



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

## Cover Page

**Order ID :** Q1870

**Project ID :** NJ Waste Water PT

**Client :** Alliance Technical Group, LLC - Newark

**Lab Sample Number**

Q1870-01  
Q1870-03

**Client Sample Number**

38072-010925  
38073-100124

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: 5/6/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012



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Phone: 908 789 8900 Fax: 908 789 8922

## **CASE NARRATIVE**

**Alliance Technical Group, LLC - Newark**

**Project Name: NJ Waste Water PT**

**Project # N/A**

**Chemtech Project # Q1870**

**Test Name: SVOCMS Group5**

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

1 Water sample was received on 04/23/2025.

1 Water sample was received on 04/24/2025.

### **B. Parameters**

According to the Chain of Custody document, the following analyses were requested: SVOCMS Group2 and SVOCMS Group5. This data package contains results for SVOCMS Group5.

### **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 SVOCMS Group5 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, 38072-010925DL2 [ 2-Fluorobiphenyl - 0%,2-Methylnaphthalene-d10 - 0%, Fluoranthene-d10 - 0%, Nitrobenzene-d5 - 0%, Terphenyl-d14 - 0%], The DMC recovery does not apply for those samples which have been diluted, Therefore no further corrective action was taken.  
The Internal Standards Areas met the acceptable requirements.  
The Retention Times were acceptable for all samples.  
The Blank Spike met requirements for all samples.

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

Samples 38072-010925, 38072-010925DL were diluted due to high concentrations.



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**E. Additional Comments:**

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

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.

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Signature\_\_\_\_\_

## DATA REPORTING QUALIFIERS- ORGANIC

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

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

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

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

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

CHEMTECH PROJECT NUMBER: Q1870

MATRIX: Water

METHOD: 8270-Modified/3510

|                                                                                                                                                                                                                                                                                                                                                   | NA | NO | YES |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|-----|
| 1. Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)                                                                                                                                                                                                                                                                  |    |    | ✓   |
| 2. GC/MS Tuning Specifications. DFTPP Meet Criteria.<br>(NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP,<br>CLP AND NJ)                                                                                                                                                                                                                    |    |    | ✓   |
| 3. GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for<br>8000 Series.                                                                                                                                                                                                                                              |    |    | ✓   |
| 4. GC/MS Calibration - Initial Calibration performed within 30 days before sample<br>analysis and continuing calibration performed within 24 hours of sample analysis for<br>600 series and 12 hours for 8000 series.                                                                                                                             |    |    | ✓   |
| 5. GC/MS Calibration Requirements.                                                                                                                                                                                                                                                                                                                |    |    | ✓   |
| The Initial Calibration met the requirements.<br>The Continuous Calibration met the requirements.                                                                                                                                                                                                                                                 |    |    |     |
| 6. Blank Contamination - If yes, list compounds and concentrations in each blank:                                                                                                                                                                                                                                                                 |    |    | ✓   |
| 7. Surrogate Recoveries Meet Criteria                                                                                                                                                                                                                                                                                                             |    |    | ✓   |
| If not met, list those compounds and their recoveries which fall outside the acceptable<br>ranges.                                                                                                                                                                                                                                                |    |    |     |
| The Surrogate recoveries met the acceptable criteria except for,<br>38072-010925DL2 [ 2-Fluorobiphenyl - 0%,2-Methylnaphthalene-d10 - 0%,<br>Fluoranthene-d10 - 0%, Nitrobenzene-d5 - 0%, Terphenyl-d14 - 0%], The DMC<br>recovery does not apply for those samples which have been diluted, Therefore no<br>further corrective action was taken. |    |    |     |

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**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.                                              |    |    |     |
| 9.  | Internal Standard Area/Retention Time Shift Meet Criteria                                      |    |    | ✓   |
|     | Comments:                                                                                      |    |    |     |
| 10. | Extraction Holding Time Met                                                                    |    |    | ✓   |
|     | If not met, list number of days exceeded for each sample:                                      |    |    |     |
| 11. | Analysis Holding Time Met                                                                      |    |    | ✓   |
|     | If not met, list number of days exceeded for each sample:                                      |    |    |     |

ADDITIONAL COMMENTS:

Samples 38072-010925, 38072-010925DL were diluted due to high concentrations.

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

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 #: Q1870

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: 05/06/2025

## LAB CHRONICLE

|                 |                                        |                   |                       |
|-----------------|----------------------------------------|-------------------|-----------------------|
| <b>OrderID:</b> | Q1870                                  | <b>OrderDate:</b> | 4/24/2025 11:31:00 AM |
| <b>Client:</b>  | Alliance Technical Group, LLC - Newark | <b>Project:</b>   | NJ Waste Water PT     |
| <b>Contact:</b> | Mohammad Ahmed                         | <b>Location:</b>  | QA Office             |

| LabID                   | ClientID               | Matrix       | Test          | Method        | Sample Date     | Prep Date | Anal Date | Received        |
|-------------------------|------------------------|--------------|---------------|---------------|-----------------|-----------|-----------|-----------------|
| <b>Q1870-01</b>         | <b>38072-010925</b>    | <b>Water</b> |               |               | <b>04/21/25</b> |           |           | <b>04/23/25</b> |
|                         |                        |              | SVOCMS Group5 | 8270-Modified |                 | 04/24/25  | 04/29/25  |                 |
| <b>Q1870-01DL</b>       | <b>38072-010925DL</b>  | <b>Water</b> |               |               | <b>04/21/25</b> |           |           | <b>04/23/25</b> |
|                         |                        |              | SVOCMS Group5 | 8270-Modified |                 | 04/24/25  | 04/29/25  |                 |
| <b>Q1870-01DL<br/>2</b> | <b>38072-010925DL2</b> | <b>Water</b> |               |               | <b>04/21/25</b> |           |           | <b>04/23/25</b> |
|                         |                        |              | SVOCMS Group5 | 8270-Modified |                 | 04/24/25  | 04/29/25  |                 |
| <b>Q1870-03</b>         | <b>38073-100124</b>    | <b>Water</b> |               |               | <b>04/22/25</b> |           |           | <b>04/24/25</b> |
|                         |                        |              | SVOCMS Group2 | 8270E         |                 | 04/24/25  | 04/29/25  |                 |



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

**SDG No.:** Q1870

**Client:** Alliance Technical Group, LLC - Newark

| Sample ID                          | Client ID       |       | Parameter                   | Concentration | C  | MDL           | RDL | Units |
|------------------------------------|-----------------|-------|-----------------------------|---------------|----|---------------|-----|-------|
| <b>Client ID : 38072-010925</b>    |                 |       |                             |               |    |               |     |       |
| Q1870-01                           | 38072-010925    | WATER | Acenaphthylene              | 240.000       | E  | 0.04          | 0.1 | ug/L  |
|                                    |                 |       | <b>Total Svoc :</b>         |               |    | <b>240.00</b> |     |       |
|                                    |                 |       | <b>Total Concentration:</b> |               |    | <b>240.00</b> |     |       |
| <b>Client ID : 38072-010925DL</b>  |                 |       |                             |               |    |               |     |       |
| Q1870-01DL                         | 38072-010925DL  | WATER | Acenaphthylene              | 240.000       | ED | 0.19          | 0.5 | ug/L  |
|                                    |                 |       | <b>Total Svoc :</b>         |               |    | <b>240.00</b> |     |       |
|                                    |                 |       | <b>Total Concentration:</b> |               |    | <b>240.00</b> |     |       |
| <b>Client ID : 38072-010925DL2</b> |                 |       |                             |               |    |               |     |       |
| Q1870-01DL2                        | 38072-010925DL2 | WATER | Acenaphthylene              | 230.000       | D  | 1.9           | 5   | ug/L  |
|                                    |                 |       | <b>Total Svoc :</b>         |               |    | <b>230.00</b> |     |       |
|                                    |                 |       | <b>Total Concentration:</b> |               |    | <b>230.00</b> |     |       |



# QC SUMMARY

## Surrogate Summary

SW-846

SDG No.: Q1870

Client: Alliance Technical Group, LLC - Newark

Analytical Method: 8270-Modified

| Lab Sample ID | Client ID       | Parameter               | Spike (PPM) | Result (PPM) | Recovery (%) | Qual | Limits (%) |      |
|---------------|-----------------|-------------------------|-------------|--------------|--------------|------|------------|------|
|               |                 |                         |             |              |              |      | Low        | High |
| PB167728BL    | PB167728BL      | 2-Methylnaphthalene-d10 | 0.4         | 0.32         | 81           |      | 20         | 139  |
|               |                 | Fluoranthene-d10        | 0.4         | 0.36         | 90           |      | 30         | 150  |
|               |                 | Nitrobenzene-d5         | 0.4         | 0.33         | 82           |      | 27         | 154  |
|               |                 | 2-Fluorobiphenyl        | 0.4         | 0.35         | 88           |      | 25         | 149  |
|               |                 | Terphenyl-d14           | 0.4         | 0.37         | 91           |      | 54         | 175  |
| PB167728BS    | PB167728BS      | 2-Methylnaphthalene-d10 | 0.4         | 0.37         | 93           |      | 20         | 139  |
|               |                 | Fluoranthene-d10        | 0.4         | 0.33         | 82           |      | 30         | 150  |
|               |                 | Nitrobenzene-d5         | 0.4         | 0.35         | 87           |      | 27         | 154  |
|               |                 | 2-Fluorobiphenyl        | 0.4         | 0.37         | 92           |      | 25         | 149  |
|               |                 | Terphenyl-d14           | 0.4         | 0.36         | 89           |      | 54         | 175  |
| Q1870-01      | 38072-010925    | 2-Methylnaphthalene-d10 | 0.4         | 0.42         | 105          |      | 20         | 139  |
|               |                 | Fluoranthene-d10        | 0.4         | 0.46         | 115          |      | 30         | 150  |
|               |                 | Nitrobenzene-d5         | 0.4         | 0.42         | 104          |      | 27         | 154  |
|               |                 | 2-Fluorobiphenyl        | 0.4         | 0.41         | 103          |      | 25         | 149  |
|               |                 | Terphenyl-d14           | 0.4         | 0.37         | 93           |      | 54         | 175  |
| Q1870-01DL    | 38072-010925DL  | 2-Methylnaphthalene-d10 | 0.4         | 0.42         | 104          |      | 20         | 139  |
|               |                 | Fluoranthene-d10        | 0.4         | 0.44         | 110          |      | 30         | 150  |
|               |                 | Nitrobenzene-d5         | 0.4         | 0.42         | 105          |      | 27         | 154  |
|               |                 | 2-Fluorobiphenyl        | 0.4         | 0.41         | 101          |      | 25         | 149  |
|               |                 | Terphenyl-d14           | 0.4         | 0.35         | 88           |      | 54         | 175  |
| Q1870-01DL2   | 38072-010925DL2 | 2-Methylnaphthalene-d10 | 0.4         | 0            | 0            | *    | 20         | 139  |
|               |                 | Fluoranthene-d10        | 0.4         | 0            | 0            | *    | 30         | 150  |
|               |                 | Nitrobenzene-d5         | 0.4         | 0            | 0            | *    | 27         | 154  |
|               |                 | 2-Fluorobiphenyl        | 0.4         | 0            | 0            | *    | 25         | 149  |
|               |                 | Terphenyl-d14           | 0.4         | 0            | 0            | *    | 54         | 175  |

## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1870

Client: Alliance Technical Group, LLC - Newark

Analytical Method: 8270-Modified DataFile: BN036939.D

| Lab Sample ID | Parameter      | Spike | Result | Unit | Rec | RPD | Qual | RPD  | Low | Limits | RPD |
|---------------|----------------|-------|--------|------|-----|-----|------|------|-----|--------|-----|
|               |                |       |        |      |     |     |      | Qual |     | High   |     |
| PB167728BS    | Acenaphthylene | 0.4   | 0.37   | ug/L | 93  |     |      |      | 60  | 119    |     |

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167728BL

Lab Name: CHEMTECH

Contract: ALLI03

Lab Code: CHEM Case No.: Q1870

SAS No.: Q1870 SDG NO.: Q1870

Lab File ID: BN036934.D

Lab Sample ID: PB167728BL

Instrument ID: BNA\_N

Date Extracted: 04/24/2025

Matrix: (soil/water) Water

Date Analyzed: 04/29/2025

Level: (low/med) LOW

Time Analyzed: 09:53

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 |
|-------------------|------------------|----------------|------------------|
| PB167728BS        | PB167728BS       | BN036939.D     | 04/29/2025       |
| 38072-010925      | Q1870-01         | BN036936.D     | 04/29/2025       |

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



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: ALLI03Lab Code: CHEMSAS No.: Q1870 SDG NO.: Q1870Lab File ID: BN036922.DDFTPP Injection Date: 04/28/2025Instrument ID: BNA\_NDFTPP Injection Time: 10:56

| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 51  | 10.0 - 80.0% of mass 198           | 67.4                 |
| 68  | Less than 2.0% of mass 69          | 0.8 ( 1.4 ) 1        |
| 69  | Mass 69 relative abundance         | 58.8                 |
| 70  | Less than 2.0% of mass 69          | 0.2 ( 0.4 ) 1        |
| 127 | 10.0 - 80.0% of mass 198           | 54.3                 |
| 197 | Less than 2.0% of mass 198         | 0.0                  |
| 198 | Base Peak, 100% relative abundance | 100                  |
| 199 | 5.0 to 9.0% of mass 198            | 6.7                  |
| 275 | 10.0 - 60.0% of mass 198           | 23.7                 |
| 365 | Greater than 1% of mass 198        | 3.8                  |
| 441 | Present, but less than mass 443    | 8.4                  |
| 442 | Greater than 50% of mass 198       | 100                  |
| 443 | 15.0 - 24.0% of mass 442           | 9.3 ( 19.4 ) 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       | BN036923.D     | 04/28/2025       | 11:35            |
| SSTDICC0.2        | SSTDICC0.2       | BN036924.D     | 04/28/2025       | 12:11            |
| SSTDICCC0.4       | SSTDICCC0.4      | BN036925.D     | 04/28/2025       | 12:47            |
| SSTDICC0.8        | SSTDICC0.8       | BN036926.D     | 04/28/2025       | 13:24            |
| SSTDICC1.6        | SSTDICC1.6       | BN036927.D     | 04/28/2025       | 14:00            |
| SSTDICC3.2        | SSTDICC3.2       | BN036928.D     | 04/28/2025       | 14:36            |
| SSTDICC5.0        | SSTDICC5.0       | BN036929.D     | 04/28/2025       | 15:12            |



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: ALLI03Lab Code: CHEMSAS No.: Q1870 SDG NO.: Q1870Lab File ID: BN036932.DDFTPP Injection Date: 04/29/2025Instrument ID: BNA\_NDFTPP Injection Time: 08:38

| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 51  | 10.0 - 80.0% of mass 198           | 70.2                 |
| 68  | Less than 2.0% of mass 69          | 0.8 ( 1.3 ) 1        |
| 69  | Mass 69 relative abundance         | 59.7                 |
| 70  | Less than 2.0% of mass 69          | 0.3 ( 0.6 ) 1        |
| 127 | 10.0 - 80.0% of mass 198           | 54.5                 |
| 197 | Less than 2.0% of mass 198         | 0.0                  |
| 198 | Base Peak, 100% relative abundance | 100                  |
| 199 | 5.0 to 9.0% of mass 198            | 7                    |
| 275 | 10.0 - 60.0% of mass 198           | 23.1                 |
| 365 | Greater than 1% of mass 198        | 3.7                  |
| 441 | Present, but less than mass 443    | 7.7                  |
| 442 | Greater than 50% of mass 198       | 100                  |
| 443 | 15.0 - 24.0% of mass 442           | 9.9 ( 21.2 ) 2       |

1-Value is % mass 69

2-Value is % mass 442

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

| EPA<br>SAMPLE NO. | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE<br>ANALYZED | TIME<br>ANALYZED |
|-------------------|------------------|----------------|------------------|------------------|
| SSTDCCC0.4        | SSTDCCC0.4       | BN036933.D     | 04/29/2025       | 09:17            |
| PB167728BL        | PB167728BL       | BN036934.D     | 04/29/2025       | 09:53            |
| 38072-010925      | Q1870-01         | BN036936.D     | 04/29/2025       | 13:05            |
| 38072-010925DL    | Q1870-01DL       | BN036937.D     | 04/29/2025       | 13:41            |
| 38072-010925DL2   | Q1870-01DL2      | BN036938.D     | 04/29/2025       | 14:17            |
| PB167728BS        | PB167728BS       | BN036939.D     | 04/29/2025       | 14:54            |

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1870 SAS No.: Q1870 SDG NO.: Q1870

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 04/29/2025

Lab File ID: BN036933.D Time Analyzed: 09:17

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        | 2604                | 7.633 | 6625                | 10.40  | 3573                | 14.28  |
| UPPER LIMIT        | 5208                | 8.133 | 13250               | 10.904 | 7146                | 14.777 |
| LOWER LIMIT        | 1302                | 7.133 | 3312.5              | 9.904  | 1786.5              | 13.777 |
| EPA SAMPLE NO.     |                     |       |                     |        |                     |        |
| 01 PB167728BL      | 2379                | 7.63  | 5573                | 10.42  | 2873                | 14.28  |
| 02 38072-010925    | 1925                | 7.63  | 5445                | 10.42  | 3190                | 14.28  |
| 03 38072-010925DL  | 2660                | 7.63  | 7273                | 10.40  | 4170                | 14.28  |
| 04 PB167728BS      | 2630                | 7.63  | 6464                | 10.42  | 3313                | 14.28  |
| 05 38072-010925DL2 | 2432                | 7.63  | 6295                | 10.42  | 3589                | 14.28  |

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.: Q1870 SAS No.: Q1870 SDG NO.: Q1870

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 04/29/2025

Lab File ID: BN036933.D Time Analyzed: 09:17

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        | 6894                | 17.021 | 5083                | 21.216 | 4284                | 23.427 |
| UPPER LIMIT        | 13788               | 17.521 | 10166               | 21.716 | 8568                | 23.927 |
| LOWER LIMIT        | 3447                | 16.521 | 2541.5              | 20.716 | 2142                | 22.927 |
| EPA SAMPLE NO.     |                     |        |                     |        |                     |        |
| 01 PB167728BL      | 5718                | 17.02  | 4280                | 21.22  | 3789                | 23.42  |
| 02 38072-010925    | 6294                | 17.02  | 6093                | 21.23  | 4542                | 23.43  |
| 03 38072-010925DL  | 7996                | 17.02  | 7787                | 21.22  | 5957                | 23.43  |
| 04 PB167728BS      | 6630                | 17.02  | 4615                | 21.22  | 3648                | 23.43  |
| 05 38072-010925DL2 | 7137                | 17.02  | 6695                | 21.22  | 5501                | 23.43  |

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:            | Alliance Technical Group, LLC - Newark | Date Collected: | 04/21/25      |
| Project:           | NJ Waste Water PT                      | Date Received:  | 04/23/25      |
| Client Sample ID:  | 38072-010925                           | SDG No.:        | Q1870         |
| Lab Sample ID:     | Q1870-01                               | Matrix:         | Water         |
| Analytical Method: | SW8270ESIM                             | % Solid:        | 0             |
| Sample Wt/Vol:     | 1000 Units: mL                         | Final Vol:      | 1000 uL       |
| Soil Aliquot Vol:  | uL                                     | Test:           | SVOCMS Group5 |
| 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 |
| BN036936.D        | 1         | 04/24/25 12:05 | 04/29/25 13:05 | PB167728      |

| CAS Number                | Parameter               | Conc. | Qualifier | MDL      | LOQ / CRQL | Units    |
|---------------------------|-------------------------|-------|-----------|----------|------------|----------|
| <b>TARGETS</b>            |                         |       |           |          |            |          |
| 208-96-8                  | Acenaphthylene          | 240   | E         | 0.040    | 0.10       | ug/L     |
| <b>SURROGATES</b>         |                         |       |           |          |            |          |
| 7297-45-2                 | 2-Methylnaphthalene-d10 | 0.42  |           | 20 - 139 | 105%       | SPK: 0.4 |
| 93951-69-0                | Fluoranthene-d10        | 0.46  |           | 30 - 150 | 115%       | SPK: 0.4 |
| 4165-60-0                 | Nitrobenzene-d5         | 0.42  |           | 27 - 154 | 104%       | SPK: 0.4 |
| 321-60-8                  | 2-Fluorobiphenyl        | 0.41  |           | 25 - 149 | 103%       | SPK: 0.4 |
| 1718-51-0                 | Terphenyl-d14           | 0.37  |           | 54 - 175 | 93%        | SPK: 0.4 |
| <b>INTERNAL STANDARDS</b> |                         |       |           |          |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4  | 1930  | 7.633     |          |            |          |
| 1146-65-2                 | Naphthalene-d8          | 5450  | 10.415    |          |            |          |
| 15067-26-2                | Acenaphthene-d10        | 3190  | 14.277    |          |            |          |
| 1517-22-2                 | Phenanthrene-d10        | 6290  | 17.021    |          |            |          |
| 1719-03-5                 | Chrysene-d12            | 6090  | 21.225    |          |            |          |
| 1520-96-3                 | Perylene-d12            | 4540  | 23.427    |          |            |          |

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\BN042925\  
 Data File : BN036936.D  
 Acq On : 29 Apr 2025 13:05  
 Operator : RC/JU  
 Sample : Q1870-01  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 38072-010925

Quant Time: Apr 29 13:29:18 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN042825.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Apr 28 15:35:03 2025  
 Response via : Initial Calibration

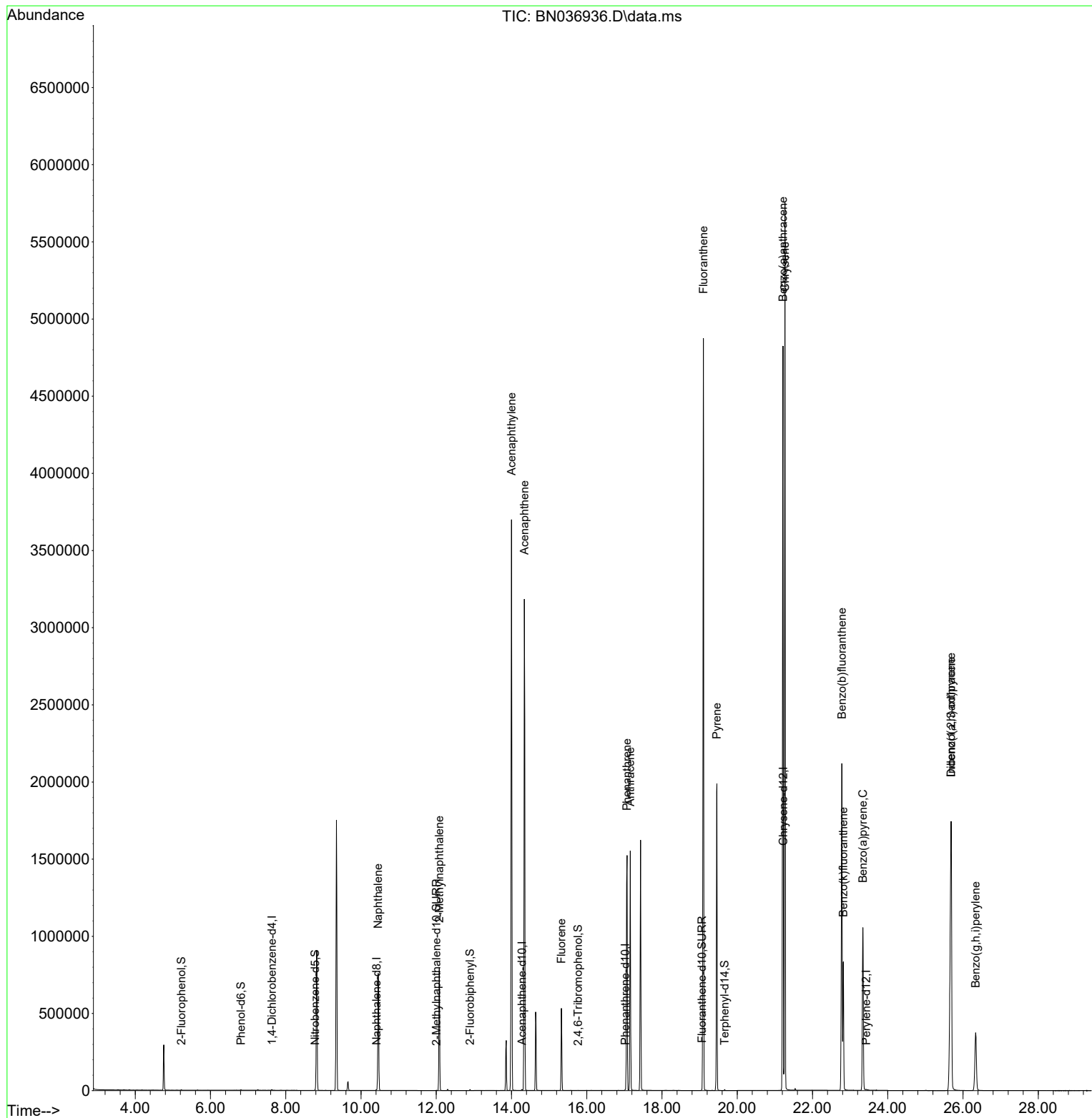
| Compound                    | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-----------------------------|--------|------|----------|---------|-------|----------|
| -----                       |        |      |          |         |       |          |
| Internal Standards          |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.633  | 152  | 1925     | 0.400   | ng    | 0.00     |
| 7) Naphthalene-d8           | 10.415 | 136  | 5445     | 0.400   | ng    | 0.00     |
| 13) Acenaphthene-d10        | 14.277 | 164  | 3190     | 0.400   | ng    | 0.00     |
| 19) Phenanthrene-d10        | 17.021 | 188  | 6294     | 0.400   | ng    | 0.00     |
| 29) Chrysene-d12            | 21.225 | 240  | 6093     | 0.400   | ng    | 0.00     |
| 35) Perylene-d12            | 23.427 | 264  | 4542     | 0.400   | ng    | 0.00     |
|                             |        |      |          |         |       |          |
| System Monitoring Compounds |        |      |          |         |       |          |
| 4) 2-Fluorophenol           | 5.228  | 112  | 1734     | 0.352   | ng    | 0.00     |
| 5) Phenol-d6                | 6.810  | 99   | 2400     | 0.396   | ng    | 0.00     |
| 8) Nitrobenzene-d5          | 8.782  | 82   | 2370     | 0.416   | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10 | 12.006 | 152  | 3196     | 0.420   | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol    | 15.768 | 330  | 303      | 0.213   | ng    | 0.00     |
| 15) 2-Fluorobiphenyl        | 12.899 | 172  | 6365     | 0.413   | ng    | 0.00     |
| 27) Fluoranthene-d10        | 19.063 | 212  | 7536     | 0.462   | ng    | 0.00     |
| 31) Terphenyl-d14           | 19.663 | 244  | 5329     | 0.371   | ng    | 0.00     |
|                             |        |      |          |         |       |          |
| Target Compounds            |        |      |          |         |       | Qvalue   |
| 9) Naphthalene              | 10.458 | 128  | 916595   | 57.839  | ng    | 98       |
| 12) 2-Methylnaphthalene     | 12.082 | 142  | 515219   | 50.291  | ng    | 99       |
| 16) Acenaphthylene          | 13.999 | 152  | 3723039  | 238.798 | ng    | 99       |
| 17) Acenaphthene            | 14.342 | 154  | 1522189  | 148.602 | ng    | 95       |
| 18) Fluorene                | 15.325 | 166  | 299838   | 22.381  | ng    | 99       |
| 25) Phenanthrene            | 17.071 | 178  | 1651033  | 79.476  | ng    | 100      |
| 26) Anthracene              | 17.158 | 178  | 1384185  | 73.661  | ng    | 100      |
| 28) Fluoranthene            | 19.101 | 202  | 4394407  | 188.748 | ng    | 98       |
| 30) Pyrene                  | 19.458 | 202  | 1714365  | 58.420  | ng    | 98       |
| 32) Benzo(a)anthracene      | 21.216 | 228  | 4066087  | 181.199 | ng    | 99       |
| 33) Chrysene                | 21.269 | 228  | 4265016  | 176.238 | ng    | 98       |
| 36) Indeno(1,2,3-cd)pyrene  | 25.684 | 276  | 2815525  | 151.786 | ng    | 95       |
| 37) Benzo(b)fluoranthene    | 22.781 | 252  | 2651471  | 138.833 | ng    | # 88     |
| 38) Benzo(k)fluoranthene    | 22.819 | 252  | 864365   | 45.004  | ng    | # 87     |
| 39) Benzo(a)pyrene          | 23.339 | 252  | 1407542  | 89.656  | ng    | # 81     |
| 40) Dibenzo(a,h)anthracene  | 25.684 | 278  | 699662   | 47.928  | ng    | # 88     |
| 41) Benzo(g,h,i)perylene    | 26.336 | 276  | 724777   | 44.737  | ng    | 98       |
| -----                       |        |      |          |         |       |          |

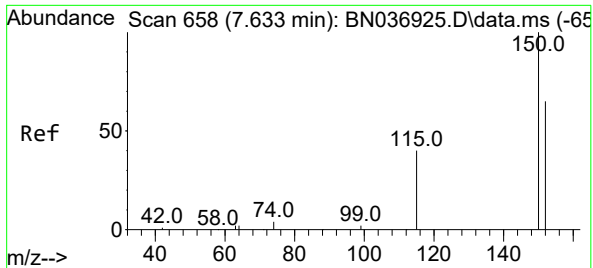
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN036936.D  
Acq On : 29 Apr 2025 13:05  
Operator : RC/JU  
Sample : Q1870-01  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
38072-010925

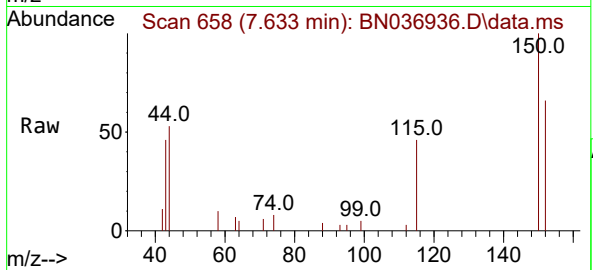
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Apr 28 15:35:03 2025  
Response via : Initial Calibration



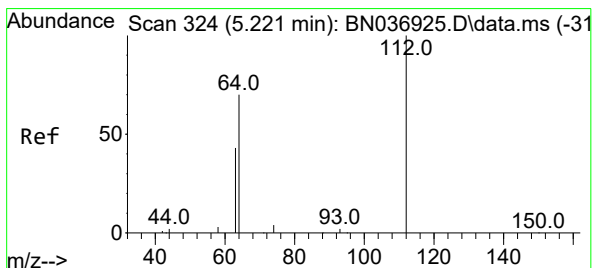
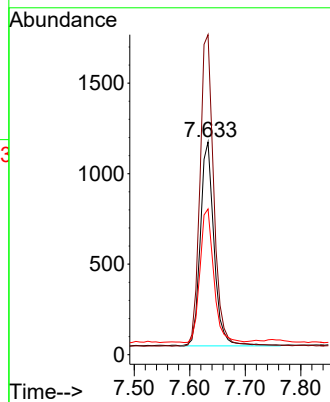
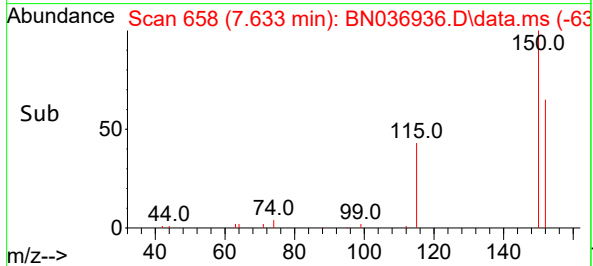


#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.633 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: BN036936.D  
Acq: 29 Apr 2025 13:05

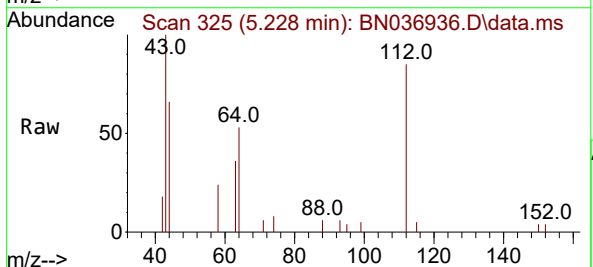
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BNA\_N  
ClientSampleId :  
38072-010925



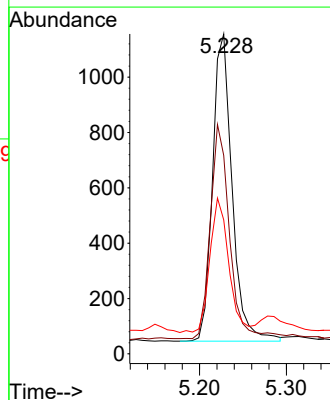
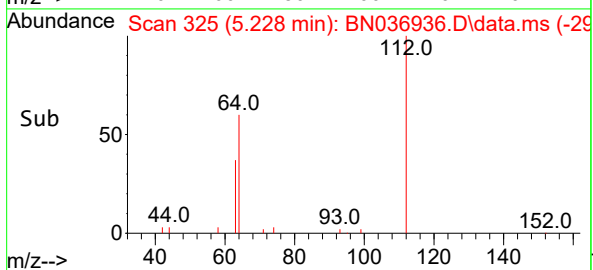
Tgt Ion:152 Resp: 1925  
Ion Ratio Lower Upper  
152 100  
150 150.5 121.1 181.7  
115 68.5 51.8 77.6

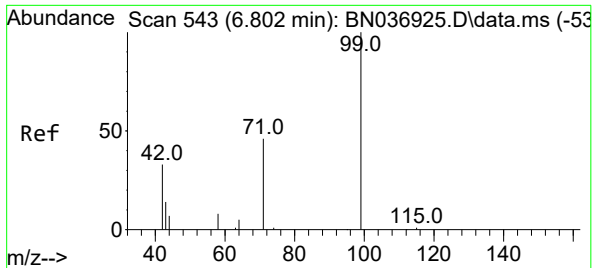


#4  
2-Fluorophenol  
Concen: 0.352 ng  
RT: 5.228 min Scan# 325  
Delta R.T. 0.007 min  
Lab File: BN036936.D  
Acq: 29 Apr 2025 13:05



Tgt Ion:112 Resp: 1734  
Ion Ratio Lower Upper  
112 100  
64 70.9 55.7 83.5  
63 42.2 33.9 50.9

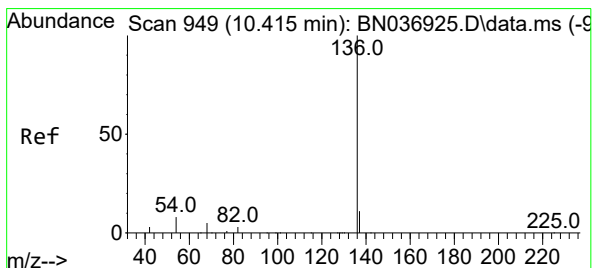
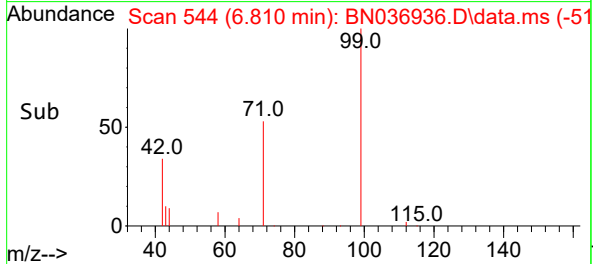
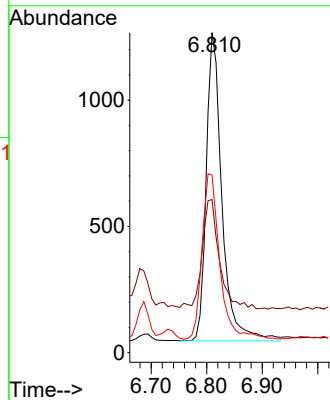
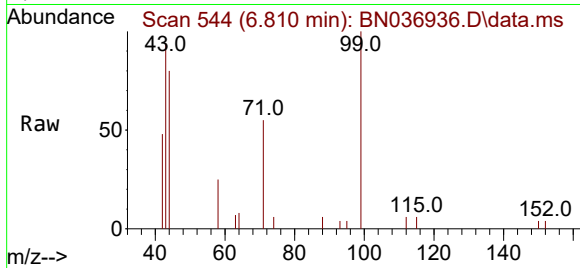




#5  
Phenol-d6  
Concen: 0.396 ng  
RT: 6.810 min Scan# 543  
Delta R.T. 0.007 min  
Lab File: BN036936.D  
Acq: 29 Apr 2025 13:05

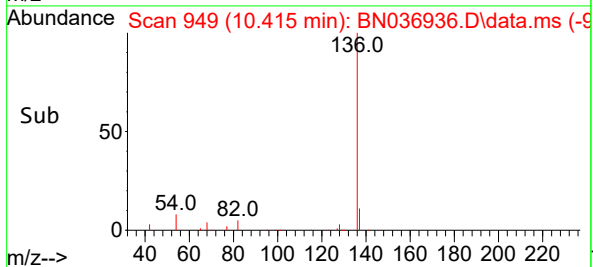
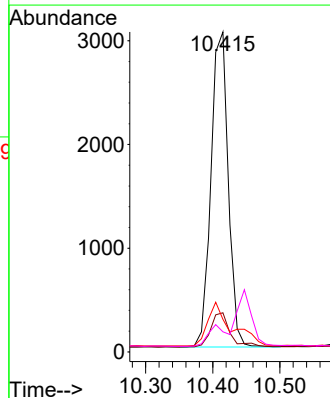
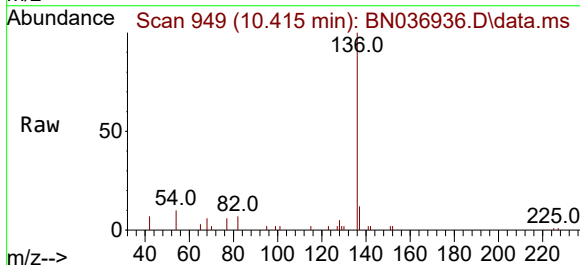
Instrument :  
BNA\_N  
ClientSampleId :  
38072-010925

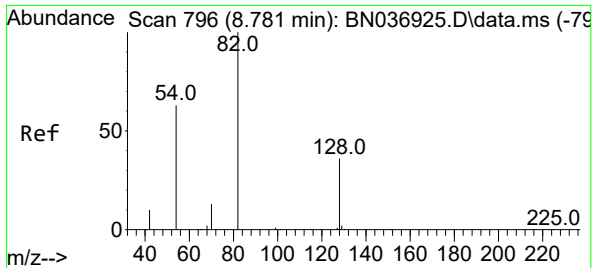
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 99      | 100   |       |       |
| 42      | 38.9  | 29.6  | 44.4  |
| 71      | 61.0  | 36.0  | 54.0  |



#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.415 min Scan# 949  
Delta R.T. 0.000 min  
Lab File: BN036936.D  
Acq: 29 Apr 2025 13:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 136     | 100   |       |       |
| 137     | 12.2  | 9.7   | 14.5  |
| 54      | 10.2  | 8.0   | 12.0  |
| 68      | 6.3   | 5.1   | 7.7   |

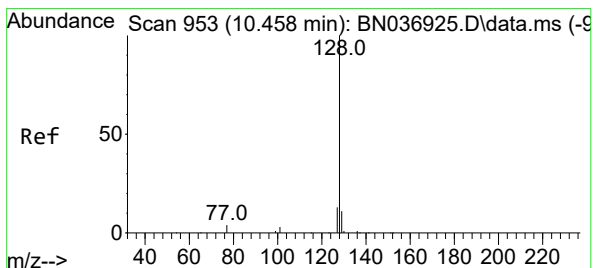
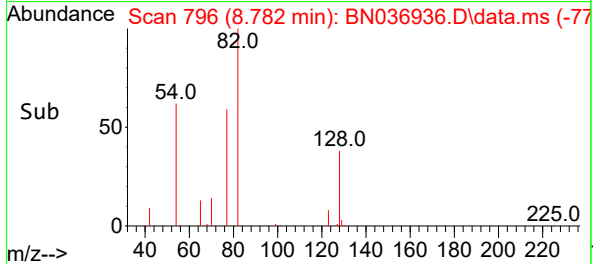
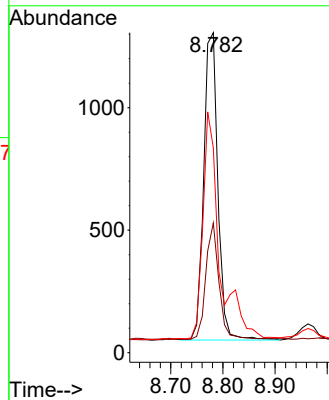
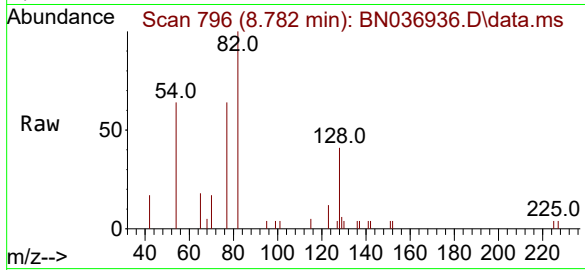




#8  
Nitrobenzene-d5  
Concen: 0.416 ng  
RT: 8.782 min Scan# 796  
Delta R.T. 0.000 min  
Lab File: BN036936.D  
Acq: 29 Apr 2025 13:05

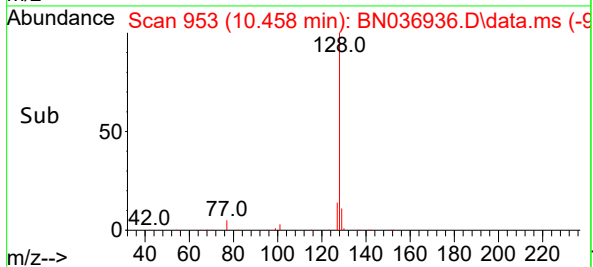
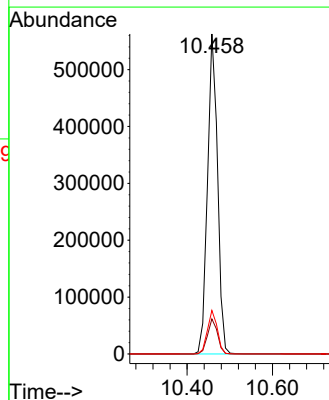
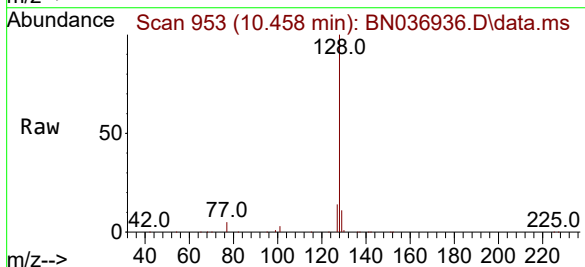
Instrument :  
BNA\_N  
ClientSampleId :  
38072-010925

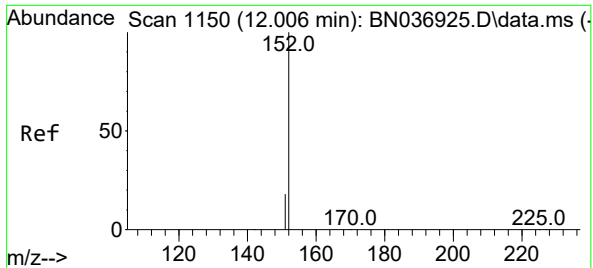
Tgt Ion: 82 Resp: 2370  
Ion Ratio Lower Upper  
82 100  
128 40.6 30.7 46.1  
54 64.0 52.1 78.1



#9  
Naphthalene  
Concen: 57.839 ng  
RT: 10.458 min Scan# 953  
Delta R.T. 0.000 min  
Lab File: BN036936.D  
Acq: 29 Apr 2025 13:05

Tgt Ion: 128 Resp: 916595  
Ion Ratio Lower Upper  
128 100  
129 11.0 9.8 14.6  
127 13.6 11.4 17.2

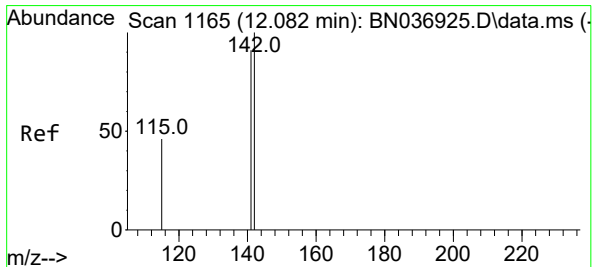
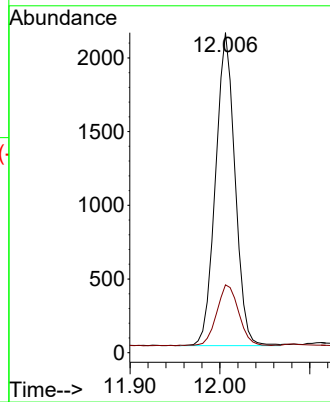
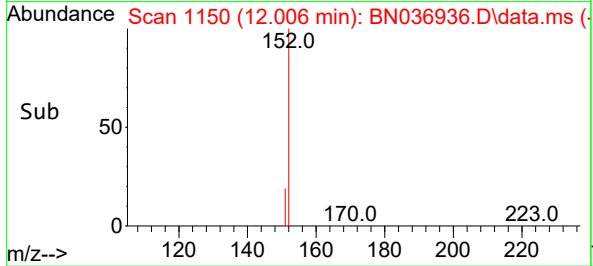
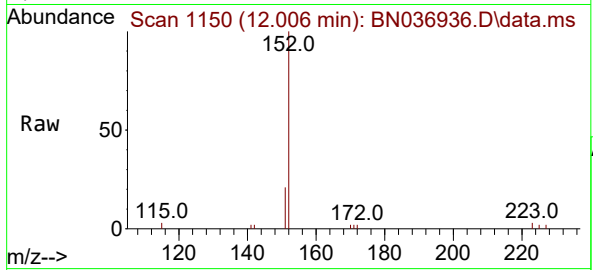




#11  
2-Methylnaphthalene-d10  
Concen: 0.420 ng  
RT: 12.006 min Scan# 1150  
Delta R.T. 0.000 min  
Lab File: BN036936.D  
Acq: 29 Apr 2025 13:05

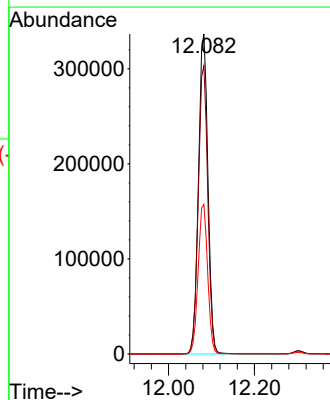
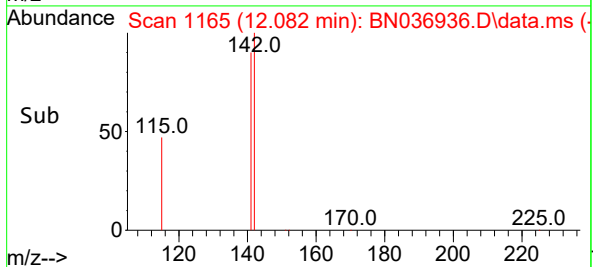
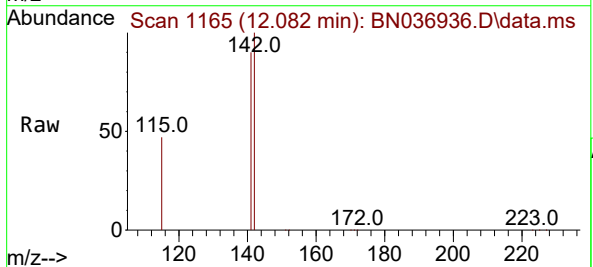
Instrument :  
BNA\_N  
ClientSampleId :  
38072-010925

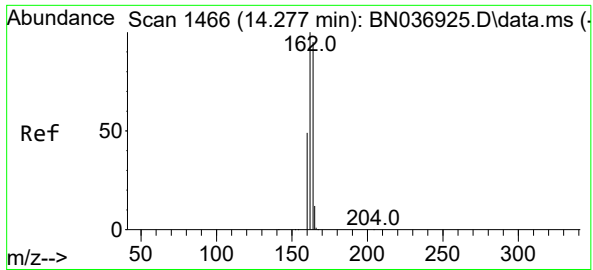
Tgt Ion:152 Resp: 3196  
Ion Ratio Lower Upper  
152 100  
151 21.9 16.9 25.3



#12  
2-Methylnaphthalene  
Concen: 50.291 ng  
RT: 12.082 min Scan# 1165  
Delta R.T. 0.000 min  
Lab File: BN036936.D  
Acq: 29 Apr 2025 13:05

Tgt Ion:142 Resp: 515219  
Ion Ratio Lower Upper  
142 100  
141 90.0 72.8 109.2  
115 46.7 38.2 57.4

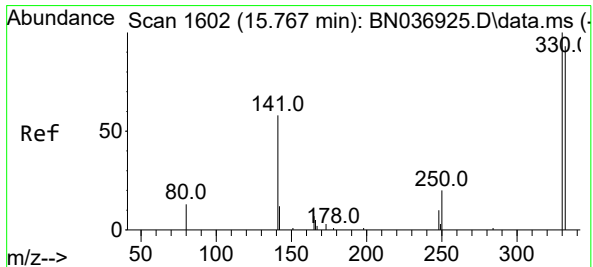
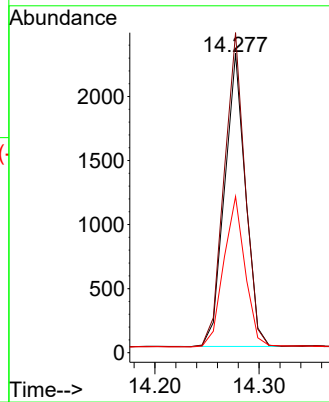
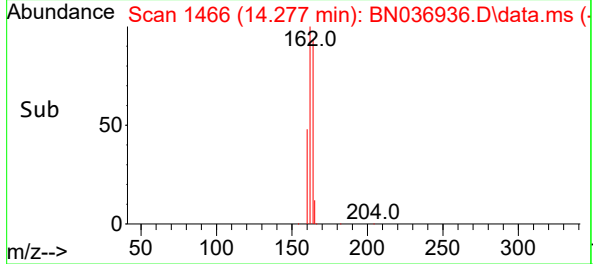
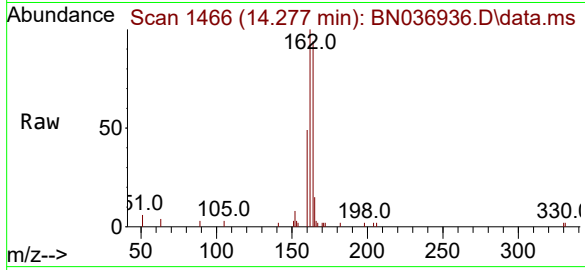




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.277 min Scan# 1466  
Delta R.T. 0.000 min  
Lab File: BN036936.D  
Acq: 29 Apr 2025 13:05

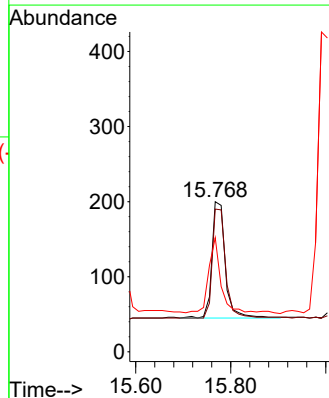
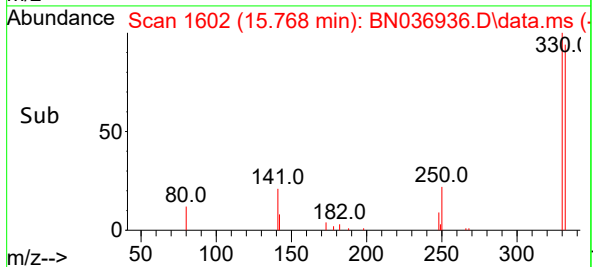
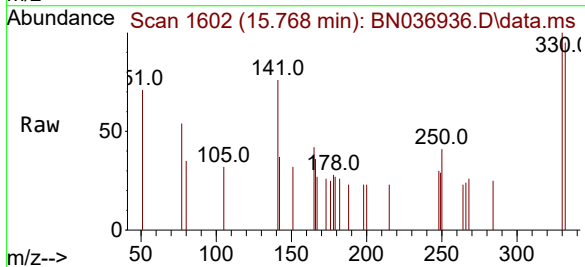
Instrument :  
BNA\_N  
ClientSampleId :  
38072-010925

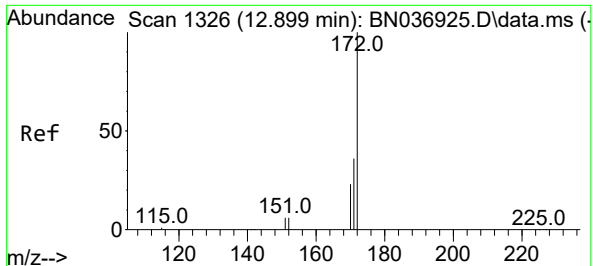
Tgt Ion:164 Resp: 3190  
Ion Ratio Lower Upper  
164 100  
162 106.8 83.8 125.8  
160 52.1 42.0 63.0



#14  
2,4,6-Tribromophenol  
Concen: 0.213 ng  
RT: 15.768 min Scan# 1602  
Delta R.T. 0.000 min  
Lab File: BN036936.D  
Acq: 29 Apr 2025 13:05

Tgt Ion:330 Resp: 303  
Ion Ratio Lower Upper  
330 100  
332 93.1 76.3 114.5  
141 57.8 45.4 68.2

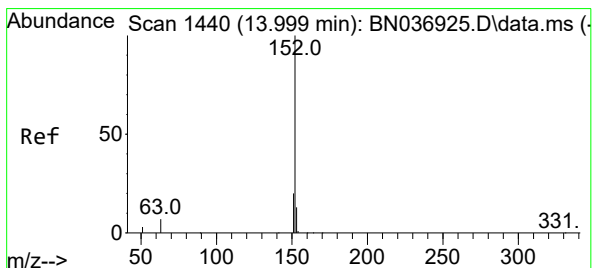
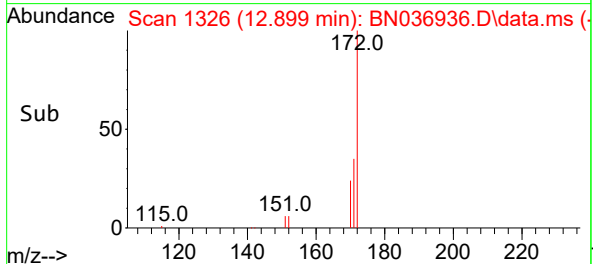
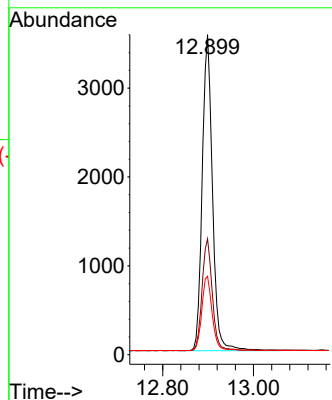
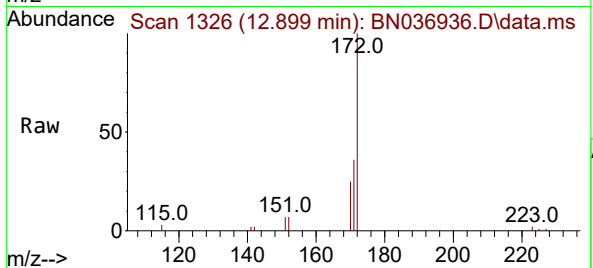




#15  
2-Fluorobiphenyl  
Concen: 0.413 ng  
RT: 12.899 min Scan# 1326  
Delta R.T. 0.000 min  
Lab File: BN036936.D  
Acq: 29 Apr 2025 13:05

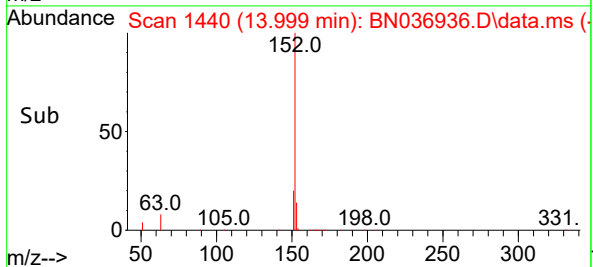
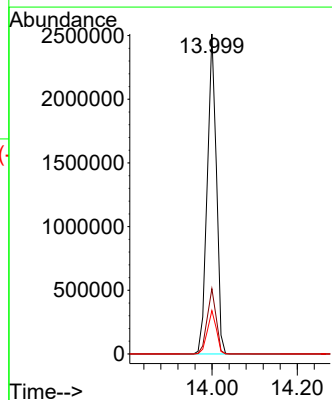
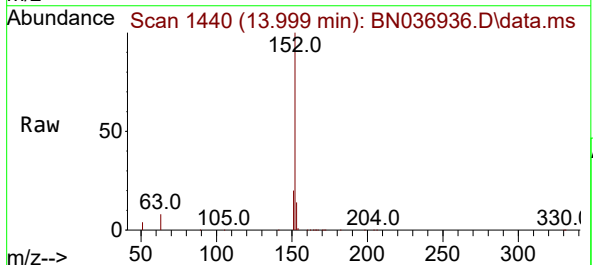
Instrument :  
BNA\_N  
ClientSampleId :  
38072-010925

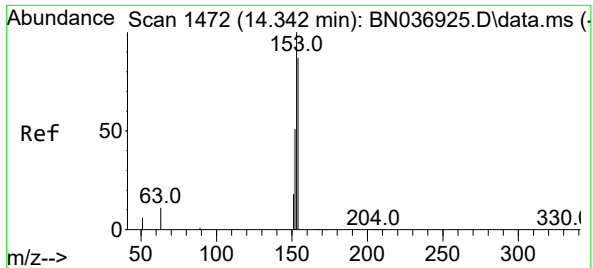
Tgt Ion:172 Resp: 6365  
Ion Ratio Lower Upper  
172 100  
171 36.2 29.4 44.0  
170 24.5 19.4 29.0



#16  
Acenaphthylene  
Concen: 238.798 ng  
RT: 13.999 min Scan# 1440  
Delta R.T. 0.000 min  
Lab File: BN036936.D  
Acq: 29 Apr 2025 13:05

Tgt Ion:152 Resp: 3723039  
Ion Ratio Lower Upper  
152 100  
151 20.2 16.0 24.0  
153 13.5 10.2 15.2

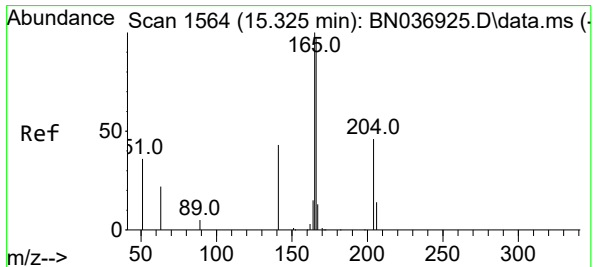
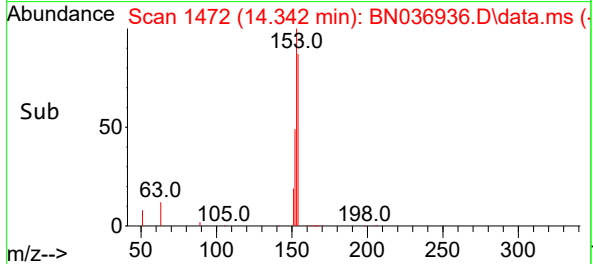
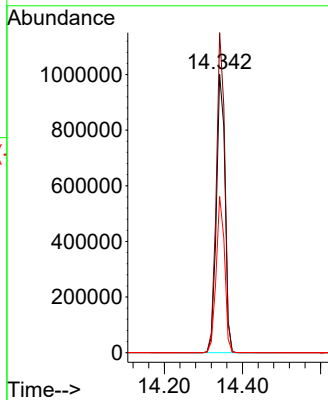
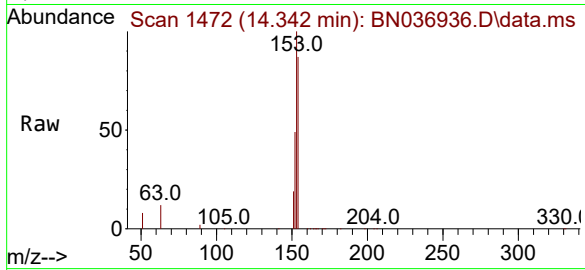




#17  
Acenaphthene  
Concen: 148.602 ng  
RT: 14.342 min Scan# 1472  
Delta R.T. 0.000 min  
Lab File: BN036936.D  
Acq: 29 Apr 2025 13:05

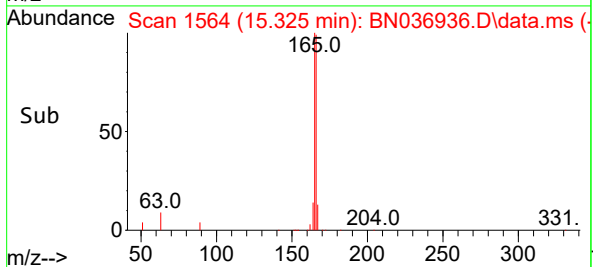
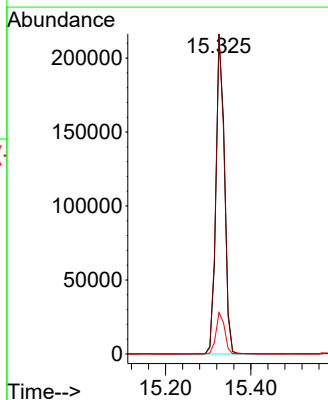
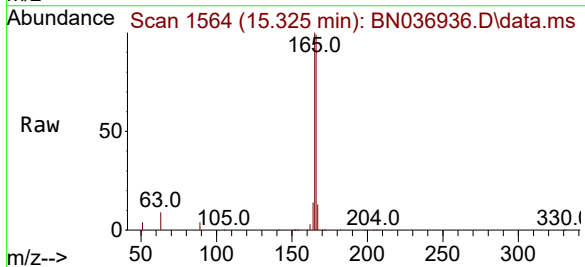
Instrument :  
BNA\_N  
ClientSampleId :  
38072-010925

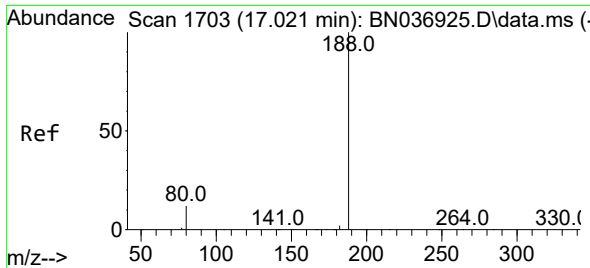
Tgt Ion:154 Resp: 1522189  
Ion Ratio Lower Upper  
154 100  
153 113.7 93.4 140.2  
152 55.1 49.5 74.3



#18  
Fluorene  
Concen: 22.381 ng  
RT: 15.325 min Scan# 1564  
Delta R.T. 0.000 min  
Lab File: BN036936.D  
Acq: 29 Apr 2025 13:05

Tgt Ion:166 Resp: 299838  
Ion Ratio Lower Upper  
166 100  
165 99.7 80.8 121.2  
167 13.2 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.021 min Scan# 11

Delta R.T. 0.000 min

Lab File: BN036936.D

Acq: 29 Apr 2025 13:05

Instrument :

BNA\_N

ClientSampleId :

38072-010925

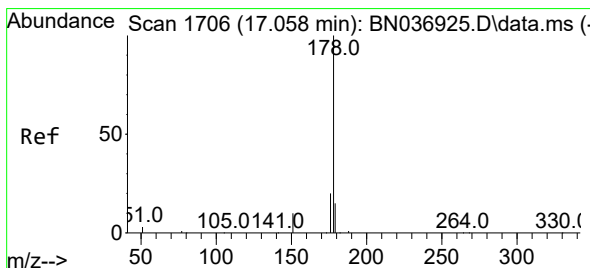
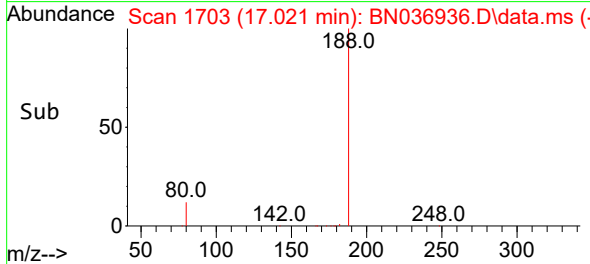
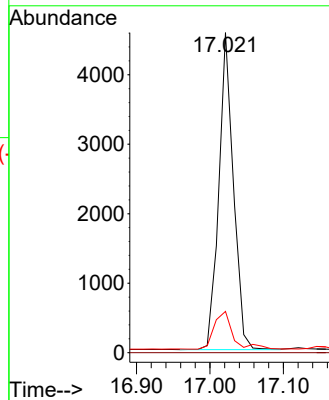
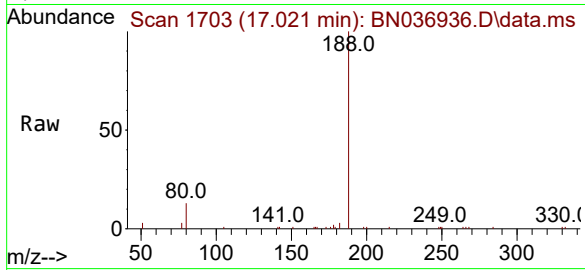
Tgt Ion:188 Resp: 6294

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 12.9 10.7 16.1



#25

Phenanthrene

Concen: 79.476 ng

RT: 17.071 min Scan# 1707

Delta R.T. 0.012 min

Lab File: BN036936.D

Acq: 29 Apr 2025 13:05

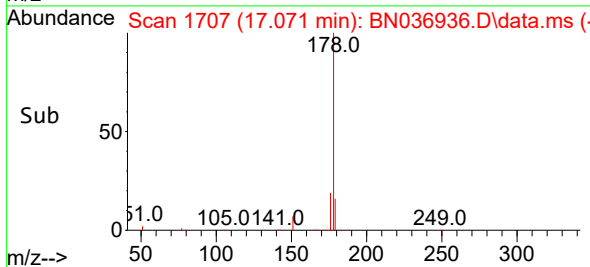
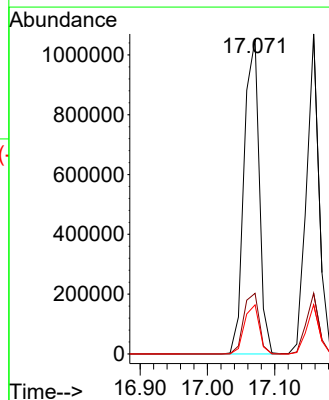
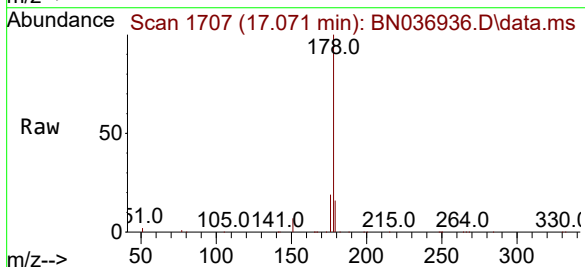
Tgt Ion:178 Resp: 1651033

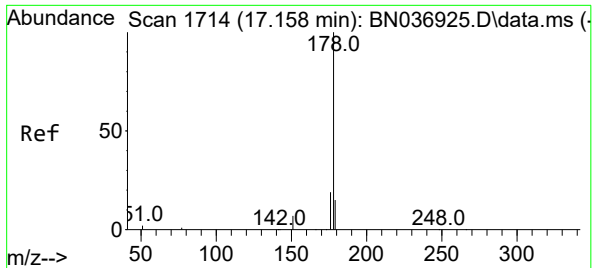
Ion Ratio Lower Upper

178 100

176 19.7 15.7 23.5

179 15.4 12.4 18.6

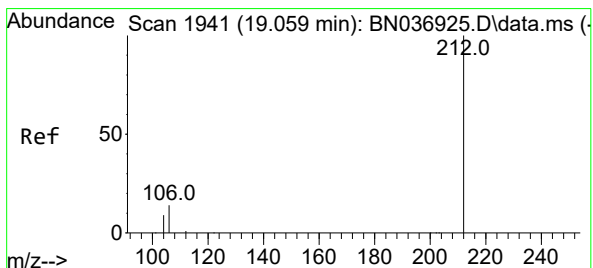
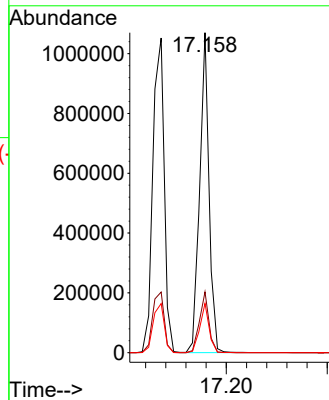
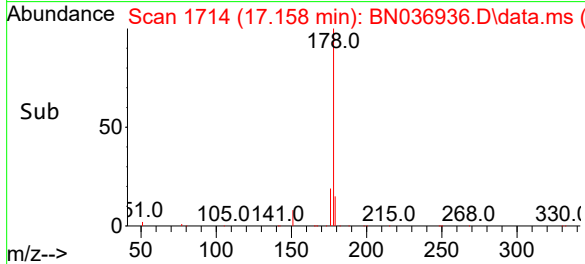
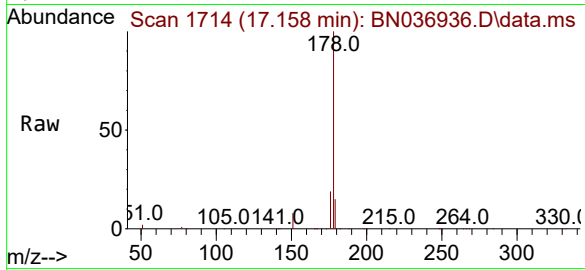




#26  
Anthracene  
Concen: 73.661 ng  
RT: 17.158 min Scan# 1714  
Delta R.T. 0.000 min  
Lab File: BN036936.D  
Acq: 29 Apr 2025 13:05

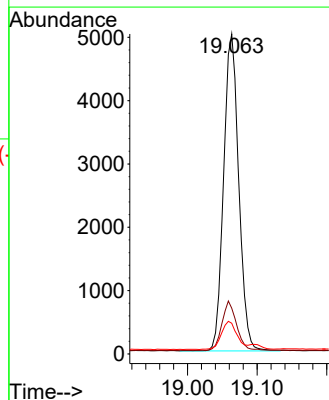
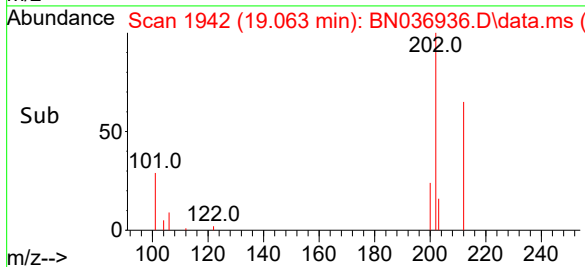
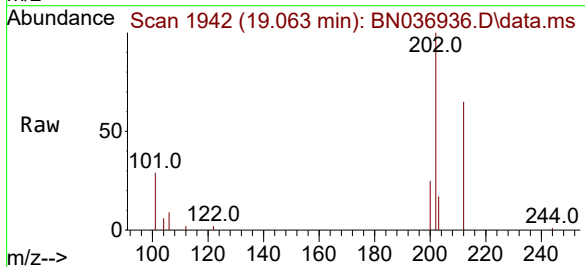
Instrument :  
BNA\_N  
ClientSampleId :  
38072-010925

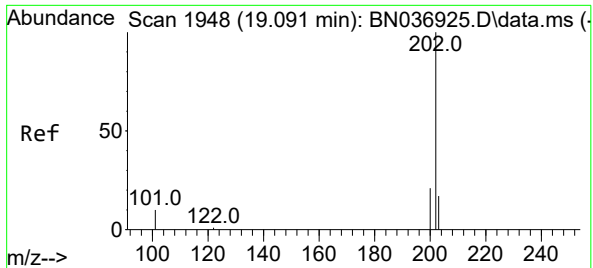
Tgt Ion:178 Resp: 1384185  
Ion Ratio Lower Upper  
178 100  
176 19.2 15.3 22.9  
179 15.3 12.1 18.1



#27  
Fluoranthene-d10  
Concen: 0.462 ng  
RT: 19.063 min Scan# 1942  
Delta R.T. 0.005 min  
Lab File: BN036936.D  
Acq: 29 Apr 2025 13:05

Tgt Ion:212 Resp: 7536  
Ion Ratio Lower Upper  
212 100  
106 15.2 11.6 17.4  
104 9.2 7.0 10.4

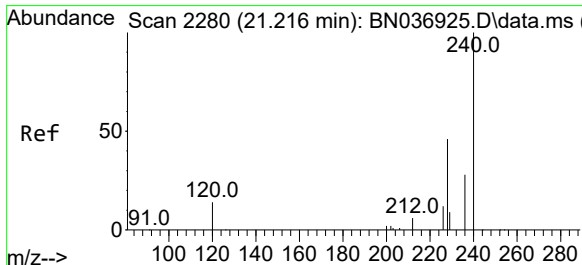
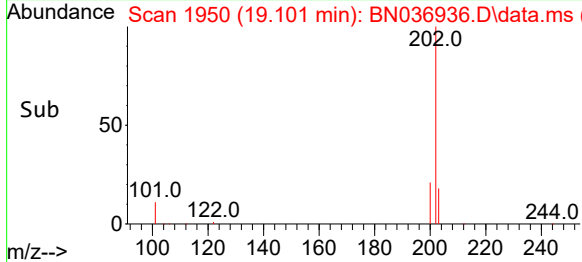
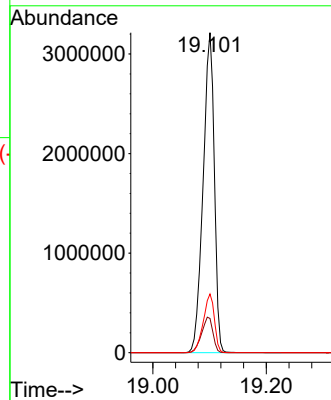
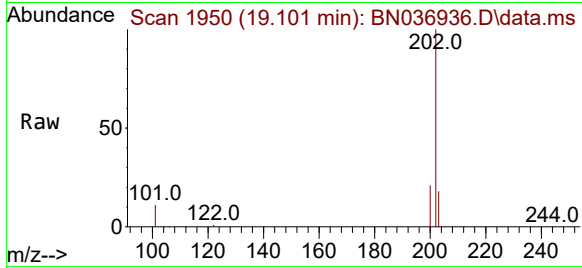




#28  
Fluoranthene  
Concen: 188.748 ng  
RT: 19.101 min Scan# 1948  
Delta R.T. 0.009 min  
Lab File: BN036936.D  
Acq: 29 Apr 2025 13:05

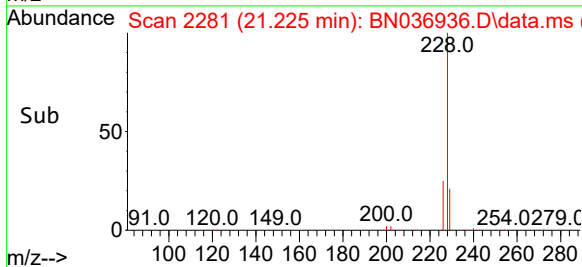
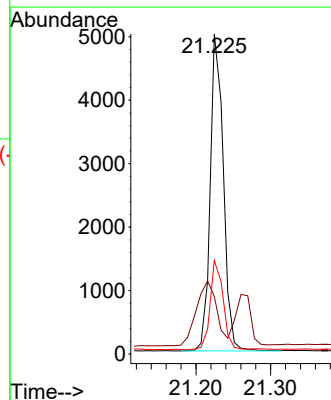
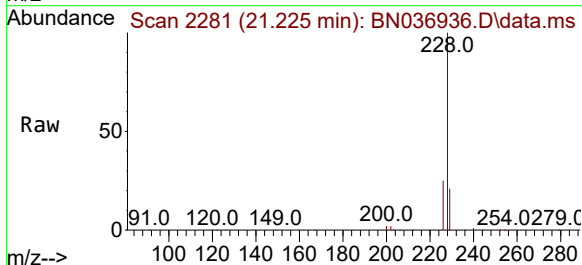
Instrument :  
BNA\_N  
ClientSampleId :  
38072-010925

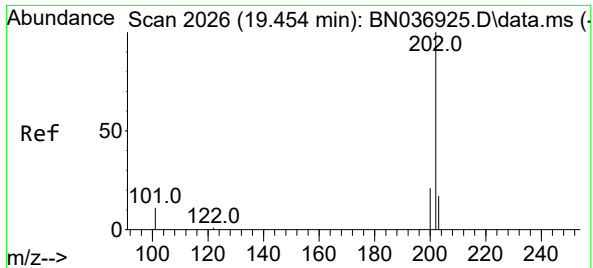
Tgt Ion:202 Resp: 4394407  
Ion Ratio Lower Upper  
202 100  
101 11.3 8.5 12.7  
203 18.2 13.7 20.5



#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.225 min Scan# 2281  
Delta R.T. 0.009 min  
Lab File: BN036936.D  
Acq: 29 Apr 2025 13:05

Tgt Ion:240 Resp: 6093  
Ion Ratio Lower Upper  
240 100  
120 18.0 14.1 21.1  
236 29.2 23.8 35.8

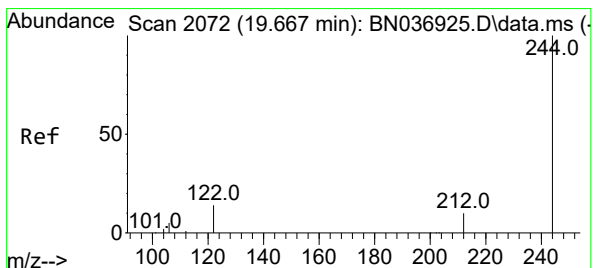
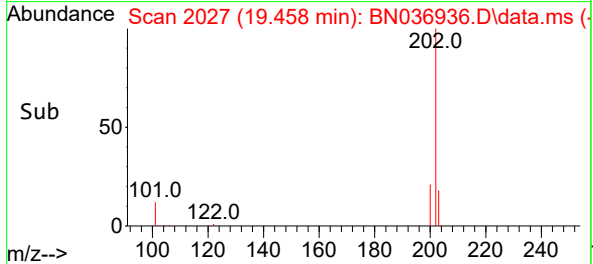
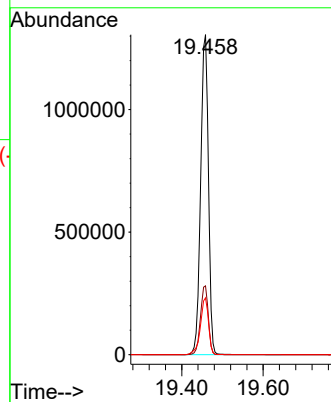
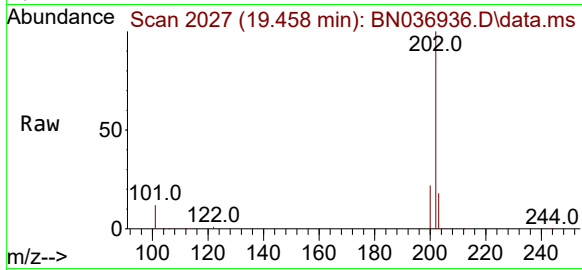




#30  
Pyrene  
Concen: 58.420 ng  
RT: 19.458 min Scan# 2026  
Delta R.T. 0.005 min  
Lab File: BN036936.D  
Acq: 29 Apr 2025 13:05

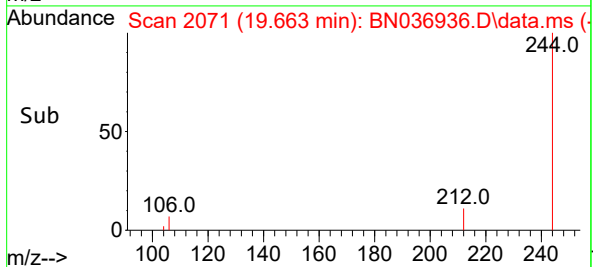
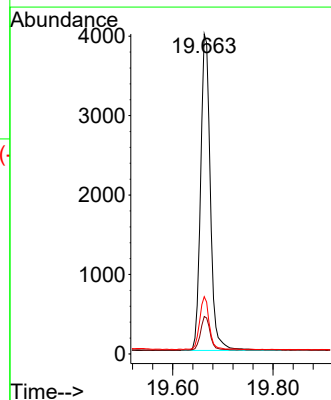
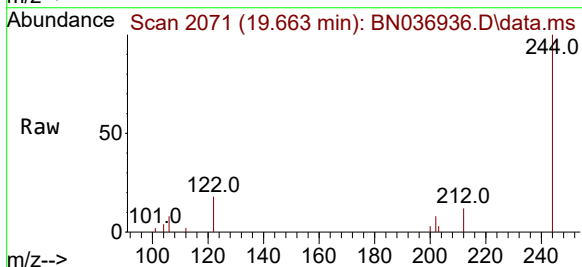
Instrument :  
BNA\_N  
ClientSampleId :  
38072-010925

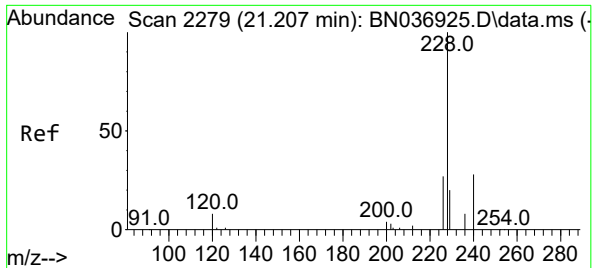
Tgt Ion:202 Resp: 1714365  
Ion Ratio Lower Upper  
202 100  
200 21.7 17.0 25.6  
203 18.6 14.0 21.0



#31  
Terphenyl-d14  
Concen: 0.371 ng  
RT: 19.663 min Scan# 2071  
Delta R.T. -0.005 min  
Lab File: BN036936.D  
Acq: 29 Apr 2025 13:05

Tgt Ion:244 Resp: 5329  
Ion Ratio Lower Upper  
244 100  
212 11.7 9.6 14.4  
122 17.9 12.7 19.1

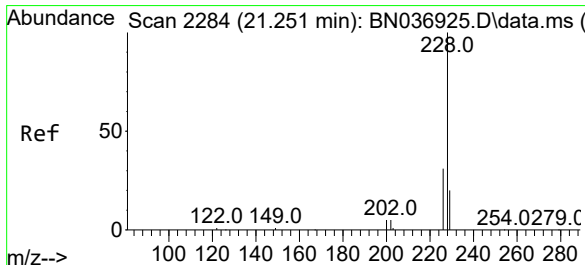
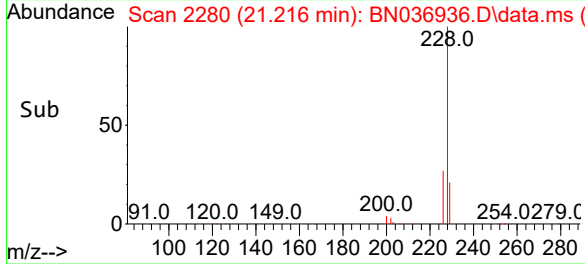
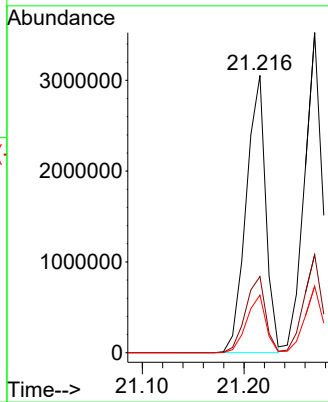
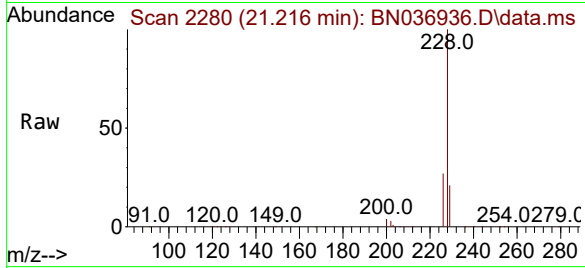




#32  
Benzo(a)anthracene  
Concen: 181.199 ng  
RT: 21.216 min Scan# 2128  
Delta R.T. 0.009 min  
Lab File: BN036936.D  
Acq: 29 Apr 2025 13:05

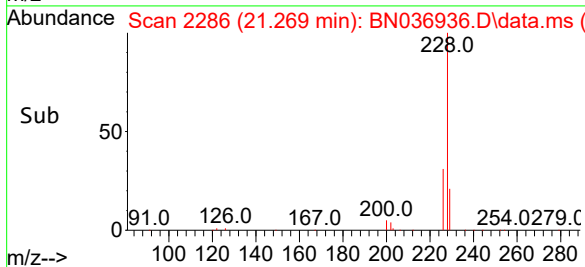
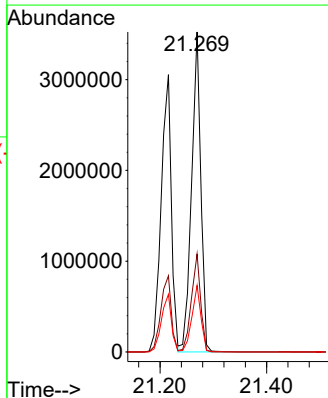
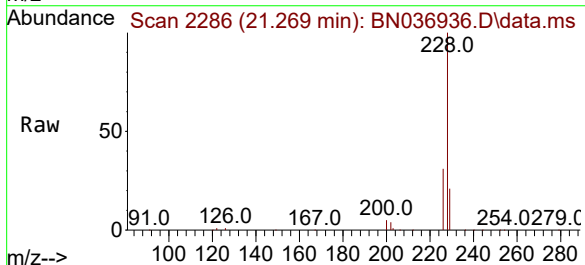
Instrument :  
BNA\_N  
ClientSampleId :  
38072-010925

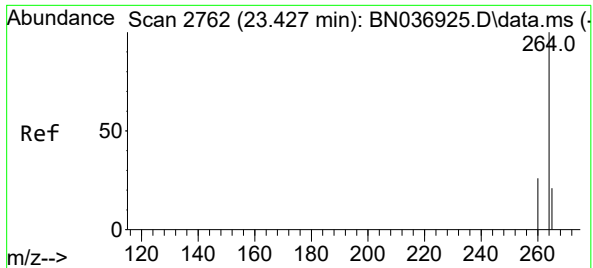
Tgt Ion:228 Resp: 4066087  
Ion Ratio Lower Upper  
228 100  
226 27.5 22.2 33.4  
229 20.8 16.4 24.6



#33  
Chrysene  
Concen: 176.238 ng  
RT: 21.269 min Scan# 2286  
Delta R.T. 0.018 min  
Lab File: BN036936.D  
Acq: 29 Apr 2025 13:05

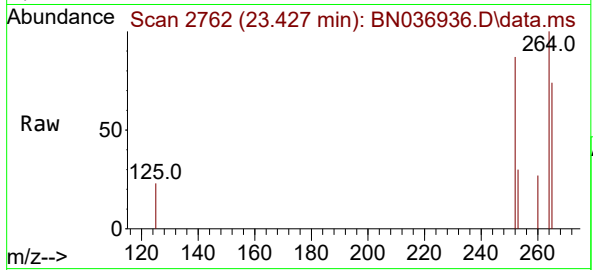
Tgt Ion:228 Resp: 4265016  
Ion Ratio Lower Upper  
228 100  
226 30.7 25.5 38.3  
229 20.8 16.5 24.7



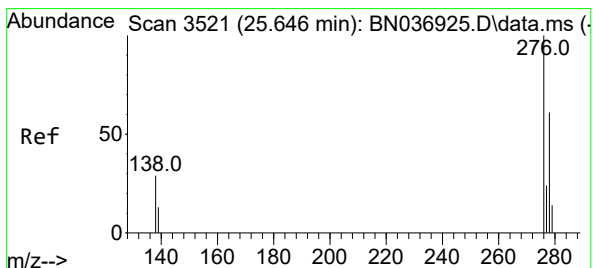
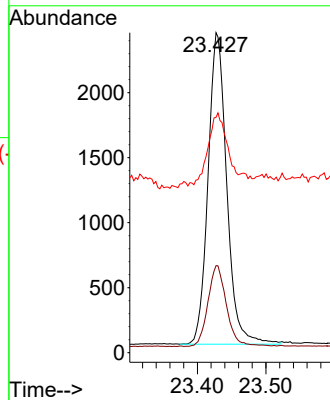
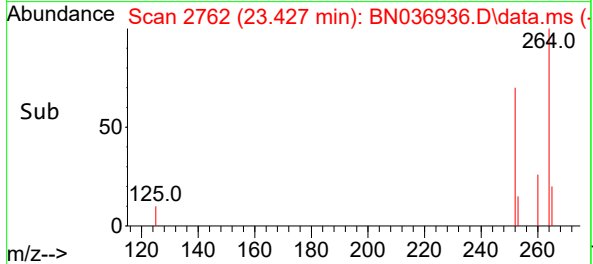


#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.427 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: BN036936.D  
Acq: 29 Apr 2025 13:05

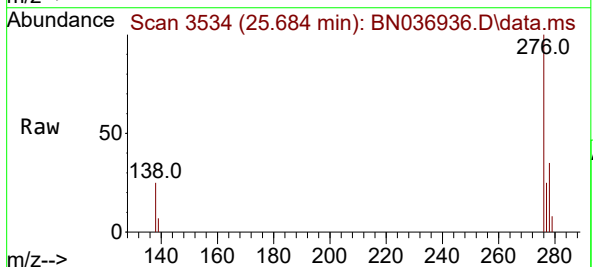
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BNA\_N  
ClientSampleId :  
38072-010925



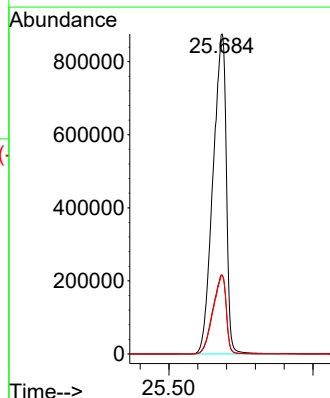
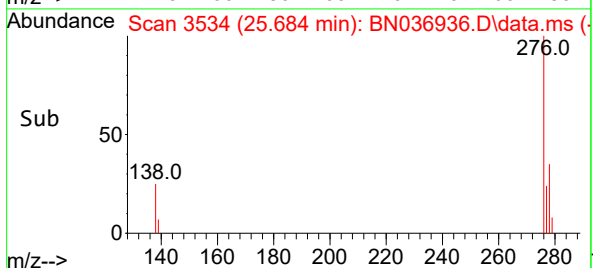
Tgt Ion:264 Resp: 4542  
Ion Ratio Lower Upper  
264 100  
260 27.2 22.2 33.2  
265 73.5 65.8 98.6

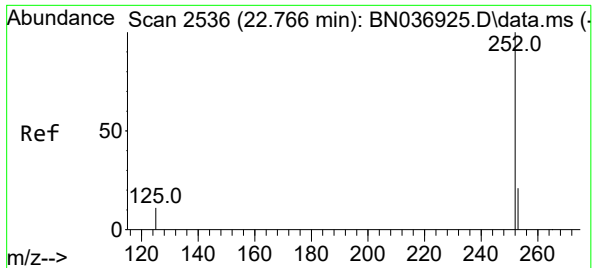


#36  
Indeno(1,2,3-cd)pyrene  
Concen: 151.786 ng  
RT: 25.684 min Scan# 3534  
Delta R.T. 0.038 min  
Lab File: BN036936.D  
Acq: 29 Apr 2025 13:05



Tgt Ion:276 Resp: 2815525  
Ion Ratio Lower Upper  
276 100  
138 24.9 23.0 34.6  
277 24.3 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 138.833 ng

RT: 22.781 min Scan# 2541

Delta R.T. 0.015 min

Lab File: BN036936.D

Acq: 29 Apr 2025 13:05

Instrument :

BNA\_N

ClientSampleId :

38072-010925

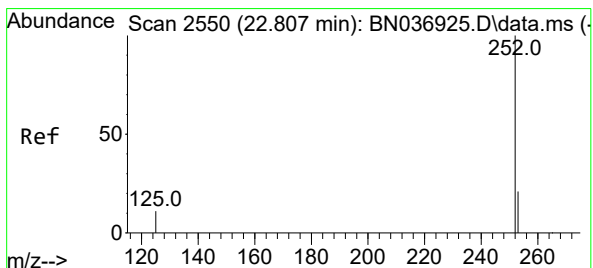
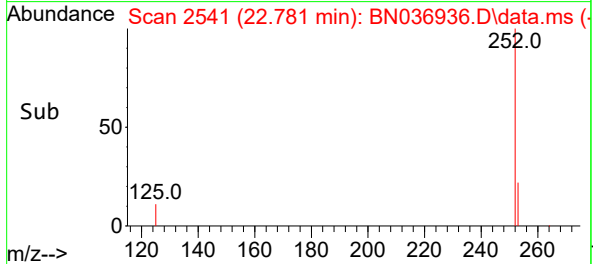
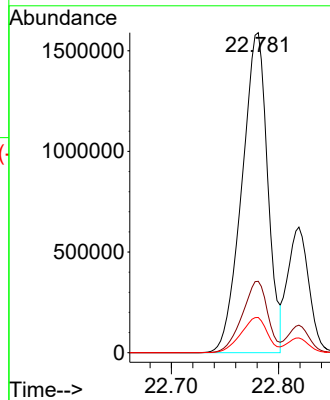
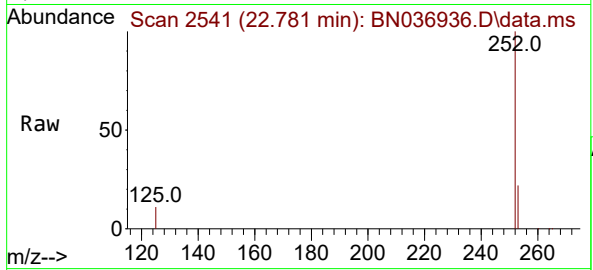
Tgt Ion:252 Resp: 2651471

Ion Ratio Lower Upper

252 100

253 22.3 22.1 33.1

125 11.0 14.2 21.2#



#38

Benzo(k)fluoranthene

Concen: 45.004 ng

RT: 22.819 min Scan# 2554

Delta R.T. 0.012 min

Lab File: BN036936.D

Acq: 29 Apr 2025 13:05

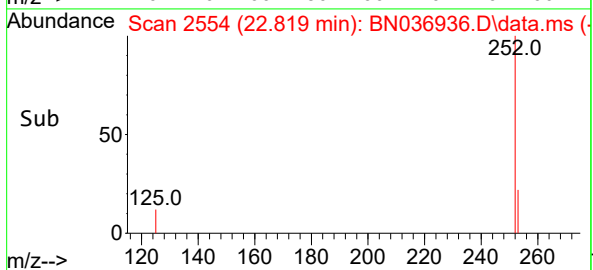
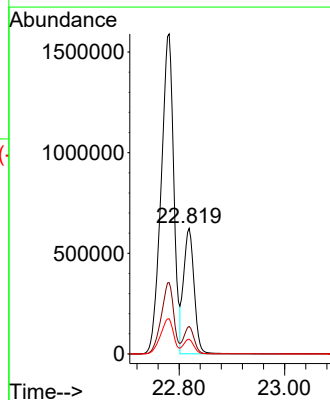
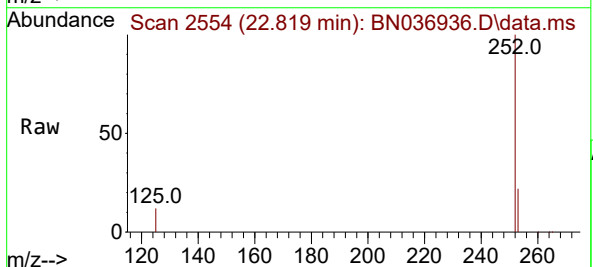
Tgt Ion:252 Resp: 864365

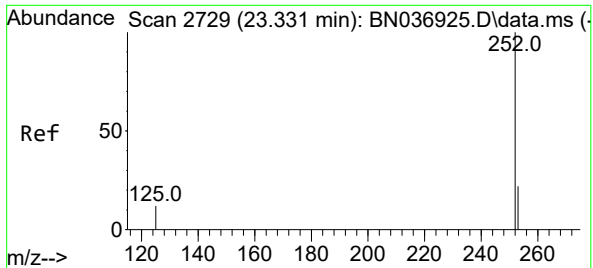
Ion Ratio Lower Upper

252 100

253 21.9 22.8 34.2#

125 11.7 14.2 21.2#





#39

Benzo(a)pyrene

Concen: 89.656 ng

RT: 23.339 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN036936.D

Acq: 29 Apr 2025 13:05

Instrument :

BNA\_N

ClientSampleId :

38072-010925

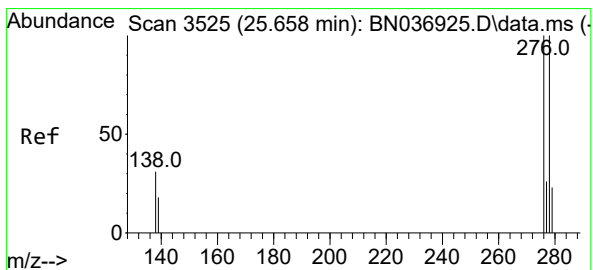
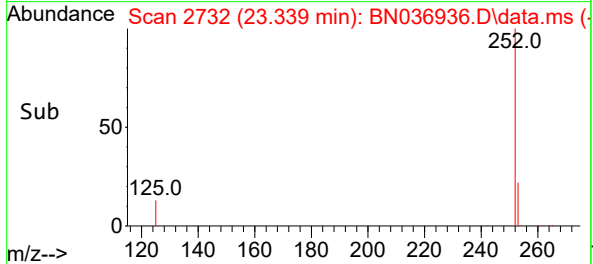
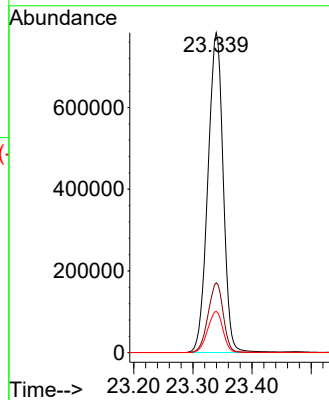
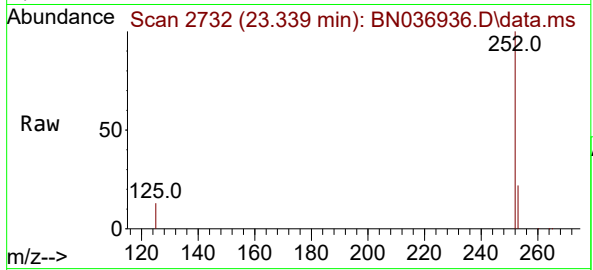
Tgt Ion:252 Resp: 1407542

Ion Ratio Lower Upper

252 100

253 21.9 25.9 38.9#

125 12.9 17.4 26.0#



#40

Dibenzo(a,h)anthracene

Concen: 47.928 ng

RT: 25.684 min Scan# 3534

Delta R.T. 0.026 min

Lab File: BN036936.D

Acq: 29 Apr 2025 13:05

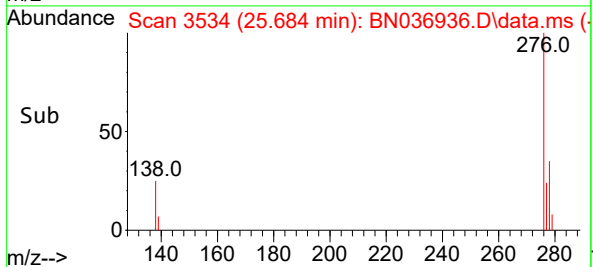
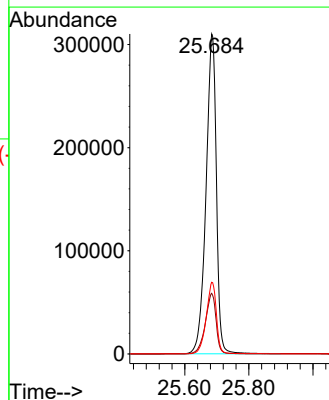
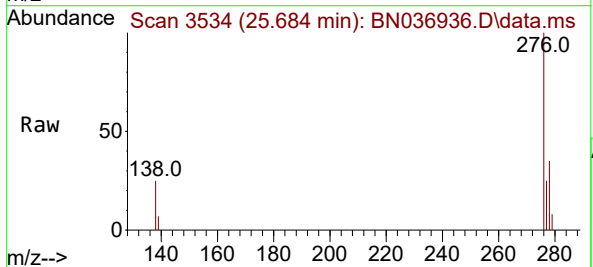
Tgt Ion:278 Resp: 699662

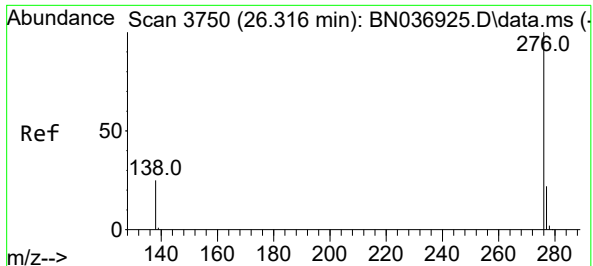
Ion Ratio Lower Upper

278 100

139 19.0 17.4 26.2

279 22.4 24.9 37.3#





#41

Benzo(g,h,i)perylene

Concen: 44.737 ng

RT: 26.336 min Scan# 31

Delta R.T. 0.020 min

Lab File: BN036936.D

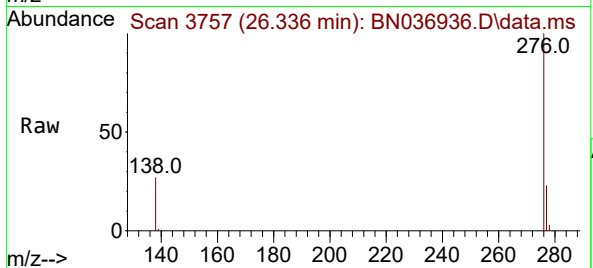
Acq: 29 Apr 2025 13:05

Instrument :

BNA\_N

ClientSampleId :

38072-010925



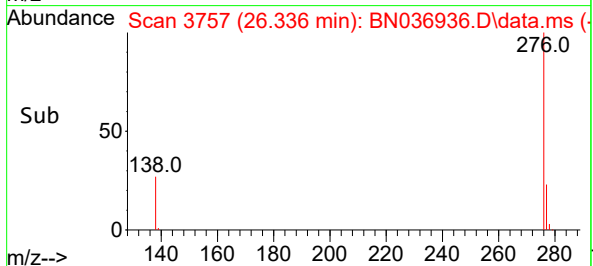
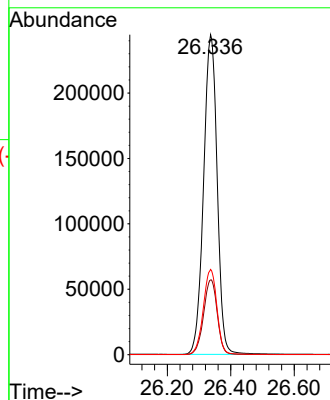
Tgt Ion:276 Resp: 724777

Ion Ratio Lower Upper

276 100

277 23.4 20.2 30.2

138 26.7 21.9 32.9



## Report of Analysis

|                    |                                        |                 |               |
|--------------------|----------------------------------------|-----------------|---------------|
| Client:            | Alliance Technical Group, LLC - Newark | Date Collected: | 04/21/25      |
| Project:           | NJ Waste Water PT                      | Date Received:  | 04/23/25      |
| Client Sample ID:  | 38072-010925DL                         | SDG No.:        | Q1870         |
| Lab Sample ID:     | Q1870-01DL                             | Matrix:         | Water         |
| Analytical Method: | SW8270ESIM                             | % Solid:        | 0             |
| Sample Wt/Vol:     | 1000      Units:    mL                 | Final Vol:      | 1000      uL  |
| Soil Aliquot Vol:  | uL                                     | Test:           | SVOCMS Group5 |
| 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 |
| BN036937.D        | 5         | 04/24/25 12:05 | 04/29/25 13:41 | PB167728      |

| CAS Number                | Parameter               | Conc. | Qualifier | MDL      | LOQ / CRQL | Units    |
|---------------------------|-------------------------|-------|-----------|----------|------------|----------|
| <b>TARGETS</b>            |                         |       |           |          |            |          |
| 208-96-8                  | Acenaphthylene          | 240   | ED        | 0.19     | 0.50       | ug/L     |
| <b>SURROGATES</b>         |                         |       |           |          |            |          |
| 7297-45-2                 | 2-Methylnaphthalene-d10 | 0.42  |           | 20 - 139 | 104%       | SPK: 0.4 |
| 93951-69-0                | Fluoranthene-d10        | 0.44  |           | 30 - 150 | 110%       | SPK: 0.4 |
| 4165-60-0                 | Nitrobenzene-d5         | 0.42  |           | 27 - 154 | 105%       | SPK: 0.4 |
| 321-60-8                  | 2-Fluorobiphenyl        | 0.41  |           | 25 - 149 | 101%       | SPK: 0.4 |
| 1718-51-0                 | Terphenyl-d14           | 0.35  |           | 54 - 175 | 88%        | SPK: 0.4 |
| <b>INTERNAL STANDARDS</b> |                         |       |           |          |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4  | 2660  |           | 7.633    |            |          |
| 1146-65-2                 | Naphthalene-d8          | 7270  |           | 10.404   |            |          |
| 15067-26-2                | Acenaphthene-d10        | 4170  |           | 14.277   |            |          |
| 1517-22-2                 | Phenanthrene-d10        | 8000  |           | 17.021   |            |          |
| 1719-03-5                 | Chrysene-d12            | 7790  |           | 21.216   |            |          |
| 1520-96-3                 | Perylene-d12            | 5960  |           | 23.427   |            |          |

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\BN042925\  
 Data File : BN036937.D  
 Acq On : 29 Apr 2025 13:41  
 Operator : RC/JU  
 Sample : Q1870-01DL 5X  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 38072-010925DL

Quant Time: Apr 29 14:14:18 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN042825.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Apr 28 15:35:03 2025  
 Response via : Initial Calibration

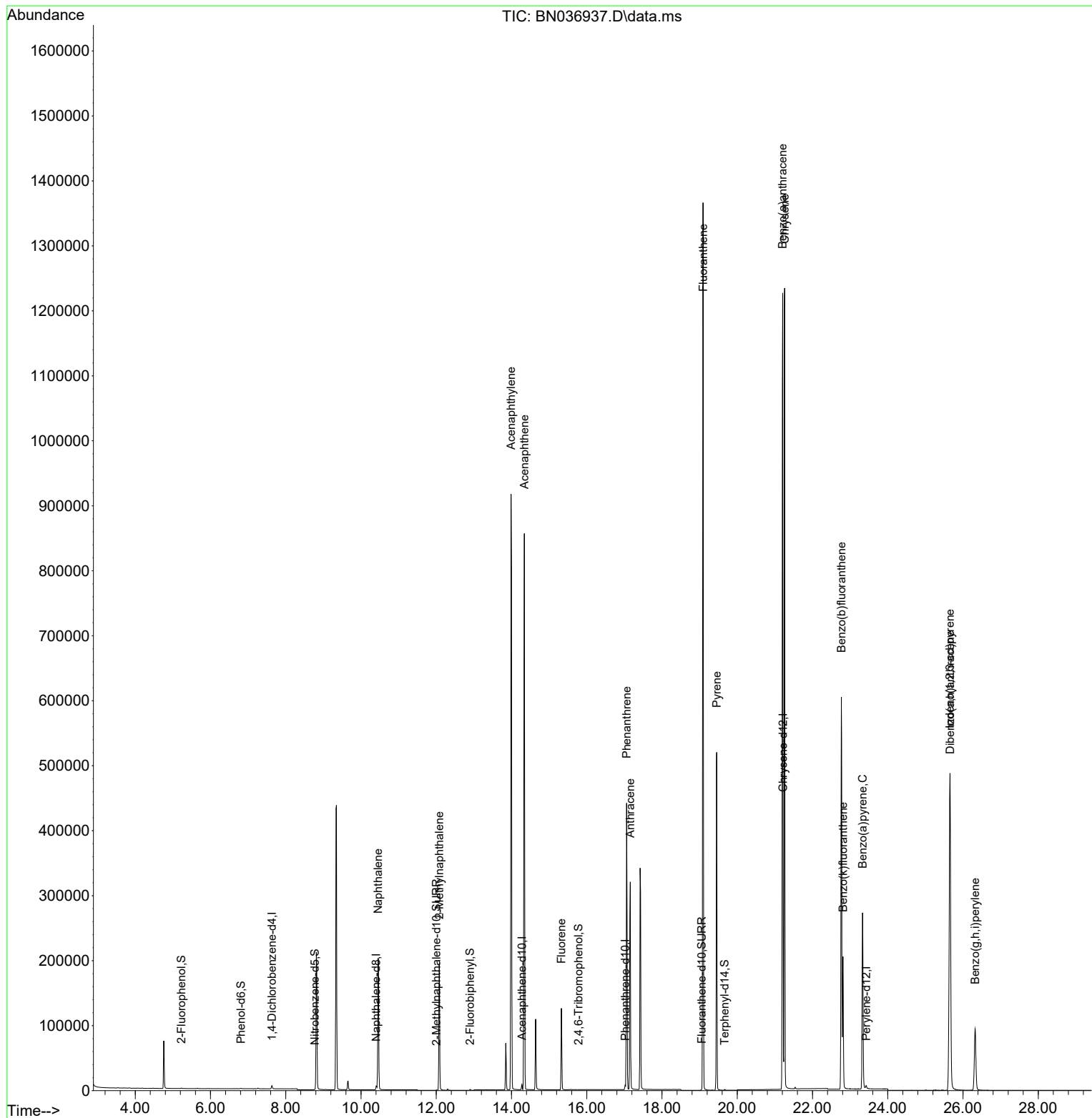
| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| -----                       |        |      |          |        |       |          |
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.633  | 152  | 2660     | 0.400  | ng    | 0.00     |
| 7) Naphthalene-d8           | 10.404 | 136  | 7273     | 0.400  | ng    | #-0.01   |
| 13) Acenaphthene-d10        | 14.277 | 164  | 4170     | 0.400  | ng    | 0.00     |
| 19) Phenanthrene-d10        | 17.021 | 188  | 7996     | 0.400  | ng    | 0.00     |
| 29) Chrysene-d12            | 21.216 | 240  | 7787     | 0.400  | ng    | 0.00     |
| 35) Perylene-d12            | 23.427 | 264  | 5957     | 0.400  | ng    | # 0.00   |
|                             |        |      |          |        |       |          |
| System Monitoring Compounds |        |      |          |        |       |          |
| 4) 2-Fluorophenol           | 5.228  | 112  | 484      | 0.071  | ng    | 0.00     |
| 5) Phenol-d6                | 6.809  | 99   | 596      | 0.071  | ng    | 0.00     |
| 8) Nitrobenzene-d5          | 8.771  | 82   | 638      | 0.084  | ng    | -0.01    |
| 11) 2-Methylnaphthalene-d10 | 12.006 | 152  | 840      | 0.083  | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol    | 15.780 | 330  | 80       | 0.043  | ng    | 0.01     |
| 15) 2-Fluorobiphenyl        | 12.899 | 172  | 1634     | 0.081  | ng    | 0.00     |
| 27) Fluoranthene-d10        | 19.059 | 212  | 1819     | 0.088  | ng    | 0.00     |
| 31) Terphenyl-d14           | 19.667 | 244  | 1294     | 0.070  | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| Target Compounds            |        |      |          |        |       | Qvalue   |
| 9) Naphthalene              | 10.458 | 128  | 245146   | 11.581 | ng    | 97       |
| 12) 2-Methylnaphthalene     | 12.082 | 142  | 135057   | 9.870  | ng    | 97       |
| 16) Acenaphthylene          | 13.989 | 152  | 983461   | 48.255 | ng    | 99       |
| 17) Acenaphthene            | 14.342 | 154  | 392189   | 29.289 | ng    | 97       |
| 18) Fluorene                | 15.325 | 166  | 71886    | 4.105  | ng    | 99       |
| 25) Phenanthrene            | 17.058 | 178  | 419564   | 15.898 | ng    | 100      |
| 26) Anthracene              | 17.158 | 178  | 344832   | 14.445 | ng    | 100      |
| 28) Fluoranthene            | 19.091 | 202  | 1164278  | 39.363 | ng    | 99       |
| 30) Pyrene                  | 19.454 | 202  | 435369   | 11.609 | ng    | 99       |
| 32) Benzo(a)anthracene      | 21.207 | 228  | 1030872  | 35.945 | ng    | 99       |
| 33) Chrysene                | 21.260 | 228  | 1043139  | 33.727 | ng    | 97       |
| 36) Indeno(1,2,3-cd)pyrene  | 25.652 | 276  | 739011   | 30.377 | ng    | 97       |
| 37) Benzo(b)fluoranthene    | 22.766 | 252  | 710014   | 28.346 | ng    | # 88     |
| 38) Benzo(k)fluoranthene    | 22.810 | 252  | 229443   | 9.109  | ng    | # 87     |
| 39) Benzo(a)pyrene          | 23.331 | 252  | 364004   | 17.678 | ng    | # 81     |
| 40) Dibenzo(a,h)anthracene  | 25.661 | 278  | 178329   | 9.314  | ng    | # 90     |
| 41) Benzo(g,h,i)perylene    | 26.322 | 276  | 179719   | 8.458  | ng    | 98       |
| -----                       |        |      |          |        |       |          |

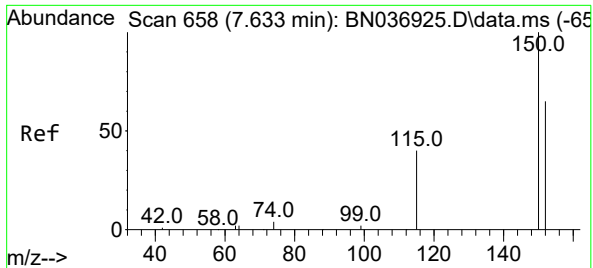
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN042925\  
Data File : BN036937.D  
Acq On : 29 Apr 2025 13:41  
Operator : RC/JU  
Sample : Q1870-01DL 5X  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
38072-010925DL

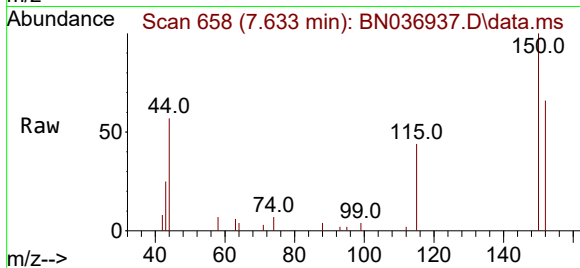
Quant Time: Apr 29 14:14:18 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN042825.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Apr 28 15:35:03 2025  
Response via : Initial Calibration



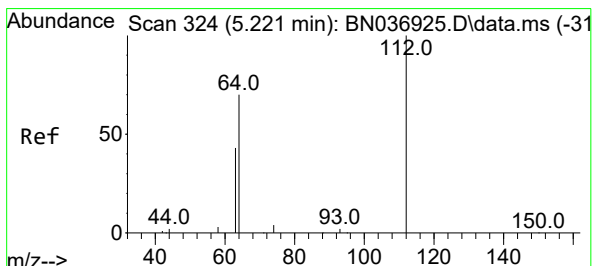
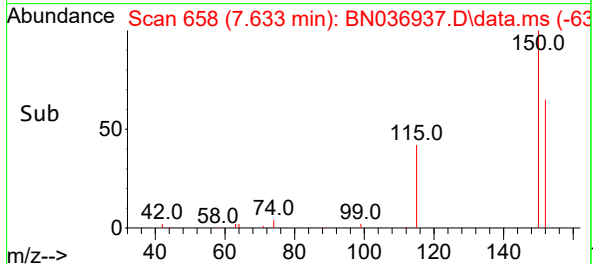
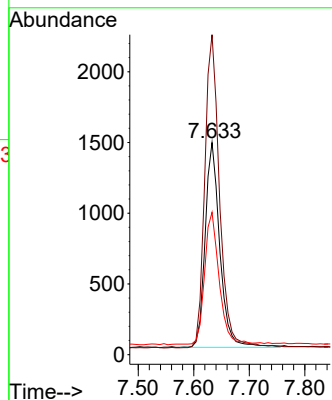


#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.633 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: BN036937.D  
Acq: 29 Apr 2025 13:41

Instrument :  
BNA\_N  
ClientSampleId :  
38072-010925DL

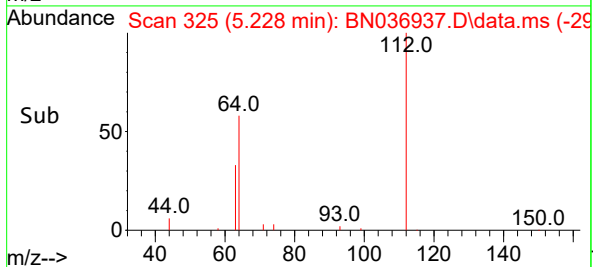
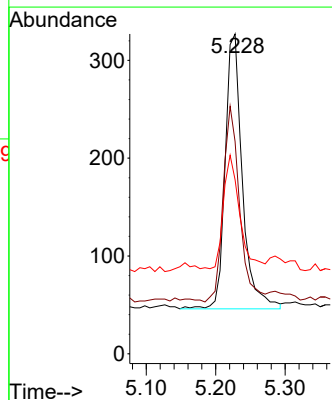
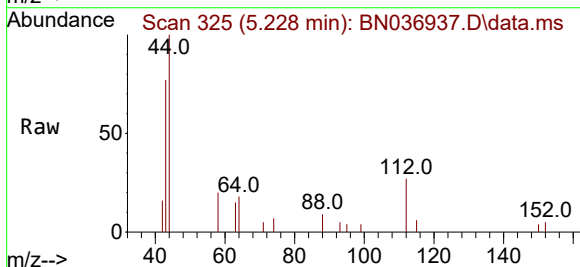


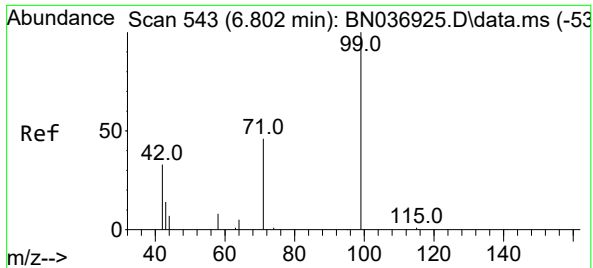
Tgt Ion:152 Resp: 2660  
Ion Ratio Lower Upper  
152 100  
150 150.8 121.1 181.7  
115 67.1 51.8 77.6



#4  
2-Fluorophenol  
Concen: 0.071 ng  
RT: 5.228 min Scan# 325  
Delta R.T. 0.007 min  
Lab File: BN036937.D  
Acq: 29 Apr 2025 13:41

Tgt Ion:112 Resp: 484  
Ion Ratio Lower Upper  
112 100  
64 68.4 55.7 83.5  
63 42.4 33.9 50.9

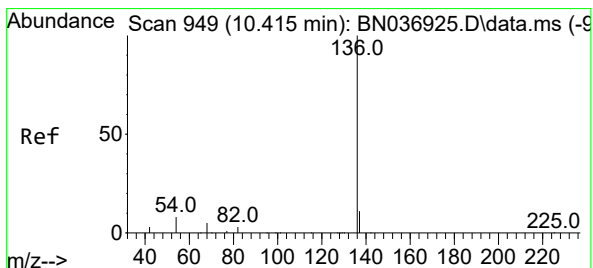
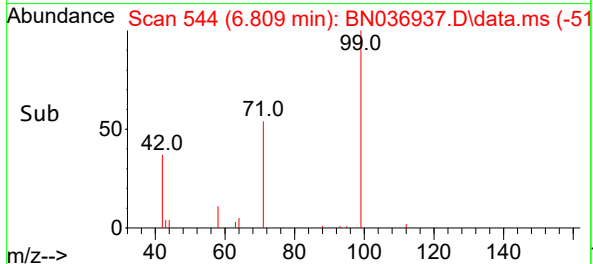
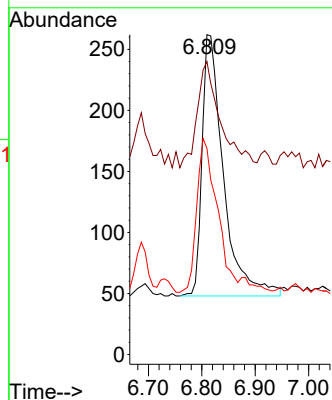
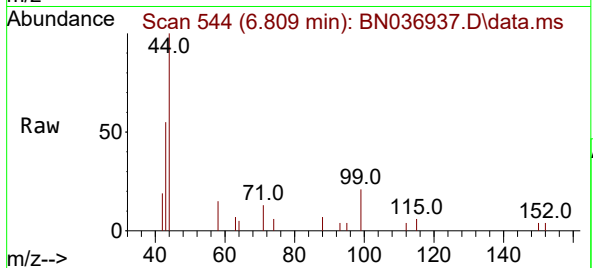




#5  
Phenol-d6  
Concen: 0.071 ng  
RT: 6.809 min Scan# 54  
Delta R.T. 0.007 min  
Lab File: BN036937.D  
Acq: 29 Apr 2025 13:41

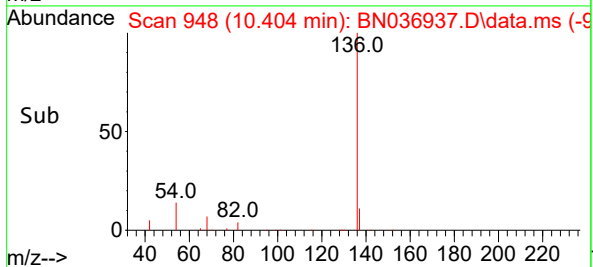
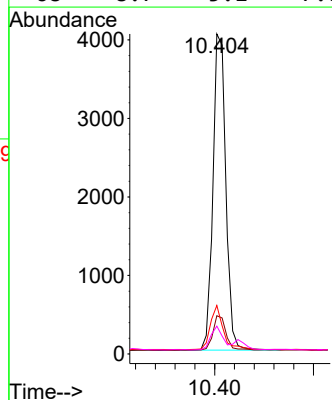
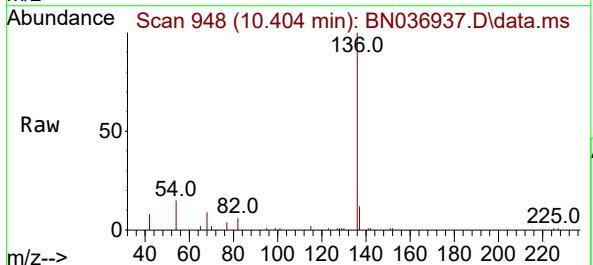
Instrument :  
BNA\_N  
ClientSampleId :  
38072-010925DL

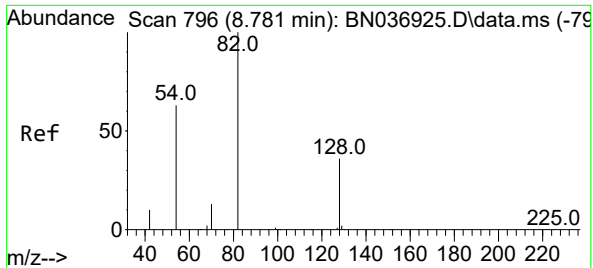
Tgt Ion: 99 Resp: 596  
Ion Ratio Lower Upper  
99 100  
42 44.6 29.6 44.4#  
71 56.0 36.0 54.0#



#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.404 min Scan# 948  
Delta R.T. -0.011 min  
Lab File: BN036937.D  
Acq: 29 Apr 2025 13:41

Tgt Ion: 136 Resp: 7273  
Ion Ratio Lower Upper  
136 100  
137 11.9 9.7 14.5  
54 15.1 8.0 12.0#  
68 8.7 5.1 7.7#

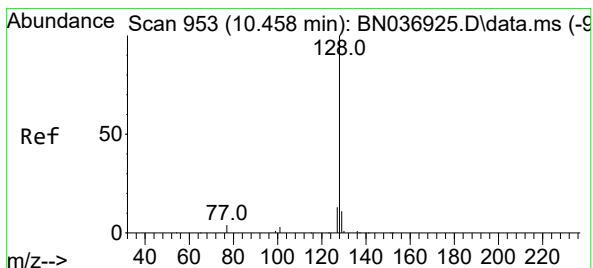
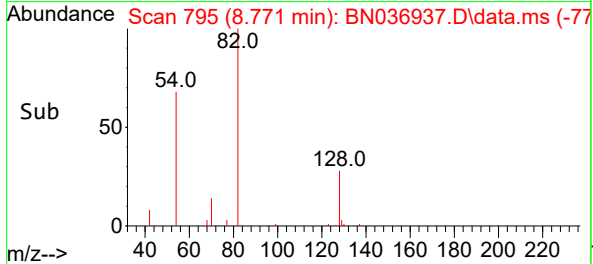
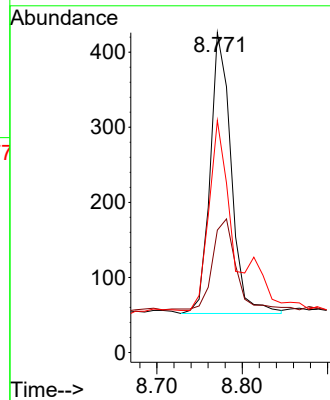
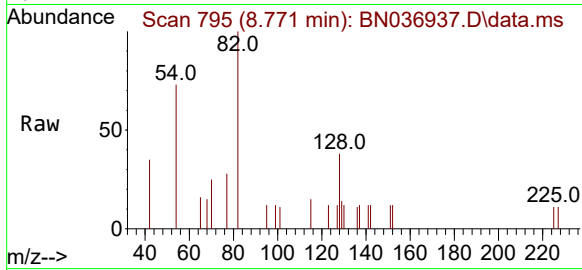




#8  
Nitrobenzene-d5  
Concen: 0.084 ng  
RT: 8.771 min Scan# 796  
Delta R.T. -0.011 min  
Lab File: BN036937.D  
Acq: 29 Apr 2025 13:41

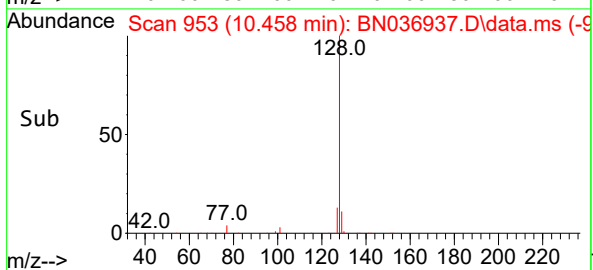
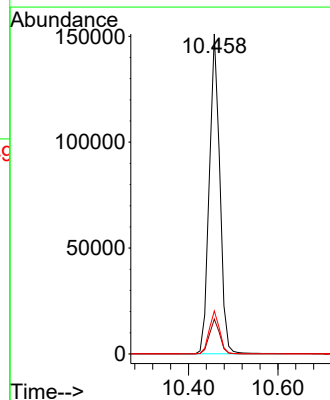
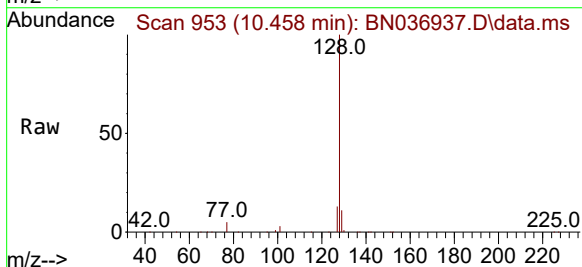
Instrument :  
BNA\_N  
ClientSampleId :  
38072-010925DL

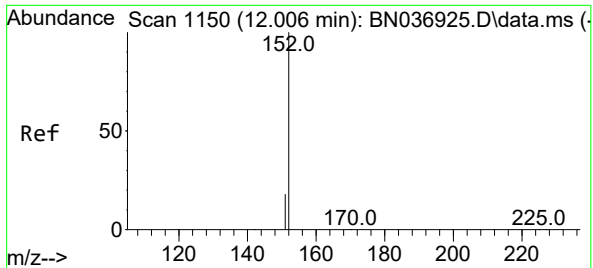
Tgt Ion: 82 Resp: 638  
Ion Ratio Lower Upper  
82 100  
128 38.3 30.7 46.1  
54 72.5 52.1 78.1



#9  
Naphthalene  
Concen: 11.581 ng  
RT: 10.458 min Scan# 953  
Delta R.T. 0.000 min  
Lab File: BN036937.D  
Acq: 29 Apr 2025 13:41

Tgt Ion: 128 Resp: 245146  
Ion Ratio Lower Upper  
128 100  
129 10.9 9.8 14.6  
127 13.5 11.4 17.2

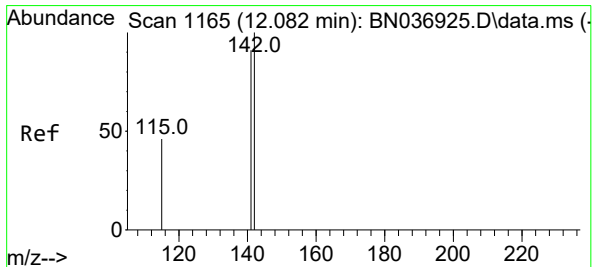
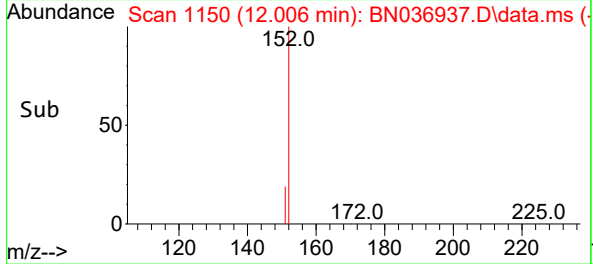
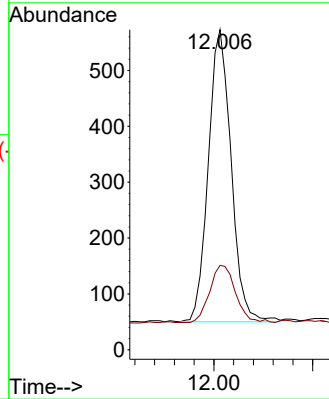
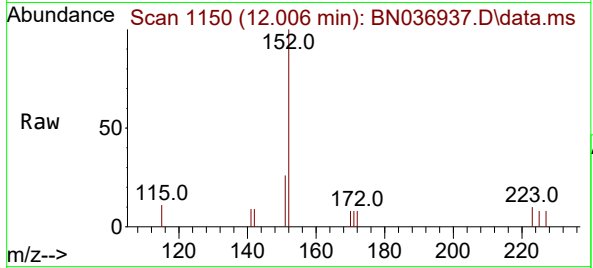




#11  
2-Methylnaphthalene-d10  
Concen: 0.083 ng  
RT: 12.006 min Scan# 1150  
Delta R.T. 0.000 min  
Lab File: BN036937.D  
Acq: 29 Apr 2025 13:41

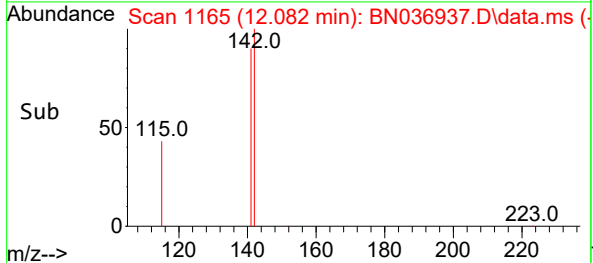
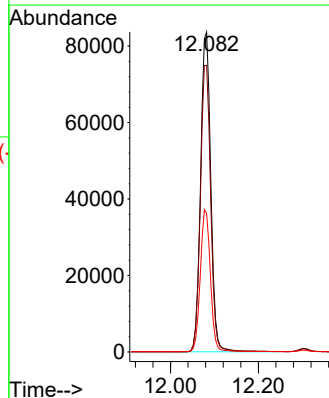
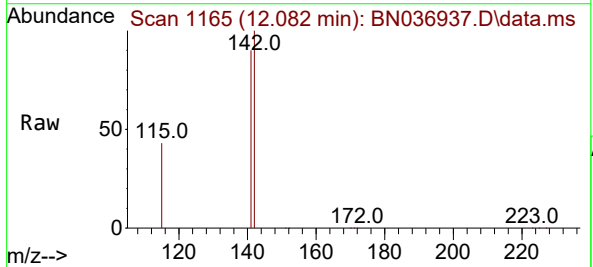
Instrument :  
BNA\_N  
ClientSampleId :  
38072-010925DL

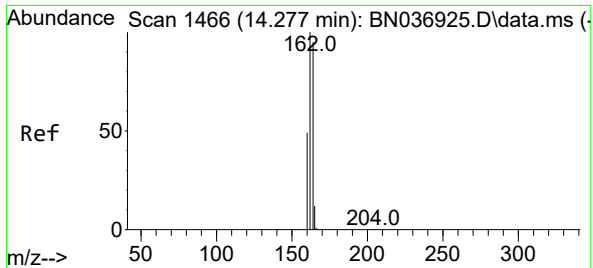
Tgt Ion:152 Resp: 840  
Ion Ratio Lower Upper  
152 100  
151 21.9 16.9 25.3



#12  
2-Methylnaphthalene  
Concen: 9.870 ng  
RT: 12.082 min Scan# 1165  
Delta R.T. 0.000 min  
Lab File: BN036937.D  
Acq: 29 Apr 2025 13:41

Tgt Ion:142 Resp: 135057  
Ion Ratio Lower Upper  
142 100  
141 89.5 72.8 109.2  
115 43.3 38.2 57.4





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.277 min Scan# 1466

Delta R.T. 0.000 min

Lab File: BN036937.D

Acq: 29 Apr 2025 13:41

Instrument :

BNA\_N

ClientSampleId :

38072-010925DL

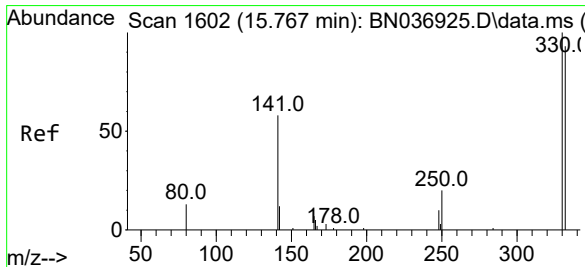
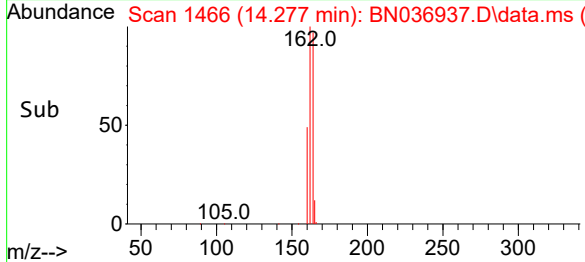
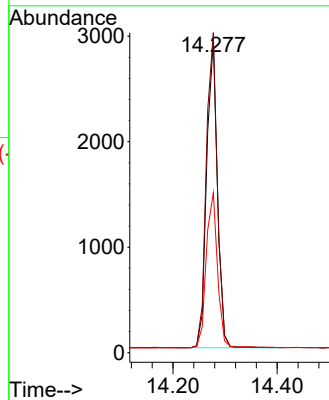
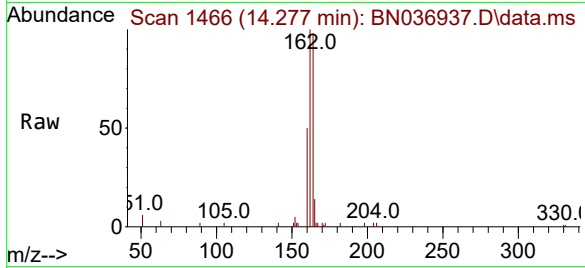
Tgt Ion:164 Resp: 4170

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

|     |     |  |  |
|-----|-----|--|--|
| 164 | 100 |  |  |
|-----|-----|--|--|

|     |       |      |       |
|-----|-------|------|-------|
| 162 | 102.5 | 83.8 | 125.8 |
|-----|-------|------|-------|

|     |      |      |      |
|-----|------|------|------|
| 160 | 51.2 | 42.0 | 63.0 |
|-----|------|------|------|



#14

2,4,6-Tribromophenol

Concen: 0.043 ng

RT: 15.780 min Scan# 1603

Delta R.T. 0.012 min

Lab File: BN036937.D

Acq: 29 Apr 2025 13:41

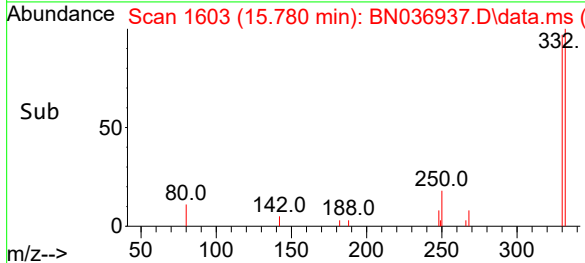
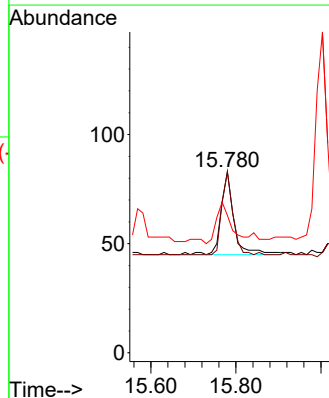
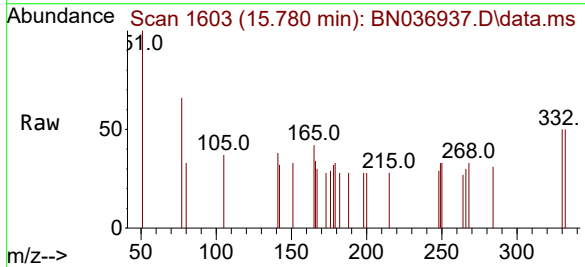
Tgt Ion:330 Resp: 80

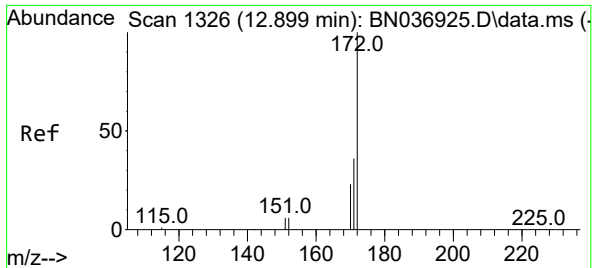
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
|-----|-------|-------|-------|

|     |     |  |  |
|-----|-----|--|--|
| 330 | 100 |  |  |
|-----|-----|--|--|

|     |      |      |       |
|-----|------|------|-------|
| 332 | 86.3 | 76.3 | 114.5 |
|-----|------|------|-------|

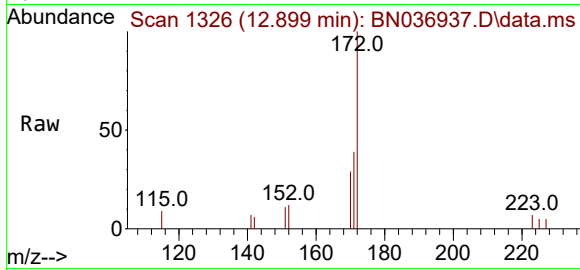
|     |      |      |      |
|-----|------|------|------|
| 141 | 55.0 | 45.4 | 68.2 |
|-----|------|------|------|



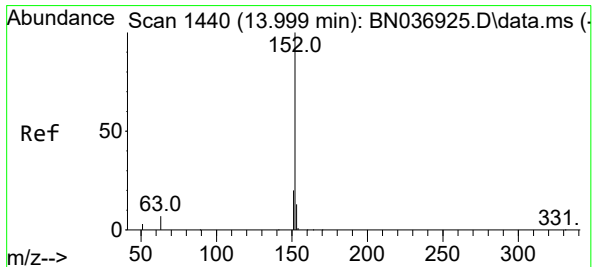
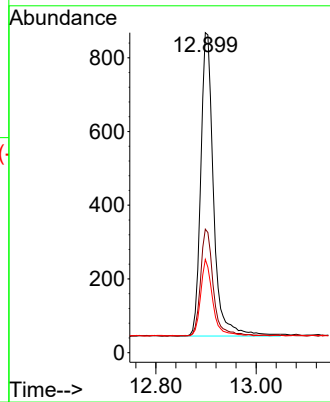
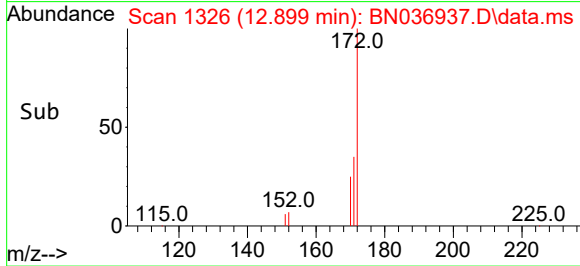


#15  
2-Fluorobiphenyl  
Concen: 0.081 ng  
RT: 12.899 min Scan# 1439  
Delta R.T. 0.000 min  
Lab File: BN036937.D  
Acq: 29 Apr 2025 13:41

Instrument :  
BNA\_N  
ClientSampleId :  
38072-010925DL

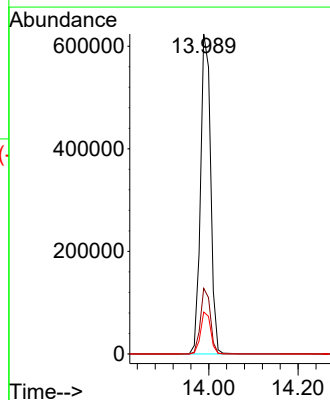
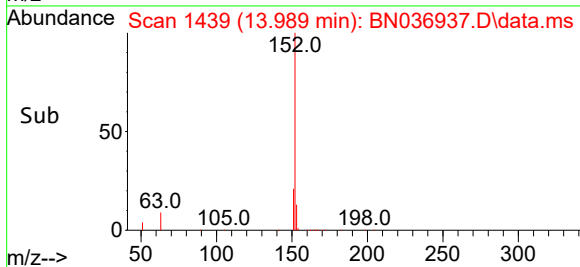
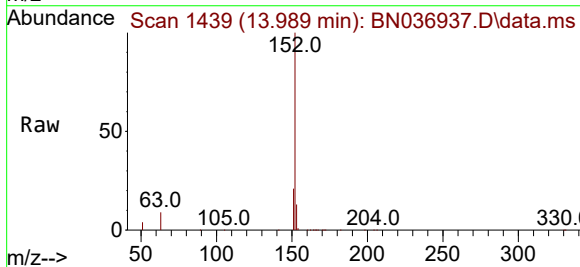


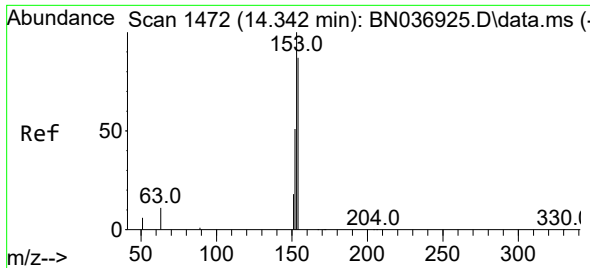
Tgt Ion:172 Resp: 1634  
Ion Ratio Lower Upper  
172 100  
171 38.6 29.4 44.0  
170 29.1 19.4 29.0#



#16  
Acenaphthylene  
Concen: 48.255 ng  
RT: 13.989 min Scan# 1439  
Delta R.T. -0.011 min  
Lab File: BN036937.D  
Acq: 29 Apr 2025 13:41

Tgt Ion:152 Resp: 983461  
Ion Ratio Lower Upper  
152 100  
151 20.2 16.0 24.0  
153 13.1 10.2 15.2

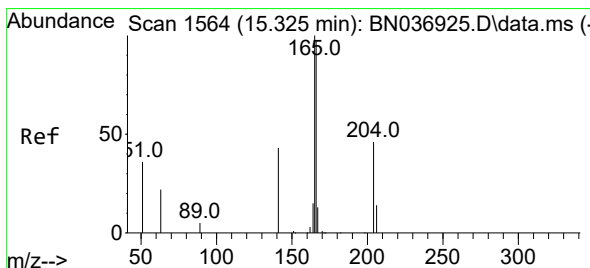
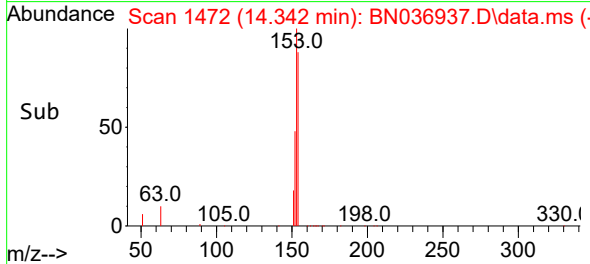
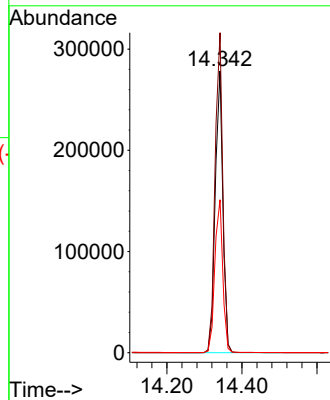
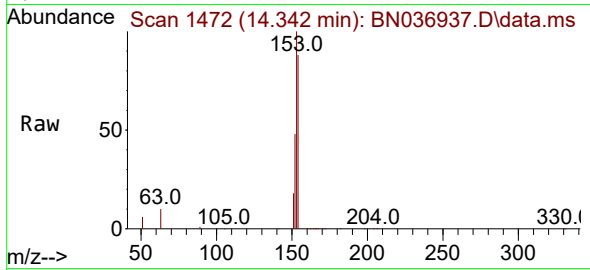




#17  
Acenaphthene  
Concen: 29.289 ng  
RT: 14.342 min Scan# 1472  
Delta R.T. 0.000 min  
Lab File: BN036937.D  
Acq: 29 Apr 2025 13:41

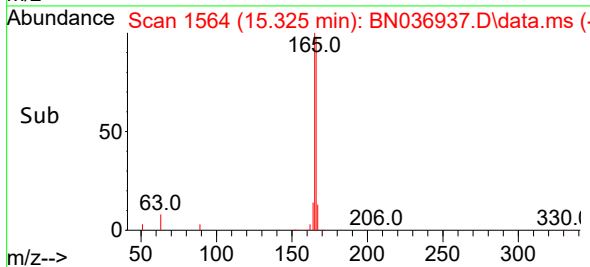
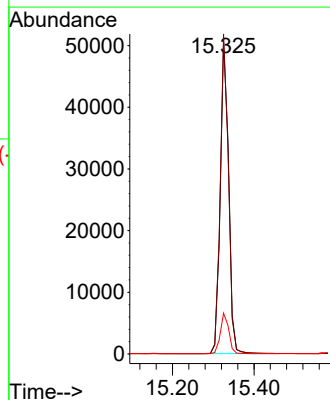
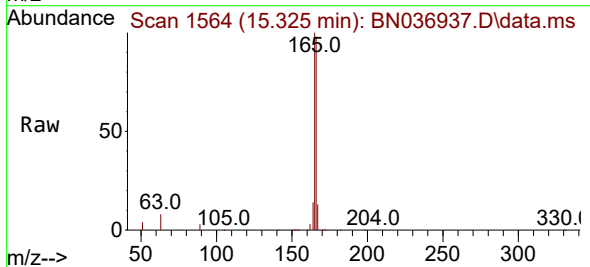
Instrument :  
BNA\_N  
ClientSampleId :  
38072-010925DL

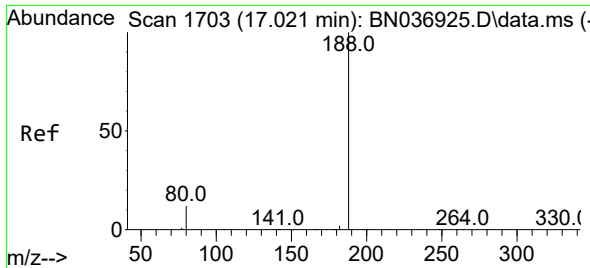
Tgt Ion:154 Resp: 392189  
Ion Ratio Lower Upper  
154 100  
153 115.3 93.4 140.2  
152 56.6 49.5 74.3



#18  
Fluorene  
Concen: 4.105 ng  
RT: 15.325 min Scan# 1564  
Delta R.T. 0.000 min  
Lab File: BN036937.D  
Acq: 29 Apr 2025 13:41

Tgt Ion:166 Resp: 71886  
Ion Ratio Lower Upper  
166 100  
165 100.5 80.8 121.2  
167 13.1 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.021 min Scan# 11

Delta R.T. 0.000 min

Lab File: BN036937.D

Acq: 29 Apr 2025 13:41

Instrument :

BNA\_N

ClientSampleId :

38072-010925DL

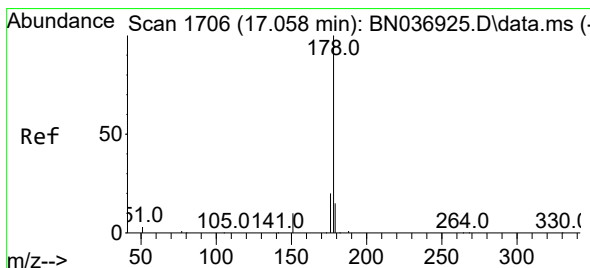
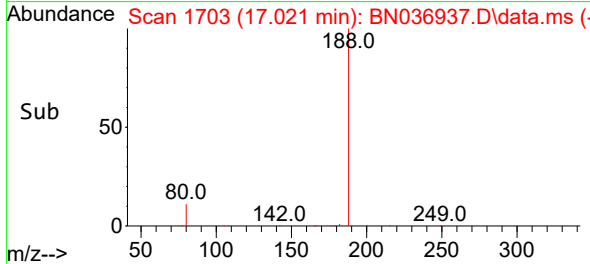
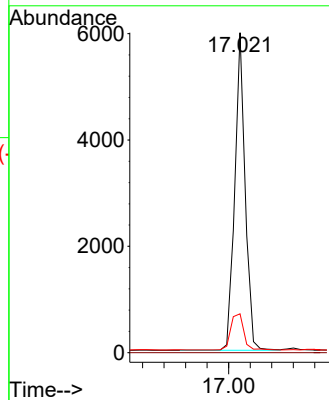
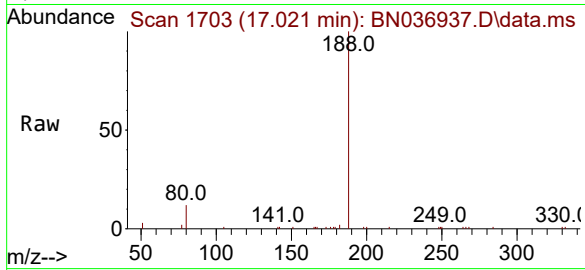
Tgt Ion:188 Resp: 7996

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 12.2 10.7 16.1



#25

Phenanthrene

Concen: 15.898 ng

RT: 17.058 min Scan# 1706

Delta R.T. 0.000 min

Lab File: BN036937.D

Acq: 29 Apr 2025 13:41

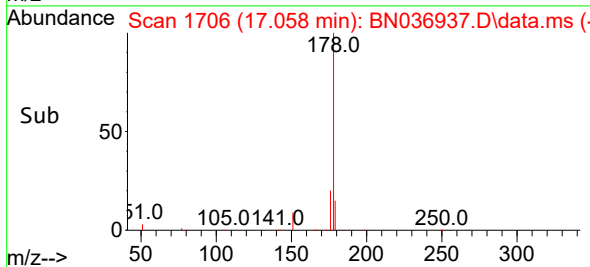
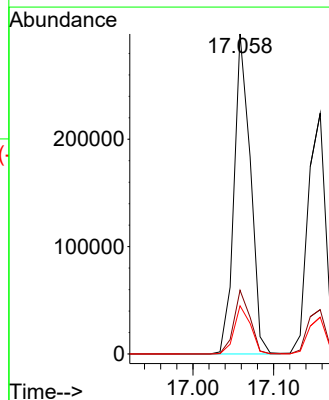
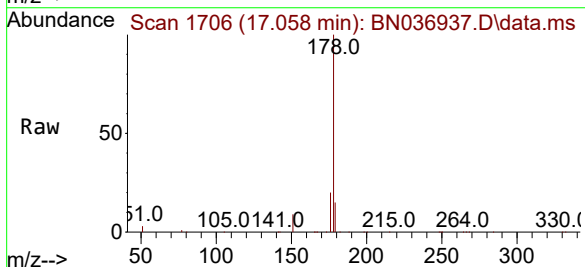
Tgt Ion:178 Resp: 419564

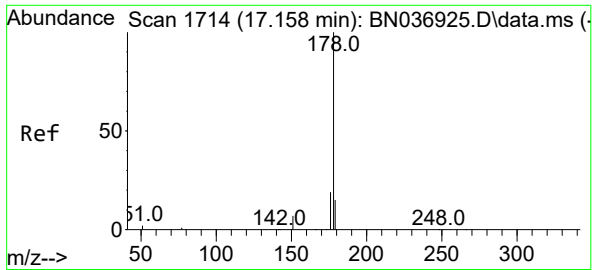
Ion Ratio Lower Upper

178 100

176 19.6 15.7 23.5

179 15.2 12.4 18.6

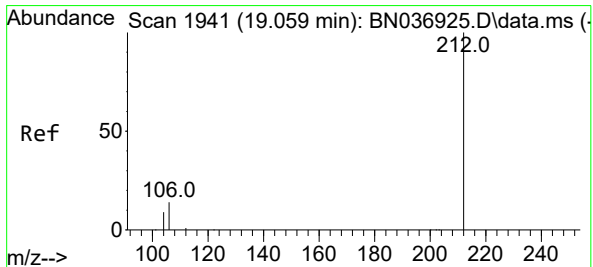
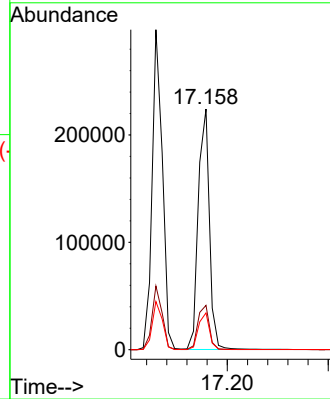
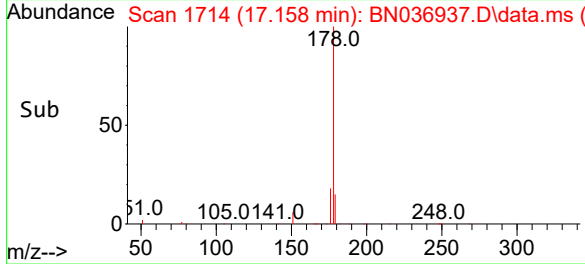
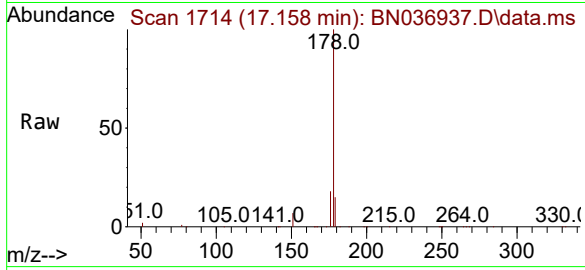




#26  
Anthracene  
Concen: 14.445 ng  
RT: 17.158 min Scan# 1714  
Delta R.T. 0.000 min  
Lab File: BN036937.D  
Acq: 29 Apr 2025 13:41

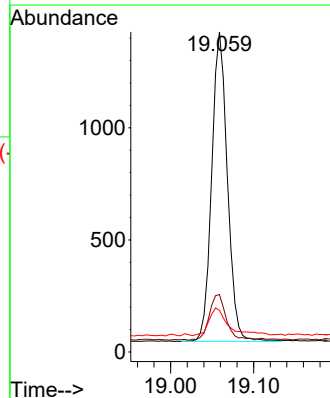
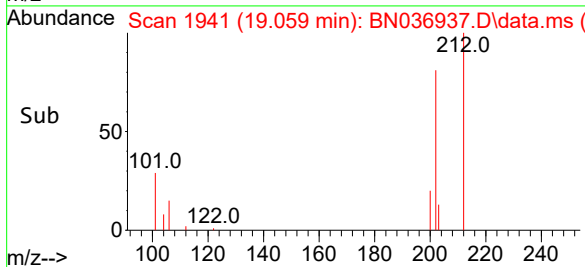
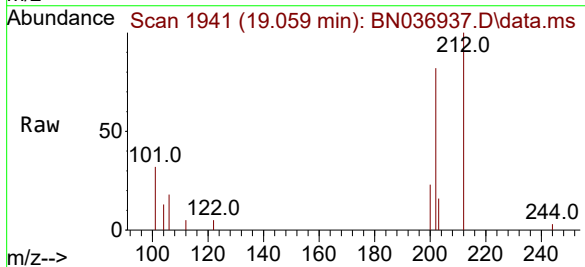
Instrument :  
BNA\_N  
ClientSampleId :  
38072-010925DL

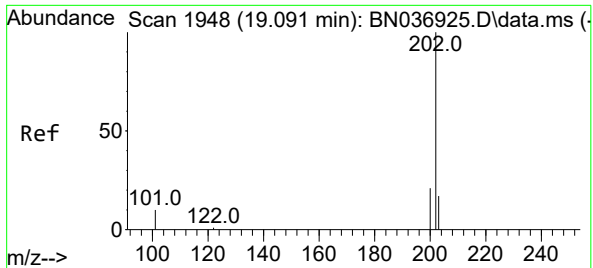
Tgt Ion:178 Resp: 344832  
Ion Ratio Lower Upper  
178 100  
176 19.0 15.3 22.9  
179 15.1 12.1 18.1



#27  
Fluoranthene-d10  
Concen: 0.088 ng  
RT: 19.059 min Scan# 1941  
Delta R.T. 0.000 min  
Lab File: BN036937.D  
Acq: 29 Apr 2025 13:41

Tgt Ion:212 Resp: 1819  
Ion Ratio Lower Upper  
212 100  
106 15.9 11.6 17.4  
104 11.4 7.0 10.4#

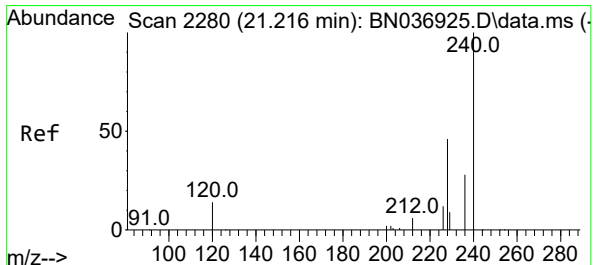
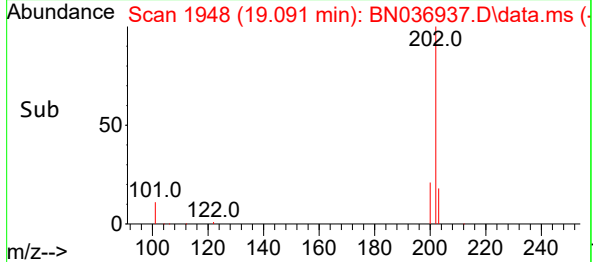
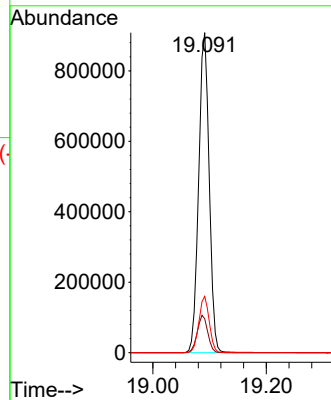
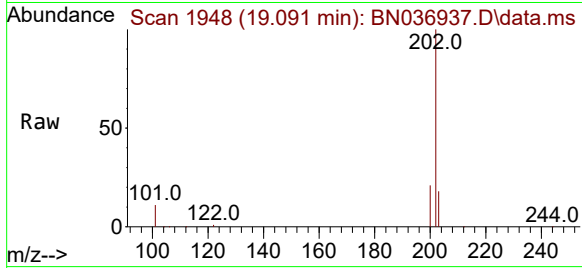




#28  
Fluoranthene  
Concen: 39.363 ng  
RT: 19.091 min Scan# 1948  
Delta R.T. 0.000 min  
Lab File: BN036937.D  
Acq: 29 Apr 2025 13:41

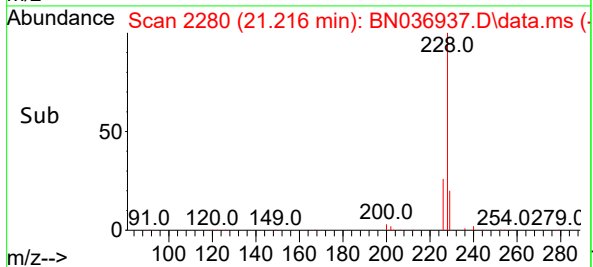
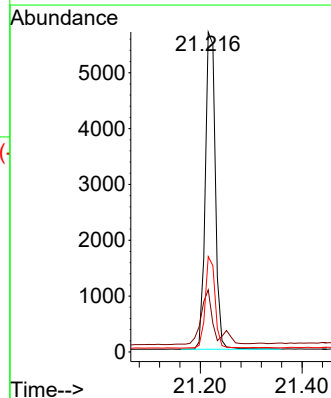
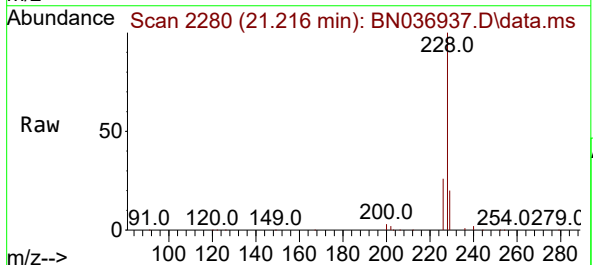
Instrument :  
BNA\_N  
ClientSampleId :  
38072-010925DL

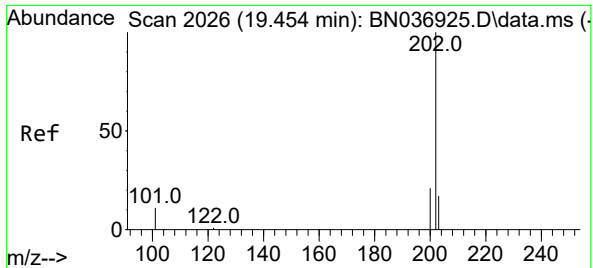
Tgt Ion:202 Resp: 1164278  
Ion Ratio Lower Upper  
202 100  
101 11.6 8.5 12.7  
203 17.4 13.7 20.5



#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.216 min Scan# 2280  
Delta R.T. 0.000 min  
Lab File: BN036937.D  
Acq: 29 Apr 2025 13:41

Tgt Ion:240 Resp: 7787  
Ion Ratio Lower Upper  
240 100  
120 19.4 14.1 21.1  
236 29.8 23.8 35.8

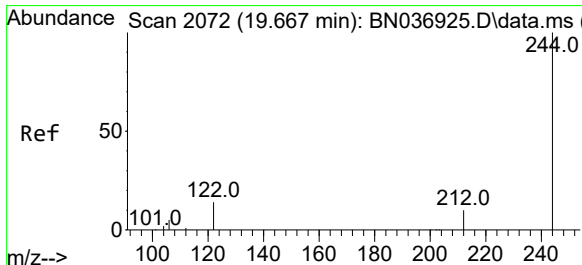
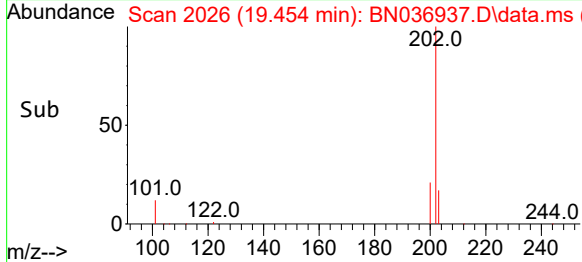
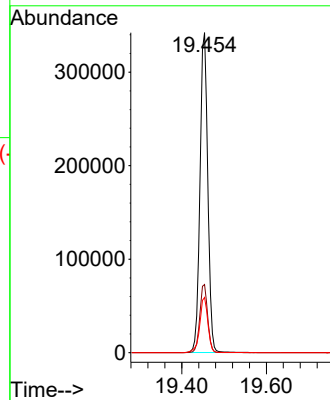
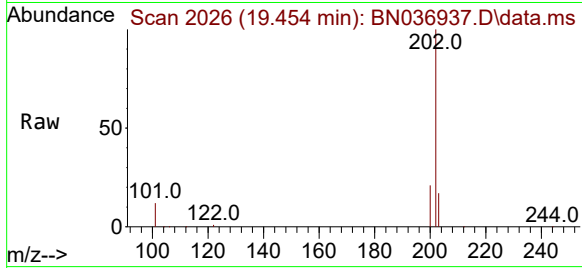




#30  
Pyrene  
Concen: 11.609 ng  
RT: 19.454 min Scan# 2026  
Delta R.T. 0.000 min  
Lab File: BN036937.D  
Acq: 29 Apr 2025 13:41

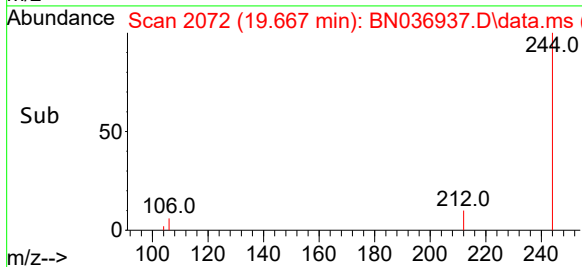
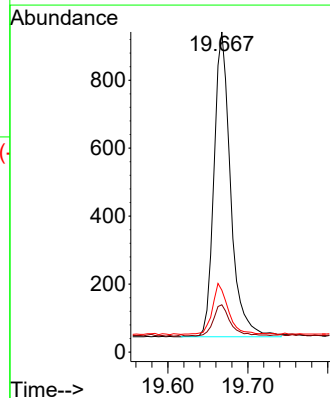
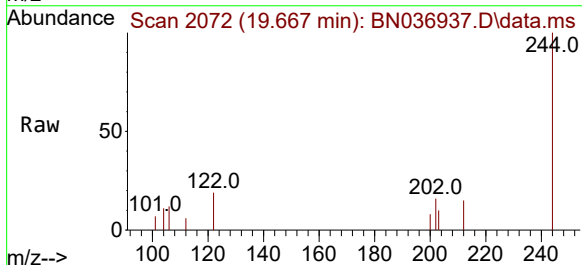
Instrument :  
BNA\_N  
ClientSampleId :  
38072-010925DL

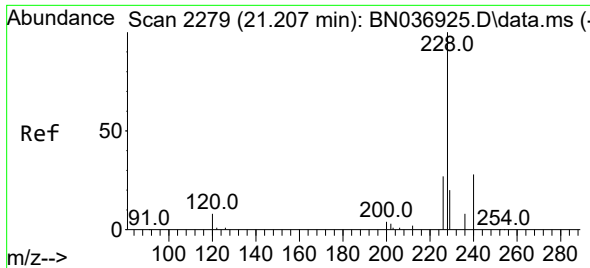
Tgt Ion:202 Resp: 435369  
Ion Ratio Lower Upper  
202 100  
200 21.5 17.0 25.6  
203 18.1 14.0 21.0



#31  
Terphenyl-d14  
Concen: 0.070 ng  
RT: 19.667 min Scan# 2072  
Delta R.T. 0.000 min  
Lab File: BN036937.D  
Acq: 29 Apr 2025 13:41

Tgt Ion:244 Resp: 1294  
Ion Ratio Lower Upper  
244 100  
212 14.8 9.6 14.4#  
122 19.3 12.7 19.1#

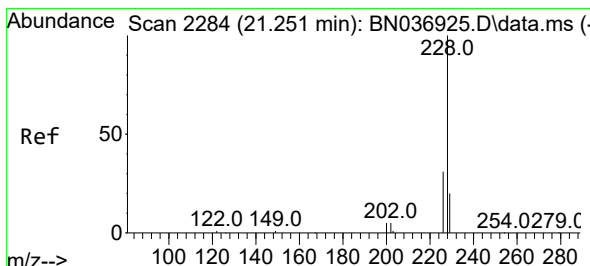
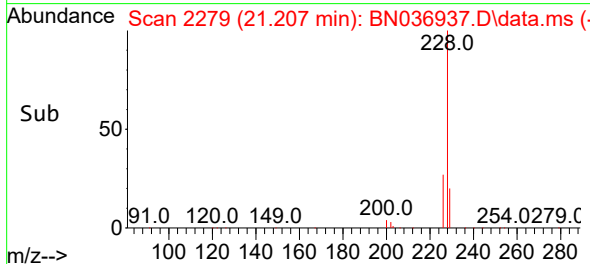
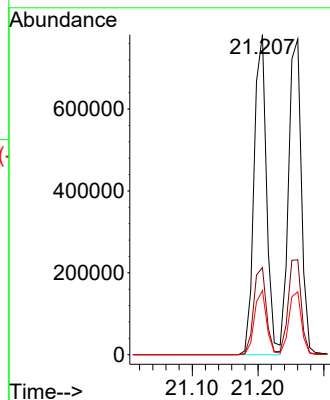
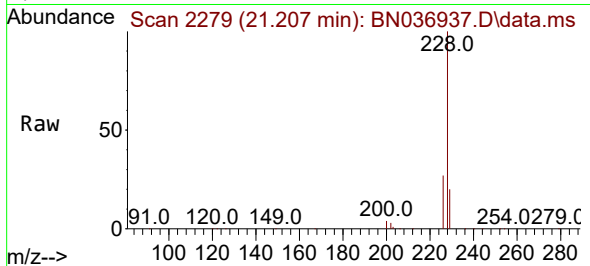




#32  
Benzo(a)anthracene  
Concen: 35.945 ng  
RT: 21.207 min Scan# 2128  
Delta R.T. 0.000 min  
Lab File: BN036937.D  
Acq: 29 Apr 2025 13:41

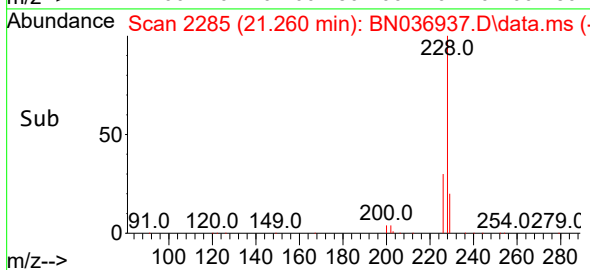
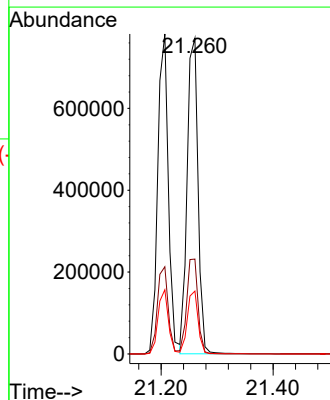
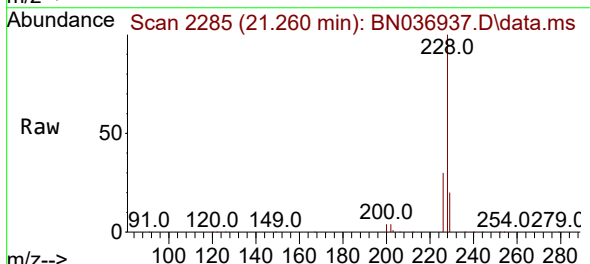
Instrument :  
BNA\_N  
ClientSampleId :  
38072-010925DL

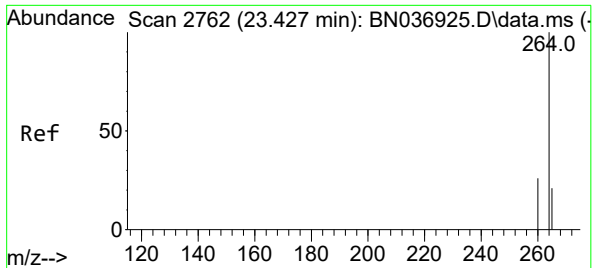
Tgt Ion:228 Resp: 1030872  
Ion Ratio Lower Upper  
228 100  
226 27.3 22.2 33.4  
229 20.0 16.4 24.6



#33  
Chrysene  
Concen: 33.727 ng  
RT: 21.260 min Scan# 2285  
Delta R.T. 0.009 min  
Lab File: BN036937.D  
Acq: 29 Apr 2025 13:41

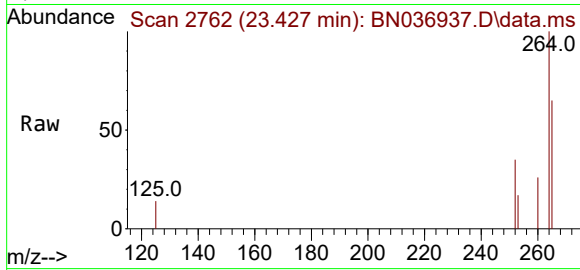
Tgt Ion:228 Resp: 1043139  
Ion Ratio Lower Upper  
228 100  
226 30.1 25.5 38.3  
229 19.9 16.5 24.7



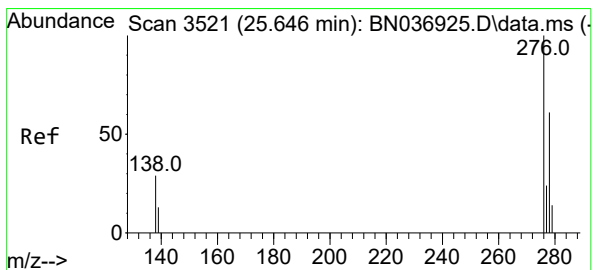
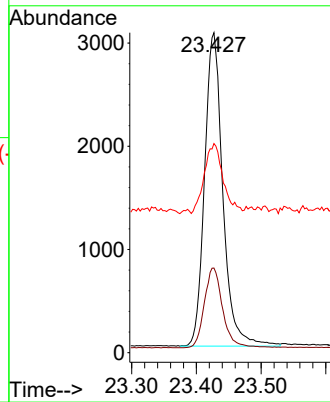
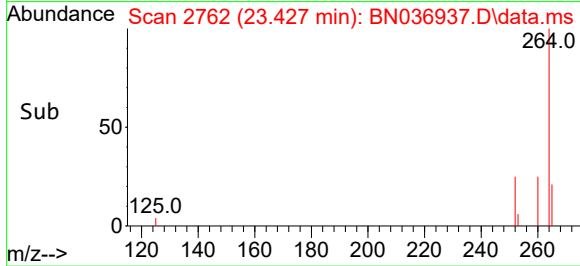


#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.427 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: BN036937.D  
Acq: 29 Apr 2025 13:41

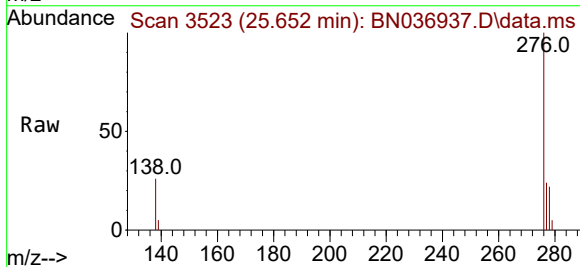
Instrument :  
BNA\_N  
ClientSampleId :  
38072-010925DL



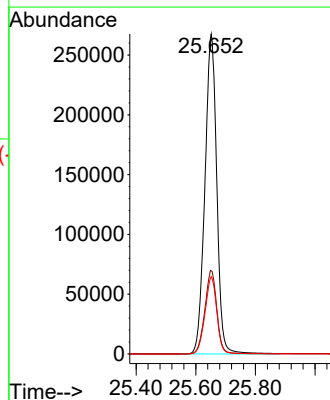
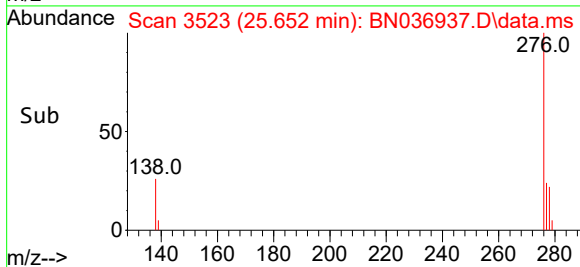
Tgt Ion:264 Resp: 5957  
Ion Ratio Lower Upper  
264 100  
260 26.5 22.2 33.2  
265 65.4 65.8 98.6#

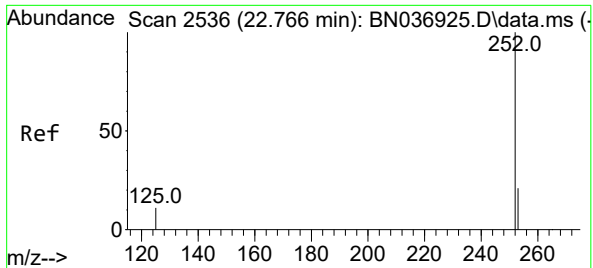


#36  
Indeno(1,2,3-cd)pyrene  
Concen: 30.377 ng  
RT: 25.652 min Scan# 3523  
Delta R.T. 0.006 min  
Lab File: BN036937.D  
Acq: 29 Apr 2025 13:41



Tgt Ion:276 Resp: 739011  
Ion Ratio Lower Upper  
276 100  
138 26.4 23.0 34.6  
277 24.0 20.0 30.0

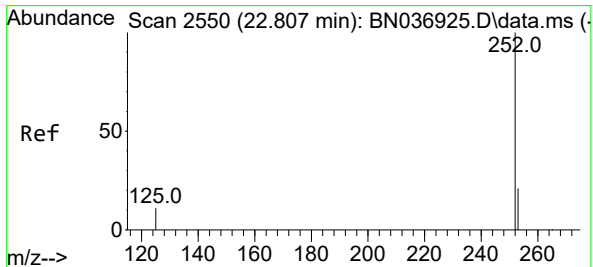
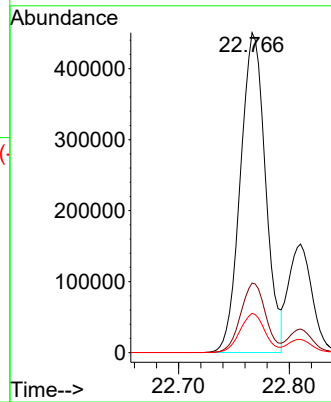
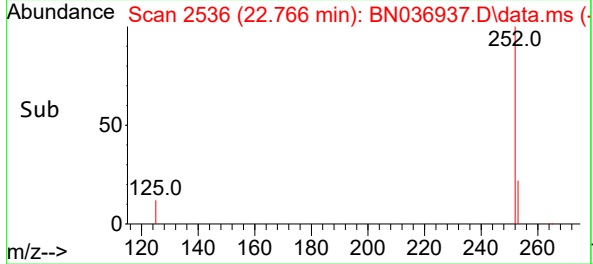
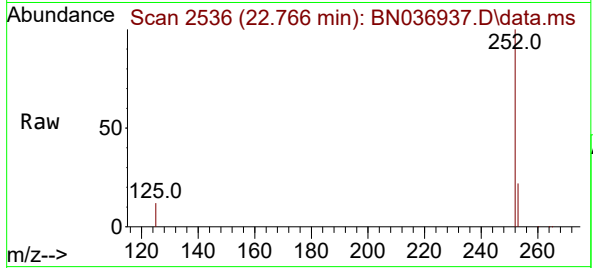




#37  
Benzo(b)fluoranthene  
Concen: 28.346 ng  
RT: 22.766 min Scan# 2536  
Delta R.T. 0.000 min  
Lab File: BN036937.D  
Acq: 29 Apr 2025 13:41

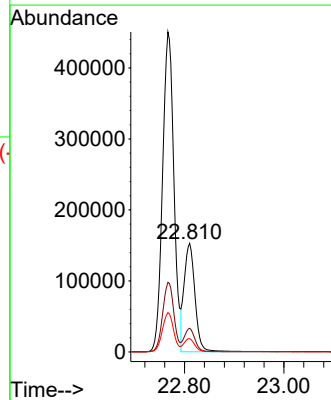
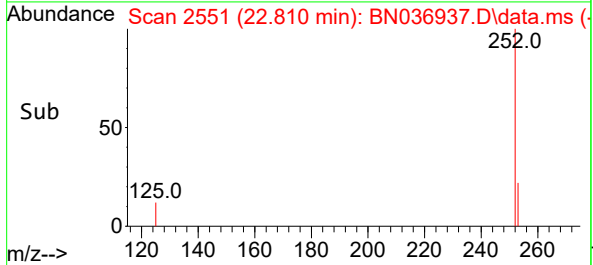
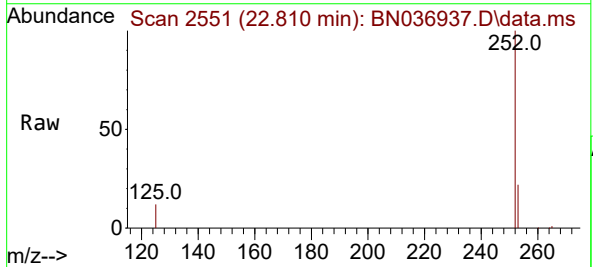
Instrument :  
BNA\_N  
ClientSampleId :  
38072-010925DL

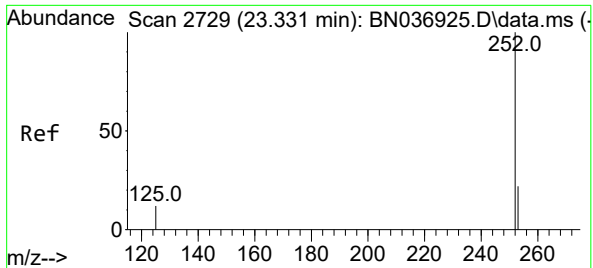
Tgt Ion:252 Resp: 710014  
Ion Ratio Lower Upper  
252 100  
253 21.8 22.1 33.1#  
125 12.3 14.2 21.2#



#38  
Benzo(k)fluoranthene  
Concen: 9.109 ng  
RT: 22.810 min Scan# 2551  
Delta R.T. 0.003 min  
Lab File: BN036937.D  
Acq: 29 Apr 2025 13:41

Tgt Ion:252 Resp: 229443  
Ion Ratio Lower Upper  
252 100  
253 21.8 22.8 34.2#  
125 12.3 14.2 21.2#





#39

Benzo(a)pyrene

Concen: 17.678 ng

RT: 23.331 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036937.D

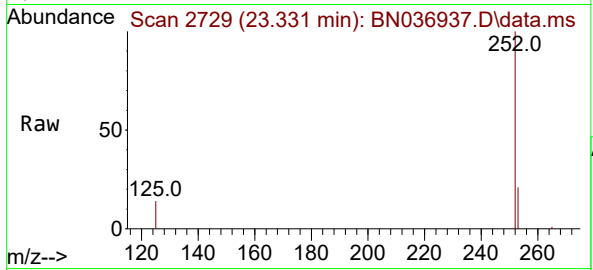
Acq: 29 Apr 2025 13:41

Instrument :

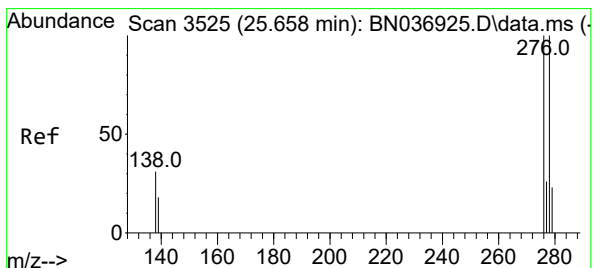
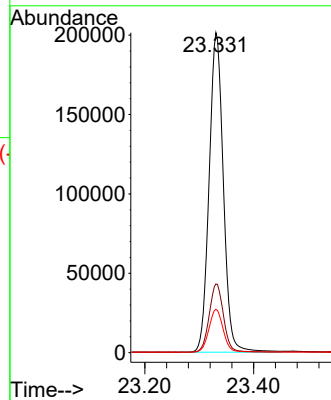
BNA\_N

ClientSampleId :

38072-010925DL



|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 364004 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 21.5  | 25.9  | 38.9#  |
| 125       | 13.5  | 17.4  | 26.0#  |



#40

Dibenzo(a,h)anthracene

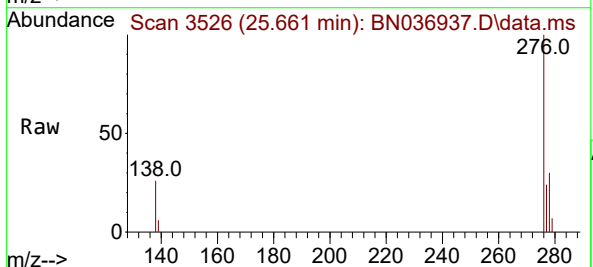
Concen: 9.314 ng

RT: 25.661 min Scan# 3526

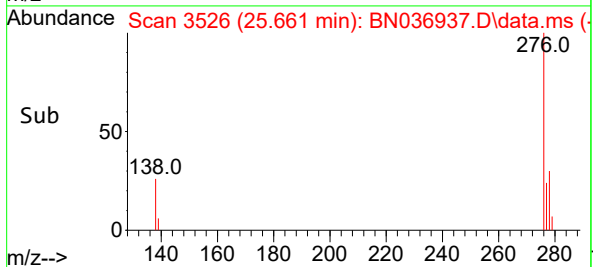
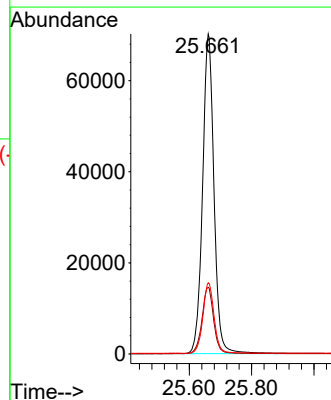
Delta R.T. 0.003 min

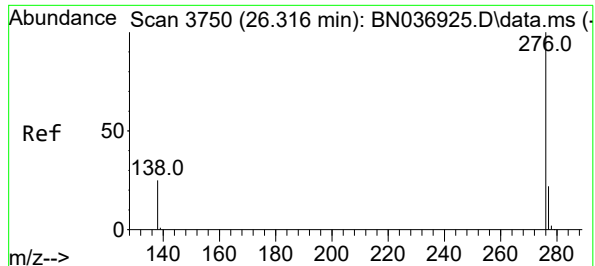
Lab File: BN036937.D

Acq: 29 Apr 2025 13:41



|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 278   | Resp: | 178329 |
| Ion Ratio | Lower | Upper |        |
| 278       | 100   |       |        |
| 139       | 20.8  | 17.4  | 26.2   |
| 279       | 22.3  | 24.9  | 37.3#  |





#41

Benzo(g,h,i)perylene

Concen: 8.458 ng

RT: 26.322 min Scan# 31

Delta R.T. 0.006 min

Lab File: BN036937.D

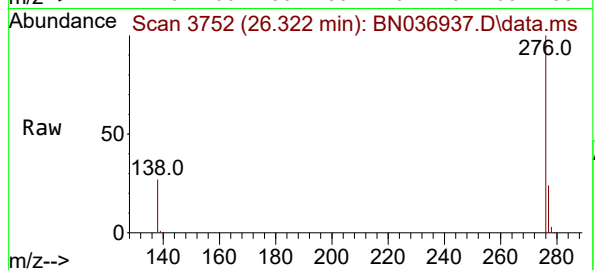
Acq: 29 Apr 2025 13:41

Instrument :

BNA\_N

ClientSampleId :

38072-010925DL



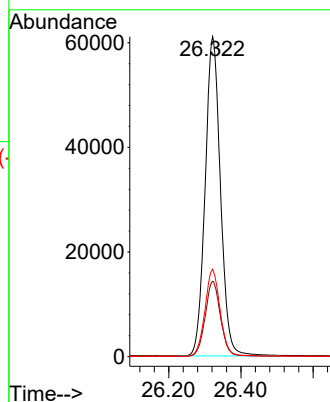
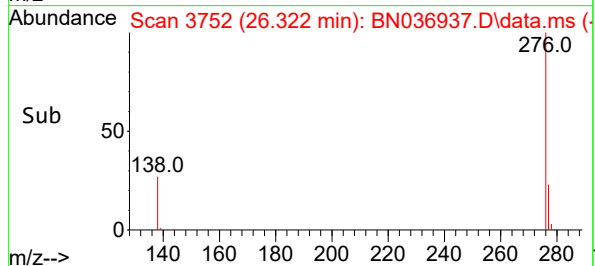
Tgt Ion:276 Resp: 179719

Ion Ratio Lower Upper

276 100

277 23.6 20.2 30.2

138 27.3 21.9 32.9



## Report of Analysis

|                    |                                        |                 |               |
|--------------------|----------------------------------------|-----------------|---------------|
| Client:            | Alliance Technical Group, LLC - Newark | Date Collected: | 04/21/25      |
| Project:           | NJ Waste Water PT                      | Date Received:  | 04/23/25      |
| Client Sample ID:  | 38072-010925DL2                        | SDG No.:        | Q1870         |
| Lab Sample ID:     | Q1870-01DL2                            | Matrix:         | Water         |
| Analytical Method: | SW8270ESIM                             | % Solid:        | 0             |
| Sample Wt/Vol:     | 1000      Units:    mL                 | Final Vol:      | 1000      uL  |
| Soil Aliquot Vol:  | uL                                     | Test:           | SVOCMS Group5 |
| 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 |
| BN036938.D        | 50        | 04/24/25 12:05 | 04/29/25 14:17 | PB167728      |

| CAS Number                | Parameter               | Conc. | Qualifier | MDL      | LOQ / CRQL | Units    |
|---------------------------|-------------------------|-------|-----------|----------|------------|----------|
| <b>TARGETS</b>            |                         |       |           |          |            |          |
| 208-96-8                  | Acenaphthylene          | 230   | D         | 1.90     | 5.00       | ug/L     |
| <b>SURROGATES</b>         |                         |       |           |          |            |          |
| 7297-45-2                 | 2-Methylnaphthalene-d10 | 0     | *         | 20 - 139 | 0%         | SPK: 0.4 |
| 93951-69-0                | Fluoranthene-d10        | 0     | *         | 30 - 150 | 0%         | SPK: 0.4 |
| 4165-60-0                 | Nitrobenzene-d5         | 0     | *         | 27 - 154 | 0%         | SPK: 0.4 |
| 321-60-8                  | 2-Fluorobiphenyl        | 0     | *         | 25 - 149 | 0%         | SPK: 0.4 |
| 1718-51-0                 | Terphenyl-d14           | 0     | *         | 54 - 175 | 0%         | SPK: 0.4 |
| <b>INTERNAL STANDARDS</b> |                         |       |           |          |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4  | 2430  |           | 7.633    |            |          |
| 1146-65-2                 | Naphthalene-d8          | 6300  |           | 10.415   |            |          |
| 15067-26-2                | Acenaphthene-d10        | 3590  |           | 14.277   |            |          |
| 1517-22-2                 | Phenanthrene-d10        | 7140  |           | 17.021   |            |          |
| 1719-03-5                 | Chrysene-d12            | 6700  |           | 21.215   |            |          |
| 1520-96-3                 | Perylene-d12            | 5500  |           | 23.43    |            |          |

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\BN042925\  
 Data File : BN036938.D  
 Acq On : 29 Apr 2025 14:17  
 Operator : RC/JU  
 Sample : Q1870-01DL2 50X  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 38072-010925DL2

Quant Time: Apr 29 14:40:26 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN042825.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Apr 28 15:35:03 2025  
 Response via : Initial Calibration

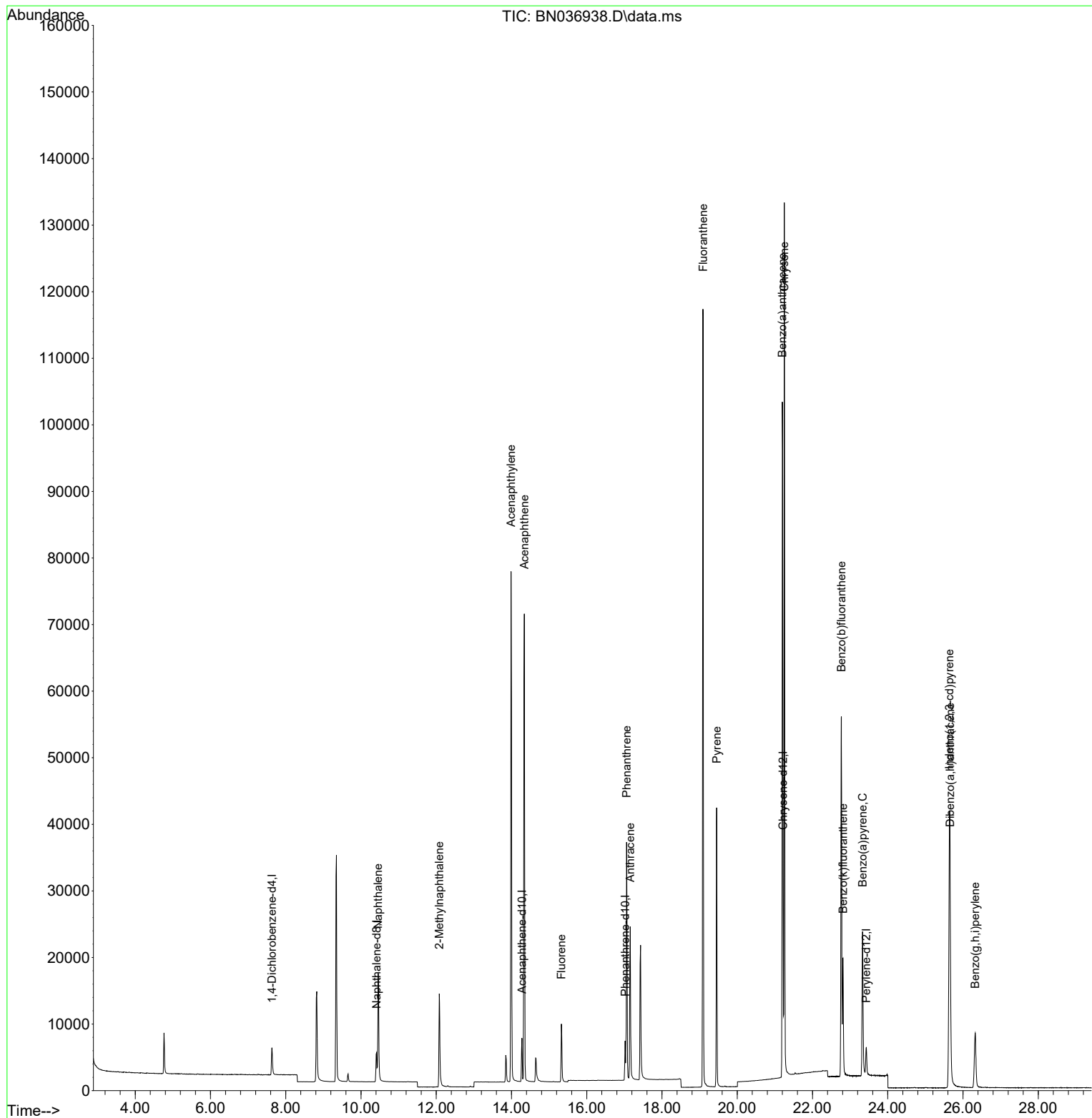
| Compound                    | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|--------|------|----------|-------|-------|----------|
| -----                       |        |      |          |       |       |          |
| Internal Standards          |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.633  | 152  | 2432     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8           | 10.415 | 136  | 6295     | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10        | 14.277 | 164  | 3589     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10        | 17.021 | 188  | 7137     | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12            | 21.215 | 240  | 6695     | 0.400 | ng    | # 0.00   |
| 35) Perylene-d12            | 23.430 | 264  | 5501     | 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          | 0.000  | 82   | 0d       | 0.000 | ng    |          |
| 11) 2-Methylnaphthalene-d10 | 0.000  | 152  | 0d       | 0.000 | ng    |          |
| 14) 2,4,6-Tribromophenol    | 0.000  | 330  | 0d       | 0.000 | ng    |          |
| 15) 2-Fluorobiphenyl        | 0.000  | 172  | 0d       | 0.000 | ng    |          |
| 27) Fluoranthene-d10        | 0.000  | 212  | 0d       | 0.000 | ng    |          |
| 31) Terphenyl-d14           | 0.000  | 244  | 0d       | 0.000 | ng    |          |
|                             |        |      |          |       |       |          |
| Target Compounds            |        |      |          |       |       | Qvalue   |
| 9) Naphthalene              | 10.458 | 128  | 22192    | 1.211 | ng    | 98       |
| 12) 2-Methylnaphthalene     | 12.082 | 142  | 11450    | 0.967 | ng    | 99       |
| 16) Acenaphthylene          | 13.989 | 152  | 79777    | 4.548 | ng    | 99       |
| 17) Acenaphthene            | 14.341 | 154  | 34081    | 2.957 | ng    | 99       |
| 18) Fluorene                | 15.325 | 166  | 6026     | 0.400 | ng    | 98       |
| 25) Phenanthrene            | 17.058 | 178  | 35341    | 1.500 | ng    | 99       |
| 26) Anthracene              | 17.158 | 178  | 26761    | 1.256 | ng    | 100      |
| 28) Fluoranthene            | 19.091 | 202  | 103493   | 3.920 | ng    | 99       |
| 30) Pyrene                  | 19.453 | 202  | 36010    | 1.117 | ng    | 99       |
| 32) Benzo(a)anthracene      | 21.197 | 228  | 84662    | 3.434 | ng    | 97       |
| 33) Chrysene                | 21.251 | 228  | 101268   | 3.808 | ng    | 98       |
| 36) Indeno(1,2,3-cd)pyrene  | 25.640 | 276  | 68690    | 3.058 | ng    | 96       |
| 37) Benzo(b)fluoranthene    | 22.766 | 252  | 63619    | 2.750 | ng    | # 89     |
| 38) Benzo(k)fluoranthene    | 22.810 | 252  | 21335    | 0.917 | ng    | # 91     |
| 39) Benzo(a)pyrene          | 23.330 | 252  | 31475    | 1.655 | ng    | # 85     |
| 40) Dibenzo(a,h)anthracene  | 25.658 | 278  | 16267    | 0.920 | ng    | 93       |
| 41) Benzo(g,h,i)perylene    | 26.324 | 276  | 16655    | 0.849 | ng    | 99       |
| -----                       |        |      |          |       |       |          |

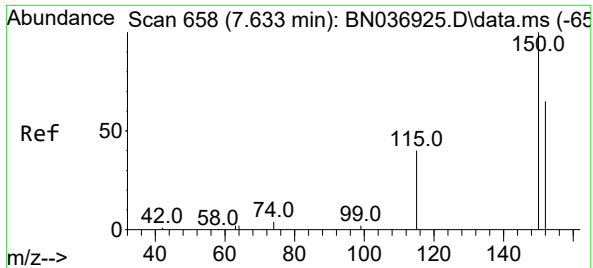
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN042925\  
Data File : BN036938.D  
Acq On : 29 Apr 2025 14:17  
Operator : RC/JU  
Sample : Q1870-01DL2 50X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
38072-010925DL2

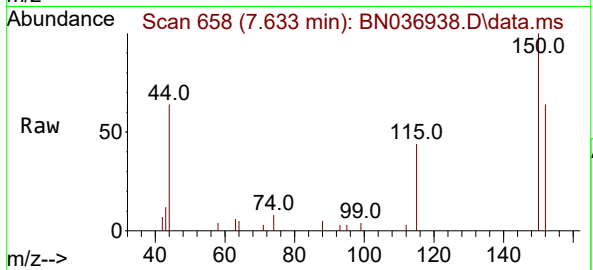
Quant Time: Apr 29 14:40:26 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN042825.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Apr 28 15:35:03 2025  
Response via : Initial Calibration



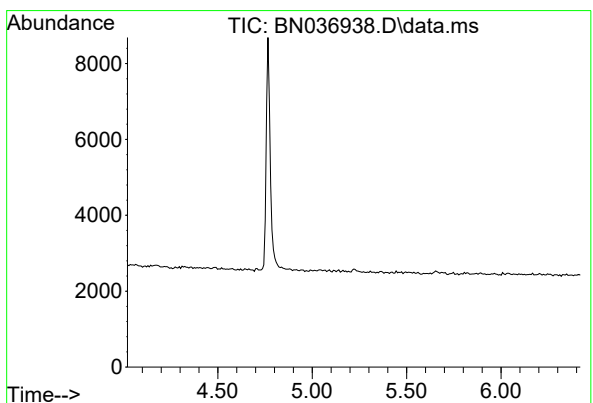
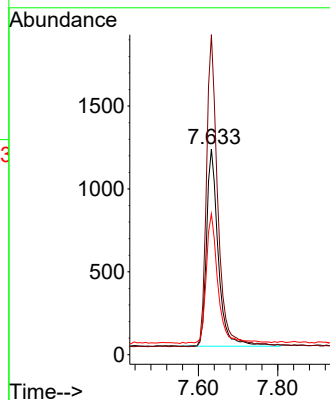
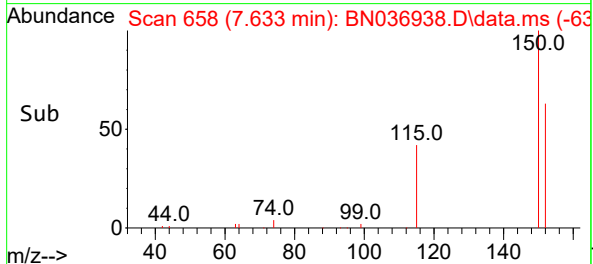


#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.633 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: BN036938.D  
Acq: 29 Apr 2025 14:17

Instrument :  
BNA\_N  
ClientSampleId :  
38072-010925DL2



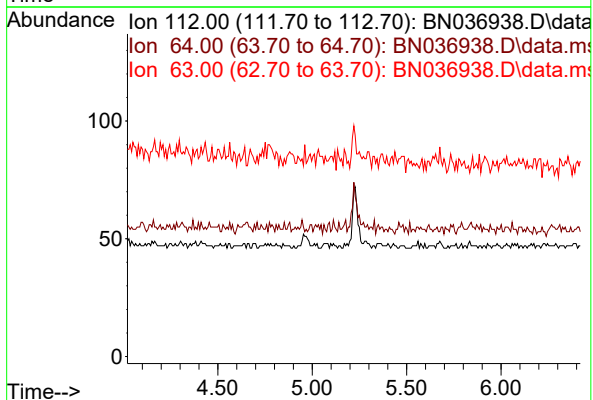
Tgt Ion:152 Resp: 2432  
Ion Ratio Lower Upper  
152 100  
150 155.6 121.1 181.7  
115 68.5 51.8 77.6

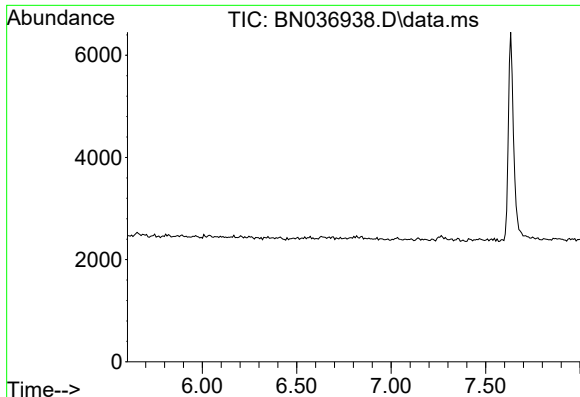


#4  
2-Fluorophenol  
Concen: 0.000 ng  
Expected RT: 5.22 min

Lab File: BN036938.D  
Acq: 29 Apr 2025 14:17

Tgt Ion: 112  
Sig Exp Ratio  
112 100  
64 69.6  
63 42.4



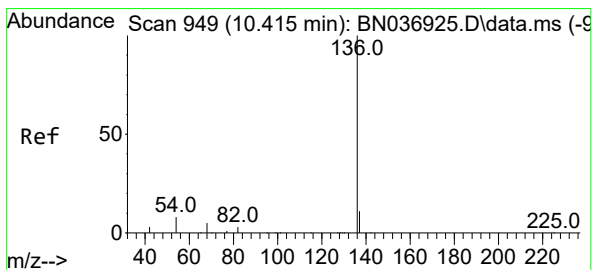
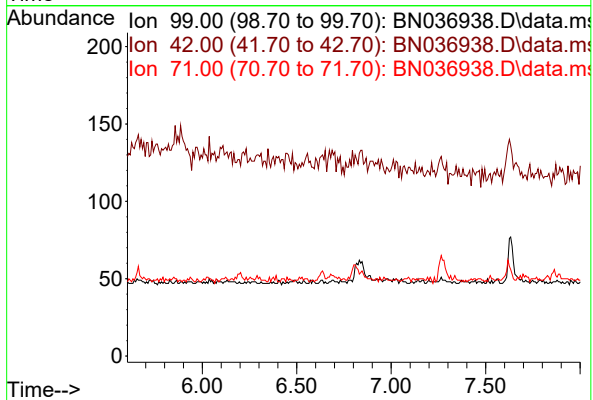


#5  
Phenol-d6  
Concen: 0.000 ng  
Expected RT: 6.80 min

Lab File: BN036938.D  
Acq: 29 Apr 2025 14:17

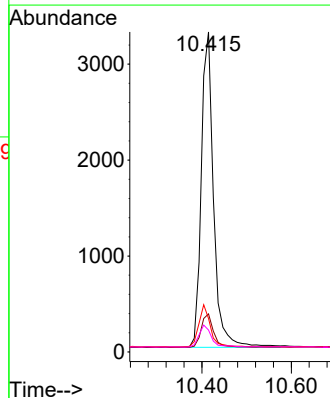
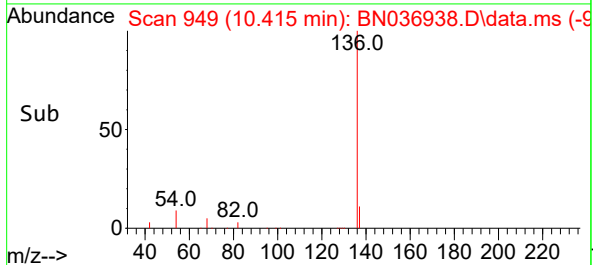
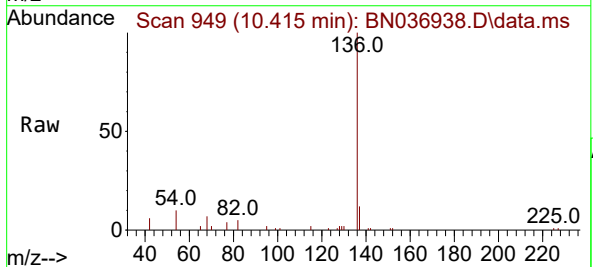
Instrument :  
BNA\_N  
ClientSampleId :  
38072-010925DL2

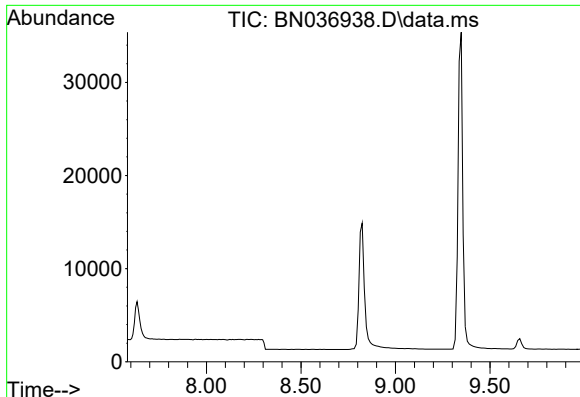
Tgt Ion: 99  
Sig Exp Ratio  
99 100  
42 37.0  
71 45.0



#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.415 min Scan# 949  
Delta R.T. -0.000 min  
Lab File: BN036938.D  
Acq: 29 Apr 2025 14:17

Tgt Ion: 136 Resp: 6295  
Ion Ratio Lower Upper  
136 100  
137 11.9 9.7 14.5  
54 10.4 8.0 12.0  
68 6.8 5.1 7.7

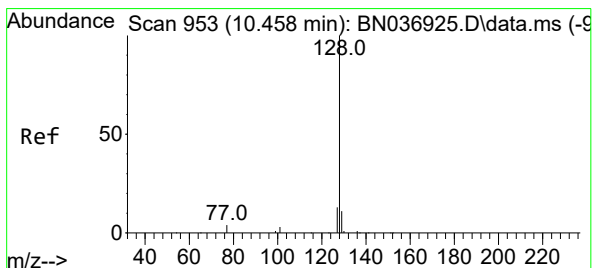
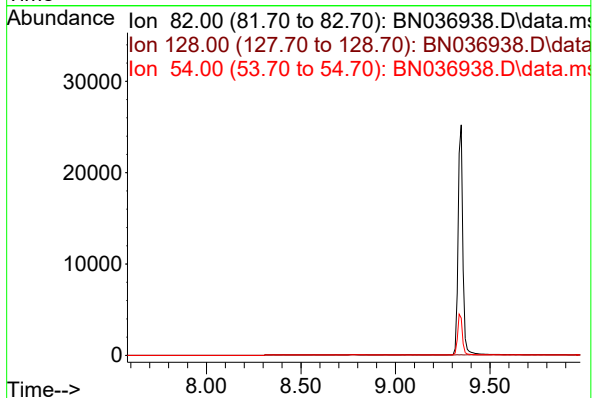




#8  
Nitrobenzene-d5  
Concen: 0.000 ng  
Expected RT: 8.78 min  
Lab File: BN036938.D  
Acq: 29 Apr 2025 14:17

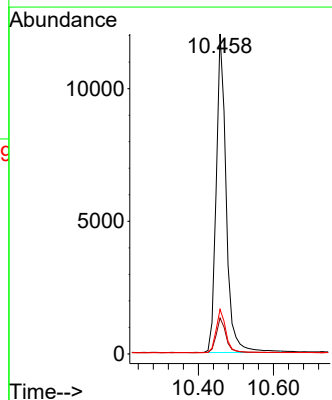
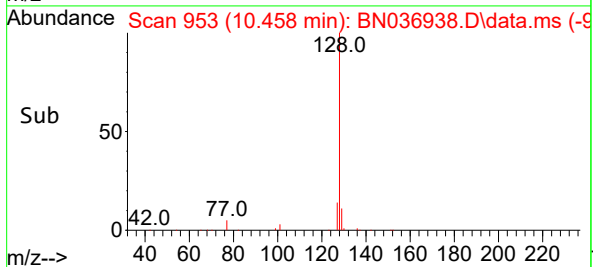
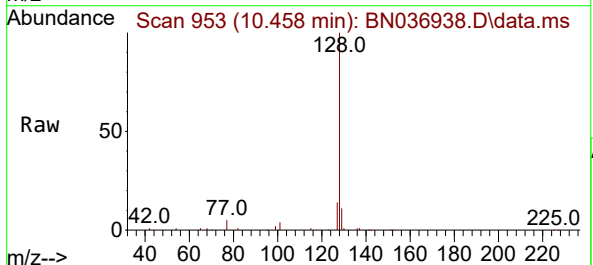
Instrument :  
BNA\_N  
ClientSampleId :  
38072-010925DL2

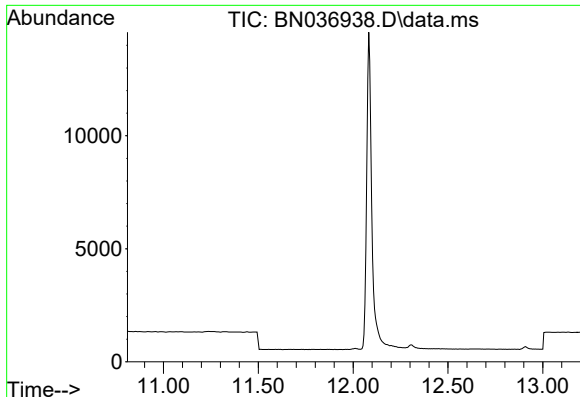
Tgt Ion: 82  
Sig Exp Ratio  
82 100  
128 38.4  
54 65.1



#9  
Naphthalene  
Concen: 1.211 ng  
RT: 10.458 min Scan# 953  
Delta R.T. -0.000 min  
Lab File: BN036938.D  
Acq: 29 Apr 2025 14:17

Tgt Ion: 128 Resp: 22192  
Ion Ratio Lower Upper  
128 100  
129 11.2 9.8 14.6  
127 13.9 11.4 17.2

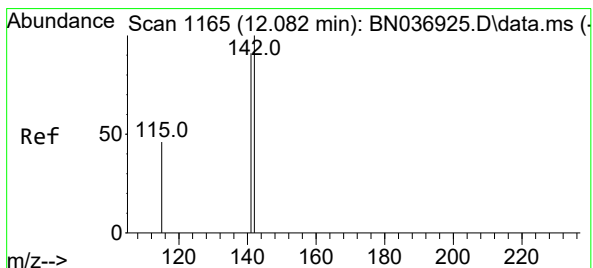
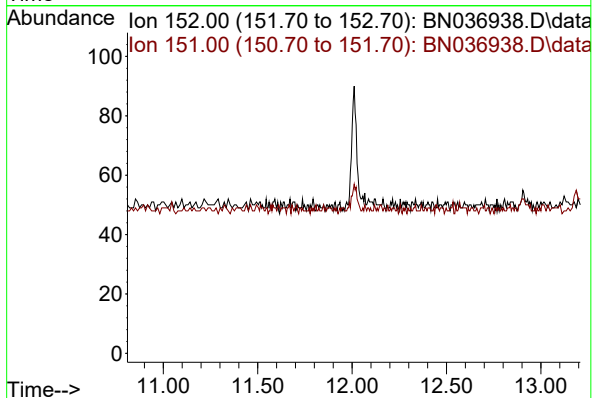




#11  
2-Methylnaphthalene-d10  
Concen: 0.000 ng  
Expected RT: 12.01 min  
Lab File: BN036938.D  
Acq: 29 Apr 2025 14:17

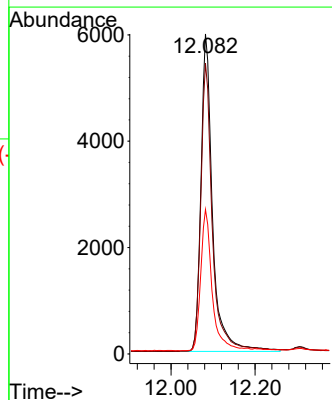
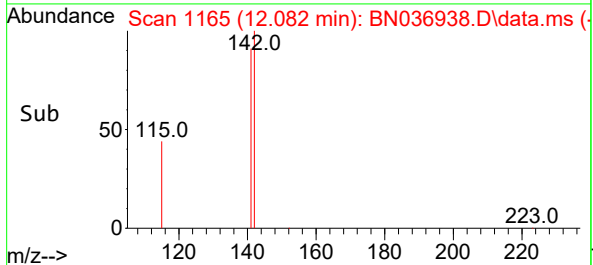
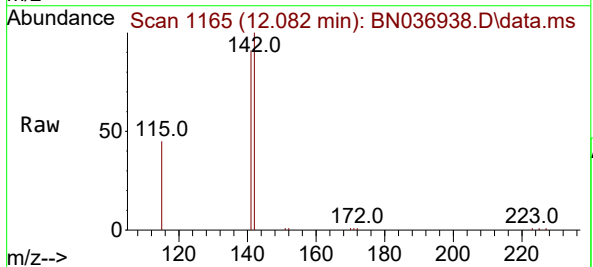
Instrument :  
BNA\_N  
ClientSampleId :  
38072-010925DL2

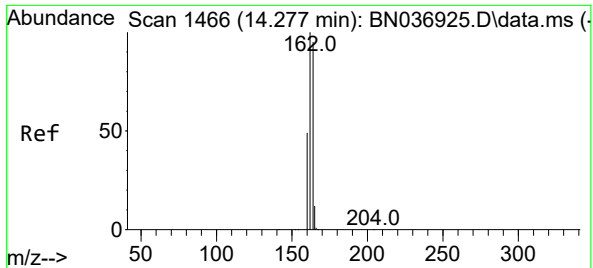
Tgt Ion: 152  
Sig Exp Ratio  
152 100  
151 21.1



#12  
2-Methylnaphthalene  
Concen: 0.967 ng  
RT: 12.082 min Scan# 1165  
Delta R.T. -0.000 min  
Lab File: BN036938.D  
Acq: 29 Apr 2025 14:17

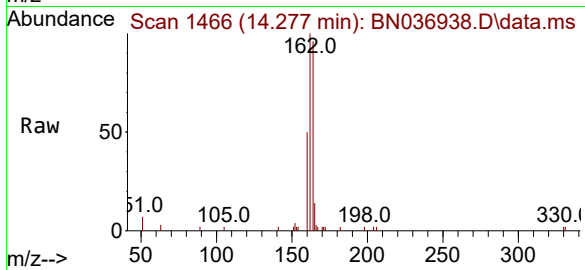
Tgt Ion:142 Resp: 11450  
Ion Ratio Lower Upper  
142 100  
141 90.8 72.8 109.2  
115 45.2 38.2 57.4



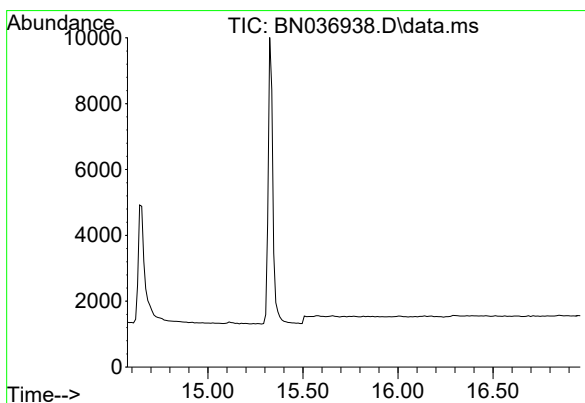
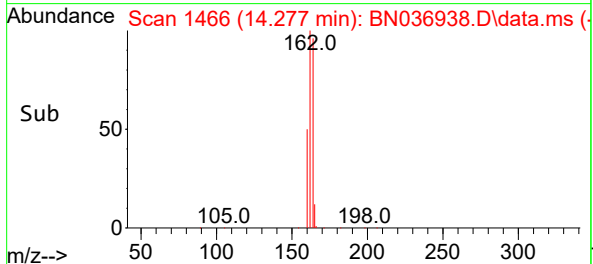
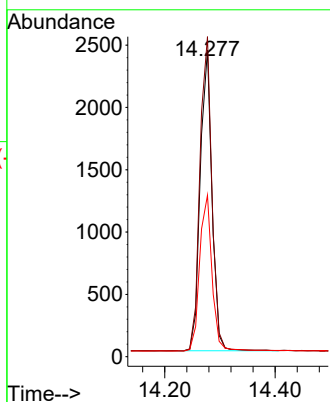


#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.277 min Scan# 14  
Delta R.T. -0.000 min  
Lab File: BN036938.D  
Acq: 29 Apr 2025 14:17

Instrument :  
BNA\_N  
ClientSampleId :  
38072-010925DL2



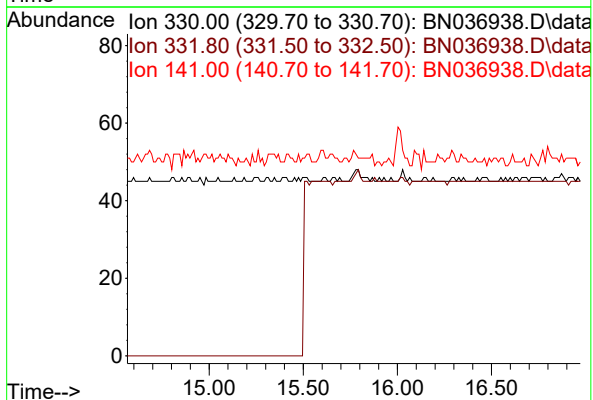
Tgt Ion:164 Resp: 3589  
Ion Ratio Lower Upper  
164 100  
162 104.3 83.8 125.8  
160 52.6 42.0 63.0

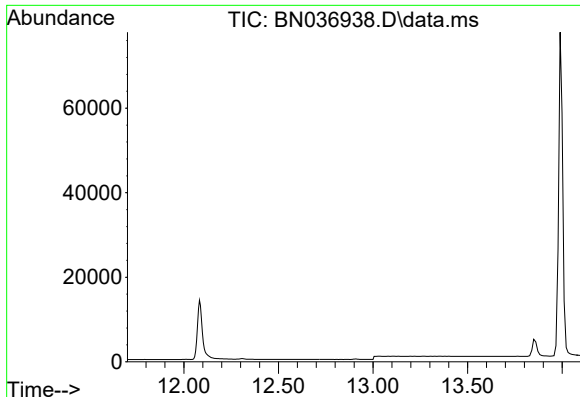


#14  
2,4,6-Tribromophenol  
Concen: 0.000 ng  
Expected RT: 15.77 min

Lab File: BN036938.D  
Acq: 29 Apr 2025 14:17

Tgt Ion: 330  
Sig Exp Ratio  
330 100  
332 95.4  
141 56.8

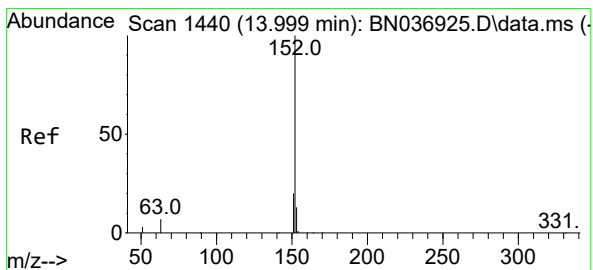
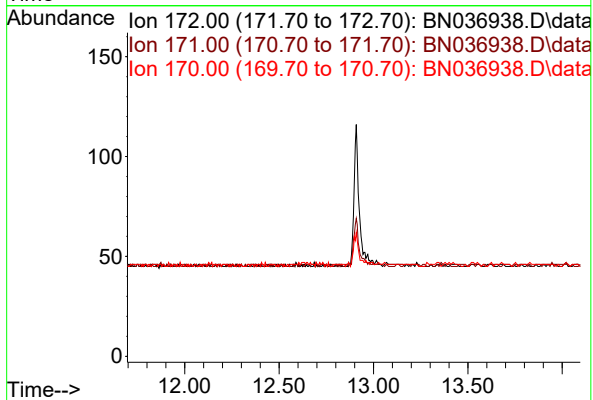




#15  
2-Fluorobiphenyl  
Concen: 0.000 ng  
Expected RT: 12.90 min  
Lab File: BN036938.D  
Acq: 29 Apr 2025 14:17

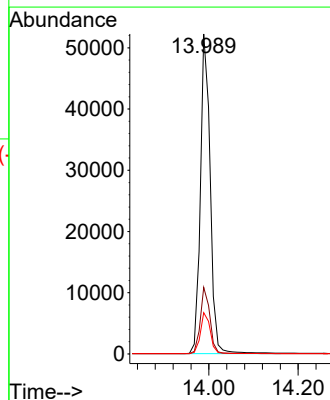
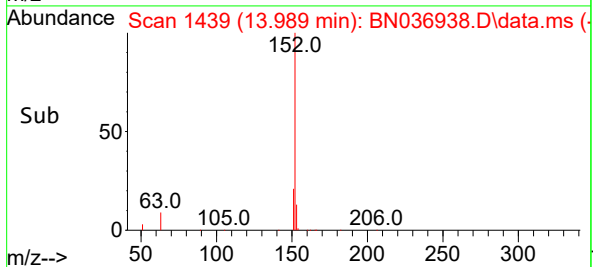
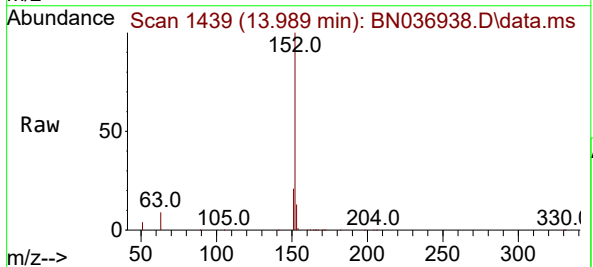
Instrument :  
BNA\_N  
ClientSampleId :  
38072-010925DL2

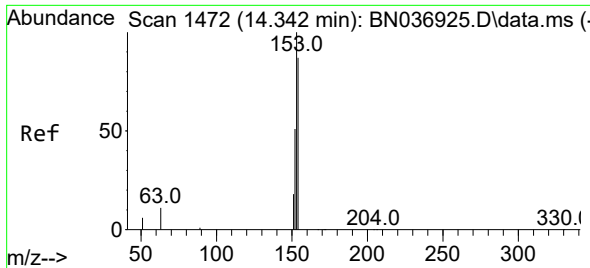
Tgt Ion: 172  
Sig Exp Ratio  
172 100  
171 36.7  
170 24.2



#16  
Acenaphthylene  
Concen: 4.548 ng  
RT: 13.989 min Scan# 1439  
Delta R.T. -0.011 min  
Lab File: BN036938.D  
Acq: 29 Apr 2025 14:17

Tgt Ion: 152 Resp: 79777  
Ion Ratio Lower Upper  
152 100  
151 20.3 16.0 24.0  
153 13.0 10.2 15.2

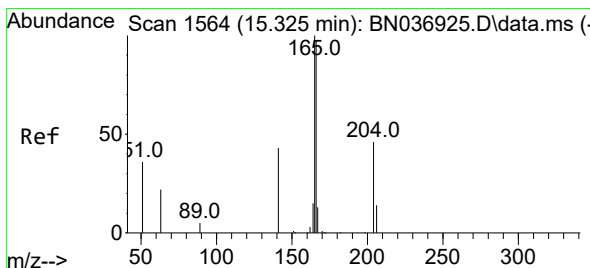
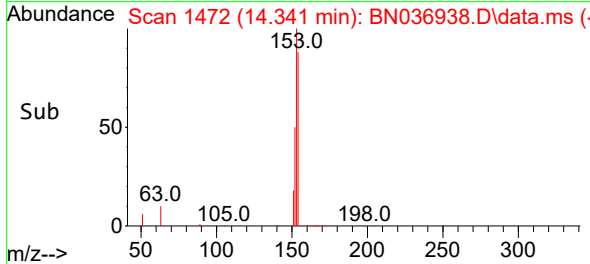
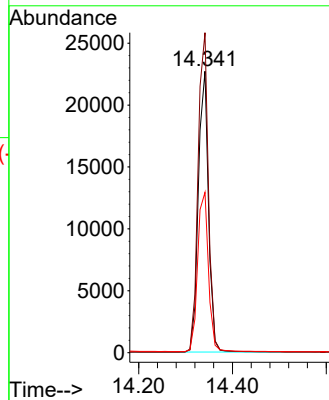
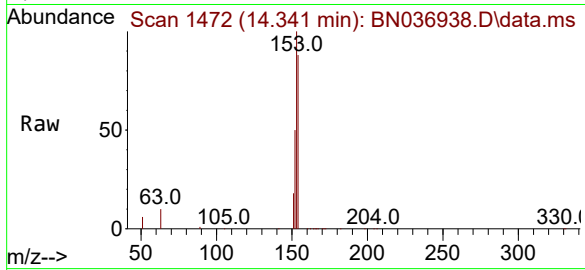




#17  
Acenaphthene  
Concen: 2.957 ng  
RT: 14.341 min Scan# 1472  
Delta R.T. -0.000 min  
Lab File: BN036938.D  
Acq: 29 Apr 2025 14:17

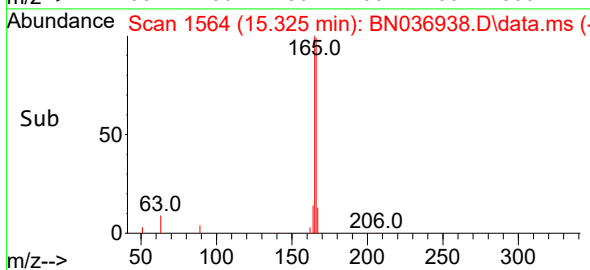
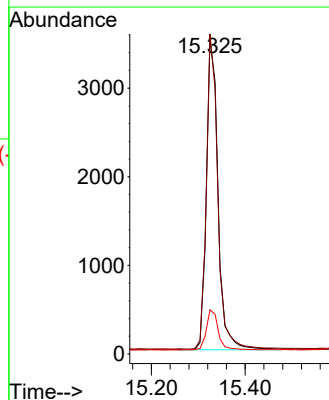
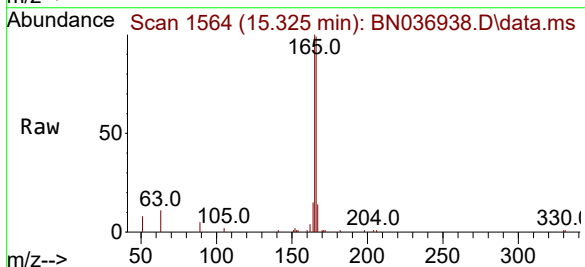
Instrument :  
BNA\_N  
ClientSampleId :  
38072-010925DL2

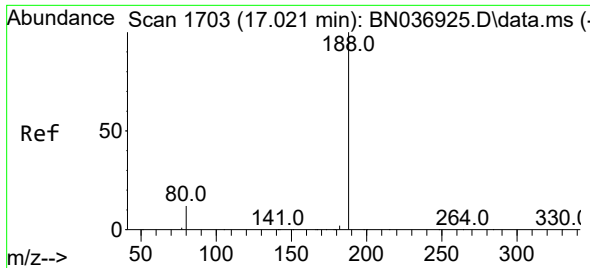
| Tgt Ion | 154   | 153   | 152  |
|---------|-------|-------|------|
| Resp:   | 34081 | 116.2 | 60.5 |
| Ratio   | 100   | 93.4  | 49.5 |
| Lower   |       | 93.4  | 49.5 |
| Upper   |       | 140.2 | 74.3 |



#18  
Fluorene  
Concen: 0.400 ng  
RT: 15.325 min Scan# 1564  
Delta R.T. -0.000 min  
Lab File: BN036938.D  
Acq: 29 Apr 2025 14:17

| Tgt Ion | 166  | 165   | 167  |
|---------|------|-------|------|
| Resp:   | 6026 | 99.4  | 13.1 |
| Ratio   | 100  | 80.8  | 10.8 |
| Lower   |      | 80.8  | 10.8 |
| Upper   |      | 121.2 | 16.2 |

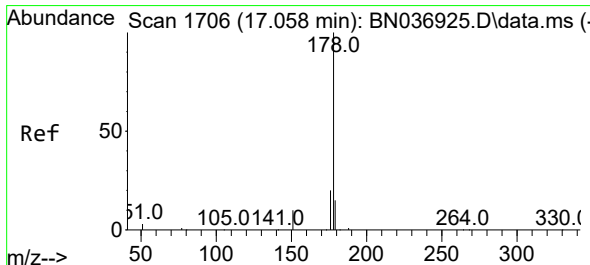
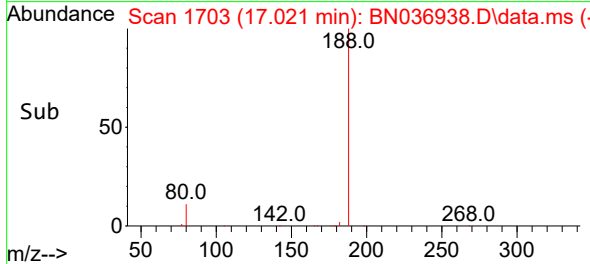
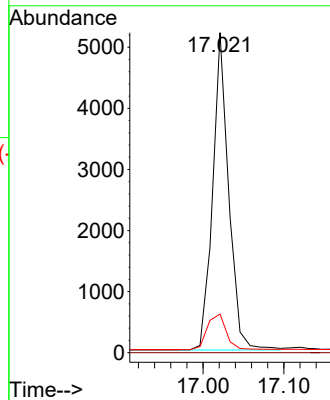
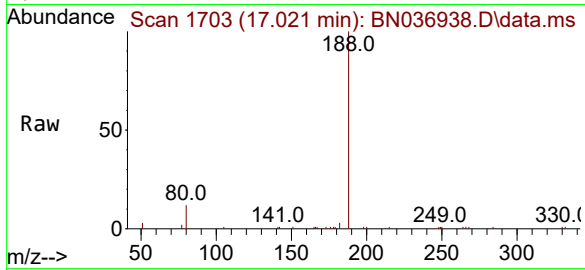




#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 17.021 min Scan# 1703  
Delta R.T. -0.000 min  
Lab File: BN036938.D  
Acq: 29 Apr 2025 14:17

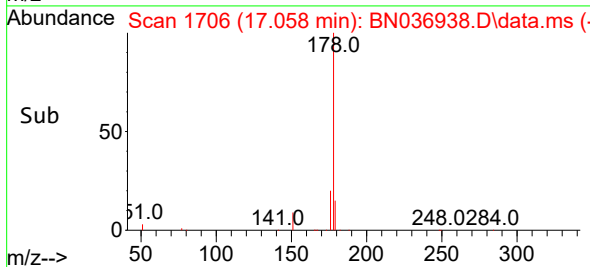
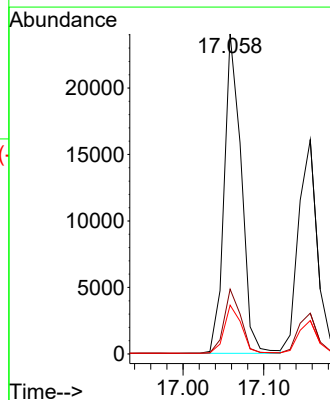
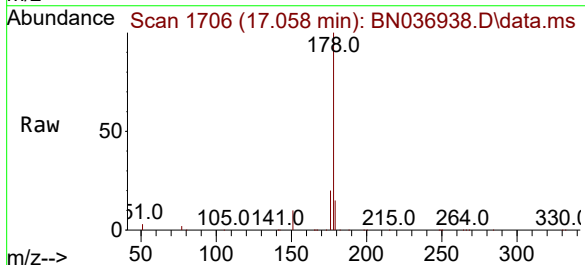
Instrument :  
BNA\_N  
ClientSampleId :  
38072-010925DL2

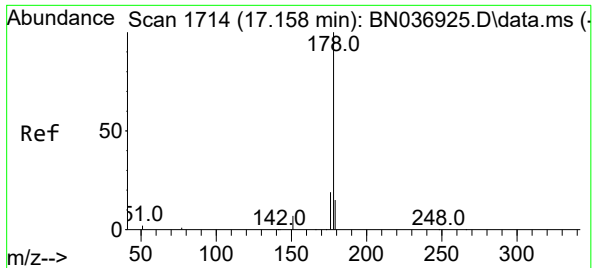
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 0.0   | 0.0   | 0.0   |
| 80      | 12.0  | 10.7  | 16.1  |



#25  
Phenanthrene  
Concen: 1.500 ng  
RT: 17.058 min Scan# 1706  
Delta R.T. -0.000 min  
Lab File: BN036938.D  
Acq: 29 Apr 2025 14:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.7  | 15.7  | 23.5  |
| 179     | 15.1  | 12.4  | 18.6  |

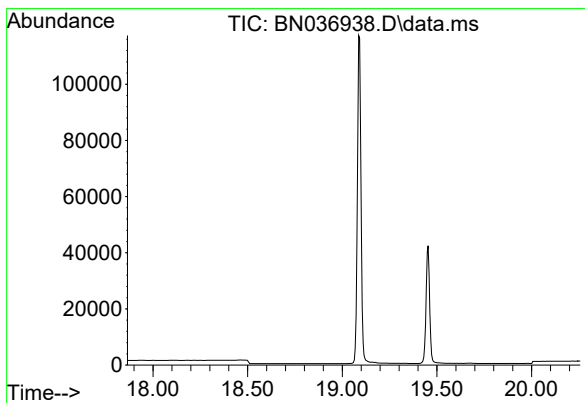
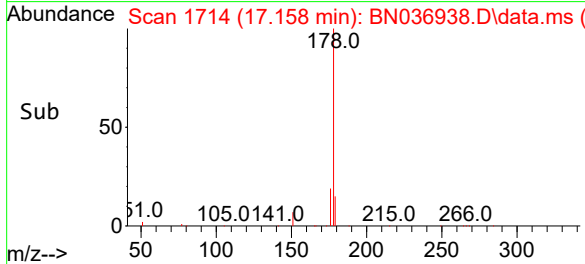
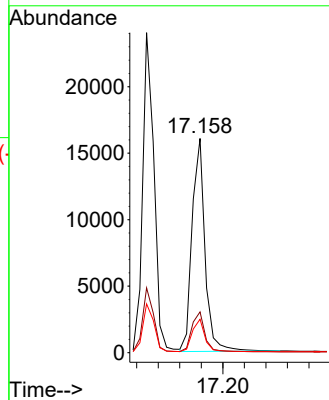
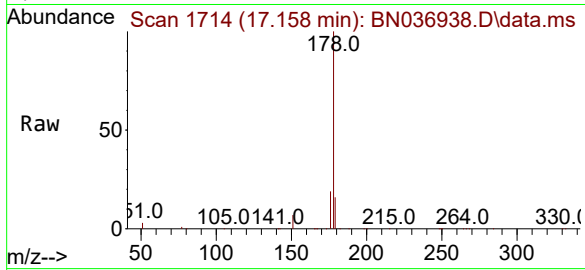




#26  
Anthracene  
Concen: 1.256 ng  
RT: 17.158 min Scan# 1  
Delta R.T. -0.000 min  
Lab File: BN036938.D  
Acq: 29 Apr 2025 14:17

Instrument :  
BNA\_N  
ClientSampleId :  
38072-010925DL2

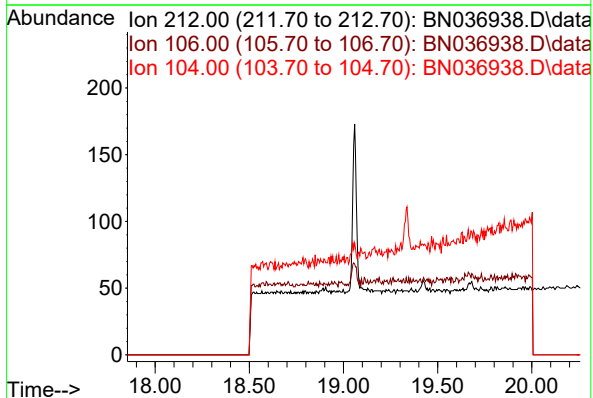
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 178     | 100  |       |       |
| 176     | 19.0 | 15.3  | 22.9  |
| 179     | 15.3 | 12.1  | 18.1  |

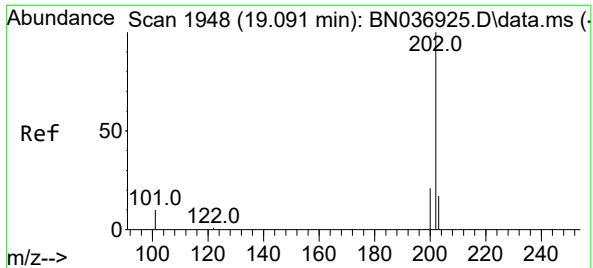


#27  
Fluoranthene-d10  
Concen: 0.000 ng  
Expected RT: 19.06 min

Lab File: BN036938.D  
Acq: 29 Apr 2025 14:17

| Tgt Ion | Sig  | Exp Ratio |
|---------|------|-----------|
| 212     | 100  |           |
| 106     | 14.5 |           |
| 104     | 8.7  |           |

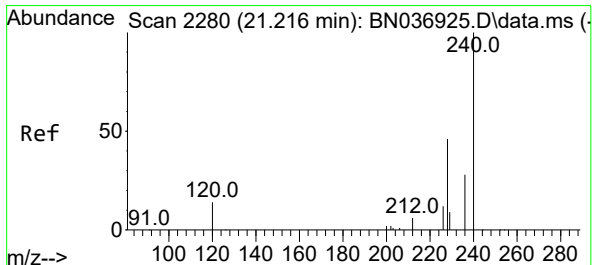
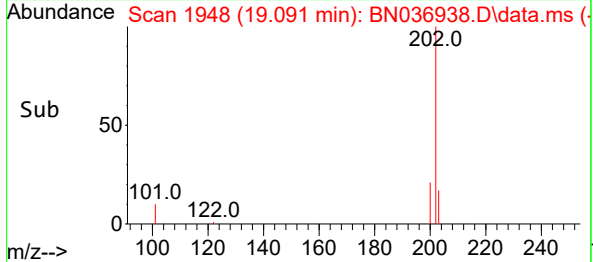
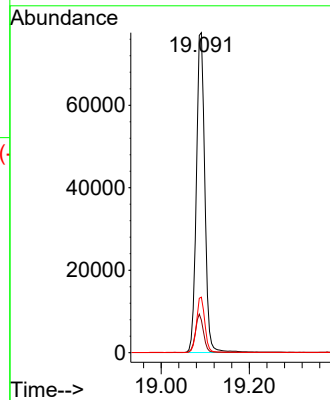
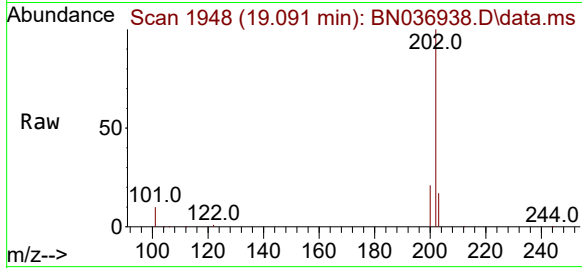




#28  
Fluoranthene  
Concen: 3.920 ng  
RT: 19.091 min Scan# 1948  
Delta R.T. -0.000 min  
Lab File: BN036938.D  
Acq: 29 Apr 2025 14:17

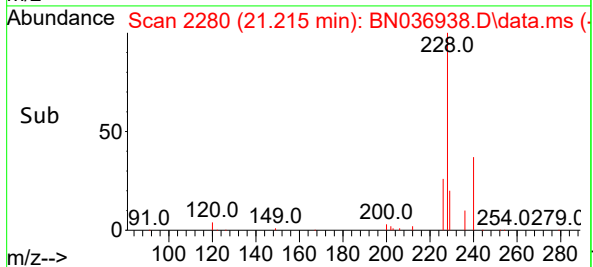
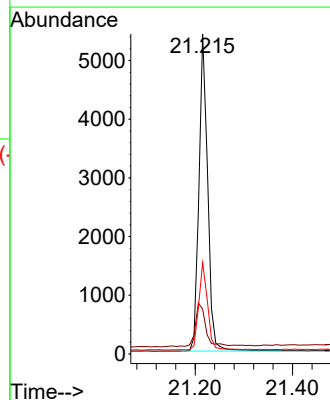
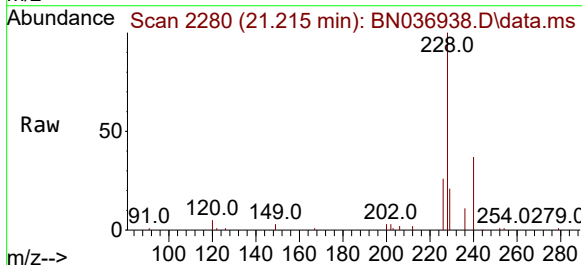
Instrument :  
BNA\_N  
ClientSampleId :  
38072-010925DL2

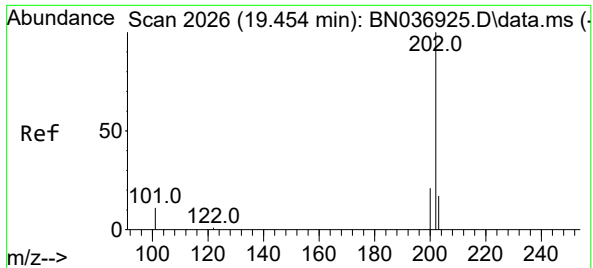
Tgt Ion:202 Resp: 103493  
Ion Ratio Lower Upper  
202 100  
101 11.4 8.5 12.7  
203 17.2 13.7 20.5



#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.215 min Scan# 2280  
Delta R.T. -0.000 min  
Lab File: BN036938.D  
Acq: 29 Apr 2025 14:17

Tgt Ion:240 Resp: 6695  
Ion Ratio Lower Upper  
240 100  
120 14.0 14.1 21.1#  
236 28.5 23.8 35.8

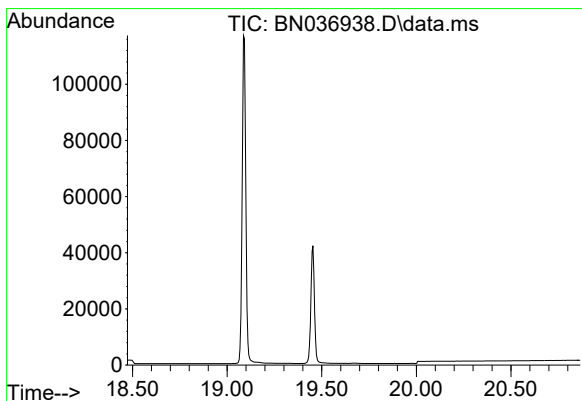
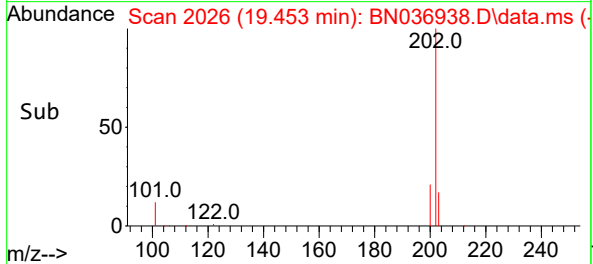
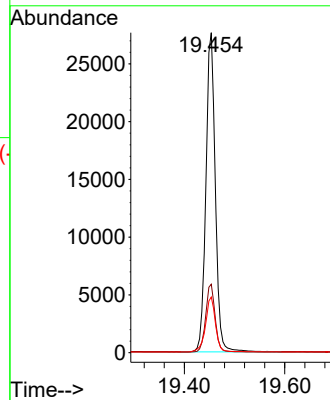
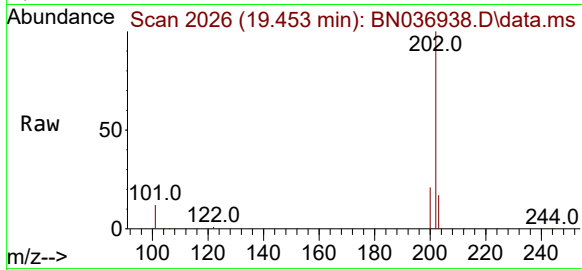




#30  
Pyrene  
Concen: 1.117 ng  
RT: 19.453 min Scan# 20  
Delta R.T. -0.000 min  
Lab File: BN036938.D  
Acq: 29 Apr 2025 14:17

Instrument :  
BNA\_N  
ClientSampleId :  
38072-010925DL2

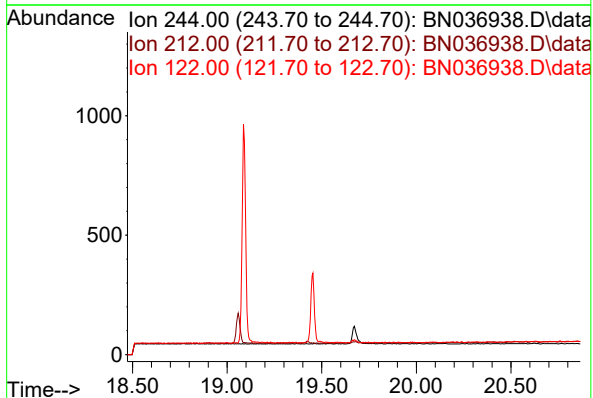
Tgt Ion:202 Resp: 36010  
Ion Ratio Lower Upper  
202 100  
200 21.5 17.0 25.6  
203 18.2 14.0 21.0

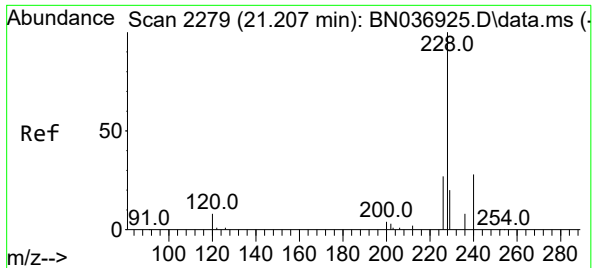


#31  
Terphenyl-d14  
Concen: 0.000 ng  
Expected RT: 19.67 min

Lab File: BN036938.D  
Acq: 29 Apr 2025 14:17

Tgt Ion: 244  
Sig Exp Ratio  
244 100  
212 12.0  
122 15.9

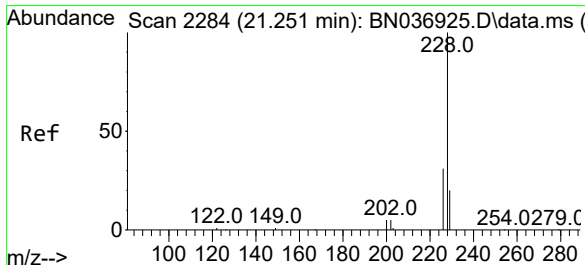
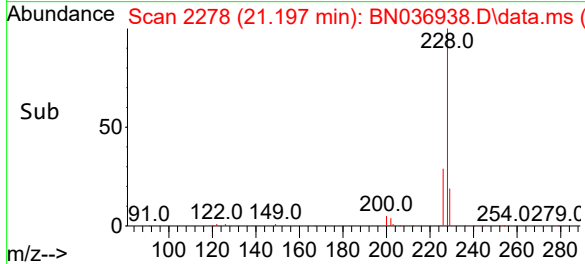
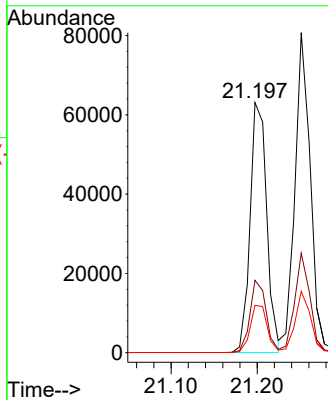
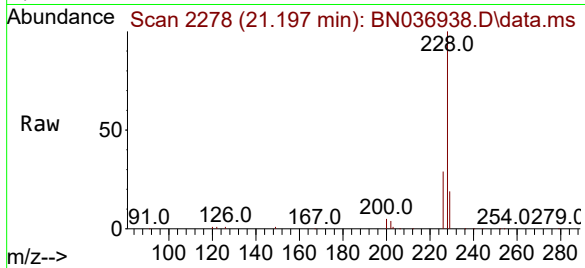




#32  
Benzo(a)anthracene  
Concen: 3.434 ng  
RT: 21.197 min Scan# 2119  
Delta R.T. -0.009 min  
Lab File: BN036938.D  
Acq: 29 Apr 2025 14:17

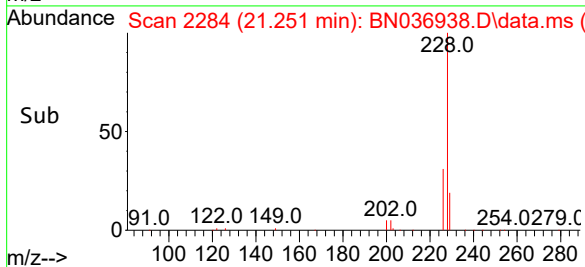
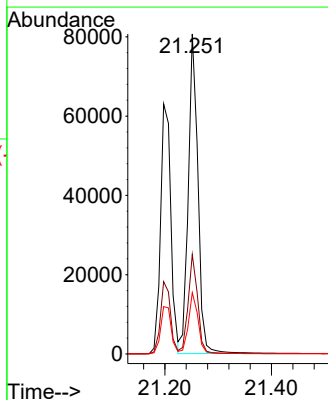
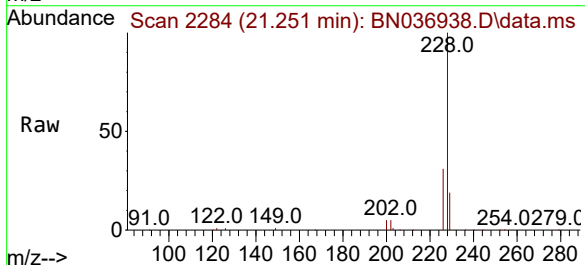
Instrument :  
BNA\_N  
ClientSampleId :  
38072-010925DL2

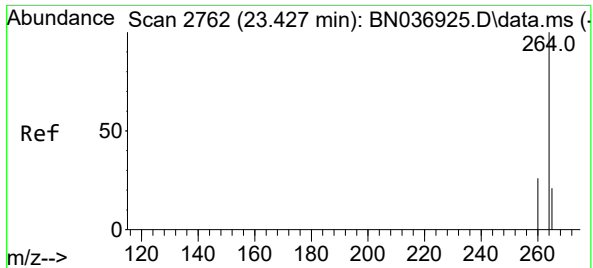
Tgt Ion:228 Resp: 84662  
Ion Ratio Lower Upper  
228 100  
226 28.9 22.2 33.4  
229 18.9 16.4 24.6



#33  
Chrysene  
Concen: 3.808 ng  
RT: 21.251 min Scan# 2284  
Delta R.T. -0.000 min  
Lab File: BN036938.D  
Acq: 29 Apr 2025 14:17

Tgt Ion:228 Resp: 101268  
Ion Ratio Lower Upper  
228 100  
226 31.1 25.5 38.3  
229 19.2 16.5 24.7

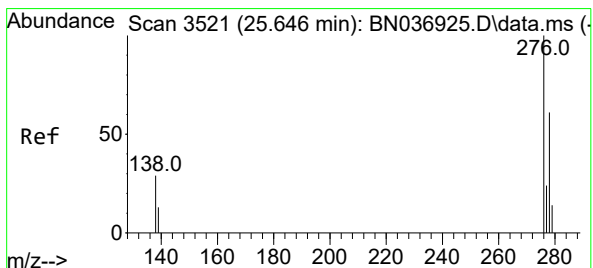
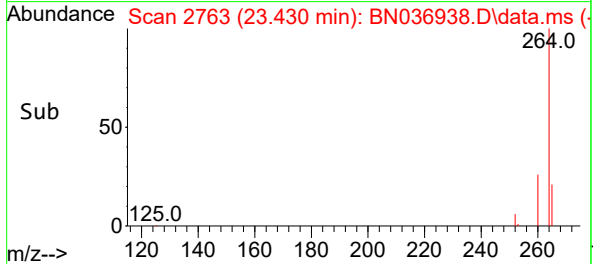
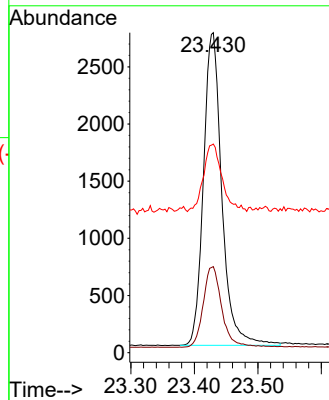
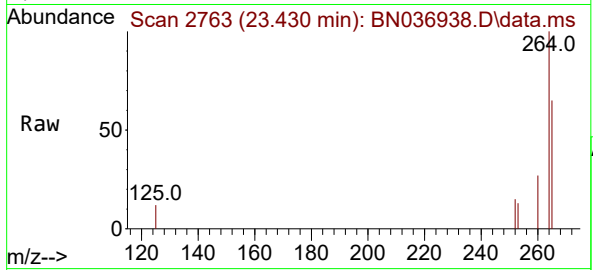




#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.430 min Scan# 21  
Delta R.T. 0.003 min  
Lab File: BN036938.D  
Acq: 29 Apr 2025 14:17

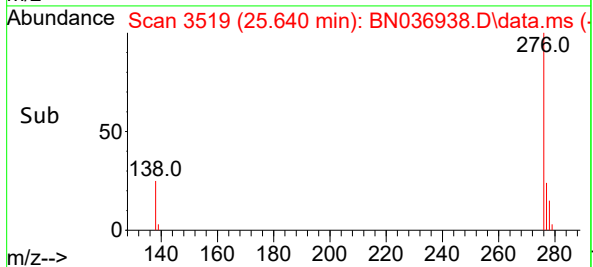
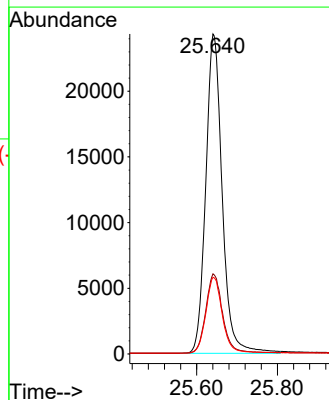
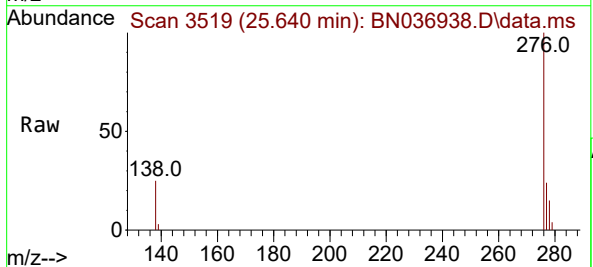
Instrument :  
BNA\_N  
ClientSampleId :  
38072-010925DL2

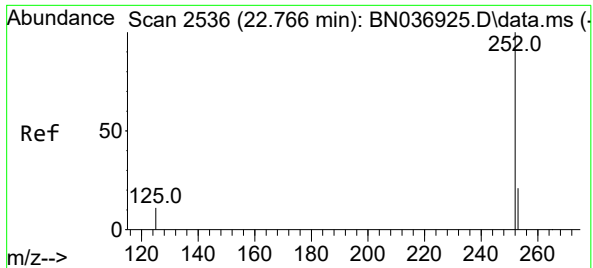
Tgt Ion:264 Resp: 5501  
Ion Ratio Lower Upper  
264 100  
260 26.9 22.2 33.2  
265 65.2 65.8 98.6#



#36  
Indeno(1,2,3-cd)pyrene  
Concen: 3.058 ng  
RT: 25.640 min Scan# 3519  
Delta R.T. -0.006 min  
Lab File: BN036938.D  
Acq: 29 Apr 2025 14:17

Tgt Ion:276 Resp: 68690  
Ion Ratio Lower Upper  
276 100  
138 25.6 23.0 34.6  
277 24.0 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 2.750 ng

RT: 22.766 min Scan# 2536

Delta R.T. -0.000 min

Lab File: BN036938.D

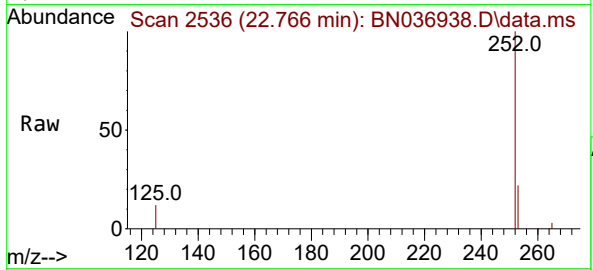
Acq: 29 Apr 2025 14:17

Instrument :

BNA\_N

ClientSampleId :

38072-010925DL2



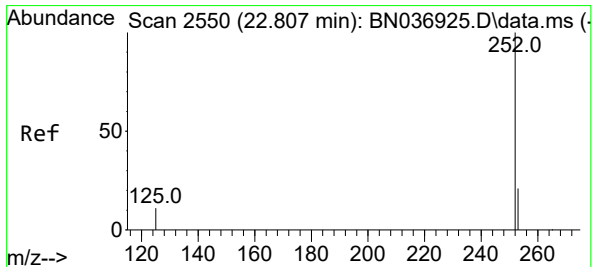
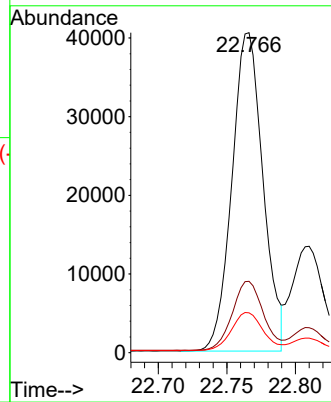
Tgt Ion:252 Resp: 63619

Ion Ratio Lower Upper

252 100

253 22.3 22.1 33.1

125 12.5 14.2 21.2#



#38

Benzo(k)fluoranthene

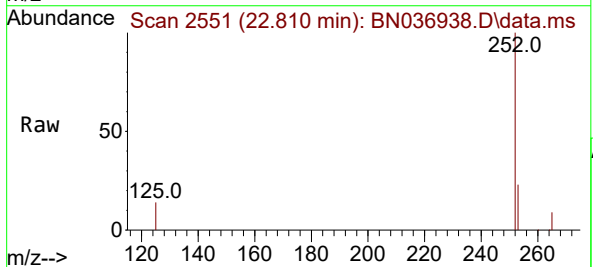
Concen: 0.917 ng

RT: 22.810 min Scan# 2551

Delta R.T. 0.003 min

Lab File: BN036938.D

Acq: 29 Apr 2025 14:17



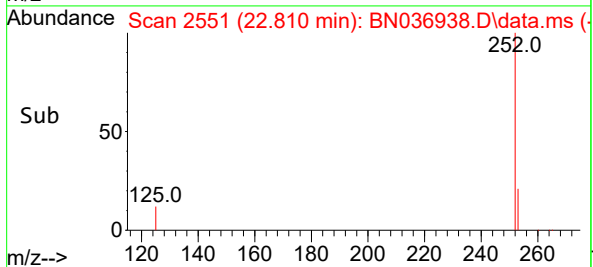
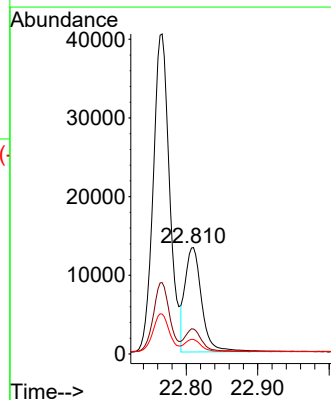
Tgt Ion:252 Resp: 21335

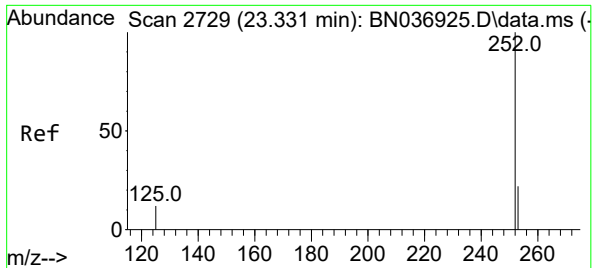
Ion Ratio Lower Upper

252 100

253 23.4 22.8 34.2

125 13.7 14.2 21.2#





#39

Benzo(a)pyrene

Concen: 1.655 ng

RT: 23.330 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036938.D

Acq: 29 Apr 2025 14:17

Instrument :

BNA\_N

ClientSampleId :

38072-010925DL2

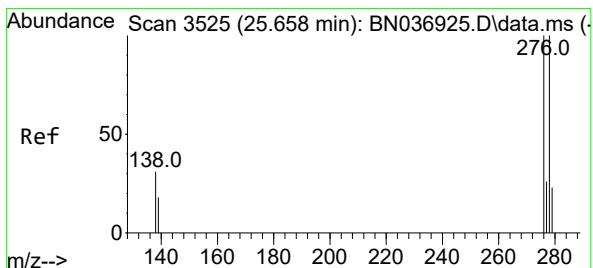
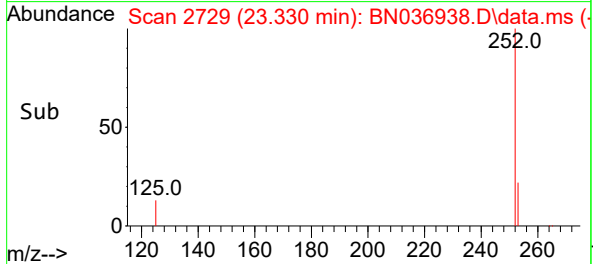
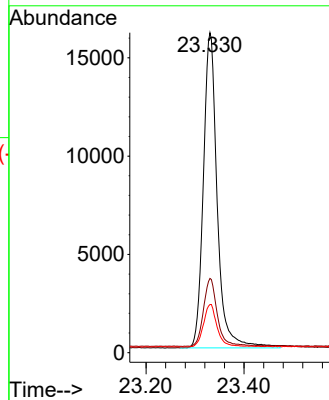
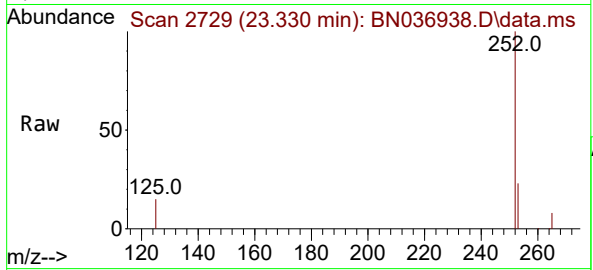
Tgt Ion:252 Resp: 31475

Ion Ratio Lower Upper

252 100

253 23.2 25.9 38.9#

125 15.1 17.4 26.0#



#40

Dibenzo(a,h)anthracene

Concen: 0.920 ng

RT: 25.658 min Scan# 3525

Delta R.T. -0.000 min

Lab File: BN036938.D

Acq: 29 Apr 2025 14:17

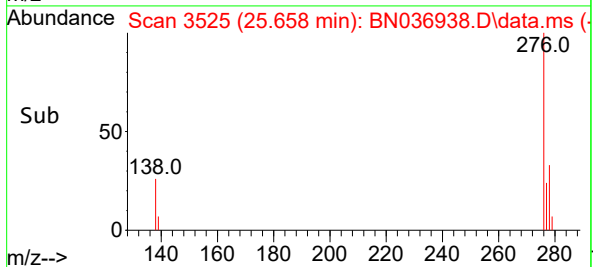
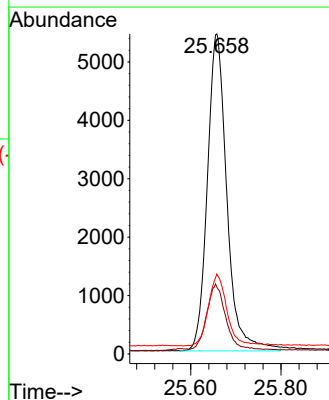
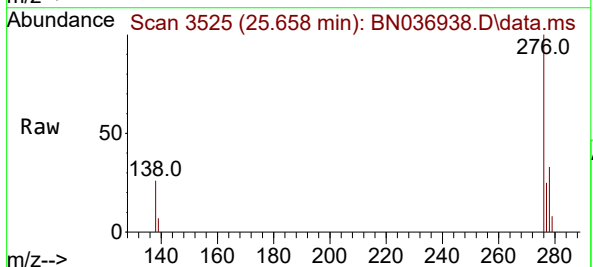
Tgt Ion:278 Resp: 16267

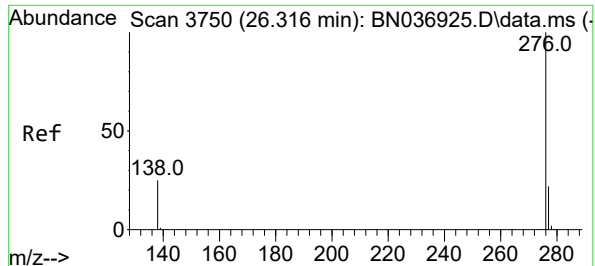
Ion Ratio Lower Upper

278 100

139 21.0 17.4 26.2

279 25.0 24.9 37.3





#41

Benzo(g,h,i)perylene

Concen: 0.849 ng

RT: 26.324 min Scan# 31

Delta R.T. 0.009 min

Lab File: BN036938.D

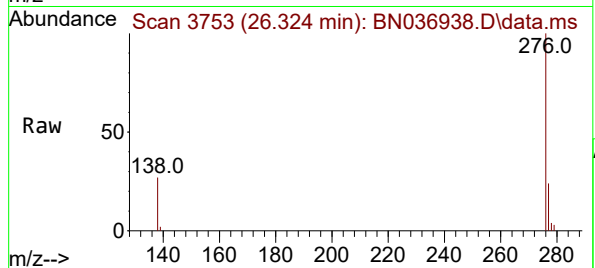
Acq: 29 Apr 2025 14:17

Instrument :

BNA\_N

ClientSampleId :

38072-010925DL2



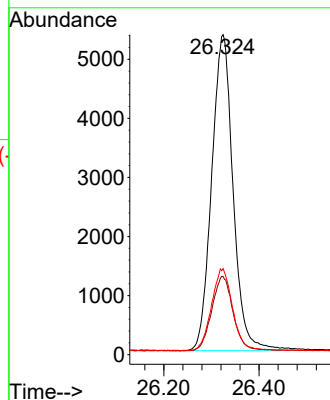
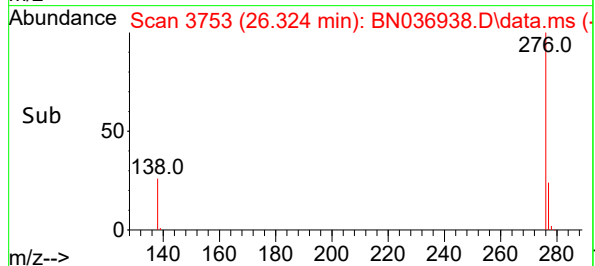
Tgt Ion:276 Resp: 16655

Ion Ratio Lower Upper

276 100

277 24.5 20.2 30.2

138 26.9 21.9 32.9





# CALIBRATION SUMMARY

Method Path : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\  
 Method File : 8270-SIM-BN042825.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 Last Update : Mon Apr 28 15:35:03 2025  
 Response Via : Initial Calibration

## Calibration Files

0.1 =BN036923.D 0.2 =BN036924.D 0.4 =BN036925.D 0.8 =BN036926.D 1.6 =BN036927.D 3.2 =BN036928.D 5.0 =BN036929.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           | 0.452          | 0.489 | 0.551 | 0.506 | 0.537 | 0.489 | 0.465 | 0.498 | 7.23  |
| 3)       | n-Nitrosodimet...     | 0.903          | 0.998 | 1.010 | 0.957 | 1.034 | 0.952 | 0.918 | 0.967 | 5.01  |
| 4) S     | 2-Fluorophenol        | 1.050          | 1.056 | 1.118 | 0.946 | 1.040 | 0.982 | 0.970 | 1.023 | 5.86  |
| 5) S     | Phenol-d6             | 1.270          | 1.237 | 1.337 | 1.151 | 1.294 | 1.255 | 1.272 | 1.259 | 4.57  |
| 6)       | bis(2-Chloroet...     | 1.174          | 1.123 | 1.170 | 1.139 | 1.240 | 1.162 | 1.162 | 1.167 | 3.17  |
|          |                       |                |       |       |       |       |       |       |       |       |
| 7) I     | Naphthalene-d8        | -----ISTD----- |       |       |       |       |       |       |       |       |
| 8) S     | Nitrobenzene-d5       | 0.400          | 0.401 | 0.411 | 0.404 | 0.446 | 0.432 | 0.436 | 0.418 | 4.52  |
| 9)       | Naphthalene           | 1.155          | 1.147 | 1.155 | 1.132 | 1.225 | 1.170 | 1.165 | 1.164 | 2.56  |
| 10)      | Hexachlorobuta...     | 0.260          | 0.250 | 0.253 | 0.249 | 0.262 | 0.248 | 0.240 | 0.252 | 2.99  |
| 11) SURR | 2-Methylnaphth...     | 0.540          | 0.532 | 0.541 | 0.543 | 0.596 | 0.575 | 0.589 | 0.559 | 4.75  |
| 12)      | 2-Methylnaphth...     | 0.716          | 0.713 | 0.719 | 0.735 | 0.804 | 0.782 | 0.798 | 0.753 | 5.41  |
|          |                       |                |       |       |       |       |       |       |       |       |
| 13) I    | Acenaphthene-d10      | -----ISTD----- |       |       |       |       |       |       |       |       |
| 14) S    | 2,4,6-Tribromo...     | 0.156          | 0.173 | 0.177 | 0.175 | 0.187 | 0.184 | 0.196 | 0.178 | 7.18  |
| 15) S    | 2-Fluorobiphenyl      | 1.877          | 1.975 | 2.055 | 1.690 | 2.023 | 1.986 | 1.928 | 1.933 | 6.32  |
| 16)      | Acenaphthylene        | 1.876          | 1.850 | 1.907 | 1.884 | 2.067 | 2.035 | 2.066 | 1.955 | 4.93  |
| 17)      | Acenaphthene          | 1.264          | 1.270 | 1.275 | 1.248 | 1.333 | 1.295 | 1.305 | 1.284 | 2.22  |
| 18)      | Fluorene              | 1.604          | 1.612 | 1.624 | 1.658 | 1.788 | 1.720 | 1.752 | 1.680 | 4.39  |
|          |                       |                |       |       |       |       |       |       |       |       |
| 19) I    | Phenanthrene-d10      | -----ISTD----- |       |       |       |       |       |       |       |       |
| 20)      | 4,6-Dinitro-2-...     | 0.083          | 0.090 | 0.096 | 0.113 | 0.120 | 0.134 | 0.106 |       | 18.55 |
| 21)      | 4-Bromophenyl-...     | 0.260          | 0.263 | 0.262 | 0.260 | 0.282 | 0.272 | 0.270 | 0.267 | 3.11  |
| 22)      | Hexachlorobenzene     | 0.301          | 0.289 | 0.300 | 0.280 | 0.303 | 0.293 | 0.282 | 0.293 | 3.18  |
| 23)      | Atrazine              | 0.193          | 0.198 | 0.199 | 0.217 | 0.227 | 0.226 | 0.248 | 0.215 | 9.20  |
| 24)      | Pentachlorophenol     | 0.160          | 0.136 | 0.144 | 0.145 | 0.163 | 0.168 | 0.181 | 0.157 | 10.06 |
| 25)      | Phenanthrene          | 1.309          | 1.274 | 1.299 | 1.280 | 1.387 | 1.346 | 1.347 | 1.320 | 3.13  |
| 26)      | Anthracene            | 1.131          | 1.108 | 1.147 | 1.138 | 1.275 | 1.261 | 1.299 | 1.194 | 6.74  |
| 27) SURR | Fluoranthene-d10      | 0.993          | 1.004 | 0.991 | 1.016 | 1.087 | 1.053 | 1.115 | 1.037 | 4.74  |
| 28)      | Fluoranthene          | 1.387          | 1.380 | 1.399 | 1.471 | 1.578 | 1.530 | 1.613 | 1.480 | 6.46  |
|          |                       |                |       |       |       |       |       |       |       |       |
| 29) I    | Chrysene-d12          | -----ISTD----- |       |       |       |       |       |       |       |       |
| 30)      | Pyrene                | 1.919          | 1.942 | 1.958 | 1.802 | 2.073 | 1.969 | 1.823 | 1.927 | 4.77  |
| 31) S    | Terphenyl-d14         | 0.974          | 0.942 | 0.946 | 0.893 | 1.005 | 0.952 | 0.897 | 0.944 | 4.22  |
| 32)      | Benzo(a)anthra...     | 1.402          | 1.407 | 1.429 | 1.422 | 1.583 | 1.509 | 1.561 | 1.473 | 5.19  |
| 33)      | Chrysene              | 1.517          | 1.576 | 1.637 | 1.582 | 1.700 | 1.572 | 1.536 | 1.589 | 3.91  |
| 34)      | Bis(2-ethylhex...     | 0.949          | 0.847 | 0.834 | 0.784 | 0.804 | 0.782 | 0.866 | 0.838 | 6.96  |
|          |                       |                |       |       |       |       |       |       |       |       |
| 35) I    | Perylene-d12          | -----ISTD----- |       |       |       |       |       |       |       |       |

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

Method File : 8270-SIM-BN042825.M

|       |                   |       |       |       |       |       |       |       |       |      |
|-------|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| 36)   | Indeno(1,2,3-c... | 1.595 | 1.571 | 1.712 | 1.503 | 1.720 | 1.724 | 1.609 | 1.634 | 5.29 |
| 37)   | Benzo(b)fluora... | 1.580 | 1.552 | 1.634 | 1.628 | 1.796 | 1.758 | 1.825 | 1.682 | 6.50 |
| 38)   | Benzo(k)fluora... | 1.601 | 1.569 | 1.648 | 1.641 | 1.812 | 1.784 | 1.785 | 1.691 | 5.89 |
| 39) C | Benzo(a)pyrene    | 1.315 | 1.301 | 1.361 | 1.315 | 1.463 | 1.447 | 1.477 | 1.383 | 5.57 |
| 40)   | Dibenzo(a,h)an... | 1.229 | 1.241 | 1.349 | 1.176 | 1.357 | 1.379 | 1.268 | 1.286 | 5.96 |
| 41)   | Benzo(g,h,i)pe... | 1.459 | 1.405 | 1.515 | 1.305 | 1.495 | 1.470 | 1.339 | 1.427 | 5.61 |

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

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN042825\  
 Data File : BN036923.D  
 Acq On : 28 Apr 2025 11:35  
 Operator : RC/JU  
 Sample : SSTDICC0.1  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC0.1

Manual Integrations  
 APPROVED

Reviewed By :Rahul Chavli 04/29/2025  
 Supervised By :Jagrut Upadhyay 04/29/2025

Quant Time: Apr 28 15:11:53 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN042825.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Apr 28 15:11:09 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.633  | 152  | 2671     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.415 | 136  | 6571     | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 14.277 | 164  | 3486     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 17.021 | 188  | 6515     | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 21.215 | 240  | 4809     | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.427 | 264  | 4185     | 0.400 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.220  | 112  | 701      | 0.102 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.802  | 99   | 848      | 0.101 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.781  | 82   | 657      | 0.096 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 12.011 | 152  | 887      | 0.097 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.767 | 330  | 136      | 0.089 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.898 | 172  | 1636     | 0.097 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 19.059 | 212  | 1617     | 0.097 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.662 | 244  | 1171     | 0.102 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| Target Compounds              |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.155  | 88   | 302m     | 0.090 | ng    |          |
| 3) n-Nitrosodimethylamine     | 3.473  | 42   | 603      | 0.093 | ng    | # 92     |
| 6) bis(2-Chloroethyl)ether    | 7.062  | 93   | 784      | 0.101 | ng    | 98       |
| 9) Naphthalene                | 10.458 | 128  | 1897     | 0.099 | ng    | # 93     |
| 10) Hexachlorobutadiene       | 10.756 | 225  | 427      | 0.102 | ng    | # 99     |
| 12) 2-Methylnaphthalene       | 12.082 | 142  | 1176     | 0.096 | ng    | 98       |
| 16) Acenaphthylene            | 13.999 | 152  | 1635     | 0.097 | ng    | 100      |
| 17) Acenaphthene              | 14.341 | 154  | 1102     | 0.099 | ng    | 98       |
| 18) Fluorene                  | 15.325 | 166  | 1398     | 0.096 | ng    | 99       |
| 21) 4-Bromophenyl-phenylether | 16.227 | 248  | 424      | 0.098 | ng    | 95       |
| 22) Hexachlorobenzene         | 16.338 | 284  | 490      | 0.102 | ng    | 97       |
| 23) Atrazine                  | 16.500 | 200  | 314      | 0.092 | ng    | # 92     |
| 24) Pentachlorophenol         | 16.686 | 266  | 261      | 0.105 | ng    | 92       |
| 25) Phenanthrene              | 17.058 | 178  | 2132     | 0.099 | ng    | 98       |
| 26) Anthracene                | 17.157 | 178  | 1842     | 0.096 | ng    | 100      |
| 28) Fluoranthene              | 19.091 | 202  | 2259     | 0.095 | ng    | 97       |
| 30) Pyrene                    | 19.453 | 202  | 2307     | 0.099 | ng    | 98       |
| 32) Benzo(a)anthracene        | 21.197 | 228  | 1685     | 0.096 | ng    | 96       |
| 33) Chrysene                  | 21.251 | 228  | 1824     | 0.095 | ng    | 96       |
| 34) Bis(2-ethylhexyl)phtha... | 21.144 | 149  | 1141     | 0.114 | ng    | 99       |
| 36) Indeno(1,2,3-cd)pyrene    | 25.646 | 276  | 1669     | 0.097 | ng    | 99       |
| 37) Benzo(b)fluoranthene      | 22.763 | 252  | 1653     | 0.095 | ng    | # 66     |
| 38) Benzo(k)fluoranthene      | 22.810 | 252  | 1675     | 0.096 | ng    | # 63     |
| 39) Benzo(a)pyrene            | 23.330 | 252  | 1376     | 0.096 | ng    | # 61     |
| 40) Dibenzo(a,h)anthracene    | 25.658 | 278  | 1286     | 0.095 | ng    | # 70     |
| 41) Benzo(g,h,i)perylene      | 26.324 | 276  | 1527     | 0.101 | ng    | # 86     |
| -----                         |        |      |          |       |       |          |

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

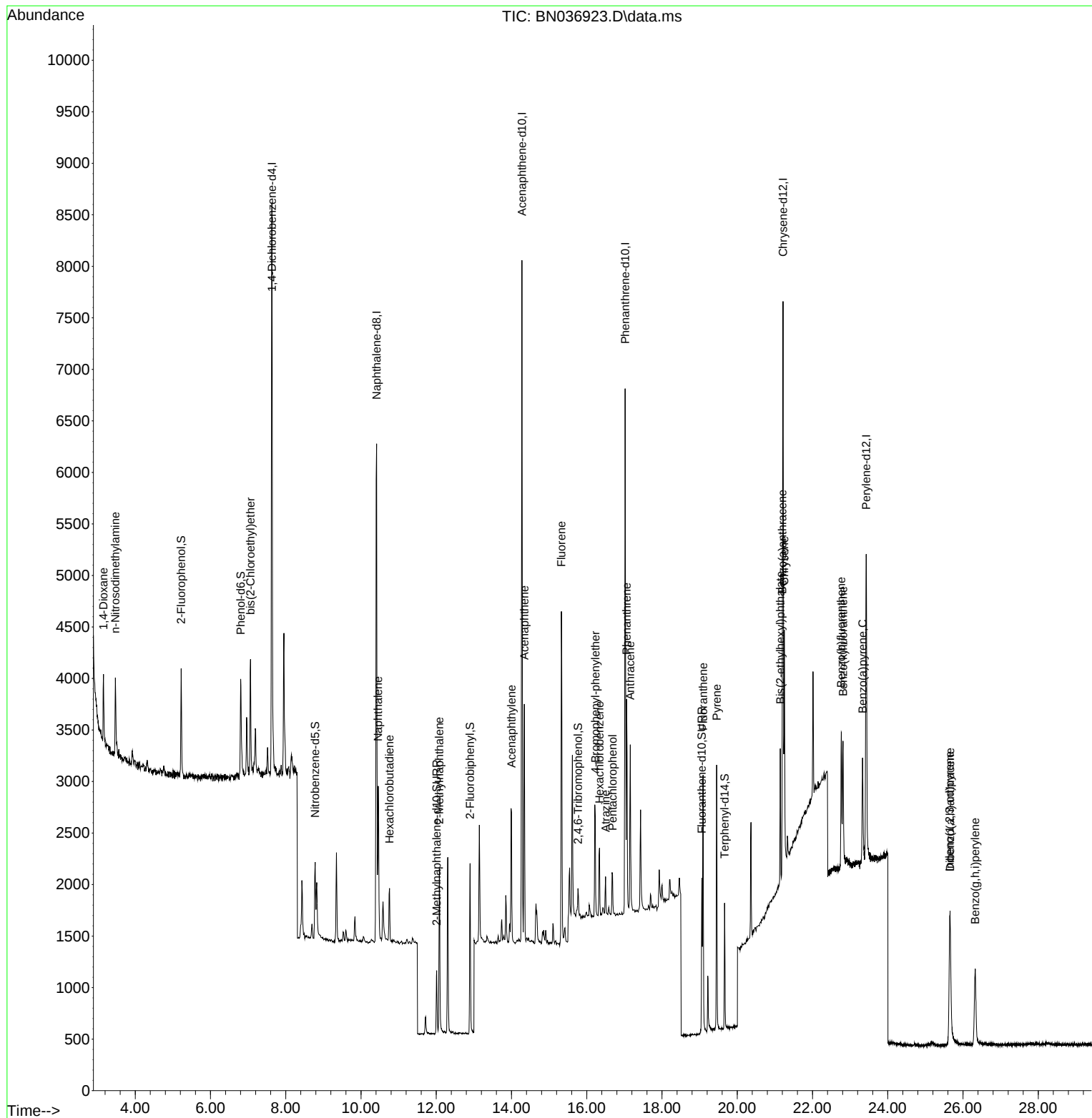
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Data File : BN036923.D  
Acq On : 28 Apr 2025 11:35  
Operator : RC/JU  
Sample : SSTDICC0.1  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

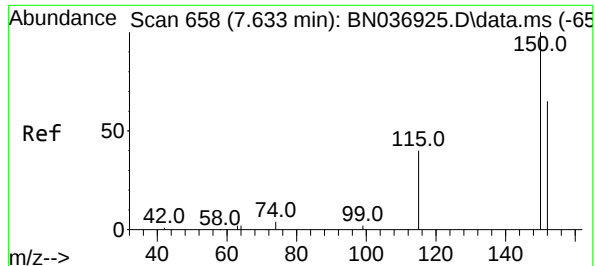
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

Manual Integrations  
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Reviewed By :Rahul Chavli 04/29/2025  
Supervised By :Jagrut Upadhyay 04/29/2025

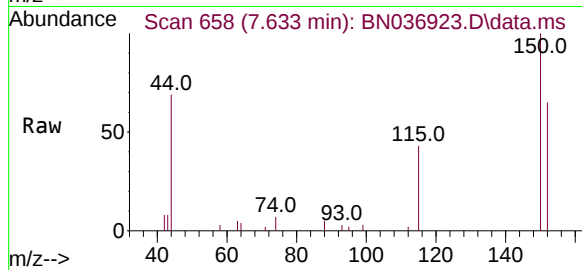
Quant Time: Apr 28 15:11:53 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN042825.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Apr 28 15:11:09 2025  
Response via : Initial Calibration





#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.633 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: BN036923.D  
Acq: 28 Apr 2025 11:35

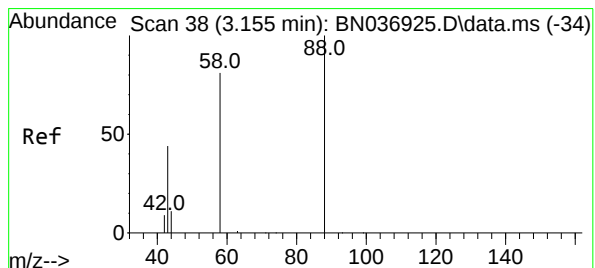
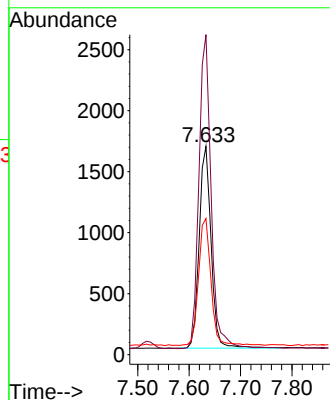
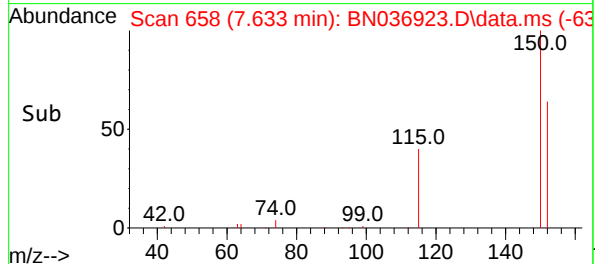
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1



Tgt Ion:152 Resp: 267  
Ion Ratio Lower Upper  
152 100  
150 153.7 121.1 181.7  
115 65.4 51.8 77.6

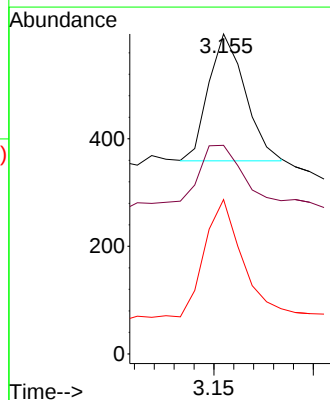
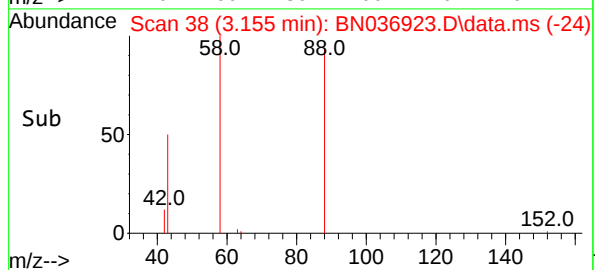
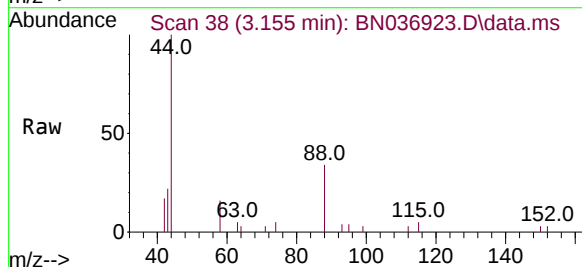
Manual Integrations  
APPROVED

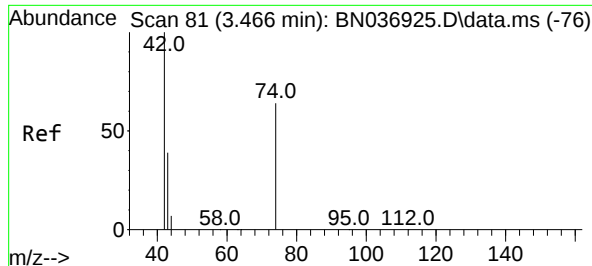
Reviewed By :Rahul Chavli 04/29/2025  
Supervised By :Jagrut Upadhyay 04/29/2025



#2  
1,4-Dioxane  
Concen: 0.090 ng m  
RT: 3.155 min Scan# 38  
Delta R.T. -0.000 min  
Lab File: BN036923.D  
Acq: 28 Apr 2025 11:35

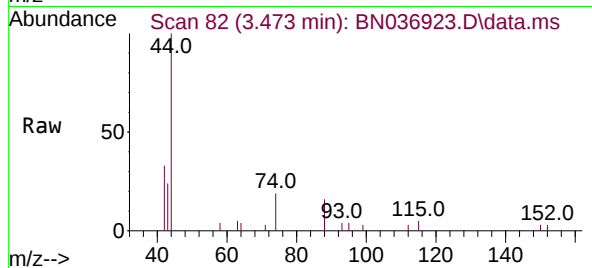
Tgt Ion: 88 Resp: 302  
Ion Ratio Lower Upper  
88 100  
43 74.8 37.9 56.9#  
58 106.0 65.8 98.6#





#3  
n-Nitrosodimethylamine  
Concen: 0.093 ng  
RT: 3.473 min Scan# 81  
Delta R.T. 0.007 min  
Lab File: BN036923.D  
Acq: 28 Apr 2025 11:35

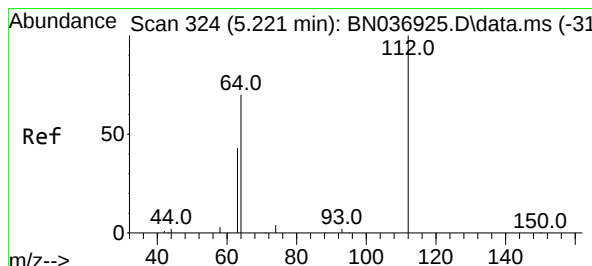
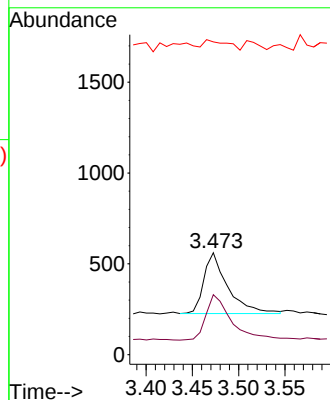
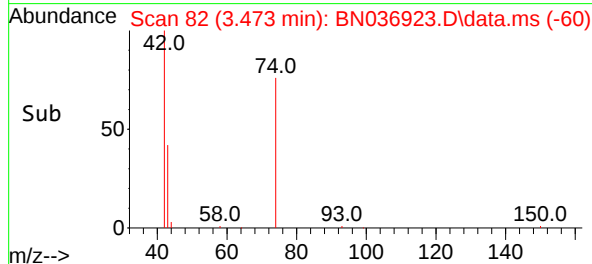
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1



Tgt Ion: 42 Resp: 600  
Ion Ratio Lower Upper  
42 100  
74 80.8 59.9 89.9  
44 15.4 7.5 11.3

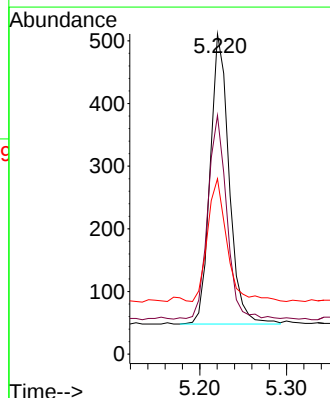
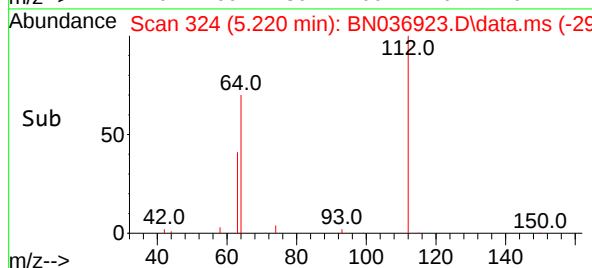
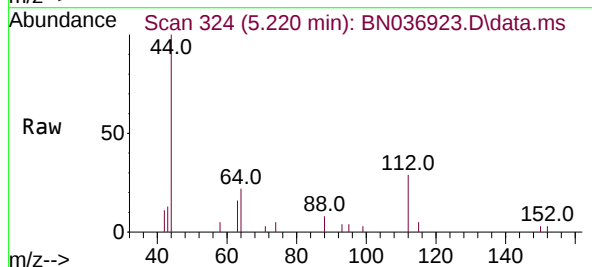
Manual Integrations  
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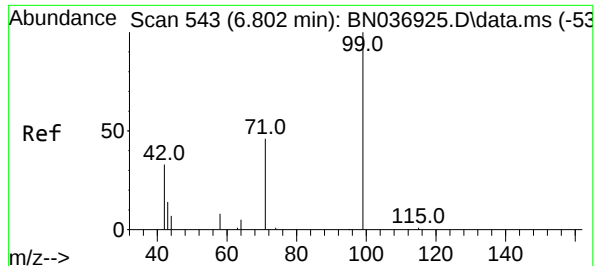
Reviewed By :Rahul Chavli 04/29/2025  
Supervised By :Jagrut Upadhyay 04/29/2025



#4  
2-Fluorophenol  
Concen: 0.102 ng  
RT: 5.220 min Scan# 324  
Delta R.T. -0.000 min  
Lab File: BN036923.D  
Acq: 28 Apr 2025 11:35

Tgt Ion:112 Resp: 701  
Ion Ratio Lower Upper  
112 100  
64 71.9 55.7 83.5  
63 43.5 33.9 50.9





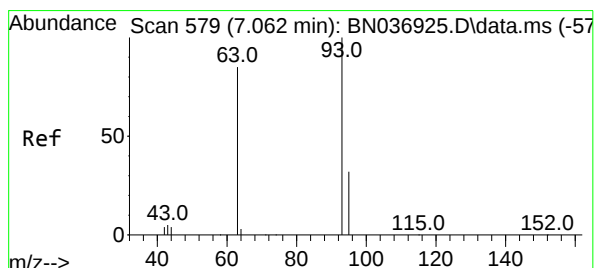
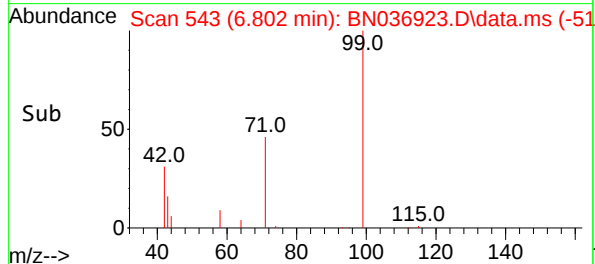
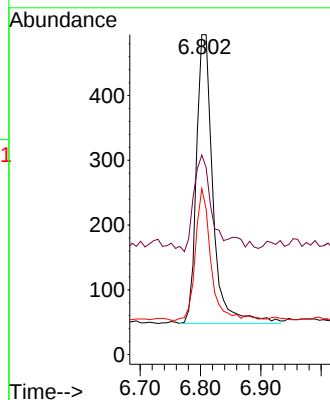
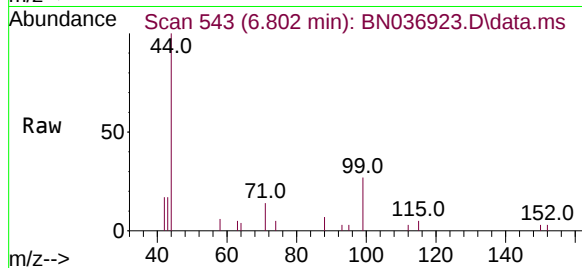
#5  
Phenol-d6  
Concen: 0.101 ng  
RT: 6.802 min Scan# 543  
Delta R.T. -0.000 min  
Lab File: BN036923.D  
Acq: 28 Apr 2025 11:35

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 99      | 100   |       |       |
| 42      | 35.0  | 29.6  | 44.4  |
| 71      | 41.5  | 36.0  | 54.0  |

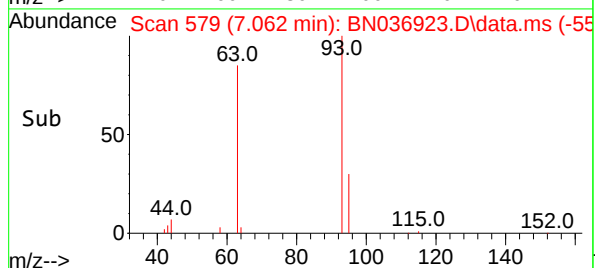
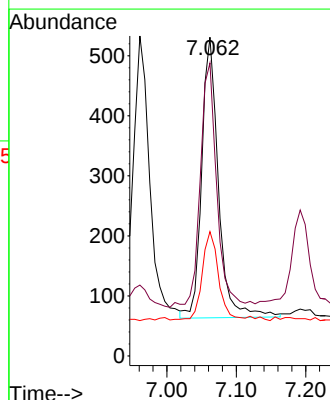
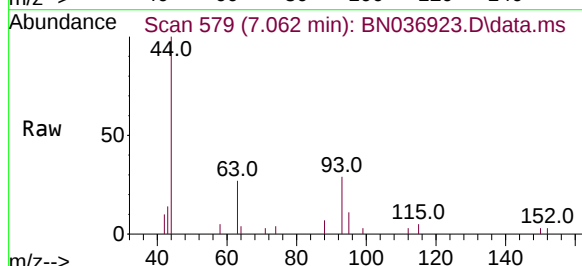
Manual Integrations  
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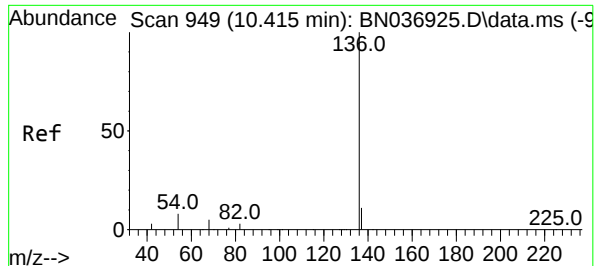
Reviewed By :Rahul Chavli 04/29/2025  
Supervised By :Jagrut Upadhyay 04/29/2025



#6  
bis(2-Chloroethyl)ether  
Concen: 0.101 ng  
RT: 7.062 min Scan# 579  
Delta R.T. -0.000 min  
Lab File: BN036923.D  
Acq: 28 Apr 2025 11:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 93      | 100   |       |       |
| 63      | 85.7  | 69.0  | 103.6 |
| 95      | 29.5  | 25.4  | 38.0  |





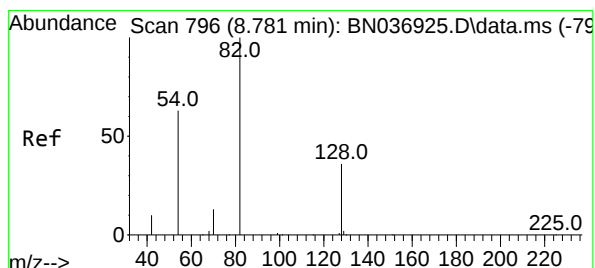
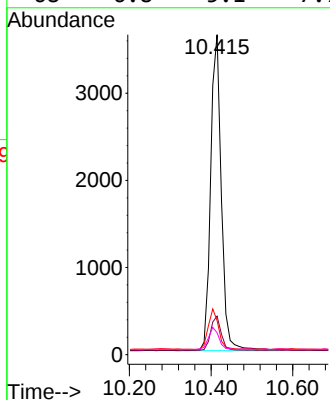
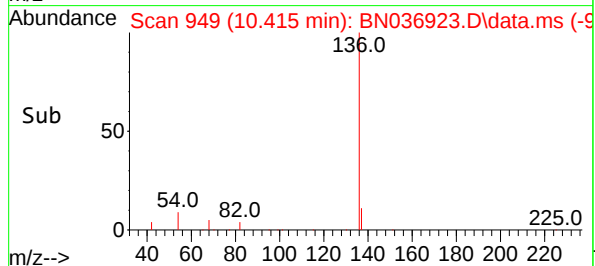
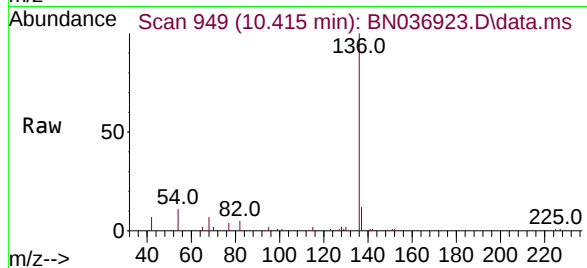
#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.415 min Scan# 949  
Delta R.T. -0.000 min  
Lab File: BN036923.D  
Acq: 28 Apr 2025 11:35

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 136     | 100   |       |       |
| 137     | 12.0  | 9.7   | 14.5  |
| 54      | 10.6  | 8.0   | 12.0  |
| 68      | 6.8   | 5.1   | 7.7   |

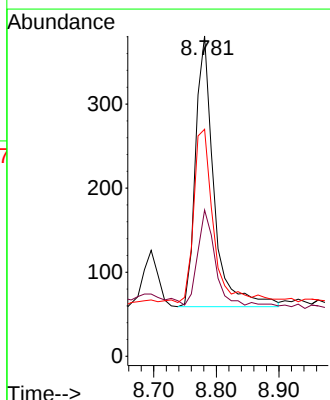
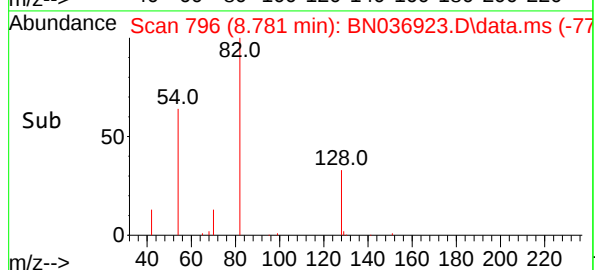
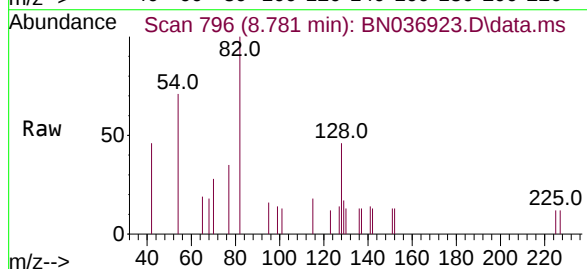
Manual Integrations  
APPROVED

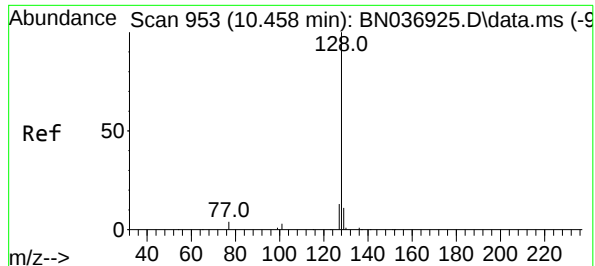
Reviewed By :Rahul Chavli 04/29/2025  
Supervised By :Jagrut Upadhyay 04/29/2025



#8  
Nitrobenzene-d5  
Concen: 0.096 ng  
RT: 8.781 min Scan# 796  
Delta R.T. -0.000 min  
Lab File: BN036923.D  
Acq: 28 Apr 2025 11:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 45.7  | 30.7  | 46.1  |
| 54      | 70.9  | 52.1  | 78.1  |





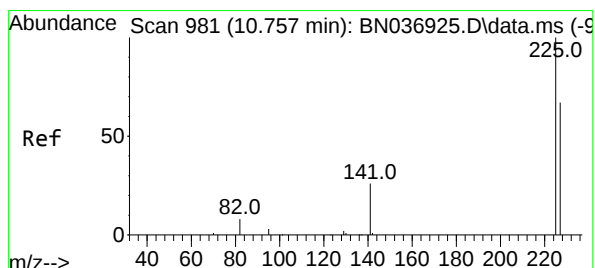
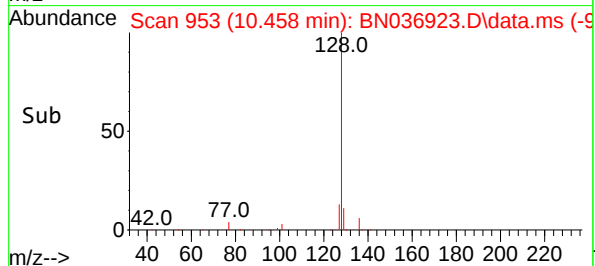
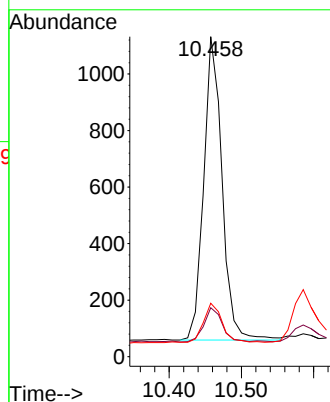
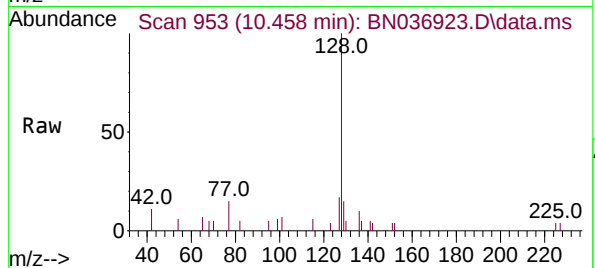
#9  
Naphthalene  
Concen: 0.099 ng  
RT: 10.458 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: BN036923.D  
Acq: 28 Apr 2025 11:35

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

Tgt Ion:128 Resp: 189  
Ion Ratio Lower Upper  
128 100  
129 15.3 9.8 14.6  
127 16.7 11.4 17.2

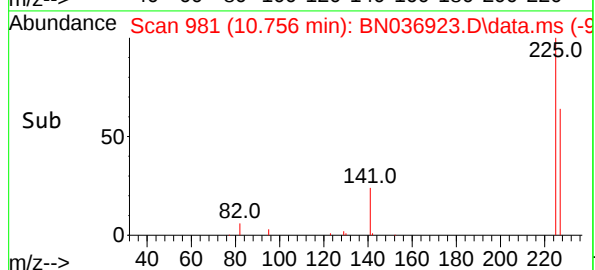
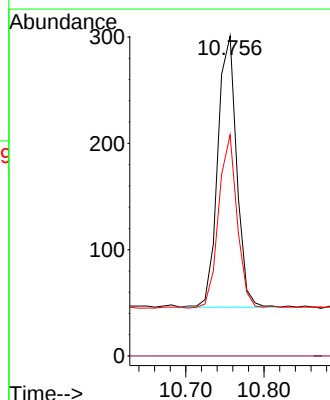
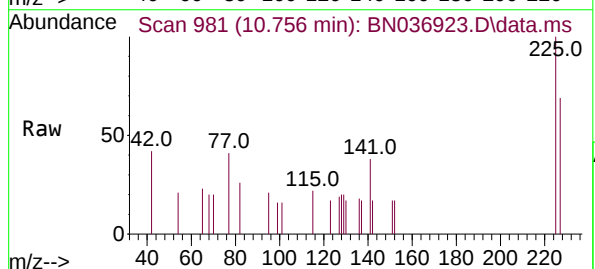
Manual Integrations  
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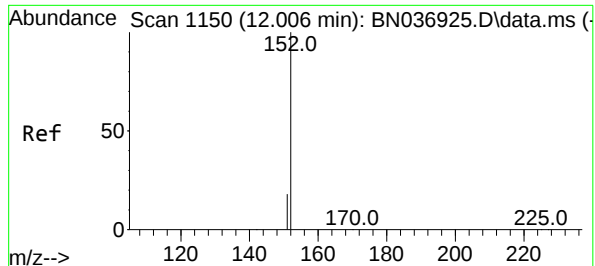
Reviewed By :Rahul Chavli 04/29/2025  
Supervised By :Jagrut Upadhyay 04/29/2025



#10  
Hexachlorobutadiene  
Concen: 0.102 ng  
RT: 10.756 min Scan# 981  
Delta R.T. -0.000 min  
Lab File: BN036923.D  
Acq: 28 Apr 2025 11:35

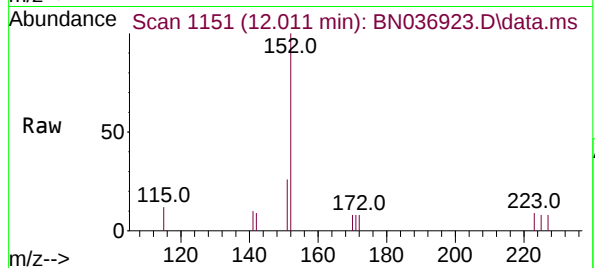
Tgt Ion:225 Resp: 427  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 64.2 52.2 78.4





#11  
2-Methylnaphthalene-d10  
Concen: 0.097 ng  
RT: 12.011 min Scan# 1151  
Delta R.T. 0.005 min  
Lab File: BN036923.D  
Acq: 28 Apr 2025 11:35

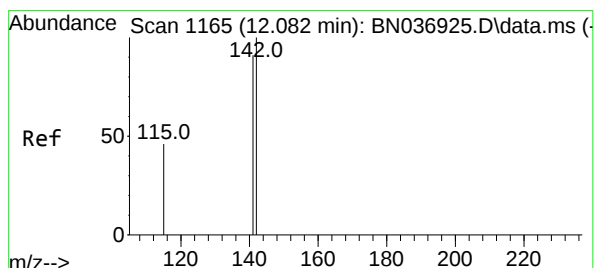
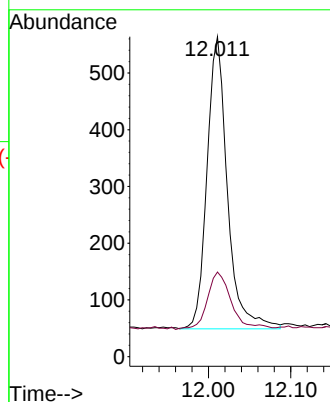
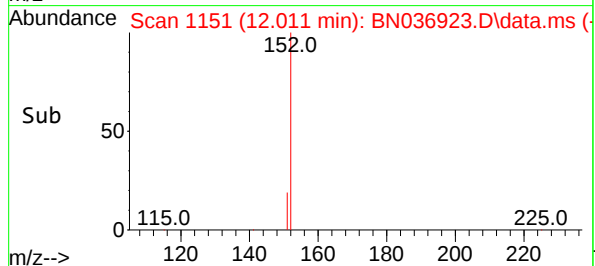
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1



Tgt Ion:152 Resp: 88  
Ion Ratio Lower Upper  
152 100  
151 23.2 16.9 25.3

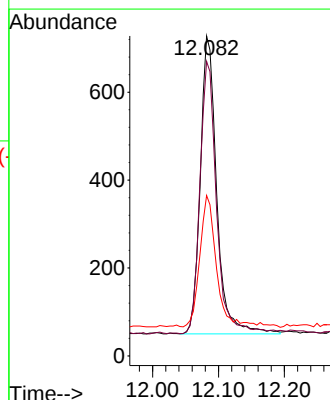
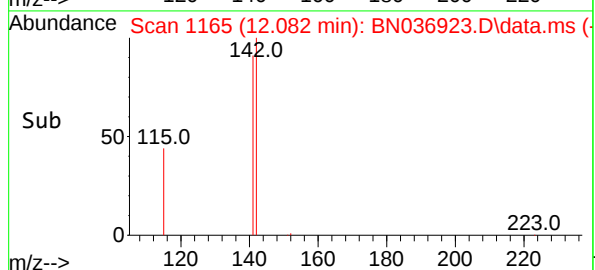
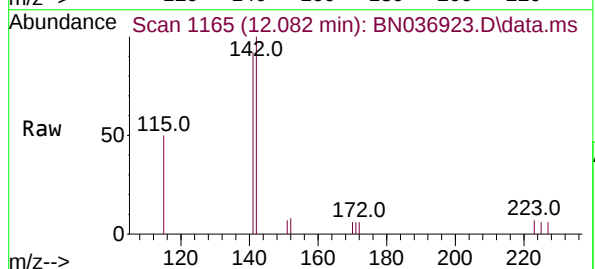
Manual Integrations  
APPROVED

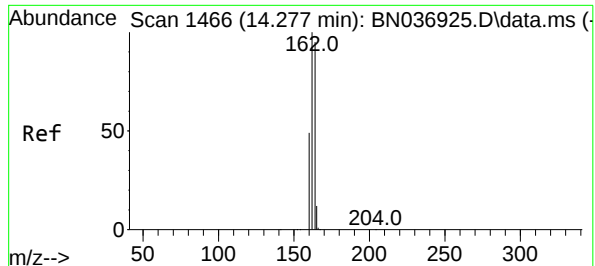
Reviewed By :Rahul Chavli 04/29/2025  
Supervised By :Jagrut Upadhyay 04/29/2025



#12  
2-Methylnaphthalene  
Concen: 0.096 ng  
RT: 12.082 min Scan# 1165  
Delta R.T. -0.000 min  
Lab File: BN036923.D  
Acq: 28 Apr 2025 11:35

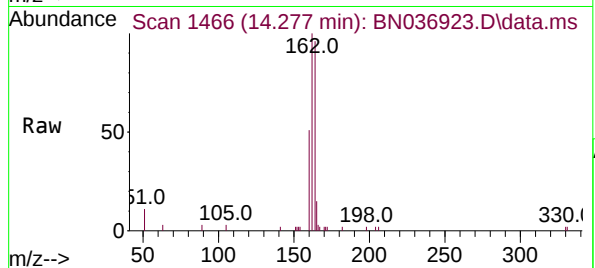
Tgt Ion:142 Resp: 1176  
Ion Ratio Lower Upper  
142 100  
141 92.0 72.8 109.2  
115 50.1 38.2 57.4





#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.277 min Scan# 1466  
Delta R.T. -0.000 min  
Lab File: BN036923.D  
Acq: 28 Apr 2025 11:35

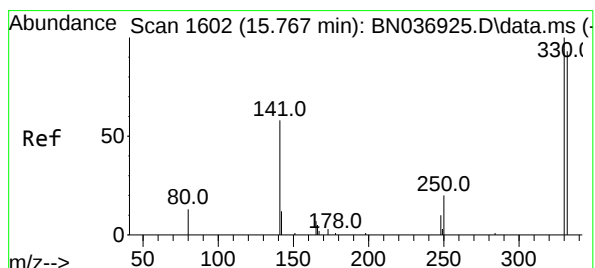
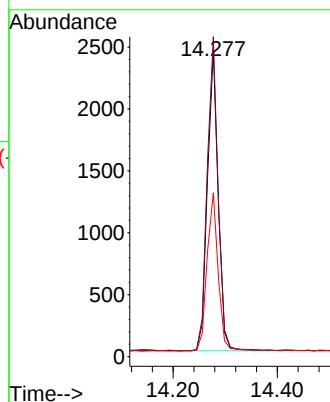
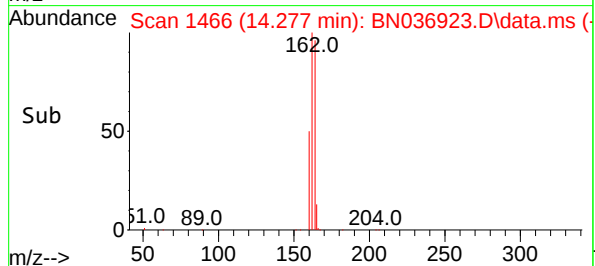
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1



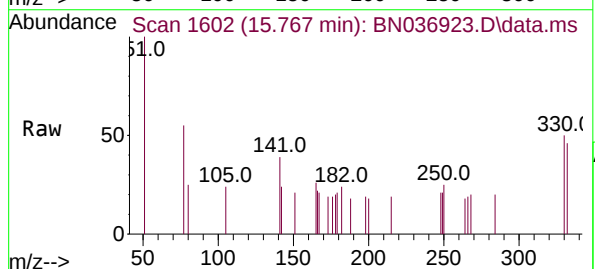
Tgt Ion:164 Resp: 3480  
Ion Ratio Lower Upper  
164 100  
162 104.4 83.8 125.8  
160 53.4 42.0 63.0

Manual Integrations  
APPROVED

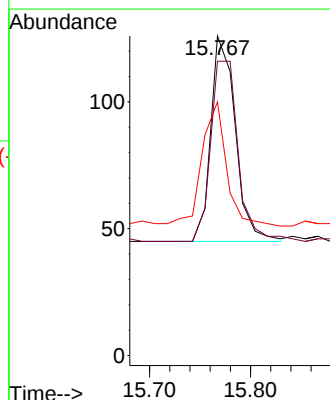
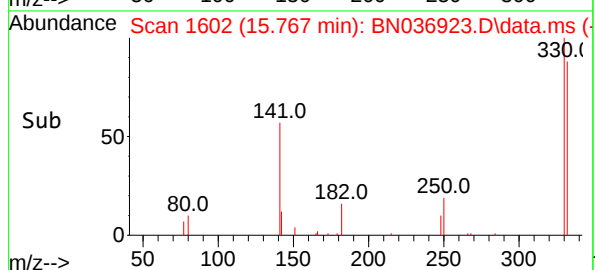
Reviewed By :Rahul Chavli 04/29/2025  
Supervised By :Jagrut Upadhyay 04/29/2025

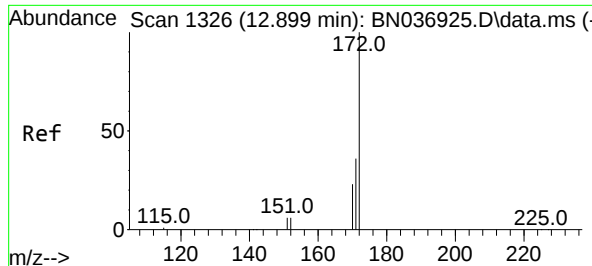


#14  
2,4,6-Tribromophenol  
Concen: 0.089 ng  
RT: 15.767 min Scan# 1602  
Delta R.T. -0.000 min  
Lab File: BN036923.D  
Acq: 28 Apr 2025 11:35



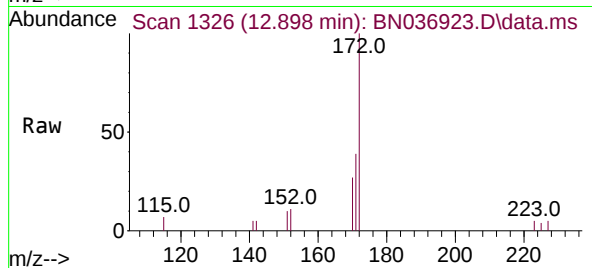
Tgt Ion:330 Resp: 136  
Ion Ratio Lower Upper  
330 100  
332 99.3 76.3 114.5  
141 61.0 45.4 68.2





#15  
2-Fluorobiphenyl  
Concen: 0.097 ng  
RT: 12.898 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: BN036923.D  
Acq: 28 Apr 2025 11:35

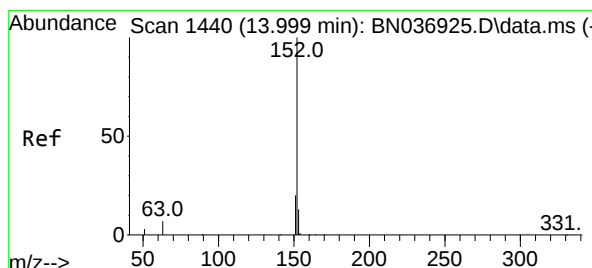
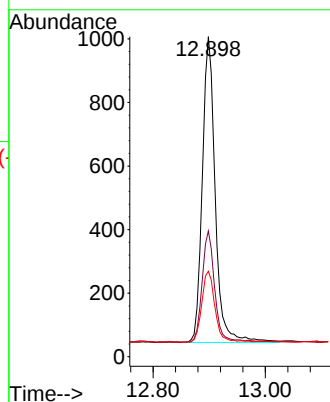
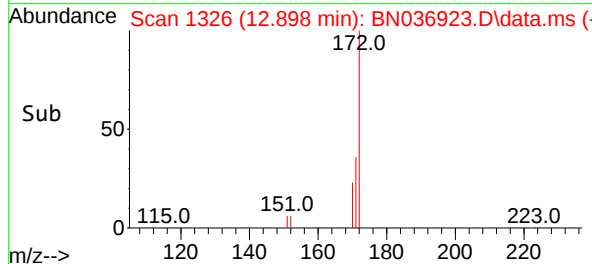
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1



Tgt Ion:172 Resp: 1630  
Ion Ratio Lower Upper  
172 100  
171 39.3 29.4 44.0  
170 26.7 19.4 29.0

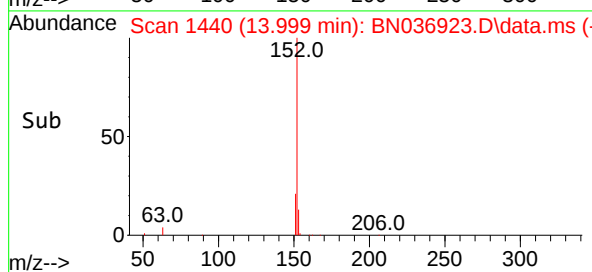
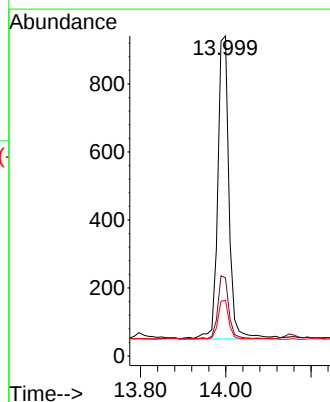
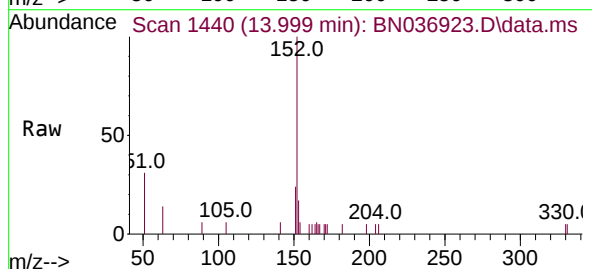
Manual Integrations  
APPROVED

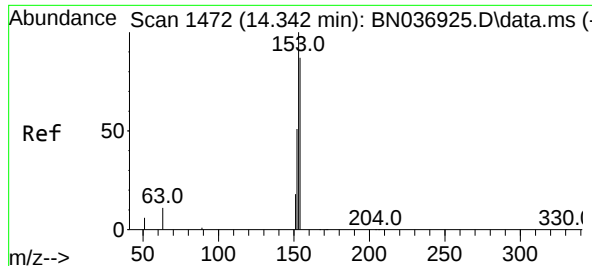
Reviewed By :Rahul Chavli 04/29/2025  
Supervised By :Jagrut Upadhyay 04/29/2025



#16  
Acenaphthylene  
Concen: 0.097 ng  
RT: 13.999 min Scan# 1440  
Delta R.T. -0.000 min  
Lab File: BN036923.D  
Acq: 28 Apr 2025 11:35

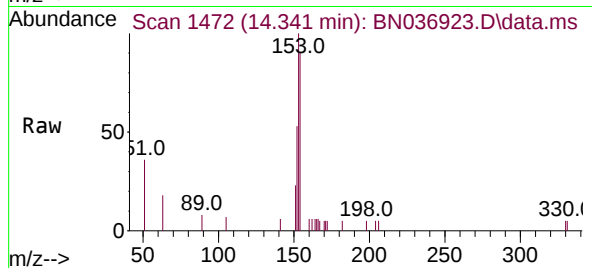
Tgt Ion:152 Resp: 1635  
Ion Ratio Lower Upper  
152 100  
151 20.0 16.0 24.0  
153 12.7 10.2 15.2





#17  
Acenaphthene  
Concen: 0.099 ng  
RT: 14.341 min Scan# 1472  
Delta R.T. -0.000 min  
Lab File: BN036923.D  
Acq: 28 Apr 2025 11:35

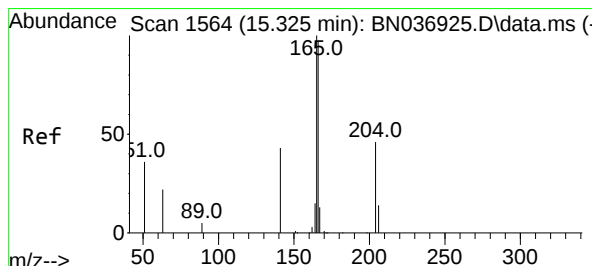
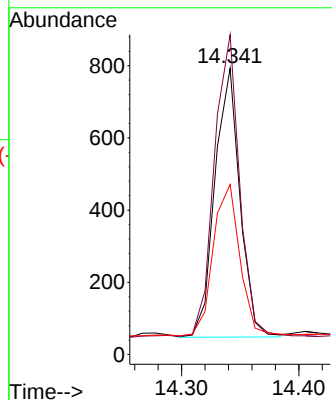
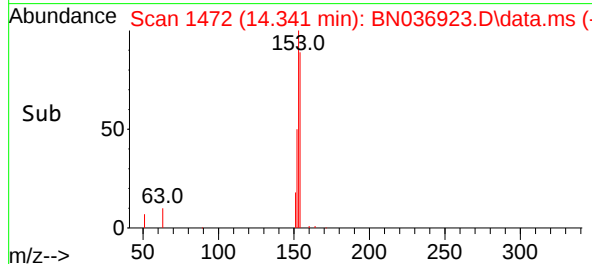
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1



Tgt Ion:154 Resp: 1102  
Ion Ratio Lower Upper  
154 100  
153 115.4 93.4 140.2  
152 60.2 49.5 74.3

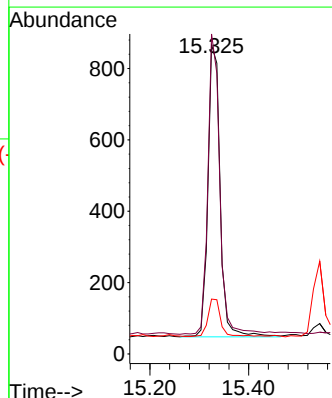
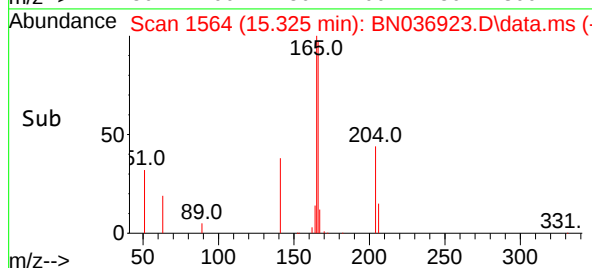
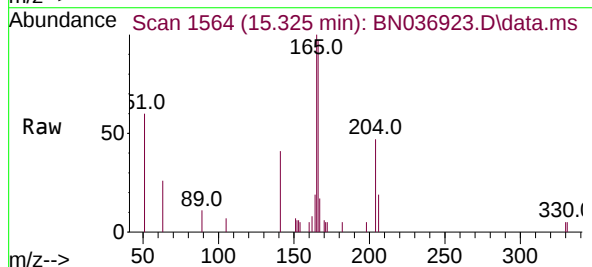
Manual Integrations  
APPROVED

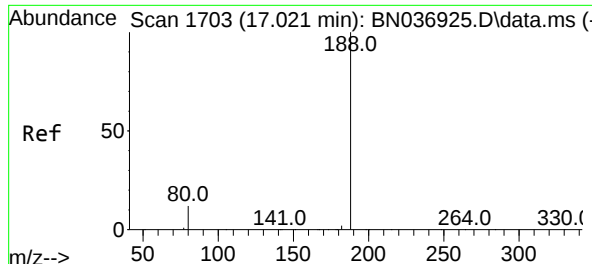
Reviewed By :Rahul Chavli 04/29/2025  
Supervised By :Jagrut Upadhyay 04/29/2025



#18  
Fluorene  
Concen: 0.096 ng  
RT: 15.325 min Scan# 1564  
Delta R.T. -0.000 min  
Lab File: BN036923.D  
Acq: 28 Apr 2025 11:35

Tgt Ion:166 Resp: 1398  
Ion Ratio Lower Upper  
166 100  
165 99.7 80.8 121.2  
167 13.4 10.8 16.2





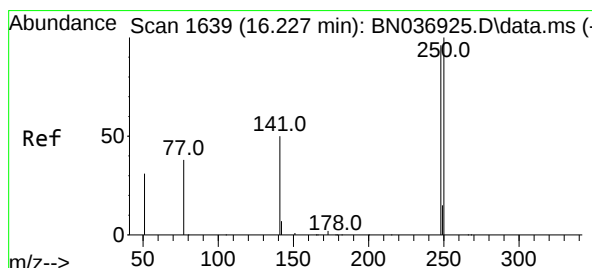
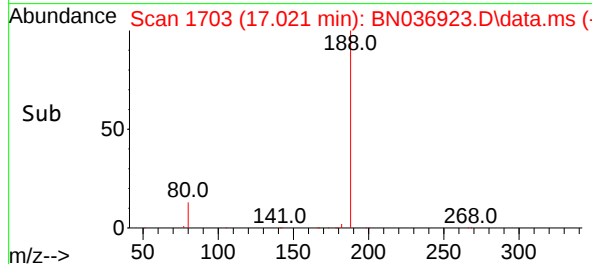
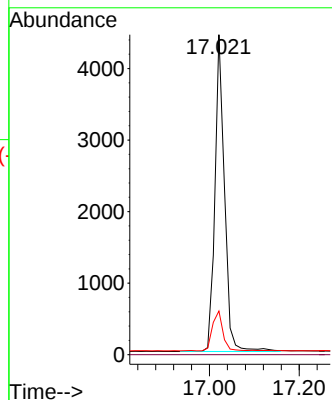
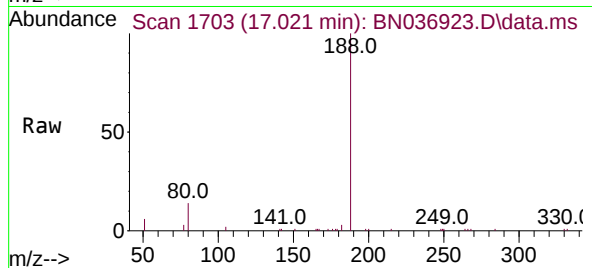
#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 17.021 min Scan# 1703  
Delta R.T. -0.000 min  
Lab File: BN036923.D  
Acq: 28 Apr 2025 11:35

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

Tgt Ion:188 Resp: 651  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 13.7 10.7 16.1

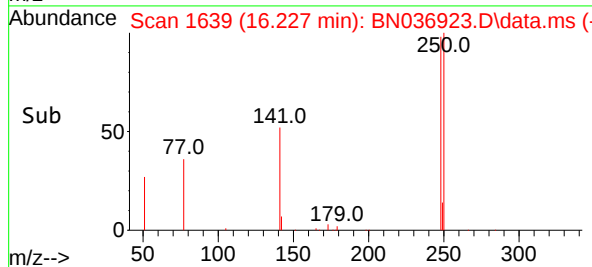
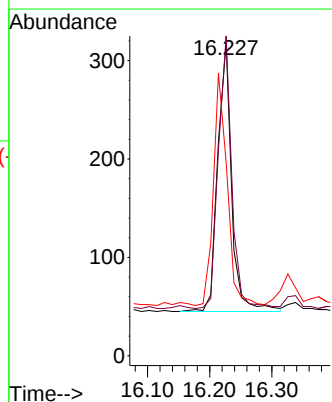
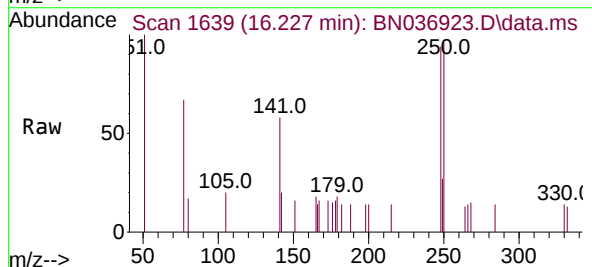
Manual Integrations  
APPROVED

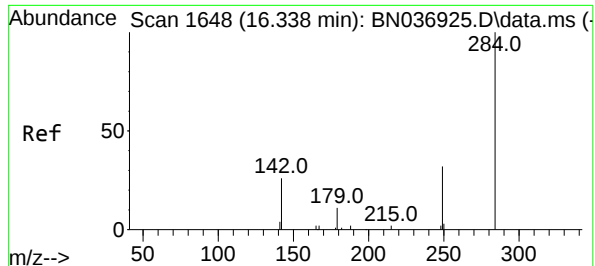
Reviewed By :Rahul Chavli 04/29/2025  
Supervised By :Jagrut Upadhyay 04/29/2025



#21  
4-Bromophenyl-phenylether  
Concen: 0.098 ng  
RT: 16.227 min Scan# 1639  
Delta R.T. -0.000 min  
Lab File: BN036923.D  
Acq: 28 Apr 2025 11:35

Tgt Ion:248 Resp: 424  
Ion Ratio Lower Upper  
248 100  
250 102.2 83.7 125.5  
141 61.9 43.8 65.8





#22

Hexachlorobenzene

Concen: 0.102 ng

RT: 16.338 min Scan# 1648

Delta R.T. -0.000 min

Lab File: BN036923.D

Acq: 28 Apr 2025 11:35

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.1

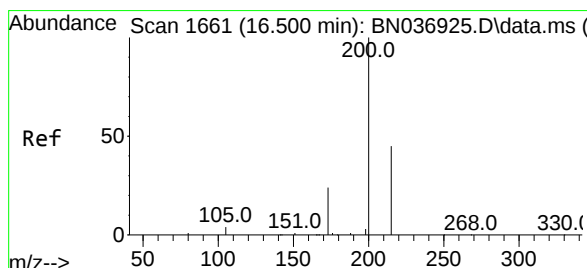
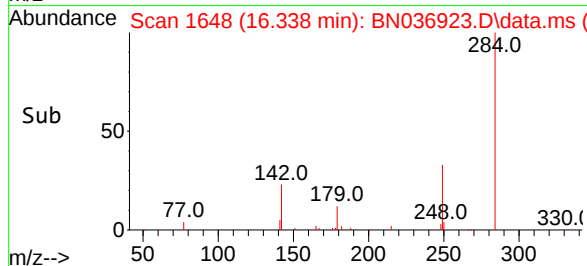
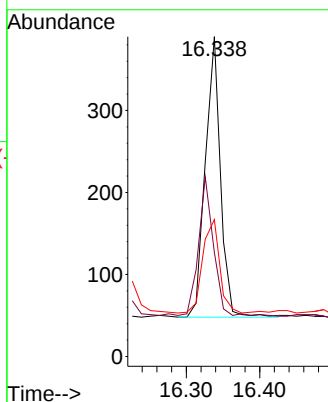
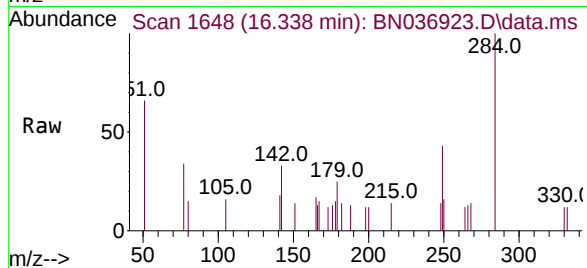
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 284     | 100   |       |       |
| 142     | 51.0  | 40.0  | 60.0  |
| 249     | 37.8  | 28.2  | 42.2  |

Manual Integrations

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Reviewed By :Rahul Chavli 04/29/2025

Supervised By :Jagrut Upadhyay 04/29/2025



#23

Atrazine

Concen: 0.092 ng

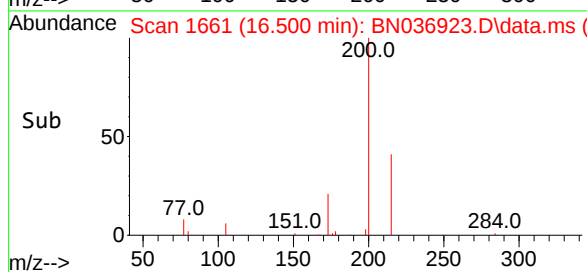
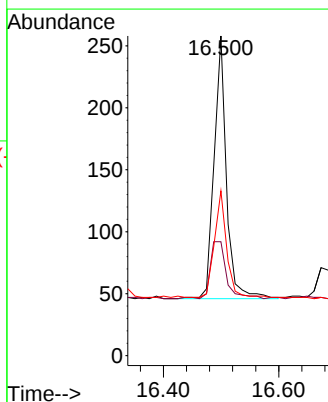
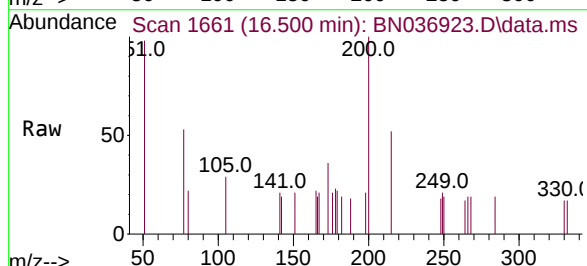
RT: 16.500 min Scan# 1661

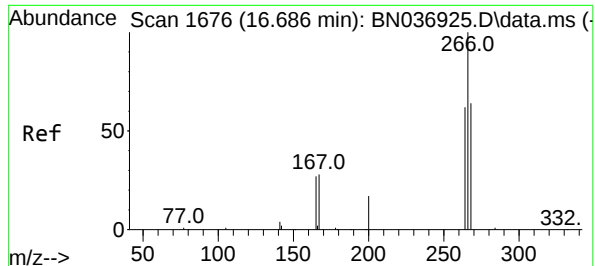
Delta R.T. -0.000 min

Lab File: BN036923.D

Acq: 28 Apr 2025 11:35

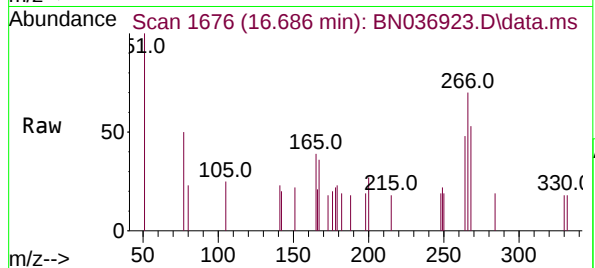
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 200     | 100   |       |       |
| 173     | 35.7  | 22.4  | 33.6  |
| 215     | 51.6  | 38.6  | 57.8  |





#24  
Pentachlorophenol  
Concen: 0.105 ng  
RT: 16.686 min Scan# 1676  
Delta R.T. -0.000 min  
Lab File: BN036923.D  
Acq: 28 Apr 2025 11:35

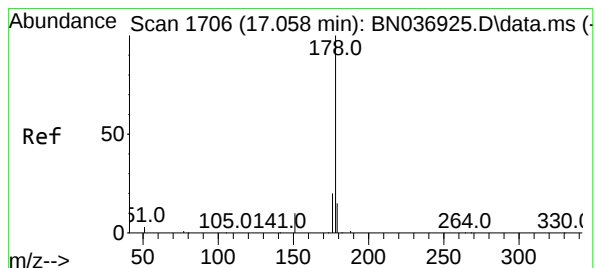
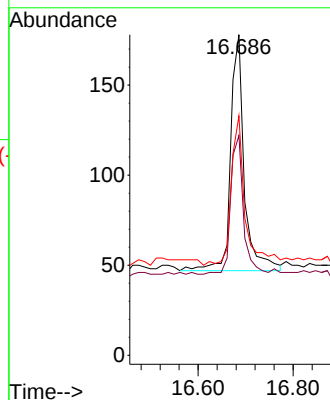
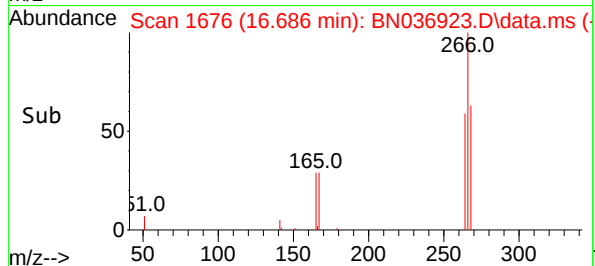
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1



Tgt Ion:266 Resp: 266  
Ion Ratio Lower Upper  
266 100  
264 54.0 49.9 74.9  
268 61.3 52.2 78.4

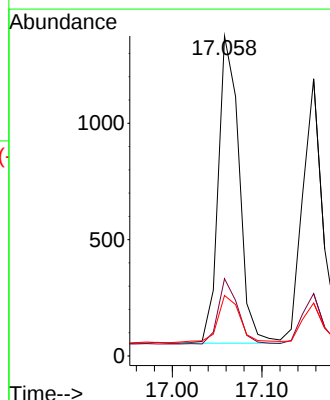
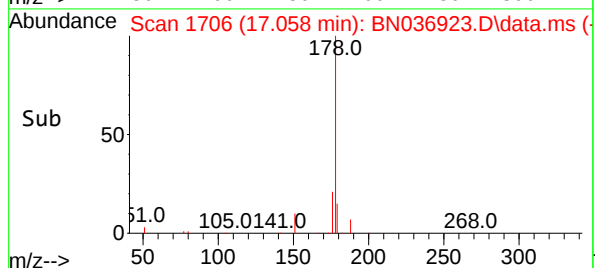
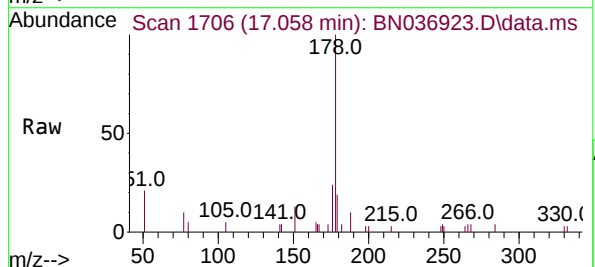
Manual Integrations  
APPROVED

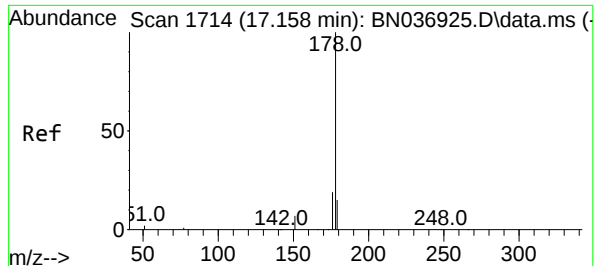
Reviewed By :Rahul Chavli 04/29/2025  
Supervised By :Jagrut Upadhyay 04/29/2025



#25  
Phenanthrene  
Concen: 0.099 ng  
RT: 17.058 min Scan# 1706  
Delta R.T. -0.000 min  
Lab File: BN036923.D  
Acq: 28 Apr 2025 11:35

Tgt Ion:178 Resp: 2132  
Ion Ratio Lower Upper  
178 100  
176 19.9 15.7 23.5  
179 16.7 12.4 18.6





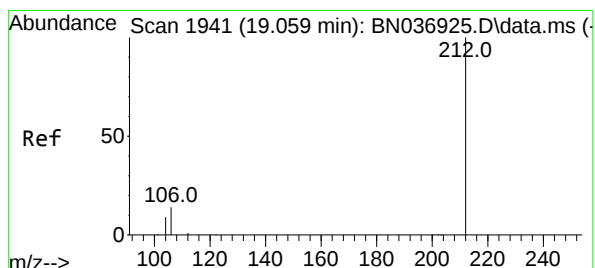
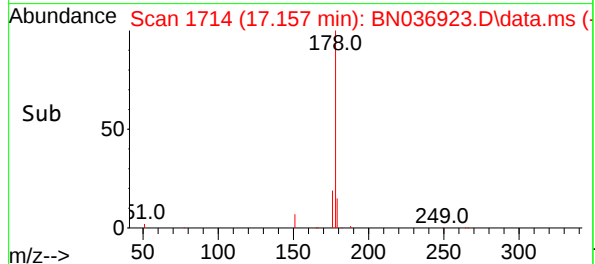
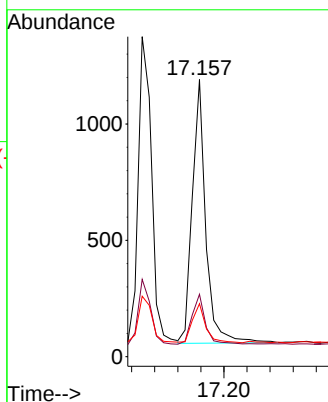
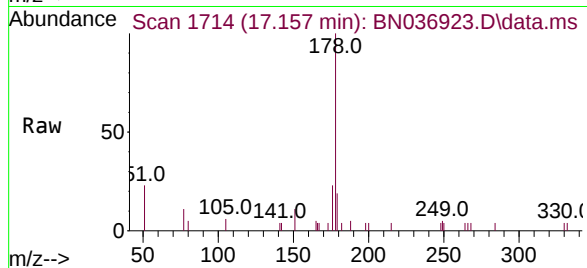
#26  
Anthracene  
Concen: 0.096 ng  
RT: 17.157 min Scan# 1714  
Delta R.T. -0.000 min  
Lab File: BN036923.D  
Acq: 28 Apr 2025 11:35

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

Tgt Ion:178 Resp: 184  
Ion Ratio Lower Upper  
178 100  
176 18.8 15.3 22.9  
179 15.1 12.1 18.1

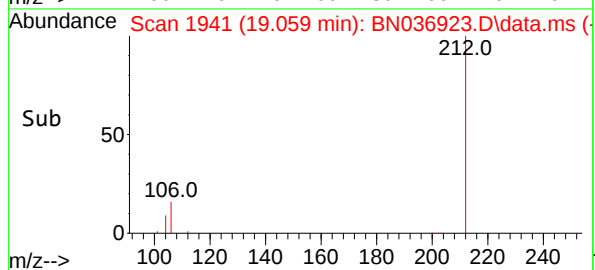
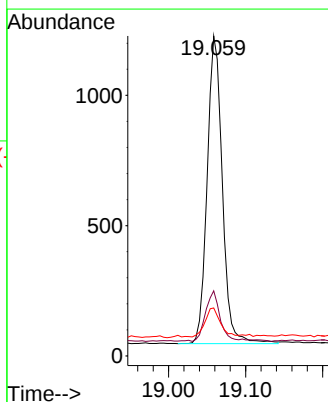
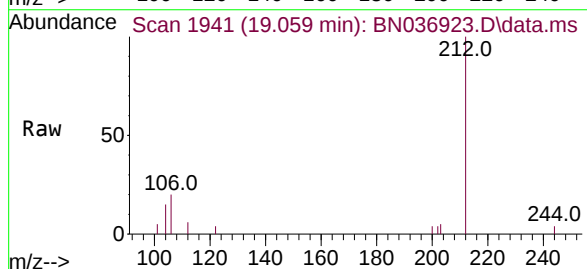
Manual Integrations  
APPROVED

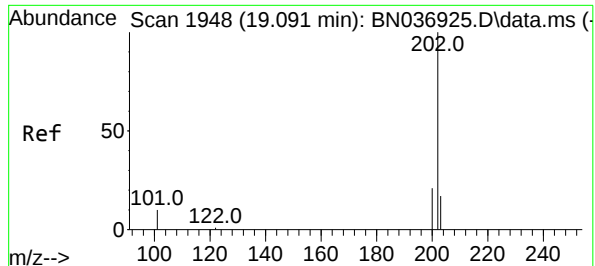
Reviewed By :Rahul Chavli 04/29/2025  
Supervised By :Jagrut Upadhyay 04/29/2025



#27  
Fluoranthene-d10  
Concen: 0.097 ng  
RT: 19.059 min Scan# 1941  
Delta R.T. -0.000 min  
Lab File: BN036923.D  
Acq: 28 Apr 2025 11:35

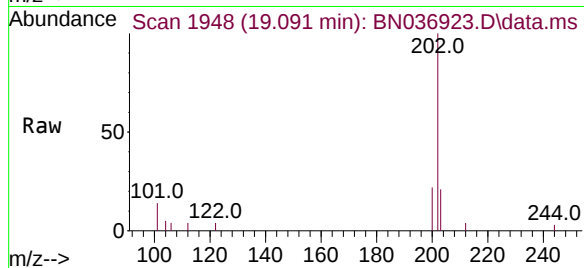
Tgt Ion:212 Resp: 1617  
Ion Ratio Lower Upper  
212 100  
106 16.3 11.6 17.4  
104 9.3 7.0 10.4





#28  
Fluoranthene  
Concen: 0.095 ng  
RT: 19.091 min Scan# 1948  
Delta R.T. -0.000 min  
Lab File: BN036923.D  
Acq: 28 Apr 2025 11:35

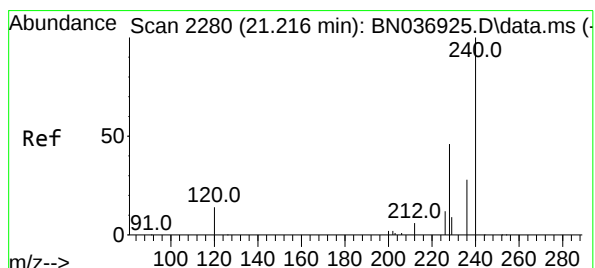
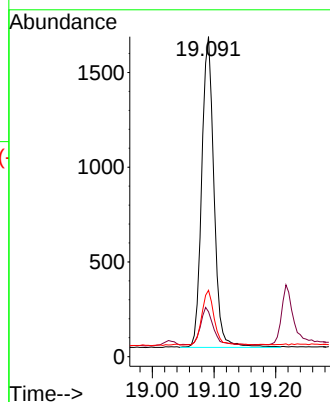
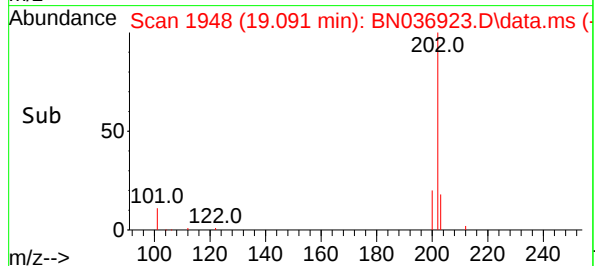
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1



Tgt Ion:202 Resp: 2259  
Ion Ratio Lower Upper  
202 100  
101 12.3 8.5 12.7  
203 17.9 13.7 20.5

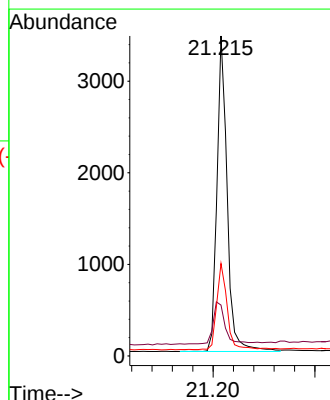
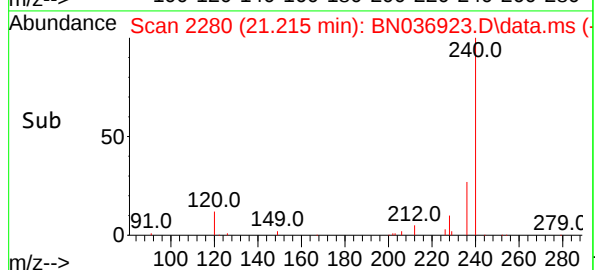
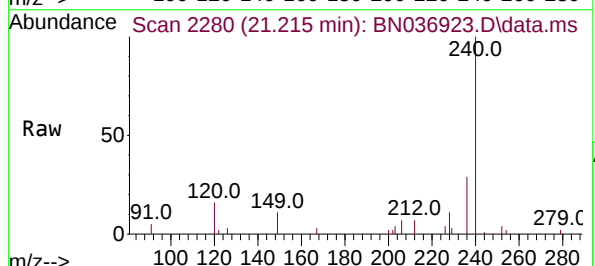
Manual Integrations  
APPROVED

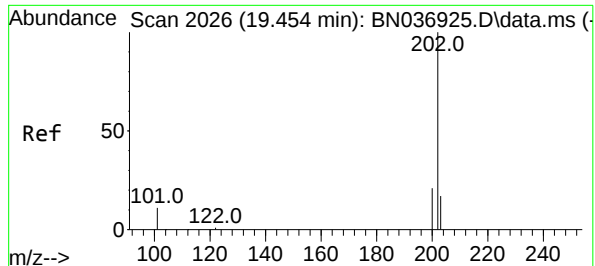
Reviewed By :Rahul Chavli 04/29/2025  
Supervised By :Jagrut Upadhyay 04/29/2025



#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.215 min Scan# 2280  
Delta R.T. -0.000 min  
Lab File: BN036923.D  
Acq: 28 Apr 2025 11:35

Tgt Ion:240 Resp: 4809  
Ion Ratio Lower Upper  
240 100  
120 15.9 14.1 21.1  
236 28.9 23.8 35.8





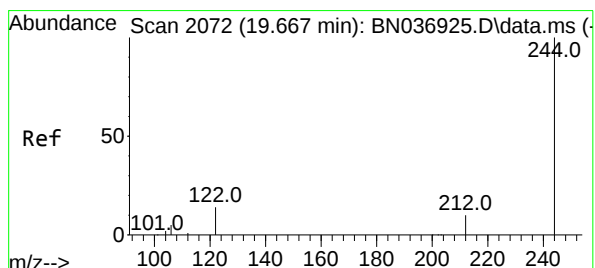
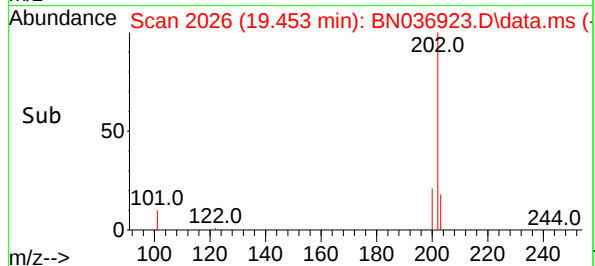
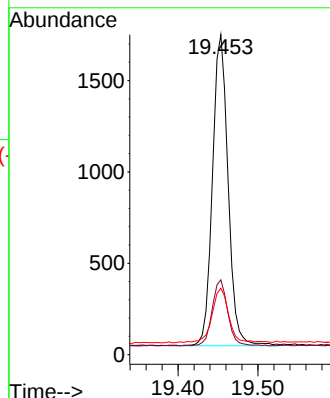
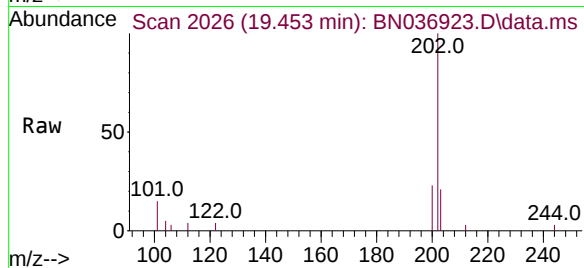
#30  
Pyrene  
Concen: 0.099 ng  
RT: 19.453 min Scan# 2026  
Delta R.T. -0.000 min  
Lab File: BN036923.D  
Acq: 28 Apr 2025 11:35

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

Tgt Ion:202 Resp: 230  
Ion Ratio Lower Upper  
202 100  
200 20.9 17.0 25.6  
203 19.4 14.0 21.0

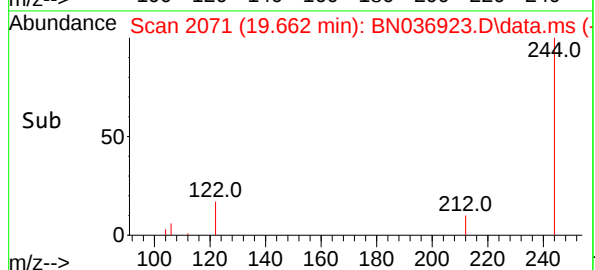
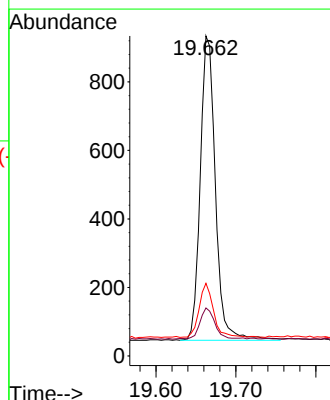
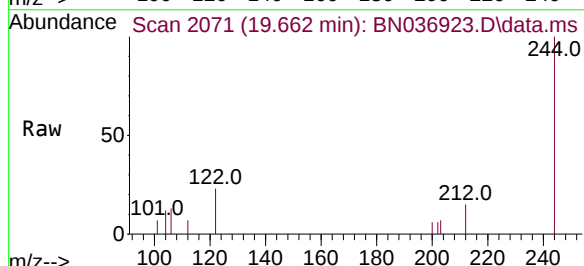
Manual Integrations  
APPROVED

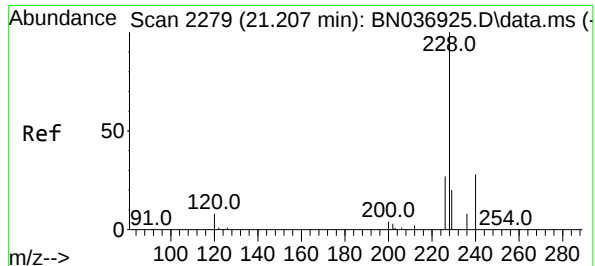
Reviewed By :Rahul Chavli 04/29/2025  
Supervised By :Jagrut Upadhyay 04/29/2025



#31  
Terphenyl-d14  
Concen: 0.102 ng  
RT: 19.662 min Scan# 2071  
Delta R.T. -0.005 min  
Lab File: BN036923.D  
Acq: 28 Apr 2025 11:35

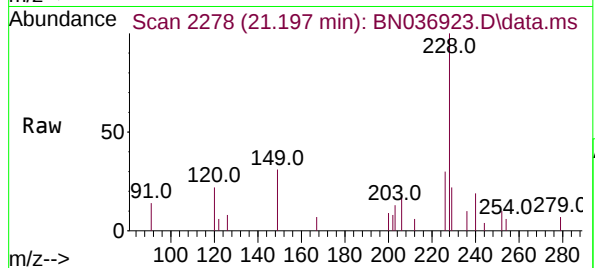
Tgt Ion:244 Resp: 1171  
Ion Ratio Lower Upper  
244 100  
212 15.0 9.6 14.4#  
122 22.7 12.7 19.1#





#32  
Benzo(a)anthracene  
Concen: 0.096 ng  
RT: 21.197 min Scan# 2119  
Delta R.T. -0.009 min  
Lab File: BN036923.D  
Acq: 28 Apr 2025 11:35

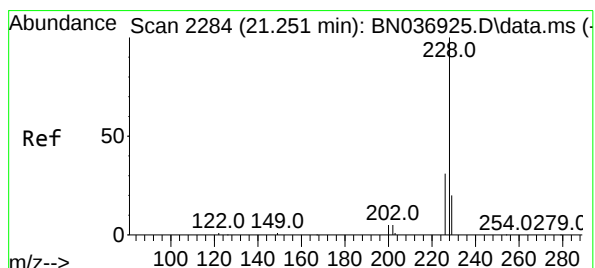
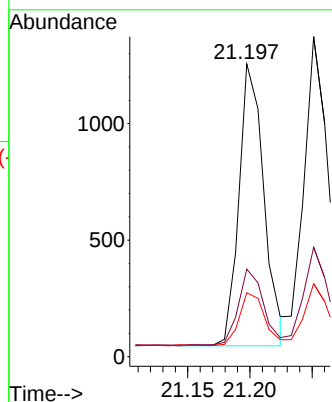
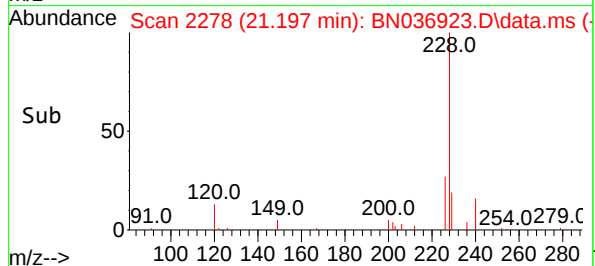
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1



Tgt Ion:228 Resp: 168  
Ion Ratio Lower Upper  
228 100  
226 29.9 22.2 33.4  
229 21.8 16.4 24.6

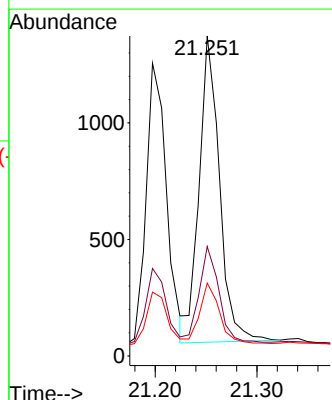
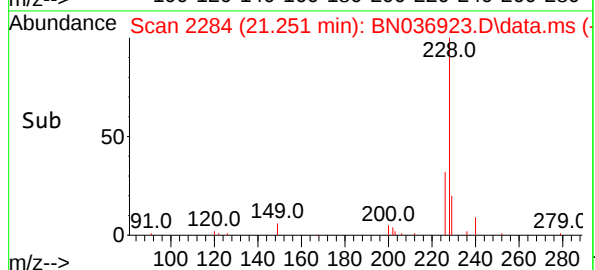
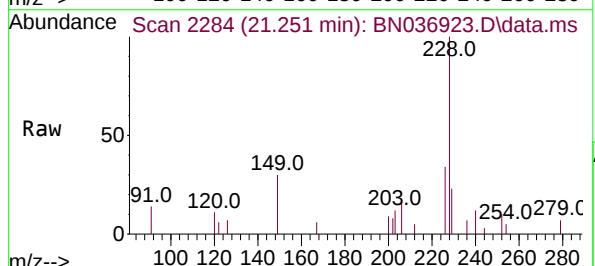
Manual Integrations  
APPROVED

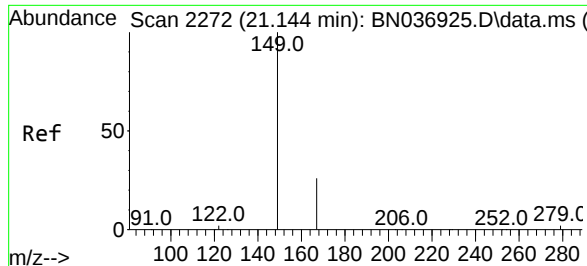
Reviewed By :Rahul Chavli 04/29/2025  
Supervised By :Jagrut Upadhyay 04/29/2025



#33  
Chrysene  
Concen: 0.095 ng  
RT: 21.251 min Scan# 2284  
Delta R.T. -0.000 min  
Lab File: BN036923.D  
Acq: 28 Apr 2025 11:35

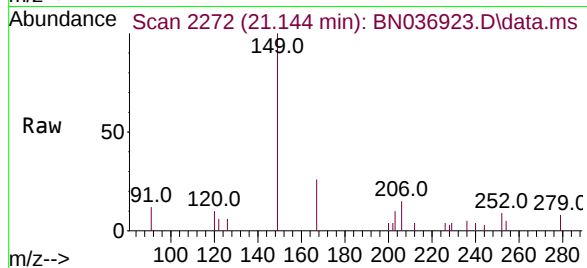
Tgt Ion:228 Resp: 1824  
Ion Ratio Lower Upper  
228 100  
226 34.2 25.5 38.3  
229 22.8 16.5 24.7





#34  
 Bis(2-ethylhexyl)phthalate  
 Concen: 0.114 ng  
 RT: 21.144 min Scan# 2114  
 Delta R.T. -0.000 min  
 Lab File: BN036923.D  
 Acq: 28 Apr 2025 11:35

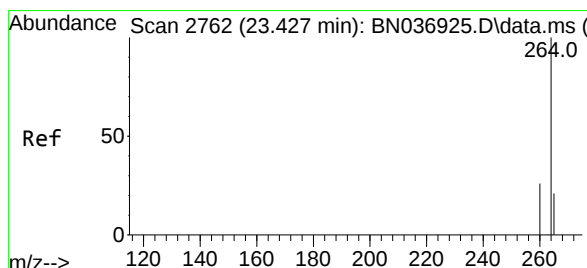
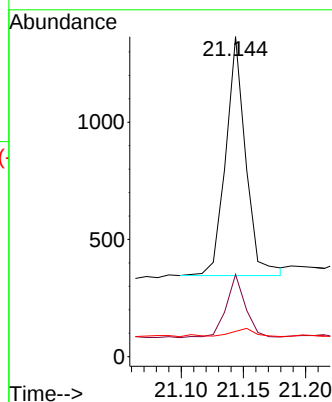
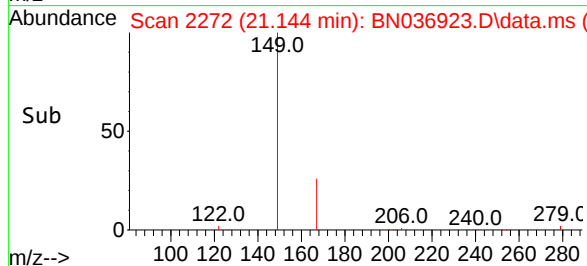
Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC0.1



Tgt Ion:149 Resp: 114  
 Ion Ratio Lower Upper  
 149 100  
 167 25.9 21.0 31.6  
 279 3.7 2.7 4.1

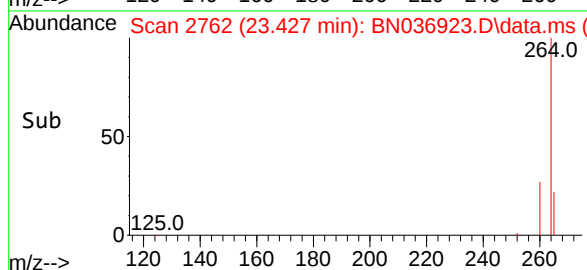
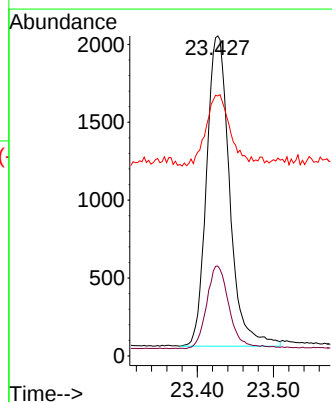
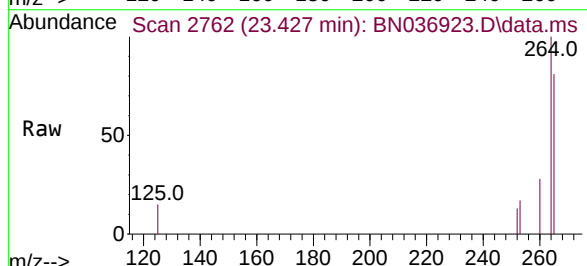
Manual Integrations  
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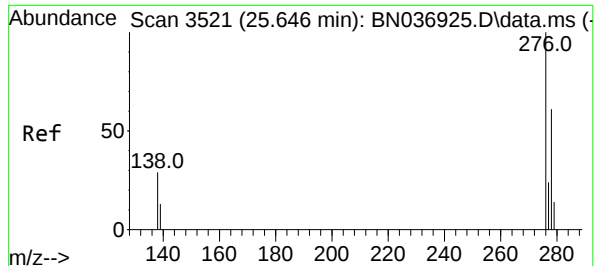
Reviewed By :Rahul Chavli 04/29/2025  
 Supervised By :Jagrut Upadhyay 04/29/2025



#35  
 Perylene-d12  
 Concen: 0.400 ng  
 RT: 23.427 min Scan# 2762  
 Delta R.T. -0.000 min  
 Lab File: BN036923.D  
 Acq: 28 Apr 2025 11:35

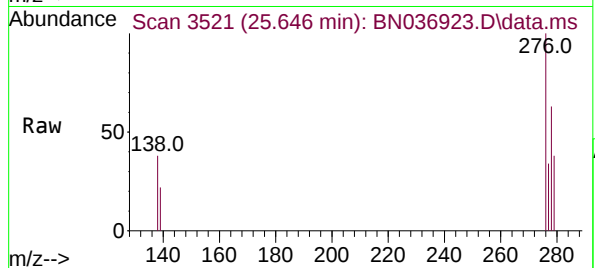
Tgt Ion:264 Resp: 4185  
 Ion Ratio Lower Upper  
 264 100  
 260 28.1 22.2 33.2  
 265 81.3 65.8 98.6





#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.097 ng  
RT: 25.646 min Scan# 3521  
Delta R.T. -0.000 min  
Lab File: BN036923.D  
Acq: 28 Apr 2025 11:35

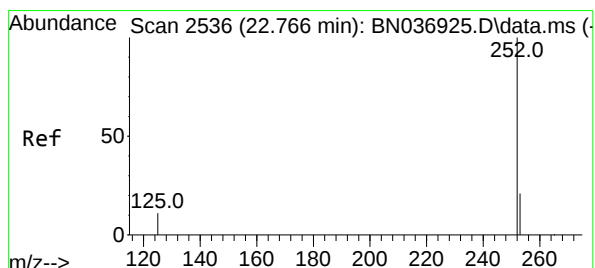
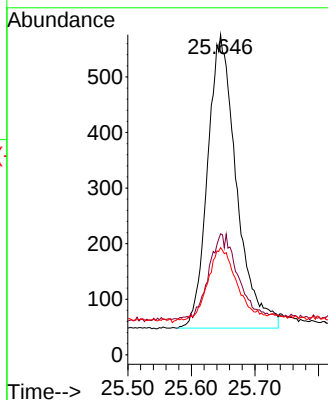
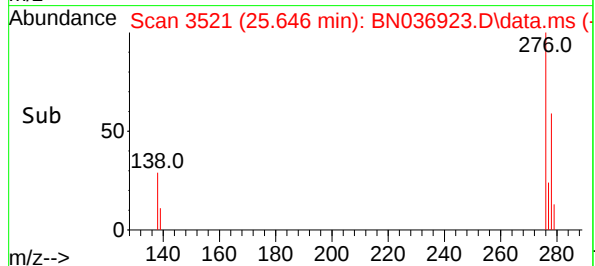
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1



Tgt Ion:276 Resp: 1669  
Ion Ratio Lower Upper  
276 100  
138 29.5 23.0 34.6  
277 24.7 20.0 30.0

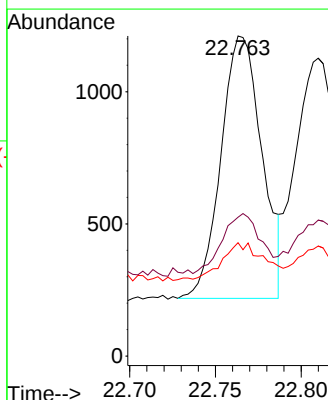
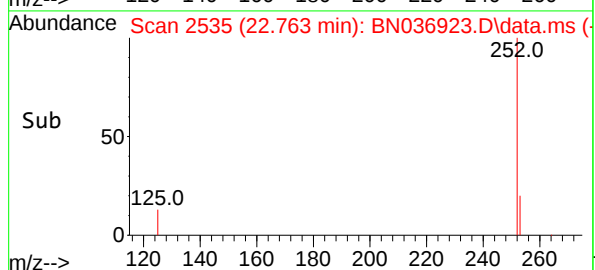
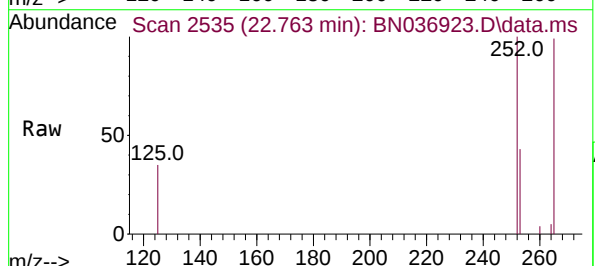
Manual Integrations  
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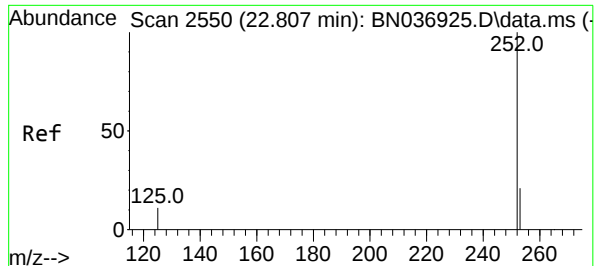
Reviewed By :Rahul Chavli 04/29/2025  
Supervised By :Jagrut Upadhyay 04/29/2025



#37  
Benzo(b)fluoranthene  
Concen: 0.095 ng  
RT: 22.763 min Scan# 2535  
Delta R.T. -0.003 min  
Lab File: BN036923.D  
Acq: 28 Apr 2025 11:35

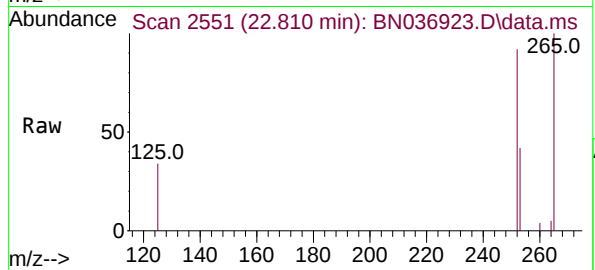
Tgt Ion:252 Resp: 1653  
Ion Ratio Lower Upper  
252 100  
253 43.4 22.1 33.1#  
125 35.4 14.2 21.2#





#38  
Benzo(k)fluoranthene  
Concen: 0.096 ng  
RT: 22.810 min Scan# 2551  
Delta R.T. 0.003 min  
Lab File: BN036923.D  
Acq: 28 Apr 2025 11:35

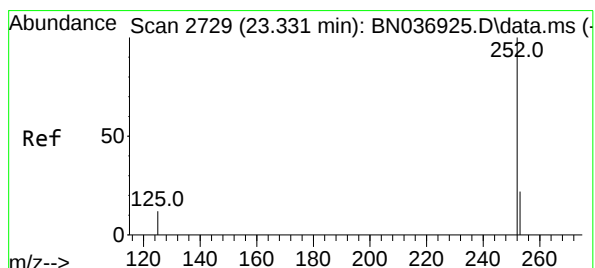
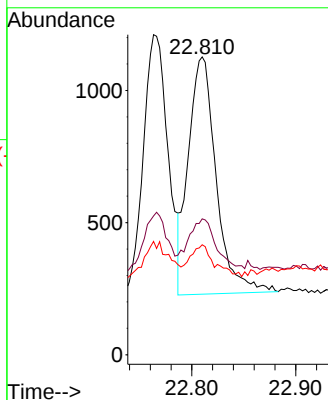
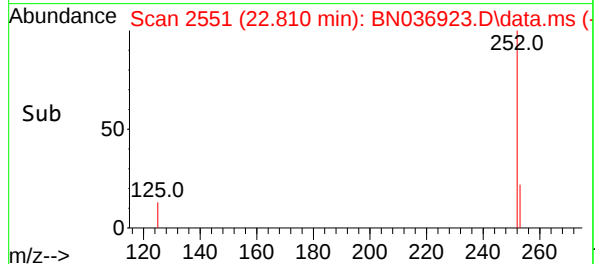
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1



Tgt Ion:252 Resp: 1679  
Ion Ratio Lower Upper  
252 100  
253 45.6 22.8 34.2#  
125 36.9 14.2 21.2#

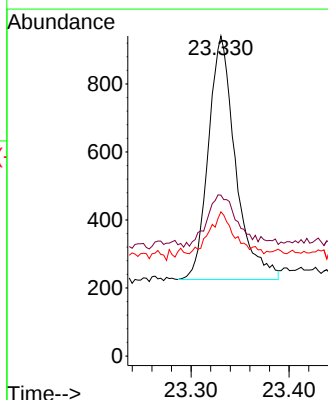
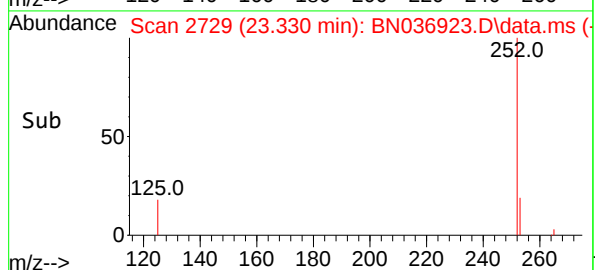
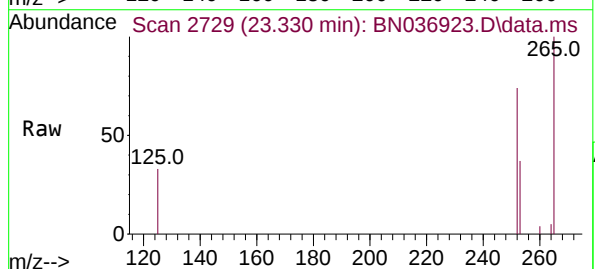
Manual Integrations  
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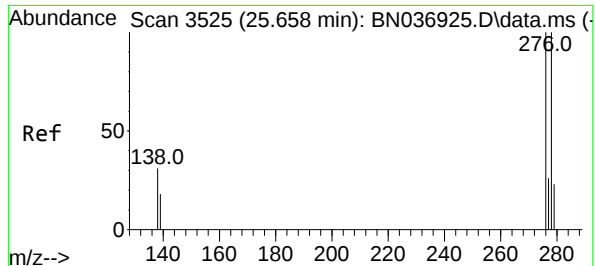
Reviewed By :Rahul Chavli 04/29/2025  
Supervised By :Jagrut Upadhyay 04/29/2025



#39  
Benzo(a)pyrene  
Concen: 0.096 ng  
RT: 23.330 min Scan# 2729  
Delta R.T. -0.000 min  
Lab File: BN036923.D  
Acq: 28 Apr 2025 11:35

Tgt Ion:252 Resp: 1376  
Ion Ratio Lower Upper  
252 100  
253 50.3 25.9 38.9#  
125 45.1 17.4 26.0#





#40

Dibenzo(a,h)anthracene

Concen: 0.095 ng

RT: 25.658 min Scan# 31

Delta R.T. -0.000 min

Lab File: BN036923.D

Acq: 28 Apr 2025 11:35

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.1

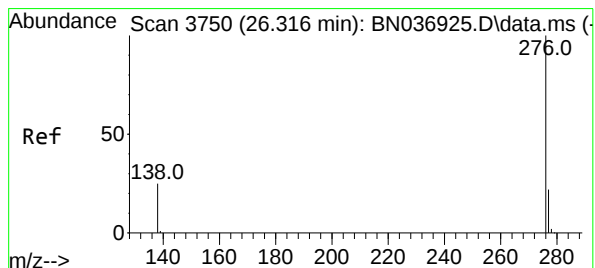
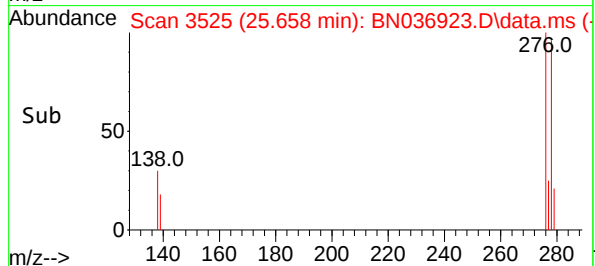
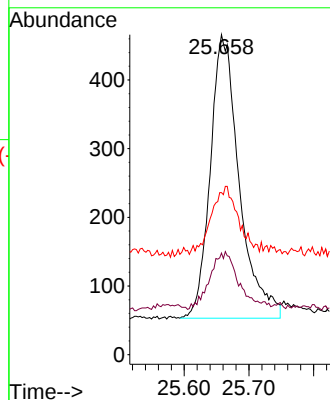
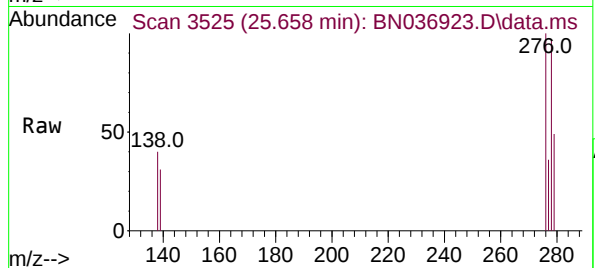
Tgt Ion:278 Resp: 1280  
Ion Ratio Lower Upper  
278 100  
139 31.8 17.4 26.2#  
279 50.6 24.9 37.3#

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 04/29/2025

Supervised By :Jagrut Upadhyay 04/29/2025



#41

Benzo(g,h,i)perylene

Concen: 0.101 ng

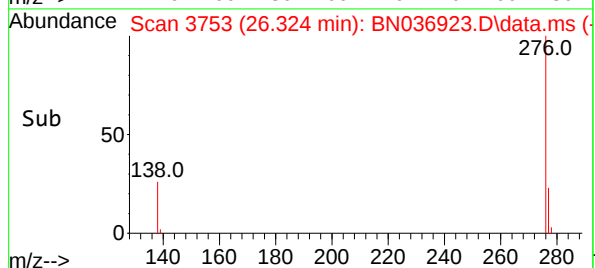
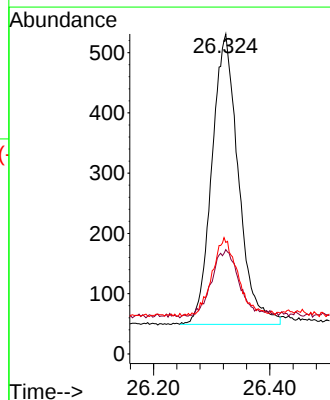
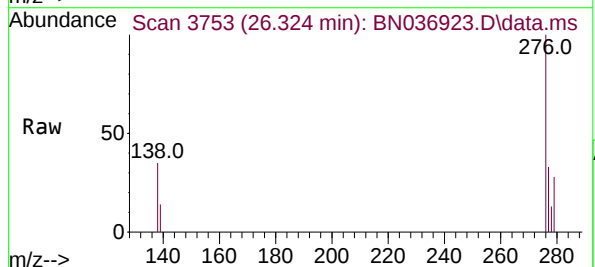
RT: 26.324 min Scan# 3753

Delta R.T. 0.009 min

Lab File: BN036923.D

Acq: 28 Apr 2025 11:35

Tgt Ion:276 Resp: 1527  
Ion Ratio Lower Upper  
276 100  
277 32.6 20.2 30.2#  
138 34.8 21.9 32.9#



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN042825\  
 Data File : BN036924.D  
 Acq On : 28 Apr 2025 12:11  
 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 04/29/2025  
 Supervised By :Jagrut Upadhyay 04/29/2025

Quant Time: Apr 28 15:12:22 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN042825.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Apr 28 15:11:09 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.633  | 152  | 2482     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.415 | 136  | 6094     | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 14.277 | 164  | 3232     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 17.021 | 188  | 6237     | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 21.216 | 240  | 4535     | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.430 | 264  | 4026     | 0.400 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.221  | 112  | 1310     | 0.205 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.802  | 99   | 1535     | 0.197 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.781  | 82   | 1223     | 0.193 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 12.006 | 152  | 1620     | 0.192 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.767 | 330  | 279      | 0.197 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.899 | 172  | 3191     | 0.204 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 19.059 | 212  | 3130     | 0.196 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.667 | 244  | 2136     | 0.198 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
| 2) 1,4-Dioxane                | 3.155  | 88   | 607m     | 0.194 | ng    | Qvalue   |
| 3) n-Nitrosodimethylamine     | 3.473  | 42   | 1238     | 0.204 | ng    | # 99     |
| 6) bis(2-Chloroethyl)ether    | 7.062  | 93   | 1394     | 0.192 | ng    | 98       |
| 9) Naphthalene                | 10.458 | 128  | 3495     | 0.197 | ng    | 97       |
| 10) Hexachlorobutadiene       | 10.757 | 225  | 763      | 0.197 | ng    | # 98     |
| 12) 2-Methylnaphthalene       | 12.082 | 142  | 2173     | 0.191 | ng    | 100      |
| 16) Acenaphthylene            | 13.989 | 152  | 2990     | 0.191 | ng    | 100      |
| 17) Acenaphthene              | 14.341 | 154  | 2053     | 0.198 | ng    | 99       |
| 18) Fluorene                  | 15.325 | 166  | 2605     | 0.193 | ng    | 99       |
| 20) 4,6-Dinitro-2-methylph... | 15.411 | 198  | 258      | 0.165 | ng    | # 57     |
| 21) 4-Bromophenyl-phenylether | 16.227 | 248  | 819      | 0.197 | ng    | 99       |
| 22) Hexachlorobenzene         | 16.338 | 284  | 900      | 0.196 | ng    | 99       |
| 23) Atrazine                  | 16.500 | 200  | 618      | 0.189 | ng    | 98       |
| 24) Pentachlorophenol         | 16.686 | 266  | 425      | 0.178 | ng    | 98       |
| 25) Phenanthrene              | 17.058 | 178  | 3972     | 0.194 | ng    | 100      |
| 26) Anthracene                | 17.158 | 178  | 3454     | 0.188 | ng    | 100      |
| 28) Fluoranthene              | 19.091 | 202  | 4305     | 0.189 | ng    | 99       |
| 30) Pyrene                    | 19.454 | 202  | 4403     | 0.200 | ng    | 100      |
| 32) Benzo(a)anthracene        | 21.198 | 228  | 3191     | 0.193 | ng    | 97       |
| 33) Chrysene                  | 21.251 | 228  | 3574     | 0.197 | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 21.144 | 149  | 1921     | 0.203 | ng    | 98       |
| 36) Indeno(1,2,3-cd)pyrene    | 25.643 | 276  | 3163     | 0.192 | ng    | 99       |
| 37) Benzo(b)fluoranthene      | 22.766 | 252  | 3124     | 0.187 | ng    | # 88     |
| 38) Benzo(k)fluoranthene      | 22.810 | 252  | 3158     | 0.187 | ng    | # 87     |
| 39) Benzo(a)pyrene            | 23.328 | 252  | 2619     | 0.190 | ng    | # 84     |
| 40) Dibenzo(a,h)anthracene    | 25.661 | 278  | 2498     | 0.193 | ng    | # 88     |
| 41) Benzo(g,h,i)perylene      | 26.327 | 276  | 2828     | 0.195 | ng    | 96       |
| -----                         |        |      |          |       |       |          |

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

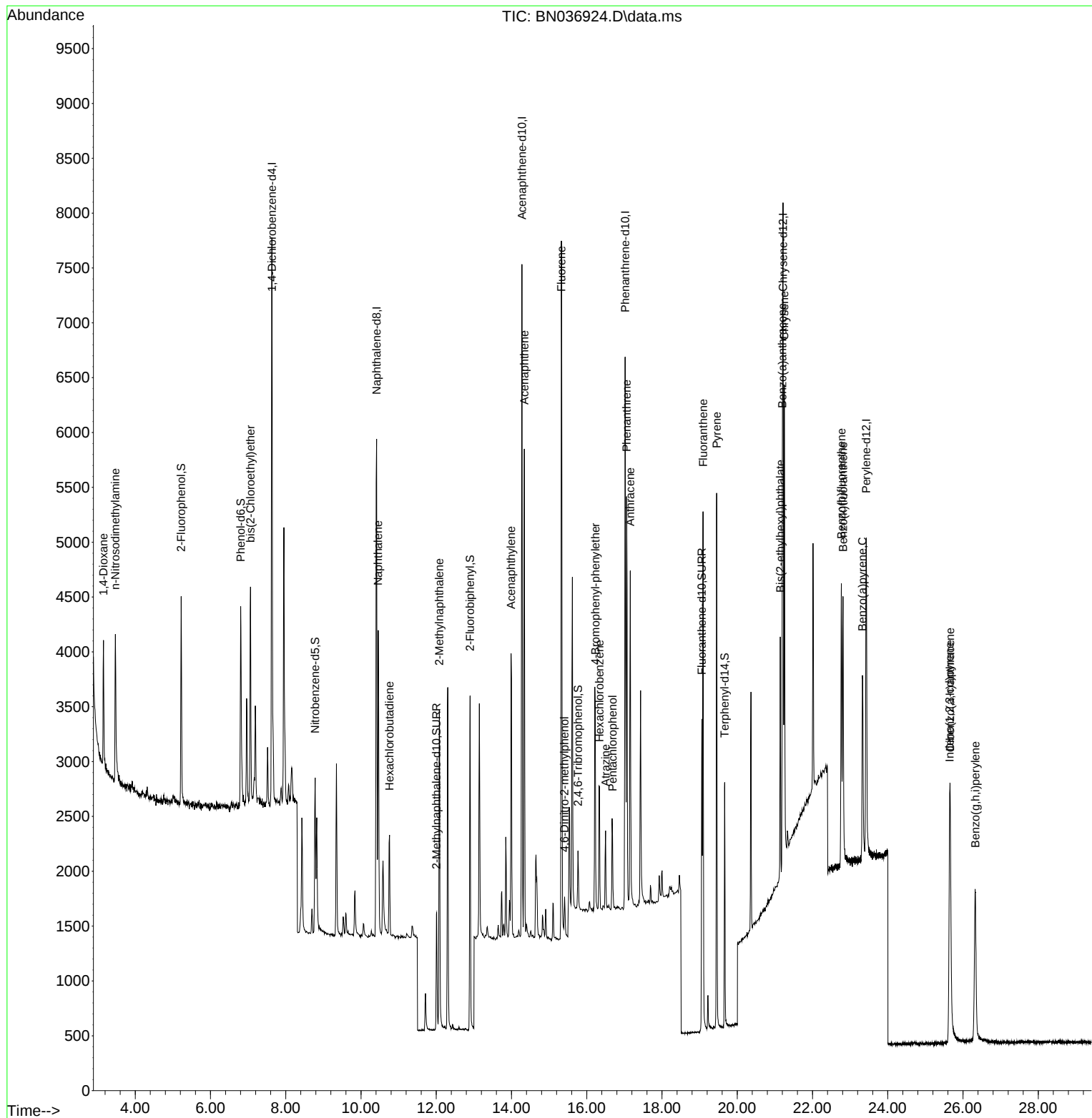
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN042825\  
 Data File : BN036924.D  
 Acq On : 28 Apr 2025 12:11  
 Operator : RC/JU  
 Sample : SSTDICC0.2  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

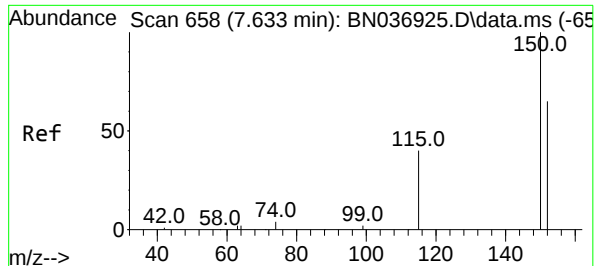
Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC0.2

### Manual Integrations APPROVED

Reviewed By :Rahul Chavli 04/29/2025  
 Supervised By :Jagrut Upadhyay 04/29/2025

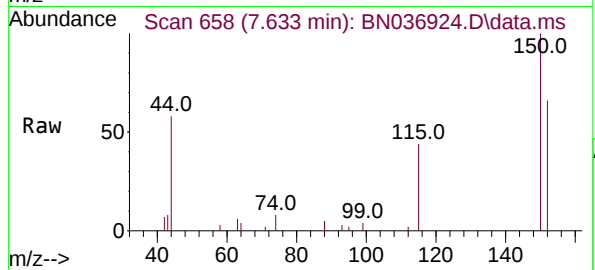
Quant Time: Apr 28 15:12:22 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN042825.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Apr 28 15:11:09 2025  
 Response via : Initial Calibration





#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.633 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: BN036924.D  
Acq: 28 Apr 2025 12:11

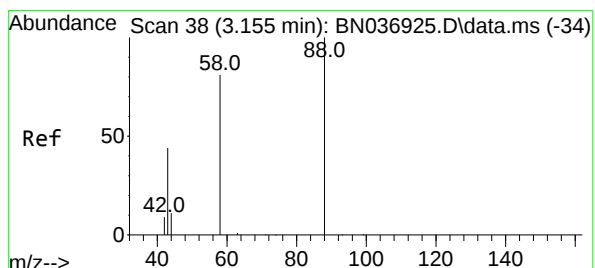
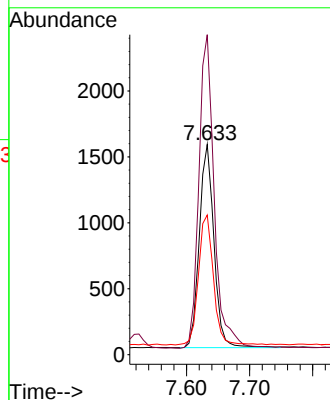
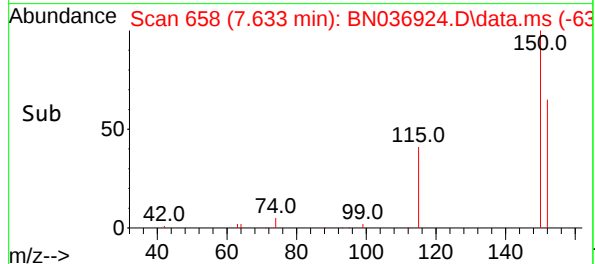
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2



Tgt Ion: 152 Resp: 248  
Ion Ratio Lower Upper  
152 100  
150 152.3 121.1 181.7  
115 66.4 51.8 77.6

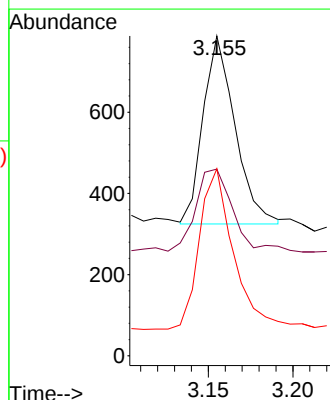
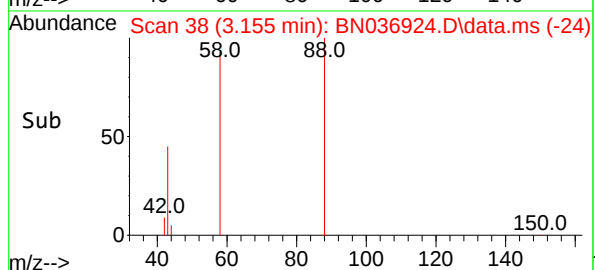
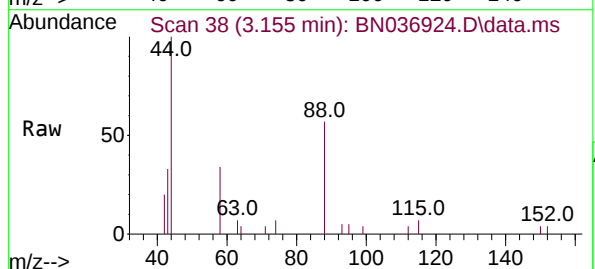
Manual Integrations  
APPROVED

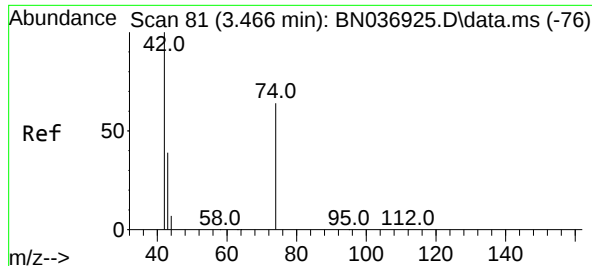
Reviewed By :Rahul Chavli 04/29/2025  
Supervised By :Jagrut Upadhyay 04/29/2025



#2  
1,4-Dioxane  
Concen: 0.194 ng m  
RT: 3.155 min Scan# 38  
Delta R.T. -0.000 min  
Lab File: BN036924.D  
Acq: 28 Apr 2025 12:11

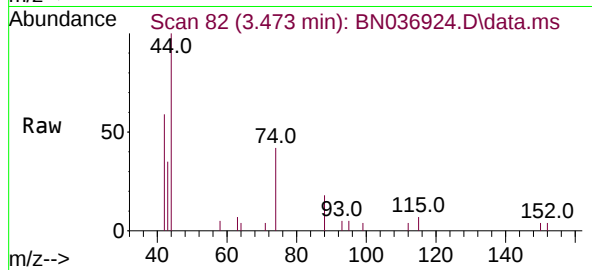
Tgt Ion: 88 Resp: 607  
Ion Ratio Lower Upper  
88 100  
43 66.4 37.9 56.9#  
58 94.4 65.8 98.6





#3  
n-Nitrosodimethylamine  
Concen: 0.204 ng  
RT: 3.473 min Scan# 81  
Delta R.T. 0.007 min  
Lab File: BN036924.D  
Acq: 28 Apr 2025 12:11

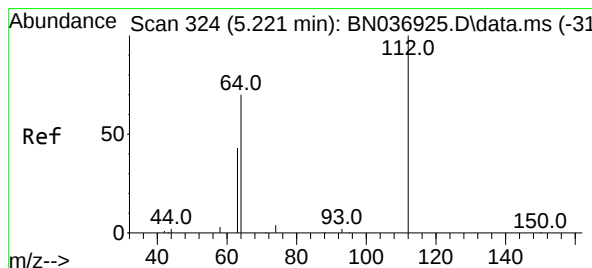
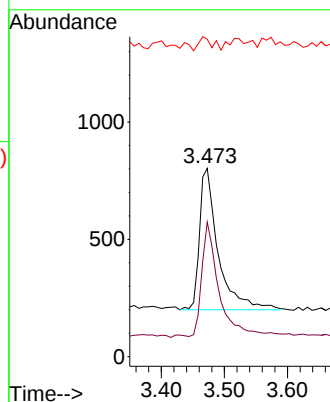
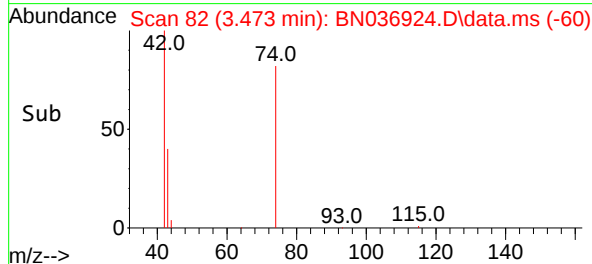
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2



Tgt Ion: 42 Resp: 1238  
Ion Ratio Lower Upper  
42 100  
74 74.2 59.9 89.9  
44 7.1 7.5 11.3

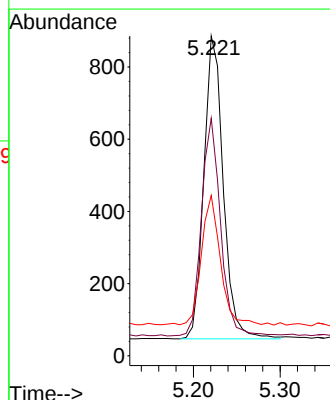
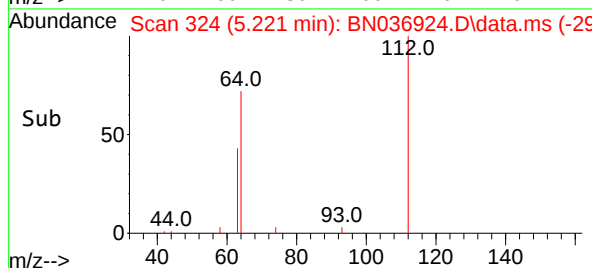
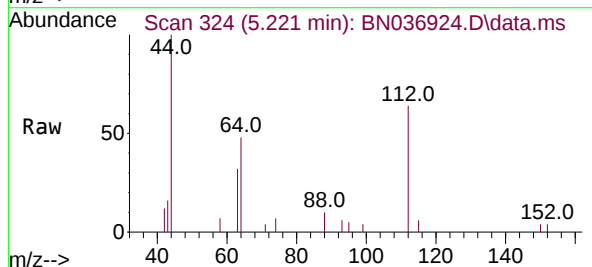
Manual Integrations  
APPROVED

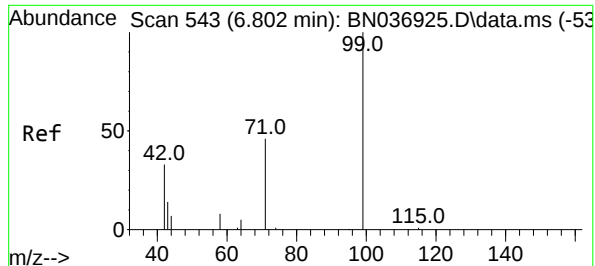
Reviewed By :Rahul Chavli 04/29/2025  
Supervised By :Jagrut Upadhyay 04/29/2025



#4  
2-Fluorophenol  
Concen: 0.205 ng  
RT: 5.221 min Scan# 324  
Delta R.T. -0.000 min  
Lab File: BN036924.D  
Acq: 28 Apr 2025 12:11

Tgt Ion:112 Resp: 1310  
Ion Ratio Lower Upper  
112 100  
64 70.8 55.7 83.5  
63 42.5 33.9 50.9





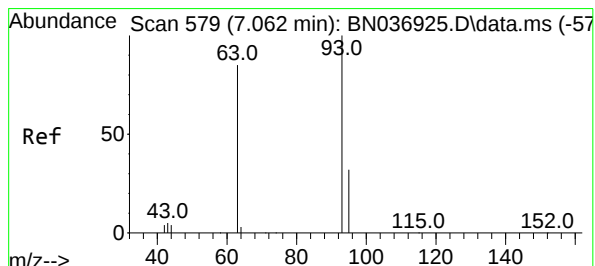
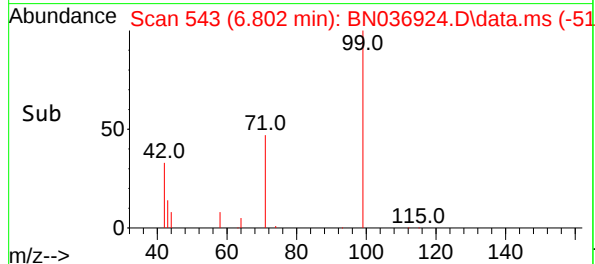
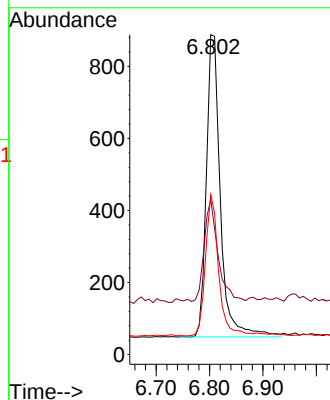
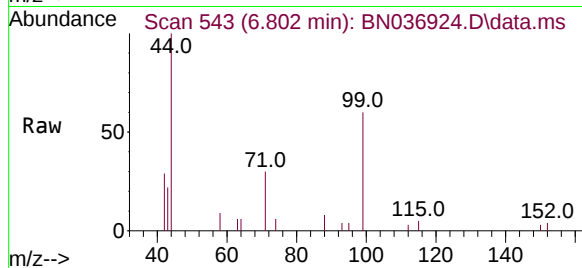
#5  
Phenol-d6  
Concen: 0.197 ng  
RT: 6.802 min Scan# 543  
Delta R.T. -0.000 min  
Lab File: BN036924.D  
Acq: 28 Apr 2025 12:11

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

Tgt Ion: 99 Resp: 1538  
Ion Ratio Lower Upper  
99 100  
42 33.2 29.6 44.4  
71 43.6 36.0 54.0

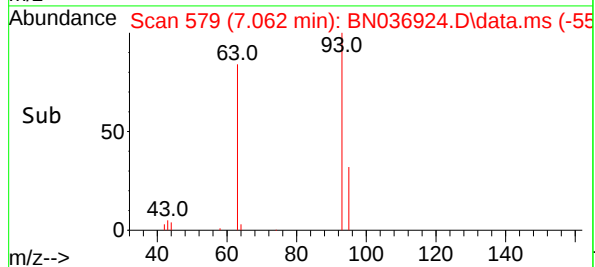
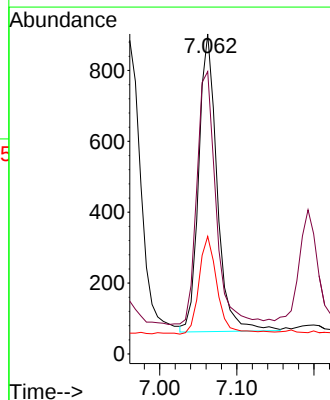
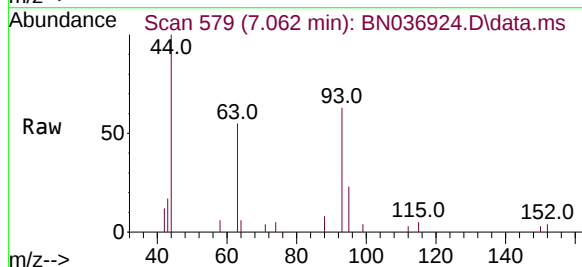
Manual Integrations  
APPROVED

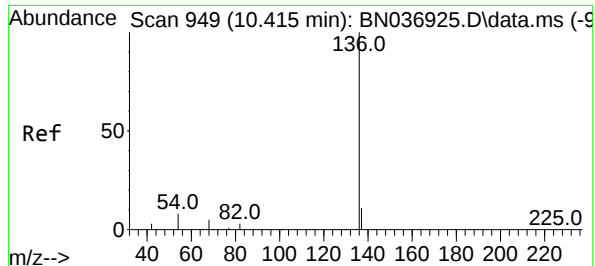
Reviewed By :Rahul Chavli 04/29/2025  
Supervised By :Jagrut Upadhyay 04/29/2025



#6  
bis(2-Chloroethyl)ether  
Concen: 0.192 ng  
RT: 7.062 min Scan# 579  
Delta R.T. -0.000 min  
Lab File: BN036924.D  
Acq: 28 Apr 2025 12:11

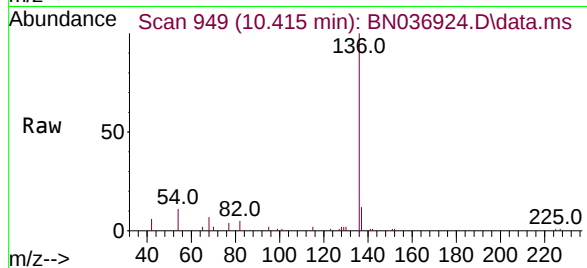
Tgt Ion: 93 Resp: 1394  
Ion Ratio Lower Upper  
93 100  
63 88.4 69.0 103.6  
95 33.1 25.4 38.0





#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.415 min Scan# 949  
Delta R.T. -0.000 min  
Lab File: BN036924.D  
Acq: 28 Apr 2025 12:11

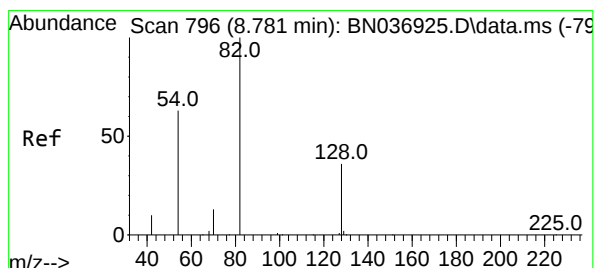
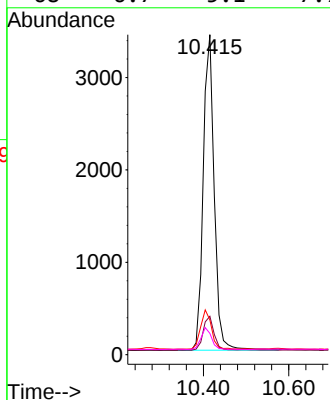
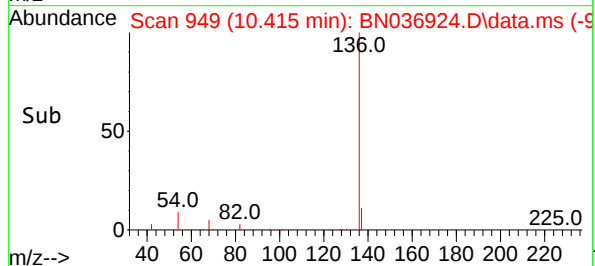
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 136     | 100   |       |       |
| 137     | 12.0  | 9.7   | 14.5  |
| 54      | 10.8  | 8.0   | 12.0  |
| 68      | 6.7   | 5.1   | 7.7   |

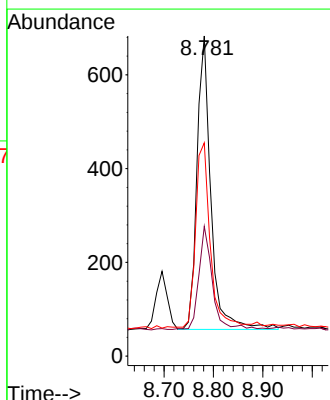
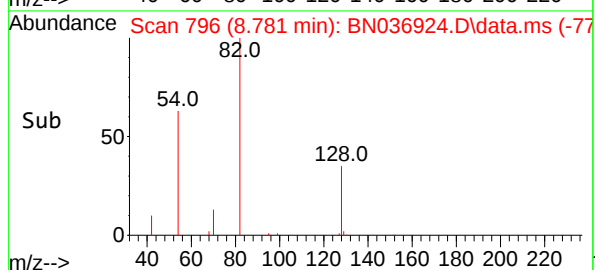
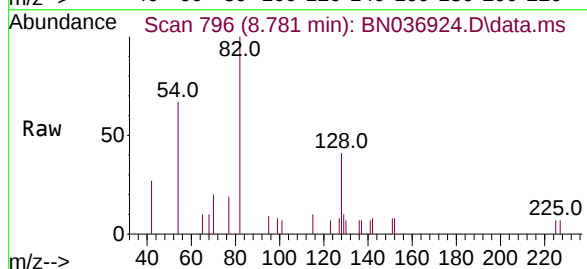
Manual Integrations  
APPROVED

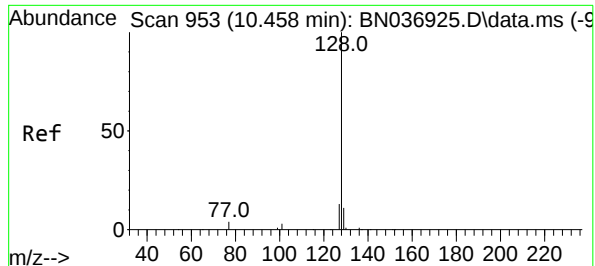
Reviewed By :Rahul Chavli 04/29/2025  
Supervised By :Jagrut Upadhyay 04/29/2025



#8  
Nitrobenzene-d5  
Concen: 0.193 ng  
RT: 8.781 min Scan# 796  
Delta R.T. -0.000 min  
Lab File: BN036924.D  
Acq: 28 Apr 2025 12:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 40.6  | 30.7  | 46.1  |
| 54      | 66.6  | 52.1  | 78.1  |





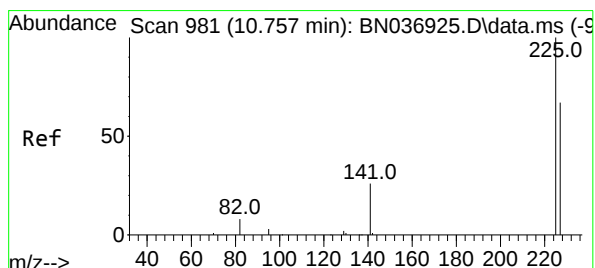
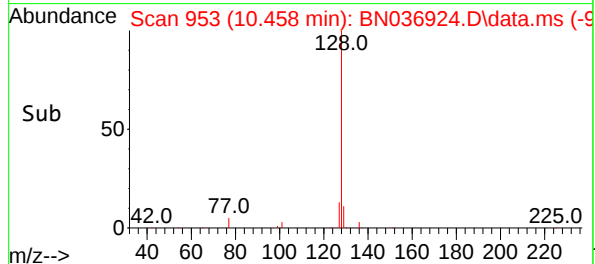
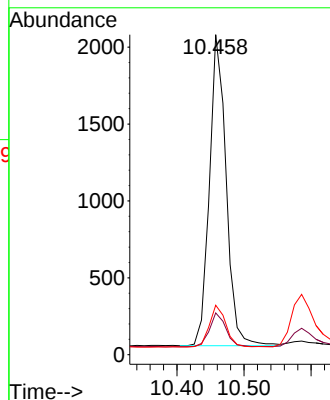
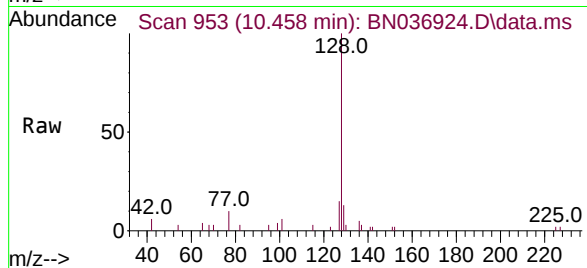
#9  
Naphthalene  
Concen: 0.197 ng  
RT: 10.458 min Scan# 953  
Delta R.T. -0.000 min  
Lab File: BN036924.D  
Acq: 28 Apr 2025 12:11

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

Tgt Ion:128 Resp: 349  
Ion Ratio Lower Upper  
128 100  
129 13.1 9.8 14.6  
127 15.5 11.4 17.2

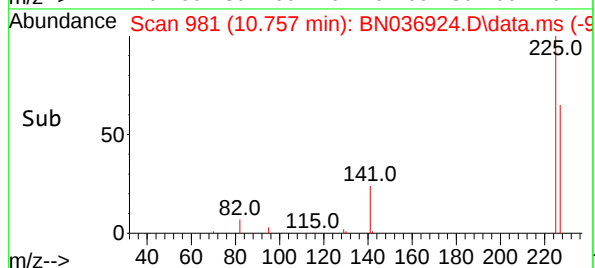
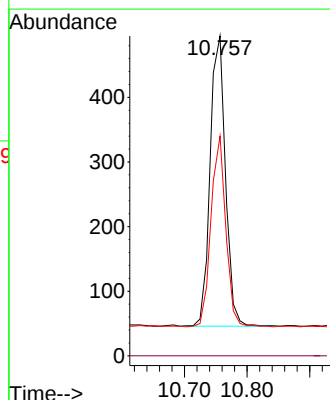
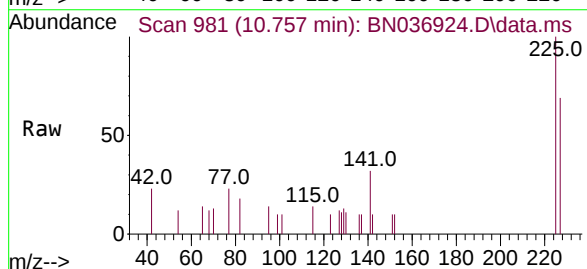
Manual Integrations  
APPROVED

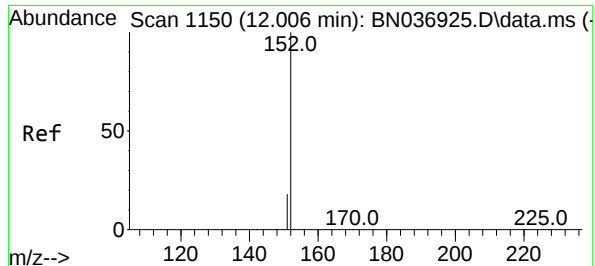
Reviewed By :Rahul Chavli 04/29/2025  
Supervised By :Jagrut Upadhyay 04/29/2025



#10  
Hexachlorobutadiene  
Concen: 0.197 ng  
RT: 10.757 min Scan# 981  
Delta R.T. -0.000 min  
Lab File: BN036924.D  
Acq: 28 Apr 2025 12:11

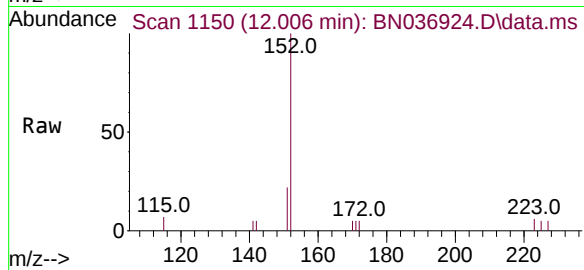
Tgt Ion:225 Resp: 763  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 63.4 52.2 78.4





#11  
2-Methylnaphthalene-d10  
Concen: 0.192 ng  
RT: 12.006 min Scan# 1150  
Delta R.T. -0.000 min  
Lab File: BN036924.D  
Acq: 28 Apr 2025 12:11

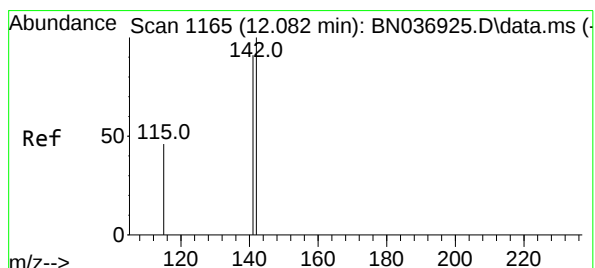
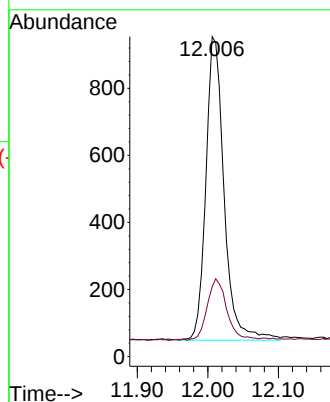
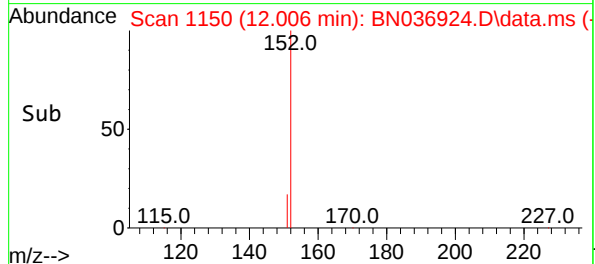
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2



Tgt Ion:152 Resp: 1620  
Ion Ratio Lower Upper  
152 100  
151 21.7 16.9 25.3

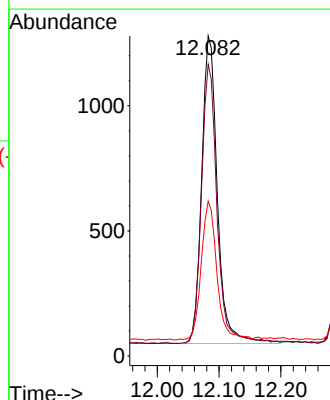
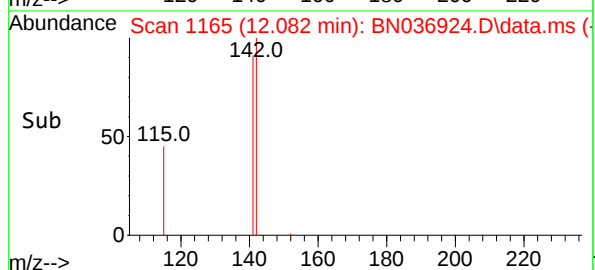
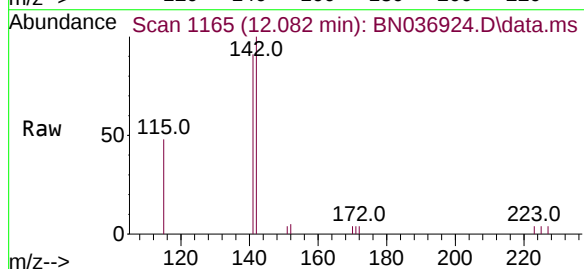
Manual Integrations  
APPROVED

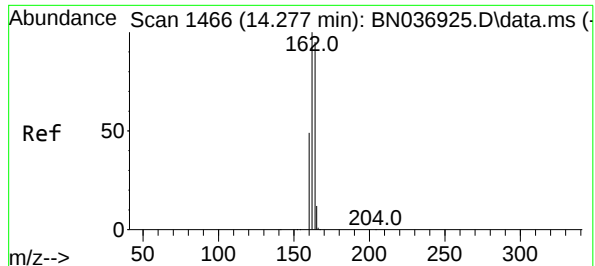
Reviewed By :Rahul Chavli 04/29/2025  
Supervised By :Jagrut Upadhyay 04/29/2025



#12  
2-Methylnaphthalene  
Concen: 0.191 ng  
RT: 12.082 min Scan# 1165  
Delta R.T. -0.000 min  
Lab File: BN036924.D  
Acq: 28 Apr 2025 12:11

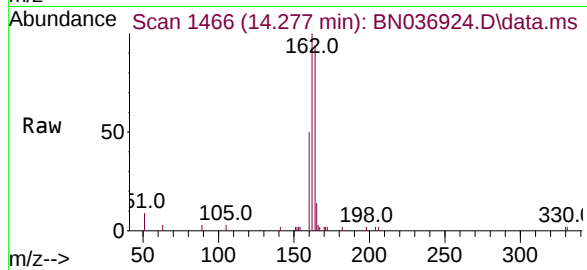
Tgt Ion:142 Resp: 2173  
Ion Ratio Lower Upper  
142 100  
141 91.2 72.8 109.2  
115 48.5 38.2 57.4





#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.277 min Scan# 1466  
Delta R.T. -0.000 min  
Lab File: BN036924.D  
Acq: 28 Apr 2025 12:11

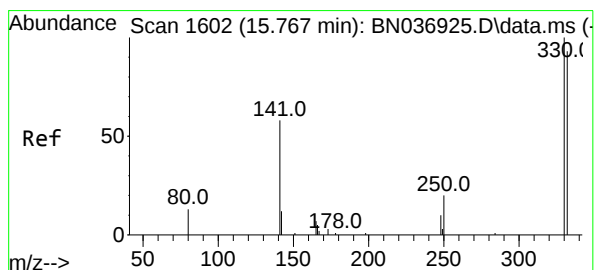
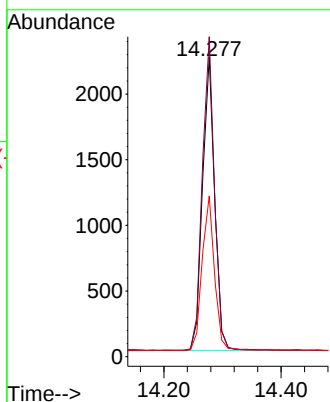
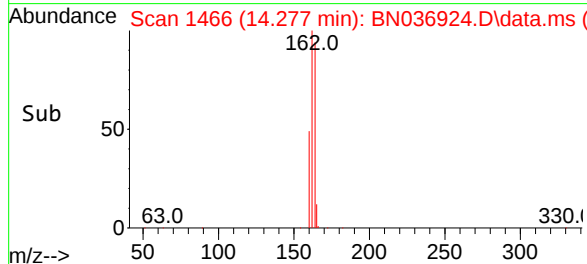
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2



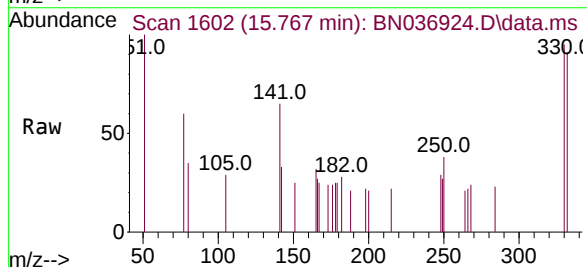
Tgt Ion:164 Resp: 323  
Ion Ratio Lower Upper  
164 100  
162 106.7 83.8 125.8  
160 53.6 42.0 63.0

Manual Integrations  
APPROVED

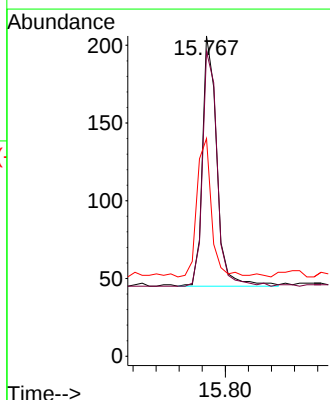
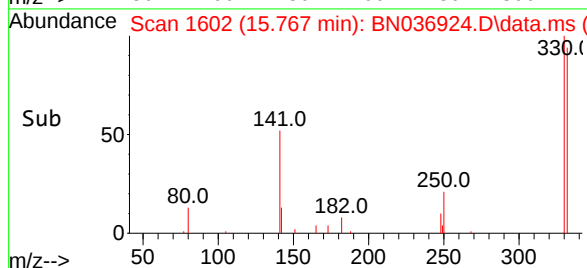
Reviewed By :Rahul Chavli 04/29/2025  
Supervised By :Jagrut Upadhyay 04/29/2025

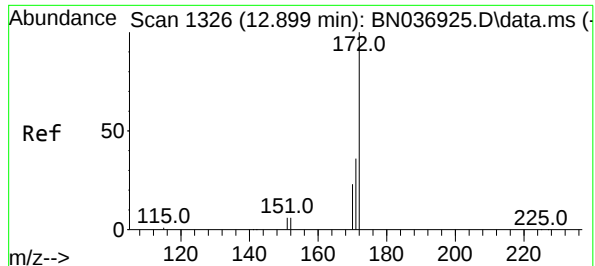


#14  
2,4,6-Tribromophenol  
Concen: 0.197 ng  
RT: 15.767 min Scan# 1602  
Delta R.T. -0.000 min  
Lab File: BN036924.D  
Acq: 28 Apr 2025 12:11



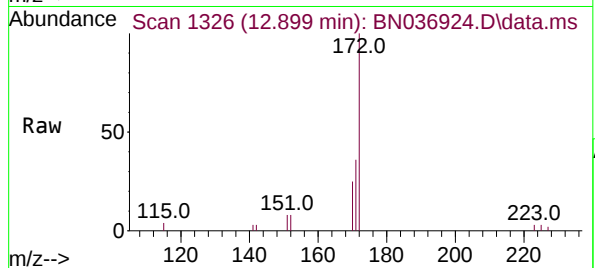
Tgt Ion:330 Resp: 279  
Ion Ratio Lower Upper  
330 100  
332 95.7 76.3 114.5  
141 55.9 45.4 68.2





#15  
2-Fluorobiphenyl  
Concen: 0.204 ng  
RT: 12.899 min Scan# 1439  
Delta R.T. -0.000 min  
Lab File: BN036924.D  
Acq: 28 Apr 2025 12:11

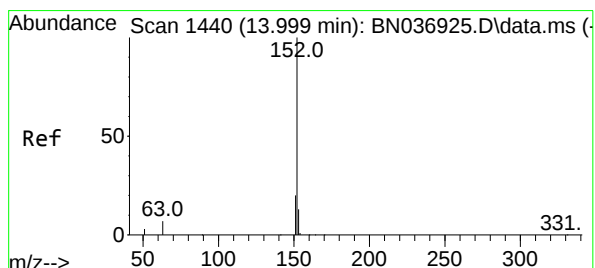
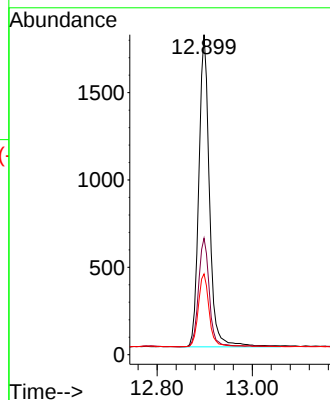
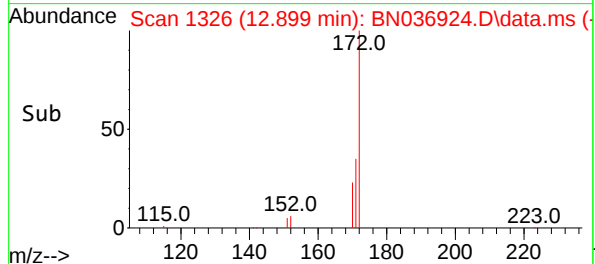
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2



Tgt Ion:172 Resp: 319  
Ion Ratio Lower Upper  
172 100  
171 36.4 29.4 44.0  
170 25.3 19.4 29.0

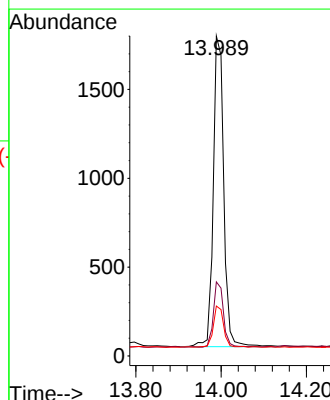
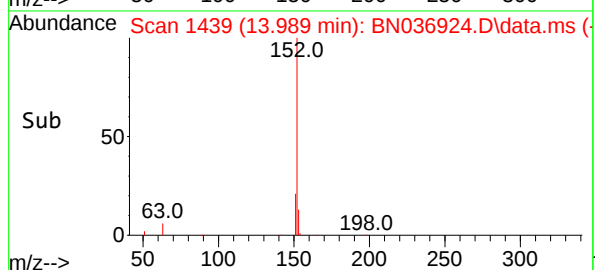
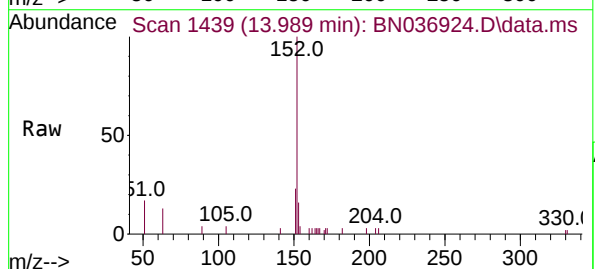
Manual Integrations  
APPROVED

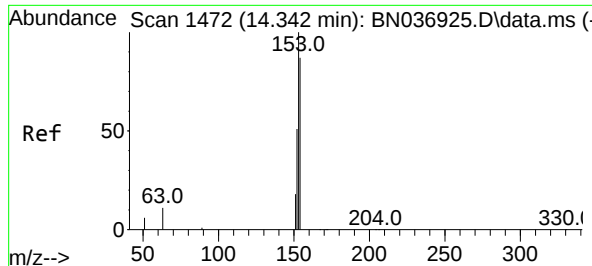
Reviewed By :Rahul Chavli 04/29/2025  
Supervised By :Jagrut Upadhyay 04/29/2025



#16  
Acenaphthylene  
Concen: 0.191 ng  
RT: 13.989 min Scan# 1439  
Delta R.T. -0.011 min  
Lab File: BN036924.D  
Acq: 28 Apr 2025 12:11

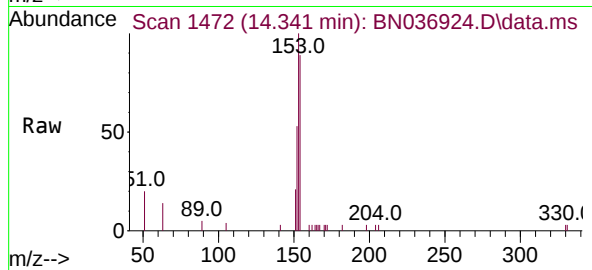
Tgt Ion:152 Resp: 2990  
Ion Ratio Lower Upper  
152 100  
151 20.2 16.0 24.0  
153 12.8 10.2 15.2





#17  
Acenaphthene  
Concen: 0.198 ng  
RT: 14.341 min Scan# 1472  
Delta R.T. -0.000 min  
Lab File: BN036924.D  
Acq: 28 Apr 2025 12:11

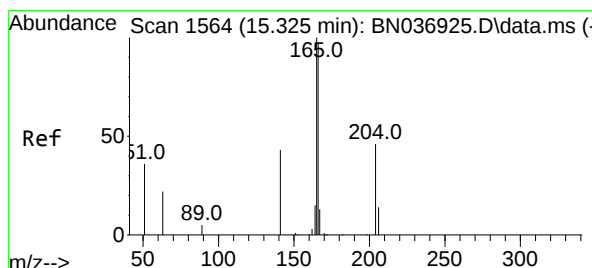
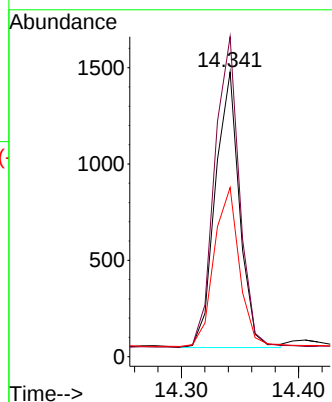
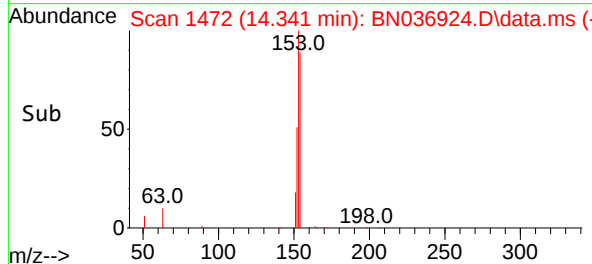
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2



Tgt Ion:154 Resp: 205  
Ion Ratio Lower Upper  
154 100  
153 115.1 93.4 140.2  
152 60.9 49.5 74.3

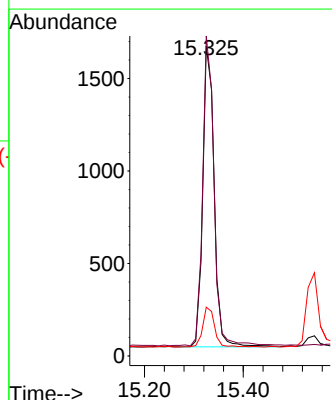
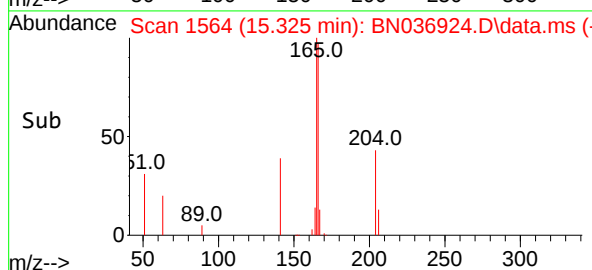
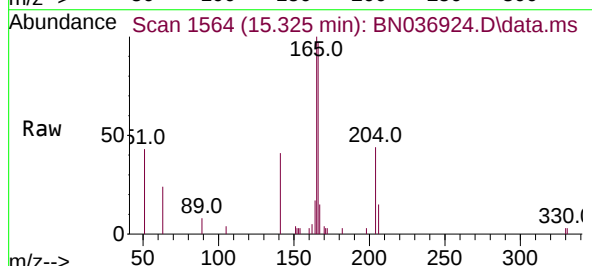
Manual Integrations  
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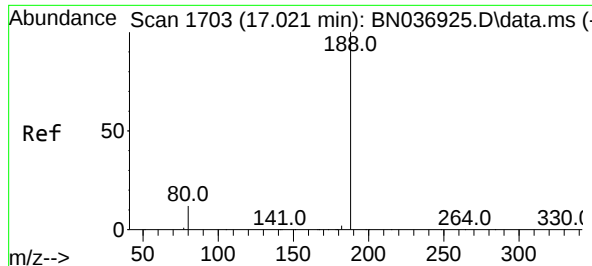
Reviewed By :Rahul Chavli 04/29/2025  
Supervised By :Jagrut Upadhyay 04/29/2025



#18  
Fluorene  
Concen: 0.193 ng  
RT: 15.325 min Scan# 1564  
Delta R.T. -0.000 min  
Lab File: BN036924.D  
Acq: 28 Apr 2025 12:11

Tgt Ion:166 Resp: 2605  
Ion Ratio Lower Upper  
166 100  
165 101.9 80.8 121.2  
167 14.0 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.021 min Scan# 11

Delta R.T. -0.000 min

Lab File: BN036924.D

Acq: 28 Apr 2025 12:11

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2

Tgt Ion:188 Resp: 623

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

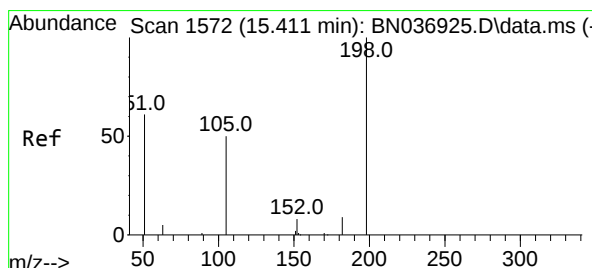
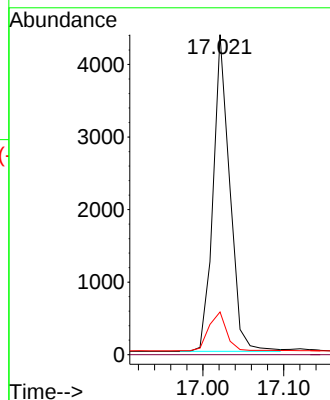
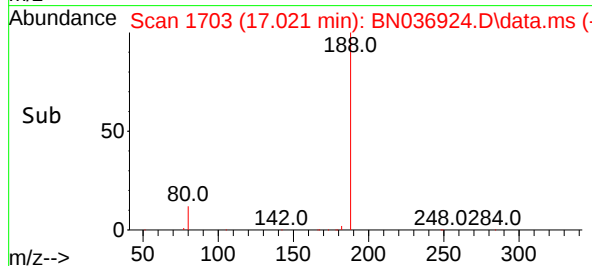
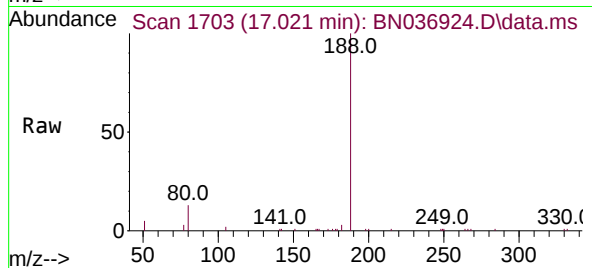
80 13.4 10.7 16.1

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 04/29/2025

Supervised By :Jagrut Upadhyay 04/29/2025



#20

4,6-Dinitro-2-methylphenol

Concen: 0.165 ng

RT: 15.411 min Scan# 1572

Delta R.T. -0.000 min

Lab File: BN036924.D

Acq: 28 Apr 2025 12:11

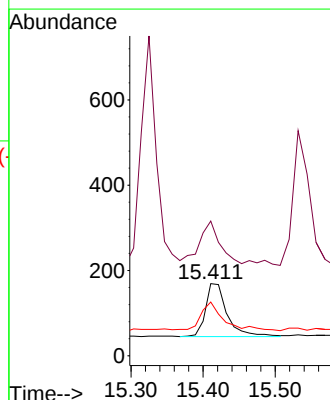
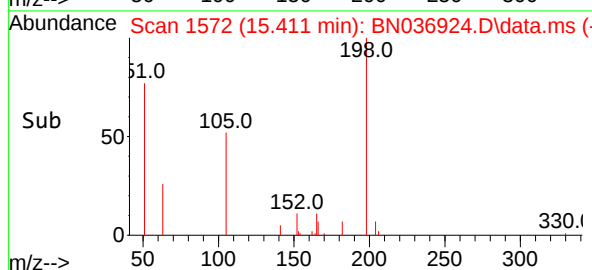
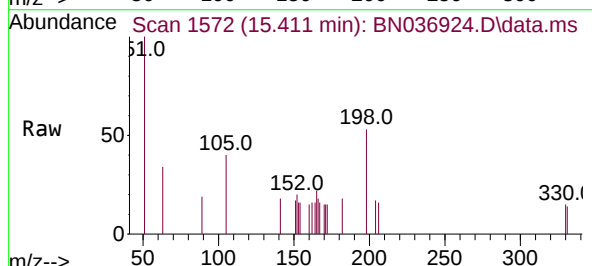
Tgt Ion:198 Resp: 258

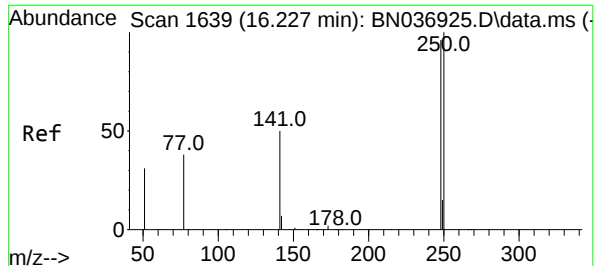
Ion Ratio Lower Upper

198 100

51 187.0 97.9 146.9

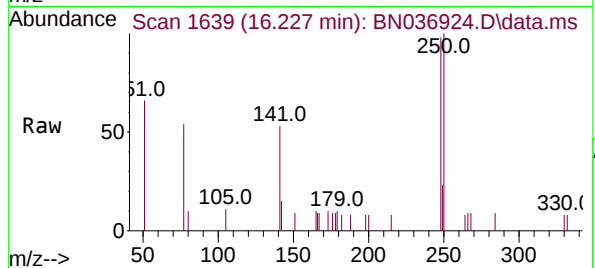
105 74.6 50.0 75.0





#21  
4-Bromophenyl-phenylether  
Concen: 0.197 ng  
RT: 16.227 min Scan# 1639  
Delta R.T. -0.000 min  
Lab File: BN036924.D  
Acq: 28 Apr 2025 12:11

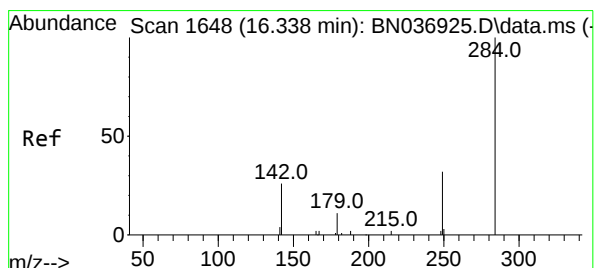
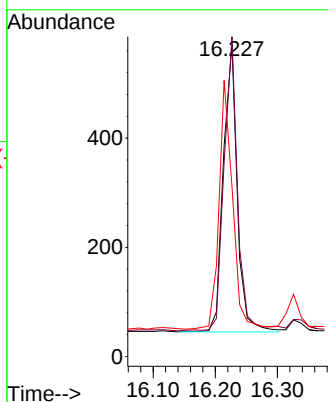
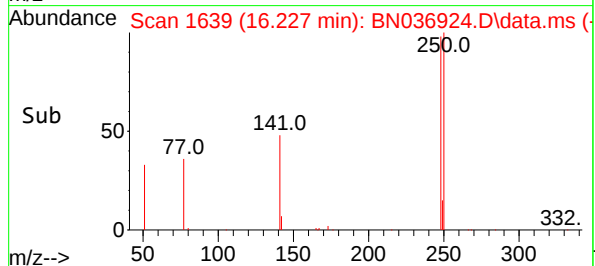
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2



Tgt Ion:248 Resp: 819  
Ion Ratio Lower Upper  
248 100  
250 102.4 83.7 125.5  
141 54.5 43.8 65.8

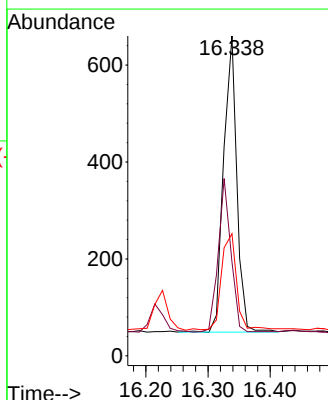
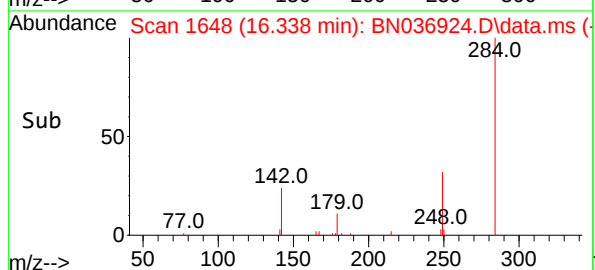
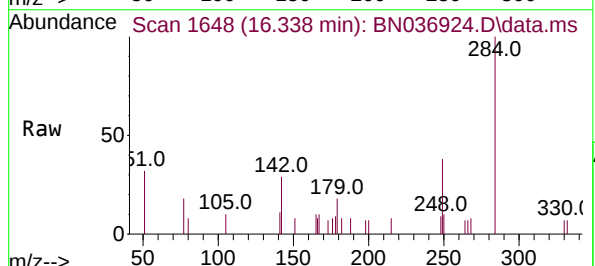
Manual Integrations  
APPROVED

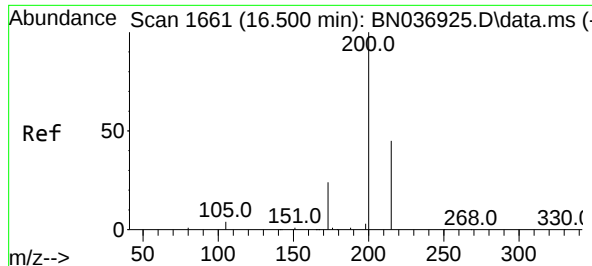
Reviewed By :Rahul Chavli 04/29/2025  
Supervised By :Jagrut Upadhyay 04/29/2025



#22  
Hexachlorobenzene  
Concen: 0.196 ng  
RT: 16.338 min Scan# 1648  
Delta R.T. -0.000 min  
Lab File: BN036924.D  
Acq: 28 Apr 2025 12:11

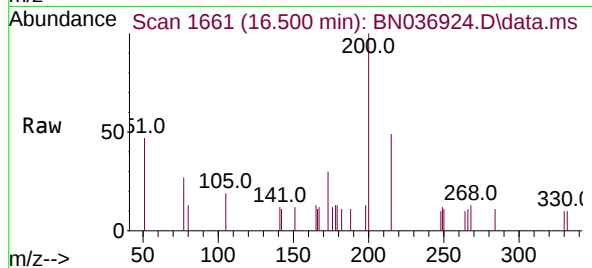
Tgt Ion:284 Resp: 900  
Ion Ratio Lower Upper  
284 100  
142 49.8 40.0 60.0  
249 37.0 28.2 42.2





#23  
Atrazine  
Concen: 0.189 ng  
RT: 16.500 min Scan# 1661  
Delta R.T. -0.000 min  
Lab File: BN036924.D  
Acq: 28 Apr 2025 12:11

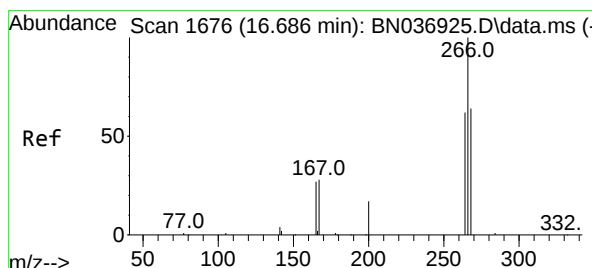
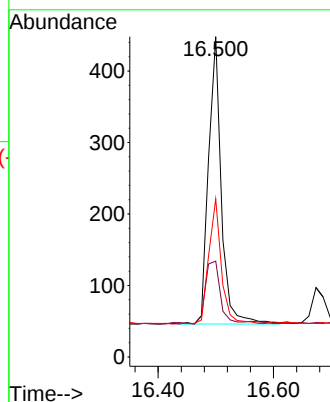
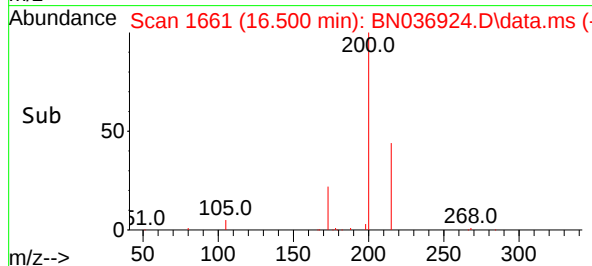
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2



Tgt Ion:200 Resp: 618  
Ion Ratio Lower Upper  
200 100  
173 29.9 22.4 33.6  
215 49.3 38.6 57.8

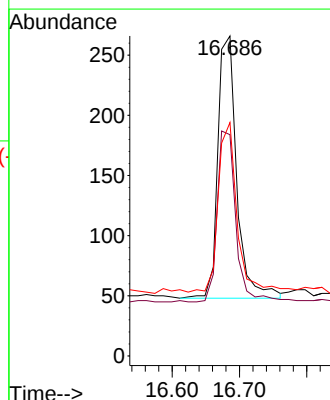
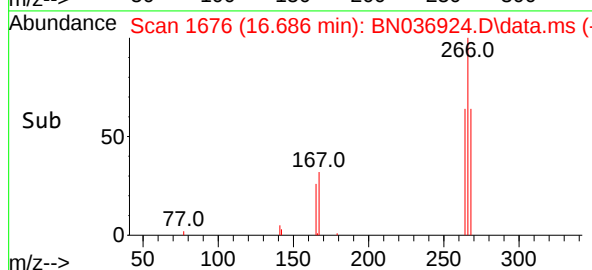
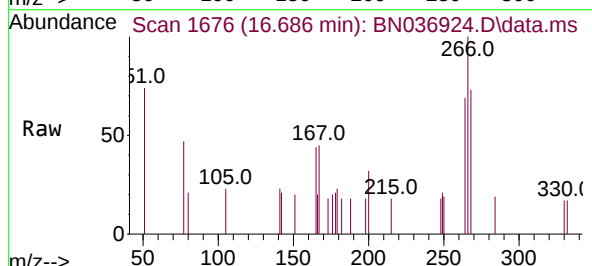
Manual Integrations  
APPROVED

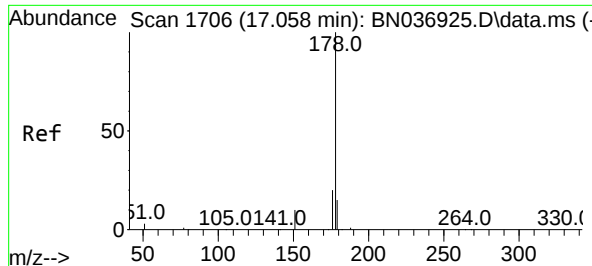
Reviewed By :Rahul Chavli 04/29/2025  
Supervised By :Jagrut Upadhyay 04/29/2025



#24  
Pentachlorophenol  
Concen: 0.178 ng  
RT: 16.686 min Scan# 1676  
Delta R.T. -0.000 min  
Lab File: BN036924.D  
Acq: 28 Apr 2025 12:11

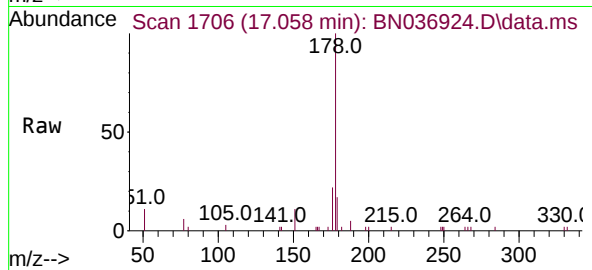
Tgt Ion:266 Resp: 425  
Ion Ratio Lower Upper  
266 100  
264 64.5 49.9 74.9  
268 66.8 52.2 78.4





#25  
Phenanthrene  
Concen: 0.194 ng  
RT: 17.058 min Scan# 1706  
Delta R.T. -0.000 min  
Lab File: BN036924.D  
Acq: 28 Apr 2025 12:11

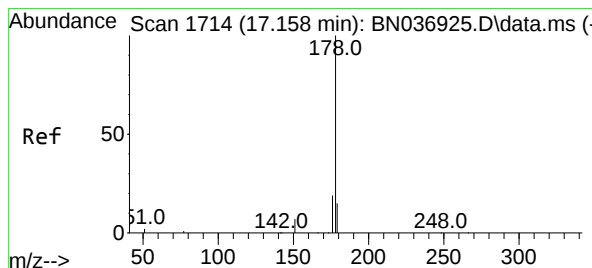
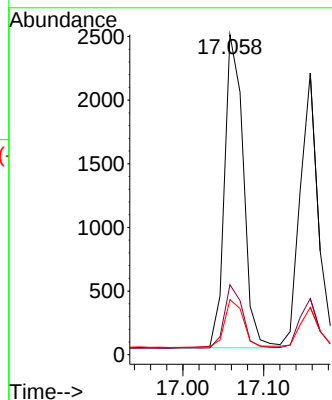
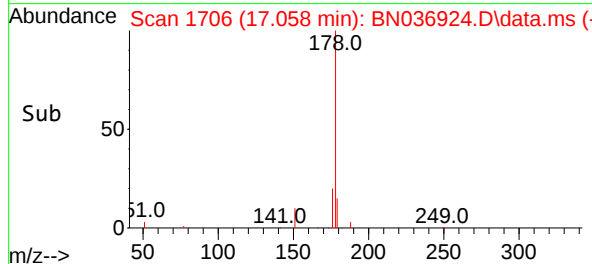
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2



Tgt Ion:178 Resp: 3972  
Ion Ratio Lower Upper  
178 100  
176 19.9 15.7 23.5  
179 15.5 12.4 18.6

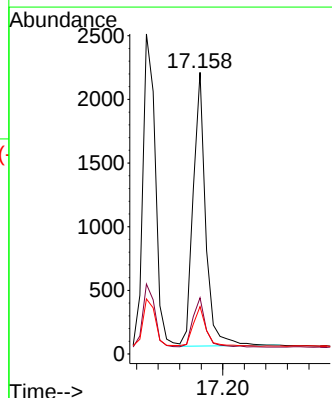
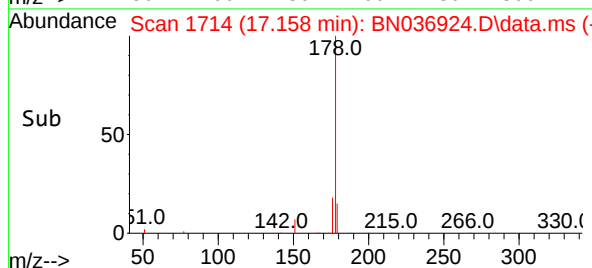
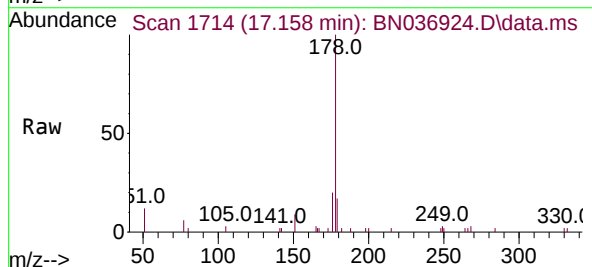
Manual Integrations  
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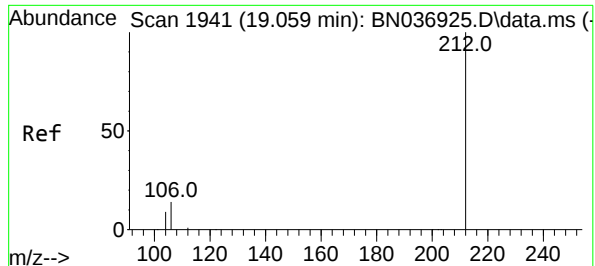
Reviewed By :Rahul Chavli 04/29/2025  
Supervised By :Jagrut Upadhyay 04/29/2025



#26  
Anthracene  
Concen: 0.188 ng  
RT: 17.158 min Scan# 1714  
Delta R.T. -0.000 min  
Lab File: BN036924.D  
Acq: 28 Apr 2025 12:11

Tgt Ion:178 Resp: 3454  
Ion Ratio Lower Upper  
178 100  
176 18.9 15.3 22.9  
179 15.2 12.1 18.1





#27

Fluoranthene-d10

Concen: 0.196 ng

RT: 19.059 min Scan# 1941

Delta R.T. -0.000 min

Lab File: BN036924.D

Acq: 28 Apr 2025 12:11

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2

Tgt Ion:212 Resp: 3130

Ion Ratio Lower Upper

212 100

106 15.0 11.6 17.4

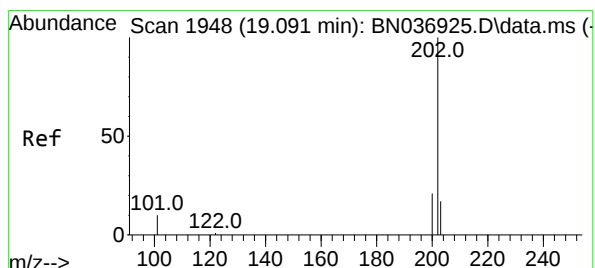
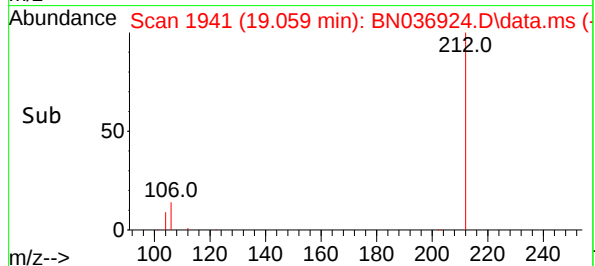
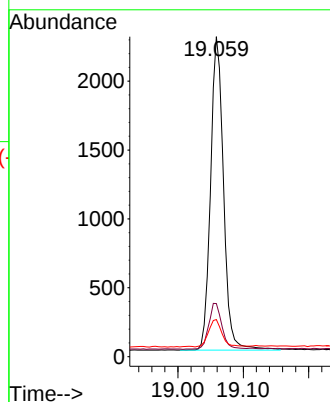
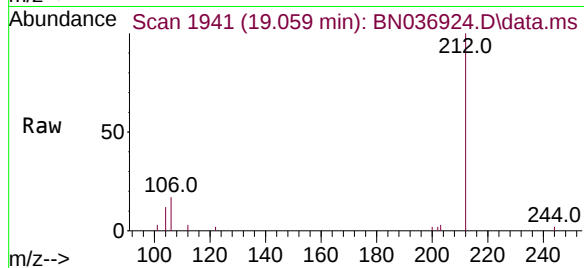
104 9.0 7.0 10.4

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 04/29/2025

Supervised By :Jagrut Upadhyay 04/29/2025



#28

Fluoranthene

Concen: 0.189 ng

RT: 19.091 min Scan# 1948

Delta R.T. -0.000 min

Lab File: BN036924.D

Acq: 28 Apr 2025 12:11

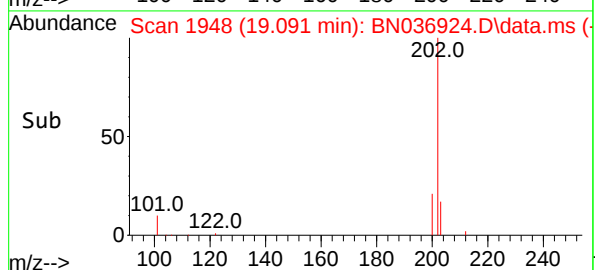
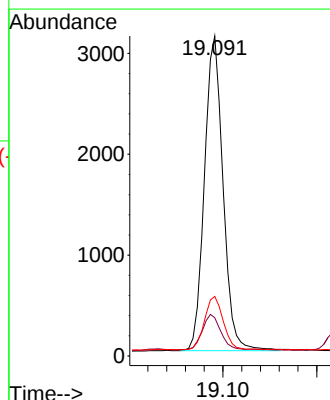
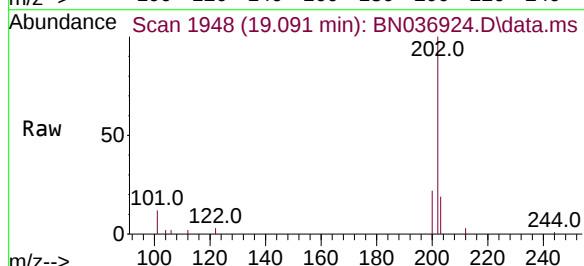
Tgt Ion:202 Resp: 4305

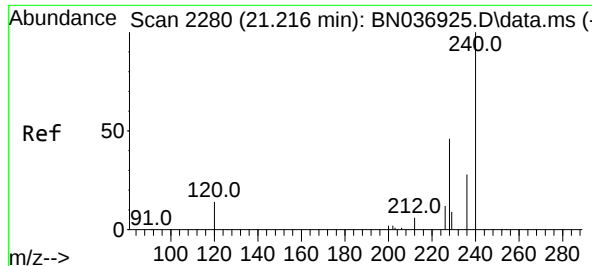
Ion Ratio Lower Upper

202 100

101 11.2 8.5 12.7

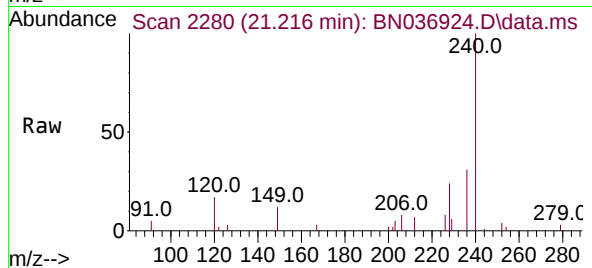
203 17.4 13.7 20.5





#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.216 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: BN036924.D  
Acq: 28 Apr 2025 12:11

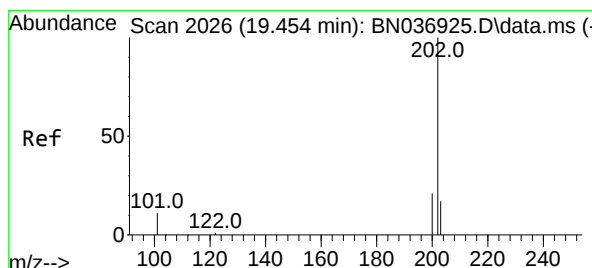
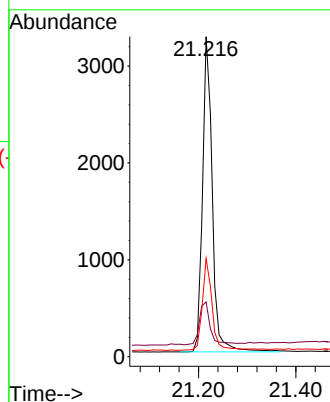
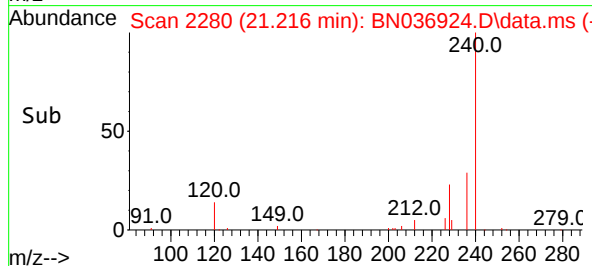
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2



Tgt Ion:240 Resp: 453  
Ion Ratio Lower Upper  
240 100  
120 17.1 14.1 21.1  
236 30.7 23.8 35.8

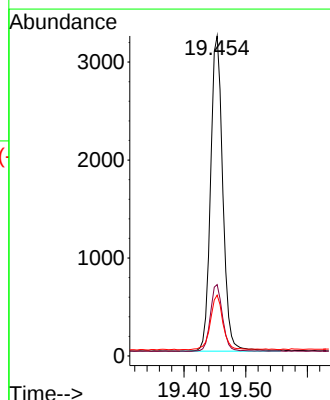
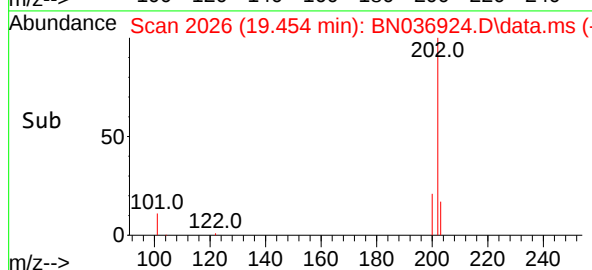
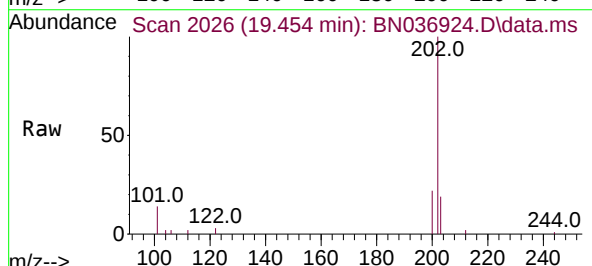
Manual Integrations  
APPROVED

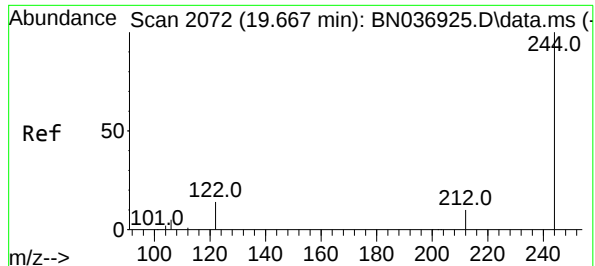
Reviewed By :Rahul Chavli 04/29/2025  
Supervised By :Jagrut Upadhyay 04/29/2025



#30  
Pyrene  
Concen: 0.200 ng  
RT: 19.454 min Scan# 2026  
Delta R.T. -0.000 min  
Lab File: BN036924.D  
Acq: 28 Apr 2025 12:11

Tgt Ion:202 Resp: 4403  
Ion Ratio Lower Upper  
202 100  
200 21.2 17.0 25.6  
203 17.8 14.0 21.0





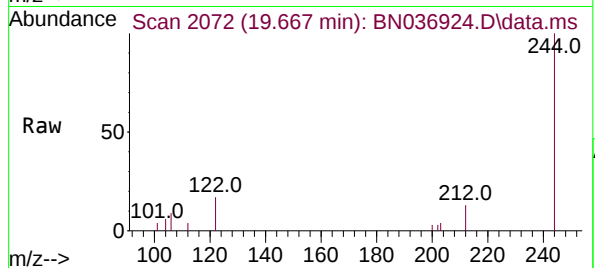
#31  
Terphenyl-d14  
Concen: 0.198 ng  
RT: 19.667 min Scan# 2072  
Delta R.T. -0.000 min  
Lab File: BN036924.D  
Acq: 28 Apr 2025 12:11

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2

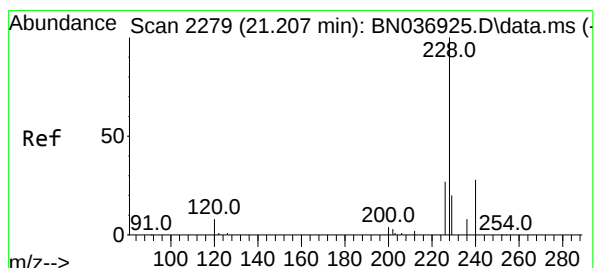
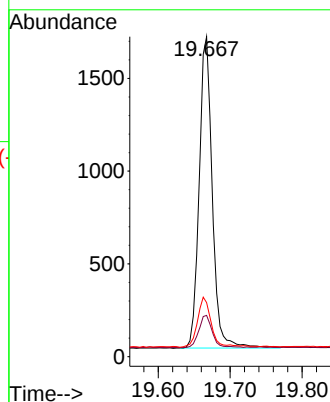
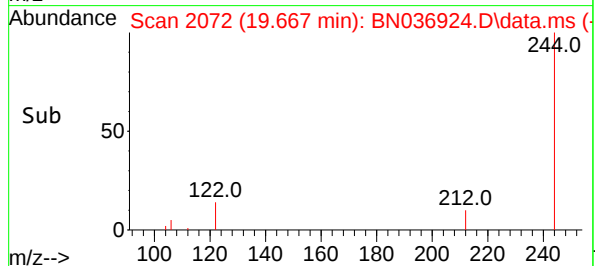


Tgt Ion:244 Resp: 2130  
Ion Ratio Lower Upper  
244 100  
212 12.9 9.6 14.4  
122 16.9 12.7 19.1

Manual Integrations

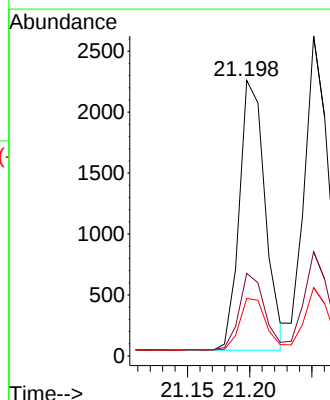
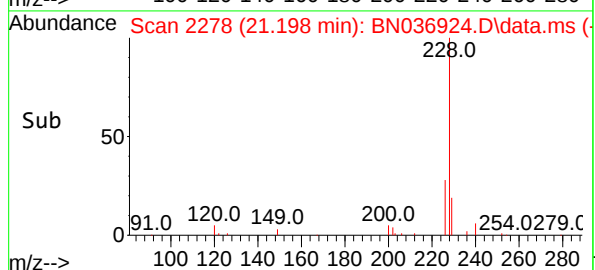
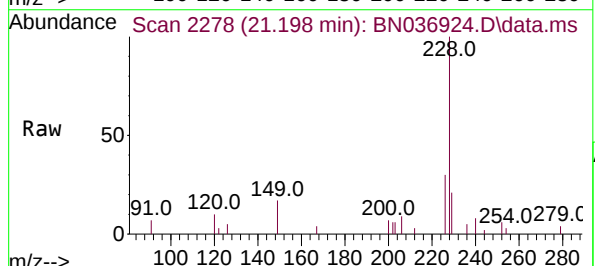
APPROVED

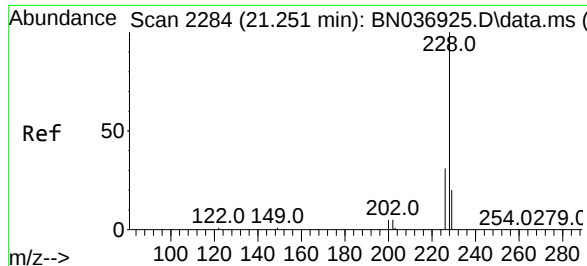
Reviewed By :Rahul Chavli 04/29/2025  
Supervised By :Jagrut Upadhyay 04/29/2025



#32  
Benzo(a)anthracene  
Concen: 0.193 ng  
RT: 21.198 min Scan# 2278  
Delta R.T. -0.009 min  
Lab File: BN036924.D  
Acq: 28 Apr 2025 12:11

Tgt Ion:228 Resp: 3191  
Ion Ratio Lower Upper  
228 100  
226 30.0 22.2 33.4  
229 20.9 16.4 24.6





#33

Chrysene

Concen: 0.197 ng

RT: 21.251 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036924.D

Acq: 28 Apr 2025 12:11

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2

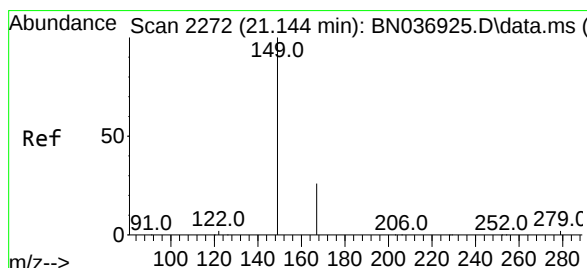
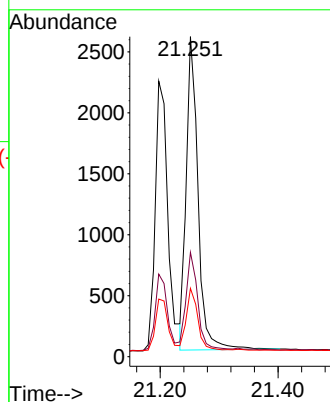
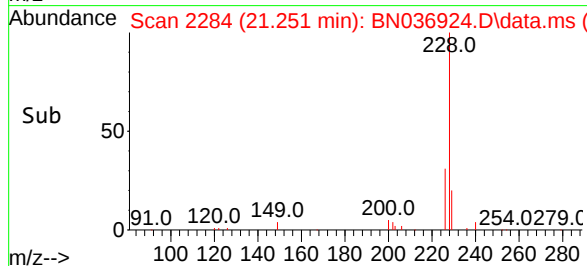
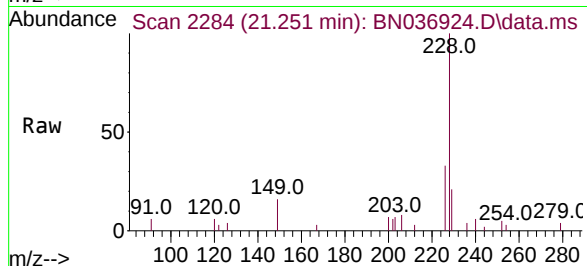
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 228   | Resp: | 3574  |
| Ion      | Ratio | Lower | Upper |
| 228      | 100   |       |       |
| 226      | 32.6  | 25.5  | 38.3  |
| 229      | 21.3  | 16.5  | 24.7  |

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 04/29/2025

Supervised By :Jagrut Upadhyay 04/29/2025



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.203 ng

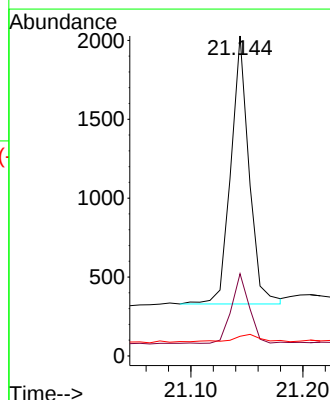
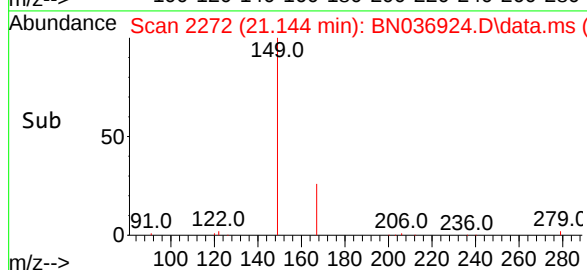
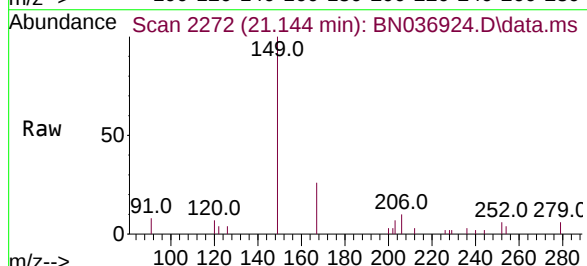
RT: 21.144 min Scan# 2272

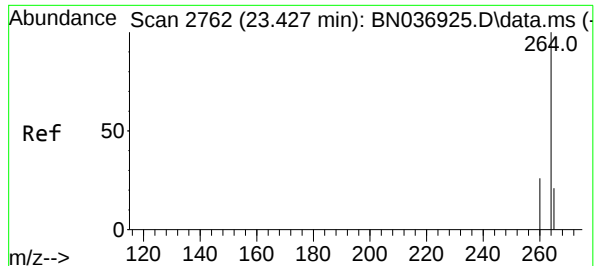
Delta R.T. -0.000 min

Lab File: BN036924.D

Acq: 28 Apr 2025 12:11

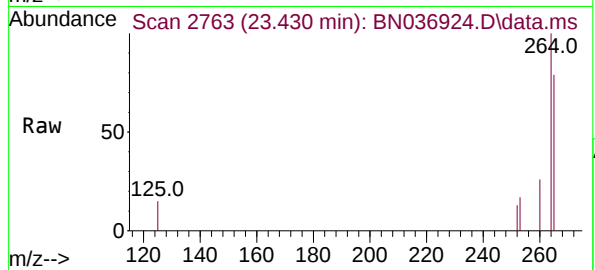
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 149   | Resp: | 1921  |
| Ion      | Ratio | Lower | Upper |
| 149      | 100   |       |       |
| 167      | 25.4  | 21.0  | 31.6  |
| 279      | 3.9   | 2.7   | 4.1   |





#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.430 min Scan# 21  
Delta R.T. 0.003 min  
Lab File: BN036924.D  
Acq: 28 Apr 2025 12:11

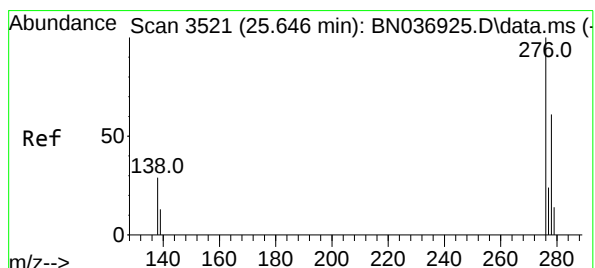
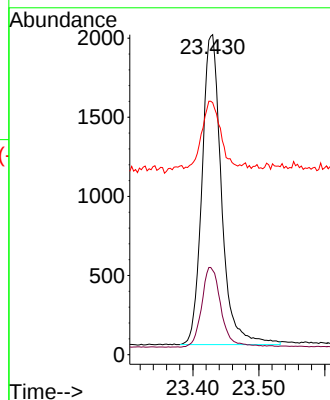
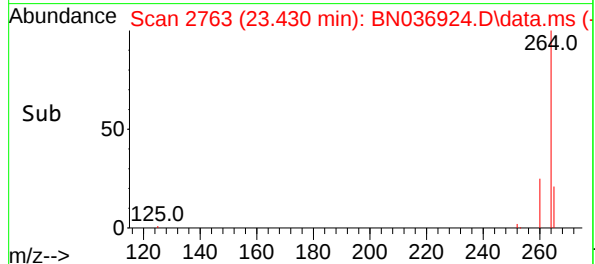
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2



Tgt Ion:264 Resp: 4020  
Ion Ratio Lower Upper  
264 100  
260 26.4 22.2 33.2  
265 78.7 65.8 98.6

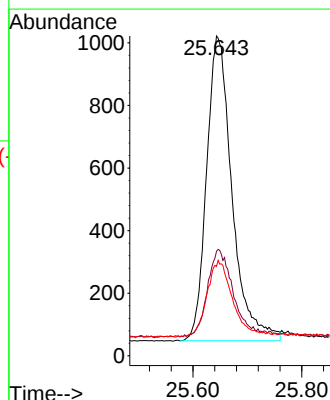
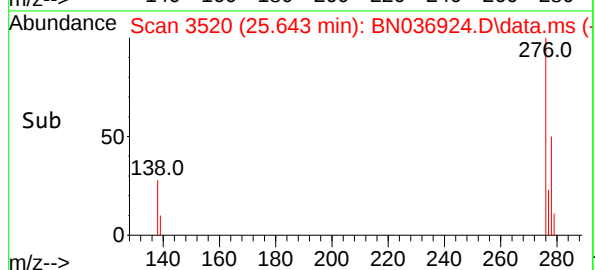
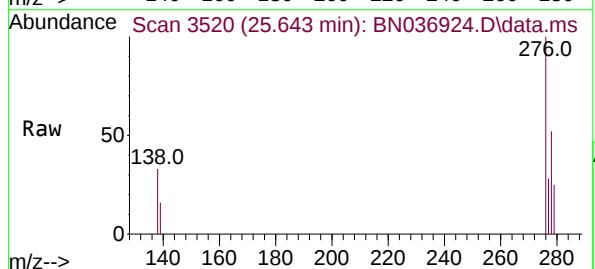
Manual Integrations  
APPROVED

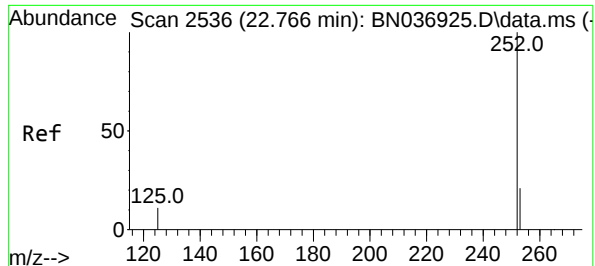
Reviewed By :Rahul Chavli 04/29/2025  
Supervised By :Jagrut Upadhyay 04/29/2025



#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.192 ng  
RT: 25.643 min Scan# 3520  
Delta R.T. -0.003 min  
Lab File: BN036924.D  
Acq: 28 Apr 2025 12:11

Tgt Ion:276 Resp: 3163  
Ion Ratio Lower Upper  
276 100  
138 28.4 23.0 34.6  
277 25.2 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 0.187 ng

RT: 22.766 min Scan# 2536

Delta R.T. -0.000 min

Lab File: BN036924.D

Acq: 28 Apr 2025 12:11

Instrument :

BNA\_N

ClientSampleId :

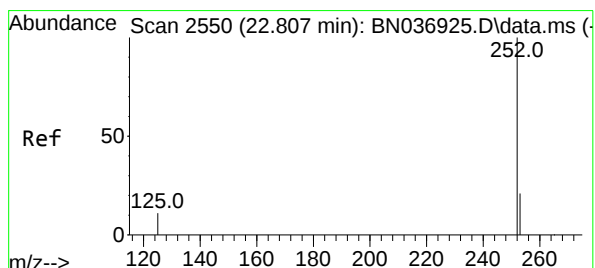
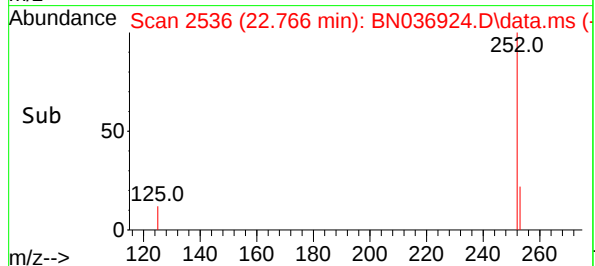
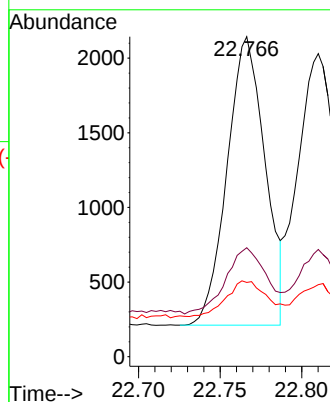
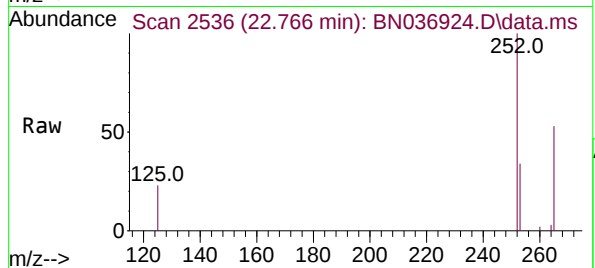
SSTDICC0.2

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:252 | Resp: | 3124      |
| Ion Ratio   | Lower | Upper     |
| 252         | 100   |           |
| 253         | 34.0  | 22.1 33.1 |
| 125         | 23.2  | 14.2 21.2 |

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 04/29/2025  
Supervised By :Jagrut Upadhyay 04/29/2025



#38

Benzo(k)fluoranthene

Concen: 0.187 ng

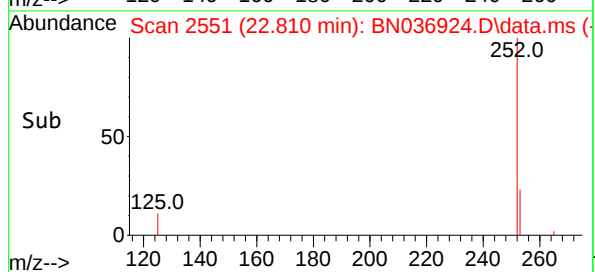
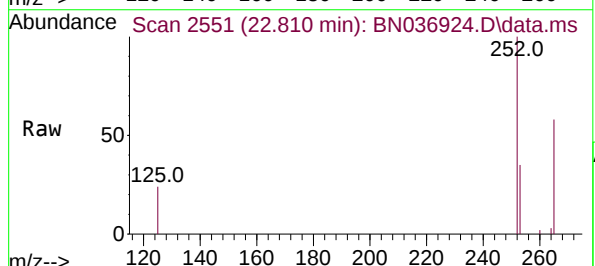
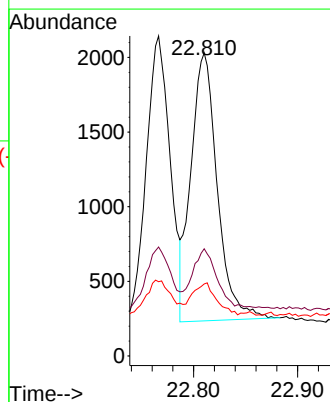
RT: 22.810 min Scan# 2551

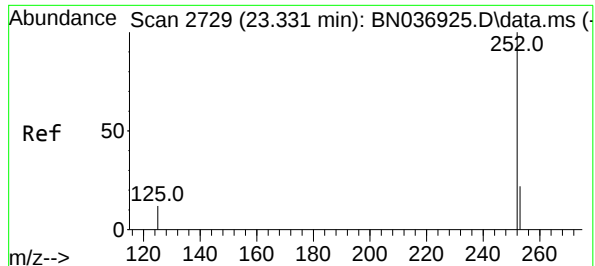
Delta R.T. 0.003 min

Lab File: BN036924.D

Acq: 28 Apr 2025 12:11

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:252 | Resp: | 3158      |
| Ion Ratio   | Lower | Upper     |
| 252         | 100   |           |
| 253         | 35.4  | 22.8 34.2 |
| 125         | 23.8  | 14.2 21.2 |





#39

Benzo(a)pyrene

Concen: 0.190 ng

RT: 23.328 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN036924.D

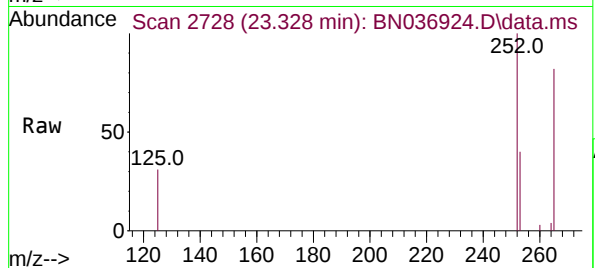
Acq: 28 Apr 2025 12:11

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2



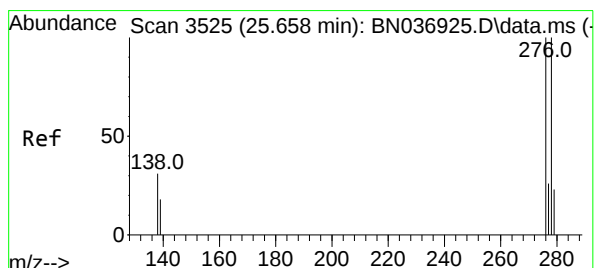
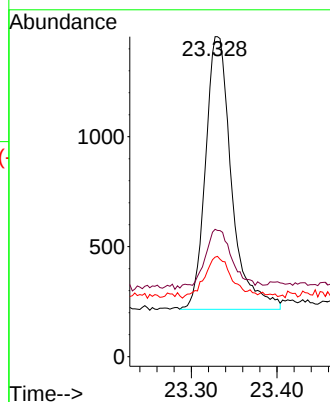
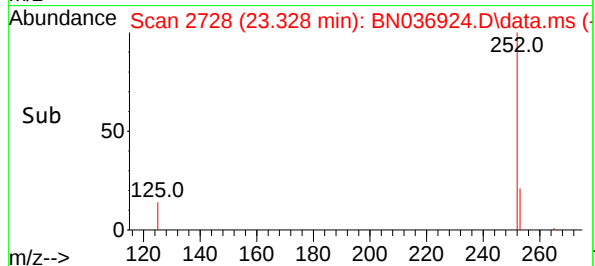
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 252   | Resp: | 2619 |
| Ion Ratio | Lower | Upper |      |
| 252       | 100   |       |      |
| 253       | 39.8  | 25.9  | 38.9 |
| 125       | 31.1  | 17.4  | 26.0 |

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 04/29/2025

Supervised By :Jagrut Upadhyay 04/29/2025



#40

Dibenzo(a,h)anthracene

Concen: 0.193 ng

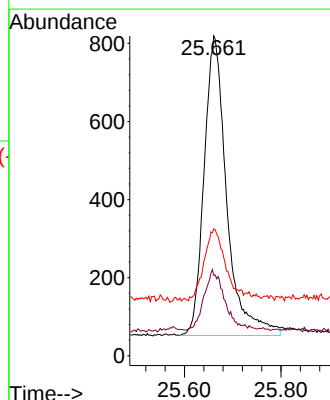
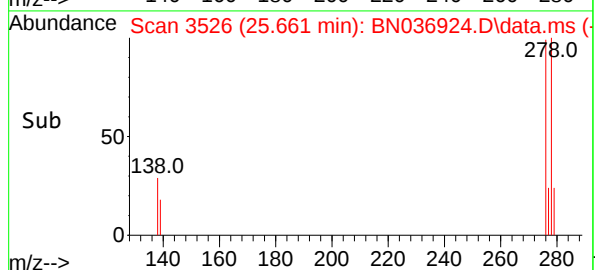
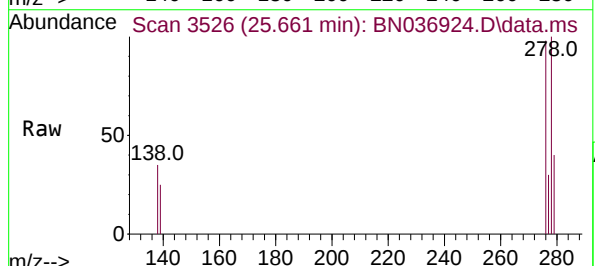
RT: 25.661 min Scan# 3526

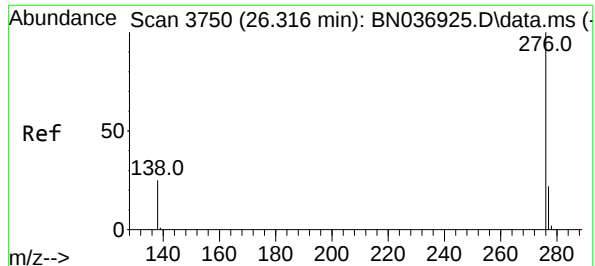
Delta R.T. 0.003 min

Lab File: BN036924.D

Acq: 28 Apr 2025 12:11

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 278   | Resp: | 2498 |
| Ion Ratio | Lower | Upper |      |
| 278       | 100   |       |      |
| 139       | 25.2  | 17.4  | 26.2 |
| 279       | 39.7  | 24.9  | 37.3 |





#41

Benzo(g,h,i)perylene

Concen: 0.195 ng

RT: 26.327 min Scan# 31

Delta R.T. 0.012 min

Lab File: BN036924.D

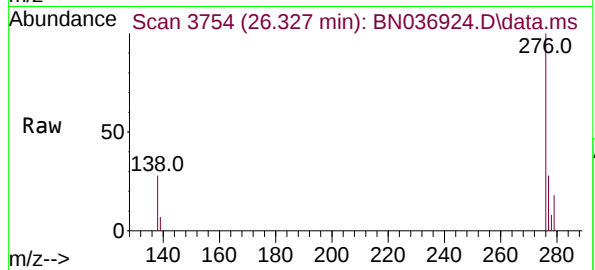
Acq: 28 Apr 2025 12:11

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2



Tgt Ion:276 Resp: 2828

Ion Ratio Lower Upper

276 100

277 28.3 20.2 30.2

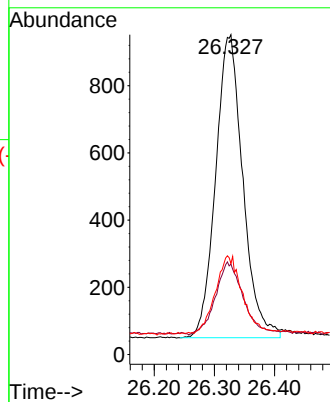
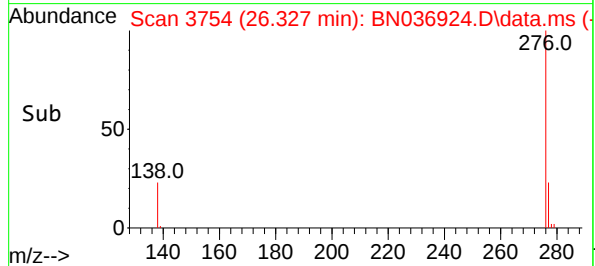
138 28.5 21.9 32.9

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 04/29/2025

Supervised By :Jagrut Upadhyay 04/29/2025



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN042825\  
 Data File : BN036925.D  
 Acq On : 28 Apr 2025 12:47  
 Operator : RC/JU  
 Sample : SSTDICCC0.4  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICCC0.4

Quant Time: Apr 28 15:12:49 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN042825.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Apr 28 15:11:09 2025  
 Response via : Initial Calibration

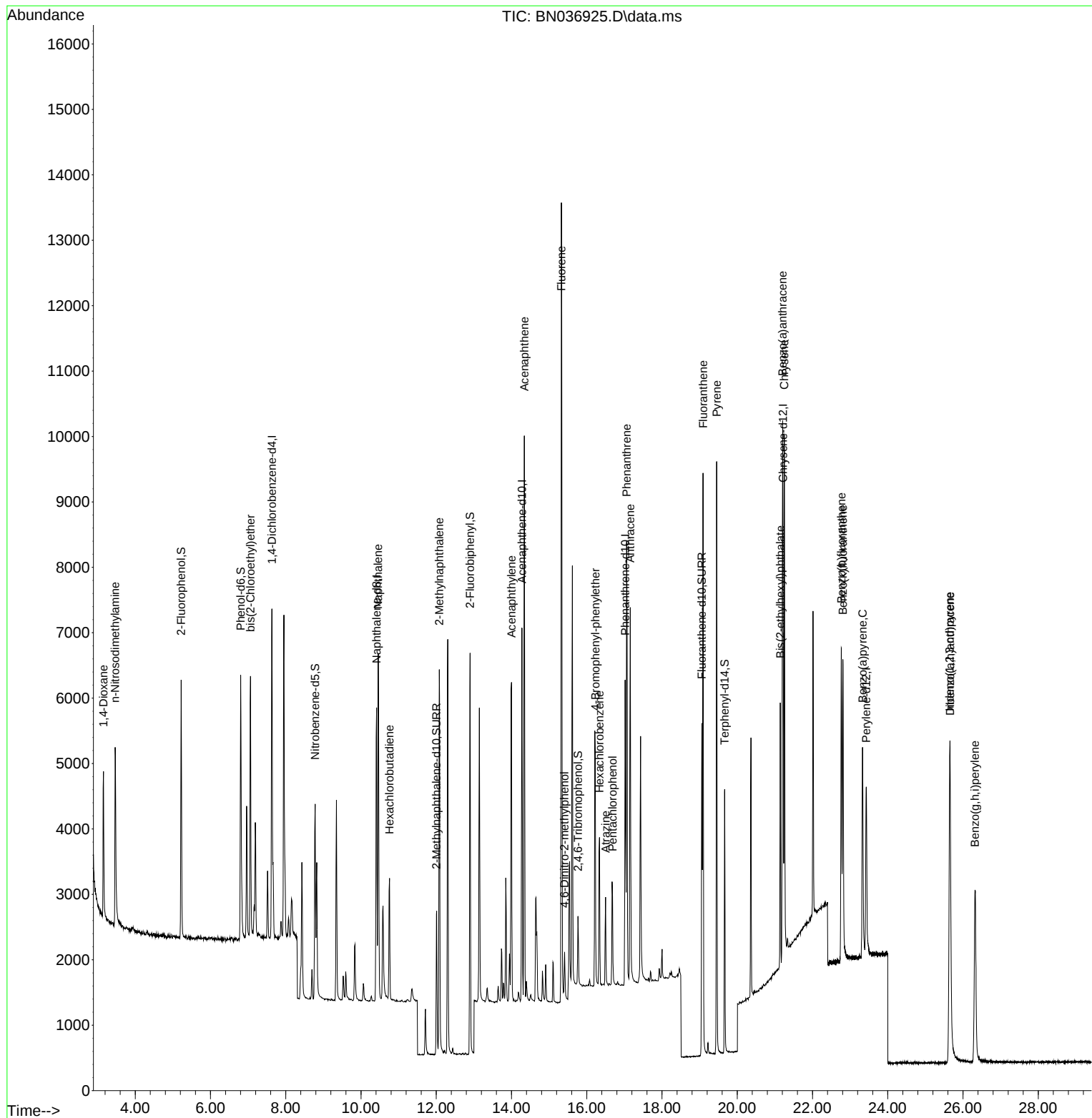
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.633  | 152  | 2374     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.415 | 136  | 5831     | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 14.277 | 164  | 3051     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 17.021 | 188  | 5711     | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 21.216 | 240  | 4119     | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.427 | 264  | 3630     | 0.400 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.221  | 112  | 2654     | 0.433 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.802  | 99   | 3175     | 0.425 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.781  | 82   | 2394     | 0.395 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 12.006 | 152  | 3153     | 0.390 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.767 | 330  | 540      | 0.404 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.899 | 172  | 6270     | 0.425 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 19.059 | 212  | 5661     | 0.387 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.667 | 244  | 3895     | 0.397 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
|                               |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.155  | 88   | 1309     | 0.437 | ng    | 100      |
| 3) n-Nitrosodimethylamine     | 3.466  | 42   | 2398     | 0.414 | ng    | 100      |
| 6) bis(2-Chloroethyl)ether    | 7.062  | 93   | 2778     | 0.401 | ng    | 100      |
| 9) Naphthalene                | 10.458 | 128  | 6735     | 0.397 | ng    | 100      |
| 10) Hexachlorobutadiene       | 10.757 | 225  | 1476     | 0.399 | ng    | # 100    |
| 12) 2-Methylnaphthalene       | 12.082 | 142  | 4195     | 0.386 | ng    | 100      |
| 16) Acenaphthylene            | 13.999 | 152  | 5817     | 0.394 | ng    | 100      |
| 17) Acenaphthene              | 14.342 | 154  | 3889     | 0.398 | ng    | 100      |
| 18) Fluorene                  | 15.325 | 166  | 4955     | 0.390 | ng    | 100      |
| 20) 4,6-Dinitro-2-methylph... | 15.411 | 198  | 516      | 0.361 | ng    | 100      |
| 21) 4-Bromophenyl-phenylether | 16.227 | 248  | 1494     | 0.393 | ng    | 100      |
| 22) Hexachlorobenzene         | 16.338 | 284  | 1714     | 0.408 | ng    | 100      |
| 23) Atrazine                  | 16.500 | 200  | 1139     | 0.380 | ng    | 100      |
| 24) Pentachlorophenol         | 16.686 | 266  | 824      | 0.378 | ng    | 100      |
| 25) Phenanthrene              | 17.058 | 178  | 7417     | 0.395 | ng    | 100      |
| 26) Anthracene                | 17.158 | 178  | 6553     | 0.390 | ng    | 100      |
| 28) Fluoranthene              | 19.091 | 202  | 7988     | 0.384 | ng    | 100      |
| 30) Pyrene                    | 19.454 | 202  | 8067     | 0.403 | ng    | 100      |
| 32) Benzo(a)anthracene        | 21.207 | 228  | 5885     | 0.392 | ng    | 100      |
| 33) Chrysene                  | 21.251 | 228  | 6742     | 0.410 | ng    | 100      |
| 34) Bis(2-ethylhexyl)phtha... | 21.144 | 149  | 3434     | 0.400 | ng    | 100      |
| 36) Indeno(1,2,3-cd)pyrene    | 25.646 | 276  | 6214     | 0.418 | ng    | 100      |
| 37) Benzo(b)fluoranthene      | 22.766 | 252  | 5932     | 0.394 | ng    | 100      |
| 38) Benzo(k)fluoranthene      | 22.807 | 252  | 5983     | 0.393 | ng    | 100      |
| 39) Benzo(a)pyrene            | 23.331 | 252  | 4940     | 0.398 | ng    | 100      |
| 40) Dibenzo(a,h)anthracene    | 25.658 | 278  | 4897     | 0.419 | ng    | 100      |
| 41) Benzo(g,h,i)perylene      | 26.316 | 276  | 5500     | 0.420 | ng    | 100      |
| -----                         |        |      |          |       |       |          |

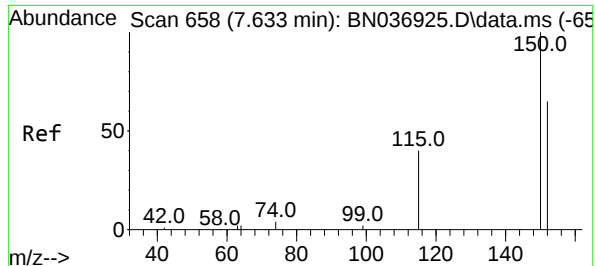
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN042825\  
Data File : BN036925.D  
Acq On : 28 Apr 2025 12:47  
Operator : RC/JU  
Sample : SSTDICCC0.4  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

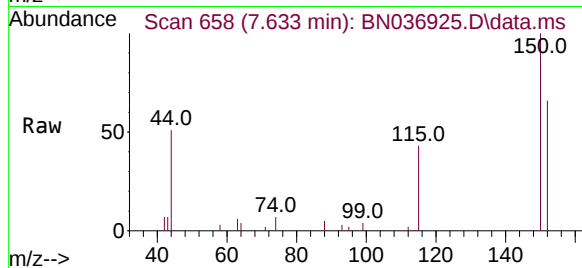
Quant Time: Apr 28 15:12:49 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN042825.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Apr 28 15:11:09 2025  
Response via : Initial Calibration



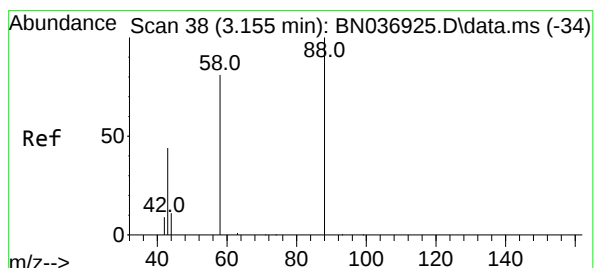
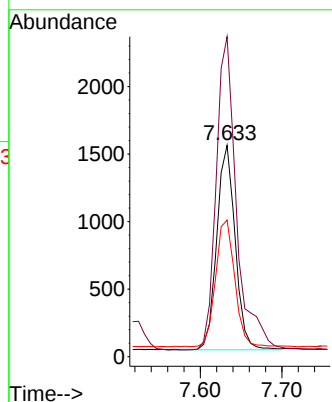
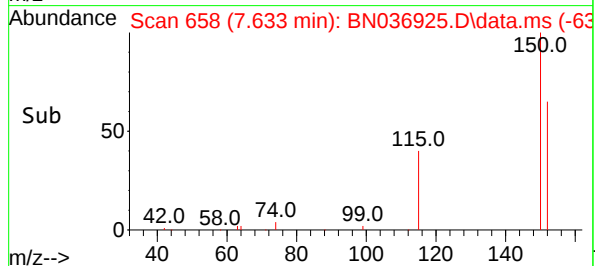


#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.633 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: BN036925.D  
Acq: 28 Apr 2025 12:47

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

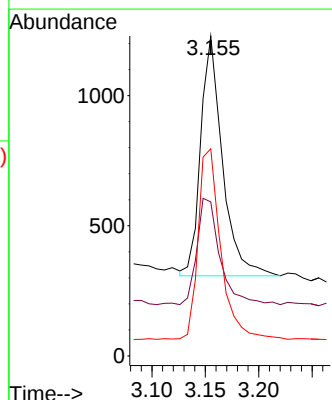
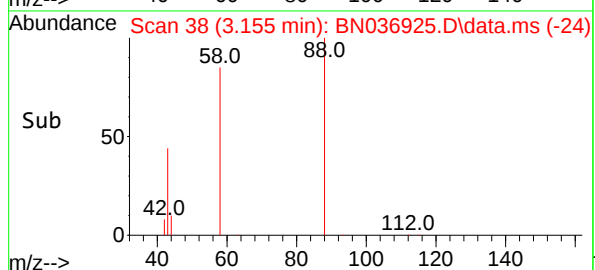
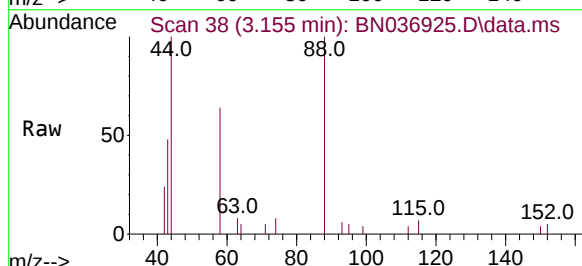


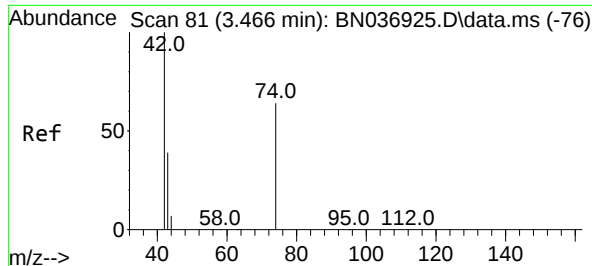
Tgt Ion:152 Resp: 2374  
Ion Ratio Lower Upper  
152 100  
150 151.4 121.1 181.7  
115 64.7 51.8 77.6



#2  
1,4-Dioxane  
Concen: 0.437 ng  
RT: 3.155 min Scan# 38  
Delta R.T. 0.000 min  
Lab File: BN036925.D  
Acq: 28 Apr 2025 12:47

Tgt Ion: 88 Resp: 1309  
Ion Ratio Lower Upper  
88 100  
43 47.4 37.9 56.9  
58 82.2 65.8 98.6

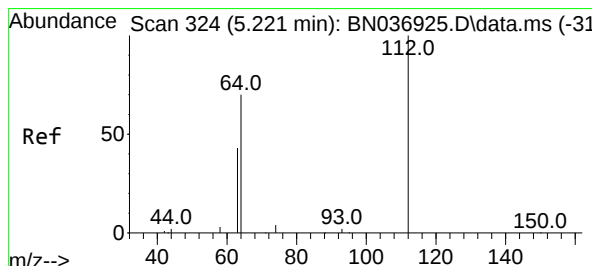
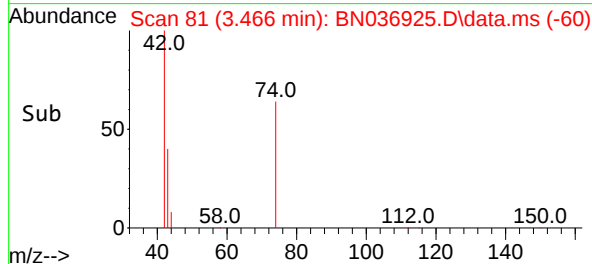
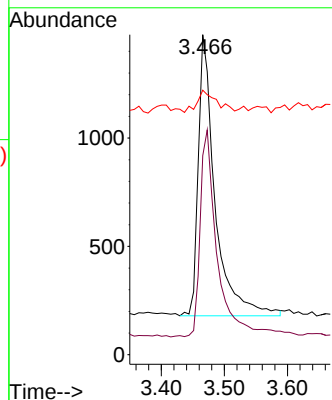
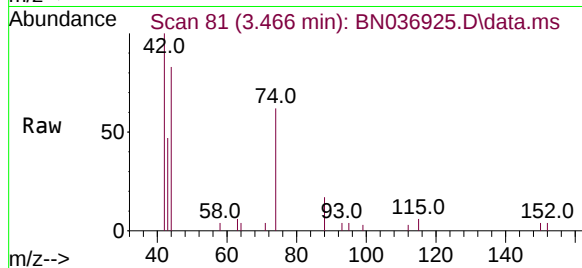




#3  
n-Nitrosodimethylamine  
Concen: 0.414 ng  
RT: 3.466 min Scan# 81  
Delta R.T. 0.000 min  
Lab File: BN036925.D  
Acq: 28 Apr 2025 12:47

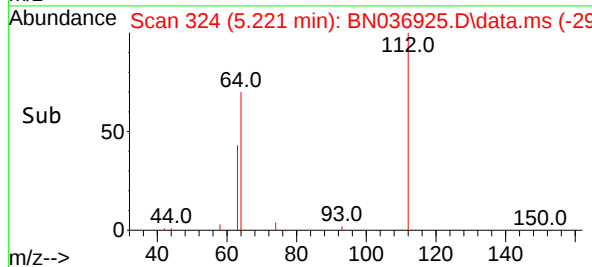
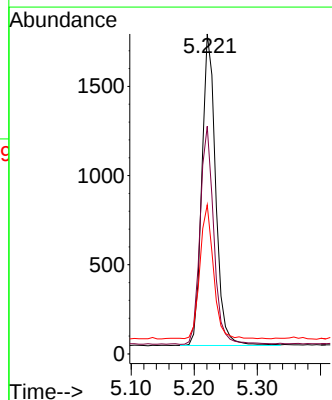
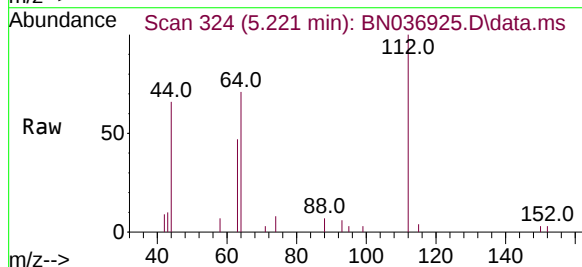
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

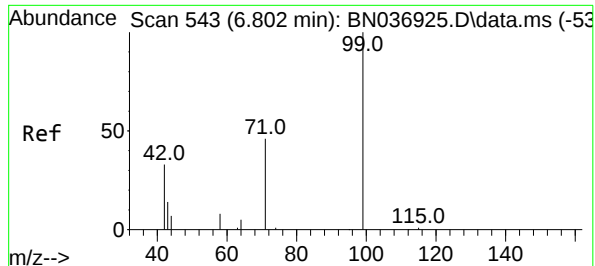
Tgt Ion: 42 Resp: 2398  
Ion Ratio Lower Upper  
42 100  
74 74.9 59.9 89.9  
44 9.4 7.5 11.3



#4  
2-Fluorophenol  
Concen: 0.433 ng  
RT: 5.221 min Scan# 324  
Delta R.T. 0.000 min  
Lab File: BN036925.D  
Acq: 28 Apr 2025 12:47

Tgt Ion: 112 Resp: 2654  
Ion Ratio Lower Upper  
112 100  
64 69.6 55.7 83.5  
63 42.4 33.9 50.9





#5

Phenol-d6

Concen: 0.425 ng

RT: 6.802 min Scan# 543

Delta R.T. 0.000 min

Lab File: BN036925.D

Acq: 28 Apr 2025 12:47

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

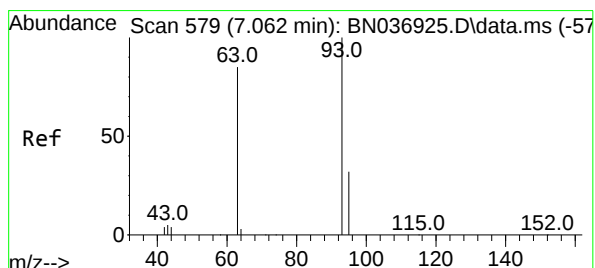
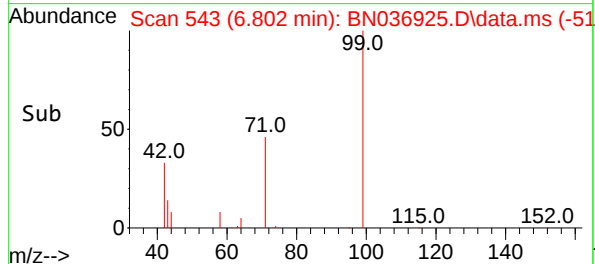
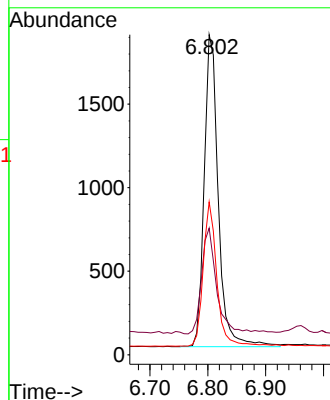
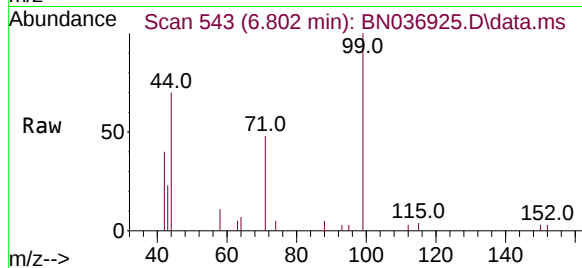
Tgt Ion: 99 Resp: 3175

Ion Ratio Lower Upper

99 100

42 37.0 29.6 44.4

71 45.0 36.0 54.0



#6

bis(2-Chloroethyl)ether

Concen: 0.401 ng

RT: 7.062 min Scan# 579

Delta R.T. 0.000 min

Lab File: BN036925.D

Acq: 28 Apr 2025 12:47

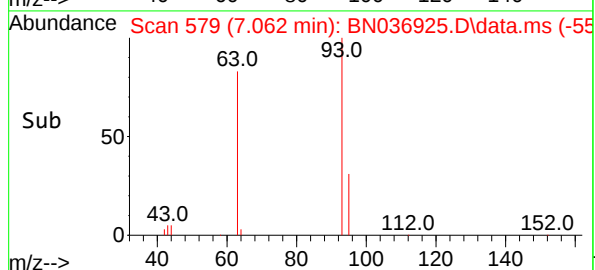
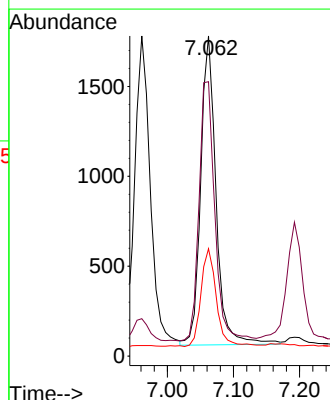
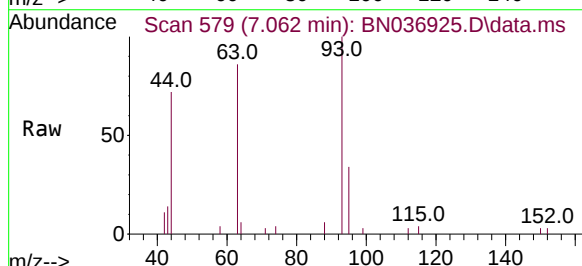
Tgt Ion: 93 Resp: 2778

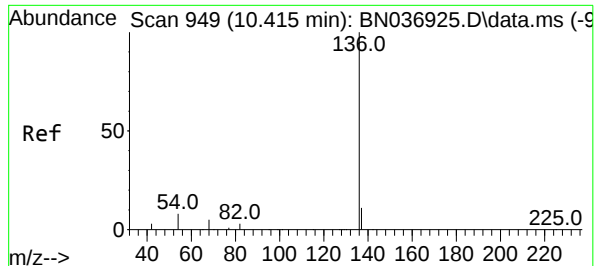
Ion Ratio Lower Upper

93 100

63 86.3 69.0 103.6

95 31.7 25.4 38.0

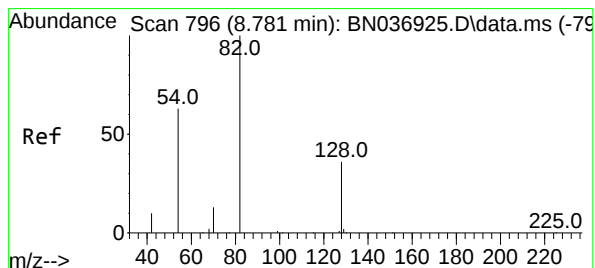
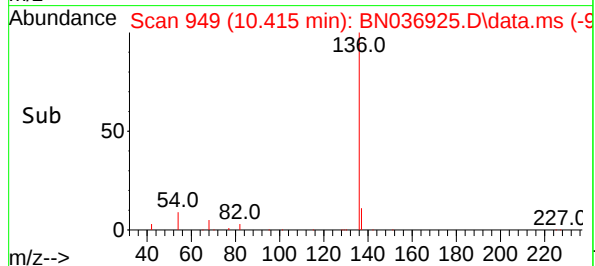
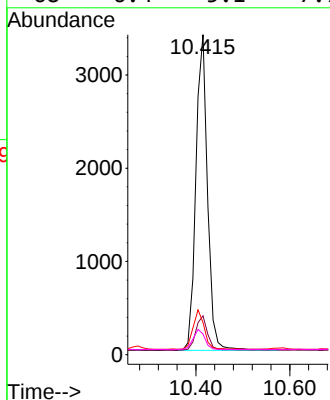
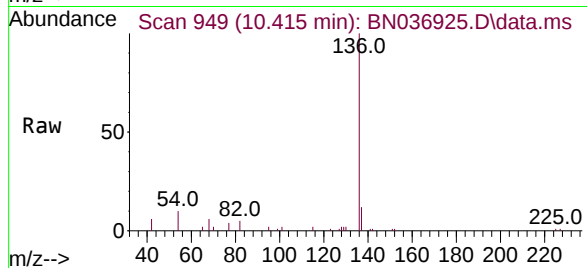




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.415 min Scan# 949  
Delta R.T. 0.000 min  
Lab File: BN036925.D  
Acq: 28 Apr 2025 12:47

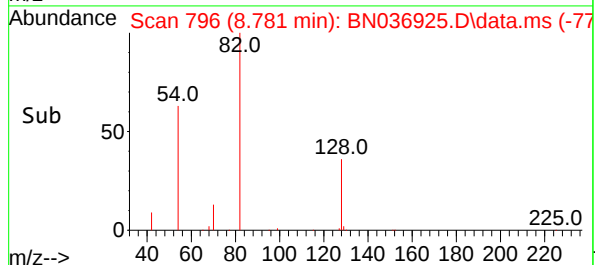
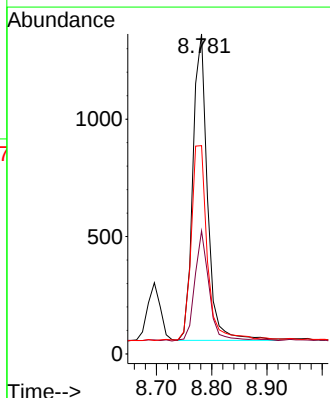
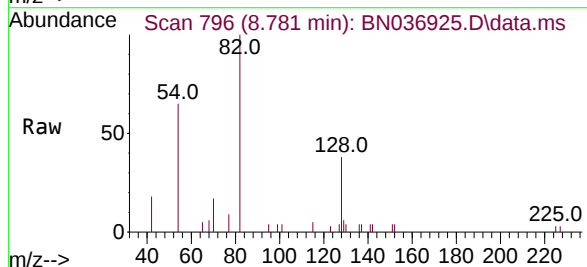
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

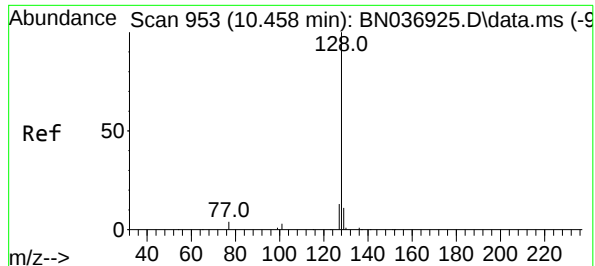
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 5831  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 12.1  | 9.7   | 14.5  |
| 54       | 10.0  | 8.0   | 12.0  |
| 68       | 6.4   | 5.1   | 7.7   |



#8  
Nitrobenzene-d5  
Concen: 0.395 ng  
RT: 8.781 min Scan# 796  
Delta R.T. 0.000 min  
Lab File: BN036925.D  
Acq: 28 Apr 2025 12:47

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 2394  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 38.4  | 30.7  | 46.1  |
| 54       | 65.1  | 52.1  | 78.1  |



#9  
Naphthalene

Concen: 0.397 ng

RT: 10.458 min Scan# 953

Delta R.T. 0.000 min

Lab File: BN036925.D

Acq: 28 Apr 2025 12:47

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

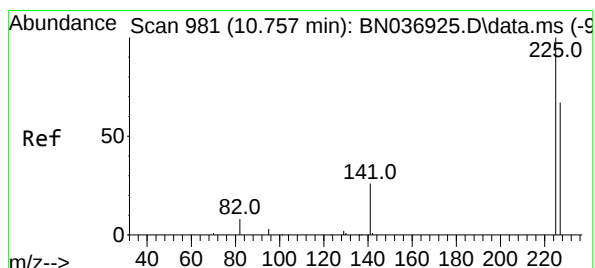
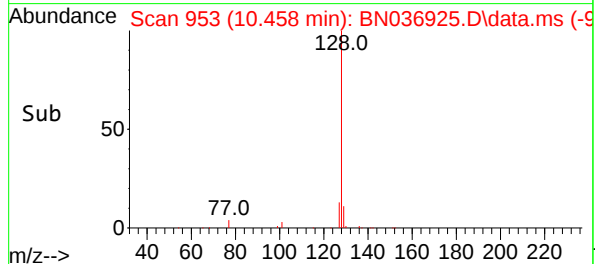
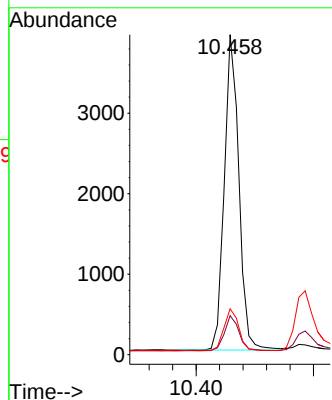
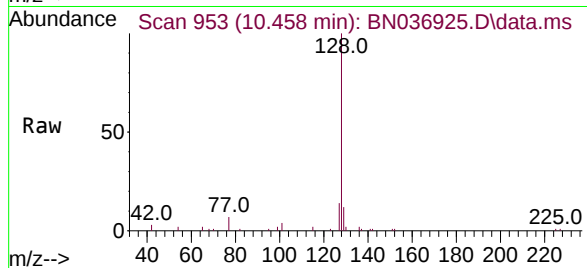
Tgt Ion:128 Resp: 6735

Ion Ratio Lower Upper

128 100

129 12.2 9.8 14.6

127 14.3 11.4 17.2



## #10

Hexachlorobutadiene

Concen: 0.399 ng

RT: 10.757 min Scan# 981

Delta R.T. 0.000 min

Lab File: BN036925.D

Acq: 28 Apr 2025 12:47

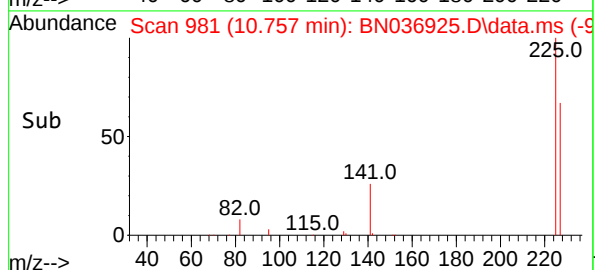
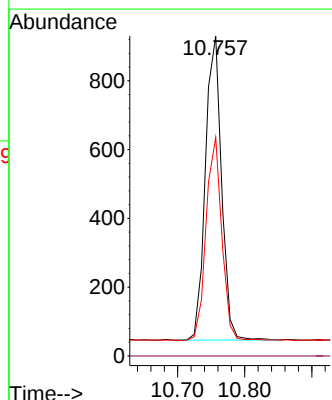
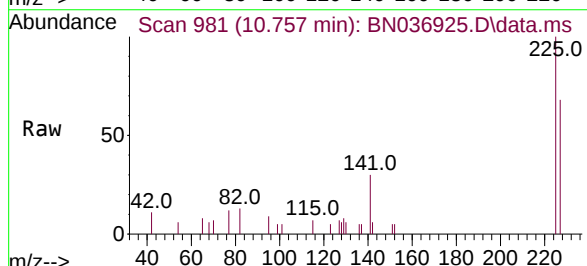
Tgt Ion:225 Resp: 1476

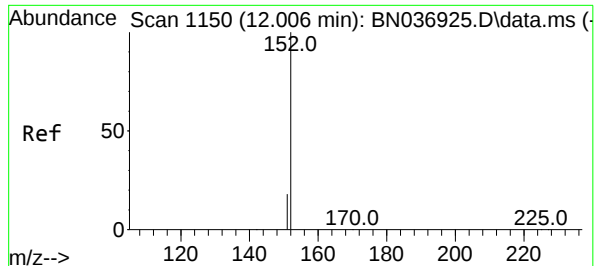
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 65.3 52.2 78.4

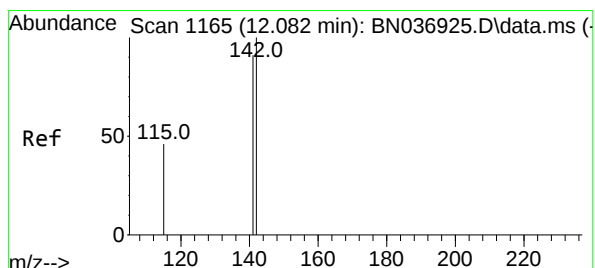
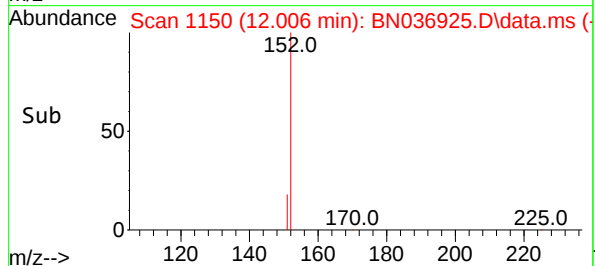
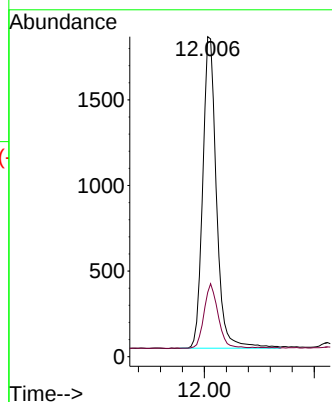
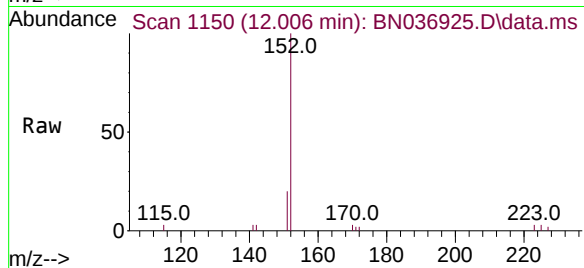




#11  
2-Methylnaphthalene-d10  
Concen: 0.390 ng  
RT: 12.006 min Scan# 1150  
Delta R.T. 0.000 min  
Lab File: BN036925.D  
Acq: 28 Apr 2025 12:47

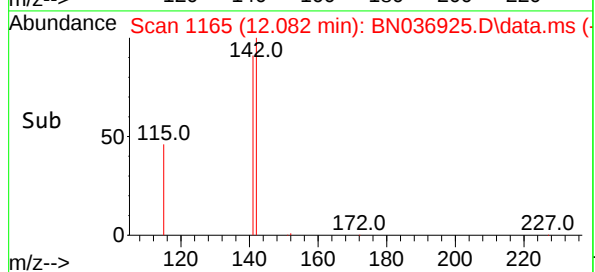
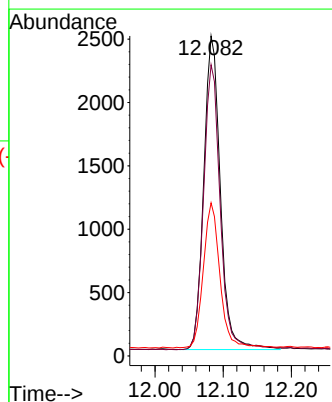
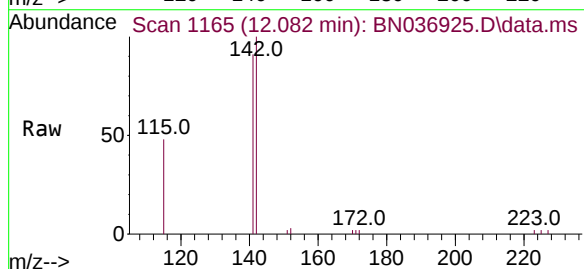
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

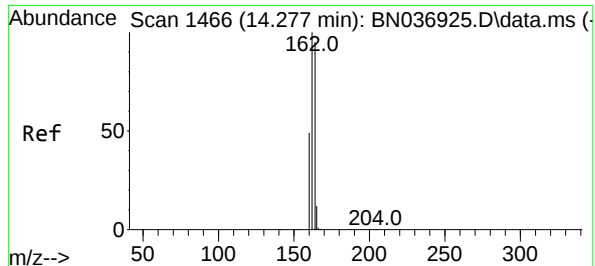
Tgt Ion:152 Resp: 3153  
Ion Ratio Lower Upper  
152 100  
151 21.1 16.9 25.3



#12  
2-Methylnaphthalene  
Concen: 0.386 ng  
RT: 12.082 min Scan# 1165  
Delta R.T. 0.000 min  
Lab File: BN036925.D  
Acq: 28 Apr 2025 12:47

Tgt Ion:142 Resp: 4195  
Ion Ratio Lower Upper  
142 100  
141 91.0 72.8 109.2  
115 47.8 38.2 57.4

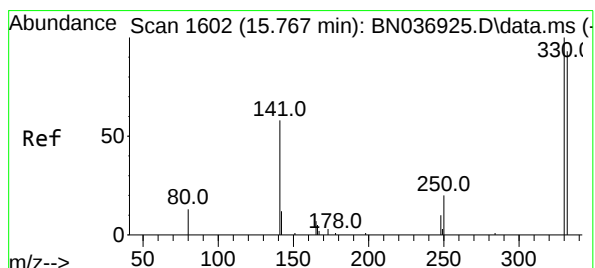
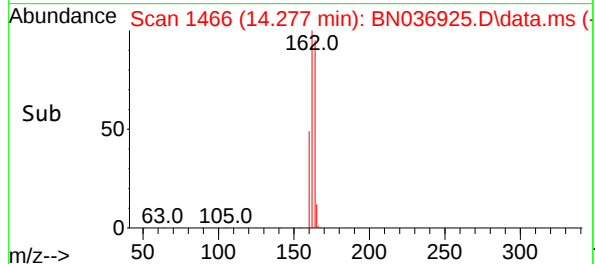
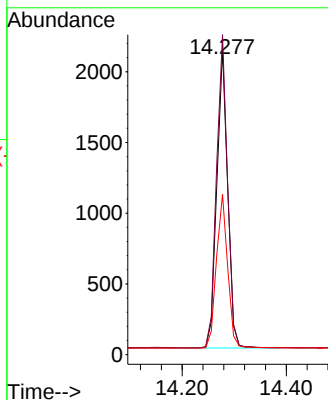
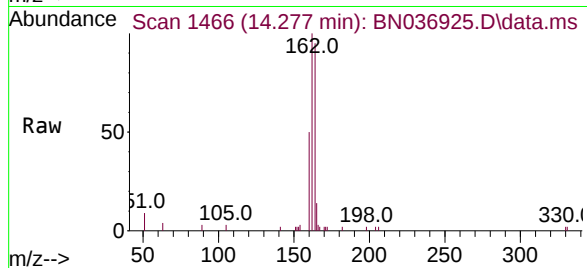




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.277 min Scan# 1466  
Delta R.T. 0.000 min  
Lab File: BN036925.D  
Acq: 28 Apr 2025 12:47

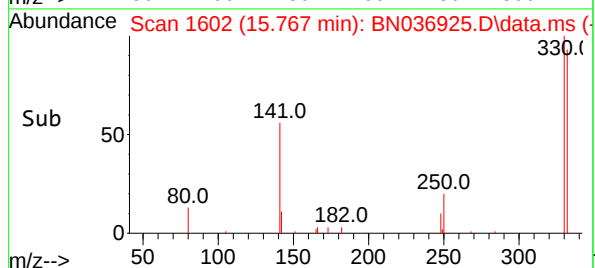
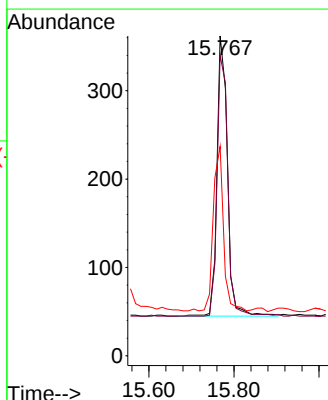
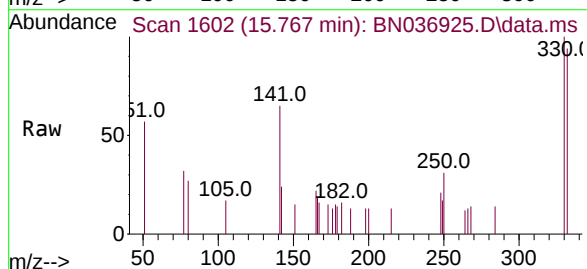
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

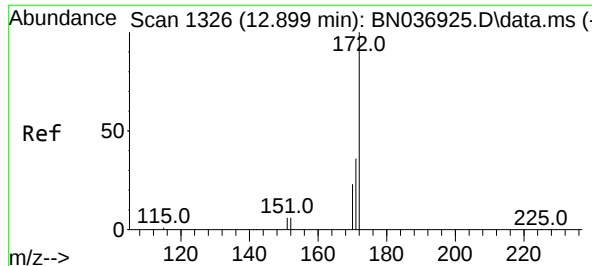
Tgt Ion:164 Resp: 3051  
Ion Ratio Lower Upper  
164 100  
162 104.8 83.8 125.8  
160 52.5 42.0 63.0



#14  
2,4,6-Tribromophenol  
Concen: 0.404 ng  
RT: 15.767 min Scan# 1602  
Delta R.T. 0.000 min  
Lab File: BN036925.D  
Acq: 28 Apr 2025 12:47

Tgt Ion:330 Resp: 540  
Ion Ratio Lower Upper  
330 100  
332 95.7 76.3 114.5  
141 57.8 45.4 68.2

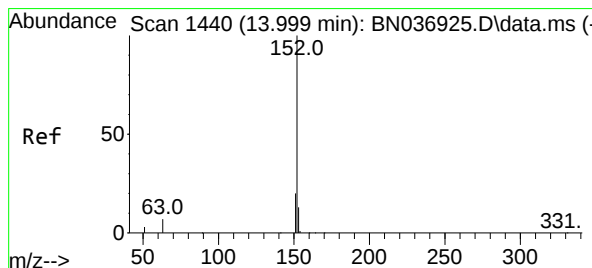
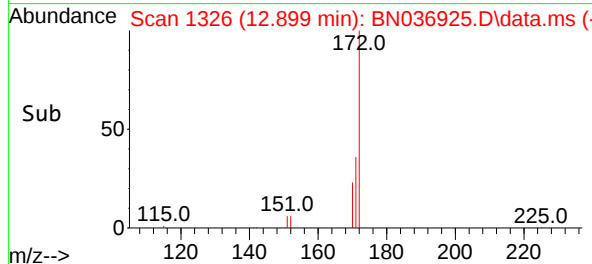
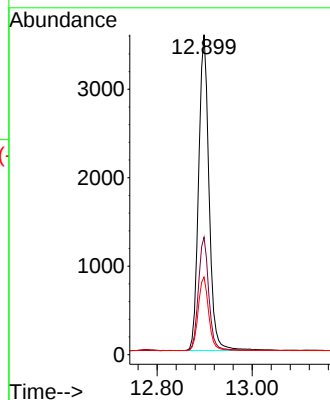
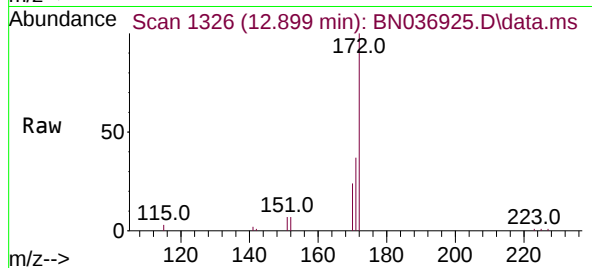




#15  
2-Fluorobiphenyl  
Concen: 0.425 ng  
RT: 12.899 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: BN036925.D  
Acq: 28 Apr 2025 12:47

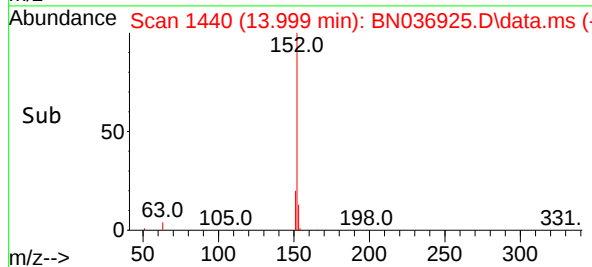
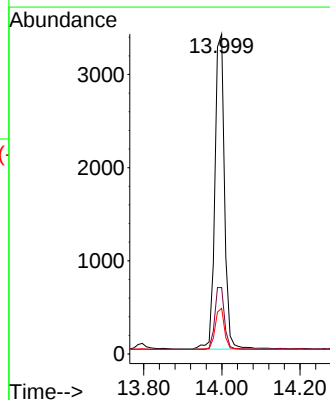
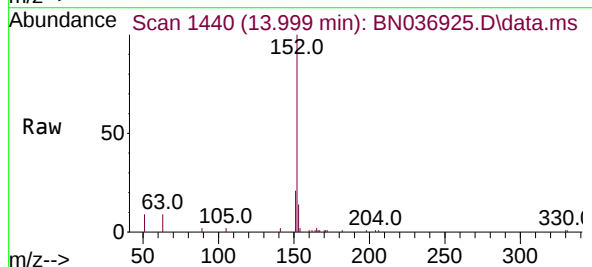
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

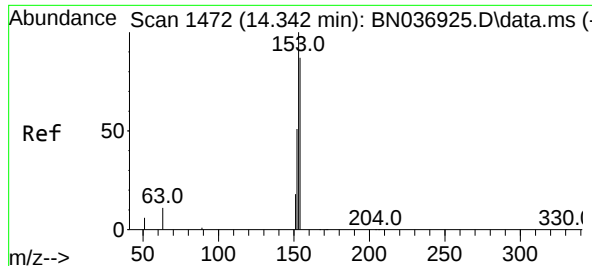
Tgt Ion:172 Resp: 6270  
Ion Ratio Lower Upper  
172 100  
171 36.7 29.4 44.0  
170 24.2 19.4 29.0



#16  
Acenaphthylene  
Concen: 0.394 ng  
RT: 13.999 min Scan# 1440  
Delta R.T. 0.000 min  
Lab File: BN036925.D  
Acq: 28 Apr 2025 12:47

Tgt Ion:152 Resp: 5817  
Ion Ratio Lower Upper  
152 100  
151 20.0 16.0 24.0  
153 12.7 10.2 15.2

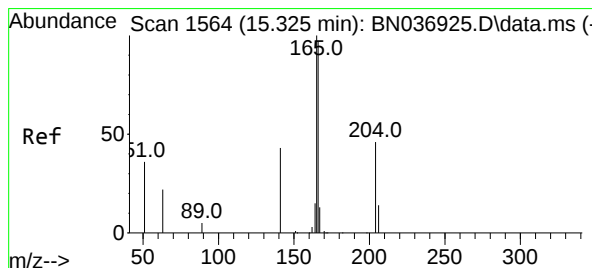
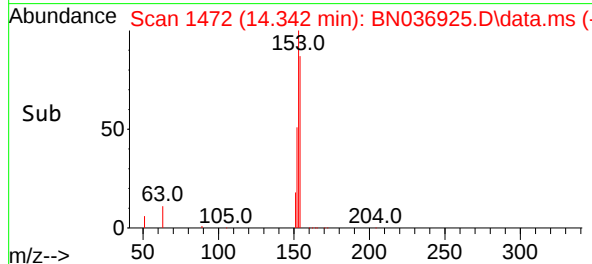
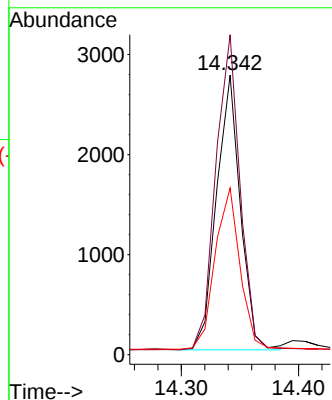
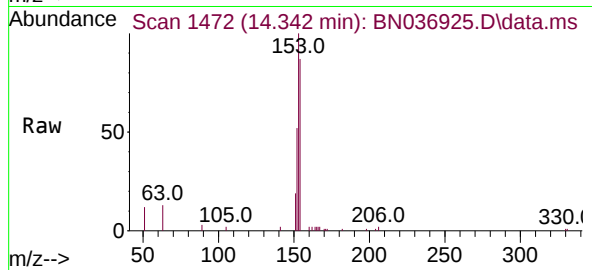




#17  
Acenaphthene  
Concen: 0.398 ng  
RT: 14.342 min Scan# 1472  
Delta R.T. 0.000 min  
Lab File: BN036925.D  
Acq: 28 Apr 2025 12:47

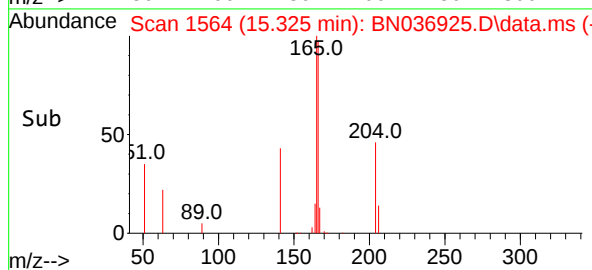
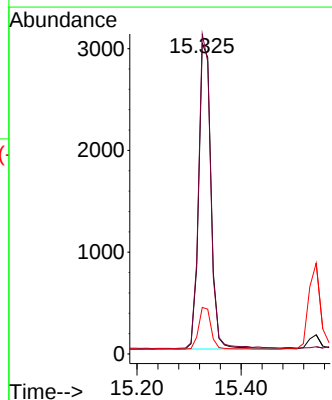
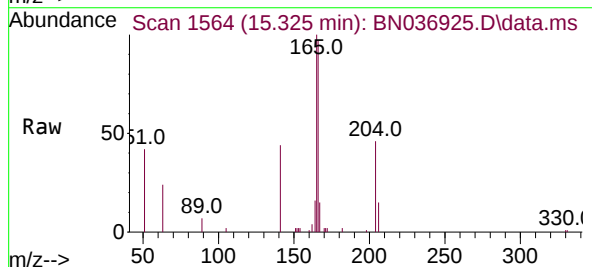
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

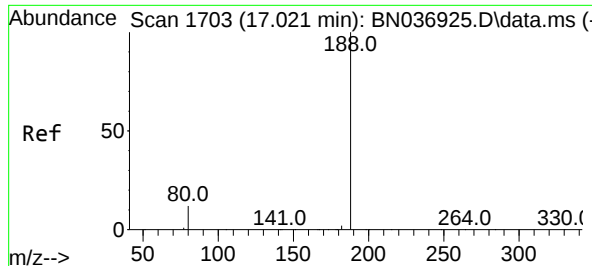
Tgt Ion:154 Resp: 3889  
Ion Ratio Lower Upper  
154 100  
153 116.8 93.4 140.2  
152 61.9 49.5 74.3



#18  
Fluorene  
Concen: 0.390 ng  
RT: 15.325 min Scan# 1564  
Delta R.T. 0.000 min  
Lab File: BN036925.D  
Acq: 28 Apr 2025 12:47

Tgt Ion:166 Resp: 4955  
Ion Ratio Lower Upper  
166 100  
165 101.0 80.8 121.2  
167 13.5 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.021 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN036925.D

Acq: 28 Apr 2025 12:47

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

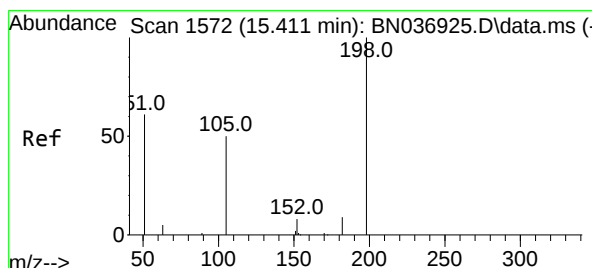
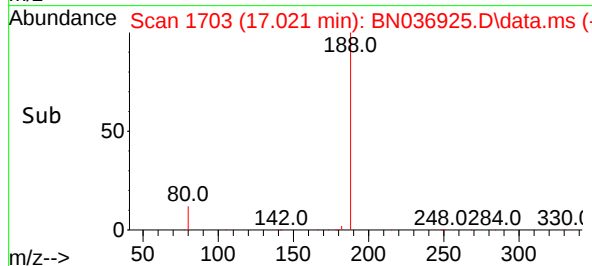
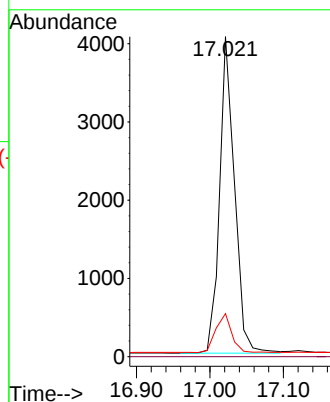
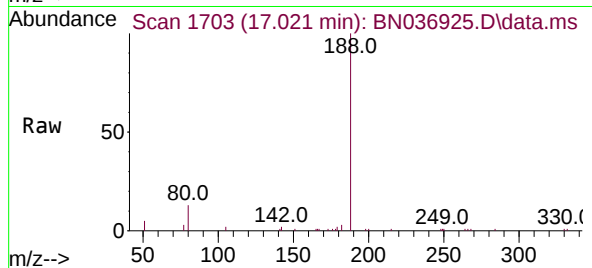
Tgt Ion:188 Resp: 5711

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 13.4 10.7 16.1



#20

4,6-Dinitro-2-methylphenol

Concen: 0.361 ng

RT: 15.411 min Scan# 1572

Delta R.T. -0.000 min

Lab File: BN036925.D

Acq: 28 Apr 2025 12:47

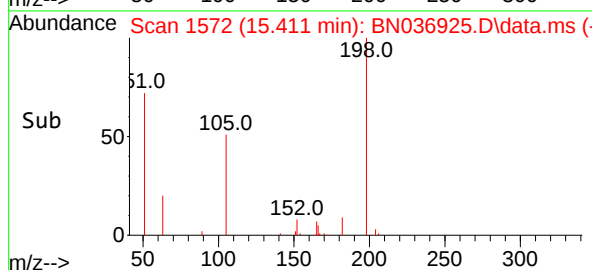
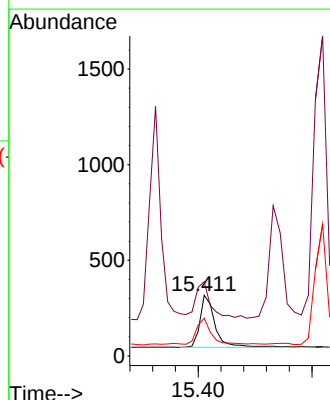
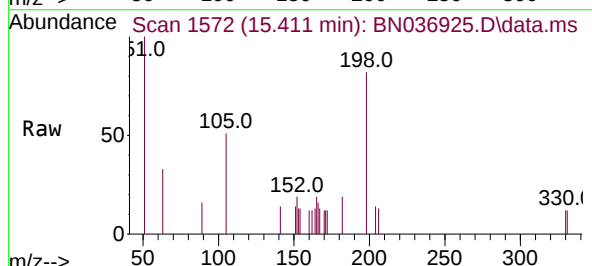
Tgt Ion:198 Resp: 516

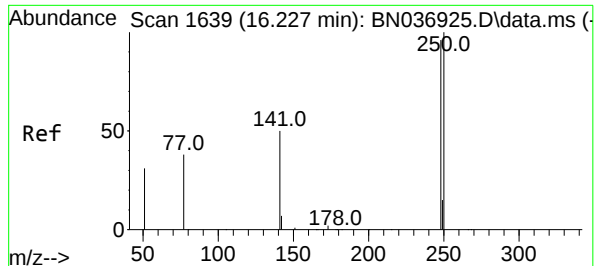
Ion Ratio Lower Upper

198 100

51 122.4 97.9 146.9

105 62.5 50.0 75.0

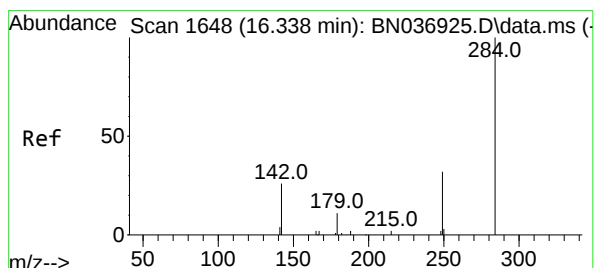
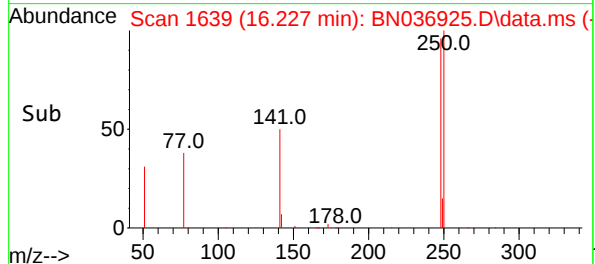
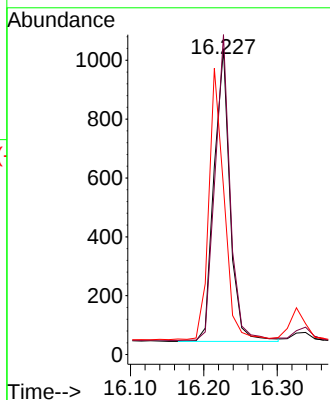
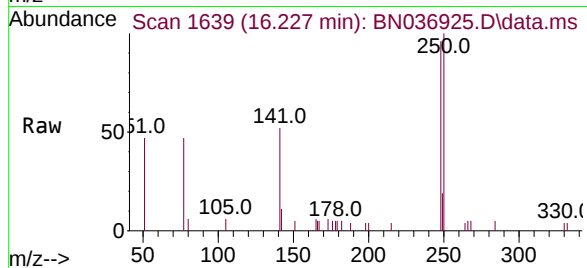




#21  
4-Bromophenyl-phenylether  
Concen: 0.393 ng  
RT: 16.227 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: BN036925.D  
Acq: 28 Apr 2025 12:47

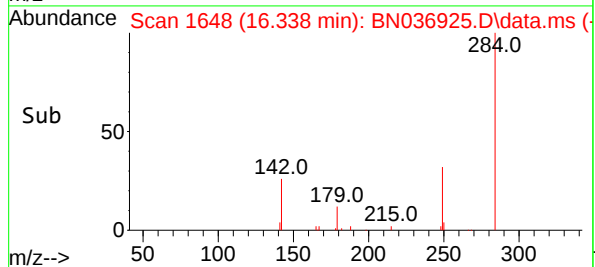
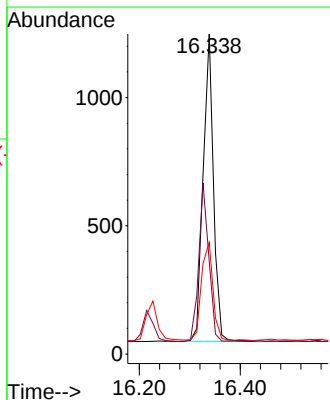
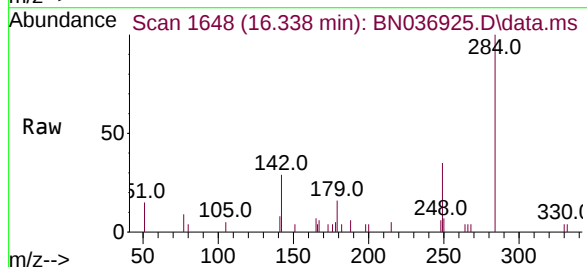
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

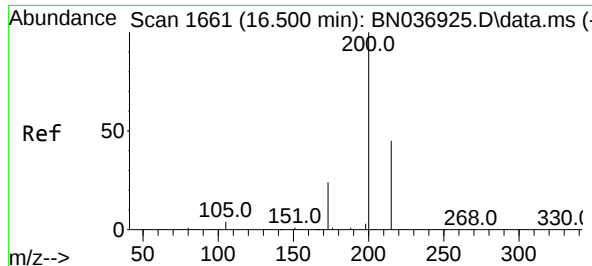
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 248     | 100   |       |       |
| 250     | 104.6 | 83.7  | 125.5 |
| 141     | 54.8  | 43.8  | 65.8  |



#22  
Hexachlorobenzene  
Concen: 0.408 ng  
RT: 16.338 min Scan# 1648  
Delta R.T. 0.000 min  
Lab File: BN036925.D  
Acq: 28 Apr 2025 12:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 284     | 100   |       |       |
| 142     | 50.0  | 40.0  | 60.0  |
| 249     | 35.2  | 28.2  | 42.2  |

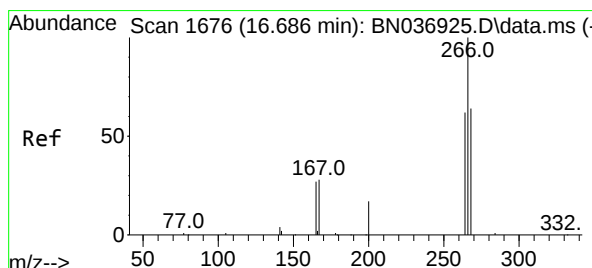
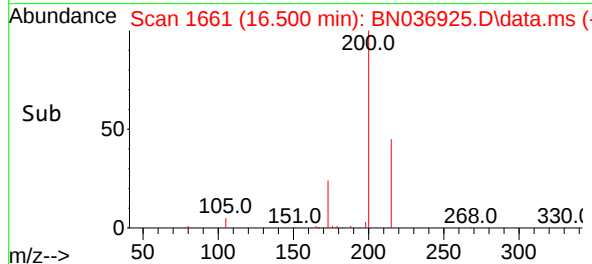
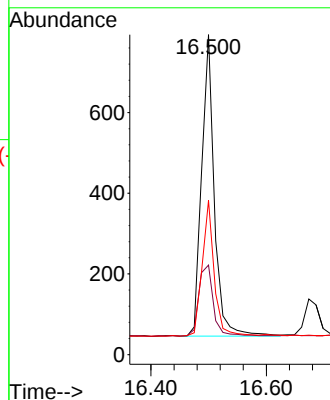
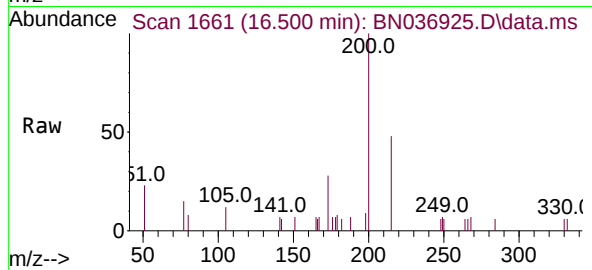




#23  
Atrazine  
Concen: 0.380 ng  
RT: 16.500 min Scan# 1661  
Delta R.T. 0.000 min  
Lab File: BN036925.D  
Acq: 28 Apr 2025 12:47

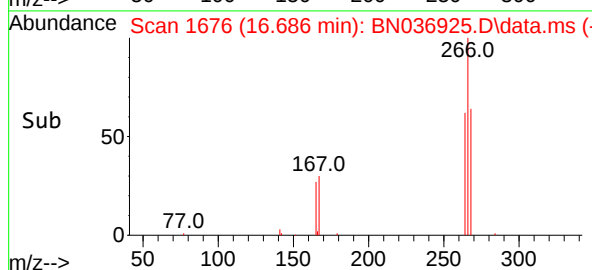
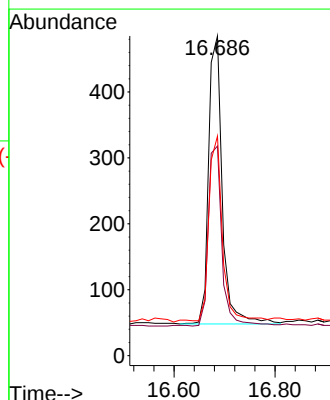
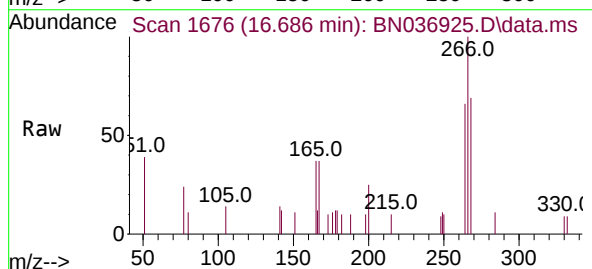
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

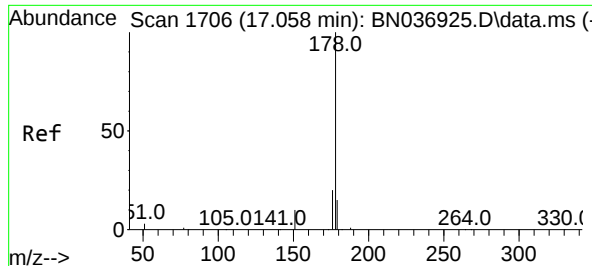
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 200     | 100   |       |       |
| 173     | 28.0  | 22.4  | 33.6  |
| 215     | 48.2  | 38.6  | 57.8  |



#24  
Pentachlorophenol  
Concen: 0.378 ng  
RT: 16.686 min Scan# 1676  
Delta R.T. 0.000 min  
Lab File: BN036925.D  
Acq: 28 Apr 2025 12:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 266     | 100   |       |       |
| 264     | 62.4  | 49.9  | 74.9  |
| 268     | 65.3  | 52.2  | 78.4  |

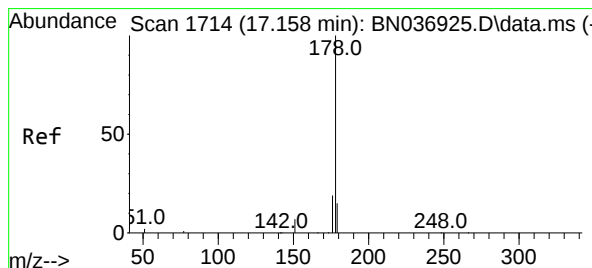
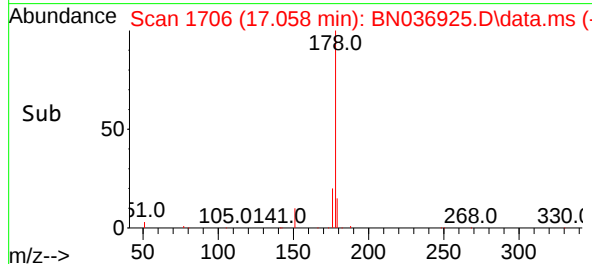
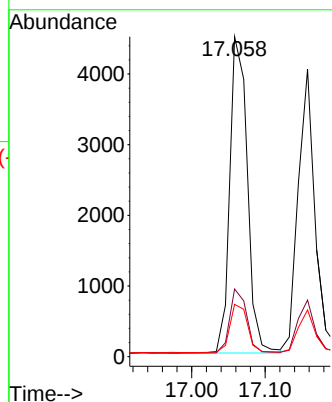
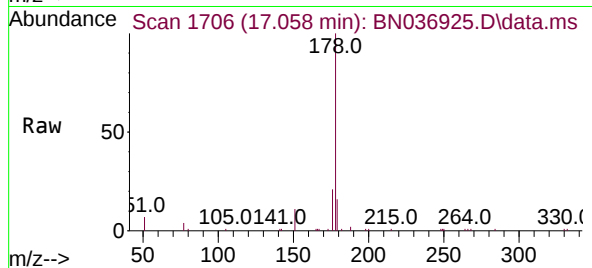




#25  
Phenanthrene  
Concen: 0.395 ng  
RT: 17.058 min Scan# 1706  
Delta R.T. 0.000 min  
Lab File: BN036925.D  
Acq: 28 Apr 2025 12:47

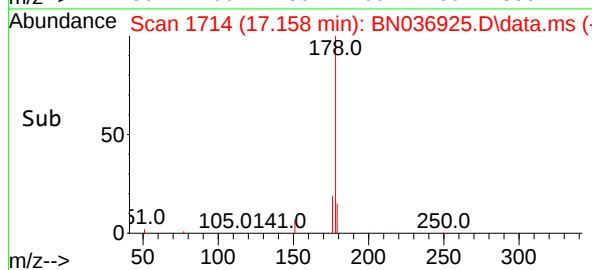
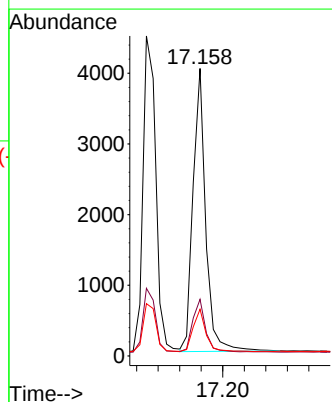
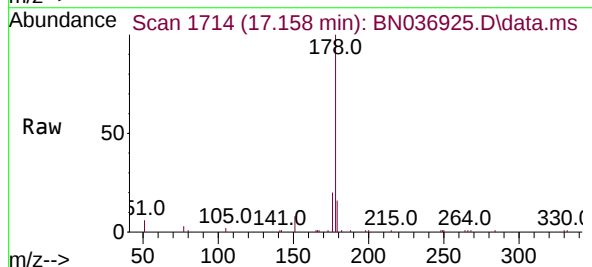
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

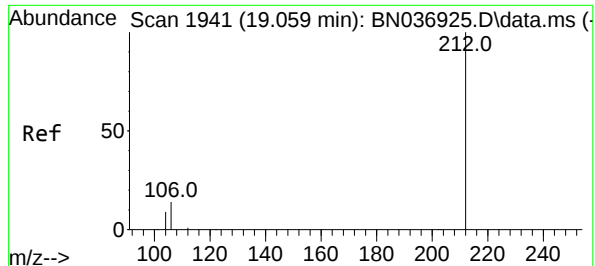
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.6  | 15.7  | 23.5  |
| 179     | 15.5  | 12.4  | 18.6  |



#26  
Anthracene  
Concen: 0.390 ng  
RT: 17.158 min Scan# 1714  
Delta R.T. 0.000 min  
Lab File: BN036925.D  
Acq: 28 Apr 2025 12:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.1  | 15.3  | 22.9  |
| 179     | 15.0  | 12.1  | 18.1  |





#27

Fluoranthene-d10

Concen: 0.387 ng

RT: 19.059 min Scan# 1941

Delta R.T. 0.000 min

Lab File: BN036925.D

Acq: 28 Apr 2025 12:47

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

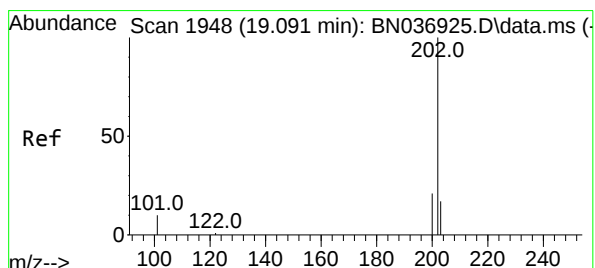
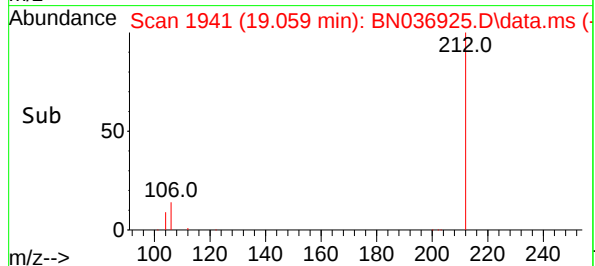
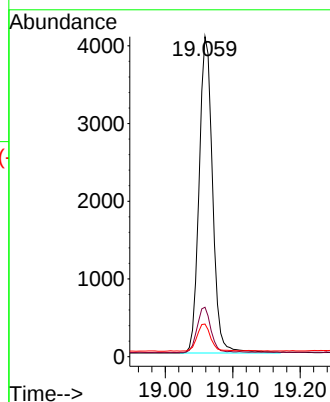
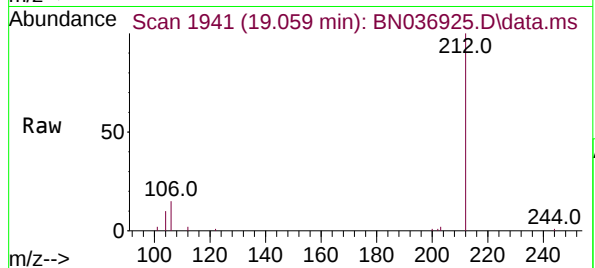
Tgt Ion:212 Resp: 5661

Ion Ratio Lower Upper

212 100

106 14.5 11.6 17.4

104 8.7 7.0 10.4



#28

Fluoranthene

Concen: 0.384 ng

RT: 19.091 min Scan# 1948

Delta R.T. 0.000 min

Lab File: BN036925.D

Acq: 28 Apr 2025 12:47

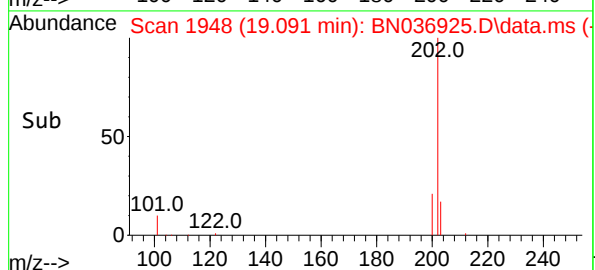
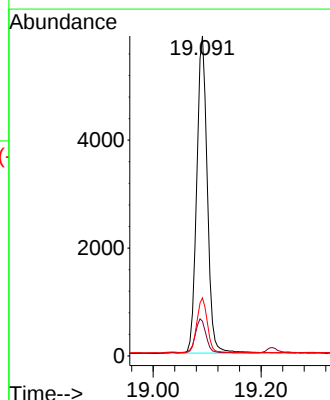
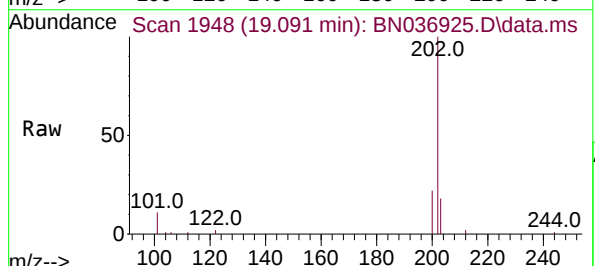
Tgt Ion:202 Resp: 7988

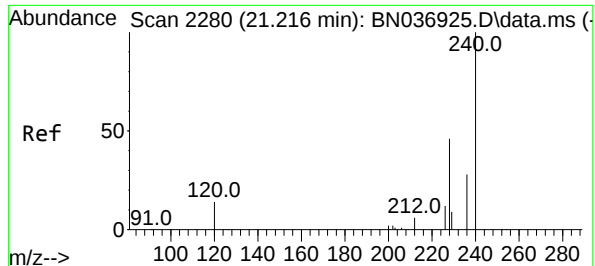
Ion Ratio Lower Upper

202 100

101 10.6 8.5 12.7

203 17.1 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.216 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036925.D

Acq: 28 Apr 2025 12:47

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

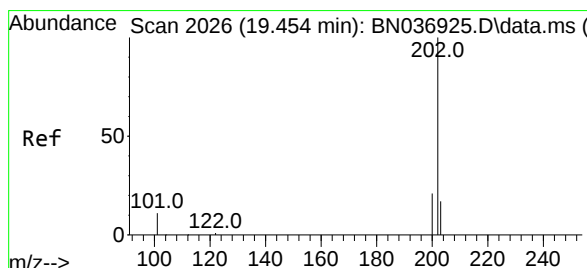
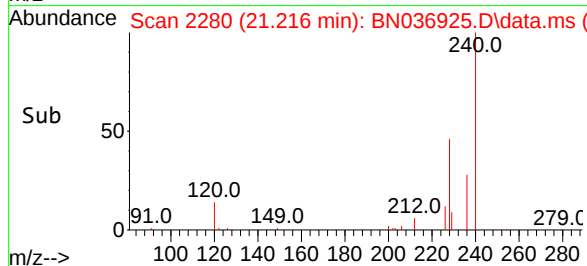
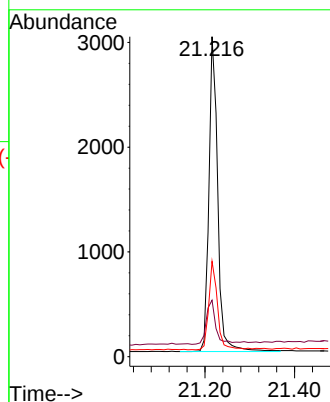
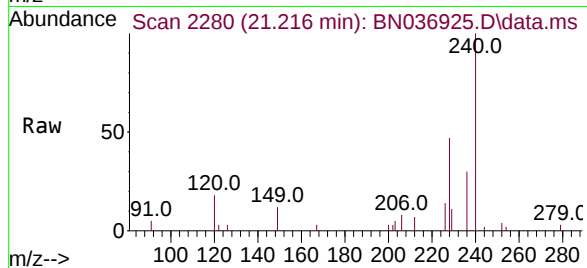
Tgt Ion:240 Resp: 4119

Ion Ratio Lower Upper

240 100

120 17.6 14.1 21.1

236 29.8 23.8 35.8



#30

Pyrene

Concen: 0.403 ng

RT: 19.454 min Scan# 2026

Delta R.T. 0.000 min

Lab File: BN036925.D

Acq: 28 Apr 2025 12:47

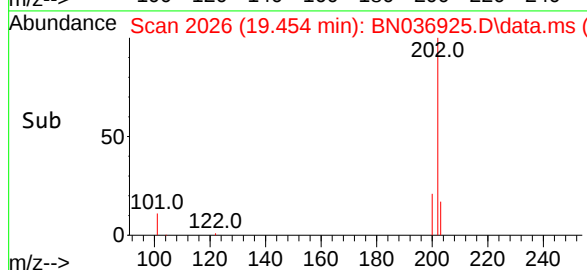
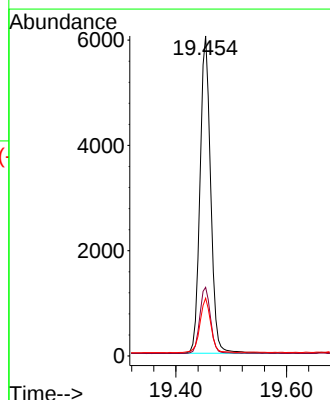
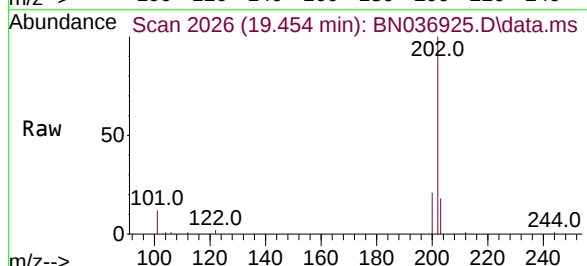
Tgt Ion:202 Resp: 8067

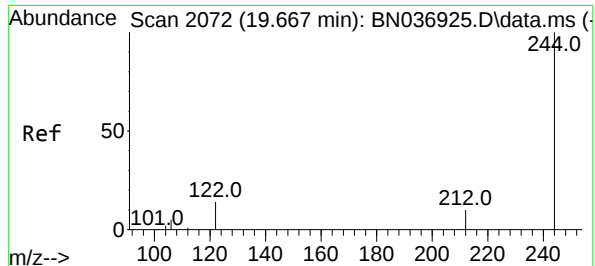
Ion Ratio Lower Upper

202 100

200 21.3 17.0 25.6

203 17.5 14.0 21.0

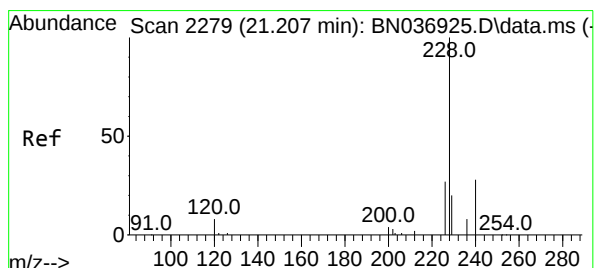
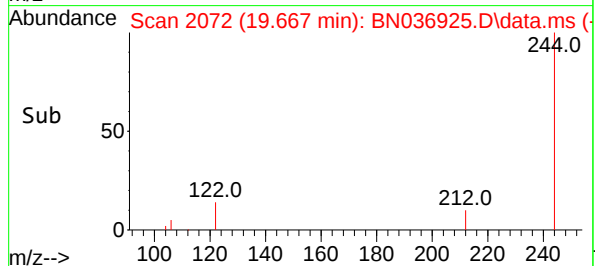
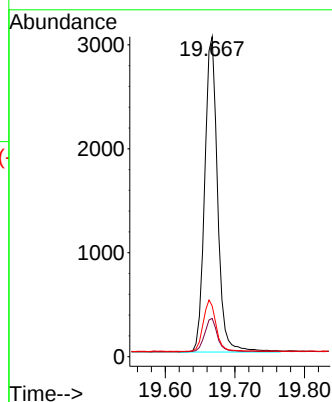
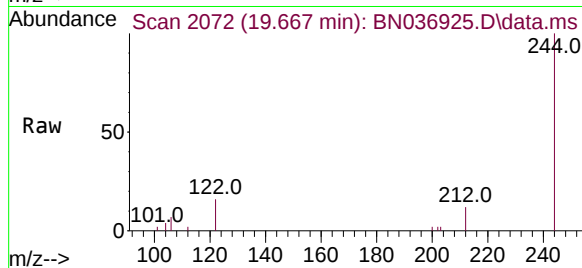




#31  
Terphenyl-d14  
Concen: 0.397 ng  
RT: 19.667 min Scan# 2072  
Delta R.T. 0.000 min  
Lab File: BN036925.D  
Acq: 28 Apr 2025 12:47

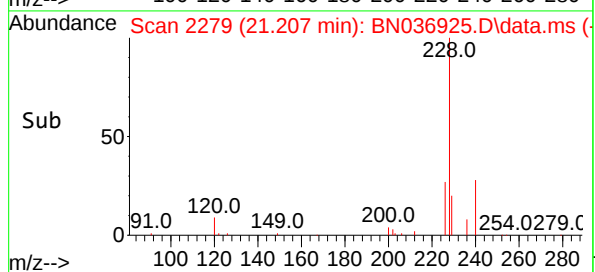
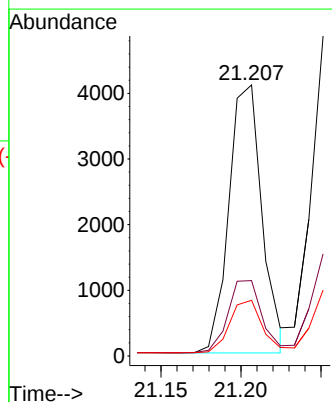
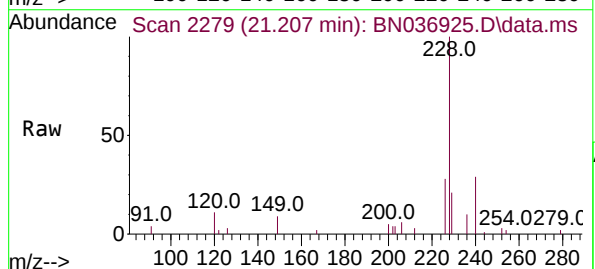
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

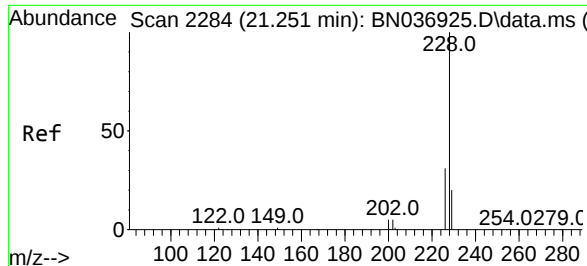
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 12.0  | 9.6   | 14.4  |
| 122     | 15.9  | 12.7  | 19.1  |



#32  
Benzo(a)anthracene  
Concen: 0.392 ng  
RT: 21.207 min Scan# 2279  
Delta R.T. 0.000 min  
Lab File: BN036925.D  
Acq: 28 Apr 2025 12:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 27.8  | 22.2  | 33.4  |
| 229     | 20.5  | 16.4  | 24.6  |





#33

Chrysene

Concen: 0.410 ng

RT: 21.251 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036925.D

Acq: 28 Apr 2025 12:47

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

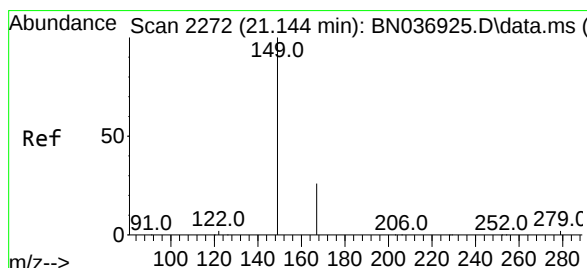
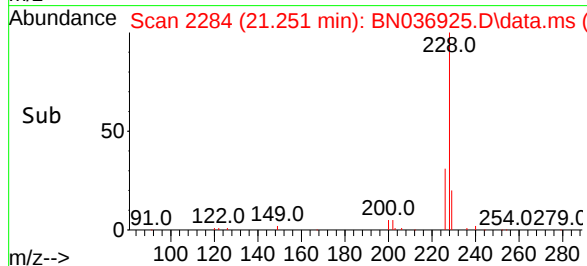
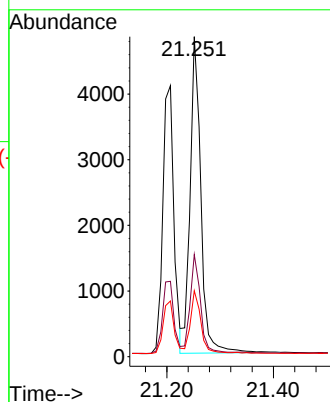
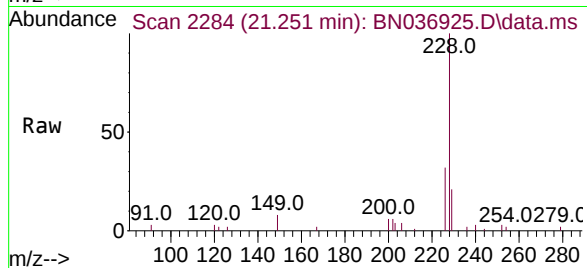
Tgt Ion:228 Resp: 6742

Ion Ratio Lower Upper

228 100

226 31.9 25.5 38.3

229 20.6 16.5 24.7



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.400 ng

RT: 21.144 min Scan# 2272

Delta R.T. 0.000 min

Lab File: BN036925.D

Acq: 28 Apr 2025 12:47

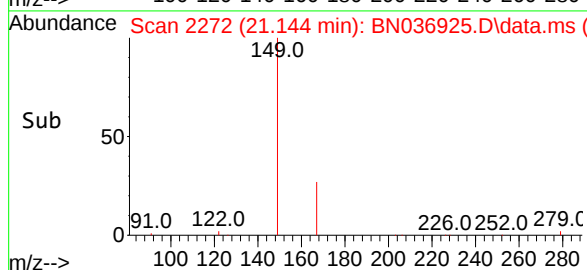
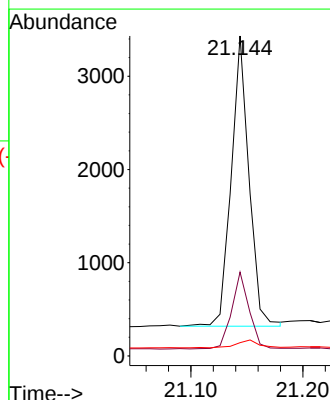
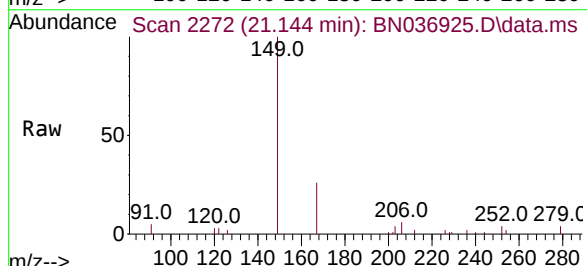
Tgt Ion:149 Resp: 3434

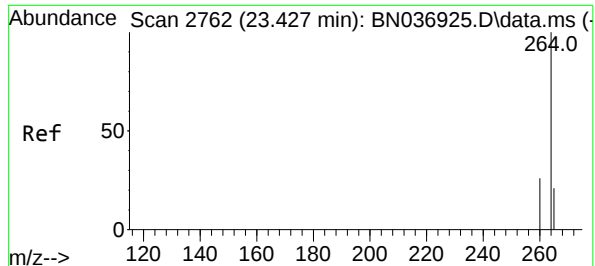
Ion Ratio Lower Upper

149 100

167 26.1 21.0 31.6

279 3.4 2.7 4.1





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.427 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036925.D

Acq: 28 Apr 2025 12:47

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

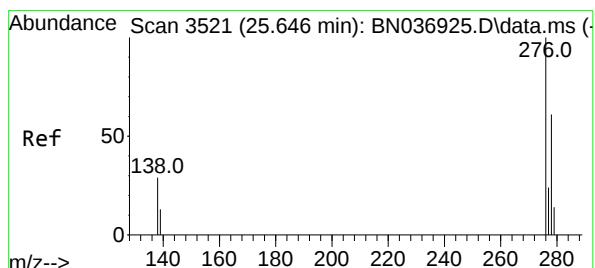
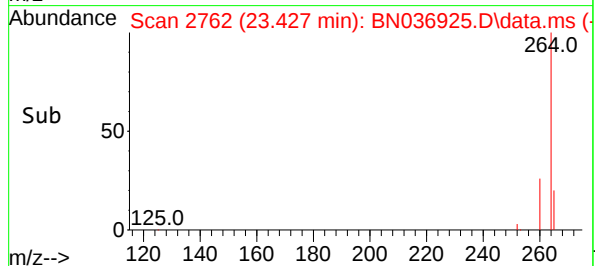
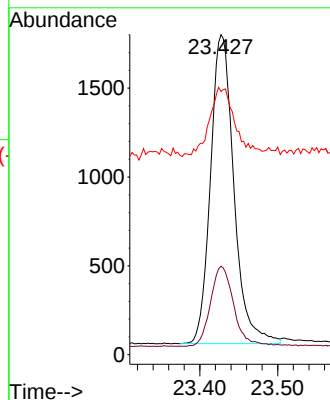
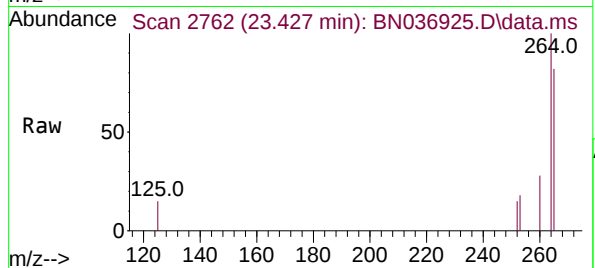
Tgt Ion:264 Resp: 3630

Ion Ratio Lower Upper

264 100

260 27.7 22.2 33.2

265 82.2 65.8 98.6



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.418 ng

RT: 25.646 min Scan# 3521

Delta R.T. 0.000 min

Lab File: BN036925.D

Acq: 28 Apr 2025 12:47

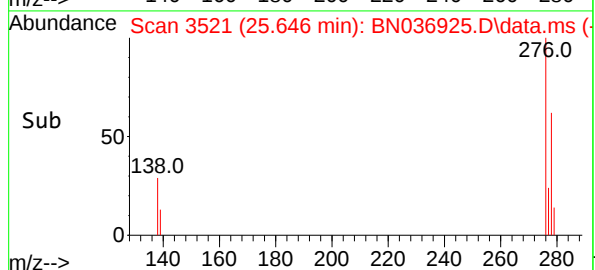
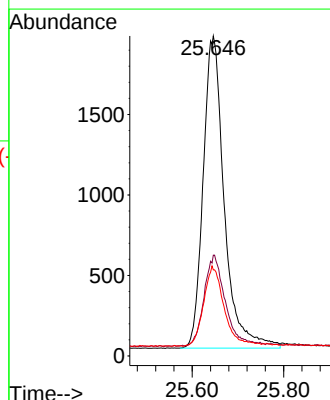
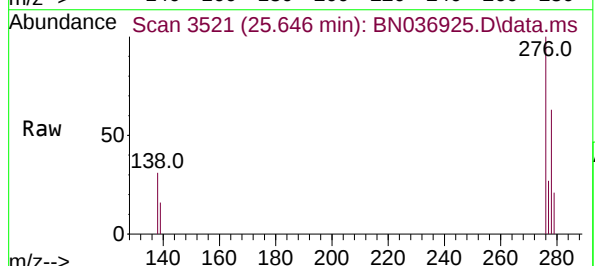
Tgt Ion:276 Resp: 6214

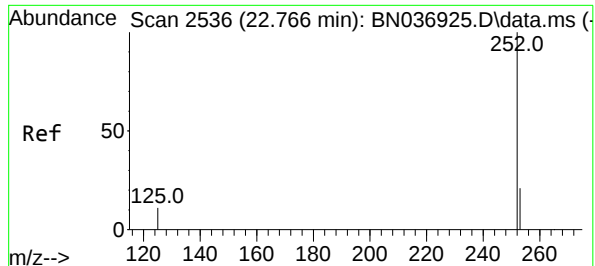
Ion Ratio Lower Upper

276 100

138 28.8 23.0 34.6

277 25.0 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 0.394 ng

RT: 22.766 min Scan# 2536

Delta R.T. 0.000 min

Lab File: BN036925.D

Acq: 28 Apr 2025 12:47

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

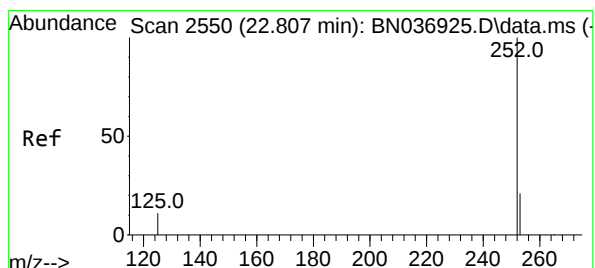
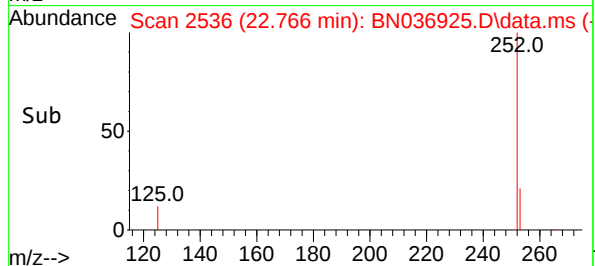
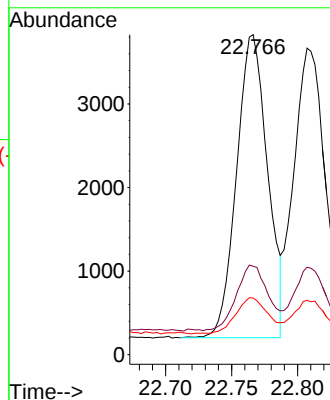
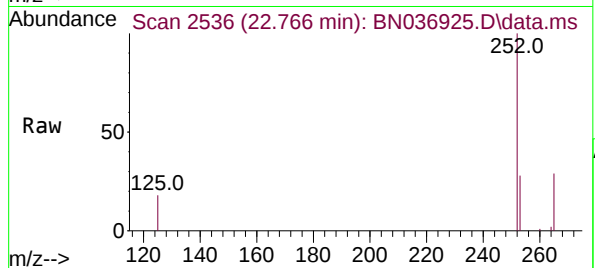
Tgt Ion:252 Resp: 5932

Ion Ratio Lower Upper

252 100

253 27.6 22.1 33.1

125 17.7 14.2 21.2



#38

Benzo(k)fluoranthene

Concen: 0.393 ng

RT: 22.807 min Scan# 2550

Delta R.T. 0.000 min

Lab File: BN036925.D

Acq: 28 Apr 2025 12:47

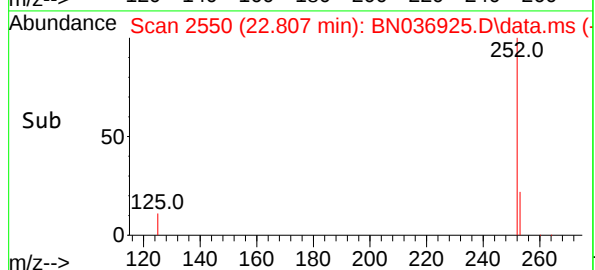
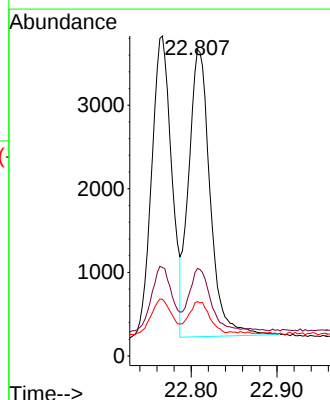
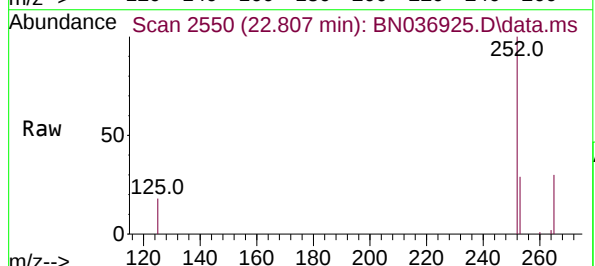
Tgt Ion:252 Resp: 5983

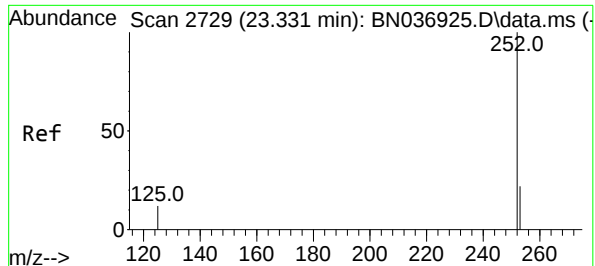
Ion Ratio Lower Upper

252 100

253 28.5 22.8 34.2

125 17.7 14.2 21.2





#39

Benzo(a)pyrene

Concen: 0.398 ng

RT: 23.331 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036925.D

Acq: 28 Apr 2025 12:47

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

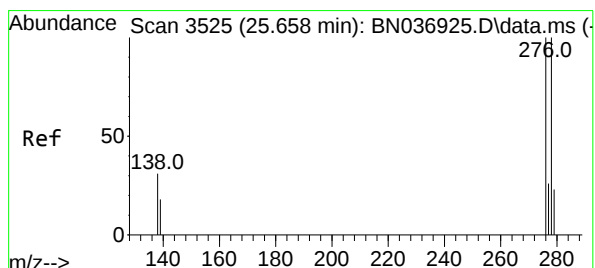
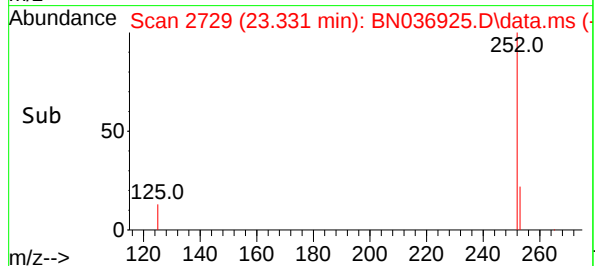
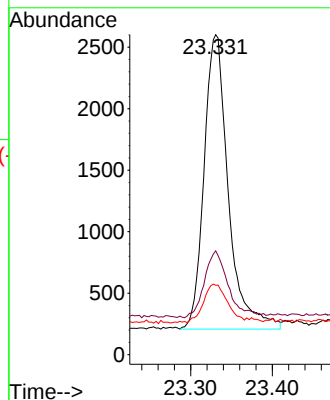
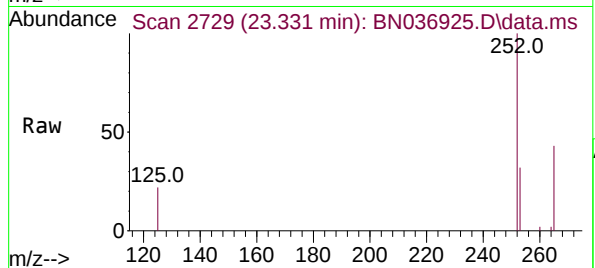
Tgt Ion:252 Resp: 4940

Ion Ratio Lower Upper

252 100

253 32.4 25.9 38.9

125 21.7 17.4 26.0



#40

Dibenzo(a,h)anthracene

Concen: 0.419 ng

RT: 25.658 min Scan# 3525

Delta R.T. 0.000 min

Lab File: BN036925.D

Acq: 28 Apr 2025 12:47

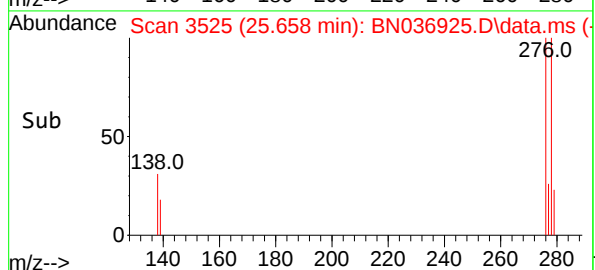
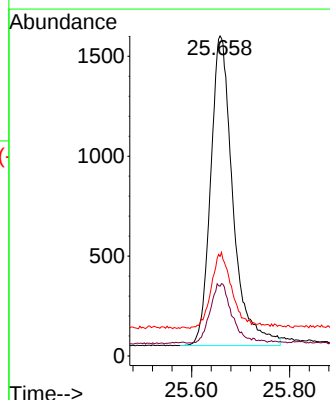
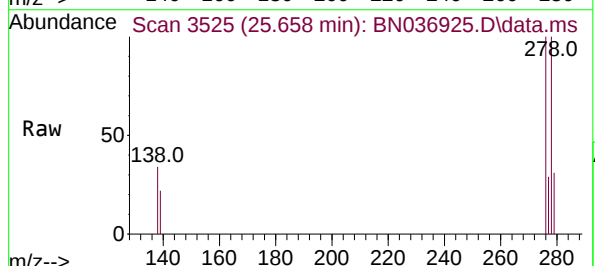
Tgt Ion:278 Resp: 4897

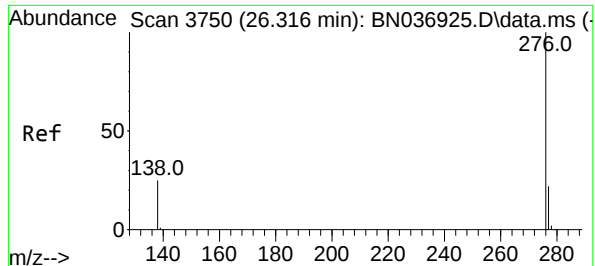
Ion Ratio Lower Upper

278 100

139 21.8 17.4 26.2

279 31.1 24.9 37.3





#41

Benzo(g,h,i)perylene

Concen: 0.420 ng

RT: 26.316 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN036925.D

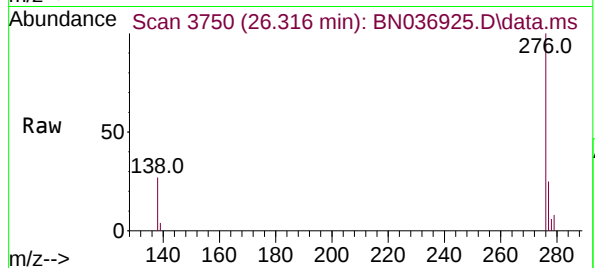
Acq: 28 Apr 2025 12:47

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4



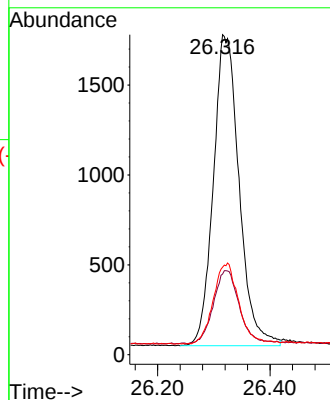
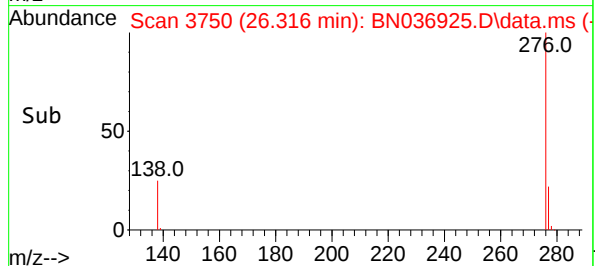
Tgt Ion:276 Resp: 5500

Ion Ratio Lower Upper

276 100

277 25.2 20.2 30.2

138 27.4 21.9 32.9



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN042825\  
 Data File : BN036926.D  
 Acq On : 28 Apr 2025 13:24  
 Operator : RC/JU  
 Sample : SSTDICC0.8  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC0.8

Quant Time: Apr 28 15:13:14 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN042825.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Apr 28 15:11:09 2025  
 Response via : Initial Calibration

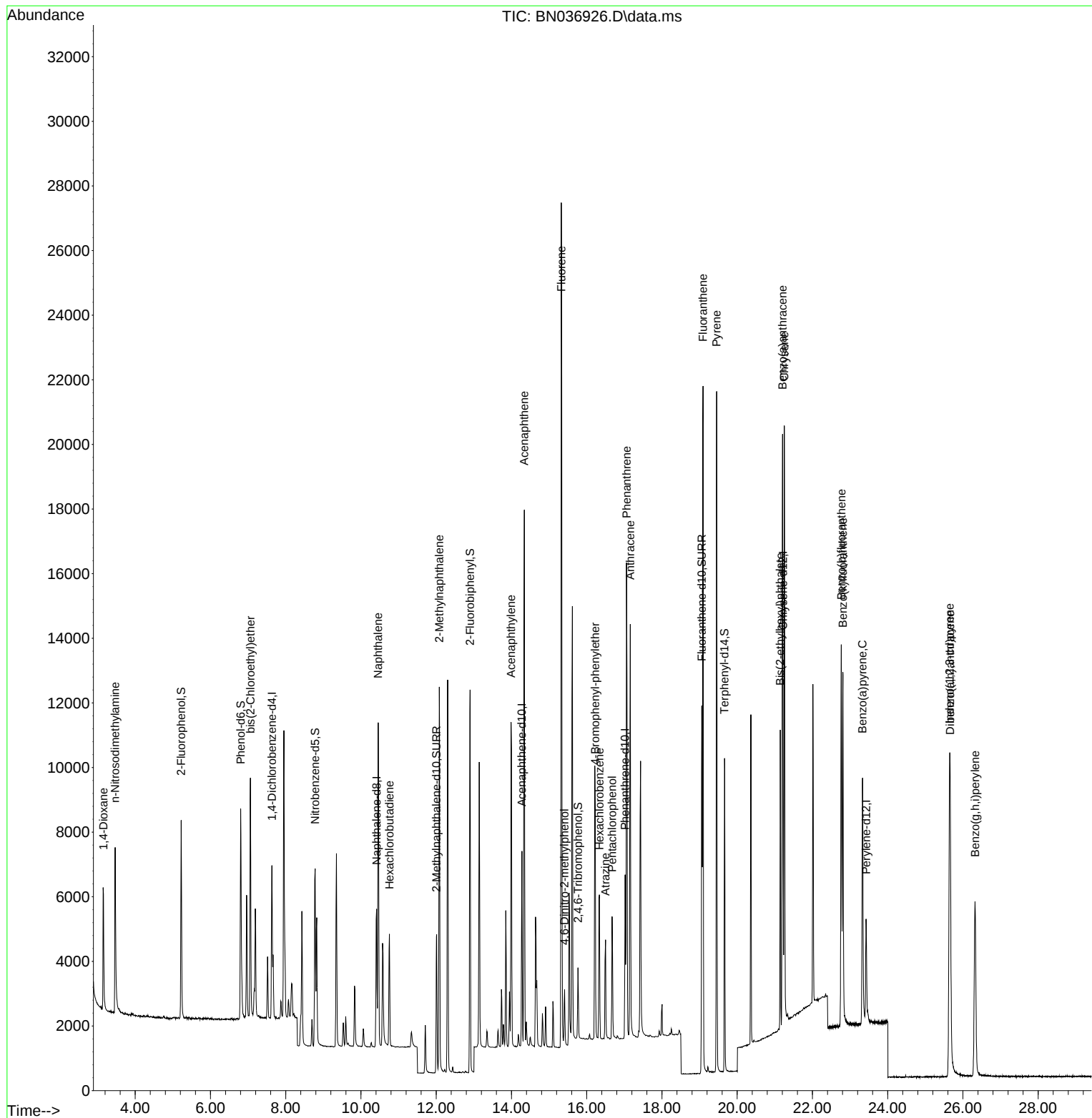
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.633  | 152  | 2230     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.415 | 136  | 5489     | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 14.277 | 164  | 3040     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 17.021 | 188  | 6101     | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 21.215 | 240  | 4993     | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.427 | 264  | 4243     | 0.400 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.220  | 112  | 4217     | 0.733 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.802  | 99   | 5133     | 0.732 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.781  | 82   | 4432     | 0.777 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 12.006 | 152  | 5965     | 0.784 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.767 | 330  | 1061     | 0.796 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.899 | 172  | 10275    | 0.699 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 19.059 | 212  | 12399    | 0.794 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.663 | 244  | 8916     | 0.750 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| Target Compounds              |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.155  | 88   | 2257     | 0.801 | ng    | 97       |
| 3) n-Nitrosodimethylamine     | 3.465  | 42   | 4269     | 0.785 | ng    | # 97     |
| 6) bis(2-Chloroethyl)ether    | 7.062  | 93   | 5078     | 0.780 | ng    | 99       |
| 9) Naphthalene                | 10.458 | 128  | 12423    | 0.778 | ng    | 99       |
| 10) Hexachlorobutadiene       | 10.757 | 225  | 2738     | 0.786 | ng    | # 98     |
| 12) 2-Methylnaphthalene       | 12.082 | 142  | 8066     | 0.789 | ng    | 100      |
| 16) Acenaphthylene            | 13.989 | 152  | 11455    | 0.778 | ng    | 100      |
| 17) Acenaphthene              | 14.341 | 154  | 7590     | 0.780 | ng    | 99       |
| 18) Fluorene                  | 15.325 | 166  | 10080    | 0.795 | ng    | 98       |
| 20) 4,6-Dinitro-2-methylph... | 15.410 | 198  | 1166     | 0.763 | ng    | # 65     |
| 21) 4-Bromophenyl-phenylether | 16.227 | 248  | 3169     | 0.780 | ng    | 94       |
| 22) Hexachlorobenzene         | 16.338 | 284  | 3420     | 0.762 | ng    | 99       |
| 23) Atrazine                  | 16.500 | 200  | 2644     | 0.825 | ng    | 94       |
| 24) Pentachlorophenol         | 16.673 | 266  | 1767     | 0.758 | ng    | 99       |
| 25) Phenanthrene              | 17.058 | 178  | 15621    | 0.778 | ng    | 100      |
| 26) Anthracene                | 17.157 | 178  | 13888    | 0.774 | ng    | 100      |
| 28) Fluoranthene              | 19.091 | 202  | 17952    | 0.808 | ng    | 99       |
| 30) Pyrene                    | 19.453 | 202  | 17990    | 0.741 | ng    | 100      |
| 32) Benzo(a)anthracene        | 21.206 | 228  | 14201    | 0.780 | ng    | 99       |
| 33) Chrysene                  | 21.251 | 228  | 15802    | 0.792 | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 21.144 | 149  | 7831     | 0.753 | ng    | # 99     |
| 36) Indeno(1,2,3-cd)pyrene    | 25.643 | 276  | 12758    | 0.734 | ng    | 100      |
| 37) Benzo(b)fluoranthene      | 22.766 | 252  | 13818    | 0.786 | ng    | 93       |
| 38) Benzo(k)fluoranthene      | 22.807 | 252  | 13927    | 0.783 | ng    | 93       |
| 39) Benzo(a)pyrene            | 23.330 | 252  | 11160    | 0.770 | ng    | # 89     |
| 40) Dibenzo(a,h)anthracene    | 25.661 | 278  | 9982     | 0.730 | ng    | 95       |
| 41) Benzo(g,h,i)perylene      | 26.321 | 276  | 11072    | 0.724 | ng    | 99       |
| -----                         |        |      |          |       |       |          |

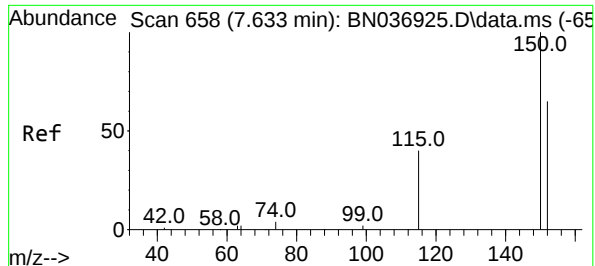
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN042825\  
Data File : BN036926.D  
Acq On : 28 Apr 2025 13:24  
Operator : RC/JU  
Sample : SSTDICC0.8  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

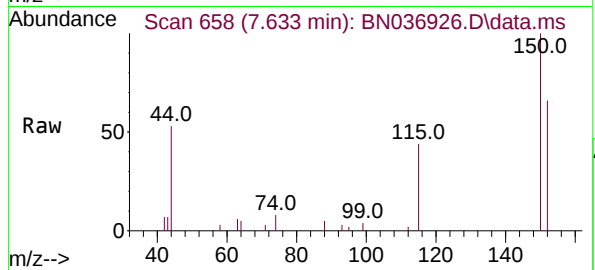
Quant Time: Apr 28 15:13:14 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN042825.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Apr 28 15:11:09 2025  
Response via : Initial Calibration



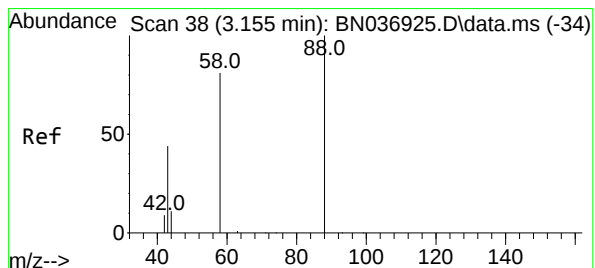
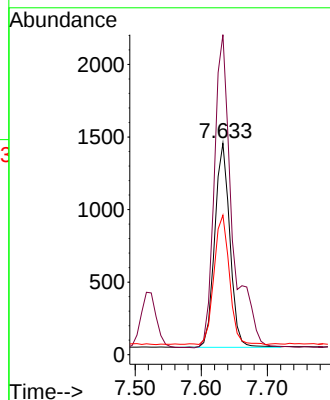
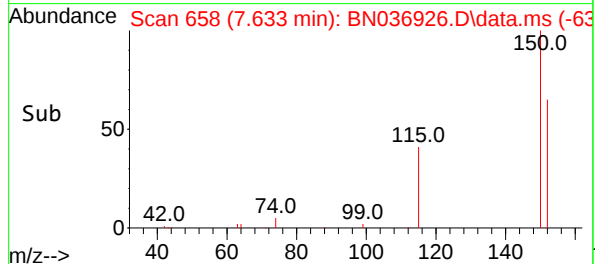


#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.633 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: BN036926.D  
Acq: 28 Apr 2025 13:24

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

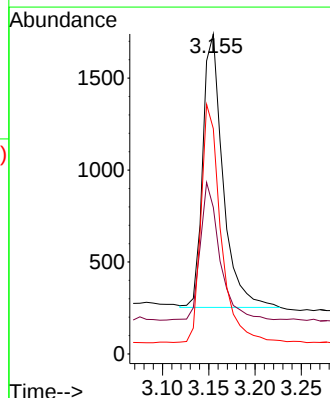
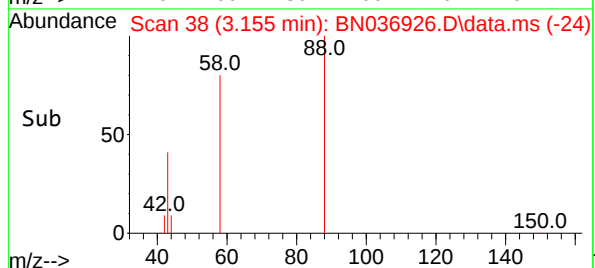
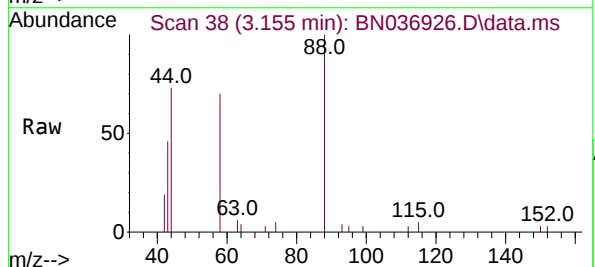


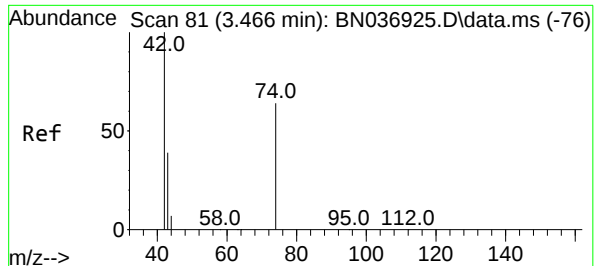
Tgt Ion:152 Resp: 2230  
Ion Ratio Lower Upper  
152 100  
150 151.3 121.1 181.7  
115 66.0 51.8 77.6



#2  
1,4-Dioxane  
Concen: 0.801 ng  
RT: 3.155 min Scan# 38  
Delta R.T. -0.000 min  
Lab File: BN036926.D  
Acq: 28 Apr 2025 13:24

Tgt Ion: 88 Resp: 2257  
Ion Ratio Lower Upper  
88 100  
43 49.0 37.9 56.9  
58 85.8 65.8 98.6

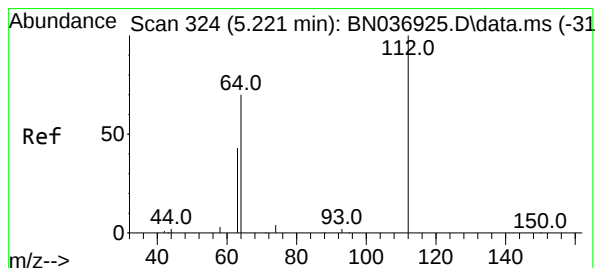
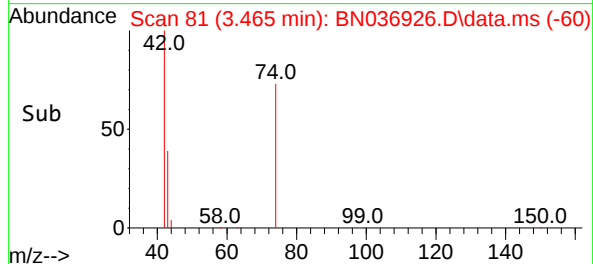
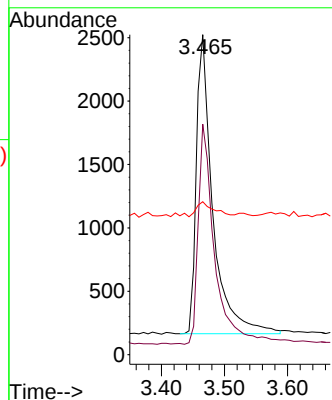
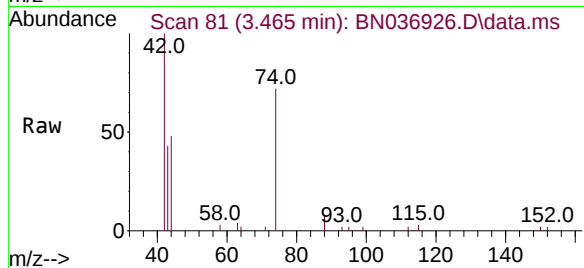




#3  
n-Nitrosodimethylamine  
Concen: 0.785 ng  
RT: 3.465 min Scan# 81  
Delta R.T. -0.000 min  
Lab File: BN036926.D  
Acq: 28 Apr 2025 13:24

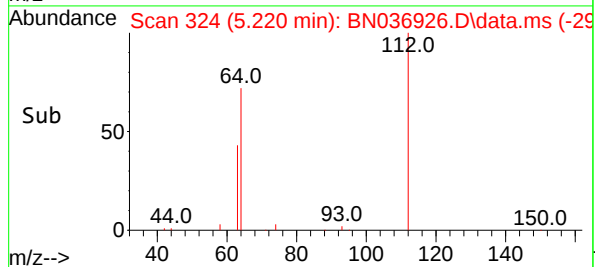
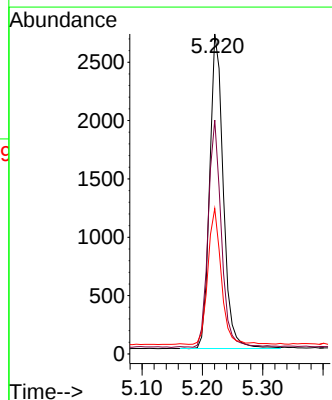
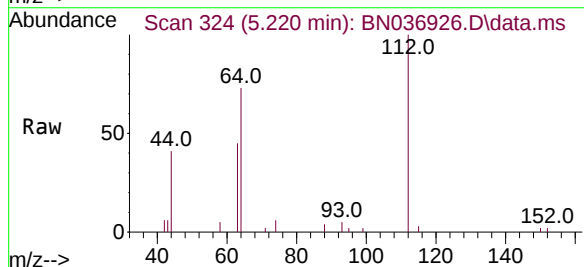
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

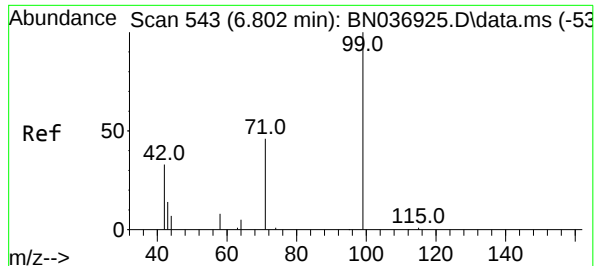
Tgt Ion: 42 Resp: 4269  
Ion Ratio Lower Upper  
42 100  
74 72.8 59.9 89.9  
44 5.2 7.5 11.3#



#4  
2-Fluorophenol  
Concen: 0.733 ng  
RT: 5.220 min Scan# 324  
Delta R.T. -0.000 min  
Lab File: BN036926.D  
Acq: 28 Apr 2025 13:24

Tgt Ion: 112 Resp: 4217  
Ion Ratio Lower Upper  
112 100  
64 69.9 55.7 83.5  
63 42.7 33.9 50.9

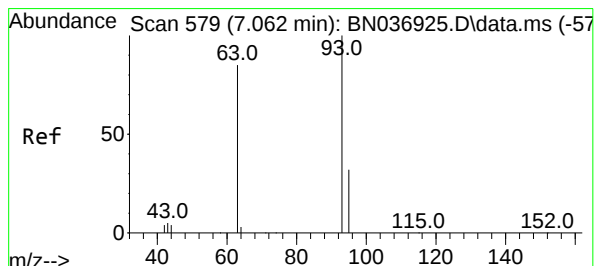
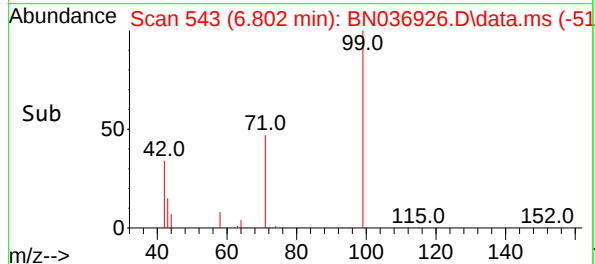
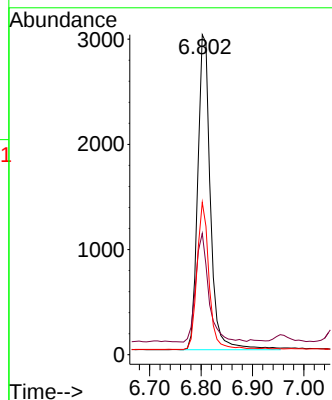
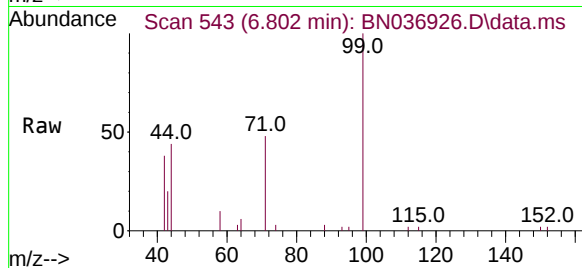




#5  
Phenol-d6  
Concen: 0.732 ng  
RT: 6.802 min Scan# 543  
Delta R.T. -0.000 min  
Lab File: BN036926.D  
Acq: 28 Apr 2025 13:24

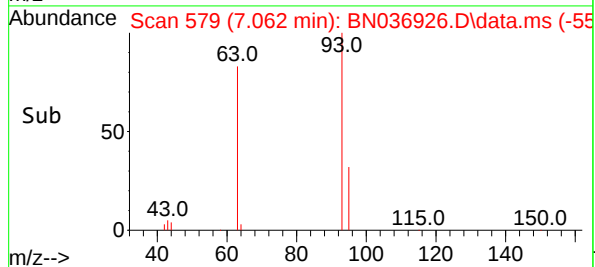
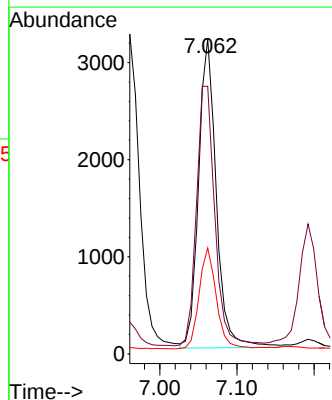
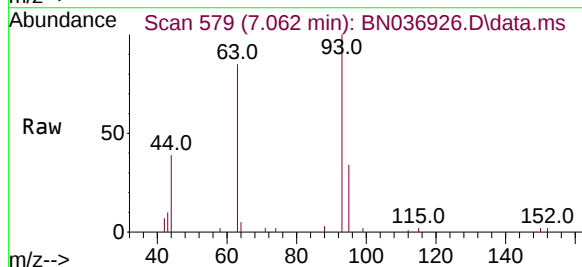
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

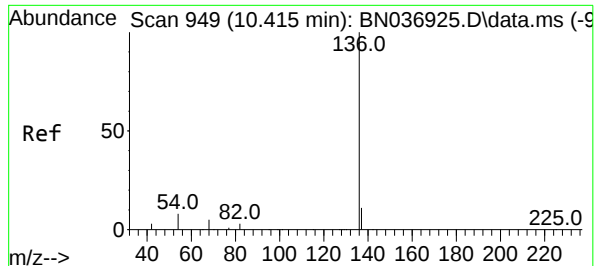
Tgt Ion: 99 Resp: 5133  
Ion Ratio Lower Upper  
99 100  
42 35.2 29.6 44.4  
71 44.7 36.0 54.0



#6  
bis(2-Chloroethyl)ether  
Concen: 0.780 ng  
RT: 7.062 min Scan# 579  
Delta R.T. -0.000 min  
Lab File: BN036926.D  
Acq: 28 Apr 2025 13:24

Tgt Ion: 93 Resp: 5078  
Ion Ratio Lower Upper  
93 100  
63 87.5 69.0 103.6  
95 31.9 25.4 38.0

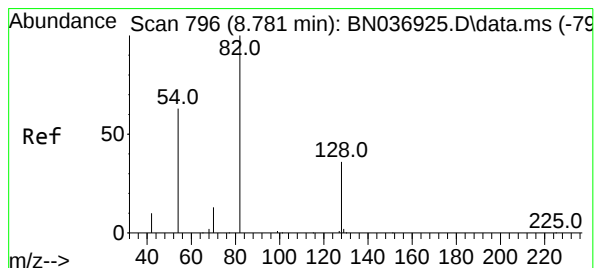
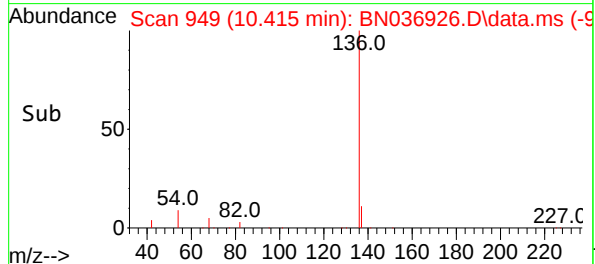
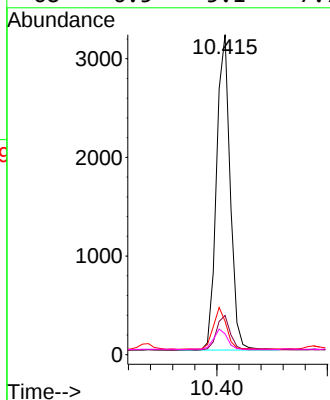
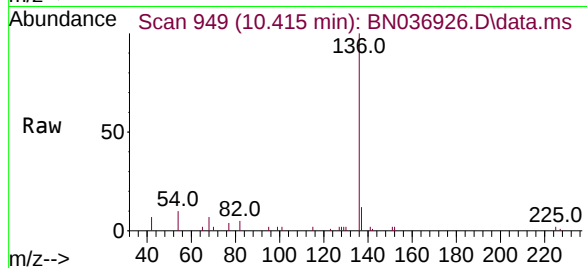




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.415 min Scan# 949  
Delta R.T. -0.000 min  
Lab File: BN036926.D  
Acq: 28 Apr 2025 13:24

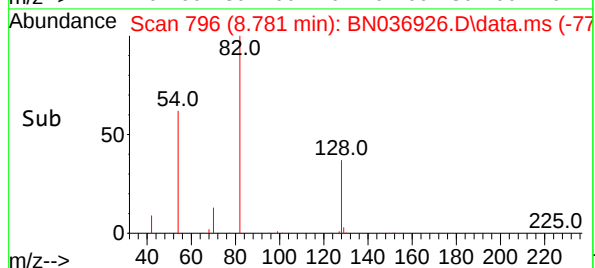
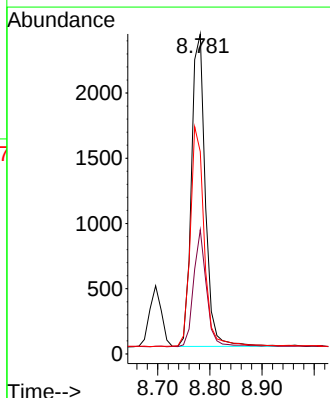
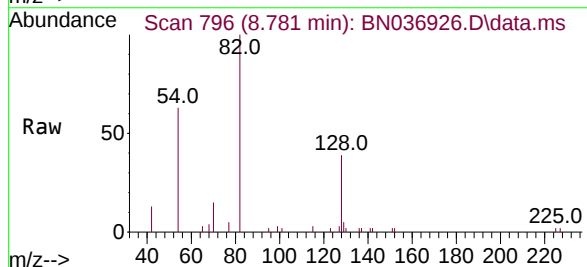
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

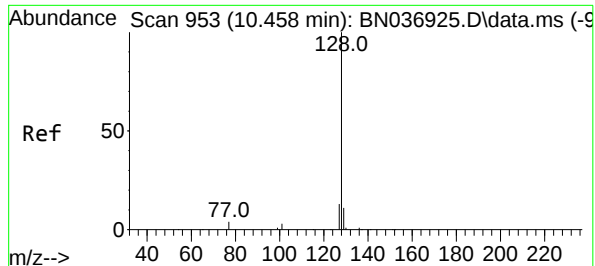
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 5489  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 12.2  | 9.7   | 14.5  |
| 54       | 10.5  | 8.0   | 12.0  |
| 68       | 6.5   | 5.1   | 7.7   |



#8  
Nitrobenzene-d5  
Concen: 0.777 ng  
RT: 8.781 min Scan# 796  
Delta R.T. -0.000 min  
Lab File: BN036926.D  
Acq: 28 Apr 2025 13:24

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 4432  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 38.8  | 30.7  | 46.1  |
| 54       | 63.2  | 52.1  | 78.1  |

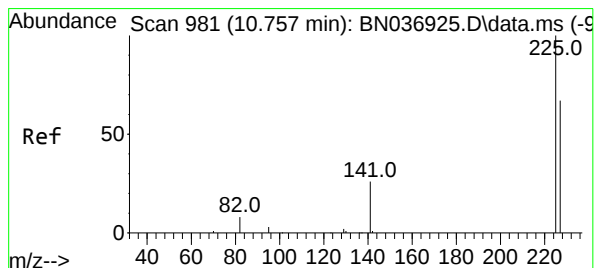
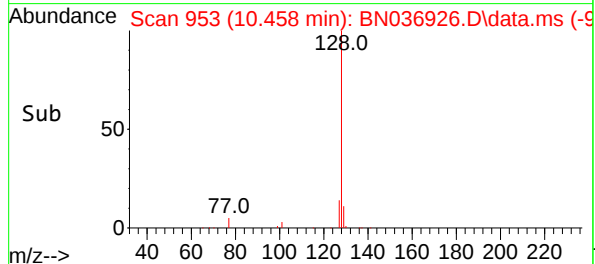
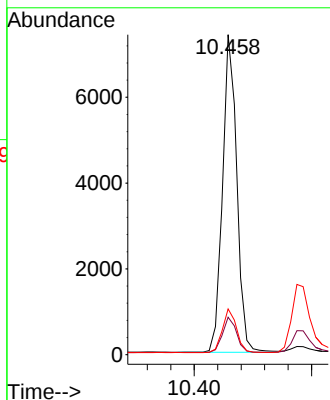
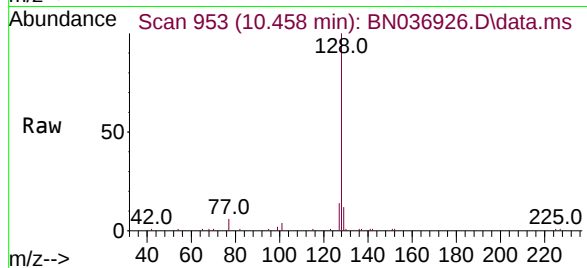




#9  
Naphthalene  
Concen: 0.778 ng  
RT: 10.458 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: BN036926.D  
Acq: 28 Apr 2025 13:24

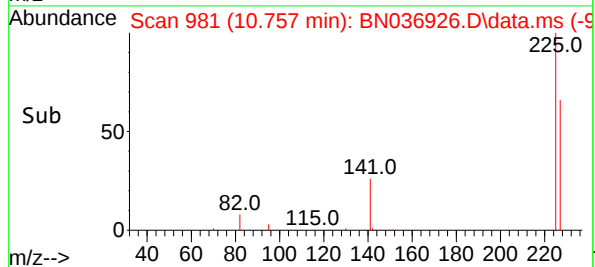
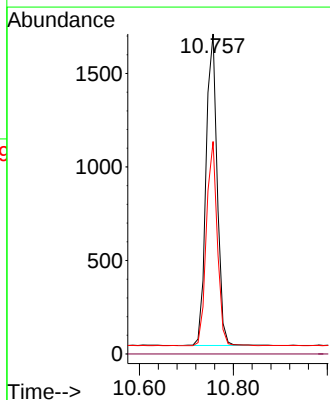
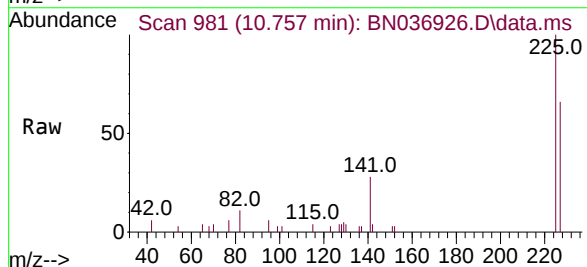
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

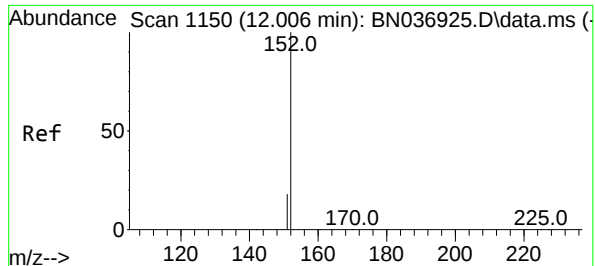
Tgt Ion:128 Resp: 12423  
Ion Ratio Lower Upper  
128 100  
129 11.7 9.8 14.6  
127 14.3 11.4 17.2



#10  
Hexachlorobutadiene  
Concen: 0.786 ng  
RT: 10.757 min Scan# 981  
Delta R.T. -0.000 min  
Lab File: BN036926.D  
Acq: 28 Apr 2025 13:24

Tgt Ion:225 Resp: 2738  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 64.0 52.2 78.4

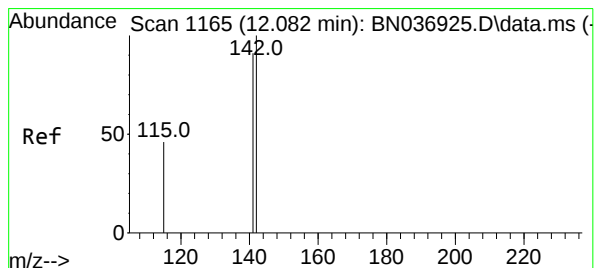
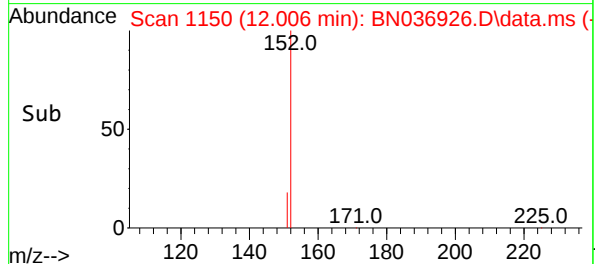
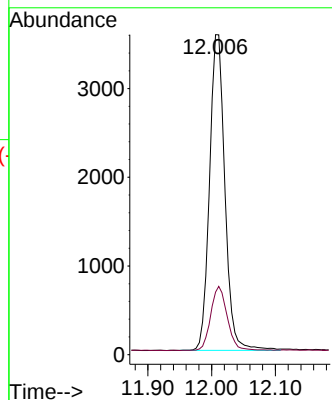
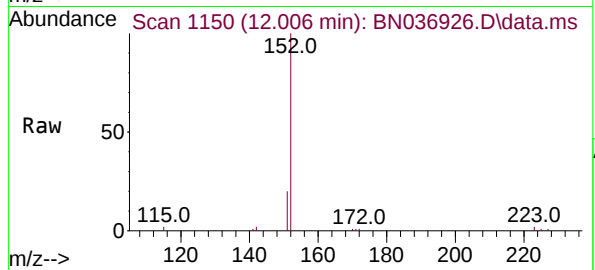




#11  
2-Methylnaphthalene-d10  
Concen: 0.784 ng  
RT: 12.006 min Scan# 1150  
Delta R.T. -0.000 min  
Lab File: BN036926.D  
Acq: 28 Apr 2025 13:24

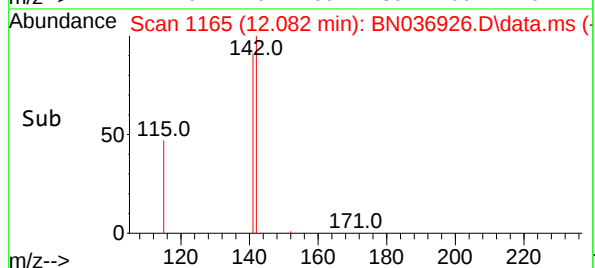
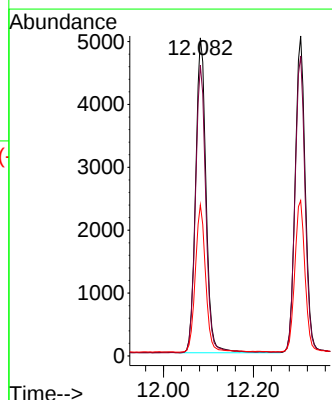
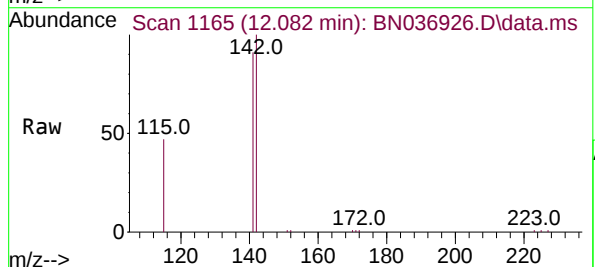
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

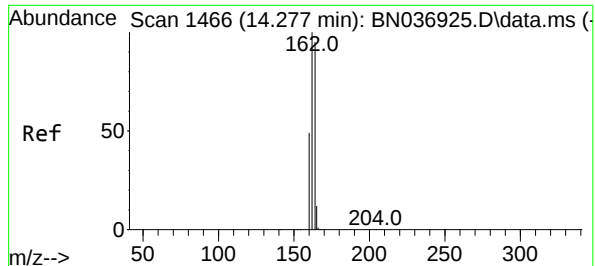
Tgt Ion:152 Resp: 5965  
Ion Ratio Lower Upper  
152 100  
151 21.8 16.9 25.3



#12  
2-Methylnaphthalene  
Concen: 0.789 ng  
RT: 12.082 min Scan# 1165  
Delta R.T. -0.000 min  
Lab File: BN036926.D  
Acq: 28 Apr 2025 13:24

Tgt Ion:142 Resp: 8066  
Ion Ratio Lower Upper  
142 100  
141 91.4 72.8 109.2  
115 47.5 38.2 57.4

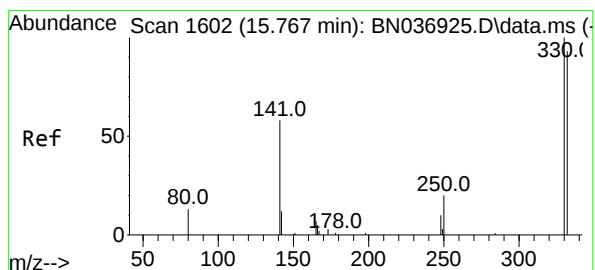
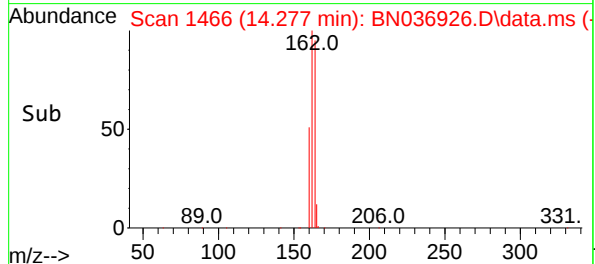
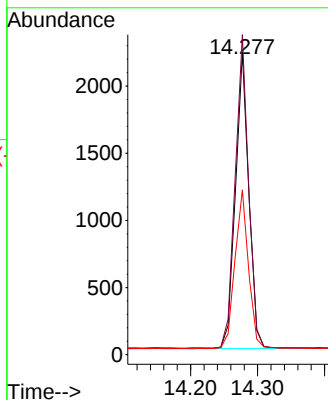
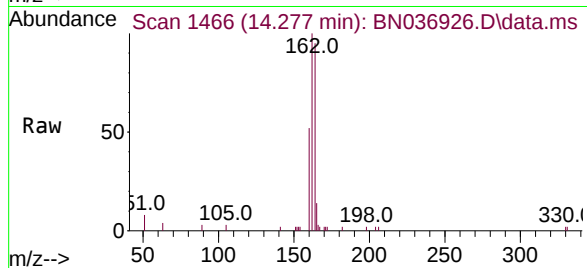




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.277 min Scan# 1466  
Delta R.T. -0.000 min  
Lab File: BN036926.D  
Acq: 28 Apr 2025 13:24

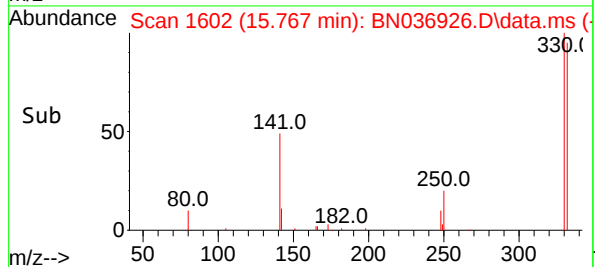
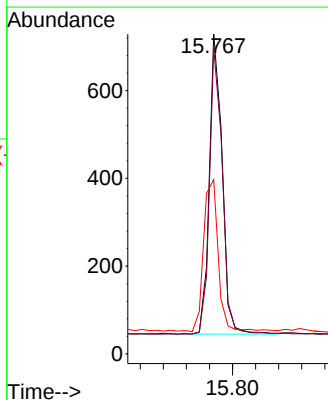
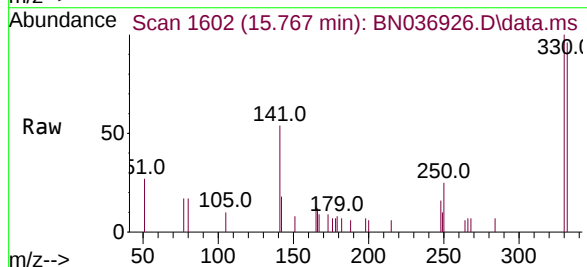
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

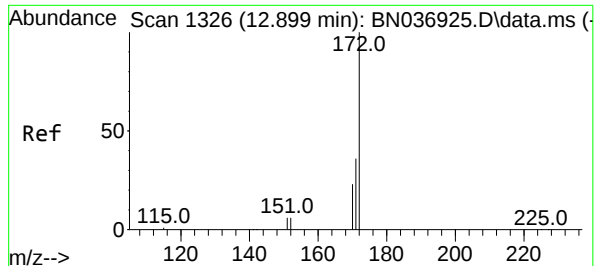
Tgt Ion:164 Resp: 3040  
Ion Ratio Lower Upper  
164 100  
162 105.7 83.8 125.8  
160 54.5 42.0 63.0



#14  
2,4,6-Tribromophenol  
Concen: 0.796 ng  
RT: 15.767 min Scan# 1602  
Delta R.T. -0.000 min  
Lab File: BN036926.D  
Acq: 28 Apr 2025 13:24

Tgt Ion:330 Resp: 1061  
Ion Ratio Lower Upper  
330 100  
332 95.2 76.3 114.5  
141 56.7 45.4 68.2

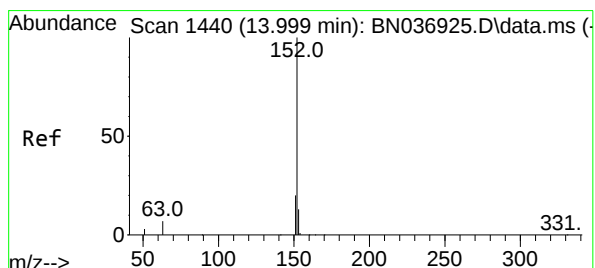
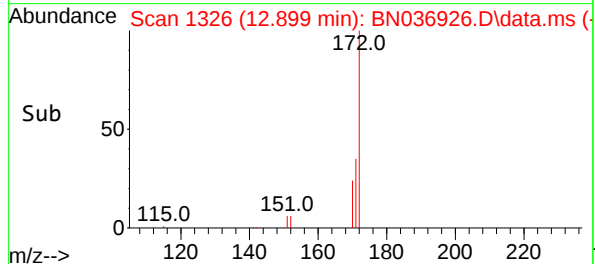
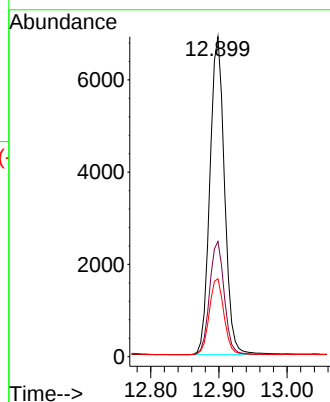
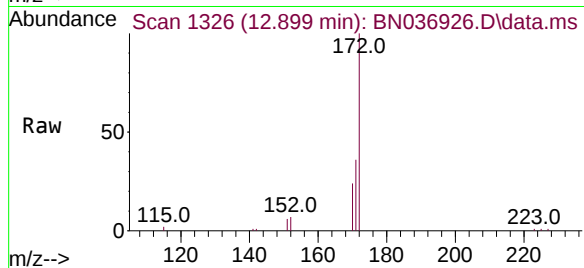




#15  
2-Fluorobiphenyl  
Concen: 0.699 ng  
RT: 12.899 min Scan# 1438  
Delta R.T. -0.000 min  
Lab File: BN036926.D  
Acq: 28 Apr 2025 13:24

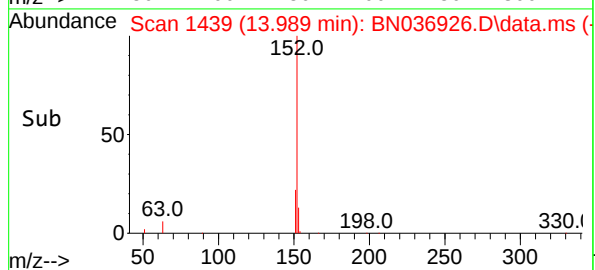
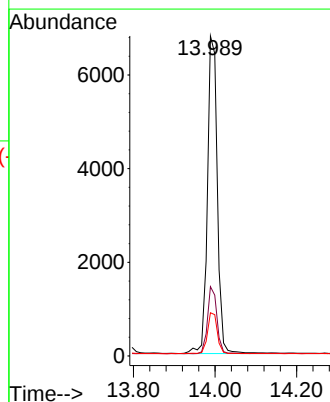
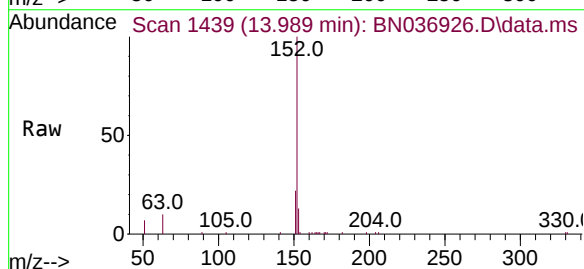
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

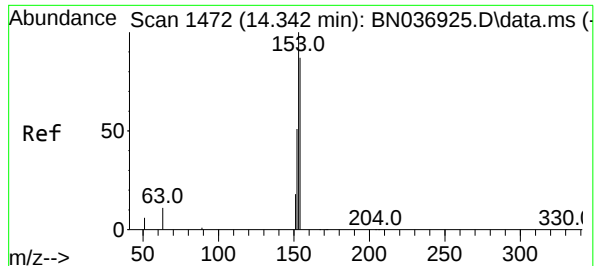
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.0  | 29.4  | 44.0  |
| 170     | 24.3  | 19.4  | 29.0  |



#16  
Acenaphthylene  
Concen: 0.778 ng  
RT: 13.989 min Scan# 1439  
Delta R.T. -0.011 min  
Lab File: BN036926.D  
Acq: 28 Apr 2025 13:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 20.0  | 16.0  | 24.0  |
| 153     | 12.9  | 10.2  | 15.2  |

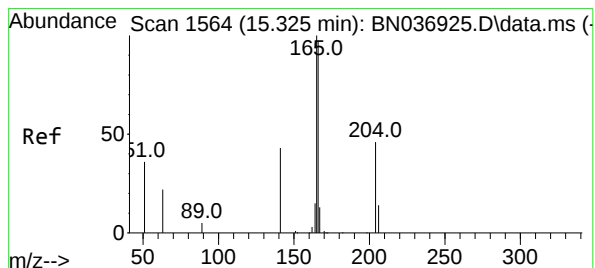
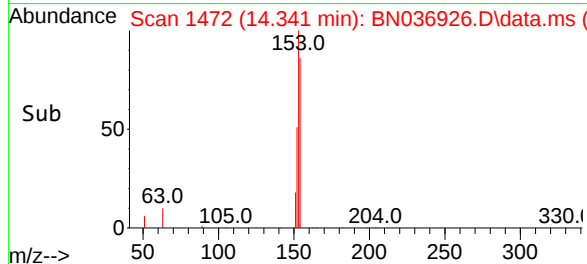
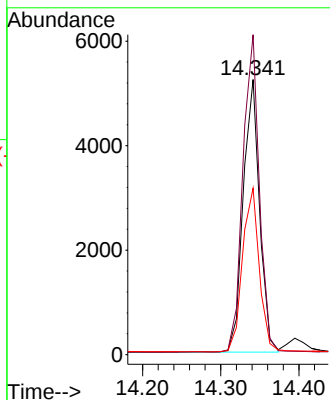
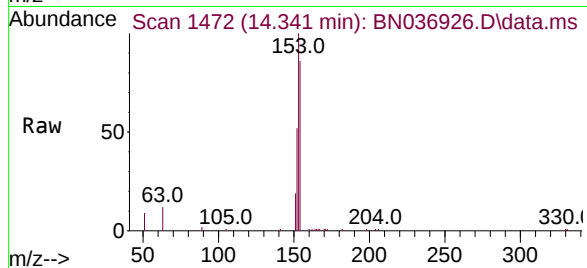




#17  
Acenaphthene  
Concen: 0.780 ng  
RT: 14.341 min Scan# 1472  
Delta R.T. -0.000 min  
Lab File: BN036926.D  
Acq: 28 Apr 2025 13:24

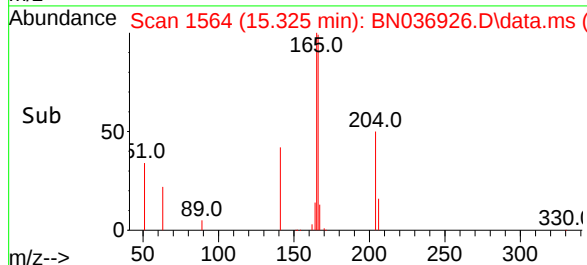
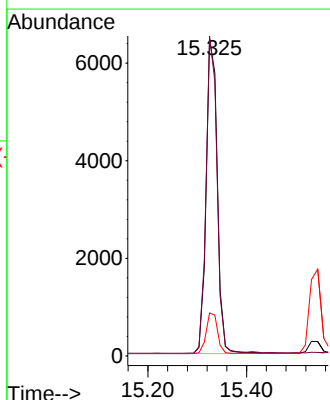
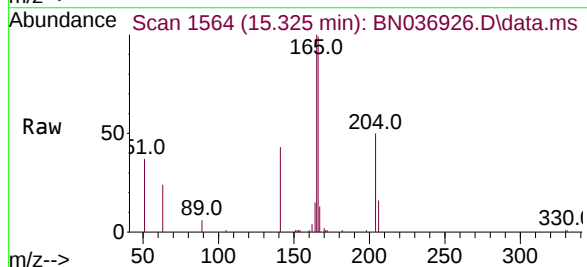
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

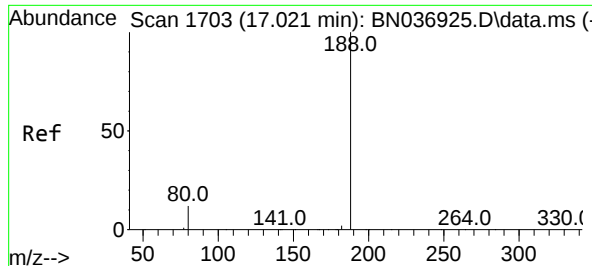
Tgt Ion:154 Resp: 7590  
Ion Ratio Lower Upper  
154 100  
153 117.5 93.4 140.2  
152 62.1 49.5 74.3



#18  
Fluorene  
Concen: 0.795 ng  
RT: 15.325 min Scan# 1564  
Delta R.T. -0.000 min  
Lab File: BN036926.D  
Acq: 28 Apr 2025 13:24

Tgt Ion:166 Resp: 10080  
Ion Ratio Lower Upper  
166 100  
165 99.0 80.8 121.2  
167 13.4 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.021 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN036926.D

Acq: 28 Apr 2025 13:24

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8

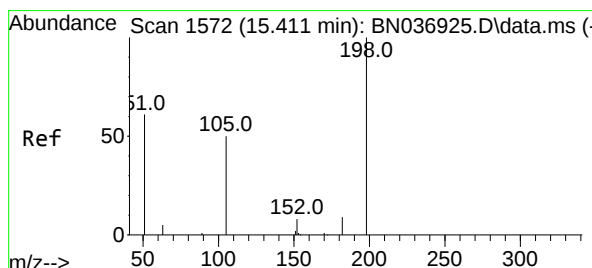
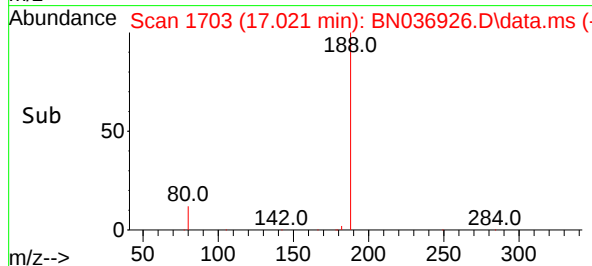
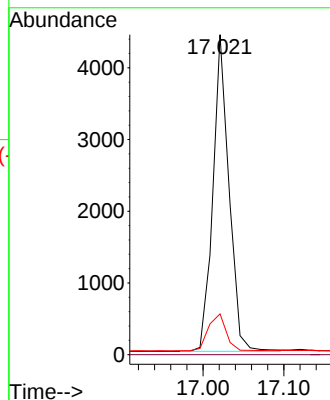
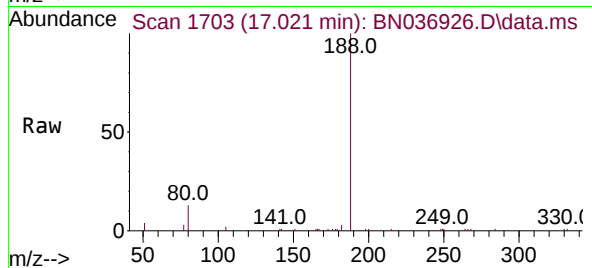
Tgt Ion:188 Resp: 6101

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 12.8 10.7 16.1



#20

4,6-Dinitro-2-methylphenol

Concen: 0.763 ng

RT: 15.410 min Scan# 1572

Delta R.T. -0.001 min

Lab File: BN036926.D

Acq: 28 Apr 2025 13:24

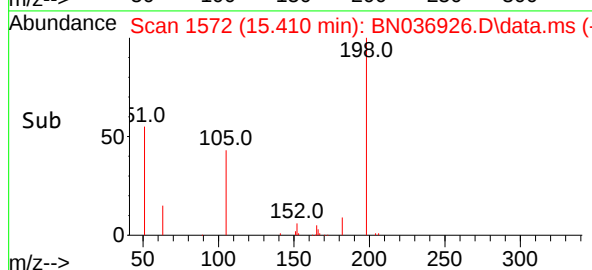
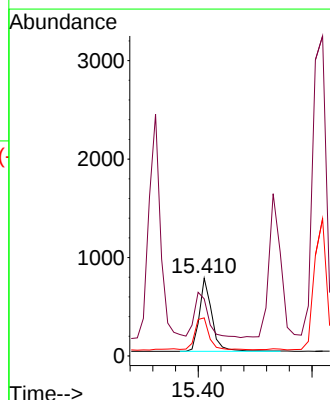
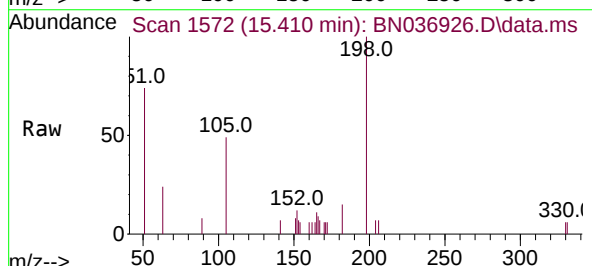
Tgt Ion:198 Resp: 1166

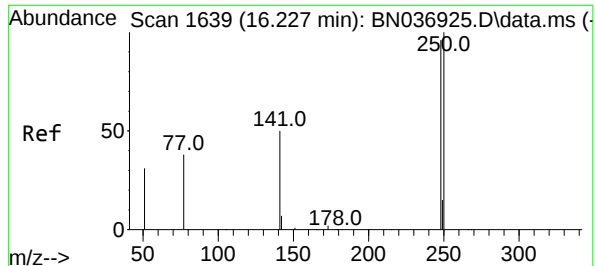
Ion Ratio Lower Upper

198 100

51 73.5 97.9 146.9#

105 48.9 50.0 75.0#

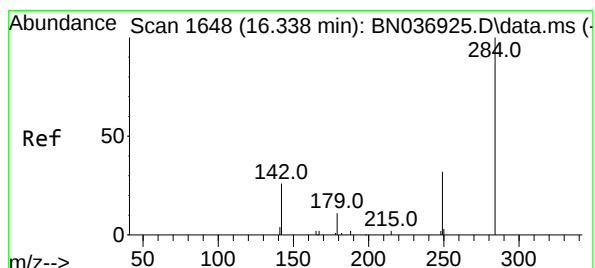
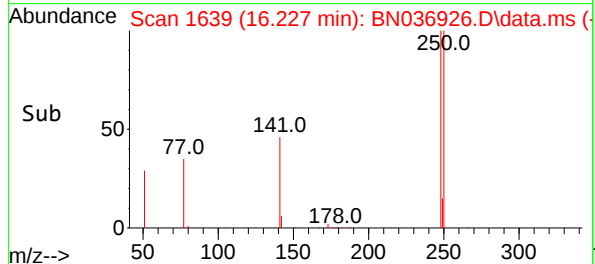
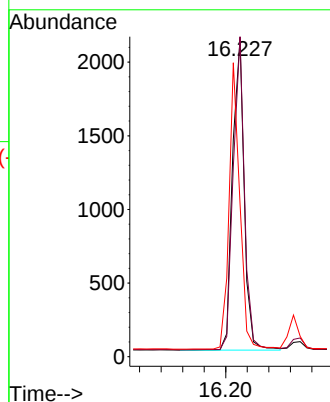
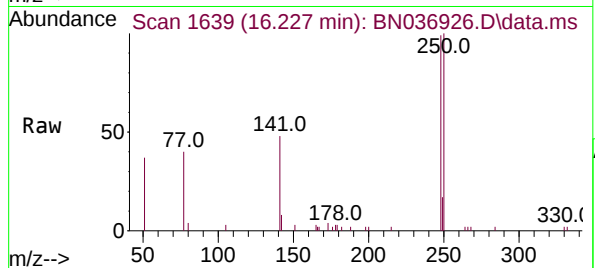




#21  
4-Bromophenyl-phenylether  
Concen: 0.780 ng  
RT: 16.227 min Scan# 1639  
Delta R.T. -0.000 min  
Lab File: BN036926.D  
Acq: 28 Apr 2025 13:24

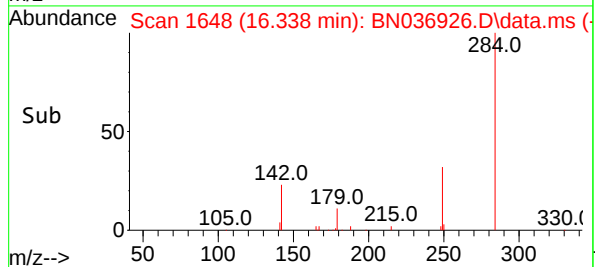
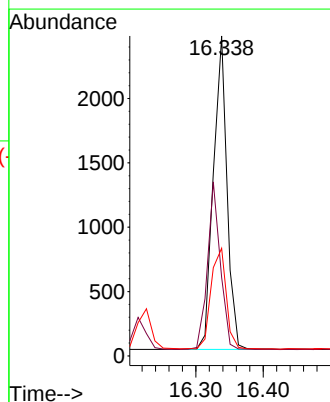
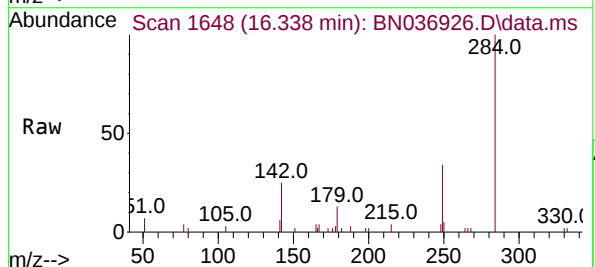
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

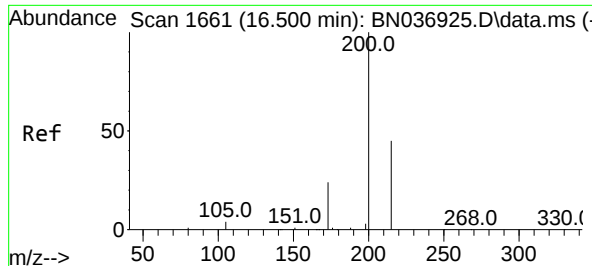
| Tgt Ion   | 248  | 250   | 141  |
|-----------|------|-------|------|
| Resp:     | 3169 |       |      |
| Ion Ratio | 100  | 100.6 | 48.1 |
| Lower     |      | 83.7  | 43.8 |
| Upper     |      | 125.5 | 65.8 |



#22  
Hexachlorobenzene  
Concen: 0.762 ng  
RT: 16.338 min Scan# 1648  
Delta R.T. -0.000 min  
Lab File: BN036926.D  
Acq: 28 Apr 2025 13:24

| Tgt Ion   | 284  | 142  | 249  |
|-----------|------|------|------|
| Resp:     | 3420 |      |      |
| Ion Ratio | 100  | 50.9 | 36.1 |
| Lower     |      | 40.0 | 28.2 |
| Upper     |      | 60.0 | 42.2 |

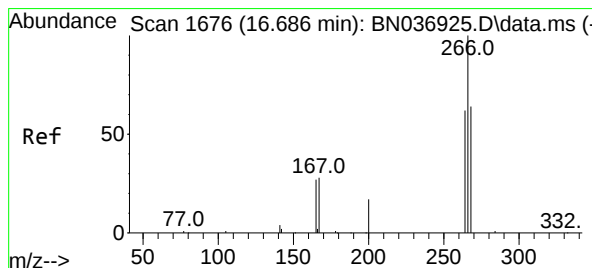
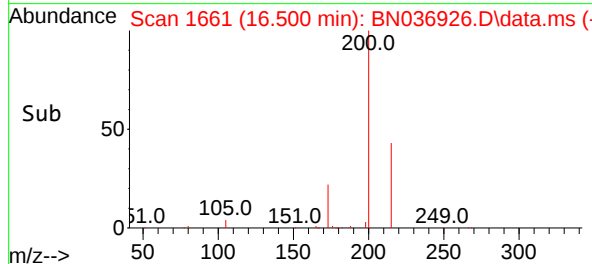
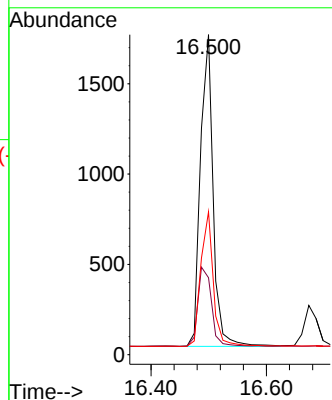
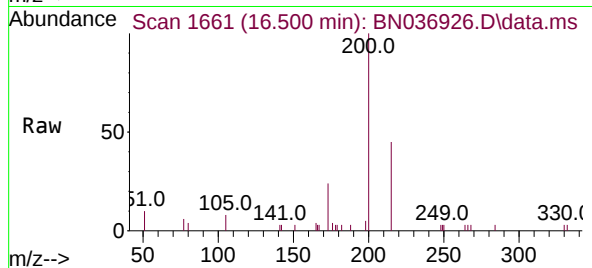




#23  
Atrazine  
Concen: 0.825 ng  
RT: 16.500 min Scan# 1661  
Delta R.T. -0.000 min  
Lab File: BN036926.D  
Acq: 28 Apr 2025 13:24

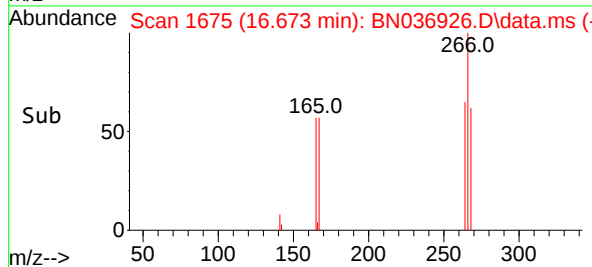
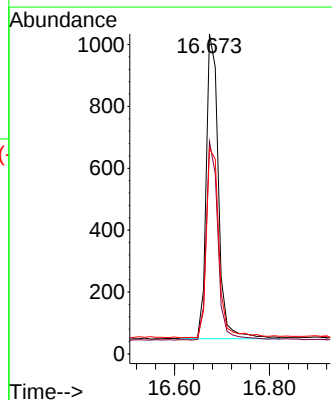
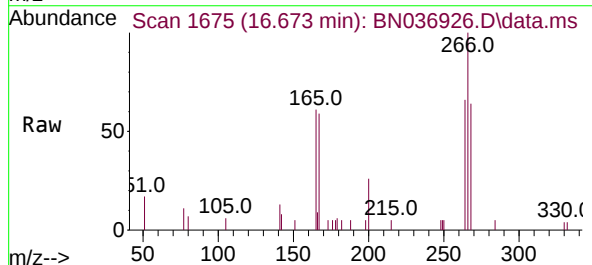
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

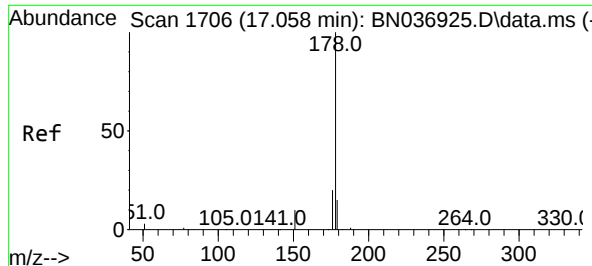
| Tgt Ion   | 200   | Resp: | 2644 |
|-----------|-------|-------|------|
| Ion Ratio | Lower | Upper |      |
| 200       | 100   |       |      |
| 173       | 24.0  | 22.4  | 33.6 |
| 215       | 44.6  | 38.6  | 57.8 |



#24  
Pentachlorophenol  
Concen: 0.758 ng  
RT: 16.673 min Scan# 1675  
Delta R.T. -0.013 min  
Lab File: BN036926.D  
Acq: 28 Apr 2025 13:24

| Tgt Ion   | 266   | Resp: | 1767 |
|-----------|-------|-------|------|
| Ion Ratio | Lower | Upper |      |
| 266       | 100   |       |      |
| 264       | 62.5  | 49.9  | 74.9 |
| 268       | 64.1  | 52.2  | 78.4 |

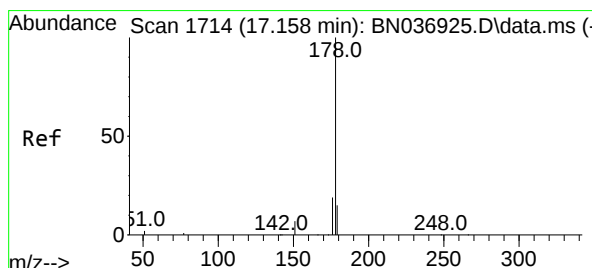
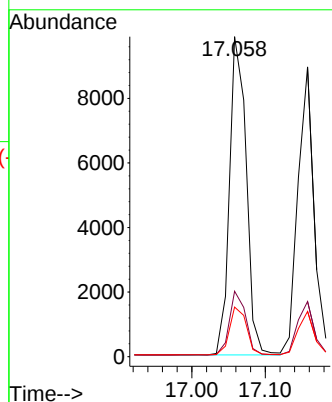
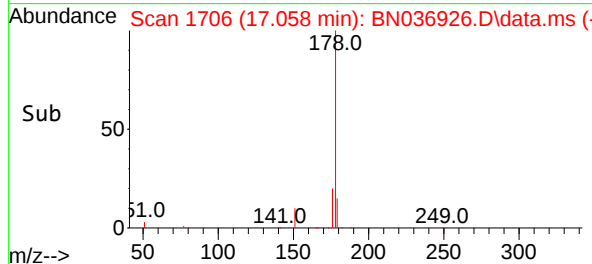
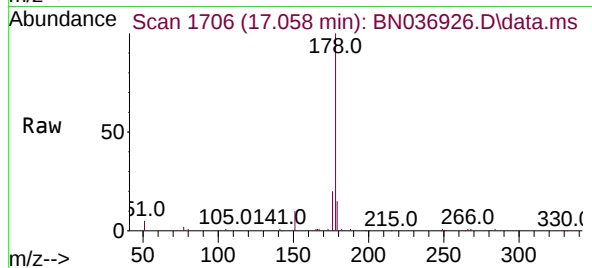




#25  
Phenanthrene  
Concen: 0.778 ng  
RT: 17.058 min Scan# 1706  
Delta R.T. -0.000 min  
Lab File: BN036926.D  
Acq: 28 Apr 2025 13:24

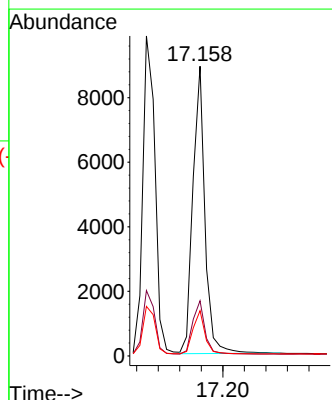
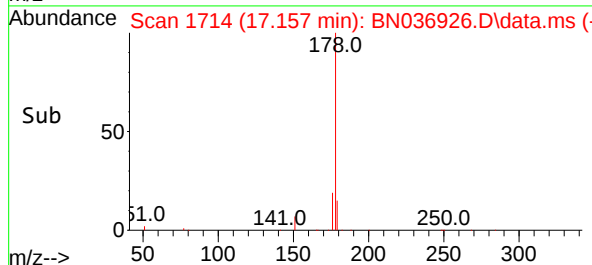
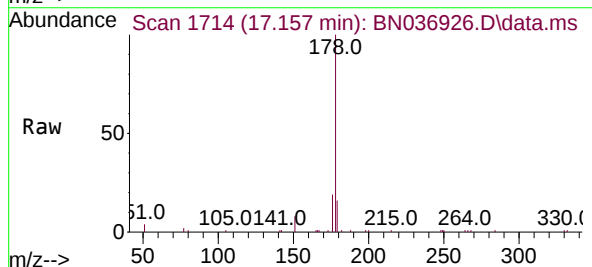
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

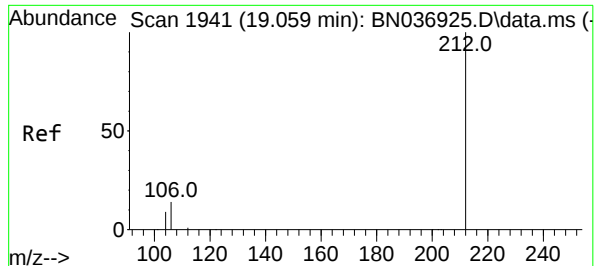
Tgt Ion:178 Resp: 15621  
Ion Ratio Lower Upper  
178 100  
176 19.6 15.7 23.5  
179 15.2 12.4 18.6



#26  
Anthracene  
Concen: 0.774 ng  
RT: 17.157 min Scan# 1714  
Delta R.T. -0.000 min  
Lab File: BN036926.D  
Acq: 28 Apr 2025 13:24

Tgt Ion:178 Resp: 13888  
Ion Ratio Lower Upper  
178 100  
176 19.0 15.3 22.9  
179 15.1 12.1 18.1





#27

Fluoranthene-d10

Concen: 0.794 ng

RT: 19.059 min Scan# 1941

Delta R.T. -0.000 min

Lab File: BN036926.D

Acq: 28 Apr 2025 13:24

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8

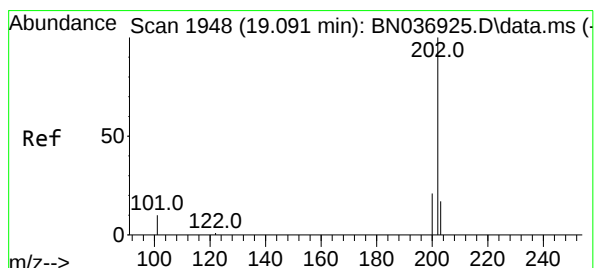
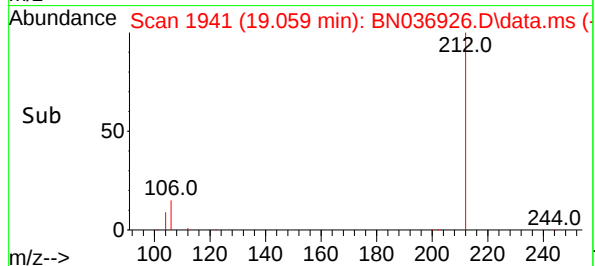
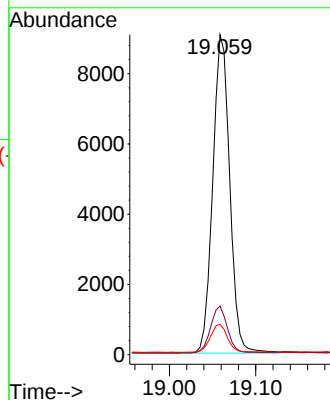
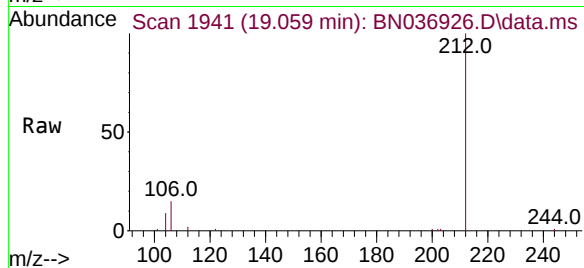
Tgt Ion:212 Resp: 12399

Ion Ratio Lower Upper

212 100

106 14.4 11.6 17.4

104 9.0 7.0 10.4



#28

Fluoranthene

Concen: 0.808 ng

RT: 19.091 min Scan# 1948

Delta R.T. -0.000 min

Lab File: BN036926.D

Acq: 28 Apr 2025 13:24

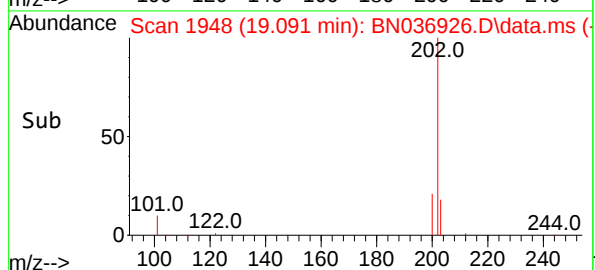
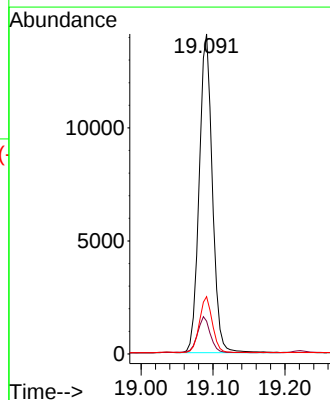
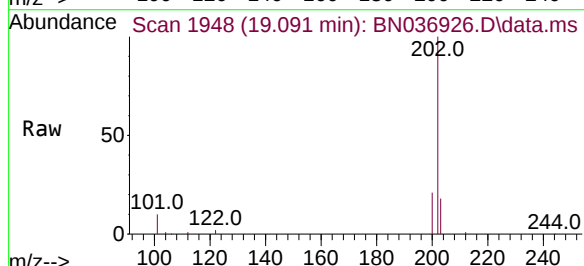
Tgt Ion:202 Resp: 17952

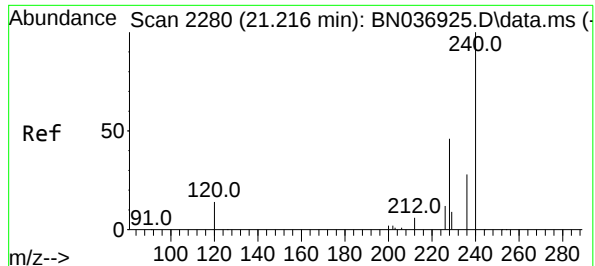
Ion Ratio Lower Upper

202 100

101 11.1 8.5 12.7

203 17.1 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.215 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036926.D

Acq: 28 Apr 2025 13:24

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8

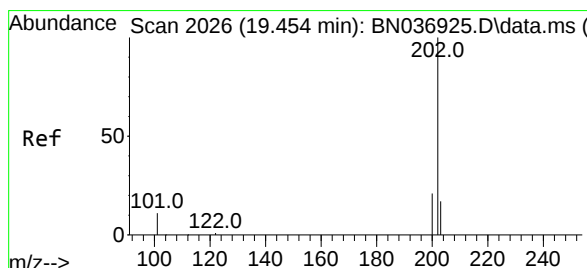
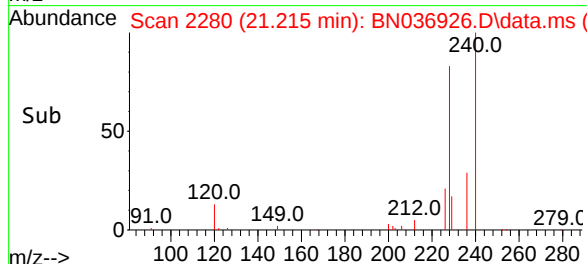
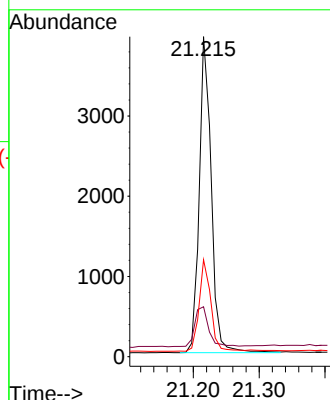
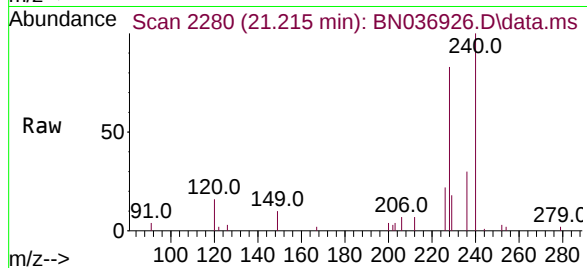
Tgt Ion:240 Resp: 4993

Ion Ratio Lower Upper

240 100

120 15.6 14.1 21.1

236 30.3 23.8 35.8



#30

Pyrene

Concen: 0.741 ng

RT: 19.453 min Scan# 2026

Delta R.T. -0.000 min

Lab File: BN036926.D

Acq: 28 Apr 2025 13:24

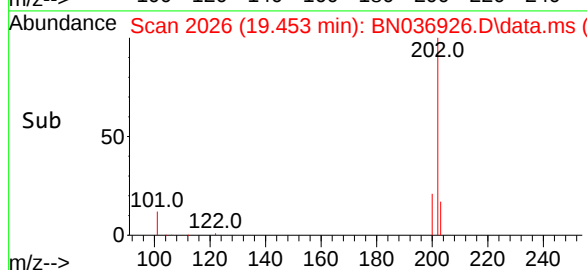
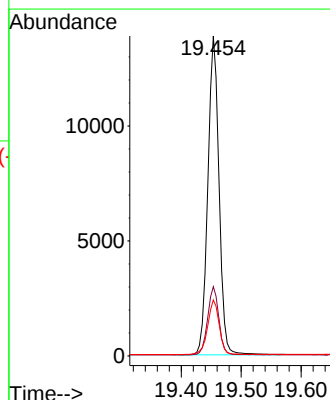
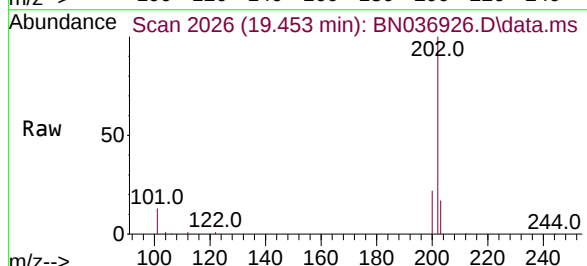
Tgt Ion:202 Resp: 17990

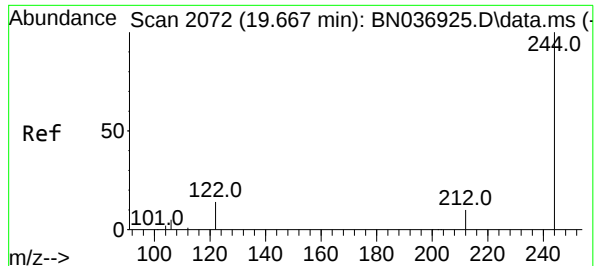
Ion Ratio Lower Upper

202 100

200 21.4 17.0 25.6

203 17.7 14.0 21.0

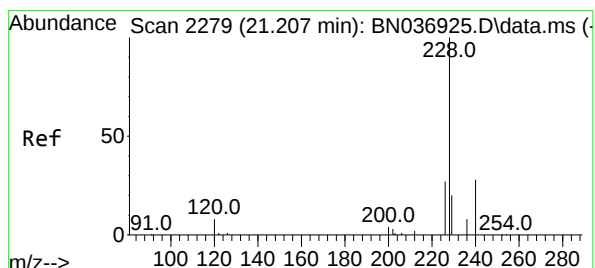
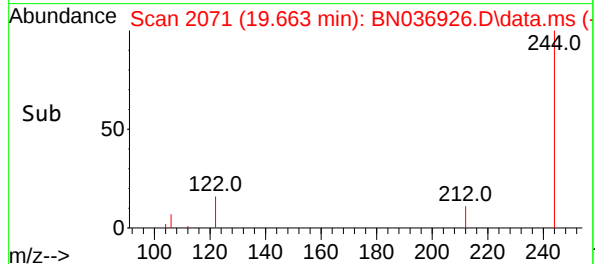
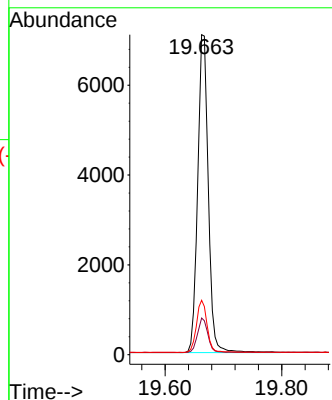
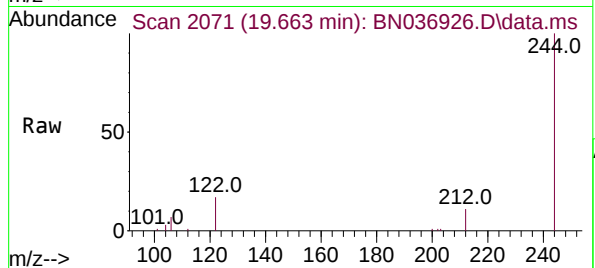




#31  
Terphenyl-d14  
Concen: 0.750 ng  
RT: 19.663 min Scan# 2071  
Delta R.T. -0.005 min  
Lab File: BN036926.D  
Acq: 28 Apr 2025 13:24

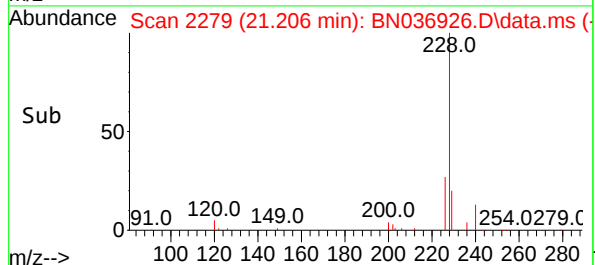
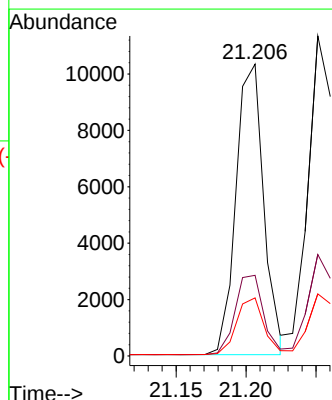
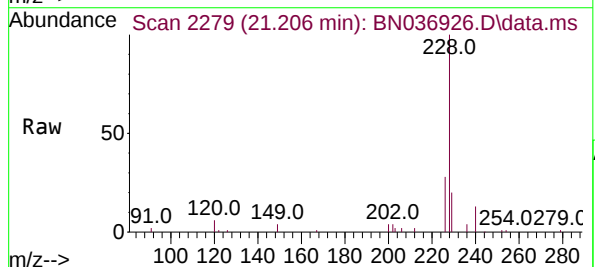
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

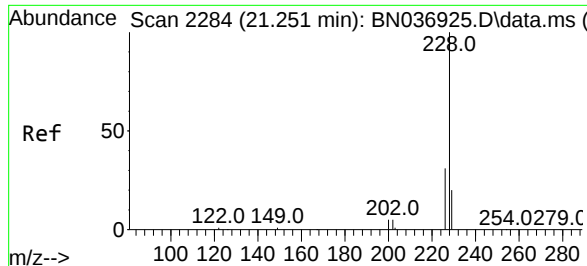
Tgt Ion:244 Resp: 8916  
Ion Ratio Lower Upper  
244 100  
212 11.4 9.6 14.4  
122 17.0 12.7 19.1



#32  
Benzo(a)anthracene  
Concen: 0.780 ng  
RT: 21.206 min Scan# 2279  
Delta R.T. -0.000 min  
Lab File: BN036926.D  
Acq: 28 Apr 2025 13:24

Tgt Ion:228 Resp: 14201  
Ion Ratio Lower Upper  
228 100  
226 27.7 22.2 33.4  
229 19.9 16.4 24.6





#33

Chrysene

Concen: 0.792 ng

RT: 21.251 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036926.D

Acq: 28 Apr 2025 13:24

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8

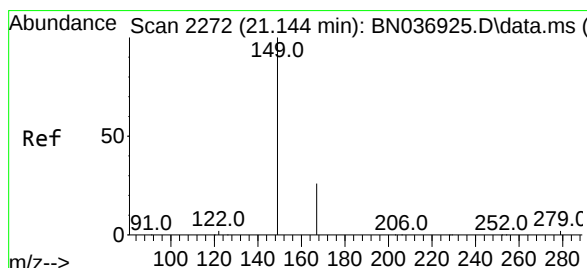
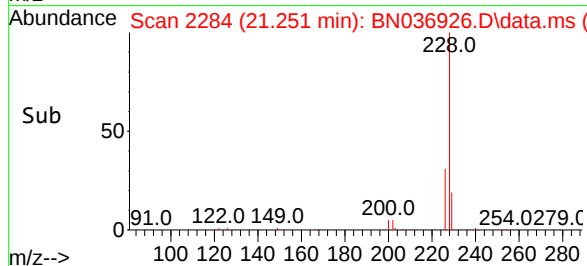
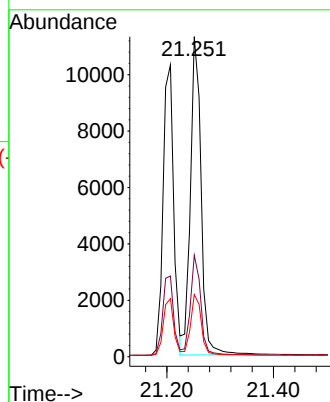
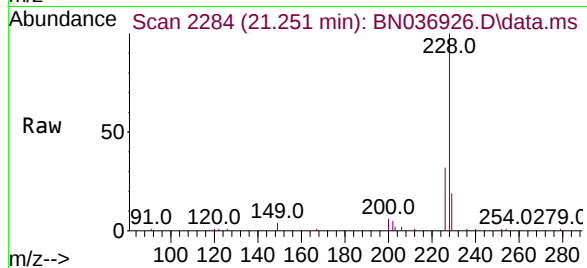
Tgt Ion:228 Resp: 15802

Ion Ratio Lower Upper

228 100

226 31.7 25.5 38.3

229 19.4 16.5 24.7



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.753 ng

RT: 21.144 min Scan# 2272

Delta R.T. -0.000 min

Lab File: BN036926.D

Acq: 28 Apr 2025 13:24

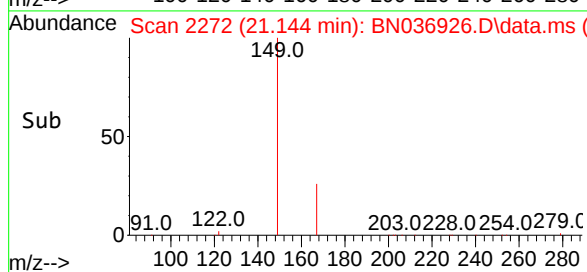
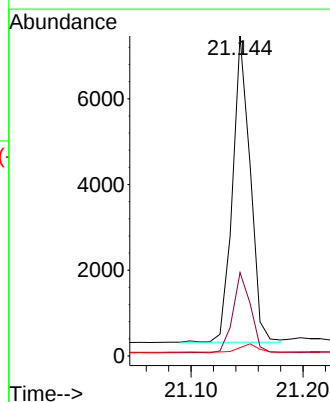
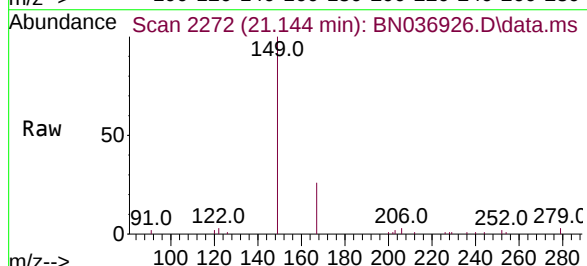
Tgt Ion:149 Resp: 7831

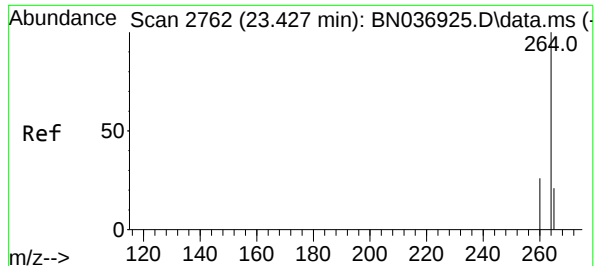
Ion Ratio Lower Upper

149 100

167 26.1 21.0 31.6

279 2.7 2.7 4.1#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.427 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036926.D

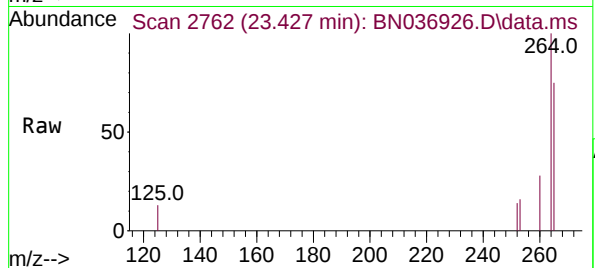
Acq: 28 Apr 2025 13:24

Instrument :

BNA\_N

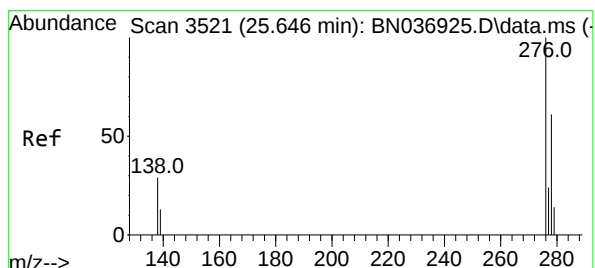
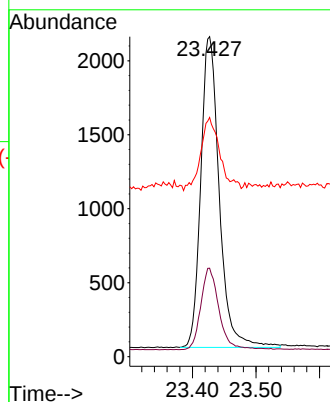
ClientSampleId :

SSTDICC0.8



Tgt Ion:264 Resp: 4243

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 27.6  | 22.2  | 33.2  |
| 265 | 74.8  | 65.8  | 98.6  |



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.734 ng

RT: 25.643 min Scan# 3520

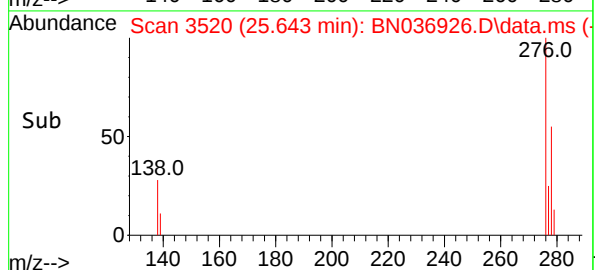
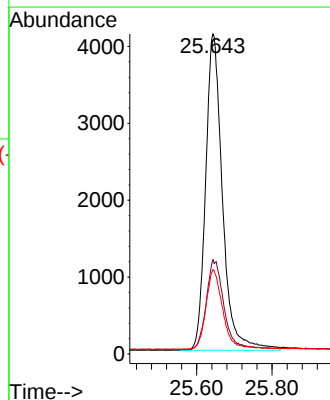
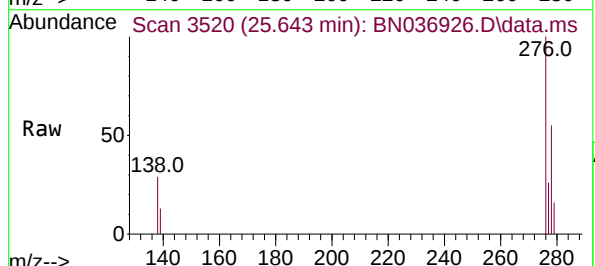
Delta R.T. -0.003 min

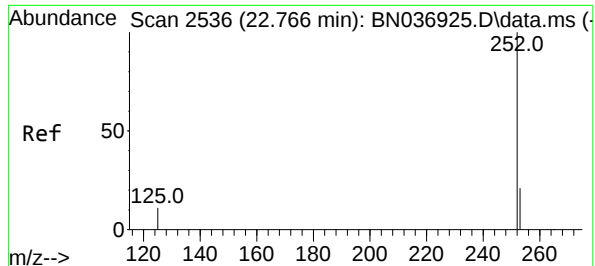
Lab File: BN036926.D

Acq: 28 Apr 2025 13:24

Tgt Ion:276 Resp: 12758

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100   |       |       |
| 138 | 28.8  | 23.0  | 34.6  |
| 277 | 25.0  | 20.0  | 30.0  |





#37

Benzo(b)fluoranthene

Concen: 0.786 ng

RT: 22.766 min Scan# 2536

Delta R.T. -0.000 min

Lab File: BN036926.D

Acq: 28 Apr 2025 13:24

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8

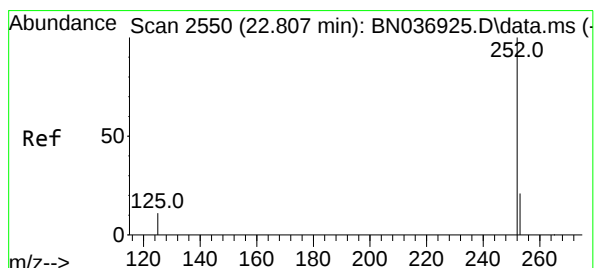
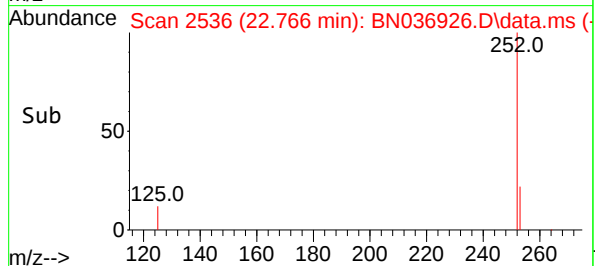
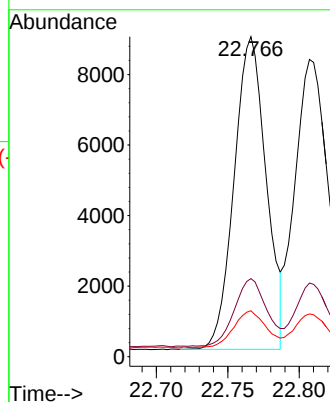
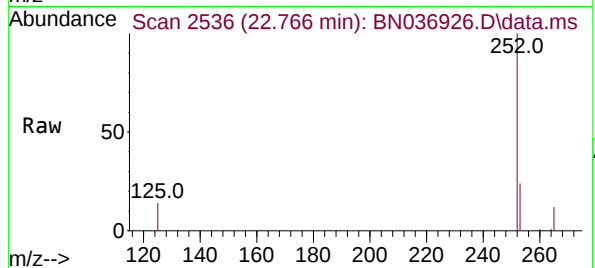
Tgt Ion:252 Resp: 13818

Ion Ratio Lower Upper

252 100

253 24.4 22.1 33.1

125 14.3 14.2 21.2



#38

Benzo(k)fluoranthene

Concen: 0.783 ng

RT: 22.807 min Scan# 2550

Delta R.T. -0.000 min

Lab File: BN036926.D

Acq: 28 Apr 2025 13:24

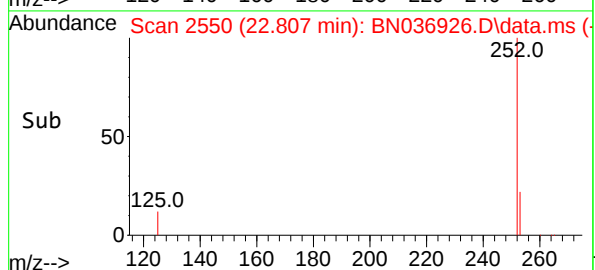
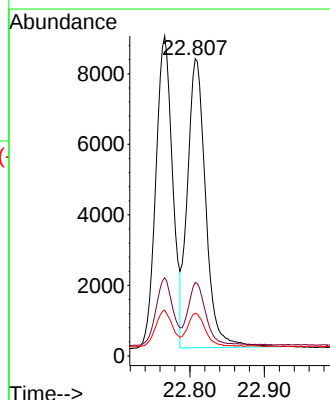
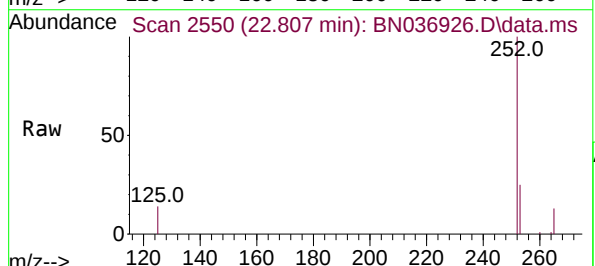
Tgt Ion:252 Resp: 13927

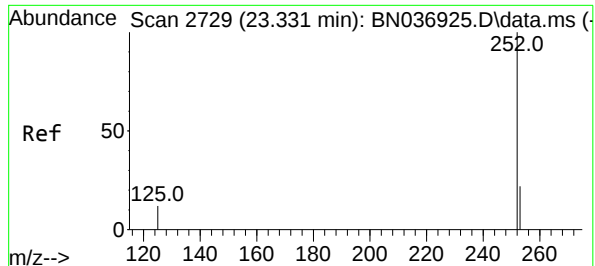
Ion Ratio Lower Upper

252 100

253 24.8 22.8 34.2

125 14.4 14.2 21.2





#39

Benzo(a)pyrene

Concen: 0.770 ng

RT: 23.330 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036926.D

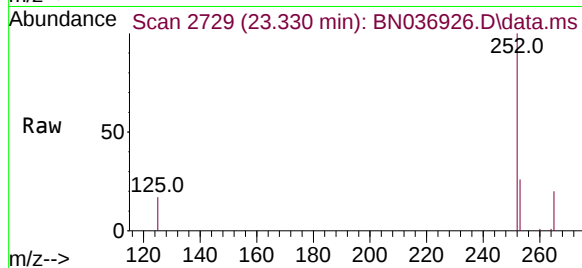
Acq: 28 Apr 2025 13:24

Instrument :

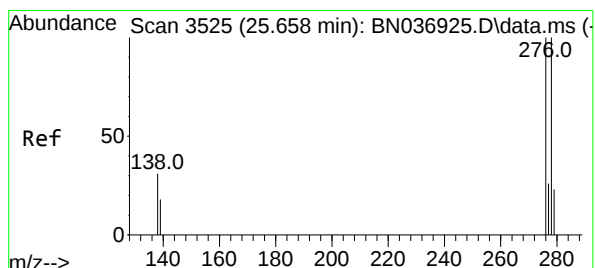
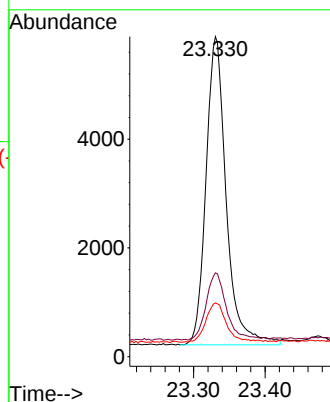
BNA\_N

ClientSampleId :

SSTDICC0.8



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 11160 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 26.2  | 25.9  | 38.9  |
| 125       | 16.8  | 17.4  | 26.0# |



#40

Dibenzo(a,h)anthracene

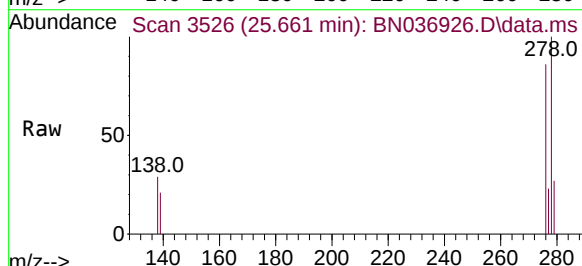
Concen: 0.730 ng

RT: 25.661 min Scan# 3526

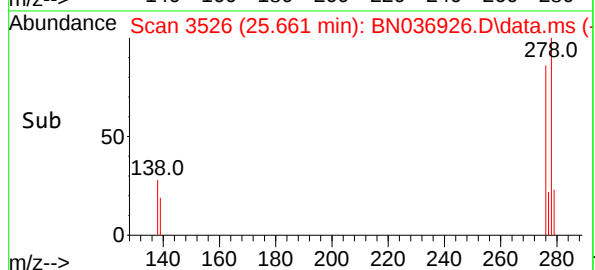
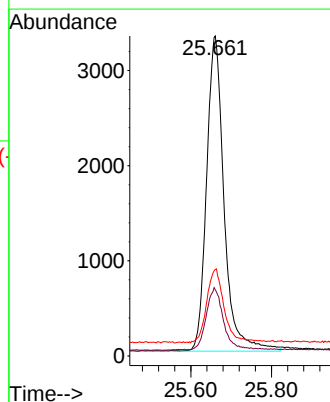
Delta R.T. 0.003 min

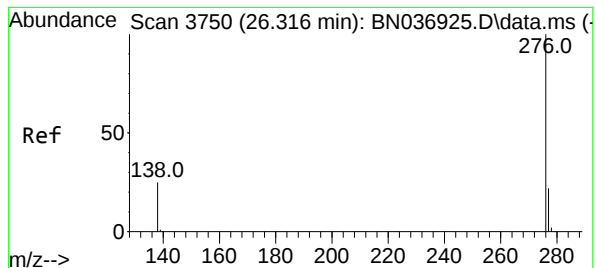
Lab File: BN036926.D

Acq: 28 Apr 2025 13:24



|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 278   | Resp: | 9982 |
| Ion Ratio | Lower | Upper |      |
| 278       | 100   |       |      |
| 139       | 20.7  | 17.4  | 26.2 |
| 279       | 27.0  | 24.9  | 37.3 |





#41

Benzo(g,h,i)perylene

Concen: 0.724 ng

RT: 26.321 min Scan# 31

Delta R.T. 0.006 min

Lab File: BN036926.D

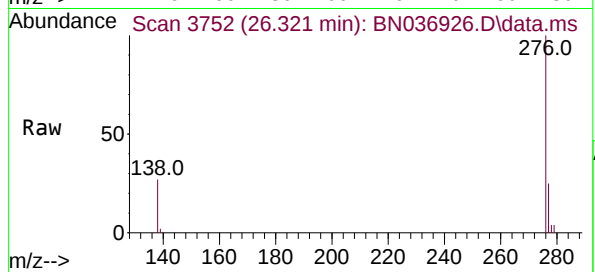
Acq: 28 Apr 2025 13:24

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8



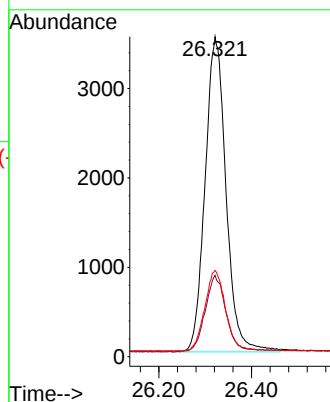
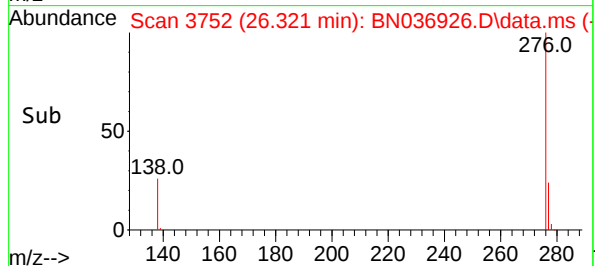
Tgt Ion:276 Resp: 11072

Ion Ratio Lower Upper

276 100

277 25.4 20.2 30.2

138 27.0 21.9 32.9



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN042825\  
 Data File : BN036927.D  
 Acq On : 28 Apr 2025 14:00  
 Operator : RC/JU  
 Sample : SSTDICC1.6  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC1.6

Quant Time: Apr 28 15:13:40 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN042825.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Apr 28 15:11:09 2025  
 Response via : Initial Calibration

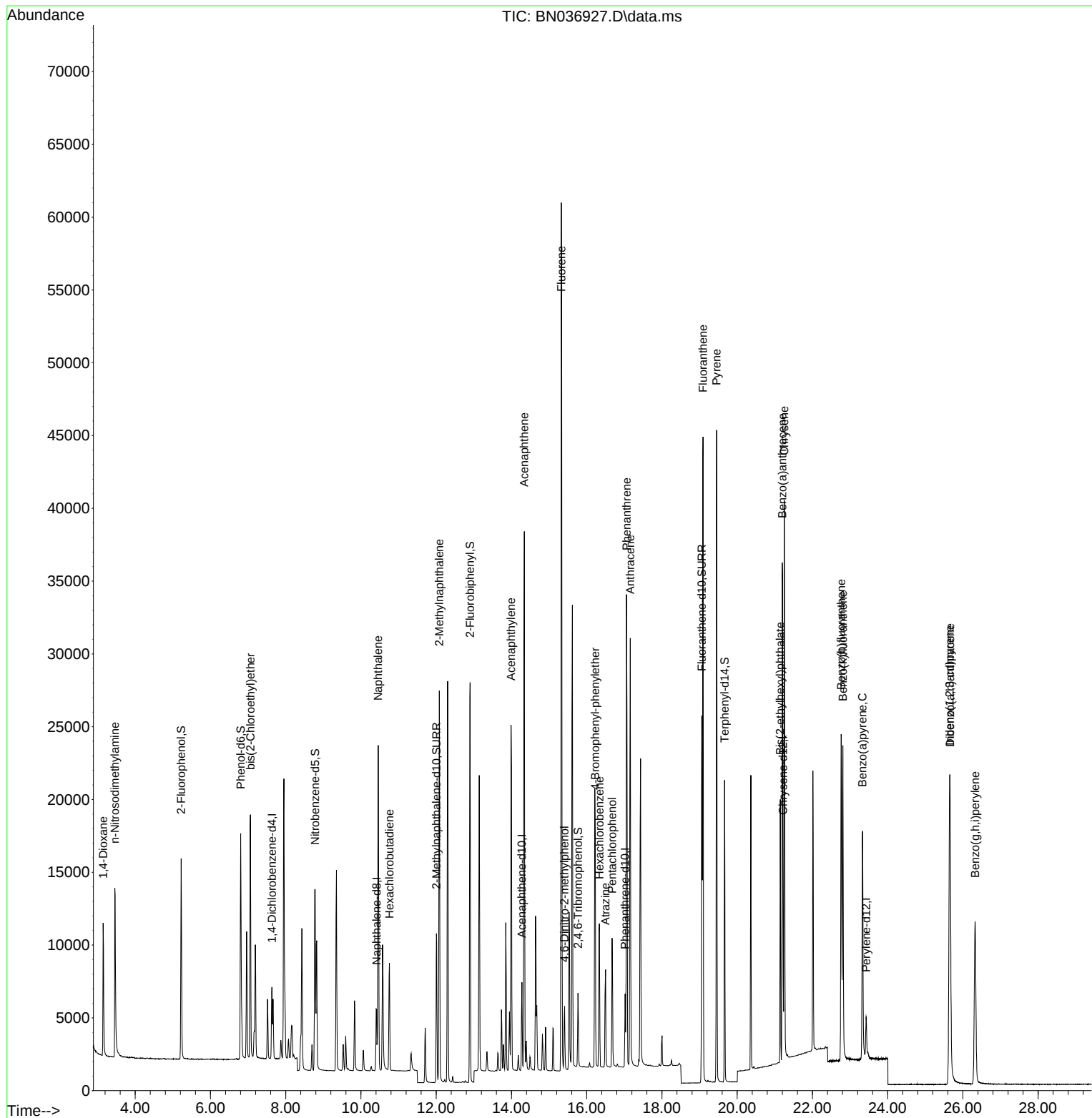
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.633  | 152  | 2241     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.415 | 136  | 5594     | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 14.277 | 164  | 3185     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 17.021 | 188  | 6118     | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 21.215 | 240  | 4605     | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.427 | 264  | 3734     | 0.400 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.220  | 112  | 9327     | 1.613 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.802  | 99   | 11600    | 1.647 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.781  | 82   | 9972     | 1.716 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 12.006 | 152  | 13343    | 1.720 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.767 | 330  | 2388     | 1.711 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.898 | 172  | 25773    | 1.673 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 19.059 | 212  | 26603    | 1.699 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.667 | 244  | 18514    | 1.689 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
|                               |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.148  | 88   | 4813     | 1.701 | ng    | 96       |
| 3) n-Nitrosodimethylamine     | 3.458  | 42   | 9269     | 1.696 | ng    | # 98     |
| 6) bis(2-Chloroethyl)ether    | 7.062  | 93   | 11118    | 1.699 | ng    | 99       |
| 9) Naphthalene                | 10.458 | 128  | 27421    | 1.684 | ng    | 98       |
| 10) Hexachlorobutadiene       | 10.756 | 225  | 5873     | 1.655 | ng    | # 98     |
| 12) 2-Methylnaphthalene       | 12.082 | 142  | 17991    | 1.727 | ng    | 99       |
| 16) Acenaphthylene            | 13.988 | 152  | 26335    | 1.708 | ng    | 100      |
| 17) Acenaphthene              | 14.341 | 154  | 16981    | 1.665 | ng    | 99       |
| 18) Fluorene                  | 15.325 | 166  | 22781    | 1.715 | ng    | 98       |
| 20) 4,6-Dinitro-2-methylph... | 15.410 | 198  | 2759     | 1.800 | ng    | # 58     |
| 21) 4-Bromophenyl-phenylether | 16.226 | 248  | 6907     | 1.695 | ng    | 95       |
| 22) Hexachlorobenzene         | 16.338 | 284  | 7427     | 1.650 | ng    | 99       |
| 23) Atrazine                  | 16.500 | 200  | 5555     | 1.729 | ng    | 93       |
| 24) Pentachlorophenol         | 16.673 | 266  | 3995     | 1.710 | ng    | 98       |
| 25) Phenanthrene              | 17.058 | 178  | 33948    | 1.687 | ng    | 99       |
| 26) Anthracene                | 17.157 | 178  | 31205    | 1.734 | ng    | 100      |
| 28) Fluoranthene              | 19.091 | 202  | 38607    | 1.732 | ng    | 99       |
| 30) Pyrene                    | 19.453 | 202  | 38176    | 1.706 | ng    | 100      |
| 32) Benzo(a)anthracene        | 21.197 | 228  | 29164    | 1.737 | ng    | 98       |
| 33) Chrysene                  | 21.251 | 228  | 31322    | 1.703 | ng    | 98       |
| 34) Bis(2-ethylhexyl)phtha... | 21.144 | 149  | 14810    | 1.544 | ng    | 99       |
| 36) Indeno(1,2,3-cd)pyrene    | 25.643 | 276  | 25695    | 1.681 | ng    | 99       |
| 37) Benzo(b)fluoranthene      | 22.763 | 252  | 26826    | 1.733 | ng    | # 91     |
| 38) Benzo(k)fluoranthene      | 22.807 | 252  | 27065    | 1.730 | ng    | # 90     |
| 39) Benzo(a)pyrene            | 23.330 | 252  | 21844    | 1.712 | ng    | # 85     |
| 40) Dibenzo(a,h)anthracene    | 25.658 | 278  | 20274    | 1.685 | ng    | # 92     |
| 41) Benzo(g,h,i)perylene      | 26.324 | 276  | 22323    | 1.659 | ng    | 97       |
| -----                         |        |      |          |       |       |          |

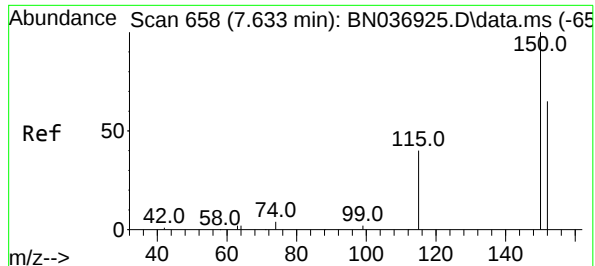
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN036927.D  
Acq On : 28 Apr 2025 14:00  
Operator : RC/JU  
Sample : SSTDICC1.6  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

Quant Time: Apr 28 15:13:40 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN042825.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Apr 28 15:11:09 2025  
Response via : Initial Calibration

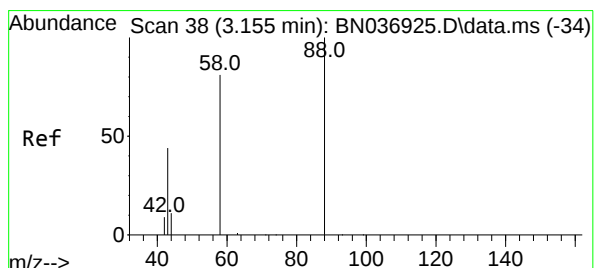
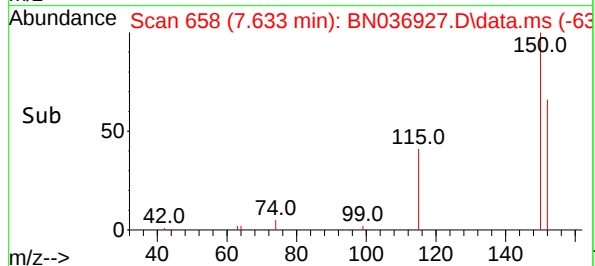
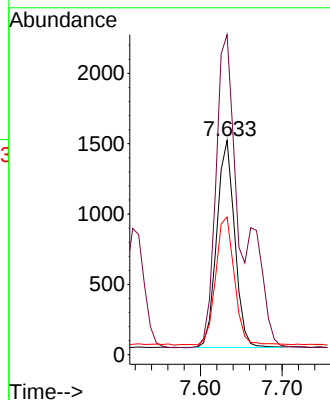
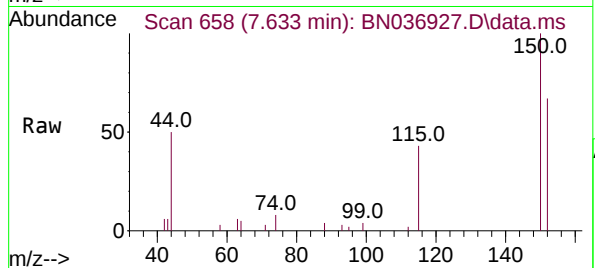




#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.633 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: BN036927.D  
Acq: 28 Apr 2025 14:00

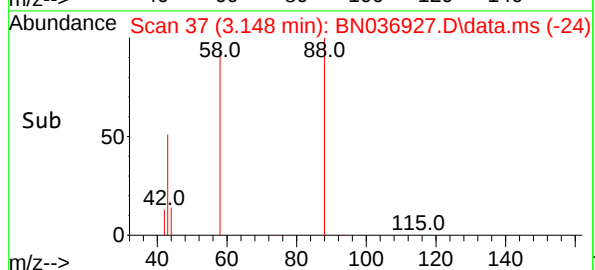
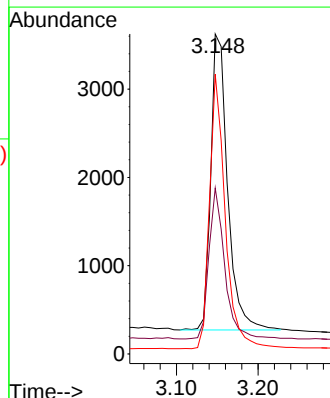
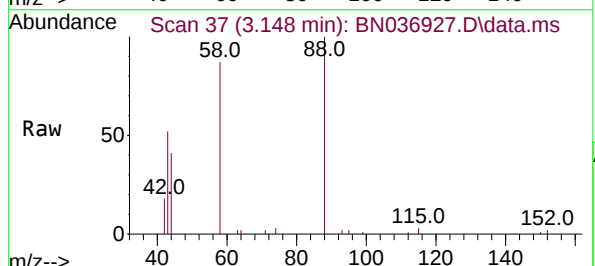
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

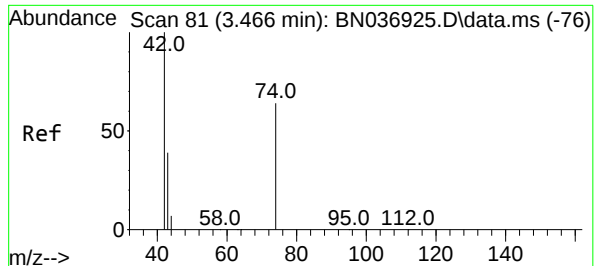
Tgt Ion:152 Resp: 2241  
Ion Ratio Lower Upper  
152 100  
150 149.4 121.1 181.7  
115 64.3 51.8 77.6



#2  
1,4-Dioxane  
Concen: 1.701 ng  
RT: 3.148 min Scan# 37  
Delta R.T. -0.007 min  
Lab File: BN036927.D  
Acq: 28 Apr 2025 14:00

Tgt Ion: 88 Resp: 4813  
Ion Ratio Lower Upper  
88 100  
43 48.0 37.9 56.9  
58 86.9 65.8 98.6

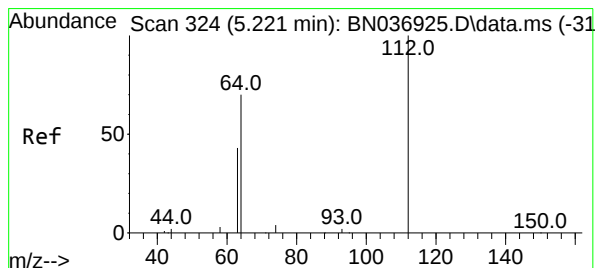
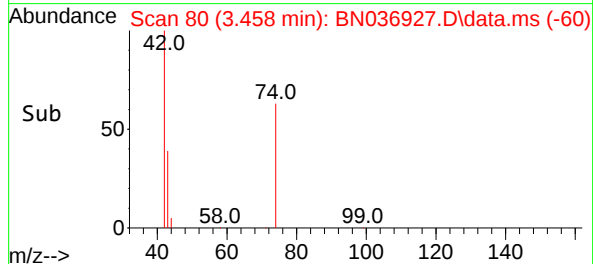
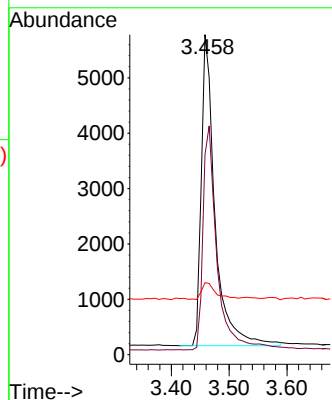
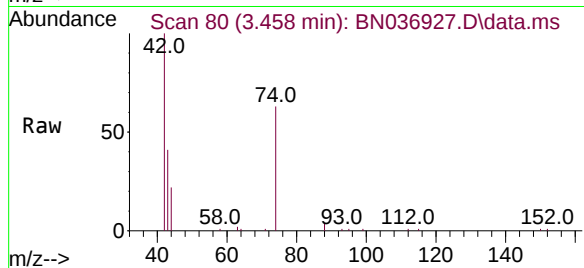




#3  
n-Nitrosodimethylamine  
Concen: 1.696 ng  
RT: 3.458 min Scan# 80  
Delta R.T. -0.007 min  
Lab File: BN036927.D  
Acq: 28 Apr 2025 14:00

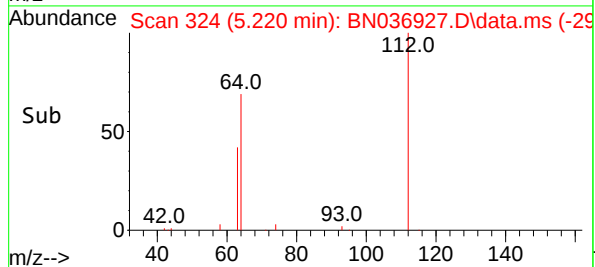
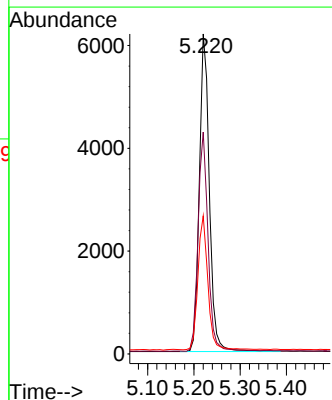
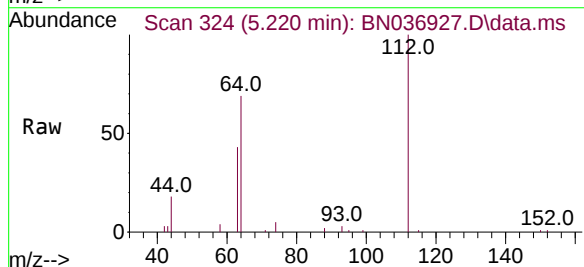
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

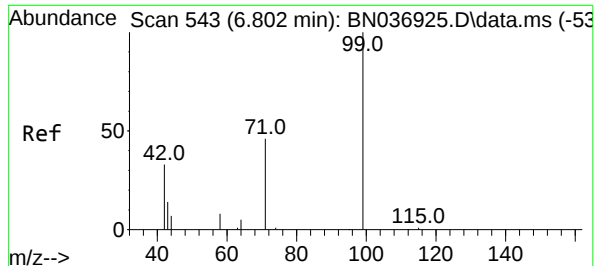
Tgt Ion: 42 Resp: 9269  
Ion Ratio Lower Upper  
42 100  
74 73.6 59.9 89.9  
44 5.5 7.5 11.3#



#4  
2-Fluorophenol  
Concen: 1.613 ng  
RT: 5.220 min Scan# 324  
Delta R.T. -0.000 min  
Lab File: BN036927.D  
Acq: 28 Apr 2025 14:00

Tgt Ion: 112 Resp: 9327  
Ion Ratio Lower Upper  
112 100  
64 68.9 55.7 83.5  
63 42.2 33.9 50.9

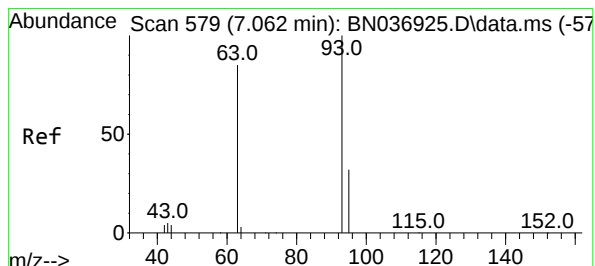
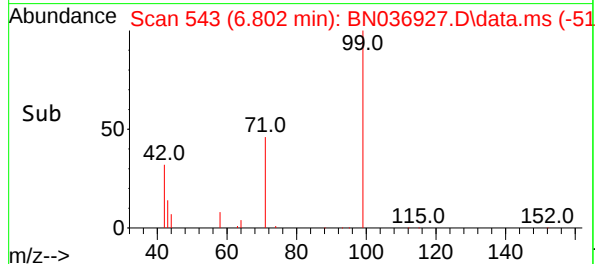
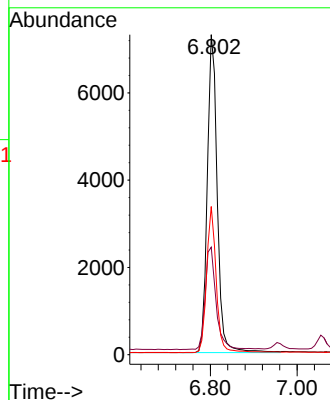
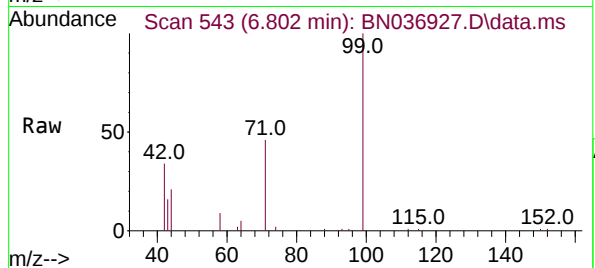




#5  
Phenol-d6  
Concen: 1.647 ng  
RT: 6.802 min Scan# 543  
Delta R.T. -0.000 min  
Lab File: BN036927.D  
Acq: 28 Apr 2025 14:00

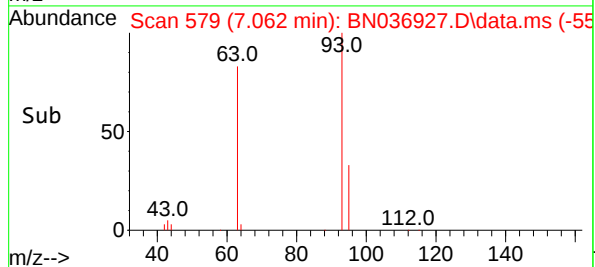
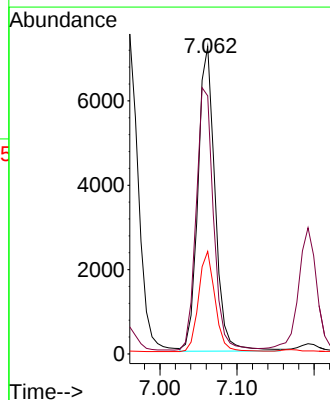
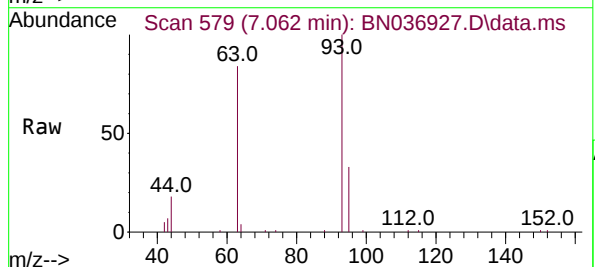
Instrument :  
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ClientSampleId :  
SSTDICC1.6

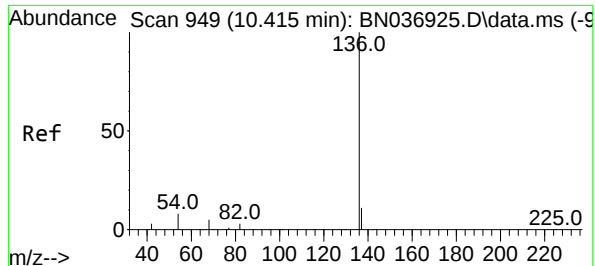
Tgt Ion: 99 Resp: 11600  
Ion Ratio Lower Upper  
99 100  
42 35.3 29.6 44.4  
71 44.4 36.0 54.0



#6  
bis(2-Chloroethyl)ether  
Concen: 1.699 ng  
RT: 7.062 min Scan# 579  
Delta R.T. -0.000 min  
Lab File: BN036927.D  
Acq: 28 Apr 2025 14:00

Tgt Ion: 93 Resp: 11118  
Ion Ratio Lower Upper  
93 100  
63 87.5 69.0 103.6  
95 31.9 25.4 38.0

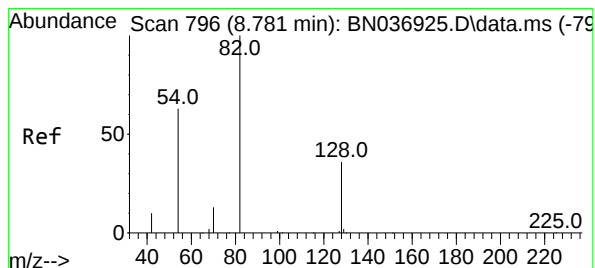
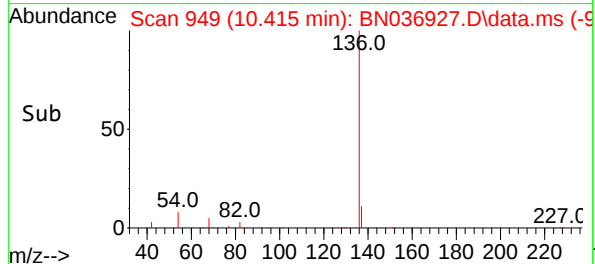
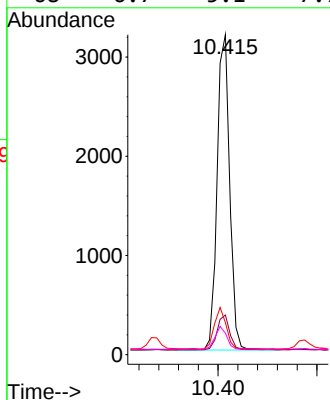
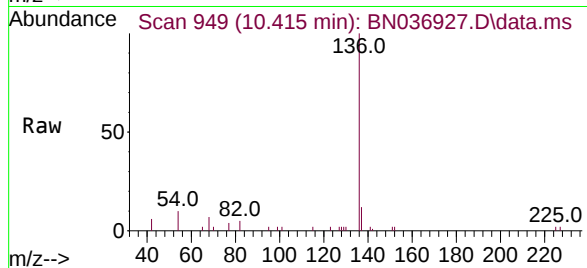




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.415 min Scan# 949  
Delta R.T. -0.000 min  
Lab File: BN036927.D  
Acq: 28 Apr 2025 14:00

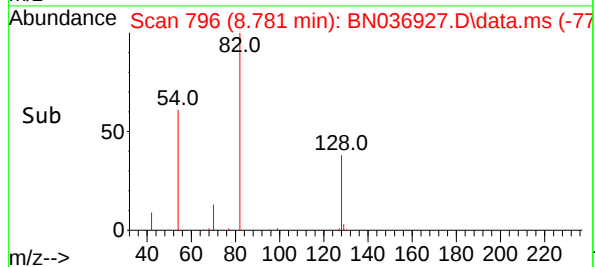
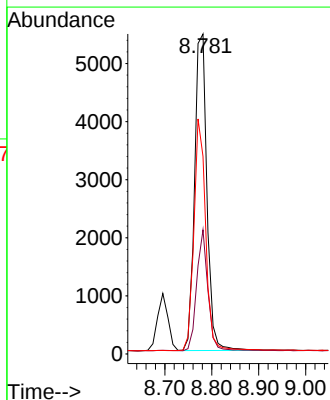
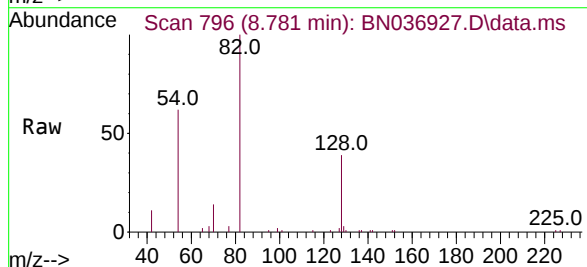
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BNA\_N  
ClientSampleId :  
SSTDICC1.6

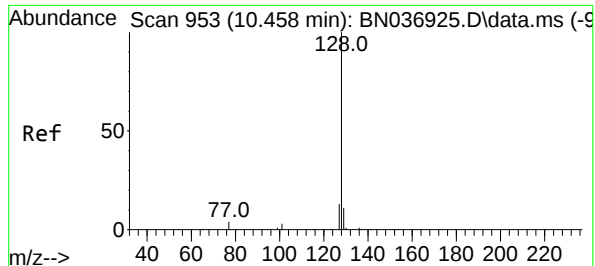
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 5594  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 12.4  | 9.7   | 14.5  |
| 54       | 10.0  | 8.0   | 12.0  |
| 68       | 6.7   | 5.1   | 7.7   |



#8  
Nitrobenzene-d5  
Concen: 1.716 ng  
RT: 8.781 min Scan# 796  
Delta R.T. -0.000 min  
Lab File: BN036927.D  
Acq: 28 Apr 2025 14:00

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 9972  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 38.8  | 30.7  | 46.1  |
| 54       | 61.8  | 52.1  | 78.1  |

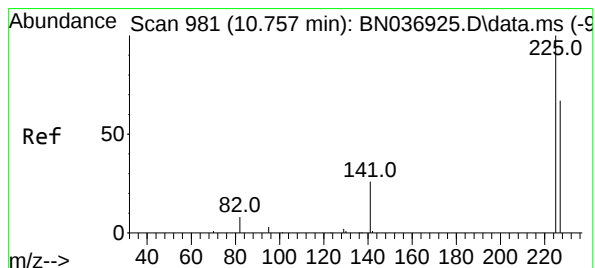
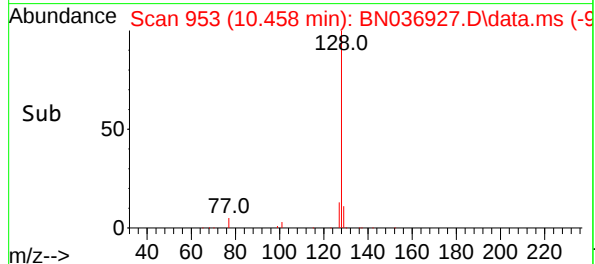
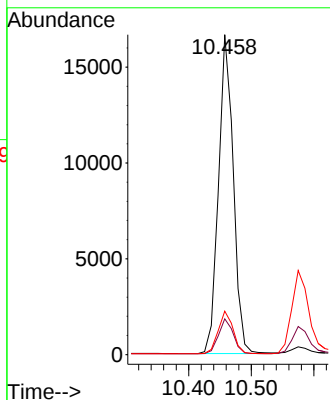
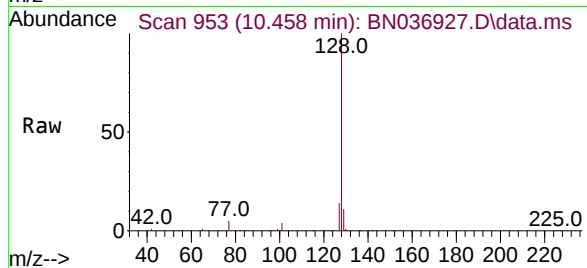




#9  
Naphthalene  
Concen: 1.684 ng  
RT: 10.458 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: BN036927.D  
Acq: 28 Apr 2025 14:00

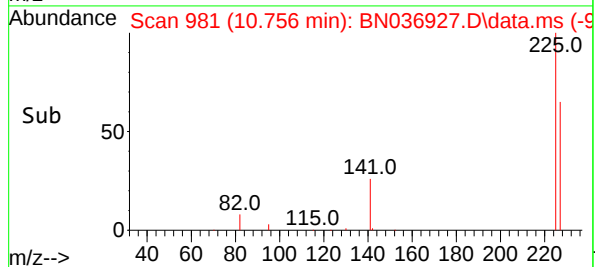
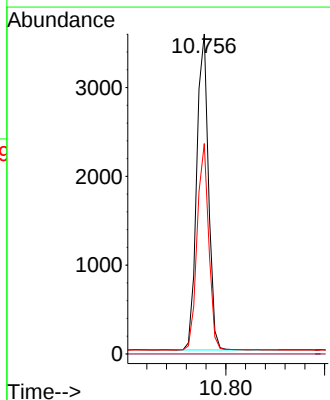
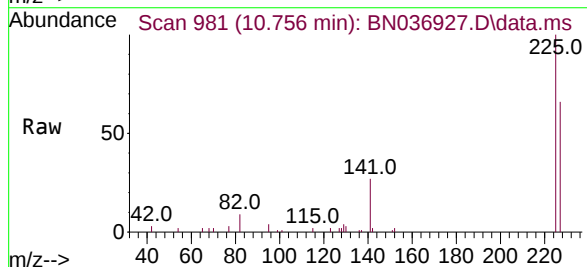
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BNA\_N  
ClientSampleId :  
SSTDICC1.6

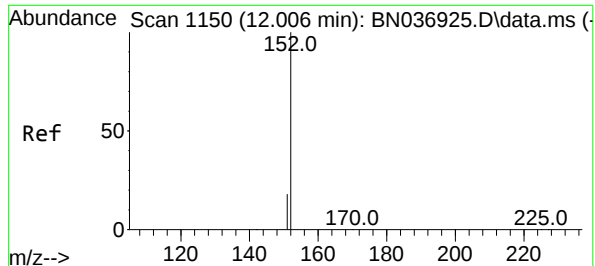
Tgt Ion:128 Resp: 27421  
Ion Ratio Lower Upper  
128 100  
129 11.2 9.8 14.6  
127 13.6 11.4 17.2



#10  
Hexachlorobutadiene  
Concen: 1.655 ng  
RT: 10.756 min Scan# 981  
Delta R.T. -0.000 min  
Lab File: BN036927.D  
Acq: 28 Apr 2025 14:00

Tgt Ion:225 Resp: 5873  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 64.1 52.2 78.4

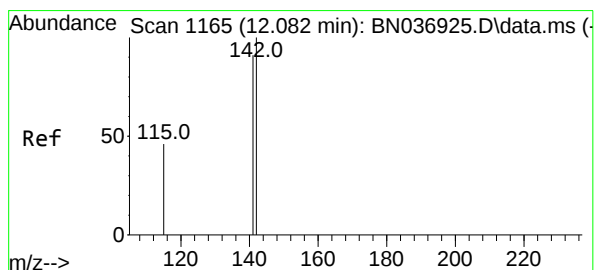
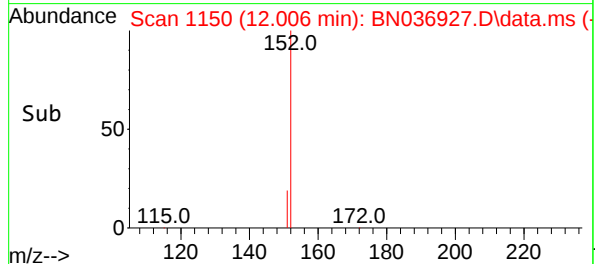
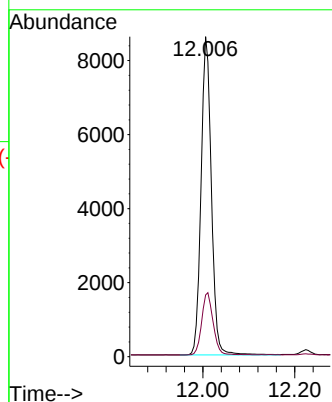
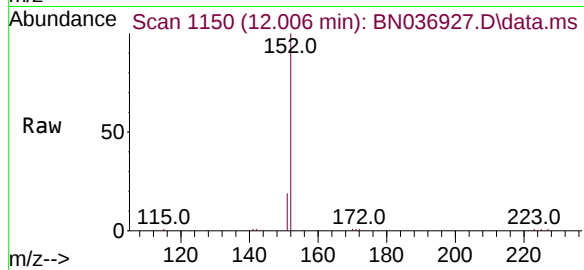




#11  
2-Methylnaphthalene-d10  
Concen: 1.720 ng  
RT: 12.006 min Scan# 1150  
Delta R.T. -0.000 min  
Lab File: BN036927.D  
Acq: 28 Apr 2025 14:00

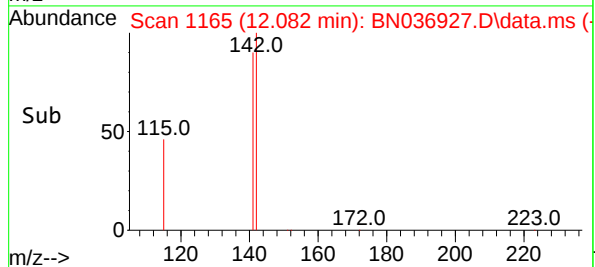
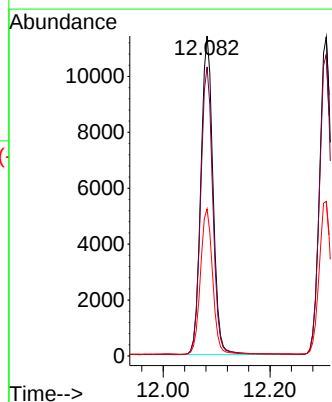
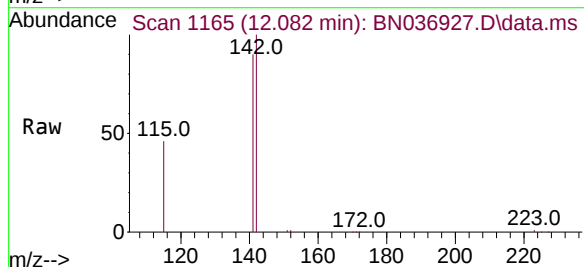
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BNA\_N  
ClientSampleId :  
SSTDICC1.6

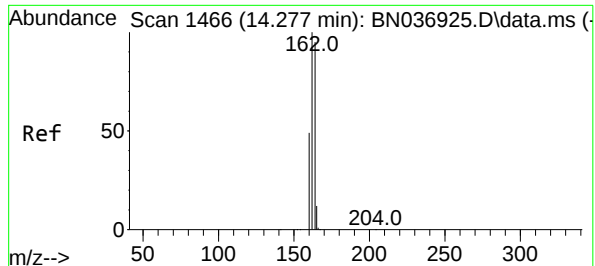
Tgt Ion:152 Resp: 13343  
Ion Ratio Lower Upper  
152 100  
151 21.6 16.9 25.3



#12  
2-Methylnaphthalene  
Concen: 1.727 ng  
RT: 12.082 min Scan# 1165  
Delta R.T. -0.000 min  
Lab File: BN036927.D  
Acq: 28 Apr 2025 14:00

Tgt Ion:142 Resp: 17991  
Ion Ratio Lower Upper  
142 100  
141 90.3 72.8 109.2  
115 46.0 38.2 57.4

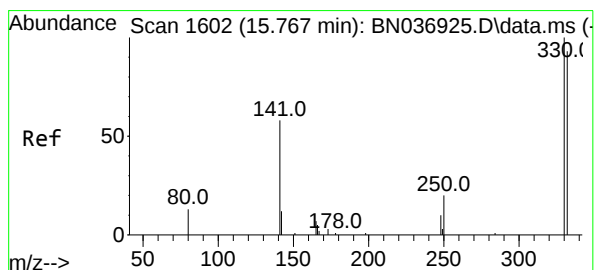
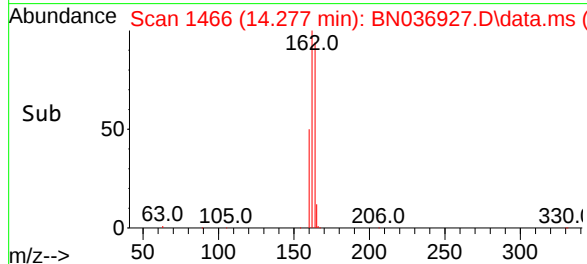
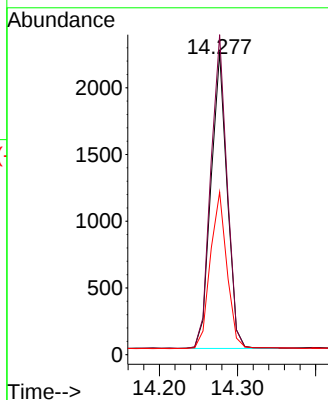
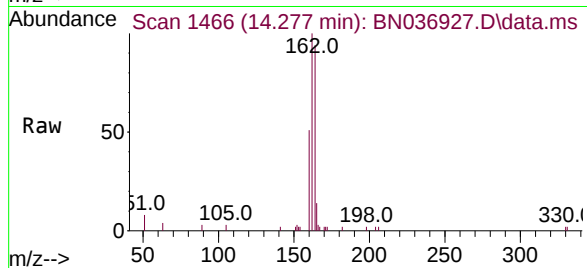




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.277 min Scan# 1466  
Delta R.T. -0.000 min  
Lab File: BN036927.D  
Acq: 28 Apr 2025 14:00

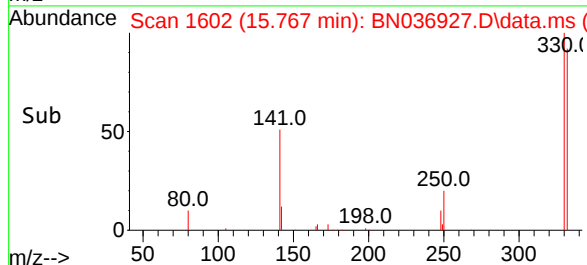
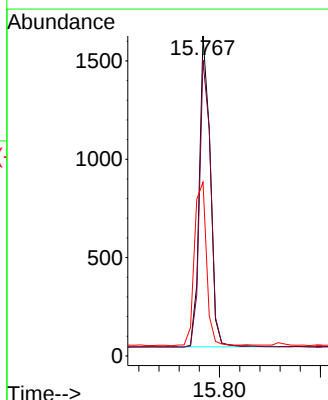
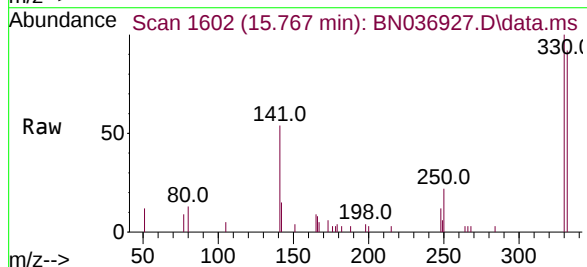
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

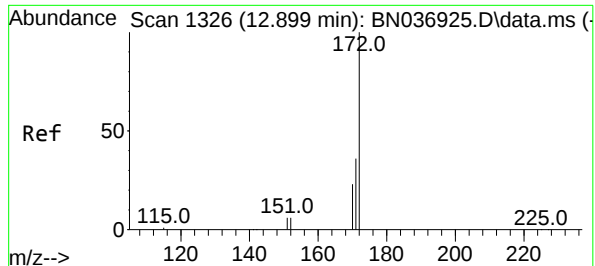
Tgt Ion:164 Resp: 3185  
Ion Ratio Lower Upper  
164 100  
162 105.9 83.8 125.8  
160 53.8 42.0 63.0



#14  
2,4,6-Tribromophenol  
Concen: 1.711 ng  
RT: 15.767 min Scan# 1602  
Delta R.T. -0.000 min  
Lab File: BN036927.D  
Acq: 28 Apr 2025 14:00

Tgt Ion:330 Resp: 2388  
Ion Ratio Lower Upper  
330 100  
332 95.3 76.3 114.5  
141 58.3 45.4 68.2

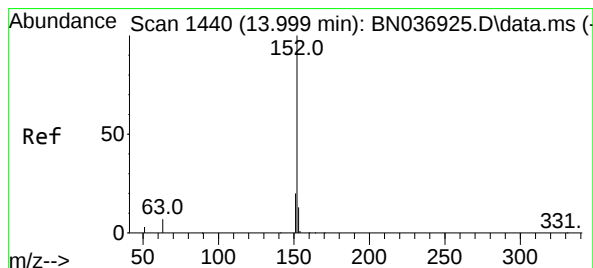
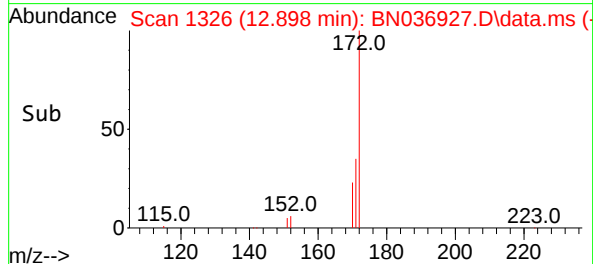
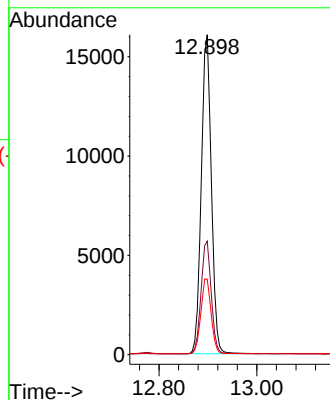
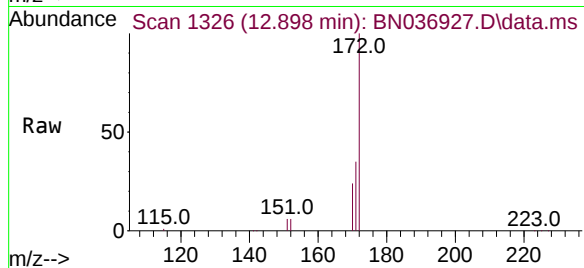




#15  
2-Fluorobiphenyl  
Concen: 1.673 ng  
RT: 12.898 min Scan# 1439  
Delta R.T. -0.000 min  
Lab File: BN036927.D  
Acq: 28 Apr 2025 14:00

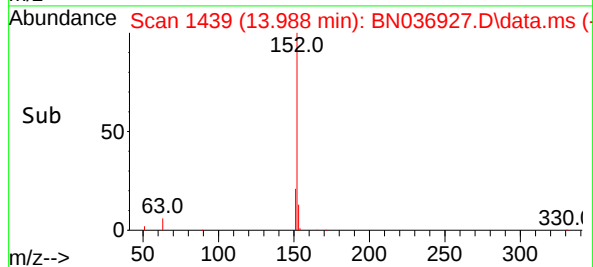
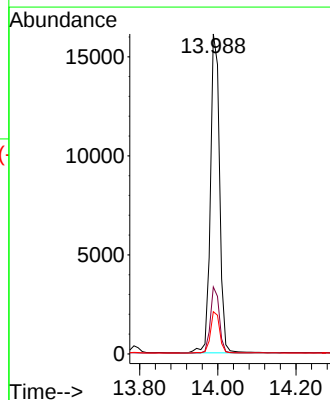
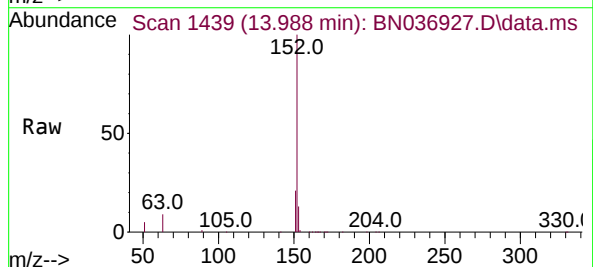
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

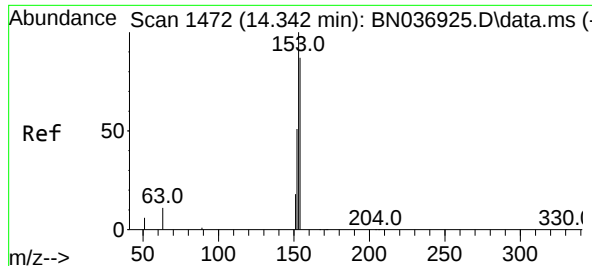
Tgt Ion:172 Resp: 25773  
Ion Ratio Lower Upper  
172 100  
171 35.5 29.4 44.0  
170 23.6 19.4 29.0



#16  
Acenaphthylene  
Concen: 1.708 ng  
RT: 13.988 min Scan# 1439  
Delta R.T. -0.011 min  
Lab File: BN036927.D  
Acq: 28 Apr 2025 14:00

Tgt Ion:152 Resp: 26335  
Ion Ratio Lower Upper  
152 100  
151 20.0 16.0 24.0  
153 13.0 10.2 15.2

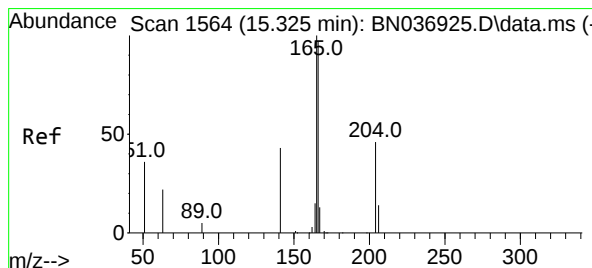
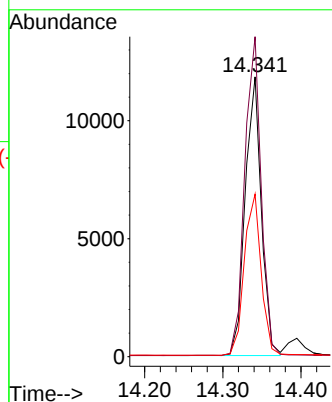
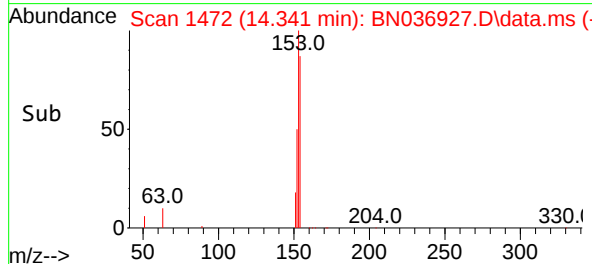
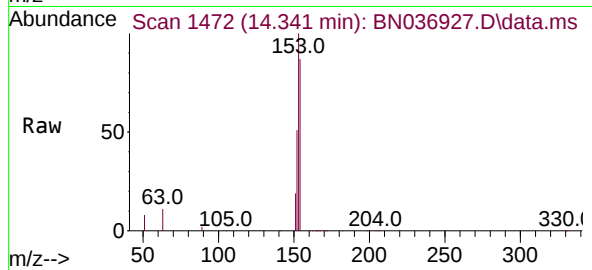




#17  
Acenaphthene  
Concen: 1.665 ng  
RT: 14.341 min Scan# 1472  
Delta R.T. -0.000 min  
Lab File: BN036927.D  
Acq: 28 Apr 2025 14:00

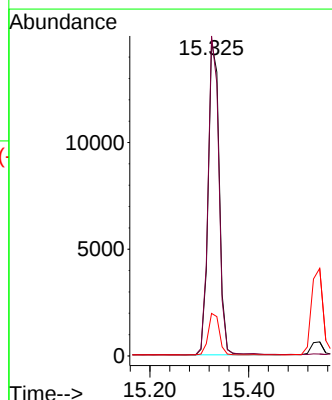
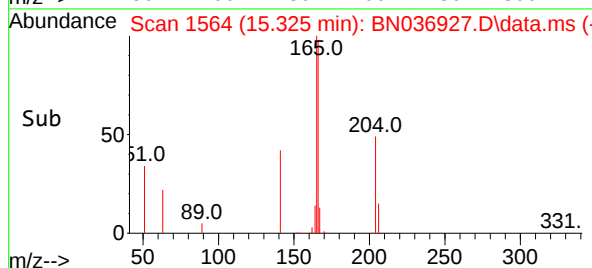
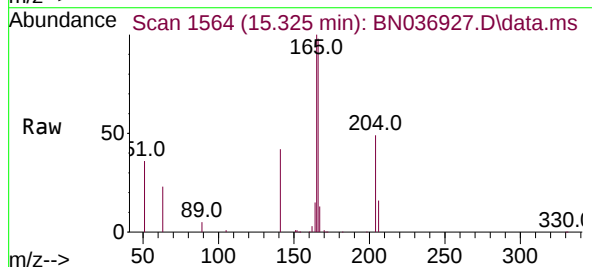
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

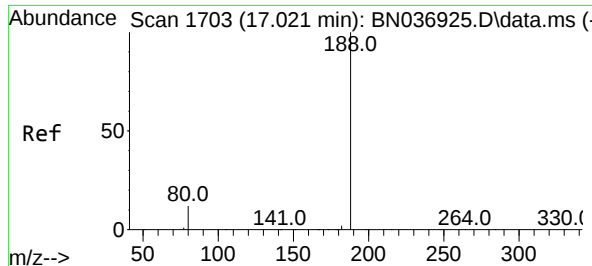
Tgt Ion:154 Resp: 16981  
Ion Ratio Lower Upper  
154 100  
153 116.6 93.4 140.2  
152 60.9 49.5 74.3



#18  
Fluorene  
Concen: 1.715 ng  
RT: 15.325 min Scan# 1564  
Delta R.T. -0.000 min  
Lab File: BN036927.D  
Acq: 28 Apr 2025 14:00

Tgt Ion:166 Resp: 22781  
Ion Ratio Lower Upper  
166 100  
165 99.0 80.8 121.2  
167 13.4 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.021 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN036927.D

Acq: 28 Apr 2025 14:00

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6

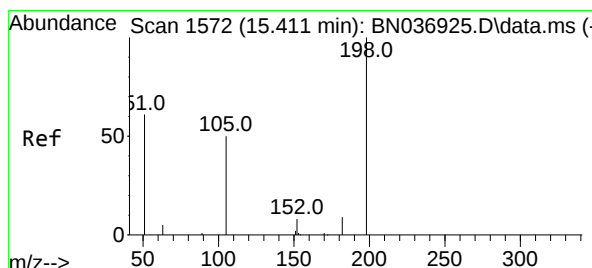
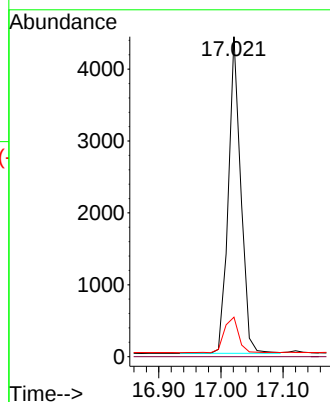
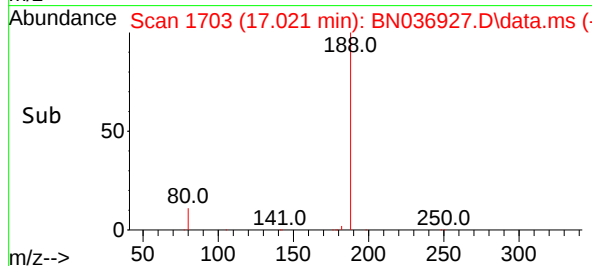
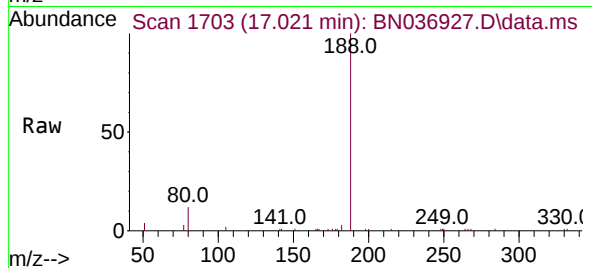
Tgt Ion:188 Resp: 6118

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 12.3 10.7 16.1



#20

4,6-Dinitro-2-methylphenol

Concen: 1.800 ng

RT: 15.410 min Scan# 1572

Delta R.T. -0.001 min

Lab File: BN036927.D

Acq: 28 Apr 2025 14:00

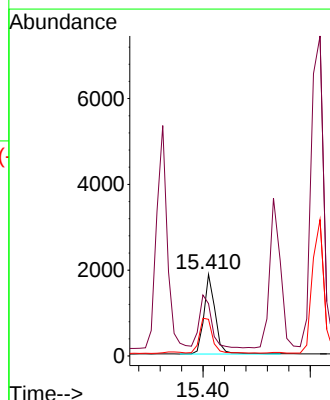
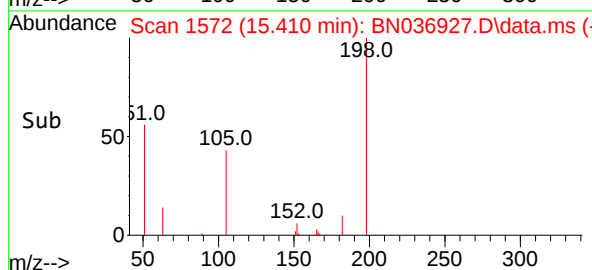
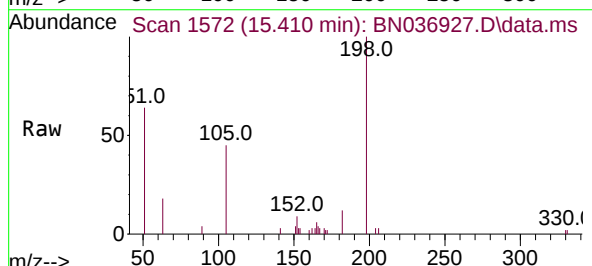
Tgt Ion:198 Resp: 2759

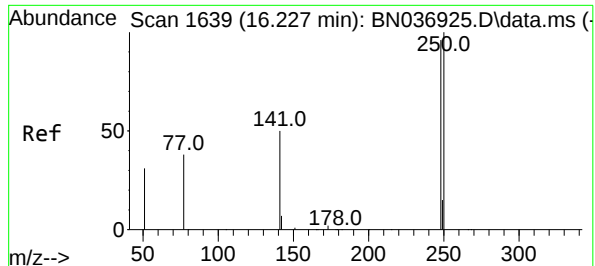
Ion Ratio Lower Upper

198 100

51 64.1 97.9 146.9#

105 44.9 50.0 75.0#

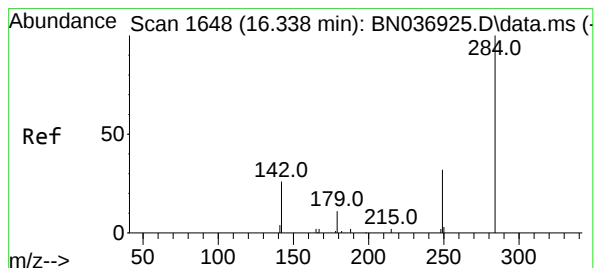
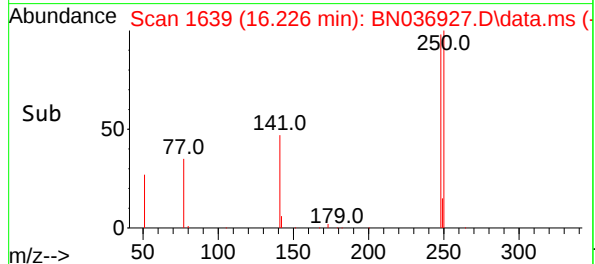
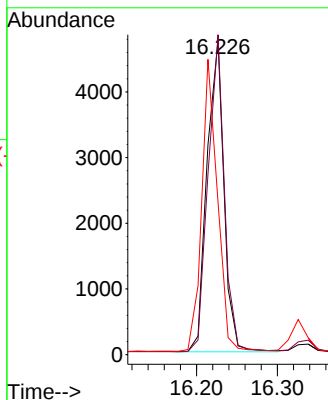
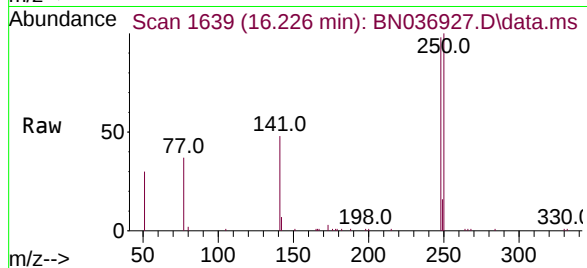




#21  
4-Bromophenyl-phenylether  
Concen: 1.695 ng  
RT: 16.226 min Scan# 1639  
Delta R.T. -0.000 min  
Lab File: BN036927.D  
Acq: 28 Apr 2025 14:00

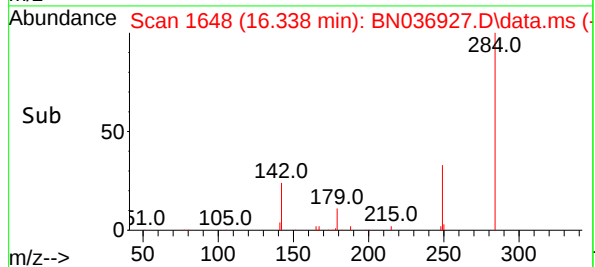
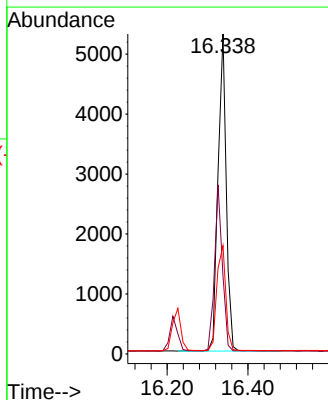
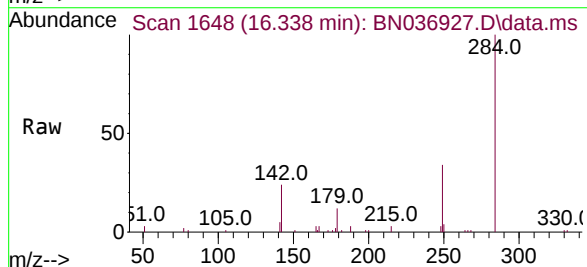
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

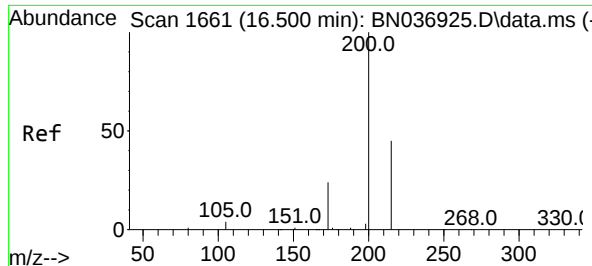
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 248     | 100   |       |       |
| 250     | 101.8 | 83.7  | 125.5 |
| 141     | 48.5  | 43.8  | 65.8  |



#22  
Hexachlorobenzene  
Concen: 1.650 ng  
RT: 16.338 min Scan# 1648  
Delta R.T. -0.000 min  
Lab File: BN036927.D  
Acq: 28 Apr 2025 14:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 284     | 100   |       |       |
| 142     | 50.5  | 40.0  | 60.0  |
| 249     | 36.5  | 28.2  | 42.2  |

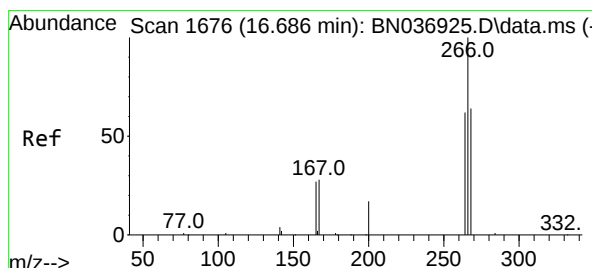
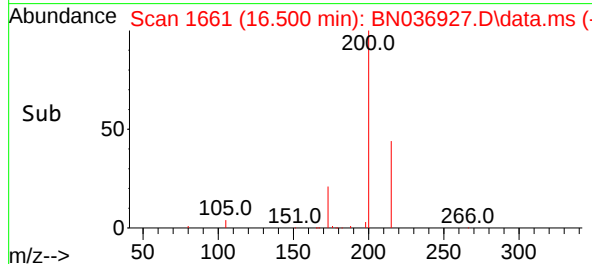
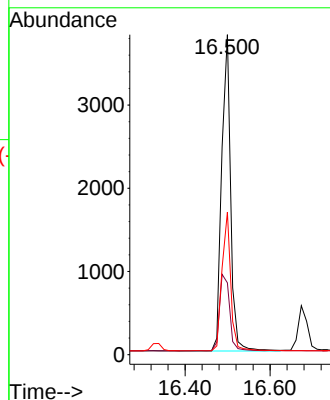
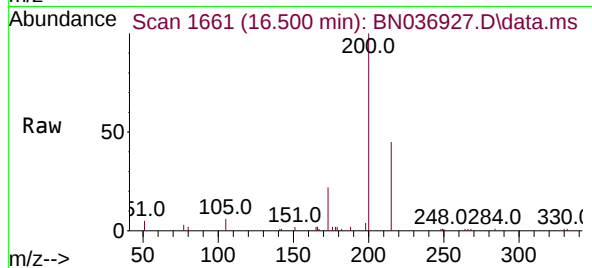




#23  
Atrazine  
Concen: 1.729 ng  
RT: 16.500 min Scan# 1661  
Delta R.T. -0.000 min  
Lab File: BN036927.D  
Acq: 28 Apr 2025 14:00

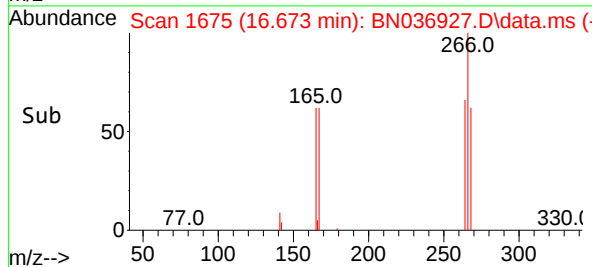
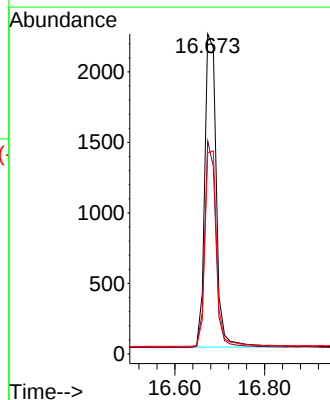
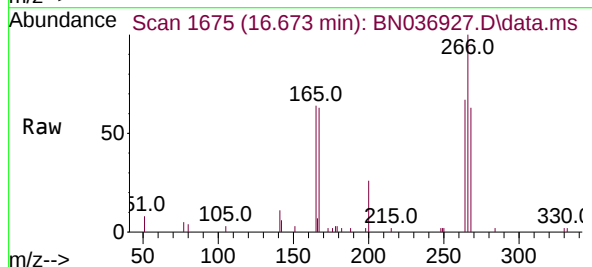
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

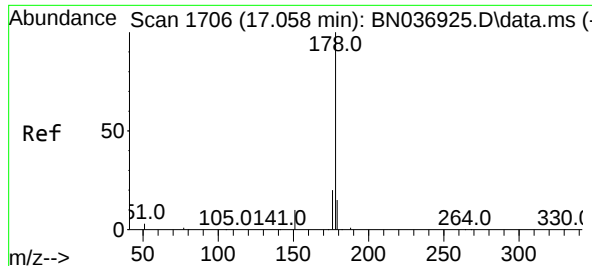
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 200     | 100   |       |       |
| 173     | 22.5  | 22.4  | 33.6  |
| 215     | 44.6  | 38.6  | 57.8  |



#24  
Pentachlorophenol  
Concen: 1.710 ng  
RT: 16.673 min Scan# 1675  
Delta R.T. -0.013 min  
Lab File: BN036927.D  
Acq: 28 Apr 2025 14:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 266     | 100   |       |       |
| 264     | 63.3  | 49.9  | 74.9  |
| 268     | 63.2  | 52.2  | 78.4  |

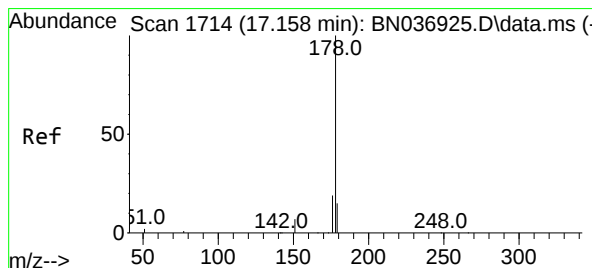
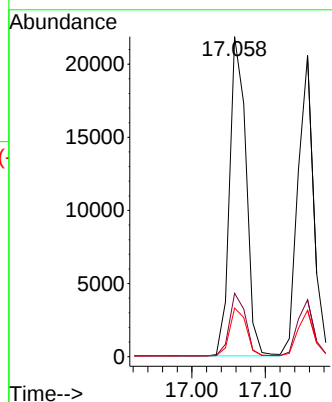
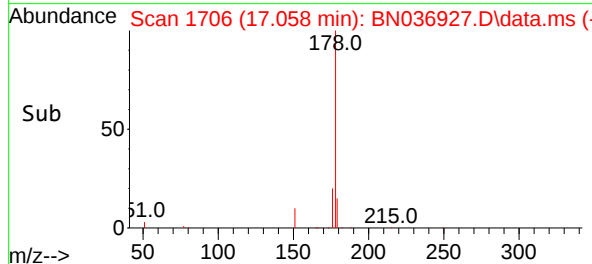
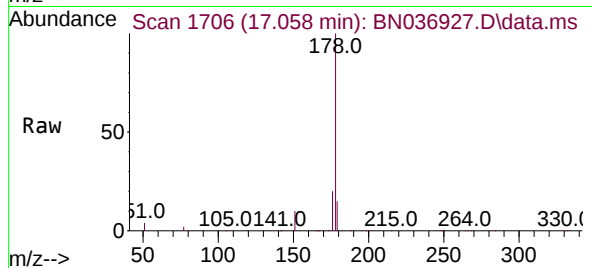




#25  
Phenanthrene  
Concen: 1.687 ng  
RT: 17.058 min Scan# 1706  
Delta R.T. -0.000 min  
Lab File: BN036927.D  
Acq: 28 Apr 2025 14:00

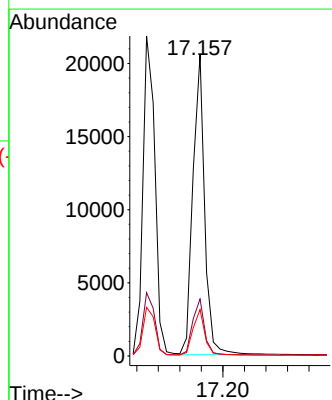
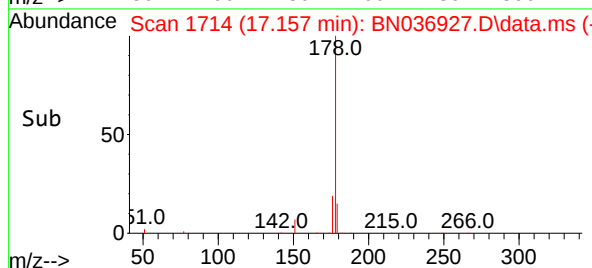
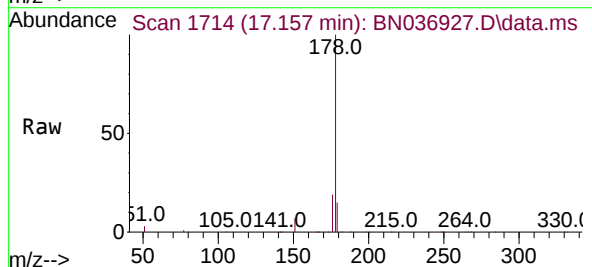
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

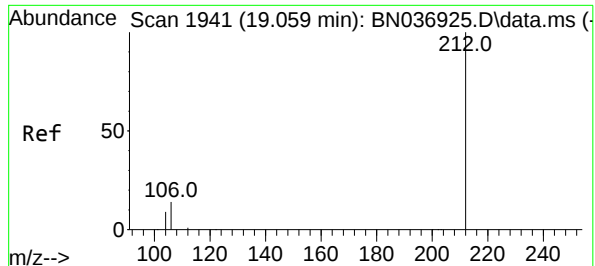
Tgt Ion:178 Resp: 33948  
Ion Ratio Lower Upper  
178 100  
176 19.4 15.7 23.5  
179 15.1 12.4 18.6



#26  
Anthracene  
Concen: 1.734 ng  
RT: 17.157 min Scan# 1714  
Delta R.T. -0.000 min  
Lab File: BN036927.D  
Acq: 28 Apr 2025 14:00

Tgt Ion:178 Resp: 31205  
Ion Ratio Lower Upper  
178 100  
176 19.1 15.3 22.9  
179 15.2 12.1 18.1





#27

Fluoranthene-d10

Concen: 1.699 ng

RT: 19.059 min Scan# 1941

Delta R.T. -0.000 min

Lab File: BN036927.D

Acq: 28 Apr 2025 14:00

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6

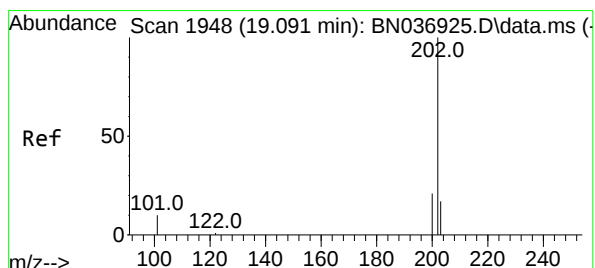
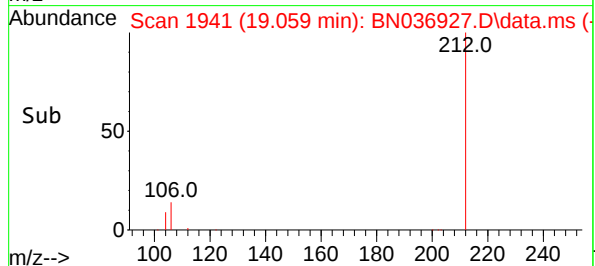
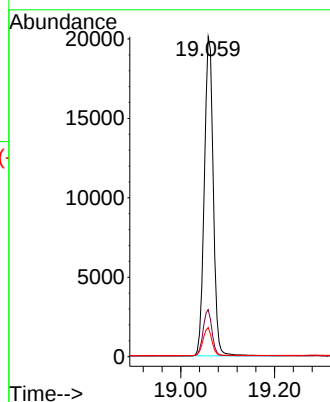
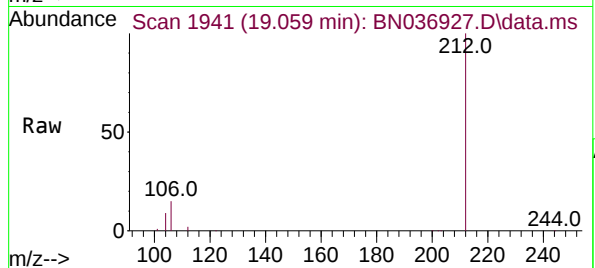
Tgt Ion:212 Resp: 26603

Ion Ratio Lower Upper

212 100

106 14.4 11.6 17.4

104 8.8 7.0 10.4



#28

Fluoranthene

Concen: 1.732 ng

RT: 19.091 min Scan# 1948

Delta R.T. -0.000 min

Lab File: BN036927.D

Acq: 28 Apr 2025 14:00

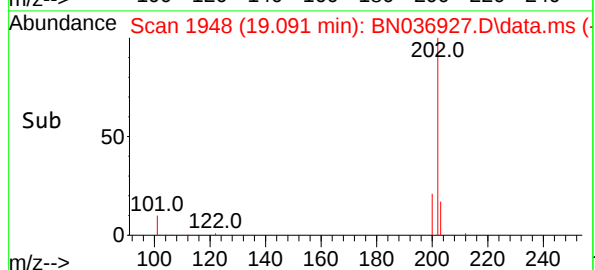
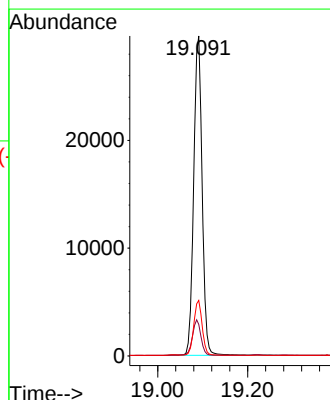
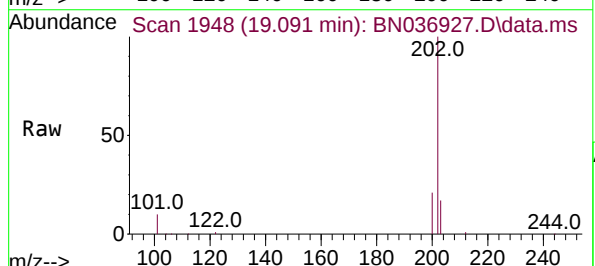
Tgt Ion:202 Resp: 38607

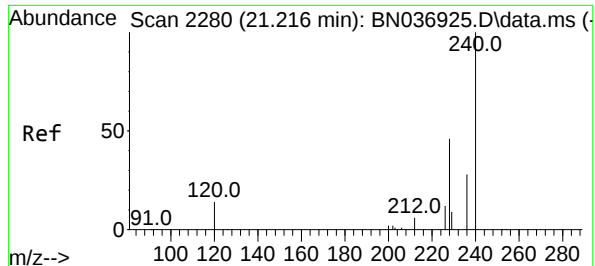
Ion Ratio Lower Upper

202 100

101 11.3 8.5 12.7

203 17.0 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.215 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036927.D

Acq: 28 Apr 2025 14:00

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6

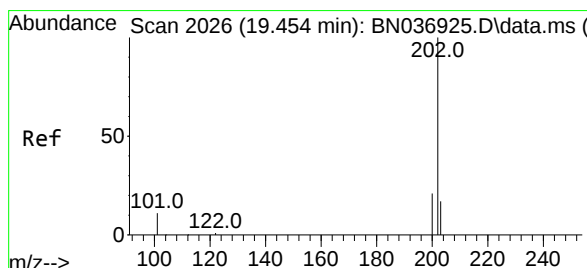
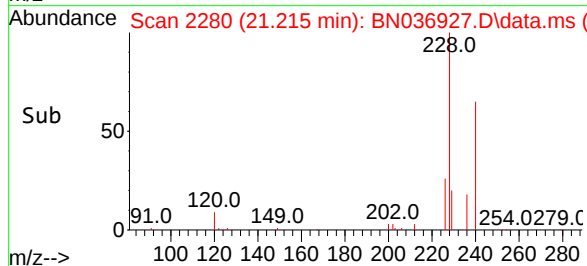
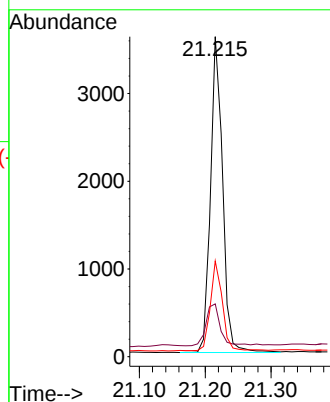
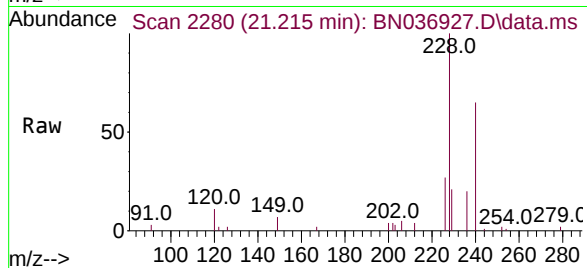
Tgt Ion:240 Resp: 4605

Ion Ratio Lower Upper

240 100

120 16.5 14.1 21.1

236 29.9 23.8 35.8



#30

Pyrene

Concen: 1.706 ng

RT: 19.453 min Scan# 2026

Delta R.T. -0.000 min

Lab File: BN036927.D

Acq: 28 Apr 2025 14:00

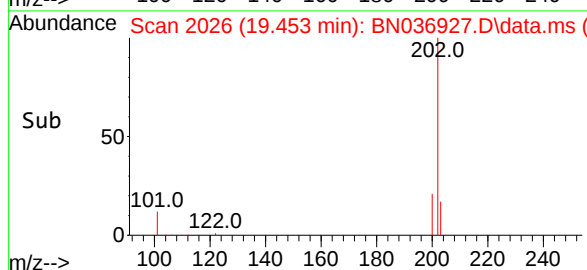
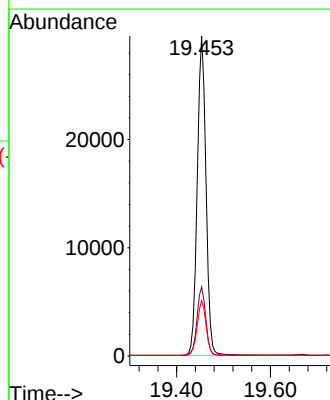
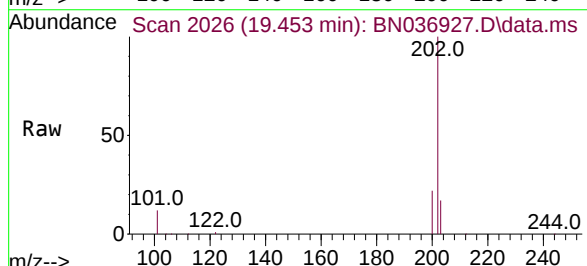
Tgt Ion:202 Resp: 38176

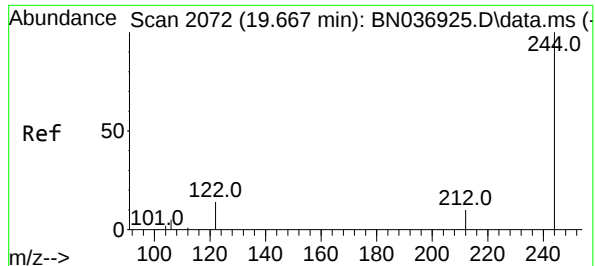
Ion Ratio Lower Upper

202 100

200 21.4 17.0 25.6

203 17.7 14.0 21.0

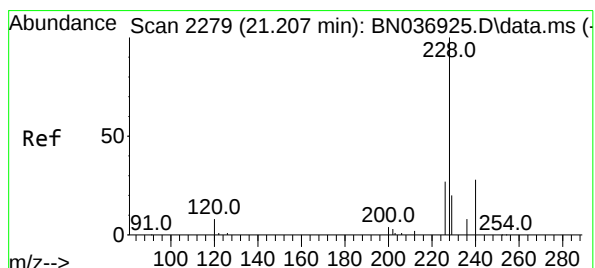
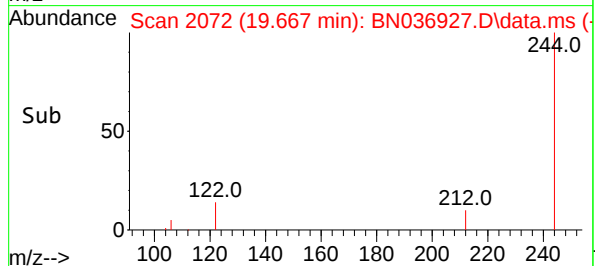
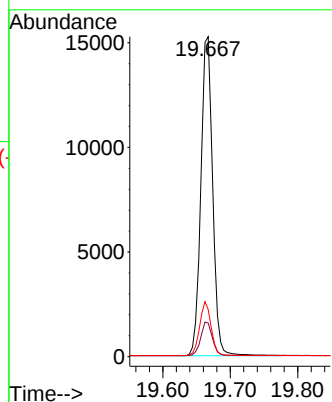
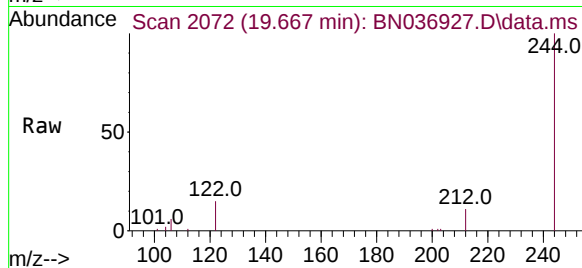




#31  
Terphenyl-d14  
Concen: 1.689 ng  
RT: 19.667 min Scan# 2072  
Delta R.T. -0.000 min  
Lab File: BN036927.D  
Acq: 28 Apr 2025 14:00

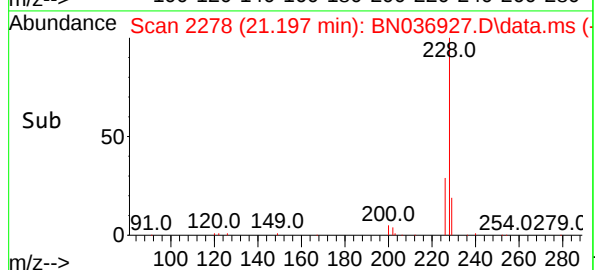
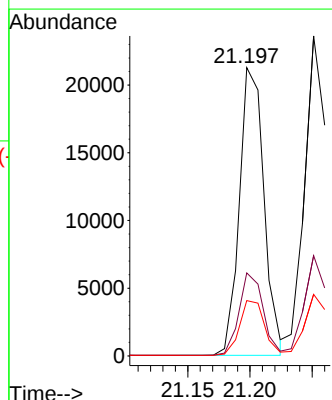
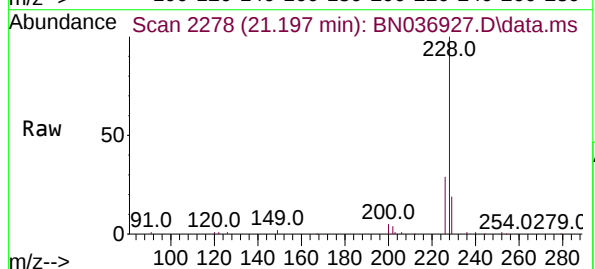
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

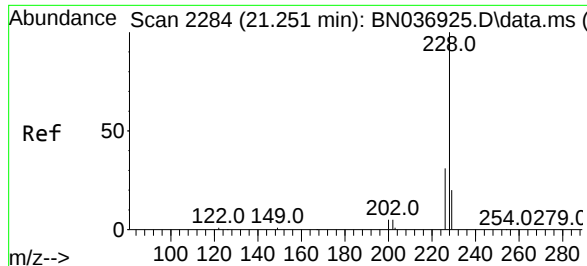
Tgt Ion:244 Resp: 18514  
Ion Ratio Lower Upper  
244 100  
212 10.5 9.6 14.4  
122 14.7 12.7 19.1



#32  
Benzo(a)anthracene  
Concen: 1.737 ng  
RT: 21.197 min Scan# 2278  
Delta R.T. -0.009 min  
Lab File: BN036927.D  
Acq: 28 Apr 2025 14:00

Tgt Ion:228 Resp: 29164  
Ion Ratio Lower Upper  
228 100  
226 28.8 22.2 33.4  
229 19.2 16.4 24.6





#33

Chrysene

Concen: 1.703 ng

RT: 21.251 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036927.D

Acq: 28 Apr 2025 14:00

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6

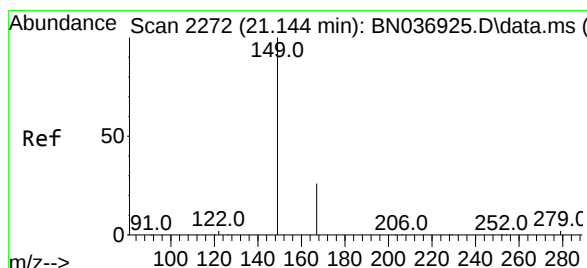
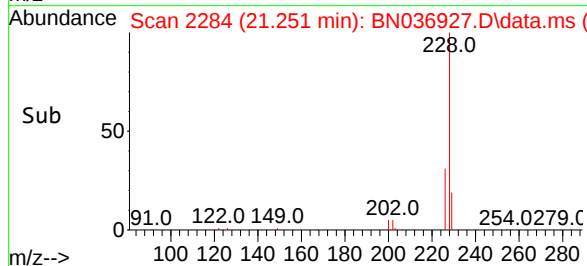
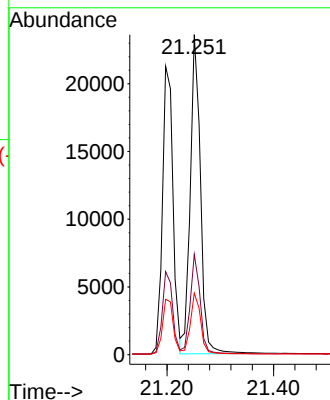
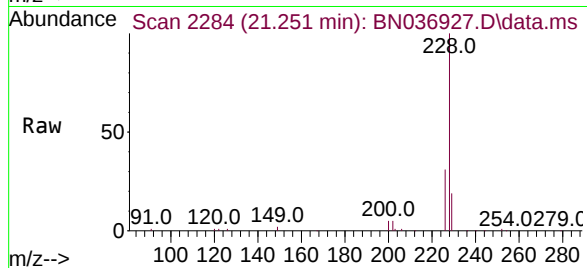
Tgt Ion:228 Resp: 31322

Ion Ratio Lower Upper

228 100

226 31.3 25.5 38.3

229 19.3 16.5 24.7



#34

Bis(2-ethylhexyl)phthalate

Concen: 1.544 ng

RT: 21.144 min Scan# 2272

Delta R.T. -0.000 min

Lab File: BN036927.D

Acq: 28 Apr 2025 14:00

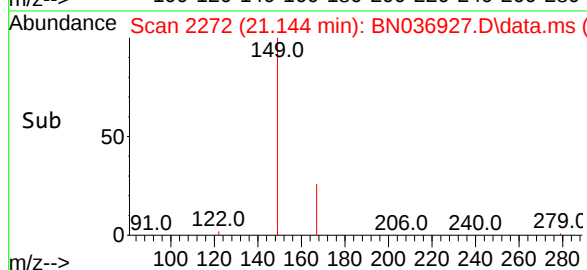
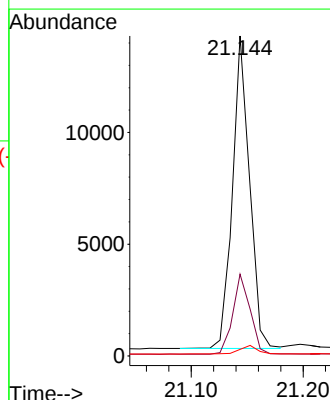
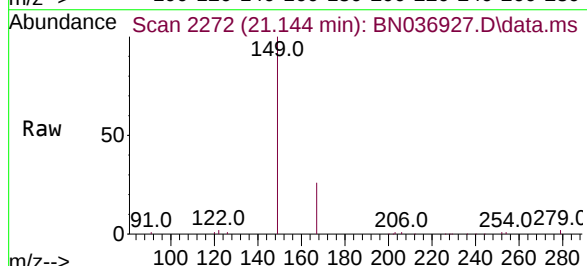
Tgt Ion:149 Resp: 14810

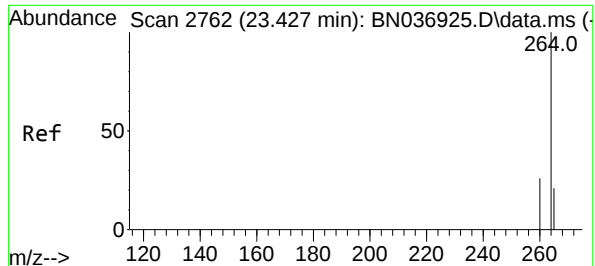
Ion Ratio Lower Upper

149 100

167 25.9 21.0 31.6

279 2.9 2.7 4.1





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.427 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036927.D

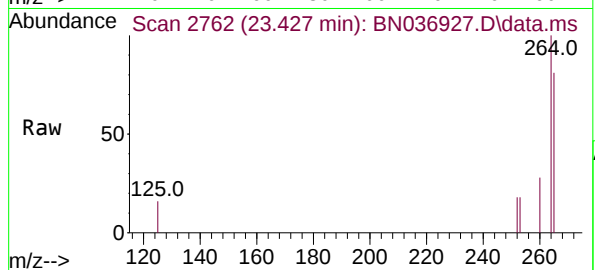
Acq: 28 Apr 2025 14:00

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6



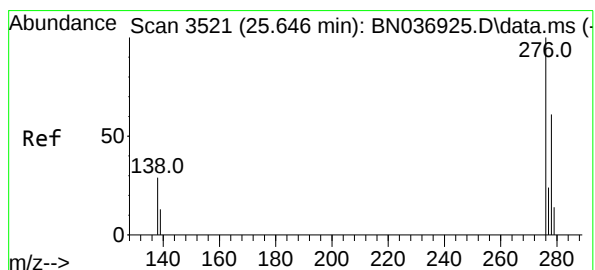
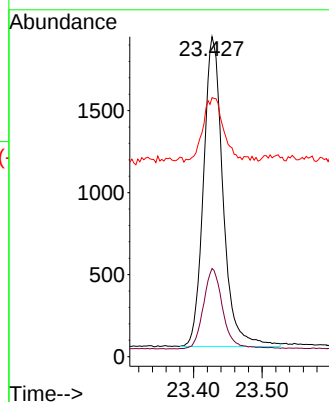
Tgt Ion:264 Resp: 3734

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

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

|     |      |      |      |
|-----|------|------|------|
| 260 | 27.5 | 22.2 | 33.2 |
|-----|------|------|------|

|     |      |      |      |
|-----|------|------|------|
| 265 | 80.9 | 65.8 | 98.6 |
|-----|------|------|------|



#36

Indeno(1,2,3-cd)pyrene

Concen: 1.681 ng

RT: 25.643 min Scan# 3520

Delta R.T. -0.003 min

Lab File: BN036927.D

Acq: 28 Apr 2025 14:00

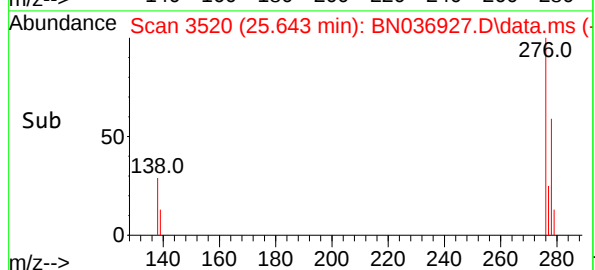
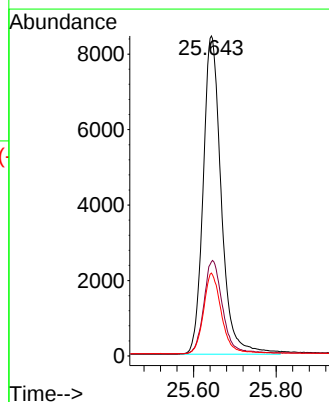
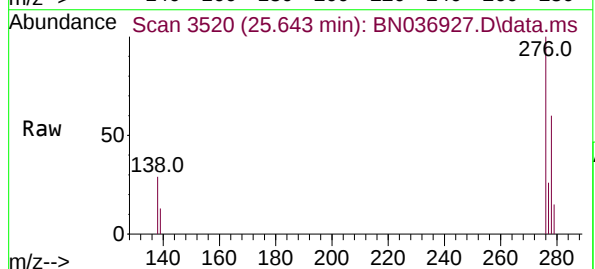
Tgt Ion:276 Resp: 25695

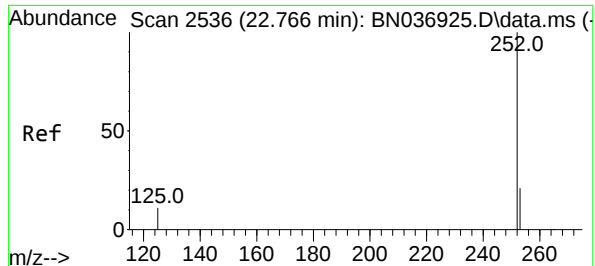
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
|-----|-------|-------|-------|

|     |     |  |  |
|-----|-----|--|--|
| 276 | 100 |  |  |
|-----|-----|--|--|

|     |      |      |      |
|-----|------|------|------|
| 138 | 30.1 | 23.0 | 34.6 |
|-----|------|------|------|

|     |      |      |      |
|-----|------|------|------|
| 277 | 25.0 | 20.0 | 30.0 |
|-----|------|------|------|





#37

Benzo(b)fluoranthene

Concen: 1.733 ng

RT: 22.763 min Scan# 2535

Delta R.T. -0.003 min

Lab File: BN036927.D

Acq: 28 Apr 2025 14:00

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6

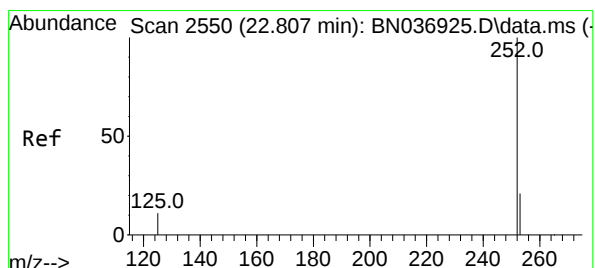
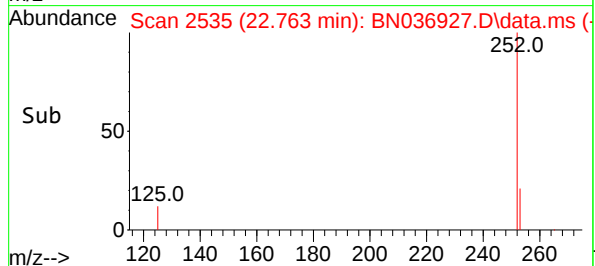
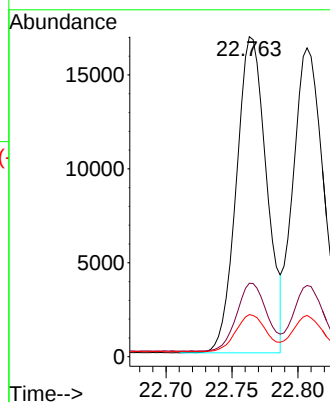
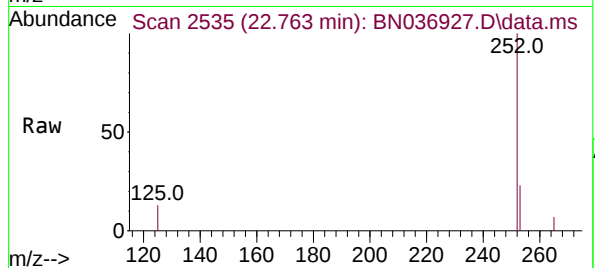
Tgt Ion:252 Resp: 26826

Ion Ratio Lower Upper

252 100

253 23.0 22.1 33.1

125 13.1 14.2 21.2#



#38

Benzo(k)fluoranthene

Concen: 1.730 ng

RT: 22.807 min Scan# 2550

Delta R.T. -0.000 min

Lab File: BN036927.D

Acq: 28 Apr 2025 14:00

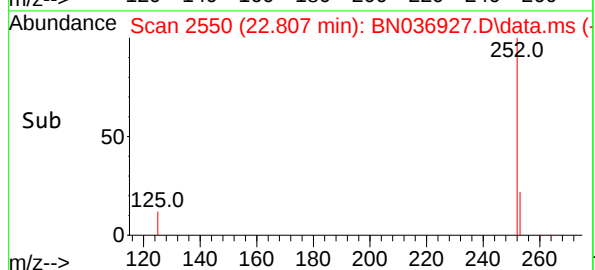
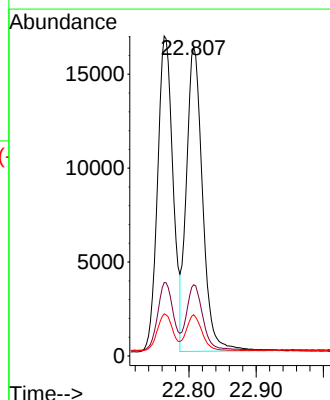
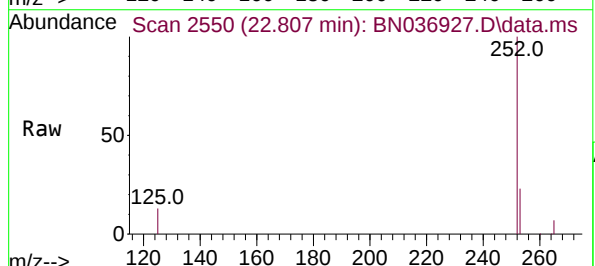
Tgt Ion:252 Resp: 27065

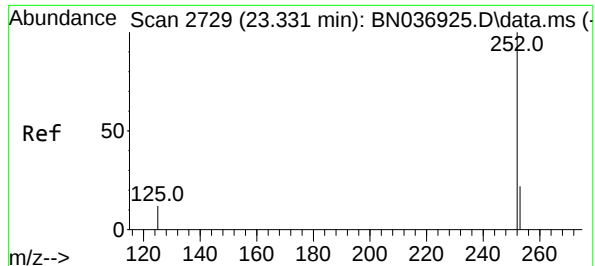
Ion Ratio Lower Upper

252 100

253 23.1 22.8 34.2

125 13.4 14.2 21.2#





#39

Benzo(a)pyrene

Concen: 1.712 ng

RT: 23.330 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036927.D

Acq: 28 Apr 2025 14:00

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6

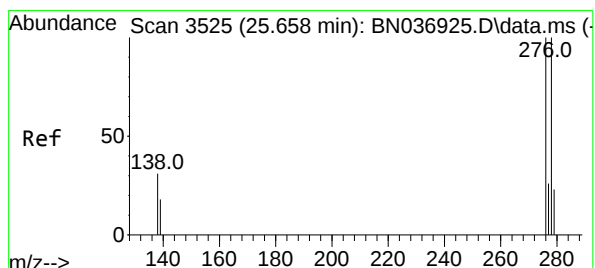
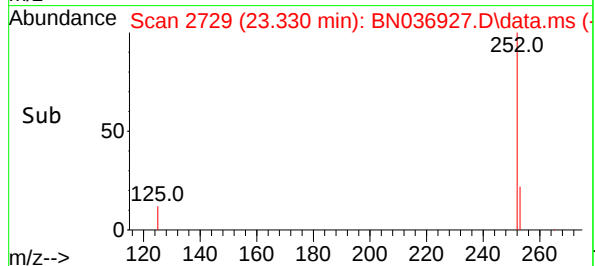
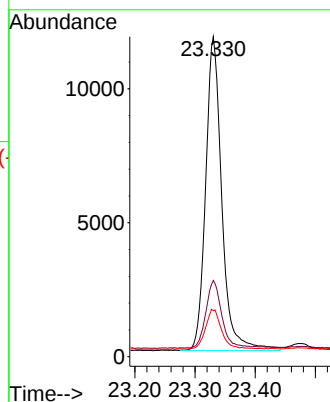
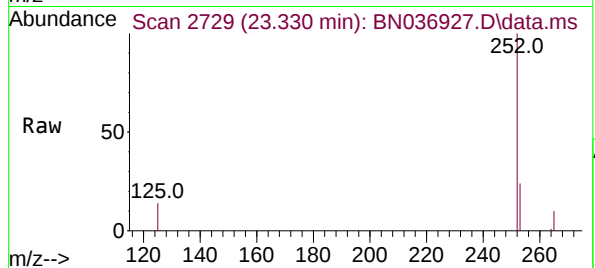
Tgt Ion:252 Resp: 21844

Ion Ratio Lower Upper

252 100

253 23.8 25.9 38.9#

125 14.4 17.4 26.0#



#40

Dibenzo(a,h)anthracene

Concen: 1.685 ng

RT: 25.658 min Scan# 3525

Delta R.T. -0.000 min

Lab File: BN036927.D

Acq: 28 Apr 2025 14:00

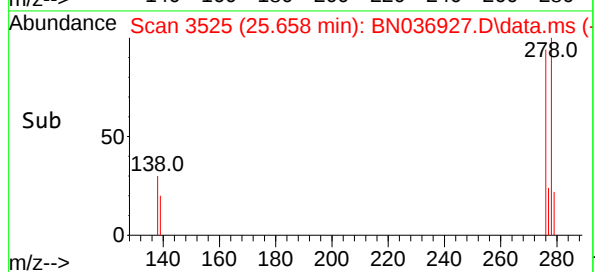
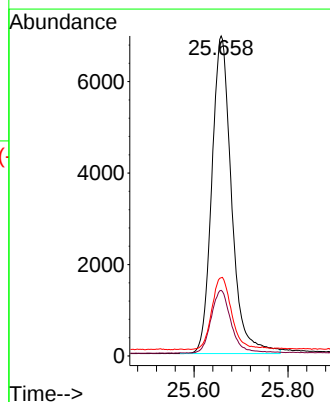
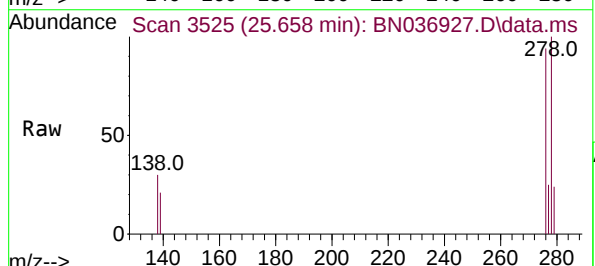
Tgt Ion:278 Resp: 20274

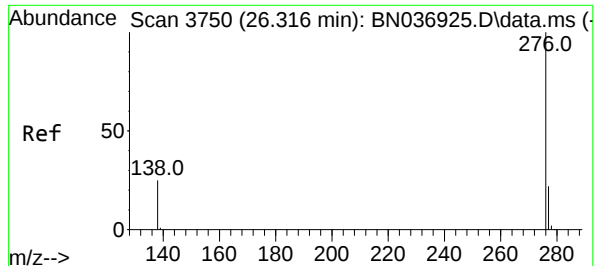
Ion Ratio Lower Upper

278 100

139 20.5 17.4 26.2

279 24.5 24.9 37.3#





#41

Benzo(g,h,i)perylene

Concen: 1.659 ng

RT: 26.324 min Scan# 31

Delta R.T. 0.009 min

Lab File: BN036927.D

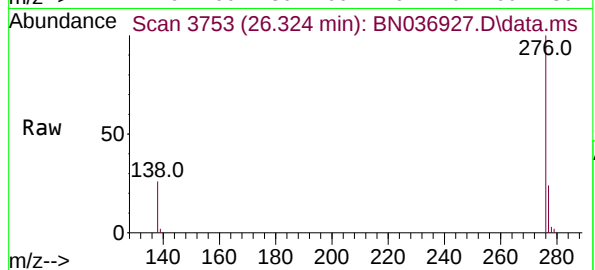
Acq: 28 Apr 2025 14:00

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6



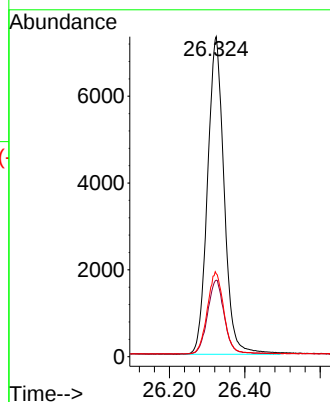
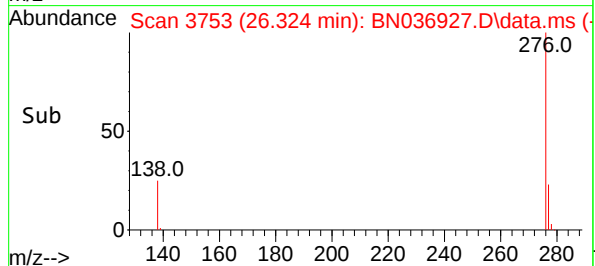
Tgt Ion:276 Resp: 22323

Ion Ratio Lower Upper

276 100

277 23.9 20.2 30.2

138 26.0 21.9 32.9



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN042825\  
 Data File : BN036928.D  
 Acq On : 28 Apr 2025 14:36  
 Operator : RC/JU  
 Sample : SSTDICC3.2  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC3.2

Quant Time: Apr 28 15:14:05 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN042825.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Apr 28 15:11:09 2025  
 Response via : Initial Calibration

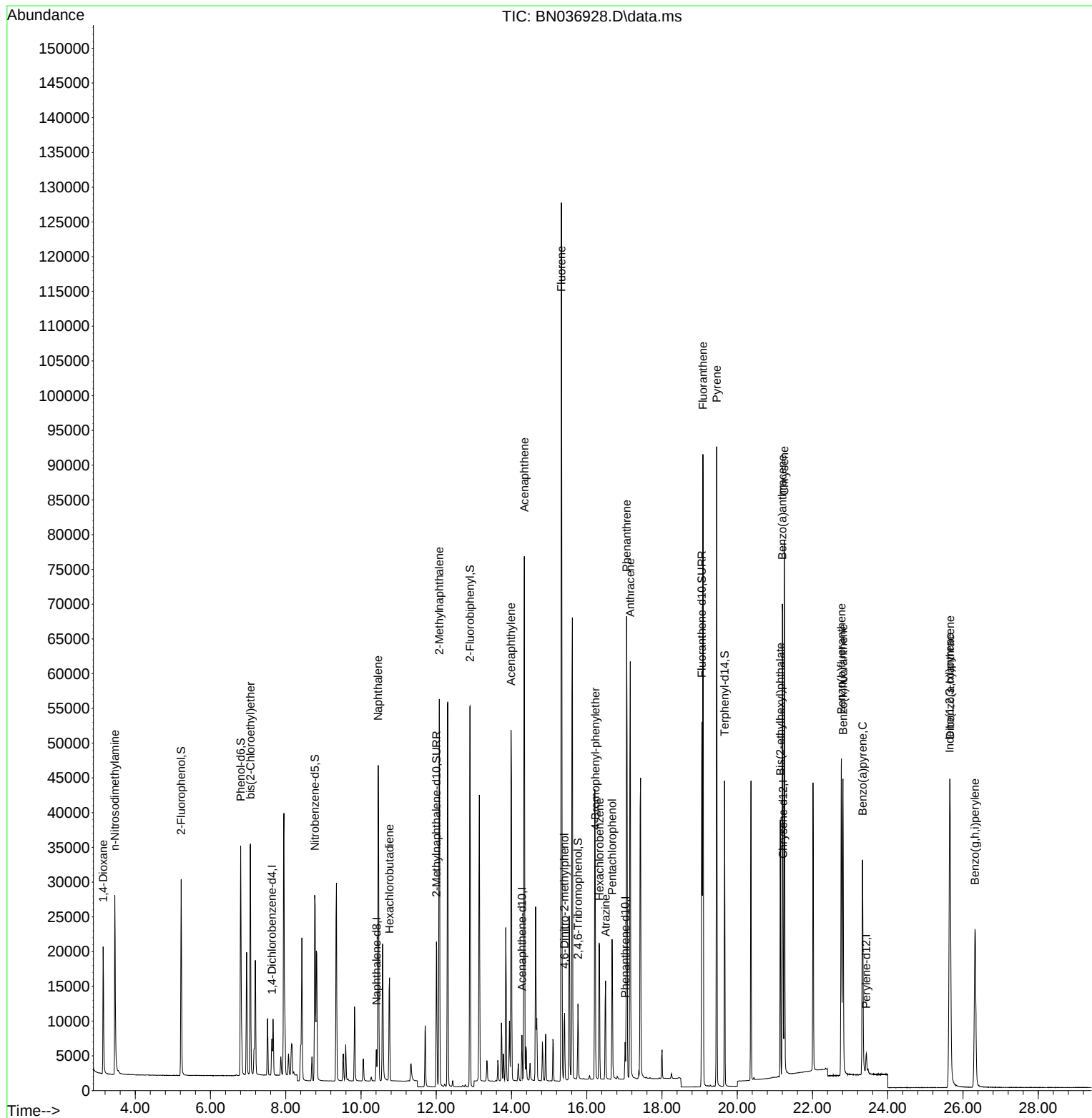
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.633  | 152  | 2400     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.415 | 136  | 5910     | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 14.277 | 164  | 3394     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 17.021 | 188  | 6361     | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 21.216 | 240  | 4896     | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.430 | 264  | 3763     | 0.400 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.221  | 112  | 18856    | 3.045 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.802  | 99   | 24093    | 3.194 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.771  | 82   | 20418    | 3.326 | ng    | -0.01    |
| 11) 2-Methylnaphthalene-d10   | 12.006 | 152  | 27198    | 3.319 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.768 | 330  | 4998     | 3.360 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.899 | 172  | 53914    | 3.285 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 19.059 | 212  | 53576    | 3.290 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.663 | 244  | 37287    | 3.200 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| Target Compounds              |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.148  | 88   | 9383     | 3.096 | ng    | 96       |
| 3) n-Nitrosodimethylamine     | 3.458  | 42   | 18278    | 3.122 | ng    | # 99     |
| 6) bis(2-Chloroethyl)ether    | 7.062  | 93   | 22311    | 3.183 | ng    | 99       |
| 9) Naphthalene                | 10.458 | 128  | 55337    | 3.217 | ng    | 98       |
| 10) Hexachlorobutadiene       | 10.757 | 225  | 11705    | 3.121 | ng    | # 98     |
| 12) 2-Methylnaphthalene       | 12.082 | 142  | 36995    | 3.361 | ng    | 98       |
| 16) Acenaphthylene            | 13.989 | 152  | 55247    | 3.362 | ng    | 100      |
| 17) Acenaphthene              | 14.342 | 154  | 35171    | 3.236 | ng    | 98       |
| 18) Fluorene                  | 15.325 | 166  | 46714    | 3.301 | ng    | 99       |
| 20) 4,6-Dinitro-2-methylph... | 15.411 | 198  | 6093     | 3.823 | ng    | # 51     |
| 21) 4-Bromophenyl-phenylether | 16.227 | 248  | 13834    | 3.266 | ng    | # 94     |
| 22) Hexachlorobenzene         | 16.338 | 284  | 14891    | 3.181 | ng    | 99       |
| 23) Atrazine                  | 16.500 | 200  | 11521    | 3.449 | ng    | # 91     |
| 24) Pentachlorophenol         | 16.674 | 266  | 8528     | 3.511 | ng    | 99       |
| 25) Phenanthrene              | 17.058 | 178  | 68482    | 3.273 | ng    | 99       |
| 26) Anthracene                | 17.158 | 178  | 64181    | 3.430 | ng    | 100      |
| 28) Fluoranthene              | 19.087 | 202  | 77836    | 3.358 | ng    | 99       |
| 30) Pyrene                    | 19.454 | 202  | 77117    | 3.241 | ng    | 100      |
| 32) Benzo(a)anthracene        | 21.198 | 228  | 59092    | 3.310 | ng    | 97       |
| 33) Chrysene                  | 21.251 | 228  | 61582    | 3.149 | ng    | 98       |
| 34) Bis(2-ethylhexyl)phtha... | 21.144 | 149  | 30625    | 3.002 | ng    | # 99     |
| 36) Indeno(1,2,3-cd)pyrene    | 25.643 | 276  | 51906    | 3.369 | ng    | 98       |
| 37) Benzo(b)fluoranthene      | 22.766 | 252  | 52921    | 3.393 | ng    | # 89     |
| 38) Benzo(k)fluoranthene      | 22.810 | 252  | 53706    | 3.406 | ng    | # 88     |
| 39) Benzo(a)pyrene            | 23.331 | 252  | 43554    | 3.387 | ng    | # 83     |
| 40) Dibenzo(a,h)anthracene    | 25.655 | 278  | 41500    | 3.423 | ng    | # 91     |
| 41) Benzo(g,h,i)perylene      | 26.319 | 276  | 44250    | 3.263 | ng    | 98       |
| -----                         |        |      |          |       |       |          |

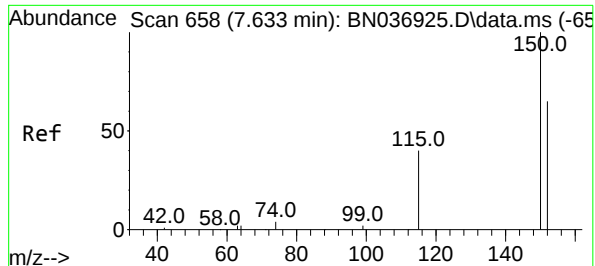
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN042825\  
Data File : BN036928.D  
Acq On : 28 Apr 2025 14:36  
Operator : RC/JU  
Sample : SSTDICC3.2  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

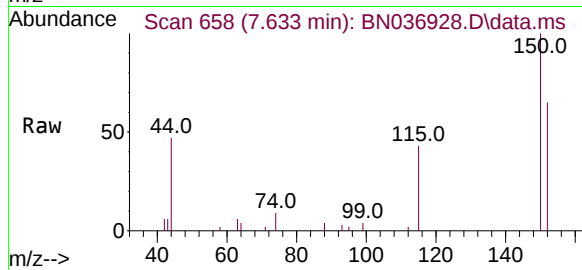
Quant Time: Apr 28 15:14:05 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN042825.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Apr 28 15:11:09 2025  
Response via : Initial Calibration



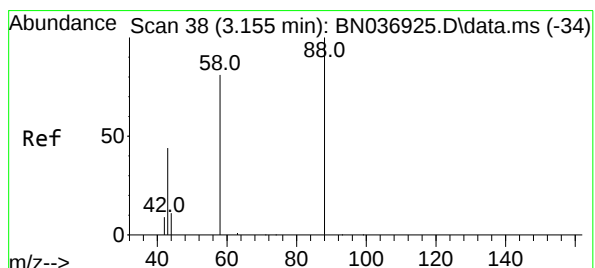
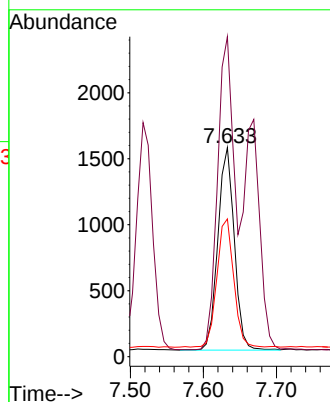
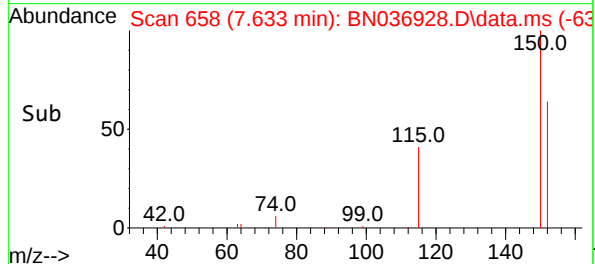


#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.633 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: BN036928.D  
Acq: 28 Apr 2025 14:36

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

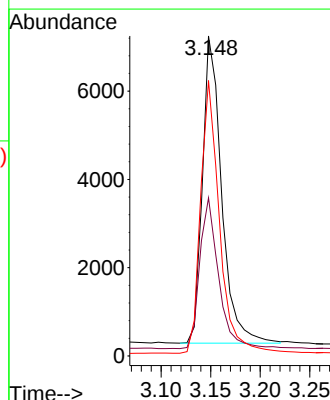
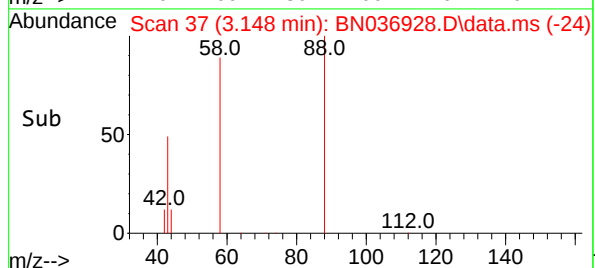
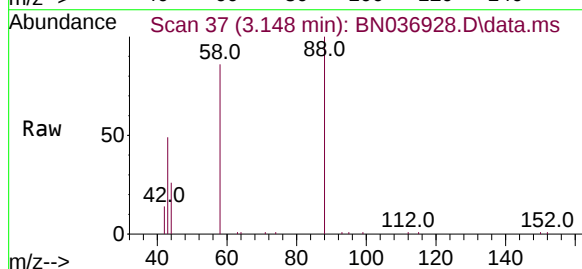


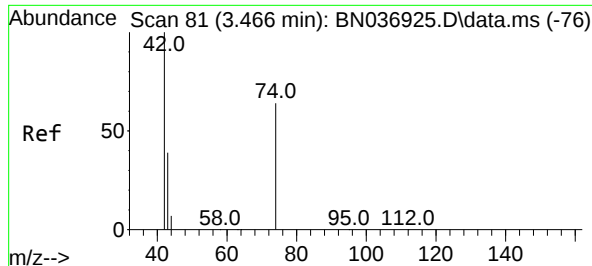
Tgt Ion:152 Resp: 2400  
Ion Ratio Lower Upper  
152 100  
150 153.0 121.1 181.7  
115 65.9 51.8 77.6



#2  
1,4-Dioxane  
Concen: 3.096 ng  
RT: 3.148 min Scan# 37  
Delta R.T. -0.007 min  
Lab File: BN036928.D  
Acq: 28 Apr 2025 14:36

Tgt Ion: 88 Resp: 9383  
Ion Ratio Lower Upper  
88 100  
43 48.3 37.9 56.9  
58 87.1 65.8 98.6

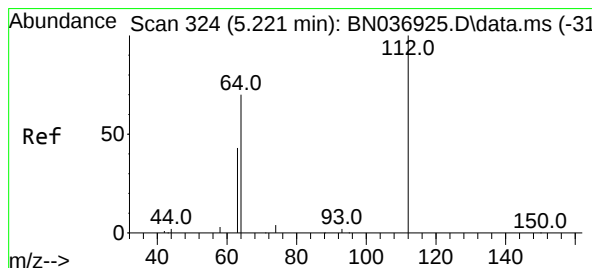
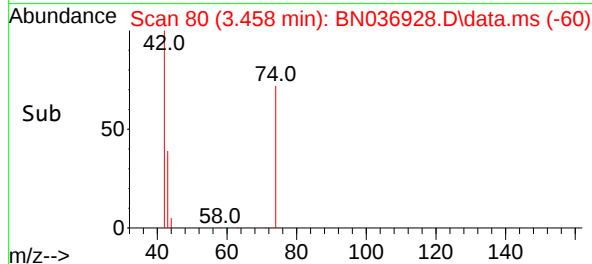
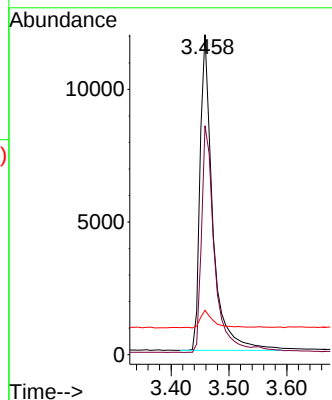
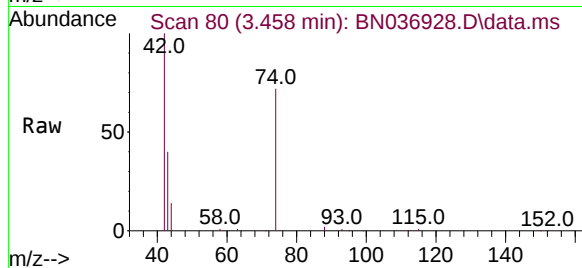




#3  
n-Nitrosodimethylamine  
Concen: 3.122 ng  
RT: 3.458 min Scan# 80  
Delta R.T. -0.007 min  
Lab File: BN036928.D  
Acq: 28 Apr 2025 14:36

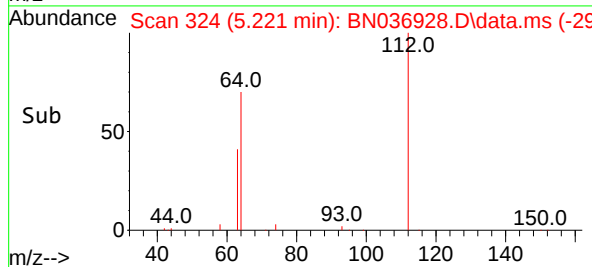
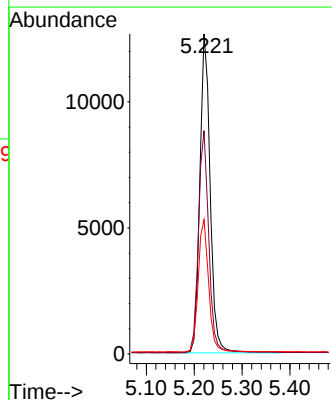
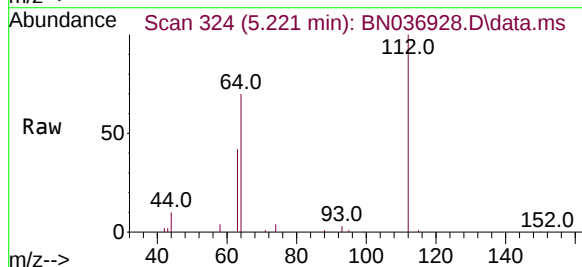
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

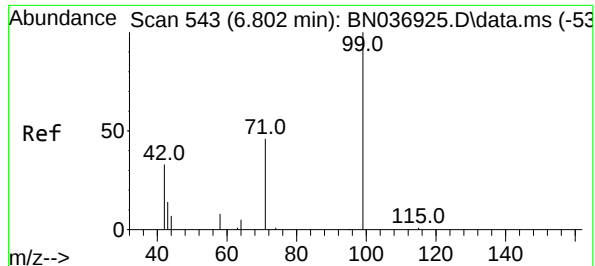
Tgt Ion: 42 Resp: 18278  
Ion Ratio Lower Upper  
42 100  
74 74.8 59.9 89.9  
44 5.4 7.5 11.3#



#4  
2-Fluorophenol  
Concen: 3.045 ng  
RT: 5.221 min Scan# 324  
Delta R.T. 0.000 min  
Lab File: BN036928.D  
Acq: 28 Apr 2025 14:36

Tgt Ion: 112 Resp: 18856  
Ion Ratio Lower Upper  
112 100  
64 69.6 55.7 83.5  
63 42.0 33.9 50.9





#5

Phenol-d6

Concen: 3.194 ng

RT: 6.802 min Scan# 543

Delta R.T. 0.000 min

Lab File: BN036928.D

Acq: 28 Apr 2025 14:36

Instrument :

BNA\_N

ClientSampleId :

SSTDICC3.2

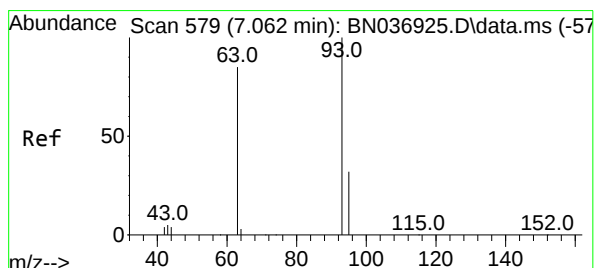
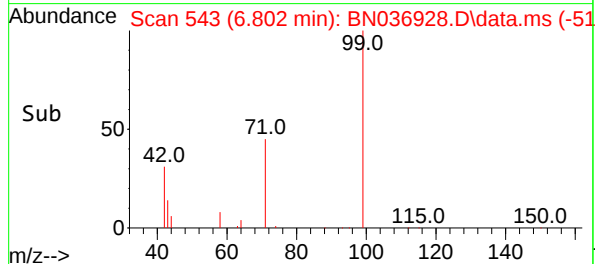
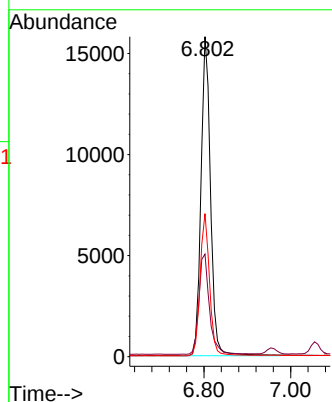
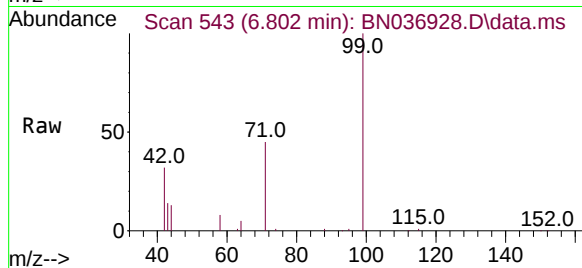
Tgt Ion: 99 Resp: 24093

Ion Ratio Lower Upper

99 100

42 35.0 29.6 44.4

71 44.3 36.0 54.0



#6

bis(2-Chloroethyl)ether

Concen: 3.183 ng

RT: 7.062 min Scan# 579

Delta R.T. 0.000 min

Lab File: BN036928.D

Acq: 28 Apr 2025 14:36

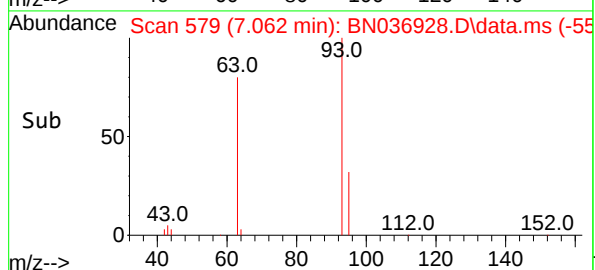
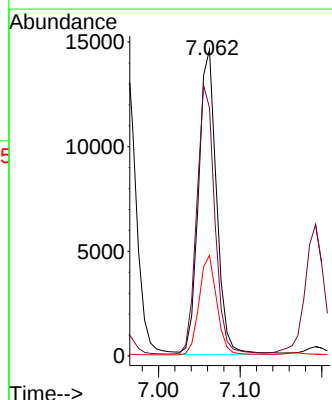
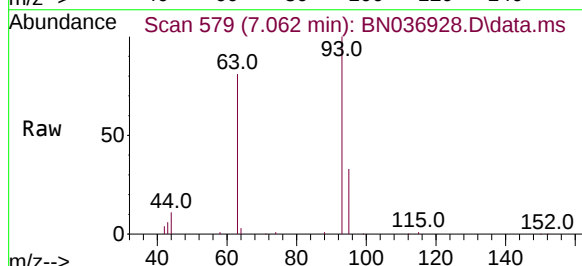
Tgt Ion: 93 Resp: 22311

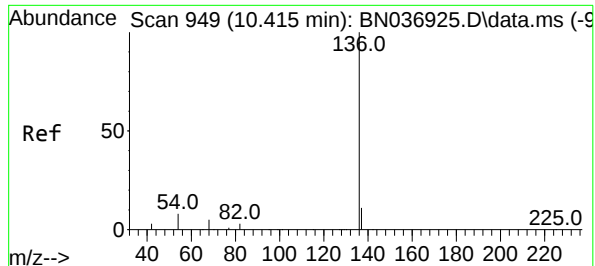
Ion Ratio Lower Upper

93 100

63 87.8 69.0 103.6

95 32.2 25.4 38.0

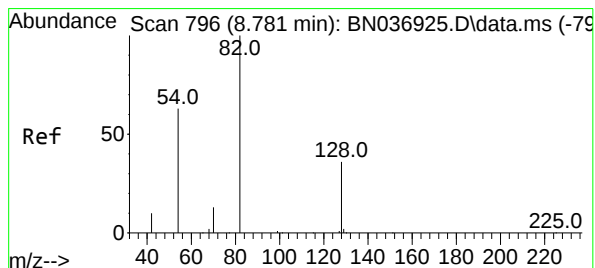
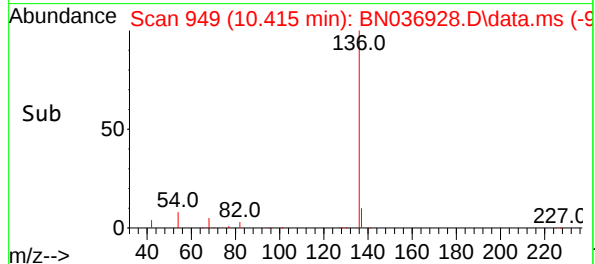
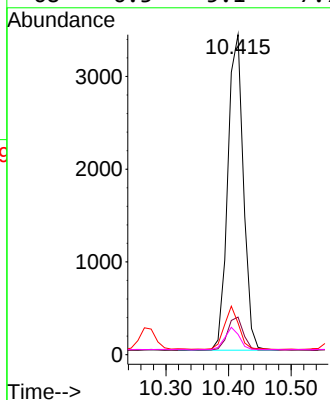
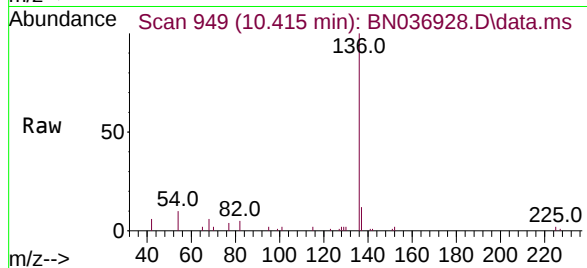




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.415 min Scan# 949  
Delta R.T. 0.000 min  
Lab File: BN036928.D  
Acq: 28 Apr 2025 14:36

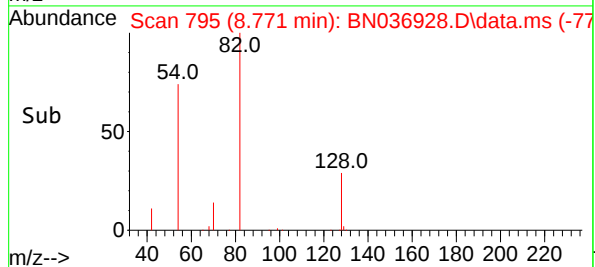
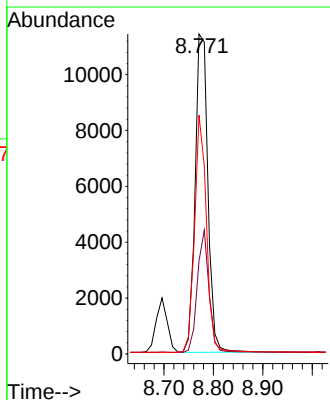
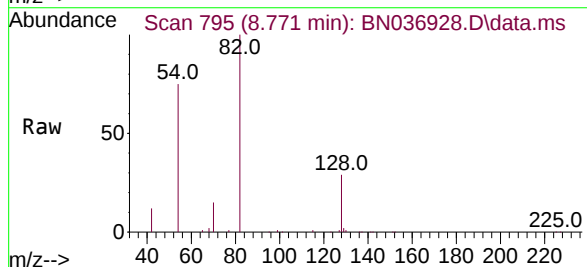
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

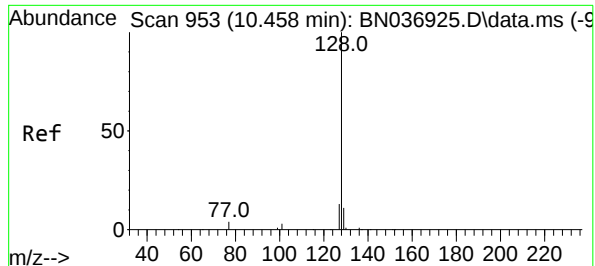
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 5910  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 11.7  | 9.7   | 14.5  |
| 54       | 9.9   | 8.0   | 12.0  |
| 68       | 6.3   | 5.1   | 7.7   |



#8  
Nitrobenzene-d5  
Concen: 3.326 ng  
RT: 8.771 min Scan# 795  
Delta R.T. -0.011 min  
Lab File: BN036928.D  
Acq: 28 Apr 2025 14:36

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 20418 |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 29.1  | 30.7  | 46.1# |
| 54       | 74.6  | 52.1  | 78.1  |

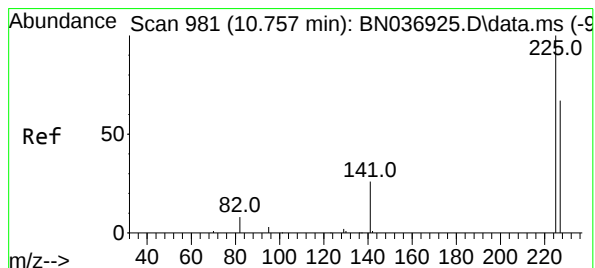
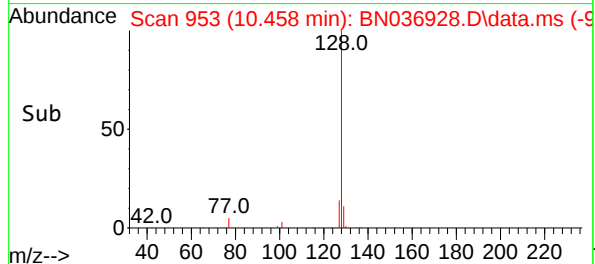
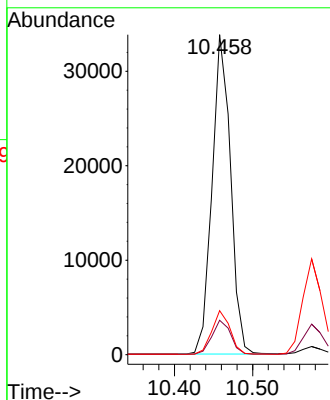
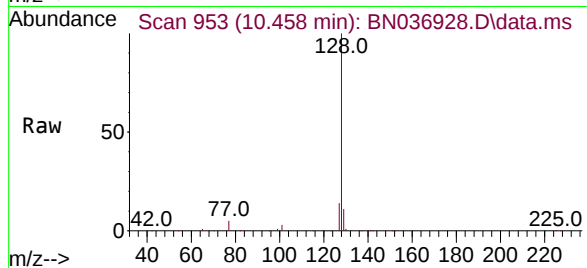




#9  
Naphthalene  
Concen: 3.217 ng  
RT: 10.458 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: BN036928.D  
Acq: 28 Apr 2025 14:36

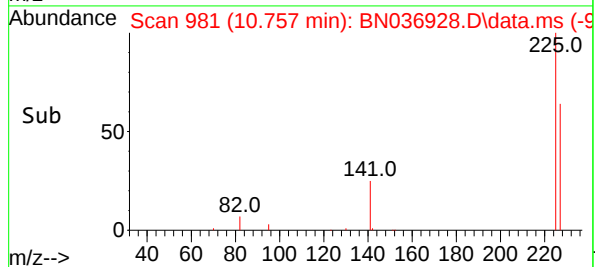
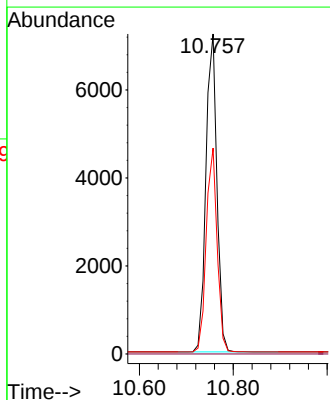
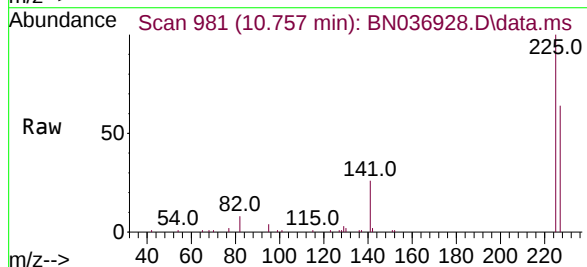
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

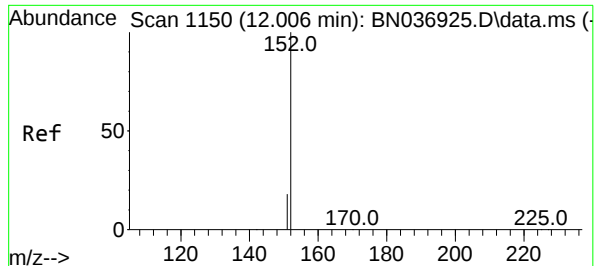
Tgt Ion:128 Resp: 55337  
Ion Ratio Lower Upper  
128 100  
129 10.8 9.8 14.6  
127 13.8 11.4 17.2



#10  
Hexachlorobutadiene  
Concen: 3.121 ng  
RT: 10.757 min Scan# 981  
Delta R.T. 0.000 min  
Lab File: BN036928.D  
Acq: 28 Apr 2025 14:36

Tgt Ion:225 Resp: 11705  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 63.5 52.2 78.4

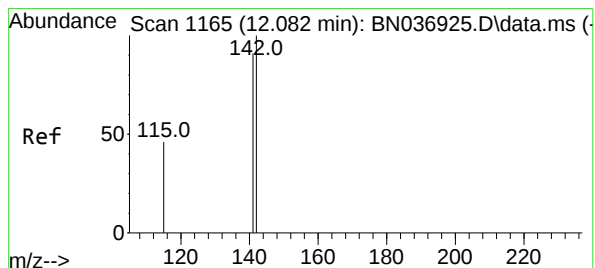
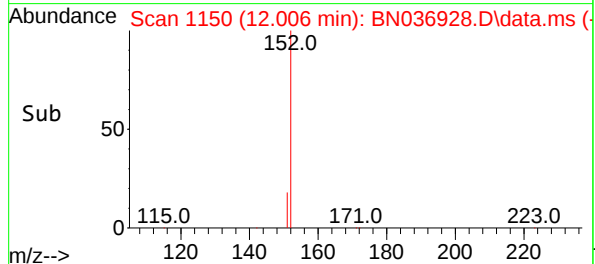
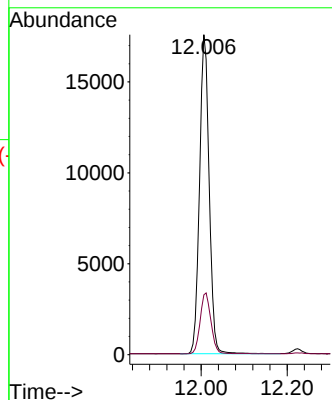
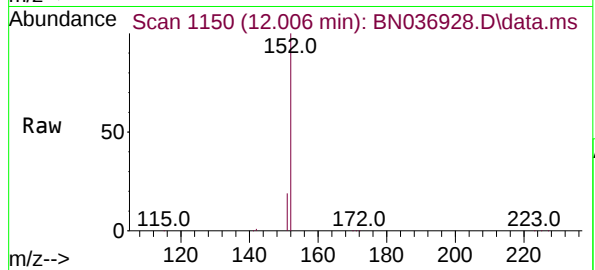




#11  
2-Methylnaphthalene-d10  
Concen: 3.319 ng  
RT: 12.006 min Scan# 1150  
Delta R.T. 0.000 min  
Lab File: BN036928.D  
Acq: 28 Apr 2025 14:36

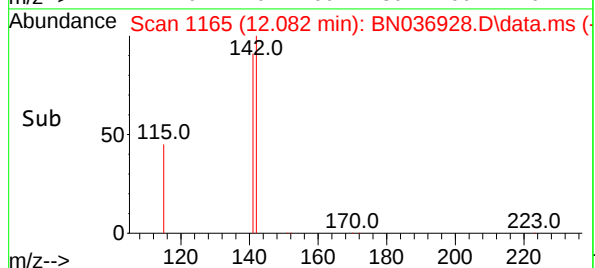
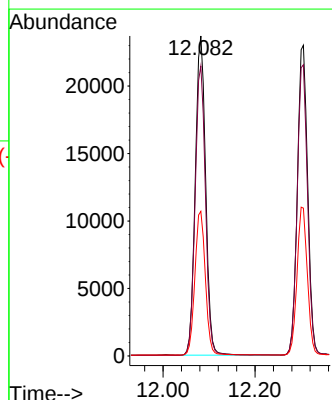
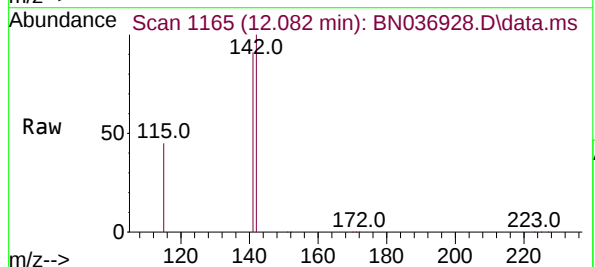
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

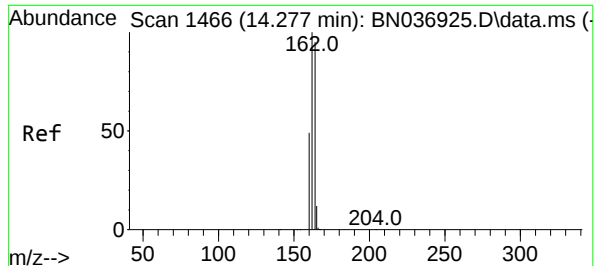
Tgt Ion:152 Resp: 27198  
Ion Ratio Lower Upper  
152 100  
151 21.3 16.9 25.3



#12  
2-Methylnaphthalene  
Concen: 3.361 ng  
RT: 12.082 min Scan# 1165  
Delta R.T. 0.000 min  
Lab File: BN036928.D  
Acq: 28 Apr 2025 14:36

Tgt Ion:142 Resp: 36995  
Ion Ratio Lower Upper  
142 100  
141 90.6 72.8 109.2  
115 45.2 38.2 57.4

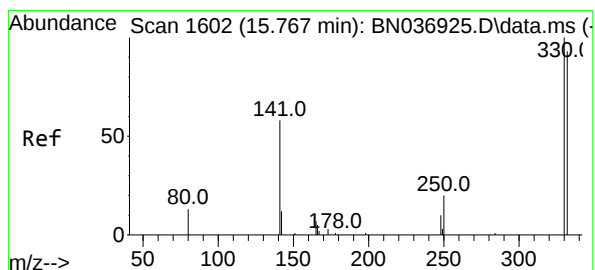
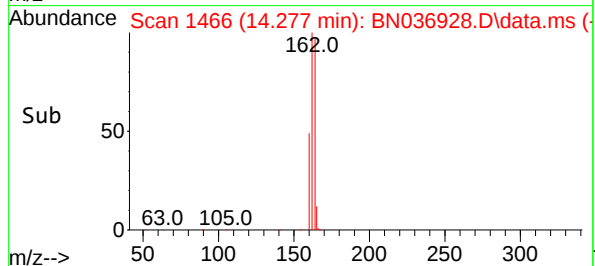
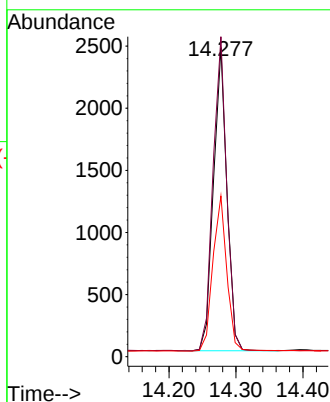
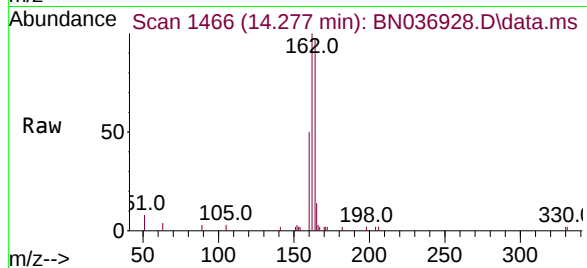




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.277 min Scan# 1466  
Delta R.T. 0.000 min  
Lab File: BN036928.D  
Acq: 28 Apr 2025 14:36

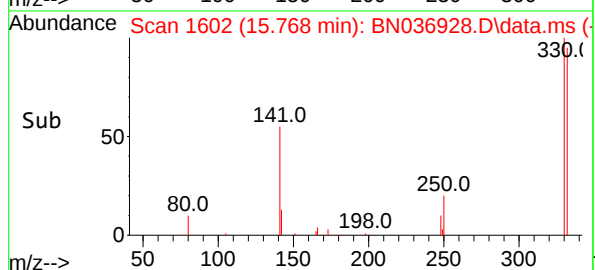
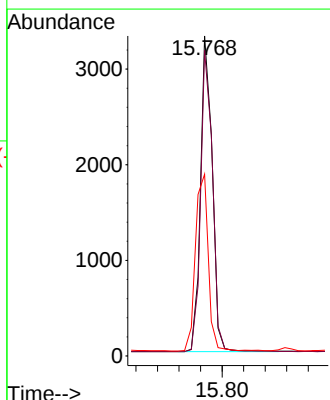
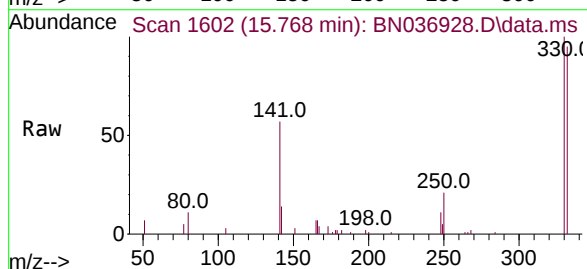
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

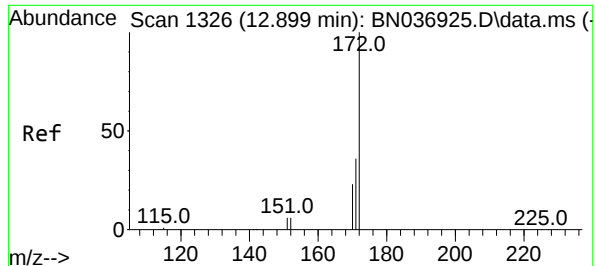
| Tgt Ion   | 164  | 162   | 160  |
|-----------|------|-------|------|
| Resp:     | 3394 |       |      |
| Ion Ratio | 100  | 103.5 | 51.9 |
| Lower     |      | 83.8  | 42.0 |
| Upper     |      | 125.8 | 63.0 |



#14  
2,4,6-Tribromophenol  
Concen: 3.360 ng  
RT: 15.768 min Scan# 1602  
Delta R.T. 0.000 min  
Lab File: BN036928.D  
Acq: 28 Apr 2025 14:36

| Tgt Ion   | 330  | 332   | 141  |
|-----------|------|-------|------|
| Resp:     | 4998 |       |      |
| Ion Ratio | 100  | 96.6  | 61.6 |
| Lower     |      | 76.3  | 45.4 |
| Upper     |      | 114.5 | 68.2 |

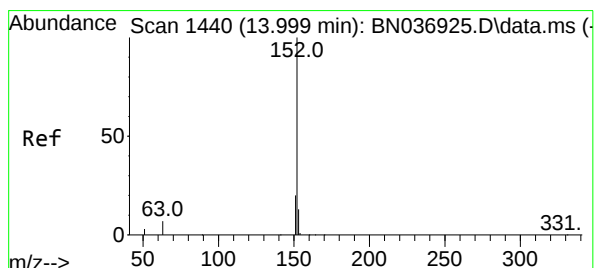
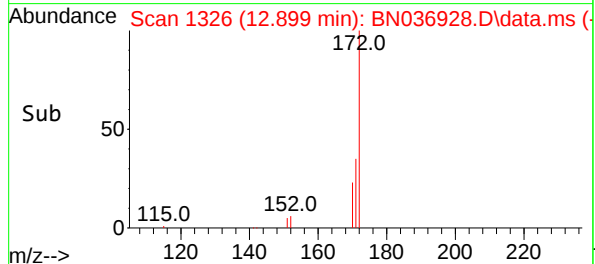
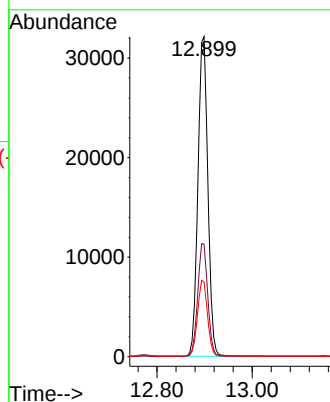
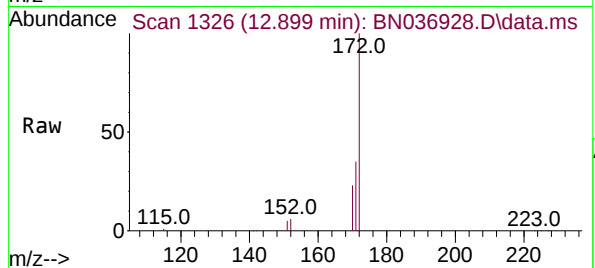




#15  
2-Fluorobiphenyl  
Concen: 3.285 ng  
RT: 12.899 min Scan# 1439  
Delta R.T. 0.000 min  
Lab File: BN036928.D  
Acq: 28 Apr 2025 14:36

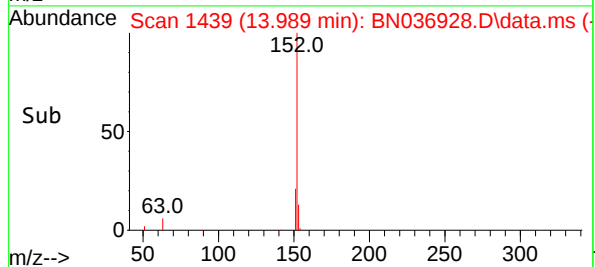
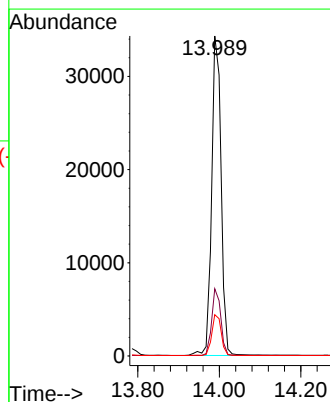
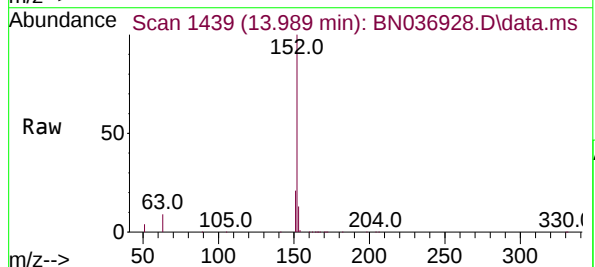
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

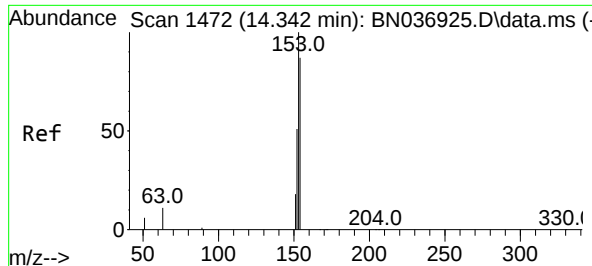
Tgt Ion:172 Resp: 53914  
Ion Ratio Lower Upper  
172 100  
171 35.2 29.4 44.0  
170 23.4 19.4 29.0



#16  
Acenaphthylene  
Concen: 3.362 ng  
RT: 13.989 min Scan# 1439  
Delta R.T. -0.011 min  
Lab File: BN036928.D  
Acq: 28 Apr 2025 14:36

Tgt Ion:152 Resp: 55247  
Ion Ratio Lower Upper  
152 100  
151 20.1 16.0 24.0  
153 12.8 10.2 15.2

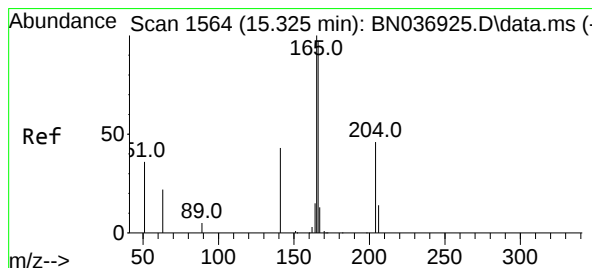
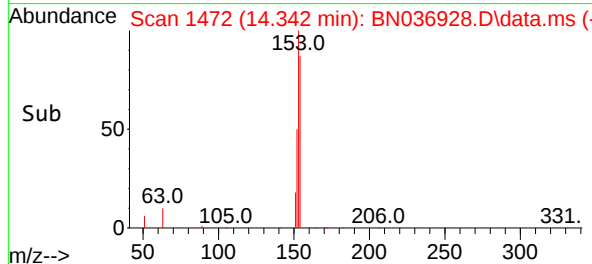
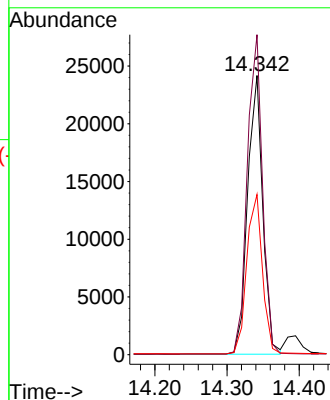
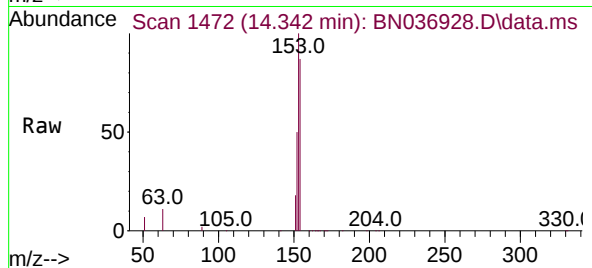




#17  
Acenaphthene  
Concen: 3.236 ng  
RT: 14.342 min Scan# 1472  
Delta R.T. 0.000 min  
Lab File: BN036928.D  
Acq: 28 Apr 2025 14:36

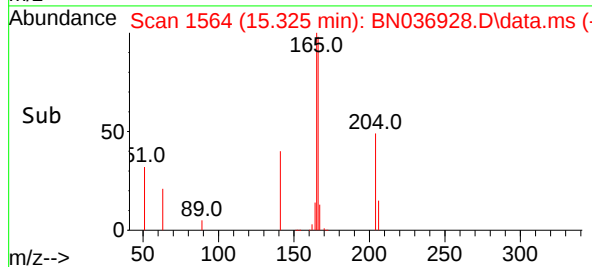
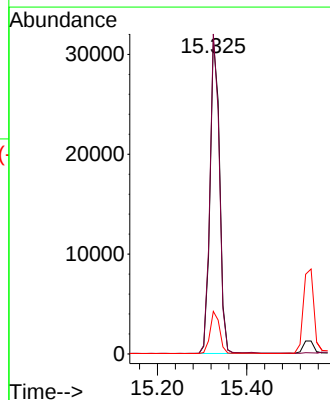
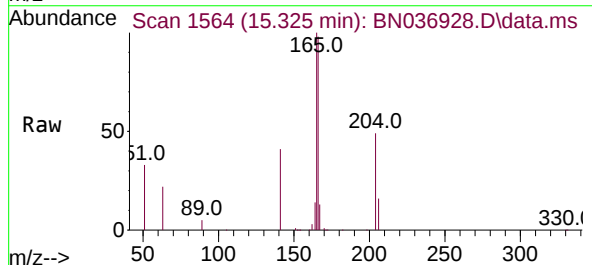
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

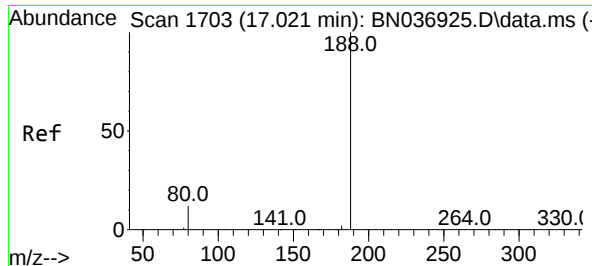
Tgt Ion:154 Resp: 35171  
Ion Ratio Lower Upper  
154 100  
153 115.7 93.4 140.2  
152 59.7 49.5 74.3



#18  
Fluorene  
Concen: 3.301 ng  
RT: 15.325 min Scan# 1564  
Delta R.T. 0.000 min  
Lab File: BN036928.D  
Acq: 28 Apr 2025 14:36

Tgt Ion:166 Resp: 46714  
Ion Ratio Lower Upper  
166 100  
165 99.7 80.8 121.2  
167 13.3 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.021 min Scan# 11

Delta R.T. 0.000 min

Lab File: BN036928.D

Acq: 28 Apr 2025 14:36

Instrument :

BNA\_N

ClientSampleId :

SSTDICC3.2

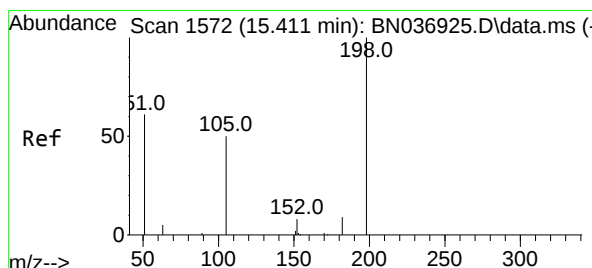
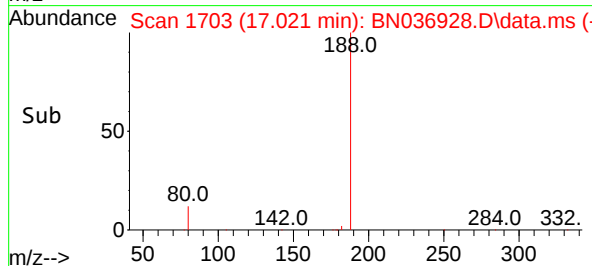
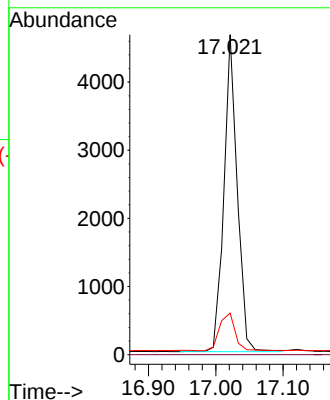
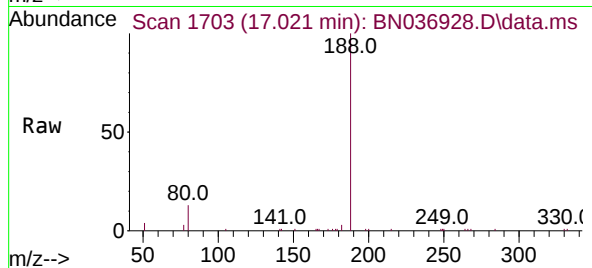
Tgt Ion:188 Resp: 6361

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 13.0 10.7 16.1



#20

4,6-Dinitro-2-methylphenol

Concen: 3.823 ng

RT: 15.411 min Scan# 1572

Delta R.T. -0.000 min

Lab File: BN036928.D

Acq: 28 Apr 2025 14:36

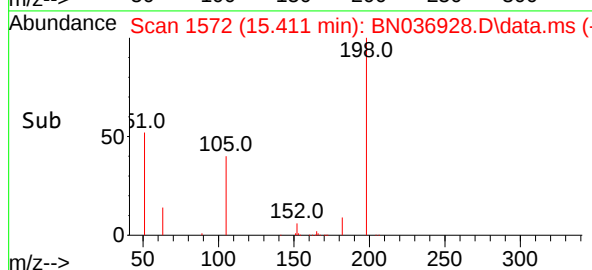
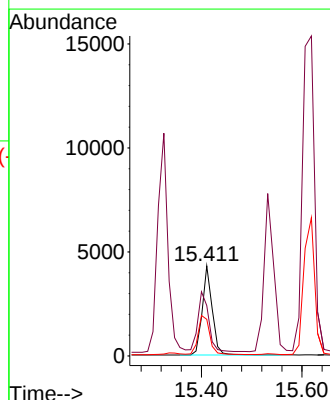
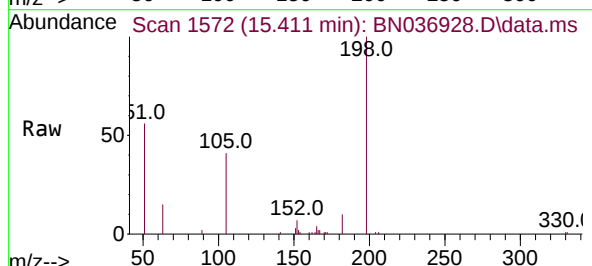
Tgt Ion:198 Resp: 6093

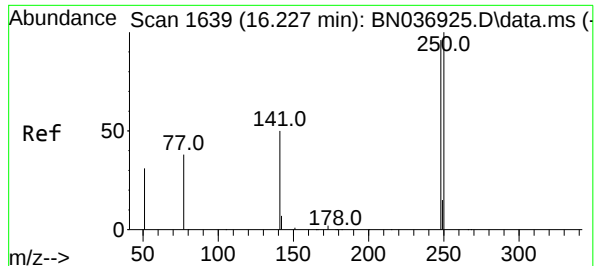
Ion Ratio Lower Upper

198 100

51 56.0 97.9 146.9#

105 40.7 50.0 75.0#

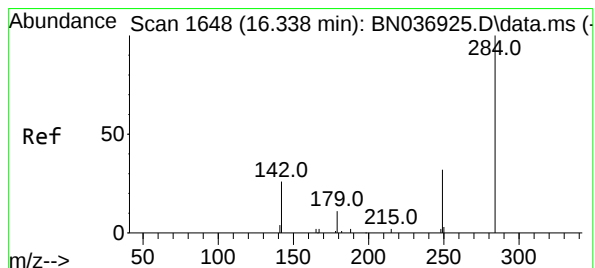
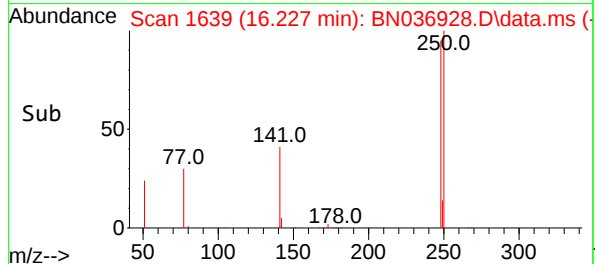
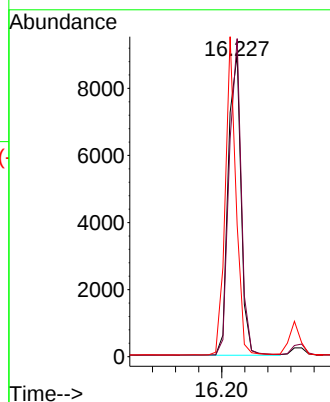
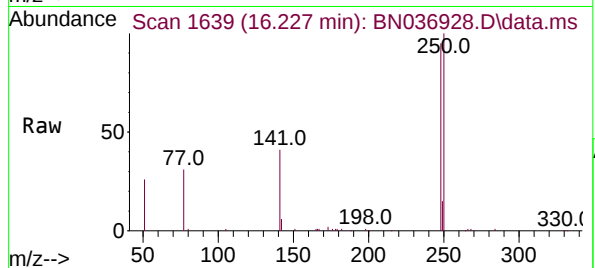




#21  
4-Bromophenyl-phenylether  
Concen: 3.266 ng  
RT: 16.227 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: BN036928.D  
Acq: 28 Apr 2025 14:36

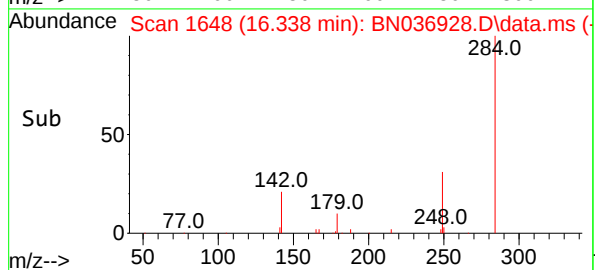
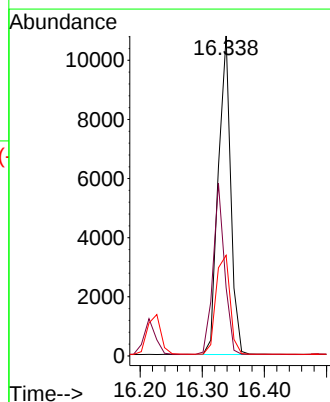
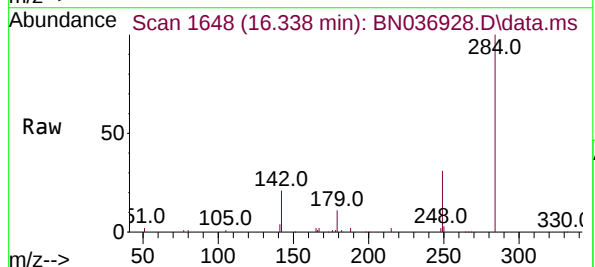
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

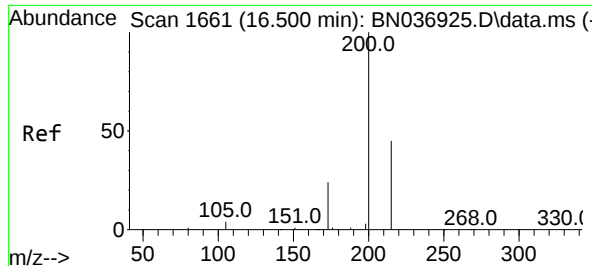
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 248     | 100   |       |       |
| 250     | 105.4 | 83.7  | 125.5 |
| 141     | 43.6  | 43.8  | 65.8  |



#22  
Hexachlorobenzene  
Concen: 3.181 ng  
RT: 16.338 min Scan# 1648  
Delta R.T. 0.000 min  
Lab File: BN036928.D  
Acq: 28 Apr 2025 14:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 284     | 100   |       |       |
| 142     | 50.5  | 40.0  | 60.0  |
| 249     | 35.8  | 28.2  | 42.2  |

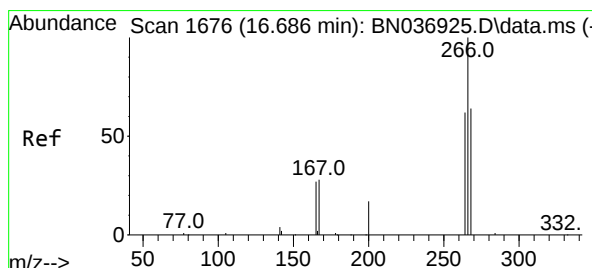
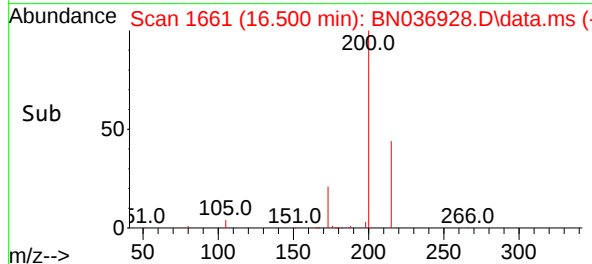
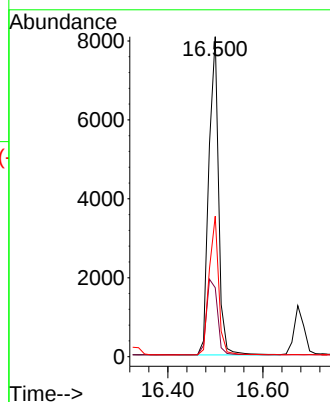
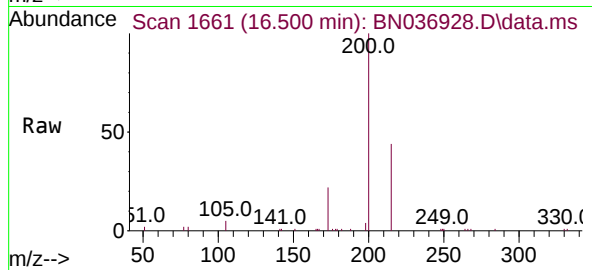




#23  
Atrazine  
Concen: 3.449 ng  
RT: 16.500 min Scan# 1661  
Delta R.T. 0.000 min  
Lab File: BN036928.D  
Acq: 28 Apr 2025 14:36

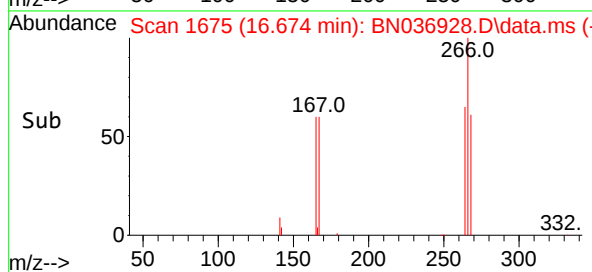
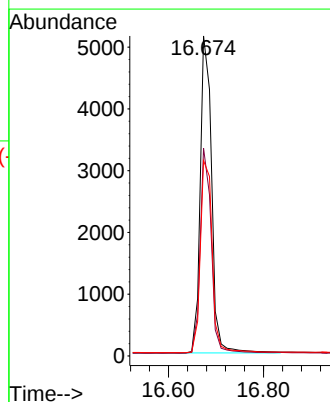
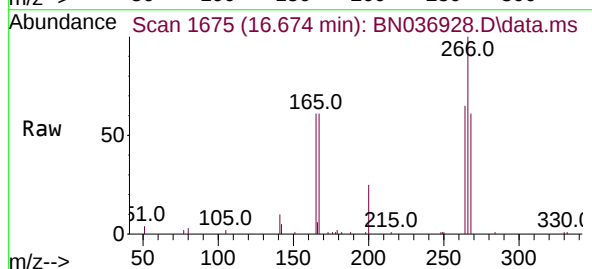
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

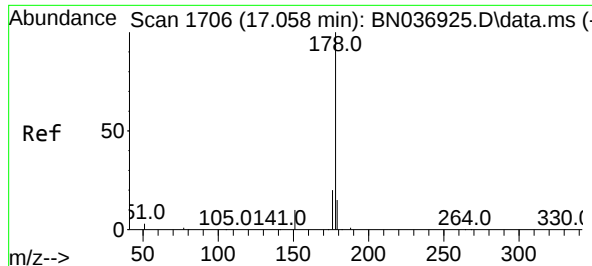
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 200     | 100   |       |       |
| 173     | 21.6  | 22.4  | 33.6# |
| 215     | 43.9  | 38.6  | 57.8  |



#24  
Pentachlorophenol  
Concen: 3.511 ng  
RT: 16.674 min Scan# 1675  
Delta R.T. -0.012 min  
Lab File: BN036928.D  
Acq: 28 Apr 2025 14:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 266     | 100   |       |       |
| 264     | 62.8  | 49.9  | 74.9  |
| 268     | 63.7  | 52.2  | 78.4  |

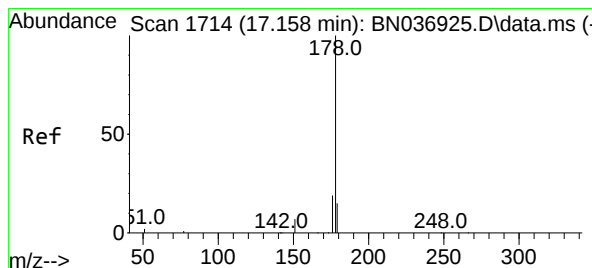
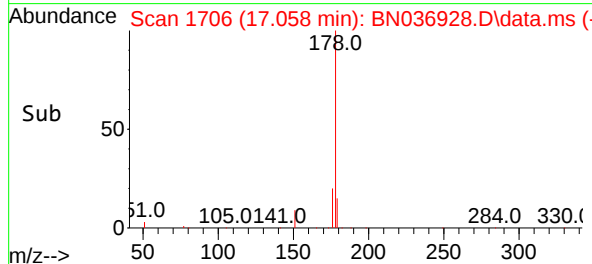
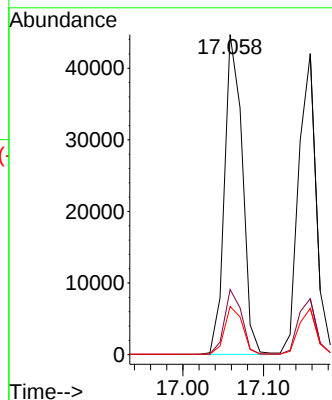
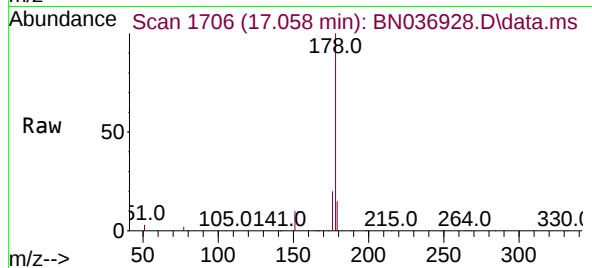




#25  
Phenanthrene  
Concen: 3.273 ng  
RT: 17.058 min Scan# 1706  
Delta R.T. 0.000 min  
Lab File: BN036928.D  
Acq: 28 Apr 2025 14:36

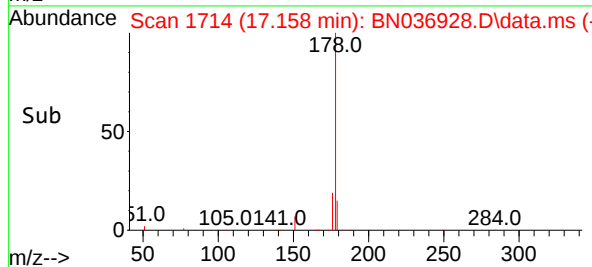
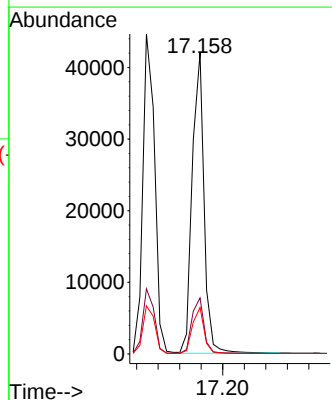
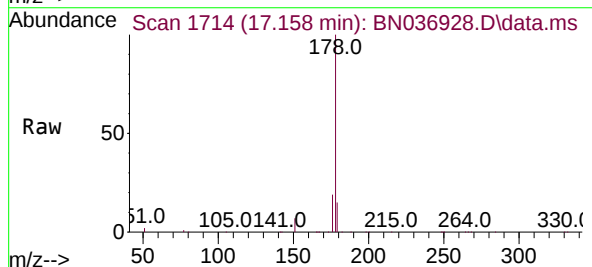
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

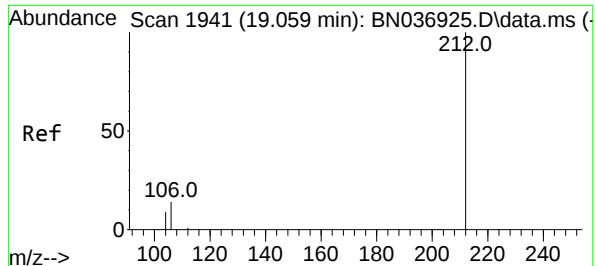
Tgt Ion:178 Resp: 68482  
Ion Ratio Lower Upper  
178 100  
176 19.8 15.7 23.5  
179 15.1 12.4 18.6



#26  
Anthracene  
Concen: 3.430 ng  
RT: 17.158 min Scan# 1714  
Delta R.T. 0.000 min  
Lab File: BN036928.D  
Acq: 28 Apr 2025 14:36

Tgt Ion:178 Resp: 64181  
Ion Ratio Lower Upper  
178 100  
176 19.0 15.3 22.9  
179 15.2 12.1 18.1

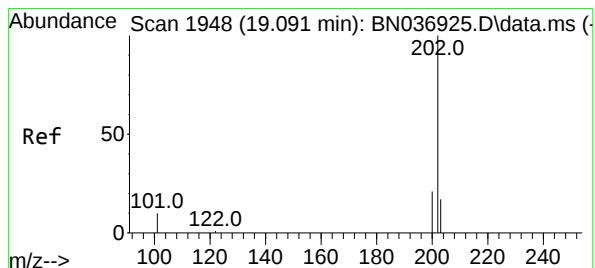
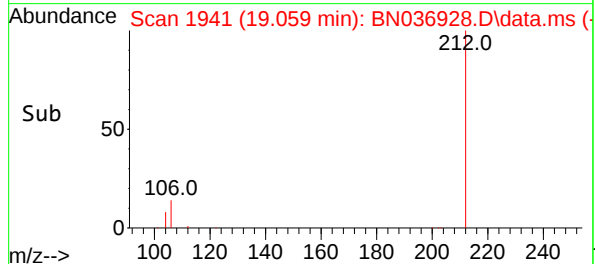
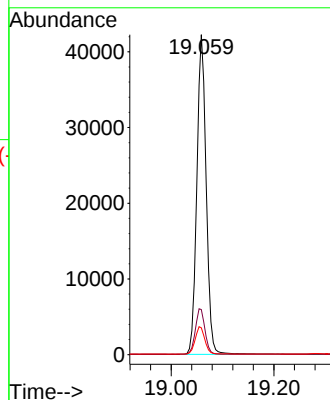
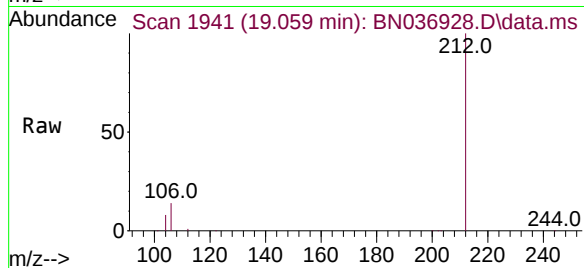




#27  
Fluoranthene-d10  
Concen: 3.290 ng  
RT: 19.059 min Scan# 1941  
Delta R.T. 0.000 min  
Lab File: BN036928.D  
Acq: 28 Apr 2025 14:36

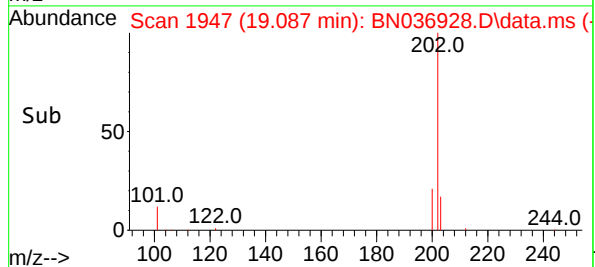
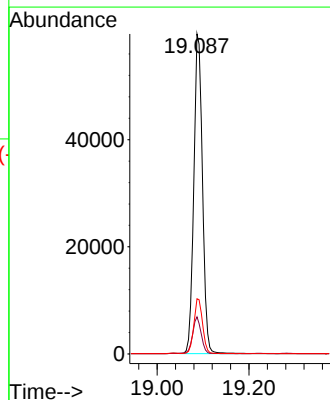
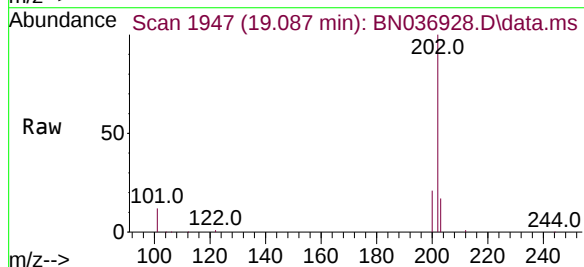
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

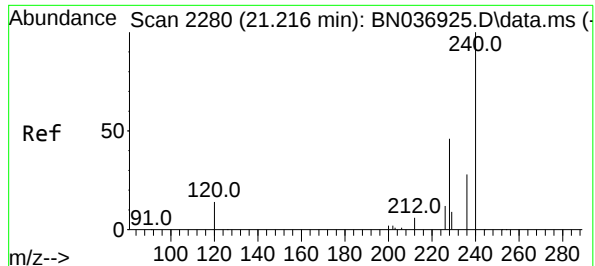
Tgt Ion:212 Resp: 53576  
Ion Ratio Lower Upper  
212 100  
106 14.7 11.6 17.4  
104 8.8 7.0 10.4



#28  
Fluoranthene  
Concen: 3.358 ng  
RT: 19.087 min Scan# 1947  
Delta R.T. -0.005 min  
Lab File: BN036928.D  
Acq: 28 Apr 2025 14:36

Tgt Ion:202 Resp: 77836  
Ion Ratio Lower Upper  
202 100  
101 11.5 8.5 12.7  
203 17.2 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.216 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036928.D

Acq: 28 Apr 2025 14:36

Instrument :

BNA\_N

ClientSampleId :

SSTDICC3.2

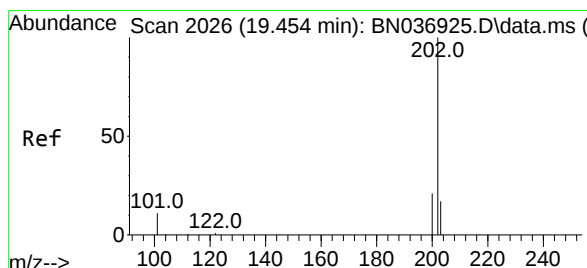
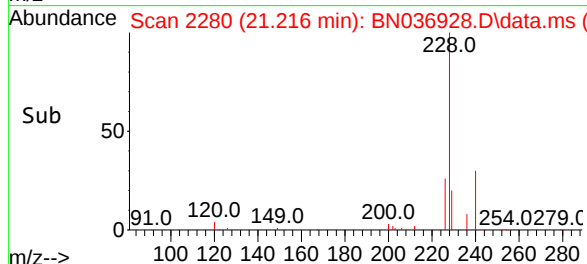
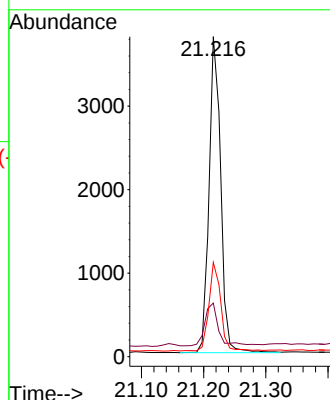
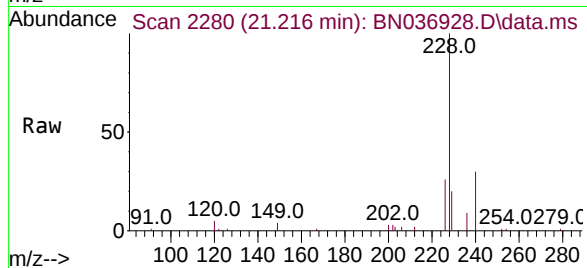
Tgt Ion:240 Resp: 4896

Ion Ratio Lower Upper

240 100

120 16.7 14.1 21.1

236 29.5 23.8 35.8



#30

Pyrene

Concen: 3.241 ng

RT: 19.454 min Scan# 2026

Delta R.T. 0.000 min

Lab File: BN036928.D

Acq: 28 Apr 2025 14:36

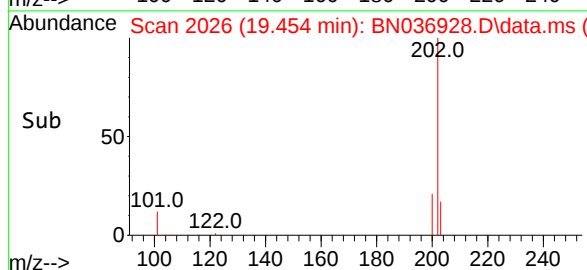
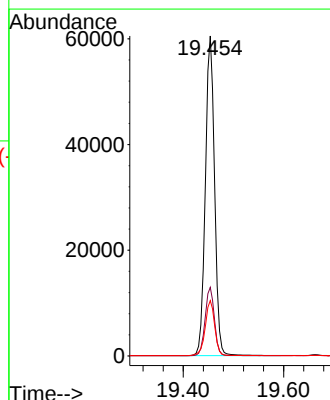
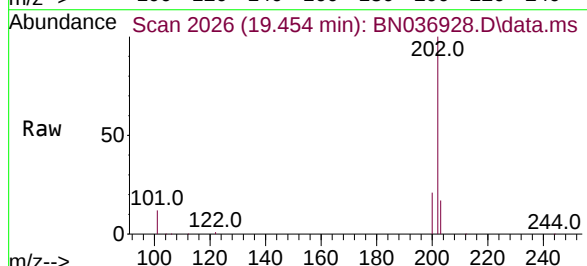
Tgt Ion:202 Resp: 77117

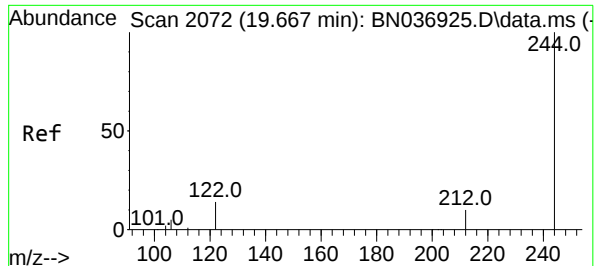
Ion Ratio Lower Upper

202 100

200 21.5 17.0 25.6

203 17.7 14.0 21.0

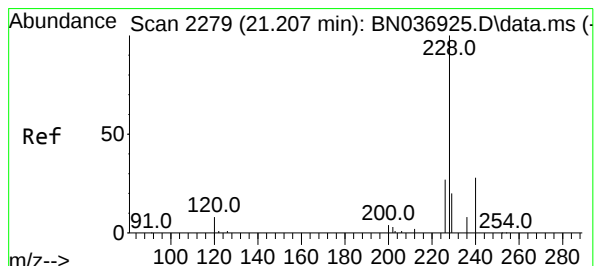
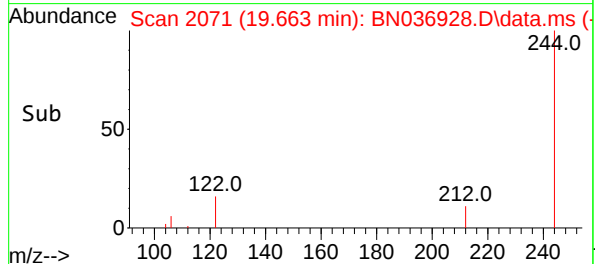
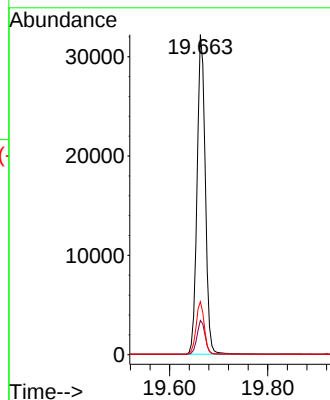
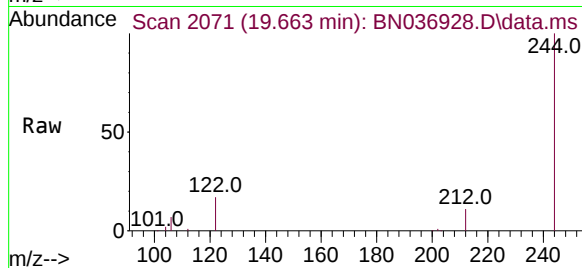




#31  
Terphenyl-d14  
Concen: 3.200 ng  
RT: 19.663 min Scan# 2072  
Delta R.T. -0.005 min  
Lab File: BN036928.D  
Acq: 28 Apr 2025 14:36

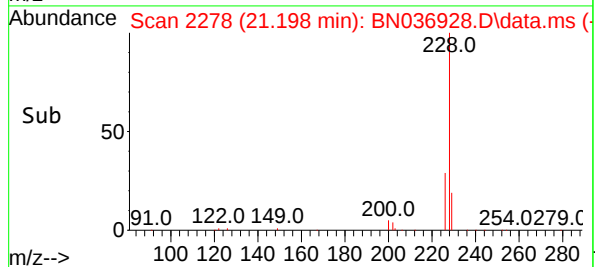
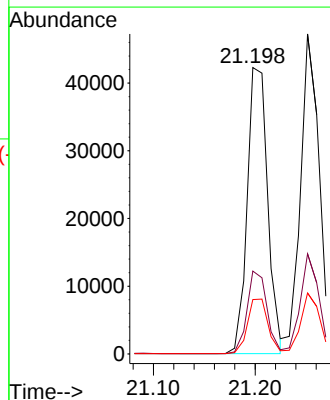
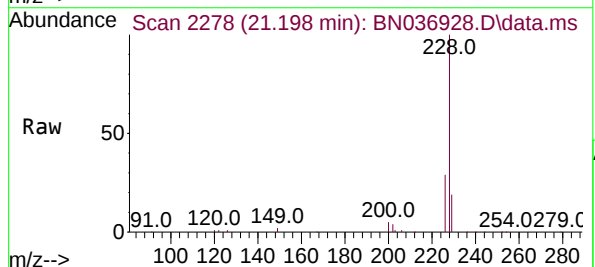
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

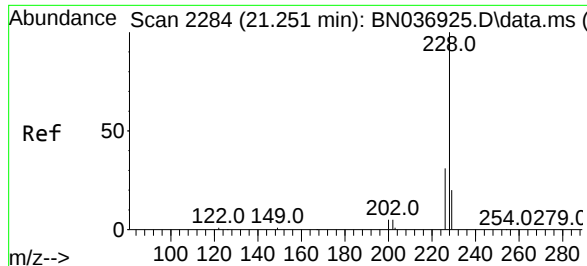
Tgt Ion:244 Resp: 37287  
Ion Ratio Lower Upper  
244 100  
212 10.7 9.6 14.4  
122 16.5 12.7 19.1



#32  
Benzo(a)anthracene  
Concen: 3.310 ng  
RT: 21.198 min Scan# 2278  
Delta R.T. -0.009 min  
Lab File: BN036928.D  
Acq: 28 Apr 2025 14:36

Tgt Ion:228 Resp: 59092  
Ion Ratio Lower Upper  
228 100  
226 29.0 22.2 33.4  
229 19.0 16.4 24.6





#33

Chrysene

Concen: 3.149 ng

RT: 21.251 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036928.D

Acq: 28 Apr 2025 14:36

Instrument :

BNA\_N

ClientSampleId :

SSTDICC3.2

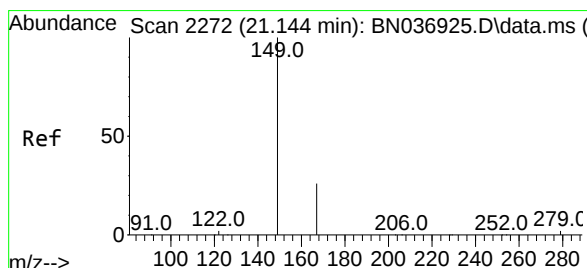
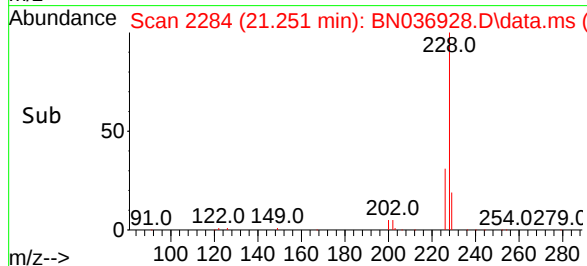
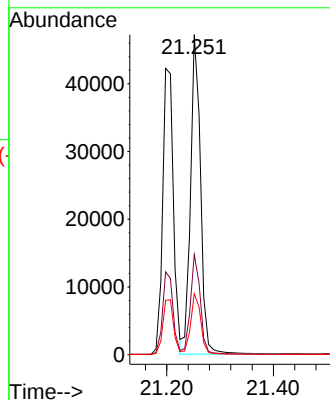
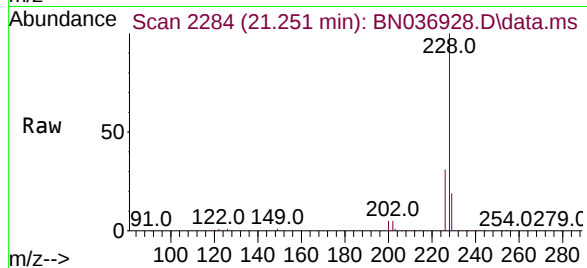
Tgt Ion:228 Resp: 61582

Ion Ratio Lower Upper

228 100

226 31.3 25.5 38.3

229 19.1 16.5 24.7



#34

Bis(2-ethylhexyl)phthalate

Concen: 3.002 ng

RT: 21.144 min Scan# 2272

Delta R.T. 0.000 min

Lab File: BN036928.D

Acq: 28 Apr 2025 14:36

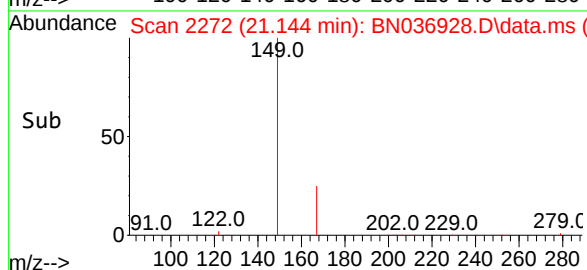
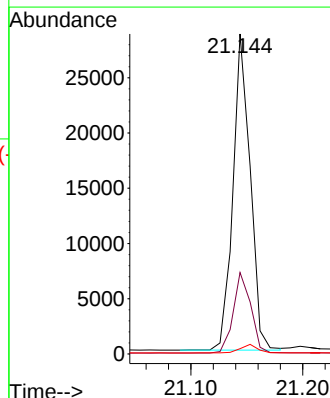
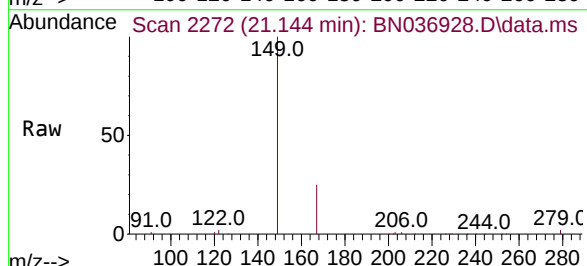
Tgt Ion:149 Resp: 30625

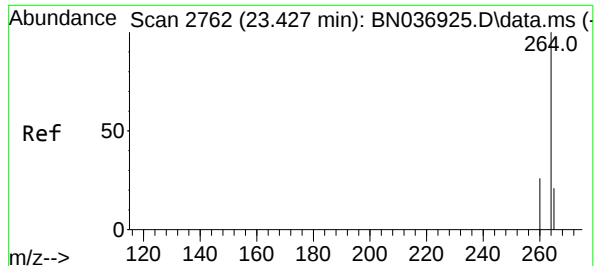
Ion Ratio Lower Upper

149 100

167 26.0 21.0 31.6

279 2.7 2.7 4.1#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.430 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN036928.D

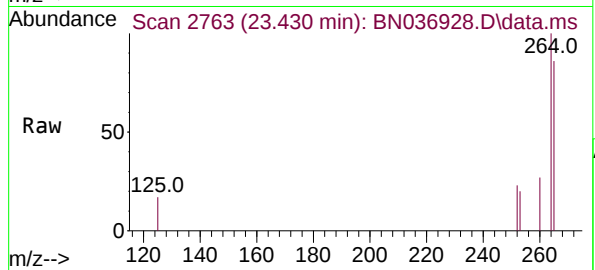
Acq: 28 Apr 2025 14:36

Instrument :

BNA\_N

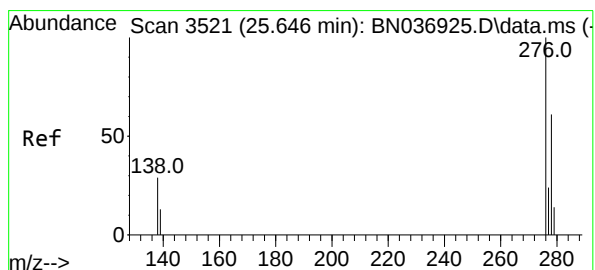
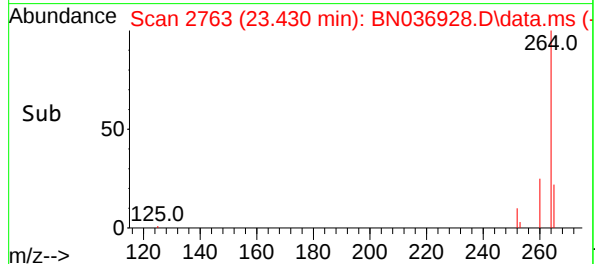
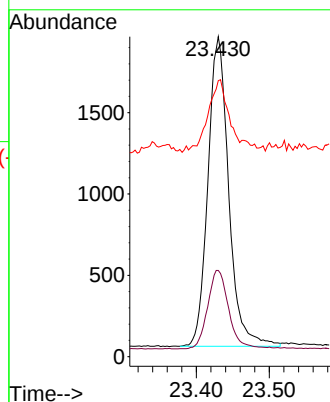
ClientSampleId :

SSTDICC3.2



Tgt Ion:264 Resp: 3763

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 26.9  | 22.2  | 33.2  |
| 265 | 86.3  | 65.8  | 98.6  |



#36

Indeno(1,2,3-cd)pyrene

Concen: 3.369 ng

RT: 25.643 min Scan# 3520

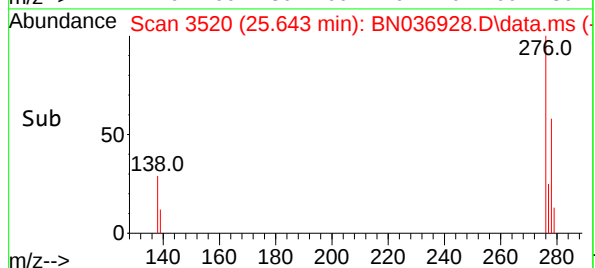
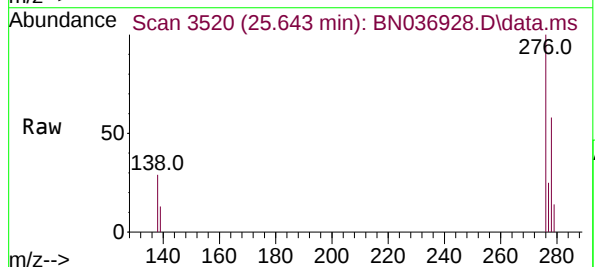
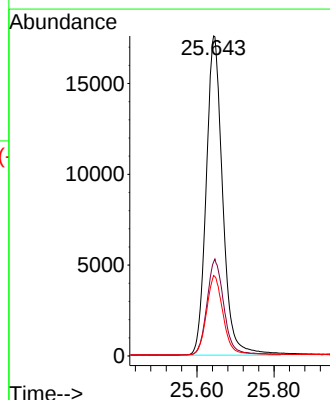
Delta R.T. -0.003 min

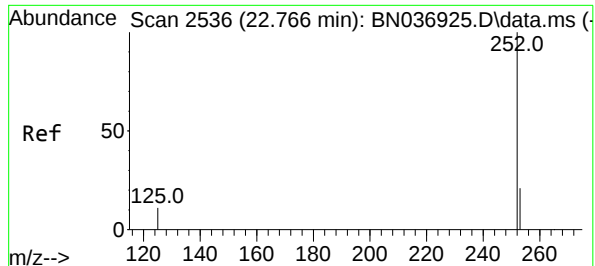
Lab File: BN036928.D

Acq: 28 Apr 2025 14:36

Tgt Ion:276 Resp: 51906

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100   |       |       |
| 138 | 30.7  | 23.0  | 34.6  |
| 277 | 25.1  | 20.0  | 30.0  |





#37

Benzo(b)fluoranthene

Concen: 3.393 ng

RT: 22.766 min Scan# 2536

Delta R.T. 0.000 min

Lab File: BN036928.D

Acq: 28 Apr 2025 14:36

Instrument :

BNA\_N

ClientSampleId :

SSTDICC3.2

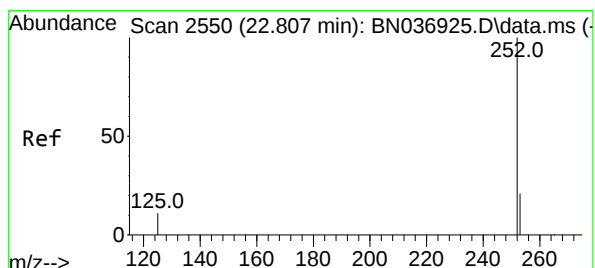
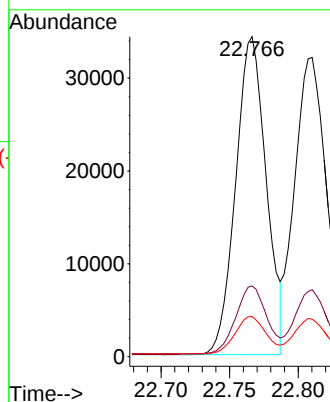
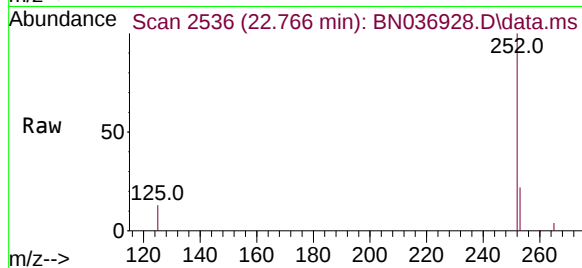
Tgt Ion:252 Resp: 52921

Ion Ratio Lower Upper

252 100

253 22.1 22.1 33.1

125 12.6 14.2 21.2#



#38

Benzo(k)fluoranthene

Concen: 3.406 ng

RT: 22.810 min Scan# 2551

Delta R.T. 0.003 min

Lab File: BN036928.D

Acq: 28 Apr 2025 14:36

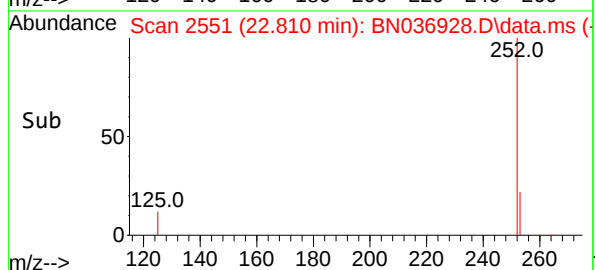
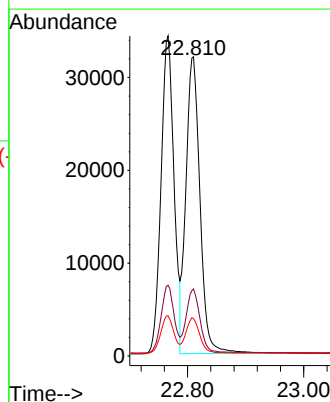
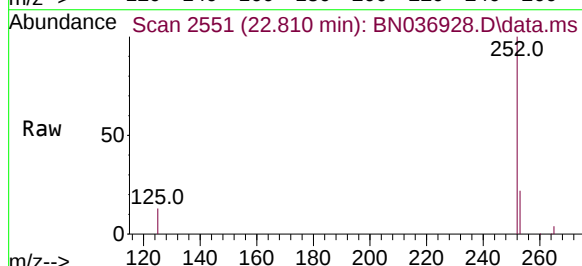
Tgt Ion:252 Resp: 53706

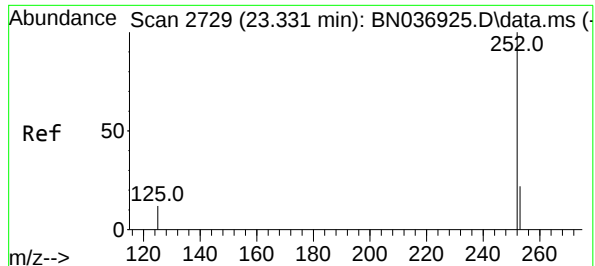
Ion Ratio Lower Upper

252 100

253 22.4 22.8 34.2#

125 12.5 14.2 21.2#





#39

Benzo(a)pyrene

Concen: 3.387 ng

RT: 23.331 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036928.D

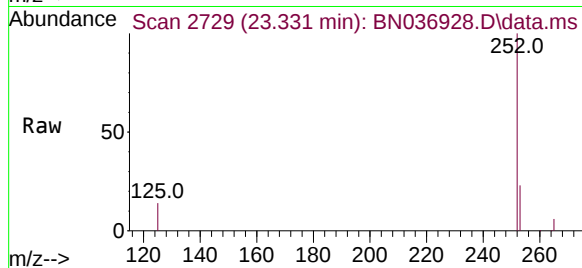
Acq: 28 Apr 2025 14:36

Instrument :

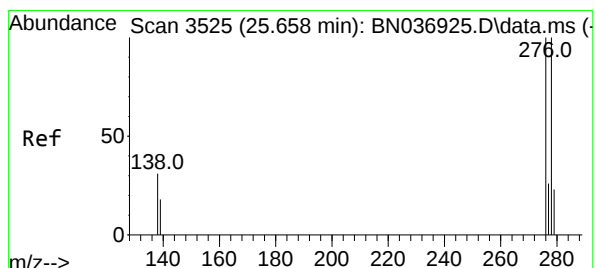
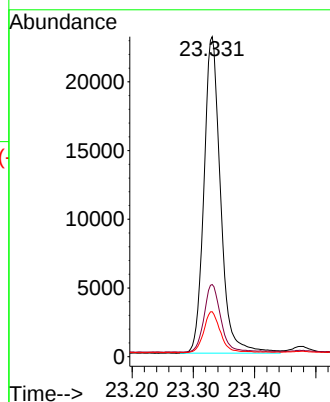
BNA\_N

ClientSampleId :

SSTDICC3.2



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 43554 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 22.6  | 25.9  | 38.9# |
| 125       | 14.1  | 17.4  | 26.0# |



#40

Dibenzo(a,h)anthracene

Concen: 3.423 ng

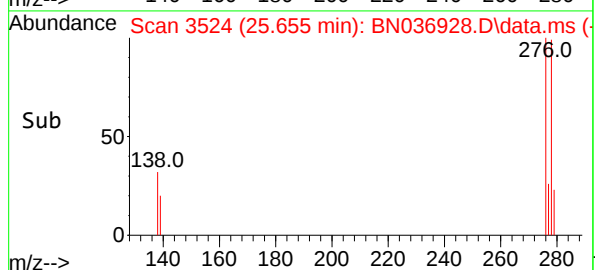
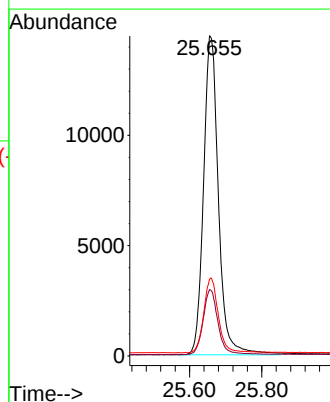
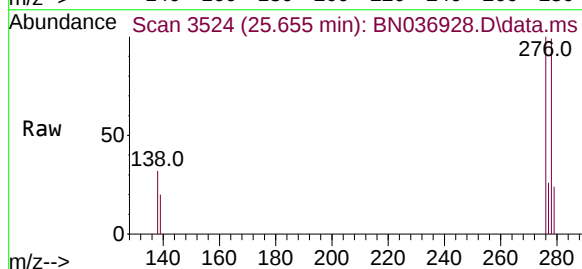
RT: 25.655 min Scan# 3524

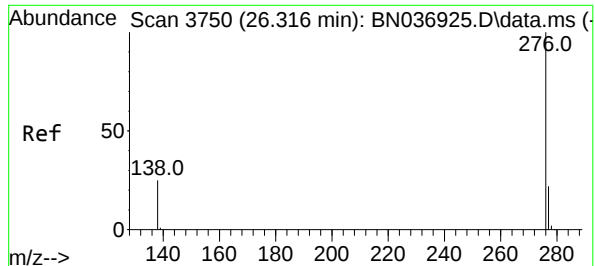
Delta R.T. -0.003 min

Lab File: BN036928.D

Acq: 28 Apr 2025 14:36

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 278   | Resp: | 41500 |
| Ion Ratio | Lower | Upper |       |
| 278       | 100   |       |       |
| 139       | 20.7  | 17.4  | 26.2  |
| 279       | 23.9  | 24.9  | 37.3# |





#41

Benzo(g,h,i)perylene

Concen: 3.263 ng

RT: 26.319 min Scan# 31

Delta R.T. 0.003 min

Lab File: BN036928.D

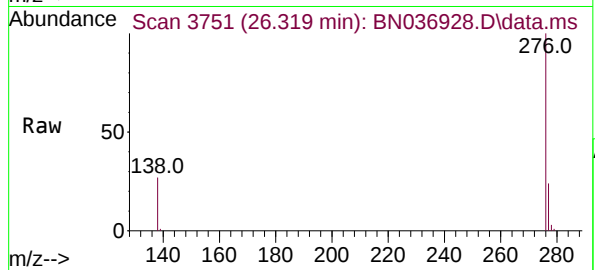
Acq: 28 Apr 2025 14:36

Instrument :

BNA\_N

ClientSampleId :

SSTDICC3.2



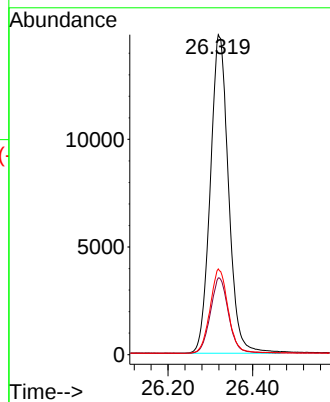
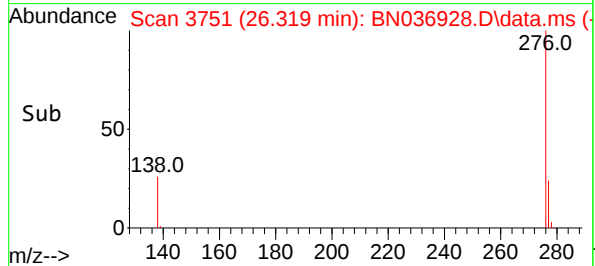
Tgt Ion:276 Resp: 44250

Ion Ratio Lower Upper

276 100

277 24.0 20.2 30.2

138 26.8 21.9 32.9



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN042825\  
 Data File : BN036929.D  
 Acq On : 28 Apr 2025 15:12  
 Operator : RC/JU  
 Sample : SSTDICC5.0  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC5.0

Quant Time: Apr 28 15:34:02 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN042825.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Apr 28 15:18:01 2025  
 Response via : Initial Calibration

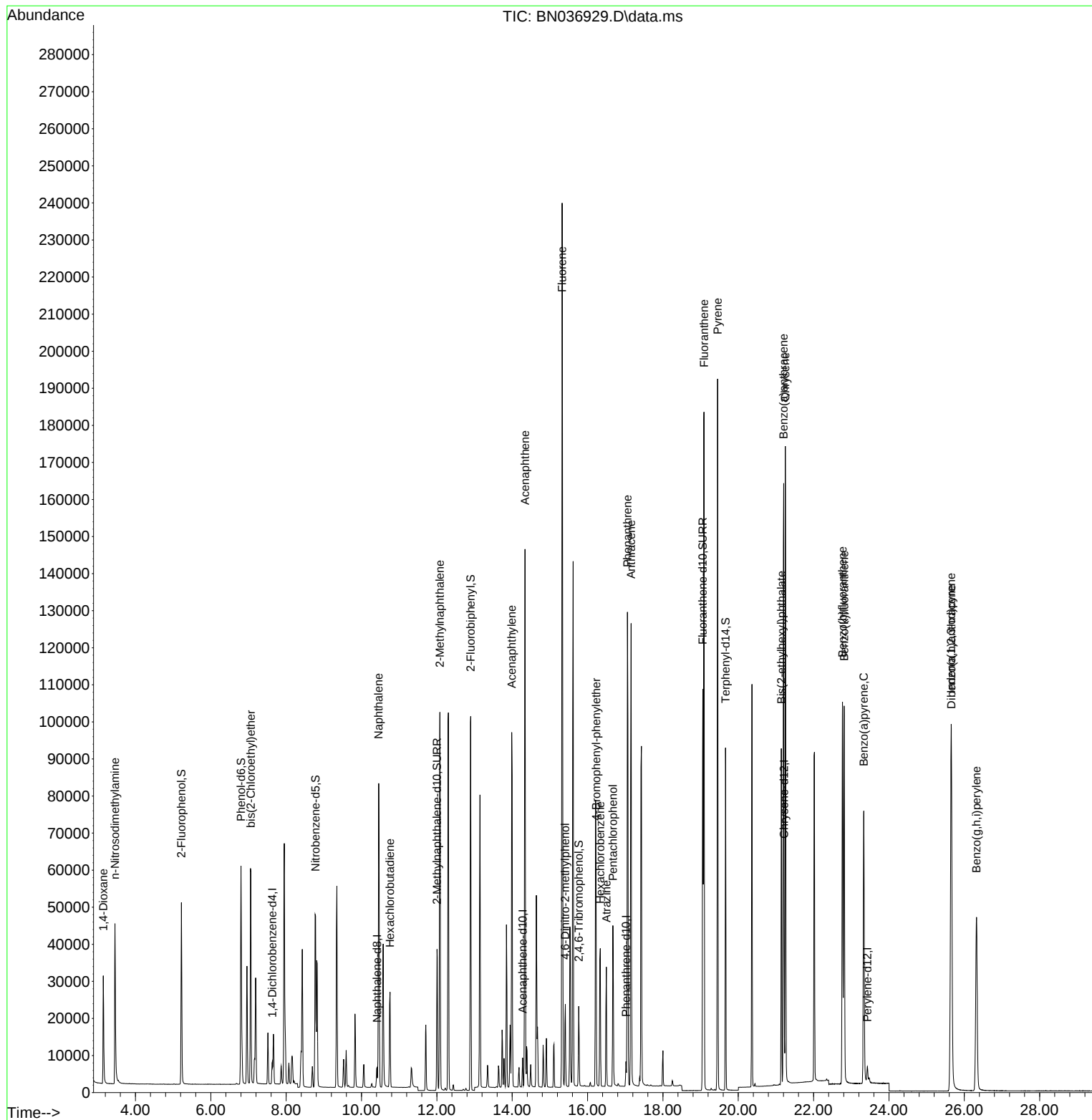
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.632  | 152  | 2667     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.415 | 136  | 6741     | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 14.277 | 164  | 4034     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 17.021 | 188  | 7924     | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 21.215 | 240  | 7034     | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.427 | 264  | 5350     | 0.400 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.220  | 112  | 32346    | 4.701 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.802  | 99   | 42419    | 5.060 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.781  | 82   | 36759    | 5.249 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 12.006 | 152  | 49610    | 5.308 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.767 | 330  | 9898     | 5.599 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.898 | 172  | 97228    | 4.984 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 19.058 | 212  | 110482   | 5.447 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.662 | 244  | 78873    | 4.712 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| Target Compounds              |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.147  | 88   | 15494    | 4.610 | ng    | 96       |
| 3) n-Nitrosodimethylamine     | 3.458  | 42   | 30605    | 4.705 | ng    | # 98     |
| 6) bis(2-Chloroethyl)ether    | 7.062  | 93   | 38731    | 4.973 | ng    | 99       |
| 9) Naphthalene                | 10.457 | 128  | 98160    | 5.004 | ng    | 98       |
| 10) Hexachlorobutadiene       | 10.756 | 225  | 20245    | 4.733 | ng    | # 98     |
| 12) 2-Methylnaphthalene       | 12.082 | 142  | 67281    | 5.359 | ng    | 98       |
| 16) Acenaphthylene            | 13.988 | 152  | 104172   | 5.334 | ng    | 100      |
| 17) Acenaphthene              | 14.341 | 154  | 65801    | 5.093 | ng    | 98       |
| 18) Fluorene                  | 15.325 | 166  | 88362    | 5.254 | ng    | 99       |
| 20) 4,6-Dinitro-2-methylph... | 15.410 | 198  | 13303    | 6.700 | ng    | # 52     |
| 21) 4-Bromophenyl-phenylether | 16.226 | 248  | 26778    | 5.074 | ng    | 94       |
| 22) Hexachlorobenzene         | 16.338 | 284  | 27944    | 4.793 | ng    | 99       |
| 23) Atrazine                  | 16.499 | 200  | 24525    | 5.893 | ng    | # 91     |
| 24) Pentachlorophenol         | 16.673 | 266  | 17963    | 5.937 | ng    | 99       |
| 25) Phenanthrene              | 17.058 | 178  | 133437   | 5.119 | ng    | 99       |
| 26) Anthracene                | 17.157 | 178  | 128680   | 5.520 | ng    | 100      |
| 28) Fluoranthene              | 19.091 | 202  | 159754   | 5.533 | ng    | 99       |
| 30) Pyrene                    | 19.453 | 202  | 160324   | 4.691 | ng    | 100      |
| 32) Benzo(a)anthracene        | 21.206 | 228  | 137209   | 5.349 | ng    | 98       |
| 33) Chrysene                  | 21.251 | 228  | 135038   | 4.807 | ng    | 98       |
| 34) Bis(2-ethylhexyl)phtha... | 21.143 | 149  | 76115    | 5.194 | ng    | # 99     |
| 36) Indeno(1,2,3-cd)pyrene    | 25.649 | 276  | 107583   | 4.911 | ng    | 97       |
| 37) Benzo(b)fluoranthene      | 22.766 | 252  | 122058   | 5.504 | ng    | # 89     |
| 38) Benzo(k)fluoranthene      | 22.810 | 252  | 119359   | 5.325 | ng    | # 87     |
| 39) Benzo(a)pyrene            | 23.333 | 252  | 98753    | 5.402 | ng    | # 82     |
| 40) Dibenzo(a,h)anthracene    | 25.660 | 278  | 84789    | 4.920 | ng    | # 91     |
| 41) Benzo(g,h,i)perylene      | 26.324 | 276  | 89523    | 4.643 | ng    | 99       |
| -----                         |        |      |          |       |       |          |

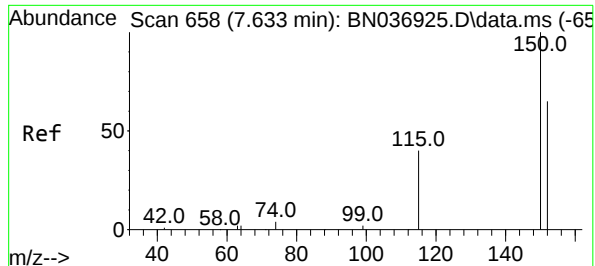
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN042825\  
Data File : BN036929.D  
Acq On : 28 Apr 2025 15:12  
Operator : RC/JU  
Sample : SSTDICC5.0  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

Quant Time: Apr 28 15:34:02 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN042825.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Apr 28 15:18:01 2025  
Response via : Initial Calibration

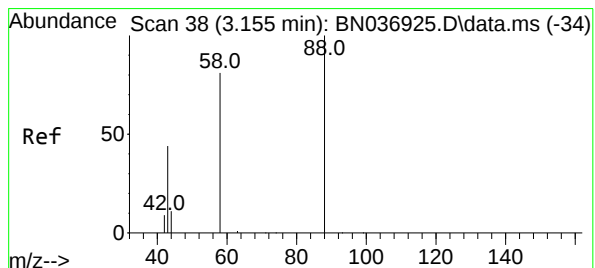
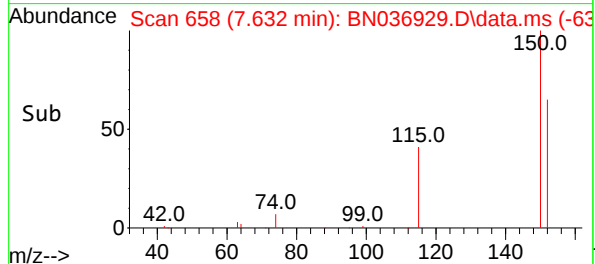
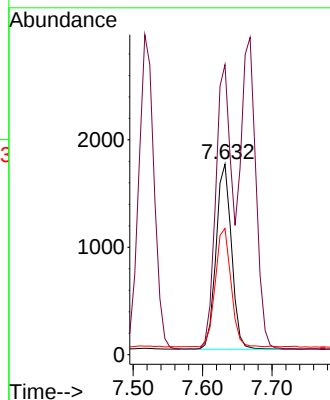
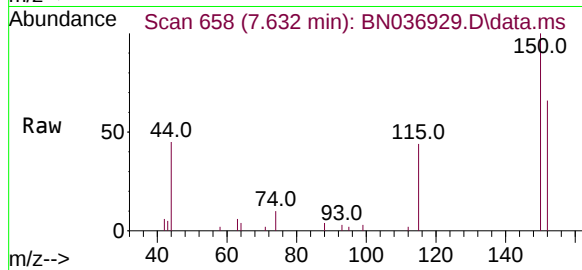




#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.632 min Scan# 61  
Delta R.T. -0.001 min  
Lab File: BN036929.D  
Acq: 28 Apr 2025 15:12

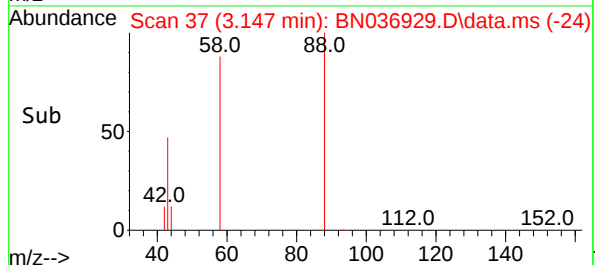
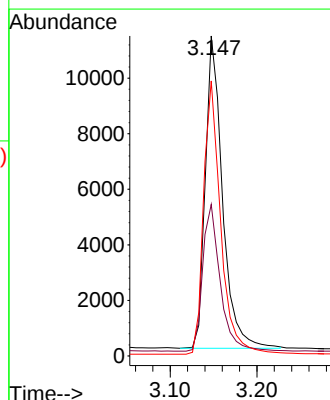
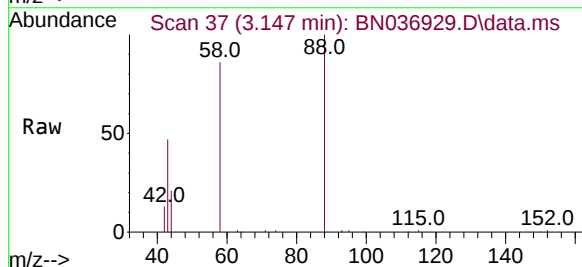
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

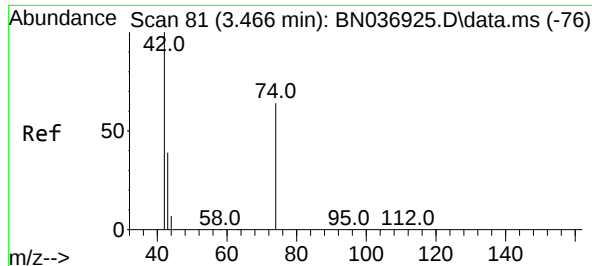
Tgt Ion:152 Resp: 2667  
Ion Ratio Lower Upper  
152 100  
150 152.3 121.1 181.7  
115 66.3 51.8 77.6



#2  
1,4-Dioxane  
Concen: 4.610 ng  
RT: 3.147 min Scan# 37  
Delta R.T. -0.008 min  
Lab File: BN036929.D  
Acq: 28 Apr 2025 15:12

Tgt Ion: 88 Resp: 15494  
Ion Ratio Lower Upper  
88 100  
43 47.8 37.9 56.9  
58 87.2 65.8 98.6

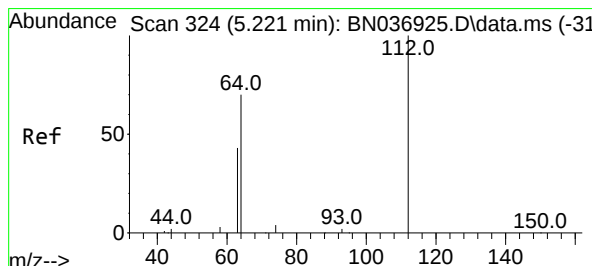
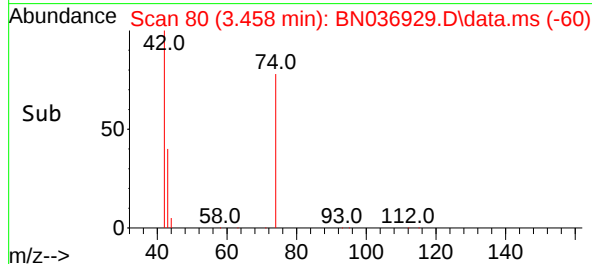
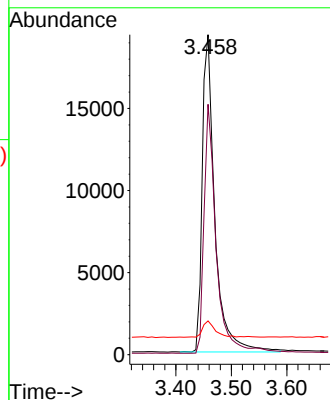
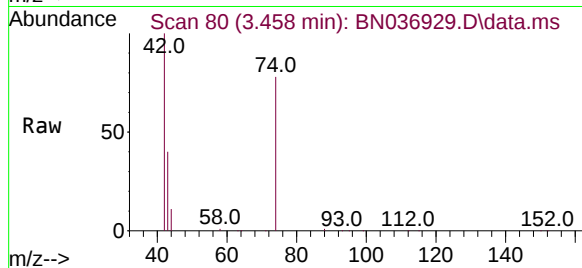




#3  
n-Nitrosodimethylamine  
Concen: 4.705 ng  
RT: 3.458 min Scan# 81  
Delta R.T. -0.008 min  
Lab File: BN036929.D  
Acq: 28 Apr 2025 15:12

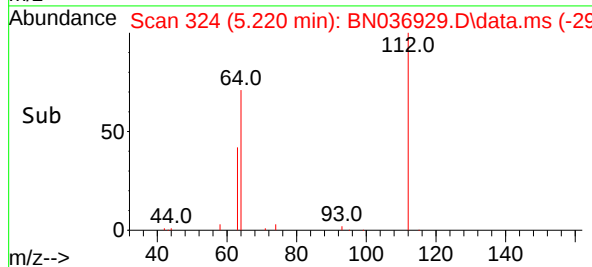
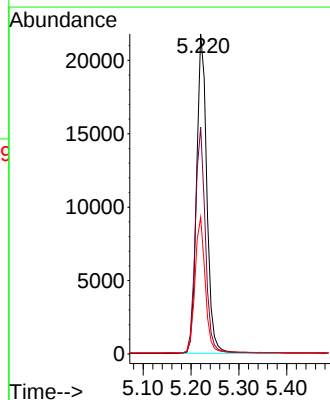
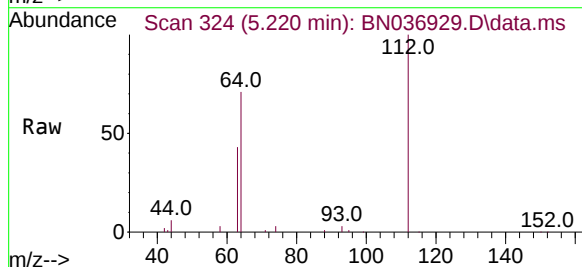
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

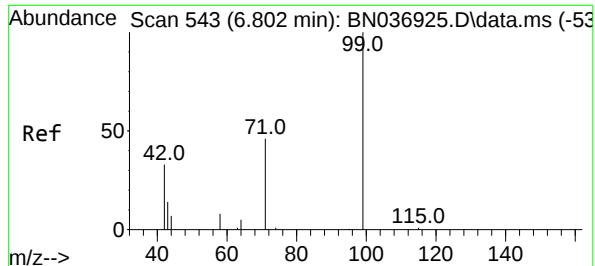
Tgt Ion: 42 Resp: 30605  
Ion Ratio Lower Upper  
42 100  
74 75.7 59.9 89.9  
44 5.2 7.5 11.3#



#4  
2-Fluorophenol  
Concen: 4.701 ng  
RT: 5.220 min Scan# 324  
Delta R.T. -0.001 min  
Lab File: BN036929.D  
Acq: 28 Apr 2025 15:12

Tgt Ion: 112 Resp: 32346  
Ion Ratio Lower Upper  
112 100  
64 69.9 55.7 83.5  
63 42.2 33.9 50.9

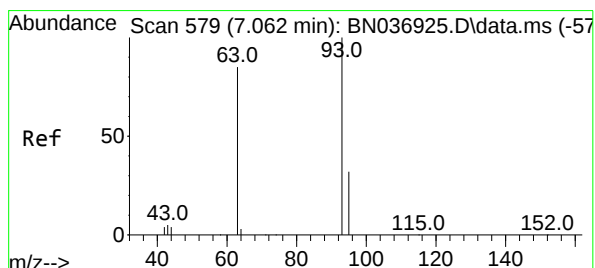
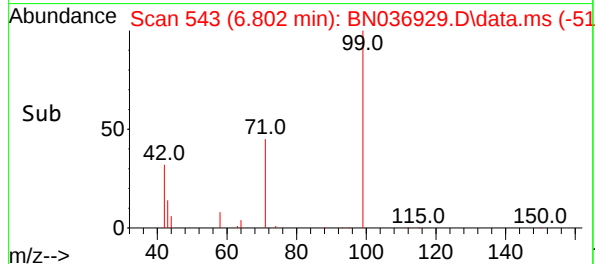
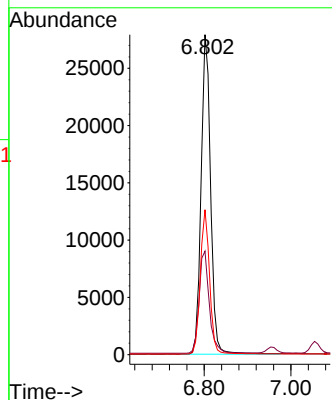
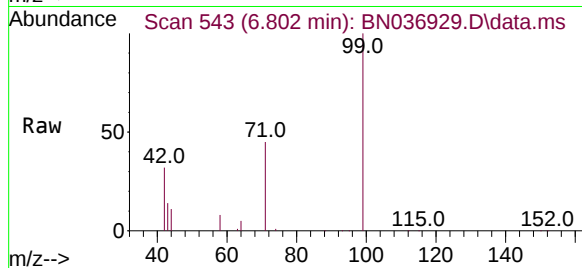




#5  
Phenol-d6  
Concen: 5.060 ng  
RT: 6.802 min Scan# 543  
Delta R.T. -0.001 min  
Lab File: BN036929.D  
Acq: 28 Apr 2025 15:12

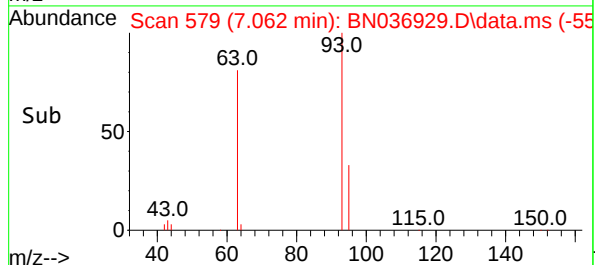
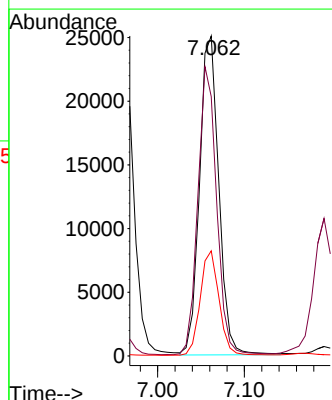
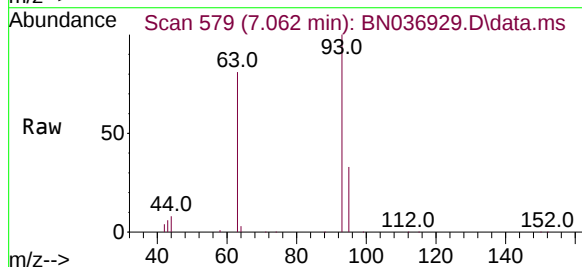
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

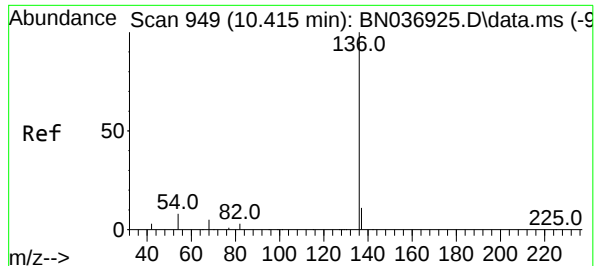
Tgt Ion: 99 Resp: 42419  
Ion Ratio Lower Upper  
99 100  
42 34.6 29.6 44.4  
71 44.3 36.0 54.0



#6  
bis(2-Chloroethyl)ether  
Concen: 4.973 ng  
RT: 7.062 min Scan# 579  
Delta R.T. -0.001 min  
Lab File: BN036929.D  
Acq: 28 Apr 2025 15:12

Tgt Ion: 93 Resp: 38731  
Ion Ratio Lower Upper  
93 100  
63 87.6 69.0 103.6  
95 32.0 25.4 38.0

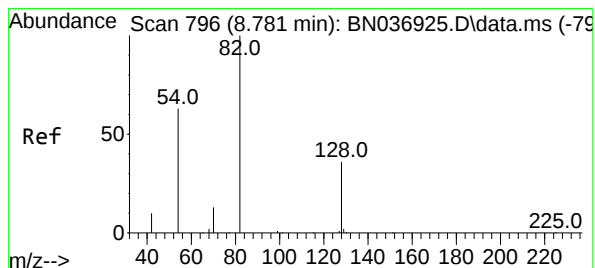
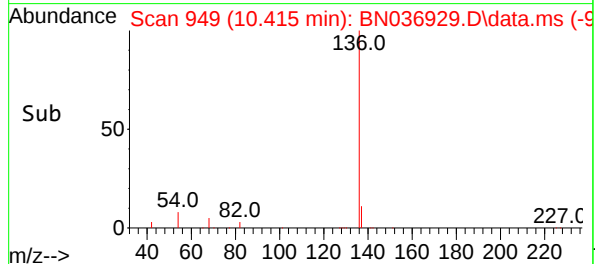
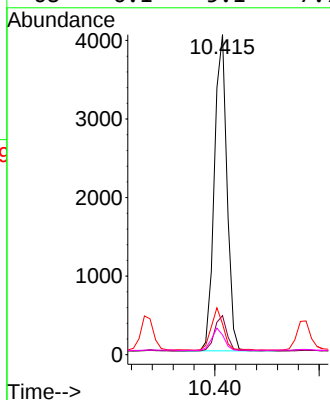
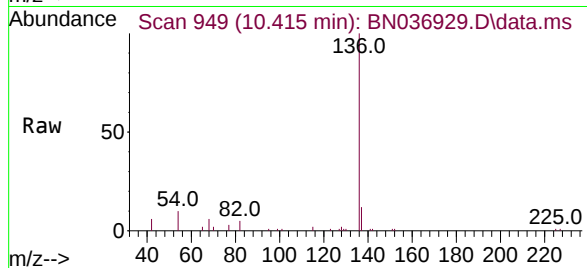




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.415 min Scan# 949  
Delta R.T. -0.001 min  
Lab File: BN036929.D  
Acq: 28 Apr 2025 15:12

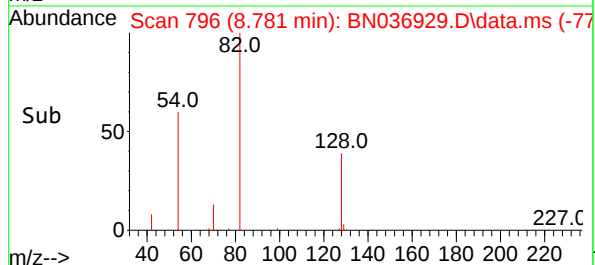
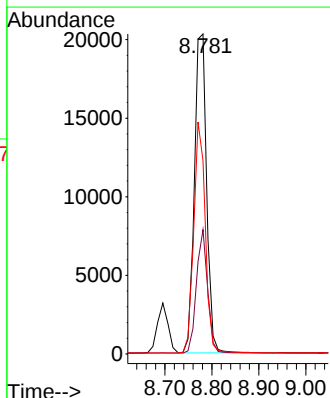
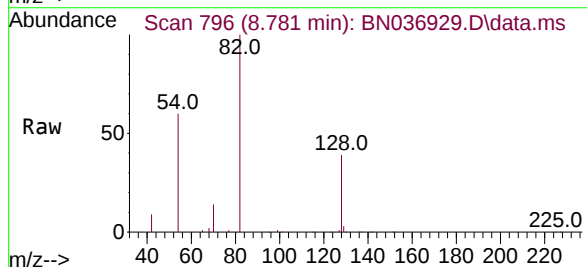
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

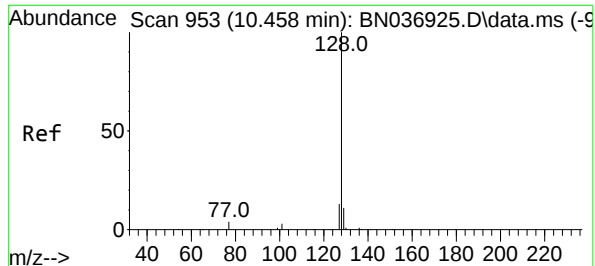
Tgt Ion:136 Resp: 6741  
Ion Ratio Lower Upper  
136 100  
137 12.2 9.7 14.5  
54 9.7 8.0 12.0  
68 6.1 5.1 7.7



#8  
Nitrobenzene-d5  
Concen: 5.249 ng  
RT: 8.781 min Scan# 796  
Delta R.T. -0.001 min  
Lab File: BN036929.D  
Acq: 28 Apr 2025 15:12

Tgt Ion: 82 Resp: 36759  
Ion Ratio Lower Upper  
82 100  
128 38.9 30.7 46.1  
54 60.4 52.1 78.1

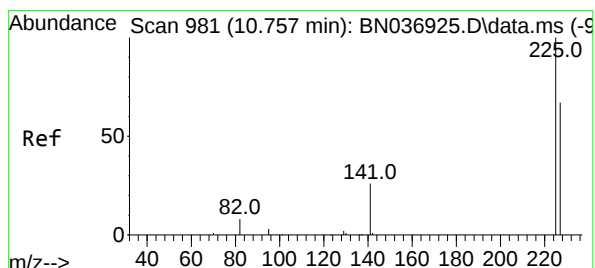
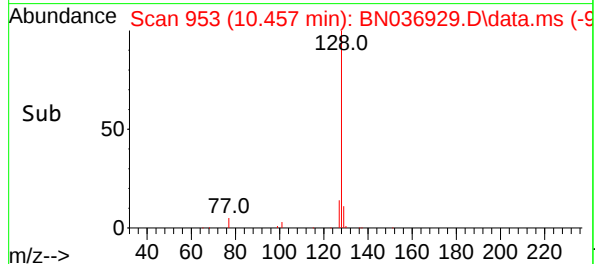
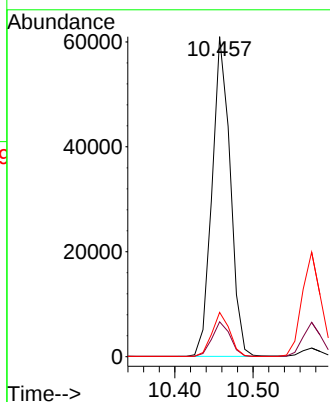
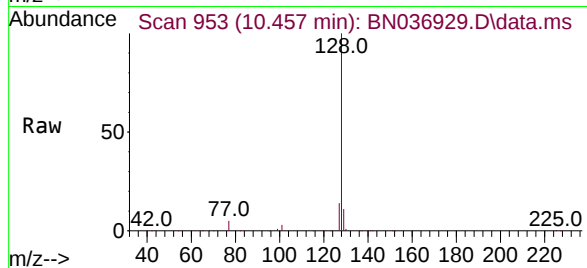




#9  
Naphthalene  
Concen: 5.004 ng  
RT: 10.457 min Scan# 91  
Delta R.T. -0.001 min  
Lab File: BN036929.D  
Acq: 28 Apr 2025 15:12

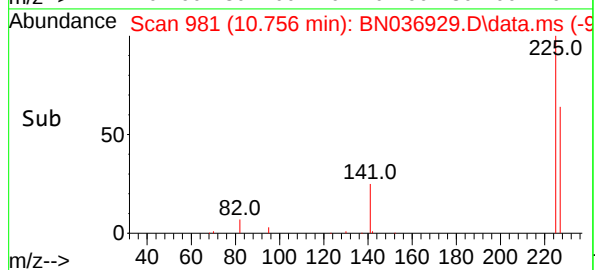
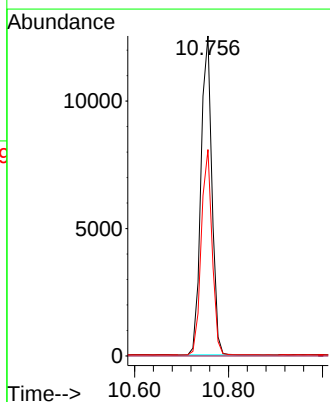
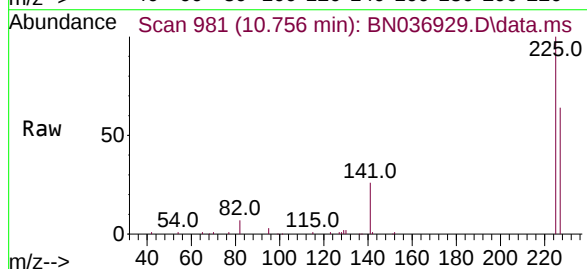
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

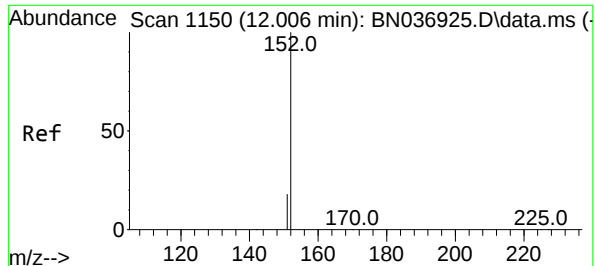
| Tgt Ion   | 128   | 129  | 127  |
|-----------|-------|------|------|
| Resp:     | 98160 |      |      |
| Ion Ratio | 100   | 10.9 | 13.9 |
| Lower     |       | 9.8  | 11.4 |
| Upper     |       | 14.6 | 17.2 |



#10  
Hexachlorobutadiene  
Concen: 4.733 ng  
RT: 10.756 min Scan# 981  
Delta R.T. -0.001 min  
Lab File: BN036929.D  
Acq: 28 Apr 2025 15:12

| Tgt Ion   | 225   | 223 | 227  |
|-----------|-------|-----|------|
| Resp:     | 20245 |     |      |
| Ion Ratio | 100   | 0.0 | 63.6 |
| Lower     |       | 0.0 | 52.2 |
| Upper     |       | 0.0 | 78.4 |

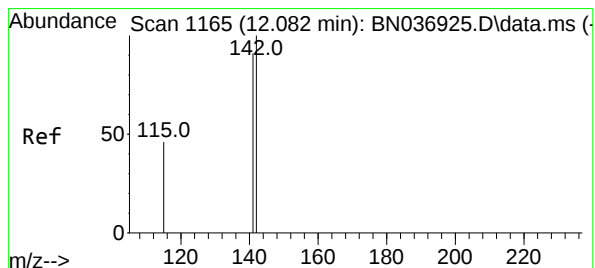
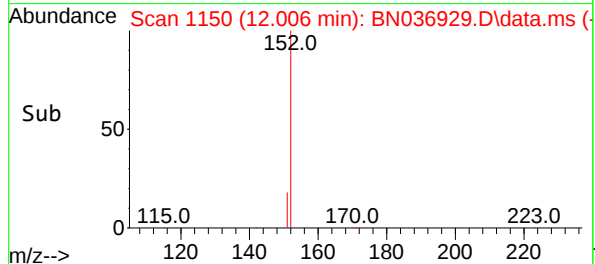
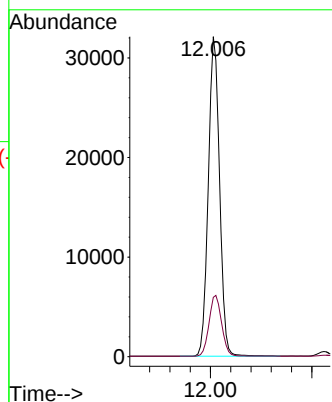
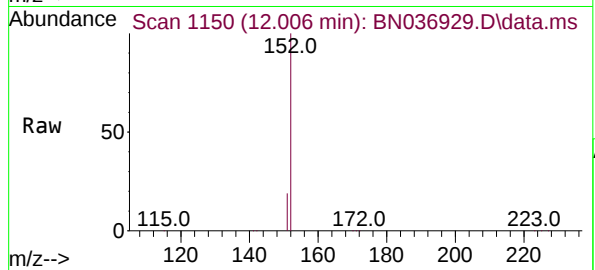




#11  
2-Methylnaphthalene-d10  
Concen: 5.308 ng  
RT: 12.006 min Scan# 1150  
Delta R.T. -0.000 min  
Lab File: BN036929.D  
Acq: 28 Apr 2025 15:12

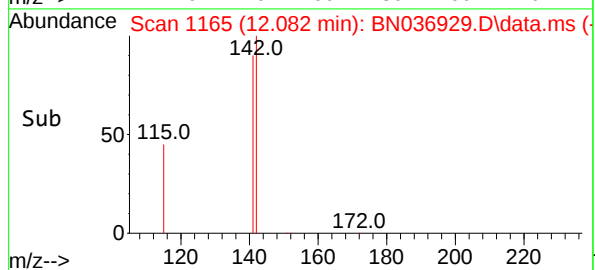
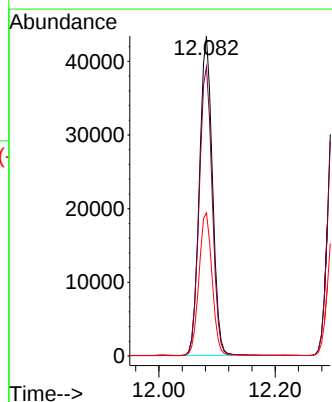
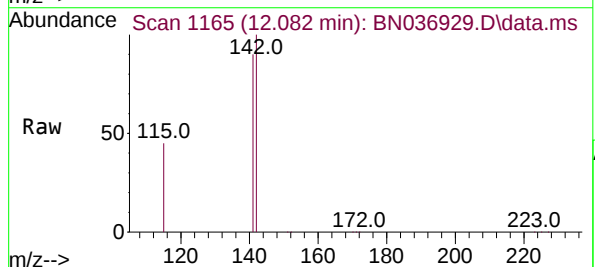
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

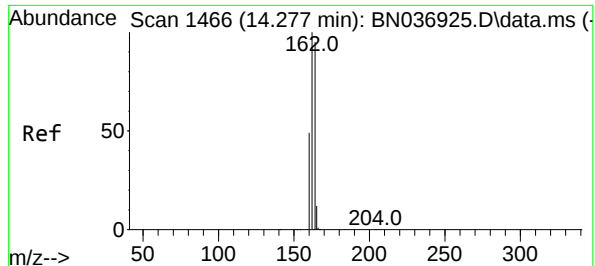
Tgt Ion:152 Resp: 49610  
Ion Ratio Lower Upper  
152 100  
151 21.3 16.9 25.3



#12  
2-Methylnaphthalene  
Concen: 5.359 ng  
RT: 12.082 min Scan# 1165  
Delta R.T. -0.001 min  
Lab File: BN036929.D  
Acq: 28 Apr 2025 15:12

Tgt Ion:142 Resp: 67281  
Ion Ratio Lower Upper  
142 100  
141 90.4 72.8 109.2  
115 44.7 38.2 57.4

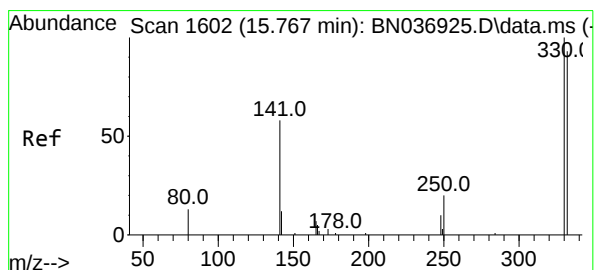
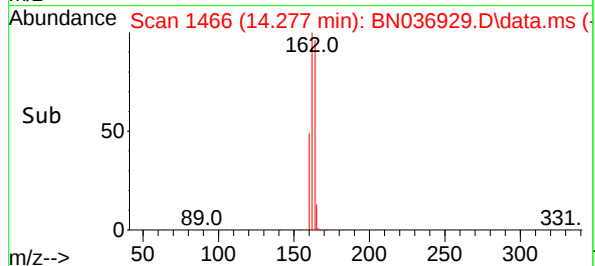
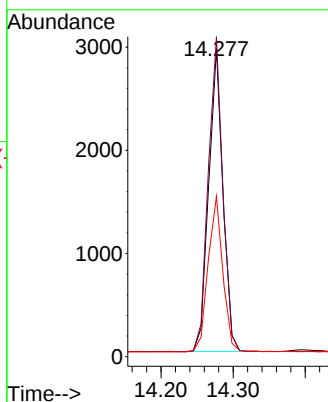
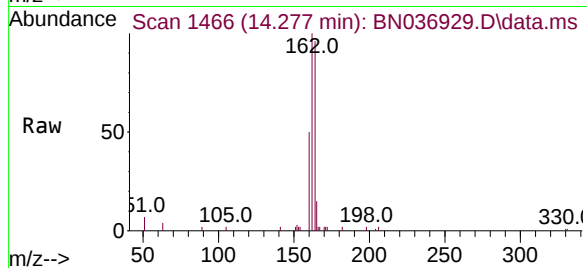




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.277 min Scan# 1466  
Delta R.T. -0.001 min  
Lab File: BN036929.D  
Acq: 28 Apr 2025 15:12

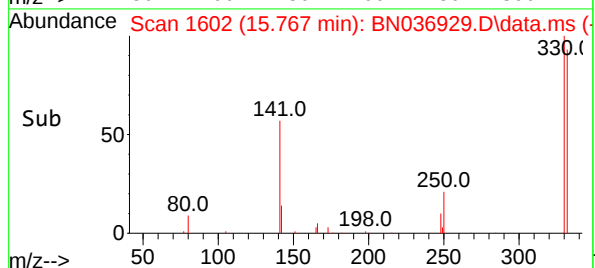
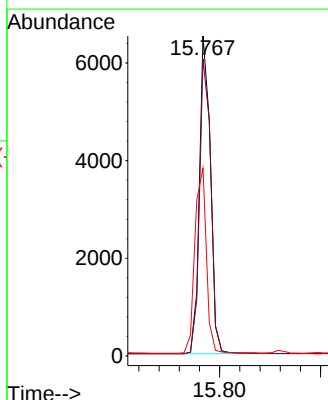
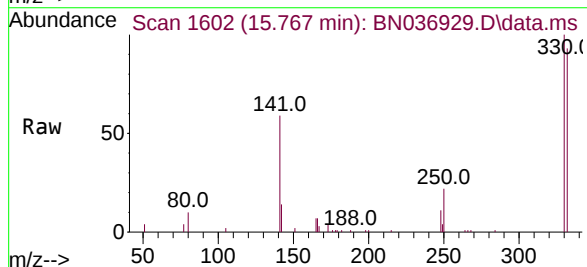
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

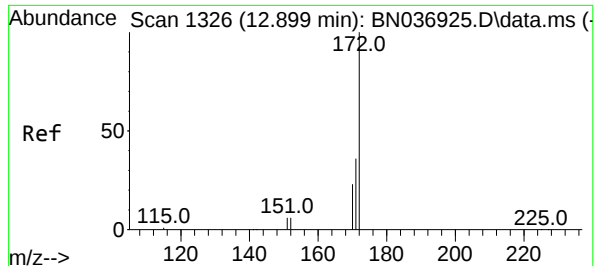
Tgt Ion:164 Resp: 4034  
Ion Ratio Lower Upper  
164 100  
162 103.9 83.8 125.8  
160 52.0 42.0 63.0



#14  
2,4,6-Tribromophenol  
Concen: 5.599 ng  
RT: 15.767 min Scan# 1602  
Delta R.T. -0.001 min  
Lab File: BN036929.D  
Acq: 28 Apr 2025 15:12

Tgt Ion:330 Resp: 9898  
Ion Ratio Lower Upper  
330 100  
332 95.5 76.3 114.5  
141 60.7 45.4 68.2

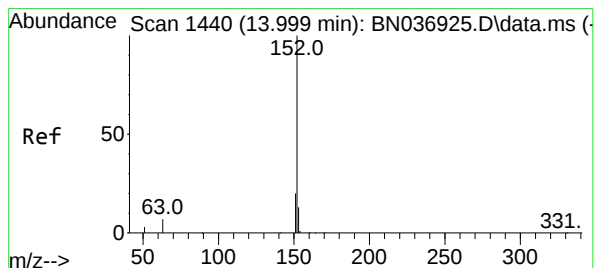
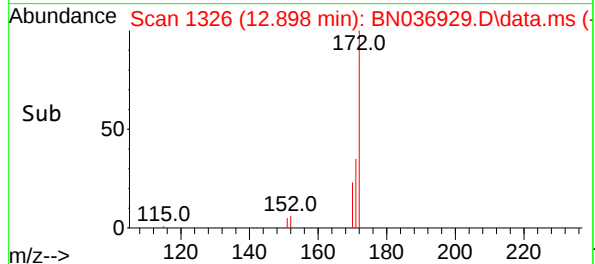
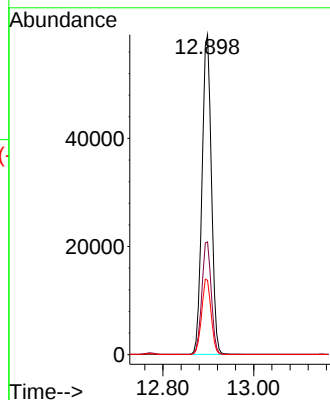
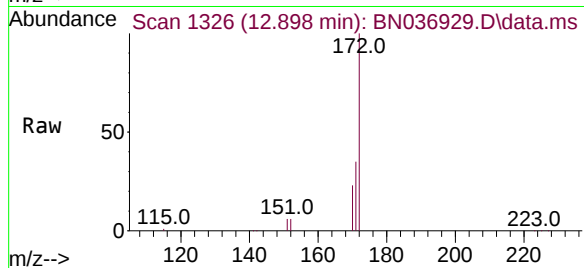




#15  
2-Fluorobiphenyl  
Concen: 4.984 ng  
RT: 12.898 min Scan# 1439  
Delta R.T. -0.001 min  
Lab File: BN036929.D  
Acq: 28 Apr 2025 15:12

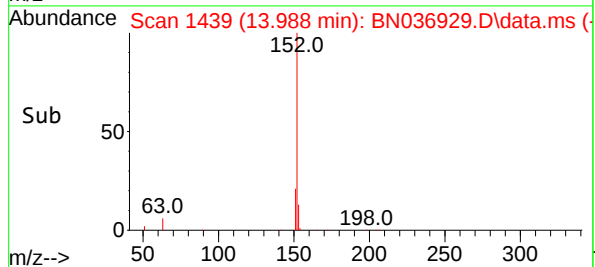
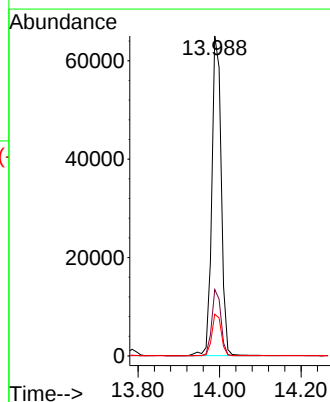
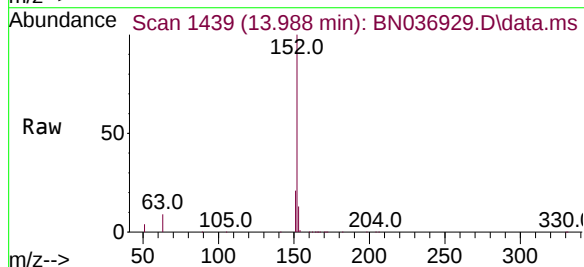
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

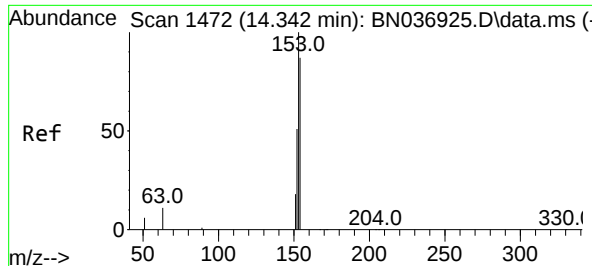
Tgt Ion:172 Resp: 97228  
Ion Ratio Lower Upper  
172 100  
171 35.2 29.4 44.0  
170 23.2 19.4 29.0



#16  
Acenaphthylene  
Concen: 5.334 ng  
RT: 13.988 min Scan# 1439  
Delta R.T. -0.011 min  
Lab File: BN036929.D  
Acq: 28 Apr 2025 15:12

Tgt Ion:152 Resp: 104172  
Ion Ratio Lower Upper  
152 100  
151 20.0 16.0 24.0  
153 13.0 10.2 15.2

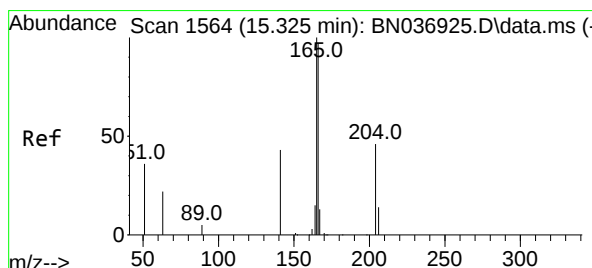
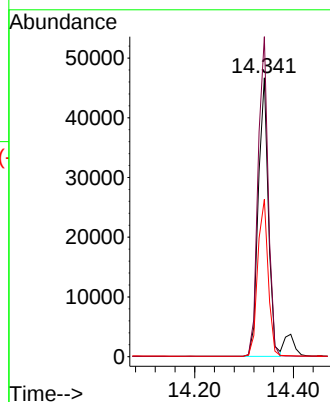
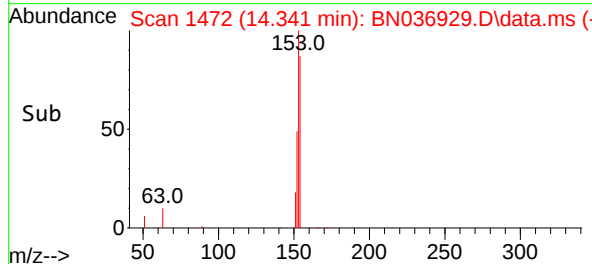
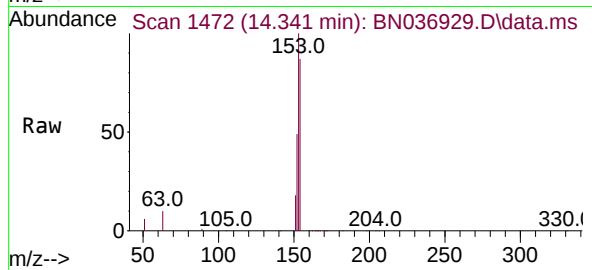




#17  
Acenaphthene  
Concen: 5.093 ng  
RT: 14.341 min Scan# 1472  
Delta R.T. -0.001 min  
Lab File: BN036929.D  
Acq: 28 Apr 2025 15:12

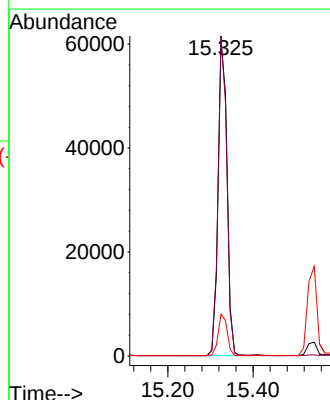
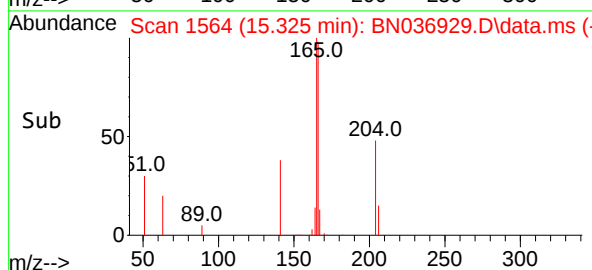
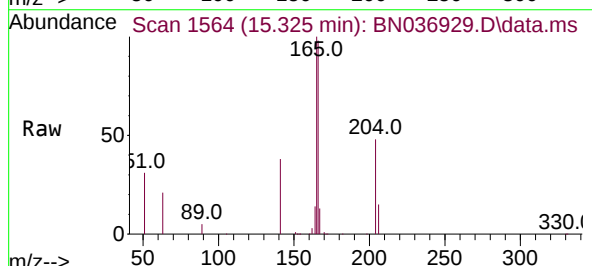
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

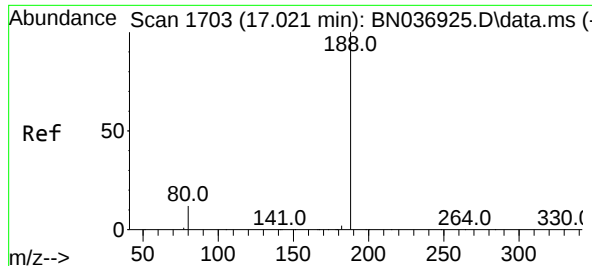
Tgt Ion:154 Resp: 65801  
Ion Ratio Lower Upper  
154 100  
153 115.8 93.4 140.2  
152 58.6 49.5 74.3



#18  
Fluorene  
Concen: 5.254 ng  
RT: 15.325 min Scan# 1564  
Delta R.T. -0.001 min  
Lab File: BN036929.D  
Acq: 28 Apr 2025 15:12

Tgt Ion:166 Resp: 88362  
Ion Ratio Lower Upper  
166 100  
165 99.7 80.8 121.2  
167 13.3 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.021 min Scan# 1

Delta R.T. -0.001 min

Lab File: BN036929.D

Acq: 28 Apr 2025 15:12

Instrument :

BNA\_N

ClientSampleId :

SSTDICC5.0

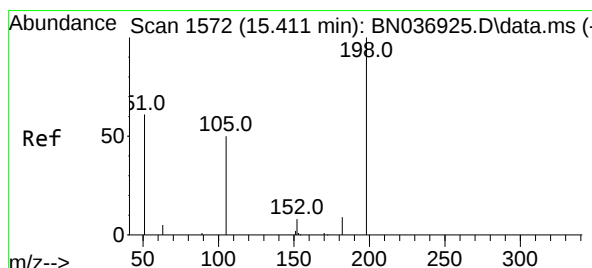
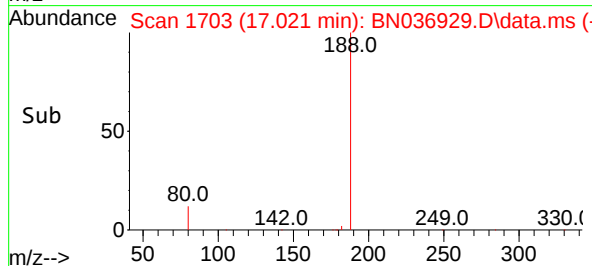
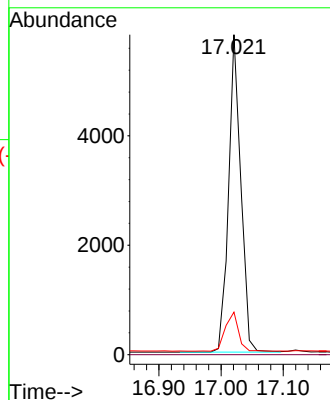
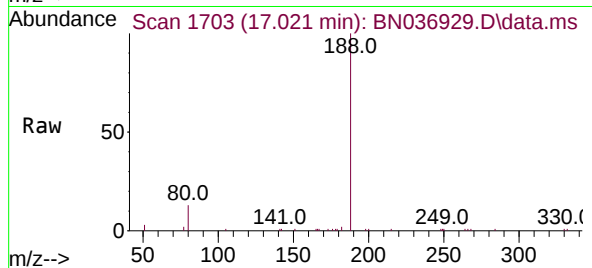
Tgt Ion:188 Resp: 7924

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 13.3 10.7 16.1



#20

4,6-Dinitro-2-methylphenol

Concen: 6.700 ng

RT: 15.410 min Scan# 1572

Delta R.T. -0.001 min

Lab File: BN036929.D

Acq: 28 Apr 2025 15:12

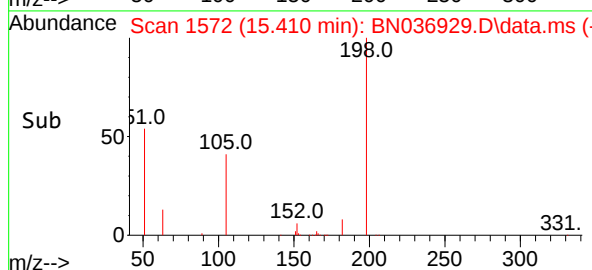
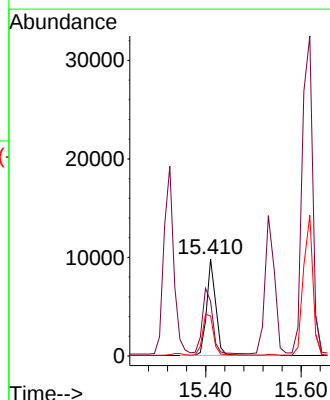
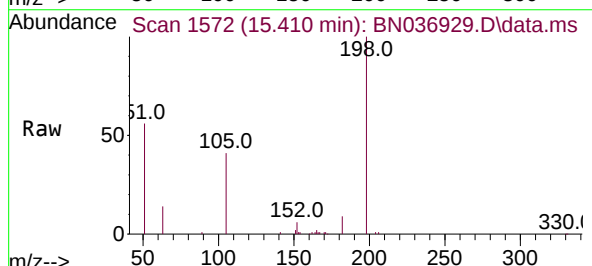
Tgt Ion:198 Resp: 13303

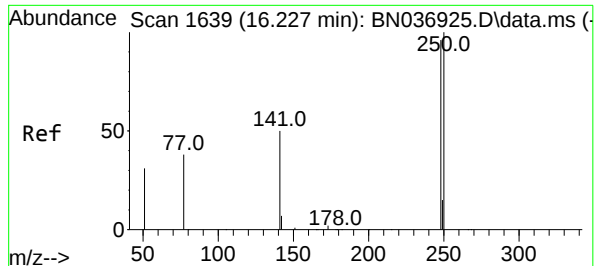
Ion Ratio Lower Upper

198 100

51 56.3 97.9 146.9#

105 41.2 50.0 75.0#

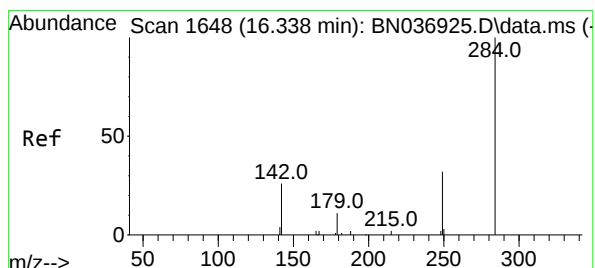
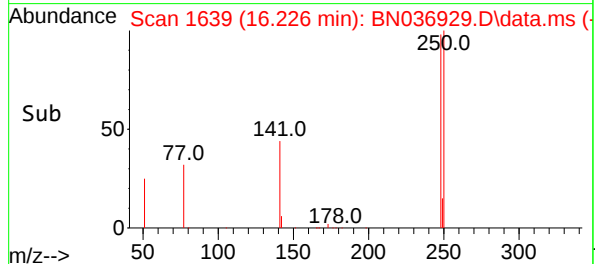
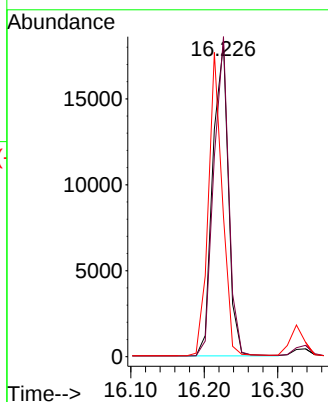
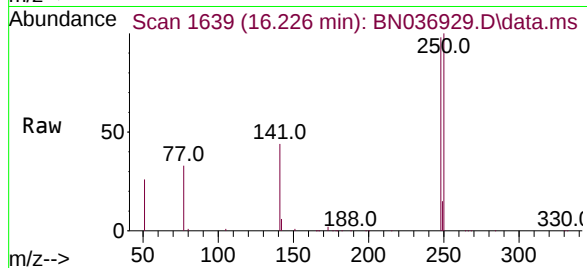




#21  
4-Bromophenyl-phenylether  
Concen: 5.074 ng  
RT: 16.226 min Scan# 1639  
Delta R.T. -0.001 min  
Lab File: BN036929.D  
Acq: 28 Apr 2025 15:12

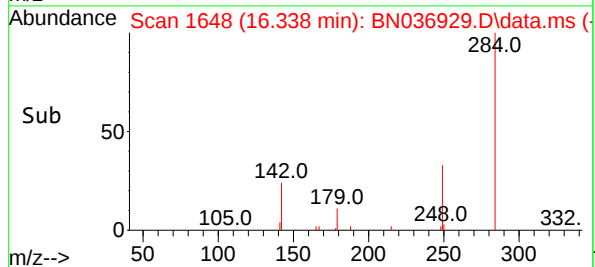
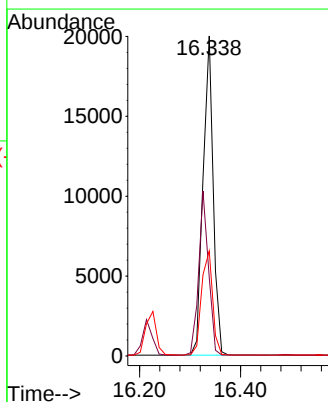
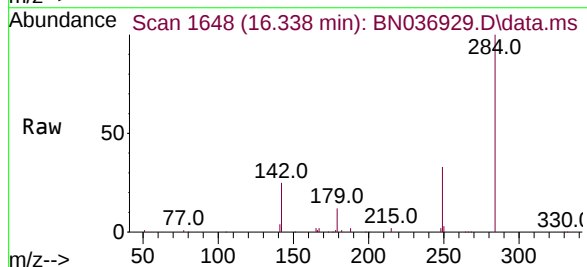
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

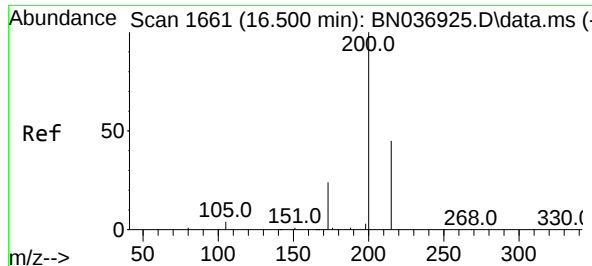
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 248     | 100   |       |       |
| 250     | 102.1 | 83.7  | 125.5 |
| 141     | 44.7  | 43.8  | 65.8  |



#22  
Hexachlorobenzene  
Concen: 4.793 ng  
RT: 16.338 min Scan# 1648  
Delta R.T. -0.001 min  
Lab File: BN036929.D  
Acq: 28 Apr 2025 15:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 284     | 100   |       |       |
| 142     | 49.9  | 40.0  | 60.0  |
| 249     | 35.8  | 28.2  | 42.2  |

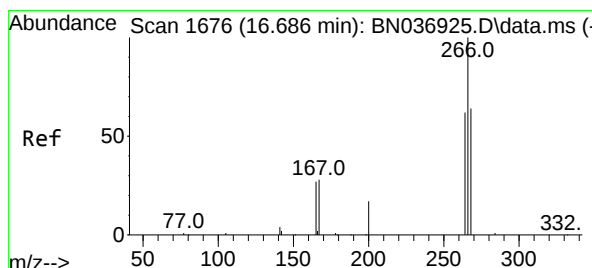
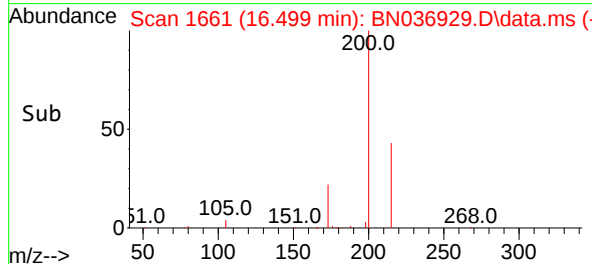
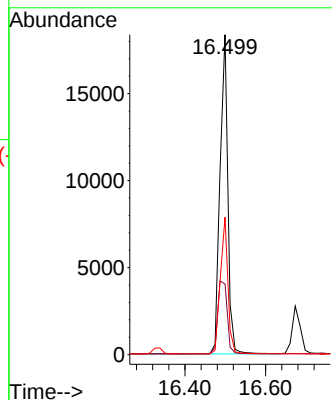
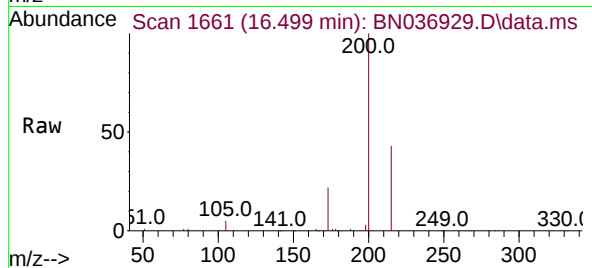




#23  
Atrazine  
Concen: 5.893 ng  
RT: 16.499 min Scan# 1661  
Delta R.T. -0.001 min  
Lab File: BN036929.D  
Acq: 28 Apr 2025 15:12

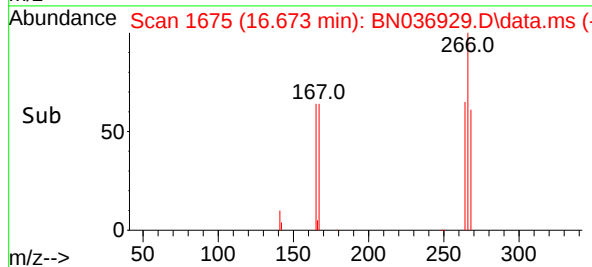
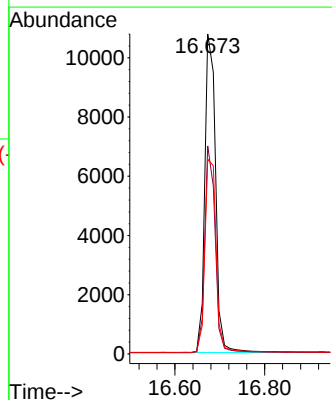
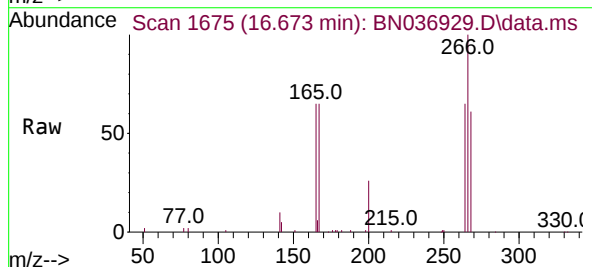
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

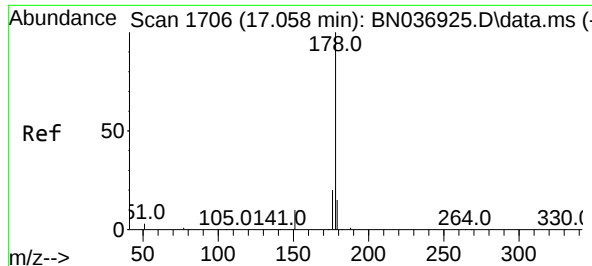
Tgt Ion:200 Resp: 24525  
Ion Ratio Lower Upper  
200 100  
173 22.1 22.4 33.6#  
215 42.9 38.6 57.8



#24  
Pentachlorophenol  
Concen: 5.937 ng  
RT: 16.673 min Scan# 1675  
Delta R.T. -0.013 min  
Lab File: BN036929.D  
Acq: 28 Apr 2025 15:12

Tgt Ion:266 Resp: 17963  
Ion Ratio Lower Upper  
266 100  
264 62.6 49.9 74.9  
268 63.3 52.2 78.4

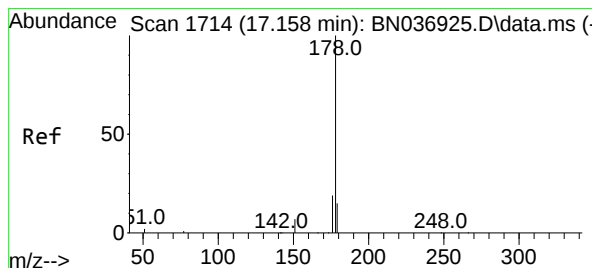
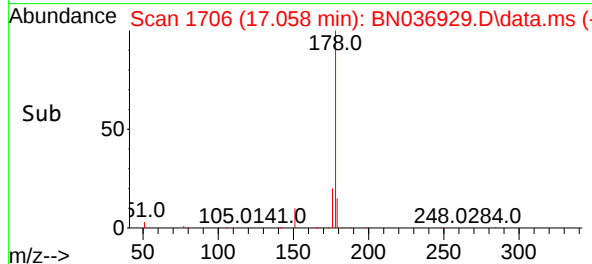
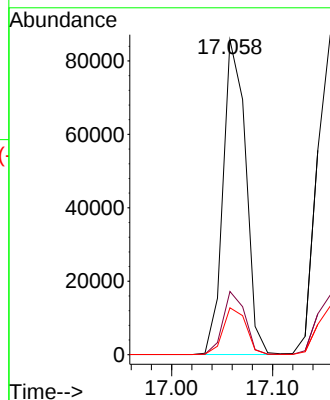
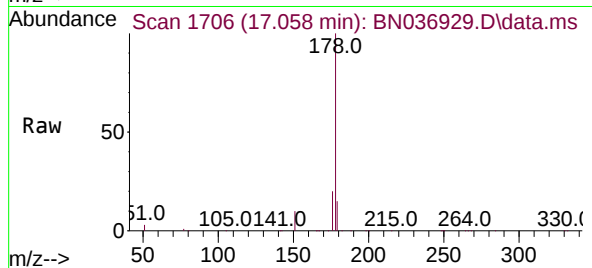




#25  
Phenanthrene  
Concen: 5.119 ng  
RT: 17.058 min Scan# 1706  
Delta R.T. -0.001 min  
Lab File: BN036929.D  
Acq: 28 Apr 2025 15:12

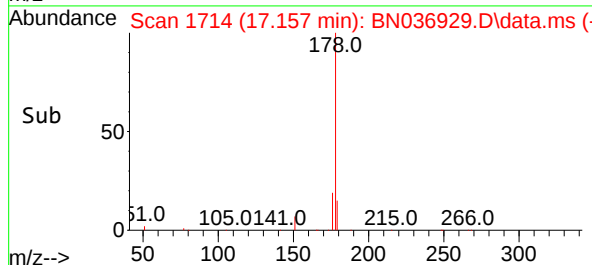
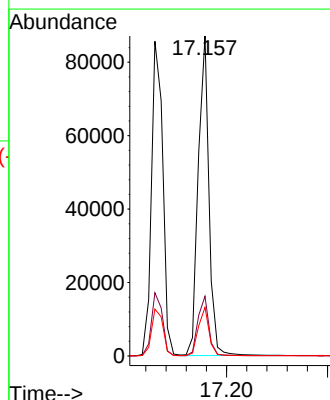
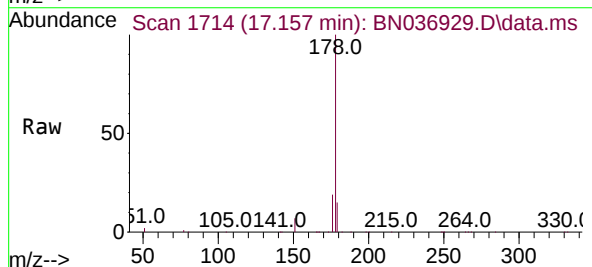
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

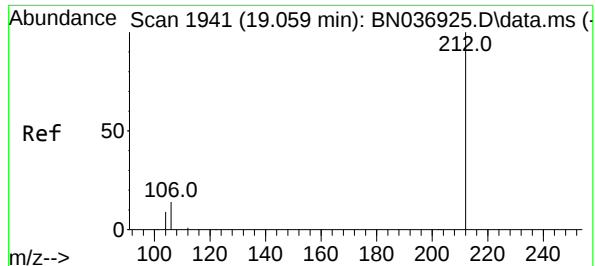
Tgt Ion:178 Resp: 133437  
Ion Ratio Lower Upper  
178 100  
176 19.5 15.7 23.5  
179 15.0 12.4 18.6



#26  
Anthracene  
Concen: 5.520 ng  
RT: 17.157 min Scan# 1714  
Delta R.T. -0.001 min  
Lab File: BN036929.D  
Acq: 28 Apr 2025 15:12

Tgt Ion:178 Resp: 128680  
Ion Ratio Lower Upper  
178 100  
176 19.0 15.3 22.9  
179 15.0 12.1 18.1





#27

Fluoranthene-d10

Concen: 5.447 ng

RT: 19.058 min Scan# 1941

Delta R.T. -0.000 min

Lab File: BN036929.D

Acq: 28 Apr 2025 15:12

Instrument :

BNA\_N

ClientSampleId :

SSTDICC5.0

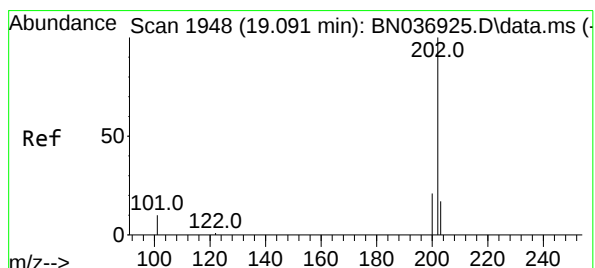
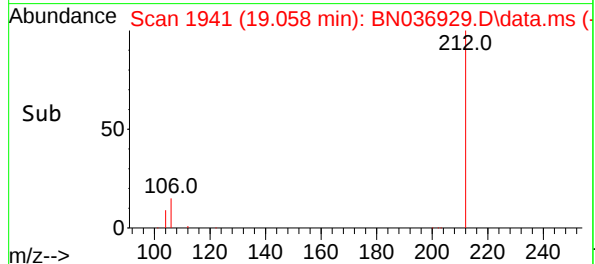
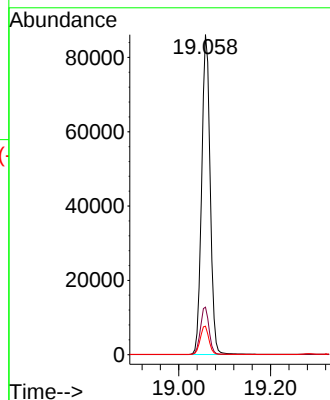
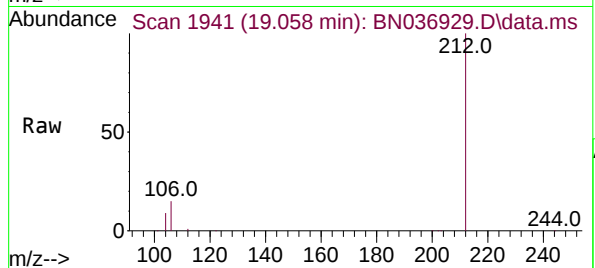
Tgt Ion:212 Resp: 110482

Ion Ratio Lower Upper

212 100

106 15.0 11.6 17.4

104 9.0 7.0 10.4



#28

Fluoranthene

Concen: 5.533 ng

RT: 19.091 min Scan# 1948

Delta R.T. -0.001 min

Lab File: BN036929.D

Acq: 28 Apr 2025 15:12

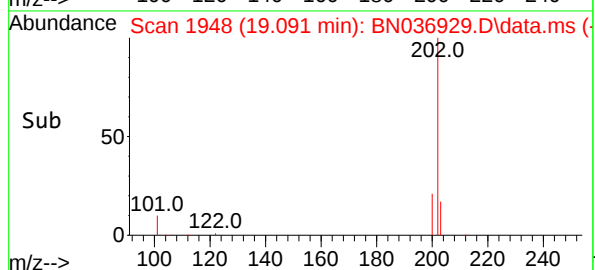
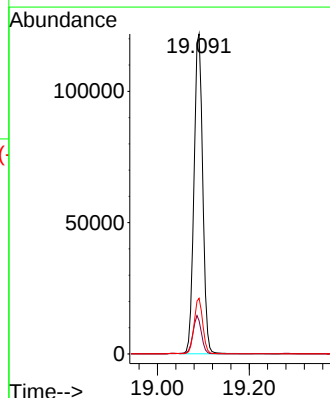
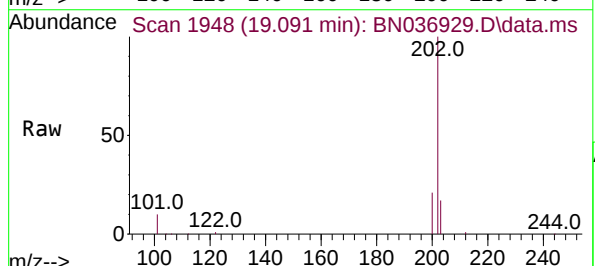
Tgt Ion:202 Resp: 159754

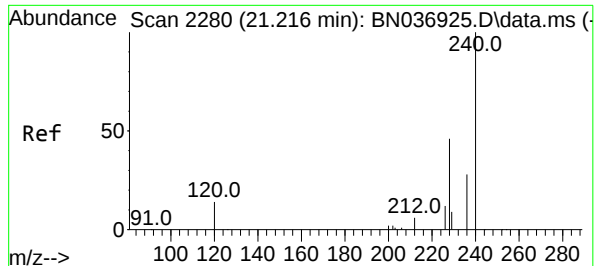
Ion Ratio Lower Upper

202 100

101 11.7 8.5 12.7

203 17.2 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.215 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036929.D

Acq: 28 Apr 2025 15:12

Instrument :

BNA\_N

ClientSampleId :

SSTDICC5.0

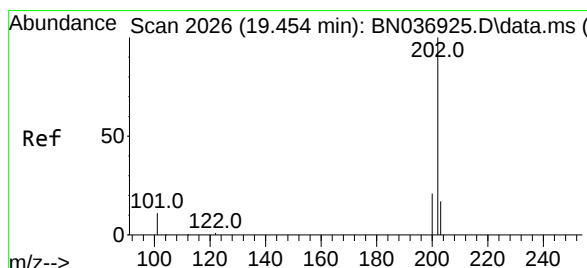
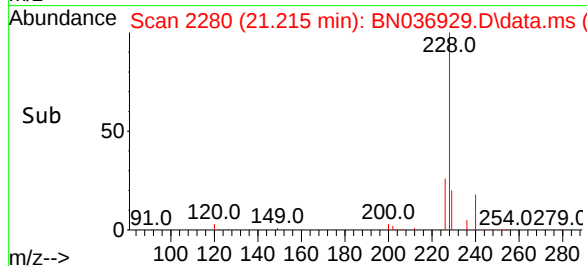
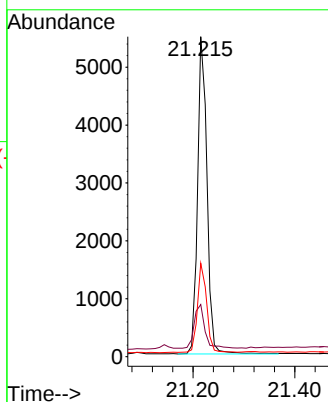
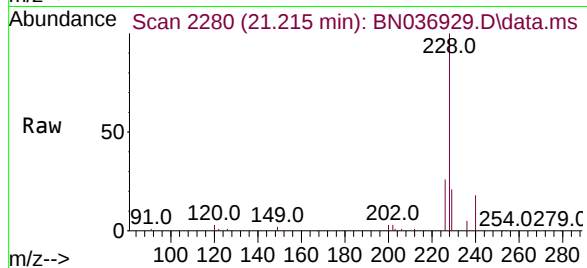
Tgt Ion:240 Resp: 7034

Ion Ratio Lower Upper

240 100

120 16.3 14.1 21.1

236 29.2 23.8 35.8



#30

Pyrene

Concen: 4.691 ng

RT: 19.453 min Scan# 2026

Delta R.T. -0.001 min

Lab File: BN036929.D

Acq: 28 Apr 2025 15:12

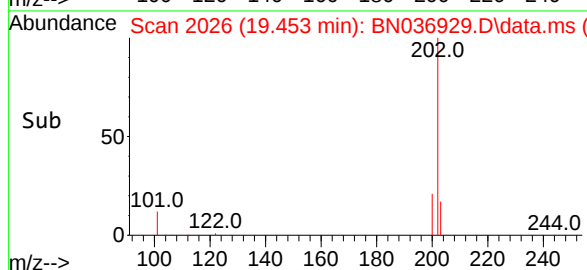
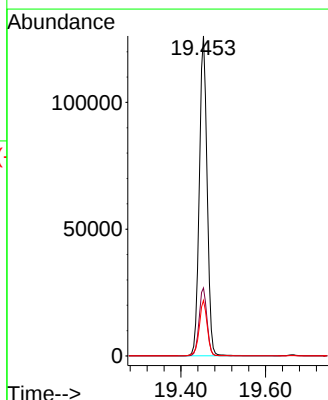
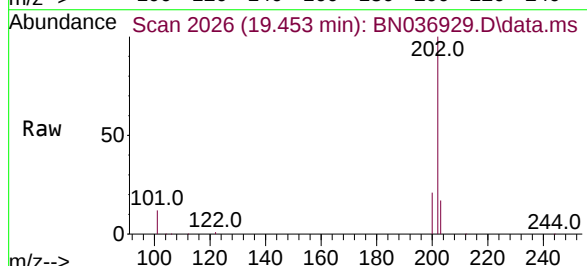
Tgt Ion:202 Resp: 160324

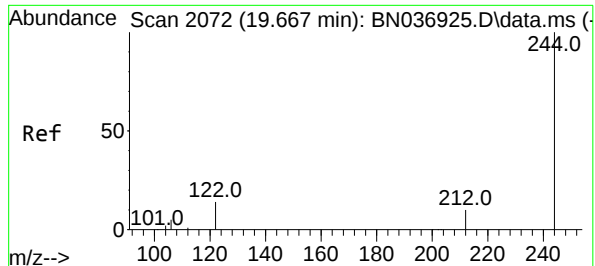
Ion Ratio Lower Upper

202 100

200 21.4 17.0 25.6

203 17.7 14.0 21.0

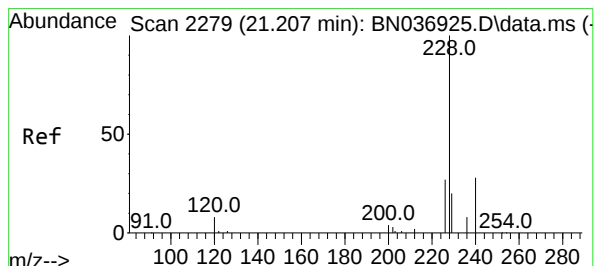
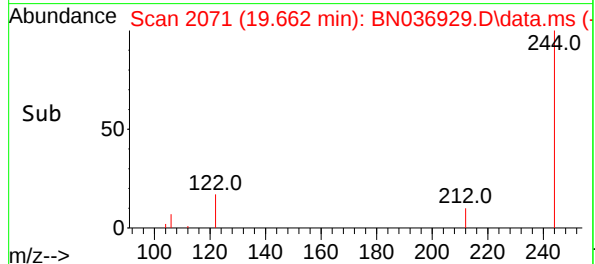
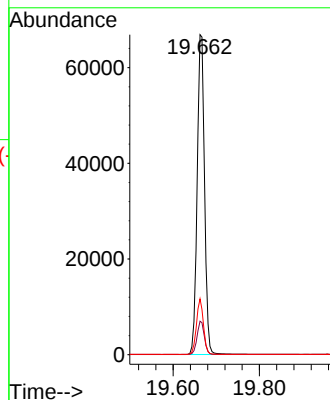
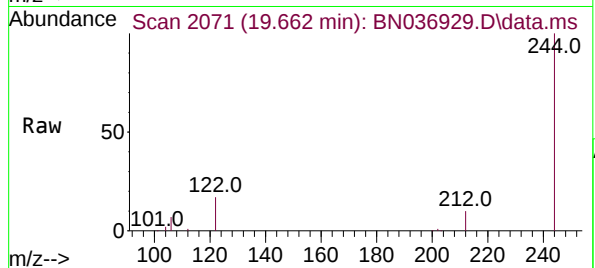




#31  
Terphenyl-d14  
Concen: 4.712 ng  
RT: 19.662 min Scan# 2071  
Delta R.T. -0.005 min  
Lab File: BN036929.D  
Acq: 28 Apr 2025 15:12

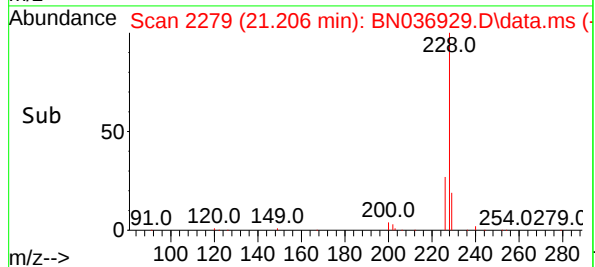
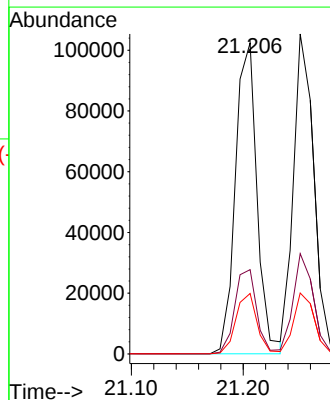
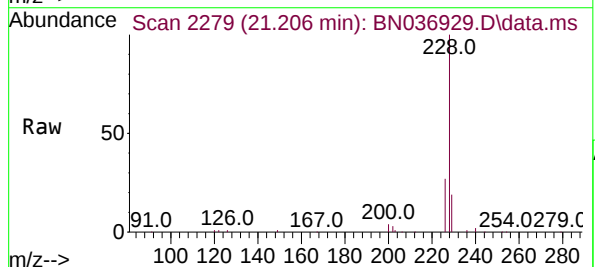
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

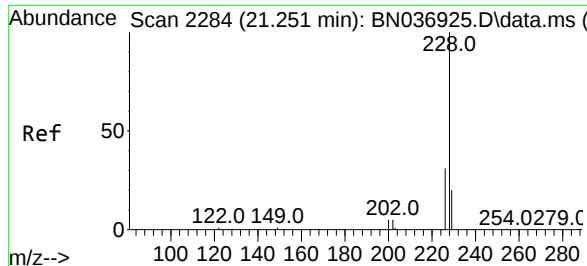
Tgt Ion:244 Resp: 78873  
Ion Ratio Lower Upper  
244 100  
212 10.5 9.6 14.4  
122 17.4 12.7 19.1



#32  
Benzo(a)anthracene  
Concen: 5.349 ng  
RT: 21.206 min Scan# 2279  
Delta R.T. -0.001 min  
Lab File: BN036929.D  
Acq: 28 Apr 2025 15:12

Tgt Ion:228 Resp: 137209  
Ion Ratio Lower Upper  
228 100  
226 27.1 22.2 33.4  
229 19.4 16.4 24.6





#33

Chrysene

Concen: 4.807 ng

RT: 21.251 min Scan# 21

Delta R.T. -0.001 min

Lab File: BN036929.D

Acq: 28 Apr 2025 15:12

Instrument :

BNA\_N

ClientSampleId :

SSTDICC5.0

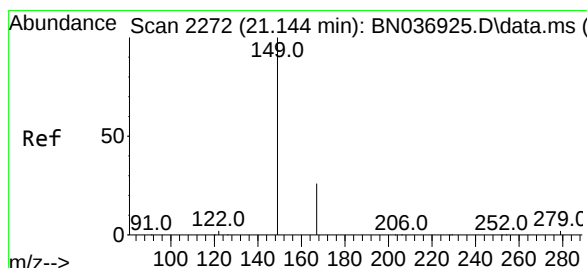
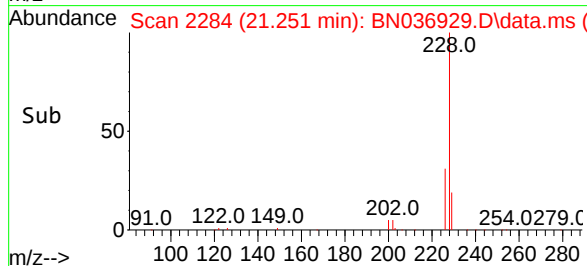
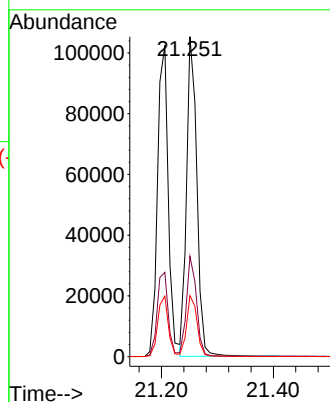
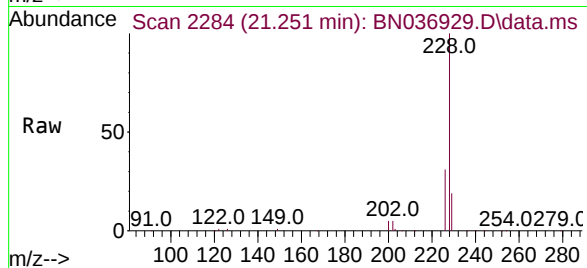
Tgt Ion:228 Resp: 135038

Ion Ratio Lower Upper

228 100

226 31.3 25.5 38.3

229 19.1 16.5 24.7



#34

Bis(2-ethylhexyl)phthalate

Concen: 5.194 ng

RT: 21.143 min Scan# 2272

Delta R.T. -0.001 min

Lab File: BN036929.D

Acq: 28 Apr 2025 15:12

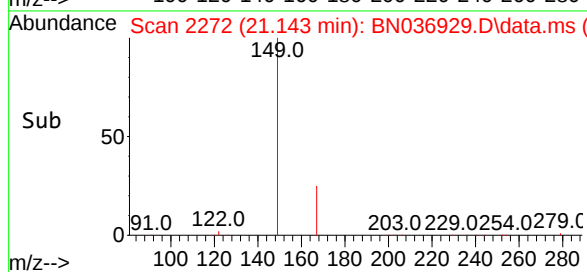
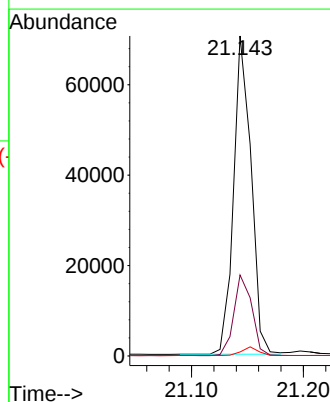
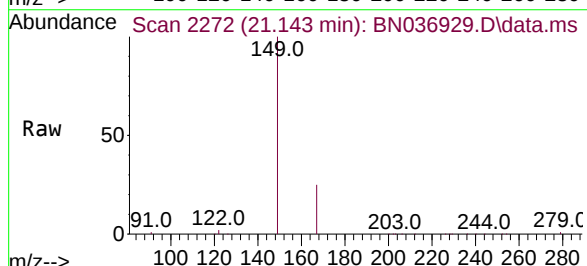
Tgt Ion:149 Resp: 76115

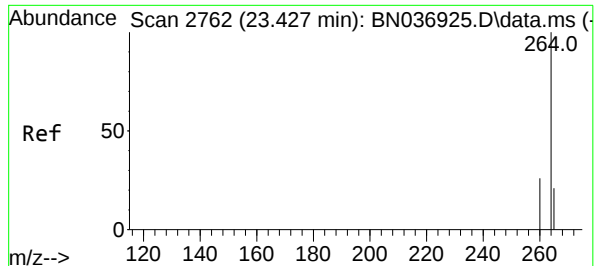
Ion Ratio Lower Upper

149 100

167 26.0 21.0 31.6

279 2.6 2.7 4.1#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.427 min Scan# 21

Delta R.T. -0.001 min

Lab File: BN036929.D

Acq: 28 Apr 2025 15:12

Instrument :

BNA\_N

ClientSampleId :

SSTDICC5.0

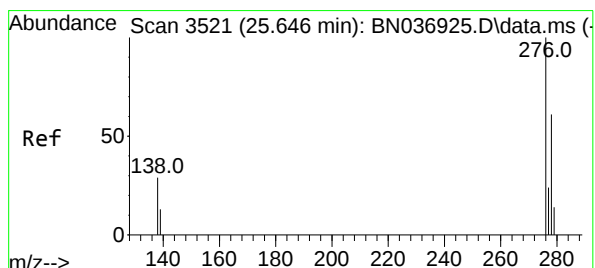
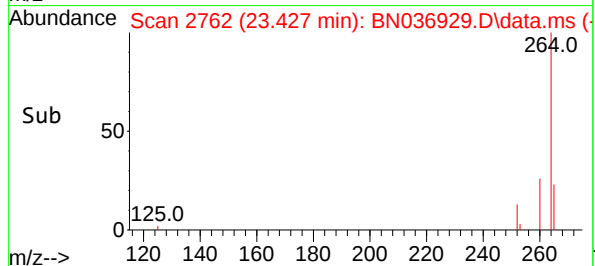
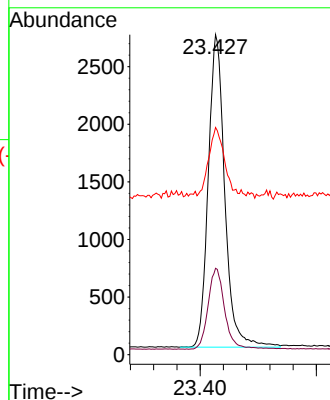
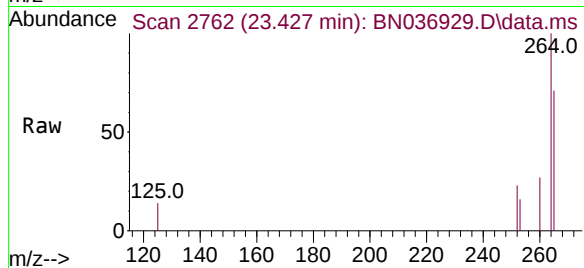
Tgt Ion:264 Resp: 5350

Ion Ratio Lower Upper

264 100

260 27.0 22.2 33.2

265 71.0 65.8 98.6



#36

Indeno(1,2,3-cd)pyrene

Concen: 4.911 ng

RT: 25.649 min Scan# 3522

Delta R.T. 0.002 min

Lab File: BN036929.D

Acq: 28 Apr 2025 15:12

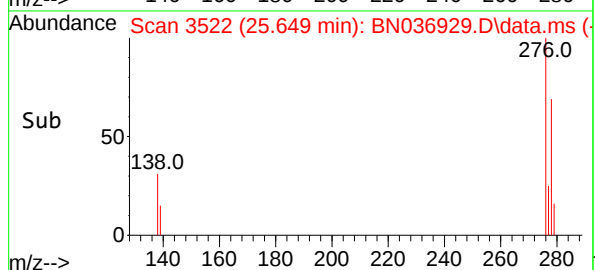
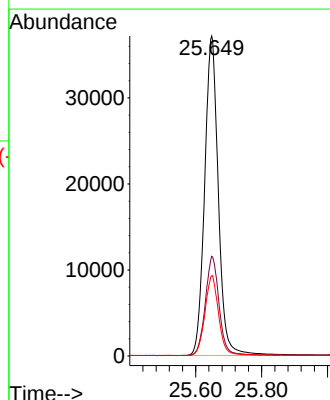
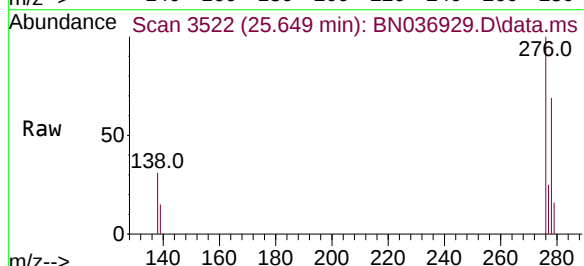
Tgt Ion:276 Resp: 107583

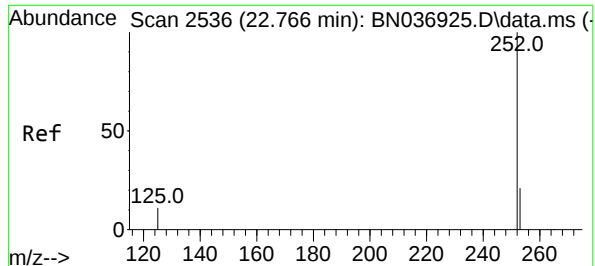
Ion Ratio Lower Upper

276 100

138 31.3 23.0 34.6

277 25.0 20.0 30.0

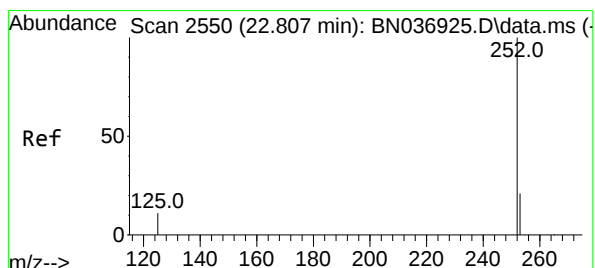
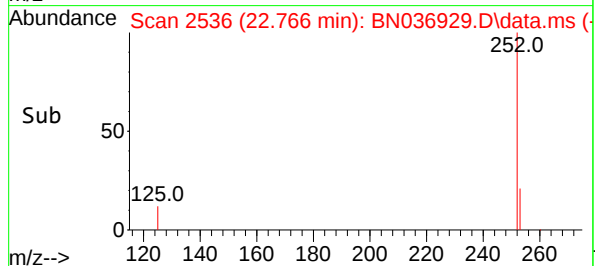
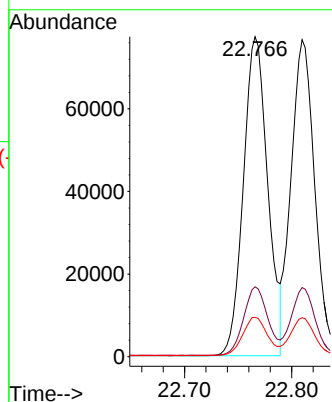
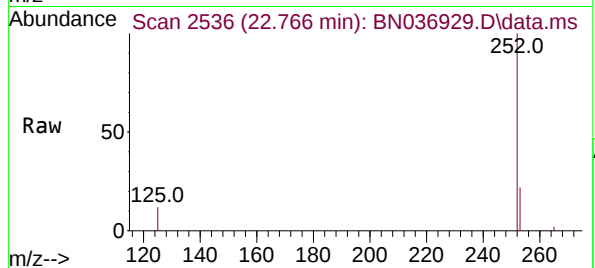




#37  
Benzo(b)fluoranthene  
Concen: 5.504 ng  
RT: 22.766 min Scan# 2536  
Delta R.T. -0.001 min  
Lab File: BN036929.D  
Acq: 28 Apr 2025 15:12

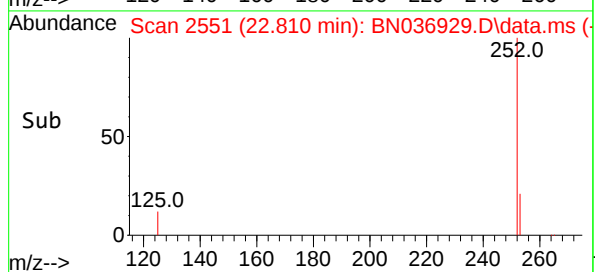
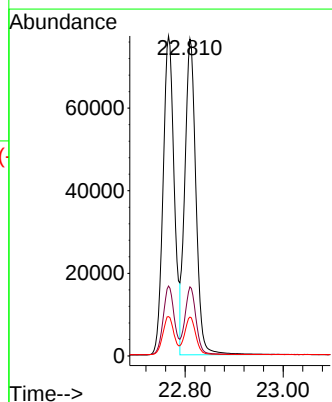
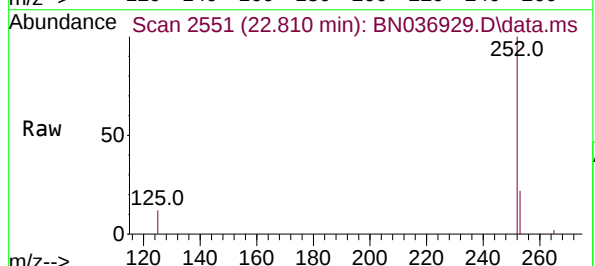
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

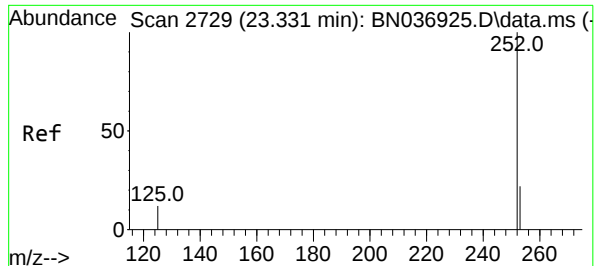
Tgt Ion:252 Resp: 122058  
Ion Ratio Lower Upper  
252 100  
253 21.9 22.1 33.1#  
125 12.3 14.2 21.2#



#38  
Benzo(k)fluoranthene  
Concen: 5.325 ng  
RT: 22.810 min Scan# 2551  
Delta R.T. 0.002 min  
Lab File: BN036929.D  
Acq: 28 Apr 2025 15:12

Tgt Ion:252 Resp: 119359  
Ion Ratio Lower Upper  
252 100  
253 21.8 22.8 34.2#  
125 12.3 14.2 21.2#





#39

Benzo(a)pyrene

Concen: 5.402 ng

RT: 23.333 min Scan# 21

Delta R.T. 0.002 min

Lab File: BN036929.D

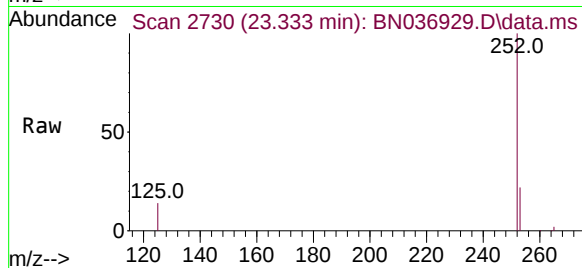
Acq: 28 Apr 2025 15:12

Instrument :

BNA\_N

ClientSampleId :

SSTDICC5.0



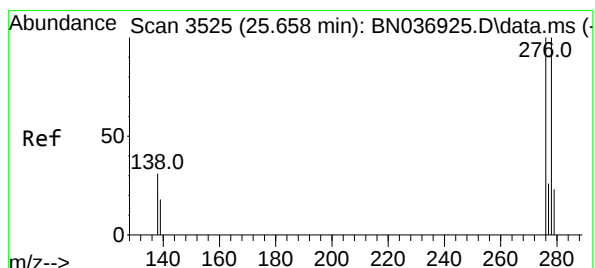
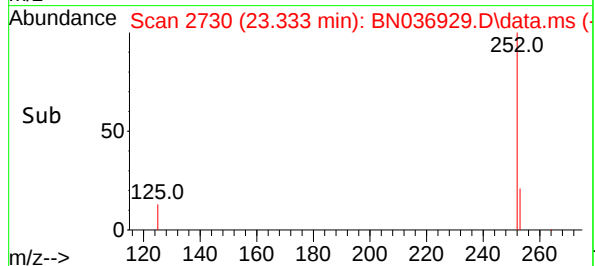
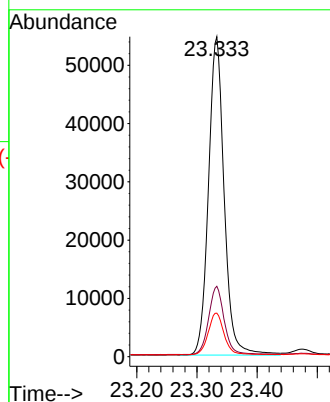
Tgt Ion:252 Resp: 98753

Ion Ratio Lower Upper

252 100

253 22.0 25.9 38.9#

125 13.6 17.4 26.0#



#40

Dibenzo(a,h)anthracene

Concen: 4.920 ng

RT: 25.660 min Scan# 3526

Delta R.T. 0.002 min

Lab File: BN036929.D

Acq: 28 Apr 2025 15:12

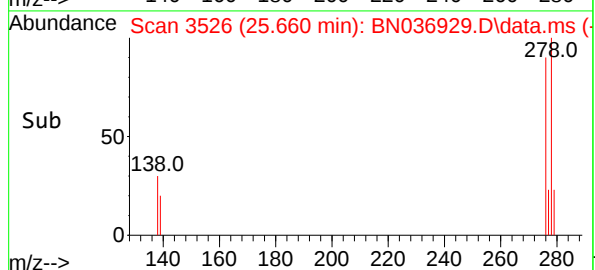
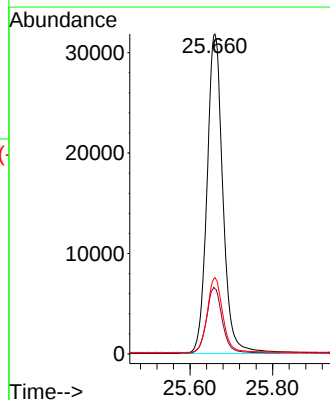
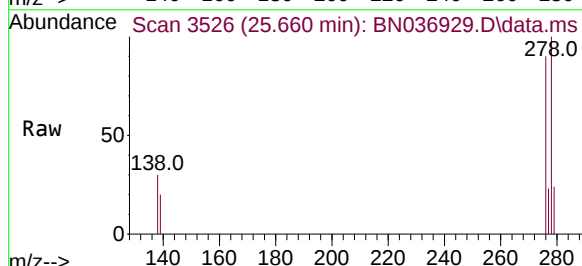
Tgt Ion:278 Resp: 84789

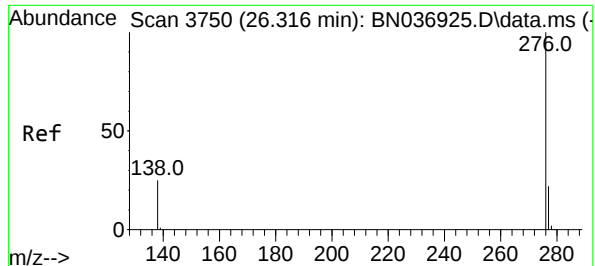
Ion Ratio Lower Upper

278 100

139 20.4 17.4 26.2

279 23.8 24.9 37.3#





#41

Benzo(g,h,i)perylene

Concen: 4.643 ng

RT: 26.324 min Scan# 31

Delta R.T. 0.008 min

Lab File: BN036929.D

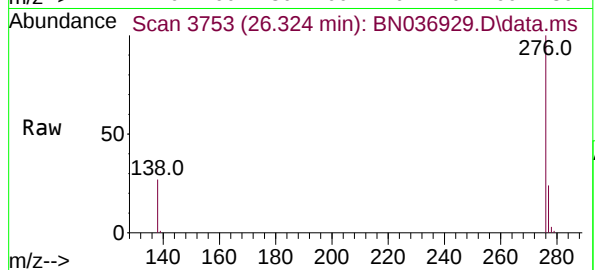
Acq: 28 Apr 2025 15:12

Instrument :

BNA\_N

ClientSampleId :

SSTDICC5.0



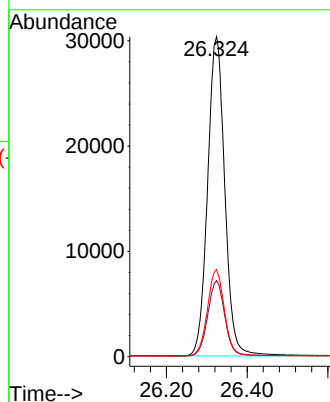
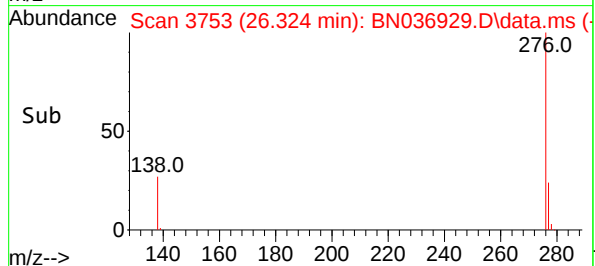
Tgt Ion:276 Resp: 89523

Ion Ratio Lower Upper

276 100

277 23.7 20.2 30.2

138 27.3 21.9 32.9



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN042825\  
 Data File : BN036930.D  
 Acq On : 28 Apr 2025 15:51  
 Operator : RC/JU  
 Sample : SSTDICV0.4  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 ICVBN042825

Quant Time: Apr 28 18:00:30 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN042825.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Apr 28 15:35:03 2025  
 Response via : Initial Calibration

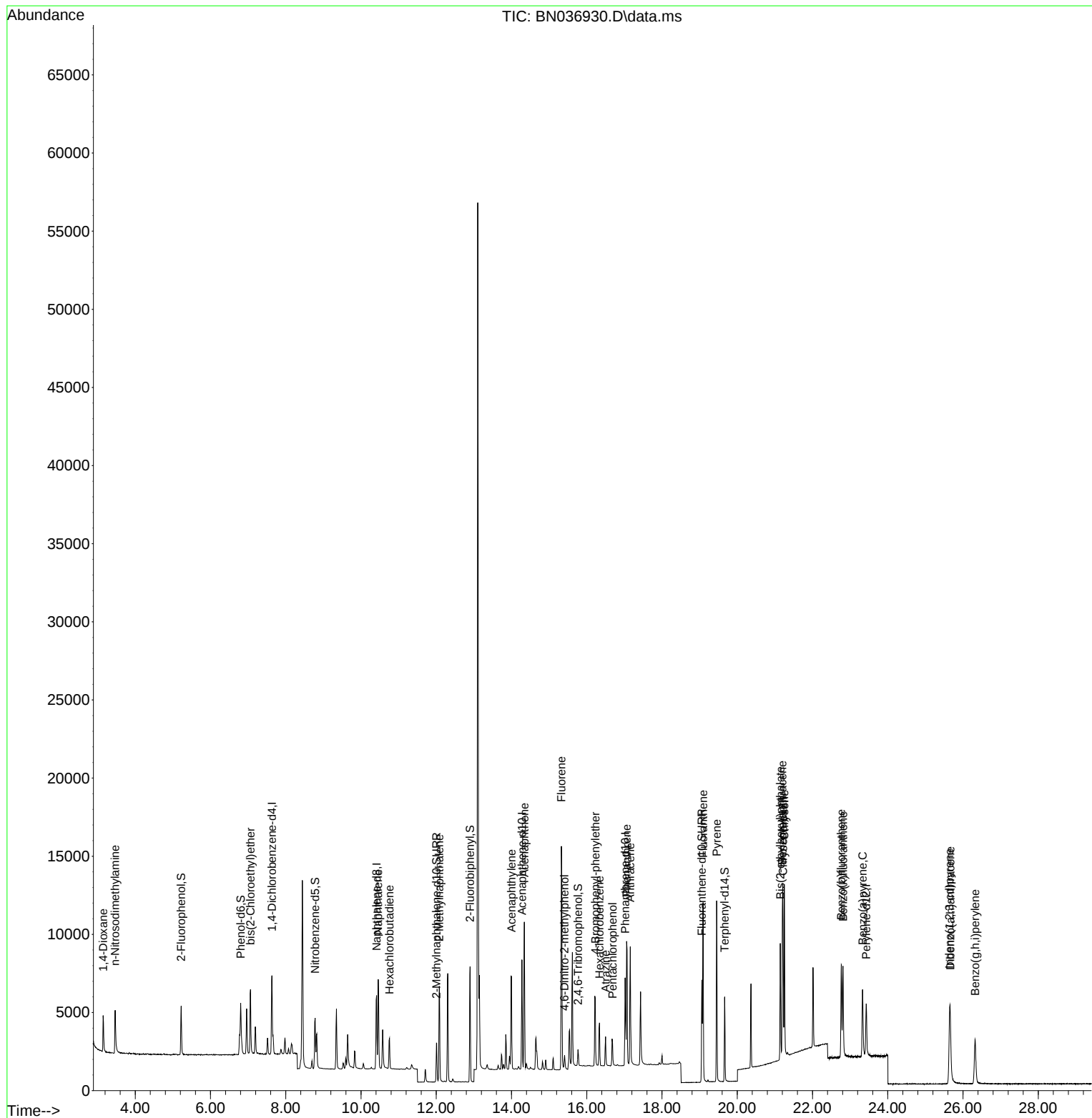
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.633  | 152  | 2409     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.415 | 136  | 6199     | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 14.277 | 164  | 3595     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 17.021 | 188  | 7165     | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 21.215 | 240  | 5561     | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.427 | 264  | 4453     | 0.400 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.220  | 112  | 2200     | 0.357 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.802  | 99   | 2639     | 0.348 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.781  | 82   | 2643     | 0.408 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 12.006 | 152  | 3565     | 0.411 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.767 | 330  | 524      | 0.327 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.898 | 172  | 6791     | 0.391 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 19.059 | 212  | 7362     | 0.396 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.667 | 244  | 5345     | 0.407 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
|                               |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.148  | 88   | 1307     | 0.435 | ng    | 96       |
| 3) n-Nitrosodimethylamine     | 3.465  | 42   | 2382     | 0.409 | ng    | # 98     |
| 6) bis(2-Chloroethyl)ether    | 7.062  | 93   | 2960     | 0.421 | ng    | 97       |
| 9) Naphthalene                | 10.458 | 128  | 7201     | 0.399 | ng    | 100      |
| 10) Hexachlorobutadiene       | 10.757 | 225  | 1616     | 0.414 | ng    | # 98     |
| 12) 2-Methylnaphthalene       | 12.082 | 142  | 4278     | 0.367 | ng    | 100      |
| 16) Acenaphthylene            | 13.999 | 152  | 7225     | 0.411 | ng    | 100      |
| 17) Acenaphthene              | 14.341 | 154  | 4406     | 0.382 | ng    | 100      |
| 18) Fluorene                  | 15.325 | 166  | 5893     | 0.390 | ng    | 100      |
| 20) 4,6-Dinitro-2-methylph... | 15.410 | 198  | 612      | 0.323 | ng    | 91       |
| 21) 4-Bromophenyl-phenylether | 16.227 | 248  | 1798     | 0.376 | ng    | 96       |
| 22) Hexachlorobenzene         | 16.338 | 284  | 2026     | 0.387 | ng    | 99       |
| 23) Atrazine                  | 16.500 | 200  | 1554     | 0.403 | ng    | 99       |
| 24) Pentachlorophenol         | 16.686 | 266  | 885      | 0.315 | ng    | 99       |
| 25) Phenanthrene              | 17.058 | 178  | 9212     | 0.390 | ng    | 100      |
| 26) Anthracene                | 17.157 | 178  | 8400     | 0.393 | ng    | 100      |
| 28) Fluoranthene              | 19.091 | 202  | 10081    | 0.380 | ng    | 99       |
| 30) Pyrene                    | 19.453 | 202  | 10076    | 0.376 | ng    | 100      |
| 32) Benzo(a)anthracene        | 21.197 | 228  | 8105     | 0.396 | ng    | 98       |
| 33) Chrysene                  | 21.251 | 228  | 8947     | 0.405 | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 21.144 | 149  | 4190     | 0.360 | ng    | 99       |
| 36) Indeno(1,2,3-cd)pyrene    | 25.640 | 276  | 6626     | 0.364 | ng    | 99       |
| 37) Benzo(b)fluoranthene      | 22.763 | 252  | 7283     | 0.389 | ng    | 99       |
| 38) Benzo(k)fluoranthene      | 22.810 | 252  | 7655     | 0.407 | ng    | 98       |
| 39) Benzo(a)pyrene            | 23.330 | 252  | 6417     | 0.417 | ng    | 97       |
| 40) Dibenzo(a,h)anthracene    | 25.663 | 278  | 5177     | 0.362 | ng    | 99       |
| 41) Benzo(g,h,i)perylene      | 26.321 | 276  | 5705     | 0.359 | ng    | 98       |
| -----                         |        |      |          |       |       |          |

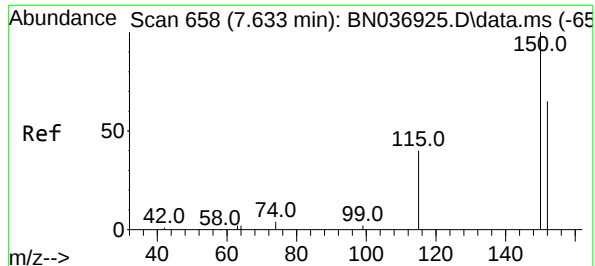
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN042825\  
Data File : BN036930.D  
Acq On : 28 Apr 2025 15:51  
Operator : RC/JU  
Sample : SSTDICV0.4  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN042825

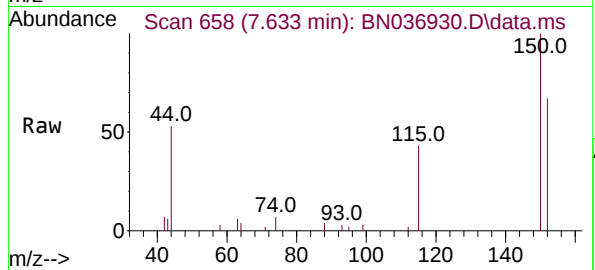
Quant Time: Apr 28 18:00:30 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN042825.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Apr 28 15:35:03 2025  
Response via : Initial Calibration



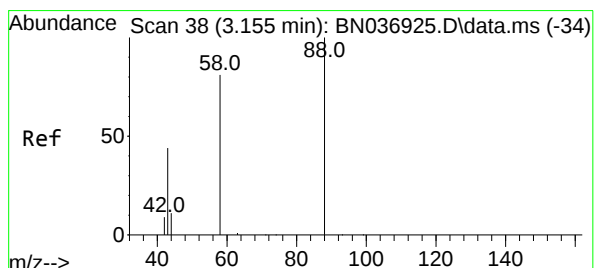
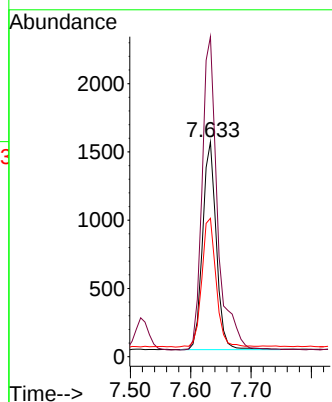


#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.633 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: BN036930.D  
Acq: 28 Apr 2025 15:51

Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN042825

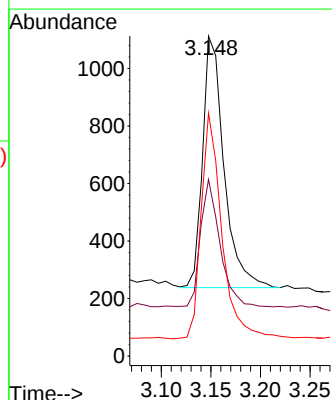
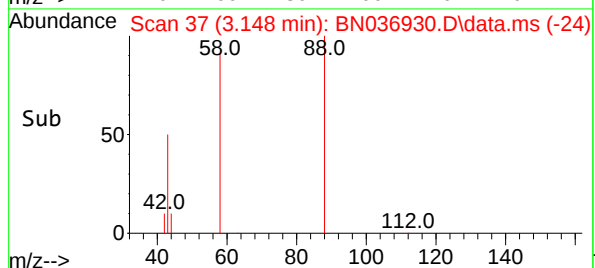
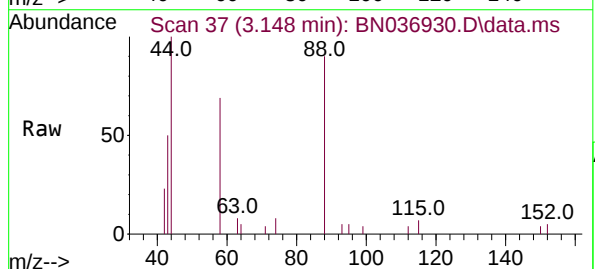


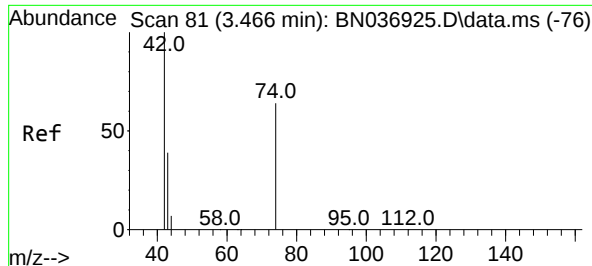
Tgt Ion: 152 Resp: 2409  
Ion Ratio Lower Upper  
152 100  
150 149.0 121.1 181.7  
115 64.5 51.8 77.6



#2  
1,4-Dioxane  
Concen: 0.435 ng  
RT: 3.148 min Scan# 37  
Delta R.T. -0.007 min  
Lab File: BN036930.D  
Acq: 28 Apr 2025 15:51

Tgt Ion: 88 Resp: 1307  
Ion Ratio Lower Upper  
88 100  
43 46.8 37.9 56.9  
58 87.2 65.8 98.6

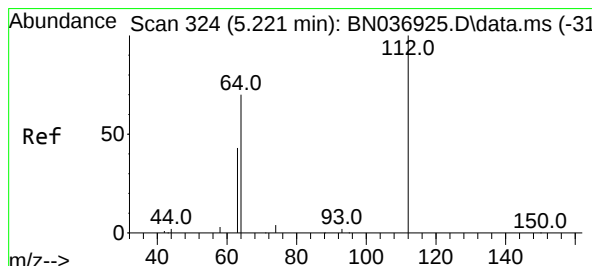
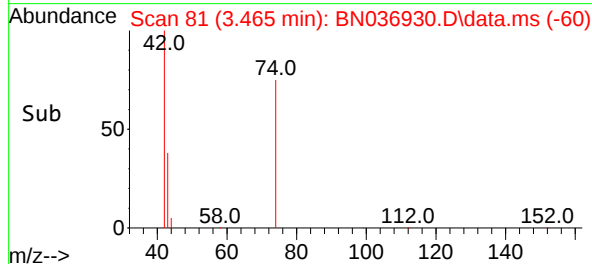
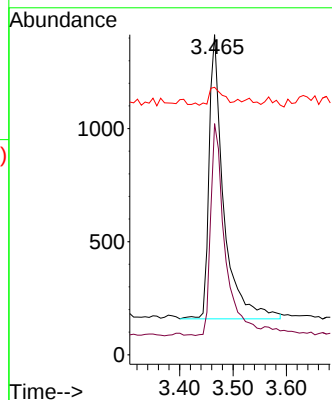
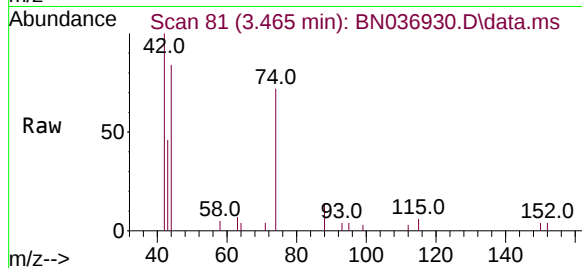




#3  
n-Nitrosodimethylamine  
Concen: 0.409 ng  
RT: 3.465 min Scan# 81  
Delta R.T. -0.000 min  
Lab File: BN036930.D  
Acq: 28 Apr 2025 15:51

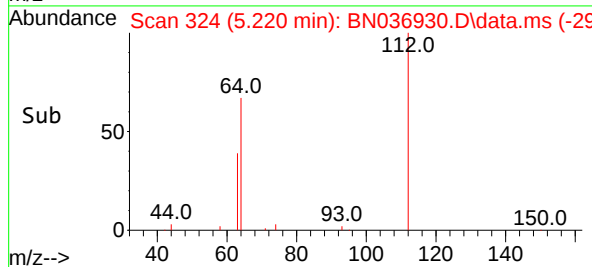
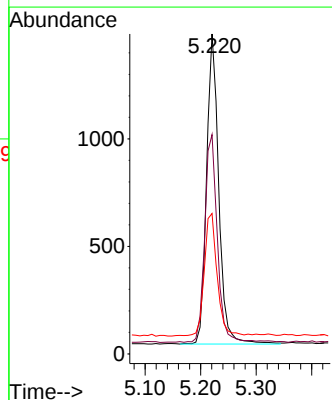
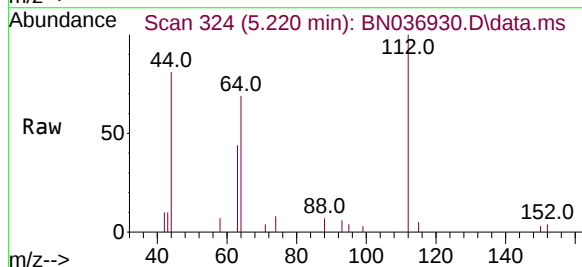
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN042825

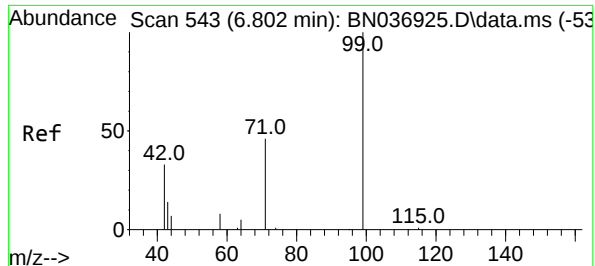
Tgt Ion: 42 Resp: 2382  
Ion Ratio Lower Upper  
42 100  
74 73.5 59.9 89.9  
44 6.3 7.5 11.3#



#4  
2-Fluorophenol  
Concen: 0.357 ng  
RT: 5.220 min Scan# 324  
Delta R.T. -0.000 min  
Lab File: BN036930.D  
Acq: 28 Apr 2025 15:51

Tgt Ion: 112 Resp: 2200  
Ion Ratio Lower Upper  
112 100  
64 69.0 55.7 83.5  
63 41.9 33.9 50.9

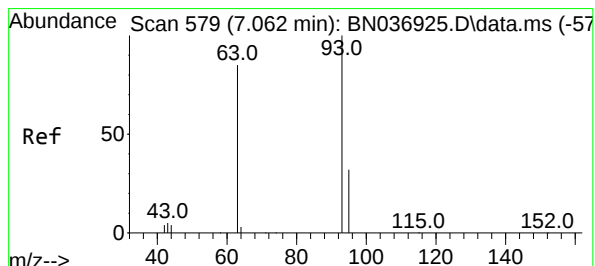
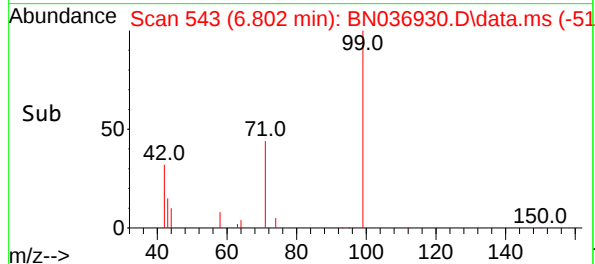
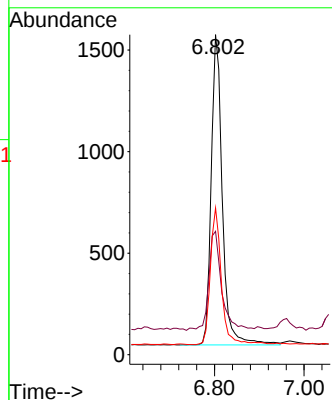
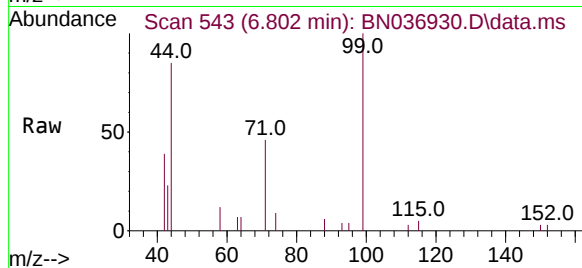




#5  
Phenol-d6  
Concen: 0.348 ng  
RT: 6.802 min Scan# 543  
Delta R.T. -0.000 min  
Lab File: BN036930.D  
Acq: 28 Apr 2025 15:51

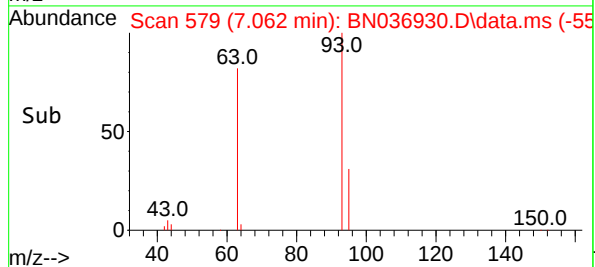
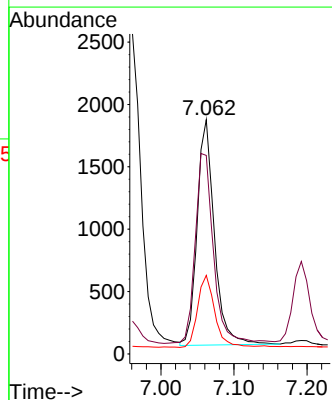
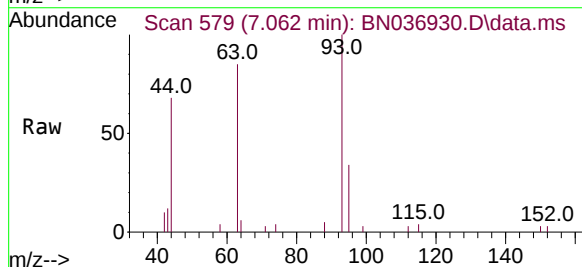
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN042825

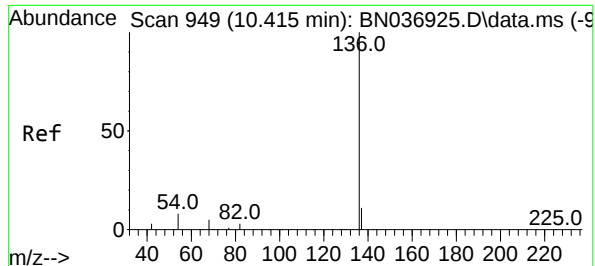
Tgt Ion: 99 Resp: 2639  
Ion Ratio Lower Upper  
99 100  
42 36.9 29.6 44.4  
71 43.1 36.0 54.0



#6  
bis(2-Chloroethyl)ether  
Concen: 0.421 ng  
RT: 7.062 min Scan# 579  
Delta R.T. -0.000 min  
Lab File: BN036930.D  
Acq: 28 Apr 2025 15:51

Tgt Ion: 93 Resp: 2960  
Ion Ratio Lower Upper  
93 100  
63 89.5 69.0 103.6  
95 31.8 25.4 38.0

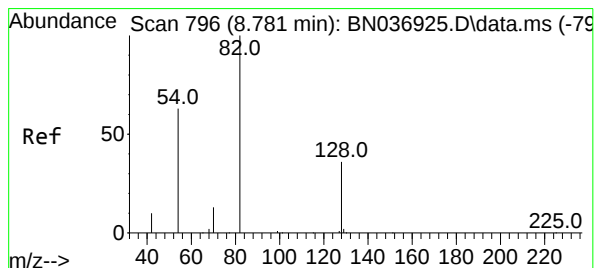
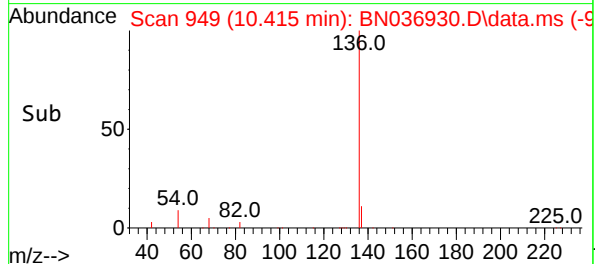
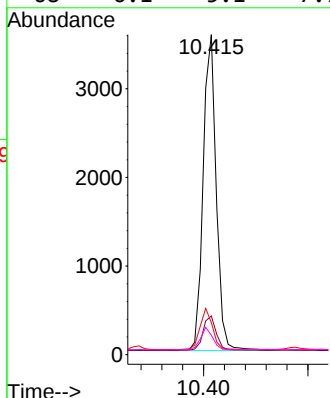
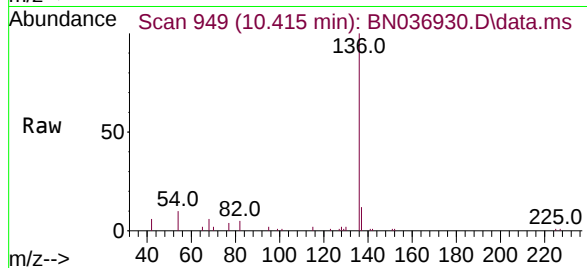




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.415 min Scan# 949  
Delta R.T. -0.000 min  
Lab File: BN036930.D  
Acq: 28 Apr 2025 15:51

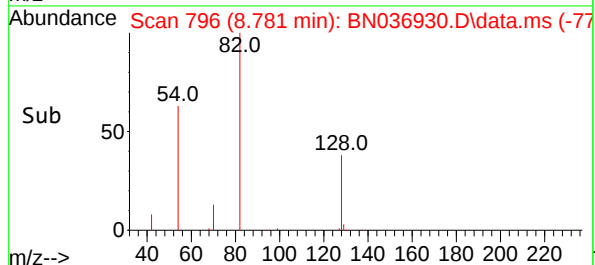
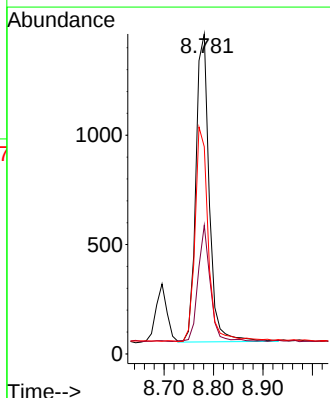
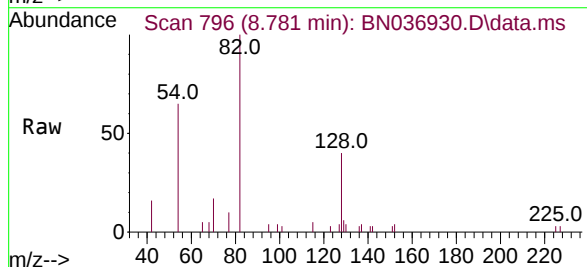
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN042825

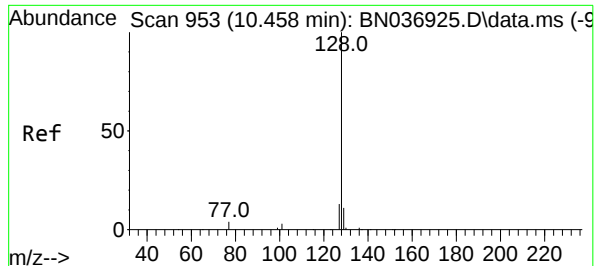
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 6199  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 12.1  | 9.7   | 14.5  |
| 54       | 10.1  | 8.0   | 12.0  |
| 68       | 6.1   | 5.1   | 7.7   |



#8  
Nitrobenzene-d5  
Concen: 0.408 ng  
RT: 8.781 min Scan# 796  
Delta R.T. -0.000 min  
Lab File: BN036930.D  
Acq: 28 Apr 2025 15:51

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 2643  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 40.2  | 30.7  | 46.1  |
| 54       | 64.7  | 52.1  | 78.1  |





#9

Naphthalene

Concen: 0.399 ng

RT: 10.458 min Scan# 91

Delta R.T. -0.000 min

Lab File: BN036930.D

Acq: 28 Apr 2025 15:51

Instrument :

BNA\_N

ClientSampleId :

ICVBN042825

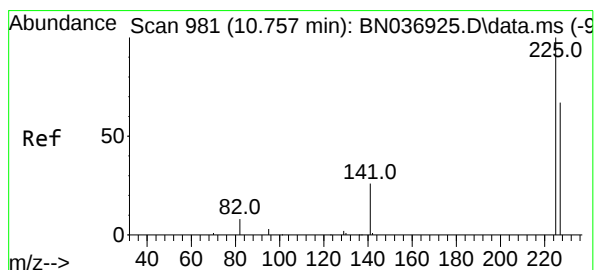
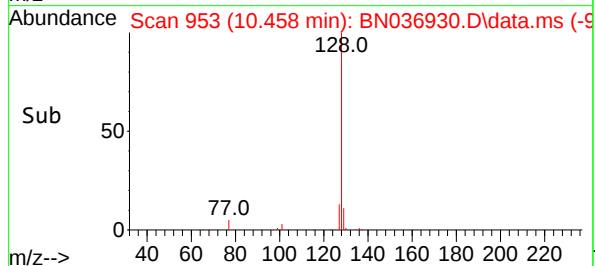
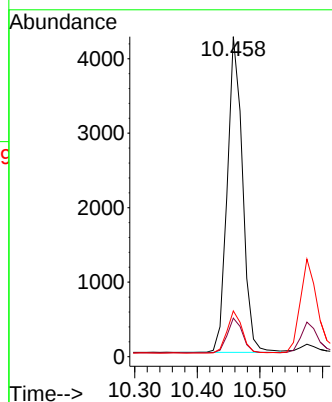
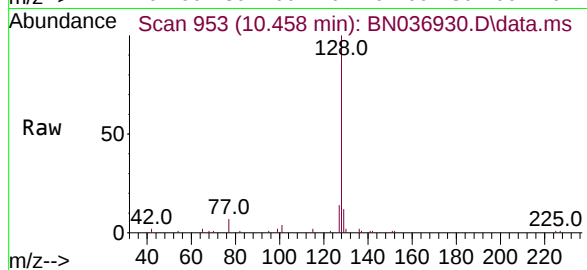
Tgt Ion:128 Resp: 7201

Ion Ratio Lower Upper

128 100

129 12.1 9.8 14.6

127 14.3 11.4 17.2



#10

Hexachlorobutadiene

Concen: 0.414 ng

RT: 10.757 min Scan# 981

Delta R.T. -0.000 min

Lab File: BN036930.D

Acq: 28 Apr 2025 15:51

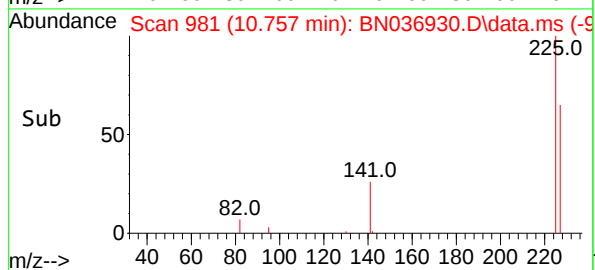
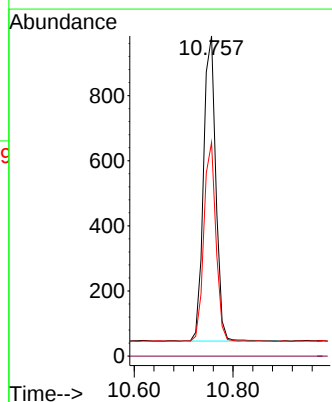
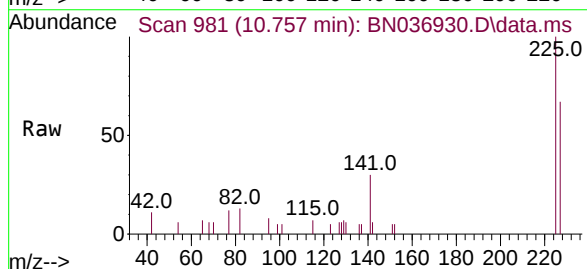
Tgt Ion:225 Resp: 1616

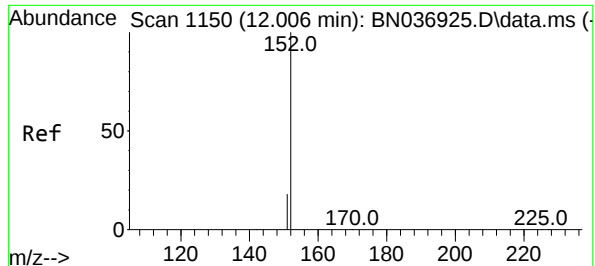
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 63.5 52.2 78.4

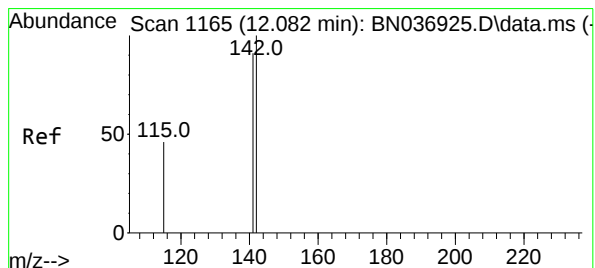
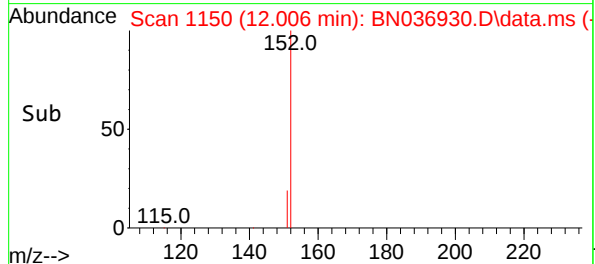
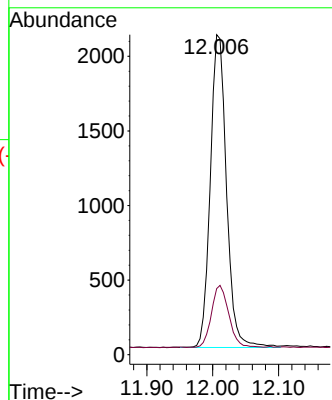
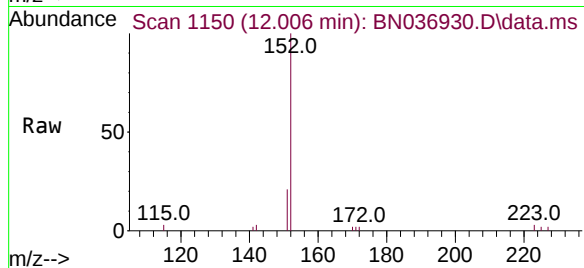




#11  
2-Methylnaphthalene-d10  
Concen: 0.411 ng  
RT: 12.006 min Scan# 1150  
Delta R.T. -0.000 min  
Lab File: BN036930.D  
Acq: 28 Apr 2025 15:51

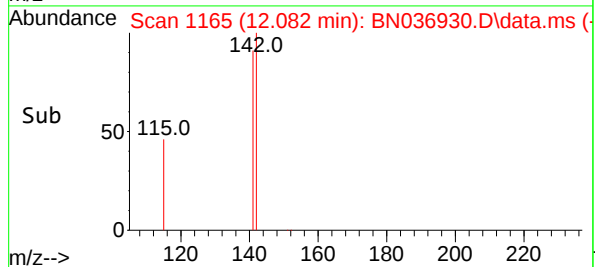
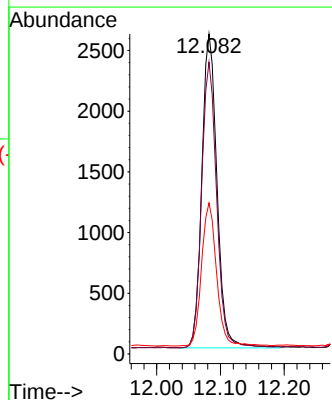
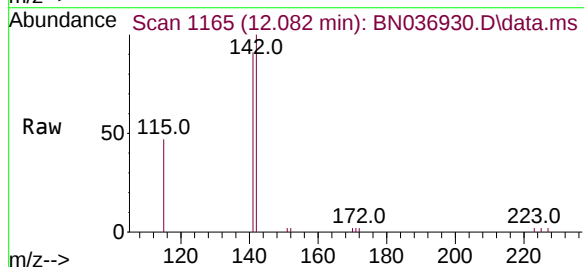
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN042825

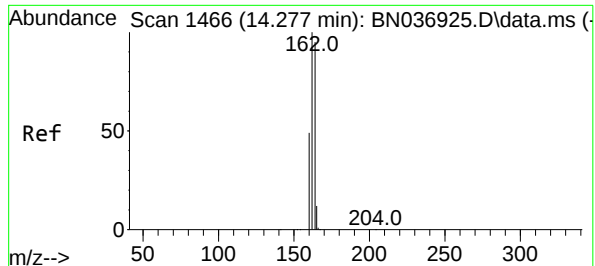
Tgt Ion:152 Resp: 3565  
Ion Ratio Lower Upper  
152 100  
151 21.3 16.9 25.3



#12  
2-Methylnaphthalene  
Concen: 0.367 ng  
RT: 12.082 min Scan# 1165  
Delta R.T. -0.000 min  
Lab File: BN036930.D  
Acq: 28 Apr 2025 15:51

Tgt Ion:142 Resp: 4278  
Ion Ratio Lower Upper  
142 100  
141 91.2 72.8 109.2  
115 47.2 38.2 57.4

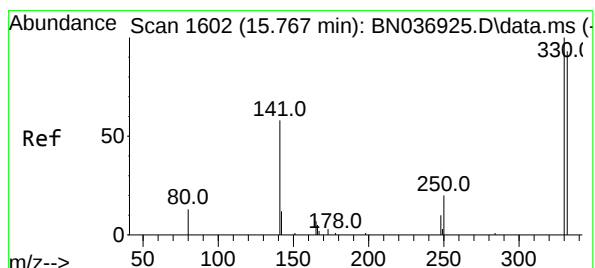
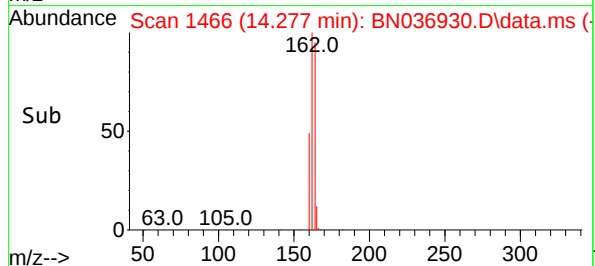
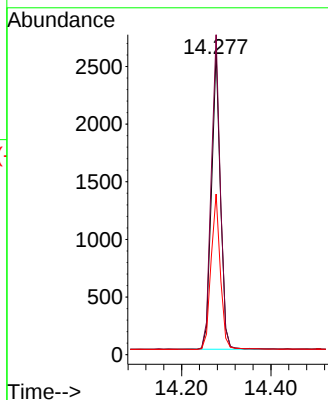
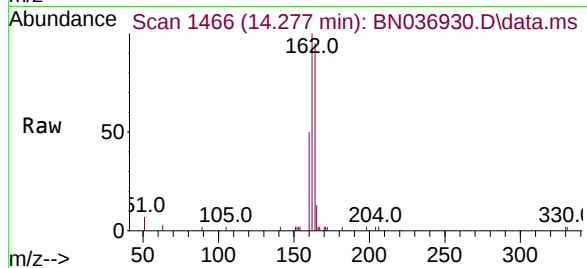




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.277 min Scan# 1466  
Delta R.T. -0.000 min  
Lab File: BN036930.D  
Acq: 28 Apr 2025 15:51

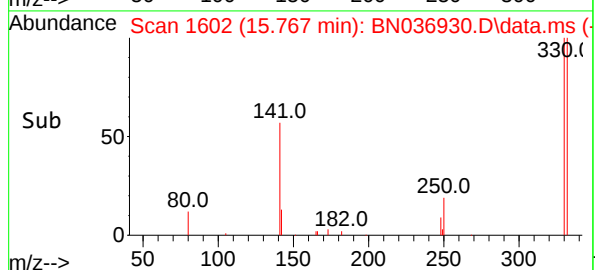
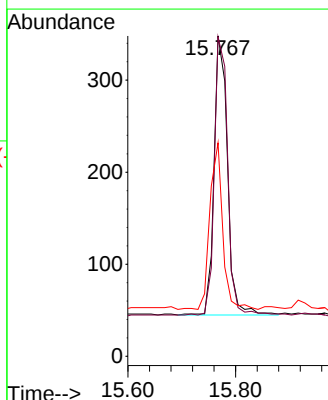
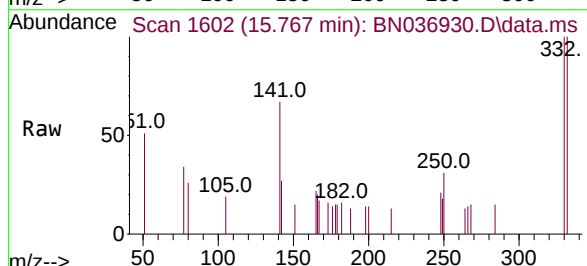
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN042825

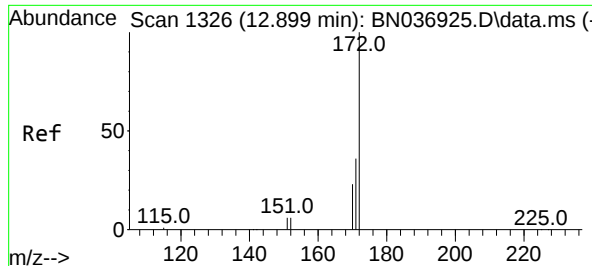
Tgt Ion:164 Resp: 3595  
Ion Ratio Lower Upper  
164 100  
162 105.4 83.8 125.8  
160 52.9 42.0 63.0



#14  
2,4,6-Tribromophenol  
Concen: 0.327 ng  
RT: 15.767 min Scan# 1602  
Delta R.T. -0.000 min  
Lab File: BN036930.D  
Acq: 28 Apr 2025 15:51

Tgt Ion:330 Resp: 524  
Ion Ratio Lower Upper  
330 100  
332 98.9 76.3 114.5  
141 56.5 45.4 68.2

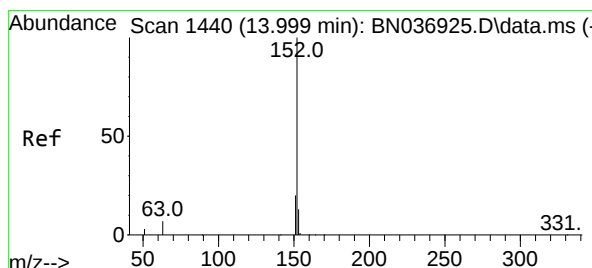
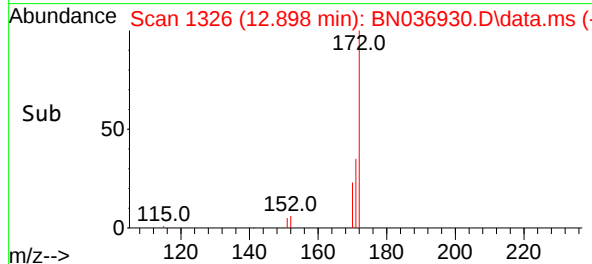
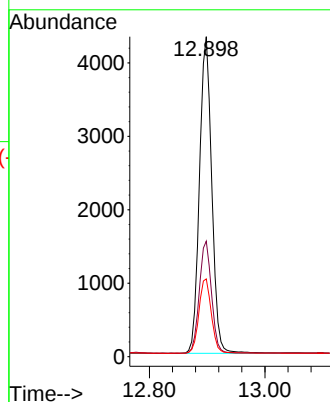
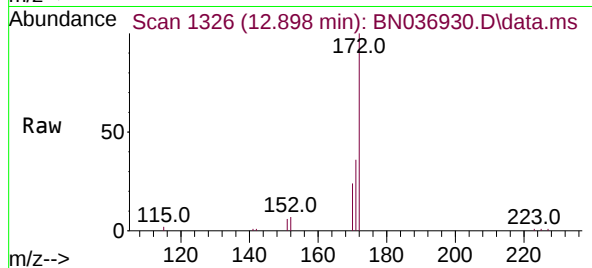




#15  
2-Fluorobiphenyl  
Concen: 0.391 ng  
RT: 12.898 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: BN036930.D  
Acq: 28 Apr 2025 15:51

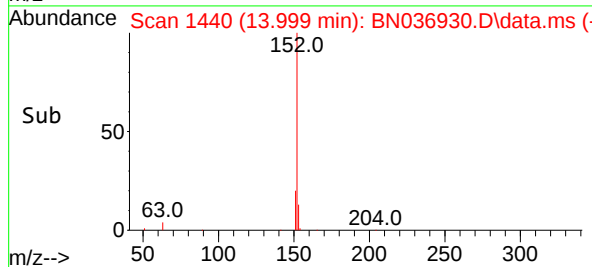
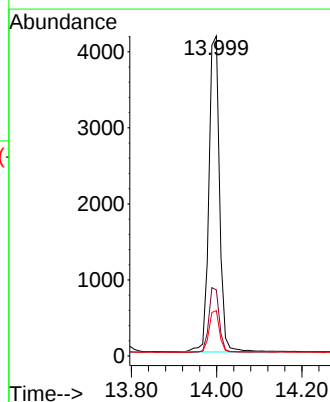
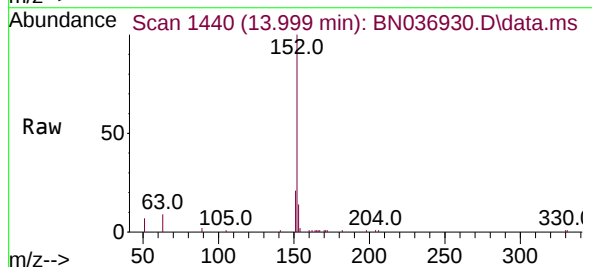
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN042825

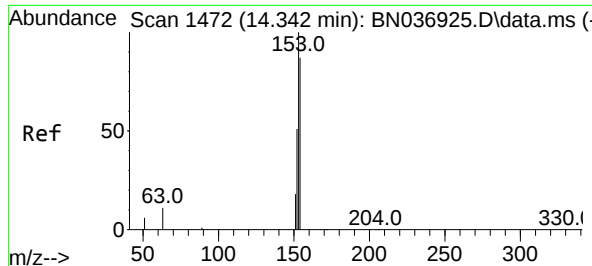
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.1  | 29.4  | 44.0  |
| 170     | 24.3  | 19.4  | 29.0  |



#16  
Acenaphthylene  
Concen: 0.411 ng  
RT: 13.999 min Scan# 1440  
Delta R.T. -0.000 min  
Lab File: BN036930.D  
Acq: 28 Apr 2025 15:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 20.1  | 16.0  | 24.0  |
| 153     | 13.0  | 10.2  | 15.2  |

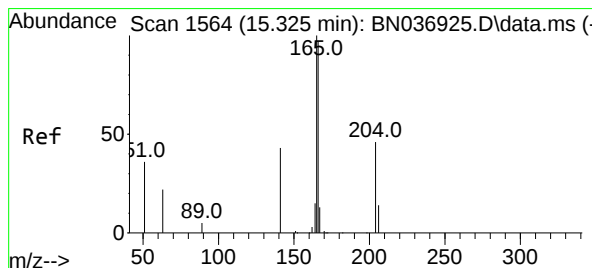
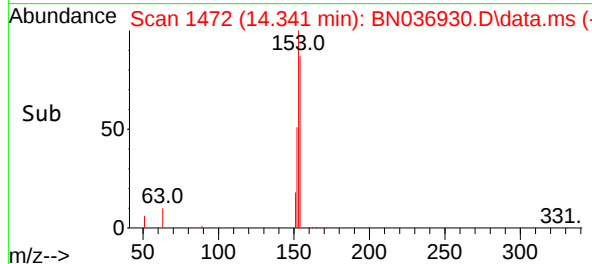
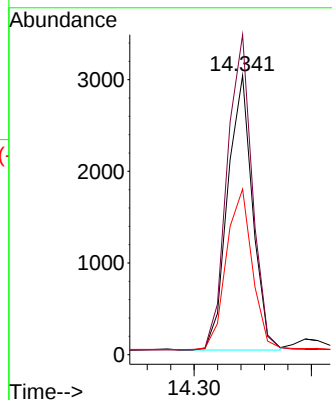
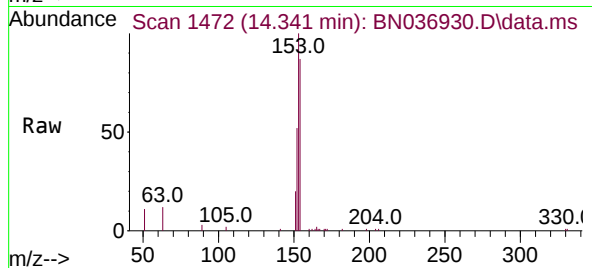




#17  
Acenaphthene  
Concen: 0.382 ng  
RT: 14.341 min Scan# 1472  
Delta R.T. -0.000 min  
Lab File: BN036930.D  
Acq: 28 Apr 2025 15:51

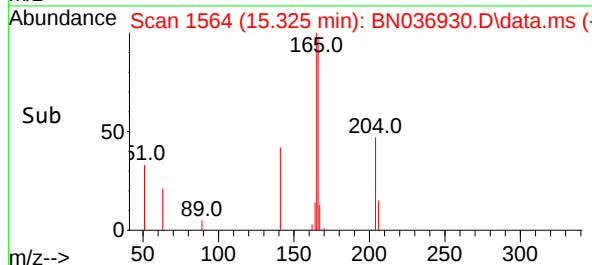
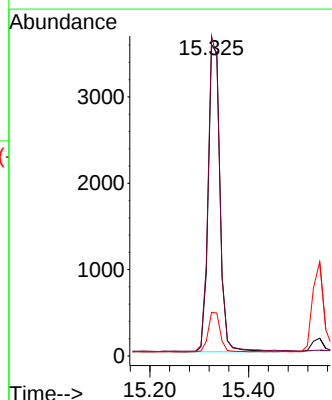
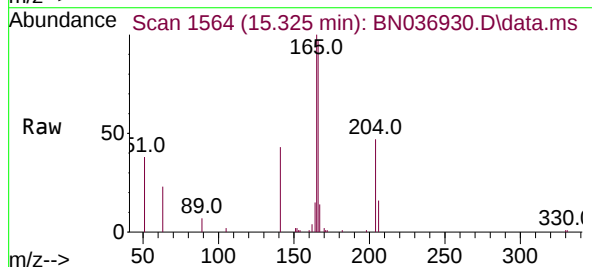
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN042825

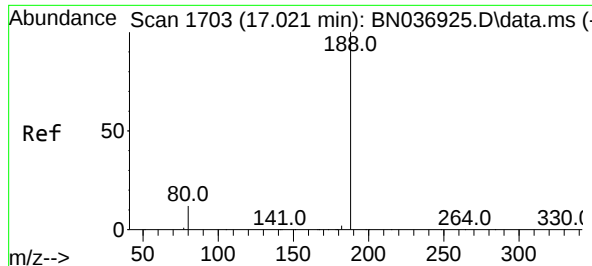
Tgt Ion:154 Resp: 4406  
Ion Ratio Lower Upper  
154 100  
153 116.8 93.4 140.2  
152 61.9 49.5 74.3



#18  
Fluorene  
Concen: 0.390 ng  
RT: 15.325 min Scan# 1564  
Delta R.T. -0.000 min  
Lab File: BN036930.D  
Acq: 28 Apr 2025 15:51

Tgt Ion:166 Resp: 5893  
Ion Ratio Lower Upper  
166 100  
165 100.7 80.8 121.2  
167 13.3 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.021 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN036930.D

Acq: 28 Apr 2025 15:51

Instrument :

BNA\_N

ClientSampleId :

ICVBN042825

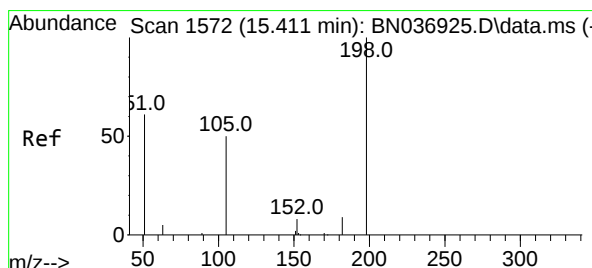
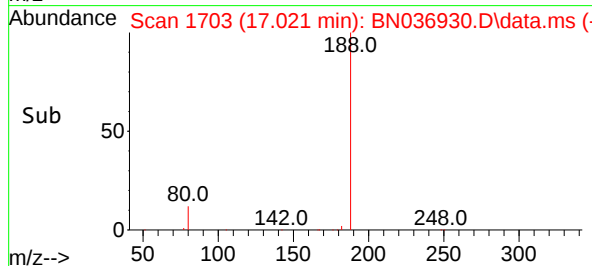
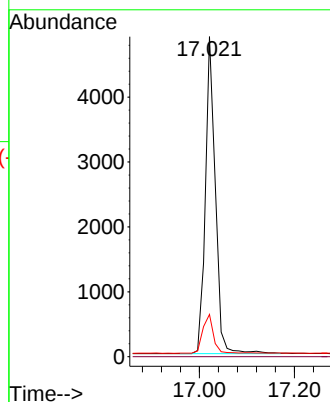
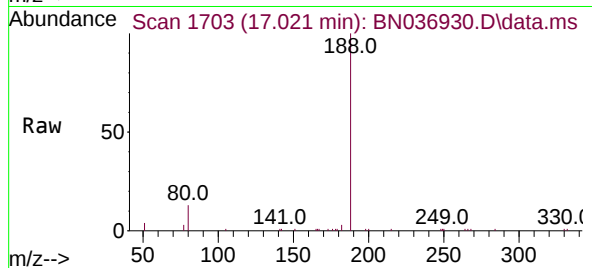
Tgt Ion:188 Resp: 7165

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 13.2 10.7 16.1



#20

4,6-Dinitro-2-methylphenol

Concen: 0.323 ng

RT: 15.410 min Scan# 1572

Delta R.T. -0.001 min

Lab File: BN036930.D

Acq: 28 Apr 2025 15:51

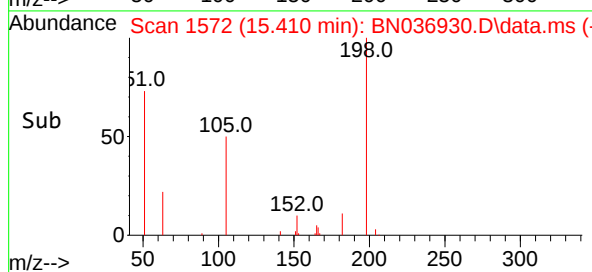
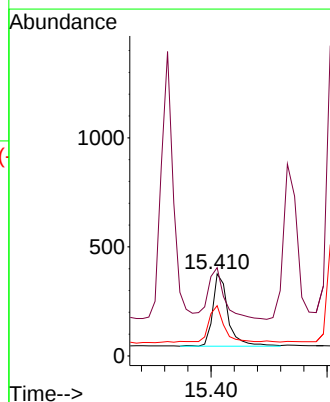
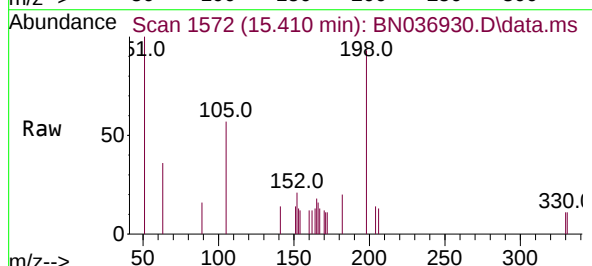
Tgt Ion:198 Resp: 612

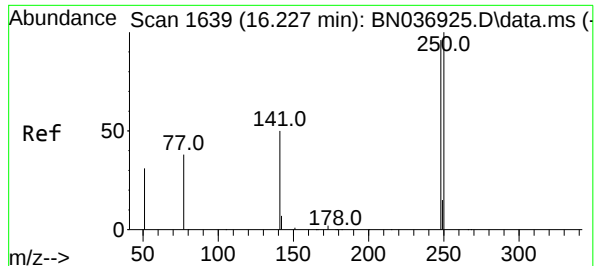
Ion Ratio Lower Upper

198 100

51 107.7 97.9 146.9

105 61.2 50.0 75.0

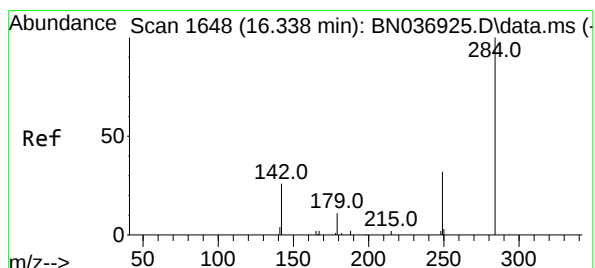
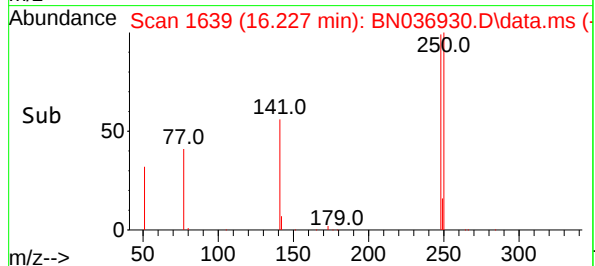
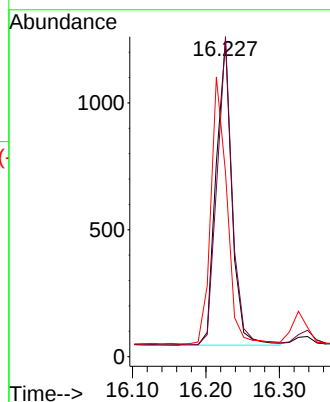
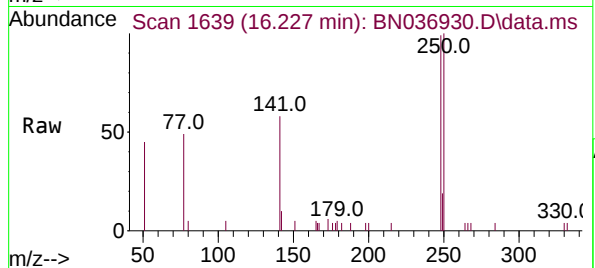




#21  
4-Bromophenyl-phenylether  
Concen: 0.376 ng  
RT: 16.227 min Scan# 1639  
Delta R.T. -0.000 min  
Lab File: BN036930.D  
Acq: 28 Apr 2025 15:51

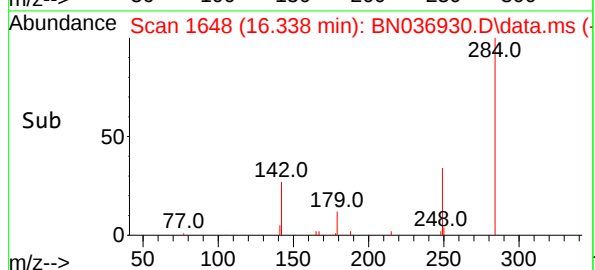
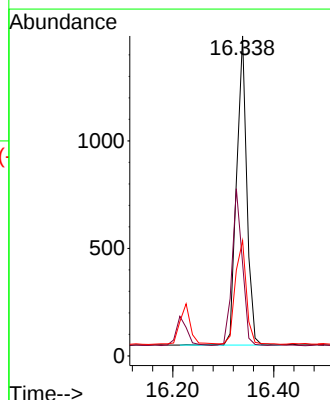
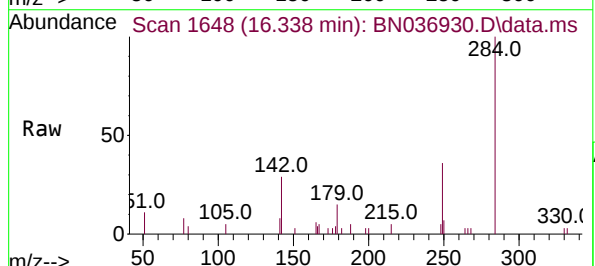
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN042825

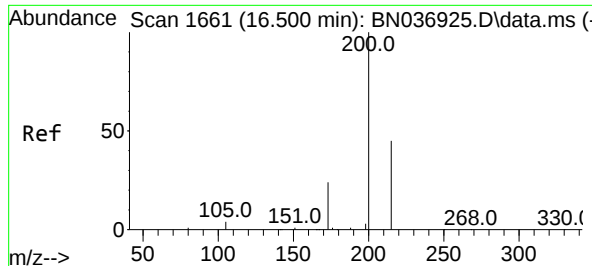
Tgt Ion:248 Resp: 1798  
Ion Ratio Lower Upper  
248 100  
250 101.3 83.7 125.5  
141 58.3 43.8 65.8



#22  
Hexachlorobenzene  
Concen: 0.387 ng  
RT: 16.338 min Scan# 1648  
Delta R.T. -0.000 min  
Lab File: BN036930.D  
Acq: 28 Apr 2025 15:51

Tgt Ion:284 Resp: 2026  
Ion Ratio Lower Upper  
284 100  
142 50.7 40.0 60.0  
249 36.4 28.2 42.2

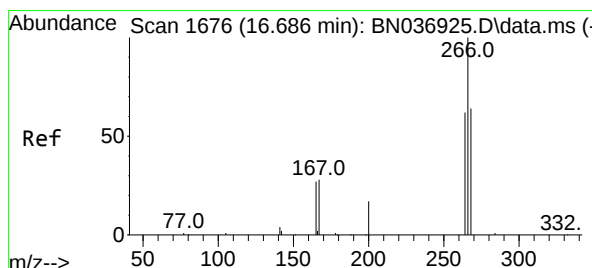
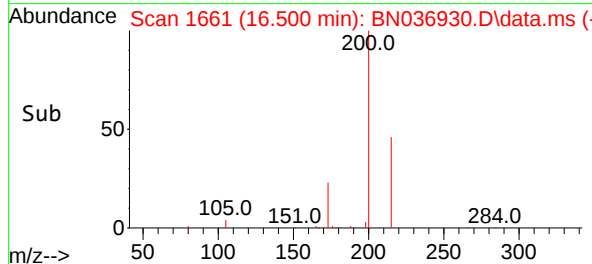
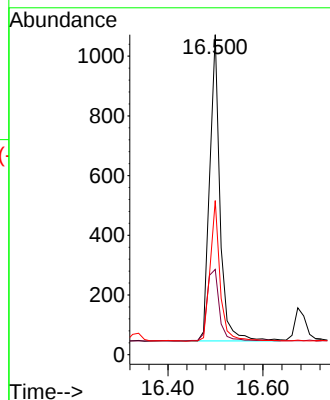
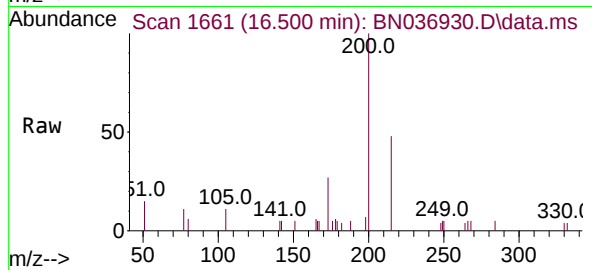




#23  
Atrazine  
Concen: 0.403 ng  
RT: 16.500 min Scan# 1661  
Delta R.T. -0.000 min  
Lab File: BN036930.D  
Acq: 28 Apr 2025 15:51

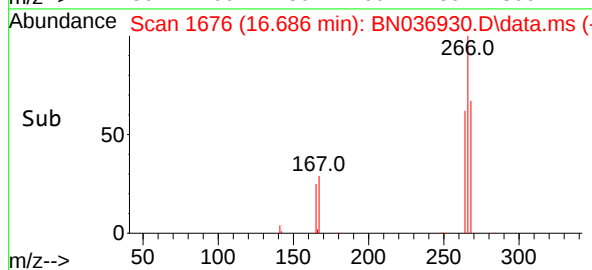
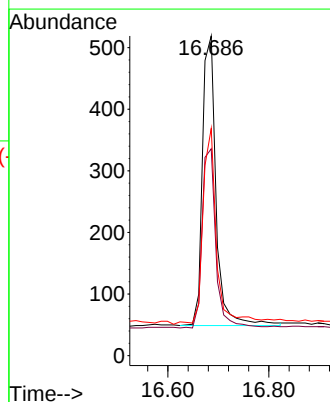
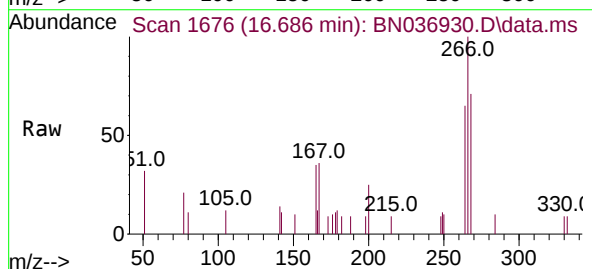
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN042825

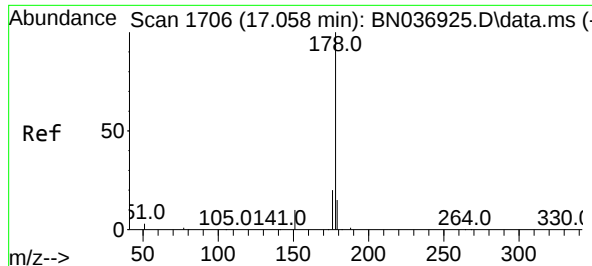
| Tgt Ion   | 200   | Resp: | 1554 |
|-----------|-------|-------|------|
| Ion Ratio | Lower | Upper |      |
| 200       | 100   |       |      |
| 173       | 26.7  | 22.4  | 33.6 |
| 215       | 48.1  | 38.6  | 57.8 |



#24  
Pentachlorophenol  
Concen: 0.315 ng  
RT: 16.686 min Scan# 1676  
Delta R.T. -0.000 min  
Lab File: BN036930.D  
Acq: 28 Apr 2025 15:51

| Tgt Ion   | 266   | Resp: | 885  |
|-----------|-------|-------|------|
| Ion Ratio | Lower | Upper |      |
| 266       | 100   |       |      |
| 264       | 62.4  | 49.9  | 74.9 |
| 268       | 67.1  | 52.2  | 78.4 |

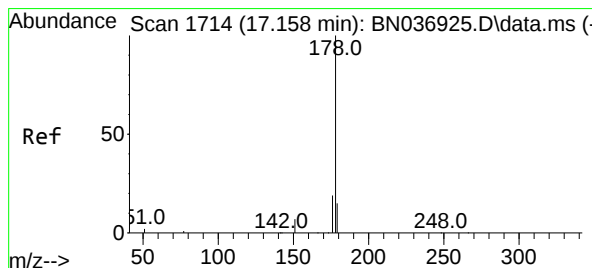
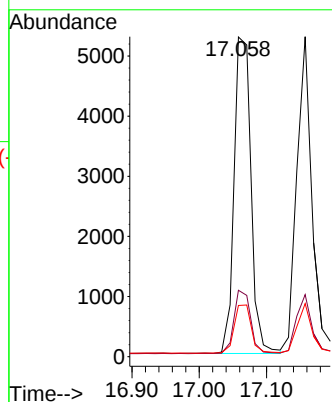
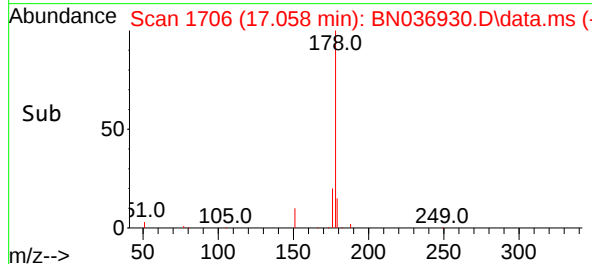
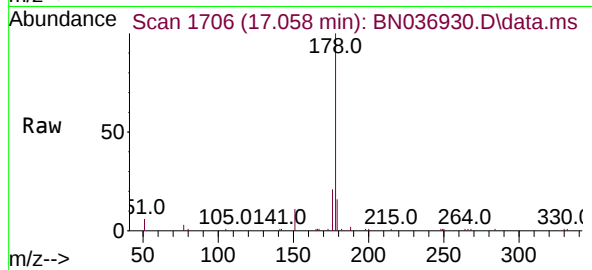




#25  
Phenanthrene  
Concen: 0.390 ng  
RT: 17.058 min Scan# 1706  
Delta R.T. -0.000 min  
Lab File: BN036930.D  
Acq: 28 Apr 2025 15:51

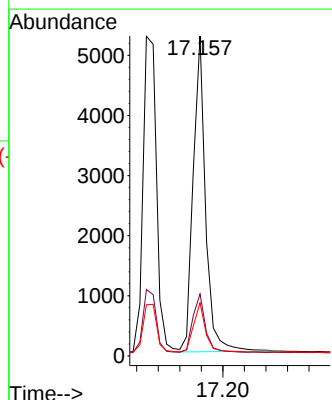
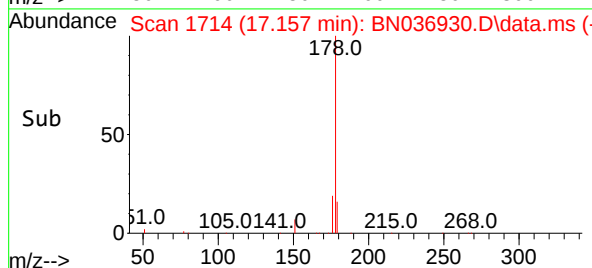
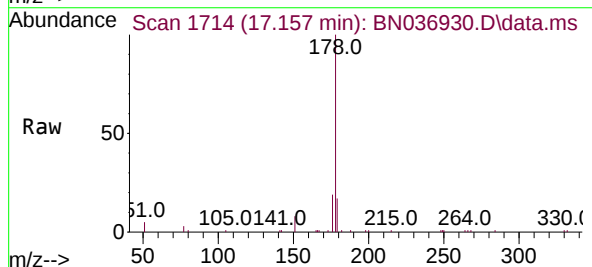
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN042825

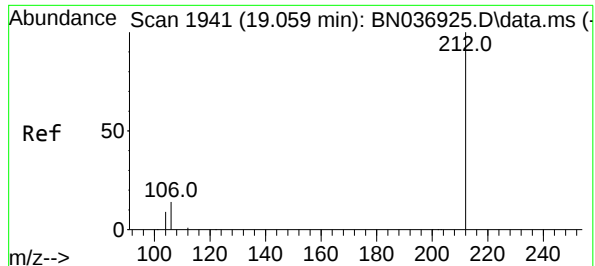
| Tgt Ion   | 178  | 176  | 179  |
|-----------|------|------|------|
| Resp:     | 9212 |      |      |
| Ion Ratio | 100  | 19.8 | 15.5 |
| Lower     |      | 15.7 | 12.4 |
| Upper     |      | 23.5 | 18.6 |



#26  
Anthracene  
Concen: 0.393 ng  
RT: 17.157 min Scan# 1714  
Delta R.T. -0.000 min  
Lab File: BN036930.D  
Acq: 28 Apr 2025 15:51

| Tgt Ion   | 178  | 176  | 179  |
|-----------|------|------|------|
| Resp:     | 8400 |      |      |
| Ion Ratio | 100  | 19.1 | 15.1 |
| Lower     |      | 15.3 | 12.1 |
| Upper     |      | 22.9 | 18.1 |





#27

Fluoranthene-d10

Concen: 0.396 ng

RT: 19.059 min Scan# 1941

Delta R.T. -0.000 min

Lab File: BN036930.D

Acq: 28 Apr 2025 15:51

Instrument :

BNA\_N

ClientSampleId :

ICVBN042825

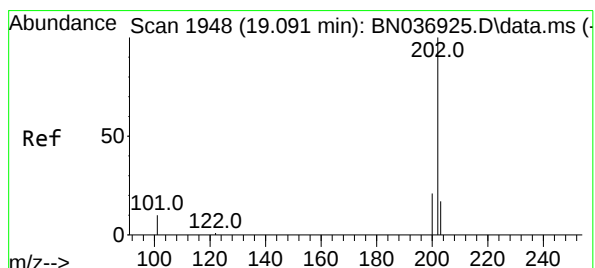
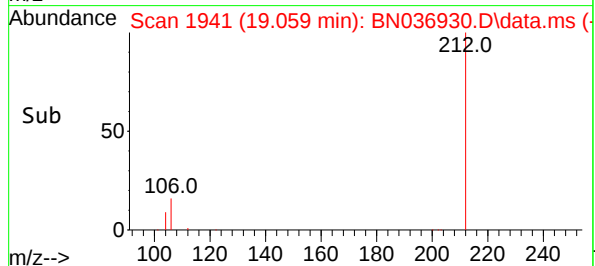
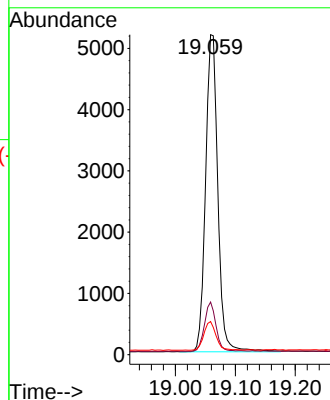
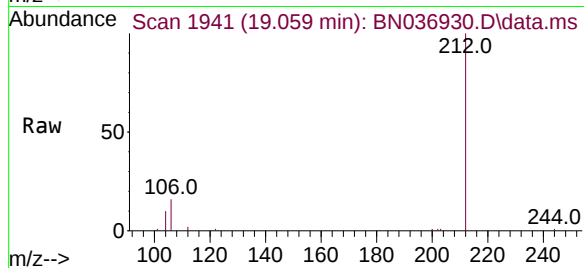
Tgt Ion:212 Resp: 7362

Ion Ratio Lower Upper

212 100

106 14.7 11.6 17.4

104 9.0 7.0 10.4



#28

Fluoranthene

Concen: 0.380 ng

RT: 19.091 min Scan# 1948

Delta R.T. -0.000 min

Lab File: BN036930.D

Acq: 28 Apr 2025 15:51

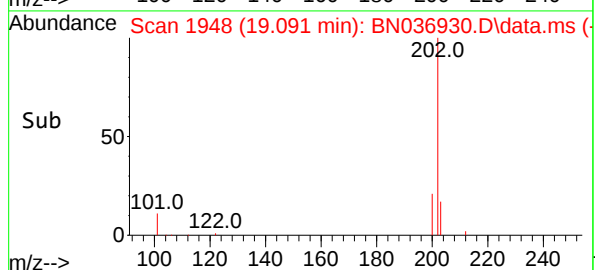
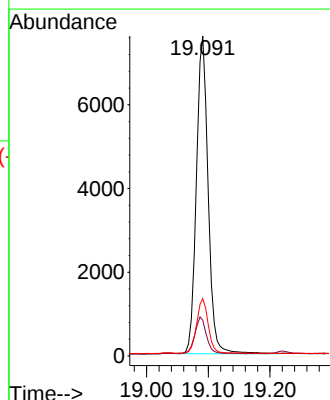
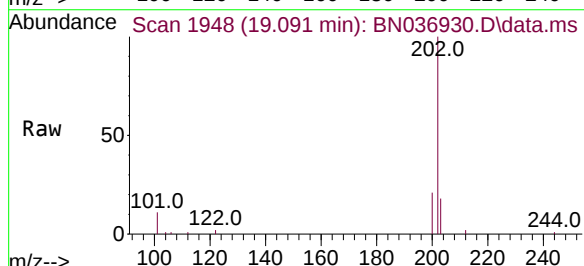
Tgt Ion:202 Resp: 10081

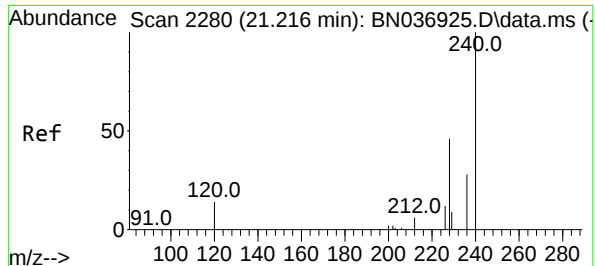
Ion Ratio Lower Upper

202 100

101 11.4 8.5 12.7

203 17.0 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.215 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036930.D

Acq: 28 Apr 2025 15:51

Instrument :

BNA\_N

ClientSampleId :

ICVBN042825

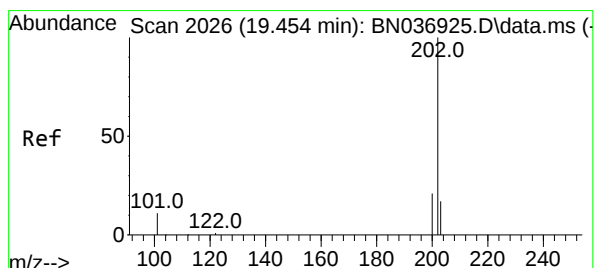
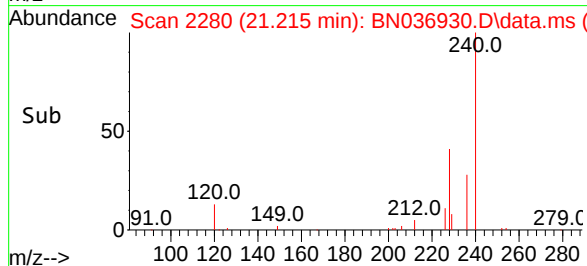
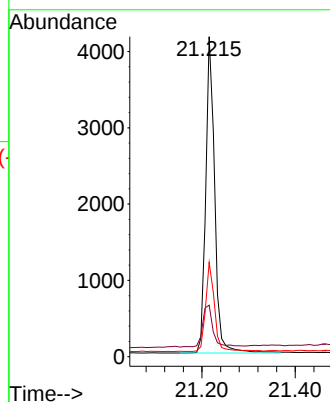
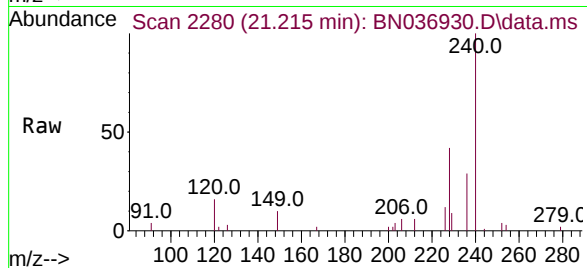
Tgt Ion:240 Resp: 5561

Ion Ratio Lower Upper

240 100

120 16.1 14.1 21.1

236 29.5 23.8 35.8



#30

Pyrene

Concen: 0.376 ng

RT: 19.453 min Scan# 2026

Delta R.T. -0.000 min

Lab File: BN036930.D

Acq: 28 Apr 2025 15:51

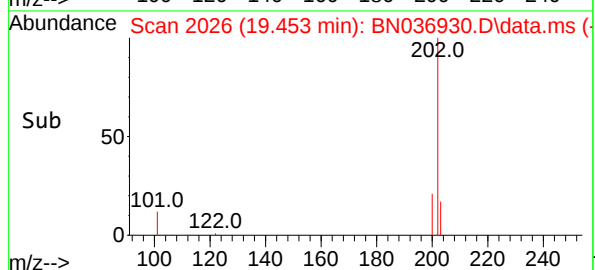
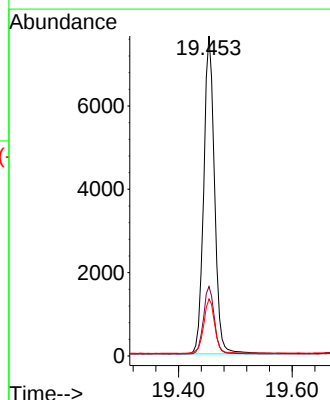
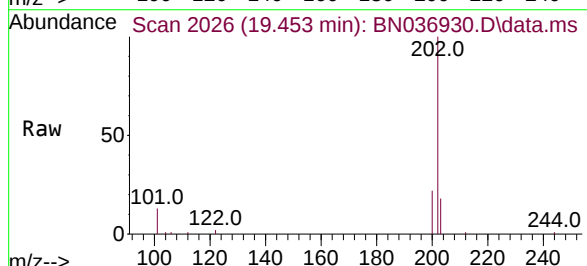
Tgt Ion:202 Resp: 10076

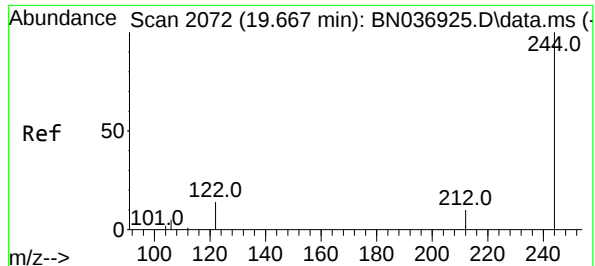
Ion Ratio Lower Upper

202 100

200 21.4 17.0 25.6

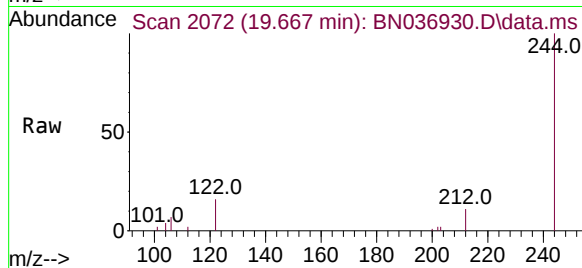
203 17.6 14.0 21.0



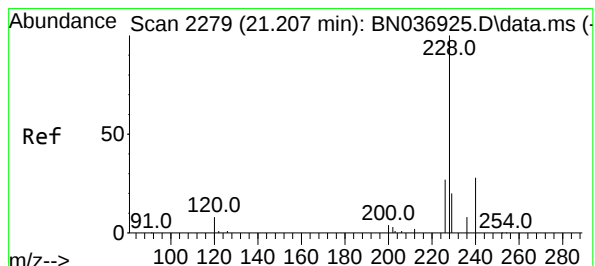
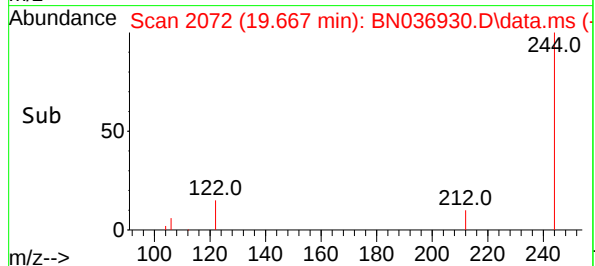
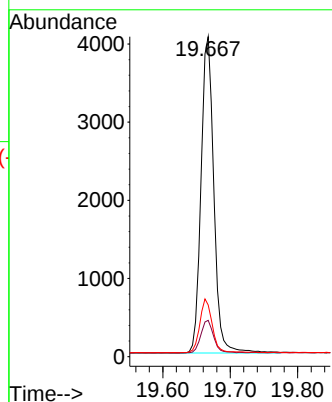


#31  
Terphenyl-d14  
Concen: 0.407 ng  
RT: 19.667 min Scan# 2072  
Delta R.T. -0.000 min  
Lab File: BN036930.D  
Acq: 28 Apr 2025 15:51

Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN042825

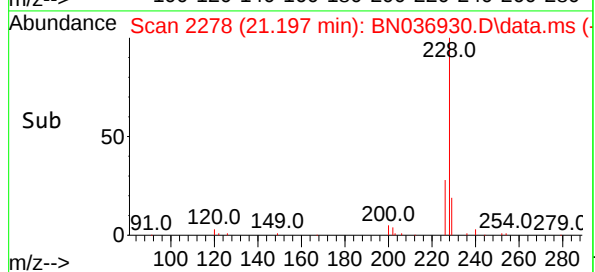
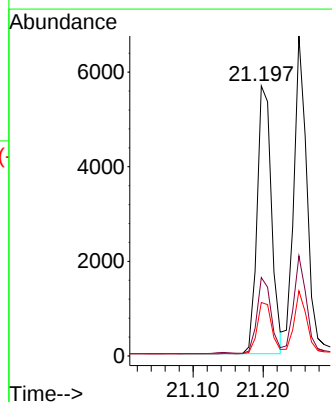
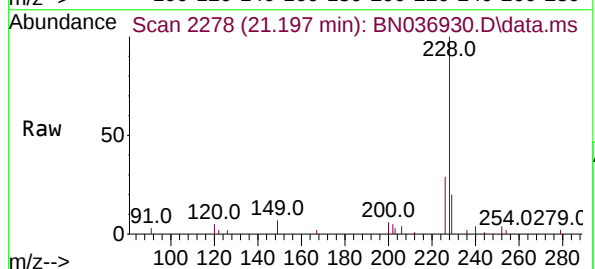


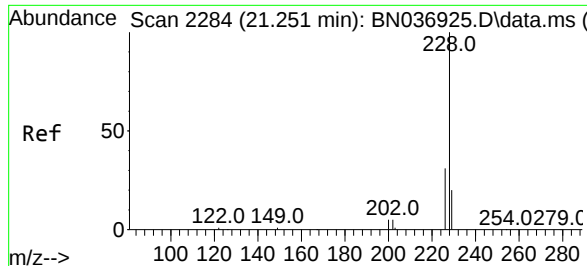
Tgt Ion:244 Resp: 5345  
Ion Ratio Lower Upper  
244 100  
212 11.3 9.6 14.4  
122 16.2 12.7 19.1



#32  
Benzo(a)anthracene  
Concen: 0.396 ng  
RT: 21.197 min Scan# 2278  
Delta R.T. -0.009 min  
Lab File: BN036930.D  
Acq: 28 Apr 2025 15:51

Tgt Ion:228 Resp: 8105  
Ion Ratio Lower Upper  
228 100  
226 29.1 22.2 33.4  
229 19.8 16.4 24.6





#33

Chrysene

Concen: 0.405 ng

RT: 21.251 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036930.D

Acq: 28 Apr 2025 15:51

Instrument :

BNA\_N

ClientSampleId :

ICVBN042825

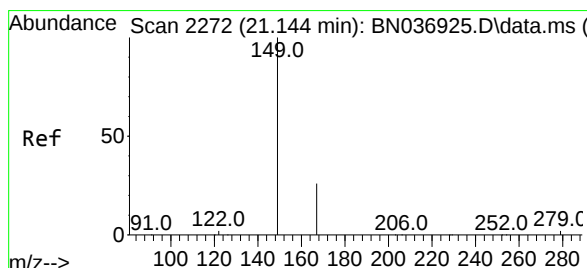
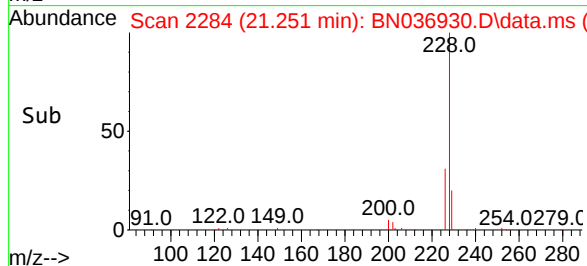
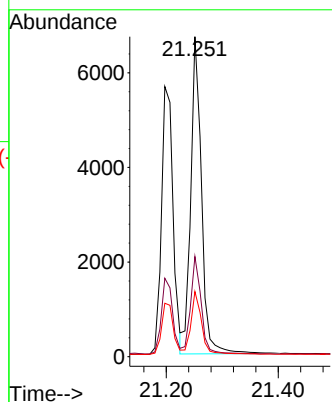
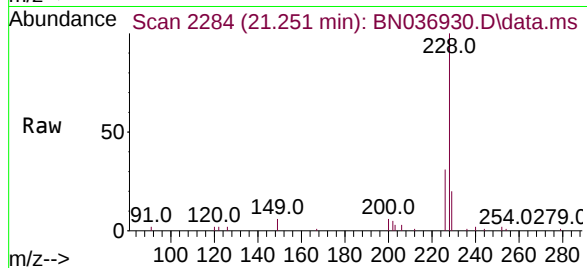
Tgt Ion:228 Resp: 8947

Ion Ratio Lower Upper

228 100

226 31.3 25.5 38.3

229 20.4 16.5 24.7



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.360 ng

RT: 21.144 min Scan# 2272

Delta R.T. -0.000 min

Lab File: BN036930.D

Acq: 28 Apr 2025 15:51

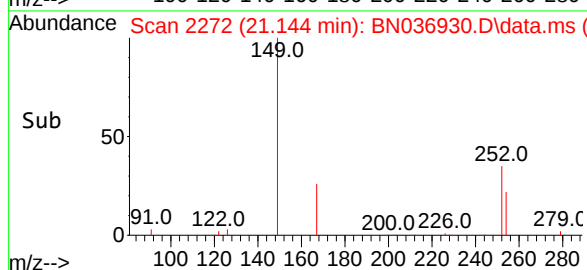
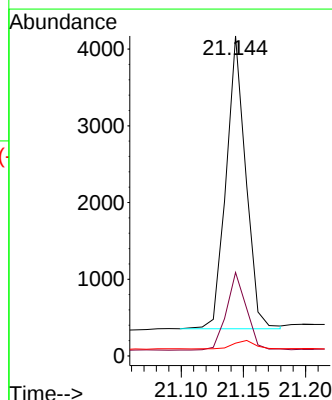
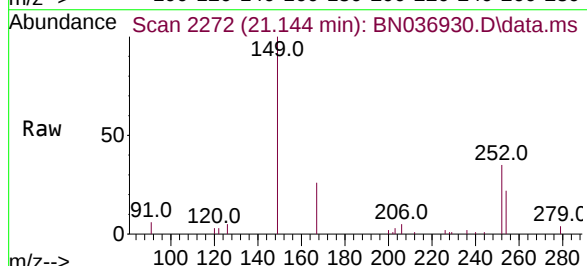
Tgt Ion:149 Resp: 4190

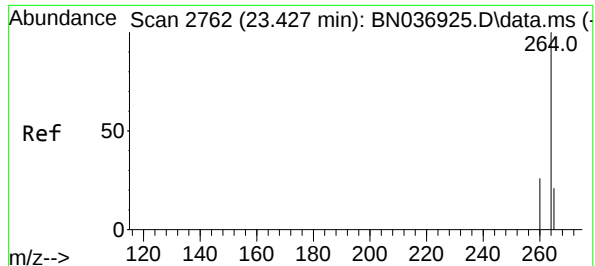
Ion Ratio Lower Upper

149 100

167 27.1 21.0 31.6

279 3.2 2.7 4.1





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.427 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036930.D

Acq: 28 Apr 2025 15:51

Instrument :

BNA\_N

ClientSampleId :

ICVBN042825

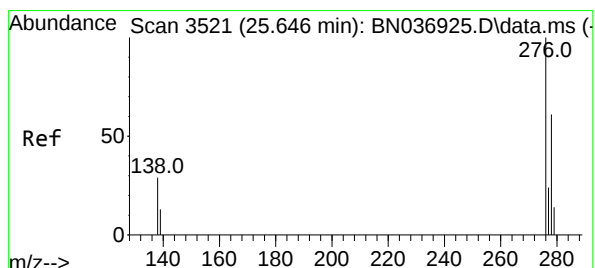
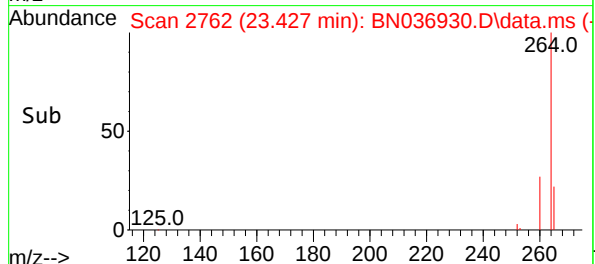
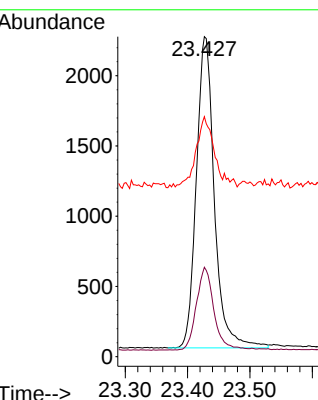
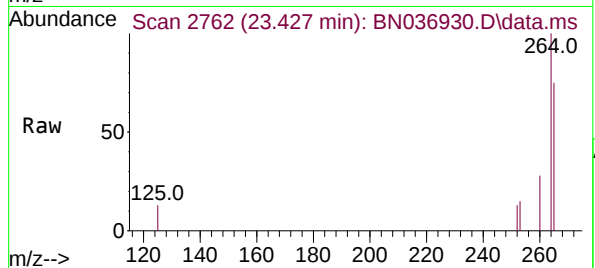
Tgt Ion:264 Resp: 4453

Ion Ratio Lower Upper

264 100

260 28.0 22.2 33.2

265 75.0 65.8 98.6



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.364 ng

RT: 25.640 min Scan# 3519

Delta R.T. -0.006 min

Lab File: BN036930.D

Acq: 28 Apr 2025 15:51

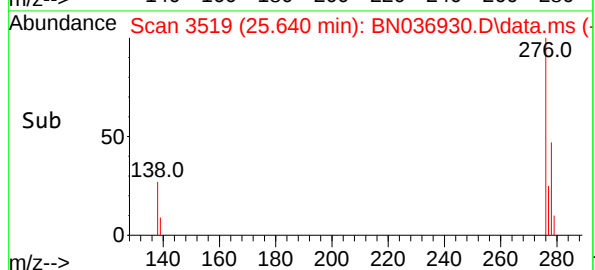
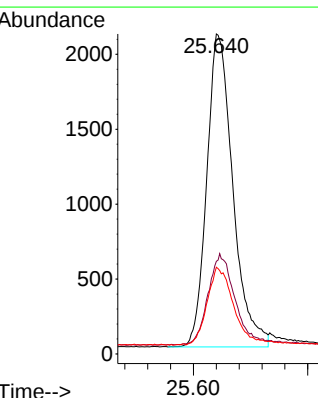
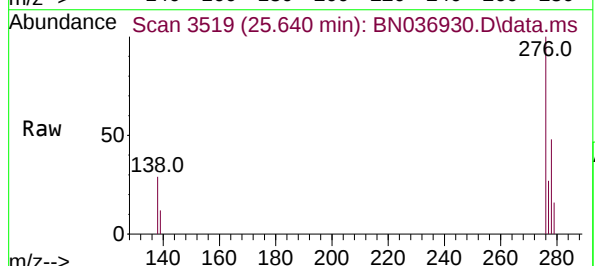
Tgt Ion:276 Resp: 6626

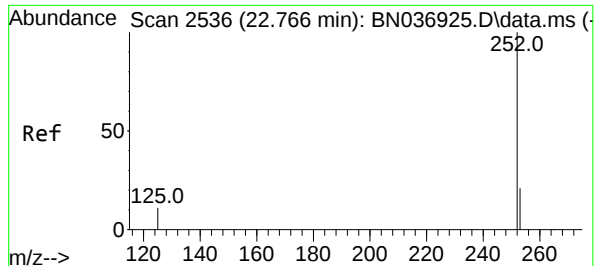
Ion Ratio Lower Upper

276 100

138 29.6 23.0 34.6

277 24.9 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 0.389 ng

RT: 22.763 min Scan# 2535

Delta R.T. -0.003 min

Lab File: BN036930.D

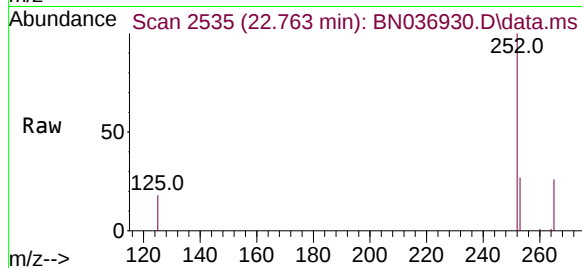
Acq: 28 Apr 2025 15:51

Instrument :

BNA\_N

ClientSampleId :

ICVBN042825



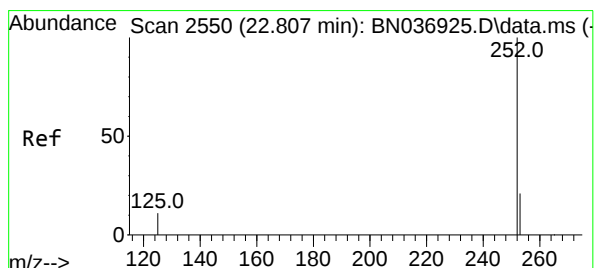
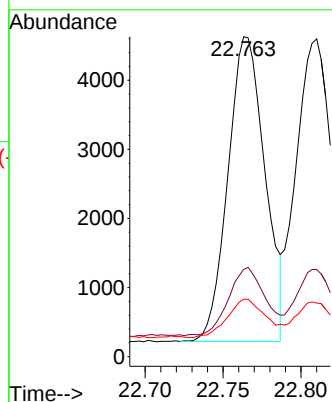
Tgt Ion:252 Resp: 7283

Ion Ratio Lower Upper

252 100

253 27.3 22.1 33.1

125 18.0 14.2 21.2



#38

Benzo(k)fluoranthene

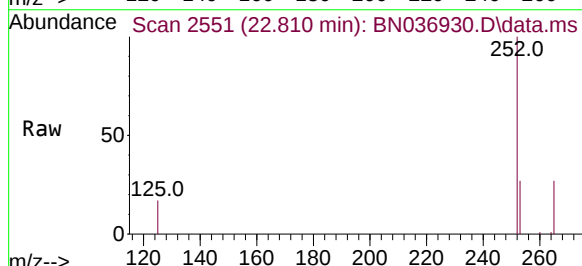
Concen: 0.407 ng

RT: 22.810 min Scan# 2551

Delta R.T. 0.003 min

Lab File: BN036930.D

Acq: 28 Apr 2025 15:51



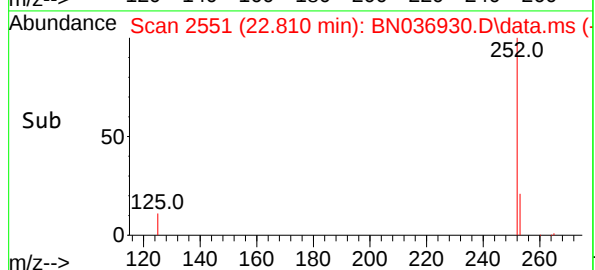
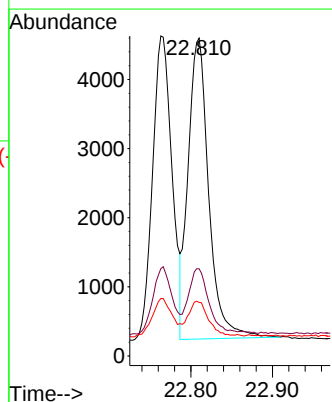
Tgt Ion:252 Resp: 7655

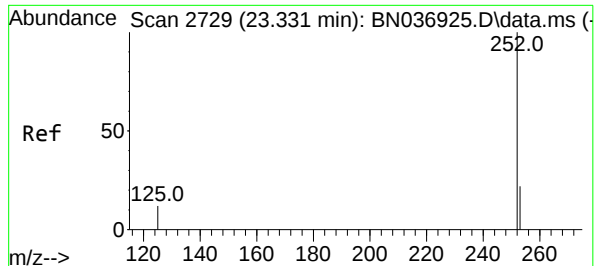
Ion Ratio Lower Upper

252 100

253 27.4 22.8 34.2

125 16.9 14.2 21.2





#39

Benzo(a)pyrene

Concen: 0.417 ng

RT: 23.330 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036930.D

Acq: 28 Apr 2025 15:51

Instrument :

BNA\_N

ClientSampleId :

ICVBN042825

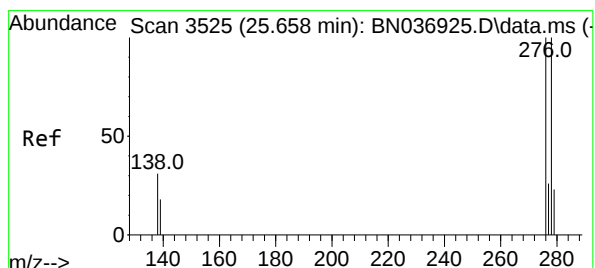
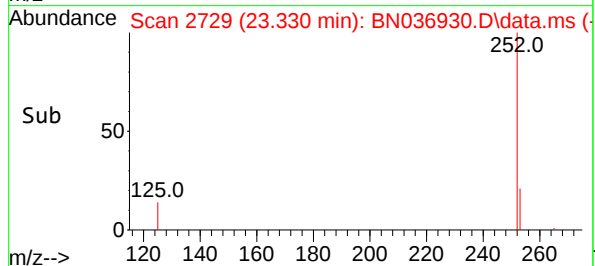
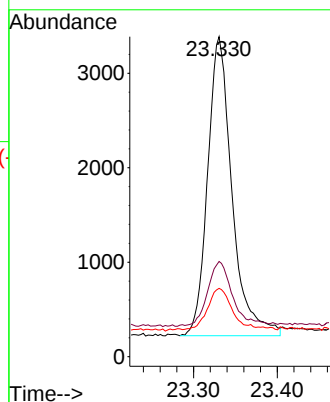
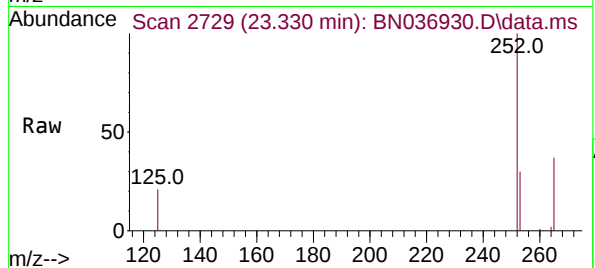
Tgt Ion:252 Resp: 6417

Ion Ratio Lower Upper

252 100

253 29.8 25.9 38.9

125 21.3 17.4 26.0



#40

Dibenzo(a,h)anthracene

Concen: 0.362 ng

RT: 25.663 min Scan# 3527

Delta R.T. 0.006 min

Lab File: BN036930.D

Acq: 28 Apr 2025 15:51

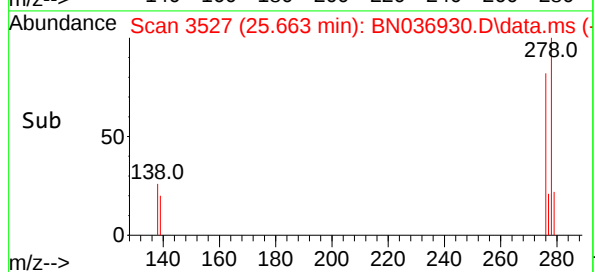
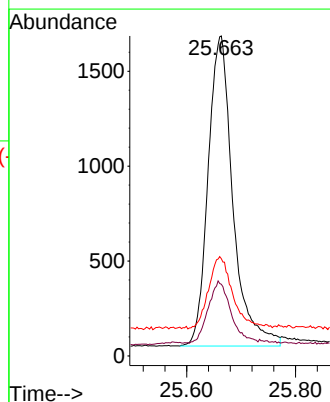
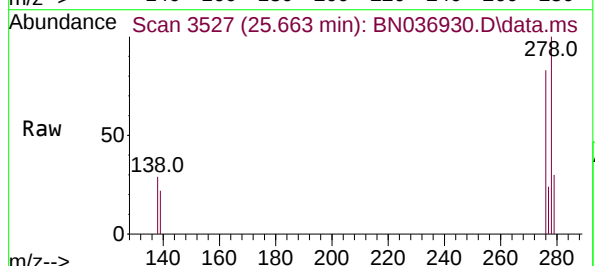
Tgt Ion:278 Resp: 5177

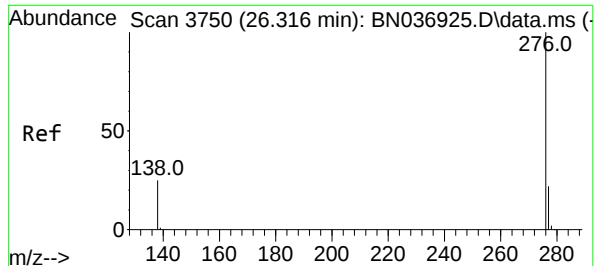
Ion Ratio Lower Upper

278 100

139 22.4 17.4 26.2

279 30.4 24.9 37.3





#41

Benzo(g,h,i)perylene

Concen: 0.359 ng

RT: 26.321 min Scan# 31

Delta R.T. 0.006 min

Lab File: BN036930.D

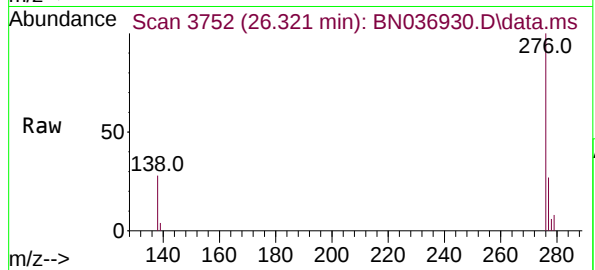
Acq: 28 Apr 2025 15:51

Instrument :

BNA\_N

ClientSampleId :

ICVBN042825



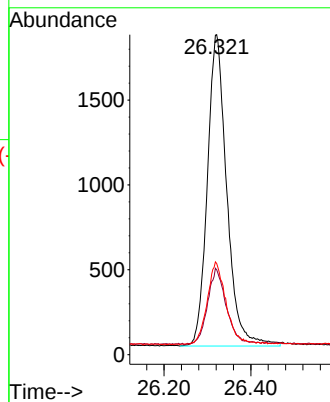
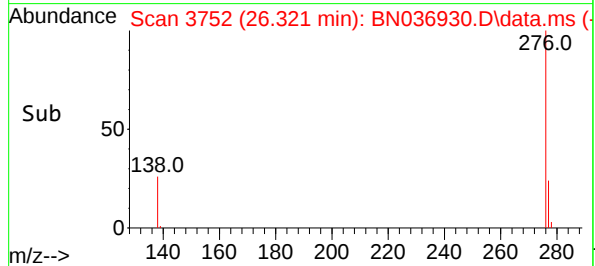
Tgt Ion:276 Resp: 5705

Ion Ratio Lower Upper

276 100

277 26.5 20.2 30.2

138 28.5 21.9 32.9



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN042825\  
 Data File : BN036930.D  
 Acq On : 28 Apr 2025 15:51  
 Operator : RC/JU  
 Sample : SSTDICV0.4  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 ICVBN042825

Quant Time: Apr 28 18:00:30 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN042825.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Apr 28 15:35:03 2025  
 Response via : Initial Calibration

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

|         | Compound                   | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|---------|----------------------------|-------|-------|------|-------|----------|
| 1 I     | 1,4-Dichlorobenzene-d4     | 1.000 | 1.000 | 0.0  | 101   | 0.00     |
| 2       | 1,4-Dioxane                | 0.498 | 0.543 | -9.0 | 100   | 0.00     |
| 3       | n-Nitrosodimethylamine     | 0.967 | 0.989 | -2.3 | 99    | 0.00     |
| 4 S     | 2-Fluorophenol             | 1.023 | 0.913 | 10.8 | 83    | 0.00     |
| 5 S     | Phenol-d6                  | 1.259 | 1.095 | 13.0 | 83    | 0.00     |
| 6       | bis(2-Chloroethyl)ether    | 1.167 | 1.229 | -5.3 | 107   | 0.00     |
| 7 I     | Naphthalene-d8             | 1.000 | 1.000 | 0.0  | 106   | 0.00     |
| 8 S     | Nitrobenzene-d5            | 0.418 | 0.426 | -1.9 | 110   | 0.00     |
| 9       | Naphthalene                | 1.164 | 1.162 | 0.2  | 107   | 0.00     |
| 10      | Hexachlorobutadiene        | 0.252 | 0.261 | -3.6 | 109   | 0.00     |
| 11 SURR | 2-Methylnaphthalene-d10    | 0.559 | 0.575 | -2.9 | 113   | 0.00     |
| 12      | 2-Methylnaphthalene        | 0.753 | 0.690 | 8.4  | 102   | 0.00     |
| 13 I    | Acenaphthene-d10           | 1.000 | 1.000 | 0.0  | 118   | 0.00     |
| 14 S    | 2,4,6-Tribromophenol       | 0.178 | 0.146 | 18.0 | 97    | 0.00     |
| 15 S    | 2-Fluorobiphenyl           | 1.933 | 1.889 | 2.3  | 108   | 0.00     |
| 16      | Acenaphthylene             | 1.955 | 2.010 | -2.8 | 124   | 0.00     |
| 17      | Acenaphthene               | 1.284 | 1.226 | 4.5  | 113   | 0.00     |
| 18      | Fluorene                   | 1.680 | 1.639 | 2.4  | 119   | 0.00     |
| 19 I    | Phenanthrene-d10           | 1.000 | 1.000 | 0.0  | 125   | 0.00     |
| 20      | 4,6-Dinitro-2-methylphenol | 0.106 | 0.085 | 19.8 | 119   | 0.00     |
| 21      | 4-Bromophenyl-phenylether  | 0.267 | 0.251 | 6.0  | 120   | 0.00     |
| 22      | Hexachlorobenzene          | 0.293 | 0.283 | 3.4  | 118   | 0.00     |
| 23      | Atrazine                   | 0.215 | 0.217 | -0.9 | 136   | 0.00     |
| 24      | Pentachlorophenol          | 0.157 | 0.124 | 21.0 | 107   | 0.00     |
| 25      | Phenanthrene               | 1.320 | 1.286 | 2.6  | 124   | 0.00     |
| 26      | Anthracene                 | 1.194 | 1.172 | 1.8  | 128   | 0.00     |
| 27 SURR | Fluoranthene-d10           | 1.037 | 1.027 | 1.0  | 130   | 0.00     |
| 28      | Fluoranthene               | 1.480 | 1.407 | 4.9  | 126   | 0.00     |
| 29 I    | Chrysene-d12               | 1.000 | 1.000 | 0.0  | 135   | 0.00     |
| 30      | Pyrene                     | 1.927 | 1.812 | 6.0  | 125   | 0.00     |
| 31 S    | Terphenyl-d14              | 0.944 | 0.961 | -1.8 | 137   | 0.00     |
| 32      | Benzo(a)anthracene         | 1.473 | 1.457 | 1.1  | 138   | 0.00     |
| 33      | Chrysene                   | 1.589 | 1.609 | -1.3 | 133   | 0.00     |
| 34      | Bis(2-ethylhexyl)phthalate | 0.838 | 0.753 | 10.1 | 122   | 0.00     |
| 35 I    | Perylene-d12               | 1.000 | 1.000 | 0.0  | 123   | 0.00     |
| 36      | Indeno(1,2,3-cd)pyrene     | 1.634 | 1.488 | 8.9  | 107   | 0.00     |
| 37      | Benzo(b)fluoranthene       | 1.682 | 1.636 | 2.7  | 123   | 0.00     |
| 38      | Benzo(k)fluoranthene       | 1.691 | 1.719 | -1.7 | 128   | 0.00     |
| 39 C    | Benzo(a)pyrene             | 1.383 | 1.441 | -4.2 | 130   | 0.00     |
| 40      | Dibenzo(a,h)anthracene     | 1.286 | 1.163 | 9.6  | 106   | 0.00     |
| 41      | Benzo(g,h,i)perylene       | 1.427 | 1.281 | 10.2 | 104   | 0.00     |

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN042825\  
 Data File : BN036930.D  
 Acq On : 28 Apr 2025 15:51  
 Operator : RC/JU  
 Sample : SSTDICV0.4  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 ICBN042825

Quant Time: Apr 28 18:00:30 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN042825.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Apr 28 15:35:03 2025  
 Response via : Initial Calibration

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

|         | Compound                   | Amount | Calc. | %Dev | Area% | Dev(min) |
|---------|----------------------------|--------|-------|------|-------|----------|
| 1 I     | 1,4-Dichlorobenzene-d4     | 0.400  | 0.400 | 0.0  | 101   | 0.00     |
| 2       | 1,4-Dioxane                | 0.400  | 0.435 | -8.7 | 100   | 0.00     |
| 3       | n-Nitrosodimethylamine     | 0.400  | 0.409 | -2.2 | 99    | 0.00     |
| 4 S     | 2-Fluorophenol             | 0.400  | 0.357 | 10.8 | 83    | 0.00     |
| 5 S     | Phenol-d6                  | 0.400  | 0.348 | 13.0 | 83    | 0.00     |
| 6       | bis(2-Chloroethyl)ether    | 0.400  | 0.421 | -5.2 | 107   | 0.00     |
| 7 I     | Naphthalene-d8             | 0.400  | 0.400 | 0.0  | 106   | 0.00     |
| 8 S     | Nitrobenzene-d5            | 0.400  | 0.408 | -2.0 | 110   | 0.00     |
| 9       | Naphthalene                | 0.400  | 0.399 | 0.3  | 107   | 0.00     |
| 10      | Hexachlorobutadiene        | 0.400  | 0.414 | -3.5 | 109   | 0.00     |
| 11 SURR | 2-Methylnaphthalene-d10    | 0.400  | 0.411 | -2.7 | 113   | 0.00     |
| 12      | 2-Methylnaphthalene        | 0.400  | 0.367 | 8.3  | 102   | 0.00     |
| 13 I    | Acenaphthene-d10           | 0.400  | 0.400 | 0.0  | 118   | 0.00     |
| 14 S    | 2,4,6-Tribromophenol       | 0.400  | 0.327 | 18.3 | 97    | 0.00     |
| 15 S    | 2-Fluorobiphenyl           | 0.400  | 0.391 | 2.3  | 108   | 0.00     |
| 16      | Acenaphthylene             | 0.400  | 0.411 | -2.7 | 124   | 0.00     |
| 17      | Acenaphthene               | 0.400  | 0.382 | 4.5  | 113   | 0.00     |
| 18      | Fluorene                   | 0.400  | 0.390 | 2.5  | 119   | 0.00     |
| 19 I    | Phenanthrene-d10           | 0.400  | 0.400 | 0.0  | 125   | 0.00     |
| 20      | 4,6-Dinitro-2-methylphenol | 0.400  | 0.323 | 19.3 | 119   | 0.00     |
| 21      | 4-Bromophenyl-phenylether  | 0.400  | 0.376 | 6.0  | 120   | 0.00     |
| 22      | Hexachlorobenzene          | 0.400  | 0.387 | 3.3  | 118   | 0.00     |
| 23      | Atrazine                   | 0.400  | 0.403 | -0.8 | 136   | 0.00     |
| 24      | Pentachlorophenol          | 0.400  | 0.315 | 21.3 | 107   | 0.00     |
| 25      | Phenanthrene               | 0.400  | 0.390 | 2.5  | 124   | 0.00     |
| 26      | Anthracene                 | 0.400  | 0.393 | 1.8  | 128   | 0.00     |
| 27 SURR | Fluoranthene-d10           | 0.400  | 0.396 | 1.0  | 130   | 0.00     |
| 28      | Fluoranthene               | 0.400  | 0.380 | 5.0  | 126   | 0.00     |
| 29 I    | Chrysene-d12               | 0.400  | 0.400 | 0.0  | 135   | 0.00     |
| 30      | Pyrene                     | 0.400  | 0.376 | 6.0  | 125   | 0.00     |
| 31 S    | Terphenyl-d14              | 0.400  | 0.407 | -1.7 | 137   | 0.00     |
| 32      | Benzo(a)anthracene         | 0.400  | 0.396 | 1.0  | 138   | 0.00     |
| 33      | Chrysene                   | 0.400  | 0.405 | -1.3 | 133   | 0.00     |
| 34      | Bis(2-ethylhexyl)phthalate | 0.400  | 0.360 | 10.0 | 122   | 0.00     |
| 35 I    | Perylene-d12               | 0.400  | 0.400 | 0.0  | 123   | 0.00     |
| 36      | Indeno(1,2,3-cd)pyrene     | 0.400  | 0.364 | 9.0  | 107   | 0.00     |
| 37      | Benzo(b)fluoranthene       | 0.400  | 0.389 | 2.8  | 123   | 0.00     |
| 38      | Benzo(k)fluoranthene       | 0.400  | 0.407 | -1.7 | 128   | 0.00     |
| 39 C    | Benzo(a)pyrene             | 0.400  | 0.417 | -4.2 | 130   | 0.00     |
| 40      | Dibenzo(a,h)anthracene     | 0.400  | 0.362 | 9.5  | 106   | 0.00     |
| 41      | Benzo(g,h,i)perylene       | 0.400  | 0.359 | 10.3 | 104   | 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: ALLI03

Lab Code: CHEM Case No.: Q1870 SAS No.: Q1870 SDG No.: Q1870

Instrument ID: BNA\_N Calibration Date/Time: 04/29/2025 09:17

Lab File ID: BN036933.D Init. Calib. Date(s): 04/28/2025 04/28/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 11:35 15:12

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

| COMPOUND                | RRF   | RRF0.4 | MIN<br>RRF | %D   | MAX%D |
|-------------------------|-------|--------|------------|------|-------|
| 2-Methylnaphthalene-d10 | 0.559 | 0.542  |            | -3.0 | 20.0  |
| Fluoranthene-d10        | 1.037 | 0.998  |            | -3.8 | 20.0  |
| 2-Fluorophenol          | 1.023 | 1.058  |            | 3.4  | 20.0  |
| Phenol-d6               | 1.259 | 1.302  |            | 3.4  | 20.0  |
| Nitrobenzene-d5         | 0.418 | 0.407  |            | -2.6 | 20.0  |
| 2-Fluorobiphenyl        | 1.933 | 1.953  |            | 1.0  | 20.0  |
| Acenaphthylene          | 1.955 | 1.903  |            | -2.7 | 20.0  |
| 2,4,6-Tribromophenol    | 0.178 | 0.172  |            | -3.4 | 20.0  |
| Terphenyl-d14           | 0.944 | 0.951  |            | 0.7  | 20.0  |

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN042925\  
 Data File : BN036933.D  
 Acq On : 29 Apr 2025 09:17  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4

Quant Time: Apr 29 10:49:04 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN042825.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Apr 28 15:35:03 2025  
 Response via : Initial Calibration

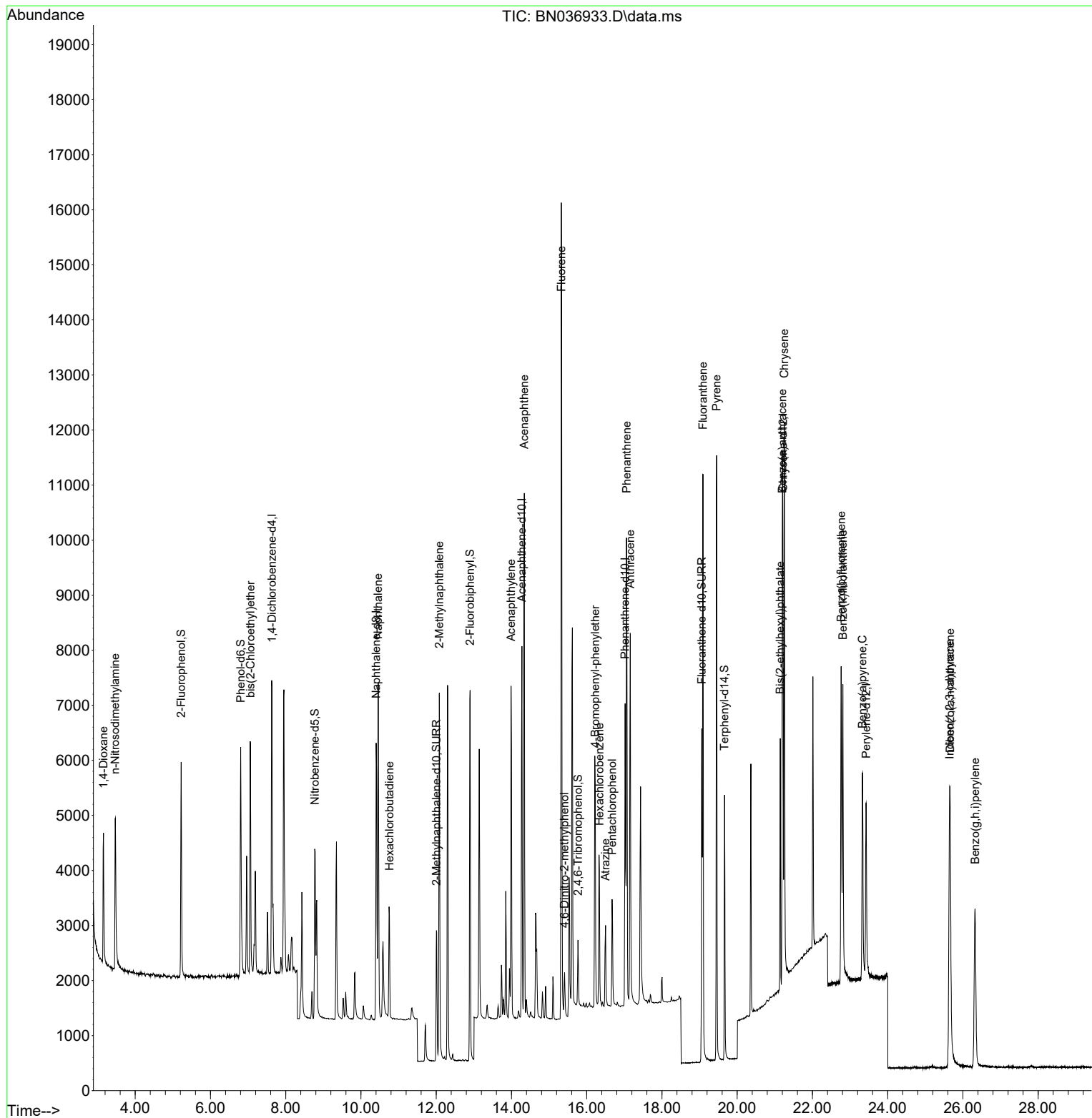
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.633  | 152  | 2604     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.404 | 136  | 6625     | 0.400 | ng    | #-0.01   |
| 13) Acenaphthene-d10          | 14.277 | 164  | 3573     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 17.021 | 188  | 6894     | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 21.216 | 240  | 5083     | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.427 | 264  | 4284     | 0.400 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.221  | 112  | 2755     | 0.414 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.802  | 99   | 3390     | 0.413 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.771  | 82   | 2694     | 0.389 | ng    | -0.01    |
| 11) 2-Methylnaphthalene-d10   | 12.006 | 152  | 3590     | 0.387 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.767 | 330  | 613      | 0.385 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.899 | 172  | 6977     | 0.404 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 19.059 | 212  | 6879     | 0.385 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.663 | 244  | 4832     | 0.403 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| Target Compounds              |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.155  | 88   | 1429     | 0.440 | ng    | 99       |
| 3) n-Nitrosodimethylamine     | 3.466  | 42   | 2520     | 0.400 | ng    | 99       |
| 6) bis(2-Chloroethyl)ether    | 7.062  | 93   | 3072     | 0.404 | ng    | 99       |
| 9) Naphthalene                | 10.458 | 128  | 7647     | 0.397 | ng    | 100      |
| 10) Hexachlorobutadiene       | 10.757 | 225  | 1687     | 0.404 | ng    | # 96     |
| 12) 2-Methylnaphthalene       | 12.082 | 142  | 4827     | 0.387 | ng    | 99       |
| 16) Acenaphthylene            | 13.989 | 152  | 6799     | 0.389 | ng    | 100      |
| 17) Acenaphthene              | 14.342 | 154  | 4543     | 0.396 | ng    | 100      |
| 18) Fluorene                  | 15.325 | 166  | 5827     | 0.388 | ng    | 99       |
| 20) 4,6-Dinitro-2-methylph... | 15.411 | 198  | 599      | 0.328 | ng    | 83       |
| 21) 4-Bromophenyl-phenylether | 16.227 | 248  | 1787     | 0.388 | ng    | 98       |
| 22) Hexachlorobenzene         | 16.338 | 284  | 2017     | 0.400 | ng    | 99       |
| 23) Atrazine                  | 16.500 | 200  | 1374     | 0.370 | ng    | 97       |
| 24) Pentachlorophenol         | 16.674 | 266  | 1008     | 0.373 | ng    | 99       |
| 25) Phenanthrene              | 17.058 | 178  | 9028     | 0.397 | ng    | 100      |
| 26) Anthracene                | 17.158 | 178  | 7875     | 0.383 | ng    | 100      |
| 28) Fluoranthene              | 19.091 | 202  | 9845     | 0.386 | ng    | 99       |
| 30) Pyrene                    | 19.454 | 202  | 9791     | 0.400 | ng    | 100      |
| 32) Benzo(a)anthracene        | 21.198 | 228  | 7169     | 0.383 | ng    | 98       |
| 33) Chrysene                  | 21.251 | 228  | 8393     | 0.416 | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 21.144 | 149  | 3845     | 0.361 | ng    | 98       |
| 36) Indeno(1,2,3-cd)pyrene    | 25.643 | 276  | 6842     | 0.391 | ng    | 99       |
| 37) Benzo(b)fluoranthene      | 22.763 | 252  | 7159     | 0.397 | ng    | 99       |
| 38) Benzo(k)fluoranthene      | 22.807 | 252  | 7036     | 0.388 | ng    | 98       |
| 39) Benzo(a)pyrene            | 23.328 | 252  | 5774     | 0.390 | ng    | 97       |
| 40) Dibenzo(a,h)anthracene    | 25.658 | 278  | 5371     | 0.390 | ng    | 97       |
| 41) Benzo(g,h,i)perylene      | 26.321 | 276  | 5958     | 0.390 | ng    | 98       |

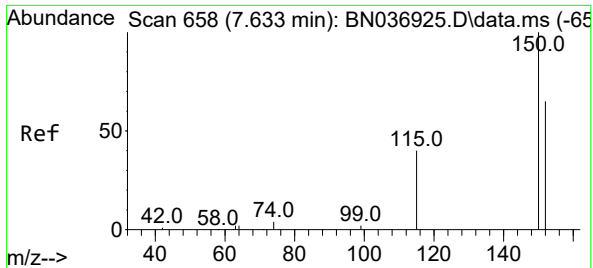
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN042925\  
Data File : BN036933.D  
Acq On : 29 Apr 2025 09:17  
Operator : RC/JU  
Sample : SSTDCCC0.4  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

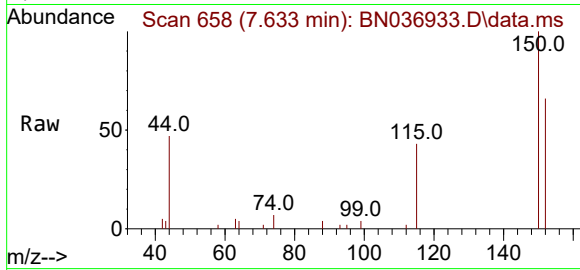
Quant Time: Apr 29 10:49:04 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN042825.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Apr 28 15:35:03 2025  
Response via : Initial Calibration



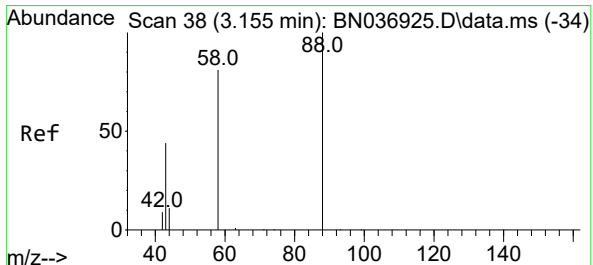
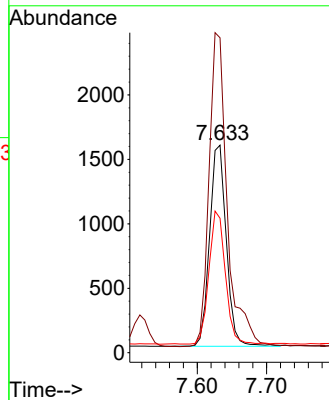
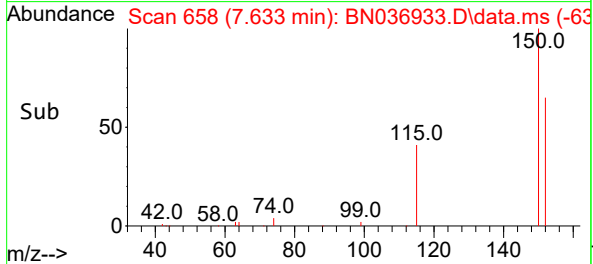


#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.633 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: BN036933.D  
Acq: 29 Apr 2025 09:17

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

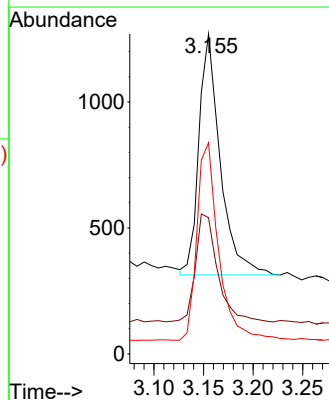
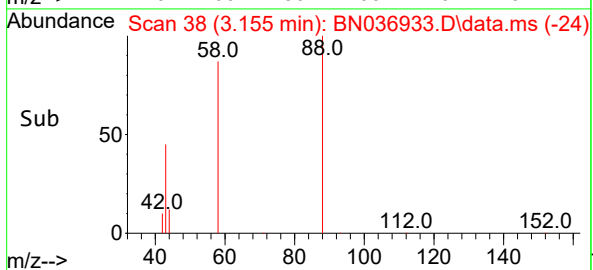
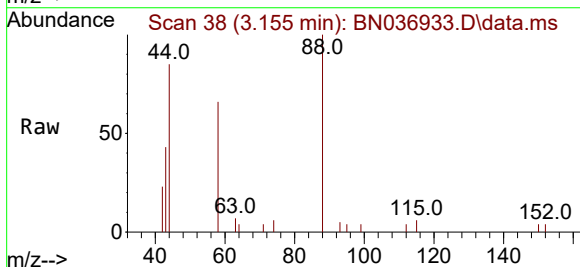


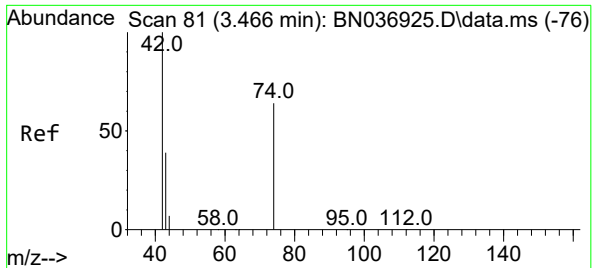
Tgt Ion: 152 Resp: 2604  
Ion Ratio Lower Upper  
152 100  
150 151.7 121.1 181.7  
115 64.8 51.8 77.6



#2  
1,4-Dioxane  
Concen: 0.440 ng  
RT: 3.155 min Scan# 38  
Delta R.T. -0.000 min  
Lab File: BN036933.D  
Acq: 29 Apr 2025 09:17

Tgt Ion: 88 Resp: 1429  
Ion Ratio Lower Upper  
88 100  
43 46.7 37.9 56.9  
58 83.3 65.8 98.6

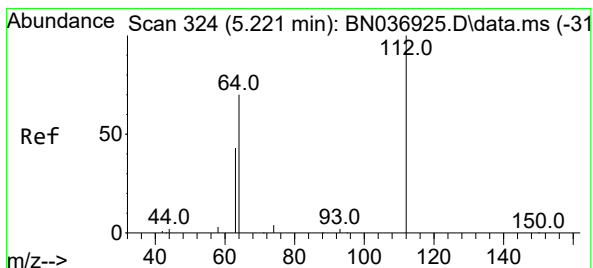
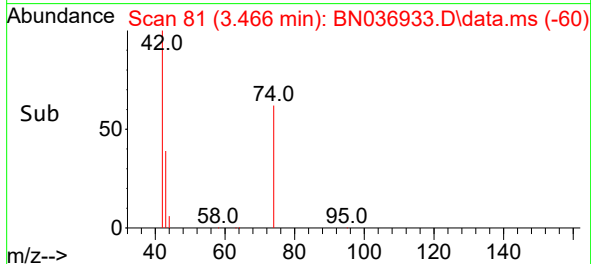
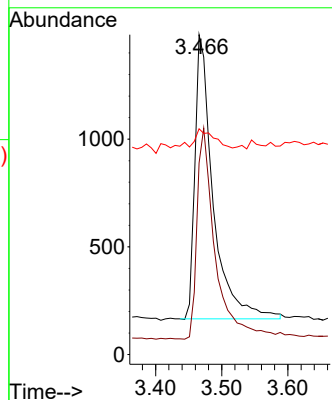
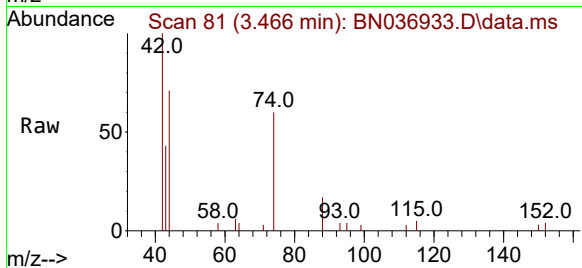




#3  
n-Nitrosodimethylamine  
Concen: 0.400 ng  
RT: 3.466 min Scan# 81  
Delta R.T. -0.000 min  
Lab File: BN036933.D  
Acq: 29 Apr 2025 09:17

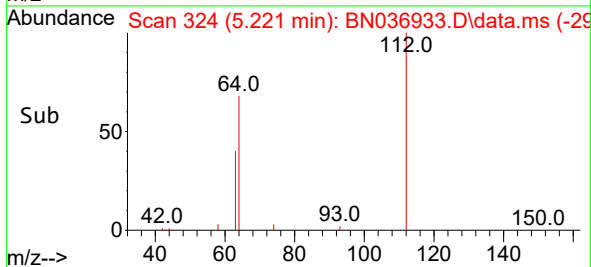
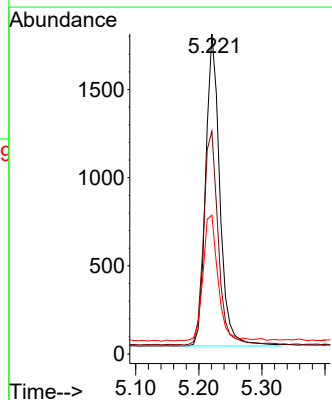
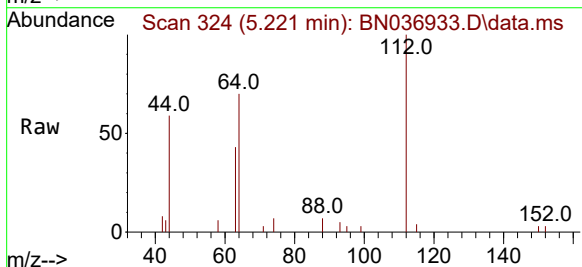
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

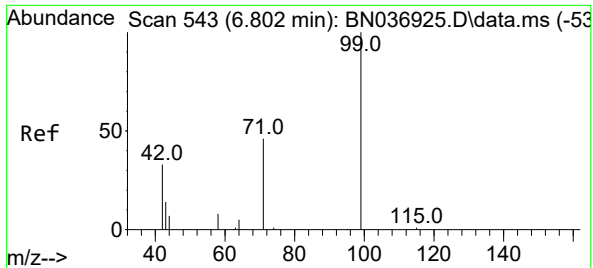
Tgt Ion: 42 Resp: 2520  
Ion Ratio Lower Upper  
42 100  
74 74.2 59.9 89.9  
44 9.0 7.5 11.3



#4  
2-Fluorophenol  
Concen: 0.414 ng  
RT: 5.221 min Scan# 324  
Delta R.T. -0.000 min  
Lab File: BN036933.D  
Acq: 29 Apr 2025 09:17

Tgt Ion: 112 Resp: 2755  
Ion Ratio Lower Upper  
112 100  
64 71.5 55.7 83.5  
63 42.6 33.9 50.9

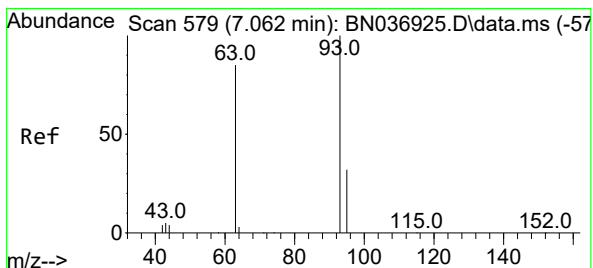
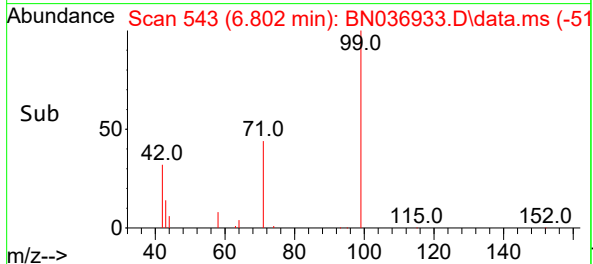
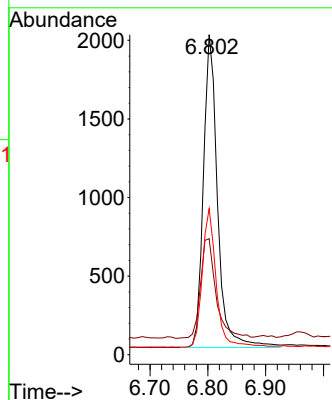
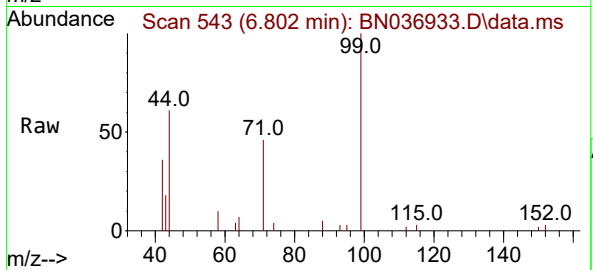




#5  
Phenol-d6  
Concen: 0.413 ng  
RT: 6.802 min Scan# 543  
Delta R.T. -0.000 min  
Lab File: BN036933.D  
Acq: 29 Apr 2025 09:17

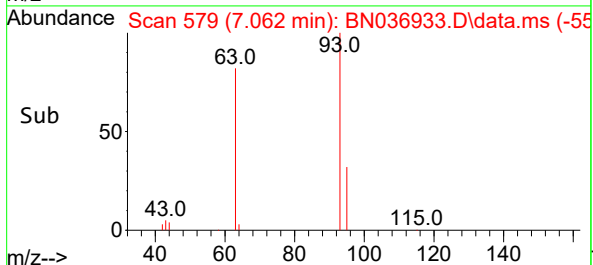
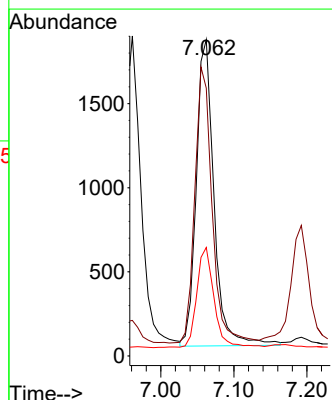
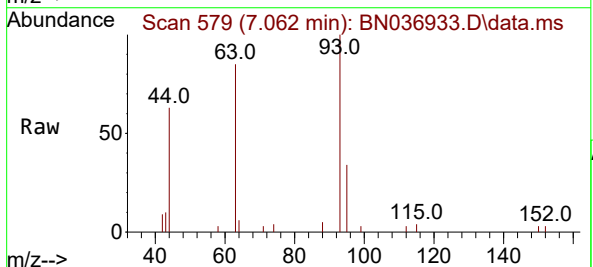
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

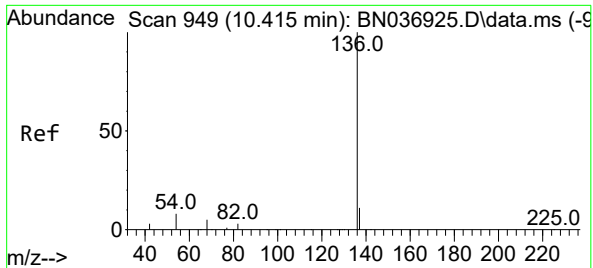
Tgt Ion: 99 Resp: 3390  
Ion Ratio Lower Upper  
99 100  
42 34.7 29.6 44.4  
71 43.8 36.0 54.0



#6  
bis(2-Chloroethyl)ether  
Concen: 0.404 ng  
RT: 7.062 min Scan# 579  
Delta R.T. -0.000 min  
Lab File: BN036933.D  
Acq: 29 Apr 2025 09:17

Tgt Ion: 93 Resp: 3072  
Ion Ratio Lower Upper  
93 100  
63 87.5 69.0 103.6  
95 31.9 25.4 38.0

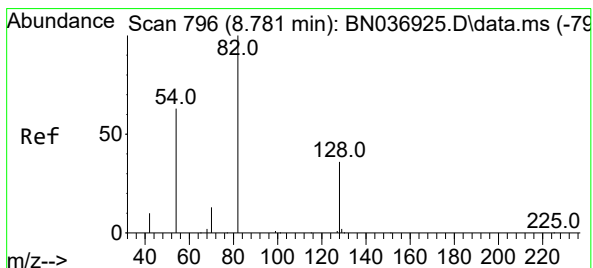
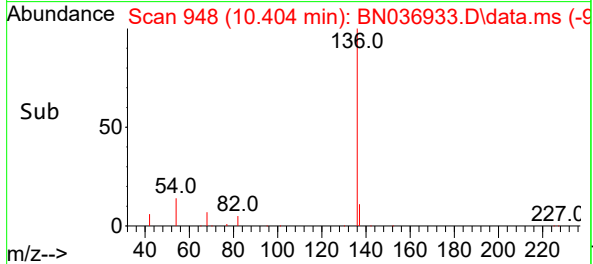
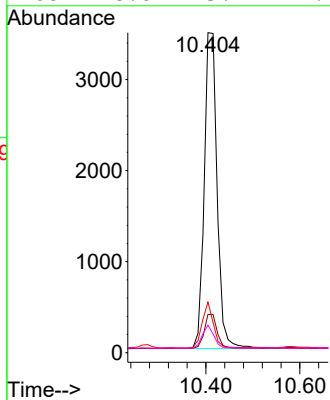
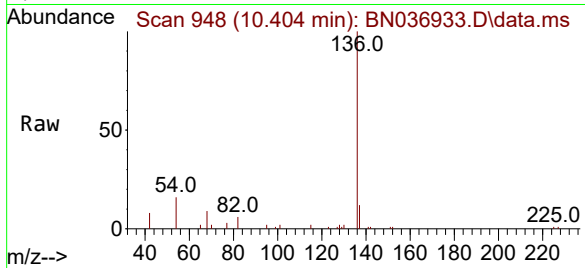




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.404 min Scan# 949  
Delta R.T. -0.011 min  
Lab File: BN036933.D  
Acq: 29 Apr 2025 09:17

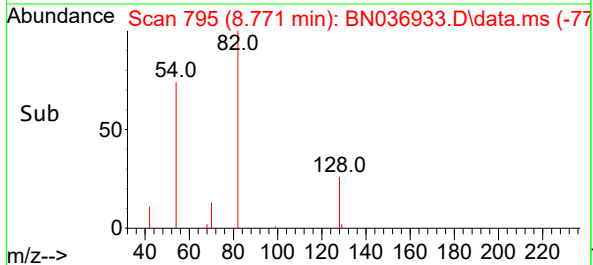
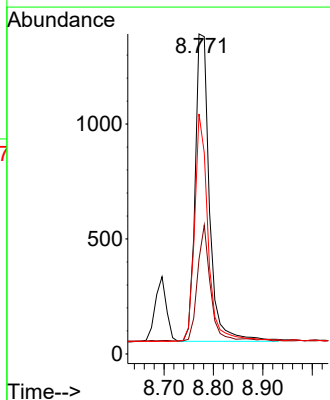
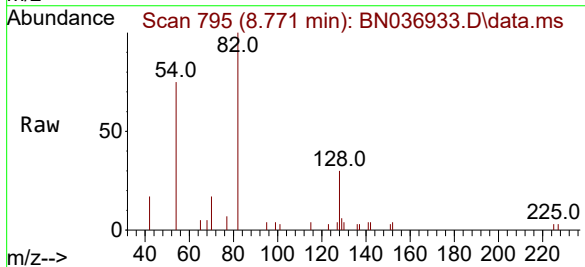
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

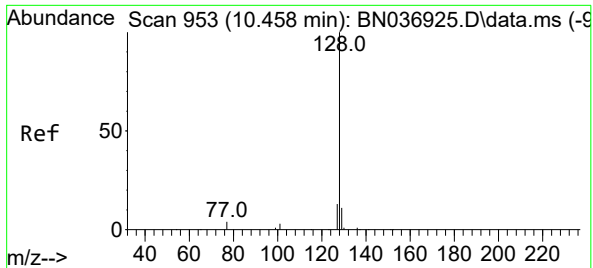
Tgt Ion:136 Resp: 6625  
Ion Ratio Lower Upper  
136 100  
137 11.9 9.7 14.5  
54 15.8 8.0 12.0#  
68 8.6 5.1 7.7#



#8  
Nitrobenzene-d5  
Concen: 0.389 ng  
RT: 8.771 min Scan# 795  
Delta R.T. -0.011 min  
Lab File: BN036933.D  
Acq: 29 Apr 2025 09:17

Tgt Ion: 82 Resp: 2694  
Ion Ratio Lower Upper  
82 100  
128 29.5 30.7 46.1#  
54 75.0 52.1 78.1

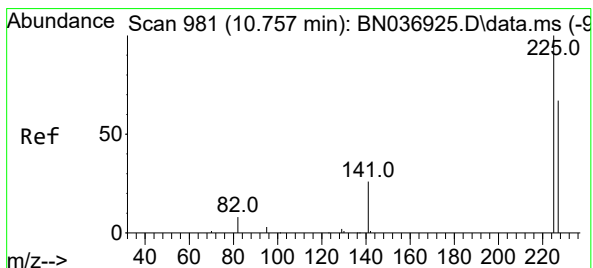
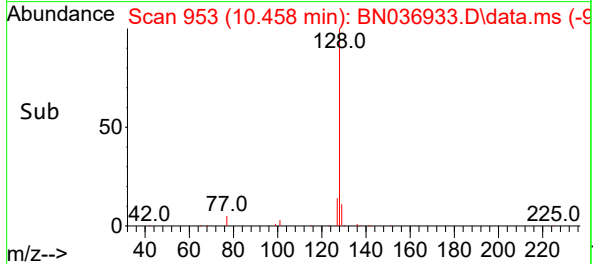
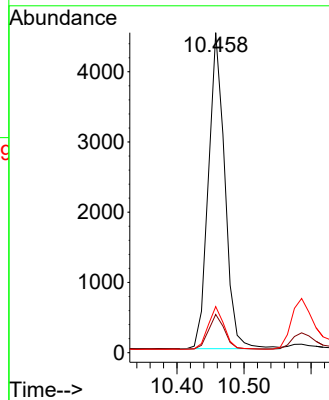
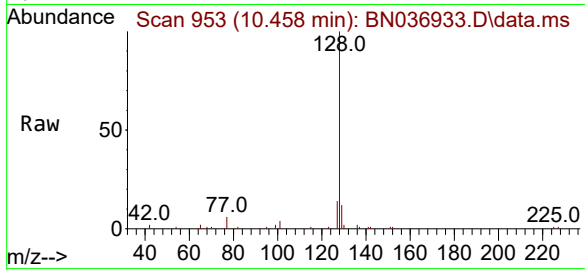




#9  
Naphthalene  
Concen: 0.397 ng  
RT: 10.458 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: BN036933.D  
Acq: 29 Apr 2025 09:17

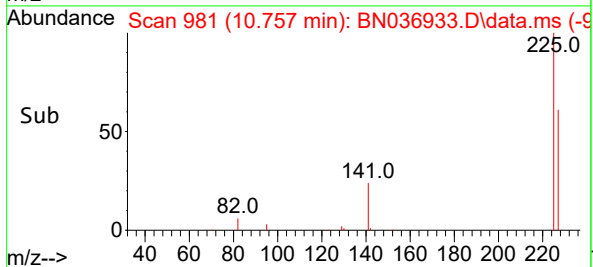
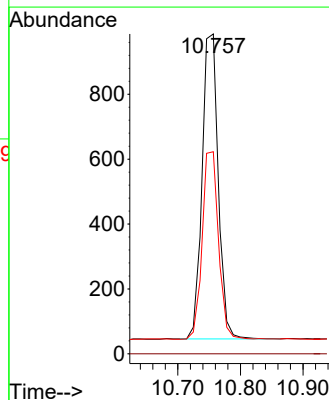
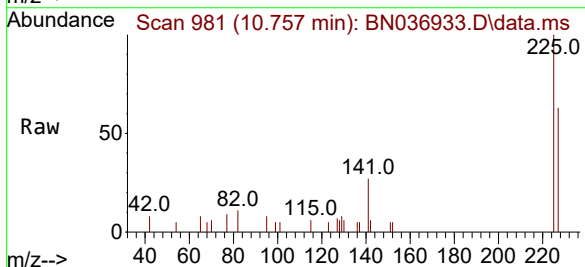
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

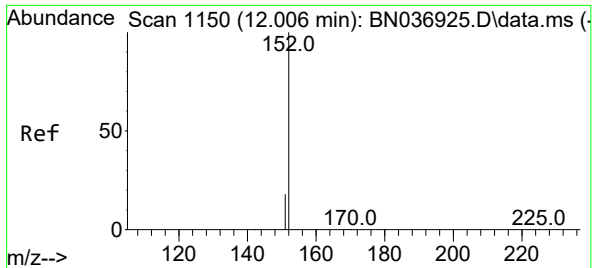
Tgt Ion:128 Resp: 7647  
Ion Ratio Lower Upper  
128 100  
129 11.9 9.8 14.6  
127 14.4 11.4 17.2



#10  
Hexachlorobutadiene  
Concen: 0.404 ng  
RT: 10.757 min Scan# 981  
Delta R.T. -0.000 min  
Lab File: BN036933.D  
Acq: 29 Apr 2025 09:17

Tgt Ion:225 Resp: 1687  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 62.2 52.2 78.4

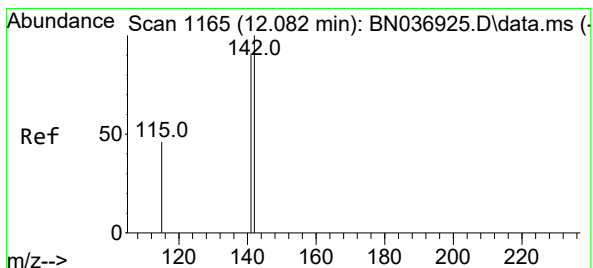
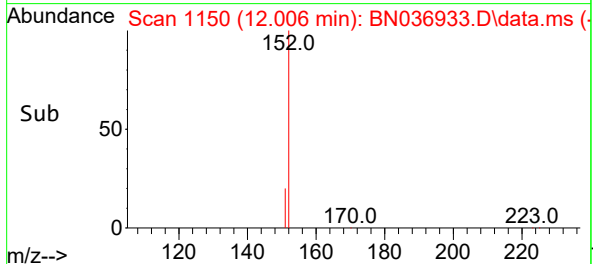
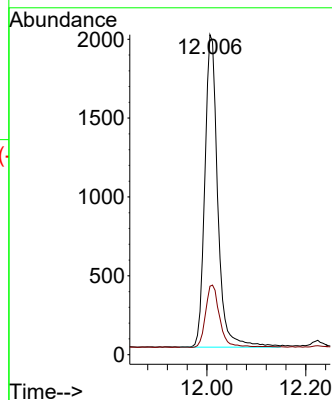
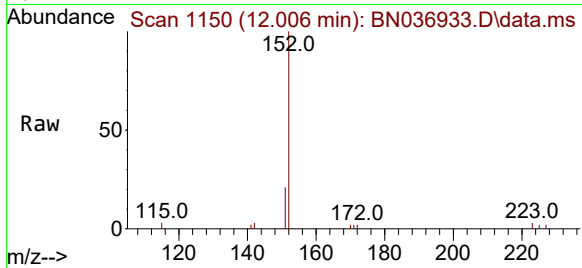




#11  
2-Methylnaphthalene-d10  
Concen: 0.387 ng  
RT: 12.006 min Scan# 1150  
Delta R.T. -0.000 min  
Lab File: BN036933.D  
Acq: 29 Apr 2025 09:17

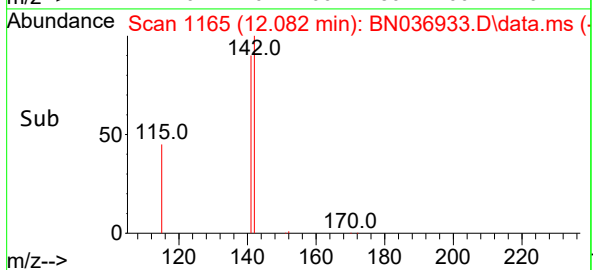
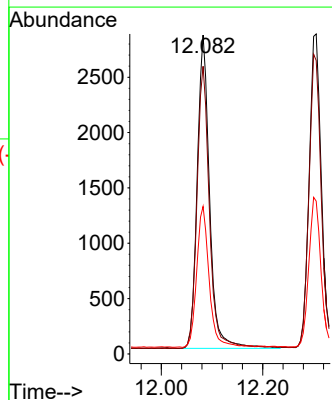
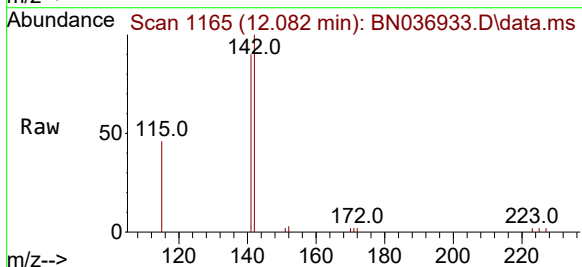
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

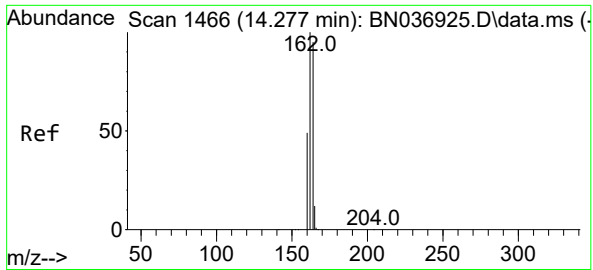
Tgt Ion:152 Resp: 3590  
Ion Ratio Lower Upper  
152 100  
151 21.5 16.9 25.3



#12  
2-Methylnaphthalene  
Concen: 0.387 ng  
RT: 12.082 min Scan# 1165  
Delta R.T. -0.000 min  
Lab File: BN036933.D  
Acq: 29 Apr 2025 09:17

Tgt Ion:142 Resp: 4827  
Ion Ratio Lower Upper  
142 100  
141 90.2 72.8 109.2  
115 46.3 38.2 57.4

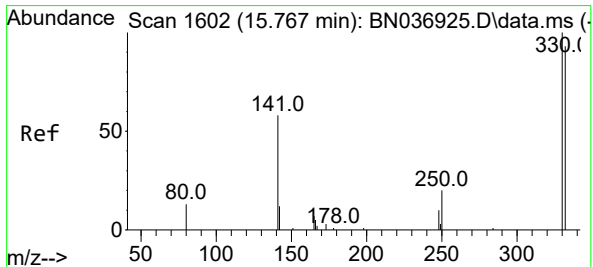
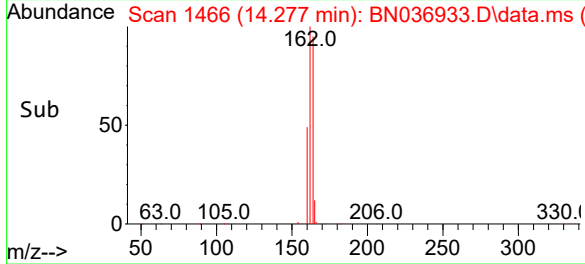
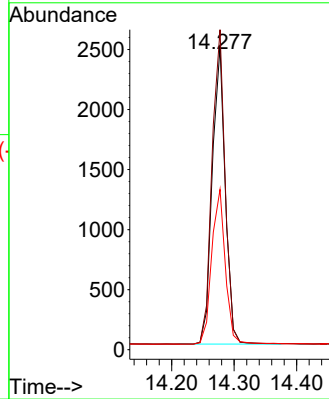
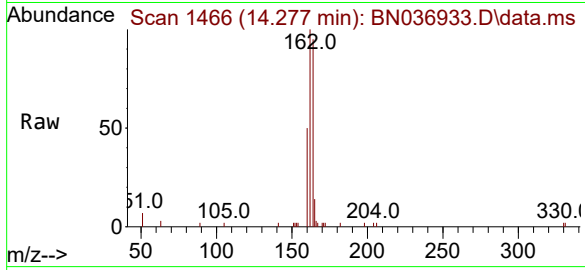




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.277 min Scan# 1466  
Delta R.T. -0.000 min  
Lab File: BN036933.D  
Acq: 29 Apr 2025 09:17

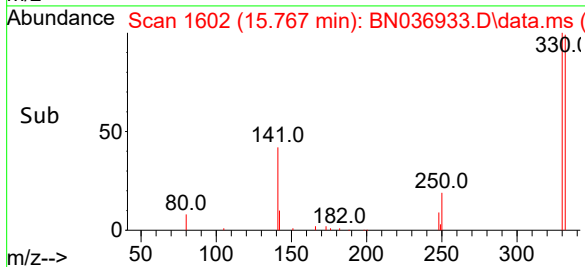
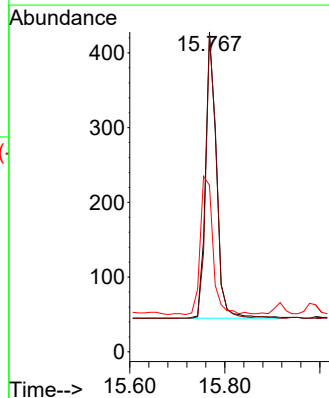
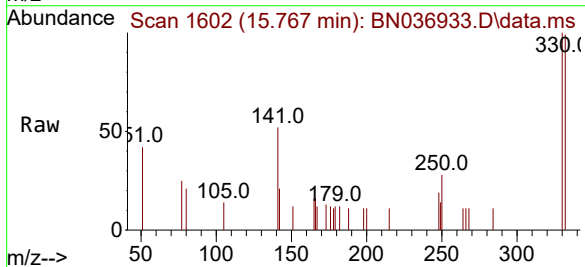
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

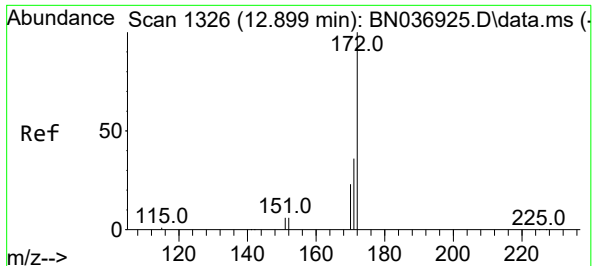
Tgt Ion:164 Resp: 3573  
Ion Ratio Lower Upper  
164 100  
162 105.7 83.8 125.8  
160 52.9 42.0 63.0



#14  
2,4,6-Tribromophenol  
Concen: 0.385 ng  
RT: 15.767 min Scan# 1602  
Delta R.T. -0.000 min  
Lab File: BN036933.D  
Acq: 29 Apr 2025 09:17

Tgt Ion:330 Resp: 613  
Ion Ratio Lower Upper  
330 100  
332 96.4 76.3 114.5  
141 56.4 45.4 68.2





#15

2-Fluorobiphenyl

Concen: 0.404 ng

RT: 12.899 min Scan# 1439

Delta R.T. -0.000 min

Lab File: BN036933.D

Acq: 29 Apr 2025 09:17

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

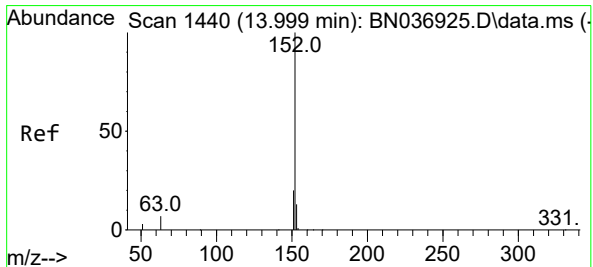
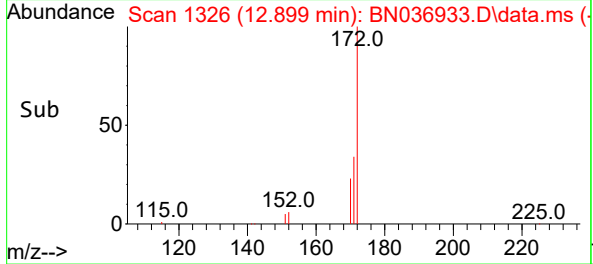
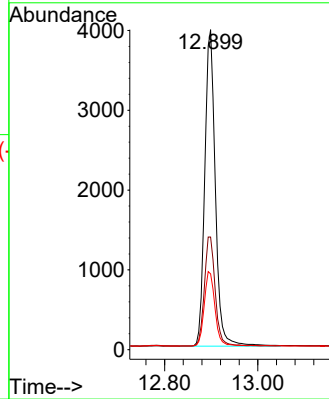
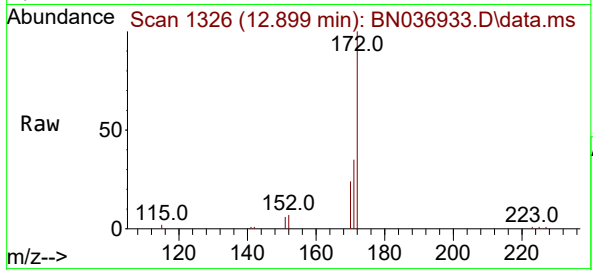
Tgt Ion:172 Resp: 6977

Ion Ratio Lower Upper

172 100

171 35.2 29.4 44.0

170 23.7 19.4 29.0



#16

Acenaphthylene

Concen: 0.389 ng

RT: 13.989 min Scan# 1439

Delta R.T. -0.011 min

Lab File: BN036933.D

Acq: 29 Apr 2025 09:17

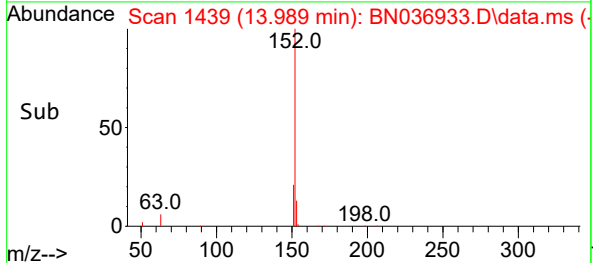
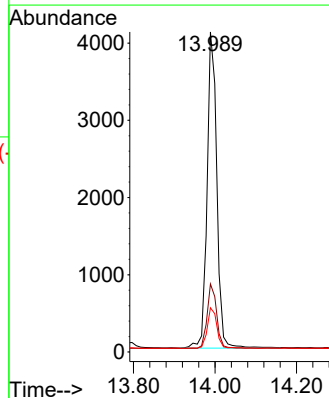
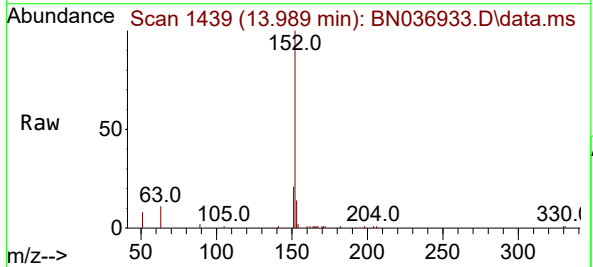
Tgt Ion:152 Resp: 6799

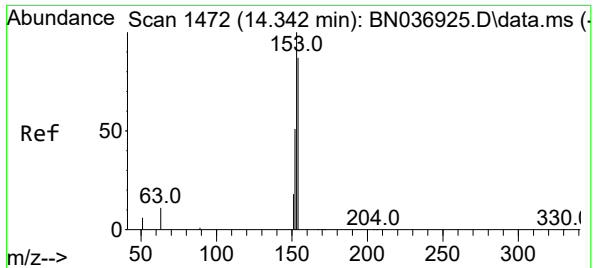
Ion Ratio Lower Upper

152 100

151 19.9 16.0 24.0

153 13.0 10.2 15.2

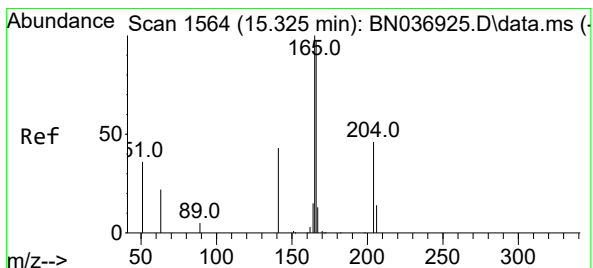
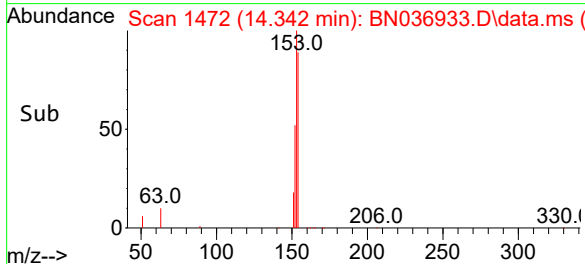
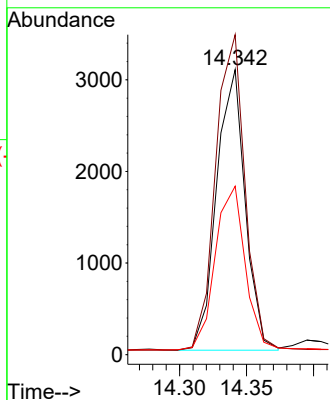
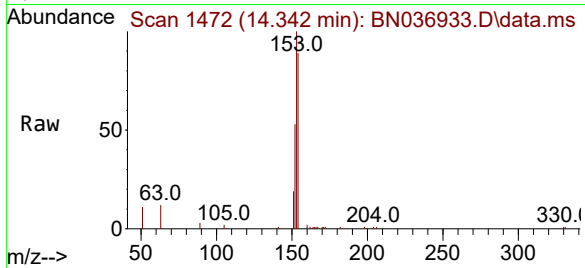




#17  
Acenaphthene  
Concen: 0.396 ng  
RT: 14.342 min Scan# 1472  
Delta R.T. -0.000 min  
Lab File: BN036933.D  
Acq: 29 Apr 2025 09:17

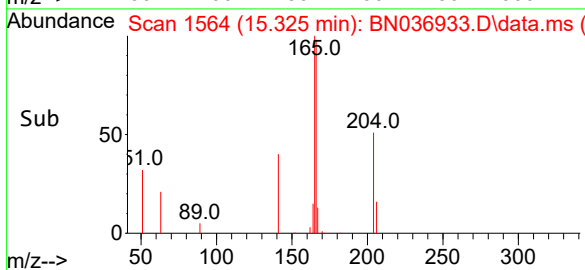
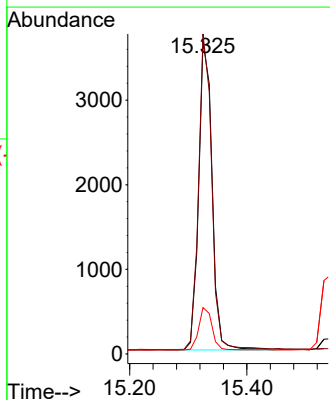
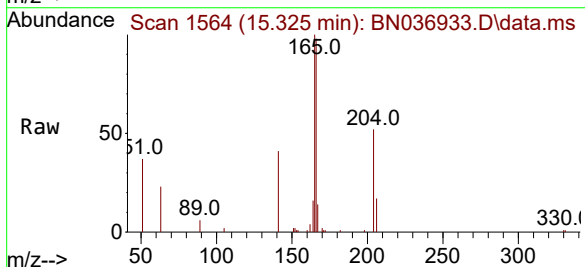
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

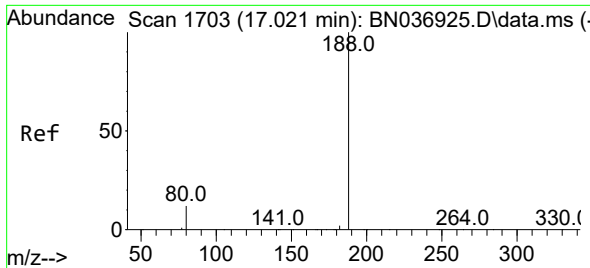
Tgt Ion:154 Resp: 4543  
Ion Ratio Lower Upper  
154 100  
153 116.5 93.4 140.2  
152 61.6 49.5 74.3



#18  
Fluorene  
Concen: 0.388 ng  
RT: 15.325 min Scan# 1564  
Delta R.T. -0.000 min  
Lab File: BN036933.D  
Acq: 29 Apr 2025 09:17

Tgt Ion:166 Resp: 5827  
Ion Ratio Lower Upper  
166 100  
165 99.9 80.8 121.2  
167 13.7 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.021 min Scan# 11

Delta R.T. -0.000 min

Lab File: BN036933.D

Acq: 29 Apr 2025 09:17

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

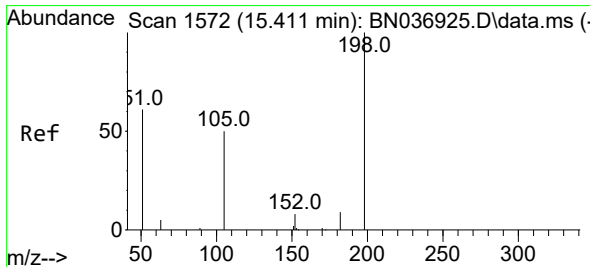
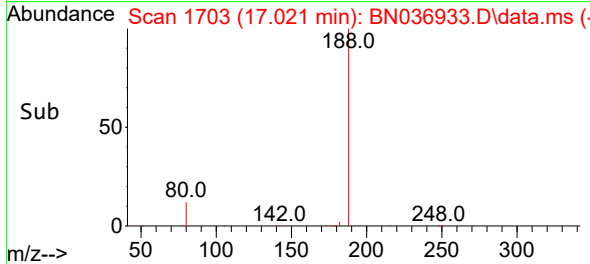
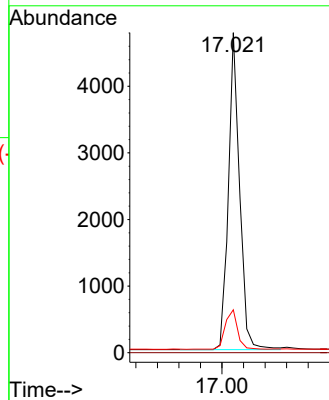
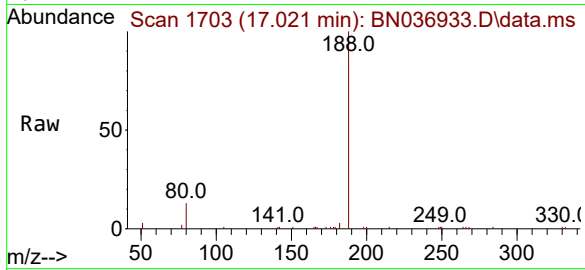
Tgt Ion:188 Resp: 6894

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 13.4 10.7 16.1



#20

4,6-Dinitro-2-methylphenol

Concen: 0.328 ng

RT: 15.411 min Scan# 1572

Delta R.T. -0.000 min

Lab File: BN036933.D

Acq: 29 Apr 2025 09:17

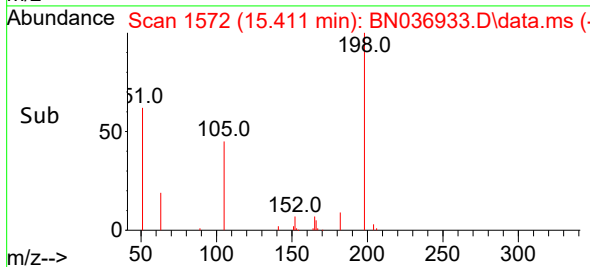
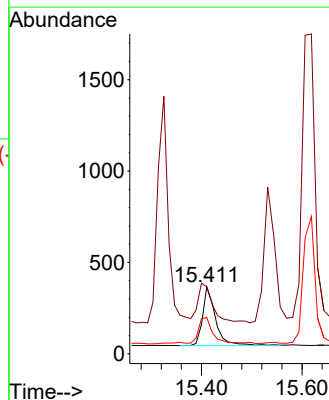
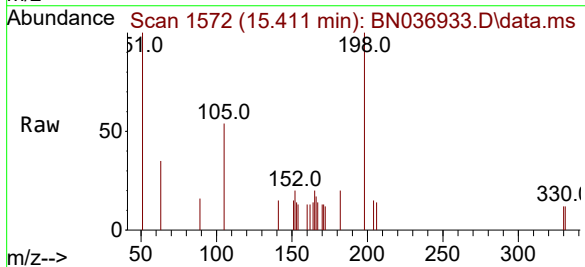
Tgt Ion:198 Resp: 599

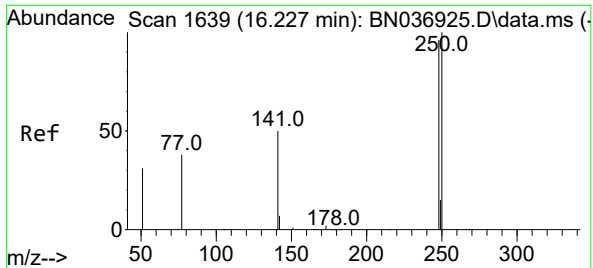
Ion Ratio Lower Upper

198 100

51 99.7 97.9 146.9

105 54.2 50.0 75.0

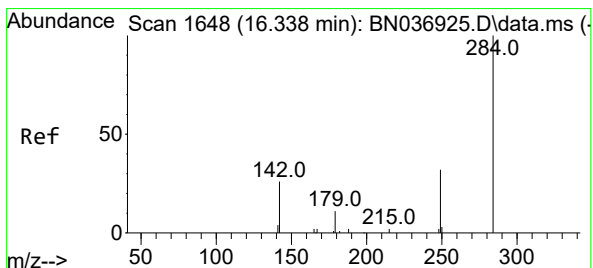
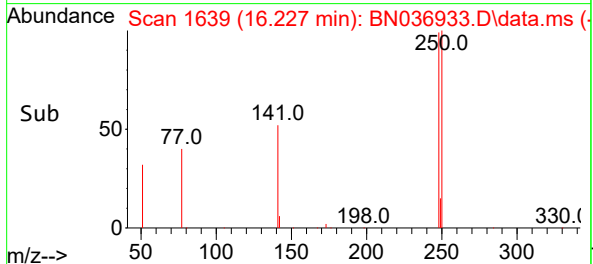
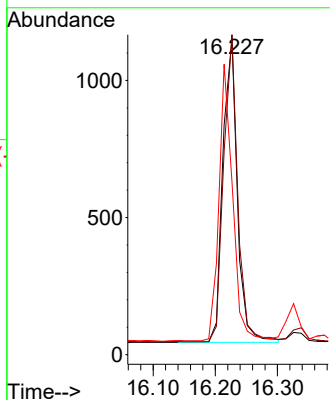
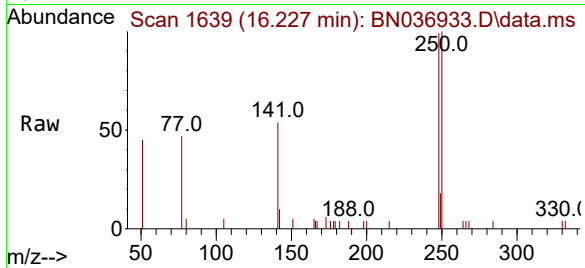




#21  
4-Bromophenyl-phenylether  
Concen: 0.388 ng  
RT: 16.227 min Scan# 1639  
Delta R.T. -0.000 min  
Lab File: BN036933.D  
Acq: 29 Apr 2025 09:17

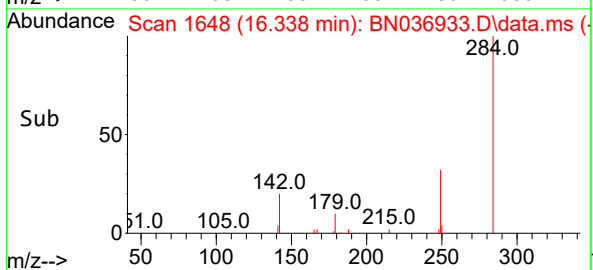
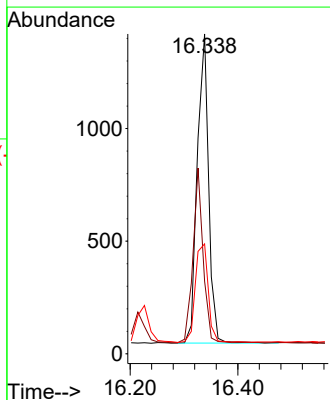
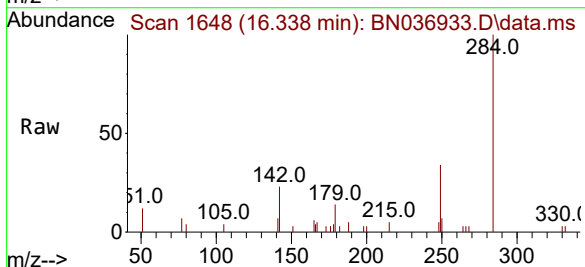
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

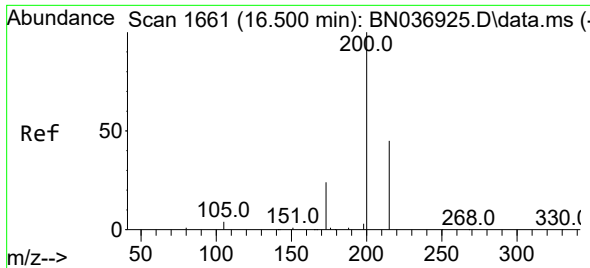
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 248     | 100   |       |       |
| 250     | 101.0 | 83.7  | 125.5 |
| 141     | 54.7  | 43.8  | 65.8  |



#22  
Hexachlorobenzene  
Concen: 0.400 ng  
RT: 16.338 min Scan# 1648  
Delta R.T. -0.000 min  
Lab File: BN036933.D  
Acq: 29 Apr 2025 09:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 284     | 100   |       |       |
| 142     | 50.4  | 40.0  | 60.0  |
| 249     | 36.3  | 28.2  | 42.2  |

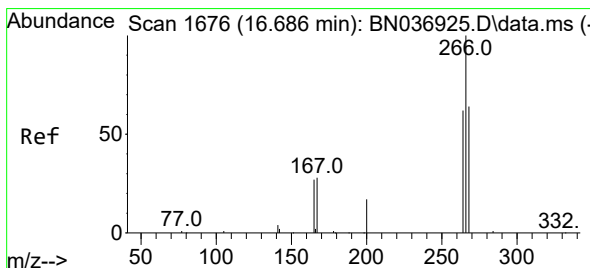
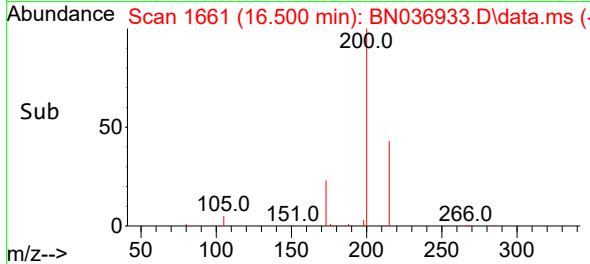
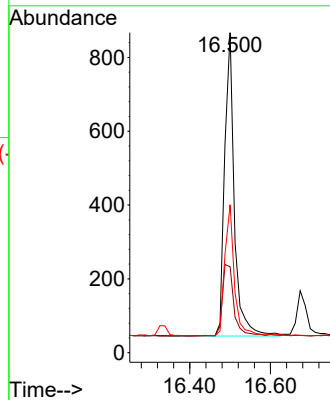
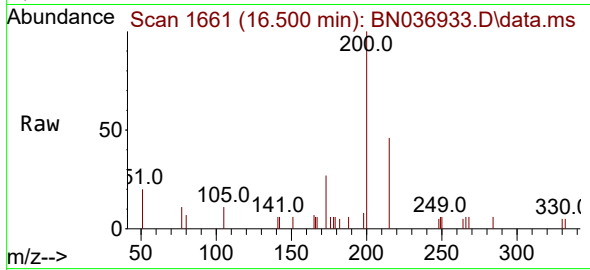




#23  
 Atrazine  
 Concen: 0.370 ng  
 RT: 16.500 min Scan# 1661  
 Delta R.T. -0.000 min  
 Lab File: BN036933.D  
 Acq: 29 Apr 2025 09:17

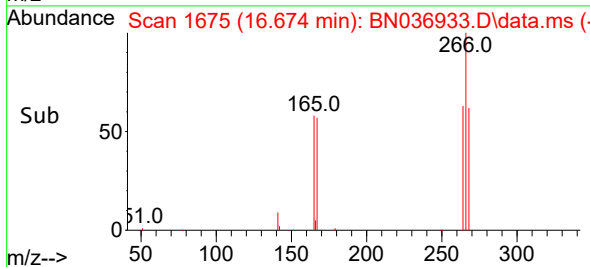
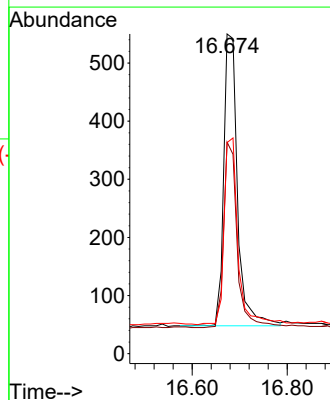
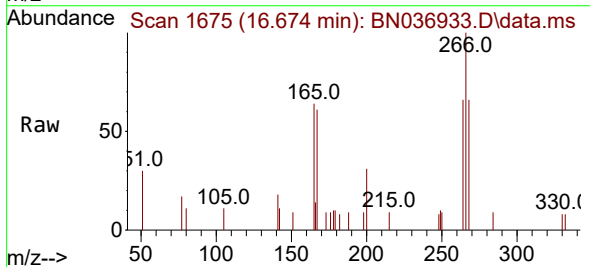
Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4

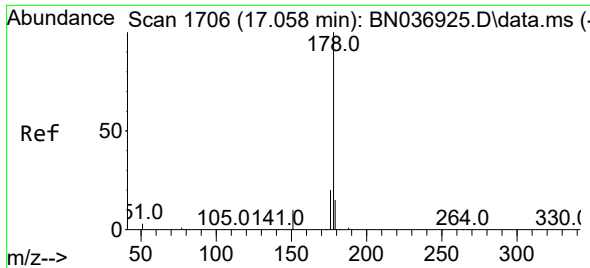
Tgt Ion:200 Resp: 1374  
 Ion Ratio Lower Upper  
 200 100  
 173 26.9 22.4 33.6  
 215 46.3 38.6 57.8



#24  
 Pentachlorophenol  
 Concen: 0.373 ng  
 RT: 16.674 min Scan# 1675  
 Delta R.T. -0.012 min  
 Lab File: BN036933.D  
 Acq: 29 Apr 2025 09:17

Tgt Ion:266 Resp: 1008  
 Ion Ratio Lower Upper  
 266 100  
 264 62.7 49.9 74.9  
 268 64.5 52.2 78.4

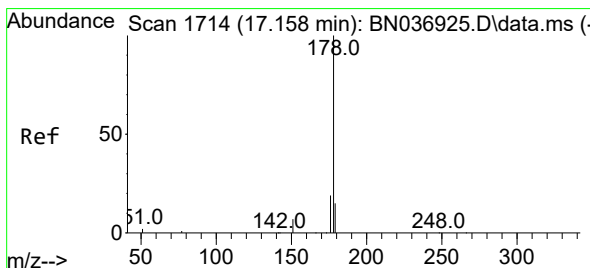
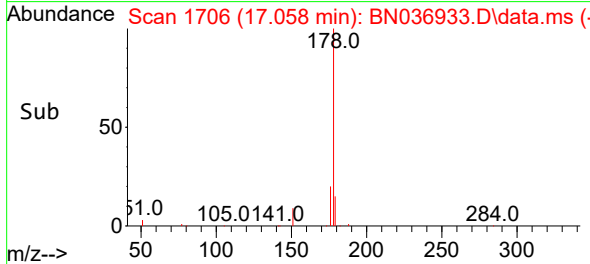
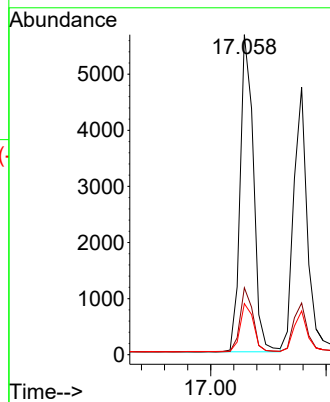
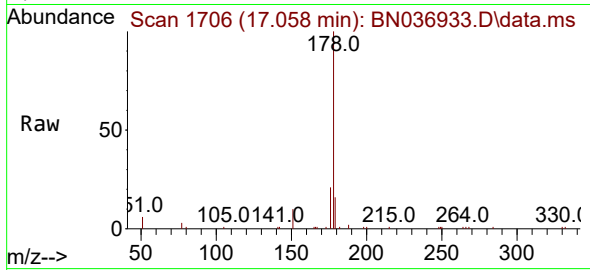




#25  
Phenanthrene  
Concen: 0.397 ng  
RT: 17.058 min Scan# 1706  
Delta R.T. -0.000 min  
Lab File: BN036933.D  
Acq: 29 Apr 2025 09:17

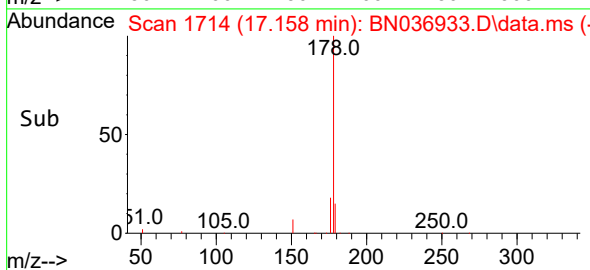
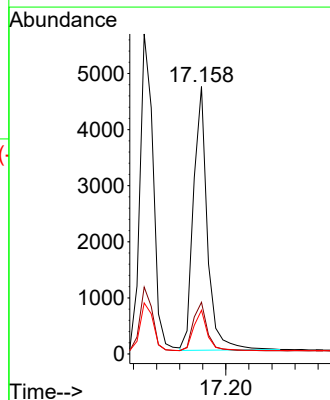
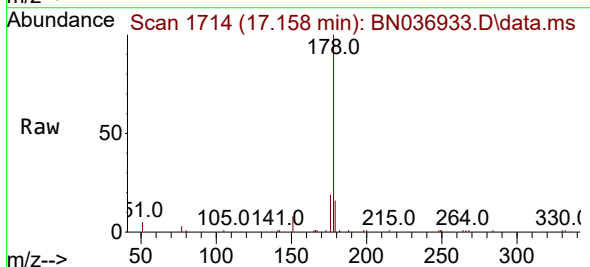
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

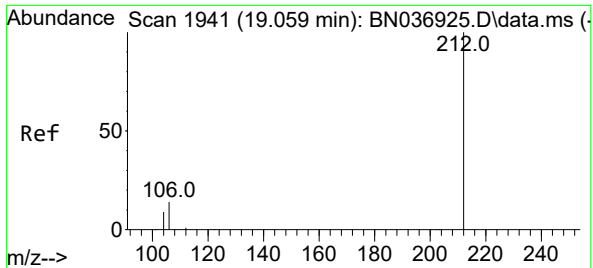
Tgt Ion:178 Resp: 9028  
Ion Ratio Lower Upper  
178 100  
176 19.6 15.7 23.5  
179 15.2 12.4 18.6



#26  
Anthracene  
Concen: 0.383 ng  
RT: 17.158 min Scan# 1714  
Delta R.T. -0.000 min  
Lab File: BN036933.D  
Acq: 29 Apr 2025 09:17

Tgt Ion:178 Resp: 7875  
Ion Ratio Lower Upper  
178 100  
176 18.9 15.3 22.9  
179 15.3 12.1 18.1

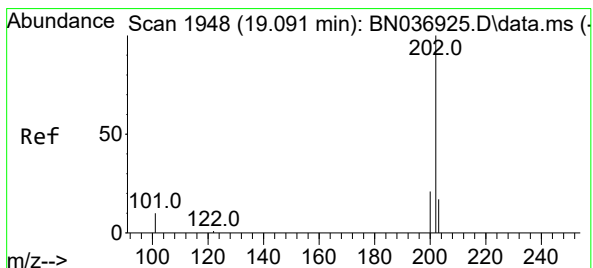
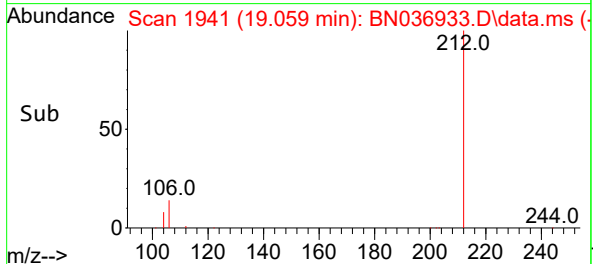
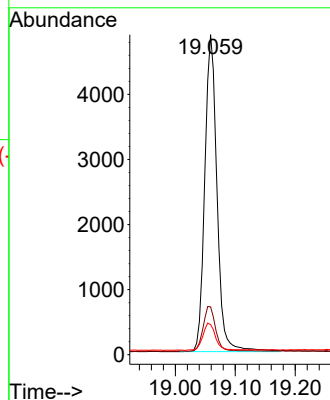
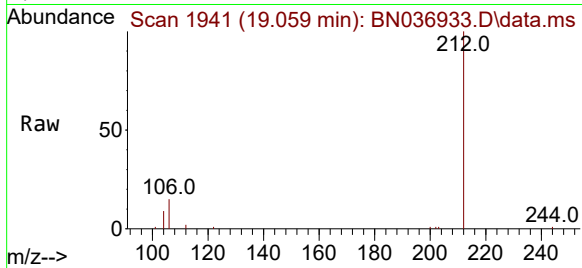




#27  
Fluoranthene-d10  
Concen: 0.385 ng  
RT: 19.059 min Scan# 1941  
Delta R.T. -0.000 min  
Lab File: BN036933.D  
Acq: 29 Apr 2025 09:17

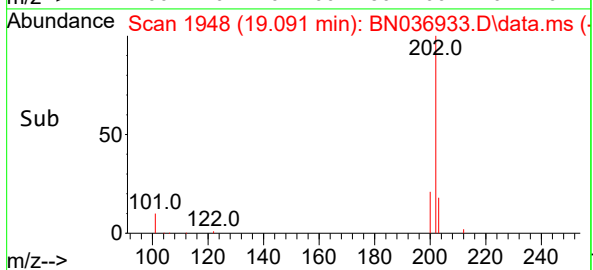
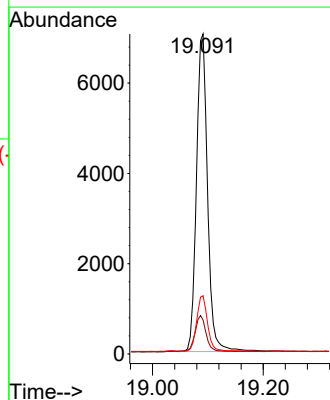
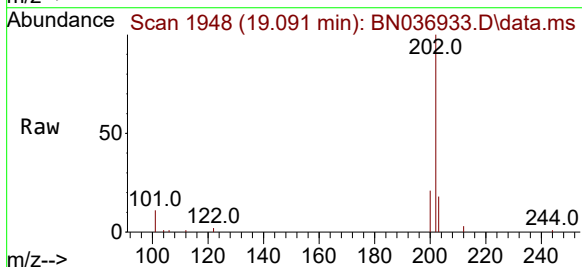
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

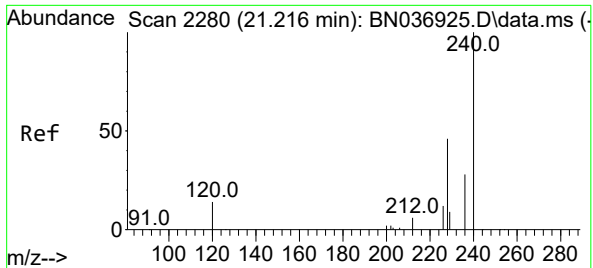
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 212     | 100   |       |       |
| 106     | 14.4  | 11.6  | 17.4  |
| 104     | 8.9   | 7.0   | 10.4  |



#28  
Fluoranthene  
Concen: 0.386 ng  
RT: 19.091 min Scan# 1948  
Delta R.T. -0.000 min  
Lab File: BN036933.D  
Acq: 29 Apr 2025 09:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 11.4  | 8.5   | 12.7  |
| 203     | 17.2  | 13.7  | 20.5  |





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.216 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036933.D

Acq: 29 Apr 2025 09:17

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

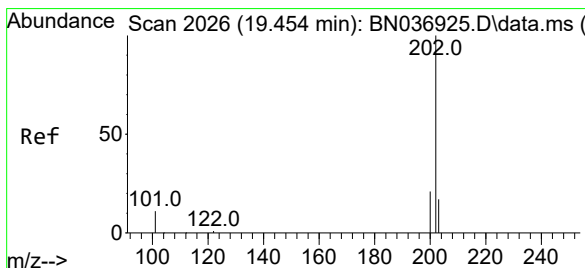
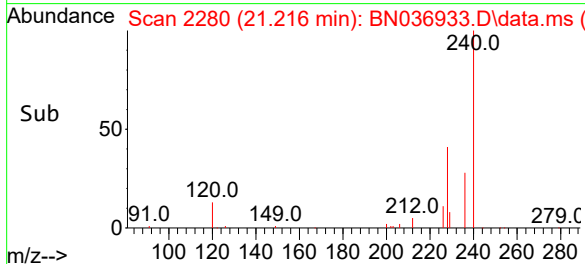
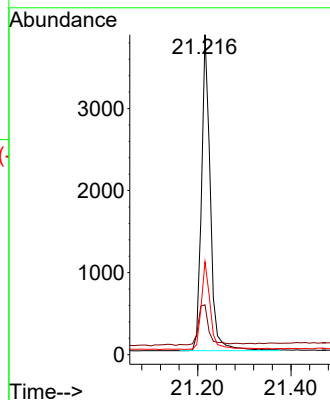
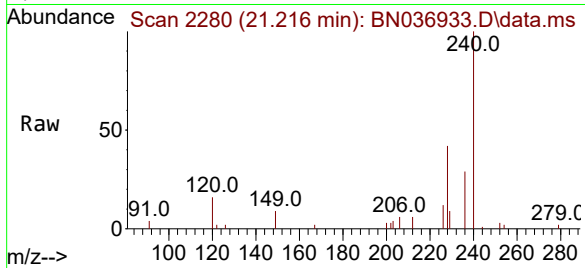
Tgt Ion:240 Resp: 5083

Ion Ratio Lower Upper

240 100

120 15.6 14.1 21.1

236 29.1 23.8 35.8



#30

Pyrene

Concen: 0.400 ng

RT: 19.454 min Scan# 2026

Delta R.T. -0.000 min

Lab File: BN036933.D

Acq: 29 Apr 2025 09:17

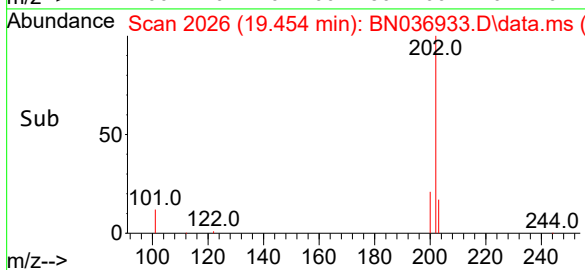
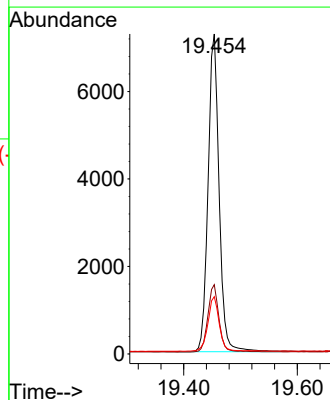
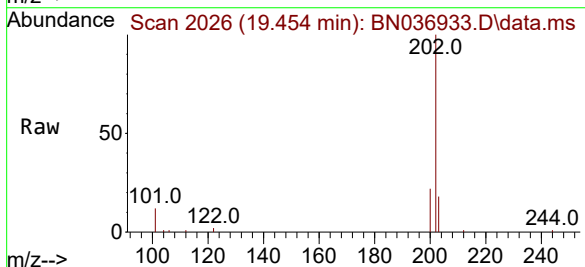
Tgt Ion:202 Resp: 9791

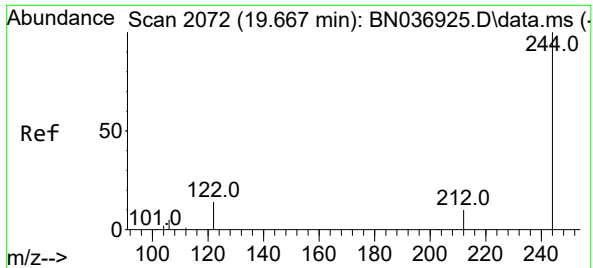
Ion Ratio Lower Upper

202 100

200 21.2 17.0 25.6

203 17.5 14.0 21.0

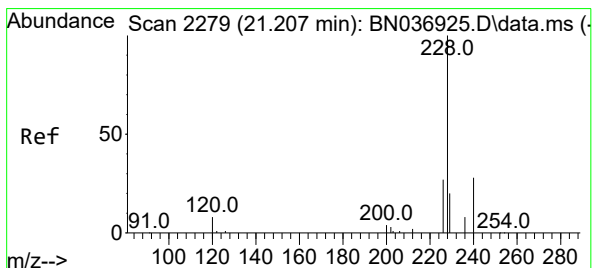
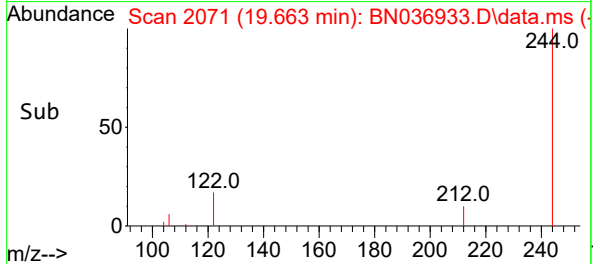
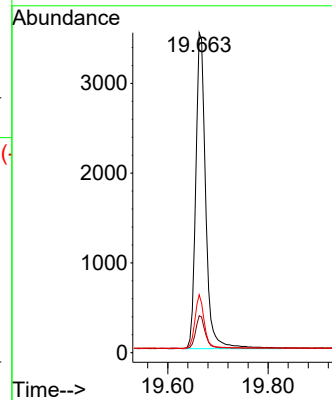
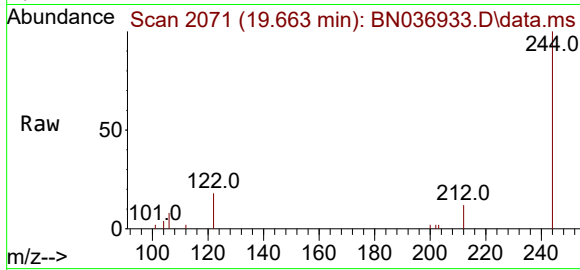




#31  
Terphenyl-d14  
Concen: 0.403 ng  
RT: 19.663 min Scan# 2072  
Delta R.T. -0.005 min  
Lab File: BN036933.D  
Acq: 29 Apr 2025 09:17

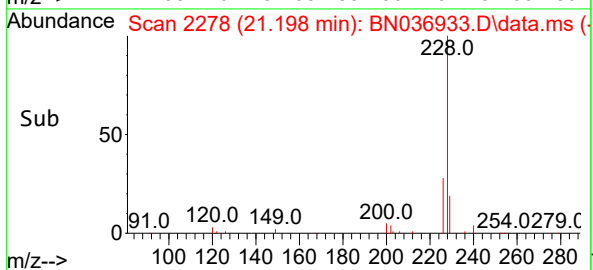
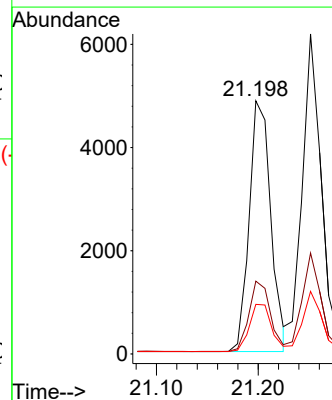
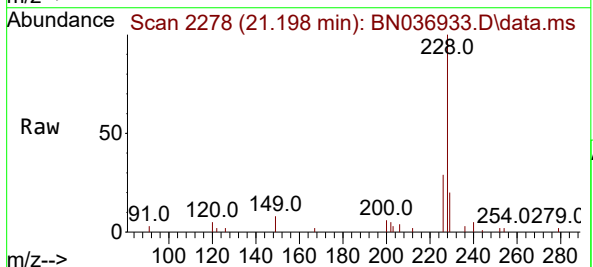
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

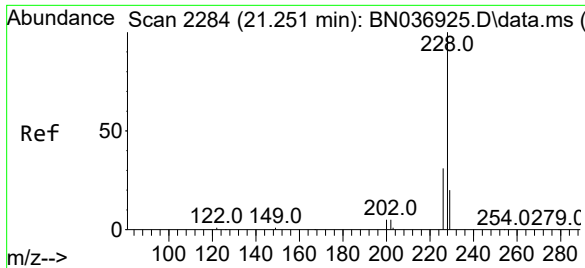
Tgt Ion:244 Resp: 4832  
Ion Ratio Lower Upper  
244 100  
212 11.6 9.6 14.4  
122 18.1 12.7 19.1



#32  
Benzo(a)anthracene  
Concen: 0.383 ng  
RT: 21.198 min Scan# 2278  
Delta R.T. -0.009 min  
Lab File: BN036933.D  
Acq: 29 Apr 2025 09:17

Tgt Ion:228 Resp: 7169  
Ion Ratio Lower Upper  
228 100  
226 28.8 22.2 33.4  
229 19.6 16.4 24.6





#33

Chrysene

Concen: 0.416 ng

RT: 21.251 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036933.D

Acq: 29 Apr 2025 09:17

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

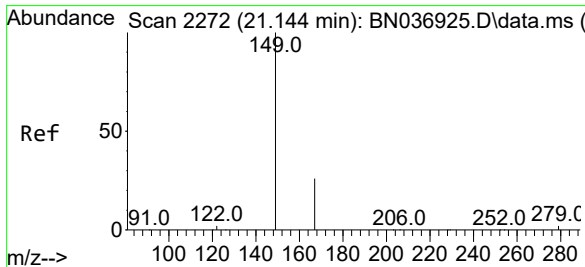
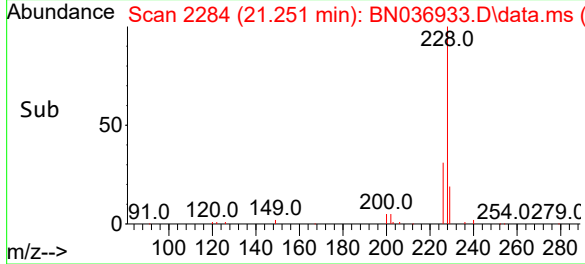
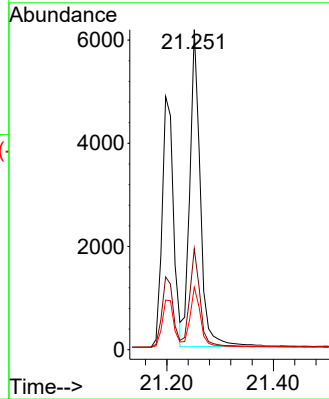
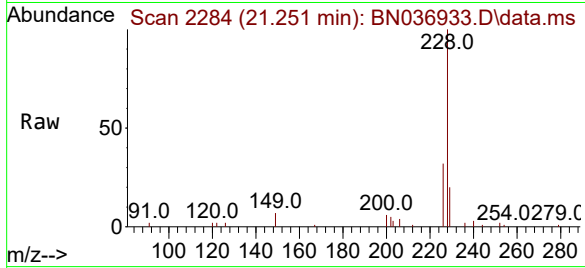
Tgt Ion:228 Resp: 8393

Ion Ratio Lower Upper

228 100

226 31.5 25.5 38.3

229 19.5 16.5 24.7



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.361 ng

RT: 21.144 min Scan# 2272

Delta R.T. -0.000 min

Lab File: BN036933.D

Acq: 29 Apr 2025 09:17

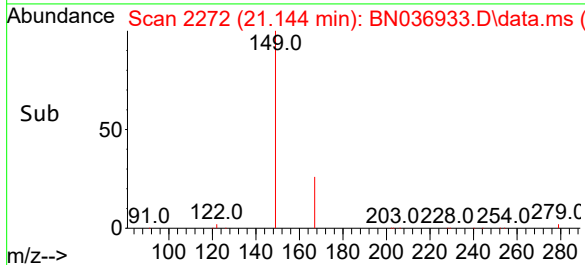
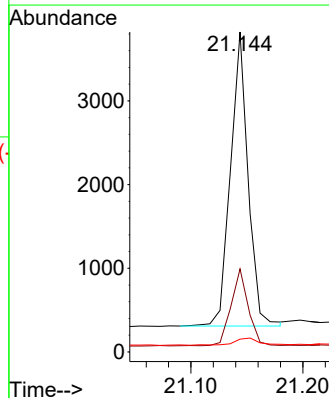
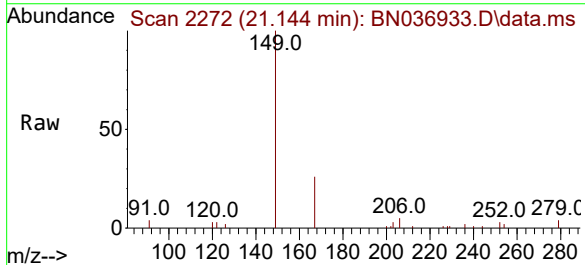
Tgt Ion:149 Resp: 3845

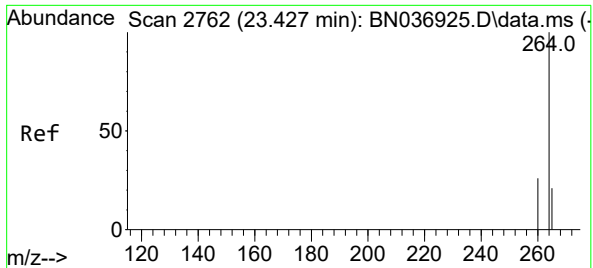
Ion Ratio Lower Upper

149 100

167 25.4 21.0 31.6

279 3.5 2.7 4.1

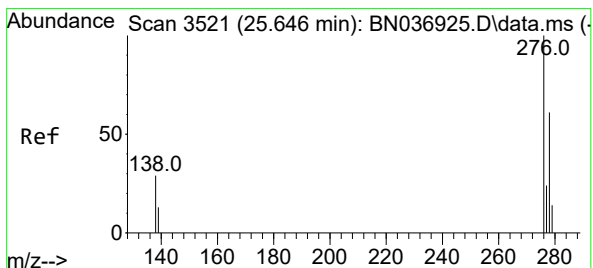
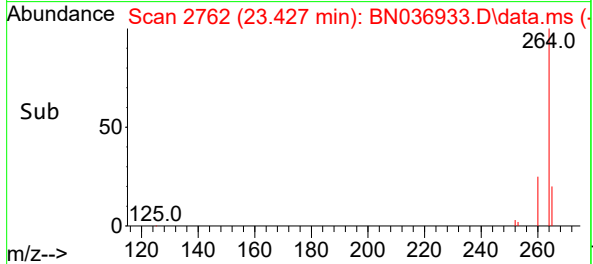
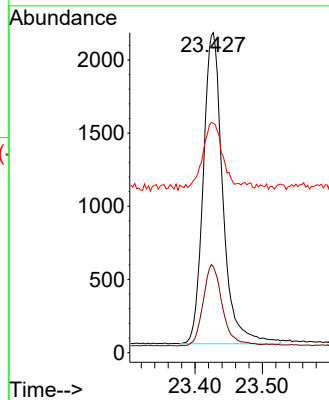
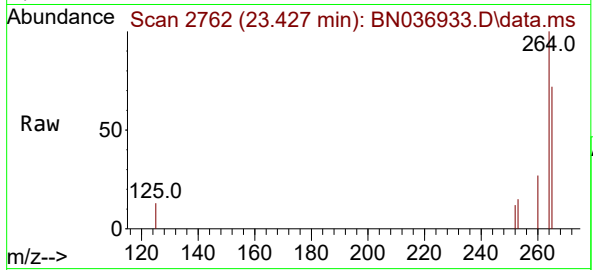




#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.427 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: BN036933.D  
Acq: 29 Apr 2025 09:17

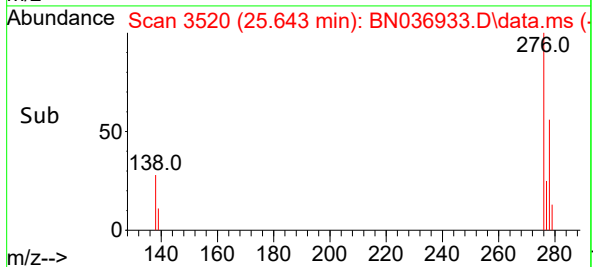
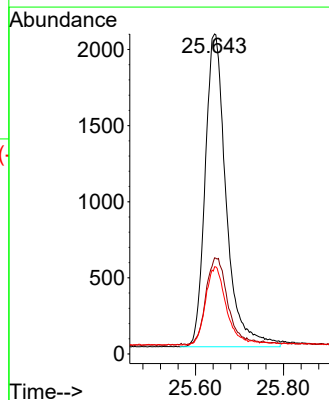
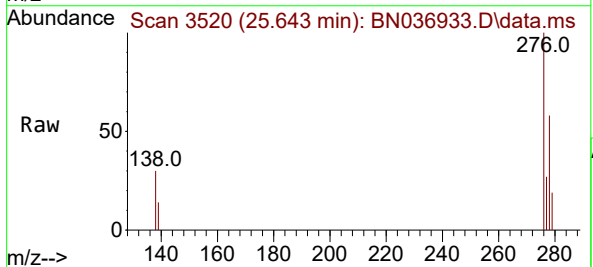
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

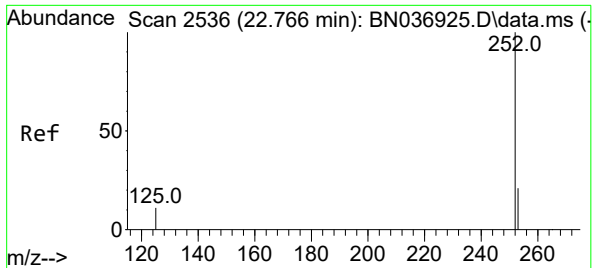
Tgt Ion:264 Resp: 4284  
Ion Ratio Lower Upper  
264 100  
260 26.9 22.2 33.2  
265 71.7 65.8 98.6



#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.391 ng  
RT: 25.643 min Scan# 3520  
Delta R.T. -0.003 min  
Lab File: BN036933.D  
Acq: 29 Apr 2025 09:17

Tgt Ion:276 Resp: 6842  
Ion Ratio Lower Upper  
276 100  
138 28.7 23.0 34.6  
277 24.4 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 0.397 ng

RT: 22.763 min Scan# 2535

Delta R.T. -0.003 min

Lab File: BN036933.D

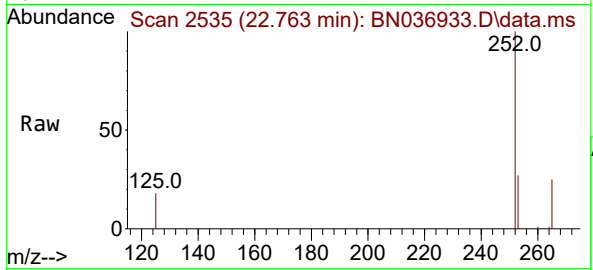
Acq: 29 Apr 2025 09:17

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4



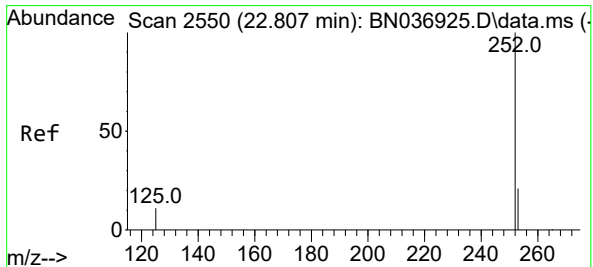
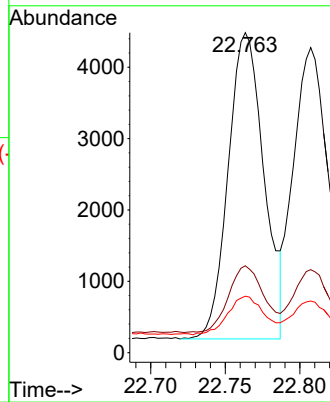
Tgt Ion:252 Resp: 7159

Ion Ratio Lower Upper

252 100

253 27.1 22.1 33.1

125 17.6 14.2 21.2



#38

Benzo(k)fluoranthene

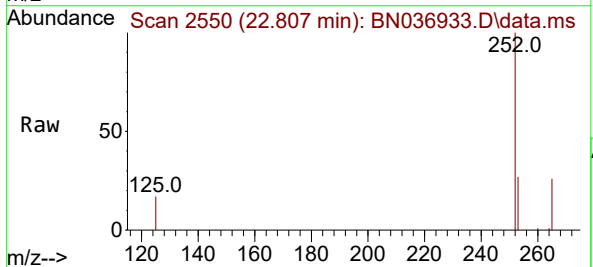
Concen: 0.388 ng

RT: 22.807 min Scan# 2550

Delta R.T. -0.000 min

Lab File: BN036933.D

Acq: 29 Apr 2025 09:17



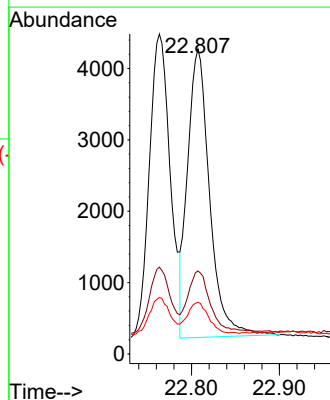
Tgt Ion:252 Resp: 7036

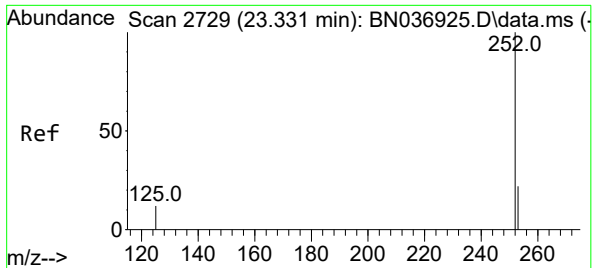
Ion Ratio Lower Upper

252 100

253 27.2 22.8 34.2

125 17.0 14.2 21.2





#39

Benzo(a)pyrene

Concen: 0.390 ng

RT: 23.328 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN036933.D

Acq: 29 Apr 2025 09:17

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

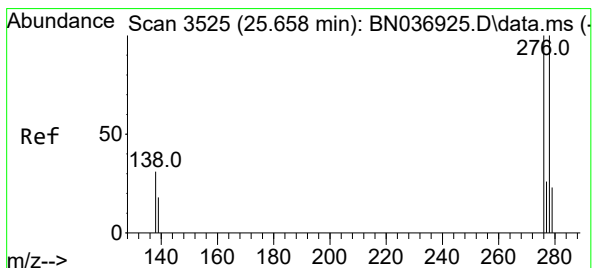
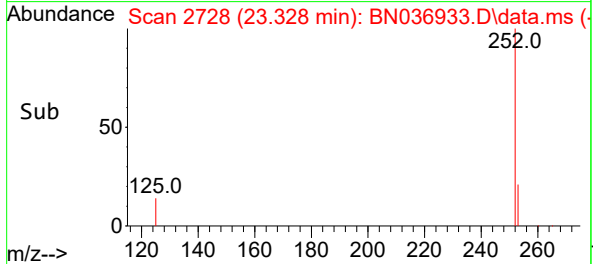
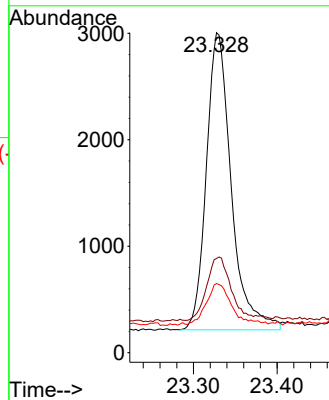
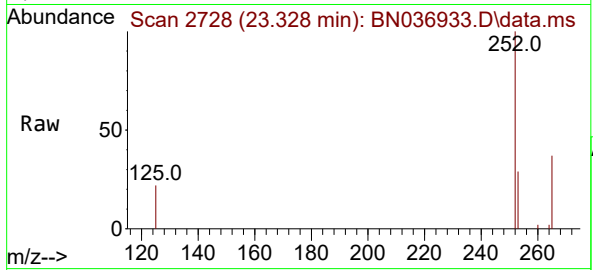
Tgt Ion:252 Resp: 5774

Ion Ratio Lower Upper

252 100

253 29.5 25.9 38.9

125 21.6 17.4 26.0



#40

Dibenzo(a,h)anthracene

Concen: 0.390 ng

RT: 25.658 min Scan# 3525

Delta R.T. -0.000 min

Lab File: BN036933.D

Acq: 29 Apr 2025 09:17

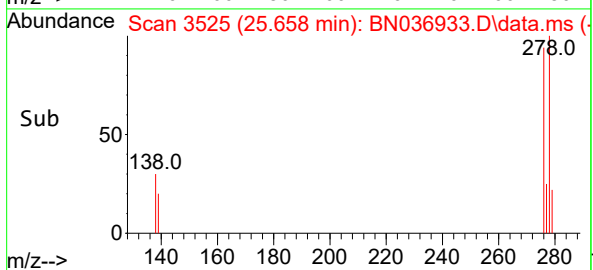
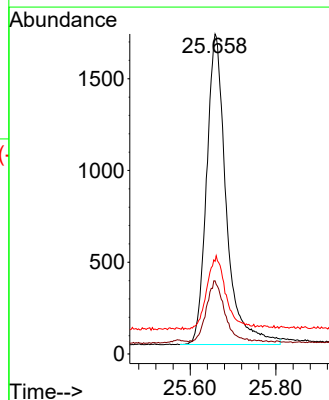
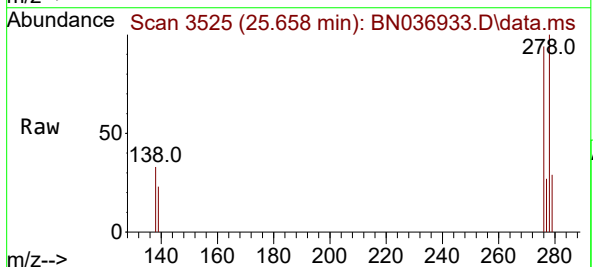
Tgt Ion:278 Resp: 5371

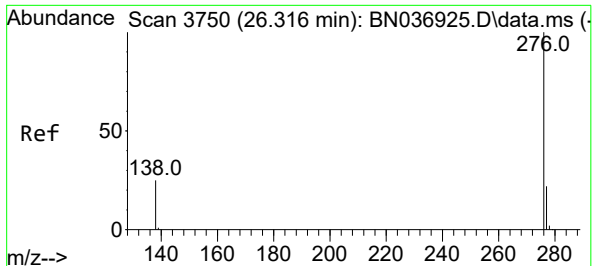
Ion Ratio Lower Upper

278 100

139 22.9 17.4 26.2

279 29.0 24.9 37.3





#41

Benzo(g,h,i)perylene

Concen: 0.390 ng

RT: 26.321 min Scan# 31

Delta R.T. 0.006 min

Lab File: BN036933.D

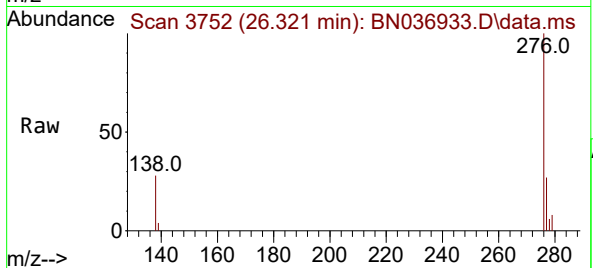
Acq: 29 Apr 2025 09:17

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4



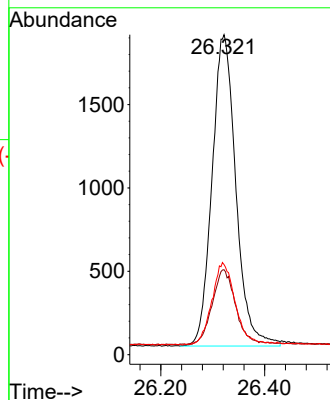
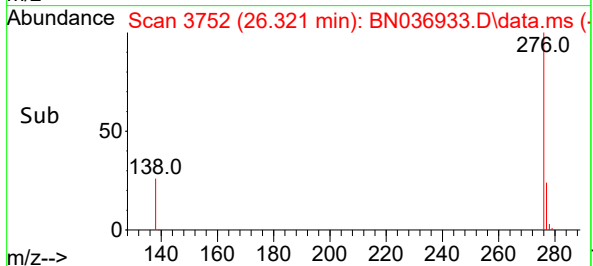
Tgt Ion:276 Resp: 5958

Ion Ratio Lower Upper

276 100

277 26.5 20.2 30.2

138 28.1 21.9 32.9



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN042925\  
 Data File : BN036933.D  
 Acq On : 29 Apr 2025 09:17  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 LabSampleId :  
 SSTDCCC0.4

Quant Time: Apr 29 10:49:04 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN042825.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Apr 28 15:35:03 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   | 110   | 0.00     |
| 2       | 1,4-Dioxane                | 0.498 | 0.549 | -10.2 | 109   | 0.00     |
| 3       | n-Nitrosodimethylamine     | 0.967 | 0.968 | -0.1  | 105   | 0.00     |
| 4 S     | 2-Fluorophenol             | 1.023 | 1.058 | -3.4  | 104   | 0.00     |
| 5 S     | Phenol-d6                  | 1.259 | 1.302 | -3.4  | 107   | 0.00     |
| 6       | bis(2-Chloroethyl)ether    | 1.167 | 1.180 | -1.1  | 111   | 0.00     |
| 7 I     | Naphthalene-d8             | 1.000 | 1.000 | 0.0   | 114   | -0.01    |
| 8 S     | Nitrobenzene-d5            | 0.418 | 0.407 | 2.6   | 113   | -0.01    |
| 9       | Naphthalene                | 1.164 | 1.154 | 0.9   | 114   | 0.00     |
| 10      | Hexachlorobutadiene        | 0.252 | 0.255 | -1.2  | 114   | 0.00     |
| 11 SURR | 2-Methylnaphthalene-d10    | 0.559 | 0.542 | 3.0   | 114   | 0.00     |
| 12      | 2-Methylnaphthalene        | 0.753 | 0.729 | 3.2   | 115   | 0.00     |
| 13 I    | Acenaphthene-d10           | 1.000 | 1.000 | 0.0   | 117   | 0.00     |
| 14 S    | 2,4,6-Tribromophenol       | 0.178 | 0.172 | 3.4   | 114   | 0.00     |
| 15 S    | 2-Fluorobiphenyl           | 1.933 | 1.953 | -1.0  | 111   | 0.00     |
| 16      | Acenaphthylene             | 1.955 | 1.903 | 2.7   | 117   | -0.01    |
| 17      | Acenaphthene               | 1.284 | 1.271 | 1.0   | 117   | 0.00     |
| 18      | Fluorene                   | 1.680 | 1.631 | 2.9   | 118   | 0.00     |
| 19 I    | Phenanthrene-d10           | 1.000 | 1.000 | 0.0   | 121   | 0.00     |
| 20      | 4,6-Dinitro-2-methylphenol | 0.106 | 0.087 | 17.9  | 116   | 0.00     |
| 21      | 4-Bromophenyl-phenylether  | 0.267 | 0.259 | 3.0   | 120   | 0.00     |
| 22      | Hexachlorobenzene          | 0.293 | 0.293 | 0.0   | 118   | 0.00     |
| 23      | Atrazine                   | 0.215 | 0.199 | 7.4   | 121   | 0.00     |
| 24      | Pentachlorophenol          | 0.157 | 0.146 | 7.0   | 122   | -0.01    |
| 25      | Phenanthrene               | 1.320 | 1.310 | 0.8   | 122   | 0.00     |
| 26      | Anthracene                 | 1.194 | 1.142 | 4.4   | 120   | 0.00     |
| 27 SURR | Fluoranthene-d10           | 1.037 | 0.998 | 3.8   | 122   | 0.00     |
| 28      | Fluoranthene               | 1.480 | 1.428 | 3.5   | 123   | 0.00     |
| 29 I    | Chrysene-d12               | 1.000 | 1.000 | 0.0   | 123   | 0.00     |
| 30      | Pyrene                     | 1.927 | 1.926 | 0.1   | 121   | 0.00     |
| 31 S    | Terphenyl-d14              | 0.944 | 0.951 | -0.7  | 124   | 0.00     |
| 32      | Benzo(a)anthracene         | 1.473 | 1.410 | 4.3   | 122   | 0.00     |
| 33      | Chrysene                   | 1.589 | 1.651 | -3.9  | 124   | 0.00     |
| 34      | Bis(2-ethylhexyl)phthalate | 0.838 | 0.756 | 9.8   | 112   | 0.00     |
| 35 I    | Perylene-d12               | 1.000 | 1.000 | 0.0   | 118   | 0.00     |
| 36      | Indeno(1,2,3-cd)pyrene     | 1.634 | 1.597 | 2.3   | 110   | 0.00     |
| 37      | Benzo(b)fluoranthene       | 1.682 | 1.671 | 0.7   | 121   | 0.00     |
| 38      | Benzo(k)fluoranthene       | 1.691 | 1.642 | 2.9   | 118   | 0.00     |
| 39 C    | Benzo(a)pyrene             | 1.383 | 1.348 | 2.5   | 117   | 0.00     |
| 40      | Dibenzo(a,h)anthracene     | 1.286 | 1.254 | 2.5   | 110   | 0.00     |
| 41      | Benzo(g,h,i)perylene       | 1.427 | 1.391 | 2.5   | 108   | 0.00     |

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN042925\  
 Data File : BN036933.D  
 Acq On : 29 Apr 2025 09:17  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 LabSampleId :  
 SSTDCCC0.4

Quant Time: Apr 29 10:49:04 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN042825.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Apr 28 15:35:03 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   | 110   | 0.00     |
| 2       | 1,4-Dioxane                | 0.400  | 0.440 | -10.0 | 109   | 0.00     |
| 3       | n-Nitrosodimethylamine     | 0.400  | 0.400 | 0.0   | 105   | 0.00     |
| 4 S     | 2-Fluorophenol             | 0.400  | 0.414 | -3.5  | 104   | 0.00     |
| 5 S     | Phenol-d6                  | 0.400  | 0.413 | -3.2  | 107   | 0.00     |
| 6       | bis(2-Chloroethyl)ether    | 0.400  | 0.404 | -1.0  | 111   | 0.00     |
| 7 I     | Naphthalene-d8             | 0.400  | 0.400 | 0.0   | 114   | -0.01    |
| 8 S     | Nitrobenzene-d5            | 0.400  | 0.389 | 2.8   | 113   | -0.01    |
| 9       | Naphthalene                | 0.400  | 0.397 | 0.8   | 114   | 0.00     |
| 10      | Hexachlorobutadiene        | 0.400  | 0.404 | -1.0  | 114   | 0.00     |
| 11 SURR | 2-Methylnaphthalene-d10    | 0.400  | 0.387 | 3.3   | 114   | 0.00     |
| 12      | 2-Methylnaphthalene        | 0.400  | 0.387 | 3.3   | 115   | 0.00     |
| 13 I    | Acenaphthene-d10           | 0.400  | 0.400 | 0.0   | 117   | 0.00     |
| 14 S    | 2,4,6-Tribromophenol       | 0.400  | 0.385 | 3.8   | 114   | 0.00     |
| 15 S    | 2-Fluorobiphenyl           | 0.400  | 0.404 | -1.0  | 111   | 0.00     |
| 16      | Acenaphthylene             | 0.400  | 0.389 | 2.8   | 117   | -0.01    |
| 17      | Acenaphthene               | 0.400  | 0.396 | 1.0   | 117   | 0.00     |
| 18      | Fluorene                   | 0.400  | 0.388 | 3.0   | 118   | 0.00     |
| 19 I    | Phenanthrene-d10           | 0.400  | 0.400 | 0.0   | 121   | 0.00     |
| 20      | 4,6-Dinitro-2-methylphenol | 0.400  | 0.328 | 18.0  | 116   | 0.00     |
| 21      | 4-Bromophenyl-phenylether  | 0.400  | 0.388 | 3.0   | 120   | 0.00     |
| 22      | Hexachlorobenzene          | 0.400  | 0.400 | 0.0   | 118   | 0.00     |
| 23      | Atrazine                   | 0.400  | 0.370 | 7.5   | 121   | 0.00     |
| 24      | Pentachlorophenol          | 0.400  | 0.373 | 6.8   | 122   | -0.01    |
| 25      | Phenanthrene               | 0.400  | 0.397 | 0.8   | 122   | 0.00     |
| 26      | Anthracene                 | 0.400  | 0.383 | 4.3   | 120   | 0.00     |
| 27 SURR | Fluoranthene-d10           | 0.400  | 0.385 | 3.8   | 122   | 0.00     |
| 28      | Fluoranthene               | 0.400  | 0.386 | 3.5   | 123   | 0.00     |
| 29 I    | Chrysene-d12               | 0.400  | 0.400 | 0.0   | 123   | 0.00     |
| 30      | Pyrene                     | 0.400  | 0.400 | 0.0   | 121   | 0.00     |
| 31 S    | Terphenyl-d14              | 0.400  | 0.403 | -0.8  | 124   | 0.00     |
| 32      | Benzo(a)anthracene         | 0.400  | 0.383 | 4.3   | 122   | 0.00     |
| 33      | Chrysene                   | 0.400  | 0.416 | -4.0  | 124   | 0.00     |
| 34      | Bis(2-ethylhexyl)phthalate | 0.400  | 0.361 | 9.8   | 112   | 0.00     |
| 35 I    | Perylene-d12               | 0.400  | 0.400 | 0.0   | 118   | 0.00     |
| 36      | Indeno(1,2,3-cd)pyrene     | 0.400  | 0.391 | 2.3   | 110   | 0.00     |
| 37      | Benzo(b)fluoranthene       | 0.400  | 0.397 | 0.8   | 121   | 0.00     |
| 38      | Benzo(k)fluoranthene       | 0.400  | 0.388 | 3.0   | 118   | 0.00     |
| 39 C    | Benzo(a)pyrene             | 0.400  | 0.390 | 2.5   | 117   | 0.00     |
| 40      | Dibenzo(a,h)anthracene     | 0.400  | 0.390 | 2.5   | 110   | 0.00     |
| 41      | Benzo(g,h,i)perylene       | 0.400  | 0.390 | 2.5   | 108   | 0.00     |

(#) = Out of Range

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



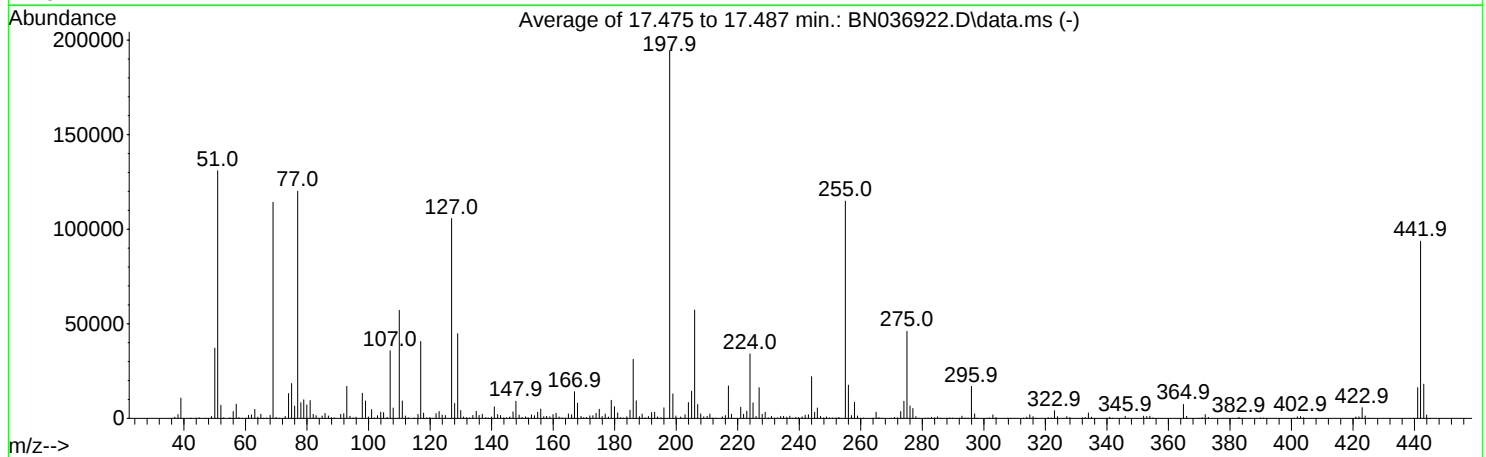
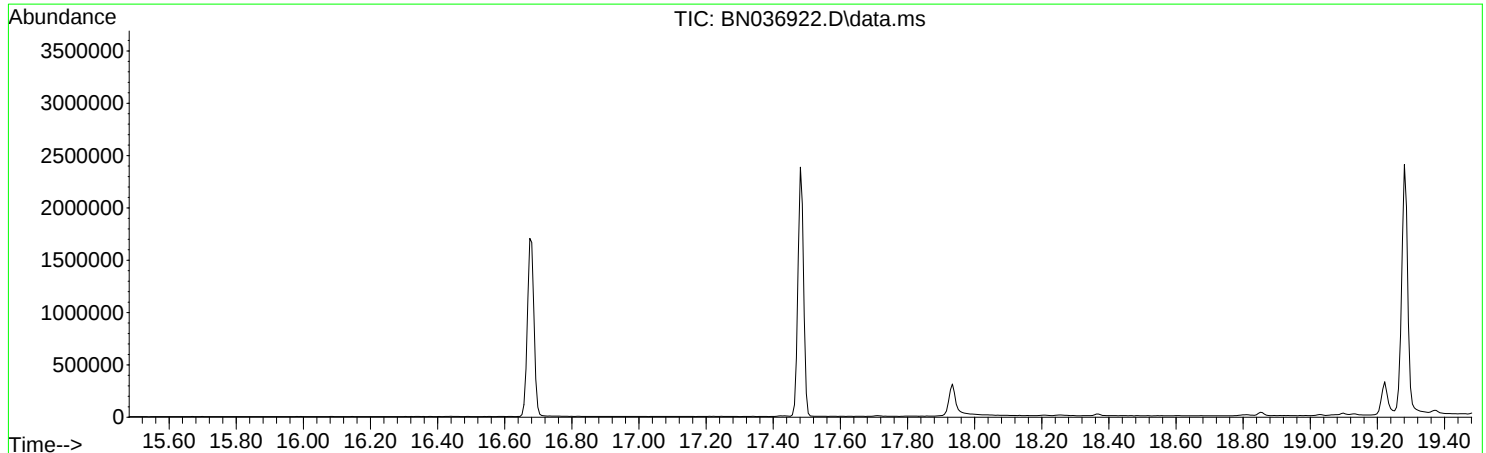
# QC SAMPLE DATA

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN042825\  
Data File : BN036922.D  
Acq On : 28 Apr 2025 10:56  
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-BN042825.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
Last Update : Mon Apr 28 15:35:03 2025



AutoFind: Scans 2480, 2481, 2482; Background Corrected with Scan 2473

| 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              | 67.4         | 130988     | PASS                |
| 68             | 69              | 0.00            | 2               | 1.4          | 1628       | PASS                |
| 69             | 198             | 0.00            | 100             | 58.8         | 114280     | PASS                |
| 70             | 69              | 0.00            | 2               | 0.4          | 478        | PASS                |
| 127            | 198             | 10              | 80              | 54.3         | 105632     | PASS                |
| 197            | 198             | 0.00            | 2               | 0.0          | 0          | PASS                |
| 198            | 198             | 100             | 100             | 100.0        | 194475     | PASS                |
| 199            | 198             | 5               | 9               | 6.7          | 12991      | PASS                |
| 275            | 198             | 10              | 60              | 23.7         | 46040      | PASS                |
| 365            | 198             | 1               | 100             | 3.8          | 7407       | PASS                |
| 441            | 198             | 0.01            | 100             | 8.4          | 16253      | PASS                |
| 442            | 442             | 50              | 100             | 100.0        | 93637      | PASS                |
| 443            | 442             | 15              | 24              | 19.4         | 18149      | PASS                |

Instrument :

BNA\_N

ClientSampleId :

DFTPP

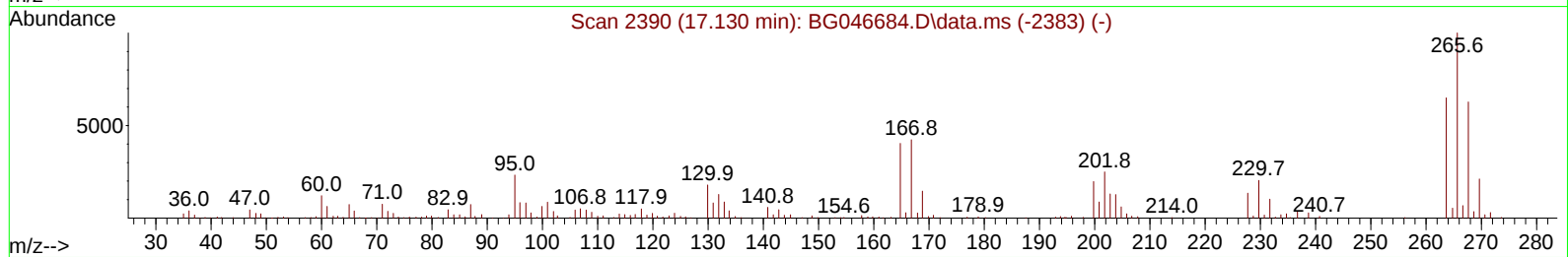
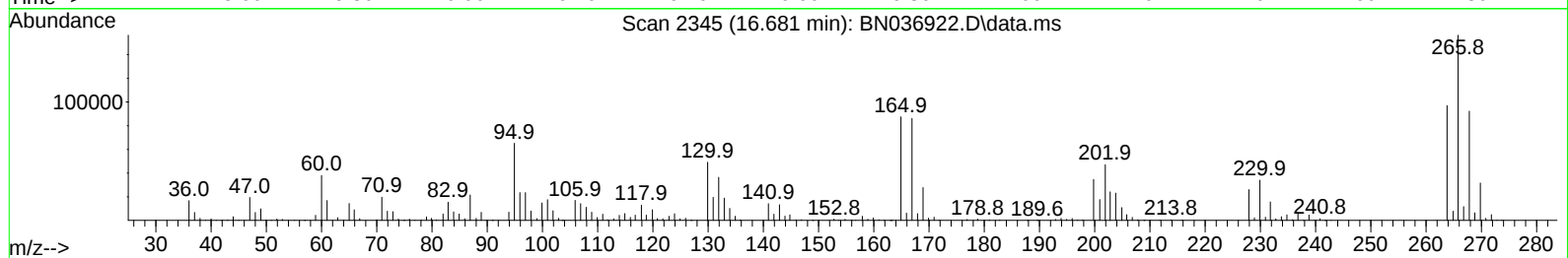
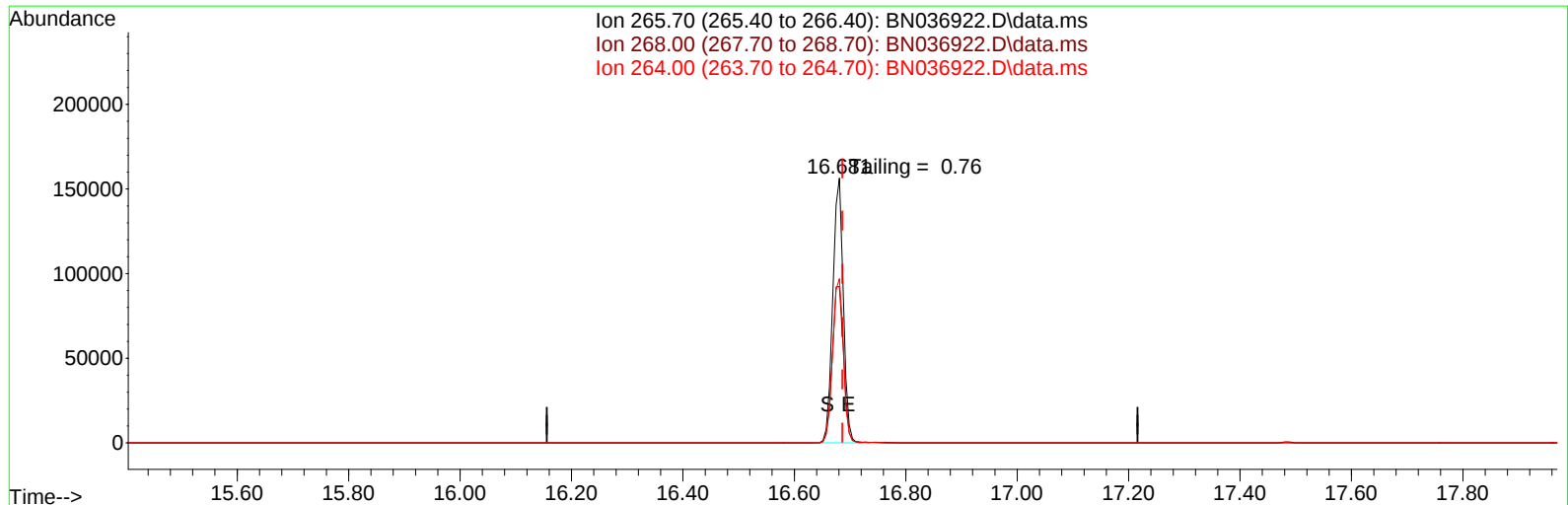
DDT Breakdown

| Date          | Instrument Name  | DFTPP Data File    |
|---------------|------------------|--------------------|
| 4/28/2025     | BNA_N            | <u>BN036922.D</u>  |
|               |                  |                    |
|               |                  |                    |
| Compound Name | Response         | Retention Time     |
|               |                  |                    |
| DDT           | 653394           | 20.522             |
| DDD           | 6192             | 20.133             |
| DDE           | 0                | 19.621             |
|               |                  |                    |
|               |                  |                    |
| SUM(DDD+DDE)  | SUM(DDT+DDD+DDE) | % Breakdown Of DDT |
|               |                  |                    |
| 6192          | 659586           | 0.94               |
|               |                  |                    |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN042825\  
Data File : BN036922.D  
Acq On : 28 Apr 2025 10:56  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

Quant Time: Apr 28 16:10:41 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270E-Tune.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Apr 11 23:51:57 2025  
Response via : Initial Calibration



TIC: BN036922.D\data.ms

**(70) Pentachlorophenol (C)**

16.681min (-0.005) 20278.92 ng

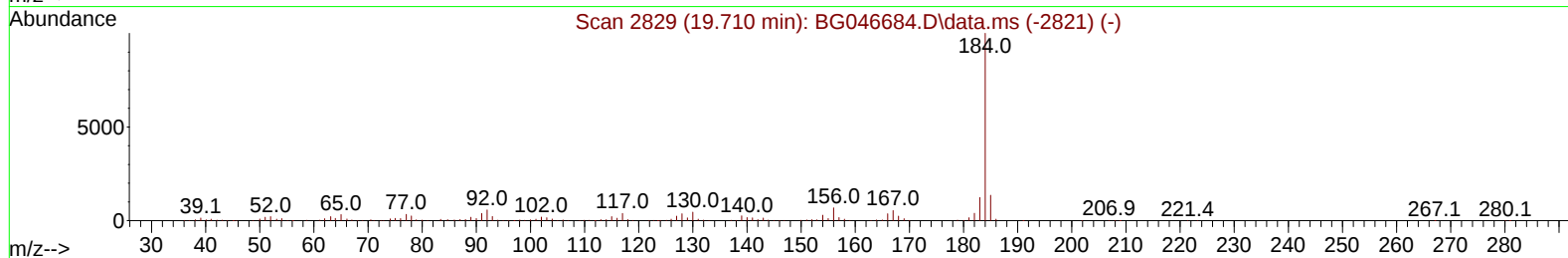
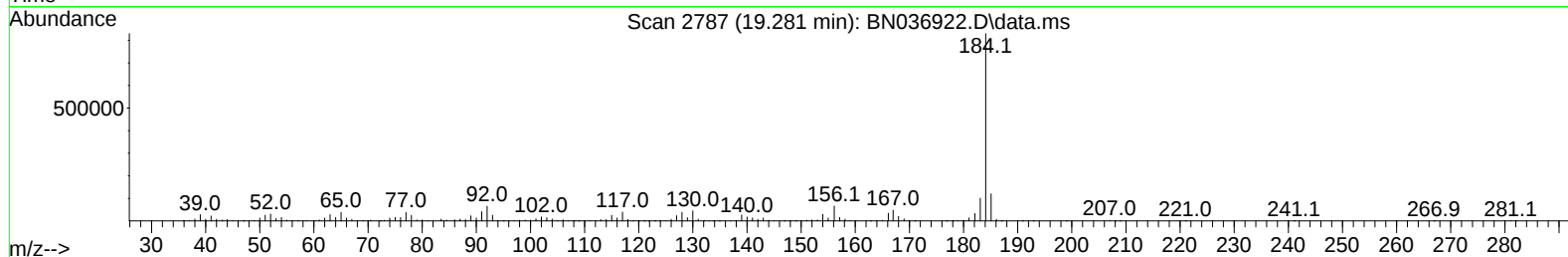
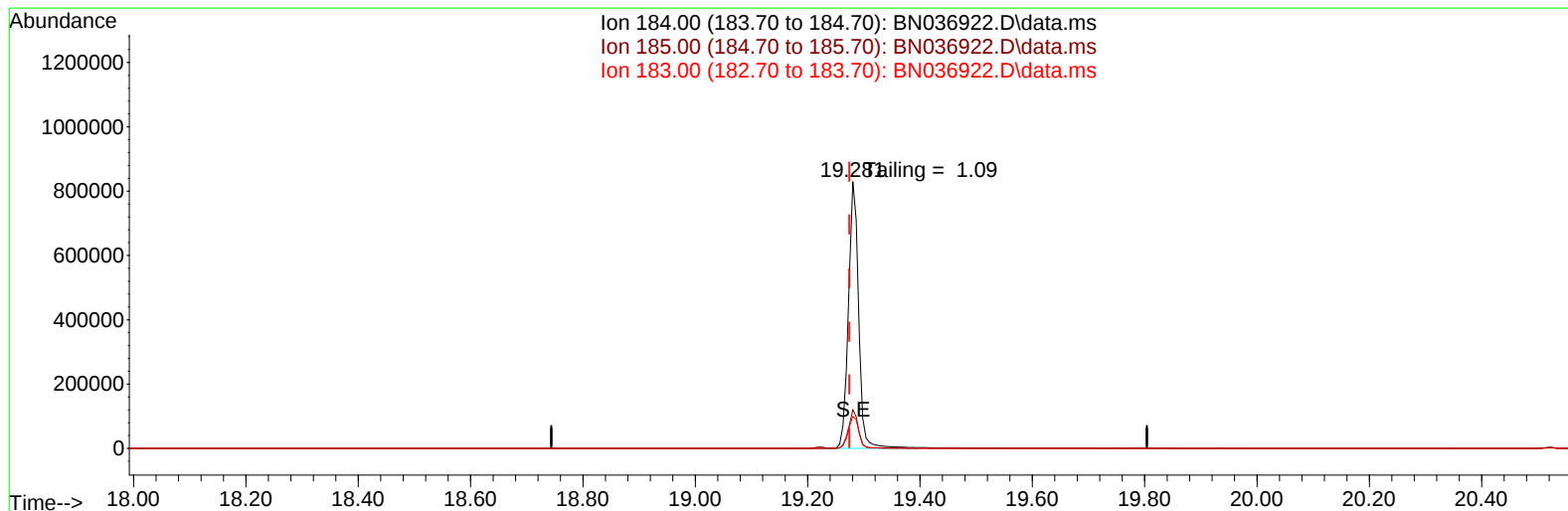
response 204659

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 265.70 | 100.00 | 100.00 |
| 268.00 | 62.20  | 59.04  |
| 264.00 | 61.60  | 61.99  |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN042825\  
Data File : BN036922.D  
Acq On : 28 Apr 2025 10:56  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

Quant Time: Apr 28 16:10:41 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270E-Tune.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Apr 11 23:51:57 2025  
Response via : Initial Calibration



TIC: BN036922.D\data.ms

**(77) Benzidine**

19.281min (+ 0.006) 0.00 ng

response 1065531

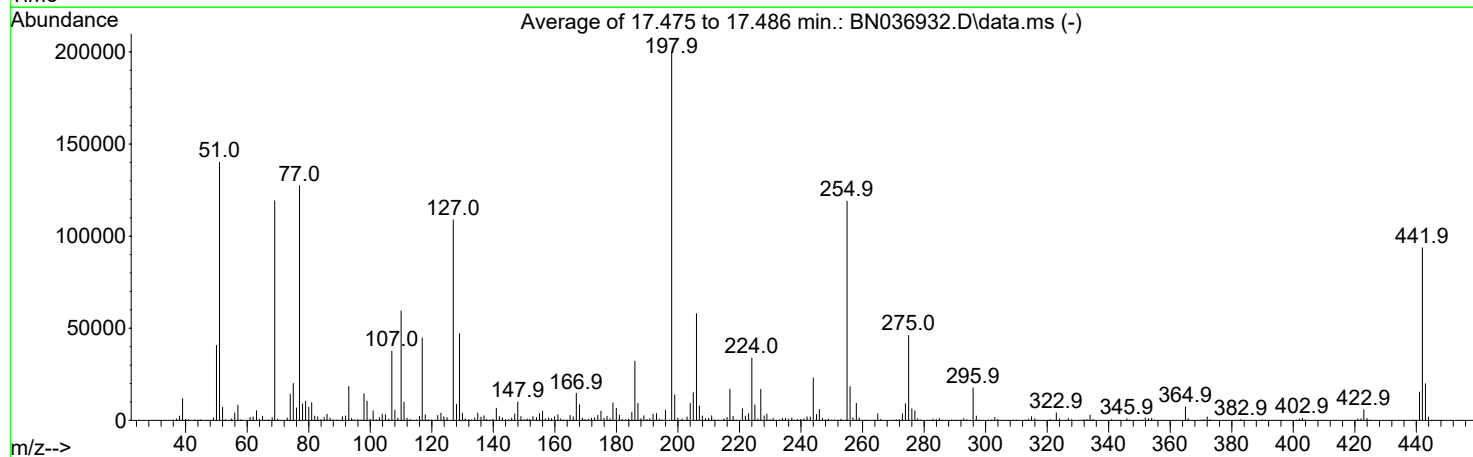
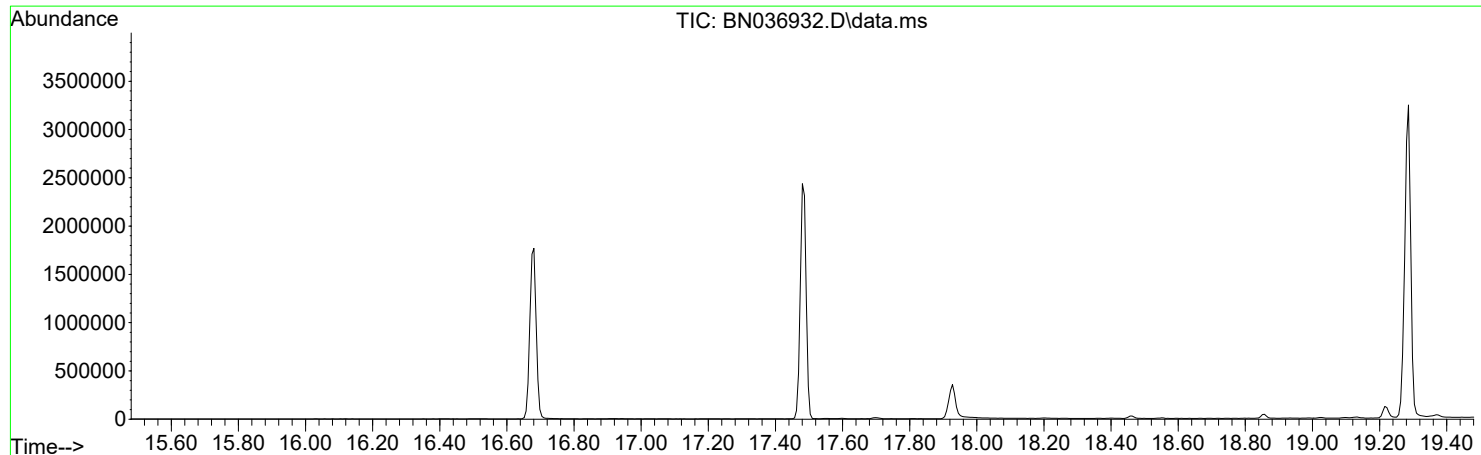
| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 184.00 | 100.00 | 100.00 |
| 185.00 | 15.50  | 14.51  |
| 183.00 | 13.20  | 12.08  |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN042925\  
Data File : BN036932.D  
Acq On : 29 Apr 2025 08:38  
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-BN042825.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
Last Update : Mon Apr 28 15:35:03 2025



AutoFind: Scans 2480, 2481, 2482; Background Corrected with Scan 2474

| 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              | 70.2         | 140221     | PASS                |
| 68             | 69              | 0.00            | 2               | 1.3          | 1520       | PASS                |
| 69             | 198             | 0.00            | 100             | 59.7         | 119197     | PASS                |
| 70             | 69              | 0.00            | 2               | 0.6          | 660        | PASS                |
| 127            | 198             | 10              | 80              | 54.5         | 108805     | PASS                |
| 197            | 198             | 0.00            | 2               | 0.0          | 0          | PASS                |
| 198            | 198             | 100             | 100             | 100.0        | 199680     | PASS                |
| 199            | 198             | 5               | 9               | 7.0          | 13909      | PASS                |
| 275            | 198             | 10              | 60              | 23.1         | 46163      | PASS                |
| 365            | 198             | 1               | 100             | 3.7          | 7389       | PASS                |
| 441            | 198             | 0.01            | 100             | 7.7          | 15337      | PASS                |
| 442            | 442             | 50              | 100             | 100.0        | 93763      | PASS                |
| 443            | 442             | 15              | 24              | 21.2         | 19866      | PASS                |

Instrument :

BNA\_N

ClientSampleId :

DFTPP

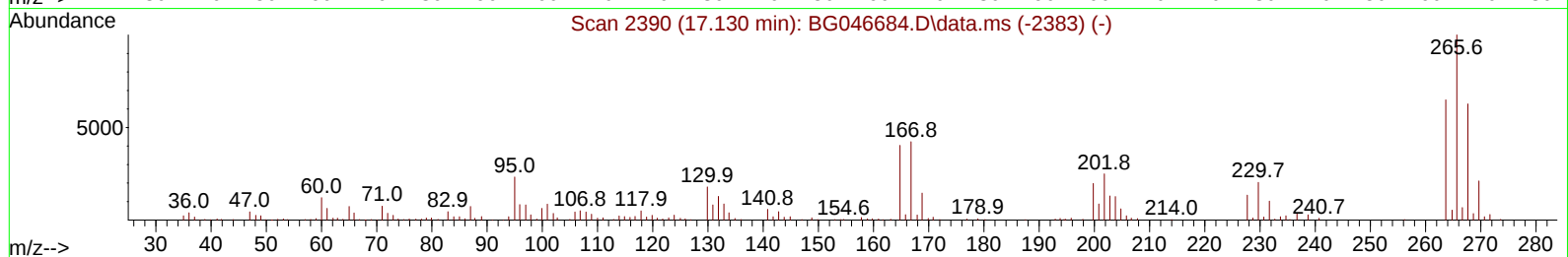
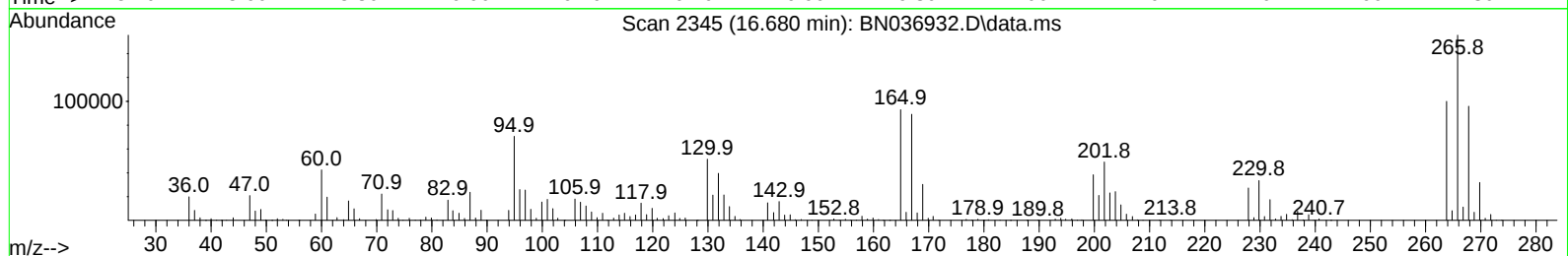
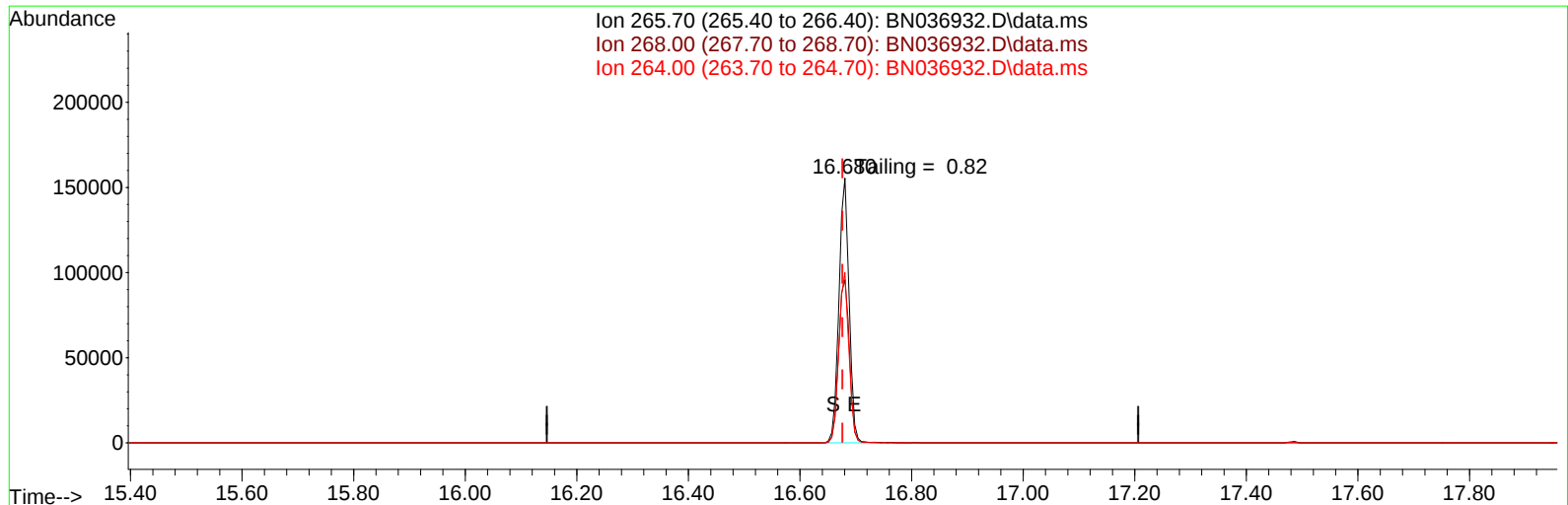
DDT Breakdown

| Date          | Instrument Name  | DFTPP Data File    |
|---------------|------------------|--------------------|
| 4/29/2025     | BNA_N            | <u>BN036934.D</u>  |
|               |                  |                    |
|               |                  |                    |
| Compound Name | Response         | Retention Time     |
|               |                  |                    |
| DDT           | 722011           | 20.521             |
| DDD           | 5913             | 20.133             |
| DDE           | 58               | 19.58              |
|               |                  |                    |
|               |                  |                    |
| SUM(DDD+DDE)  | SUM(DDT+DDD+DDE) | % Breakdown Of DDT |
|               |                  |                    |
| 5971          | 727982           | 0.82               |
|               |                  |                    |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN042925\  
Data File : BN036932.D  
Acq On : 29 Apr 2025 08:38  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

Quant Time: Apr 29 17:24:31 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270E-Tune.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Apr 11 23:51:57 2025  
Response via : Initial Calibration



TIC: BN036932.D\data.ms

**(70) Pentachlorophenol (C)**

16.680min (+ 0.005) 17951.16 ng

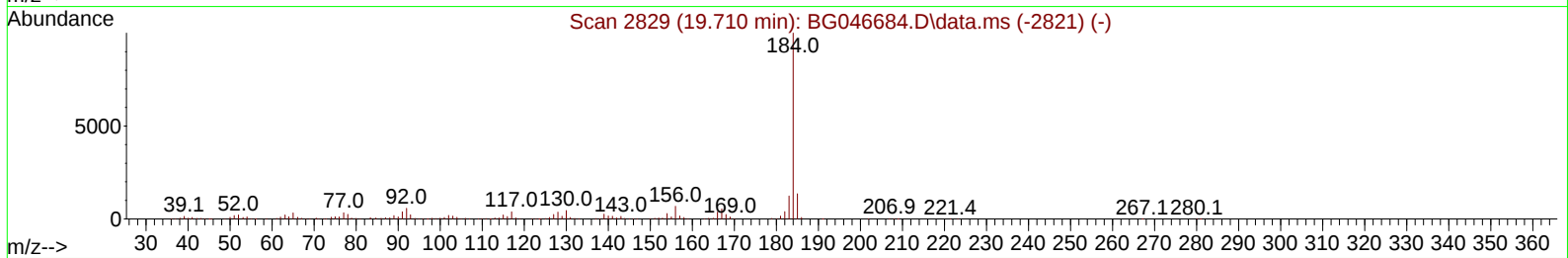
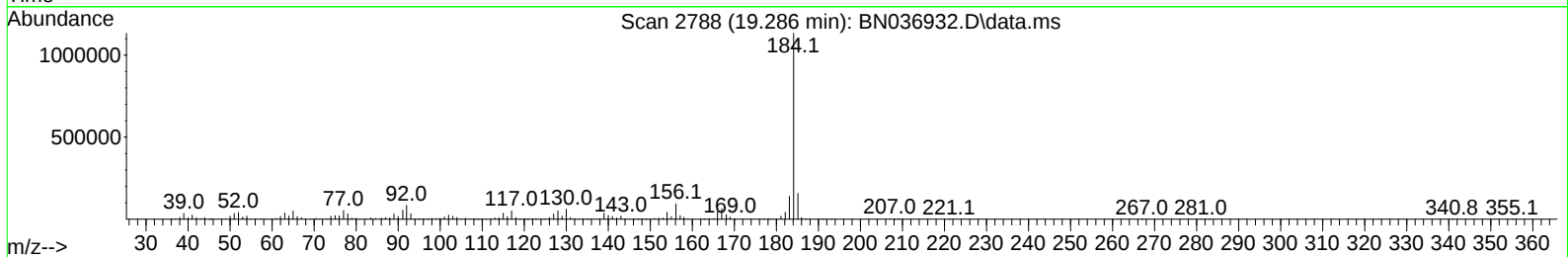
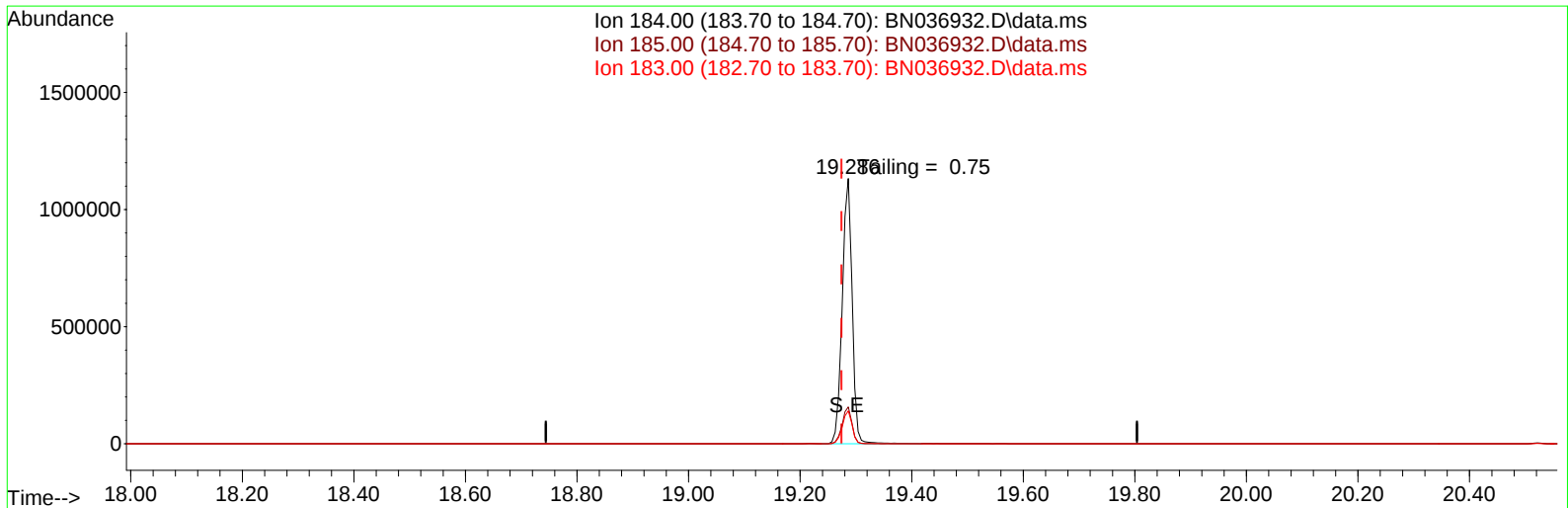
response 196804

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 265.70 | 100.00 | 100.00 |
| 268.00 | 62.20  | 61.62  |
| 264.00 | 61.60  | 64.31  |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN042925\  
Data File : BN036932.D  
Acq On : 29 Apr 2025 08:38  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

Quant Time: Apr 29 17:26:11 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270E-Tune.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Apr 11 23:51:57 2025  
Response via : Initial Calibration



TIC: BN036932.D\data.ms

**(77) Benzidine**

**19.286min (+ 0.012) 0.00 ng**

**response 1411976**

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 184.00 | 100.00 | 100.00 |
| 185.00 | 15.50  | 13.93  |
| 183.00 | 13.20  | 12.44  |
| 0.00   | 0.00   | 0.00   |

## Report of Analysis

|                    |                                        |                 |               |
|--------------------|----------------------------------------|-----------------|---------------|
| Client:            | Alliance Technical Group, LLC - Newark | Date Collected: |               |
| Project:           | NJ Waste Water PT                      | Date Received:  |               |
| Client Sample ID:  | PB167728BL                             | SDG No.:        | Q1870         |
| Lab Sample ID:     | PB167728BL                             | Matrix:         | Water         |
| Analytical Method: | SW8270ESIM                             | % Solid:        | 0             |
| Sample Wt/Vol:     | 1000 Units: mL                         | Final Vol:      | 1000 uL       |
| Soil Aliquot Vol:  | uL                                     | Test:           | SVOCMS Group5 |
| 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 |
| BN036934.D        | 1         | 04/24/25 12:05 | 04/29/25 09:53 | PB167728      |

| CAS Number                | Parameter               | Conc. | Qualifier | MDL      | LOQ / CRQL | Units    |
|---------------------------|-------------------------|-------|-----------|----------|------------|----------|
| <b>TARGETS</b>            |                         |       |           |          |            |          |
| 208-96-8                  | Acenaphthylene          | 0.040 | U         | 0.040    | 0.10       | ug/L     |
| <b>SURROGATES</b>         |                         |       |           |          |            |          |
| 7297-45-2                 | 2-Methylnaphthalene-d10 | 0.32  |           | 20 - 139 | 81%        | SPK: 0.4 |
| 93951-69-0                | Fluoranthene-d10        | 0.36  |           | 30 - 150 | 90%        | SPK: 0.4 |
| 4165-60-0                 | Nitrobenzene-d5         | 0.33  |           | 27 - 154 | 82%        | SPK: 0.4 |
| 321-60-8                  | 2-Fluorobiphenyl        | 0.35  |           | 25 - 149 | 88%        | SPK: 0.4 |
| 1718-51-0                 | Terphenyl-d14           | 0.37  |           | 54 - 175 | 91%        | SPK: 0.4 |
| <b>INTERNAL STANDARDS</b> |                         |       |           |          |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4  | 2380  | 7.633     |          |            |          |
| 1146-65-2                 | Naphthalene-d8          | 5570  | 10.415    |          |            |          |
| 15067-26-2                | Acenaphthene-d10        | 2870  | 14.277    |          |            |          |
| 1517-22-2                 | Phenanthrene-d10        | 5720  | 17.021    |          |            |          |
| 1719-03-5                 | Chrysene-d12            | 4280  | 21.215    |          |            |          |
| 1520-96-3                 | Perylene-d12            | 3790  | 23.424    |          |            |          |

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\BN042925\  
Data File : BN036934.D  
Acq On : 29 Apr 2025 09:53  
Operator : RC/JU  
Sample : PB167728BL  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
PB167728BL

Quant Time: Apr 29 10:49:30 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN042825.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Apr 28 15:35:03 2025  
Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards          |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.633  | 152  | 2379     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8           | 10.415 | 136  | 5573     | 0.400 | ng    | # 0.00   |
| 13) Acenaphthene-d10        | 14.277 | 164  | 2873     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10        | 17.021 | 188  | 5718     | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12            | 21.215 | 240  | 4280     | 0.400 | ng    | 0.00     |
| 35) Perylene-d12            | 23.424 | 264  | 3789     | 0.400 | ng    | 0.00     |
| System Monitoring Compounds |        |      |          |       |       |          |
| 4) 2-Fluorophenol           | 5.228  | 112  | 2056     | 0.338 | ng    | 0.00     |
| 5) Phenol-d6                | 6.809  | 99   | 2289     | 0.306 | ng    | 0.00     |
| 8) Nitrobenzene-d5          | 8.781  | 82   | 1914     | 0.328 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10 | 12.016 | 152  | 2522     | 0.324 | ng    | 0.01     |
| 14) 2,4,6-Tribromophenol    | 15.780 | 330  | 349      | 0.273 | ng    | 0.01     |
| 15) 2-Fluorobiphenyl        | 12.904 | 172  | 4916     | 0.354 | ng    | 0.00     |
| 27) Fluoranthene-d10        | 19.059 | 212  | 5308     | 0.358 | ng    | 0.00     |
| 31) Terphenyl-d14           | 19.667 | 244  | 3694     | 0.366 | ng    | 0.00     |

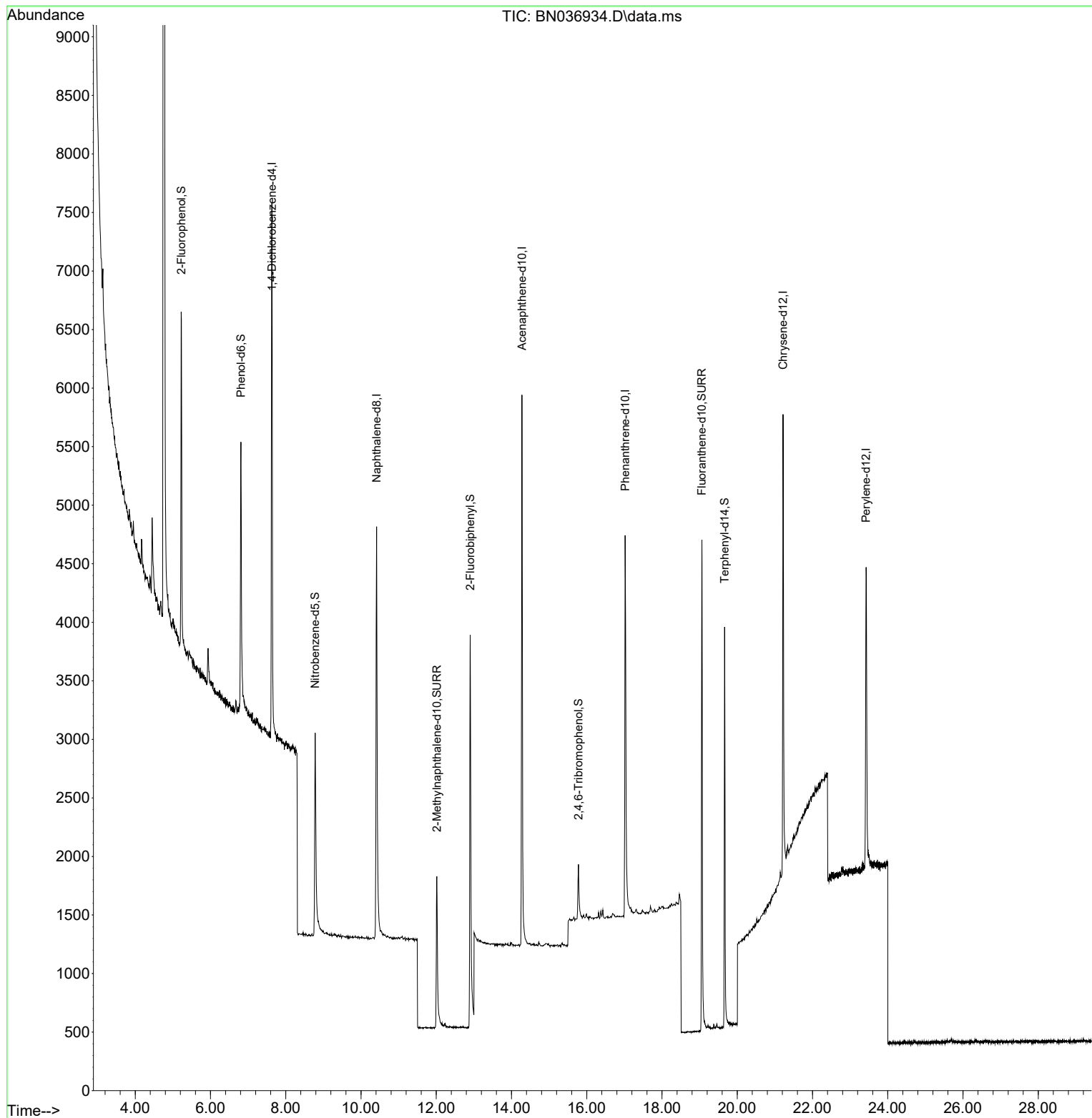
Target Compounds Qvalue

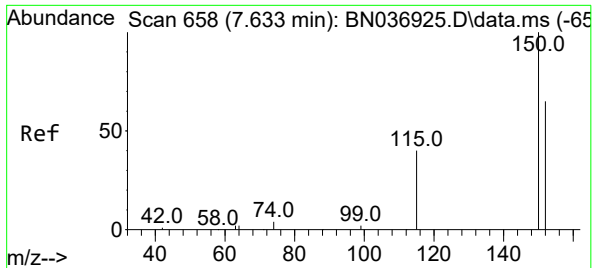
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN042925\  
Data File : BN036934.D  
Acq On : 29 Apr 2025 09:53  
Operator : RC/JU  
Sample : PB167728BL  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
PB167728BL

Quant Time: Apr 29 10:49:30 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN042825.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Apr 28 15:35:03 2025  
Response via : Initial Calibration

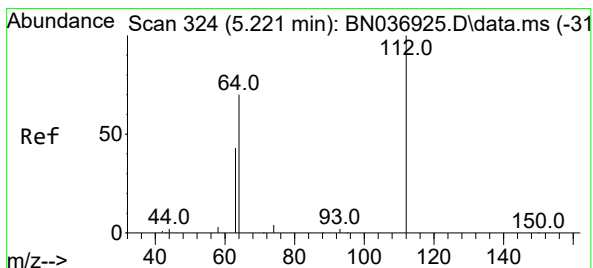
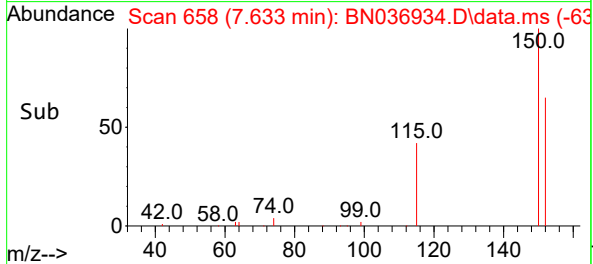
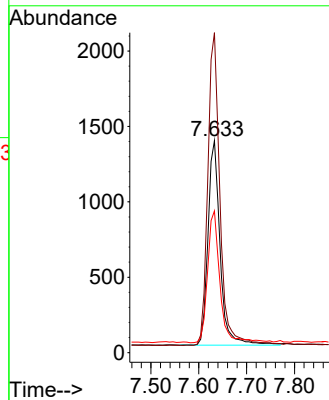
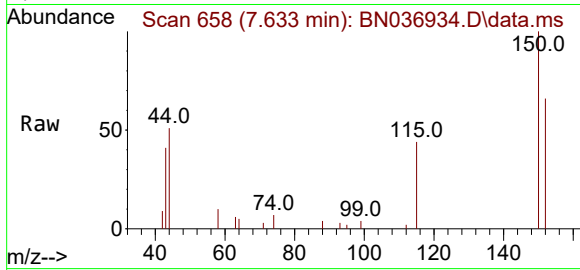




#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.633 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: BN036934.D  
Acq: 29 Apr 2025 09:53

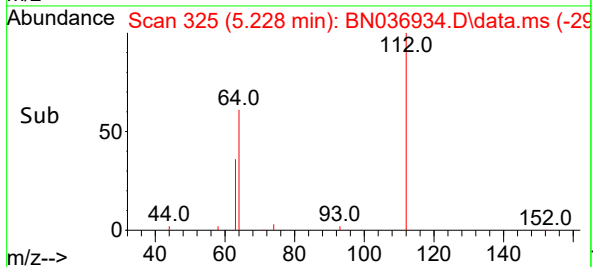
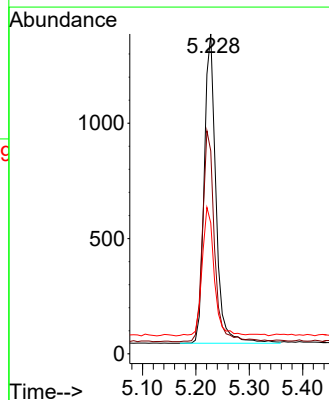
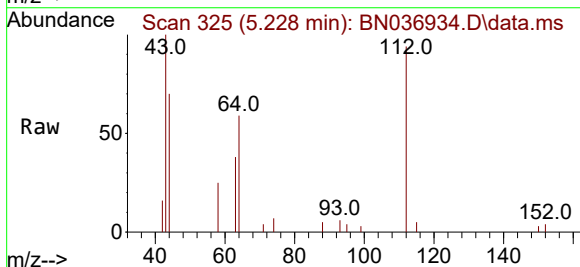
Instrument :  
BNA\_N  
ClientSampleId :  
PB167728BL

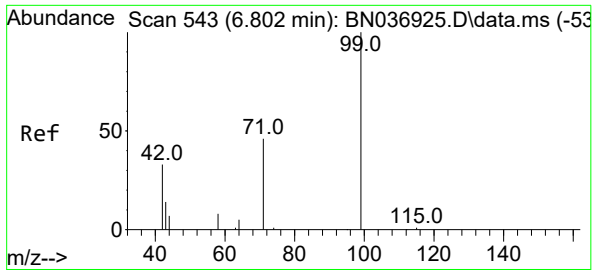
Tgt Ion:152 Resp: 2379  
Ion Ratio Lower Upper  
152 100  
150 150.9 121.1 181.7  
115 66.9 51.8 77.6



#4  
2-Fluorophenol  
Concen: 0.338 ng  
RT: 5.228 min Scan# 325  
Delta R.T. 0.007 min  
Lab File: BN036934.D  
Acq: 29 Apr 2025 09:53

Tgt Ion:112 Resp: 2056  
Ion Ratio Lower Upper  
112 100  
64 68.1 55.7 83.5  
63 42.8 33.9 50.9

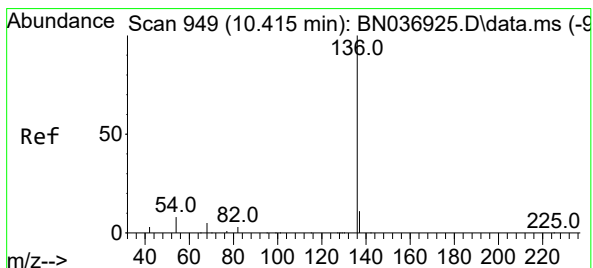
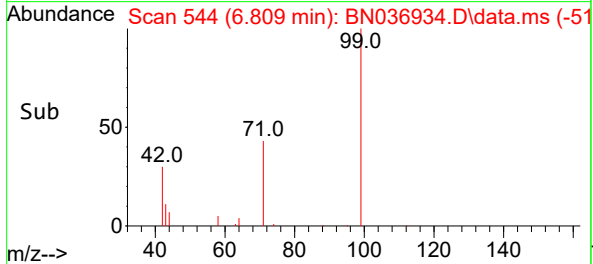
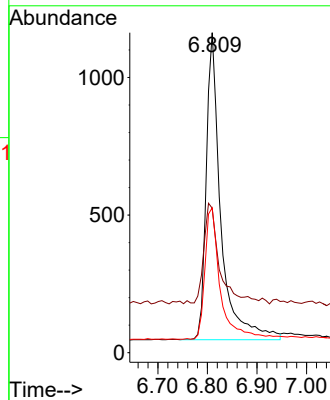
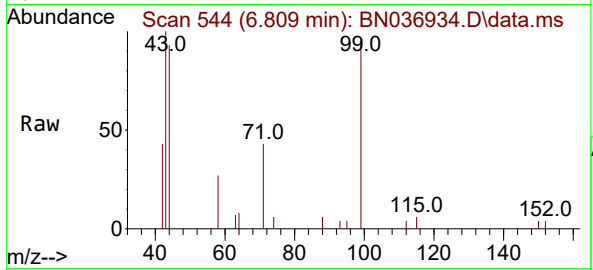




#5  
Phenol-d6  
Concen: 0.306 ng  
RT: 6.809 min Scan# 543  
Delta R.T. 0.007 min  
Lab File: BN036934.D  
Acq: 29 Apr 2025 09:53

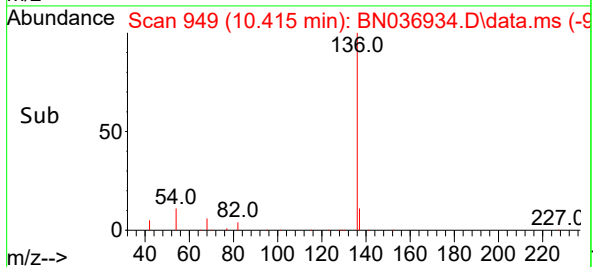
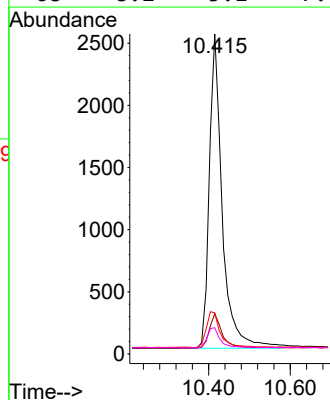
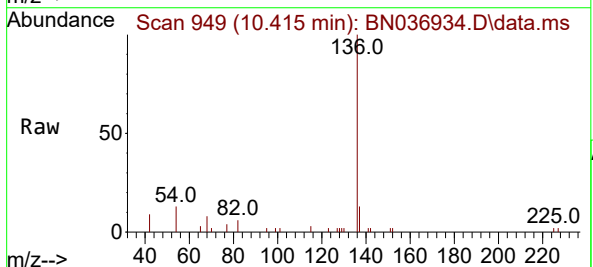
Instrument :  
BNA\_N  
ClientSampleId :  
PB167728BL

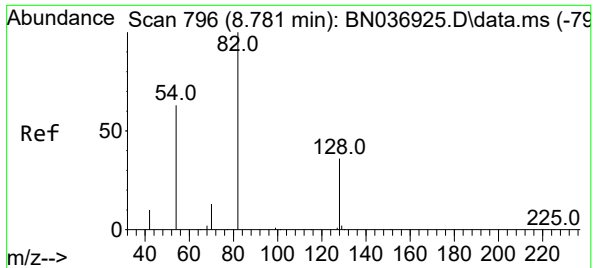
Tgt Ion: 99 Resp: 2289  
Ion Ratio Lower Upper  
99 100  
42 36.1 29.6 44.4  
71 45.8 36.0 54.0



#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.415 min Scan# 949  
Delta R.T. -0.000 min  
Lab File: BN036934.D  
Acq: 29 Apr 2025 09:53

Tgt Ion: 136 Resp: 5573  
Ion Ratio Lower Upper  
136 100  
137 12.6 9.7 14.5  
54 12.9 8.0 12.0#  
68 8.2 5.1 7.7#

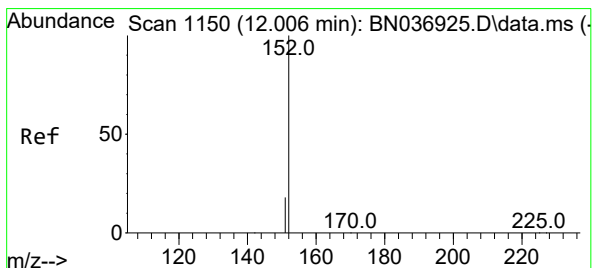
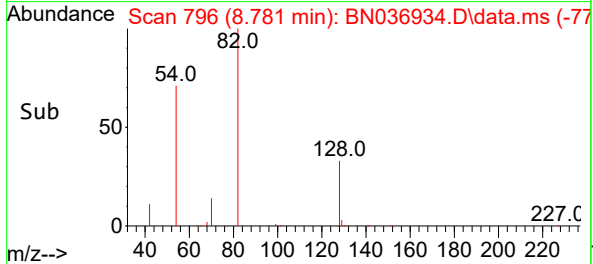
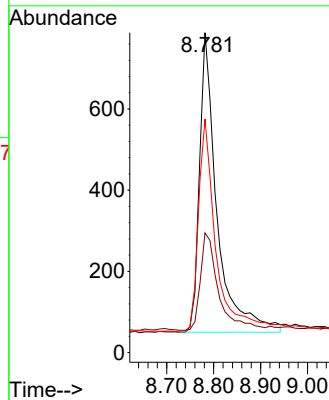
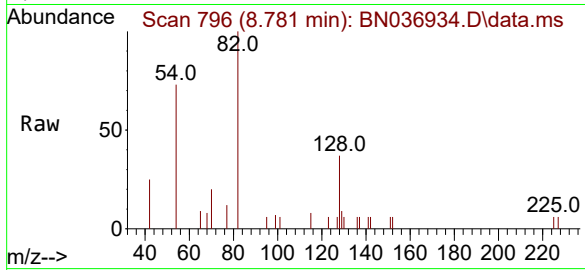




#8  
Nitrobenzene-d5  
Concen: 0.328 ng  
RT: 8.781 min Scan# 796  
Delta R.T. -0.000 min  
Lab File: BN036934.D  
Acq: 29 Apr 2025 09:53

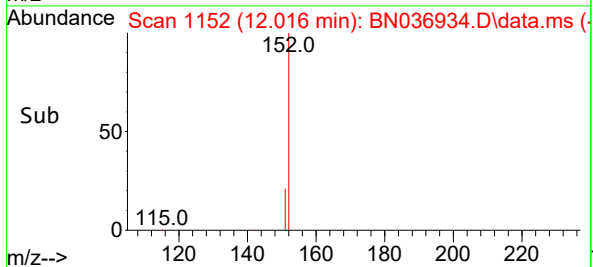
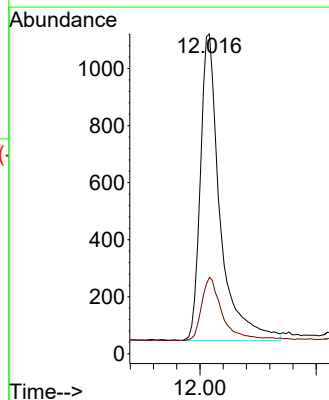
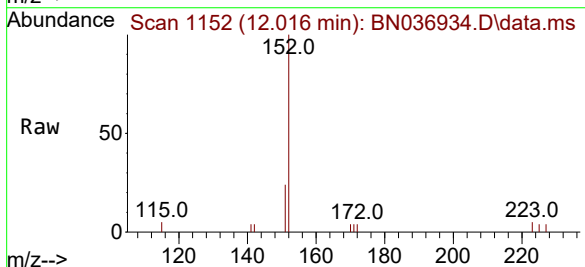
Instrument :  
BNA\_N  
ClientSampleId :  
PB167728BL

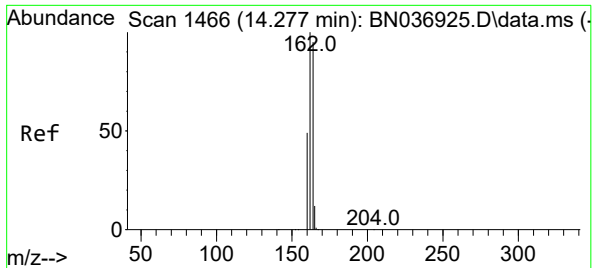
Tgt Ion: 82 Resp: 1914  
Ion Ratio Lower Upper  
82 100  
128 37.4 30.7 46.1  
54 73.0 52.1 78.1



#11  
2-Methylnaphthalene-d10  
Concen: 0.324 ng  
RT: 12.016 min Scan# 1152  
Delta R.T. 0.010 min  
Lab File: BN036934.D  
Acq: 29 Apr 2025 09:53

Tgt Ion: 152 Resp: 2522  
Ion Ratio Lower Upper  
152 100  
151 21.3 16.9 25.3

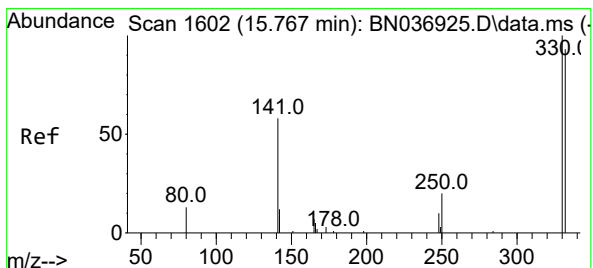
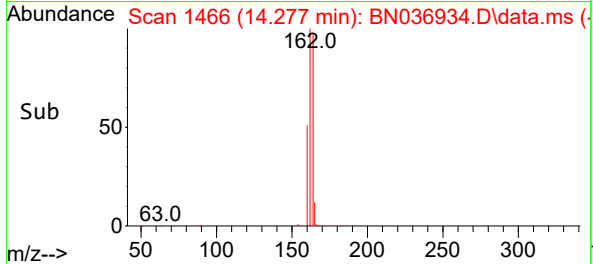
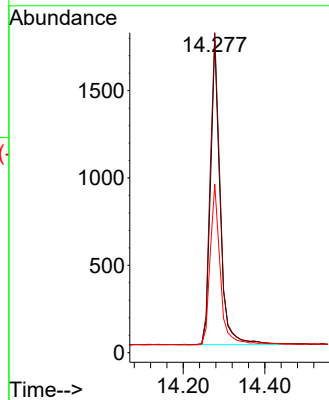
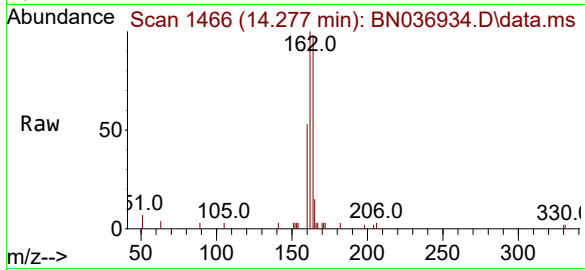




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.277 min Scan# 1466  
Delta R.T. -0.000 min  
Lab File: BN036934.D  
Acq: 29 Apr 2025 09:53

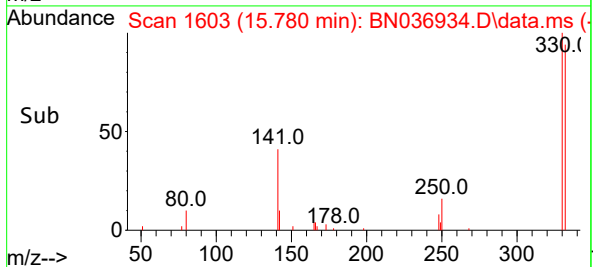
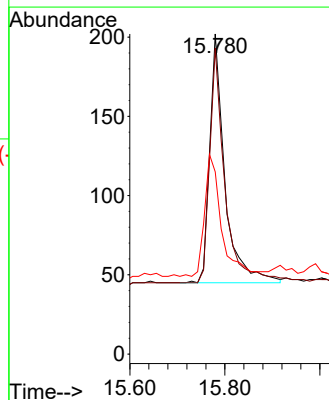
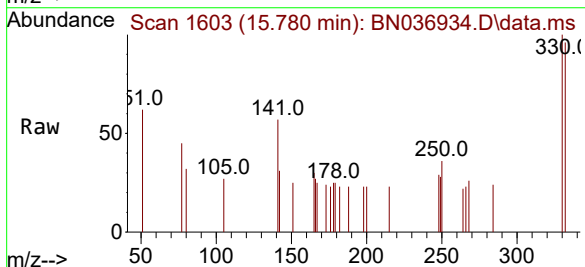
Instrument :  
BNA\_N  
ClientSampleId :  
PB167728BL

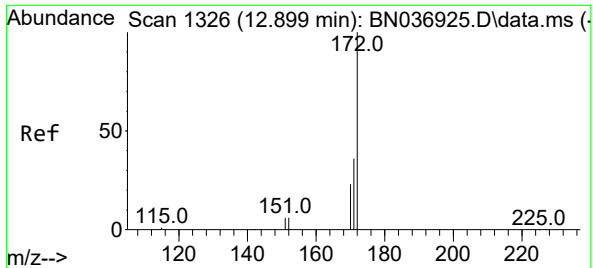
Tgt Ion:164 Resp: 2873  
Ion Ratio Lower Upper  
164 100  
162 102.4 83.8 125.8  
160 53.9 42.0 63.0



#14  
2,4,6-Tribromophenol  
Concen: 0.273 ng  
RT: 15.780 min Scan# 1603  
Delta R.T. 0.012 min  
Lab File: BN036934.D  
Acq: 29 Apr 2025 09:53

Tgt Ion:330 Resp: 349  
Ion Ratio Lower Upper  
330 100  
332 94.0 76.3 114.5  
141 54.2 45.4 68.2

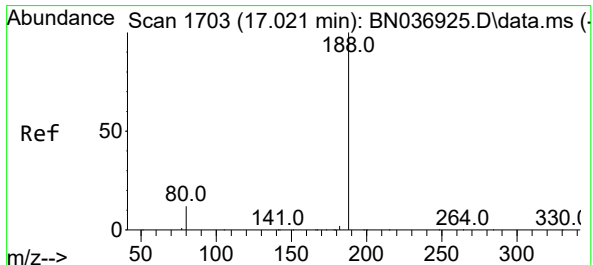
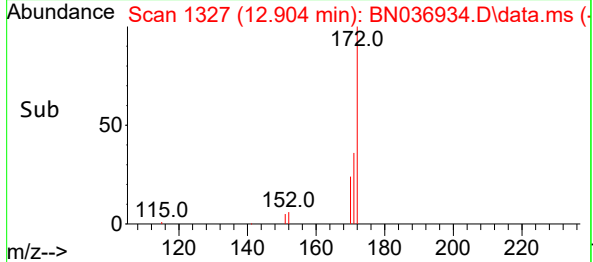
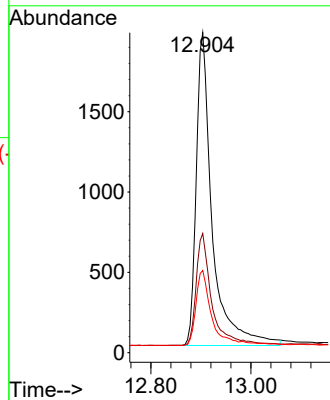
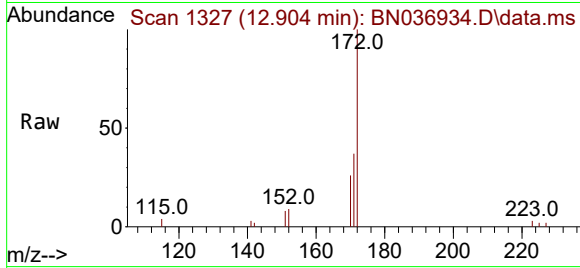




#15  
2-Fluorobiphenyl  
Concen: 0.354 ng  
RT: 12.904 min Scan# 11  
Delta R.T. 0.005 min  
Lab File: BN036934.D  
Acq: 29 Apr 2025 09:53

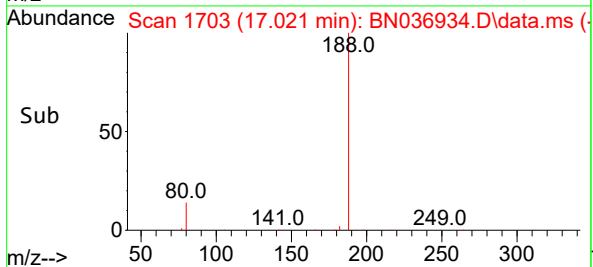
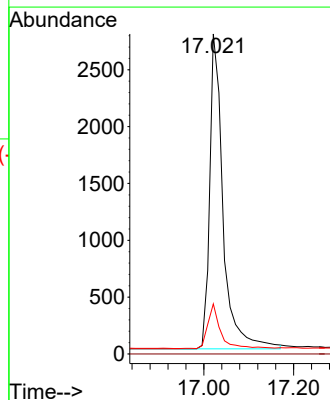
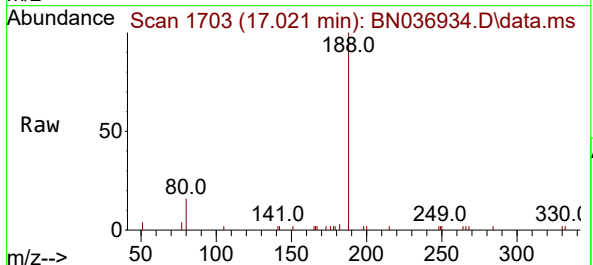
Instrument :  
BNA\_N  
ClientSampleId :  
PB167728BL

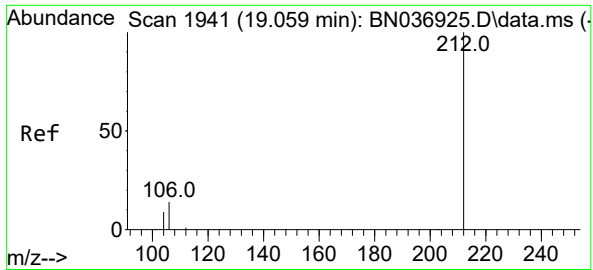
| Tgt Ion   | 172   | Resp  | 4916 |
|-----------|-------|-------|------|
| Ion Ratio | Lower | Upper |      |
| 172       | 100   |       |      |
| 171       | 37.2  | 29.4  | 44.0 |
| 170       | 25.7  | 19.4  | 29.0 |



#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 17.021 min Scan# 1703  
Delta R.T. -0.000 min  
Lab File: BN036934.D  
Acq: 29 Apr 2025 09:53

| Tgt Ion   | 188   | Resp  | 5718 |
|-----------|-------|-------|------|
| Ion Ratio | Lower | Upper |      |
| 188       | 100   |       |      |
| 94        | 0.0   | 0.0   | 0.0  |
| 80        | 15.7  | 10.7  | 16.1 |





#27

Fluoranthene-d10

Concen: 0.358 ng

RT: 19.059 min Scan# 1941

Delta R.T. -0.000 min

Lab File: BN036934.D

Acq: 29 Apr 2025 09:53

Instrument :

BNA\_N

ClientSampleId :

PB167728BL

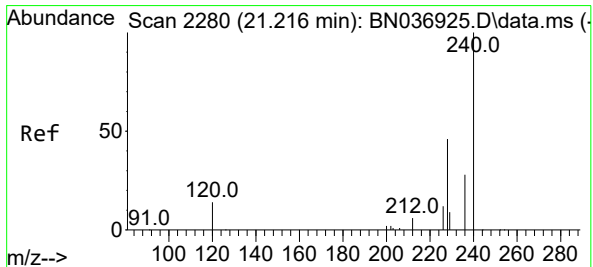
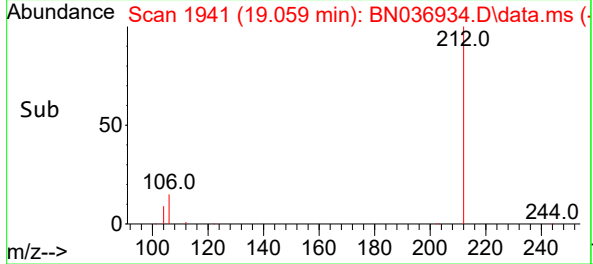
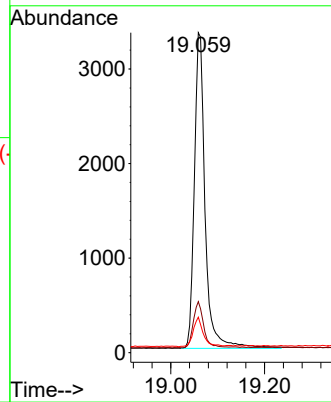
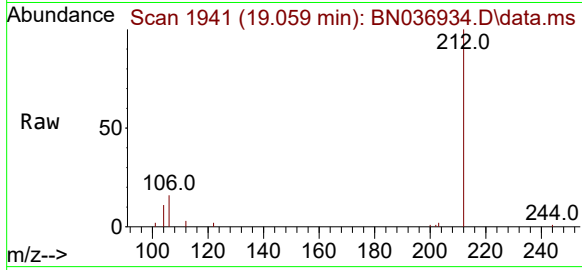
Tgt Ion:212 Resp: 5308

Ion Ratio Lower Upper

212 100

106 14.0 11.6 17.4

104 8.8 7.0 10.4



#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.215 min Scan# 2280

Delta R.T. -0.000 min

Lab File: BN036934.D

Acq: 29 Apr 2025 09:53

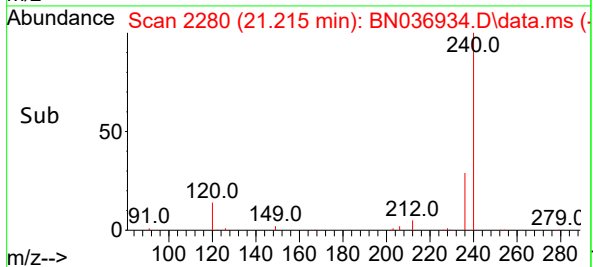
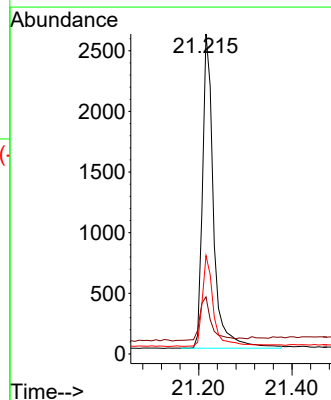
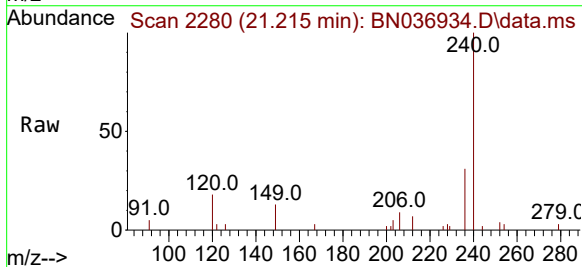
Tgt Ion:240 Resp: 4280

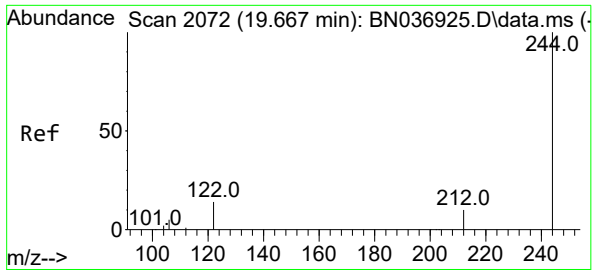
Ion Ratio Lower Upper

240 100

120 17.8 14.1 21.1

236 30.8 23.8 35.8

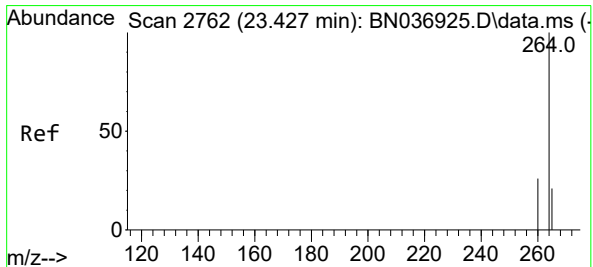
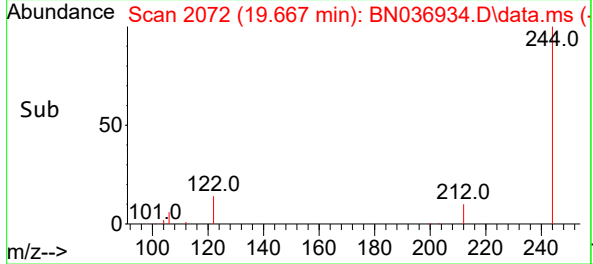
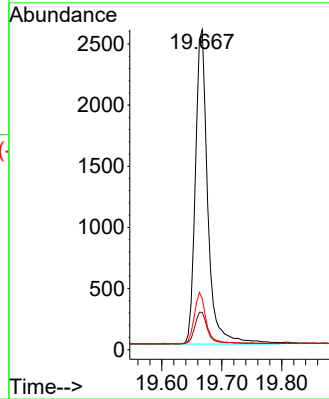
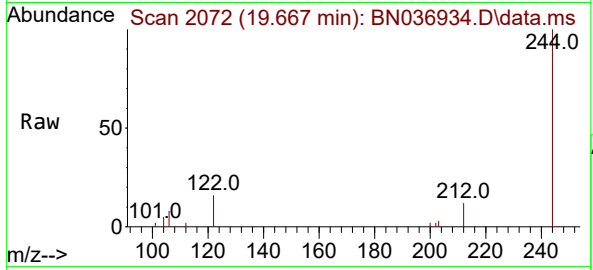




#31  
Terphenyl-d14  
Concen: 0.366 ng  
RT: 19.667 min Scan# 2072  
Delta R.T. -0.000 min  
Lab File: BN036934.D  
Acq: 29 Apr 2025 09:53

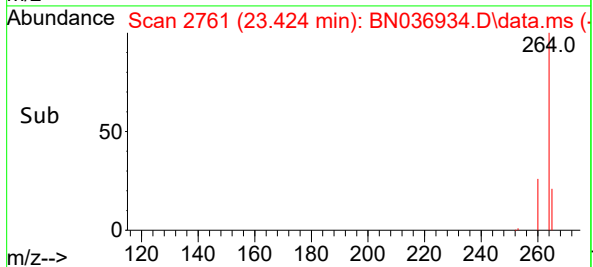
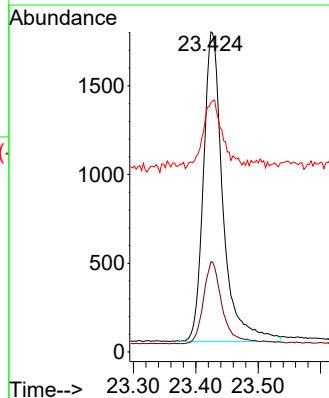
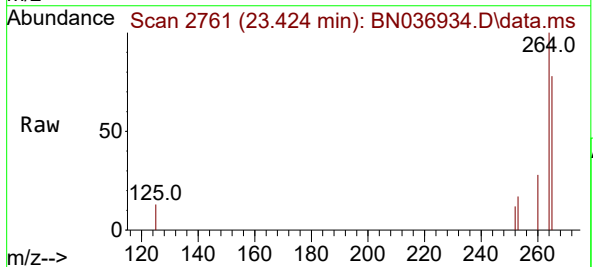
Instrument :  
BNA\_N  
ClientSampleId :  
PB167728BL

Tgt Ion:244 Resp: 3694  
Ion Ratio Lower Upper  
244 100  
212 11.6 9.6 14.4  
122 15.9 12.7 19.1



#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.424 min Scan# 2761  
Delta R.T. -0.003 min  
Lab File: BN036934.D  
Acq: 29 Apr 2025 09:53

Tgt Ion:264 Resp: 3789  
Ion Ratio Lower Upper  
264 100  
260 28.2 22.2 33.2  
265 77.9 65.8 98.6



## Report of Analysis

|                    |                                        |                 |               |
|--------------------|----------------------------------------|-----------------|---------------|
| Client:            | Alliance Technical Group, LLC - Newark | Date Collected: |               |
| Project:           | NJ Waste Water PT                      | Date Received:  |               |
| Client Sample ID:  | PB167728BS                             | SDG No.:        | Q1870         |
| Lab Sample ID:     | PB167728BS                             | Matrix:         | Water         |
| Analytical Method: | SW8270ESIM                             | % Solid:        | 0             |
| Sample Wt/Vol:     | 1000      Units:    mL                 | Final Vol:      | 1000      uL  |
| Soil Aliquot Vol:  | uL                                     | Test:           | SVOCMS Group5 |
| 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 |
| BN036939.D        | 1         | 04/24/25 12:05 | 04/29/25 14:54 | PB167728      |

| CAS Number                | Parameter               | Conc. | Qualifier | MDL      | LOQ / CRQL | Units    |
|---------------------------|-------------------------|-------|-----------|----------|------------|----------|
| <b>TARGETS</b>            |                         |       |           |          |            |          |
| 208-96-8                  | Acenaphthylene          | 0.37  |           | 0.040    | 0.10       | ug/L     |
| <b>SURROGATES</b>         |                         |       |           |          |            |          |
| 7297-45-2                 | 2-Methylnaphthalene-d10 | 0.37  |           | 20 - 139 | 93%        | SPK: 0.4 |
| 93951-69-0                | Fluoranthene-d10        | 0.33  |           | 30 - 150 | 82%        | SPK: 0.4 |
| 4165-60-0                 | Nitrobenzene-d5         | 0.35  |           | 27 - 154 | 87%        | SPK: 0.4 |
| 321-60-8                  | 2-Fluorobiphenyl        | 0.37  |           | 25 - 149 | 92%        | SPK: 0.4 |
| 1718-51-0                 | Terphenyl-d14           | 0.36  |           | 54 - 175 | 89%        | SPK: 0.4 |
| <b>INTERNAL STANDARDS</b> |                         |       |           |          |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4  | 2630  | 7.633     |          |            |          |
| 1146-65-2                 | Naphthalene-d8          | 6460  | 10.415    |          |            |          |
| 15067-26-2                | Acenaphthene-d10        | 3310  | 14.277    |          |            |          |
| 1517-22-2                 | Phenanthrene-d10        | 6630  | 17.021    |          |            |          |
| 1719-03-5                 | Chrysene-d12            | 4620  | 21.215    |          |            |          |
| 1520-96-3                 | Perylene-d12            | 3650  | 23.427    |          |            |          |

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\BN042925\  
 Data File : BN036939.D  
 Acq On : 29 Apr 2025 14:54  
 Operator : RC/JU  
 Sample : PB167728BS  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 PB167728BS

Manual Integrations  
 APPROVED

Reviewed By :Rahul Chavli 04/30/2025  
 Supervised By :Jagrut Upadhyay 04/30/2025

Quant Time: Apr 29 17:05:30 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN042825.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Apr 28 15:35:03 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| -----                         |        |      |          |       |        |          |
| Internal Standards            |        |      |          |       |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.633  | 152  | 2630     | 0.400 | ng     | 0.00     |
| 7) Naphthalene-d8             | 10.415 | 136  | 6464     | 0.400 | ng     | 0.00     |
| 13) Acenaphthene-d10          | 14.277 | 164  | 3313     | 0.400 | ng     | 0.00     |
| 19) Phenanthrene-d10          | 17.021 | 188  | 6630     | 0.400 | ng     | 0.00     |
| 29) Chrysene-d12              | 21.215 | 240  | 4615     | 0.400 | ng     | 0.00     |
| 35) Perylene-d12              | 23.427 | 264  | 3648     | 0.400 | ng     | 0.00     |
| System Monitoring Compounds   |        |      |          |       |        |          |
| 4) 2-Fluorophenol             | 5.228  | 112  | 2288     | 0.340 | ng     | 0.00     |
| 5) Phenol-d6                  | 6.802  | 99   | 2763     | 0.334 | ng     | 0.00     |
| 8) Nitrobenzene-d5            | 8.781  | 82   | 2355     | 0.348 | ng     | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 12.006 | 152  | 3375m    | 0.373 | ng     | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.767 | 330  | 425      | 0.288 | ng     | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.899 | 172  | 5876     | 0.367 | ng     | 0.00     |
| 27) Fluoranthene-d10          | 19.059 | 212  | 5638     | 0.328 | ng     | 0.00     |
| 31) Terphenyl-d14             | 19.667 | 244  | 3891     | 0.357 | ng     | 0.00     |
| Target Compounds              |        |      |          |       |        |          |
|                               |        |      |          |       | Qvalue |          |
| 2) 1,4-Dioxane                | 3.148  | 88   | 987      | 0.301 | ng     | # 29     |
| 3) n-Nitrosodimethylamine     | 3.458  | 42   | 2316     | 0.364 | ng     | # 96     |
| 6) bis(2-Chloroethyl)ether    | 7.062  | 93   | 2793     | 0.364 | ng     | 100      |
| 9) Naphthalene                | 10.458 | 128  | 6723     | 0.357 | ng     | 99       |
| 10) Hexachlorobutadiene       | 10.746 | 225  | 1495     | 0.367 | ng     | # 98     |
| 12) 2-Methylnaphthalene       | 12.082 | 142  | 4170     | 0.343 | ng     | 99       |
| 16) Acenaphthylene            | 13.989 | 152  | 5922     | 0.366 | ng     | 100      |
| 17) Acenaphthene              | 14.341 | 154  | 3799     | 0.357 | ng     | 100      |
| 18) Fluorene                  | 15.325 | 166  | 4845     | 0.348 | ng     | 99       |
| 20) 4,6-Dinitro-2-methylph... | 15.410 | 198  | 500      | 0.285 | ng     | # 84     |
| 21) 4-Bromophenyl-phenylether | 16.227 | 248  | 1453     | 0.328 | ng     | 97       |
| 22) Hexachlorobenzene         | 16.338 | 284  | 1684     | 0.347 | ng     | 99       |
| 23) Atrazine                  | 16.500 | 200  | 1212     | 0.339 | ng     | 100      |
| 24) Pentachlorophenol         | 16.673 | 266  | 1129     | 0.434 | ng     | 98       |
| 25) Phenanthrene              | 17.058 | 178  | 7651     | 0.350 | ng     | 100      |
| 26) Anthracene                | 17.158 | 178  | 6917     | 0.349 | ng     | 99       |
| 28) Fluoranthene              | 19.091 | 202  | 8047     | 0.328 | ng     | 99       |
| 30) Pyrene                    | 19.454 | 202  | 8127     | 0.366 | ng     | 100      |
| 32) Benzo(a)anthracene        | 21.206 | 228  | 6248     | 0.368 | ng     | 99       |
| 33) Chrysene                  | 21.251 | 228  | 6782     | 0.370 | ng     | 98       |
| 34) Bis(2-ethylhexyl)phtha... | 21.144 | 149  | 3141     | 0.325 | ng     | 100      |
| 36) Indeno(1,2,3-cd)pyrene    | 25.646 | 276  | 5275     | 0.354 | ng     | 98       |
| 37) Benzo(b)fluoranthene      | 22.769 | 252  | 5467     | 0.356 | ng     | 98       |
| 38) Benzo(k)fluoranthene      | 22.810 | 252  | 5750     | 0.373 | ng     | 99       |
| 39) Benzo(a)pyrene            | 23.333 | 252  | 4786     | 0.380 | ng     | 98       |
| 40) Dibenzo(a,h)anthracene    | 25.661 | 278  | 4085     | 0.348 | ng     | 97       |
| 41) Benzo(g,h,i)perylene      | 26.324 | 276  | 4245     | 0.326 | ng     | 99       |
| -----                         |        |      |          |       |        |          |

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

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN042925\  
 Data File : BN036939.D  
 Acq On : 29 Apr 2025 14:54  
 Operator : RC/JU  
 Sample : PB167728BS  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

**Instrument :**

BNA\_N

**ClientSampleId :**

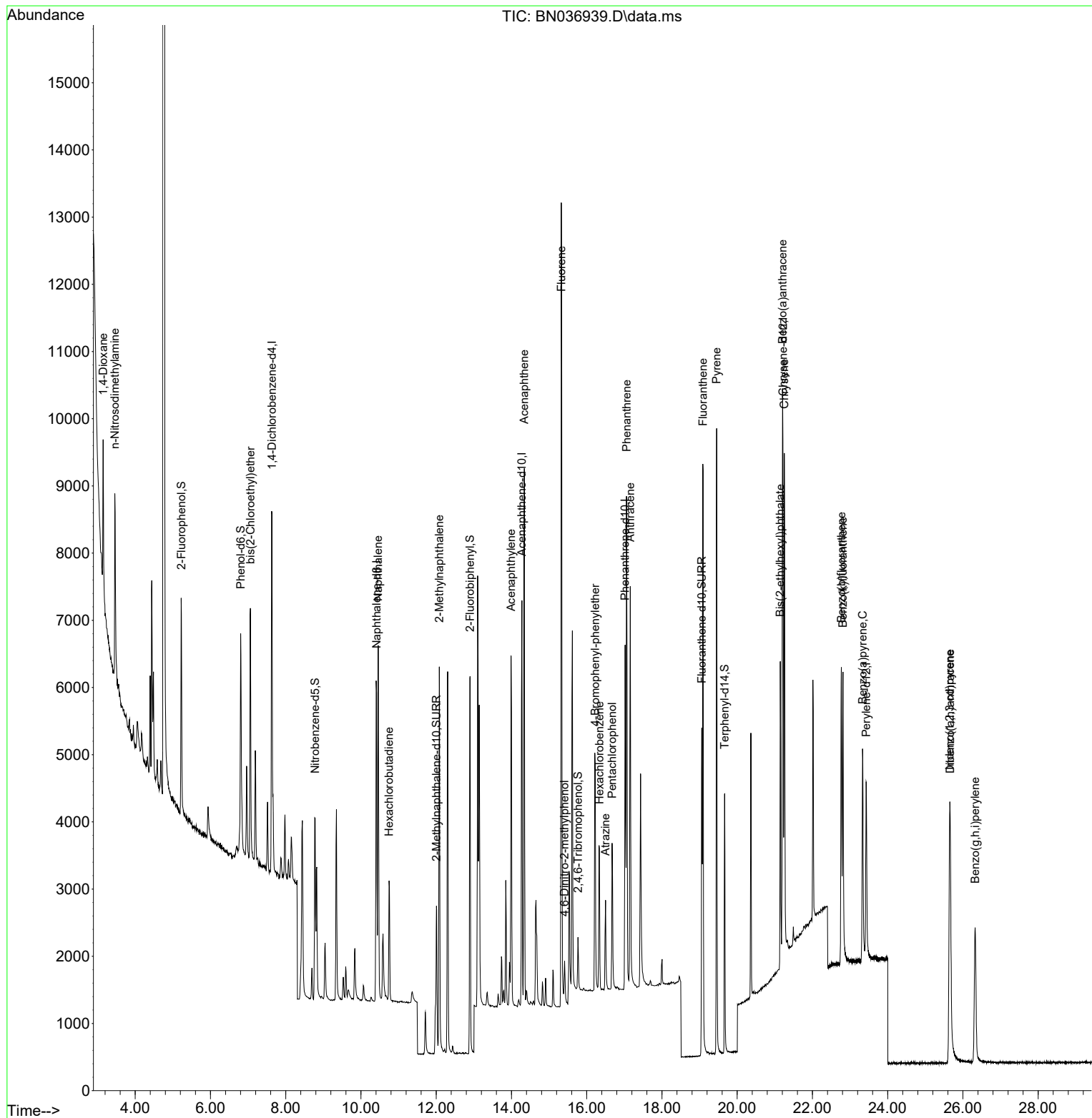
PB167728BS

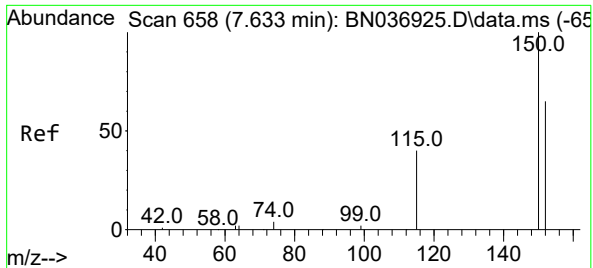
**Manual Integrations****APPROVED**

Reviewed By :Rahul Chavli 04/30/2025

Supervised By :Jagrut Upadhyay 04/30/2025

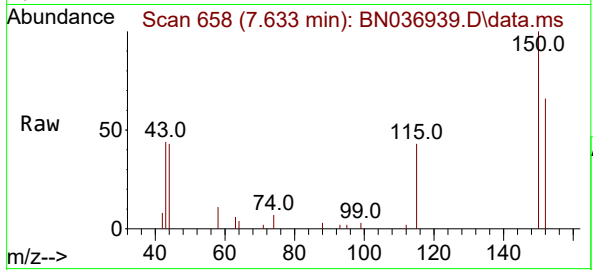
Quant Time: Apr 29 17:05:30 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN042825.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Apr 28 15:35:03 2025  
 Response via : Initial Calibration





#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.633 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: BN036939.D  
Acq: 29 Apr 2025 14:54

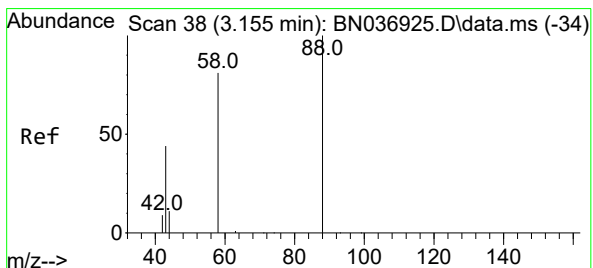
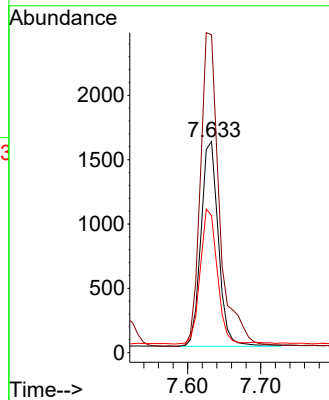
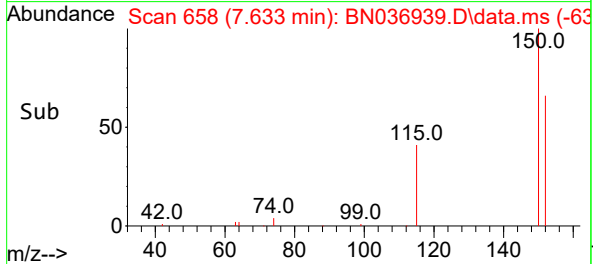
Instrument :  
BNA\_N  
ClientSampleId :  
PB167728BS



Tgt Ion:152 Resp: 2630  
Ion Ratio Lower Upper  
152 100  
150 150.6 121.1 181.7  
115 64.9 51.8 77.6

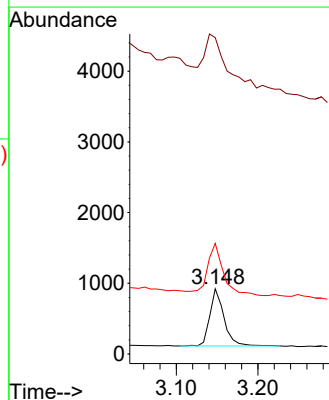
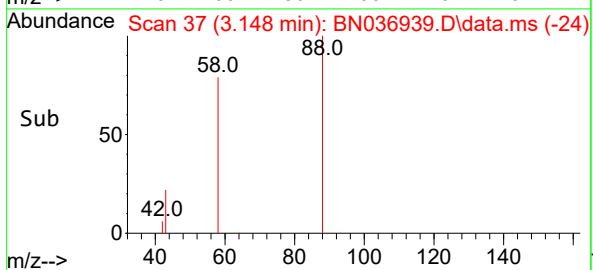
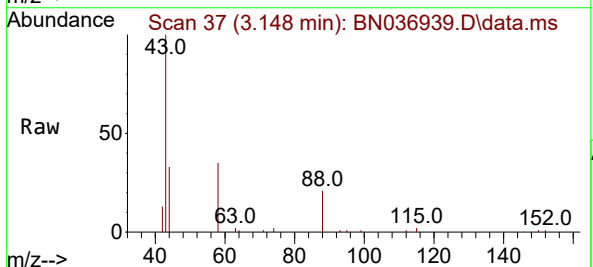
Manual Integrations  
APPROVED

Reviewed By :Rahul Chavli 04/30/2025  
Supervised By :Jagrut Upadhyay 04/30/2025

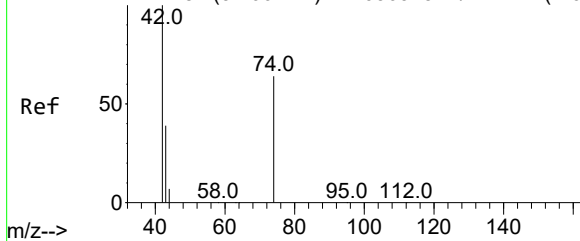


#2  
1,4-Dioxane  
Concen: 0.301 ng  
RT: 3.148 min Scan# 37  
Delta R.T. -0.007 min  
Lab File: BN036939.D  
Acq: 29 Apr 2025 14:54

Tgt Ion: 88 Resp: 987  
Ion Ratio Lower Upper  
88 100  
43 149.1 37.9 56.9#  
58 104.5 65.8 98.6#



Abundance Scan 81 (3.466 min): BN036925.D\data.ms (-76)



#3

n-Nitrosodimethylamine

Concen: 0.364 ng

RT: 3.458 min Scan# 80

Delta R.T. -0.007 min

Lab File: BN036939.D

Acq: 29 Apr 2025 14:54

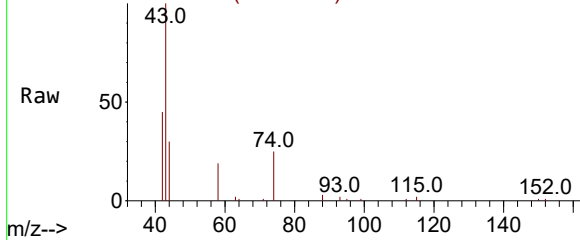
Instrument :

BNA\_N

ClientSampleId :

PB167728BS

Abundance Scan 80 (3.458 min): BN036939.D\data.ms



Tgt Ion: 42 Resp: 2310

Ion Ratio Lower Upper

42 100

74 72.8 59.9 89.9

44 4.5 7.5 11.3

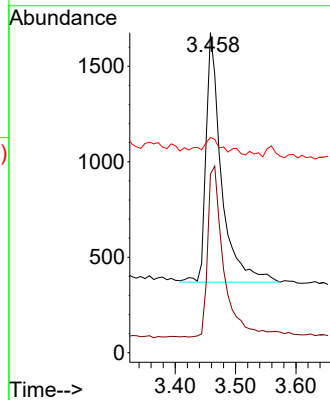
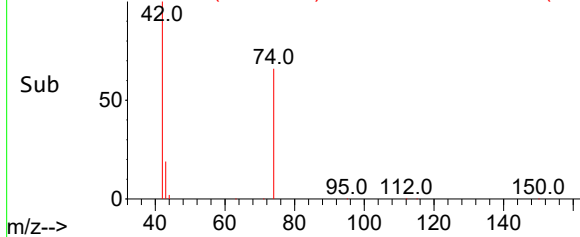
Manual Integrations

APPROVED

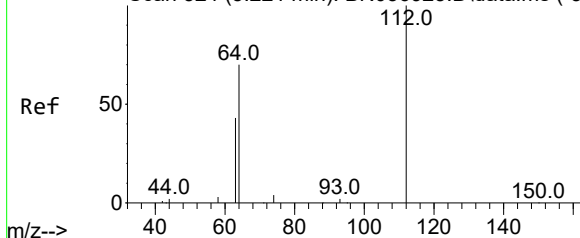
Reviewed By :Rahul Chavli 04/30/2025

Supervised By :Jagrut Upadhyay 04/30/2025

Abundance Scan 80 (3.458 min): BN036939.D\data.ms (-60)



Abundance Scan 324 (5.221 min): BN036925.D\data.ms (-31)



#4

2-Fluorophenol

Concen: 0.340 ng

RT: 5.228 min Scan# 325

Delta R.T. 0.007 min

Lab File: BN036939.D

Acq: 29 Apr 2025 14:54

Tgt Ion:112 Resp: 2288

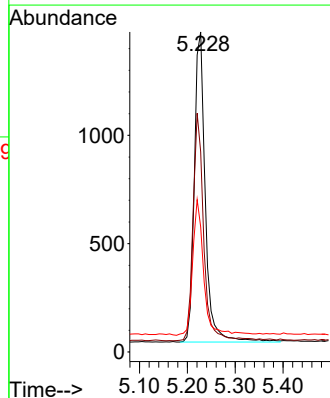
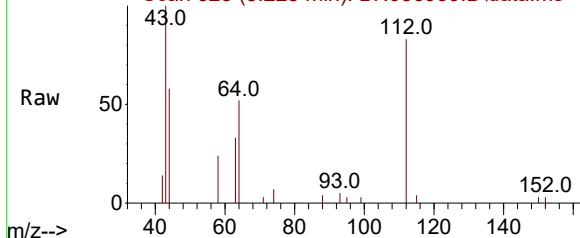
Ion Ratio Lower Upper

112 100

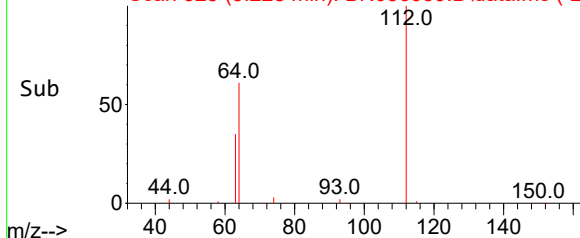
64 70.0 55.7 83.5

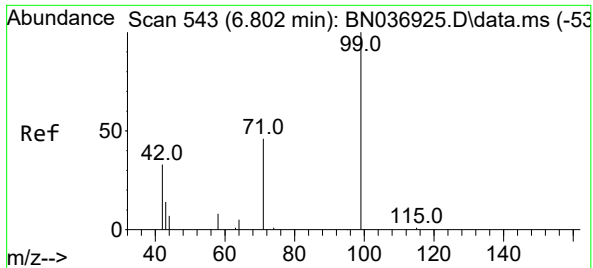
63 44.3 33.9 50.9

Abundance Scan 325 (5.228 min): BN036939.D\data.ms



Abundance Scan 325 (5.228 min): BN036939.D\data.ms (-29)





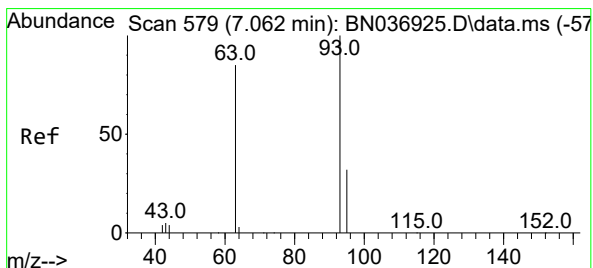
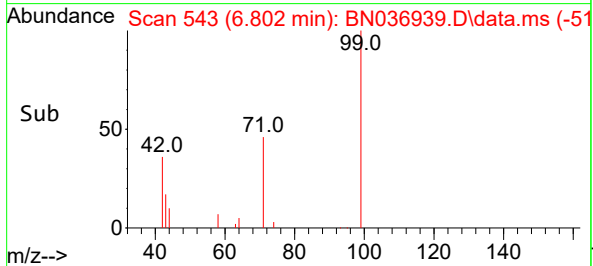
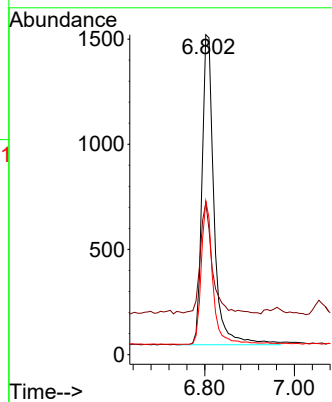
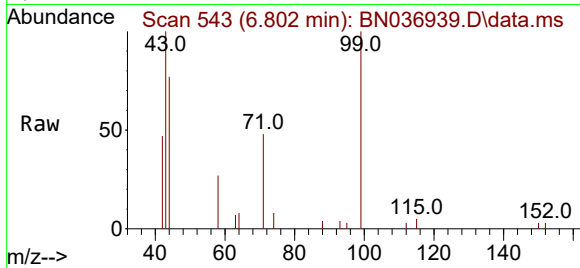
#5  
Phenol-d6  
Concen: 0.334 ng  
RT: 6.802 min Scan# 543  
Delta R.T. -0.000 min  
Lab File: BN036939.D  
Acq: 29 Apr 2025 14:54

Instrument :  
BNA\_N  
ClientSampleId :  
PB167728BS

Tgt Ion: 99 Resp: 276  
Ion Ratio Lower Upper  
99 100  
42 35.1 29.6 44.4  
71 43.8 36.0 54.0

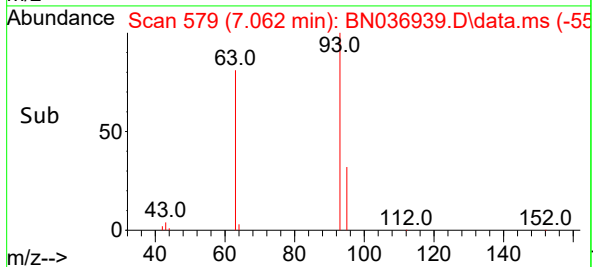
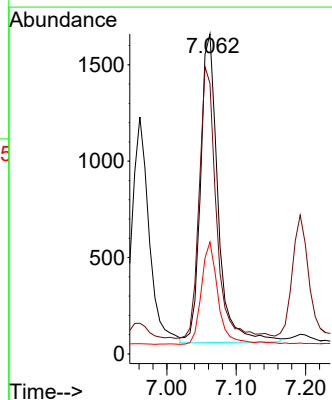
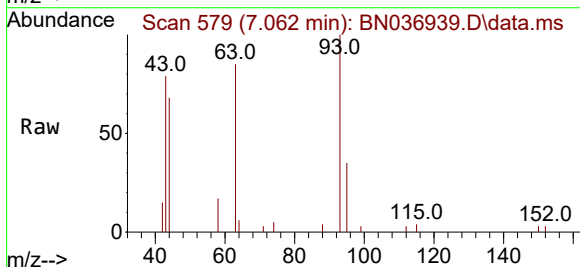
Manual Integrations  
**APPROVED**

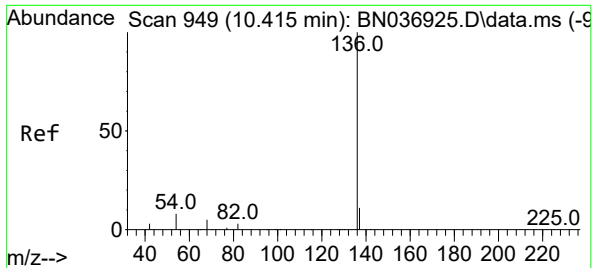
Reviewed By :Rahul Chavli 04/30/2025  
Supervised By :Jagrut Upadhyay 04/30/2025



#6  
bis(2-Chloroethyl)ether  
Concen: 0.364 ng  
RT: 7.062 min Scan# 579  
Delta R.T. -0.000 min  
Lab File: BN036939.D  
Acq: 29 Apr 2025 14:54

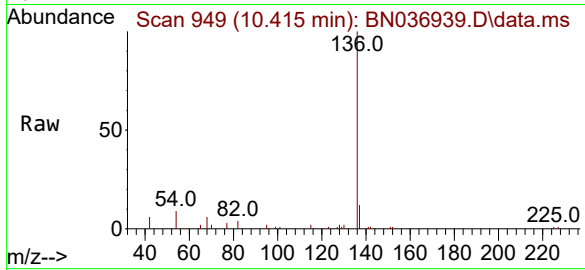
Tgt Ion: 93 Resp: 2793  
Ion Ratio Lower Upper  
93 100  
63 86.0 69.0 103.6  
95 31.4 25.4 38.0





#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.415 min Scan# 949  
Delta R.T. -0.000 min  
Lab File: BN036939.D  
Acq: 29 Apr 2025 14:54

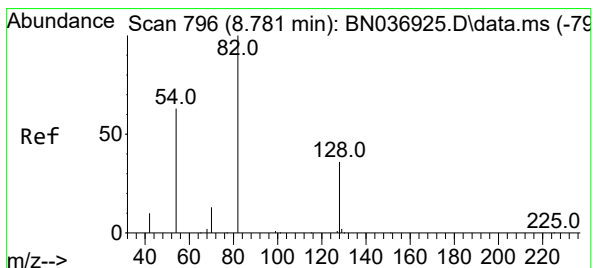
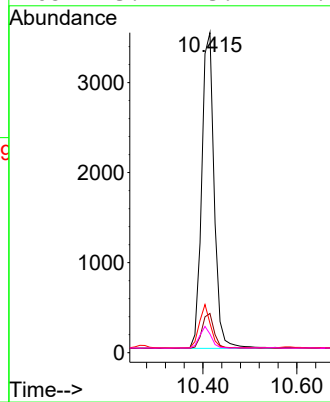
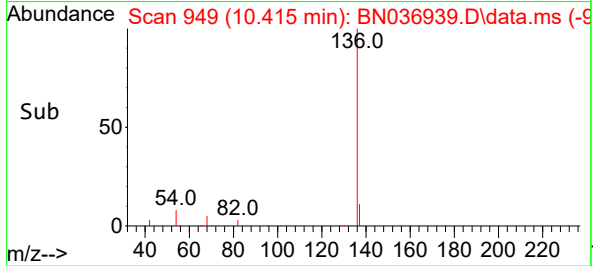
Instrument :  
BNA\_N  
ClientSampleId :  
PB167728BS



Tgt Ion:136 Resp: 6464  
Ion Ratio Lower Upper  
136 100  
137 12.2 9.7 14.5  
54 9.2 8.0 12.0  
68 5.9 5.1 7.7

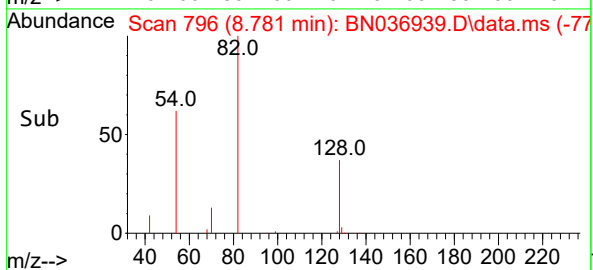
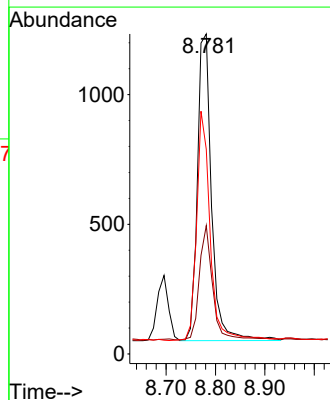
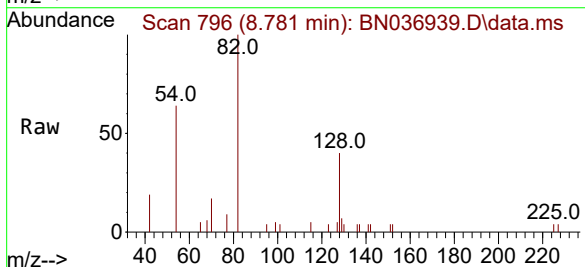
Manual Integrations  
APPROVED

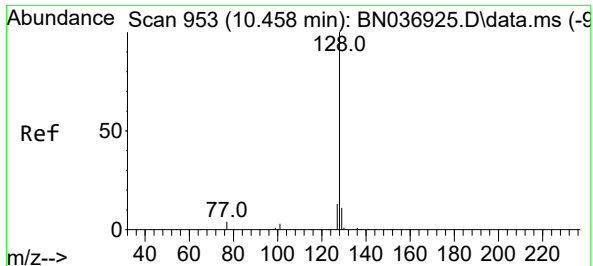
Reviewed By :Rahul Chavli 04/30/2025  
Supervised By :Jagrut Upadhyay 04/30/2025



#8  
Nitrobenzene-d5  
Concen: 0.348 ng  
RT: 8.781 min Scan# 796  
Delta R.T. -0.000 min  
Lab File: BN036939.D  
Acq: 29 Apr 2025 14:54

Tgt Ion: 82 Resp: 2355  
Ion Ratio Lower Upper  
82 100  
128 40.1 30.7 46.1  
54 63.9 52.1 78.1





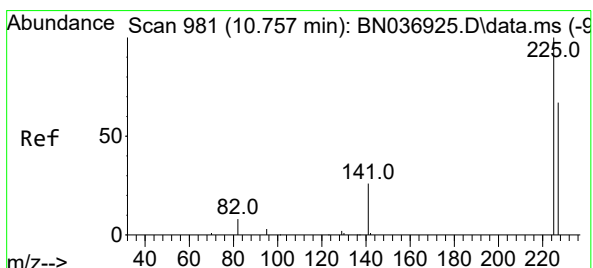
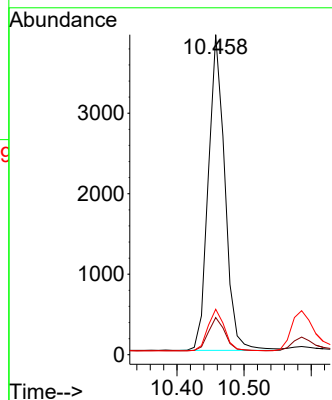
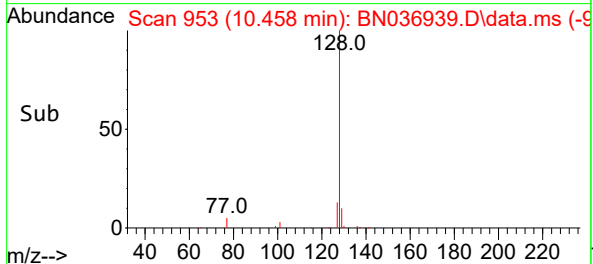
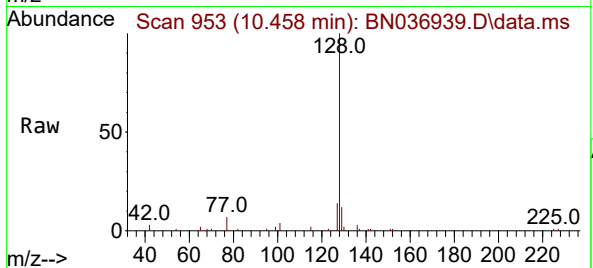
#9  
Naphthalene  
Concen: 0.357 ng  
RT: 10.458 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: BN036939.D  
Acq: 29 Apr 2025 14:54

Instrument :  
BNA\_N  
ClientSampleId :  
PB167728BS

Tgt Ion:128 Resp: 672  
Ion Ratio Lower Upper  
128 100  
129 11.6 9.8 14.6  
127 14.2 11.4 17.2

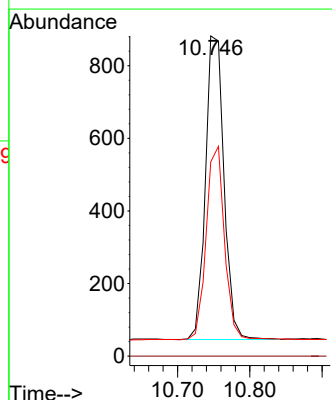
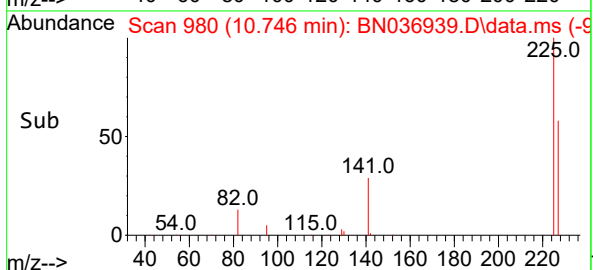
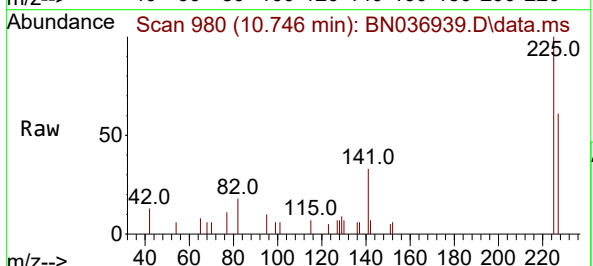
Manual Integrations  
APPROVED

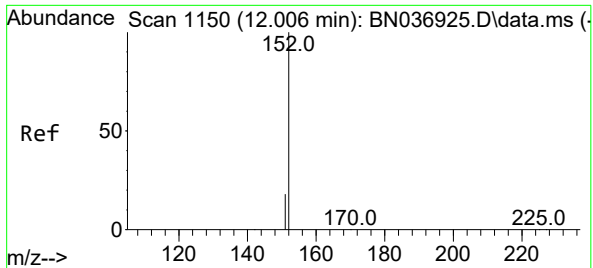
Reviewed By :Rahul Chavli 04/30/2025  
Supervised By :Jagrut Upadhyay 04/30/2025



#10  
Hexachlorobutadiene  
Concen: 0.367 ng  
RT: 10.746 min Scan# 980  
Delta R.T. -0.011 min  
Lab File: BN036939.D  
Acq: 29 Apr 2025 14:54

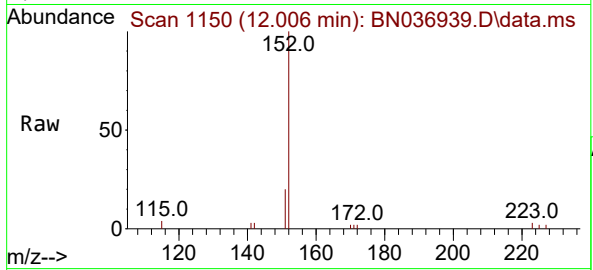
Tgt Ion:225 Resp: 1495  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 63.3 52.2 78.4





#11  
2-Methylnaphthalene-d10  
Concen: 0.373 ng m  
RT: 12.006 min Scan# 1150  
Delta R.T. -0.000 min  
Lab File: BN036939.D  
Acq: 29 Apr 2025 14:54

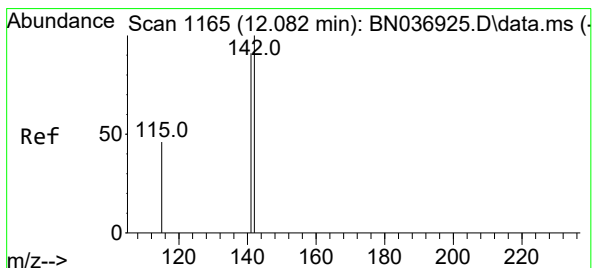
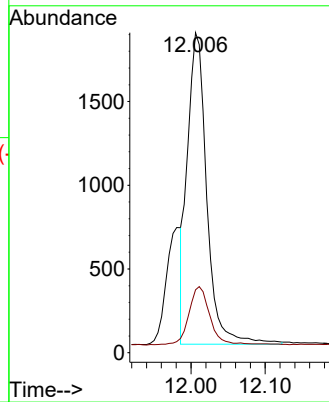
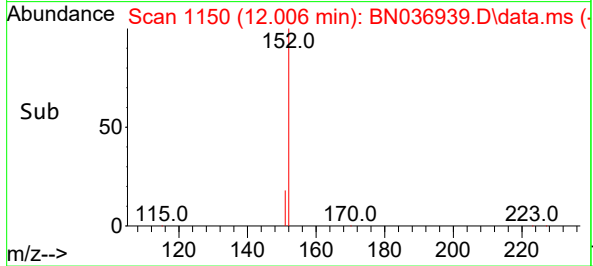
Instrument :  
BNA\_N  
ClientSampleId :  
PB167728BS



Tgt Ion:152 Resp: 3375  
Ion Ratio Lower Upper  
152 100  
151 21.0 16.9 25.3

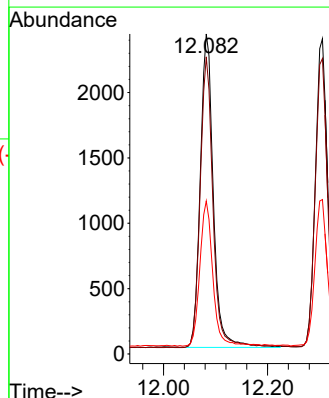
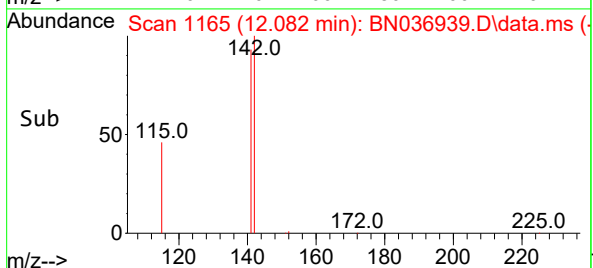
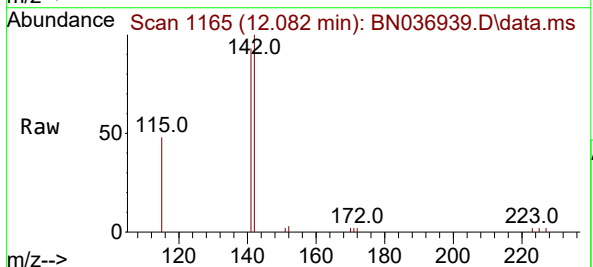
Manual Integrations  
APPROVED

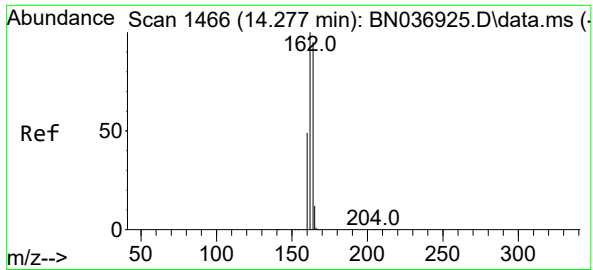
Reviewed By :Rahul Chavli 04/30/2025  
Supervised By :Jagrut Upadhyay 04/30/2025



#12  
2-Methylnaphthalene  
Concen: 0.343 ng  
RT: 12.082 min Scan# 1165  
Delta R.T. -0.000 min  
Lab File: BN036939.D  
Acq: 29 Apr 2025 14:54

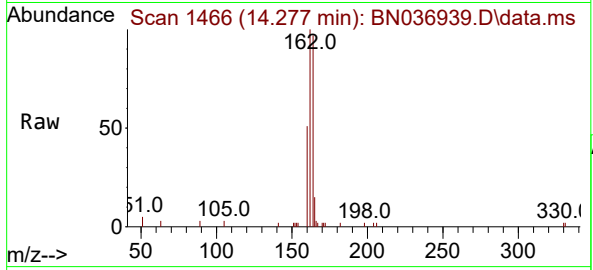
Tgt Ion:142 Resp: 4170  
Ion Ratio Lower Upper  
142 100  
141 92.9 72.8 109.2  
115 47.8 38.2 57.4





#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.277 min Scan# 1466  
Delta R.T. -0.000 min  
Lab File: BN036939.D  
Acq: 29 Apr 2025 14:54

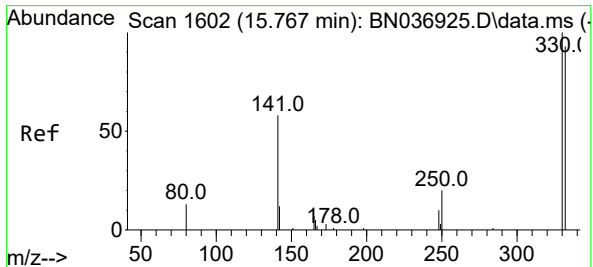
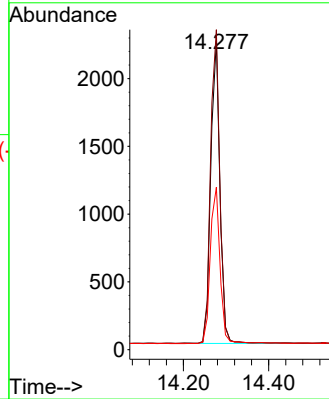
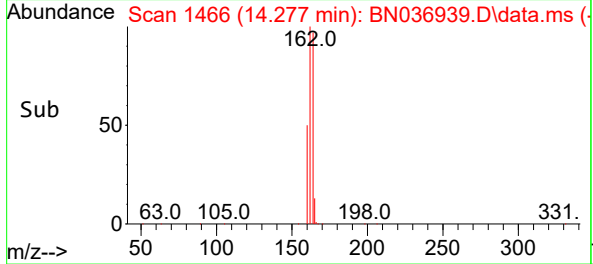
Instrument :  
BNA\_N  
ClientSampleId :  
PB167728BS



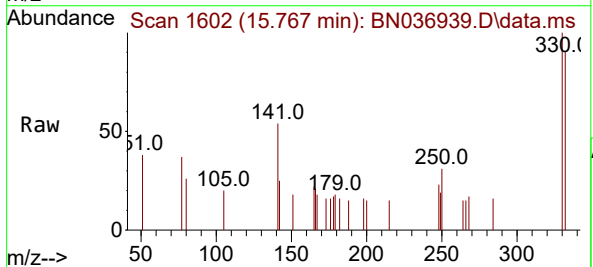
Tgt Ion:164 Resp: 331.0  
Ion Ratio Lower Upper  
164 100  
162 103.5 83.8 125.8  
160 52.5 42.0 63.0

Manual Integrations  
**APPROVED**

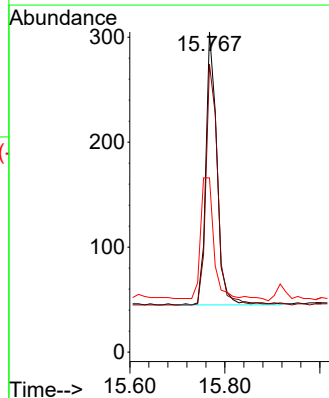
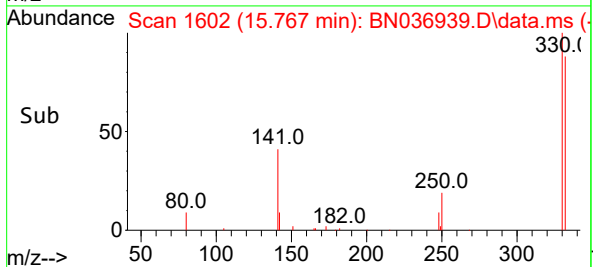
Reviewed By :Rahul Chavli 04/30/2025  
Supervised By :Jagrut Upadhyay 04/30/2025

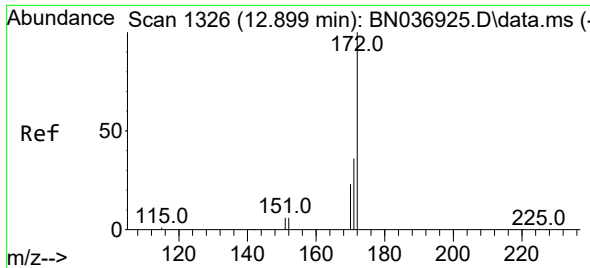


#14  
2,4,6-Tribromophenol  
Concen: 0.288 ng  
RT: 15.767 min Scan# 1602  
Delta R.T. -0.000 min  
Lab File: BN036939.D  
Acq: 29 Apr 2025 14:54



Tgt Ion:330 Resp: 425  
Ion Ratio Lower Upper  
330 100  
332 92.2 76.3 114.5  
141 56.7 45.4 68.2





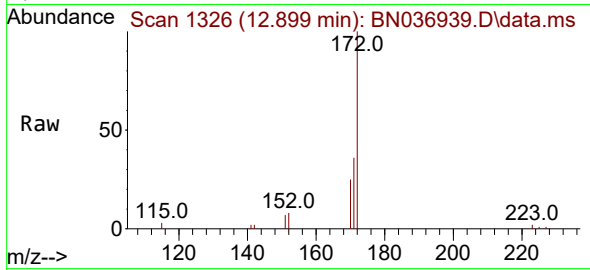
#15  
2-Fluorobiphenyl  
Concen: 0.367 ng  
RT: 12.899 min Scan# 1439  
Delta R.T. -0.000 min  
Lab File: BN036939.D  
Acq: 29 Apr 2025 14:54

Instrument :

BNA\_N

ClientSampleId :

PB167728BS



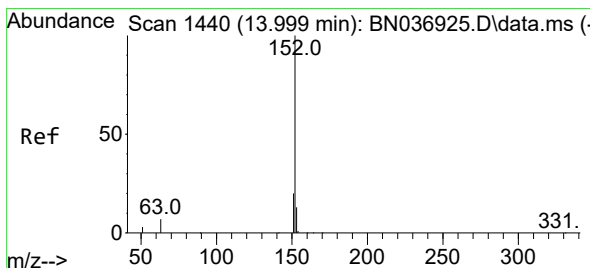
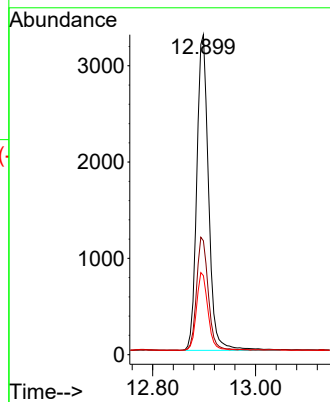
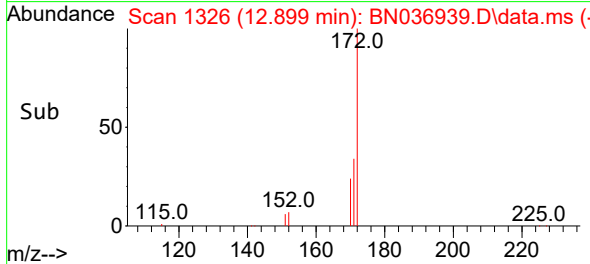
Tgt Ion:172 Resp: 5870  
Ion Ratio Lower Upper  
172 100  
171 35.6 29.4 44.0  
170 24.7 19.4 29.0

Manual Integrations

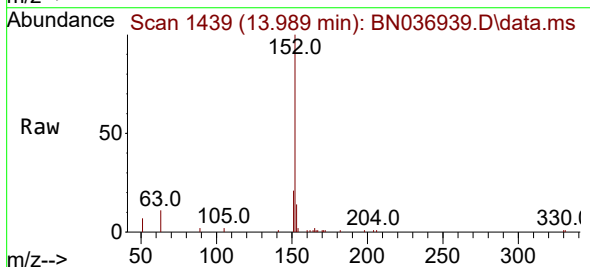
APPROVED

Reviewed By :Rahul Chavli 04/30/2025

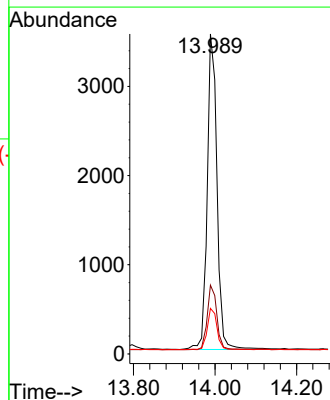
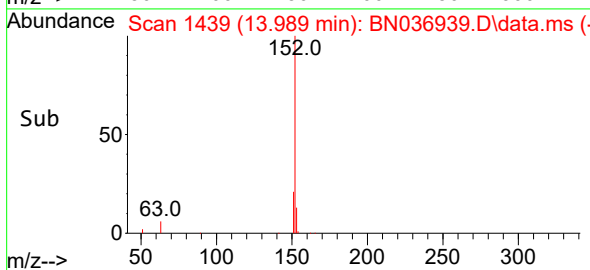
Supervised By :Jagrut Upadhyay 04/30/2025

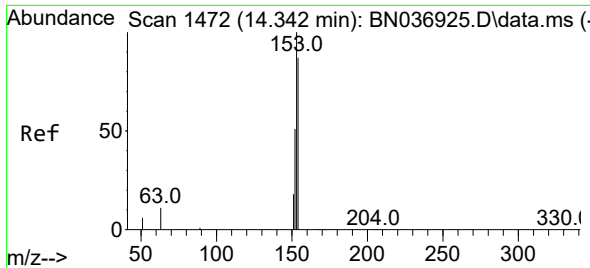


#16  
Acenaphthylene  
Concen: 0.366 ng  
RT: 13.989 min Scan# 1439  
Delta R.T. -0.011 min  
Lab File: BN036939.D  
Acq: 29 Apr 2025 14:54



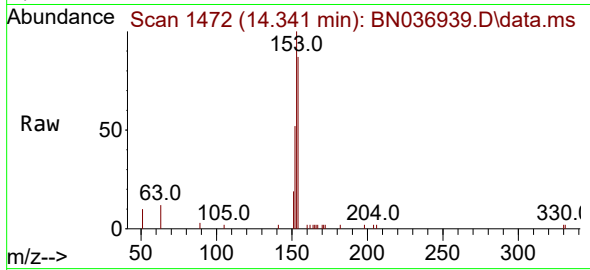
Tgt Ion:152 Resp: 5922  
Ion Ratio Lower Upper  
152 100  
151 20.1 16.0 24.0  
153 13.1 10.2 15.2





#17  
Acenaphthene  
Concen: 0.357 ng  
RT: 14.341 min Scan# 1472  
Delta R.T. -0.000 min  
Lab File: BN036939.D  
Acq: 29 Apr 2025 14:54

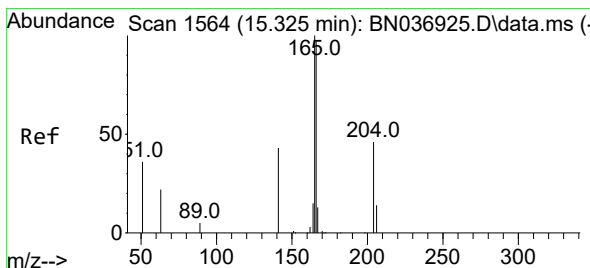
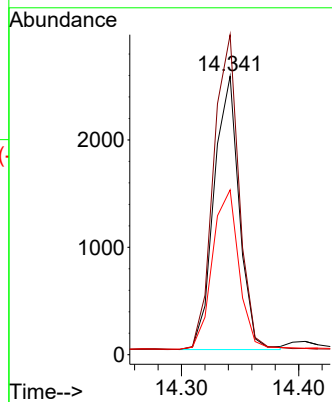
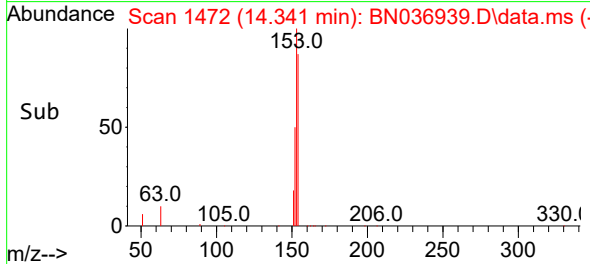
Instrument :  
BNA\_N  
ClientSampleId :  
PB167728BS



Tgt Ion:154 Resp: 3799  
Ion Ratio Lower Upper  
154 100  
153 116.8 93.4 140.2  
152 61.7 49.5 74.3

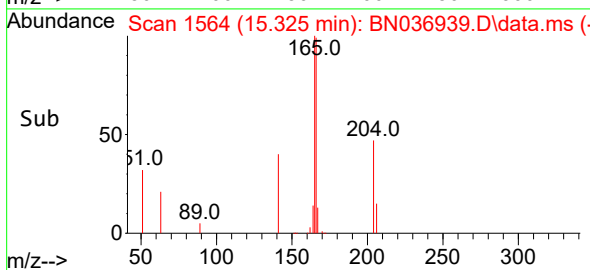
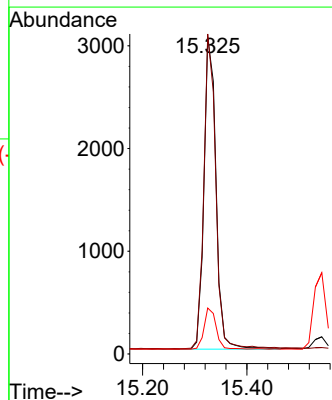
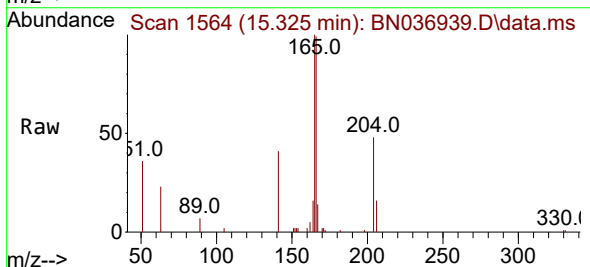
Manual Integrations  
APPROVED

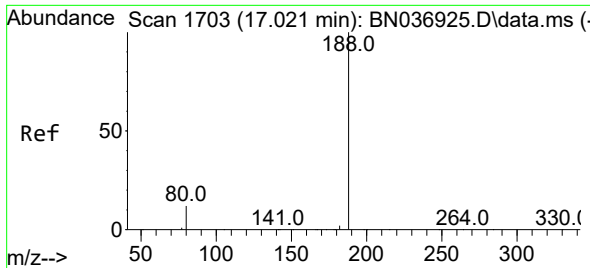
Reviewed By :Rahul Chavli 04/30/2025  
Supervised By :Jagrut Upadhyay 04/30/2025



#18  
Fluorene  
Concen: 0.348 ng  
RT: 15.325 min Scan# 1564  
Delta R.T. -0.000 min  
Lab File: BN036939.D  
Acq: 29 Apr 2025 14:54

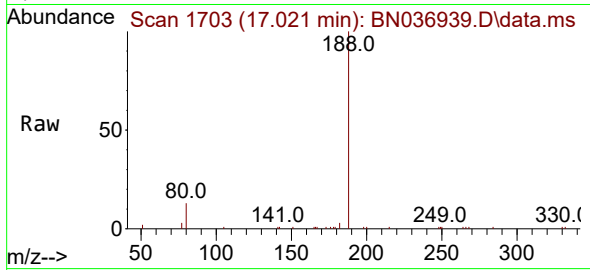
Tgt Ion:166 Resp: 4845  
Ion Ratio Lower Upper  
166 100  
165 100.0 80.8 121.2  
167 13.3 10.8 16.2





#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 17.021 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: BN036939.D  
Acq: 29 Apr 2025 14:54

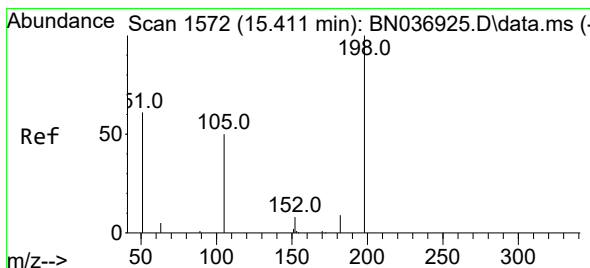
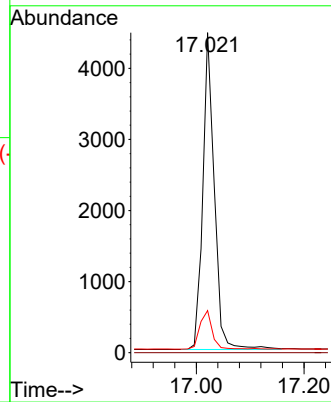
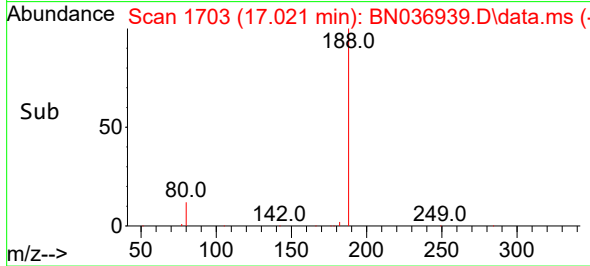
Instrument :  
BNA\_N  
ClientSampleId :  
PB167728BS



Tgt Ion:188 Resp: 6630  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 13.1 10.7 16.1

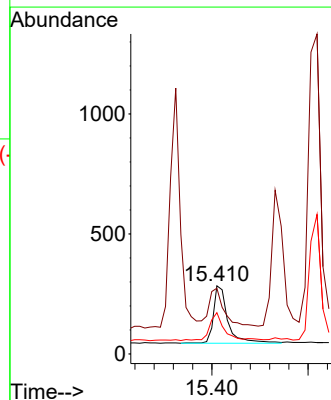
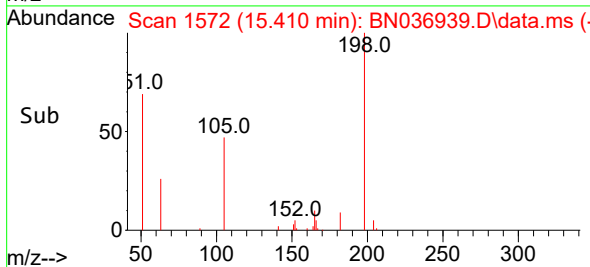
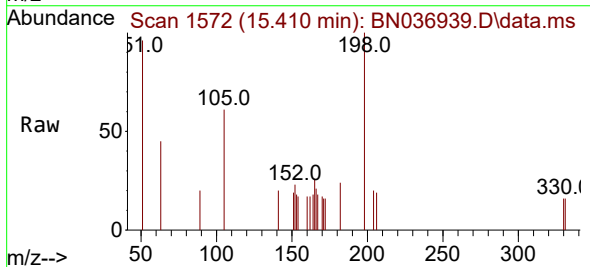
Manual Integrations  
**APPROVED**

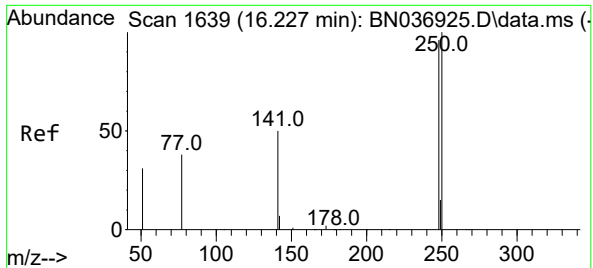
Reviewed By :Rahul Chavli 04/30/2025  
Supervised By :Jagrut Upadhyay 04/30/2025



#20  
4,6-Dinitro-2-methylphenol  
Concen: 0.285 ng  
RT: 15.410 min Scan# 1572  
Delta R.T. -0.001 min  
Lab File: BN036939.D  
Acq: 29 Apr 2025 14:54

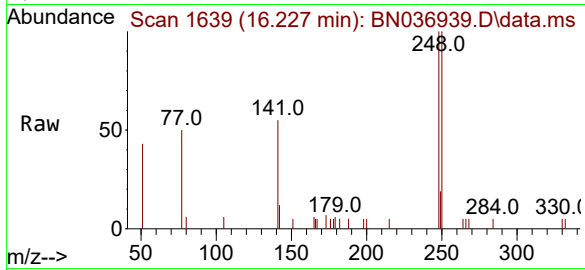
Tgt Ion:198 Resp: 500  
Ion Ratio Lower Upper  
198 100  
51 96.5 97.9 146.9#  
105 60.6 50.0 75.0





#21  
4-Bromophenyl-phenylether  
Concen: 0.328 ng  
RT: 16.227 min Scan# 1639  
Delta R.T. -0.000 min  
Lab File: BN036939.D  
Acq: 29 Apr 2025 14:54

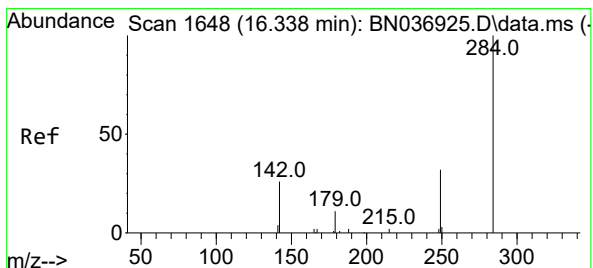
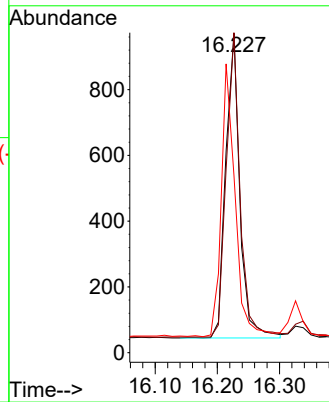
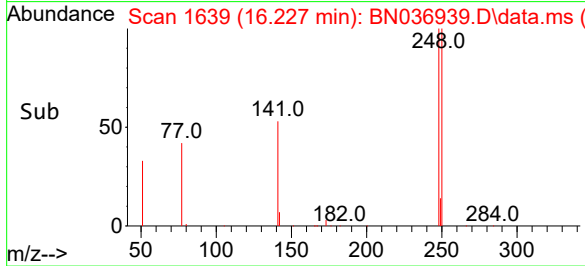
Instrument :  
BNA\_N  
ClientSampleId :  
PB167728BS



Tgt Ion:248 Resp: 145  
Ion Ratio Lower Upper  
248 100  
250 100.2 83.7 125.5  
141 55.5 43.8 65.8

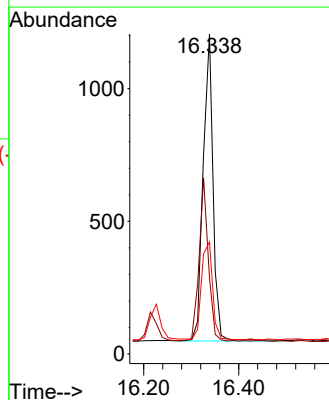
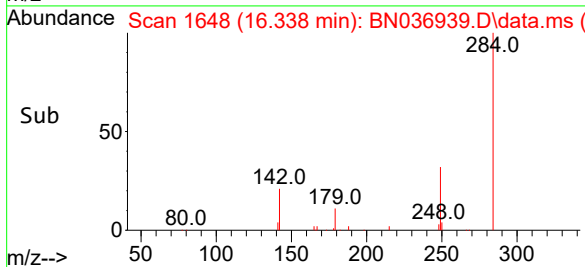
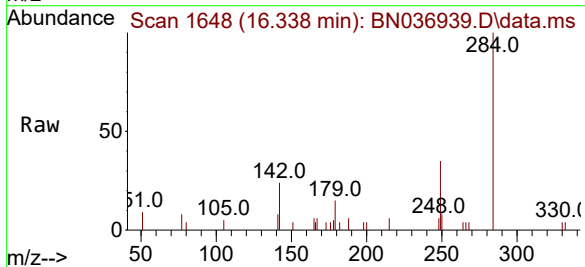
Manual Integrations  
APPROVED

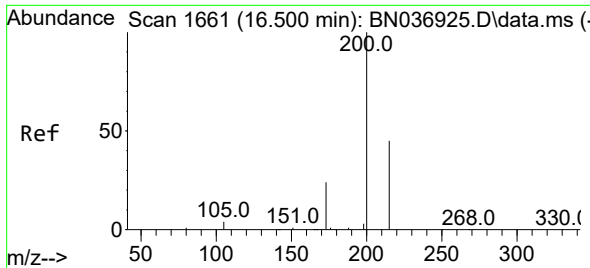
Reviewed By :Rahul Chavli 04/30/2025  
Supervised By :Jagrut Upadhyay 04/30/2025



#22  
Hexachlorobenzene  
Concen: 0.347 ng  
RT: 16.338 min Scan# 1648  
Delta R.T. -0.000 min  
Lab File: BN036939.D  
Acq: 29 Apr 2025 14:54

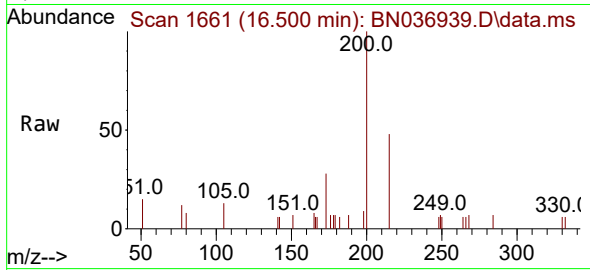
Tgt Ion:284 Resp: 1684  
Ion Ratio Lower Upper  
284 100  
142 49.5 40.0 60.0  
249 35.5 28.2 42.2





#23  
Atrazine  
Concen: 0.339 ng  
RT: 16.500 min Scan# 1661  
Delta R.T. -0.000 min  
Lab File: BN036939.D  
Acq: 29 Apr 2025 14:54

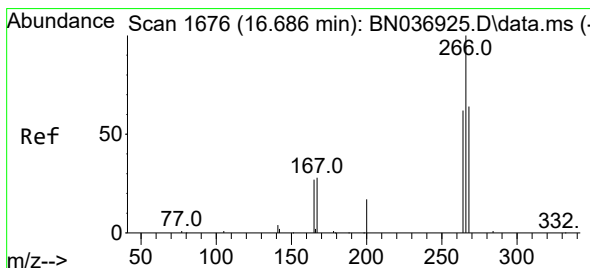
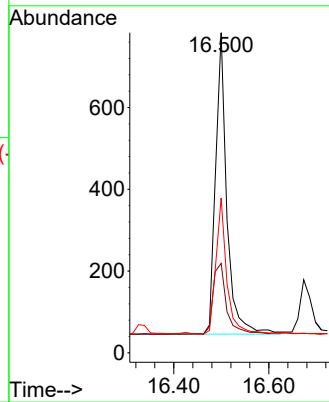
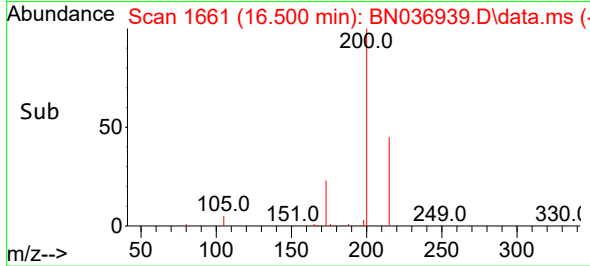
Instrument :  
BNA\_N  
ClientSampleId :  
PB167728BS



Tgt Ion:200 Resp: 121  
Ion Ratio Lower Upper  
200 100  
173 28.0 22.4 33.6  
215 48.4 38.6 57.8

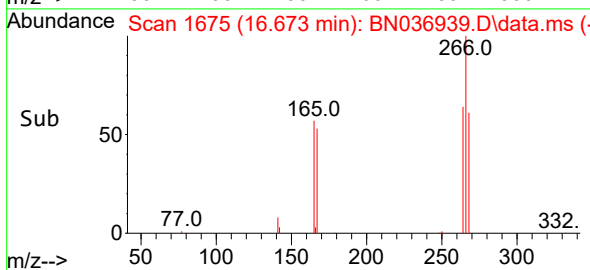
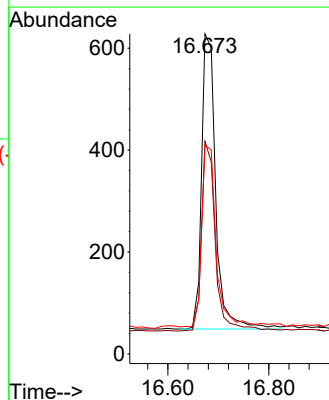
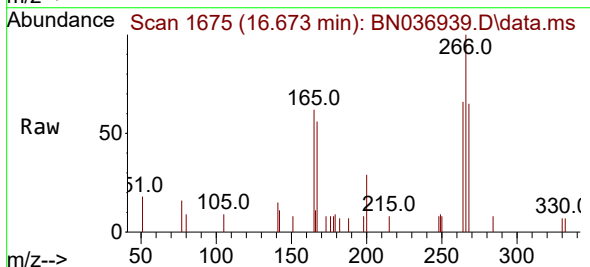
Manual Integrations  
APPROVED

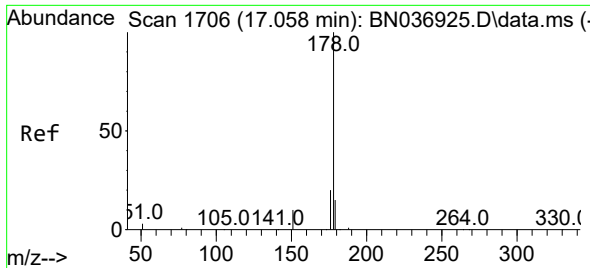
Reviewed By :Rahul Chavli 04/30/2025  
Supervised By :Jagrut Upadhyay 04/30/2025



#24  
Pentachlorophenol  
Concen: 0.434 ng  
RT: 16.673 min Scan# 1675  
Delta R.T. -0.013 min  
Lab File: BN036939.D  
Acq: 29 Apr 2025 14:54

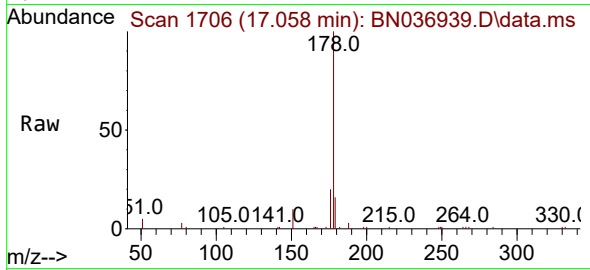
Tgt Ion:266 Resp: 1129  
Ion Ratio Lower Upper  
266 100  
264 62.7 49.9 74.9  
268 63.0 52.2 78.4





#25  
Phenanthrene  
Concen: 0.350 ng  
RT: 17.058 min Scan# 1706  
Delta R.T. -0.000 min  
Lab File: BN036939.D  
Acq: 29 Apr 2025 14:54

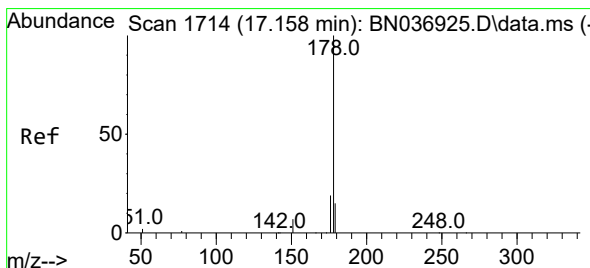
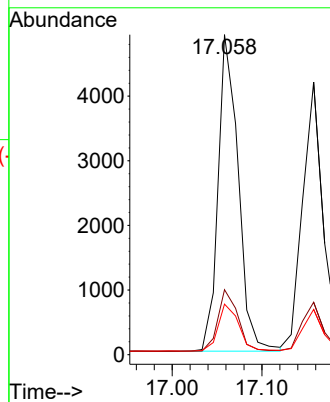
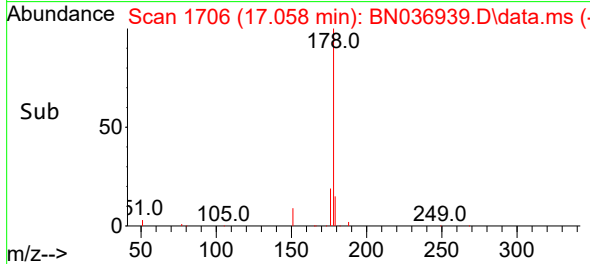
Instrument :  
BNA\_N  
ClientSampleId :  
PB167728BS



Tgt Ion:178 Resp: 765  
Ion Ratio Lower Upper  
178 100  
176 19.5 15.7 23.5  
179 15.4 12.4 18.6

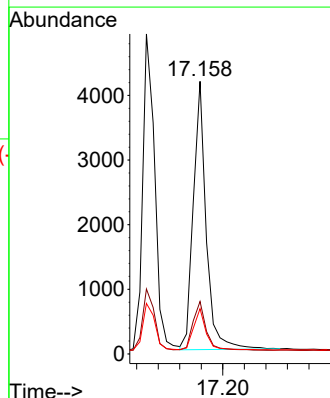
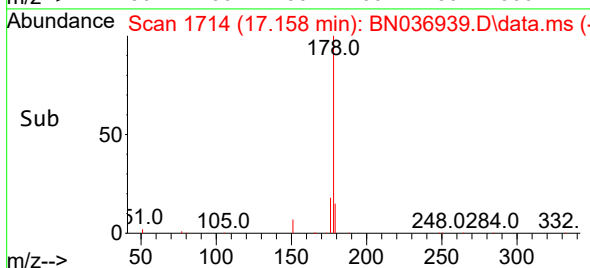
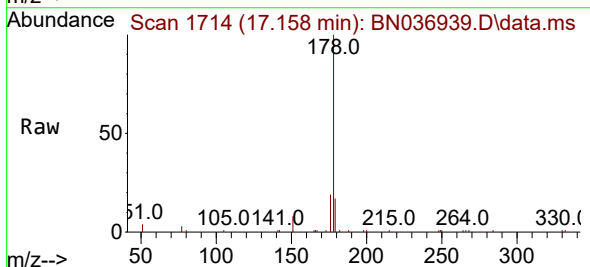
Manual Integrations  
**APPROVED**

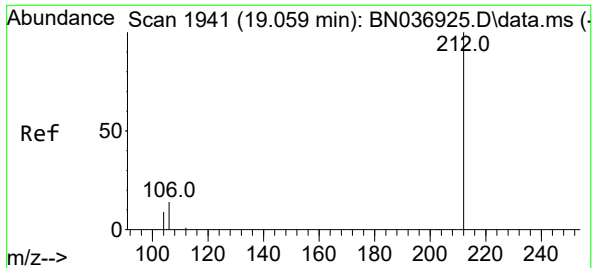
Reviewed By :Rahul Chavli 04/30/2025  
Supervised By :Jagrut Upadhyay 04/30/2025



#26  
Anthracene  
Concen: 0.349 ng  
RT: 17.158 min Scan# 1714  
Delta R.T. -0.000 min  
Lab File: BN036939.D  
Acq: 29 Apr 2025 14:54

Tgt Ion:178 Resp: 6917  
Ion Ratio Lower Upper  
178 100  
176 18.9 15.3 22.9  
179 15.4 12.1 18.1





#27

Fluoranthene-d10

Concen: 0.328 ng

RT: 19.059 min Scan# 1941

Delta R.T. -0.000 min

Lab File: BN036939.D

Acq: 29 Apr 2025 14:54

Instrument :

BNA\_N

ClientSampleId :

PB167728BS

Tgt Ion:212 Resp: 5638

Ion Ratio Lower Upper

212 100

106 14.3 11.6 17.4

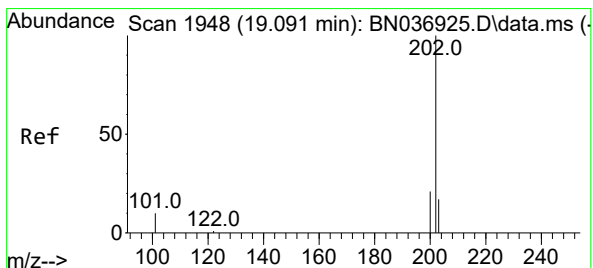
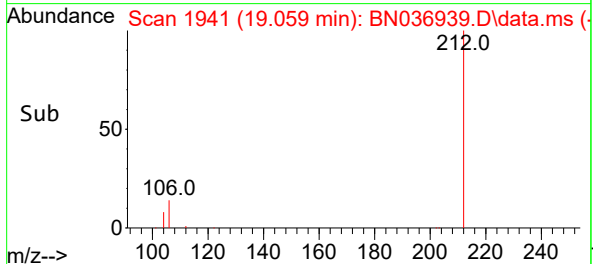
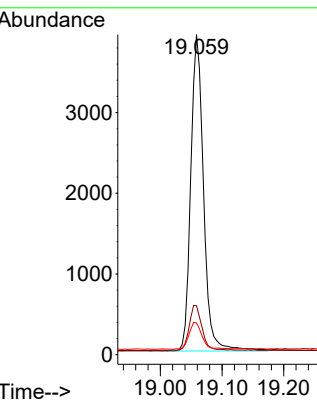
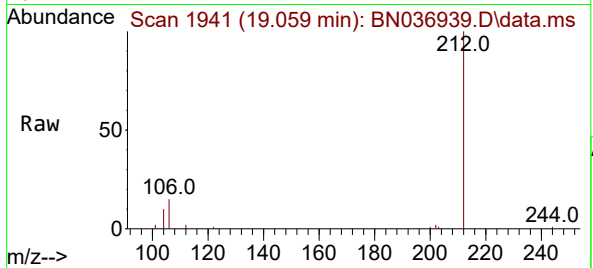
104 8.7 7.0 10.4

Manual Integrations

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Reviewed By :Rahul Chavli 04/30/2025

Supervised By :Jagrut Upadhyay 04/30/2025



#28

Fluoranthene

Concen: 0.328 ng

RT: 19.091 min Scan# 1948

Delta R.T. -0.000 min

Lab File: BN036939.D

Acq: 29 Apr 2025 14:54

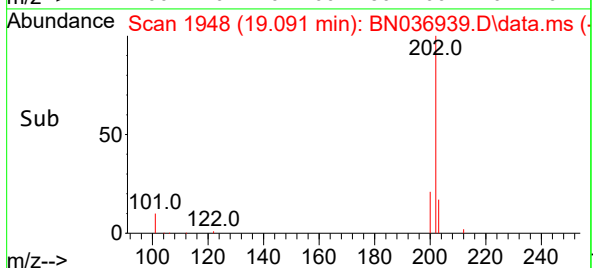
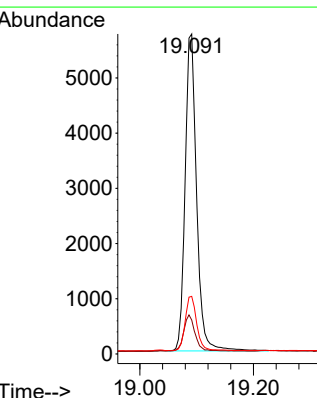
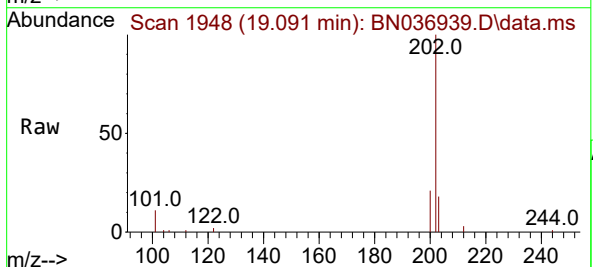
Tgt Ion:202 Resp: 8047

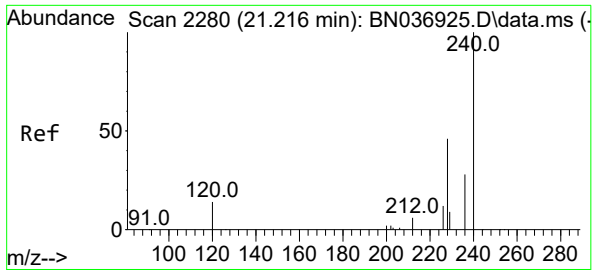
Ion Ratio Lower Upper

202 100

101 11.6 8.5 12.7

203 17.4 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.215 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036939.D

Acq: 29 Apr 2025 14:54

Instrument :

BNA\_N

ClientSampleId :

PB167728BS

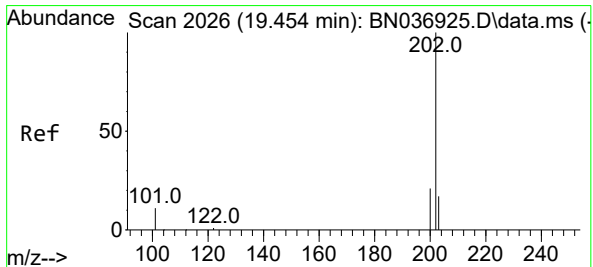
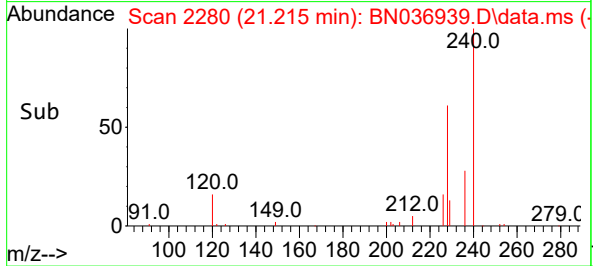
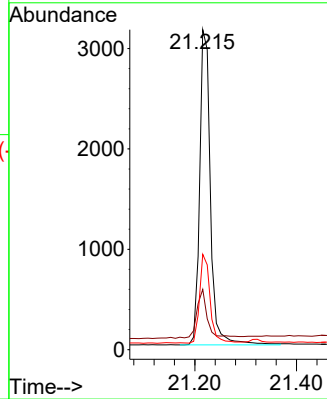
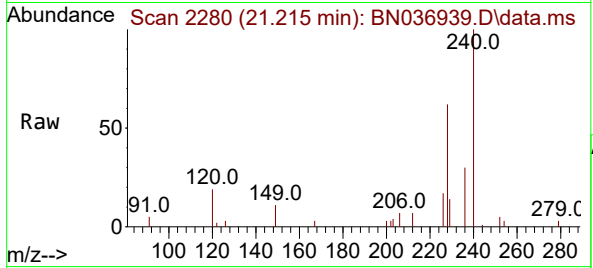
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 240   | Resp: | 461  |
| Ion Ratio | Lower | Upper |      |
| 240       | 100   |       |      |
| 120       | 18.9  | 14.1  | 21.1 |
| 236       | 29.8  | 23.8  | 35.8 |

Manual Integrations

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Reviewed By :Rahul Chavli 04/30/2025

Supervised By :Jagrut Upadhyay 04/30/2025



#30

Pyrene

Concen: 0.366 ng

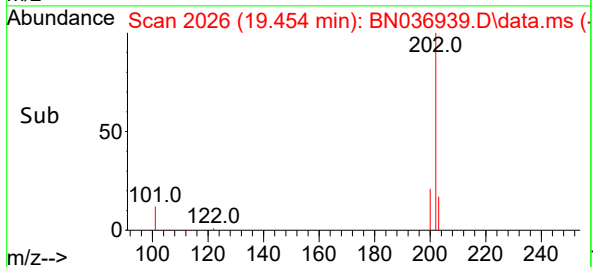
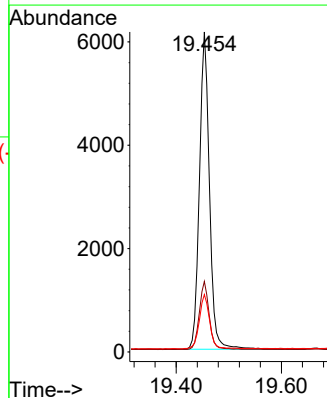
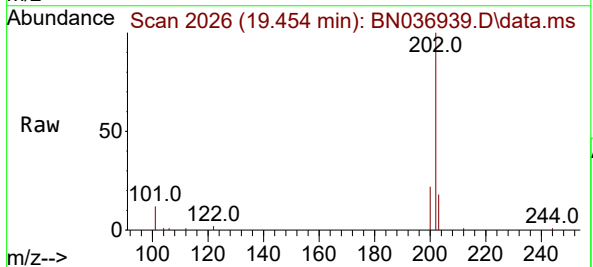
RT: 19.454 min Scan# 2026

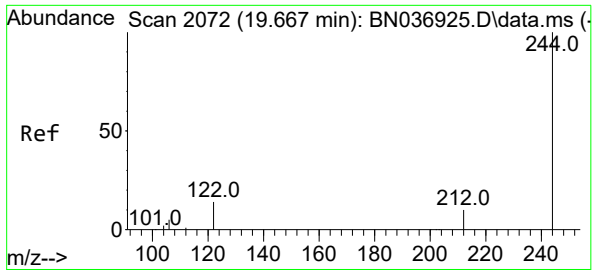
Delta R.T. -0.000 min

Lab File: BN036939.D

Acq: 29 Apr 2025 14:54

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 202   | Resp: | 8127 |
| Ion Ratio | Lower | Upper |      |
| 202       | 100   |       |      |
| 200       | 21.1  | 17.0  | 25.6 |
| 203       | 17.5  | 14.0  | 21.0 |





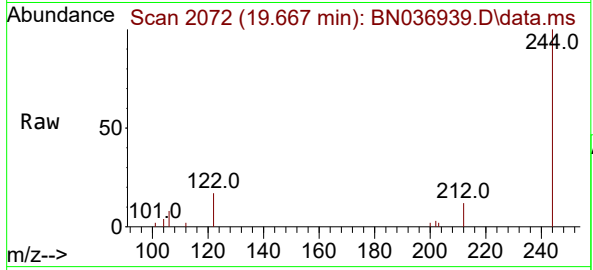
#31  
Terphenyl-d14  
Concen: 0.357 ng  
RT: 19.667 min Scan# 2072  
Delta R.T. -0.000 min  
Lab File: BN036939.D  
Acq: 29 Apr 2025 14:54

Instrument :

BNA\_N

ClientSampleId :

PB167728BS

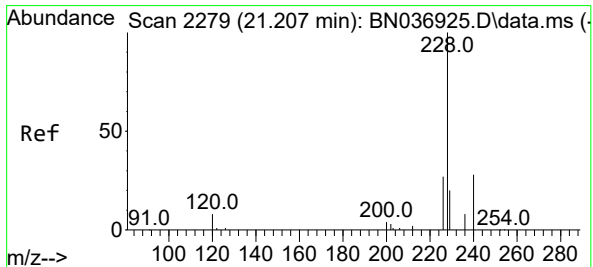
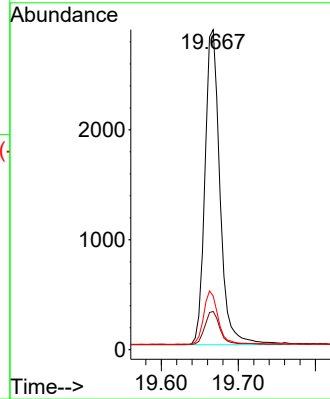
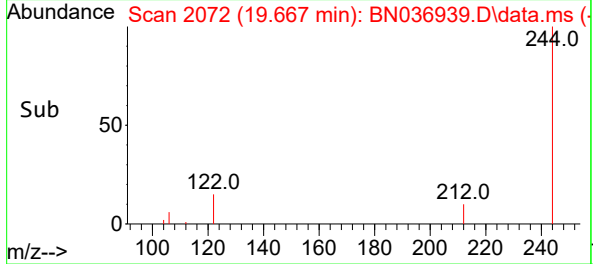


Tgt Ion:244 Resp: 389  
Ion Ratio Lower Upper  
244 100  
212 12.0 9.6 14.4  
122 16.8 12.7 19.1

Manual Integrations

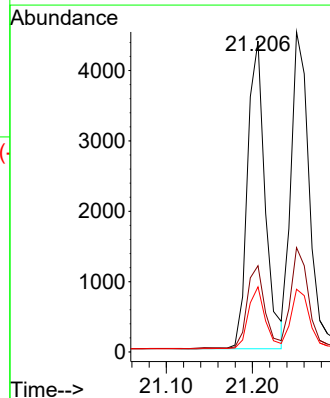
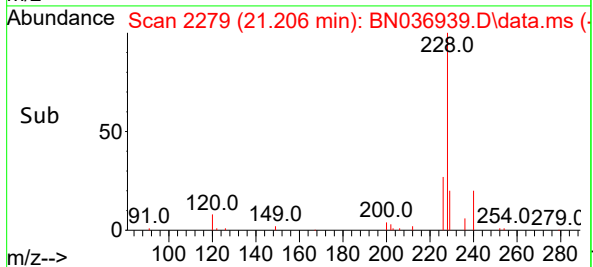
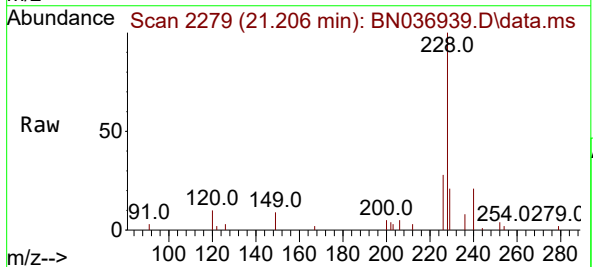
APPROVED

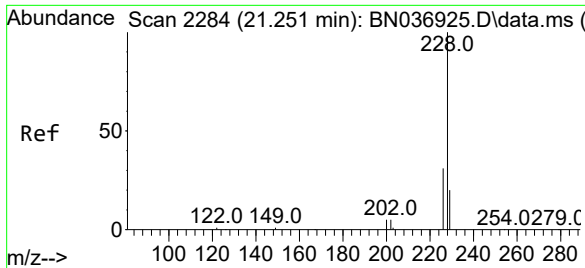
Reviewed By :Rahul Chavli 04/30/2025  
Supervised By :Jagrut Upadhyay 04/30/2025



#32  
Benzo(a)anthracene  
Concen: 0.368 ng  
RT: 21.206 min Scan# 2279  
Delta R.T. -0.000 min  
Lab File: BN036939.D  
Acq: 29 Apr 2025 14:54

Tgt Ion:228 Resp: 6248  
Ion Ratio Lower Upper  
228 100  
226 27.7 22.2 33.4  
229 21.0 16.4 24.6





#33

Chrysene

Concen: 0.370 ng

RT: 21.251 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036939.D

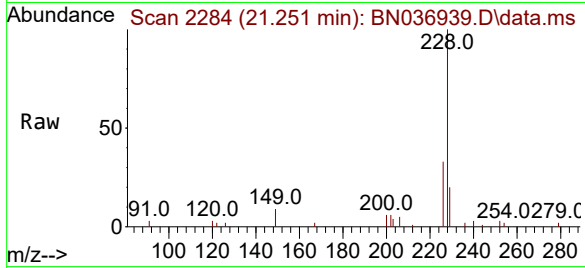
Acq: 29 Apr 2025 14:54

Instrument :

BNA\_N

ClientSampleId :

PB167728BS



Tgt Ion:228 Resp: 678

Ion Ratio Lower Upper

228 100

226 32.6 25.5 38.3

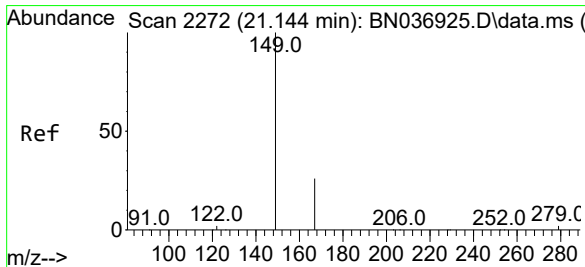
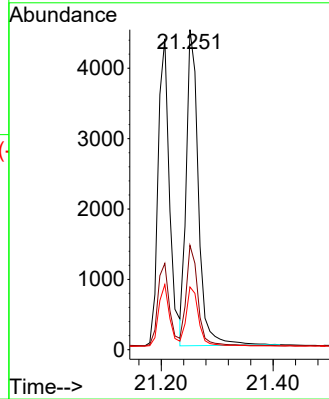
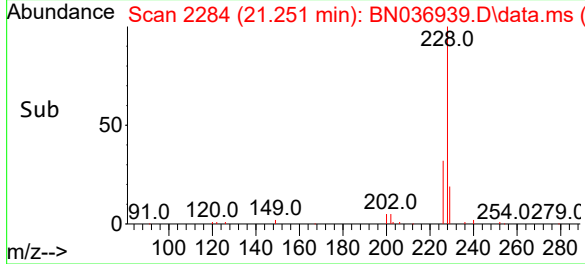
229 19.6 16.5 24.7

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 04/30/2025

Supervised By :Jagrut Upadhyay 04/30/2025



#34

Bis(2-ethylhexyl)phthalate

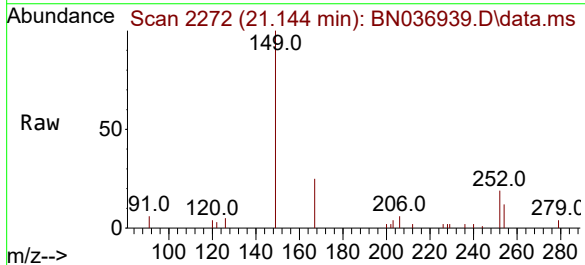
Concen: 0.325 ng

RT: 21.144 min Scan# 2272

Delta R.T. -0.000 min

Lab File: BN036939.D

Acq: 29 Apr 2025 14:54



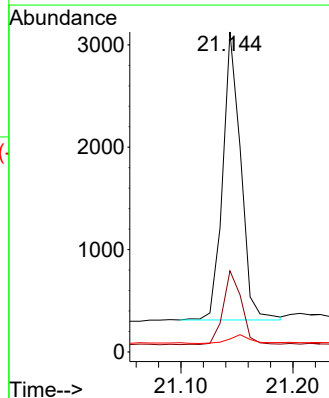
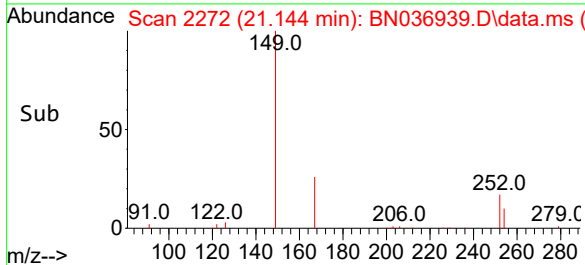
Tgt Ion:149 Resp: 3141

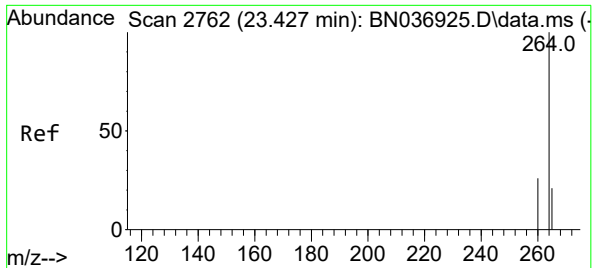
Ion Ratio Lower Upper

149 100

167 26.2 21.0 31.6

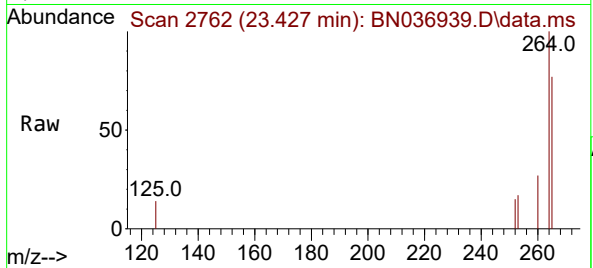
279 3.4 2.7 4.1





#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.427 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: BN036939.D  
Acq: 29 Apr 2025 14:54

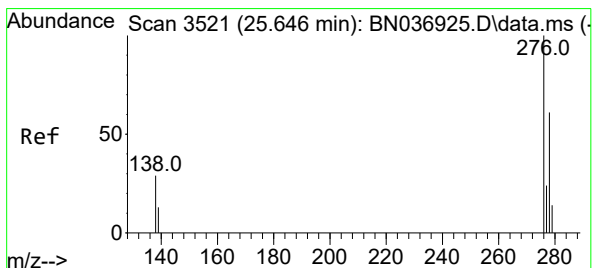
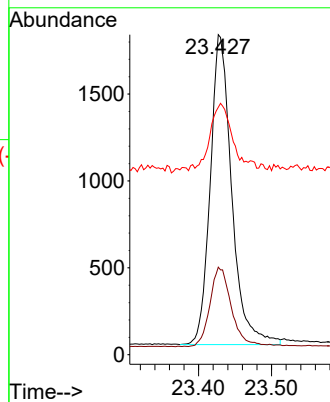
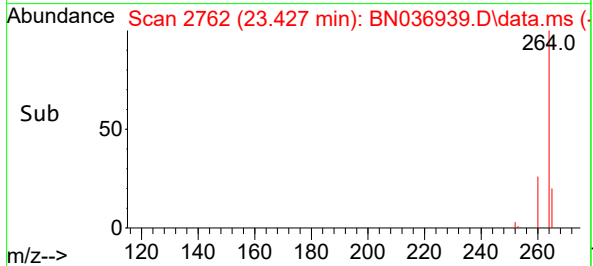
Instrument :  
BNA\_N  
ClientSampleId :  
PB167728BS



Tgt Ion:264 Resp: 364  
Ion Ratio Lower Upper  
264 100  
260 27.4 22.2 33.2  
265 77.3 65.8 98.6

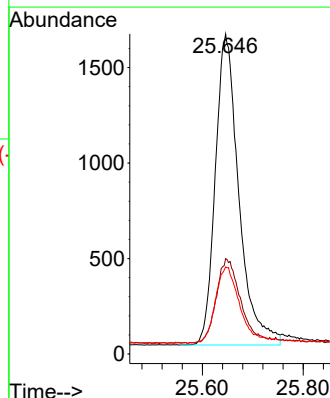
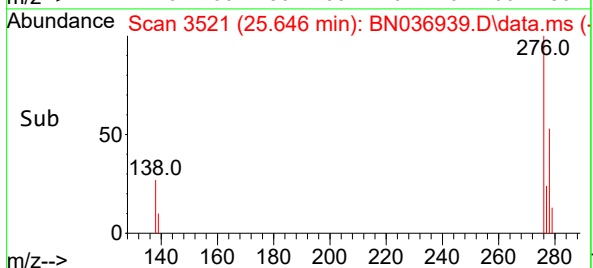
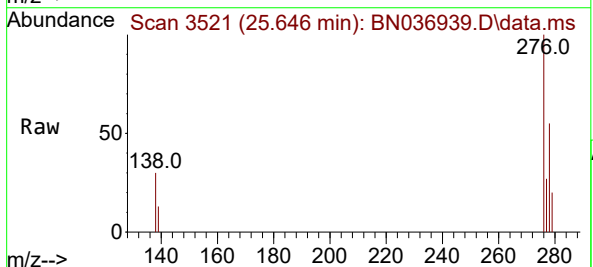
Manual Integrations  
APPROVED

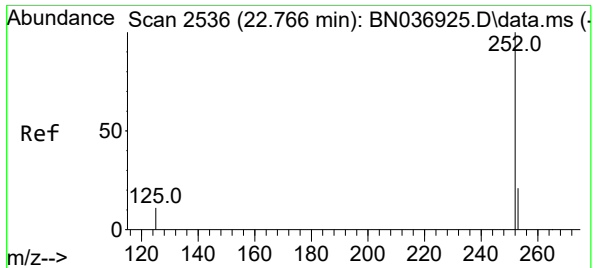
Reviewed By :Rahul Chavli 04/30/2025  
Supervised By :Jagrut Upadhyay 04/30/2025



#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.354 ng  
RT: 25.646 min Scan# 3521  
Delta R.T. -0.000 min  
Lab File: BN036939.D  
Acq: 29 Apr 2025 14:54

Tgt Ion:276 Resp: 5275  
Ion Ratio Lower Upper  
276 100  
138 27.6 23.0 34.6  
277 25.5 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 0.356 ng

RT: 22.769 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN036939.D

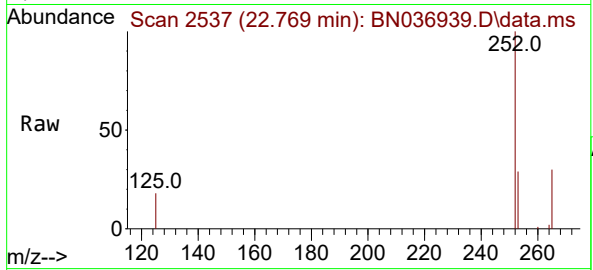
Acq: 29 Apr 2025 14:54

Instrument :

BNA\_N

ClientSampleId :

PB167728BS



Tgt Ion:252 Resp: 546

Ion Ratio Lower Upper

252 100

253 29.0 22.1 33.1

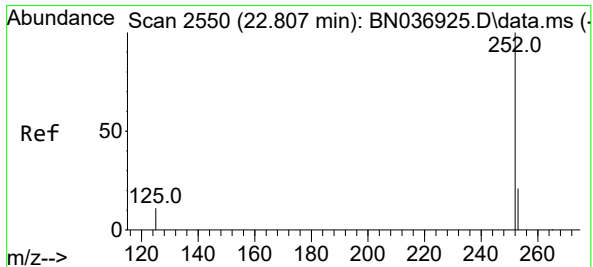
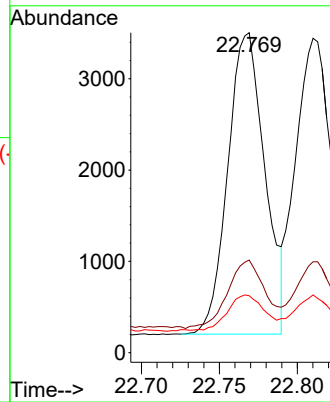
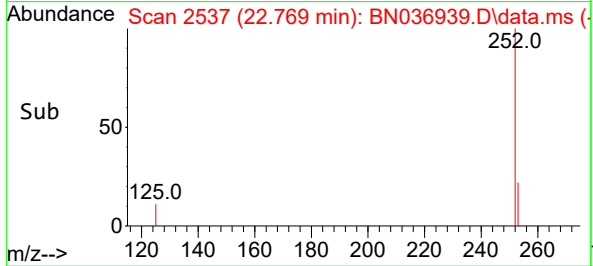
125 17.8 14.2 21.2

Manual Integrations

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Reviewed By :Rahul Chavli 04/30/2025

Supervised By :Jagrut Upadhyay 04/30/2025



#38

Benzo(k)fluoranthene

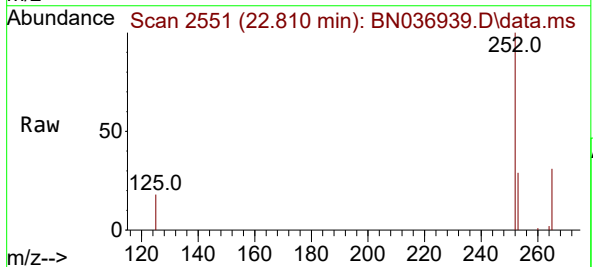
Concen: 0.373 ng

RT: 22.810 min Scan# 2551

Delta R.T. 0.003 min

Lab File: BN036939.D

Acq: 29 Apr 2025 14:54



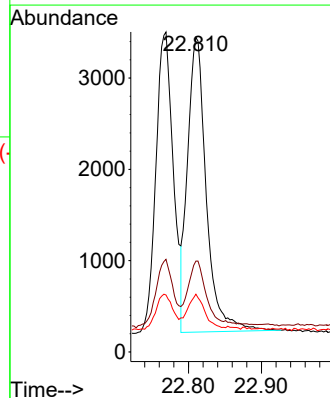
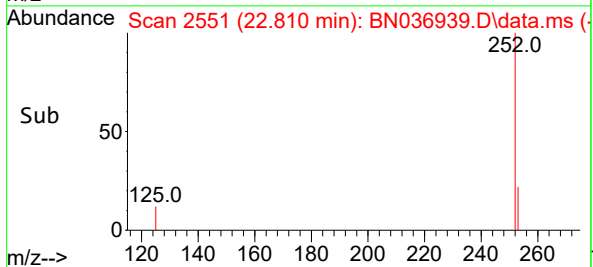
Tgt Ion:252 Resp: 5750

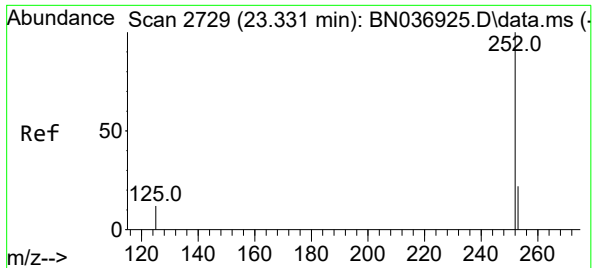
Ion Ratio Lower Upper

252 100

253 28.9 22.8 34.2

125 18.4 14.2 21.2





#39

Benzo(a)pyrene

Concen: 0.380 ng

RT: 23.333 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN036939.D

Acq: 29 Apr 2025 14:54

Instrument :

BNA\_N

ClientSampleId :

PB167728BS

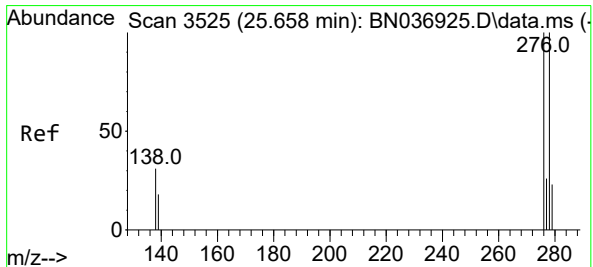
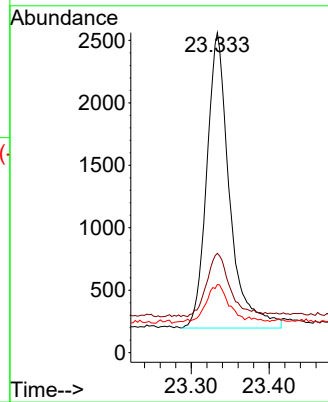
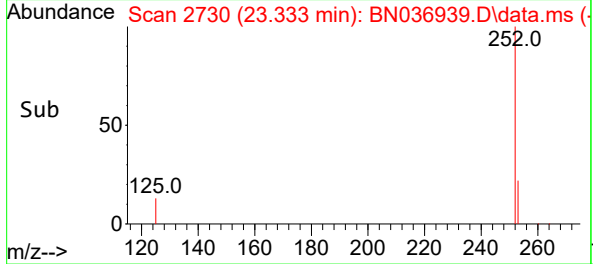
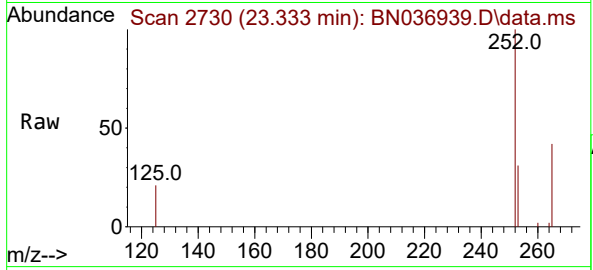
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 252   | Resp: | 4780 |
| Ion Ratio | Lower | Upper |      |
| 252       | 100   |       |      |
| 253       | 31.1  | 25.9  | 38.9 |
| 125       | 21.3  | 17.4  | 26.0 |

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 04/30/2025

Supervised By :Jagrut Upadhyay 04/30/2025



#40

Dibenzo(a,h)anthracene

Concen: 0.348 ng

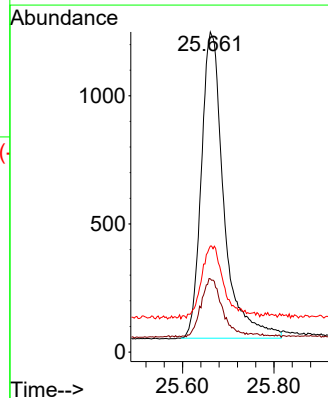
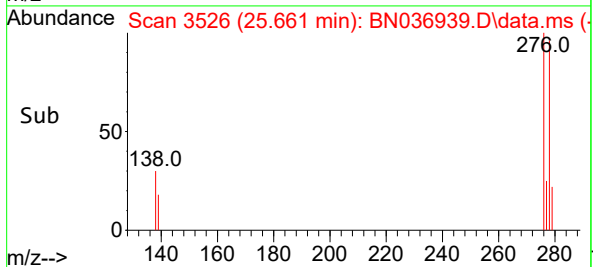
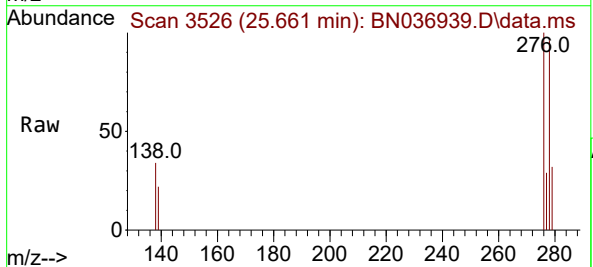
RT: 25.661 min Scan# 3526

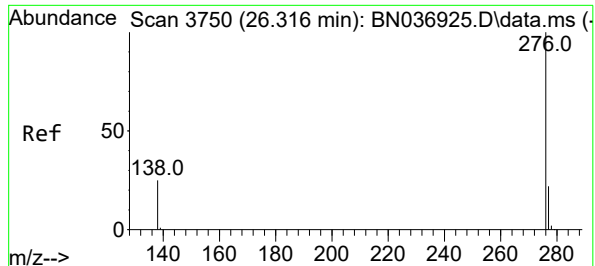
Delta R.T. 0.003 min

Lab File: BN036939.D

Acq: 29 Apr 2025 14:54

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 278   | Resp: | 4085 |
| Ion Ratio | Lower | Upper |      |
| 278       | 100   |       |      |
| 139       | 22.9  | 17.4  | 26.2 |
| 279       | 33.1  | 24.9  | 37.3 |





#41

Benzo(g,h,i)perylene

Concen: 0.326 ng

RT: 26.324 min Scan# 31

Delta R.T. 0.009 min

Lab File: BN036939.D

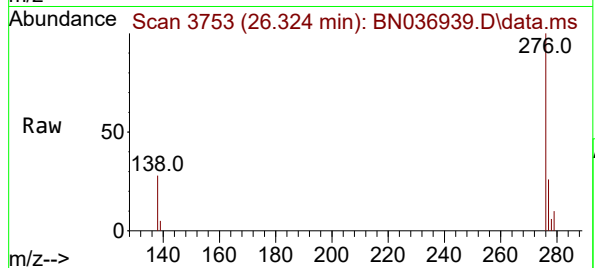
Acq: 29 Apr 2025 14:54

Instrument :

BNA\_N

ClientSampleId :

PB167728BS



Tgt Ion:276 Resp: 424

Ion Ratio Lower Upper

276 100

277 26.0 20.2 30.2

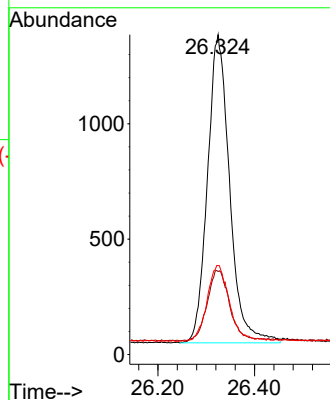
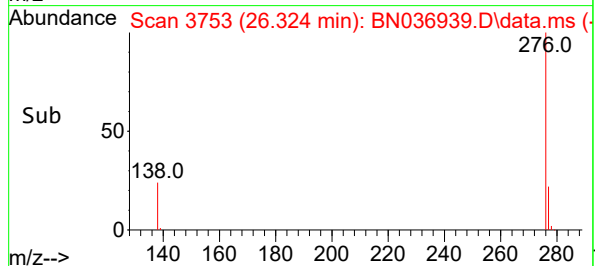
138 27.8 21.9 32.9

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 04/30/2025

Supervised By :Jagrut Upadhyay 04/30/2025



## Manual Integration Report

Sequence:

BN042825

Instrument

BNA\_n

| Sample ID  | File ID    | Parameter   | Review By | Review On            | Supervised By | Supervised On         | Reason                      |
|------------|------------|-------------|-----------|----------------------|---------------|-----------------------|-----------------------------|
| SSTDICC0.1 | BN036923.D | 1,4-Dioxane | Rahul     | 4/29/2025 8:53:49 AM | Jagrut        | 4/29/2025 11:57:36 AM | Peak Integrated by Software |
| SSTDICC0.2 | BN036924.D | 1,4-Dioxane | Rahul     | 4/29/2025 8:53:52 AM | Jagrut        | 4/29/2025 11:57:39 AM | Peak Integrated by Software |



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

## Manual Integration Report

|           |          |            |       |
|-----------|----------|------------|-------|
| Sequence: | BN042925 | Instrument | BNA_n |
|-----------|----------|------------|-------|

| Sample ID  | File ID    | Parameter               | Review By | Review On                | Supervised By | Supervised On            | Reason                      |
|------------|------------|-------------------------|-----------|--------------------------|---------------|--------------------------|-----------------------------|
| PB167728BS | BN036939.D | 2-Methylnaphthalene-d10 | Rahul     | 4/30/2025<br>11:37:30 AM | Jagrut        | 4/30/2025<br>12:40:19 PM | Peak Integrated by Software |

Instrument ID: **BNA\_N**

**Daily Analysis Runlog For Sequence/QC Batch ID # BN042825**

|                          |                                                  |                   |                                               |
|--------------------------|--------------------------------------------------|-------------------|-----------------------------------------------|
| Review By                | Rahul                                            | Review On         | 4/29/2025 8:54:47 AM                          |
| Supervise By             | Jagrut                                           | Supervise On      | 4/29/2025 11:57:54 AM                         |
| SubDirectory             | BN042825                                         | HP Acquire Method | BNA_N, 8270_SiM HP Processing Method BN042825 |
| <b>STD. NAME</b>         | <b>STD REF.#</b>                                 |                   |                                               |
| Tune/Reschk              | SP6757                                           |                   |                                               |
| Initial Calibration Stds | SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731 |                   |                                               |
| CCC                      | SP6735                                           |                   |                                               |
| 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      | BN036922.D     | 28 Apr 2025 10:56 | RC/JU    | Ok     |
| 2   | SSTDIC0.1  | BN036923.D     | 28 Apr 2025 11:35 | RC/JU    | Ok,M   |
| 3   | SSTDIC0.2  | BN036924.D     | 28 Apr 2025 12:11 | RC/JU    | Ok,M   |
| 4   | SSTDIC0.4  | BN036925.D     | 28 Apr 2025 12:47 | RC/JU    | Ok     |
| 5   | SSTDIC0.8  | BN036926.D     | 28 Apr 2025 13:24 | RC/JU    | Ok     |
| 6   | SSTDIC1.6  | BN036927.D     | 28 Apr 2025 14:00 | RC/JU    | Ok     |
| 7   | SSTDIC3.2  | BN036928.D     | 28 Apr 2025 14:36 | RC/JU    | Ok     |
| 8   | SSTDIC5.0  | BN036929.D     | 28 Apr 2025 15:12 | RC/JU    | Ok     |
| 9   | SSTDICV0.4 | BN036930.D     | 28 Apr 2025 15:51 | RC/JU    | Ok     |
| 10  | PB167430BL | BN036931.D     | 28 Apr 2025 17:39 | RC/JU    | Not Ok |

M : Manual Integration

Instrument ID: **BNA\_N**

**Daily Analysis Runlog For Sequence/QC Batch ID # BN042925**

|                          |                                                  |                   |                                               |
|--------------------------|--------------------------------------------------|-------------------|-----------------------------------------------|
| Review By                | Rahul                                            | Review On         | 4/30/2025 11:39:11 AM                         |
| Supervise By             | Jagrut                                           | Supervise On      | 5/7/2025 1:59:53 PM                           |
| SubDirectory             | BN042925                                         | HP Acquire Method | BNA_N, 8270_SiM HP Processing Method BN042825 |
| <b>STD. NAME</b>         | <b>STD REF.#</b>                                 |                   |                                               |
| Tune/Reschk              | SP6757                                           |                   |                                               |
| Initial Calibration Stds | SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731 |                   |                                               |
| CCC                      | SP6735                                           |                   |                                               |
| 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       | BN036932.D     | 29 Apr 2025 08:38 | RC/JU    | Ok       |
| 2   | SSTDCCC0.4  | BN036933.D     | 29 Apr 2025 09:17 | RC/JU    | Ok       |
| 3   | PB167728BL  | BN036934.D     | 29 Apr 2025 09:53 | RC/JU    | Ok       |
| 4   | Q1502-21DL  | BN036935.D     | 29 Apr 2025 10:46 | RC/JU    | Ok       |
| 5   | Q1870-01    | BN036936.D     | 29 Apr 2025 13:05 | RC/JU    | Dilution |
| 6   | Q1870-01DL  | BN036937.D     | 29 Apr 2025 13:41 | RC/JU    | Dilution |
| 7   | Q1870-01DL2 | BN036938.D     | 29 Apr 2025 14:17 | RC/JU    | Ok       |
| 8   | PB167728BS  | BN036939.D     | 29 Apr 2025 14:54 | RC/JU    | Ok,M     |

M : Manual Integration

Instrument ID: BNA\_N

**Daily Analysis Runlog For Sequence/QC Batch ID # BN042825**

|              |          |                   |                                           |
|--------------|----------|-------------------|-------------------------------------------|
| Review By    | Rahul    | Review On         | 4/29/2025 8:54:47 AM                      |
| Supervise By | Jagrut   | Supervise On      | 4/29/2025 11:57:54 AM                     |
| SubDirectory | BN042825 | HP Acquire Method | BNA_N, 8270_HP Processing Method BN042825 |

| STD. NAME                                                                                          | STD REF.#                                                  |
|----------------------------------------------------------------------------------------------------|------------------------------------------------------------|
| Tune/Reschk<br>Initial Calibration Stds                                                            | SP6757<br>SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731 |
| CCC<br>Internal Standard/PEM<br>ICV/I.BLK<br>Surrogate Standard<br>MS/MSD Standard<br>LCS Standard | SP6735<br>SP6740,1ul/100ul sample<br>SP6768                |

| Sr# | SampleID    | ClientID    | Data File Name | Date-Time         | Comment                                                  | Operator | Status |
|-----|-------------|-------------|----------------|-------------------|----------------------------------------------------------|----------|--------|
| 1   | DFTPP       | DFTPP       | BN036922.D     | 28 Apr 2025 10:56 |                                                          | RC/JU    | Ok     |
| 2   | SSTDICC0.1  | SSTDICC0.1  | BN036923.D     | 28 Apr 2025 11:35 | Compound#20 removed from 0.1 ppm                         | RC/JU    | Ok,M   |
| 3   | SSTDICC0.2  | SSTDICC0.2  | BN036924.D     | 28 Apr 2025 12:11 |                                                          | RC/JU    | Ok,M   |
| 4   | SSTDICCC0.4 | SSTDICCC0.4 | BN036925.D     | 28 Apr 2025 12:47 |                                                          | RC/JU    | Ok     |
| 5   | SSTDICC0.8  | SSTDICC0.8  | BN036926.D     | 28 Apr 2025 13:24 |                                                          | RC/JU    | Ok     |
| 6   | SSTDICC1.6  | SSTDICC1.6  | BN036927.D     | 28 Apr 2025 14:00 |                                                          | RC/JU    | Ok     |
| 7   | SSTDICC3.2  | SSTDICC3.2  | BN036928.D     | 28 Apr 2025 14:36 |                                                          | RC/JU    | Ok     |
| 8   | SSTDICC5.0  | SSTDICC5.0  | BN036929.D     | 28 Apr 2025 15:12 |                                                          | RC/JU    | Ok     |
| 9   | SSTDICV0.4  | ICVBN042825 | BN036930.D     | 28 Apr 2025 15:51 |                                                          | RC/JU    | Ok     |
| 10  | PB167430BL  | PB167430BL  | BN036931.D     | 28 Apr 2025 17:39 | Internal Standard Fail, Analyzed for contamination check | RC/JU    | Not Ok |

M : Manual Integration

Instrument ID: BNA\_N

**Daily Analysis Runlog For Sequence/QC Batch ID # BN042925**

|              |          |                   |                                           |
|--------------|----------|-------------------|-------------------------------------------|
| Review By    | Rahul    | Review On         | 4/30/2025 11:39:11 AM                     |
| Supervise By | Jagrut   | Supervise On      | 5/7/2025 1:59:53 PM                       |
| SubDirectory | BN042925 | HP Acquire Method | BNA_N, 8270_HP Processing Method BN042825 |

| STD. NAME                | STD REF.#                                        |
|--------------------------|--------------------------------------------------|
| Tune/Reschk              | SP6757                                           |
| Initial Calibration Stds | SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731 |
| CCC                      | SP6735                                           |
| 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           | BN036932.D     | 29 Apr 2025 08:38 |                              | RC/JU    | Ok       |
| 2   | SSTDCCC0.4  | SSTDCCC0.4      | BN036933.D     | 29 Apr 2025 09:17 |                              | RC/JU    | Ok       |
| 3   | PB167728BL  | PB167728BL      | BN036934.D     | 29 Apr 2025 09:53 |                              | RC/JU    | Ok       |
| 4   | Q1502-21DL  | RR-PAH-WPDL     | BN036935.D     | 29 Apr 2025 10:46 |                              | RC/JU    | Ok       |
| 5   | Q1870-01    | 38072-010925    | BN036936.D     | 29 Apr 2025 13:05 | PT Sample, Need 50X Dilution | RC/JU    | Dilution |
| 6   | Q1870-01DL  | 38072-010925DL  | BN036937.D     | 29 Apr 2025 13:41 | Need 500X dilution           | RC/JU    | Dilution |
| 7   | Q1870-01DL2 | 38072-010925DL2 | BN036938.D     | 29 Apr 2025 14:17 |                              | RC/JU    | Ok       |
| 8   | PB167728BS  | PB167728BS      | BN036939.D     | 29 Apr 2025 14:54 |                              | RC/JU    | Ok,M     |

M : Manual Integration

SOP ID: M3510C,3580A-Extraction SVOC-20

Clean Up SOP #: N/A

Matrix : Water

Weigh By: N/A

Balance check: N/A

Balance ID: N/A

pH Strip Lot#: E3880

Extraction By: RS

Filter By: RJ

pH Meter ID: N/A

Hood ID: 4,6,7

Extraction Start Date : 04/24/2025

Extraction Start Time : 12:05

Extraction End Date : 04/24/2025

Extraction End Time : 17:00

Concentration By: EH

Supervisor By : RUPESH

Extraction Method: ☒ Separatory Funnel ☐ Continuous Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☐ Soxhlet

| Standard Name | MLS USED | Concentration ug/mL | STD REF. # FROM LOG |
|---------------|----------|---------------------|---------------------|
| Spike Sol 1   | 1.0ML    | 0.4 PPM             | SP6739              |
| 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            | E3926      |
| Baked Na2SO4       | N/A            | EP2604     |
| 10N NaoH           | N/A            | EP2559     |
| H2SO4 1:1          | N/A            | EP2565     |
| 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&lt;2 with 1:1 H2SO4 &amp;&gt;11 with 10 N NaOH.

KD Bath ID: WATER BATH-1

KD Bath Temperature: 60 °C

Envap ID: NEVAP-02

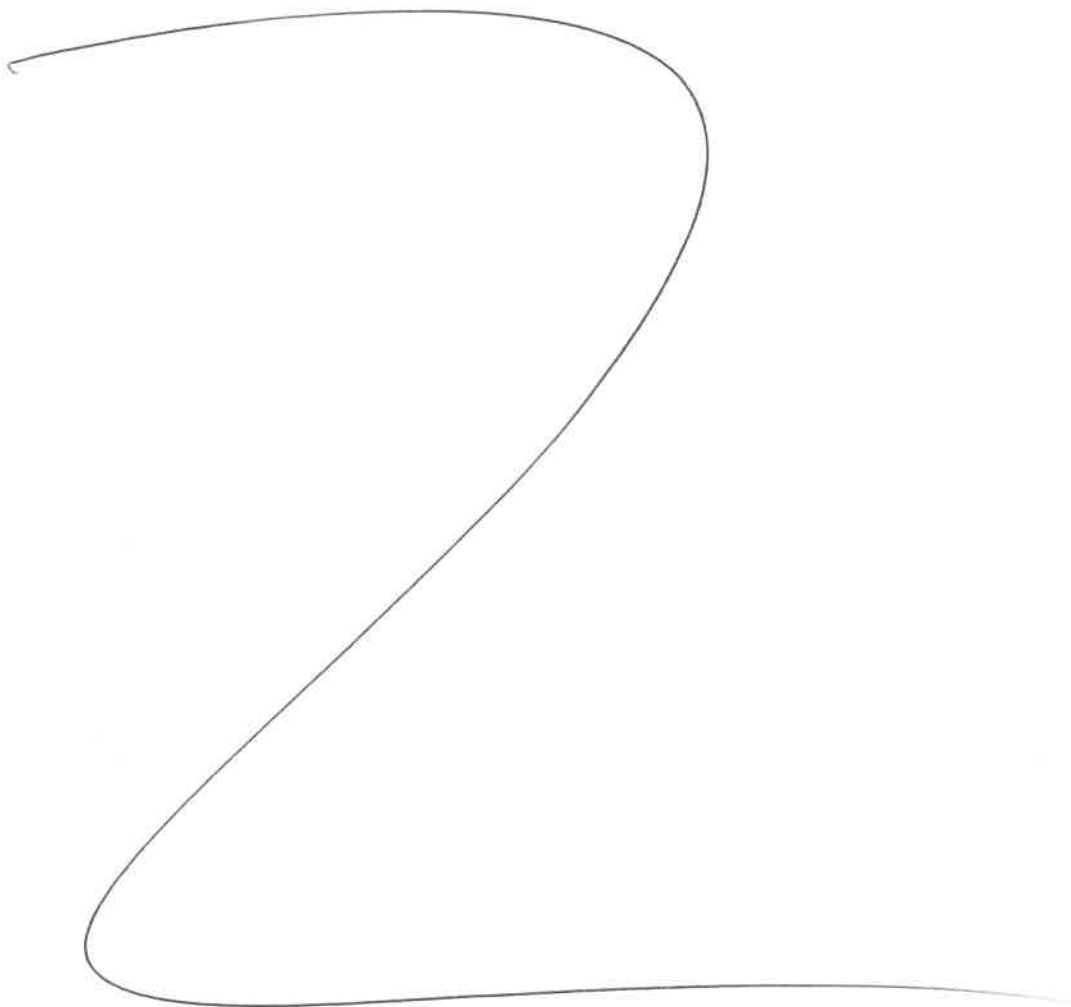
Envap Temperature: 40 °C

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|-------------|-----------------------------------------|----------------------|
| 4/24/25     | RS (Ext Lab)                            | JH / SVOC            |
| 17:05       | Preparation Group                       | Analysis Group       |

Analytical Method: M3510C,3580A-Extraction SVOC-20

Concentration Date: 04/24/2025

| Sample ID  | Client Sample ID | Test             | g / <u>mL</u> | PH | Surr/Spike By: |            | Final Vol.<br>(mL) | JarID | Comments | Prep<br>Pos |
|------------|------------------|------------------|---------------|----|----------------|------------|--------------------|-------|----------|-------------|
|            |                  |                  |               |    | AddedBy        | VerifiedBy |                    |       |          |             |
| PB167728BL | SBLK728          | SVOCMS<br>Group5 | 1000          | 6  | RUPESH         | ritesh     | 1                  |       |          | SEP-1       |
| PB167728BS | SLCS728          | SVOCMS<br>Group5 | 1000          | 6  | RUPESH         | ritesh     | 1                  |       |          | 2           |
| Q1870-01   | 38072-010925     | SVOCMS<br>Group5 | 1000          | 6  | RUPESH         | ritesh     | 1                  |       |          | 3           |



RS  
4/24

167708  
12:05 Mo.

# WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1870

WorkList ID : 189128

Department : Extraction

Date : 04-24-2025 12:02:25

| Sample   | Customer Sample | Matrix | Test          | Preservative | Customer | Raw Sample<br>Storage<br>Location | Collect Date | Method        |
|----------|-----------------|--------|---------------|--------------|----------|-----------------------------------|--------------|---------------|
| Q1870-01 | 38072-010925    | Water  | SVOCMS Group5 | Cool 4 deg C | ALLI03   | QA Of                             | 04/21/2025   | 8270-Modified |
| Q1870-03 | 38073-100124    | Water  | SVOCMS Group2 | Cool 4 deg C | ALLI03   | QA Of                             | 04/22/2025   | 8270E         |

Date/Time 4/24/25 12:03

Raw Sample Received by: RS (Ext Lab)

Raw Sample Relinquished by: SJ (QA0)

Date/Time NA

Raw Sample Received by: N/A

Raw Sample Relinquished by: N/A

## Prep Standard - Chemical Standard Summary

**Order ID :** Q1870

**Test :** SVOCMS Group5

**Prepbatch ID :** PB167728,

**Sequence ID/Qc Batch ID:** BN042925,

**Standard ID :**

EP2559,EP2565,EP2604,SP6682,SP6730,SP6731,SP6732,SP6733,SP6734,SP6735,SP6736,SP6738,SP6739,SP6740,SP6757,SP6758,SP6767,SP6768,

**Chemical ID :**

1ul/100ul

sample,E3551,E3657,E3828,E3873,E3874,E3904,E3915,E3926,M5173,S10104,S 11495,S11650,S11785,S11788,S11832,S12114,S12195,S12216,S12270,S12328,S12478,S12486,S12525,S12533,S12577,S12651,S12791,S12966,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="#">EP2559</a> | 11/14/2024       | 05/14/2025             | Rajesh Parikh      | Extraction_SC<br>ALE_2<br>(EX-SC-2) | None             | RUPESHKUMAR<br>SHAH<br>11/14/2024 |
| <b>FROM</b> 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="#">EP2565</a> | 11/20/2024       | 05/20/2025             | Rajesh Parikh      | None           | None             | RUPESHKUMAR<br>SHAH<br>11/20/2024 |
| <b><u>FROM</u></b> 1000.00000ml of M5173 + 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="#">EP2604</a> | 04/16/2025       | 07/01/2025             | RUPESHKUMAR SHAH   | Extraction_SC<br>ALE_2<br>(EX-SC-2) | None             | Riteshkumar Patel<br><br>04/16/2025 |
| <u>FROM</u>      | 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="#">SP6682</a> | 11/15/2024       | 05/09/2025             | Jagrut Upadhyay    | None           | None             | Yogesh Patel<br>12/03/2024 |
| <b><u>FROM</u></b> 0.10000ml of S12328 + 4.90000ml of E3828 = Final Quantity: 5.000 ml |                           |                        |                  |                        |                    |                |                  |                            |

## SVOC STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>                            | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|----------------------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3339             | 8270 sim calibration stock 10ppm (CPI) | <a href="#">SP6730</a> | 02/04/2025       | 05/12/2025             | Jagrut Upadhyay    | None           | None             | Shreena Patel        |
|                  |                                        |                        |                  |                        |                    |                |                  | 02/07/2025           |

**FROM** 0.03350ml of S10104 + 0.05000ml of S11495 + 0.12500ml of S11832 + 0.12500ml of S12114 + 0.25000ml of S12270 + 0.25000ml of S12791 + 24.16650ml of E3874 = Final Quantity: 25.000 ml

| <u>Recipe ID</u> | <u>NAME</u>                            | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|----------------------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3361             | 8270-SIM MDL-5PPM CALIBRATION SOLUTION | <a href="#">SP6731</a> | 02/04/2025       | 05/09/2025             | Jagrut Upadhyay    | None           | None             | Shreena Patel        |
|                  |                                        |                        |                  |                        |                    |                |                  | 02/07/2025           |

**FROM** 0.50000ml of E3874 + 0.01000ml of SP6682 + 0.50000ml of SP6730 = Final Quantity: 1.010 ml

## SVOC STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>                              | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|------------------------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3341             | 8270-SIM MDL-3.2PPM CALIBRATION SOLUTION | <a href="#">SP6732</a> | 02/04/2025       | 05/09/2025             | Jagrut Upadhyay    | None           | None             | Shreena Patel        |
|                  |                                          |                        |                  |                        |                    |                |                  | 02/07/2025           |

**FROM** 0.68000ml of E3874 + 0.01000ml of SP6682 + 0.32000ml of SP6730 = Final Quantity: 1.010 ml

| <u>Recipe ID</u> | <u>NAME</u>                              | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|------------------------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3344             | 8270-SIM MDL-1.6PPM CALIBRATION SOLUTION | <a href="#">SP6733</a> | 02/04/2025       | 05/09/2025             | Jagrut Upadhyay    | None           | None             | Shreena Patel        |
|                  |                                          |                        |                  |                        |                    |                |                  | 02/07/2025           |

**FROM** 0.84000ml of E3874 + 0.01000ml of SP6682 + 0.16000ml of SP6730 = Final Quantity: 1.010 ml

## SVOC STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>                              | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|------------------------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3342             | 8270-SIM MDL-0.8PPM CALIBRATION SOLUTION | <a href="#">SP6734</a> | 02/04/2025       | 05/09/2025             | Jagrut Upadhyay    | None           | None             | Shreena Patel        |
|                  |                                          |                        |                  |                        |                    |                |                  | 02/07/2025           |

**FROM** 0.92000ml of E3874 + 0.01000ml of SP6682 + 0.08000ml of SP6730 = Final Quantity: 1.010 ml

| <u>Recipe ID</u> | <u>NAME</u>                              | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|------------------------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3343             | 8270-SIM MDL-0.4PPM CALIBRATION SOLUTION | <a href="#">SP6735</a> | 02/04/2025       | 05/09/2025             | Jagrut Upadhyay    | None           | None             | Shreena Patel        |
|                  |                                          |                        |                  |                        |                    |                |                  | 02/07/2025           |

**FROM** 0.96000ml of E3874 + 0.01000ml of SP6682 + 0.04000ml of SP6730 = Final Quantity: 1.010 ml

## SVOC STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>                              | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|------------------------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3345             | 8270-SIM MDL-0.2PPM CALIBRATION SOLUTION | <a href="#">SP6736</a> | 02/04/2025       | 05/09/2025             | Jagrut Upadhyay    | None           | None             | Shreena Patel        |
|                  |                                          |                        |                  |                        |                    |                |                  | 02/07/2025           |

**FROM** 0.50000ml of E3874 + 0.01000ml of SP6682 + 0.50000ml of SP6735 = Final Quantity: 1.010 ml

| <u>Recipe ID</u> | <u>NAME</u>                              | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|------------------------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3346             | 8270-SIM MDL-0.1PPM CALIBRATION SOLUTION | <a href="#">SP6738</a> | 02/04/2025       | 05/09/2025             | Jagrut Upadhyay    | None           | None             | Shreena Patel        |
|                  |                                          |                        |                  |                        |                    |                |                  | 02/07/2025           |

**FROM** 0.75000ml of E3874 + 0.01000ml of SP6682 + 0.25000ml of SP6735 = Final Quantity: 1.010 ml

## SVOC STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>            | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3492             | 8270-SIM-Spike 0.4 PPM | <a href="#">SP6739</a> | 02/05/2025       | 07/29/2025             | Jagrut Upadhyay    | None           | None             | Shreena Patel        |
|                  |                        |                        |                  |                        |                    |                |                  | 02/07/2025           |

**FROM** 0.00080ml of S11650 + 0.01000ml of S11785 + 0.02000ml of S12478 + 0.02000ml of S12525 + 0.02000ml of S12966 + 49.92920ml of E3873 = Final Quantity: 50.000 ml

| <u>Recipe ID</u> | <u>NAME</u>               | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|---------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 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           |

**FROM** 0.10000ml of S12651 + 4.90000ml of E3874 = Final Quantity: 5.000 ml

## SVOC STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>          | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|----------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3895             | 50 ug/ml DFTPP 8270E | <a href="#">SP6757</a> | 03/31/2025       | 09/30/2025             | Rahul Chavli       | None           | None             | Jagrut Upadhyay      |
|                  |                      |                        |                  |                        |                    |                |                  | 04/01/2025           |

**FROM** 1.00000ml of S12577 + 19.00000ml of E3904 = Final Quantity: 20.000 ml

| <u>Recipe ID</u> | <u>NAME</u>                | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|----------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3491             | 8270-SIM-Surrogate 0.4 PPM | <a href="#">SP6758</a> | 04/03/2025       | 07/24/2025             | Rahul Chavli       | None           | None             | mohammad ahmed       |
|                  |                            |                        |                  |                        |                    |                |                  | 04/07/2025           |

**FROM** 0.00800ml of S12195 + 0.01600ml of S12216 + 0.04000ml of S11832 + 199.93600ml of E3915 = Final Quantity: 200.000 ml



| <u>Recipe ID</u> | <u>NAME</u>                                                                                                                                                                                                            | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u>            |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|---------------------------------|
| 3355             | 8270-SIM MDL-3.2PPM<br>CALIBRATION STOCK SOL- 2ND                                                                                                                                                                      | <a href="#">SP6767</a> | 04/10/2025       | 07/24/2025             | Jagrut Upadhyay    | None           | None             | Sohil Jodhani<br><br>04/16/2025 |
| <u>FROM</u>      | SOURCE<br>0.00630ml of S12195 + 0.01280ml of S12216 + 0.03200ml of S11788 + 0.03200ml of S11832 + 0.06400ml of S12486 +<br>0.06400ml of S12533 + 0.06400ml of S12974 + 19.72490ml of E3926 = Final Quantity: 20.000 ml |                        |                  |                        |                    |                |                  |                                 |

| <u>Recipe ID</u>                                                                                                       | <u>NAME</u>                                    | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u>            |
|------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|---------------------------------|
| 3356                                                                                                                   | 8270-SIM MDL-0.4PPM<br>CALIBRATION SOL ICV-2ND | <a href="#">SP6768</a> | 04/10/2025       | 07/24/2025             | Jagrut Upadhyay    | None           | None             | Sohil Jodhani<br><br>04/16/2025 |
| <b>SOURCE</b><br><b>FROM</b> 0.87500ml of E3926 + 0.01000ml of SP6740 + 0.12500ml of SP6767 = 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) | 24G0862003 | 05/09/2025      | 11/09/2024 / Rajesh     | 11/04/2024 / Rajesh         | E3828          |

| 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 | 07/29/2025      | 01/29/2025 / Rajesh     | 01/29/2025 / Rajesh         | E3873          |

| 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-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L) | 24K1762005 | 01/07/2026      | 03/13/2025 / RUPESH     | 12/27/2024 / RUPESH         | E3904          |

## CHEMICAL RECEIPT LOG BOOK

| 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          |

| 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-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L) | 0000281827 | 06/02/2025      | 06/01/2022 / william    | 04/05/2022 / william        | M5173          |

| 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 | 05/12/2025      | 11/12/2024 / Jagrut     | 08/11/2023 / Yogesh         | S11495         |

| 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 | 07/29/2025      | 01/29/2025 / anahy      | 11/21/2023 / Rahul          | S11785         |

| 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 | 05/12/2025      | 11/12/2024 / Jagrut     | 03/08/2024 / Rahul          | S12114         |

| 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         |

## CHEMICAL RECEIPT LOG BOOK

| Supplier          | ItemCode / ItemName                                                        | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-------------------|----------------------------------------------------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| CPI International | z-110381-01 / 8270<br>Calibration Solution, 76-1,<br>500 & 1,000 mg/L, 1ml | 520963 | 07/30/2025      | 01/30/2025 /<br>anahy   | 05/24/2024 /<br>Rahul       | S12270         |

| Supplier | ItemCode / ItemName                                                    | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31206 / SV Mix, CLP<br>method, Internal Std,<br>2000ug/mL, CH2Cl2, 1mL | A0206540 | 05/13/2025      | 11/13/2024 /<br>anahy   | 05/30/2024 /<br>Rahul       | S12328         |

| Supplier | ItemCode / ItemName                                                                                            | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|----------------------------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 555223 / Custom 8270<br>Plus Std #1 [2nd lot at \$100<br>per ampul if requested -<br>contact ARM with Request] | A0214021 | 07/29/2025      | 01/29/2025 /<br>anahy   | 07/23/2024 /<br>RAHUL       | S12478         |

[CS 4978-1]

| Supplier | ItemCode / ItemName                                                                                            | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|----------------------------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 555223 / Custom 8270<br>Plus Std #1 [2nd lot at \$100<br>per ampul if requested -<br>contact ARM with Request] | A0214021 | 09/10/2025      | 03/10/2025 /<br>anahy   | 07/23/2024 /<br>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<br>Plus Std #2 [2nd lot at \$85<br>per ampul if requested -<br>contact ARM with Request] | A0214017 | 07/29/2025      | 01/29/2025 /<br>anahy   | 07/23/2024 /<br>RAHUL       | S12525         |

[CS 4978-2]

| Supplier | ItemCode / ItemName                                                                                           | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|---------------------------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 555224 / Custom 8270<br>Plus Std #2 [2nd lot at \$85<br>per ampul if requested -<br>contact ARM with Request] | A0214017 | 09/10/2025      | 03/10/2025 /<br>anahy   | 07/23/2024 /<br>RAHUL       | S12533         |

[CS 4978-2]

## CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName                                                              | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|----------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31615 / SV Mixture, GC/MS Tuning Mixture, CH <sub>2</sub> Cl <sub>2</sub> , 1mL, | A0212955 | 06/30/2027      | 03/31/2025 / Rahul      | 08/01/2024 / Rahul          | S12577         |

| Supplier | ItemCode / ItemName                                                                        | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|--------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH <sub>2</sub> Cl <sub>2</sub> , 1mL | A0212266 | 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      | 01/30/2025 / anahy      | 05/24/2024 / Rahul          | S12791         |

| 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 | 07/29/2025      | 01/29/2025 / anahy      | 12/11/2024 / anahy          | S12966         |

| 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         |

| Supplier         | ItemCode / ItemName | Lot #               | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------|---------------------|---------------------|-----------------|-------------------------|-----------------------------|----------------|
| Seidler Chemical | DIW / DI Water      | Daily Lab-Certified | 07/03/2029      | 07/03/2024 / lwona      | 07/03/2024 / lwona          | W3112          |



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by TUV USA to ISO 9001:2015

Date Received: \_\_\_\_\_

## Certificate of Analysis

Rev 0

Page 1 of 1

**Catalog No.:** Lot No.: **Storage:** **Solvent:** **Exp. Date:** **Description:**  
Z-112090 440246  $\leq -10^{\circ}\text{C}$  Methylene Chloride 2/16/2026 CLP Acid Surrogate Solution, 7,500 mg/L, 1 mL  
-04

| Compound                      | CAS No.    | Purity (%) | Compound Lot No. | Concentration, mg/L |
|-------------------------------|------------|------------|------------------|---------------------|
| 2-chlorophenol-d <sub>4</sub> | 93951-73-6 | 99.3       | 248.12.7P        | 7487 $\pm$ 17.2     |
| 2-fluorophenol                | 367-12-4   | 99.8       | 10.7.3.3P        | 7513 $\pm$ 17.26    |
| phenol-d <sub>6</sub>         | 13127-88-3 | 99.9       | 949.120.8P       | 7481 $\pm$ 17.19    |
| 2,4,6-tribromophenol          | 118-79-6   | 99.8       | 12.1.6P          | 7469 $\pm$ 17.17    |

Received on

02/25/21

by  
CG

S9236  
to

S9240

\*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

*Erica Castiglione*

Certified By:

Erica Castiglione  
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.



**PRODUCTOS  
QUÍMICOS  
MONTERREY, S.A. DE C.V.**

MIRADOR 201, COL. MIRADOR  
MONTERREY, N.L. MEXICO  
CP 64070  
TEL +52 81 13 52 57 57  
www.pqm.com.mx

## CERTIFICATE OF ANALYSIS

|                        |                                   |               |                                 |
|------------------------|-----------------------------------|---------------|---------------------------------|
| PRODUCT :              | SODIUM SULFATE CRYSTALS ANHYDROUS |               |                                 |
| QUALITY :              | ACS (CODE RMB3375)                | FORMULA :     | Na <sub>2</sub> SO <sub>4</sub> |
| SPECIFICATION NUMBER : | 6399                              | RELEASE DATE: | ABR/21/2023                     |
| LOT NUMBER :           | 313201                            |               |                                 |

| TEST                                     | SPECIFICATIONS | LOT VALUES  |
|------------------------------------------|----------------|-------------|
| Assay (Na <sub>2</sub> SO <sub>4</sub> ) | Min. 99.0%     | 99.7 %      |
| pH of a 5% solution at 25°C              | 5.2 - 9.2      | 6.1         |
| Insoluble matter                         | Max. 0.01%     | 0.005 %     |
| Loss on ignition                         | Max. 0.5%      | 0.1 %       |
| Chloride (Cl)                            | Max. 0.001%    | <0.001 %    |
| Nitrogen compounds (as N)                | Max. 5 ppm     | <5 ppm      |
| Phosphate (PO <sub>4</sub> )             | Max. 0.001%    | <0.001 %    |
| Heavy metals (as Pb)                     | Max. 5 ppm     | <5 ppm      |
| Iron (Fe)                                | Max. 0.001%    | <0.001 %    |
| Calcium (Ca)                             | Max. 0.01%     | 0.002 %     |
| Magnesium (Mg)                           | Max. 0.005%    | 0.001 %     |
| Potassium (K)                            | Max. 0.008%    | 0.003 %     |
| Extraction-concentration suitability     | Passes test    | Passes test |
| Appearance                               | Passes test    | Passes test |
| Identification                           | Passes test    | Passes test |
| Solubility and foreign matter            | Passes test    | Passes test |
| Retained on US Standard No. 10 sieve     | Max. 1%        | 0.1 %       |
| Retained on US Standard No. 60 sieve     | Min. 94%       | 97.3 %      |
| Through US Standard No. 60 sieve         | Max. 5%        | 2.5 %       |
| Through US Standard No. 100 sieve        | Max. 10%       | 0.1 %       |

### COMMENTS

QC: PhC Irma Belmares

If you need further details, please call our factory or contact our local distributor.

Recd. by R3 on 7/24/23 E 3551

RC-02-01, Ed. 3



# Certificate of Analysis

## Sodium Hydroxide (Pellets)

**Material:** 0583  
**Grade:** ACS GRADE  
**Batch Number:** 23B1556310

Chemical Formula: NaOH  
Molecular Weight: 40  
CAS #: 1310-73-2  
Appearance:

Manufacture Date: 12/14/2022  
Expiration Date: 12/31/2025

Storage: Room Temperature

Pellets

| TEST               | SPECIFICATION          | ANALYSIS            | DISPOSITION |
|--------------------|------------------------|---------------------|-------------|
| Calcium            | $\leq 0.005 \%$        | $< 0.005 \%$        | PASS        |
| Chloride           | $\leq 0.005 \%$        | 0.002 %             | PASS        |
| Heavy Metals       | $\leq 0.002 \%$        | $< 0.002 \%$        | PASS        |
| Iron               | $\leq 0.001 \%$        | $< 0.001 \%$        | PASS        |
| Magnesium          | $\leq 0.002 \%$        | $< 0.002 \%$        | PASS        |
| Mercury            | $\leq 0.1 \text{ ppm}$ | $< 0.1 \text{ ppm}$ | PASS        |
| Nickel             | $\leq 0.001 \%$        | $< 0.001 \%$        | PASS        |
| Nitrogen Compounds | $\leq 0.001 \%$        | $< 0.001 \%$        | PASS        |
| Phosphate          | $\leq 0.001 \%$        | $< 0.001 \%$        | PASS        |
| Potassium          | $\leq 0.02 \%$         | $< 0.02 \%$         | PASS        |
| Purity             | $\geq 97.0 \%$         | 99.2 %              | PASS        |
| Sodium Carbonate   | $\leq 1.0 \%$          | 0.5 %               | PASS        |
| Sulfate            | $\leq 0.003 \%$        | $< 0.003 \%$        | PASS        |

Internal ID #: 710

### Signature

We certify that this batch conforms to the specifications listed.

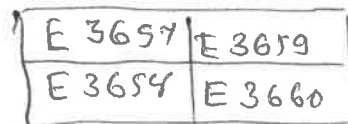
This document has been electronically produced and is valid without a signature.

Leona Edwardson, Quality Control Sr. Manager - Solon  
VWR Chemicals, LLC.  
28600 Fountain Parkway, Solon OH 44139 USA

### Additional Information

Analysis may have been rounded to significant digits in specification limits.

Product meets analytical specifications of the grades listed.



Methylene Chloride  
ULTRA RESI-ANALYZED  
For Organic Residue Analysis  
(dichloromethane)

avantor™



Material No.: 9266-A4

Batch No.: 24J0862003

Manufactured Date: 2024-09-12

Expiration Date: 2025-12-12

Revision No.: 0

## Certificate of Analysis

| Test                                                                                       | Specification  | Result     |
|--------------------------------------------------------------------------------------------|----------------|------------|
| FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)                       | $\leq 5$       | 2          |
| ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)                        | $\leq 10$      | 1          |
| Assay ( $\text{CH}_2\text{Cl}_2$ ) (by GC, exclusive of preservative, corrected for water) | $\geq 99.8\%$  | 100.0 %    |
| Color (APHA)                                                                               | $\leq 10$      | 5          |
| Residue after Evaporation                                                                  | $\leq 1.0$ ppm | 0.2 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 3828

Jamie Croak  
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC

Acetone

BAKER RESI-ANALYZED® Reagent

For Organic Residue Analysis

avantor™



Material No.: 9254-03

Batch No.: 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 & DC

Recd. by RP on 1/29/25

E 3873

Jamie Croak  
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC

Methylene Chloride  
ULTRA RESI-ANALYZED  
For Organic Residue Analysis  
(dichloromethane)



Material No.: 9266-A4  
Batch No.: 25A0262002  
Manufactured Date: 2024-11-21  
Expiration Date: 2026-02-20  
Revision No.: 0

## Certificate of Analysis

| Test                                                                                       | Specification  | Result     |
|--------------------------------------------------------------------------------------------|----------------|------------|
| FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)                       | $\leq 5$       | 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

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

Hydrochloric Acid, 36.5–38.0%  
BAKER INSTRA-ANALYZED® Reagent  
For Trace Metal Analysis



Material No.: 9530-33  
Batch No.: 0000281827  
Manufactured Date: 2021/03/30  
Retest Date: 2026/03/29  
Revision No: 1

## Certificate of Analysis

| Test                                      | Specification | Result  |
|-------------------------------------------|---------------|---------|
| ACS – Assay (as HCl) (by acid–base titrn) | 36.5 – 38.0 % | 37.6    |
| ACS – Color (APHA)                        | <= 10         | 5       |
| ACS – Residue after Ignition              | <= 3 ppm      | 1       |
| ACS – Specific Gravity at 60°/60°F        | 1.185 – 1.192 | 1.189   |
| ACS – Bromide (Br)                        | <= 0.005 %    | < 0.005 |
| ACS – Extractable Organic Substances      | <= 5 ppm      | < 1     |
| ACS – Free Chlorine (as Cl <sub>2</sub> ) | <= 0.5 ppm    | < 0.5   |
| Phosphate (PO <sub>4</sub> )              | <= 0.05 ppm   | < 0.03  |
| Sulfate (SO <sub>4</sub> )                | <= 0.5 ppm    | < 0.3   |
| Sulfite (SO <sub>3</sub> )                | <= 0.8 ppm    | 0.3     |
| Ammonium (NH <sub>4</sub> )               | <= 3 ppm      | < 1     |
| Trace Impurities – Arsenic (As)           | <= 0.010 ppm  | < 0.003 |
| Trace Impurities – Aluminum (Al)          | <= 10.0 ppb   | 0.5     |
| Arsenic and Antimony (as As)              | <= 5 ppb      | < 3     |
| Trace Impurities – Barium (Ba)            | <= 1.0 ppb    | < 0.2   |
| Trace Impurities – Beryllium (Be)         | <= 1.0 ppb    | < 0.2   |
| Trace Impurities – Bismuth (Bi)           | <= 10.0 ppb   | < 1.0   |
| Trace Impurities – Boron (B)              | <= 20.0 ppb   | < 5.0   |
| Trace Impurities – Cadmium (Cd)           | <= 1.0 ppb    | < 0.3   |
| Trace Impurities – Calcium (Ca)           | <= 50.0 ppb   | 15.0    |
| Trace Impurities – Chromium (Cr)          | <= 1.0 ppb    | < 0.4   |
| Trace Impurities – Cobalt (Co)            | <= 1.0 ppb    | < 0.3   |
| Trace Impurities – Copper (Cu)            | <= 1.0 ppb    | < 0.1   |
| Trace Impurities – Gallium (Ga)           | <= 1.0 ppb    | < 0.2   |

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

| Test                                                   | Specification | Result |
|--------------------------------------------------------|---------------|--------|
| Trace Impurities – Germanium (Ge)                      | <= 3.0 ppb    | < 2.0  |
| Trace Impurities – Gold (Au)                           | <= 4.0 ppb    | 3.0    |
| Heavy Metals (as Pb)                                   | <= 100 ppb    | < 50   |
| Trace Impurities – Iron (Fe)                           | <= 15.0 ppb   | 1.0    |
| Trace Impurities – Lead (Pb)                           | <= 1.0 ppb    | < 0.5  |
| Trace Impurities – Lithium (Li)                        | <= 1.0 ppb    | < 0.2  |
| Trace Impurities – Magnesium (Mg)                      | <= 10.0 ppb   | < 0.4  |
| Trace Impurities – Manganese (Mn)                      | <= 1.0 ppb    | < 0.4  |
| Trace Impurities – Mercury (Hg)                        | <= 0.5 ppb    | 0.2    |
| Trace Impurities – Molybdenum (Mo)                     | <= 10.0 ppb   | < 5.0  |
| Trace Impurities – Nickel (Ni)                         | <= 4.0 ppb    | < 0.3  |
| Trace Impurities – Niobium (Nb)                        | <= 1.0 ppb    | < 0.2  |
| Trace Impurities – Potassium (K)                       | <= 9.0 ppb    | < 2.0  |
| Trace Impurities – Selenium (Se), For Information Only | ppb           | 1.0    |
| Trace Impurities – Silicon (Si)                        | <= 100.0 ppb  | 18.0   |
| Trace Impurities – Silver (Ag)                         | <= 1.0 ppb    | < 0.3  |
| Trace Impurities – Sodium (Na)                         | <= 100.0 ppb  | < 5.0  |
| Trace Impurities – Strontium (Sr)                      | <= 1.0 ppb    | < 0.2  |
| Trace Impurities – Tantalum (Ta)                       | <= 1.0 ppb    | < 0.9  |
| Trace Impurities – Thallium (Tl)                       | <= 5.0 ppb    | < 2.0  |
| Trace Impurities – Tin (Sn)                            | <= 5.0 ppb    | < 0.8  |
| Trace Impurities – Titanium (Ti)                       | <= 1.0 ppb    | < 0.2  |
| Trace Impurities – Vanadium (V)                        | <= 1.0 ppb    | < 0.2  |
| Trace Impurities – Zinc (Zn)                           | <= 5.0 ppb    | 0.4    |
| Trace Impurities – Zirconium (Zr)                      | <= 1.0 ppb    | < 0.1  |

For Laboratory, Research or Manufacturing Use

Product Information (not specifications):

Appearance (clear, fuming liquid)

Meets ACS Specifications

Country of Origin: US

Packaging Site: Phillipsburg Mfg Ctr & DC

  
Jamie Ethier  
Vice President Global Quality



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-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/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

$k$  is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle  
Bellefonte, PA 16823-8812  
Tel: 1-814-353-1300  
Fax: 1-814-353-1309

www.restek.com

## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

chromatographic plus



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

**Catalog No. :** 31853 **Lot No.:** A0196453  
**Description :** 1,4-dioxane  
1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul  
**Container Size :** 2 mL **Pkg Amt:** > 1 mL  
**Expiration Date :** March 31, 2028 **Storage:** 0°C or colder  
**Ship:** Ambient

S11749  
↓  
S11794 } RC / 11/30/23

### CERTIFIED VALUES

| Elution Order | Compound    | CAS #    | Lot #    | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|-------------|----------|----------|--------|-----------------------------|----------------------------------------|
| 1             | 1,4-Dioxane | 123-91-1 | SHBN3770 | 99%    | 2,013.0 µg/mL               | +/- 25.0521                            |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

## Quality Confirmation Test

**Column:**

30m x 0.25mm x 0.25µm  
Rtx-5 (cat.#10223)

**Carrier Gas:**

hydrogen-constant flow 1.8 mL/min.

**Temp. Program:**

80°C (hold 0.1 min.) to 330°C  
@ 9.6°C/min. (hold 2.86 min.)

**Inj. Temp:**

250°C

**Det. Temp:**

340°C

**Det. Type:**

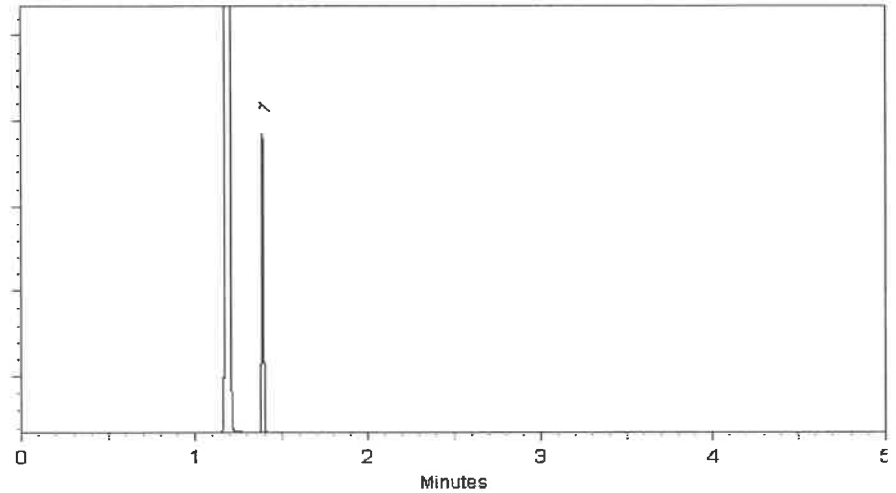
FID

**Split Vent:**

100 mL/min.

**Inj. Vol**

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

*Sam Moodler*  
Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023 Balance Serial # B707717271

*Jennifer Pollino*  
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-2023

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

$k$  is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

chromatographic plus



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

**Catalog No. :** 31853 **Lot No.:** A0196453  
**Description :** 1,4-dioxane  
1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul  
**Container Size :** 2 mL **Pkg Amt:** > 1 mL  
**Expiration Date :** March 31, 2028 **Storage:** 0°C or colder  
**Ship:** Ambient

S11749  
↓  
S11794 } RC / 11/30/23

### CERTIFIED VALUES

| Elution Order | Compound    | CAS #    | Lot #    | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|-------------|----------|----------|--------|-----------------------------|----------------------------------------|
| 1             | 1,4-Dioxane | 123-91-1 | SHBN3770 | 99%    | 2,013.0 µg/mL               | +/- 25.0521                            |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

## Quality Confirmation Test

**Column:**

30m x 0.25mm x 0.25µm  
Rtx-5 (cat.#10223)

**Carrier Gas:**

hydrogen-constant flow 1.8 mL/min.

**Temp. Program:**

80°C (hold 0.1 min.) to 330°C  
@ 9.6°C/min. (hold 2.86 min.)

**Inj. Temp:**

250°C

**Det. Temp:**

340°C

**Det. Type:**

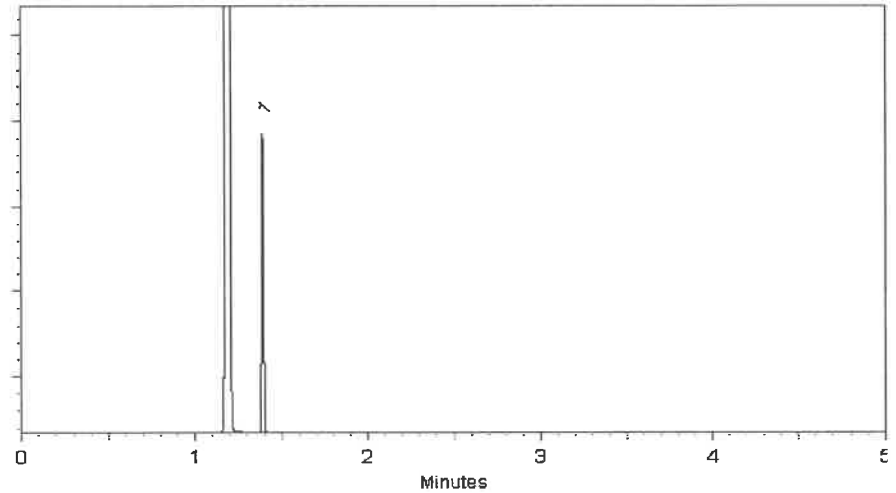
FID

**Split Vent:**

100 ml/min.

**Inj. Vol**

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

*Sam Moodler*  
Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023

Balance Serial # B707717271

*Jennifer Pollino*  
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-2023

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

$k$  is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 33913 **Lot No.:** A0201976

**Description :** SOM01.0 SIM Analysis Standard

SOM01.0 SIM Analysis Standard 2000µg/mL, Methylene chloride, 1mL /ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** August 31, 2029 **Storage:** 10°C or colder

**Handling:** Sonication required. Mix is photosensitive. **Ship:** Ambient

S11828  
↓  
S11832 } RC/  
11/30/23

## CERTIFIED VALUES

| Elution Order | Compound                | CAS #      | Lot #    | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|-------------------------|------------|----------|--------|-----------------------------|----------------------------------------|
| 1             | 2-Methylnaphthalene-d10 | 7297-45-2  | EF-135   | 98%    | 2,015.9 µg/mL               | +/- 90.8098                            |
| 2             | Fluoranthene-d10        | 93951-69-0 | PR-32557 | 99%    | 2,020.0 µg/mL               | +/- 90.9963                            |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

## Quality Confirmation Test

**Column:**

30m x 0.25mm x 0.25µm  
Rtx-5 (cat.#10223)

**Carrier Gas:**

hydrogen-constant pressure 10 psi.

**Temp. Program:**

75°C (hold 1 min.) to 330°C  
@ 20°C/min. (hold 10 min.)

**Inj. Temp:**

250°C

**Det. Temp:**

330°C

**Det. Type:**

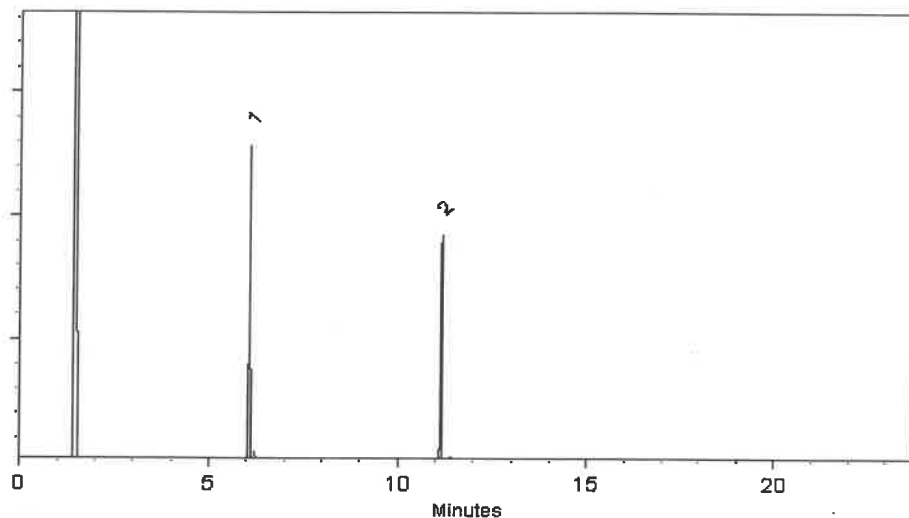
FID

**Split Vent:**

10 ml/min.

**Inj. Vol**

1µl

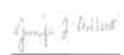


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

  
Dakota Parson - Operations Technician I

Date Mixed: 13-Sep-2023

Balance Serial # B442140311

  
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 28-Sep-2023

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

$k$  is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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by TUV USA to ISO 9001:2015

Date Received: \_\_\_\_\_

## Certificate of Analysis

Rev 0

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| Catalog No.: | Lot No.: | Storage: | Solvent:     | Exp. Date: | Description:                             |                     |
|--------------|----------|----------|--------------|------------|------------------------------------------|---------------------|
| Z-020223-01  | 454157   | ≤ -10 °C | P/T Methanol | 6/10/2026  | 1,4-Dioxane Solution, 2000 mg/L,<br>1 mL |                     |
| Compound     |          |          | CAS No.      | Purity (%) | Compound Lot No.                         | Concentration, mg/L |
| 1,4-dioxane  |          |          | 123-91-1     | 100        | 223.1.3P                                 | 1997 ± 57.08        |

512112 } RC/  
↓  
912116 } 03/08/24

\*Not a certified value

Certified By: \_\_\_\_\_

Melissa Workoff  
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.  
Concentration (correct for purity) and uncertainty (95% confidence) values  
listed are determined gravimetrically.



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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

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### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31087 **Lot No.:** A0206206  
**Description :** Acid Surrogate Mix (4/89 SOW)  
Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul  
**Container Size :** 5 mL **Pkg Amt:** > 5 mL  
**Expiration Date :** January 31, 2032 **Storage:** 10°C or colder  
**Ship:** Ambient

512187 } RC/  
↓ } 03/18/24  
512206 }

### CERTIFIED VALUES

| Elution Order | Compound             | CAS #      | Lot #       | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty* (95% C.L.; K=2) |
|---------------|----------------------|------------|-------------|--------|-----------------------------|---------------------------------------|
| 1             | 2-Fluorophenol       | 367-12-4   | STBK1705    | 99%    | 10,005.3 µg/mL              | +/- 302.5390                          |
| 2             | Phenol-d6            | 13127-88-3 | PR-33287A   | 99%    | 10,005.5 µg/mL              | +/- 302.5475                          |
| 3             | 2,4,6-Tribromophenol | 118-79-6   | RP230831RSR | 99%    | 10,006.6 µg/mL              | +/- 302.5783                          |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methanol  
**CAS #** 67-56-1  
**Purity** 99%

# Quality Confirmation Test

**Column:**

30m x 0.25mm x 0.25µm  
Rtx-5 (cat.#10223)

**Carrier Gas:**

hydrogen-constant pressure 10 psi.

**Temp. Program:**

40°C (hold 2 min.) to 330°C  
@ 10°C/min. (hold 10 min.)

**Inj. Temp:**

250°C

**Det. Temp:**

330°C

**Det. Type:**

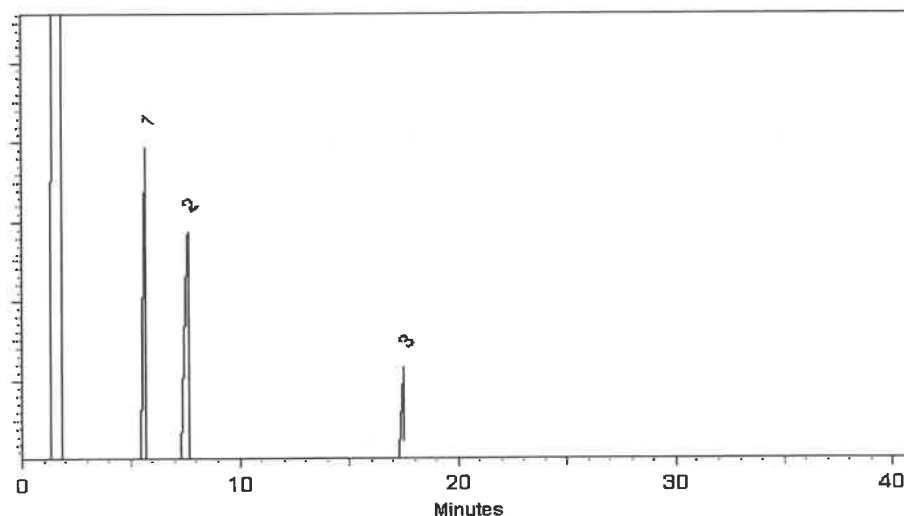
FID

**Split Vent:**

2 ml/min.

**Inj. Vol**

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

*Penelope S. Riglin*

Penelope Riglin - Operations Tech I

Date Mixed: 04-Jan-2024

Balance Serial # 1128360905

*Christie Mills*

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Jan-2024

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397



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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

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### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31086 **Lot No.:** A0206381  
**Description :** B/N Surrogate Mix (4/89 SOW)  
Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul  
**Container Size :** 5 mL **Pkg Amt:** > 5 mL  
**Expiration Date :** December 31, 2029 **Storage:** 10°C or colder  
**Handling:** Sonicate prior to use. **Ship:** Ambient

S12207 } RC/  
↓  
S12221 } 03/18/24

### CERTIFIED VALUES

| Elution Order | Compound         | CAS #     | Lot #    | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|------------------|-----------|----------|--------|-----------------------------|----------------------------------------|
| 1             | Nitrobenzene-d5  | 4165-60-0 | I-25158  | 99%    | 5,029.3 µg/mL               | +/- 226.5204                           |
| 2             | 2-Fluorobiphenyl | 321-60-8  | 00021384 | 99%    | 5,030.9 µg/mL               | +/- 226.5936                           |
| 3             | p-Terphenyl-d14  | 1718-51-0 | PR-32599 | 99%    | 5,026.4 µg/mL               | +/- 226.3909                           |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

### Tech Tips:

Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

# Quality Confirmation Test

**Column:**

30m x 0.25mm x 0.25µm  
Rtx-S (cat.#10223)

**Carrier Gas:**

hydrogen-constant pressure 10 psi.

**Temp. Program:**

40°C (hold 2 min.) to 330°C  
@ 10°C/min. (hold 10 min.)

**Inj. Temp:**

250°C

**Det. Temp:**

330°C

**Det. Type:**

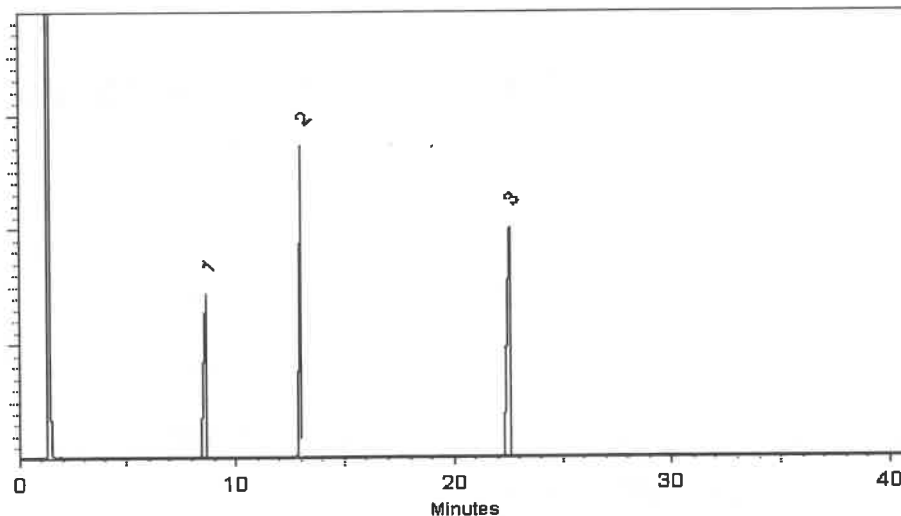
FID

**Split Vent:**

2 ml/min.

**Inj. Vol**

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024 Balance Serial # 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397



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

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|                     |                 |                 |                    |                   |                                                                |
|---------------------|-----------------|-----------------|--------------------|-------------------|----------------------------------------------------------------|
| <b>Catalog No.:</b> | <b>Lot No.:</b> | <b>Storage:</b> | <b>Solvent:</b>    | <b>Exp. Date:</b> | <b>Description:</b>                                            |
| Z-110381-01         | 520963          | ≤ -10 °C        | Methylene Chloride | 10/10/2028        | Method 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1 mL |

| Compound                          | CAS No.  | Purity (%) | Compound Lot No. | Concentration, mg/L |
|-----------------------------------|----------|------------|------------------|---------------------|
| acenaphthene                      | 83-32-9  | 99.9       | 13.1.5P          | 1010 ± 9.89         |
| acenaphthylene                    | 208-96-8 | 97.6       | 14.290.1P        | 1014 ± 9.93         |
| aniline                           | 62-53-3  | 99.97      | 64.1.4P          | 1001 ± 9.8          |
| anthracene                        | 120-12-7 | 99.5       | 15.7.1P          | 999.6 ± 9.79        |
| azobenzene                        | 103-33-3 | 98.1       | 252.7.2P         | 999.1 ± 9.8         |
| benzo[a]anthracene                | 56-55-3  | 100        | 16.7.3P          | 1007 ± 9.86         |
| benzo[b]fluoranthene              | 205-99-2 | 99.8       | 17.421.3P        | 1011 ± 14.11        |
| benzo[k]fluoranthene              | 207-08-9 | 98.9       | 18.421.4P        | 1001 ± 10.96        |
| benzo[ghi]perylene                | 191-24-2 | 93         | 19.286.4P        | 999.6 ± 13.95       |
| benzo[a]pyrene                    | 50-32-8  | 97         | 20.286.2P        | 999.9 ± 22.24       |
| benzyl alcohol                    | 100-51-6 | 99.9       | 65.18.1P         | 1001 ± 9.82         |
| bis(2-chloroethoxy)methane        | 111-91-1 | 99.1       | 31.3.15P         | 1000 ± 14.69        |
| bis(2-chloroethyl)ether           | 111-44-4 | 99.8       | 32.7.1P          | 1003 ± 13.89        |
| bis(2-chloro-1-methylethyl) ether | 108-60-1 | 99.5       | 34.3.15P         | 999.4 ± 14.68       |
| bis(2-ethylhexyl)adipate          | 103-23-1 | 99.5       | 874.7.1P         | 999.5 ± 9.8         |
| bis(2-ethylhexyl)phthalate        | 117-81-7 | 99.4       | 33.29.1P         | 998.8 ± 17.03       |
| 4-bromophenyl phenyl ether        | 101-55-3 | 99.4       | 35.7.1.1P        | 1000 ± 13.85        |
| butyl benzyl phthalate            | 85-68-7  | 98.4       | 36.1.6P          | 984.7 ± 16.79       |
| carbazole                         | 86-74-8  | 99.4       | 239.7.2P         | 1000 ± 9.8          |

\*Not a certified value

512270 } RC/  
↓  
512274 } 05/24/24

*Kerry Kane*

Certified By: \_\_\_\_\_

Kerry Kane  
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.  
Concentration (correct for purity) and uncertainty (95% confidence) values  
listed are determined gravimetrically.

# Certificate of Analysis

Page 2 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

| Compound                   | CAS No.   | Purity (%) | Compound Lot No. | Concentration, mg/L |
|----------------------------|-----------|------------|------------------|---------------------|
| 4-chloroaniline            | 106-47-8  | 100        | 66.7.1P          | 1000 ± 9.79         |
| 4-chlorophenylphenyl ether | 7005-72-3 | 98         | 37.158.2P        | 1001 ± 17.07        |
| 4-chloro-3-methylphenol    | 59-50-7   | 99         | 102.1.2P         | 1006 ± 17.16        |
| 2-chloronaphthalene        | 91-58-7   | 99.9       | 42.7.6P          | 1000 ± 9.79         |
| 2-chlorophenol             | 95-57-8   | 99.8       | 103.7.1P         | 1007 ± 13.96        |
| chrysene                   | 218-01-9  | 96         | 21.286.2P        | 998.4 ± 12.85       |
| dibenz[a,h]anthracene      | 53-70-3   | 99.44      | 22.286.3P        | 1000 ± 9.74         |
| dibenzofuran               | 132-64-9  | 100        | 67.7.2.1P        | 1002 ± 9.77         |
| di-n-butyl phthalate       | 84-74-2   | 99.84      | 40.286.1P        | 1007 ± 24.48        |
| 1,2-dichlorobenzene        | 95-50-1   | 99.8       | 43.7.1P          | 1000 ± 9.79         |
| 1,3-dichlorobenzene        | 541-73-1  | 99.5       | 44.1.3P          | 999.4 ± 9.79        |
| 1,4-dichlorobenzene        | 106-46-7  | 99.9       | 45.29.2P         | 1000 ± 9.79         |
| 2,4-dichlorophenol         | 120-83-2  | 99.6       | 104.7.1.1P       | 1005 ± 13.93        |
| diethyl phthalate          | 84-66-2   | 99.8       | 38.7.1P          | 1011 ± 14           |
| 2,4-dimethylphenol         | 105-67-9  | 99.6       | 105.7.1.1P       | 1009 ± 13.98        |
| dimethyl phthalate         | 131-11-3  | 99.9       | 39.9.2P          | 996.5 ± 13.8        |
| 1,2-dinitrobenzene         | 528-29-0  | 99.86      | 86.7.3.1P        | 999.5 ± 9.75        |
| 1,3-dinitrobenzene         | 99-65-0   | 100        | 313.7.2P         | 998 ± 9.79          |
| 1,4-dinitrobenzene         | 100-25-4  | 100        | 907.7.1P         | 999.5 ± 9.8         |
| 2,4-dinitrophenol          | 51-28-5   | 99.9       | 106.1.6DP        | 1002 ± 13.89        |
| 2,4-dinitrotoluene         | 121-14-2  | 100        | 87.7.3P          | 999.8 ± 13.85       |
| 2,6-dinitrotoluene         | 606-20-2  | 99.4       | 88.7.2.1P        | 999.6 ± 13.85       |
| di-n-octyl phthalate       | 117-84-0  | 99.1       | 41.7.5P          | 991.6 ± 13.74       |
| diphenylamine              | 122-39-4  | 100        | 78.1.6P          | 998 ± 13.79         |
| 2,3,5,6-tetrachlorophenol  | 935-95-5  | 97         | 1112.286.1P      | 1004 ± 14.02        |
| fluoranthene               | 206-44-0  | 98.6       | 23.7.4P          | 999.6 ± 9.79        |
| fluorene                   | 86-73-7   | 98.4       | 24.7.1P          | 999.7 ± 9.79        |

\*Not a certified value

*Kerry Kane*

Certified By:

Kerry Kane  
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.  
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

# Certificate of Analysis

Page 3 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

| Compound                   | CAS No.  | Purity (%) | Compound Lot No. | Concentration, mg/L |
|----------------------------|----------|------------|------------------|---------------------|
| hexachlorobenzene          | 118-74-1 | 99         | 46.158.4P        | 999.9 ± 13.96       |
| hexachlorobutadiene        | 87-68-3  | 97.4       | 47.1.4P          | 1000 ± 9.79         |
| hexachlorocyclopentadiene  | 77-47-4  | 99.2       | 48.2.2P          | 1001 ± 9.8          |
| hexachloroethane           | 67-72-1  | 99.9       | 49.1.4P          | 1003 ± 9.82         |
| indeno[1,2,3-cd]pyrene     | 193-39-5 | 98         | 25.286.4P        | 999.4 ± 22.23       |
| isophorone                 | 78-59-1  | 98.9       | 90.1.4P          | 999.9 ± 13.85       |
| 2-methyl-4,6-dinitrophenol | 534-52-1 | 99.6       | 107.421.2DP      | 991 ± 24.09         |
| 1-methylnaphthalene        | 90-12-0  | 97.1       | 249.7.5P         | 999.2 ± 13.95       |
| 2-methylnaphthalene        | 91-57-6  | 97.4       | 68.7.2P          | 1006 ± 22.38        |
| 2-methylphenol             | 95-48-7  | 99.6       | 114.7.3P         | 1001 ± 13.87        |
| 3-methylphenol             | 108-39-4 | 99.1       | 115.7.4P         | 499.7 ± 6.92        |
| 4-methylphenol             | 106-44-5 | 99.5       | 116.7.1P         | 501.2 ± 6.94        |
| naphthalene                | 91-20-3  | 99.8       | 26.9.1P          | 1018 ± 9.97         |
| 2-nitroaniline             | 88-74-4  | 99.7       | 69.29.1P         | 999.6 ± 9.79        |
| 3-nitroaniline             | 99-09-2  | 100        | 70.7.3P          | 1000 ± 9.74         |
| 4-nitroaniline             | 100-01-6 | 99.7       | 71.29.1P         | 1001 ± 9.8          |
| nitrobenzene               | 98-95-3  | 100        | 94.7.1P          | 1000 ± 13.85        |
| 2-nitrophenol              | 88-75-5  | 99.1       | 108.29.1P        | 996.5 ± 13.81       |
| 4-nitrophenol              | 100-02-7 | 100        | 109.7.1P         | 1000 ± 13.82        |
| N-nitrosodimethylamine     | 62-75-9  | 99.5       | 57.3.19P         | 998.5 ± 14.67       |
| N-nitrosodi-n-propylamine  | 621-64-7 | 99.8       | 59.286.1P        | 996.8 ± 17          |
| pentachlorophenol          | 87-86-5  | 99         | 110.1.7P         | 1004 ± 13.92        |
| phenanthrene               | 85-01-8  | 99.7       | 27.1.5P          | 999 ± 12.87         |
| phenol                     | 108-95-2 | 100        | 112.7.1P         | 998.5 ± 13.8        |
| pyrene                     | 129-00-0 | 99.2       | 28.9.2P          | 998.9 ± 9.78        |
| pyridine                   | 110-86-1 | 100        | 101.24.1P        | 999 ± 9.73          |
| 2,3,4,6-Tetrachlorophenol  | 58-90-2  | 91.8       | 120.421.1P       | 996.5 ± 13.92       |

\*Not a certified value

*Kerry Kane*

Certified By:

Kerry Kane  
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.  
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

# Certificate of Analysis

Page 4 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

| Compound               | CAS No.  | Purity (%) | Compound Lot No. | Concentration, mg/L |
|------------------------|----------|------------|------------------|---------------------|
| 1,2,4-trichlorobenzene | 120-82-1 | 99.6       | 54.29.1P         | 999.6 ± 9.79        |
| 2,4,5-trichlorophenol  | 95-95-4  | 96.5       | 121.7.1.1P       | 999.5 ± 13.85       |
| 2,4,6-trichlorophenol  | 88-06-2  | 99.6       | 113.7.1P         | 996 ± 13.8          |

\*Not a certified value



Certified By:

Kerry Kane  
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.  
Concentration (correct for purity) and uncertainty (95% confidence) values  
listed are determined gravimetrically.



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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.:** A0206540

**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 :** December 31, 2029 **Storage:** 10°C or colder

**Handling:** Sonication required. Mix is photosensitive. **Ship:** Ambient

S12312 } RC/  
↓ 05/30/24  
S12331

## 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%    | 2,007.1 µg/mL               | +/- 90.4025                            |
| 2             | Naphthalene-d8         | 1146-65-2  | M-2180   | 99%    | 2,005.9 µg/mL               | +/- 90.3454                            |
| 3             | Acenaphthene-d10       | 15067-26-2 | PR-33507 | 99%    | 2,007.9 µg/mL               | +/- 90.4385                            |
| 4             | Phenanthrene-d10       | 1517-22-2  | PR-32303 | 99%    | 2,006.7 µg/mL               | +/- 90.3845                            |
| 5             | Chrysene-d12           | 1719-03-5  | PR-32210 | 99%    | 2,015.5 µg/mL               | +/- 90.7778                            |
| 6             | Perylene-d12           | 1520-96-3  | PR-33205 | 99%    | 2,014.7 µg/mL               | +/- 90.7448                            |

\* 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:**

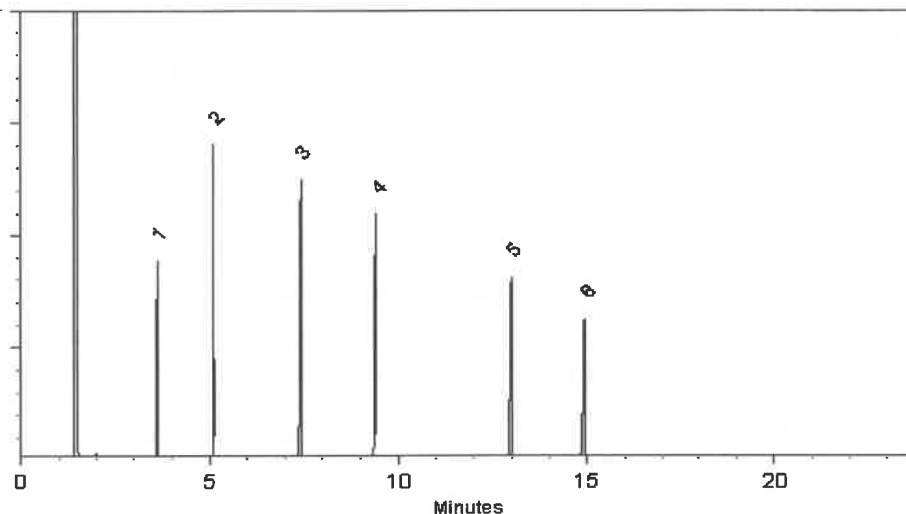
FID

**Split Vent:**

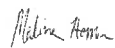
10 ml/min.

**Inj. Vol**

1µl

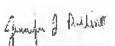


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

  
Malina Homan - Operations Technician I

Date Mixed: 12-Jan-2024

Balance Serial # 1128360905

  
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 16-Jan-2024

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397



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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

gravimetric



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 555223 **Lot No.:** A0214021

**Description :** Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** July 31, 2026 **Storage:** 10°C or colder

**Handling:** This product is photosensitive. **Ship:** Ambient

### CERTIFIED VALUES

| Component # | Compound               | CAS #     | Lot #      | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|-------------|------------------------|-----------|------------|--------|-----------------------------|----------------------------------------|
| 1           | 3,3'-Dichlorobenzidine | 91-94-1   | S240326RSR | 99%    | 1,004.0 µg/mL               | +/- 23.0487                            |
| 2           | Atrazine               | 1912-24-9 | 5FYWL      | 99%    | 1,005.0 µg/mL               | +/- 23.0717                            |
| 3           | Benzidine              | 92-87-5   | S240430RSR | 99%    | 1,006.0 µg/mL               | +/- 23.0947                            |
| 4           | epsilon-Caprolactam    | 105-60-2  | Y16H012    | 99%    | 1,000.0 µg/mL               | +/- 22.9569                            |

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

S12449 } RC/  
↓  
S12508 } 7/24/24

Rebecca Gingerich - Operations Tech II

**Date Mixed:** 18-Jul-2024

**Balance:** 1128353505

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

$k$  is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

gravimetric



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 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.
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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

gravimetric



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 555224 **Lot No.:** A0214017

**Description :** Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** July 31, 2026 **Storage:** 10°C or colder

**Ship:** Ambient

### CERTIFIED VALUES

| Component # | Compound                   | CAS #    | Lot #        | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|-------------|----------------------------|----------|--------------|--------|-----------------------------|----------------------------------------|
| 1           | 1,2,4,5-Tetrachlorobenzene | 95-94-3  | MKCT9480     | 99%    | 1,005.0 µg/mL               | +/- 29.541899                          |
| 2           | Acetophenone               | 98-86-2  | STBH8205     | 99%    | 1,005.0 µg/mL               | +/- 29.541899                          |
| 3           | Benzaldehyde               | 100-52-7 | RD231129RSRA | 99%    | 1,008.0 µg/mL               | +/- 29.630084                          |
| 4           | Benzoic acid               | 65-85-0  | MKCR2694     | 99%    | 1,010.0 µg/mL               | +/- 29.688874                          |
| 5           | Biphenyl                   | 92-52-4  | MKCS5928     | 99%    | 1,008.0 µg/mL               | +/- 29.630084                          |

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

S12509 } RC/  
↓  
S12568 } 7/24/24

  
Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024

Balance: 1128360905

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

$k$  is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

gravimetric



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 555224 **Lot No.:** A0214017

**Description :** Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** July 31, 2026 **Storage:** 10°C or colder

**Ship:** Ambient

### CERTIFIED VALUES

| Component # | Compound                   | CAS #    | Lot #        | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|-------------|----------------------------|----------|--------------|--------|-----------------------------|----------------------------------------|
| 1           | 1,2,4,5-Tetrachlorobenzene | 95-94-3  | MKCT9480     | 99%    | 1,005.0 µg/mL               | +/- 29.541899                          |
| 2           | Acetophenone               | 98-86-2  | STBH8205     | 99%    | 1,005.0 µg/mL               | +/- 29.541899                          |
| 3           | Benzaldehyde               | 100-52-7 | RD231129RSRA | 99%    | 1,008.0 µg/mL               | +/- 29.630084                          |
| 4           | Benzoic acid               | 65-85-0  | MKCR2694     | 99%    | 1,010.0 µg/mL               | +/- 29.688874                          |
| 5           | Biphenyl                   | 92-52-4  | MKCS5928     | 99%    | 1,008.0 µg/mL               | +/- 29.630084                          |

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

S12509 } RC/  
↓  
S12568 } 7/24/24

  
Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024

Balance: 1128360905

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

$k$  is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle  
Bellefonte, PA 16823-8812  
Tel: 1-814-353-1300  
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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

chromatographic plus



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31615 **Lot No.:** A0212955  
**Description :** GC/MS Tuning Mixture  
GC/MS Tuning Mixture 1,000µg/mL, Methylene Chloride, 1mL/ampul  
**Container Size :** 2 mL **Pkg Amt:** > 1 mL  
**Expiration Date :** June 30, 2027 **Storage:** 10°C or colder  
**Handling:** Contains carcinogen/reproductive toxin. **Ship:** Ambient

### CERTIFIED VALUES

| Elution Order | Compound                             | CAS #     | Lot #       | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|--------------------------------------|-----------|-------------|--------|-----------------------------|----------------------------------------|
| 1             | Pentachlorophenol                    | 87-86-5   | RP240517RSR | 99%    | 1,004.5 µg/mL               | +/- 44.8902                            |
| 2             | DFTPP (Decafluorotriphenylphosphine) | 5074-71-5 | Q117-147    | 99%    | 1,004.5 µg/mL               | +/- 44.8902                            |
| 3             | Benzidine                            | 92-87-5   | S240430RSR  | 99%    | 1,006.0 µg/mL               | +/- 44.9572                            |
| 4             | 4,4'-DDT                             | 50-29-3   | S240530RSR  | 97%    | 1,000.1 µg/mL               | +/- 44.6922                            |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

S12577 } RC  
↓  
S12579 } 8/2/24

Quality Confirmation Test

**Column:**  
30m x 0.25mm x 0.25µm  
Rtx-5 (cat.#10223)

**Carrier Gas:**  
hydrogen-constant pressure 10 psi.

**Temp. Program:**  
75°C (hold 1 min.) to 330°C  
@ 20°C/min. (hold 10 min.)

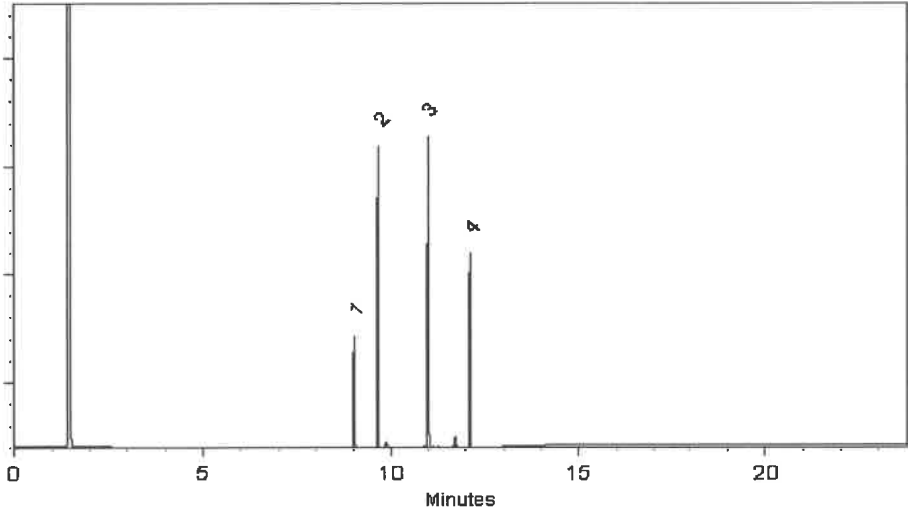
**Inj. Temp:**  
250°C

**Det. Temp:**  
330°C

**Det. Type:**  
FID

**Split Vent:**  
10 ml/min.

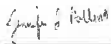
**Inj. Vol**  
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

  
Ethan Winiarski - Operations Tech I

Date Mixed: 19-Jun-2024      Balance Serial # 1128353505

  
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 26-Jun-2024

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397



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## CERTIFIED REFERENCE MATERIAL

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### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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**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.



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## CERTIFIED REFERENCE MATERIAL

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### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 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 | Accenaphthylene                               | 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.



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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

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### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 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

## SHIP TO:

Attn: **Sohil Jodhani**  
Alliance Technical Group NJ  
284 Sheffield St.

Mountainside, NJ 07092 -

Purchase Order # .  
Packing Order #: 246634

Received by: SJ

4/23/25

12:00

Order #: **246634**

Order Date: 4/21/2025

Order Time: 9:46:18 AM

Your Account #: **3552**

Sales Person: Chris Dippold

Inspected By: **Chris Dippold**

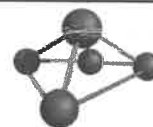
| <u>PART #</u> | <u>LOT #</u> | <u>DESCRIPTION</u>                                                   | <u>Unit Size</u> | <u>QTY</u> |
|---------------|--------------|----------------------------------------------------------------------|------------------|------------|
|               |              | <b>Quick Turn Around</b>                                             |                  |            |
| 38072         | 010925       | PT Semi-Volatiles in Non-Potable Water - CLP<br>- FEDEX# 2356-9742-4 | 2 mL             | 1          |

Ship Via: Ground Collect

THIS IS NOT AN INVOICE, TERMS: NET 30 DAYS, FOB HAMDEN, CT



ISO 9001 Registered • ANAB Accredited



## SHIP TO:

Attn: **Sohil Jodhani**Alliance Technical Group NJ  
284 Sheffield St.

Mountainside, NJ 07092 -

Purchase Order # **P02-2004**

Packing Order #: 246699

Order #: **246699**

Order Date: 4/22/2025

Order Time: 2:38:14 PM

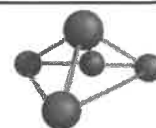
Your Account #: **3552**Sales Person: **Chris Dippold**Inspected By: **Chris Dippold***Received by SJ  
4/24/25  
12:00*

| <u>PART #</u> | <u>LOT #</u> | <u>DESCRIPTION</u>                                                   | <u>Unit Size</u> | <u>QTY</u> |
|---------------|--------------|----------------------------------------------------------------------|------------------|------------|
|               |              | <b>Quick Turn Around</b>                                             |                  |            |
| 38073         | 100124       | PT Semi-Volatiles in Non-Potable Water - CLP<br>- FEDEX# 2356-9742-4 | 2 mL             | 1          |

Ship Via: Ground Collect

**THIS IS NOT AN INVOICE, TERMS: NET 30 DAYS, FOB HAMDEN, CT**

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### 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       |