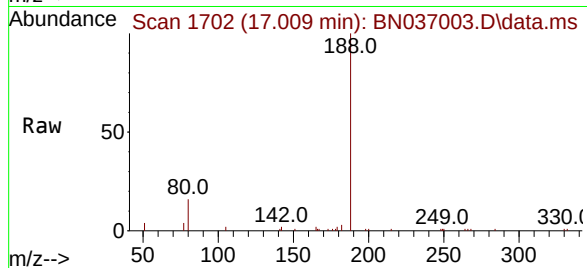
Tgt Ion:188 Resp: 6678

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 15.7 13.4 20.0



#20

4,6-Dinitro-2-methylphenol

Concen: 1.748 ng

RT: 15.400 min Scan# 1571

Delta R.T. -0.010 min

Lab File: BN037003.D

Acq: 13 May 2025 20:05

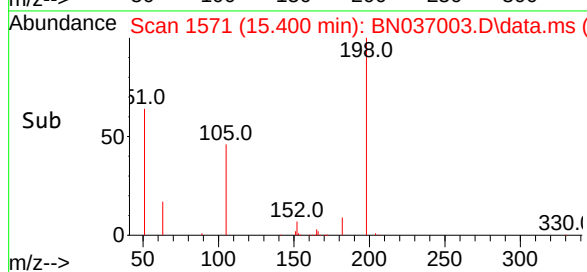
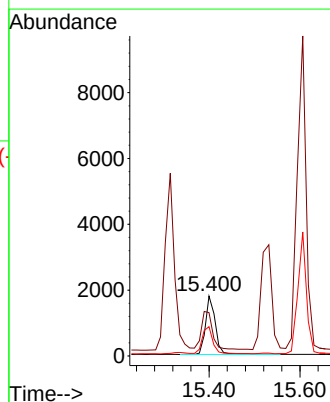
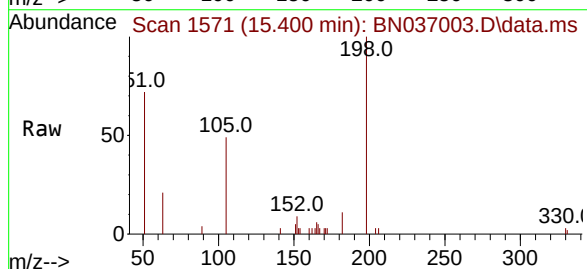
Tgt Ion:198 Resp: 2713

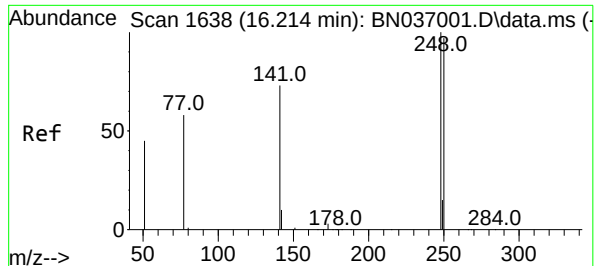
Ion Ratio Lower Upper

198 100

51 72.3 87.8 131.6#

105 48.8 44.2 66.4

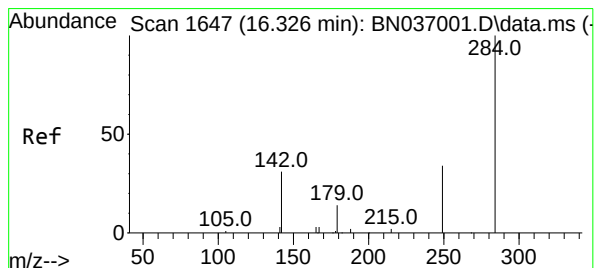
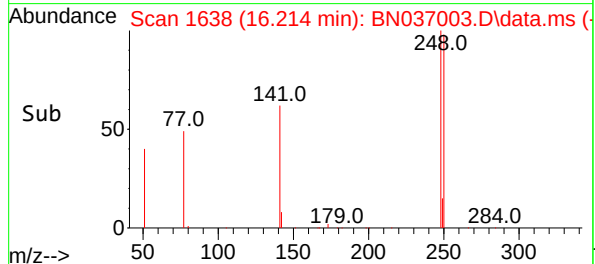
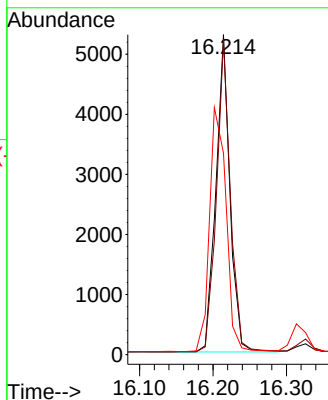
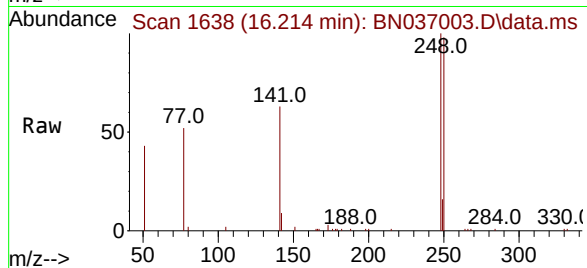




#21  
4-Bromophenyl-phenylether  
Concen: 1.661 ng  
RT: 16.214 min Scan# 1638  
Delta R.T. 0.000 min  
Lab File: BN037003.D  
Acq: 13 May 2025 20:05

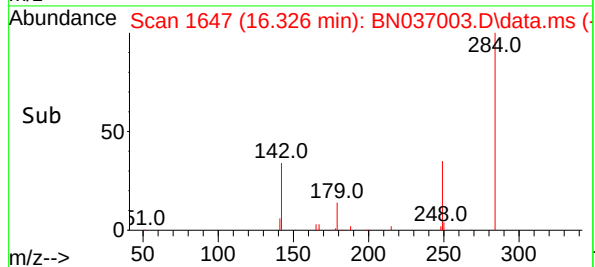
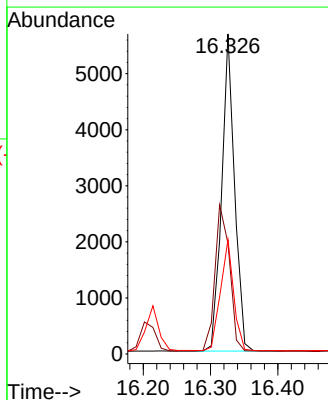
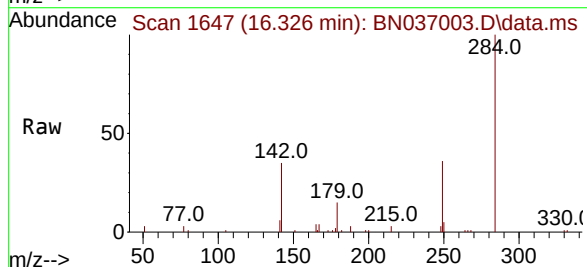
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

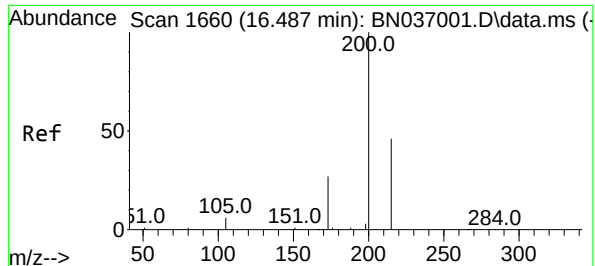
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 248     | 100   |       |       |
| 250     | 98.4  | 78.1  | 117.1 |
| 141     | 62.9  | 59.7  | 89.5  |



#22  
Hexachlorobenzene  
Concen: 1.664 ng  
RT: 16.326 min Scan# 1647  
Delta R.T. 0.000 min  
Lab File: BN037003.D  
Acq: 13 May 2025 20:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 284     | 100   |       |       |
| 142     | 52.3  | 41.2  | 61.8  |
| 249     | 35.9  | 28.7  | 43.1  |

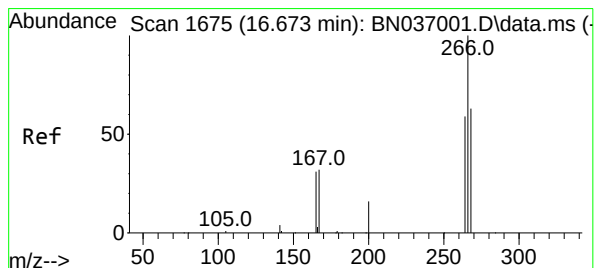
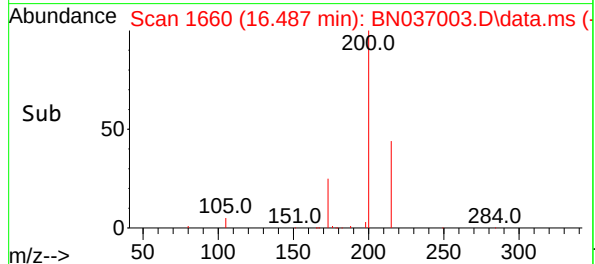
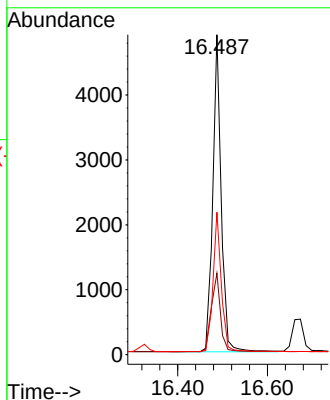
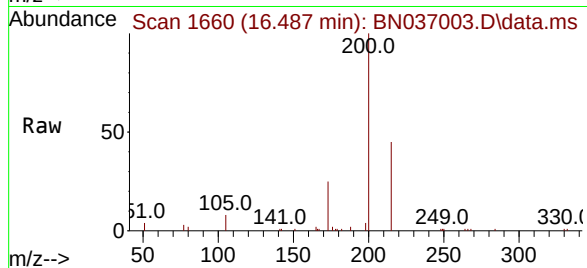




#23  
Atrazine  
Concen: 1.722 ng  
RT: 16.487 min Scan# 1660  
Delta R.T. 0.000 min  
Lab File: BN037003.D  
Acq: 13 May 2025 20:05

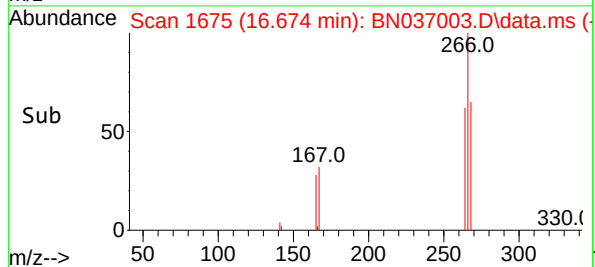
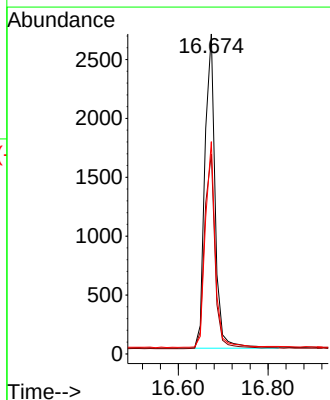
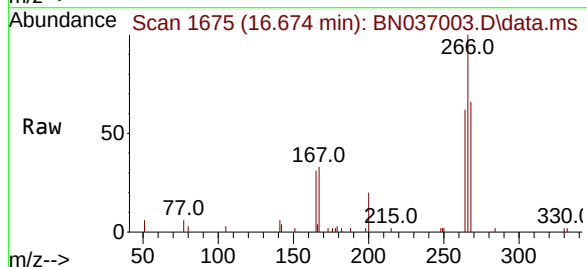
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

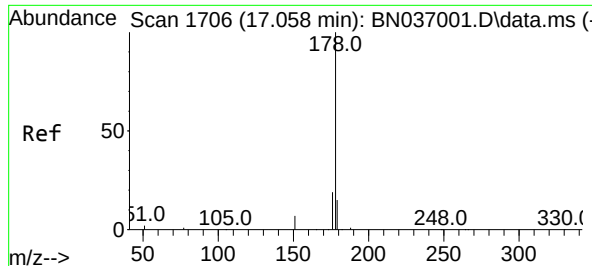
| Tgt Ion   | 200   | Resp: | 6336 |
|-----------|-------|-------|------|
| Ion Ratio | Lower | Upper |      |
| 200       | 100   |       |      |
| 173       | 25.5  | 25.2  | 37.8 |
| 215       | 44.5  | 39.3  | 58.9 |



#24  
Pentachlorophenol  
Concen: 1.697 ng  
RT: 16.674 min Scan# 1675  
Delta R.T. 0.000 min  
Lab File: BN037003.D  
Acq: 13 May 2025 20:05

| Tgt Ion   | 266   | Resp: | 4256 |
|-----------|-------|-------|------|
| Ion Ratio | Lower | Upper |      |
| 266       | 100   |       |      |
| 264       | 62.9  | 47.9  | 71.9 |
| 268       | 62.9  | 50.0  | 75.0 |

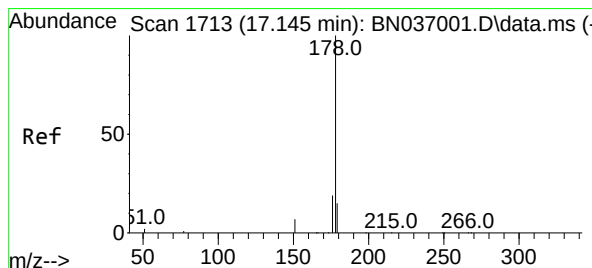
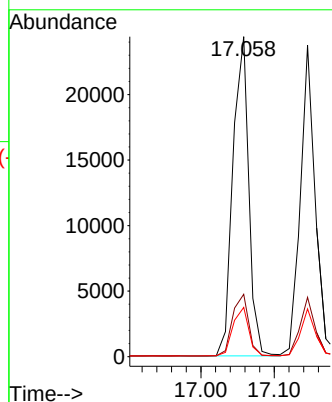
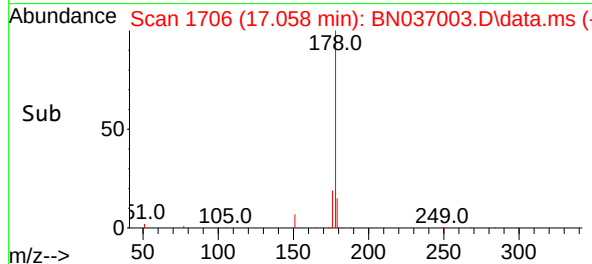
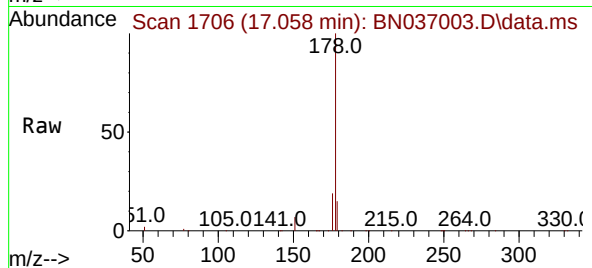




#25  
Phenanthrene  
Concen: 1.673 ng  
RT: 17.058 min Scan# 1706  
Delta R.T. 0.000 min  
Lab File: BN037003.D  
Acq: 13 May 2025 20:05

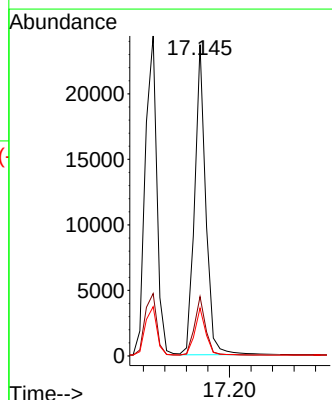
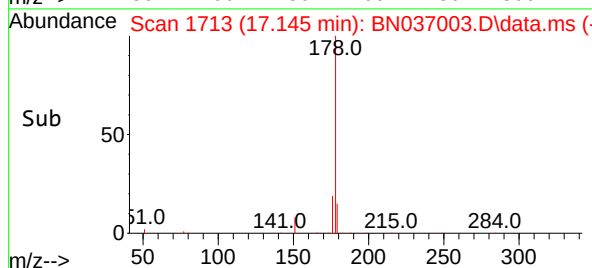
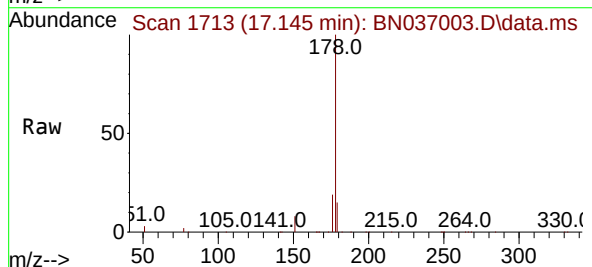
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

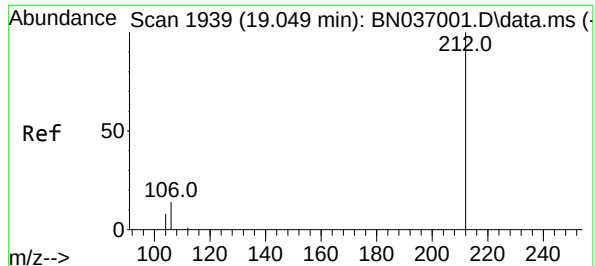
Tgt Ion:178 Resp: 36506  
Ion Ratio Lower Upper  
178 100  
176 19.8 15.7 23.5  
179 15.3 12.2 18.2



#26  
Anthracene  
Concen: 1.707 ng  
RT: 17.145 min Scan# 1713  
Delta R.T. 0.000 min  
Lab File: BN037003.D  
Acq: 13 May 2025 20:05

Tgt Ion:178 Resp: 33908  
Ion Ratio Lower Upper  
178 100  
176 19.0 15.0 22.6  
179 15.1 12.3 18.5





#27

Fluoranthene-d10

Concen: 1.682 ng

RT: 19.054 min Scan# 1940

Delta R.T. 0.005 min

Lab File: BN037003.D

Acq: 13 May 2025 20:05

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6

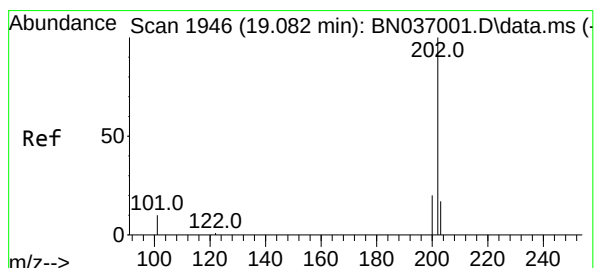
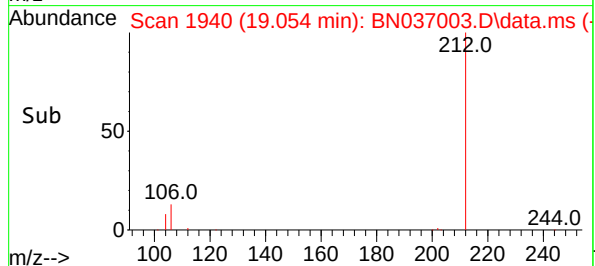
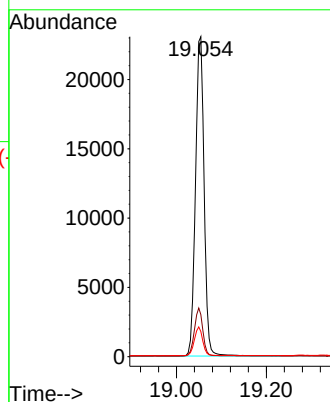
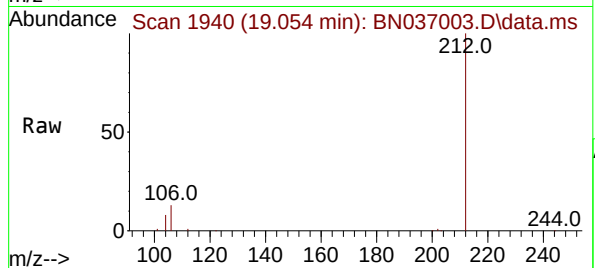
Tgt Ion:212 Resp: 30804

Ion Ratio Lower Upper

212 100

106 14.5 11.3 16.9

104 8.6 6.7 10.1



#28

Fluoranthene

Concen: 1.711 ng

RT: 19.082 min Scan# 1946

Delta R.T. 0.000 min

Lab File: BN037003.D

Acq: 13 May 2025 20:05

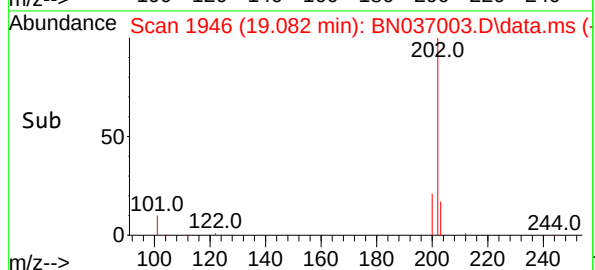
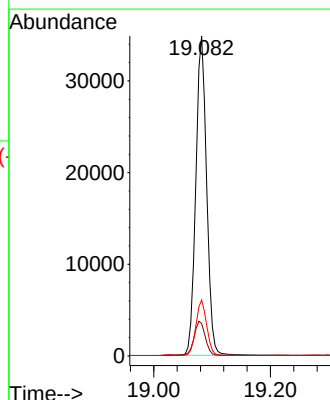
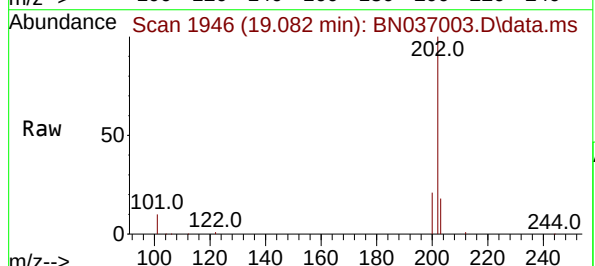
Tgt Ion:202 Resp: 44613

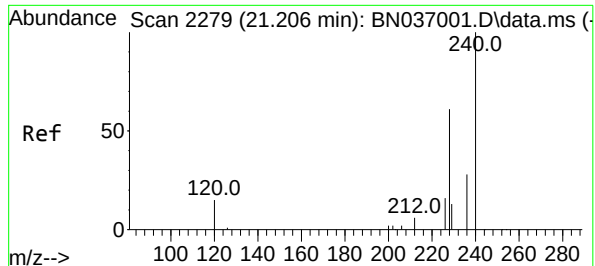
Ion Ratio Lower Upper

202 100

101 11.3 8.9 13.3

203 17.1 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.207 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037003.D

Acq: 13 May 2025 20:05

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6

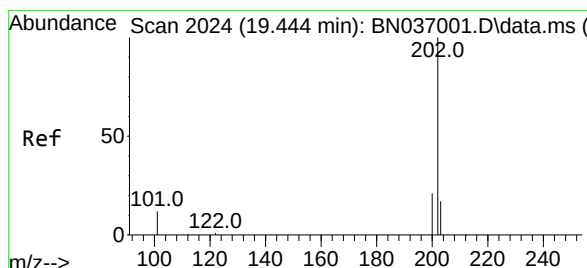
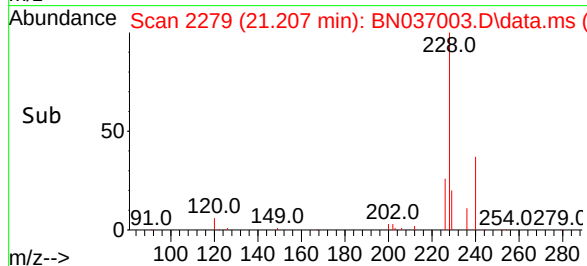
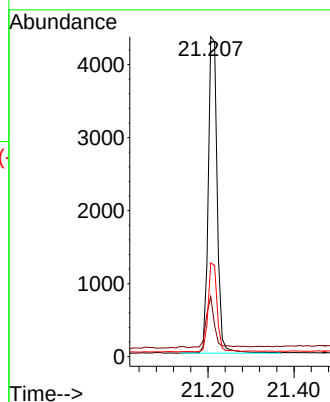
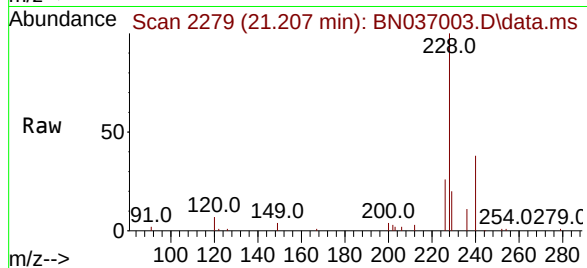
Tgt Ion:240 Resp: 6288

Ion Ratio Lower Upper

240 100

120 18.7 15.1 22.7

236 29.3 24.0 36.0



#30

Pyrene

Concen: 1.674 ng

RT: 19.444 min Scan# 2024

Delta R.T. 0.000 min

Lab File: BN037003.D

Acq: 13 May 2025 20:05

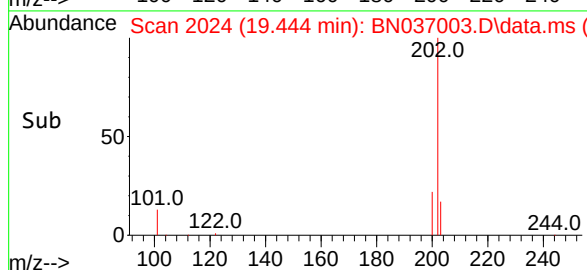
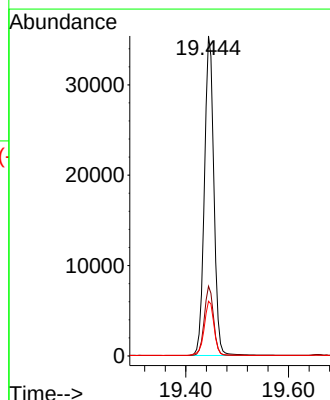
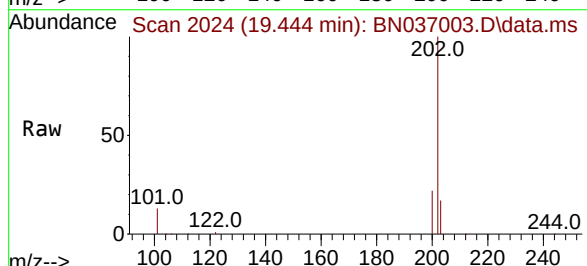
Tgt Ion:202 Resp: 45015

Ion Ratio Lower Upper

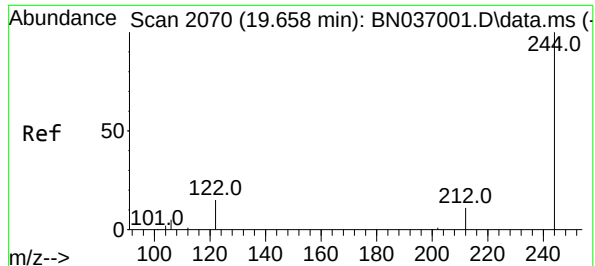
202 100

200 21.5 17.1 25.7

203 17.7 14.2 21.4



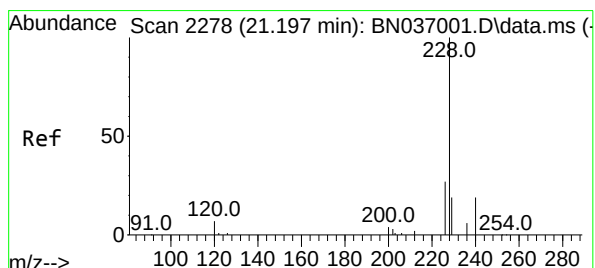
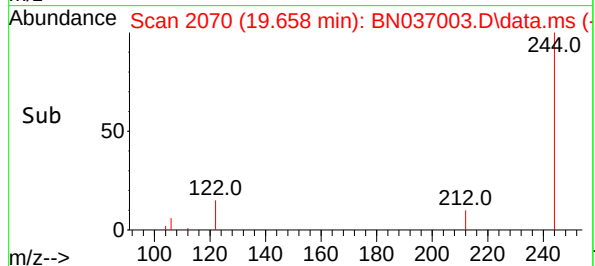
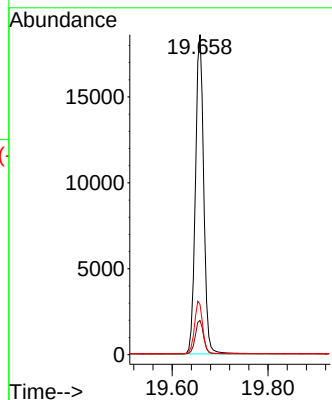
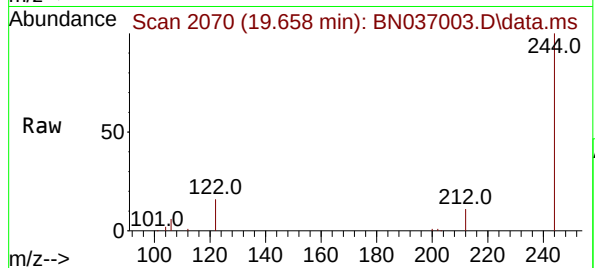




#31  
Terphenyl-d14  
Concen: 1.667 ng  
RT: 19.658 min Scan# 2070  
Delta R.T. 0.000 min  
Lab File: BN037003.D  
Acq: 13 May 2025 20:05

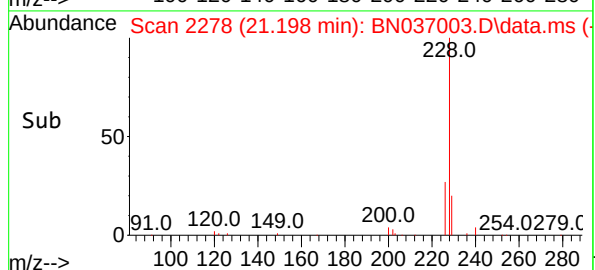
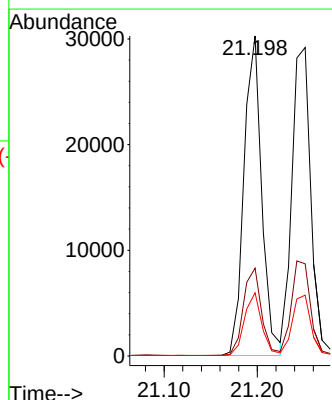
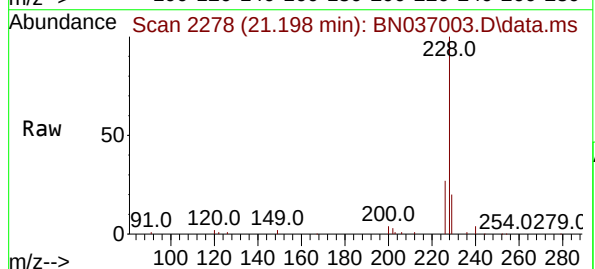
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

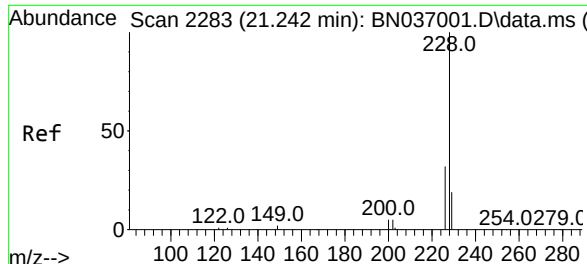
Tgt Ion:244 Resp: 22417  
Ion Ratio Lower Upper  
244 100  
212 10.7 9.7 14.5  
122 15.7 13.4 20.0



#32  
Benzo(a)anthracene  
Concen: 1.694 ng  
RT: 21.198 min Scan# 2278  
Delta R.T. 0.000 min  
Lab File: BN037003.D  
Acq: 13 May 2025 20:05

Tgt Ion:228 Resp: 40103  
Ion Ratio Lower Upper  
228 100  
226 27.4 22.2 33.4  
229 19.8 16.0 24.0





#33

Chrysene

Concen: 1.660 ng

RT: 21.251 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN037003.D

Acq: 13 May 2025 20:05

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6

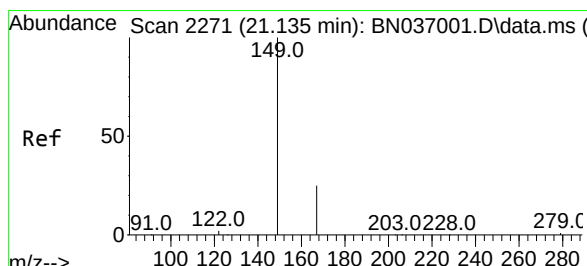
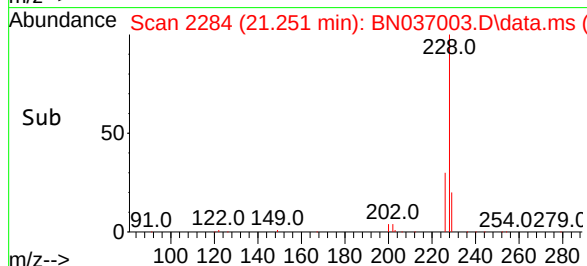
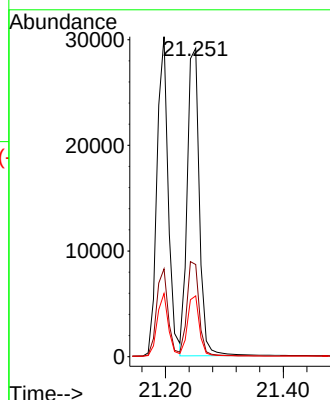
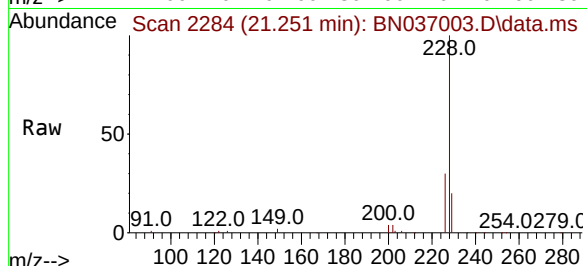
Tgt Ion:228 Resp: 41576

Ion Ratio Lower Upper

228 100

226 29.9 26.3 39.5

229 19.7 16.2 24.2



#34

Bis(2-ethylhexyl)phthalate

Concen: 1.621 ng

RT: 21.135 min Scan# 2271

Delta R.T. 0.000 min

Lab File: BN037003.D

Acq: 13 May 2025 20:05

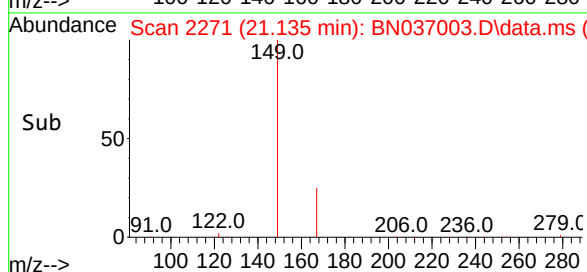
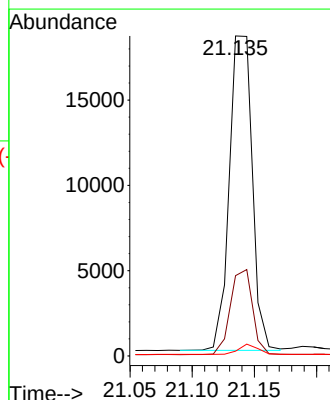
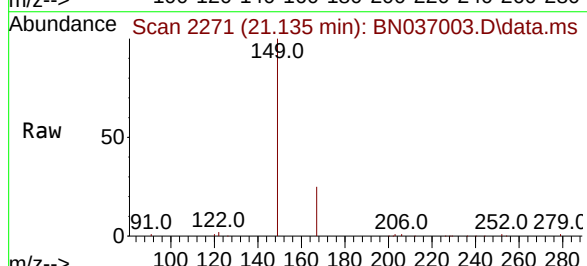
Tgt Ion:149 Resp: 23656

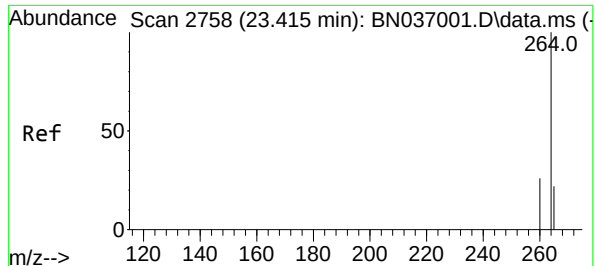
Ion Ratio Lower Upper

149 100

167 26.2 20.6 30.8

279 2.7 2.6 3.8





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.418 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN037003.D

Acq: 13 May 2025 20:05

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6

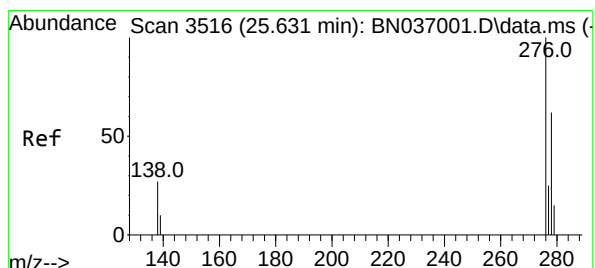
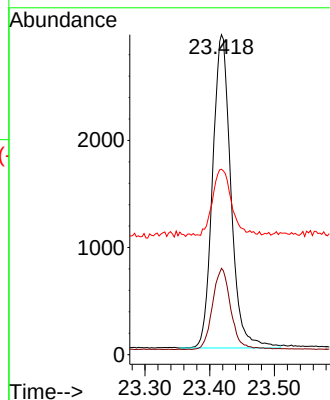
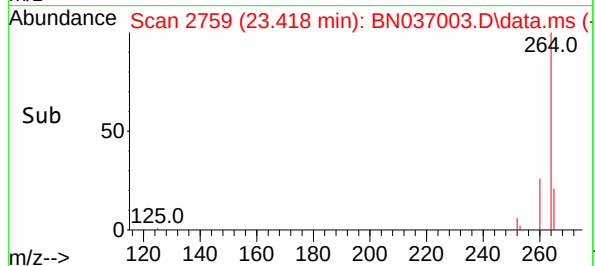
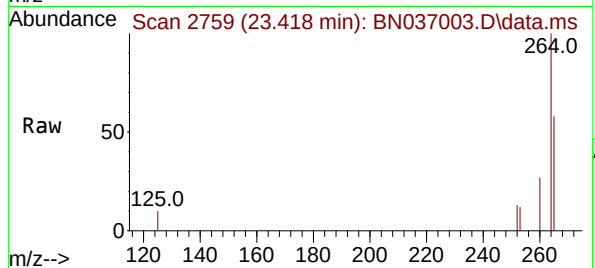
Tgt Ion:264 Resp: 5747

Ion Ratio Lower Upper

264 100

260 27.0 21.9 32.9

265 58.0 51.6 77.4



#36

Indeno(1,2,3-cd)pyrene

Concen: 1.652 ng

RT: 25.631 min Scan# 3516

Delta R.T. 0.000 min

Lab File: BN037003.D

Acq: 13 May 2025 20:05

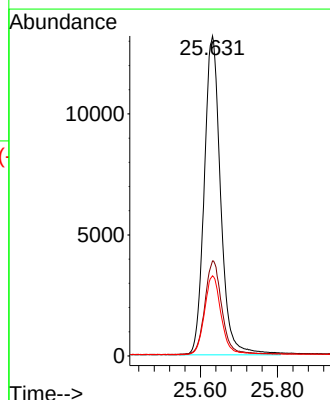
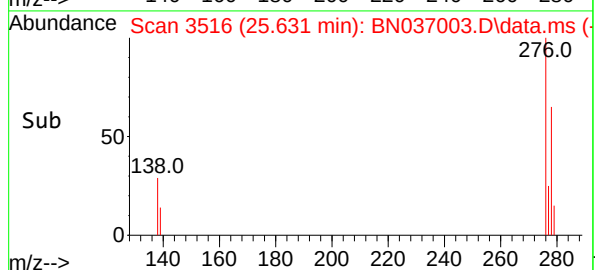
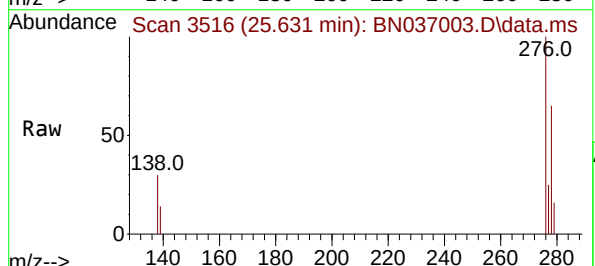
Tgt Ion:276 Resp: 38771

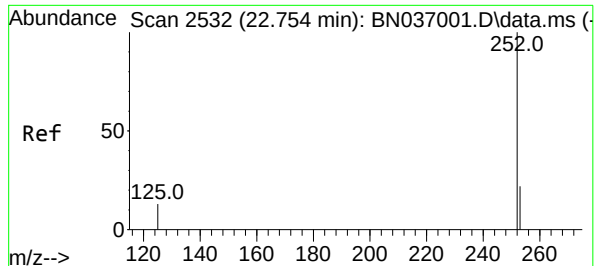
Ion Ratio Lower Upper

276 100

138 30.4 22.7 34.1

277 24.9 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 1.688 ng

RT: 22.757 min Scan# 2533

Delta R.T. 0.003 min

Lab File: BN037003.D

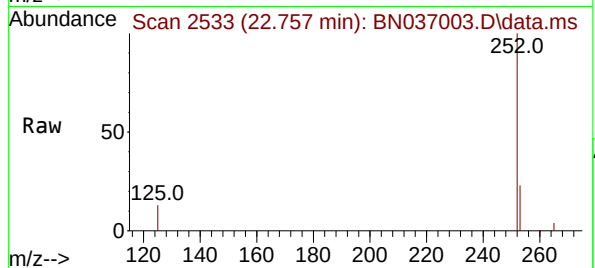
Acq: 13 May 2025 20:05

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6



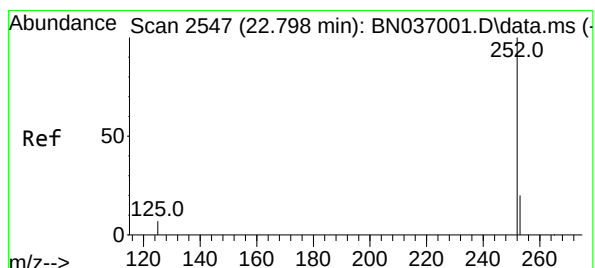
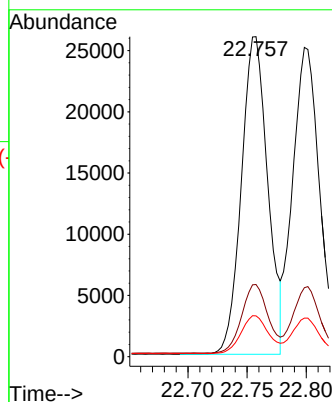
Tgt Ion:252 Resp: 40209

Ion Ratio Lower Upper

252 100

253 22.5 21.8 32.6

125 12.8 14.6 21.8#



#38

Benzo(k)fluoranthene

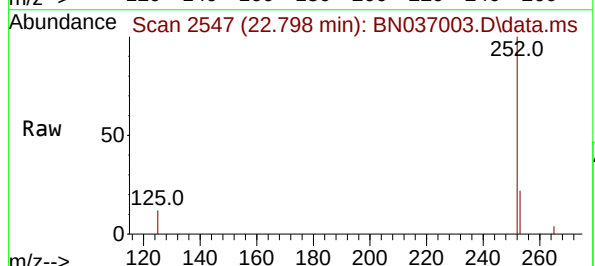
Concen: 1.729 ng

RT: 22.798 min Scan# 2547

Delta R.T. 0.000 min

Lab File: BN037003.D

Acq: 13 May 2025 20:05



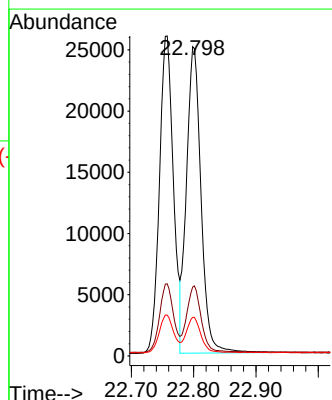
Tgt Ion:252 Resp: 40699

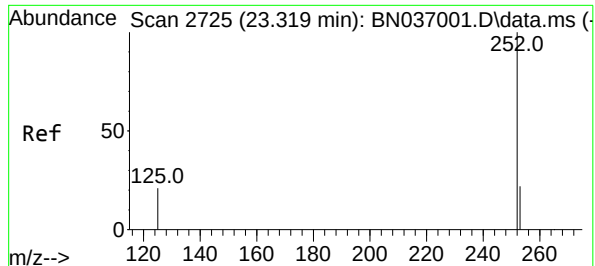
Ion Ratio Lower Upper

252 100

253 22.3 21.4 32.2

125 12.4 13.0 19.4#





#39

Benzo(a)pyrene

Concen: 1.689 ng

RT: 23.322 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN037003.D

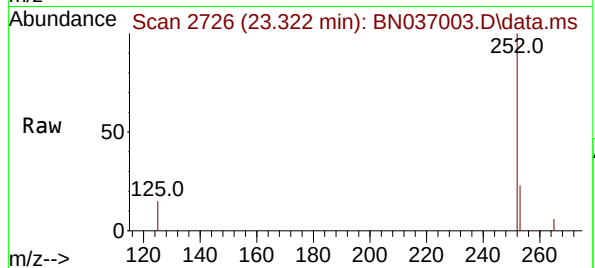
Acq: 13 May 2025 20:05

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6



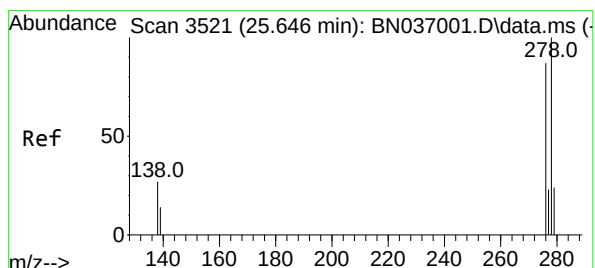
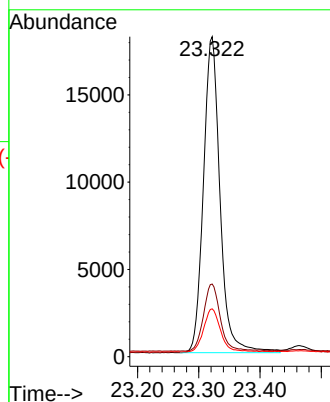
Tgt Ion:252 Resp: 34149

Ion Ratio Lower Upper

252 100

253 22.7 23.8 35.6#

125 15.0 21.8 32.6#



#40

Dibenzo(a,h)anthracene

Concen: 1.685 ng

RT: 25.643 min Scan# 3520

Delta R.T. -0.003 min

Lab File: BN037003.D

Acq: 13 May 2025 20:05

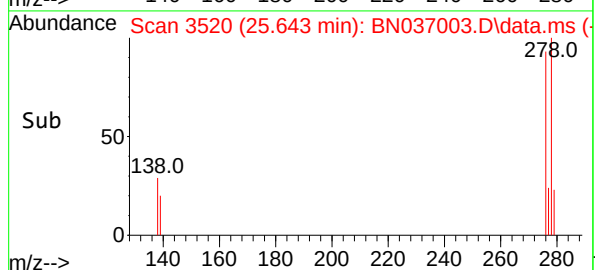
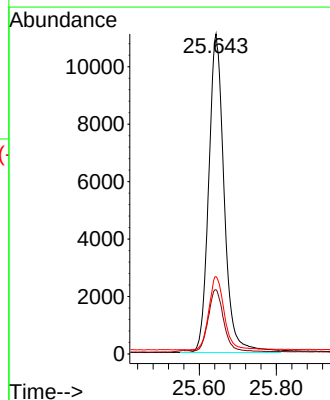
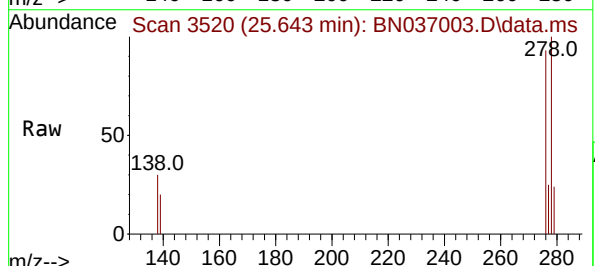
Tgt Ion:278 Resp: 30810

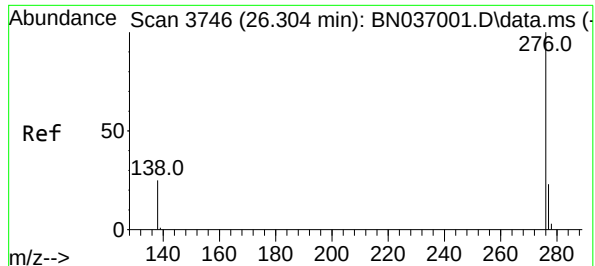
Ion Ratio Lower Upper

278 100

139 20.1 17.4 26.0

279 24.1 24.6 37.0#





#41

Benzo(g,h,i)perylene

Concen: 1.624 ng

RT: 26.307 min Scan# 31

Delta R.T. 0.003 min

Lab File: BN037003.D

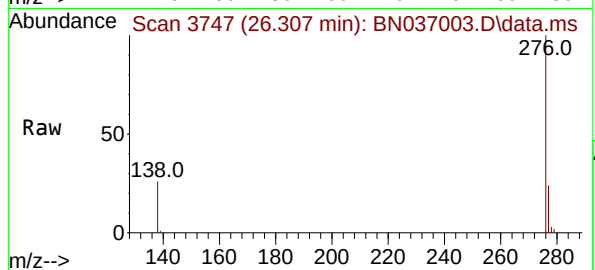
Acq: 13 May 2025 20:05

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6



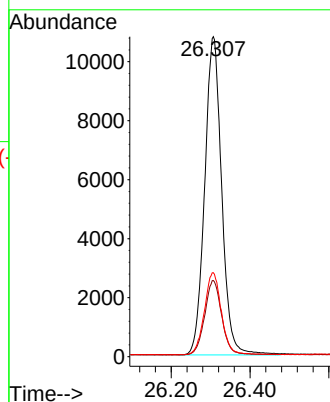
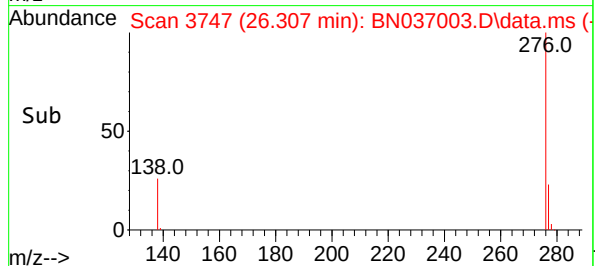
Tgt Ion:276 Resp: 32256

Ion Ratio Lower Upper

276 100

277 23.8 20.2 30.4

138 26.2 22.0 33.0



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN051425\  
 Data File : BN037004.D  
 Acq On : 13 May 2025 20:41  
 Operator : RC/JU  
 Sample : SSTDICC3.2  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC3.2

Quant Time: May 14 11:01:52 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN051425.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 14 10:57:36 2025  
 Response via : Initial Calibration

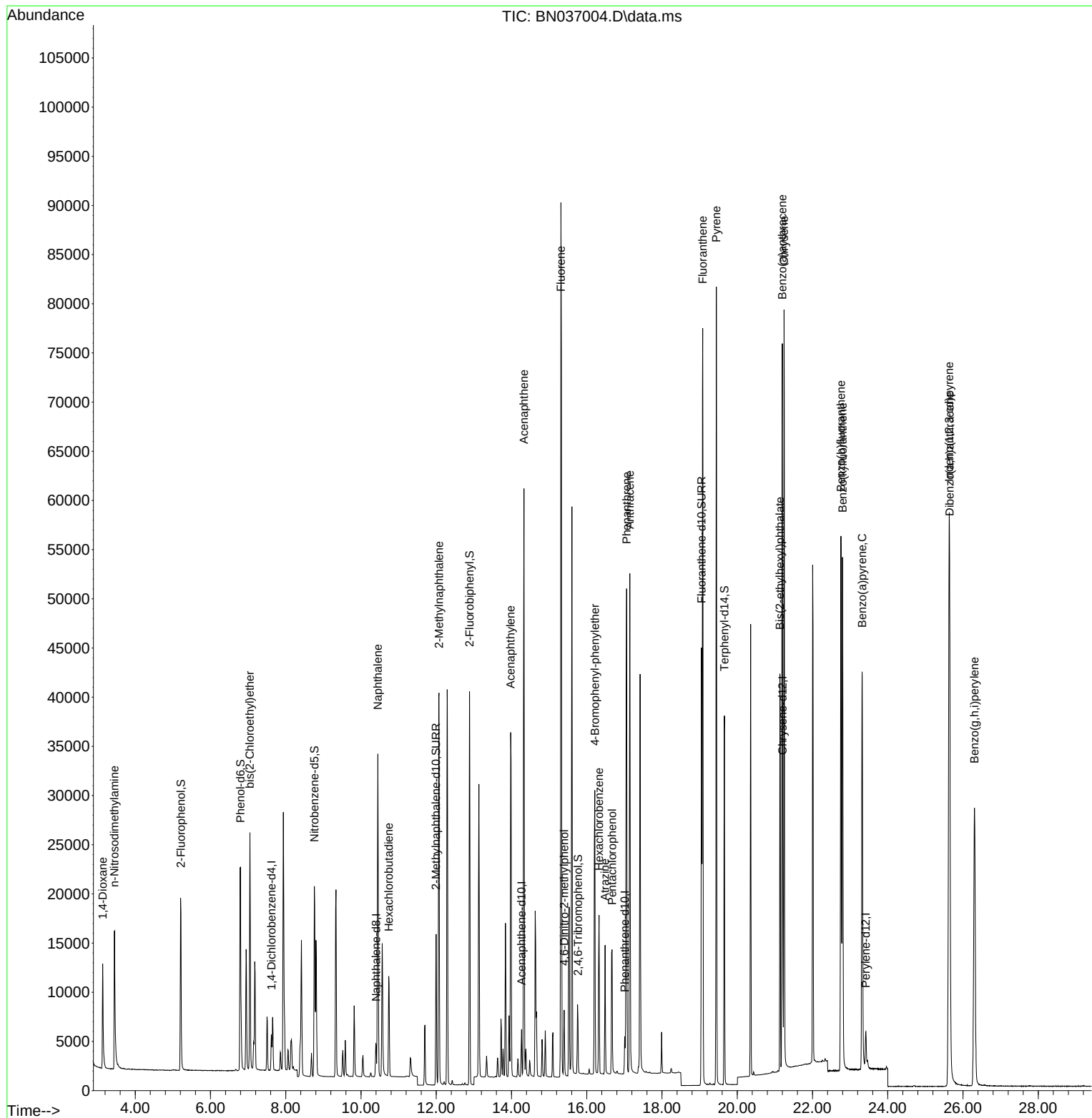
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.618  | 152  | 1639     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.404 | 136  | 4315     | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 14.267 | 164  | 2482     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 17.009 | 188  | 4870     | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 21.207 | 240  | 5021     | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.415 | 264  | 4705     | 0.400 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.213  | 112  | 12639    | 2.943 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.795  | 99   | 16506    | 3.072 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.760  | 82   | 14709    | 3.131 | ng    | -0.01    |
| 11) 2-Methylnaphthalene-d10   | 11.996 | 152  | 19801    | 3.260 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.767 | 330  | 3482     | 3.194 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.883 | 172  | 33203    | 2.921 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 19.049 | 212  | 45238    | 3.388 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.658 | 244  | 32768    | 3.051 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| Target Compounds              |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.133  | 88   | 6127     | 3.046 | ng    | 98       |
| 3) n-Nitrosodimethylamine     | 3.444  | 42   | 12673    | 2.933 | ng    | # 94     |
| 6) bis(2-Chloroethyl)ether    | 7.048  | 93   | 15315    | 3.097 | ng    | 99       |
| 9) Naphthalene                | 10.447 | 128  | 39782    | 3.120 | ng    | 96       |
| 10) Hexachlorobutadiene       | 10.735 | 225  | 8153     | 3.046 | ng    | # 100    |
| 12) 2-Methylnaphthalene       | 12.072 | 142  | 26589    | 3.242 | ng    | 97       |
| 16) Acenaphthylene            | 13.978 | 152  | 39649    | 3.282 | ng    | 100      |
| 17) Acenaphthene              | 14.331 | 154  | 25773    | 3.265 | ng    | 98       |
| 18) Fluorene                  | 15.314 | 166  | 34177    | 3.300 | ng    | 99       |
| 20) 4,6-Dinitro-2-methylph... | 15.400 | 198  | 4002     | 3.111 | ng    | # 70     |
| 21) 4-Bromophenyl-phenylether | 16.214 | 248  | 10166    | 3.305 | ng    | 92       |
| 22) Hexachlorobenzene         | 16.326 | 284  | 10501    | 3.189 | ng    | 98       |
| 23) Atrazine                  | 16.487 | 200  | 9103     | 3.393 | ng    | # 90     |
| 24) Pentachlorophenol         | 16.674 | 266  | 6329     | 3.460 | ng    | 98       |
| 25) Phenanthrene              | 17.058 | 178  | 52084    | 3.272 | ng    | 100      |
| 26) Anthracene                | 17.145 | 178  | 49070    | 3.388 | ng    | 100      |
| 28) Fluoranthene              | 19.082 | 202  | 65127    | 3.426 | ng    | 99       |
| 30) Pyrene                    | 19.444 | 202  | 65923    | 3.069 | ng    | 100      |
| 32) Benzo(a)anthracene        | 21.198 | 228  | 61105    | 3.232 | ng    | 99       |
| 33) Chrysene                  | 21.242 | 228  | 62672    | 3.134 | ng    | 98       |
| 34) Bis(2-ethylhexyl)phtha... | 21.135 | 149  | 36266    | 3.113 | ng    | 99       |
| 36) Indeno(1,2,3-cd)pyrene    | 25.631 | 276  | 65193    | 3.393 | ng    | 98       |
| 37) Benzo(b)fluoranthene      | 22.755 | 252  | 63928    | 3.277 | ng    | # 89     |
| 38) Benzo(k)fluoranthene      | 22.798 | 252  | 62537    | 3.245 | ng    | # 91     |
| 39) Benzo(a)pyrene            | 23.319 | 252  | 54366    | 3.284 | ng    | # 81     |
| 40) Dibenzo(a,h)anthracene    | 25.643 | 278  | 51783    | 3.460 | ng    | # 91     |
| 41) Benzo(g,h,i)perylene      | 26.304 | 276  | 54177    | 3.331 | ng    | 97       |
| -----                         |        |      |          |       |       |          |

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

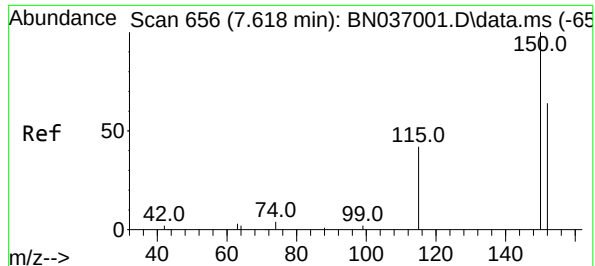
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN051425\  
Data File : BN037004.D  
Acq On : 13 May 2025 20:41  
Operator : RC/JU  
Sample : SSTDICC3.2  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

Quant Time: May 14 11:01:52 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN051425.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed May 14 10:57:36 2025  
Response via : Initial Calibration

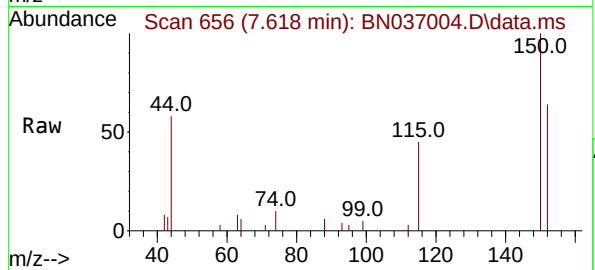




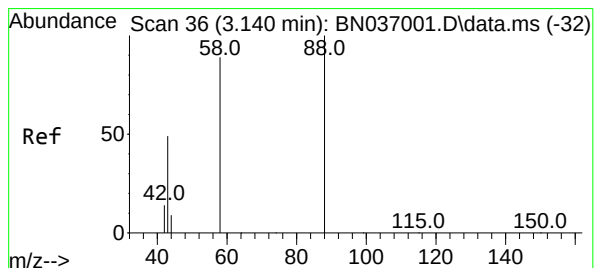
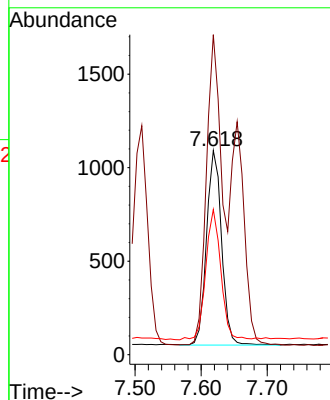
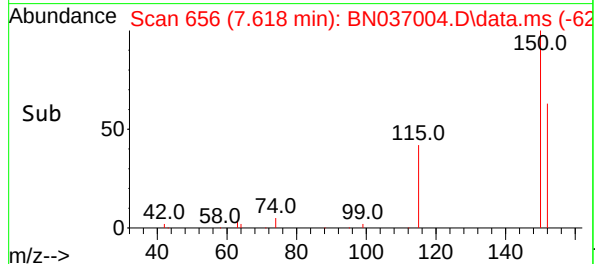


#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.618 min Scan# 61  
Delta R.T. 0.000 min  
Lab File: BN037004.D  
Acq: 13 May 2025 20:41

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

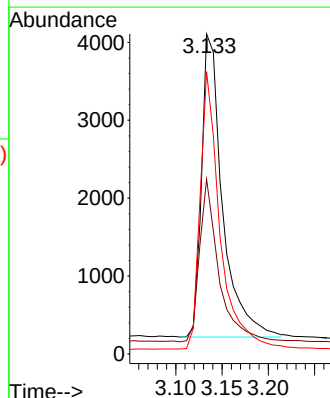
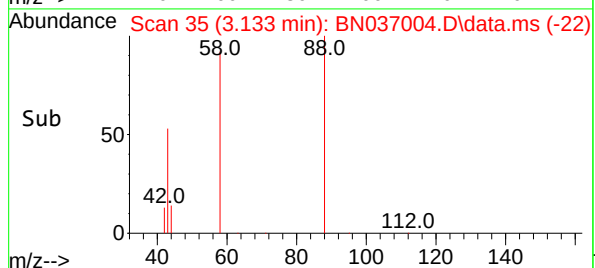
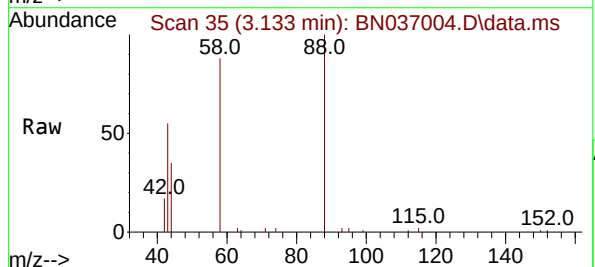


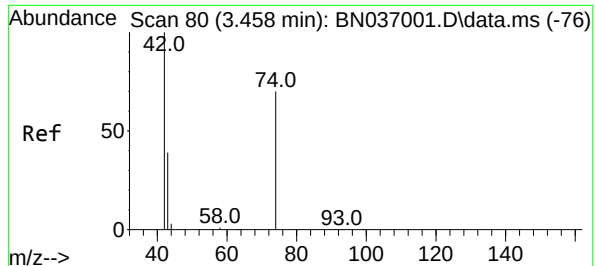
Tgt Ion:152 Resp: 1639  
Ion Ratio Lower Upper  
152 100  
150 156.7 123.9 185.9  
115 71.1 55.8 83.8



#2  
1,4-Dioxane  
Concen: 3.046 ng  
RT: 3.133 min Scan# 35  
Delta R.T. -0.007 min  
Lab File: BN037004.D  
Acq: 13 May 2025 20:41

Tgt Ion: 88 Resp: 6127  
Ion Ratio Lower Upper  
88 100  
43 49.5 37.4 56.0  
58 86.7 68.8 103.2

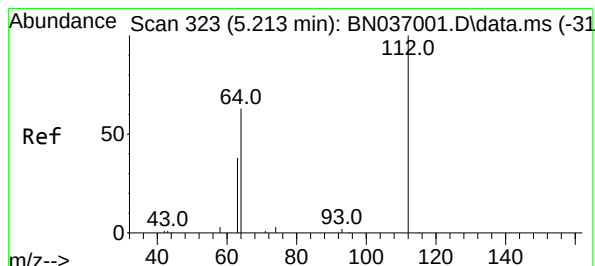
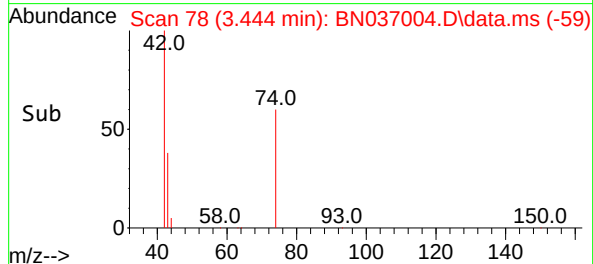
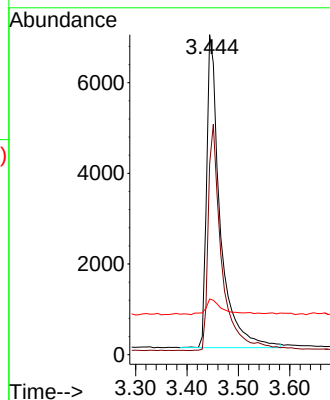
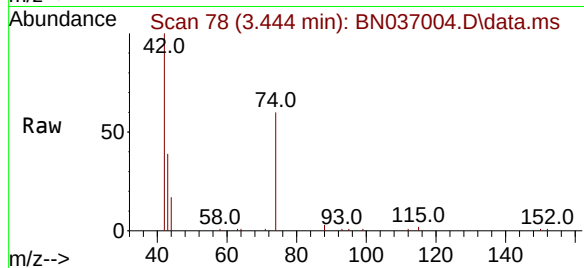




#3  
n-Nitrosodimethylamine  
Concen: 2.933 ng  
RT: 3.444 min Scan# 71  
Delta R.T. -0.014 min  
Lab File: BN037004.D  
Acq: 13 May 2025 20:41

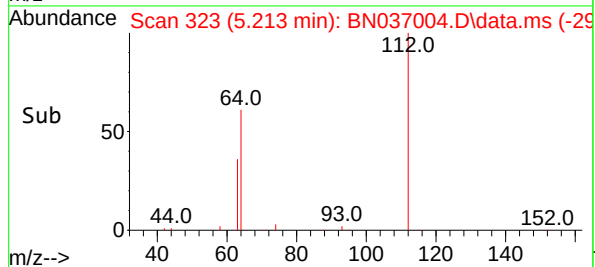
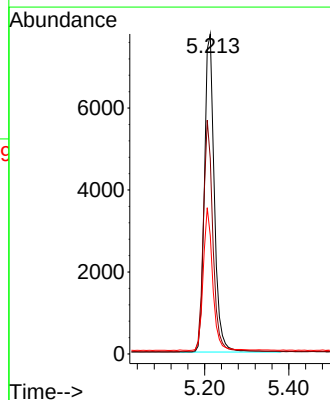
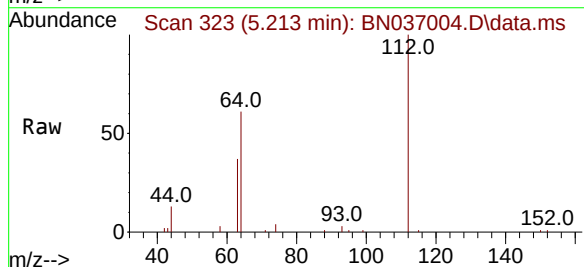
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

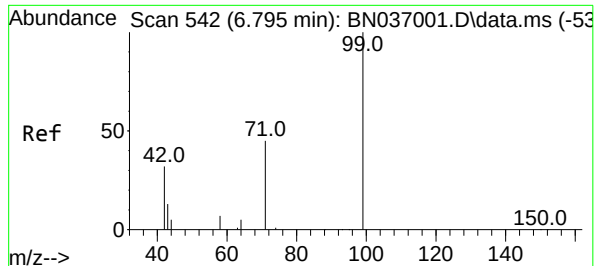
Tgt Ion: 42 Resp: 12673  
Ion Ratio Lower Upper  
42 100  
74 71.8 59.8 89.6  
44 6.5 11.9 17.9#



#4  
2-Fluorophenol  
Concen: 2.943 ng  
RT: 5.213 min Scan# 323  
Delta R.T. 0.000 min  
Lab File: BN037004.D  
Acq: 13 May 2025 20:41

Tgt Ion: 112 Resp: 12639  
Ion Ratio Lower Upper  
112 100  
64 70.2 55.7 83.5  
63 42.6 34.6 51.8

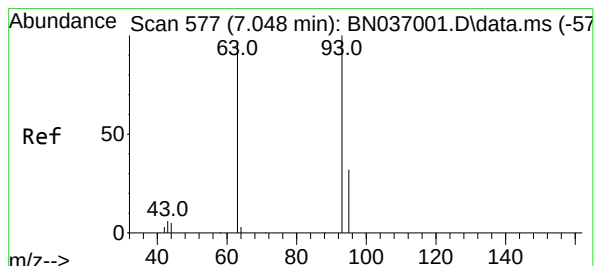
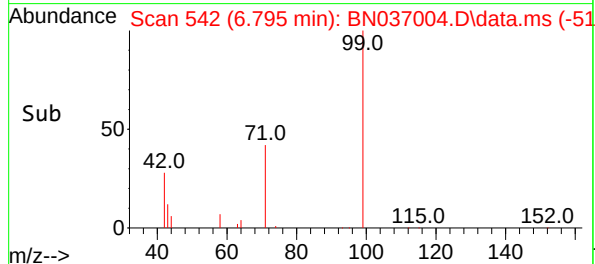
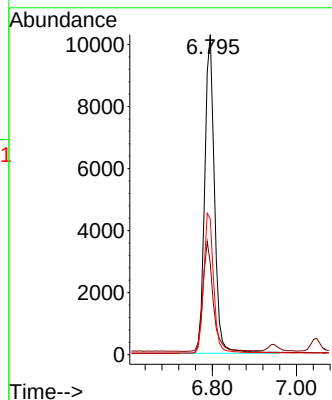
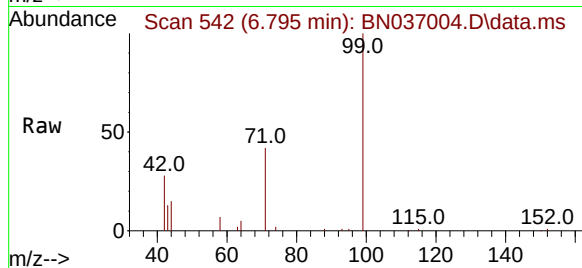




#5  
Phenol-d6  
Concen: 3.072 ng  
RT: 6.795 min Scan# 542  
Delta R.T. 0.000 min  
Lab File: BN037004.D  
Acq: 13 May 2025 20:41

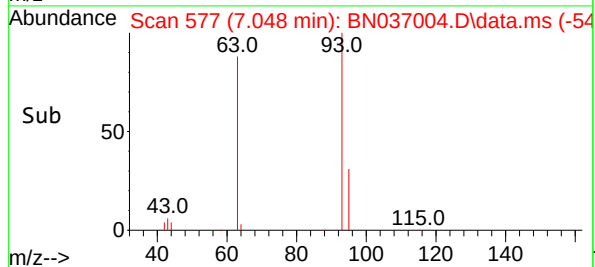
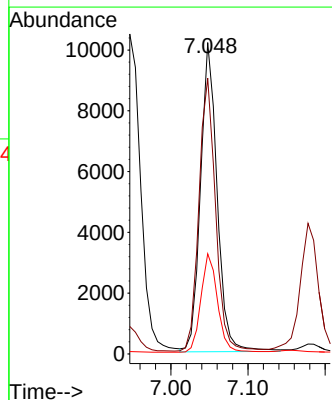
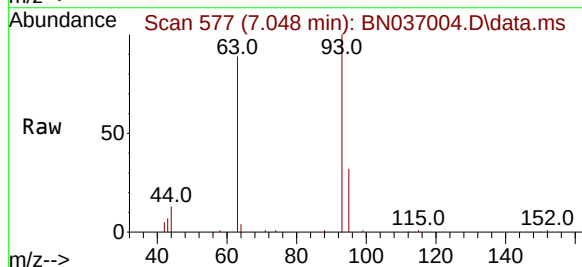
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

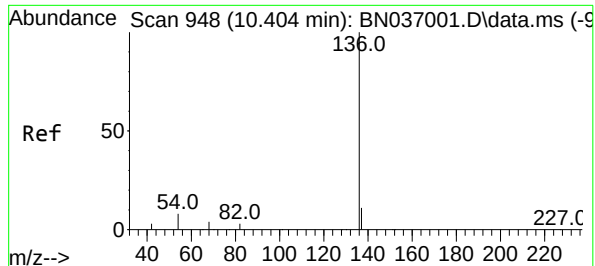
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 99      | 100   |       |       |
| 42      | 36.1  | 29.3  | 43.9  |
| 71      | 45.3  | 35.7  | 53.5  |



#6  
bis(2-Chloroethyl)ether  
Concen: 3.097 ng  
RT: 7.048 min Scan# 577  
Delta R.T. 0.000 min  
Lab File: BN037004.D  
Acq: 13 May 2025 20:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 93      | 100   |       |       |
| 63      | 87.8  | 70.1  | 105.1 |
| 95      | 31.8  | 26.2  | 39.2  |

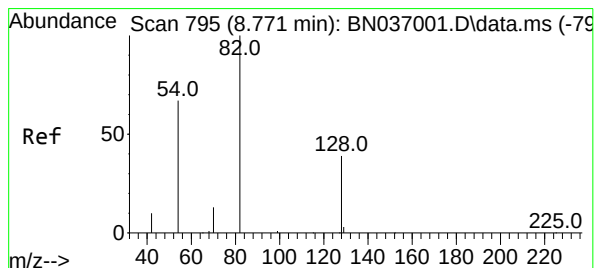
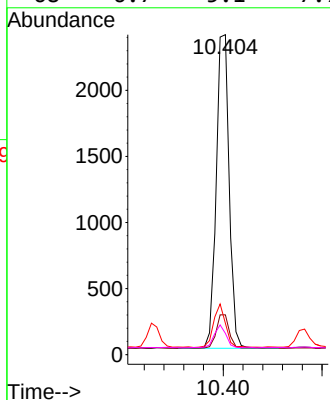
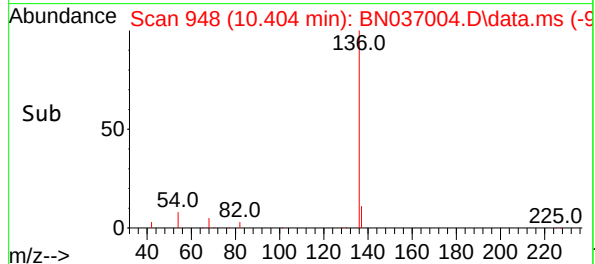
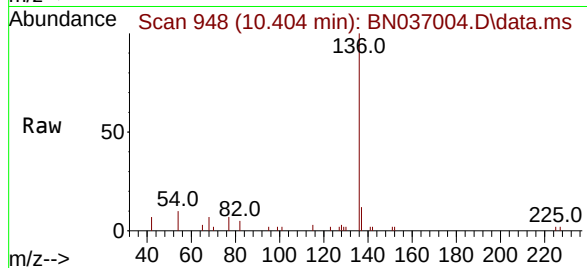




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.404 min Scan# 948  
Delta R.T. 0.000 min  
Lab File: BN037004.D  
Acq: 13 May 2025 20:41

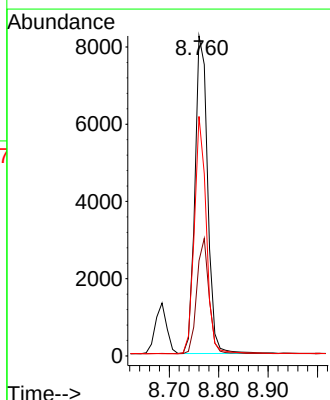
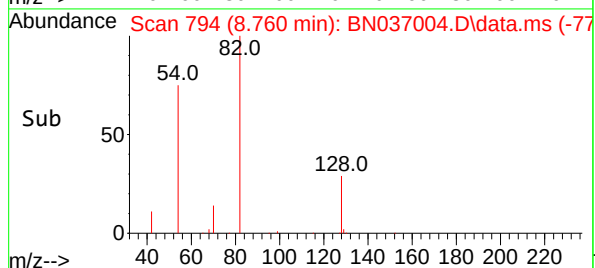
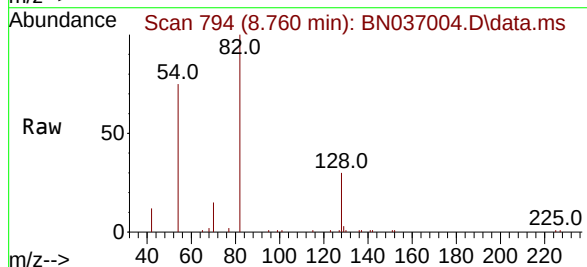
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

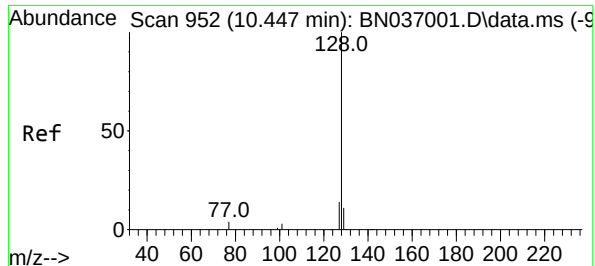
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 4315  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 12.4  | 10.4  | 15.6  |
| 54       | 9.8   | 8.5   | 12.7  |
| 68       | 6.7   | 5.1   | 7.7   |



#8  
Nitrobenzene-d5  
Concen: 3.131 ng  
RT: 8.760 min Scan# 794  
Delta R.T. -0.011 min  
Lab File: BN037004.D  
Acq: 13 May 2025 20:41

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 14709 |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 29.7  | 34.0  | 51.0# |
| 54       | 74.8  | 55.0  | 82.4  |

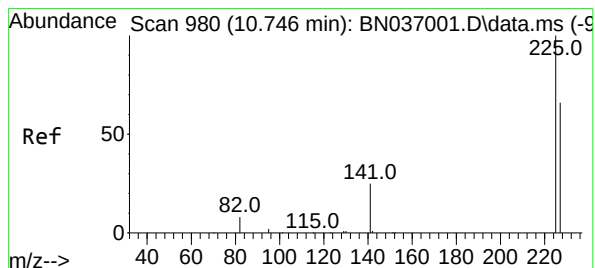
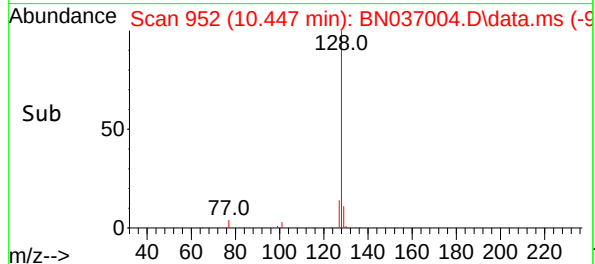
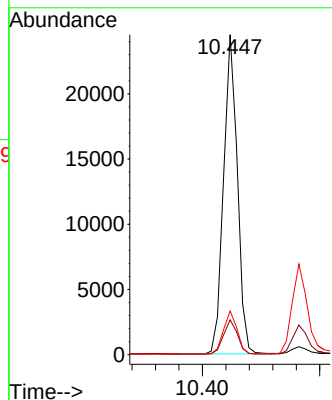
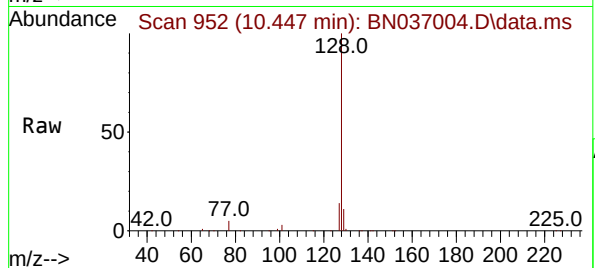




#9  
Naphthalene  
Concen: 3.120 ng  
RT: 10.447 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: BN037004.D  
Acq: 13 May 2025 20:41

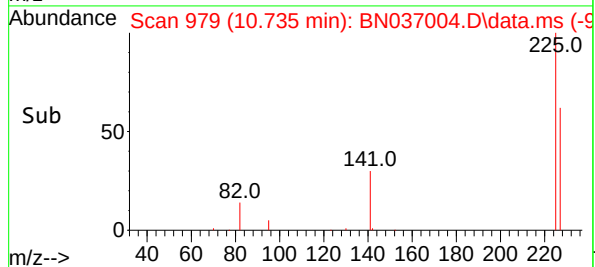
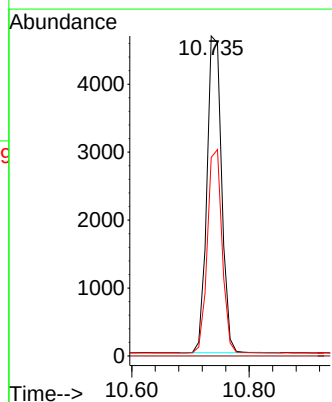
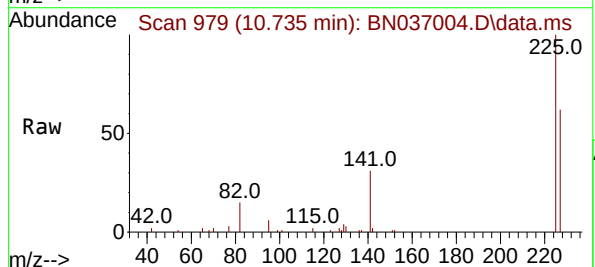
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

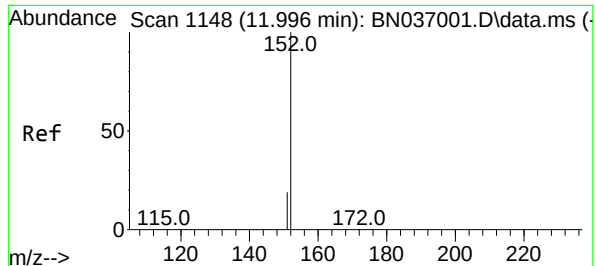
Tgt Ion:128 Resp: 39782  
Ion Ratio Lower Upper  
128 100  
129 10.9 9.7 14.5  
127 13.7 12.4 18.6



#10  
Hexachlorobutadiene  
Concen: 3.046 ng  
RT: 10.735 min Scan# 979  
Delta R.T. -0.011 min  
Lab File: BN037004.D  
Acq: 13 May 2025 20:41

Tgt Ion:225 Resp: 8153  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 63.7 50.9 76.3

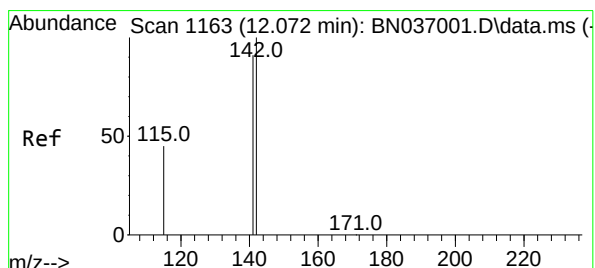
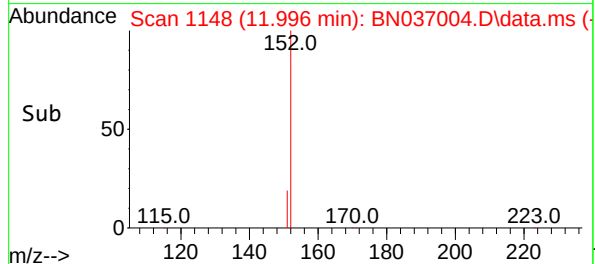
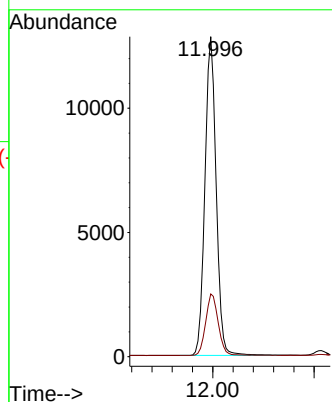
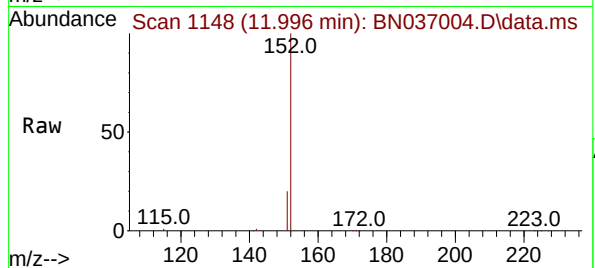




#11  
2-Methylnaphthalene-d10  
Concen: 3.260 ng  
RT: 11.996 min Scan# 1148  
Delta R.T. 0.000 min  
Lab File: BN037004.D  
Acq: 13 May 2025 20:41

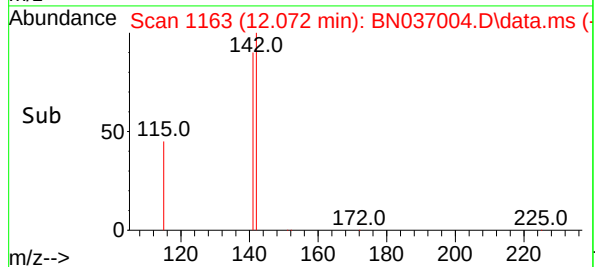
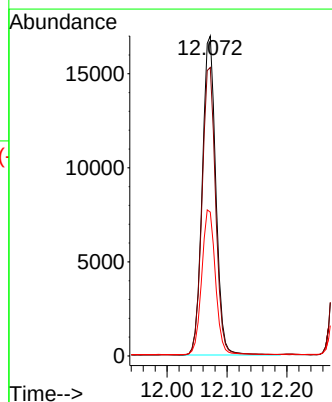
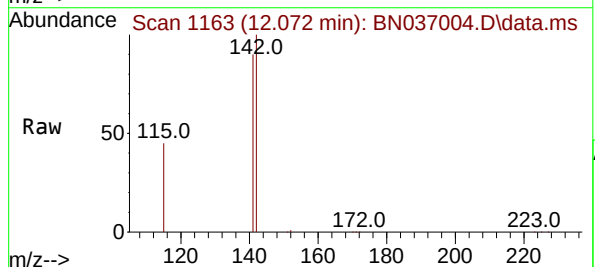
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

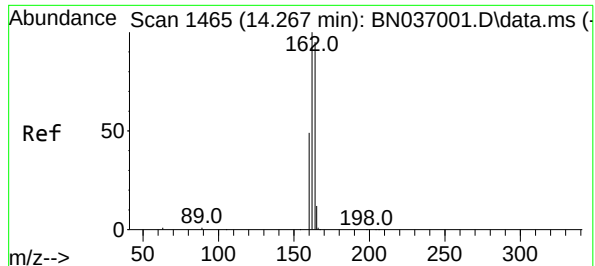
Tgt Ion:152 Resp: 19801  
Ion Ratio Lower Upper  
152 100  
151 21.5 17.5 26.3



#12  
2-Methylnaphthalene  
Concen: 3.242 ng  
RT: 12.072 min Scan# 1163  
Delta R.T. 0.000 min  
Lab File: BN037004.D  
Acq: 13 May 2025 20:41

Tgt Ion:142 Resp: 26589  
Ion Ratio Lower Upper  
142 100  
141 90.2 73.3 109.9  
115 45.0 38.4 57.6

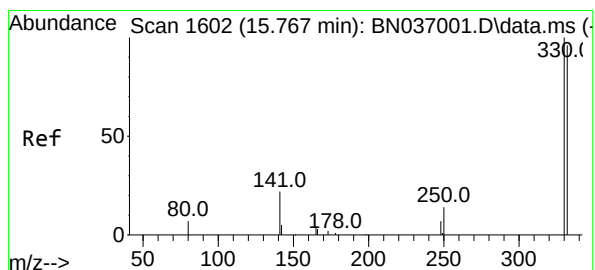
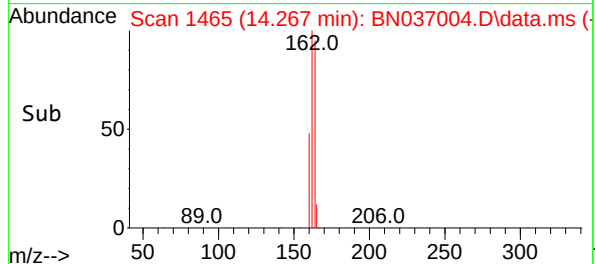
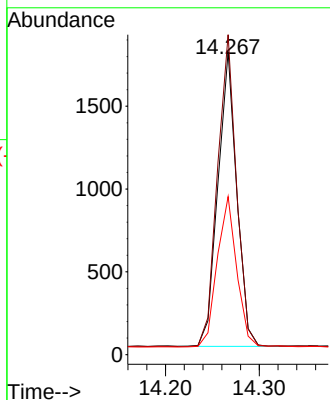
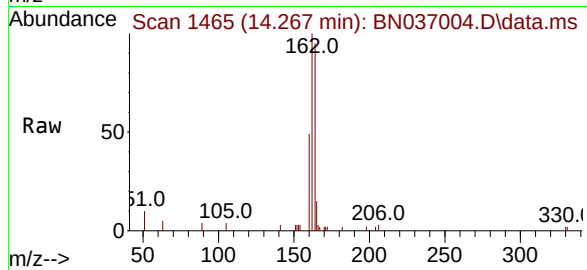




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.267 min Scan# 1465  
Delta R.T. 0.000 min  
Lab File: BN037004.D  
Acq: 13 May 2025 20:41

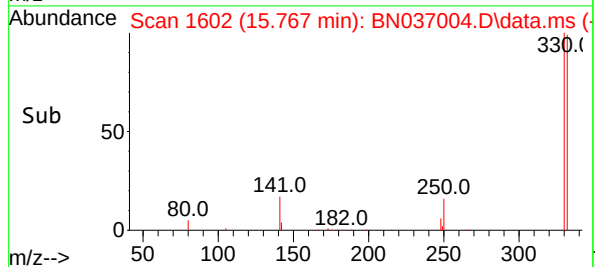
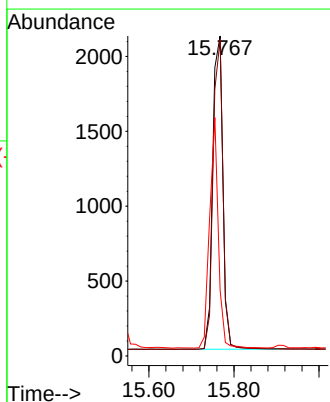
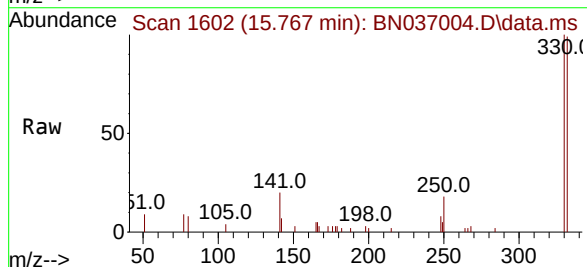
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

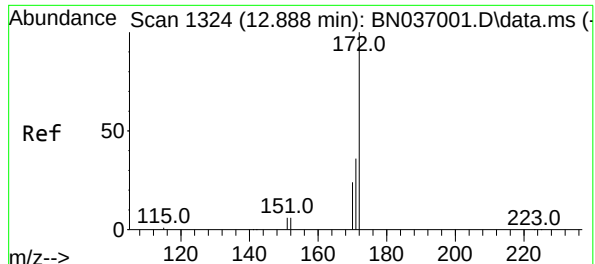
Tgt Ion:164 Resp: 2482  
Ion Ratio Lower Upper  
164 100  
162 105.6 84.2 126.4  
160 52.1 42.6 63.8



#14  
2,4,6-Tribromophenol  
Concen: 3.194 ng  
RT: 15.767 min Scan# 1602  
Delta R.T. 0.000 min  
Lab File: BN037004.D  
Acq: 13 May 2025 20:41

Tgt Ion:330 Resp: 3482  
Ion Ratio Lower Upper  
330 100  
332 95.6 73.8 110.8  
141 63.0 43.9 65.9

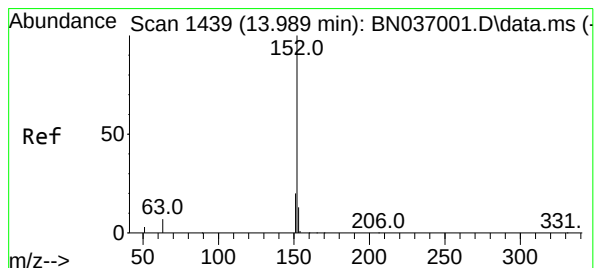
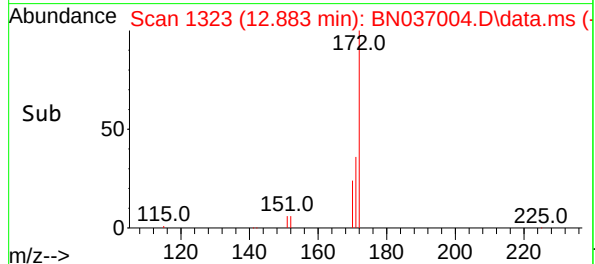
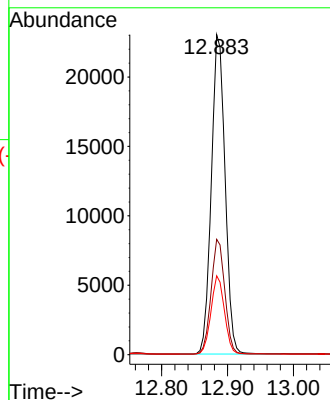
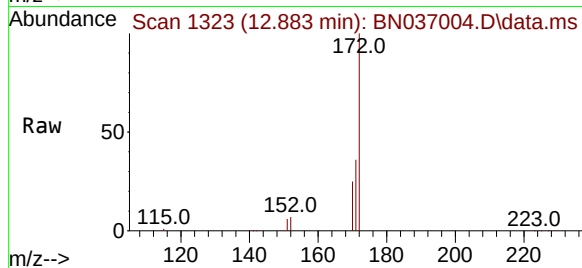




#15  
2-Fluorobiphenyl  
Concen: 2.921 ng  
RT: 12.883 min Scan# 11  
Delta R.T. -0.005 min  
Lab File: BN037004.D  
Acq: 13 May 2025 20:41

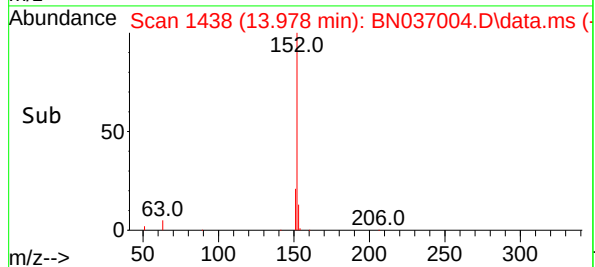
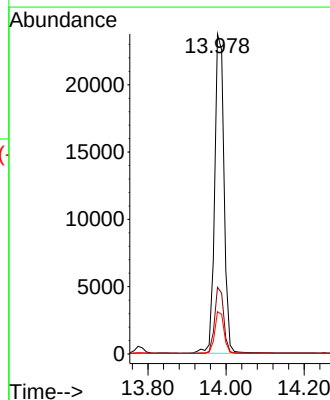
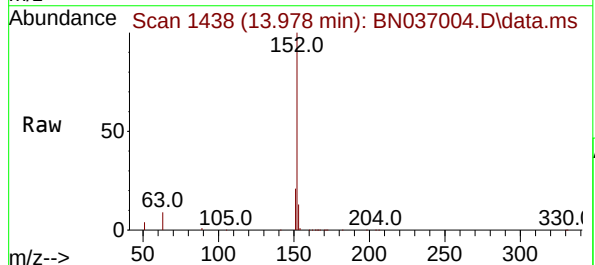
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

Tgt Ion:172 Resp: 33203  
Ion Ratio Lower Upper  
172 100  
171 36.1 29.2 43.8  
170 24.6 20.5 30.7

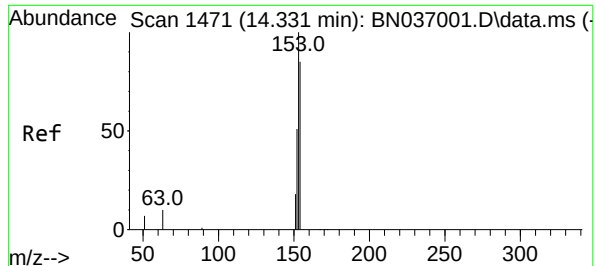


#16  
Acenaphthylene  
Concen: 3.282 ng  
RT: 13.978 min Scan# 1438  
Delta R.T. -0.011 min  
Lab File: BN037004.D  
Acq: 13 May 2025 20:41

Tgt Ion:152 Resp: 39649  
Ion Ratio Lower Upper  
152 100  
151 20.1 16.1 24.1  
153 12.9 10.5 15.7







#17

Acenaphthene

Concen: 3.265 ng

RT: 14.331 min Scan# 1471

Delta R.T. 0.000 min

Lab File: BN037004.D

Acq: 13 May 2025 20:41

Instrument :

BNA\_N

ClientSampleId :

SSTDICC3.2

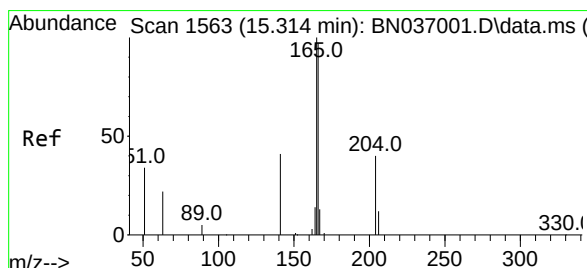
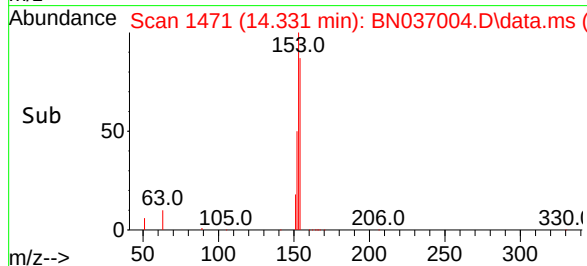
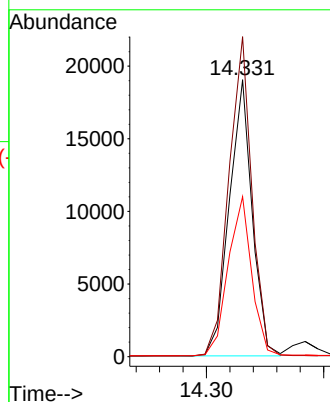
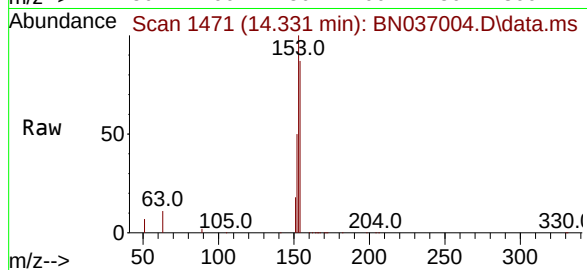
Tgt Ion:154 Resp: 25773

Ion Ratio Lower Upper

154 100

153 116.1 94.2 141.4

152 59.7 49.4 74.0



#18

Fluorene

Concen: 3.300 ng

RT: 15.314 min Scan# 1563

Delta R.T. 0.000 min

Lab File: BN037004.D

Acq: 13 May 2025 20:41

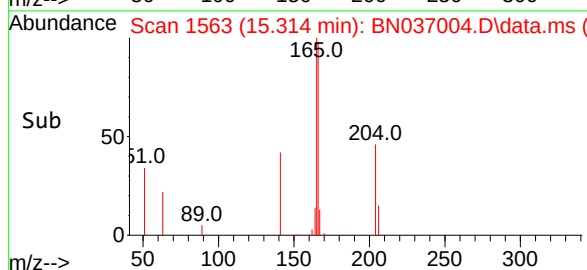
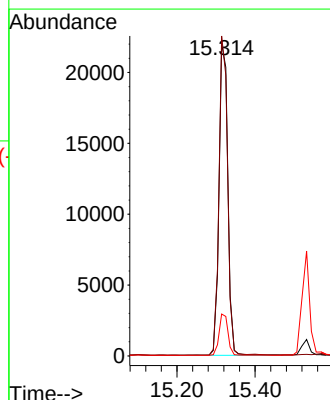
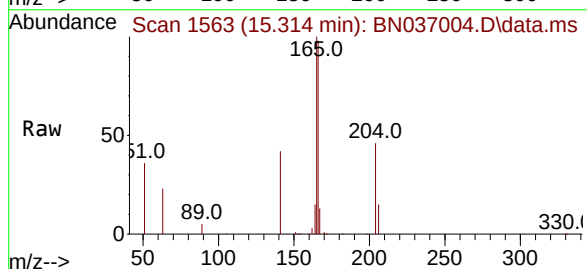
Tgt Ion:166 Resp: 34177

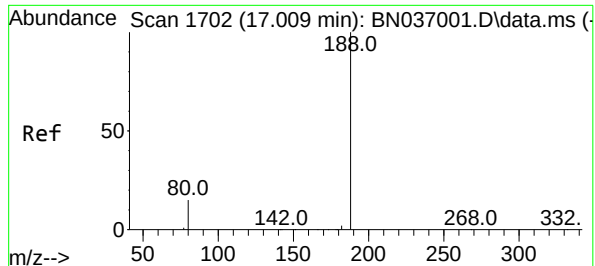
Ion Ratio Lower Upper

166 100

165 100.0 80.6 120.8

167 13.3 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.009 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037004.D

Acq: 13 May 2025 20:41

Instrument :

BNA\_N

ClientSampleId :

SSTDICC3.2

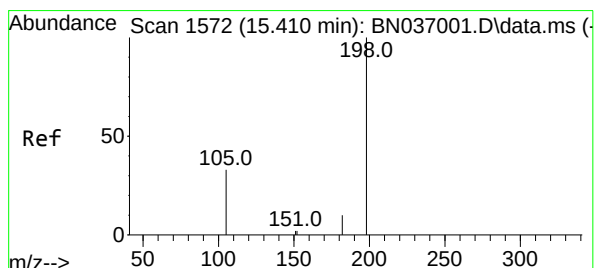
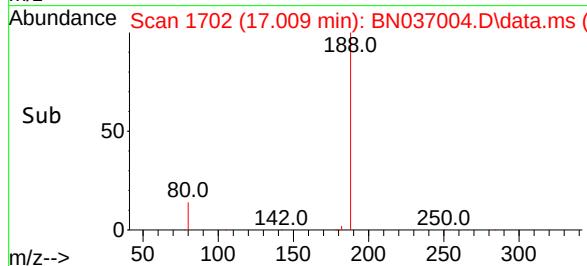
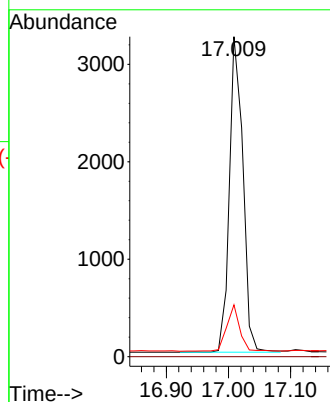
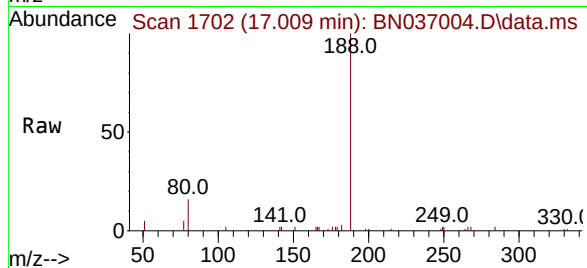
Tgt Ion:188 Resp: 4870

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 16.2 13.4 20.0



#20

4,6-Dinitro-2-methylphenol

Concen: 3.111 ng

RT: 15.400 min Scan# 1571

Delta R.T. -0.010 min

Lab File: BN037004.D

Acq: 13 May 2025 20:41

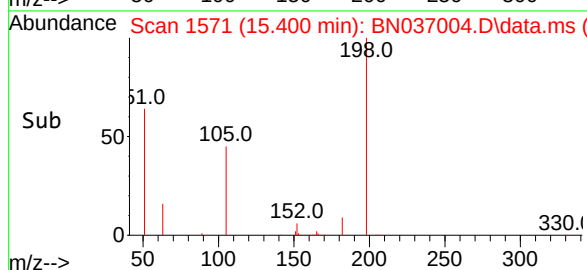
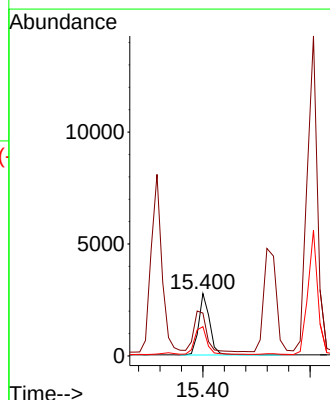
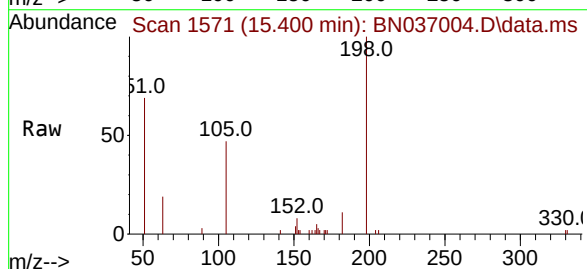
Tgt Ion:198 Resp: 4002

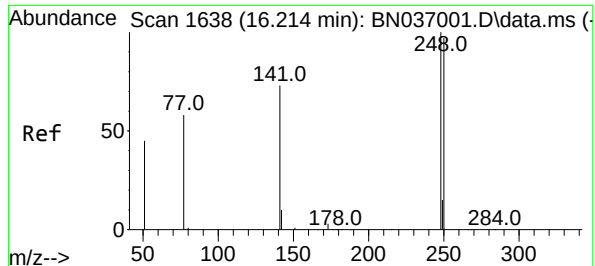
Ion Ratio Lower Upper

198 100

51 68.7 87.8 131.6#

105 47.0 44.2 66.4

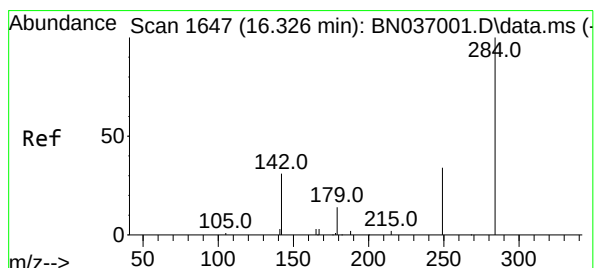
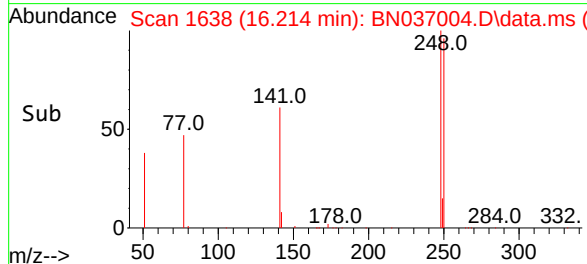
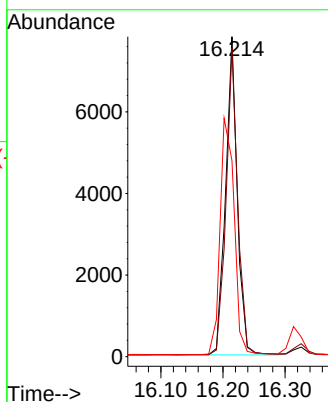
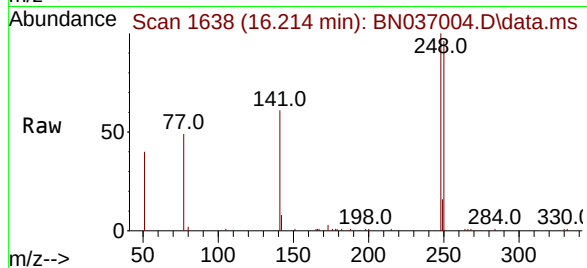




#21  
4-Bromophenyl-phenylether  
Concen: 3.305 ng  
RT: 16.214 min Scan# 1638  
Delta R.T. 0.000 min  
Lab File: BN037004.D  
Acq: 13 May 2025 20:41

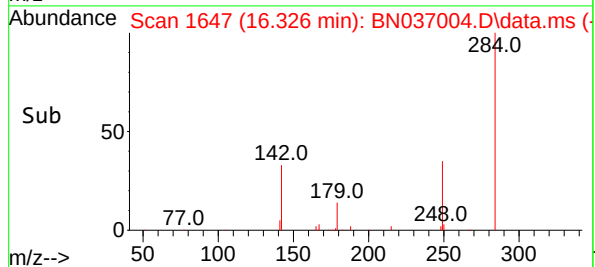
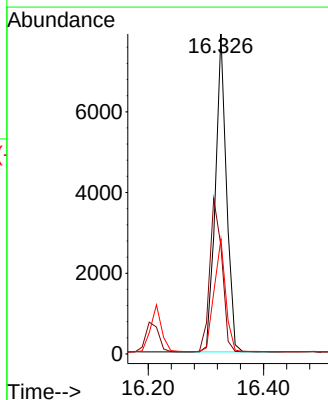
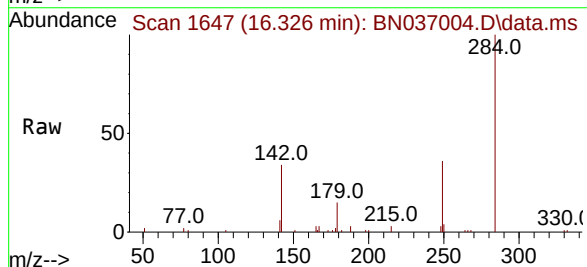
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

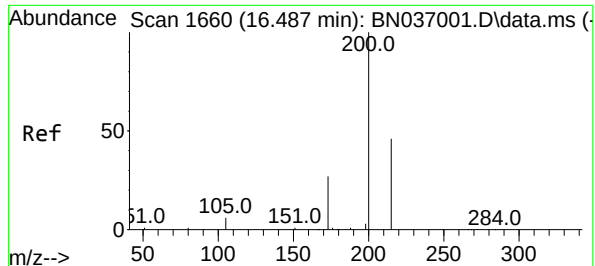
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 248     | 100   |       |       |
| 250     | 96.3  | 78.1  | 117.1 |
| 141     | 61.3  | 59.7  | 89.5  |



#22  
Hexachlorobenzene  
Concen: 3.189 ng  
RT: 16.326 min Scan# 1647  
Delta R.T. 0.000 min  
Lab File: BN037004.D  
Acq: 13 May 2025 20:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 284     | 100   |       |       |
| 142     | 52.9  | 41.2  | 61.8  |
| 249     | 36.7  | 28.7  | 43.1  |

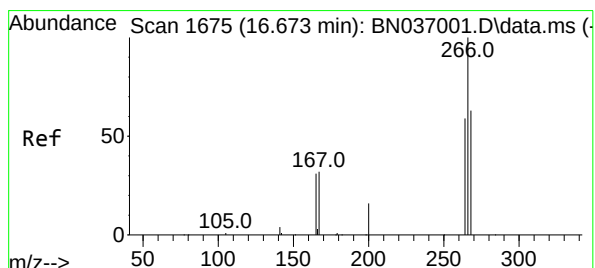
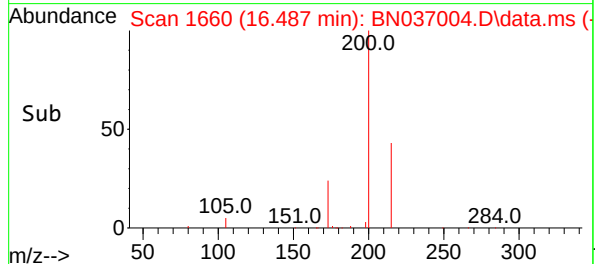
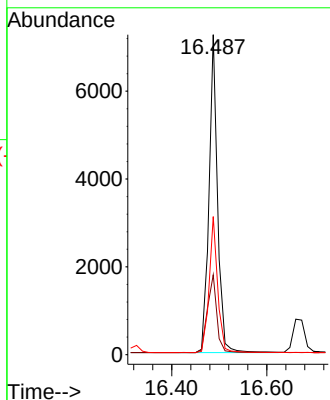
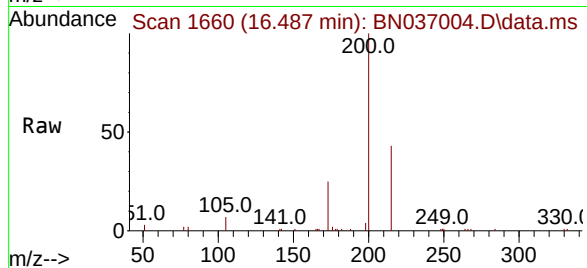




#23  
Atrazine  
Concen: 3.393 ng  
RT: 16.487 min Scan# 1660  
Delta R.T. 0.000 min  
Lab File: BN037004.D  
Acq: 13 May 2025 20:41

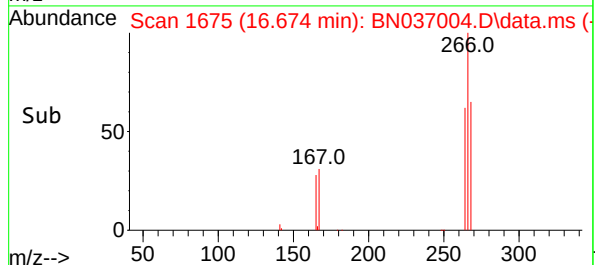
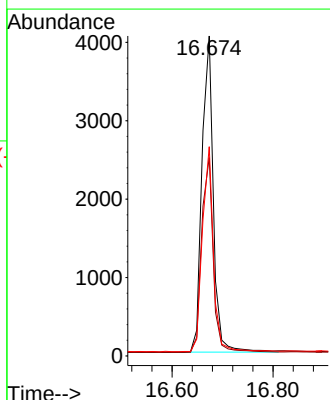
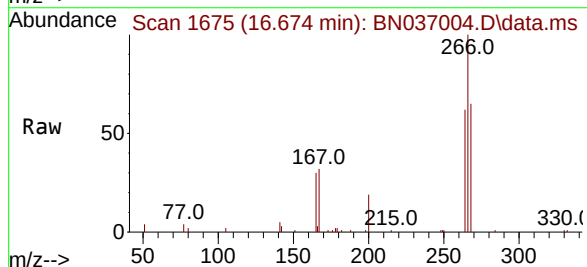
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

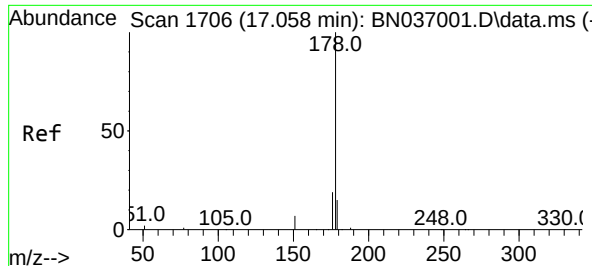
Tgt Ion:200 Resp: 9103  
Ion Ratio Lower Upper  
200 100  
173 24.9 25.2 37.8#  
215 43.2 39.3 58.9



#24  
Pentachlorophenol  
Concen: 3.460 ng  
RT: 16.674 min Scan# 1675  
Delta R.T. 0.000 min  
Lab File: BN037004.D  
Acq: 13 May 2025 20:41

Tgt Ion:266 Resp: 6329  
Ion Ratio Lower Upper  
266 100  
264 62.8 47.9 71.9  
268 62.9 50.0 75.0

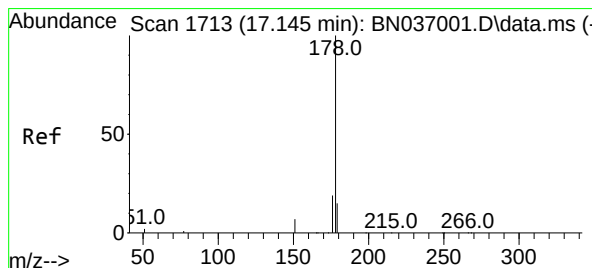
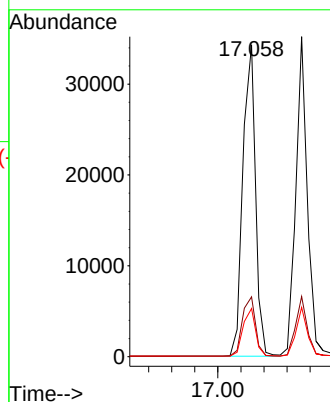
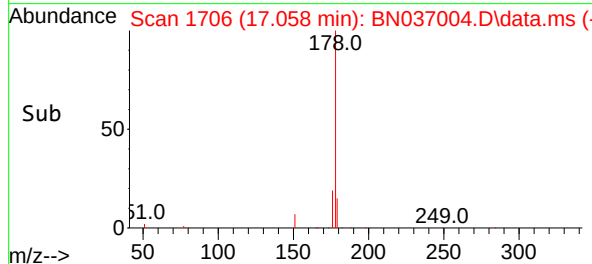
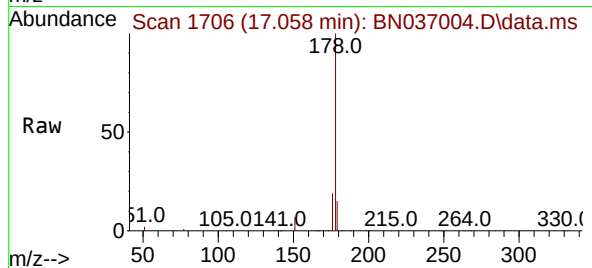




#25  
Phenanthrene  
Concen: 3.272 ng  
RT: 17.058 min Scan# 1706  
Delta R.T. 0.000 min  
Lab File: BN037004.D  
Acq: 13 May 2025 20:41

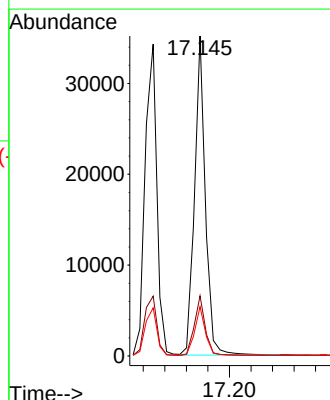
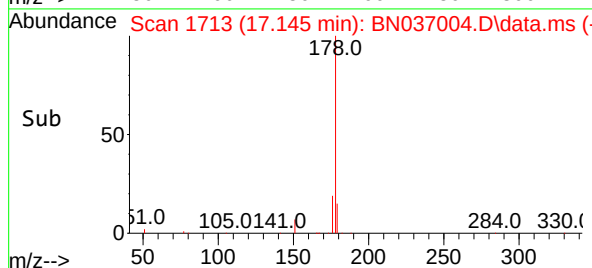
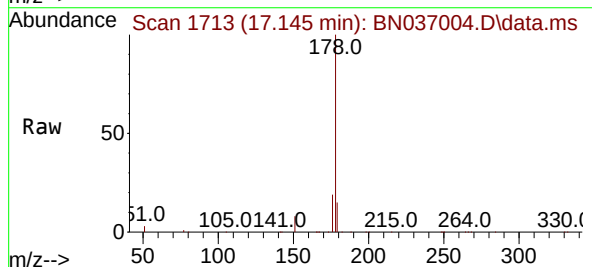
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

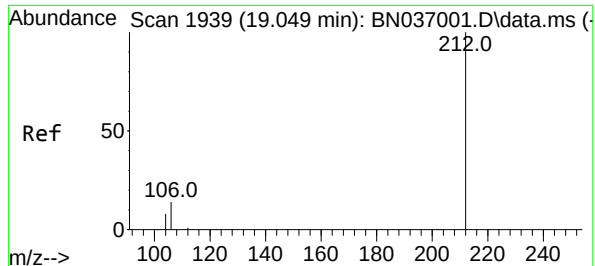
Tgt Ion:178 Resp: 52084  
Ion Ratio Lower Upper  
178 100  
176 19.7 15.7 23.5  
179 15.1 12.2 18.2



#26  
Anthracene  
Concen: 3.388 ng  
RT: 17.145 min Scan# 1713  
Delta R.T. 0.000 min  
Lab File: BN037004.D  
Acq: 13 May 2025 20:41

Tgt Ion:178 Resp: 49070  
Ion Ratio Lower Upper  
178 100  
176 18.8 15.0 22.6  
179 15.2 12.3 18.5





#27

Fluoranthene-d10

Concen: 3.388 ng

RT: 19.049 min Scan# 1939

Delta R.T. 0.000 min

Lab File: BN037004.D

Acq: 13 May 2025 20:41

Instrument :

BNA\_N

ClientSampleId :

SSTDICC3.2

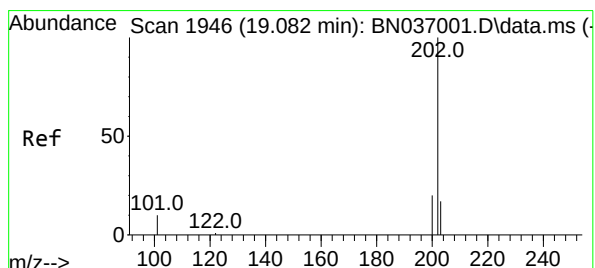
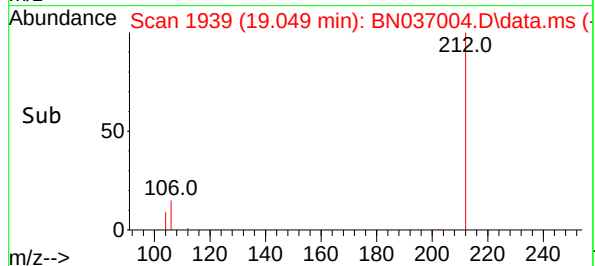
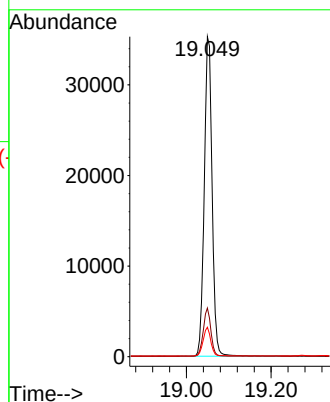
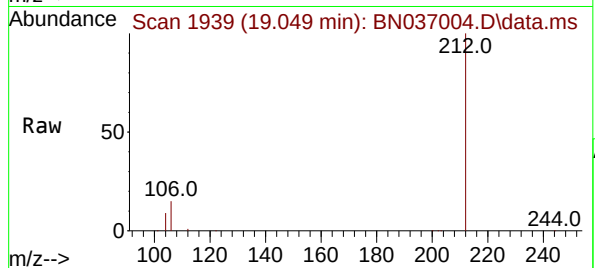
Tgt Ion:212 Resp: 45238

Ion Ratio Lower Upper

212 100

106 14.6 11.3 16.9

104 8.8 6.7 10.1



#28

Fluoranthene

Concen: 3.426 ng

RT: 19.082 min Scan# 1946

Delta R.T. 0.000 min

Lab File: BN037004.D

Acq: 13 May 2025 20:41

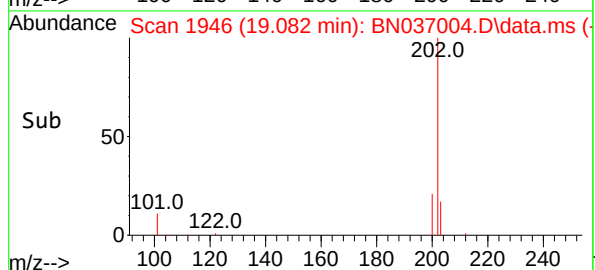
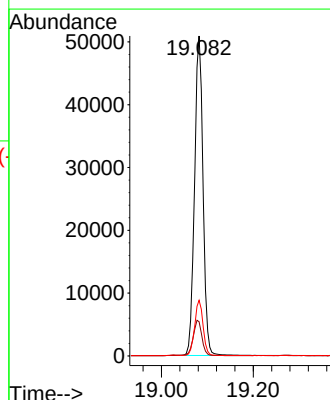
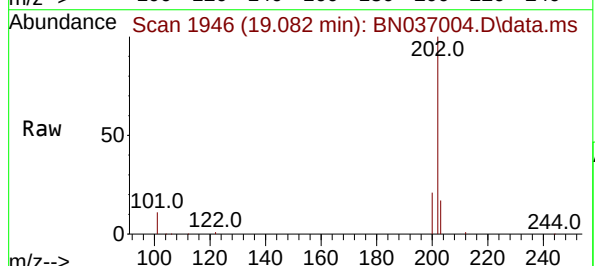
Tgt Ion:202 Resp: 65127

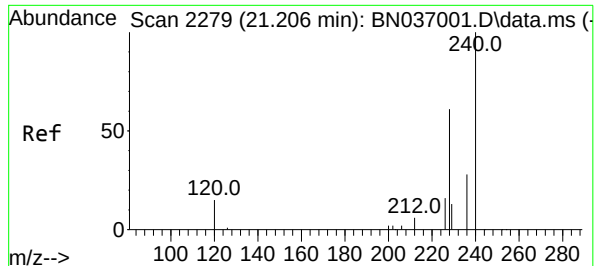
Ion Ratio Lower Upper

202 100

101 11.5 8.9 13.3

203 17.2 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.207 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037004.D

Acq: 13 May 2025 20:41

Instrument :

BNA\_N

ClientSampleId :

SSTDICC3.2

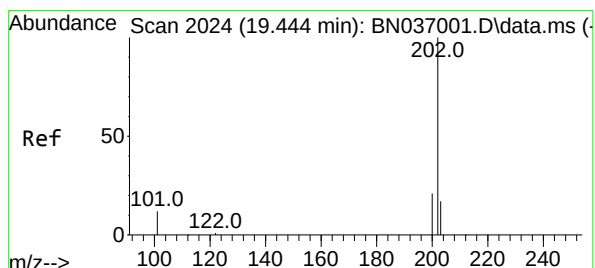
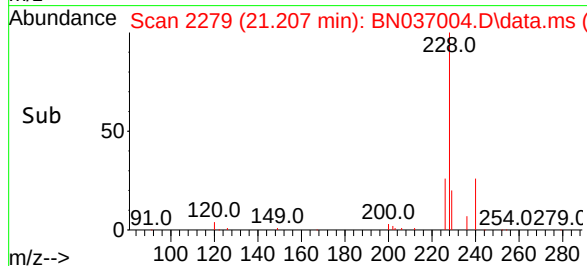
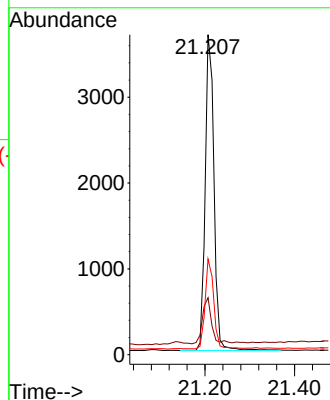
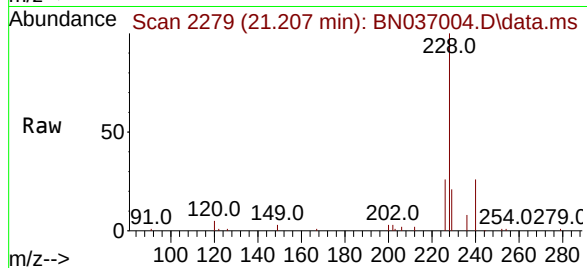
Tgt Ion:240 Resp: 5021

Ion Ratio Lower Upper

240 100

120 17.8 15.1 22.7

236 29.9 24.0 36.0



#30

Pyrene

Concen: 3.069 ng

RT: 19.444 min Scan# 2024

Delta R.T. 0.000 min

Lab File: BN037004.D

Acq: 13 May 2025 20:41

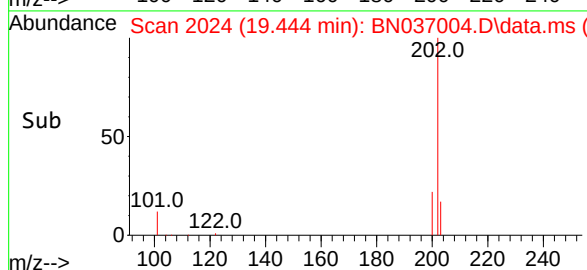
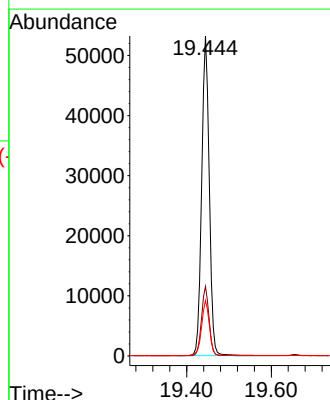
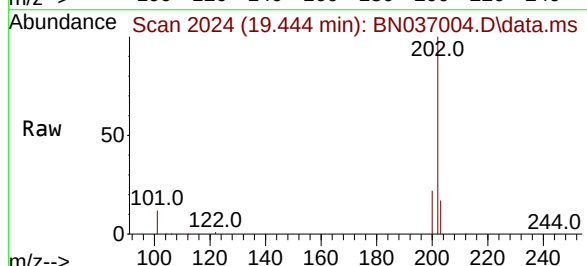
Tgt Ion:202 Resp: 65923

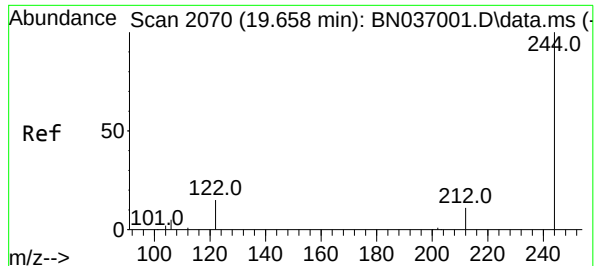
Ion Ratio Lower Upper

202 100

200 21.5 17.1 25.7

203 17.8 14.2 21.4

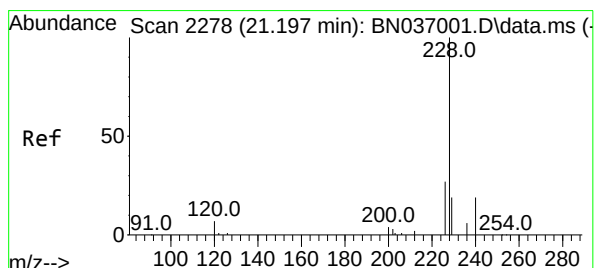
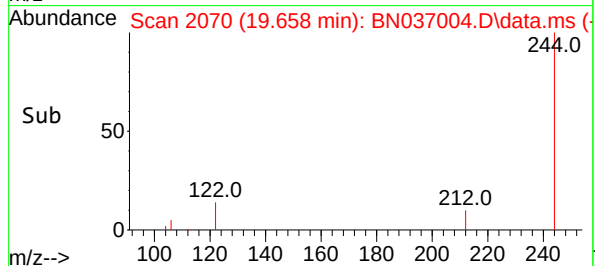
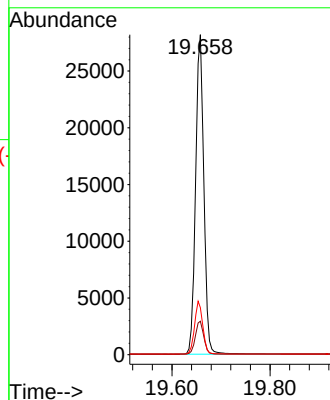
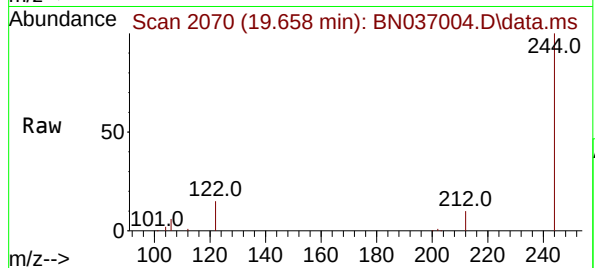




#31  
Terphenyl-d14  
Concen: 3.051 ng  
RT: 19.658 min Scan# 2070  
Delta R.T. 0.000 min  
Lab File: BN037004.D  
Acq: 13 May 2025 20:41

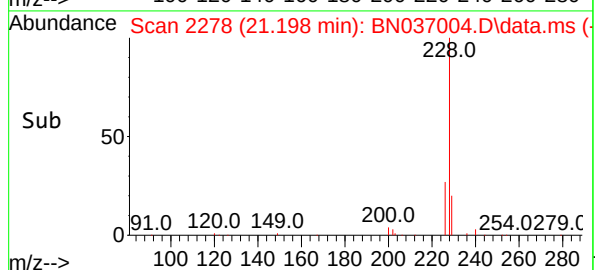
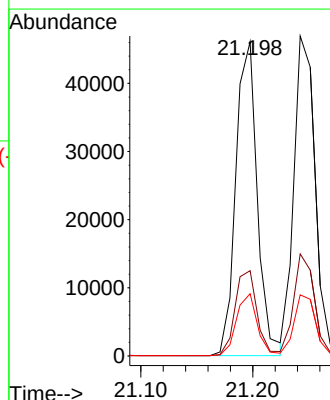
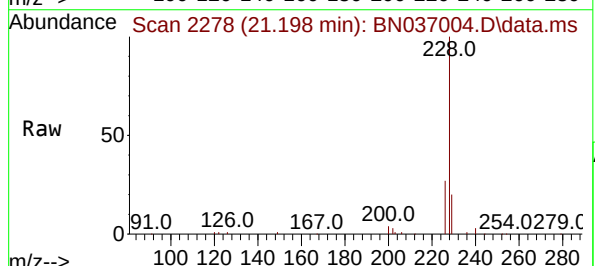
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

Tgt Ion:244 Resp: 32768  
Ion Ratio Lower Upper  
244 100  
212 10.5 9.7 14.5  
122 14.7 13.4 20.0

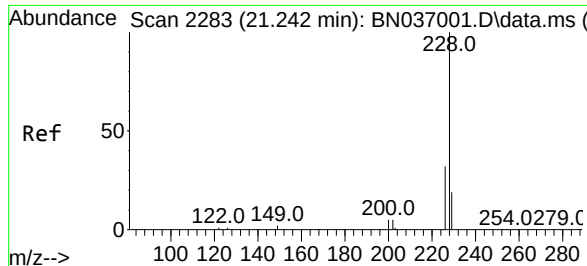


#32  
Benzo(a)anthracene  
Concen: 3.232 ng  
RT: 21.198 min Scan# 2278  
Delta R.T. 0.000 min  
Lab File: BN037004.D  
Acq: 13 May 2025 20:41

Tgt Ion:228 Resp: 61105  
Ion Ratio Lower Upper  
228 100  
226 27.1 22.2 33.4  
229 19.8 16.0 24.0







#33

Chrysene

Concen: 3.134 ng

RT: 21.242 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037004.D

Acq: 13 May 2025 20:41

Instrument :

BNA\_N

ClientSampleId :

SSTDICC3.2

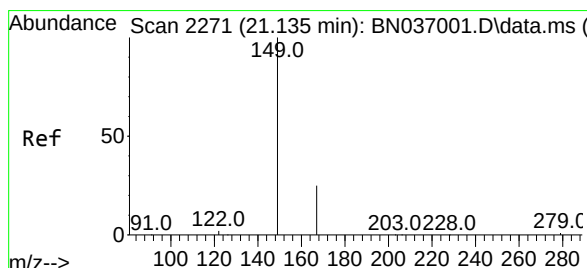
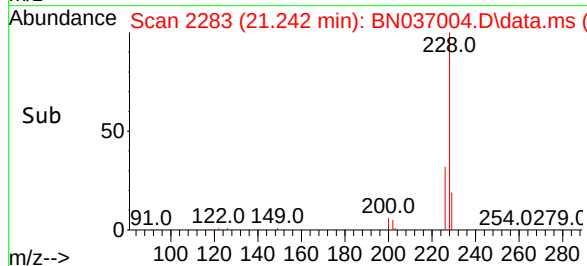
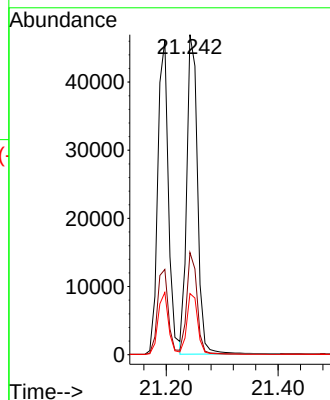
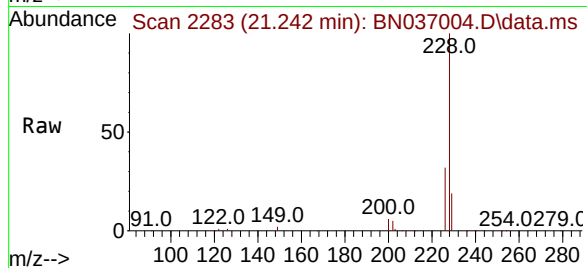
Tgt Ion:228 Resp: 62672

Ion Ratio Lower Upper

228 100

226 31.9 26.3 39.5

229 19.1 16.2 24.2



#34

Bis(2-ethylhexyl)phthalate

Concen: 3.113 ng

RT: 21.135 min Scan# 2271

Delta R.T. 0.000 min

Lab File: BN037004.D

Acq: 13 May 2025 20:41

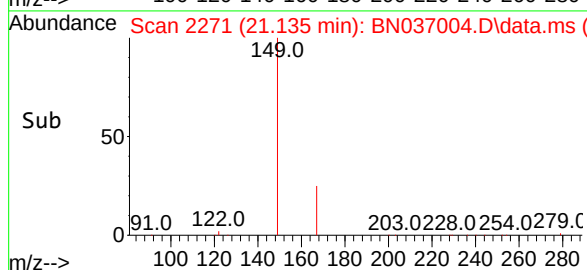
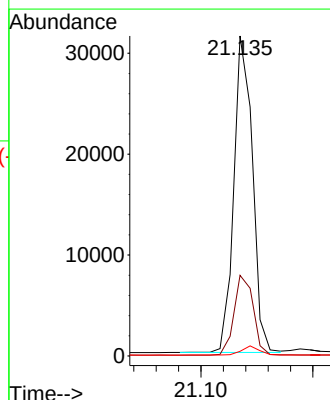
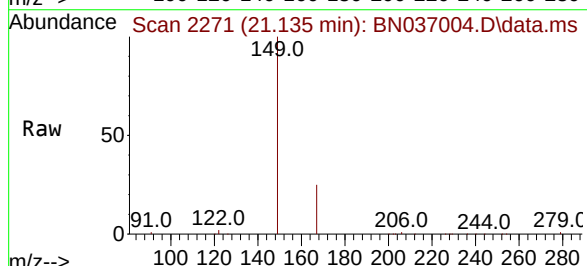
Tgt Ion:149 Resp: 36266

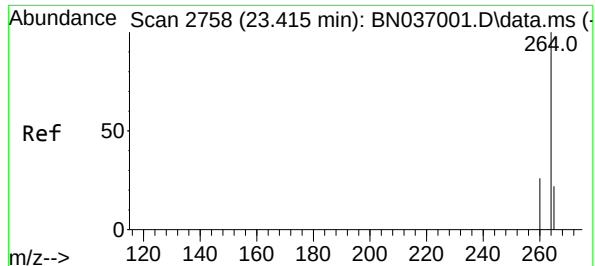
Ion Ratio Lower Upper

149 100

167 26.0 20.6 30.8

279 2.7 2.6 3.8





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.415 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037004.D

Acq: 13 May 2025 20:41

Instrument :

BNA\_N

ClientSampleId :

SSTDICC3.2

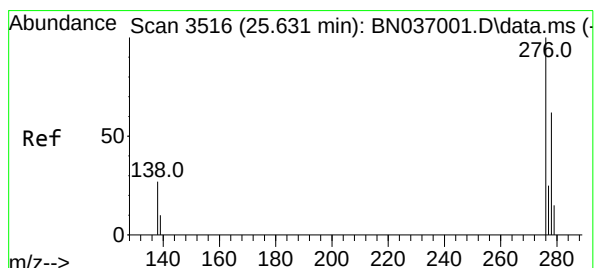
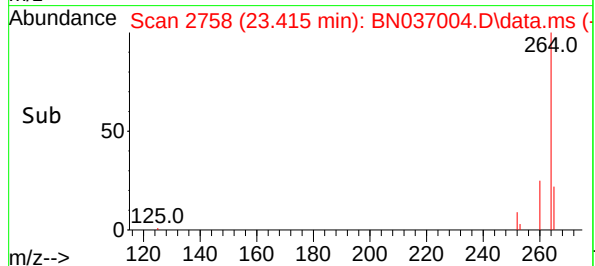
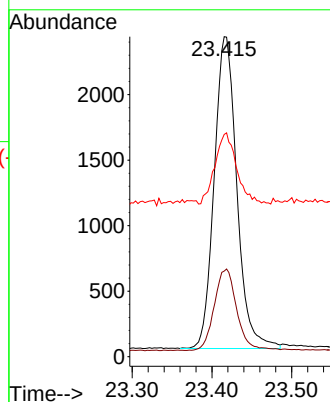
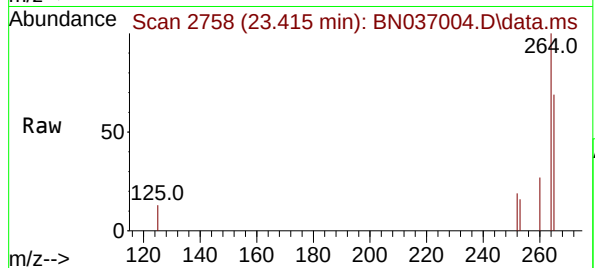
Tgt Ion:264 Resp: 4705

Ion Ratio Lower Upper

264 100

260 26.8 21.9 32.9

265 69.5 51.6 77.4



#36

Indeno(1,2,3-cd)pyrene

Concen: 3.393 ng

RT: 25.631 min Scan# 3516

Delta R.T. 0.000 min

Lab File: BN037004.D

Acq: 13 May 2025 20:41

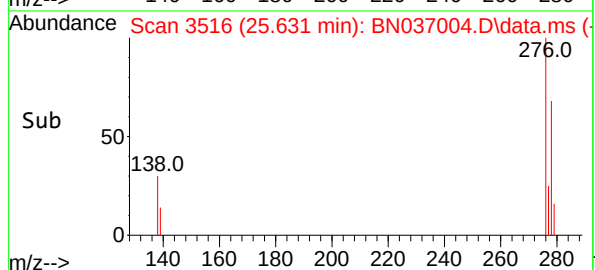
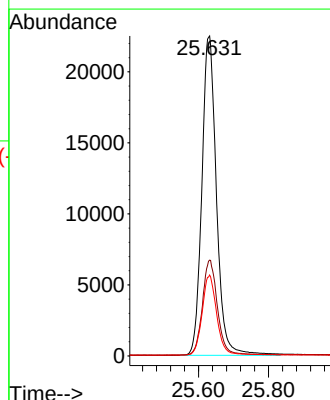
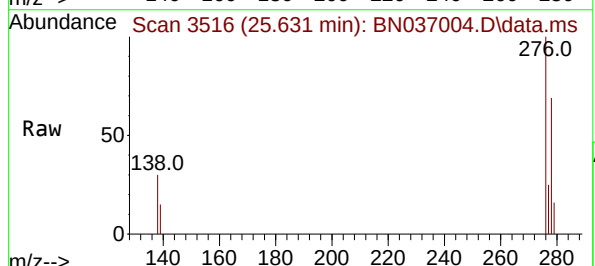
Tgt Ion:276 Resp: 65193

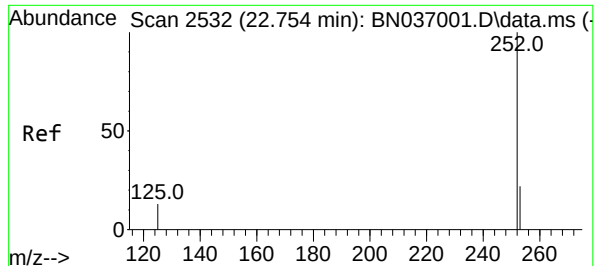
Ion Ratio Lower Upper

276 100

138 30.4 22.7 34.1

277 25.0 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 3.277 ng

RT: 22.755 min Scan# 2532

Delta R.T. 0.000 min

Lab File: BN037004.D

Acq: 13 May 2025 20:41

Instrument :

BNA\_N

ClientSampleId :

SSTDICC3.2

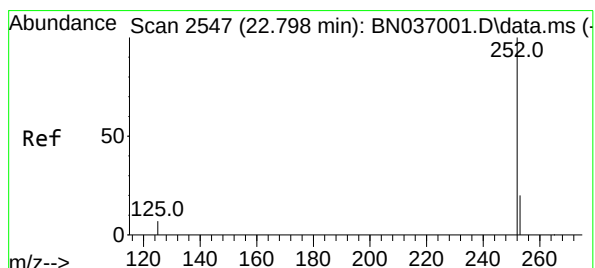
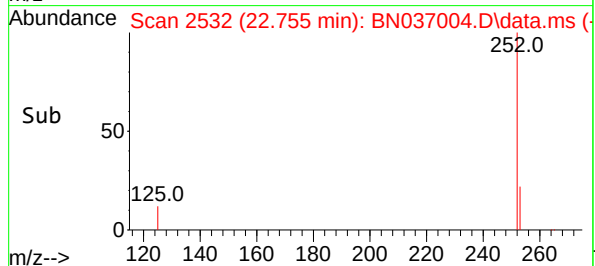
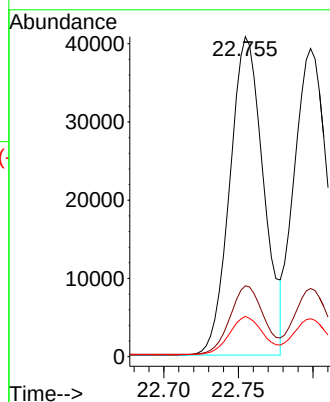
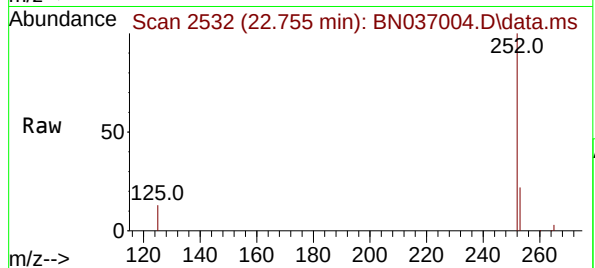
Tgt Ion:252 Resp: 63928

Ion Ratio Lower Upper

252 100

253 22.2 21.8 32.6

125 12.6 14.6 21.8#



#38

Benzo(k)fluoranthene

Concen: 3.245 ng

RT: 22.798 min Scan# 2547

Delta R.T. 0.000 min

Lab File: BN037004.D

Acq: 13 May 2025 20:41

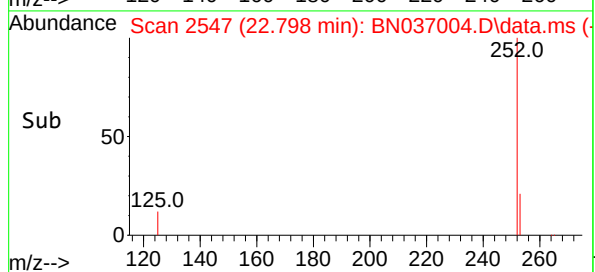
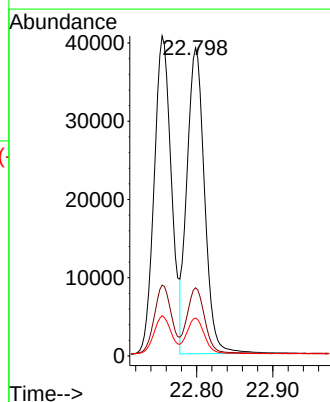
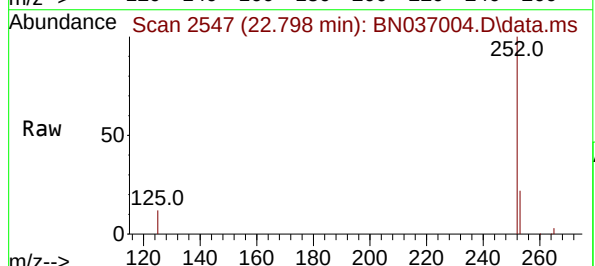
Tgt Ion:252 Resp: 62537

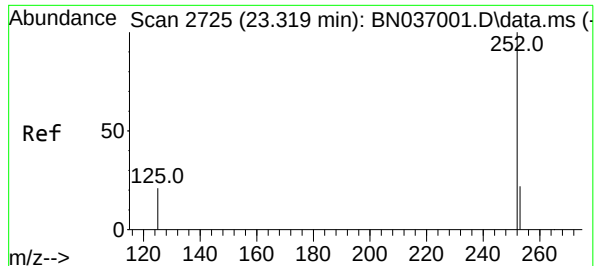
Ion Ratio Lower Upper

252 100

253 22.1 21.4 32.2

125 12.3 13.0 19.4#





#39

Benzo(a)pyrene

Concen: 3.284 ng

RT: 23.319 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037004.D

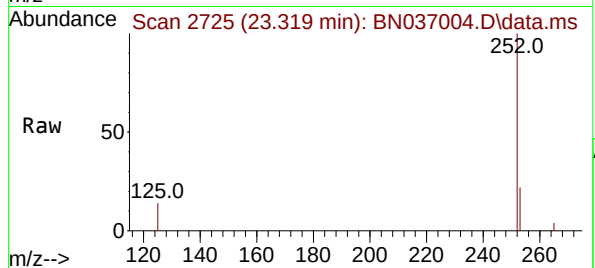
Acq: 13 May 2025 20:41

Instrument :

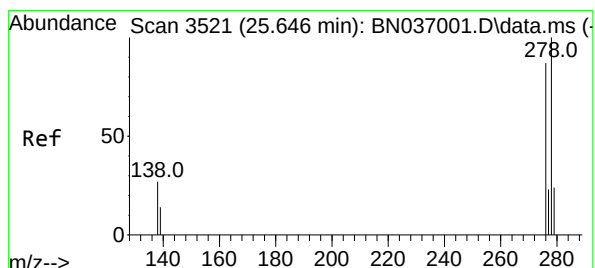
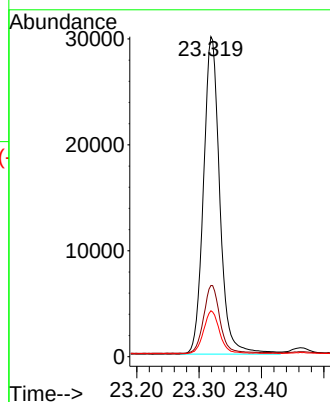
BNA\_N

ClientSampleId :

SSTDICC3.2



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 54366 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 22.3  | 23.8  | 35.6# |
| 125       | 14.4  | 21.8  | 32.6# |



#40

Dibenzo(a,h)anthracene

Concen: 3.460 ng

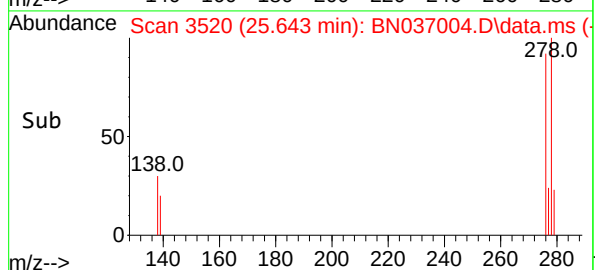
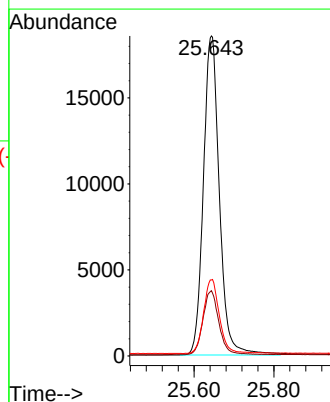
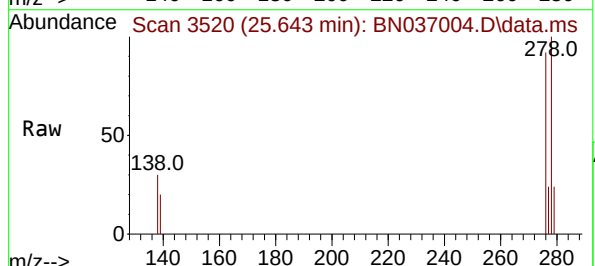
RT: 25.643 min Scan# 3520

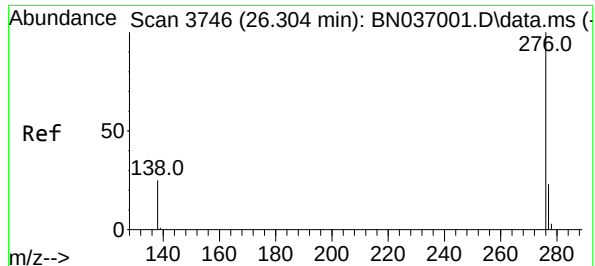
Delta R.T. -0.003 min

Lab File: BN037004.D

Acq: 13 May 2025 20:41

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 278   | Resp: | 51783 |
| Ion Ratio | Lower | Upper |       |
| 278       | 100   |       |       |
| 139       | 20.4  | 17.4  | 26.0  |
| 279       | 23.7  | 24.6  | 37.0# |





#41

Benzo(g,h,i)perylene

Concen: 3.331 ng

RT: 26.304 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN037004.D

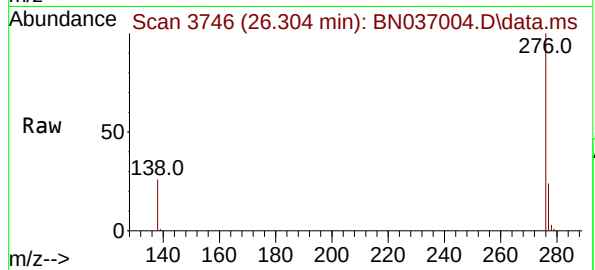
Acq: 13 May 2025 20:41

Instrument :

BNA\_N

ClientSampleId :

SSTDICC3.2



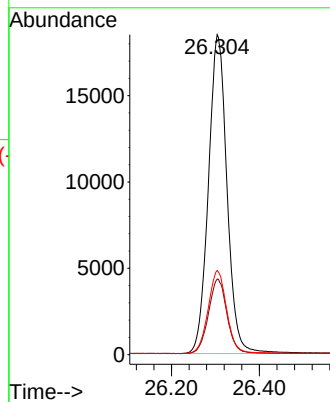
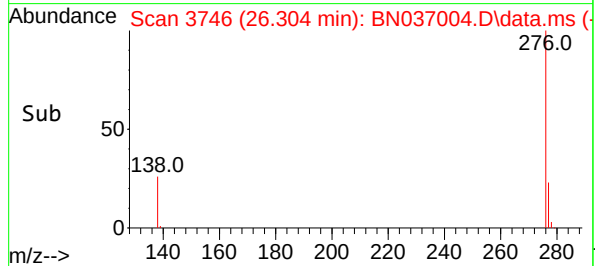
Tgt Ion:276 Resp: 54177

Ion Ratio Lower Upper

276 100

277 23.6 20.2 30.4

138 26.3 22.0 33.0



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN051425\  
 Data File : BN037005.D  
 Acq On : 13 May 2025 21:17  
 Operator : RC/JU  
 Sample : SSTDICC5.0  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC5.0

Quant Time: May 14 11:02:18 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN051425.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 14 10:57:36 2025  
 Response via : Initial Calibration

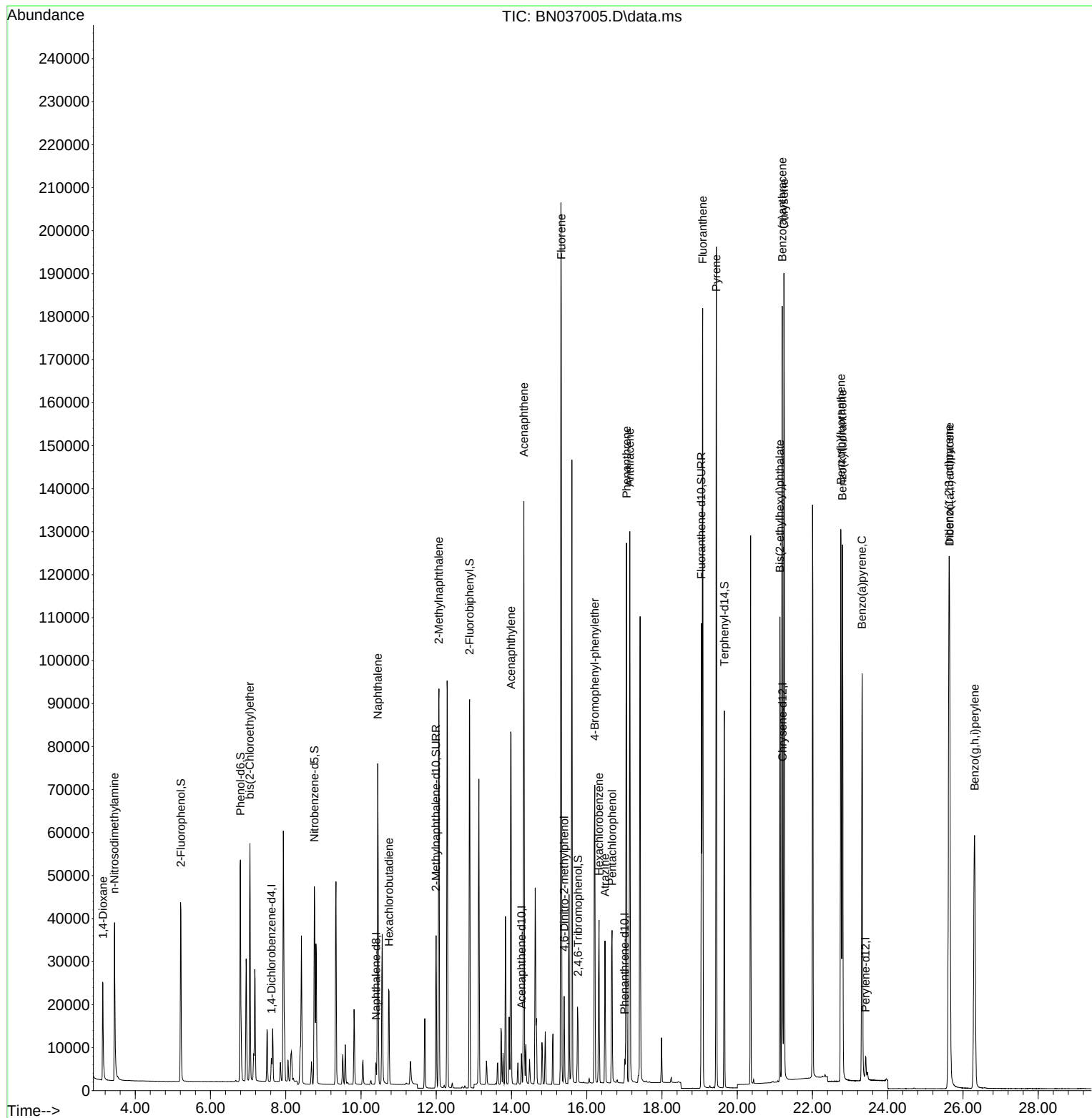
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.618  | 152  | 2402     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.404 | 136  | 6211     | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 14.266 | 164  | 3660     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 17.008 | 188  | 7377     | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 21.206 | 240  | 7435     | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.412 | 264  | 6657     | 0.400 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.213  | 112  | 29155    | 4.633 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.794  | 99   | 38800    | 4.928 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.760  | 82   | 34333    | 5.077 | ng    | -0.01    |
| 11) 2-Methylnaphthalene-d10   | 11.995 | 152  | 45677    | 5.225 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.767 | 330  | 8654     | 5.383 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.888 | 172  | 82658    | 4.932 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 19.049 | 212  | 108672   | 5.372 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.658 | 244  | 78766    | 4.953 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
|                               |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.140  | 88   | 13630    | 4.624 | ng    | 98       |
| 3) n-Nitrosodimethylamine     | 3.443  | 42   | 28520    | 4.504 | ng    | # 95     |
| 6) bis(2-Chloroethyl)ether    | 7.047  | 93   | 34458    | 4.755 | ng    | 99       |
| 9) Naphthalene                | 10.447 | 128  | 90412    | 4.926 | ng    | 96       |
| 10) Hexachlorobutadiene       | 10.745 | 225  | 18076    | 4.692 | ng    | # 100    |
| 12) 2-Methylnaphthalene       | 12.072 | 142  | 61370    | 5.199 | ng    | 98       |
| 16) Acenaphthylene            | 13.988 | 152  | 94911    | 5.328 | ng    | 100      |
| 17) Acenaphthene              | 14.330 | 154  | 60171    | 5.169 | ng    | 97       |
| 18) Fluorene                  | 15.325 | 166  | 80175    | 5.250 | ng    | 99       |
| 20) 4,6-Dinitro-2-methylph... | 15.399 | 198  | 11401    | 5.020 | ng    | # 77     |
| 21) 4-Bromophenyl-phenylether | 16.214 | 248  | 23877    | 5.124 | ng    | 93       |
| 22) Hexachlorobenzene         | 16.325 | 284  | 24597    | 4.931 | ng    | 100      |
| 23) Atrazine                  | 16.487 | 200  | 22281    | 5.483 | ng    | 91       |
| 24) Pentachlorophenol         | 16.673 | 266  | 16300    | 5.883 | ng    | 97       |
| 25) Phenanthrene              | 17.058 | 178  | 125493   | 5.205 | ng    | 100      |
| 26) Anthracene                | 17.145 | 178  | 119884   | 5.464 | ng    | 100      |
| 28) Fluoranthene              | 19.081 | 202  | 156131   | 5.421 | ng    | 99       |
| 30) Pyrene                    | 19.444 | 202  | 159039   | 5.001 | ng    | 100      |
| 32) Benzo(a)anthracene        | 21.197 | 228  | 149524   | 5.341 | ng    | 99       |
| 33) Chrysene                  | 21.242 | 228  | 146457   | 4.946 | ng    | 98       |
| 34) Bis(2-ethylhexyl)phtha... | 21.134 | 149  | 93938    | 5.445 | ng    | 99       |
| 36) Indeno(1,2,3-cd)pyrene    | 25.628 | 276  | 139772   | 5.141 | ng    | 97       |
| 37) Benzo(b)fluoranthene      | 22.754 | 252  | 146896   | 5.323 | ng    | # 89     |
| 38) Benzo(k)fluoranthene      | 22.798 | 252  | 143001   | 5.244 | ng    | # 90     |
| 39) Benzo(a)pyrene            | 23.318 | 252  | 123679   | 5.280 | ng    | # 80     |
| 40) Dibenzo(a,h)anthracene    | 25.643 | 278  | 111001   | 5.241 | ng    | # 91     |
| 41) Benzo(g,h,i)perylene      | 26.309 | 276  | 114459   | 4.975 | ng    | 98       |
| -----                         |        |      |          |       |       |          |

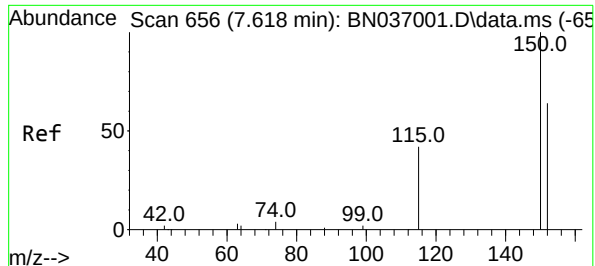
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN051425\  
Data File : BN037005.D  
Acq On : 13 May 2025 21:17  
Operator : RC/JU  
Sample : SSTDICC5.0  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

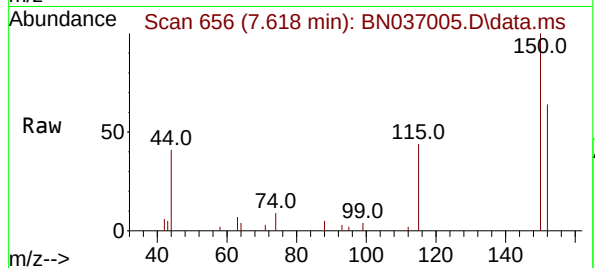
Quant Time: May 14 11:02:18 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN051425.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed May 14 10:57:36 2025  
Response via : Initial Calibration



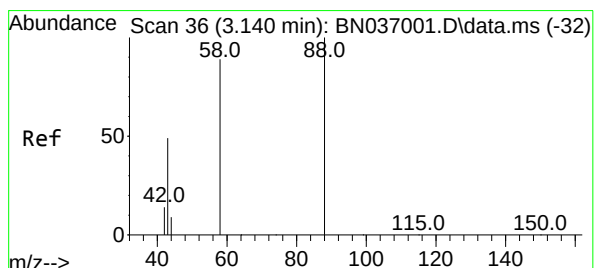
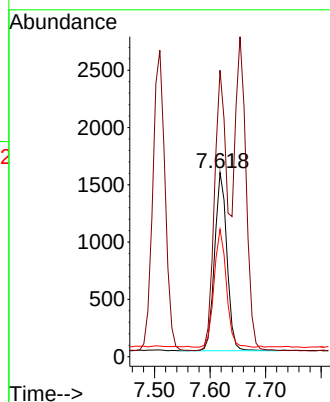
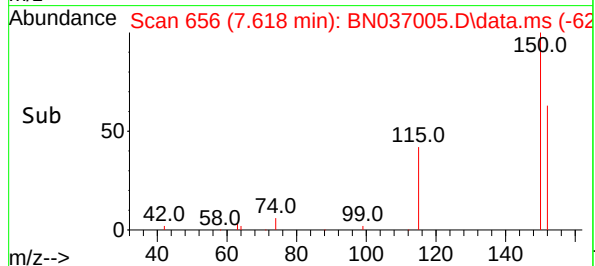


#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.618 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: BN037005.D  
Acq: 13 May 2025 21:17

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

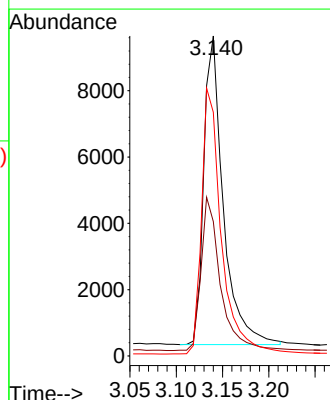
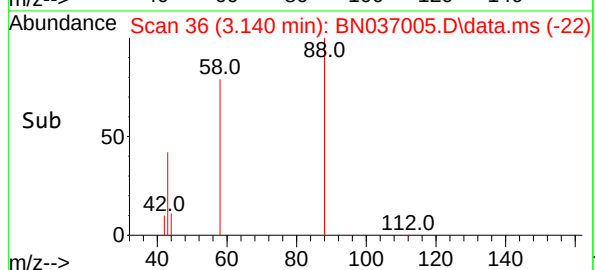
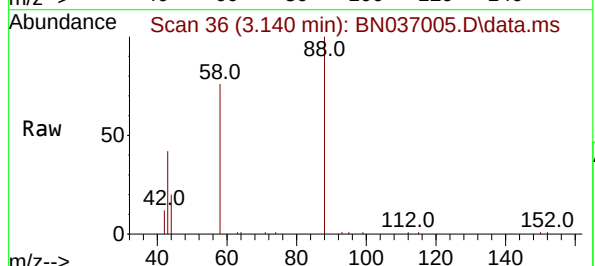


Tgt Ion:152 Resp: 2402  
Ion Ratio Lower Upper  
152 100  
150 155.6 123.9 185.9  
115 69.1 55.8 83.8

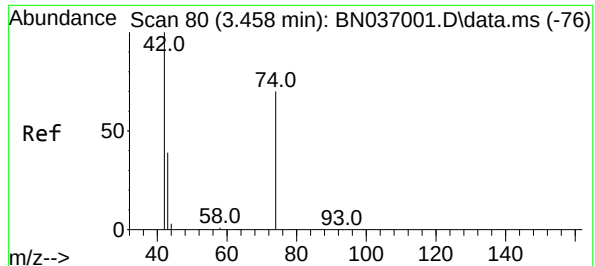


#2  
1,4-Dioxane  
Concen: 4.624 ng  
RT: 3.140 min Scan# 36  
Delta R.T. 0.000 min  
Lab File: BN037005.D  
Acq: 13 May 2025 21:17

Tgt Ion: 88 Resp: 13630  
Ion Ratio Lower Upper  
88 100  
43 49.2 37.4 56.0  
58 87.5 68.8 103.2



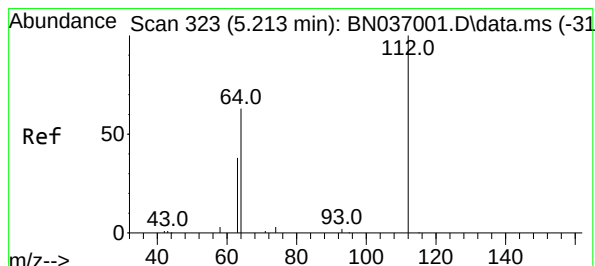
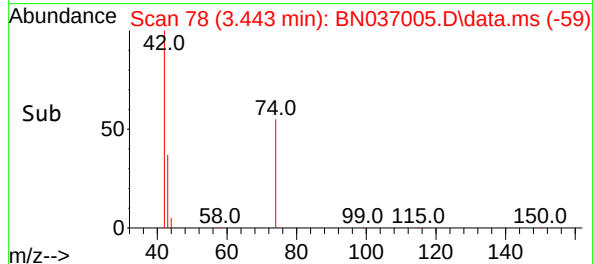
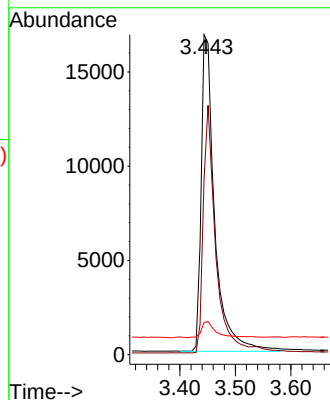
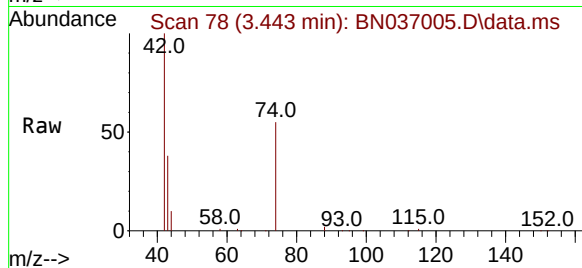




#3  
n-Nitrosodimethylamine  
Concen: 4.504 ng  
RT: 3.443 min Scan# 71  
Delta R.T. -0.015 min  
Lab File: BN037005.D  
Acq: 13 May 2025 21:17

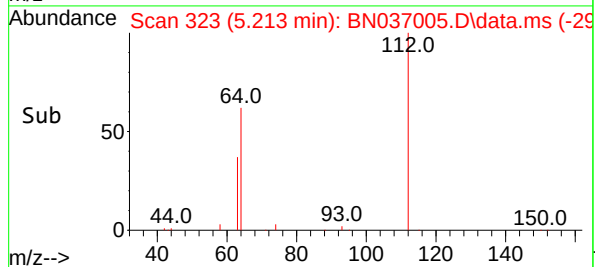
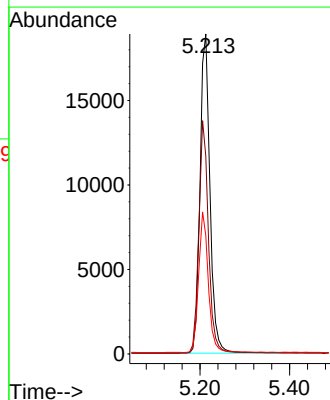
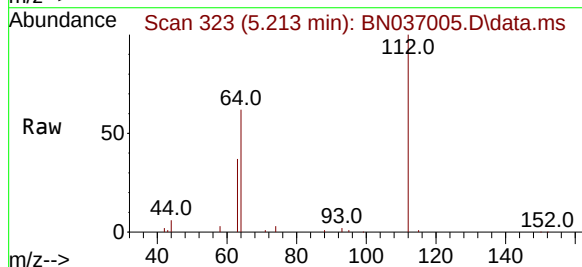
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

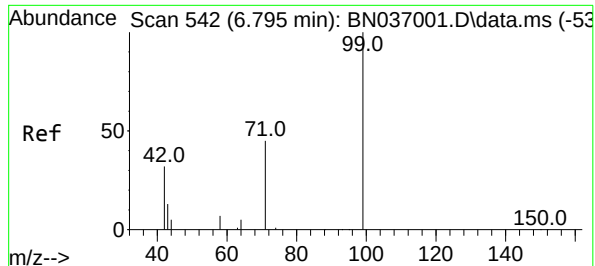
Tgt Ion: 42 Resp: 28520  
Ion Ratio Lower Upper  
42 100  
74 73.2 59.8 89.6  
44 5.5 11.9 17.9#



#4  
2-Fluorophenol  
Concen: 4.633 ng  
RT: 5.213 min Scan# 323  
Delta R.T. -0.000 min  
Lab File: BN037005.D  
Acq: 13 May 2025 21:17

Tgt Ion: 112 Resp: 29155  
Ion Ratio Lower Upper  
112 100  
64 70.8 55.7 83.5  
63 42.9 34.6 51.8

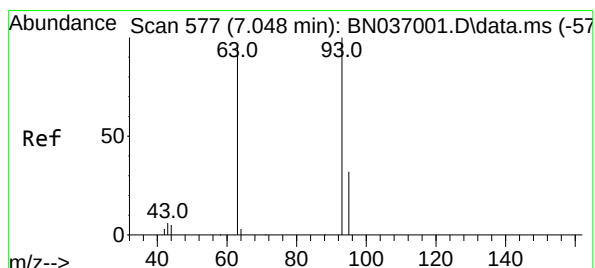
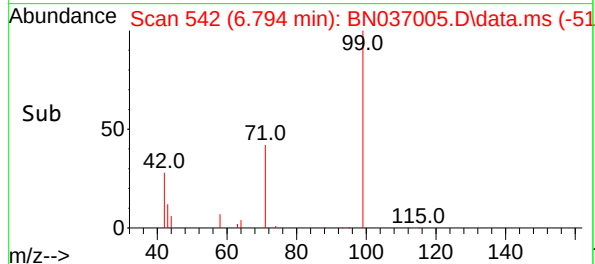
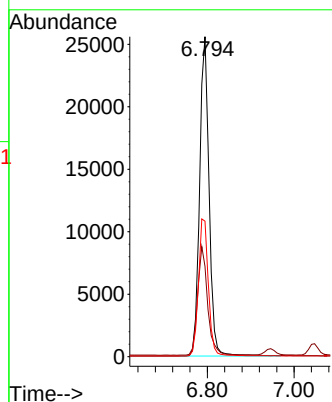
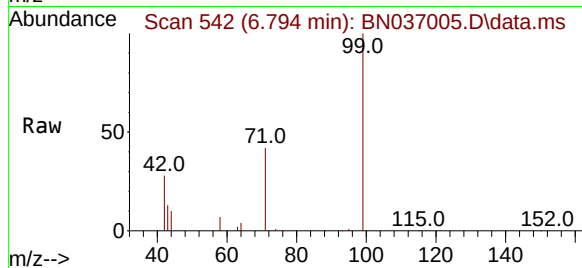




#5  
Phenol-d6  
Concen: 4.928 ng  
RT: 6.794 min Scan# 542  
Delta R.T. -0.001 min  
Lab File: BN037005.D  
Acq: 13 May 2025 21:17

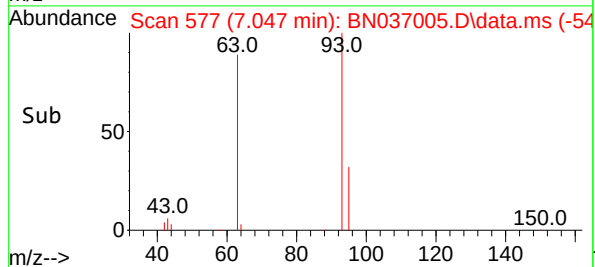
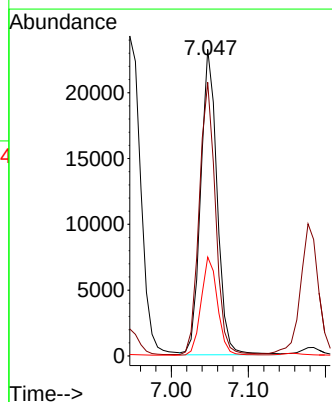
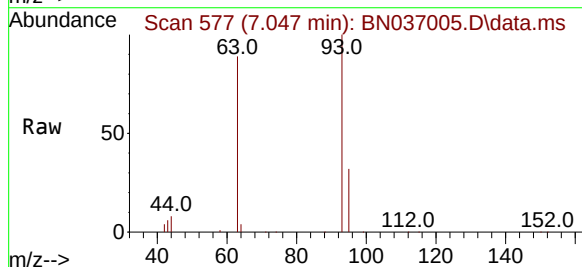
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

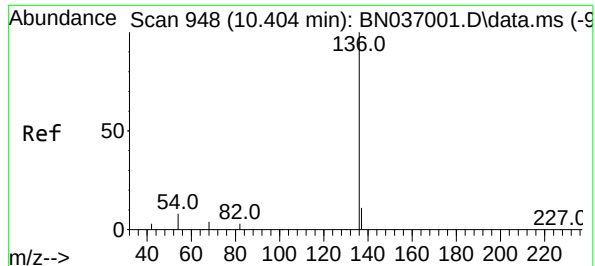
Tgt Ion: 99 Resp: 38800  
Ion Ratio Lower Upper  
99 100  
42 35.9 29.3 43.9  
71 45.2 35.7 53.5



#6  
bis(2-Chloroethyl)ether  
Concen: 4.755 ng  
RT: 7.047 min Scan# 577  
Delta R.T. -0.000 min  
Lab File: BN037005.D  
Acq: 13 May 2025 21:17

Tgt Ion: 93 Resp: 34458  
Ion Ratio Lower Upper  
93 100  
63 88.0 70.1 105.1  
95 32.1 26.2 39.2

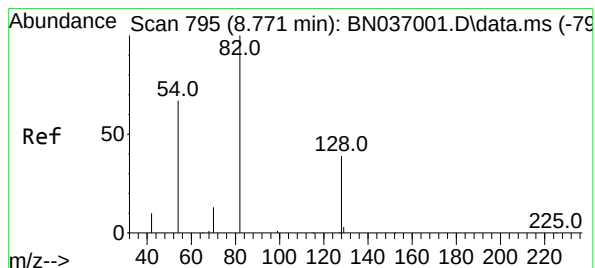
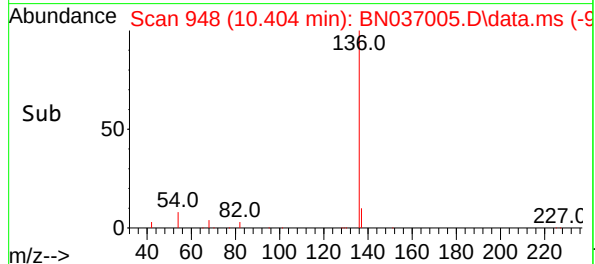
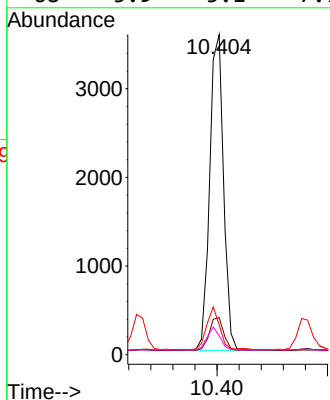
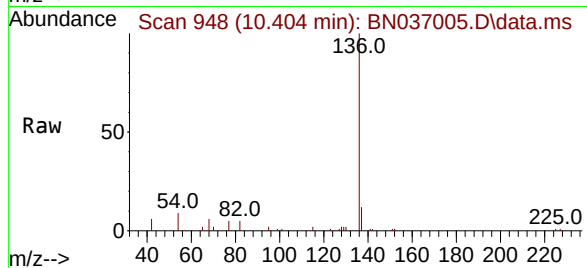




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.404 min Scan# 948  
Delta R.T. -0.000 min  
Lab File: BN037005.D  
Acq: 13 May 2025 21:17

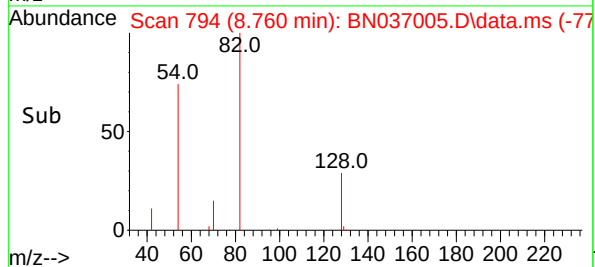
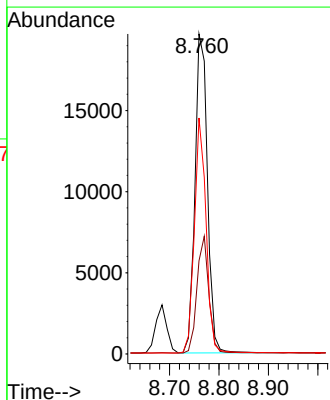
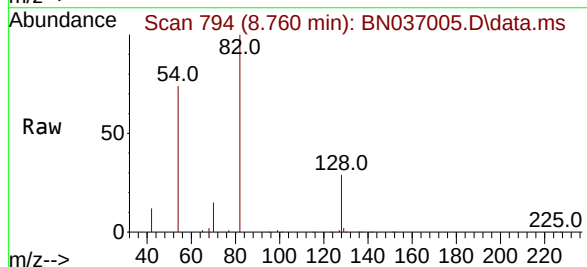
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

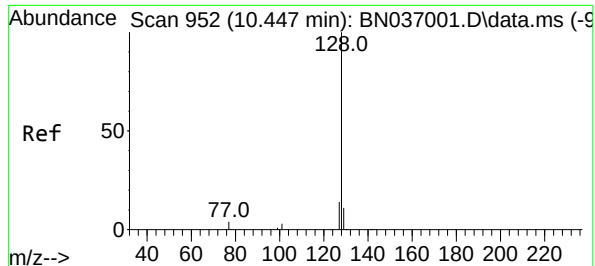
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 6211  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 11.6  | 10.4  | 15.6  |
| 54       | 9.3   | 8.5   | 12.7  |
| 68       | 5.9   | 5.1   | 7.7   |



#8  
Nitrobenzene-d5  
Concen: 5.077 ng  
RT: 8.760 min Scan# 794  
Delta R.T. -0.011 min  
Lab File: BN037005.D  
Acq: 13 May 2025 21:17

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 34333 |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 29.1  | 34.0  | 51.0# |
| 54       | 73.7  | 55.0  | 82.4  |





#9

Naphthalene

Concen: 4.926 ng

RT: 10.447 min Scan# 91

Delta R.T. -0.000 min

Lab File: BN037005.D

Acq: 13 May 2025 21:17

Instrument :

BNA\_N

ClientSampleId :

SSTDICC5.0

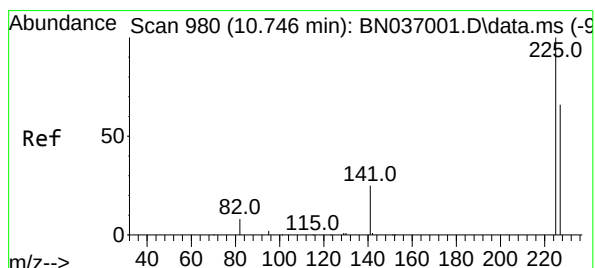
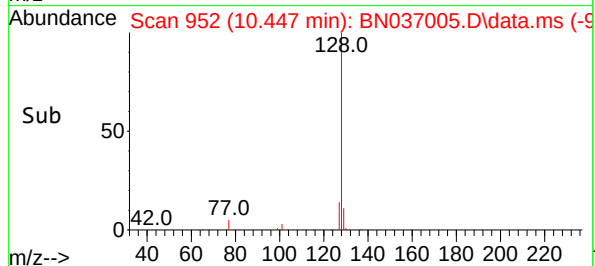
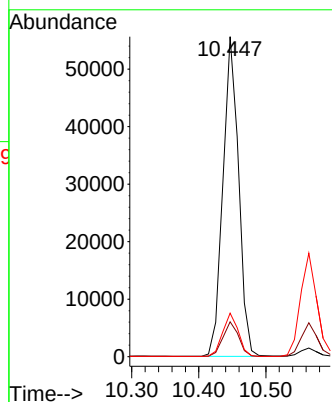
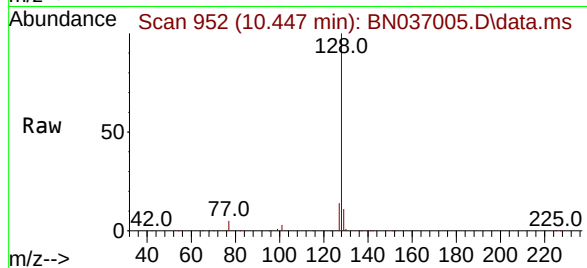
Tgt Ion:128 Resp: 90412

Ion Ratio Lower Upper

128 100

129 10.9 9.7 14.5

127 13.6 12.4 18.6



#10

Hexachlorobutadiene

Concen: 4.692 ng

RT: 10.745 min Scan# 980

Delta R.T. -0.000 min

Lab File: BN037005.D

Acq: 13 May 2025 21:17

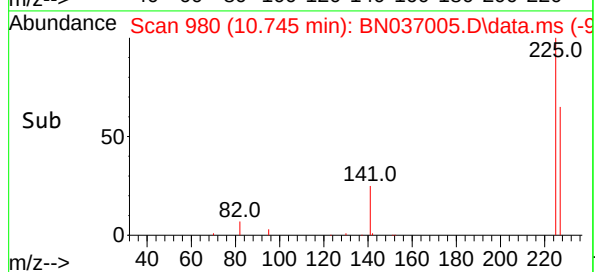
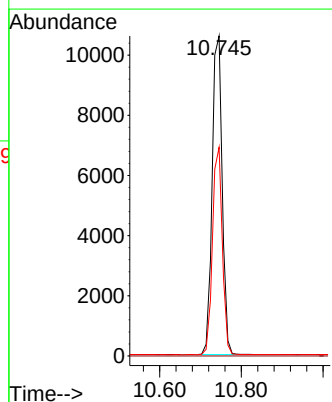
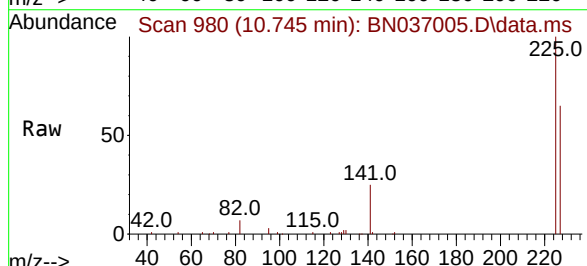
Tgt Ion:225 Resp: 18076

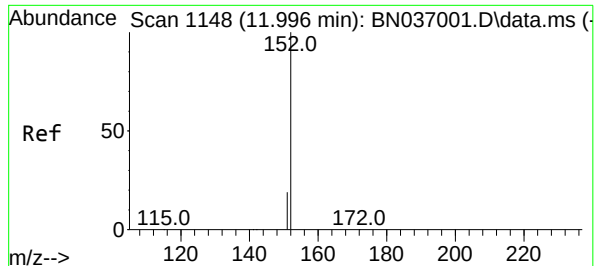
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 63.6 50.9 76.3

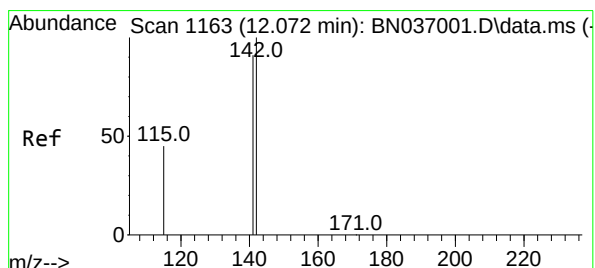
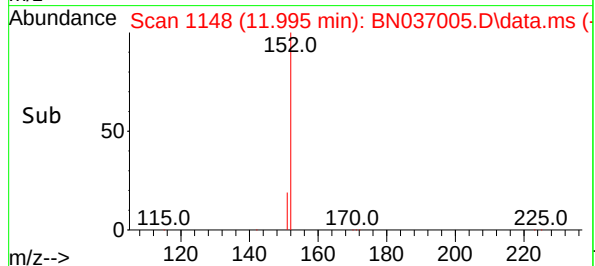
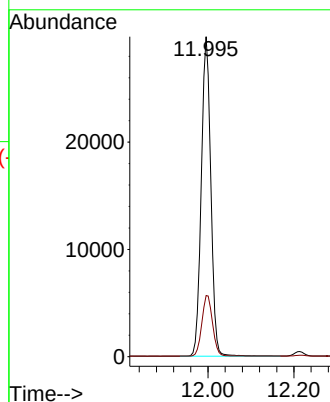
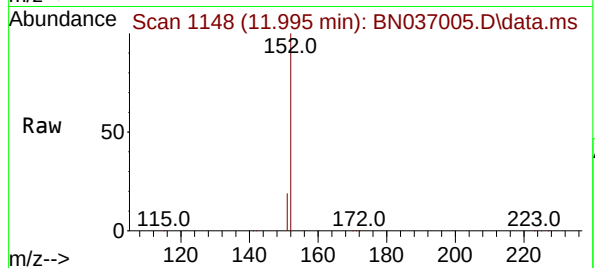




#11  
2-Methylnaphthalene-d10  
Concen: 5.225 ng  
RT: 11.995 min Scan# 1148  
Delta R.T. -0.000 min  
Lab File: BN037005.D  
Acq: 13 May 2025 21:17

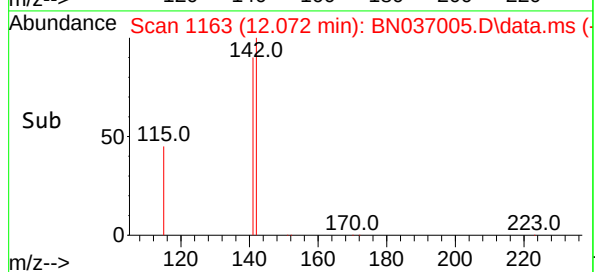
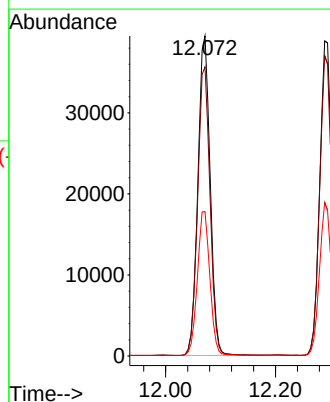
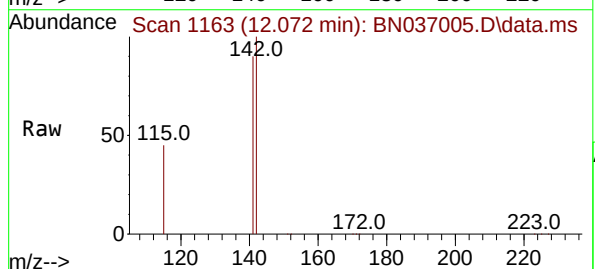
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

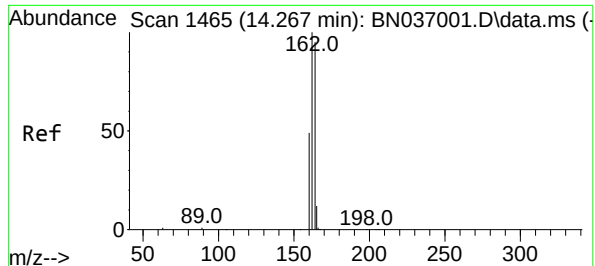
Tgt Ion:152 Resp: 45677  
Ion Ratio Lower Upper  
152 100  
151 21.3 17.5 26.3



#12  
2-Methylnaphthalene  
Concen: 5.199 ng  
RT: 12.072 min Scan# 1163  
Delta R.T. -0.000 min  
Lab File: BN037005.D  
Acq: 13 May 2025 21:17

Tgt Ion:142 Resp: 61370  
Ion Ratio Lower Upper  
142 100  
141 90.3 73.3 109.9  
115 45.1 38.4 57.6

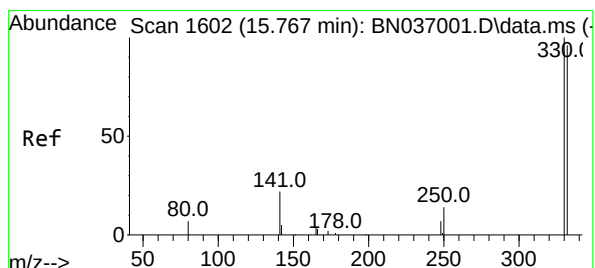
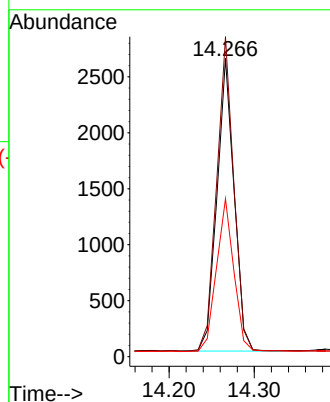
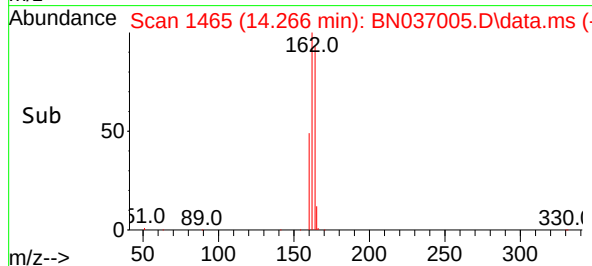
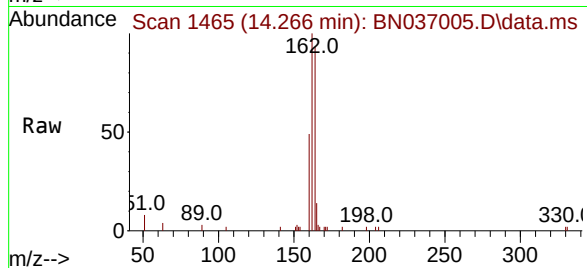




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.266 min Scan# 1465  
Delta R.T. -0.000 min  
Lab File: BN037005.D  
Acq: 13 May 2025 21:17

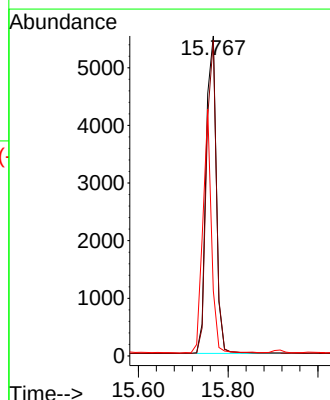
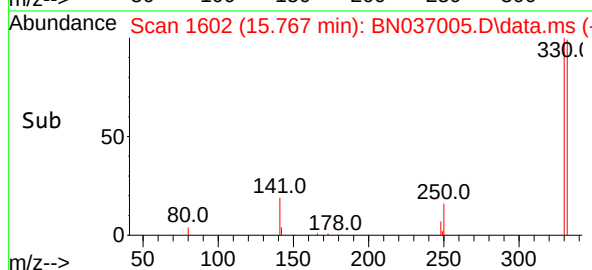
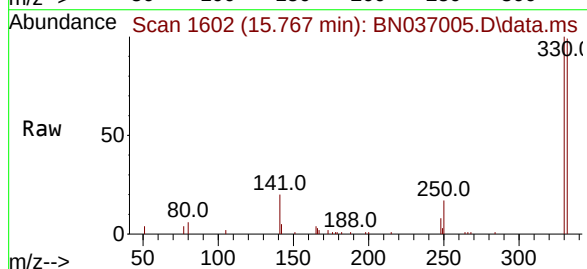
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

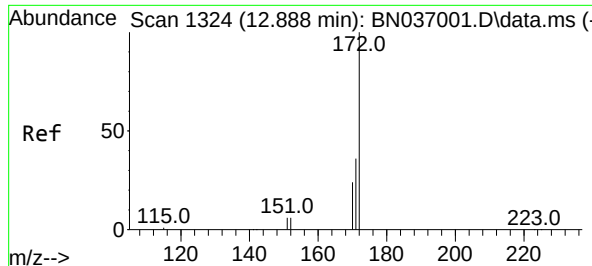
| Tgt Ion | 164   | Resp: | 3660  |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 164     | 100   |       |       |
| 162     | 107.2 | 84.2  | 126.4 |
| 160     | 52.9  | 42.6  | 63.8  |



#14  
2,4,6-Tribromophenol  
Concen: 5.383 ng  
RT: 15.767 min Scan# 1602  
Delta R.T. -0.000 min  
Lab File: BN037005.D  
Acq: 13 May 2025 21:17

| Tgt Ion | 330   | Resp: | 8654  |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 330     | 100   |       |       |
| 332     | 95.7  | 73.8  | 110.8 |
| 141     | 65.8  | 43.9  | 65.9  |





#15

2-Fluorobiphenyl

Concen: 4.932 ng

RT: 12.888 min Scan# 1324

Delta R.T. -0.000 min

Lab File: BN037005.D

Acq: 13 May 2025 21:17

Instrument :

BNA\_N

ClientSampleId :

SSTDICC5.0

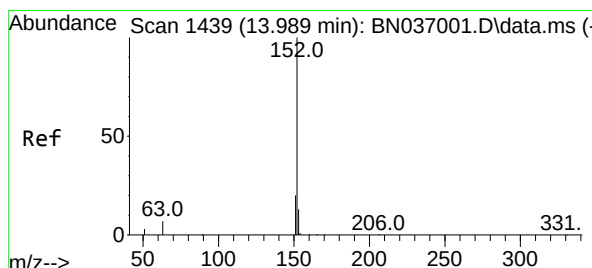
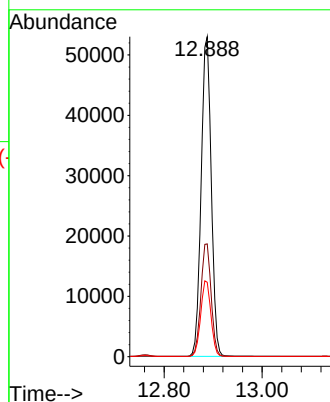
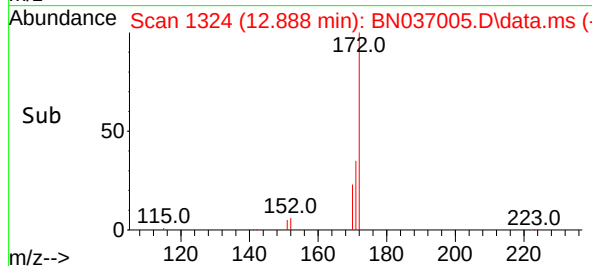
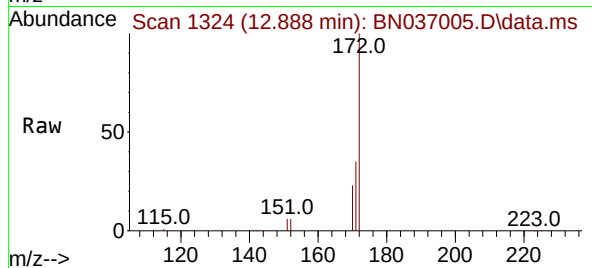
Tgt Ion:172 Resp: 82658

Ion Ratio Lower Upper

172 100

171 35.3 29.2 43.8

170 23.3 20.5 30.7



#16

Acenaphthylene

Concen: 5.328 ng

RT: 13.988 min Scan# 1439

Delta R.T. -0.000 min

Lab File: BN037005.D

Acq: 13 May 2025 21:17

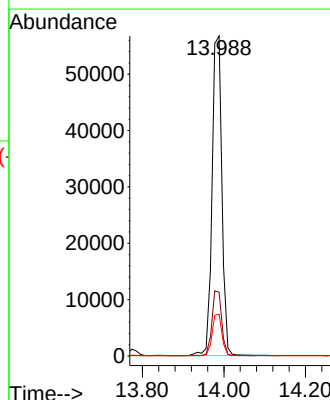
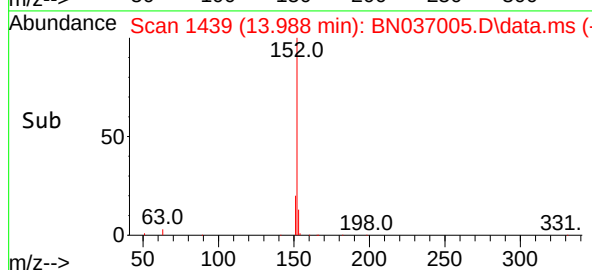
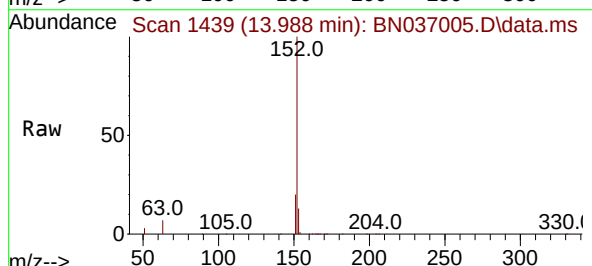
Tgt Ion:152 Resp: 94911

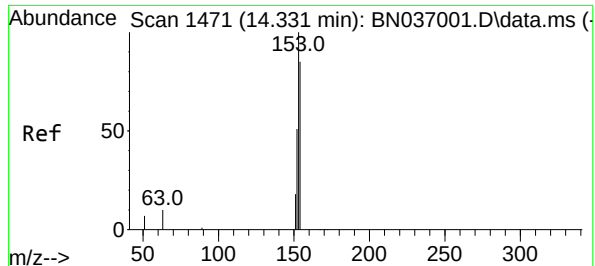
Ion Ratio Lower Upper

152 100

151 20.1 16.1 24.1

153 12.9 10.5 15.7

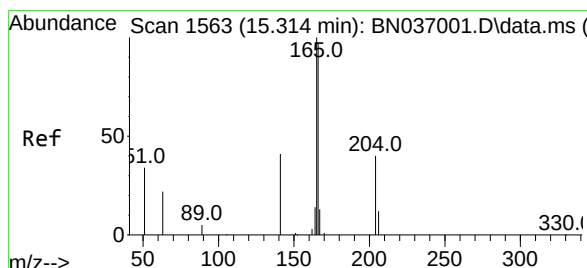
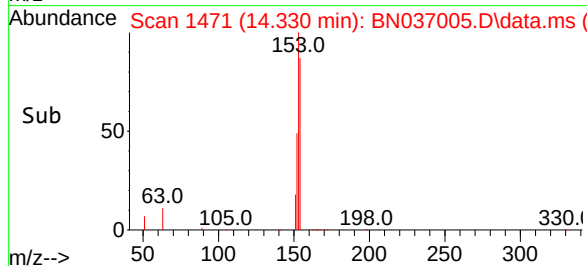
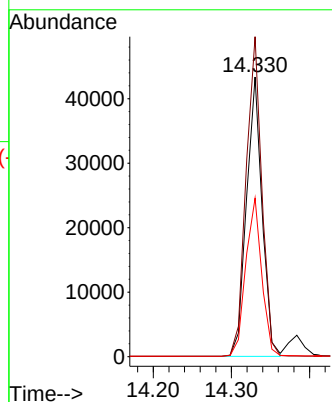
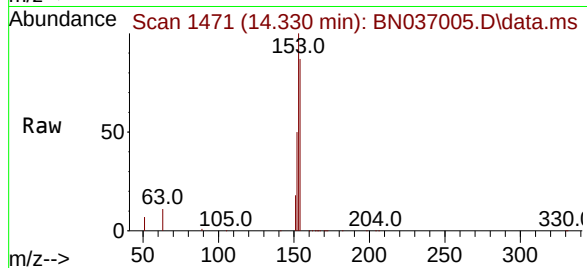




#17  
Acenaphthene  
Concen: 5.169 ng  
RT: 14.330 min Scan# 1471  
Delta R.T. -0.000 min  
Lab File: BN037005.D  
Acq: 13 May 2025 21:17

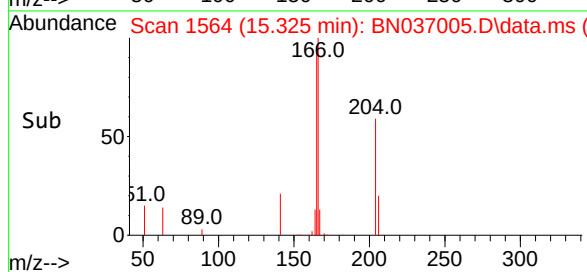
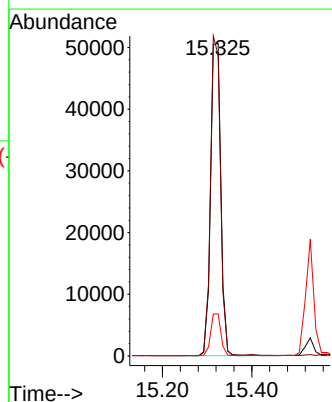
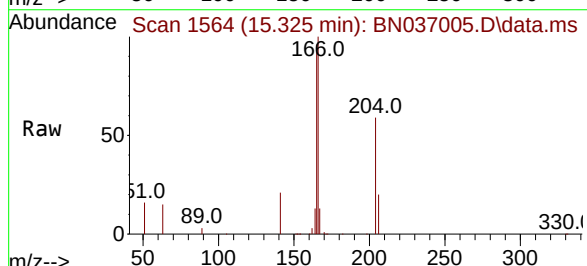
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

Tgt Ion:154 Resp: 60171  
Ion Ratio Lower Upper  
154 100  
153 115.6 94.2 141.4  
152 58.3 49.4 74.0

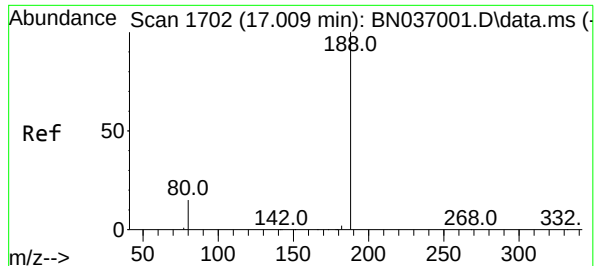


#18  
Fluorene  
Concen: 5.250 ng  
RT: 15.325 min Scan# 1564  
Delta R.T. 0.010 min  
Lab File: BN037005.D  
Acq: 13 May 2025 21:17

Tgt Ion:166 Resp: 80175  
Ion Ratio Lower Upper  
166 100  
165 99.3 80.6 120.8  
167 13.3 10.6 16.0







#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.008 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN037005.D

Acq: 13 May 2025 21:17

Instrument :

BNA\_N

ClientSampleId :

SSTDICC5.0

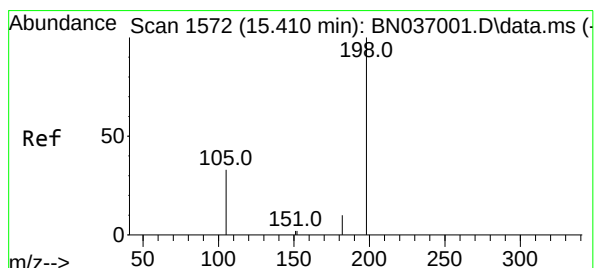
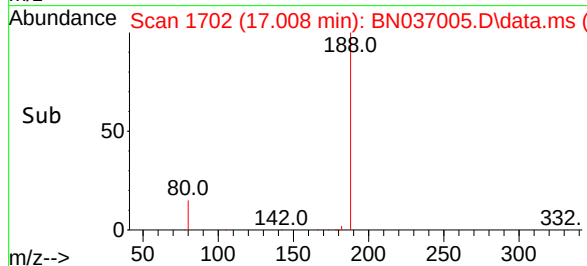
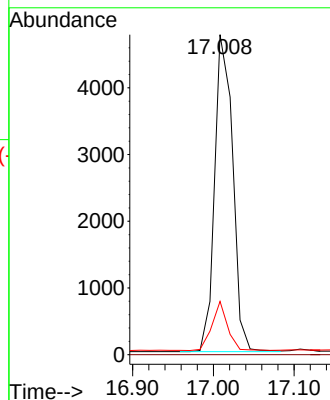
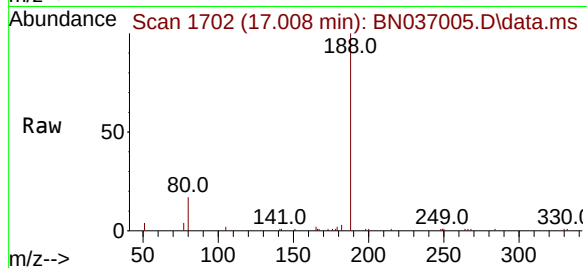
Tgt Ion:188 Resp: 7377

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 16.7 13.4 20.0



#20

4,6-Dinitro-2-methylphenol

Concen: 5.020 ng

RT: 15.399 min Scan# 1571

Delta R.T. -0.011 min

Lab File: BN037005.D

Acq: 13 May 2025 21:17

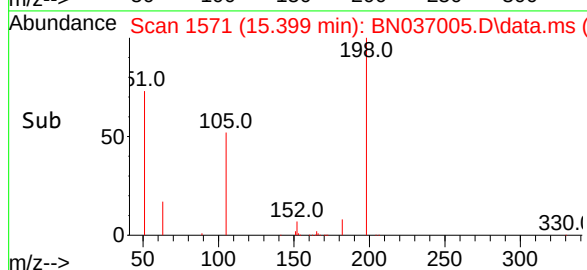
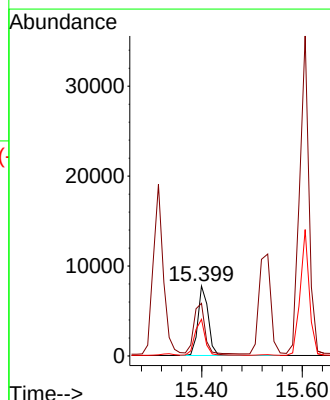
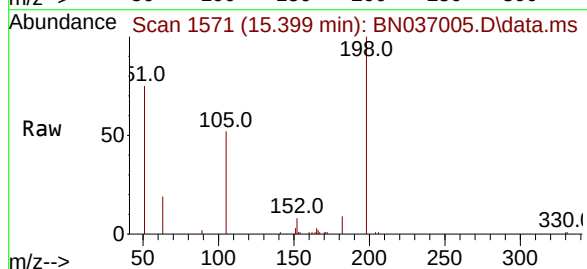
Tgt Ion:198 Resp: 11401

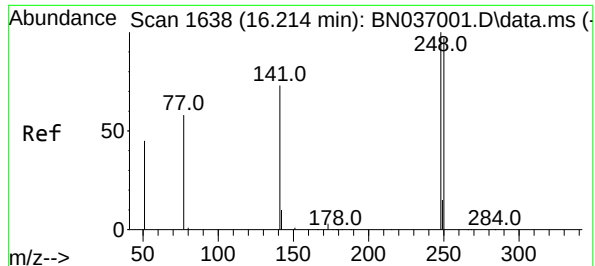
Ion Ratio Lower Upper

198 100

51 75.2 87.8 131.6#

105 52.3 44.2 66.4

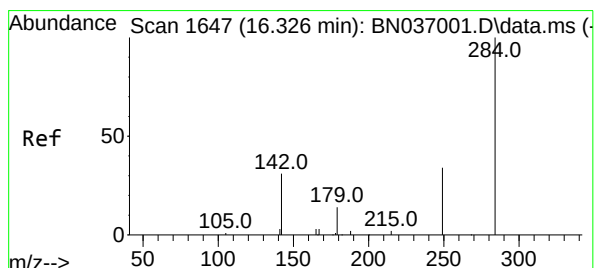
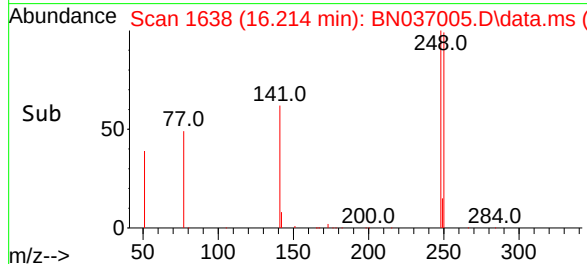
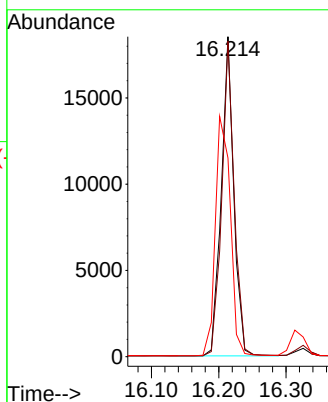
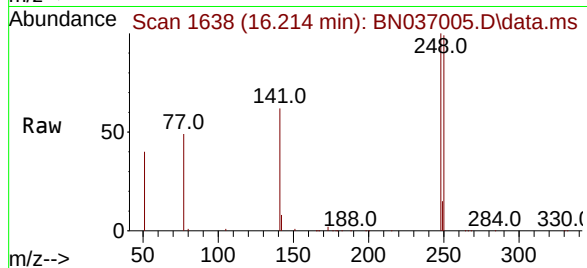




#21  
4-Bromophenyl-phenylether  
Concen: 5.124 ng  
RT: 16.214 min Scan# 1638  
Delta R.T. -0.000 min  
Lab File: BN037005.D  
Acq: 13 May 2025 21:17

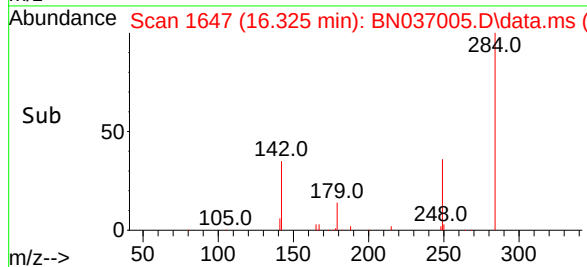
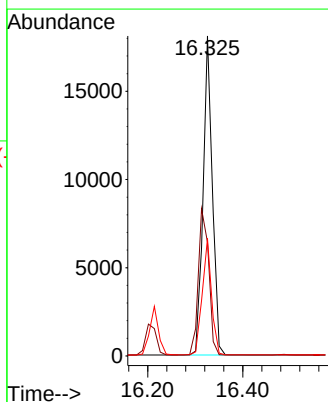
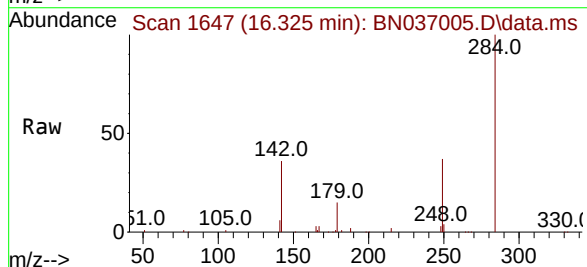
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

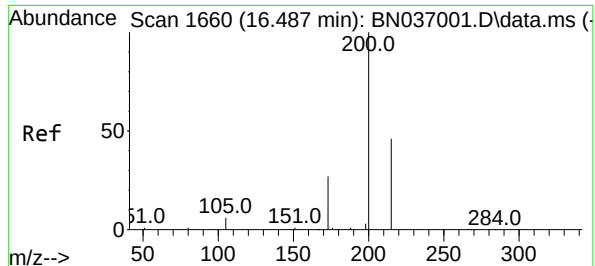
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 248     | 100   |       |       |
| 250     | 98.6  | 78.1  | 117.1 |
| 141     | 62.1  | 59.7  | 89.5  |



#22  
Hexachlorobenzene  
Concen: 4.931 ng  
RT: 16.325 min Scan# 1647  
Delta R.T. -0.000 min  
Lab File: BN037005.D  
Acq: 13 May 2025 21:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 284     | 100   |       |       |
| 142     | 51.5  | 41.2  | 61.8  |
| 249     | 36.6  | 28.7  | 43.1  |

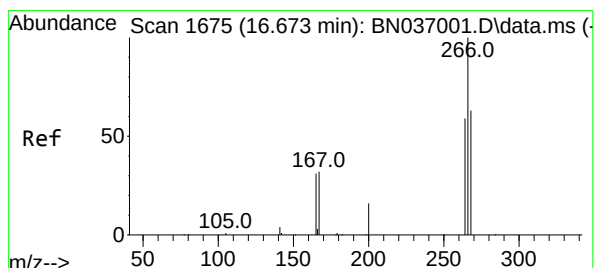
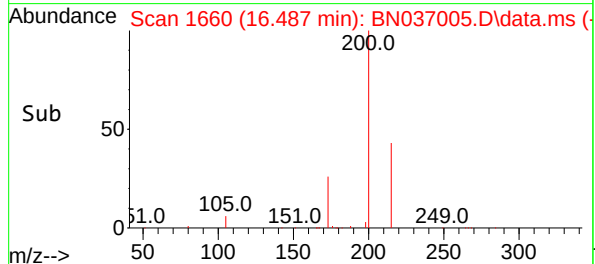
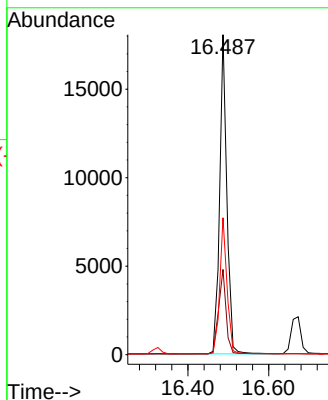
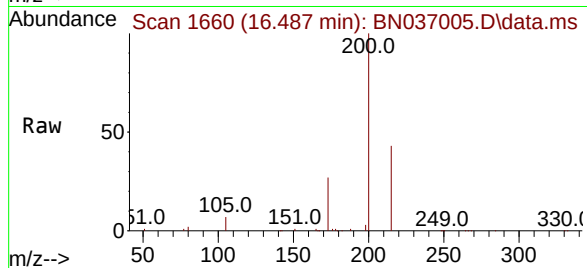




#23  
Atrazine  
Concen: 5.483 ng  
RT: 16.487 min Scan# 1660  
Delta R.T. -0.000 min  
Lab File: BN037005.D  
Acq: 13 May 2025 21:17

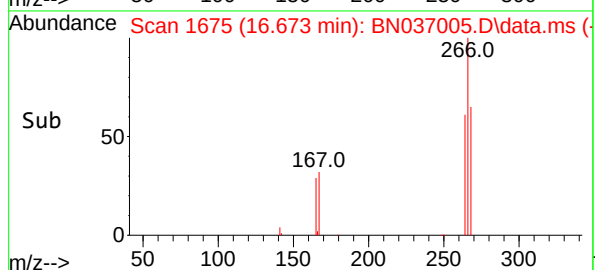
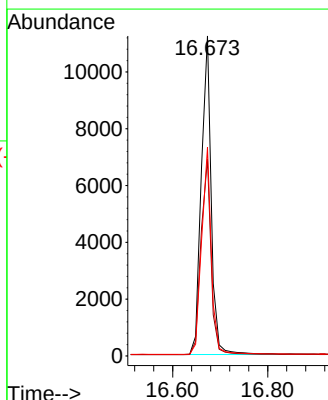
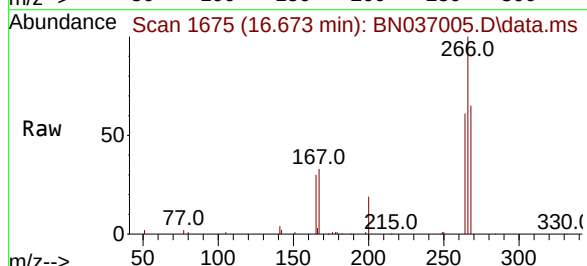
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

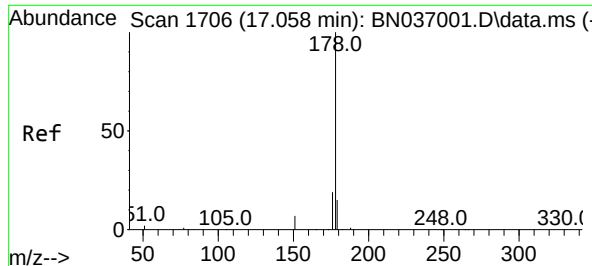
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 200     | 100   |       |       |
| 173     | 26.6  | 25.2  | 37.8  |
| 215     | 42.8  | 39.3  | 58.9  |



#24  
Pentachlorophenol  
Concen: 5.883 ng  
RT: 16.673 min Scan# 1675  
Delta R.T. -0.000 min  
Lab File: BN037005.D  
Acq: 13 May 2025 21:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 266     | 100   |       |       |
| 264     | 62.8  | 47.9  | 71.9  |
| 268     | 64.0  | 50.0  | 75.0  |

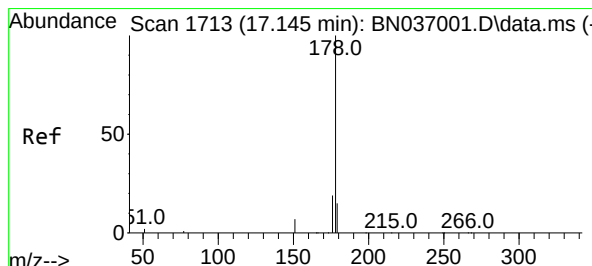
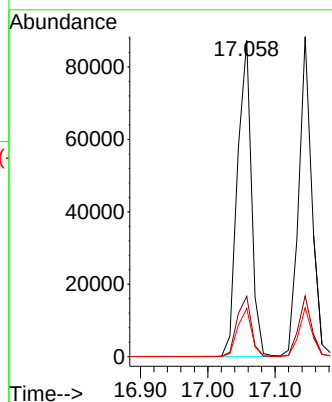
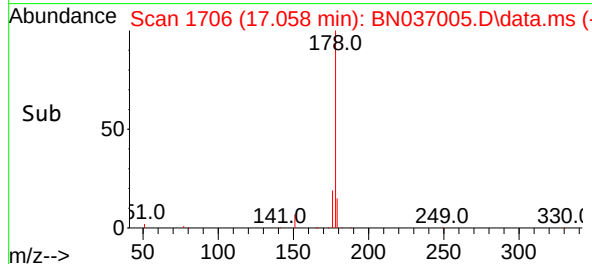
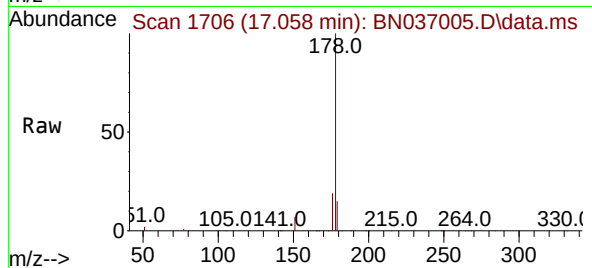




#25  
Phenanthrene  
Concen: 5.205 ng  
RT: 17.058 min Scan# 1706  
Delta R.T. -0.000 min  
Lab File: BN037005.D  
Acq: 13 May 2025 21:17

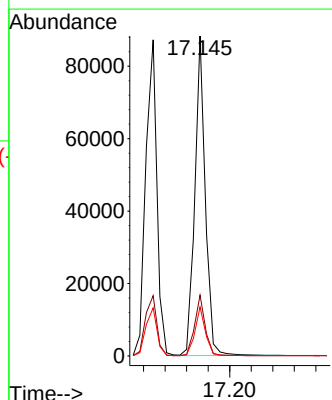
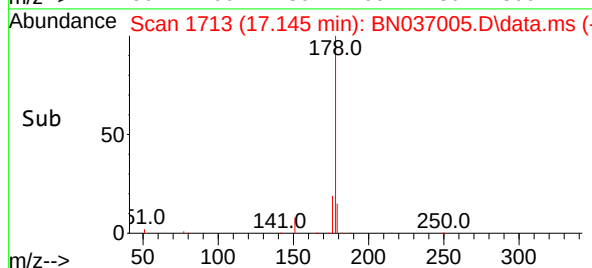
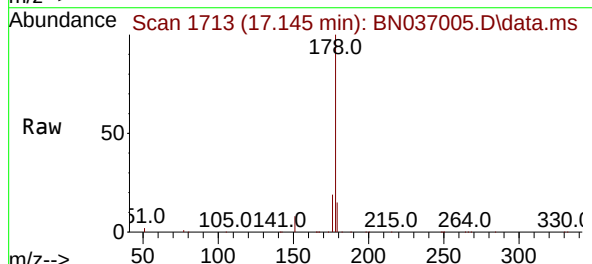
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

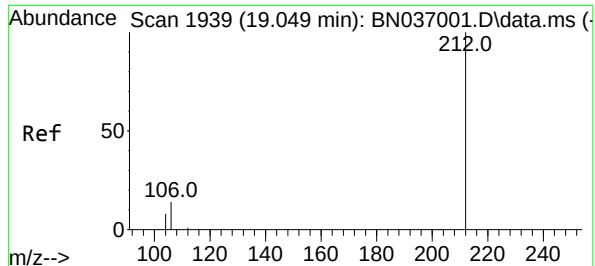
Tgt Ion:178 Resp: 125493  
Ion Ratio Lower Upper  
178 100  
176 19.6 15.7 23.5  
179 15.2 12.2 18.2



#26  
Anthracene  
Concen: 5.464 ng  
RT: 17.145 min Scan# 1713  
Delta R.T. -0.000 min  
Lab File: BN037005.D  
Acq: 13 May 2025 21:17

Tgt Ion:178 Resp: 119884  
Ion Ratio Lower Upper  
178 100  
176 19.0 15.0 22.6  
179 15.2 12.3 18.5





#27

Fluoranthene-d10

Concen: 5.372 ng

RT: 19.049 min Scan# 1939

Delta R.T. -0.000 min

Lab File: BN037005.D

Acq: 13 May 2025 21:17

Instrument :

BNA\_N

ClientSampleId :

SSTDICC5.0

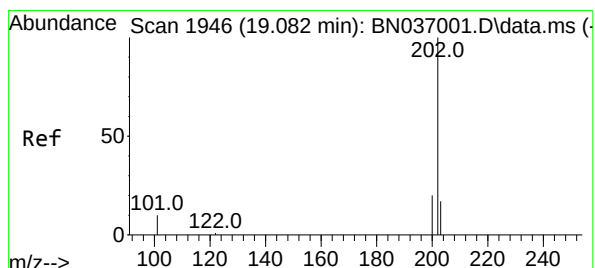
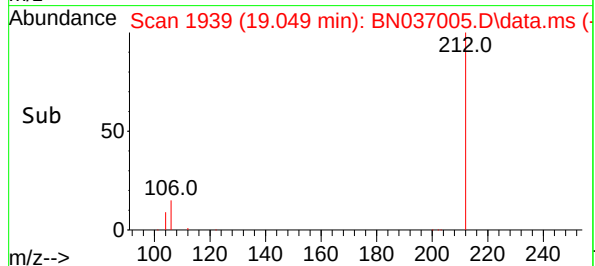
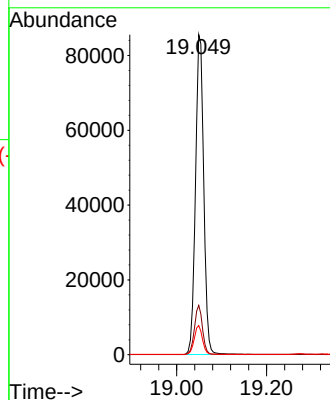
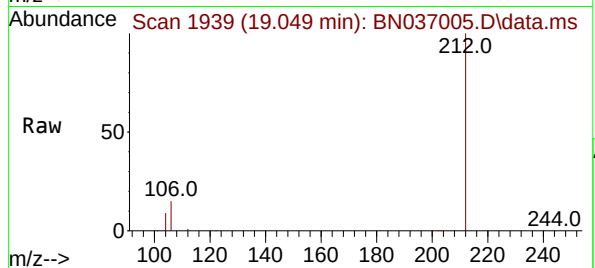
Tgt Ion:212 Resp: 108672

Ion Ratio Lower Upper

212 100

106 15.0 11.3 16.9

104 8.9 6.7 10.1



#28

Fluoranthene

Concen: 5.421 ng

RT: 19.081 min Scan# 1946

Delta R.T. -0.000 min

Lab File: BN037005.D

Acq: 13 May 2025 21:17

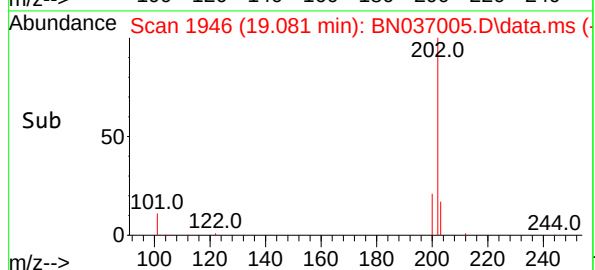
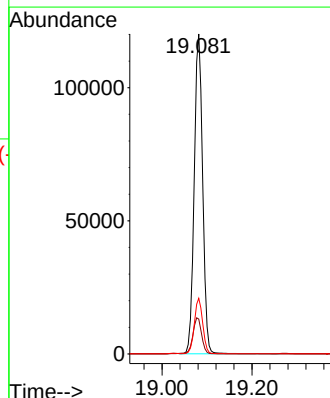
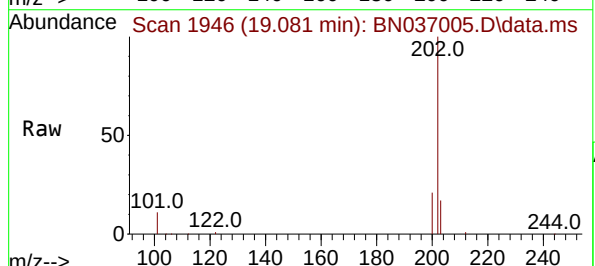
Tgt Ion:202 Resp: 156131

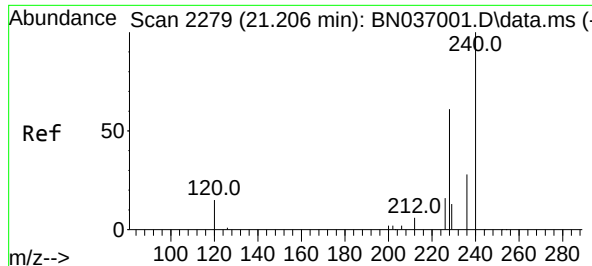
Ion Ratio Lower Upper

202 100

101 11.7 8.9 13.3

203 17.1 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.206 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037005.D

Acq: 13 May 2025 21:17

Instrument :

BNA\_N

ClientSampleId :

SSTDICC5.0

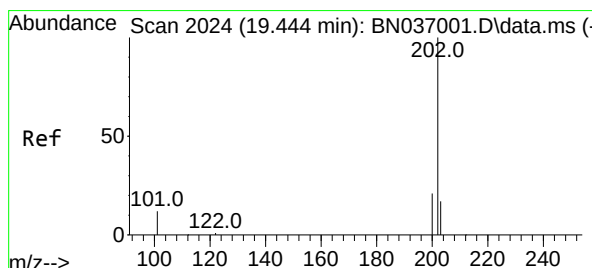
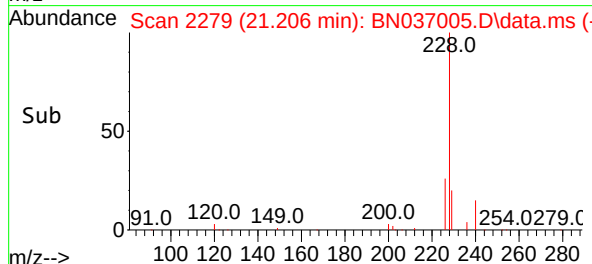
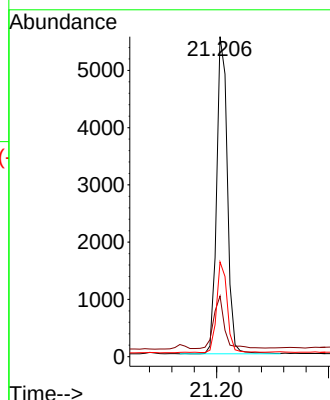
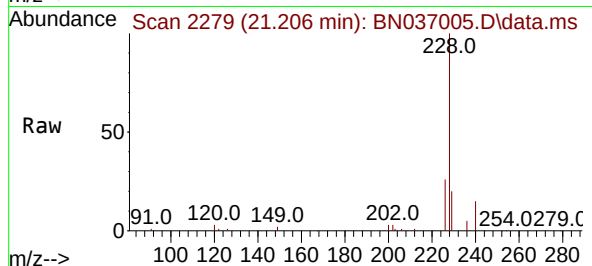
Tgt Ion:240 Resp: 7435

Ion Ratio Lower Upper

240 100

120 19.0 15.1 22.7

236 29.6 24.0 36.0



#30

Pyrene

Concen: 5.001 ng

RT: 19.444 min Scan# 2024

Delta R.T. -0.000 min

Lab File: BN037005.D

Acq: 13 May 2025 21:17

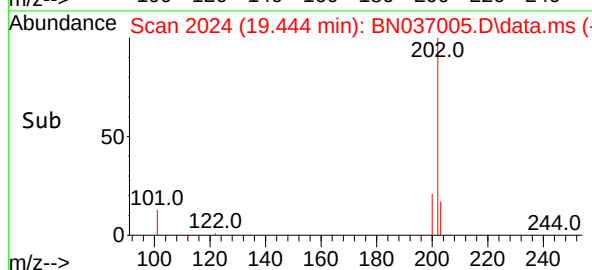
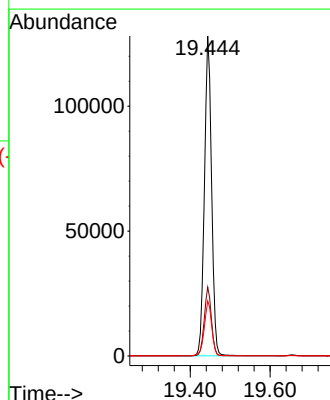
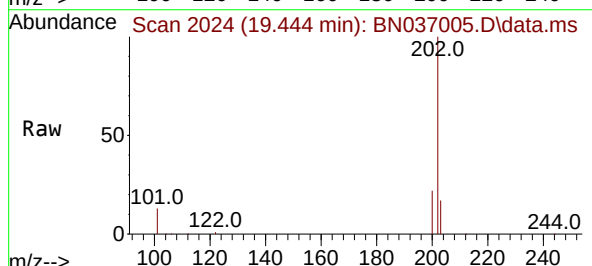
Tgt Ion:202 Resp: 159039

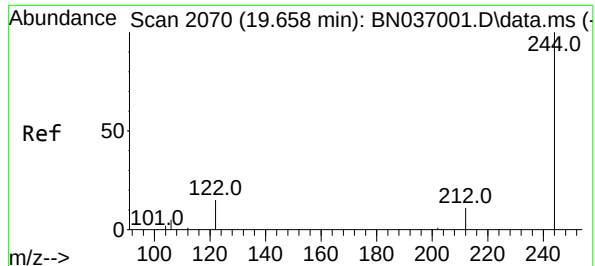
Ion Ratio Lower Upper

202 100

200 21.5 17.1 25.7

203 17.7 14.2 21.4

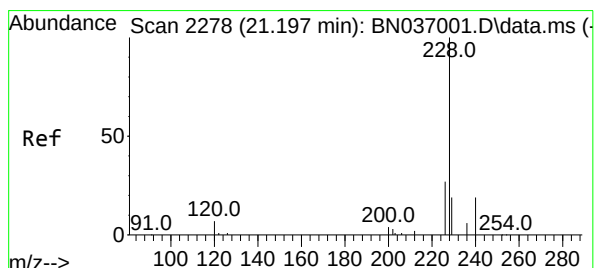
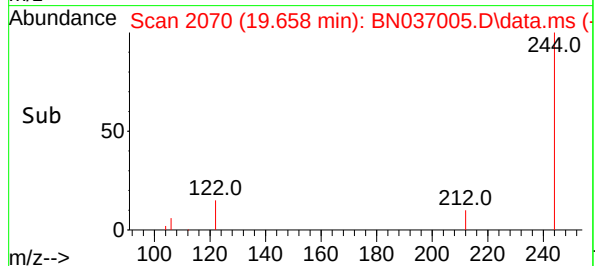
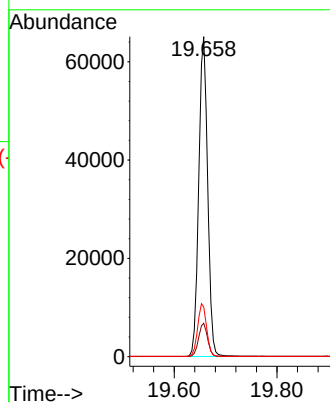
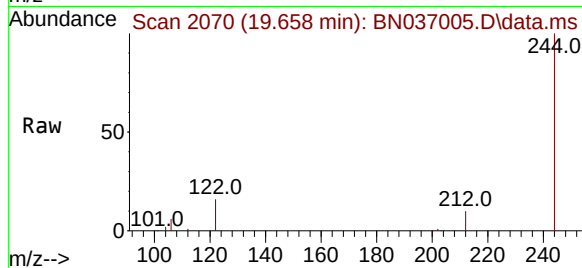




#31  
Terphenyl-d14  
Concen: 4.953 ng  
RT: 19.658 min Scan# 2070  
Delta R.T. -0.000 min  
Lab File: BN037005.D  
Acq: 13 May 2025 21:17

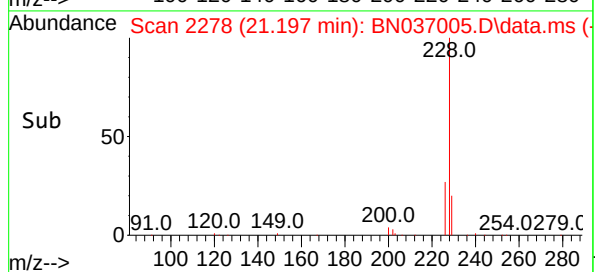
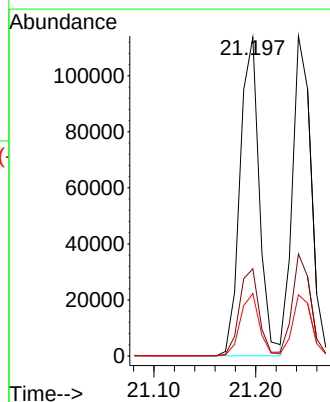
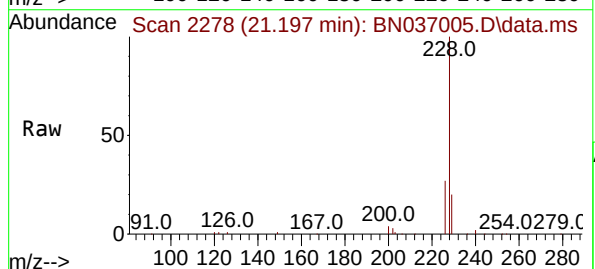
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

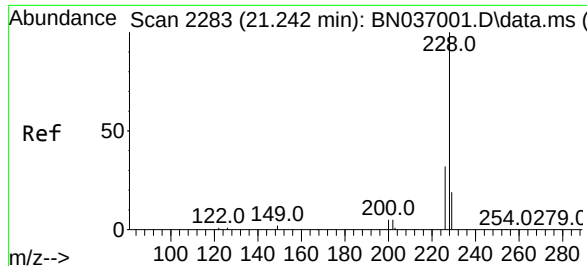
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 10.4  | 9.7   | 14.5  |
| 122     | 15.6  | 13.4  | 20.0  |



#32  
Benzo(a)anthracene  
Concen: 5.341 ng  
RT: 21.197 min Scan# 2278  
Delta R.T. -0.000 min  
Lab File: BN037005.D  
Acq: 13 May 2025 21:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 27.4  | 22.2  | 33.4  |
| 229     | 19.6  | 16.0  | 24.0  |





#33

Chrysene

Concen: 4.946 ng

RT: 21.242 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037005.D

Acq: 13 May 2025 21:17

Instrument :

BNA\_N

ClientSampleId :

SSTDICC5.0

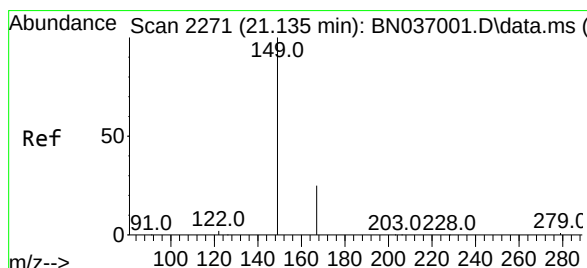
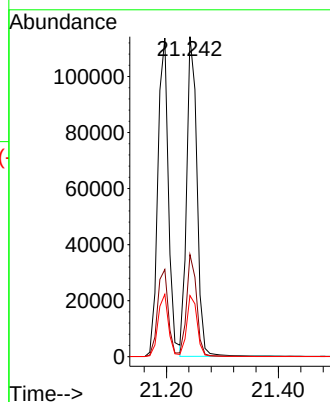
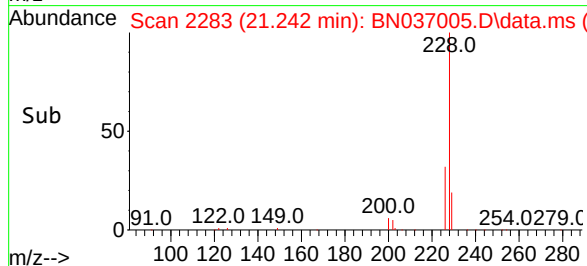
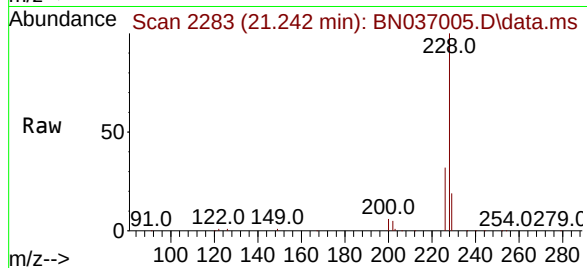
Tgt Ion:228 Resp: 146457

Ion Ratio Lower Upper

228 100

226 31.9 26.3 39.5

229 19.1 16.2 24.2



#34

Bis(2-ethylhexyl)phthalate

Concen: 5.445 ng

RT: 21.134 min Scan# 2271

Delta R.T. -0.000 min

Lab File: BN037005.D

Acq: 13 May 2025 21:17

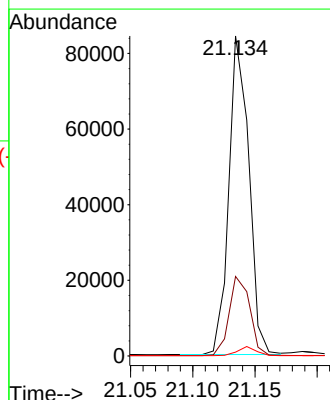
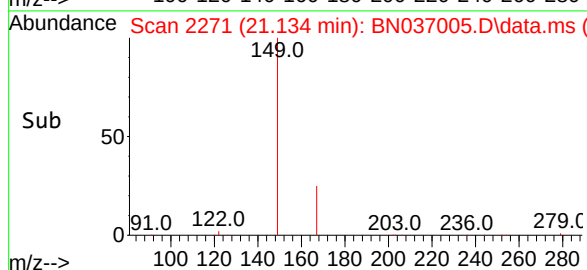
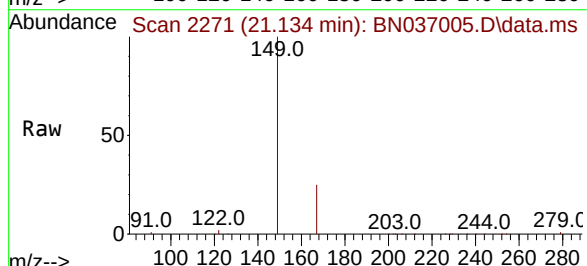
Tgt Ion:149 Resp: 93938

Ion Ratio Lower Upper

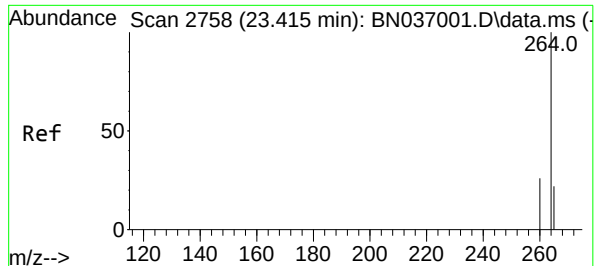
149 100

167 25.9 20.6 30.8

279 2.6 2.6 3.8







#35

Perylene-d12

Concen: 0.400 ng

RT: 23.412 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037005.D

Acq: 13 May 2025 21:17

Instrument :

BNA\_N

ClientSampleId :

SSTDICC5.0

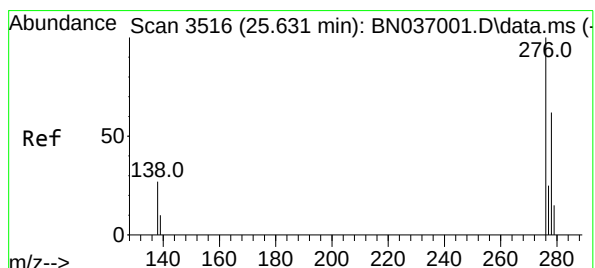
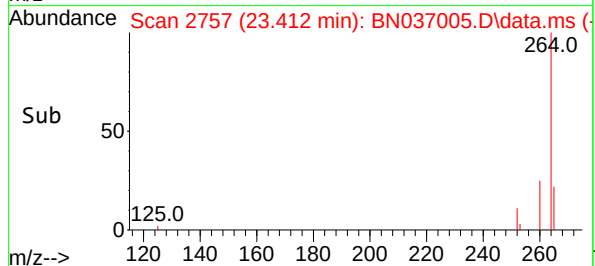
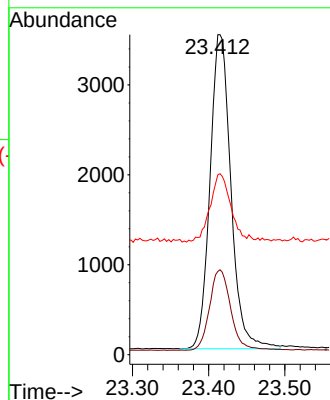
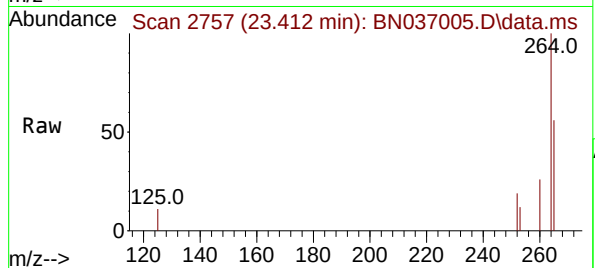
Tgt Ion:264 Resp: 6657

Ion Ratio Lower Upper

264 100

260 26.0 21.9 32.9

265 56.2 51.6 77.4



#36

Indeno(1,2,3-cd)pyrene

Concen: 5.141 ng

RT: 25.628 min Scan# 3515

Delta R.T. -0.003 min

Lab File: BN037005.D

Acq: 13 May 2025 21:17

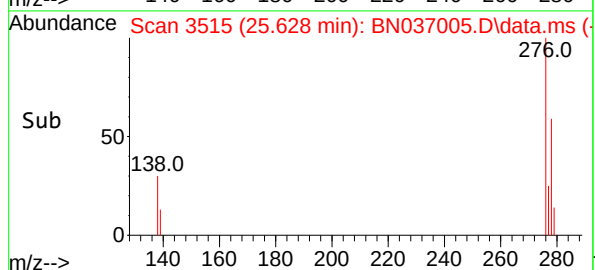
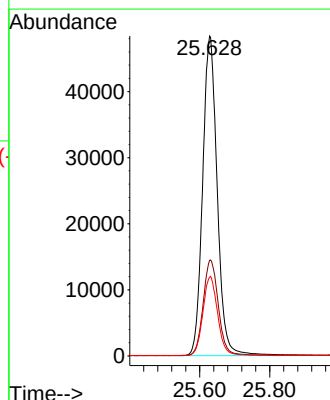
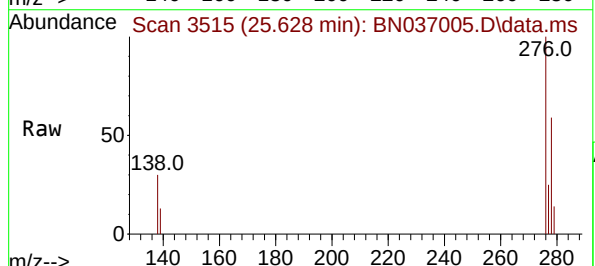
Tgt Ion:276 Resp: 139772

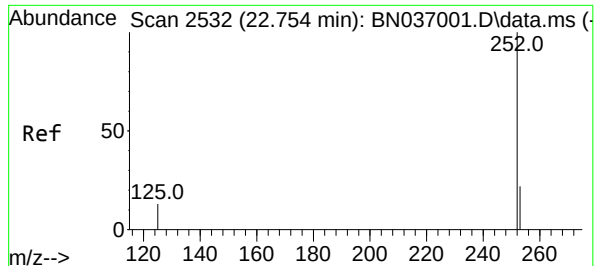
Ion Ratio Lower Upper

276 100

138 31.4 22.7 34.1

277 25.1 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 5.323 ng

RT: 22.754 min Scan# 2532

Delta R.T. -0.000 min

Lab File: BN037005.D

Acq: 13 May 2025 21:17

Instrument :

BNA\_N

ClientSampleId :

SSTDICC5.0

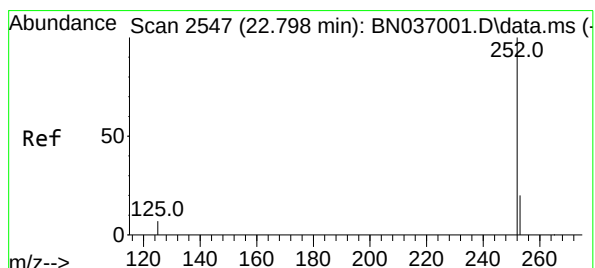
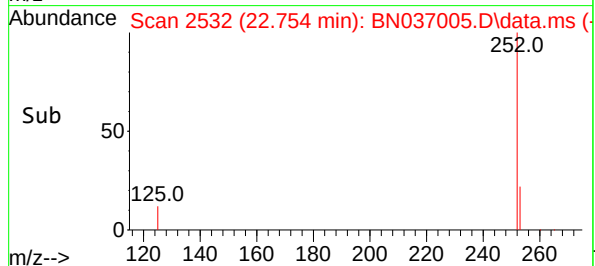
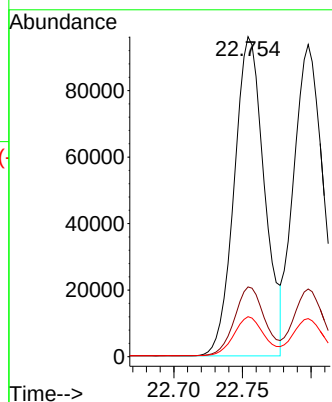
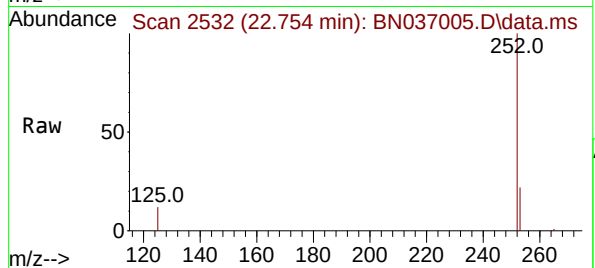
Tgt Ion:252 Resp: 146896

Ion Ratio Lower Upper

252 100

253 21.8 21.8 32.6

125 12.5 14.6 21.8#



#38

Benzo(k)fluoranthene

Concen: 5.244 ng

RT: 22.798 min Scan# 2547

Delta R.T. -0.000 min

Lab File: BN037005.D

Acq: 13 May 2025 21:17

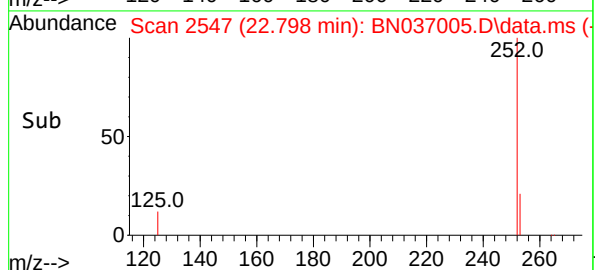
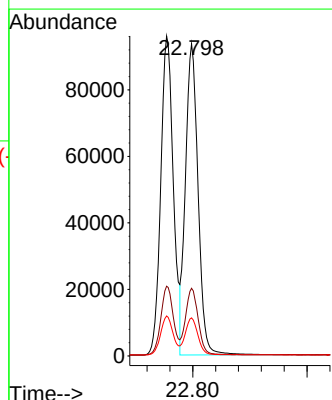
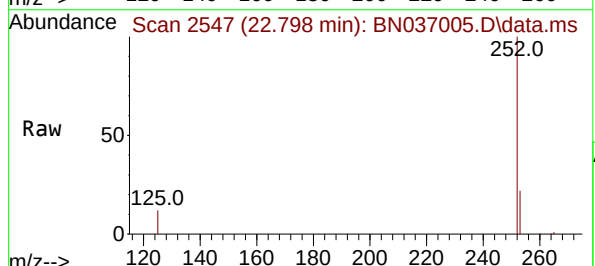
Tgt Ion:252 Resp: 143001

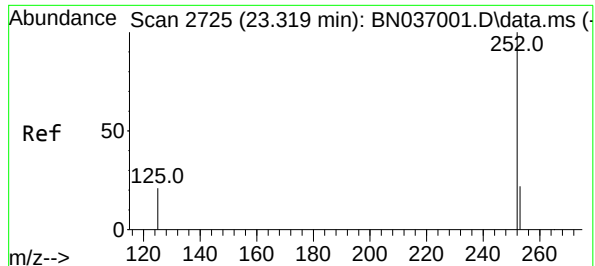
Ion Ratio Lower Upper

252 100

253 21.7 21.4 32.2

125 12.2 13.0 19.4#





#39

Benzo(a)pyrene

Concen: 5.280 ng

RT: 23.318 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037005.D

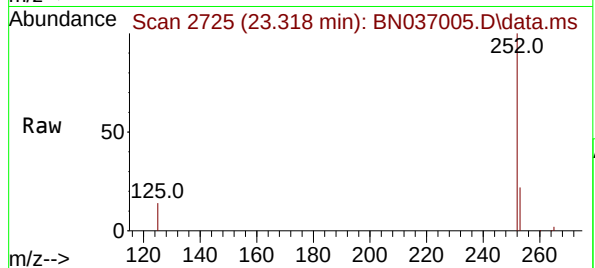
Acq: 13 May 2025 21:17

Instrument :

BNA\_N

ClientSampleId :

SSTDICC5.0



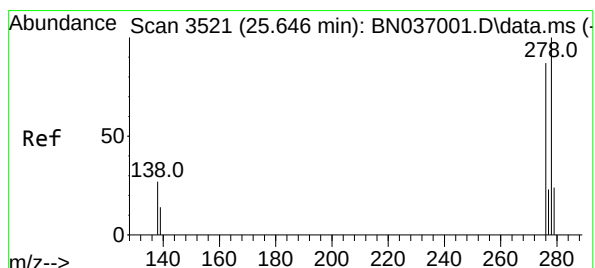
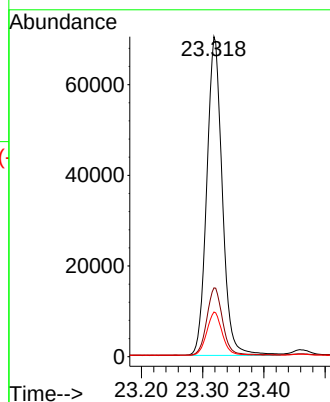
Tgt Ion:252 Resp: 123679

Ion Ratio Lower Upper

252 100

253 21.5 23.8 35.6#

125 13.9 21.8 32.6#



#40

Dibenzo(a,h)anthracene

Concen: 5.241 ng

RT: 25.643 min Scan# 3520

Delta R.T. -0.003 min

Lab File: BN037005.D

Acq: 13 May 2025 21:17

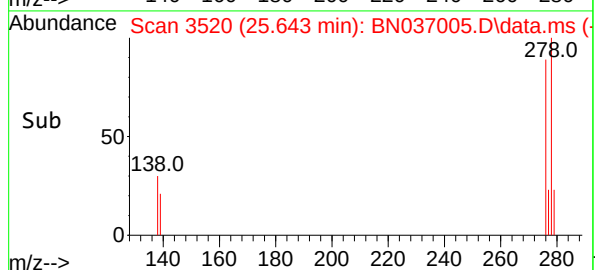
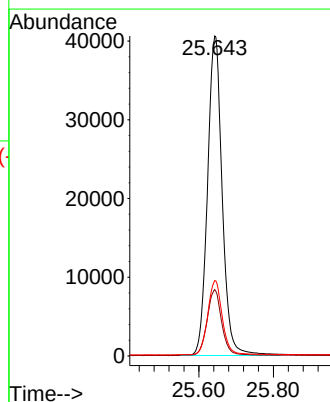
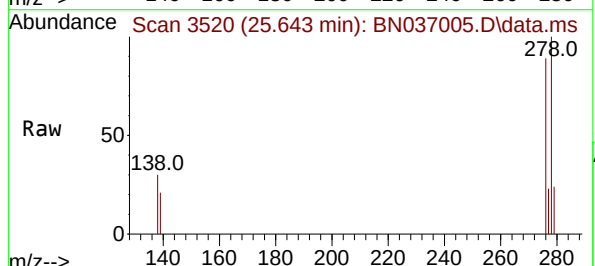
Tgt Ion:278 Resp: 111001

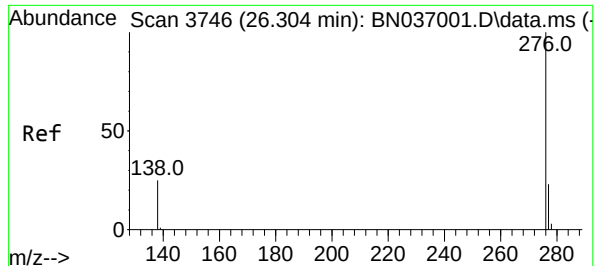
Ion Ratio Lower Upper

278 100

139 20.8 17.4 26.0

279 23.6 24.6 37.0#





#41

Benzo(g,h,i)perylene

Concen: 4.975 ng

RT: 26.309 min Scan# 31

Delta R.T. 0.005 min

Lab File: BN037005.D

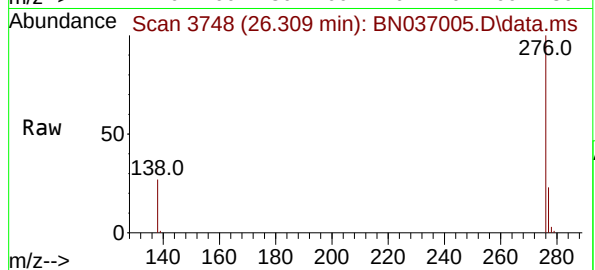
Acq: 13 May 2025 21:17

Instrument :

BNA\_N

ClientSampleId :

SSTDICC5.0



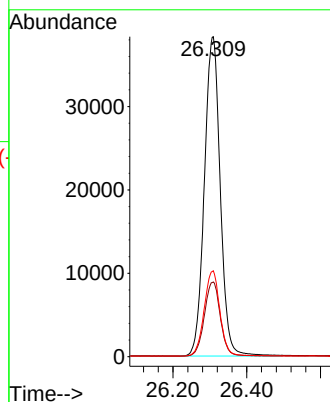
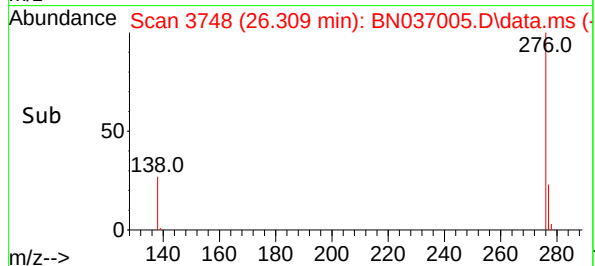
Tgt Ion:276 Resp: 114459

Ion Ratio Lower Upper

276 100

277 23.4 20.2 30.4

138 26.9 22.0 33.0



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN051425\  
 Data File : BN037006.D  
 Acq On : 13 May 2025 22:29  
 Operator : RC/JU  
 Sample : SSTDICV0.4  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 ICVBN051424

Quant Time: May 14 11:28:08 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN051425.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 14 11:26:32 2025  
 Response via : Initial Calibration

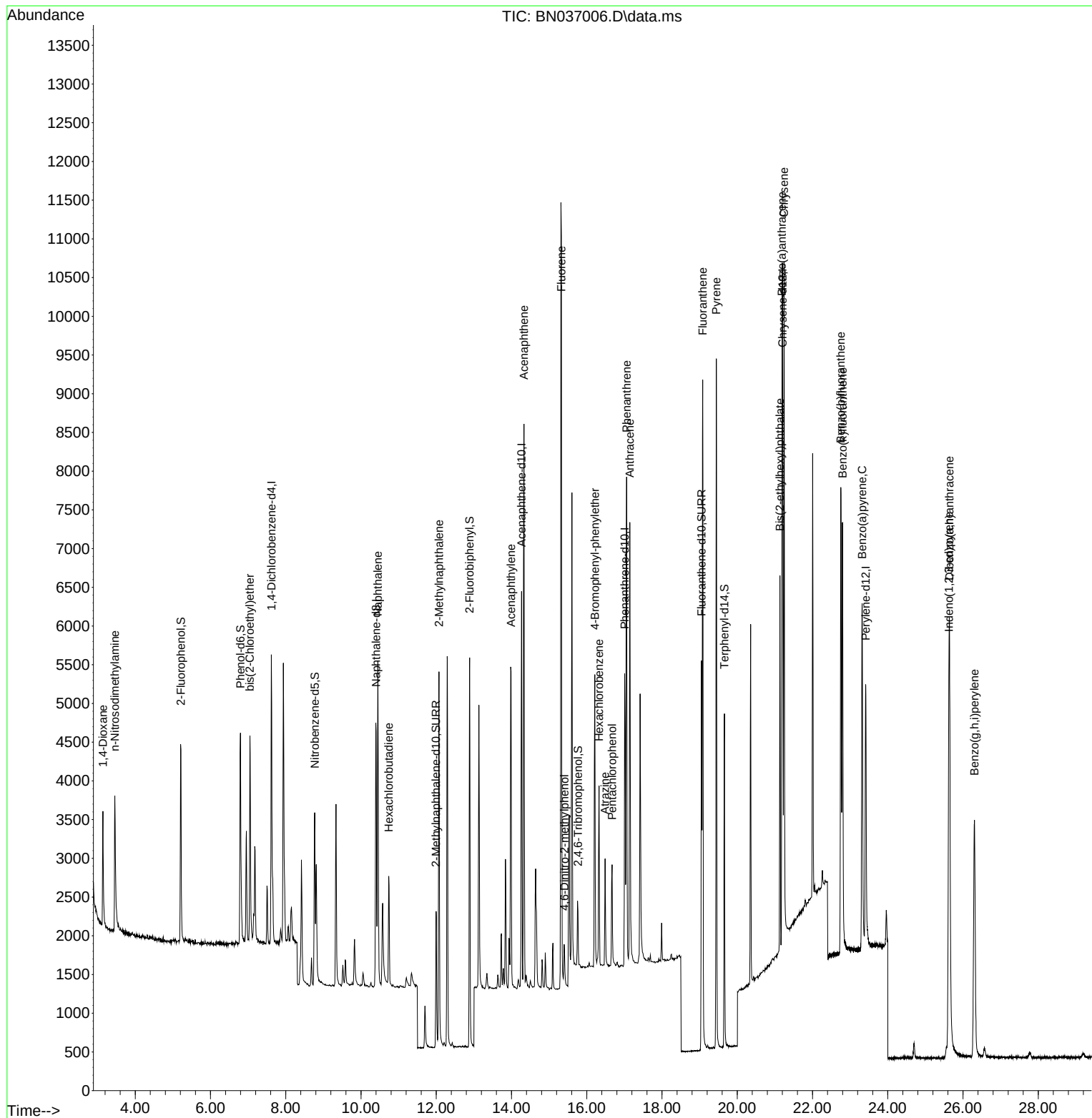
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.618  | 152  | 1738     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.404 | 136  | 4666     | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 14.267 | 164  | 2720     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 17.009 | 188  | 5359     | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 21.206 | 240  | 4597     | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.415 | 264  | 4432     | 0.400 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.213  | 112  | 1928     | 0.423 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.795  | 99   | 2325     | 0.408 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.771  | 82   | 1928     | 0.379 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.996 | 152  | 2642     | 0.402 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.767 | 330  | 474      | 0.397 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.888 | 172  | 5054     | 0.406 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 19.049 | 212  | 5648     | 0.384 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.658 | 244  | 4080     | 0.415 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| Target Compounds              |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.140  | 88   | 868      | 0.407 | ng    | 95       |
| 3) n-Nitrosodimethylamine     | 3.458  | 42   | 1788     | 0.390 | ng    | # 92     |
| 6) bis(2-Chloroethyl)ether    | 7.048  | 93   | 2010     | 0.383 | ng    | 100      |
| 9) Naphthalene                | 10.447 | 128  | 5367     | 0.389 | ng    | 99       |
| 10) Hexachlorobutadiene       | 10.735 | 225  | 1150     | 0.397 | ng    | # 99     |
| 12) 2-Methylnaphthalene       | 12.072 | 142  | 3513     | 0.396 | ng    | 98       |
| 16) Acenaphthylene            | 13.989 | 152  | 5019     | 0.379 | ng    | 100      |
| 17) Acenaphthene              | 14.331 | 154  | 3352     | 0.387 | ng    | 100      |
| 18) Fluorene                  | 15.325 | 166  | 4398     | 0.388 | ng    | 100      |
| 20) 4,6-Dinitro-2-methylph... | 15.411 | 198  | 410      | 0.396 | ng    | 88       |
| 21) 4-Bromophenyl-phenylether | 16.214 | 248  | 1326     | 0.392 | ng    | 98       |
| 22) Hexachlorobenzene         | 16.326 | 284  | 1488     | 0.411 | ng    | 98       |
| 23) Atrazine                  | 16.487 | 200  | 1120     | 0.379 | ng    | 98       |
| 24) Pentachlorophenol         | 16.673 | 266  | 672      | 0.336 | ng    | 93       |
| 25) Phenanthrene              | 17.058 | 178  | 6852     | 0.391 | ng    | 99       |
| 26) Anthracene                | 17.145 | 178  | 6126     | 0.384 | ng    | 99       |
| 28) Fluoranthene              | 19.082 | 202  | 7940     | 0.380 | ng    | 99       |
| 30) Pyrene                    | 19.444 | 202  | 8093     | 0.412 | ng    | 100      |
| 32) Benzo(a)anthracene        | 21.189 | 228  | 6824     | 0.394 | ng    | 98       |
| 33) Chrysene                  | 21.242 | 228  | 7298     | 0.399 | ng    | 98       |
| 34) Bis(2-ethylhexyl)phtha... | 21.135 | 149  | 4120     | 0.387 | ng    | 99       |
| 36) Indeno(1,2,3-cd)pyrene    | 25.623 | 276  | 7358     | 0.407 | ng    | 98       |
| 37) Benzo(b)fluoranthene      | 22.752 | 252  | 7184     | 0.391 | ng    | 99       |
| 38) Benzo(k)fluoranthene      | 22.798 | 252  | 7438     | 0.410 | ng    | 99       |
| 39) Benzo(a)pyrene            | 23.319 | 252  | 6167     | 0.395 | ng    | 98       |
| 40) Dibenzo(a,h)anthracene    | 25.640 | 278  | 5621     | 0.399 | ng    | 98       |
| 41) Benzo(g,h,i)perylene      | 26.304 | 276  | 6268     | 0.409 | ng    | 99       |
| -----                         |        |      |          |       |       |          |

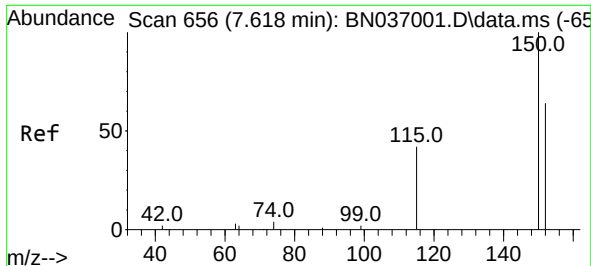
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN051425\  
 Data File : BN037006.D  
 Acq On : 13 May 2025 22:29  
 Operator : RC/JU  
 Sample : SSTDICV0.4  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 ICVBN051424

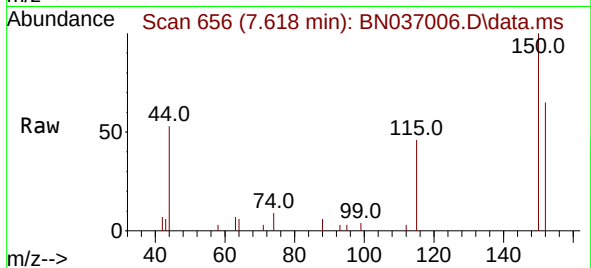
Quant Time: May 14 11:28:08 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN051425.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 14 11:26:32 2025  
 Response via : Initial Calibration



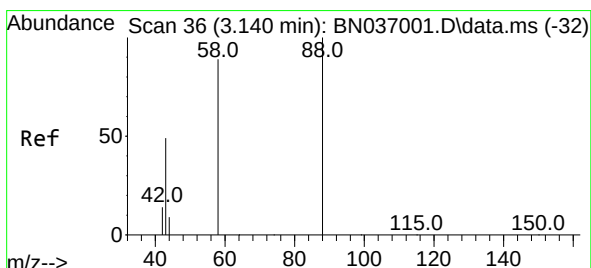
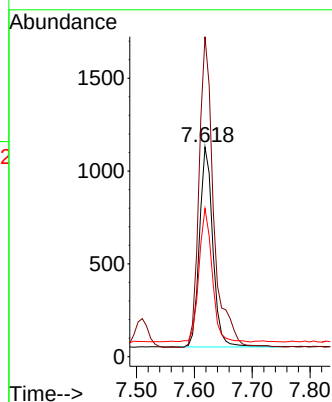
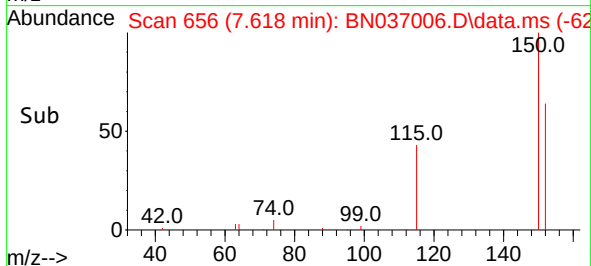


#1  
 1,4-Dichlorobenzene-d4  
 Concen: 0.400 ng  
 RT: 7.618 min Scan# 61  
 Delta R.T. 0.000 min  
 Lab File: BN037006.D  
 Acq: 13 May 2025 22:29

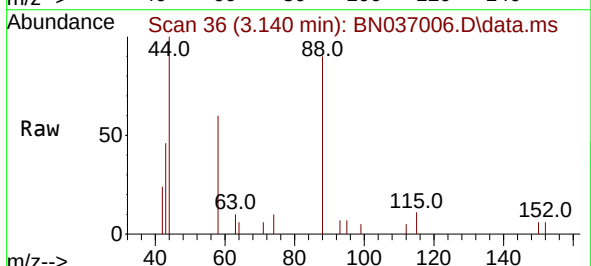
Instrument :  
 BNA\_N  
 ClientSampleId :  
 ICVBN051424



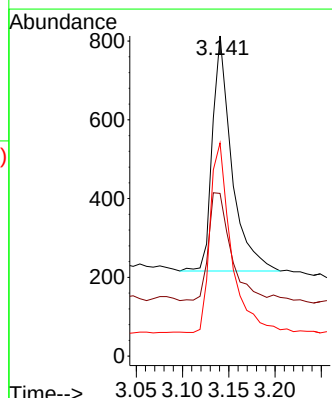
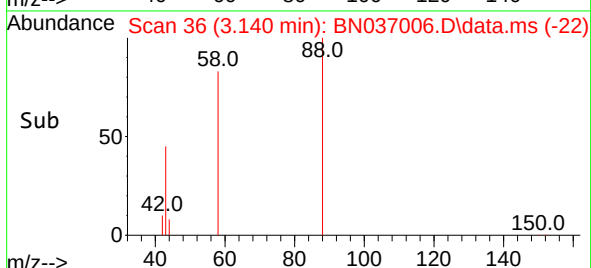
Tgt Ion:152 Resp: 1738  
 Ion Ratio Lower Upper  
 152 100  
 150 152.7 123.9 185.9  
 115 70.8 55.8 83.8

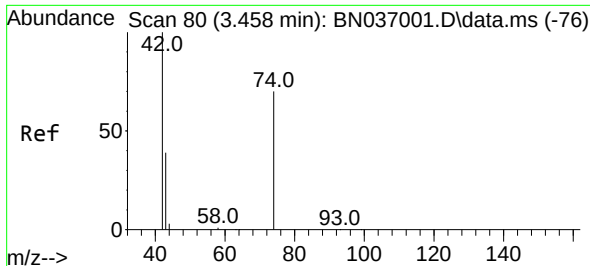


#2  
 1,4-Dioxane  
 Concen: 0.407 ng  
 RT: 3.140 min Scan# 36  
 Delta R.T. 0.000 min  
 Lab File: BN037006.D  
 Acq: 13 May 2025 22:29



Tgt Ion: 88 Resp: 868  
 Ion Ratio Lower Upper  
 88 100  
 43 53.6 37.4 56.0  
 58 87.7 68.8 103.2

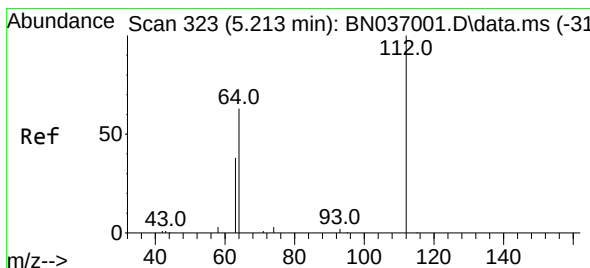
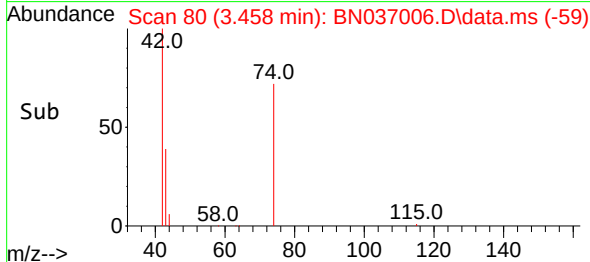
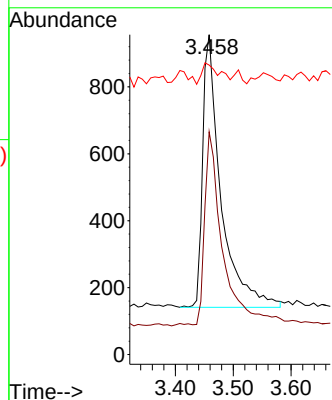
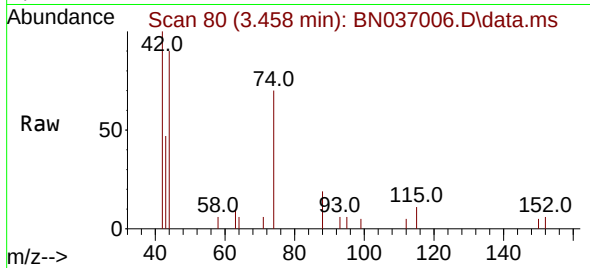




#3  
 n-Nitrosodimethylamine  
 Concen: 0.390 ng  
 RT: 3.458 min Scan# 80  
 Delta R.T. 0.000 min  
 Lab File: BN037006.D  
 Acq: 13 May 2025 22:29

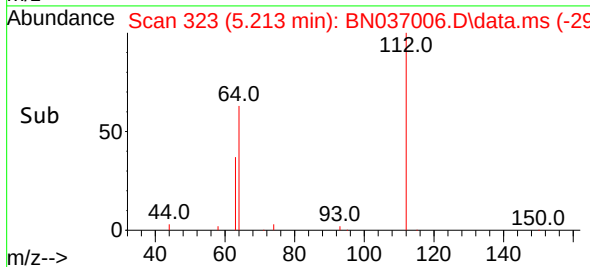
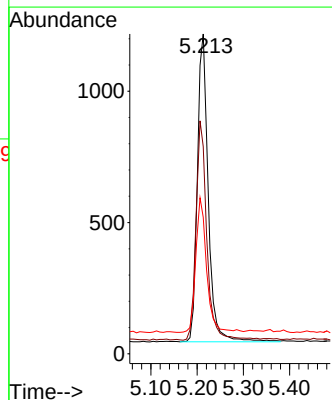
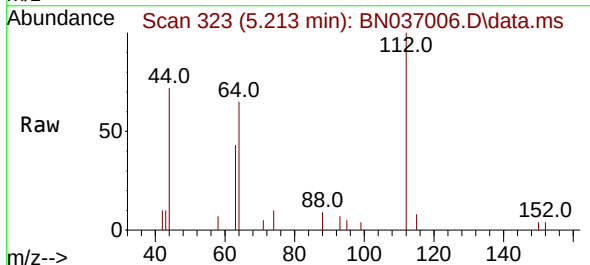
Instrument :  
 BNA\_N  
 ClientSampleId :  
 ICVBN051424

Tgt Ion: 42 Resp: 1788  
 Ion Ratio Lower Upper  
 42 100  
 74 69.1 59.8 89.6  
 44 7.4 11.9 17.9#

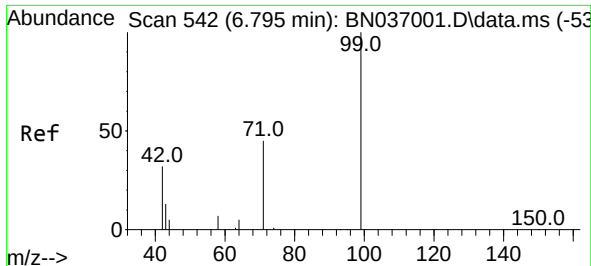


#4  
 2-Fluorophenol  
 Concen: 0.423 ng  
 RT: 5.213 min Scan# 323  
 Delta R.T. 0.000 min  
 Lab File: BN037006.D  
 Acq: 13 May 2025 22:29

Tgt Ion: 112 Resp: 1928  
 Ion Ratio Lower Upper  
 112 100  
 64 71.3 55.7 83.5  
 63 43.4 34.6 51.8



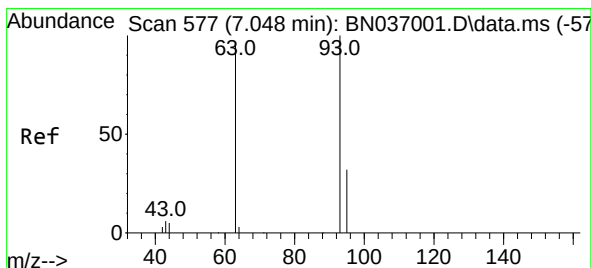
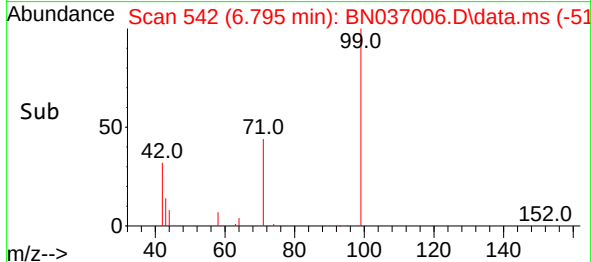
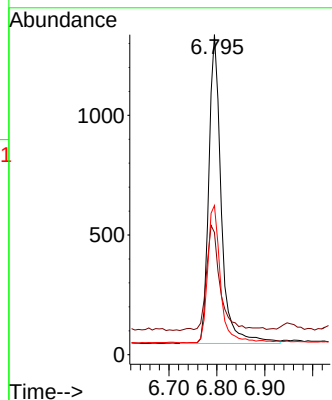
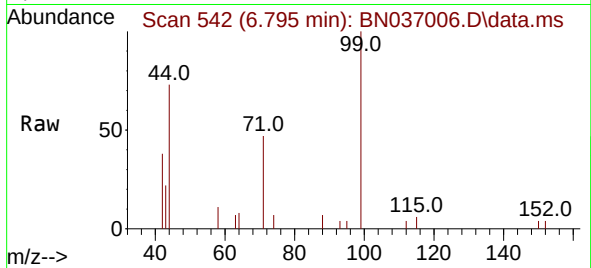




#5  
Phenol-d6  
Concen: 0.408 ng  
RT: 6.795 min Scan# 542  
Delta R.T. -0.000 min  
Lab File: BN037006.D  
Acq: 13 May 2025 22:29

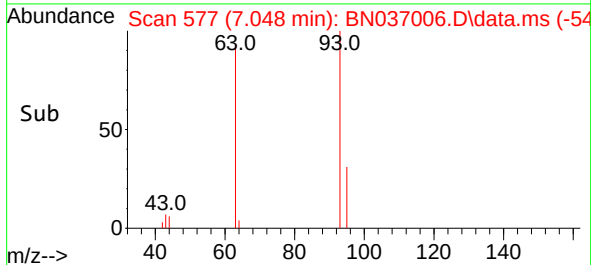
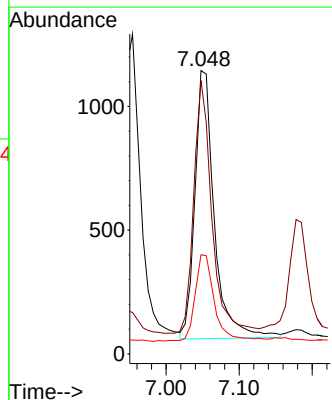
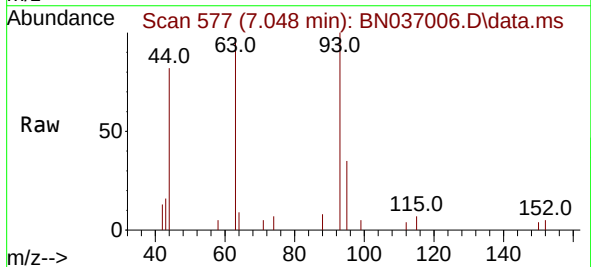
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN051424

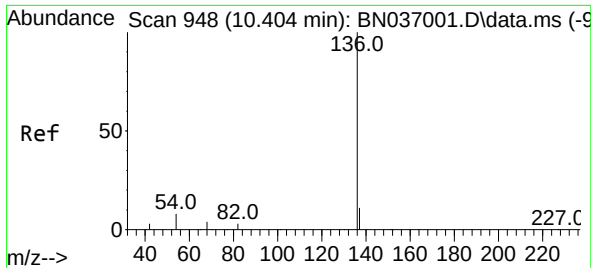
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 99    | Resp: | 2325  |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 38.2  | 29.3  | 43.9  |
| 71       | 45.8  | 35.7  | 53.5  |



#6  
bis(2-Chloroethyl)ether  
Concen: 0.383 ng  
RT: 7.048 min Scan# 577  
Delta R.T. 0.000 min  
Lab File: BN037006.D  
Acq: 13 May 2025 22:29

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 93    | Resp: | 2010  |
| Ion      | Ratio | Lower | Upper |
| 93       | 100   |       |       |
| 63       | 87.3  | 70.1  | 105.1 |
| 95       | 32.9  | 26.2  | 39.2  |

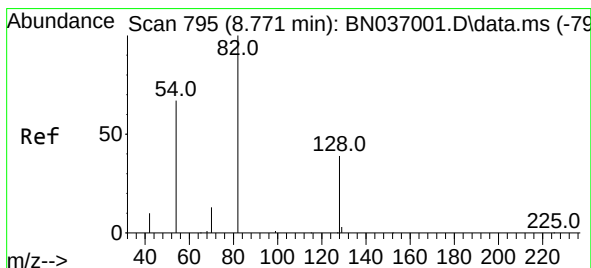
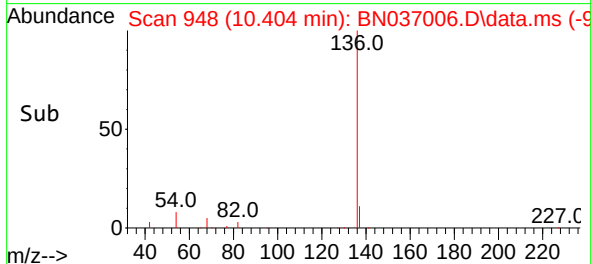
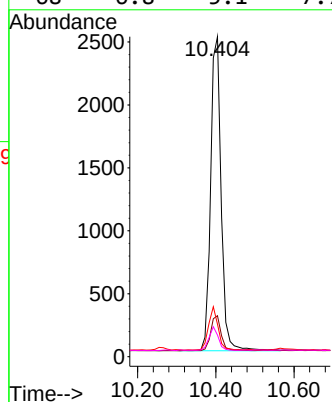
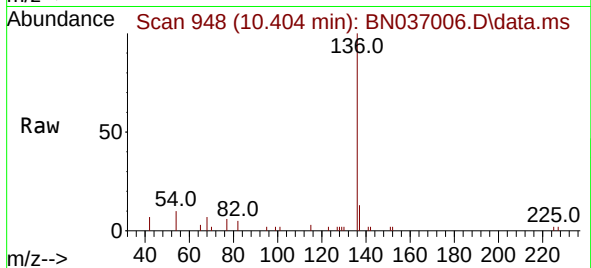




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.404 min Scan# 948  
Delta R.T. 0.000 min  
Lab File: BN037006.D  
Acq: 13 May 2025 22:29

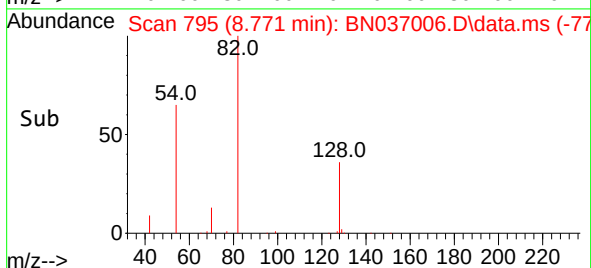
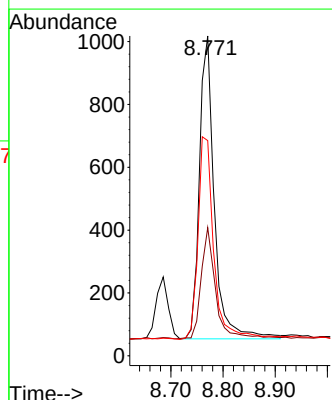
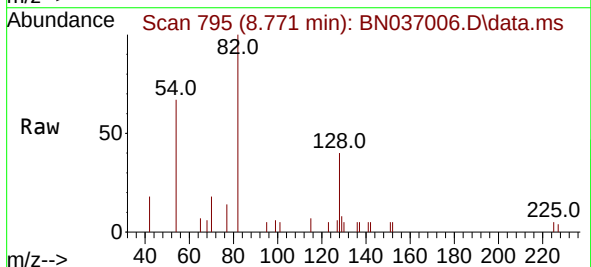
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN051424

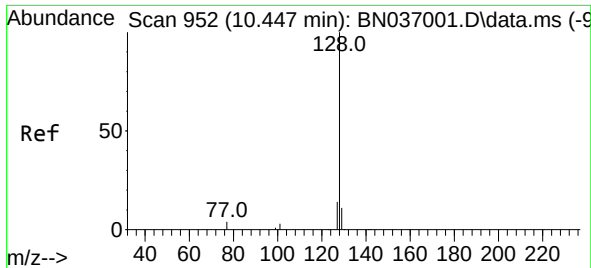
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 4666  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 12.8  | 10.4  | 15.6  |
| 54       | 10.1  | 8.5   | 12.7  |
| 68       | 6.8   | 5.1   | 7.7   |



#8  
Nitrobenzene-d5  
Concen: 0.379 ng  
RT: 8.771 min Scan# 795  
Delta R.T. 0.000 min  
Lab File: BN037006.D  
Acq: 13 May 2025 22:29

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 1928  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 40.1  | 34.0  | 51.0  |
| 54       | 67.3  | 55.0  | 82.4  |

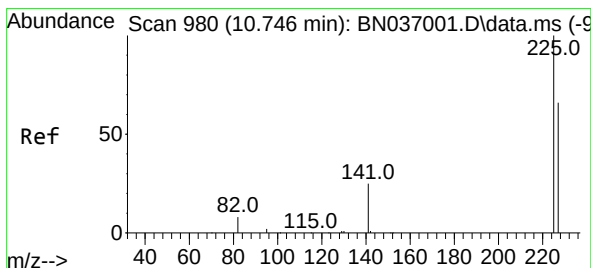
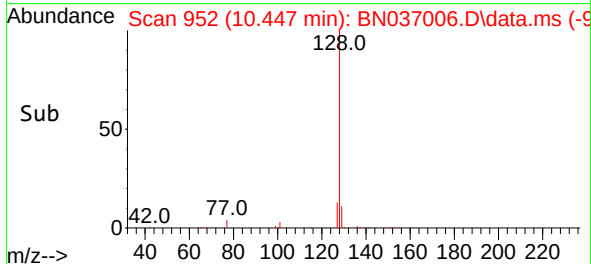
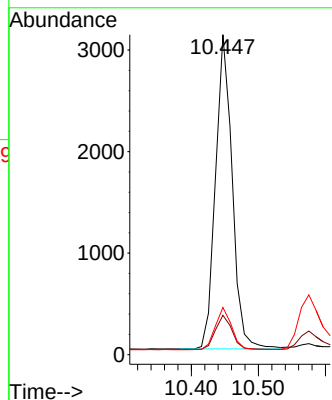
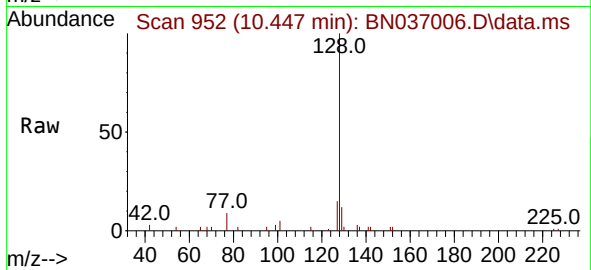




#9  
Naphthalene  
Concen: 0.389 ng  
RT: 10.447 min Scan# 911  
Delta R.T. 0.000 min  
Lab File: BN037006.D  
Acq: 13 May 2025 22:29

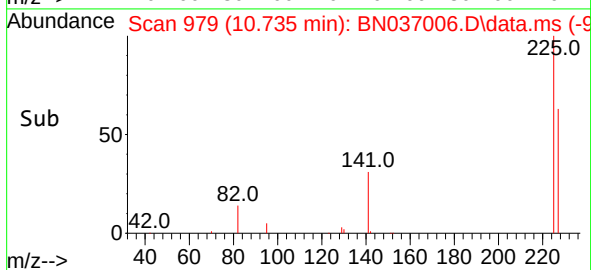
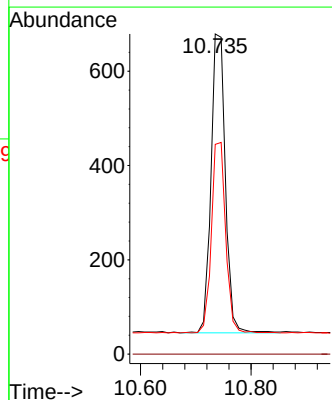
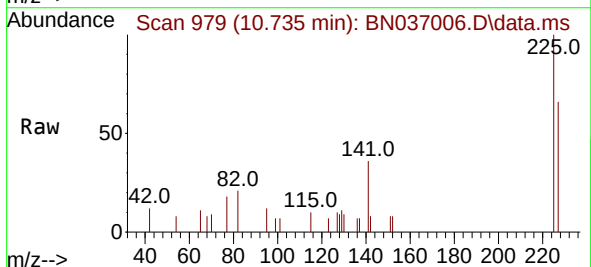
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN051424

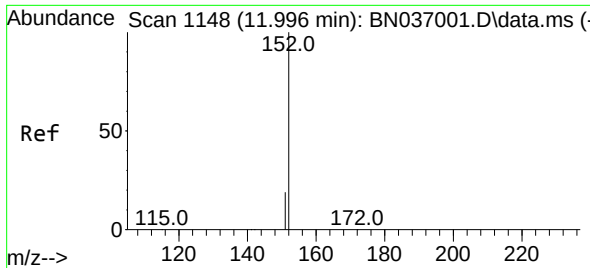
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 5367  |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 129      | 12.3  | 9.7   | 14.5  |
| 127      | 14.8  | 12.4  | 18.6  |



#10  
Hexachlorobutadiene  
Concen: 0.397 ng  
RT: 10.735 min Scan# 979  
Delta R.T. -0.011 min  
Lab File: BN037006.D  
Acq: 13 May 2025 22:29

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 225   | Resp: | 1150  |
| Ion      | Ratio | Lower | Upper |
| 225      | 100   |       |       |
| 223      | 0.0   | 0.0   | 0.0   |
| 227      | 63.1  | 50.9  | 76.3  |

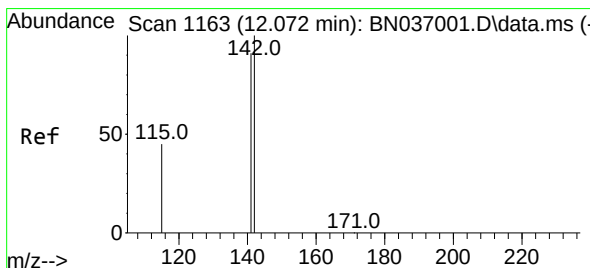
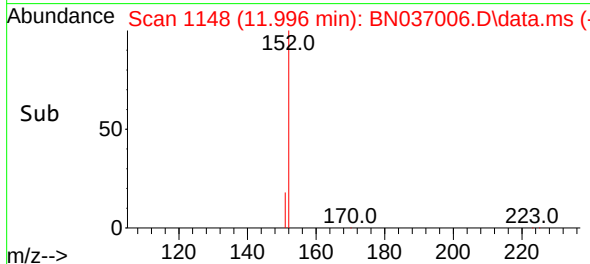
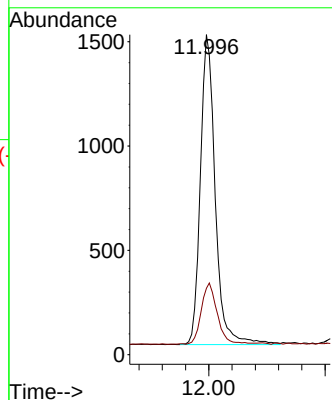
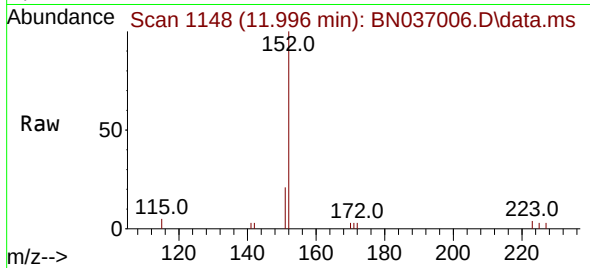




#11  
2-Methylnaphthalene-d10  
Concen: 0.402 ng  
RT: 11.996 min Scan# 1148  
Delta R.T. 0.000 min  
Lab File: BN037006.D  
Acq: 13 May 2025 22:29

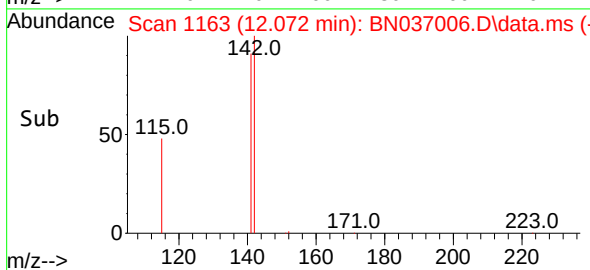
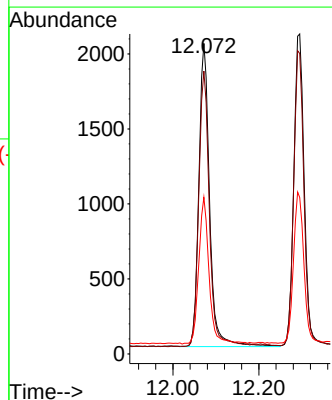
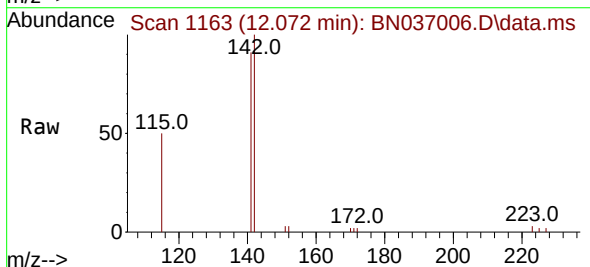
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN051424

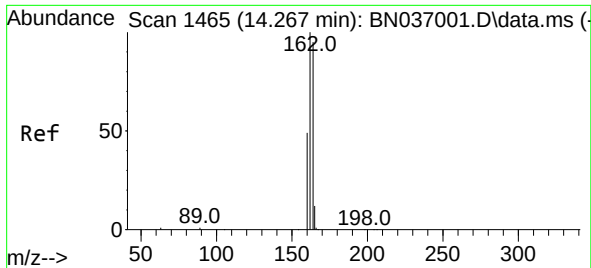
Tgt Ion:152 Resp: 2642  
Ion Ratio Lower Upper  
152 100  
151 21.2 17.5 26.3



#12  
2-Methylnaphthalene  
Concen: 0.396 ng  
RT: 12.072 min Scan# 1163  
Delta R.T. 0.000 min  
Lab File: BN037006.D  
Acq: 13 May 2025 22:29

Tgt Ion:142 Resp: 3513  
Ion Ratio Lower Upper  
142 100  
141 91.1 73.3 109.9  
115 50.4 38.4 57.6

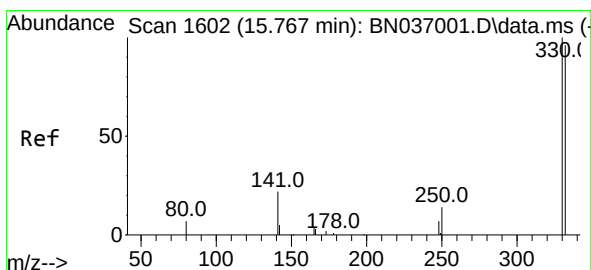
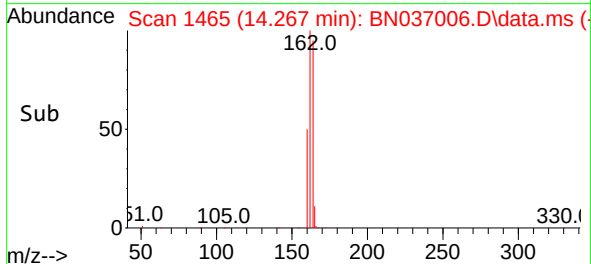
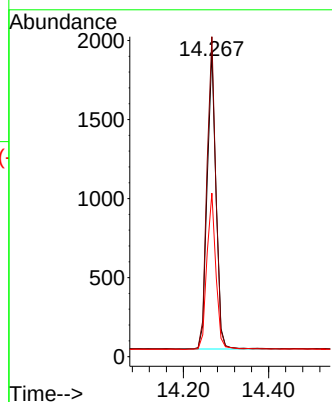
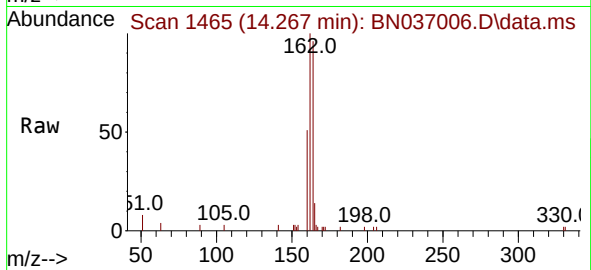




#13  
 Acenaphthene-d10  
 Concen: 0.400 ng  
 RT: 14.267 min Scan# 1465  
 Delta R.T. 0.000 min  
 Lab File: BN037006.D  
 Acq: 13 May 2025 22:29

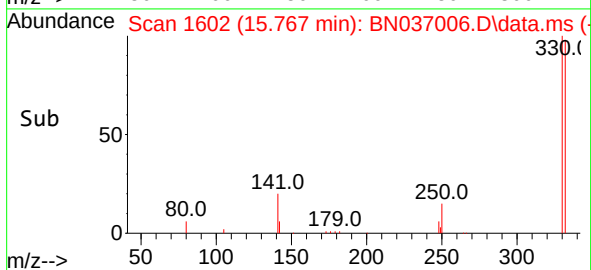
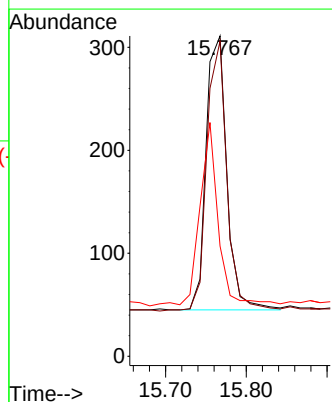
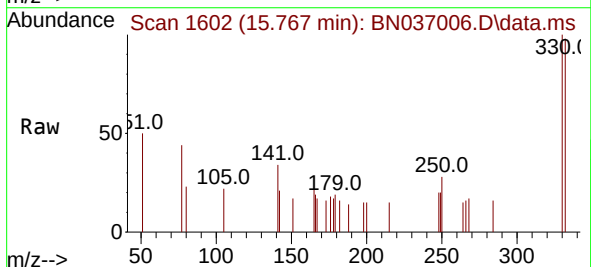
Instrument :  
 BNA\_N  
 ClientSampleId :  
 ICVBN051424

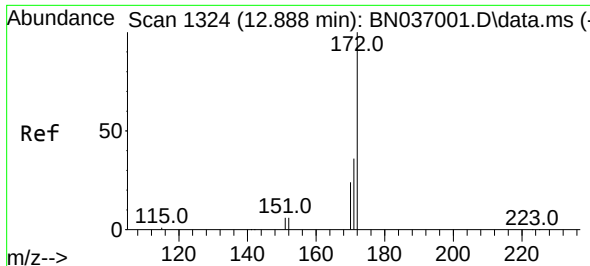
Tgt Ion:164 Resp: 2720  
 Ion Ratio Lower Upper  
 164 100  
 162 104.7 84.2 126.4  
 160 53.5 42.6 63.8



#14  
 2,4,6-Tribromophenol  
 Concen: 0.397 ng  
 RT: 15.767 min Scan# 1602  
 Delta R.T. 0.000 min  
 Lab File: BN037006.D  
 Acq: 13 May 2025 22:29

Tgt Ion:330 Resp: 474  
 Ion Ratio Lower Upper  
 330 100  
 332 96.0 73.8 110.8  
 141 59.7 43.9 65.9

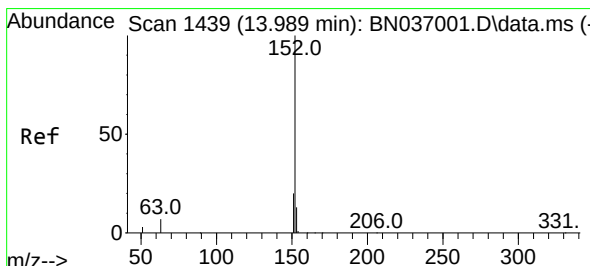
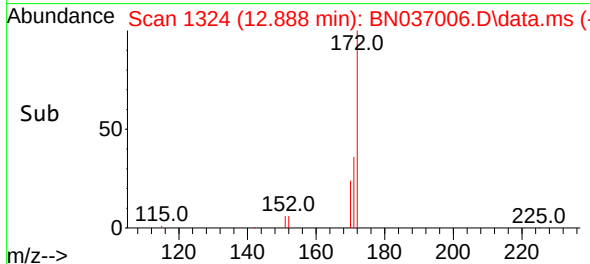
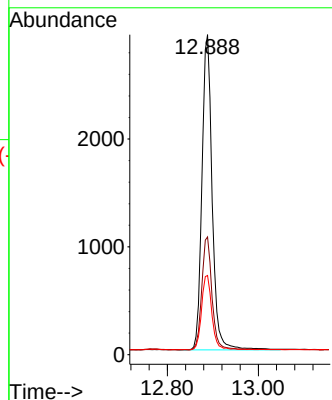
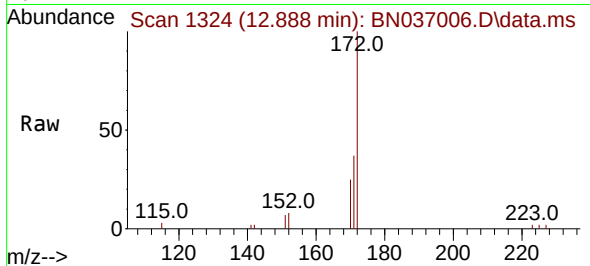




#15  
2-Fluorobiphenyl  
Concen: 0.406 ng  
RT: 12.888 min Scan# 1324  
Delta R.T. 0.000 min  
Lab File: BN037006.D  
Acq: 13 May 2025 22:29

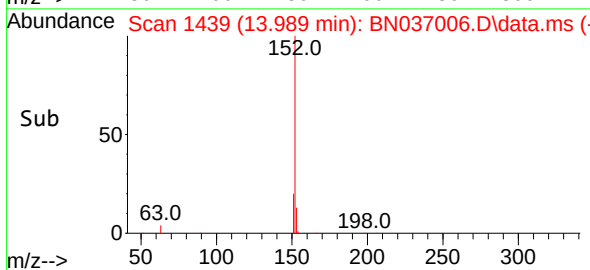
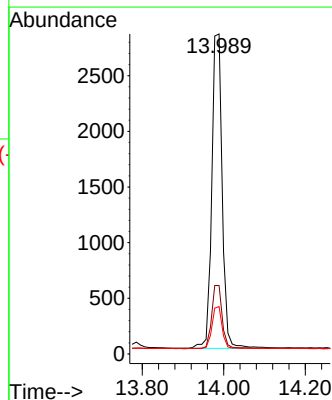
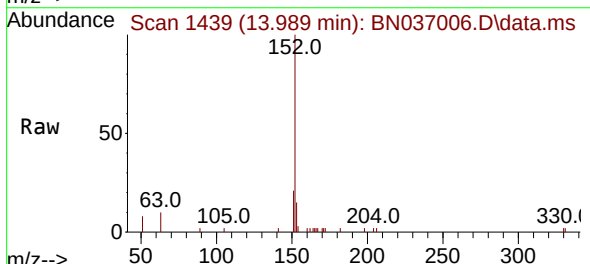
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN051424

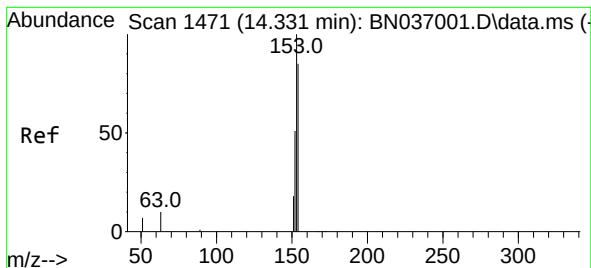
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 172   | Resp: | 5054 |
| Ion Ratio | Lower | Upper |      |
| 172       | 100   |       |      |
| 171       | 36.8  | 29.2  | 43.8 |
| 170       | 24.8  | 20.5  | 30.7 |



#16  
Acenaphthylene  
Concen: 0.379 ng  
RT: 13.989 min Scan# 1439  
Delta R.T. 0.000 min  
Lab File: BN037006.D  
Acq: 13 May 2025 22:29

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 152   | Resp: | 5019 |
| Ion Ratio | Lower | Upper |      |
| 152       | 100   |       |      |
| 151       | 20.1  | 16.1  | 24.1 |
| 153       | 13.4  | 10.5  | 15.7 |





#17

Acenaphthene

Concen: 0.387 ng

RT: 14.331 min Scan# 1471

Delta R.T. 0.000 min

Lab File: BN037006.D

Acq: 13 May 2025 22:29

Instrument :

BNA\_N

ClientSampleId :

ICVBN051424

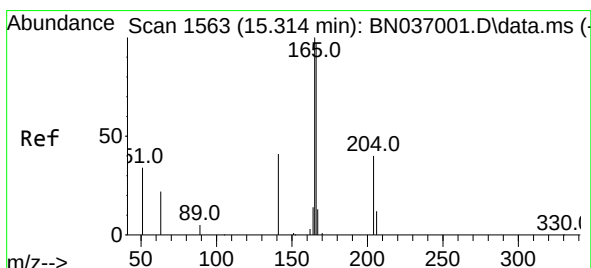
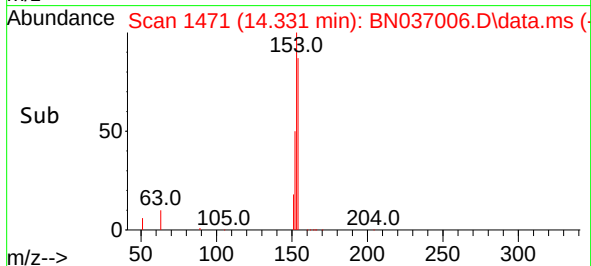
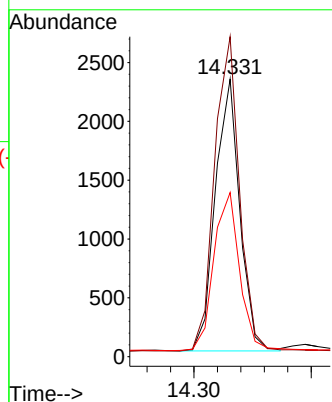
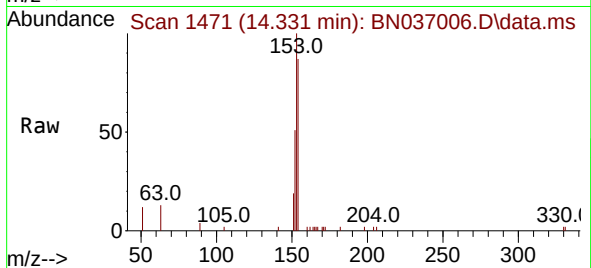
Tgt Ion:154 Resp: 3352

Ion Ratio Lower Upper

154 100

153 118.0 94.2 141.4

152 61.8 49.4 74.0



#18

Fluorene

Concen: 0.388 ng

RT: 15.325 min Scan# 1564

Delta R.T. 0.011 min

Lab File: BN037006.D

Acq: 13 May 2025 22:29

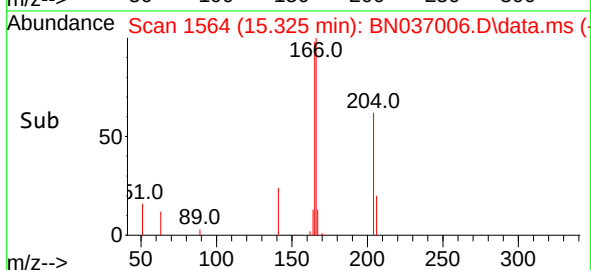
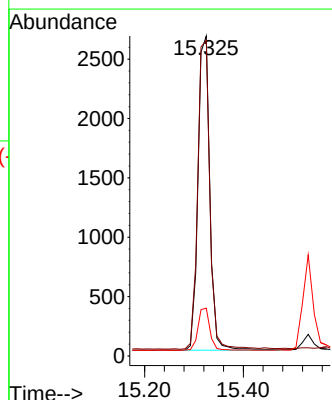
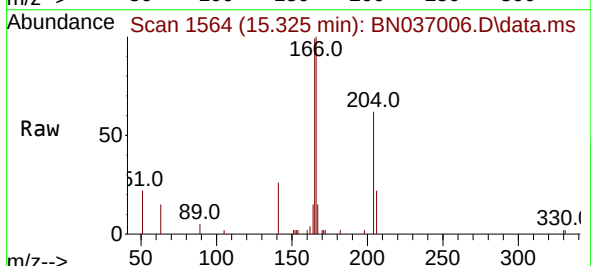
Tgt Ion:166 Resp: 4398

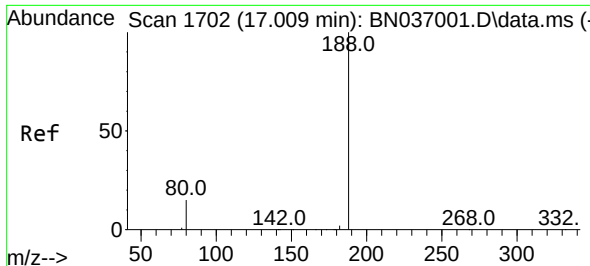
Ion Ratio Lower Upper

166 100

165 100.3 80.6 120.8

167 13.7 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.009 min Scan# 11

Delta R.T. 0.000 min

Lab File: BN037006.D

Acq: 13 May 2025 22:29

Instrument :

BNA\_N

ClientSampleId :

ICVBN051424

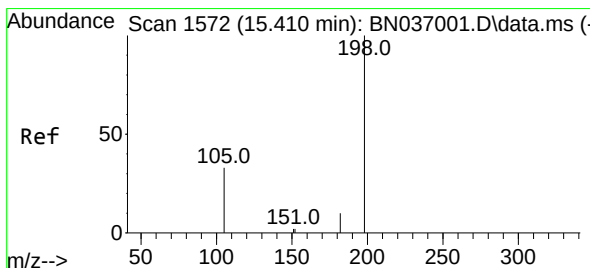
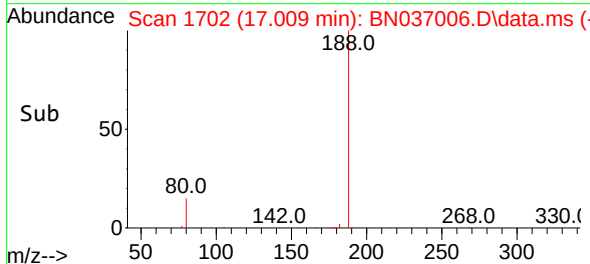
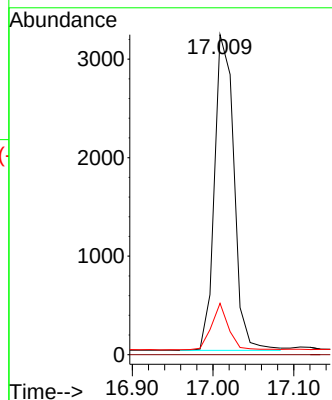
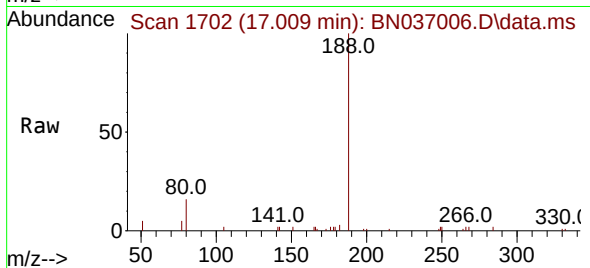
Tgt Ion:188 Resp: 5359

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 16.1 13.4 20.0



#20

4,6-Dinitro-2-methylphenol

Concen: 0.396 ng

RT: 15.411 min Scan# 1572

Delta R.T. 0.001 min

Lab File: BN037006.D

Acq: 13 May 2025 22:29

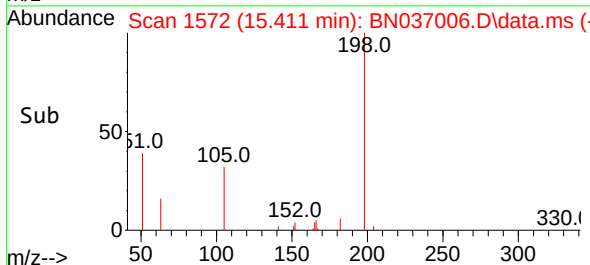
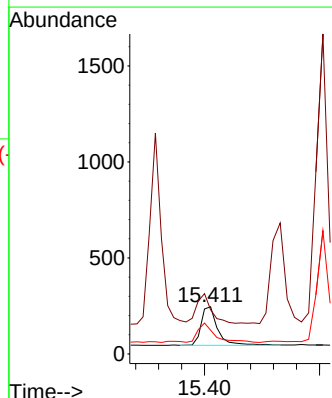
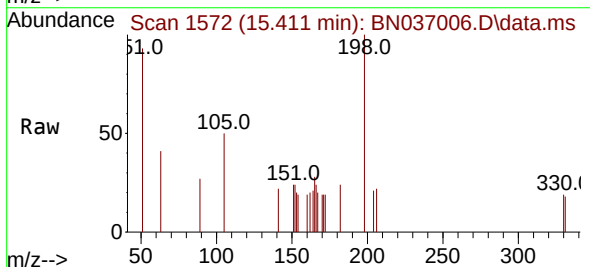
Tgt Ion:198 Resp: 410

Ion Ratio Lower Upper

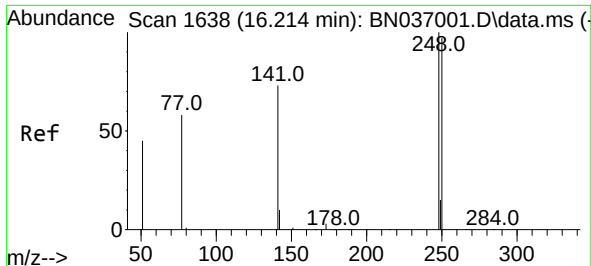
198 100

51 93.5 87.8 131.6

105 50.4 44.2 66.4



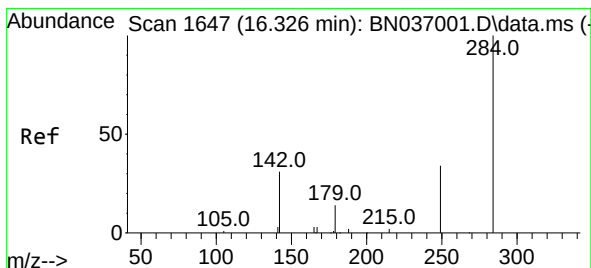
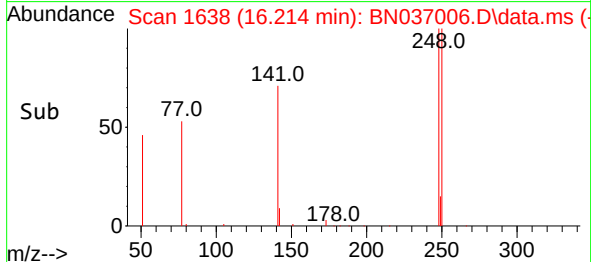
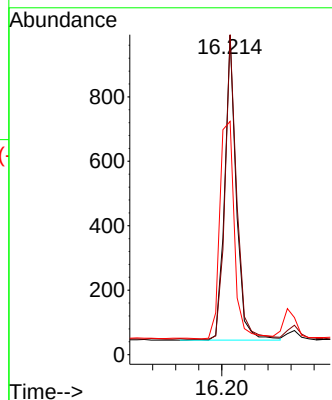
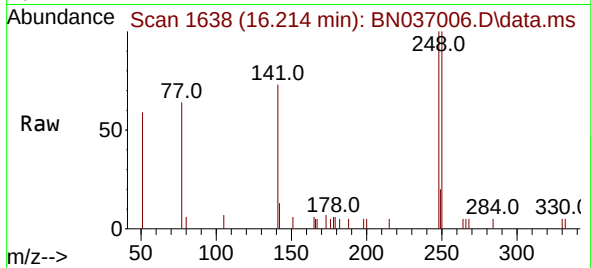




#21  
4-Bromophenyl-phenylether  
Concen: 0.392 ng  
RT: 16.214 min Scan# 1638  
Delta R.T. 0.000 min  
Lab File: BN037006.D  
Acq: 13 May 2025 22:29

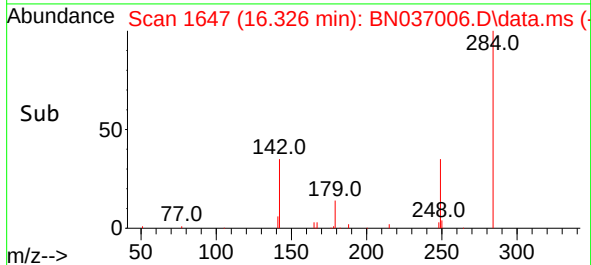
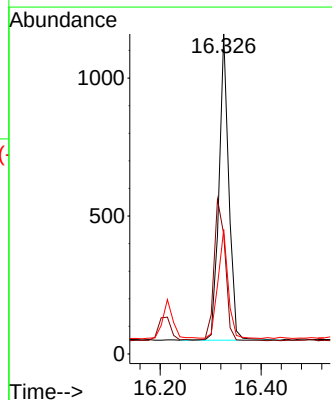
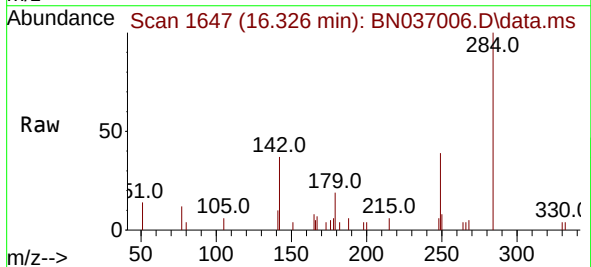
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN051424

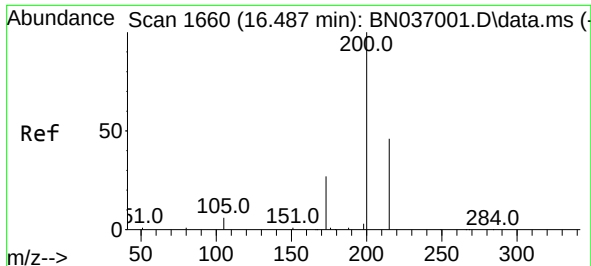
Tgt Ion:248 Resp: 1326  
Ion Ratio Lower Upper  
248 100  
250 100.1 78.1 117.1  
141 73.0 59.7 89.5



#22  
Hexachlorobenzene  
Concen: 0.411 ng  
RT: 16.326 min Scan# 1647  
Delta R.T. 0.000 min  
Lab File: BN037006.D  
Acq: 13 May 2025 22:29

Tgt Ion:284 Resp: 1488  
Ion Ratio Lower Upper  
284 100  
142 53.0 41.2 61.8  
249 37.0 28.7 43.1

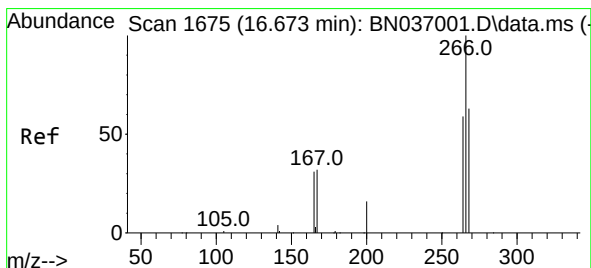
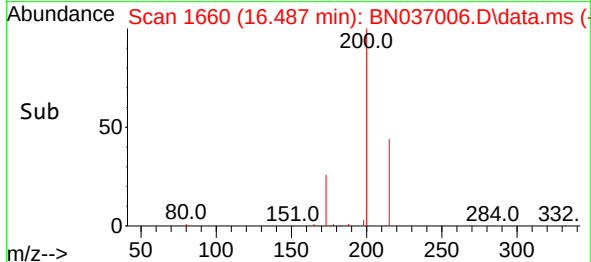
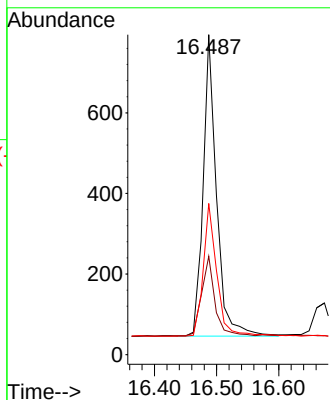
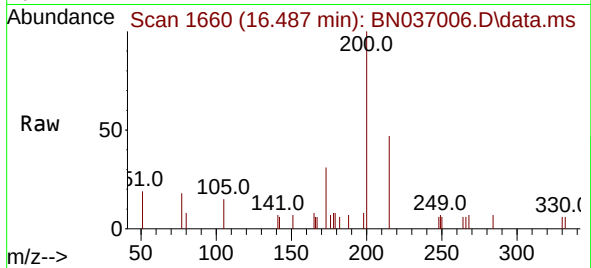




#23  
 Atrazine  
 Concen: 0.379 ng  
 RT: 16.487 min Scan# 1660  
 Delta R.T. 0.000 min  
 Lab File: BN037006.D  
 Acq: 13 May 2025 22:29

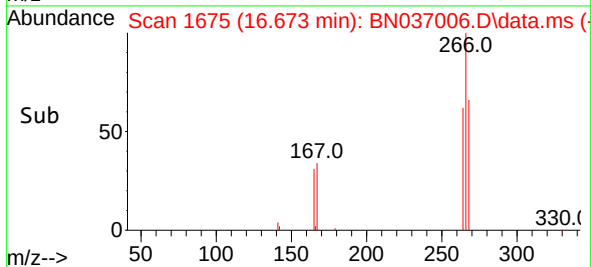
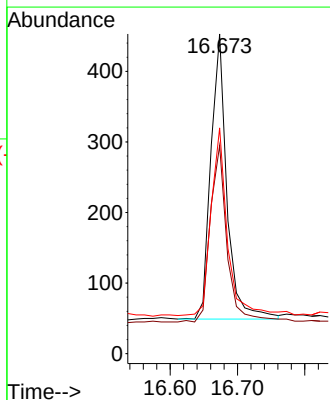
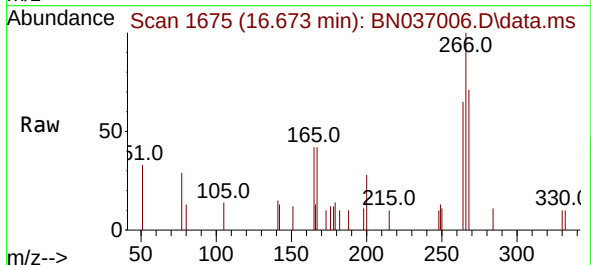
Instrument :  
 BNA\_N  
 ClientSampleId :  
 ICVBN051424

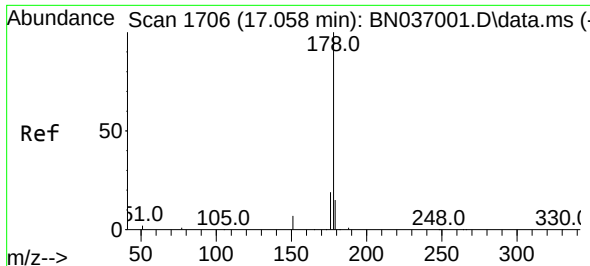
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 200     | 100   |       |       |
| 173     | 30.7  | 25.2  | 37.8  |
| 215     | 47.2  | 39.3  | 58.9  |



#24  
 Pentachlorophenol  
 Concen: 0.336 ng  
 RT: 16.673 min Scan# 1675  
 Delta R.T. 0.000 min  
 Lab File: BN037006.D  
 Acq: 13 May 2025 22:29

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 266     | 100   |       |       |
| 264     | 64.9  | 47.9  | 71.9  |
| 268     | 67.7  | 50.0  | 75.0  |

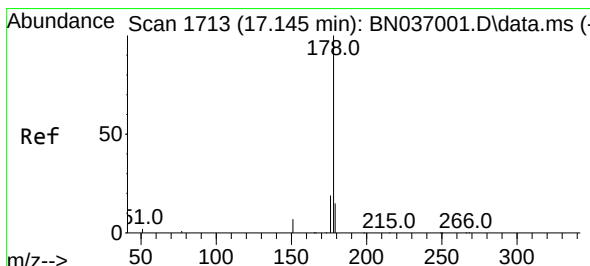
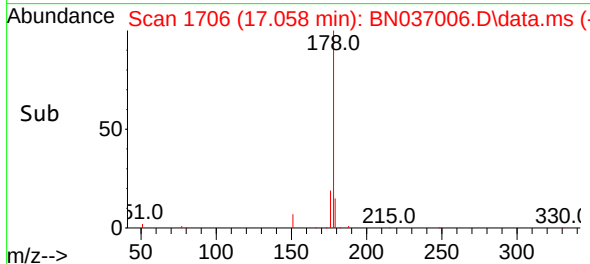
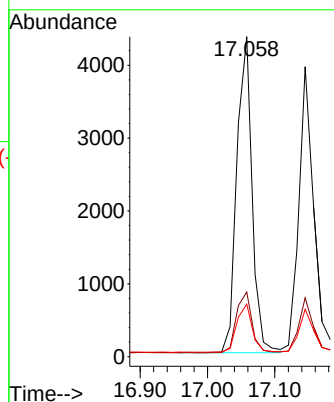
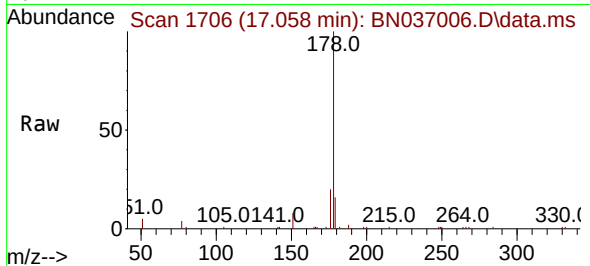




#25  
 Phenanthrene  
 Concen: 0.391 ng  
 RT: 17.058 min Scan# 1706  
 Delta R.T. 0.000 min  
 Lab File: BN037006.D  
 Acq: 13 May 2025 22:29

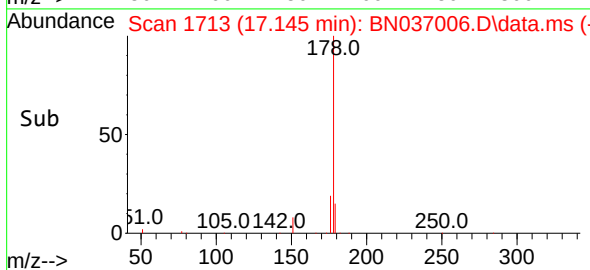
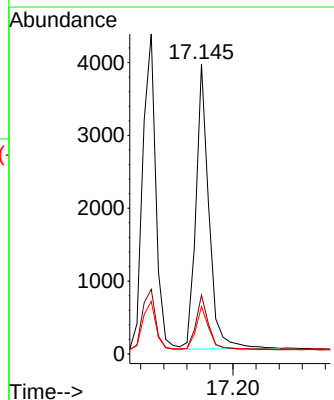
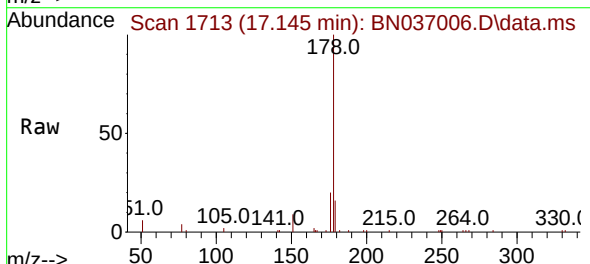
Instrument :  
 BNA\_N  
 ClientSampleId :  
 ICVBN051424

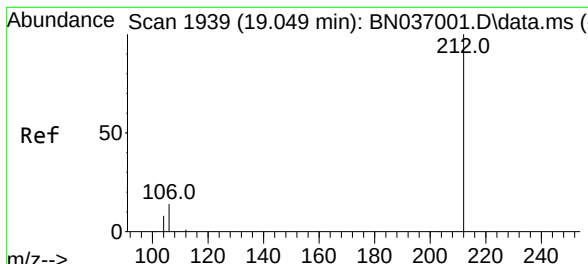
Tgt Ion:178 Resp: 6852  
 Ion Ratio Lower Upper  
 178 100  
 176 19.7 15.7 23.5  
 179 15.6 12.2 18.2



#26  
 Anthracene  
 Concen: 0.384 ng  
 RT: 17.145 min Scan# 1713  
 Delta R.T. 0.000 min  
 Lab File: BN037006.D  
 Acq: 13 May 2025 22:29

Tgt Ion:178 Resp: 6126  
 Ion Ratio Lower Upper  
 178 100  
 176 19.0 15.0 22.6  
 179 15.1 12.3 18.5

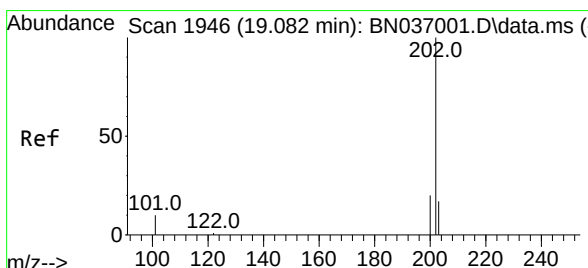
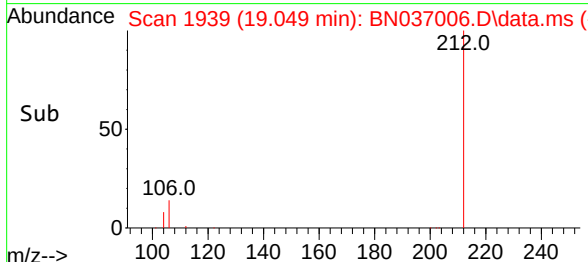
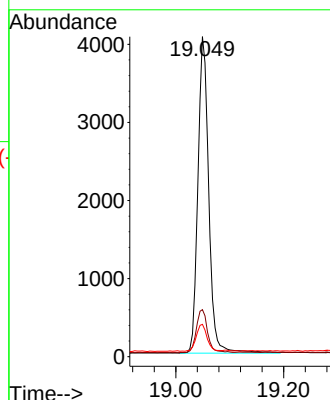
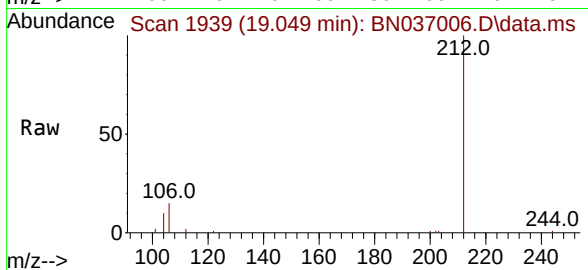




#27  
Fluoranthene-d10  
Concen: 0.384 ng  
RT: 19.049 min Scan# 1939  
Delta R.T. 0.000 min  
Lab File: BN037006.D  
Acq: 13 May 2025 22:29

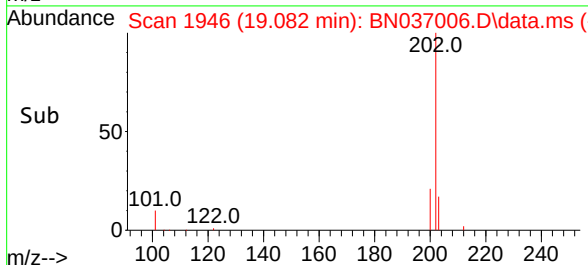
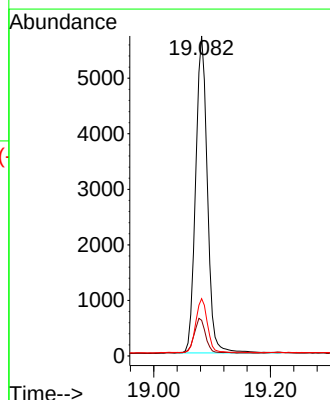
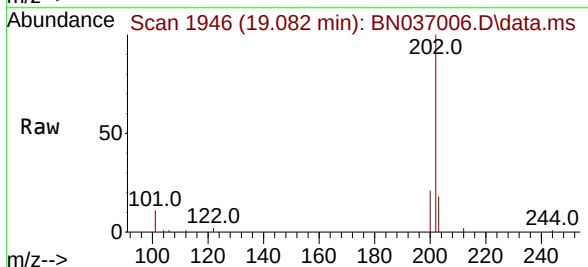
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN051424

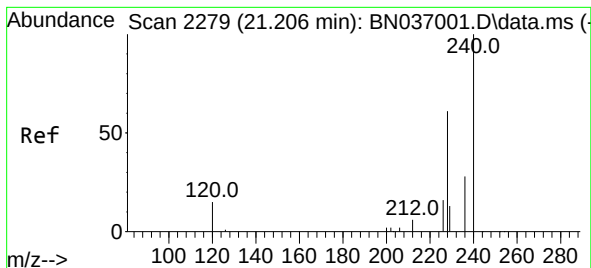
Tgt Ion:212 Resp: 5648  
Ion Ratio Lower Upper  
212 100  
106 13.9 11.3 16.9  
104 8.5 6.7 10.1



#28  
Fluoranthene  
Concen: 0.380 ng  
RT: 19.082 min Scan# 1946  
Delta R.T. 0.000 min  
Lab File: BN037006.D  
Acq: 13 May 2025 22:29

Tgt Ion:202 Resp: 7940  
Ion Ratio Lower Upper  
202 100  
101 11.1 8.9 13.3  
203 16.9 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.206 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037006.D

Acq: 13 May 2025 22:29

Instrument :

BNA\_N

ClientSampleId :

ICVBN051424

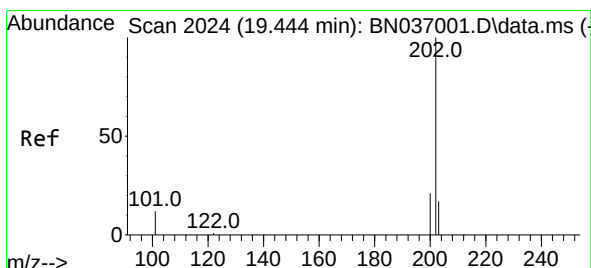
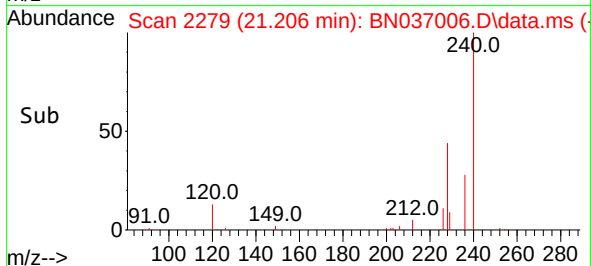
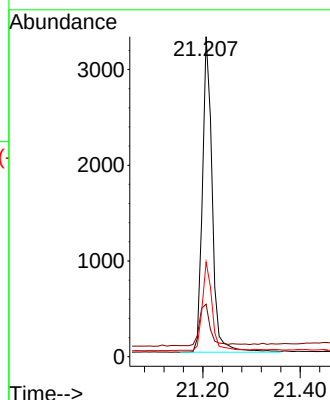
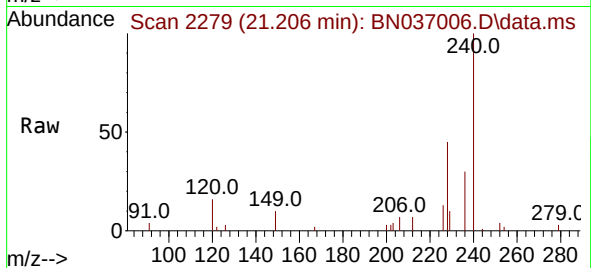
Tgt Ion:240 Resp: 4597

Ion Ratio Lower Upper

240 100

120 16.4 15.1 22.7

236 29.6 24.0 36.0



#30

Pyrene

Concen: 0.412 ng

RT: 19.444 min Scan# 2024

Delta R.T. 0.000 min

Lab File: BN037006.D

Acq: 13 May 2025 22:29

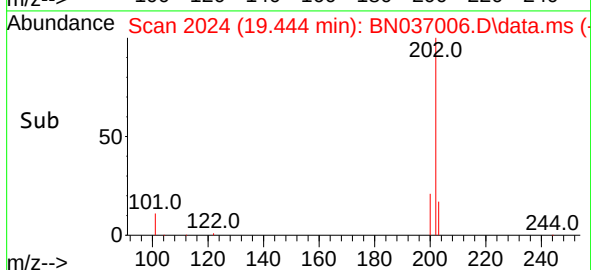
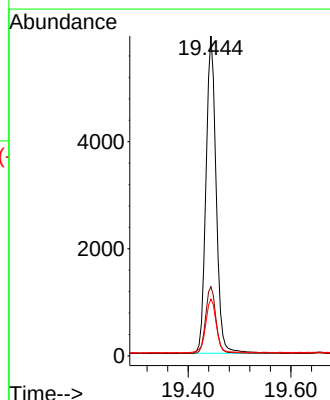
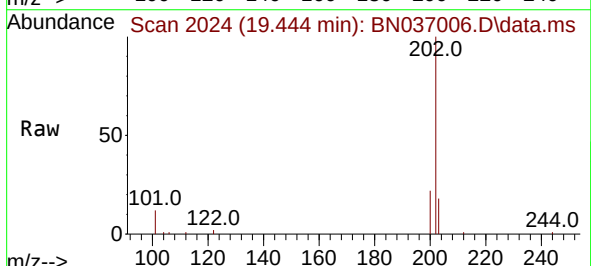
Tgt Ion:202 Resp: 8093

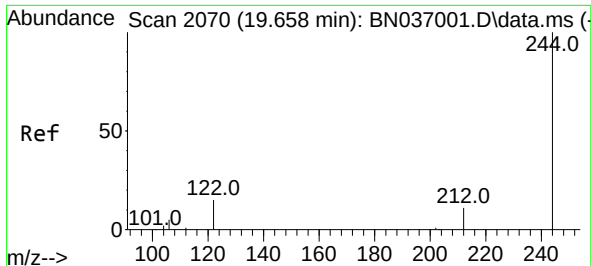
Ion Ratio Lower Upper

202 100

200 21.5 17.1 25.7

203 17.7 14.2 21.4

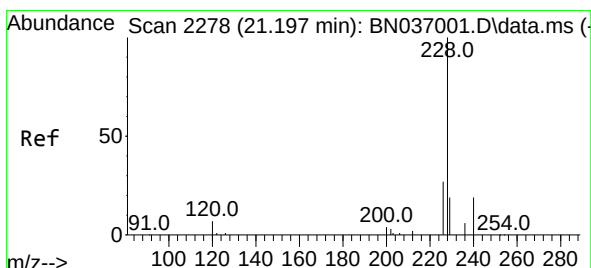
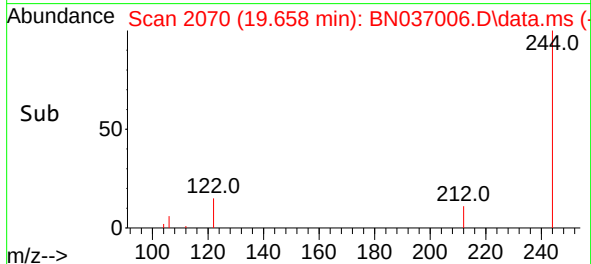
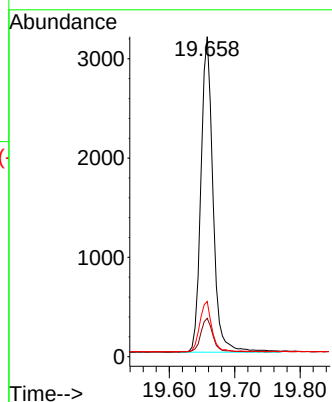
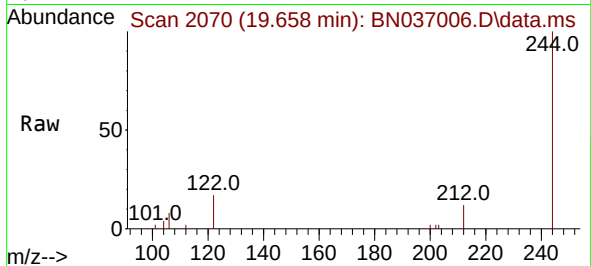




#31  
 Terphenyl-d14  
 Concen: 0.415 ng  
 RT: 19.658 min Scan# 2070  
 Delta R.T. 0.000 min  
 Lab File: BN037006.D  
 Acq: 13 May 2025 22:29

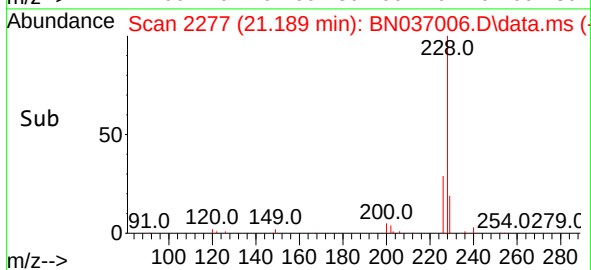
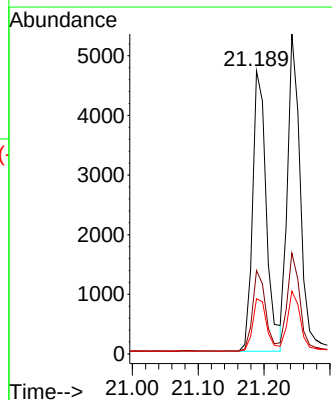
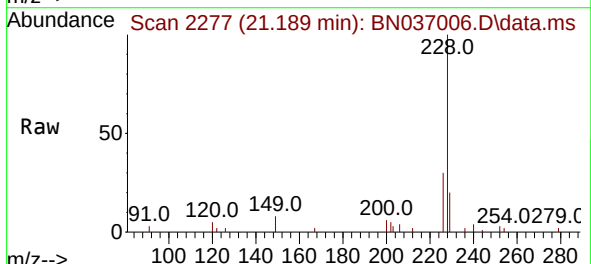
Instrument :  
 BNA\_N  
 ClientSampleId :  
 ICVBN051424

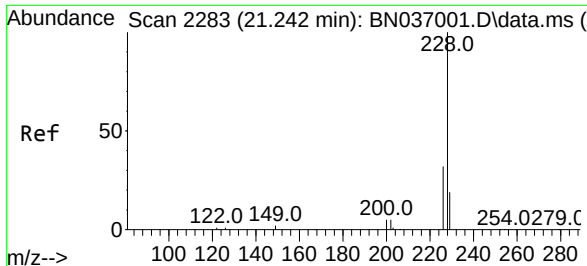
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 244   | Resp: | 4080  |
| Ion      | Ratio | Lower | Upper |
| 244      | 100   |       |       |
| 212      | 12.0  | 9.7   | 14.5  |
| 122      | 17.2  | 13.4  | 20.0  |



#32  
 Benzo(a)anthracene  
 Concen: 0.394 ng  
 RT: 21.189 min Scan# 2277  
 Delta R.T. -0.009 min  
 Lab File: BN037006.D  
 Acq: 13 May 2025 22:29

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 228   | Resp: | 6824  |
| Ion      | Ratio | Lower | Upper |
| 228      | 100   |       |       |
| 226      | 29.5  | 22.2  | 33.4  |
| 229      | 19.5  | 16.0  | 24.0  |





#33

Chrysene

Concen: 0.399 ng

RT: 21.242 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037006.D

Acq: 13 May 2025 22:29

Instrument :

BNA\_N

ClientSampleId :

ICVBN051424

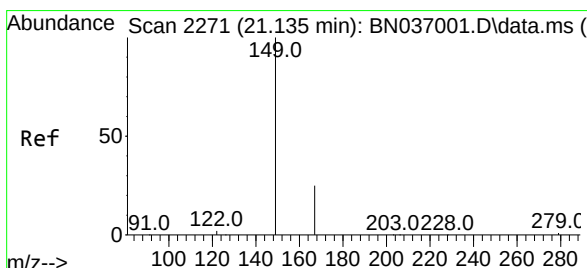
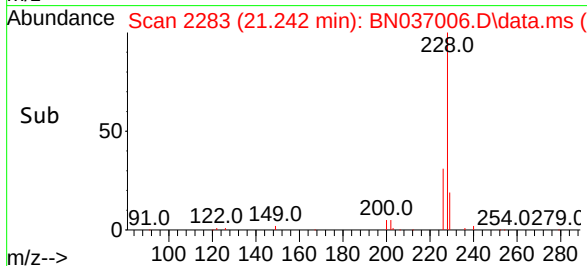
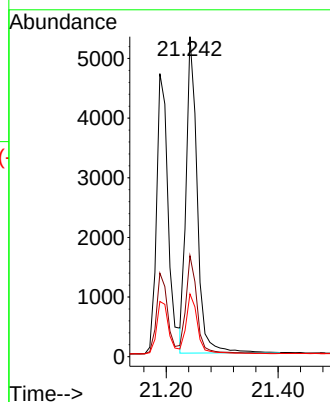
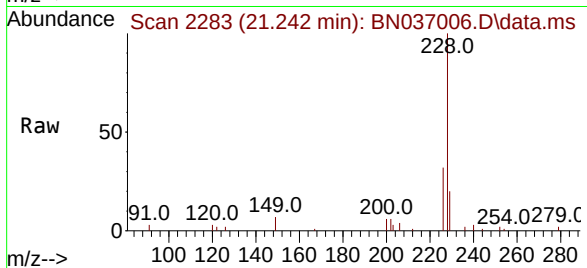
Tgt Ion:228 Resp: 7298

Ion Ratio Lower Upper

228 100

226 31.6 26.3 39.5

229 19.6 16.2 24.2



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.387 ng

RT: 21.135 min Scan# 2271

Delta R.T. 0.000 min

Lab File: BN037006.D

Acq: 13 May 2025 22:29

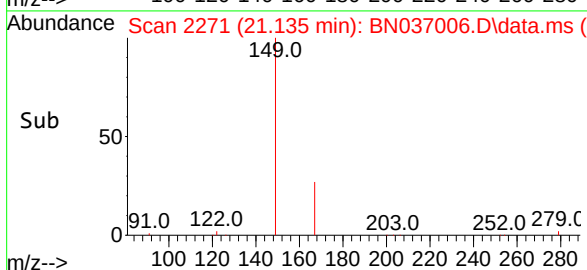
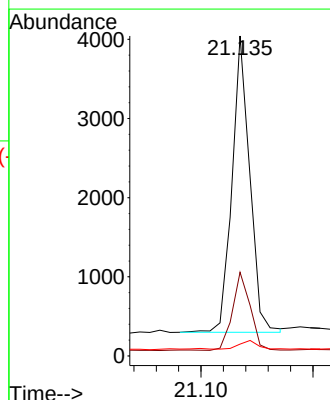
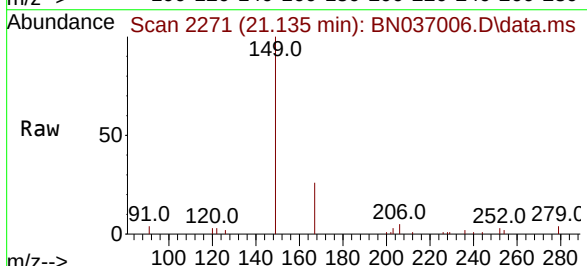
Tgt Ion:149 Resp: 4120

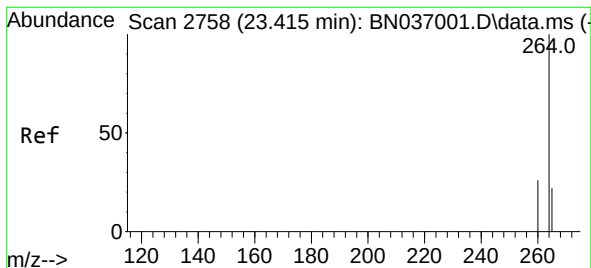
Ion Ratio Lower Upper

149 100

167 26.1 20.6 30.8

279 2.9 2.6 3.8





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.415 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037006.D

Acq: 13 May 2025 22:29

Instrument :

BNA\_N

ClientSampleId :

ICVBN051424

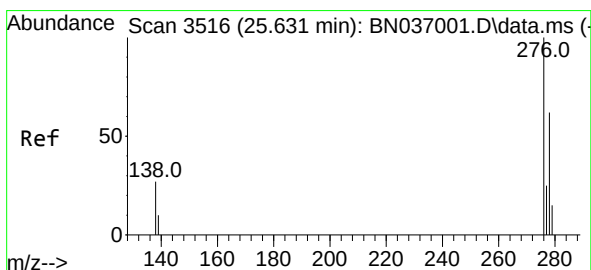
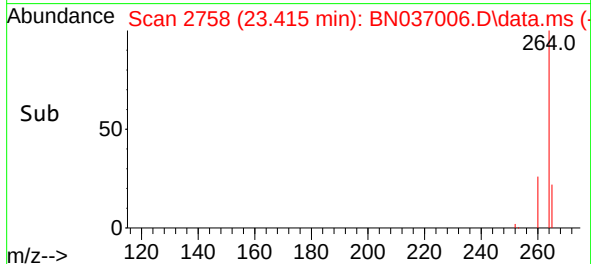
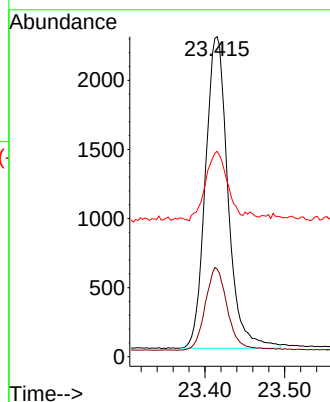
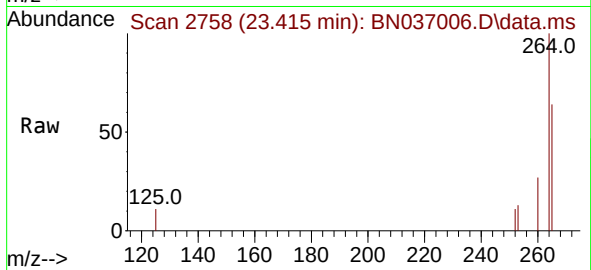
Tgt Ion:264 Resp: 4432

Ion Ratio Lower Upper

264 100

260 27.4 21.9 32.9

265 64.2 51.6 77.4



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.407 ng

RT: 25.623 min Scan# 3513

Delta R.T. -0.009 min

Lab File: BN037006.D

Acq: 13 May 2025 22:29

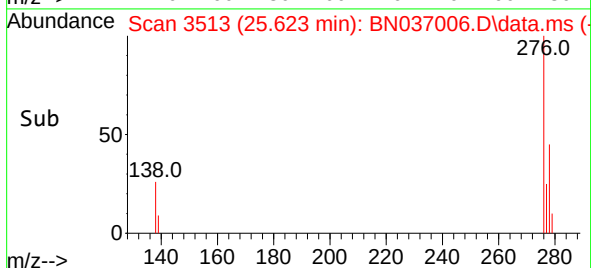
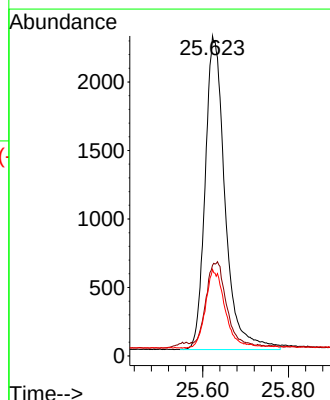
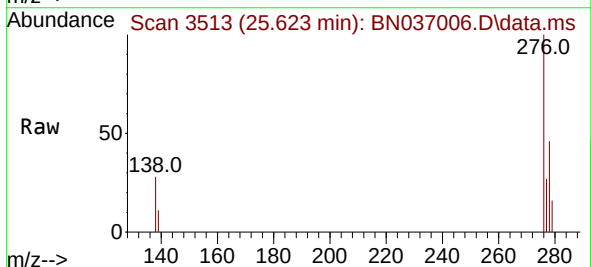
Tgt Ion:276 Resp: 7358

Ion Ratio Lower Upper

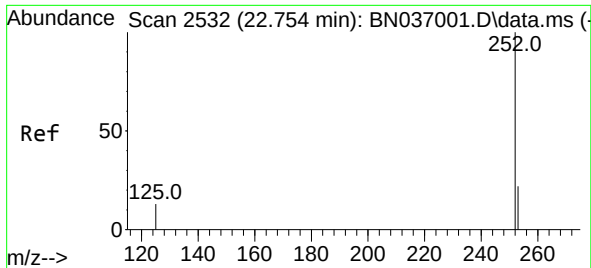
276 100

138 26.6 22.7 34.1

277 24.6 20.0 30.0



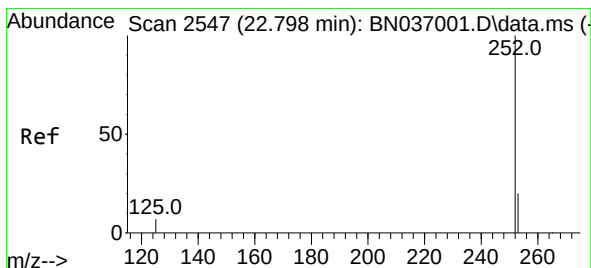
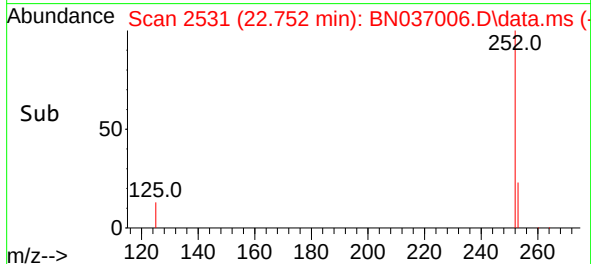
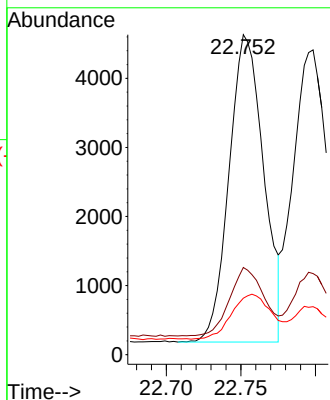
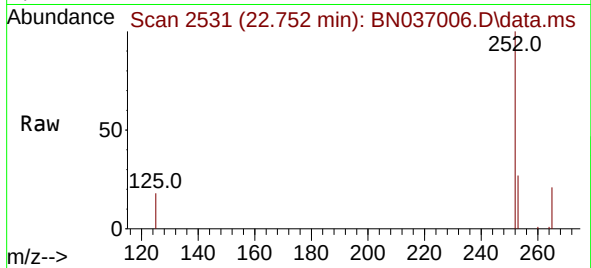




#37  
Benzo(b)fluoranthene  
Concen: 0.391 ng  
RT: 22.752 min Scan# 2532  
Delta R.T. -0.003 min  
Lab File: BN037006.D  
Acq: 13 May 2025 22:29

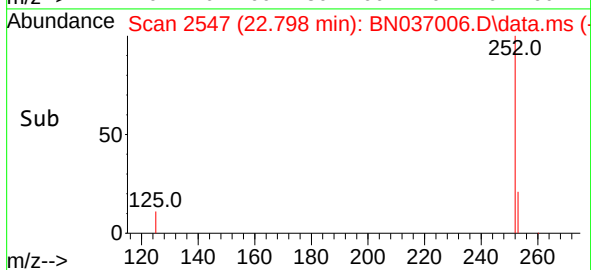
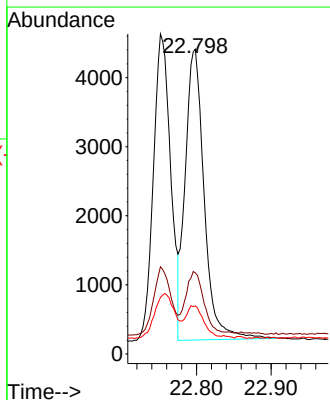
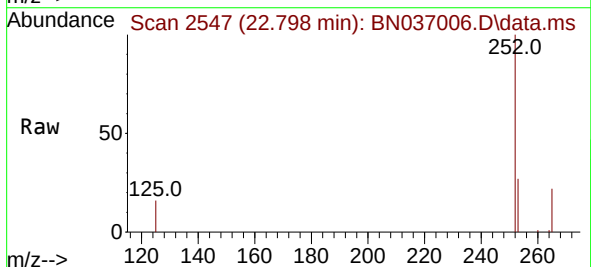
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN051424

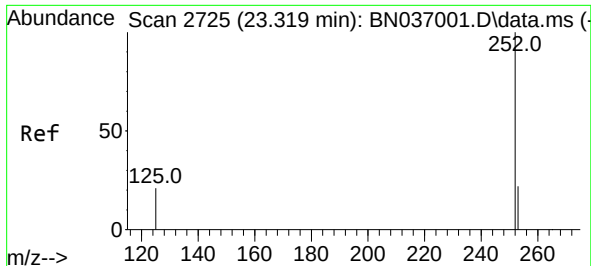
Tgt Ion:252 Resp: 7184  
Ion Ratio Lower Upper  
252 100  
253 27.3 21.8 32.6  
125 17.7 14.6 21.8



#38  
Benzo(k)fluoranthene  
Concen: 0.410 ng  
RT: 22.798 min Scan# 2547  
Delta R.T. 0.000 min  
Lab File: BN037006.D  
Acq: 13 May 2025 22:29

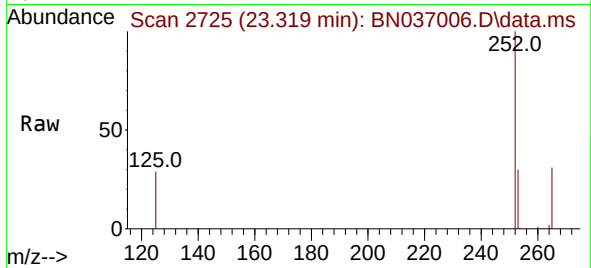
Tgt Ion:252 Resp: 7438  
Ion Ratio Lower Upper  
252 100  
253 26.6 21.4 32.2  
125 15.7 13.0 19.4



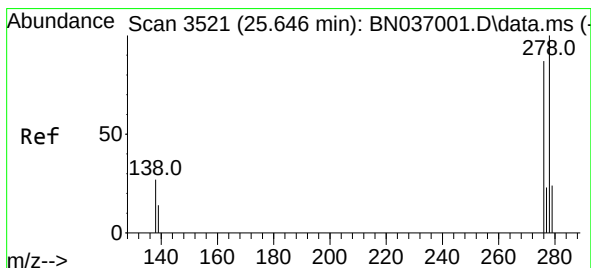
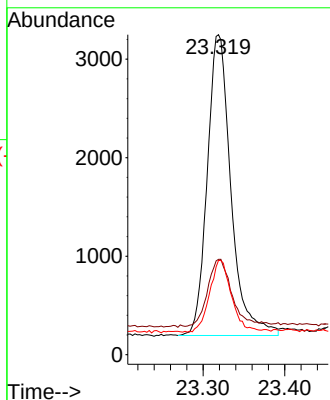
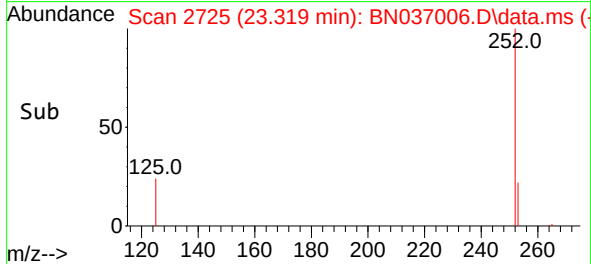


#39  
Benzo(a)pyrene  
Concen: 0.395 ng  
RT: 23.319 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: BN037006.D  
Acq: 13 May 2025 22:29

Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN051424

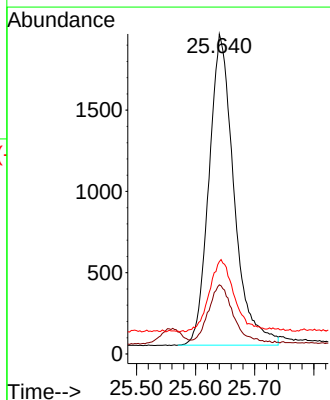
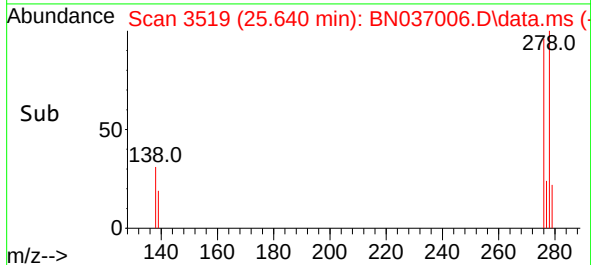
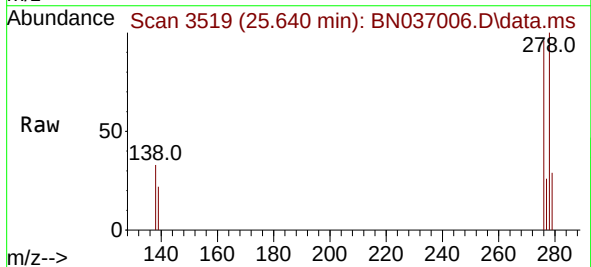


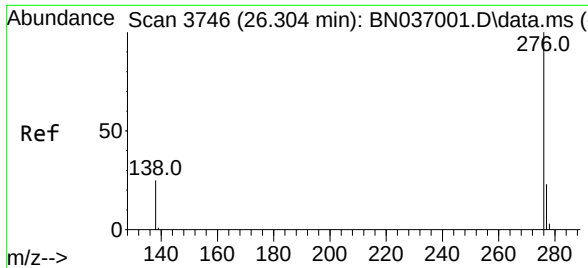
Tgt Ion:252 Resp: 6167  
Ion Ratio Lower Upper  
252 100  
253 29.8 23.8 35.6  
125 29.5 21.8 32.6



#40  
Dibenzo(a,h)anthracene  
Concen: 0.399 ng  
RT: 25.640 min Scan# 3519  
Delta R.T. -0.006 min  
Lab File: BN037006.D  
Acq: 13 May 2025 22:29

Tgt Ion:278 Resp: 5621  
Ion Ratio Lower Upper  
278 100  
139 21.6 17.4 26.0  
279 28.8 24.6 37.0

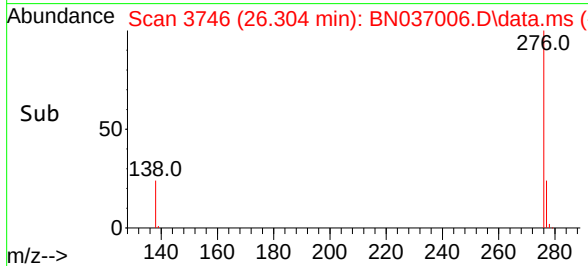
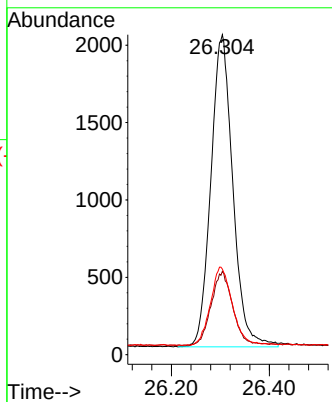
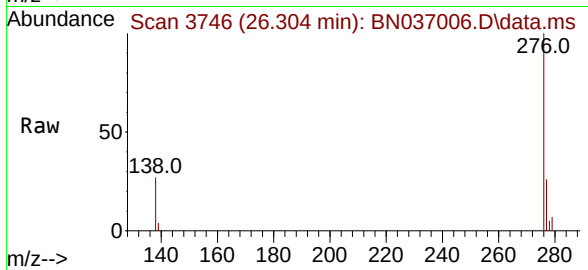




#41  
 Benzo(g,h,i)perylene  
 Concen: 0.409 ng  
 RT: 26.304 min Scan# 31  
 Delta R.T. 0.000 min  
 Lab File: BN037006.D  
 Acq: 13 May 2025 22:29

Instrument :  
 BNA\_N  
 ClientSampleId :  
 ICVBN051424

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 276   | Resp: | 6268  |
| Ion      | Ratio | Lower | Upper |
| 276      | 100   |       |       |
| 277      | 26.1  | 20.2  | 30.4  |
| 138      | 26.7  | 22.0  | 33.0  |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN051425\  
 Data File : BN037006.D  
 Acq On : 13 May 2025 22:29  
 Operator : RC/JU  
 Sample : SSTDICV0.4  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 ICVBN051424

Quant Time: May 14 11:28:08 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN051425.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 14 11:26:32 2025  
 Response via : Initial Calibration

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

|         | Compound                   | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|---------|----------------------------|-------|-------|------|-------|----------|
| 1 I     | 1,4-Dichlorobenzene-d4     | 1.000 | 1.000 | 0.0  | 100   | 0.00     |
| 2       | 1,4-Dioxane                | 0.491 | 0.499 | -1.6 | 98    | 0.00     |
| 3       | n-Nitrosodimethylamine     | 1.054 | 1.029 | 2.4  | 105   | 0.00     |
| 4 S     | 2-Fluorophenol             | 1.048 | 1.109 | -5.8 | 98    | 0.00     |
| 5 S     | Phenol-d6                  | 1.311 | 1.338 | -2.1 | 97    | 0.00     |
| 6       | bis(2-Chloroethyl)ether    | 1.207 | 1.157 | 4.1  | 101   | 0.00     |
| 7 I     | Naphthalene-d8             | 1.000 | 1.000 | 0.0  | 102   | 0.00     |
| 8 S     | Nitrobenzene-d5            | 0.436 | 0.413 | 5.3  | 105   | 0.00     |
| 9       | Naphthalene                | 1.182 | 1.150 | 2.7  | 102   | 0.00     |
| 10      | Hexachlorobutadiene        | 0.248 | 0.246 | 0.8  | 103   | -0.01    |
| 11 SURR | 2-Methylnaphthalene-d10    | 0.563 | 0.566 | -0.5 | 104   | 0.00     |
| 12      | 2-Methylnaphthalene        | 0.760 | 0.753 | 0.9  | 104   | 0.00     |
| 13 I    | Acenaphthene-d10           | 1.000 | 1.000 | 0.0  | 106   | 0.00     |
| 14 S    | 2,4,6-Tribromophenol       | 0.176 | 0.174 | 1.1  | 104   | 0.00     |
| 15 S    | 2-Fluorobiphenyl           | 1.832 | 1.858 | -1.4 | 104   | 0.00     |
| 16      | Acenaphthylene             | 1.947 | 1.845 | 5.2  | 103   | 0.00     |
| 17      | Acenaphthene               | 1.272 | 1.232 | 3.1  | 105   | 0.00     |
| 18      | Fluorene                   | 1.669 | 1.617 | 3.1  | 105   | 0.01     |
| 19 I    | Phenanthrene-d10           | 1.000 | 1.000 | 0.0  | 107   | 0.00     |
| 20      | 4,6-Dinitro-2-methylphenol | 0.090 | 0.077 | 14.4 | 112   | 0.00     |
| 21      | 4-Bromophenyl-phenylether  | 0.253 | 0.247 | 2.4  | 106   | 0.00     |
| 22      | Hexachlorobenzene          | 0.270 | 0.278 | -3.0 | 106   | 0.00     |
| 23      | Atrazine                   | 0.220 | 0.209 | 5.0  | 106   | 0.00     |
| 24      | Pentachlorophenol          | 0.149 | 0.125 | 16.1 | 95    | 0.00     |
| 25      | Phenanthrene               | 1.307 | 1.279 | 2.1  | 106   | 0.00     |
| 26      | Anthracene                 | 1.190 | 1.143 | 3.9  | 105   | 0.00     |
| 27 SURR | Fluoranthene-d10           | 1.097 | 1.054 | 3.9  | 105   | 0.00     |
| 28      | Fluoranthene               | 1.562 | 1.482 | 5.1  | 106   | 0.00     |
| 29 I    | Chrysene-d12               | 1.000 | 1.000 | 0.0  | 103   | 0.00     |
| 30      | Pyrene                     | 1.711 | 1.760 | -2.9 | 105   | 0.00     |
| 31 S    | Terphenyl-d14              | 0.856 | 0.888 | -3.7 | 105   | 0.00     |
| 32      | Benzo(a)anthracene         | 1.506 | 1.484 | 1.5  | 103   | 0.00     |
| 33      | Chrysene                   | 1.593 | 1.588 | 0.3  | 101   | 0.00     |
| 34      | Bis(2-ethylhexyl)phthalate | 0.927 | 0.896 | 3.3  | 102   | 0.00     |
| 35 I    | Perylene-d12               | 1.000 | 1.000 | 0.0  | 98    | 0.00     |
| 36      | Indeno(1,2,3-cd)pyrene     | 1.634 | 1.660 | -1.6 | 99    | 0.00     |
| 37      | Benzo(b)fluoranthene       | 1.659 | 1.621 | 2.3  | 99    | 0.00     |
| 38      | Benzo(k)fluoranthene       | 1.639 | 1.678 | -2.4 | 100   | 0.00     |
| 39 C    | Benzo(a)pyrene             | 1.407 | 1.391 | 1.1  | 99    | 0.00     |
| 40      | Dibenzo(a,h)anthracene     | 1.272 | 1.268 | 0.3  | 98    | 0.00     |
| 41      | Benzo(g,h,i)perylene       | 1.383 | 1.414 | -2.2 | 97    | 0.00     |

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN051425\  
 Data File : BN037006.D  
 Acq On : 13 May 2025 22:29  
 Operator : RC/JU  
 Sample : SSTDICV0.4  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 ICVBN051424

Quant Time: May 14 11:28:08 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN051425.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 14 11:26:32 2025  
 Response via : Initial Calibration

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

|         | Compound                   | Amount | Calc. | %Dev | Area% | Dev(min) |
|---------|----------------------------|--------|-------|------|-------|----------|
| 1 I     | 1,4-Dichlorobenzene-d4     | 0.400  | 0.400 | 0.0  | 100   | 0.00     |
| 2       | 1,4-Dioxane                | 0.400  | 0.407 | -1.7 | 98    | 0.00     |
| 3       | n-Nitrosodimethylamine     | 0.400  | 0.390 | 2.5  | 105   | 0.00     |
| 4 S     | 2-Fluorophenol             | 0.400  | 0.423 | -5.7 | 98    | 0.00     |
| 5 S     | Phenol-d6                  | 0.400  | 0.408 | -2.0 | 97    | 0.00     |
| 6       | bis(2-Chloroethyl)ether    | 0.400  | 0.383 | 4.3  | 101   | 0.00     |
| 7 I     | Naphthalene-d8             | 0.400  | 0.400 | 0.0  | 102   | 0.00     |
| 8 S     | Nitrobenzene-d5            | 0.400  | 0.379 | 5.3  | 105   | 0.00     |
| 9       | Naphthalene                | 0.400  | 0.389 | 2.8  | 102   | 0.00     |
| 10      | Hexachlorobutadiene        | 0.400  | 0.397 | 0.8  | 103   | -0.01    |
| 11 SURR | 2-Methylnaphthalene-d10    | 0.400  | 0.402 | -0.5 | 104   | 0.00     |
| 12      | 2-Methylnaphthalene        | 0.400  | 0.396 | 1.0  | 104   | 0.00     |
| 13 I    | Acenaphthene-d10           | 0.400  | 0.400 | 0.0  | 106   | 0.00     |
| 14 S    | 2,4,6-Tribromophenol       | 0.400  | 0.397 | 0.8  | 104   | 0.00     |
| 15 S    | 2-Fluorobiphenyl           | 0.400  | 0.406 | -1.5 | 104   | 0.00     |
| 16      | Acenaphthylene             | 0.400  | 0.379 | 5.3  | 103   | 0.00     |
| 17      | Acenaphthene               | 0.400  | 0.387 | 3.3  | 105   | 0.00     |
| 18      | Fluorene                   | 0.400  | 0.388 | 3.0  | 105   | 0.01     |
| 19 I    | Phenanthrene-d10           | 0.400  | 0.400 | 0.0  | 107   | 0.00     |
| 20      | 4,6-Dinitro-2-methylphenol | 0.400  | 0.396 | 1.0  | 112   | 0.00     |
| 21      | 4-Bromophenyl-phenylether  | 0.400  | 0.392 | 2.0  | 106   | 0.00     |
| 22      | Hexachlorobenzene          | 0.400  | 0.411 | -2.7 | 106   | 0.00     |
| 23      | Atrazine                   | 0.400  | 0.379 | 5.3  | 106   | 0.00     |
| 24      | Pentachlorophenol          | 0.400  | 0.336 | 16.0 | 95    | 0.00     |
| 25      | Phenanthrene               | 0.400  | 0.391 | 2.3  | 106   | 0.00     |
| 26      | Anthracene                 | 0.400  | 0.384 | 4.0  | 105   | 0.00     |
| 27 SURR | Fluoranthene-d10           | 0.400  | 0.384 | 4.0  | 105   | 0.00     |
| 28      | Fluoranthene               | 0.400  | 0.380 | 5.0  | 106   | 0.00     |
| 29 I    | Chrysene-d12               | 0.400  | 0.400 | 0.0  | 103   | 0.00     |
| 30      | Pyrene                     | 0.400  | 0.412 | -3.0 | 105   | 0.00     |
| 31 S    | Terphenyl-d14              | 0.400  | 0.415 | -3.7 | 105   | 0.00     |
| 32      | Benzo(a)anthracene         | 0.400  | 0.394 | 1.5  | 103   | 0.00     |
| 33      | Chrysene                   | 0.400  | 0.399 | 0.3  | 101   | 0.00     |
| 34      | Bis(2-ethylhexyl)phthalate | 0.400  | 0.387 | 3.3  | 102   | 0.00     |
| 35 I    | Perylene-d12               | 0.400  | 0.400 | 0.0  | 98    | 0.00     |
| 36      | Indeno(1,2,3-cd)pyrene     | 0.400  | 0.407 | -1.7 | 99    | 0.00     |
| 37      | Benzo(b)fluoranthene       | 0.400  | 0.391 | 2.3  | 99    | 0.00     |
| 38      | Benzo(k)fluoranthene       | 0.400  | 0.410 | -2.5 | 100   | 0.00     |
| 39 C    | Benzo(a)pyrene             | 0.400  | 0.395 | 1.3  | 99    | 0.00     |
| 40      | Dibenzo(a,h)anthracene     | 0.400  | 0.399 | 0.3  | 98    | 0.00     |
| 41      | Benzo(g,h,i)perylene       | 0.400  | 0.409 | -2.2 | 97    | 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.: Q2118 SAS No.: Q2118 SDG No.: Q2118

Instrument ID: BNA\_N Calibration Date/Time: 05/28/2025 10:41

Lab File ID: BN037102.D Init. Calib. Date(s): 05/13/2025 05/13/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 17:41 21:17

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

| COMPOUND                | RRF   | RRF0.4 | MIN<br>RRF | %D    | MAX%D |
|-------------------------|-------|--------|------------|-------|-------|
| 2-Methylnaphthalene-d10 | 0.563 | 0.578  |            | 2.7   | 20.0  |
| Fluoranthene-d10        | 1.097 | 0.983  |            | -10.4 | 20.0  |
| 2-Fluorophenol          | 1.048 | 0.917  |            | -12.5 | 20.0  |
| Phenol-d6               | 1.311 | 1.136  |            | -13.3 | 20.0  |
| Nitrobenzene-d5         | 0.436 | 0.404  |            | -7.3  | 20.0  |
| 2-Fluorobiphenyl        | 1.832 | 1.781  |            | -2.8  | 20.0  |
| 2,4,6-Tribromophenol    | 0.176 | 0.150  |            | -14.8 | 20.0  |
| Terphenyl-d14           | 0.856 | 0.973  |            | 13.7  | 20.0  |
| 1,4-Dioxane             | 0.491 | 0.461  |            | -6.1  | 20.0  |

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN052825\  
 Data File : BN037102.D  
 Acq On : 28 May 2025 10:41  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4

Quant Time: May 28 15:33:07 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN051425.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 14 11:26:32 2025  
 Response via : Initial Calibration

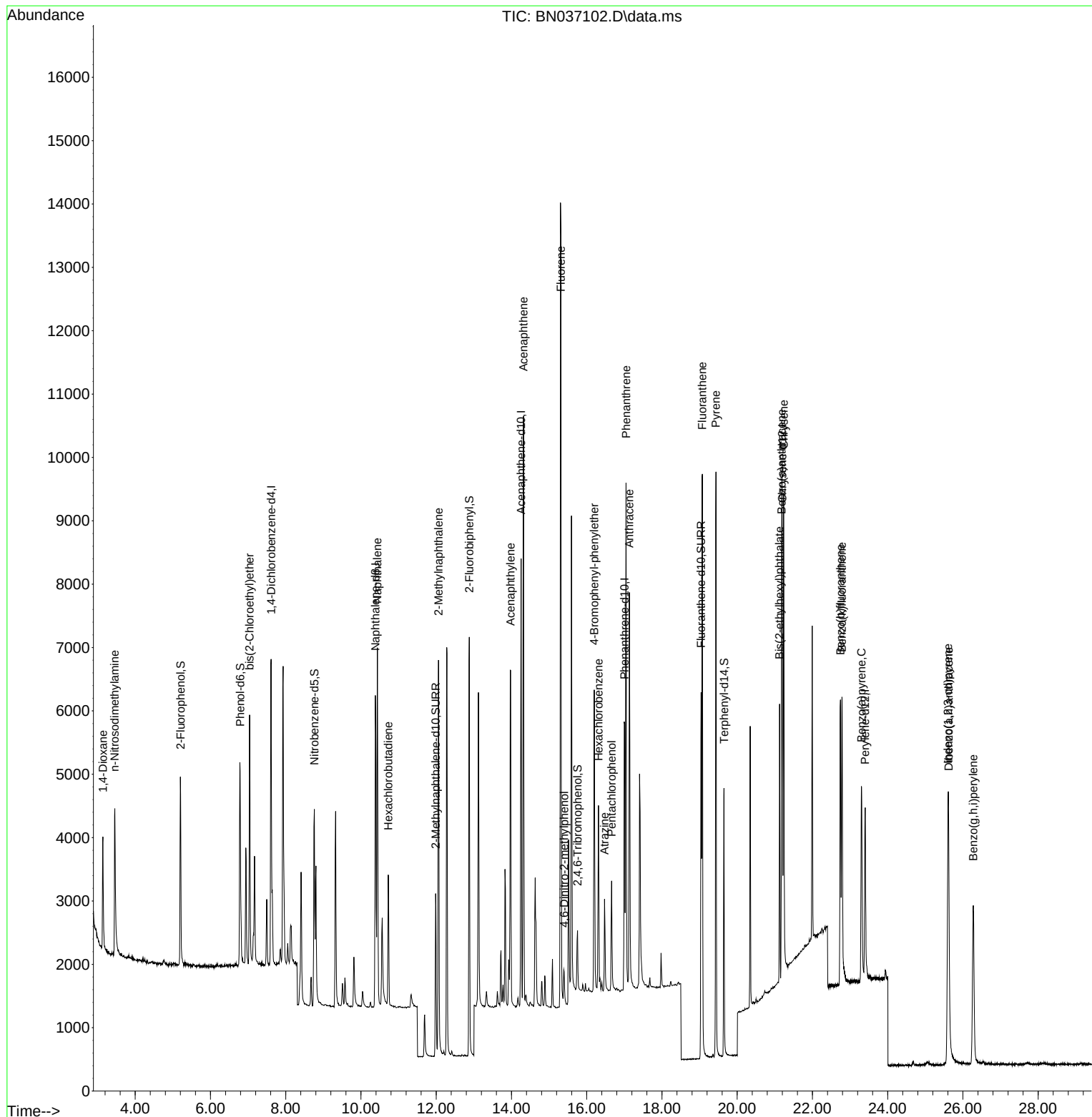
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.611  | 152  | 2360     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.383 | 136  | 6377     | 0.400 | ng    | #-0.02   |
| 13) Acenaphthene-d10          | 14.256 | 164  | 3563     | 0.400 | ng    | -0.01    |
| 19) Phenanthrene-d10          | 17.009 | 188  | 6602     | 0.400 | ng    | # 0.00   |
| 29) Chrysene-d12              | 21.197 | 240  | 4312     | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.398 | 264  | 3700     | 0.400 | ng    | -0.02    |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.206  | 112  | 2165     | 0.350 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.788  | 99   | 2680     | 0.346 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.760  | 82   | 2576     | 0.371 | ng    | -0.01    |
| 11) 2-Methylnaphthalene-d10   | 11.986 | 152  | 3687     | 0.411 | ng    | -0.01    |
| 14) 2,4,6-Tribromophenol      | 15.755 | 330  | 534      | 0.341 | ng    | -0.01    |
| 15) 2-Fluorobiphenyl          | 12.878 | 172  | 6346     | 0.389 | ng    | -0.01    |
| 27) Fluoranthene-d10          | 19.040 | 212  | 6492     | 0.359 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.649 | 244  | 4195     | 0.455 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
| 2) 1,4-Dioxane                | 3.140  | 88   | 1087     | 0.375 | ng    | 96       |
| 3) n-Nitrosodimethylamine     | 3.451  | 42   | 2337     | 0.376 | ng    | # 90     |
| 6) bis(2-Chloroethyl)ether    | 7.040  | 93   | 2693     | 0.378 | ng    | 98       |
| 9) Naphthalene                | 10.436 | 128  | 7124     | 0.378 | ng    | 99       |
| 10) Hexachlorobutadiene       | 10.725 | 225  | 1563     | 0.395 | ng    | # 99     |
| 12) 2-Methylnaphthalene       | 12.062 | 142  | 4564     | 0.377 | ng    | 99       |
| 16) Acenaphthylene            | 13.978 | 152  | 6382     | 0.368 | ng    | 100      |
| 17) Acenaphthene              | 14.320 | 154  | 4237     | 0.374 | ng    | 99       |
| 18) Fluorene                  | 15.314 | 166  | 5434     | 0.366 | ng    | 100      |
| 20) 4,6-Dinitro-2-methylph... | 15.400 | 198  | 477      | 0.376 | ng    | 93       |
| 21) 4-Bromophenyl-phenylether | 16.202 | 248  | 1644     | 0.394 | ng    | 98       |
| 22) Hexachlorobenzene         | 16.313 | 284  | 1847     | 0.414 | ng    | 98       |
| 23) Atrazine                  | 16.475 | 200  | 1271     | 0.349 | ng    | 96       |
| 24) Pentachlorophenol         | 16.661 | 266  | 835      | 0.339 | ng    | 96       |
| 25) Phenanthrene              | 17.046 | 178  | 7980     | 0.370 | ng    | 99       |
| 26) Anthracene                | 17.133 | 178  | 6993     | 0.356 | ng    | 100      |
| 28) Fluoranthene              | 19.073 | 202  | 8484     | 0.329 | ng    | 100      |
| 30) Pyrene                    | 19.435 | 202  | 8383     | 0.454 | ng    | 100      |
| 32) Benzo(a)anthracene        | 21.180 | 228  | 5842     | 0.360 | ng    | 98       |
| 33) Chrysene                  | 21.233 | 228  | 6693     | 0.390 | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 21.126 | 149  | 3719     | 0.372 | ng    | 99       |
| 36) Indeno(1,2,3-cd)pyrene    | 25.602 | 276  | 5695     | 0.377 | ng    | 98       |
| 37) Benzo(b)fluoranthene      | 22.743 | 252  | 5595     | 0.365 | ng    | 99       |
| 38) Benzo(k)fluoranthene      | 22.784 | 252  | 5974     | 0.394 | ng    | 99       |
| 39) Benzo(a)pyrene            | 23.301 | 252  | 4711     | 0.362 | ng    | 96       |
| 40) Dibenzo(a,h)anthracene    | 25.620 | 278  | 4353     | 0.370 | ng    | 98       |
| 41) Benzo(g,h,i)perylene      | 26.275 | 276  | 5040     | 0.394 | ng    | 98       |

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

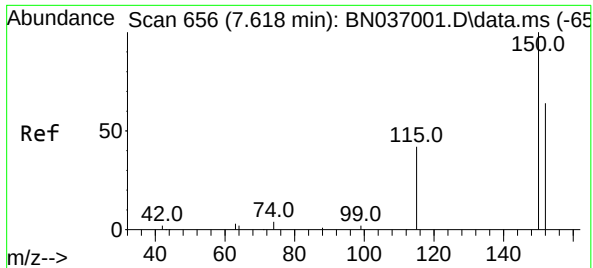
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN052825\  
 Data File : BN037102.D  
 Acq On : 28 May 2025 10:41  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4

Quant Time: May 28 15:33:07 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN051425.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 14 11:26:32 2025  
 Response via : Initial Calibration

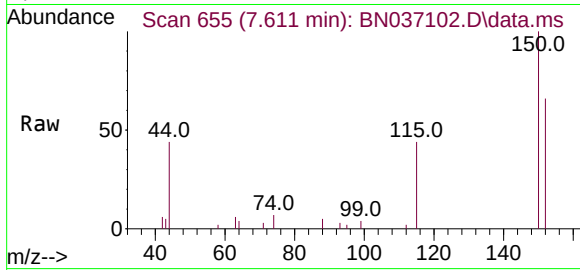




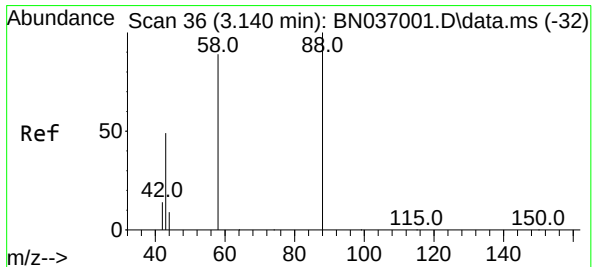
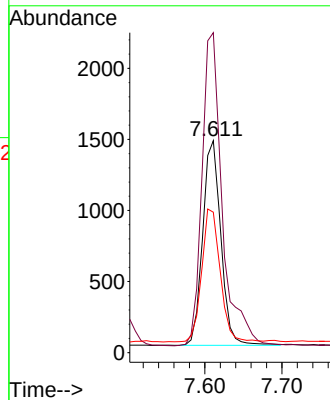
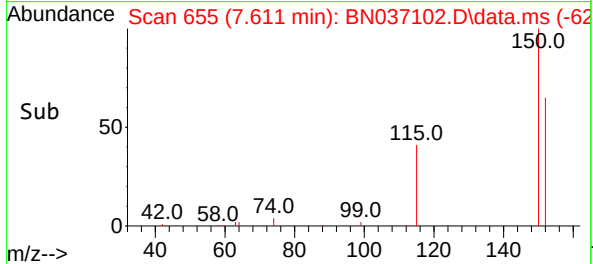


#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.611 min Scan# 61  
Delta R.T. -0.007 min  
Lab File: BN037102.D  
Acq: 28 May 2025 10:41

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

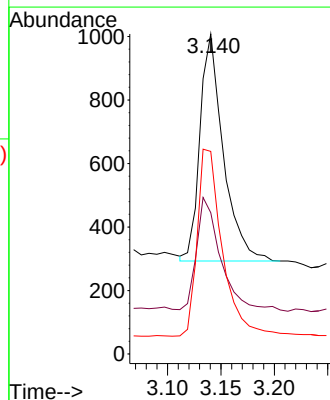
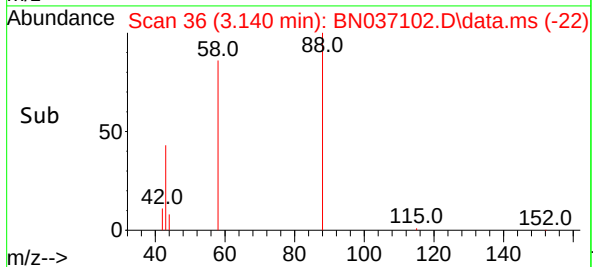
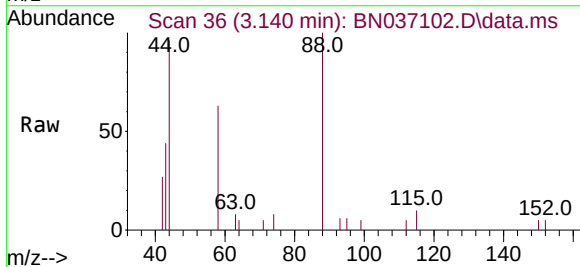


Tgt Ion:152 Resp: 2360  
Ion Ratio Lower Upper  
152 100  
150 151.0 123.9 185.9  
115 66.3 55.8 83.8

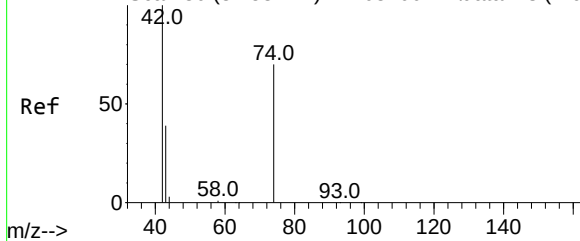


#2  
1,4-Dioxane  
Concen: 0.375 ng  
RT: 3.140 min Scan# 36  
Delta R.T. 0.000 min  
Lab File: BN037102.D  
Acq: 28 May 2025 10:41

Tgt Ion: 88 Resp: 1087  
Ion Ratio Lower Upper  
88 100  
43 50.3 37.4 56.0  
58 88.7 68.8 103.2



Abundance Scan 80 (3.458 min): BN037001.D\data.ms (-76)



#3

n-Nitrosodimethylamine

Concen: 0.376 ng

RT: 3.451 min Scan# 79

Delta R.T. -0.007 min

Lab File: BN037102.D

Acq: 28 May 2025 10:41

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion: 42 Resp: 2337

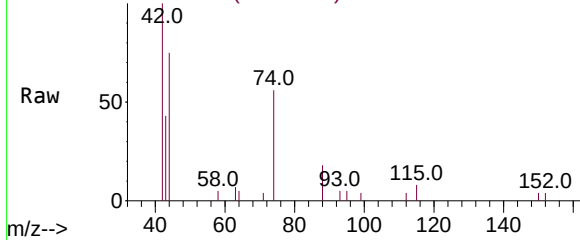
Ion Ratio Lower Upper

42 100

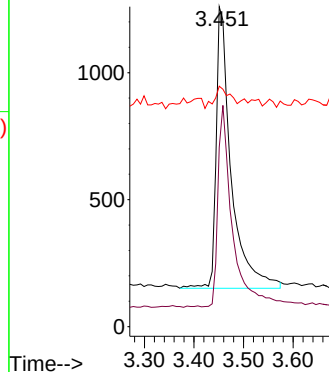
74 67.8 59.8 89.6

44 7.8 11.9 17.9#

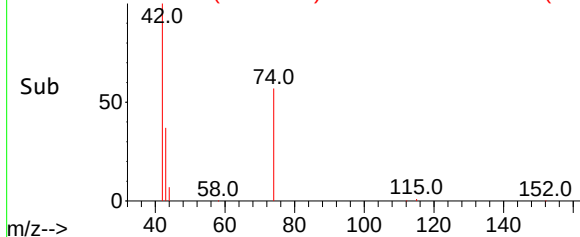
Abundance Scan 79 (3.451 min): BN037102.D\data.ms



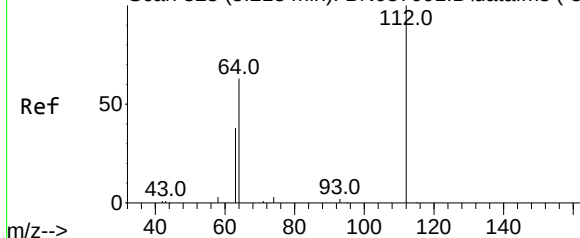
Abundance



Abundance Scan 79 (3.451 min): BN037102.D\data.ms (-59)



Abundance Scan 323 (5.213 min): BN037001.D\data.ms (-31)



#4

2-Fluorophenol

Concen: 0.350 ng

RT: 5.206 min Scan# 322

Delta R.T. -0.007 min

Lab File: BN037102.D

Acq: 28 May 2025 10:41

Tgt Ion: 112 Resp: 2165

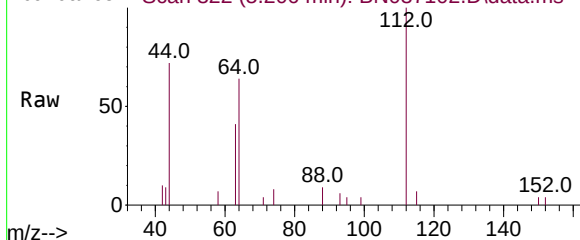
Ion Ratio Lower Upper

112 100

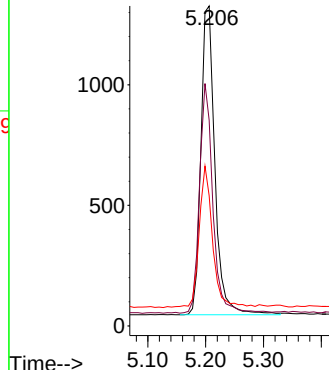
64 71.0 55.7 83.5

63 44.0 34.6 51.8

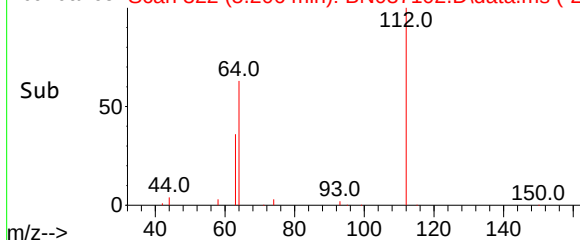
Abundance Scan 322 (5.206 min): BN037102.D\data.ms

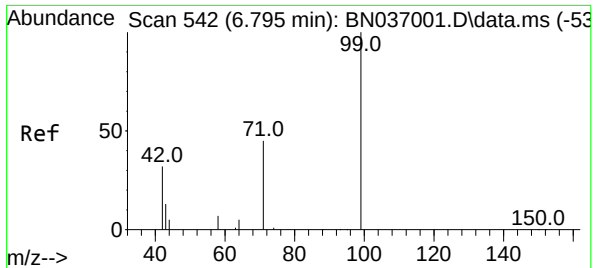


Abundance



Abundance Scan 322 (5.206 min): BN037102.D\data.ms (-29)

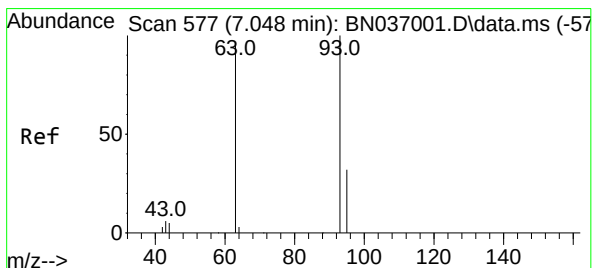
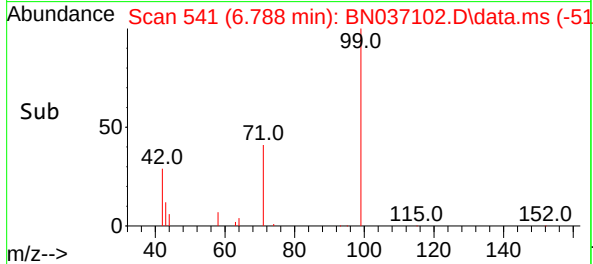
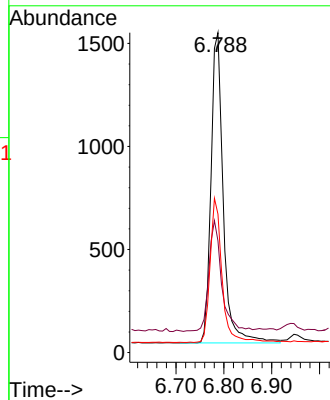
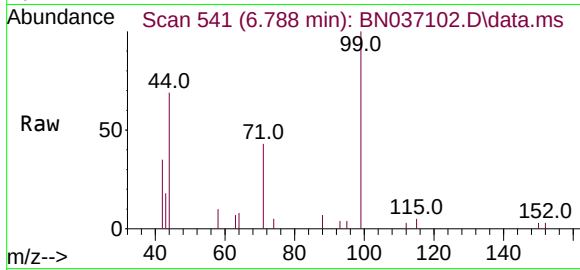




#5  
Phenol-d6  
Concen: 0.346 ng  
RT: 6.788 min Scan# 541  
Delta R.T. -0.007 min  
Lab File: BN037102.D  
Acq: 28 May 2025 10:41

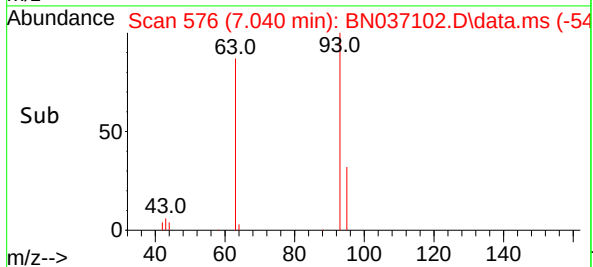
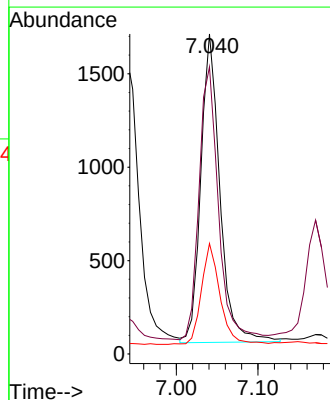
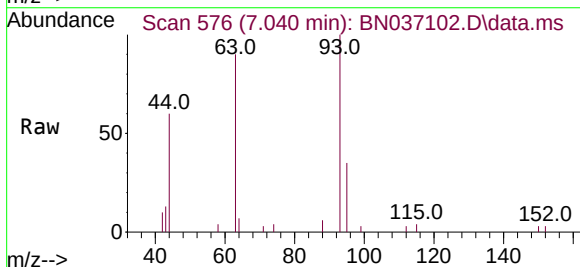
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

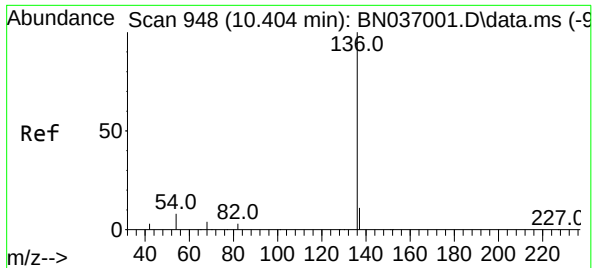
Tgt Ion: 99 Resp: 2680  
Ion Ratio Lower Upper  
99 100  
42 37.3 29.3 43.9  
71 45.7 35.7 53.5



#6  
bis(2-Chloroethyl)ether  
Concen: 0.378 ng  
RT: 7.040 min Scan# 576  
Delta R.T. -0.007 min  
Lab File: BN037102.D  
Acq: 28 May 2025 10:41

Tgt Ion: 93 Resp: 2693  
Ion Ratio Lower Upper  
93 100  
63 89.3 70.1 105.1  
95 31.7 26.2 39.2

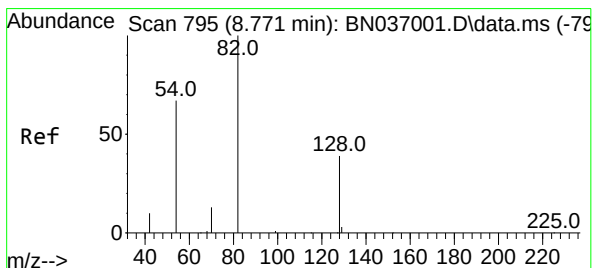
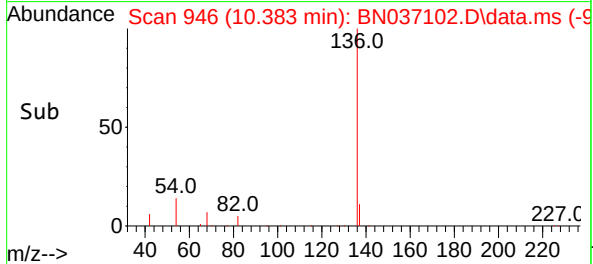
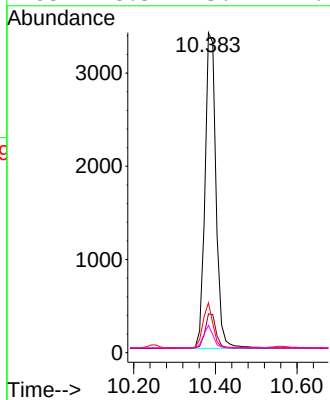
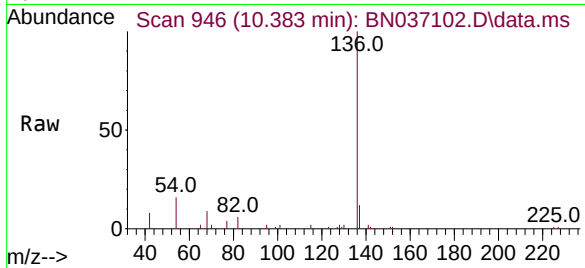




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.383 min Scan# 948  
Delta R.T. -0.021 min  
Lab File: BN037102.D  
Acq: 28 May 2025 10:41

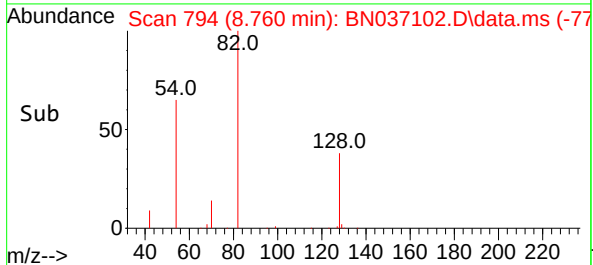
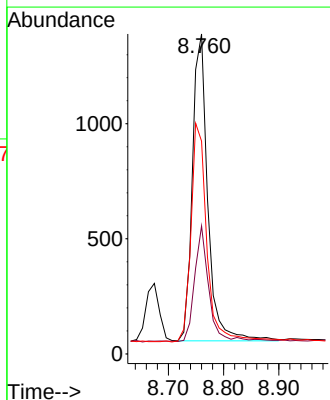
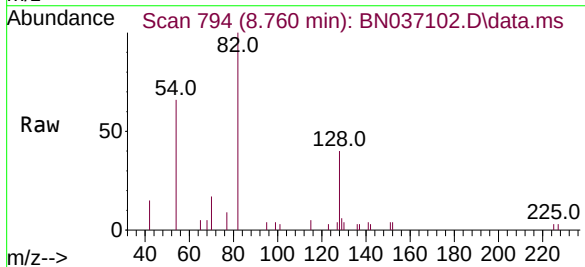
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

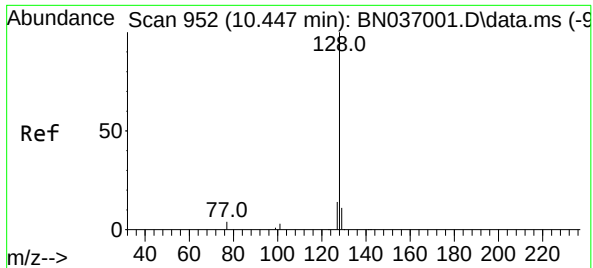
| Tgt Ion | 136   | Resp  | 6377  |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 136     | 100   |       |       |
| 137     | 12.1  | 10.4  | 15.6  |
| 54      | 15.6  | 8.5   | 12.7# |
| 68      | 8.5   | 5.1   | 7.7#  |



#8  
Nitrobenzene-d5  
Concen: 0.371 ng  
RT: 8.760 min Scan# 794  
Delta R.T. -0.011 min  
Lab File: BN037102.D  
Acq: 28 May 2025 10:41

| Tgt Ion | 82    | Resp  | 2576  |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 82      | 100   |       |       |
| 128     | 40.0  | 34.0  | 51.0  |
| 54      | 66.5  | 55.0  | 82.4  |

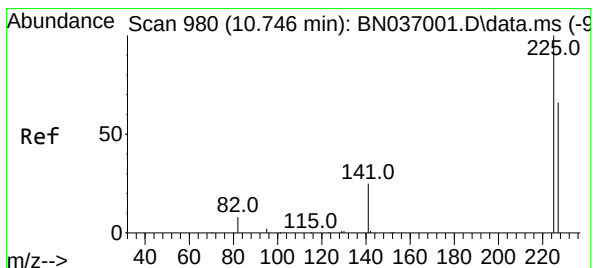
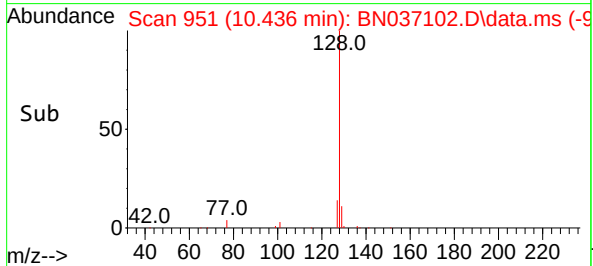
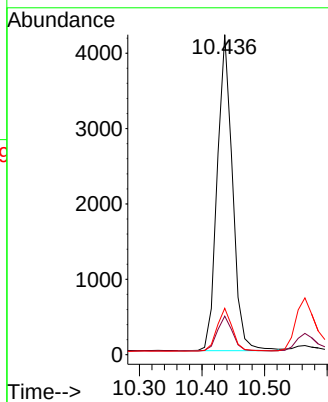
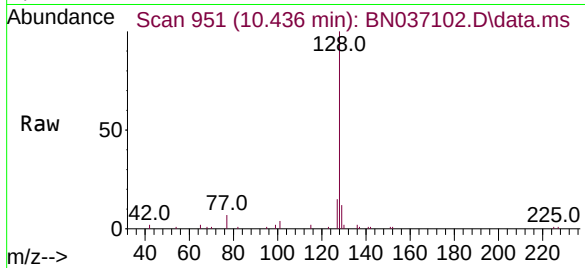




#9  
Naphthalene  
Concen: 0.378 ng  
RT: 10.436 min Scan# 91  
Delta R.T. -0.011 min  
Lab File: BN037102.D  
Acq: 28 May 2025 10:41

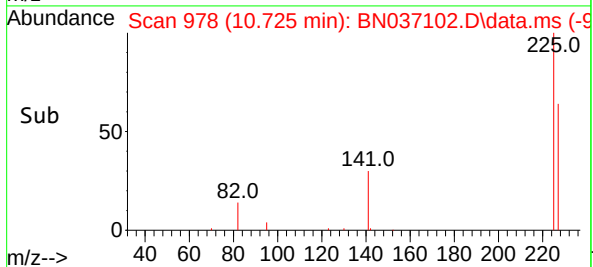
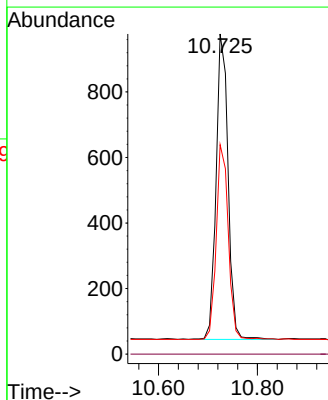
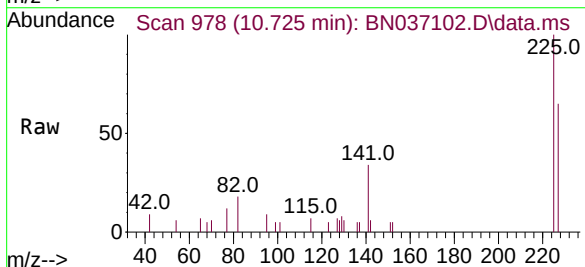
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

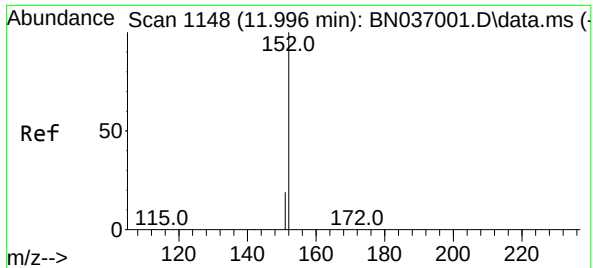
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 12.1  | 9.7   | 14.5  |
| 127     | 14.5  | 12.4  | 18.6  |



#10  
Hexachlorobutadiene  
Concen: 0.395 ng  
RT: 10.725 min Scan# 978  
Delta R.T. -0.021 min  
Lab File: BN037102.D  
Acq: 28 May 2025 10:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 0.0   | 0.0   | 0.0   |
| 227     | 64.0  | 50.9  | 76.3  |

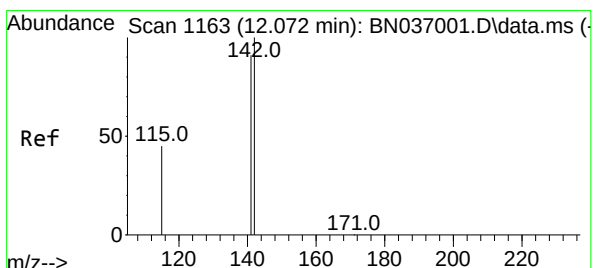
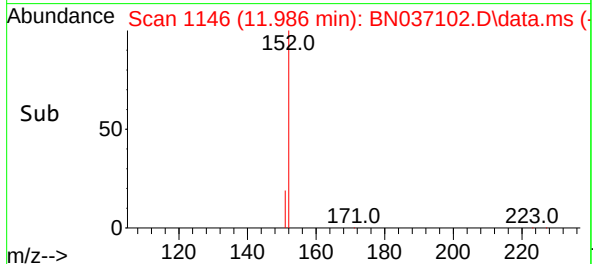
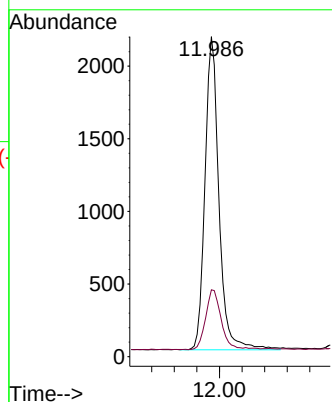
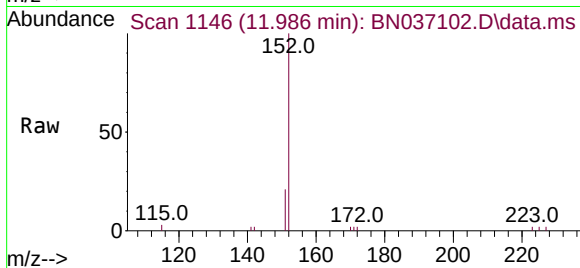




#11  
2-Methylnaphthalene-d10  
Concen: 0.411 ng  
RT: 11.986 min Scan# 1146  
Delta R.T. -0.010 min  
Lab File: BN037102.D  
Acq: 28 May 2025 10:41

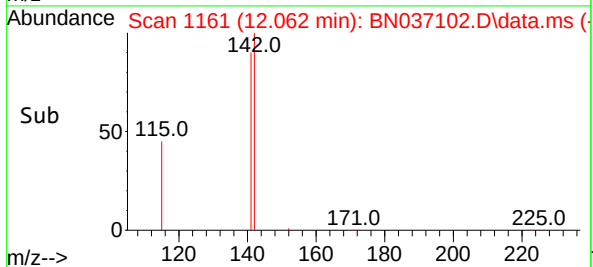
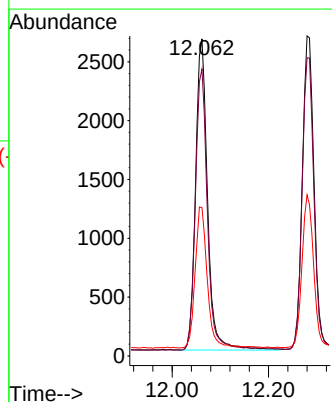
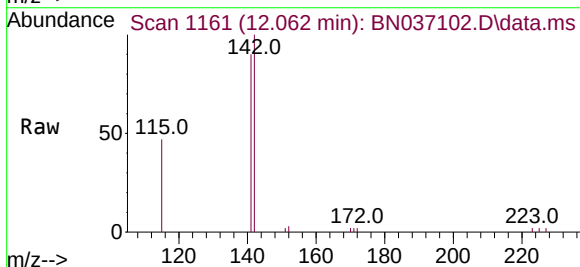
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

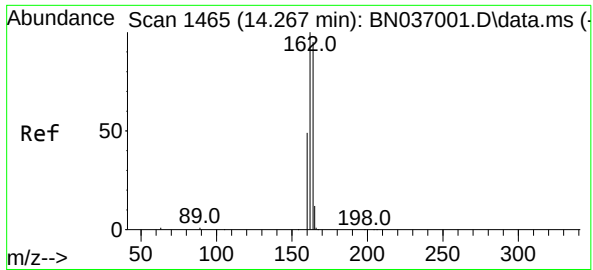
Tgt Ion:152 Resp: 3687  
Ion Ratio Lower Upper  
152 100  
151 21.5 17.5 26.3



#12  
2-Methylnaphthalene  
Concen: 0.377 ng  
RT: 12.062 min Scan# 1161  
Delta R.T. -0.010 min  
Lab File: BN037102.D  
Acq: 28 May 2025 10:41

Tgt Ion:142 Resp: 4564  
Ion Ratio Lower Upper  
142 100  
141 90.5 73.3 109.9  
115 46.8 38.4 57.6

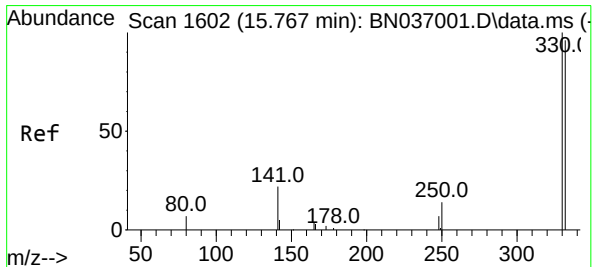
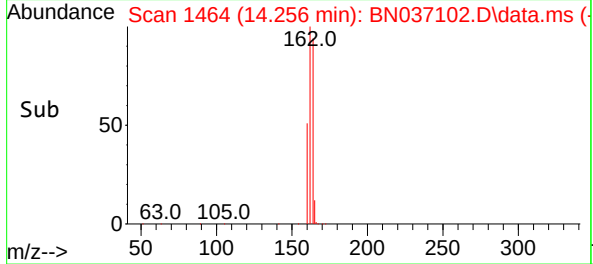
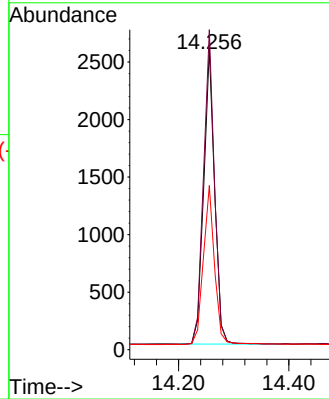
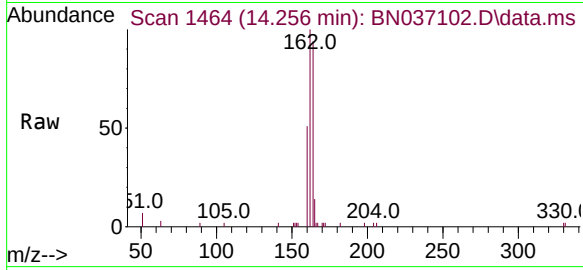




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.256 min Scan# 1464  
Delta R.T. -0.011 min  
Lab File: BN037102.D  
Acq: 28 May 2025 10:41

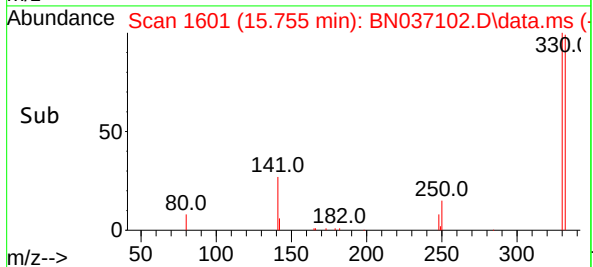
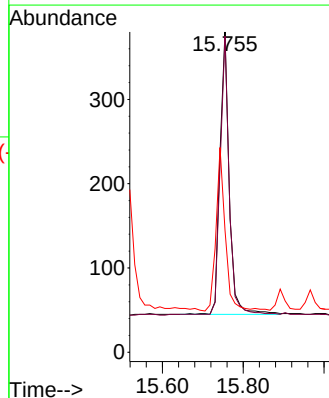
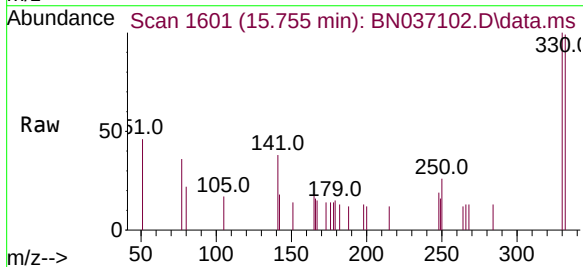
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

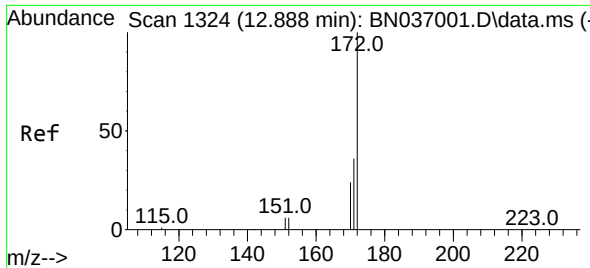
Tgt Ion:164 Resp: 3563  
Ion Ratio Lower Upper  
164 100  
162 106.2 84.2 126.4  
160 54.5 42.6 63.8



#14  
2,4,6-Tribromophenol  
Concen: 0.341 ng  
RT: 15.755 min Scan# 1601  
Delta R.T. -0.012 min  
Lab File: BN037102.D  
Acq: 28 May 2025 10:41

Tgt Ion:330 Resp: 534  
Ion Ratio Lower Upper  
330 100  
332 94.8 73.8 110.8  
141 57.9 43.9 65.9

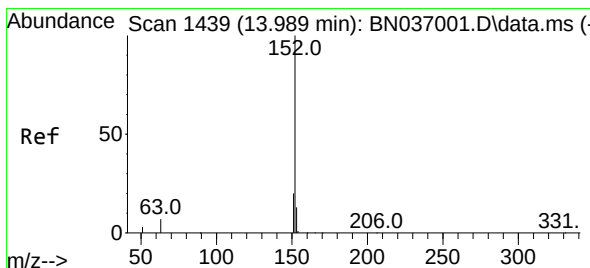
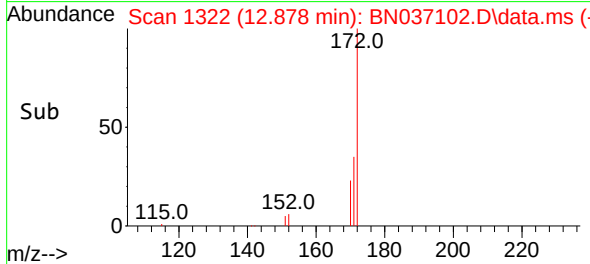
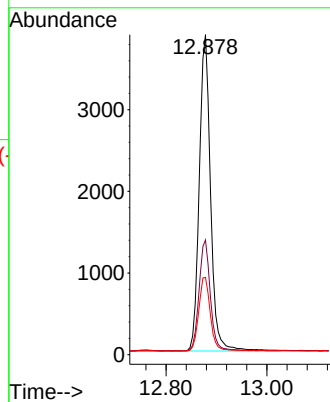
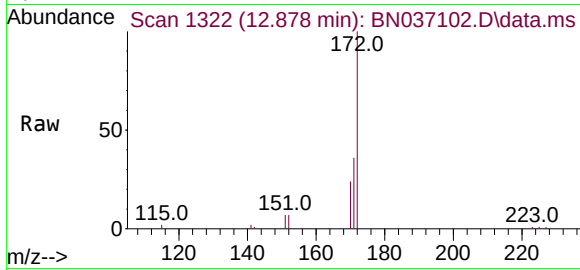




#15  
2-Fluorobiphenyl  
Concen: 0.389 ng  
RT: 12.878 min Scan# 11  
Delta R.T. -0.010 min  
Lab File: BN037102.D  
Acq: 28 May 2025 10:41

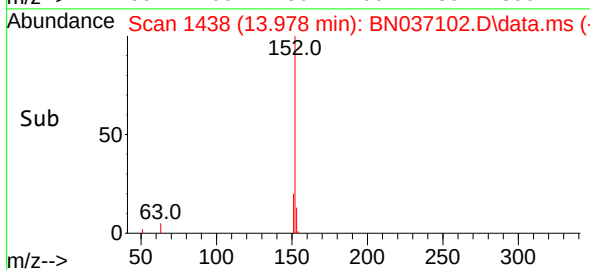
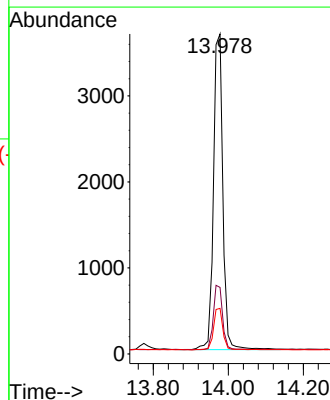
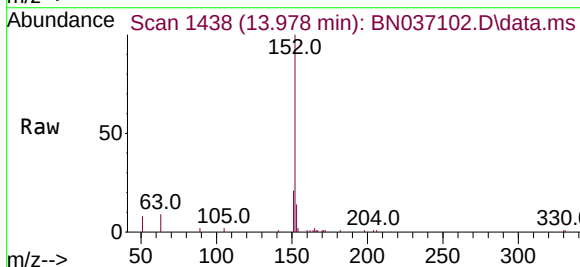
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.9  | 29.2  | 43.8  |
| 170     | 24.1  | 20.5  | 30.7  |

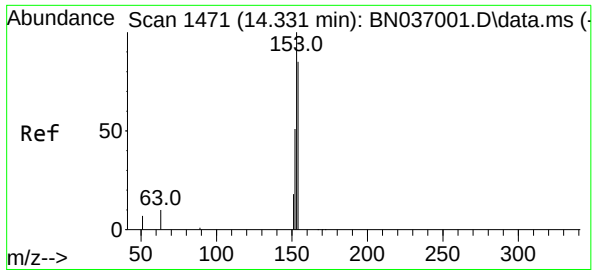


#16  
Acenaphthylene  
Concen: 0.368 ng  
RT: 13.978 min Scan# 1438  
Delta R.T. -0.011 min  
Lab File: BN037102.D  
Acq: 28 May 2025 10:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 20.2  | 16.1  | 24.1  |
| 153     | 13.2  | 10.5  | 15.7  |



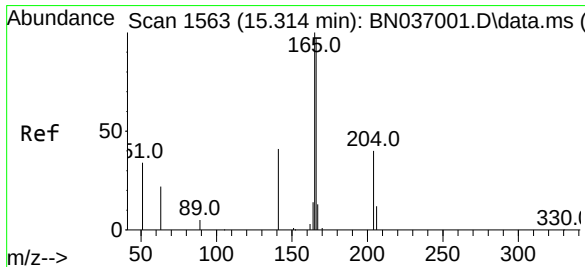
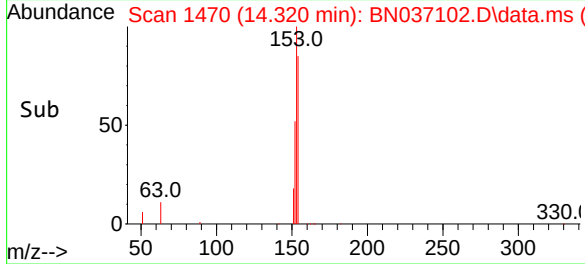
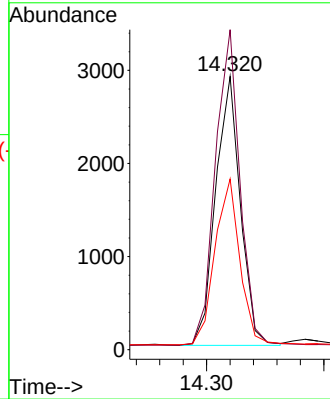
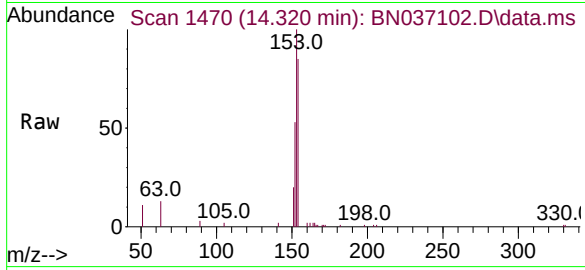




#17  
Acenaphthene  
Concen: 0.374 ng  
RT: 14.320 min Scan# 1471  
Delta R.T. -0.011 min  
Lab File: BN037102.D  
Acq: 28 May 2025 10:41

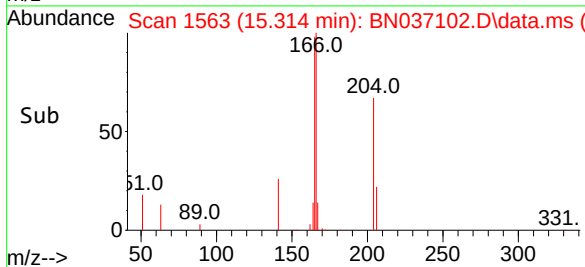
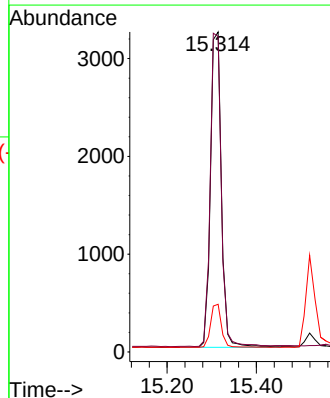
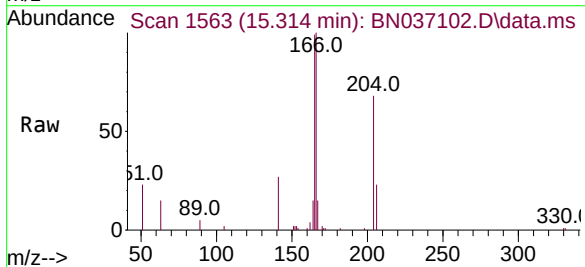
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

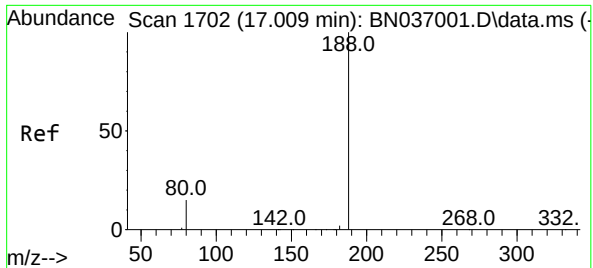
Tgt Ion:154 Resp: 4237  
Ion Ratio Lower Upper  
154 100  
153 117.2 94.2 141.4  
152 62.7 49.4 74.0



#18  
Fluorene  
Concen: 0.366 ng  
RT: 15.314 min Scan# 1563  
Delta R.T. 0.000 min  
Lab File: BN037102.D  
Acq: 28 May 2025 10:41

Tgt Ion:166 Resp: 5434  
Ion Ratio Lower Upper  
166 100  
165 100.6 80.6 120.8  
167 13.8 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.009 min Scan# 11

Delta R.T. 0.000 min

Lab File: BN037102.D

Acq: 28 May 2025 10:41

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

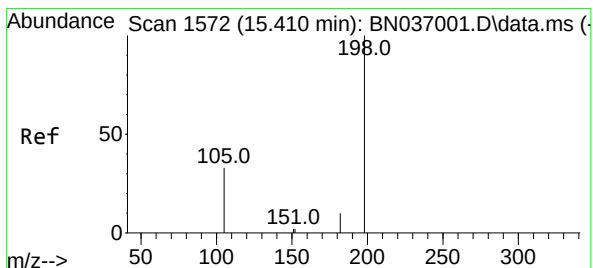
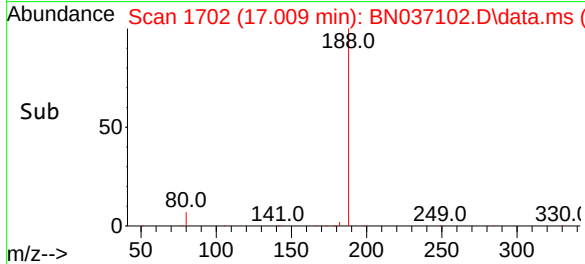
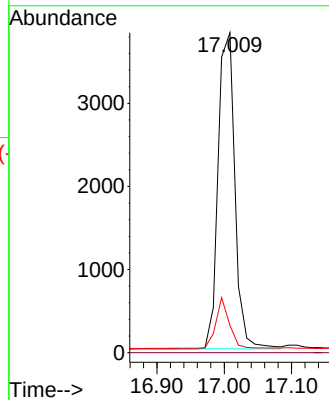
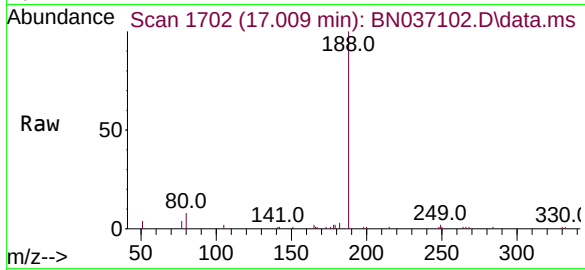
Tgt Ion:188 Resp: 6602

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.5 13.4 20.0#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.376 ng

RT: 15.400 min Scan# 1571

Delta R.T. -0.010 min

Lab File: BN037102.D

Acq: 28 May 2025 10:41

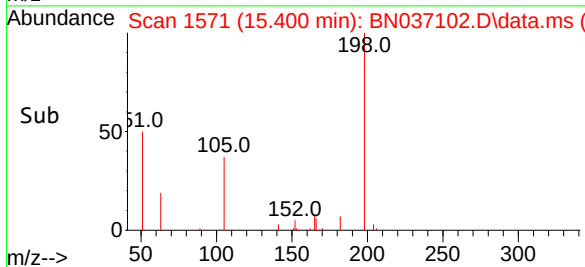
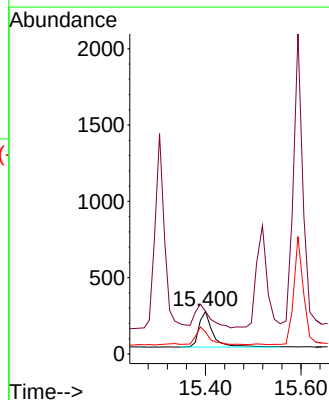
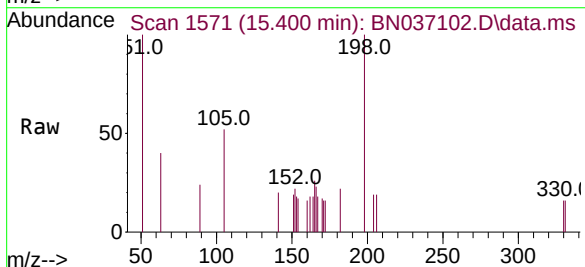
Tgt Ion:198 Resp: 477

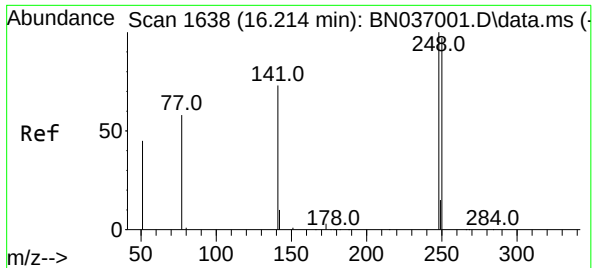
Ion Ratio Lower Upper

198 100

51 100.4 87.8 131.6

105 52.0 44.2 66.4

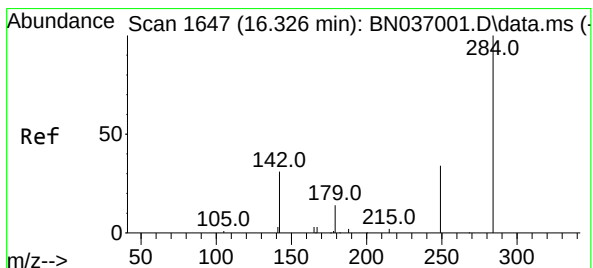
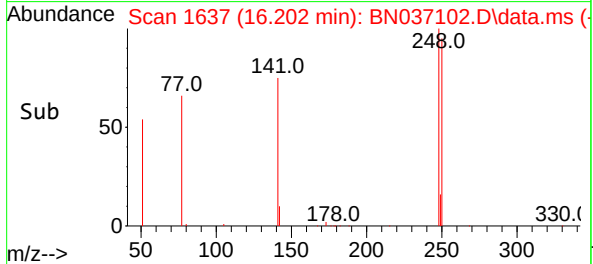
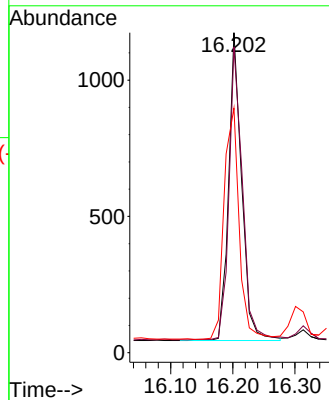
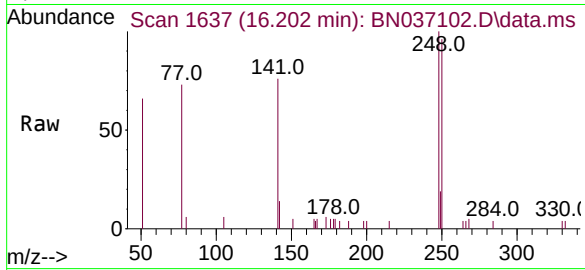




#21  
4-Bromophenyl-phenylether  
Concen: 0.394 ng  
RT: 16.202 min Scan# 1637  
Delta R.T. -0.012 min  
Lab File: BN037102.D  
Acq: 28 May 2025 10:41

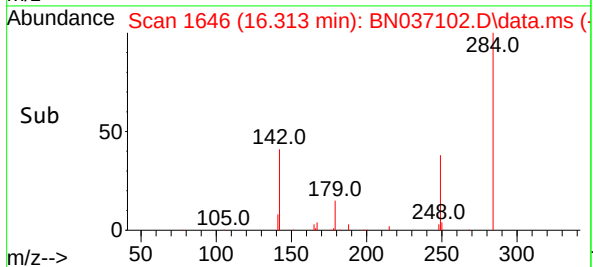
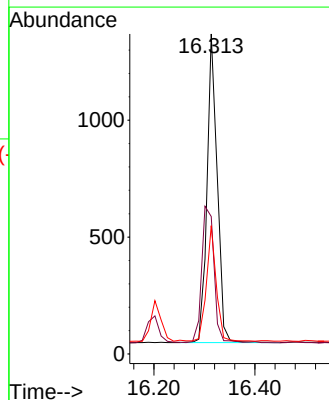
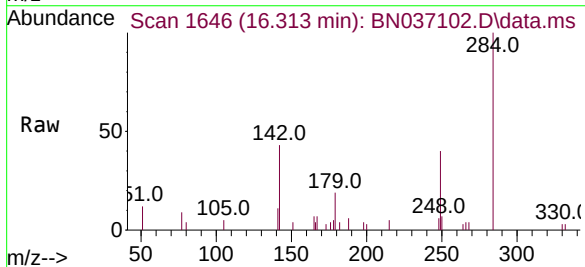
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

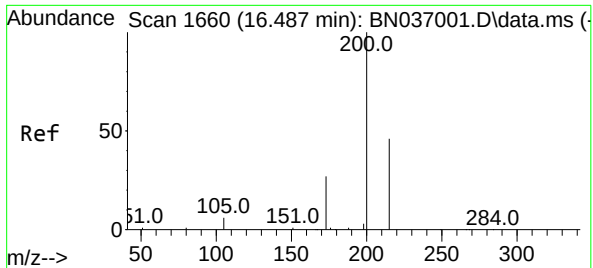
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 248     | 100   |       |       |
| 250     | 95.6  | 78.1  | 117.1 |
| 141     | 76.4  | 59.7  | 89.5  |



#22  
Hexachlorobenzene  
Concen: 0.414 ng  
RT: 16.313 min Scan# 1646  
Delta R.T. -0.012 min  
Lab File: BN037102.D  
Acq: 28 May 2025 10:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 284     | 100   |       |       |
| 142     | 54.0  | 41.2  | 61.8  |
| 249     | 36.2  | 28.7  | 43.1  |

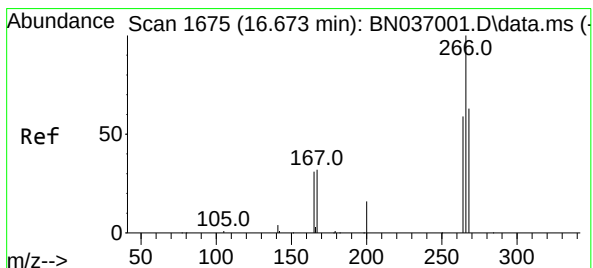
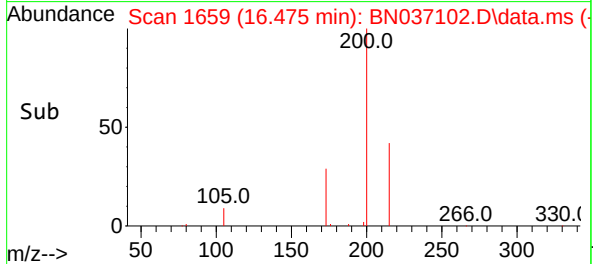
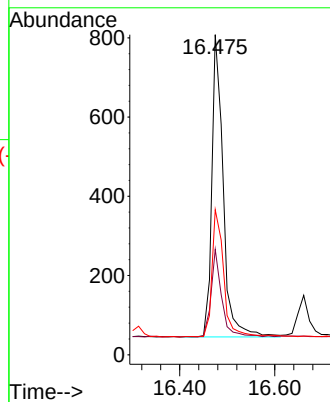
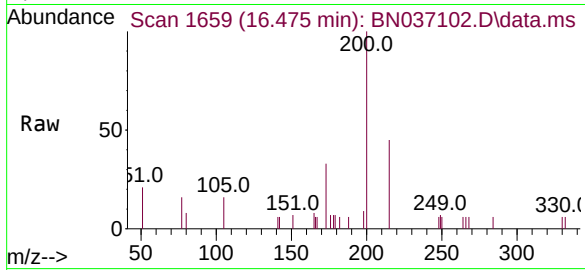




#23  
Atrazine  
Concen: 0.349 ng  
RT: 16.475 min Scan# 1659  
Delta R.T. -0.012 min  
Lab File: BN037102.D  
Acq: 28 May 2025 10:41

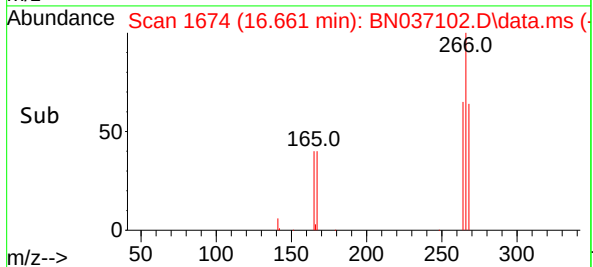
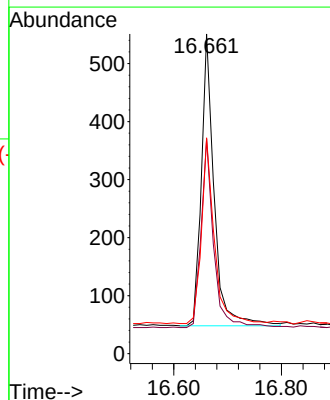
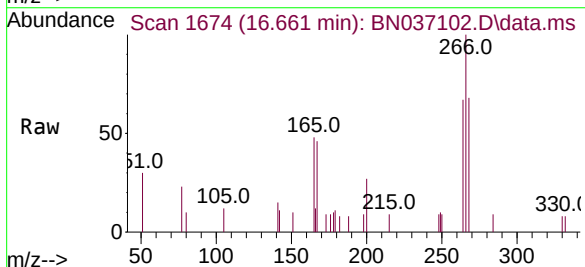
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

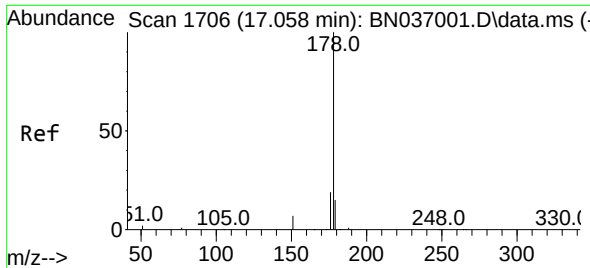
Tgt Ion:200 Resp: 1271  
Ion Ratio Lower Upper  
200 100  
173 32.9 25.2 37.8  
215 45.3 39.3 58.9



#24  
Pentachlorophenol  
Concen: 0.339 ng  
RT: 16.661 min Scan# 1674  
Delta R.T. -0.012 min  
Lab File: BN037102.D  
Acq: 28 May 2025 10:41

Tgt Ion:266 Resp: 835  
Ion Ratio Lower Upper  
266 100  
264 63.8 47.9 71.9  
268 64.0 50.0 75.0

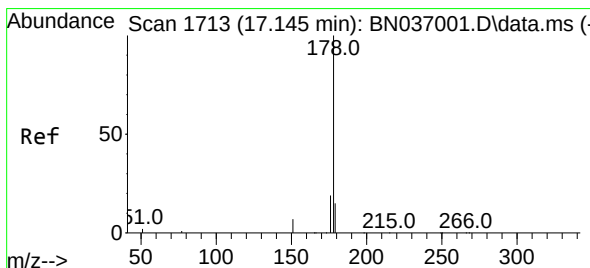
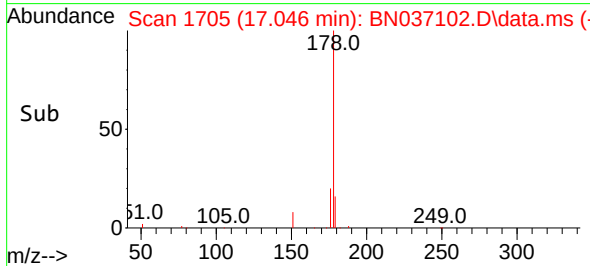
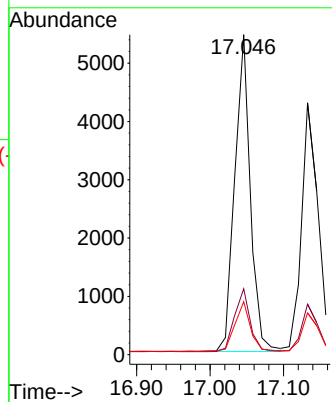
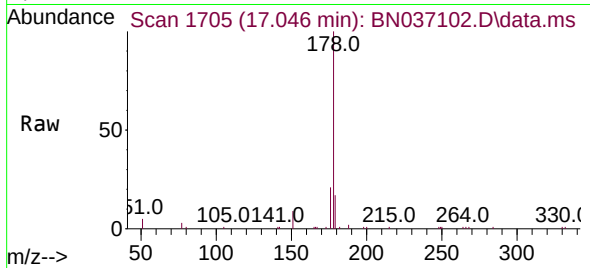




#25  
Phenanthrene  
Concen: 0.370 ng  
RT: 17.046 min Scan# 1711  
Delta R.T. -0.012 min  
Lab File: BN037102.D  
Acq: 28 May 2025 10:41

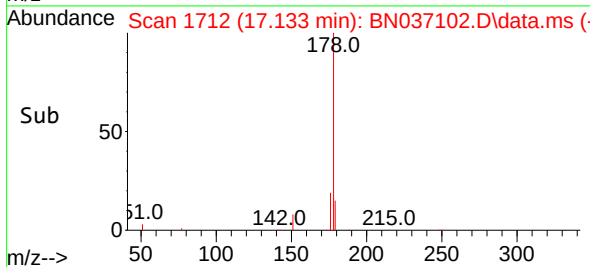
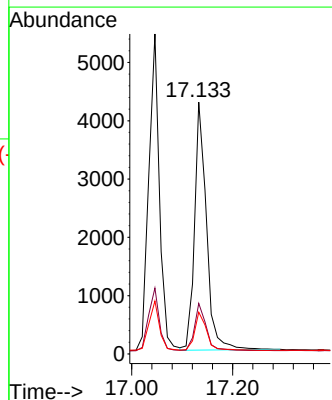
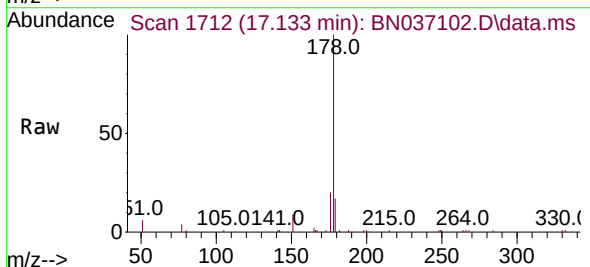
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

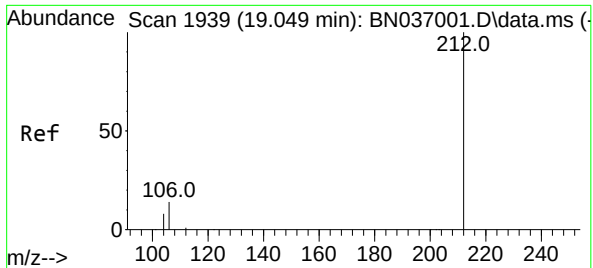
Tgt Ion:178 Resp: 7980  
Ion Ratio Lower Upper  
178 100  
176 20.0 15.7 23.5  
179 15.8 12.2 18.2



#26  
Anthracene  
Concen: 0.356 ng  
RT: 17.133 min Scan# 1712  
Delta R.T. -0.012 min  
Lab File: BN037102.D  
Acq: 28 May 2025 10:41

Tgt Ion:178 Resp: 6993  
Ion Ratio Lower Upper  
178 100  
176 18.8 15.0 22.6  
179 15.3 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.359 ng

RT: 19.040 min Scan# 1937

Delta R.T. -0.009 min

Lab File: BN037102.D

Acq: 28 May 2025 10:41

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

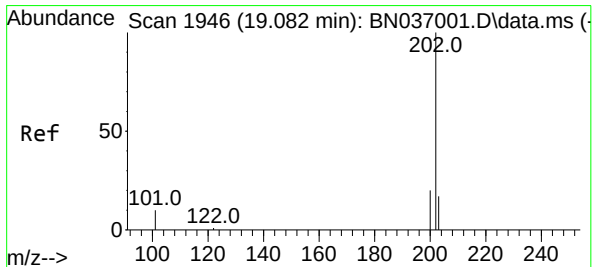
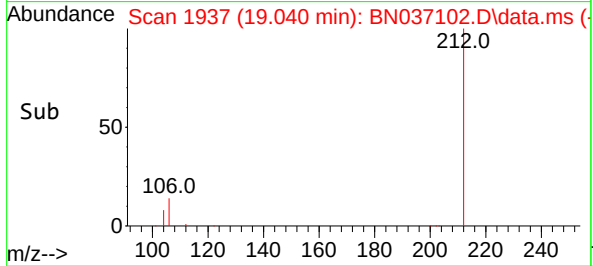
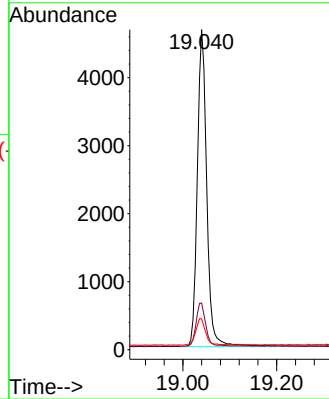
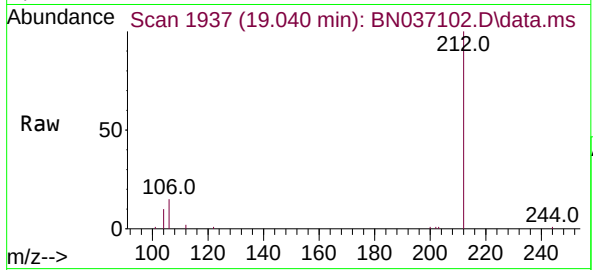
Tgt Ion:212 Resp: 6492

Ion Ratio Lower Upper

212 100

106 14.0 11.3 16.9

104 8.6 6.7 10.1



#28

Fluoranthene

Concen: 0.329 ng

RT: 19.073 min Scan# 1944

Delta R.T. -0.009 min

Lab File: BN037102.D

Acq: 28 May 2025 10:41

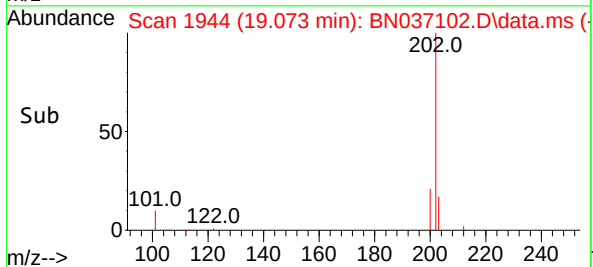
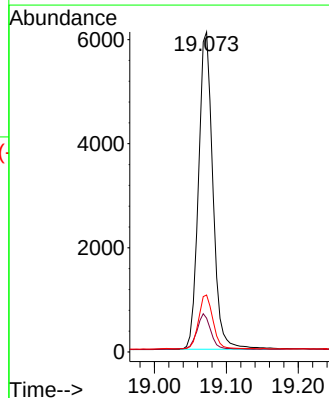
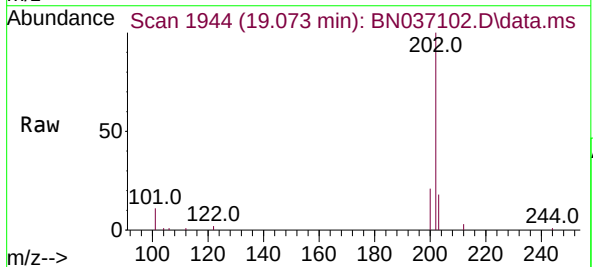
Tgt Ion:202 Resp: 8484

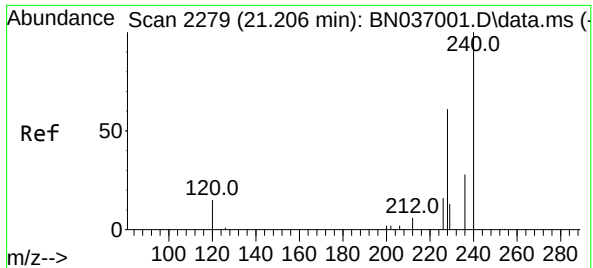
Ion Ratio Lower Upper

202 100

101 11.3 8.9 13.3

203 17.1 13.8 20.8

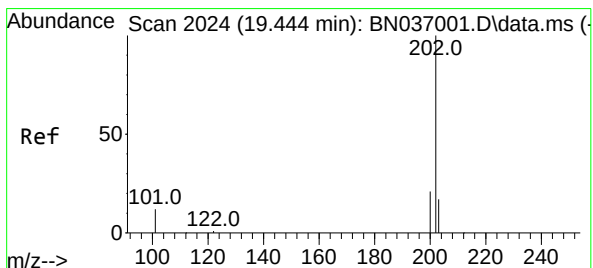
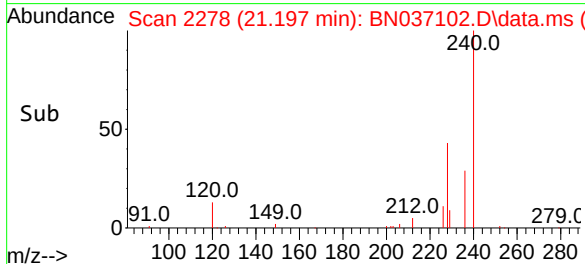
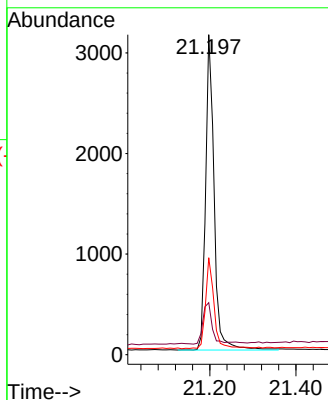
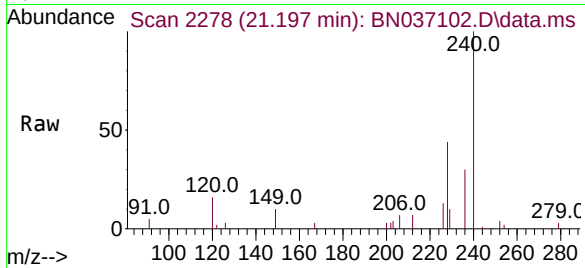




#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.197 min Scan# 21  
Delta R.T. -0.009 min  
Lab File: BN037102.D  
Acq: 28 May 2025 10:41

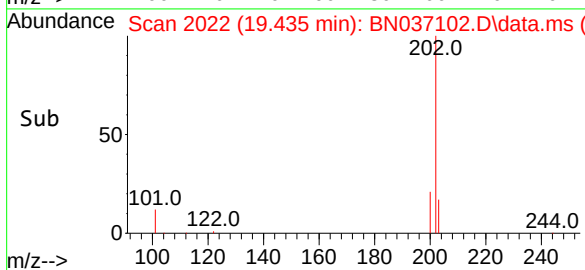
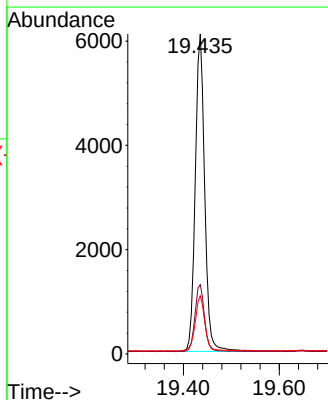
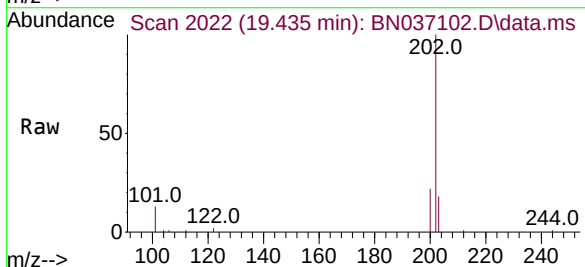
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

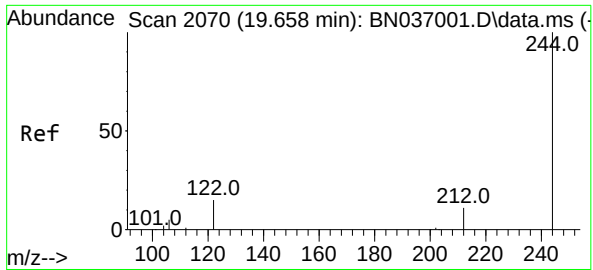
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 16.3  | 15.1  | 22.7  |
| 236     | 30.3  | 24.0  | 36.0  |



#30  
Pyrene  
Concen: 0.454 ng  
RT: 19.435 min Scan# 2022  
Delta R.T. -0.009 min  
Lab File: BN037102.D  
Acq: 28 May 2025 10:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 21.1  | 17.1  | 25.7  |
| 203     | 17.9  | 14.2  | 21.4  |

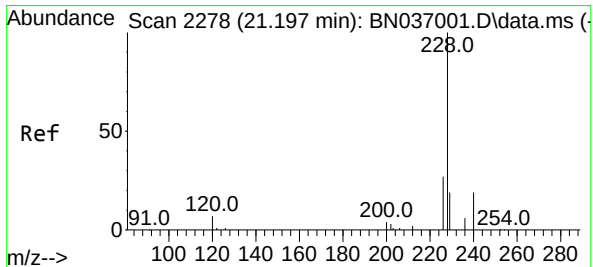
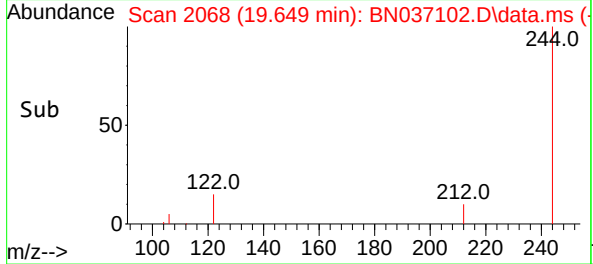
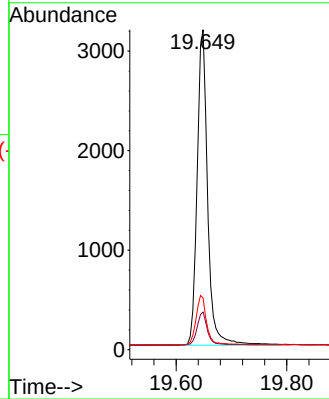
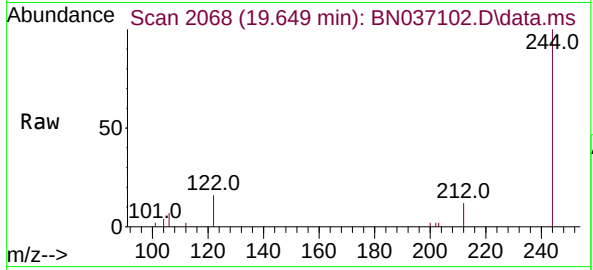




#31  
Terphenyl-d14  
Concen: 0.455 ng  
RT: 19.649 min Scan# 2068  
Delta R.T. -0.009 min  
Lab File: BN037102.D  
Acq: 28 May 2025 10:41

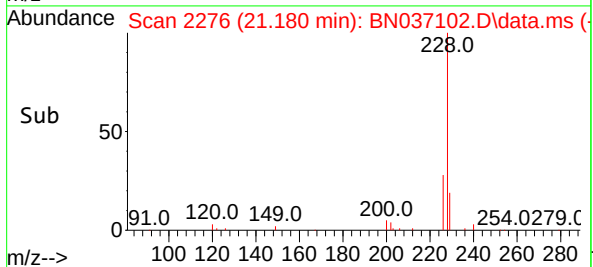
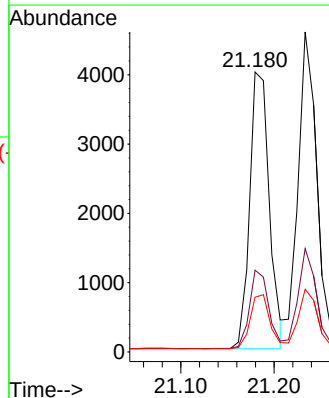
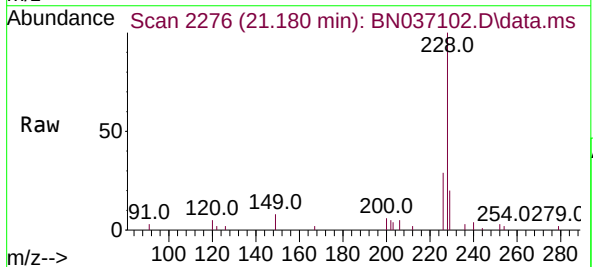
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

Tgt Ion:244 Resp: 4195  
Ion Ratio Lower Upper  
244 100  
212 11.8 9.7 14.5  
122 16.2 13.4 20.0

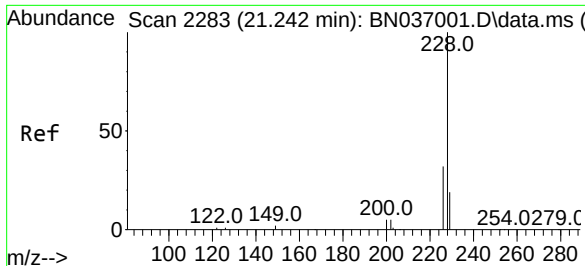


#32  
Benzo(a)anthracene  
Concen: 0.360 ng  
RT: 21.180 min Scan# 2276  
Delta R.T. -0.018 min  
Lab File: BN037102.D  
Acq: 28 May 2025 10:41

Tgt Ion:228 Resp: 5842  
Ion Ratio Lower Upper  
228 100  
226 29.2 22.2 33.4  
229 19.6 16.0 24.0



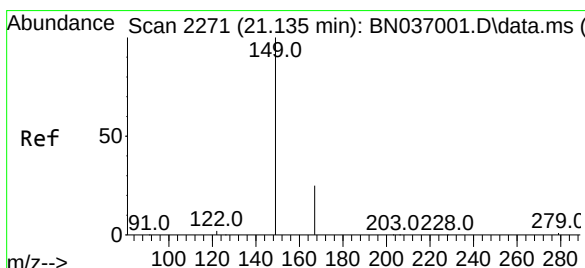
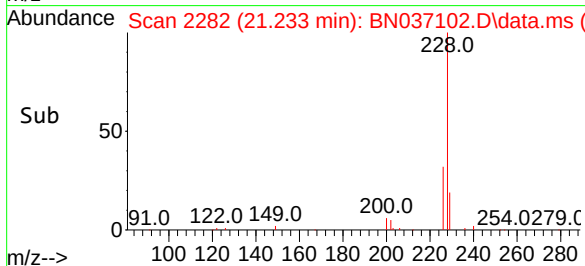
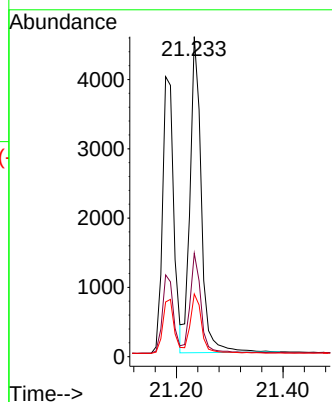
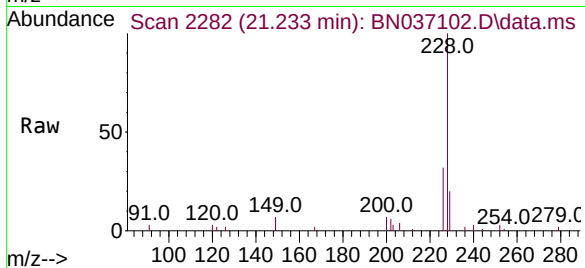




#33  
Chrysene  
Concen: 0.390 ng  
RT: 21.233 min Scan# 21  
Delta R.T. -0.009 min  
Lab File: BN037102.D  
Acq: 28 May 2025 10:41

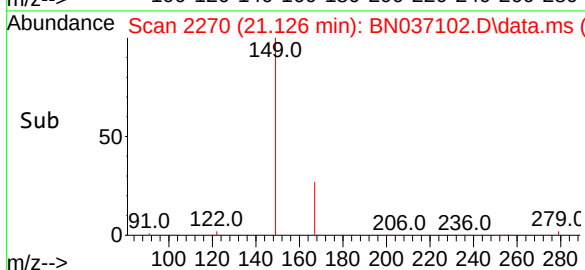
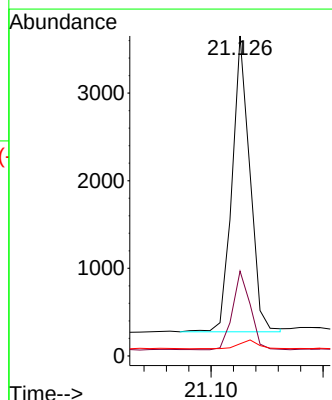
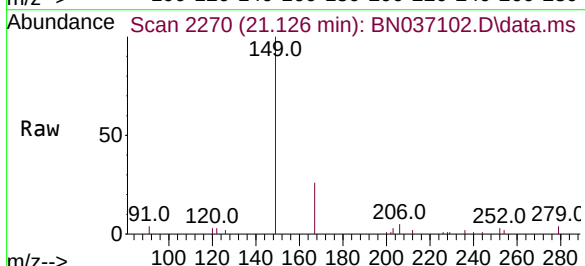
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

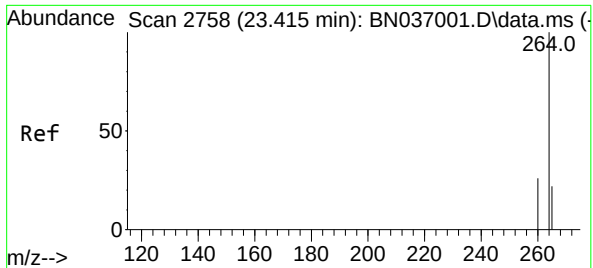
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 32.3  | 26.3  | 39.5  |
| 229     | 19.6  | 16.2  | 24.2  |



#34  
Bis(2-ethylhexyl)phthalate  
Concen: 0.372 ng  
RT: 21.126 min Scan# 2270  
Delta R.T. -0.009 min  
Lab File: BN037102.D  
Acq: 28 May 2025 10:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 26.4  | 20.6  | 30.8  |
| 279     | 3.3   | 2.6   | 3.8   |

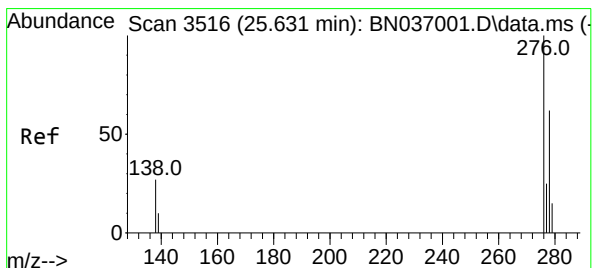
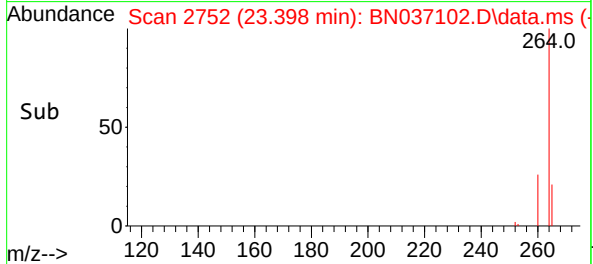
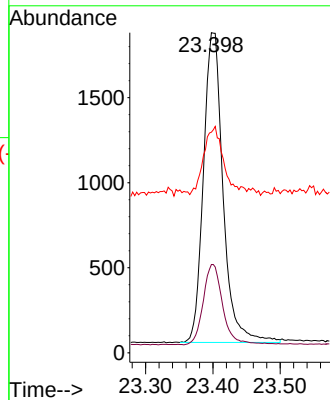
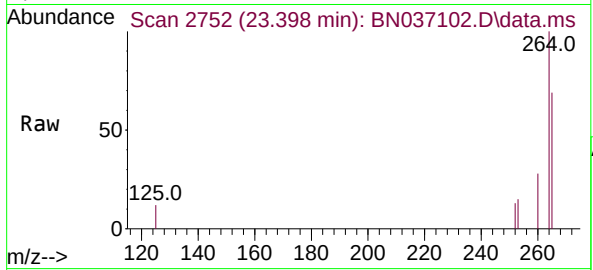




#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.398 min Scan# 21  
Delta R.T. -0.018 min  
Lab File: BN037102.D  
Acq: 28 May 2025 10:41

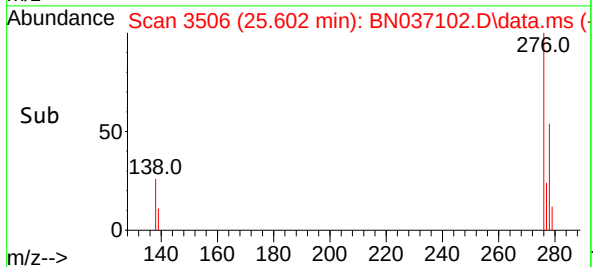
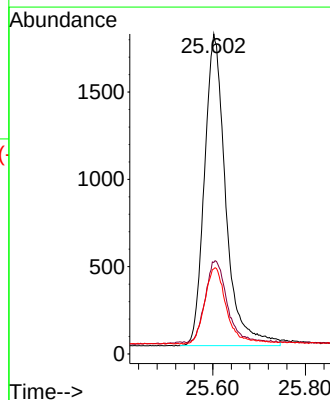
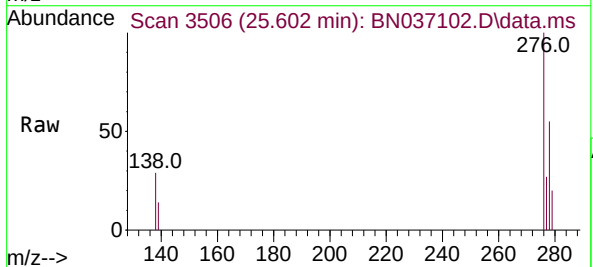
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

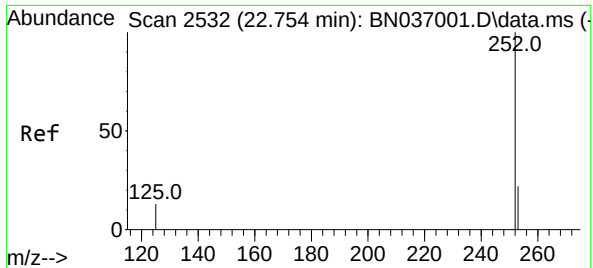
Tgt Ion:264 Resp: 3700  
Ion Ratio Lower Upper  
264 100  
260 27.6 21.9 32.9  
265 68.9 51.6 77.4



#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.377 ng  
RT: 25.602 min Scan# 3506  
Delta R.T. -0.029 min  
Lab File: BN037102.D  
Acq: 28 May 2025 10:41

Tgt Ion:276 Resp: 5695  
Ion Ratio Lower Upper  
276 100  
138 27.0 22.7 34.1  
277 24.6 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 0.365 ng

RT: 22.743 min Scan# 2528

Delta R.T. -0.012 min

Lab File: BN037102.D

Acq: 28 May 2025 10:41

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

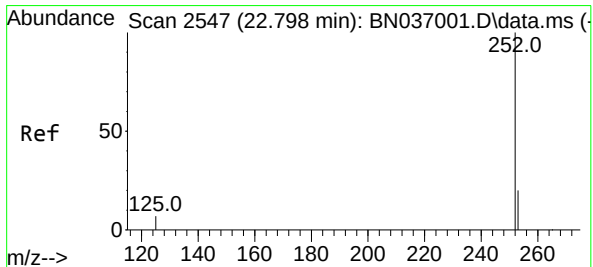
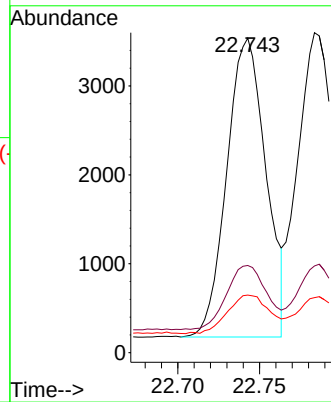
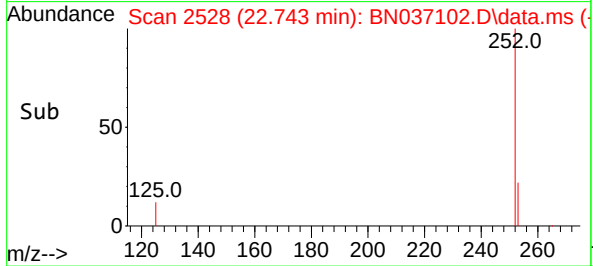
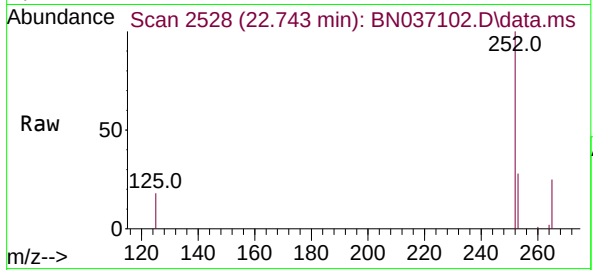
Tgt Ion:252 Resp: 5595

Ion Ratio Lower Upper

252 100

253 27.7 21.8 32.6

125 18.3 14.6 21.8



#38

Benzo(k)fluoranthene

Concen: 0.394 ng

RT: 22.784 min Scan# 2542

Delta R.T. -0.015 min

Lab File: BN037102.D

Acq: 28 May 2025 10:41

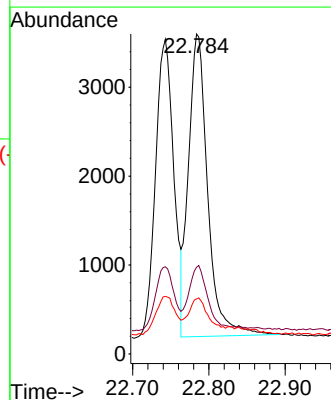
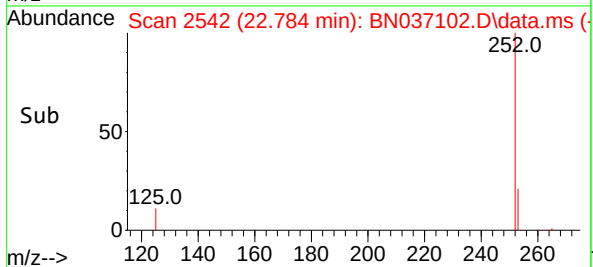
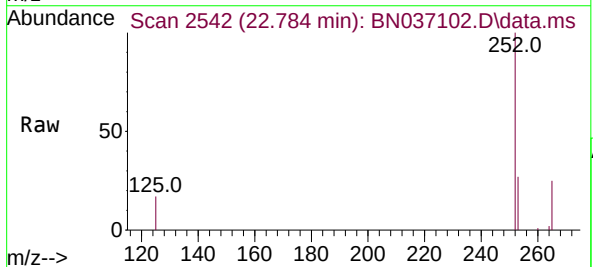
Tgt Ion:252 Resp: 5974

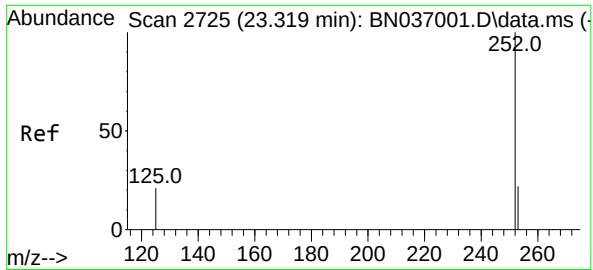
Ion Ratio Lower Upper

252 100

253 27.1 21.4 32.2

125 17.2 13.0 19.4





#39

Benzo(a)pyrene

Concen: 0.362 ng

RT: 23.301 min Scan# 21

Delta R.T. -0.018 min

Lab File: BN037102.D

Acq: 28 May 2025 10:41

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

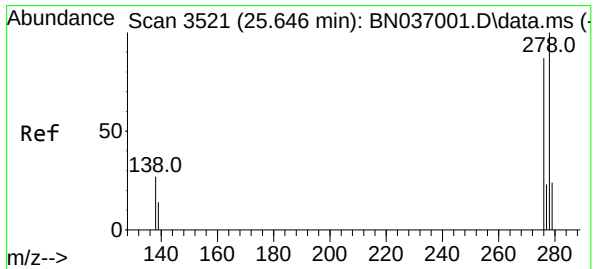
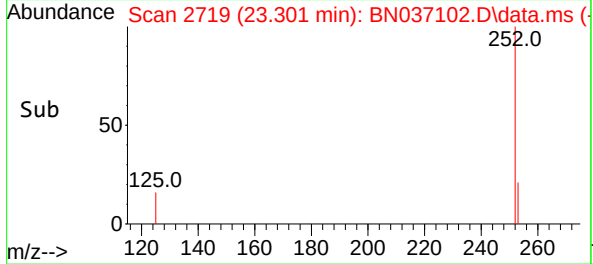
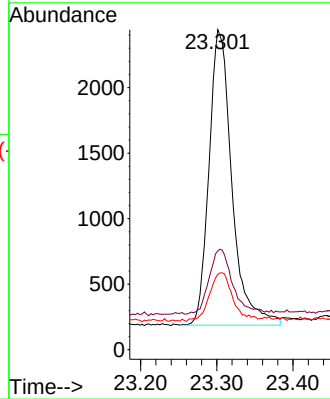
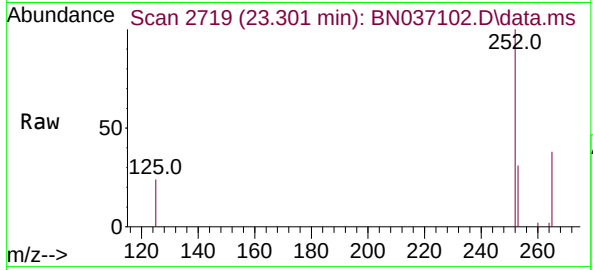
Tgt Ion:252 Resp: 4711

Ion Ratio Lower Upper

252 100

253 30.8 23.8 35.6

125 23.5 21.8 32.6



#40

Dibenzo(a,h)anthracene

Concen: 0.370 ng

RT: 25.620 min Scan# 3512

Delta R.T. -0.026 min

Lab File: BN037102.D

Acq: 28 May 2025 10:41

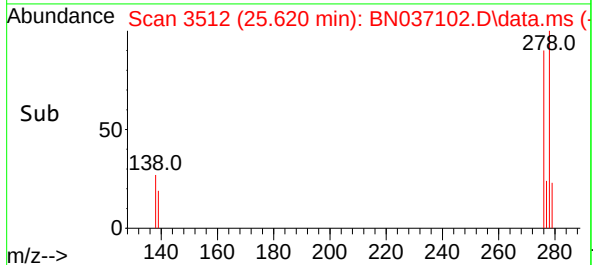
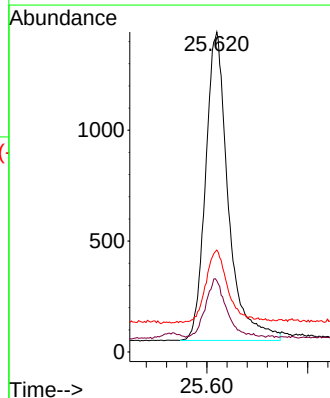
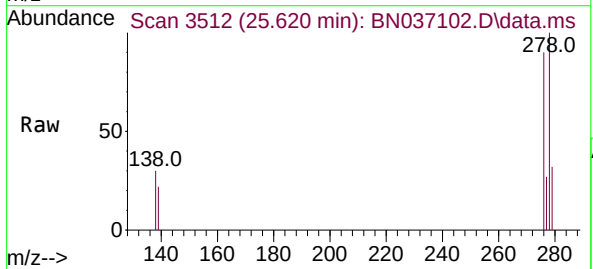
Tgt Ion:278 Resp: 4353

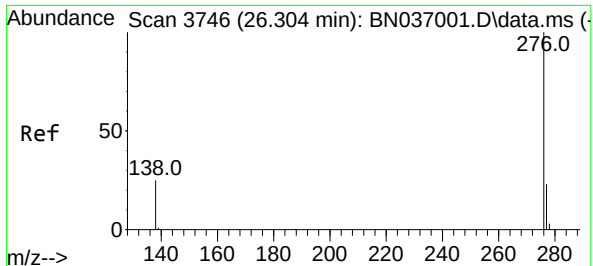
Ion Ratio Lower Upper

278 100

139 22.2 17.4 26.0

279 31.9 24.6 37.0





#41

Benzo(g,h,i)perylene

Concen: 0.394 ng

RT: 26.275 min Scan# 31

Delta R.T. -0.029 min

Lab File: BN037102.D

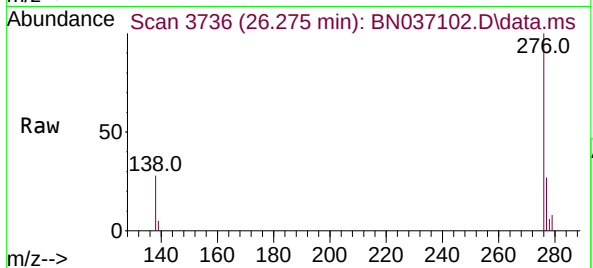
Acq: 28 May 2025 10:41

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4



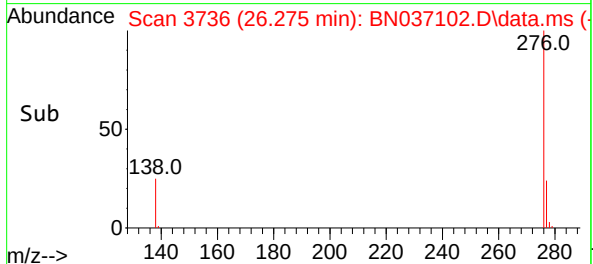
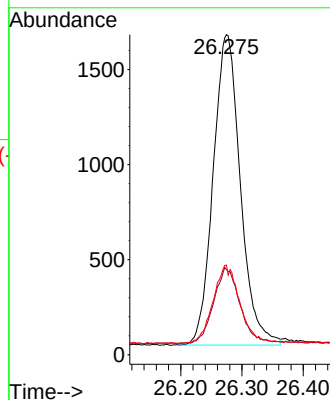
Tgt Ion:276 Resp: 5040

Ion Ratio Lower Upper

276 100

277 26.6 20.2 30.4

138 28.0 22.0 33.0



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN052825\  
 Data File : BN037102.D  
 Acq On : 28 May 2025 10:41  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 LabSampleId :  
 SSTDCCC0.4

Quant Time: May 28 15:33:07 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN051425.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 14 11:26:32 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   | 136   | 0.00     |
| 2       | 1,4-Dioxane                | 0.491 | 0.461 | 6.1   | 122   | 0.00     |
| 3       | n-Nitrosodimethylamine     | 1.054 | 0.990 | 6.1   | 138   | 0.00     |
| 4 S     | 2-Fluorophenol             | 1.048 | 0.917 | 12.5  | 110   | 0.00     |
| 5 S     | Phenol-d6                  | 1.311 | 1.136 | 13.3  | 112   | 0.00     |
| 6       | bis(2-Chloroethyl)ether    | 1.207 | 1.141 | 5.5   | 135   | 0.00     |
| 7 I     | Naphthalene-d8             | 1.000 | 1.000 | 0.0   | 139   | -0.02    |
| 8 S     | Nitrobenzene-d5            | 0.436 | 0.404 | 7.3   | 141   | -0.01    |
| 9       | Naphthalene                | 1.182 | 1.117 | 5.5   | 136   | -0.01    |
| 10      | Hexachlorobutadiene        | 0.248 | 0.245 | 1.2   | 140   | -0.02    |
| 11 SURR | 2-Methylnaphthalene-d10    | 0.563 | 0.578 | -2.7  | 145   | -0.01    |
| 12      | 2-Methylnaphthalene        | 0.760 | 0.716 | 5.8   | 135   | -0.01    |
| 13 I    | Acenaphthene-d10           | 1.000 | 1.000 | 0.0   | 139   | -0.01    |
| 14 S    | 2,4,6-Tribromophenol       | 0.176 | 0.150 | 14.8  | 117   | -0.01    |
| 15 S    | 2-Fluorobiphenyl           | 1.832 | 1.781 | 2.8   | 130   | -0.01    |
| 16      | Acenaphthylene             | 1.947 | 1.791 | 8.0   | 132   | -0.01    |
| 17      | Acenaphthene               | 1.272 | 1.189 | 6.5   | 133   | -0.01    |
| 18      | Fluorene                   | 1.669 | 1.525 | 8.6   | 130   | 0.00     |
| 19 I    | Phenanthrene-d10           | 1.000 | 1.000 | 0.0   | 132   | 0.00     |
| 20      | 4,6-Dinitro-2-methylphenol | 0.090 | 0.072 | 20.0  | 130   | -0.01    |
| 21      | 4-Bromophenyl-phenylether  | 0.253 | 0.249 | 1.6   | 131   | -0.01    |
| 22      | Hexachlorobenzene          | 0.270 | 0.280 | -3.7  | 131   | -0.01    |
| 23      | Atrazine                   | 0.220 | 0.193 | 12.3  | 120   | -0.01    |
| 24      | Pentachlorophenol          | 0.149 | 0.126 | 15.4  | 118   | -0.01    |
| 25      | Phenanthrene               | 1.307 | 1.209 | 7.5   | 123   | -0.01    |
| 26      | Anthracene                 | 1.190 | 1.059 | 11.0  | 120   | -0.01    |
| 27 SURR | Fluoranthene-d10           | 1.097 | 0.983 | 10.4  | 120   | 0.00     |
| 28      | Fluoranthene               | 1.562 | 1.285 | 17.7  | 113   | 0.00     |
| 29 I    | Chrysene-d12               | 1.000 | 1.000 | 0.0   | 97    | 0.00     |
| 30      | Pyrene                     | 1.711 | 1.944 | -13.6 | 109   | 0.00     |
| 31 S    | Terphenyl-d14              | 0.856 | 0.973 | -13.7 | 108   | 0.00     |
| 32      | Benzo(a)anthracene         | 1.506 | 1.355 | 10.0  | 88    | -0.02    |
| 33      | Chrysene                   | 1.593 | 1.552 | 2.6   | 93    | 0.00     |
| 34      | Bis(2-ethylhexyl)phthalate | 0.927 | 0.862 | 7.0   | 92    | 0.00     |
| 35 I    | Perylene-d12               | 1.000 | 1.000 | 0.0   | 82    | -0.02    |
| 36      | Indeno(1,2,3-cd)pyrene     | 1.634 | 1.539 | 5.8   | 77    | -0.03    |
| 37      | Benzo(b)fluoranthene       | 1.659 | 1.512 | 8.9   | 77    | -0.01    |
| 38      | Benzo(k)fluoranthene       | 1.639 | 1.615 | 1.5   | 80    | -0.01    |
| 39 C    | Benzo(a)pyrene             | 1.407 | 1.273 | 9.5   | 75    | -0.02    |
| 40      | Dibenzo(a,h)anthracene     | 1.272 | 1.176 | 7.5   | 76    | -0.03    |
| 41      | Benzo(g,h,i)perylene       | 1.383 | 1.362 | 1.5   | 78    | -0.03    |

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN052825\  
 Data File : BN037102.D  
 Acq On : 28 May 2025 10:41  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 LabSampleId :  
 SSTDCCC0.4

Quant Time: May 28 15:33:07 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN051425.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 14 11:26:32 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   | 136   | 0.00     |
| 2       | 1,4-Dioxane                | 0.400  | 0.375 | 6.3   | 122   | 0.00     |
| 3       | n-Nitrosodimethylamine     | 0.400  | 0.376 | 6.0   | 138   | 0.00     |
| 4 S     | 2-Fluorophenol             | 0.400  | 0.350 | 12.5  | 110   | 0.00     |
| 5 S     | Phenol-d6                  | 0.400  | 0.346 | 13.5  | 112   | 0.00     |
| 6       | bis(2-Chloroethyl)ether    | 0.400  | 0.378 | 5.5   | 135   | 0.00     |
| 7 I     | Naphthalene-d8             | 0.400  | 0.400 | 0.0   | 139   | -0.02    |
| 8 S     | Nitrobenzene-d5            | 0.400  | 0.371 | 7.3   | 141   | -0.01    |
| 9       | Naphthalene                | 0.400  | 0.378 | 5.5   | 136   | -0.01    |
| 10      | Hexachlorobutadiene        | 0.400  | 0.395 | 1.3   | 140   | -0.02    |
| 11 SURR | 2-Methylnaphthalene-d10    | 0.400  | 0.411 | -2.7  | 145   | -0.01    |
| 12      | 2-Methylnaphthalene        | 0.400  | 0.377 | 5.8   | 135   | -0.01    |
| 13 I    | Acenaphthene-d10           | 0.400  | 0.400 | 0.0   | 139   | -0.01    |
| 14 S    | 2,4,6-Tribromophenol       | 0.400  | 0.341 | 14.8  | 117   | -0.01    |
| 15 S    | 2-Fluorobiphenyl           | 0.400  | 0.389 | 2.8   | 130   | -0.01    |
| 16      | Acenaphthylene             | 0.400  | 0.368 | 8.0   | 132   | -0.01    |
| 17      | Acenaphthene               | 0.400  | 0.374 | 6.5   | 133   | -0.01    |
| 18      | Fluorene                   | 0.400  | 0.366 | 8.5   | 130   | 0.00     |
| 19 I    | Phenanthrene-d10           | 0.400  | 0.400 | 0.0   | 132   | 0.00     |
| 20      | 4,6-Dinitro-2-methylphenol | 0.400  | 0.376 | 6.0   | 130   | -0.01    |
| 21      | 4-Bromophenyl-phenylether  | 0.400  | 0.394 | 1.5   | 131   | -0.01    |
| 22      | Hexachlorobenzene          | 0.400  | 0.414 | -3.5  | 131   | -0.01    |
| 23      | Atrazine                   | 0.400  | 0.349 | 12.8  | 120   | -0.01    |
| 24      | Pentachlorophenol          | 0.400  | 0.339 | 15.3  | 118   | -0.01    |
| 25      | Phenanthrene               | 0.400  | 0.370 | 7.5   | 123   | -0.01    |
| 26      | Anthracene                 | 0.400  | 0.356 | 11.0  | 120   | -0.01    |
| 27 SURR | Fluoranthene-d10           | 0.400  | 0.359 | 10.3  | 120   | 0.00     |
| 28      | Fluoranthene               | 0.400  | 0.329 | 17.8  | 113   | 0.00     |
| 29 I    | Chrysene-d12               | 0.400  | 0.400 | 0.0   | 97    | 0.00     |
| 30      | Pyrene                     | 0.400  | 0.454 | -13.5 | 109   | 0.00     |
| 31 S    | Terphenyl-d14              | 0.400  | 0.455 | -13.7 | 108   | 0.00     |
| 32      | Benzo(a)anthracene         | 0.400  | 0.360 | 10.0  | 88    | -0.02    |
| 33      | Chrysene                   | 0.400  | 0.390 | 2.5   | 93    | 0.00     |
| 34      | Bis(2-ethylhexyl)phthalate | 0.400  | 0.372 | 7.0   | 92    | 0.00     |
| 35 I    | Perylene-d12               | 0.400  | 0.400 | 0.0   | 82    | -0.02    |
| 36      | Indeno(1,2,3-cd)pyrene     | 0.400  | 0.377 | 5.8   | 77    | -0.03    |
| 37      | Benzo(b)fluoranthene       | 0.400  | 0.365 | 8.8   | 77    | -0.01    |
| 38      | Benzo(k)fluoranthene       | 0.400  | 0.394 | 1.5   | 80    | -0.01    |
| 39 C    | Benzo(a)pyrene             | 0.400  | 0.362 | 9.5   | 75    | -0.02    |
| 40      | Dibenzo(a,h)anthracene     | 0.400  | 0.370 | 7.5   | 76    | -0.03    |
| 41      | Benzo(g,h,i)perylene       | 0.400  | 0.394 | 1.5   | 78    | -0.03    |

(#) = 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.: Q2118 SAS No.: Q2118 SDG No.: Q2118

Instrument ID: BNA\_N Calibration Date/Time: 05/28/2025 15:54

Lab File ID: BN037110.D Init. Calib. Date(s): 05/13/2025 05/13/2025

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 17:41 21:17

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

| COMPOUND                | RRF   | RRF0.4 | MIN<br>RRF | %D    | MAX%D |
|-------------------------|-------|--------|------------|-------|-------|
| 2-Methylnaphthalene-d10 | 0.563 | 0.578  |            | 2.7   | 50.0  |
| Fluoranthene-d10        | 1.097 | 1.001  |            | -8.8  | 50.0  |
| 2-Fluorophenol          | 1.048 | 0.942  |            | -10.1 | 50.0  |
| Phenol-d6               | 1.311 | 1.119  |            | -14.6 | 50.0  |
| Nitrobenzene-d5         | 0.436 | 0.411  |            | -5.7  | 50.0  |
| 2-Fluorobiphenyl        | 1.832 | 1.776  |            | -3.1  | 50.0  |
| 2,4,6-Tribromophenol    | 0.176 | 0.163  |            | -7.4  | 50.0  |
| Terphenyl-d14           | 0.856 | 0.988  |            | 15.4  | 50.0  |
| 1,4-Dioxane             | 0.491 | 0.478  |            | -2.6  | 50.0  |

All other compounds must meet a minimum RRF of 0.010.



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN052825\  
 Data File : BN037110.D  
 Acq On : 28 May 2025 15:54  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4EC

Quant Time: May 28 17:04:58 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN051425.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 14 11:26:32 2025  
 Response via : Initial Calibration

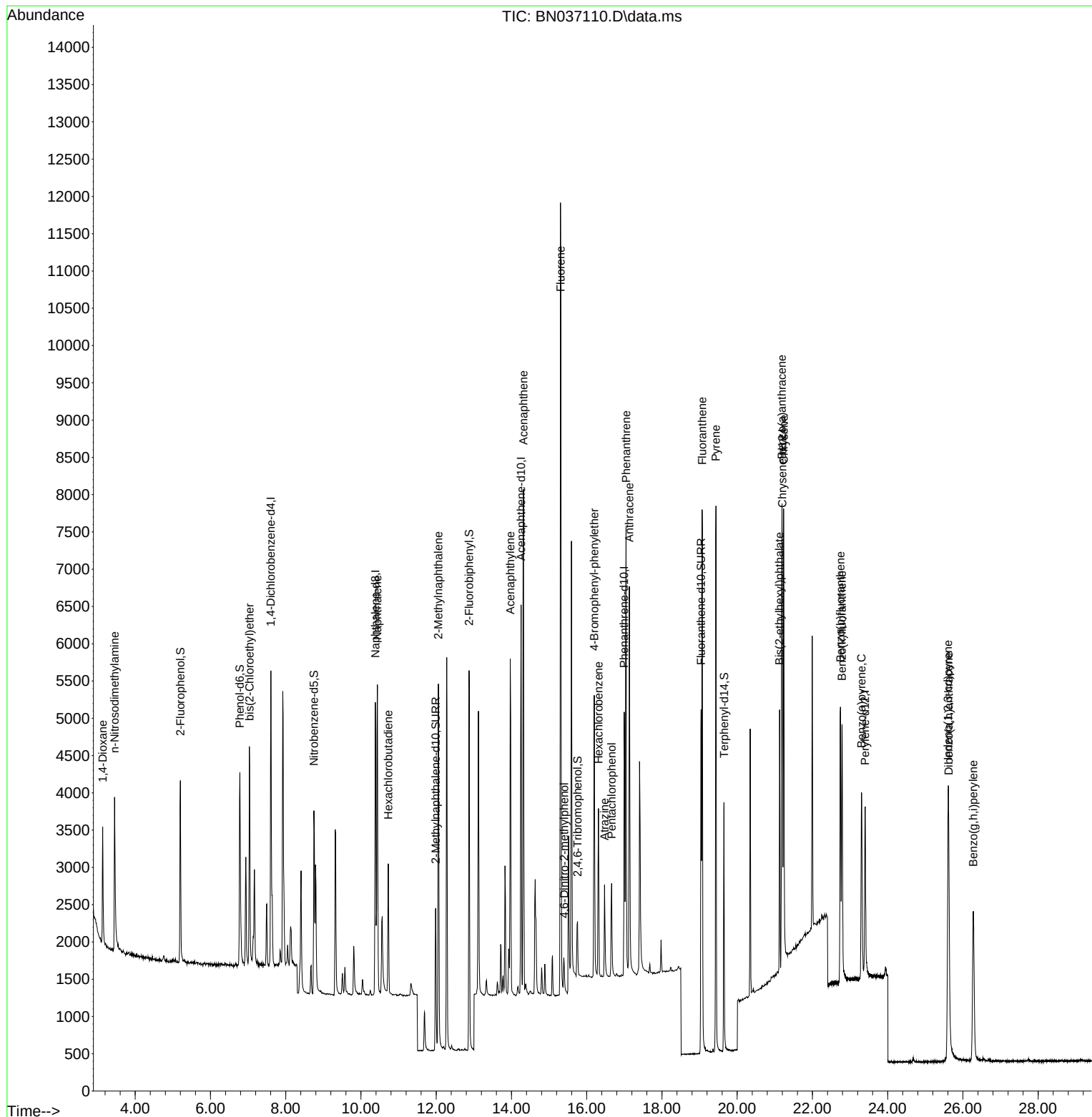
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.604  | 152  | 1840     | 0.400 | ng    | -0.01    |
| 7) Naphthalene-d8             | 10.383 | 136  | 4915     | 0.400 | ng    | #-0.02   |
| 13) Acenaphthene-d10          | 14.256 | 164  | 2757     | 0.400 | ng    | -0.01    |
| 19) Phenanthrene-d10          | 16.996 | 188  | 5123     | 0.400 | ng    | -0.01    |
| 29) Chrysene-d12              | 21.197 | 240  | 3408     | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.398 | 264  | 2953     | 0.400 | ng    | -0.02    |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.199  | 112  | 1734     | 0.360 | ng    | -0.01    |
| 5) Phenol-d6                  | 6.780  | 99   | 2059     | 0.341 | ng    | -0.01    |
| 8) Nitrobenzene-d5            | 8.749  | 82   | 2019     | 0.377 | ng    | -0.02    |
| 11) 2-Methylnaphthalene-d10   | 11.986 | 152  | 2841     | 0.411 | ng    | -0.01    |
| 14) 2,4,6-Tribromophenol      | 15.755 | 330  | 450      | 0.372 | ng    | -0.01    |
| 15) 2-Fluorobiphenyl          | 12.873 | 172  | 4896     | 0.388 | ng    | -0.02    |
| 27) Fluoranthene-d10          | 19.040 | 212  | 5130     | 0.365 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.649 | 244  | 3366     | 0.462 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
|                               |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.133  | 88   | 880      | 0.390 | ng    | 95       |
| 3) n-Nitrosodimethylamine     | 3.451  | 42   | 1978     | 0.408 | ng    | # 87     |
| 6) bis(2-Chloroethyl)ether    | 7.040  | 93   | 2027     | 0.365 | ng    | 99       |
| 9) Naphthalene                | 10.436 | 128  | 5450     | 0.375 | ng    | 99       |
| 10) Hexachlorobutadiene       | 10.724 | 225  | 1254     | 0.411 | ng    | # 100    |
| 12) 2-Methylnaphthalene       | 12.057 | 142  | 3561     | 0.381 | ng    | 99       |
| 16) Acenaphthylene            | 13.967 | 152  | 5016     | 0.374 | ng    | 100      |
| 17) Acenaphthene              | 14.320 | 154  | 3315     | 0.378 | ng    | 99       |
| 18) Fluorene                  | 15.304 | 166  | 4318     | 0.375 | ng    | 100      |
| 20) 4,6-Dinitro-2-methylph... | 15.400 | 198  | 390      | 0.395 | ng    | 90       |
| 21) 4-Bromophenyl-phenylether | 16.202 | 248  | 1297     | 0.401 | ng    | 99       |
| 22) Hexachlorobenzene         | 16.313 | 284  | 1450     | 0.419 | ng    | 97       |
| 23) Atrazine                  | 16.475 | 200  | 1071     | 0.380 | ng    | 96       |
| 24) Pentachlorophenol         | 16.661 | 266  | 635      | 0.333 | ng    | 96       |
| 25) Phenanthrene              | 17.046 | 178  | 6328     | 0.378 | ng    | 99       |
| 26) Anthracene                | 17.133 | 178  | 5559     | 0.365 | ng    | 99       |
| 28) Fluoranthene              | 19.068 | 202  | 6735     | 0.337 | ng    | 99       |
| 30) Pyrene                    | 19.435 | 202  | 6623     | 0.454 | ng    | 100      |
| 32) Benzo(a)anthracene        | 21.188 | 228  | 4757     | 0.371 | ng    | 99       |
| 33) Chrysene                  | 21.233 | 228  | 5169     | 0.381 | ng    | 100      |
| 34) Bis(2-ethylhexyl)phtha... | 21.126 | 149  | 2999     | 0.380 | ng    | 100      |
| 36) Indeno(1,2,3-cd)pyrene    | 25.605 | 276  | 4735     | 0.393 | ng    | 97       |
| 37) Benzo(b)fluoranthene      | 22.743 | 252  | 4529     | 0.370 | ng    | 97       |
| 38) Benzo(k)fluoranthene      | 22.784 | 252  | 4726     | 0.391 | ng    | 97       |
| 39) Benzo(a)pyrene            | 23.304 | 252  | 3803     | 0.366 | ng    | 95       |
| 40) Dibenzo(a,h)anthracene    | 25.623 | 278  | 3725     | 0.397 | ng    | 97       |
| 41) Benzo(g,h,i)perylene      | 26.275 | 276  | 4250     | 0.416 | ng    | 98       |
| -----                         |        |      |          |       |       |          |

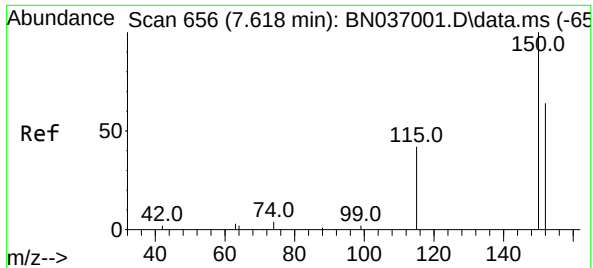
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN052825\  
Data File : BN037110.D  
Acq On : 28 May 2025 15:54  
Operator : RC/JU  
Sample : SSTDCCC0.4  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

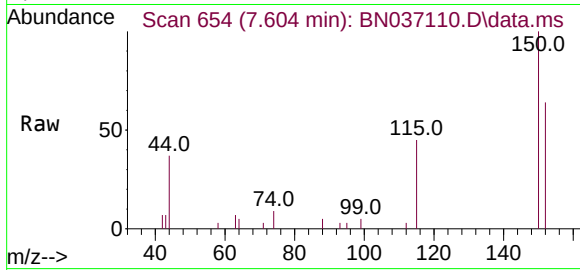
Quant Time: May 28 17:04:58 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN051425.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed May 14 11:26:32 2025  
Response via : Initial Calibration



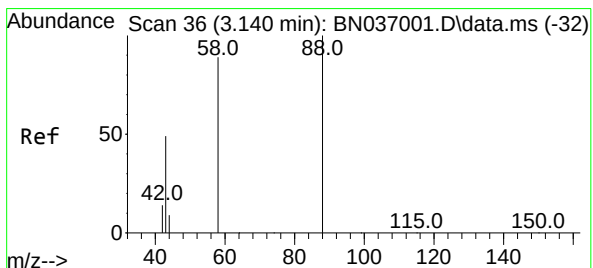
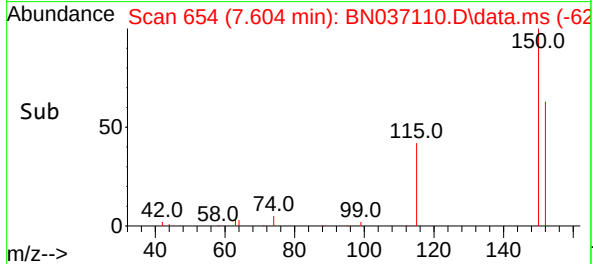
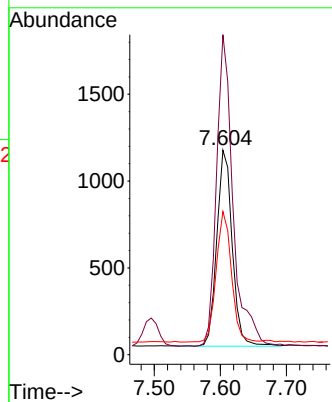


#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.604 min Scan# 61  
Delta R.T. -0.014 min  
Lab File: BN037110.D  
Acq: 28 May 2025 15:54

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

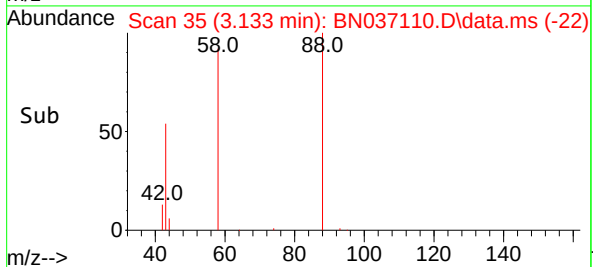
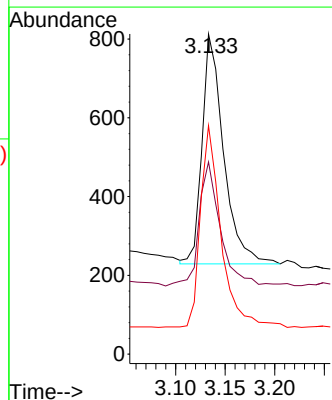
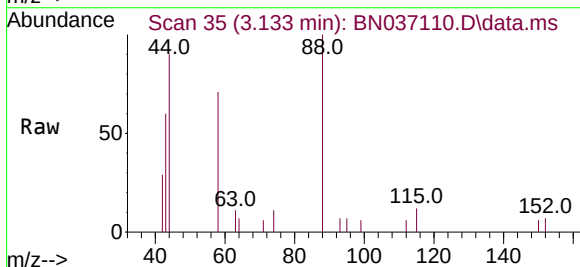


Tgt Ion:152 Resp: 1840  
Ion Ratio Lower Upper  
152 100  
150 156.5 123.9 185.9  
115 70.0 55.8 83.8

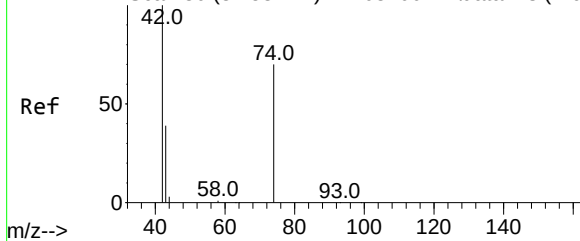


#2  
1,4-Dioxane  
Concen: 0.390 ng  
RT: 3.133 min Scan# 35  
Delta R.T. -0.007 min  
Lab File: BN037110.D  
Acq: 28 May 2025 15:54

Tgt Ion: 88 Resp: 880  
Ion Ratio Lower Upper  
88 100  
43 53.5 37.4 56.0  
58 84.3 68.8 103.2



Abundance Scan 80 (3.458 min): BN037001.D\data.ms (-76)



#3

n-Nitrosodimethylamine

Concen: 0.408 ng

RT: 3.451 min Scan# 79

Delta R.T. -0.007 min

Lab File: BN037110.D

Acq: 28 May 2025 15:54

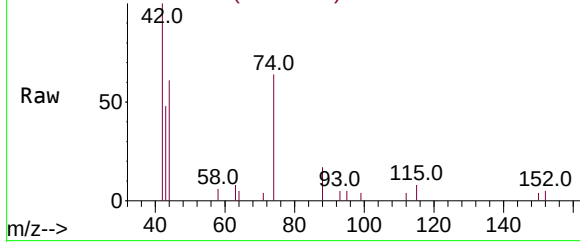
Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC

Abundance Scan 79 (3.451 min): BN037110.D\data.ms



Tgt Ion: 42 Resp: 1978

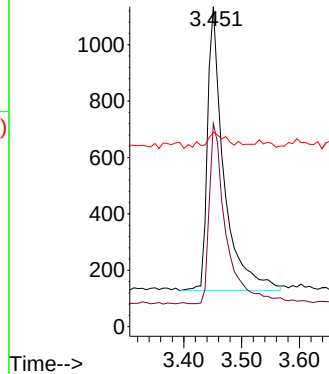
Ion Ratio Lower Upper

42 100

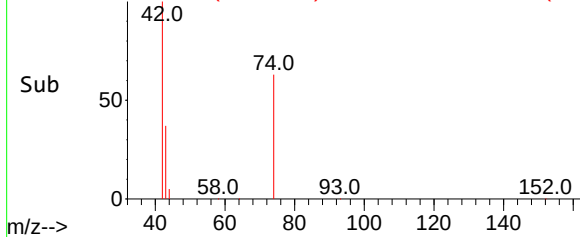
74 64.8 59.8 89.6

44 7.0 11.9 17.9#

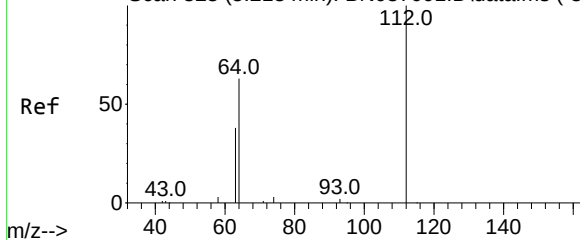
Abundance



Abundance Scan 79 (3.451 min): BN037110.D\data.ms (-59)



Abundance Scan 323 (5.213 min): BN037001.D\data.ms (-31)



#4

2-Fluorophenol

Concen: 0.360 ng

RT: 5.199 min Scan# 321

Delta R.T. -0.014 min

Lab File: BN037110.D

Acq: 28 May 2025 15:54

Tgt Ion: 112 Resp: 1734

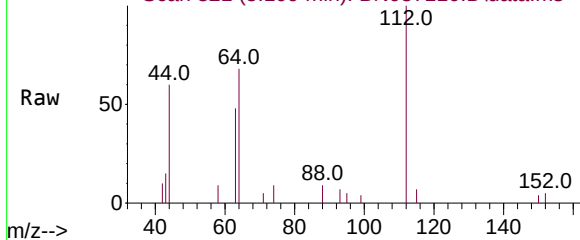
Ion Ratio Lower Upper

112 100

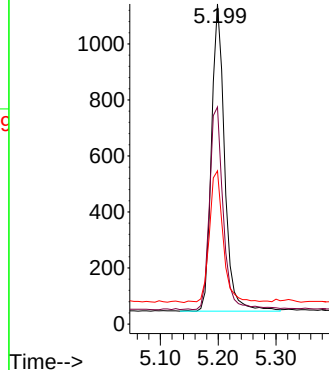
64 69.4 55.7 83.5

63 45.2 34.6 51.8

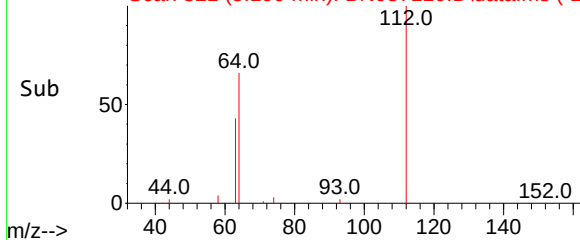
Abundance Scan 321 (5.199 min): BN037110.D\data.ms

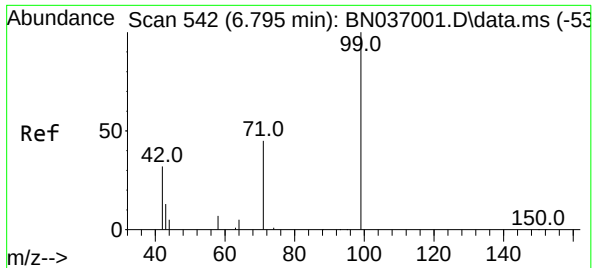


Abundance



Abundance Scan 321 (5.199 min): BN037110.D\data.ms (-29)

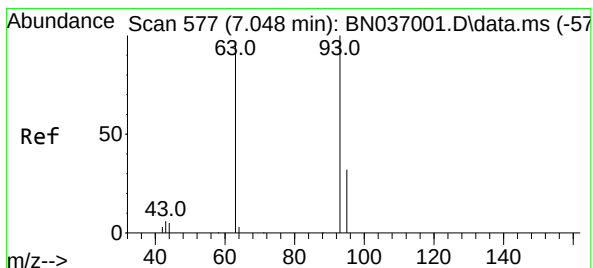
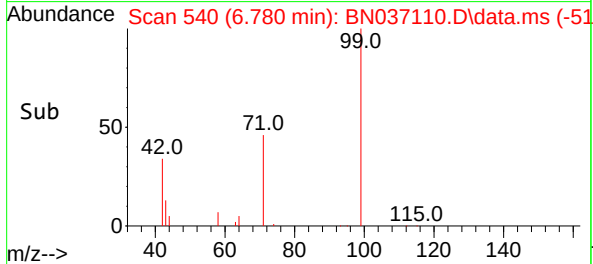
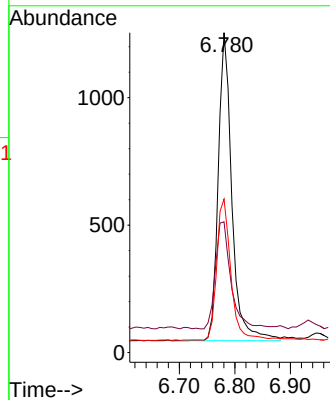
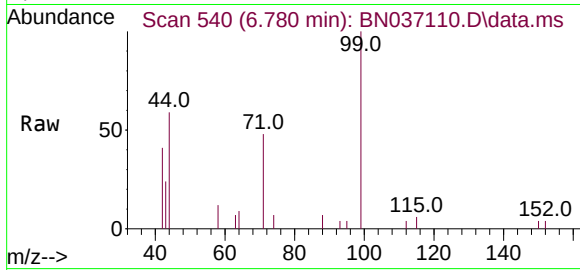




#5  
Phenol-d6  
Concen: 0.341 ng  
RT: 6.780 min Scan# 541  
Delta R.T. -0.015 min  
Lab File: BN037110.D  
Acq: 28 May 2025 15:54

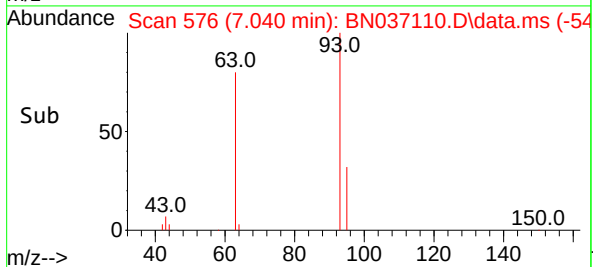
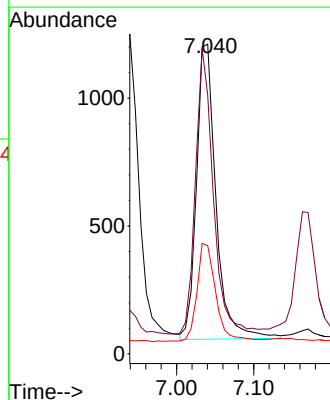
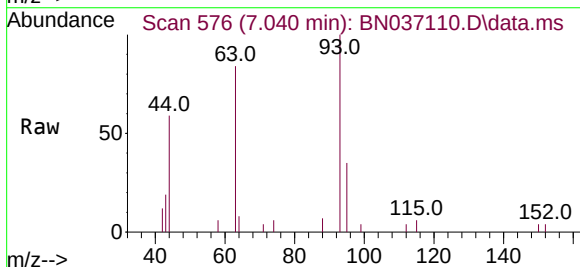
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

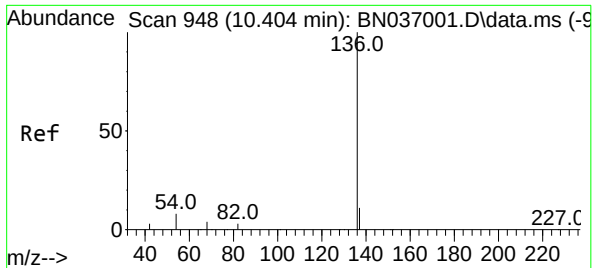
Tgt Ion: 99 Resp: 2059  
Ion Ratio Lower Upper  
99 100  
42 40.0 29.3 43.9  
71 47.1 35.7 53.5



#6  
bis(2-Chloroethyl)ether  
Concen: 0.365 ng  
RT: 7.040 min Scan# 576  
Delta R.T. -0.007 min  
Lab File: BN037110.D  
Acq: 28 May 2025 15:54

Tgt Ion: 93 Resp: 2027  
Ion Ratio Lower Upper  
93 100  
63 88.4 70.1 105.1  
95 31.9 26.2 39.2

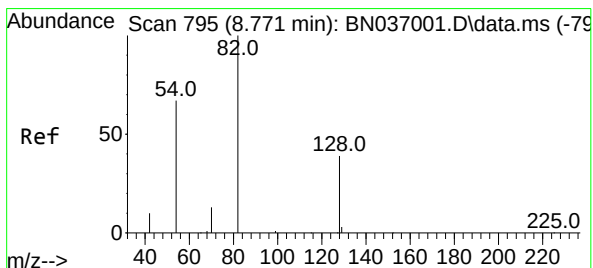
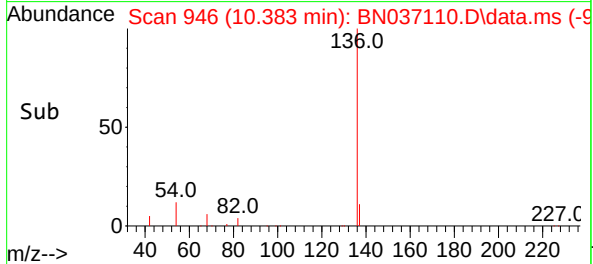
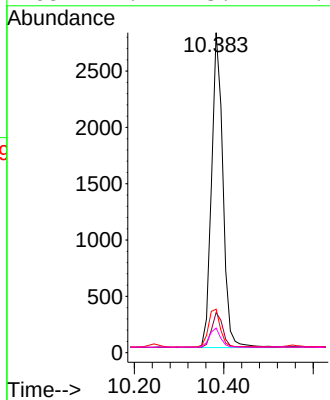
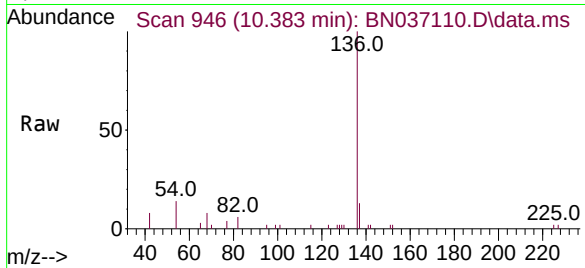




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.383 min Scan# 948  
Delta R.T. -0.021 min  
Lab File: BN037110.D  
Acq: 28 May 2025 15:54

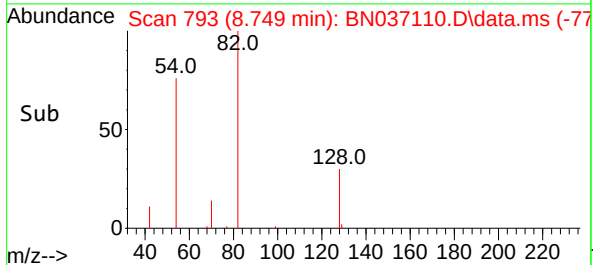
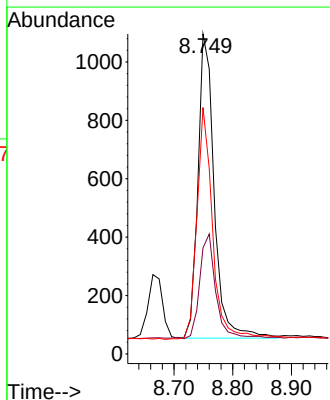
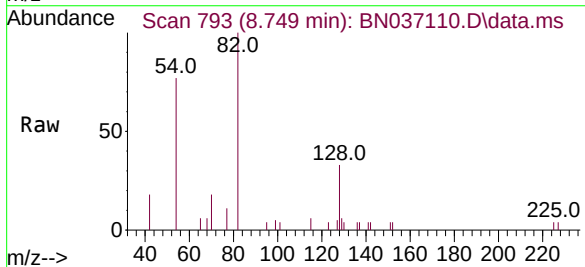
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

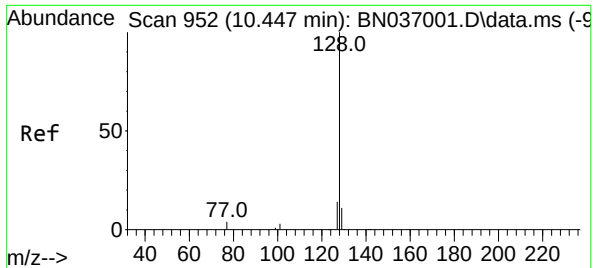
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 4915  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 12.6  | 10.4  | 15.6  |
| 54       | 13.6  | 8.5   | 12.7# |
| 68       | 7.7   | 5.1   | 7.7#  |



#8  
Nitrobenzene-d5  
Concen: 0.377 ng  
RT: 8.749 min Scan# 793  
Delta R.T. -0.021 min  
Lab File: BN037110.D  
Acq: 28 May 2025 15:54

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 2019  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 33.1  | 34.0  | 51.0# |
| 54       | 77.0  | 55.0  | 82.4  |

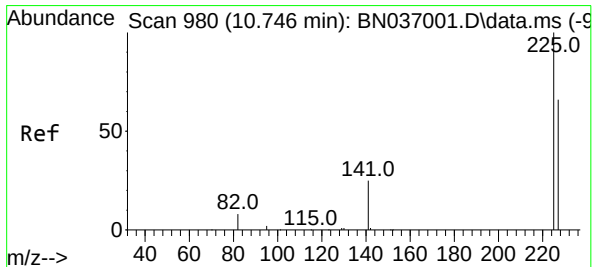
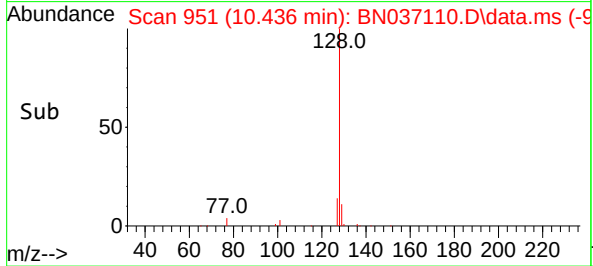
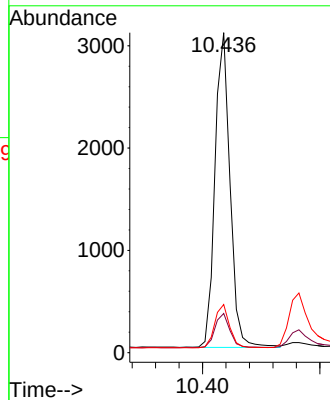
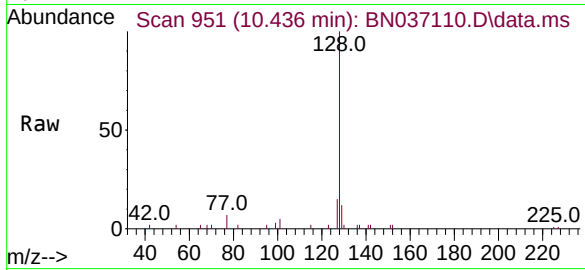




#9  
Naphthalene  
Concen: 0.375 ng  
RT: 10.436 min Scan# 91  
Delta R.T. -0.011 min  
Lab File: BN037110.D  
Acq: 28 May 2025 15:54

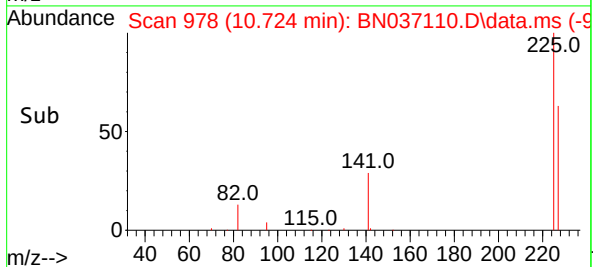
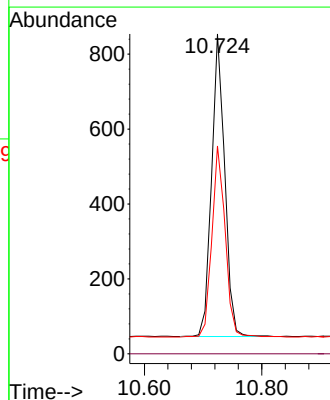
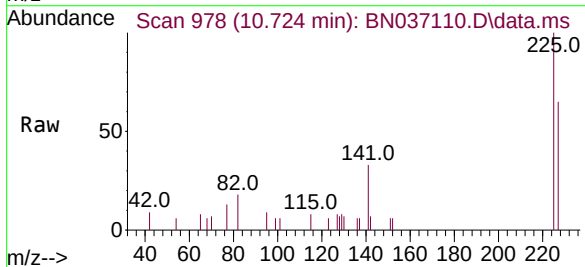
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

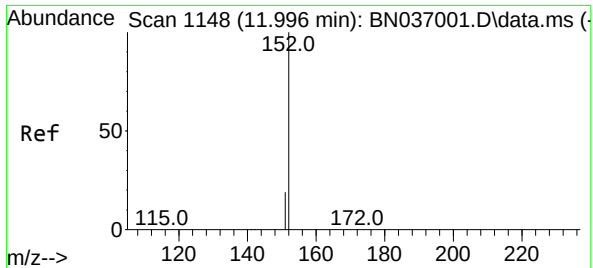
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 5450  |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 129      | 12.2  | 9.7   | 14.5  |
| 127      | 15.0  | 12.4  | 18.6  |



#10  
Hexachlorobutadiene  
Concen: 0.411 ng  
RT: 10.724 min Scan# 978  
Delta R.T. -0.021 min  
Lab File: BN037110.D  
Acq: 28 May 2025 15:54

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 225   | Resp: | 1254  |
| Ion      | Ratio | Lower | Upper |
| 225      | 100   |       |       |
| 223      | 0.0   | 0.0   | 0.0   |
| 227      | 63.9  | 50.9  | 76.3  |

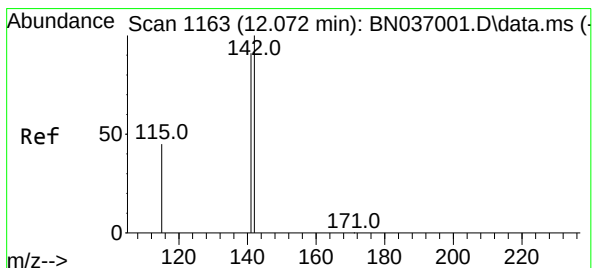
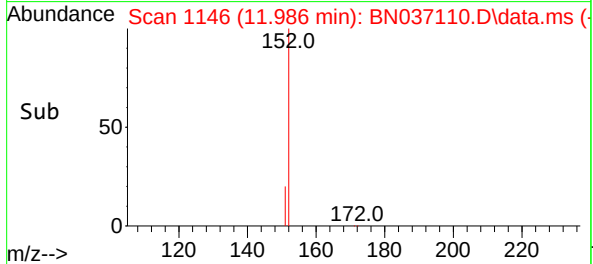
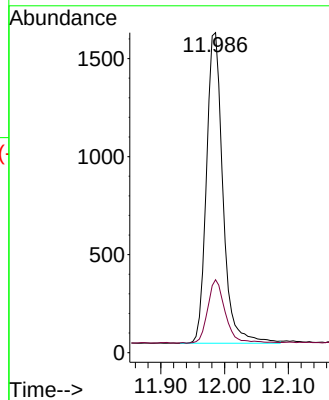
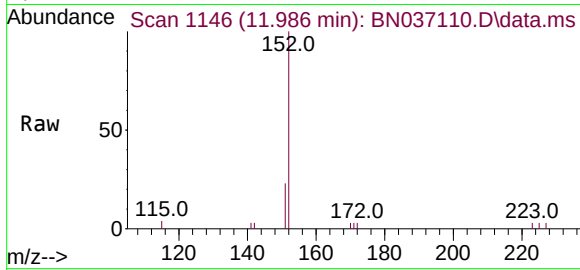




#11  
2-Methylnaphthalene-d10  
Concen: 0.411 ng  
RT: 11.986 min Scan# 1146  
Delta R.T. -0.010 min  
Lab File: BN037110.D  
Acq: 28 May 2025 15:54

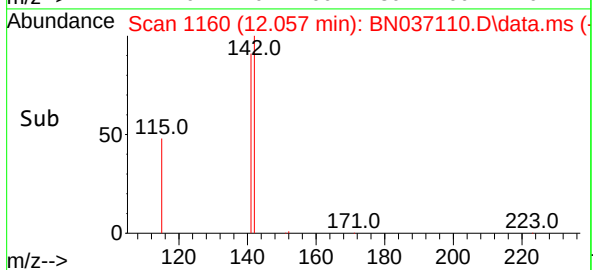
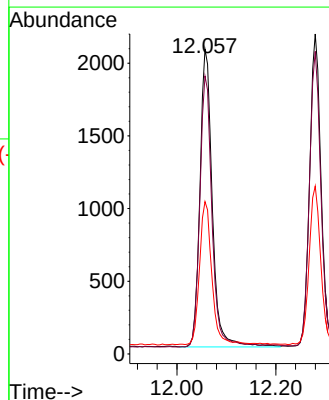
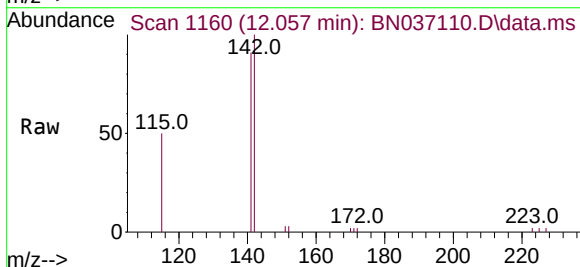
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

Tgt Ion:152 Resp: 2841  
Ion Ratio Lower Upper  
152 100  
151 22.0 17.5 26.3

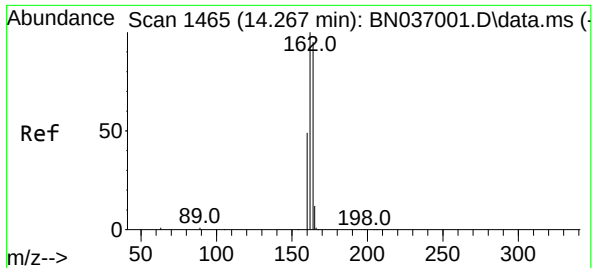


#12  
2-Methylnaphthalene  
Concen: 0.381 ng  
RT: 12.057 min Scan# 1160  
Delta R.T. -0.015 min  
Lab File: BN037110.D  
Acq: 28 May 2025 15:54

Tgt Ion:142 Resp: 3561  
Ion Ratio Lower Upper  
142 100  
141 91.2 73.3 109.9  
115 50.0 38.4 57.6



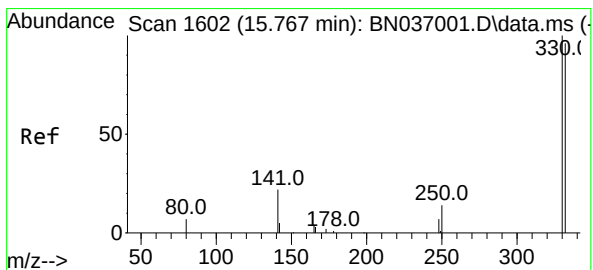
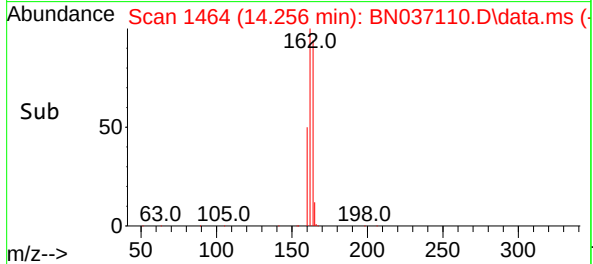
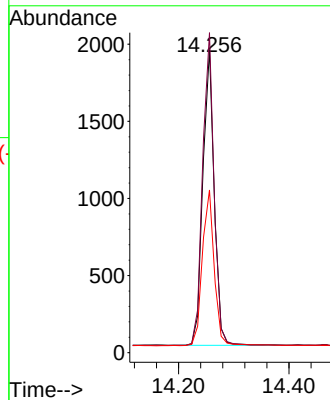
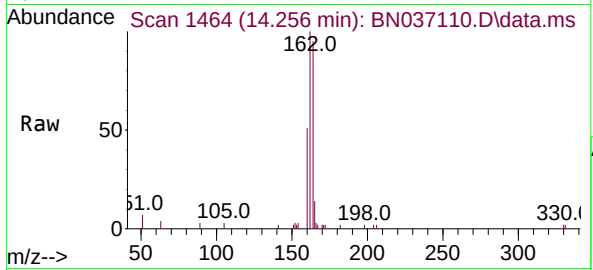




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.256 min Scan# 1464  
Delta R.T. -0.011 min  
Lab File: BN037110.D  
Acq: 28 May 2025 15:54

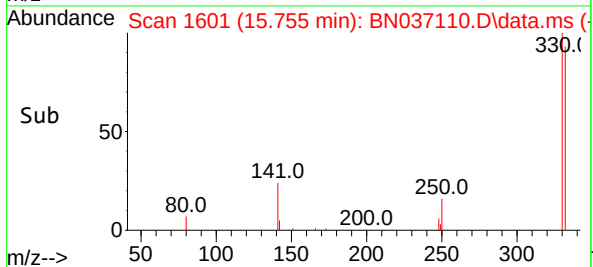
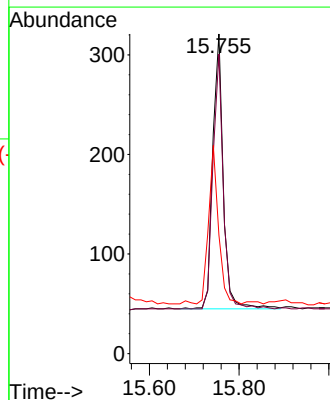
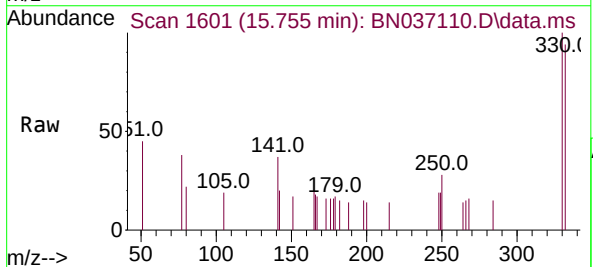
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

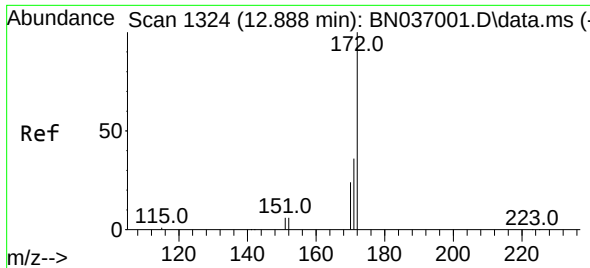
Tgt Ion:164 Resp: 2757  
Ion Ratio Lower Upper  
164 100  
162 105.7 84.2 126.4  
160 53.7 42.6 63.8



#14  
2,4,6-Tribromophenol  
Concen: 0.372 ng  
RT: 15.755 min Scan# 1601  
Delta R.T. -0.012 min  
Lab File: BN037110.D  
Acq: 28 May 2025 15:54

Tgt Ion:330 Resp: 450  
Ion Ratio Lower Upper  
330 100  
332 90.9 73.8 110.8  
141 53.8 43.9 65.9

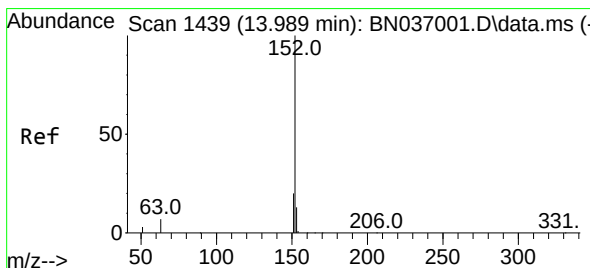
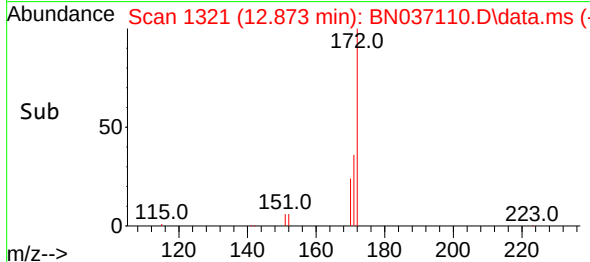
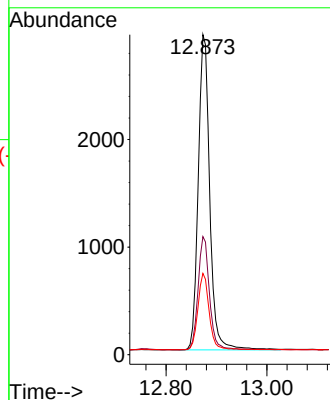
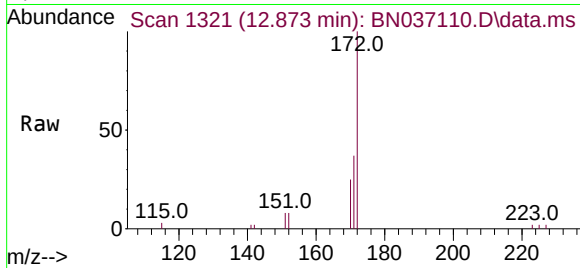




#15  
2-Fluorobiphenyl  
Concen: 0.388 ng  
RT: 12.873 min Scan# 11  
Delta R.T. -0.015 min  
Lab File: BN037110.D  
Acq: 28 May 2025 15:54

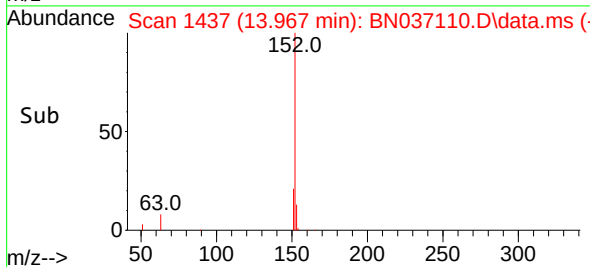
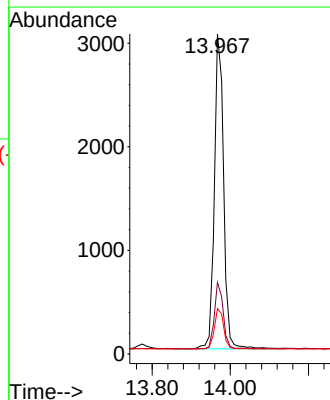
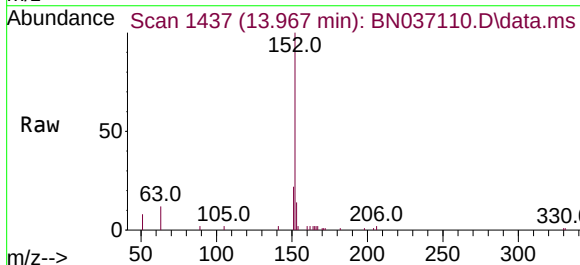
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

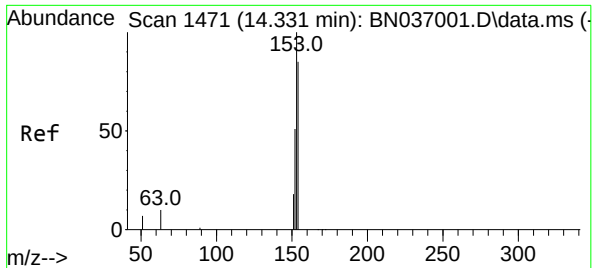
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.9  | 29.2  | 43.8  |
| 170     | 25.4  | 20.5  | 30.7  |



#16  
Acenaphthylene  
Concen: 0.374 ng  
RT: 13.967 min Scan# 1437  
Delta R.T. -0.021 min  
Lab File: BN037110.D  
Acq: 28 May 2025 15:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 20.4  | 16.1  | 24.1  |
| 153     | 13.0  | 10.5  | 15.7  |

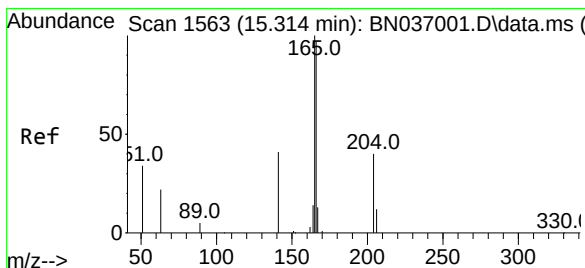
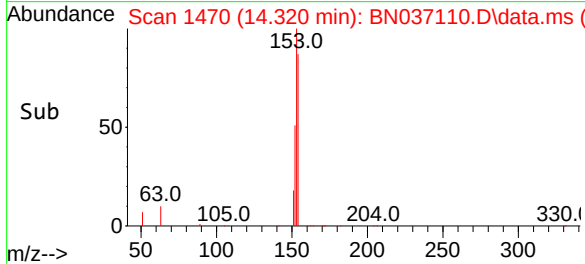
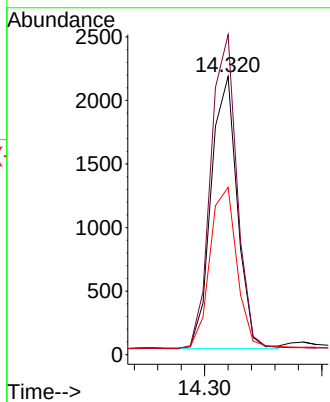
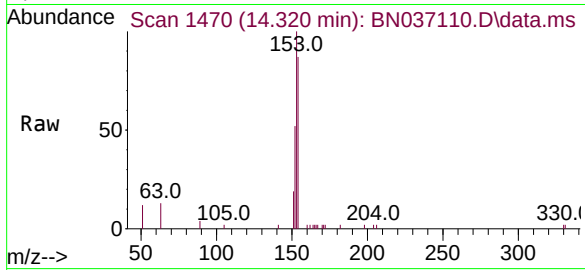




#17  
Acenaphthene  
Concen: 0.378 ng  
RT: 14.320 min Scan# 1471  
Delta R.T. -0.011 min  
Lab File: BN037110.D  
Acq: 28 May 2025 15:54

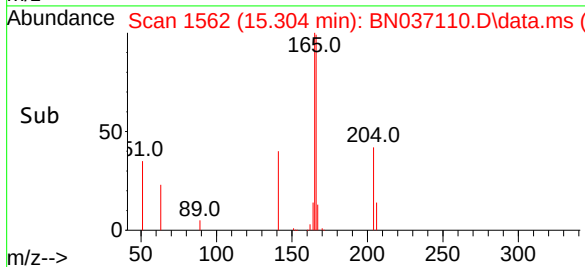
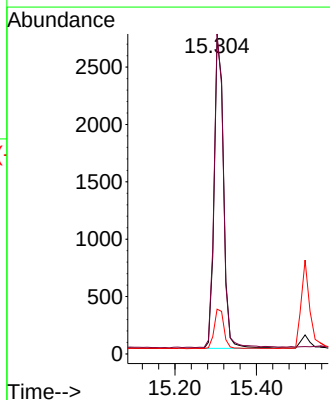
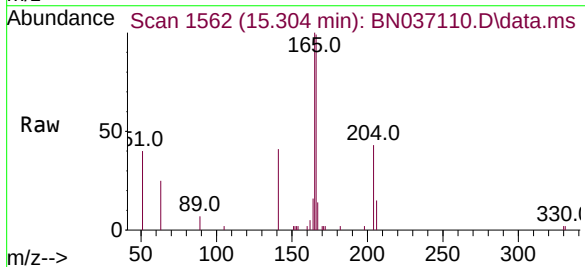
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

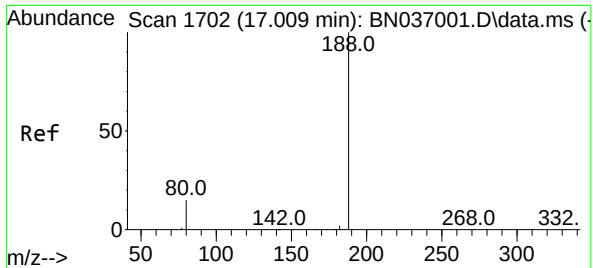
| Tgt Ion   | 154  | 153   | 152  |
|-----------|------|-------|------|
| Resp:     | 3315 |       |      |
| Ion Ratio | 100  | 116.0 | 61.7 |
| Lower     |      | 94.2  | 49.4 |
| Upper     |      | 141.4 | 74.0 |



#18  
Fluorene  
Concen: 0.375 ng  
RT: 15.304 min Scan# 1562  
Delta R.T. -0.011 min  
Lab File: BN037110.D  
Acq: 28 May 2025 15:54

| Tgt Ion   | 166  | 165   | 167  |
|-----------|------|-------|------|
| Resp:     | 4318 |       |      |
| Ion Ratio | 100  | 100.4 | 13.3 |
| Lower     |      | 80.6  | 10.6 |
| Upper     |      | 120.8 | 16.0 |

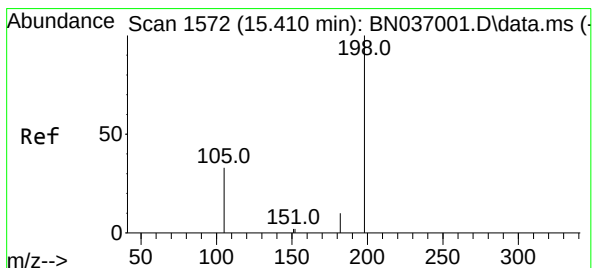
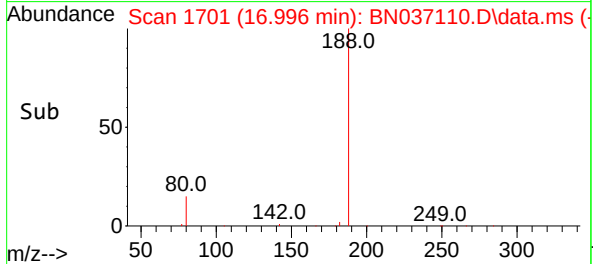
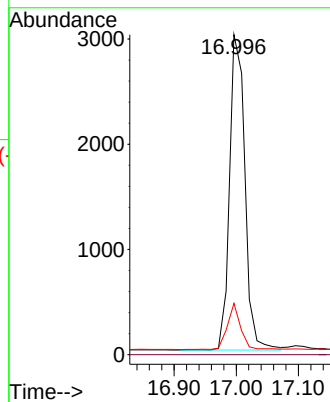
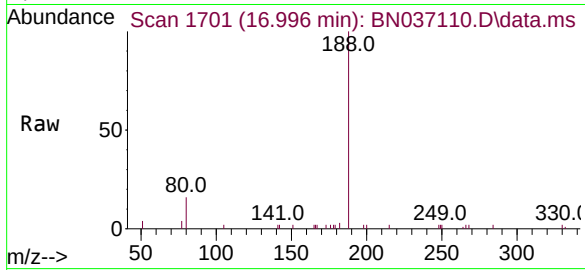




#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 16.996 min Scan# 11  
Delta R.T. -0.012 min  
Lab File: BN037110.D  
Acq: 28 May 2025 15:54

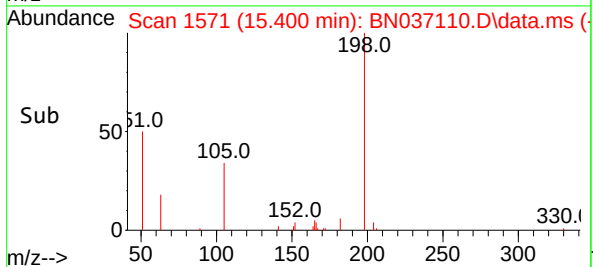
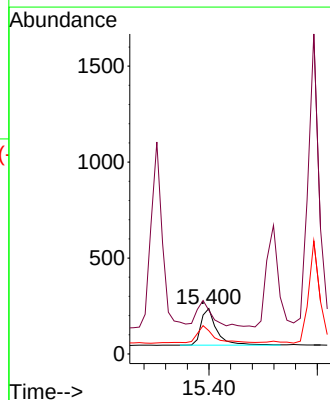
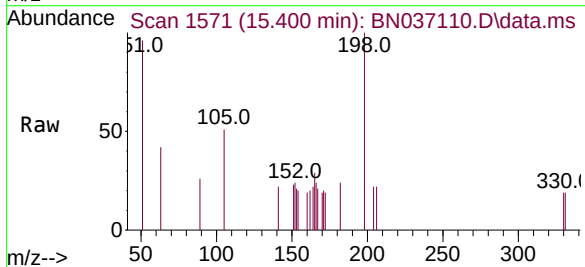
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

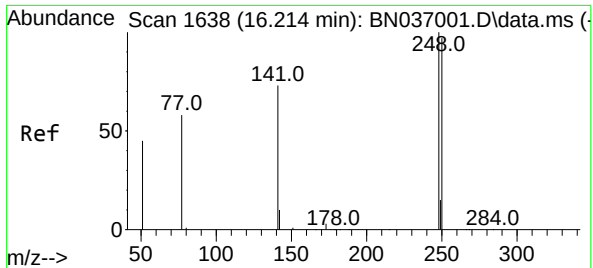
Tgt Ion:188 Resp: 5123  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 16.1 13.4 20.0



#20  
4,6-Dinitro-2-methylphenol  
Concen: 0.395 ng  
RT: 15.400 min Scan# 1571  
Delta R.T. -0.010 min  
Lab File: BN037110.D  
Acq: 28 May 2025 15:54

Tgt Ion:198 Resp: 390  
Ion Ratio Lower Upper  
198 100  
51 96.2 87.8 131.6  
105 51.1 44.2 66.4

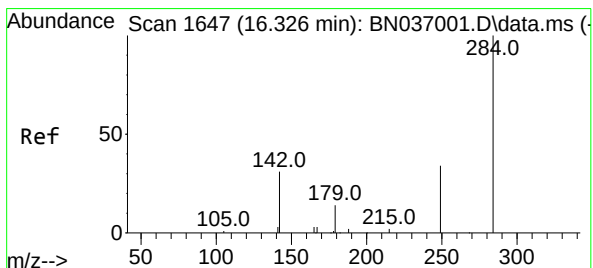
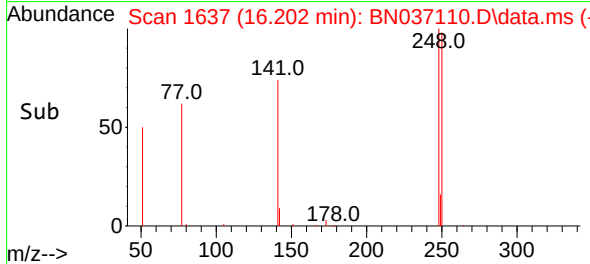
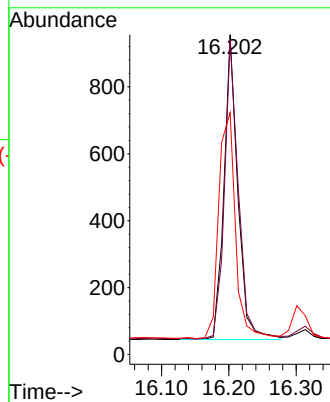
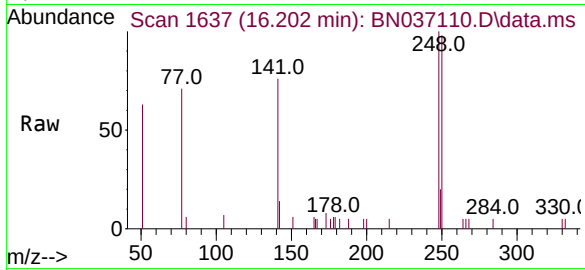




#21  
4-Bromophenyl-phenylether  
Concen: 0.401 ng  
RT: 16.202 min Scan# 1637  
Delta R.T. -0.012 min  
Lab File: BN037110.D  
Acq: 28 May 2025 15:54

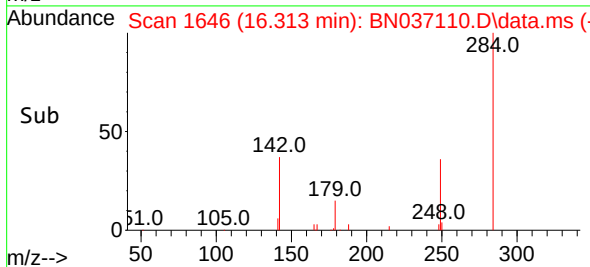
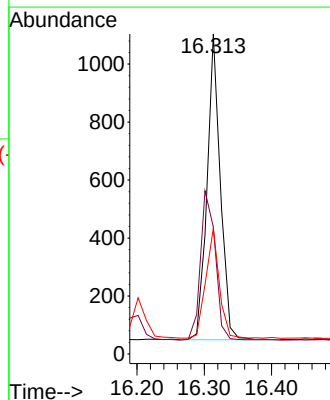
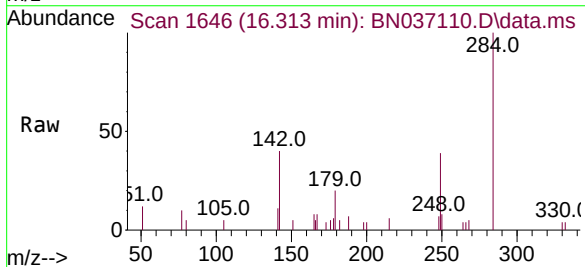
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

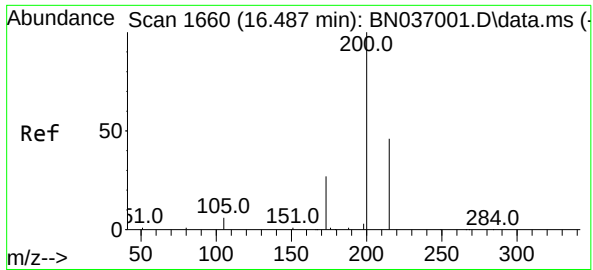
Tgt Ion:248 Resp: 1297  
Ion Ratio Lower Upper  
248 100  
250 98.3 78.1 117.1  
141 75.6 59.7 89.5



#22  
Hexachlorobenzene  
Concen: 0.419 ng  
RT: 16.313 min Scan# 1646  
Delta R.T. -0.012 min  
Lab File: BN037110.D  
Acq: 28 May 2025 15:54

Tgt Ion:284 Resp: 1450  
Ion Ratio Lower Upper  
284 100  
142 54.6 41.2 61.8  
249 36.6 28.7 43.1

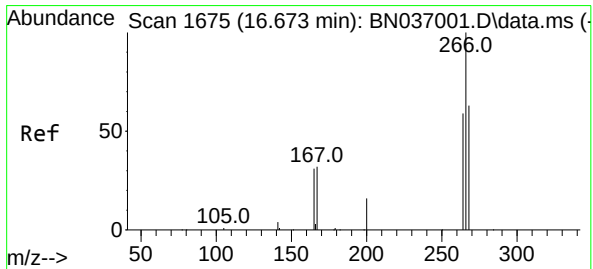
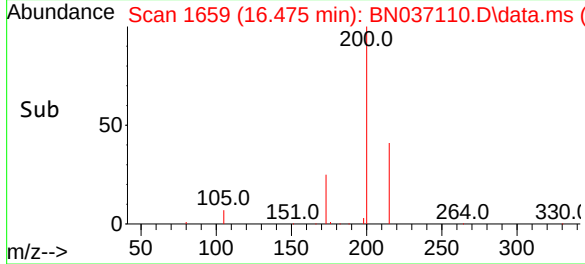
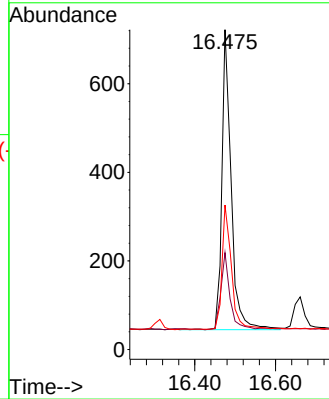
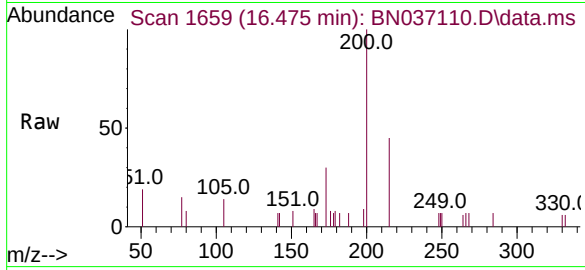




#23  
Atrazine  
Concen: 0.380 ng  
RT: 16.475 min Scan# 1659  
Delta R.T. -0.012 min  
Lab File: BN037110.D  
Acq: 28 May 2025 15:54

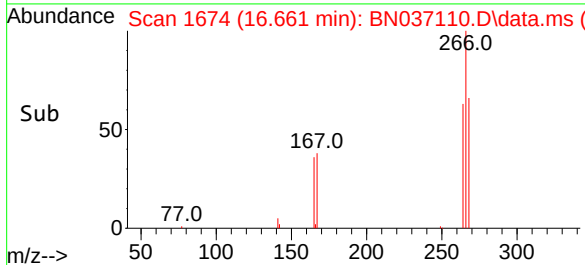
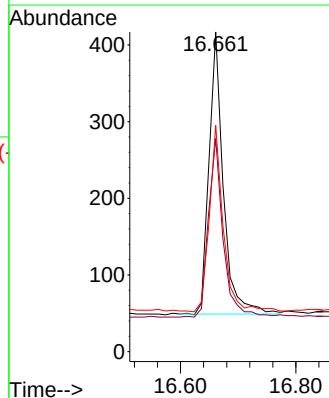
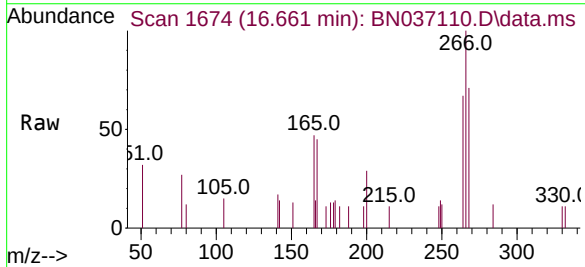
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

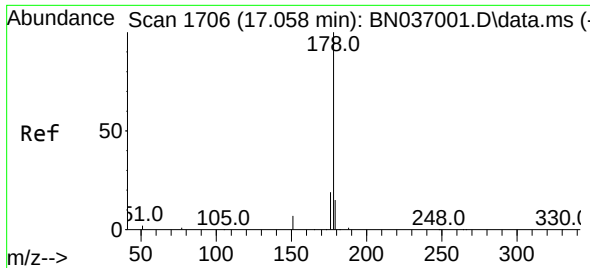
Tgt Ion:200 Resp: 1071  
Ion Ratio Lower Upper  
200 100  
173 30.3 25.2 37.8  
215 45.2 39.3 58.9



#24  
Pentachlorophenol  
Concen: 0.333 ng  
RT: 16.661 min Scan# 1674  
Delta R.T. -0.012 min  
Lab File: BN037110.D  
Acq: 28 May 2025 15:54

Tgt Ion:266 Resp: 635  
Ion Ratio Lower Upper  
266 100  
264 65.4 47.9 71.9  
268 62.8 50.0 75.0

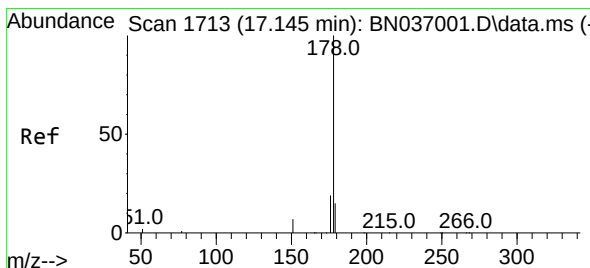
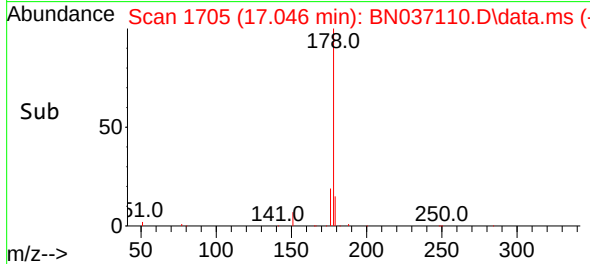
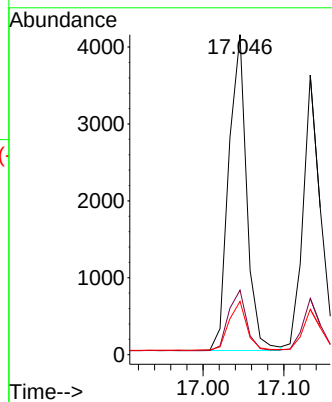
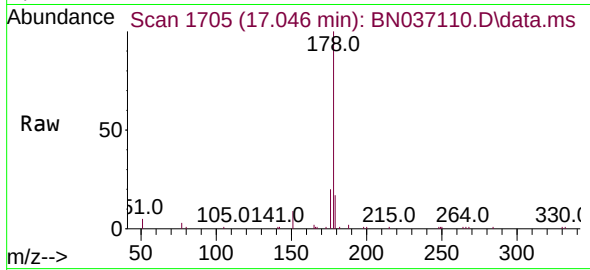




#25  
Phenanthrene  
Concen: 0.378 ng  
RT: 17.046 min Scan# 1711  
Delta R.T. -0.012 min  
Lab File: BN037110.D  
Acq: 28 May 2025 15:54

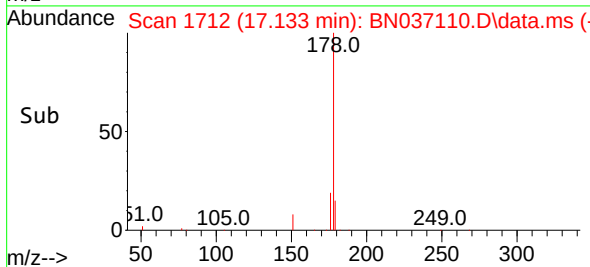
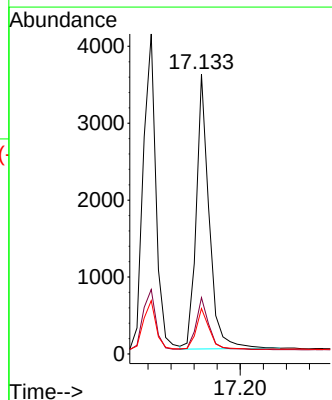
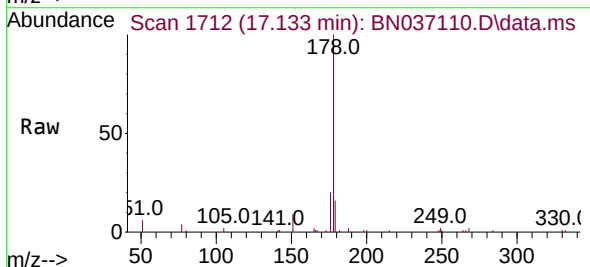
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

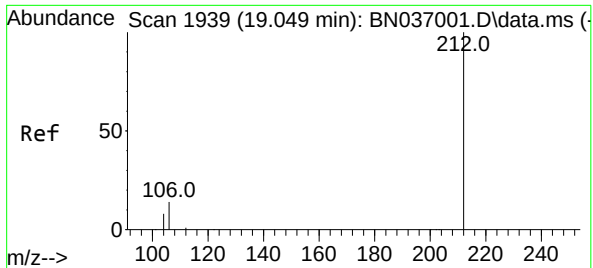
Tgt Ion:178 Resp: 6328  
Ion Ratio Lower Upper  
178 100  
176 19.2 15.7 23.5  
179 15.4 12.2 18.2



#26  
Anthracene  
Concen: 0.365 ng  
RT: 17.133 min Scan# 1712  
Delta R.T. -0.012 min  
Lab File: BN037110.D  
Acq: 28 May 2025 15:54

Tgt Ion:178 Resp: 5559  
Ion Ratio Lower Upper  
178 100  
176 19.3 15.0 22.6  
179 15.1 12.3 18.5

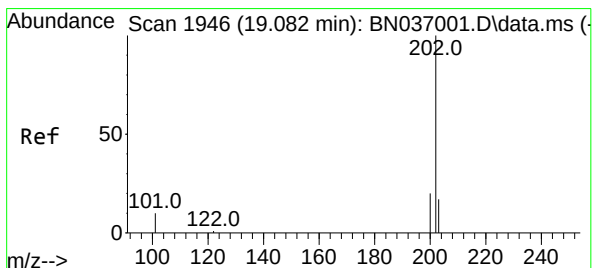
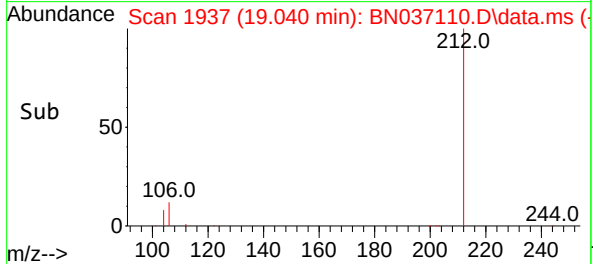
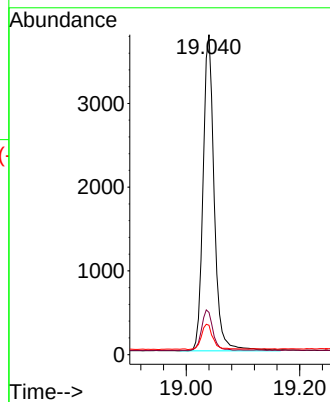
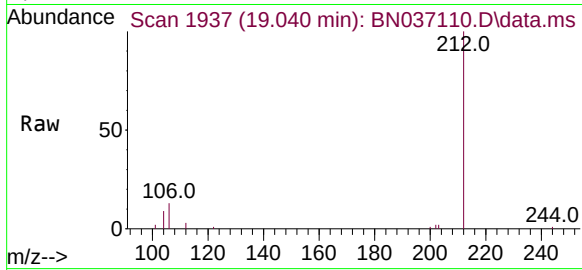




#27  
Fluoranthene-d10  
Concen: 0.365 ng  
RT: 19.040 min Scan# 1939  
Delta R.T. -0.009 min  
Lab File: BN037110.D  
Acq: 28 May 2025 15:54

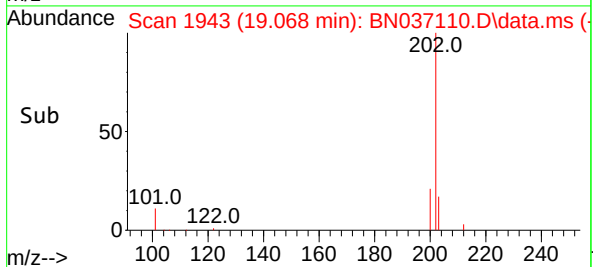
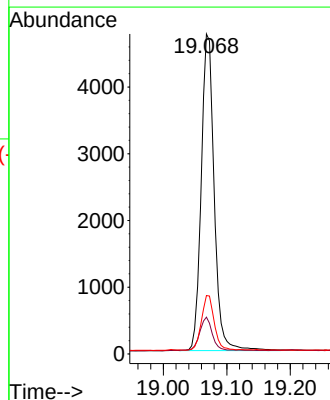
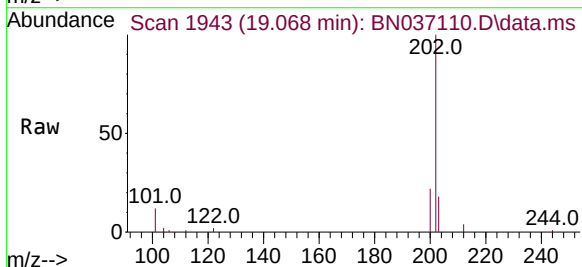
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 212     | 100   |       |       |
| 106     | 12.8  | 11.3  | 16.9  |
| 104     | 8.3   | 6.7   | 10.1  |

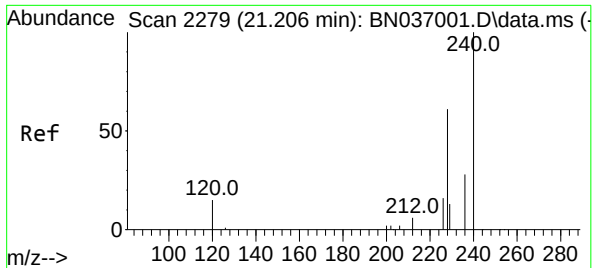


#28  
Fluoranthene  
Concen: 0.337 ng  
RT: 19.068 min Scan# 1943  
Delta R.T. -0.014 min  
Lab File: BN037110.D  
Acq: 28 May 2025 15:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 10.8  | 8.9   | 13.3  |
| 203     | 17.1  | 13.8  | 20.8  |



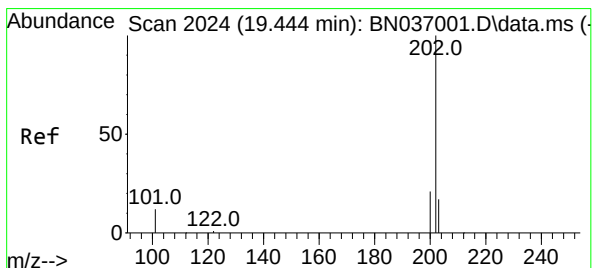
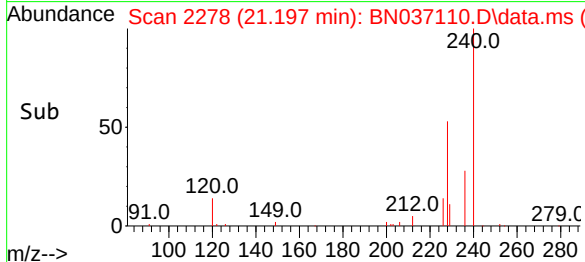
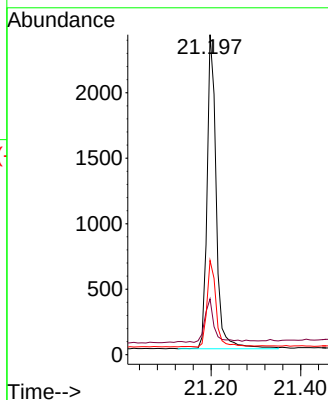
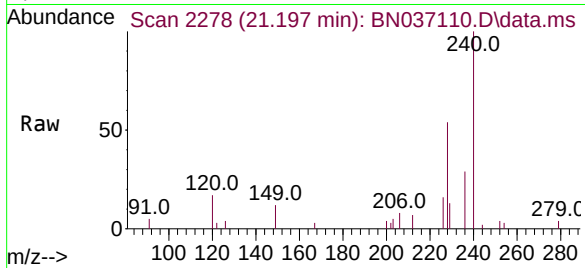




#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.197 min Scan# 21  
Delta R.T. -0.009 min  
Lab File: BN037110.D  
Acq: 28 May 2025 15:54

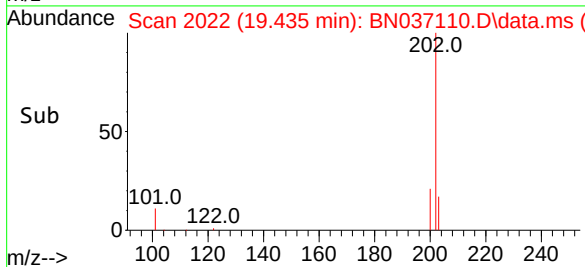
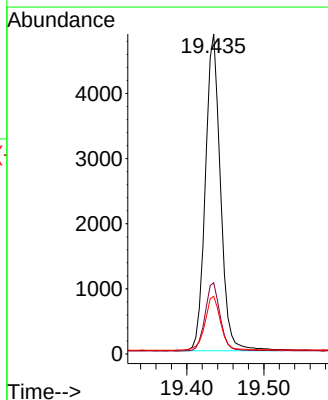
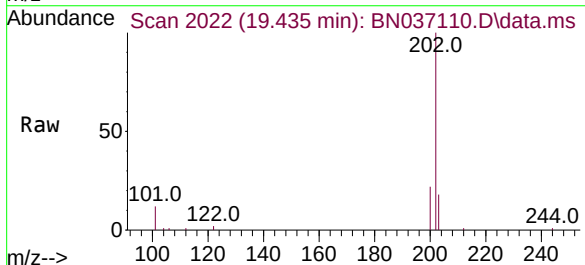
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

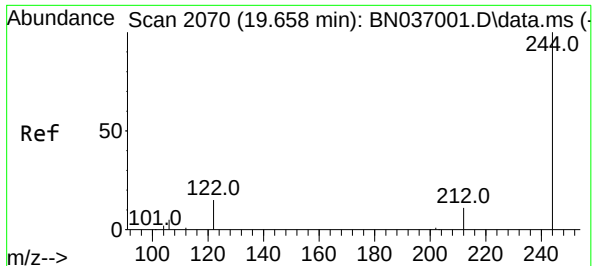
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 17.5  | 15.1  | 22.7  |
| 236     | 29.5  | 24.0  | 36.0  |



#30  
Pyrene  
Concen: 0.454 ng  
RT: 19.435 min Scan# 2022  
Delta R.T. -0.009 min  
Lab File: BN037110.D  
Acq: 28 May 2025 15:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 21.6  | 17.1  | 25.7  |
| 203     | 18.0  | 14.2  | 21.4  |

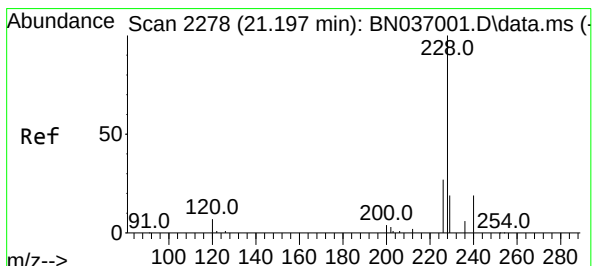
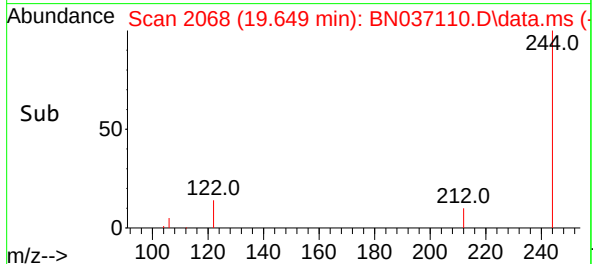
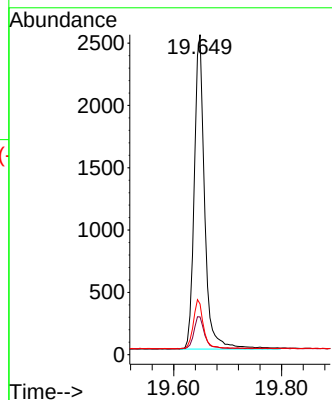
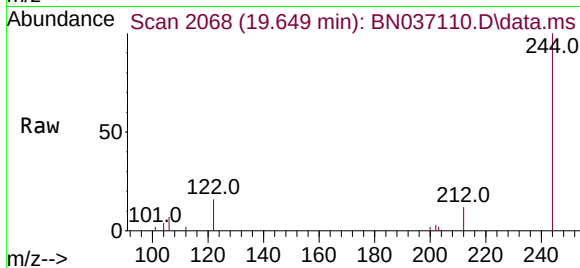




#31  
Terphenyl-d14  
Concen: 0.462 ng  
RT: 19.649 min Scan# 2070  
Delta R.T. -0.009 min  
Lab File: BN037110.D  
Acq: 28 May 2025 15:54

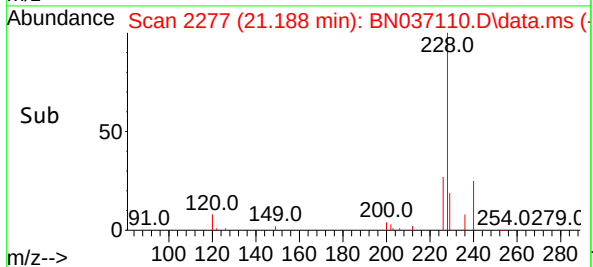
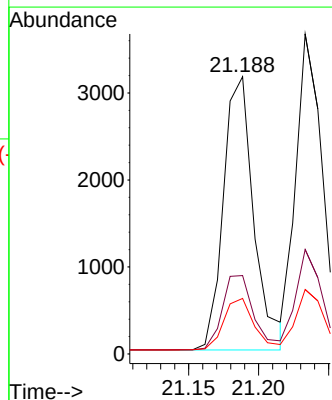
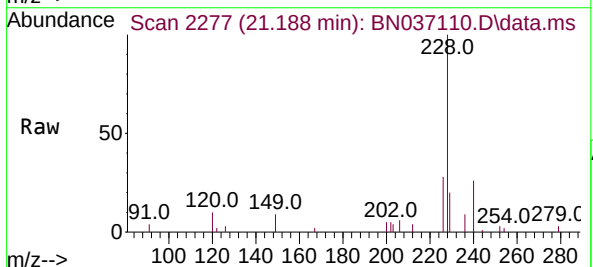
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

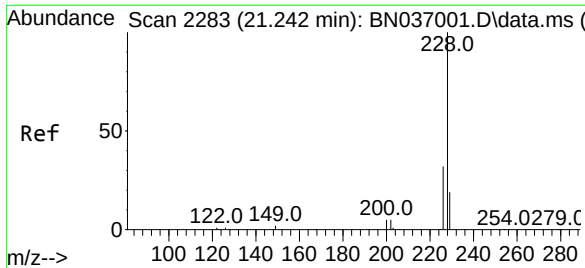
Tgt Ion:244 Resp: 3366  
Ion Ratio Lower Upper  
244 100  
212 11.8 9.7 14.5  
122 15.8 13.4 20.0



#32  
Benzo(a)anthracene  
Concen: 0.371 ng  
RT: 21.188 min Scan# 2277  
Delta R.T. -0.009 min  
Lab File: BN037110.D  
Acq: 28 May 2025 15:54

Tgt Ion:228 Resp: 4757  
Ion Ratio Lower Upper  
228 100  
226 28.3 22.2 33.4  
229 20.0 16.0 24.0





#33

Chrysene

Concen: 0.381 ng

RT: 21.233 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037110.D

Acq: 28 May 2025 15:54

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC

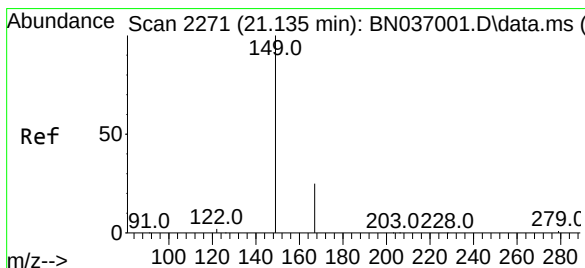
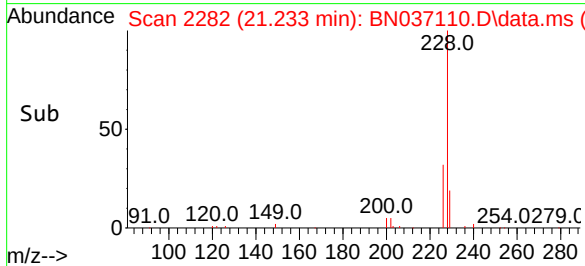
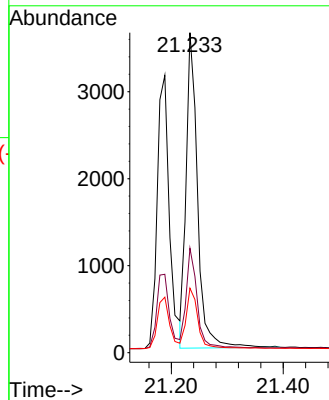
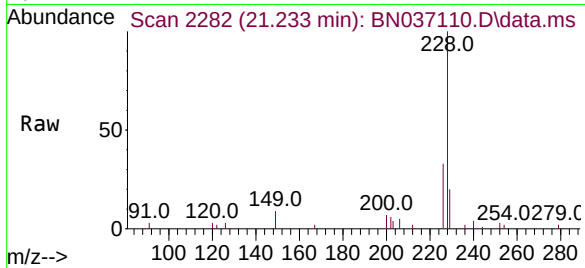
Tgt Ion:228 Resp: 5169

Ion Ratio Lower Upper

228 100

226 32.7 26.3 39.5

229 20.1 16.2 24.2



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.380 ng

RT: 21.126 min Scan# 2270

Delta R.T. -0.009 min

Lab File: BN037110.D

Acq: 28 May 2025 15:54

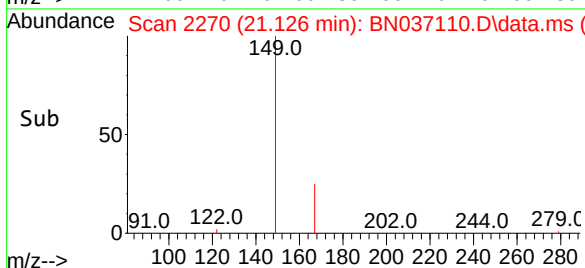
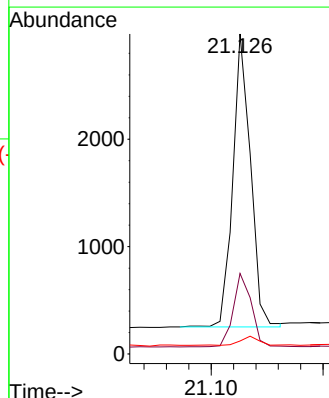
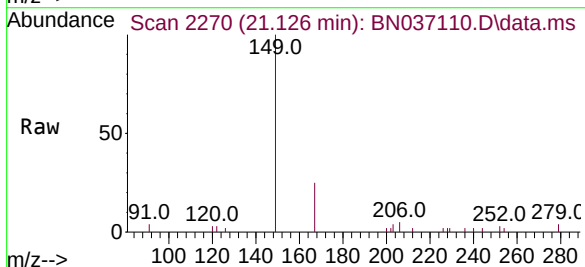
Tgt Ion:149 Resp: 2999

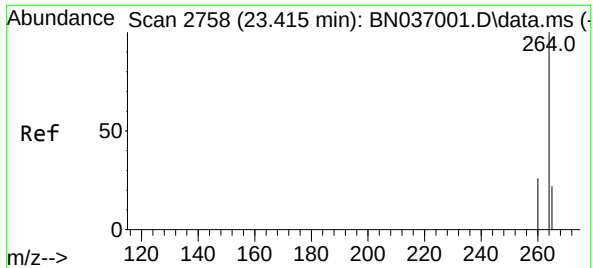
Ion Ratio Lower Upper

149 100

167 25.9 20.6 30.8

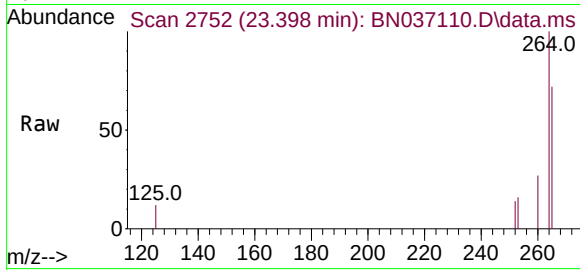
279 3.2 2.6 3.8



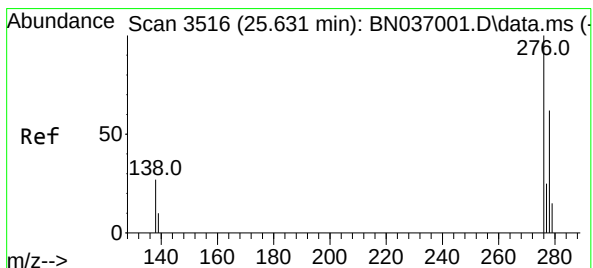
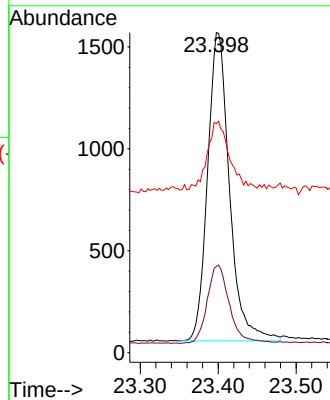
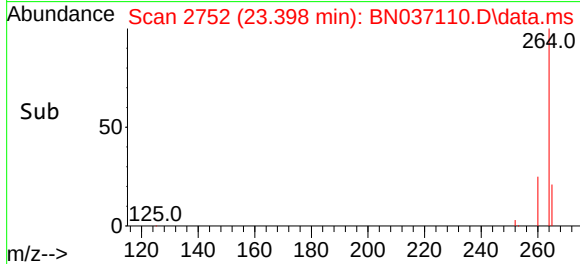


#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.398 min Scan# 21  
Delta R.T. -0.018 min  
Lab File: BN037110.D  
Acq: 28 May 2025 15:54

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

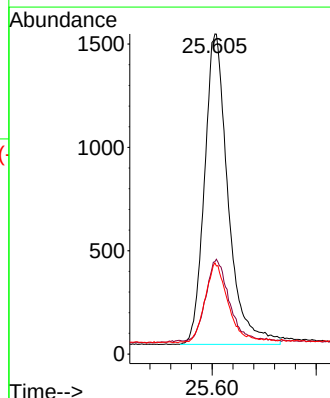
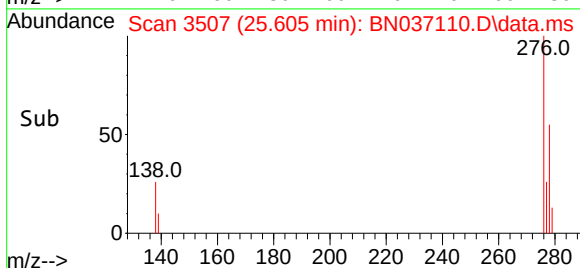
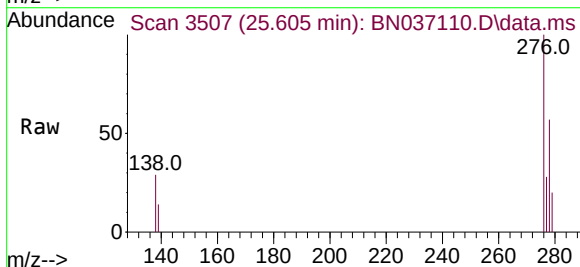


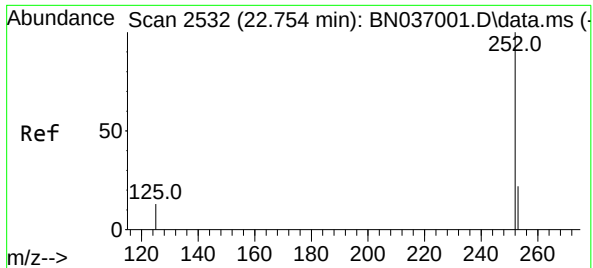
Tgt Ion:264 Resp: 2953  
Ion Ratio Lower Upper  
264 100  
260 26.9 21.9 32.9  
265 71.6 51.6 77.4



#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.393 ng  
RT: 25.605 min Scan# 3507  
Delta R.T. -0.026 min  
Lab File: BN037110.D  
Acq: 28 May 2025 15:54

Tgt Ion:276 Resp: 4735  
Ion Ratio Lower Upper  
276 100  
138 25.7 22.7 34.1  
277 24.2 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 0.370 ng

RT: 22.743 min Scan# 2528

Delta R.T. -0.012 min

Lab File: BN037110.D

Acq: 28 May 2025 15:54

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC

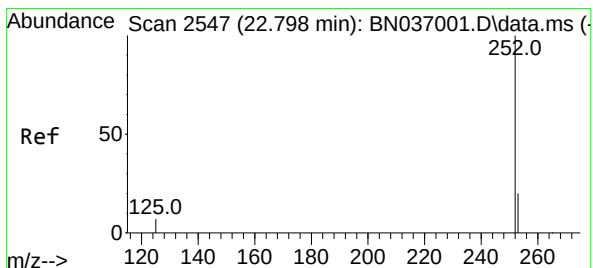
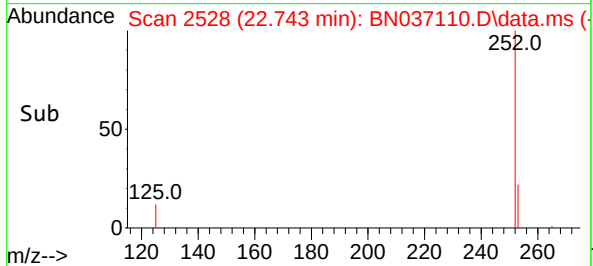
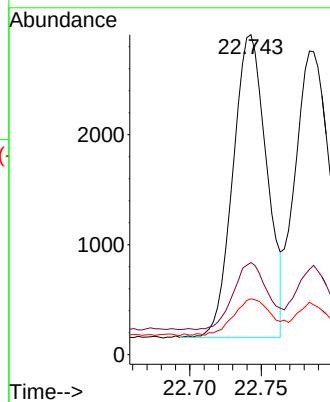
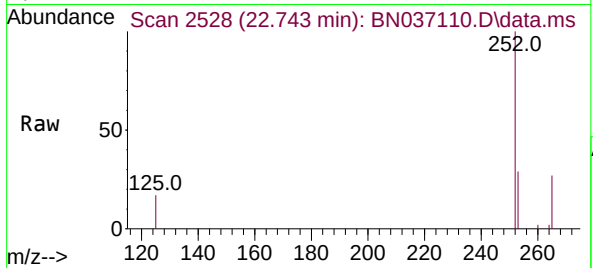
Tgt Ion:252 Resp: 4529

Ion Ratio Lower Upper

252 100

253 28.8 21.8 32.6

125 17.5 14.6 21.8



#38

Benzo(k)fluoranthene

Concen: 0.391 ng

RT: 22.784 min Scan# 2542

Delta R.T. -0.015 min

Lab File: BN037110.D

Acq: 28 May 2025 15:54

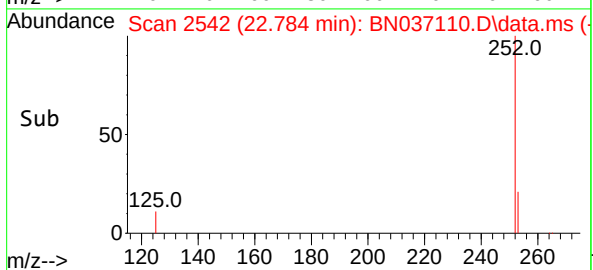
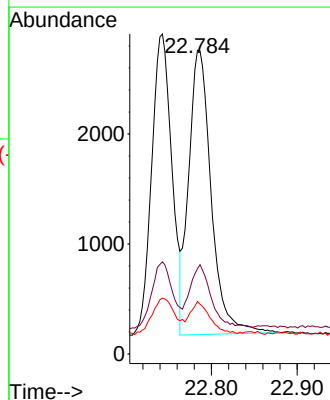
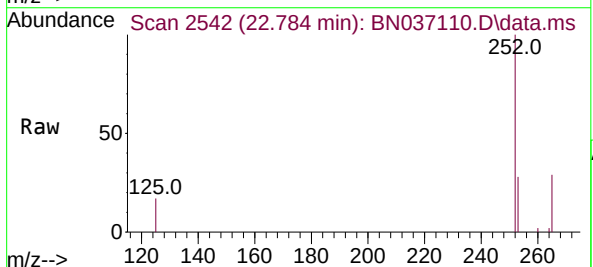
Tgt Ion:252 Resp: 4726

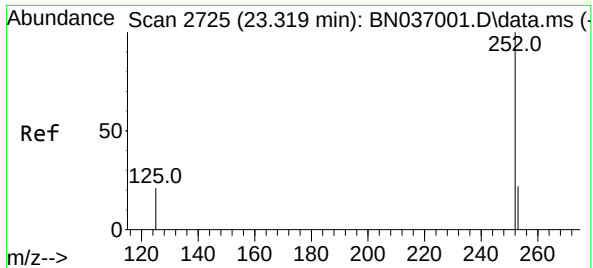
Ion Ratio Lower Upper

252 100

253 28.1 21.4 32.2

125 17.3 13.0 19.4





#39

Benzo(a)pyrene

Concen: 0.366 ng

RT: 23.304 min Scan# 21

Delta R.T. -0.015 min

Lab File: BN037110.D

Acq: 28 May 2025 15:54

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC

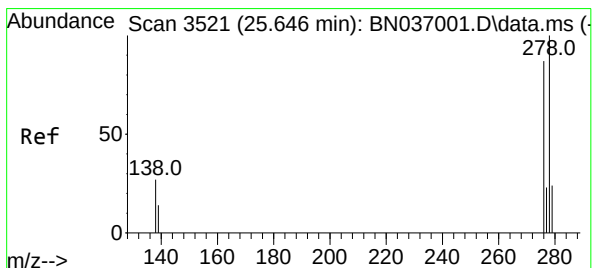
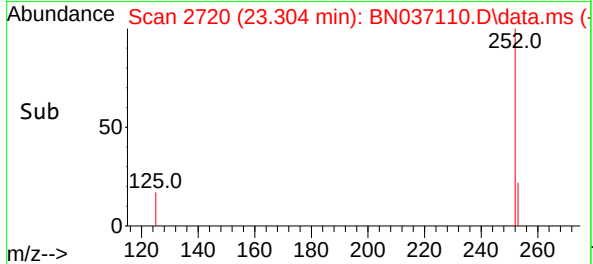
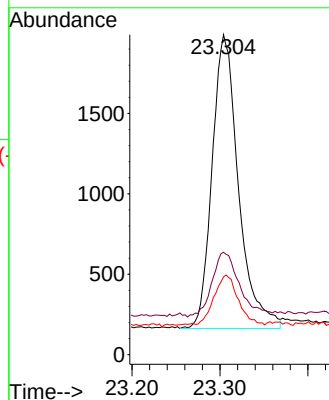
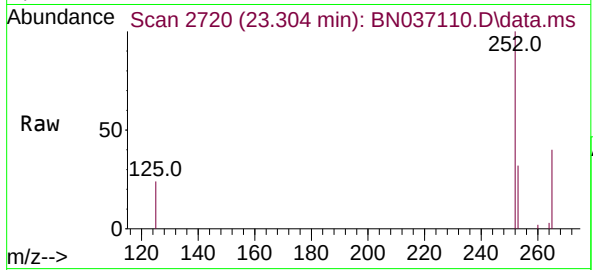
Tgt Ion:252 Resp: 3803

Ion Ratio Lower Upper

252 100

253 32.0 23.8 35.6

125 24.3 21.8 32.6



#40

Dibenzo(a,h)anthracene

Concen: 0.397 ng

RT: 25.623 min Scan# 3513

Delta R.T. -0.023 min

Lab File: BN037110.D

Acq: 28 May 2025 15:54

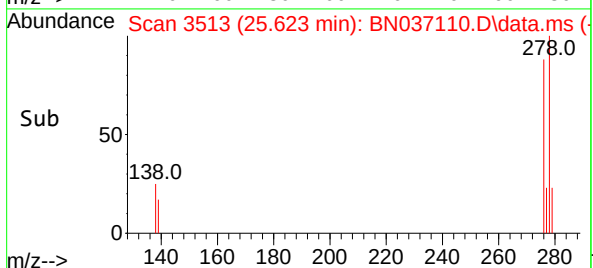
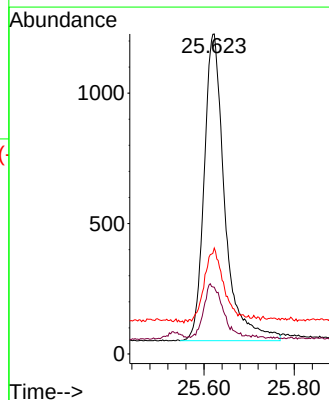
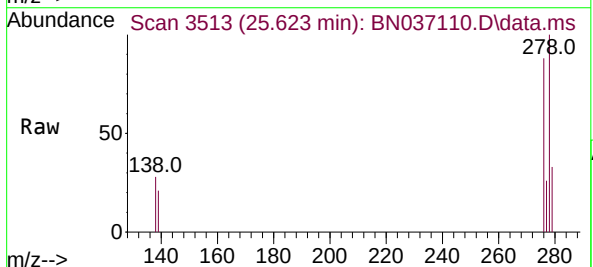
Tgt Ion:278 Resp: 3725

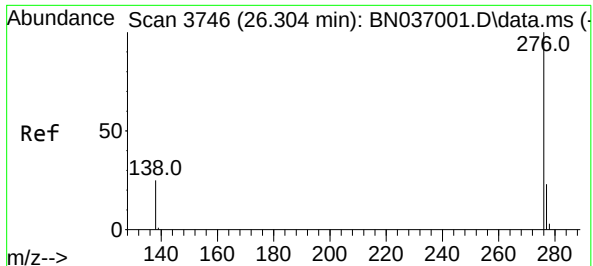
Ion Ratio Lower Upper

278 100

139 20.9 17.4 26.0

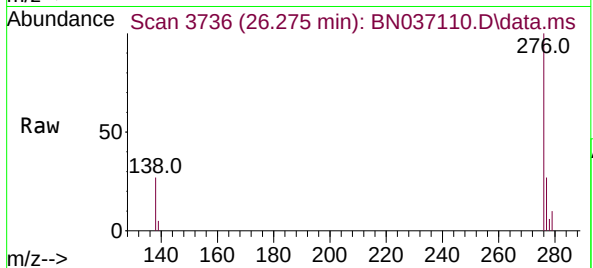
279 33.1 24.6 37.0



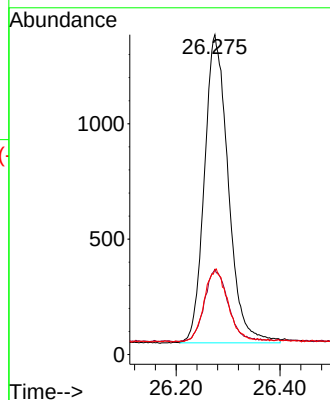
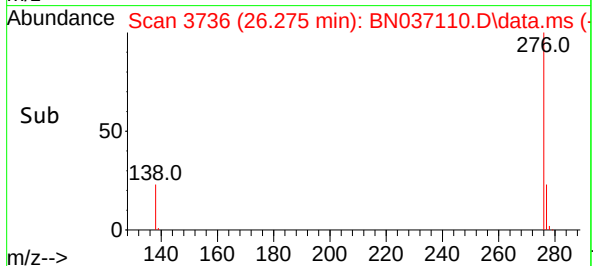


#41  
Benzo(g,h,i)perylene  
Concen: 0.416 ng  
RT: 26.275 min Scan# 31  
Delta R.T. -0.029 min  
Lab File: BN037110.D  
Acq: 28 May 2025 15:54

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC



Tgt Ion:276 Resp: 4250  
Ion Ratio Lower Upper  
276 100  
277 26.6 20.2 30.4  
138 26.6 22.0 33.0



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN052825\  
 Data File : BN037110.D  
 Acq On : 28 May 2025 15:54  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 LabSampleId :  
 SSTDCCC0.4

Quant Time: May 28 17:04:58 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN051425.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 14 11:26:32 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   | 106   | -0.01    |
| 2       | 1,4-Dioxane                | 0.491 | 0.478 | 2.6   | 99    | 0.00     |
| 3       | n-Nitrosodimethylamine     | 1.054 | 1.075 | -2.0  | 116   | 0.00     |
| 4 S     | 2-Fluorophenol             | 1.048 | 0.942 | 10.1  | 88    | -0.01    |
| 5 S     | Phenol-d6                  | 1.311 | 1.119 | 14.6  | 86    | -0.01    |
| 6       | bis(2-Chloroethyl)ether    | 1.207 | 1.102 | 8.7   | 101   | 0.00     |
| 7 I     | Naphthalene-d8             | 1.000 | 1.000 | 0.0   | 107   | -0.02    |
| 8 S     | Nitrobenzene-d5            | 0.436 | 0.411 | 5.7   | 110   | -0.02    |
| 9       | Naphthalene                | 1.182 | 1.109 | 6.2   | 104   | -0.01    |
| 10      | Hexachlorobutadiene        | 0.248 | 0.255 | -2.8  | 112   | -0.02    |
| 11 SURR | 2-Methylnaphthalene-d10    | 0.563 | 0.578 | -2.7  | 112   | -0.01    |
| 12      | 2-Methylnaphthalene        | 0.760 | 0.725 | 4.6   | 105   | -0.02    |
| 13 I    | Acenaphthene-d10           | 1.000 | 1.000 | 0.0   | 108   | -0.01    |
| 14 S    | 2,4,6-Tribromophenol       | 0.176 | 0.163 | 7.4   | 99    | -0.01    |
| 15 S    | 2-Fluorobiphenyl           | 1.832 | 1.776 | 3.1   | 101   | -0.02    |
| 16      | Acenaphthylene             | 1.947 | 1.819 | 6.6   | 103   | -0.02    |
| 17      | Acenaphthene               | 1.272 | 1.202 | 5.5   | 104   | -0.01    |
| 18      | Fluorene                   | 1.669 | 1.566 | 6.2   | 103   | -0.01    |
| 19 I    | Phenanthrene-d10           | 1.000 | 1.000 | 0.0   | 102   | -0.01    |
| 20      | 4,6-Dinitro-2-methylphenol | 0.090 | 0.076 | 15.6  | 106   | -0.01    |
| 21      | 4-Bromophenyl-phenylether  | 0.253 | 0.253 | 0.0   | 104   | -0.01    |
| 22      | Hexachlorobenzene          | 0.270 | 0.283 | -4.8  | 103   | -0.01    |
| 23      | Atrazine                   | 0.220 | 0.209 | 5.0   | 101   | -0.01    |
| 24      | Pentachlorophenol          | 0.149 | 0.124 | 16.8  | 90    | -0.01    |
| 25      | Phenanthrene               | 1.307 | 1.235 | 5.5   | 98    | -0.01    |
| 26      | Anthracene                 | 1.190 | 1.085 | 8.8   | 95    | -0.01    |
| 27 SURR | Fluoranthene-d10           | 1.097 | 1.001 | 8.8   | 95    | 0.00     |
| 28      | Fluoranthene               | 1.562 | 1.315 | 15.8  | 90    | -0.01    |
| 29 I    | Chrysene-d12               | 1.000 | 1.000 | 0.0   | 76    | 0.00     |
| 30      | Pyrene                     | 1.711 | 1.943 | -13.6 | 86    | 0.00     |
| 31 S    | Terphenyl-d14              | 0.856 | 0.988 | -15.4 | 87    | 0.00     |
| 32      | Benzo(a)anthracene         | 1.506 | 1.396 | 7.3   | 72    | 0.00     |
| 33      | Chrysene                   | 1.593 | 1.517 | 4.8   | 72    | 0.00     |
| 34      | Bis(2-ethylhexyl)phthalate | 0.927 | 0.880 | 5.1   | 74    | 0.00     |
| 35 I    | Perylene-d12               | 1.000 | 1.000 | 0.0   | 65    | -0.02    |
| 36      | Indeno(1,2,3-cd)pyrene     | 1.634 | 1.603 | 1.9   | 64    | -0.03    |
| 37      | Benzo(b)fluoranthene       | 1.659 | 1.534 | 7.5   | 63    | -0.01    |
| 38      | Benzo(k)fluoranthene       | 1.639 | 1.600 | 2.4   | 64    | -0.01    |
| 39 C    | Benzo(a)pyrene             | 1.407 | 1.288 | 8.5   | 61    | -0.01    |
| 40      | Dibenzo(a,h)anthracene     | 1.272 | 1.261 | 0.9   | 65    | -0.02    |
| 41      | Benzo(g,h,i)perylene       | 1.383 | 1.439 | -4.0  | 66    | -0.03    |

(#) = Out of Range

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



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN052825\  
 Data File : BN037110.D  
 Acq On : 28 May 2025 15:54  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 LabSampleId :  
 SSTDCCC0.4

Quant Time: May 28 17:04:58 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN051425.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 14 11:26:32 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   | 106   | -0.01    |
| 2       | 1,4-Dioxane                | 0.400  | 0.390 | 2.5   | 99    | 0.00     |
| 3       | n-Nitrosodimethylamine     | 0.400  | 0.408 | -2.0  | 116   | 0.00     |
| 4 S     | 2-Fluorophenol             | 0.400  | 0.360 | 10.0  | 88    | -0.01    |
| 5 S     | Phenol-d6                  | 0.400  | 0.341 | 14.8  | 86    | -0.01    |
| 6       | bis(2-Chloroethyl)ether    | 0.400  | 0.365 | 8.8   | 101   | 0.00     |
| 7 I     | Naphthalene-d8             | 0.400  | 0.400 | 0.0   | 107   | -0.02    |
| 8 S     | Nitrobenzene-d5            | 0.400  | 0.377 | 5.8   | 110   | -0.02    |
| 9       | Naphthalene                | 0.400  | 0.375 | 6.3   | 104   | -0.01    |
| 10      | Hexachlorobutadiene        | 0.400  | 0.411 | -2.7  | 112   | -0.02    |
| 11 SURR | 2-Methylnaphthalene-d10    | 0.400  | 0.411 | -2.7  | 112   | -0.01    |
| 12      | 2-Methylnaphthalene        | 0.400  | 0.381 | 4.8   | 105   | -0.02    |
| 13 I    | Acenaphthene-d10           | 0.400  | 0.400 | 0.0   | 108   | -0.01    |
| 14 S    | 2,4,6-Tribromophenol       | 0.400  | 0.372 | 7.0   | 99    | -0.01    |
| 15 S    | 2-Fluorobiphenyl           | 0.400  | 0.388 | 3.0   | 101   | -0.02    |
| 16      | Acenaphthylene             | 0.400  | 0.374 | 6.5   | 103   | -0.02    |
| 17      | Acenaphthene               | 0.400  | 0.378 | 5.5   | 104   | -0.01    |
| 18      | Fluorene                   | 0.400  | 0.375 | 6.3   | 103   | -0.01    |
| 19 I    | Phenanthrene-d10           | 0.400  | 0.400 | 0.0   | 102   | -0.01    |
| 20      | 4,6-Dinitro-2-methylphenol | 0.400  | 0.395 | 1.3   | 106   | -0.01    |
| 21      | 4-Bromophenyl-phenylether  | 0.400  | 0.401 | -0.3  | 104   | -0.01    |
| 22      | Hexachlorobenzene          | 0.400  | 0.419 | -4.7  | 103   | -0.01    |
| 23      | Atrazine                   | 0.400  | 0.380 | 5.0   | 101   | -0.01    |
| 24      | Pentachlorophenol          | 0.400  | 0.333 | 16.8  | 90    | -0.01    |
| 25      | Phenanthrene               | 0.400  | 0.378 | 5.5   | 98    | -0.01    |
| 26      | Anthracene                 | 0.400  | 0.365 | 8.8   | 95    | -0.01    |
| 27 SURR | Fluoranthene-d10           | 0.400  | 0.365 | 8.8   | 95    | 0.00     |
| 28      | Fluoranthene               | 0.400  | 0.337 | 15.8  | 90    | -0.01    |
| 29 I    | Chrysene-d12               | 0.400  | 0.400 | 0.0   | 76    | 0.00     |
| 30      | Pyrene                     | 0.400  | 0.454 | -13.5 | 86    | 0.00     |
| 31 S    | Terphenyl-d14              | 0.400  | 0.462 | -15.5 | 87    | 0.00     |
| 32      | Benzo(a)anthracene         | 0.400  | 0.371 | 7.3   | 72    | 0.00     |
| 33      | Chrysene                   | 0.400  | 0.381 | 4.8   | 72    | 0.00     |
| 34      | Bis(2-ethylhexyl)phthalate | 0.400  | 0.380 | 5.0   | 74    | 0.00     |
| 35 I    | Perylene-d12               | 0.400  | 0.400 | 0.0   | 65    | -0.02    |
| 36      | Indeno(1,2,3-cd)pyrene     | 0.400  | 0.393 | 1.8   | 64    | -0.03    |
| 37      | Benzo(b)fluoranthene       | 0.400  | 0.370 | 7.5   | 63    | -0.01    |
| 38      | Benzo(k)fluoranthene       | 0.400  | 0.391 | 2.3   | 64    | -0.01    |
| 39 C    | Benzo(a)pyrene             | 0.400  | 0.366 | 8.5   | 61    | -0.01    |
| 40      | Dibenzo(a,h)anthracene     | 0.400  | 0.397 | 0.8   | 65    | -0.02    |
| 41      | Benzo(g,h,i)perylene       | 0.400  | 0.416 | -4.0  | 66    | -0.03    |

(#) = 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.: Q2118 SAS No.: Q2118 SDG No.: Q2118

Instrument ID: BNA\_N Calibration Date/Time: 05/28/2025 17:11

Lab File ID: BN037112.D Init. Calib. Date(s): 05/13/2025 05/13/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 17:41 21:17

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

| COMPOUND                | RRF   | RRF0.4 | MIN<br>RRF | %D    | MAX%D |
|-------------------------|-------|--------|------------|-------|-------|
| 2-Methylnaphthalene-d10 | 0.563 | 0.552  |            | -2.0  | 20.0  |
| Fluoranthene-d10        | 1.097 | 0.986  |            | -10.1 | 20.0  |
| 2-Fluorophenol          | 1.048 | 0.938  |            | -10.5 | 20.0  |
| Phenol-d6               | 1.311 | 1.123  |            | -14.3 | 20.0  |
| Nitrobenzene-d5         | 0.436 | 0.426  |            | -2.3  | 20.0  |
| 2-Fluorobiphenyl        | 1.832 | 1.889  |            | 3.1   | 20.0  |
| 2,4,6-Tribromophenol    | 0.176 | 0.145  |            | -17.6 | 20.0  |
| Terphenyl-d14           | 0.856 | 0.888  |            | 3.7   | 20.0  |
| 1,4-Dioxane             | 0.491 | 0.489  |            | -0.4  | 20.0  |

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN052825\  
 Data File : BN037112.D  
 Acq On : 28 May 2025 17:11  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4

Quant Time: May 28 17:56:45 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN051425.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 14 11:26:32 2025  
 Response via : Initial Calibration

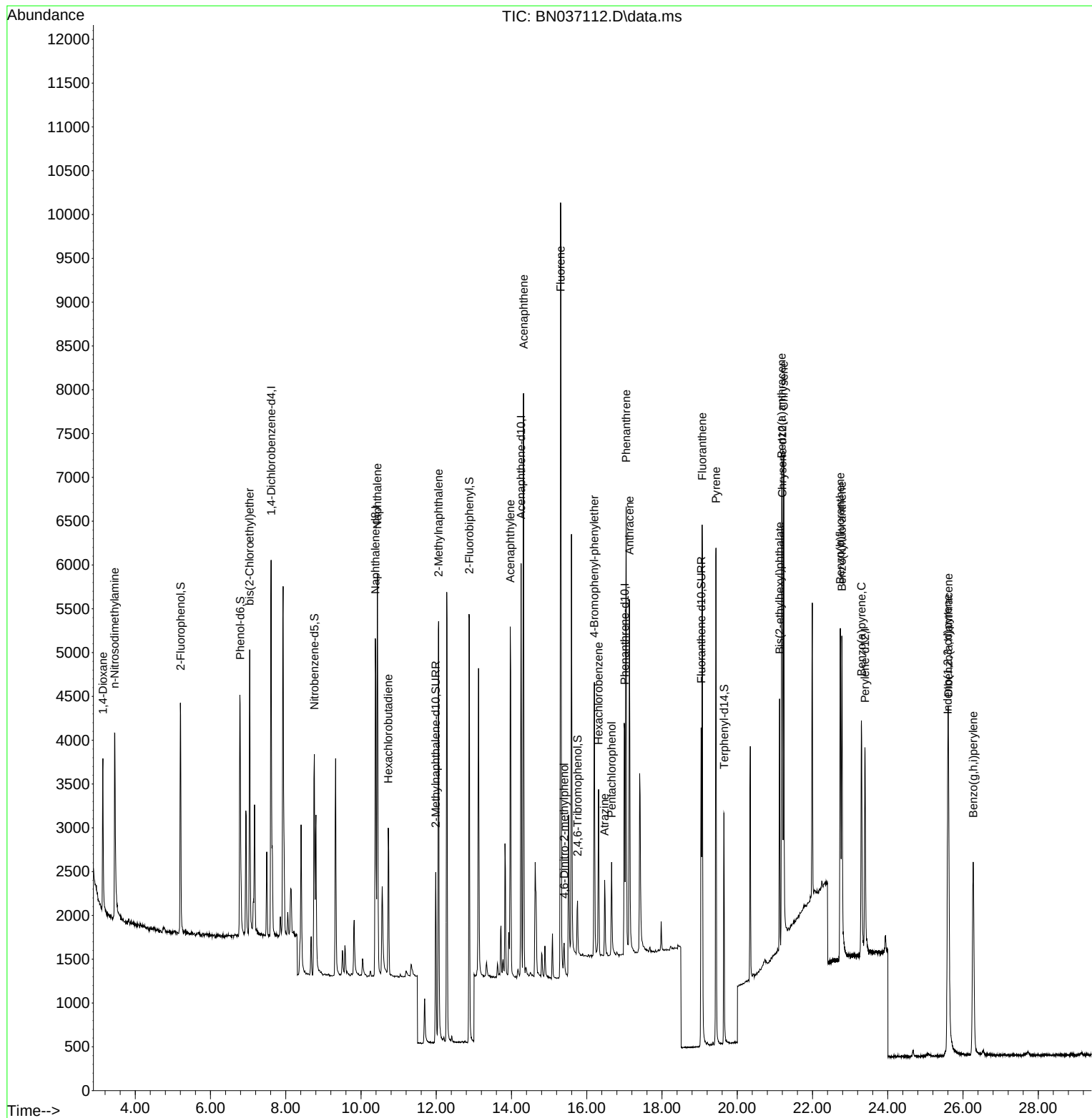
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.611  | 152  | 2022     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.383 | 136  | 5050     | 0.400 | ng    | #-0.02   |
| 13) Acenaphthene-d10          | 14.256 | 164  | 2480     | 0.400 | ng    | -0.01    |
| 19) Phenanthrene-d10          | 17.009 | 188  | 4231     | 0.400 | ng    | # 0.00   |
| 29) Chrysene-d12              | 21.198 | 240  | 3037     | 0.400 | ng    | # 0.00   |
| 35) Perylene-d12              | 23.395 | 264  | 3091     | 0.400 | ng    | -0.02    |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.206  | 112  | 1896     | 0.358 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.788  | 99   | 2270     | 0.342 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.760  | 82   | 2149     | 0.391 | ng    | -0.01    |
| 11) 2-Methylnaphthalene-d10   | 11.986 | 152  | 2789     | 0.392 | ng    | -0.01    |
| 14) 2,4,6-Tribromophenol      | 15.755 | 330  | 359      | 0.330 | ng    | -0.01    |
| 15) 2-Fluorobiphenyl          | 12.878 | 172  | 4684     | 0.412 | ng    | -0.01    |
| 27) Fluoranthene-d10          | 19.040 | 212  | 4172     | 0.360 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.649 | 244  | 2697     | 0.415 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
|                               |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.140  | 88   | 989      | 0.399 | ng    | 96       |
| 3) n-Nitrosodimethylamine     | 3.451  | 42   | 2132     | 0.400 | ng    | # 89     |
| 6) bis(2-Chloroethyl)ether    | 7.040  | 93   | 2224     | 0.365 | ng    | 98       |
| 9) Naphthalene                | 10.436 | 128  | 5722     | 0.383 | ng    | 99       |
| 10) Hexachlorobutadiene       | 10.725 | 225  | 1302     | 0.416 | ng    | # 99     |
| 12) 2-Methylnaphthalene       | 12.062 | 142  | 3464     | 0.361 | ng    | 98       |
| 16) Acenaphthylene            | 13.967 | 152  | 4556     | 0.377 | ng    | 99       |
| 17) Acenaphthene              | 14.320 | 154  | 2978     | 0.378 | ng    | 98       |
| 18) Fluorene                  | 15.304 | 166  | 3731     | 0.361 | ng    | 100      |
| 20) 4,6-Dinitro-2-methylph... | 15.400 | 198  | 325      | 0.398 | ng    | 91       |
| 21) 4-Bromophenyl-phenylether | 16.202 | 248  | 1086     | 0.406 | ng    | 96       |
| 22) Hexachlorobenzene         | 16.313 | 284  | 1215     | 0.425 | ng    | 98       |
| 23) Atrazine                  | 16.475 | 200  | 821      | 0.352 | ng    | 95       |
| 24) Pentachlorophenol         | 16.661 | 266  | 552      | 0.350 | ng    | 97       |
| 25) Phenanthrene              | 17.046 | 178  | 5218     | 0.377 | ng    | 99       |
| 26) Anthracene                | 17.133 | 178  | 4596     | 0.365 | ng    | 99       |
| 28) Fluoranthene              | 19.068 | 202  | 5380     | 0.326 | ng    | 100      |
| 30) Pyrene                    | 19.435 | 202  | 5421     | 0.417 | ng    | 99       |
| 32) Benzo(a)anthracene        | 21.180 | 228  | 4179     | 0.365 | ng    | 98       |
| 33) Chrysene                  | 21.233 | 228  | 4833     | 0.400 | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 21.126 | 149  | 2513     | 0.357 | ng    | 99       |
| 36) Indeno(1,2,3-cd)pyrene    | 25.593 | 276  | 5085     | 0.403 | ng    | 97       |
| 37) Benzo(b)fluoranthene      | 22.740 | 252  | 4587     | 0.358 | ng    | 97       |
| 38) Benzo(k)fluoranthene      | 22.781 | 252  | 4707     | 0.372 | ng    | 96       |
| 39) Benzo(a)pyrene            | 23.301 | 252  | 3993     | 0.367 | ng    | 98       |
| 40) Dibenzo(a,h)anthracene    | 25.614 | 278  | 3956     | 0.402 | ng    | 98       |
| 41) Benzo(g,h,i)perylene      | 26.272 | 276  | 4539     | 0.425 | ng    | 99       |
| -----                         |        |      |          |       |       |          |

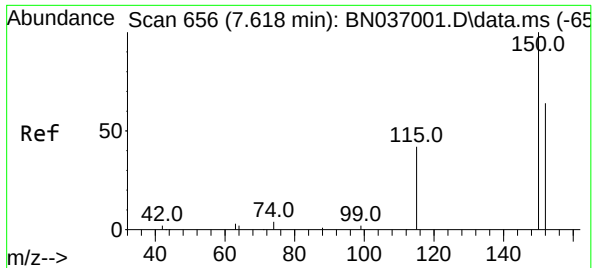
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN052825\  
 Data File : BN037112.D  
 Acq On : 28 May 2025 17:11  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4

Quant Time: May 28 17:56:45 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN051425.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 14 11:26:32 2025  
 Response via : Initial Calibration

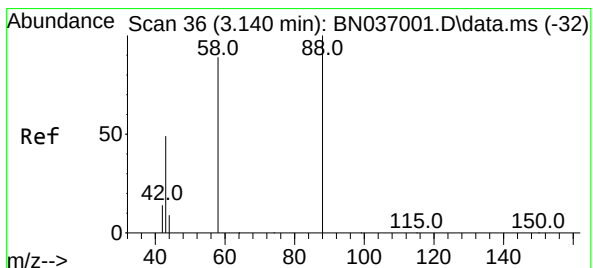
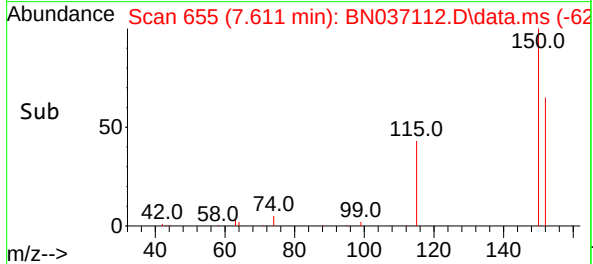
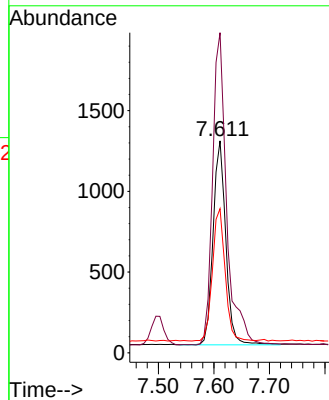
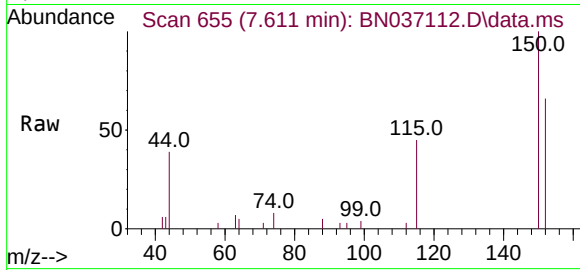




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 0.400 ng  
 RT: 7.611 min Scan# 61  
 Delta R.T. -0.007 min  
 Lab File: BN037112.D  
 Acq: 28 May 2025 17:11

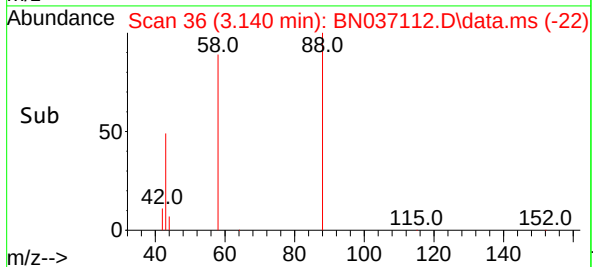
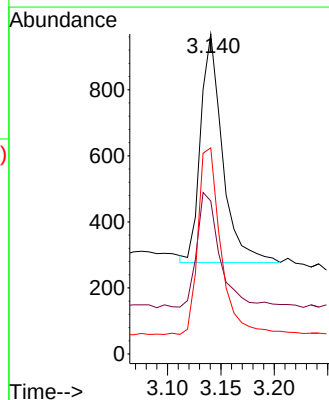
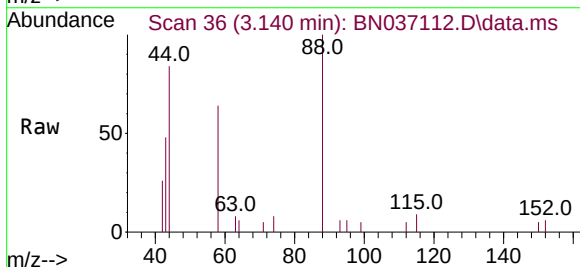
Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4

Tgt Ion:152 Resp: 2022  
 Ion Ratio Lower Upper  
 152 100  
 150 151.0 123.9 185.9  
 115 68.0 55.8 83.8

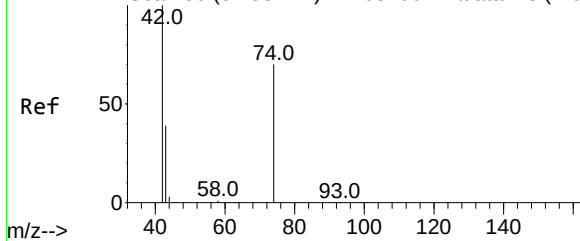


#2  
 1,4-Dioxane  
 Concen: 0.399 ng  
 RT: 3.140 min Scan# 36  
 Delta R.T. 0.000 min  
 Lab File: BN037112.D  
 Acq: 28 May 2025 17:11

Tgt Ion: 88 Resp: 989  
 Ion Ratio Lower Upper  
 88 100  
 43 52.6 37.4 56.0  
 58 85.1 68.8 103.2



Abundance Scan 80 (3.458 min): BN037001.D\data.ms (-76)



#3

n-Nitrosodimethylamine

Concen: 0.400 ng

RT: 3.451 min Scan# 79

Delta R.T. -0.007 min

Lab File: BN037112.D

Acq: 28 May 2025 17:11

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion: 42 Resp: 2132

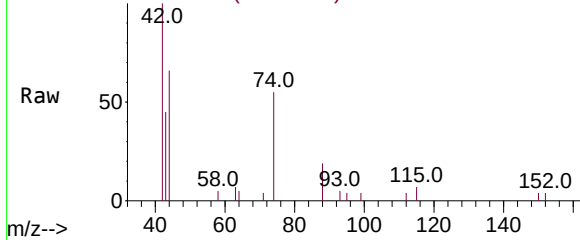
Ion Ratio Lower Upper

42 100

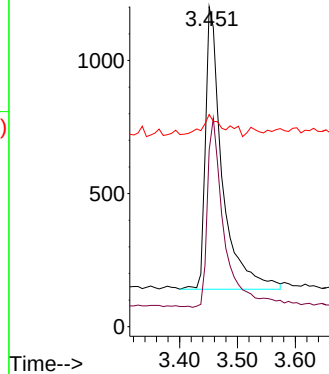
74 67.1 59.8 89.6

44 6.0 11.9 17.9#

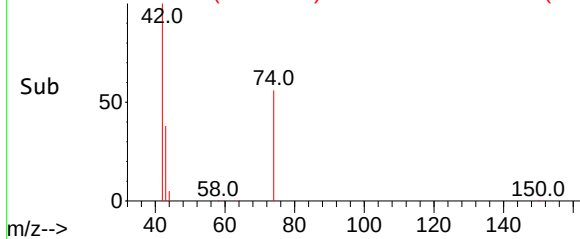
Abundance Scan 79 (3.451 min): BN037112.D\data.ms



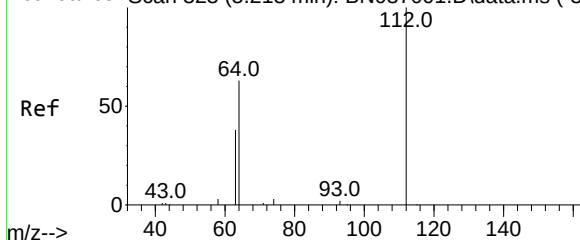
Abundance



Abundance Scan 79 (3.451 min): BN037112.D\data.ms (-59)



Abundance Scan 323 (5.213 min): BN037001.D\data.ms (-31)



#4

2-Fluorophenol

Concen: 0.358 ng

RT: 5.206 min Scan# 322

Delta R.T. -0.007 min

Lab File: BN037112.D

Acq: 28 May 2025 17:11

Tgt Ion: 112 Resp: 1896

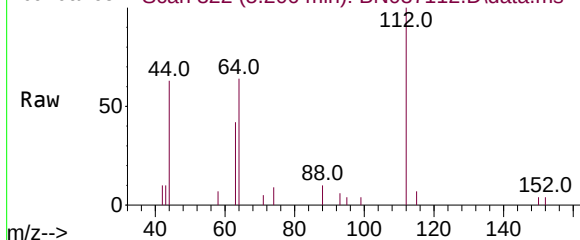
Ion Ratio Lower Upper

112 100

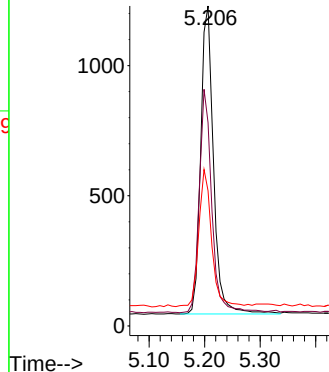
64 71.1 55.7 83.5

63 44.6 34.6 51.8

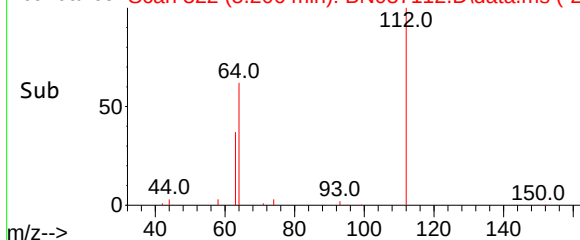
Abundance Scan 322 (5.206 min): BN037112.D\data.ms

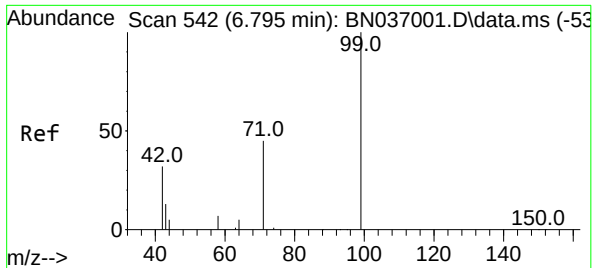


Abundance



Abundance Scan 322 (5.206 min): BN037112.D\data.ms (-29)

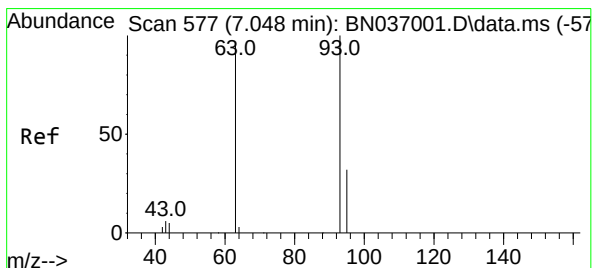
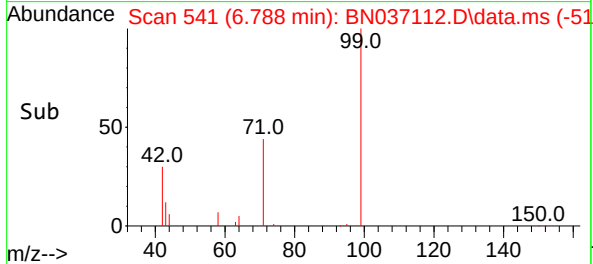
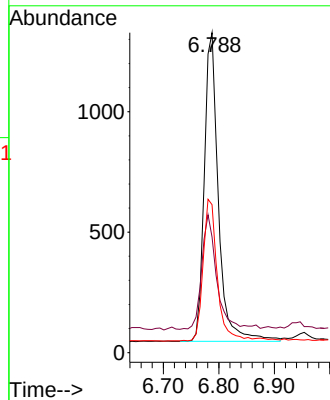
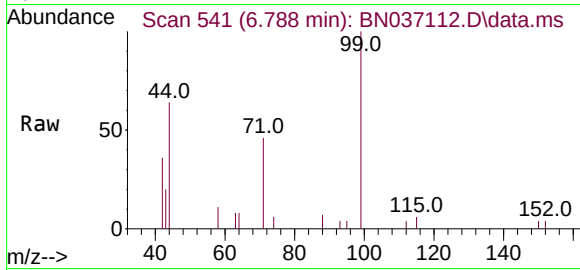




#5  
Phenol-d6  
Concen: 0.342 ng  
RT: 6.788 min Scan# 541  
Delta R.T. -0.007 min  
Lab File: BN037112.D  
Acq: 28 May 2025 17:11

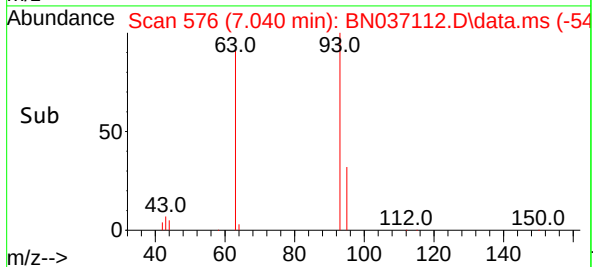
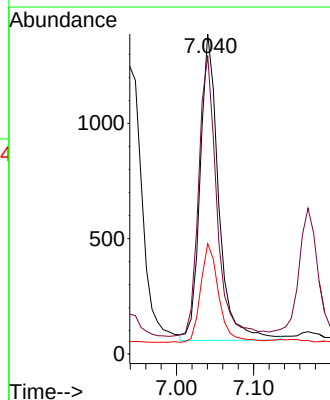
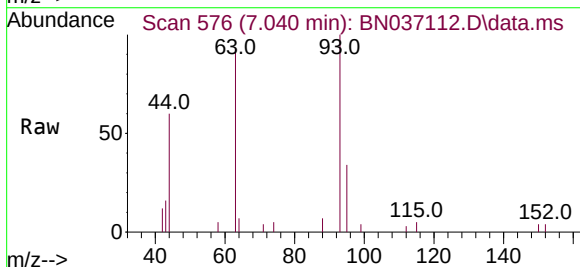
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

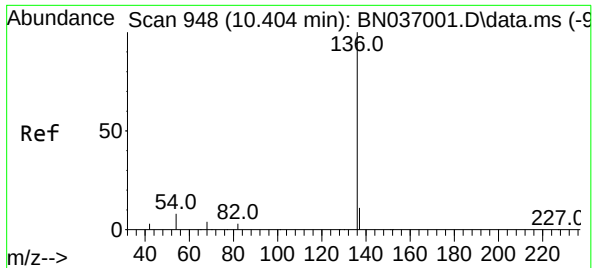
Tgt Ion: 99 Resp: 2270  
Ion Ratio Lower Upper  
99 100  
42 39.6 29.3 43.9  
71 47.3 35.7 53.5



#6  
bis(2-Chloroethyl)ether  
Concen: 0.365 ng  
RT: 7.040 min Scan# 576  
Delta R.T. -0.007 min  
Lab File: BN037112.D  
Acq: 28 May 2025 17:11

Tgt Ion: 93 Resp: 2224  
Ion Ratio Lower Upper  
93 100  
63 89.8 70.1 105.1  
95 31.4 26.2 39.2

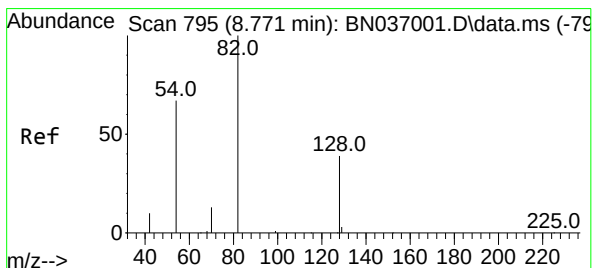
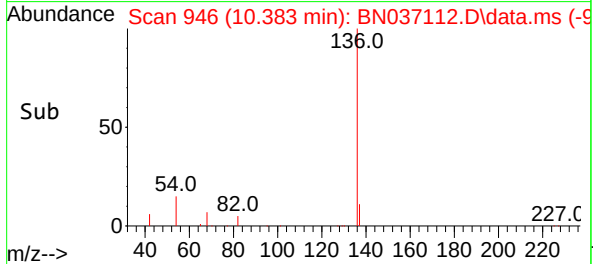
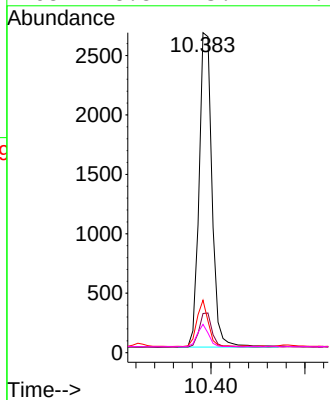
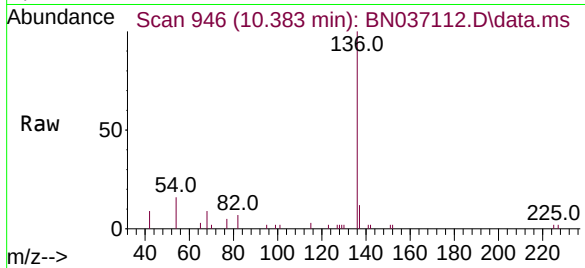




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.383 min Scan# 948  
Delta R.T. -0.021 min  
Lab File: BN037112.D  
Acq: 28 May 2025 17:11

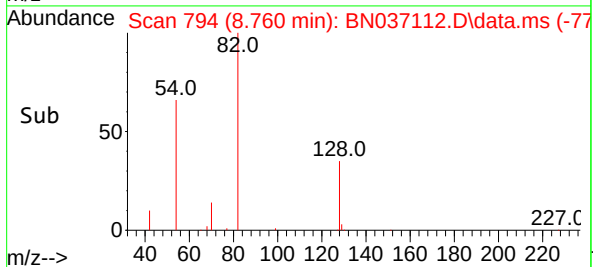
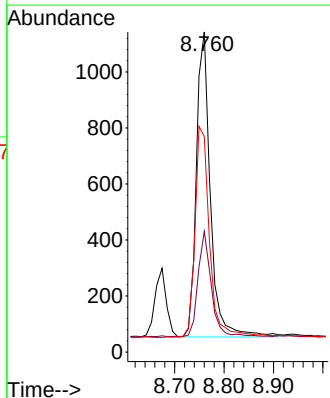
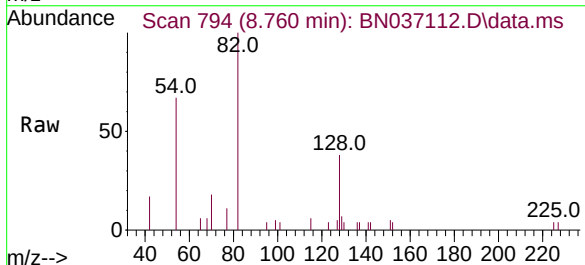
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 5050  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 12.3  | 10.4  | 15.6  |
| 54       | 16.4  | 8.5   | 12.7# |
| 68       | 8.8   | 5.1   | 7.7#  |

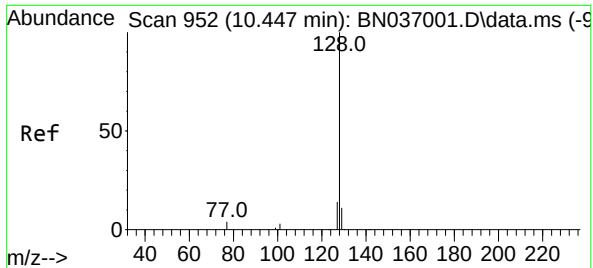


#8  
Nitrobenzene-d5  
Concen: 0.391 ng  
RT: 8.760 min Scan# 794  
Delta R.T. -0.011 min  
Lab File: BN037112.D  
Acq: 28 May 2025 17:11

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 2149  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 37.7  | 34.0  | 51.0  |
| 54       | 67.4  | 55.0  | 82.4  |



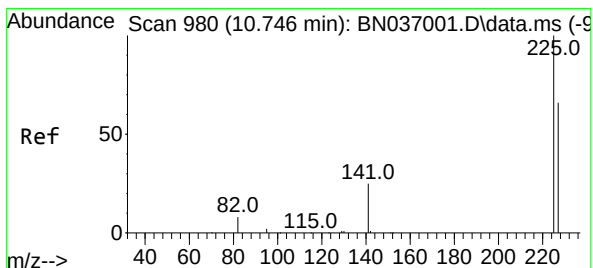
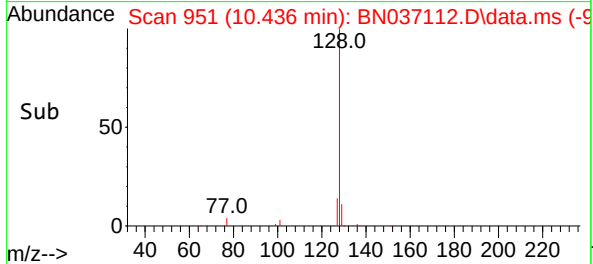
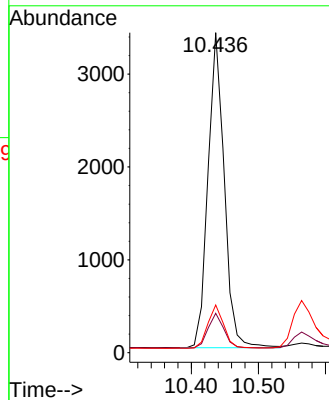
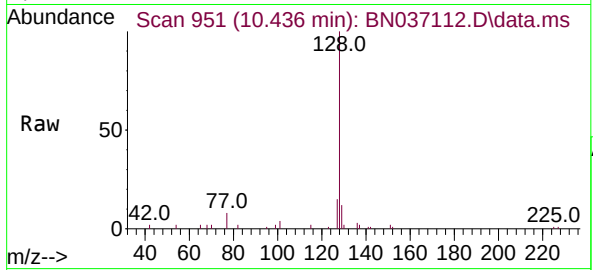




#9  
Naphthalene  
Concen: 0.383 ng  
RT: 10.436 min Scan# 91  
Delta R.T. -0.011 min  
Lab File: BN037112.D  
Acq: 28 May 2025 17:11

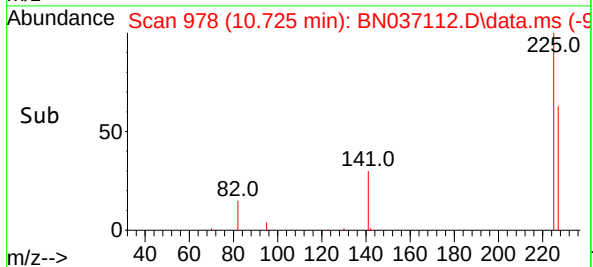
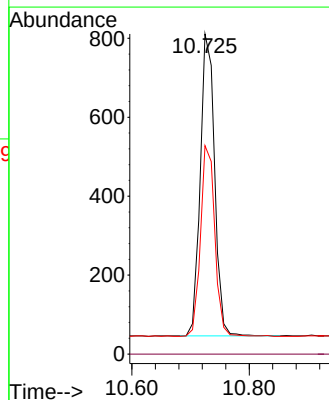
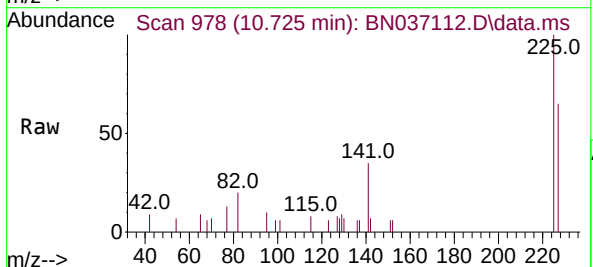
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

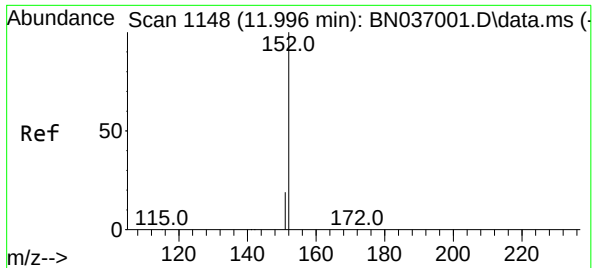
Tgt Ion:128 Resp: 5722  
Ion Ratio Lower Upper  
128 100  
129 12.3 9.7 14.5  
127 14.9 12.4 18.6



#10  
Hexachlorobutadiene  
Concen: 0.416 ng  
RT: 10.725 min Scan# 978  
Delta R.T. -0.021 min  
Lab File: BN037112.D  
Acq: 28 May 2025 17:11

Tgt Ion:225 Resp: 1302  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 62.8 50.9 76.3

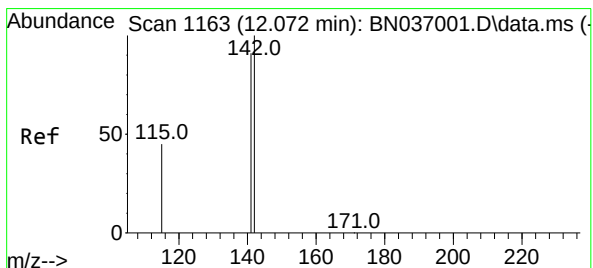
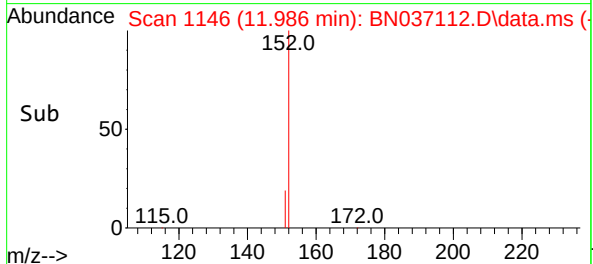
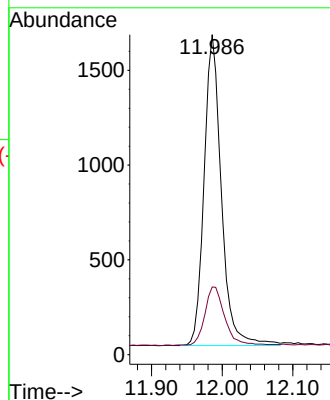
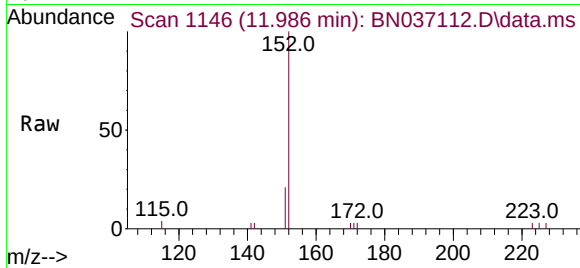




#11  
2-Methylnaphthalene-d10  
Concen: 0.392 ng  
RT: 11.986 min Scan# 1146  
Delta R.T. -0.010 min  
Lab File: BN037112.D  
Acq: 28 May 2025 17:11

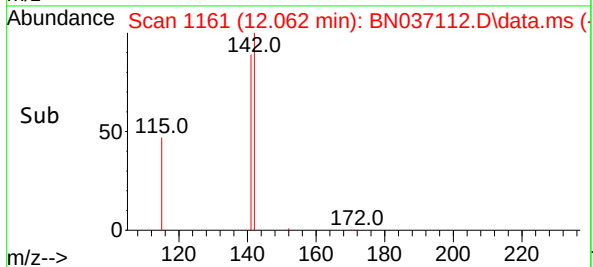
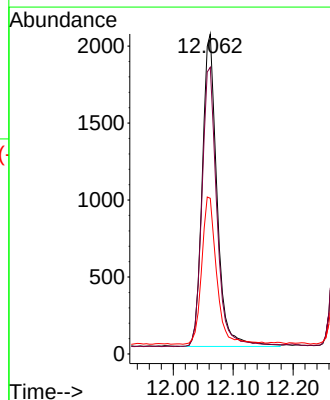
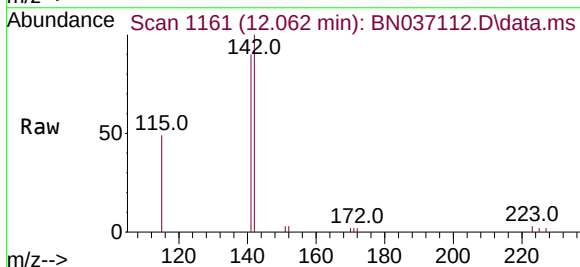
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

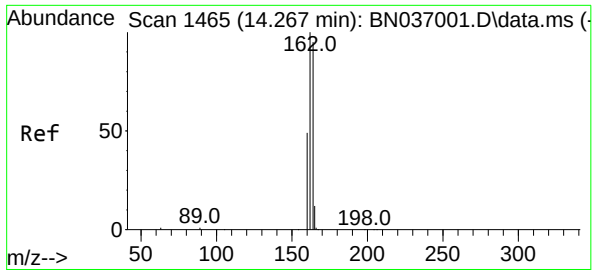
Tgt Ion:152 Resp: 2789  
Ion Ratio Lower Upper  
152 100  
151 21.5 17.5 26.3



#12  
2-Methylnaphthalene  
Concen: 0.361 ng  
RT: 12.062 min Scan# 1161  
Delta R.T. -0.010 min  
Lab File: BN037112.D  
Acq: 28 May 2025 17:11

Tgt Ion:142 Resp: 3464  
Ion Ratio Lower Upper  
142 100  
141 89.6 73.3 109.9  
115 48.7 38.4 57.6

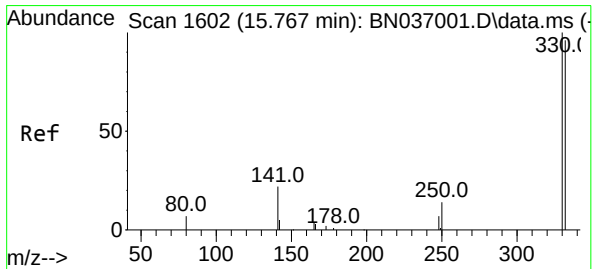
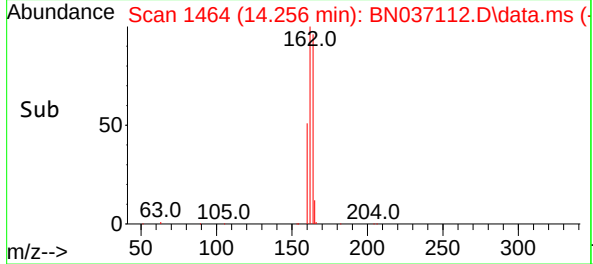
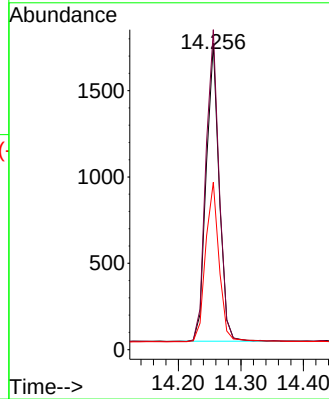
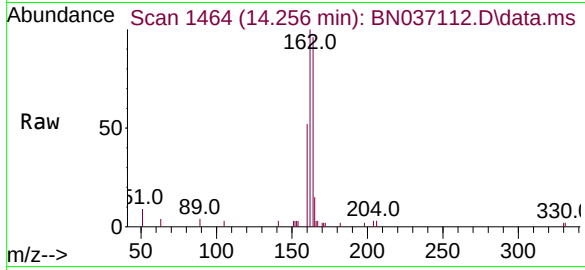




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.256 min Scan# 1464  
Delta R.T. -0.011 min  
Lab File: BN037112.D  
Acq: 28 May 2025 17:11

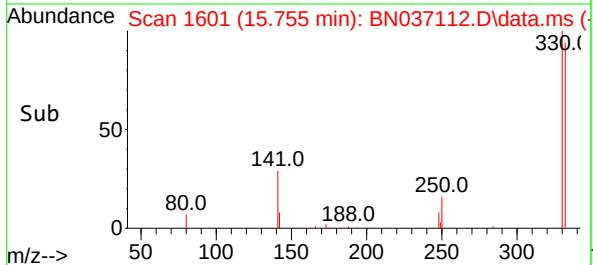
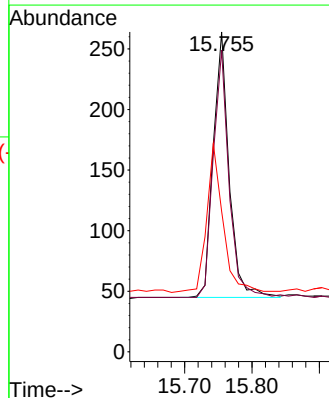
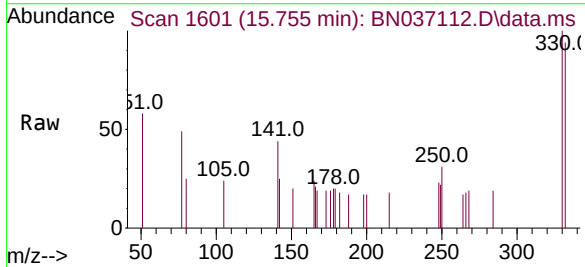
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

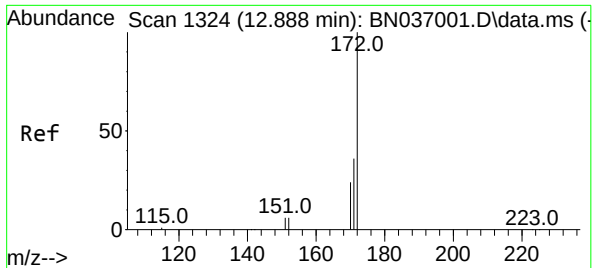
Tgt Ion:164 Resp: 2480  
Ion Ratio Lower Upper  
164 100  
162 104.5 84.2 126.4  
160 54.7 42.6 63.8



#14  
2,4,6-Tribromophenol  
Concen: 0.330 ng  
RT: 15.755 min Scan# 1601  
Delta R.T. -0.012 min  
Lab File: BN037112.D  
Acq: 28 May 2025 17:11

Tgt Ion:330 Resp: 359  
Ion Ratio Lower Upper  
330 100  
332 93.6 73.8 110.8  
141 57.7 43.9 65.9

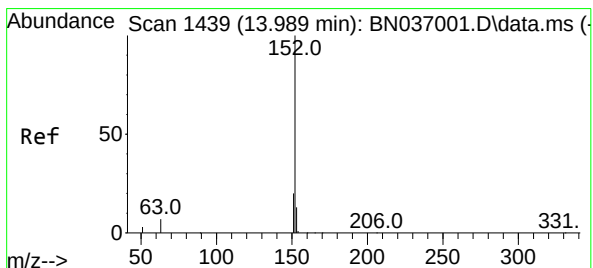
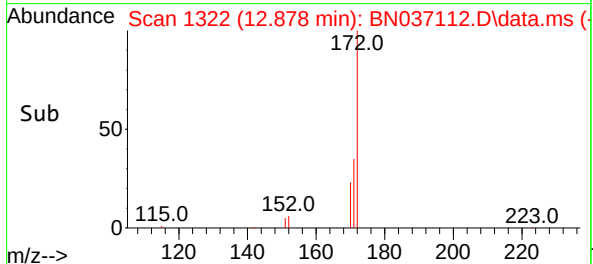
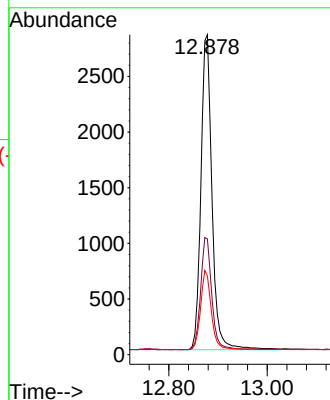
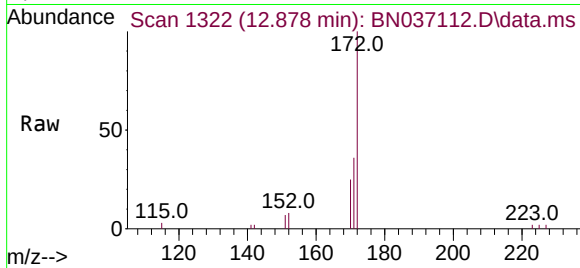




#15  
2-Fluorobiphenyl  
Concen: 0.412 ng  
RT: 12.878 min Scan# 11  
Delta R.T. -0.010 min  
Lab File: BN037112.D  
Acq: 28 May 2025 17:11

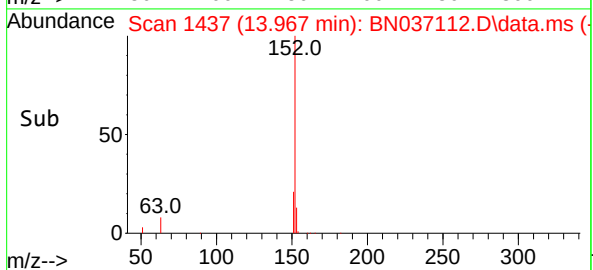
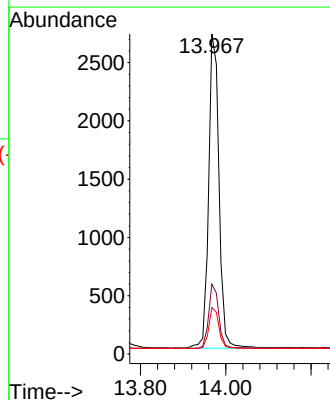
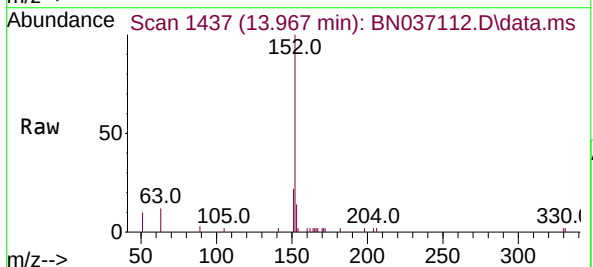
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

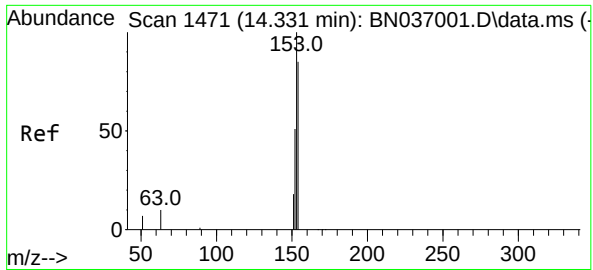
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.2  | 29.2  | 43.8  |
| 170     | 24.6  | 20.5  | 30.7  |



#16  
Acenaphthylene  
Concen: 0.377 ng  
RT: 13.967 min Scan# 1437  
Delta R.T. -0.021 min  
Lab File: BN037112.D  
Acq: 28 May 2025 17:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 19.9  | 16.1  | 24.1  |
| 153     | 12.9  | 10.5  | 15.7  |

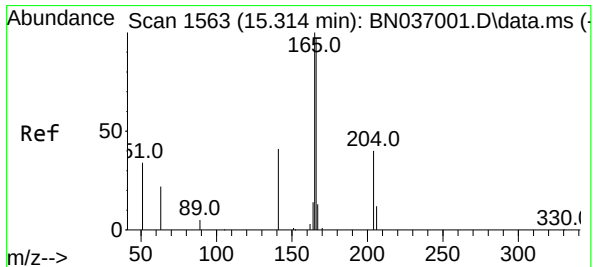
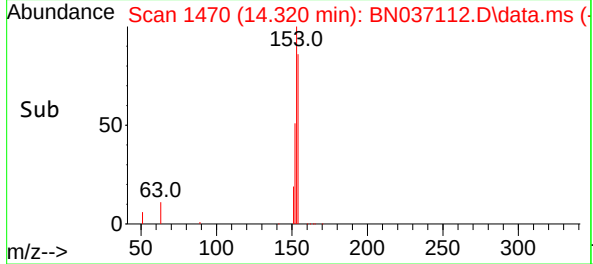
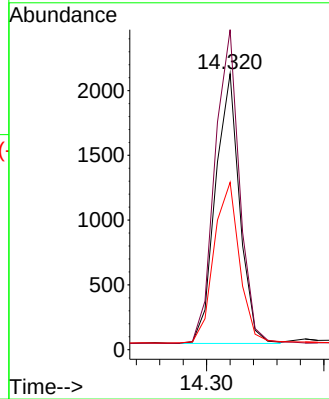
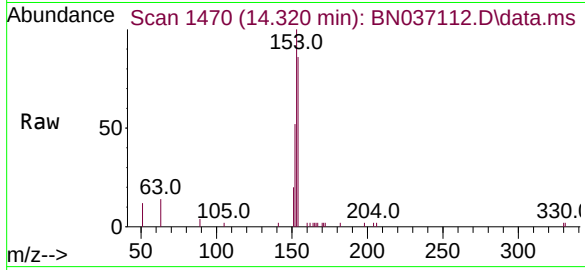




#17  
Acenaphthene  
Concen: 0.378 ng  
RT: 14.320 min Scan# 1471  
Delta R.T. -0.011 min  
Lab File: BN037112.D  
Acq: 28 May 2025 17:11

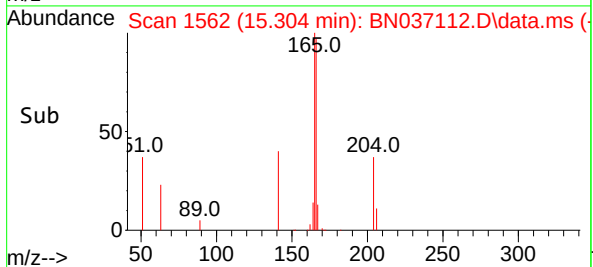
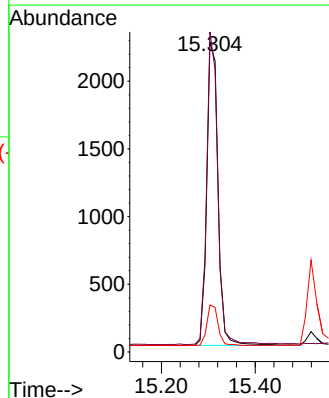
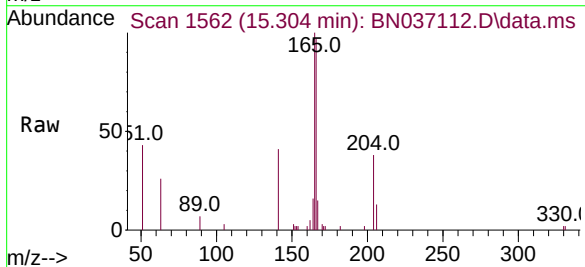
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

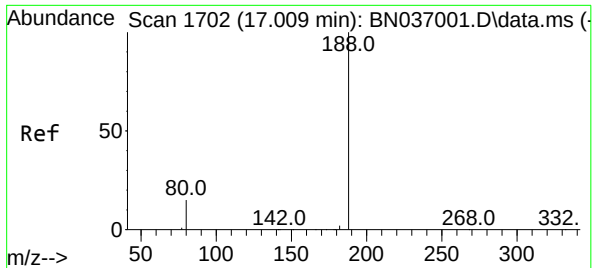
Tgt Ion:154 Resp: 2978  
Ion Ratio Lower Upper  
154 100  
153 119.3 94.2 141.4  
152 63.7 49.4 74.0



#18  
Fluorene  
Concen: 0.361 ng  
RT: 15.304 min Scan# 1562  
Delta R.T. -0.011 min  
Lab File: BN037112.D  
Acq: 28 May 2025 17:11

Tgt Ion:166 Resp: 3731  
Ion Ratio Lower Upper  
166 100  
165 100.5 80.6 120.8  
167 13.5 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.009 min Scan# 11

Delta R.T. 0.000 min

Lab File: BN037112.D

Acq: 28 May 2025 17:11

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

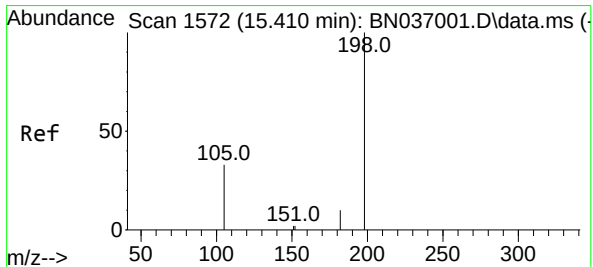
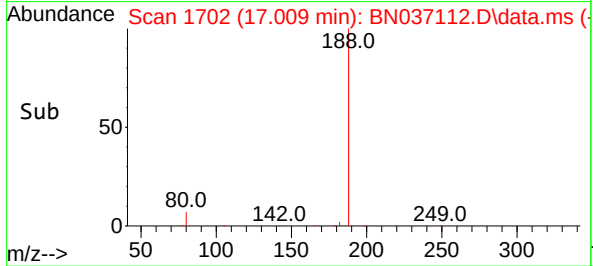
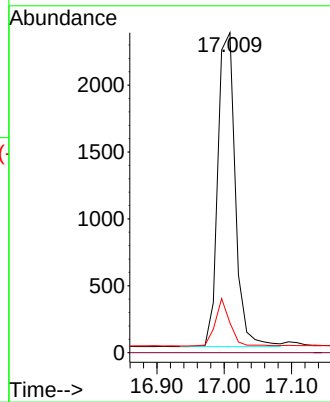
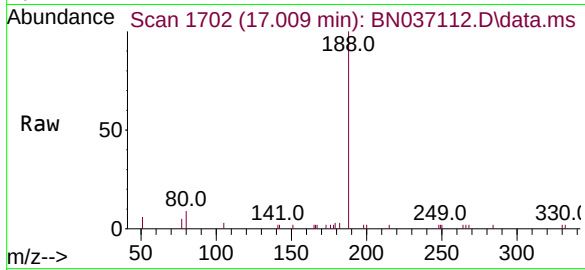
Tgt Ion:188 Resp: 4231

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.3 13.4 20.0#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.398 ng

RT: 15.400 min Scan# 1571

Delta R.T. -0.010 min

Lab File: BN037112.D

Acq: 28 May 2025 17:11

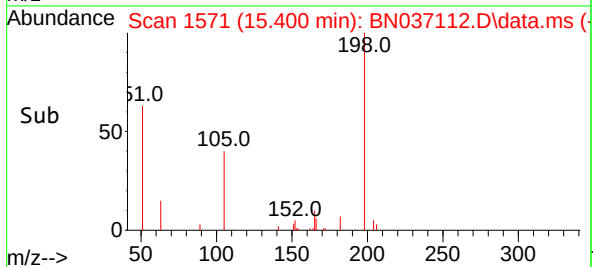
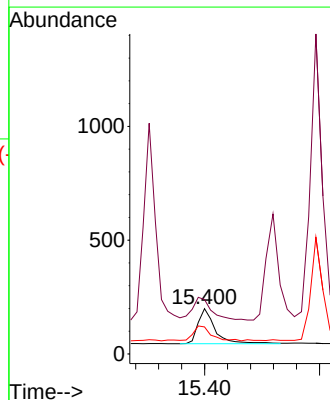
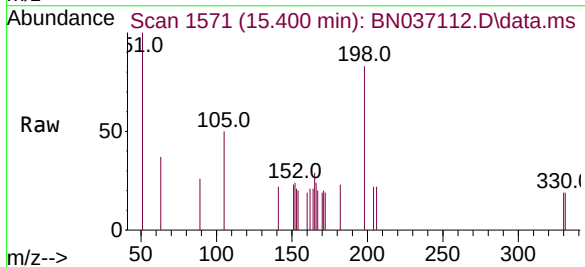
Tgt Ion:198 Resp: 325

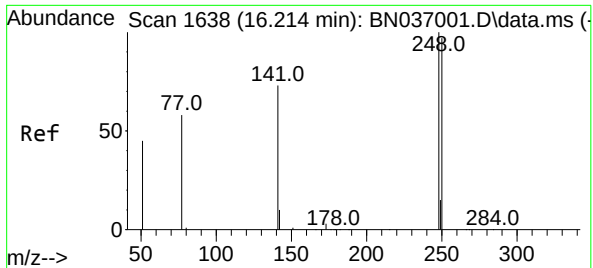
Ion Ratio Lower Upper

198 100

51 120.1 87.8 131.6

105 59.8 44.2 66.4

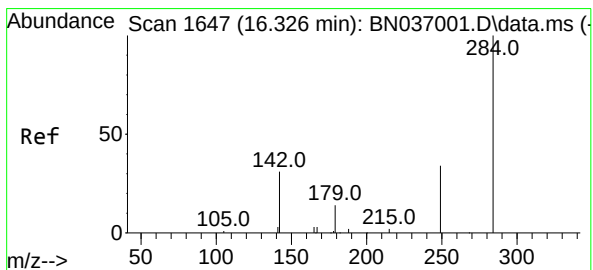
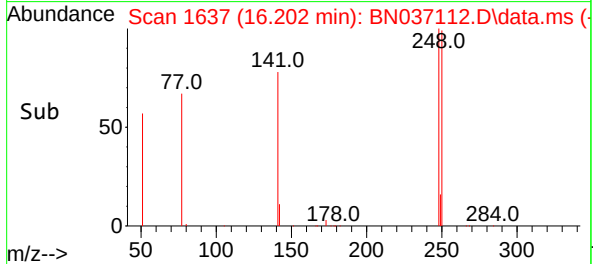
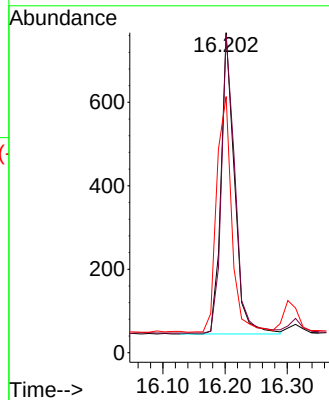
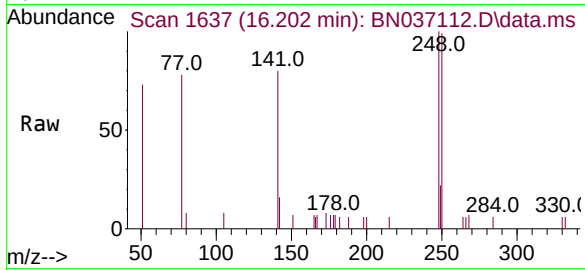




#21  
4-Bromophenyl-phenylether  
Concen: 0.406 ng  
RT: 16.202 min Scan# 1637  
Delta R.T. -0.012 min  
Lab File: BN037112.D  
Acq: 28 May 2025 17:11

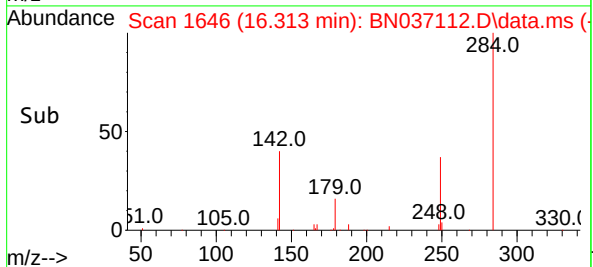
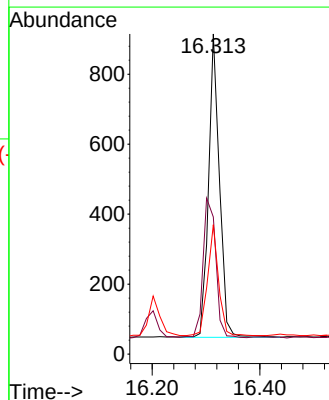
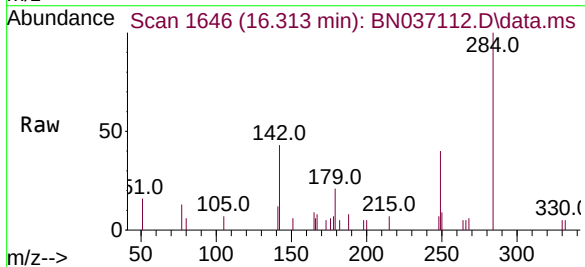
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

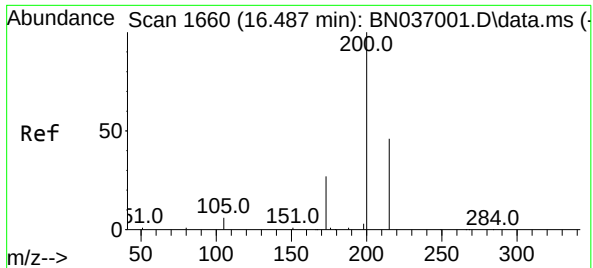
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 248     | 100   |       |       |
| 250     | 99.3  | 78.1  | 117.1 |
| 141     | 80.1  | 59.7  | 89.5  |



#22  
Hexachlorobenzene  
Concen: 0.425 ng  
RT: 16.313 min Scan# 1646  
Delta R.T. -0.012 min  
Lab File: BN037112.D  
Acq: 28 May 2025 17:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 284     | 100   |       |       |
| 142     | 53.8  | 41.2  | 61.8  |
| 249     | 36.6  | 28.7  | 43.1  |

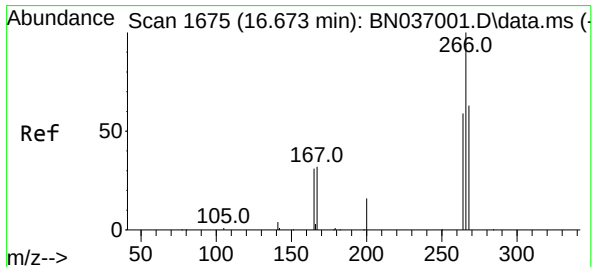
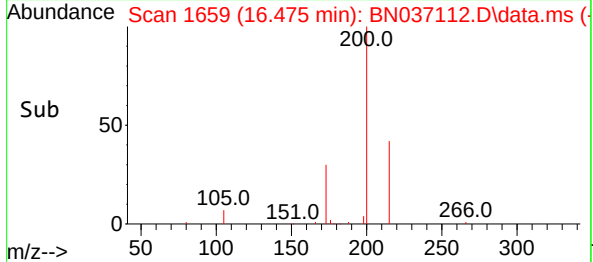
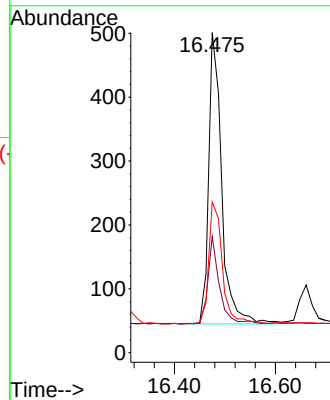
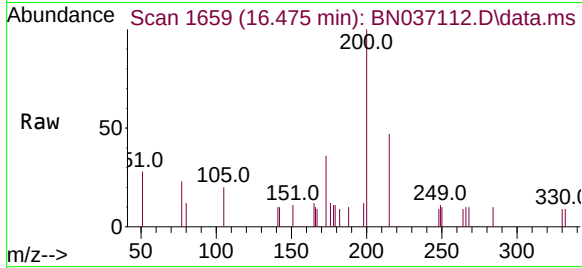




#23  
Atrazine  
Concen: 0.352 ng  
RT: 16.475 min Scan# 1659  
Delta R.T. -0.012 min  
Lab File: BN037112.D  
Acq: 28 May 2025 17:11

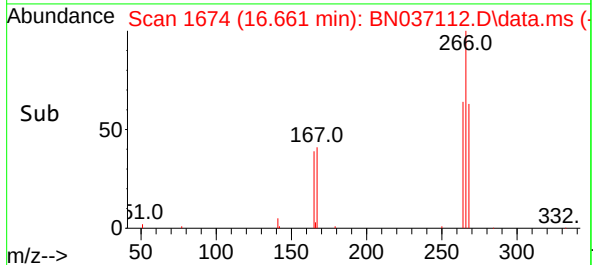
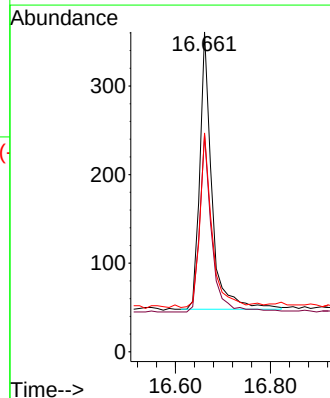
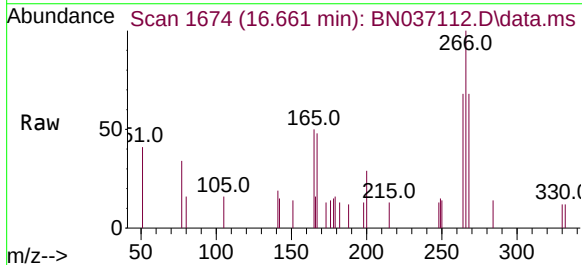
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

| Tgt Ion   | 200   | Resp: | 821  |
|-----------|-------|-------|------|
| Ion Ratio | Lower | Upper |      |
| 200       | 100   |       |      |
| 173       | 36.3  | 25.2  | 37.8 |
| 215       | 47.1  | 39.3  | 58.9 |

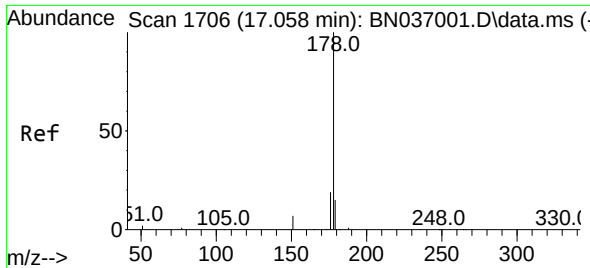


#24  
Pentachlorophenol  
Concen: 0.350 ng  
RT: 16.661 min Scan# 1674  
Delta R.T. -0.012 min  
Lab File: BN037112.D  
Acq: 28 May 2025 17:11

| Tgt Ion   | 266   | Resp: | 552  |
|-----------|-------|-------|------|
| Ion Ratio | Lower | Upper |      |
| 266       | 100   |       |      |
| 264       | 63.8  | 47.9  | 71.9 |
| 268       | 63.6  | 50.0  | 75.0 |



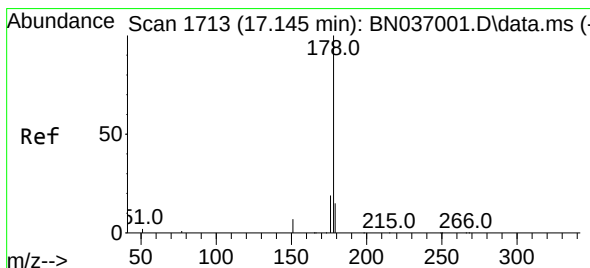
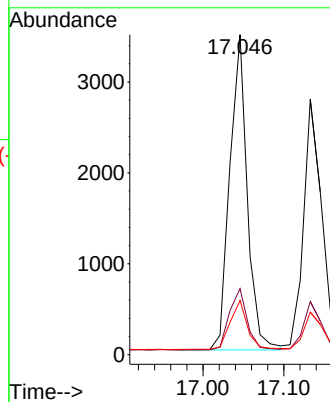
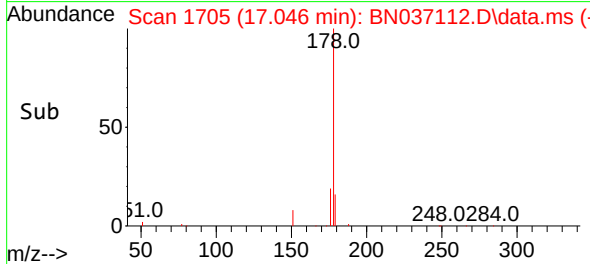
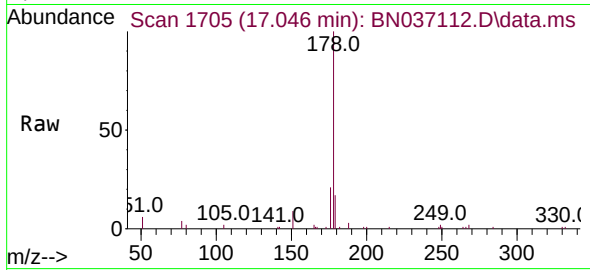




#25  
Phenanthrene  
Concen: 0.377 ng  
RT: 17.046 min Scan# 1712  
Delta R.T. -0.012 min  
Lab File: BN037112.D  
Acq: 28 May 2025 17:11

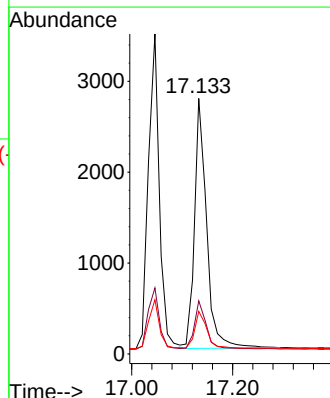
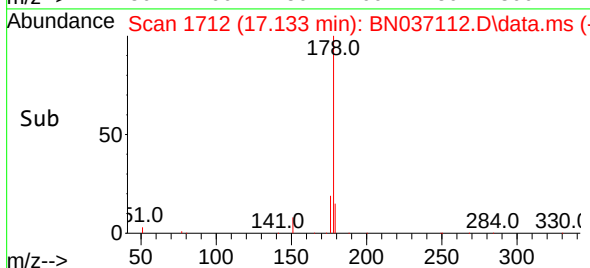
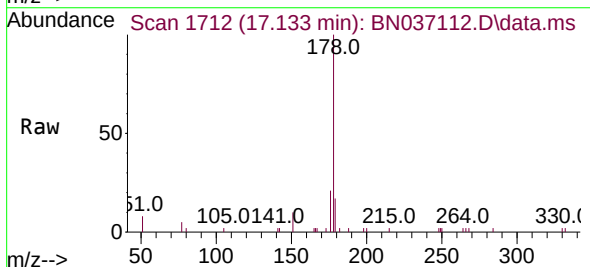
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

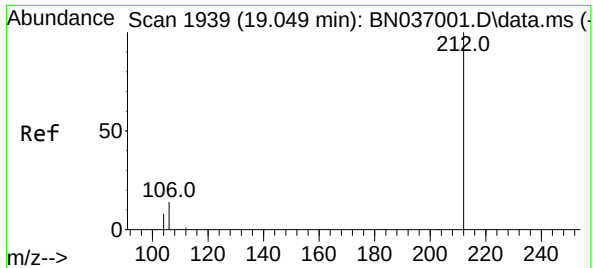
Tgt Ion:178 Resp: 5218  
Ion Ratio Lower Upper  
178 100  
176 19.9 15.7 23.5  
179 15.7 12.2 18.2



#26  
Anthracene  
Concen: 0.365 ng  
RT: 17.133 min Scan# 1712  
Delta R.T. -0.012 min  
Lab File: BN037112.D  
Acq: 28 May 2025 17:11

Tgt Ion:178 Resp: 4596  
Ion Ratio Lower Upper  
178 100  
176 18.5 15.0 22.6  
179 15.2 12.3 18.5

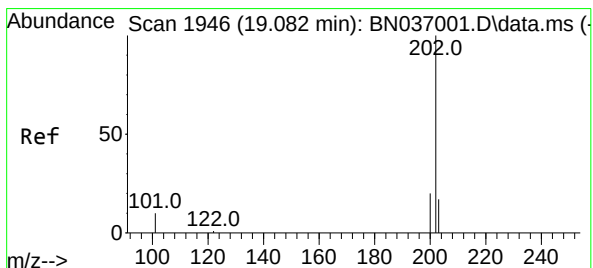
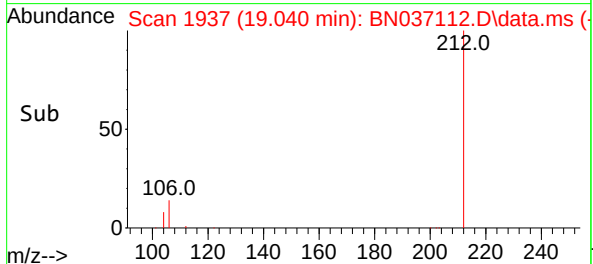
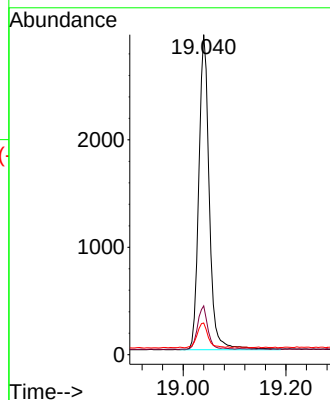
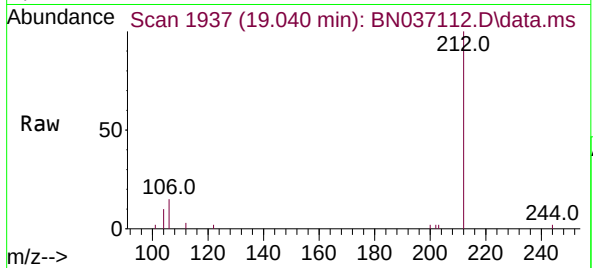




#27  
Fluoranthene-d10  
Concen: 0.360 ng  
RT: 19.040 min Scan# 1937  
Delta R.T. -0.009 min  
Lab File: BN037112.D  
Acq: 28 May 2025 17:11

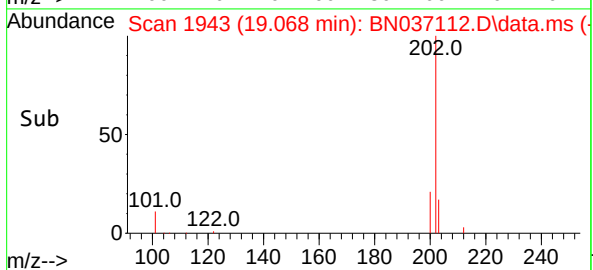
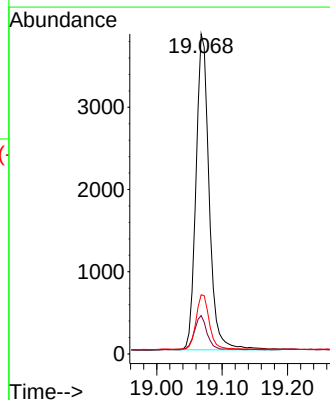
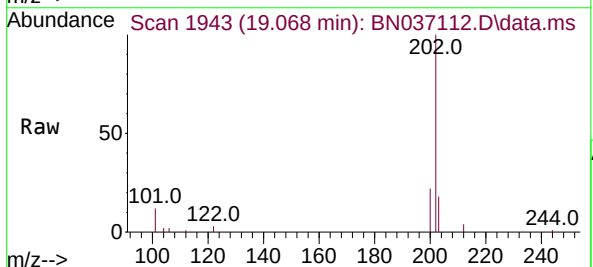
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

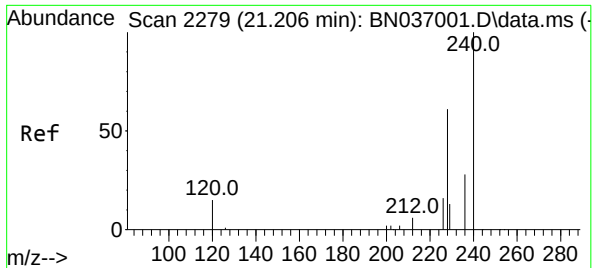
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 212     | 100   |       |       |
| 106     | 13.4  | 11.3  | 16.9  |
| 104     | 8.1   | 6.7   | 10.1  |



#28  
Fluoranthene  
Concen: 0.326 ng  
RT: 19.068 min Scan# 1943  
Delta R.T. -0.014 min  
Lab File: BN037112.D  
Acq: 28 May 2025 17:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 11.0  | 8.9   | 13.3  |
| 203     | 17.1  | 13.8  | 20.8  |

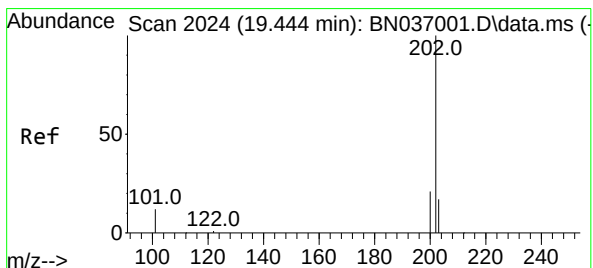
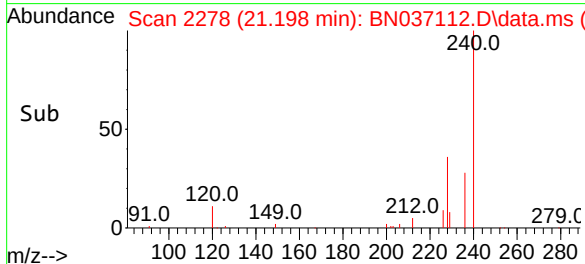
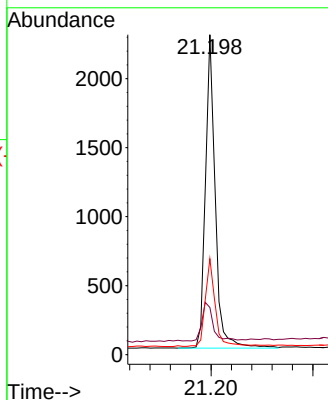
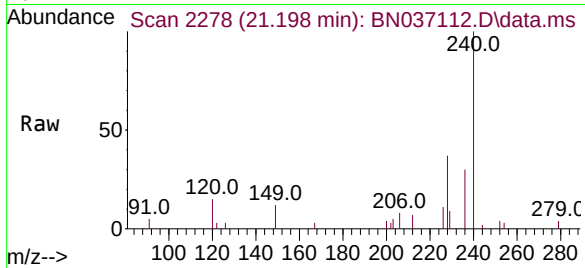




#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.198 min Scan# 21  
Delta R.T. -0.009 min  
Lab File: BN037112.D  
Acq: 28 May 2025 17:11

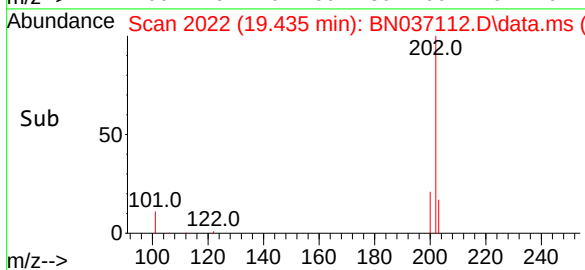
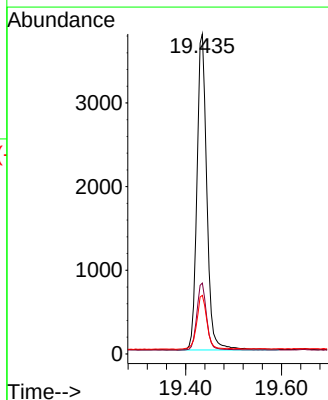
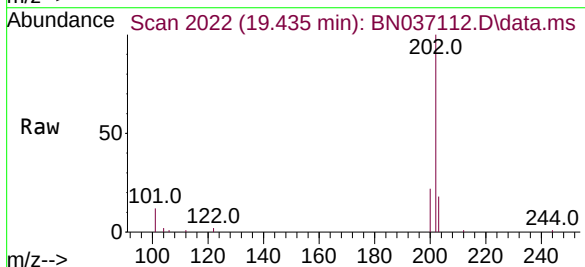
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

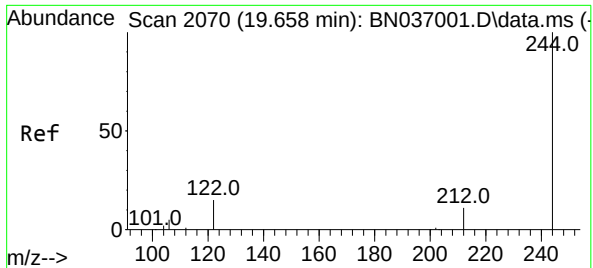
Tgt Ion:240 Resp: 3037  
Ion Ratio Lower Upper  
240 100  
120 14.7 15.1 22.7#  
236 30.0 24.0 36.0



#30  
Pyrene  
Concen: 0.417 ng  
RT: 19.435 min Scan# 2022  
Delta R.T. -0.009 min  
Lab File: BN037112.D  
Acq: 28 May 2025 17:11

Tgt Ion:202 Resp: 5421  
Ion Ratio Lower Upper  
202 100  
200 21.2 17.1 25.7  
203 17.4 14.2 21.4

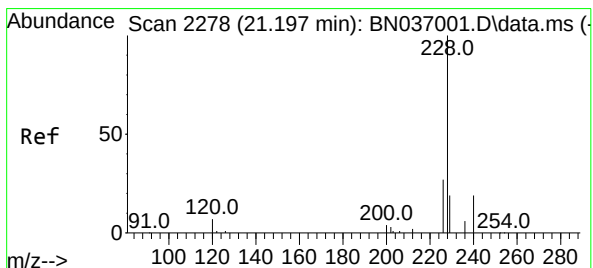
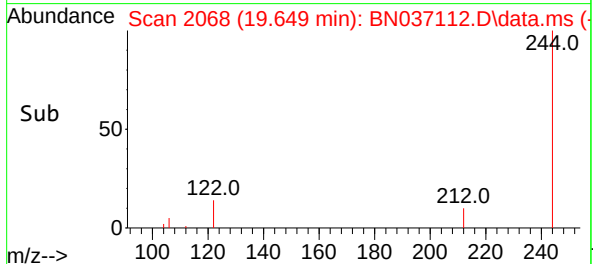
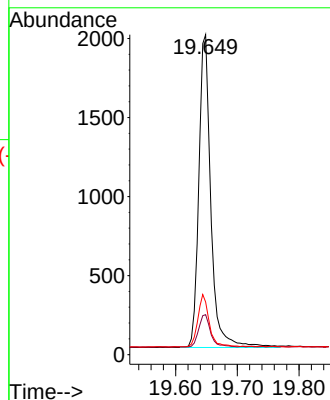
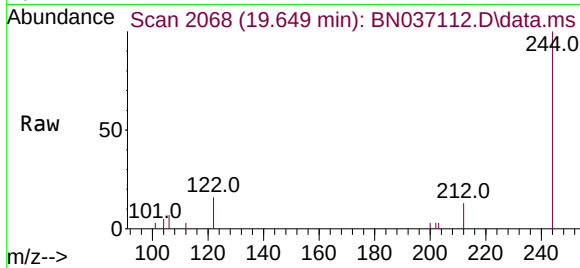




#31  
Terphenyl-d14  
Concen: 0.415 ng  
RT: 19.649 min Scan# 2070  
Delta R.T. -0.009 min  
Lab File: BN037112.D  
Acq: 28 May 2025 17:11

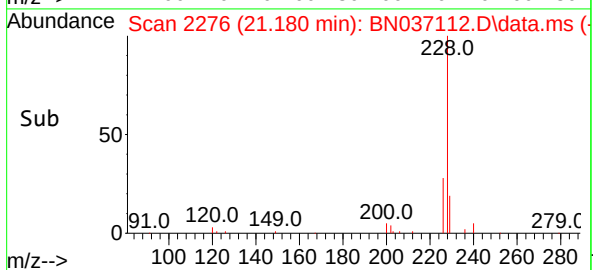
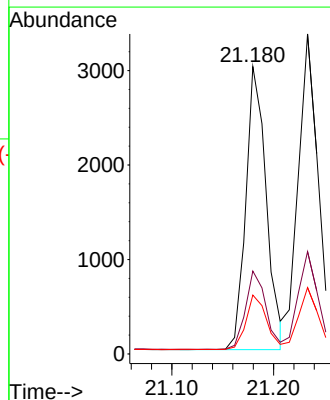
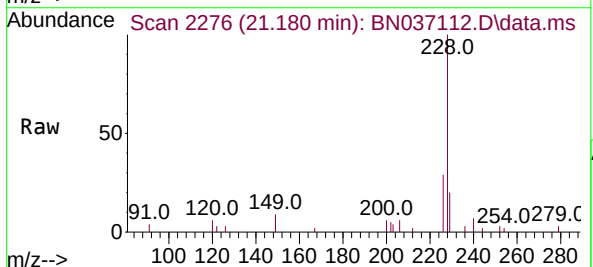
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

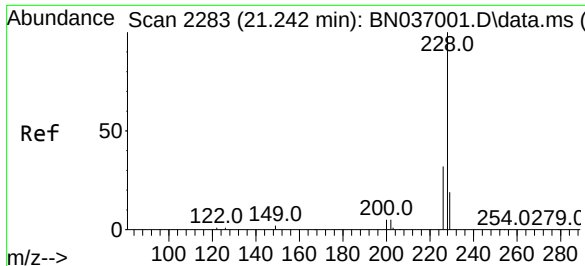
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 12.5  | 9.7   | 14.5  |
| 122     | 16.5  | 13.4  | 20.0  |



#32  
Benzo(a)anthracene  
Concen: 0.365 ng  
RT: 21.180 min Scan# 2276  
Delta R.T. -0.018 min  
Lab File: BN037112.D  
Acq: 28 May 2025 17:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 28.8  | 22.2  | 33.4  |
| 229     | 20.5  | 16.0  | 24.0  |

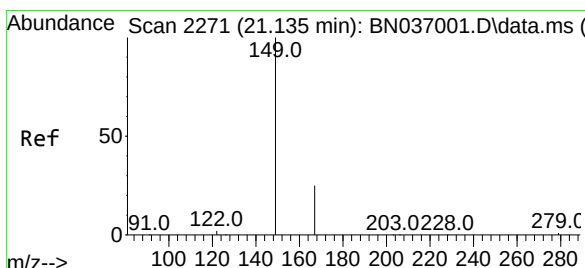
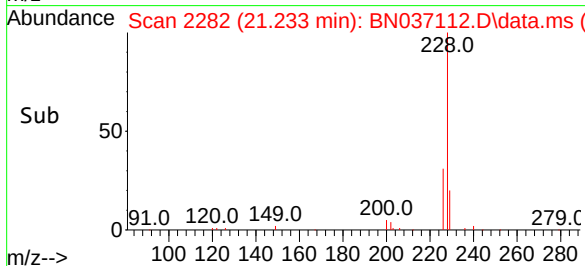
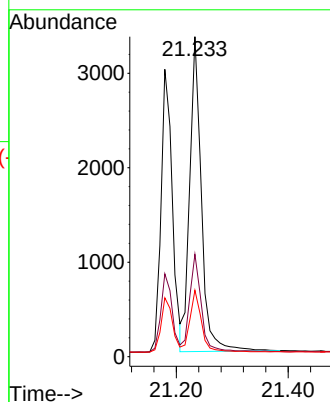
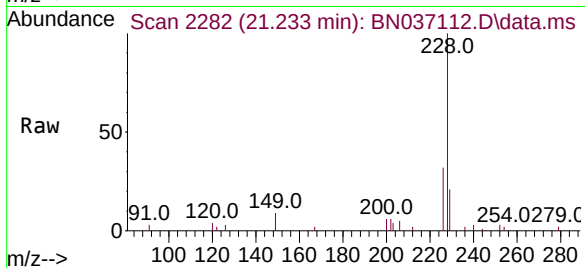




#33  
Chrysene  
Concen: 0.400 ng  
RT: 21.233 min Scan# 21  
Delta R.T. -0.009 min  
Lab File: BN037112.D  
Acq: 28 May 2025 17:11

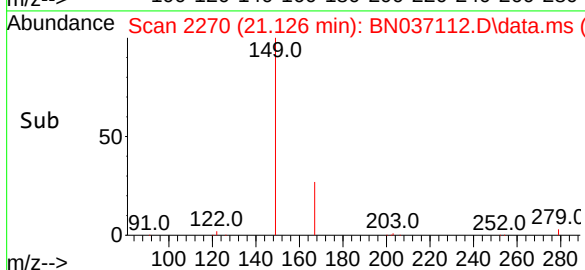
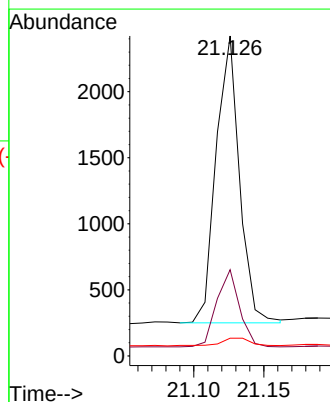
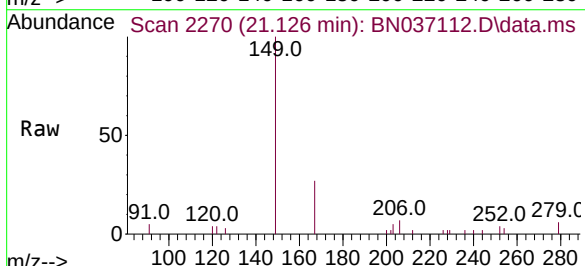
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

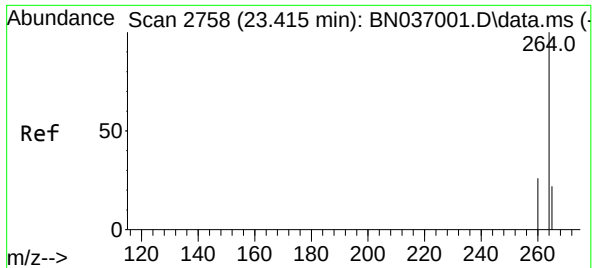
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 32.0  | 26.3  | 39.5  |
| 229     | 20.7  | 16.2  | 24.2  |



#34  
Bis(2-ethylhexyl)phthalate  
Concen: 0.357 ng  
RT: 21.126 min Scan# 2270  
Delta R.T. -0.009 min  
Lab File: BN037112.D  
Acq: 28 May 2025 17:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 26.2  | 20.6  | 30.8  |
| 279     | 3.5   | 2.6   | 3.8   |





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.395 min Scan# 21

Delta R.T. -0.020 min

Lab File: BN037112.D

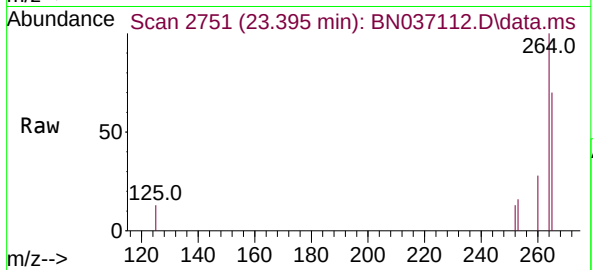
Acq: 28 May 2025 17:11

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4



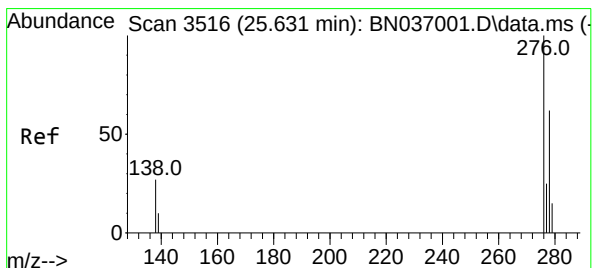
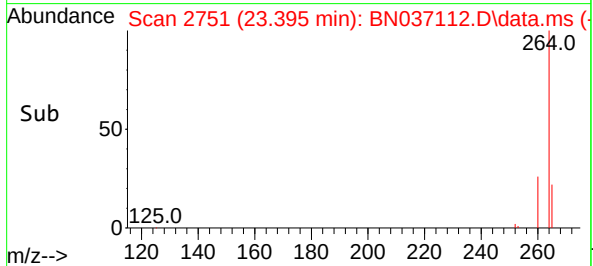
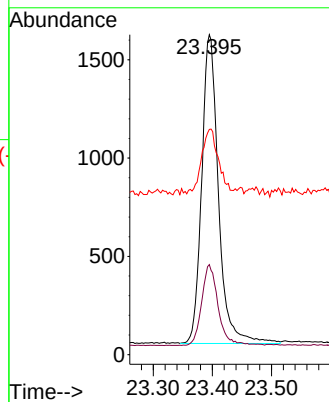
Tgt Ion:264 Resp: 3091

Ion Ratio Lower Upper

264 100

260 28.1 21.9 32.9

265 70.4 51.6 77.4



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.403 ng

RT: 25.593 min Scan# 3503

Delta R.T. -0.038 min

Lab File: BN037112.D

Acq: 28 May 2025 17:11

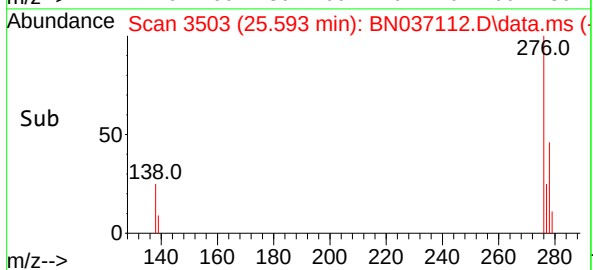
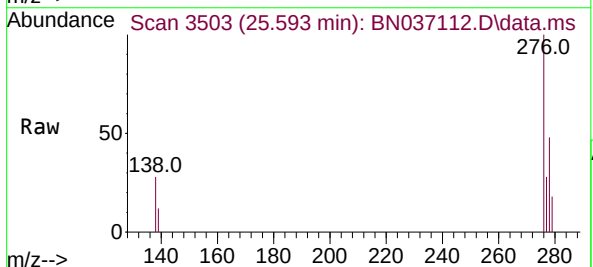
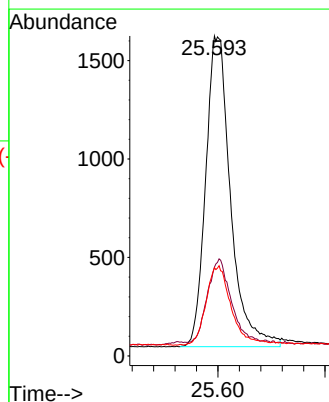
Tgt Ion:276 Resp: 5085

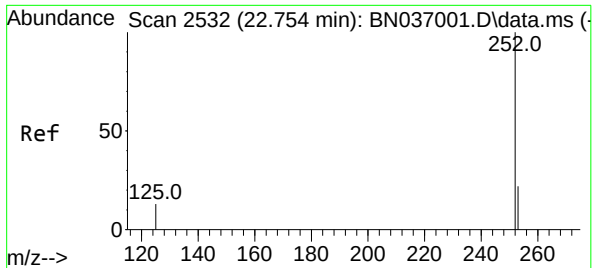
Ion Ratio Lower Upper

276 100

138 25.9 22.7 34.1

277 25.3 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 0.358 ng

RT: 22.740 min Scan# 2527

Delta R.T. -0.015 min

Lab File: BN037112.D

Acq: 28 May 2025 17:11

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

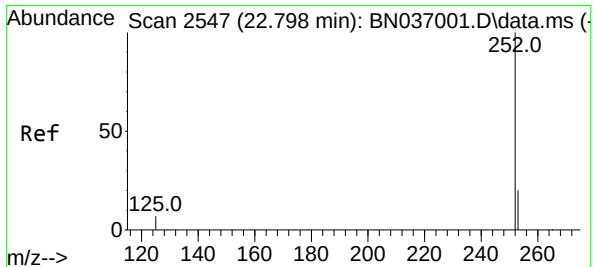
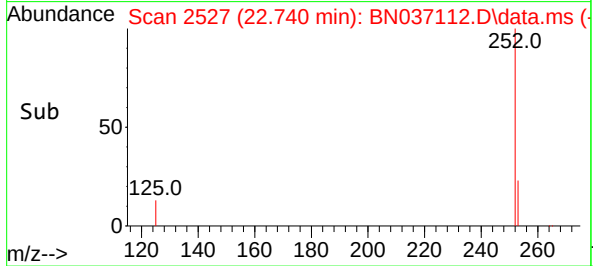
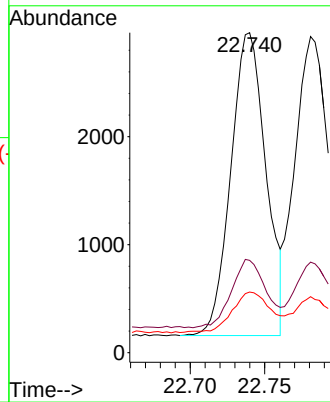
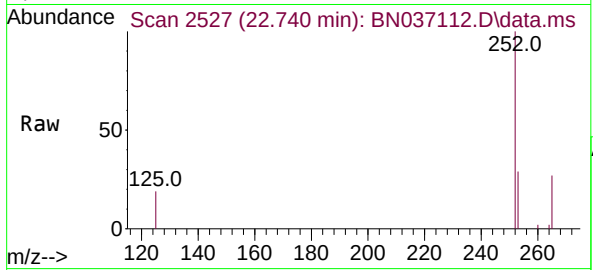
Tgt Ion:252 Resp: 4587

Ion Ratio Lower Upper

252 100

253 28.9 21.8 32.6

125 18.9 14.6 21.8



#38

Benzo(k)fluoranthene

Concen: 0.372 ng

RT: 22.781 min Scan# 2541

Delta R.T. -0.018 min

Lab File: BN037112.D

Acq: 28 May 2025 17:11

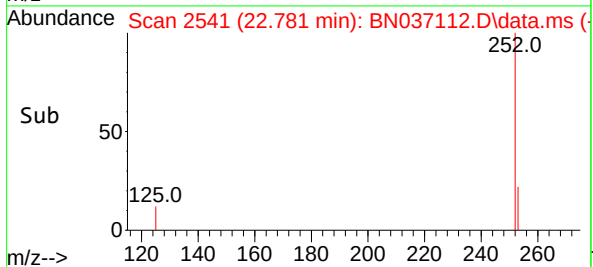
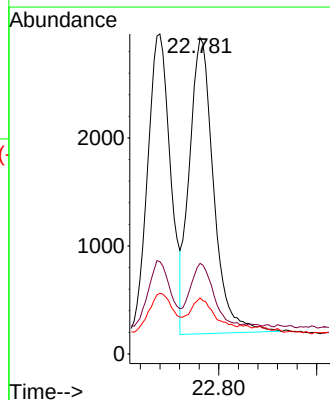
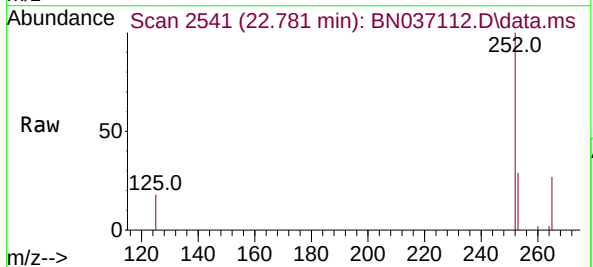
Tgt Ion:252 Resp: 4707

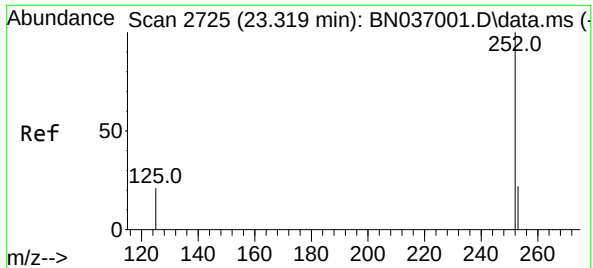
Ion Ratio Lower Upper

252 100

253 28.6 21.4 32.2

125 17.7 13.0 19.4





#39

Benzo(a)pyrene

Concen: 0.367 ng

RT: 23.301 min Scan# 21

Delta R.T. -0.018 min

Lab File: BN037112.D

Acq: 28 May 2025 17:11

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

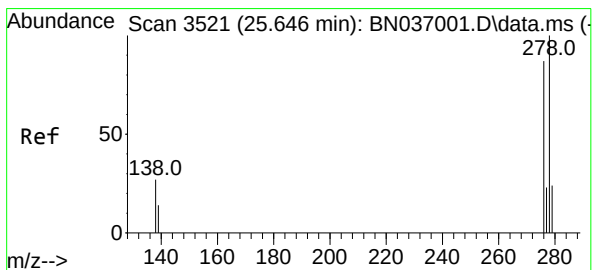
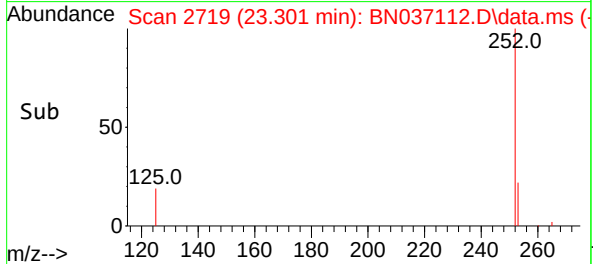
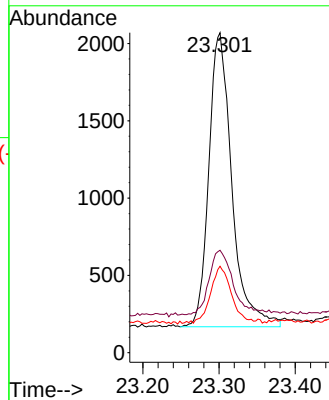
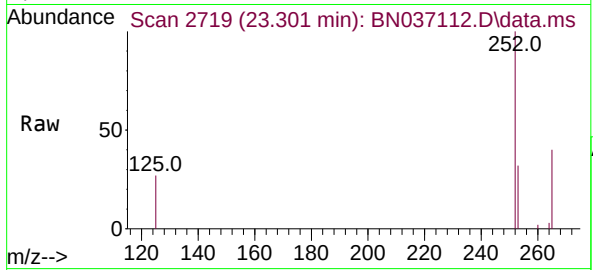
Tgt Ion:252 Resp: 3993

Ion Ratio Lower Upper

252 100

253 32.0 23.8 35.6

125 27.0 21.8 32.6



#40

Dibenzo(a,h)anthracene

Concen: 0.402 ng

RT: 25.614 min Scan# 3510

Delta R.T. -0.032 min

Lab File: BN037112.D

Acq: 28 May 2025 17:11

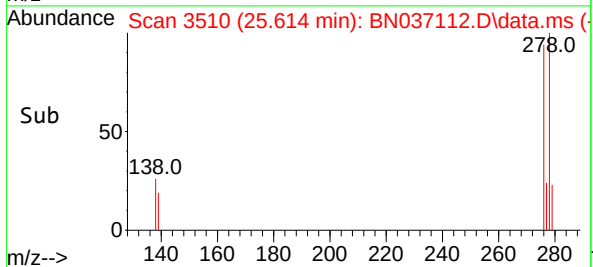
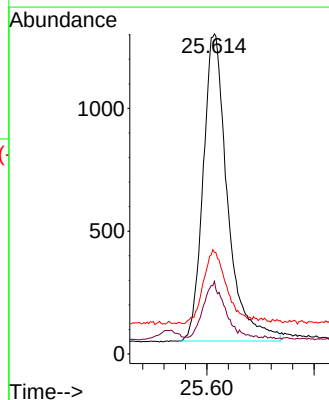
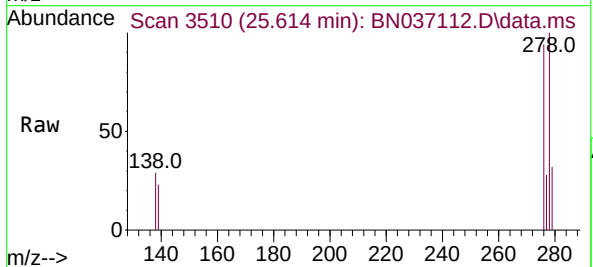
Tgt Ion:278 Resp: 3956

Ion Ratio Lower Upper

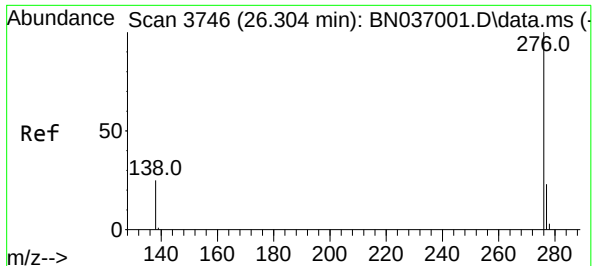
278 100

139 22.7 17.4 26.0

279 31.8 24.6 37.0







#41

Benzo(g,h,i)perylene

Concen: 0.425 ng

RT: 26.272 min Scan# 31

Delta R.T. -0.032 min

Lab File: BN037112.D

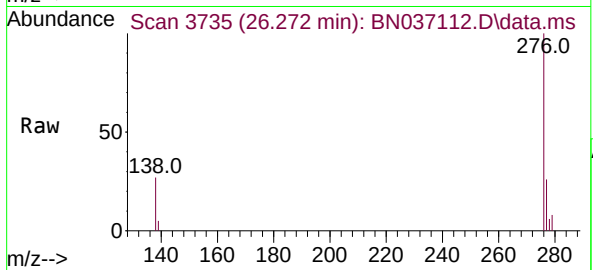
Acq: 28 May 2025 17:11

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4



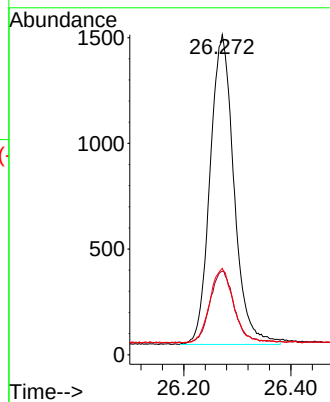
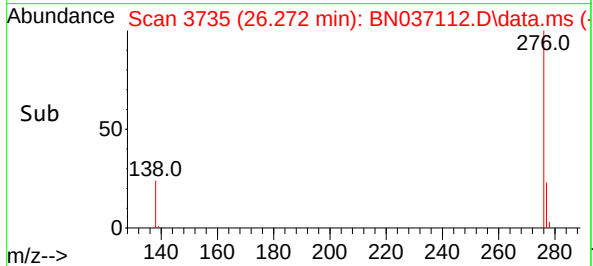
Tgt Ion:276 Resp: 4539

Ion Ratio Lower Upper

276 100

277 26.1 20.2 30.4

138 26.9 22.0 33.0



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN052825\  
 Data File : BN037112.D  
 Acq On : 28 May 2025 17:11  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 LabSampleId :  
 SSTDCCC0.4

Quant Time: May 28 17:56:45 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN051425.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 14 11:26:32 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  | 117   | 0.00     |
| 2       | 1,4-Dioxane                | 0.491 | 0.489 | 0.4  | 111   | 0.00     |
| 3       | n-Nitrosodimethylamine     | 1.054 | 1.054 | 0.0  | 125   | 0.00     |
| 4 S     | 2-Fluorophenol             | 1.048 | 0.938 | 10.5 | 96    | 0.00     |
| 5 S     | Phenol-d6                  | 1.311 | 1.123 | 14.3 | 95    | 0.00     |
| 6       | bis(2-Chloroethyl)ether    | 1.207 | 1.100 | 8.9  | 111   | 0.00     |
| 7 I     | Naphthalene-d8             | 1.000 | 1.000 | 0.0  | 110   | -0.02    |
| 8 S     | Nitrobenzene-d5            | 0.436 | 0.426 | 2.3  | 118   | -0.01    |
| 9       | Naphthalene                | 1.182 | 1.133 | 4.1  | 109   | -0.01    |
| 10      | Hexachlorobutadiene        | 0.248 | 0.258 | -4.0 | 116   | -0.02    |
| 11 SURR | 2-Methylnaphthalene-d10    | 0.563 | 0.552 | 2.0  | 110   | -0.01    |
| 12      | 2-Methylnaphthalene        | 0.760 | 0.686 | 9.7  | 102   | -0.01    |
| 13 I    | Acenaphthene-d10           | 1.000 | 1.000 | 0.0  | 97    | -0.01    |
| 14 S    | 2,4,6-Tribromophenol       | 0.176 | 0.145 | 17.6 | 79    | -0.01    |
| 15 S    | 2-Fluorobiphenyl           | 1.832 | 1.889 | -3.1 | 96    | -0.01    |
| 16      | Acenaphthylene             | 1.947 | 1.837 | 5.6  | 94    | -0.02    |
| 17      | Acenaphthene               | 1.272 | 1.201 | 5.6  | 94    | -0.01    |
| 18      | Fluorene                   | 1.669 | 1.504 | 9.9  | 89    | -0.01    |
| 19 I    | Phenanthrene-d10           | 1.000 | 1.000 | 0.0  | 85    | 0.00     |
| 20      | 4,6-Dinitro-2-methylphenol | 0.090 | 0.077 | 14.4 | 89    | -0.01    |
| 21      | 4-Bromophenyl-phenylether  | 0.253 | 0.257 | -1.6 | 87    | -0.01    |
| 22      | Hexachlorobenzene          | 0.270 | 0.287 | -6.3 | 86    | -0.01    |
| 23      | Atrazine                   | 0.220 | 0.194 | 11.8 | 78    | -0.01    |
| 24      | Pentachlorophenol          | 0.149 | 0.130 | 12.8 | 78    | -0.01    |
| 25      | Phenanthrene               | 1.307 | 1.233 | 5.7  | 81    | -0.01    |
| 26      | Anthracene                 | 1.190 | 1.086 | 8.7  | 79    | -0.01    |
| 27 SURR | Fluoranthene-d10           | 1.097 | 0.986 | 10.1 | 77    | 0.00     |
| 28      | Fluoranthene               | 1.562 | 1.272 | 18.6 | 72    | -0.01    |
| 29 I    | Chrysene-d12               | 1.000 | 1.000 | 0.0  | 68    | 0.00     |
| 30      | Pyrene                     | 1.711 | 1.785 | -4.3 | 70    | 0.00     |
| 31 S    | Terphenyl-d14              | 0.856 | 0.888 | -3.7 | 69    | 0.00     |
| 32      | Benzo(a)anthracene         | 1.506 | 1.376 | 8.6  | 63    | -0.02    |
| 33      | Chrysene                   | 1.593 | 1.591 | 0.1  | 67    | 0.00     |
| 34      | Bis(2-ethylhexyl)phthalate | 0.927 | 0.827 | 10.8 | 62    | 0.00     |
| 35 I    | Perylene-d12               | 1.000 | 1.000 | 0.0  | 68    | -0.02    |
| 36      | Indeno(1,2,3-cd)pyrene     | 1.634 | 1.645 | -0.7 | 68    | -0.04    |
| 37      | Benzo(b)fluoranthene       | 1.659 | 1.484 | 10.5 | 63    | -0.01    |
| 38      | Benzo(k)fluoranthene       | 1.639 | 1.523 | 7.1  | 63    | -0.02    |
| 39 C    | Benzo(a)pyrene             | 1.407 | 1.292 | 8.2  | 64    | -0.02    |
| 40      | Dibenzo(a,h)anthracene     | 1.272 | 1.280 | -0.6 | 69    | -0.03    |
| 41      | Benzo(g,h,i)perylene       | 1.383 | 1.468 | -6.1 | 71    | -0.03    |

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN052825\  
 Data File : BN037112.D  
 Acq On : 28 May 2025 17:11  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 LabSampleId :  
 SSTDCCC0.4

Quant Time: May 28 17:56:45 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN051425.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 14 11:26:32 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  | 117   | 0.00     |
| 2       | 1,4-Dioxane                | 0.400  | 0.399 | 0.3  | 111   | 0.00     |
| 3       | n-Nitrosodimethylamine     | 0.400  | 0.400 | 0.0  | 125   | 0.00     |
| 4 S     | 2-Fluorophenol             | 0.400  | 0.358 | 10.5 | 96    | 0.00     |
| 5 S     | Phenol-d6                  | 0.400  | 0.342 | 14.5 | 95    | 0.00     |
| 6       | bis(2-Chloroethyl)ether    | 0.400  | 0.365 | 8.8  | 111   | 0.00     |
| 7 I     | Naphthalene-d8             | 0.400  | 0.400 | 0.0  | 110   | -0.02    |
| 8 S     | Nitrobenzene-d5            | 0.400  | 0.391 | 2.3  | 118   | -0.01    |
| 9       | Naphthalene                | 0.400  | 0.383 | 4.3  | 109   | -0.01    |
| 10      | Hexachlorobutadiene        | 0.400  | 0.416 | -4.0 | 116   | -0.02    |
| 11 SURR | 2-Methylnaphthalene-d10    | 0.400  | 0.392 | 2.0  | 110   | -0.01    |
| 12      | 2-Methylnaphthalene        | 0.400  | 0.361 | 9.8  | 102   | -0.01    |
| 13 I    | Acenaphthene-d10           | 0.400  | 0.400 | 0.0  | 97    | -0.01    |
| 14 S    | 2,4,6-Tribromophenol       | 0.400  | 0.330 | 17.5 | 79    | -0.01    |
| 15 S    | 2-Fluorobiphenyl           | 0.400  | 0.412 | -3.0 | 96    | -0.01    |
| 16      | Acenaphthylene             | 0.400  | 0.377 | 5.8  | 94    | -0.02    |
| 17      | Acenaphthene               | 0.400  | 0.378 | 5.5  | 94    | -0.01    |
| 18      | Fluorene                   | 0.400  | 0.361 | 9.8  | 89    | -0.01    |
| 19 I    | Phenanthrene-d10           | 0.400  | 0.400 | 0.0  | 85    | 0.00     |
| 20      | 4,6-Dinitro-2-methylphenol | 0.400  | 0.398 | 0.5  | 89    | -0.01    |
| 21      | 4-Bromophenyl-phenylether  | 0.400  | 0.406 | -1.5 | 87    | -0.01    |
| 22      | Hexachlorobenzene          | 0.400  | 0.425 | -6.2 | 86    | -0.01    |
| 23      | Atrazine                   | 0.400  | 0.352 | 12.0 | 78    | -0.01    |
| 24      | Pentachlorophenol          | 0.400  | 0.350 | 12.5 | 78    | -0.01    |
| 25      | Phenanthrene               | 0.400  | 0.377 | 5.8  | 81    | -0.01    |
| 26      | Anthracene                 | 0.400  | 0.365 | 8.8  | 79    | -0.01    |
| 27 SURR | Fluoranthene-d10           | 0.400  | 0.360 | 10.0 | 77    | 0.00     |
| 28      | Fluoranthene               | 0.400  | 0.326 | 18.5 | 72    | -0.01    |
| 29 I    | Chrysene-d12               | 0.400  | 0.400 | 0.0  | 68    | 0.00     |
| 30      | Pyrene                     | 0.400  | 0.417 | -4.2 | 70    | 0.00     |
| 31 S    | Terphenyl-d14              | 0.400  | 0.415 | -3.7 | 69    | 0.00     |
| 32      | Benzo(a)anthracene         | 0.400  | 0.365 | 8.8  | 63    | -0.02    |
| 33      | Chrysene                   | 0.400  | 0.400 | 0.0  | 67    | 0.00     |
| 34      | Bis(2-ethylhexyl)phthalate | 0.400  | 0.357 | 10.8 | 62    | 0.00     |
| 35 I    | Perylene-d12               | 0.400  | 0.400 | 0.0  | 68    | -0.02    |
| 36      | Indeno(1,2,3-cd)pyrene     | 0.400  | 0.403 | -0.8 | 68    | -0.04    |
| 37      | Benzo(b)fluoranthene       | 0.400  | 0.358 | 10.5 | 63    | -0.01    |
| 38      | Benzo(k)fluoranthene       | 0.400  | 0.372 | 7.0  | 63    | -0.02    |
| 39 C    | Benzo(a)pyrene             | 0.400  | 0.367 | 8.3  | 64    | -0.02    |
| 40      | Dibenzo(a,h)anthracene     | 0.400  | 0.402 | -0.5 | 69    | -0.03    |
| 41      | Benzo(g,h,i)perylene       | 0.400  | 0.425 | -6.2 | 71    | -0.03    |

(#) = 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.: Q2118 SAS No.: Q2118 SDG No.: Q2118

Instrument ID: BNA\_N Calibration Date/Time: 05/29/2025 01:35

Lab File ID: BN037126.D Init. Calib. Date(s): 05/13/2025 05/13/2025

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 17:41 21:17

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

| COMPOUND                | RRF   | RRF0.4 | MIN<br>RRF | %D    | MAX%D |
|-------------------------|-------|--------|------------|-------|-------|
| 2-Methylnaphthalene-d10 | 0.563 | 0.577  |            | 2.5   | 50.0  |
| Fluoranthene-d10        | 1.097 | 1.019  |            | -7.1  | 50.0  |
| 2-Fluorophenol          | 1.048 | 0.946  |            | -9.7  | 50.0  |
| Phenol-d6               | 1.311 | 1.170  |            | -10.8 | 50.0  |
| Nitrobenzene-d5         | 0.436 | 0.407  |            | -6.7  | 50.0  |
| 2-Fluorobiphenyl        | 1.832 | 1.641  |            | -10.4 | 50.0  |
| 2,4,6-Tribromophenol    | 0.176 | 0.153  |            | -13.1 | 50.0  |
| Terphenyl-d14           | 0.856 | 1.004  |            | 17.3  | 50.0  |
| 1,4-Dioxane             | 0.491 | 0.459  |            | -6.5  | 50.0  |

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN052825\  
 Data File : BN037126.D  
 Acq On : 29 May 2025 01:35  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4EC

Quant Time: May 29 03:44:52 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN051425.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 14 11:26:32 2025  
 Response via : Initial Calibration

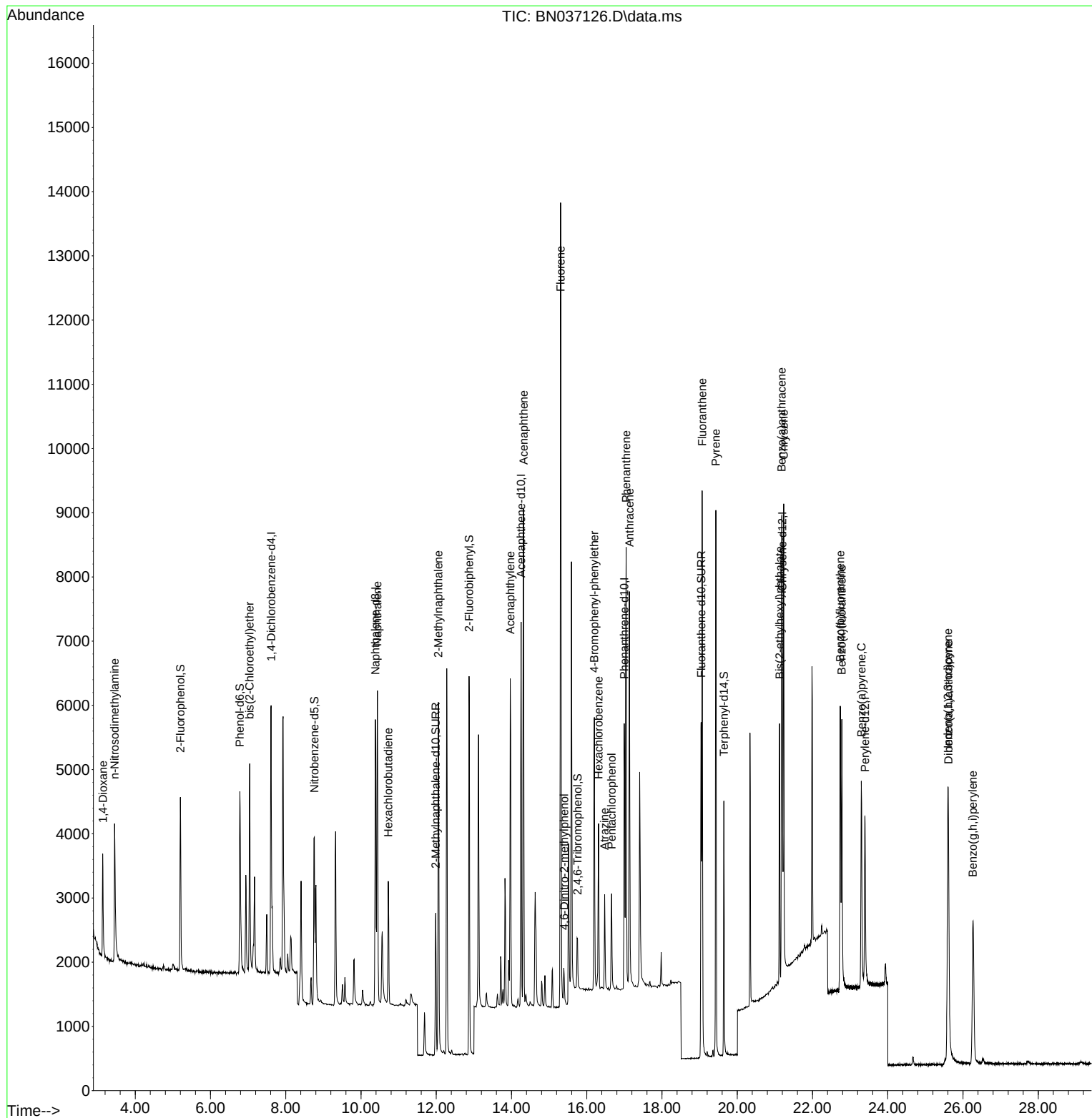
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.611  | 152  | 2032     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.383 | 136  | 5568     | 0.400 | ng    | #-0.02   |
| 13) Acenaphthene-d10          | 14.256 | 164  | 3201     | 0.400 | ng    | -0.01    |
| 19) Phenanthrene-d10          | 16.996 | 188  | 5866     | 0.400 | ng    | -0.01    |
| 29) Chrysene-d12              | 21.198 | 240  | 3944     | 0.400 | ng    | # 0.00   |
| 35) Perylene-d12              | 23.395 | 264  | 3424     | 0.400 | ng    | -0.02    |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.199  | 112  | 1923     | 0.361 | ng    | -0.01    |
| 5) Phenol-d6                  | 6.781  | 99   | 2378     | 0.357 | ng    | -0.01    |
| 8) Nitrobenzene-d5            | 8.760  | 82   | 2265     | 0.374 | ng    | -0.01    |
| 11) 2-Methylnaphthalene-d10   | 11.986 | 152  | 3215     | 0.410 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.755 | 330  | 491      | 0.349 | ng    | -0.01    |
| 15) 2-Fluorobiphenyl          | 12.873 | 172  | 5253     | 0.358 | ng    | -0.02    |
| 27) Fluoranthene-d10          | 19.040 | 212  | 5978     | 0.372 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.644 | 244  | 3958     | 0.469 | ng    | -0.01    |
| Target Compounds              |        |      |          |       |       |          |
| 2) 1,4-Dioxane                | 3.141  | 88   | 933      | 0.374 | ng    | # 94     |
| 3) n-Nitrosodimethylamine     | 3.451  | 42   | 2159     | 0.403 | ng    | # 88     |
| 6) bis(2-Chloroethyl)ether    | 7.041  | 93   | 2314     | 0.377 | ng    | 97       |
| 9) Naphthalene                | 10.436 | 128  | 6206     | 0.377 | ng    | 99       |
| 10) Hexachlorobutadiene       | 10.725 | 225  | 1409     | 0.408 | ng    | # 100    |
| 12) 2-Methylnaphthalene       | 12.057 | 142  | 3960     | 0.374 | ng    | 98       |
| 16) Acenaphthylene            | 13.967 | 152  | 5690     | 0.365 | ng    | 99       |
| 17) Acenaphthene              | 14.320 | 154  | 3760     | 0.369 | ng    | 100      |
| 18) Fluorene                  | 15.304 | 166  | 4908     | 0.367 | ng    | 100      |
| 20) 4,6-Dinitro-2-methylph... | 15.400 | 198  | 466      | 0.410 | ng    | # 83     |
| 21) 4-Bromophenyl-phenylether | 16.202 | 248  | 1474     | 0.398 | ng    | 99       |
| 22) Hexachlorobenzene         | 16.314 | 284  | 1676     | 0.423 | ng    | 97       |
| 23) Atrazine                  | 16.475 | 200  | 1212     | 0.375 | ng    | 97       |
| 24) Pentachlorophenol         | 16.661 | 266  | 748      | 0.342 | ng    | 95       |
| 25) Phenanthrene              | 17.046 | 178  | 7265     | 0.379 | ng    | 99       |
| 26) Anthracene                | 17.133 | 178  | 6349     | 0.364 | ng    | 100      |
| 28) Fluoranthene              | 19.068 | 202  | 7765     | 0.339 | ng    | 98       |
| 30) Pyrene                    | 19.430 | 202  | 7766     | 0.460 | ng    | 100      |
| 32) Benzo(a)anthracene        | 21.180 | 228  | 5419     | 0.365 | ng    | 98       |
| 33) Chrysene                  | 21.233 | 228  | 6182     | 0.394 | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 21.126 | 149  | 3666     | 0.401 | ng    | 99       |
| 36) Indeno(1,2,3-cd)pyrene    | 25.599 | 276  | 5322     | 0.381 | ng    | 97       |
| 37) Benzo(b)fluoranthene      | 22.737 | 252  | 5275     | 0.371 | ng    | 98       |
| 38) Benzo(k)fluoranthene      | 22.778 | 252  | 5528     | 0.394 | ng    | 98       |
| 39) Benzo(a)pyrene            | 23.298 | 252  | 4455     | 0.370 | ng    | 96       |
| 40) Dibenzo(a,h)anthracene    | 25.611 | 278  | 4085     | 0.375 | ng    | 99       |
| 41) Benzo(g,h,i)perylene      | 26.263 | 276  | 4756     | 0.402 | ng    | 99       |

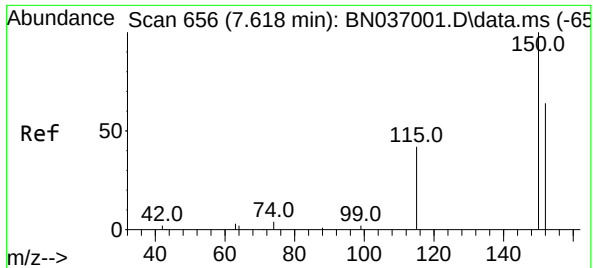
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN052825\  
Data File : BN037126.D  
Acq On : 29 May 2025 01:35  
Operator : RC/JU  
Sample : SSTDCCC0.4  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

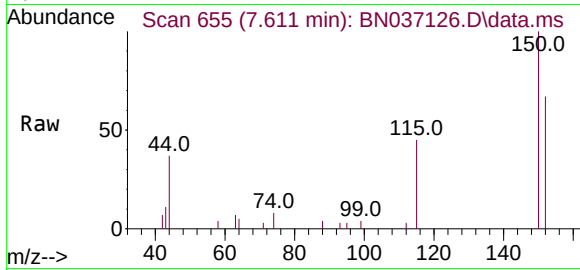
Quant Time: May 29 03:44:52 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN051425.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed May 14 11:26:32 2025  
Response via : Initial Calibration



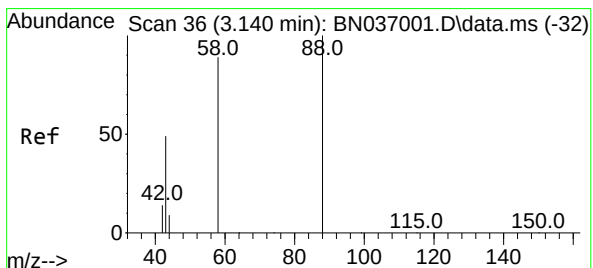
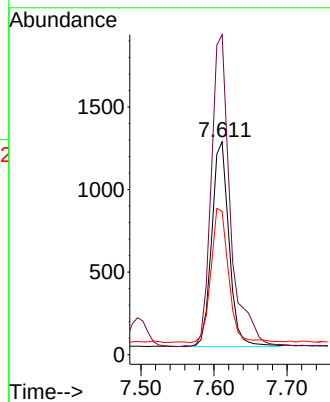
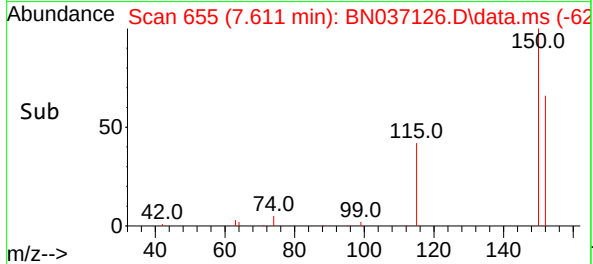


#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.611 min Scan# 61  
Delta R.T. -0.007 min  
Lab File: BN037126.D  
Acq: 29 May 2025 01:35

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

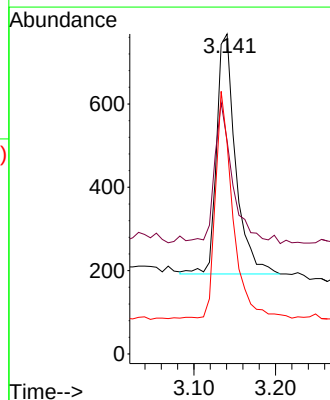
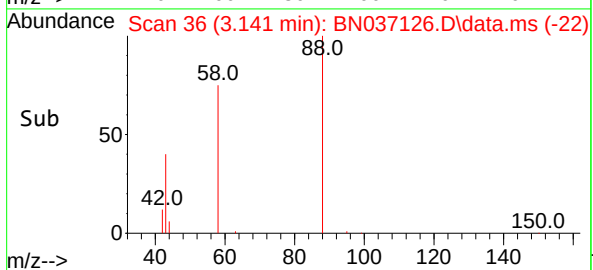
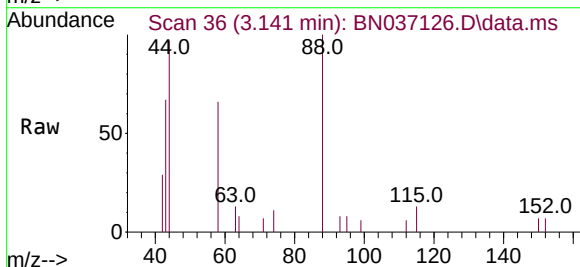


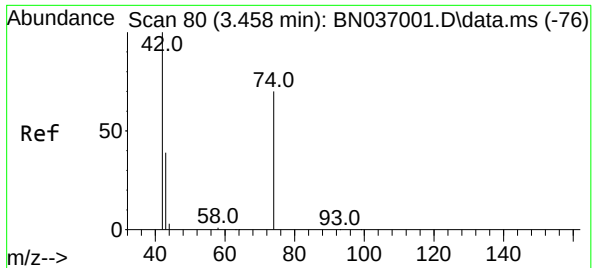
Tgt Ion:152 Resp: 2032  
Ion Ratio Lower Upper  
152 100  
150 150.3 123.9 185.9  
115 67.3 55.8 83.8



#2  
1,4-Dioxane  
Concen: 0.374 ng  
RT: 3.141 min Scan# 36  
Delta R.T. 0.001 min  
Lab File: BN037126.D  
Acq: 29 May 2025 01:35

Tgt Ion: 88 Resp: 933  
Ion Ratio Lower Upper  
88 100  
43 56.7 37.4 56.0#  
58 86.5 68.8 103.2

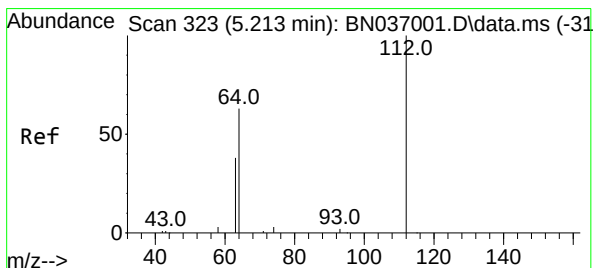
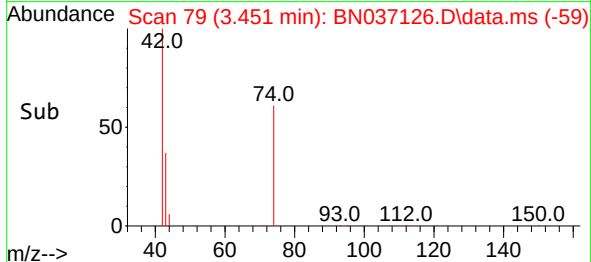
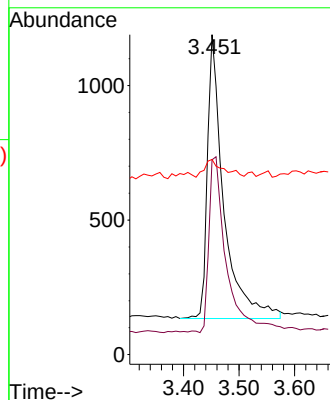
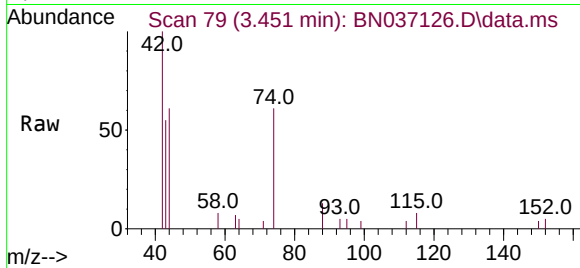




#3  
n-Nitrosodimethylamine  
Concen: 0.403 ng  
RT: 3.451 min Scan# 79  
Delta R.T. -0.007 min  
Lab File: BN037126.D  
Acq: 29 May 2025 01:35

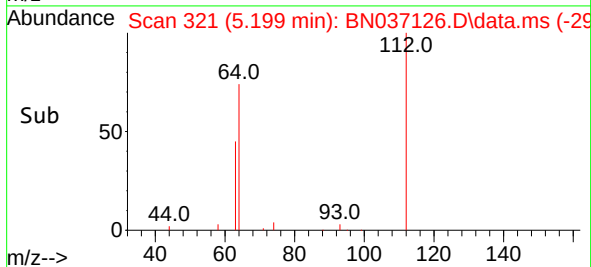
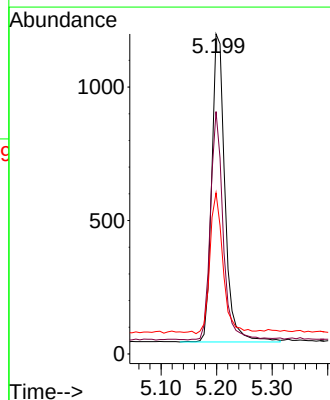
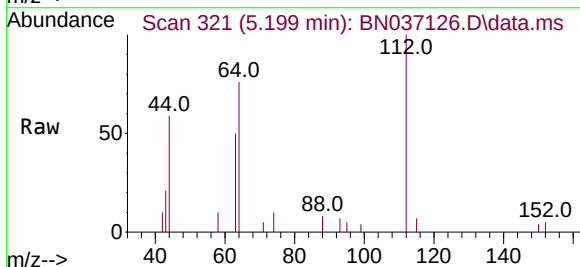
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

Tgt Ion: 42 Resp: 2159  
Ion Ratio Lower Upper  
42 100  
74 65.6 59.8 89.6  
44 7.2 11.9 17.9#

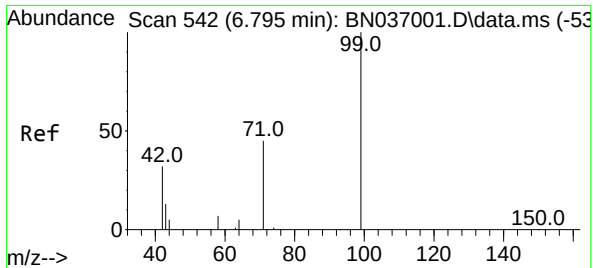


#4  
2-Fluorophenol  
Concen: 0.361 ng  
RT: 5.199 min Scan# 321  
Delta R.T. -0.014 min  
Lab File: BN037126.D  
Acq: 29 May 2025 01:35

Tgt Ion: 112 Resp: 1923  
Ion Ratio Lower Upper  
112 100  
64 70.7 55.7 83.5  
63 45.4 34.6 51.8



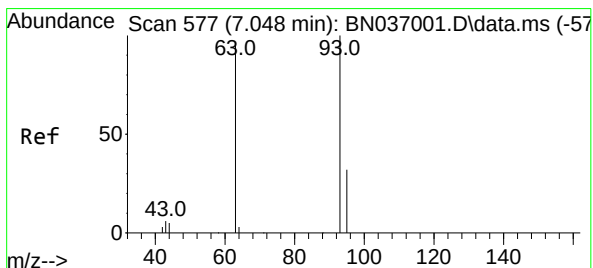
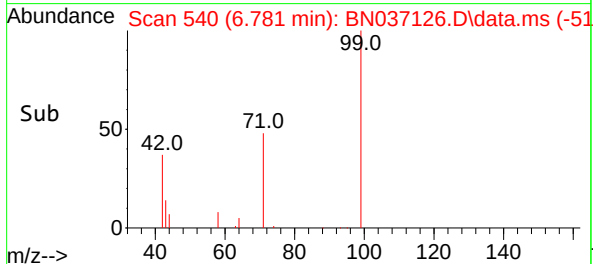
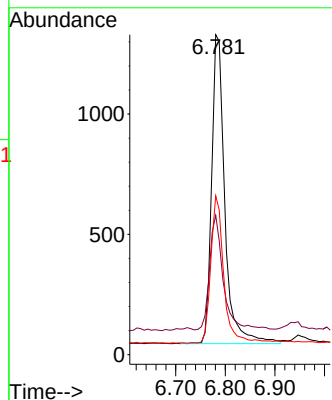
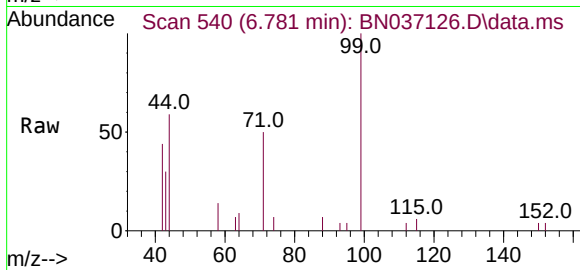




#5  
Phenol-d6  
Concen: 0.357 ng  
RT: 6.781 min Scan# 54  
Delta R.T. -0.014 min  
Lab File: BN037126.D  
Acq: 29 May 2025 01:35

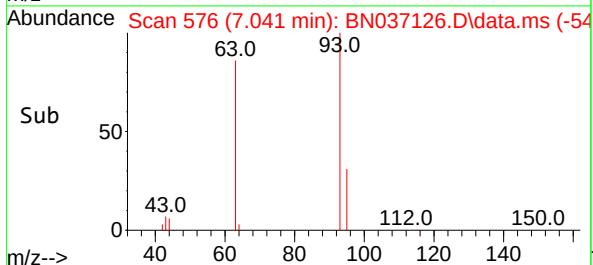
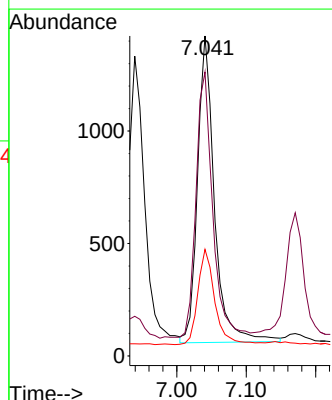
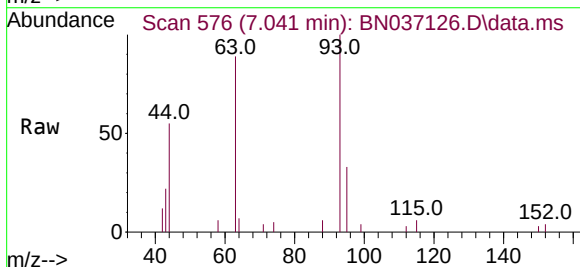
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

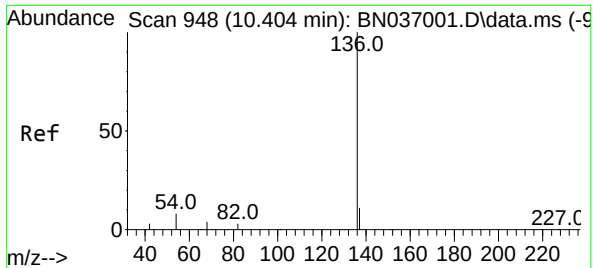
Tgt Ion: 99 Resp: 2378  
Ion Ratio Lower Upper  
99 100  
42 38.4 29.3 43.9  
71 48.1 35.7 53.5



#6  
bis(2-Chloroethyl)ether  
Concen: 0.377 ng  
RT: 7.041 min Scan# 576  
Delta R.T. -0.007 min  
Lab File: BN037126.D  
Acq: 29 May 2025 01:35

Tgt Ion: 93 Resp: 2314  
Ion Ratio Lower Upper  
93 100  
63 85.0 70.1 105.1  
95 31.4 26.2 39.2

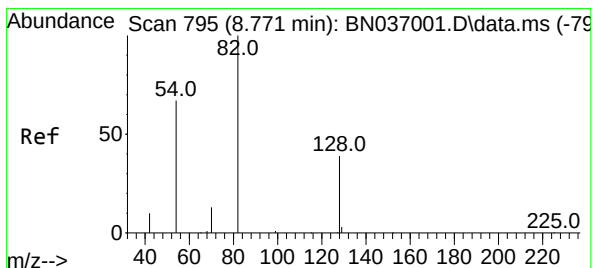
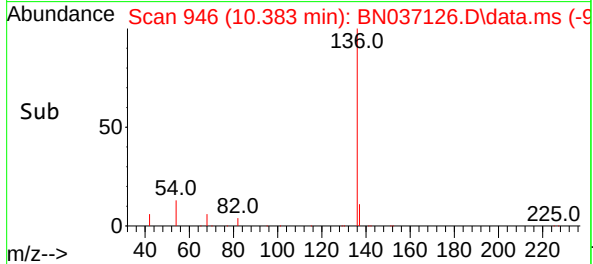
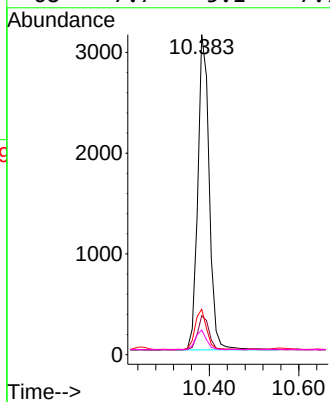
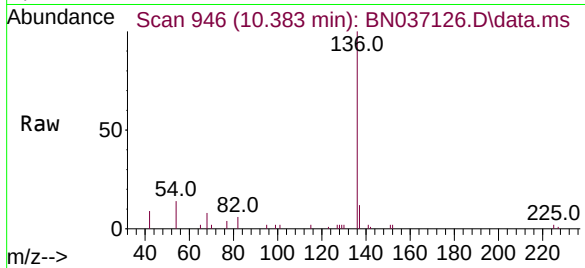




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.383 min Scan# 948  
Delta R.T. -0.021 min  
Lab File: BN037126.D  
Acq: 29 May 2025 01:35

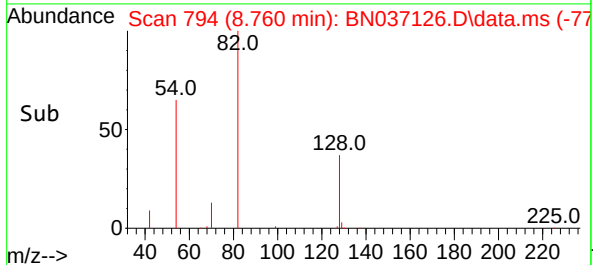
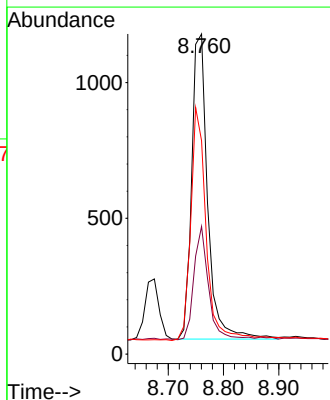
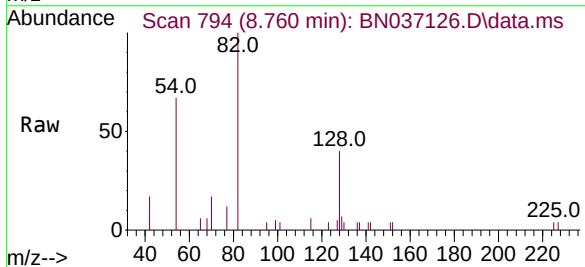
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

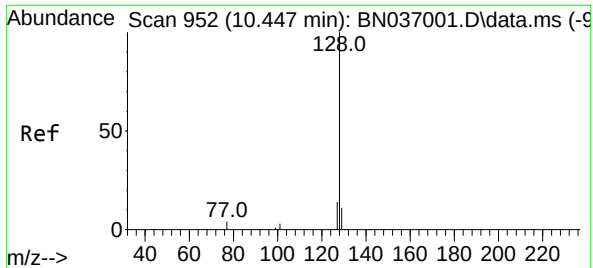
| Tgt Ion | 136  | 137  | 54    | 68   |
|---------|------|------|-------|------|
| Resp:   | 5568 |      |       |      |
| Ratio   | 100  | 12.2 | 14.2  | 7.7  |
| Lower   |      | 10.4 | 8.5   | 5.1  |
| Upper   |      | 15.6 | 12.7# | 7.7# |



#8  
Nitrobenzene-d5  
Concen: 0.374 ng  
RT: 8.760 min Scan# 794  
Delta R.T. -0.011 min  
Lab File: BN037126.D  
Acq: 29 May 2025 01:35

| Tgt Ion | 82   | 128  | 54   |
|---------|------|------|------|
| Resp:   | 2265 |      |      |
| Ratio   | 100  | 39.9 | 66.7 |
| Lower   |      | 34.0 | 55.0 |
| Upper   |      | 51.0 | 82.4 |

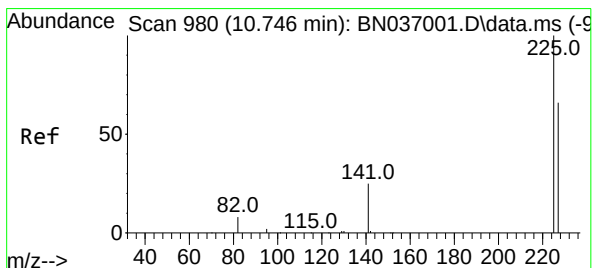
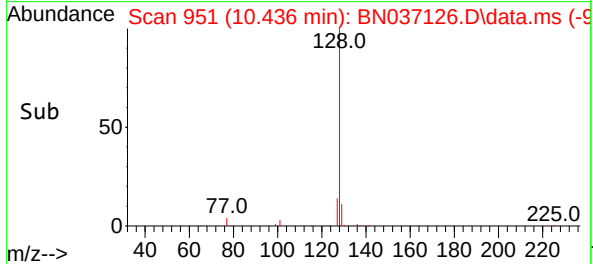
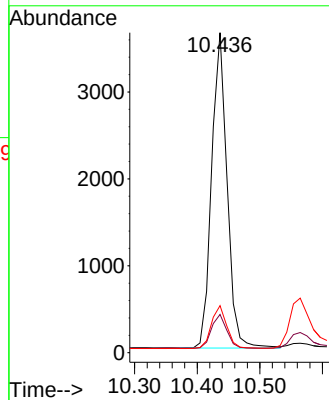
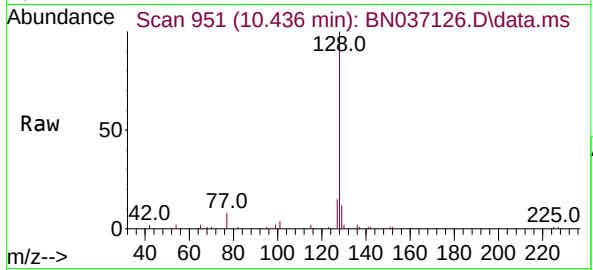




#9  
Naphthalene  
Concen: 0.377 ng  
RT: 10.436 min Scan# 91  
Delta R.T. -0.011 min  
Lab File: BN037126.D  
Acq: 29 May 2025 01:35

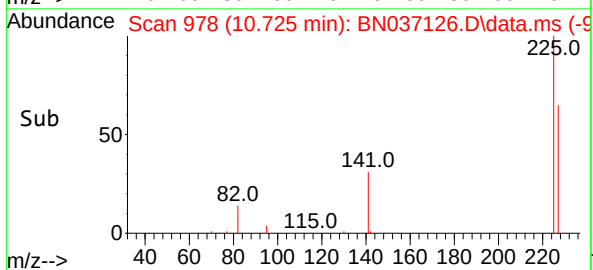
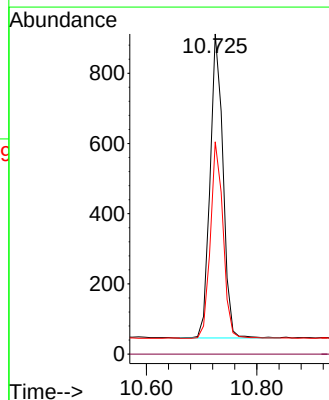
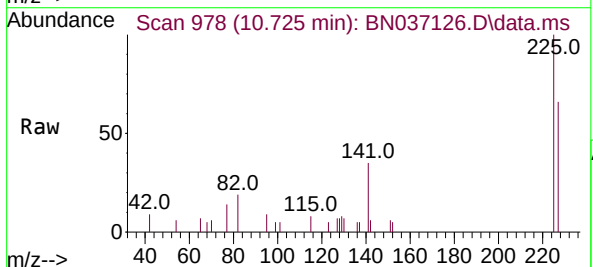
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

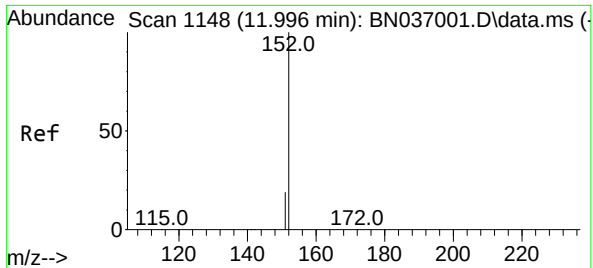
Tgt Ion:128 Resp: 6206  
Ion Ratio Lower Upper  
128 100  
129 12.0 9.7 14.5  
127 14.7 12.4 18.6



#10  
Hexachlorobutadiene  
Concen: 0.408 ng  
RT: 10.725 min Scan# 978  
Delta R.T. -0.021 min  
Lab File: BN037126.D  
Acq: 29 May 2025 01:35

Tgt Ion:225 Resp: 1409  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 63.4 50.9 76.3

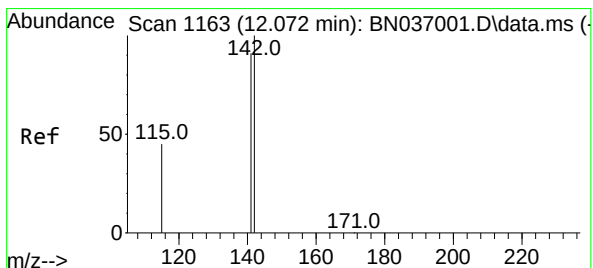
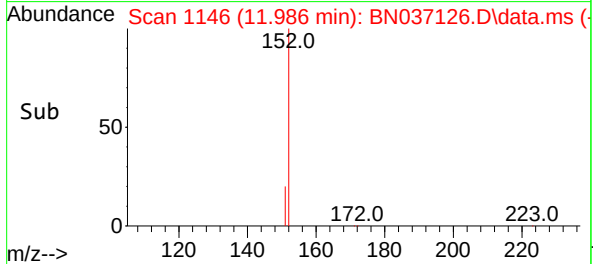
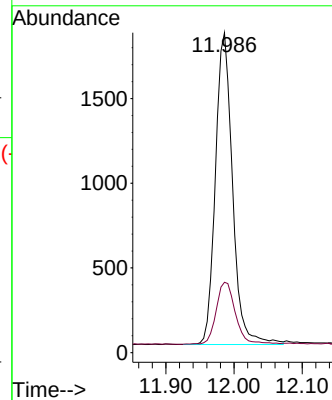
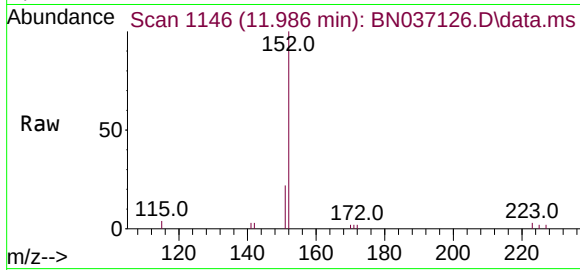




#11  
2-Methylnaphthalene-d10  
Concen: 0.410 ng  
RT: 11.986 min Scan# 1146  
Delta R.T. -0.010 min  
Lab File: BN037126.D  
Acq: 29 May 2025 01:35

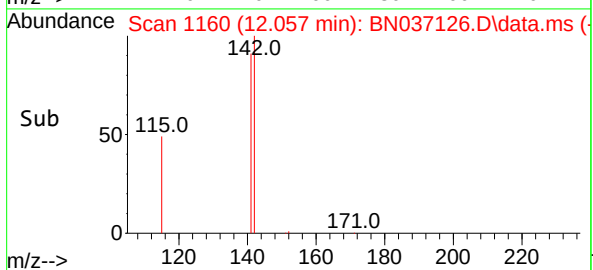
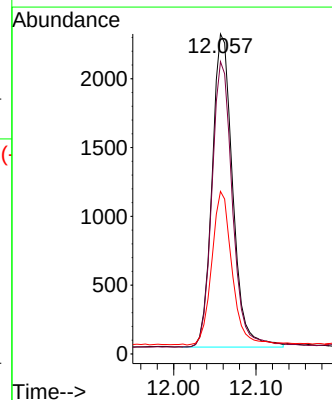
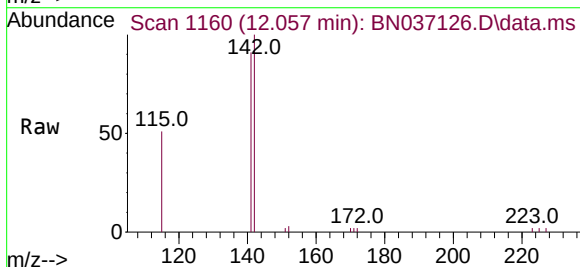
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

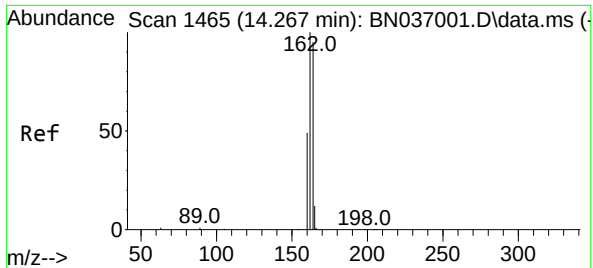
Tgt Ion:152 Resp: 3215  
Ion Ratio Lower Upper  
152 100  
151 22.5 17.5 26.3



#12  
2-Methylnaphthalene  
Concen: 0.374 ng  
RT: 12.057 min Scan# 1160  
Delta R.T. -0.015 min  
Lab File: BN037126.D  
Acq: 29 May 2025 01:35

Tgt Ion:142 Resp: 3960  
Ion Ratio Lower Upper  
142 100  
141 91.4 73.3 109.9  
115 50.8 38.4 57.6

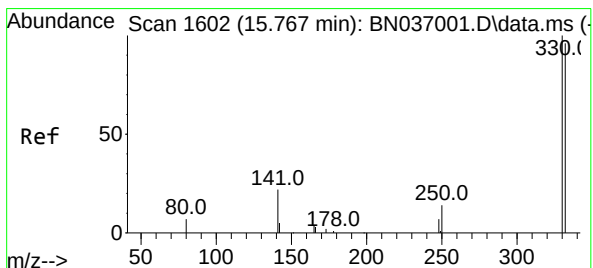
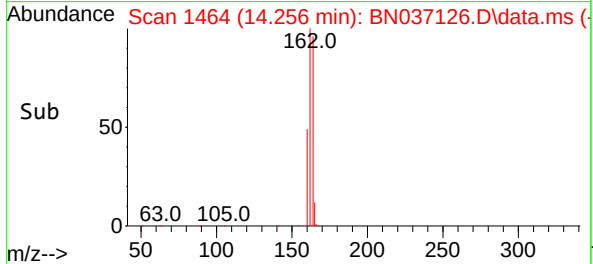
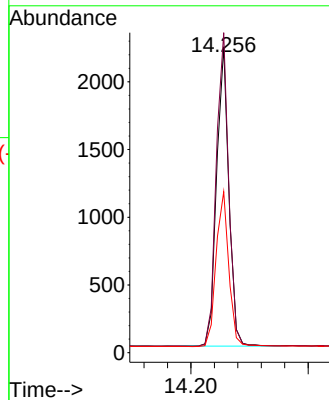
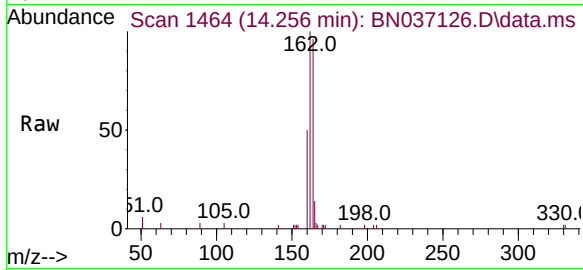




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.256 min Scan# 1464  
Delta R.T. -0.011 min  
Lab File: BN037126.D  
Acq: 29 May 2025 01:35

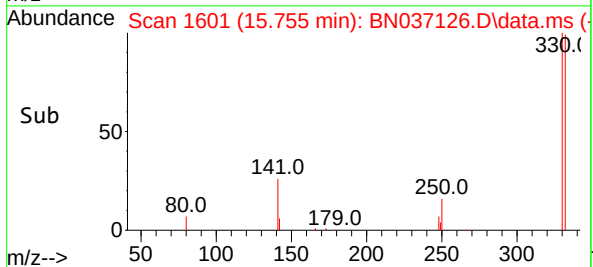
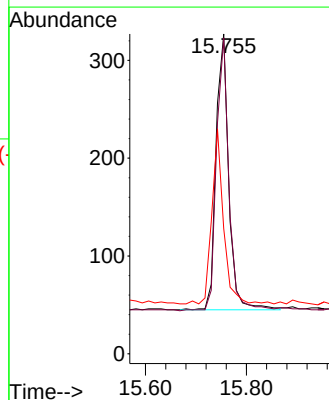
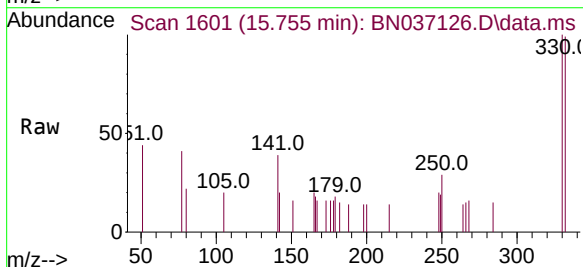
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

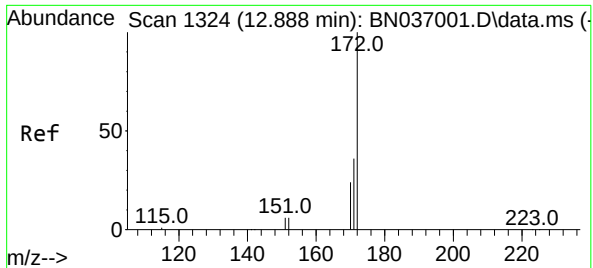
Tgt Ion:164 Resp: 3201  
Ion Ratio Lower Upper  
164 100  
162 104.6 84.2 126.4  
160 52.6 42.6 63.8



#14  
2,4,6-Tribromophenol  
Concen: 0.349 ng  
RT: 15.755 min Scan# 1601  
Delta R.T. -0.012 min  
Lab File: BN037126.D  
Acq: 29 May 2025 01:35

Tgt Ion:330 Resp: 491  
Ion Ratio Lower Upper  
330 100  
332 97.1 73.8 110.8  
141 58.5 43.9 65.9

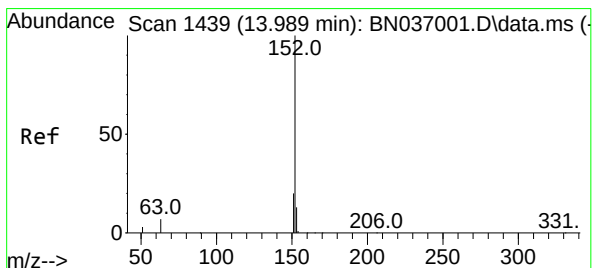
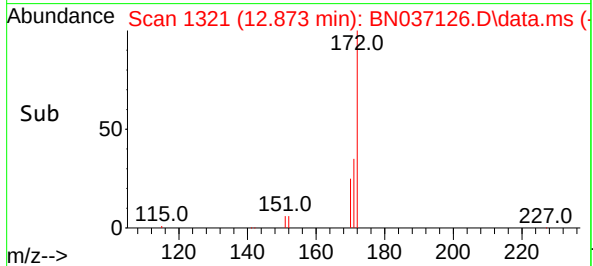
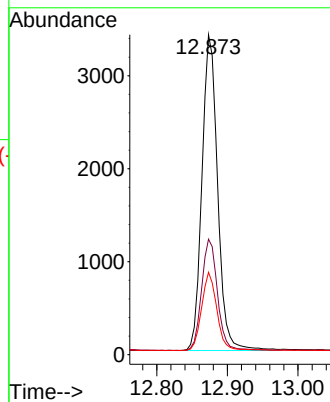
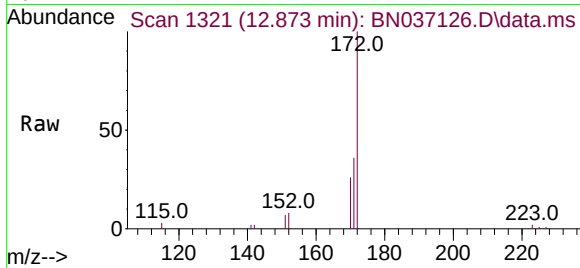




#15  
2-Fluorobiphenyl  
Concen: 0.358 ng  
RT: 12.873 min Scan# 11  
Delta R.T. -0.015 min  
Lab File: BN037126.D  
Acq: 29 May 2025 01:35

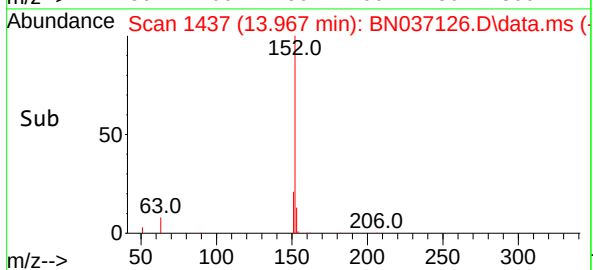
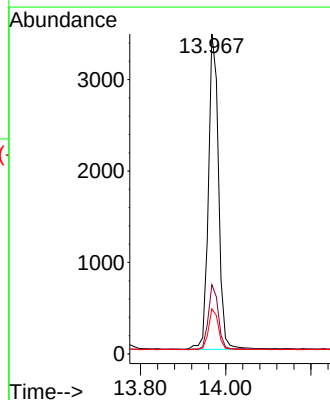
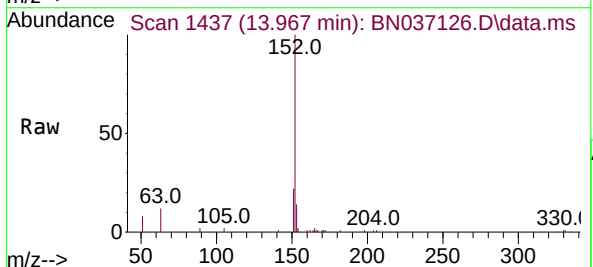
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

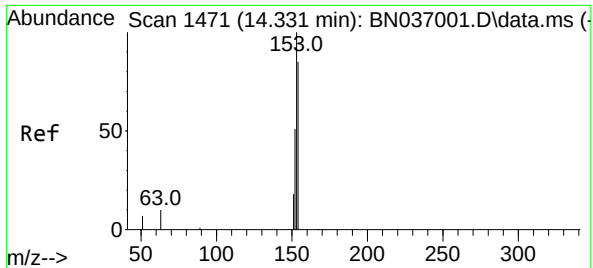
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.1  | 29.2  | 43.8  |
| 170     | 25.8  | 20.5  | 30.7  |



#16  
Acenaphthylene  
Concen: 0.365 ng  
RT: 13.967 min Scan# 1437  
Delta R.T. -0.021 min  
Lab File: BN037126.D  
Acq: 29 May 2025 01:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 20.3  | 16.1  | 24.1  |
| 153     | 12.8  | 10.5  | 15.7  |

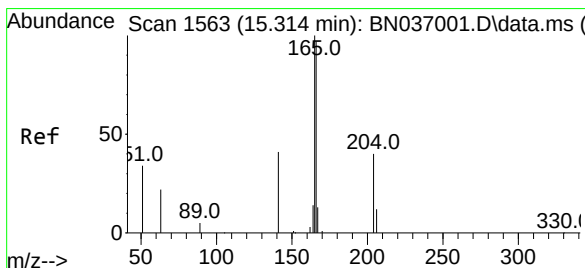
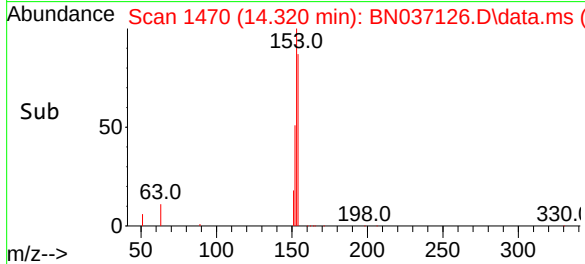
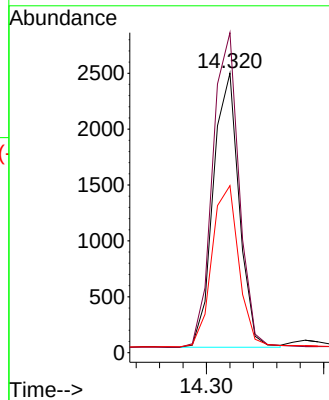
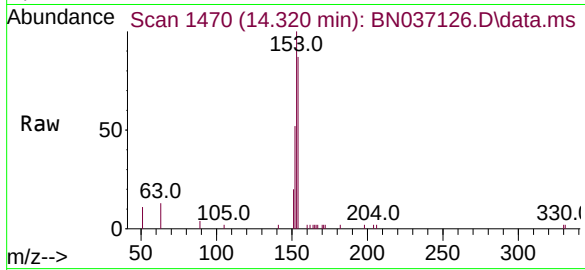




#17  
Acenaphthene  
Concen: 0.369 ng  
RT: 14.320 min Scan# 1471  
Delta R.T. -0.011 min  
Lab File: BN037126.D  
Acq: 29 May 2025 01:35

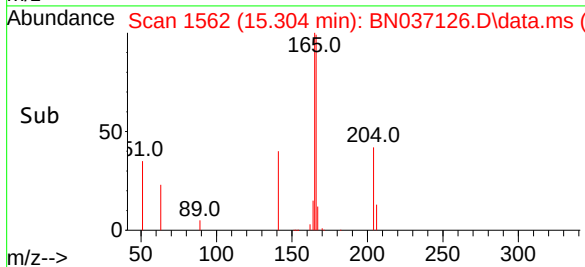
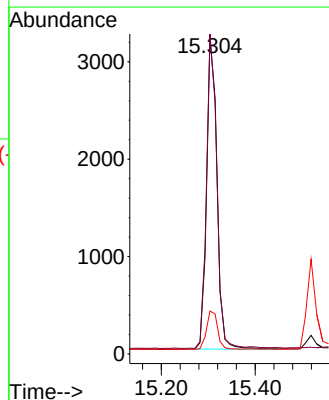
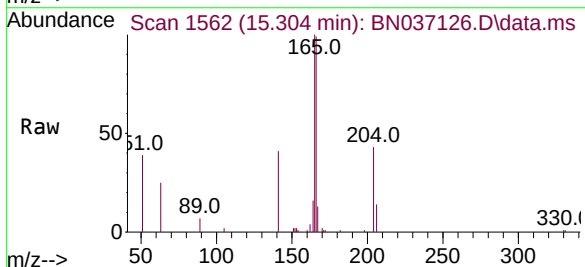
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

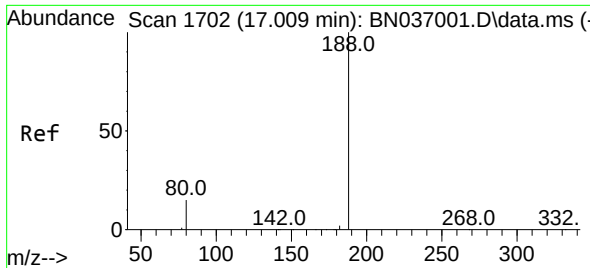
Tgt Ion:154 Resp: 3760  
Ion Ratio Lower Upper  
154 100  
153 117.6 94.2 141.4  
152 62.2 49.4 74.0



#18  
Fluorene  
Concen: 0.367 ng  
RT: 15.304 min Scan# 1562  
Delta R.T. -0.011 min  
Lab File: BN037126.D  
Acq: 29 May 2025 01:35

Tgt Ion:166 Resp: 4908  
Ion Ratio Lower Upper  
166 100  
165 100.7 80.6 120.8  
167 13.2 10.6 16.0

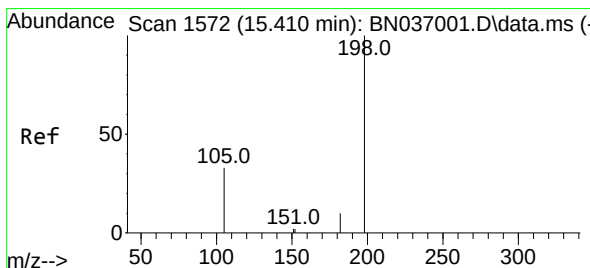
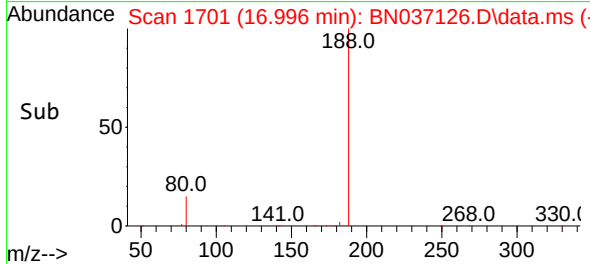
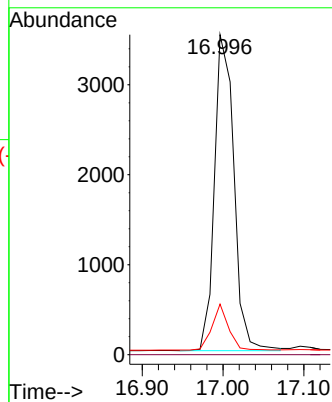
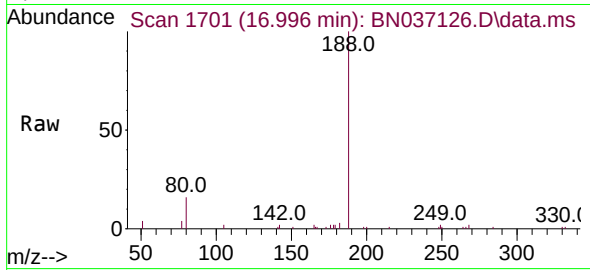




#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 16.996 min Scan# 11  
Delta R.T. -0.012 min  
Lab File: BN037126.D  
Acq: 29 May 2025 01:35

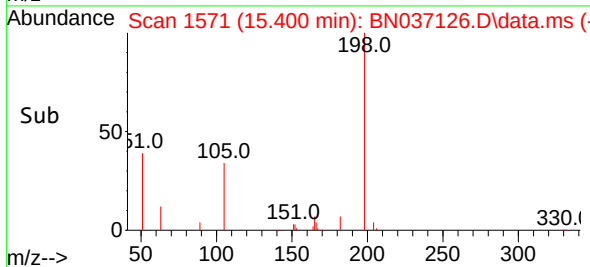
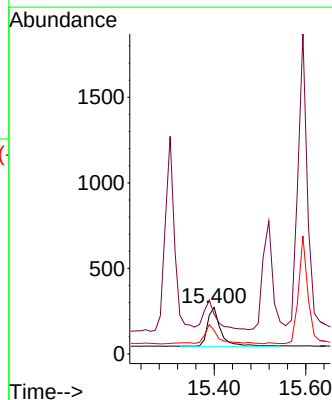
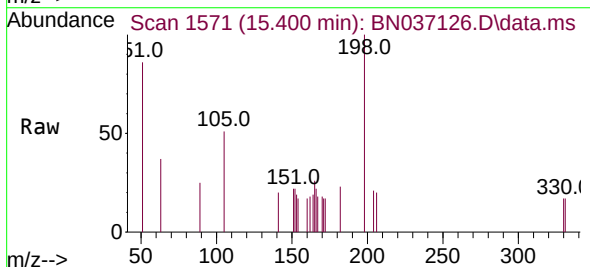
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

| Tgt Ion | 188 | 94  | 80   |
|---------|-----|-----|------|
| Ratio   | 100 | 0.0 | 15.8 |
| Lower   |     | 0.0 | 13.4 |
| Upper   |     | 0.0 | 20.0 |

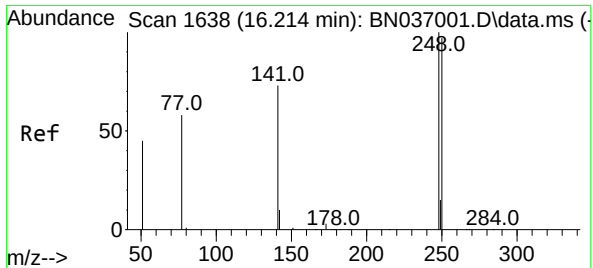


#20  
4,6-Dinitro-2-methylphenol  
Concen: 0.410 ng  
RT: 15.400 min Scan# 1571  
Delta R.T. -0.010 min  
Lab File: BN037126.D  
Acq: 29 May 2025 01:35

| Tgt Ion | 198 | 51    | 105  |
|---------|-----|-------|------|
| Ratio   | 100 | 85.7  | 50.7 |
| Lower   |     | 87.8  | 44.2 |
| Upper   |     | 131.6 | 66.4 |



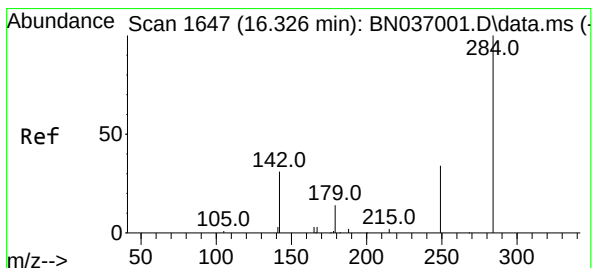
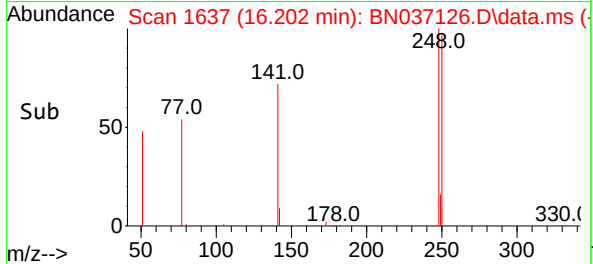
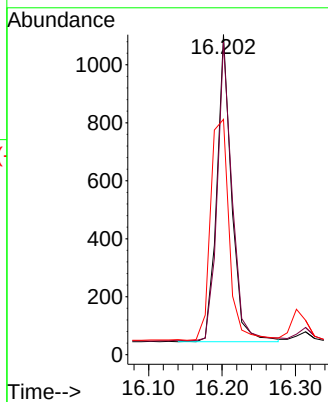
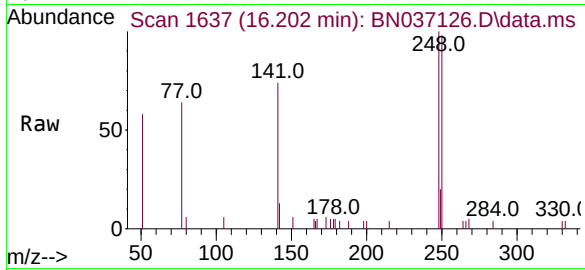




#21  
4-Bromophenyl-phenylether  
Concen: 0.398 ng  
RT: 16.202 min Scan# 1637  
Delta R.T. -0.012 min  
Lab File: BN037126.D  
Acq: 29 May 2025 01:35

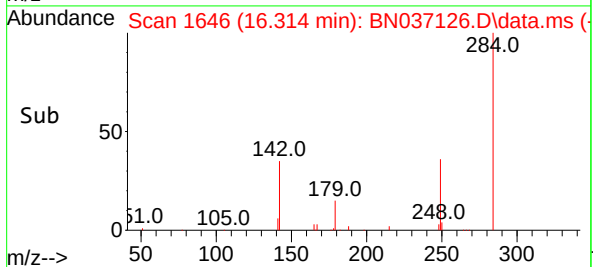
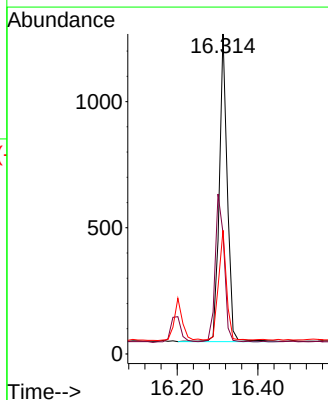
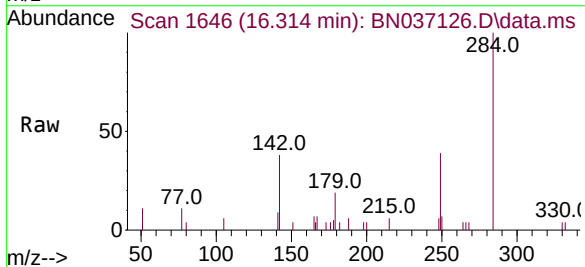
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

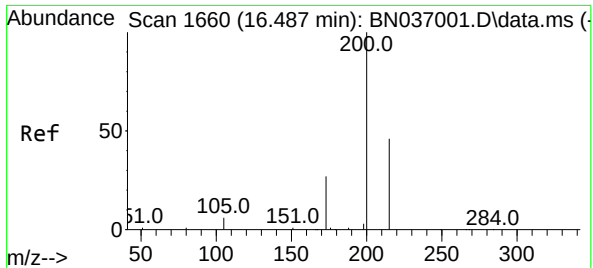
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 248     | 100   |       |       |
| 250     | 97.6  | 78.1  | 117.1 |
| 141     | 73.6  | 59.7  | 89.5  |



#22  
Hexachlorobenzene  
Concen: 0.423 ng  
RT: 16.314 min Scan# 1646  
Delta R.T. -0.012 min  
Lab File: BN037126.D  
Acq: 29 May 2025 01:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 284     | 100   |       |       |
| 142     | 54.1  | 41.2  | 61.8  |
| 249     | 35.3  | 28.7  | 43.1  |

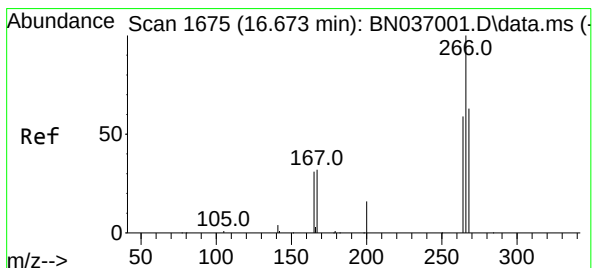
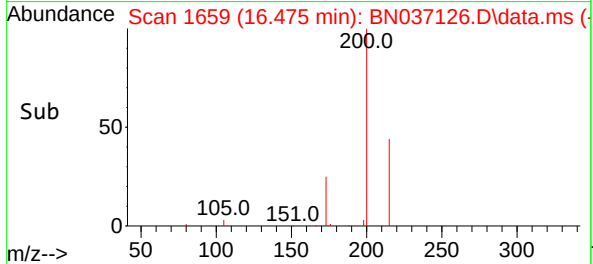
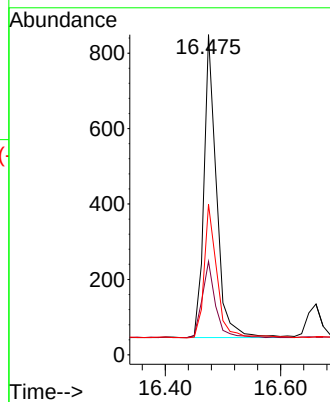
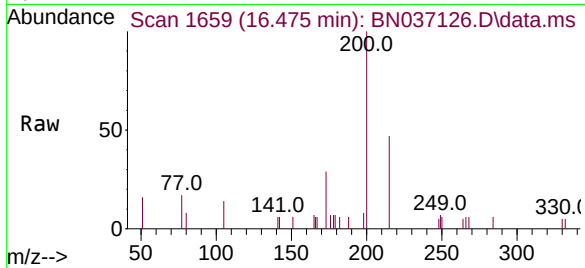




#23  
Atrazine  
Concen: 0.375 ng  
RT: 16.475 min Scan# 1659  
Delta R.T. -0.012 min  
Lab File: BN037126.D  
Acq: 29 May 2025 01:35

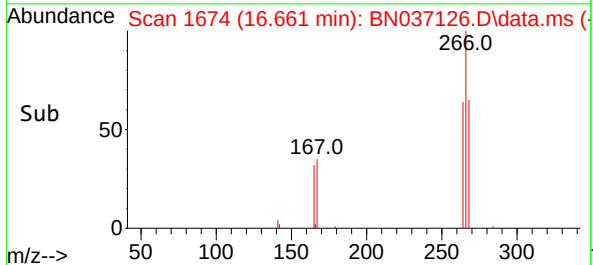
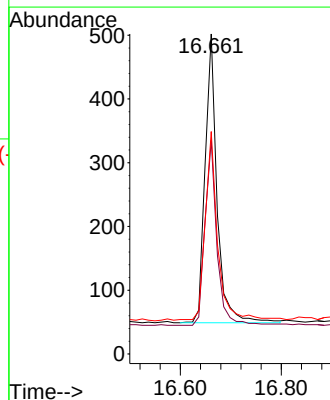
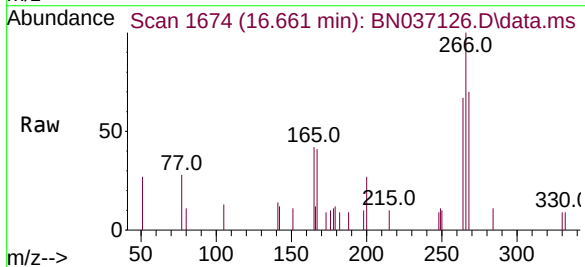
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

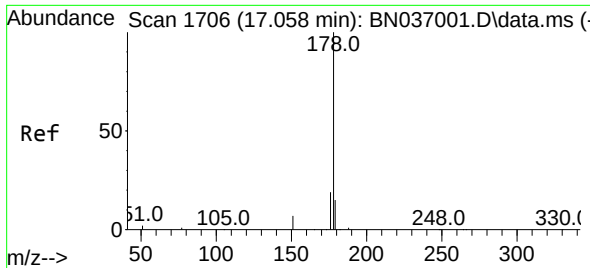
Tgt Ion:200 Resp: 1212  
Ion Ratio Lower Upper  
200 100  
173 29.2 25.2 37.8  
215 47.0 39.3 58.9



#24  
Pentachlorophenol  
Concen: 0.342 ng  
RT: 16.661 min Scan# 1674  
Delta R.T. -0.012 min  
Lab File: BN037126.D  
Acq: 29 May 2025 01:35

Tgt Ion:266 Resp: 748  
Ion Ratio Lower Upper  
266 100  
264 63.5 47.9 71.9  
268 66.0 50.0 75.0

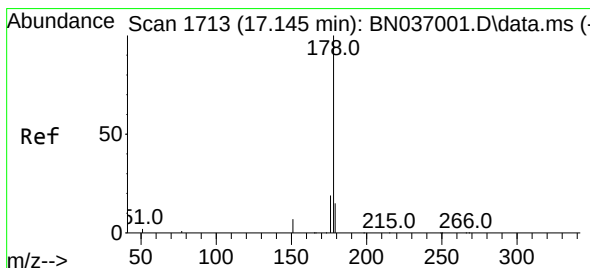
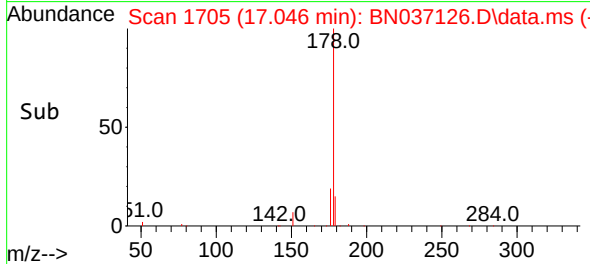
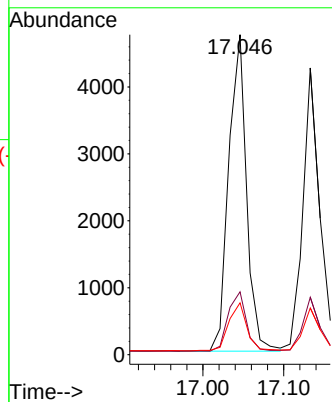
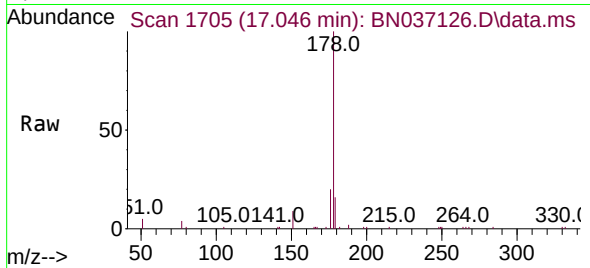




#25  
Phenanthrene  
Concen: 0.379 ng  
RT: 17.046 min Scan# 1711  
Delta R.T. -0.012 min  
Lab File: BN037126.D  
Acq: 29 May 2025 01:35

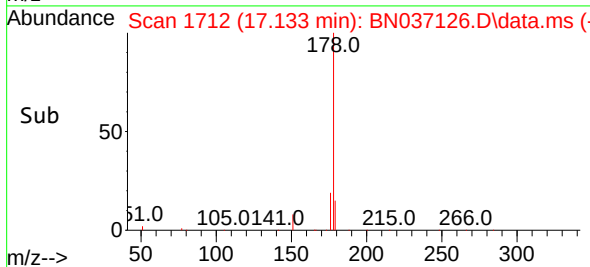
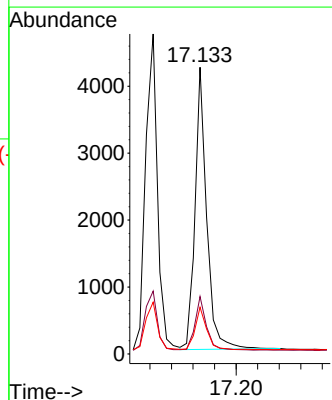
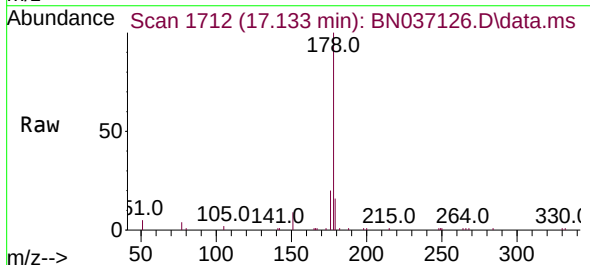
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

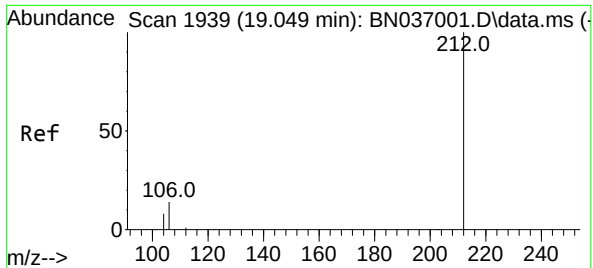
Tgt Ion:178 Resp: 7265  
Ion Ratio Lower Upper  
178 100  
176 19.4 15.7 23.5  
179 15.5 12.2 18.2



#26  
Anthracene  
Concen: 0.364 ng  
RT: 17.133 min Scan# 1712  
Delta R.T. -0.012 min  
Lab File: BN037126.D  
Acq: 29 May 2025 01:35

Tgt Ion:178 Resp: 6349  
Ion Ratio Lower Upper  
178 100  
176 19.0 15.0 22.6  
179 15.3 12.3 18.5

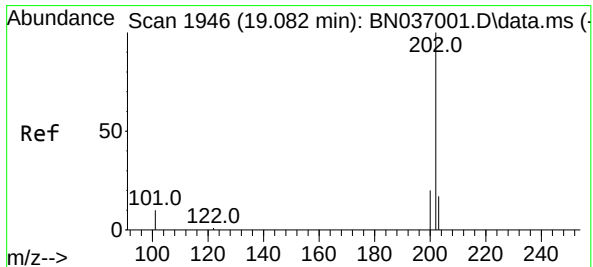
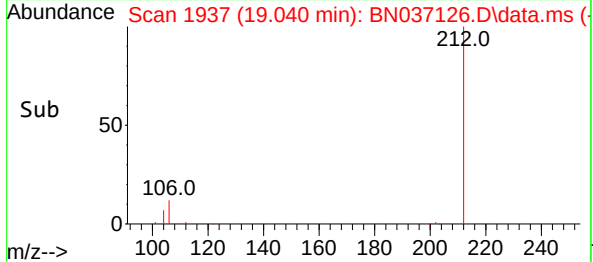
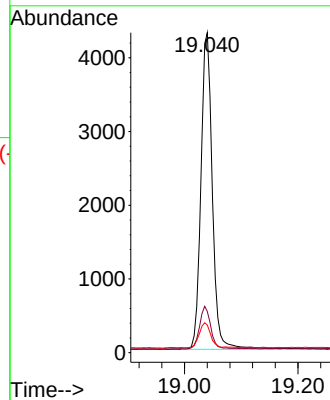
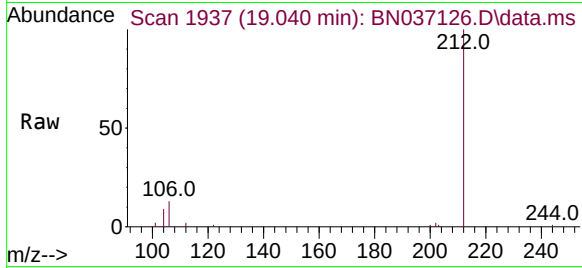




#27  
Fluoranthene-d10  
Concen: 0.372 ng  
RT: 19.040 min Scan# 1937  
Delta R.T. -0.009 min  
Lab File: BN037126.D  
Acq: 29 May 2025 01:35

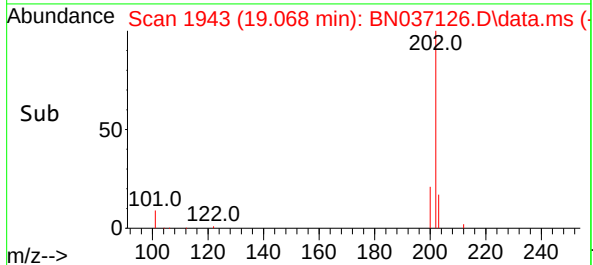
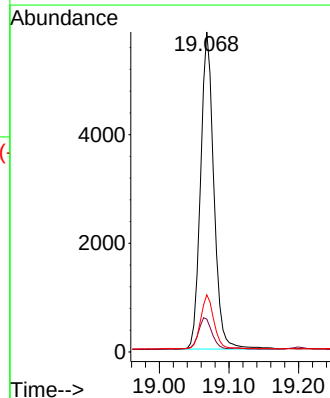
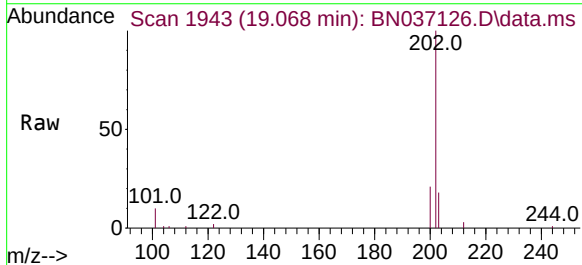
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

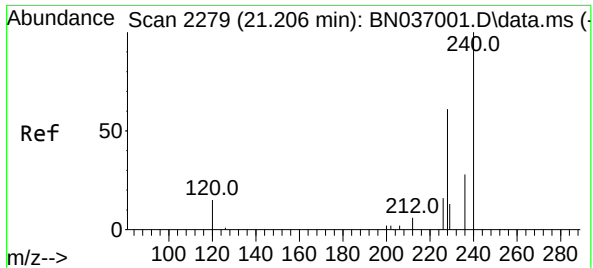
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 212     | 100   |       |       |
| 106     | 13.2  | 11.3  | 16.9  |
| 104     | 7.7   | 6.7   | 10.1  |



#28  
Fluoranthene  
Concen: 0.339 ng  
RT: 19.068 min Scan# 1943  
Delta R.T. -0.014 min  
Lab File: BN037126.D  
Acq: 29 May 2025 01:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 10.2  | 8.9   | 13.3  |
| 203     | 16.9  | 13.8  | 20.8  |

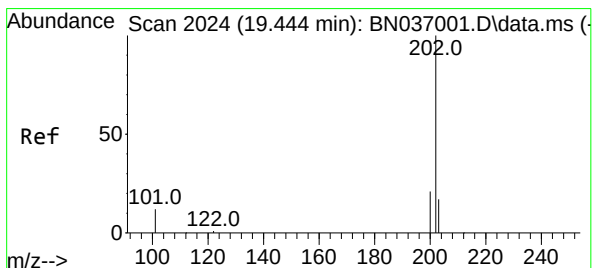
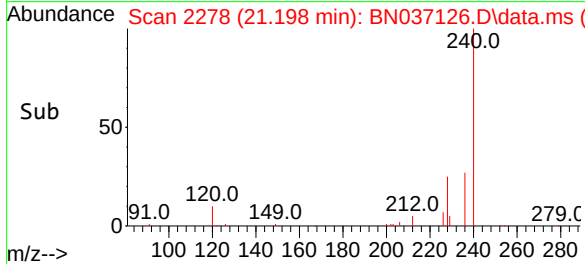
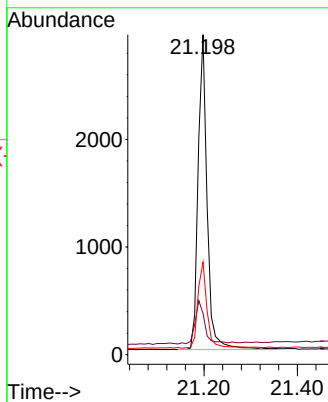
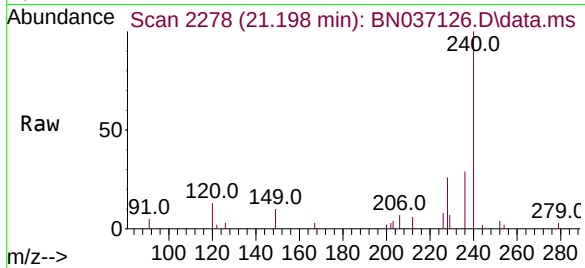




#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.198 min Scan# 21  
Delta R.T. -0.009 min  
Lab File: BN037126.D  
Acq: 29 May 2025 01:35

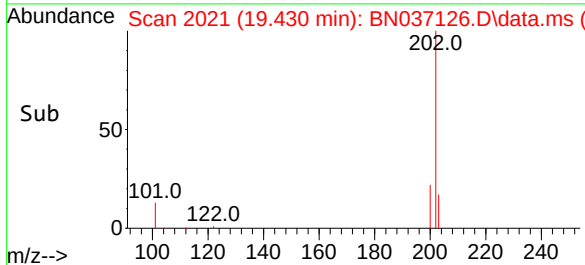
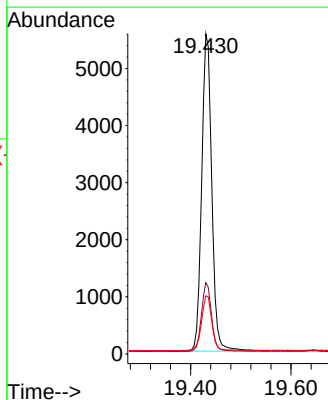
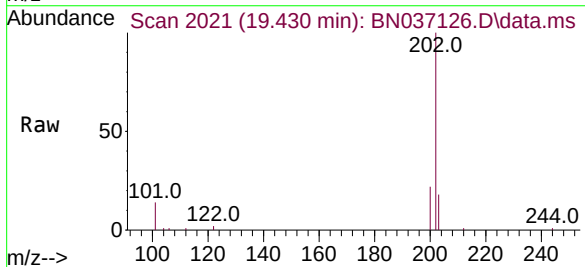
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

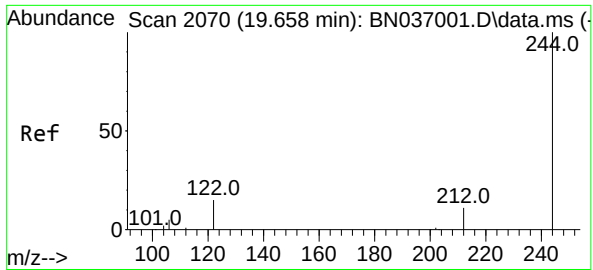
Tgt Ion:240 Resp: 3944  
Ion Ratio Lower Upper  
240 100  
120 12.9 15.1 22.7#  
236 28.9 24.0 36.0



#30  
Pyrene  
Concen: 0.460 ng  
RT: 19.430 min Scan# 2021  
Delta R.T. -0.014 min  
Lab File: BN037126.D  
Acq: 29 May 2025 01:35

Tgt Ion:202 Resp: 7766  
Ion Ratio Lower Upper  
202 100  
200 21.3 17.1 25.7  
203 17.9 14.2 21.4

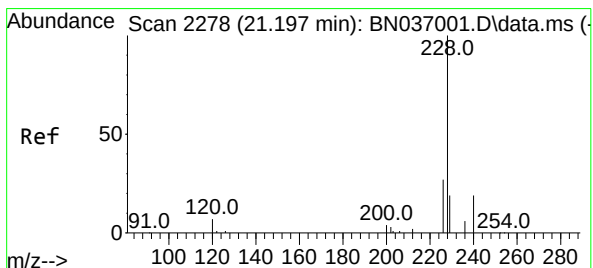
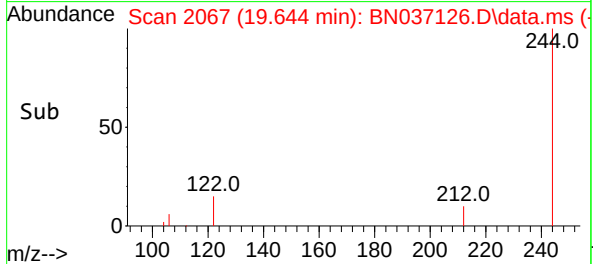
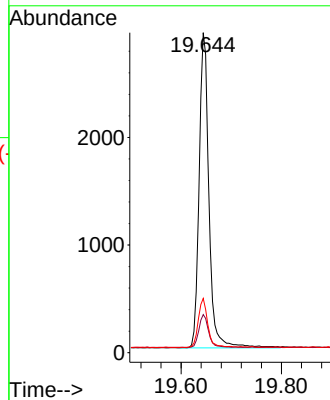
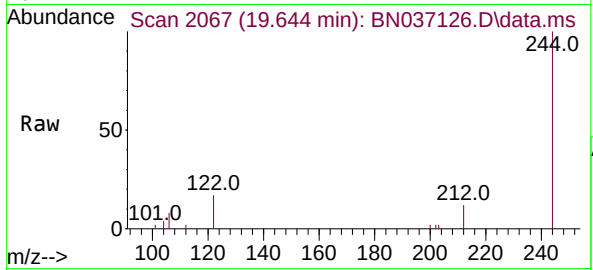




#31  
Terphenyl-d14  
Concen: 0.469 ng  
RT: 19.644 min Scan# 2067  
Delta R.T. -0.014 min  
Lab File: BN037126.D  
Acq: 29 May 2025 01:35

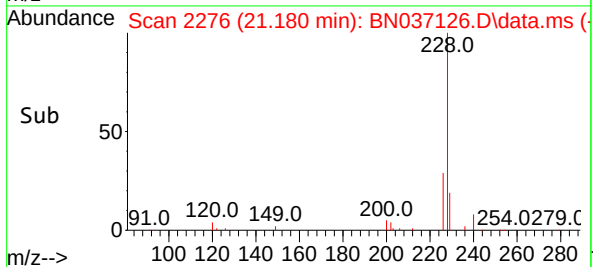
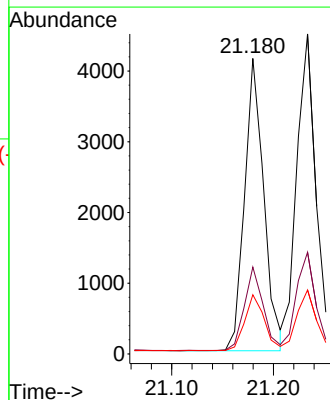
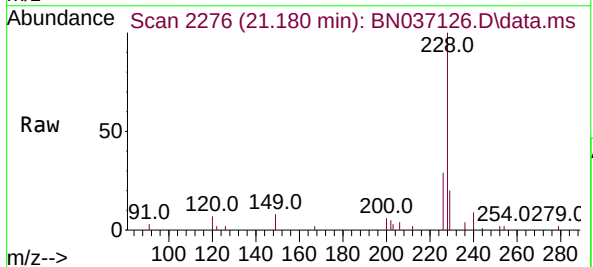
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

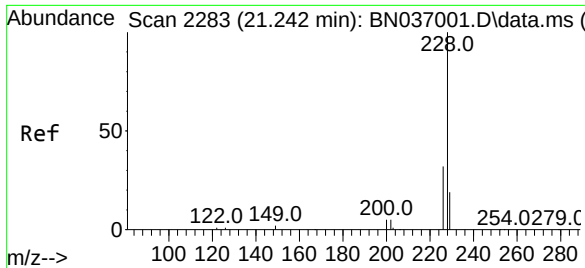
Tgt Ion:244 Resp: 3958  
Ion Ratio Lower Upper  
244 100  
212 11.9 9.7 14.5  
122 17.0 13.4 20.0



#32  
Benzo(a)anthracene  
Concen: 0.365 ng  
RT: 21.180 min Scan# 2276  
Delta R.T. -0.018 min  
Lab File: BN037126.D  
Acq: 29 May 2025 01:35

Tgt Ion:228 Resp: 5419  
Ion Ratio Lower Upper  
228 100  
226 29.4 22.2 33.4  
229 20.0 16.0 24.0

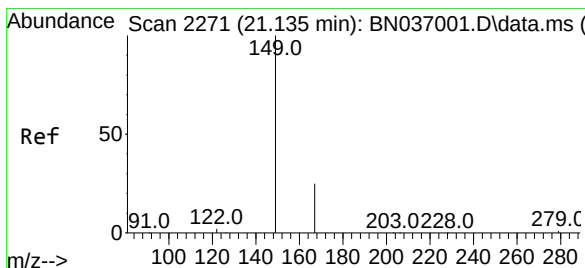
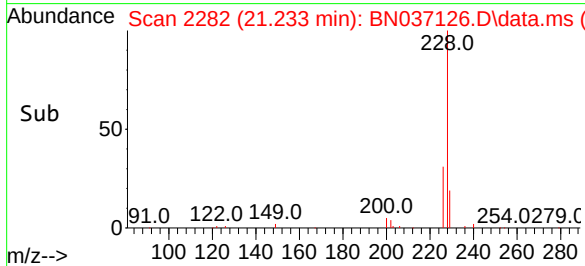
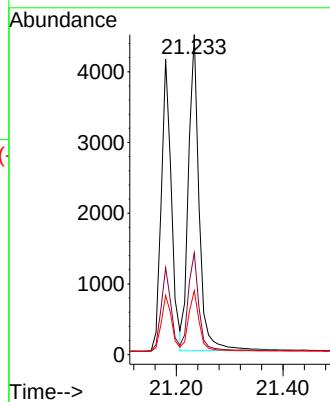
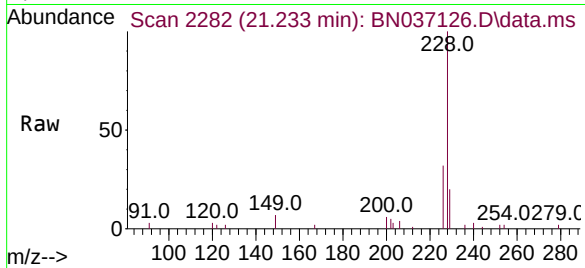




#33  
Chrysene  
Concen: 0.394 ng  
RT: 21.233 min Scan# 211  
Delta R.T. -0.009 min  
Lab File: BN037126.D  
Acq: 29 May 2025 01:35

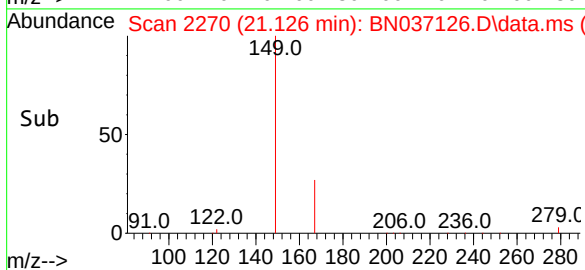
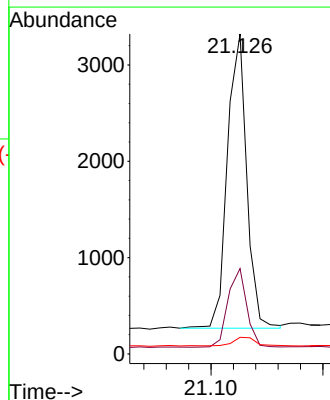
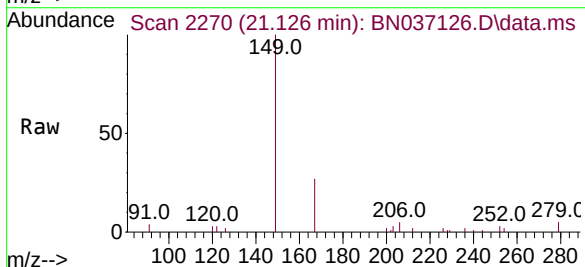
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

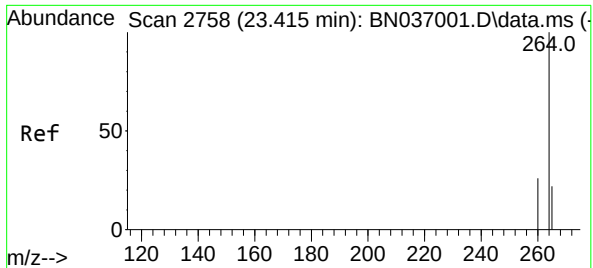
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 31.8  | 26.3  | 39.5  |
| 229     | 20.0  | 16.2  | 24.2  |



#34  
Bis(2-ethylhexyl)phthalate  
Concen: 0.401 ng  
RT: 21.126 min Scan# 2270  
Delta R.T. -0.009 min  
Lab File: BN037126.D  
Acq: 29 May 2025 01:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 26.0  | 20.6  | 30.8  |
| 279     | 3.5   | 2.6   | 3.8   |





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.395 min Scan# 21

Delta R.T. -0.020 min

Lab File: BN037126.D

Acq: 29 May 2025 01:35

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC

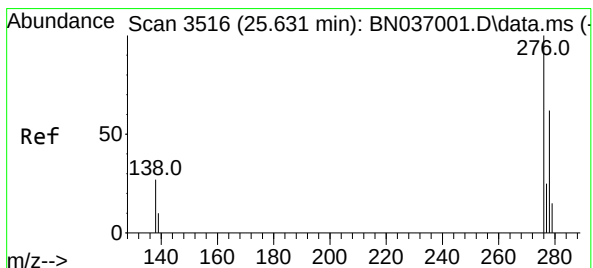
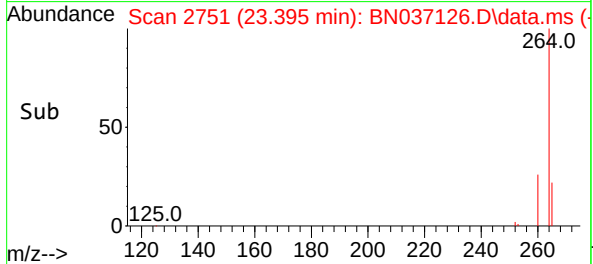
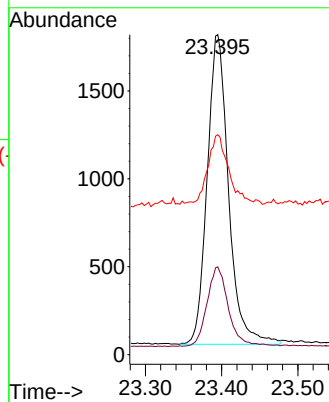
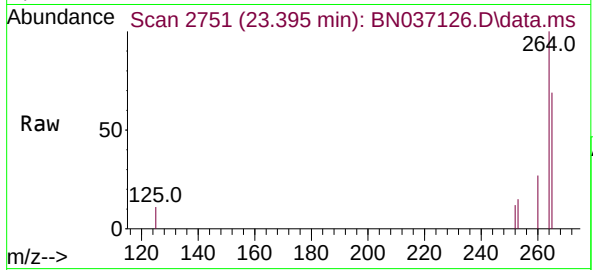
Tgt Ion:264 Resp: 3424

Ion Ratio Lower Upper

264 100

260 27.4 21.9 32.9

265 68.7 51.6 77.4



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.381 ng

RT: 25.599 min Scan# 3505

Delta R.T. -0.032 min

Lab File: BN037126.D

Acq: 29 May 2025 01:35

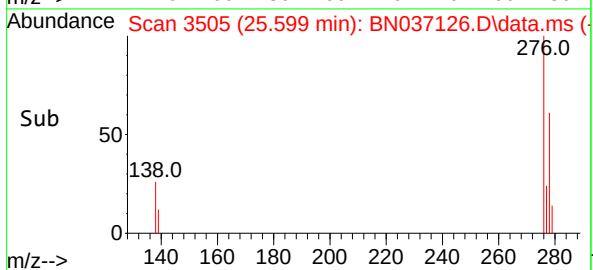
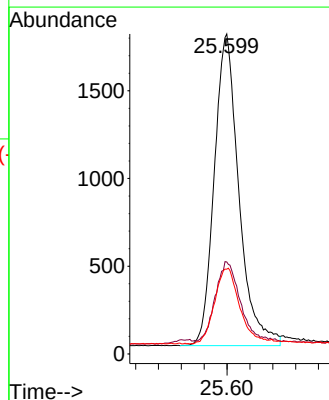
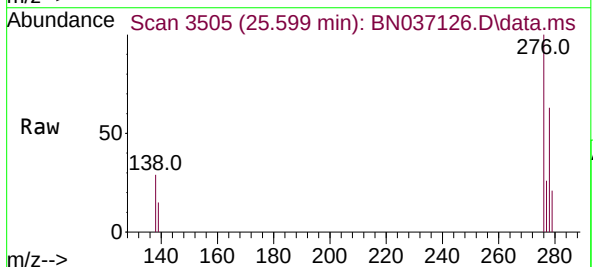
Tgt Ion:276 Resp: 5322

Ion Ratio Lower Upper

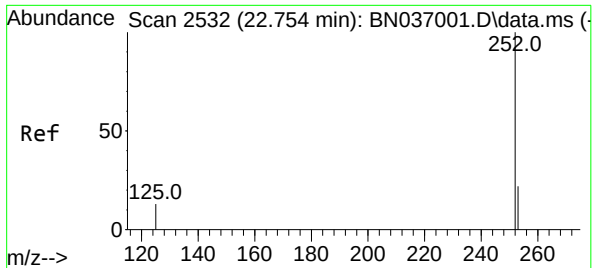
276 100

138 25.7 22.7 34.1

277 24.8 20.0 30.0



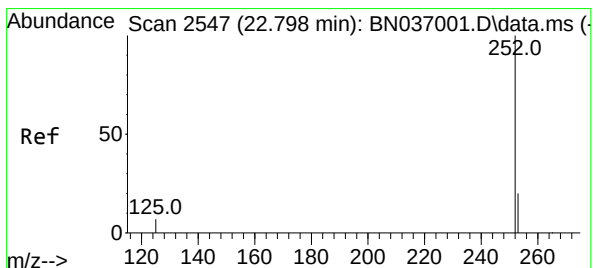
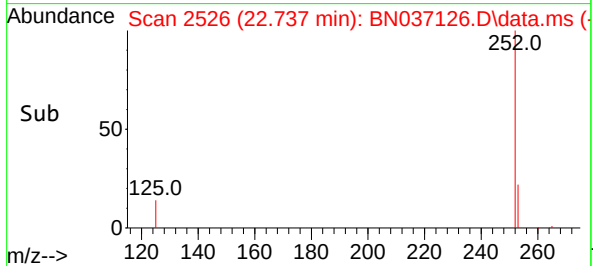
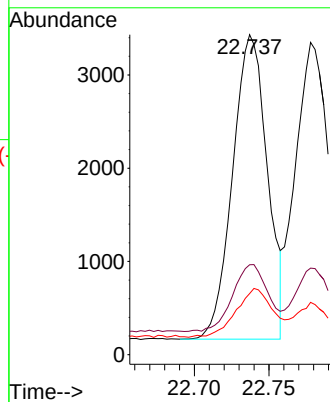
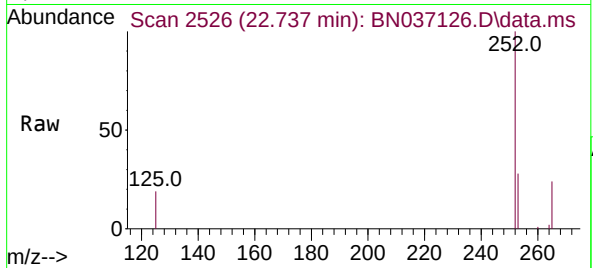




#37  
Benzo(b)fluoranthene  
Concen: 0.371 ng  
RT: 22.737 min Scan# 2526  
Delta R.T. -0.017 min  
Lab File: BN037126.D  
Acq: 29 May 2025 01:35

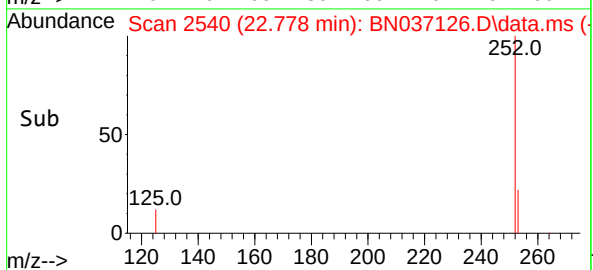
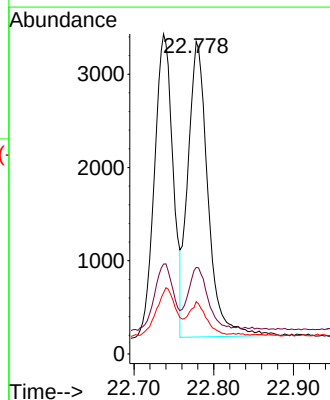
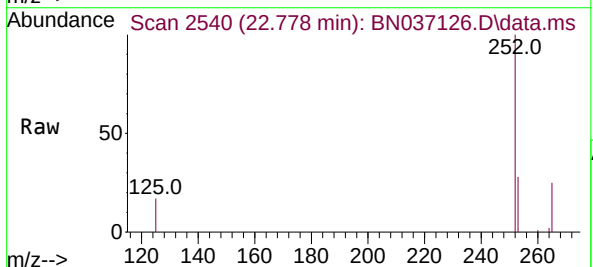
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

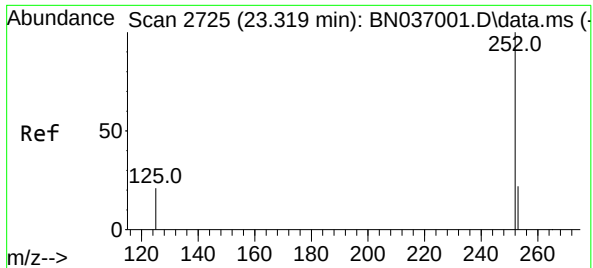
Tgt Ion:252 Resp: 5275  
Ion Ratio Lower Upper  
252 100  
253 28.1 21.8 32.6  
125 19.1 14.6 21.8



#38  
Benzo(k)fluoranthene  
Concen: 0.394 ng  
RT: 22.778 min Scan# 2540  
Delta R.T. -0.020 min  
Lab File: BN037126.D  
Acq: 29 May 2025 01:35

Tgt Ion:252 Resp: 5528  
Ion Ratio Lower Upper  
252 100  
253 27.7 21.4 32.2  
125 16.8 13.0 19.4





#39

Benzo(a)pyrene

Concen: 0.370 ng

RT: 23.298 min Scan# 21

Delta R.T. -0.020 min

Lab File: BN037126.D

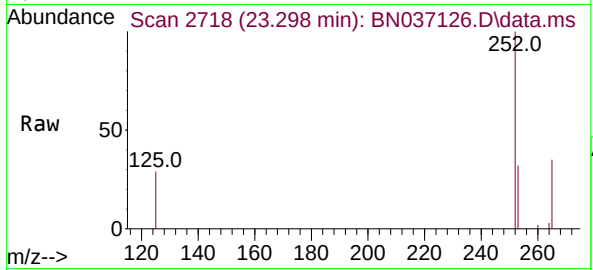
Acq: 29 May 2025 01:35

Instrument :

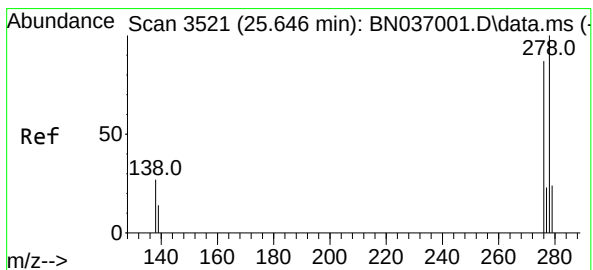
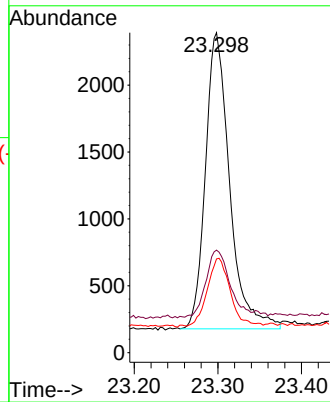
BNA\_N

ClientSampleId :

SSTDCCC0.4EC



|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 252   | Resp: | 4455 |
| Ion Ratio | Lower | Upper |      |
| 252       | 100   |       |      |
| 253       | 32.1  | 23.8  | 35.6 |
| 125       | 29.3  | 21.8  | 32.6 |



#40

Dibenzo(a,h)anthracene

Concen: 0.375 ng

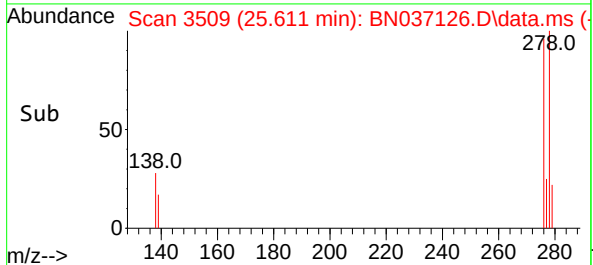
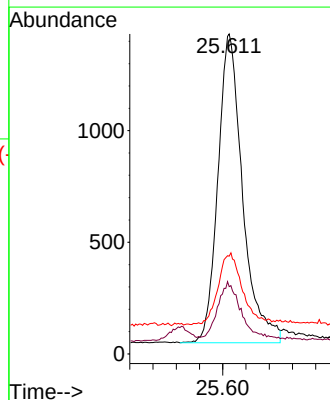
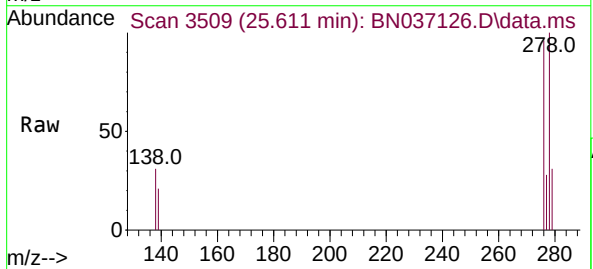
RT: 25.611 min Scan# 3509

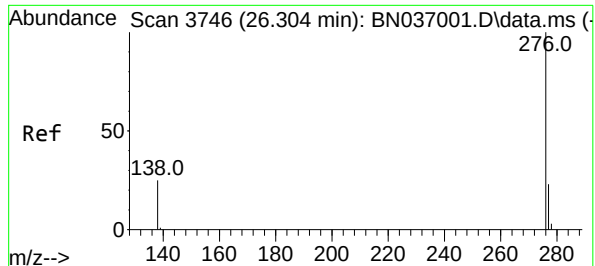
Delta R.T. -0.035 min

Lab File: BN037126.D

Acq: 29 May 2025 01:35

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 278   | Resp: | 4085 |
| Ion Ratio | Lower | Upper |      |
| 278       | 100   |       |      |
| 139       | 21.1  | 17.4  | 26.0 |
| 279       | 30.6  | 24.6  | 37.0 |





#41

Benzo(g,h,i)perylene

Concen: 0.402 ng

RT: 26.263 min Scan# 31

Delta R.T. -0.041 min

Lab File: BN037126.D

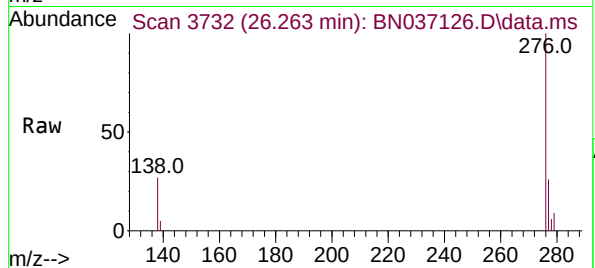
Acq: 29 May 2025 01:35

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC



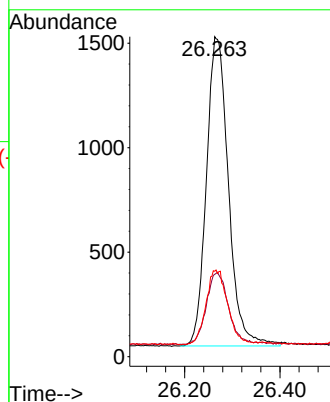
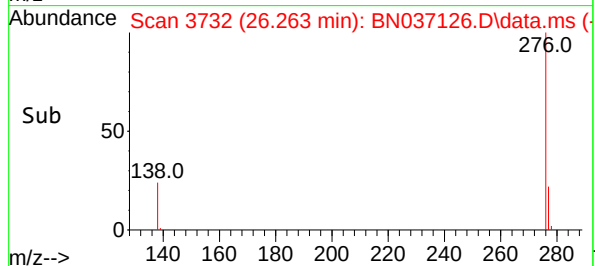
Tgt Ion:276 Resp: 4756

Ion Ratio Lower Upper

276 100

277 25.7 20.2 30.4

138 26.7 22.0 33.0



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN052825\  
 Data File : BN037126.D  
 Acq On : 29 May 2025 01:35  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 LabSampleId :  
 SSTDCCC0.4

Quant Time: May 29 03:44:52 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN051425.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 14 11:26:32 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   | 117   | 0.00     |
| 2       | 1,4-Dioxane                | 0.491 | 0.459 | 6.5   | 105   | 0.00     |
| 3       | n-Nitrosodimethylamine     | 1.054 | 1.063 | -0.9  | 127   | 0.00     |
| 4 S     | 2-Fluorophenol             | 1.048 | 0.946 | 9.7   | 98    | -0.01    |
| 5 S     | Phenol-d6                  | 1.311 | 1.170 | 10.8  | 99    | -0.01    |
| 6       | bis(2-Chloroethyl)ether    | 1.207 | 1.139 | 5.6   | 116   | 0.00     |
| 7 I     | Naphthalene-d8             | 1.000 | 1.000 | 0.0   | 121   | -0.02    |
| 8 S     | Nitrobenzene-d5            | 0.436 | 0.407 | 6.7   | 124   | -0.01    |
| 9       | Naphthalene                | 1.182 | 1.115 | 5.7   | 118   | -0.01    |
| 10      | Hexachlorobutadiene        | 0.248 | 0.253 | -2.0  | 126   | -0.02    |
| 11 SURR | 2-Methylnaphthalene-d10    | 0.563 | 0.577 | -2.5  | 127   | 0.00     |
| 12      | 2-Methylnaphthalene        | 0.760 | 0.711 | 6.4   | 117   | -0.02    |
| 13 I    | Acenaphthene-d10           | 1.000 | 1.000 | 0.0   | 125   | -0.01    |
| 14 S    | 2,4,6-Tribromophenol       | 0.176 | 0.153 | 13.1  | 108   | -0.01    |
| 15 S    | 2-Fluorobiphenyl           | 1.832 | 1.641 | 10.4  | 108   | -0.02    |
| 16      | Acenaphthylene             | 1.947 | 1.778 | 8.7   | 117   | -0.02    |
| 17      | Acenaphthene               | 1.272 | 1.175 | 7.6   | 118   | -0.01    |
| 18      | Fluorene                   | 1.669 | 1.533 | 8.1   | 117   | -0.01    |
| 19 I    | Phenanthrene-d10           | 1.000 | 1.000 | 0.0   | 117   | -0.01    |
| 20      | 4,6-Dinitro-2-methylphenol | 0.090 | 0.079 | 12.2  | 127   | -0.01    |
| 21      | 4-Bromophenyl-phenylether  | 0.253 | 0.251 | 0.8   | 118   | -0.01    |
| 22      | Hexachlorobenzene          | 0.270 | 0.286 | -5.9  | 119   | -0.01    |
| 23      | Atrazine                   | 0.220 | 0.207 | 5.9   | 115   | -0.01    |
| 24      | Pentachlorophenol          | 0.149 | 0.128 | 14.1  | 106   | -0.01    |
| 25      | Phenanthrene               | 1.307 | 1.238 | 5.3   | 112   | -0.01    |
| 26      | Anthracene                 | 1.190 | 1.082 | 9.1   | 109   | -0.01    |
| 27 SURR | Fluoranthene-d10           | 1.097 | 1.019 | 7.1   | 111   | 0.00     |
| 28      | Fluoranthene               | 1.562 | 1.324 | 15.2  | 103   | -0.01    |
| 29 I    | Chrysene-d12               | 1.000 | 1.000 | 0.0   | 88    | 0.00     |
| 30      | Pyrene                     | 1.711 | 1.969 | -15.1 | 101   | -0.01    |
| 31 S    | Terphenyl-d14              | 0.856 | 1.004 | -17.3 | 102   | -0.01    |
| 32      | Benzo(a)anthracene         | 1.506 | 1.374 | 8.8   | 82    | -0.02    |
| 33      | Chrysene                   | 1.593 | 1.567 | 1.6   | 86    | 0.00     |
| 34      | Bis(2-ethylhexyl)phthalate | 0.927 | 0.930 | -0.3  | 91    | 0.00     |
| 35 I    | Perylene-d12               | 1.000 | 1.000 | 0.0   | 76    | -0.02    |
| 36      | Indeno(1,2,3-cd)pyrene     | 1.634 | 1.554 | 4.9   | 72    | -0.03    |
| 37      | Benzo(b)fluoranthene       | 1.659 | 1.541 | 7.1   | 73    | -0.02    |
| 38      | Benzo(k)fluoranthene       | 1.639 | 1.614 | 1.5   | 74    | -0.02    |
| 39 C    | Benzo(a)pyrene             | 1.407 | 1.301 | 7.5   | 71    | -0.02    |
| 40      | Dibenzo(a,h)anthracene     | 1.272 | 1.193 | 6.2   | 71    | -0.03    |
| 41      | Benzo(g,h,i)perylene       | 1.383 | 1.389 | -0.4  | 74    | -0.04    |

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN052825\  
 Data File : BN037126.D  
 Acq On : 29 May 2025 01:35  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 LabSampleId :  
 SSTDCCC0.4

Quant Time: May 29 03:44:52 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN051425.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 14 11:26:32 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   | 117   | 0.00     |
| 2       | 1,4-Dioxane                | 0.400  | 0.374 | 6.5   | 105   | 0.00     |
| 3       | n-Nitrosodimethylamine     | 0.400  | 0.403 | -0.8  | 127   | 0.00     |
| 4 S     | 2-Fluorophenol             | 0.400  | 0.361 | 9.8   | 98    | -0.01    |
| 5 S     | Phenol-d6                  | 0.400  | 0.357 | 10.8  | 99    | -0.01    |
| 6       | bis(2-Chloroethyl)ether    | 0.400  | 0.377 | 5.8   | 116   | 0.00     |
| 7 I     | Naphthalene-d8             | 0.400  | 0.400 | 0.0   | 121   | -0.02    |
| 8 S     | Nitrobenzene-d5            | 0.400  | 0.374 | 6.5   | 124   | -0.01    |
| 9       | Naphthalene                | 0.400  | 0.377 | 5.8   | 118   | -0.01    |
| 10      | Hexachlorobutadiene        | 0.400  | 0.408 | -2.0  | 126   | -0.02    |
| 11 SURR | 2-Methylnaphthalene-d10    | 0.400  | 0.410 | -2.5  | 127   | 0.00     |
| 12      | 2-Methylnaphthalene        | 0.400  | 0.374 | 6.5   | 117   | -0.02    |
| 13 I    | Acenaphthene-d10           | 0.400  | 0.400 | 0.0   | 125   | -0.01    |
| 14 S    | 2,4,6-Tribromophenol       | 0.400  | 0.349 | 12.8  | 108   | -0.01    |
| 15 S    | 2-Fluorobiphenyl           | 0.400  | 0.358 | 10.5  | 108   | -0.02    |
| 16      | Acenaphthylene             | 0.400  | 0.365 | 8.8   | 117   | -0.02    |
| 17      | Acenaphthene               | 0.400  | 0.369 | 7.8   | 118   | -0.01    |
| 18      | Fluorene                   | 0.400  | 0.367 | 8.3   | 117   | -0.01    |
| 19 I    | Phenanthrene-d10           | 0.400  | 0.400 | 0.0   | 117   | -0.01    |
| 20      | 4,6-Dinitro-2-methylphenol | 0.400  | 0.410 | -2.5  | 127   | -0.01    |
| 21      | 4-Bromophenyl-phenylether  | 0.400  | 0.398 | 0.5   | 118   | -0.01    |
| 22      | Hexachlorobenzene          | 0.400  | 0.423 | -5.7  | 119   | -0.01    |
| 23      | Atrazine                   | 0.400  | 0.375 | 6.3   | 115   | -0.01    |
| 24      | Pentachlorophenol          | 0.400  | 0.342 | 14.5  | 106   | -0.01    |
| 25      | Phenanthrene               | 0.400  | 0.379 | 5.3   | 112   | -0.01    |
| 26      | Anthracene                 | 0.400  | 0.364 | 9.0   | 109   | -0.01    |
| 27 SURR | Fluoranthene-d10           | 0.400  | 0.372 | 7.0   | 111   | 0.00     |
| 28      | Fluoranthene               | 0.400  | 0.339 | 15.3  | 103   | -0.01    |
| 29 I    | Chrysene-d12               | 0.400  | 0.400 | 0.0   | 88    | 0.00     |
| 30      | Pyrene                     | 0.400  | 0.460 | -15.0 | 101   | -0.01    |
| 31 S    | Terphenyl-d14              | 0.400  | 0.469 | -17.2 | 102   | -0.01    |
| 32      | Benzo(a)anthracene         | 0.400  | 0.365 | 8.8   | 82    | -0.02    |
| 33      | Chrysene                   | 0.400  | 0.394 | 1.5   | 86    | 0.00     |
| 34      | Bis(2-ethylhexyl)phthalate | 0.400  | 0.401 | -0.3  | 91    | 0.00     |
| 35 I    | Perylene-d12               | 0.400  | 0.400 | 0.0   | 76    | -0.02    |
| 36      | Indeno(1,2,3-cd)pyrene     | 0.400  | 0.381 | 4.8   | 72    | -0.03    |
| 37      | Benzo(b)fluoranthene       | 0.400  | 0.371 | 7.3   | 73    | -0.02    |
| 38      | Benzo(k)fluoranthene       | 0.400  | 0.394 | 1.5   | 74    | -0.02    |
| 39 C    | Benzo(a)pyrene             | 0.400  | 0.370 | 7.5   | 71    | -0.02    |
| 40      | Dibenzo(a,h)anthracene     | 0.400  | 0.375 | 6.3   | 71    | -0.03    |
| 41      | Benzo(g,h,i)perylene       | 0.400  | 0.402 | -0.5  | 74    | -0.04    |

(#) = Out of Range

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



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

7C

## SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2118 SAS No.: Q2118 SDG No.: Q2118

Instrument ID: BNA\_N Calibration Date/Time: 05/29/2025 10:07

Lab File ID: BN037128.D Init. Calib. Date(s): 05/13/2025 05/13/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 17:41 21:17

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

| COMPOUND                | RRF   | RRF0.4 | MIN<br>RRF | %D    | MAX%D |
|-------------------------|-------|--------|------------|-------|-------|
| 2-Methylnaphthalene-d10 | 0.563 | 0.577  |            | 2.5   | 20.0  |
| Fluoranthene-d10        | 1.097 | 0.990  |            | -9.8  | 20.0  |
| 2-Fluorophenol          | 1.048 | 0.941  |            | -10.2 | 20.0  |
| Phenol-d6               | 1.311 | 1.159  |            | -11.6 | 20.0  |
| Nitrobenzene-d5         | 0.436 | 0.408  |            | -6.4  | 20.0  |
| 2-Fluorobiphenyl        | 1.832 | 1.798  |            | -1.9  | 20.0  |
| 2,4,6-Tribromophenol    | 0.176 | 0.142  |            | -19.3 | 20.0  |
| Terphenyl-d14           | 0.856 | 0.946  |            | 10.5  | 20.0  |
| 1,4-Dioxane             | 0.491 | 0.467  |            | -4.9  | 20.0  |

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN052925\  
 Data File : BN037128.D  
 Acq On : 29 May 2025 10:07  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4

Quant Time: May 29 11:46:14 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN051425.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 14 11:26:32 2025  
 Response via : Initial Calibration

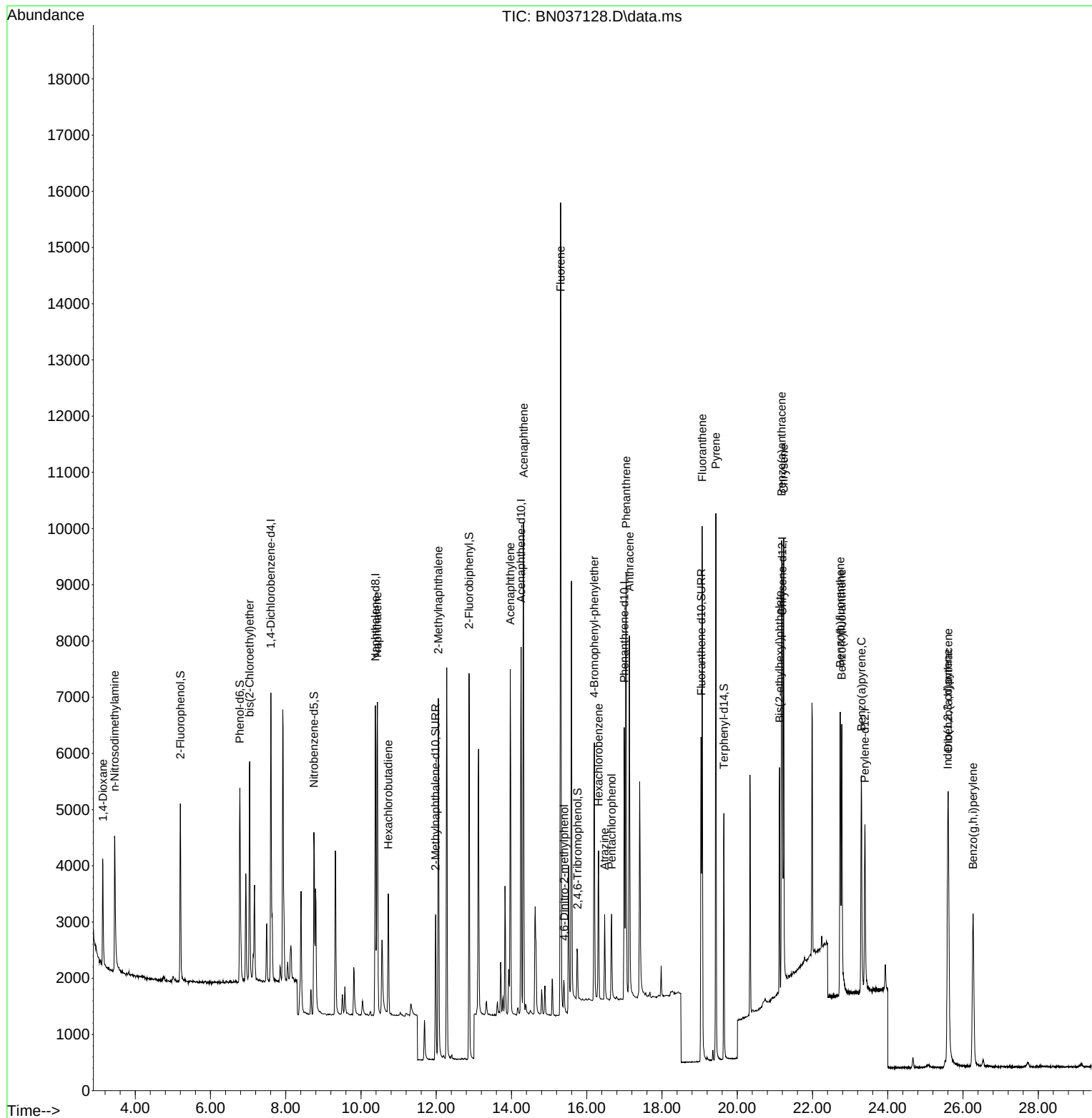
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.604  | 152  | 2387     | 0.400 | ng    | -0.01    |
| 7) Naphthalene-d8             | 10.383 | 136  | 6582     | 0.400 | ng    | -0.02    |
| 13) Acenaphthene-d10          | 14.256 | 164  | 3682     | 0.400 | ng    | -0.01    |
| 19) Phenanthrene-d10          | 16.996 | 188  | 6656     | 0.400 | ng    | -0.01    |
| 29) Chrysene-d12              | 21.198 | 240  | 4500     | 0.400 | ng    | # 0.00   |
| 35) Perylene-d12              | 23.392 | 264  | 3905     | 0.400 | ng    | -0.02    |
|                               |        |      |          |       |       |          |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.199  | 112  | 2247     | 0.359 | ng    | -0.01    |
| 5) Phenol-d6                  | 6.781  | 99   | 2766     | 0.353 | ng    | -0.01    |
| 8) Nitrobenzene-d5            | 8.749  | 82   | 2683     | 0.374 | ng    | -0.02    |
| 11) 2-Methylnaphthalene-d10   | 11.981 | 152  | 3798     | 0.410 | ng    | -0.02    |
| 14) 2,4,6-Tribromophenol      | 15.755 | 330  | 522      | 0.323 | ng    | -0.01    |
| 15) 2-Fluorobiphenyl          | 12.873 | 172  | 6620     | 0.393 | ng    | -0.02    |
| 27) Fluoranthene-d10          | 19.040 | 212  | 6590     | 0.361 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.644 | 244  | 4257     | 0.442 | ng    | -0.01    |
|                               |        |      |          |       |       |          |
| Target Compounds              |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.141  | 88   | 1115     | 0.381 | ng    | 95       |
| 3) n-Nitrosodimethylamine     | 3.451  | 42   | 2397     | 0.381 | ng    | # 91     |
| 6) bis(2-Chloroethyl)ether    | 7.041  | 93   | 2805     | 0.389 | ng    | 98       |
| 9) Naphthalene                | 10.436 | 128  | 7303     | 0.375 | ng    | 98       |
| 10) Hexachlorobutadiene       | 10.725 | 225  | 1617     | 0.396 | ng    | # 100    |
| 12) 2-Methylnaphthalene       | 12.057 | 142  | 4625     | 0.370 | ng    | 99       |
| 16) Acenaphthylene            | 13.967 | 152  | 6514     | 0.363 | ng    | 100      |
| 17) Acenaphthene              | 14.320 | 154  | 4370     | 0.373 | ng    | 99       |
| 18) Fluorene                  | 15.304 | 166  | 5520     | 0.359 | ng    | 100      |
| 20) 4,6-Dinitro-2-methylph... | 15.400 | 198  | 491      | 0.384 | ng    | 92       |
| 21) 4-Bromophenyl-phenylether | 16.202 | 248  | 1638     | 0.390 | ng    | 96       |
| 22) Hexachlorobenzene         | 16.314 | 284  | 1860     | 0.413 | ng    | 98       |
| 23) Atrazine                  | 16.475 | 200  | 1309     | 0.357 | ng    | 97       |
| 24) Pentachlorophenol         | 16.661 | 266  | 836      | 0.337 | ng    | 98       |
| 25) Phenanthrene              | 17.046 | 178  | 8191     | 0.377 | ng    | 99       |
| 26) Anthracene                | 17.133 | 178  | 7026     | 0.355 | ng    | 99       |
| 28) Fluoranthene              | 19.068 | 202  | 8637     | 0.332 | ng    | 99       |
| 30) Pyrene                    | 19.430 | 202  | 8591     | 0.446 | ng    | 99       |
| 32) Benzo(a)anthracene        | 21.180 | 228  | 6109     | 0.361 | ng    | 99       |
| 33) Chrysene                  | 21.233 | 228  | 6811     | 0.380 | ng    | 97       |
| 34) Bis(2-ethylhexyl)phtha... | 21.126 | 149  | 3761     | 0.361 | ng    | 99       |
| 36) Indeno(1,2,3-cd)pyrene    | 25.596 | 276  | 6266     | 0.393 | ng    | 97       |
| 37) Benzo(b)fluoranthene      | 22.737 | 252  | 6045     | 0.373 | ng    | 97       |
| 38) Benzo(k)fluoranthene      | 22.778 | 252  | 6392     | 0.400 | ng    | 97       |
| 39) Benzo(a)pyrene            | 23.298 | 252  | 5247     | 0.382 | ng    | # 93     |
| 40) Dibenzo(a,h)anthracene    | 25.608 | 278  | 4793     | 0.386 | ng    | 99       |
| 41) Benzo(g,h,i)perylene      | 26.266 | 276  | 5529     | 0.410 | ng    | 99       |
| -----                         |        |      |          |       |       |          |

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

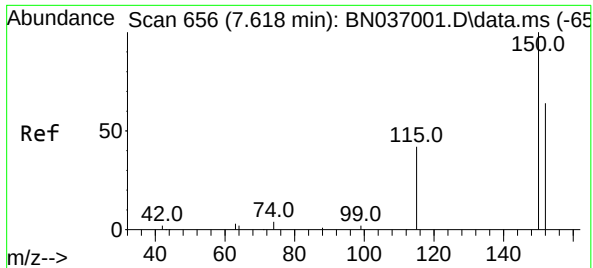
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN052925\  
Data File : BN037128.D  
Acq On : 29 May 2025 10:07  
Operator : RC/JU  
Sample : SSTDCCC0.4  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

Quant Time: May 29 11:46:14 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN051425.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed May 14 11:26:32 2025  
Response via : Initial Calibration



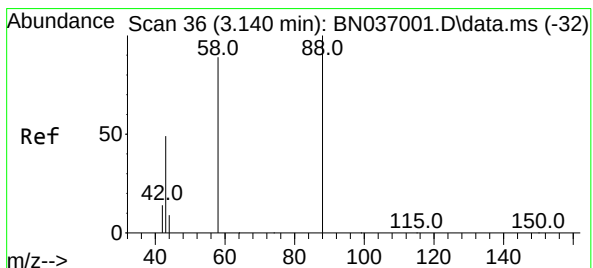
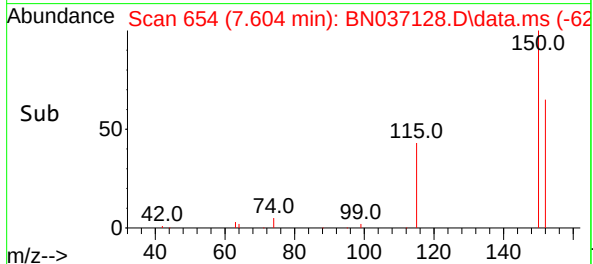
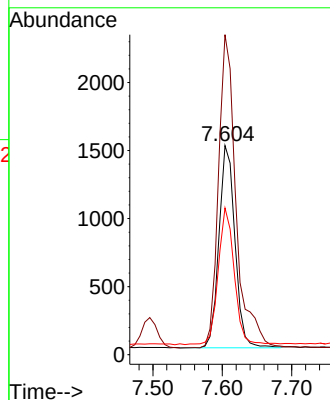
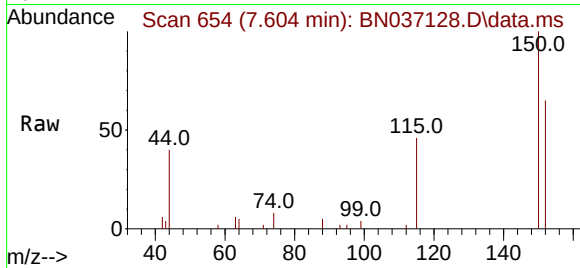




#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.604 min Scan# 61  
Delta R.T. -0.014 min  
Lab File: BN037128.D  
Acq: 29 May 2025 10:07

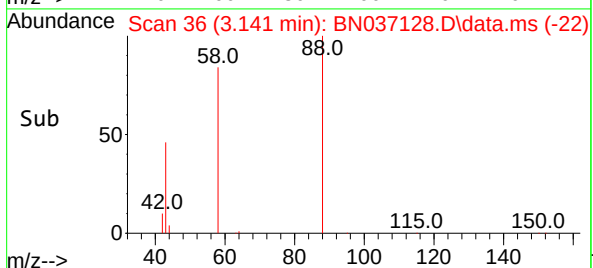
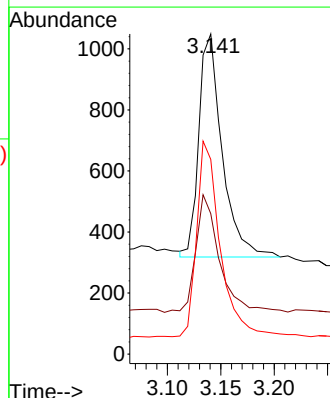
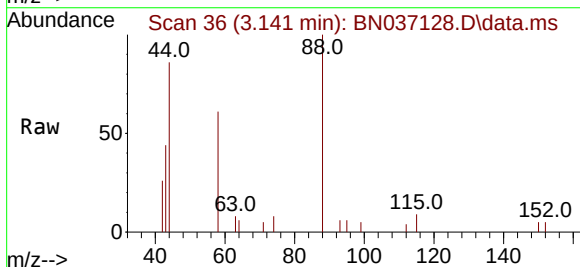
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

Tgt Ion:152 Resp: 2387  
Ion Ratio Lower Upper  
152 100  
150 153.0 123.9 185.9  
115 70.1 55.8 83.8

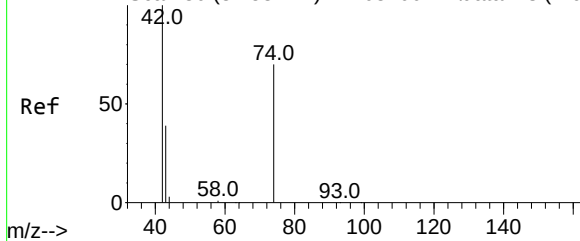


#2  
1,4-Dioxane  
Concen: 0.381 ng  
RT: 3.141 min Scan# 36  
Delta R.T. 0.001 min  
Lab File: BN037128.D  
Acq: 29 May 2025 10:07

Tgt Ion: 88 Resp: 1115  
Ion Ratio Lower Upper  
88 100  
43 53.2 37.4 56.0  
58 88.6 68.8 103.2



Abundance Scan 80 (3.458 min): BN037001.D\data.ms (-76)



#3

n-Nitrosodimethylamine

Concen: 0.381 ng

RT: 3.451 min Scan# 79

Delta R.T. -0.007 min

Lab File: BN037128.D

Acq: 29 May 2025 10:07

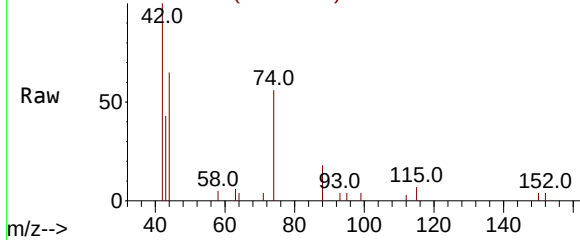
Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

Abundance Scan 79 (3.451 min): BN037128.D\data.ms



Tgt Ion: 42 Resp: 2397

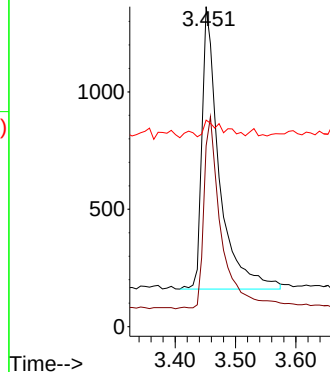
Ion Ratio Lower Upper

42 100

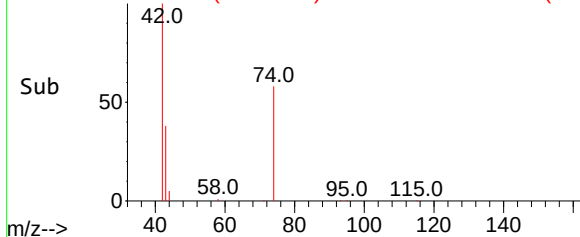
74 69.0 59.8 89.6

44 6.8 11.9 17.9#

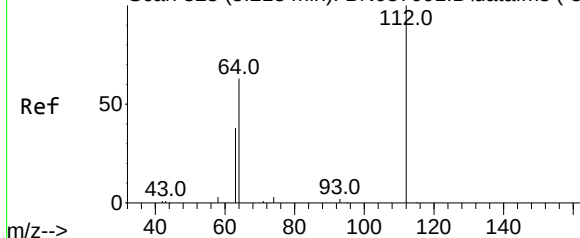
Abundance



Abundance Scan 79 (3.451 min): BN037128.D\data.ms (-59)



Abundance Scan 323 (5.213 min): BN037001.D\data.ms (-31)



#4

2-Fluorophenol

Concen: 0.359 ng

RT: 5.199 min Scan# 321

Delta R.T. -0.014 min

Lab File: BN037128.D

Acq: 29 May 2025 10:07

Tgt Ion: 112 Resp: 2247

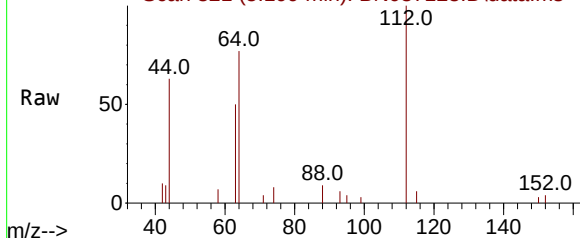
Ion Ratio Lower Upper

112 100

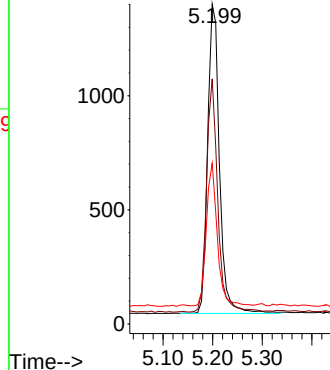
64 71.3 55.7 83.5

63 42.6 34.6 51.8

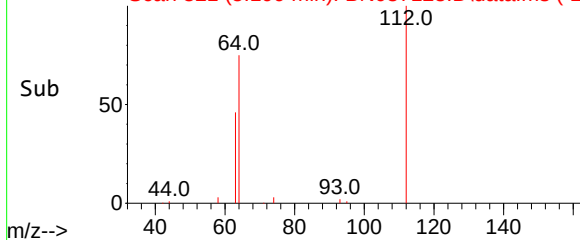
Abundance Scan 321 (5.199 min): BN037128.D\data.ms

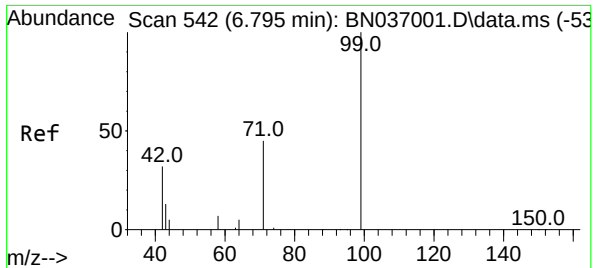


Abundance



Abundance Scan 321 (5.199 min): BN037128.D\data.ms (-29)

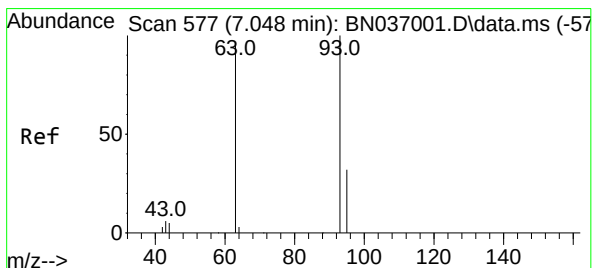
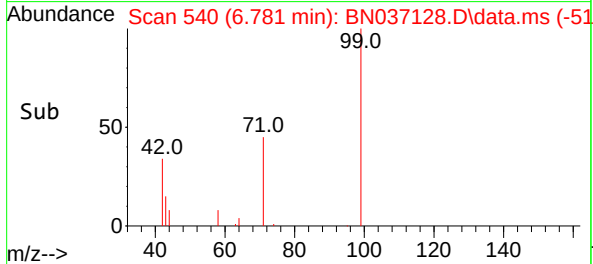
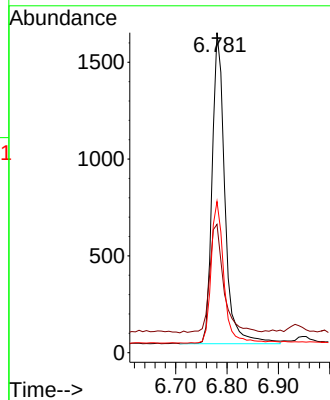
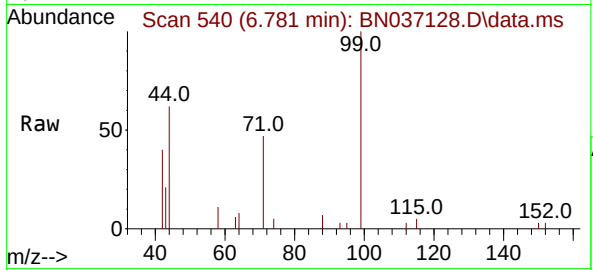




#5  
Phenol-d6  
Concen: 0.353 ng  
RT: 6.781 min Scan# 54  
Delta R.T. -0.014 min  
Lab File: BN037128.D  
Acq: 29 May 2025 10:07

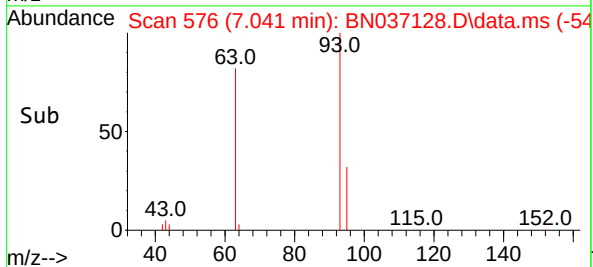
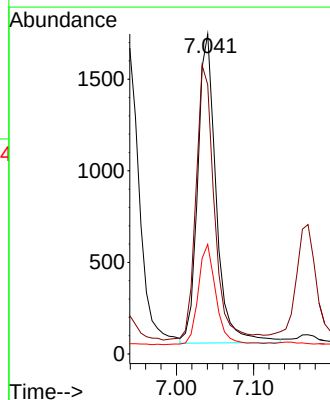
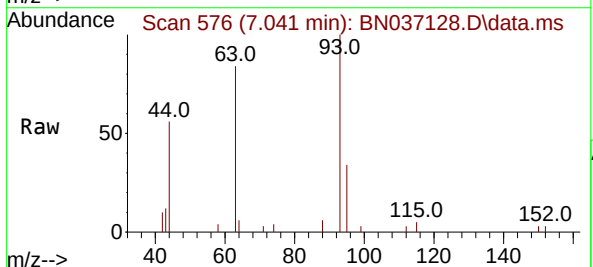
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

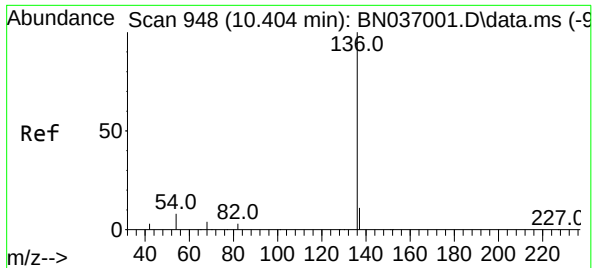
Tgt Ion: 99 Resp: 2766  
Ion Ratio Lower Upper  
99 100  
42 39.0 29.3 43.9  
71 45.3 35.7 53.5



#6  
bis(2-Chloroethyl)ether  
Concen: 0.389 ng  
RT: 7.041 min Scan# 576  
Delta R.T. -0.007 min  
Lab File: BN037128.D  
Acq: 29 May 2025 10:07

Tgt Ion: 93 Resp: 2805  
Ion Ratio Lower Upper  
93 100  
63 89.1 70.1 105.1  
95 31.4 26.2 39.2

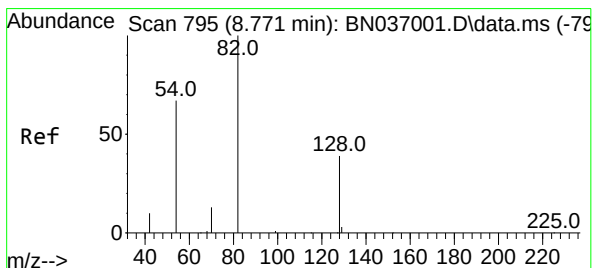
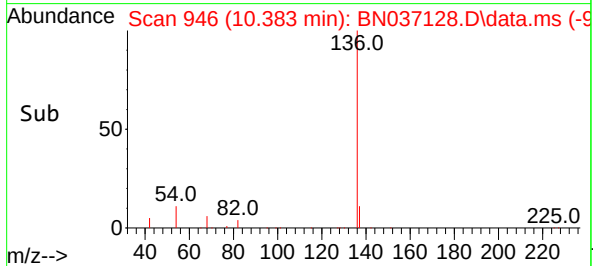
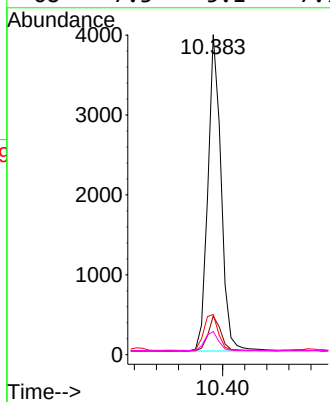
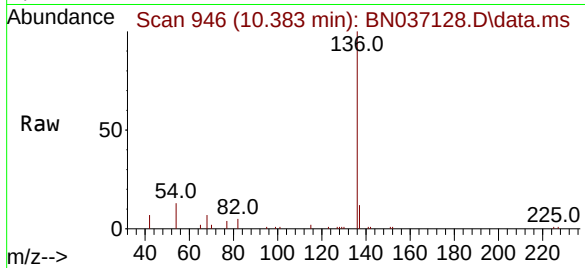




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.383 min Scan# 948  
Delta R.T. -0.021 min  
Lab File: BN037128.D  
Acq: 29 May 2025 10:07

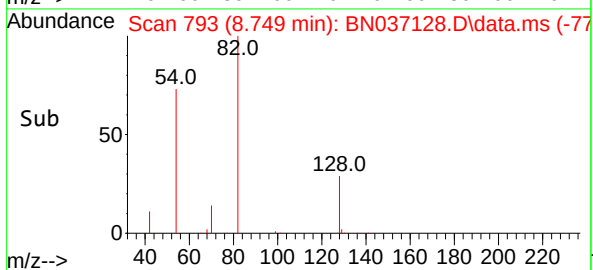
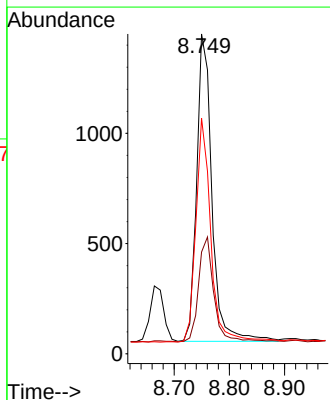
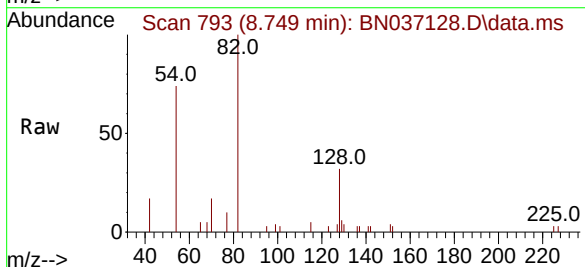
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

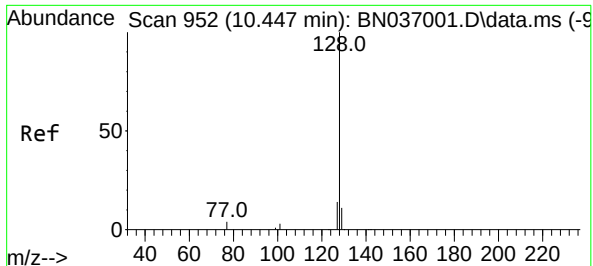
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 6582  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 12.1  | 10.4  | 15.6  |
| 54       | 12.6  | 8.5   | 12.7  |
| 68       | 7.3   | 5.1   | 7.7   |



#8  
Nitrobenzene-d5  
Concen: 0.374 ng  
RT: 8.749 min Scan# 793  
Delta R.T. -0.021 min  
Lab File: BN037128.D  
Acq: 29 May 2025 10:07

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 2683  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 31.8  | 34.0  | 51.0# |
| 54       | 73.7  | 55.0  | 82.4  |

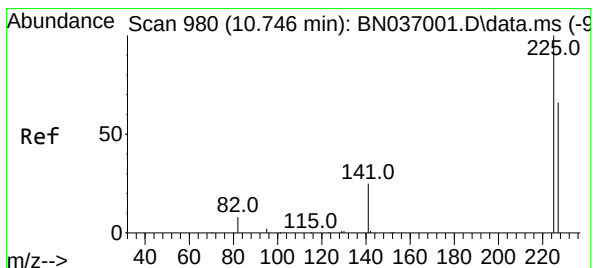
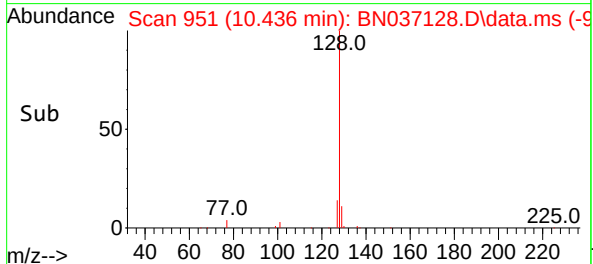
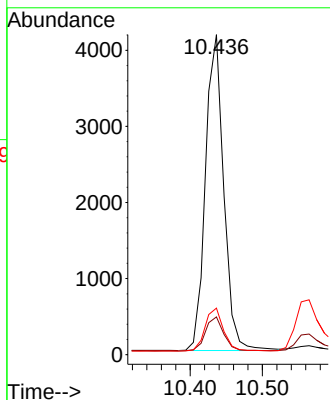
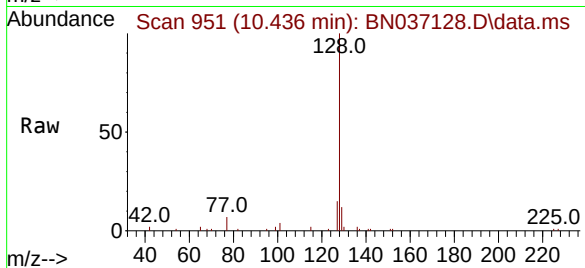




#9  
Naphthalene  
Concen: 0.375 ng  
RT: 10.436 min Scan# 91  
Delta R.T. -0.011 min  
Lab File: BN037128.D  
Acq: 29 May 2025 10:07

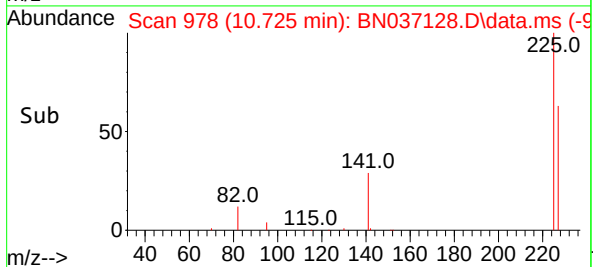
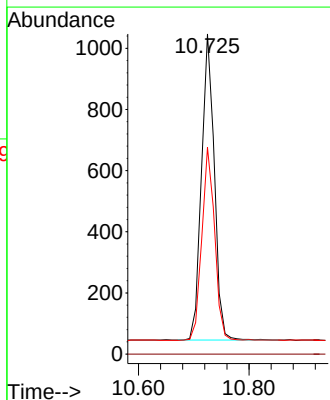
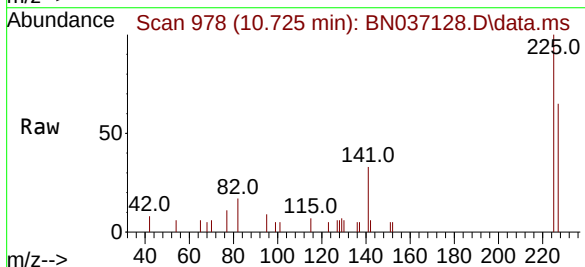
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

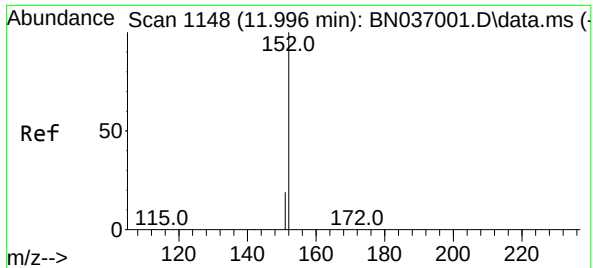
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 11.8  | 9.7   | 14.5  |
| 127     | 14.6  | 12.4  | 18.6  |



#10  
Hexachlorobutadiene  
Concen: 0.396 ng  
RT: 10.725 min Scan# 978  
Delta R.T. -0.021 min  
Lab File: BN037128.D  
Acq: 29 May 2025 10:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 0.0   | 0.0   | 0.0   |
| 227     | 63.3  | 50.9  | 76.3  |

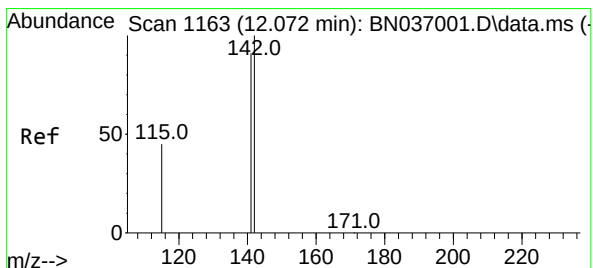
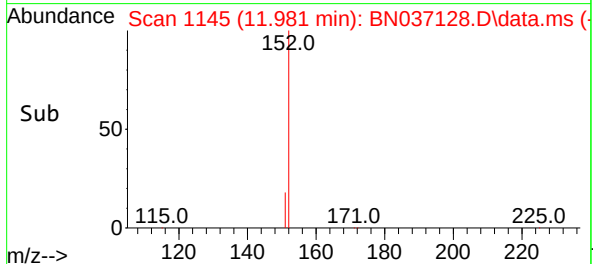
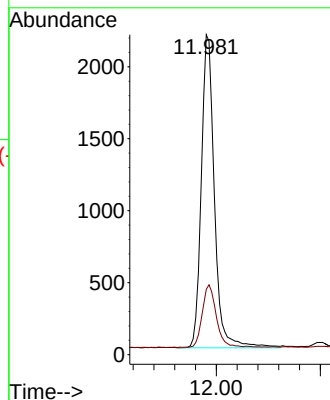
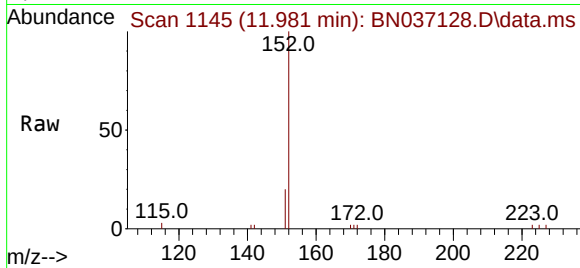




#11  
2-Methylnaphthalene-d10  
Concen: 0.410 ng  
RT: 11.981 min Scan# 1145  
Delta R.T. -0.015 min  
Lab File: BN037128.D  
Acq: 29 May 2025 10:07

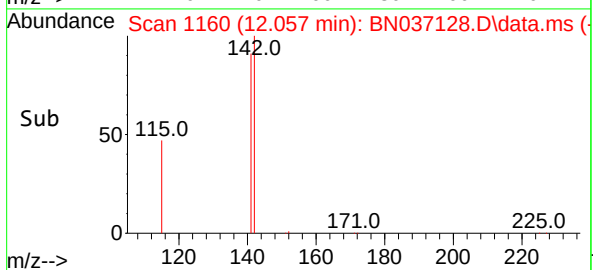
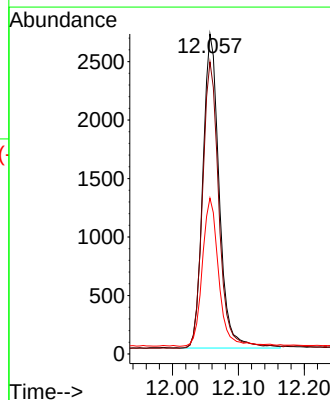
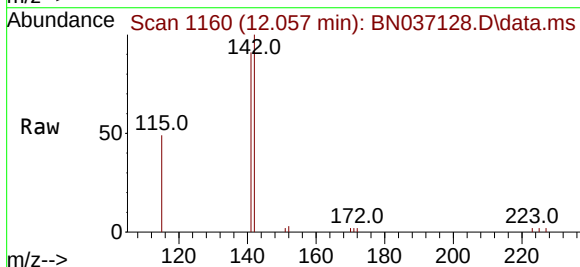
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

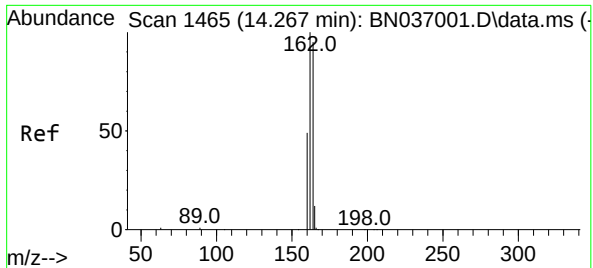
Tgt Ion:152 Resp: 3798  
Ion Ratio Lower Upper  
152 100  
151 21.4 17.5 26.3



#12  
2-Methylnaphthalene  
Concen: 0.370 ng  
RT: 12.057 min Scan# 1160  
Delta R.T. -0.015 min  
Lab File: BN037128.D  
Acq: 29 May 2025 10:07

Tgt Ion:142 Resp: 4625  
Ion Ratio Lower Upper  
142 100  
141 91.3 73.3 109.9  
115 48.7 38.4 57.6

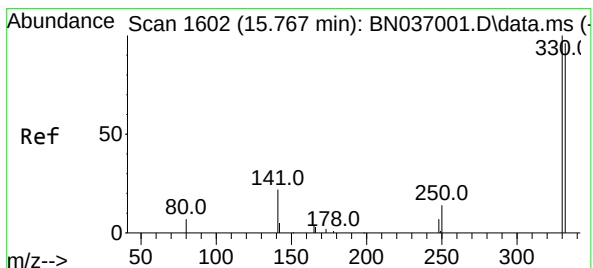
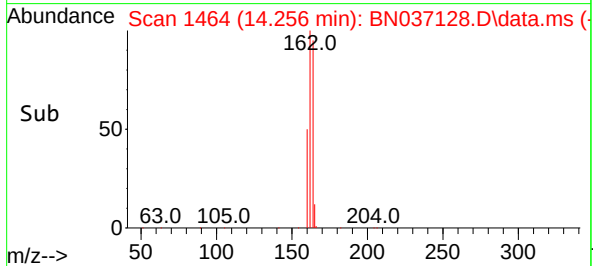
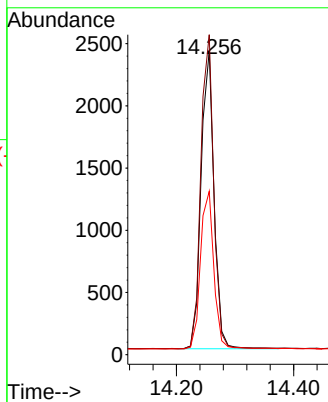
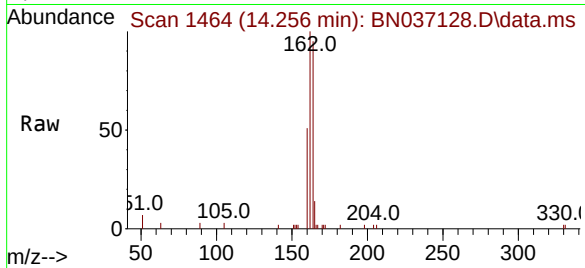




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.256 min Scan# 1464  
Delta R.T. -0.011 min  
Lab File: BN037128.D  
Acq: 29 May 2025 10:07

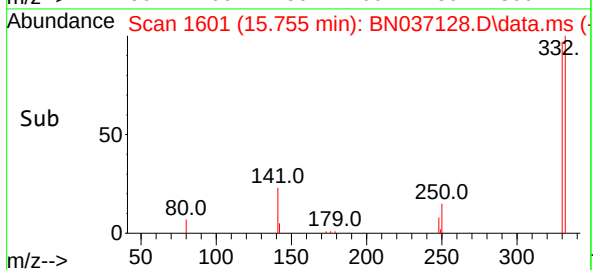
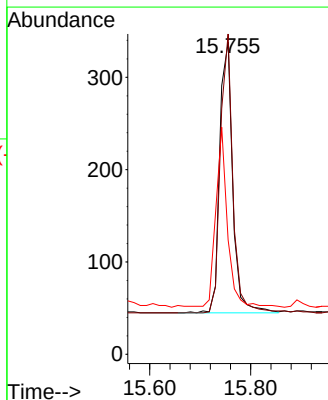
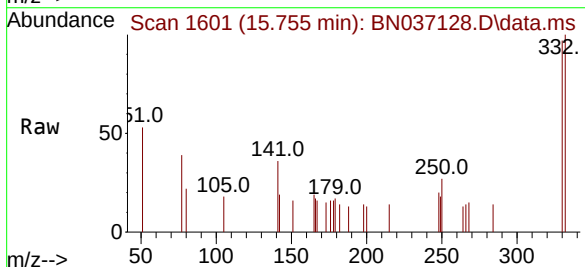
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

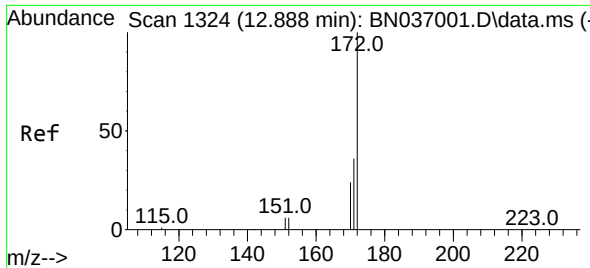
| Tgt Ion   | 164   | Resp  | 3682  |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 164       | 100   |       |       |
| 162       | 105.4 | 84.2  | 126.4 |
| 160       | 53.8  | 42.6  | 63.8  |



#14  
2,4,6-Tribromophenol  
Concen: 0.323 ng  
RT: 15.755 min Scan# 1601  
Delta R.T. -0.012 min  
Lab File: BN037128.D  
Acq: 29 May 2025 10:07

| Tgt Ion   | 330   | Resp  | 522   |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 330       | 100   |       |       |
| 332       | 99.2  | 73.8  | 110.8 |
| 141       | 60.0  | 43.9  | 65.9  |

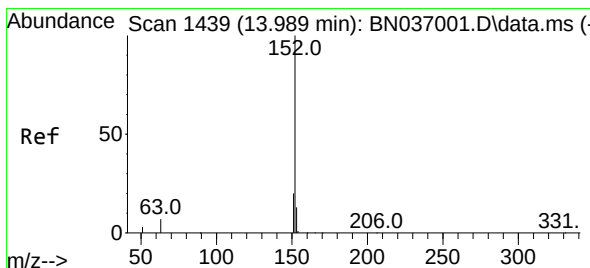
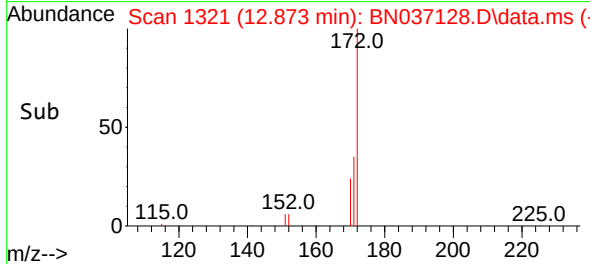
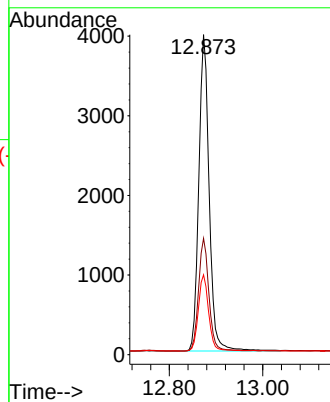
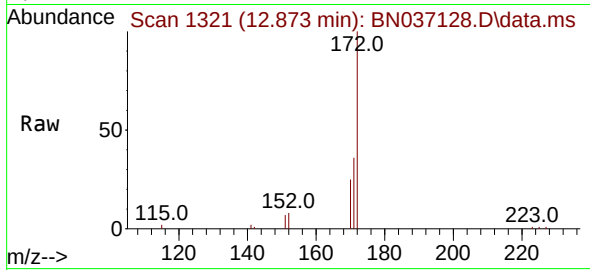




#15  
2-Fluorobiphenyl  
Concen: 0.393 ng  
RT: 12.873 min Scan# 11  
Delta R.T. -0.015 min  
Lab File: BN037128.D  
Acq: 29 May 2025 10:07

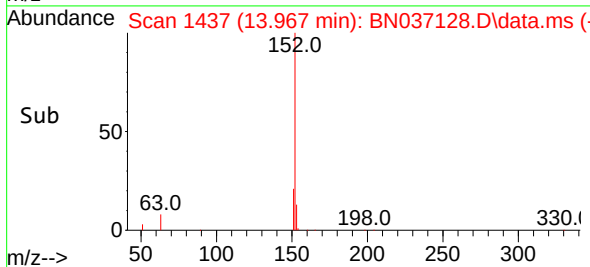
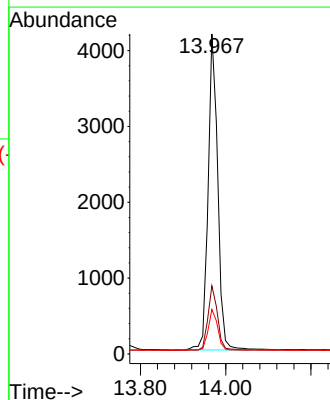
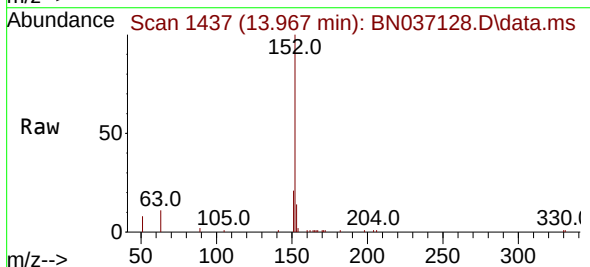
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

Tgt Ion:172 Resp: 6620  
Ion Ratio Lower Upper  
172 100  
171 36.3 29.2 43.8  
170 25.0 20.5 30.7

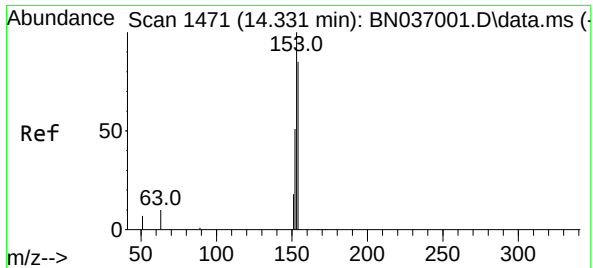


#16  
Acenaphthylene  
Concen: 0.363 ng  
RT: 13.967 min Scan# 1437  
Delta R.T. -0.021 min  
Lab File: BN037128.D  
Acq: 29 May 2025 10:07

Tgt Ion:152 Resp: 6514  
Ion Ratio Lower Upper  
152 100  
151 20.1 16.1 24.1  
153 12.8 10.5 15.7



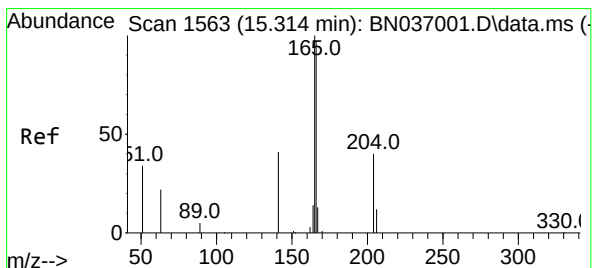
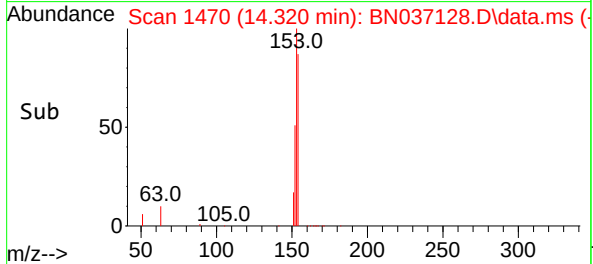
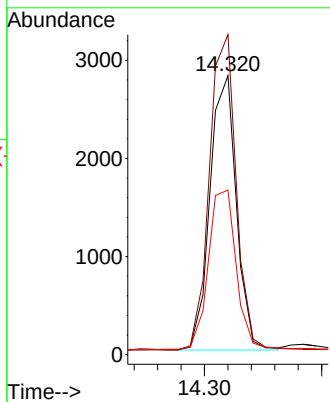
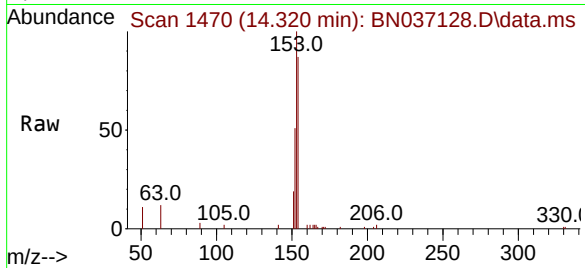




#17  
Acenaphthene  
Concen: 0.373 ng  
RT: 14.320 min Scan# 1471  
Delta R.T. -0.011 min  
Lab File: BN037128.D  
Acq: 29 May 2025 10:07

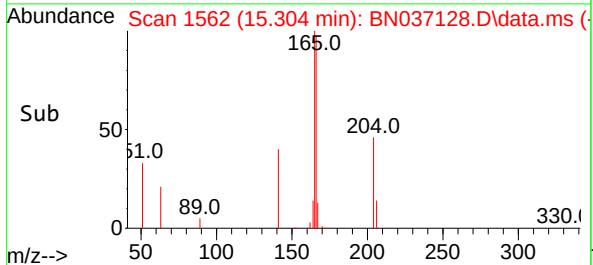
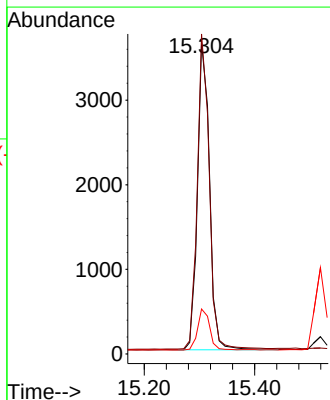
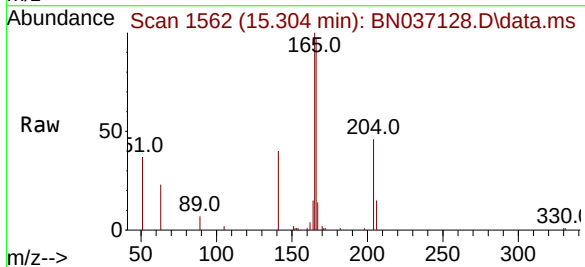
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

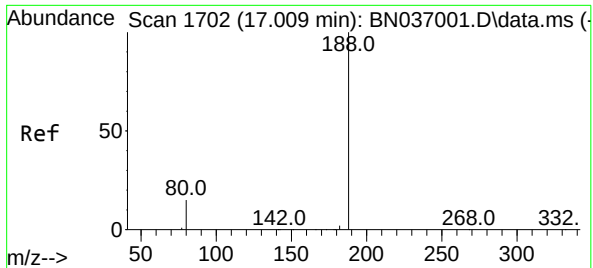
Tgt Ion:154 Resp: 4370  
Ion Ratio Lower Upper  
154 100  
153 116.9 94.2 141.4  
152 61.8 49.4 74.0



#18  
Fluorene  
Concen: 0.359 ng  
RT: 15.304 min Scan# 1562  
Delta R.T. -0.011 min  
Lab File: BN037128.D  
Acq: 29 May 2025 10:07

Tgt Ion:166 Resp: 5520  
Ion Ratio Lower Upper  
166 100  
165 100.9 80.6 120.8  
167 13.3 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.996 min Scan# 1

Delta R.T. -0.012 min

Lab File: BN037128.D

Acq: 29 May 2025 10:07

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

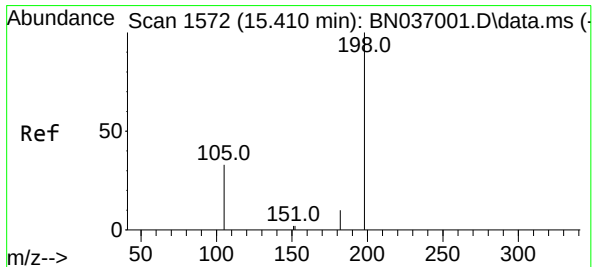
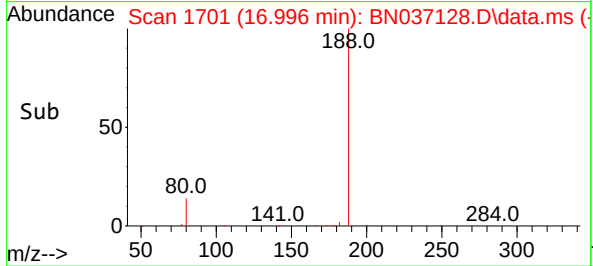
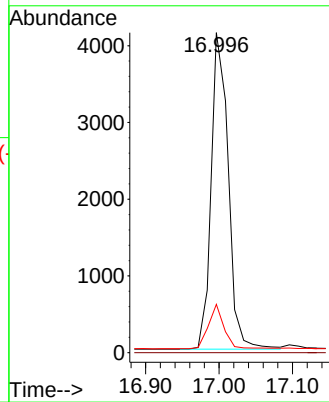
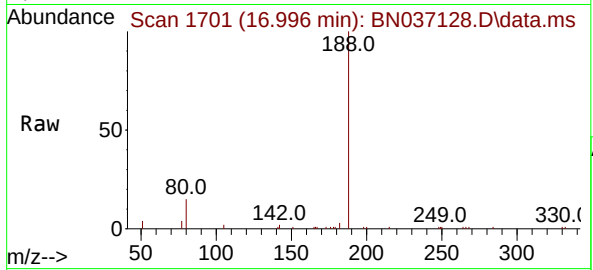
Tgt Ion:188 Resp: 6656

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 15.1 13.4 20.0



#20

4,6-Dinitro-2-methylphenol

Concen: 0.384 ng

RT: 15.400 min Scan# 1571

Delta R.T. -0.010 min

Lab File: BN037128.D

Acq: 29 May 2025 10:07

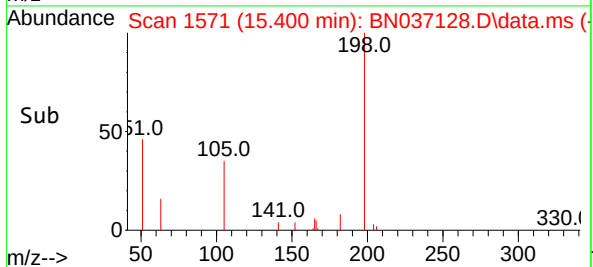
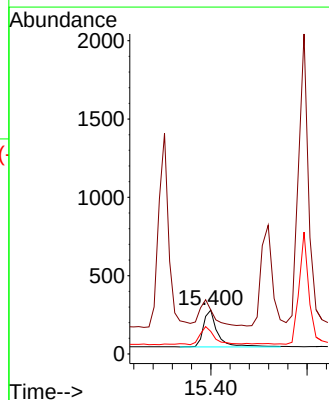
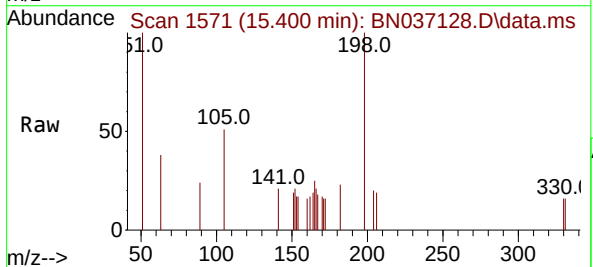
Tgt Ion:198 Resp: 491

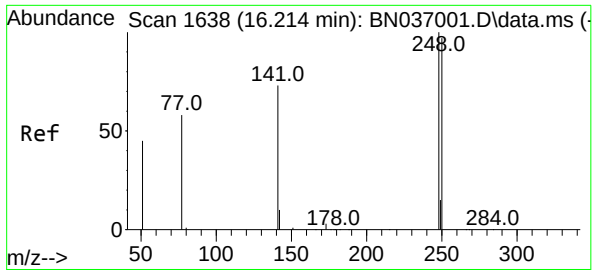
Ion Ratio Lower Upper

198 100

51 100.4 87.8 131.6

105 51.4 44.2 66.4

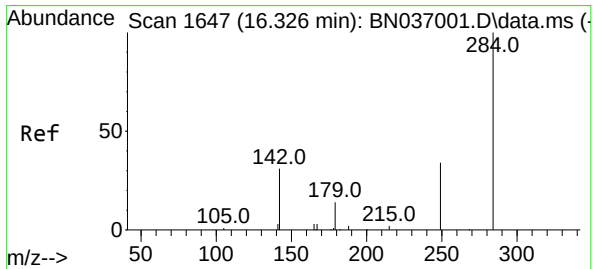
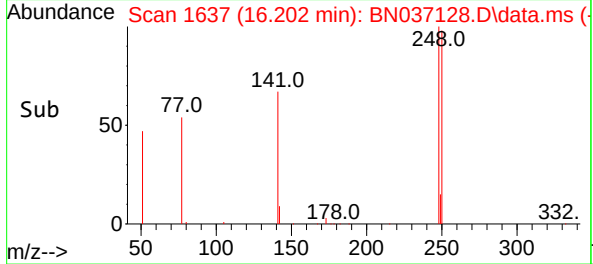
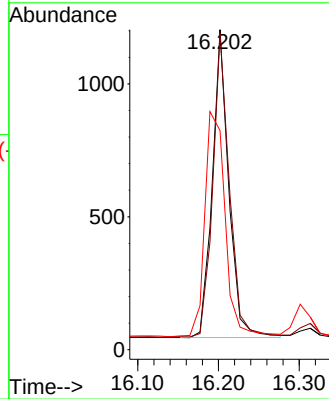
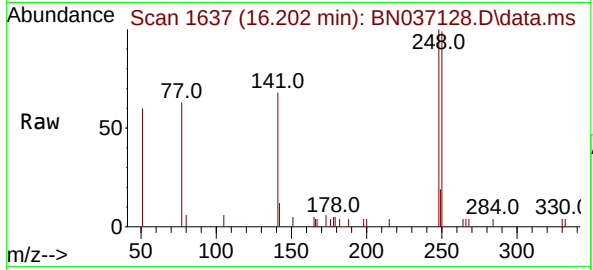




#21  
4-Bromophenyl-phenylether  
Concen: 0.390 ng  
RT: 16.202 min Scan# 1638  
Delta R.T. -0.012 min  
Lab File: BN037128.D  
Acq: 29 May 2025 10:07

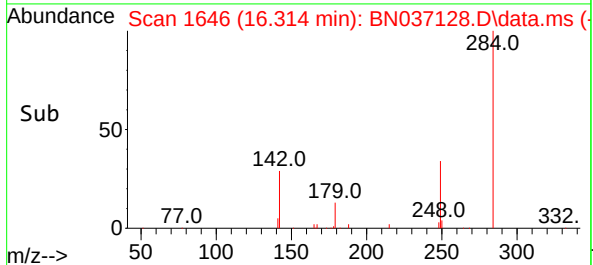
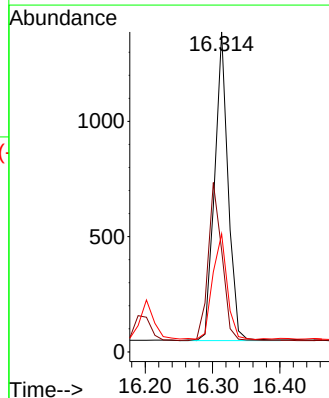
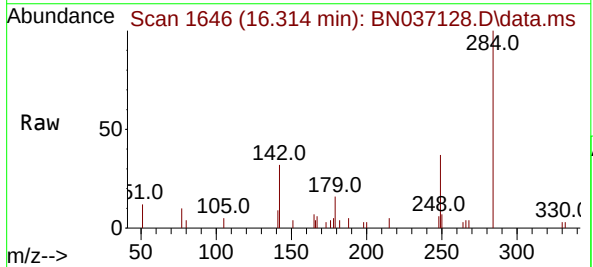
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

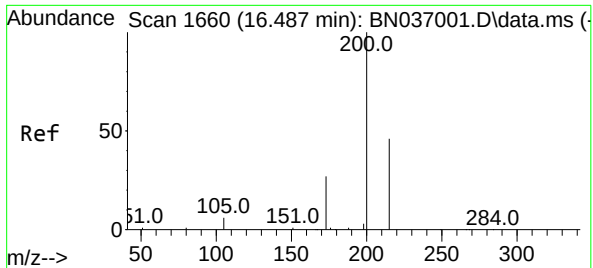
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 248     | 100   |       |       |
| 250     | 98.8  | 78.1  | 117.1 |
| 141     | 68.4  | 59.7  | 89.5  |



#22  
Hexachlorobenzene  
Concen: 0.413 ng  
RT: 16.314 min Scan# 1646  
Delta R.T. -0.012 min  
Lab File: BN037128.D  
Acq: 29 May 2025 10:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 284     | 100   |       |       |
| 142     | 52.9  | 41.2  | 61.8  |
| 249     | 36.9  | 28.7  | 43.1  |

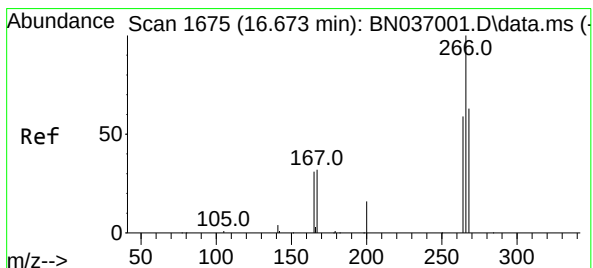
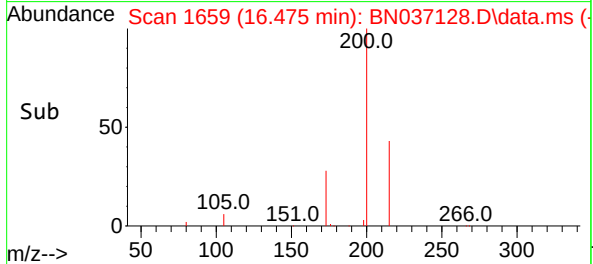
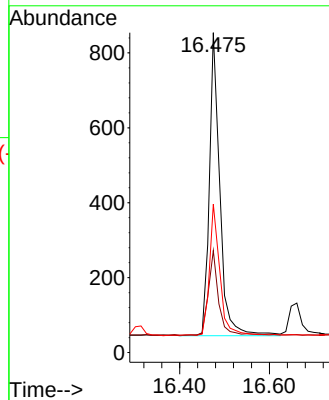
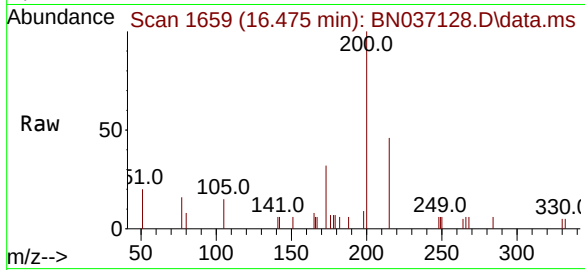




#23  
Atrazine  
Concen: 0.357 ng  
RT: 16.475 min Scan# 1659  
Delta R.T. -0.012 min  
Lab File: BN037128.D  
Acq: 29 May 2025 10:07

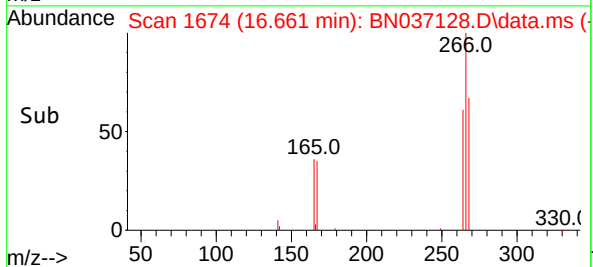
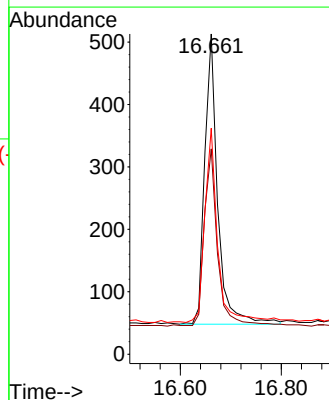
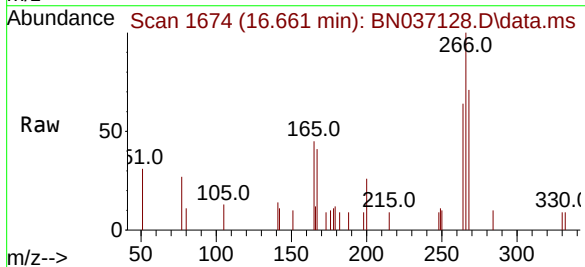
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

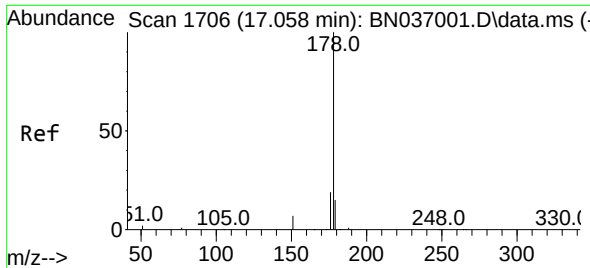
| Tgt Ion   | 200   | Resp: | 1309 |
|-----------|-------|-------|------|
| Ion Ratio | Lower | Upper |      |
| 200       | 100   |       |      |
| 173       | 31.9  | 25.2  | 37.8 |
| 215       | 46.4  | 39.3  | 58.9 |



#24  
Pentachlorophenol  
Concen: 0.337 ng  
RT: 16.661 min Scan# 1674  
Delta R.T. -0.012 min  
Lab File: BN037128.D  
Acq: 29 May 2025 10:07

| Tgt Ion   | 266   | Resp: | 836  |
|-----------|-------|-------|------|
| Ion Ratio | Lower | Upper |      |
| 266       | 100   |       |      |
| 264       | 61.1  | 47.9  | 71.9 |
| 268       | 64.6  | 50.0  | 75.0 |

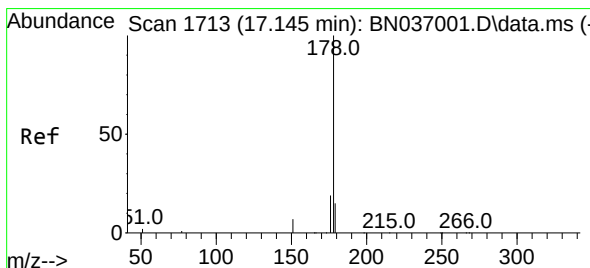
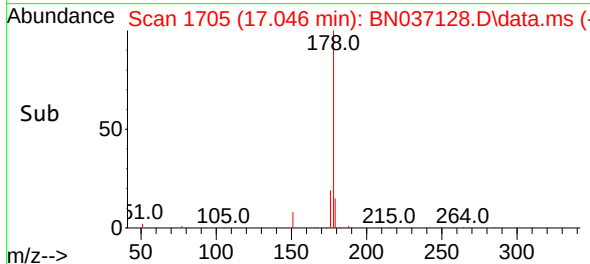
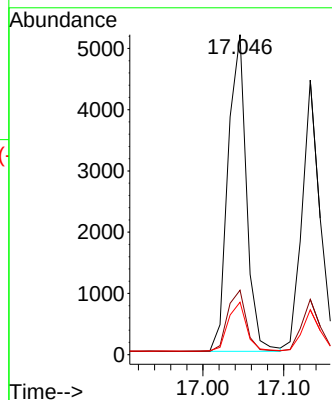
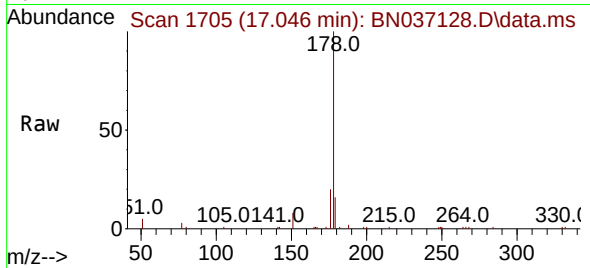




#25  
Phenanthrene  
Concen: 0.377 ng  
RT: 17.046 min Scan# 1711  
Delta R.T. -0.012 min  
Lab File: BN037128.D  
Acq: 29 May 2025 10:07

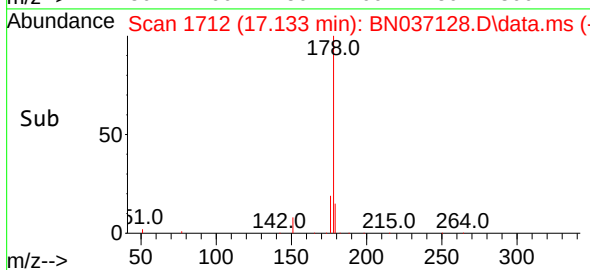
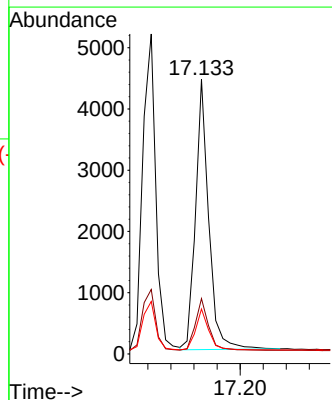
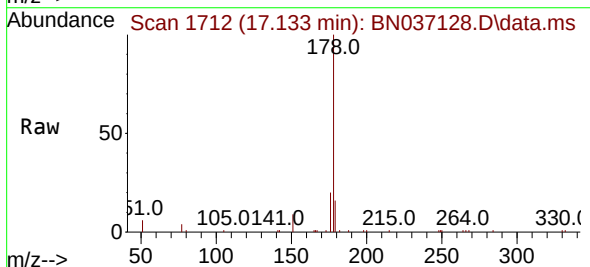
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

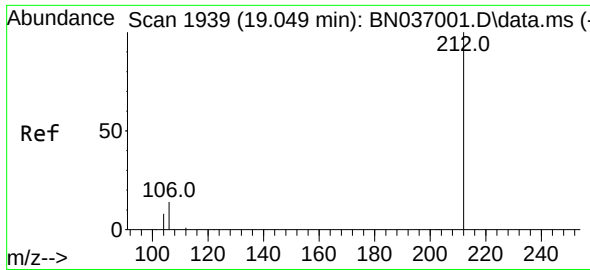
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.7  | 15.7  | 23.5  |
| 179     | 15.7  | 12.2  | 18.2  |



#26  
Anthracene  
Concen: 0.355 ng  
RT: 17.133 min Scan# 1712  
Delta R.T. -0.012 min  
Lab File: BN037128.D  
Acq: 29 May 2025 10:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.6  | 15.0  | 22.6  |
| 179     | 15.3  | 12.3  | 18.5  |

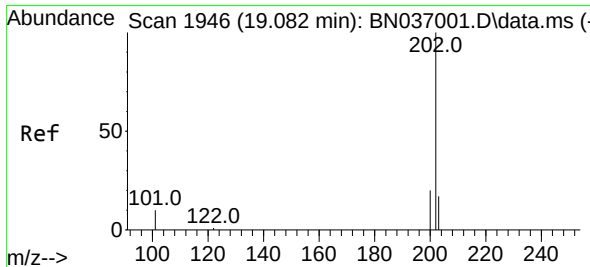
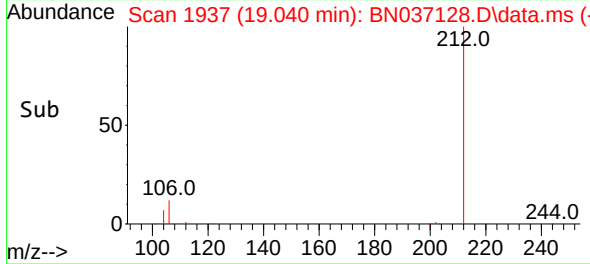
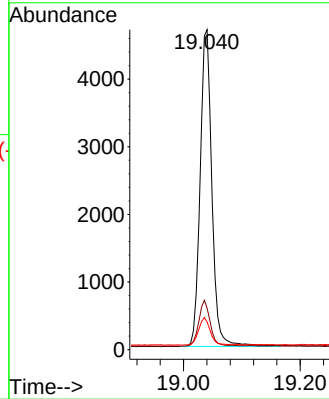
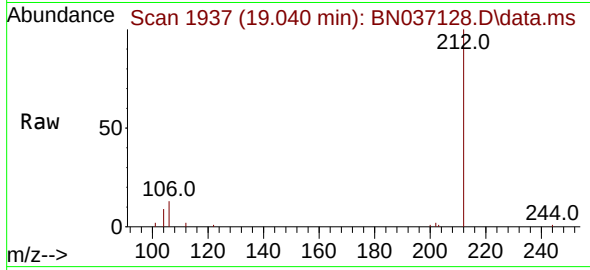




#27  
Fluoranthene-d10  
Concen: 0.361 ng  
RT: 19.040 min Scan# 1937  
Delta R.T. -0.009 min  
Lab File: BN037128.D  
Acq: 29 May 2025 10:07

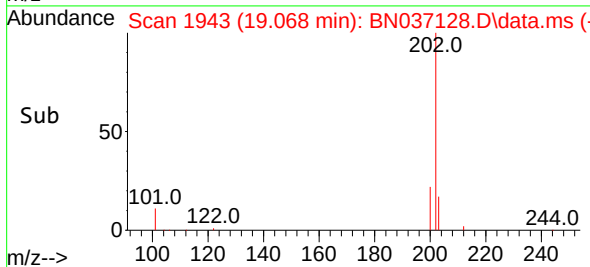
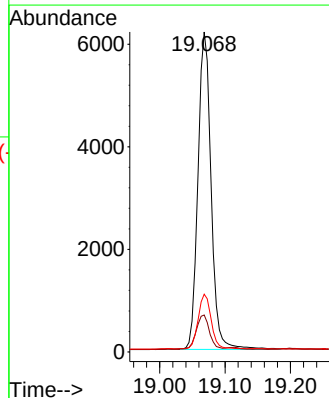
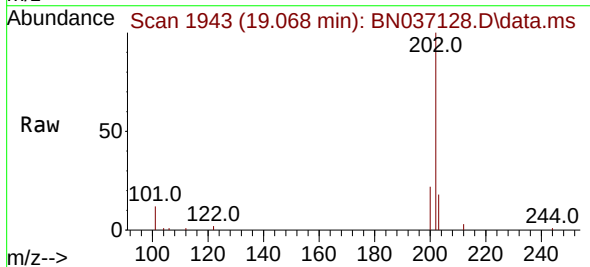
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

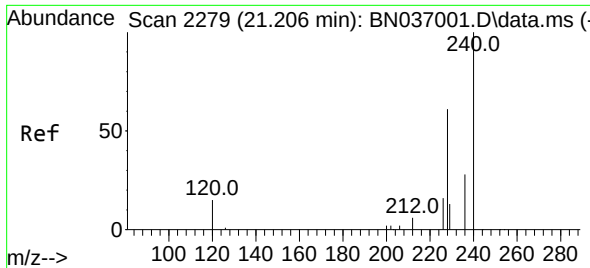
Tgt Ion:212 Resp: 6590  
Ion Ratio Lower Upper  
212 100  
106 14.0 11.3 16.9  
104 8.4 6.7 10.1



#28  
Fluoranthene  
Concen: 0.332 ng  
RT: 19.068 min Scan# 1943  
Delta R.T. -0.014 min  
Lab File: BN037128.D  
Acq: 29 May 2025 10:07

Tgt Ion:202 Resp: 8637  
Ion Ratio Lower Upper  
202 100  
101 10.9 8.9 13.3  
203 17.0 13.8 20.8

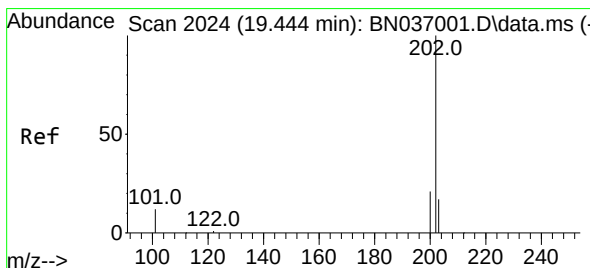
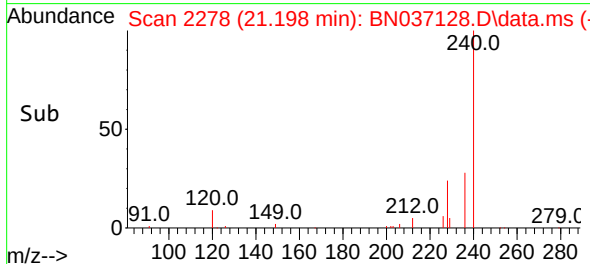
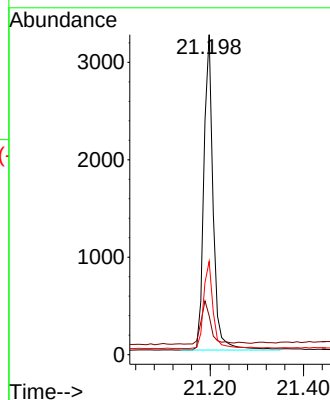
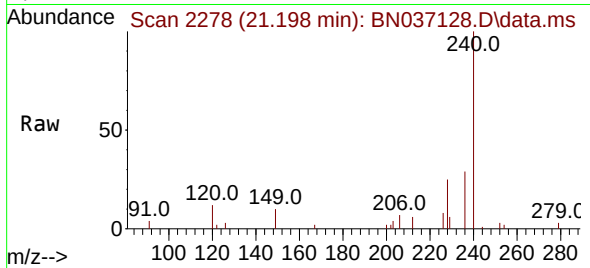




#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.198 min Scan# 21  
Delta R.T. -0.009 min  
Lab File: BN037128.D  
Acq: 29 May 2025 10:07

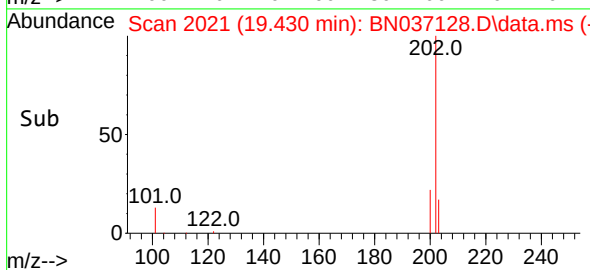
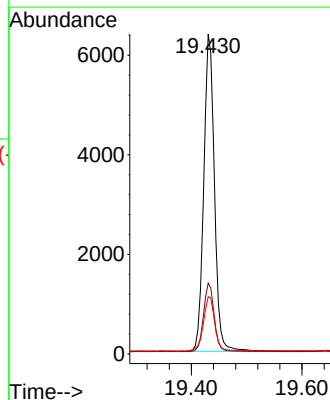
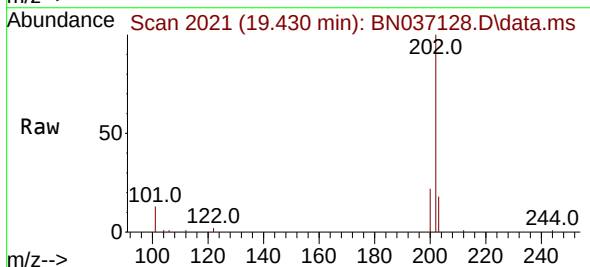
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

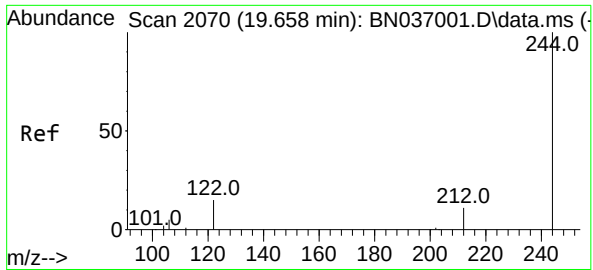
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 12.1  | 15.1  | 22.7# |
| 236     | 29.1  | 24.0  | 36.0  |



#30  
Pyrene  
Concen: 0.446 ng  
RT: 19.430 min Scan# 2021  
Delta R.T. -0.014 min  
Lab File: BN037128.D  
Acq: 29 May 2025 10:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 21.6  | 17.1  | 25.7  |
| 203     | 18.2  | 14.2  | 21.4  |

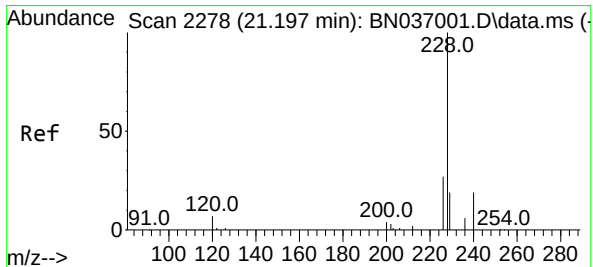
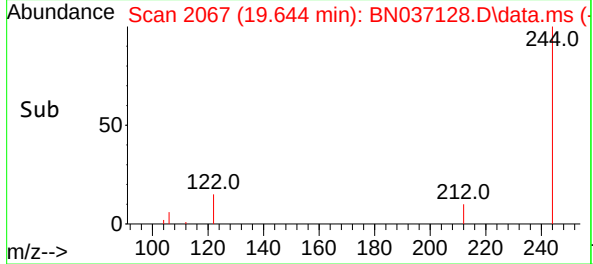
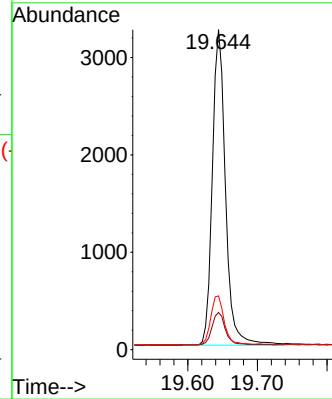
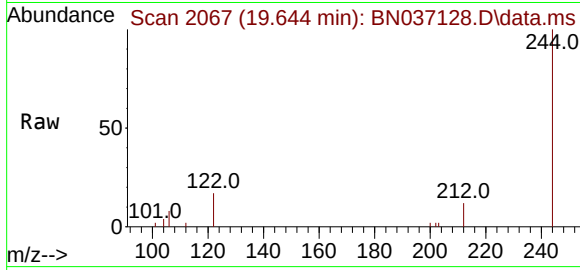




#31  
Terphenyl-d14  
Concen: 0.442 ng  
RT: 19.644 min Scan# 2070  
Delta R.T. -0.014 min  
Lab File: BN037128.D  
Acq: 29 May 2025 10:07

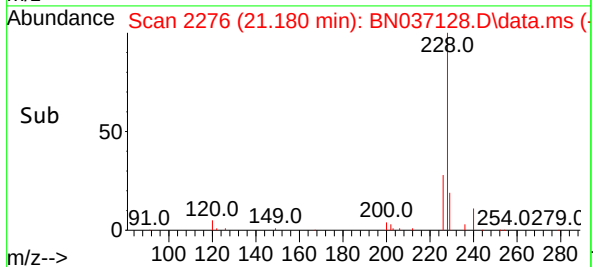
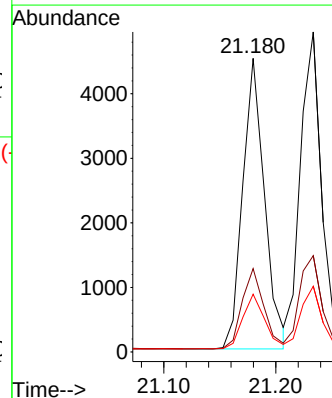
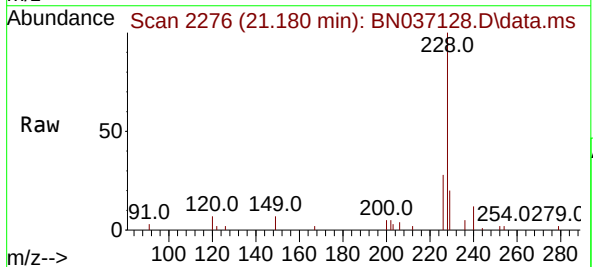
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

Tgt Ion:244 Resp: 4257  
Ion Ratio Lower Upper  
244 100  
212 11.7 9.7 14.5  
122 16.8 13.4 20.0

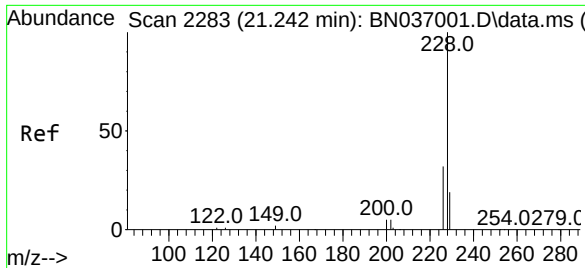


#32  
Benzo(a)anthracene  
Concen: 0.361 ng  
RT: 21.180 min Scan# 2276  
Delta R.T. -0.018 min  
Lab File: BN037128.D  
Acq: 29 May 2025 10:07

Tgt Ion:228 Resp: 6109  
Ion Ratio Lower Upper  
228 100  
226 28.4 22.2 33.4  
229 19.7 16.0 24.0



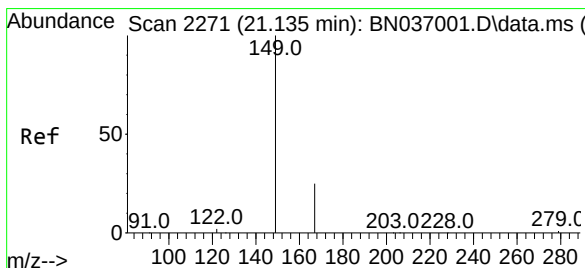
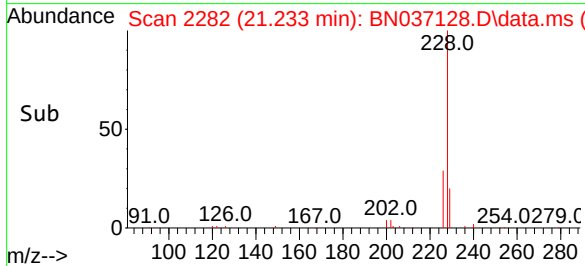
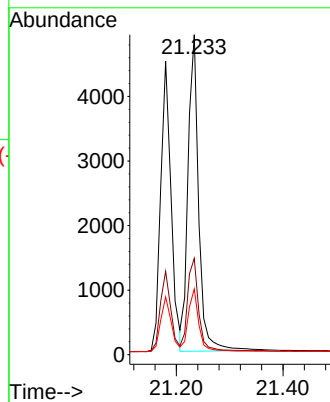
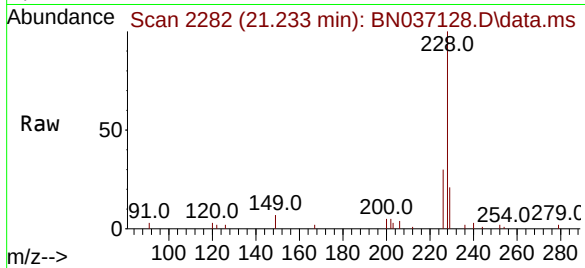




#33  
Chrysene  
Concen: 0.380 ng  
RT: 21.233 min Scan# 21  
Delta R.T. -0.009 min  
Lab File: BN037128.D  
Acq: 29 May 2025 10:07

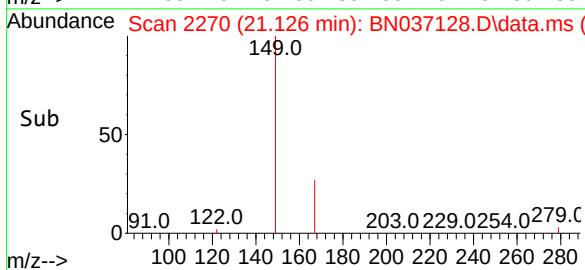
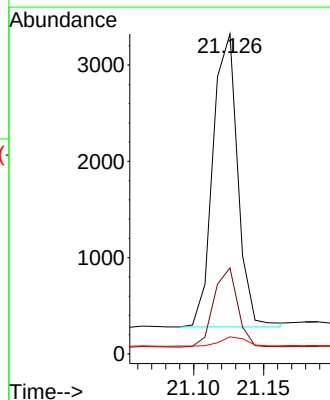
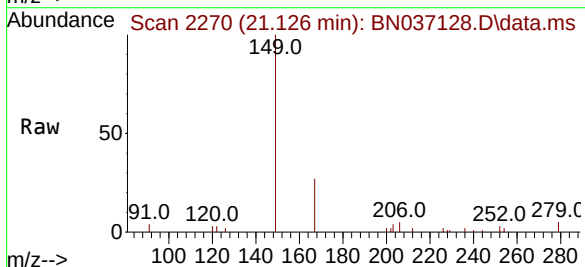
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

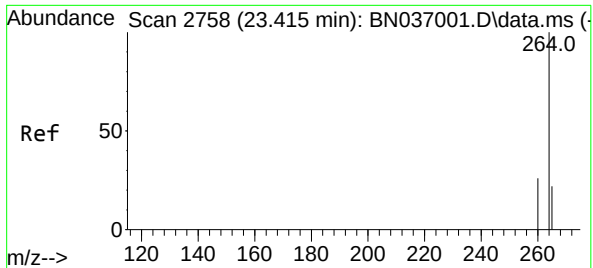
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.1  | 26.3  | 39.5  |
| 229     | 20.6  | 16.2  | 24.2  |



#34  
Bis(2-ethylhexyl)phthalate  
Concen: 0.361 ng  
RT: 21.126 min Scan# 2270  
Delta R.T. -0.009 min  
Lab File: BN037128.D  
Acq: 29 May 2025 10:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 26.0  | 20.6  | 30.8  |
| 279     | 3.5   | 2.6   | 3.8   |





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.392 min Scan# 21

Delta R.T. -0.023 min

Lab File: BN037128.D

Acq: 29 May 2025 10:07

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

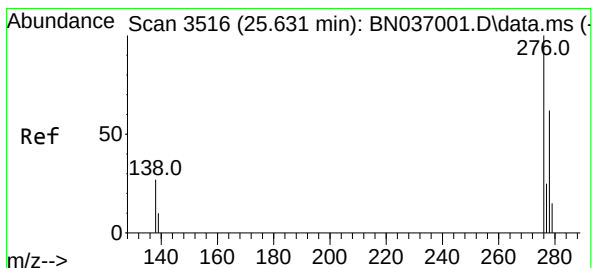
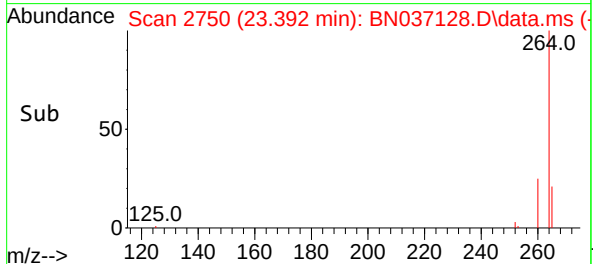
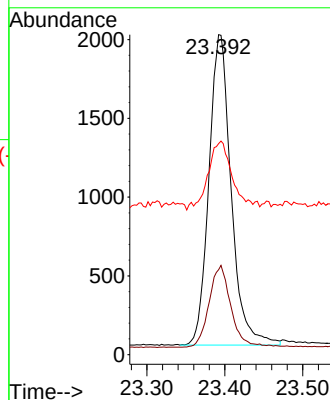
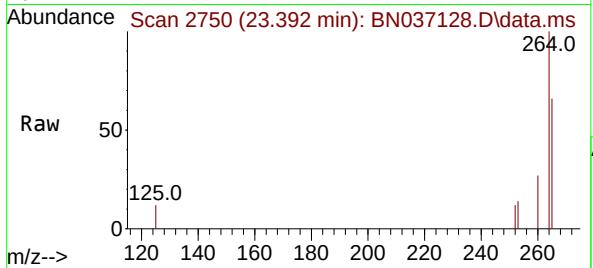
Tgt Ion:264 Resp: 3905

Ion Ratio Lower Upper

264 100

260 26.5 21.9 32.9

265 65.9 51.6 77.4



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.393 ng

RT: 25.596 min Scan# 3504

Delta R.T. -0.035 min

Lab File: BN037128.D

Acq: 29 May 2025 10:07

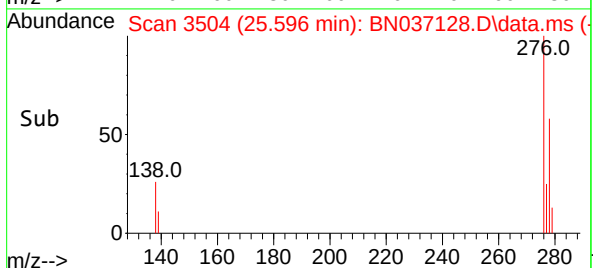
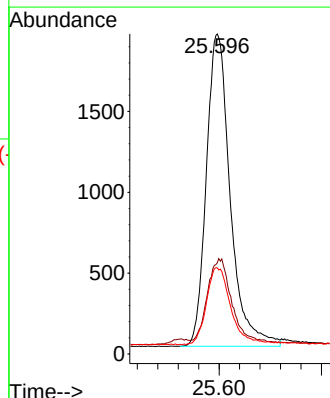
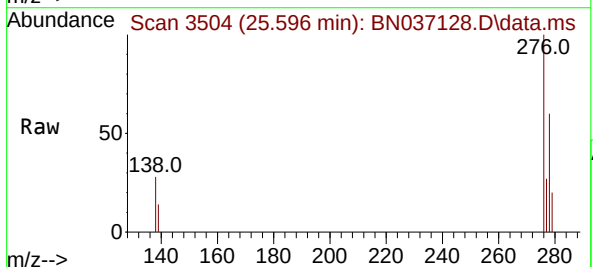
Tgt Ion:276 Resp: 6266

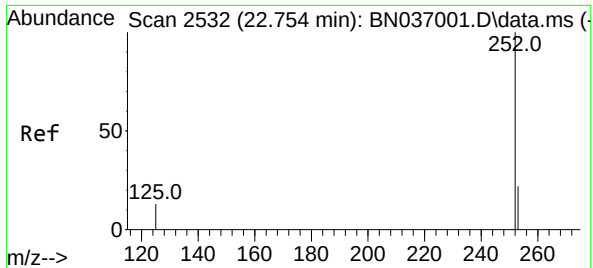
Ion Ratio Lower Upper

276 100

138 25.9 22.7 34.1

277 24.8 20.0 30.0

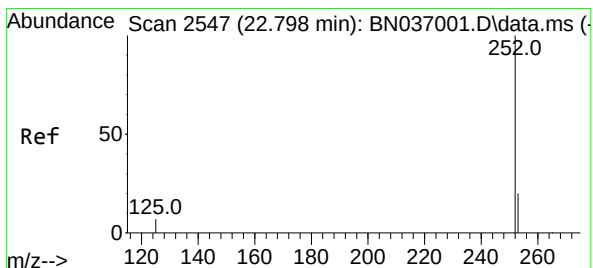
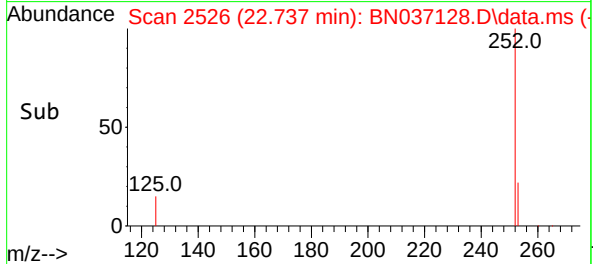
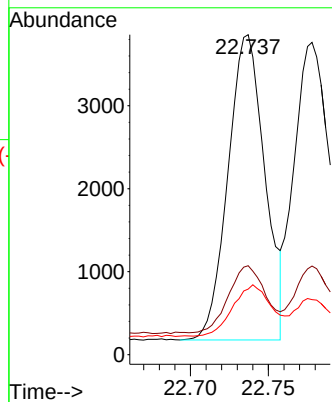
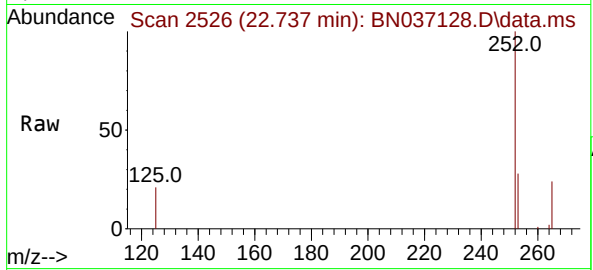




#37  
Benzo(b)fluoranthene  
Concen: 0.373 ng  
RT: 22.737 min Scan# 21  
Delta R.T. -0.017 min  
Lab File: BN037128.D  
Acq: 29 May 2025 10:07

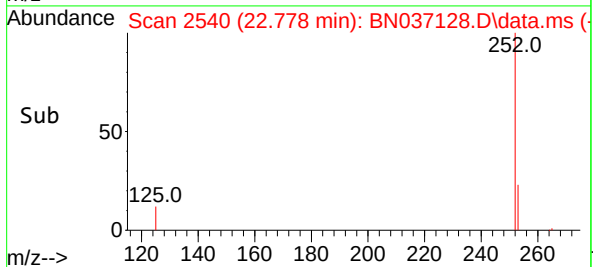
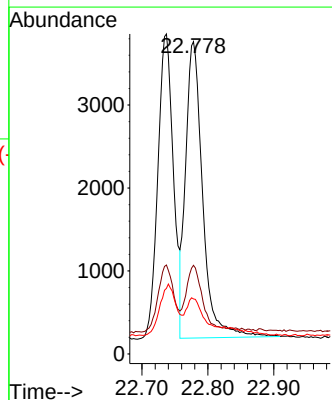
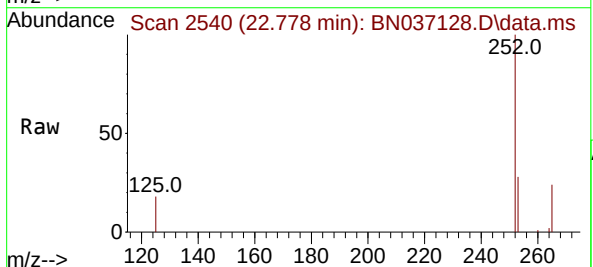
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

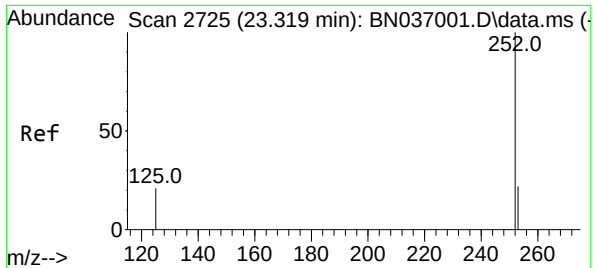
Tgt Ion:252 Resp: 6045  
Ion Ratio Lower Upper  
252 100  
253 27.8 21.8 32.6  
125 20.5 14.6 21.8



#38  
Benzo(k)fluoranthene  
Concen: 0.400 ng  
RT: 22.778 min Scan# 2540  
Delta R.T. -0.020 min  
Lab File: BN037128.D  
Acq: 29 May 2025 10:07

Tgt Ion:252 Resp: 6392  
Ion Ratio Lower Upper  
252 100  
253 28.4 21.4 32.2  
125 17.6 13.0 19.4





#39

Benzo(a)pyrene

Concen: 0.382 ng

RT: 23.298 min Scan# 21

Delta R.T. -0.020 min

Lab File: BN037128.D

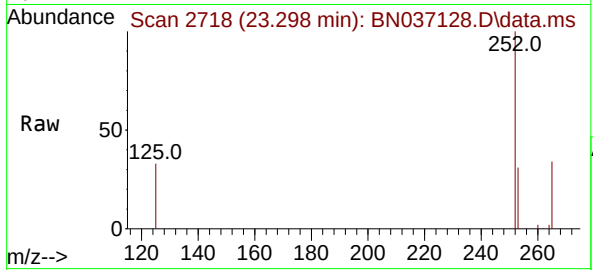
Acq: 29 May 2025 10:07

Instrument :

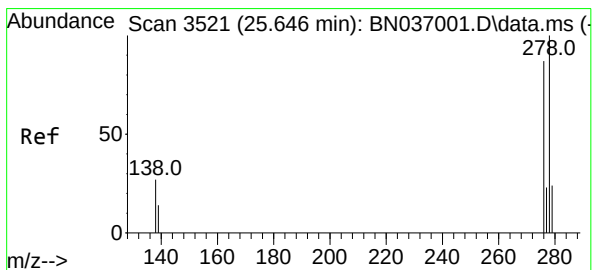
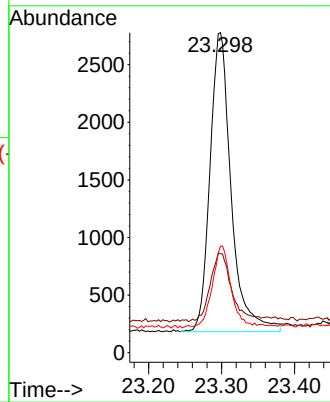
BNA\_N

ClientSampleId :

SSTDCCC0.4



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 5247  |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 31.0  | 23.8  | 35.6  |
| 125       | 33.3  | 21.8  | 32.6# |



#40

Dibenzo(a,h)anthracene

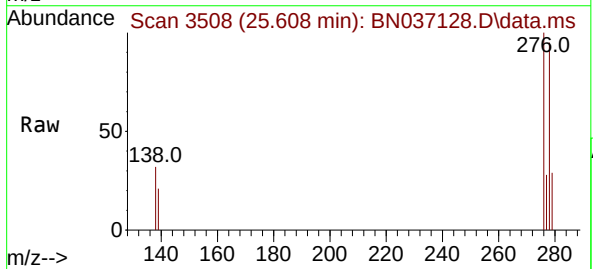
Concen: 0.386 ng

RT: 25.608 min Scan# 3508

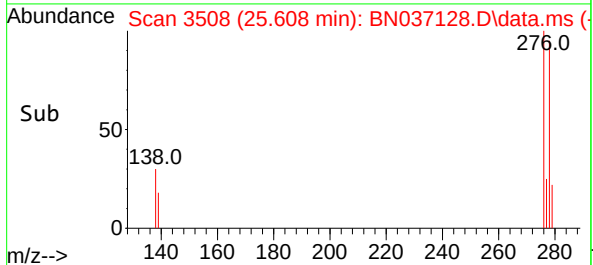
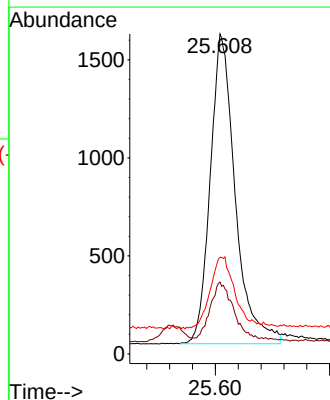
Delta R.T. -0.038 min

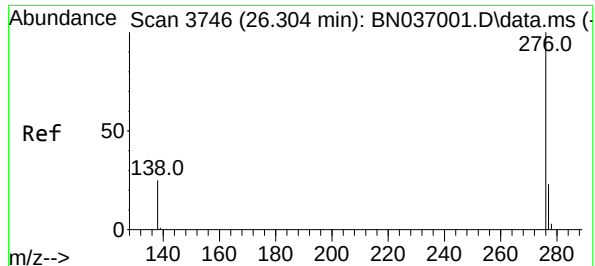
Lab File: BN037128.D

Acq: 29 May 2025 10:07



|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 278   | Resp: | 4793 |
| Ion Ratio | Lower | Upper |      |
| 278       | 100   |       |      |
| 139       | 22.4  | 17.4  | 26.0 |
| 279       | 30.2  | 24.6  | 37.0 |





#41

Benzo(g,h,i)perylene

Concen: 0.410 ng

RT: 26.266 min Scan# 31

Delta R.T. -0.038 min

Lab File: BN037128.D

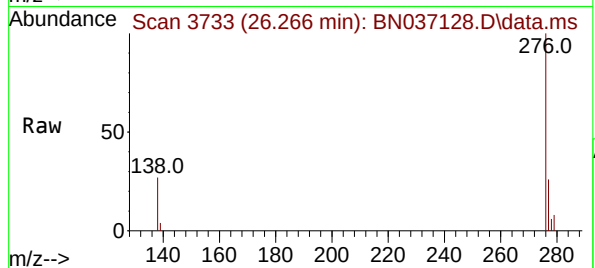
Acq: 29 May 2025 10:07

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4



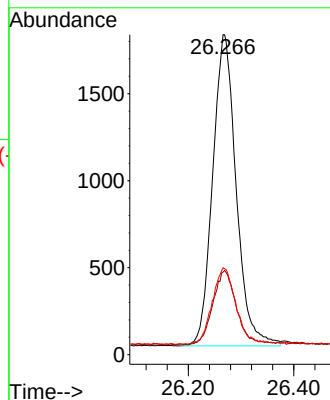
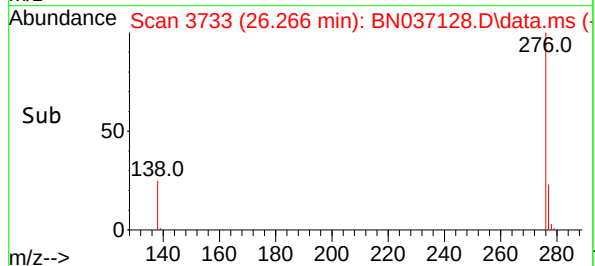
Tgt Ion:276 Resp: 5529

Ion Ratio Lower Upper

276 100

277 25.8 20.2 30.4

138 27.1 22.0 33.0



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN052925\  
 Data File : BN037128.D  
 Acq On : 29 May 2025 10:07  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 LabSampleId :  
 SSTDCCC0.4

Quant Time: May 29 11:46:14 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN051425.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 14 11:26:32 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   | 138   | -0.01    |
| 2       | 1,4-Dioxane                | 0.491 | 0.467 | 4.9   | 126   | 0.00     |
| 3       | n-Nitrosodimethylamine     | 1.054 | 1.004 | 4.7   | 141   | 0.00     |
| 4 S     | 2-Fluorophenol             | 1.048 | 0.941 | 10.2  | 114   | -0.01    |
| 5 S     | Phenol-d6                  | 1.311 | 1.159 | 11.6  | 115   | -0.01    |
| 6       | bis(2-Chloroethyl)ether    | 1.207 | 1.175 | 2.7   | 140   | 0.00     |
| 7 I     | Naphthalene-d8             | 1.000 | 1.000 | 0.0   | 143   | -0.02    |
| 8 S     | Nitrobenzene-d5            | 0.436 | 0.408 | 6.4   | 147   | -0.02    |
| 9       | Naphthalene                | 1.182 | 1.110 | 6.1   | 139   | -0.01    |
| 10      | Hexachlorobutadiene        | 0.248 | 0.246 | 0.8   | 145   | -0.02    |
| 11 SURR | 2-Methylnaphthalene-d10    | 0.563 | 0.577 | -2.5  | 150   | -0.02    |
| 12      | 2-Methylnaphthalene        | 0.760 | 0.703 | 7.5   | 137   | -0.02    |
| 13 I    | Acenaphthene-d10           | 1.000 | 1.000 | 0.0   | 144   | -0.01    |
| 14 S    | 2,4,6-Tribromophenol       | 0.176 | 0.142 | 19.3  | 115   | -0.01    |
| 15 S    | 2-Fluorobiphenyl           | 1.832 | 1.798 | 1.9   | 136   | -0.02    |
| 16      | Acenaphthylene             | 1.947 | 1.769 | 9.1   | 134   | -0.02    |
| 17      | Acenaphthene               | 1.272 | 1.187 | 6.7   | 137   | -0.01    |
| 18      | Fluorene                   | 1.669 | 1.499 | 10.2  | 132   | -0.01    |
| 19 I    | Phenanthrene-d10           | 1.000 | 1.000 | 0.0   | 133   | -0.01    |
| 20      | 4,6-Dinitro-2-methylphenol | 0.090 | 0.074 | 17.8  | 134   | -0.01    |
| 21      | 4-Bromophenyl-phenylether  | 0.253 | 0.246 | 2.8   | 131   | -0.01    |
| 22      | Hexachlorobenzene          | 0.270 | 0.279 | -3.3  | 132   | -0.01    |
| 23      | Atrazine                   | 0.220 | 0.197 | 10.5  | 124   | -0.01    |
| 24      | Pentachlorophenol          | 0.149 | 0.126 | 15.4  | 118   | -0.01    |
| 25      | Phenanthrene               | 1.307 | 1.231 | 5.8   | 127   | -0.01    |
| 26      | Anthracene                 | 1.190 | 1.056 | 11.3  | 120   | -0.01    |
| 27 SURR | Fluoranthene-d10           | 1.097 | 0.990 | 9.8   | 122   | 0.00     |
| 28      | Fluoranthene               | 1.562 | 1.298 | 16.9  | 115   | -0.01    |
| 29 I    | Chrysene-d12               | 1.000 | 1.000 | 0.0   | 101   | 0.00     |
| 30      | Pyrene                     | 1.711 | 1.909 | -11.6 | 112   | -0.01    |
| 31 S    | Terphenyl-d14              | 0.856 | 0.946 | -10.5 | 110   | -0.01    |
| 32      | Benzo(a)anthracene         | 1.506 | 1.358 | 9.8   | 92    | -0.02    |
| 33      | Chrysene                   | 1.593 | 1.514 | 5.0   | 95    | 0.00     |
| 34      | Bis(2-ethylhexyl)phthalate | 0.927 | 0.836 | 9.8   | 93    | 0.00     |
| 35 I    | Perylene-d12               | 1.000 | 1.000 | 0.0   | 86    | -0.02    |
| 36      | Indeno(1,2,3-cd)pyrene     | 1.634 | 1.605 | 1.8   | 84    | -0.03    |
| 37      | Benzo(b)fluoranthene       | 1.659 | 1.548 | 6.7   | 83    | -0.02    |
| 38      | Benzo(k)fluoranthene       | 1.639 | 1.637 | 0.1   | 86    | -0.02    |
| 39 C    | Benzo(a)pyrene             | 1.407 | 1.344 | 4.5   | 84    | -0.02    |
| 40      | Dibenzo(a,h)anthracene     | 1.272 | 1.227 | 3.5   | 83    | -0.04    |
| 41      | Benzo(g,h,i)perylene       | 1.383 | 1.416 | -2.4  | 86    | -0.04    |

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN052925\  
 Data File : BN037128.D  
 Acq On : 29 May 2025 10:07  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 LabSampleId :  
 SSTDCCC0.4

Quant Time: May 29 11:46:14 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN051425.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 14 11:26:32 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   | 138   | -0.01    |
| 2       | 1,4-Dioxane                | 0.400  | 0.381 | 4.8   | 126   | 0.00     |
| 3       | n-Nitrosodimethylamine     | 0.400  | 0.381 | 4.8   | 141   | 0.00     |
| 4 S     | 2-Fluorophenol             | 0.400  | 0.359 | 10.3  | 114   | -0.01    |
| 5 S     | Phenol-d6                  | 0.400  | 0.353 | 11.8  | 115   | -0.01    |
| 6       | bis(2-Chloroethyl)ether    | 0.400  | 0.389 | 2.8   | 140   | 0.00     |
| 7 I     | Naphthalene-d8             | 0.400  | 0.400 | 0.0   | 143   | -0.02    |
| 8 S     | Nitrobenzene-d5            | 0.400  | 0.374 | 6.5   | 147   | -0.02    |
| 9       | Naphthalene                | 0.400  | 0.375 | 6.3   | 139   | -0.01    |
| 10      | Hexachlorobutadiene        | 0.400  | 0.396 | 1.0   | 145   | -0.02    |
| 11 SURR | 2-Methylnaphthalene-d10    | 0.400  | 0.410 | -2.5  | 150   | -0.02    |
| 12      | 2-Methylnaphthalene        | 0.400  | 0.370 | 7.5   | 137   | -0.02    |
| 13 I    | Acenaphthene-d10           | 0.400  | 0.400 | 0.0   | 144   | -0.01    |
| 14 S    | 2,4,6-Tribromophenol       | 0.400  | 0.323 | 19.3  | 115   | -0.01    |
| 15 S    | 2-Fluorobiphenyl           | 0.400  | 0.393 | 1.8   | 136   | -0.02    |
| 16      | Acenaphthylene             | 0.400  | 0.363 | 9.3   | 134   | -0.02    |
| 17      | Acenaphthene               | 0.400  | 0.373 | 6.8   | 137   | -0.01    |
| 18      | Fluorene                   | 0.400  | 0.359 | 10.3  | 132   | -0.01    |
| 19 I    | Phenanthrene-d10           | 0.400  | 0.400 | 0.0   | 133   | -0.01    |
| 20      | 4,6-Dinitro-2-methylphenol | 0.400  | 0.384 | 4.0   | 134   | -0.01    |
| 21      | 4-Bromophenyl-phenylether  | 0.400  | 0.390 | 2.5   | 131   | -0.01    |
| 22      | Hexachlorobenzene          | 0.400  | 0.413 | -3.2  | 132   | -0.01    |
| 23      | Atrazine                   | 0.400  | 0.357 | 10.8  | 124   | -0.01    |
| 24      | Pentachlorophenol          | 0.400  | 0.337 | 15.8  | 118   | -0.01    |
| 25      | Phenanthrene               | 0.400  | 0.377 | 5.8   | 127   | -0.01    |
| 26      | Anthracene                 | 0.400  | 0.355 | 11.3  | 120   | -0.01    |
| 27 SURR | Fluoranthene-d10           | 0.400  | 0.361 | 9.8   | 122   | 0.00     |
| 28      | Fluoranthene               | 0.400  | 0.332 | 17.0  | 115   | -0.01    |
| 29 I    | Chrysene-d12               | 0.400  | 0.400 | 0.0   | 101   | 0.00     |
| 30      | Pyrene                     | 0.400  | 0.446 | -11.5 | 112   | -0.01    |
| 31 S    | Terphenyl-d14              | 0.400  | 0.442 | -10.5 | 110   | -0.01    |
| 32      | Benzo(a)anthracene         | 0.400  | 0.361 | 9.8   | 92    | -0.02    |
| 33      | Chrysene                   | 0.400  | 0.380 | 5.0   | 95    | 0.00     |
| 34      | Bis(2-ethylhexyl)phthalate | 0.400  | 0.361 | 9.8   | 93    | 0.00     |
| 35 I    | Perylene-d12               | 0.400  | 0.400 | 0.0   | 86    | -0.02    |
| 36      | Indeno(1,2,3-cd)pyrene     | 0.400  | 0.393 | 1.8   | 84    | -0.03    |
| 37      | Benzo(b)fluoranthene       | 0.400  | 0.373 | 6.8   | 83    | -0.02    |
| 38      | Benzo(k)fluoranthene       | 0.400  | 0.400 | 0.0   | 86    | -0.02    |
| 39 C    | Benzo(a)pyrene             | 0.400  | 0.382 | 4.5   | 84    | -0.02    |
| 40      | Dibenzo(a,h)anthracene     | 0.400  | 0.386 | 3.5   | 83    | -0.04    |
| 41      | Benzo(g,h,i)perylene       | 0.400  | 0.410 | -2.5  | 86    | -0.04    |

(#) = Out of Range

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



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

7C

## SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2118 SAS No.: Q2118 SDG No.: Q2118

Instrument ID: BNA\_N Calibration Date/Time: 05/29/2025 12:51

Lab File ID: BN037131.D Init. Calib. Date(s): 05/13/2025 05/13/2025

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 17:41 21:17

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

| COMPOUND                | RRF   | RRF0.4 | MIN<br>RRF | %D    | MAX%D |
|-------------------------|-------|--------|------------|-------|-------|
| 2-Methylnaphthalene-d10 | 0.563 | 0.567  |            | 0.7   | 50.0  |
| Fluoranthene-d10        | 1.097 | 0.980  |            | -10.7 | 50.0  |
| 2-Fluorophenol          | 1.048 | 0.964  |            | -8.0  | 50.0  |
| Phenol-d6               | 1.311 | 1.140  |            | -13.0 | 50.0  |
| Nitrobenzene-d5         | 0.436 | 0.409  |            | -6.2  | 50.0  |
| 2-Fluorobiphenyl        | 1.832 | 1.686  |            | -8.0  | 50.0  |
| 2,4,6-Tribromophenol    | 0.176 | 0.145  |            | -17.6 | 50.0  |
| Terphenyl-d14           | 0.856 | 0.920  |            | 7.5   | 50.0  |
| 1,4-Dioxane             | 0.491 | 0.465  |            | -5.3  | 50.0  |

All other compounds must meet a minimum RRF of 0.010.



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN052925\  
 Data File : BN037131.D  
 Acq On : 29 May 2025 12:51  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4EC

Quant Time: May 29 13:17:57 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN051425.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 14 11:26:32 2025  
 Response via : Initial Calibration

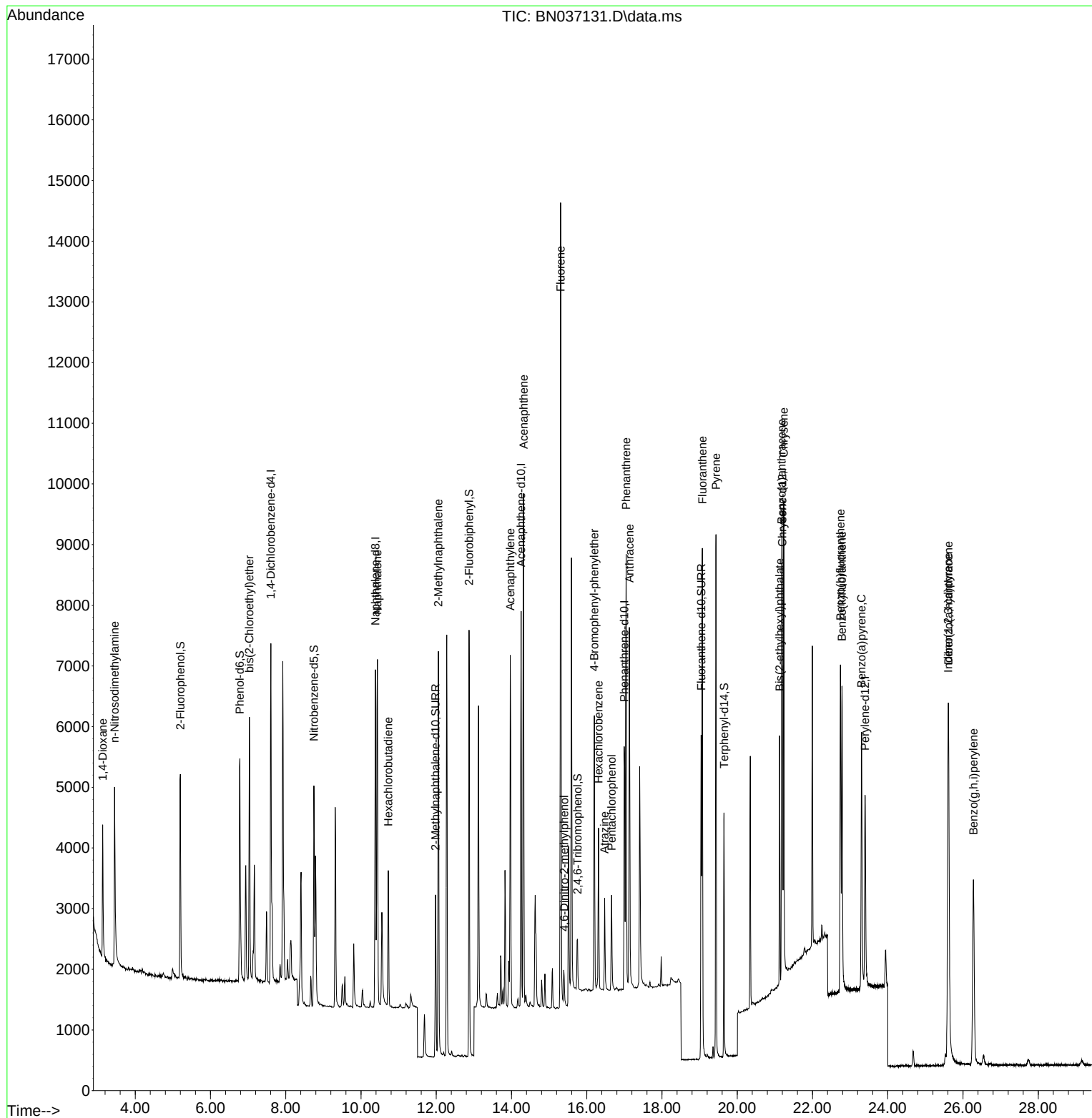
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.604  | 152  | 2551     | 0.400 | ng    | -0.01    |
| 7) Naphthalene-d8             | 10.383 | 136  | 6694     | 0.400 | ng    | -0.02    |
| 13) Acenaphthene-d10          | 14.256 | 164  | 3527     | 0.400 | ng    | -0.01    |
| 19) Phenanthrene-d10          | 16.996 | 188  | 6025     | 0.400 | ng    | -0.01    |
| 29) Chrysene-d12              | 21.198 | 240  | 4226     | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.398 | 264  | 4247     | 0.400 | ng    | -0.02    |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.199  | 112  | 2458     | 0.368 | ng    | -0.01    |
| 5) Phenol-d6                  | 6.781  | 99   | 2907     | 0.348 | ng    | -0.01    |
| 8) Nitrobenzene-d5            | 8.749  | 82   | 2739     | 0.376 | ng    | -0.02    |
| 11) 2-Methylnaphthalene-d10   | 11.981 | 152  | 3795     | 0.403 | ng    | -0.02    |
| 14) 2,4,6-Tribromophenol      | 15.755 | 330  | 512      | 0.331 | ng    | -0.01    |
| 15) 2-Fluorobiphenyl          | 12.873 | 172  | 5946     | 0.368 | ng    | -0.02    |
| 27) Fluoranthene-d10          | 19.040 | 212  | 5903     | 0.357 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.649 | 244  | 3887     | 0.430 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
| 2) 1,4-Dioxane                | 3.133  | 88   | 1187     | 0.379 | ng    | 97       |
| 3) n-Nitrosodimethylamine     | 3.451  | 42   | 2611     | 0.388 | ng    | # 91     |
| 6) bis(2-Chloroethyl)ether    | 7.033  | 93   | 2925     | 0.380 | ng    | 98       |
| 9) Naphthalene                | 10.436 | 128  | 7383     | 0.373 | ng    | 98       |
| 10) Hexachlorobutadiene       | 10.725 | 225  | 1680     | 0.405 | ng    | # 98     |
| 12) 2-Methylnaphthalene       | 12.057 | 142  | 4654     | 0.366 | ng    | 99       |
| 16) Acenaphthylene            | 13.967 | 152  | 6217     | 0.362 | ng    | 100      |
| 17) Acenaphthene              | 14.320 | 154  | 4181     | 0.373 | ng    | 98       |
| 18) Fluorene                  | 15.304 | 166  | 5205     | 0.354 | ng    | 100      |
| 20) 4,6-Dinitro-2-methylph... | 15.400 | 198  | 471      | 0.404 | ng    | 88       |
| 21) 4-Bromophenyl-phenylether | 16.202 | 248  | 1524     | 0.400 | ng    | 96       |
| 22) Hexachlorobenzene         | 16.314 | 284  | 1684     | 0.413 | ng    | 97       |
| 23) Atrazine                  | 16.475 | 200  | 1175     | 0.354 | ng    | 98       |
| 24) Pentachlorophenol         | 16.661 | 266  | 760      | 0.338 | ng    | 96       |
| 25) Phenanthrene              | 17.046 | 178  | 7369     | 0.374 | ng    | 99       |
| 26) Anthracene                | 17.133 | 178  | 6423     | 0.358 | ng    | 99       |
| 28) Fluoranthene              | 19.073 | 202  | 7686     | 0.327 | ng    | 99       |
| 30) Pyrene                    | 19.435 | 202  | 7791     | 0.431 | ng    | 100      |
| 32) Benzo(a)anthracene        | 21.180 | 228  | 5733     | 0.360 | ng    | 98       |
| 33) Chrysene                  | 21.233 | 228  | 6542     | 0.389 | ng    | 98       |
| 34) Bis(2-ethylhexyl)phtha... | 21.126 | 149  | 3396     | 0.347 | ng    | 99       |
| 36) Indeno(1,2,3-cd)pyrene    | 25.605 | 276  | 7187     | 0.414 | ng    | 98       |
| 37) Benzo(b)fluoranthene      | 22.743 | 252  | 6394     | 0.363 | ng    | 96       |
| 38) Benzo(k)fluoranthene      | 22.784 | 252  | 6552     | 0.377 | ng    | 99       |
| 39) Benzo(a)pyrene            | 23.304 | 252  | 5550     | 0.371 | ng    | # 94     |
| 40) Dibenzo(a,h)anthracene    | 25.614 | 278  | 5470     | 0.405 | ng    | 98       |
| 41) Benzo(g,h,i)perylene      | 26.278 | 276  | 6291     | 0.429 | ng    | 100      |
| -----                         |        |      |          |       |       |          |

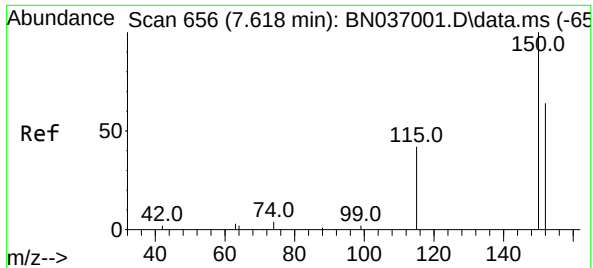
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN052925\  
Data File : BN037131.D  
Acq On : 29 May 2025 12:51  
Operator : RC/JU  
Sample : SSTDCCC0.4  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

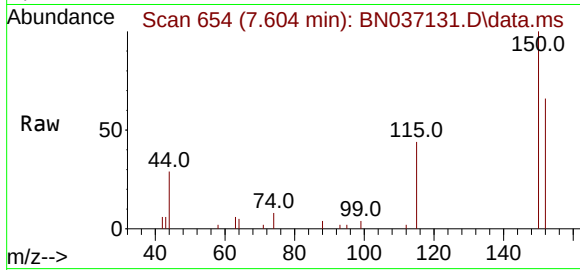
Quant Time: May 29 13:17:57 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN051425.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed May 14 11:26:32 2025  
Response via : Initial Calibration





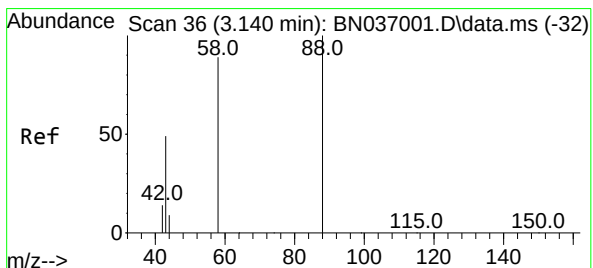
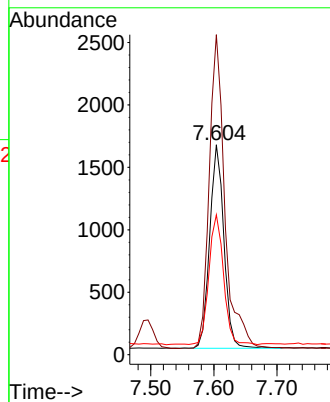
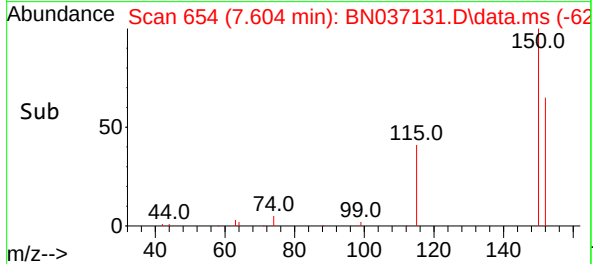
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 0.400 ng  
 RT: 7.604 min Scan# 61  
 Delta R.T. -0.014 min  
 Lab File: BN037131.D  
 Acq: 29 May 2025 12:51

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4EC



Tgt Ion:152 Resp: 2551

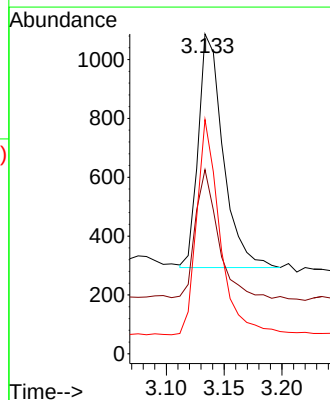
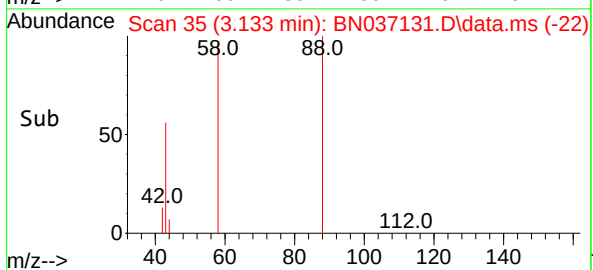
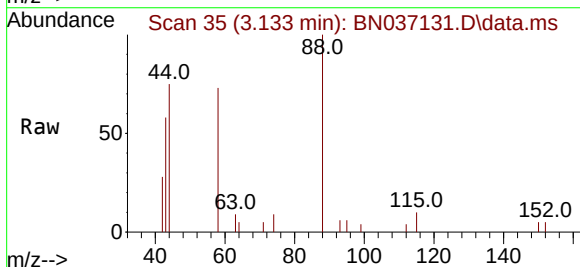
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 152 | 100   |       |       |
| 150 | 152.5 | 123.9 | 185.9 |
| 115 | 66.6  | 55.8  | 83.8  |



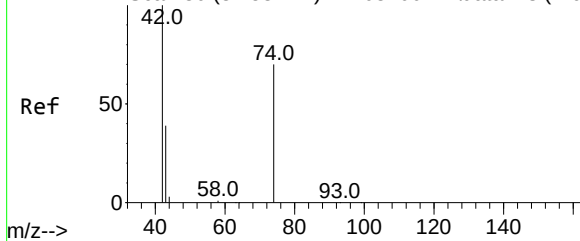
#2  
 1,4-Dioxane  
 Concen: 0.379 ng  
 RT: 3.133 min Scan# 35  
 Delta R.T. -0.007 min  
 Lab File: BN037131.D  
 Acq: 29 May 2025 12:51

Tgt Ion: 88 Resp: 1187

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 88  | 100   |       |       |
| 43  | 51.8  | 37.4  | 56.0  |
| 58  | 86.8  | 68.8  | 103.2 |



Abundance Scan 80 (3.458 min): BN037001.D\data.ms (-76)



#3

n-Nitrosodimethylamine

Concen: 0.388 ng

RT: 3.451 min Scan# 79

Delta R.T. -0.007 min

Lab File: BN037131.D

Acq: 29 May 2025 12:51

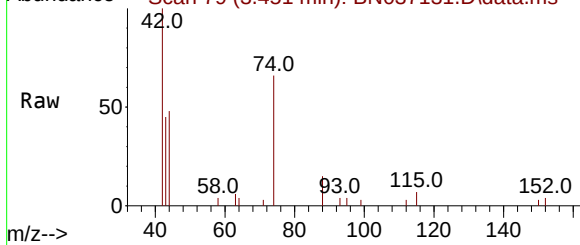
Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC

Abundance Scan 79 (3.451 min): BN037131.D\data.ms



Tgt Ion: 42 Resp: 2611

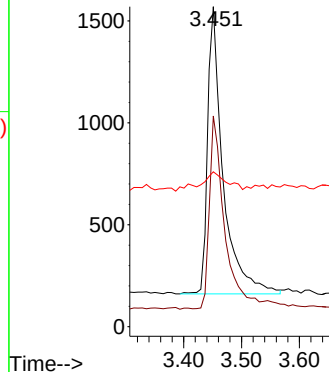
Ion Ratio Lower Upper

42 100

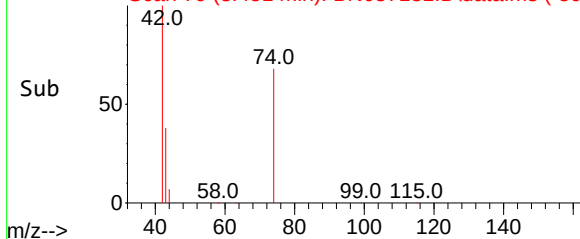
74 68.2 59.8 89.6

44 7.6 11.9 17.9#

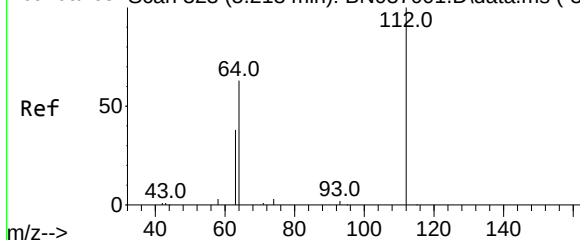
Abundance



Abundance Scan 79 (3.451 min): BN037131.D\data.ms (-59)



Abundance Scan 323 (5.213 min): BN037001.D\data.ms (-31)



#4

2-Fluorophenol

Concen: 0.368 ng

RT: 5.199 min Scan# 321

Delta R.T. -0.014 min

Lab File: BN037131.D

Acq: 29 May 2025 12:51

Tgt Ion: 112 Resp: 2458

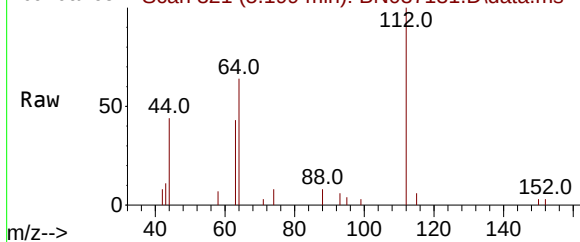
Ion Ratio Lower Upper

112 100

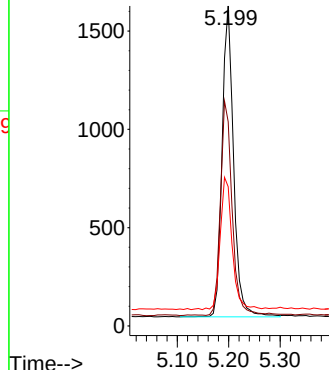
64 69.6 55.7 83.5

63 43.9 34.6 51.8

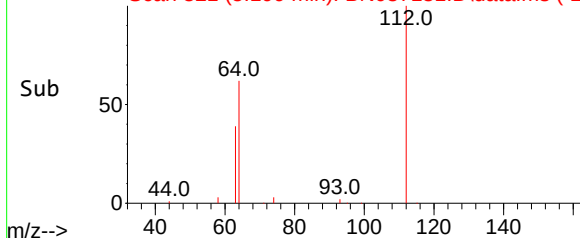
Abundance Scan 321 (5.199 min): BN037131.D\data.ms

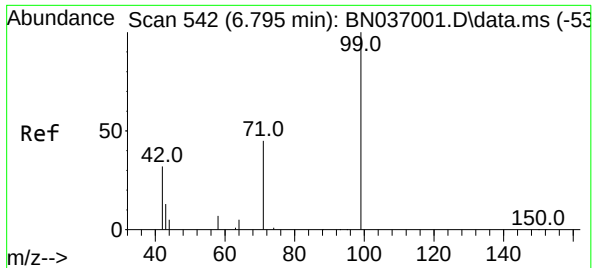


Abundance



Abundance Scan 321 (5.199 min): BN037131.D\data.ms (-29)

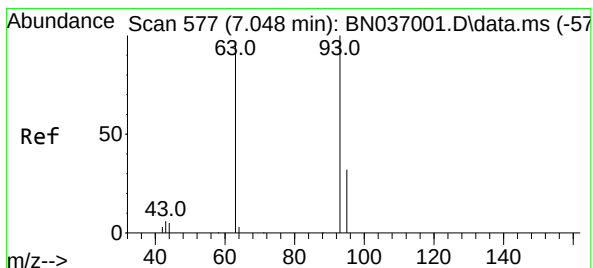
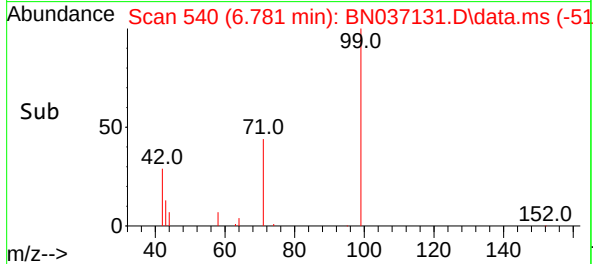
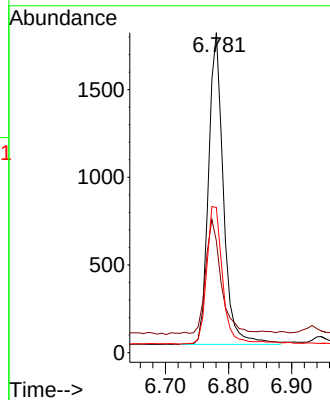
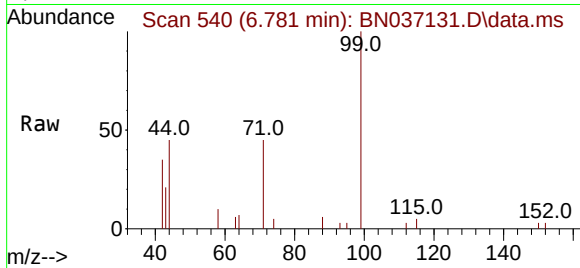




#5  
Phenol-d6  
Concen: 0.348 ng  
RT: 6.781 min Scan# 54  
Delta R.T. -0.014 min  
Lab File: BN037131.D  
Acq: 29 May 2025 12:51

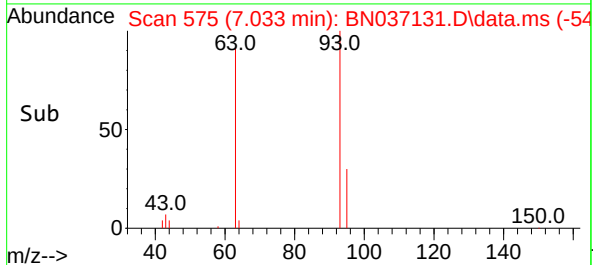
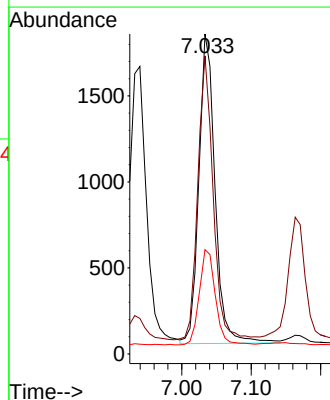
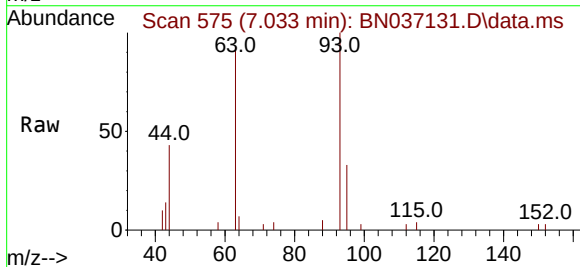
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

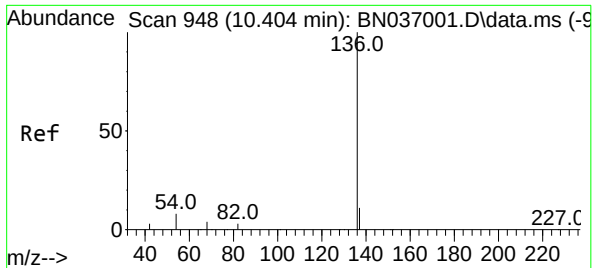
Tgt Ion: 99 Resp: 2907  
Ion Ratio Lower Upper  
99 100  
42 39.9 29.3 43.9  
71 48.0 35.7 53.5



#6  
bis(2-Chloroethyl)ether  
Concen: 0.380 ng  
RT: 7.033 min Scan# 575  
Delta R.T. -0.014 min  
Lab File: BN037131.D  
Acq: 29 May 2025 12:51

Tgt Ion: 93 Resp: 2925  
Ion Ratio Lower Upper  
93 100  
63 86.5 70.1 105.1  
95 30.5 26.2 39.2

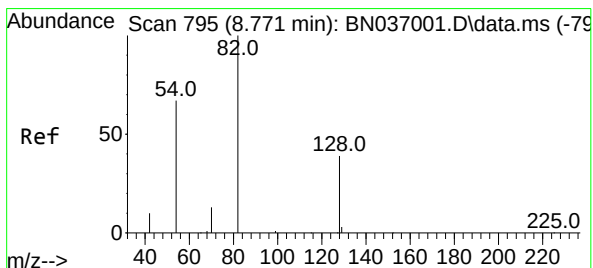
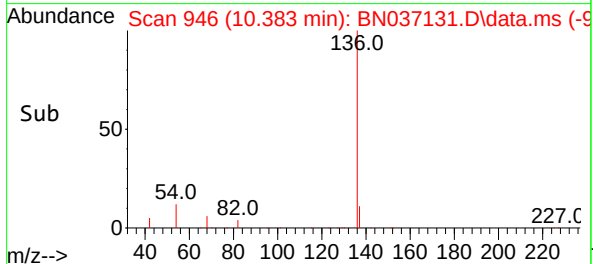
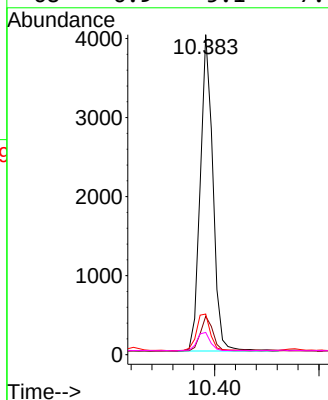
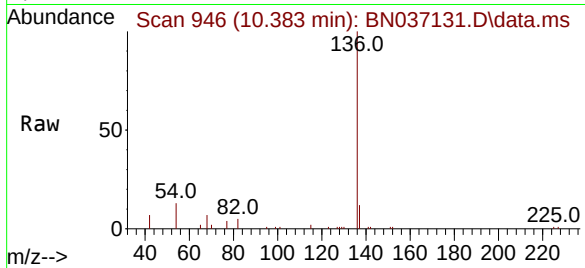




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.383 min Scan# 94  
Delta R.T. -0.021 min  
Lab File: BN037131.D  
Acq: 29 May 2025 12:51

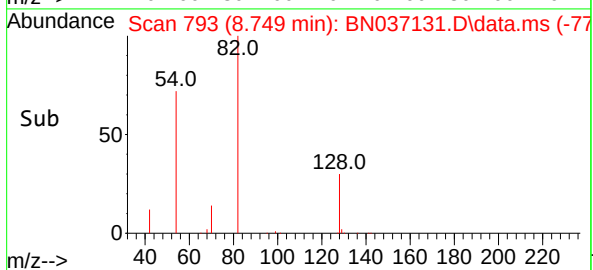
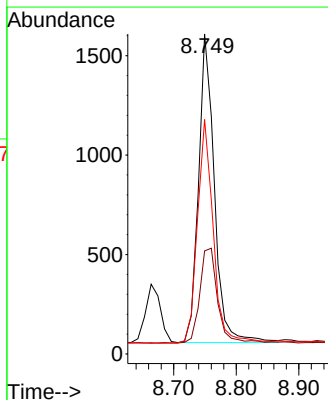
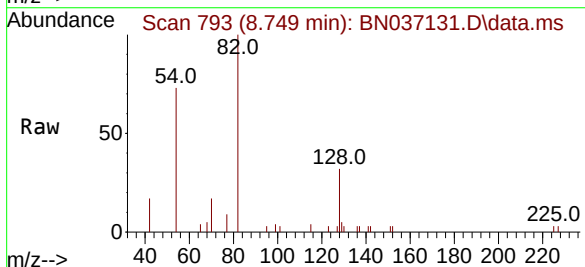
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

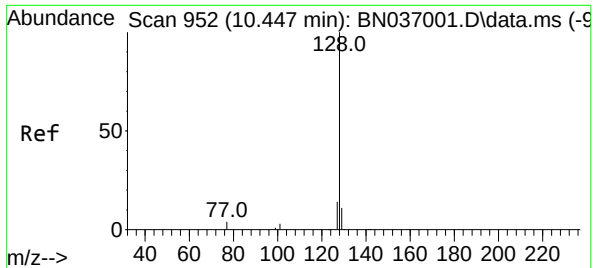
|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:136 | Resp: | 6694        |
| Ion         | Ratio | Lower Upper |
| 136         | 100   |             |
| 137         | 12.0  | 10.4 15.6   |
| 54          | 12.7  | 8.5 12.7    |
| 68          | 6.9   | 5.1 7.7     |



#8  
Nitrobenzene-d5  
Concen: 0.376 ng  
RT: 8.749 min Scan# 793  
Delta R.T. -0.021 min  
Lab File: BN037131.D  
Acq: 29 May 2025 12:51

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 82 | Resp: | 2739        |
| Ion         | Ratio | Lower Upper |
| 82          | 100   |             |
| 128         | 32.2  | 34.0 51.0#  |
| 54          | 73.3  | 55.0 82.4   |

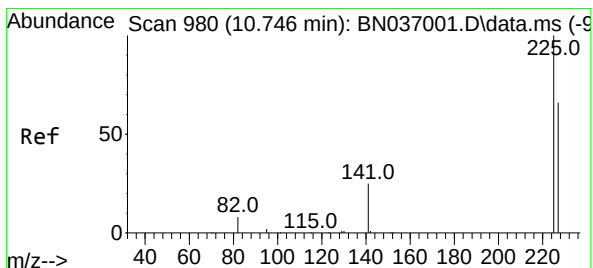
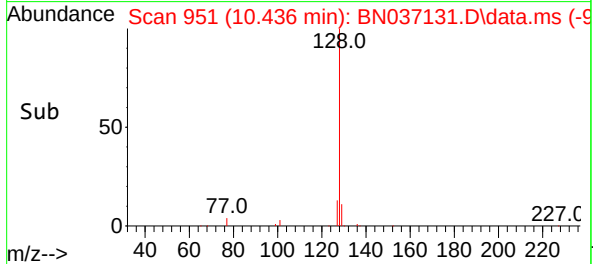
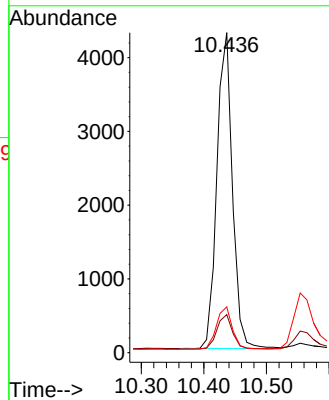
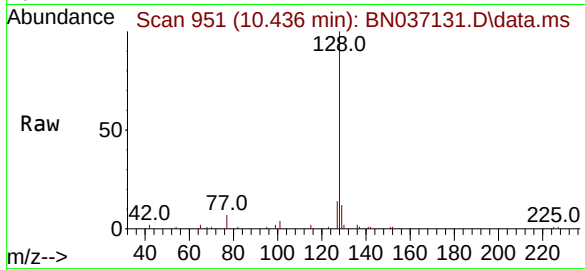




#9  
Naphthalene  
Concen: 0.373 ng  
RT: 10.436 min Scan# 91  
Delta R.T. -0.011 min  
Lab File: BN037131.D  
Acq: 29 May 2025 12:51

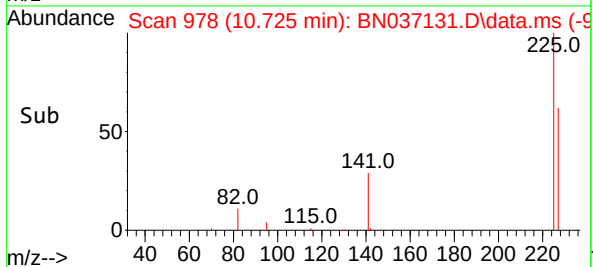
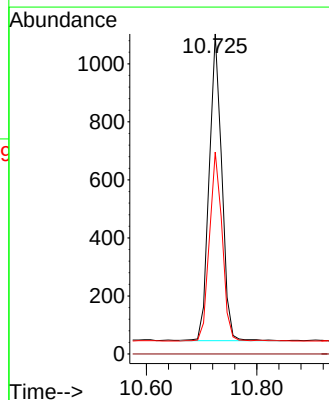
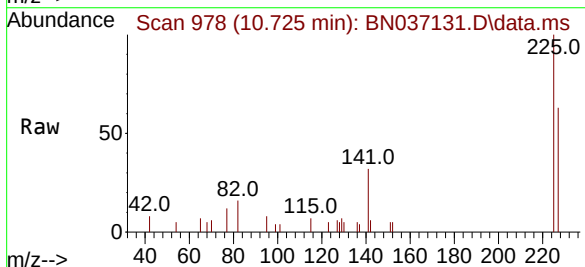
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

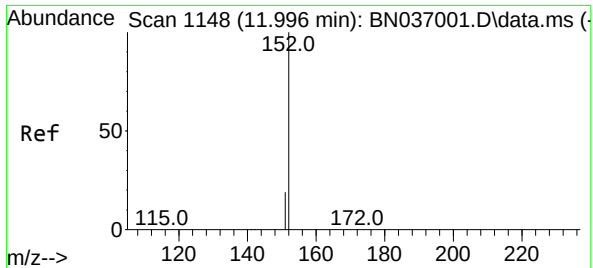
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 7383  |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 129      | 11.9  | 9.7   | 14.5  |
| 127      | 14.3  | 12.4  | 18.6  |



#10  
Hexachlorobutadiene  
Concen: 0.405 ng  
RT: 10.725 min Scan# 978  
Delta R.T. -0.021 min  
Lab File: BN037131.D  
Acq: 29 May 2025 12:51

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 225   | Resp: | 1680  |
| Ion      | Ratio | Lower | Upper |
| 225      | 100   |       |       |
| 223      | 0.0   | 0.0   | 0.0   |
| 227      | 61.9  | 50.9  | 76.3  |

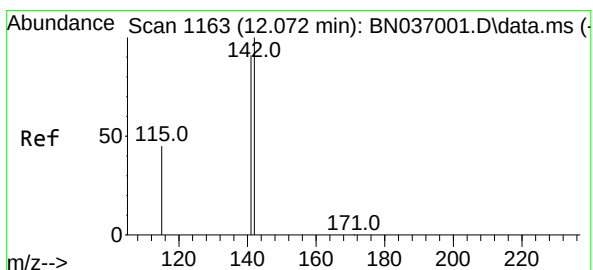
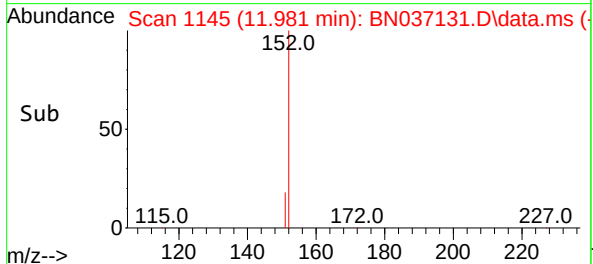
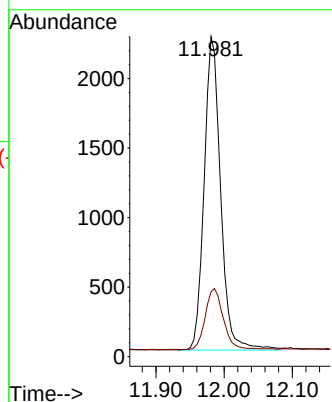
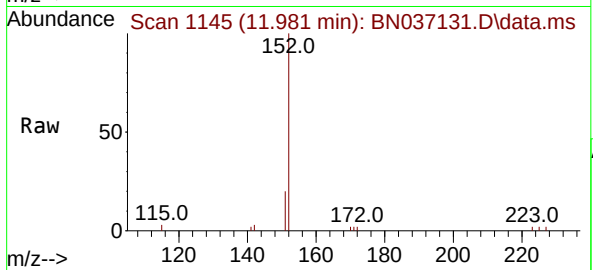




#11  
2-Methylnaphthalene-d10  
Concen: 0.403 ng  
RT: 11.981 min Scan# 1145  
Delta R.T. -0.015 min  
Lab File: BN037131.D  
Acq: 29 May 2025 12:51

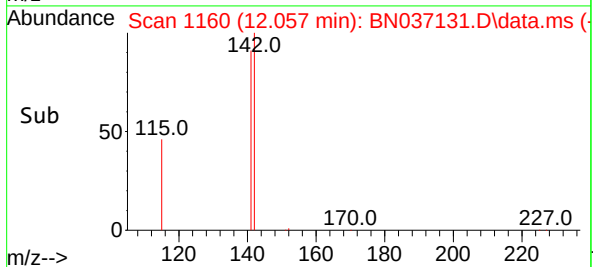
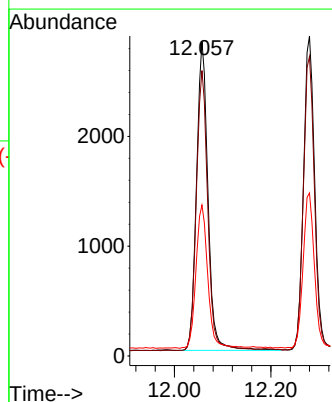
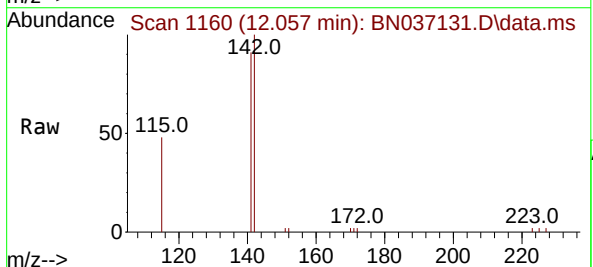
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

Tgt Ion:152 Resp: 3795  
Ion Ratio Lower Upper  
152 100  
151 21.1 17.5 26.3

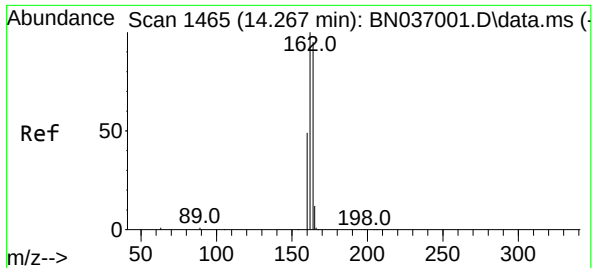


#12  
2-Methylnaphthalene  
Concen: 0.366 ng  
RT: 12.057 min Scan# 1160  
Delta R.T. -0.015 min  
Lab File: BN037131.D  
Acq: 29 May 2025 12:51

Tgt Ion:142 Resp: 4654  
Ion Ratio Lower Upper  
142 100  
141 90.8 73.3 109.9  
115 48.0 38.4 57.6



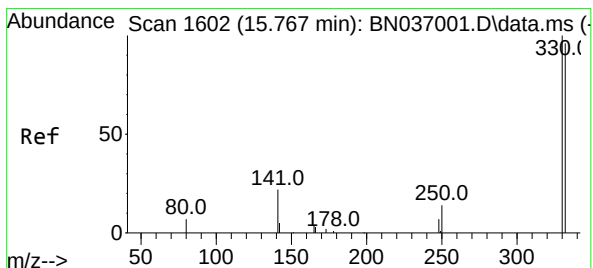
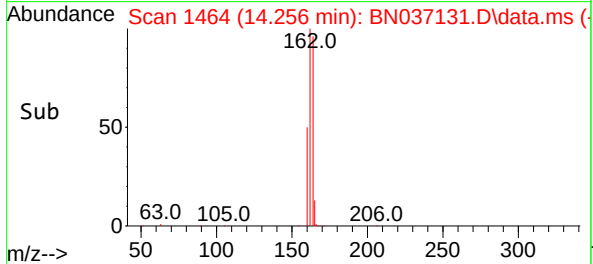
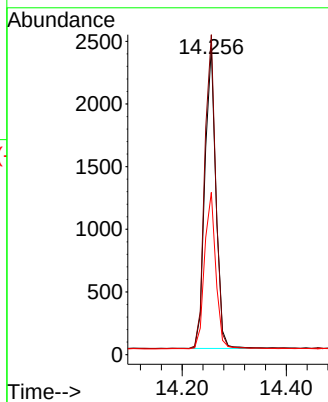
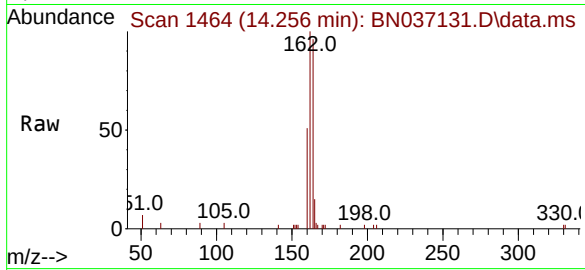




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.256 min Scan# 1464  
Delta R.T. -0.011 min  
Lab File: BN037131.D  
Acq: 29 May 2025 12:51

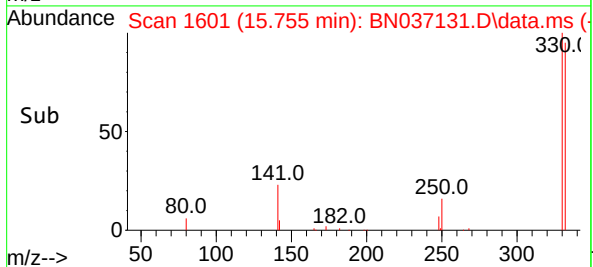
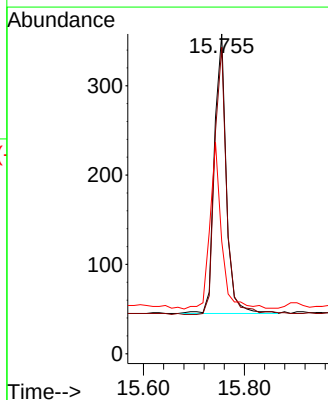
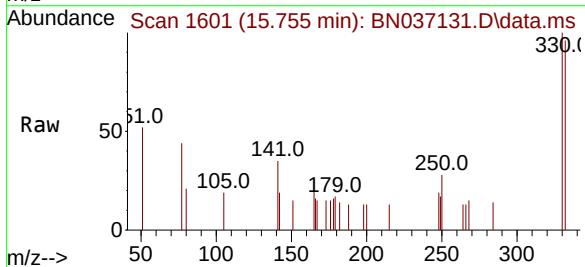
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

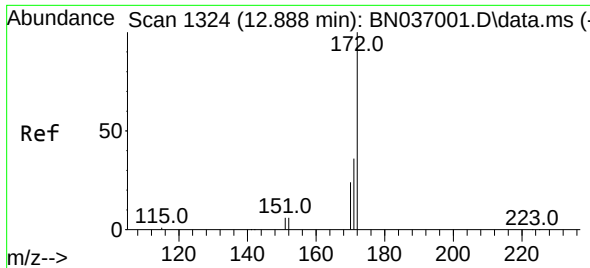
Tgt Ion:164 Resp: 3527  
Ion Ratio Lower Upper  
164 100  
162 104.2 84.2 126.4  
160 52.8 42.6 63.8



#14  
2,4,6-Tribromophenol  
Concen: 0.331 ng  
RT: 15.755 min Scan# 1601  
Delta R.T. -0.012 min  
Lab File: BN037131.D  
Acq: 29 May 2025 12:51

Tgt Ion:330 Resp: 512  
Ion Ratio Lower Upper  
330 100  
332 97.1 73.8 110.8  
141 59.4 43.9 65.9

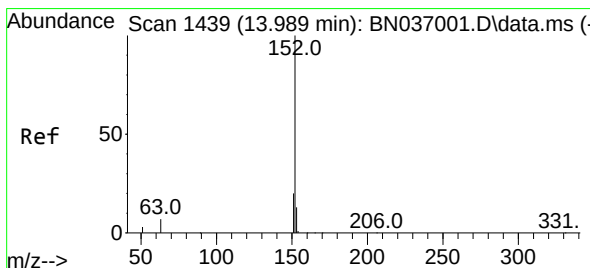
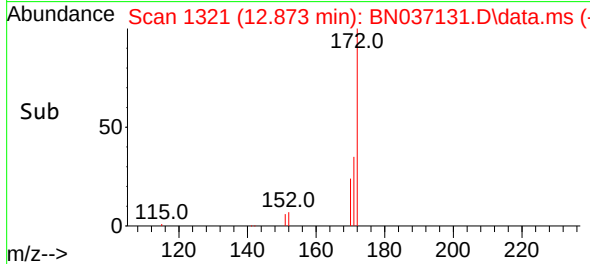
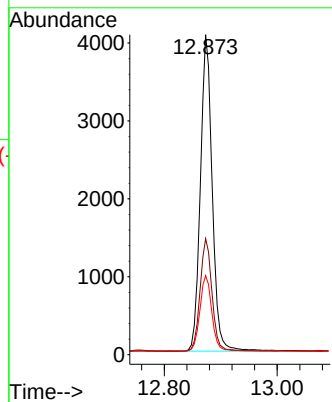
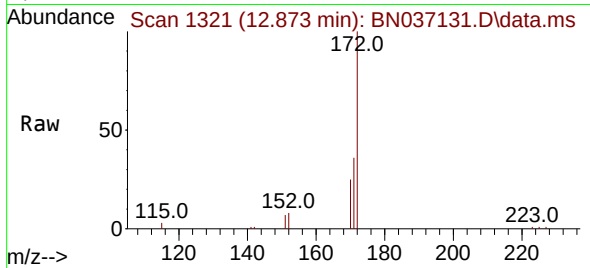




#15  
2-Fluorobiphenyl  
Concen: 0.368 ng  
RT: 12.873 min Scan# 11  
Delta R.T. -0.015 min  
Lab File: BN037131.D  
Acq: 29 May 2025 12:51

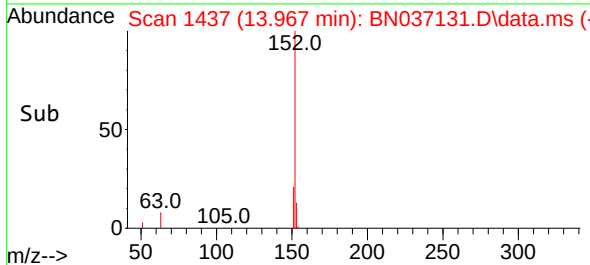
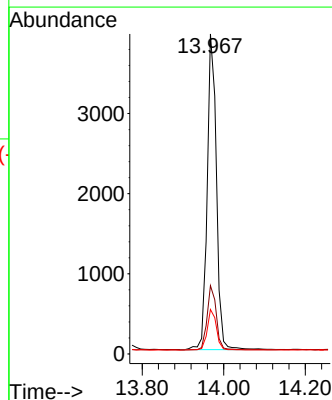
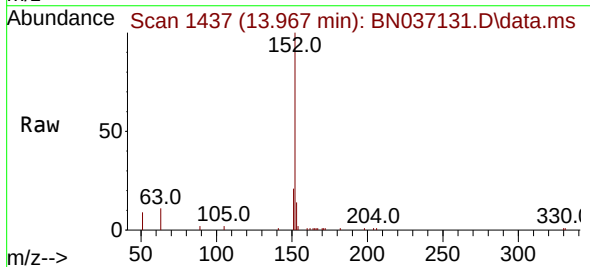
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

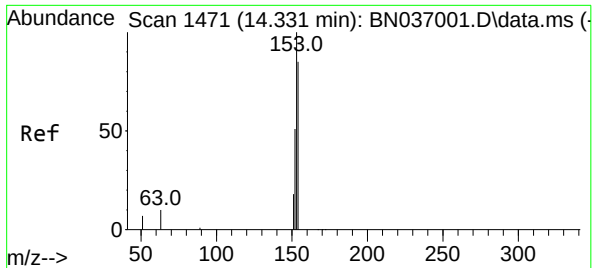
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.3  | 29.2  | 43.8  |
| 170     | 24.7  | 20.5  | 30.7  |



#16  
Acenaphthylene  
Concen: 0.362 ng  
RT: 13.967 min Scan# 1437  
Delta R.T. -0.021 min  
Lab File: BN037131.D  
Acq: 29 May 2025 12:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 20.0  | 16.1  | 24.1  |
| 153     | 13.2  | 10.5  | 15.7  |

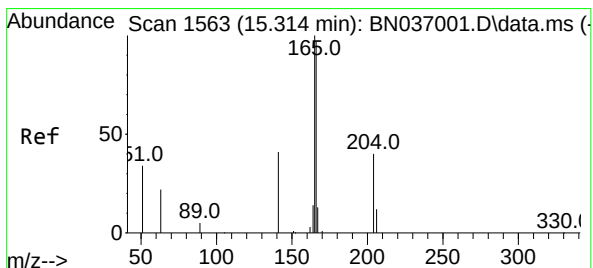
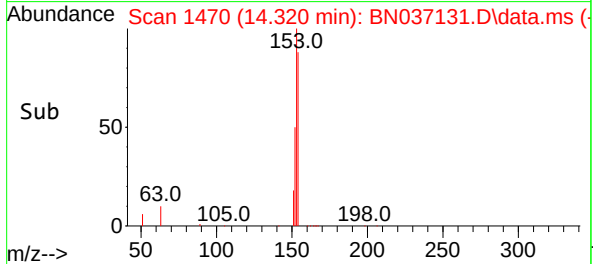
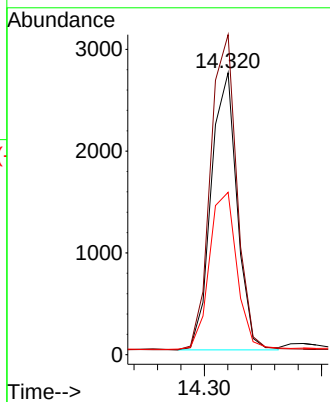
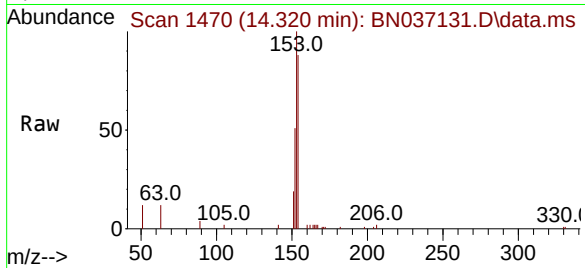




#17  
Acenaphthene  
Concen: 0.373 ng  
RT: 14.320 min Scan# 1471  
Delta R.T. -0.011 min  
Lab File: BN037131.D  
Acq: 29 May 2025 12:51

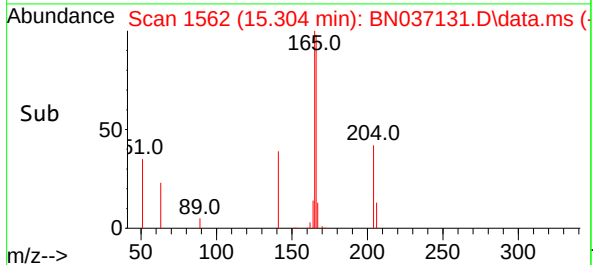
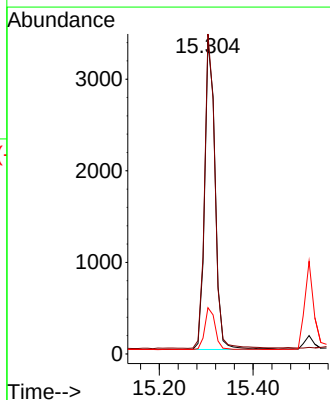
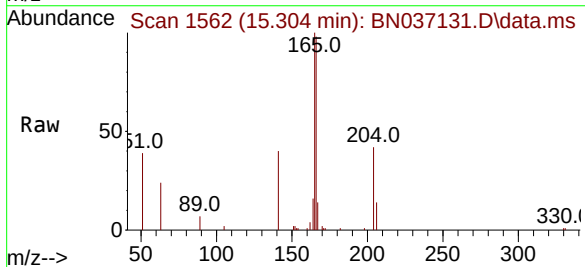
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

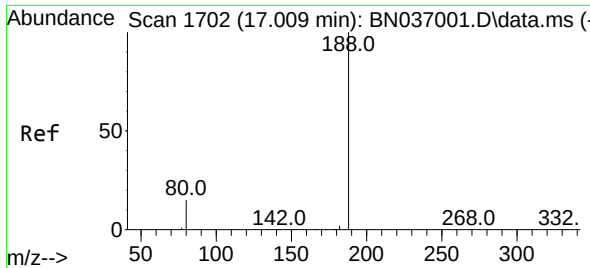
Tgt Ion:154 Resp: 4181  
Ion Ratio Lower Upper  
154 100  
153 115.7 94.2 141.4  
152 60.9 49.4 74.0



#18  
Fluorene  
Concen: 0.354 ng  
RT: 15.304 min Scan# 1562  
Delta R.T. -0.011 min  
Lab File: BN037131.D  
Acq: 29 May 2025 12:51

Tgt Ion:166 Resp: 5205  
Ion Ratio Lower Upper  
166 100  
165 100.5 80.6 120.8  
167 13.5 10.6 16.0

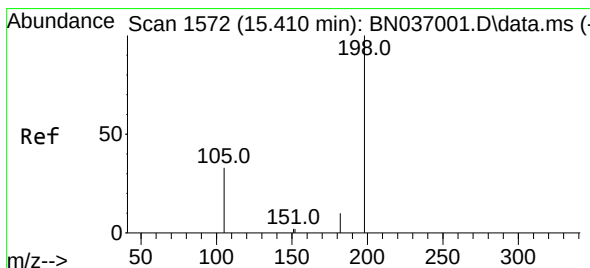
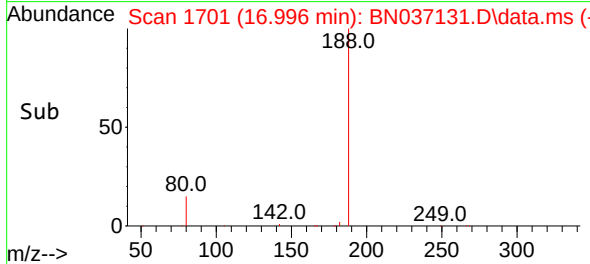
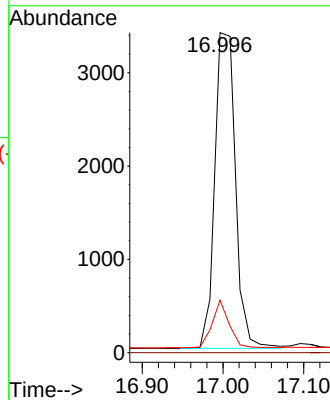
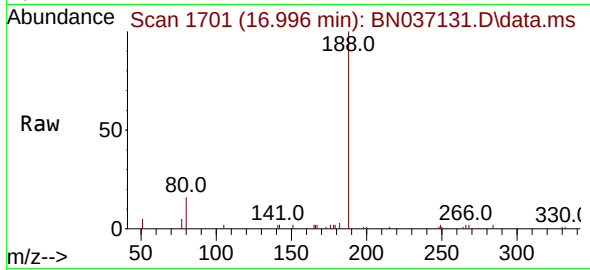




#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 16.996 min Scan# 11  
Delta R.T. -0.012 min  
Lab File: BN037131.D  
Acq: 29 May 2025 12:51

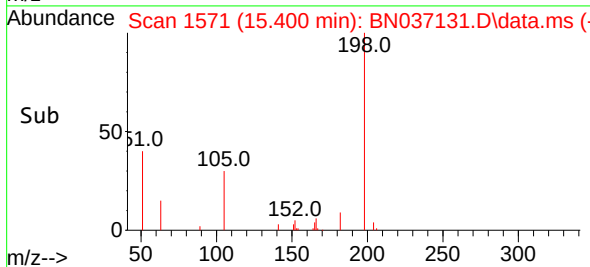
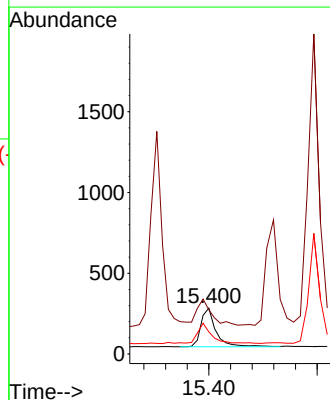
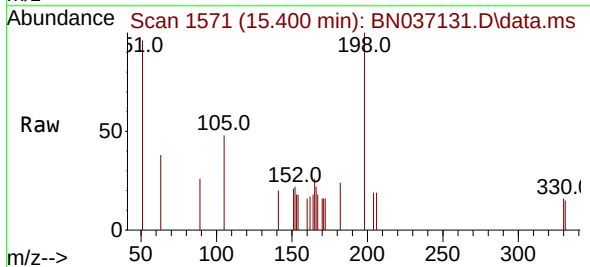
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

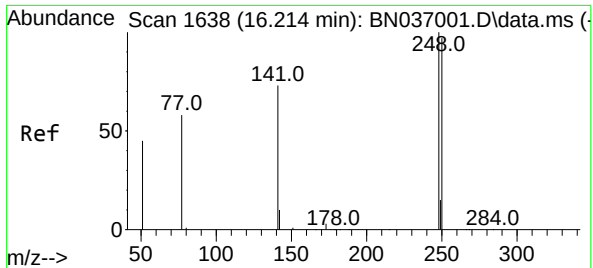
Tgt Ion:188 Resp: 6025  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 16.4 13.4 20.0



#20  
4,6-Dinitro-2-methylphenol  
Concen: 0.404 ng  
RT: 15.400 min Scan# 1571  
Delta R.T. -0.010 min  
Lab File: BN037131.D  
Acq: 29 May 2025 12:51

Tgt Ion:198 Resp: 471  
Ion Ratio Lower Upper  
198 100  
51 96.1 87.8 131.6  
105 48.1 44.2 66.4

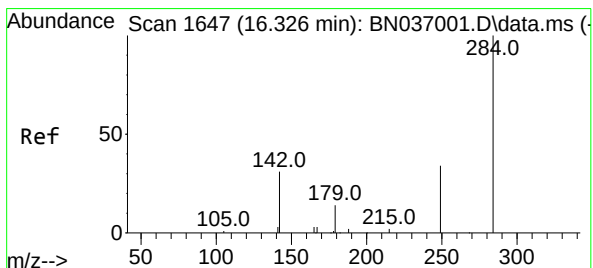
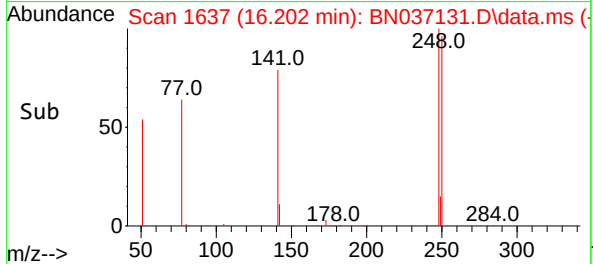
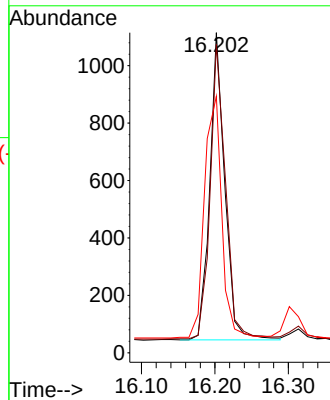
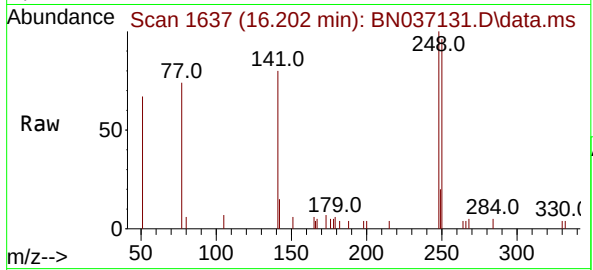




#21  
4-Bromophenyl-phenylether  
Concen: 0.400 ng  
RT: 16.202 min Scan# 1637  
Delta R.T. -0.012 min  
Lab File: BN037131.D  
Acq: 29 May 2025 12:51

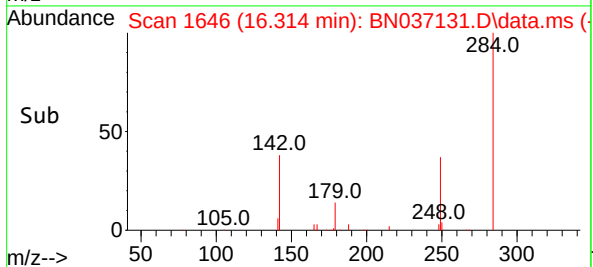
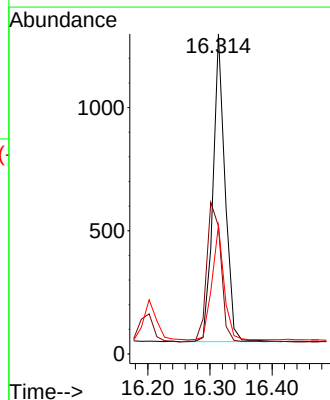
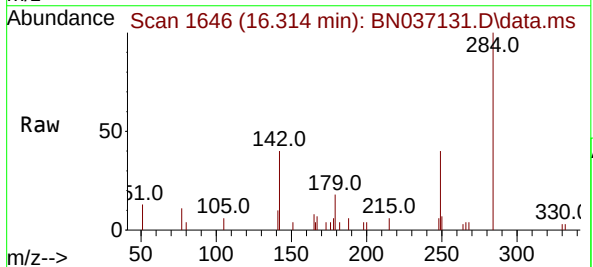
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

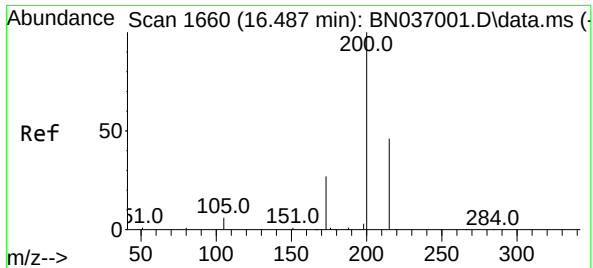
Tgt Ion:248 Resp: 1524  
Ion Ratio Lower Upper  
248 100  
250 96.3 78.1 117.1  
141 80.1 59.7 89.5



#22  
Hexachlorobenzene  
Concen: 0.413 ng  
RT: 16.314 min Scan# 1646  
Delta R.T. -0.012 min  
Lab File: BN037131.D  
Acq: 29 May 2025 12:51

Tgt Ion:284 Resp: 1684  
Ion Ratio Lower Upper  
284 100  
142 53.4 41.2 61.8  
249 37.3 28.7 43.1

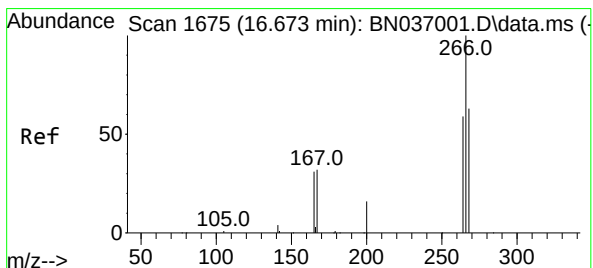
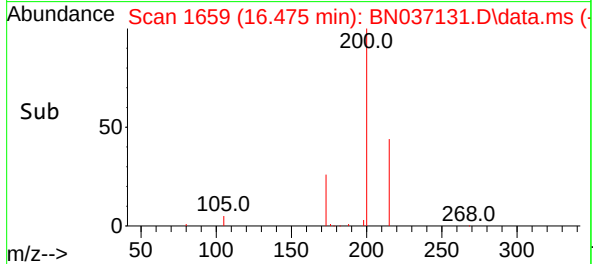
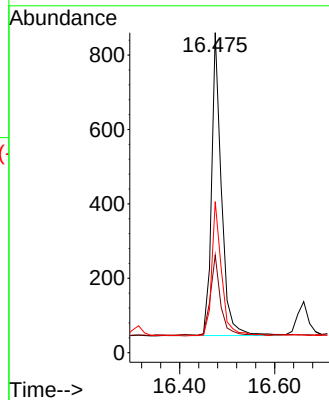
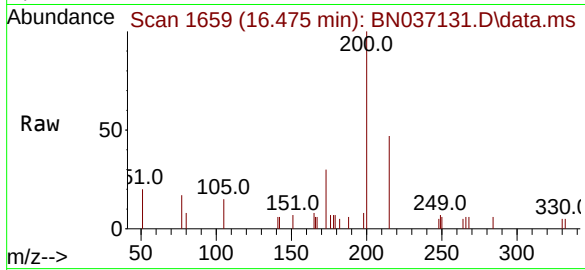




#23  
Atrazine  
Concen: 0.354 ng  
RT: 16.475 min Scan# 1659  
Delta R.T. -0.012 min  
Lab File: BN037131.D  
Acq: 29 May 2025 12:51

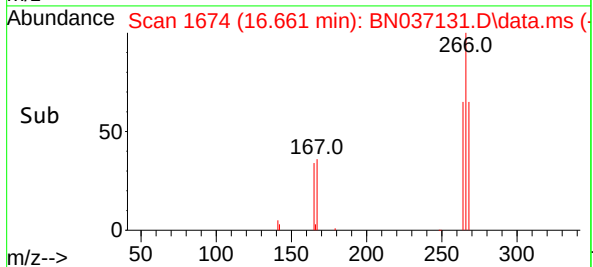
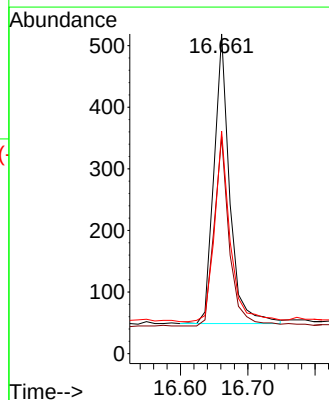
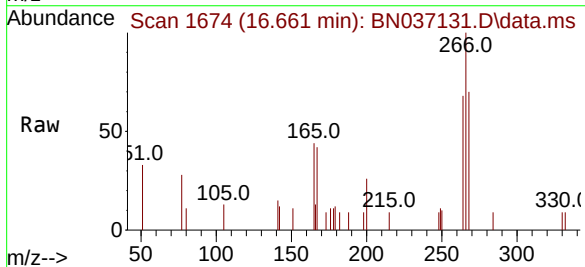
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

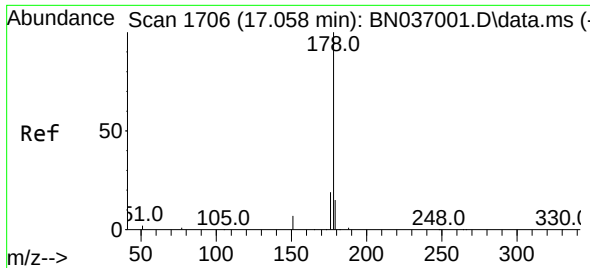
| Tgt Ion   | 200   | Resp: | 1175 |
|-----------|-------|-------|------|
| Ion Ratio | Lower | Upper |      |
| 200       | 100   |       |      |
| 173       | 30.5  | 25.2  | 37.8 |
| 215       | 47.2  | 39.3  | 58.9 |



#24  
Pentachlorophenol  
Concen: 0.338 ng  
RT: 16.661 min Scan# 1674  
Delta R.T. -0.012 min  
Lab File: BN037131.D  
Acq: 29 May 2025 12:51

| Tgt Ion   | 266   | Resp: | 760  |
|-----------|-------|-------|------|
| Ion Ratio | Lower | Upper |      |
| 266       | 100   |       |      |
| 264       | 64.5  | 47.9  | 71.9 |
| 268       | 64.5  | 50.0  | 75.0 |

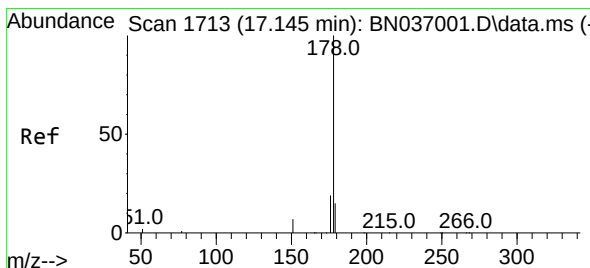
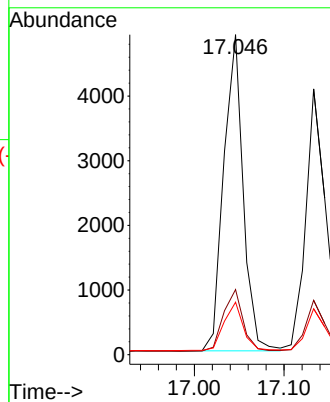
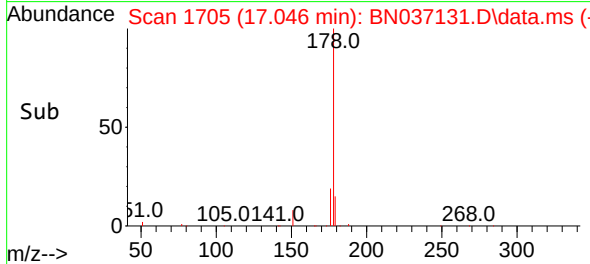
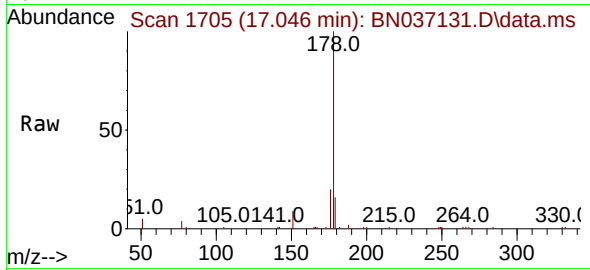




#25  
Phenanthrene  
Concen: 0.374 ng  
RT: 17.046 min Scan# 1712  
Delta R.T. -0.012 min  
Lab File: BN037131.D  
Acq: 29 May 2025 12:51

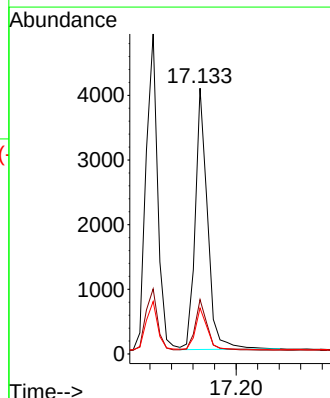
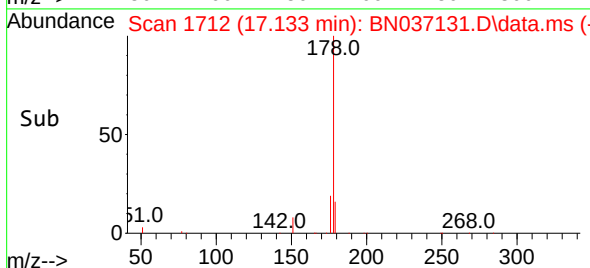
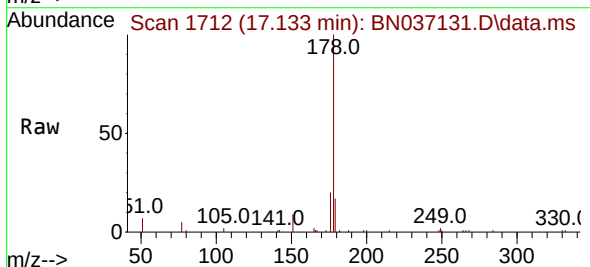
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

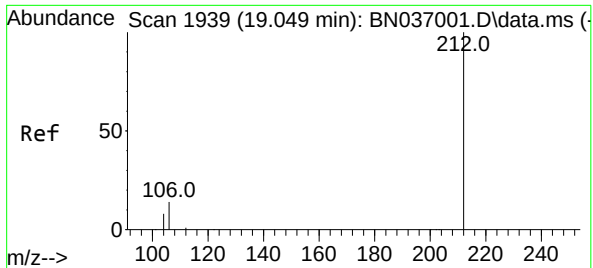
Tgt Ion:178 Resp: 7369  
Ion Ratio Lower Upper  
178 100  
176 19.9 15.7 23.5  
179 15.5 12.2 18.2



#26  
Anthracene  
Concen: 0.358 ng  
RT: 17.133 min Scan# 1712  
Delta R.T. -0.012 min  
Lab File: BN037131.D  
Acq: 29 May 2025 12:51

Tgt Ion:178 Resp: 6423  
Ion Ratio Lower Upper  
178 100  
176 19.3 15.0 22.6  
179 16.0 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.357 ng

RT: 19.040 min Scan# 1937

Delta R.T. -0.009 min

Lab File: BN037131.D

Acq: 29 May 2025 12:51

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC

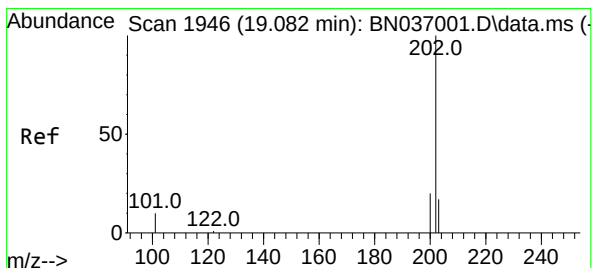
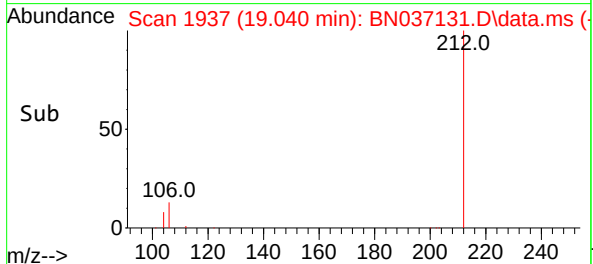
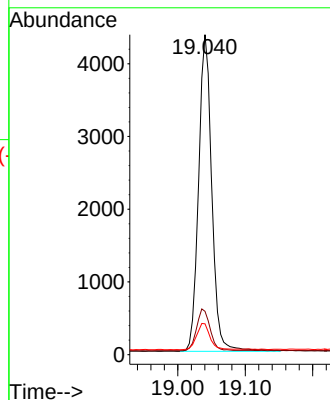
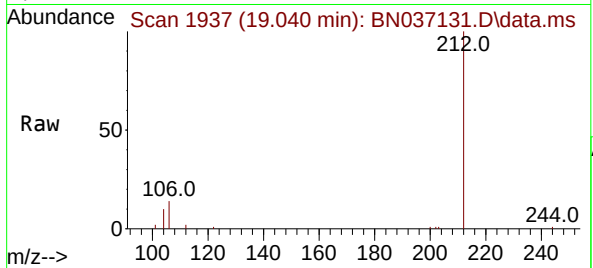
Tgt Ion:212 Resp: 5903

Ion Ratio Lower Upper

212 100

106 13.6 11.3 16.9

104 8.4 6.7 10.1



#28

Fluoranthene

Concen: 0.327 ng

RT: 19.073 min Scan# 1944

Delta R.T. -0.009 min

Lab File: BN037131.D

Acq: 29 May 2025 12:51

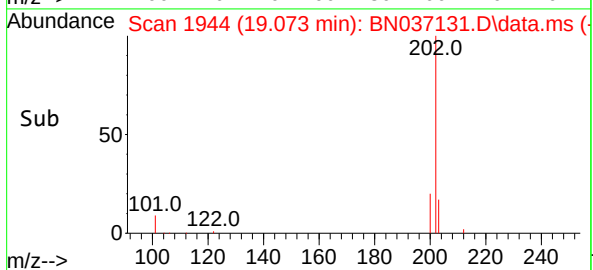
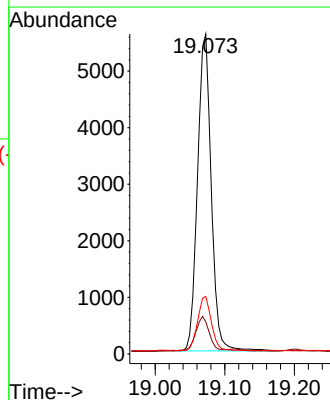
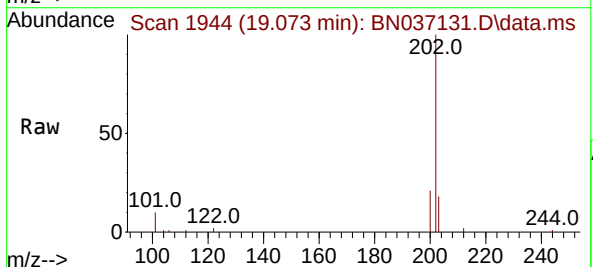
Tgt Ion:202 Resp: 7686

Ion Ratio Lower Upper

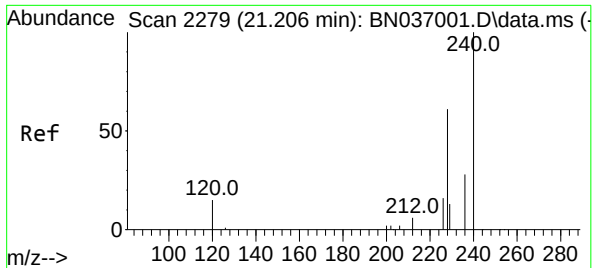
202 100

101 10.7 8.9 13.3

203 16.9 13.8 20.8







#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.198 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037131.D

Acq: 29 May 2025 12:51

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC

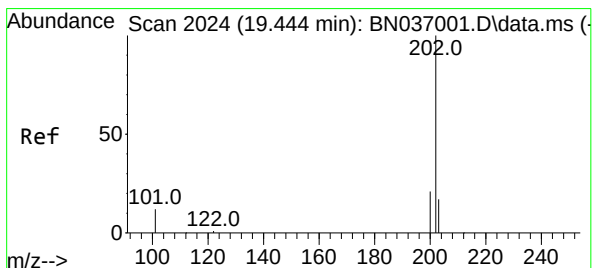
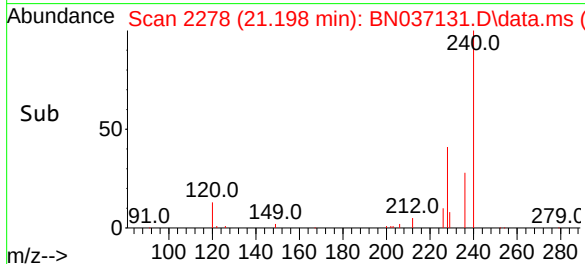
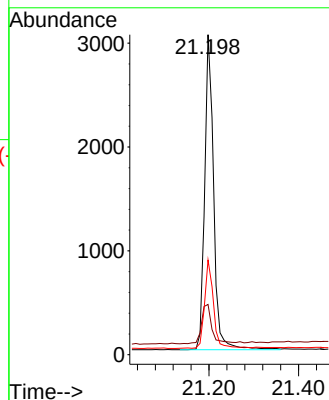
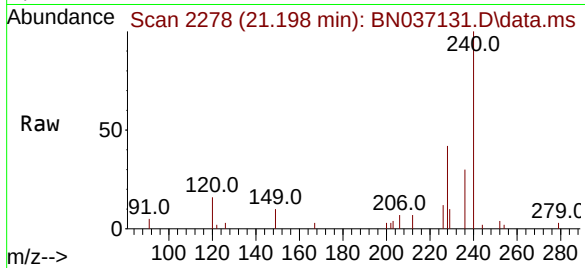
Tgt Ion:240 Resp: 4226

Ion Ratio Lower Upper

240 100

120 15.7 15.1 22.7

236 29.6 24.0 36.0



#30

Pyrene

Concen: 0.431 ng

RT: 19.435 min Scan# 2022

Delta R.T. -0.009 min

Lab File: BN037131.D

Acq: 29 May 2025 12:51

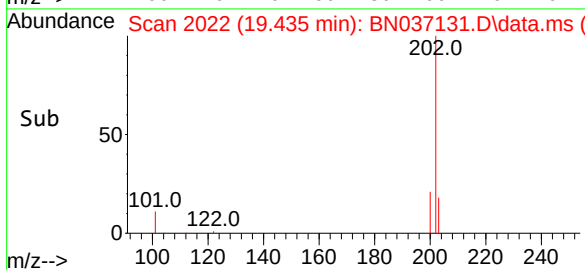
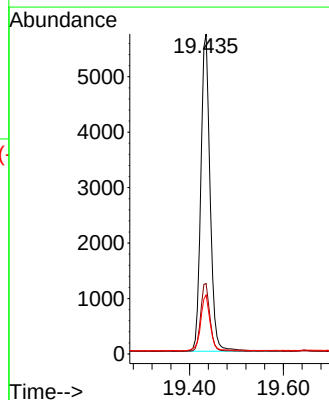
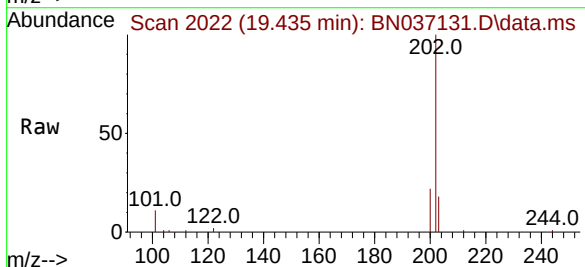
Tgt Ion:202 Resp: 7791

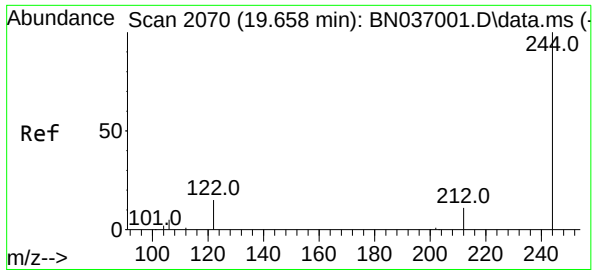
Ion Ratio Lower Upper

202 100

200 21.6 17.1 25.7

203 17.8 14.2 21.4

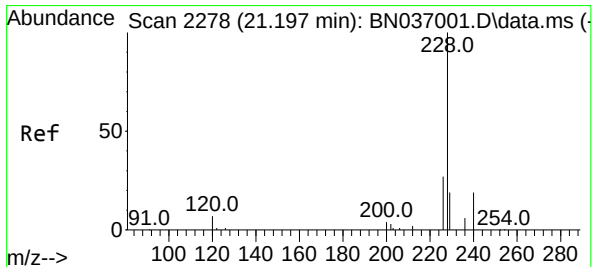
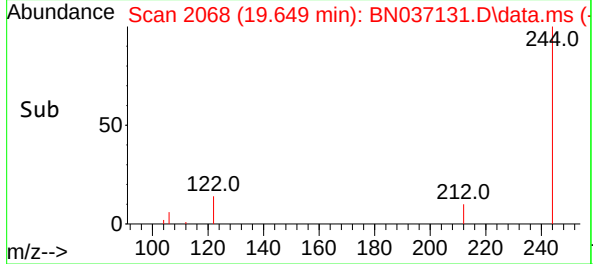
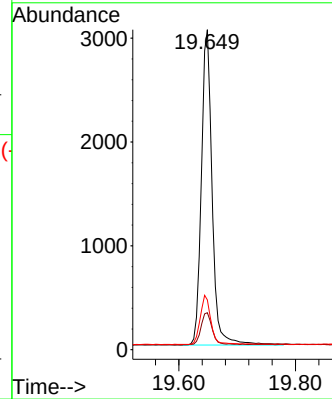
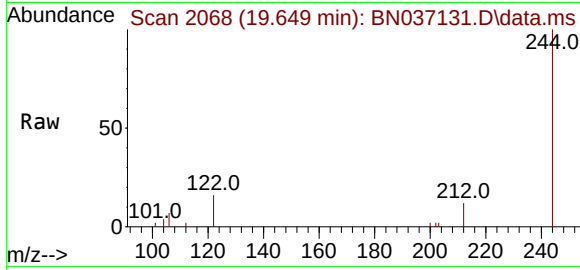




#31  
Terphenyl-d14  
Concen: 0.430 ng  
RT: 19.649 min Scan# 2070  
Delta R.T. -0.009 min  
Lab File: BN037131.D  
Acq: 29 May 2025 12:51

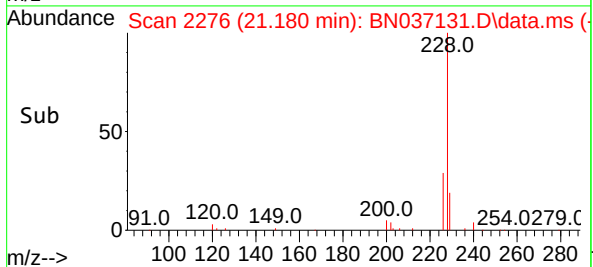
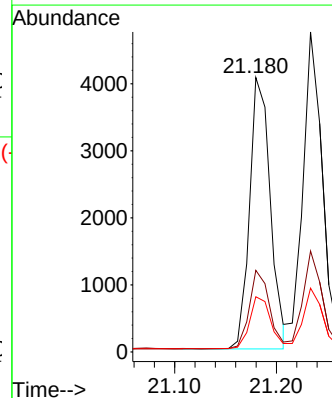
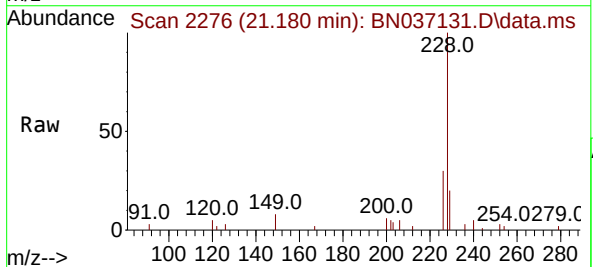
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

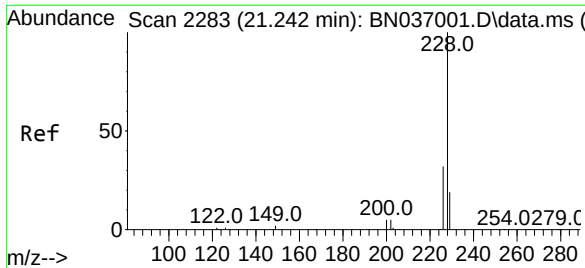
Tgt Ion:244 Resp: 3887  
Ion Ratio Lower Upper  
244 100  
212 11.6 9.7 14.5  
122 15.6 13.4 20.0



#32  
Benzo(a)anthracene  
Concen: 0.360 ng  
RT: 21.180 min Scan# 2276  
Delta R.T. -0.018 min  
Lab File: BN037131.D  
Acq: 29 May 2025 12:51

Tgt Ion:228 Resp: 5733  
Ion Ratio Lower Upper  
228 100  
226 29.7 22.2 33.4  
229 20.1 16.0 24.0

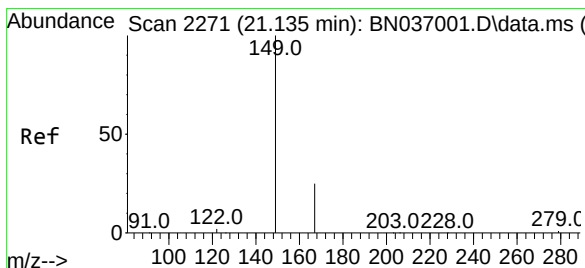
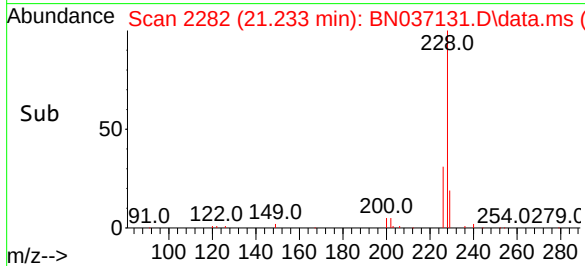
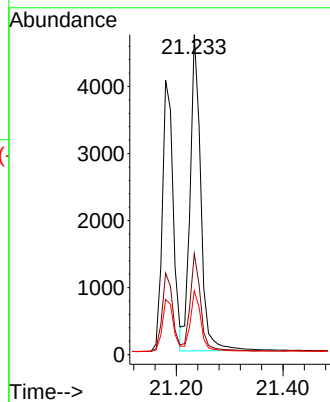
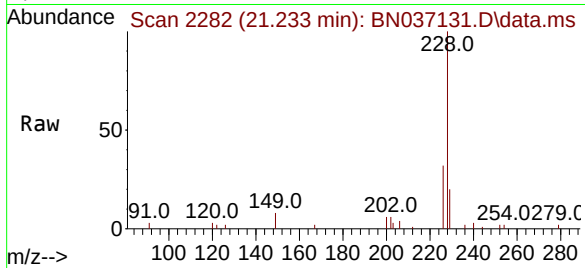




#33  
Chrysene  
Concen: 0.389 ng  
RT: 21.233 min Scan# 21  
Delta R.T. -0.009 min  
Lab File: BN037131.D  
Acq: 29 May 2025 12:51

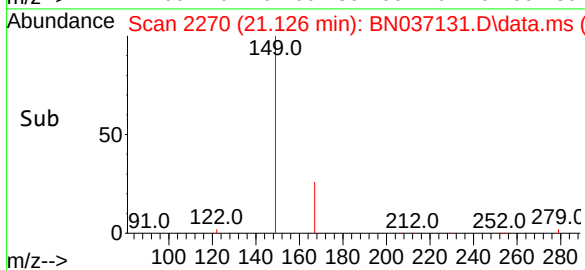
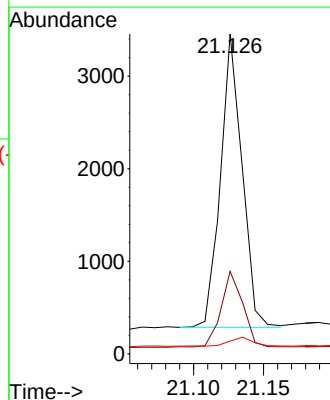
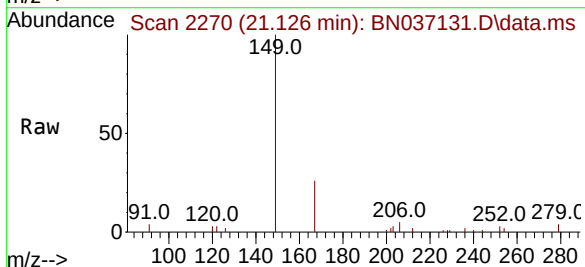
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

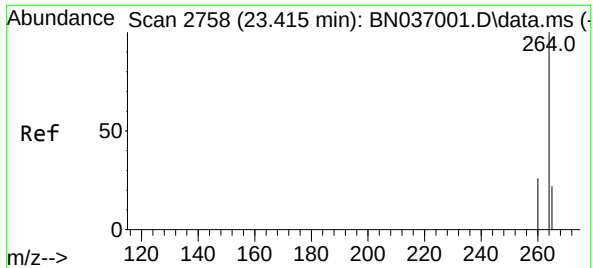
Tgt Ion:228 Resp: 6542  
Ion Ratio Lower Upper  
228 100  
226 31.6 26.3 39.5  
229 20.0 16.2 24.2



#34  
Bis(2-ethylhexyl)phthalate  
Concen: 0.347 ng  
RT: 21.126 min Scan# 2270  
Delta R.T. -0.009 min  
Lab File: BN037131.D  
Acq: 29 May 2025 12:51

Tgt Ion:149 Resp: 3396  
Ion Ratio Lower Upper  
149 100  
167 26.3 20.6 30.8  
279 3.3 2.6 3.8





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.398 min Scan# 21

Delta R.T. -0.017 min

Lab File: BN037131.D

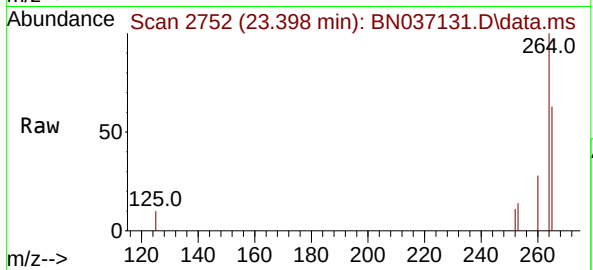
Acq: 29 May 2025 12:51

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC



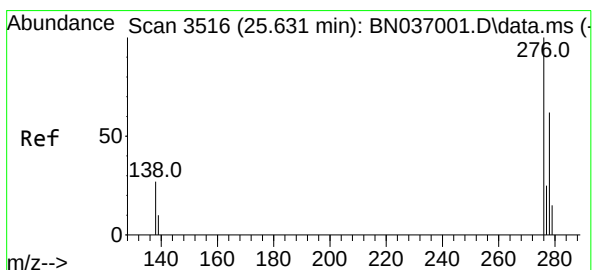
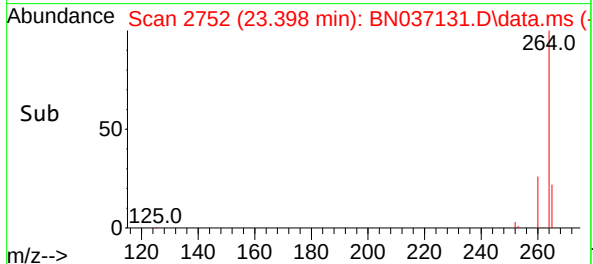
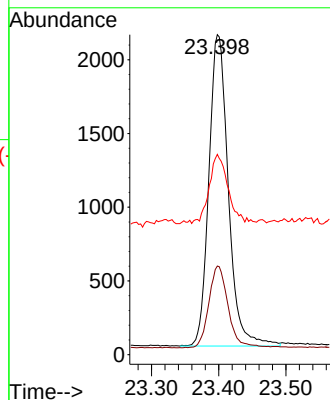
Tgt Ion:264 Resp: 4247

Ion Ratio Lower Upper

264 100

260 27.7 21.9 32.9

265 62.6 51.6 77.4



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.414 ng

RT: 25.605 min Scan# 3507

Delta R.T. -0.026 min

Lab File: BN037131.D

Acq: 29 May 2025 12:51

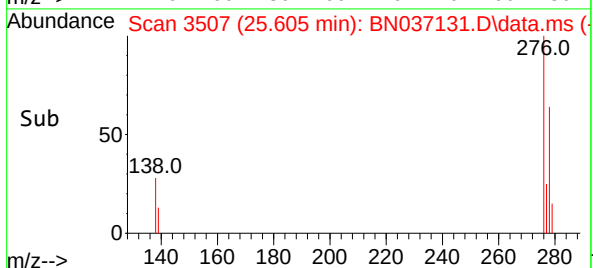
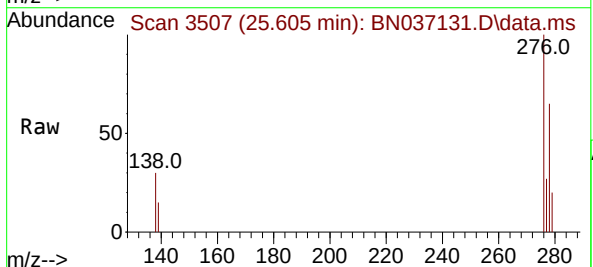
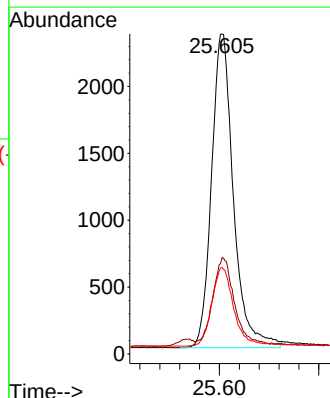
Tgt Ion:276 Resp: 7187

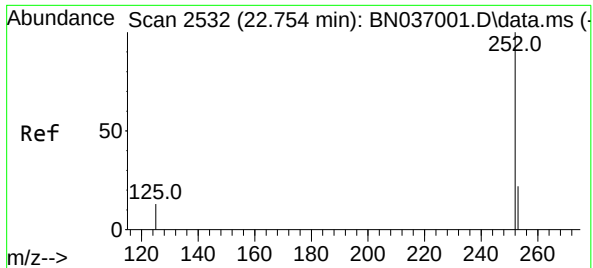
Ion Ratio Lower Upper

276 100

138 27.1 22.7 34.1

277 24.8 20.0 30.0

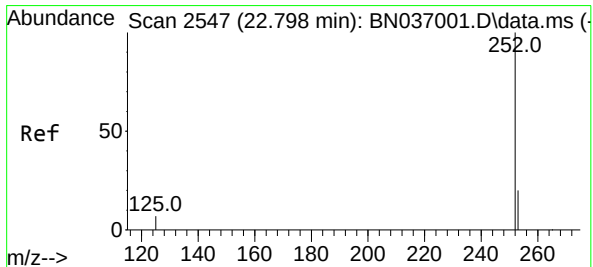
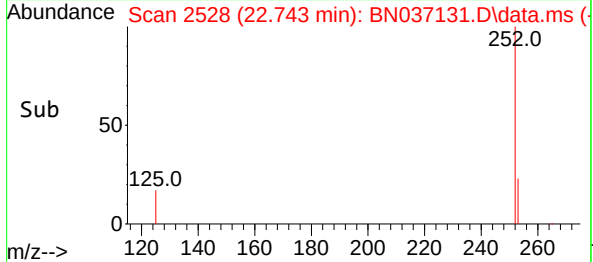
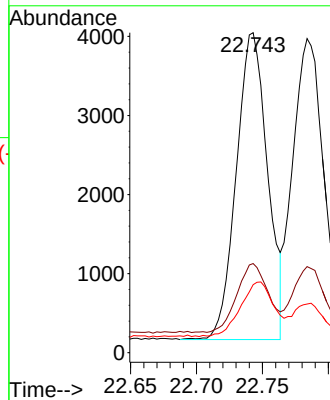
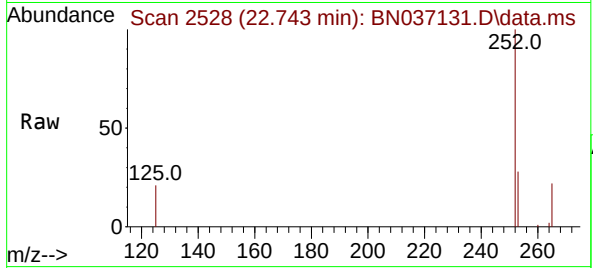




#37  
Benzo(b)fluoranthene  
Concen: 0.363 ng  
RT: 22.743 min Scan# 2532  
Delta R.T. -0.012 min  
Lab File: BN037131.D  
Acq: 29 May 2025 12:51

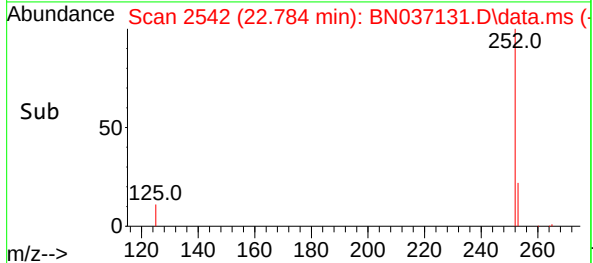
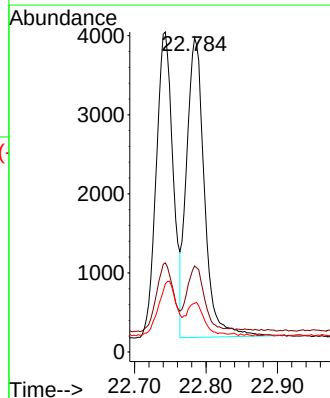
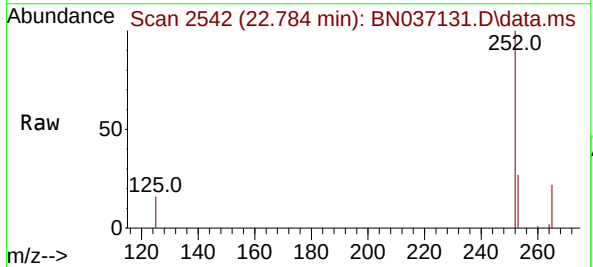
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

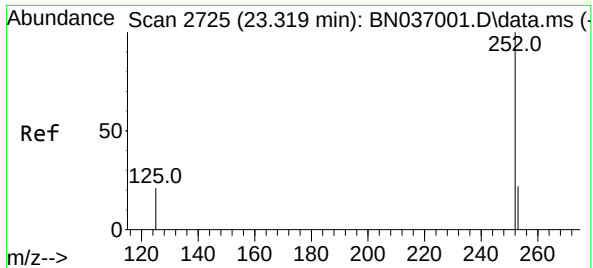
Tgt Ion:252 Resp: 6394  
Ion Ratio Lower Upper  
252 100  
253 27.8 21.8 32.6  
125 21.3 14.6 21.8



#38  
Benzo(k)fluoranthene  
Concen: 0.377 ng  
RT: 22.784 min Scan# 2542  
Delta R.T. -0.014 min  
Lab File: BN037131.D  
Acq: 29 May 2025 12:51

Tgt Ion:252 Resp: 6552  
Ion Ratio Lower Upper  
252 100  
253 27.4 21.4 32.2  
125 15.5 13.0 19.4





#39

Benzo(a)pyrene

Concen: 0.371 ng

RT: 23.304 min Scan# 21

Delta R.T. -0.014 min

Lab File: BN037131.D

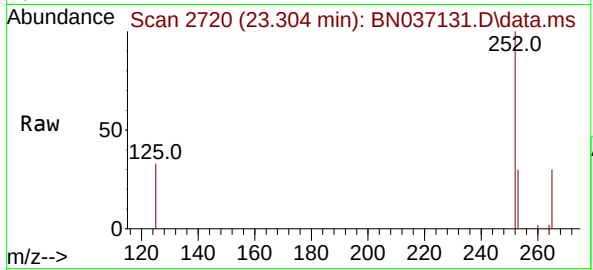
Acq: 29 May 2025 12:51

Instrument :

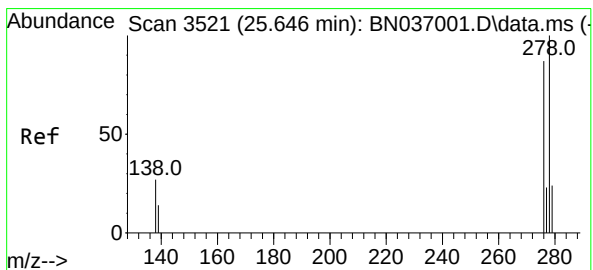
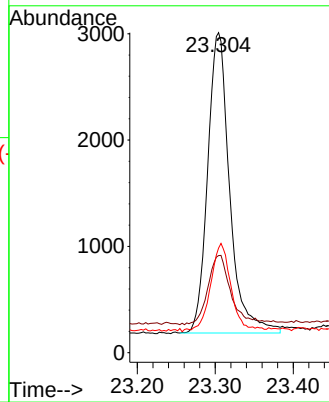
BNA\_N

ClientSampleId :

SSTDCCC0.4EC



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 5550  |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 30.4  | 23.8  | 35.6  |
| 125       | 32.7  | 21.8  | 32.6# |



#40

Dibenzo(a,h)anthracene

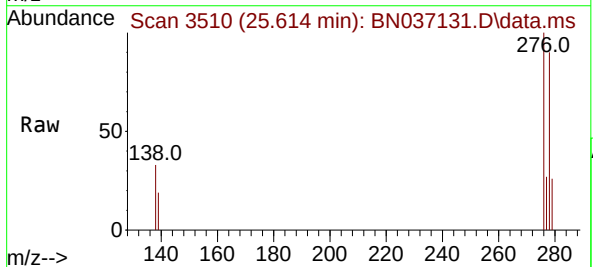
Concen: 0.405 ng

RT: 25.614 min Scan# 3510

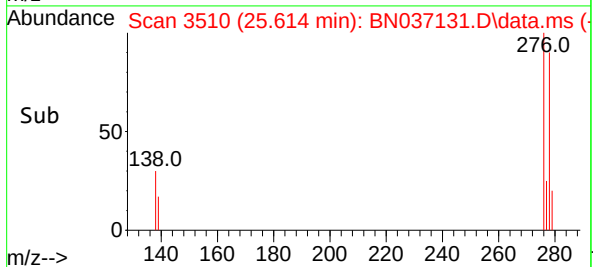
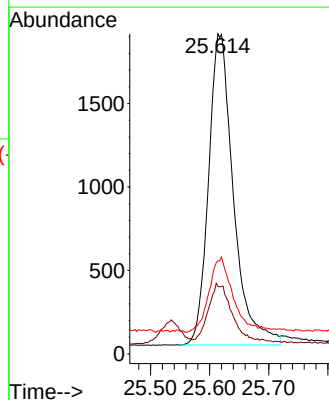
Delta R.T. -0.032 min

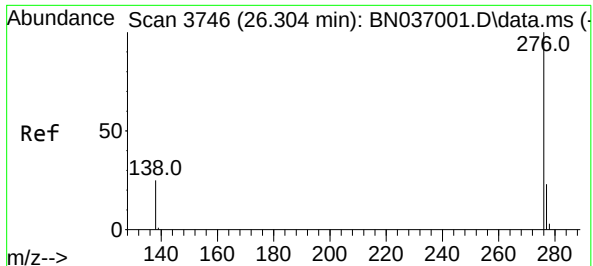
Lab File: BN037131.D

Acq: 29 May 2025 12:51



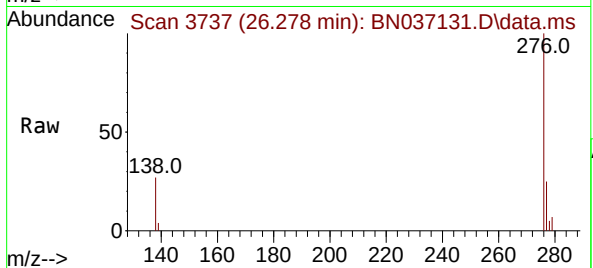
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 278   | Resp: | 5470 |
| Ion Ratio | Lower | Upper |      |
| 278       | 100   |       |      |
| 139       | 21.1  | 17.4  | 26.0 |
| 279       | 29.1  | 24.6  | 37.0 |



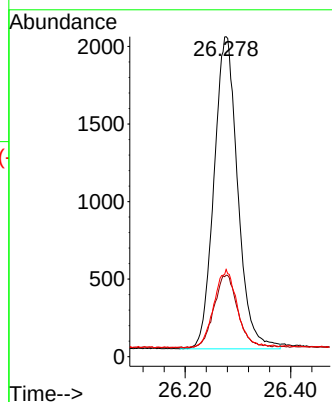
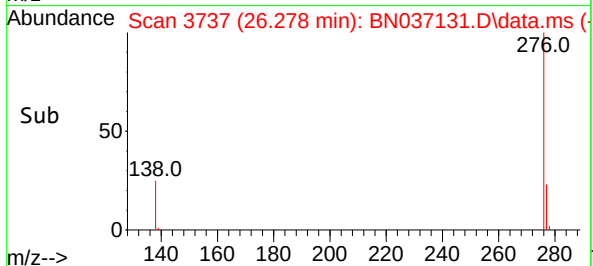


#41  
Benzo(g,h,i)perylene  
Concen: 0.429 ng  
RT: 26.278 min Scan# 31  
Delta R.T. -0.026 min  
Lab File: BN037131.D  
Acq: 29 May 2025 12:51

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC



Tgt Ion:276 Resp: 6291  
Ion Ratio Lower Upper  
276 100  
277 25.4 20.2 30.4  
138 27.2 22.0 33.0



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN052925\  
 Data File : BN037131.D  
 Acq On : 29 May 2025 12:51  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 LabSampleId :  
 SSTDCCC0.4

Quant Time: May 29 13:17:57 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN051425.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 14 11:26:32 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  | 147   | -0.01    |
| 2       | 1,4-Dioxane                | 0.491 | 0.465 | 5.3  | 134   | 0.00     |
| 3       | n-Nitrosodimethylamine     | 1.054 | 1.024 | 2.8  | 154#  | 0.00     |
| 4 S     | 2-Fluorophenol             | 1.048 | 0.964 | 8.0  | 125   | -0.01    |
| 5 S     | Phenol-d6                  | 1.311 | 1.140 | 13.0 | 121   | -0.01    |
| 6       | bis(2-Chloroethyl)ether    | 1.207 | 1.147 | 5.0  | 146   | -0.01    |
| 7 I     | Naphthalene-d8             | 1.000 | 1.000 | 0.0  | 146   | -0.02    |
| 8 S     | Nitrobenzene-d5            | 0.436 | 0.409 | 6.2  | 150   | -0.02    |
| 9       | Naphthalene                | 1.182 | 1.103 | 6.7  | 141   | -0.01    |
| 10      | Hexachlorobutadiene        | 0.248 | 0.251 | -1.2 | 150#  | -0.02    |
| 11 SURR | 2-Methylnaphthalene-d10    | 0.563 | 0.567 | -0.7 | 150   | -0.02    |
| 12      | 2-Methylnaphthalene        | 0.760 | 0.695 | 8.6  | 138   | -0.02    |
| 13 I    | Acenaphthene-d10           | 1.000 | 1.000 | 0.0  | 138   | -0.01    |
| 14 S    | 2,4,6-Tribromophenol       | 0.176 | 0.145 | 17.6 | 113   | -0.01    |
| 15 S    | 2-Fluorobiphenyl           | 1.832 | 1.686 | 8.0  | 122   | -0.02    |
| 16      | Acenaphthylene             | 1.947 | 1.763 | 9.5  | 128   | -0.02    |
| 17      | Acenaphthene               | 1.272 | 1.185 | 6.8  | 131   | -0.01    |
| 18      | Fluorene                   | 1.669 | 1.476 | 11.6 | 124   | -0.01    |
| 19 I    | Phenanthrene-d10           | 1.000 | 1.000 | 0.0  | 120   | -0.01    |
| 20      | 4,6-Dinitro-2-methylphenol | 0.090 | 0.078 | 13.3 | 128   | -0.01    |
| 21      | 4-Bromophenyl-phenylether  | 0.253 | 0.253 | 0.0  | 122   | -0.01    |
| 22      | Hexachlorobenzene          | 0.270 | 0.280 | -3.7 | 120   | -0.01    |
| 23      | Atrazine                   | 0.220 | 0.195 | 11.4 | 111   | -0.01    |
| 24      | Pentachlorophenol          | 0.149 | 0.126 | 15.4 | 108   | -0.01    |
| 25      | Phenanthrene               | 1.307 | 1.223 | 6.4  | 114   | -0.01    |
| 26      | Anthracene                 | 1.190 | 1.066 | 10.4 | 110   | -0.01    |
| 27 SURR | Fluoranthene-d10           | 1.097 | 0.980 | 10.7 | 109   | 0.00     |
| 28      | Fluoranthene               | 1.562 | 1.276 | 18.3 | 102   | 0.00     |
| 29 I    | Chrysene-d12               | 1.000 | 1.000 | 0.0  | 95    | 0.00     |
| 30      | Pyrene                     | 1.711 | 1.844 | -7.8 | 101   | 0.00     |
| 31 S    | Terphenyl-d14              | 0.856 | 0.920 | -7.5 | 100   | 0.00     |
| 32      | Benzo(a)anthracene         | 1.506 | 1.357 | 9.9  | 87    | -0.02    |
| 33      | Chrysene                   | 1.593 | 1.548 | 2.8  | 91    | 0.00     |
| 34      | Bis(2-ethylhexyl)phthalate | 0.927 | 0.804 | 13.3 | 84    | 0.00     |
| 35 I    | Perylene-d12               | 1.000 | 1.000 | 0.0  | 94    | -0.02    |
| 36      | Indeno(1,2,3-cd)pyrene     | 1.634 | 1.692 | -3.5 | 97    | -0.03    |
| 37      | Benzo(b)fluoranthene       | 1.659 | 1.506 | 9.2  | 88    | -0.01    |
| 38      | Benzo(k)fluoranthene       | 1.639 | 1.543 | 5.9  | 88    | -0.01    |
| 39 C    | Benzo(a)pyrene             | 1.407 | 1.307 | 7.1  | 89    | -0.01    |
| 40      | Dibenzo(a,h)anthracene     | 1.272 | 1.288 | -1.3 | 95    | -0.03    |
| 41      | Benzo(g,h,i)perylene       | 1.383 | 1.481 | -7.1 | 98    | -0.03    |

(#) = Out of Range

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



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN052925\  
 Data File : BN037131.D  
 Acq On : 29 May 2025 12:51  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 LabSampleId :  
 SSTDCCC0.4

Quant Time: May 29 13:17:57 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN051425.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 14 11:26:32 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  | 147   | -0.01    |
| 2       | 1,4-Dioxane                | 0.400  | 0.379 | 5.3  | 134   | 0.00     |
| 3       | n-Nitrosodimethylamine     | 0.400  | 0.388 | 3.0  | 154   | 0.00     |
| 4 S     | 2-Fluorophenol             | 0.400  | 0.368 | 8.0  | 125   | -0.01    |
| 5 S     | Phenol-d6                  | 0.400  | 0.348 | 13.0 | 121   | -0.01    |
| 6       | bis(2-Chloroethyl)ether    | 0.400  | 0.380 | 5.0  | 146   | -0.01    |
| 7 I     | Naphthalene-d8             | 0.400  | 0.400 | 0.0  | 146   | -0.02    |
| 8 S     | Nitrobenzene-d5            | 0.400  | 0.376 | 6.0  | 150   | -0.02    |
| 9       | Naphthalene                | 0.400  | 0.373 | 6.8  | 141   | -0.01    |
| 10      | Hexachlorobutadiene        | 0.400  | 0.405 | -1.3 | 150   | -0.02    |
| 11 SURR | 2-Methylnaphthalene-d10    | 0.400  | 0.403 | -0.8 | 150   | -0.02    |
| 12      | 2-Methylnaphthalene        | 0.400  | 0.366 | 8.5  | 138   | -0.02    |
| 13 I    | Acenaphthene-d10           | 0.400  | 0.400 | 0.0  | 138   | -0.01    |
| 14 S    | 2,4,6-Tribromophenol       | 0.400  | 0.331 | 17.3 | 113   | -0.01    |
| 15 S    | 2-Fluorobiphenyl           | 0.400  | 0.368 | 8.0  | 122   | -0.02    |
| 16      | Acenaphthylene             | 0.400  | 0.362 | 9.5  | 128   | -0.02    |
| 17      | Acenaphthene               | 0.400  | 0.373 | 6.8  | 131   | -0.01    |
| 18      | Fluorene                   | 0.400  | 0.354 | 11.5 | 124   | -0.01    |
| 19 I    | Phenanthrene-d10           | 0.400  | 0.400 | 0.0  | 120   | -0.01    |
| 20      | 4,6-Dinitro-2-methylphenol | 0.400  | 0.404 | -1.0 | 128   | -0.01    |
| 21      | 4-Bromophenyl-phenylether  | 0.400  | 0.400 | 0.0  | 122   | -0.01    |
| 22      | Hexachlorobenzene          | 0.400  | 0.413 | -3.2 | 120   | -0.01    |
| 23      | Atrazine                   | 0.400  | 0.354 | 11.5 | 111   | -0.01    |
| 24      | Pentachlorophenol          | 0.400  | 0.338 | 15.5 | 108   | -0.01    |
| 25      | Phenanthrene               | 0.400  | 0.374 | 6.5  | 114   | -0.01    |
| 26      | Anthracene                 | 0.400  | 0.358 | 10.5 | 110   | -0.01    |
| 27 SURR | Fluoranthene-d10           | 0.400  | 0.357 | 10.8 | 109   | 0.00     |
| 28      | Fluoranthene               | 0.400  | 0.327 | 18.3 | 102   | 0.00     |
| 29 I    | Chrysene-d12               | 0.400  | 0.400 | 0.0  | 95    | 0.00     |
| 30      | Pyrene                     | 0.400  | 0.431 | -7.7 | 101   | 0.00     |
| 31 S    | Terphenyl-d14              | 0.400  | 0.430 | -7.5 | 100   | 0.00     |
| 32      | Benzo(a)anthracene         | 0.400  | 0.360 | 10.0 | 87    | -0.02    |
| 33      | Chrysene                   | 0.400  | 0.389 | 2.8  | 91    | 0.00     |
| 34      | Bis(2-ethylhexyl)phthalate | 0.400  | 0.347 | 13.3 | 84    | 0.00     |
| 35 I    | Perylene-d12               | 0.400  | 0.400 | 0.0  | 94    | -0.02    |
| 36      | Indeno(1,2,3-cd)pyrene     | 0.400  | 0.414 | -3.5 | 97    | -0.03    |
| 37      | Benzo(b)fluoranthene       | 0.400  | 0.363 | 9.3  | 88    | -0.01    |
| 38      | Benzo(k)fluoranthene       | 0.400  | 0.377 | 5.8  | 88    | -0.01    |
| 39 C    | Benzo(a)pyrene             | 0.400  | 0.371 | 7.3  | 89    | -0.01    |
| 40      | Dibenzo(a,h)anthracene     | 0.400  | 0.405 | -1.3 | 95    | -0.03    |
| 41      | Benzo(g,h,i)perylene       | 0.400  | 0.429 | -7.2 | 98    | -0.03    |

(#) = Out of Range

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



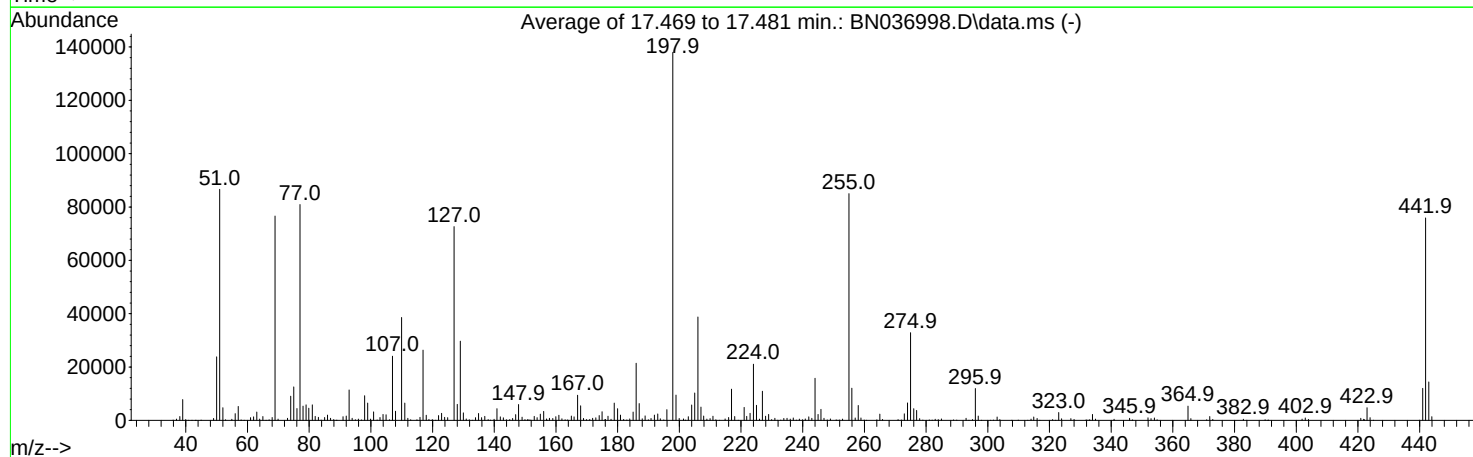
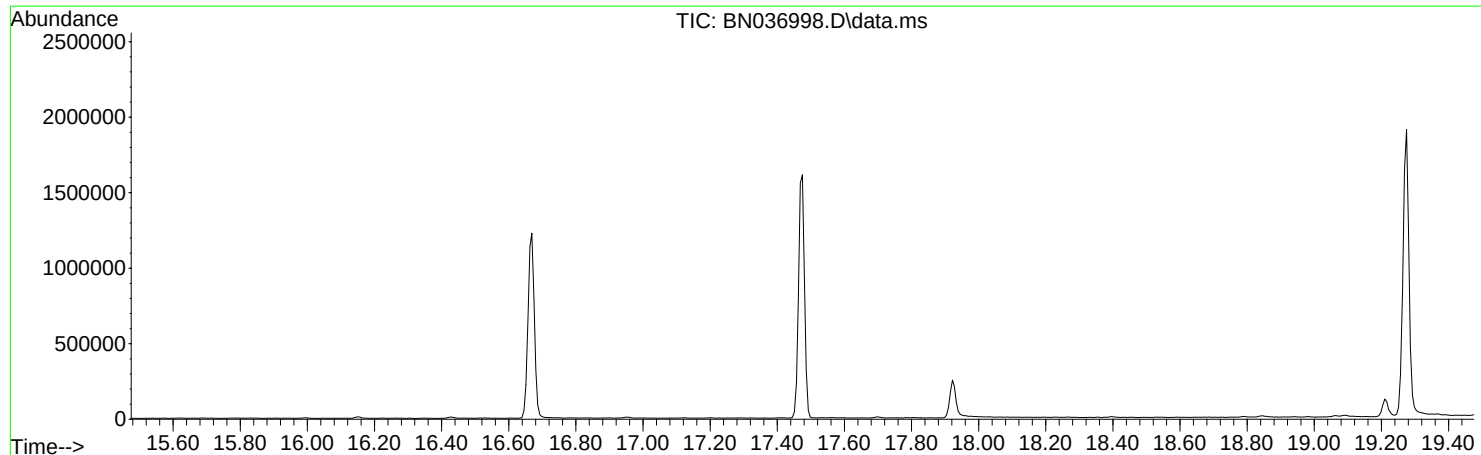
# QC SAMPLE DATA

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN051425\  
Data File : BN036998.D  
Acq On : 13 May 2025 17:02  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN051425.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
Last Update : Wed May 14 00:45:40 2025



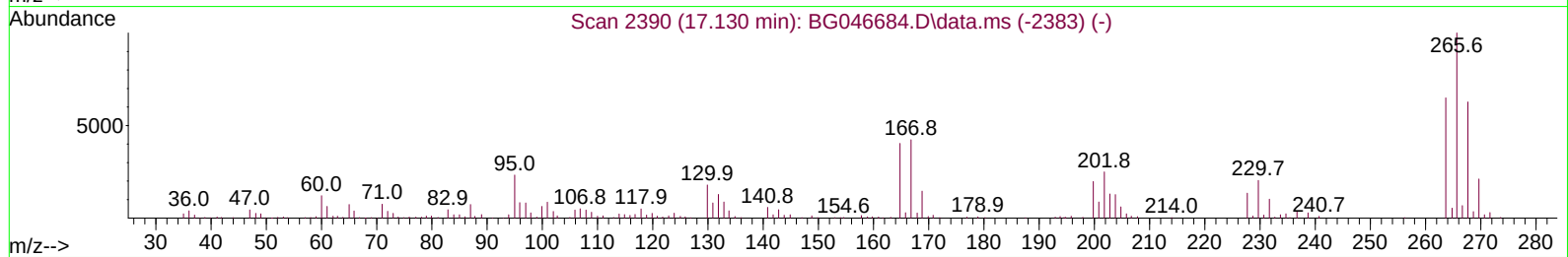
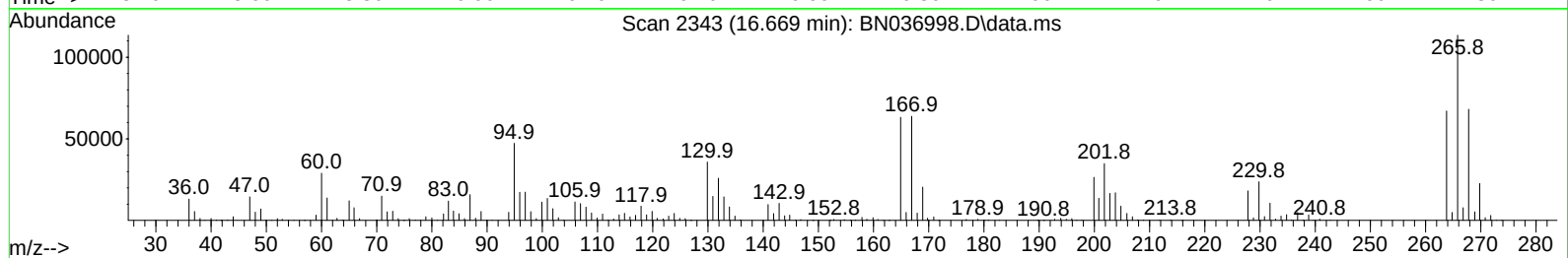
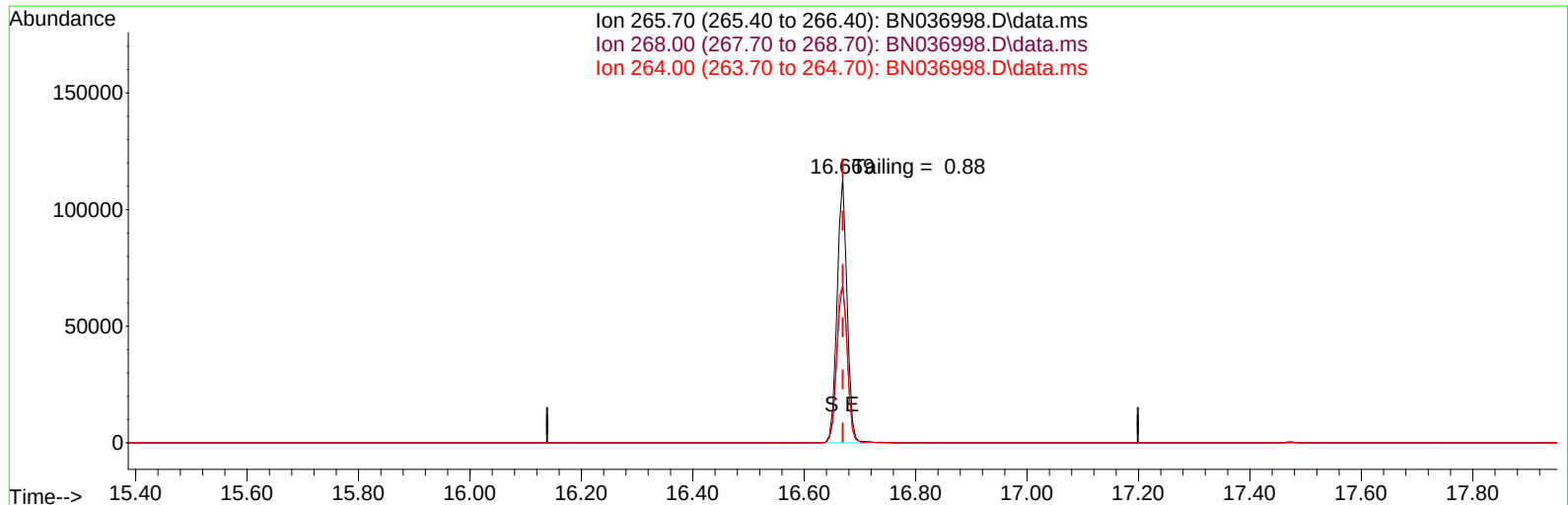
AutoFind: Scans 2479, 2480, 2481; Background Corrected with Scan 2472

| Target<br>Mass | Rel. to<br>Mass | Lower<br>Limit% | Upper<br>Limit% | Rel.<br>Abn% | Raw<br>Abn | Result<br>Pass/Fail |
|----------------|-----------------|-----------------|-----------------|--------------|------------|---------------------|
| 51             | 198             | 10              | 80              | 62.8         | 86619      | PASS                |
| 68             | 69              | 0.00            | 2               | 1.4          | 1066       | PASS                |
| 69             | 198             | 0.00            | 100             | 55.6         | 76627      | PASS                |
| 70             | 69              | 0.00            | 2               | 0.6          | 478        | PASS                |
| 127            | 198             | 10              | 80              | 52.7         | 72651      | PASS                |
| 197            | 198             | 0.00            | 2               | 0.0          | 0          | PASS                |
| 198            | 198             | 100             | 100             | 100.0        | 137931     | PASS                |
| 199            | 198             | 5               | 9               | 6.9          | 9502       | PASS                |
| 275            | 198             | 10              | 60              | 23.8         | 32893      | PASS                |
| 365            | 198             | 1               | 100             | 3.9          | 5315       | PASS                |
| 441            | 198             | 0.01            | 100             | 8.7          | 12010      | PASS                |
| 442            | 442             | 50              | 100             | 100.0        | 75872      | PASS                |
| 443            | 442             | 15              | 24              | 19.0         | 14396      | PASS                |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN051425\  
Data File : BN036998.D  
Acq On : 13 May 2025 17:02  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

Quant Time: May 14 01:22:24 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270E-Tune.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed May 14 01:22:17 2025  
Response via : Initial Calibration



TIC: BN036998.D\data.ms

**(70) Pentachlorophenol (C)**

16.669min ( 0.000) 18563.73 ng

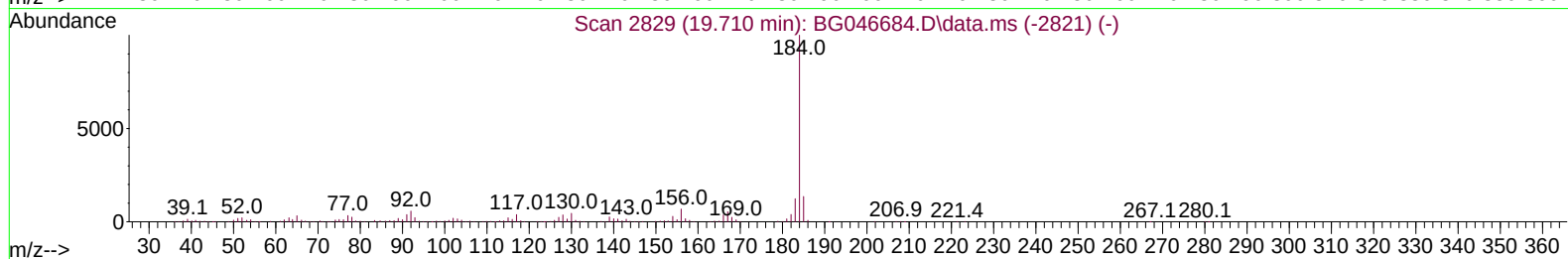
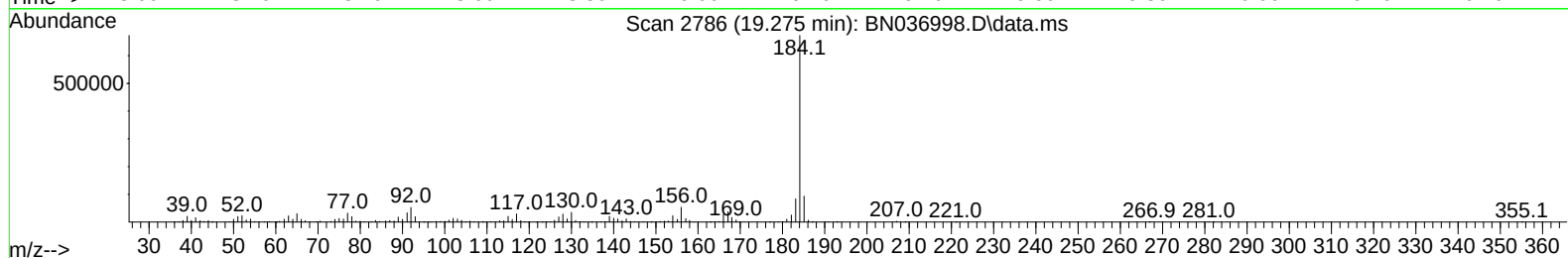
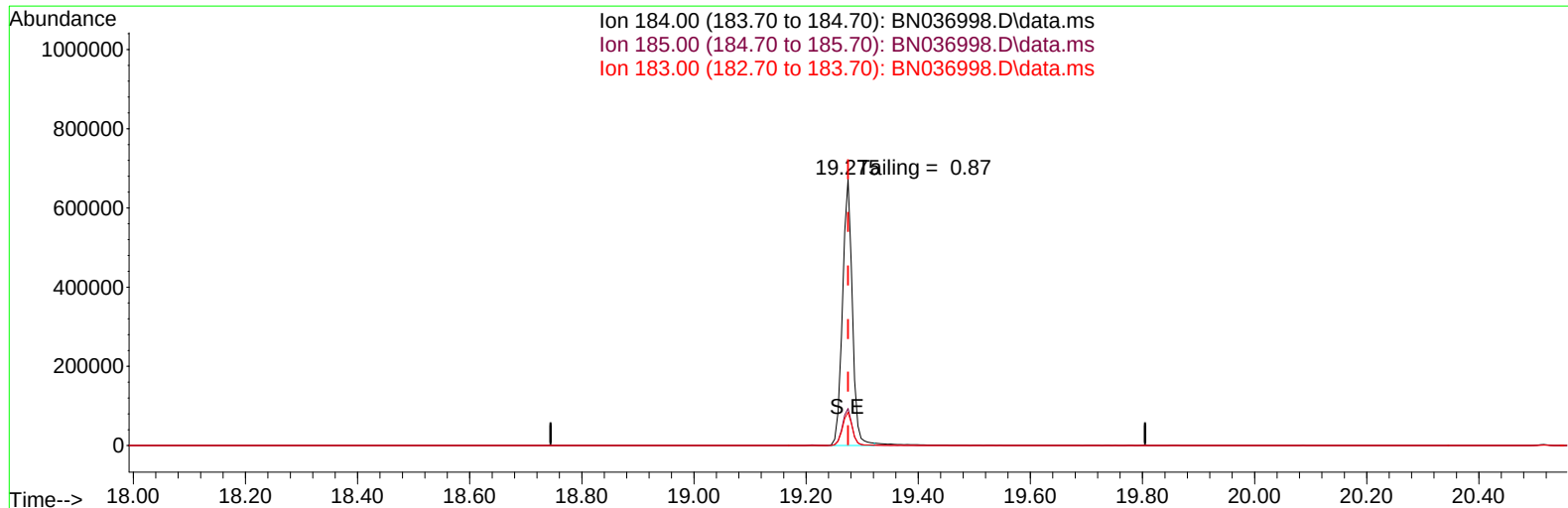
response 141750

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 265.70 | 100.00 | 100.00 |
| 268.00 | 62.20  | 60.06  |
| 264.00 | 61.60  | 59.13  |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN051425\  
Data File : BN036998.D  
Acq On : 13 May 2025 17:02  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

Quant Time: May 14 01:22:24 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270E-Tune.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed May 14 01:22:17 2025  
Response via : Initial Calibration



TIC: BN036998.D\data.ms

**(77) Benzidine**

19.275min ( 0.000) 0.00 ng

response 833154

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 184.00 | 100.00 | 100.00 |
| 185.00 | 15.50  | 13.89  |
| 183.00 | 13.20  | 12.48  |
| 0.00   | 0.00   | 0.00   |

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

DDT Breakdown

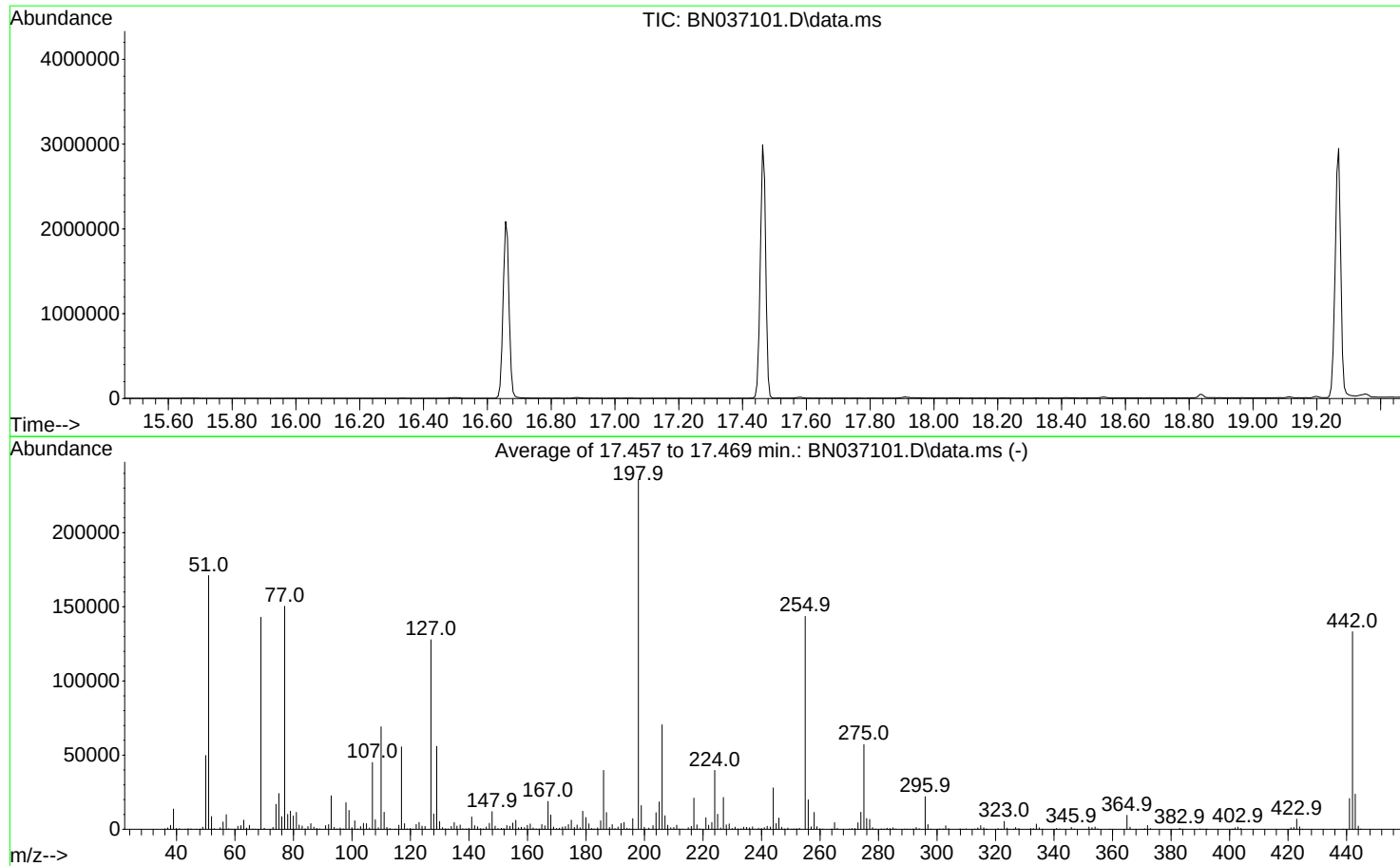
| Date          | Instrument Name  | DFTPP Data File    |
|---------------|------------------|--------------------|
| 5/14/2025     | BNA_N            | <u>BN036998.D</u>  |
|               |                  |                    |
|               |                  |                    |
| Compound Name | Response         | Retention Time     |
|               |                  |                    |
| DDT           | 424954           | 20.516             |
| DDD           | 27353            | 20.075             |
| DDE           | 333              | 19.563             |
|               |                  |                    |
|               |                  |                    |
| SUM(DDD+DDE)  | SUM(DDT+DDD+DDE) | % Breakdown Of DDT |
|               |                  |                    |
| 27686         | 452640           | 6.12               |
|               |                  |                    |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN052825\  
Data File : BN037101.D  
Acq On : 28 May 2025 10:02  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN051425.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
Last Update : Wed May 14 11:26:32 2025



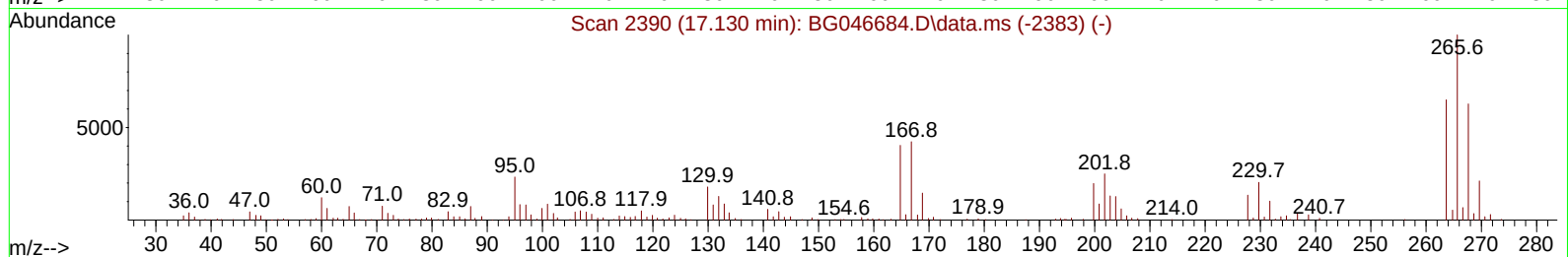
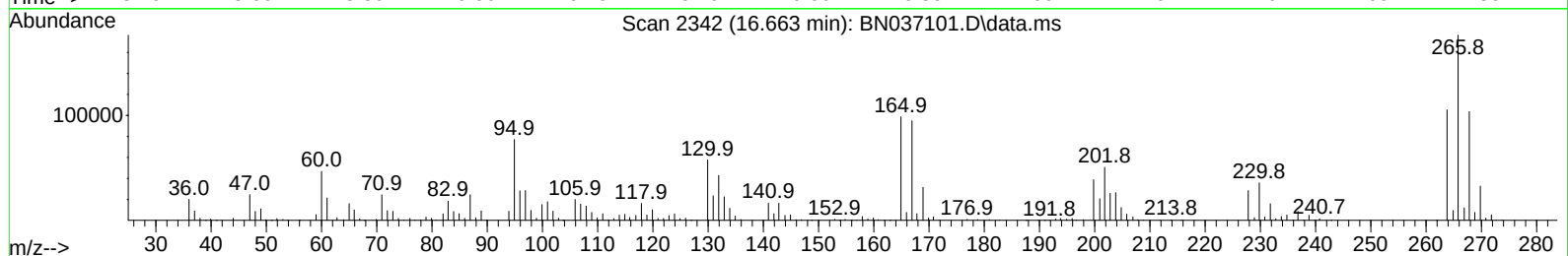
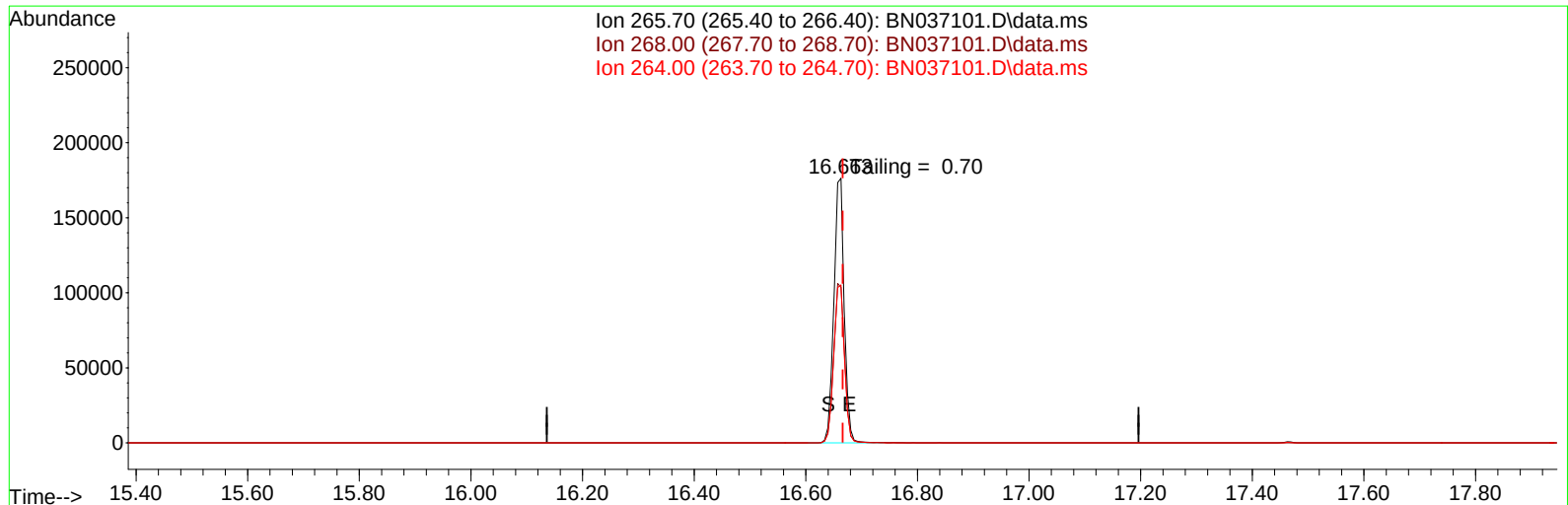
AutoFind: Scans 2477, 2478, 2479; Background Corrected with Scan 2470

| Target<br>Mass | Rel. to<br>Mass | Lower<br>Limit% | Upper<br>Limit% | Rel.<br>Abn% | Raw<br>Abn | Result<br>Pass/Fail |
|----------------|-----------------|-----------------|-----------------|--------------|------------|---------------------|
| 51             | 198             | 10              | 80              | 72.6         | 171072     | PASS                |
| 68             | 69              | 0.00            | 2               | 0.0          | 0          | PASS                |
| 69             | 198             | 0.00            | 100             | 60.6         | 142979     | PASS                |
| 70             | 69              | 0.00            | 2               | 0.5          | 764        | PASS                |
| 127            | 198             | 10              | 80              | 54.2         | 127763     | PASS                |
| 197            | 198             | 0.00            | 2               | 0.0          | 0          | PASS                |
| 198            | 198             | 100             | 100             | 100.0        | 235797     | PASS                |
| 199            | 198             | 5               | 9               | 6.8          | 16037      | PASS                |
| 275            | 198             | 10              | 60              | 24.2         | 57149      | PASS                |
| 365            | 198             | 1               | 100             | 4.0          | 9493       | PASS                |
| 441            | 198             | 0.01            | 100             | 8.8          | 20722      | PASS                |
| 442            | 442             | 50              | 100             | 100.0        | 133184     | PASS                |
| 443            | 442             | 15              | 24              | 17.8         | 23671      | PASS                |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN052825\  
Data File : BN037101.D  
Acq On : 28 May 2025 10:02  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

Quant Time: May 28 17:54:08 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270E-Tune.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue May 27 07:40:28 2025  
Response via : Initial Calibration



TIC: BN037101.D\data.ms

**(70) Pentachlorophenol (C)**

16.663min (-0.003) 16874.22 ng

response 227638

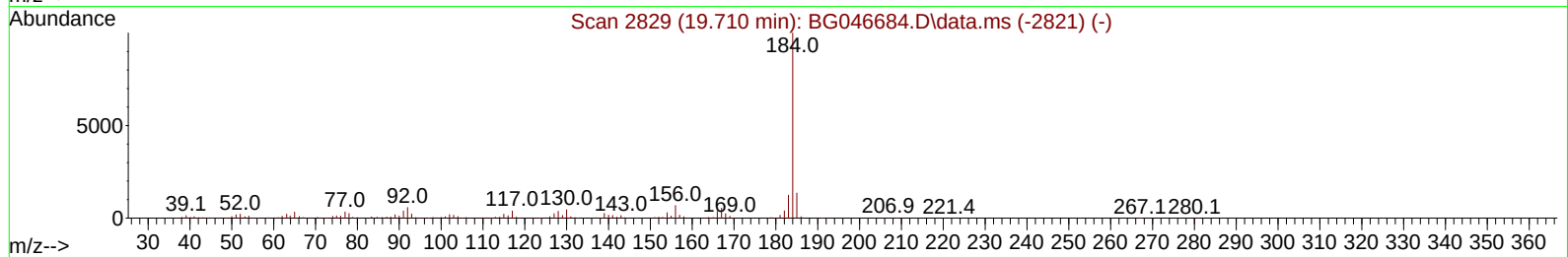
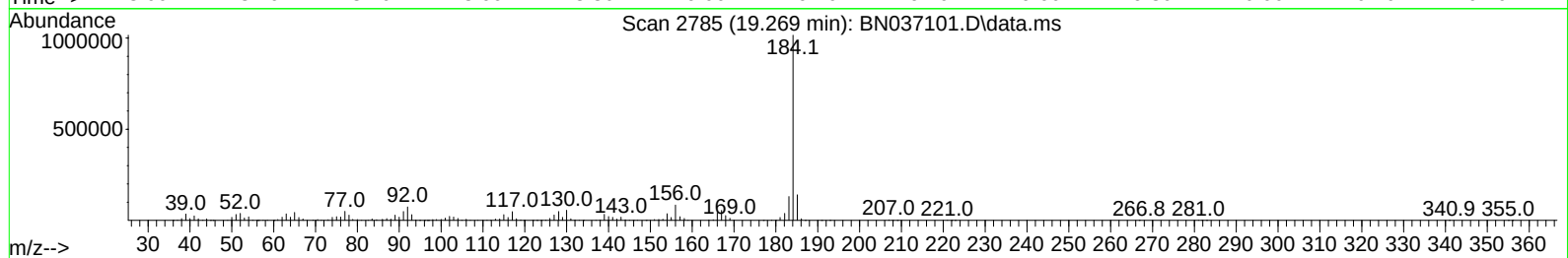
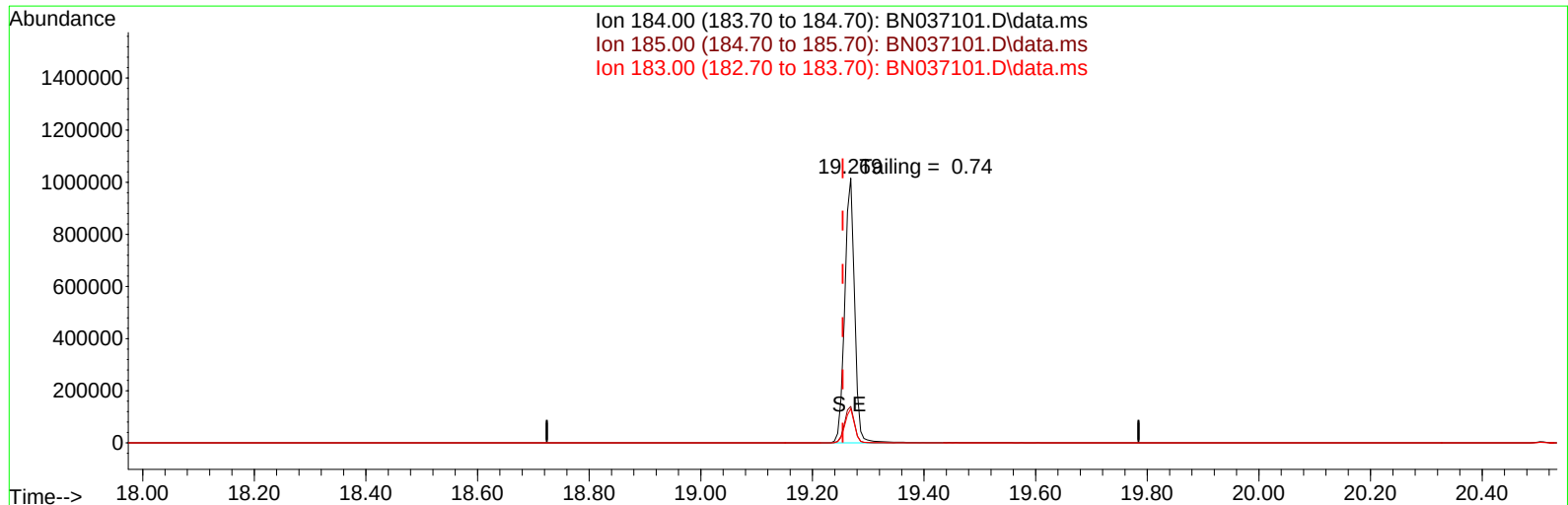
| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 265.70 | 100.00 | 100.00 |
| 268.00 | 62.20  | 58.72  |
| 264.00 | 61.60  | 59.71  |
| 0.00   | 0.00   | 0.00   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN052825\  
Data File : BN037101.D  
Acq On : 28 May 2025 10:02  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

Quant Time: May 28 17:54:08 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270E-Tune.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue May 27 07:40:28 2025  
Response via : Initial Calibration



TIC: BN037101.D\data.ms

**(77) Benzidine**

**19.269min (+ 0.015) 0.00 ng**

**response 1251934**

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 184.00 | 100.00 | 100.00 |
| 185.00 | 15.50  | 13.79  |
| 183.00 | 13.20  | 12.88  |
| 0.00   | 0.00   | 0.00   |

Instrument :  
 BNA\_N  
 ClientSampleId :  
 DFTPP

# DDT Breakdown

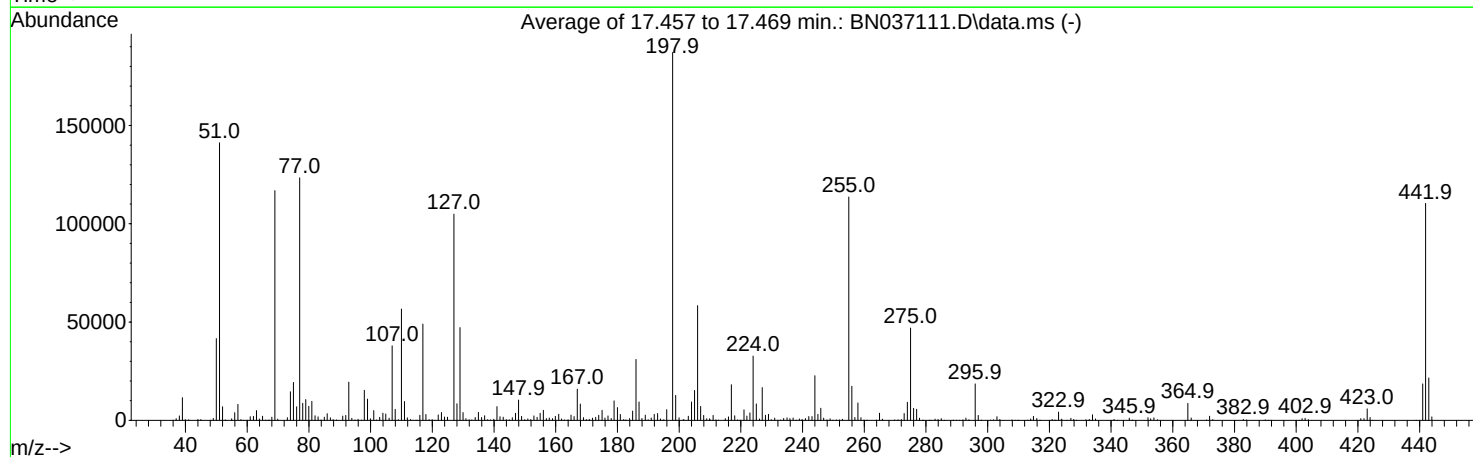
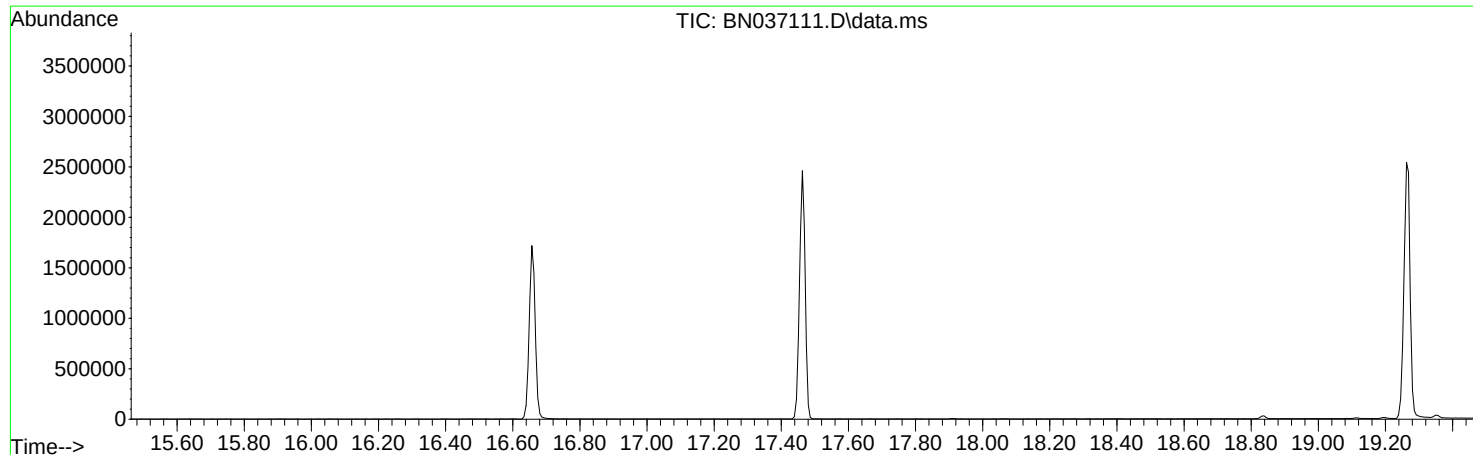
| Date          | Instrument Name  | DFTPP Data File    |
|---------------|------------------|--------------------|
| 5/28/2025     | BNA_N            | <u>BN037101.D</u>  |
|               |                  |                    |
|               |                  |                    |
| Compound Name | Response         | Retention Time     |
|               |                  |                    |
| DDT           | 714874           | 20.504             |
| DDD           | 13528            | 20.063             |
| DDE           | 625              | 19.551             |
|               |                  |                    |
|               |                  |                    |
| SUM(DDD+DDE)  | SUM(DDT+DDD+DDE) | % Breakdown Of DDT |
|               |                  |                    |
| 14153         | 729027           | 1.94               |
|               |                  |                    |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN052825\  
Data File : BN037111.D  
Acq On : 28 May 2025 16:31  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN051425.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
Last Update : Wed May 14 11:26:32 2025



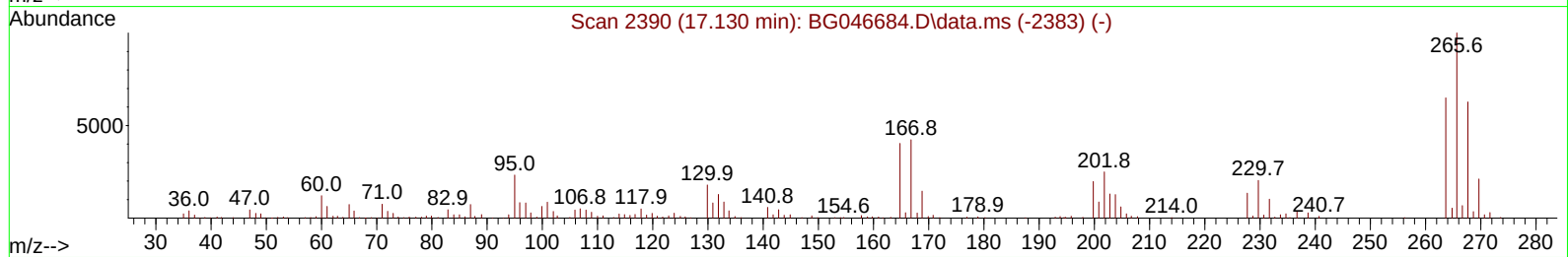
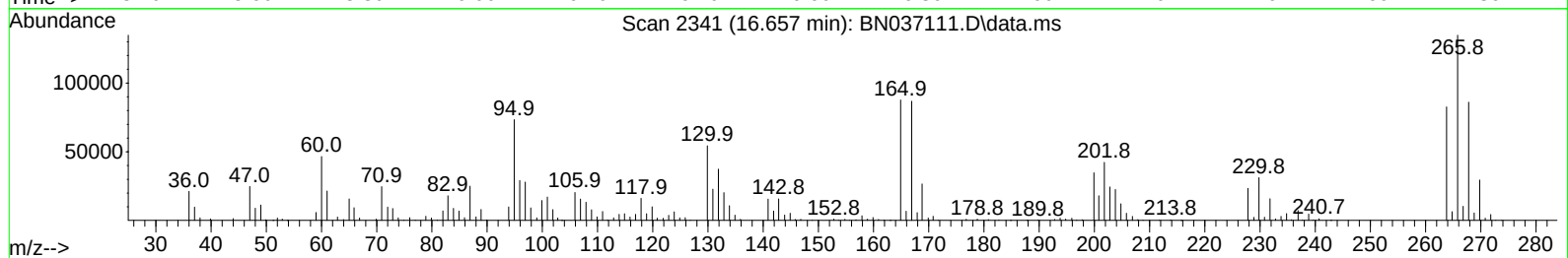
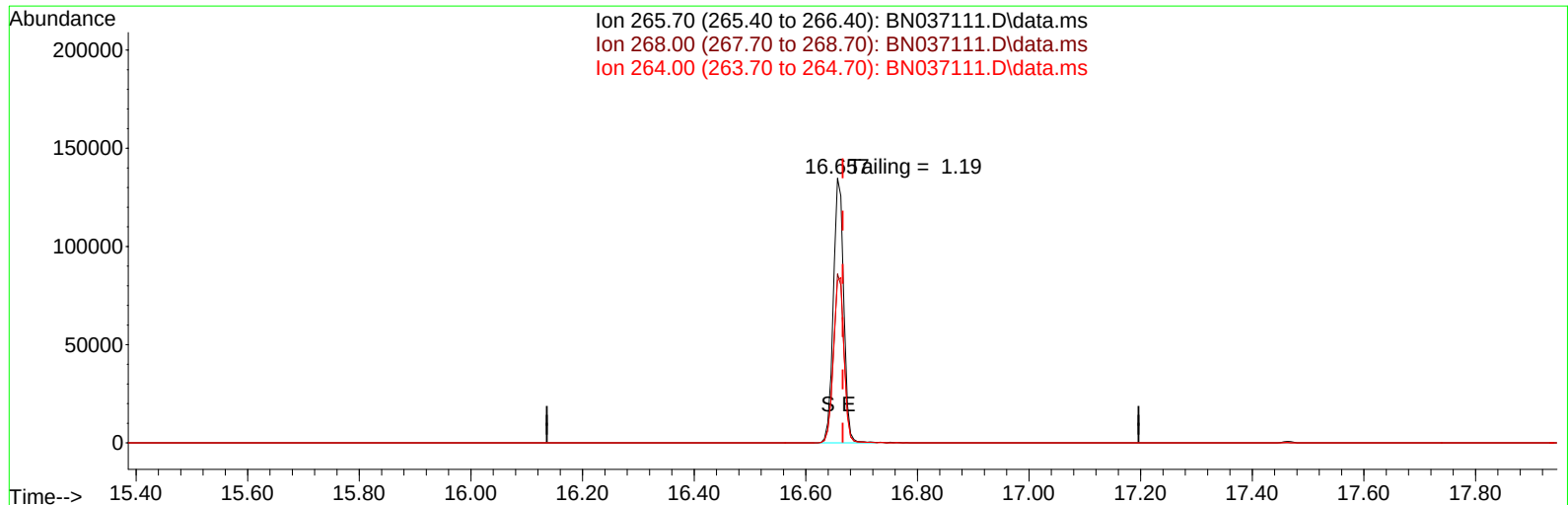
AutoFind: Scans 2477, 2478, 2479; Background Corrected with Scan 2470

| Target<br>Mass | Rel. to<br>Mass | Lower<br>Limit% | Upper<br>Limit% | Rel.<br>Abn% | Raw<br>Abn | Result<br>Pass/Fail |
|----------------|-----------------|-----------------|-----------------|--------------|------------|---------------------|
| 51             | 198             | 10              | 80              | 75.5         | 141235     | PASS                |
| 68             | 69              | 0.00            | 2               | 1.4          | 1593       | PASS                |
| 69             | 198             | 0.00            | 100             | 62.5         | 116904     | PASS                |
| 70             | 69              | 0.00            | 2               | 0.6          | 671        | PASS                |
| 127            | 198             | 10              | 80              | 56.1         | 104909     | PASS                |
| 197            | 198             | 0.00            | 2               | 0.0          | 0          | PASS                |
| 198            | 198             | 100             | 100             | 100.0        | 187115     | PASS                |
| 199            | 198             | 5               | 9               | 6.8          | 12715      | PASS                |
| 275            | 198             | 10              | 60              | 25.1         | 46952      | PASS                |
| 365            | 198             | 1               | 100             | 4.6          | 8660       | PASS                |
| 441            | 198             | 0.01            | 100             | 9.9          | 18566      | PASS                |
| 442            | 442             | 50              | 100             | 100.0        | 110333     | PASS                |
| 443            | 442             | 15              | 24              | 19.5         | 21552      | PASS                |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN052825\  
Data File : BN037111.D  
Acq On : 28 May 2025 16:31  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

Quant Time: May 28 17:56:34 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270E-Tune.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue May 27 07:40:28 2025  
Response via : Initial Calibration



TIC: BN037111.D\data.ms

**(70) Pentachlorophenol (C)**

16.657min (-0.009) 15873.72 ng

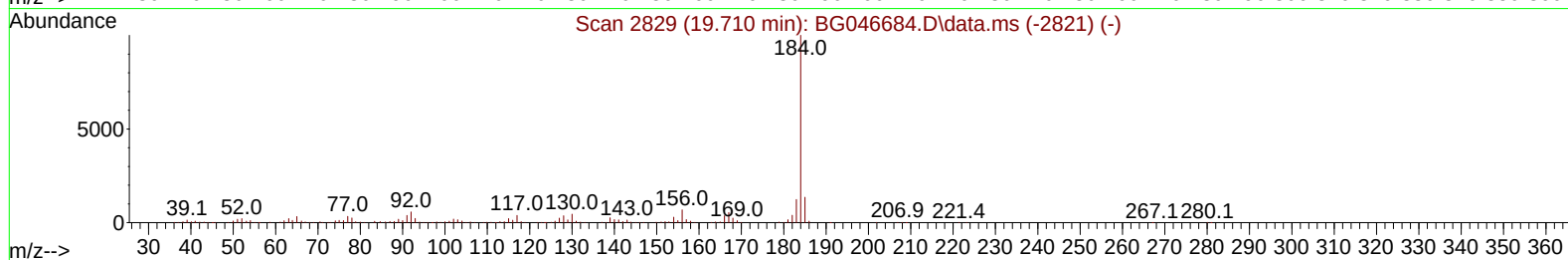
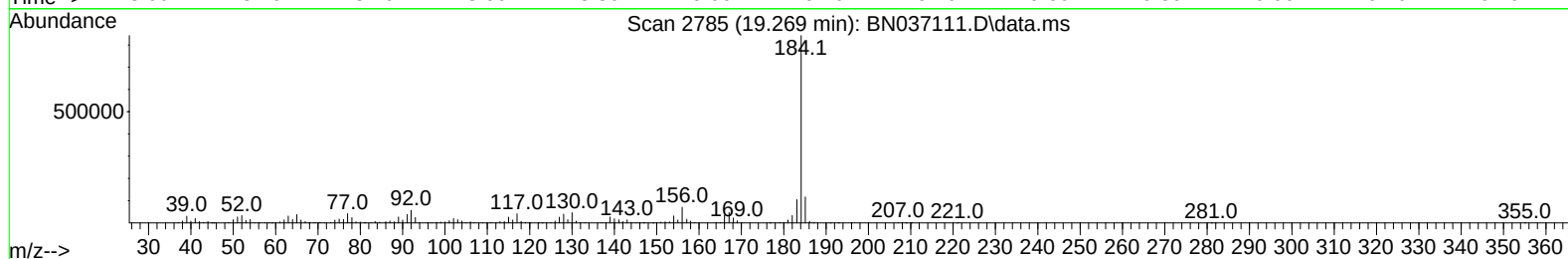
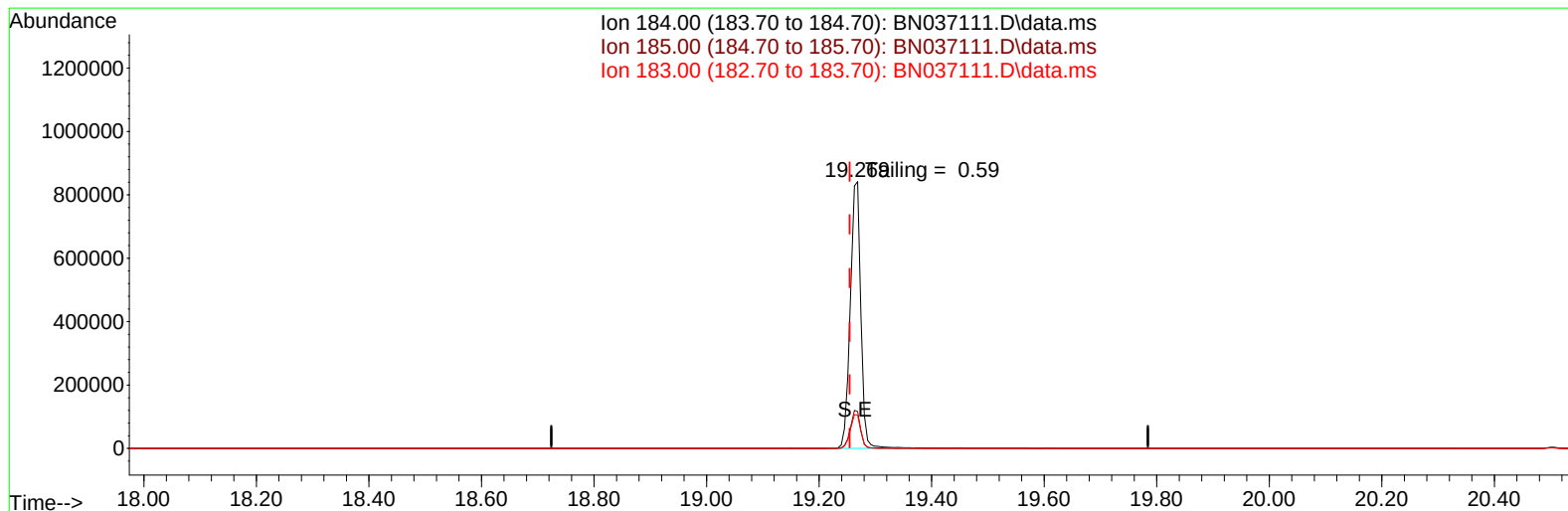
response 175025

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 265.70 | 100.00 | 100.00 |
| 268.00 | 62.20  | 63.84  |
| 264.00 | 61.60  | 61.31  |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN052825\  
Data File : BN037111.D  
Acq On : 28 May 2025 16:31  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

Quant Time: May 28 17:56:34 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270E-Tune.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue May 27 07:40:28 2025  
Response via : Initial Calibration



TIC: BN037111.D\data.ms

**(77) Benzidine**

19.269min (+ 0.014) 0.00 ng

response 1102765

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 184.00 | 100.00 | 100.00 |
| 185.00 | 15.50  | 13.87  |
| 183.00 | 13.20  | 12.47  |
| 0.00   | 0.00   | 0.00   |

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

DDT Breakdown

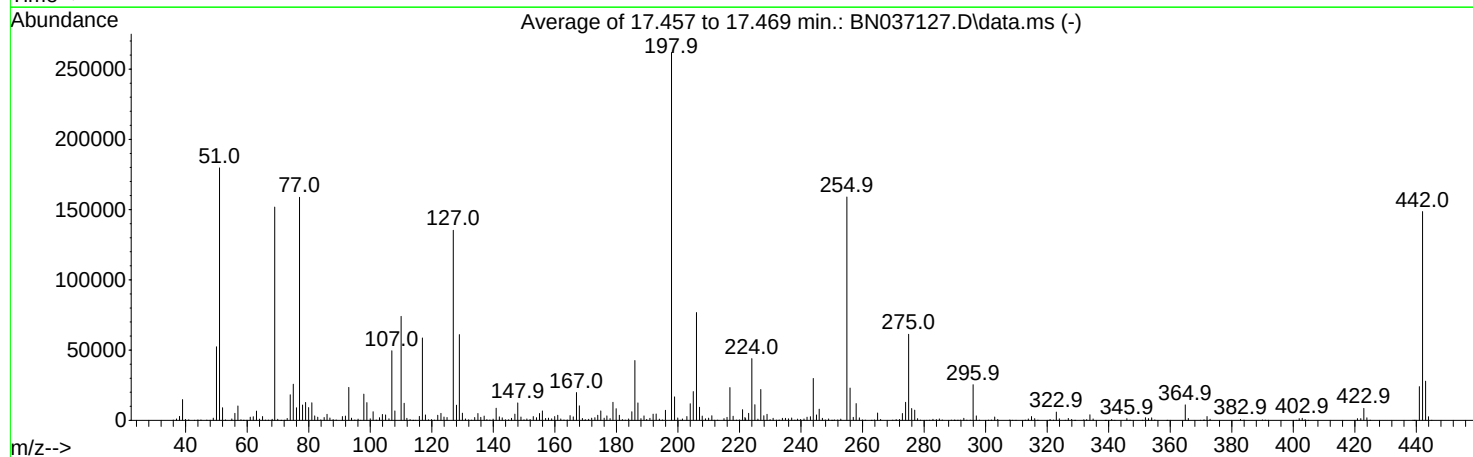
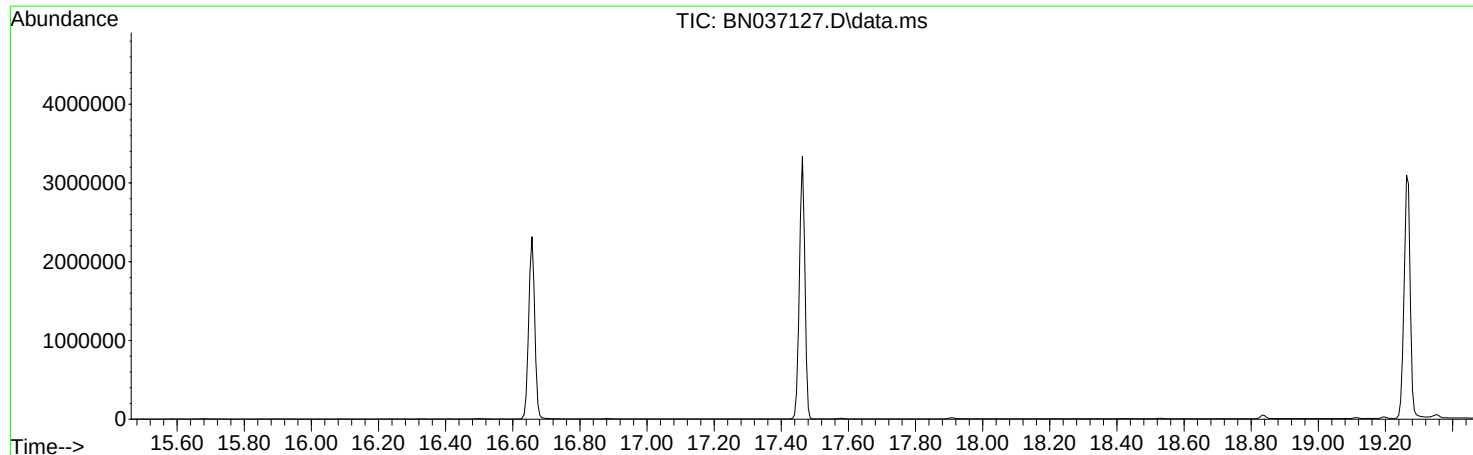
| Date          | Instrument Name  | DFTPP Data File    |
|---------------|------------------|--------------------|
| 5/28/2025     | BNA_N            | <u>BN037111.D</u>  |
|               |                  |                    |
|               |                  |                    |
| Compound Name | Response         | Retention Time     |
|               |                  |                    |
| DDT           | 606162           | 20.504             |
| DDD           | 10956            | 20.063             |
| DDE           | 462              | 19.557             |
|               |                  |                    |
|               |                  |                    |
| SUM(DDD+DDE)  | SUM(DDT+DDD+DDE) | % Breakdown Of DDT |
|               |                  |                    |
| 11418         | 617580           | 1.85               |
|               |                  |                    |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN052925\  
Data File : BN037127.D  
Acq On : 29 May 2025 09:28  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN051425.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
Last Update : Wed May 14 11:26:32 2025



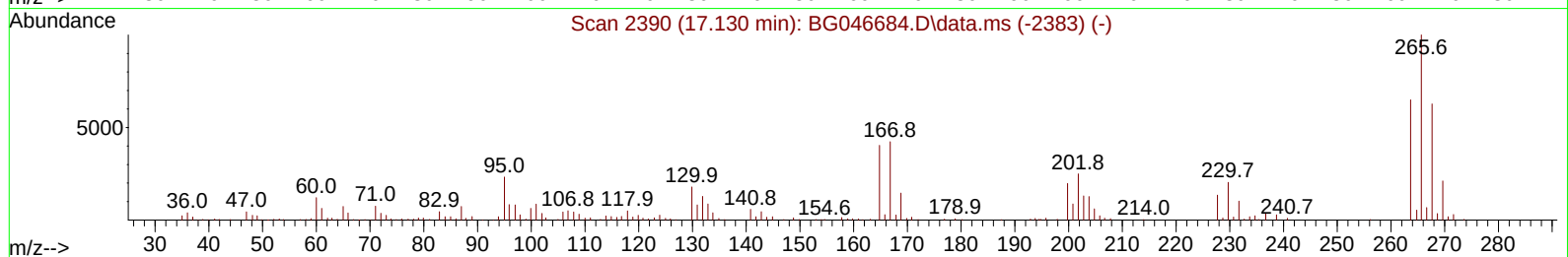
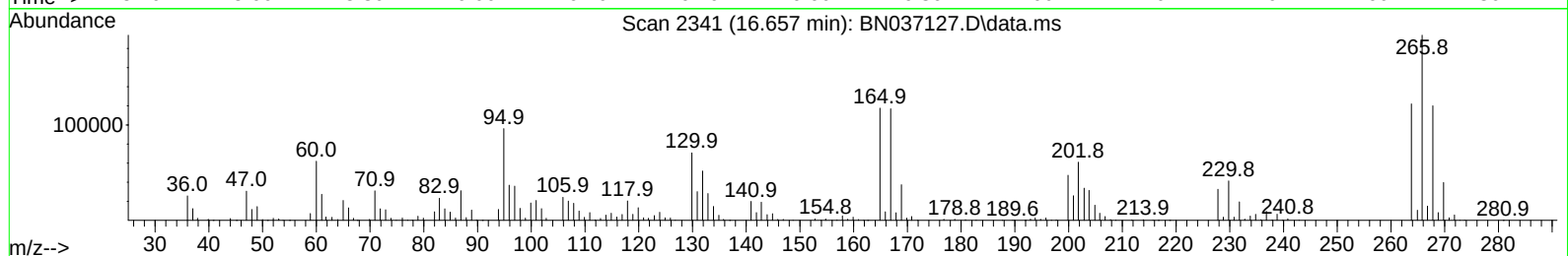
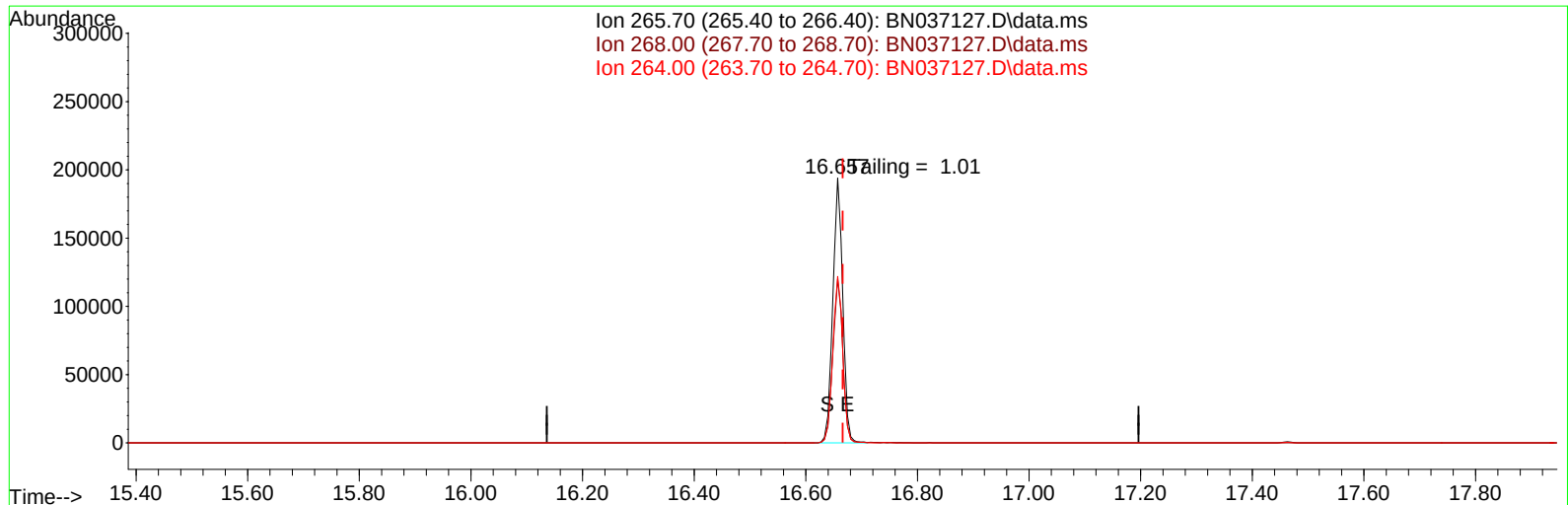
AutoFind: Scans 2477, 2478, 2479; Background Corrected with Scan 2470

| Target<br>Mass | Rel. to<br>Mass | Lower<br>Limit% | Upper<br>Limit% | Rel.<br>Abn% | Raw<br>Abn | Result<br>Pass/Fail |
|----------------|-----------------|-----------------|-----------------|--------------|------------|---------------------|
| 51             | 198             | 10              | 80              | 68.7         | 179763     | PASS                |
| 68             | 69              | 0.00            | 2               | 0.5          | 810        | PASS                |
| 69             | 198             | 0.00            | 100             | 58.0         | 151837     | PASS                |
| 70             | 69              | 0.00            | 2               | 0.5          | 774        | PASS                |
| 127            | 198             | 10              | 80              | 51.7         | 135352     | PASS                |
| 197            | 198             | 0.00            | 2               | 0.0          | 0          | PASS                |
| 198            | 198             | 100             | 100             | 100.0        | 261824     | PASS                |
| 199            | 198             | 5               | 9               | 6.4          | 16719      | PASS                |
| 275            | 198             | 10              | 60              | 23.4         | 61272      | PASS                |
| 365            | 198             | 1               | 100             | 4.2          | 11025      | PASS                |
| 441            | 198             | 0.01            | 100             | 9.2          | 23996      | PASS                |
| 442            | 442             | 50              | 100             | 100.0        | 148611     | PASS                |
| 443            | 442             | 15              | 24              | 18.8         | 27931      | PASS                |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN052925\  
Data File : BN037127.D  
Acq On : 29 May 2025 09:28  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

Quant Time: May 29 16:10:02 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270E-Tune.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue May 27 07:40:28 2025  
Response via : Initial Calibration



TIC: BN037127.D\data.ms

**(70) Pentachlorophenol (C)**

16.657min (-0.009) 17413.96 ng

response 239839

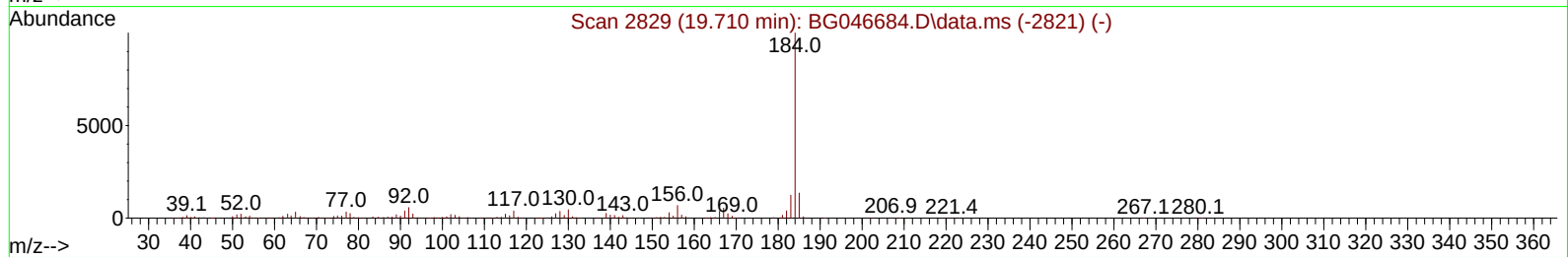
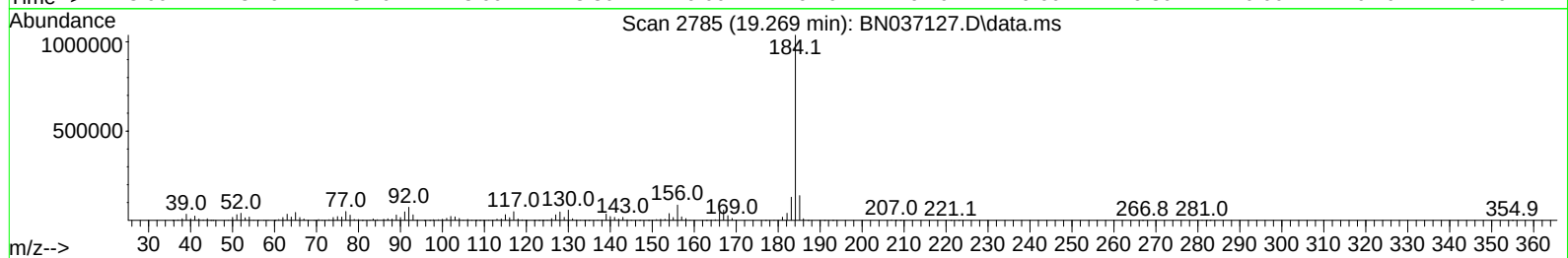
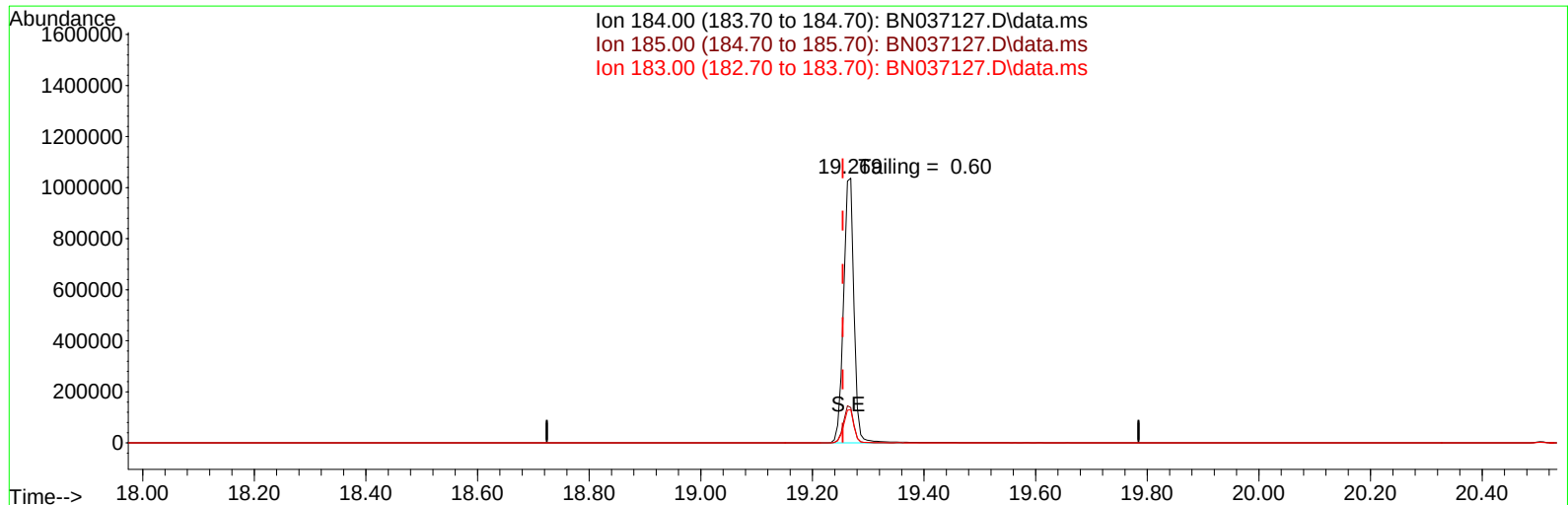
| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 265.70 | 100.00 | 100.00 |
| 268.00 | 62.20  | 61.88  |
| 264.00 | 61.60  | 62.90  |
| 0.00   | 0.00   | 0.00   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN052925\  
Data File : BN037127.D  
Acq On : 29 May 2025 09:28  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

Quant Time: May 29 16:10:02 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270E-Tune.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue May 27 07:40:28 2025  
Response via : Initial Calibration



TIC: BN037127.D\data.ms

**(77) Benzidine**

19.269min (+ 0.015) 0.00 ng m

response 1341629

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 184.00 | 100.00 | 100.00 |
| 185.00 | 15.50  | 13.40  |
| 183.00 | 13.20  | 12.52  |
| 0.00   | 0.00   | 0.00   |

**Instrument :**

BNA\_N

**ClientSampleId :**

DFTPP

**DDT Breakdown**

| Date          | Instrument Name  | DFTPP Data File    |
|---------------|------------------|--------------------|
| 5/29/2025     | BNA_N            | <u>BN037127.D</u>  |
|               |                  |                    |
|               |                  |                    |
| Compound Name | Response         | Retention Time     |
|               |                  |                    |
| DDT           | 789740           | 20.504             |
| DDD           | 15689            | 20.063             |
| DDE           | 611              | 19.557             |
|               |                  |                    |
|               |                  |                    |
| SUM(DDD+DDE)  | SUM(DDT+DDD+DDE) | % Breakdown Of DDT |
|               |                  |                    |
| 16300         | 806040           | 2.02               |
|               |                  |                    |

## Report of Analysis

|                    |                               |                 |                |
|--------------------|-------------------------------|-----------------|----------------|
| Client:            | Tetra Tech NUS, Inc.          | Date Collected: |                |
| Project:           | NWIRP Bethpage 112G08005-WE13 | Date Received:  |                |
| Client Sample ID:  | PB168155BL                    | SDG No.:        | Q2118          |
| Lab Sample ID:     | PB168155BL                    | 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 |
| BN037103.D        | 1         | 05/23/25 11:50 | 05/28/25 11:17 | PB168155      |

| 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        | 0.32  |           | 30 - 150 |      | 80%        | SPK: 0.4 |
| 4165-60-0                 | Nitrobenzene-d5         | 0.32  |           | 55 - 111 |      | 80%        | SPK: 0.4 |
| 321-60-8                  | 2-Fluorobiphenyl        | 0.35  |           | 53 - 106 |      | 86%        | SPK: 0.4 |
| 1718-51-0                 | Terphenyl-d14           | 0.44  |           | 58 - 132 |      | 109%       | SPK: 0.4 |
| <b>INTERNAL STANDARDS</b> |                         |       |           |          |      |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4  | 2460  | 7.611     |          |      |            |          |
| 1146-65-2                 | Naphthalene-d8          | 5990  | 10.394    |          |      |            |          |
| 15067-26-2                | Acenaphthene-d10        | 3070  | 14.256    |          |      |            |          |
| 1517-22-2                 | Phenanthrene-d10        | 5490  | 17.009    |          |      |            |          |
| 1719-03-5                 | Chrysene-d12            | 3550  | 21.206    |          |      |            |          |
| 1520-96-3                 | Perylene-d12            | 3270  | 23.404    |          |      |            |          |

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\BN052825\  
Data File : BN037103.D  
Acq On : 28 May 2025 11:17  
Operator : RC/JU  
Sample : PB168155BL  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
PB168155BL

Quant Time: May 28 15:34:16 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN051425.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed May 14 11:26:32 2025  
Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards          |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.611  | 152  | 2460     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8           | 10.394 | 136  | 5989     | 0.400 | ng    | -0.01    |
| 13) Acenaphthene-d10        | 14.256 | 164  | 3067     | 0.400 | ng    | -0.01    |
| 19) Phenanthrene-d10        | 17.009 | 188  | 5493     | 0.400 | ng    | # 0.00   |
| 29) Chrysene-d12            | 21.206 | 240  | 3554     | 0.400 | ng    | # 0.00   |
| 35) Perylene-d12            | 23.404 | 264  | 3269     | 0.400 | ng    | -0.01    |
| System Monitoring Compounds |        |      |          |       |       |          |
| 4) 2-Fluorophenol           | 5.206  | 112  | 2158     | 0.335 | ng    | 0.00     |
| 5) Phenol-d6                | 6.788  | 99   | 2477     | 0.307 | ng    | 0.00     |
| 8) Nitrobenzene-d5          | 8.760  | 82   | 2088     | 0.320 | ng    | -0.01    |
| 11) 2-Methylnaphthalene-d10 | 11.991 | 152  | 2793     | 0.331 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol    | 15.767 | 330  | 192      | 0.143 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl        | 12.883 | 172  | 4846     | 0.345 | ng    | 0.00     |
| 27) Fluoranthene-d10        | 19.040 | 212  | 4835     | 0.321 | ng    | 0.00     |
| 31) Terphenyl-d14           | 19.649 | 244  | 3333     | 0.438 | ng    | 0.00     |

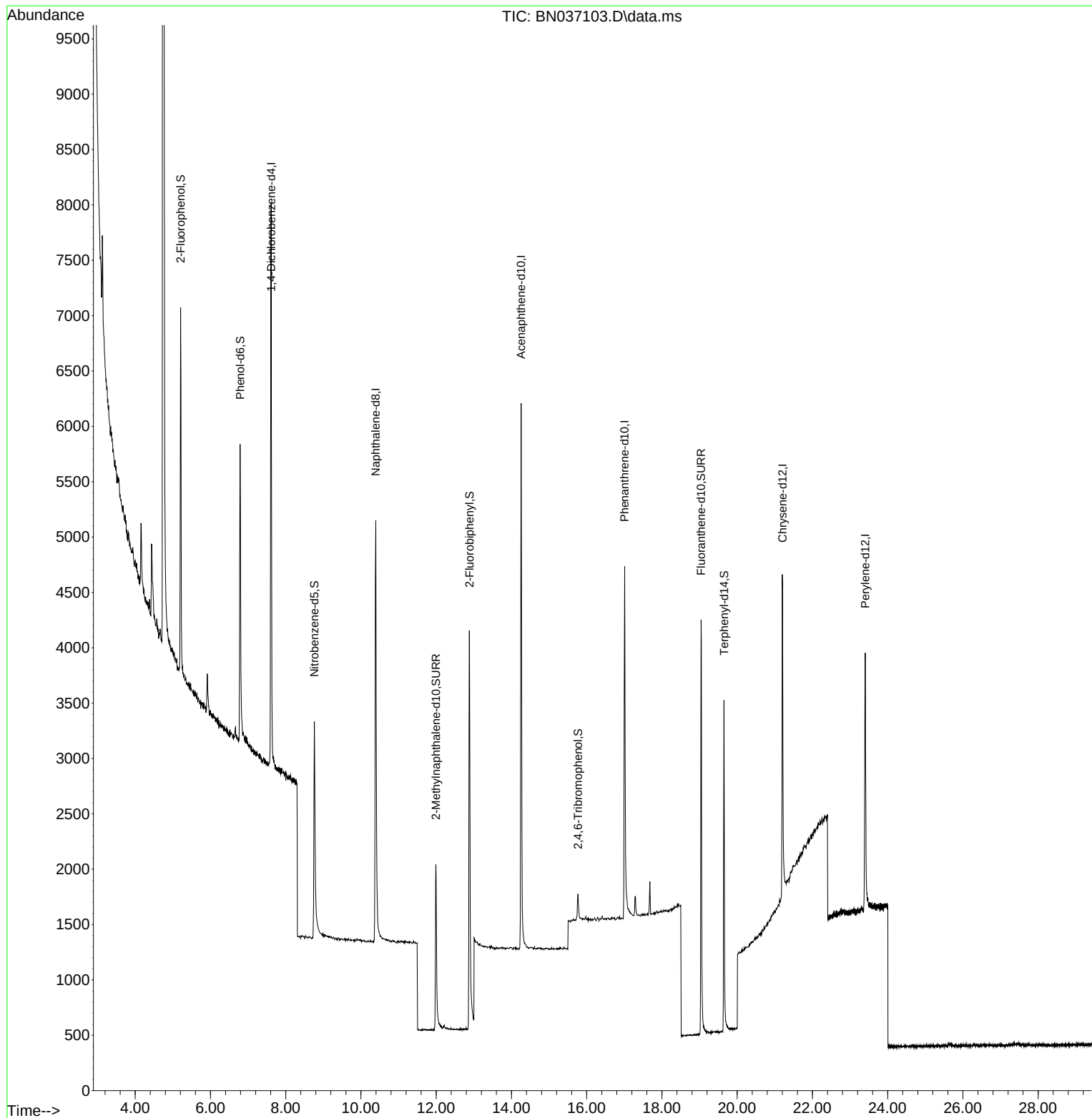
Target Compounds Qvalue

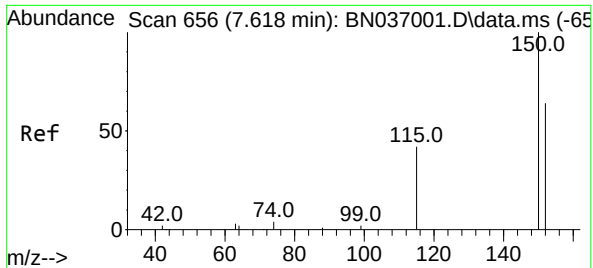
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN052825\  
Data File : BN037103.D  
Acq On : 28 May 2025 11:17  
Operator : RC/JU  
Sample : PB168155BL  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
PB168155BL

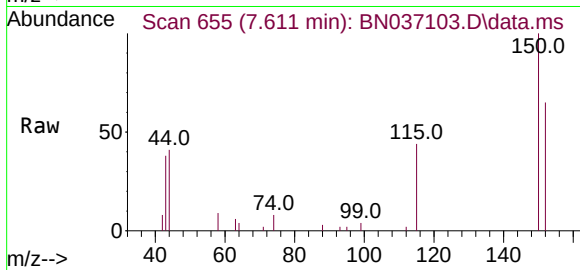
Quant Time: May 28 15:34:16 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN051425.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed May 14 11:26:32 2025  
Response via : Initial Calibration



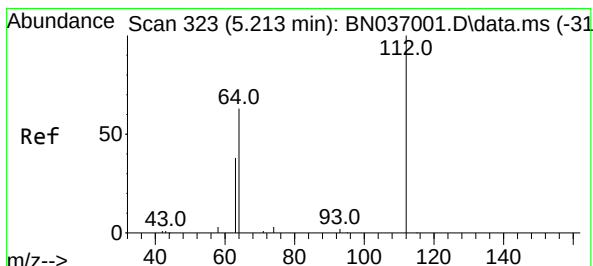
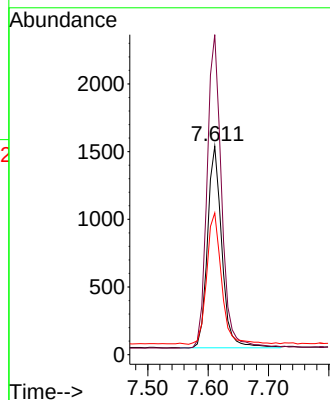
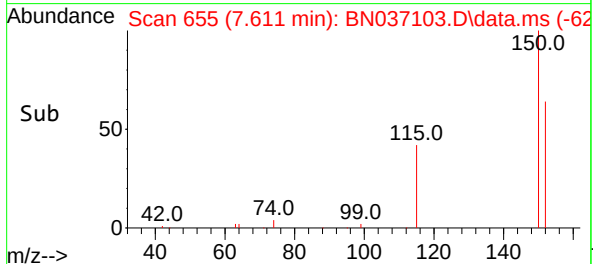


#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.611 min Scan# 61  
Delta R.T. -0.007 min  
Lab File: BN037103.D  
Acq: 28 May 2025 11:17

Instrument :  
BNA\_N  
ClientSampleId :  
PB168155BL

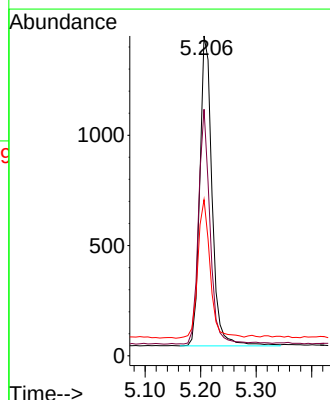
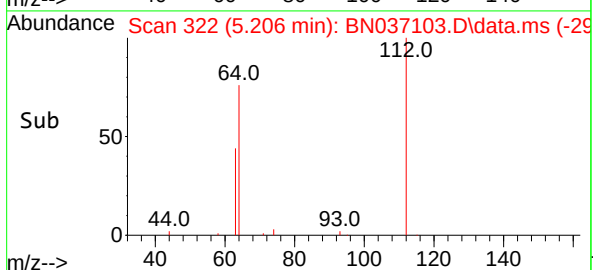
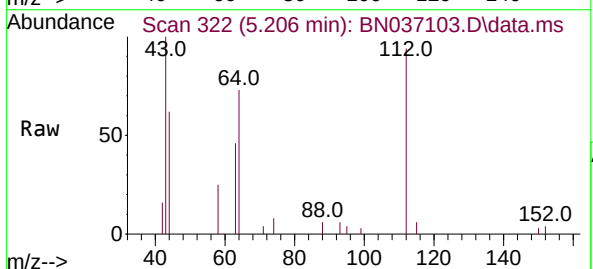


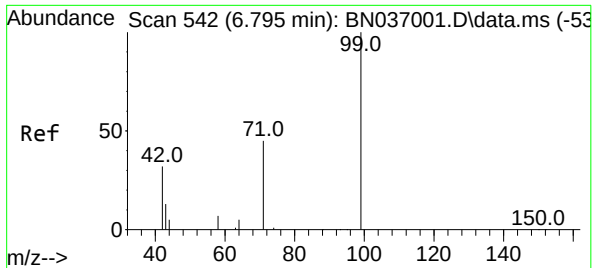
Tgt Ion:152 Resp: 2460  
Ion Ratio Lower Upper  
152 100  
150 153.5 123.9 185.9  
115 68.0 55.8 83.8



#4  
2-Fluorophenol  
Concen: 0.335 ng  
RT: 5.206 min Scan# 322  
Delta R.T. -0.007 min  
Lab File: BN037103.D  
Acq: 28 May 2025 11:17

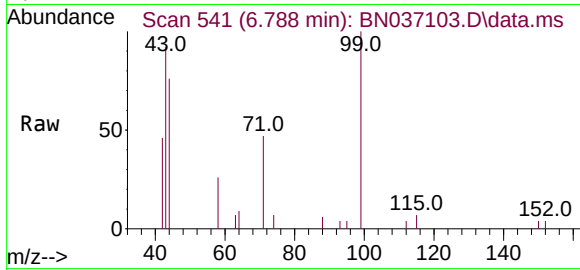
Tgt Ion:112 Resp: 2158  
Ion Ratio Lower Upper  
112 100  
64 70.7 55.7 83.5  
63 45.0 34.6 51.8



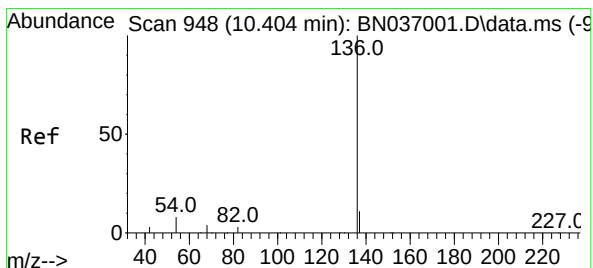
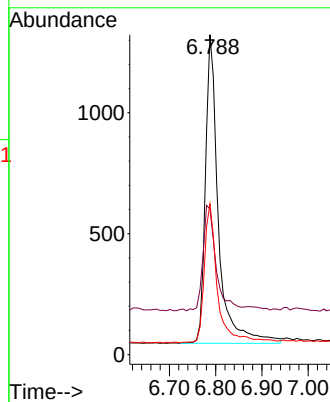
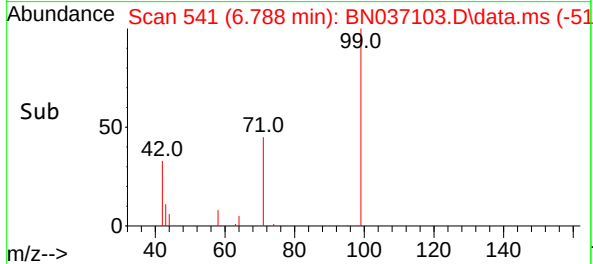


#5  
Phenol-d6  
Concen: 0.307 ng  
RT: 6.788 min Scan# 541  
Delta R.T. -0.007 min  
Lab File: BN037103.D  
Acq: 28 May 2025 11:17

Instrument :  
BNA\_N  
ClientSampleId :  
PB168155BL

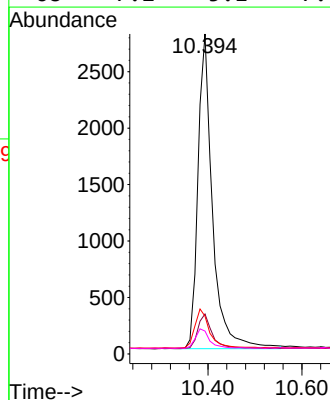
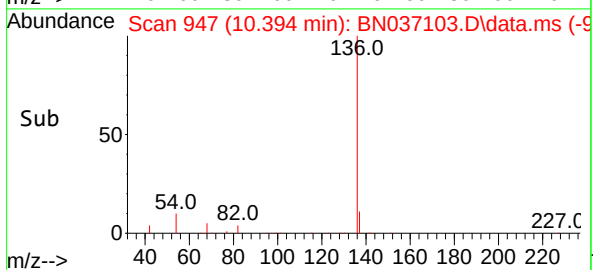
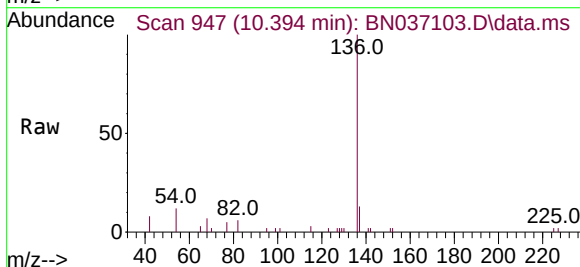


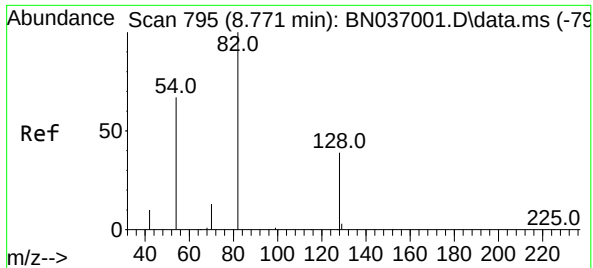
Tgt Ion: 99 Resp: 2477  
Ion Ratio Lower Upper  
99 100  
42 34.5 29.3 43.9  
71 45.8 35.7 53.5



#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.394 min Scan# 947  
Delta R.T. -0.011 min  
Lab File: BN037103.D  
Acq: 28 May 2025 11:17

Tgt Ion: 136 Resp: 5989  
Ion Ratio Lower Upper  
136 100  
137 12.5 10.4 15.6  
54 11.8 8.5 12.7  
68 7.2 5.1 7.7

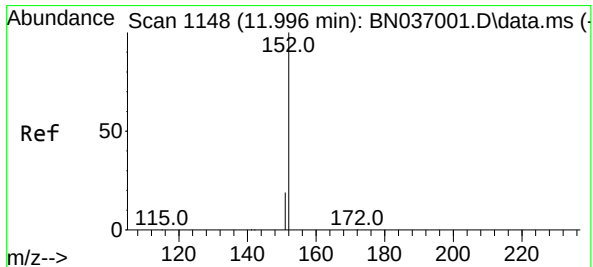
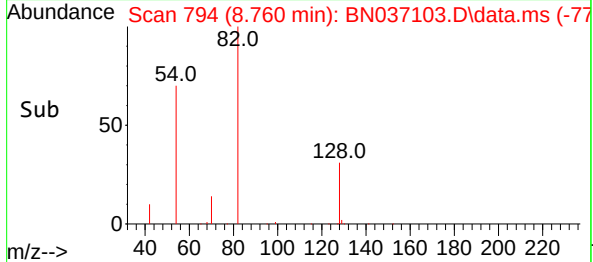
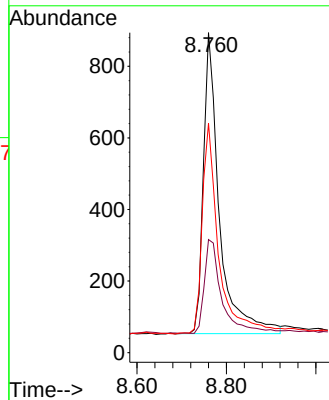
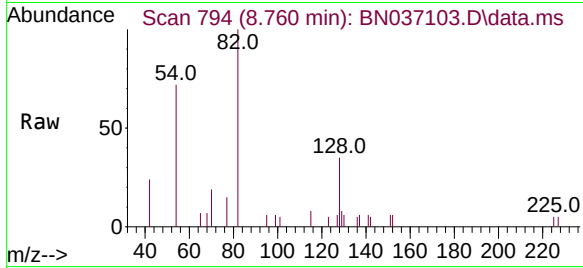




#8  
Nitrobenzene-d5  
Concen: 0.320 ng  
RT: 8.760 min Scan# 794  
Delta R.T. -0.011 min  
Lab File: BN037103.D  
Acq: 28 May 2025 11:17

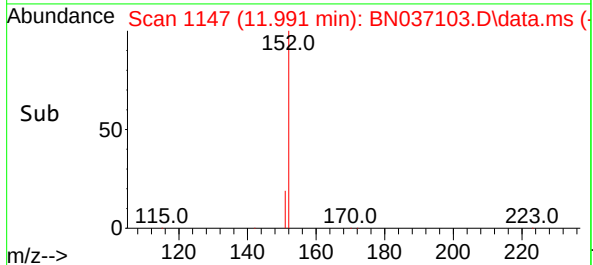
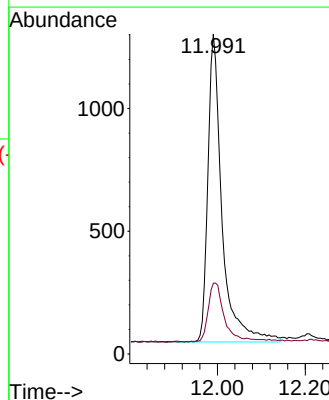
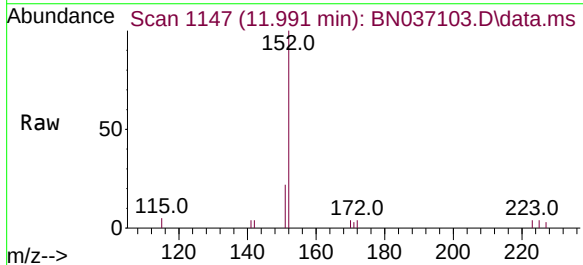
Instrument :  
BNA\_N  
ClientSampleId :  
PB168155BL

Tgt Ion: 82 Resp: 2088  
Ion Ratio Lower Upper  
82 100  
128 35.3 34.0 51.0  
54 71.7 55.0 82.4

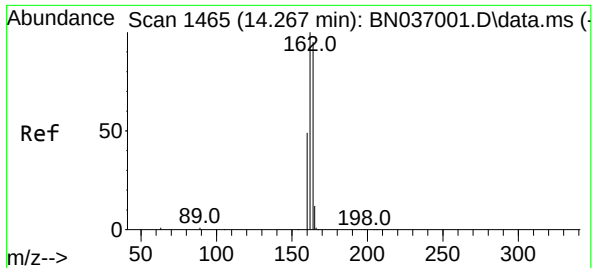


#11  
2-Methylnaphthalene-d10  
Concen: 0.331 ng  
RT: 11.991 min Scan# 1147  
Delta R.T. -0.005 min  
Lab File: BN037103.D  
Acq: 28 May 2025 11:17

Tgt Ion: 152 Resp: 2793  
Ion Ratio Lower Upper  
152 100  
151 21.1 17.5 26.3



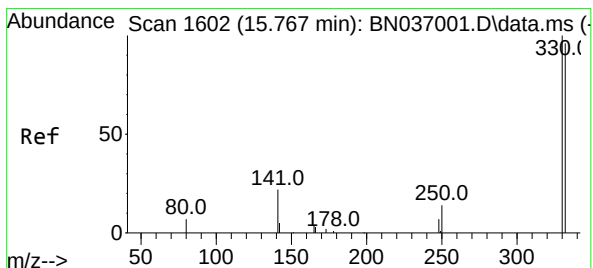
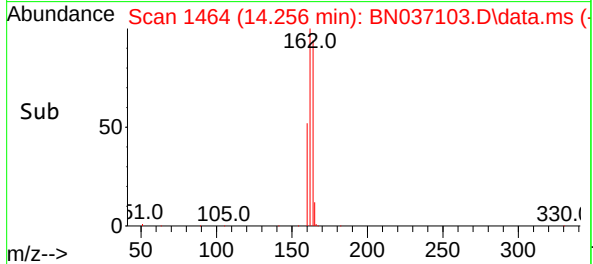
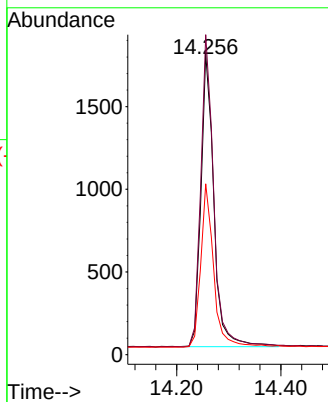
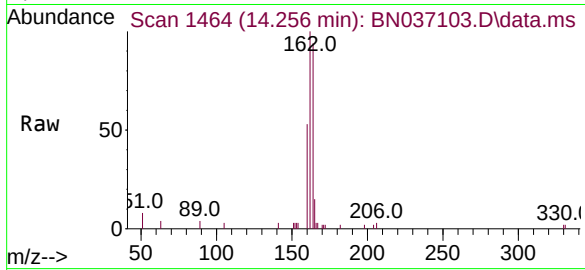




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.256 min Scan# 1464  
Delta R.T. -0.011 min  
Lab File: BN037103.D  
Acq: 28 May 2025 11:17

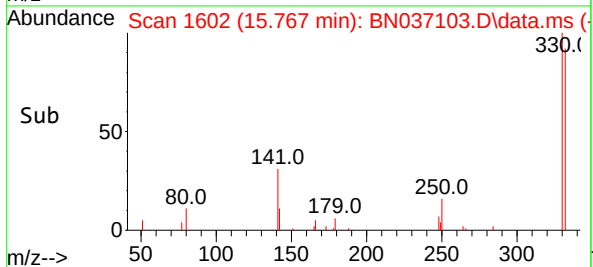
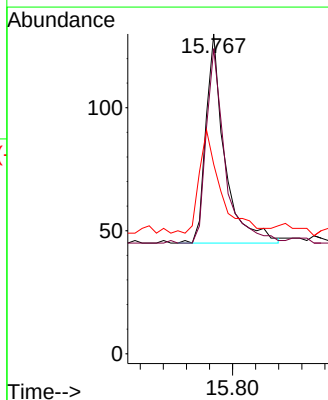
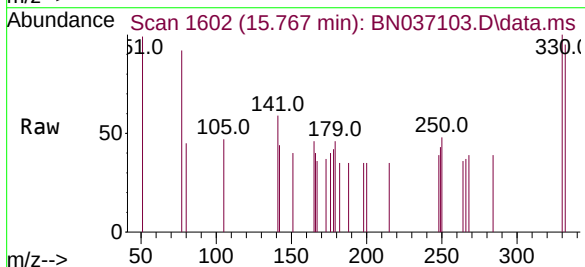
Instrument :  
BNA\_N  
ClientSampleId :  
PB168155BL

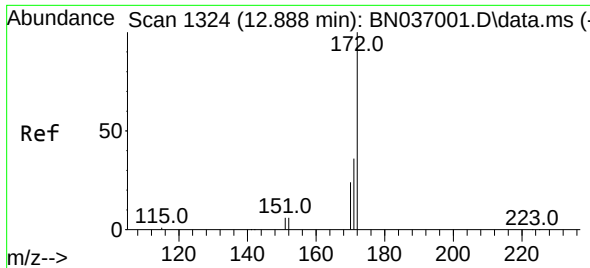
Tgt Ion:164 Resp: 3067  
Ion Ratio Lower Upper  
164 100  
162 106.4 84.2 126.4  
160 56.8 42.6 63.8



#14  
2,4,6-Tribromophenol  
Concen: 0.143 ng  
RT: 15.767 min Scan# 1602  
Delta R.T. 0.000 min  
Lab File: BN037103.D  
Acq: 28 May 2025 11:17

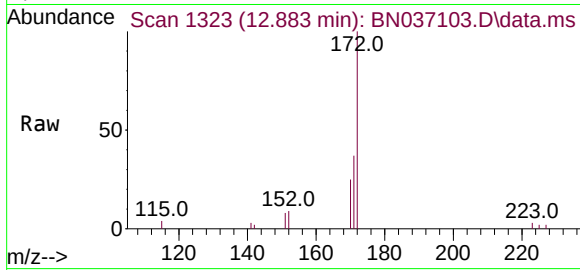
Tgt Ion:330 Resp: 192  
Ion Ratio Lower Upper  
330 100  
332 93.2 73.8 110.8  
141 55.7 43.9 65.9



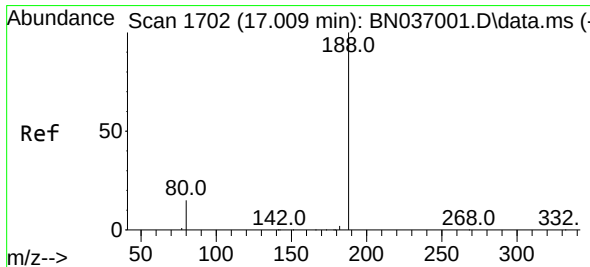
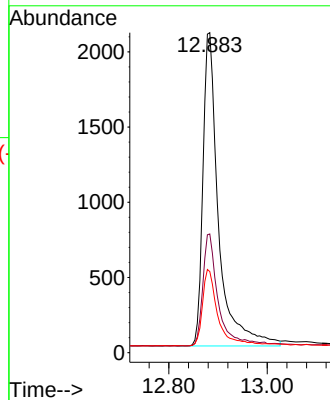
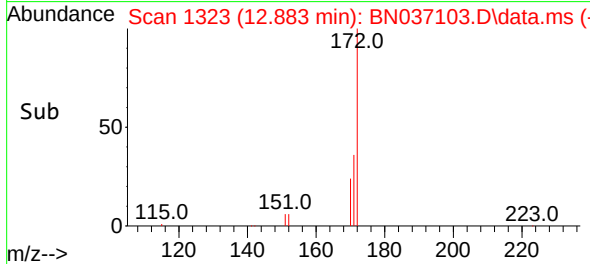


#15  
2-Fluorobiphenyl  
Concen: 0.345 ng  
RT: 12.883 min Scan# 11  
Delta R.T. -0.005 min  
Lab File: BN037103.D  
Acq: 28 May 2025 11:17

Instrument :  
BNA\_N  
ClientSampleId :  
PB168155BL

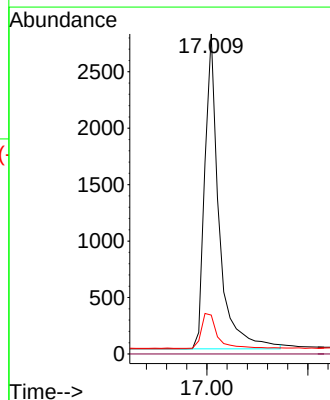
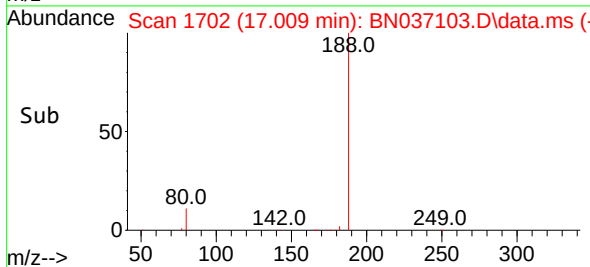
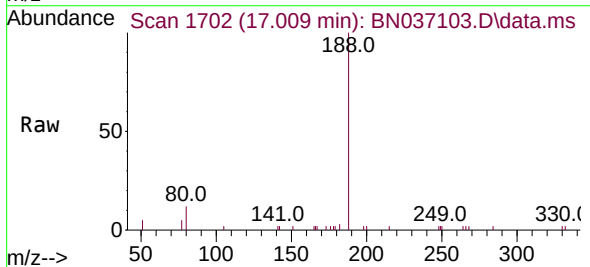


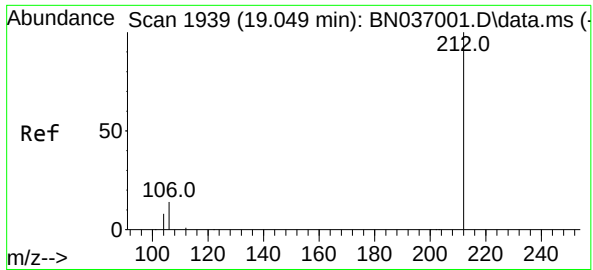
Tgt Ion:172 Resp: 4846  
Ion Ratio Lower Upper  
172 100  
171 37.1 29.2 43.8  
170 25.3 20.5 30.7



#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 17.009 min Scan# 1702  
Delta R.T. 0.000 min  
Lab File: BN037103.D  
Acq: 28 May 2025 11:17

Tgt Ion:188 Resp: 5493  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 12.1 13.4 20.0#





#27

Fluoranthene-d10

Concen: 0.321 ng

RT: 19.040 min Scan# 1937

Delta R.T. -0.009 min

Lab File: BN037103.D

Acq: 28 May 2025 11:17

Instrument :

BNA\_N

ClientSampleId :

PB168155BL

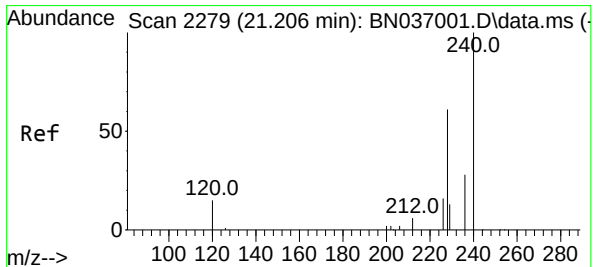
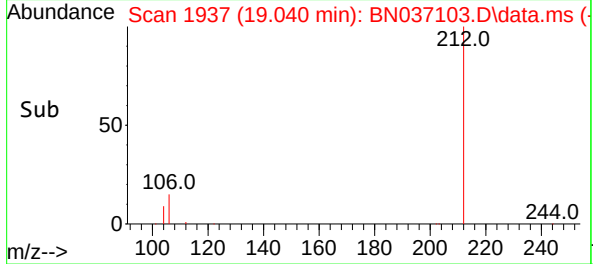
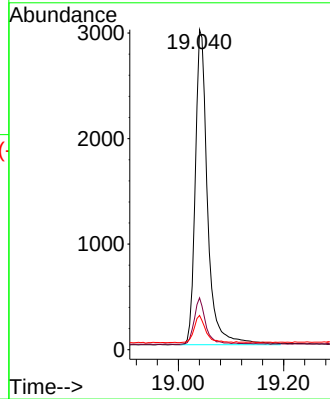
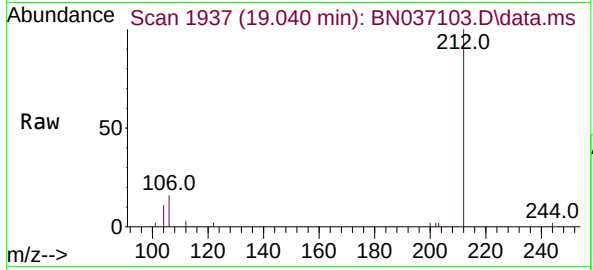
Tgt Ion:212 Resp: 4835

Ion Ratio Lower Upper

212 100

106 13.5 11.3 16.9

104 8.0 6.7 10.1



#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.206 min Scan# 2279

Delta R.T. 0.000 min

Lab File: BN037103.D

Acq: 28 May 2025 11:17

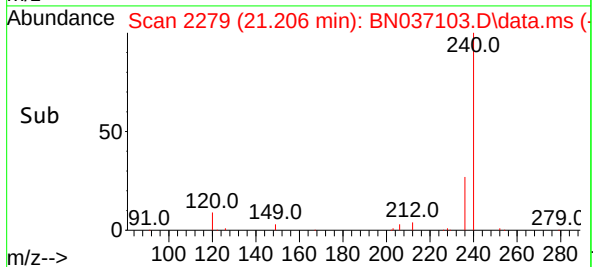
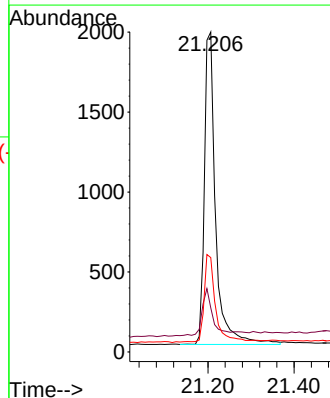
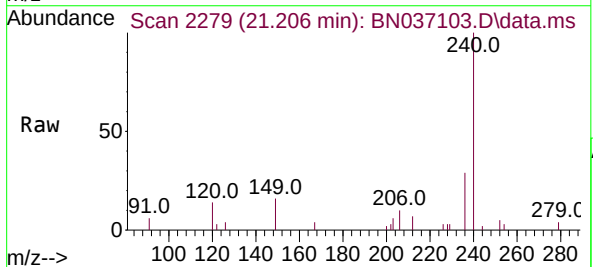
Tgt Ion:240 Resp: 3554

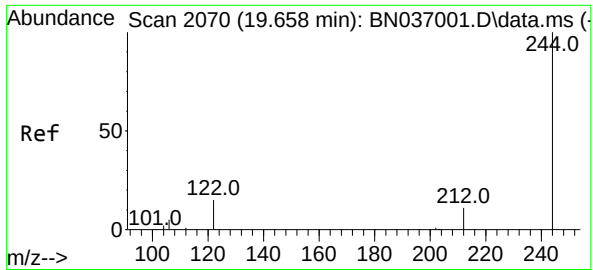
Ion Ratio Lower Upper

240 100

120 13.8 15.1 22.7#

236 29.5 24.0 36.0

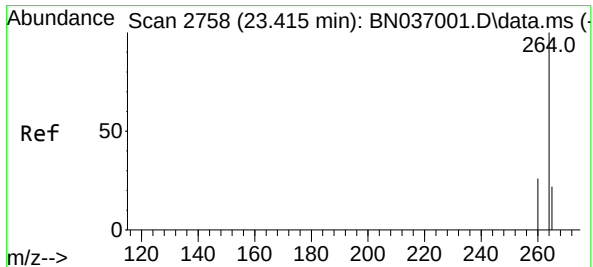
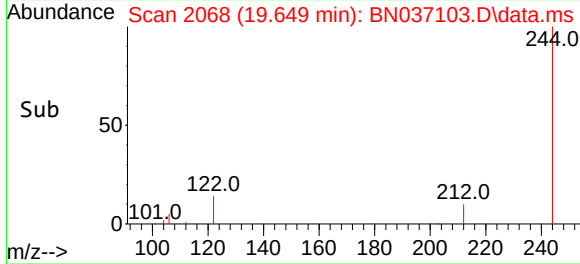
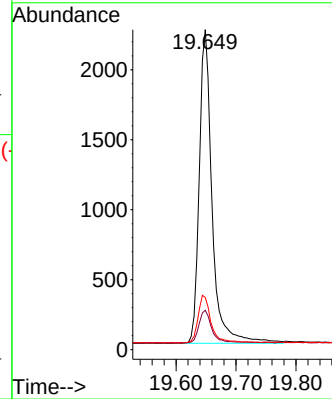
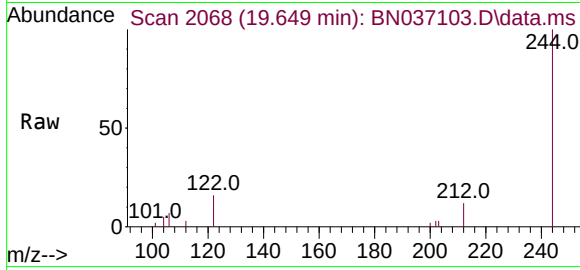




#31  
Terphenyl-d14  
Concen: 0.438 ng  
RT: 19.649 min Scan# 2070  
Delta R.T. -0.009 min  
Lab File: BN037103.D  
Acq: 28 May 2025 11:17

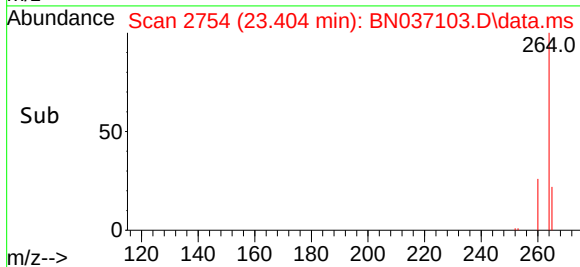
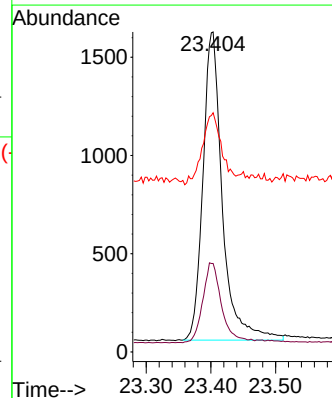
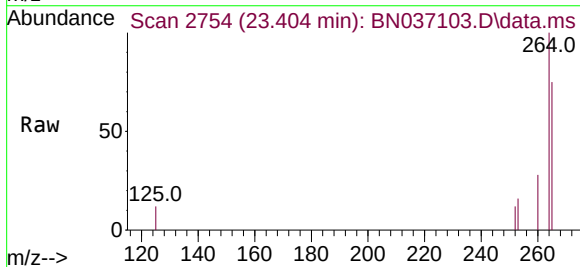
Instrument :  
BNA\_N  
ClientSampleId :  
PB168155BL

Tgt Ion:244 Resp: 3333  
Ion Ratio Lower Upper  
244 100  
212 12.3 9.7 14.5  
122 16.3 13.4 20.0



#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.404 min Scan# 2754  
Delta R.T. -0.012 min  
Lab File: BN037103.D  
Acq: 28 May 2025 11:17

Tgt Ion:264 Resp: 3269  
Ion Ratio Lower Upper  
264 100  
260 27.6 21.9 32.9  
265 74.8 51.6 77.4



## Report of Analysis

|                    |                               |                 |                |
|--------------------|-------------------------------|-----------------|----------------|
| Client:            | Tetra Tech NUS, Inc.          | Date Collected: |                |
| Project:           | NWIRP Bethpage 112G08005-WE13 | Date Received:  |                |
| Client Sample ID:  | PB168155BS                    | SDG No.:        | Q2118          |
| Lab Sample ID:     | PB168155BS                    | 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 |
| BN037108.D        | 1         | 05/23/25 11:50 | 05/28/25 14:17 | PB168155      |

| CAS Number                | Parameter               | Conc. | Qualifier | MDL      | LOD  | LOQ / CRQL | Units    |
|---------------------------|-------------------------|-------|-----------|----------|------|------------|----------|
| <b>TARGETS</b>            |                         |       |           |          |      |            |          |
| 123-91-1                  | 1,4-Dioxane             | 0.29  |           | 0.070    | 0.20 | 0.20       | ug/L     |
| <b>SURROGATES</b>         |                         |       |           |          |      |            |          |
| 7297-45-2                 | 2-Methylnaphthalene-d10 | 0.38  |           | 30 - 150 |      | 95%        | SPK: 0.4 |
| 93951-69-0                | Fluoranthene-d10        | 0.30  |           | 30 - 150 |      | 75%        | SPK: 0.4 |
| 4165-60-0                 | Nitrobenzene-d5         | 0.34  |           | 55 - 111 |      | 85%        | SPK: 0.4 |
| 321-60-8                  | 2-Fluorobiphenyl        | 0.35  |           | 53 - 106 |      | 87%        | SPK: 0.4 |
| 1718-51-0                 | Terphenyl-d14           | 0.42  |           | 58 - 132 |      | 105%       | SPK: 0.4 |
| <b>INTERNAL STANDARDS</b> |                         |       |           |          |      |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4  | 1970  | 7.611     |          |      |            |          |
| 1146-65-2                 | Naphthalene-d8          | 4930  | 10.394    |          |      |            |          |
| 15067-26-2                | Acenaphthene-d10        | 2430  | 14.256    |          |      |            |          |
| 1517-22-2                 | Phenanthrene-d10        | 4330  | 17.009    |          |      |            |          |
| 1719-03-5                 | Chrysene-d12            | 2750  | 21.198    |          |      |            |          |
| 1520-96-3                 | Perylene-d12            | 2560  | 23.398    |          |      |            |          |

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\BN052825\  
 Data File : BN037108.D  
 Acq On : 28 May 2025 14:17  
 Operator : RC/JU  
 Sample : PB168155BS  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 PB168155BS

Manual Integrations  
 APPROVED

Reviewed By :Rahul Chavli 05/29/2025  
 Supervised By :Jagrut Upadhyay 05/29/2025

Quant Time: May 28 15:38:43 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN051425.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 14 11:26:32 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.611  | 152  | 1969     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.394 | 136  | 4930     | 0.400 | ng    | -0.01    |
| 13) Acenaphthene-d10          | 14.256 | 164  | 2429     | 0.400 | ng    | -0.01    |
| 19) Phenanthrene-d10          | 17.009 | 188  | 4326     | 0.400 | ng    | # 0.00   |
| 29) Chrysene-d12              | 21.198 | 240  | 2746     | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.398 | 264  | 2563     | 0.400 | ng    | #-0.02   |
|                               |        |      |          |       |       |          |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.206  | 112  | 1695     | 0.329 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.788  | 99   | 2029     | 0.314 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.760  | 82   | 1824     | 0.340 | ng    | -0.01    |
| 11) 2-Methylnaphthalene-d10   | 11.986 | 152  | 2653m    | 0.382 | ng    | -0.01    |
| 14) 2,4,6-Tribromophenol      | 15.755 | 330  | 337      | 0.316 | ng    | -0.01    |
| 15) 2-Fluorobiphenyl          | 12.878 | 172  | 3875     | 0.348 | ng    | -0.01    |
| 27) Fluoranthene-d10          | 19.040 | 212  | 3574     | 0.301 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.649 | 244  | 2465     | 0.420 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| Target Compounds              |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.133  | 88   | 695      | 0.288 | ng    | # 28     |
| 3) n-Nitrosodimethylamine     | 3.444  | 42   | 1826     | 0.352 | ng    | # 89     |
| 6) bis(2-Chloroethyl)ether    | 7.040  | 93   | 1934     | 0.326 | ng    | 98       |
| 9) Naphthalene                | 10.436 | 128  | 4935     | 0.339 | ng    | 98       |
| 10) Hexachlorobutadiene       | 10.725 | 225  | 1127     | 0.369 | ng    | # 99     |
| 12) 2-Methylnaphthalene       | 12.062 | 142  | 2819     | 0.301 | ng    | 98       |
| 16) Acenaphthylene            | 13.978 | 152  | 4684     | 0.396 | ng    | 100      |
| 17) Acenaphthene              | 14.320 | 154  | 2750     | 0.356 | ng    | 99       |
| 18) Fluorene                  | 15.314 | 166  | 3561     | 0.351 | ng    | 99       |
| 20) 4,6-Dinitro-2-methylph... | 15.400 | 198  | 328      | 0.393 | ng    | 92       |
| 21) 4-Bromophenyl-phenylether | 16.202 | 248  | 1056     | 0.386 | ng    | 90       |
| 22) Hexachlorobenzene         | 16.314 | 284  | 1185     | 0.405 | ng    | 97       |
| 23) Atrazine                  | 16.475 | 200  | 853      | 0.358 | ng    | # 95     |
| 24) Pentachlorophenol         | 16.661 | 266  | 938      | 0.582 | ng    | 99       |
| 25) Phenanthrene              | 17.046 | 178  | 5049     | 0.357 | ng    | 99       |
| 26) Anthracene                | 17.133 | 178  | 4654     | 0.362 | ng    | 100      |
| 28) Fluoranthene              | 19.073 | 202  | 4961     | 0.294 | ng    | 98       |
| 30) Pyrene                    | 19.435 | 202  | 4905     | 0.418 | ng    | 100      |
| 32) Benzo(a)anthracene        | 21.189 | 228  | 3830     | 0.370 | ng    | 99       |
| 33) Chrysene                  | 21.233 | 228  | 4002     | 0.366 | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 21.126 | 149  | 2238     | 0.352 | ng    | 99       |
| 36) Indeno(1,2,3-cd)pyrene    | 25.602 | 276  | 4131     | 0.395 | ng    | 98       |
| 37) Benzo(b)fluoranthene      | 22.740 | 252  | 3658     | 0.344 | ng    | 96       |
| 38) Benzo(k)fluoranthene      | 22.784 | 252  | 3793     | 0.361 | ng    | 94       |
| 39) Benzo(a)pyrene            | 23.304 | 252  | 3441     | 0.382 | ng    | # 90     |
| 40) Dibenzo(a,h)anthracene    | 25.620 | 278  | 3166     | 0.388 | ng    | 97       |
| 41) Benzo(g,h,i)perylene      | 26.275 | 276  | 3702     | 0.418 | ng    | 98       |

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

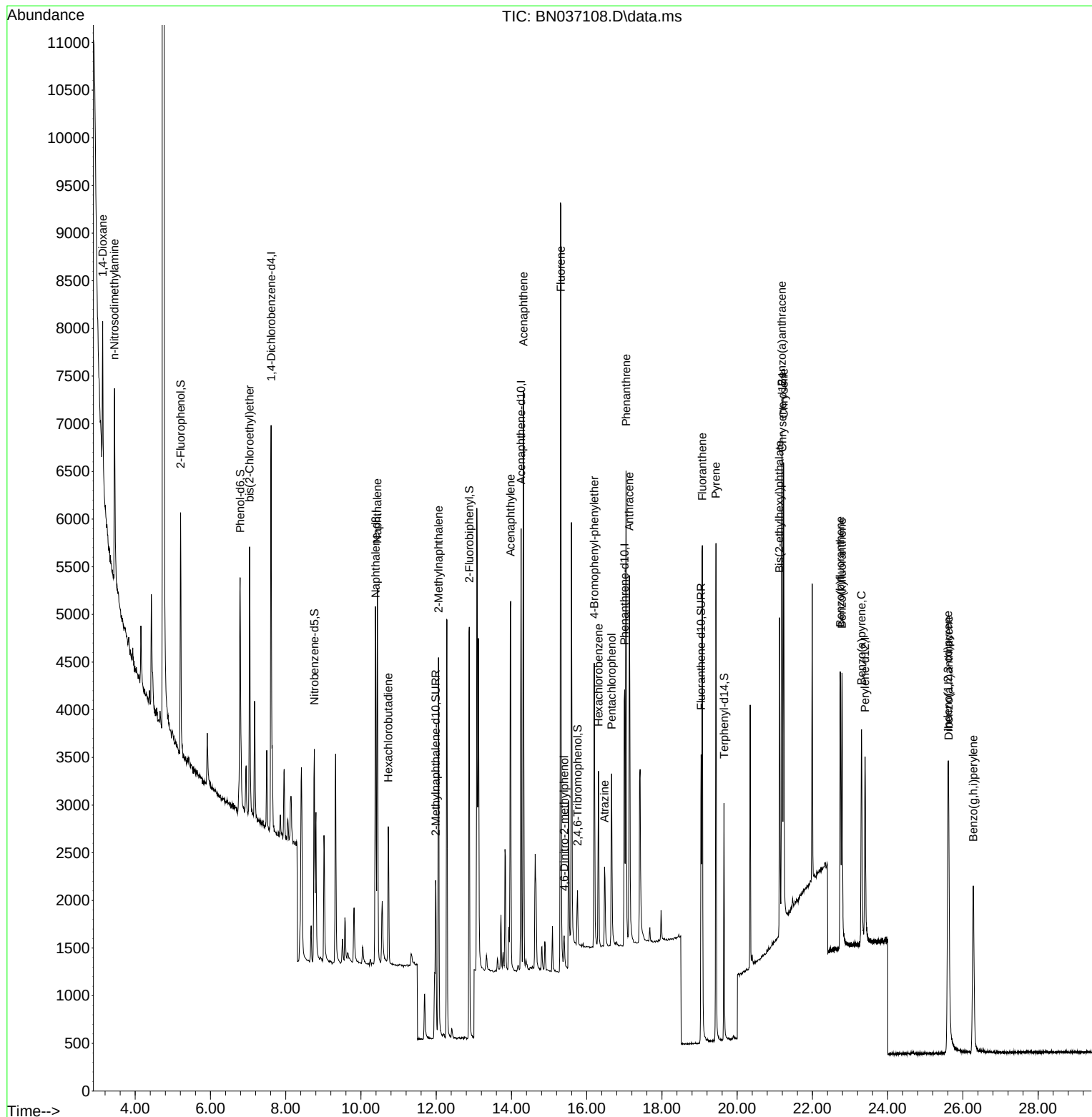
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN052825\  
Data File : BN037108.D  
Acq On : 28 May 2025 14:17  
Operator : RC/JU  
Sample : PB168155BS  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

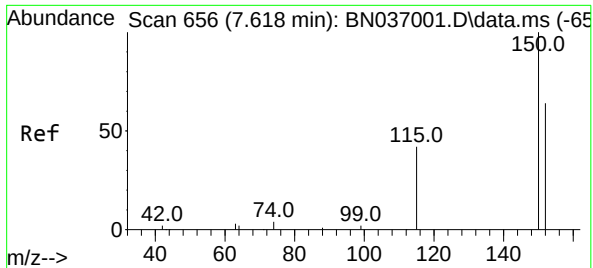
Instrument :  
BNA\_N  
ClientSampleId :  
PB168155BS

Manual Integrations  
**APPROVED**

Reviewed By :Rahul Chavli 05/29/2025  
Supervised By :Jagrut Upadhyay 05/29/2025

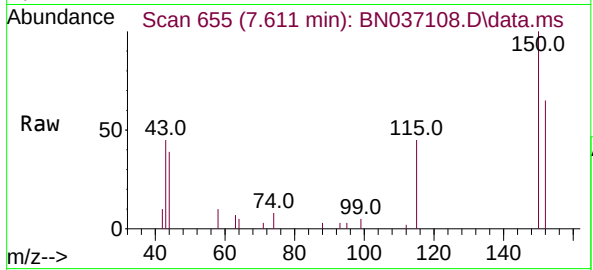
Quant Time: May 28 15:38:43 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN051425.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed May 14 11:26:32 2025  
Response via : Initial Calibration





#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.611 min Scan# 61  
Delta R.T. -0.007 min  
Lab File: BN037108.D  
Acq: 28 May 2025 14:17

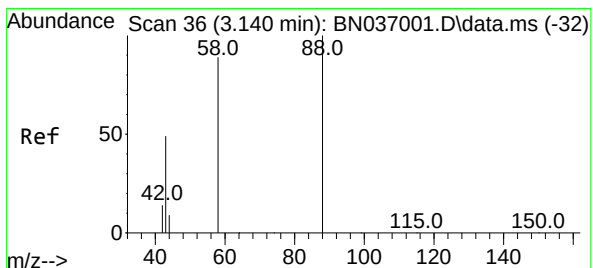
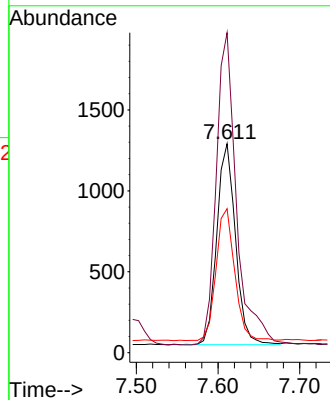
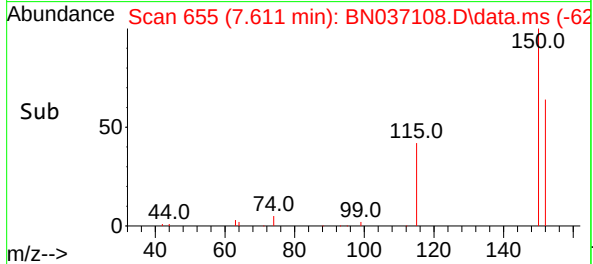
Instrument :  
BNA\_N  
ClientSampleId :  
PB168155BS



Tgt Ion: 152 Resp: 1969  
Ion Ratio Lower Upper  
152 100  
150 153.1 123.9 185.9  
115 68.9 55.8 83.8

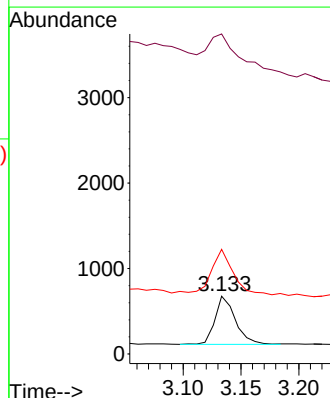
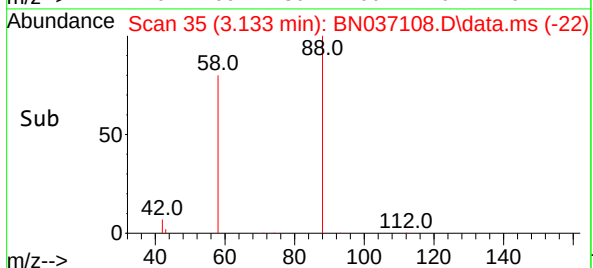
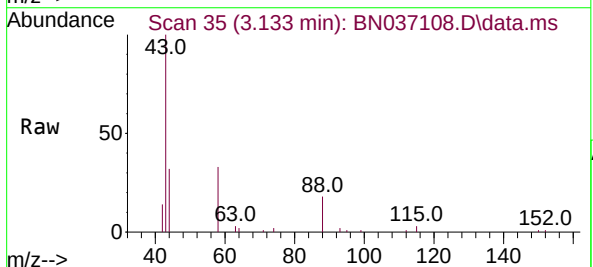
Manual Integrations  
**APPROVED**

Reviewed By :Rahul Chavli 05/29/2025  
Supervised By :Jagrut Upadhyay 05/29/2025

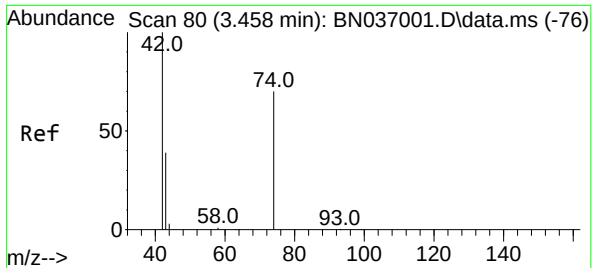


#2  
1,4-Dioxane  
Concen: 0.288 ng  
RT: 3.133 min Scan# 35  
Delta R.T. -0.007 min  
Lab File: BN037108.D  
Acq: 28 May 2025 14:17

Tgt Ion: 88 Resp: 695  
Ion Ratio Lower Upper  
88 100  
43 153.7 37.4 56.0#  
58 108.1 68.8 103.2#

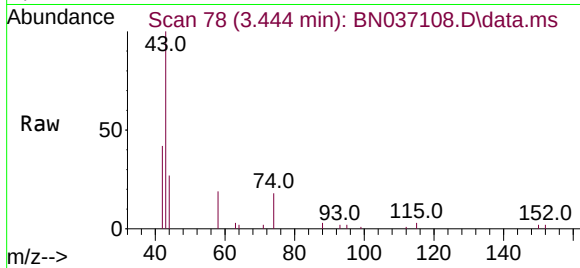






#3  
n-Nitrosodimethylamine  
Concen: 0.352 ng  
RT: 3.444 min Scan# 71  
Delta R.T. -0.014 min  
Lab File: BN037108.D  
Acq: 28 May 2025 14:17

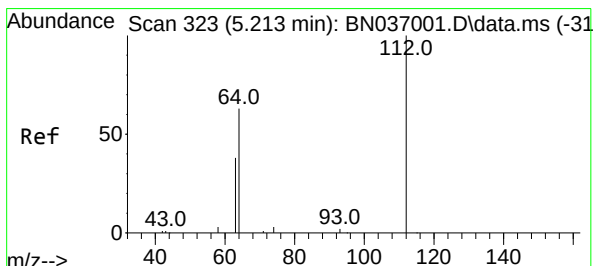
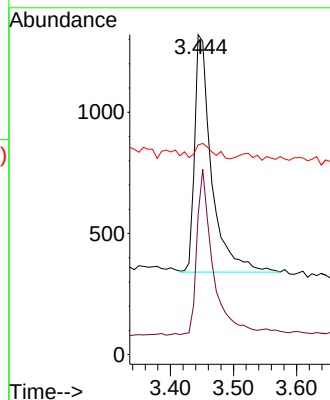
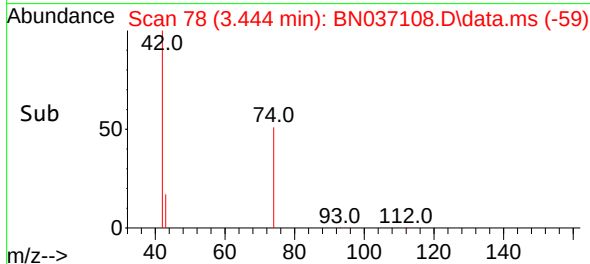
Instrument :  
BNA\_N  
ClientSampleId :  
PB168155BS



Tgt Ion: 42 Resp: 1820  
Ion Ratio Lower Upper  
42 100  
74 66.4 59.8 89.6  
44 6.8 11.9 17.9

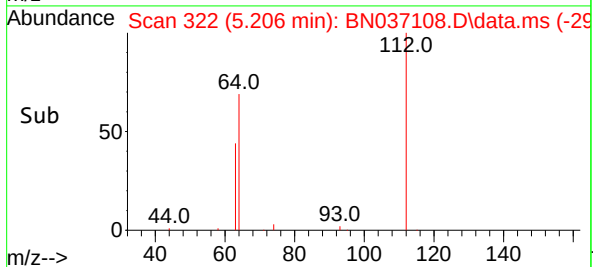
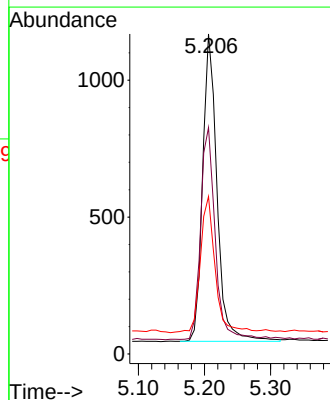
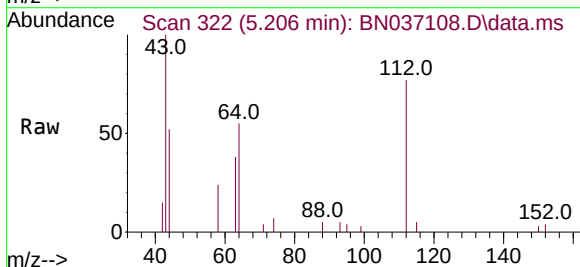
Manual Integrations  
APPROVED

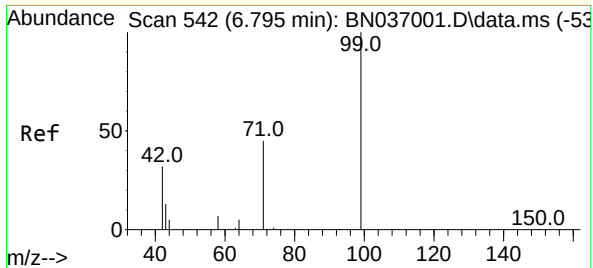
Reviewed By :Rahul Chavli 05/29/2025  
Supervised By :Jagrut Upadhyay 05/29/2025



#4  
2-Fluorophenol  
Concen: 0.329 ng  
RT: 5.206 min Scan# 322  
Delta R.T. -0.007 min  
Lab File: BN037108.D  
Acq: 28 May 2025 14:17

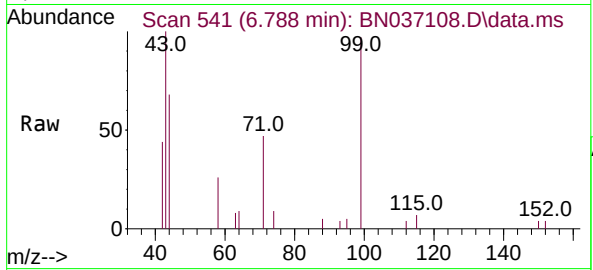
Tgt Ion:112 Resp: 1695  
Ion Ratio Lower Upper  
112 100  
64 70.3 55.7 83.5  
63 45.5 34.6 51.8





#5  
Phenol-d6  
Concen: 0.314 ng  
RT: 6.788 min Scan# 541  
Delta R.T. -0.007 min  
Lab File: BN037108.D  
Acq: 28 May 2025 14:17

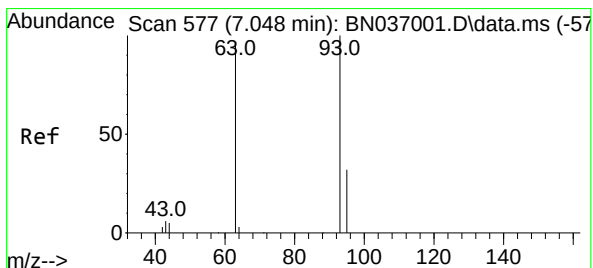
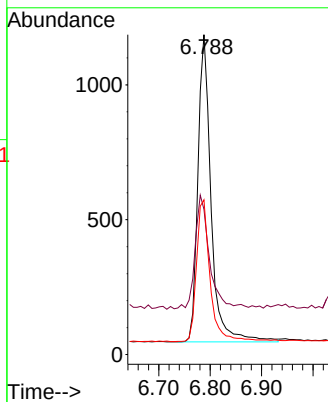
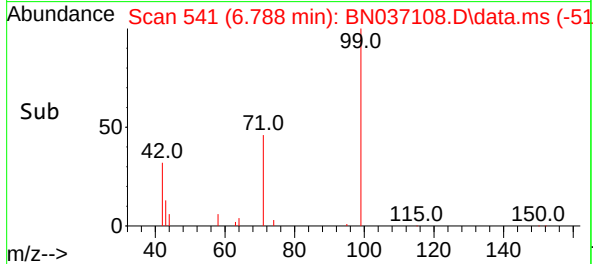
Instrument :  
BNA\_N  
ClientSampleId :  
PB168155BS



Tgt Ion: 99 Resp: 2029  
Ion Ratio Lower Upper  
99 100  
42 40.2 29.3 43.9  
71 48.2 35.7 53.5

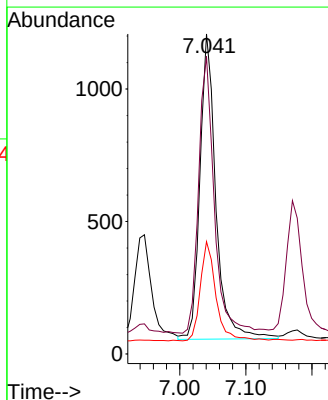
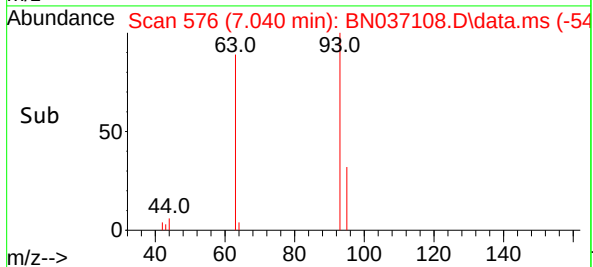
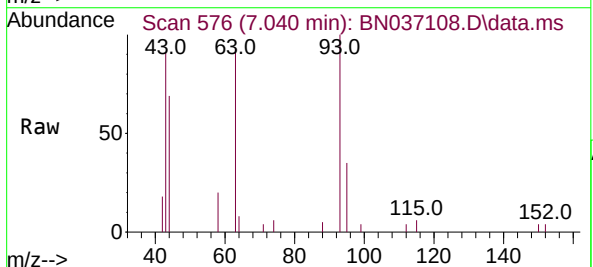
Manual Integrations  
**APPROVED**

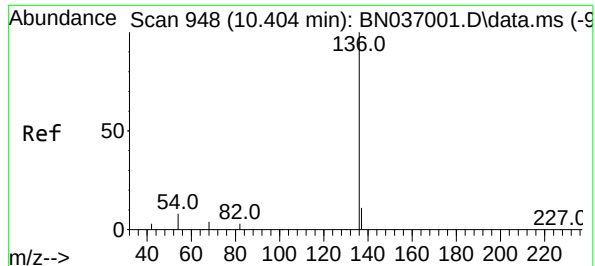
Reviewed By :Rahul Chavli 05/29/2025  
Supervised By :Jagrut Upadhyay 05/29/2025



#6  
bis(2-Chloroethyl)ether  
Concen: 0.326 ng  
RT: 7.040 min Scan# 576  
Delta R.T. -0.007 min  
Lab File: BN037108.D  
Acq: 28 May 2025 14:17

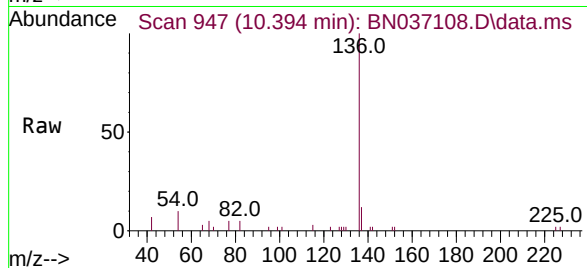
Tgt Ion: 93 Resp: 1934  
Ion Ratio Lower Upper  
93 100  
63 89.4 70.1 105.1  
95 31.7 26.2 39.2





#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.394 min Scan# 948  
Delta R.T. -0.011 min  
Lab File: BN037108.D  
Acq: 28 May 2025 14:17

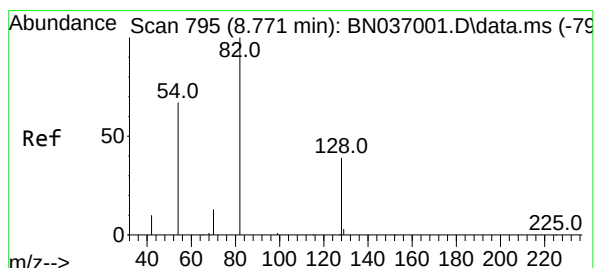
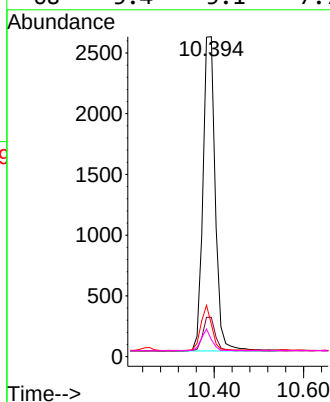
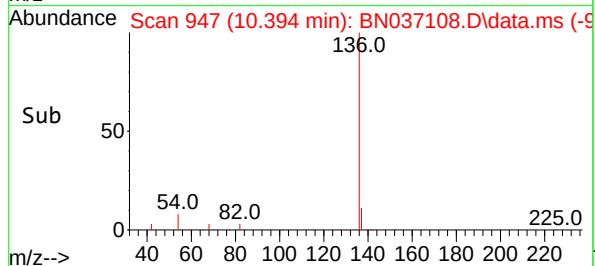
Instrument :  
BNA\_N  
ClientSampleId :  
PB168155BS



Tgt Ion:136 Resp: 4930  
Ion Ratio Lower Upper  
136 100  
137 12.3 10.4 15.6  
54 10.2 8.5 12.7  
68 5.4 5.1 7.7

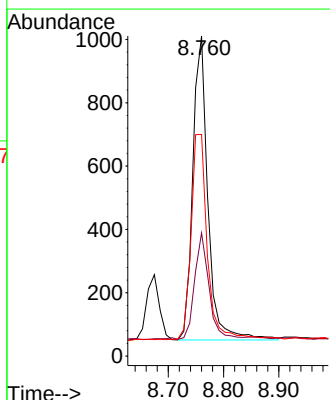
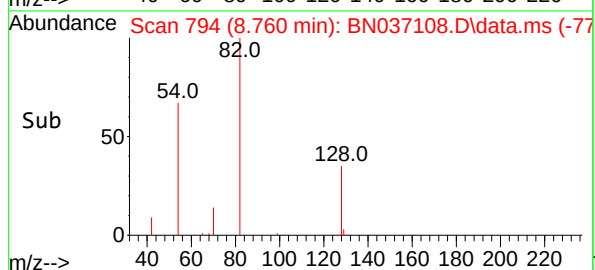
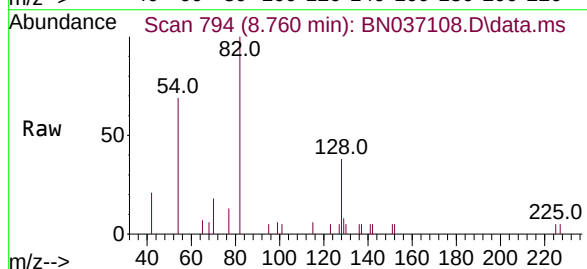
Manual Integrations  
APPROVED

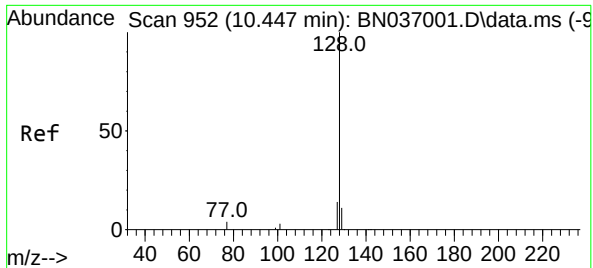
Reviewed By :Rahul Chavli 05/29/2025  
Supervised By :Jagrut Upadhyay 05/29/2025



#8  
Nitrobenzene-d5  
Concen: 0.340 ng  
RT: 8.760 min Scan# 794  
Delta R.T. -0.011 min  
Lab File: BN037108.D  
Acq: 28 May 2025 14:17

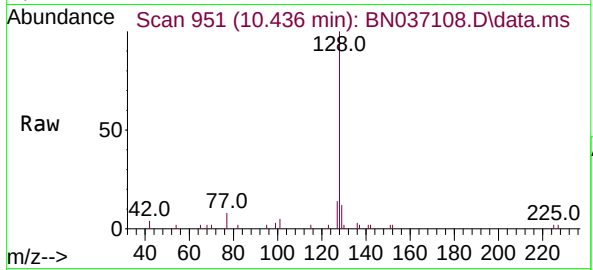
Tgt Ion: 82 Resp: 1824  
Ion Ratio Lower Upper  
82 100  
128 38.5 34.0 51.0  
54 69.2 55.0 82.4





#9  
Naphthalene  
Concen: 0.339 ng  
RT: 10.436 min Scan# 91  
Delta R.T. -0.011 min  
Lab File: BN037108.D  
Acq: 28 May 2025 14:17

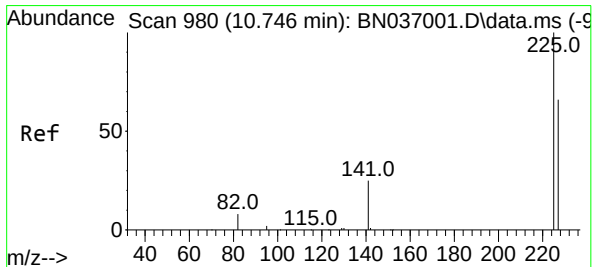
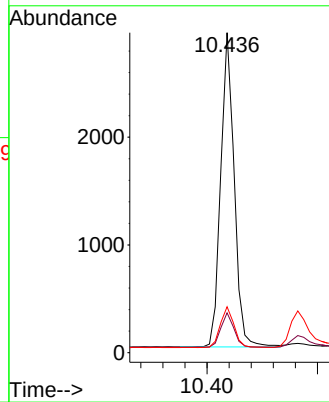
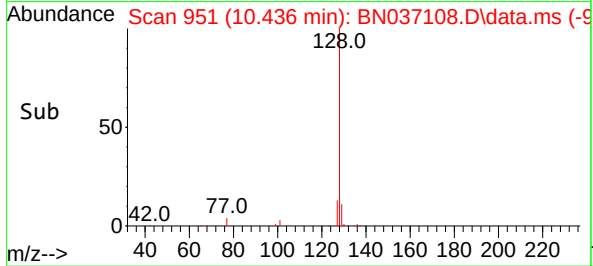
Instrument :  
BNA\_N  
ClientSampleId :  
PB168155BS



Tgt Ion:128 Resp: 493  
Ion Ratio Lower Upper  
128 100  
129 12.5 9.7 14.5  
127 14.4 12.4 18.6

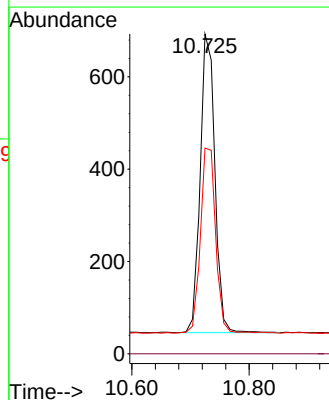
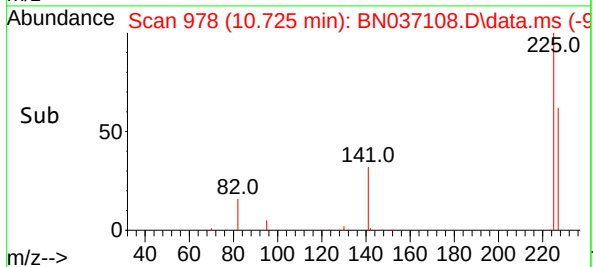
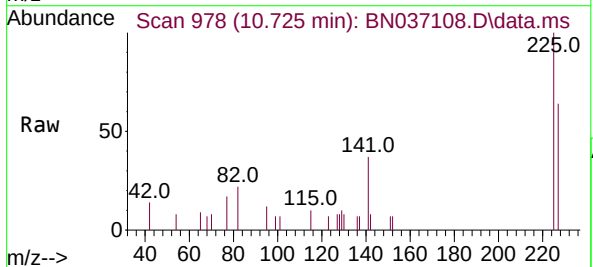
Manual Integrations  
**APPROVED**

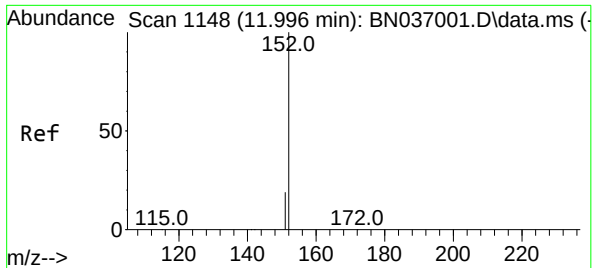
Reviewed By :Rahul Chavli 05/29/2025  
Supervised By :Jagrut Upadhyay 05/29/2025



#10  
Hexachlorobutadiene  
Concen: 0.369 ng  
RT: 10.725 min Scan# 978  
Delta R.T. -0.021 min  
Lab File: BN037108.D  
Acq: 28 May 2025 14:17

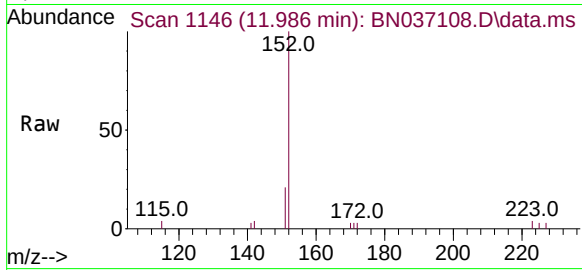
Tgt Ion:225 Resp: 1127  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 64.4 50.9 76.3





#11  
2-Methylnaphthalene-d10  
Concen: 0.382 ng m  
RT: 11.986 min Scan# 1146  
Delta R.T. -0.010 min  
Lab File: BN037108.D  
Acq: 28 May 2025 14:17

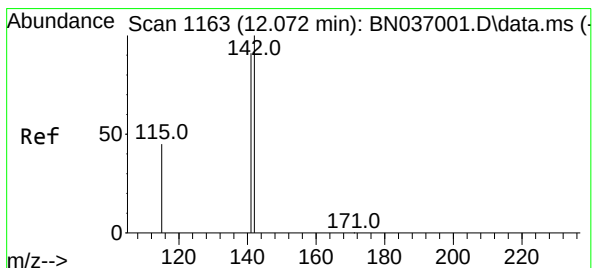
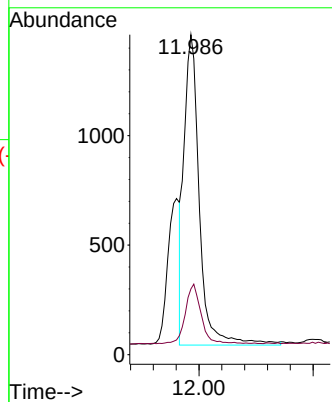
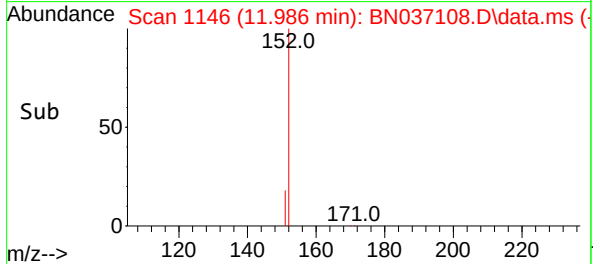
Instrument :  
BNA\_N  
ClientSampleId :  
PB168155BS



Tgt Ion:152 Resp: 265  
Ion Ratio Lower Upper  
152 100  
151 19.7 17.5 26.3

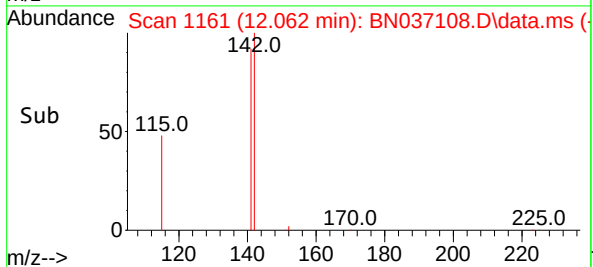
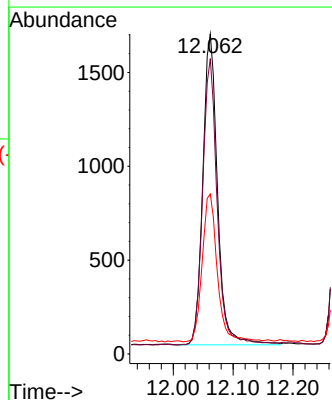
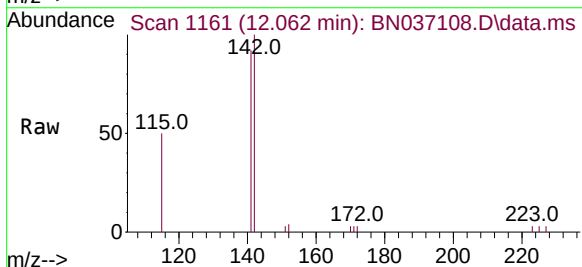
Manual Integrations  
**APPROVED**

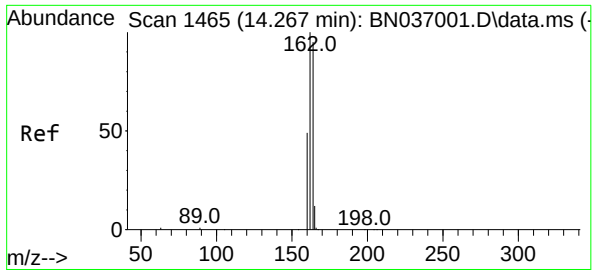
Reviewed By :Rahul Chavli 05/29/2025  
Supervised By :Jagrut Upadhyay 05/29/2025



#12  
2-Methylnaphthalene  
Concen: 0.301 ng  
RT: 12.062 min Scan# 1161  
Delta R.T. -0.010 min  
Lab File: BN037108.D  
Acq: 28 May 2025 14:17

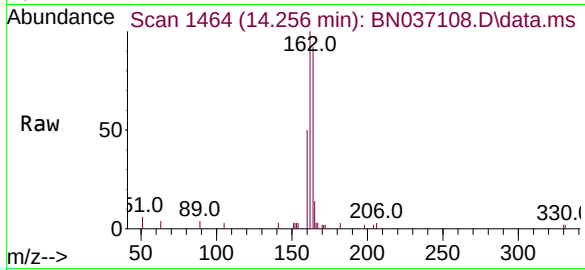
Tgt Ion:142 Resp: 2819  
Ion Ratio Lower Upper  
142 100  
141 92.3 73.3 109.9  
115 50.0 38.4 57.6





#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.256 min Scan# 1465  
Delta R.T. -0.011 min  
Lab File: BN037108.D  
Acq: 28 May 2025 14:17

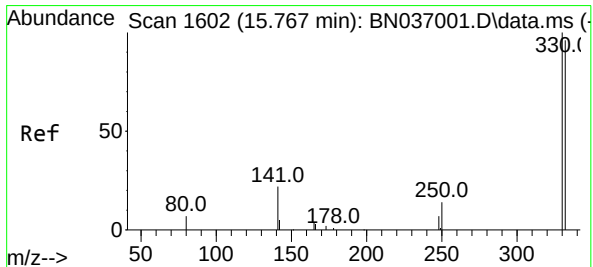
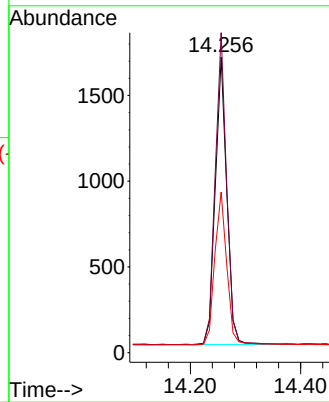
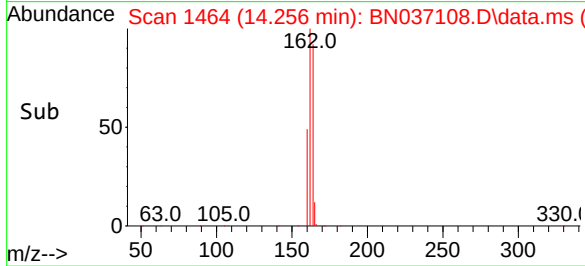
Instrument :  
BNA\_N  
ClientSampleId :  
PB168155BS



Tgt Ion:164 Resp: 2429  
Ion Ratio Lower Upper  
164 100  
162 108.3 84.2 126.4  
160 54.4 42.6 63.8

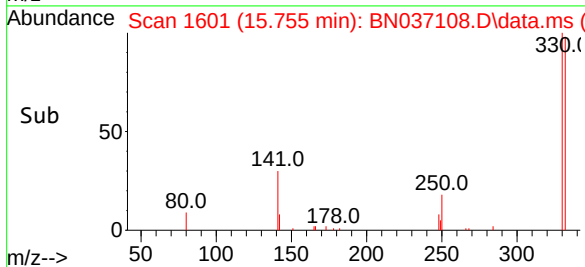
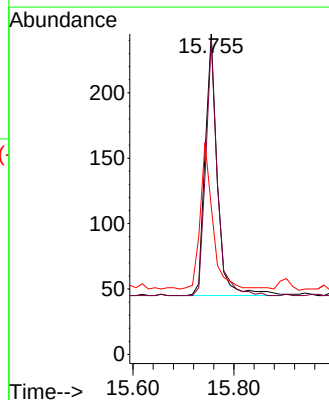
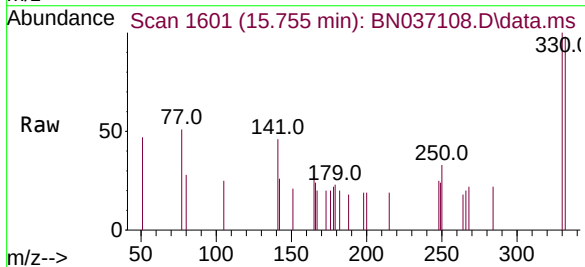
Manual Integrations  
APPROVED

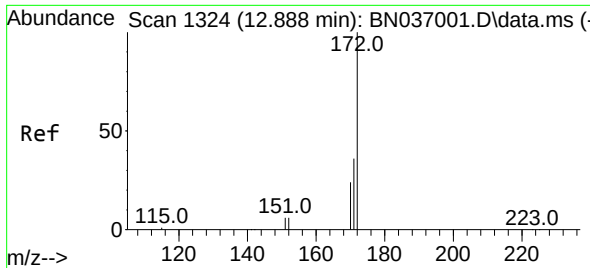
Reviewed By :Rahul Chavli 05/29/2025  
Supervised By :Jagrut Upadhyay 05/29/2025



#14  
2,4,6-Tribromophenol  
Concen: 0.316 ng  
RT: 15.755 min Scan# 1601  
Delta R.T. -0.012 min  
Lab File: BN037108.D  
Acq: 28 May 2025 14:17

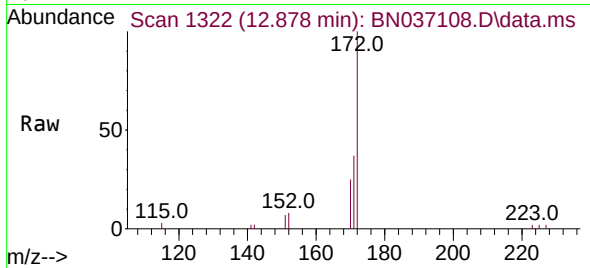
Tgt Ion:330 Resp: 337  
Ion Ratio Lower Upper  
330 100  
332 93.2 73.8 110.8  
141 56.7 43.9 65.9





#15  
2-Fluorobiphenyl  
Concen: 0.348 ng  
RT: 12.878 min Scan# 11  
Delta R.T. -0.010 min  
Lab File: BN037108.D  
Acq: 28 May 2025 14:17

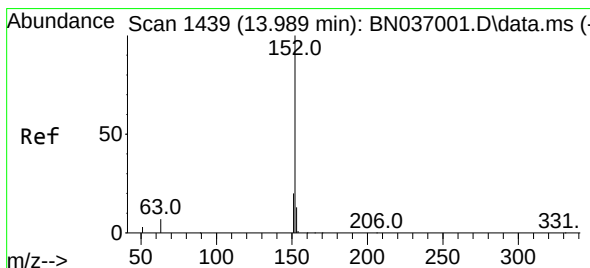
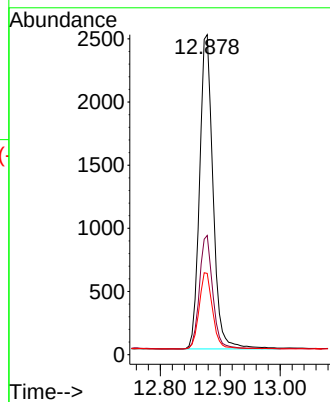
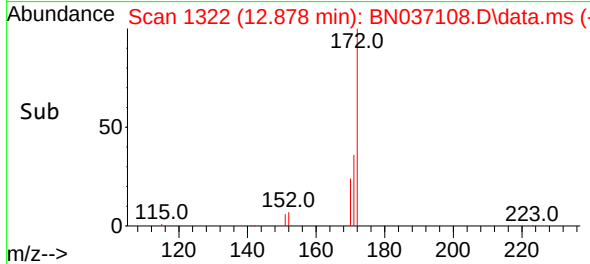
Instrument :  
BNA\_N  
ClientSampleId :  
PB168155BS



Tgt Ion:172 Resp: 387  
Ion Ratio Lower Upper  
172 100  
171 37.3 29.2 43.8  
170 25.4 20.5 30.7

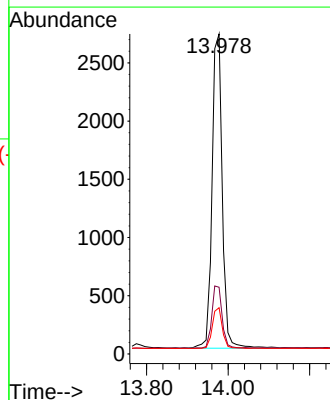
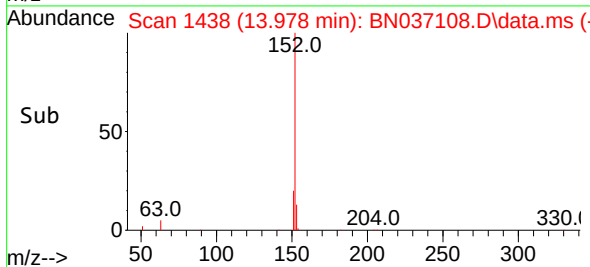
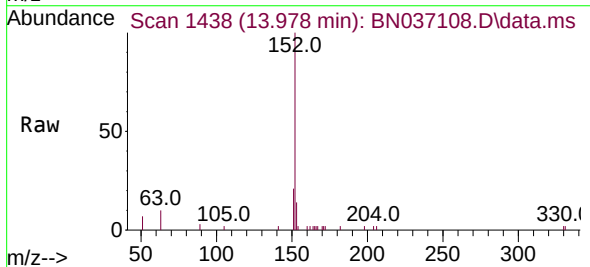
Manual Integrations  
**APPROVED**

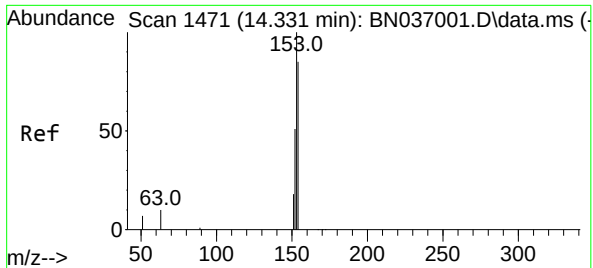
Reviewed By :Rahul Chavli 05/29/2025  
Supervised By :Jagrut Upadhyay 05/29/2025



#16  
Acenaphthylene  
Concen: 0.396 ng  
RT: 13.978 min Scan# 1438  
Delta R.T. -0.011 min  
Lab File: BN037108.D  
Acq: 28 May 2025 14:17

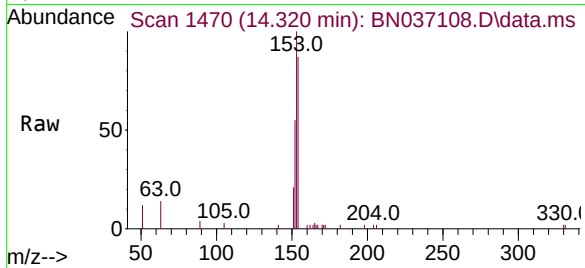
Tgt Ion:152 Resp: 4684  
Ion Ratio Lower Upper  
152 100  
151 20.0 16.1 24.1  
153 12.7 10.5 15.7





#17  
Acenaphthene  
Concen: 0.356 ng  
RT: 14.320 min Scan# 1471  
Delta R.T. -0.011 min  
Lab File: BN037108.D  
Acq: 28 May 2025 14:17

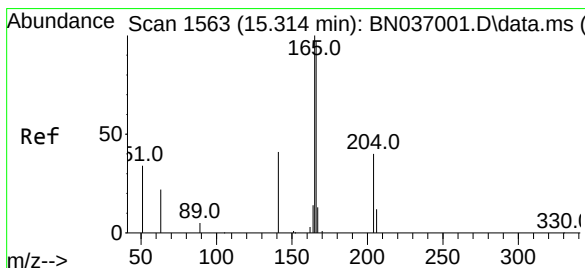
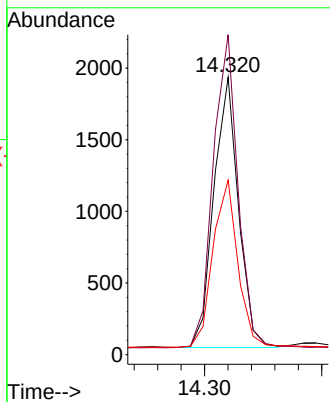
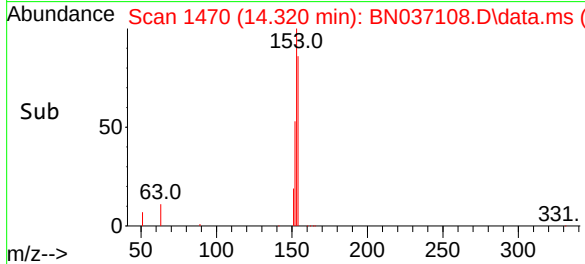
Instrument :  
BNA\_N  
ClientSampleId :  
PB168155BS



Tgt Ion:154 Resp: 2750  
Ion Ratio Lower Upper  
154 100  
153 117.0 94.2 141.4  
152 63.0 49.4 74.0

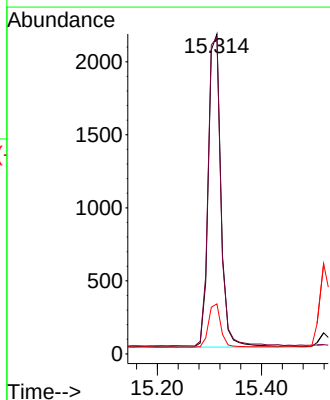
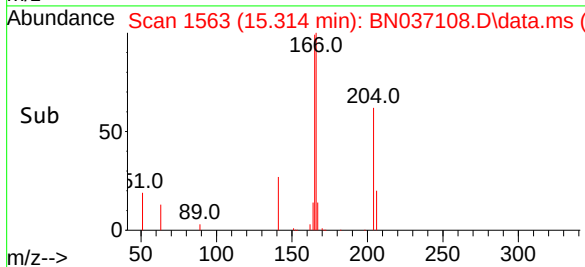
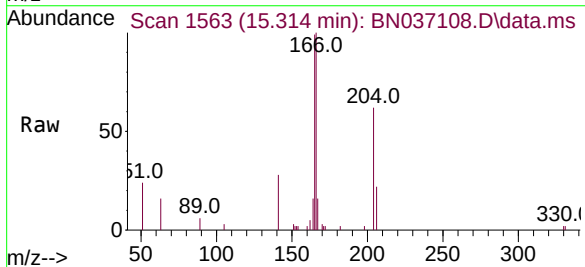
Manual Integrations  
**APPROVED**

Reviewed By :Rahul Chavli 05/29/2025  
Supervised By :Jagrut Upadhyay 05/29/2025

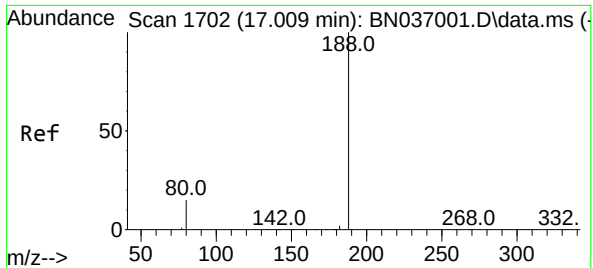


#18  
Fluorene  
Concen: 0.351 ng  
RT: 15.314 min Scan# 1563  
Delta R.T. 0.000 min  
Lab File: BN037108.D  
Acq: 28 May 2025 14:17

Tgt Ion:166 Resp: 3561  
Ion Ratio Lower Upper  
166 100  
165 99.7 80.6 120.8  
167 14.0 10.6 16.0

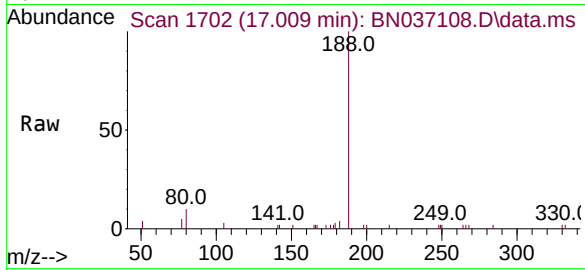






#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 17.009 min Scan# 1702  
Delta R.T. 0.000 min  
Lab File: BN037108.D  
Acq: 28 May 2025 14:17

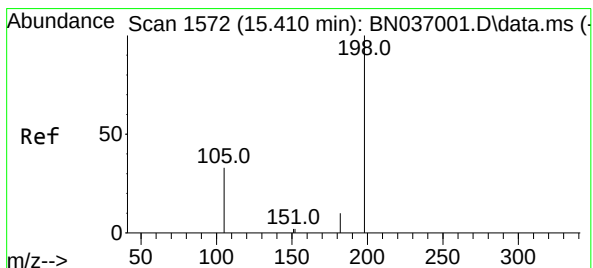
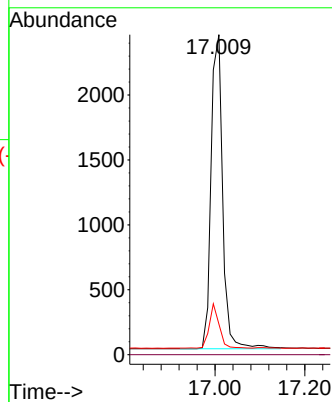
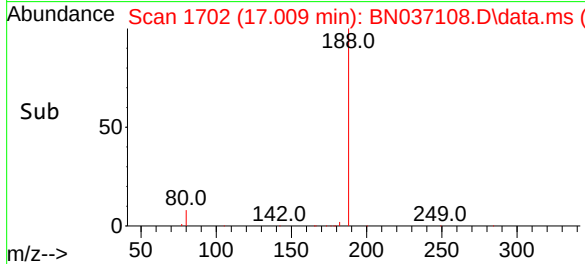
Instrument :  
BNA\_N  
ClientSampleId :  
PB168155BS



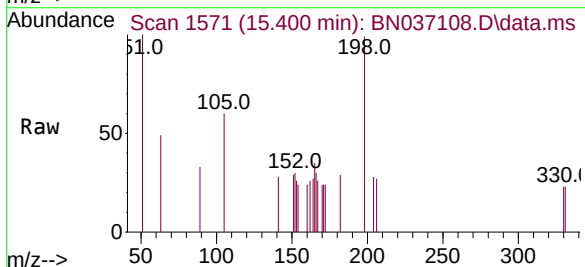
Tgt Ion:188 Resp: 4320  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 9.6 13.4 20.0

Manual Integrations  
APPROVED

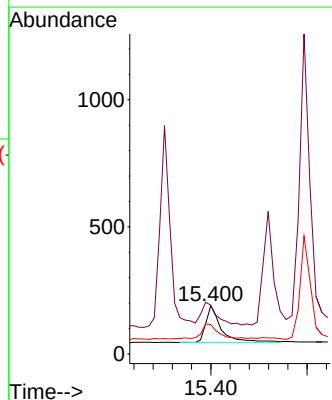
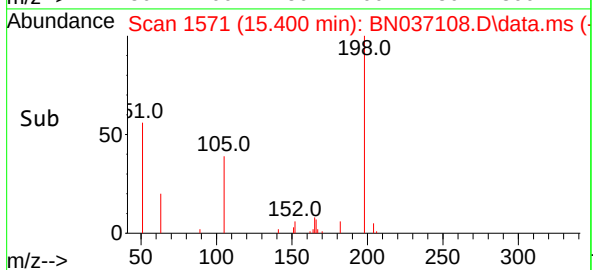
Reviewed By :Rahul Chavli 05/29/2025  
Supervised By :Jagrut Upadhyay 05/29/2025

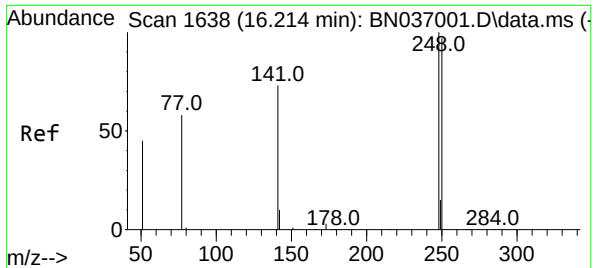


#20  
4,6-Dinitro-2-methylphenol  
Concen: 0.393 ng  
RT: 15.400 min Scan# 1571  
Delta R.T. -0.010 min  
Lab File: BN037108.D  
Acq: 28 May 2025 14:17



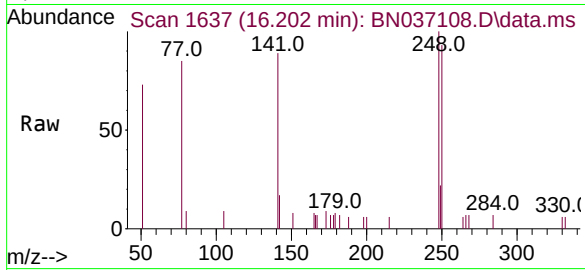
Tgt Ion:198 Resp: 328  
Ion Ratio Lower Upper  
198 100  
51 101.1 87.8 131.6  
105 60.5 44.2 66.4





#21  
4-Bromophenyl-phenylether  
Concen: 0.386 ng  
RT: 16.202 min Scan# 1637  
Delta R.T. -0.012 min  
Lab File: BN037108.D  
Acq: 28 May 2025 14:17

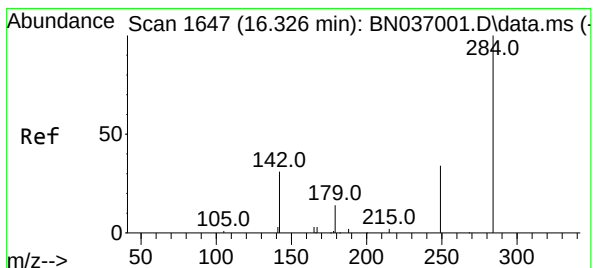
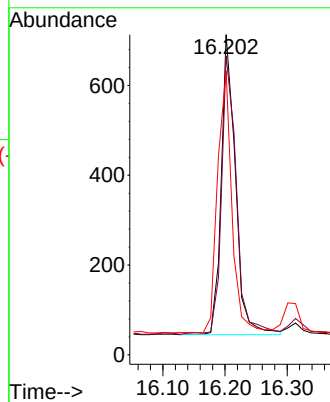
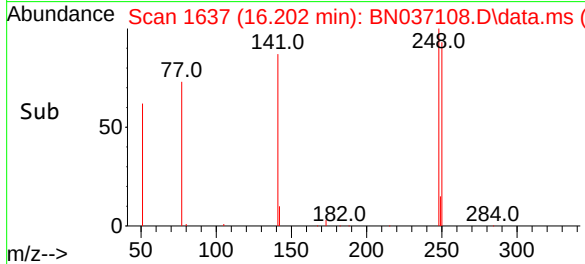
Instrument :  
BNA\_N  
ClientSampleId :  
PB168155BS



Tgt Ion:248 Resp: 1050  
Ion Ratio Lower Upper  
248 100  
250 93.4 78.1 117.1  
141 88.8 59.7 89.5

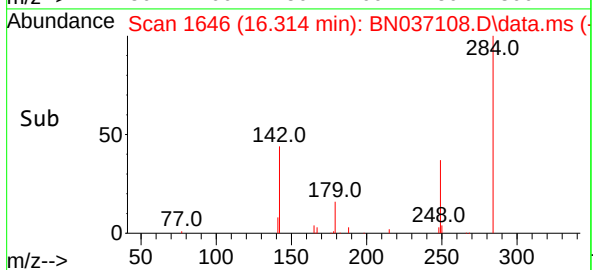
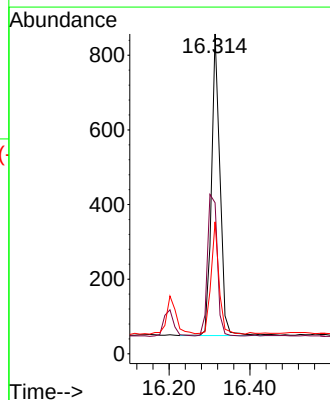
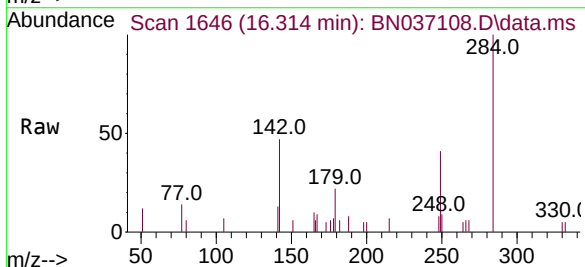
Manual Integrations  
APPROVED

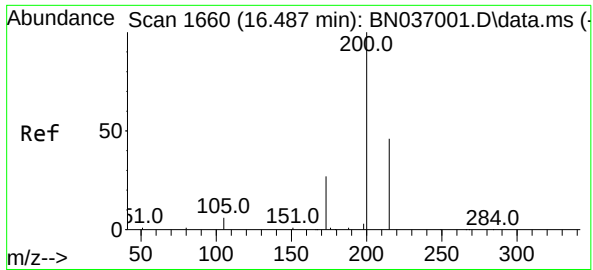
Reviewed By :Rahul Chavli 05/29/2025  
Supervised By :Jagrut Upadhyay 05/29/2025



#22  
Hexachlorobenzene  
Concen: 0.405 ng  
RT: 16.314 min Scan# 1646  
Delta R.T. -0.012 min  
Lab File: BN037108.D  
Acq: 28 May 2025 14:17

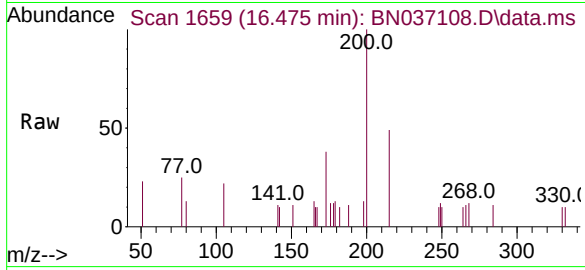
Tgt Ion:284 Resp: 1185  
Ion Ratio Lower Upper  
284 100  
142 54.0 41.2 61.8  
249 34.6 28.7 43.1





#23  
Atrazine  
Concen: 0.358 ng  
RT: 16.475 min Scan# 1659  
Delta R.T. -0.012 min  
Lab File: BN037108.D  
Acq: 28 May 2025 14:17

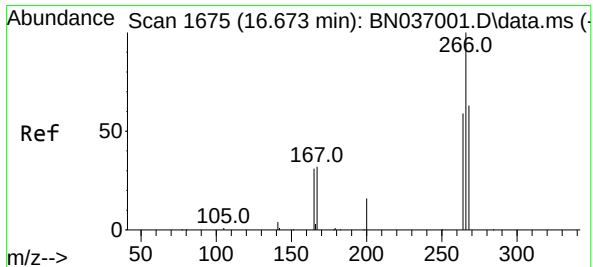
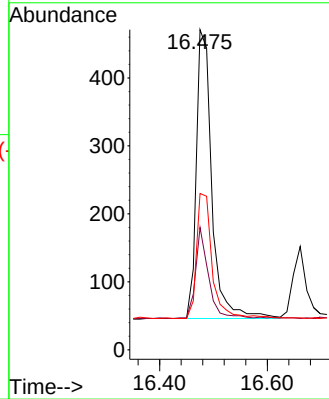
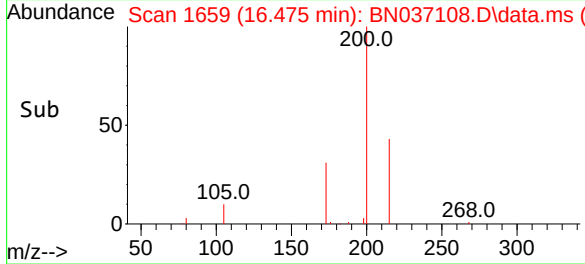
Instrument :  
BNA\_N  
ClientSampleId :  
PB168155BS



Tgt Ion:200 Resp: 85  
Ion Ratio Lower Upper  
200 100  
173 38.2 25.2 37.8  
215 48.8 39.3 58.9

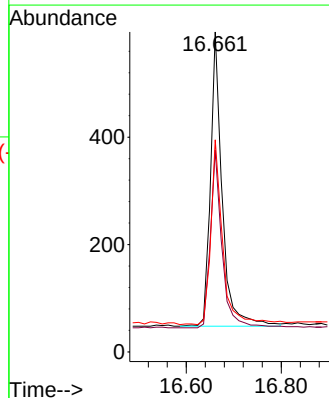
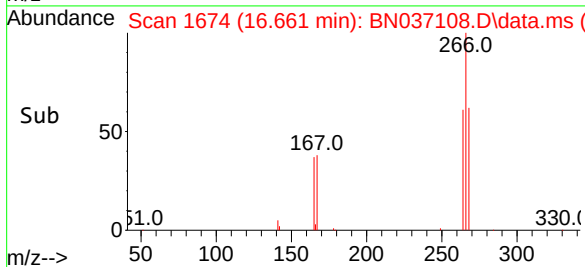
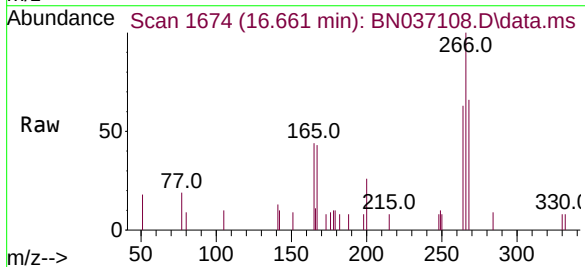
Manual Integrations  
APPROVED

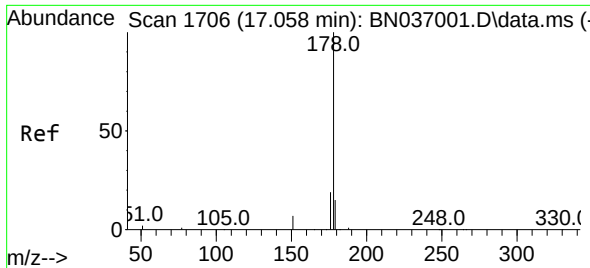
Reviewed By :Rahul Chavli 05/29/2025  
Supervised By :Jagrut Upadhyay 05/29/2025



#24  
Pentachlorophenol  
Concen: 0.582 ng  
RT: 16.661 min Scan# 1674  
Delta R.T. -0.012 min  
Lab File: BN037108.D  
Acq: 28 May 2025 14:17

Tgt Ion:266 Resp: 938  
Ion Ratio Lower Upper  
266 100  
264 60.4 47.9 71.9  
268 63.0 50.0 75.0





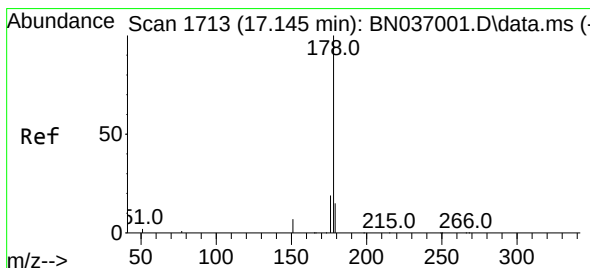
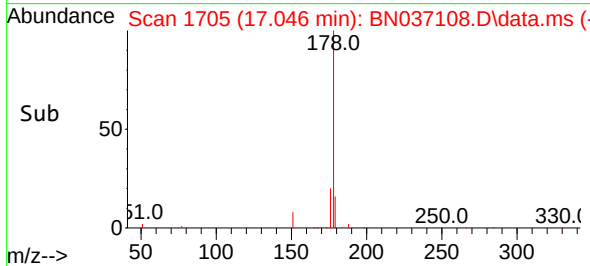
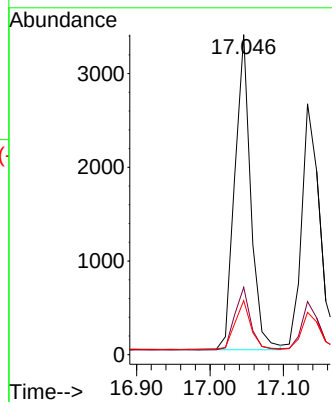
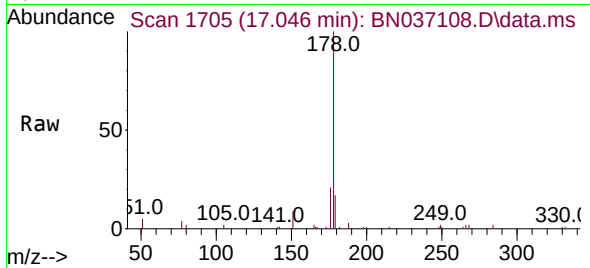
#25  
Phenanthrene  
Concen: 0.357 ng  
RT: 17.046 min Scan# 1710  
Delta R.T. -0.012 min  
Lab File: BN037108.D  
Acq: 28 May 2025 14:17

Instrument :  
BNA\_N  
ClientSampleId :  
PB168155BS

Tgt Ion:178 Resp: 5049  
Ion Ratio Lower Upper  
178 100  
176 19.5 15.7 23.5  
179 15.7 12.2 18.2

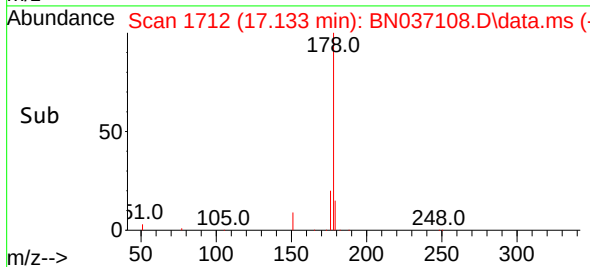
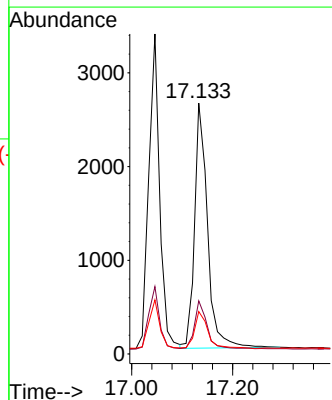
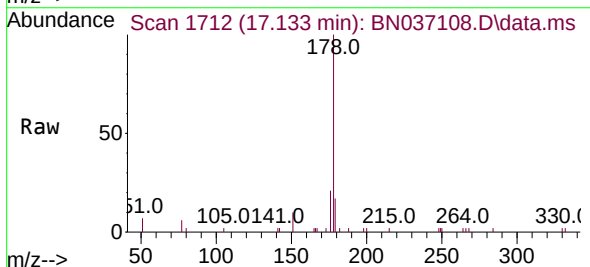
Manual Integrations  
**APPROVED**

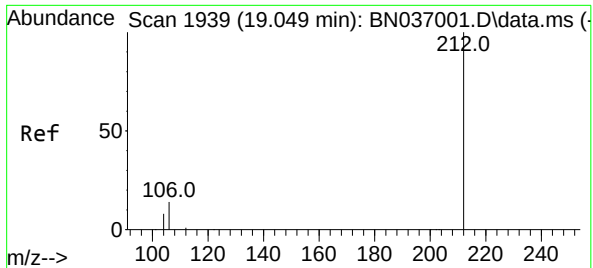
Reviewed By :Rahul Chavli 05/29/2025  
Supervised By :Jagrut Upadhyay 05/29/2025



#26  
Anthracene  
Concen: 0.362 ng  
RT: 17.133 min Scan# 1712  
Delta R.T. -0.012 min  
Lab File: BN037108.D  
Acq: 28 May 2025 14:17

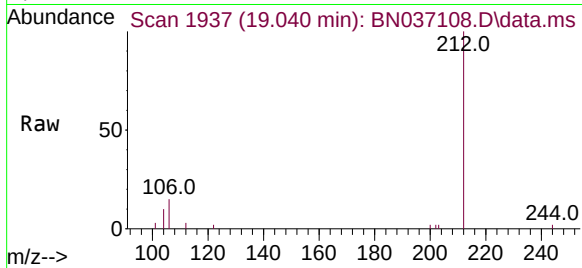
Tgt Ion:178 Resp: 4654  
Ion Ratio Lower Upper  
178 100  
176 18.8 15.0 22.6  
179 15.3 12.3 18.5





#27  
Fluoranthene-d10  
Concen: 0.301 ng  
RT: 19.040 min Scan# 1937  
Delta R.T. -0.009 min  
Lab File: BN037108.D  
Acq: 28 May 2025 14:17

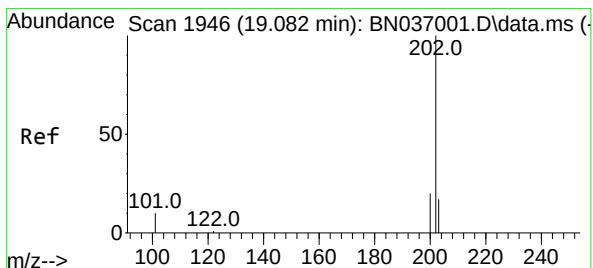
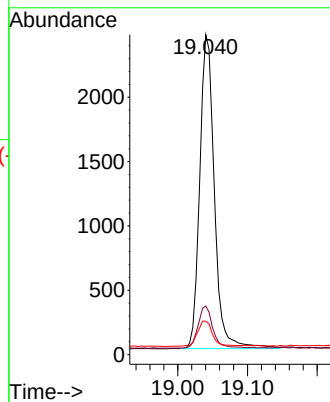
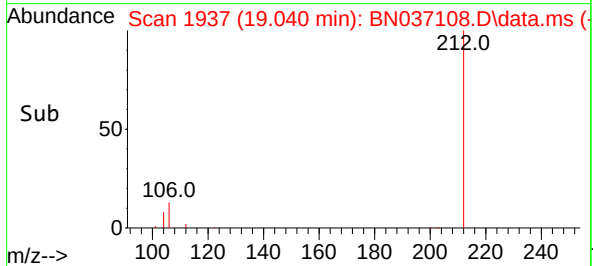
Instrument :  
BNA\_N  
ClientSampleId :  
PB168155BS



Tgt Ion:212 Resp: 3574  
Ion Ratio Lower Upper  
212 100  
106 13.5 11.3 16.9  
104 8.6 6.7 10.1

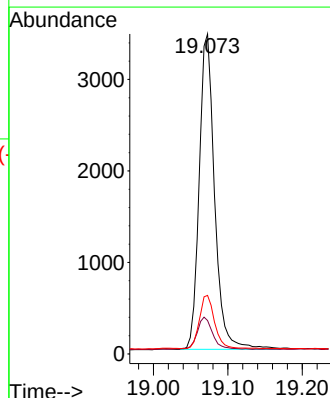
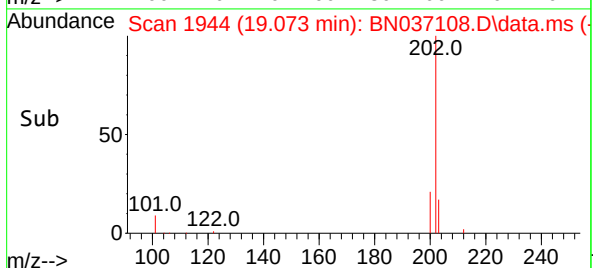
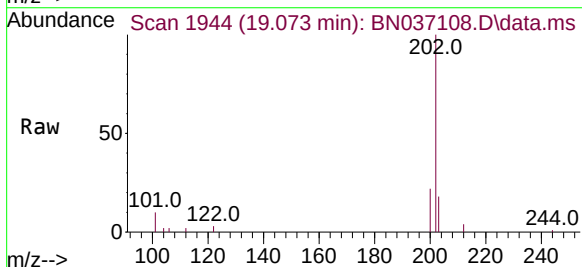
Manual Integrations  
APPROVED

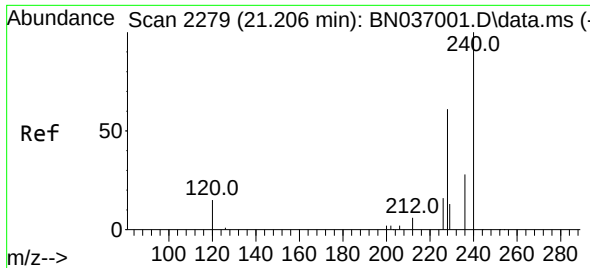
Reviewed By :Rahul Chavli 05/29/2025  
Supervised By :Jagrut Upadhyay 05/29/2025



#28  
Fluoranthene  
Concen: 0.294 ng  
RT: 19.073 min Scan# 1944  
Delta R.T. -0.009 min  
Lab File: BN037108.D  
Acq: 28 May 2025 14:17

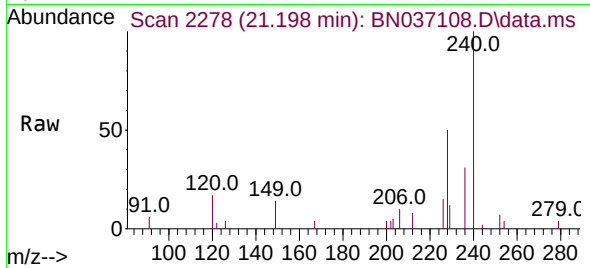
Tgt Ion:202 Resp: 4961  
Ion Ratio Lower Upper  
202 100  
101 10.2 8.9 13.3  
203 16.8 13.8 20.8





#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.198 min Scan# 21198  
Delta R.T. -0.009 min  
Lab File: BN037108.D  
Acq: 28 May 2025 14:17

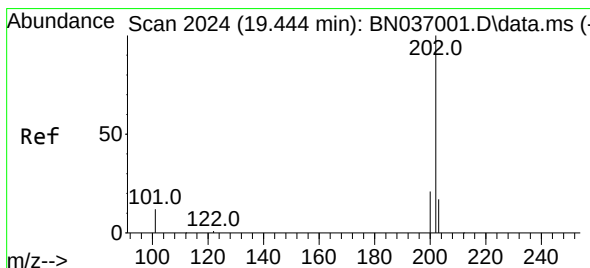
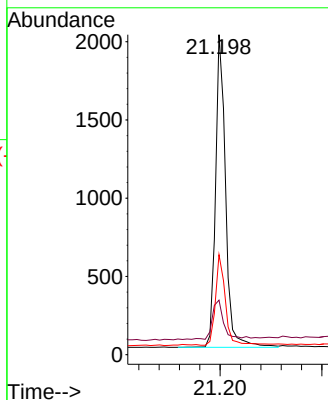
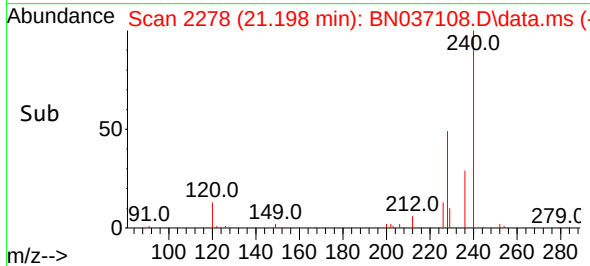
Instrument :  
BNA\_N  
ClientSampleId :  
PB168155BS



Tgt Ion:240 Resp: 2740  
Ion Ratio Lower Upper  
240 100  
120 17.1 15.1 22.7  
236 31.2 24.0 36.0

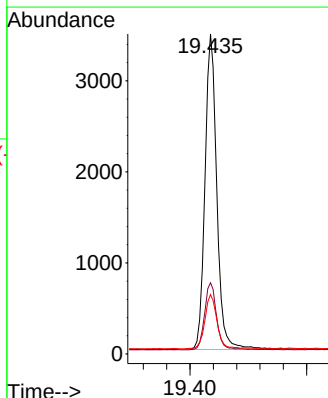
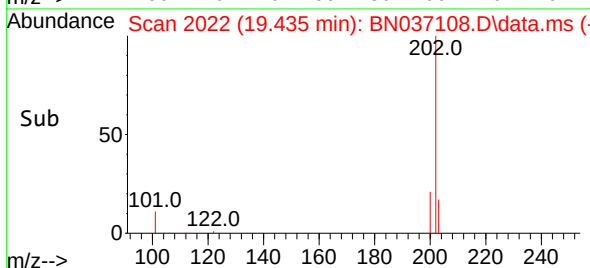
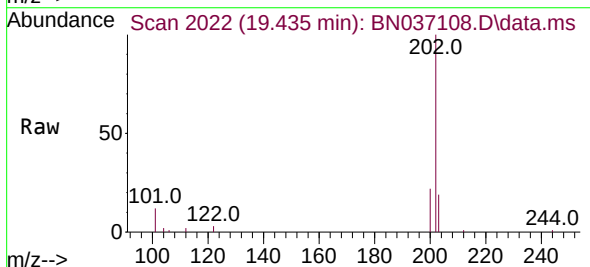
Manual Integrations  
**APPROVED**

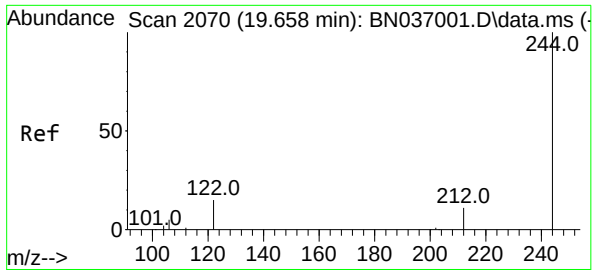
Reviewed By :Rahul Chavli 05/29/2025  
Supervised By :Jagrut Upadhyay 05/29/2025



#30  
Pyrene  
Concen: 0.418 ng  
RT: 19.435 min Scan# 2022  
Delta R.T. -0.009 min  
Lab File: BN037108.D  
Acq: 28 May 2025 14:17

Tgt Ion:202 Resp: 4905  
Ion Ratio Lower Upper  
202 100  
200 21.4 17.1 25.7  
203 17.9 14.2 21.4





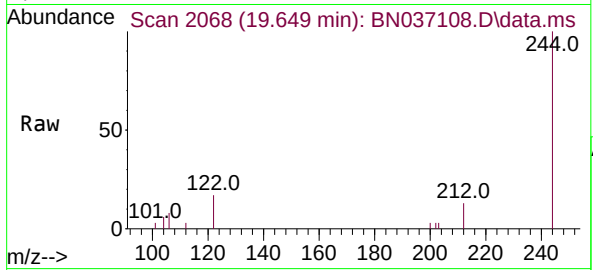
#31  
Terphenyl-d14  
Concen: 0.420 ng  
RT: 19.649 min Scan# 2068  
Delta R.T. -0.009 min  
Lab File: BN037108.D  
Acq: 28 May 2025 14:17

Instrument :

BNA\_N

ClientSampleId :

PB168155BS

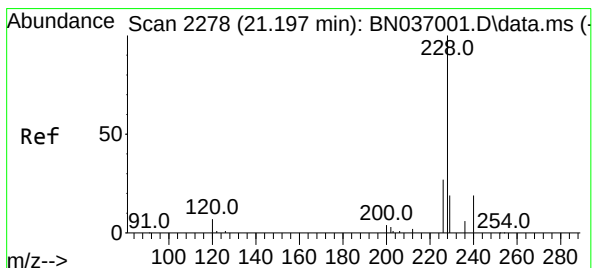
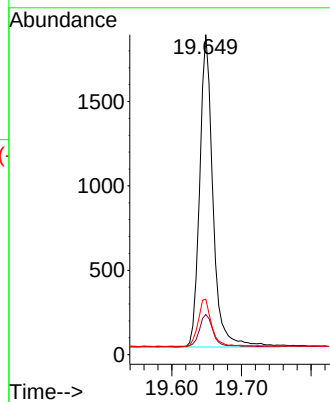
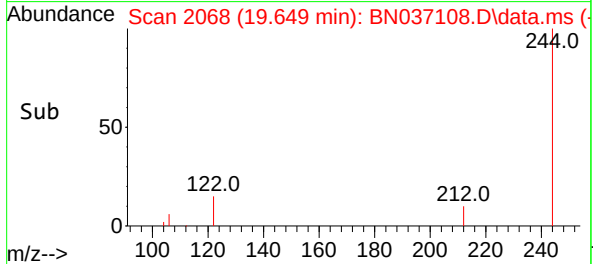


Tgt Ion:244 Resp: 246  
Ion Ratio Lower Upper  
244 100  
212 12.6 9.7 14.5  
122 17.4 13.4 20.0

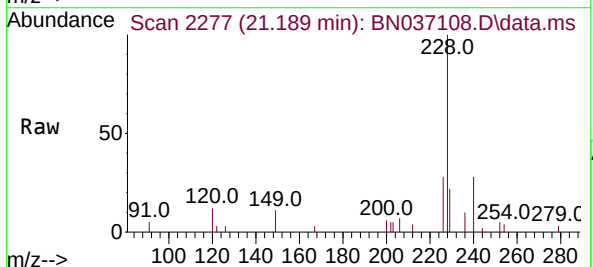
Manual Integrations

APPROVED

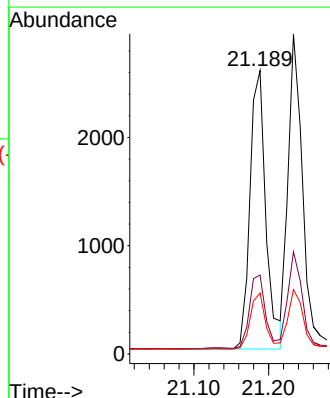
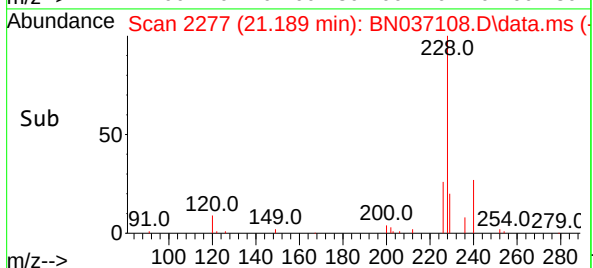
Reviewed By :Rahul Chavli 05/29/2025  
Supervised By :Jagrut Upadhyay 05/29/2025

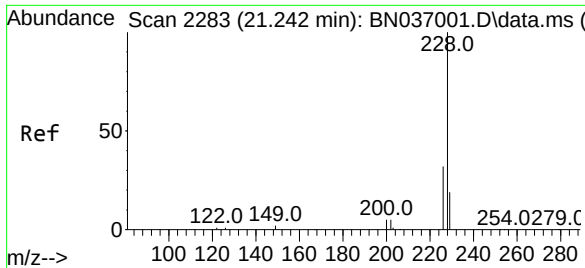


#32  
Benzo(a)anthracene  
Concen: 0.370 ng  
RT: 21.189 min Scan# 2277  
Delta R.T. -0.009 min  
Lab File: BN037108.D  
Acq: 28 May 2025 14:17



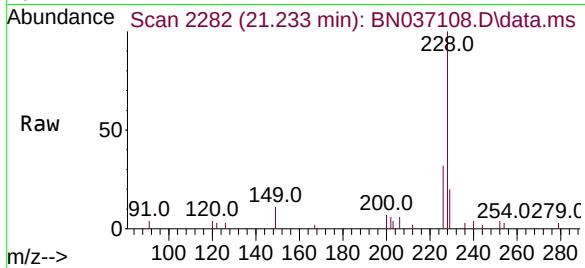
Tgt Ion:228 Resp: 3830  
Ion Ratio Lower Upper  
228 100  
226 27.8 22.2 33.4  
229 21.5 16.0 24.0





#33  
Chrysene  
Concen: 0.366 ng  
RT: 21.233 min Scan# 21233  
Delta R.T. -0.009 min  
Lab File: BN037108.D  
Acq: 28 May 2025 14:17

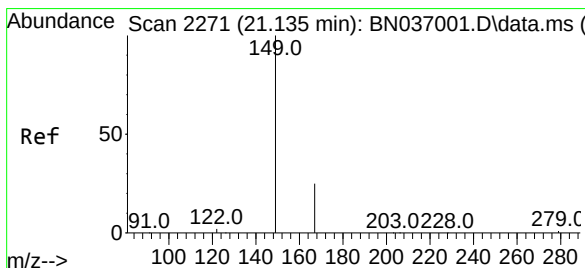
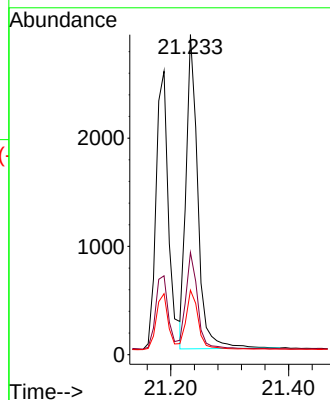
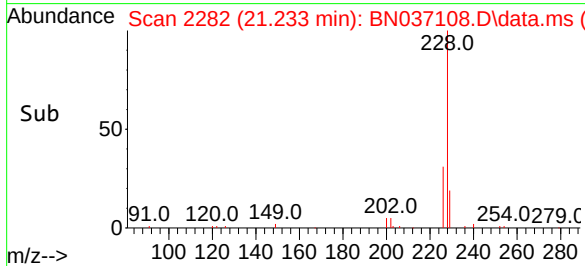
Instrument :  
BNA\_N  
ClientSampleId :  
PB168155BS



Tgt Ion: 228 Resp: 400  
Ion Ratio Lower Upper  
228 100  
226 32.0 26.3 39.5  
229 20.1 16.2 24.2

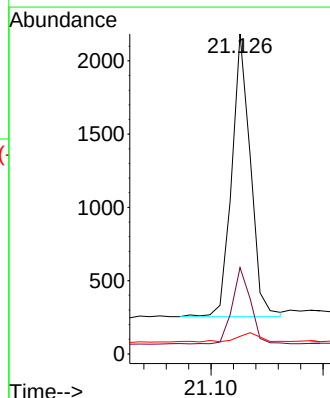
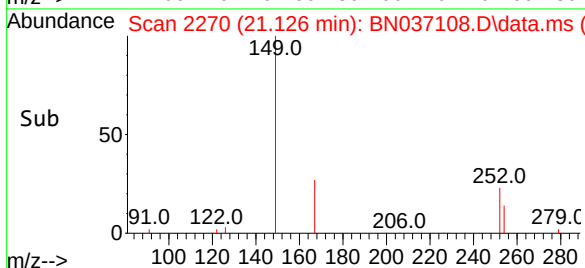
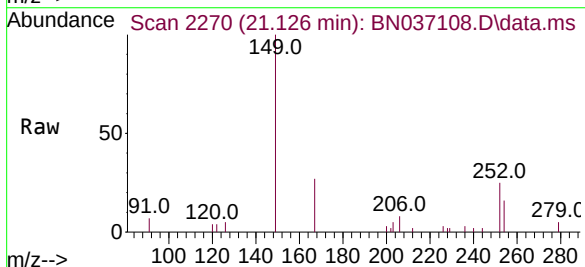
Manual Integrations  
**APPROVED**

Reviewed By :Rahul Chavli 05/29/2025  
Supervised By :Jagrut Upadhyay 05/29/2025

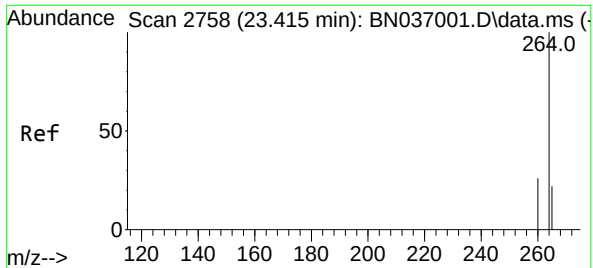


#34  
Bis(2-ethylhexyl)phthalate  
Concen: 0.352 ng  
RT: 21.126 min Scan# 2270  
Delta R.T. -0.009 min  
Lab File: BN037108.D  
Acq: 28 May 2025 14:17

Tgt Ion: 149 Resp: 2238  
Ion Ratio Lower Upper  
149 100  
167 26.5 20.6 30.8  
279 3.3 2.6 3.8

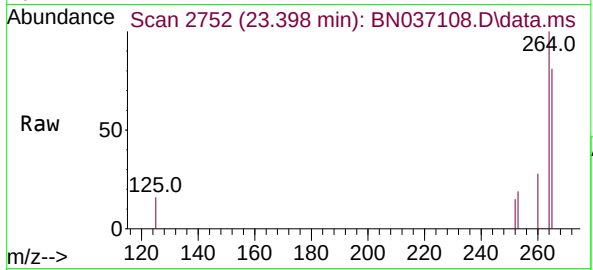






#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.398 min Scan# 21  
Delta R.T. -0.017 min  
Lab File: BN037108.D  
Acq: 28 May 2025 14:17

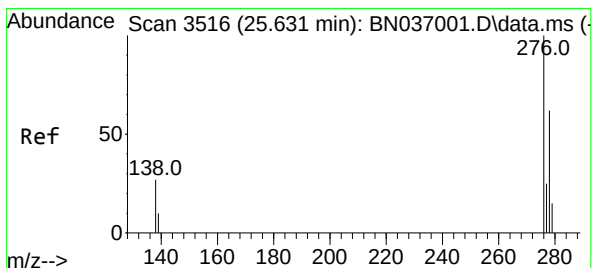
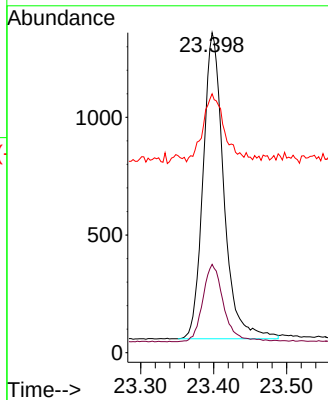
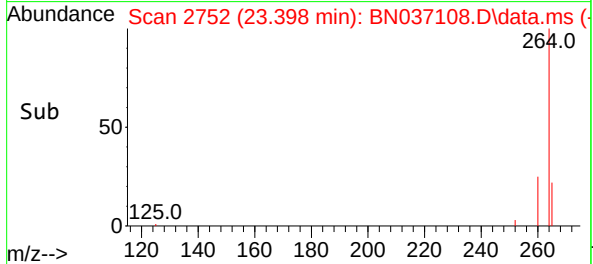
Instrument :  
BNA\_N  
ClientSampleId :  
PB168155BS



Tgt Ion:264 Resp: 256  
Ion Ratio Lower Upper  
264 100  
260 27.6 21.9 32.9  
265 80.9 51.6 77.4

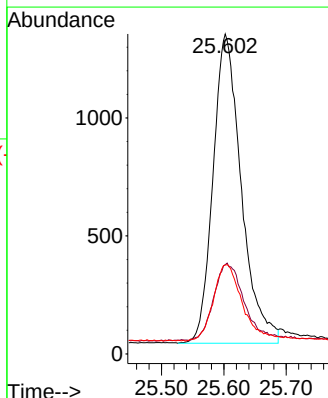
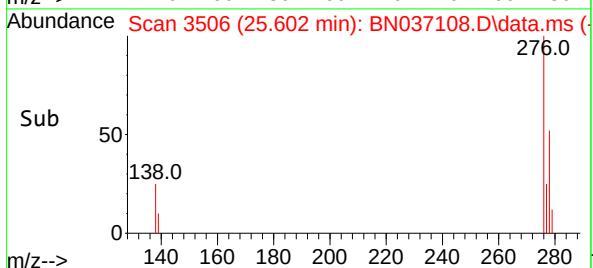
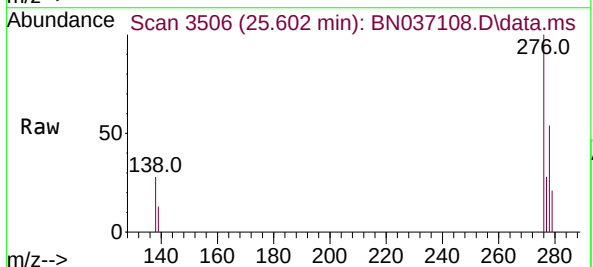
Manual Integrations  
**APPROVED**

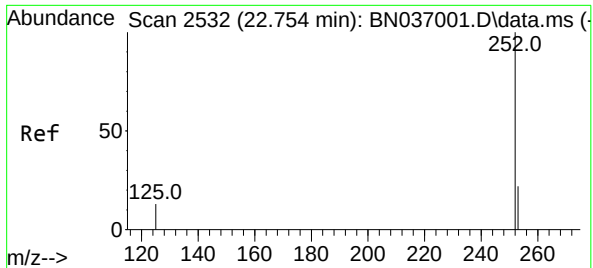
Reviewed By :Rahul Chavli 05/29/2025  
Supervised By :Jagrut Upadhyay 05/29/2025



#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.395 ng  
RT: 25.602 min Scan# 3506  
Delta R.T. -0.029 min  
Lab File: BN037108.D  
Acq: 28 May 2025 14:17

Tgt Ion:276 Resp: 4131  
Ion Ratio Lower Upper  
276 100  
138 27.1 22.7 34.1  
277 25.8 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 0.344 ng

RT: 22.740 min Scan# 2527

Delta R.T. -0.015 min

Lab File: BN037108.D

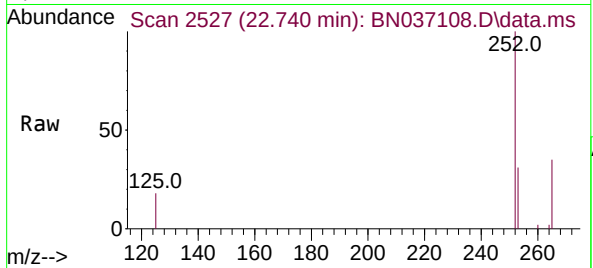
Acq: 28 May 2025 14:17

Instrument :

BNA\_N

ClientSampleId :

PB168155BS



Tgt Ion:252 Resp: 3658

Ion Ratio Lower Upper

252 100

253 30.7 21.8 32.6

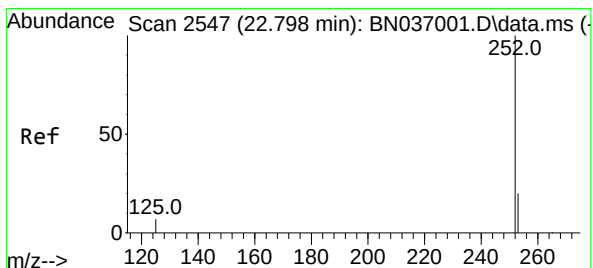
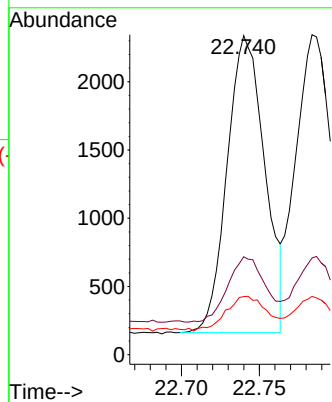
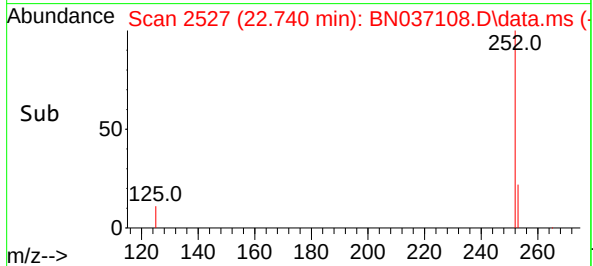
125 18.2 14.6 21.8

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 05/29/2025

Supervised By :Jagrut Upadhyay 05/29/2025



#38

Benzo(k)fluoranthene

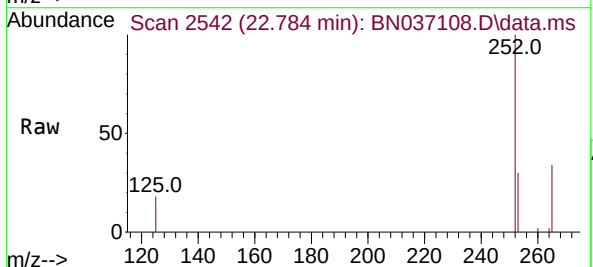
Concen: 0.361 ng

RT: 22.784 min Scan# 2542

Delta R.T. -0.015 min

Lab File: BN037108.D

Acq: 28 May 2025 14:17



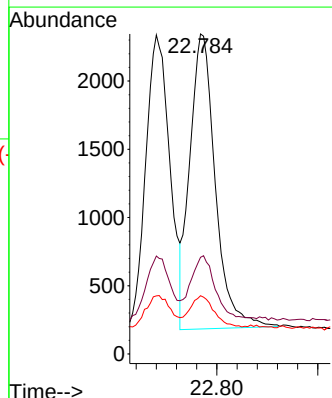
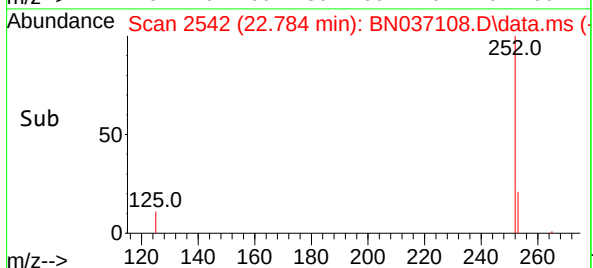
Tgt Ion:252 Resp: 3793

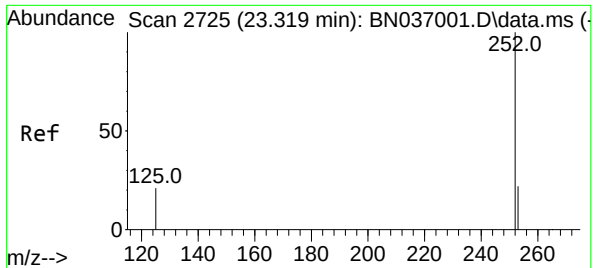
Ion Ratio Lower Upper

252 100

253 30.2 21.4 32.2

125 18.2 13.0 19.4





#39

Benzo(a)pyrene

Concen: 0.382 ng

RT: 23.304 min Scan# 21

Delta R.T. -0.015 min

Lab File: BN037108.D

Acq: 28 May 2025 14:17

Instrument :

BNA\_N

ClientSampleId :

PB168155BS

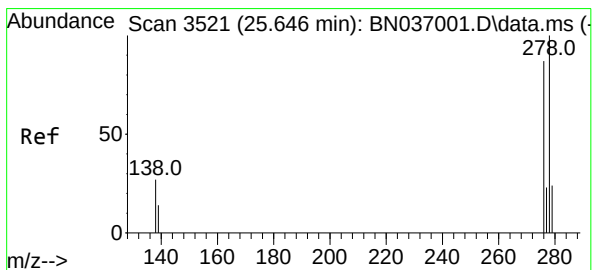
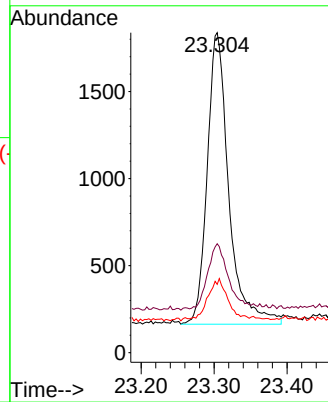
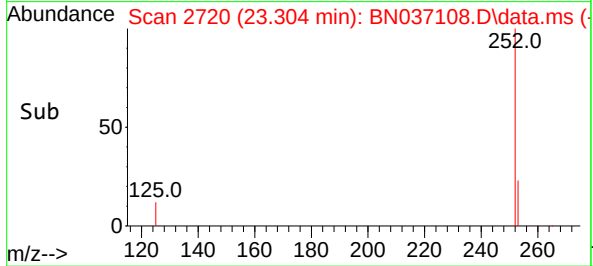
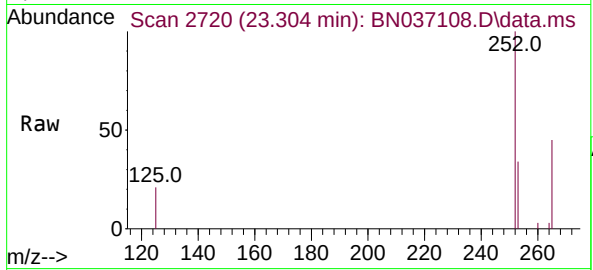
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 252   | Resp: | 344  |
| Ion Ratio | Lower | Upper |      |
| 252       | 100   |       |      |
| 253       | 34.1  | 23.8  | 35.6 |
| 125       | 21.4  | 21.8  | 32.6 |

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 05/29/2025

Supervised By :Jagrut Upadhyay 05/29/2025



#40

Dibenzo(a,h)anthracene

Concen: 0.388 ng

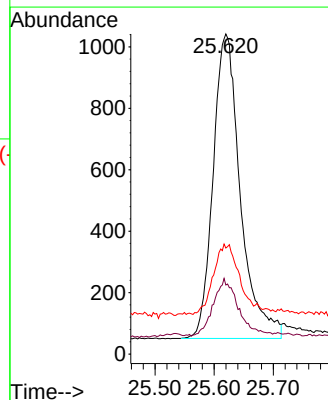
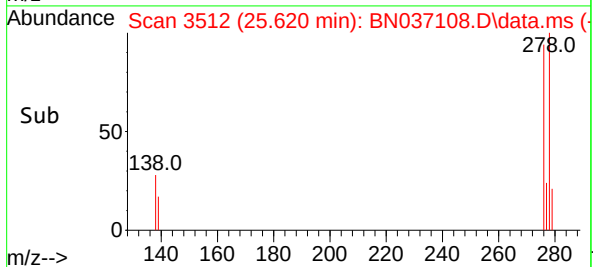
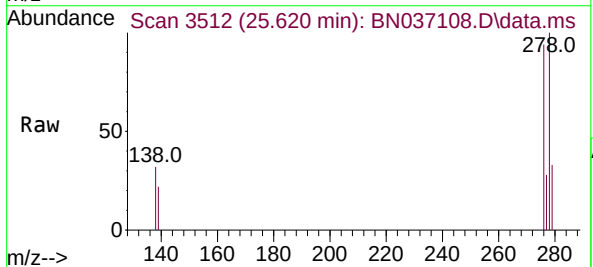
RT: 25.620 min Scan# 3512

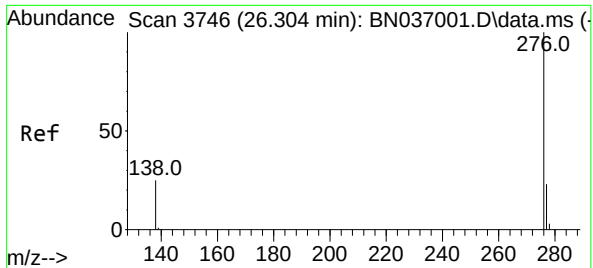
Delta R.T. -0.026 min

Lab File: BN037108.D

Acq: 28 May 2025 14:17

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 278   | Resp: | 3166 |
| Ion Ratio | Lower | Upper |      |
| 278       | 100   |       |      |
| 139       | 21.6  | 17.4  | 26.0 |
| 279       | 33.1  | 24.6  | 37.0 |





#41

Benzo(g,h,i)perylene

Concen: 0.418 ng

RT: 26.275 min Scan# 31

Delta R.T. -0.029 min

Lab File: BN037108.D

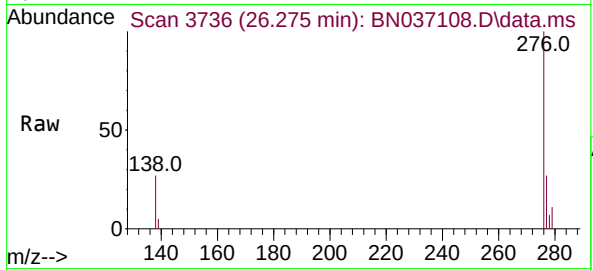
Acq: 28 May 2025 14:17

Instrument :

BNA\_N

ClientSampleId :

PB168155BS



Tgt Ion:276 Resp: 370

Ion Ratio Lower Upper

276 100

277 27.3 20.2 30.4

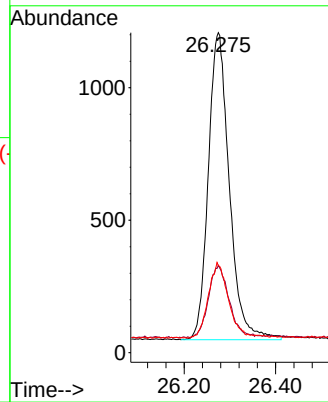
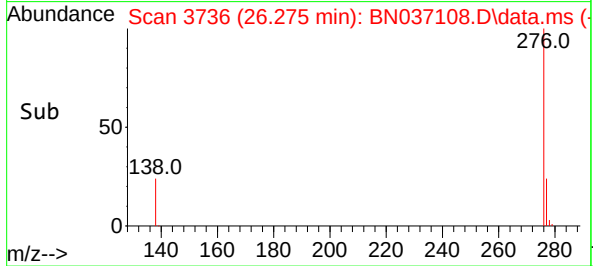
138 27.2 22.0 33.0

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 05/29/2025

Supervised By :Jagrut Upadhyay 05/29/2025



## Report of Analysis

|                    |                               |                 |                |
|--------------------|-------------------------------|-----------------|----------------|
| Client:            | Tetra Tech NUS, Inc.          | Date Collected: |                |
| Project:           | NWIRP Bethpage 112G08005-WE13 | Date Received:  |                |
| Client Sample ID:  | PB168155BSD                   | SDG No.:        | Q2118          |
| Lab Sample ID:     | PB168155BSD                   | 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 |
| BN037109.D        | 1         | 05/23/25 11:50 | 05/28/25 14:53 | PB168155      |

| 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 | 0.39  |           | 30 - 150 |      | 97%        | SPK: 0.4 |
| 93951-69-0                | Fluoranthene-d10        | 0.30  |           | 30 - 150 |      | 76%        | SPK: 0.4 |
| 4165-60-0                 | Nitrobenzene-d5         | 0.36  |           | 55 - 111 |      | 89%        | SPK: 0.4 |
| 321-60-8                  | 2-Fluorobiphenyl        | 0.37  |           | 53 - 106 |      | 93%        | SPK: 0.4 |
| 1718-51-0                 | Terphenyl-d14           | 0.42  |           | 58 - 132 |      | 106%       | SPK: 0.4 |
| <b>INTERNAL STANDARDS</b> |                         |       |           |          |      |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4  | 1890  | 7.611     |          |      |            |          |
| 1146-65-2                 | Naphthalene-d8          | 4640  | 10.394    |          |      |            |          |
| 15067-26-2                | Acenaphthene-d10        | 2240  | 14.256    |          |      |            |          |
| 1517-22-2                 | Phenanthrene-d10        | 3940  | 17.009    |          |      |            |          |
| 1719-03-5                 | Chrysene-d12            | 2450  | 21.198    |          |      |            |          |
| 1520-96-3                 | Perylene-d12            | 2400  | 23.398    |          |      |            |          |

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\BN052825\  
 Data File : BN037109.D  
 Acq On : 28 May 2025 14:53  
 Operator : RC/JU  
 Sample : PB168155BSD  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 PB168155BSD

Manual Integrations  
 APPROVED

Reviewed By :Rahul Chavli 05/29/2025  
 Supervised By :Jagrut Upadhyay 05/29/2025

Quant Time: May 28 15:39:56 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN051425.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 14 11:26:32 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.611  | 152  | 1893     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.394 | 136  | 4639     | 0.400 | ng    | -0.01    |
| 13) Acenaphthene-d10          | 14.256 | 164  | 2241     | 0.400 | ng    | -0.01    |
| 19) Phenanthrene-d10          | 17.009 | 188  | 3936     | 0.400 | ng    | # 0.00   |
| 29) Chrysene-d12              | 21.198 | 240  | 2452     | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.398 | 264  | 2400     | 0.400 | ng    | #-0.02   |
|                               |        |      |          |       |       |          |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.206  | 112  | 1694     | 0.342 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.788  | 99   | 1988     | 0.320 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.760  | 82   | 1796     | 0.356 | ng    | -0.01    |
| 11) 2-Methylnaphthalene-d10   | 11.986 | 152  | 2537m    | 0.389 | ng    | -0.01    |
| 14) 2,4,6-Tribromophenol      | 15.755 | 330  | 299      | 0.304 | ng    | -0.01    |
| 15) 2-Fluorobiphenyl          | 12.878 | 172  | 3799     | 0.370 | ng    | -0.01    |
| 27) Fluoranthene-d10          | 19.040 | 212  | 3284     | 0.304 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.649 | 244  | 2221     | 0.423 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| Target Compounds              |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.133  | 88   | 707      | 0.304 | ng    | # 21     |
| 3) n-Nitrosodimethylamine     | 3.444  | 42   | 1843     | 0.369 | ng    | # 88     |
| 6) bis(2-Chloroethyl)ether    | 7.040  | 93   | 1938     | 0.339 | ng    | 99       |
| 9) Naphthalene                | 10.436 | 128  | 4818     | 0.351 | ng    | 98       |
| 10) Hexachlorobutadiene       | 10.725 | 225  | 1123     | 0.390 | ng    | # 99     |
| 12) 2-Methylnaphthalene       | 12.062 | 142  | 2722     | 0.309 | ng    | 98       |
| 16) Acenaphthylene            | 13.967 | 152  | 4410     | 0.404 | ng    | 100      |
| 17) Acenaphthene              | 14.320 | 154  | 2636     | 0.370 | ng    | 99       |
| 18) Fluorene                  | 15.314 | 166  | 3413     | 0.365 | ng    | 99       |
| 20) 4,6-Dinitro-2-methylph... | 15.400 | 198  | 298      | 0.393 | ng    | 92       |
| 21) 4-Bromophenyl-phenylether | 16.202 | 248  | 980      | 0.394 | ng    | # 89     |
| 22) Hexachlorobenzene         | 16.314 | 284  | 1142     | 0.429 | ng    | 99       |
| 23) Atrazine                  | 16.475 | 200  | 818      | 0.377 | ng    | # 95     |
| 24) Pentachlorophenol         | 16.661 | 266  | 843      | 0.575 | ng    | 99       |
| 25) Phenanthrene              | 17.046 | 178  | 4787     | 0.372 | ng    | 99       |
| 26) Anthracene                | 17.133 | 178  | 4405     | 0.376 | ng    | 100      |
| 28) Fluoranthene              | 19.073 | 202  | 4524     | 0.294 | ng    | 99       |
| 30) Pyrene                    | 19.435 | 202  | 4511     | 0.430 | ng    | 100      |
| 32) Benzo(a)anthracene        | 21.180 | 228  | 3397     | 0.368 | ng    | 97       |
| 33) Chrysene                  | 21.233 | 228  | 3886     | 0.398 | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 21.126 | 149  | 1997     | 0.351 | ng    | # 96     |
| 36) Indeno(1,2,3-cd)pyrene    | 25.608 | 276  | 4135     | 0.422 | ng    | 97       |
| 37) Benzo(b)fluoranthene      | 22.740 | 252  | 3476     | 0.349 | ng    | 97       |
| 38) Benzo(k)fluoranthene      | 22.784 | 252  | 3603     | 0.366 | ng    | 93       |
| 39) Benzo(a)pyrene            | 23.304 | 252  | 3246     | 0.384 | ng    | # 91     |
| 40) Dibenzo(a,h)anthracene    | 25.623 | 278  | 3192     | 0.418 | ng    | 96       |
| 41) Benzo(g,h,i)perylene      | 26.275 | 276  | 3585     | 0.432 | ng    | 97       |
| -----                         |        |      |          |       |       |          |

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

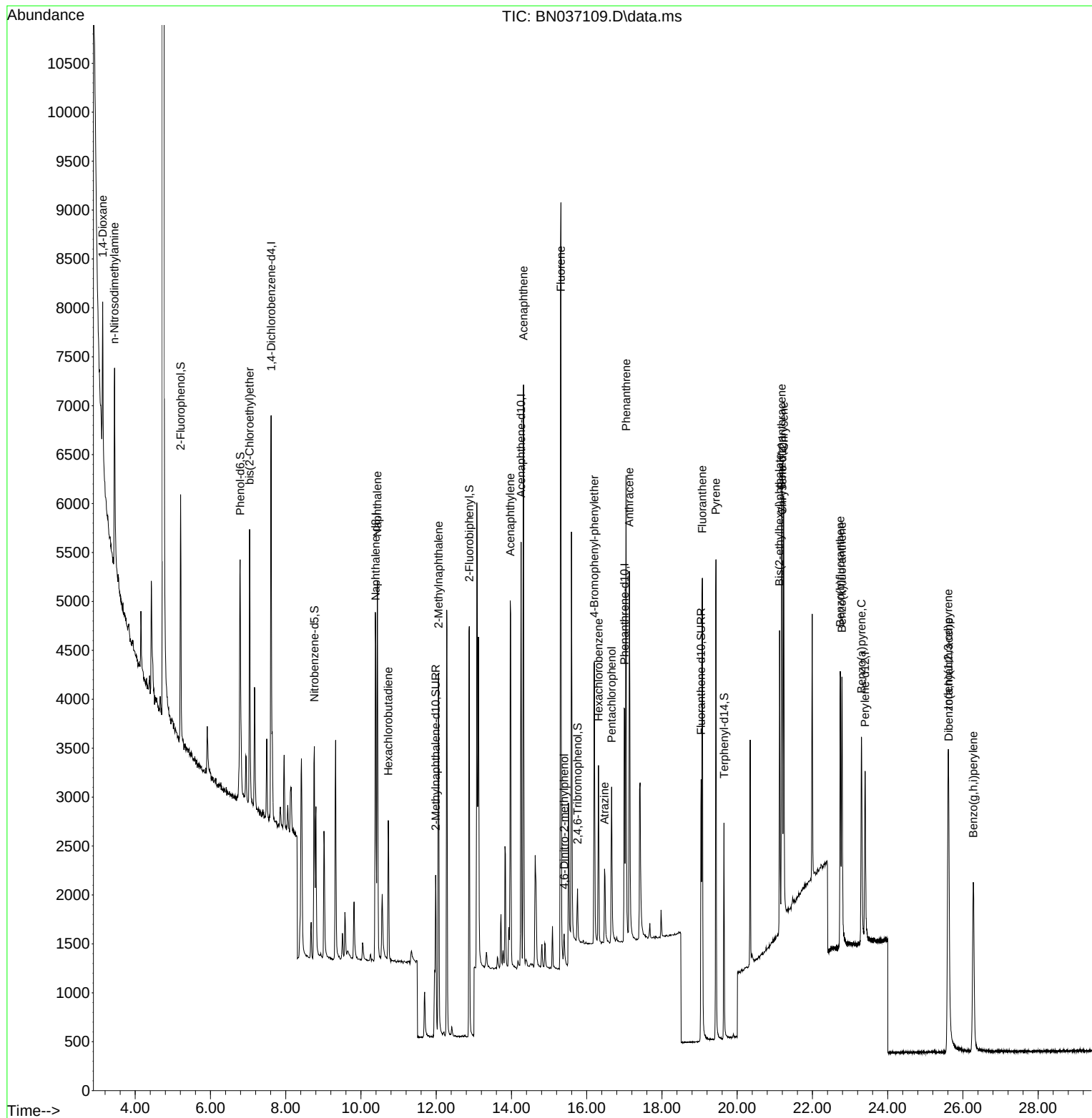
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN052825\  
Data File : BN037109.D  
Acq On : 28 May 2025 14:53  
Operator : RC/JU  
Sample : PB168155BSD  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

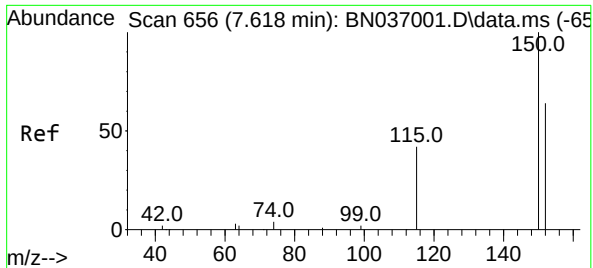
Instrument :  
BNA\_N  
ClientSampleId :  
PB168155BSD

Manual Integrations  
**APPROVED**

Reviewed By :Rahul Chavli 05/29/2025  
Supervised By :Jagrut Upadhyay 05/29/2025

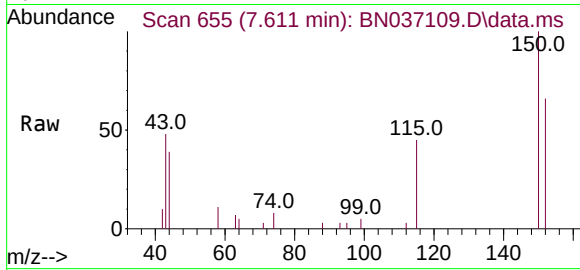
Quant Time: May 28 15:39:56 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN051425.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed May 14 11:26:32 2025  
Response via : Initial Calibration





#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.611 min Scan# 61  
Delta R.T. -0.007 min  
Lab File: BN037109.D  
Acq: 28 May 2025 14:53

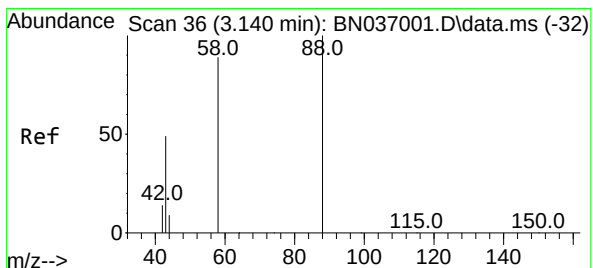
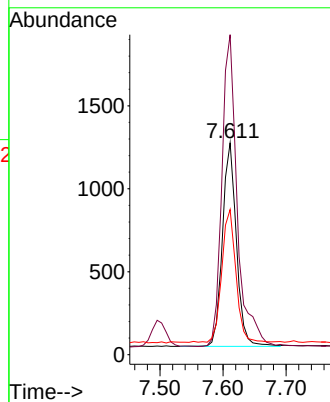
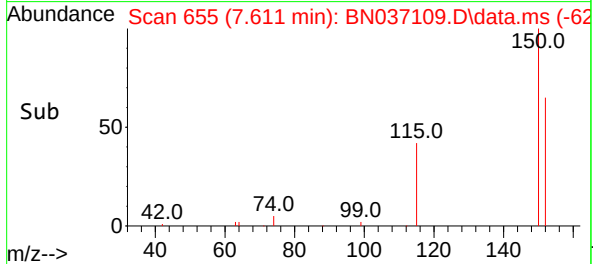
Instrument :  
BNA\_N  
ClientSampleId :  
PB168155BSD



Tgt Ion: 152 Resp: 189  
Ion Ratio Lower Upper  
152 100  
150 151.1 123.9 185.9  
115 68.5 55.8 83.8

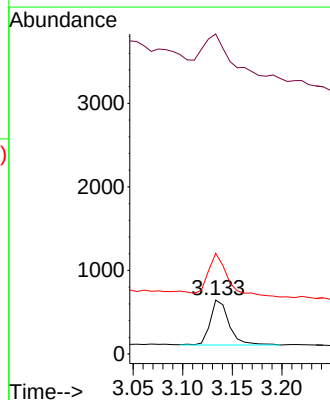
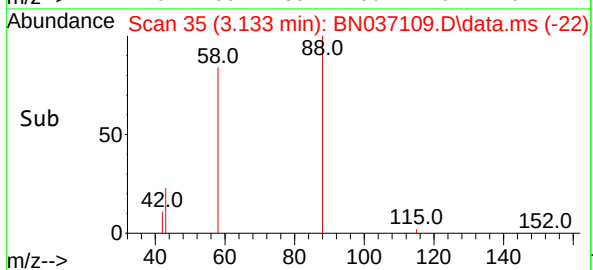
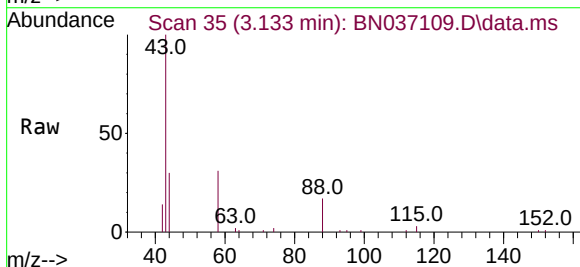
Manual Integrations  
APPROVED

Reviewed By :Rahul Chavli 05/29/2025  
Supervised By :Jagrut Upadhyay 05/29/2025



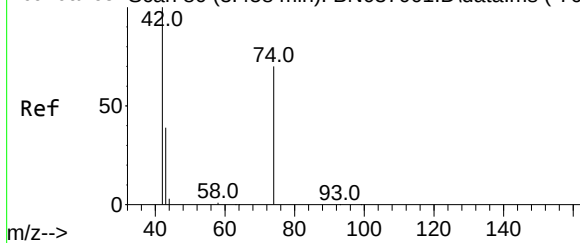
#2  
1,4-Dioxane  
Concen: 0.304 ng  
RT: 3.133 min Scan# 35  
Delta R.T. -0.007 min  
Lab File: BN037109.D  
Acq: 28 May 2025 14:53

Tgt Ion: 88 Resp: 707  
Ion Ratio Lower Upper  
88 100  
43 172.0 37.4 56.0#  
58 104.0 68.8 103.2#





Abundance Scan 80 (3.458 min): BN037001.D\data.ms (-76)



#3

n-Nitrosodimethylamine

Concen: 0.369 ng

RT: 3.444 min Scan# 70

Delta R.T. -0.014 min

Lab File: BN037109.D

Acq: 28 May 2025 14:53

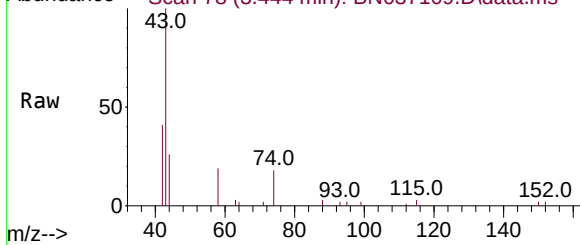
Instrument :

BNA\_N

ClientSampleId :

PB168155BSD

Abundance Scan 78 (3.444 min): BN037109.D\data.ms



Tgt Ion: 42 Resp: 184

Ion Ratio Lower Upper

42 100

74 66.2 59.8 89.6

44 6.2 11.9 17.9

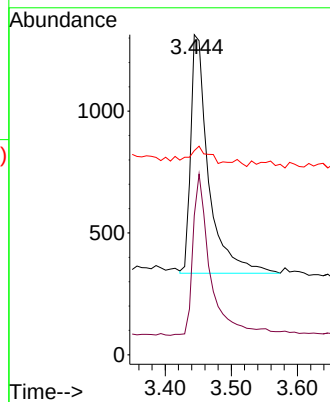
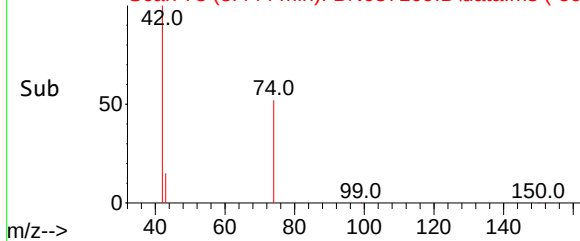
Manual Integrations

APPROVED

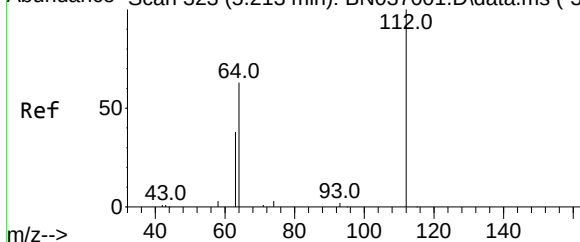
Reviewed By :Rahul Chavli 05/29/2025

Supervised By :Jagrut Upadhyay 05/29/2025

Abundance Scan 78 (3.444 min): BN037109.D\data.ms (-59)



Abundance Scan 323 (5.213 min): BN037001.D\data.ms (-31)



#4

2-Fluorophenol

Concen: 0.342 ng

RT: 5.206 min Scan# 322

Delta R.T. -0.007 min

Lab File: BN037109.D

Acq: 28 May 2025 14:53

Tgt Ion:112 Resp: 1694

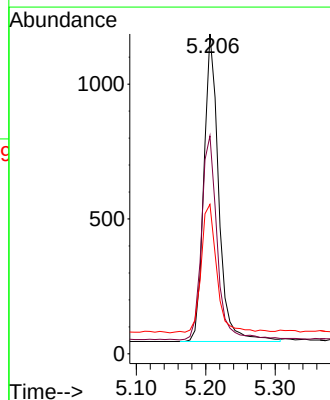
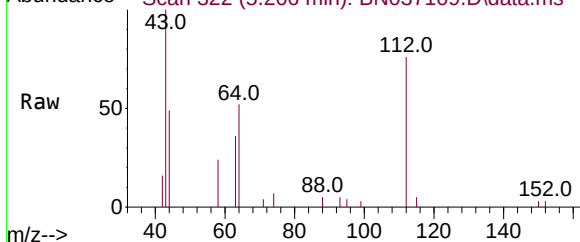
Ion Ratio Lower Upper

112 100

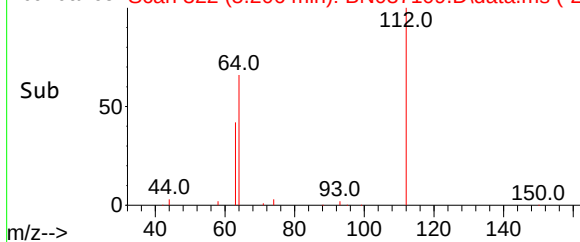
64 70.7 55.7 83.5

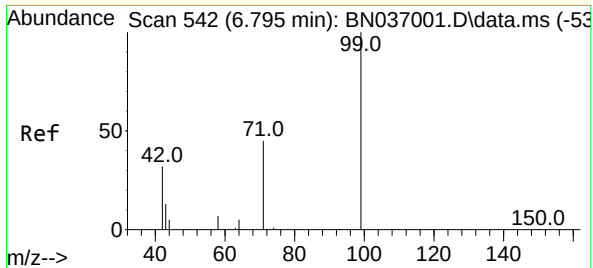
63 44.6 34.6 51.8

Abundance Scan 322 (5.206 min): BN037109.D\data.ms



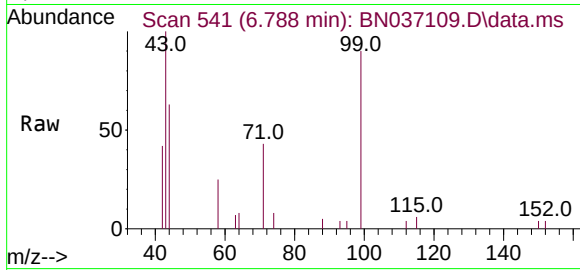
Abundance Scan 322 (5.206 min): BN037109.D\data.ms (-29)





#5  
Phenol-d6  
Concen: 0.320 ng  
RT: 6.788 min Scan# 541  
Delta R.T. -0.007 min  
Lab File: BN037109.D  
Acq: 28 May 2025 14:53

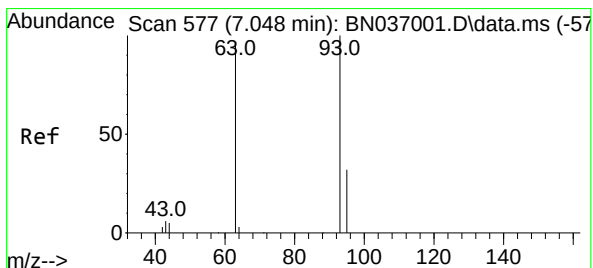
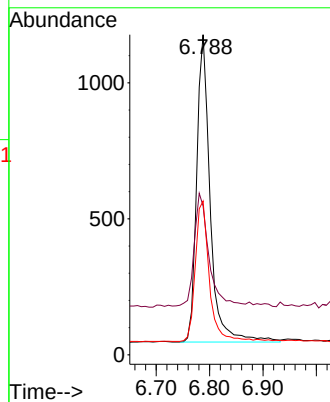
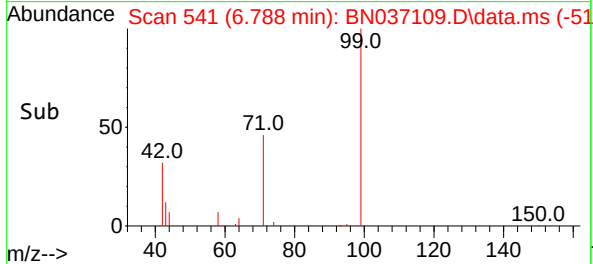
Instrument :  
BNA\_N  
ClientSampleId :  
PB168155BSD



Tgt Ion: 99 Resp: 1988  
Ion Ratio Lower Upper  
99 100  
42 39.5 29.3 43.9  
71 47.8 35.7 53.5

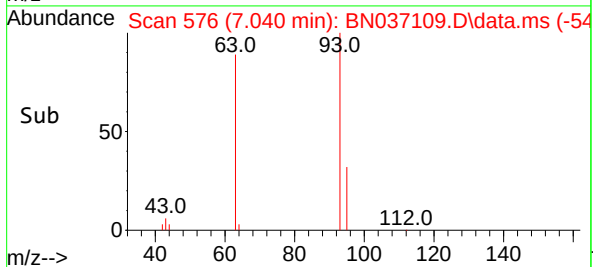
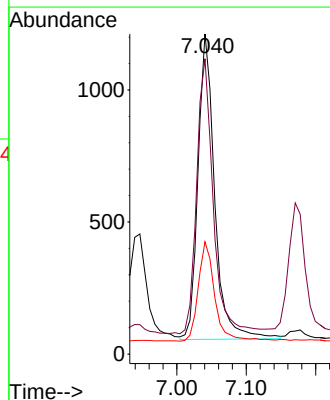
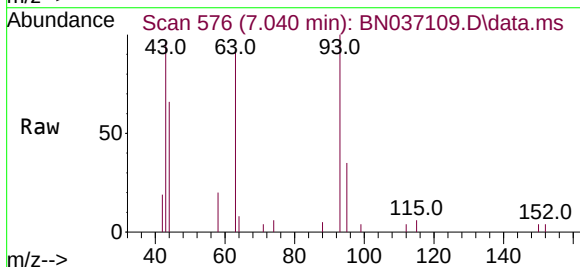
Manual Integrations  
APPROVED

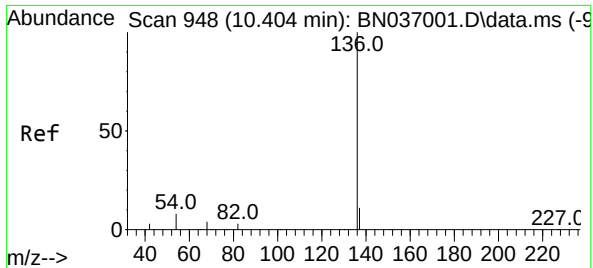
Reviewed By :Rahul Chavli 05/29/2025  
Supervised By :Jagrut Upadhyay 05/29/2025



#6  
bis(2-Chloroethyl)ether  
Concen: 0.339 ng  
RT: 7.040 min Scan# 576  
Delta R.T. -0.007 min  
Lab File: BN037109.D  
Acq: 28 May 2025 14:53

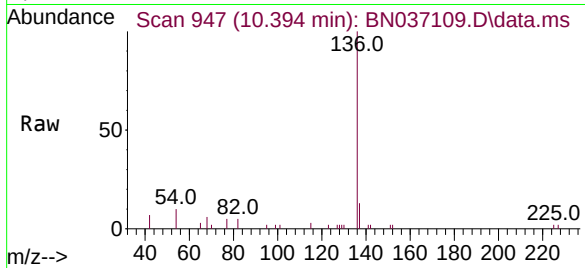
Tgt Ion: 93 Resp: 1938  
Ion Ratio Lower Upper  
93 100  
63 88.8 70.1 105.1  
95 32.1 26.2 39.2





#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.394 min Scan# 948  
Delta R.T. -0.011 min  
Lab File: BN037109.D  
Acq: 28 May 2025 14:53

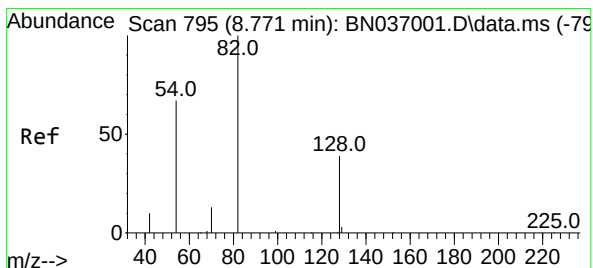
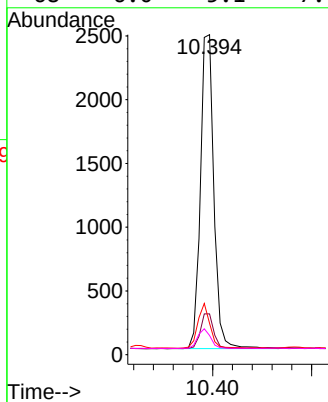
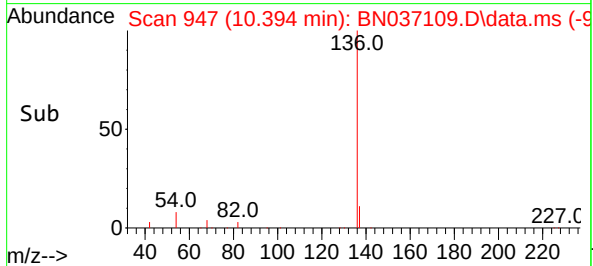
Instrument :  
BNA\_N  
ClientSampleId :  
PB168155BSD



Tgt Ion:136 Resp: 4639  
Ion Ratio Lower Upper  
136 100  
137 12.7 10.4 15.6  
54 9.8 8.5 12.7  
68 6.0 5.1 7.7

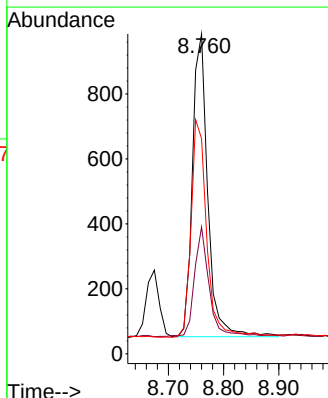
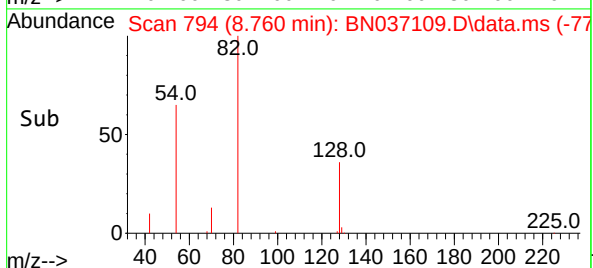
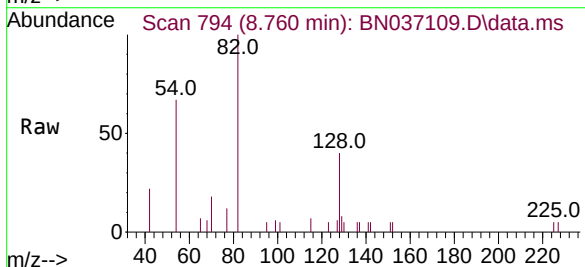
Manual Integrations  
APPROVED

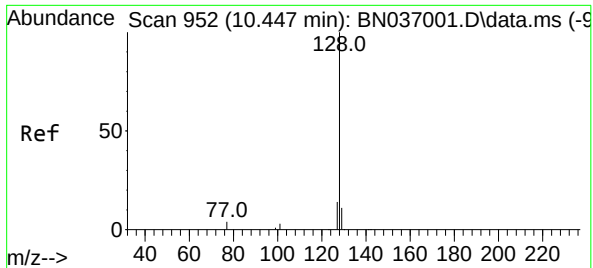
Reviewed By :Rahul Chavli 05/29/2025  
Supervised By :Jagrut Upadhyay 05/29/2025



#8  
Nitrobenzene-d5  
Concen: 0.356 ng  
RT: 8.760 min Scan# 794  
Delta R.T. -0.011 min  
Lab File: BN037109.D  
Acq: 28 May 2025 14:53

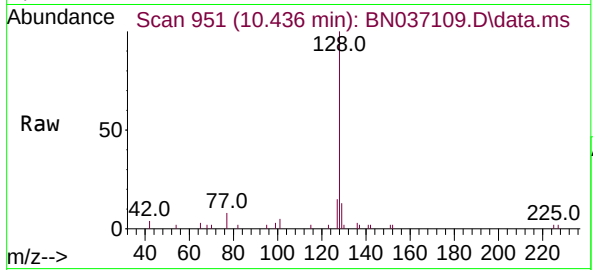
Tgt Ion: 82 Resp: 1796  
Ion Ratio Lower Upper  
82 100  
128 39.7 34.0 51.0  
54 67.3 55.0 82.4





#9  
Naphthalene  
Concen: 0.351 ng  
RT: 10.436 min Scan# 951  
Delta R.T. -0.011 min  
Lab File: BN037109.D  
Acq: 28 May 2025 14:53

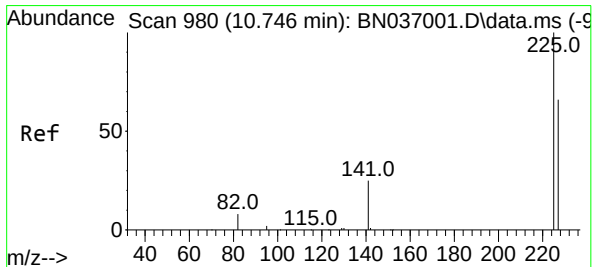
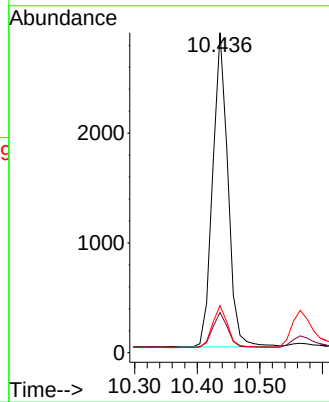
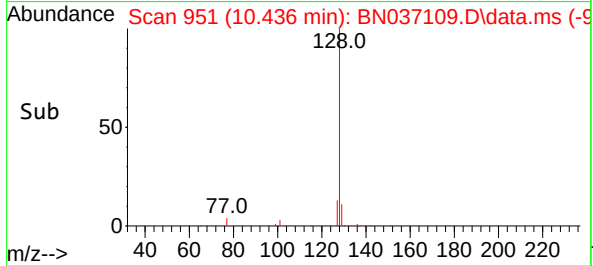
Instrument :  
BNA\_N  
ClientSampleId :  
PB168155BSD



Tgt Ion:128 Resp: 4818  
Ion Ratio Lower Upper  
128 100  
129 12.6 9.7 14.5  
127 14.7 12.4 18.6

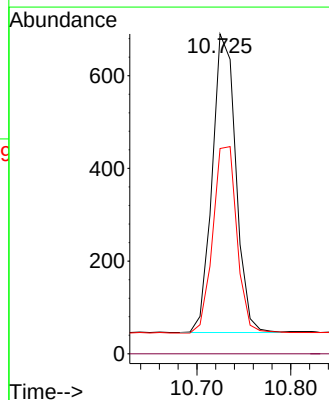
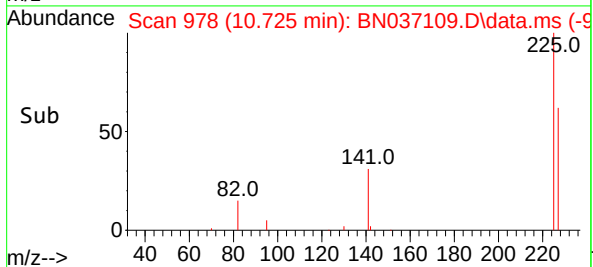
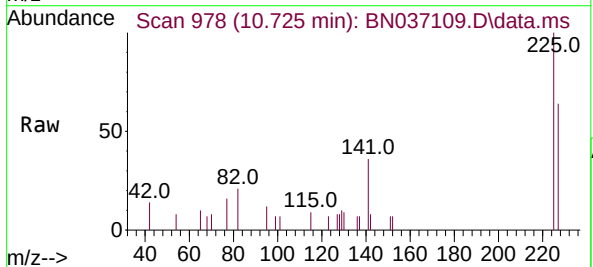
Manual Integrations  
**APPROVED**

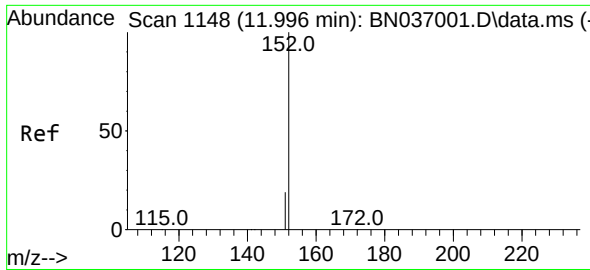
Reviewed By :Rahul Chavli 05/29/2025  
Supervised By :Jagrut Upadhyay 05/29/2025



#10  
Hexachlorobutadiene  
Concen: 0.390 ng  
RT: 10.725 min Scan# 978  
Delta R.T. -0.021 min  
Lab File: BN037109.D  
Acq: 28 May 2025 14:53

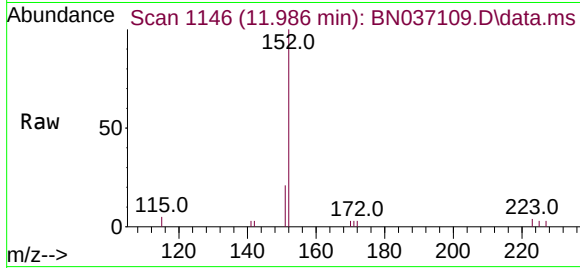
Tgt Ion:225 Resp: 1123  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 64.1 50.9 76.3





#11  
2-Methylnaphthalene-d10  
Concen: 0.389 ng m  
RT: 11.986 min Scan# 1146  
Delta R.T. -0.010 min  
Lab File: BN037109.D  
Acq: 28 May 2025 14:53

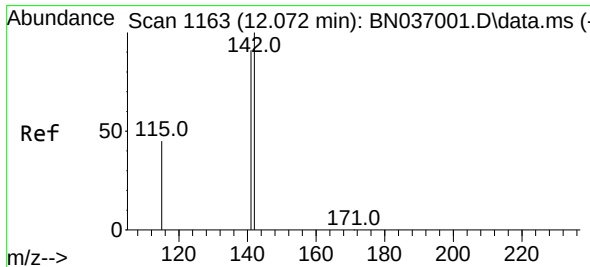
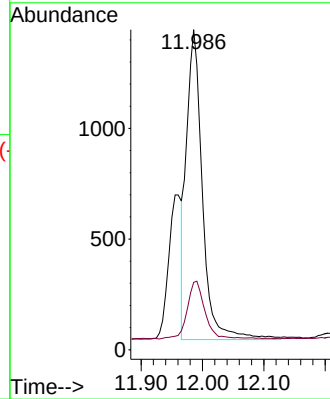
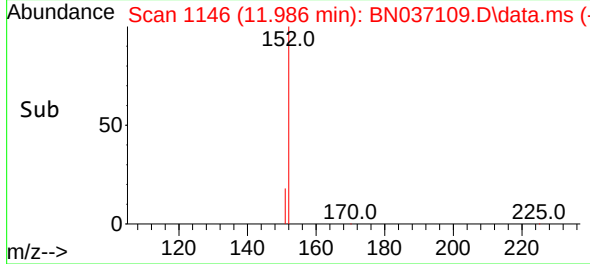
Instrument :  
BNA\_N  
ClientSampleId :  
PB168155BSD



Tgt Ion:152 Resp: 253  
Ion Ratio Lower Upper  
152 100  
151 20.5 17.5 26.3

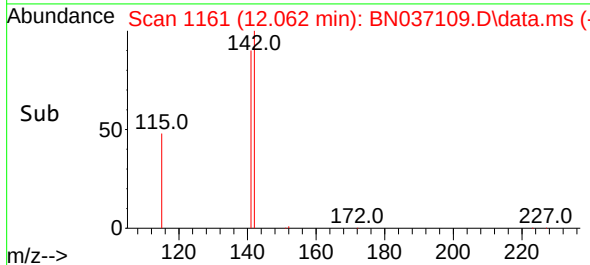
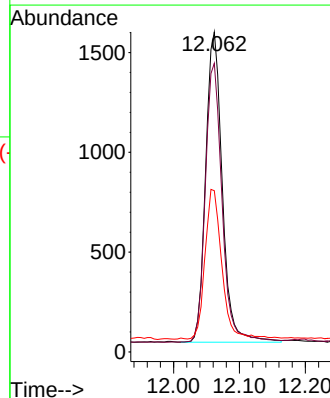
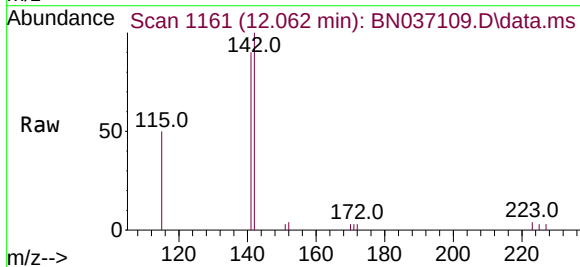
Manual Integrations  
APPROVED

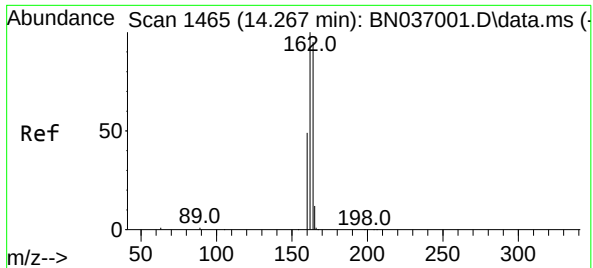
Reviewed By :Rahul Chavli 05/29/2025  
Supervised By :Jagrut Upadhyay 05/29/2025



#12  
2-Methylnaphthalene  
Concen: 0.309 ng  
RT: 12.062 min Scan# 1161  
Delta R.T. -0.010 min  
Lab File: BN037109.D  
Acq: 28 May 2025 14:53

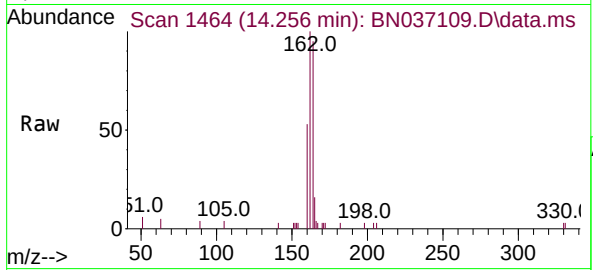
Tgt Ion:142 Resp: 2722  
Ion Ratio Lower Upper  
142 100  
141 90.2 73.3 109.9  
115 50.4 38.4 57.6





#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.256 min Scan# 1464  
Delta R.T. -0.011 min  
Lab File: BN037109.D  
Acq: 28 May 2025 14:53

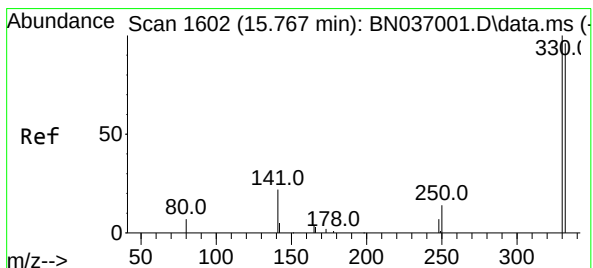
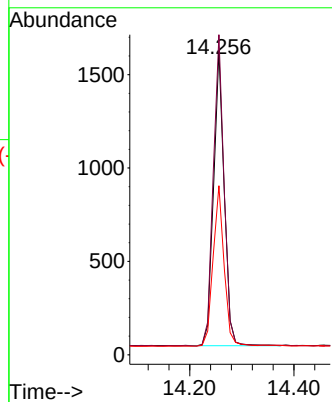
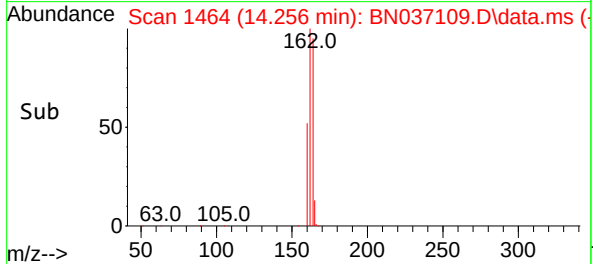
Instrument :  
BNA\_N  
ClientSampleId :  
PB168155BSD



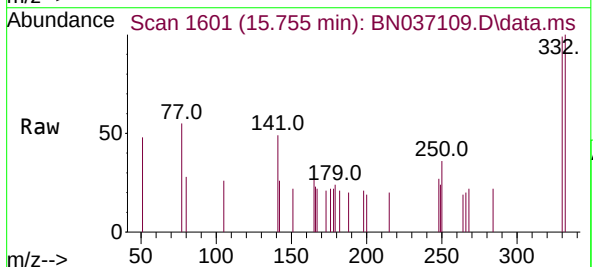
Tgt Ion:164 Resp: 224  
Ion Ratio Lower Upper  
164 100  
162 105.3 84.2 126.4  
160 55.6 42.6 63.8

Manual Integrations  
**APPROVED**

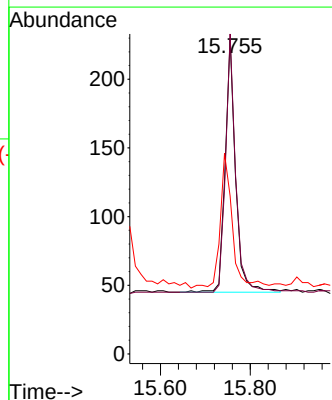
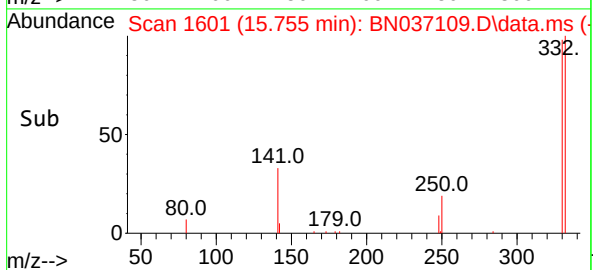
Reviewed By :Rahul Chavli 05/29/2025  
Supervised By :Jagrut Upadhyay 05/29/2025

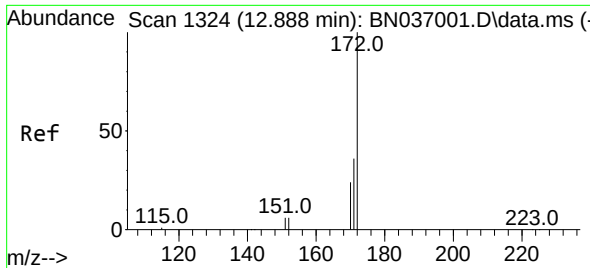


#14  
2,4,6-Tribromophenol  
Concen: 0.304 ng  
RT: 15.755 min Scan# 1601  
Delta R.T. -0.012 min  
Lab File: BN037109.D  
Acq: 28 May 2025 14:53



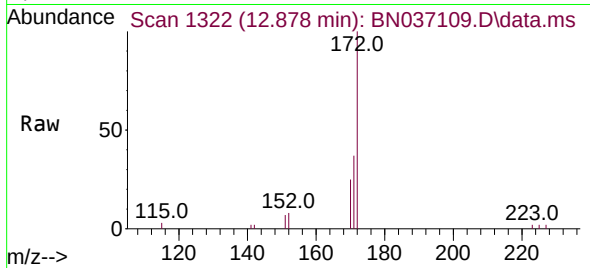
Tgt Ion:330 Resp: 299  
Ion Ratio Lower Upper  
330 100  
332 99.0 73.8 110.8  
141 55.2 43.9 65.9





#15  
2-Fluorobiphenyl  
Concen: 0.370 ng  
RT: 12.878 min Scan# 11  
Delta R.T. -0.010 min  
Lab File: BN037109.D  
Acq: 28 May 2025 14:53

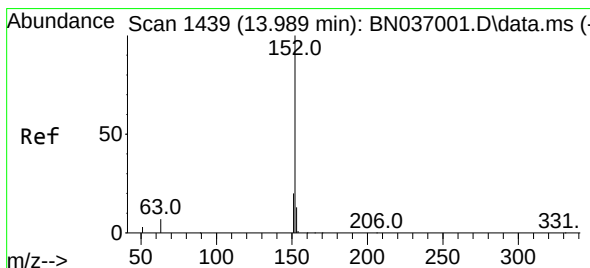
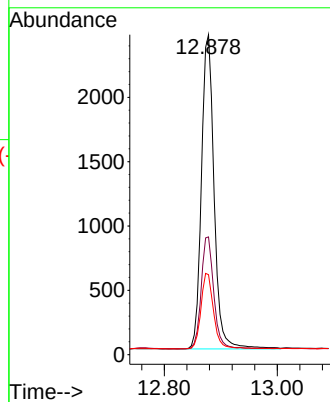
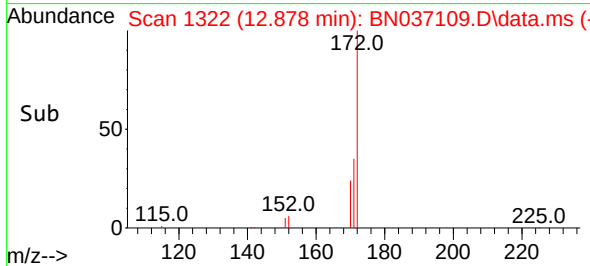
Instrument :  
BNA\_N  
ClientSampleId :  
PB168155BSD



Tgt Ion:172 Resp: 3799  
Ion Ratio Lower Upper  
172 100  
171 36.8 29.2 43.8  
170 25.0 20.5 30.7

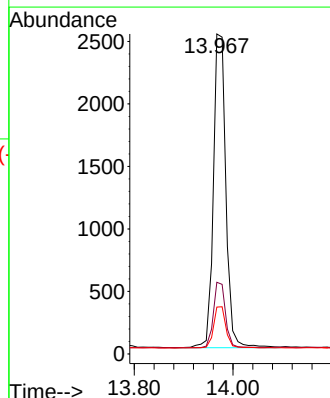
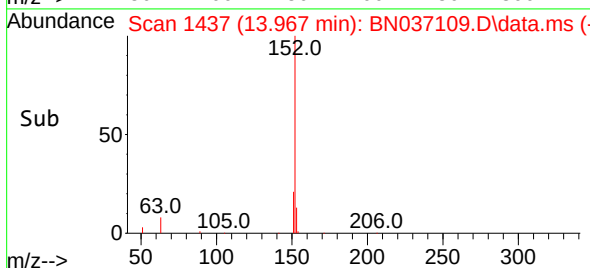
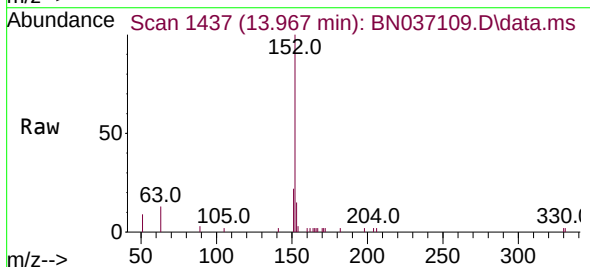
Manual Integrations  
**APPROVED**

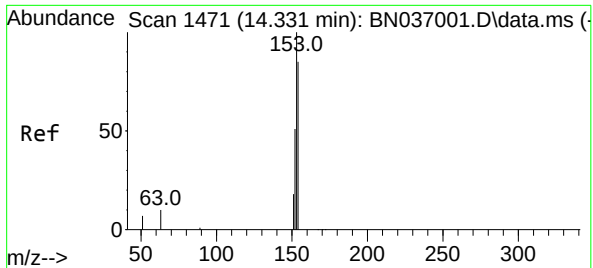
Reviewed By :Rahul Chavli 05/29/2025  
Supervised By :Jagrut Upadhyay 05/29/2025



#16  
Acenaphthylene  
Concen: 0.404 ng  
RT: 13.967 min Scan# 1437  
Delta R.T. -0.021 min  
Lab File: BN037109.D  
Acq: 28 May 2025 14:53

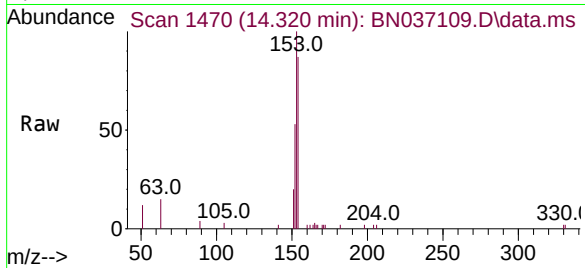
Tgt Ion:152 Resp: 4410  
Ion Ratio Lower Upper  
152 100  
151 20.2 16.1 24.1  
153 13.3 10.5 15.7





#17  
Acenaphthene  
Concen: 0.370 ng  
RT: 14.320 min Scan# 1471  
Delta R.T. -0.011 min  
Lab File: BN037109.D  
Acq: 28 May 2025 14:53

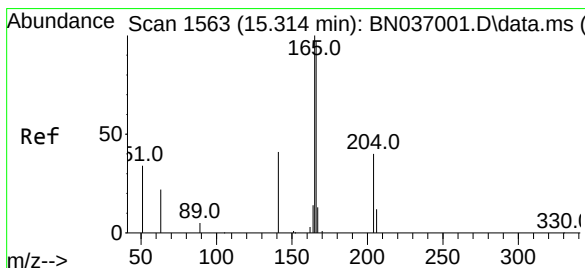
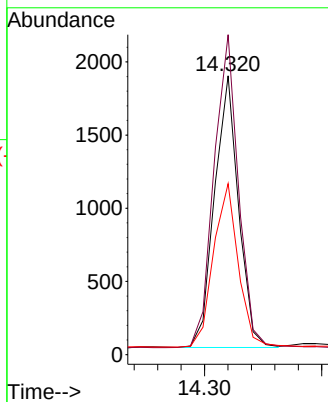
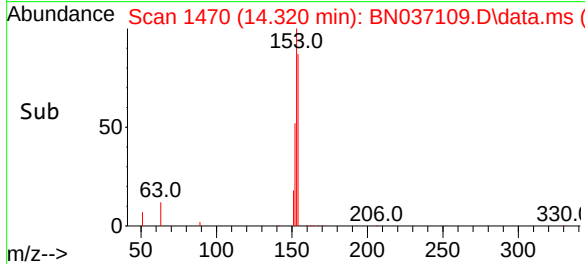
Instrument :  
BNA\_N  
ClientSampleId :  
PB168155BSD



Tgt Ion:154 Resp: 2630  
Ion Ratio Lower Upper  
154 100  
153 118.3 94.2 141.4  
152 62.8 49.4 74.0

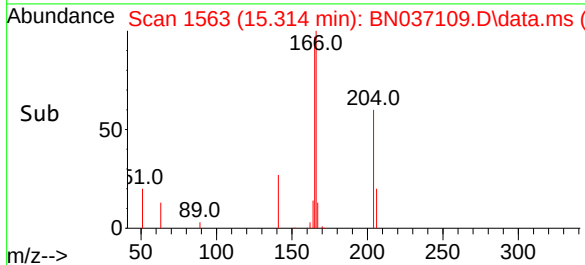
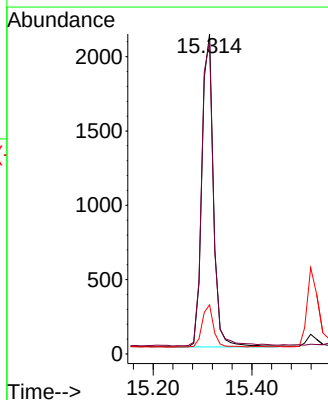
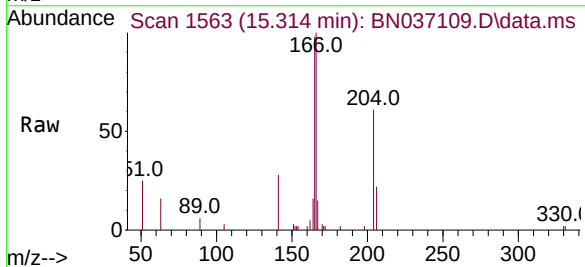
Manual Integrations  
APPROVED

Reviewed By :Rahul Chavli 05/29/2025  
Supervised By :Jagrut Upadhyay 05/29/2025

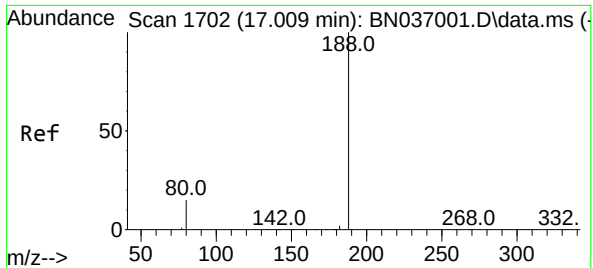


#18  
Fluorene  
Concen: 0.365 ng  
RT: 15.314 min Scan# 1563  
Delta R.T. 0.000 min  
Lab File: BN037109.D  
Acq: 28 May 2025 14:53

Tgt Ion:166 Resp: 3413  
Ion Ratio Lower Upper  
166 100  
165 99.1 80.6 120.8  
167 13.5 10.6 16.0

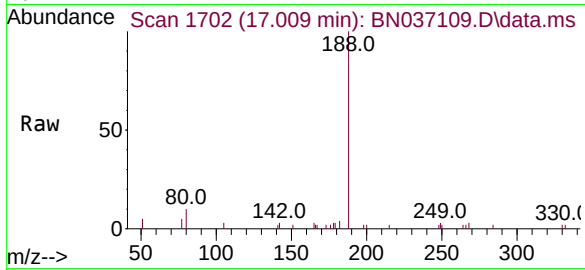






#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 17.009 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: BN037109.D  
Acq: 28 May 2025 14:53

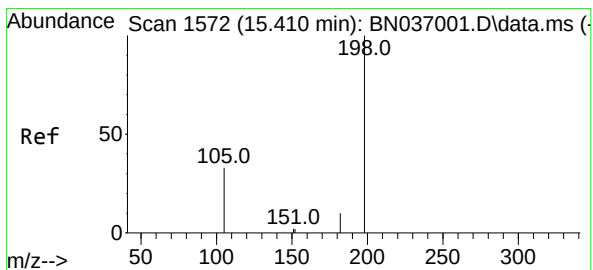
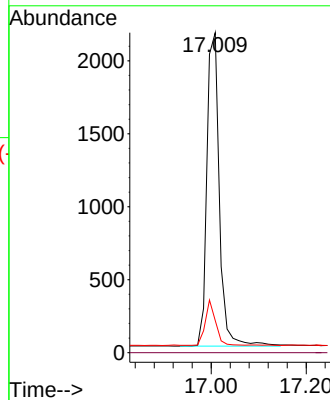
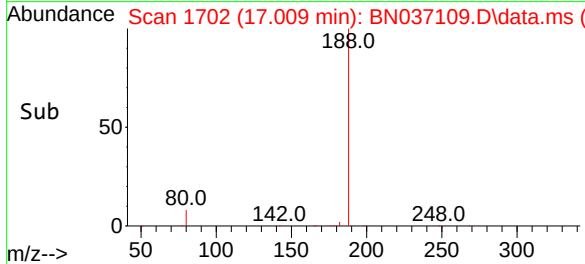
Instrument :  
BNA\_N  
ClientSampleId :  
PB168155BSD



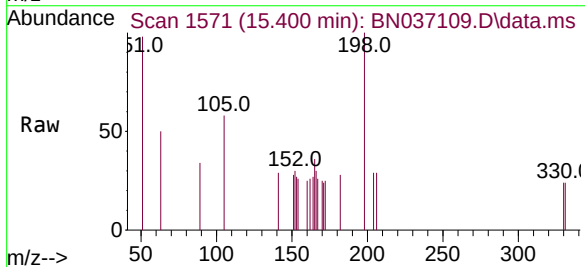
Tgt Ion:188 Resp: 3930  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 10.0 13.4 20.0

Manual Integrations  
APPROVED

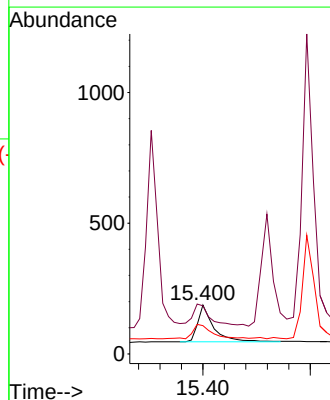
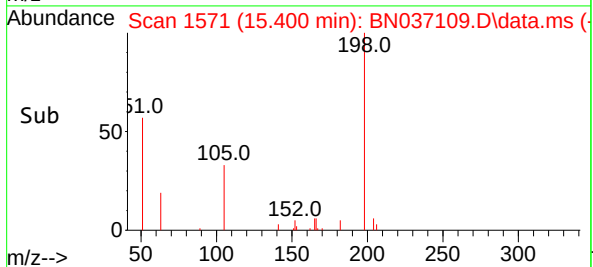
Reviewed By :Rahul Chavli 05/29/2025  
Supervised By :Jagrut Upadhyay 05/29/2025

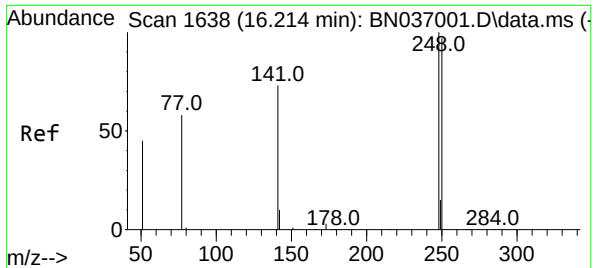


#20  
4,6-Dinitro-2-methylphenol  
Concen: 0.393 ng  
RT: 15.400 min Scan# 1571  
Delta R.T. -0.010 min  
Lab File: BN037109.D  
Acq: 28 May 2025 14:53



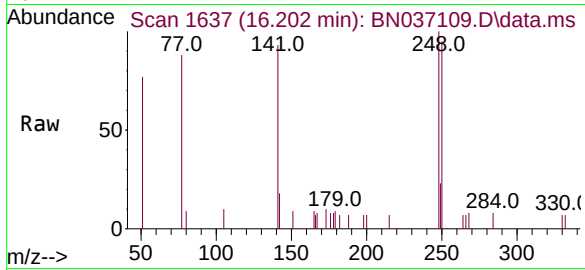
Tgt Ion:198 Resp: 298  
Ion Ratio Lower Upper  
198 100  
51 98.4 87.8 131.6  
105 57.8 44.2 66.4





#21  
4-Bromophenyl-phenylether  
Concen: 0.394 ng  
RT: 16.202 min Scan# 1637  
Delta R.T. -0.012 min  
Lab File: BN037109.D  
Acq: 28 May 2025 14:53

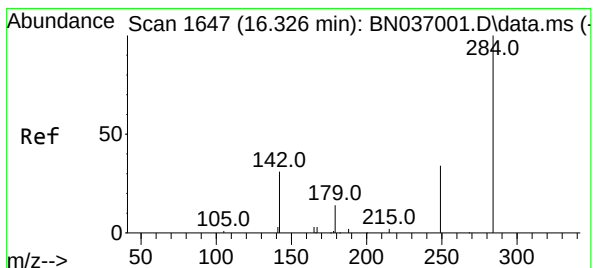
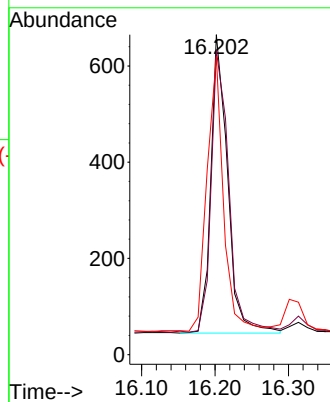
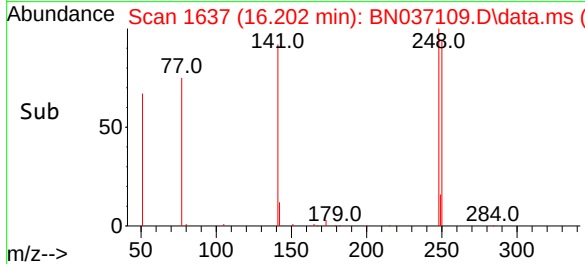
Instrument :  
BNA\_N  
ClientSampleId :  
PB168155BSD



Tgt Ion:248 Resp: 980  
Ion Ratio Lower Upper  
248 100  
250 95.0 78.1 117.1  
141 93.2 59.7 89.5

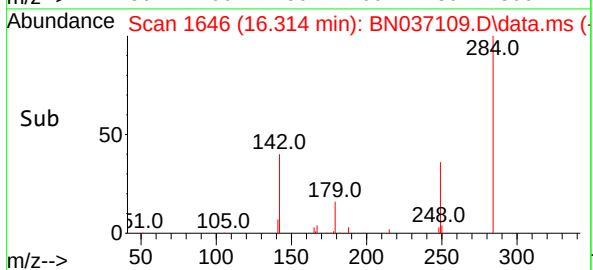
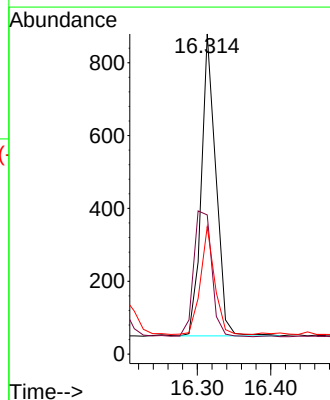
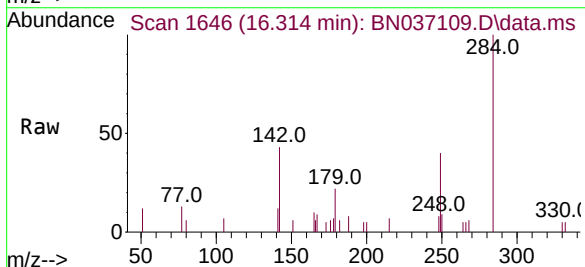
Manual Integrations  
APPROVED

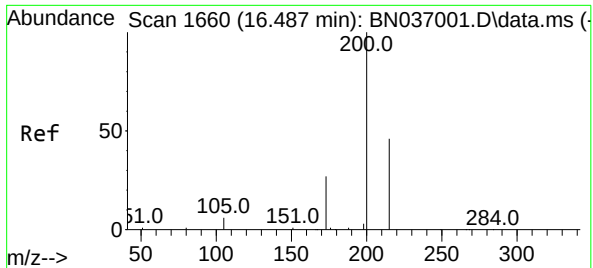
Reviewed By :Rahul Chavli 05/29/2025  
Supervised By :Jagrut Upadhyay 05/29/2025



#22  
Hexachlorobenzene  
Concen: 0.429 ng  
RT: 16.314 min Scan# 1646  
Delta R.T. -0.012 min  
Lab File: BN037109.D  
Acq: 28 May 2025 14:53

Tgt Ion:284 Resp: 1142  
Ion Ratio Lower Upper  
284 100  
142 51.7 41.2 61.8  
249 34.9 28.7 43.1





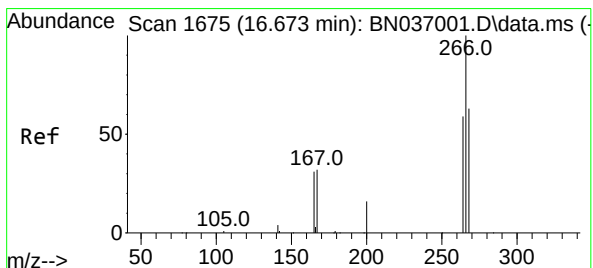
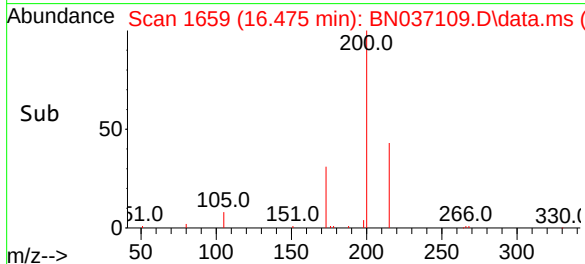
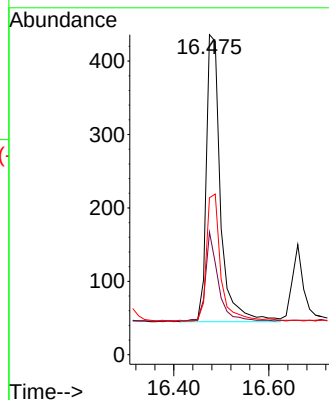
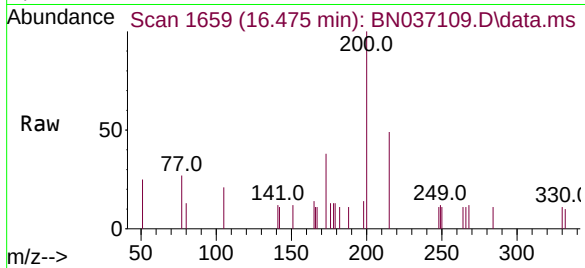
#23  
Atrazine  
Concen: 0.377 ng  
RT: 16.475 min Scan# 1659  
Delta R.T. -0.012 min  
Lab File: BN037109.D  
Acq: 28 May 2025 14:53

Instrument :  
BNA\_N  
ClientSampleId :  
PB168155BSD

Tgt Ion:200 Resp: 818  
Ion Ratio Lower Upper  
200 100  
173 38.3 25.2 37.8  
215 49.1 39.3 58.9

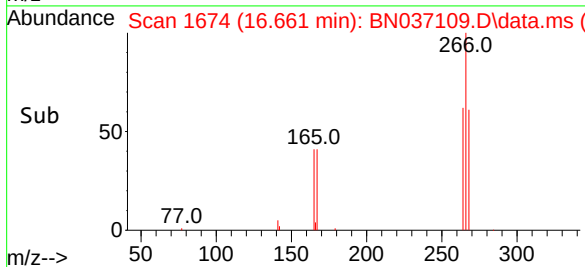
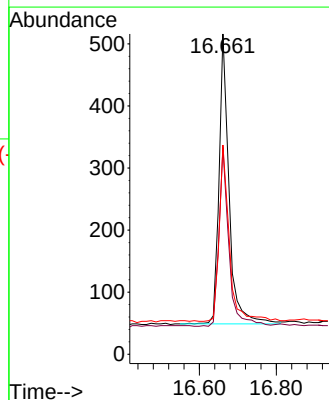
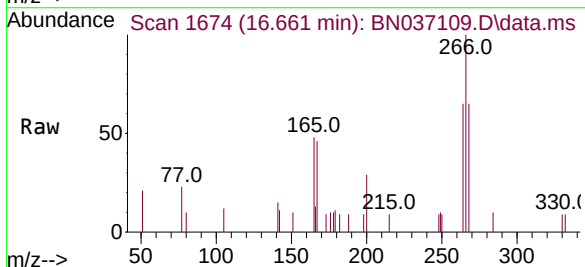
Manual Integrations  
APPROVED

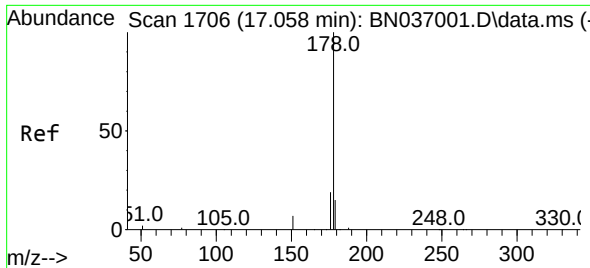
Reviewed By :Rahul Chavli 05/29/2025  
Supervised By :Jagrut Upadhyay 05/29/2025



#24  
Pentachlorophenol  
Concen: 0.575 ng  
RT: 16.661 min Scan# 1674  
Delta R.T. -0.012 min  
Lab File: BN037109.D  
Acq: 28 May 2025 14:53

Tgt Ion:266 Resp: 843  
Ion Ratio Lower Upper  
266 100  
264 61.2 47.9 71.9  
268 61.6 50.0 75.0





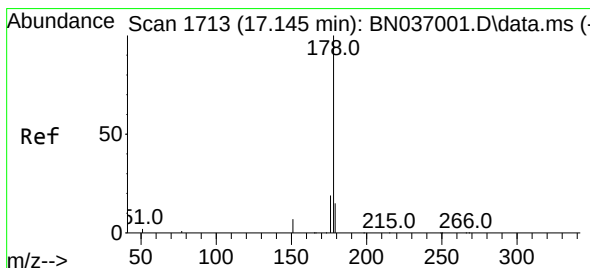
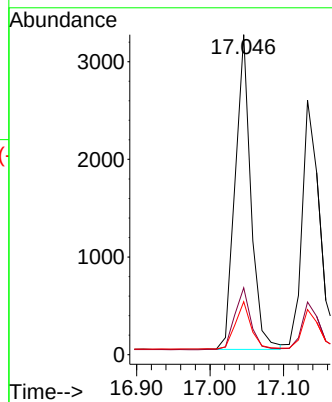
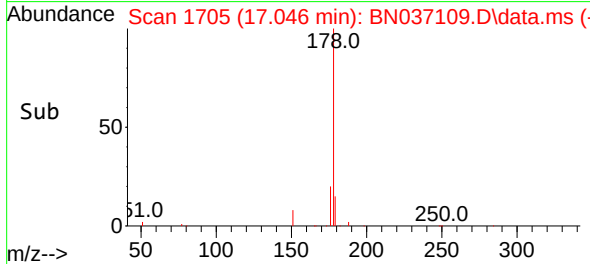
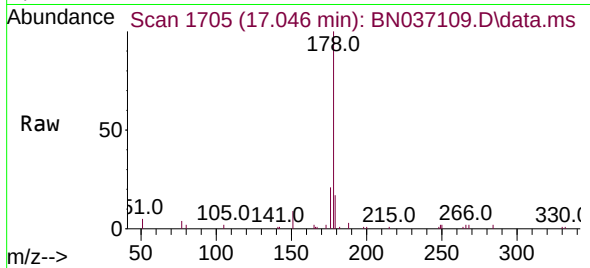
#25  
Phenanthrene  
Concen: 0.372 ng  
RT: 17.046 min Scan# 1710  
Delta R.T. -0.012 min  
Lab File: BN037109.D  
Acq: 28 May 2025 14:53

Instrument :  
BNA\_N  
ClientSampleId :  
PB168155BSD

Tgt Ion:178 Resp: 478  
Ion Ratio Lower Upper  
178 100  
176 20.2 15.7 23.5  
179 15.6 12.2 18.2

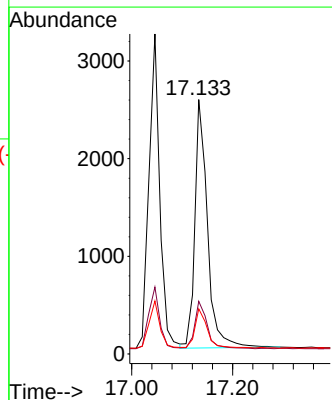
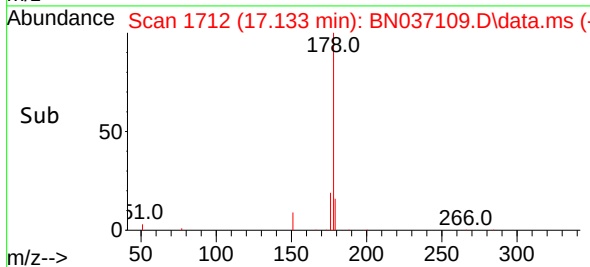
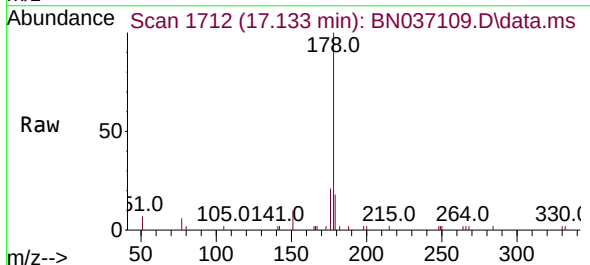
Manual Integrations  
**APPROVED**

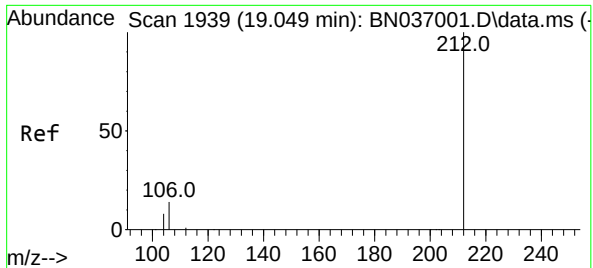
Reviewed By :Rahul Chavli 05/29/2025  
Supervised By :Jagrut Upadhyay 05/29/2025



#26  
Anthracene  
Concen: 0.376 ng  
RT: 17.133 min Scan# 1712  
Delta R.T. -0.012 min  
Lab File: BN037109.D  
Acq: 28 May 2025 14:53

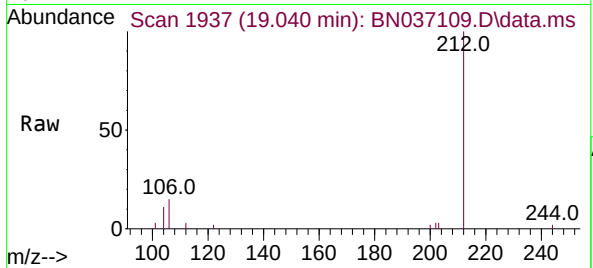
Tgt Ion:178 Resp: 4405  
Ion Ratio Lower Upper  
178 100  
176 18.8 15.0 22.6  
179 15.3 12.3 18.5





#27  
Fluoranthene-d10  
Concen: 0.304 ng  
RT: 19.040 min Scan# 1937  
Delta R.T. -0.009 min  
Lab File: BN037109.D  
Acq: 28 May 2025 14:53

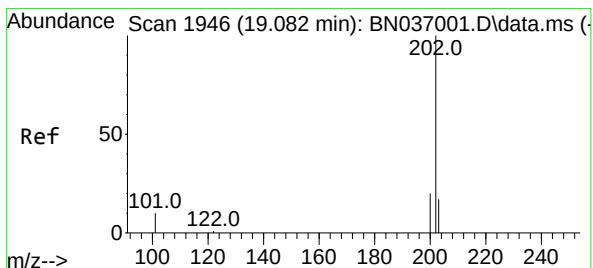
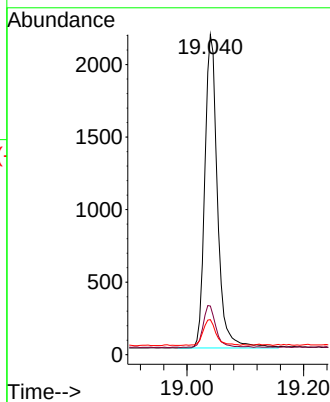
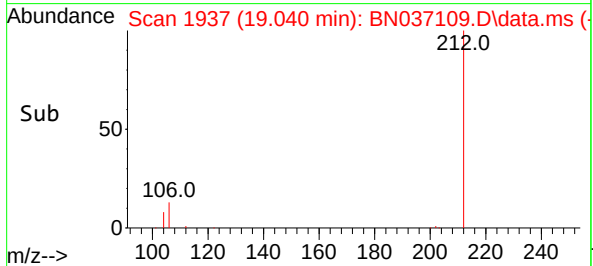
Instrument :  
BNA\_N  
ClientSampleId :  
PB168155BSD



Tgt Ion:212 Resp: 3284  
Ion Ratio Lower Upper  
212 100  
106 13.4 11.3 16.9  
104 8.4 6.7 10.1

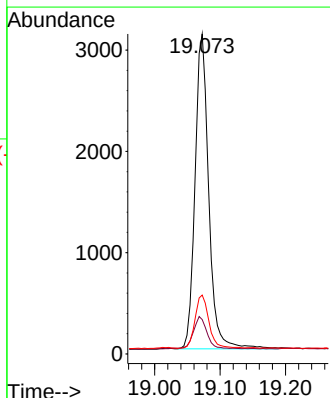
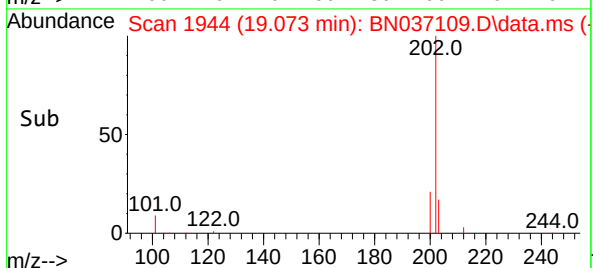
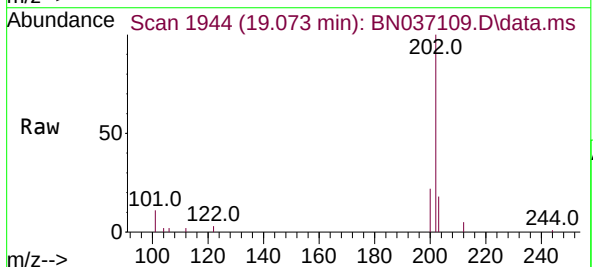
Manual Integrations  
**APPROVED**

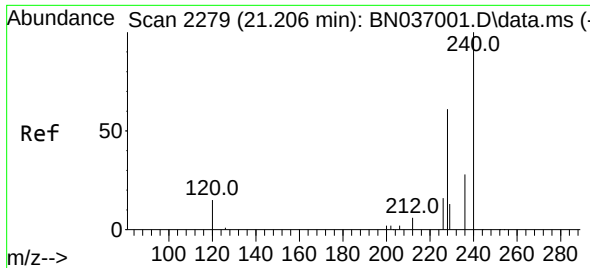
Reviewed By :Rahul Chavli 05/29/2025  
Supervised By :Jagrut Upadhyay 05/29/2025



#28  
Fluoranthene  
Concen: 0.294 ng  
RT: 19.073 min Scan# 1944  
Delta R.T. -0.009 min  
Lab File: BN037109.D  
Acq: 28 May 2025 14:53

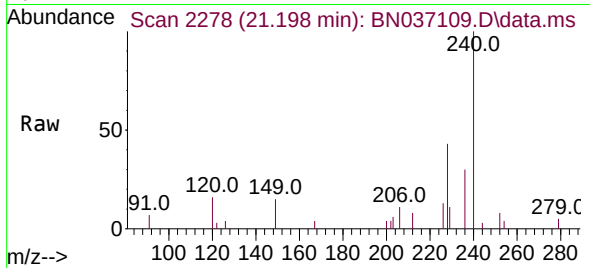
Tgt Ion:202 Resp: 4524  
Ion Ratio Lower Upper  
202 100  
101 10.3 8.9 13.3  
203 17.2 13.8 20.8





#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.198 min Scan# 21198  
Delta R.T. -0.009 min  
Lab File: BN037109.D  
Acq: 28 May 2025 14:53

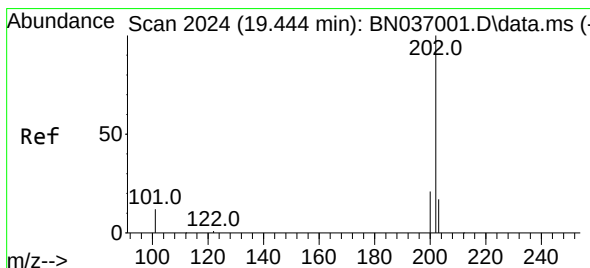
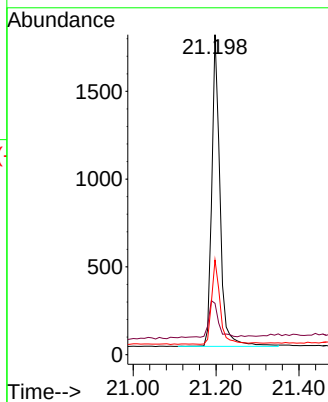
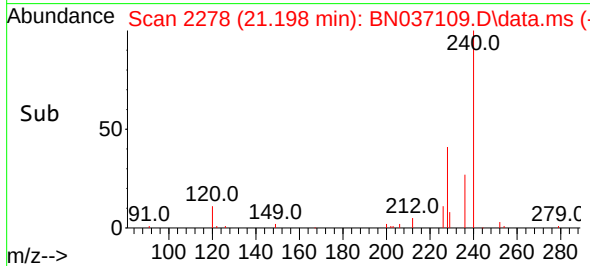
Instrument :  
BNA\_N  
ClientSampleId :  
PB168155BSD



Tgt Ion:240 Resp: 2452  
Ion Ratio Lower Upper  
240 100  
120 16.0 15.1 22.7  
236 29.6 24.0 36.0

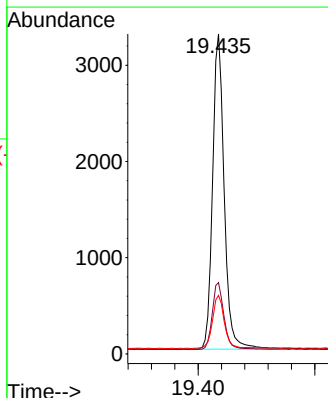
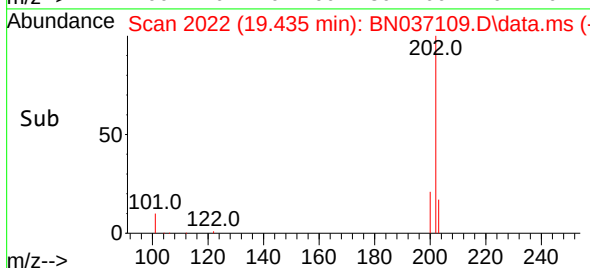
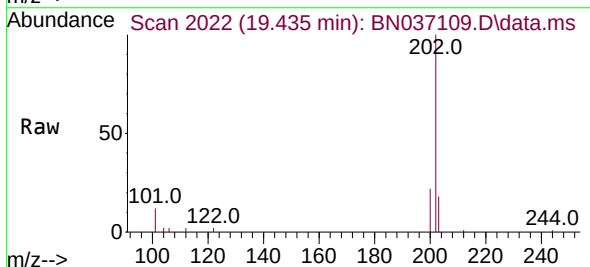
Manual Integrations  
**APPROVED**

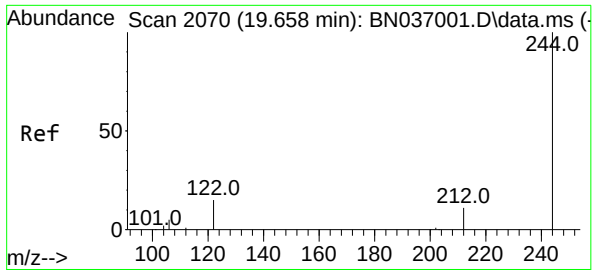
Reviewed By :Rahul Chavli 05/29/2025  
Supervised By :Jagrut Upadhyay 05/29/2025



#30  
Pyrene  
Concen: 0.430 ng  
RT: 19.435 min Scan# 2022  
Delta R.T. -0.009 min  
Lab File: BN037109.D  
Acq: 28 May 2025 14:53

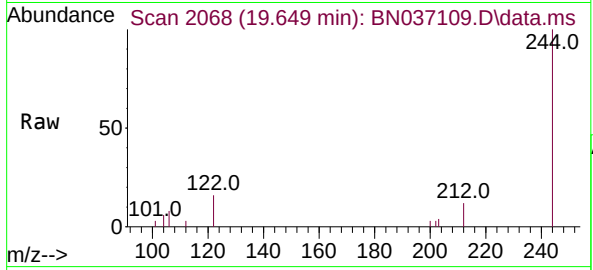
Tgt Ion:202 Resp: 4511  
Ion Ratio Lower Upper  
202 100  
200 21.5 17.1 25.7  
203 17.5 14.2 21.4





#31  
Terphenyl-d14  
Concen: 0.423 ng  
RT: 19.649 min Scan# 2070  
Delta R.T. -0.009 min  
Lab File: BN037109.D  
Acq: 28 May 2025 14:53

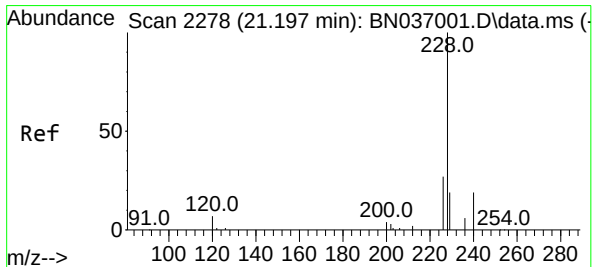
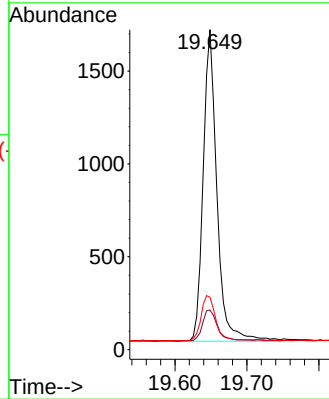
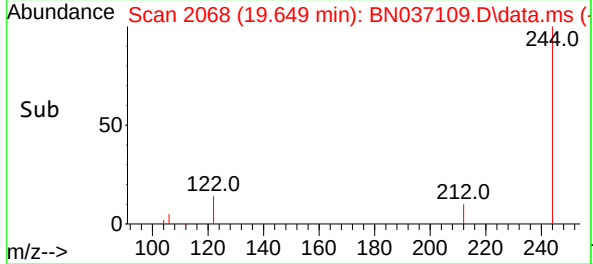
Instrument :  
BNA\_N  
ClientSampleId :  
PB168155BSD



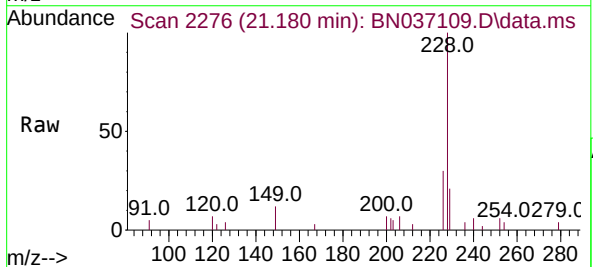
Tgt Ion:244 Resp: 222  
Ion Ratio Lower Upper  
244 100  
212 12.4 9.7 14.5  
122 16.4 13.4 20.0

Manual Integrations  
APPROVED

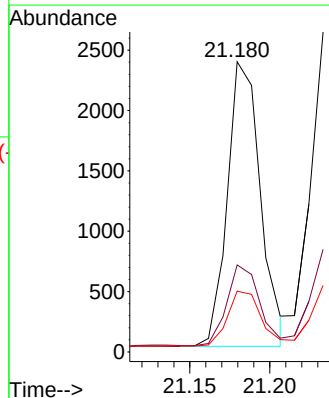
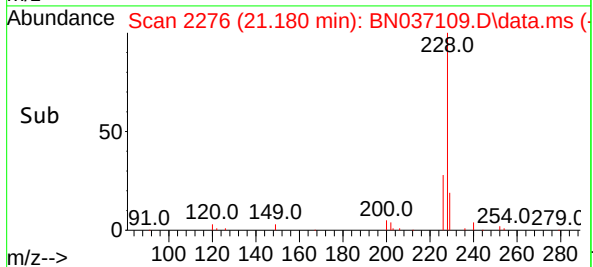
Reviewed By :Rahul Chavli 05/29/2025  
Supervised By :Jagrut Upadhyay 05/29/2025

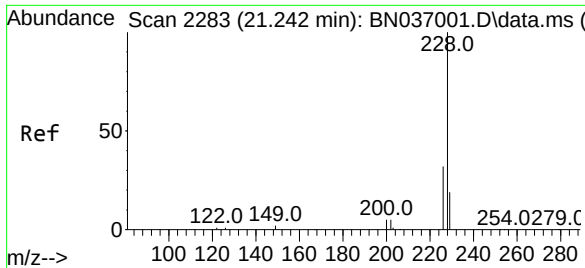


#32  
Benzo(a)anthracene  
Concen: 0.368 ng  
RT: 21.180 min Scan# 2276  
Delta R.T. -0.018 min  
Lab File: BN037109.D  
Acq: 28 May 2025 14:53



Tgt Ion:228 Resp: 3397  
Ion Ratio Lower Upper  
228 100  
226 30.0 22.2 33.4  
229 21.0 16.0 24.0





#33

Chrysene

Concen: 0.398 ng

RT: 21.233 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037109.D

Acq: 28 May 2025 14:53

Instrument :

BNA\_N

ClientSampleId :

PB168155BSD

Tgt Ion:228 Resp: 388

Ion Ratio Lower Upper

228 100

226 32.1 26.3 39.5

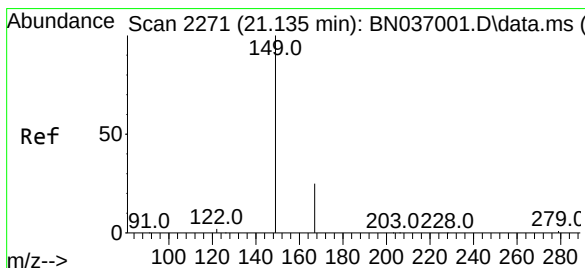
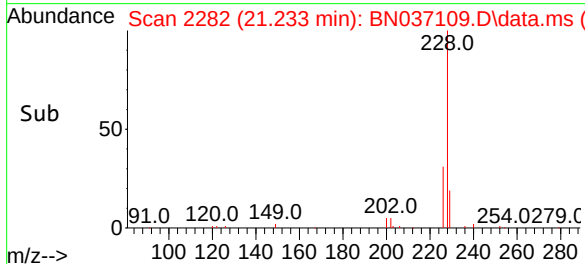
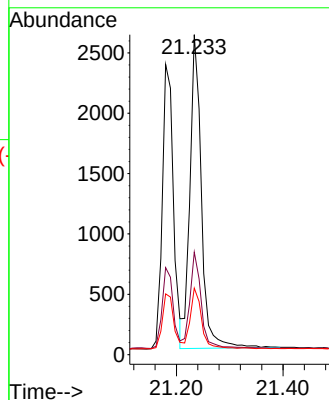
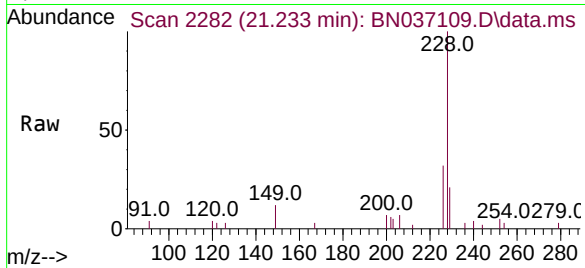
229 20.8 16.2 24.2

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 05/29/2025

Supervised By :Jagrut Upadhyay 05/29/2025



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.351 ng

RT: 21.126 min Scan# 2270

Delta R.T. -0.009 min

Lab File: BN037109.D

Acq: 28 May 2025 14:53

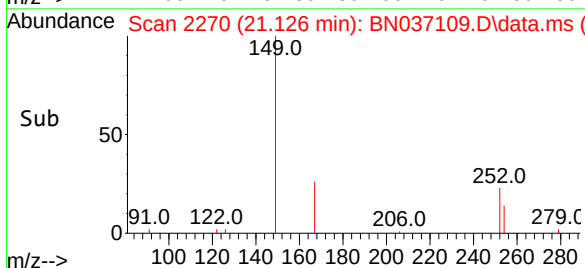
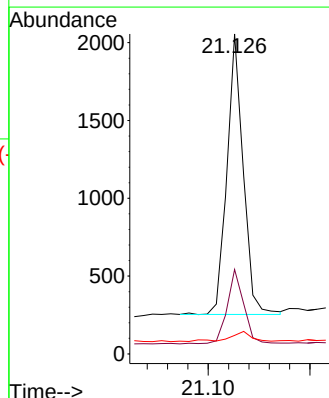
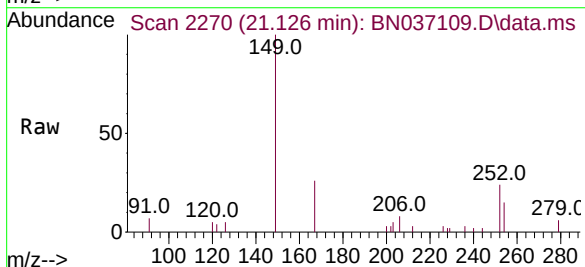
Tgt Ion:149 Resp: 1997

Ion Ratio Lower Upper

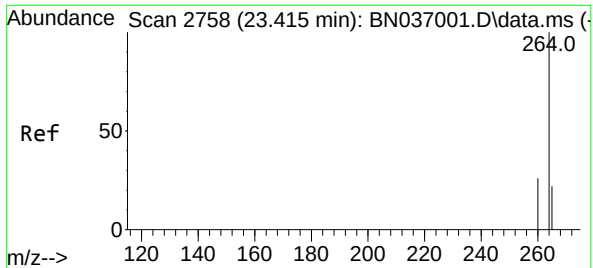
149 100

167 27.5 20.6 30.8

279 4.6 2.6 3.8#

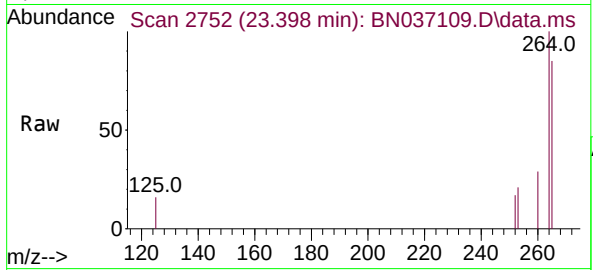






#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.398 min Scan# 21  
Delta R.T. -0.017 min  
Lab File: BN037109.D  
Acq: 28 May 2025 14:53

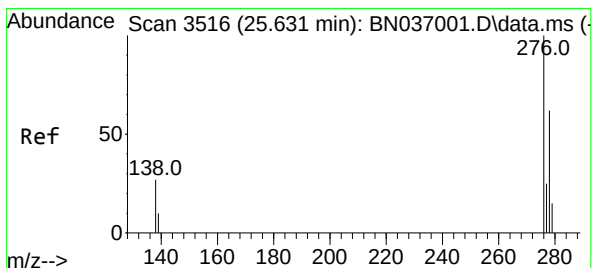
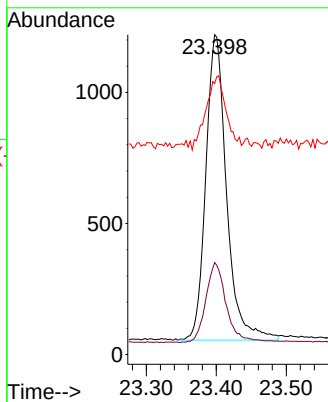
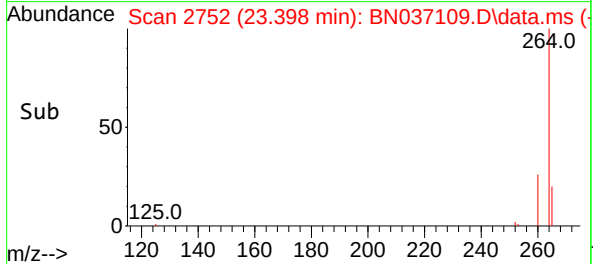
Instrument :  
BNA\_N  
ClientSampleId :  
PB168155BSD



Tgt Ion:264 Resp: 2400  
Ion Ratio Lower Upper  
264 100  
260 28.8 21.9 32.9  
265 84.7 51.6 77.4

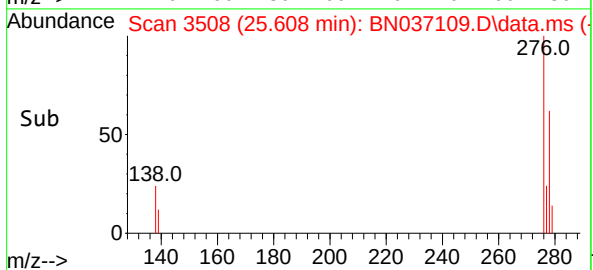
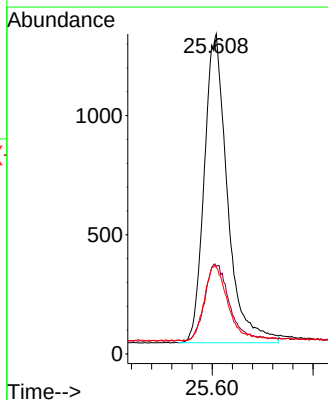
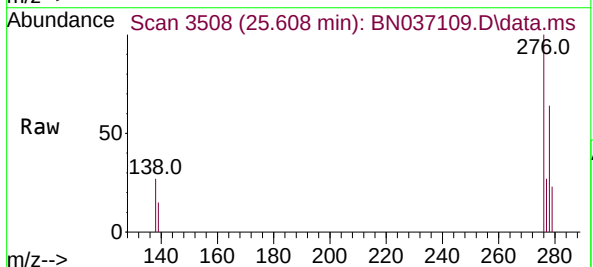
Manual Integrations  
APPROVED

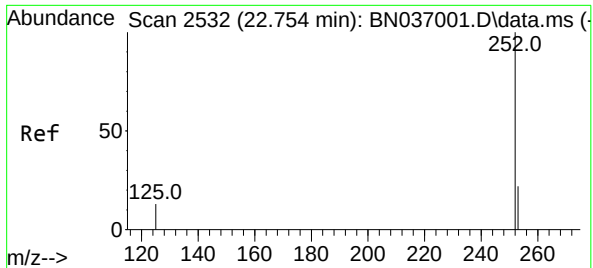
Reviewed By :Rahul Chavli 05/29/2025  
Supervised By :Jagrut Upadhyay 05/29/2025



#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.422 ng  
RT: 25.608 min Scan# 3508  
Delta R.T. -0.023 min  
Lab File: BN037109.D  
Acq: 28 May 2025 14:53

Tgt Ion:276 Resp: 4135  
Ion Ratio Lower Upper  
276 100  
138 26.0 22.7 34.1  
277 24.7 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 0.349 ng

RT: 22.740 min Scan# 2532

Delta R.T. -0.015 min

Lab File: BN037109.D

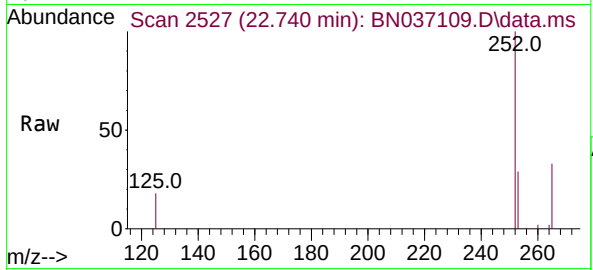
Acq: 28 May 2025 14:53

Instrument :

BNA\_N

ClientSampleId :

PB168155BSD



Tgt Ion:252 Resp: 3470

Ion Ratio Lower Upper

252 100

253 29.3 21.8 32.6

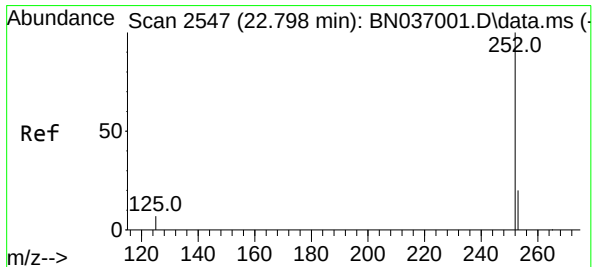
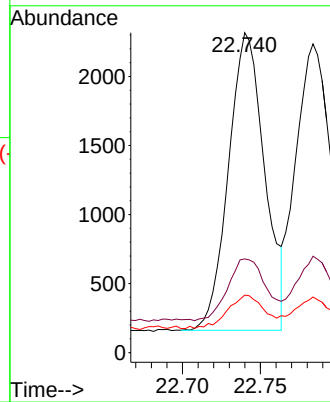
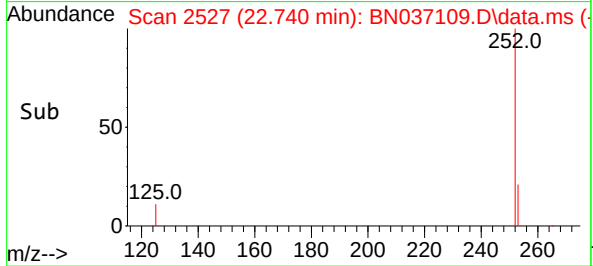
125 18.0 14.6 21.8

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 05/29/2025

Supervised By :Jagrut Upadhyay 05/29/2025



#38

Benzo(k)fluoranthene

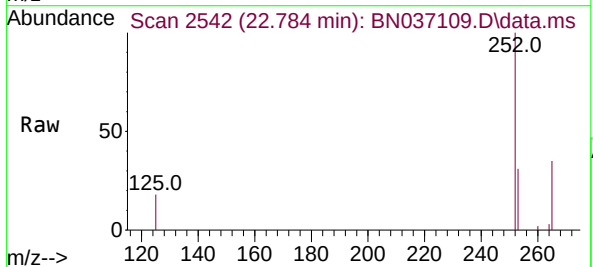
Concen: 0.366 ng

RT: 22.784 min Scan# 2542

Delta R.T. -0.015 min

Lab File: BN037109.D

Acq: 28 May 2025 14:53



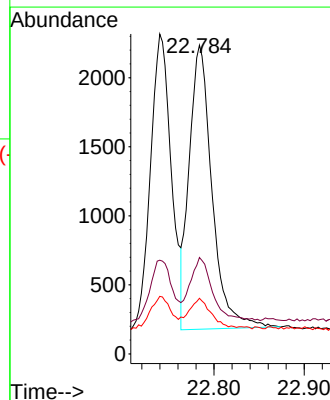
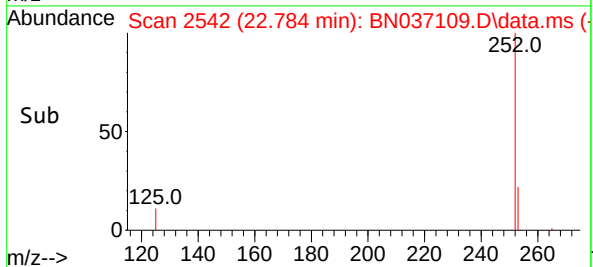
Tgt Ion:252 Resp: 3603

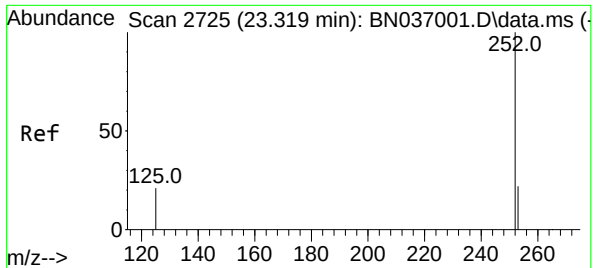
Ion Ratio Lower Upper

252 100

253 31.2 21.4 32.2

125 18.0 13.0 19.4





#39

Benzo(a)pyrene

Concen: 0.384 ng

RT: 23.304 min Scan# 21

Delta R.T. -0.015 min

Lab File: BN037109.D

Acq: 28 May 2025 14:53

Instrument :

BNA\_N

ClientSampleId :

PB168155BSD

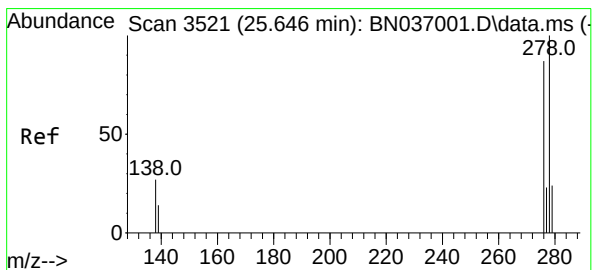
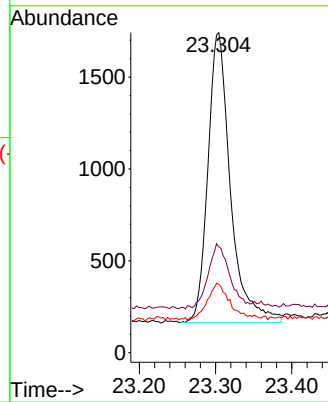
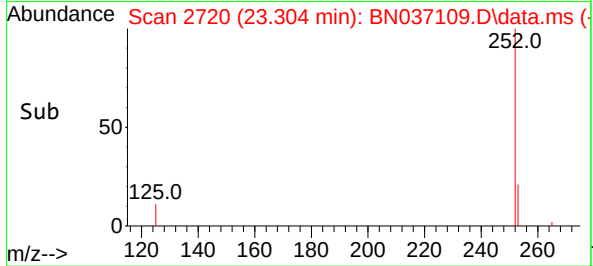
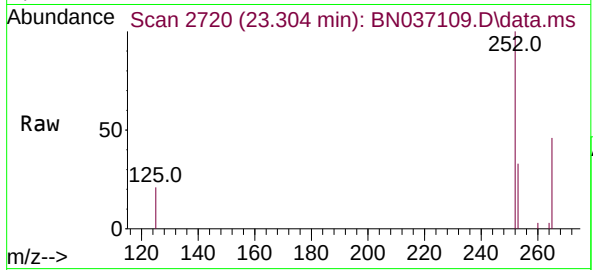
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 252   | Resp: | 3240 |
| Ion Ratio | Lower | Upper |      |
| 252       | 100   |       |      |
| 253       | 33.1  | 23.8  | 35.6 |
| 125       | 21.4  | 21.8  | 32.6 |

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 05/29/2025

Supervised By :Jagrut Upadhyay 05/29/2025



#40

Dibenzo(a,h)anthracene

Concen: 0.418 ng

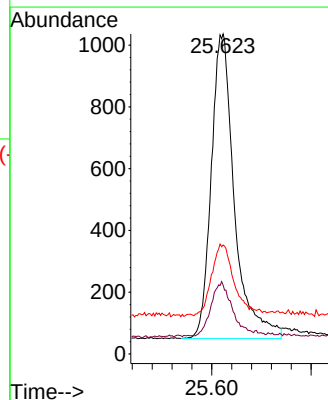
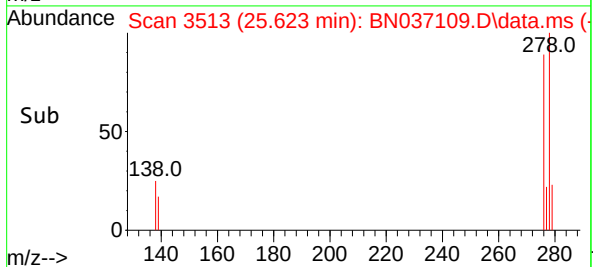
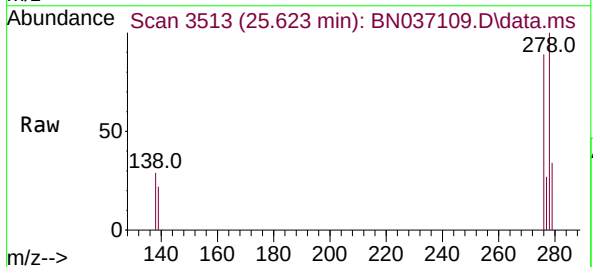
RT: 25.623 min Scan# 3513

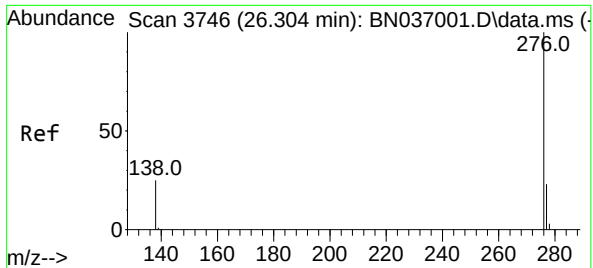
Delta R.T. -0.023 min

Lab File: BN037109.D

Acq: 28 May 2025 14:53

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 278   | Resp: | 3192 |
| Ion Ratio | Lower | Upper |      |
| 278       | 100   |       |      |
| 139       | 21.5  | 17.4  | 26.0 |
| 279       | 34.1  | 24.6  | 37.0 |





#41

Benzo(g,h,i)perylene

Concen: 0.432 ng

RT: 26.275 min Scan# 31

Delta R.T. -0.029 min

Lab File: BN037109.D

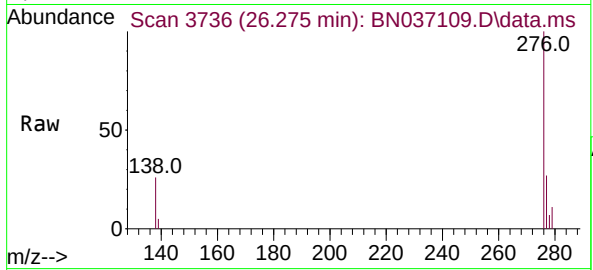
Acq: 28 May 2025 14:53

Instrument :

BNA\_N

ClientSampleId :

PB168155BSD



Tgt Ion:276 Resp: 358

Ion Ratio Lower Upper

276 100

277 26.6 20.2 30.4

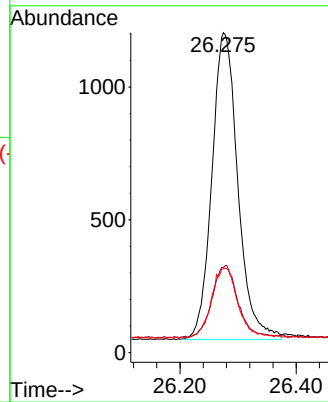
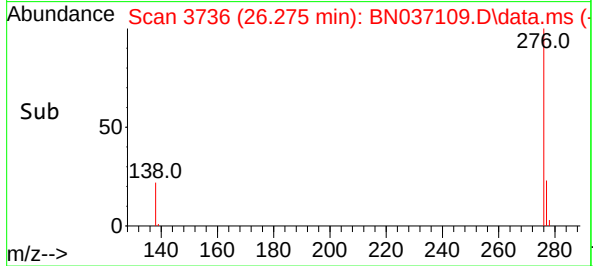
138 26.2 22.0 33.0

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 05/29/2025

Supervised By :Jagrut Upadhyay 05/29/2025



## Manual Integration Report

Sequence:

bn051425

Instrument

BNA\_n

| Sample ID  | File ID    | Parameter            | Review By | Review On            | Supervised By | Supervised On        | Reason                      |
|------------|------------|----------------------|-----------|----------------------|---------------|----------------------|-----------------------------|
| SSTDICC0.2 | BN037000.D | Benzo(b)fluoranthene | Rahul     | 5/15/2025 9:23:24 AM | Jagrut        | 5/15/2025 3:49:25 PM | Peak Integrated by Software |
| SSTDCCC0.4 | BN037009.D | 1,4-Dioxane          | Rahul     | 5/15/2025 9:23:28 AM | Jagrut        | 5/15/2025 3:49:28 PM | Peak Integrated by Software |



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

## Manual Integration Report

Sequence:

BN052825

Instrument

BNA\_n

| Sample ID   | File ID    | Parameter                   | Review By | Review On               | Supervised By | Supervised On           | Reason                      |
|-------------|------------|-----------------------------|-----------|-------------------------|---------------|-------------------------|-----------------------------|
| PB168155BS  | BN037108.D | 2-Methylnaphthalene-d1<br>0 | Rahul     | 5/29/2025 1:10:08<br>PM | Jagrut        | 5/29/2025 1:23:16<br>PM | Peak Integrated by Software |
| PB168155BSD | BN037109.D | 2-Methylnaphthalene-d1<br>0 | Rahul     | 5/29/2025 1:10:10<br>PM | Jagrut        | 5/29/2025 1:23:18<br>PM | Peak Integrated by Software |



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

## Manual Integration Report

Sequence:

BN052925

Instrument

BNA\_n

Sample ID

File ID

Parameter

Review By

Review On

Supervised  
By

Supervised On

Reason

Instrument ID: **BNA\_N**

**Daily Analysis Runlog For Sequence/QC Batch ID # BN051425**

|                          |                                                  |                   |                                               |
|--------------------------|--------------------------------------------------|-------------------|-----------------------------------------------|
| Review By                | Rahul                                            | Review On         | 5/15/2025 9:39:49 AM                          |
| Supervise By             | Jagrut                                           | Supervise On      | 5/15/2025 3:50:12 PM                          |
| SubDirectory             | BN051425                                         | HP Acquire Method | BNA_N, 8270_SiM HP Processing Method bn051425 |
| <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      | BN036998.D     | 13 May 2025 17:02 | RC/JU    | Ok       |
| 2   | SSTDIC0.1  | BN036999.D     | 13 May 2025 17:41 | RC/JU    | Ok       |
| 3   | SSTDIC0.2  | BN037000.D     | 13 May 2025 18:17 | RC/JU    | Ok,M     |
| 4   | SSTDIC0.4  | BN037001.D     | 13 May 2025 18:53 | RC/JU    | Ok       |
| 5   | SSTDIC0.8  | BN037002.D     | 13 May 2025 19:29 | RC/JU    | Ok       |
| 6   | SSTDIC1.6  | BN037003.D     | 13 May 2025 20:05 | RC/JU    | Ok       |
| 7   | SSTDIC3.2  | BN037004.D     | 13 May 2025 20:41 | RC/JU    | Ok       |
| 8   | SSTDIC5.0  | BN037005.D     | 13 May 2025 21:17 | RC/JU    | Ok       |
| 9   | SSTDICV0.4 | BN037006.D     | 13 May 2025 22:29 | RC/JU    | Ok       |
| 10  | PB167888BL | BN037007.D     | 13 May 2025 23:42 | RC/JU    | Not Ok   |
| 11  | DFTPP      | BN037008.D     | 14 May 2025 09:37 | RC/JU    | Ok       |
| 12  | SSTDIC0.4  | BN037009.D     | 14 May 2025 10:31 | RC/JU    | Ok,M     |
| 13  | PB167952BL | BN037010.D     | 14 May 2025 11:20 | RC/JU    | Ok       |
| 14  | Q2000-01   | BN037011.D     | 14 May 2025 12:03 | RC/JU    | Dilution |
| 15  | Q2000-01DL | BN037012.D     | 14 May 2025 13:29 | RC/JU    | Ok       |
| 16  | Q1872-13   | BN037013.D     | 14 May 2025 14:46 | RC/JU    | Dilution |
| 17  | Q1872-13DL | BN037014.D     | 14 May 2025 15:48 | RC/JU    | Ok,M     |
| 18  | Q1985-01   | BN037015.D     | 14 May 2025 16:48 | RC/JU    | Ok       |
| 19  | Q2012-01   | BN037016.D     | 14 May 2025 17:24 | RC/JU    | Dilution |
| 20  | Q2012-02   | BN037017.D     | 14 May 2025 18:00 | RC/JU    | Ok       |
| 21  | Q2012-03   | BN037018.D     | 14 May 2025 18:36 | RC/JU    | Ok,M     |



Instrument ID: **BNA\_N**

**Daily Analysis Runlog For Sequence/QC Batch ID # BN051425**

| Review By                | Rahul                                            | Review On         | 5/15/2025 9:39:49 AM                          |
|--------------------------|--------------------------------------------------|-------------------|-----------------------------------------------|
| Supervise By             | Jagrut                                           | Supervise On      | 5/15/2025 3:50:12 PM                          |
| SubDirectory             | BN051425                                         | HP Acquire Method | BNA_N, 8270_SiM HP Processing Method bn051425 |
| 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 | Q2013-02    | BN037019.D | 14 May 2025 19:12 | RC/JU | Ok   |
| 23 | Q2013-03    | BN037020.D | 14 May 2025 19:48 | RC/JU | Ok   |
| 24 | PB167952BS  | BN037021.D | 14 May 2025 20:24 | RC/JU | Ok,M |
| 25 | PB167952BSD | BN037022.D | 14 May 2025 21:00 | RC/JU | Ok,M |
| 26 | SSTDCCC0.4  | BN037023.D | 14 May 2025 21:36 | RC/JU | Ok   |

M : Manual Integration

Instrument ID: **BNA\_N**

**Daily Analysis Runlog For Sequence/QC Batch ID # BN052825**

|                          |                                                  |                   |                                               |
|--------------------------|--------------------------------------------------|-------------------|-----------------------------------------------|
| Review By                | Rahul                                            | Review On         | 5/29/2025 1:10:50 PM                          |
| Supervise By             | Jagrut                                           | Supervise On      | 5/29/2025 1:23:51 PM                          |
| SubDirectory             | BN052825                                         | HP Acquire Method | BNA_N, 8270_SiM HP Processing Method bn051425 |
| <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       | BN037101.D     | 28 May 2025 10:02 | RC/JU    | Ok     |
| 2   | SSTDCCC0.4  | BN037102.D     | 28 May 2025 10:41 | RC/JU    | Ok     |
| 3   | PB168155BL  | BN037103.D     | 28 May 2025 11:17 | RC/JU    | Ok     |
| 4   | Q2119-02    | BN037104.D     | 28 May 2025 11:53 | RC/JU    | Ok     |
| 5   | Q2119-03    | BN037105.D     | 28 May 2025 12:29 | RC/JU    | Ok     |
| 6   | Q2120-01    | BN037106.D     | 28 May 2025 13:05 | RC/JU    | Ok     |
| 7   | Q2120-02    | BN037107.D     | 28 May 2025 13:41 | RC/JU    | Ok     |
| 8   | PB168155BS  | BN037108.D     | 28 May 2025 14:17 | RC/JU    | Ok,M   |
| 9   | PB168155BSD | BN037109.D     | 28 May 2025 14:53 | RC/JU    | Ok,M   |
| 10  | SSTDCCC0.4  | BN037110.D     | 28 May 2025 15:54 | RC/JU    | Ok     |
| 11  | DFTPP       | BN037111.D     | 28 May 2025 16:31 | RC/JU    | Ok     |
| 12  | SSTDCCC0.4  | BN037112.D     | 28 May 2025 17:11 | RC/JU    | Ok     |
| 13  | PB168100BL  | BN037113.D     | 28 May 2025 17:47 | RC/JU    | Ok     |
| 14  | Q2082-02    | BN037114.D     | 28 May 2025 18:23 | RC/JU    | Ok     |
| 15  | Q2082-04    | BN037115.D     | 28 May 2025 18:59 | RC/JU    | Ok,M   |
| 16  | Q2082-06    | BN037116.D     | 28 May 2025 19:35 | RC/JU    | Ok     |
| 17  | Q2082-08    | BN037117.D     | 28 May 2025 20:11 | RC/JU    | Ok     |
| 18  | Q2082-12    | BN037118.D     | 28 May 2025 20:47 | RC/JU    | Ok     |
| 19  | Q2118-02    | BN037119.D     | 28 May 2025 21:23 | RC/JU    | Ok     |
| 20  | Q2118-05    | BN037120.D     | 28 May 2025 21:59 | RC/JU    | Ok     |
| 21  | Q2118-07    | BN037121.D     | 28 May 2025 22:35 | RC/JU    | Ok     |

Instrument ID: **BNA\_N**

**Daily Analysis Runlog For Sequence/QC Batch ID # BN052825**

| Review By                | Rahul                                            | Review On         | 5/29/2025 1:10:50 PM                          |
|--------------------------|--------------------------------------------------|-------------------|-----------------------------------------------|
| Supervise By             | Jagrut                                           | Supervise On      | 5/29/2025 1:23:51 PM                          |
| SubDirectory             | BN052825                                         | HP Acquire Method | BNA_N, 8270_SiM HP Processing Method bn051425 |
| 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 | Q2118-09    | BN037122.D | 28 May 2025 23:11 | RC/JU | ReRun |
| 23 | Q2119-01    | BN037123.D | 28 May 2025 23:47 | RC/JU | Ok    |
| 24 | PB168100BS  | BN037124.D | 29 May 2025 00:23 | RC/JU | Ok,M  |
| 25 | PB168100BSD | BN037125.D | 29 May 2025 00:59 | RC/JU | Ok,M  |
| 26 | SSTDCCC0.4  | BN037126.D | 29 May 2025 01:35 | RC/JU | Ok    |

M : Manual Integration

Instrument ID: **BNA\_N**

**Daily Analysis Runlog For Sequence/QC Batch ID # BN052925**

|                          |                                                  |                   |                                               |
|--------------------------|--------------------------------------------------|-------------------|-----------------------------------------------|
| Review By                | Rahul                                            | Review On         | 5/29/2025 1:25:40 PM                          |
| Supervise By             | Jagrut                                           | Supervise On      | 5/30/2025 1:16:56 PM                          |
| SubDirectory             | BN052925                                         | HP Acquire Method | BNA_N, 8270_SiM HP Processing Method bn051425 |
| <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      | BN037127.D     | 29 May 2025 09:28 | RC/JU    | Ok     |
| 2   | SSTDCCC0.4 | BN037128.D     | 29 May 2025 10:07 | RC/JU    | Ok     |
| 3   | PB168155BL | BN037129.D     | 29 May 2025 11:06 | RC/JU    | Not Ok |
| 4   | Q2118-09   | BN037130.D     | 29 May 2025 11:42 | RC/JU    | Ok     |
| 5   | SSTDCCC0.4 | BN037131.D     | 29 May 2025 12:51 | RC/JU    | Ok     |

M : Manual Integration

Instrument ID: BNA\_N

**Daily Analysis Runlog For Sequence/QC Batch ID # BN051425**

|              |          |                   |                                           |
|--------------|----------|-------------------|-------------------------------------------|
| Review By    | Rahul    | Review On         | 5/15/2025 9:39:49 AM                      |
| Supervise By | Jagrut   | Supervise On      | 5/15/2025 3:50:12 PM                      |
| SubDirectory | BN051425 | HP Acquire Method | BNA_N, 8270_HP Processing Method bn051425 |

| 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              | BN036998.D     | 13 May 2025 17:02 |                                           | RC/JU    | Ok       |
| 2   | SSTDICC0.1  | SSTDICC0.1         | BN036999.D     | 13 May 2025 17:41 | Compound #02,04,05,20 removed from 0.1ppm | RC/JU    | Ok       |
| 3   | SSTDICC0.2  | SSTDICC0.2         | BN037000.D     | 13 May 2025 18:17 |                                           | RC/JU    | Ok,M     |
| 4   | SSTDICCC0.4 | SSTDICCC0.4        | BN037001.D     | 13 May 2025 18:53 | Compound #20 kept on QR                   | RC/JU    | Ok       |
| 5   | SSTDICC0.8  | SSTDICC0.8         | BN037002.D     | 13 May 2025 19:29 |                                           | RC/JU    | Ok       |
| 6   | SSTDICC1.6  | SSTDICC1.6         | BN037003.D     | 13 May 2025 20:05 |                                           | RC/JU    | Ok       |
| 7   | SSTDICC3.2  | SSTDICC3.2         | BN037004.D     | 13 May 2025 20:41 |                                           | RC/JU    | Ok       |
| 8   | SSTDICC5.0  | SSTDICC5.0         | BN037005.D     | 13 May 2025 21:17 |                                           | RC/JU    | Ok       |
| 9   | SSTDICV0.4  | ICVBN051424        | BN037006.D     | 13 May 2025 22:29 |                                           | RC/JU    | Ok       |
| 10  | PB167888BL  | PB167888BL         | BN037007.D     | 13 May 2025 23:42 | Analyzed for contamination check          | RC/JU    | Not Ok   |
| 11  | DFTPP       | DFTPP              | BN037008.D     | 14 May 2025 09:37 |                                           | RC/JU    | Ok       |
| 12  | SSTDCCC0.4  | SSTDCCC0.4         | BN037009.D     | 14 May 2025 10:31 |                                           | RC/JU    | Ok,M     |
| 13  | PB167952BL  | PB167952BL         | BN037010.D     | 14 May 2025 11:20 |                                           | RC/JU    | Ok       |
| 14  | Q2000-01    | 38072-062223       | BN037011.D     | 14 May 2025 12:03 | PT Sample, Need 50X Dilution              | RC/JU    | Dilution |
| 15  | Q2000-01DL  | 38072-062223DL     | BN037012.D     | 14 May 2025 13:29 |                                           | RC/JU    | Ok       |
| 16  | Q1872-13    | HW0425-PT-PAH-SOIL | BN037013.D     | 14 May 2025 14:46 | PT Sample, Need 10X Dilution              | RC/JU    | Dilution |
| 17  | Q1872-13DL  | HW0425-PT-PAH-SOIL | BN037014.D     | 14 May 2025 15:48 |                                           | RC/JU    | Ok,M     |

Instrument ID: BNA\_N

**Daily Analysis Runlog For Sequence/QC Batch ID # BN051425**

|                                                                                                    |                                                            |                   |                                           |
|----------------------------------------------------------------------------------------------------|------------------------------------------------------------|-------------------|-------------------------------------------|
| Review By                                                                                          | Rahul                                                      | Review On         | 5/15/2025 9:39:49 AM                      |
| Supervise By                                                                                       | Jagrut                                                     | Supervise On      | 5/15/2025 3:50:12 PM                      |
| SubDirectory                                                                                       | BN051425                                                   | HP Acquire Method | BNA_N, 8270_HP Processing Method bn051425 |
| <b>STD. NAME</b>                                                                                   | <b>STD REF.#</b>                                           |                   |                                           |
| Tune/Reschk<br>Initial Calibration Stds                                                            | SP6757<br>SP6781,SP6780,SP6779,SP6778,SP6777,SP6776,SP6775 |                   |                                           |
| CCC<br>Internal Standard/PEM<br>ICV/I.BLK<br>Surrogate Standard<br>MS/MSD Standard<br>LCS Standard | SP6779<br>SP6740,1ul/100ul sample<br>SP6768                |                   |                                           |

|    |             |                    |            |                   |                  |       |          |
|----|-------------|--------------------|------------|-------------------|------------------|-------|----------|
| 18 | Q1985-01    | RW8-BW-20250507    | BN037015.D | 14 May 2025 16:48 |                  | RC/JU | Ok       |
| 19 | Q2012-01    | RW5-SP100-20250509 | BN037016.D | 14 May 2025 17:24 | Need 2X Dilution | RC/JU | Dilution |
| 20 | Q2012-02    | RW5-SP201-20250509 | BN037017.D | 14 May 2025 18:00 |                  | RC/JU | Ok       |
| 21 | Q2012-03    | RW5-SP303-20250509 | BN037018.D | 14 May 2025 18:36 |                  | RC/JU | Ok,M     |
| 22 | Q2013-02    | BP-TT192D2-GW-2025 | BN037019.D | 14 May 2025 19:12 |                  | RC/JU | Ok       |
| 23 | Q2013-03    | BP-TT192D1-GW-2025 | BN037020.D | 14 May 2025 19:48 |                  | RC/JU | Ok       |
| 24 | PB167952BS  | PB167952BS         | BN037021.D | 14 May 2025 20:24 |                  | RC/JU | Ok,M     |
| 25 | PB167952BSD | PB167952BSD        | BN037022.D | 14 May 2025 21:00 |                  | RC/JU | Ok,M     |
| 26 | SSTDCCC0.4  | SSTDCCC0.4EC       | BN037023.D | 14 May 2025 21:36 |                  | RC/JU | Ok       |

M : Manual Integration

Instrument ID: BNA\_N

**Daily Analysis Runlog For Sequence/QC Batch ID # BN052825**

|              |          |                   |                                           |
|--------------|----------|-------------------|-------------------------------------------|
| Review By    | Rahul    | Review On         | 5/29/2025 1:10:50 PM                      |
| Supervise By | Jagrut   | Supervise On      | 5/29/2025 1:23:51 PM                      |
| SubDirectory | BN052825 | HP Acquire Method | BNA_N, 8270_HP Processing Method bn051425 |

| STD. NAME                                                                                          | STD REF.#                                                  |
|----------------------------------------------------------------------------------------------------|------------------------------------------------------------|
| Tune/Reschk<br>Initial Calibration Stds                                                            | SP6757<br>SP6781,SP6780,SP6779,SP6778,SP6777,SP6776,SP6775 |
| CCC<br>Internal Standard/PEM<br>ICV/I.BLK<br>Surrogate Standard<br>MS/MSD Standard<br>LCS Standard | SP6779<br>SP6740,1ul/100ul sample<br>SP6768                |

| Sr# | SampleID    | ClientID            | Data File Name | Date-Time         | Comment | Operator | Status |
|-----|-------------|---------------------|----------------|-------------------|---------|----------|--------|
| 1   | DFTPP       | DFTPP               | BN037101.D     | 28 May 2025 10:02 |         | RC/JU    | Ok     |
| 2   | SSTDCCC0.4  | SSTDCCC0.4          | BN037102.D     | 28 May 2025 10:41 |         | RC/JU    | Ok     |
| 3   | PB168155BL  | PB168155BL          | BN037103.D     | 28 May 2025 11:17 |         | RC/JU    | Ok     |
| 4   | Q2119-02    | RW5-SP201-20250522  | BN037104.D     | 28 May 2025 11:53 |         | RC/JU    | Ok     |
| 5   | Q2119-03    | RW5-SP303-20250522  | BN037105.D     | 28 May 2025 12:29 |         | RC/JU    | Ok     |
| 6   | Q2120-01    | VPB182-HYD-2025052  | BN037106.D     | 28 May 2025 13:05 |         | RC/JU    | Ok     |
| 7   | Q2120-02    | BP-VPB-182-EB-20250 | BN037107.D     | 28 May 2025 13:41 |         | RC/JU    | Ok     |
| 8   | PB168155BS  | PB168155BS          | BN037108.D     | 28 May 2025 14:17 |         | RC/JU    | Ok,M   |
| 9   | PB168155BSD | PB168155BSD         | BN037109.D     | 28 May 2025 14:53 |         | RC/JU    | Ok,M   |
| 10  | SSTDCCC0.4  | SSTDCCC0.4EC        | BN037110.D     | 28 May 2025 15:54 |         | RC/JU    | Ok     |
| 11  | DFTPP       | DFTPP               | BN037111.D     | 28 May 2025 16:31 |         | RC/JU    | Ok     |
| 12  | SSTDCCC0.4  | SSTDCCC0.4          | BN037112.D     | 28 May 2025 17:11 |         | RC/JU    | Ok     |
| 13  | PB168100BL  | PB168100BL          | BN037113.D     | 28 May 2025 17:47 |         | RC/JU    | Ok     |
| 14  | Q2082-02    | BP-VPB-182-GW-260-2 | BN037114.D     | 28 May 2025 18:23 |         | RC/JU    | Ok     |
| 15  | Q2082-04    | BP-VPB-182-GW-300-3 | BN037115.D     | 28 May 2025 18:59 |         | RC/JU    | Ok,M   |
| 16  | Q2082-06    | BP-VPB-182-GW-340-3 | BN037116.D     | 28 May 2025 19:35 |         | RC/JU    | Ok     |
| 17  | Q2082-08    | BP-VPB-182-GW-390-3 | BN037117.D     | 28 May 2025 20:11 |         | RC/JU    | Ok     |
| 18  | Q2082-12    | VPB182-HYD-2025051  | BN037118.D     | 28 May 2025 20:47 |         | RC/JU    | Ok     |

Instrument ID: BNA\_N

**Daily Analysis Runlog For Sequence/QC Batch ID # BN052825**

| Review By                | Rahul                                            | Review On         | 5/29/2025 1:10:50 PM                      |
|--------------------------|--------------------------------------------------|-------------------|-------------------------------------------|
| Supervise By             | Jagrut                                           | Supervise On      | 5/29/2025 1:23:51 PM                      |
| SubDirectory             | BN052825                                         | HP Acquire Method | BNA_N, 8270_HP Processing Method bn051425 |
| 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             |                                                  |                   |                                           |

|    |             |                     |            |                   |                        |       |       |
|----|-------------|---------------------|------------|-------------------|------------------------|-------|-------|
| 19 | Q2118-02    | BP-VPB-182-GW-420-4 | BN037119.D | 28 May 2025 21:23 |                        | RC/JU | Ok    |
| 20 | Q2118-05    | BP-VPB-182-GW-460-4 | BN037120.D | 28 May 2025 21:59 |                        | RC/JU | Ok    |
| 21 | Q2118-07    | BP-VPB-182-GW-500-5 | BN037121.D | 28 May 2025 22:35 |                        | RC/JU | Ok    |
| 22 | Q2118-09    | BP-VPB-182-GW-540-5 | BN037122.D | 28 May 2025 23:11 | Internal Standard Fail | RC/JU | ReRun |
| 23 | Q2119-01    | RW5-SP100-20250522  | BN037123.D | 28 May 2025 23:47 |                        | RC/JU | Ok    |
| 24 | PB168100BS  | PB168100BS          | BN037124.D | 29 May 2025 00:23 |                        | RC/JU | Ok,M  |
| 25 | PB168100BSD | PB168100BSD         | BN037125.D | 29 May 2025 00:59 |                        | RC/JU | Ok,M  |
| 26 | SSTDCCC0.4  | SSTDCCC0.4EC        | BN037126.D | 29 May 2025 01:35 |                        | RC/JU | Ok    |

M : Manual Integration



Instrument ID: BNA\_N

**Daily Analysis Runlog For Sequence/QC Batch ID # BN052925**

|              |          |                   |                                           |
|--------------|----------|-------------------|-------------------------------------------|
| Review By    | Rahul    | Review On         | 5/29/2025 1:25:40 PM                      |
| Supervise By | Jagrut   | Supervise On      | 5/30/2025 1:16:56 PM                      |
| SubDirectory | BN052925 | HP Acquire Method | BNA_N, 8270_HP Processing Method bn051425 |

| 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               | BN037127.D     | 29 May 2025 09:28 |          | RC/JU    | Ok     |
| 2   | SSTDCCC0.4 | SSTDCCC0.4          | BN037128.D     | 29 May 2025 10:07 |          | RC/JU    | Ok     |
| 3   | PB168155BL | PB168155BL          | BN037129.D     | 29 May 2025 11:06 | Not Used | RC/JU    | Not Ok |
| 4   | Q2118-09   | BP-VPB-182-GW-540-5 | BN037130.D     | 29 May 2025 11:42 |          | RC/JU    | Ok     |
| 5   | SSTDCCC0.4 | SSTDCCC0.4EC        | BN037131.D     | 29 May 2025 12:51 |          | RC/JU    | Ok     |

M : Manual Integration

**SOP ID:** M3510C,3580A-Extraction SVOC-20

**Clean Up SOP #:** N/A

**Matrix :** Water

**Weigh By:** N/A **Extraction By:** RS

**Balance check:** N/A **Filter By:** RJ

**Balance ID:** N/A **pH Meter ID:** N/A

**pH Strip Lot#:** E3880 **Hood ID:** 4,5,6,7

**Extraction Method:** ☒ Seperatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☐ Soxhlet

**Extraction Start Date :** 05/23/2025

**Extraction Start Time :** 11:50

**Extraction End Date :** 05/23/2025

**Extraction End Time :** 17:00

**Concentration By:** EH

**Supervisor By :** RUPESH

| 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            | EP2614     |
| 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# 2210673. pH Adjusted<2 with 1:1 H2SO4 &>11 with 10 N NaOH, Q2118-07 used Limited volume as sample is muddy & Q2118-09 Limited volume received.

**KD Bath ID:** WATER BATH-1,2 **Envap ID:** NEVAP-02

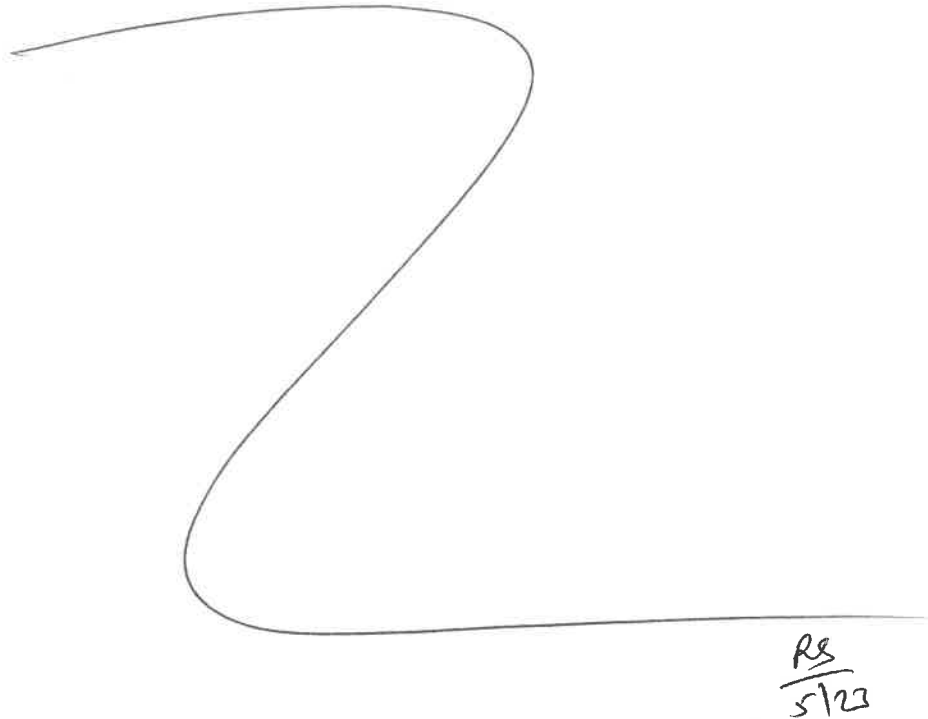
**KD Bath Temperature:** 60 °C **Envap Temperature:** 40 °C

| Date / Time      | Prepped Sample Relinquished By/Location | Received By/Location |
|------------------|-----------------------------------------|----------------------|
| 5/23/25<br>17:05 | RS (Bath Lab)                           | RC/SVOC              |
|                  | Preparation Group                       | Analysis Group       |

Analytical Method: M3510C,3580A-Extraction SVOC-20

 Concentration Date: 05/23/2025

| Sample ID       | Client Sample ID           | Test               | g / mL | PH | Surr/Spike By: |            | Final Vol. (mL) | JarID | Comments | Prep Pos |
|-----------------|----------------------------|--------------------|--------|----|----------------|------------|-----------------|-------|----------|----------|
|                 |                            |                    |        |    | AddedBy        | VerifiedBy |                 |       |          |          |
| PB168155BL      | SBLK155                    | SVOC-SIMGrou<br>p1 | 1000   | 6  | RUPESH         | ritesh     | 1               |       |          | SEP-1    |
| PB168155BS      | SLCS155                    | SVOC-SIMGrou<br>p1 | 1000   | 6  | RUPESH         | ritesh     | 1               |       |          | 2        |
| PB168155BS<br>D | SLCSD155                   | SVOC-SIMGrou<br>p1 | 1000   | 6  | RUPESH         | ritesh     | 1               |       |          | 3        |
| Q2118-02        | BP-TPB-182-GW-420-422      | SVOC-SIMGrou<br>p1 | 820    | 6  | RUPESH         | ritesh     | 1               | C     |          | 4        |
| Q2118-05        | BP-TPB-182-GW-460-462      | SVOC-SIMGrou<br>p1 | 840    | 6  | RUPESH         | ritesh     | 1               | C     |          | 5        |
| Q2118-07        | BP-TPB-182-GW-500-502      | SVOC-SIMGrou<br>p1 | 100    | 6  | RUPESH         | ritesh     | 1               | E     | Muddy    | 6        |
| Q2118-09        | BP-TPB-182-GW-540-542<br>2 | SVOC-SIMGrou<br>p1 | 410    | 6  | RUPESH         | ritesh     | 1               | C     |          | 7        |
| Q2119-01        | RW5-SP100-20250522         | SVOC-SIMGrou<br>p1 | 1000   | 6  | RUPESH         | ritesh     | 1               |       |          | 8        |
| Q2119-02        | RW5-SP201-20250522         | SVOC-SIMGrou<br>p1 | 990    | 6  | RUPESH         | ritesh     | 1               |       |          | 9        |
| Q2119-03        | RW5-SP303-20250522         | SVOC-SIMGrou<br>p1 | 1000   | 6  | RUPESH         | ritesh     | 1               |       |          | 10       |
| Q2120-01        | VPB182-HYD-20250522        | SVOC-SIMGrou<br>p1 | 890    | 6  | RUPESH         | ritesh     | 1               | C     |          | 11       |
| Q2120-02        | BP-VPB-182-EB-2025052<br>2 | SVOC-SIMGrou<br>p1 | 860    | 6  | RUPESH         | ritesh     | 1               | C     |          | 12       |



RS  
5/23

168150  
11:50

# WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q2118

WorkList ID : 189743

Department : Extraction

Date : 05-23-2025 11:43:29

| Sample   | Customer Sample        | Matrix | Test           | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method        |
|----------|------------------------|--------|----------------|--------------|----------|-----------------------------|--------------|---------------|
| Q2118-02 | BP-TPB-182-GW-420-422  | Water  | SVOC-SIMGroup1 | Cool 4 deg C | TETR06   | L41                         | 05/20/2025   | 8270-Modified |
| Q2118-05 | BP-TPB-182-GW-460-462  | Water  | SVOC-SIMGroup1 | Cool 4 deg C | TETR06   | L41                         | 05/21/2025   | 8270-Modified |
| Q2118-07 | BP-TPB-182-GW-500-502  | Water  | SVOC-SIMGroup1 | Cool 4 deg C | TETR06   | L41                         | 05/21/2025   | 8270-Modified |
| Q2118-09 | BP-TPB-182-GW-540-5422 | Water  | SVOC-SIMGroup1 | Cool 4 deg C | TETR06   | L41                         | 05/22/2025   | 8270-Modified |
| Q2119-01 | RW5-SP100-20250522     | Water  | SVOC-SIMGroup1 | Cool 4 deg C | TETR06   | L41                         | 05/22/2025   | 8270-Modified |
| Q2119-02 | RW5-SP201-20250522     | Water  | SVOC-SIMGroup1 | Cool 4 deg C | TETR06   | L41                         | 05/22/2025   | 8270-Modified |
| Q2119-03 | RW5-SP303-20250522     | Water  | SVOC-SIMGroup1 | Cool 4 deg C | TETR06   | L41                         | 05/22/2025   | 8270-Modified |
| Q2120-01 | VPB182-HYD-20250522    | Water  | SVOC-SIMGroup1 | Cool 4 deg C | TETR06   | L41                         | 05/22/2025   | 8270-Modified |
| Q2120-02 | BP-VPB-182-EB-20250522 | Water  | SVOC-SIMGroup1 | Cool 4 deg C | TETR06   | L41                         | 05/22/2025   | 8270-Modified |

Date/Time 5/23/25 11:45  
Raw Sample Received by: RS (Ext-966)  
Raw Sample Relinquished by: OP SM

Date/Time 5/23/25 12:30  
Raw Sample Received by: OP SM  
Raw Sample Relinquished by: RS (Ext-966)

## Prep Standard - Chemical Standard Summary

**Order ID :** Q2118

**Test :** SVOC-SIMGroup1

**Prepbatch ID :** PB168155,

**Sequence ID/Qc Batch ID:** BN052825,BN052925,

**Standard ID :**

EP2609,EP2610,EP2614,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,



| <u>Recipe ID</u> | <u>NAME</u>                                                                  | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u>                      | <u>PipetteID</u> | <u>Supervised By</u>                |
|------------------|------------------------------------------------------------------------------|------------------------|------------------|------------------------|--------------------|-------------------------------------|------------------|-------------------------------------|
| 1874             | 10 N SODIUM HYDROXIDE SOLN                                                   | <a href="#">EP2609</a> | 05/07/2025       | 11/07/2025             | RUPESHKUMAR SHAH   | Extraction_SC<br>ALE_2<br>(EX-SC-2) | None             | Riteshkumar Patel<br><br>05/07/2025 |
| <u>FROM</u>      | 1000.00000ml of W3112 + 400.00000gram of E3657 = Final Quantity: 1000.000 ml |                        |                  |                        |                    |                                     |                  |                                     |

| <u>Recipe ID</u> | <u>NAME</u>                                                                 | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u>                  | <u>PipetteID</u> | <u>Supervised By</u>                |
|------------------|-----------------------------------------------------------------------------|------------------------|------------------|------------------------|--------------------|---------------------------------|------------------|-------------------------------------|
| 314              | 1.1 H2SO4 SOLN                                                              | <a href="#">EP2610</a> | 05/07/2025       | 11/07/2025             | RUPESHKUMAR SHAH   | Extraction_SCALE_2<br>(EX-SC-2) | None             | Riteshkumar Patel<br><br>05/07/2025 |
| <u>FROM</u>      | 1000.00000ml of M6157 + 1000.00000ml of W3112 = Final Quantity: 2000.000 ml |                        |                  |                        |                    |                                 |                  |                                     |



| <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="#">EP2614</a> | 05/19/2025       | 07/01/2025             | RUPESHKUMAR SHAH   | Extraction_SCALE_2<br>(EX-SC-2) | None             | Riteshkumar Patel<br>05/19/2025 |
| <b><u>FROM</u></b> 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         |
| 02/28/2025       |                           |                        |                  |                        |                    |                |                  |                      |

|                    |                                                                     |
|--------------------|---------------------------------------------------------------------|
| <b><u>FROM</u></b> | 0.10000ml of S12651 + 4.90000ml of E3874 = Final Quantity: 5.000 ml |
|--------------------|---------------------------------------------------------------------|



| <u>Recipe ID</u> | <u>NAME</u>                                                                                                                                                    | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u>         |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|------------------------------|
| 3492             | 8270-SIM-Spike 0.4 PPM                                                                                                                                         | <a href="#">SP6756</a> | 03/24/2025       | 07/29/2025             | Rahul Chavli       | None           | None             | mohammad ahmed<br>04/07/2025 |
| <u>FROM</u>      | 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 DFTTP 8270E                                                  | <a href="#">SP6757</a> | 03/31/2025       | 09/30/2025             | Rahul Chavli       | None           | None             | Jagrut Upadhyay<br>04/01/2025 |
| <u>FROM</u>      | 1.00000ml of S12577 + 19.00000ml of E3904 = Final Quantity: 20.000 ml |                        |                  |                        |                    |                |                  |                               |





|                  |                            |                        |                  |                        |                    |                |                  |                                  |
|------------------|----------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------------------|
| <u>Recipe ID</u> | <u>NAME</u>                | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u>             |
| 3491             | 8270-SIM-Surrogate 0.4 PPM | <a href="#">SP6758</a> | 04/03/2025       | 07/24/2025             | Rahul Chavli       | None           | None             | mohammad ahmed<br><br>04/07/2025 |

|                    |                                                                                                                     |
|--------------------|---------------------------------------------------------------------------------------------------------------------|
| <b><u>FROM</u></b> | 0.00800ml of S12195 + 0.01600ml of S12216 + 0.04000ml of S11832 + 199.93600ml of E3915 = Final Quantity: 200.000 ml |
|--------------------|---------------------------------------------------------------------------------------------------------------------|

|             |                                                                                                                                                                                                           |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|             | SOURCE                                                                                                                                                                                                    |
| <b>FROM</b> | 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 |

**FROM**



| <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 (CPI) | <a href="#">SP6774</a> | 04/28/2025       | 06/21/2025             | Jagrut Upadhyay    | None           | None             | Rahul Chavli<br>05/16/2025 |
| <b><u>FROM</u></b> 0.03350ml of S10104 + 0.05000ml of S11496 + 0.12500ml of S11832 + 0.12500ml of S12115 + 0.25000ml of S12271 + 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



| <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><u>FROM</u></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 | 07/01/2025      | 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 /            | 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             |



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-112090            | 440246          | ≤ -10 °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 ± 17.2         |
| 2-fluorophenol                | 367-12-4   | 99.8       | 10.7.3.3P        | 7513 ± 17.26        |
| phenol-d <sub>6</sub>         | 13127-88-3 | 99.9       | 949.120.8P       | 7481 ± 17.19        |
| 2,4,6-tribromophenol          | 118-79-6   | 99.8       | 12.1.6P          | 7469 ± 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.

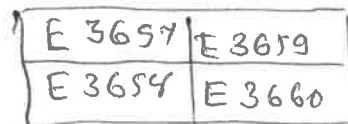
This document has been electronically produced and is valid without a signature.

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)



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                                                                  | $\leq 1.0$ ppm | 0.8 ppm    |
| Titration Acid ( $\mu\text{eq/g}$ )                                                        | $\leq 0.3$     | $< 0.1$    |
| Chloride (Cl)                                                                              | $\leq 10$ ppm  | $< 5$ ppm  |
| Water (by KF, coulometric)                                                                 | $\leq 0.02\%$  | $< 0.01\%$ |

For Laboratory, Research, or Manufacturing Use  
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States  
Packaging Site: Phillipsburg Mfg Ctr & DC

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



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)

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                                                                  | $\leq 1.0$ ppm | 0.8 ppm    |
| Titration Acid ( $\mu\text{eq/g}$ )                                                        | $\leq 0.3$     | $< 0.1$    |
| Chloride (Cl)                                                                              | $\leq 10$ ppm  | $< 5$ ppm  |
| Water (by KF, coulometric)                                                                 | $\leq 0.02\%$  | $< 0.01\%$ |

For Laboratory, Research, or Manufacturing Use  
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States  
Packaging Site: Phillipsburg Mfg Ctr & DC

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    |

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC

Sulfuric Acid

BAKER INSTRA-ANALYZED® Reagent

For Trace Metal Analysis

Low Selenium

 **avantors**™



Material No.: 9673-33

Batch No.: 2411262013

| Test                              | Specification    | Result      |
|-----------------------------------|------------------|-------------|
| Trace Impurities – Sodium (Na)    | $\leq 500.0$ ppb | $< 5.0$ ppb |
| Trace Impurities – Strontium (Sr) | $\leq 5.0$ ppb   | $< 1.0$ ppb |
| Trace Impurities – Tin (Sn)       | $\leq 5.0$ ppb   | 1.1 ppb     |
| Trace Impurities – Zinc (Zn)      | $\leq 5.0$ ppb   | $< 1.0$ ppb |

For Laboratory, Research, or Manufacturing Use

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC



Jamie Croak

Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC



5580 Skylane Blvd  
Santa Rosa, CA 95403

(707)525-5788  
(800)878-7654 Toll Free  
(707)545-7901 Fax

Manufacturer's Quality System  
Audited & Registered  
by TUV USA to ISO 9001:2015

Date Received: \_\_\_\_\_

## Certificate of Analysis

Rev 0

Page 1 of 1

|                     |                 |                 |                    |                   |                                                       |
|---------------------|-----------------|-----------------|--------------------|-------------------|-------------------------------------------------------|
| <b>Catalog No.:</b> | <b>Lot No.:</b> | <b>Storage:</b> | <b>Solvent:</b>    | <b>Exp. Date:</b> | <b>Description:</b>                                   |
| Z-110094-02         | 506889          | ≤ -10 °C        | Methylene Chloride | 7/25/2028         | CLP Base/Neutral Surrogate Solution, 5,000 mg/L, 1 ml |

| Compound                           | CAS No.   | Purity (%) | Compound Lot No. | Concentration, mg/L |
|------------------------------------|-----------|------------|------------------|---------------------|
| 1,2-dichlorobenzene-d <sub>4</sub> | 2199-69-1 | 99.7       | 247.29.3P        | 5035 ± 28.02        |
| 2-fluorobiphenyl                   | 321-60-8  | 99.69      | 8.286.1.1P       | 4999 ± 103.66       |
| nitrobenzene-d5                    | 4165-60-0 | 99.67      | 7.9.3P           | 4988 ± 27.32        |
| p-terphenyl-d14                    | 1718-51-0 | 99.3       | 9.120.8P         | 5005 ± 27.85        |

511494 } Y.P.  
↓  
511498 } 08/11/2023

\*Not a certified value

Certified By: 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.



110 Benner Circle  
Bellefonte, PA 16823-8812  
Tel: 1-814-353-1300  
Fax: 1-814-353-1309

www.restek.com

## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

gravimetric



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 555872 **Lot No.:** A0201728

**Description :** Custom Pentachlorophenol Standard  
Custom Pentachlorophenol Standard 25,000µg/mL, Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** September 30, 2026 **Storage:** 10°C or colder

**Ship:** Ambient

511649  
↓  
511658 } Y.P.  
11/13/23

### CERTIFIED VALUES

| Component # | Compound          | CAS #   | Lot #       | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|-------------|-------------------|---------|-------------|--------|-----------------------------|----------------------------------------|
| 1           | Pentachlorophenol | 87-86-5 | RP230530RSR | 99%    | 25,000.0 µg/mL              | +/- 777.0837                           |

**Solvent:** Methanol  
**CAS #** 67-56-1  
**Purity** 99%

Josh McCloskey - Operations Technician I

**Date Mixed:** 05-Sep-2023

**Balance:** B251644995

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ $\mu$ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

$k$  is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.





110 Benner Circle  
Bellefonte, PA 16823-8812  
Tel: 1-814-353-1300  
Fax: 1-814-353-1309

www.restek.com

## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

*chromatographic plus*



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31853      **Lot No.:** 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:**

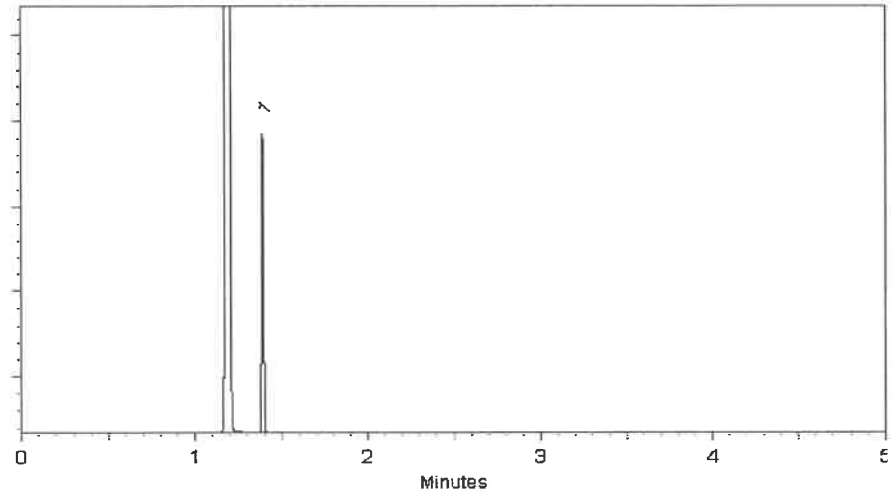
FID

**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.



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. :** 33913 **Lot No.:** A0201976  
**Description :** SOM01.0 SIM Analysis Standard  
SOM01.0 SIM Analysis Standard 2000µg/mL, Methylene chloride, 1mL /ampul  
**Container Size :** 2 mL **Pkg Amt:** > 1 mL  
**Expiration Date :** August 31, 2029 **Storage:** 10°C or colder  
**Handling:** Sonication required. Mix is photosensitive. **Ship:** Ambient

S11828  
↓  
S11832 } RC/  
11/30/23

## CERTIFIED VALUES

| Elution Order | Compound                | CAS #      | Lot #    | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|-------------------------|------------|----------|--------|-----------------------------|----------------------------------------|
| 1             | 2-Methylnaphthalene-d10 | 7297-45-2  | EF-135   | 98%    | 2,015.9 µg/mL               | +/- 90.8098                            |
| 2             | Fluoranthene-d10        | 93951-69-0 | PR-32557 | 99%    | 2,020.0 µg/mL               | +/- 90.9963                            |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

## Quality Confirmation Test

**Column:**

30m x 0.25mm x 0.25µm  
Rtx-5 (cat.#10223)

**Carrier Gas:**

hydrogen-constant pressure 10 psi.

**Temp. Program:**

75°C (hold 1 min.) to 330°C  
@ 20°C/min. (hold 10 min.)

**Inj. Temp:**

250°C

**Det. Temp:**

330°C

**Det. Type:**

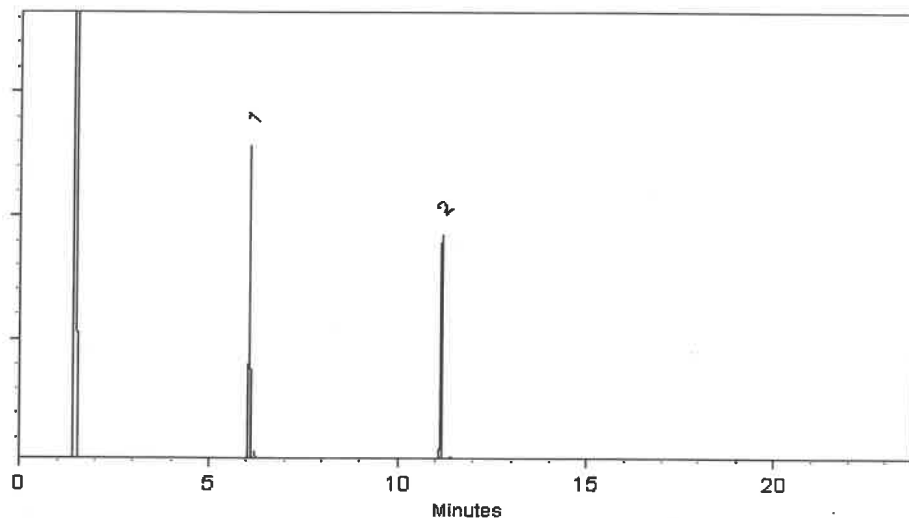
FID

**Split Vent:**

10 ml/min.

**Inj. Vol**

1µl

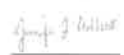


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

  
Dakota Parson - Operations Technician I

Date Mixed: 13-Sep-2023

Balance Serial # B442140311

  
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 28-Sep-2023

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

$k$  is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



5580 Skylane Blvd  
Santa Rosa, CA 95403

(707)525-5788  
(800)878-7654 Toll Free  
(707)545-7901 Fax

Manufacturer's Quality System  
Audited & Registered  
by TUV USA to ISO 9001:2015

Date Received: \_\_\_\_\_

## Certificate of Analysis

Rev 0

Page 1 of 1

| Catalog No.: | Lot No.: | Storage: | Solvent:     | Exp. Date: | Description:                             |                     |
|--------------|----------|----------|--------------|------------|------------------------------------------|---------------------|
| Z-020223-01  | 454157   | ≤ -10 °C | P/T Methanol | 6/10/2026  | 1,4-Dioxane Solution, 2000 mg/L,<br>1 mL |                     |
| Compound     |          |          | CAS No.      | Purity (%) | Compound Lot No.                         | Concentration, mg/L |
| 1,4-dioxane  |          |          | 123-91-1     | 100        | 223.1.3P                                 | 1997 ± 57.08        |

512112 } RC/  
↓  
912116 } 03/08/24

\*Not a certified value

Certified By: \_\_\_\_\_

Melissa Workoff  
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.  
Concentration (correct for purity) and uncertainty (95% confidence) values  
listed are determined gravimetrically.



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. :** 31087 **Lot No.:** A0206206  
**Description :** Acid Surrogate Mix (4/89 SOW)  
Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul  
**Container Size :** 5 mL **Pkg Amt:** > 5 mL  
**Expiration Date :** January 31, 2032 **Storage:** 10°C or colder  
**Ship:** Ambient

512187 } RC/  
↓ } 03/18/24  
512206 }

### CERTIFIED VALUES

| Elution Order | Compound             | CAS #      | Lot #       | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|----------------------|------------|-------------|--------|-----------------------------|----------------------------------------|
| 1             | 2-Fluorophenol       | 367-12-4   | STBK1705    | 99%    | 10,005.3 µg/mL              | +/- 302.5390                           |
| 2             | Phenol-d6            | 13127-88-3 | PR-33287A   | 99%    | 10,005.5 µg/mL              | +/- 302.5475                           |
| 3             | 2,4,6-Tribromophenol | 118-79-6   | RP230831RSR | 99%    | 10,006.6 µg/mL              | +/- 302.5783                           |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methanol  
**CAS #** 67-56-1  
**Purity** 99%



# Quality Confirmation Test

**Column:**

30m x 0.25mm x 0.25µm  
Rtx-5 (cat.#10223)

**Carrier Gas:**

hydrogen-constant pressure 10 psi.

**Temp. Program:**

40°C (hold 2 min.) to 330°C  
@ 10°C/min. (hold 10 min.)

**Inj. Temp:**

250°C

**Det. Temp:**

330°C

**Det. Type:**

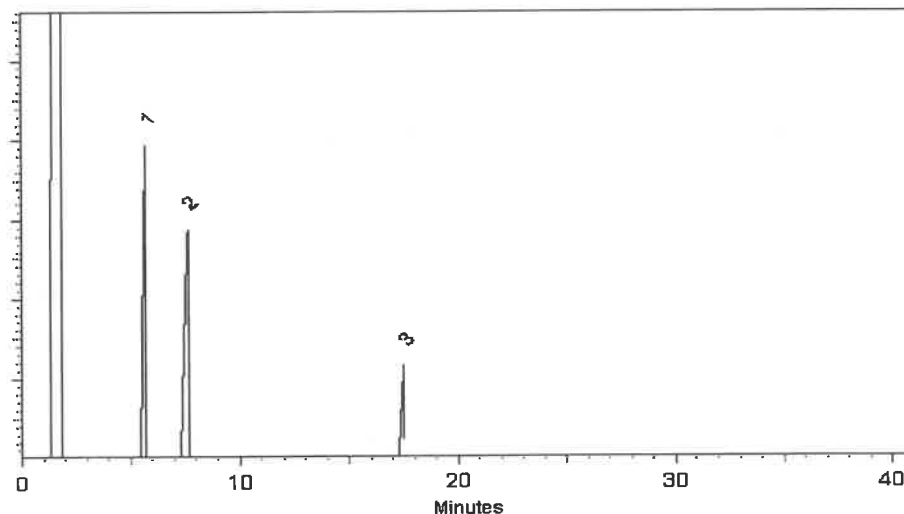
FID

**Split Vent:**

2 ml/min.

**Inj. Vol**

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

*Penelope S. Riglin*

Penelope Riglin - Operations Tech I

Date Mixed: 04-Jan-2024

Balance Serial # 1128360905

*Christie Mills*

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Jan-2024

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397



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. :** 31086 **Lot No.:** A0206381  
**Description :** B/N Surrogate Mix (4/89 SOW)  
Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul  
**Container Size :** 5 mL **Pkg Amt:** > 5 mL  
**Expiration Date :** December 31, 2029 **Storage:** 10°C or colder  
**Handling:** Sonicate prior to use. **Ship:** Ambient

S12207 } RC/  
↓  
S12221 } 03/18/24

### CERTIFIED VALUES

| Elution Order | Compound         | CAS #     | Lot #    | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|------------------|-----------|----------|--------|-----------------------------|----------------------------------------|
| 1             | Nitrobenzene-d5  | 4165-60-0 | I-25158  | 99%    | 5,029.3 µg/mL               | +/- 226.5204                           |
| 2             | 2-Fluorobiphenyl | 321-60-8  | 00021384 | 99%    | 5,030.9 µg/mL               | +/- 226.5936                           |
| 3             | p-Terphenyl-d14  | 1718-51-0 | PR-32599 | 99%    | 5,026.4 µg/mL               | +/- 226.3909                           |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

### Tech Tips:

Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

# Quality Confirmation Test

**Column:**

30m x 0.25mm x 0.25µm  
Rtx-S (cat.#10223)

**Carrier Gas:**

hydrogen-constant pressure 10 psi.

**Temp. Program:**

40°C (hold 2 min.) to 330°C  
@ 10°C/min. (hold 10 min.)

**Inj. Temp:**

250°C

**Det. Temp:**

330°C

**Det. Type:**

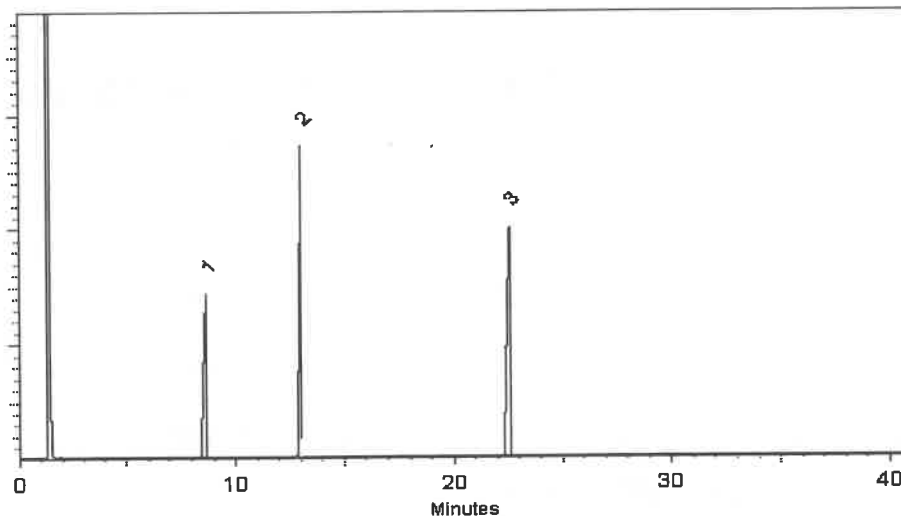
FID

**Split Vent:**

2 ml/min.

**Inj. Vol**

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024 Balance Serial # 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397



5580 Skylane Blvd  
Santa Rosa, CA 95403

(707)525-5788  
(800)878-7654 Toll Free  
(707)545-7901 Fax

Manufacturer's Quality System  
Audited & Registered  
by TUV USA to ISO 9001:2015

Date Received: \_\_\_\_\_

## Certificate of Analysis

Rev 0

Page 1 of 4

|                     |                 |                 |                    |                   |                                                                |
|---------------------|-----------------|-----------------|--------------------|-------------------|----------------------------------------------------------------|
| <b>Catalog No.:</b> | <b>Lot No.:</b> | <b>Storage:</b> | <b>Solvent:</b>    | <b>Exp. Date:</b> | <b>Description:</b>                                            |
| Z-110381-01         | 520963          | ≤ -10 °C        | Methylene Chloride | 10/10/2028        | Method 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1 mL |

| Compound                          | CAS No.  | Purity (%) | Compound Lot No. | Concentration, mg/L |
|-----------------------------------|----------|------------|------------------|---------------------|
| acenaphthene                      | 83-32-9  | 99.9       | 13.1.5P          | 1010 ± 9.89         |
| acenaphthylene                    | 208-96-8 | 97.6       | 14.290.1P        | 1014 ± 9.93         |
| aniline                           | 62-53-3  | 99.97      | 64.1.4P          | 1001 ± 9.8          |
| anthracene                        | 120-12-7 | 99.5       | 15.7.1P          | 999.6 ± 9.79        |
| azobenzene                        | 103-33-3 | 98.1       | 252.7.2P         | 999.1 ± 9.8         |
| benzo[a]anthracene                | 56-55-3  | 100        | 16.7.3P          | 1007 ± 9.86         |
| benzo[b]fluoranthene              | 205-99-2 | 99.8       | 17.421.3P        | 1011 ± 14.11        |
| benzo[k]fluoranthene              | 207-08-9 | 98.9       | 18.421.4P        | 1001 ± 10.96        |
| benzo[ghi]perylene                | 191-24-2 | 93         | 19.286.4P        | 999.6 ± 13.95       |
| benzo[a]pyrene                    | 50-32-8  | 97         | 20.286.2P        | 999.9 ± 22.24       |
| benzyl alcohol                    | 100-51-6 | 99.9       | 65.18.1P         | 1001 ± 9.82         |
| bis(2-chloroethoxy)methane        | 111-91-1 | 99.1       | 31.3.15P         | 1000 ± 14.69        |
| bis(2-chloroethyl)ether           | 111-44-4 | 99.8       | 32.7.1P          | 1003 ± 13.89        |
| bis(2-chloro-1-methylethyl) ether | 108-60-1 | 99.5       | 34.3.15P         | 999.4 ± 14.68       |
| bis(2-ethylhexyl)adipate          | 103-23-1 | 99.5       | 874.7.1P         | 999.5 ± 9.8         |
| bis(2-ethylhexyl)phthalate        | 117-81-7 | 99.4       | 33.29.1P         | 998.8 ± 17.03       |
| 4-bromophenyl phenyl ether        | 101-55-3 | 99.4       | 35.7.1.1P        | 1000 ± 13.85        |
| butyl benzyl phthalate            | 85-68-7  | 98.4       | 36.1.6P          | 984.7 ± 16.79       |
| carbazole                         | 86-74-8  | 99.4       | 239.7.2P         | 1000 ± 9.8          |

\*Not a certified value

512270 } RC/  
↓  
512274 } 05/24/24

*Kerry Kane*

Certified By: \_\_\_\_\_

Kerry Kane  
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.  
Concentration (correct for purity) and uncertainty (95% confidence) values  
listed are determined gravimetrically.

# Certificate of Analysis

Page 2 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

| Compound                   | CAS No.   | Purity (%) | Compound Lot No. | Concentration, mg/L |
|----------------------------|-----------|------------|------------------|---------------------|
| 4-chloroaniline            | 106-47-8  | 100        | 66.7.1P          | 1000 ± 9.79         |
| 4-chlorophenylphenyl ether | 7005-72-3 | 98         | 37.158.2P        | 1001 ± 17.07        |
| 4-chloro-3-methylphenol    | 59-50-7   | 99         | 102.1.2P         | 1006 ± 17.16        |
| 2-chloronaphthalene        | 91-58-7   | 99.9       | 42.7.6P          | 1000 ± 9.79         |
| 2-chlorophenol             | 95-57-8   | 99.8       | 103.7.1P         | 1007 ± 13.96        |
| chrysene                   | 218-01-9  | 96         | 21.286.2P        | 998.4 ± 12.85       |
| dibenz[a,h]anthracene      | 53-70-3   | 99.44      | 22.286.3P        | 1000 ± 9.74         |
| dibenzofuran               | 132-64-9  | 100        | 67.7.2.1P        | 1002 ± 9.77         |
| di-n-butyl phthalate       | 84-74-2   | 99.84      | 40.286.1P        | 1007 ± 24.48        |
| 1,2-dichlorobenzene        | 95-50-1   | 99.8       | 43.7.1P          | 1000 ± 9.79         |
| 1,3-dichlorobenzene        | 541-73-1  | 99.5       | 44.1.3P          | 999.4 ± 9.79        |
| 1,4-dichlorobenzene        | 106-46-7  | 99.9       | 45.29.2P         | 1000 ± 9.79         |
| 2,4-dichlorophenol         | 120-83-2  | 99.6       | 104.7.1.1P       | 1005 ± 13.93        |
| diethyl phthalate          | 84-66-2   | 99.8       | 38.7.1P          | 1011 ± 14           |
| 2,4-dimethylphenol         | 105-67-9  | 99.6       | 105.7.1.1P       | 1009 ± 13.98        |
| dimethyl phthalate         | 131-11-3  | 99.9       | 39.9.2P          | 996.5 ± 13.8        |
| 1,2-dinitrobenzene         | 528-29-0  | 99.86      | 86.7.3.1P        | 999.5 ± 9.75        |
| 1,3-dinitrobenzene         | 99-65-0   | 100        | 313.7.2P         | 998 ± 9.79          |
| 1,4-dinitrobenzene         | 100-25-4  | 100        | 907.7.1P         | 999.5 ± 9.8         |
| 2,4-dinitrophenol          | 51-28-5   | 99.9       | 106.1.6DP        | 1002 ± 13.89        |
| 2,4-dinitrotoluene         | 121-14-2  | 100        | 87.7.3P          | 999.8 ± 13.85       |
| 2,6-dinitrotoluene         | 606-20-2  | 99.4       | 88.7.2.1P        | 999.6 ± 13.85       |
| di-n-octyl phthalate       | 117-84-0  | 99.1       | 41.7.5P          | 991.6 ± 13.74       |
| diphenylamine              | 122-39-4  | 100        | 78.1.6P          | 998 ± 13.79         |
| 2,3,5,6-tetrachlorophenol  | 935-95-5  | 97         | 1112.286.1P      | 1004 ± 14.02        |
| fluoranthene               | 206-44-0  | 98.6       | 23.7.4P          | 999.6 ± 9.79        |
| fluorene                   | 86-73-7   | 98.4       | 24.7.1P          | 999.7 ± 9.79        |

\*Not a certified value

*Kerry Kane*

Certified By:

Kerry Kane  
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.  
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

# Certificate of Analysis

Page 3 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

| Compound                   | CAS No.  | Purity (%) | Compound Lot No. | Concentration, mg/L |
|----------------------------|----------|------------|------------------|---------------------|
| hexachlorobenzene          | 118-74-1 | 99         | 46.158.4P        | 999.9 ± 13.96       |
| hexachlorobutadiene        | 87-68-3  | 97.4       | 47.1.4P          | 1000 ± 9.79         |
| hexachlorocyclopentadiene  | 77-47-4  | 99.2       | 48.2.2P          | 1001 ± 9.8          |
| hexachloroethane           | 67-72-1  | 99.9       | 49.1.4P          | 1003 ± 9.82         |
| indeno[1,2,3-cd]pyrene     | 193-39-5 | 98         | 25.286.4P        | 999.4 ± 22.23       |
| isophorone                 | 78-59-1  | 98.9       | 90.1.4P          | 999.9 ± 13.85       |
| 2-methyl-4,6-dinitrophenol | 534-52-1 | 99.6       | 107.421.2DP      | 991 ± 24.09         |
| 1-methylnaphthalene        | 90-12-0  | 97.1       | 249.7.5P         | 999.2 ± 13.95       |
| 2-methylnaphthalene        | 91-57-6  | 97.4       | 68.7.2P          | 1006 ± 22.38        |
| 2-methylphenol             | 95-48-7  | 99.6       | 114.7.3P         | 1001 ± 13.87        |
| 3-methylphenol             | 108-39-4 | 99.1       | 115.7.4P         | 499.7 ± 6.92        |
| 4-methylphenol             | 106-44-5 | 99.5       | 116.7.1P         | 501.2 ± 6.94        |
| naphthalene                | 91-20-3  | 99.8       | 26.9.1P          | 1018 ± 9.97         |
| 2-nitroaniline             | 88-74-4  | 99.7       | 69.29.1P         | 999.6 ± 9.79        |
| 3-nitroaniline             | 99-09-2  | 100        | 70.7.3P          | 1000 ± 9.74         |
| 4-nitroaniline             | 100-01-6 | 99.7       | 71.29.1P         | 1001 ± 9.8          |
| nitrobenzene               | 98-95-3  | 100        | 94.7.1P          | 1000 ± 13.85        |
| 2-nitrophenol              | 88-75-5  | 99.1       | 108.29.1P        | 996.5 ± 13.81       |
| 4-nitrophenol              | 100-02-7 | 100        | 109.7.1P         | 1000 ± 13.82        |
| N-nitrosodimethylamine     | 62-75-9  | 99.5       | 57.3.19P         | 998.5 ± 14.67       |
| N-nitrosodi-n-propylamine  | 621-64-7 | 99.8       | 59.286.1P        | 996.8 ± 17          |
| pentachlorophenol          | 87-86-5  | 99         | 110.1.7P         | 1004 ± 13.92        |
| phenanthrene               | 85-01-8  | 99.7       | 27.1.5P          | 999 ± 12.87         |
| phenol                     | 108-95-2 | 100        | 112.7.1P         | 998.5 ± 13.8        |
| pyrene                     | 129-00-0 | 99.2       | 28.9.2P          | 998.9 ± 9.78        |
| pyridine                   | 110-86-1 | 100        | 101.24.1P        | 999 ± 9.73          |
| 2,3,4,6-Tetrachlorophenol  | 58-90-2  | 91.8       | 120.421.1P       | 996.5 ± 13.92       |

\*Not a certified value

*Kerry Kane*

Certified By:

Kerry Kane  
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.  
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

# Certificate of Analysis

Page 4 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

| <u>Compound</u>        | <u>CAS No.</u> | <u>Purity (%)</u> | <u>Compound Lot No.</u> | <u>Concentration, mg/L</u> |
|------------------------|----------------|-------------------|-------------------------|----------------------------|
| 1,2,4-trichlorobenzene | 120-82-1       | 99.6              | 54.29.1P                | 999.6 ± 9.79               |
| 2,4,5-trichlorophenol  | 95-95-4        | 96.5              | 121.7.1.1P              | 999.5 ± 13.85              |
| 2,4,6-trichlorophenol  | 88-06-2        | 99.6              | 113.7.1P                | 996 ± 13.8                 |

\*Not a certified value



Certified By: \_\_\_\_\_

Kerry Kane  
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.  
Concentration (correct for purity) and uncertainty (95% confidence) values  
listed are determined gravimetrically.



110 Benner Circle  
Bellefonte, PA 16823-8812  
Tel: 1-814-353-1300  
Fax: 1-814-353-1309

www.restek.com

## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

gravimetric



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 555223 **Lot No.:** A0214021

**Description :** Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** July 31, 2026 **Storage:** 10°C or colder

**Handling:** This product is photosensitive. **Ship:** Ambient

### CERTIFIED VALUES

| Component # | Compound               | CAS #     | Lot #      | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|-------------|------------------------|-----------|------------|--------|-----------------------------|----------------------------------------|
| 1           | 3,3'-Dichlorobenzidine | 91-94-1   | S240326RSR | 99%    | 1,004.0 µg/mL               | +/- 23.0487                            |
| 2           | Atrazine               | 1912-24-9 | 5FYWL      | 99%    | 1,005.0 µg/mL               | +/- 23.0717                            |
| 3           | Benzidine              | 92-87-5   | S240430RSR | 99%    | 1,006.0 µg/mL               | +/- 23.0947                            |
| 4           | epsilon-Caprolactam    | 105-60-2  | Y16H012    | 99%    | 1,000.0 µg/mL               | +/- 22.9569                            |

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

S12449 } RC/  
↓  
S12508 } 7/24/24

Rebecca Gingerich - Operations Tech II

**Date Mixed:** 18-Jul-2024

**Balance:** 1128353505

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397



## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

$k$  is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle  
Bellefonte, PA 16823-8812  
Tel: 1-814-353-1300  
Fax: 1-814-353-1309

www.restek.com

## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

gravimetric



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 555224 **Lot No.:** A0214017

**Description :** Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** July 31, 2026 **Storage:** 10°C or colder

**Ship:** Ambient

### CERTIFIED VALUES

| Component # | Compound                   | CAS #    | Lot #        | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|-------------|----------------------------|----------|--------------|--------|-----------------------------|----------------------------------------|
| 1           | 1,2,4,5-Tetrachlorobenzene | 95-94-3  | MKCT9480     | 99%    | 1,005.0 µg/mL               | +/- 29.541899                          |
| 2           | Acetophenone               | 98-86-2  | STBH8205     | 99%    | 1,005.0 µg/mL               | +/- 29.541899                          |
| 3           | Benzaldehyde               | 100-52-7 | RD231129RSRA | 99%    | 1,008.0 µg/mL               | +/- 29.630084                          |
| 4           | Benzoic acid               | 65-85-0  | MKCR2694     | 99%    | 1,010.0 µg/mL               | +/- 29.688874                          |
| 5           | Biphenyl                   | 92-52-4  | MKCS5928     | 99%    | 1,008.0 µg/mL               | +/- 29.630084                          |

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

S12509 } RC/  
↓  
S12568 } 7/24/24

  
Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024

Balance: 1128360905

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

$k$  is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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. :** 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:**

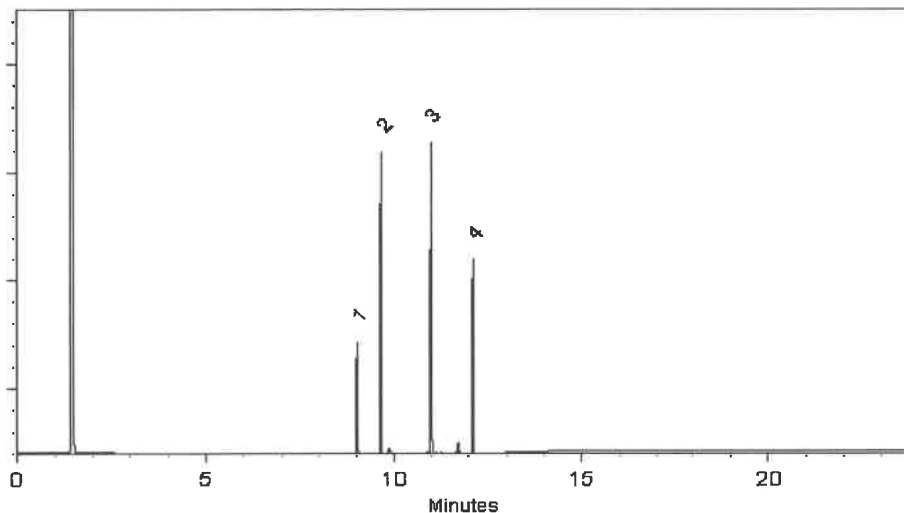
FID

**Split Vent:**

10 ml/min.

**Inj. Vol**

1µl

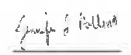


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

  
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



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. :** 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  
12/17/24

### CERTIFIED VALUES

| Elution Order | Compound                     | CAS #    | Lot #       | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|------------------------------|----------|-------------|--------|-----------------------------|----------------------------------------|
| 1             | Pyridine                     | 110-86-1 | SHBP6240    | 99%    | 1,008.3 µg/mL               | +/- 36.6849                            |
| 2             | N-Nitrosodimethylamine       | 62-75-9  | S240313RSR  | 99%    | 1,008.6 µg/mL               | +/- 36.6985                            |
| 3             | Phenol                       | 108-95-2 | MKCK1120    | 99%    | 1,003.5 µg/mL               | +/- 36.5120                            |
| 4             | Aniline                      | 62-53-3  | X22F726     | 99%    | 1,002.9 µg/mL               | +/- 36.4893                            |
| 5             | Bis(2-chloroethyl)ether      | 111-44-4 | 002891T24M  | 99%    | 1,003.0 µg/mL               | +/- 36.4938                            |
| 6             | 2-Chlorophenol               | 95-57-8  | STBJ3909    | 99%    | 1,005.6 µg/mL               | +/- 36.5894                            |
| 7             | 1,3-Dichlorobenzene          | 541-73-1 | BCCD5315    | 99%    | 1,004.1 µg/mL               | +/- 36.5348                            |
| 8             | 1,4-Dichlorobenzene          | 106-46-7 | MKBS7929V   | 99%    | 1,002.1 µg/mL               | +/- 36.4620                            |
| 9             | Benzyl alcohol               | 100-51-6 | SHBK5469    | 99%    | 1,003.5 µg/mL               | +/- 36.5120                            |
| 10            | 1,2-Dichlorobenzene          | 95-50-1  | SHBL6287    | 99%    | 1,005.3 µg/mL               | +/- 36.5757                            |
| 11            | 2-Methylphenol (o-cresol)    | 95-48-7  | SHBN7598    | 99%    | 1,008.4 µg/mL               | +/- 36.6894                            |
| 12            | 2,2'-oxybis(1-chloropropane) | 108-60-1 | 29-MAR-45-5 | 99%    | 1,004.6 µg/mL               | +/- 36.5530                            |
| 13            | 3-Methylphenol (m-cresol)    | 108-39-4 | STBJ0710    | 99%    | 502.1 µg/mL                 | +/- 18.2697                            |
| 14            | 4-Methylphenol (p-cresol)    | 106-44-5 | SHBN3411    | 99%    | 503.8 µg/mL                 | +/- 18.3288                            |
| 15            | N-Nitroso-di-n-propylamine   | 621-64-7 | N63MG       | 99%    | 1,006.5 µg/mL               | +/- 36.6212                            |
| 16            | Hexachloroethane             | 67-72-1  | DAXRI       | 99%    | 1,004.5 µg/mL               | +/- 36.5484                            |
| 17            | Nitrobenzene                 | 98-95-3  | 10224044    | 99%    | 1,002.5 µg/mL               | +/- 36.4757                            |



|    |                                               |           |                  |       |         |       |             |
|----|-----------------------------------------------|-----------|------------------|-------|---------|-------|-------------|
| 18 | Isophorone                                    | 78-59-1   | MKCR3249         | 99%   | 1,003.4 | µg/mL | +/- 36.5075 |
| 19 | 2-Nitrophenol                                 | 88-75-5   | RP230710         | 99%   | 1,002.5 | µg/mL | +/- 36.4757 |
| 20 | 2,4-Dimethylphenol                            | 105-67-9  | XW5GK            | 99%   | 1,006.5 | µg/mL | +/- 36.6212 |
| 21 | Bis(2-chloroethoxy)methane                    | 111-91-1  | 15705100         | 99%   | 1,006.6 | µg/mL | +/- 36.6257 |
| 22 | 2,4-Dichlorophenol                            | 120-83-2  | BCKK6969         | 99%   | 1,001.5 | µg/mL | +/- 36.4393 |
| 23 | 1,2,4-Trichlorobenzene                        | 120-82-1  | SHBP5900         | 99%   | 1,006.4 | µg/mL | +/- 36.6166 |
| 24 | Naphthalene                                   | 91-20-3   | STBL1057         | 99%   | 1,002.1 | µg/mL | +/- 36.4620 |
| 25 | 4-Chloroaniline                               | 106-47-8  | BCCJ3217         | 99%   | 1,004.4 | µg/mL | +/- 36.5439 |
| 26 | Hexachlorobutadiene                           | 87-68-3   | X05J             | 98%   | 1,002.5 | µg/mL | +/- 36.4771 |
| 27 | 4-Chloro-3-methylphenol                       | 59-50-7   | BCCD4461         | 99%   | 1,004.5 | µg/mL | +/- 36.5484 |
| 28 | 2-Methylnaphthalene                           | 91-57-6   | STBL3028         | 99%   | 1,000.0 | µg/mL | +/- 36.3847 |
| 29 | 1-Methylnaphthalene                           | 90-12-0   | 5234.00-8        | 98%   | 990.2   | µg/mL | +/- 36.0269 |
| 30 | Hexachlorocyclopentadiene                     | 77-47-4   | 099063I14L       | 98%   | 1,001.3 | µg/mL | +/- 36.4325 |
| 31 | 2,4,6-Trichlorophenol                         | 88-06-2   | STBK8870         | 99%   | 1,006.4 | µg/mL | +/- 36.6166 |
| 32 | 2,4,5-Trichlorophenol                         | 95-95-4   | 3YFRE            | 97%   | 1,004.6 | µg/mL | +/- 36.5505 |
| 33 | 2-Chloronaphthalene                           | 91-58-7   | RPN7O            | 99%   | 1,004.3 | µg/mL | +/- 36.5393 |
| 34 | 2-Nitroaniline                                | 88-74-4   | RP240715RSR      | 99%   | 1,004.4 | µg/mL | +/- 36.5439 |
| 35 | 1,4-Dinitrobenzene                            | 100-25-4  | RP240703RSR      | 99%   | 1,002.8 | µg/mL | +/- 36.4847 |
| 36 | Acenaphthylene                                | 208-96-8  | RP241029RSR      | 98%   | 1,000.0 | µg/mL | +/- 36.3835 |
| 37 | 1,3-Dinitrobenzene                            | 99-65-0   | TRC3-1075941-2-1 | 99%   | 1,006.3 | µg/mL | +/- 36.6121 |
| 38 | Dimethylphthalate                             | 131-11-3  | 358221L17K       | 99%   | 1,008.9 | µg/mL | +/- 36.7076 |
| 39 | 2,6-Dinitrotoluene                            | 606-20-2  | BCCG1833         | 99%   | 1,006.6 | µg/mL | +/- 36.6257 |
| 40 | 1,2-Dinitrobenzene                            | 528-29-0  | RP240701RSR      | 99%   | 1,002.5 | µg/mL | +/- 36.4757 |
| 41 | Acenaphthene                                  | 83-32-9   | MKCR7169         | 99%   | 1,000.0 | µg/mL | +/- 36.3847 |
| 42 | 3-Nitroaniline                                | 99-09-2   | RP240708RSR      | 99%   | 1,004.6 | µg/mL | +/- 36.5530 |
| 43 | 2,4-Dinitrophenol                             | 51-28-5   | D240927RSR       | ----% | 1,005.6 | µg/mL | +/- 36.5894 |
| 44 | Dibenzofuran                                  | 132-64-9  | MKCN1772         | 99%   | 1,003.5 | µg/mL | +/- 36.5120 |
| 45 | 2,4-Dinitrotoluene                            | 121-14-2  | 102869V26E       | 99%   | 1,008.3 | µg/mL | +/- 36.6849 |
| 46 | 4-Nitrophenol                                 | 100-02-7  | 20241029-2-AN    | 99%   | 1,004.8 | µg/mL | +/- 36.5575 |
| 47 | 2,3,4,6-Tetrachlorophenol                     | 58-90-2   | PR-34476         | 99%   | 1,005.8 | µg/mL | +/- 36.5939 |
| 48 | 2,3,5,6-Tetrachlorophenol                     | 935-95-5  | RP231219RSR      | 99%   | 1,006.4 | µg/mL | +/- 36.6166 |
| 49 | Fluorene                                      | 86-73-7   | 10246250         | 98%   | 1,000.7 | µg/mL | +/- 36.4102 |
| 50 | 4-Chlorophenyl phenyl ether                   | 7005-72-3 | MKCT7248         | 99%   | 1,004.9 | µg/mL | +/- 36.5621 |
| 51 | Diethylphthalate                              | 84-66-2   | BCCJ6241         | 99%   | 1,003.9 | µg/mL | +/- 36.5257 |
| 52 | 4-Nitroaniline                                | 100-01-6  | RP230111         | 99%   | 1,006.6 | µg/mL | +/- 36.6257 |
| 53 | 4,6-Dinitro-2-methylphenol (Dinitro-o-cresol) | 534-52-1  | S241008RSR       | 99%   | 1,001.3 | µg/mL | +/- 36.4302 |

|    |                            |          |              |     |         |       |             |
|----|----------------------------|----------|--------------|-----|---------|-------|-------------|
| 54 | Diphenylamine              | 122-39-4 | MKCT1512     | 99% | 1,003.0 | µg/mL | +/- 36.4938 |
| 55 | Azobenzene                 | 103-33-3 | BCKK0887     | 99% | 1,002.4 | µg/mL | +/- 36.4711 |
| 56 | 4-Bromophenyl phenyl ether | 101-55-3 | STBH6361     | 99% | 1,008.8 | µg/mL | +/- 36.7031 |
| 57 | Hexachlorobenzene          | 118-74-1 | 15458400     | 99% | 1,005.1 | µg/mL | +/- 36.5712 |
| 58 | Pentachlorophenol          | 87-86-5  | RP240517RSR  | 99% | 1,005.9 | µg/mL | +/- 36.5984 |
| 59 | Phenanthrene               | 85-01-8  | MKCT3391     | 99% | 1,004.9 | µg/mL | +/- 36.5621 |
| 60 | Anthracene                 | 120-12-7 | 101492T18R   | 99% | 1,005.1 | µg/mL | +/- 36.5712 |
| 61 | Carbazole                  | 86-74-8  | 15276700     | 99% | 1,005.4 | µg/mL | +/- 36.5803 |
| 62 | Di-n-butylphthalate        | 84-74-2  | MKCN4337     | 99% | 1,006.3 | µg/mL | +/- 36.6121 |
| 63 | Fluoranthene               | 206-44-0 | MKCQ4728     | 99% | 1,003.5 | µg/mL | +/- 36.5120 |
| 64 | Pyrene                     | 129-00-0 | BCKK2592     | 99% | 1,002.0 | µg/mL | +/- 36.4575 |
| 65 | Benzyl butyl phthalate     | 85-68-7  | X12I018      | 99% | 1,007.5 | µg/mL | +/- 36.6576 |
| 66 | Bis(2-ethylhexyl)adipate   | 103-23-1 | MKCM1988     | 99% | 1,005.9 | µg/mL | +/- 36.5984 |
| 67 | Benz(a)anthracene          | 56-55-3  | I70012022BAA | 99% | 1,005.5 | µg/mL | +/- 36.5848 |
| 68 | Chrysene                   | 218-01-9 | RP241007RSR  | 99% | 1,005.3 | µg/mL | +/- 36.5757 |
| 69 | Bis(2-ethylhexyl)phthalate | 117-81-7 | MKCS8065     | 99% | 1,007.5 | µg/mL | +/- 36.6576 |
| 70 | Di-n-octyl phthalate       | 117-84-0 | 15566400     | 99% | 1,002.3 | µg/mL | +/- 36.4666 |
| 71 | Benzo(b)fluoranthene       | 205-99-2 | 052013B      | 99% | 1,004.1 | µg/mL | +/- 36.5348 |
| 72 | Benzo(k)fluoranthene       | 207-08-9 | 012022K      | 99% | 1,002.8 | µg/mL | +/- 36.4847 |
| 73 | Benzo(a)pyrene             | 50-32-8  | NQLXA        | 98% | 1,006.2 | µg/mL | +/- 36.6108 |
| 74 | Indeno(1,2,3-cd)pyrene     | 193-39-5 | 12-JKL-118-9 | 97% | 1,001.8 | µg/mL | +/- 36.4490 |
| 75 | Dibenz(a,h)anthracene      | 53-70-3  | 2-ASA-59-1   | 99% | 1,003.3 | µg/mL | +/- 36.5029 |
| 76 | Benzo(g,h,i)perylene       | 191-24-2 | RP241014RSR  | 98% | 1,003.8 | µg/mL | +/- 36.5217 |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

#### **Tech Tips:**

N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.



# SHIPPING DOCUMENTS

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                          |                                                                                                                                                                                                                                                                                                                                                                                          |                        |                                                                                                                                                                                                                                                    |                                                                              |   |   |   |   |   |   |   |   |   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|---|---|---|---|---|---|---|---|---|
| <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: 1.5em;">Q2118</span><br>COC Number:                                                                                                                                                               |                                                                              |   |   |   |   |   |   |   |   |   |
| <b>CLIENT INFORMATION</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                          | <b>PROJECT INFORMATION</b>                                                                                                                                                                                                                                                                                                                                                               |                        | <b>BILLING INFORMATION</b>                                                                                                                                                                                                                         |                                                                              |   |   |   |   |   |   |   |   |   |
| COMPANY: Tetra Tech                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                          | PROJECT NAME: NWIRP Bethpage                                                                                                                                                                                                                                                                                                                                                             |                        | BILL TO: SEE CONTRACT PO#                                                                                                                                                                                                                          |                                                                              |   |   |   |   |   |   |   |   |   |
| ADDRESS: 4433 Corporation Lane Suite 300                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                          | PROJECT #: 112G08005-WE13 LOCATION: VPB-182                                                                                                                                                                                                                                                                                                                                              |                        | ADDRESS:                                                                                                                                                                                                                                           |                                                                              |   |   |   |   |   |   |   |   |   |
| CITY: Virginia Beach STATE: VA ZIP: 23462                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                          | PROJECT MANAGER: Ernie Wu                                                                                                                                                                                                                                                                                                                                                                |                        | CITY: STATE: ZIP:                                                                                                                                                                                                                                  |                                                                              |   |   |   |   |   |   |   |   |   |
| ATTENTION: Ernie Wu                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                          | E-MAIL: ernie.wu@tetratech.com                                                                                                                                                                                                                                                                                                                                                           |                        | ATTENTION: PHONE:                                                                                                                                                                                                                                  |                                                                              |   |   |   |   |   |   |   |   |   |
| PHONE: 757-466-4901 FAX: 757-461-4148                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                          | PHONE: 757-466-4901 FAX: 757-461-4148                                                                                                                                                                                                                                                                                                                                                    |                        |                                                                                                                                                                                                                                                    |                                                                              |   |   |   |   |   |   |   |   |   |
| <b>DATA TURNAROUND INFORMATION</b>                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                          | <b>DATA DELIVERABLE INFORMATION</b>                                                                                                                                                                                                                                                                                                                                                      |                        | <b>ANALYSIS</b>                                                                                                                                                                                                                                    |                                                                              |   |   |   |   |   |   |   |   |   |
| FAX: 2 & 10 DAYS*<br>HARD COPY: 2 & 10 DAYS*<br>EDD: 2 & 10 DAYS*<br>* TO BE APPROVED BY CHEMTECH<br>STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS                                                                                                                                                                                                                                                                                                                            |                                          | <input type="checkbox"/> 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 |                        | VOC(SW846-8260B)<br>1,4 Dioxane (8270 SIM)<br><table border="1" style="width:100%; border-collapse: collapse; text-align: center;"> <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> </tr> </table> |                                                                              | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2                                        | 3                                                                                                                                                                                                                                                                                                                                                                                        | 4                      | 5                                                                                                                                                                                                                                                  | 6                                                                            | 7 | 8 | 9 |   |   |   |   |   |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                          |                                                                                                                                                                                                                                                                                                                                                                                          |                        | <b>PRESERVATIVES</b>                                                                                                                                                                                                                               |                                                                              |   |   |   |   |   |   |   |   |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                          |                                                                                                                                                                                                                                                                                                                                                                                          |                        | <b>COMMENTS</b>                                                                                                                                                                                                                                    |                                                                              |   |   |   |   |   |   |   |   |   |
| <b>CHEMTECH<br/>SAMPLE<br/>ID</b>                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>PROJECT<br/>SAMPLE IDENTIFICATION</b> | <b>SAMPLE<br/>MATRIX</b>                                                                                                                                                                                                                                                                                                                                                                 | <b>SAMPLE<br/>TYPE</b> | <b>SAMPLE<br/>COLLECTION</b>                                                                                                                                                                                                                       | <b># of Bottles</b>                                                          |   |   |   |   |   |   |   |   |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                          |                                                                                                                                                                                                                                                                                                                                                                                          | COMP GRAB              | DATE TIME                                                                                                                                                                                                                                          |                                                                              |   |   |   |   |   |   |   |   |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                          |                                                                                                                                                                                                                                                                                                                                                                                          |                        |                                                                                                                                                                                                                                                    | A F                                                                          |   |   |   |   |   |   |   |   |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                          |                                                                                                                                                                                                                                                                                                                                                                                          |                        |                                                                                                                                                                                                                                                    | 1 2 3 4 5 6 7 8 9                                                            |   |   |   |   |   |   |   |   |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                          |                                                                                                                                                                                                                                                                                                                                                                                          |                        |                                                                                                                                                                                                                                                    | <-- Specify Preservatives<br>A-HCl B-HNO3<br>C-H2SO4 D-NaOH<br>E-ICE F-Other |   |   |   |   |   |   |   |   |   |
| 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | BP-VPB-182-TB-20250520                   | QA                                                                                                                                                                                                                                                                                                                                                                                       | X                      | 5/20/25 8:00                                                                                                                                                                                                                                       | 2 2                                                                          |   |   |   |   |   |   |   |   |   |
| 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | BP-VPB-182-GW-420-422                    | AQ                                                                                                                                                                                                                                                                                                                                                                                       | X                      | 5/20/25 10:15                                                                                                                                                                                                                                      | 3 2 1                                                                        |   |   |   |   |   |   |   |   |   |
| 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | BP-VPB-182-GW-450-452                    | AQ                                                                                                                                                                                                                                                                                                                                                                                       | X                      | 5/20/25 14:15                                                                                                                                                                                                                                      | 2 2                                                                          |   |   |   |   |   |   |   |   |   |
| 4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | BP-VPB-182-DUP-20250520                  | AQ                                                                                                                                                                                                                                                                                                                                                                                       | X                      | 5/20/25 12:00                                                                                                                                                                                                                                      | 2 2                                                                          |   |   |   |   |   |   |   |   |   |
| 5.                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | BP-VPB-182-GW-460-462                    | AQ                                                                                                                                                                                                                                                                                                                                                                                       | X                      | 5/21/25 10:10                                                                                                                                                                                                                                      | 3 2 1                                                                        |   |   |   |   |   |   |   |   |   |
| 6.                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | BP-VPB-182-GW-480-482                    | AQ                                                                                                                                                                                                                                                                                                                                                                                       | X                      | 5/21/25 12:30                                                                                                                                                                                                                                      | 2 2                                                                          |   |   |   |   |   |   |   |   |   |
| 7.                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | BP-VPB-182-GW-500-502                    | AQ                                                                                                                                                                                                                                                                                                                                                                                       | X                      | 5/21/25 14:30                                                                                                                                                                                                                                      | 5 4 1                                                                        |   |   |   |   |   |   |   |   |   |
| 8.                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | BP-VPB-182-GW-520-522                    | AQ                                                                                                                                                                                                                                                                                                                                                                                       | X                      | 5/22/25 10:05                                                                                                                                                                                                                                      | 4 4                                                                          |   |   |   |   |   |   |   |   |   |
| 9.                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | BP-VPB-182-GW-540-542                    | QA                                                                                                                                                                                                                                                                                                                                                                                       | X                      | 5/22/25 12:03                                                                                                                                                                                                                                      | 3 2 1                                                                        |   |   |   |   |   |   |   |   |   |
| 10.                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | BP-VPB-182-GW-560-562                    | QA                                                                                                                                                                                                                                                                                                                                                                                       | X                      | 5/22/25 13:53                                                                                                                                                                                                                                      | 3 3                                                                          |   |   |   |   |   |   |   |   |   |
| <b>SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE PROSESSION INCLUDING COURIER DELIVERY</b>                                                                                                                                                                                                                                                                                                                                                                |                                          |                                                                                                                                                                                                                                                                                                                                                                                          |                        |                                                                                                                                                                                                                                                    |                                                                              |   |   |   |   |   |   |   |   |   |
| RELINQUISHED BY SAMPLER                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                          | DATE/TIME                                                                                                                                                                                                                                                                                                                                                                                |                        | RECEIVED BY                                                                                                                                                                                                                                        |                                                                              |   |   |   |   |   |   |   |   |   |
| 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                          | 5/22/25                                                                                                                                                                                                                                                                                                                                                                                  |                        | 1.  5-22-25                                                                                                                                                                                                                                        |                                                                              |   |   |   |   |   |   |   |   |   |
| RELINQUISHED BY                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                          | DATE/TIME                                                                                                                                                                                                                                                                                                                                                                                |                        | RECEIVED BY                                                                                                                                                                                                                                        |                                                                              |   |   |   |   |   |   |   |   |   |
| 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                          |                                                                                                                                                                                                                                                                                                                                                                                          |                        | 2.                                                                                                                                                                                                                                                 |                                                                              |   |   |   |   |   |   |   |   |   |
| RELINQUISHED BY                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                          | DATE/TIME                                                                                                                                                                                                                                                                                                                                                                                |                        | RECEIVED FOR LAB BY                                                                                                                                                                                                                                |                                                                              |   |   |   |   |   |   |   |   |   |
| 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                          | 5-22-25                                                                                                                                                                                                                                                                                                                                                                                  |                        | 3.                                                                                                                                                                                                                                                 |                                                                              |   |   |   |   |   |   |   |   |   |
| Conditions of bottles or coolers at receipt: <input type="checkbox"/> q Compliant <input type="checkbox"/> q Non Compliant <input type="checkbox"/> q Cooler Temp <span style="font-size: 1.2em;">3.4°C</span><br>MeOH extraction requires an additional 4oz. Jar for percent solid <input type="checkbox"/> q Ice in<br>Cooler?: _____<br>Comments: 5-DAY TAT - For VOC's see worksheet #15 of SAP 2018 for VPB program VOC list<br>10-DAY TAT - For 1,4 Dioxane (8270 SIM) |                                          |                                                                                                                                                                                                                                                                                                                                                                                          |                        |                                                                                                                                                                                                                                                    |                                                                              |   |   |   |   |   |   |   |   |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                          |                                                                                                                                                                                                                                                                                                                                                                                          |                        | SHIPPED VIA: CLIENT: <input type="checkbox"/> Hand Delivered <input type="checkbox"/> Overnight<br>CHEMTECH: <input type="checkbox"/> Picked Up <input type="checkbox"/> Overnight                                                                 |                                                                              |   |   |   |   |   |   |   |   |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                          |                                                                                                                                                                                                                                                                                                                                                                                          |                        | Page <u>1</u> of <u>1</u><br><b>Shipment Complete</b><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       |



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

## LOGIN REPORT/SAMPLE TRANSFER

**Order ID :** Q2118 TETR06

**Order Date :** 5/22/2025 3:57:00 PM

**Project Mgr :** Yazmeen

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

**Project Name :** NWIRP Bethpage 112G080

**Report Type :** Level 4

**Client Contact :** Ernie Wu

**Receive DateTime :** 5/22/2025 7:45:00 PM

**EDD Type :** ADAPT

**Invoice Name :** Tetra Tech NUS, Inc.

**Purchase Order :**

**Hard Copy Date :**

**Invoice Contact :** Ernie Wu

**Date Signoff :** 5/23/2025 11:36:06 AM

| LAB ID   | CLIENT ID               | MATRIX | SAMPLE DATE | SAMPLE TIME | TEST         | TEST GROUP | METHOD   | FAX DATE    | DUE DATES  |
|----------|-------------------------|--------|-------------|-------------|--------------|------------|----------|-------------|------------|
| Q2118-01 | BP-VPB-182-TB-20250520  | Water  | 05/20/2025  | 08:00       |              |            |          |             |            |
|          |                         |        |             |             | VOCMS Group1 |            | 8260-Low | 2 Bus. Days | 05/27/2025 |
| Q2118-02 | BP-VPB-182-GW-420-422   | Water  | 05/20/2025  | 10:15       |              |            |          |             |            |
|          |                         |        |             |             | VOCMS Group1 |            | 8260-Low | 2 Bus. Days | 05/27/2025 |
| Q2118-03 | BP-VPB-182-GW-450-452   | Water  | 05/20/2025  | 14:15       |              |            |          |             |            |
|          |                         |        |             |             | VOCMS Group1 |            | 8260-Low | 2 Bus. Days | 05/27/2025 |
| Q2118-04 | BP-VPB-182-DUP-20250520 | Water  | 05/20/2025  | 12:00       |              |            |          |             |            |
|          |                         |        |             |             | VOCMS Group1 |            | 8260-Low | 2 Bus. Days | 05/27/2025 |
| Q2118-05 | BP-VPB-182-GW-460-462   | Water  | 05/21/2025  | 10:10       |              |            |          |             |            |
|          |                         |        |             |             | VOCMS Group1 |            | 8260-Low | 2 Bus. Days | 05/27/2025 |
| Q2118-06 | BP-VPB-182-GW-480-482   | Water  | 05/21/2025  | 12:30       |              |            |          |             |            |
|          |                         |        |             |             | VOCMS Group1 |            | 8260-Low | 2 Bus. Days | 05/27/2025 |
| Q2118-08 | BP-VPB-182-GW-520-522   | Water  | 05/22/2025  | 10:05       |              |            |          |             |            |
|          |                         |        |             |             | VOCMS Group1 |            | 8260-Low | 2 Bus. Days | 05/27/2025 |
| Q2118-09 | BP-VPB-182-GW-540-542   | Water  | 05/22/2025  | 12:03       |              |            |          |             |            |



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

### LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2118 TETR06

Order Date : 5/22/2025 3:57:00 PM

Project Mgr : Yazmeen

Client Name : Tetra Tech NUS, Inc.

Project Name : NWIRP Bethpage 112G080

Report Type : Level 4

Client Contact : Ernie Wu

Receive DateTime : 5/22/2025 7:45:00 PM

EDD Type : ADAPT

Invoice Name : Tetra Tech NUS, Inc.

Purchase Order :

Hard Copy Date :

Invoice Contact : Ernie Wu

Date Signoff : 5/23/2025 11:36:06 AM

| LAB ID   | CLIENT ID             | MATRIX | SAMPLE<br>DATE | SAMPLE<br>TIME | TEST         | TEST GROUP | METHOD   | FAX DATE    | DUE<br>DATES |
|----------|-----------------------|--------|----------------|----------------|--------------|------------|----------|-------------|--------------|
|          |                       |        |                |                | VOCMS Group1 |            | 8260-Low | 2 Bus. Days | 05/27/2025   |
| Q2118-10 | BP-VPB-182-GW-560-562 | Water  | 05/22/2025     | 13:53          |              |            |          |             |              |
|          |                       |        |                |                | VOCMS Group1 |            | 8260-Low | 2 Bus. Days | 05/27/2025   |
| Q2118-11 | BP-VPB-182-GW-500-502 | Solid  | 05/21/2025     | 14:30          |              |            |          |             |              |
|          |                       |        |                |                | VOCMS Group1 |            | 8260D    | 2 Bus. Days | 05/27/2025   |

Relinquished By :

Date / Time :

CP  
5/22/25

Received By :

Date / Time :

5/22/25

Storage Area : VOA Refridgerator Room

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN051425\  
 Data File : BN037000.D  
 Acq On : 13 May 2025 18:17  
 Operator : RC/JU  
 Sample : SSTDICC0.2  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC0.2

Quant Time: May 14 11:00:10 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN051425.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 14 10:57:36 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.618  | 152  | 2140     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.404 | 136  | 5637     | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 14.266 | 164  | 3174     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 17.009 | 188  | 6255     | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 21.206 | 240  | 5420     | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.415 | 264  | 5487     | 0.400 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.213  | 112  | 1178     | 0.210 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.795  | 99   | 1395     | 0.199 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.771  | 82   | 1080     | 0.176 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.996 | 152  | 1543     | 0.194 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.767 | 330  | 267      | 0.192 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.888 | 172  | 2858     | 0.197 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 19.049 | 212  | 3232     | 0.188 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.658 | 244  | 2287     | 0.197 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
|                               |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.140  | 88   | 546      | 0.208 | ng    | 97       |
| 3) n-Nitrosodimethylamine     | 3.458  | 42   | 1042     | 0.185 | ng    | # 95     |
| 6) bis(2-Chloroethyl)ether    | 7.048  | 93   | 1244     | 0.193 | ng    | 99       |
| 9) Naphthalene                | 10.447 | 128  | 3213     | 0.193 | ng    | 99       |
| 10) Hexachlorobutadiene       | 10.746 | 225  | 698      | 0.200 | ng    | # 99     |
| 12) 2-Methylnaphthalene       | 12.072 | 142  | 2041     | 0.191 | ng    | 99       |
| 16) Acenaphthylene            | 13.978 | 152  | 2917     | 0.189 | ng    | 99       |
| 17) Acenaphthene              | 14.331 | 154  | 1950     | 0.193 | ng    | 99       |
| 18) Fluorene                  | 15.325 | 166  | 2509     | 0.189 | ng    | 99       |
| 20) 4,6-Dinitro-2-methylph... | 15.410 | 198  | 187      | 0.167 | ng    | # 48     |
| 21) 4-Bromophenyl-phenylether | 16.214 | 248  | 770      | 0.195 | ng    | 99       |
| 22) Hexachlorobenzene         | 16.326 | 284  | 840      | 0.199 | ng    | 98       |
| 23) Atrazine                  | 16.487 | 200  | 647      | 0.188 | ng    | 98       |
| 24) Pentachlorophenol         | 16.673 | 266  | 419      | 0.178 | ng    | 98       |
| 25) Phenanthrene              | 17.058 | 178  | 3977     | 0.195 | ng    | 100      |
| 26) Anthracene                | 17.145 | 178  | 3452     | 0.186 | ng    | 99       |
| 28) Fluoranthene              | 19.082 | 202  | 4499     | 0.184 | ng    | 99       |
| 30) Pyrene                    | 19.444 | 202  | 4629     | 0.200 | ng    | 100      |
| 32) Benzo(a)anthracene        | 21.197 | 228  | 3882     | 0.190 | ng    | 98       |
| 33) Chrysene                  | 21.251 | 228  | 4226     | 0.196 | ng    | 98       |
| 34) Bis(2-ethylhexyl)phtha... | 21.135 | 149  | 2490     | 0.198 | ng    | 99       |
| 36) Indeno(1,2,3-cd)pyrene    | 25.628 | 276  | 4426     | 0.198 | ng    | 99       |
| 37) Benzo(b)fluoranthene      | 22.798 | 252  | 4219     | 0.185 | ng    | 93       |
| 38) Benzo(k)fluoranthene      | 22.798 | 252  | 4219     | 0.188 | ng    | # 91     |
| 39) Benzo(a)pyrene            | 23.322 | 252  | 3685     | 0.191 | ng    | # 88     |
| 40) Dibenzo(a,h)anthracene    | 25.646 | 278  | 3380     | 0.194 | ng    | 94       |
| 41) Benzo(g,h,i)perylene      | 26.301 | 276  | 3861     | 0.204 | ng    | 96       |
| -----                         |        |      |          |       |       |          |

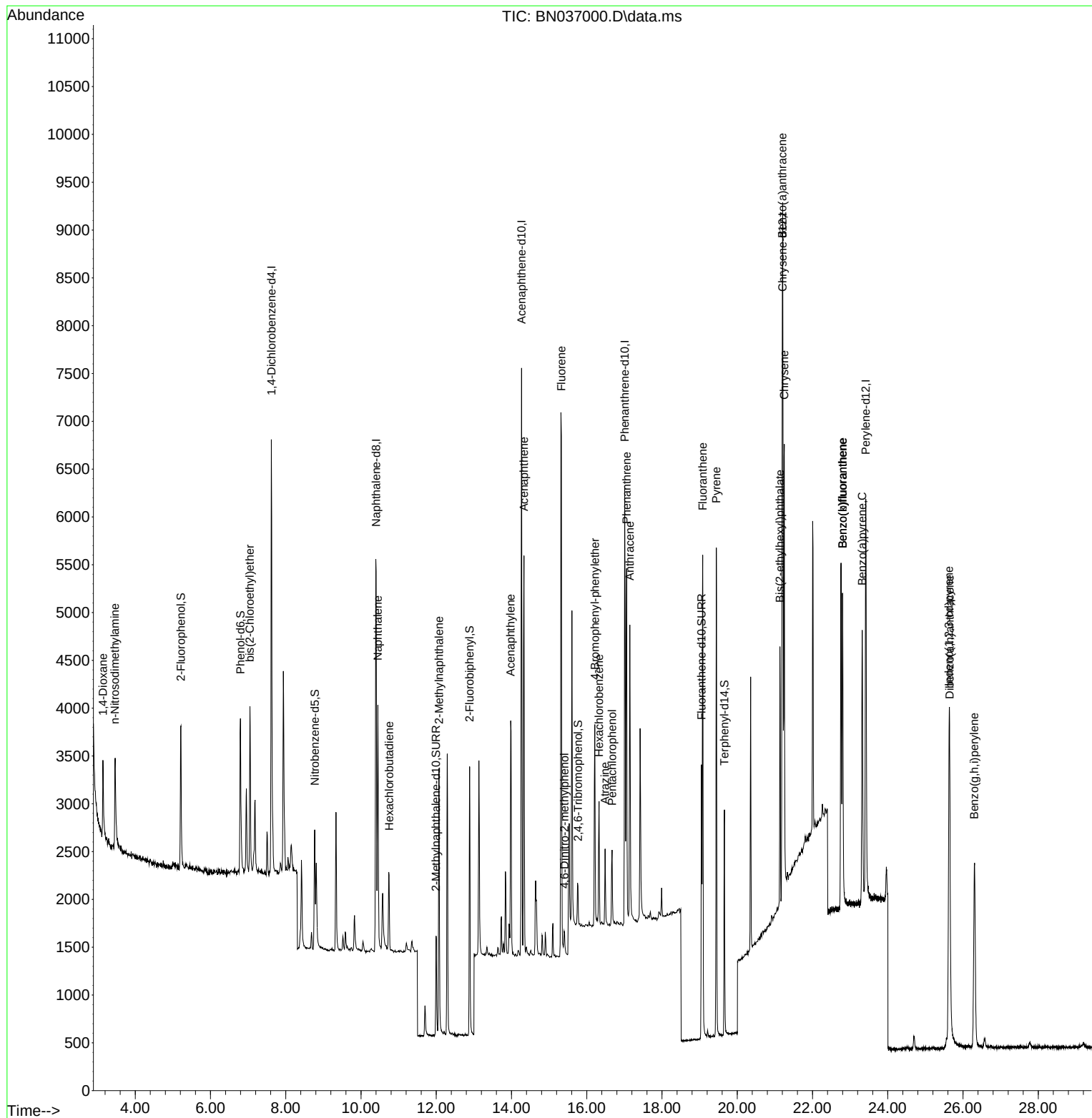
(#) = qualifier out of range (m) = manual integration (+) = signals summed

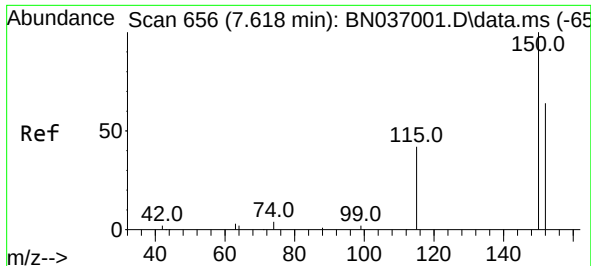


Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN051425\  
Data File : BN037000.D  
Acq On : 13 May 2025 18:17  
Operator : RC/JU  
Sample : SSTDICC0.2  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

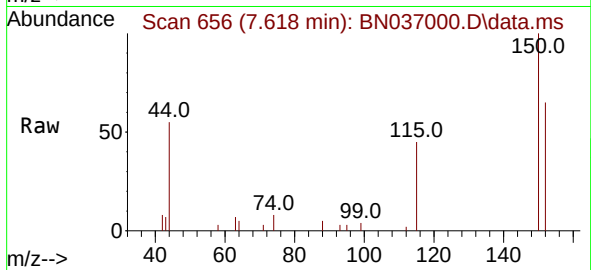
Quant Time: May 14 11:00:10 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN051425.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed May 14 10:57:36 2025  
Response via : Initial Calibration



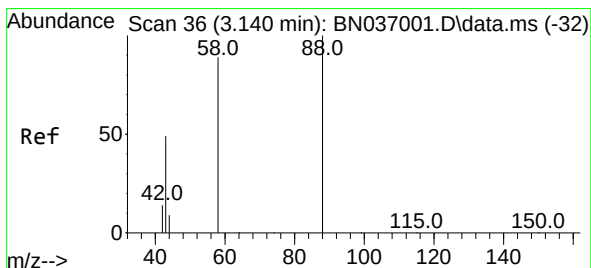
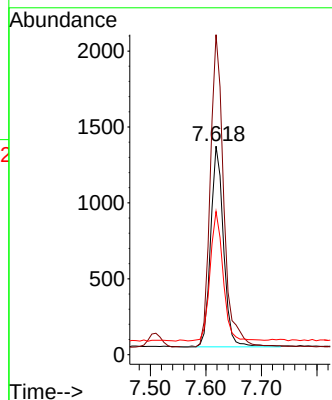
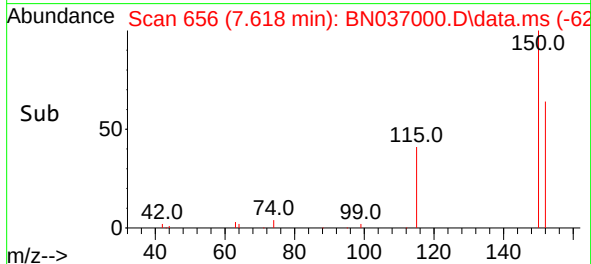


#1  
 1,4-Dichlorobenzene-d4  
 Concen: 0.400 ng  
 RT: 7.618 min Scan# 61  
 Delta R.T. 0.000 min  
 Lab File: BN037000.D  
 Acq: 13 May 2025 18:17

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC0.2

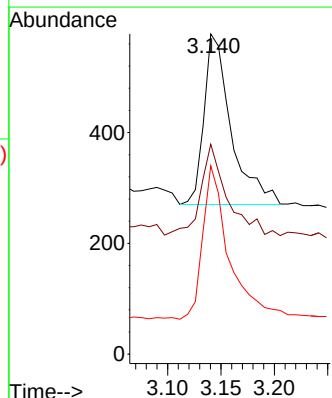
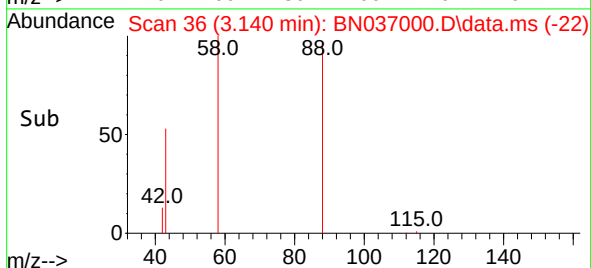
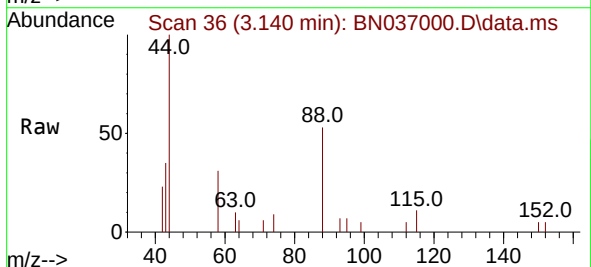


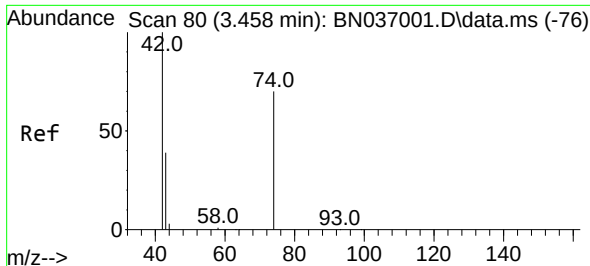
Tgt Ion:152 Resp: 2140  
 Ion Ratio Lower Upper  
 152 100  
 150 153.5 123.9 185.9  
 115 68.7 55.8 83.8



#2  
 1,4-Dioxane  
 Concen: 0.208 ng  
 RT: 3.140 min Scan# 36  
 Delta R.T. 0.000 min  
 Lab File: BN037000.D  
 Acq: 13 May 2025 18:17

Tgt Ion: 88 Resp: 546  
 Ion Ratio Lower Upper  
 88 100  
 43 52.4 37.4 56.0  
 58 85.7 68.8 103.2

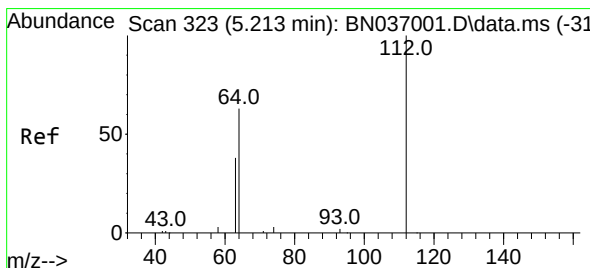
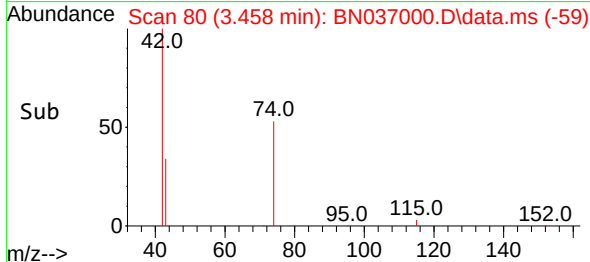
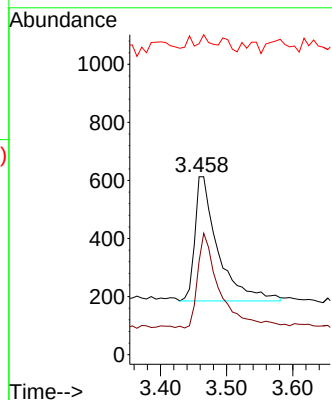
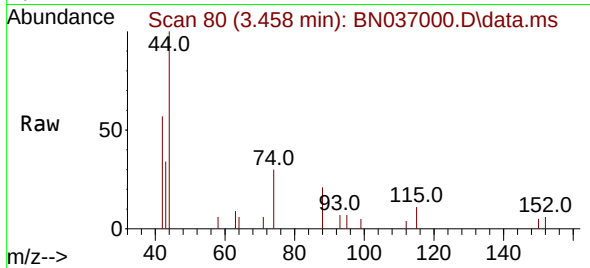




#3  
n-Nitrosodimethylamine  
Concen: 0.185 ng  
RT: 3.458 min Scan# 80  
Delta R.T. -0.000 min  
Lab File: BN037000.D  
Acq: 13 May 2025 18:17

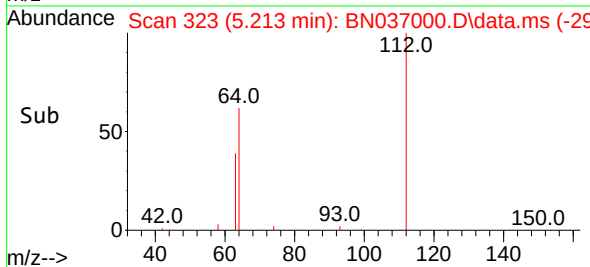
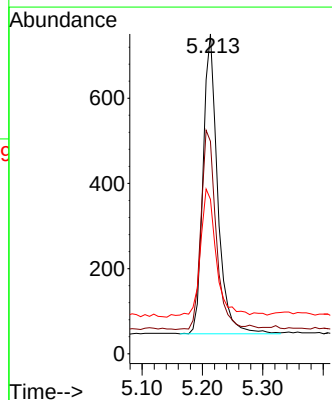
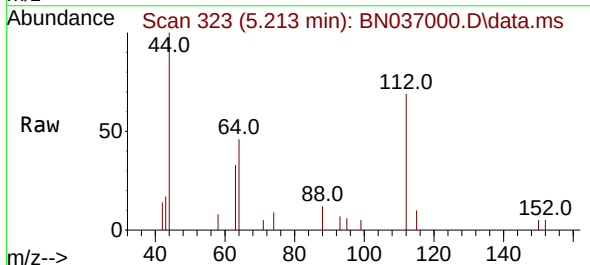
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

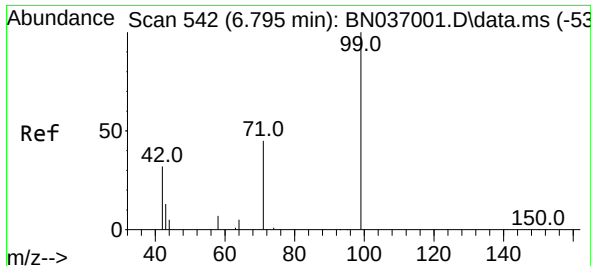
Tgt Ion: 42 Resp: 1042  
Ion Ratio Lower Upper  
42 100  
74 72.6 59.8 89.6  
44 7.5 11.9 17.9#



#4  
2-Fluorophenol  
Concen: 0.210 ng  
RT: 5.213 min Scan# 323  
Delta R.T. 0.000 min  
Lab File: BN037000.D  
Acq: 13 May 2025 18:17

Tgt Ion: 112 Resp: 1178  
Ion Ratio Lower Upper  
112 100  
64 68.7 55.7 83.5  
63 47.2 34.6 51.8

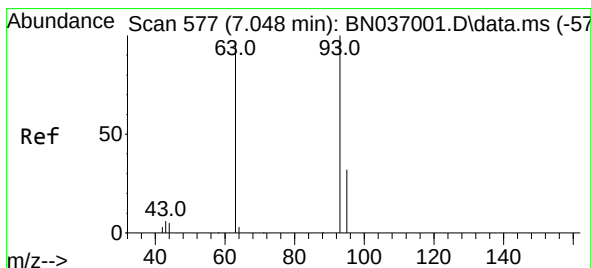
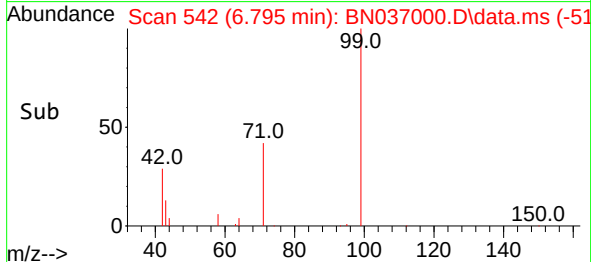
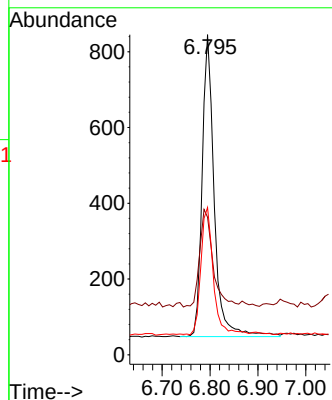
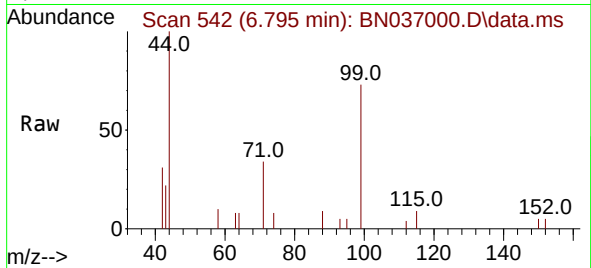




#5  
Phenol-d6  
Concen: 0.199 ng  
RT: 6.795 min Scan# 542  
Delta R.T. -0.000 min  
Lab File: BN037000.D  
Acq: 13 May 2025 18:17

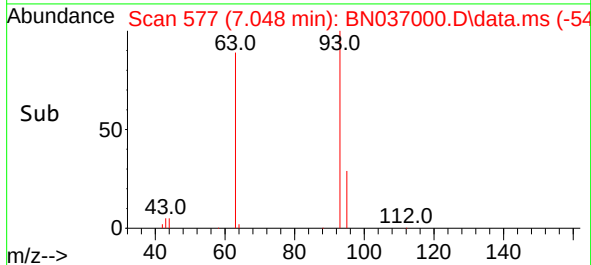
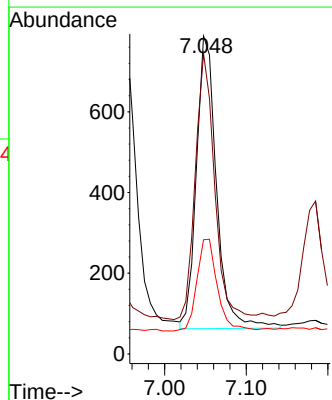
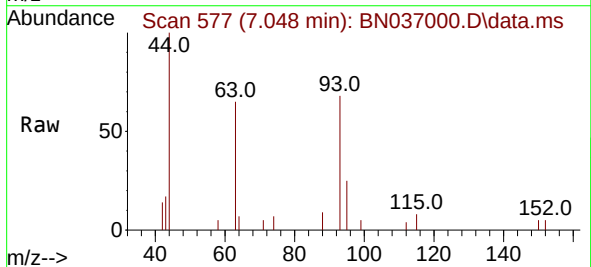
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

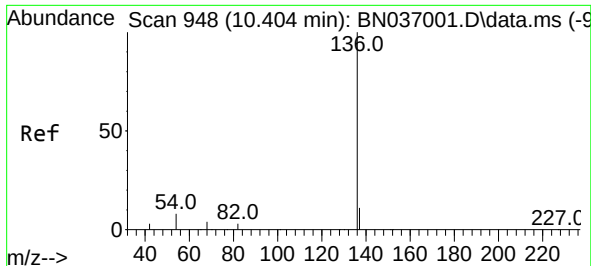
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 99    | Resp: | 1395  |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 34.2  | 29.3  | 43.9  |
| 71       | 42.7  | 35.7  | 53.5  |



#6  
bis(2-Chloroethyl)ether  
Concen: 0.193 ng  
RT: 7.048 min Scan# 577  
Delta R.T. -0.000 min  
Lab File: BN037000.D  
Acq: 13 May 2025 18:17

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 93    | Resp: | 1244  |
| Ion      | Ratio | Lower | Upper |
| 93       | 100   |       |       |
| 63       | 86.9  | 70.1  | 105.1 |
| 95       | 31.8  | 26.2  | 39.2  |

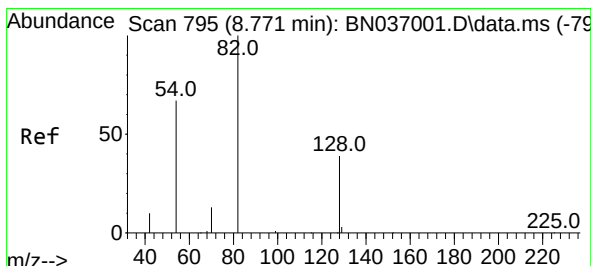
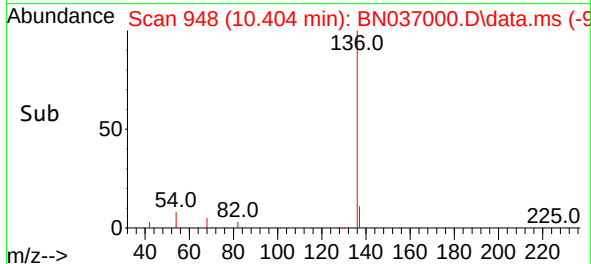
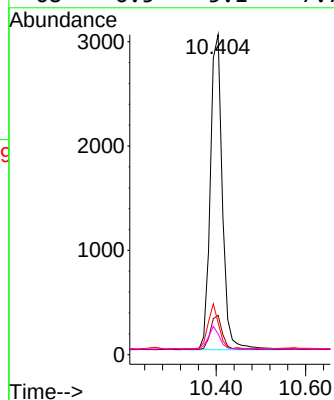
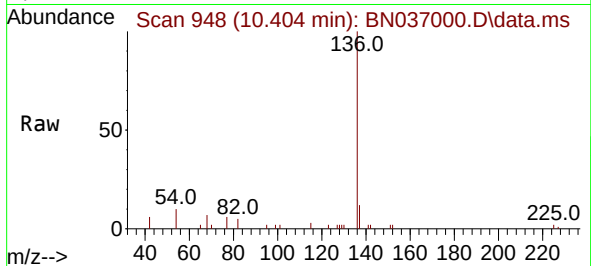




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.404 min Scan# 948  
Delta R.T. -0.000 min  
Lab File: BN037000.D  
Acq: 13 May 2025 18:17

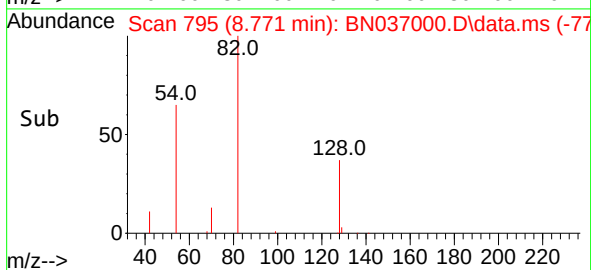
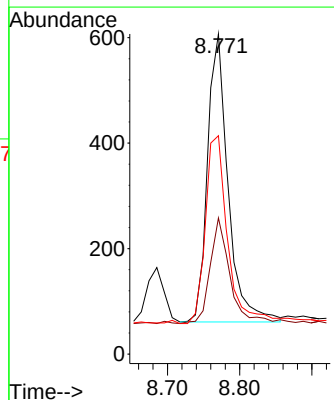
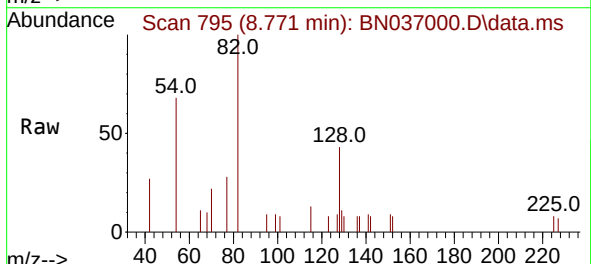
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

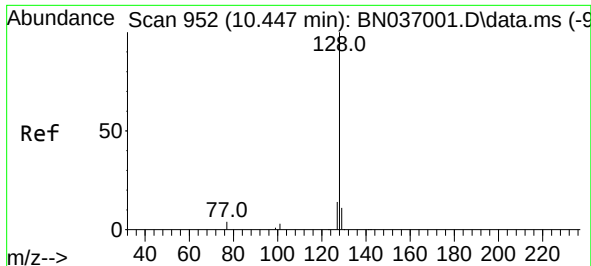
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 5637  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 12.3  | 10.4  | 15.6  |
| 54       | 10.0  | 8.5   | 12.7  |
| 68       | 6.5   | 5.1   | 7.7   |



#8  
Nitrobenzene-d5  
Concen: 0.176 ng  
RT: 8.771 min Scan# 795  
Delta R.T. -0.000 min  
Lab File: BN037000.D  
Acq: 13 May 2025 18:17

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 1080  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 42.5  | 34.0  | 51.0  |
| 54       | 68.2  | 55.0  | 82.4  |

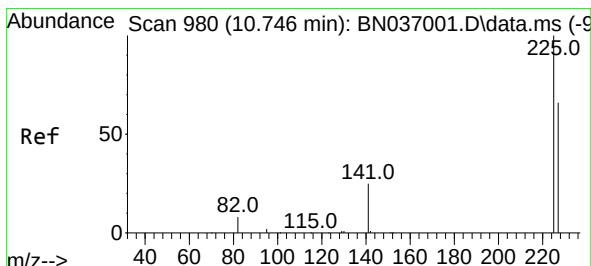
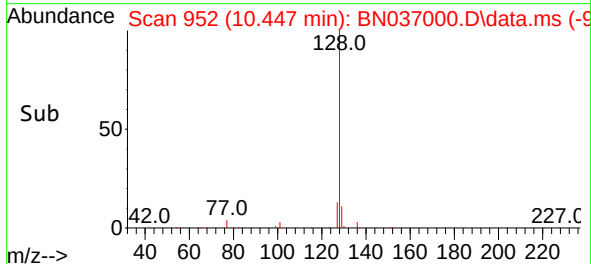
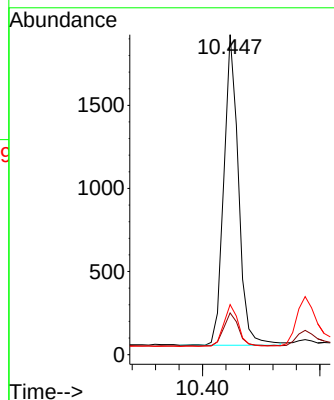
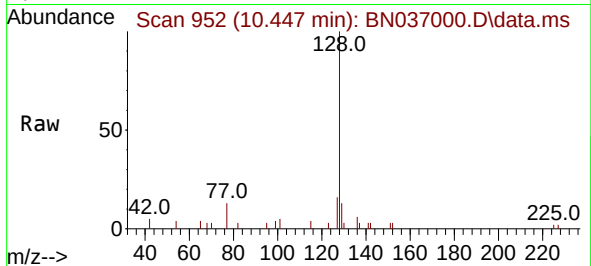




#9  
Naphthalene  
Concen: 0.193 ng  
RT: 10.447 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: BN037000.D  
Acq: 13 May 2025 18:17

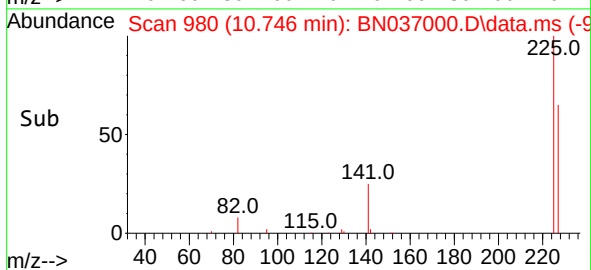
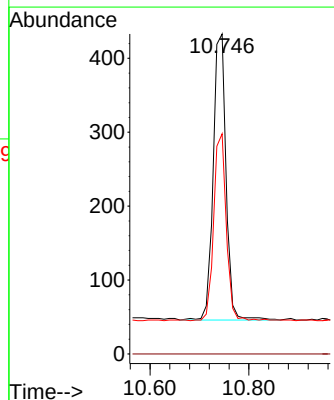
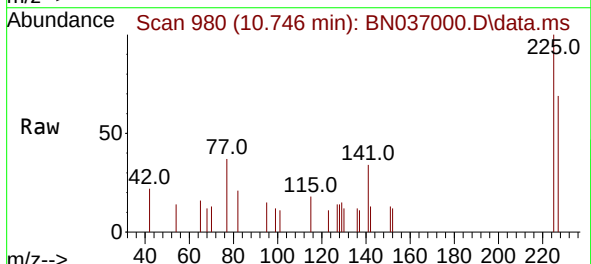
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

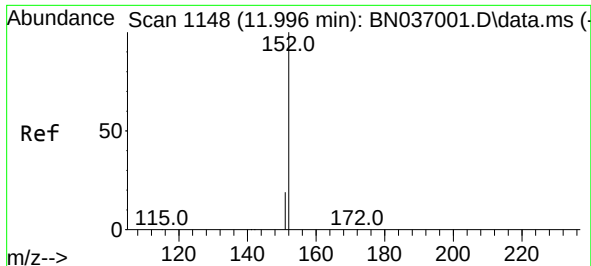
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 3213  |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 129      | 13.0  | 9.7   | 14.5  |
| 127      | 15.6  | 12.4  | 18.6  |



#10  
Hexachlorobutadiene  
Concen: 0.200 ng  
RT: 10.746 min Scan# 980  
Delta R.T. -0.000 min  
Lab File: BN037000.D  
Acq: 13 May 2025 18:17

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 225   | Resp: | 698   |
| Ion      | Ratio | Lower | Upper |
| 225      | 100   |       |       |
| 223      | 0.0   | 0.0   | 0.0   |
| 227      | 64.6  | 50.9  | 76.3  |

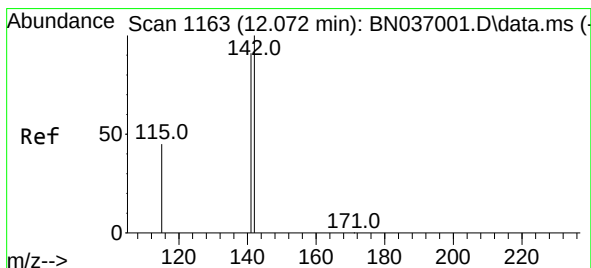
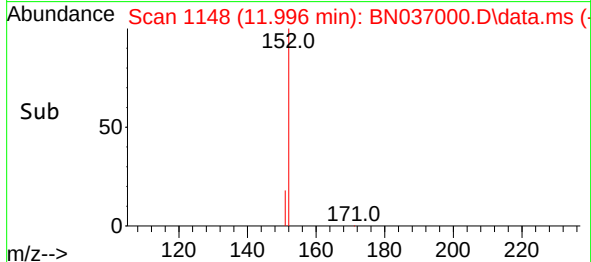
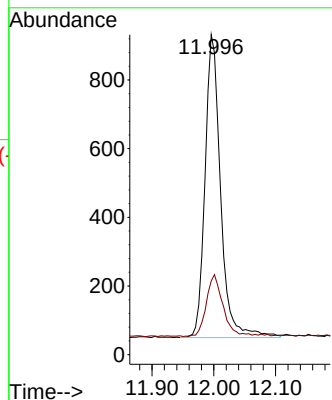
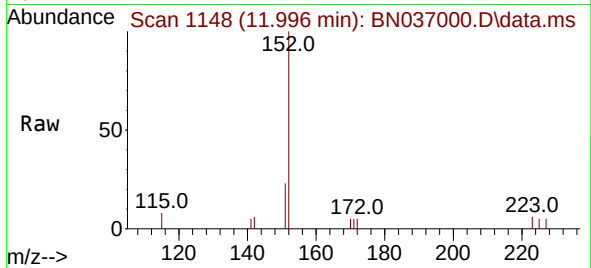




#11  
2-Methylnaphthalene-d10  
Concen: 0.194 ng  
RT: 11.996 min Scan# 1148  
Delta R.T. -0.000 min  
Lab File: BN037000.D  
Acq: 13 May 2025 18:17

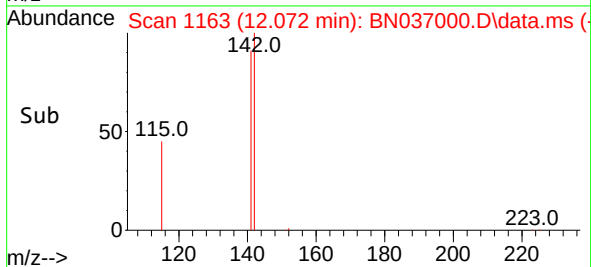
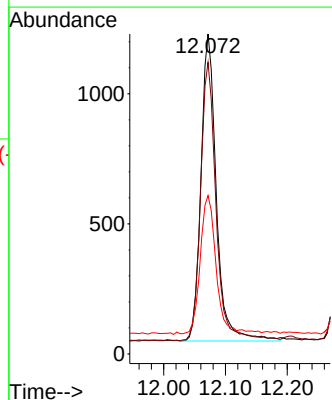
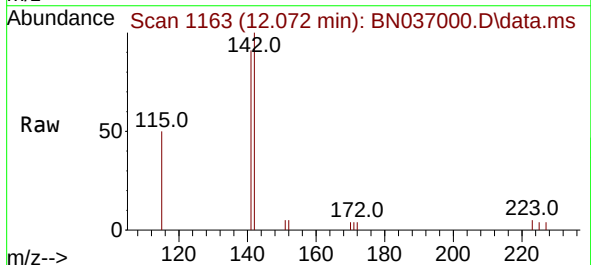
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

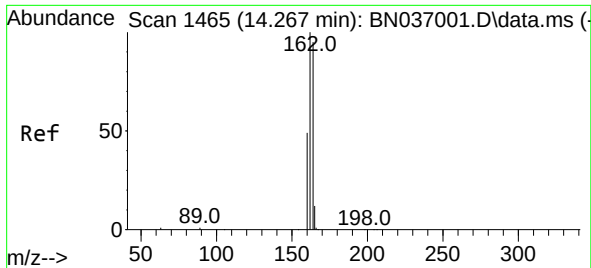
Tgt Ion:152 Resp: 1543  
Ion Ratio Lower Upper  
152 100  
151 22.0 17.5 26.3



#12  
2-Methylnaphthalene  
Concen: 0.191 ng  
RT: 12.072 min Scan# 1163  
Delta R.T. -0.000 min  
Lab File: BN037000.D  
Acq: 13 May 2025 18:17

Tgt Ion:142 Resp: 2041  
Ion Ratio Lower Upper  
142 100  
141 91.1 73.3 109.9  
115 49.5 38.4 57.6

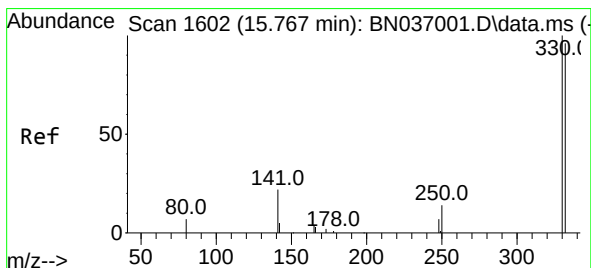
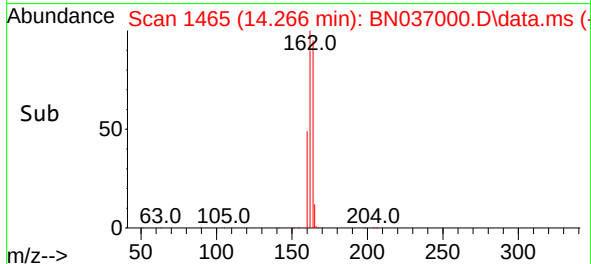
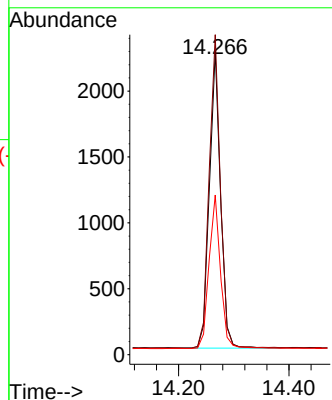
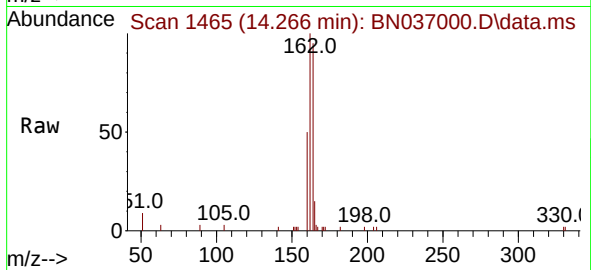




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.266 min Scan# 1465  
Delta R.T. -0.000 min  
Lab File: BN037000.D  
Acq: 13 May 2025 18:17

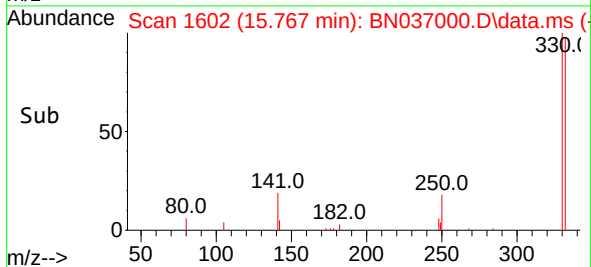
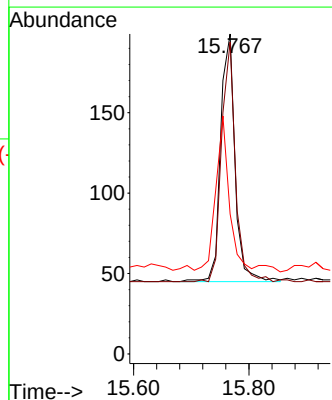
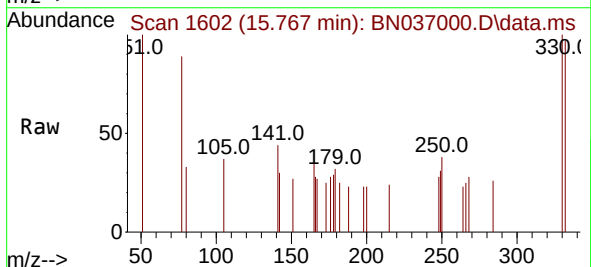
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

Tgt Ion:164 Resp: 3174  
Ion Ratio Lower Upper  
164 100  
162 105.4 84.2 126.4  
160 52.6 42.6 63.8

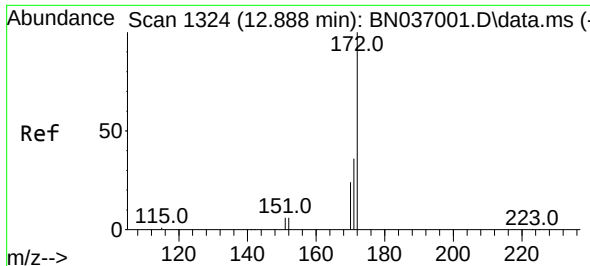


#14  
2,4,6-Tribromophenol  
Concen: 0.192 ng  
RT: 15.767 min Scan# 1602  
Delta R.T. -0.000 min  
Lab File: BN037000.D  
Acq: 13 May 2025 18:17

Tgt Ion:330 Resp: 267  
Ion Ratio Lower Upper  
330 100  
332 93.3 73.8 110.8  
141 58.1 43.9 65.9



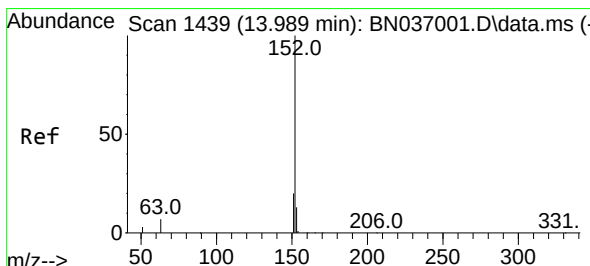
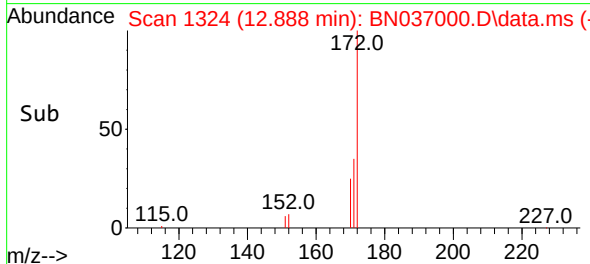
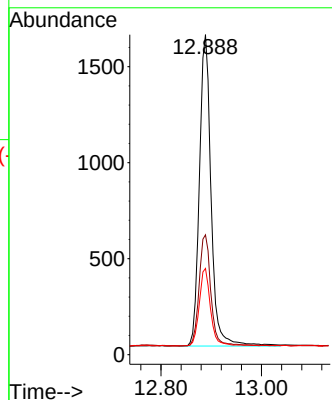
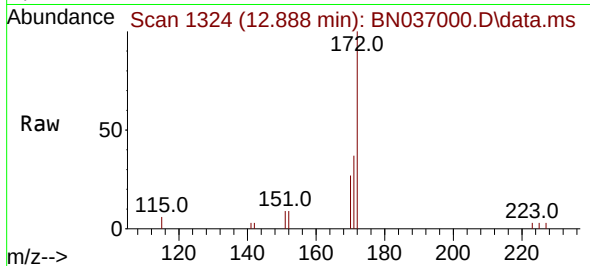




#15  
2-Fluorobiphenyl  
Concen: 0.197 ng  
RT: 12.888 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: BN037000.D  
Acq: 13 May 2025 18:17

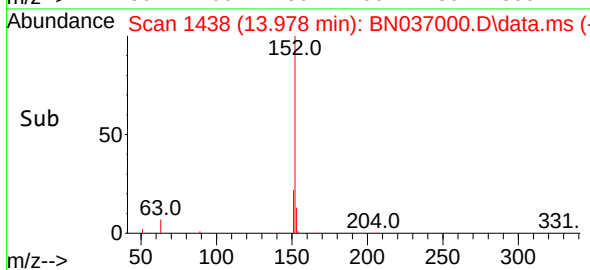
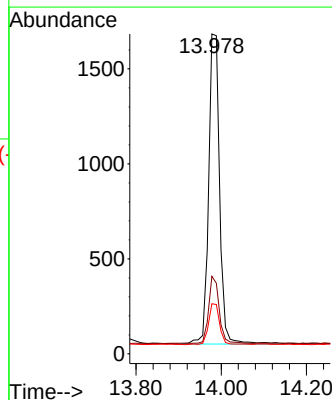
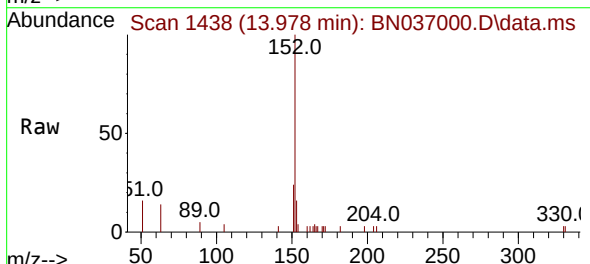
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

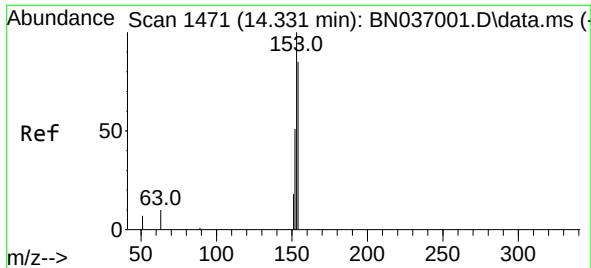
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 172   | Resp: | 2858 |
| Ion Ratio | Lower | Upper |      |
| 172       | 100   |       |      |
| 171       | 37.4  | 29.2  | 43.8 |
| 170       | 26.9  | 20.5  | 30.7 |



#16  
Acenaphthylene  
Concen: 0.189 ng  
RT: 13.978 min Scan# 1438  
Delta R.T. -0.011 min  
Lab File: BN037000.D  
Acq: 13 May 2025 18:17

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 152   | Resp: | 2917 |
| Ion Ratio | Lower | Upper |      |
| 152       | 100   |       |      |
| 151       | 20.6  | 16.1  | 24.1 |
| 153       | 13.7  | 10.5  | 15.7 |

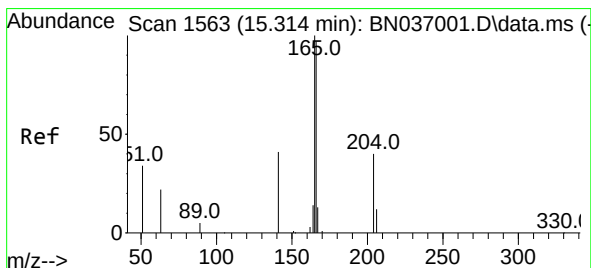
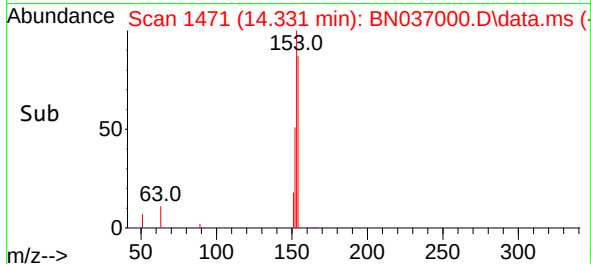
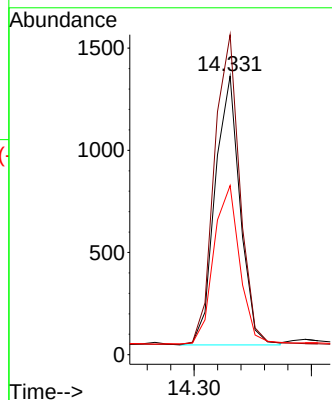
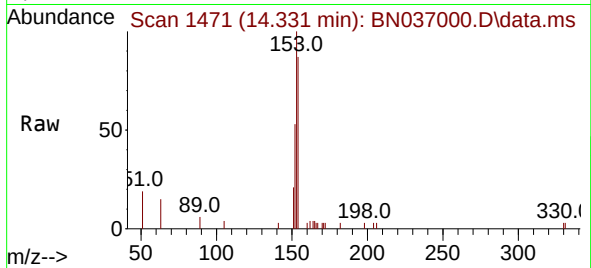




#17  
Acenaphthene  
Concen: 0.193 ng  
RT: 14.331 min Scan# 1471  
Delta R.T. -0.000 min  
Lab File: BN037000.D  
Acq: 13 May 2025 18:17

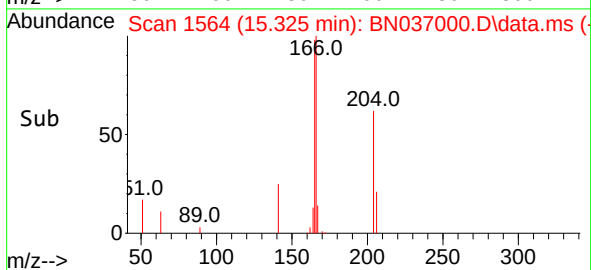
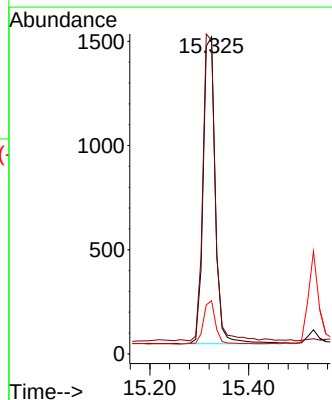
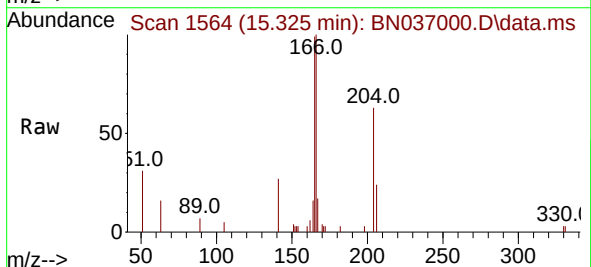
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

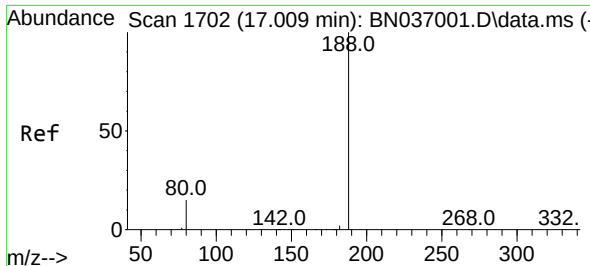
Tgt Ion:154 Resp: 1950  
Ion Ratio Lower Upper  
154 100  
153 117.0 94.2 141.4  
152 62.3 49.4 74.0



#18  
Fluorene  
Concen: 0.189 ng  
RT: 15.325 min Scan# 1564  
Delta R.T. 0.011 min  
Lab File: BN037000.D  
Acq: 13 May 2025 18:17

Tgt Ion:166 Resp: 2509  
Ion Ratio Lower Upper  
166 100  
165 99.9 80.6 120.8  
167 14.1 10.6 16.0

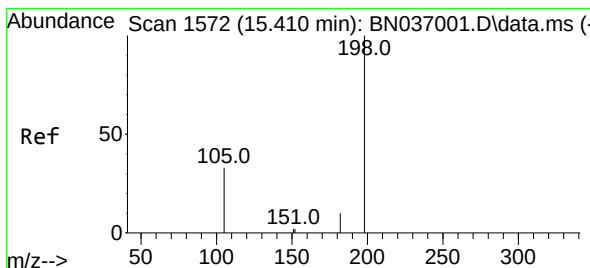
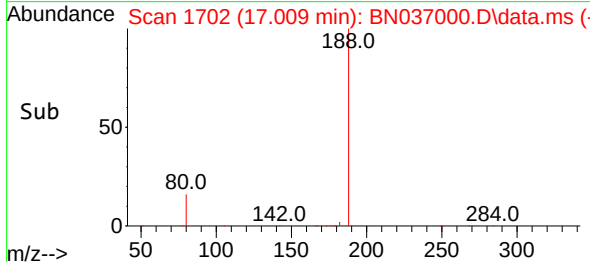
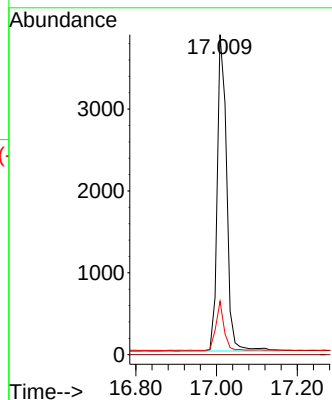
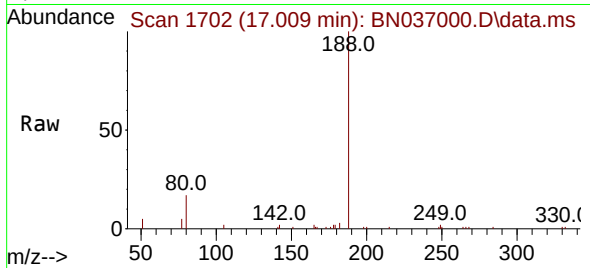




#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 17.009 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: BN037000.D  
Acq: 13 May 2025 18:17

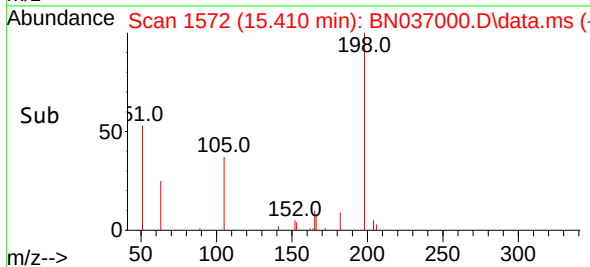
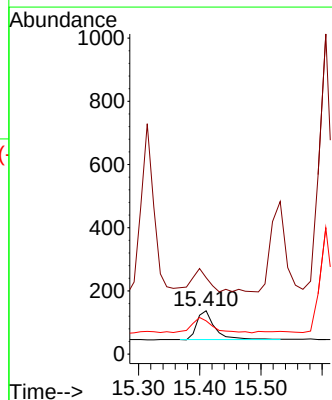
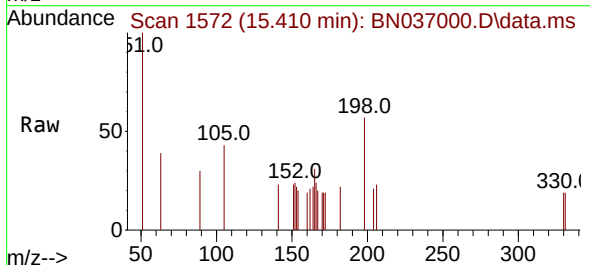
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

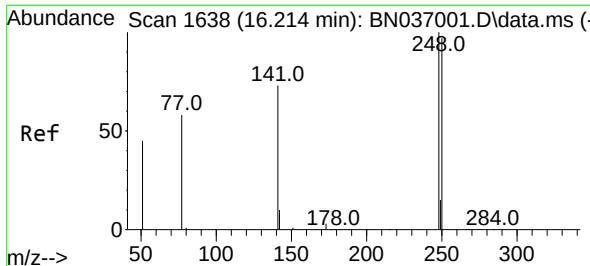
Tgt Ion:188 Resp: 6255  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 16.7 13.4 20.0



#20  
4,6-Dinitro-2-methylphenol  
Concen: 0.167 ng  
RT: 15.410 min Scan# 1572  
Delta R.T. 0.000 min  
Lab File: BN037000.D  
Acq: 13 May 2025 18:17

Tgt Ion:198 Resp: 187  
Ion Ratio Lower Upper  
198 100  
51 176.6 87.8 131.6#  
105 76.6 44.2 66.4#

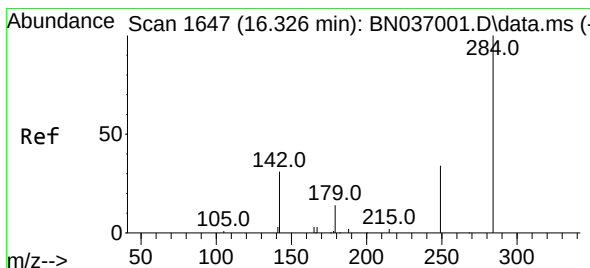
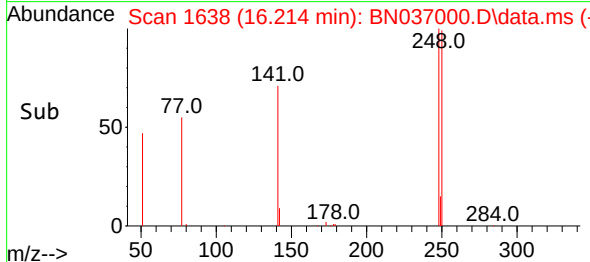
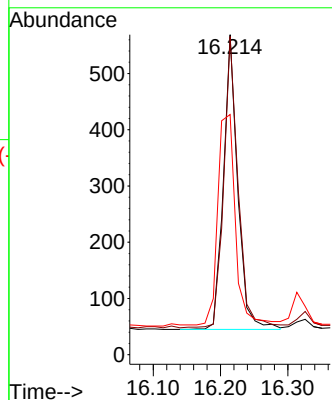
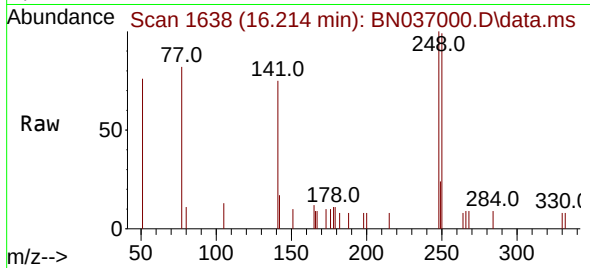




#21  
4-Bromophenyl-phenylether  
Concen: 0.195 ng  
RT: 16.214 min Scan# 1638  
Delta R.T. -0.000 min  
Lab File: BN037000.D  
Acq: 13 May 2025 18:17

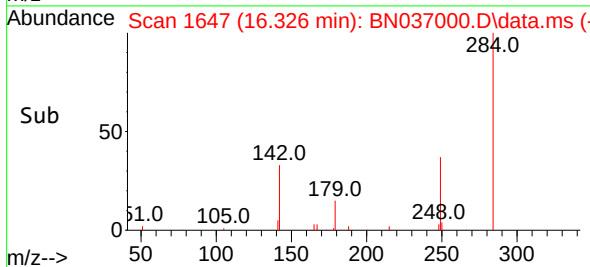
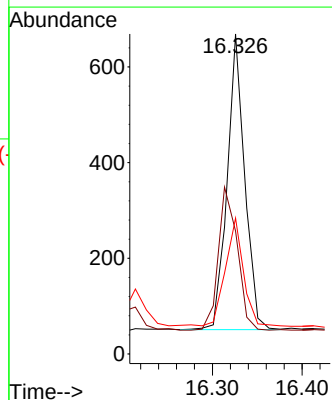
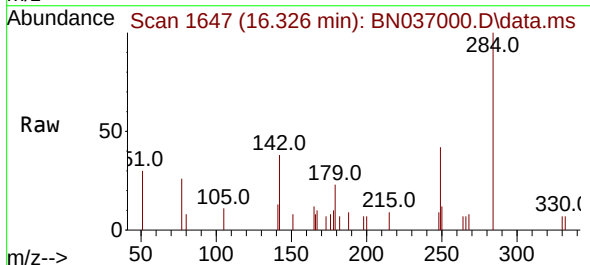
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

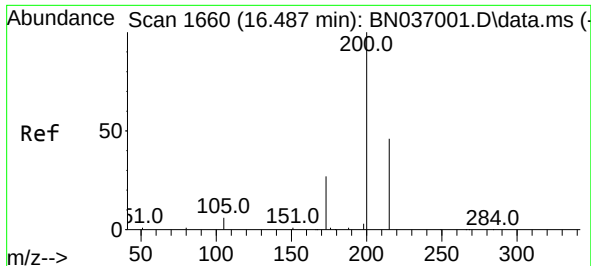
Tgt Ion:248 Resp: 770  
Ion Ratio Lower Upper  
248 100  
250 99.5 78.1 117.1  
141 75.0 59.7 89.5



#22  
Hexachlorobenzene  
Concen: 0.199 ng  
RT: 16.326 min Scan# 1647  
Delta R.T. -0.000 min  
Lab File: BN037000.D  
Acq: 13 May 2025 18:17

Tgt Ion:284 Resp: 840  
Ion Ratio Lower Upper  
284 100  
142 52.3 41.2 61.8  
249 37.9 28.7 43.1

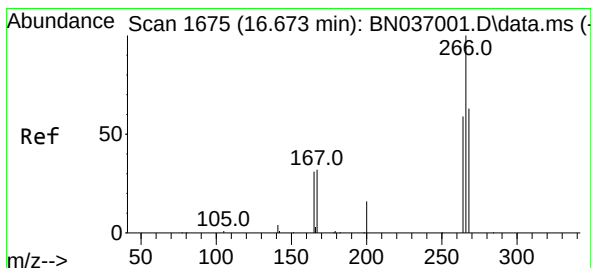
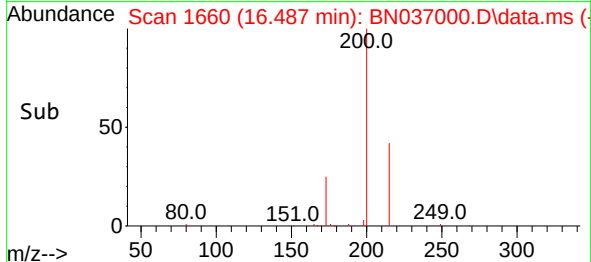
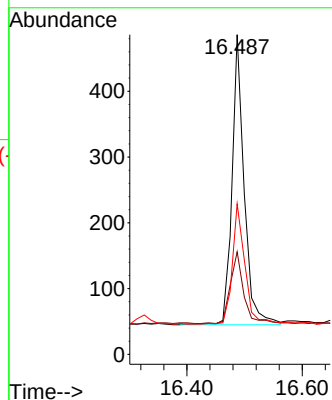
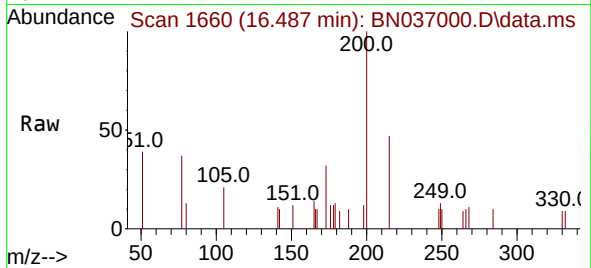




#23  
Atrazine  
Concen: 0.188 ng  
RT: 16.487 min Scan# 1660  
Delta R.T. -0.000 min  
Lab File: BN037000.D  
Acq: 13 May 2025 18:17

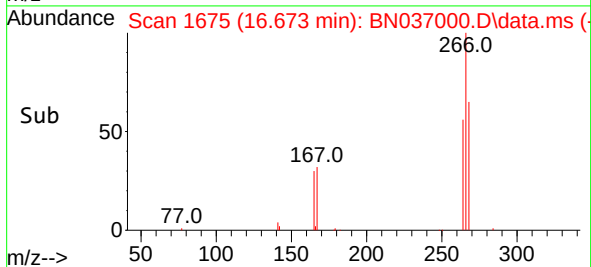
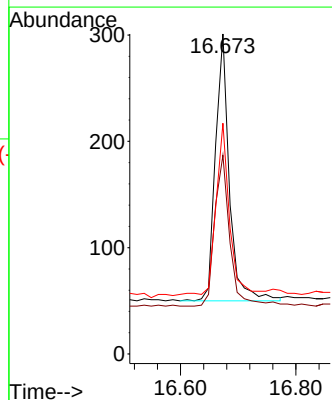
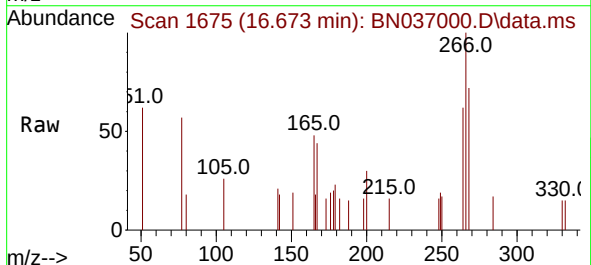
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

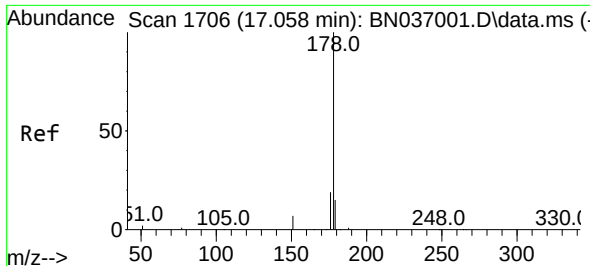
Tgt Ion:200 Resp: 647  
Ion Ratio Lower Upper  
200 100  
173 32.1 25.2 37.8  
215 47.1 39.3 58.9



#24  
Pentachlorophenol  
Concen: 0.178 ng  
RT: 16.673 min Scan# 1675  
Delta R.T. -0.000 min  
Lab File: BN037000.D  
Acq: 13 May 2025 18:17

Tgt Ion:266 Resp: 419  
Ion Ratio Lower Upper  
266 100  
264 62.8 47.9 71.9  
268 62.8 50.0 75.0

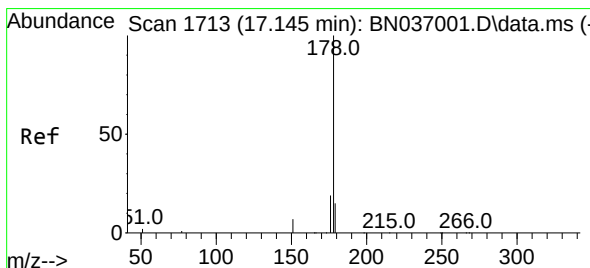
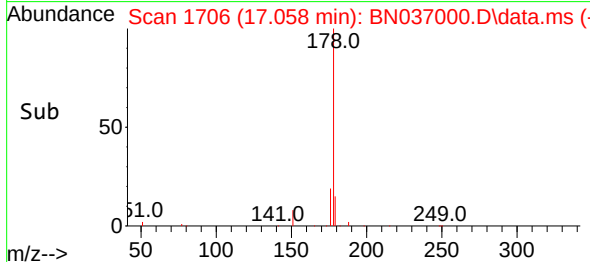
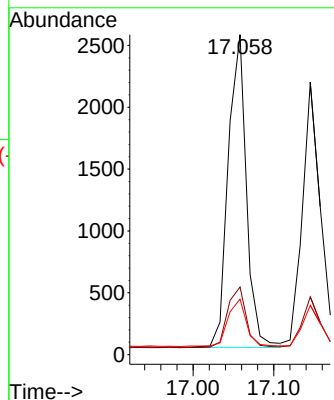
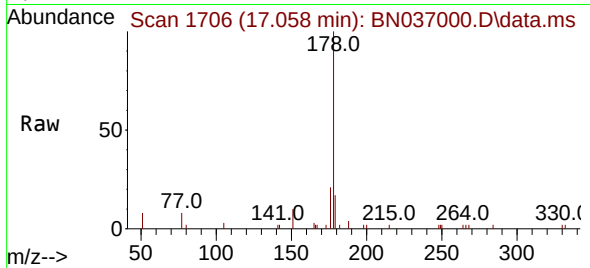




#25  
Phenanthrene  
Concen: 0.195 ng  
RT: 17.058 min Scan# 1706  
Delta R.T. -0.000 min  
Lab File: BN037000.D  
Acq: 13 May 2025 18:17

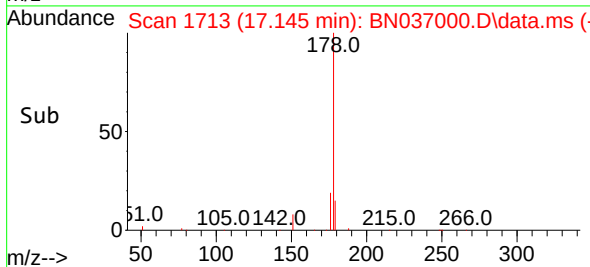
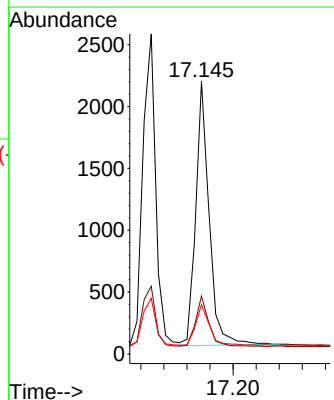
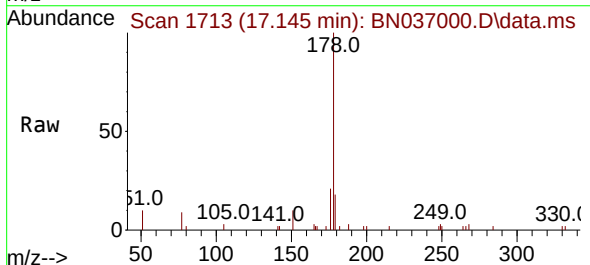
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

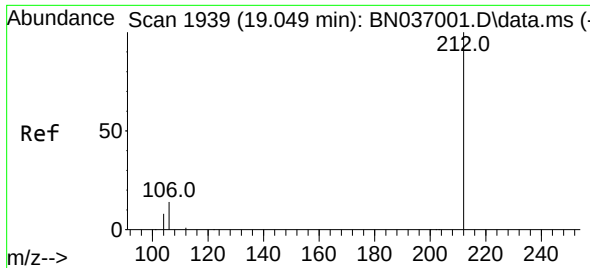
Tgt Ion:178 Resp: 3977  
Ion Ratio Lower Upper  
178 100  
176 19.6 15.7 23.5  
179 15.6 12.2 18.2



#26  
Anthracene  
Concen: 0.186 ng  
RT: 17.145 min Scan# 1713  
Delta R.T. -0.000 min  
Lab File: BN037000.D  
Acq: 13 May 2025 18:17

Tgt Ion:178 Resp: 3452  
Ion Ratio Lower Upper  
178 100  
176 18.8 15.0 22.6  
179 15.9 12.3 18.5

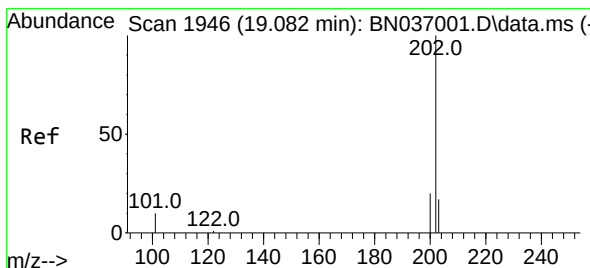
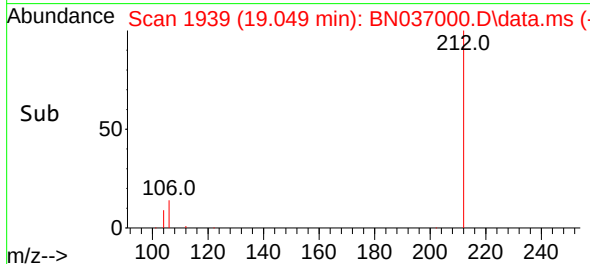
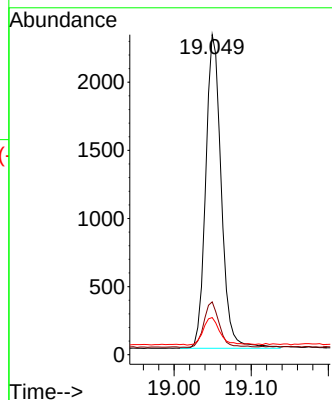
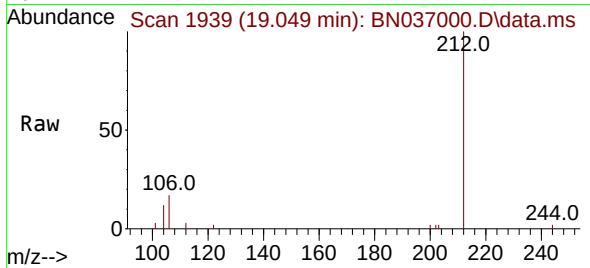




#27  
Fluoranthene-d10  
Concen: 0.188 ng  
RT: 19.049 min Scan# 1939  
Delta R.T. -0.000 min  
Lab File: BN037000.D  
Acq: 13 May 2025 18:17

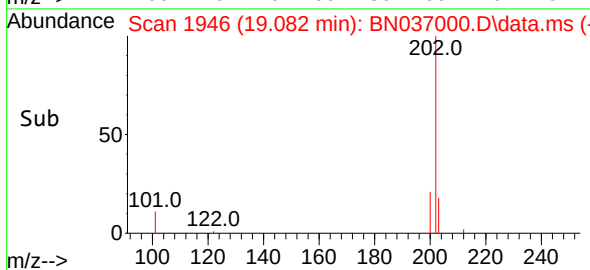
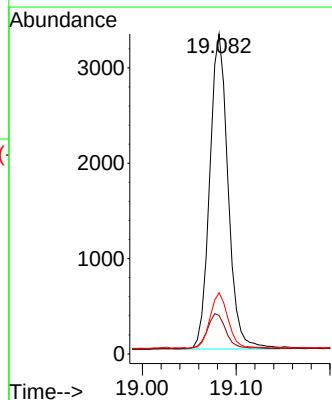
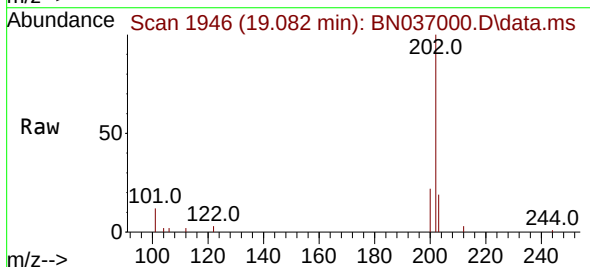
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

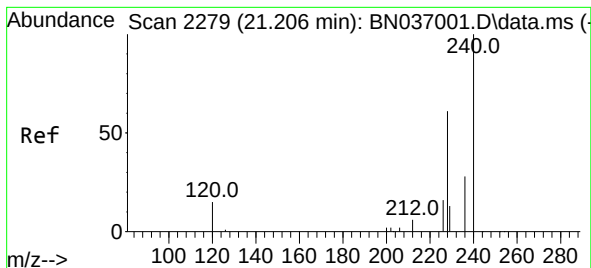
Tgt Ion:212 Resp: 3232  
Ion Ratio Lower Upper  
212 100  
106 14.3 11.3 16.9  
104 9.5 6.7 10.1



#28  
Fluoranthene  
Concen: 0.184 ng  
RT: 19.082 min Scan# 1946  
Delta R.T. -0.000 min  
Lab File: BN037000.D  
Acq: 13 May 2025 18:17

Tgt Ion:202 Resp: 4499  
Ion Ratio Lower Upper  
202 100  
101 11.5 8.9 13.3  
203 17.6 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.206 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037000.D

Acq: 13 May 2025 18:17

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2

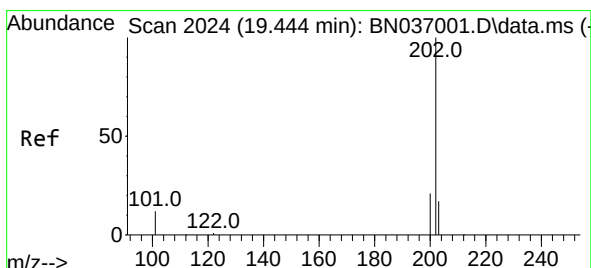
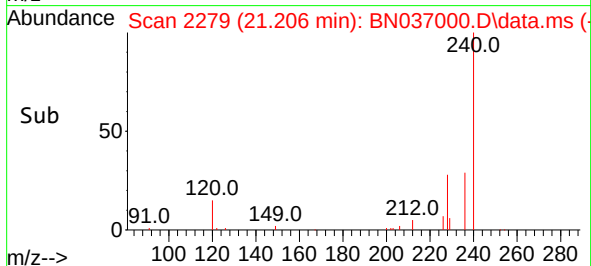
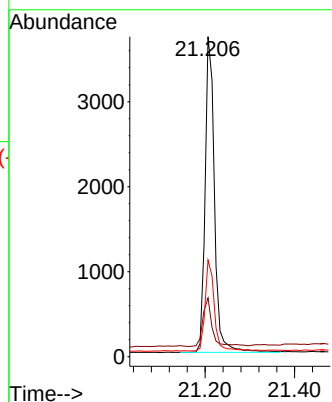
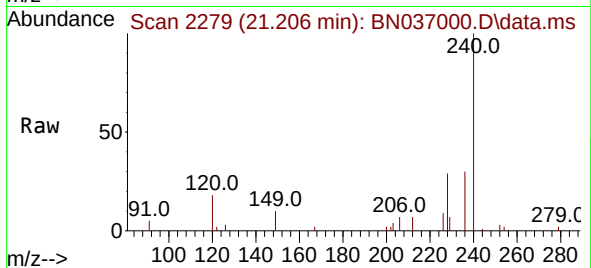
Tgt Ion:240 Resp: 5420

Ion Ratio Lower Upper

240 100

120 18.3 15.1 22.7

236 30.2 24.0 36.0



#30

Pyrene

Concen: 0.200 ng

RT: 19.444 min Scan# 2024

Delta R.T. -0.000 min

Lab File: BN037000.D

Acq: 13 May 2025 18:17

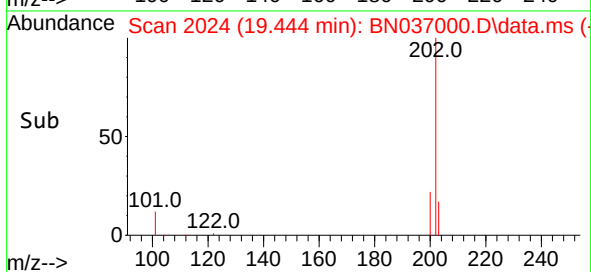
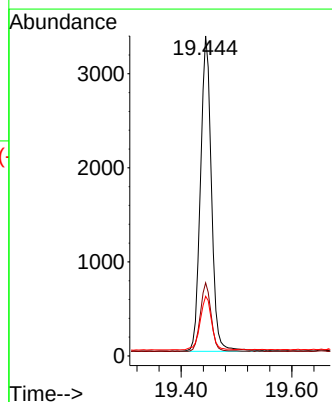
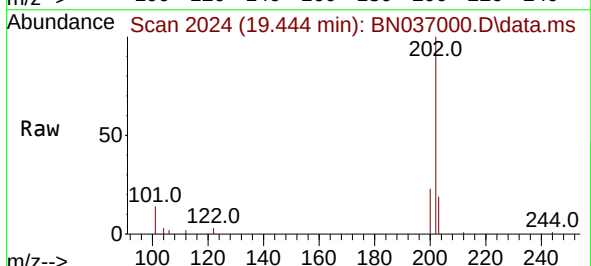
Tgt Ion:202 Resp: 4629

Ion Ratio Lower Upper

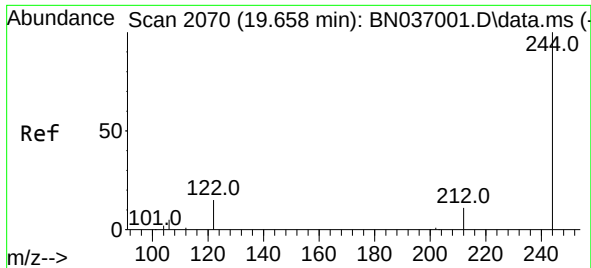
202 100

200 21.3 17.1 25.7

203 17.7 14.2 21.4



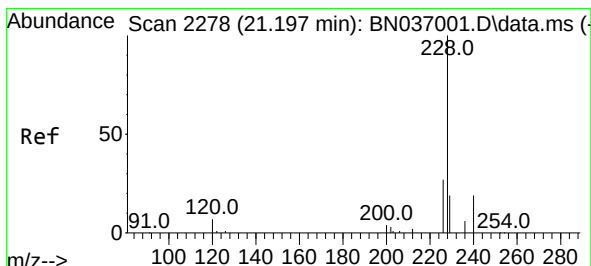
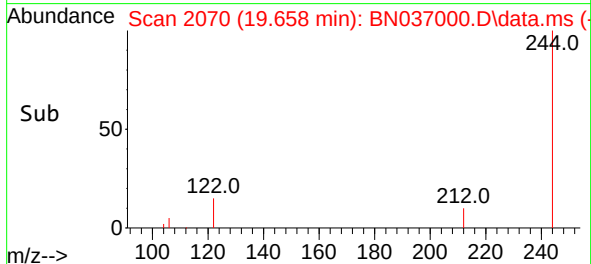
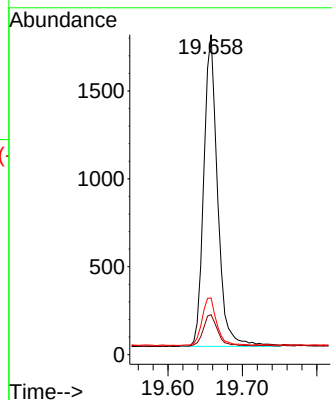
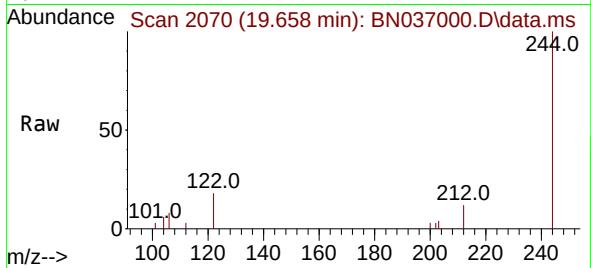




#31  
 Terphenyl-d14  
 Concen: 0.197 ng  
 RT: 19.658 min Scan# 2070  
 Delta R.T. -0.000 min  
 Lab File: BN037000.D  
 Acq: 13 May 2025 18:17

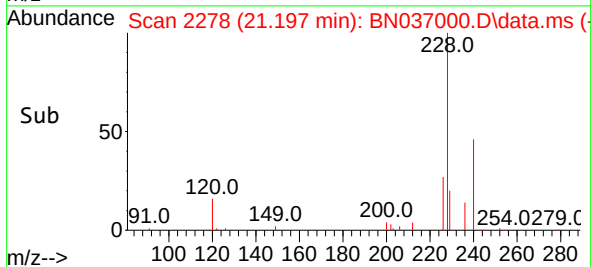
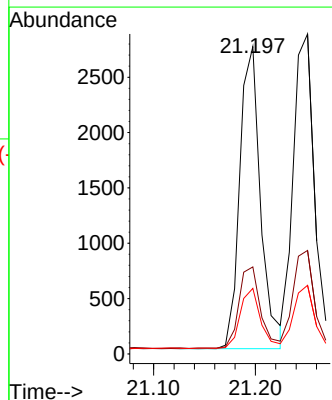
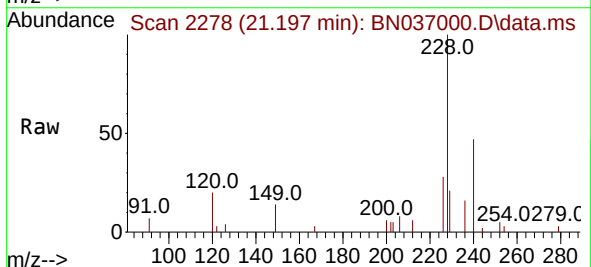
Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC0.2

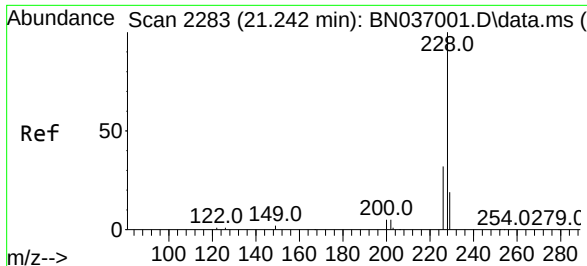
Tgt Ion:244 Resp: 2287  
 Ion Ratio Lower Upper  
 244 100  
 212 12.5 9.7 14.5  
 122 17.7 13.4 20.0



#32  
 Benzo(a)anthracene  
 Concen: 0.190 ng  
 RT: 21.197 min Scan# 2278  
 Delta R.T. -0.000 min  
 Lab File: BN037000.D  
 Acq: 13 May 2025 18:17

Tgt Ion:228 Resp: 3882  
 Ion Ratio Lower Upper  
 228 100  
 226 28.3 22.2 33.4  
 229 21.4 16.0 24.0





#33

Chrysene

Concen: 0.196 ng

RT: 21.251 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN037000.D

Acq: 13 May 2025 18:17

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2

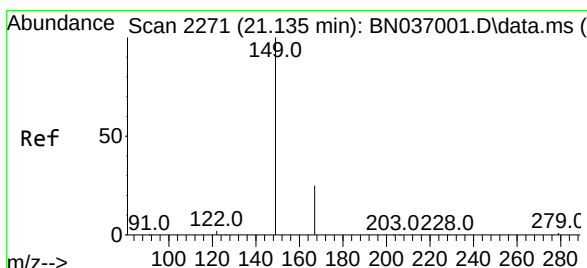
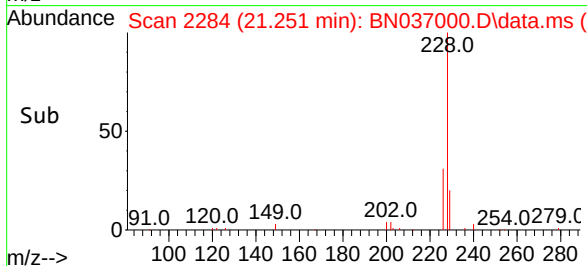
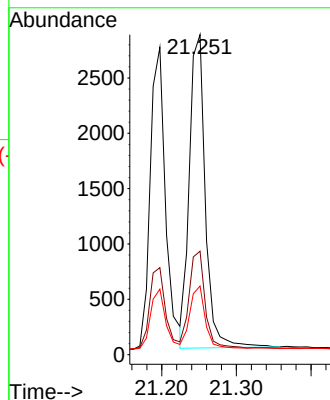
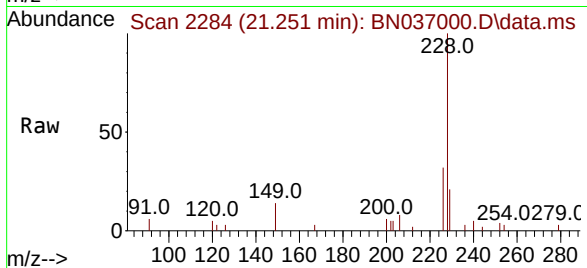
Tgt Ion:228 Resp: 4226

Ion Ratio Lower Upper

228 100

226 32.3 26.3 39.5

229 21.4 16.2 24.2



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.198 ng

RT: 21.135 min Scan# 2271

Delta R.T. -0.000 min

Lab File: BN037000.D

Acq: 13 May 2025 18:17

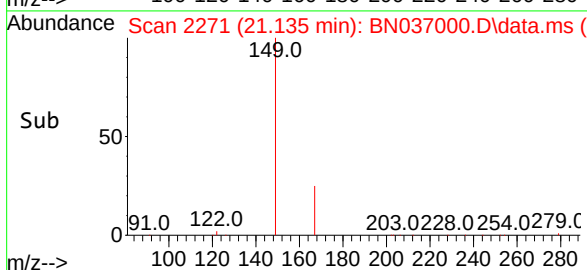
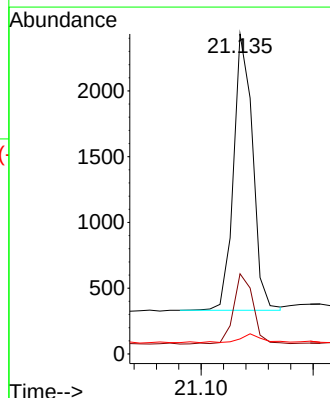
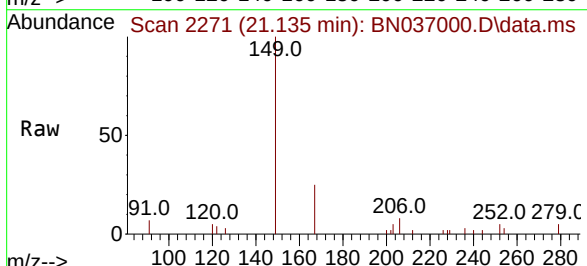
Tgt Ion:149 Resp: 2490

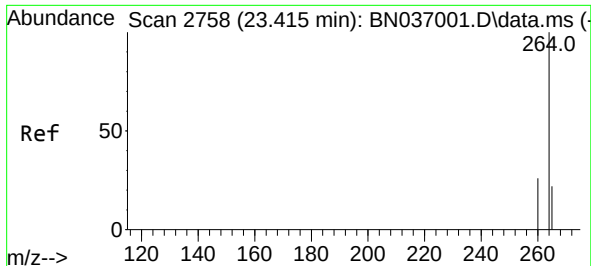
Ion Ratio Lower Upper

149 100

167 26.4 20.6 30.8

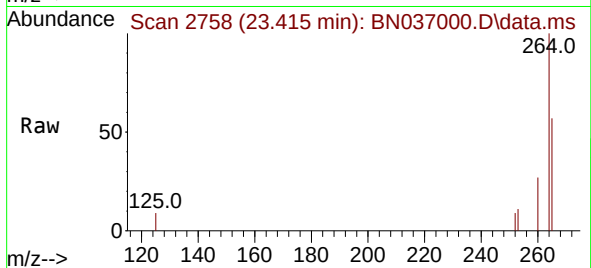
279 3.8 2.6 3.8



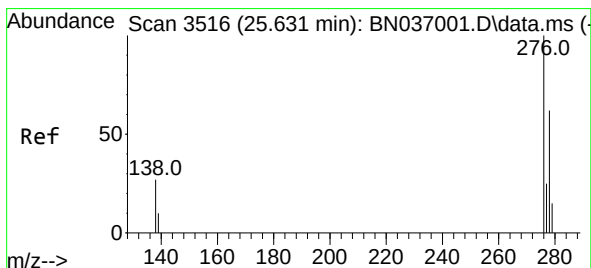
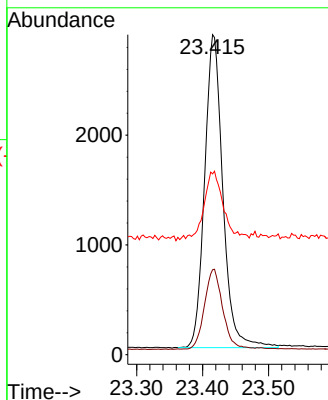
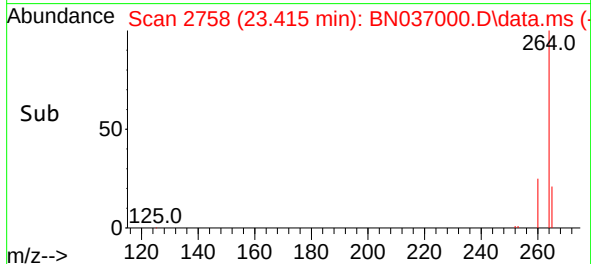


#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.415 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: BN037000.D  
Acq: 13 May 2025 18:17

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

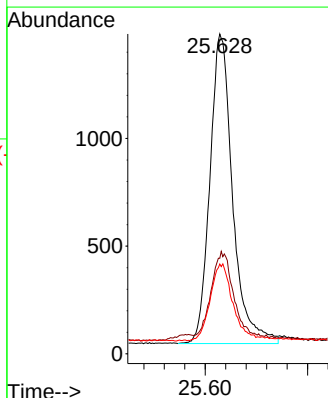
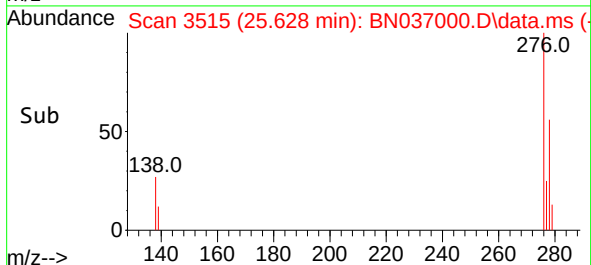
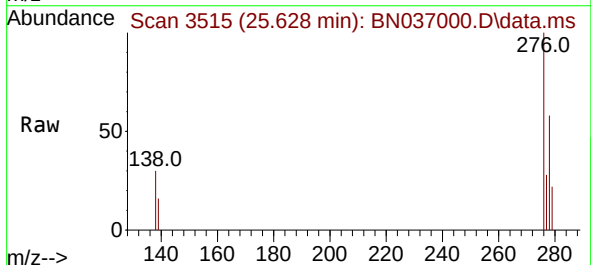


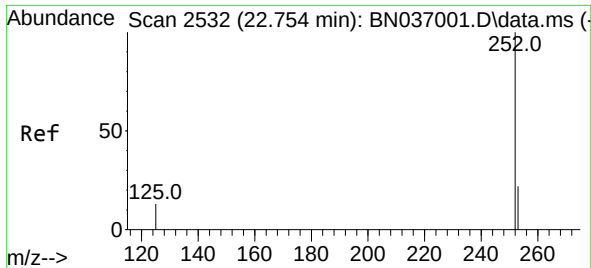
Tgt Ion:264 Resp: 5487  
Ion Ratio Lower Upper  
264 100  
260 26.6 21.9 32.9  
265 56.5 51.6 77.4



#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.198 ng  
RT: 25.628 min Scan# 3515  
Delta R.T. -0.003 min  
Lab File: BN037000.D  
Acq: 13 May 2025 18:17

Tgt Ion:276 Resp: 4426  
Ion Ratio Lower Upper  
276 100  
138 27.9 22.7 34.1  
277 24.6 20.0 30.0

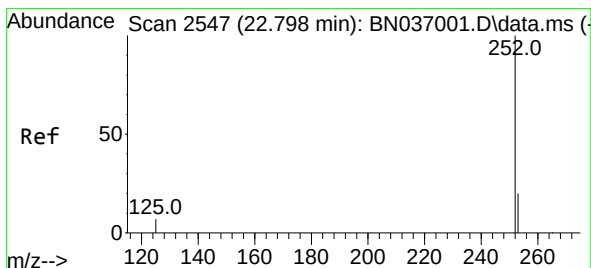
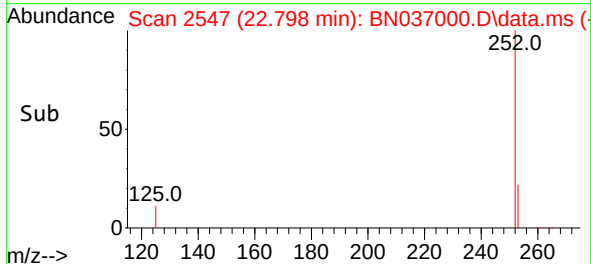
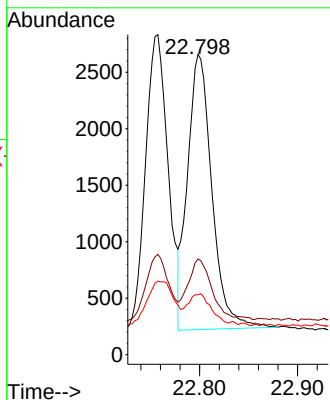
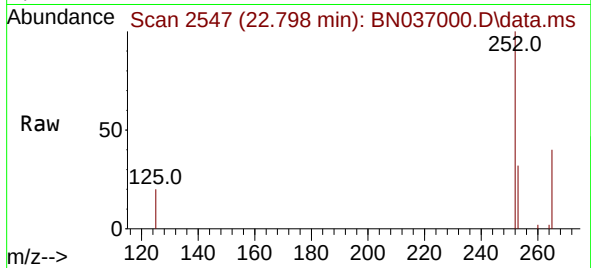




#37  
Benzo(b)fluoranthene  
Concen: 0.185 ng  
RT: 22.798 min Scan# 2547  
Delta R.T. 0.044 min  
Lab File: BN037000.D  
Acq: 13 May 2025 18:17

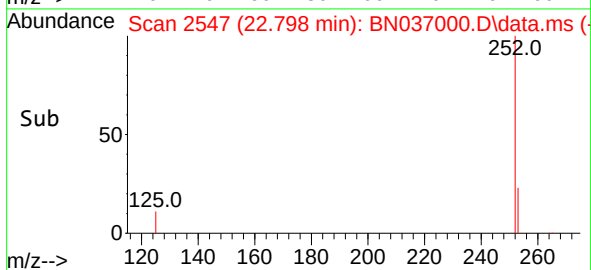
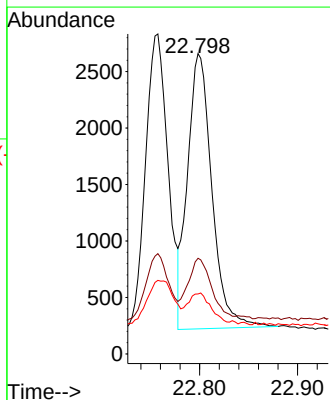
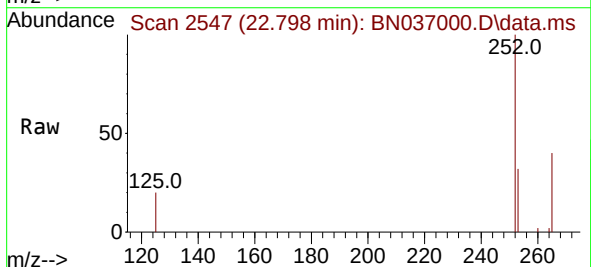
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

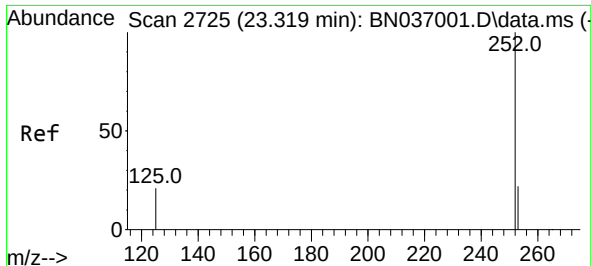
Tgt Ion:252 Resp: 4219  
Ion Ratio Lower Upper  
252 100  
253 31.9 21.8 32.6  
125 20.0 14.6 21.8



#38  
Benzo(k)fluoranthene  
Concen: 0.188 ng  
RT: 22.798 min Scan# 2547  
Delta R.T. -0.000 min  
Lab File: BN037000.D  
Acq: 13 May 2025 18:17

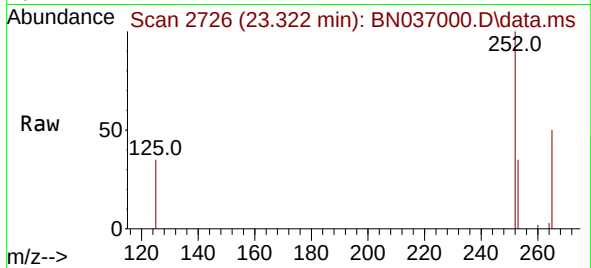
Tgt Ion:252 Resp: 4219  
Ion Ratio Lower Upper  
252 100  
253 31.9 21.4 32.2  
125 20.0 13.0 19.4#



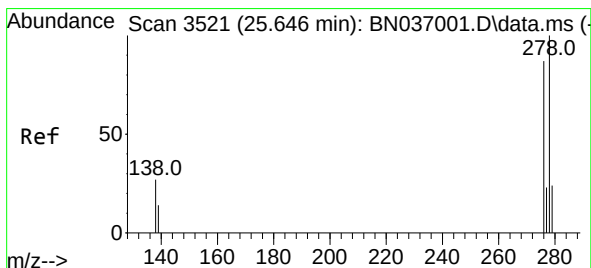
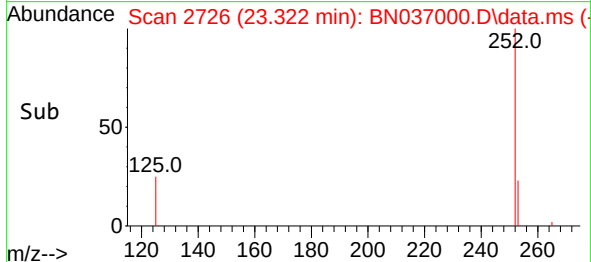
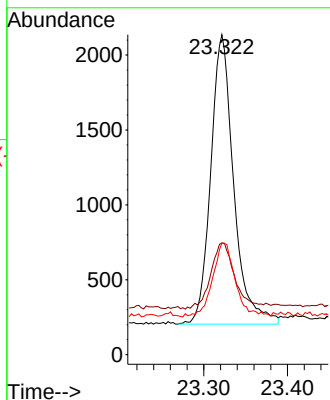


#39  
Benzo(a)pyrene  
Concen: 0.191 ng  
RT: 23.322 min Scan# 21  
Delta R.T. 0.003 min  
Lab File: BN037000.D  
Acq: 13 May 2025 18:17

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

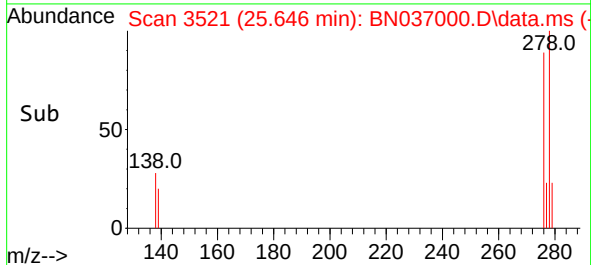
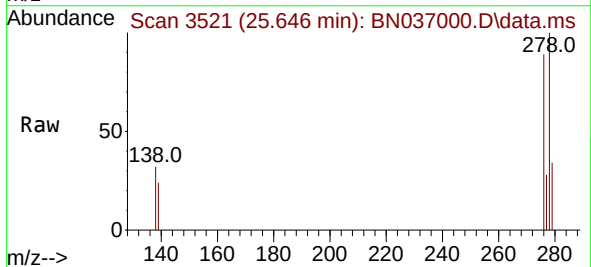
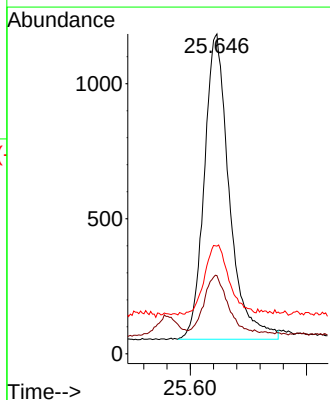


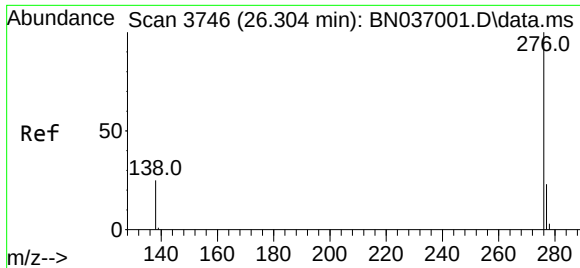
Tgt Ion:252 Resp: 3685  
Ion Ratio Lower Upper  
252 100  
253 34.9 23.8 35.6  
125 35.0 21.8 32.6#



#40  
Dibenzo(a,h)anthracene  
Concen: 0.194 ng  
RT: 25.646 min Scan# 3521  
Delta R.T. -0.000 min  
Lab File: BN037000.D  
Acq: 13 May 2025 18:17

Tgt Ion:278 Resp: 3380  
Ion Ratio Lower Upper  
278 100  
139 24.5 17.4 26.0  
279 33.7 24.6 37.0

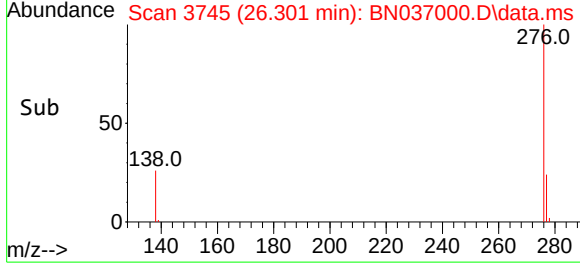
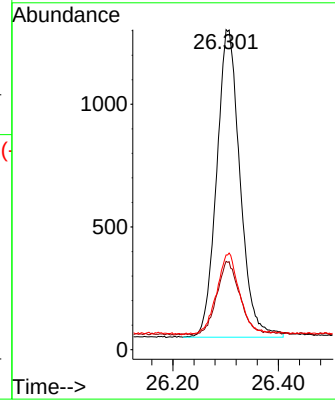
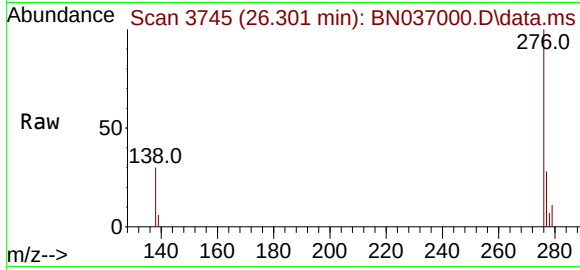




#41  
 Benzo(g,h,i)perylene  
 Concen: 0.204 ng  
 RT: 26.301 min Scan# 31  
 Delta R.T. -0.003 min  
 Lab File: BN037000.D  
 Acq: 13 May 2025 18:17

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC0.2

Tgt Ion:276 Resp: 3861  
 Ion Ratio Lower Upper  
 276 100  
 277 27.6 20.2 30.4  
 138 29.6 22.0 33.0



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN052825\  
 Data File : BN037108.D  
 Acq On : 28 May 2025 14:17  
 Operator : RC/JU  
 Sample : PB168155BS  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 PB168155BS

Quant Time: May 28 15:38:43 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN051425.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 14 11:26:32 2025  
 Response via : Initial Calibration

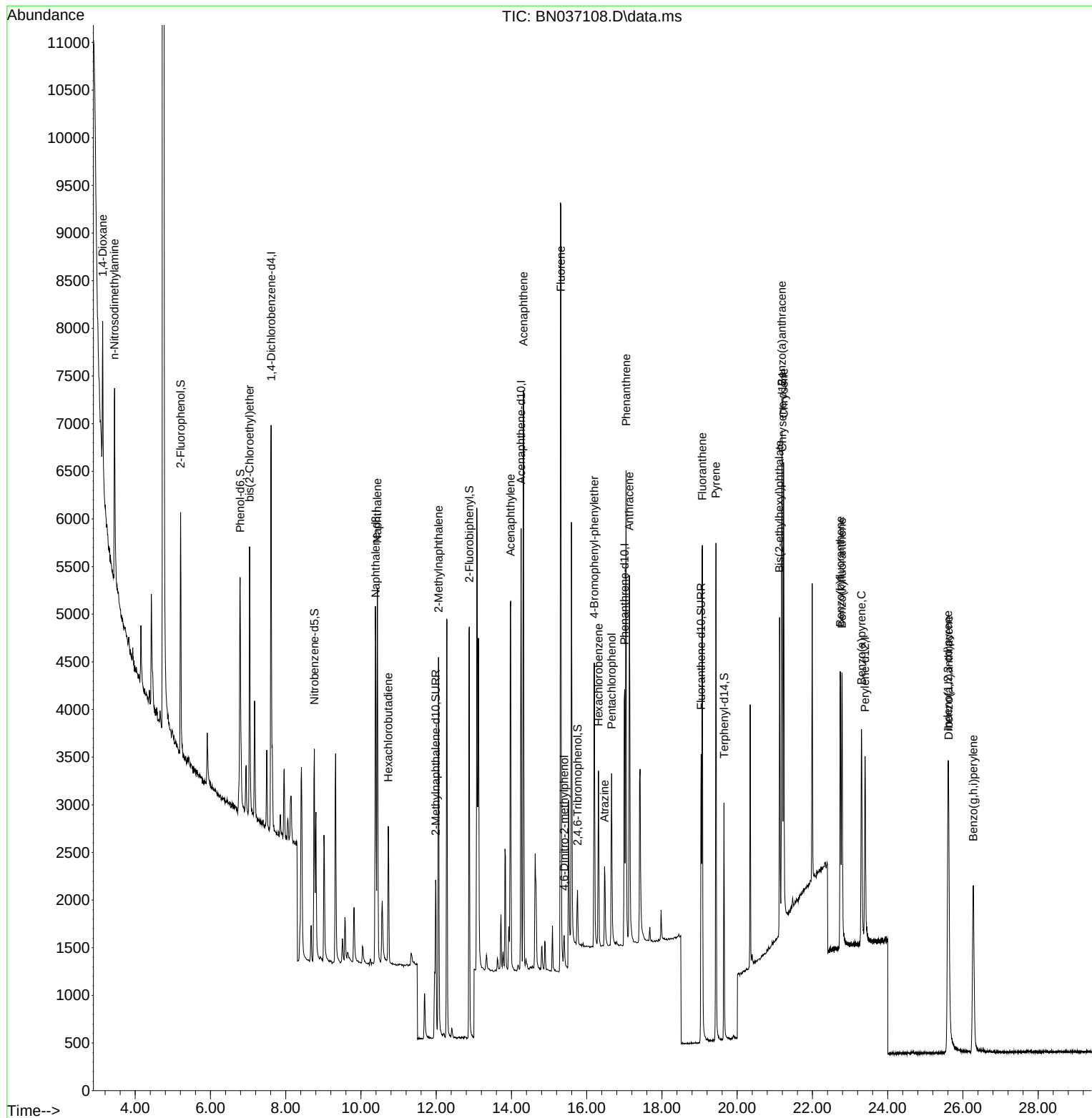
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.611  | 152  | 1969     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.394 | 136  | 4930     | 0.400 | ng    | -0.01    |
| 13) Acenaphthene-d10          | 14.256 | 164  | 2429     | 0.400 | ng    | -0.01    |
| 19) Phenanthrene-d10          | 17.009 | 188  | 4326     | 0.400 | ng    | # 0.00   |
| 29) Chrysene-d12              | 21.198 | 240  | 2746     | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.398 | 264  | 2563     | 0.400 | ng    | #-0.02   |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.206  | 112  | 1695     | 0.329 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.788  | 99   | 2029     | 0.314 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.760  | 82   | 1824     | 0.340 | ng    | -0.01    |
| 11) 2-Methylnaphthalene-d10   | 11.986 | 152  | 3544     | 0.511 | ng    | -0.01    |
| 14) 2,4,6-Tribromophenol      | 15.755 | 330  | 337      | 0.316 | ng    | -0.01    |
| 15) 2-Fluorobiphenyl          | 12.878 | 172  | 3875     | 0.348 | ng    | -0.01    |
| 27) Fluoranthene-d10          | 19.040 | 212  | 3574     | 0.301 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.649 | 244  | 2465     | 0.420 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
|                               |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.133  | 88   | 695      | 0.288 | ng    | # 28     |
| 3) n-Nitrosodimethylamine     | 3.444  | 42   | 1826     | 0.352 | ng    | # 89     |
| 6) bis(2-Chloroethyl)ether    | 7.040  | 93   | 1934     | 0.326 | ng    | 98       |
| 9) Naphthalene                | 10.436 | 128  | 4935     | 0.339 | ng    | 98       |
| 10) Hexachlorobutadiene       | 10.725 | 225  | 1127     | 0.369 | ng    | # 99     |
| 12) 2-Methylnaphthalene       | 12.062 | 142  | 2819     | 0.301 | ng    | 98       |
| 16) Acenaphthylene            | 13.978 | 152  | 4684     | 0.396 | ng    | 100      |
| 17) Acenaphthene              | 14.320 | 154  | 2750     | 0.356 | ng    | 99       |
| 18) Fluorene                  | 15.314 | 166  | 3561     | 0.351 | ng    | 99       |
| 20) 4,6-Dinitro-2-methylph... | 15.400 | 198  | 328      | 0.393 | ng    | 92       |
| 21) 4-Bromophenyl-phenylether | 16.202 | 248  | 1056     | 0.386 | ng    | 90       |
| 22) Hexachlorobenzene         | 16.314 | 284  | 1185     | 0.405 | ng    | 97       |
| 23) Atrazine                  | 16.475 | 200  | 853      | 0.358 | ng    | # 95     |
| 24) Pentachlorophenol         | 16.661 | 266  | 938      | 0.582 | ng    | 99       |
| 25) Phenanthrene              | 17.046 | 178  | 5049     | 0.357 | ng    | 99       |
| 26) Anthracene                | 17.133 | 178  | 4654     | 0.362 | ng    | 100      |
| 28) Fluoranthene              | 19.073 | 202  | 4961     | 0.294 | ng    | 98       |
| 30) Pyrene                    | 19.435 | 202  | 4905     | 0.418 | ng    | 100      |
| 32) Benzo(a)anthracene        | 21.189 | 228  | 3830     | 0.370 | ng    | 99       |
| 33) Chrysene                  | 21.233 | 228  | 4002     | 0.366 | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 21.126 | 149  | 2238     | 0.352 | ng    | 99       |
| 36) Indeno(1,2,3-cd)pyrene    | 25.602 | 276  | 4131     | 0.395 | ng    | 98       |
| 37) Benzo(b)fluoranthene      | 22.740 | 252  | 3658     | 0.344 | ng    | 96       |
| 38) Benzo(k)fluoranthene      | 22.784 | 252  | 3793     | 0.361 | ng    | 94       |
| 39) Benzo(a)pyrene            | 23.304 | 252  | 3441     | 0.382 | ng    | # 90     |
| 40) Dibenzo(a,h)anthracene    | 25.620 | 278  | 3166     | 0.388 | ng    | 97       |
| 41) Benzo(g,h,i)perylene      | 26.275 | 276  | 3702     | 0.418 | ng    | 98       |
| -----                         |        |      |          |       |       |          |

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

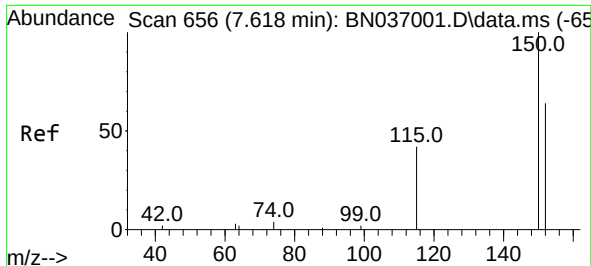
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN052825\  
Data File : BN037108.D  
Acq On : 28 May 2025 14:17  
Operator : RC/JU  
Sample : PB168155BS  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
PB168155BS

Quant Time: May 28 15:38:43 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN051425.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed May 14 11:26:32 2025  
Response via : Initial Calibration

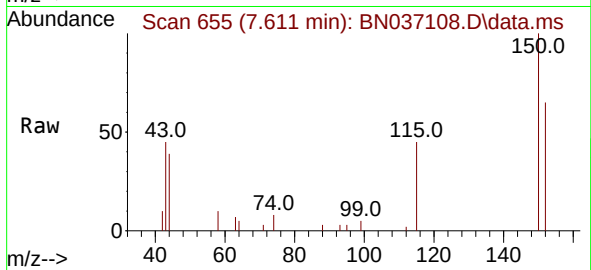






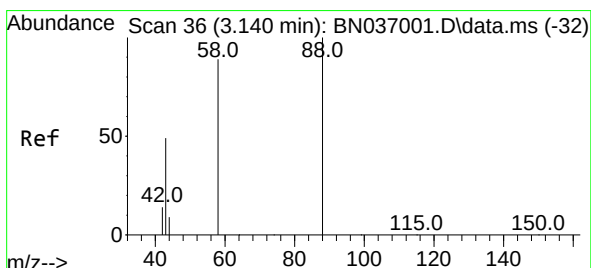
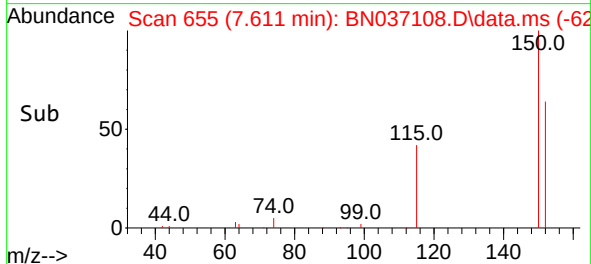
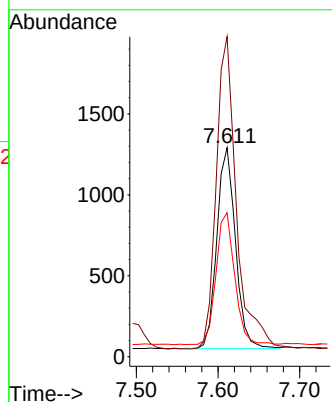
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 0.400 ng  
 RT: 7.611 min Scan# 61  
 Delta R.T. -0.007 min  
 Lab File: BN037108.D  
 Acq: 28 May 2025 14:17

Instrument :  
 BNA\_N  
 ClientSampleId :  
 PB168155BS



Tgt Ion:152 Resp: 1969

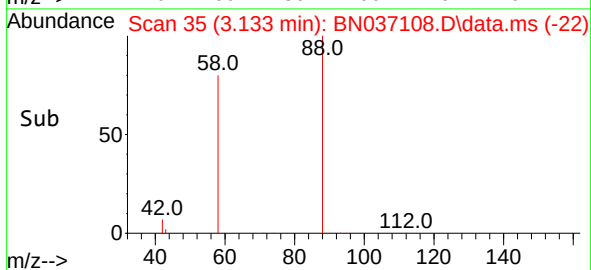
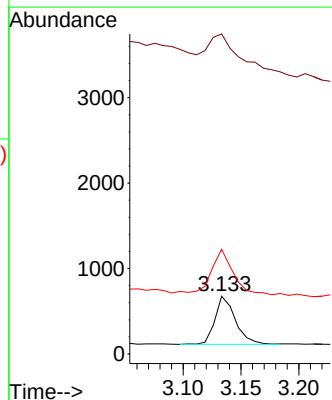
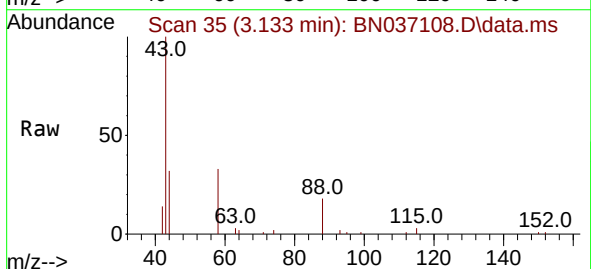
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 152 | 100   |       |       |
| 150 | 153.1 | 123.9 | 185.9 |
| 115 | 68.9  | 55.8  | 83.8  |

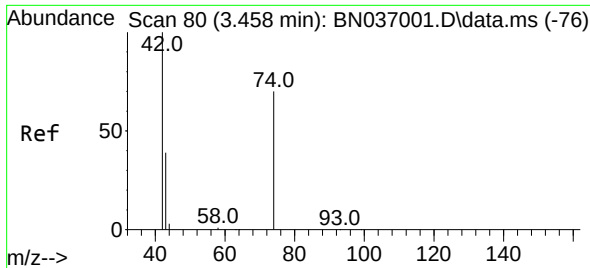


#2  
 1,4-Dioxane  
 Concen: 0.288 ng  
 RT: 3.133 min Scan# 35  
 Delta R.T. -0.007 min  
 Lab File: BN037108.D  
 Acq: 28 May 2025 14:17

Tgt Ion: 88 Resp: 695

| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 88  | 100   |       |        |
| 43  | 153.7 | 37.4  | 56.0#  |
| 58  | 108.1 | 68.8  | 103.2# |

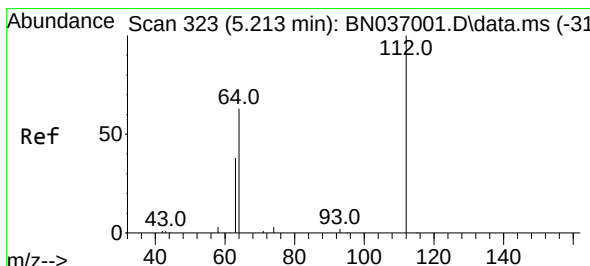
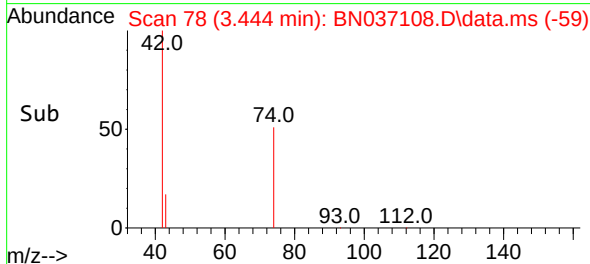
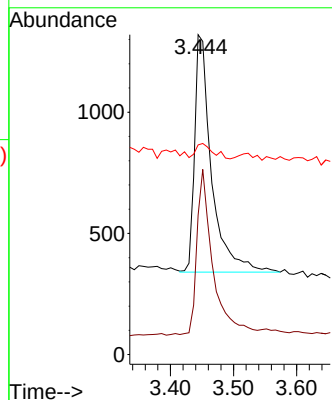
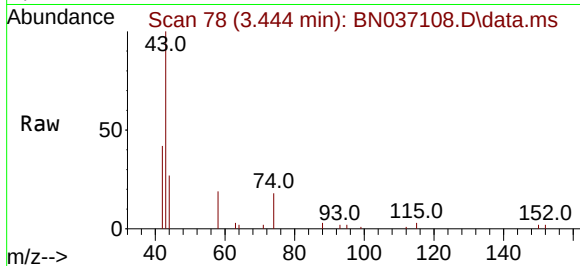




#3  
n-Nitrosodimethylamine  
Concen: 0.352 ng  
RT: 3.444 min Scan# 71  
Delta R.T. -0.014 min  
Lab File: BN037108.D  
Acq: 28 May 2025 14:17

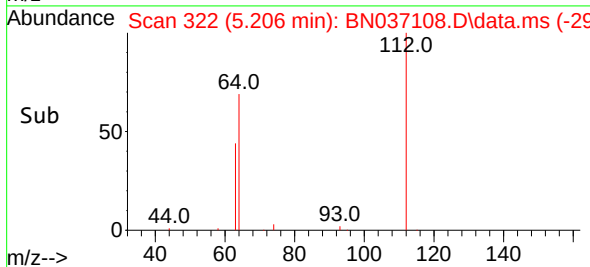
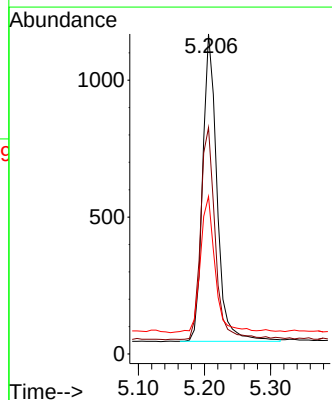
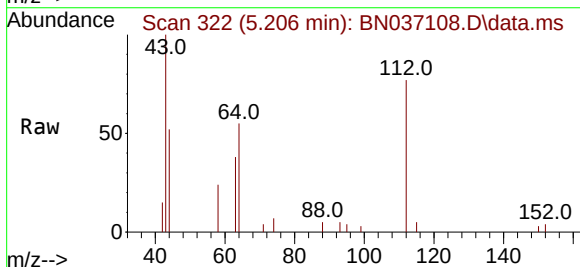
Instrument :  
BNA\_N  
ClientSampleId :  
PB168155BS

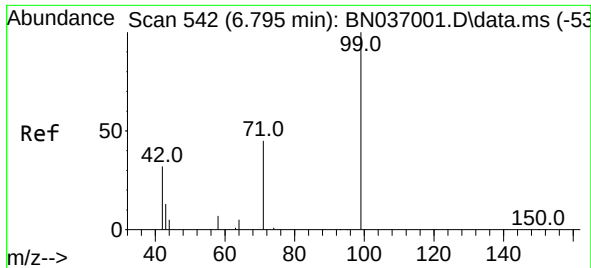
Tgt Ion: 42 Resp: 1826  
Ion Ratio Lower Upper  
42 100  
74 66.4 59.8 89.6  
44 6.8 11.9 17.9#



#4  
2-Fluorophenol  
Concen: 0.329 ng  
RT: 5.206 min Scan# 322  
Delta R.T. -0.007 min  
Lab File: BN037108.D  
Acq: 28 May 2025 14:17

Tgt Ion: 112 Resp: 1695  
Ion Ratio Lower Upper  
112 100  
64 70.3 55.7 83.5  
63 45.5 34.6 51.8

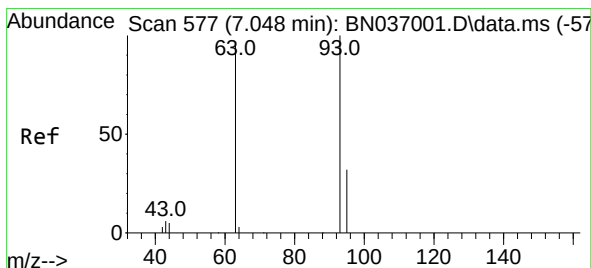
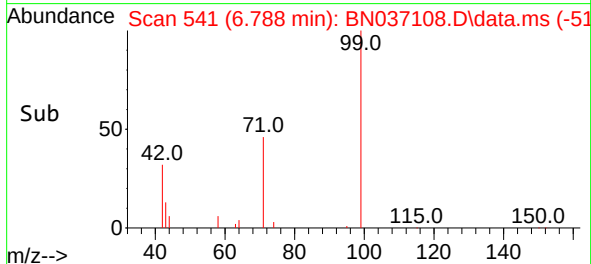
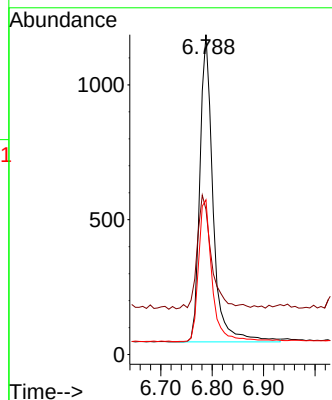
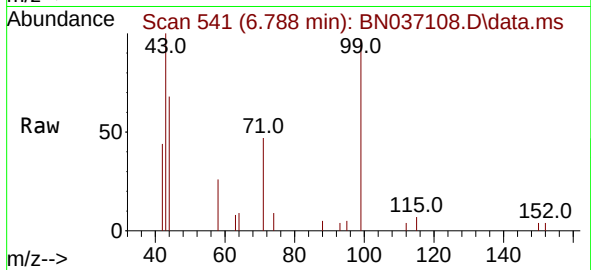




#5  
Phenol-d6  
Concen: 0.314 ng  
RT: 6.788 min Scan# 541  
Delta R.T. -0.007 min  
Lab File: BN037108.D  
Acq: 28 May 2025 14:17

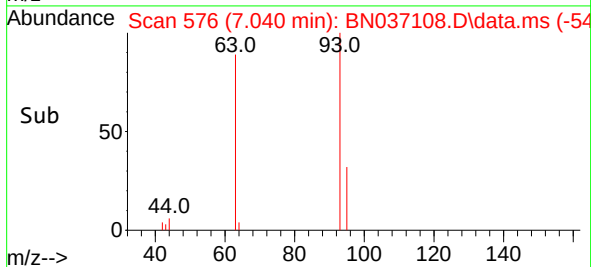
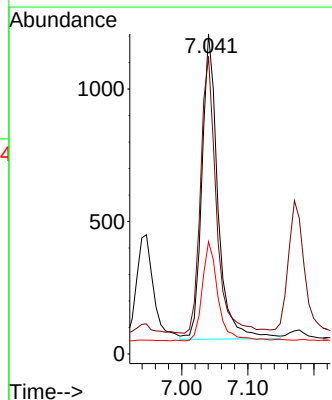
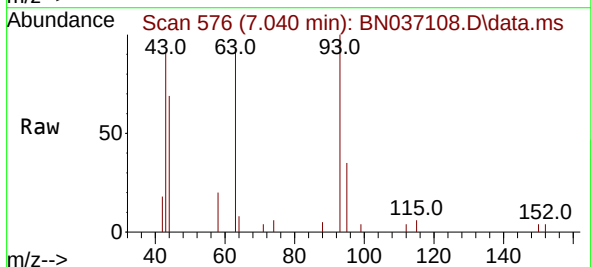
Instrument :  
BNA\_N  
ClientSampleId :  
PB168155BS

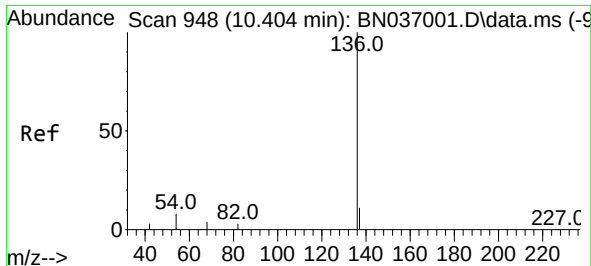
Tgt Ion: 99 Resp: 2029  
Ion Ratio Lower Upper  
99 100  
42 40.2 29.3 43.9  
71 48.2 35.7 53.5



#6  
bis(2-Chloroethyl)ether  
Concen: 0.326 ng  
RT: 7.040 min Scan# 576  
Delta R.T. -0.007 min  
Lab File: BN037108.D  
Acq: 28 May 2025 14:17

Tgt Ion: 93 Resp: 1934  
Ion Ratio Lower Upper  
93 100  
63 89.4 70.1 105.1  
95 31.7 26.2 39.2

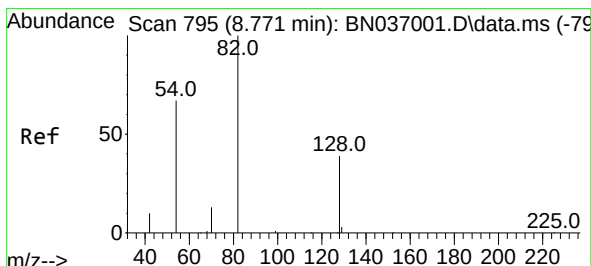
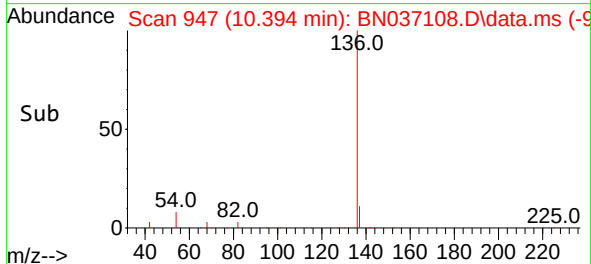
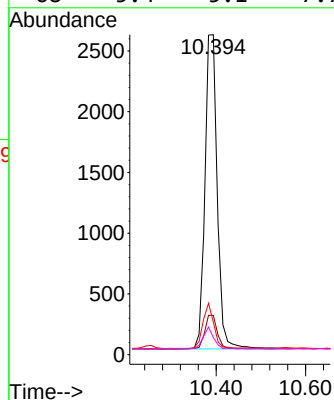
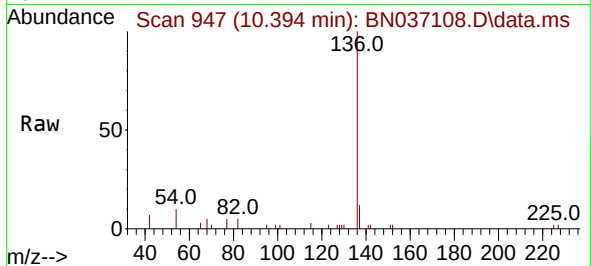




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.394 min Scan# 948  
Delta R.T. -0.011 min  
Lab File: BN037108.D  
Acq: 28 May 2025 14:17

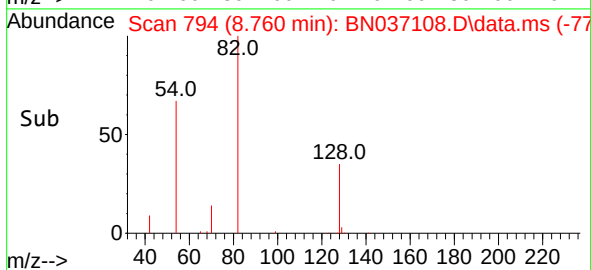
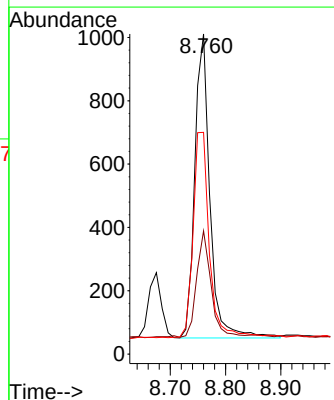
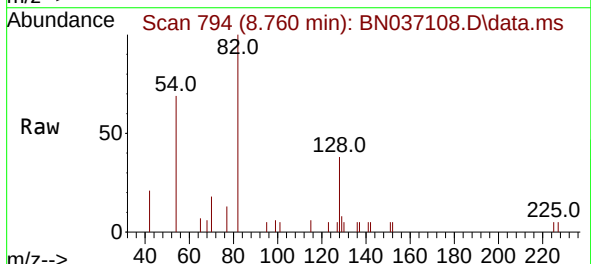
Instrument :  
BNA\_N  
ClientSampleId :  
PB168155BS

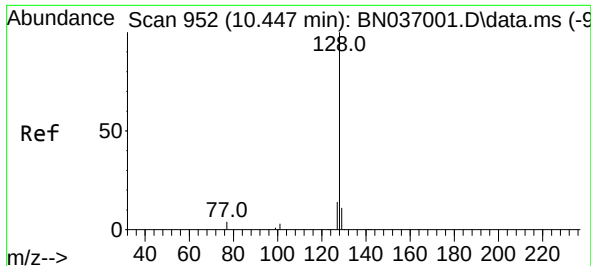
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 4930  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 12.3  | 10.4  | 15.6  |
| 54       | 10.2  | 8.5   | 12.7  |
| 68       | 5.4   | 5.1   | 7.7   |



#8  
Nitrobenzene-d5  
Concen: 0.340 ng  
RT: 8.760 min Scan# 794  
Delta R.T. -0.011 min  
Lab File: BN037108.D  
Acq: 28 May 2025 14:17

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 1824  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 38.5  | 34.0  | 51.0  |
| 54       | 69.2  | 55.0  | 82.4  |

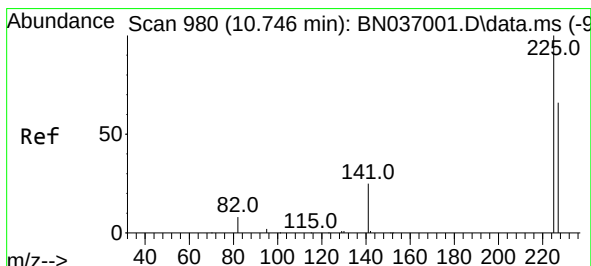
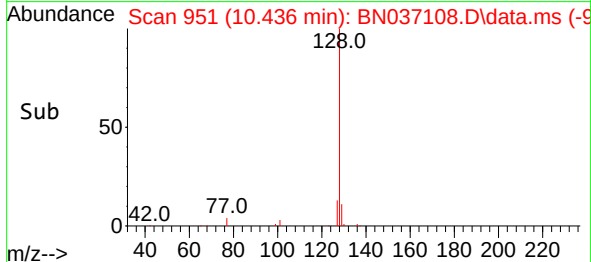
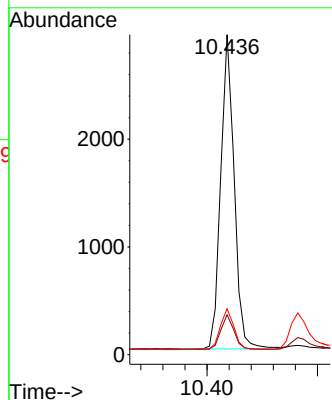
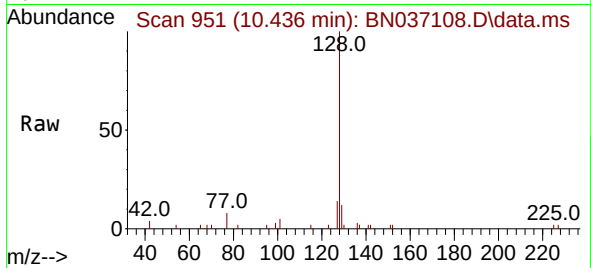




#9  
Naphthalene  
Concen: 0.339 ng  
RT: 10.436 min Scan# 91  
Delta R.T. -0.011 min  
Lab File: BN037108.D  
Acq: 28 May 2025 14:17

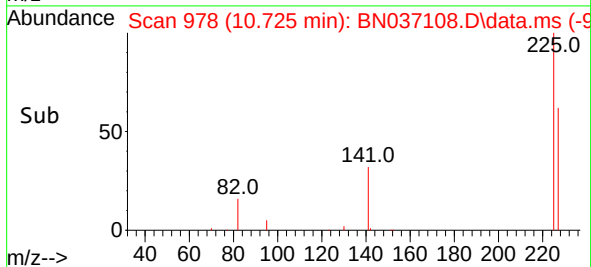
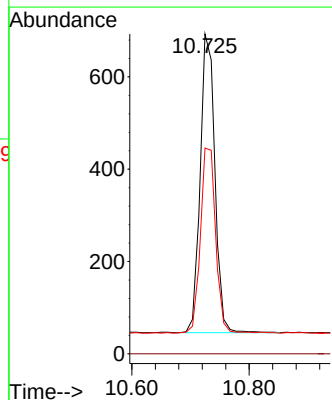
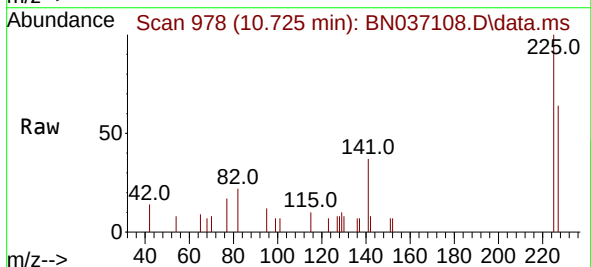
Instrument :  
BNA\_N  
ClientSampleId :  
PB168155BS

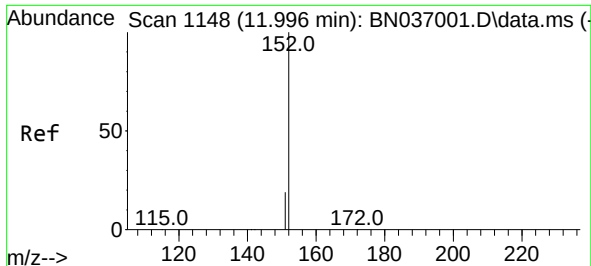
Tgt Ion:128 Resp: 4935  
Ion Ratio Lower Upper  
128 100  
129 12.5 9.7 14.5  
127 14.4 12.4 18.6



#10  
Hexachlorobutadiene  
Concen: 0.369 ng  
RT: 10.725 min Scan# 978  
Delta R.T. -0.021 min  
Lab File: BN037108.D  
Acq: 28 May 2025 14:17

Tgt Ion:225 Resp: 1127  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 64.4 50.9 76.3

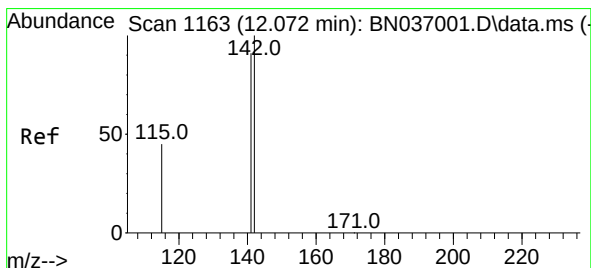
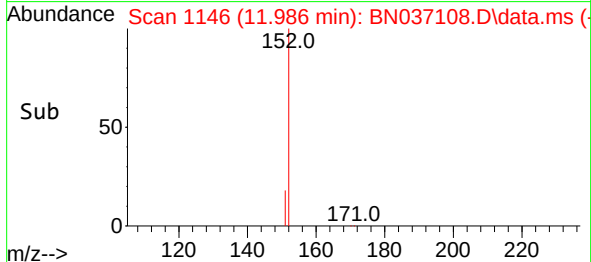
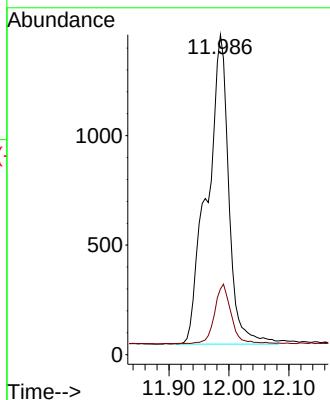
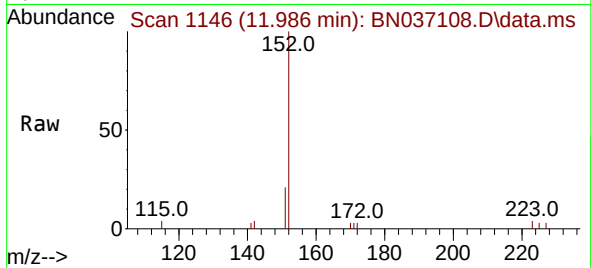




#11  
2-Methylnaphthalene-d10  
Concen: 0.511 ng  
RT: 11.986 min Scan# 1146  
Delta R.T. -0.010 min  
Lab File: BN037108.D  
Acq: 28 May 2025 14:17

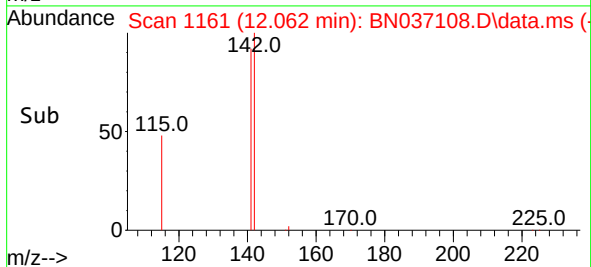
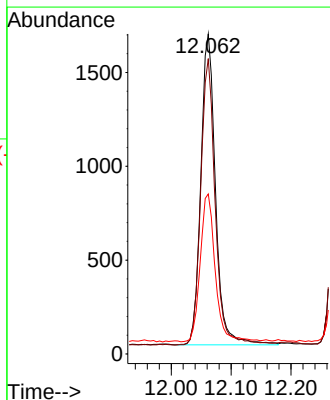
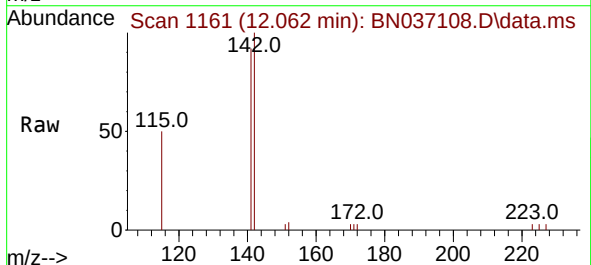
Instrument :  
BNA\_N  
ClientSampleId :  
PB168155BS

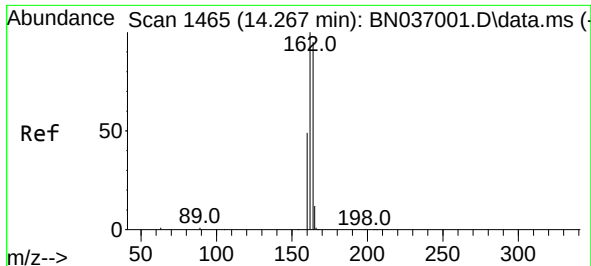
Tgt Ion:152 Resp: 3544  
Ion Ratio Lower Upper  
152 100  
151 14.7 17.5 26.3#



#12  
2-Methylnaphthalene  
Concen: 0.301 ng  
RT: 12.062 min Scan# 1161  
Delta R.T. -0.010 min  
Lab File: BN037108.D  
Acq: 28 May 2025 14:17

Tgt Ion:142 Resp: 2819  
Ion Ratio Lower Upper  
142 100  
141 92.3 73.3 109.9  
115 50.0 38.4 57.6

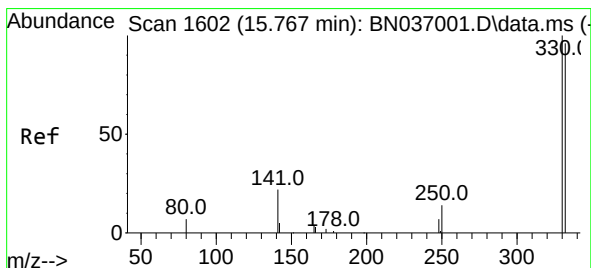
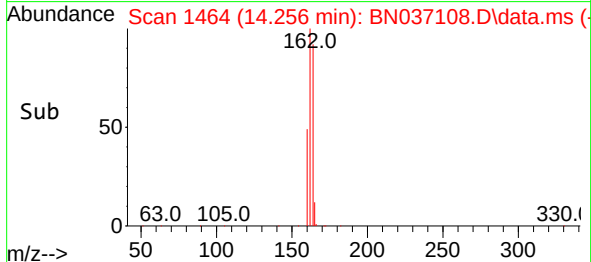
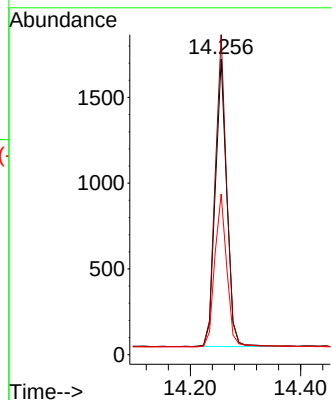
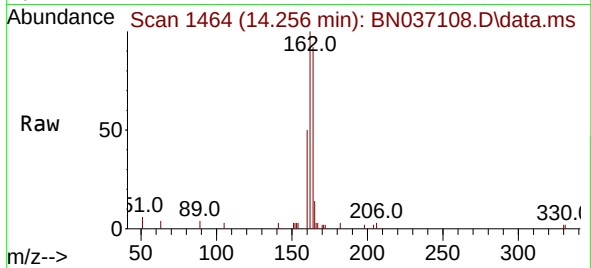




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.256 min Scan# 1464  
Delta R.T. -0.011 min  
Lab File: BN037108.D  
Acq: 28 May 2025 14:17

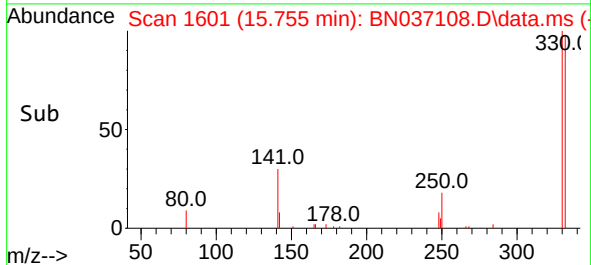
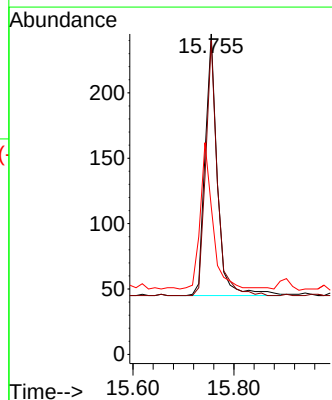
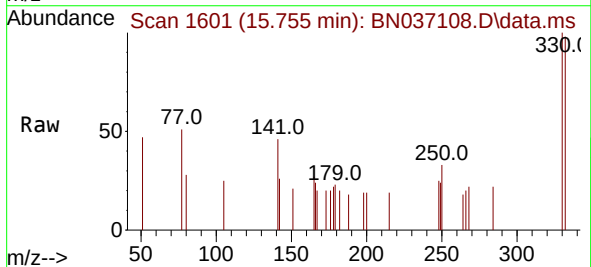
Instrument :  
BNA\_N  
ClientSampleId :  
PB168155BS

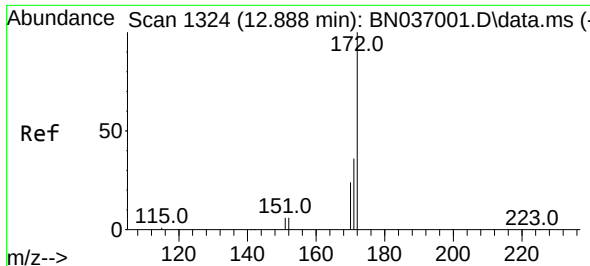
Tgt Ion:164 Resp: 2429  
Ion Ratio Lower Upper  
164 100  
162 108.3 84.2 126.4  
160 54.4 42.6 63.8



#14  
2,4,6-Tribromophenol  
Concen: 0.316 ng  
RT: 15.755 min Scan# 1601  
Delta R.T. -0.012 min  
Lab File: BN037108.D  
Acq: 28 May 2025 14:17

Tgt Ion:330 Resp: 337  
Ion Ratio Lower Upper  
330 100  
332 93.2 73.8 110.8  
141 56.7 43.9 65.9

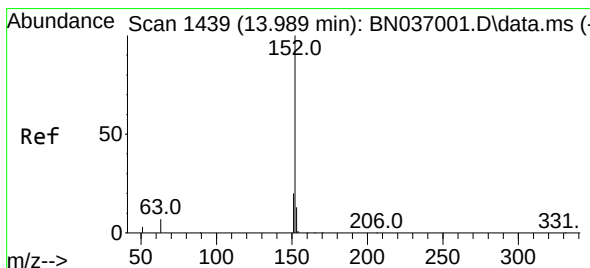
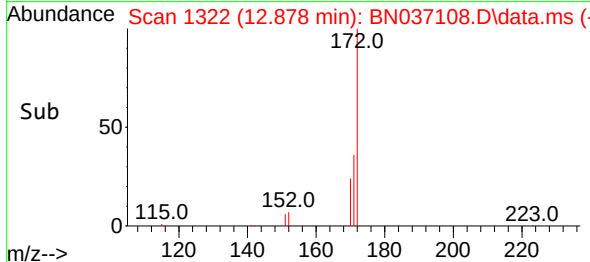
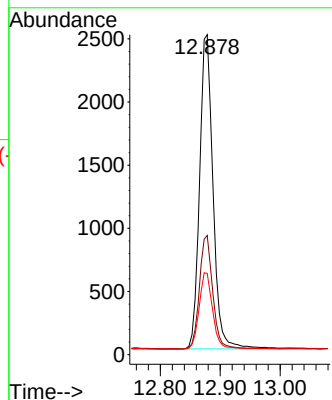
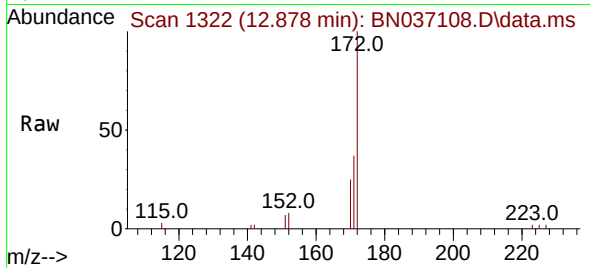




#15  
2-Fluorobiphenyl  
Concen: 0.348 ng  
RT: 12.878 min Scan# 11  
Delta R.T. -0.010 min  
Lab File: BN037108.D  
Acq: 28 May 2025 14:17

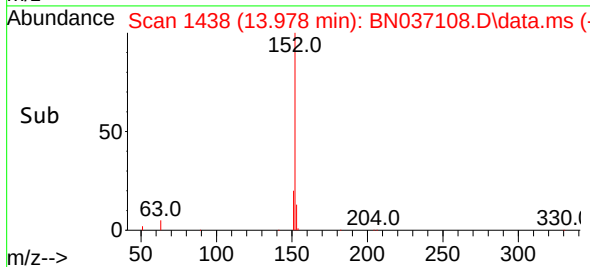
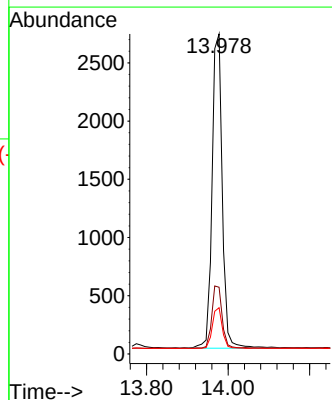
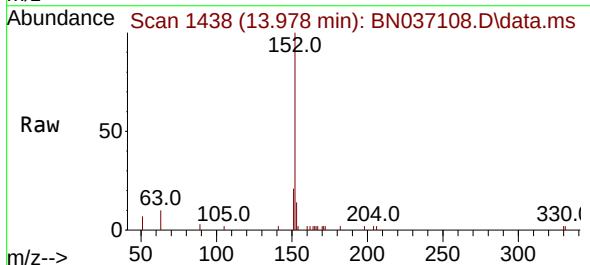
Instrument :  
BNA\_N  
ClientSampleId :  
PB168155BS

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:172 | Resp: | 3875      |
| Ion Ratio   | Lower | Upper     |
| 172         | 100   |           |
| 171         | 37.3  | 29.2 43.8 |
| 170         | 25.4  | 20.5 30.7 |

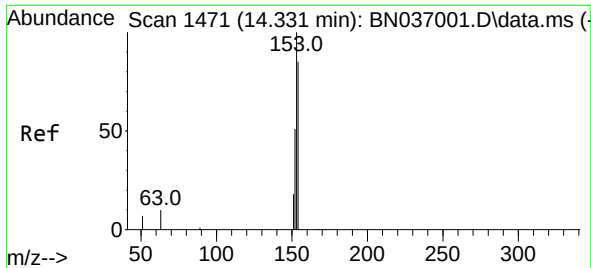


#16  
Acenaphthylene  
Concen: 0.396 ng  
RT: 13.978 min Scan# 1438  
Delta R.T. -0.011 min  
Lab File: BN037108.D  
Acq: 28 May 2025 14:17

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:152 | Resp: | 4684      |
| Ion Ratio   | Lower | Upper     |
| 152         | 100   |           |
| 151         | 20.0  | 16.1 24.1 |
| 153         | 12.7  | 10.5 15.7 |



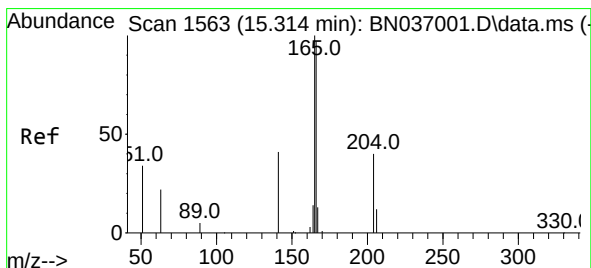
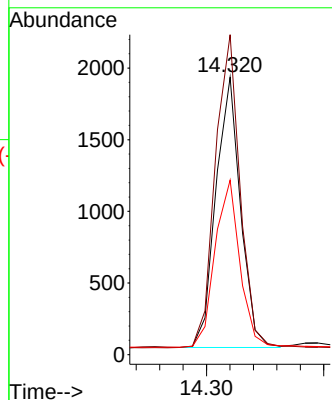
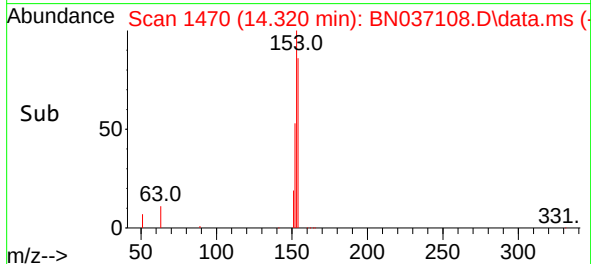
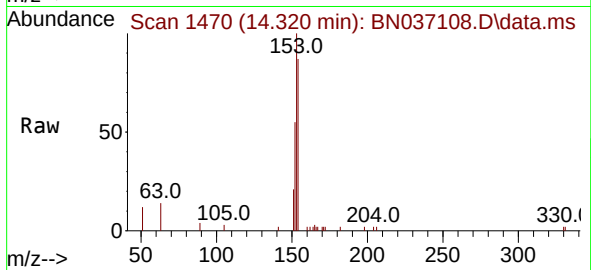




#17  
Acenaphthene  
Concen: 0.356 ng  
RT: 14.320 min Scan# 1471  
Delta R.T. -0.011 min  
Lab File: BN037108.D  
Acq: 28 May 2025 14:17

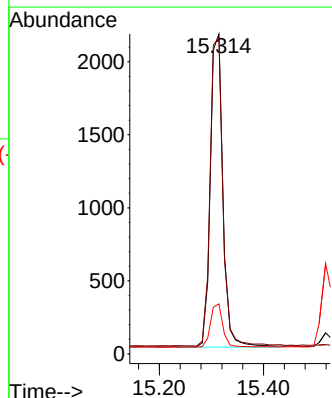
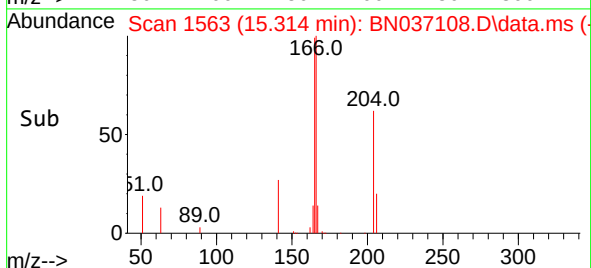
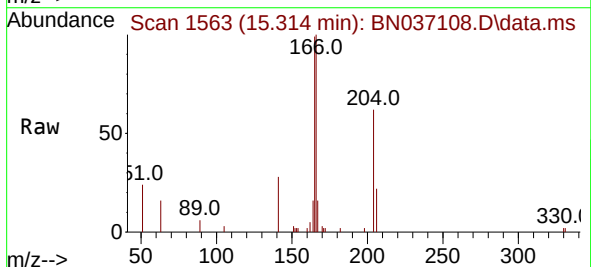
Instrument :  
BNA\_N  
ClientSampleId :  
PB168155BS

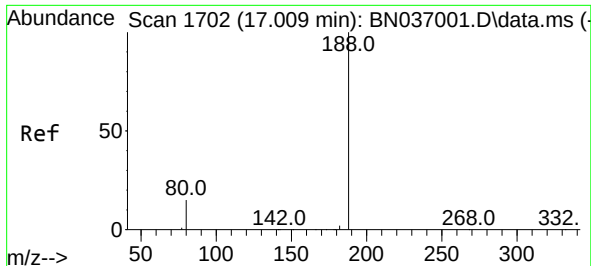
Tgt Ion:154 Resp: 2750  
Ion Ratio Lower Upper  
154 100  
153 117.0 94.2 141.4  
152 63.0 49.4 74.0



#18  
Fluorene  
Concen: 0.351 ng  
RT: 15.314 min Scan# 1563  
Delta R.T. 0.000 min  
Lab File: BN037108.D  
Acq: 28 May 2025 14:17

Tgt Ion:166 Resp: 3561  
Ion Ratio Lower Upper  
166 100  
165 99.7 80.6 120.8  
167 14.0 10.6 16.0

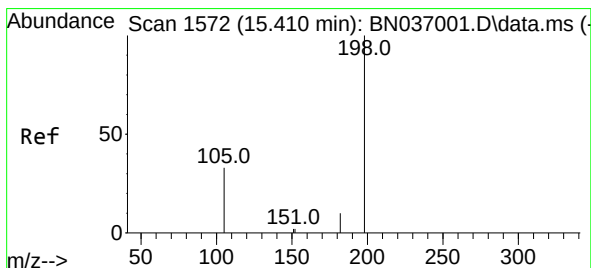
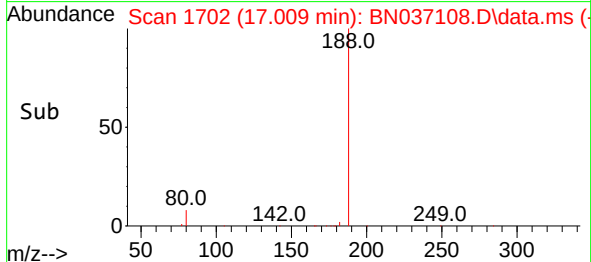
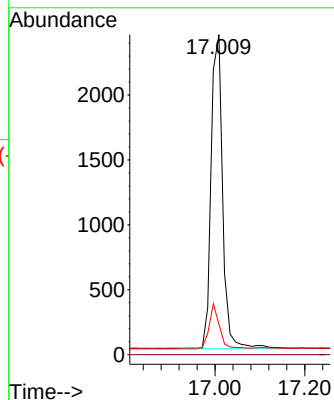
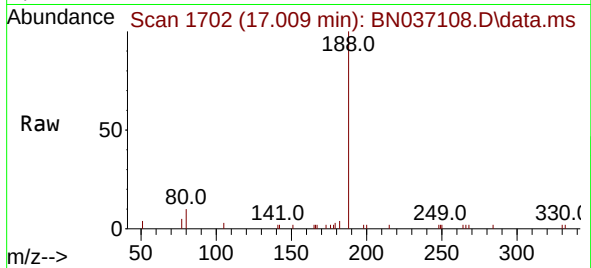




#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 17.009 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: BN037108.D  
Acq: 28 May 2025 14:17

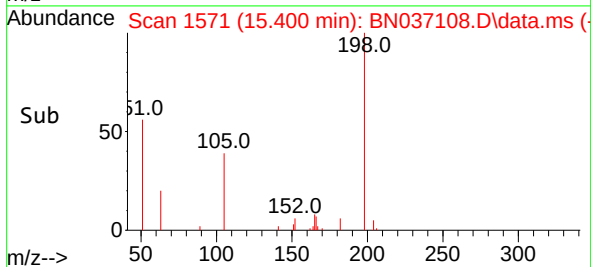
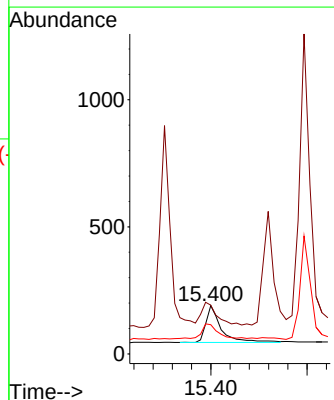
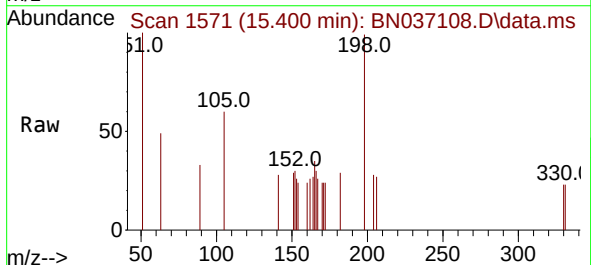
Instrument :  
BNA\_N  
ClientSampleId :  
PB168155BS

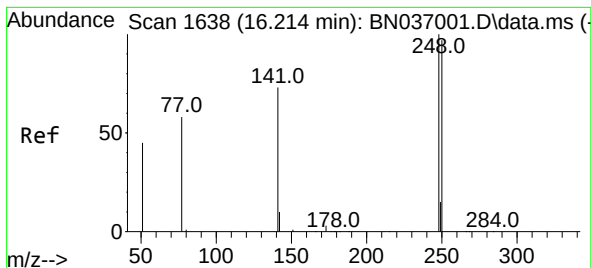
Tgt Ion:188 Resp: 4326  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 9.6 13.4 20.0#



#20  
4,6-Dinitro-2-methylphenol  
Concen: 0.393 ng  
RT: 15.400 min Scan# 1571  
Delta R.T. -0.010 min  
Lab File: BN037108.D  
Acq: 28 May 2025 14:17

Tgt Ion:198 Resp: 328  
Ion Ratio Lower Upper  
198 100  
51 101.1 87.8 131.6  
105 60.5 44.2 66.4

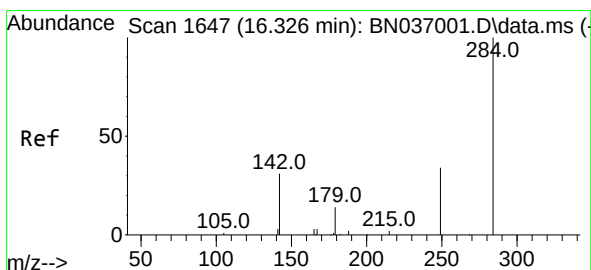
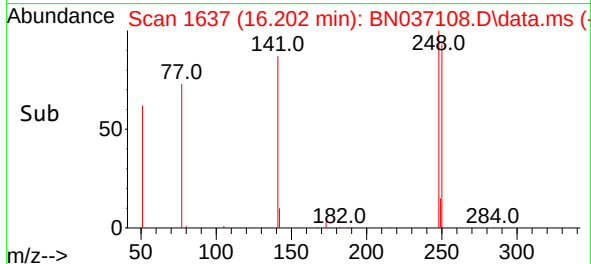
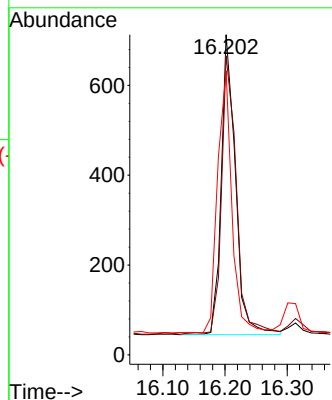
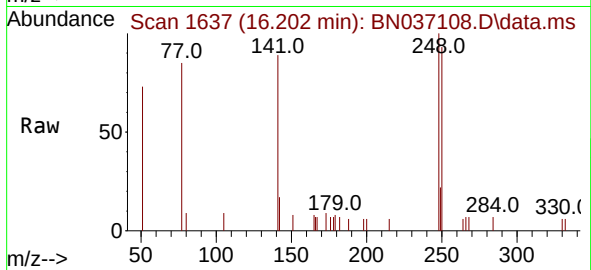




#21  
4-Bromophenyl-phenylether  
Concen: 0.386 ng  
RT: 16.202 min Scan# 1637  
Delta R.T. -0.012 min  
Lab File: BN037108.D  
Acq: 28 May 2025 14:17

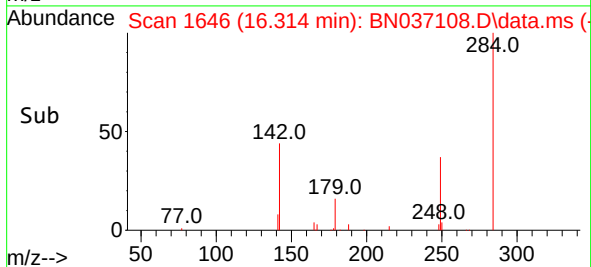
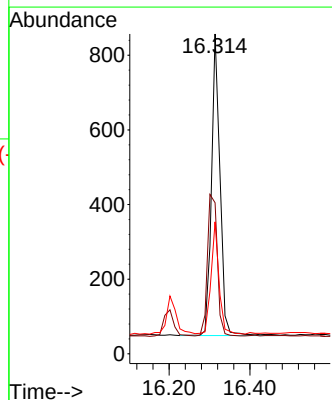
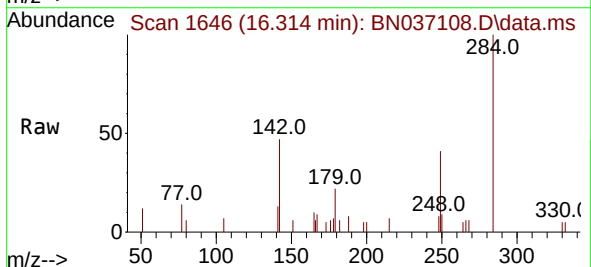
Instrument :  
BNA\_N  
ClientSampleId :  
PB168155BS

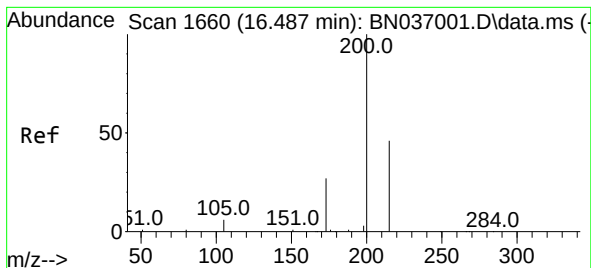
Tgt Ion:248 Resp: 1056  
Ion Ratio Lower Upper  
248 100  
250 93.4 78.1 117.1  
141 88.8 59.7 89.5



#22  
Hexachlorobenzene  
Concen: 0.405 ng  
RT: 16.314 min Scan# 1646  
Delta R.T. -0.012 min  
Lab File: BN037108.D  
Acq: 28 May 2025 14:17

Tgt Ion:284 Resp: 1185  
Ion Ratio Lower Upper  
284 100  
142 54.0 41.2 61.8  
249 34.6 28.7 43.1





#23

Atrazine

Concen: 0.358 ng

RT: 16.475 min Scan# 1659

Delta R.T. -0.012 min

Lab File: BN037108.D

Acq: 28 May 2025 14:17

Instrument :

BNA\_N

ClientSampleId :

PB168155BS

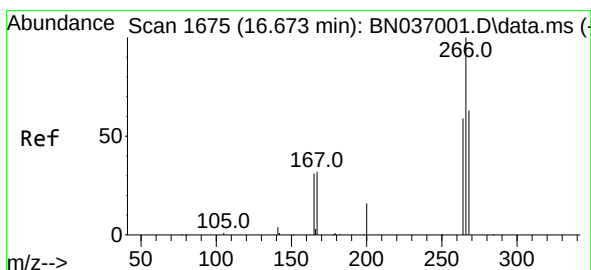
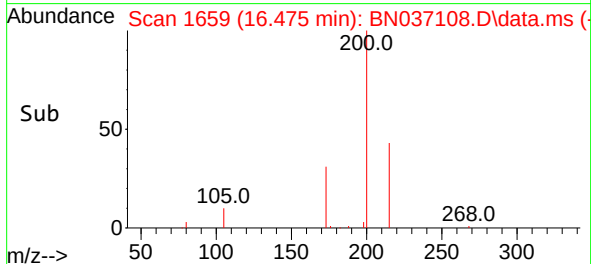
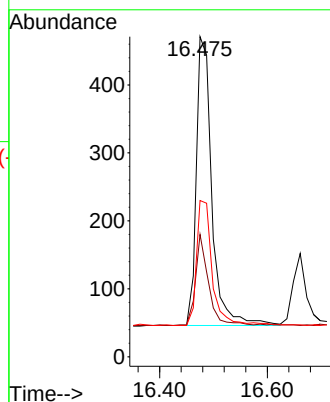
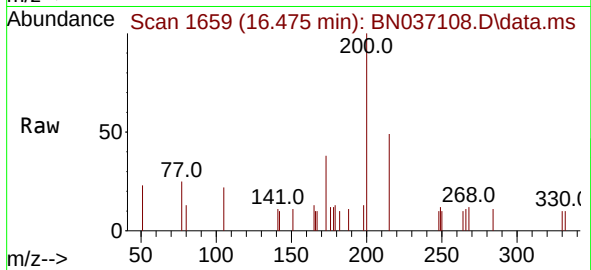
Tgt Ion:200 Resp: 853

Ion Ratio Lower Upper

200 100

173 38.2 25.2 37.8#

215 48.8 39.3 58.9



#24

Pentachlorophenol

Concen: 0.582 ng

RT: 16.661 min Scan# 1674

Delta R.T. -0.012 min

Lab File: BN037108.D

Acq: 28 May 2025 14:17

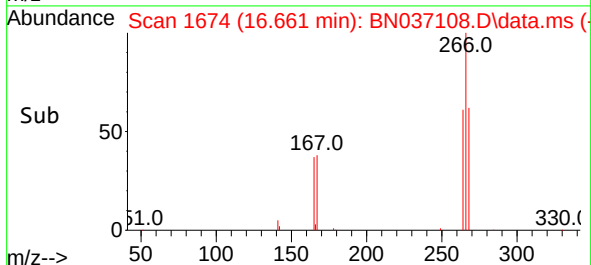
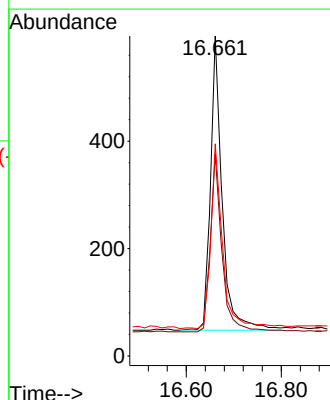
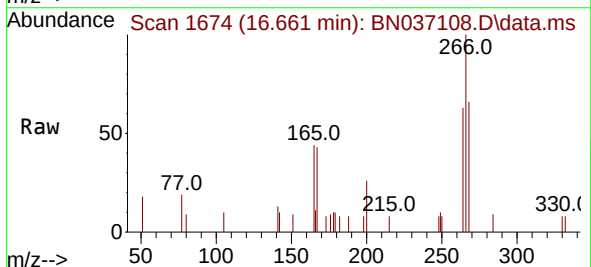
Tgt Ion:266 Resp: 938

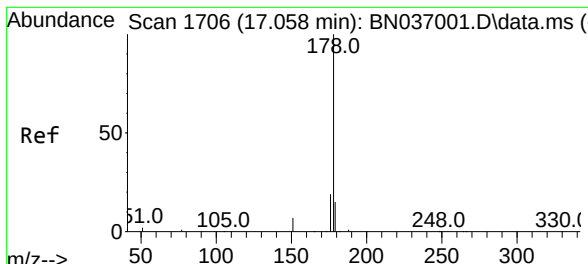
Ion Ratio Lower Upper

266 100

264 60.4 47.9 71.9

268 63.0 50.0 75.0



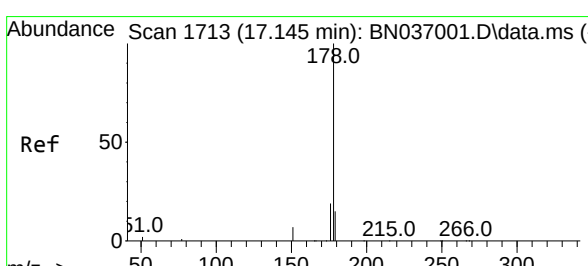
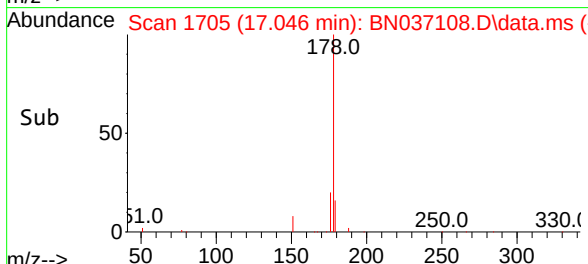
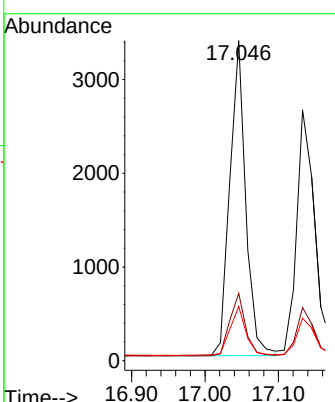
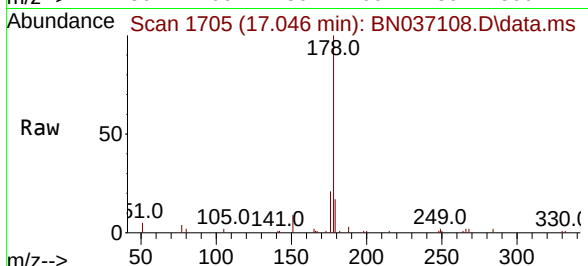


#25  
 Phenanthrene  
 Concen: 0.357 ng  
 RT: 17.046 min Scan# 1712  
 Delta R.T. -0.012 min  
 Lab File: BN037108.D  
 Acq: 28 May 2025 14:17

Instrument : BNA\_N  
 ClientSampleId : PB168155BS

Tgt Ion:178 Resp: 5049

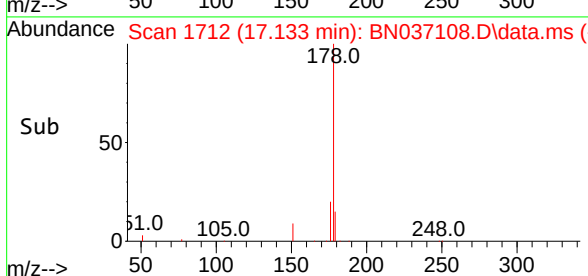
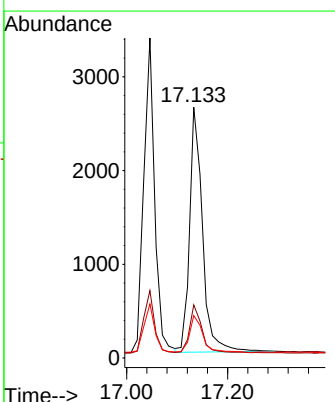
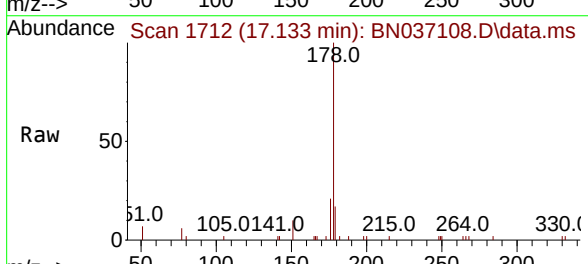
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 176 | 19.5  | 15.7  | 23.5  |
| 179 | 15.7  | 12.2  | 18.2  |

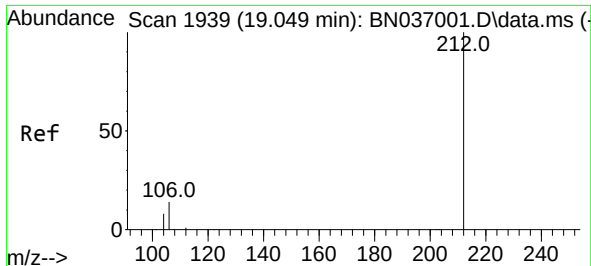


#26  
 Anthracene  
 Concen: 0.362 ng  
 RT: 17.133 min Scan# 1712  
 Delta R.T. -0.012 min  
 Lab File: BN037108.D  
 Acq: 28 May 2025 14:17

Tgt Ion:178 Resp: 4654

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 176 | 18.8  | 15.0  | 22.6  |
| 179 | 15.3  | 12.3  | 18.5  |

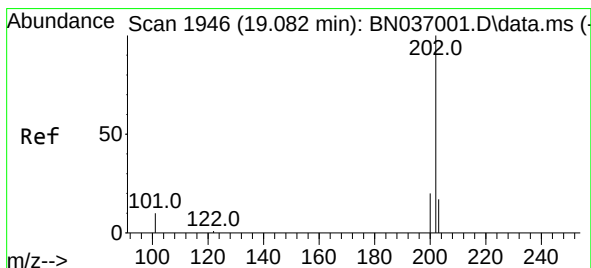
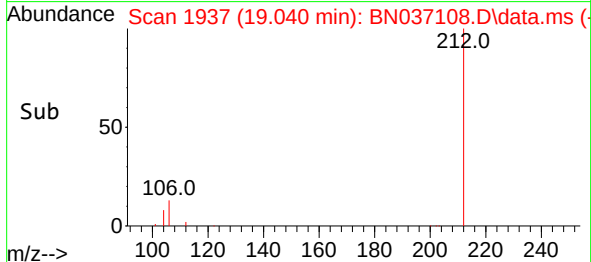
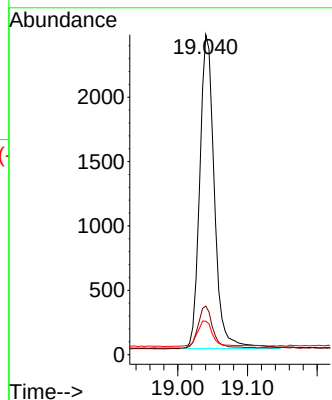
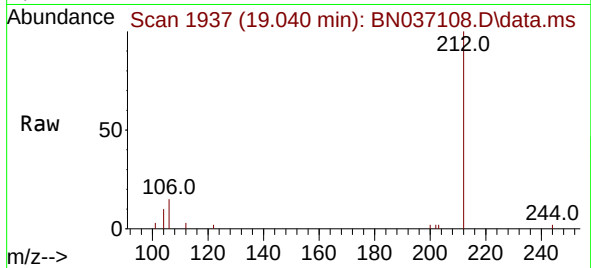




#27  
Fluoranthene-d10  
Concen: 0.301 ng  
RT: 19.040 min Scan# 1937  
Delta R.T. -0.009 min  
Lab File: BN037108.D  
Acq: 28 May 2025 14:17

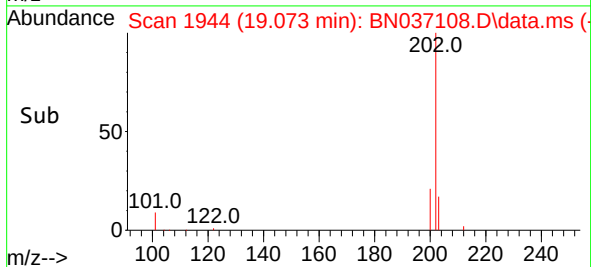
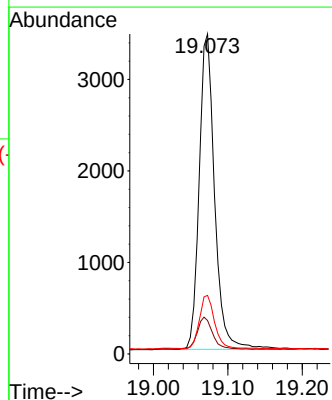
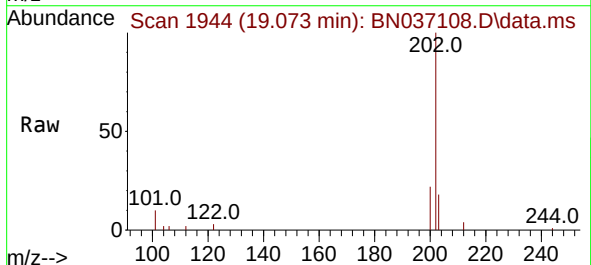
Instrument :  
BNA\_N  
ClientSampleId :  
PB168155BS

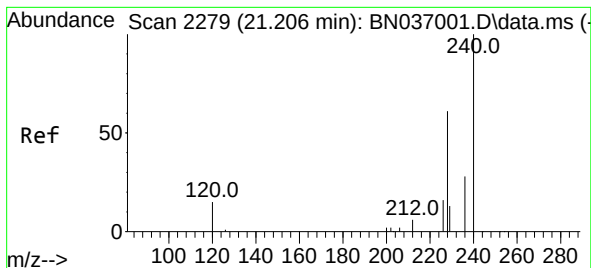
Tgt Ion:212 Resp: 3574  
Ion Ratio Lower Upper  
212 100  
106 13.5 11.3 16.9  
104 8.6 6.7 10.1



#28  
Fluoranthene  
Concen: 0.294 ng  
RT: 19.073 min Scan# 1944  
Delta R.T. -0.009 min  
Lab File: BN037108.D  
Acq: 28 May 2025 14:17

Tgt Ion:202 Resp: 4961  
Ion Ratio Lower Upper  
202 100  
101 10.2 8.9 13.3  
203 16.8 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.198 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037108.D

Acq: 28 May 2025 14:17

Instrument :

BNA\_N

ClientSampleId :

PB168155BS

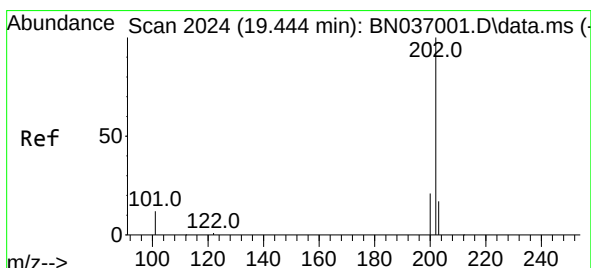
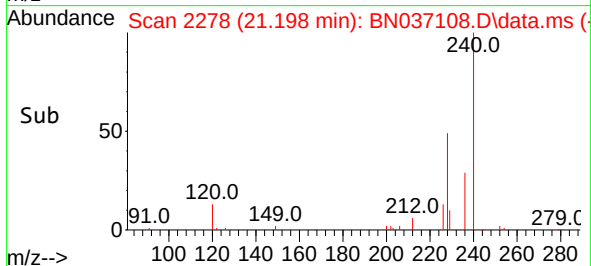
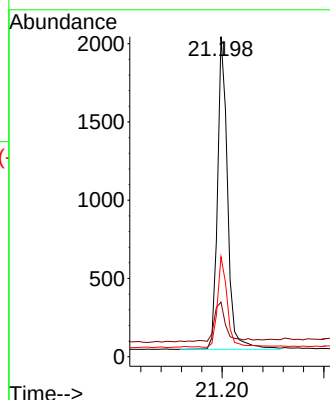
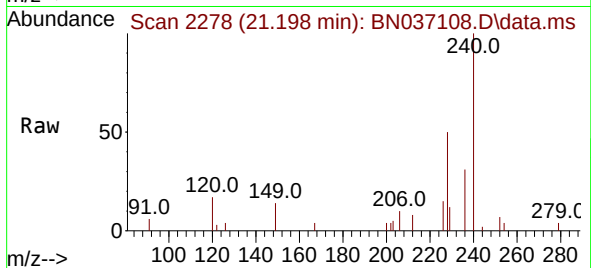
Tgt Ion:240 Resp: 2746

Ion Ratio Lower Upper

240 100

120 17.1 15.1 22.7

236 31.2 24.0 36.0



#30

Pyrene

Concen: 0.418 ng

RT: 19.435 min Scan# 2022

Delta R.T. -0.009 min

Lab File: BN037108.D

Acq: 28 May 2025 14:17

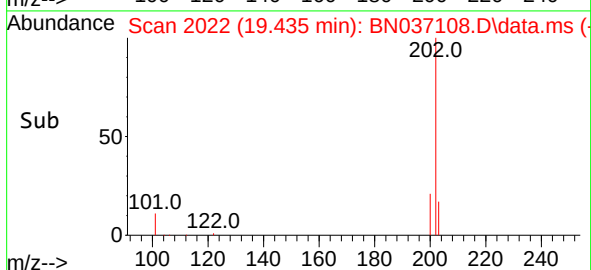
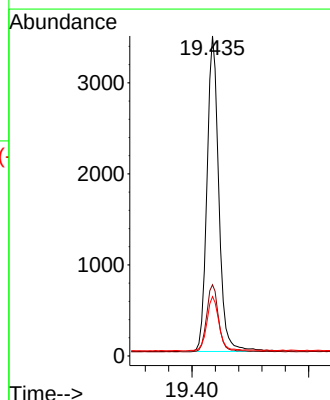
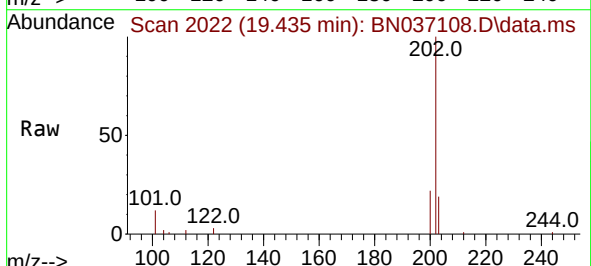
Tgt Ion:202 Resp: 4905

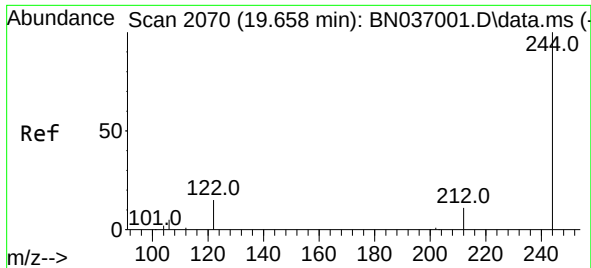
Ion Ratio Lower Upper

202 100

200 21.4 17.1 25.7

203 17.9 14.2 21.4

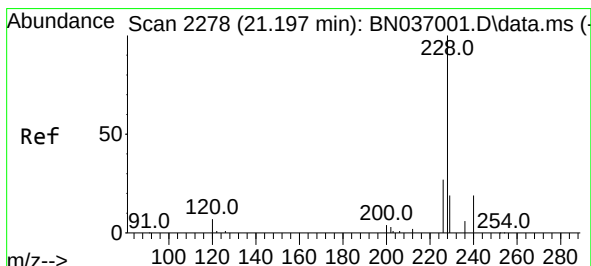
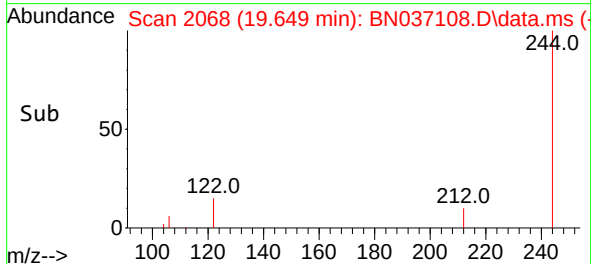
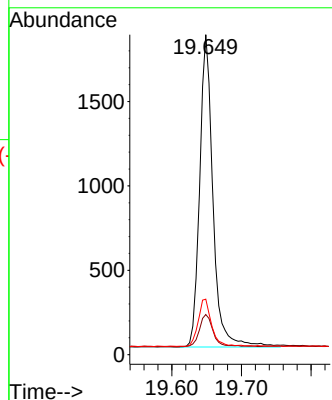
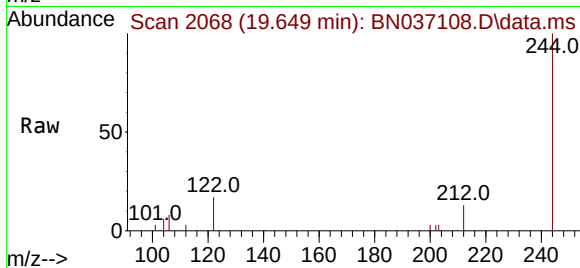




#31  
 Terphenyl-d14  
 Concen: 0.420 ng  
 RT: 19.649 min Scan# 2068  
 Delta R.T. -0.009 min  
 Lab File: BN037108.D  
 Acq: 28 May 2025 14:17

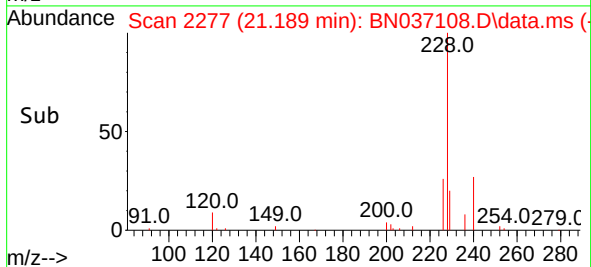
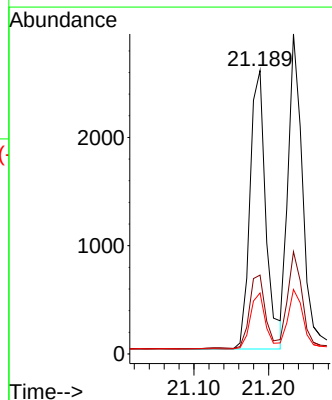
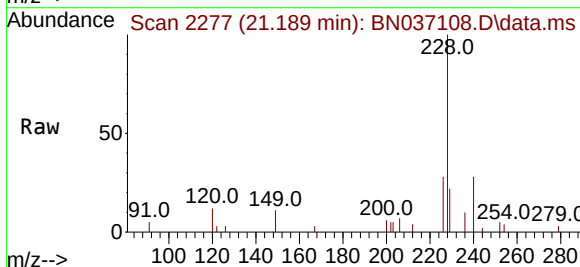
Instrument :  
 BNA\_N  
 ClientSampleId :  
 PB168155BS

Tgt Ion:244 Resp: 2465  
 Ion Ratio Lower Upper  
 244 100  
 212 12.6 9.7 14.5  
 122 17.4 13.4 20.0

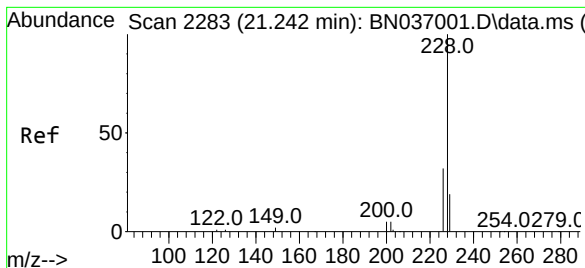


#32  
 Benzo(a)anthracene  
 Concen: 0.370 ng  
 RT: 21.189 min Scan# 2277  
 Delta R.T. -0.009 min  
 Lab File: BN037108.D  
 Acq: 28 May 2025 14:17

Tgt Ion:228 Resp: 3830  
 Ion Ratio Lower Upper  
 228 100  
 226 27.8 22.2 33.4  
 229 21.5 16.0 24.0







#33

Chrysene

Concen: 0.366 ng

RT: 21.233 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037108.D

Acq: 28 May 2025 14:17

Instrument :

BNA\_N

ClientSampleId :

PB168155BS

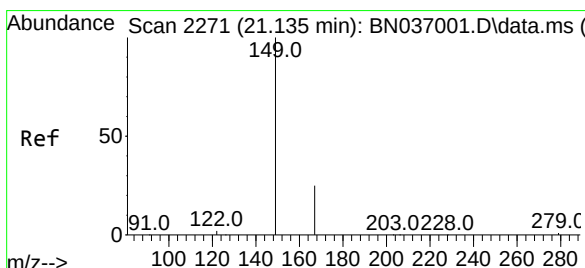
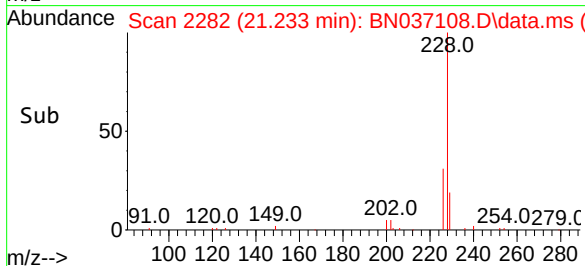
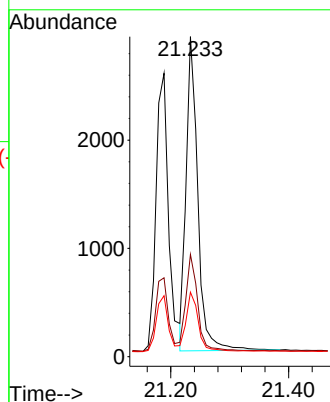
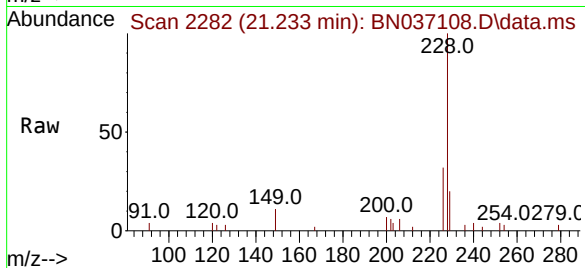
Tgt Ion:228 Resp: 4002

Ion Ratio Lower Upper

228 100

226 32.0 26.3 39.5

229 20.1 16.2 24.2



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.352 ng

RT: 21.126 min Scan# 2270

Delta R.T. -0.009 min

Lab File: BN037108.D

Acq: 28 May 2025 14:17

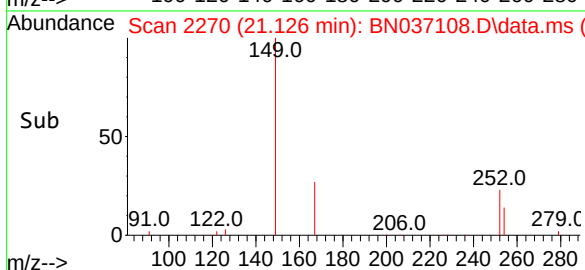
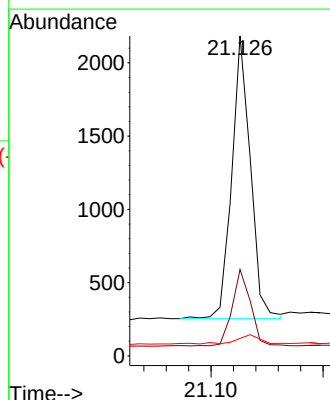
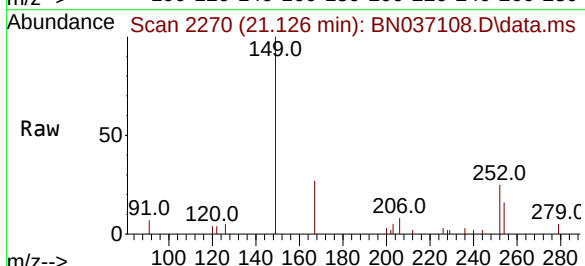
Tgt Ion:149 Resp: 2238

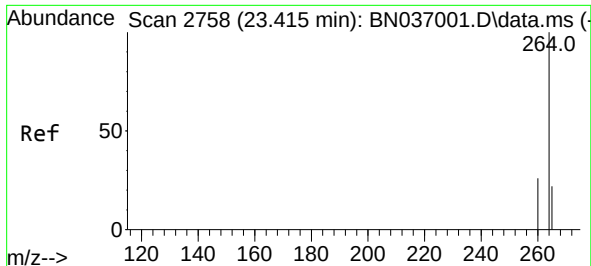
Ion Ratio Lower Upper

149 100

167 26.5 20.6 30.8

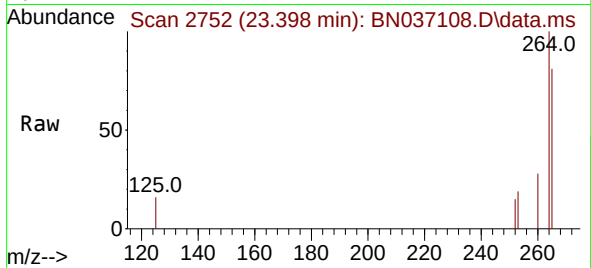
279 3.3 2.6 3.8



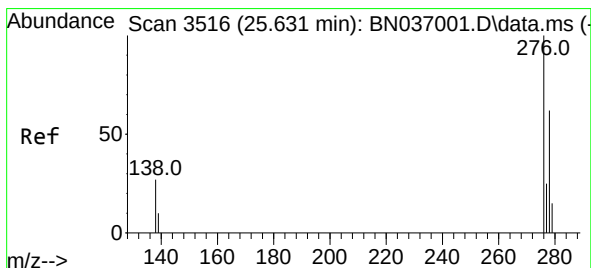
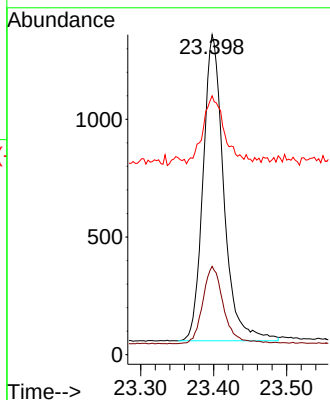


#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.398 min Scan# 21  
Delta R.T. -0.017 min  
Lab File: BN037108.D  
Acq: 28 May 2025 14:17

Instrument :  
BNA\_N  
ClientSampleId :  
PB168155BS

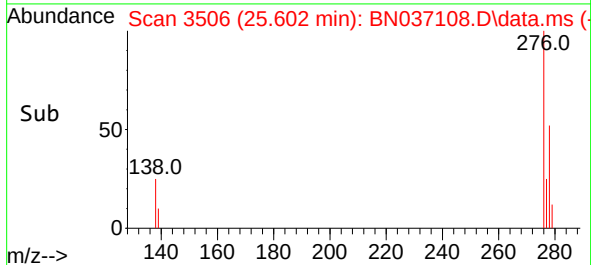
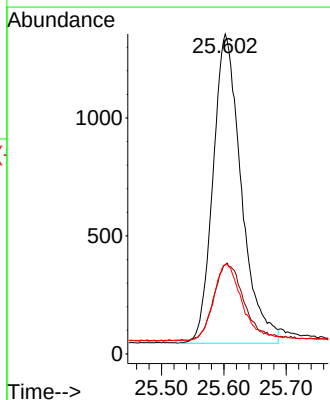
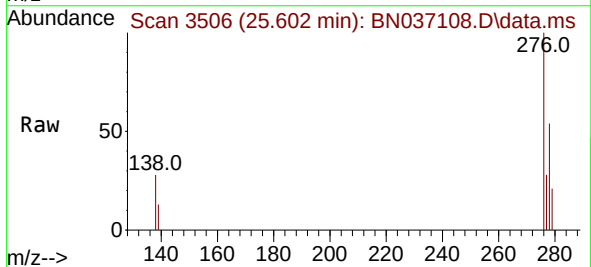


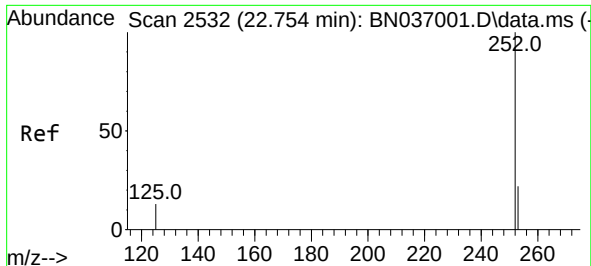
Tgt Ion:264 Resp: 2563  
Ion Ratio Lower Upper  
264 100  
260 27.6 21.9 32.9  
265 80.9 51.6 77.4#



#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.395 ng  
RT: 25.602 min Scan# 3506  
Delta R.T. -0.029 min  
Lab File: BN037108.D  
Acq: 28 May 2025 14:17

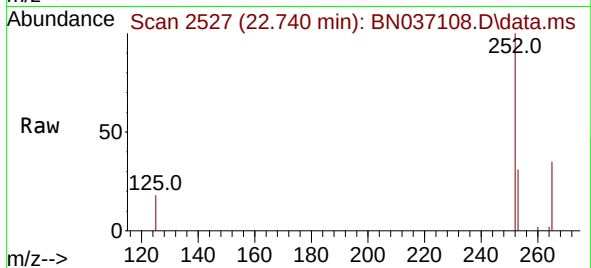
Tgt Ion:276 Resp: 4131  
Ion Ratio Lower Upper  
276 100  
138 27.1 22.7 34.1  
277 25.8 20.0 30.0



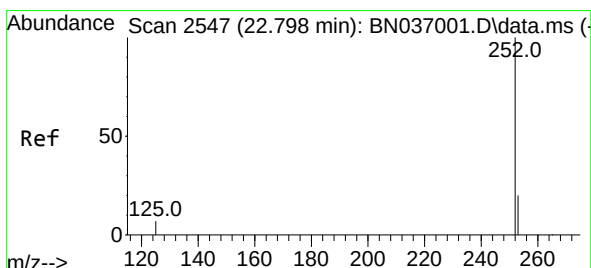
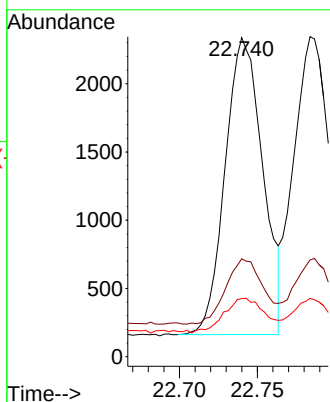
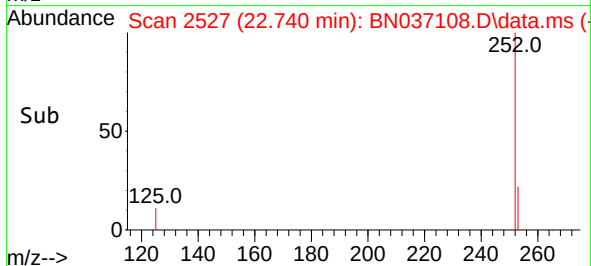


#37  
Benzo(b)fluoranthene  
Concen: 0.344 ng  
RT: 22.740 min Scan# 2527  
Delta R.T. -0.015 min  
Lab File: BN037108.D  
Acq: 28 May 2025 14:17

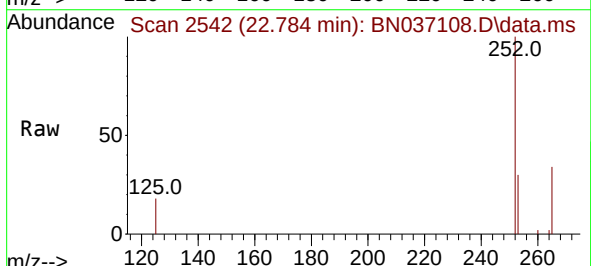
Instrument :  
BNA\_N  
ClientSampleId :  
PB168155BS



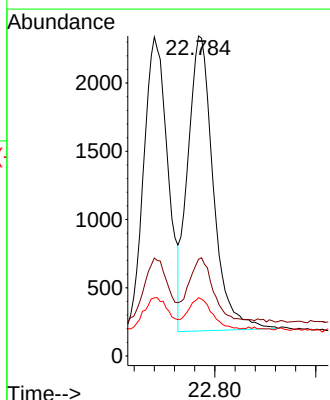
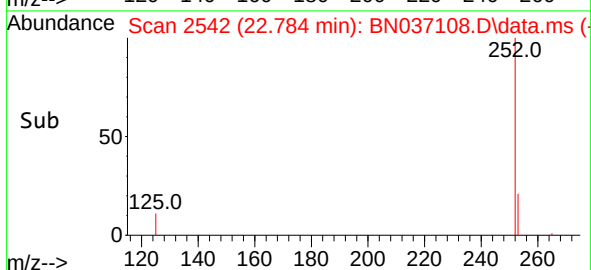
Tgt Ion:252 Resp: 3658  
Ion Ratio Lower Upper  
252 100  
253 30.7 21.8 32.6  
125 18.2 14.6 21.8

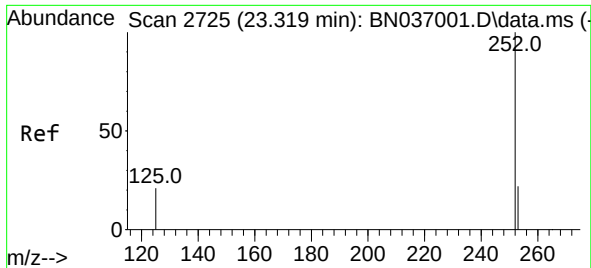


#38  
Benzo(k)fluoranthene  
Concen: 0.361 ng  
RT: 22.784 min Scan# 2542  
Delta R.T. -0.015 min  
Lab File: BN037108.D  
Acq: 28 May 2025 14:17



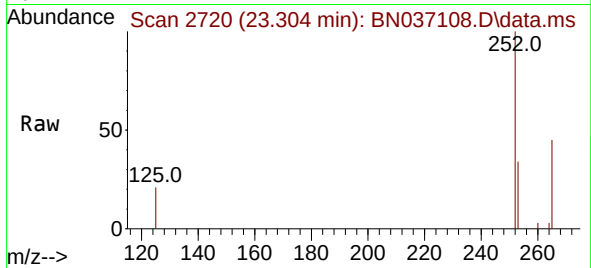
Tgt Ion:252 Resp: 3793  
Ion Ratio Lower Upper  
252 100  
253 30.2 21.4 32.2  
125 18.2 13.0 19.4



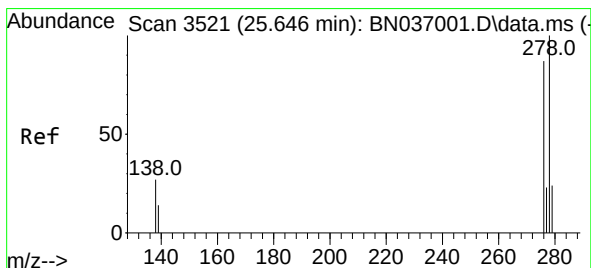
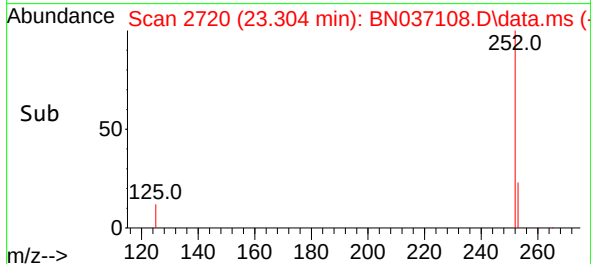
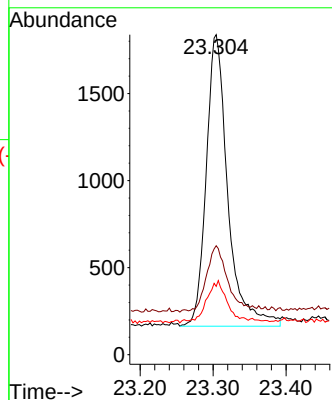


#39  
Benzo(a)pyrene  
Concen: 0.382 ng  
RT: 23.304 min Scan# 21  
Delta R.T. -0.015 min  
Lab File: BN037108.D  
Acq: 28 May 2025 14:17

Instrument :  
BNA\_N  
ClientSampleId :  
PB168155BS

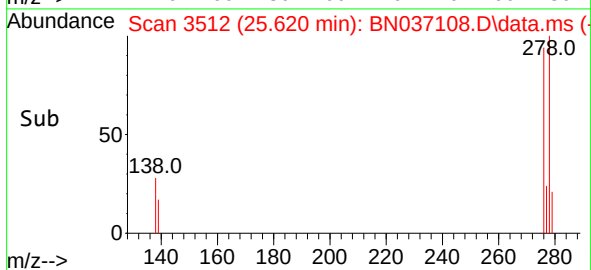
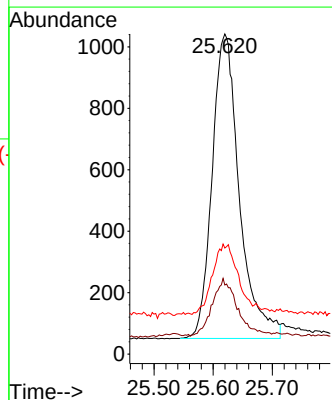
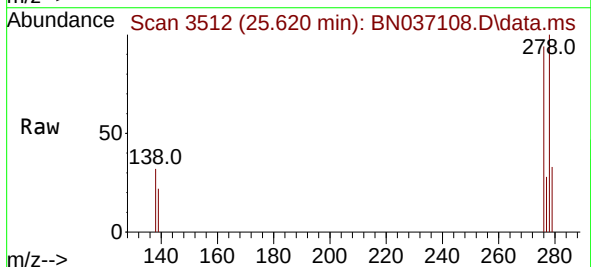


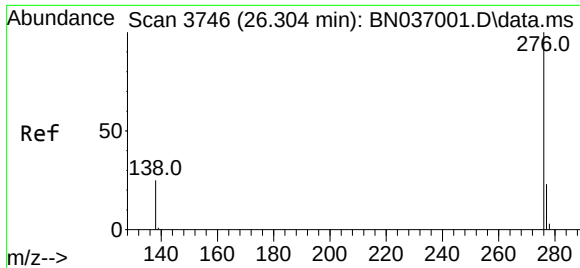
Tgt Ion:252 Resp: 3441  
Ion Ratio Lower Upper  
252 100  
253 34.1 23.8 35.6  
125 21.4 21.8 32.6#



#40  
Dibenzo(a,h)anthracene  
Concen: 0.388 ng  
RT: 25.620 min Scan# 3512  
Delta R.T. -0.026 min  
Lab File: BN037108.D  
Acq: 28 May 2025 14:17

Tgt Ion:278 Resp: 3166  
Ion Ratio Lower Upper  
278 100  
139 21.6 17.4 26.0  
279 33.1 24.6 37.0

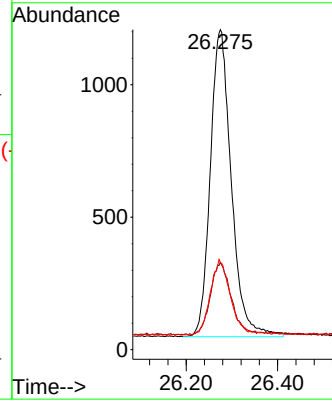
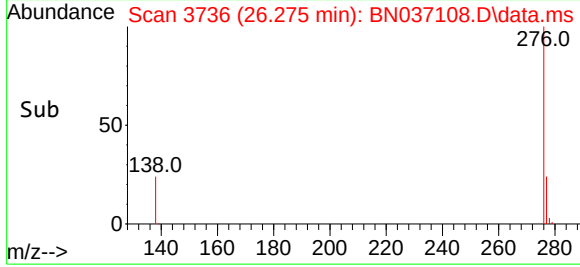
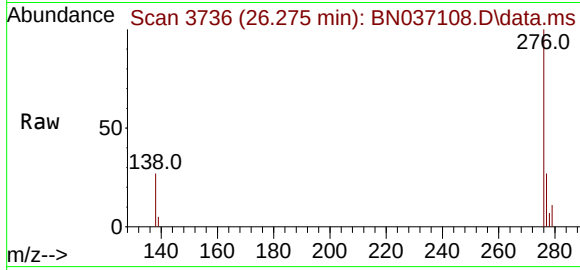




#41  
Benzo(g,h,i)perylene  
Concen: 0.418 ng  
RT: 26.275 min Scan# 31  
Delta R.T. -0.029 min  
Lab File: BN037108.D  
Acq: 28 May 2025 14:17

Instrument :  
BNA\_N  
ClientSampleId :  
PB168155BS

Tgt Ion:276 Resp: 3702  
Ion Ratio Lower Upper  
276 100  
277 27.3 20.2 30.4  
138 27.2 22.0 33.0



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN052825\  
 Data File : BN037109.D  
 Acq On : 28 May 2025 14:53  
 Operator : RC/JU  
 Sample : PB168155BSD  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 PB168155BSD

Quant Time: May 28 15:39:56 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN051425.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 14 11:26:32 2025  
 Response via : Initial Calibration

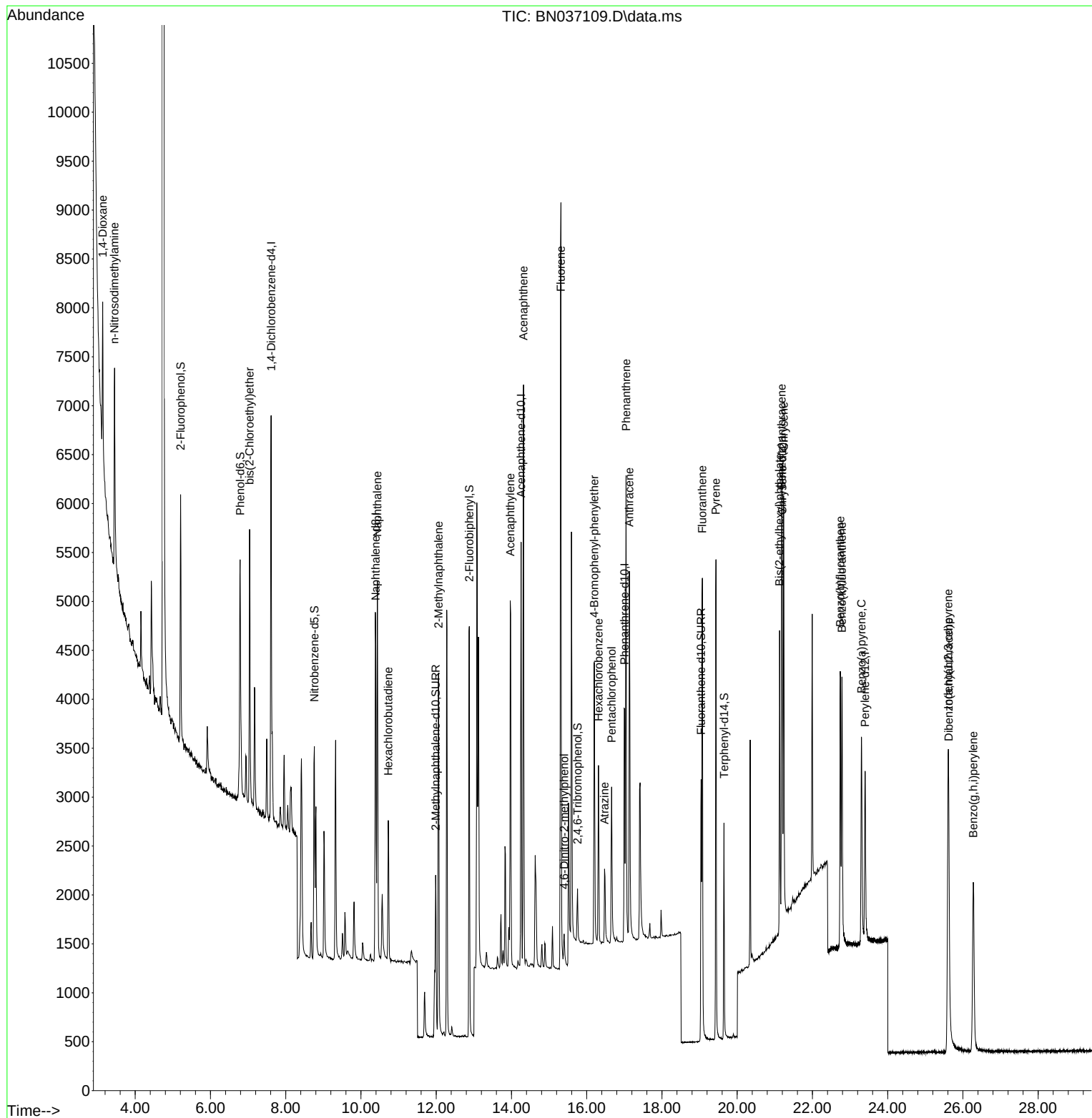
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.611  | 152  | 1893     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.394 | 136  | 4639     | 0.400 | ng    | -0.01    |
| 13) Acenaphthene-d10          | 14.256 | 164  | 2241     | 0.400 | ng    | -0.01    |
| 19) Phenanthrene-d10          | 17.009 | 188  | 3936     | 0.400 | ng    | # 0.00   |
| 29) Chrysene-d12              | 21.198 | 240  | 2452     | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.398 | 264  | 2400     | 0.400 | ng    | #-0.02   |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.206  | 112  | 1694     | 0.342 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.788  | 99   | 1988     | 0.320 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.760  | 82   | 1796     | 0.356 | ng    | -0.01    |
| 11) 2-Methylnaphthalene-d10   | 11.986 | 152  | 3485     | 0.534 | ng    | -0.01    |
| 14) 2,4,6-Tribromophenol      | 15.755 | 330  | 299      | 0.304 | ng    | -0.01    |
| 15) 2-Fluorobiphenyl          | 12.878 | 172  | 3799     | 0.370 | ng    | -0.01    |
| 27) Fluoranthene-d10          | 19.040 | 212  | 3284     | 0.304 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.649 | 244  | 2221     | 0.423 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
|                               |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.133  | 88   | 707      | 0.304 | ng    | # 21     |
| 3) n-Nitrosodimethylamine     | 3.444  | 42   | 1843     | 0.369 | ng    | # 88     |
| 6) bis(2-Chloroethyl)ether    | 7.040  | 93   | 1938     | 0.339 | ng    | 99       |
| 9) Naphthalene                | 10.436 | 128  | 4818     | 0.351 | ng    | 98       |
| 10) Hexachlorobutadiene       | 10.725 | 225  | 1123     | 0.390 | ng    | # 99     |
| 12) 2-Methylnaphthalene       | 12.062 | 142  | 2722     | 0.309 | ng    | 98       |
| 16) Acenaphthylene            | 13.967 | 152  | 4410     | 0.404 | ng    | 100      |
| 17) Acenaphthene              | 14.320 | 154  | 2636     | 0.370 | ng    | 99       |
| 18) Fluorene                  | 15.314 | 166  | 3413     | 0.365 | ng    | 99       |
| 20) 4,6-Dinitro-2-methylph... | 15.400 | 198  | 298      | 0.393 | ng    | 92       |
| 21) 4-Bromophenyl-phenylether | 16.202 | 248  | 980      | 0.394 | ng    | # 89     |
| 22) Hexachlorobenzene         | 16.314 | 284  | 1142     | 0.429 | ng    | 99       |
| 23) Atrazine                  | 16.475 | 200  | 818      | 0.377 | ng    | # 95     |
| 24) Pentachlorophenol         | 16.661 | 266  | 843      | 0.575 | ng    | 99       |
| 25) Phenanthrene              | 17.046 | 178  | 4787     | 0.372 | ng    | 99       |
| 26) Anthracene                | 17.133 | 178  | 4405     | 0.376 | ng    | 100      |
| 28) Fluoranthene              | 19.073 | 202  | 4524     | 0.294 | ng    | 99       |
| 30) Pyrene                    | 19.435 | 202  | 4511     | 0.430 | ng    | 100      |
| 32) Benzo(a)anthracene        | 21.180 | 228  | 3397     | 0.368 | ng    | 97       |
| 33) Chrysene                  | 21.233 | 228  | 3886     | 0.398 | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 21.126 | 149  | 1997     | 0.351 | ng    | # 96     |
| 36) Indeno(1,2,3-cd)pyrene    | 25.608 | 276  | 4135     | 0.422 | ng    | 97       |
| 37) Benzo(b)fluoranthene      | 22.740 | 252  | 3476     | 0.349 | ng    | 97       |
| 38) Benzo(k)fluoranthene      | 22.784 | 252  | 3603     | 0.366 | ng    | 93       |
| 39) Benzo(a)pyrene            | 23.304 | 252  | 3246     | 0.384 | ng    | # 91     |
| 40) Dibenzo(a,h)anthracene    | 25.623 | 278  | 3192     | 0.418 | ng    | 96       |
| 41) Benzo(g,h,i)perylene      | 26.275 | 276  | 3585     | 0.432 | ng    | 97       |
| -----                         |        |      |          |       |       |          |

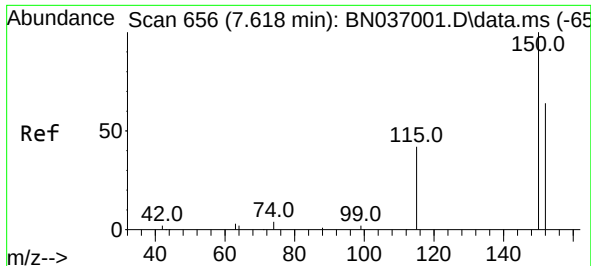
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN052825\  
Data File : BN037109.D  
Acq On : 28 May 2025 14:53  
Operator : RC/JU  
Sample : PB168155BSD  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
PB168155BSD

Quant Time: May 28 15:39:56 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN051425.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed May 14 11:26:32 2025  
Response via : Initial Calibration

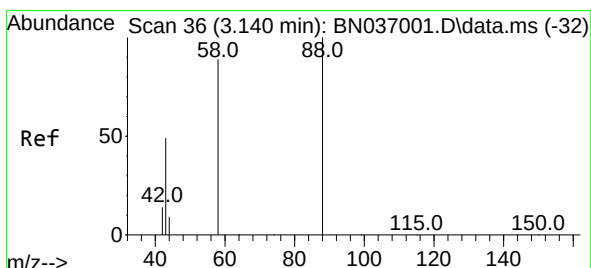
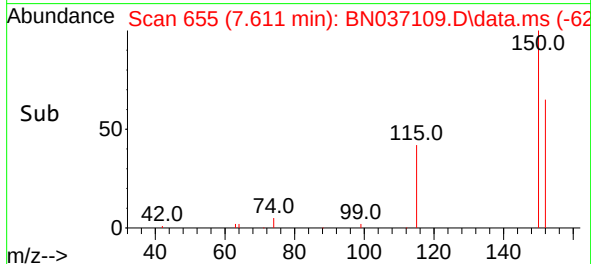
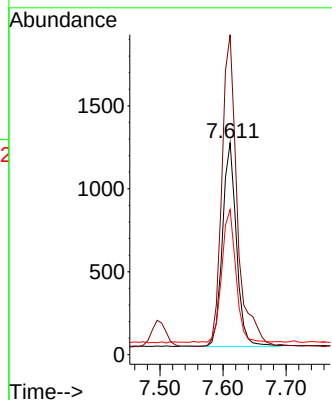
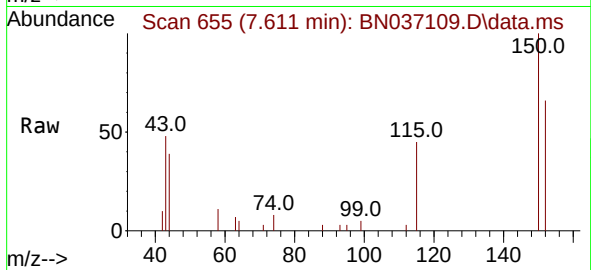




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 0.400 ng  
 RT: 7.611 min Scan# 61  
 Delta R.T. -0.007 min  
 Lab File: BN037109.D  
 Acq: 28 May 2025 14:53

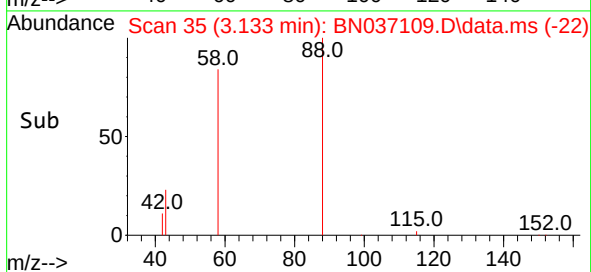
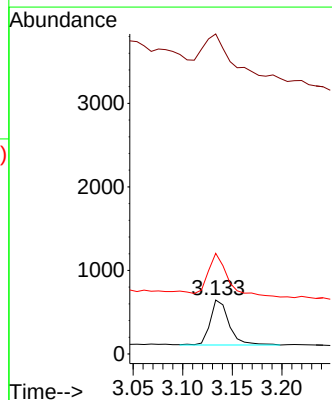
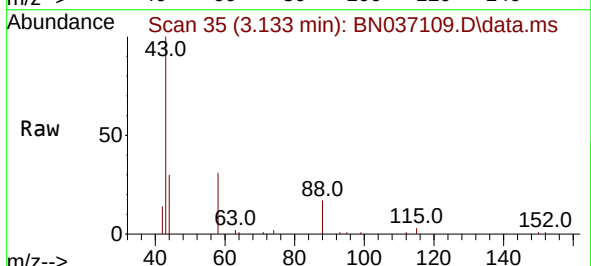
Instrument :  
 BNA\_N  
 ClientSampleId :  
 PB168155BSD

Tgt Ion:152 Resp: 1893  
 Ion Ratio Lower Upper  
 152 100  
 150 151.1 123.9 185.9  
 115 68.5 55.8 83.8

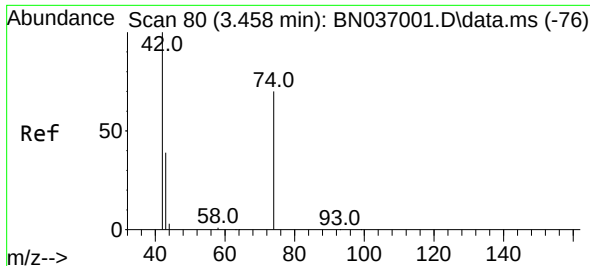


#2  
 1,4-Dioxane  
 Concen: 0.304 ng  
 RT: 3.133 min Scan# 35  
 Delta R.T. -0.007 min  
 Lab File: BN037109.D  
 Acq: 28 May 2025 14:53

Tgt Ion: 88 Resp: 707  
 Ion Ratio Lower Upper  
 88 100  
 43 172.0 37.4 56.0#  
 58 104.0 68.8 103.2#



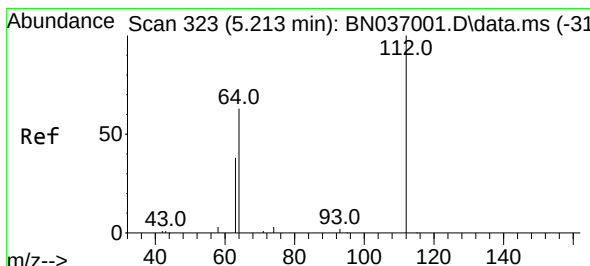
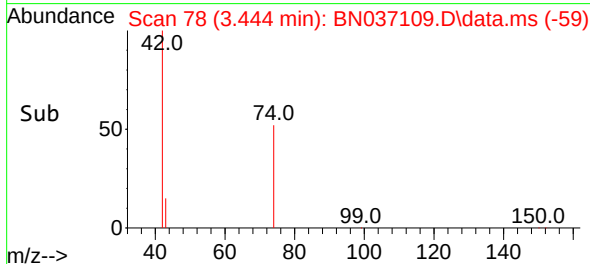
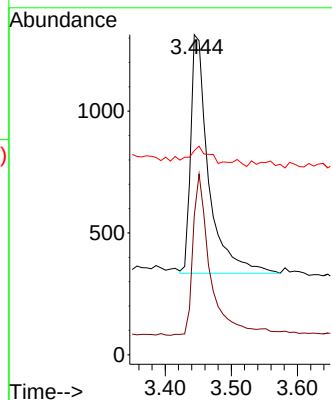
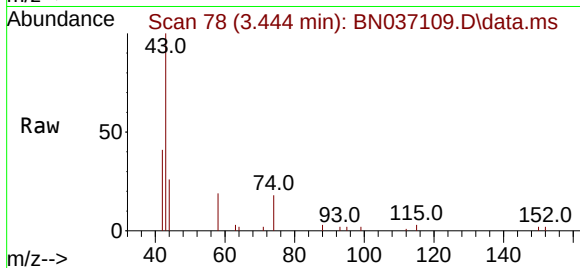




#3  
n-Nitrosodimethylamine  
Concen: 0.369 ng  
RT: 3.444 min Scan# 71  
Delta R.T. -0.014 min  
Lab File: BN037109.D  
Acq: 28 May 2025 14:53

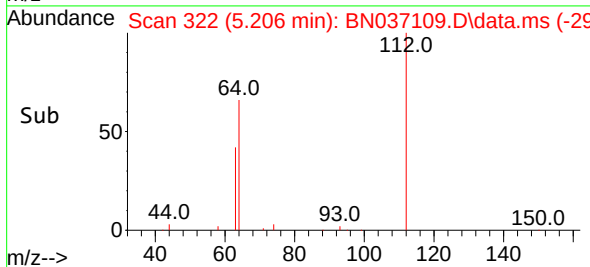
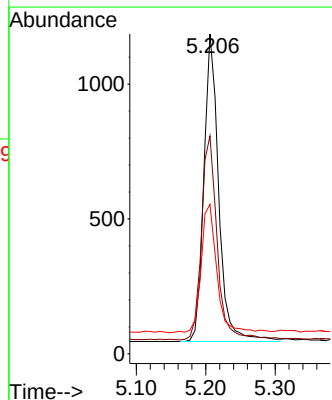
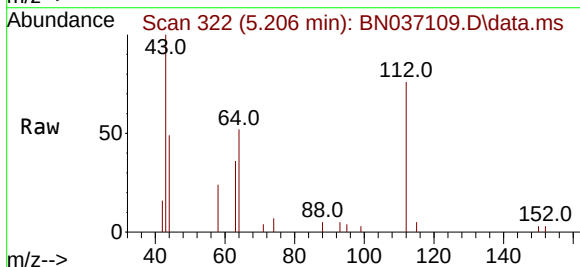
Instrument :  
BNA\_N  
ClientSampleId :  
PB168155BSD

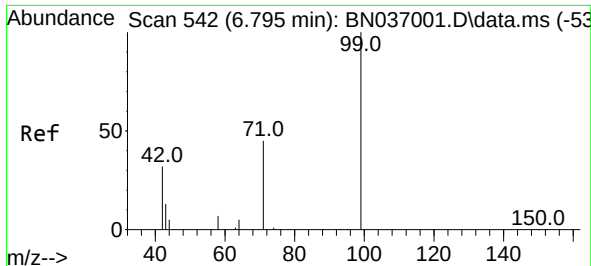
Tgt Ion: 42 Resp: 1843  
Ion Ratio Lower Upper  
42 100  
74 66.2 59.8 89.6  
44 6.2 11.9 17.9#



#4  
2-Fluorophenol  
Concen: 0.342 ng  
RT: 5.206 min Scan# 322  
Delta R.T. -0.007 min  
Lab File: BN037109.D  
Acq: 28 May 2025 14:53

Tgt Ion: 112 Resp: 1694  
Ion Ratio Lower Upper  
112 100  
64 70.7 55.7 83.5  
63 44.6 34.6 51.8

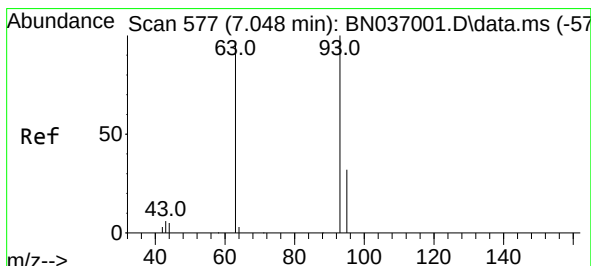
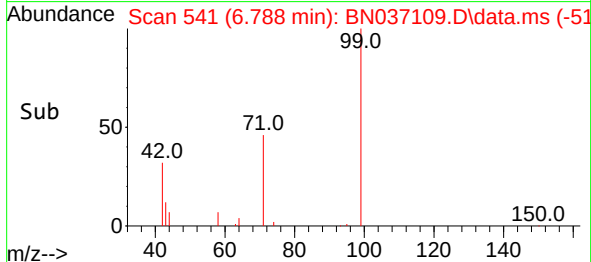
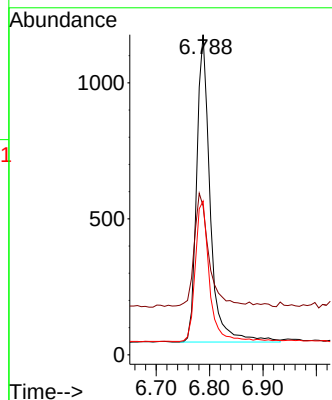
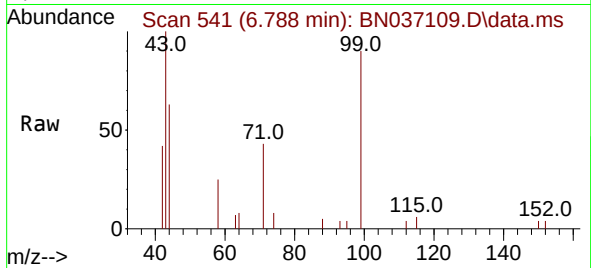




#5  
Phenol-d6  
Concen: 0.320 ng  
RT: 6.788 min Scan# 54  
Delta R.T. -0.007 min  
Lab File: BN037109.D  
Acq: 28 May 2025 14:53

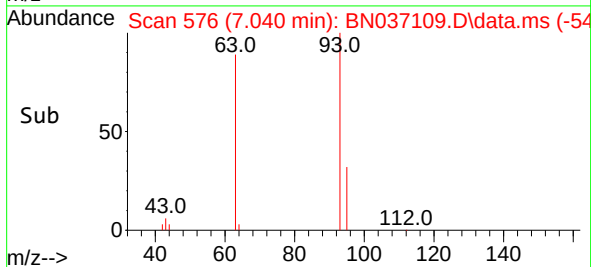
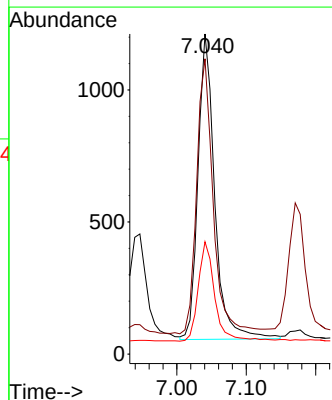
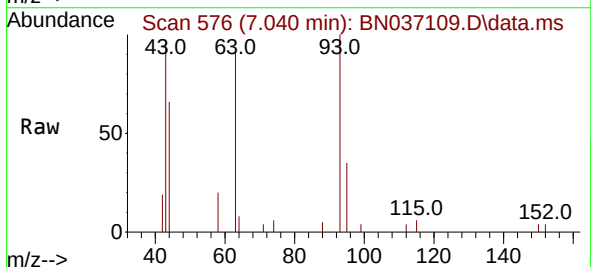
Instrument :  
BNA\_N  
ClientSampleId :  
PB168155BSD

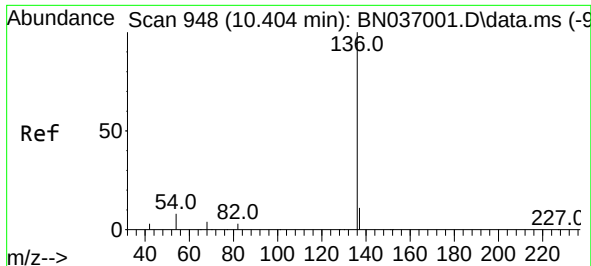
Tgt Ion: 99 Resp: 1988  
Ion Ratio Lower Upper  
99 100  
42 39.5 29.3 43.9  
71 47.8 35.7 53.5



#6  
bis(2-Chloroethyl)ether  
Concen: 0.339 ng  
RT: 7.040 min Scan# 576  
Delta R.T. -0.007 min  
Lab File: BN037109.D  
Acq: 28 May 2025 14:53

Tgt Ion: 93 Resp: 1938  
Ion Ratio Lower Upper  
93 100  
63 88.8 70.1 105.1  
95 32.1 26.2 39.2

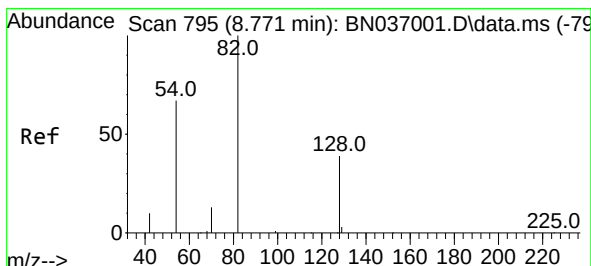
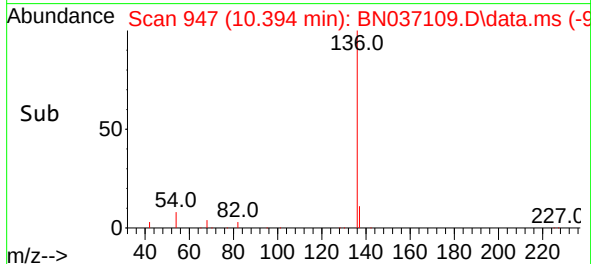
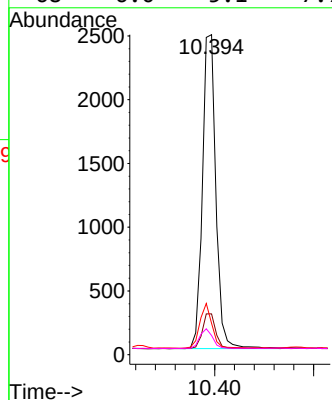
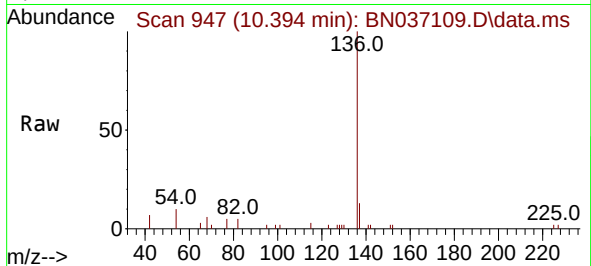




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.394 min Scan# 94  
Delta R.T. -0.011 min  
Lab File: BN037109.D  
Acq: 28 May 2025 14:53

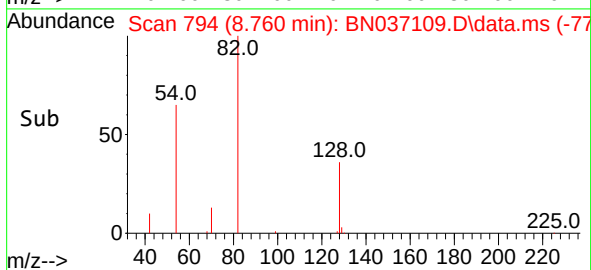
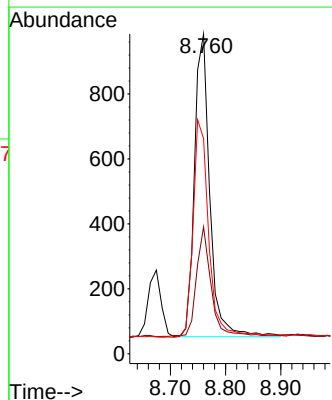
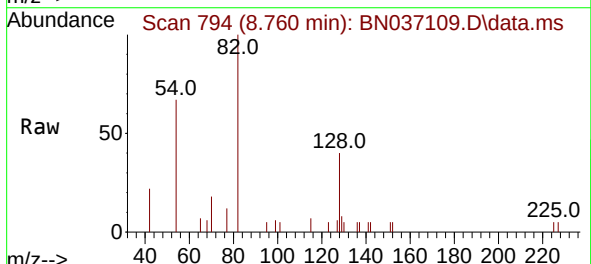
Instrument :  
BNA\_N  
ClientSampleId :  
PB168155BSD

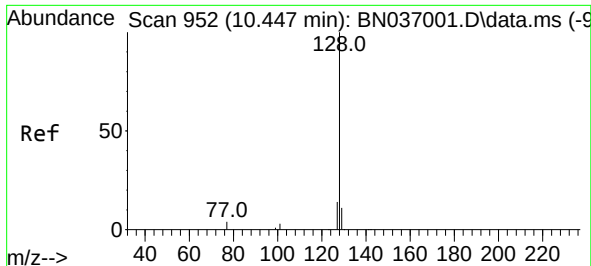
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:136 | Resp: | 4639      |
| Ion Ratio   | Lower | Upper     |
| 136         | 100   |           |
| 137         | 12.7  | 10.4 15.6 |
| 54          | 9.8   | 8.5 12.7  |
| 68          | 6.0   | 5.1 7.7   |



#8  
Nitrobenzene-d5  
Concen: 0.356 ng  
RT: 8.760 min Scan# 794  
Delta R.T. -0.011 min  
Lab File: BN037109.D  
Acq: 28 May 2025 14:53

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion: 82 | Resp: | 1796      |
| Ion Ratio   | Lower | Upper     |
| 82          | 100   |           |
| 128         | 39.7  | 34.0 51.0 |
| 54          | 67.3  | 55.0 82.4 |

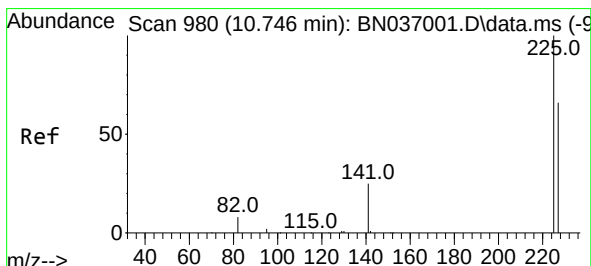
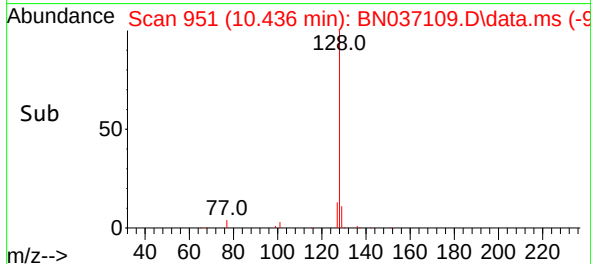
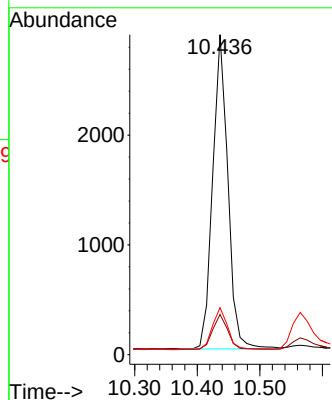
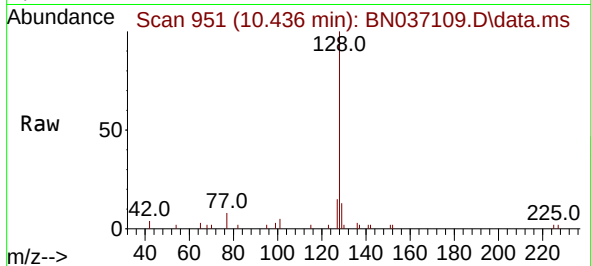




#9  
Naphthalene  
Concen: 0.351 ng  
RT: 10.436 min Scan# 91  
Delta R.T. -0.011 min  
Lab File: BN037109.D  
Acq: 28 May 2025 14:53

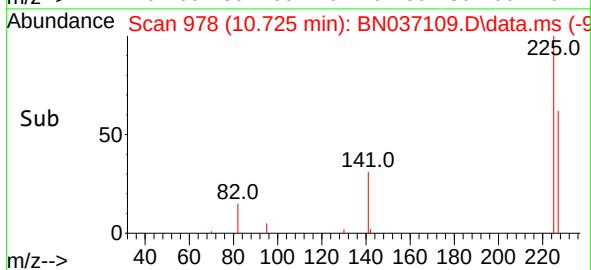
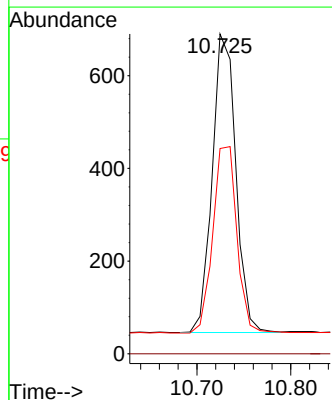
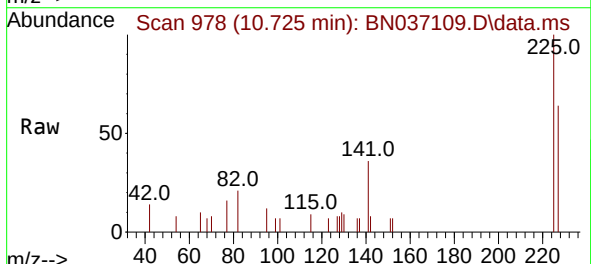
Instrument :  
BNA\_N  
ClientSampleId :  
PB168155BSD

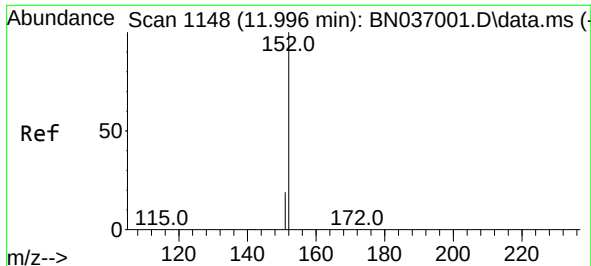
Tgt Ion:128 Resp: 4818  
Ion Ratio Lower Upper  
128 100  
129 12.6 9.7 14.5  
127 14.7 12.4 18.6



#10  
Hexachlorobutadiene  
Concen: 0.390 ng  
RT: 10.725 min Scan# 978  
Delta R.T. -0.021 min  
Lab File: BN037109.D  
Acq: 28 May 2025 14:53

Tgt Ion:225 Resp: 1123  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 64.1 50.9 76.3

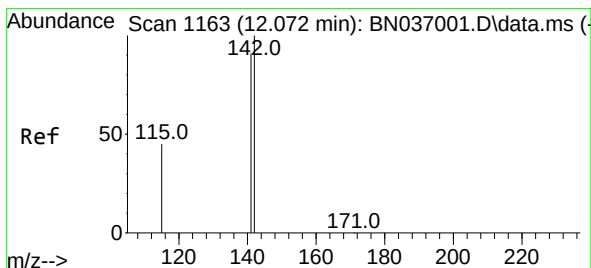
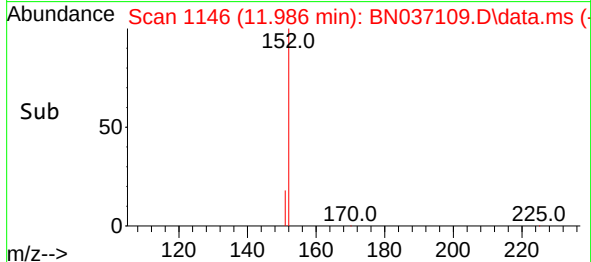
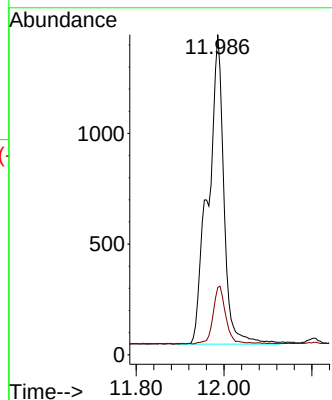
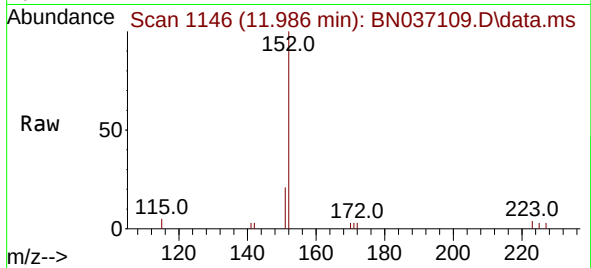




#11  
2-Methylnaphthalene-d10  
Concen: 0.534 ng  
RT: 11.986 min Scan# 1146  
Delta R.T. -0.010 min  
Lab File: BN037109.D  
Acq: 28 May 2025 14:53

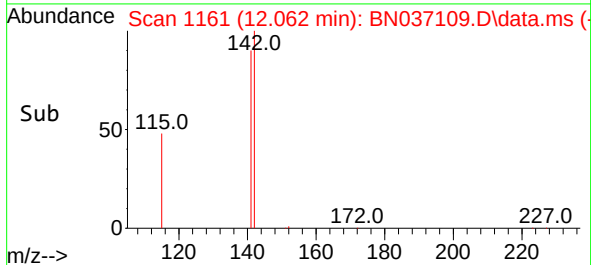
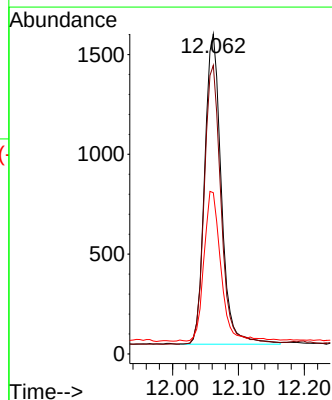
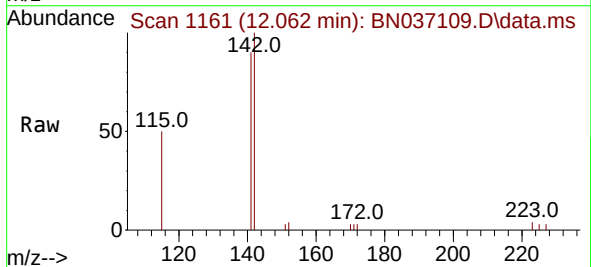
Instrument :  
BNA\_N  
ClientSampleId :  
PB168155BSD

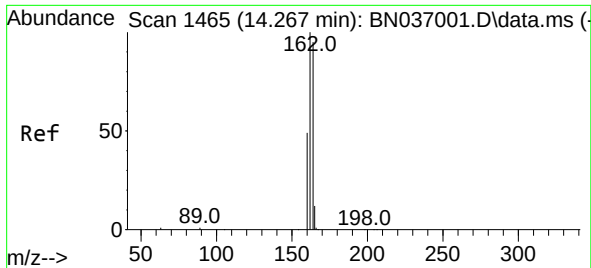
Tgt Ion:152 Resp: 3485  
Ion Ratio Lower Upper  
152 100  
151 14.9 17.5 26.3#



#12  
2-Methylnaphthalene  
Concen: 0.309 ng  
RT: 12.062 min Scan# 1161  
Delta R.T. -0.010 min  
Lab File: BN037109.D  
Acq: 28 May 2025 14:53

Tgt Ion:142 Resp: 2722  
Ion Ratio Lower Upper  
142 100  
141 90.2 73.3 109.9  
115 50.4 38.4 57.6

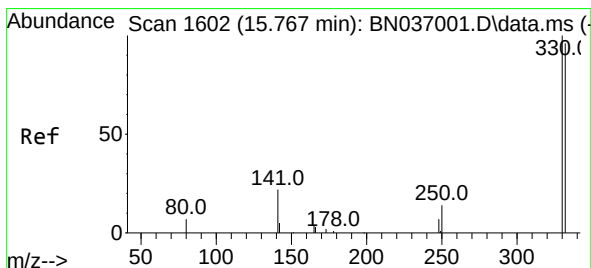
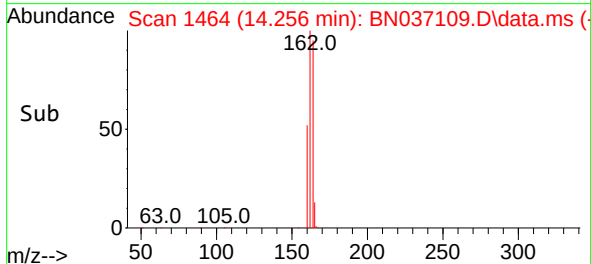
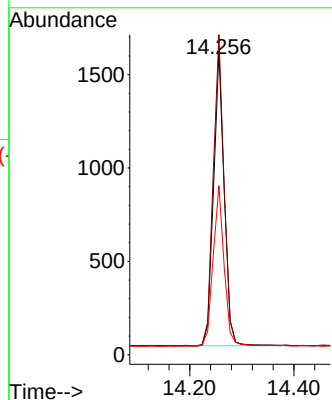
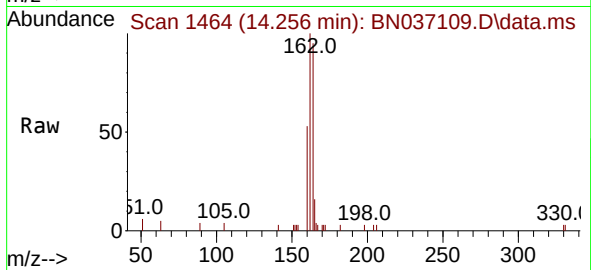




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.256 min Scan# 1464  
Delta R.T. -0.011 min  
Lab File: BN037109.D  
Acq: 28 May 2025 14:53

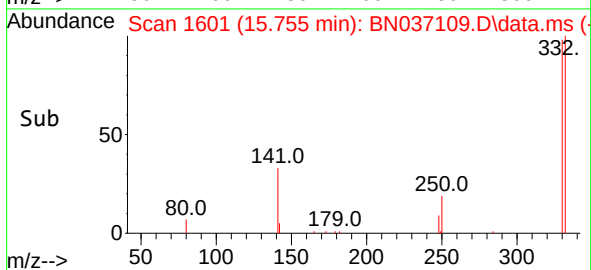
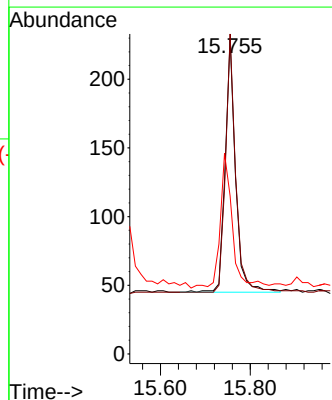
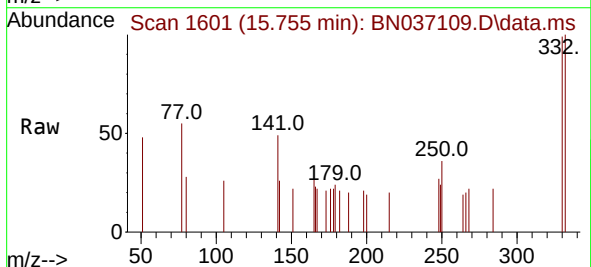
Instrument :  
BNA\_N  
ClientSampleId :  
PB168155BSD

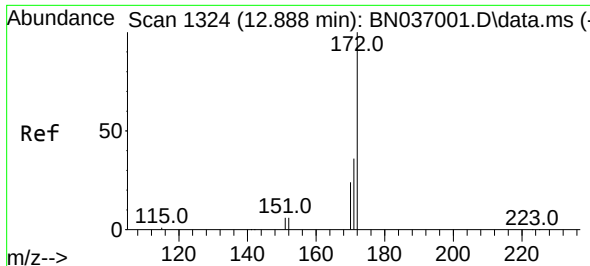
Tgt Ion:164 Resp: 2241  
Ion Ratio Lower Upper  
164 100  
162 105.3 84.2 126.4  
160 55.6 42.6 63.8



#14  
2,4,6-Tribromophenol  
Concen: 0.304 ng  
RT: 15.755 min Scan# 1601  
Delta R.T. -0.012 min  
Lab File: BN037109.D  
Acq: 28 May 2025 14:53

Tgt Ion:330 Resp: 299  
Ion Ratio Lower Upper  
330 100  
332 99.0 73.8 110.8  
141 55.2 43.9 65.9

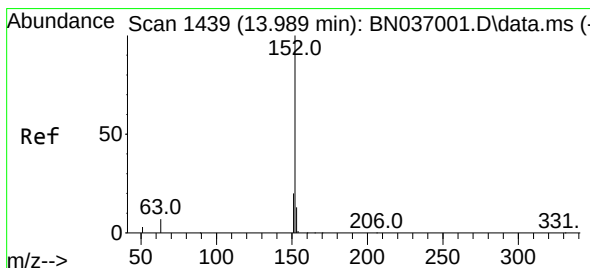
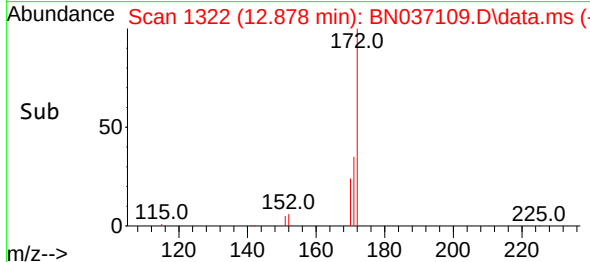
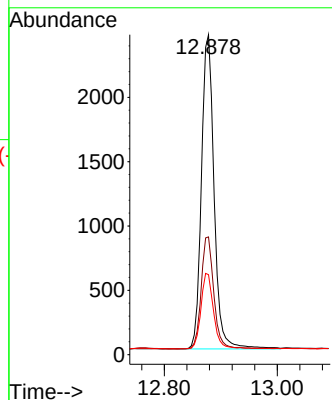
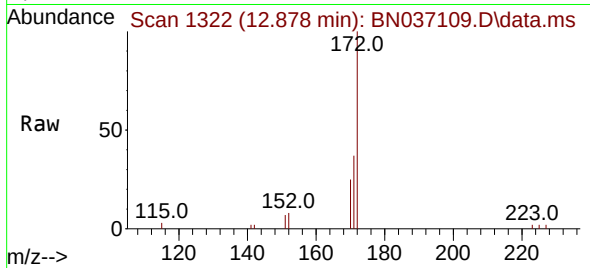




#15  
2-Fluorobiphenyl  
Concen: 0.370 ng  
RT: 12.878 min Scan# 11  
Delta R.T. -0.010 min  
Lab File: BN037109.D  
Acq: 28 May 2025 14:53

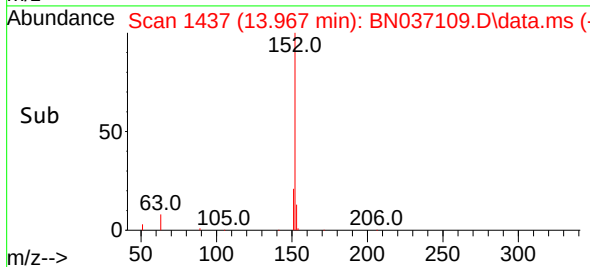
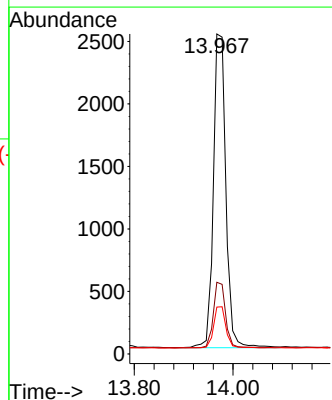
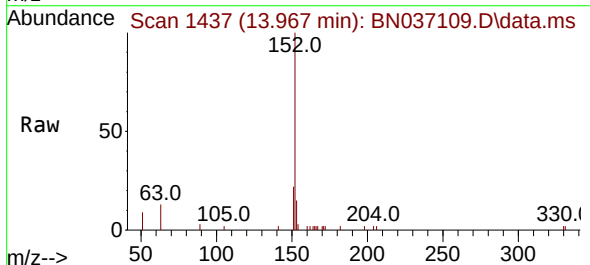
Instrument :  
BNA\_N  
ClientSampleId :  
PB168155BSD

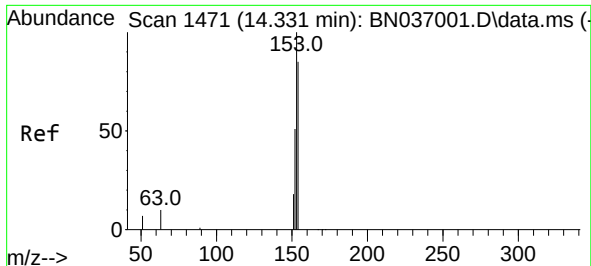
Tgt Ion:172 Resp: 3799  
Ion Ratio Lower Upper  
172 100  
171 36.8 29.2 43.8  
170 25.0 20.5 30.7



#16  
Acenaphthylene  
Concen: 0.404 ng  
RT: 13.967 min Scan# 1437  
Delta R.T. -0.021 min  
Lab File: BN037109.D  
Acq: 28 May 2025 14:53

Tgt Ion:152 Resp: 4410  
Ion Ratio Lower Upper  
152 100  
151 20.2 16.1 24.1  
153 13.3 10.5 15.7

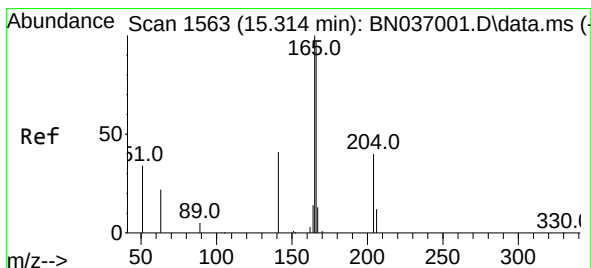
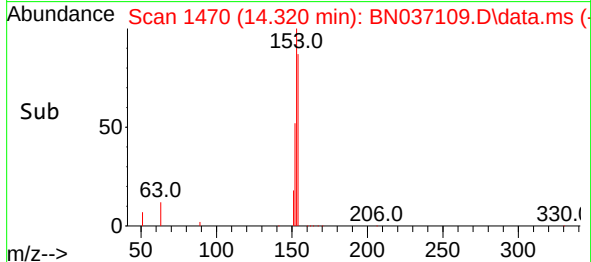
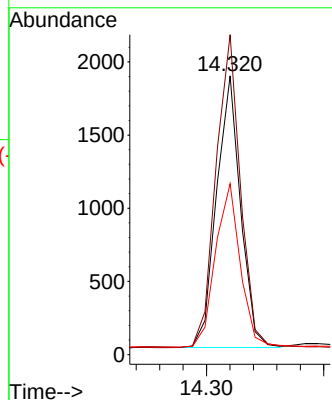
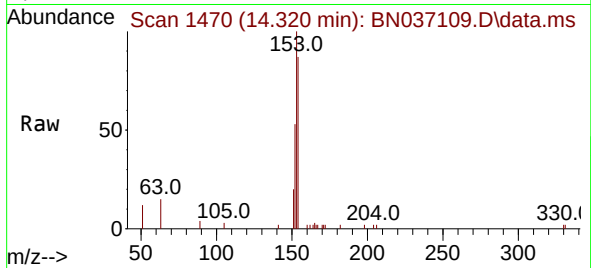




#17  
Acenaphthene  
Concen: 0.370 ng  
RT: 14.320 min Scan# 1470  
Delta R.T. -0.011 min  
Lab File: BN037109.D  
Acq: 28 May 2025 14:53

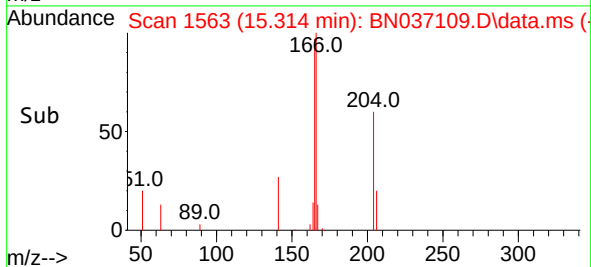
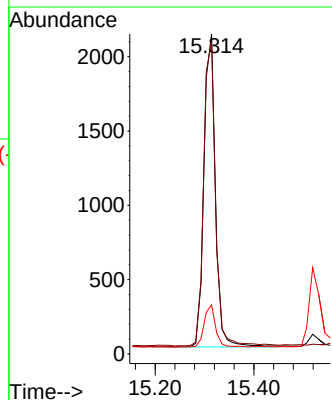
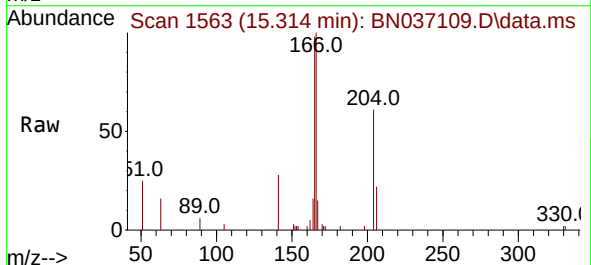
Instrument :  
BNA\_N  
ClientSampleId :  
PB168155BSD

Tgt Ion:154 Resp: 2636  
Ion Ratio Lower Upper  
154 100  
153 118.3 94.2 141.4  
152 62.8 49.4 74.0

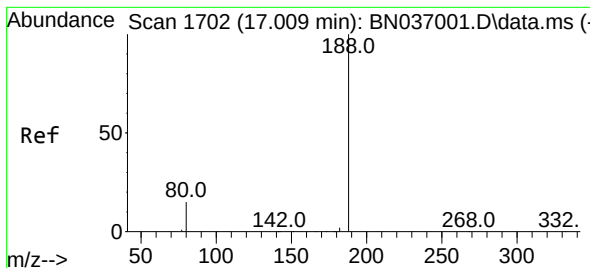


#18  
Fluorene  
Concen: 0.365 ng  
RT: 15.314 min Scan# 1563  
Delta R.T. 0.000 min  
Lab File: BN037109.D  
Acq: 28 May 2025 14:53

Tgt Ion:166 Resp: 3413  
Ion Ratio Lower Upper  
166 100  
165 99.1 80.6 120.8  
167 13.5 10.6 16.0







#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.009 min Scan# 11

Delta R.T. 0.000 min

Lab File: BN037109.D

Acq: 28 May 2025 14:53

Instrument :

BNA\_N

ClientSampleId :

PB168155BSD

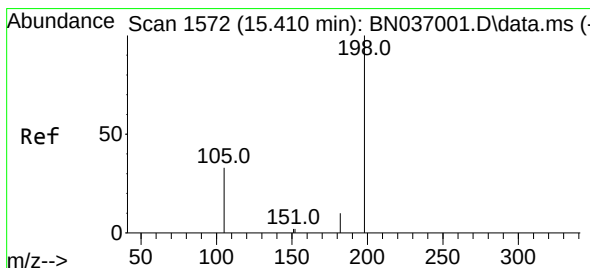
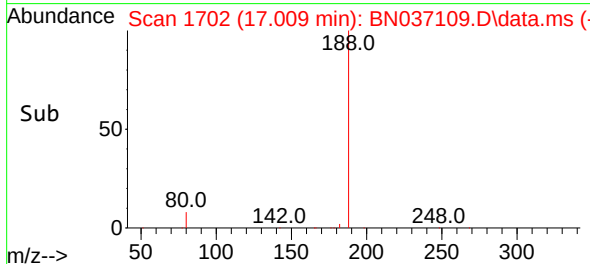
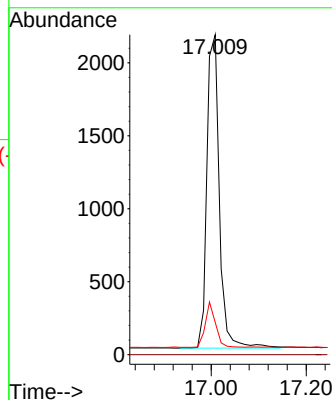
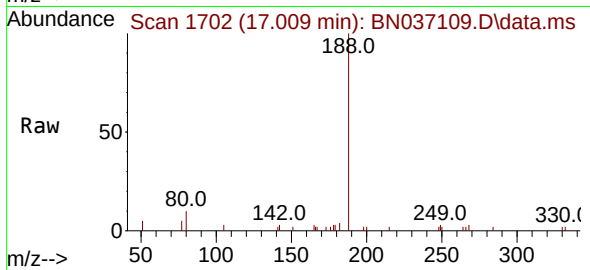
Tgt Ion:188 Resp: 3936

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.0 13.4 20.0#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.393 ng

RT: 15.400 min Scan# 1571

Delta R.T. -0.010 min

Lab File: BN037109.D

Acq: 28 May 2025 14:53

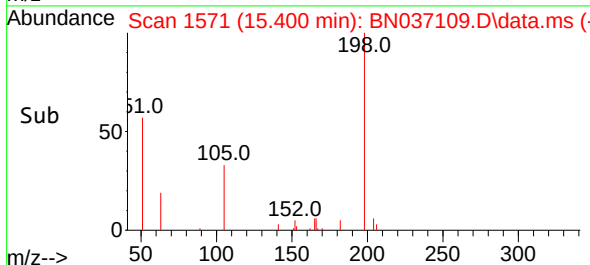
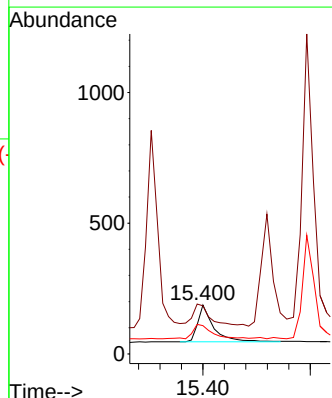
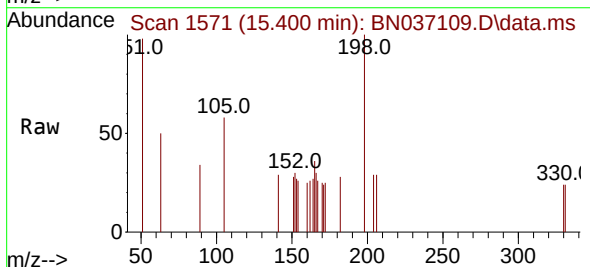
Tgt Ion:198 Resp: 298

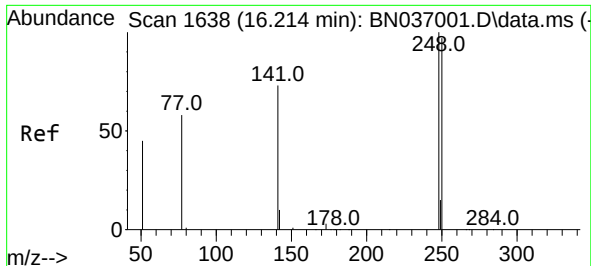
Ion Ratio Lower Upper

198 100

51 98.4 87.8 131.6

105 57.8 44.2 66.4

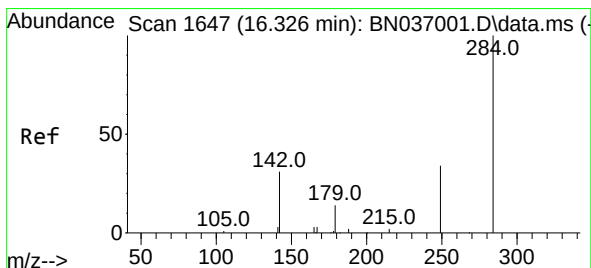
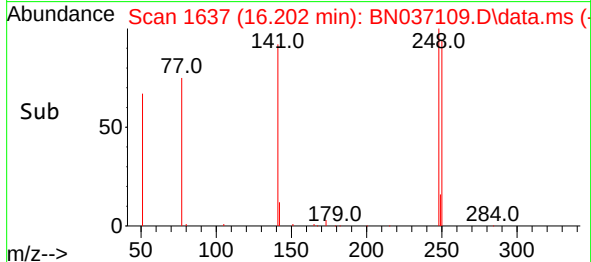
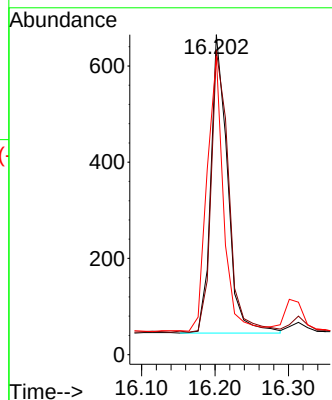
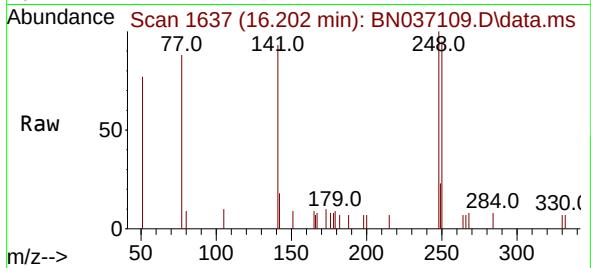




#21  
4-Bromophenyl-phenylether  
Concen: 0.394 ng  
RT: 16.202 min Scan# 1637  
Delta R.T. -0.012 min  
Lab File: BN037109.D  
Acq: 28 May 2025 14:53

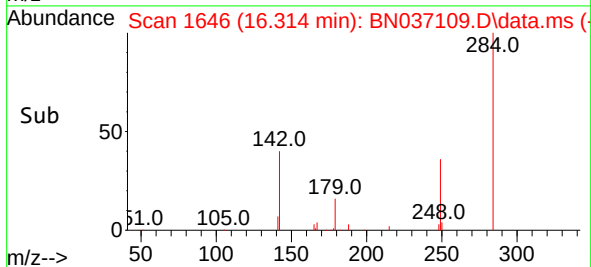
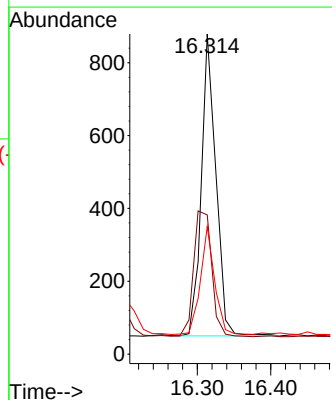
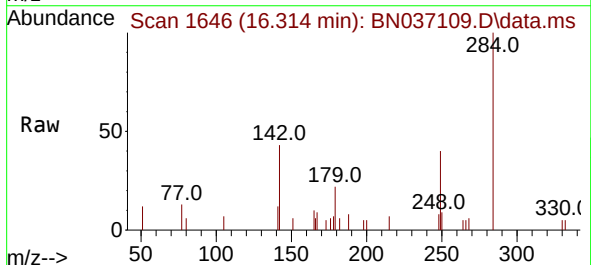
Instrument :  
BNA\_N  
ClientSampleId :  
PB168155BSD

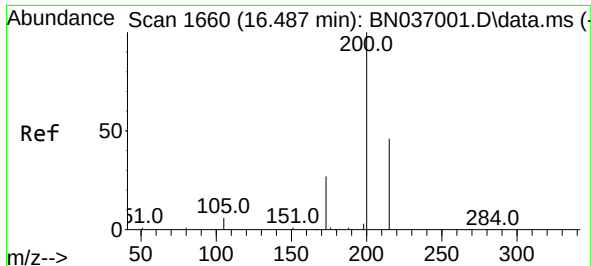
Tgt Ion:248 Resp: 980  
Ion Ratio Lower Upper  
248 100  
250 95.0 78.1 117.1  
141 93.2 59.7 89.5#



#22  
Hexachlorobenzene  
Concen: 0.429 ng  
RT: 16.314 min Scan# 1646  
Delta R.T. -0.012 min  
Lab File: BN037109.D  
Acq: 28 May 2025 14:53

Tgt Ion:284 Resp: 1142  
Ion Ratio Lower Upper  
284 100  
142 51.7 41.2 61.8  
249 34.9 28.7 43.1

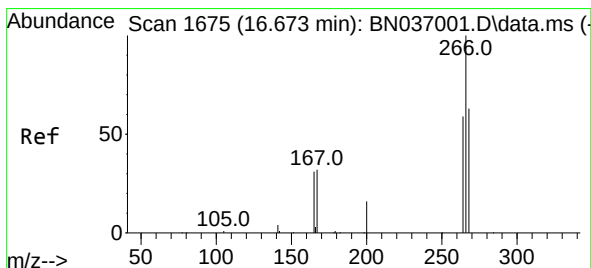
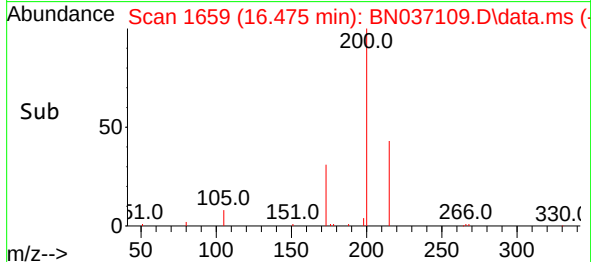
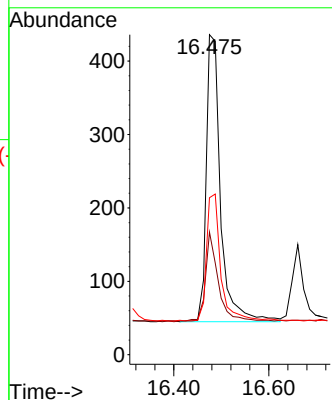
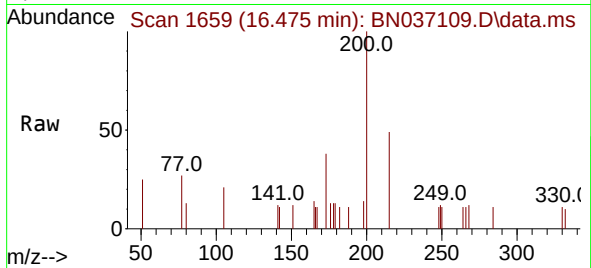




#23  
 Atrazine  
 Concen: 0.377 ng  
 RT: 16.475 min Scan# 1659  
 Delta R.T. -0.012 min  
 Lab File: BN037109.D  
 Acq: 28 May 2025 14:53

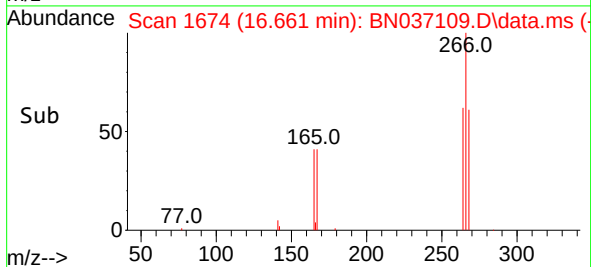
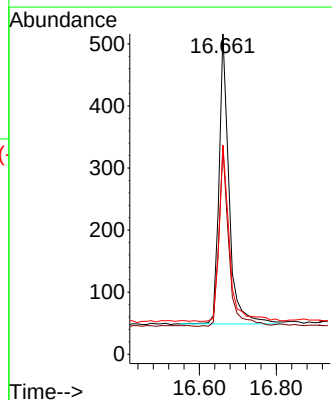
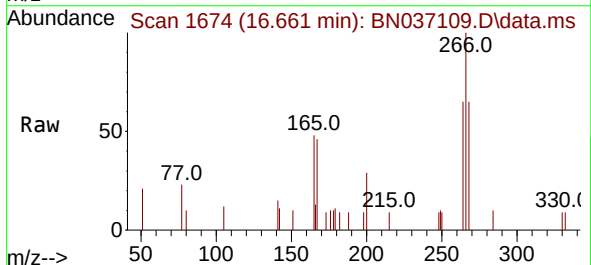
Instrument :  
 BNA\_N  
 ClientSampleId :  
 PB168155BSD

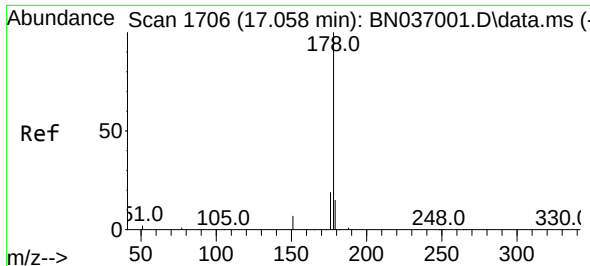
Tgt Ion:200 Resp: 818  
 Ion Ratio Lower Upper  
 200 100  
 173 38.3 25.2 37.8#  
 215 49.1 39.3 58.9



#24  
 Pentachlorophenol  
 Concen: 0.575 ng  
 RT: 16.661 min Scan# 1674  
 Delta R.T. -0.012 min  
 Lab File: BN037109.D  
 Acq: 28 May 2025 14:53

Tgt Ion:266 Resp: 843  
 Ion Ratio Lower Upper  
 266 100  
 264 61.2 47.9 71.9  
 268 61.6 50.0 75.0

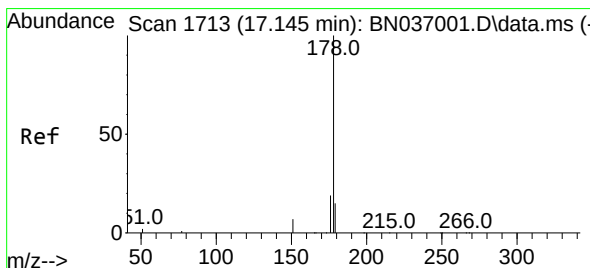
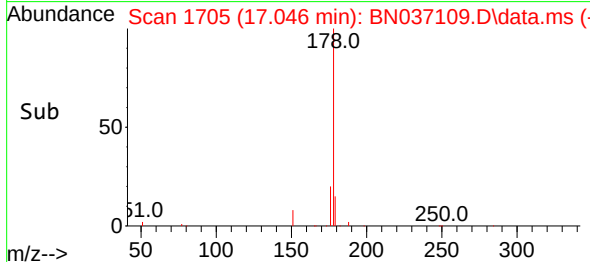
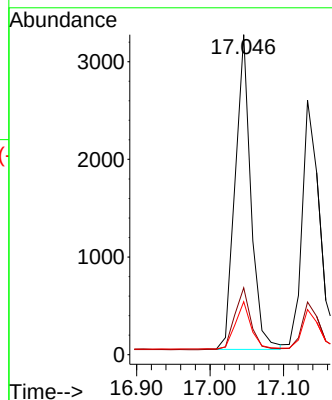
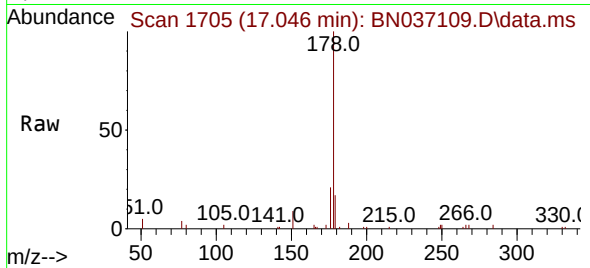




#25  
Phenanthrene  
Concen: 0.372 ng  
RT: 17.046 min Scan# 1711  
Delta R.T. -0.012 min  
Lab File: BN037109.D  
Acq: 28 May 2025 14:53

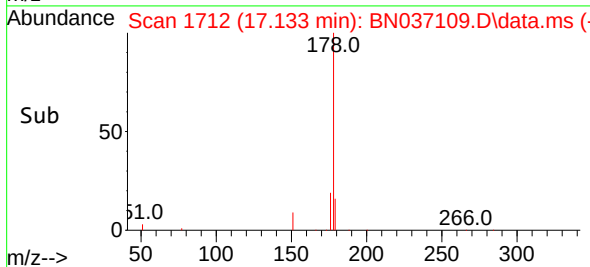
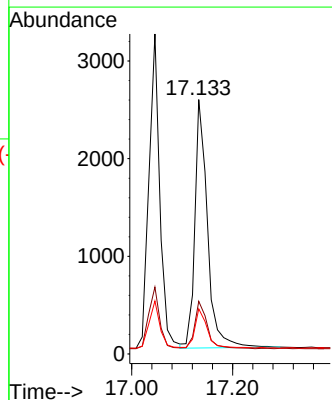
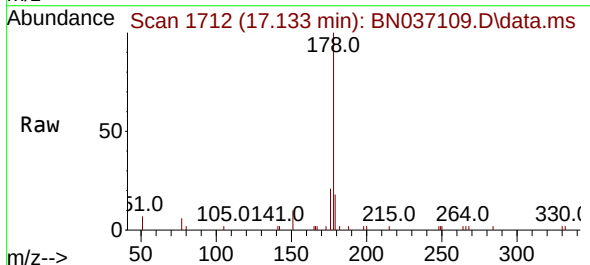
Instrument :  
BNA\_N  
ClientSampleId :  
PB168155BSD

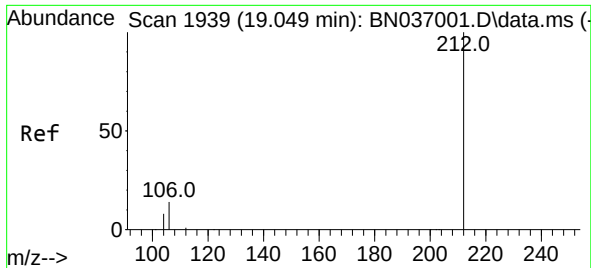
Tgt Ion:178 Resp: 4787  
Ion Ratio Lower Upper  
178 100  
176 20.2 15.7 23.5  
179 15.6 12.2 18.2



#26  
Anthracene  
Concen: 0.376 ng  
RT: 17.133 min Scan# 1712  
Delta R.T. -0.012 min  
Lab File: BN037109.D  
Acq: 28 May 2025 14:53

Tgt Ion:178 Resp: 4405  
Ion Ratio Lower Upper  
178 100  
176 18.8 15.0 22.6  
179 15.3 12.3 18.5

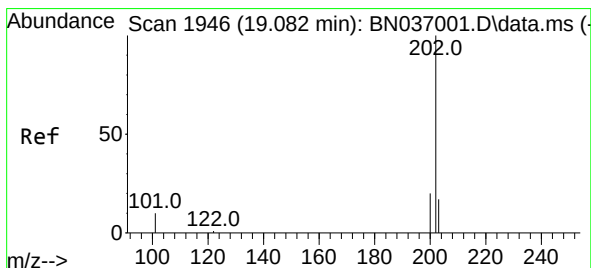
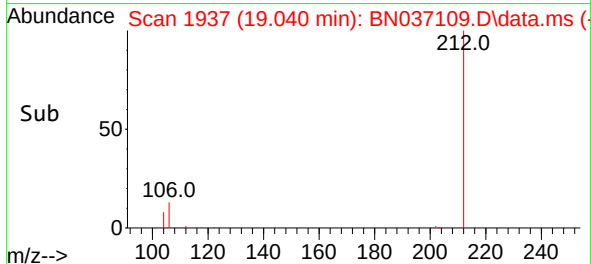
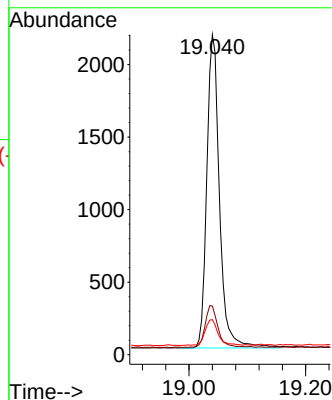
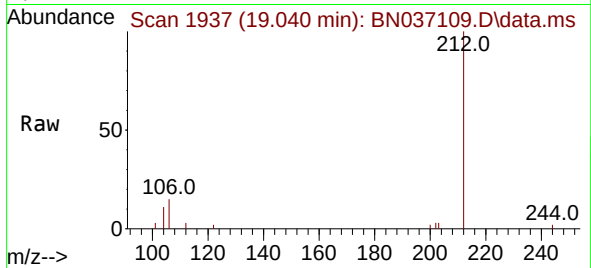




#27  
Fluoranthene-d10  
Concen: 0.304 ng  
RT: 19.040 min Scan# 1937  
Delta R.T. -0.009 min  
Lab File: BN037109.D  
Acq: 28 May 2025 14:53

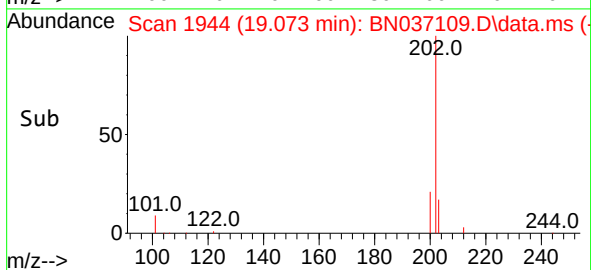
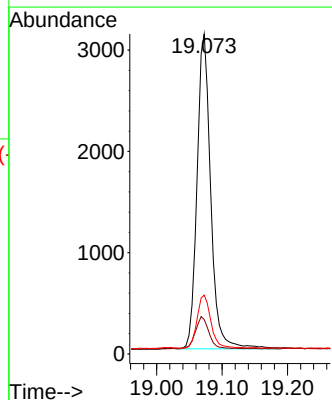
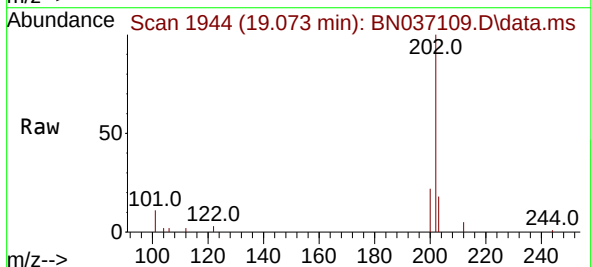
Instrument :  
BNA\_N  
ClientSampleId :  
PB168155BSD

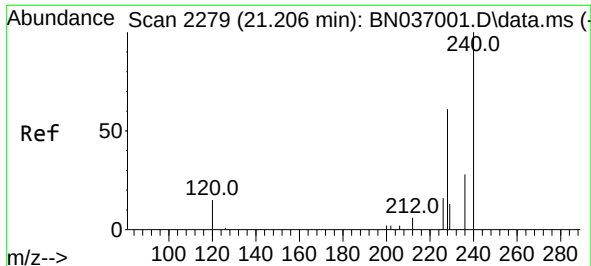
Tgt Ion:212 Resp: 3284  
Ion Ratio Lower Upper  
212 100  
106 13.4 11.3 16.9  
104 8.4 6.7 10.1



#28  
Fluoranthene  
Concen: 0.294 ng  
RT: 19.073 min Scan# 1944  
Delta R.T. -0.009 min  
Lab File: BN037109.D  
Acq: 28 May 2025 14:53

Tgt Ion:202 Resp: 4524  
Ion Ratio Lower Upper  
202 100  
101 10.3 8.9 13.3  
203 17.2 13.8 20.8

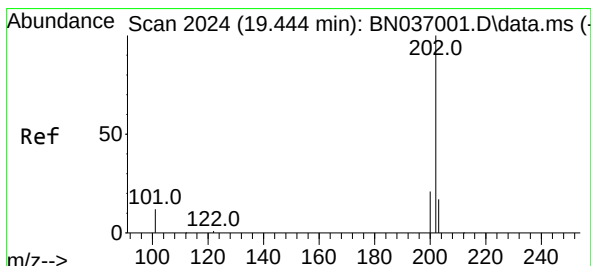
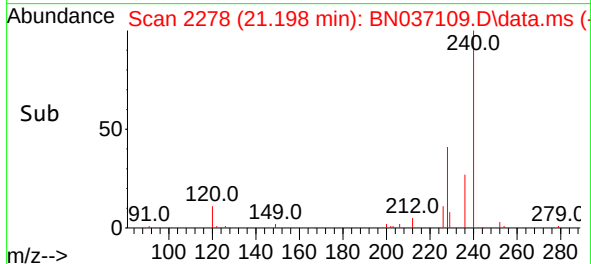
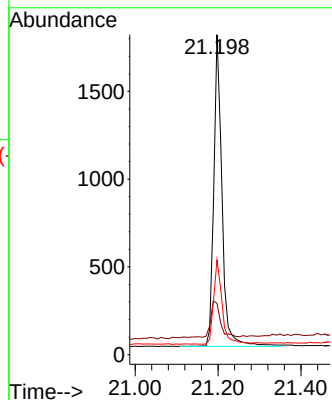
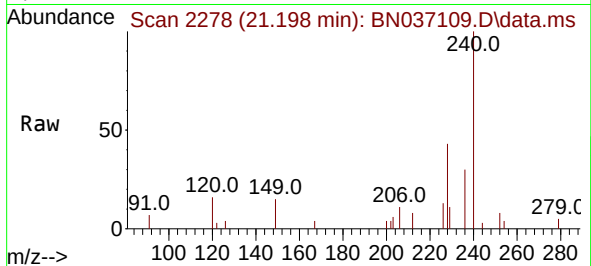




#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.198 min Scan# 21  
Delta R.T. -0.009 min  
Lab File: BN037109.D  
Acq: 28 May 2025 14:53

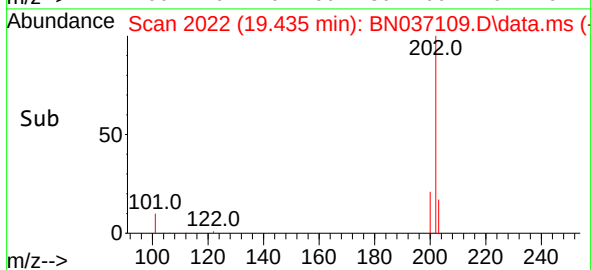
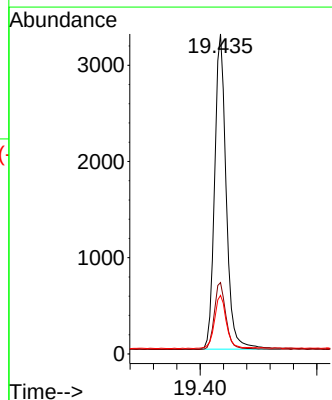
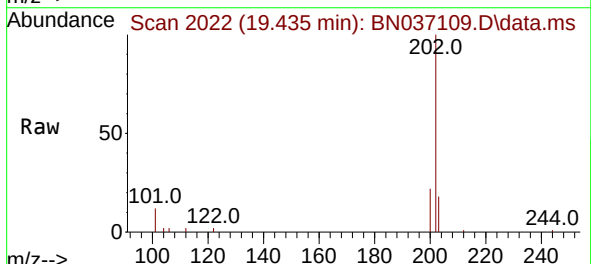
Instrument :  
BNA\_N  
ClientSampleId :  
PB168155BSD

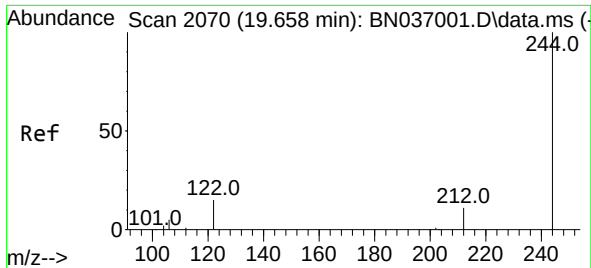
Tgt Ion:240 Resp: 2452  
Ion Ratio Lower Upper  
240 100  
120 16.0 15.1 22.7  
236 29.6 24.0 36.0



#30  
Pyrene  
Concen: 0.430 ng  
RT: 19.435 min Scan# 2022  
Delta R.T. -0.009 min  
Lab File: BN037109.D  
Acq: 28 May 2025 14:53

Tgt Ion:202 Resp: 4511  
Ion Ratio Lower Upper  
202 100  
200 21.5 17.1 25.7  
203 17.5 14.2 21.4

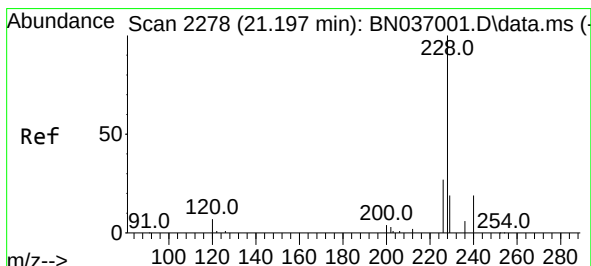
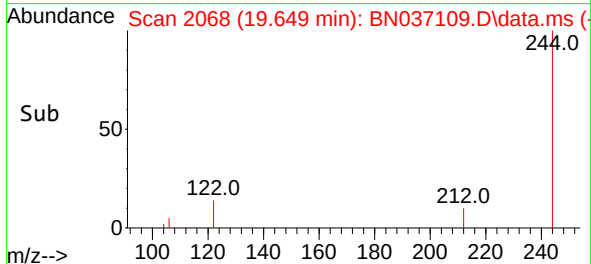
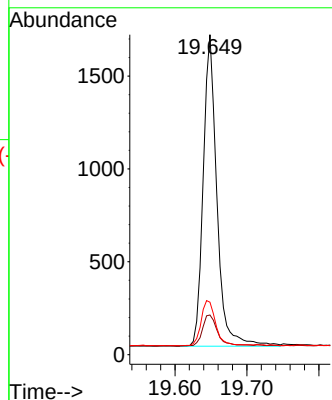
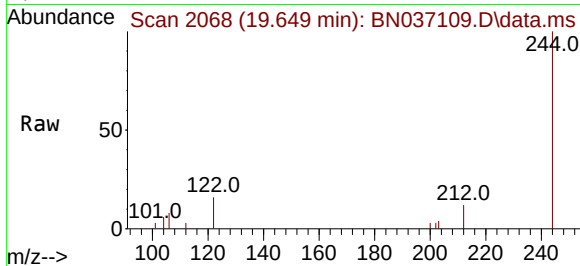




#31  
 Terphenyl-d14  
 Concen: 0.423 ng  
 RT: 19.649 min Scan# 2068  
 Delta R.T. -0.009 min  
 Lab File: BN037109.D  
 Acq: 28 May 2025 14:53

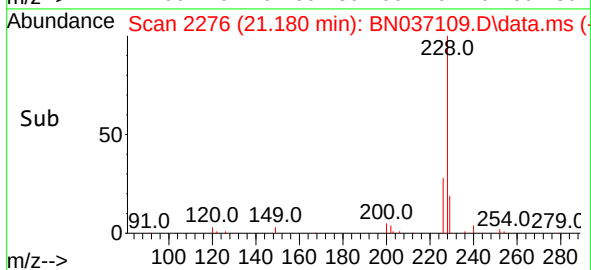
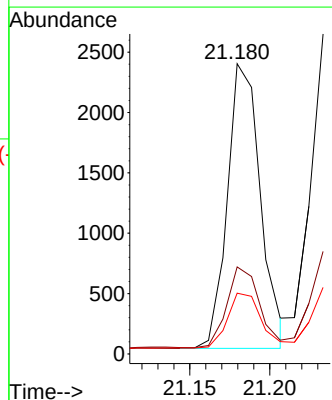
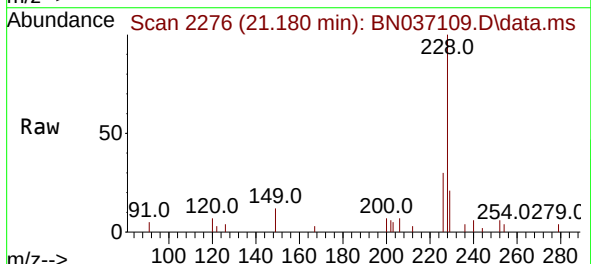
Instrument :  
 BNA\_N  
 ClientSampleId :  
 PB168155BSD

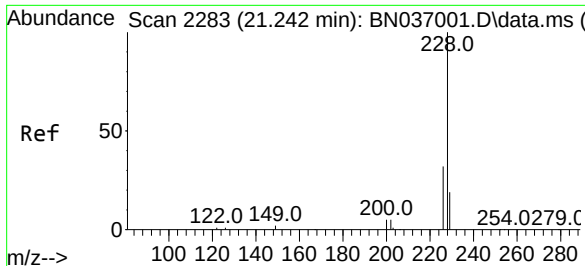
Tgt Ion:244 Resp: 2221  
 Ion Ratio Lower Upper  
 244 100  
 212 12.4 9.7 14.5  
 122 16.4 13.4 20.0



#32  
 Benzo(a)anthracene  
 Concen: 0.368 ng  
 RT: 21.180 min Scan# 2276  
 Delta R.T. -0.018 min  
 Lab File: BN037109.D  
 Acq: 28 May 2025 14:53

Tgt Ion:228 Resp: 3397  
 Ion Ratio Lower Upper  
 228 100  
 226 30.0 22.2 33.4  
 229 21.0 16.0 24.0





#33

Chrysene

Concen: 0.398 ng

RT: 21.233 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037109.D

Acq: 28 May 2025 14:53

Instrument :

BNA\_N

ClientSampleId :

PB168155BSD

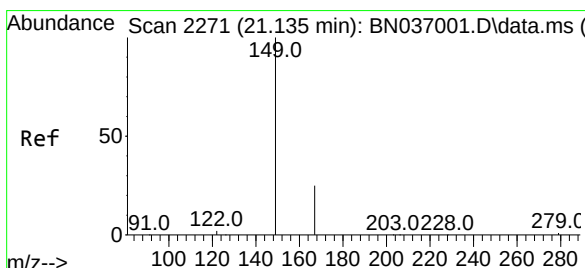
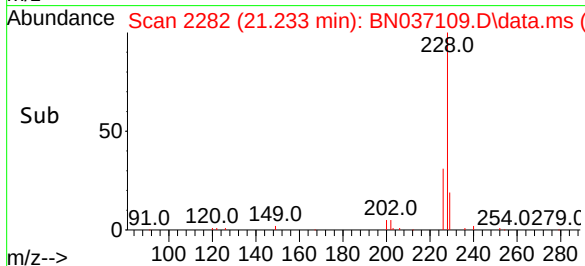
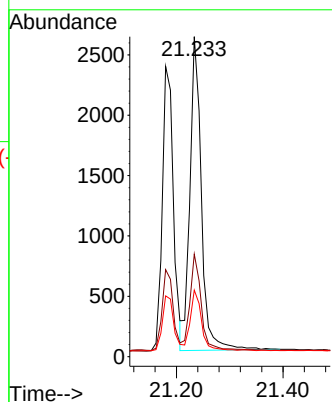
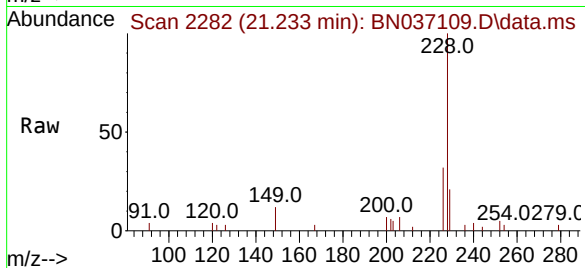
Tgt Ion:228 Resp: 3886

Ion Ratio Lower Upper

228 100

226 32.1 26.3 39.5

229 20.8 16.2 24.2



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.351 ng

RT: 21.126 min Scan# 2270

Delta R.T. -0.009 min

Lab File: BN037109.D

Acq: 28 May 2025 14:53

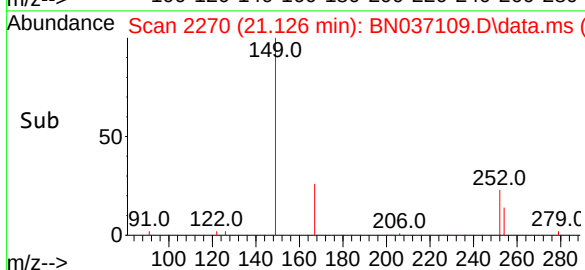
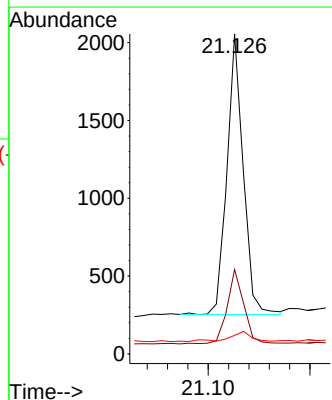
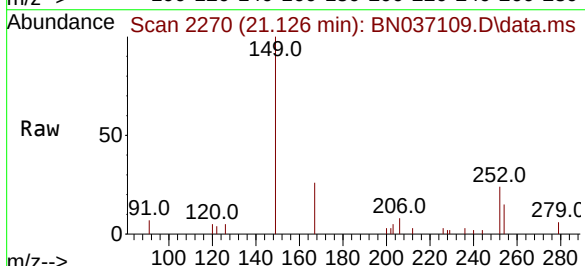
Tgt Ion:149 Resp: 1997

Ion Ratio Lower Upper

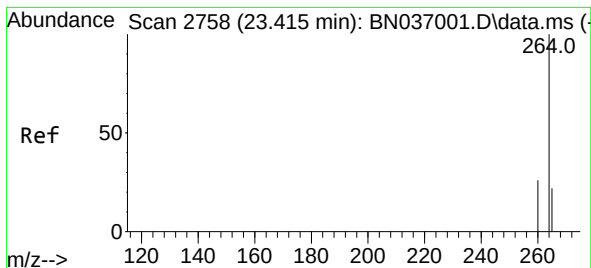
149 100

167 27.5 20.6 30.8

279 4.6 2.6 3.8#







#35

Perylene-d12

Concen: 0.400 ng

RT: 23.398 min Scan# 21

Delta R.T. -0.017 min

Lab File: BN037109.D

Acq: 28 May 2025 14:53

Instrument :

BNA\_N

ClientSampleId :

PB168155BSD

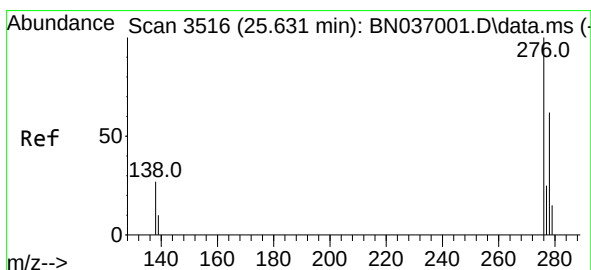
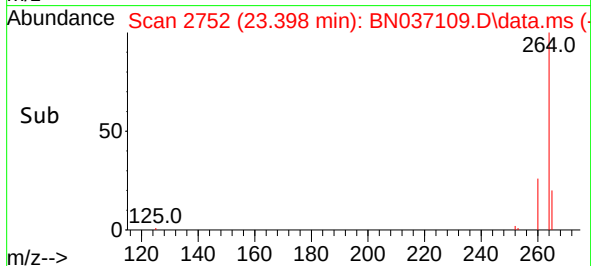
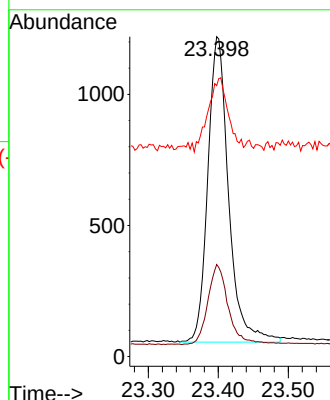
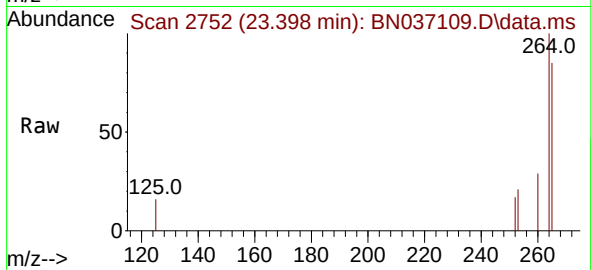
Tgt Ion:264 Resp: 2400

Ion Ratio Lower Upper

264 100

260 28.8 21.9 32.9

265 84.7 51.6 77.4#



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.422 ng

RT: 25.608 min Scan# 3508

Delta R.T. -0.023 min

Lab File: BN037109.D

Acq: 28 May 2025 14:53

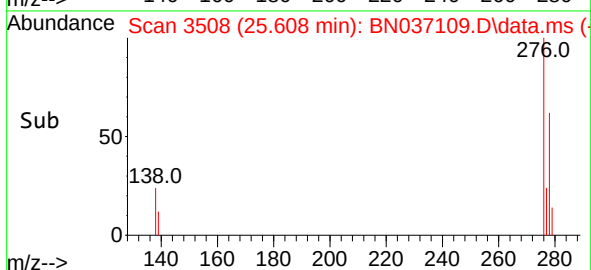
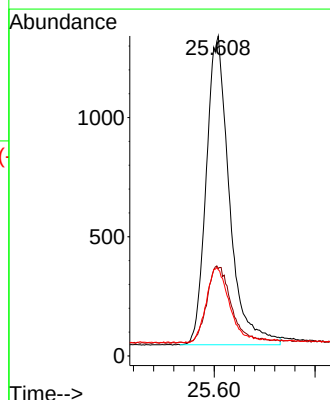
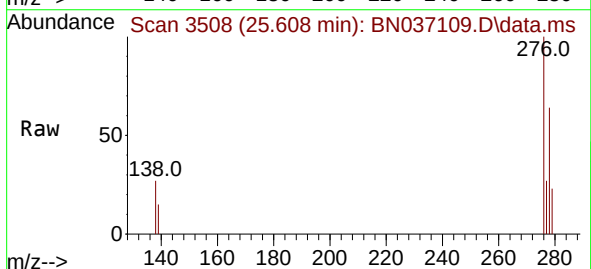
Tgt Ion:276 Resp: 4135

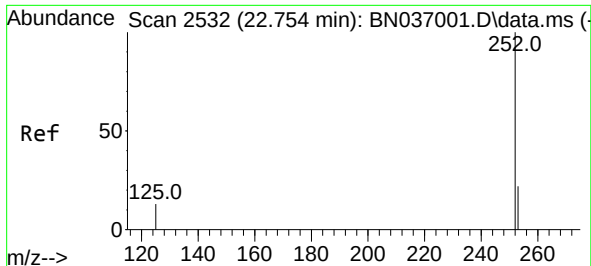
Ion Ratio Lower Upper

276 100

138 26.0 22.7 34.1

277 24.7 20.0 30.0

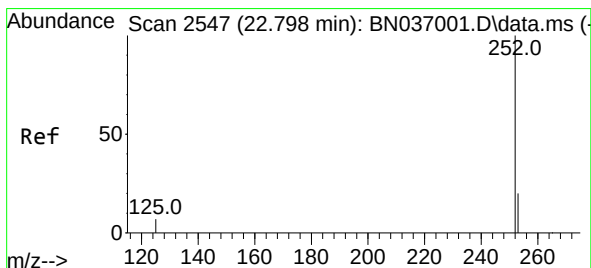
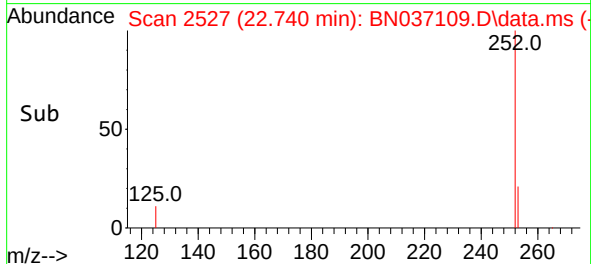
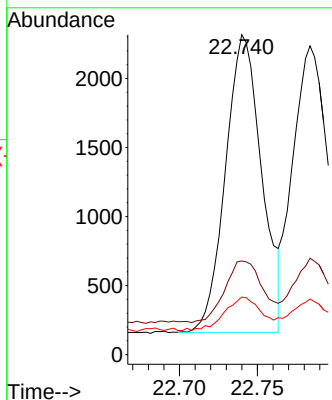
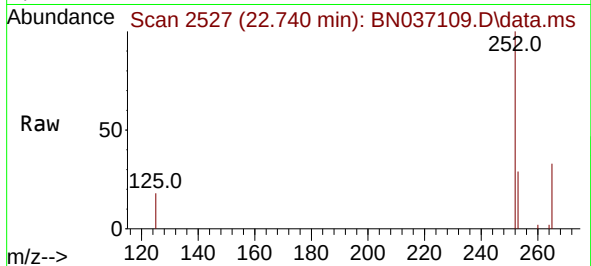




#37  
Benzo(b)fluoranthene  
Concen: 0.349 ng  
RT: 22.740 min Scan# 2532  
Delta R.T. -0.015 min  
Lab File: BN037109.D  
Acq: 28 May 2025 14:53

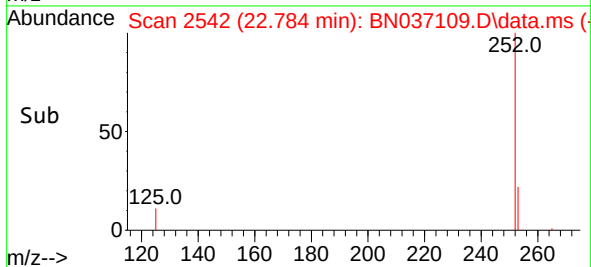
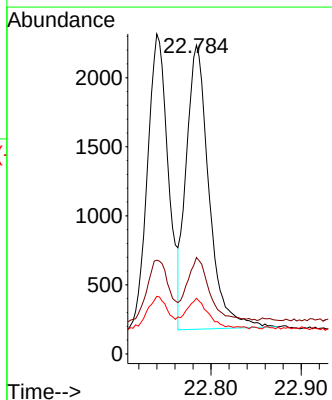
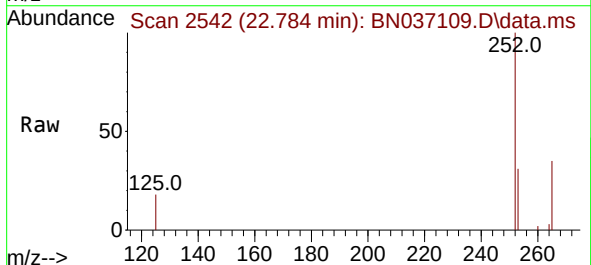
Instrument :  
BNA\_N  
ClientSampleId :  
PB168155BSD

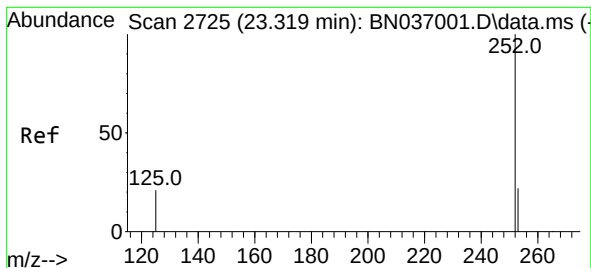
Tgt Ion:252 Resp: 3476  
Ion Ratio Lower Upper  
252 100  
253 29.3 21.8 32.6  
125 18.0 14.6 21.8



#38  
Benzo(k)fluoranthene  
Concen: 0.366 ng  
RT: 22.784 min Scan# 2542  
Delta R.T. -0.015 min  
Lab File: BN037109.D  
Acq: 28 May 2025 14:53

Tgt Ion:252 Resp: 3603  
Ion Ratio Lower Upper  
252 100  
253 31.2 21.4 32.2  
125 18.0 13.0 19.4





#39

Benzo(a)pyrene

Concen: 0.384 ng

RT: 23.304 min Scan# 21

Delta R.T. -0.015 min

Lab File: BN037109.D

Acq: 28 May 2025 14:53

Instrument :

BNA\_N

ClientSampleId :

PB168155BSD

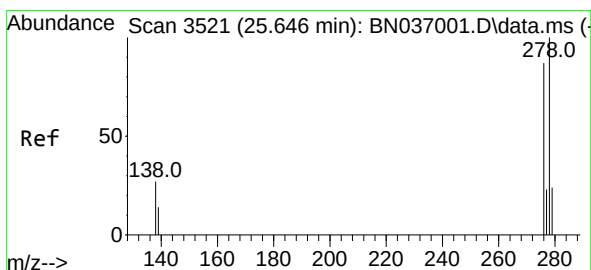
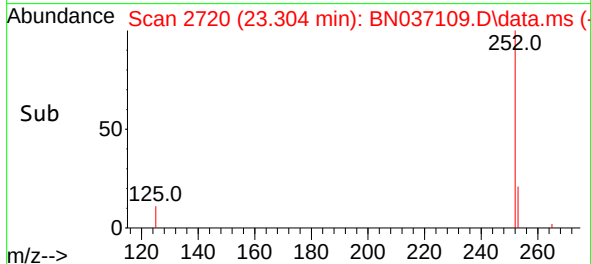
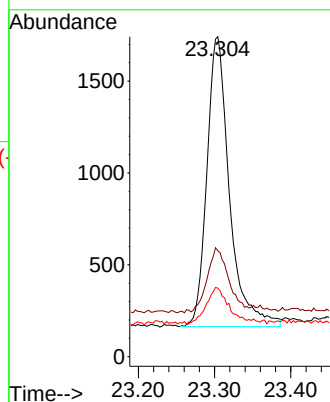
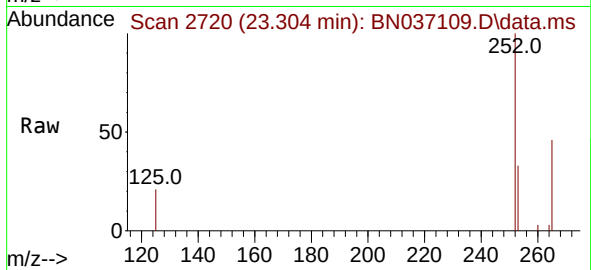
Tgt Ion:252 Resp: 3246

Ion Ratio Lower Upper

252 100

253 33.1 23.8 35.6

125 21.4 21.8 32.6#



#40

Dibenzo(a,h)anthracene

Concen: 0.418 ng

RT: 25.623 min Scan# 3513

Delta R.T. -0.023 min

Lab File: BN037109.D

Acq: 28 May 2025 14:53

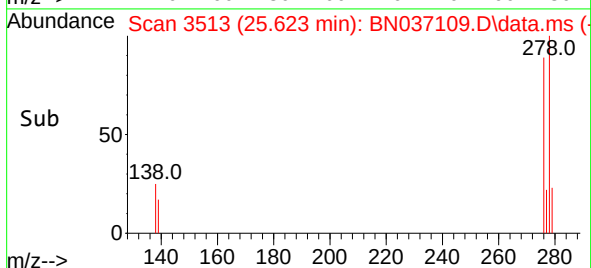
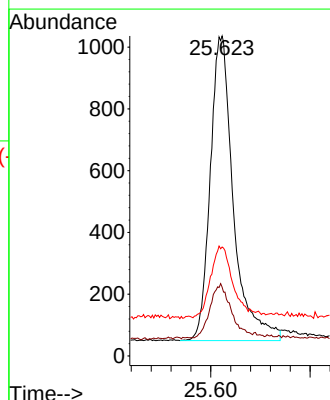
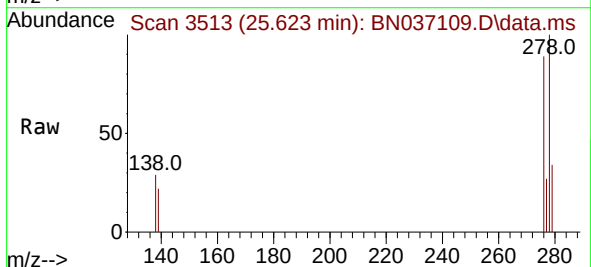
Tgt Ion:278 Resp: 3192

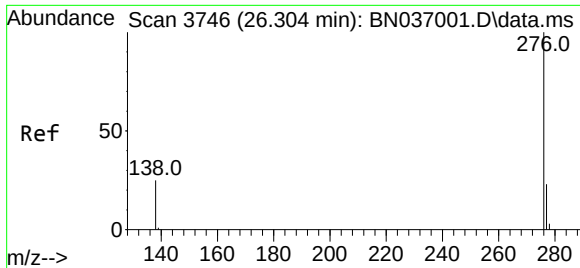
Ion Ratio Lower Upper

278 100

139 21.5 17.4 26.0

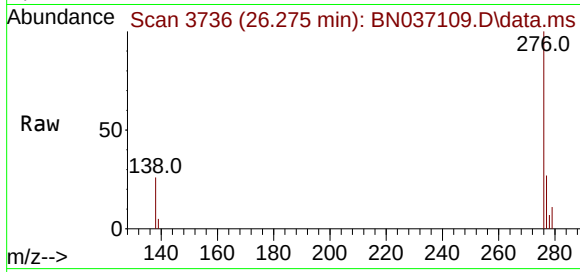
279 34.1 24.6 37.0





#41  
 Benzo(g,h,i)perylene  
 Concen: 0.432 ng  
 RT: 26.275 min Scan# 31  
 Delta R.T. -0.029 min  
 Lab File: BN037109.D  
 Acq: 28 May 2025 14:53

Instrument :  
 BNA\_N  
 ClientSampleId :  
 PB168155BSD



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 276   | Resp: | 3585  |
| Ion      | Ratio | Lower | Upper |
| 276      | 100   |       |       |
| 277      | 26.6  | 20.2  | 30.4  |
| 138      | 26.2  | 22.0  | 33.0  |

