

## Cover Page

**Order ID :** P5284

**Project ID :** CTO WE13

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

**Lab Sample Number**

P5284-01  
P5284-02  
P5284-03

**Client Sample Number**

RW5-SP100-20241212  
RW5-SP201-20241212  
RW5-SP303-20241212

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: 12/27/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

## **CASE NARRATIVE**

**Tetra Tech NUS, Inc.**

**Project Name: CTO WE13**

Project Manager: Ernie Wu

**Chemtech Project # P5284**

**Test Name: SVOC-SIMGroup1**

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

3 Water samples were received on 12/13/2024.

### **B. Parameters**

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

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

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

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

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria except for RW5-SP100-20241212 [Nitrobenzene-d5 - 123%, Terphenyl-d14 - 169%], RW5-SP100-20241212DL [2-Fluorobiphenyl - 139%, Fluoranthene-d10 - 179%, Nitrobenzene-d5 - 185%, Terphenyl-d14 - 231%], RW5-SP201-20241212 [Terphenyl-d14 - 154%], RW5-SP303-20241212 [Nitrobenzene-d5 - 114%, Terphenyl-d14 - 162%], PB165667BL [Terphenyl-d14 - 140%] and PB165667BS [Nitrobenzene-d5 - 116%], The failure surrogates not associated with the client parameters list, therefore no corrective action was taken.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The MS {P5280-04MS} with File ID: BN035735.D recoveries met the requirements for all compounds except for 1,4-Dioxane[133%], marginally high due to matrix interference. therefore, no corrective action is required.

The MSD {P5280-05MSD} with File ID: BN035736.D recoveries met the acceptable requirements except for 1,4-Dioxane[138%], marginally high due to matrix interference therefore, no corrective action is required.

The RPD met criteria .

The Blank Spike met requirements for all samples .



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

The Continuous Calibration File ID BN035731.D met the requirements except for 2,4,6-Tribromophenol, The failure compound not associated with the client parameters list, therefore no corrective action was taken.

The Continuous Calibration File ID BN035747.D met the requirements except for 2,4,6-Tribromophenol, 2-Fluorobiphenyl, 2-Fluorophenol, Nitrobenzene-d5, Phenol-d6 and Terphenyl-d14 , The failure compound not associated with the client parameters list, therefore no corrective action was taken.

The Continuous Calibration File ID BN035749.D met the requirements except for Nitrobenzene-d5, The failure compound not associated with the client parameters list, therefore no corrective action was taken.

The Continuous Calibration File ID BN035794.D met the requirements except for 2,4,6-Tribromophenol, The failure compound not associated with the client parameters list, therefore no corrective action was taken..

The Continuous Calibration File ID BN035845.D met the requirements except for Nitrobenzene-d5, The failure compound not associated with the client parameters list, therefore no corrective action was taken. .  
The Tuning criteria met requirements.

Sample RW5-SP100-20241212 was diluted due to high concentration.

**E. Additional Comments:**

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

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

The not QT review data is reported in the Miscellaneous.

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 <15% 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 > 15% for the Initial Calibration curve for SW-846 analysis.



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**F. Manual Integration Comments:**

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

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

Signature\_\_\_\_\_



## 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: P5284

MATRIX: Water

METHOD: 8270-Modified/3510

|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | NA | NO | YES |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|-----|
| 1. | Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |    |    | ✓   |
| 2. | GC/MS Tuning Specifications. DFTPP Meet Criteria.<br>(NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP,<br>CLP AND NJ)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |    | ✓   |
| 3. | GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for<br>8000 Series.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |    |    | ✓   |
| 4. | GC/MS Calibration - Initial Calibration performed within 30 days before sample<br>analysis and continuing calibration performed within 24 hours of sample analysis for<br>600 series and 12 hours for 8000 series.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |    |    | ✓   |
| 5. | GC/MS Calibration Requirements.<br><br>The Initial Calibration met the requirements .<br>The Continuous Calibration File ID BN035731.D met the requirements except for<br>2,4,6-Tribromophenol, The failure compound not associated with the client parameters<br>list, therefore no corrective action was taken.<br><br>The Continuous Calibration File ID BN035747.D met the requirements except for<br>2,4,6-Tribromophenol,2-Fluorobiphenyl,2-Fluorophenol,Nitrobenzene-d5,Phenol-d6<br>and Terphenyl-d14 , The failure compound not associated with the client parameters<br>list, therefore no corrective action was taken.<br><br>The Continuous Calibration File ID BN035749.D met the requirements except for<br>Nitrobenzene-d5, The failure compound not associated with the client parameters list,<br>therefore no corrective action was taken.<br><br>The Continuous Calibration File ID BN035794.D met the requirements except for<br>2,4,6-Tribromophenol, The failure compound not associated with the client parameters<br>list, therefore no corrective action was taken..<br><br>The Continuous Calibration File ID BN035845.D met the requirements except for<br>Nitrobenzene-d5, The failure compound not associated with the client parameters list,<br>therefore no corrective action was taken. . |    | ✓  |     |
| 6. | Blank Contamination - If yes, list compounds and concentrations in each blank:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |    | ✓   |

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

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

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

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | NA | NO | YES |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|-----|
| 7.  | Surrogate Recoveries Meet Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    | ✓  |     |
|     | If not met, list those compounds and their recoveries which fall outside the acceptable ranges.                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |    |    |     |
|     | The Surrogate recoveries met the acceptable criteria except for RW5-SP100-20241212 [Nitrobenzene-d5 - 123%, Terphenyl-d14 - 169%], RW5-SP100-20241212DL [2-Fluorobiphenyl - 139%, Fluoranthene-d10 - 179%, Nitrobenzene-d5 - 185%, Terphenyl-d14 - 231%], RW5-SP201-20241212 [Terphenyl-d14 - 154%], RW5-SP303-20241212 [Nitrobenzene-d5 - 114%, Terphenyl-d14 - 162%], PB165667BL [Terphenyl-d14 - 140%] and PB165667BS [Nitrobenzene-d5 - 116%], The failure surrogates not associated with the client parameters list, therefore no corrective action was taken. |    |    |     |
| 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 MS {P5280-04MS} with File ID: BN035735.D recoveries met the requirements for all compounds except for 1,4-Dioxane[133%], marginally high due to matrix interference. therefore, no corrective action is required.<br>The MSD {P5280-05MSD} with File ID: BN035736.D recoveries met the acceptable requirements except for 1,4-Dioxane[138%], marginally high due to matrix interference therefore, no corrective action is required.<br>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:**

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

Sample RW5-SP100-20241212 was diluted due to high concentration.

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

The not QT review data is reported in the Miscellaneous.

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

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

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

**(CONTINUED)**

NA NO YES

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 <15% 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 > 15% for the Initial Calibration curve for SW-846 analysis.

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

\_\_\_\_\_  
Date

**APPENDIX A**

**QA REVIEW GENERAL DOCUMENTATION**

Project #: P5284

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: 12/27/2024

## LAB CHRONICLE

|                 |                      |                   |                       |
|-----------------|----------------------|-------------------|-----------------------|
| <b>OrderID:</b> | P5284                | <b>OrderDate:</b> | 12/13/2024 1:08:00 PM |
| <b>Client:</b>  | Tetra Tech NUS, Inc. | <b>Project:</b>   | CTO WE13              |
| <b>Contact:</b> | Ernie Wu             | <b>Location:</b>  | L61                   |

| LabID             | ClientID                         | Matrix       | Test           | Method        | Sample Date     | Prep Date | Anal Date | Received        |
|-------------------|----------------------------------|--------------|----------------|---------------|-----------------|-----------|-----------|-----------------|
| <b>P5284-01</b>   | <b>RW5-SP100-2024121<br/>2</b>   | <b>Water</b> |                |               | <b>12/12/24</b> |           |           | <b>12/13/24</b> |
|                   |                                  |              | SVOC-SIMGroup1 | 8270-Modified |                 | 12/16/24  | 12/24/24  |                 |
| <b>P5284-01DL</b> | <b>RW5-SP100-2024121<br/>2DL</b> | <b>Water</b> |                |               | <b>12/12/24</b> |           |           | <b>12/13/24</b> |
|                   |                                  |              | SVOC-SIMGroup1 | 8270-Modified |                 | 12/16/24  | 12/26/24  |                 |
| <b>P5284-02</b>   | <b>RW5-SP201-2024121<br/>2</b>   | <b>Water</b> |                |               | <b>12/12/24</b> |           |           | <b>12/13/24</b> |
|                   |                                  |              | SVOC-SIMGroup1 | 8270-Modified |                 | 12/16/24  | 12/21/24  |                 |
| <b>P5284-03</b>   | <b>RW5-SP303-2024121<br/>2</b>   | <b>Water</b> |                |               | <b>12/12/24</b> |           |           | <b>12/13/24</b> |
|                   |                                  |              | SVOC-SIMGroup1 | 8270-Modified |                 | 12/16/24  | 12/21/24  |                 |



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Fax : 908 789 8922

### Hit Summary Sheet SW-846

SDG No.: P5284  
Client: Tetra Tech NUS, Inc.

| Sample ID   | Client ID            |       | Parameter            | Concentration | C | MDL   | LOD | RDL | Units |
|-------------|----------------------|-------|----------------------|---------------|---|-------|-----|-----|-------|
| Client ID : | RW5-SP100-20241212   |       |                      |               |   |       |     |     |       |
| P5284-01    | RW5-SP100-20241212   | WATER | 1,4-Dioxane          | 9.600         | E | 0.07  | 0.2 | 0.2 | ug/L  |
|             |                      |       | Total Svoc :         |               |   | 9.60  |     |     |       |
|             |                      |       | Total Concentration: |               |   | 9.60  |     |     |       |
| Client ID : | RW5-SP100-20241212DL |       |                      |               |   |       |     |     |       |
| P5284-01DL  | RW5-SP100-20241212DI | WATER | 1,4-Dioxane          | 14.900        | D | 0.34  | 1   | 1   | ug/L  |
|             |                      |       | Total Svoc :         |               |   | 14.90 |     |     |       |
|             |                      |       | Total Concentration: |               |   | 14.90 |     |     |       |
| Client ID : | RW5-SP303-20241212   |       |                      |               |   |       |     |     |       |
| P5284-03    | RW5-SP303-20241212   | WATER | 1,4-Dioxane          | 0.090         | J | 0.07  | 0.2 | 0.2 | ug/L  |
|             |                      |       | Total Svoc :         |               |   | 0.09  |     |     |       |
|             |                      |       | Total Concentration: |               |   | 0.09  |     |     |       |



# QC SUMMARY



## Surrogate Summary

SW-846

SDG No.: **P5284**

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

Analytical Method: **8270-Modified**

| Lab Sample ID | Client ID            | Parameter               | Spike (PPM) | Result (PPM) | Recovery (%) | Qual | Limits (%) |      |
|---------------|----------------------|-------------------------|-------------|--------------|--------------|------|------------|------|
|               |                      |                         |             |              |              |      | Low        | High |
| P5280-04MS    | BPOW6-11-20241212MS  | 2-Methylnaphthalene-d10 | 0.4         | 0.32         | 79           |      | 30         | 150  |
|               |                      | Fluoranthene-d10        | 0.4         | 0.38         | 95           |      | 30         | 150  |
|               |                      | Nitrobenzene-d5         | 0.4         | 0.35         | 88           |      | 55         | 111  |
|               |                      | 2-Fluorobiphenyl        | 0.4         | 0.28         | 70           |      | 53         | 106  |
|               |                      | Terphenyl-d14           | 0.4         | 0.49         | 122          |      | 58         | 132  |
| P5280-05MSD   | BPOW6-11-20241212MSD | 2-Methylnaphthalene-d10 | 0.4         | 0.32         | 79           |      | 30         | 150  |
|               |                      | Fluoranthene-d10        | 0.4         | 0.39         | 97           |      | 30         | 150  |
|               |                      | Nitrobenzene-d5         | 0.4         | 0.36         | 89           |      | 55         | 111  |
|               |                      | 2-Fluorobiphenyl        | 0.4         | 0.28         | 69           |      | 53         | 106  |
|               |                      | Terphenyl-d14           | 0.4         | 0.49         | 122          |      | 58         | 132  |
| P5284-01      | RW5-SP100-20241212   | 2-Methylnaphthalene-d10 | 0.4         | 0.41         | 101          |      | 30         | 150  |
|               |                      | Fluoranthene-d10        | 0.4         | 0.46         | 114          |      | 30         | 150  |
|               |                      | Nitrobenzene-d5         | 0.4         | 0.49         | 123          | *    | 55         | 111  |
|               |                      | 2-Fluorobiphenyl        | 0.4         | 0.42         | 106          |      | 53         | 106  |
|               |                      | Terphenyl-d14           | 0.4         | 0.68         | 169          | *    | 58         | 132  |
| P5284-01DL    | RW5-SP100-20241212DL | 2-Methylnaphthalene-d10 | 0.4         | 0.56         | 139          |      | 30         | 150  |
|               |                      | Fluoranthene-d10        | 0.4         | 0.72         | 179          | *    | 30         | 150  |
|               |                      | Nitrobenzene-d5         | 0.4         | 0.74         | 185          | *    | 55         | 111  |
|               |                      | 2-Fluorobiphenyl        | 0.4         | 0.56         | 139          | *    | 53         | 106  |
|               |                      | Terphenyl-d14           | 0.4         | 0.93         | 231          | *    | 58         | 132  |
| P5284-02      | RW5-SP201-20241212   | 2-Methylnaphthalene-d10 | 0.4         | 0.40         | 100          |      | 30         | 150  |
|               |                      | Fluoranthene-d10        | 0.4         | 0.46         | 116          |      | 30         | 150  |
|               |                      | Nitrobenzene-d5         | 0.4         | 0.43         | 108          |      | 55         | 111  |
|               |                      | 2-Fluorobiphenyl        | 0.4         | 0.37         | 91           |      | 53         | 106  |
|               |                      | Terphenyl-d14           | 0.4         | 0.62         | 154          | *    | 58         | 132  |
| P5284-03      | RW5-SP303-20241212   | 2-Methylnaphthalene-d10 | 0.4         | 0.42         | 105          |      | 30         | 150  |
|               |                      | Fluoranthene-d10        | 0.4         | 0.50         | 125          |      | 30         | 150  |
|               |                      | Nitrobenzene-d5         | 0.4         | 0.46         | 114          | *    | 55         | 111  |
|               |                      | 2-Fluorobiphenyl        | 0.4         | 0.39         | 98           |      | 53         | 106  |
|               |                      | Terphenyl-d14           | 0.4         | 0.65         | 162          | *    | 58         | 132  |
| PB165667BL    | PB165667BL           | 2-Methylnaphthalene-d10 | 0.4         | 0.37         | 92           |      | 30         | 150  |
|               |                      | Fluoranthene-d10        | 0.4         | 0.38         | 95           |      | 30         | 150  |
|               |                      | Nitrobenzene-d5         | 0.4         | 0.43         | 107          |      | 55         | 111  |
|               |                      | 2-Fluorobiphenyl        | 0.4         | 0.36         | 89           |      | 53         | 106  |
|               |                      | Terphenyl-d14           | 0.4         | 0.56         | 140          | *    | 58         | 132  |
| PB165667BS    | PB165667BS           | 2-Methylnaphthalene-d10 | 0.4         | 0.46         | 115          |      | 30         | 150  |
|               |                      | Fluoranthene-d10        | 0.4         | 0.37         | 92           |      | 30         | 150  |
|               |                      | Nitrobenzene-d5         | 0.4         | 0.47         | 116          | *    | 55         | 111  |
|               |                      | 2-Fluorobiphenyl        | 0.4         | 0.40         | 100          |      | 53         | 106  |
|               |                      | Terphenyl-d14           | 0.4         | 0.43         | 108          |      | 58         | 132  |

**Matrix Spike/Matrix Spike Duplicate Summary**

**SW-846**

**SDG No.:** P5284

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

**Analytical Method:** SW8270-Modified

| Parameter      | Spike      | Sample<br>Result  | Result              | Units | Rec | Rec<br>Qual | RPD | RPD<br>Qual | Low        | Limits<br>High | RPD |
|----------------|------------|-------------------|---------------------|-------|-----|-------------|-----|-------------|------------|----------------|-----|
| Lab Sample ID: | P5280-04MS | Client Sample ID: | BPOW6-11-20241212MS |       |     |             |     | DataFile:   | BN035735.D |                |     |
| 1,4-Dioxane    | 0.4        | 0                 | 0.53                | ug/L  | 133 | *           |     |             | 70         | 130            |     |



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Fax : 908 789 8922

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P5284

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8270-Modified

| Parameter                  | Spike | Sample<br>Result  | Result               | Units | Rec | Rec<br>Qual | RPD | RPD<br>Qual | Low        | Limits<br>High | RPD |
|----------------------------|-------|-------------------|----------------------|-------|-----|-------------|-----|-------------|------------|----------------|-----|
| Lab Sample ID: P5280-05MSD |       | Client Sample ID: | BPOW6-11-20241212MSD |       |     |             |     | DataFile:   | BN035736.D |                |     |
| 1,4-Dioxane                | 0.4   | 0                 | 0.55                 | ug/L  | 138 | *           | 4   |             | 70         | 130            | 20  |

## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5284

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified DataFile: BN035808.D

| Lab Sample ID | Parameter   | Spike | Result | Unit | Rec | RPD | Qual | RPD  | Low | Limits | RPD |
|---------------|-------------|-------|--------|------|-----|-----|------|------|-----|--------|-----|
|               |             |       |        |      |     |     |      | Qual |     | High   |     |
| PB165667BS    | 1,4-Dioxane | 0.4   | 0.37   | ug/L | 93  |     |      |      | 70  | 130    |     |

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB165667BL

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM Case No.: P5284

SAS No.: P5284 SDG NO.: P5284

Lab File ID: BN035795.D

Lab Sample ID: PB165667BL

Instrument ID: BNA\_N

Date Extracted: 12/16/2024

Matrix: (soil/water) Water

Date Analyzed: 12/23/2024

Level: (low/med) LOW

Time Analyzed: 22:52

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 |
|----------------------|------------------|----------------|------------------|
| RW5-SP100-20241212   | P5284-01         | BN035805.D     | 12/24/2024       |
| PB165667BS           | PB165667BS       | BN035808.D     | 12/24/2024       |
| BPOW6-11-20241212MS  | P5280-04MS       | BN035735.D     | 12/20/2024       |
| BPOW6-11-20241212MSD | P5280-05MSD      | BN035736.D     | 12/20/2024       |
| RW5-SP201-20241212   | P5284-02         | BN035762.D     | 12/21/2024       |
| RW5-SP303-20241212   | P5284-03         | BN035763.D     | 12/21/2024       |

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



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Fax : 908 789 8922

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: TETR06Lab Code: CHEMSAS No.: P5284SDG NO.: P5284Lab File ID: BN035349.DDFTPP Injection Date: 11/27/2024Instrument ID: BNA\_NDFTPP Injection Time: 14:55

| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 51  | 10.0 - 80.0% of mass 198           | 21.6                 |
| 68  | Less than 2.0% of mass 69          | 0.0 ( 0.0 ) 1        |
| 69  | Mass 69 relative abundance         | 28.9                 |
| 70  | Less than 2.0% of mass 69          | 0.1 ( 0.4 ) 1        |
| 127 | 10.0 - 80.0% of mass 198           | 39.4                 |
| 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           | 27.9                 |
| 365 | Greater than 1% of mass 198        | 4.6                  |
| 441 | Present, but less than mass 443    | 11.5                 |
| 442 | Greater than 50% of mass 198       | 100                  |
| 443 | 15.0 - 24.0% of mass 442           | 14 ( 19.7 ) 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       | BN035350.D     | 11/27/2024       | 15:34            |
| SSTDICC0.2        | SSTDICC0.2       | BN035351.D     | 11/27/2024       | 16:10            |
| SSTDICCC0.4       | SSTDICCC0.4      | BN035352.D     | 11/27/2024       | 16:46            |
| SSTDICC0.8        | SSTDICC0.8       | BN035353.D     | 11/27/2024       | 17:21            |
| SSTDICC1.6        | SSTDICC1.6       | BN035354.D     | 11/27/2024       | 17:57            |
| SSTDICC3.2        | SSTDICC3.2       | BN035355.D     | 11/27/2024       | 18:33            |
| SSTDICC5.0        | SSTDICC5.0       | BN035356.D     | 11/27/2024       | 19:09            |



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: TETR06Lab Code: CHEMSAS No.: P5284SDG NO.: P5284Lab File ID: BN035730.DDFTPP Injection Date: 12/20/2024Instrument ID: BNA\_NDFTPP Injection Time: 07:25

| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 51  | 10.0 - 80.0% of mass 198           | 22.5                 |
| 68  | Less than 2.0% of mass 69          | 0.0 ( 0.0 ) 1        |
| 69  | Mass 69 relative abundance         | 31.3                 |
| 70  | Less than 2.0% of mass 69          | 0.2 ( 0.5 ) 1        |
| 127 | 10.0 - 80.0% of mass 198           | 38.3                 |
| 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            | 6.8                  |
| 275 | 10.0 - 60.0% of mass 198           | 28.6                 |
| 365 | Greater than 1% of mass 198        | 4.1                  |
| 441 | Present, but less than mass 443    | 13.2                 |
| 442 | Greater than 50% of mass 198       | 100                  |
| 443 | 15.0 - 24.0% of mass 442           | 15.5 (19.8) 2        |

1-Value is % mass 69

2-Value is % mass 442

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

| EPA<br>SAMPLE NO.    | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE<br>ANALYZED | TIME<br>ANALYZED |
|----------------------|------------------|----------------|------------------|------------------|
| SSTDCCC0.4           | SSTDCCC0.4       | BN035731.D     | 12/20/2024       | 08:04            |
| BPOW6-11-20241212MS  | P5280-04MS       | BN035735.D     | 12/20/2024       | 11:05            |
| BPOW6-11-20241212MSD | P5280-05MSD      | BN035736.D     | 12/20/2024       | 11:41            |
| SSTDCCC0.4EC         | SSTDCCC0.4       | BN035747.D     | 12/20/2024       | 18:18            |



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: TETR06Lab Code: CHEMSAS No.: P5284SDG NO.: P5284Lab File ID: BN035748.DDFTPP Injection Date: 12/20/2024Instrument ID: BNA\_NDFTPP Injection Time: 18:54

| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 51  | 10.0 - 80.0% of mass 198           | 21.2                 |
| 68  | Less than 2.0% of mass 69          | 0.0 ( 0.0 ) 1        |
| 69  | Mass 69 relative abundance         | 30                   |
| 70  | Less than 2.0% of mass 69          | 0.1 ( 0.5 ) 1        |
| 127 | 10.0 - 80.0% of mass 198           | 37.7                 |
| 197 | Less than 2.0% of mass 198         | 0.0                  |
| 198 | Base Peak, 100% relative abundance | 100                  |
| 199 | 5.0 to 9.0% of mass 198            | 7                    |
| 275 | 10.0 - 60.0% of mass 198           | 29.5                 |
| 365 | Greater than 1% of mass 198        | 4                    |
| 441 | Present, but less than mass 443    | 13.1                 |
| 442 | Greater than 50% of mass 198       | 100                  |
| 443 | 15.0 - 24.0% of mass 442           | 15.3 (19.1) 2        |

1-Value is % mass 69

2-Value is % mass 442

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

| EPA<br>SAMPLE NO.  | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE<br>ANALYZED | TIME<br>ANALYZED |
|--------------------|------------------|----------------|------------------|------------------|
| SSTDCCC0.4         | SSTDCCC0.4       | BN035749.D     | 12/20/2024       | 19:33            |
| RW5-SP201-20241212 | P5284-02         | BN035762.D     | 12/21/2024       | 03:22            |
| RW5-SP303-20241212 | P5284-03         | BN035763.D     | 12/21/2024       | 03:58            |
| SSTDCCC0.4EC       | SSTDCCC0.4       | BN035765.D     | 12/21/2024       | 05:10            |





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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: TETR06Lab Code: CHEMSAS No.: P5284 SDG NO.: P5284Lab File ID: BN035793.DDFTPP Injection Date: 12/23/2024Instrument ID: BNA\_NDFTPP Injection Time: 20:26

| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 51  | 10.0 - 80.0% of mass 198           | 23.2                 |
| 68  | Less than 2.0% of mass 69          | 0.0 ( 0.0 ) 1        |
| 69  | Mass 69 relative abundance         | 32.6                 |
| 70  | Less than 2.0% of mass 69          | 0.2 ( 0.6 ) 1        |
| 127 | 10.0 - 80.0% of mass 198           | 39.9                 |
| 197 | Less than 2.0% of mass 198         | 0.0                  |
| 198 | Base Peak, 100% relative abundance | 100                  |
| 199 | 5.0 to 9.0% of mass 198            | 6.8                  |
| 275 | 10.0 - 60.0% of mass 198           | 26.6                 |
| 365 | Greater than 1% of mass 198        | 3.7                  |
| 441 | Present, but less than mass 443    | 11.1                 |
| 442 | Greater than 50% of mass 198       | 100                  |
| 443 | 15.0 - 24.0% of mass 442           | 13.8 (22.6) 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       | BN035794.D     | 12/23/2024       | 22:16            |
| PB165667BL         | PB165667BL       | BN035795.D     | 12/23/2024       | 22:52            |
| RW5-SP100-20241212 | P5284-01         | BN035805.D     | 12/24/2024       | 04:47            |
| PB165667BS         | PB165667BS       | BN035808.D     | 12/24/2024       | 06:34            |
| SSTDCCC0.4EC       | SSTDCCC0.4       | BN035809.D     | 12/24/2024       | 07:09            |



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: TETR06Lab Code: CHEMSAS No.: P5284SDG NO.: P5284Lab File ID: BN035844.DDFTPP Injection Date: 12/26/2024Instrument ID: BNA\_NDFTPP Injection Time: 09:19

| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 51  | 10.0 - 80.0% of mass 198           | 24                   |
| 68  | Less than 2.0% of mass 69          | 0.2 ( 0.6 ) 1        |
| 69  | Mass 69 relative abundance         | 32.9                 |
| 70  | Less than 2.0% of mass 69          | 0.2 ( 0.5 ) 1        |
| 127 | 10.0 - 80.0% of mass 198           | 40                   |
| 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           | 27.1                 |
| 365 | Greater than 1% of mass 198        | 3.9                  |
| 441 | Present, but less than mass 443    | 11.5                 |
| 442 | Greater than 50% of mass 198       | 100                  |
| 443 | 15.0 - 24.0% of mass 442           | 14.1 (20.5) 2        |

1-Value is % mass 69

2-Value is % mass 442

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

| EPA<br>SAMPLE NO.    | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE<br>ANALYZED | TIME<br>ANALYZED |
|----------------------|------------------|----------------|------------------|------------------|
| SSTDCCC0.4           | SSTDCCC0.4       | BN035845.D     | 12/26/2024       | 09:58            |
| RW5-SP100-20241212DL | P5284-01DL       | BN035859.D     | 12/26/2024       | 18:29            |
| SSTDCCC0.4EC         | SSTDCCC0.4       | BN035861.D     | 12/26/2024       | 19:41            |

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P5284 SAS No.: P5284 SDG NO.: P5284

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 12/20/2024

Lab File ID: BN035731.D Time Analyzed: 08:04

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             | 3239                | 7.271 | 8431                | 10.02 | 5341                | 13.92  |
| UPPER LIMIT             | 6478                | 7.771 | 16862               | 10.52 | 10682               | 14.424 |
| LOWER LIMIT             | 1619.5              | 6.771 | 4215.5              | 9.52  | 2670.5              | 13.424 |
| EPA SAMPLE NO.          |                     |       |                     |       |                     |        |
| 01 BPOW6-11-20241212MS  | 3051                | 7.27  | 8358                | 10.01 | 5197                | 13.92  |
| 02 BPOW6-11-20241212MSD | 3357                | 7.27  | 9243                | 10.01 | 5773                | 13.92  |

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.: P5284 SAS No.: P5284 SDG NO.: P5284

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 12/20/2024

Lab File ID: BN035731.D Time Analyzed: 08:04

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             | 10575               | 16.698 | 8878                | 20.956 | 9229                | 23.038 |
| UPPER LIMIT             | 21150               | 17.198 | 17756               | 21.456 | 18458               | 23.538 |
| LOWER LIMIT             | 5287.5              | 16.198 | 4439                | 20.456 | 4614.5              | 22.538 |
| EPA SAMPLE NO.          |                     |        |                     |        |                     |        |
| 01 BPOW6-11-20241212MS  | 10502               | 16.70  | 9278                | 20.95  | 9467                | 23.04  |
| 02 BPOW6-11-20241212MSD | 12117               | 16.70  | 11029               | 20.95  | 11370               | 23.04  |

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

\* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P5284 SAS No.: P5284 SDG NO.: P5284

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 12/20/2024

Lab File ID: BN035749.D Time Analyzed: 19:33

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           | 2885                | 7.272 | 7460                | 10.01  | 4592                | 13.93  |
| UPPER LIMIT           | 5770                | 7.772 | 14920               | 10.509 | 9184                | 14.425 |
| LOWER LIMIT           | 1442.5              | 6.772 | 3730                | 9.509  | 2296                | 13.425 |
| EPA SAMPLE NO.        |                     |       |                     |        |                     |        |
| 01 RW5-SP201-20241212 | 2707                | 7.27  | 6635                | 10.02  | 4389                | 13.94  |
| 02 RW5-SP303-20241212 | 2594                | 7.27  | 6365                | 10.02  | 4185                | 13.94  |

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.: P5284 SAS No.: P5284 SDG NO.: P5284

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 12/20/2024

Lab File ID: BN035749.D Time Analyzed: 19:33

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           | 9182                | 16.698 | 7719                | 20.956 | 7943                | 23.038 |
| UPPER LIMIT           | 18364               | 17.198 | 15438               | 21.456 | 15886               | 23.538 |
| LOWER LIMIT           | 4591                | 16.198 | 3859.5              | 20.456 | 3971.5              | 22.538 |
| EPA SAMPLE NO.        |                     |        |                     |        |                     |        |
| 01 RW5-SP201-20241212 | 8477                | 16.71  | 6852                | 20.96  | 6936                | 23.04  |
| 02 RW5-SP303-20241212 | 7931                | 16.71  | 6332                | 20.96  | 6481                | 23.04  |

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

\* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P5284 SAS No.: P5284 SDG NO.: P5284

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 12/23/2024

Lab File ID: BN035794.D Time Analyzed: 22:16

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           | 3234                | 7.264 | 7877                | 10.01  | 4482                | 13.92  |
| UPPER LIMIT           | 6468                | 7.764 | 15754               | 10.509 | 8964                | 14.424 |
| LOWER LIMIT           | 1617                | 6.764 | 3938.5              | 9.509  | 2241                | 13.424 |
| EPA SAMPLE NO.        |                     |       |                     |        |                     |        |
| 01 RW5-SP100-20241212 | 3703                | 7.27  | 8793                | 10.01  | 5556                | 13.93  |
| 02 PB165667BL         | 4926                | 7.26  | 11442               | 10.01  | 7253                | 13.92  |
| 03 PB165667BS         | 4067                | 7.26  | 9754                | 10.01  | 5527                | 13.91  |

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.: P5284 SAS No.: P5284 SDG NO.: P5284

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 12/23/2024

Lab File ID: BN035794.D Time Analyzed: 22:16

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           | 8845                | 16.698 | 7163                | 20.947 | 7277                | 23.032 |
| UPPER LIMIT           | 17690               | 17.198 | 14326               | 21.447 | 14554               | 23.532 |
| LOWER LIMIT           | 4422.5              | 16.198 | 3581.5              | 20.447 | 3638.5              | 22.532 |
| EPA SAMPLE NO.        |                     |        |                     |        |                     |        |
| 01 RW5-SP100-20241212 | 10032               | 16.70  | 7300                | 20.95  | 6598                | 23.04  |
| 02 PB165667BL         | 12605               | 16.71  | 9944                | 20.96  | 9785                | 23.04  |
| 03 PB165667BS         | 10920               | 16.70  | 9467                | 20.95  | 9435                | 23.03  |

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

\* Values outside of QC limits.



8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P5284 SAS No.: P5284 SDG NO.: P5284

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 12/26/2024

Lab File ID: BN035845.D Time Analyzed: 09:58

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             | 3755                | 7.257 | 9322                | 10.00  | 5387                | 13.91  |
| UPPER LIMIT             | 7510                | 7.757 | 18644               | 10.499 | 10774               | 14.414 |
| LOWER LIMIT             | 1877.5              | 6.757 | 4661                | 9.499  | 2693.5              | 13.414 |
| EPA SAMPLE NO.          |                     |       |                     |        |                     |        |
| 01 RW5-SP100-20241212DL | 2451                | 7.26  | 5536                | 10.01  | 3750                | 13.92  |

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.: P5284 SAS No.: P5284 SDG NO.: P5284

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 12/26/2024

Lab File ID: BN035845.D Time Analyzed: 09:58

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             | 11262               | 16.686 | 9932                | 20.938 | 10817               | 23.021 |
| UPPER LIMIT             | 22524               | 17.186 | 19864               | 21.438 | 21634               | 23.521 |
| LOWER LIMIT             | 5631                | 16.186 | 4966                | 20.438 | 5408.5              | 22.521 |
| EPA SAMPLE NO.          |                     |        |                     |        |                     |        |
| 01 RW5-SP100-20241212DL | 8150                | 16.70  | 6332                | 20.95  | 5817                | 23.03  |

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

\* Values outside of QC limits.



# SAMPLE DATA

## Report of Analysis

|                    |                      |                  |                 |                |
|--------------------|----------------------|------------------|-----------------|----------------|
| Client:            | Tetra Tech NUS, Inc. |                  | Date Collected: | 12/12/24       |
| Project:           | CTO WE13             |                  | Date Received:  | 12/13/24       |
| Client Sample ID:  | RW5-SP100-20241212   |                  | SDG No.:        | P5284          |
| Lab Sample ID:     | P5284-01             |                  | Matrix:         | Water          |
| Analytical Method: | SW8270ESIM           |                  | % Solid:        | 0              |
| Sample Wt/Vol:     | 1000                 | Units: mL        | Final Vol:      | 1000 uL        |
| Soil Aliquot Vol:  |                      | uL               | Test:           | SVOC-SIMGroup1 |
| Extraction Type :  |                      | Decanted : N     | Level :         | LOW            |
| Injection Volume : |                      | GPC Factor : 1.0 | GPC Cleanup :   | N PH :         |
| Prep Method :      |                      |                  |                 |                |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BN035805.D        | 1         | 12/16/24 11:30 | 12/24/24 04:47 | PB165667      |

| CAS Number                | Parameter               | Conc. | Qualifier | MDL      | LOD  | LOQ / CRQL | Units    |
|---------------------------|-------------------------|-------|-----------|----------|------|------------|----------|
| <b>TARGETS</b>            |                         |       |           |          |      |            |          |
| 123-91-1                  | 1,4-Dioxane             | 9.60  | E         | 0.070    | 0.20 | 0.20       | ug/L     |
| <b>SURROGATES</b>         |                         |       |           |          |      |            |          |
| 7297-45-2                 | 2-Methylnaphthalene-d10 | 0.41  |           | 30 - 150 |      | 101%       | SPK: 0.4 |
| 93951-69-0                | Fluoranthene-d10        | 0.46  |           | 30 - 150 |      | 114%       | SPK: 0.4 |
| 4165-60-0                 | Nitrobenzene-d5         | 0.49  | *         | 55 - 111 |      | 123%       | SPK: 0.4 |
| 321-60-8                  | 2-Fluorobiphenyl        | 0.42  |           | 53 - 106 |      | 106%       | SPK: 0.4 |
| 1718-51-0                 | Terphenyl-d14           | 0.68  | *         | 58 - 132 |      | 169%       | SPK: 0.4 |
| <b>INTERNAL STANDARDS</b> |                         |       |           |          |      |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4  | 3700  |           | 7.265    |      |            |          |
| 1146-65-2                 | Naphthalene-d8          | 8790  |           | 10.009   |      |            |          |
| 15067-26-2                | Acenaphthene-d10        | 5560  |           | 13.925   |      |            |          |
| 1517-22-2                 | Phenanthrene-d10        | 10000 |           | 16.698   |      |            |          |
| 1719-03-5                 | Chrysene-d12            | 7300  |           | 20.947   |      |            |          |
| 1520-96-3                 | Perylene-d12            | 6600  |           | 23.035   |      |            |          |

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\BN122324\  
 Data File : BN035805.D  
 Acq On : 24 Dec 2024 04:47  
 Operator : RC/JU  
 Sample : P5284-01  
 Misc :  
 ALS Vial : 87 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 RW5-SP100-20241212

Manual Integrations  
**APPROVED**

Reviewed By :Yogesh Patel 12/24/2024  
 Supervised By :mohammad ahmed 12/26/2024

Quant Time: Dec 24 05:31:51 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Dec 19 23:06:19 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.265  | 152  | 3703     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.009 | 136  | 8793     | 0.400 | ng    | -0.01    |
| 13) Acenaphthene-d10          | 13.925 | 164  | 5556     | 0.400 | ng    | -0.01    |
| 19) Phenanthrene-d10          | 16.698 | 188  | 10032    | 0.400 | ng    | # 0.00   |
| 29) Chrysene-d12              | 20.947 | 240  | 7300     | 0.400 | ng    | # 0.00   |
| 35) Perylene-d12              | 23.035 | 264  | 6598     | 0.400 | ng    | # 0.00   |
|                               |        |      |          |       |       |          |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 4.932  | 112  | 1185     | 0.128 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.484  | 99   | 673      | 0.060 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.408  | 82   | 2653m    | 0.494 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.616 | 152  | 5575     | 0.405 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.453 | 330  | 790      | 0.200 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.534 | 172  | 8878     | 0.423 | ng    | -0.01    |
| 27) Fluoranthene-d10          | 18.752 | 212  | 13011    | 0.458 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.379 | 244  | 9765     | 0.678 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| Target Compounds              |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 2.974  | 88   | 34090    | 9.630 | ng    | 98       |
| 6) bis(2-Chloroethyl)ether    | 6.723  | 93   | 501      | 0.053 | ng    | # 82     |
| 34) Bis(2-ethylhexyl)phtha... | 20.902 | 149  | 858      | 0.085 | ng    | # 95     |
| -----                         |        |      |          |       |       |          |

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

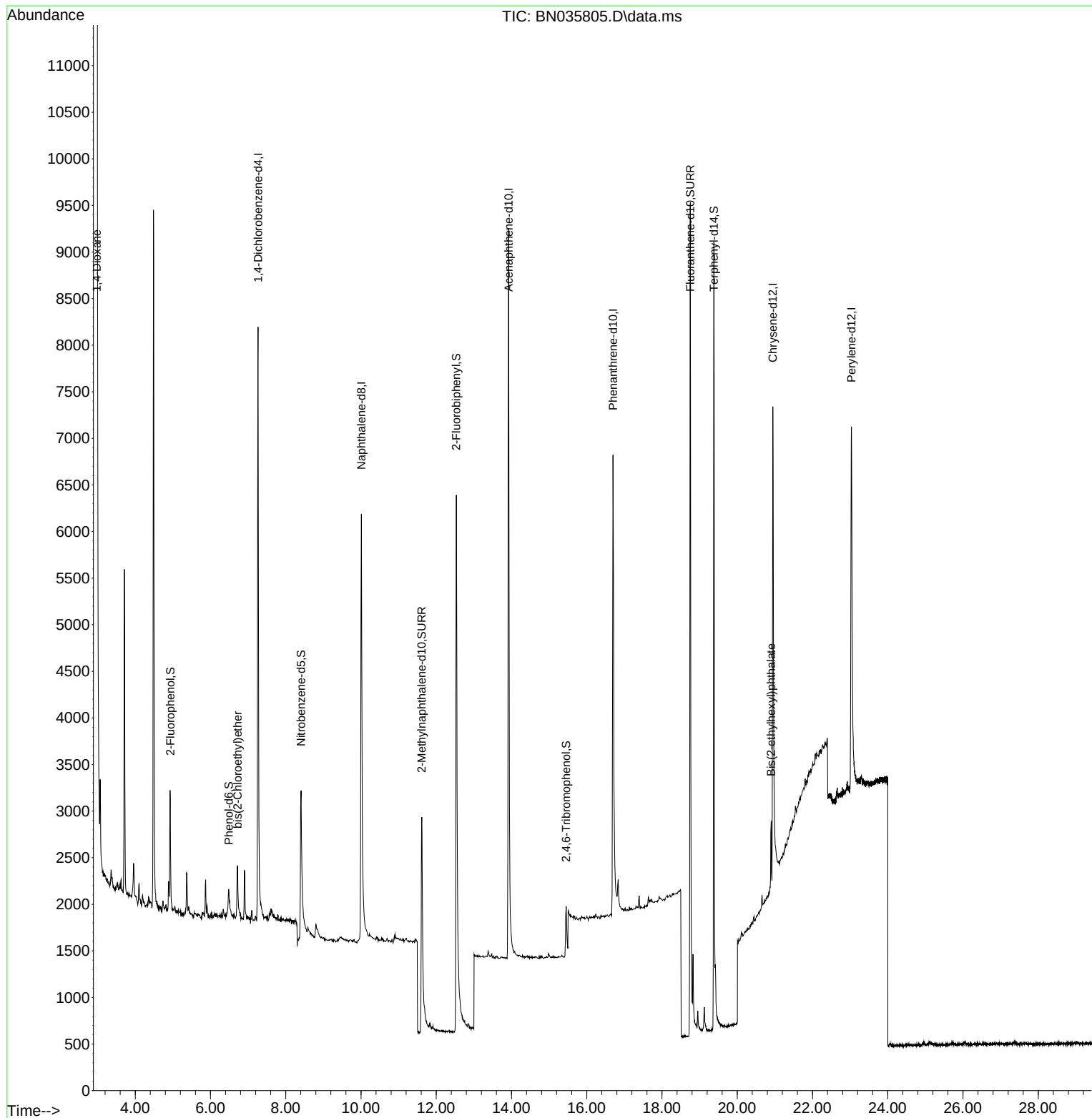
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Data File : BN035805.D  
Acq On : 24 Dec 2024 04:47  
Operator : RC/JU  
Sample : P5284-01  
Misc :  
ALS Vial : 87 Sample Multiplier: 1

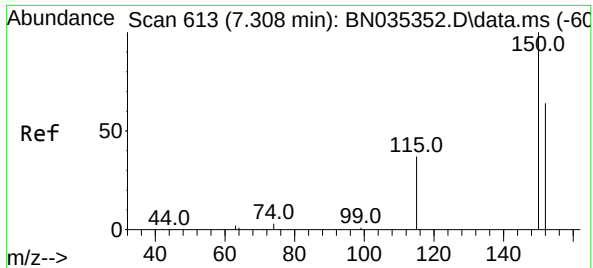
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BNA\_N  
ClientSampleId :  
RW5-SP100-20241212

Manual Integrations  
**APPROVED**

Reviewed By :Yogesh Patel 12/24/2024  
Supervised By :mohammad ahmed 12/26/2024

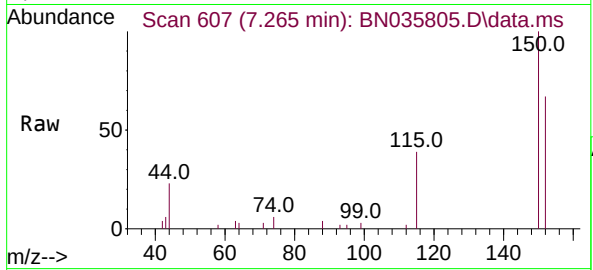
Quant Time: Dec 24 05:31:51 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Dec 19 23:06:19 2024  
Response via : Initial Calibration





#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.265 min Scan# 60  
Delta R.T. -0.008 min  
Lab File: BN035805.D  
Acq: 24 Dec 2024 04:47

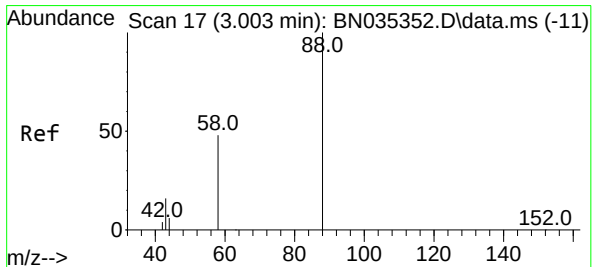
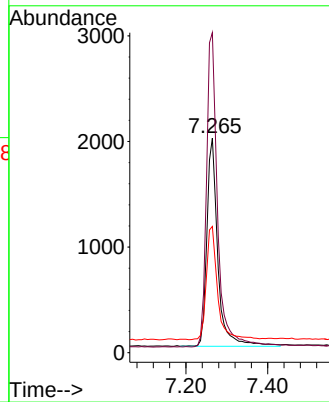
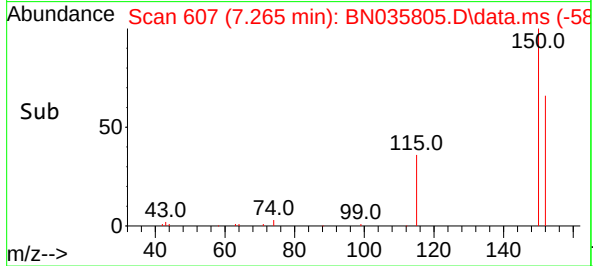
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP100-20241212



Tgt Ion:152 Resp: 370  
Ion Ratio Lower Upper  
152 100  
150 149.1 124.0 186.0  
115 58.8 49.6 74.4

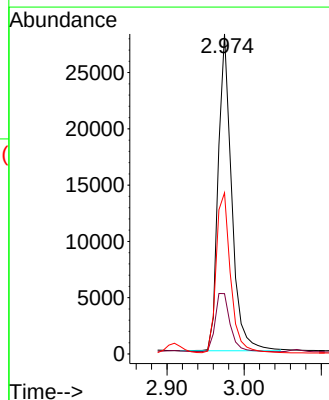
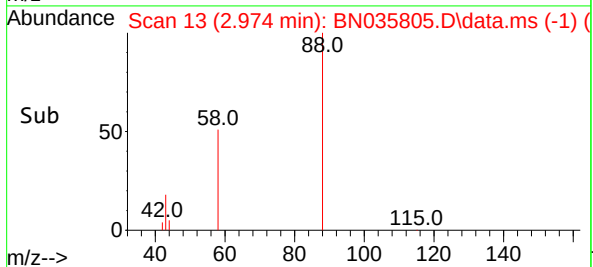
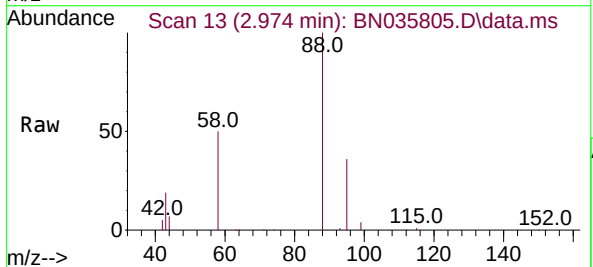
Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 12/24/2024  
Supervised By :mohammad ahmed 12/26/2024

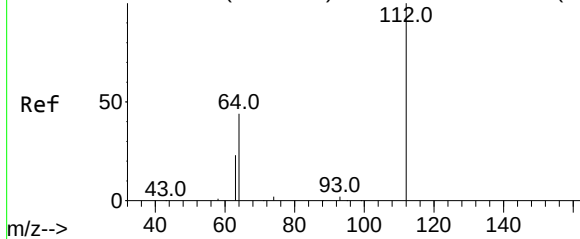


#2  
1,4-Dioxane  
Concen: 9.630 ng  
RT: 2.974 min Scan# 13  
Delta R.T. -0.007 min  
Lab File: BN035805.D  
Acq: 24 Dec 2024 04:47

Tgt Ion: 88 Resp: 34090  
Ion Ratio Lower Upper  
88 100  
43 20.5 17.2 25.8  
58 53.7 44.5 66.7



Abundance Scan 289 (4.968 min): BN035352.D\data.ms (-28



#4

2-Fluorophenol

Concen: 0.128 ng

RT: 4.932 min Scan# 218

Delta R.T. -0.007 min

Lab File: BN035805.D

Acq: 24 Dec 2024 04:47

Instrument :

BNA\_N

ClientSampleId :

RW5-SP100-20241212

Tgt Ion:112 Resp: 118

Ion Ratio Lower Upper

112 100

64 52.2 39.8 59.8

63 28.9 21.0 31.6

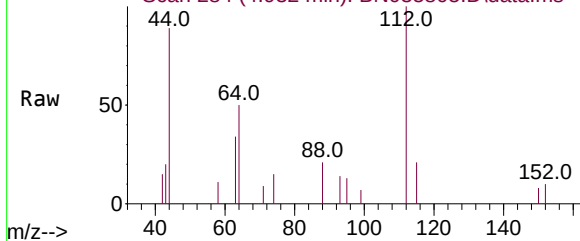
Manual Integrations

APPROVED

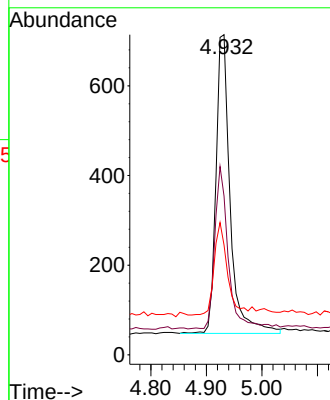
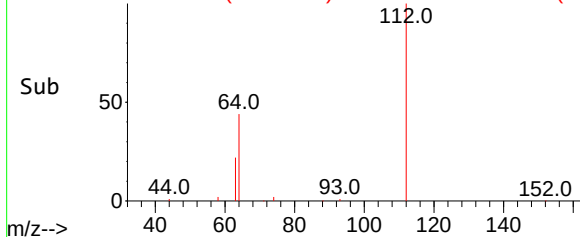
Reviewed By :Yogesh Patel 12/24/2024

Supervised By :mohammad ahmed 12/26/2024

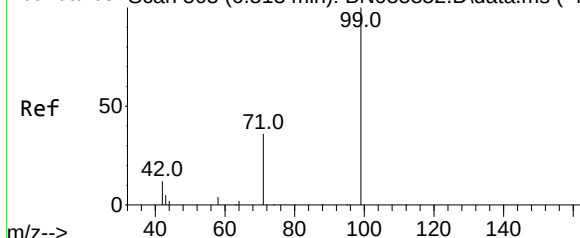
Abundance Scan 284 (4.932 min): BN035805.D\data.ms



Abundance Scan 284 (4.932 min): BN035805.D\data.ms (-25



Abundance Scan 503 (6.513 min): BN035352.D\data.ms (-49



#5

Phenol-d6

Concen: 0.060 ng

RT: 6.484 min Scan# 499

Delta R.T. -0.007 min

Lab File: BN035805.D

Acq: 24 Dec 2024 04:47

Tgt Ion: 99 Resp: 673

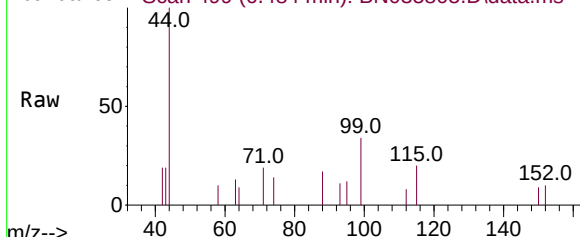
Ion Ratio Lower Upper

99 100

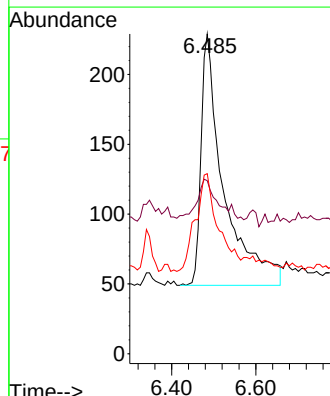
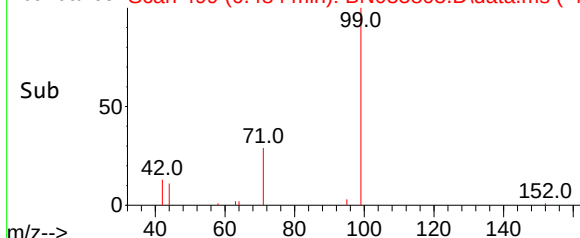
42 16.0 11.4 17.2

71 39.4 29.3 43.9

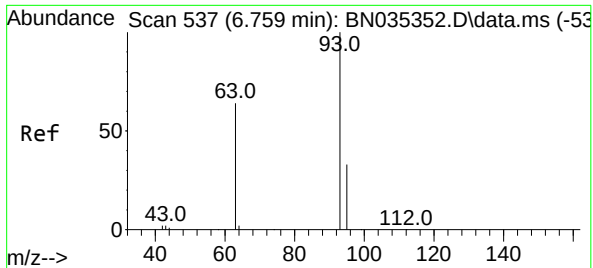
Abundance Scan 499 (6.484 min): BN035805.D\data.ms



Abundance Scan 499 (6.484 min): BN035805.D\data.ms (-47







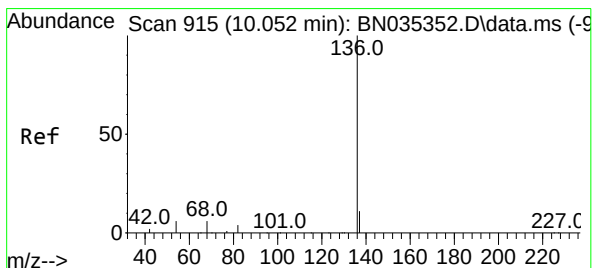
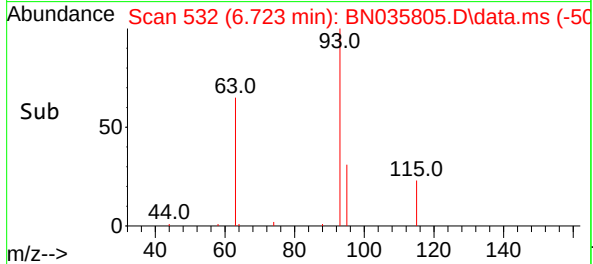
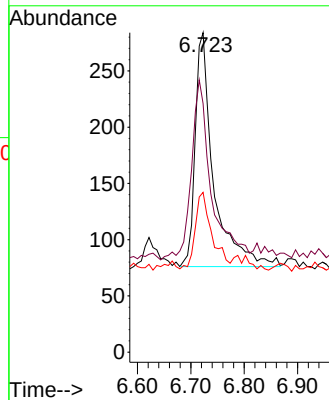
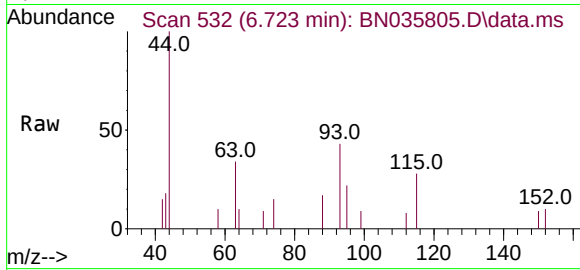
#6  
bis(2-Chloroethyl)ether  
Concen: 0.053 ng  
RT: 6.723 min Scan# 511  
Delta R.T. -0.007 min  
Lab File: BN035805.D  
Acq: 24 Dec 2024 04:47

Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP100-20241212

Tgt Ion: 93 Resp: 50  
Ion Ratio Lower Upper  
93 100  
63 83.2 50.4 75.6  
95 30.9 25.7 38.5

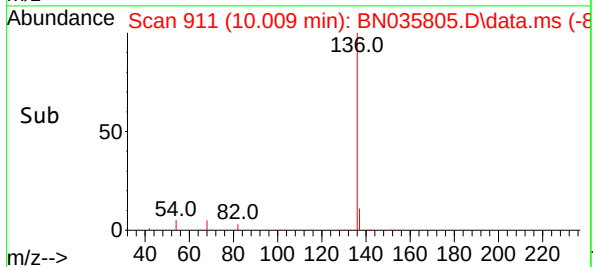
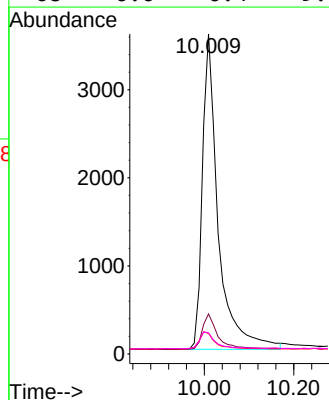
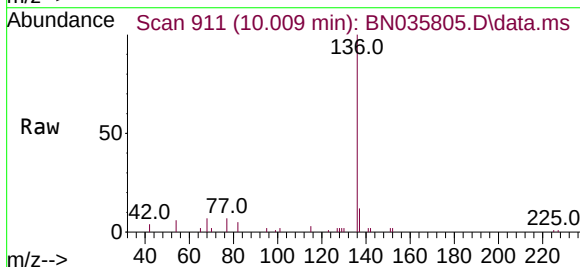
Manual Integrations  
APPROVED

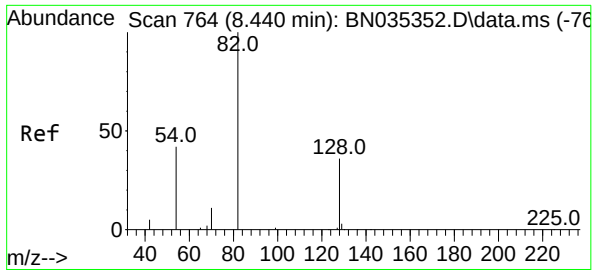
Reviewed By :Yogesh Patel 12/24/2024  
Supervised By :mohammad ahmed 12/26/2024



#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.009 min Scan# 911  
Delta R.T. -0.011 min  
Lab File: BN035805.D  
Acq: 24 Dec 2024 04:47

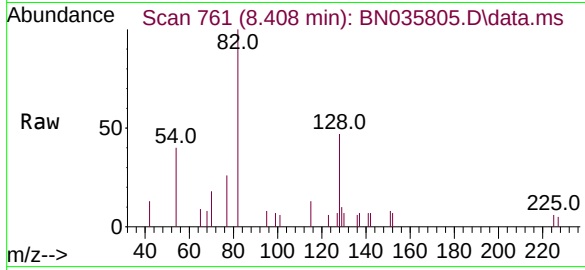
Tgt Ion:136 Resp: 8793  
Ion Ratio Lower Upper  
136 100  
137 12.5 10.2 15.2  
54 6.4 6.1 9.1  
68 6.6 6.4 9.6





#8  
Nitrobenzene-d5  
Concen: 0.494 ng m  
RT: 8.408 min Scan# 761  
Delta R.T. -0.000 min  
Lab File: BN035805.D  
Acq: 24 Dec 2024 04:47

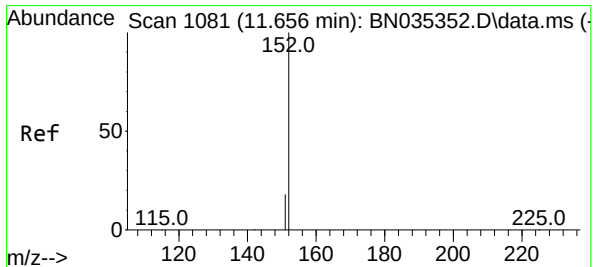
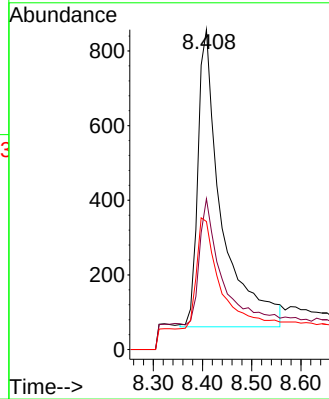
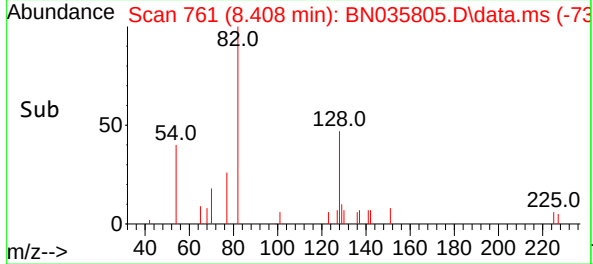
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP100-20241212



Tgt Ion: 82 Resp: 265  
Ion Ratio Lower Upper  
82 100  
128 47.1 33.4 50.0  
54 40.0 36.7 55.1

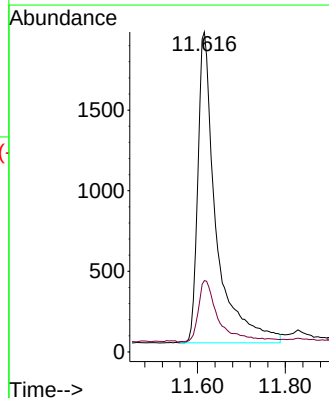
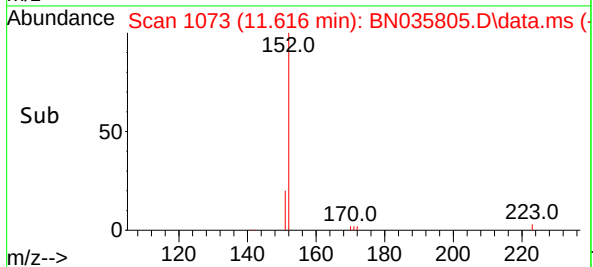
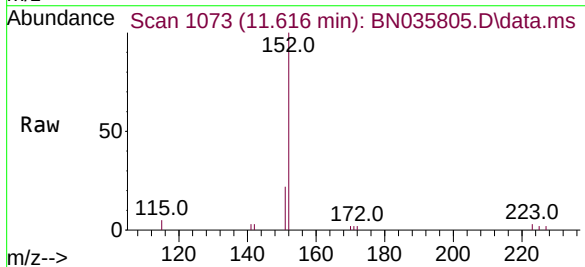
Manual Integrations  
APPROVED

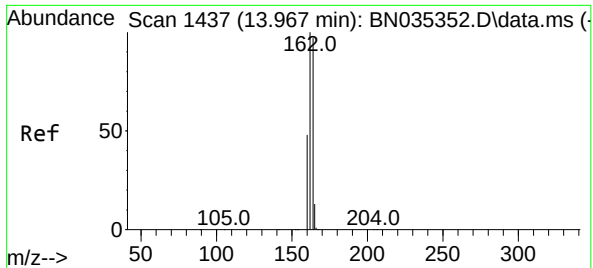
Reviewed By :Yogesh Patel 12/24/2024  
Supervised By :mohammad ahmed 12/26/2024



#11  
2-Methylnaphthalene-d10  
Concen: 0.405 ng  
RT: 11.616 min Scan# 1073  
Delta R.T. -0.005 min  
Lab File: BN035805.D  
Acq: 24 Dec 2024 04:47

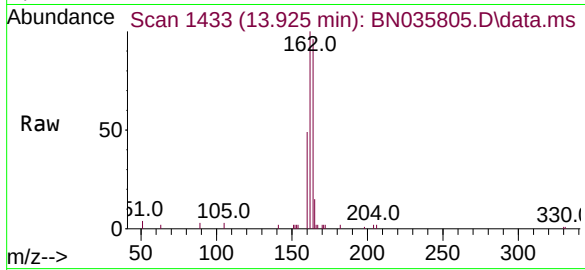
Tgt Ion:152 Resp: 5575  
Ion Ratio Lower Upper  
152 100  
151 21.0 16.6 25.0





#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.925 min Scan# 1437  
Delta R.T. -0.011 min  
Lab File: BN035805.D  
Acq: 24 Dec 2024 04:47

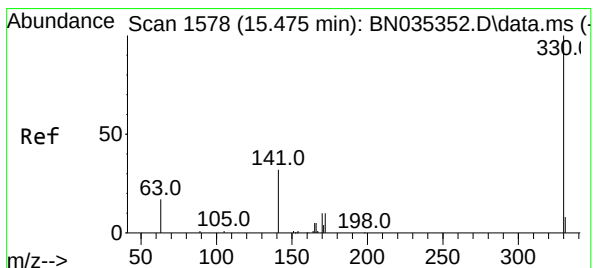
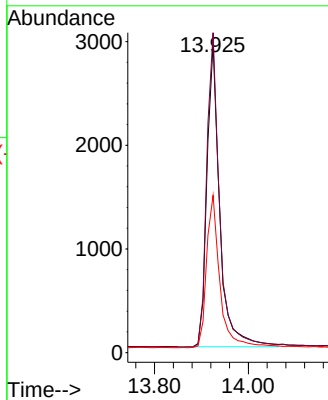
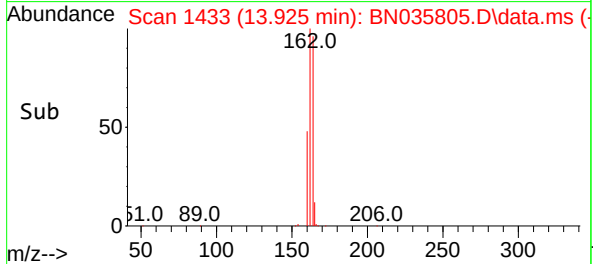
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP100-20241212



Tgt Ion:164 Resp: 555  
Ion Ratio Lower Upper  
164 100  
162 103.8 82.2 123.2  
160 51.0 40.1 60.1

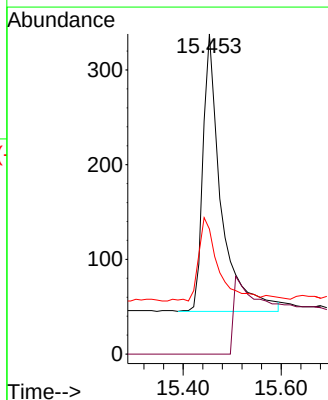
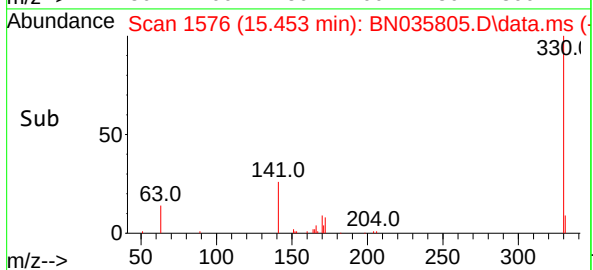
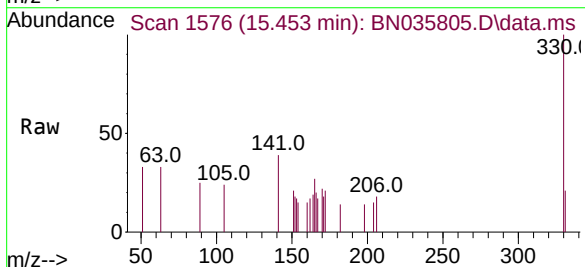
Manual Integrations  
**APPROVED**

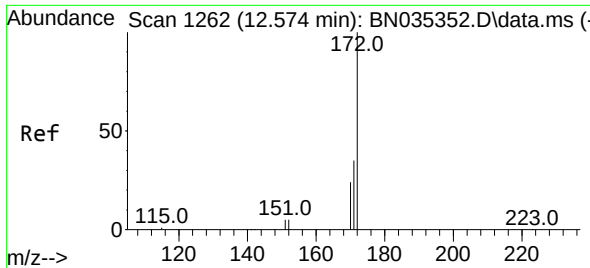
Reviewed By :Yogesh Patel 12/24/2024  
Supervised By :mohammad ahmed 12/26/2024



#14  
2,4,6-Tribromophenol  
Concen: 0.200 ng  
RT: 15.453 min Scan# 1576  
Delta R.T. -0.000 min  
Lab File: BN035805.D  
Acq: 24 Dec 2024 04:47

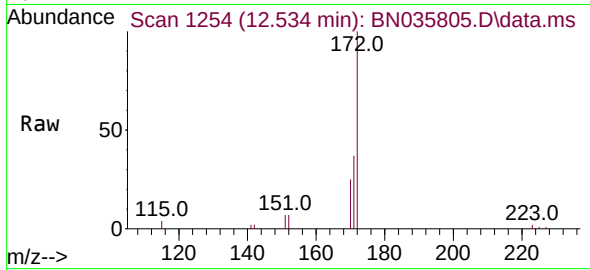
Tgt Ion:330 Resp: 790  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 32.0 26.6 40.0





#15  
2-Fluorobiphenyl  
Concen: 0.423 ng  
RT: 12.534 min Scan# 11  
Delta R.T. -0.010 min  
Lab File: BN035805.D  
Acq: 24 Dec 2024 04:47

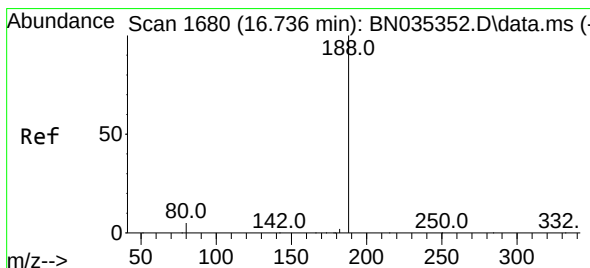
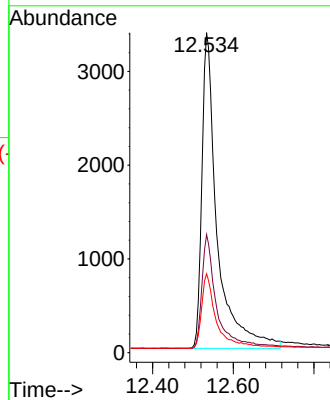
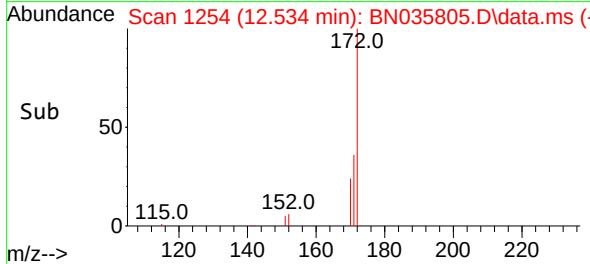
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP100-20241212



Tgt Ion:172 Resp: 8878  
Ion Ratio Lower Upper  
172 100  
171 36.9 29.0 43.4  
170 24.6 19.8 29.8

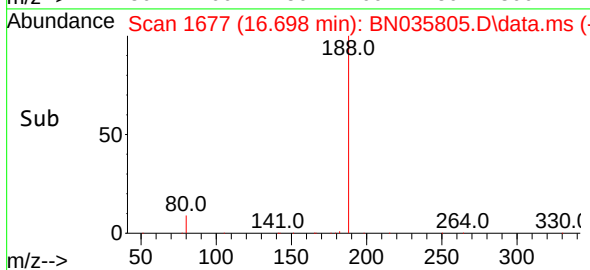
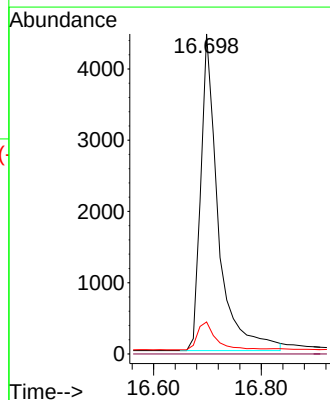
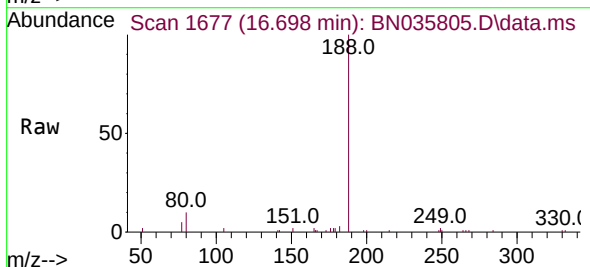
Manual Integrations  
APPROVED

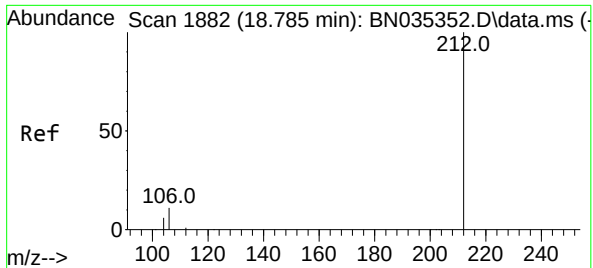
Reviewed By :Yogesh Patel 12/24/2024  
Supervised By :mohammad ahmed 12/26/2024



#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 16.698 min Scan# 1677  
Delta R.T. 0.000 min  
Lab File: BN035805.D  
Acq: 24 Dec 2024 04:47

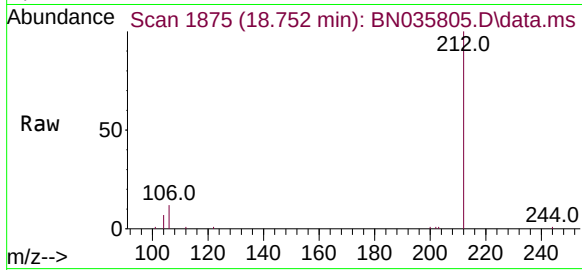
Tgt Ion:188 Resp: 10032  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 10.0 4.6 6.8





#27  
Fluoranthene-d10  
Concen: 0.458 ng  
RT: 18.752 min Scan# 1875  
Delta R.T. -0.009 min  
Lab File: BN035805.D  
Acq: 24 Dec 2024 04:47

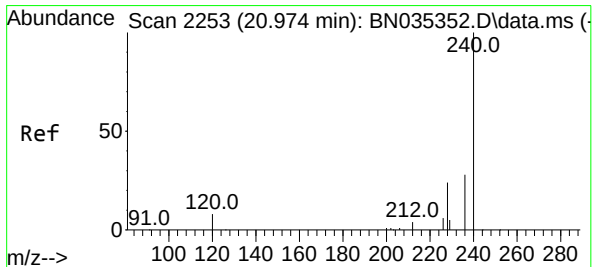
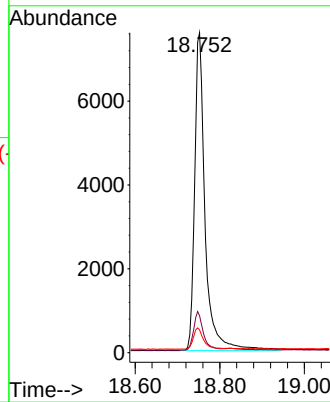
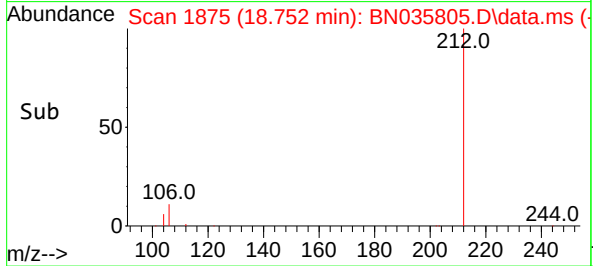
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP100-20241212



Tgt Ion:212 Resp: 1301  
Ion Ratio Lower Upper  
212 100  
106 11.2 9.2 13.8  
104 6.5 5.3 7.9

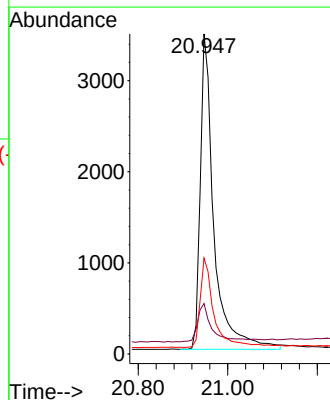
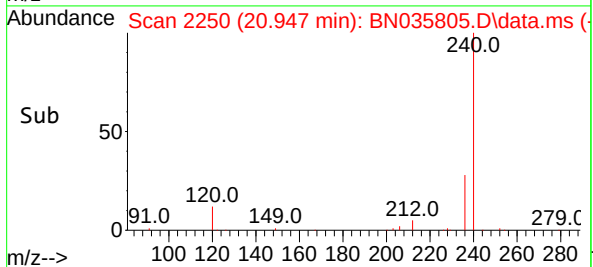
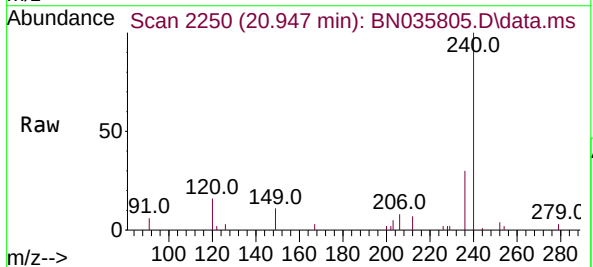
Manual Integrations  
APPROVED

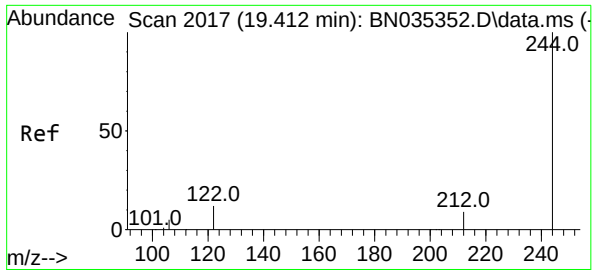
Reviewed By :Yogesh Patel 12/24/2024  
Supervised By :mohammad ahmed 12/26/2024



#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 20.947 min Scan# 2250  
Delta R.T. -0.009 min  
Lab File: BN035805.D  
Acq: 24 Dec 2024 04:47

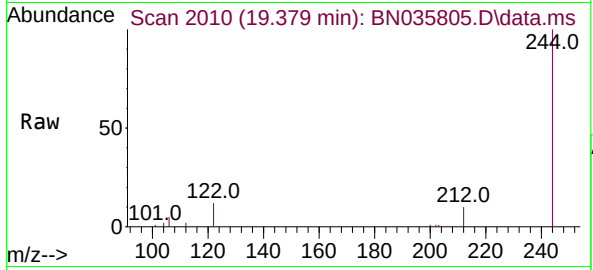
Tgt Ion:240 Resp: 7300  
Ion Ratio Lower Upper  
240 100  
120 15.7 7.9 11.9#  
236 30.0 22.9 34.3





#31  
 Terphenyl-d14  
 Concen: 0.678 ng  
 RT: 19.379 min Scan# 2017  
 Delta R.T. -0.009 min  
 Lab File: BN035805.D  
 Acq: 24 Dec 2024 04:47

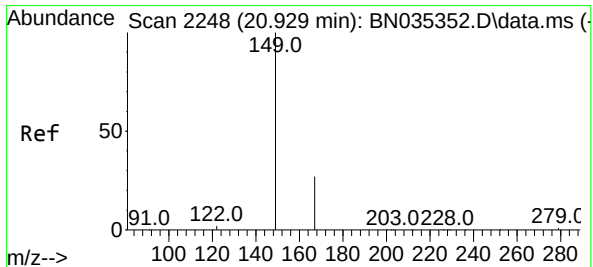
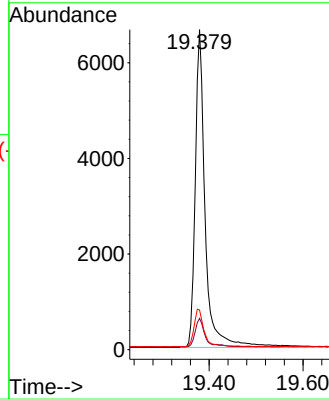
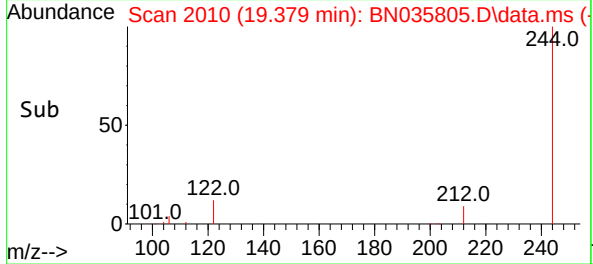
Instrument :  
 BNA\_N  
 ClientSampleId :  
 RW5-SP100-20241212



Tgt Ion:244 Resp: 976  
 Ion Ratio Lower Upper  
 244 100  
 212 9.8 8.1 12.1  
 122 12.4 10.3 15.5

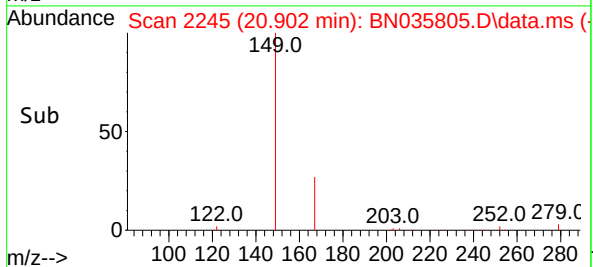
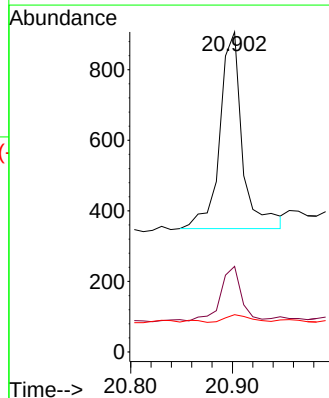
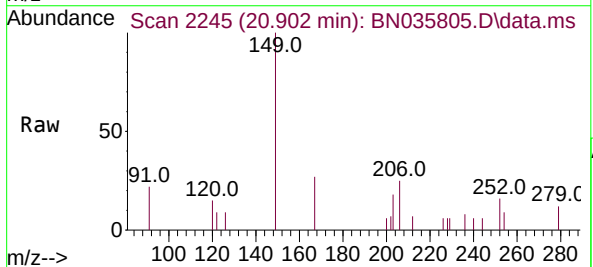
Manual Integrations  
 APPROVED

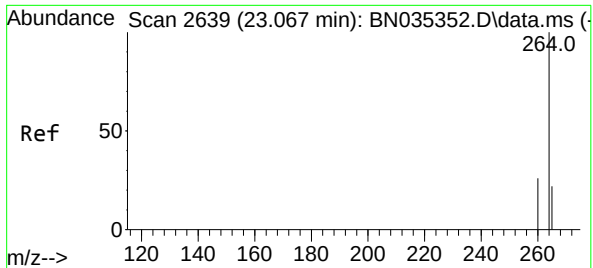
Reviewed By :Yogesh Patel 12/24/2024  
 Supervised By :mohammad ahmed 12/26/2024



#34  
 Bis(2-ethylhexyl)phthalate  
 Concen: 0.085 ng  
 RT: 20.902 min Scan# 2245  
 Delta R.T. -0.009 min  
 Lab File: BN035805.D  
 Acq: 24 Dec 2024 04:47

Tgt Ion:149 Resp: 858  
 Ion Ratio Lower Upper  
 149 100  
 167 25.2 22.2 33.4  
 279 4.4 2.7 4.1#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.035 min Scan# 20

Delta R.T. -0.006 min

Lab File: BN035805.D

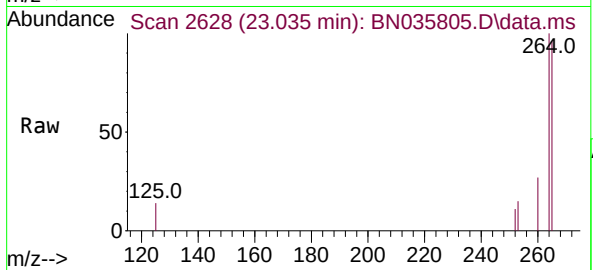
Acq: 24 Dec 2024 04:47

Instrument :

BNA\_N

ClientSampleId :

RW5-SP100-20241212



Tgt Ion:264 Resp: 6598

Ion Ratio Lower Upper

264 100

260 27.2 21.4 32.2

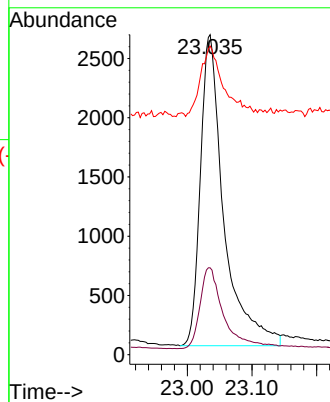
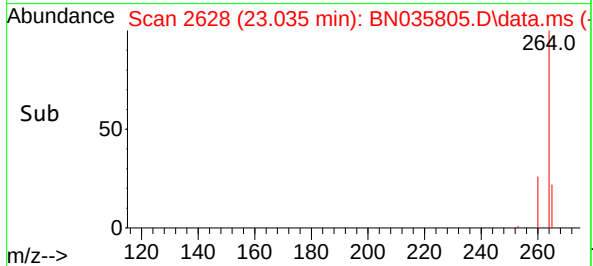
265 96.4 40.2 60.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/24/2024

Supervised By :mohammad ahmed 12/26/2024



## Report of Analysis

|                    |                        |                 |                |
|--------------------|------------------------|-----------------|----------------|
| Client:            | Tetra Tech NUS, Inc.   | Date Collected: | 12/12/24       |
| Project:           | CTO WE13               | Date Received:  | 12/13/24       |
| Client Sample ID:  | RW5-SP100-20241212DL   | SDG No.:        | P5284          |
| Lab Sample ID:     | P5284-01DL             | Matrix:         | Water          |
| Analytical Method: | SW8270ESIM             | % Solid:        | 0              |
| Sample Wt/Vol:     | 1000      Units:    mL | Final Vol:      | 1000      uL   |
| Soil Aliquot Vol:  | uL                     | Test:           | SVOC-SIMGroup1 |
| Extraction Type :  | Decanted :    N        | Level :         | LOW            |
| Injection Volume : | GPC Factor :    1.0    | GPC Cleanup :   | N      PH :    |
| Prep Method :      |                        |                 |                |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BN035859.D        | 5         | 12/16/24 11:30 | 12/26/24 18:29 | PB165667      |

| CAS Number                | Parameter               | Conc. | Qualifier | MDL      | LOD  | LOQ / CRQL | Units    |
|---------------------------|-------------------------|-------|-----------|----------|------|------------|----------|
| <b>TARGETS</b>            |                         |       |           |          |      |            |          |
| 123-91-1                  | 1,4-Dioxane             | 14.9  | D         | 0.34     | 1.00 | 1.00       | ug/L     |
| <b>SURROGATES</b>         |                         |       |           |          |      |            |          |
| 7297-45-2                 | 2-Methylnaphthalene-d10 | 0.56  |           | 30 - 150 |      | 139%       | SPK: 0.4 |
| 93951-69-0                | Fluoranthene-d10        | 0.72  | *         | 30 - 150 |      | 179%       | SPK: 0.4 |
| 4165-60-0                 | Nitrobenzene-d5         | 0.74  | *         | 55 - 111 |      | 185%       | SPK: 0.4 |
| 321-60-8                  | 2-Fluorobiphenyl        | 0.56  | *         | 53 - 106 |      | 139%       | SPK: 0.4 |
| 1718-51-0                 | Terphenyl-d14           | 0.93  | *         | 58 - 132 |      | 231%       | SPK: 0.4 |
| <b>INTERNAL STANDARDS</b> |                         |       |           |          |      |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4  | 2450  |           | 7.257    |      |            |          |
| 1146-65-2                 | Naphthalene-d8          | 5540  |           | 10.009   |      |            |          |
| 15067-26-2                | Acenaphthene-d10        | 3750  |           | 13.924   |      |            |          |
| 1517-22-2                 | Phenanthrene-d10        | 8150  |           | 16.698   |      |            |          |
| 1719-03-5                 | Chrysene-d12            | 6330  |           | 20.947   |      |            |          |
| 1520-96-3                 | Perylene-d12            | 5820  |           | 23.032   |      |            |          |

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\BN122624\  
 Data File : BN035859.D  
 Acq On : 26 Dec 2024 18:29  
 Operator : RC/JU  
 Sample : P5284-01DL 5X  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 RW5-SP100-20241212DL

**Manual Integrations**  
**APPROVED**

Reviewed By :Yogesh Patel 12/27/2024  
 Supervised By :mohammad ahmed 12/27/2024

Quant Time: Dec 27 00:42:22 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Dec 19 23:06:19 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.257  | 152  | 2451     | 0.400 | ng    | -0.01    |
| 7) Naphthalene-d8             | 10.009 | 136  | 5536     | 0.400 | ng    | -0.01    |
| 13) Acenaphthene-d10          | 13.924 | 164  | 3750     | 0.400 | ng    | -0.01    |
| 19) Phenanthrene-d10          | 16.698 | 188  | 8150     | 0.400 | ng    | # 0.00   |
| 29) Chrysene-d12              | 20.947 | 240  | 6332     | 0.400 | ng    | # 0.00   |
| 35) Perylene-d12              | 23.032 | 264  | 5817     | 0.400 | ng    | # 0.00   |
|                               |        |      |          |       |       |          |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 4.924  | 112  | 244      | 0.040 | ng    | -0.01    |
| 5) Phenol-d6                  | 6.477  | 99   | 104      | 0.014 | ng    | -0.01    |
| 8) Nitrobenzene-d5            | 8.429  | 82   | 500m     | 0.148 | ng    | 0.02     |
| 11) 2-Methylnaphthalene-d10   | 11.646 | 152  | 965      | 0.111 | ng    | 0.03     |
| 14) 2,4,6-Tribromophenol      | 15.464 | 330  | 185      | 0.069 | ng    | 0.01     |
| 15) 2-Fluorobiphenyl          | 12.549 | 172  | 1572     | 0.111 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 18.752 | 212  | 3305     | 0.143 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.379 | 244  | 2316     | 0.185 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| Target Compounds              |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 2.974  | 88   | 6977     | 2.978 | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 20.893 | 149  | 400      | 0.046 | ng    | # 90     |
| -----                         |        |      |          |       |       |          |

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

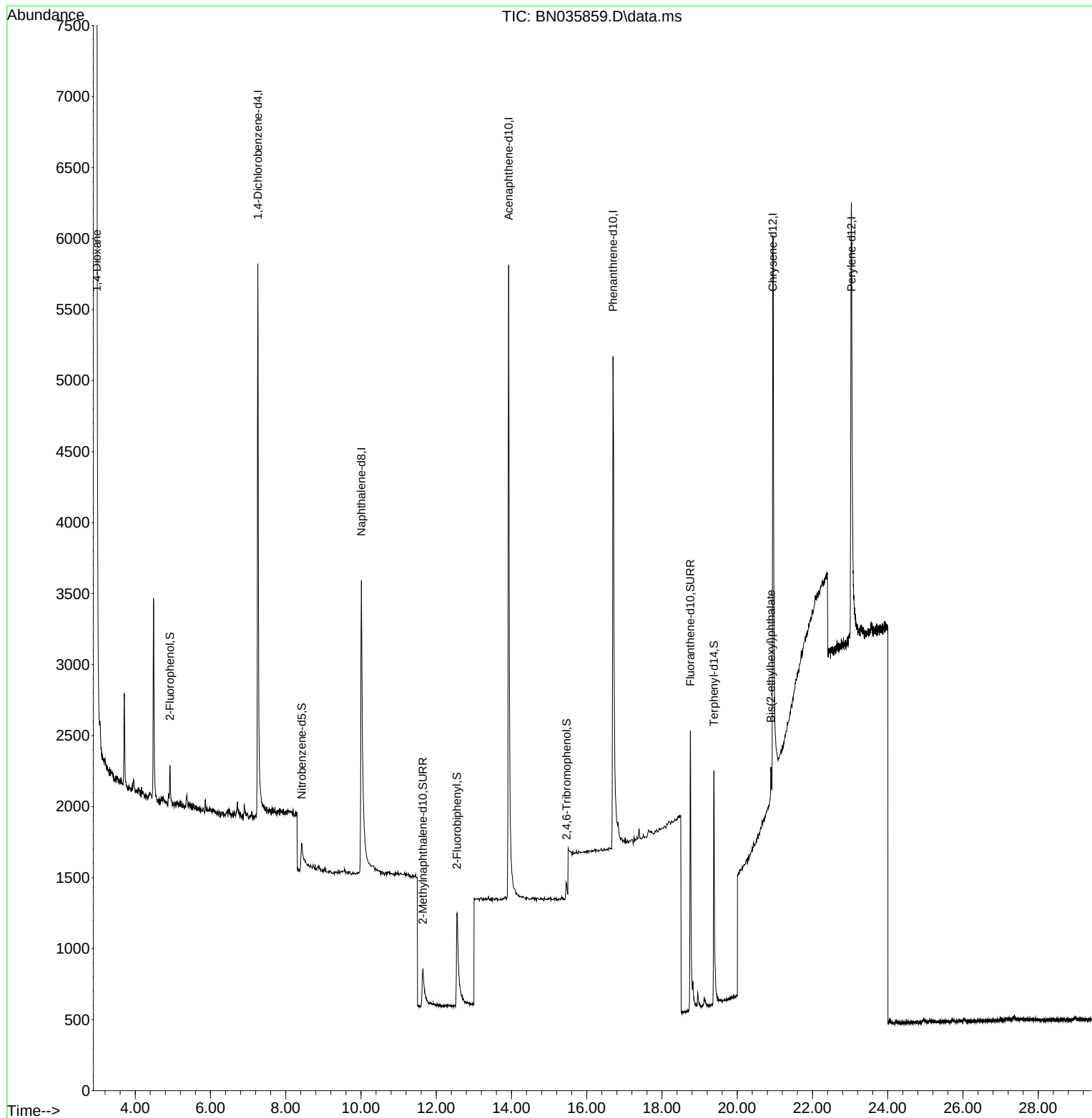
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN122624\  
Data File : BN035859.D  
Acq On : 26 Dec 2024 18:29  
Operator : RC/JU  
Sample : P5284-01DL 5X  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

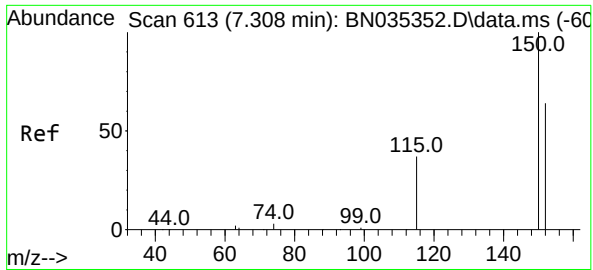
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP100-20241212DL

Manual Integrations  
**APPROVED**

Reviewed By :Yogesh Patel 12/27/2024  
Supervised By :mohammad ahmed 12/27/2024

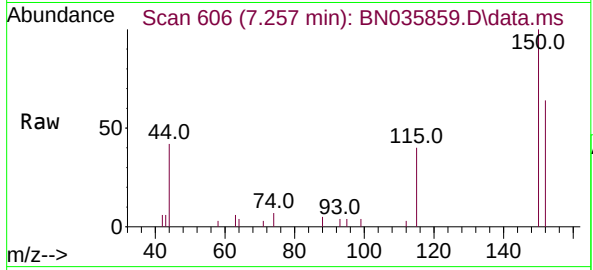
Quant Time: Dec 27 00:42:22 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Dec 19 23:06:19 2024  
Response via : Initial Calibration





#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.257 min Scan# 60  
Delta R.T. -0.015 min  
Lab File: BN035859.D  
Acq: 26 Dec 2024 18:29

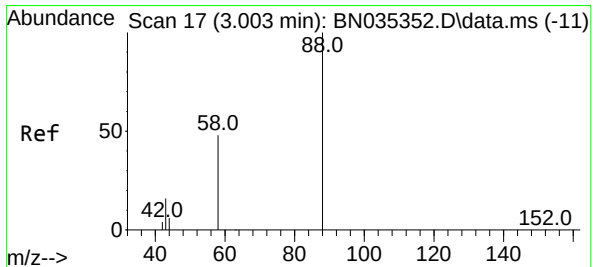
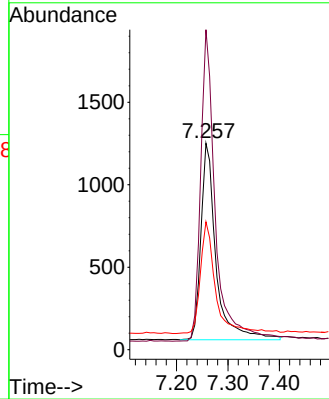
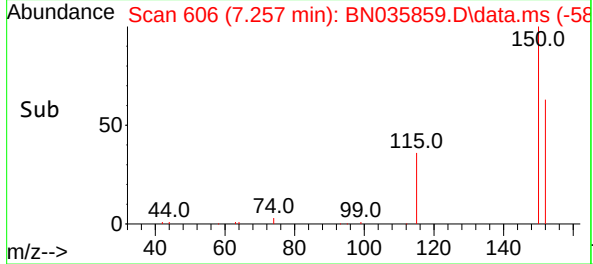
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP100-20241212DL



Tgt Ion:152 Resp: 245  
Ion Ratio Lower Upper  
152 100  
150 155.1 124.0 186.0  
115 62.0 49.6 74.4

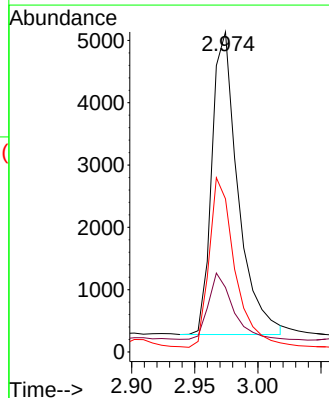
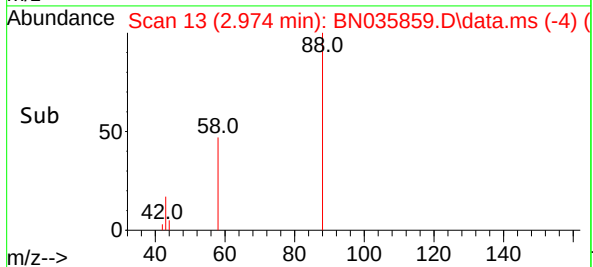
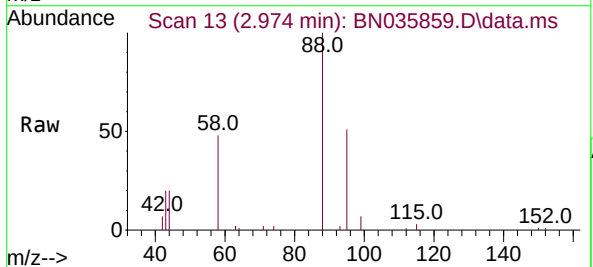
Manual Integrations  
APPROVED

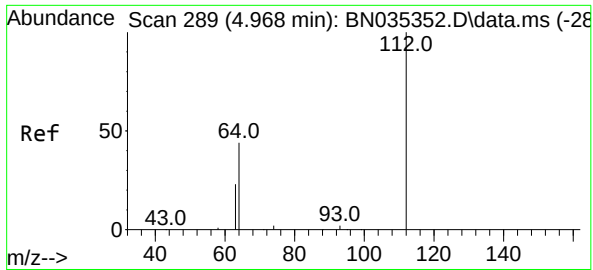
Reviewed By :Yogesh Patel 12/27/2024  
Supervised By :mohammad ahmed 12/27/2024



#2  
1,4-Dioxane  
Concen: 2.978 ng  
RT: 2.974 min Scan# 13  
Delta R.T. -0.008 min  
Lab File: BN035859.D  
Acq: 26 Dec 2024 18:29

Tgt Ion: 88 Resp: 6977  
Ion Ratio Lower Upper  
88 100  
43 20.5 17.2 25.8  
58 54.7 44.5 66.7





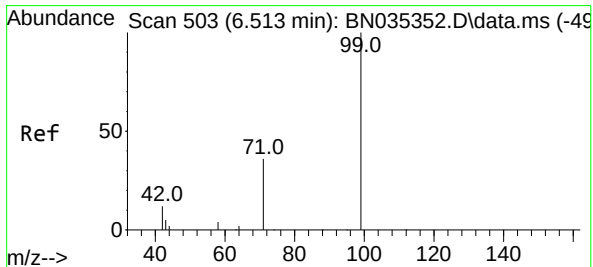
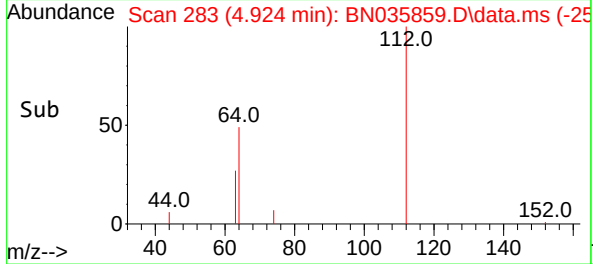
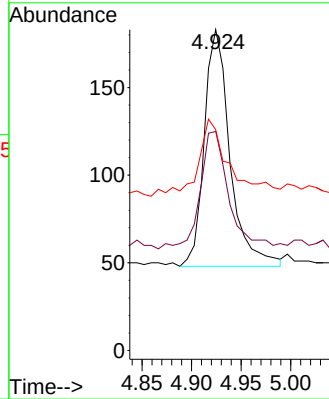
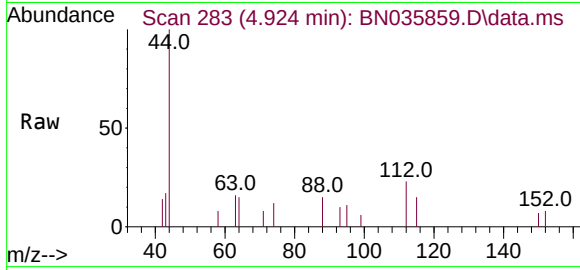
#4  
2-Fluorophenol  
Concen: 0.040 ng  
RT: 4.924 min Scan# 21  
Delta R.T. -0.015 min  
Lab File: BN035859.D  
Acq: 26 Dec 2024 18:29

Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP100-20241212DL

Tgt Ion: 112 Resp: 244  
Ion Ratio Lower Upper  
112 100  
64 55.7 39.8 59.8  
63 40.2 21.0 31.6

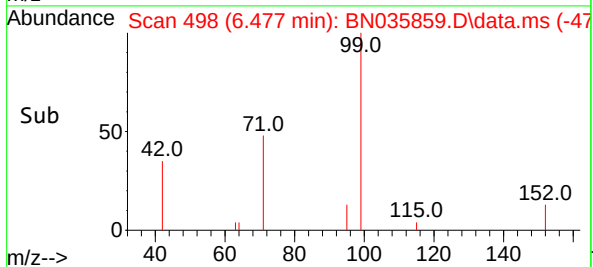
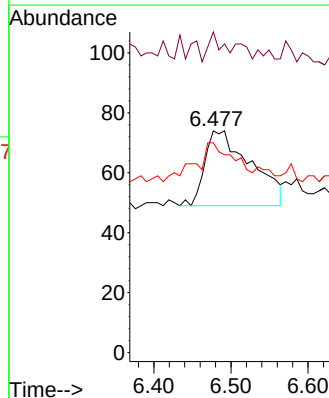
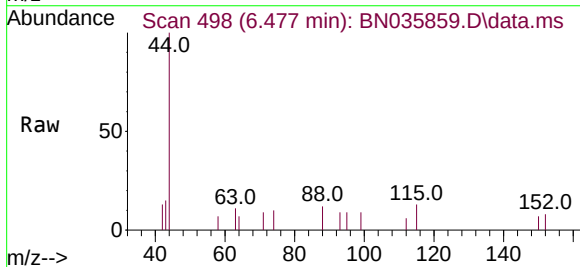
Manual Integrations  
APPROVED

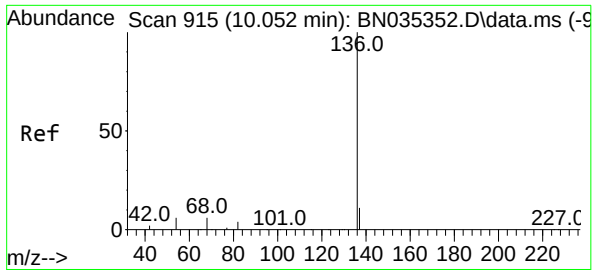
Reviewed By :Yogesh Patel 12/27/2024  
Supervised By :mohammad ahmed 12/27/2024



#5  
Phenol-d6  
Concen: 0.014 ng  
RT: 6.477 min Scan# 498  
Delta R.T. -0.015 min  
Lab File: BN035859.D  
Acq: 26 Dec 2024 18:29

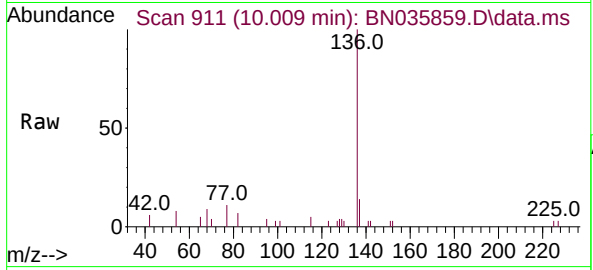
Tgt Ion: 99 Resp: 104  
Ion Ratio Lower Upper  
99 100  
42 11.5 11.4 17.2  
71 43.3 29.3 43.9





#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.009 min Scan# 915  
Delta R.T. -0.011 min  
Lab File: BN035859.D  
Acq: 26 Dec 2024 18:29

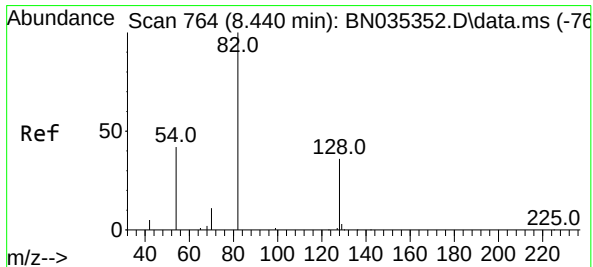
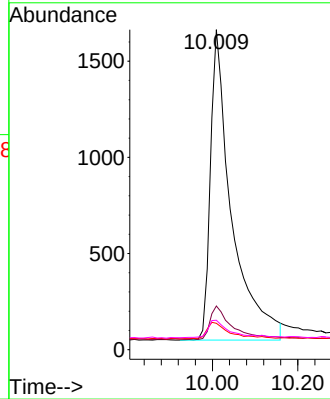
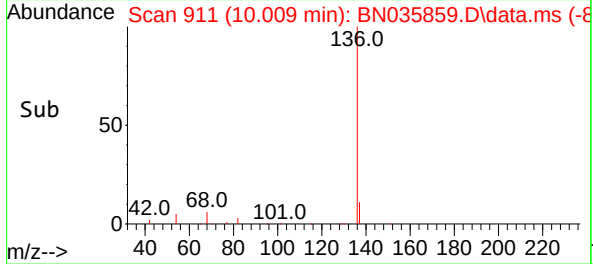
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP100-20241212DL



Tgt Ion: 136 Resp: 5530  
Ion Ratio Lower Upper  
136 100  
137 13.6 10.2 15.2  
54 8.2 6.1 9.1  
68 9.2 6.4 9.6

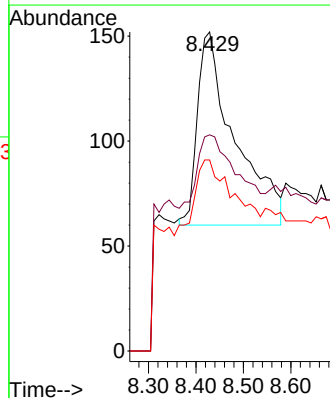
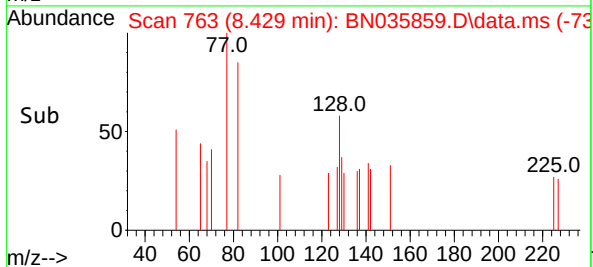
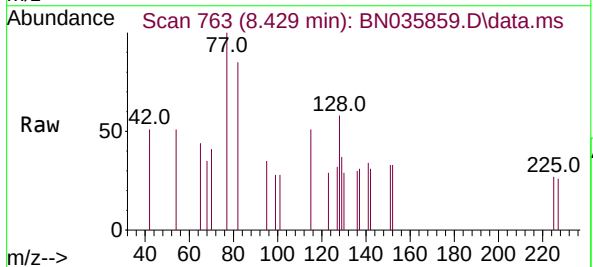
Manual Integrations  
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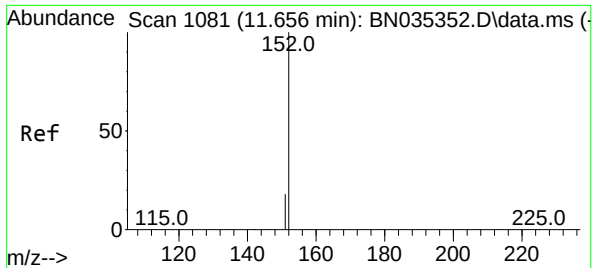
Reviewed By :Yogesh Patel 12/27/2024  
Supervised By :mohammad ahmed 12/27/2024



#8  
Nitrobenzene-d5  
Concen: 0.148 ng m  
RT: 8.429 min Scan# 763  
Delta R.T. 0.021 min  
Lab File: BN035859.D  
Acq: 26 Dec 2024 18:29

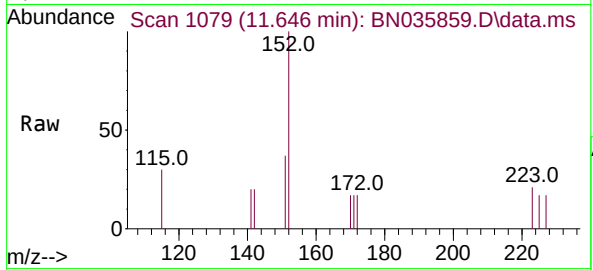
Tgt Ion: 82 Resp: 500  
Ion Ratio Lower Upper  
82 100  
128 67.8 33.4 50.0#  
54 59.9 36.7 55.1#





#11  
2-Methylnaphthalene-d10  
Concen: 0.111 ng  
RT: 11.646 min Scan# 1081  
Delta R.T. 0.025 min  
Lab File: BN035859.D  
Acq: 26 Dec 2024 18:29

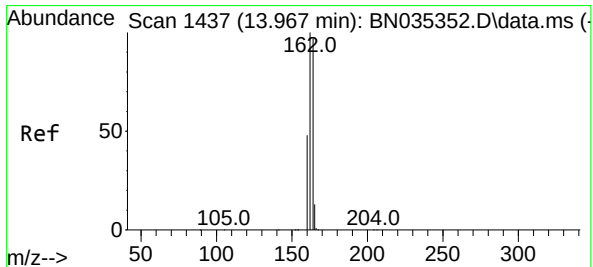
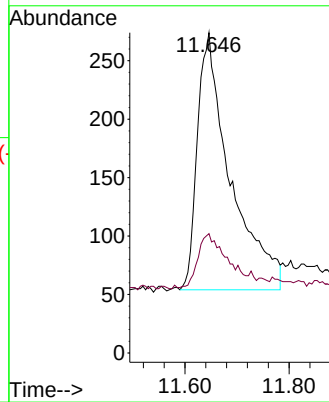
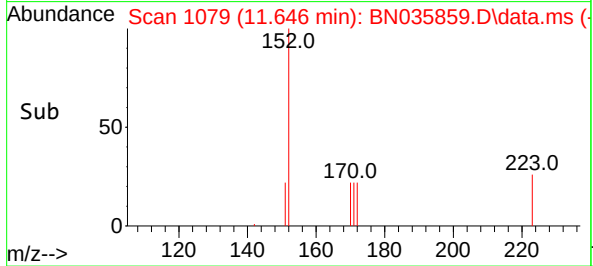
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP100-20241212DL



Tgt Ion:152 Resp: 968  
Ion Ratio Lower Upper  
152 100  
151 18.1 16.6 25.0

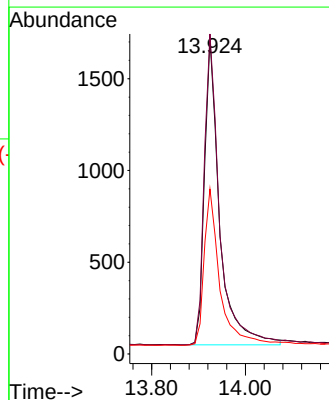
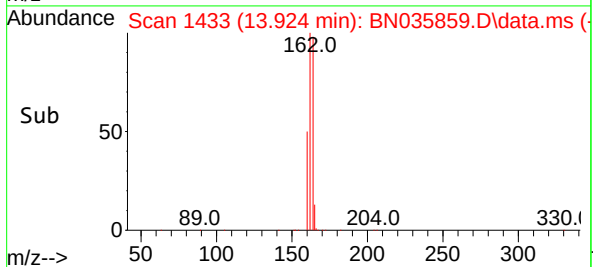
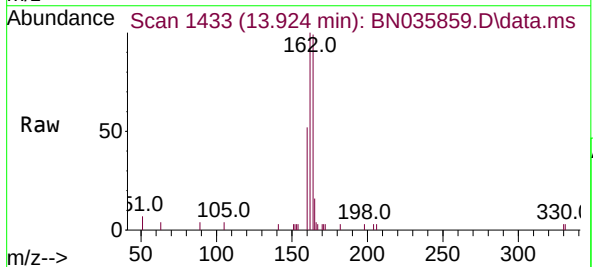
Manual Integrations  
APPROVED

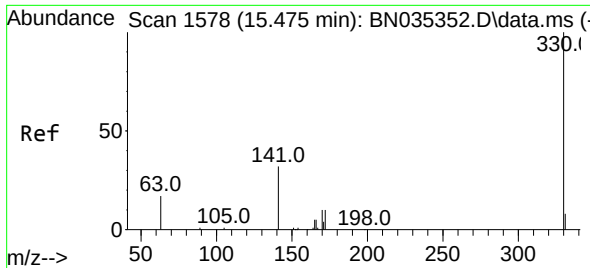
Reviewed By :Yogesh Patel 12/27/2024  
Supervised By :mohammad ahmed 12/27/2024



#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.924 min Scan# 1433  
Delta R.T. -0.011 min  
Lab File: BN035859.D  
Acq: 26 Dec 2024 18:29

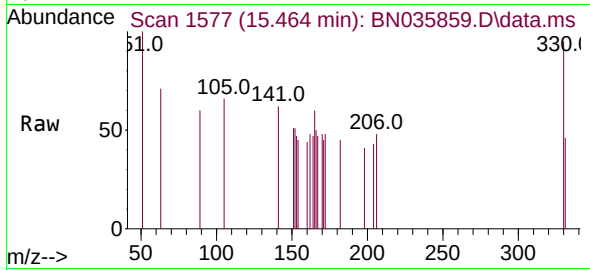
Tgt Ion:164 Resp: 3750  
Ion Ratio Lower Upper  
164 100  
162 101.4 82.2 123.2  
160 52.3 40.1 60.1





#14  
2,4,6-Tribromophenol  
Concen: 0.069 ng  
RT: 15.464 min Scan# 11  
Delta R.T. 0.011 min  
Lab File: BN035859.D  
Acq: 26 Dec 2024 18:29

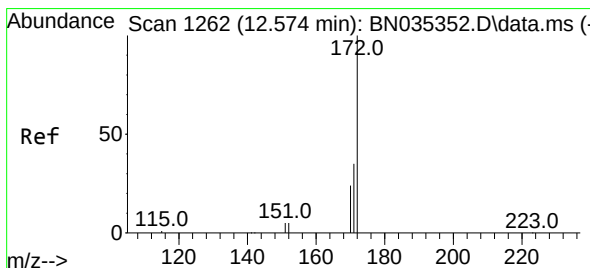
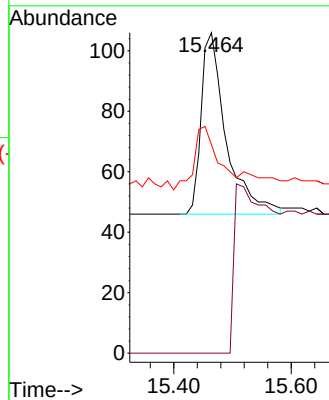
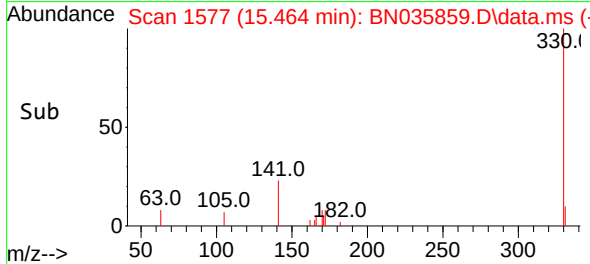
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP100-20241212DL



Tgt Ion:330 Resp: 185  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 32.4 26.6 40.0

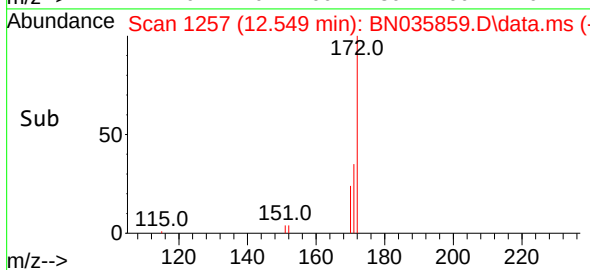
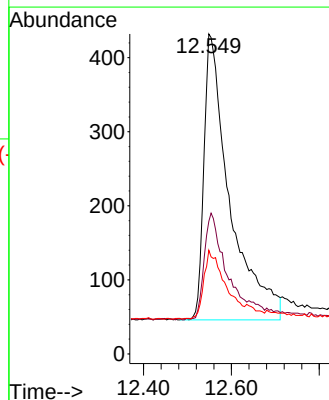
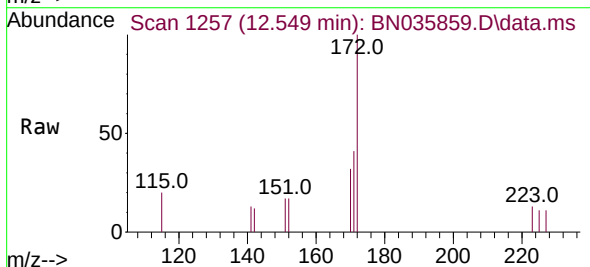
Manual Integrations  
APPROVED

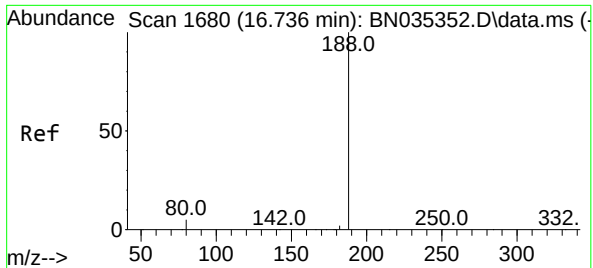
Reviewed By :Yogesh Patel 12/27/2024  
Supervised By :mohammad ahmed 12/27/2024



#15  
2-Fluorobiphenyl  
Concen: 0.111 ng  
RT: 12.549 min Scan# 1257  
Delta R.T. 0.005 min  
Lab File: BN035859.D  
Acq: 26 Dec 2024 18:29

Tgt Ion:172 Resp: 1572  
Ion Ratio Lower Upper  
172 100  
171 41.4 29.0 43.4  
170 32.4 19.8 29.8#





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.698 min Scan# 1677

Delta R.T. -0.000 min

Lab File: BN035859.D

Acq: 26 Dec 2024 18:29

Instrument :

BNA\_N

ClientSampleId :

RW5-SP100-20241212DL

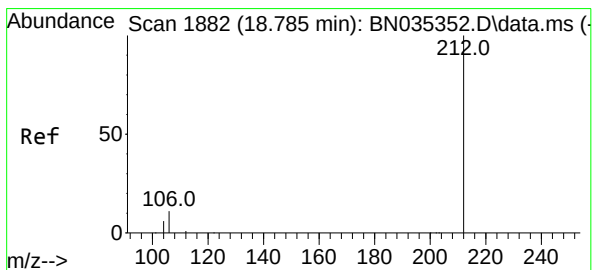
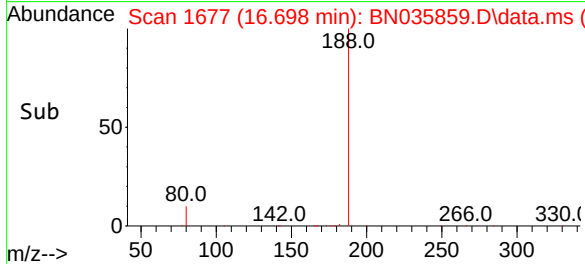
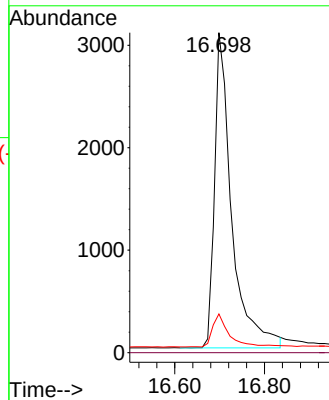
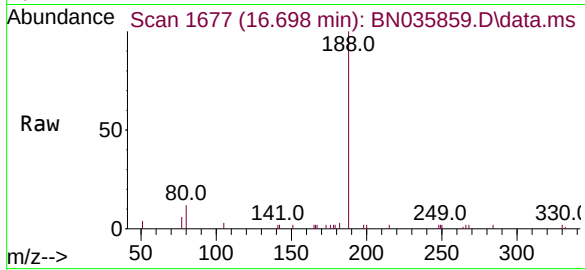
|             |       |       |
|-------------|-------|-------|
| Tgt Ion:188 | Resp: | 8150  |
| Ion Ratio   | Lower | Upper |
| 188         | 100   |       |
| 94          | 0.0   | 0.0   |
| 80          | 12.1  | 4.6   |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/27/2024

Supervised By :mohammad ahmed 12/27/2024



#27

Fluoranthene-d10

Concen: 0.143 ng

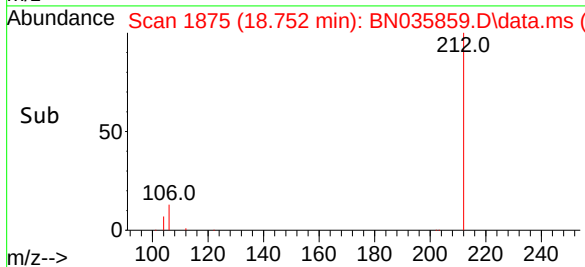
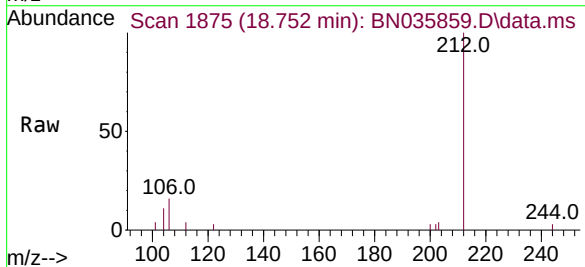
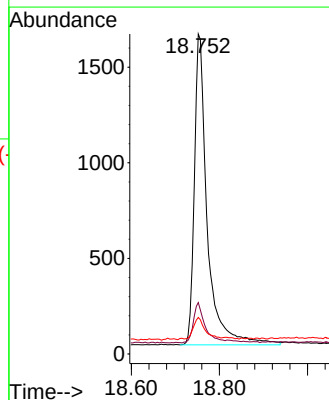
RT: 18.752 min Scan# 1875

Delta R.T. -0.009 min

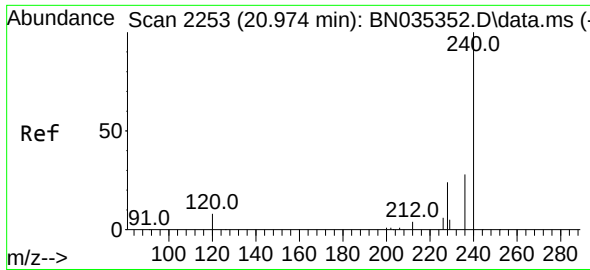
Lab File: BN035859.D

Acq: 26 Dec 2024 18:29

|             |       |       |
|-------------|-------|-------|
| Tgt Ion:212 | Resp: | 3305  |
| Ion Ratio   | Lower | Upper |
| 212         | 100   |       |
| 106         | 11.6  | 9.2   |
| 104         | 6.0   | 5.3   |

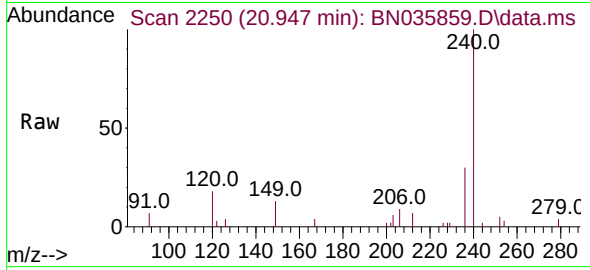






#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 20.947 min Scan# 2010  
Delta R.T. -0.009 min  
Lab File: BN035859.D  
Acq: 26 Dec 2024 18:29

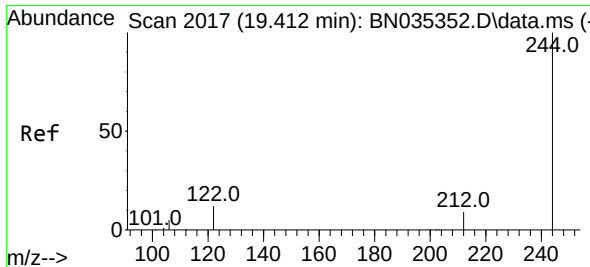
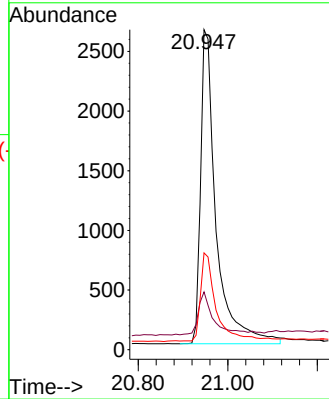
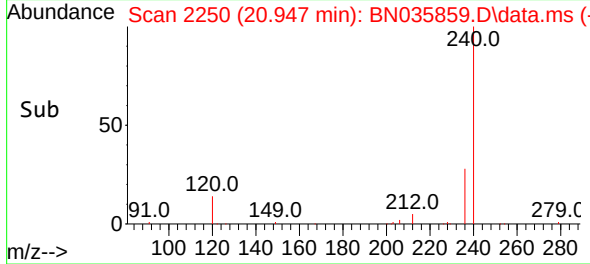
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP100-20241212DL



Tgt Ion:240 Resp: 6332  
Ion Ratio Lower Upper  
240 100  
120 18.0 7.9 11.9#  
236 30.2 22.9 34.3#

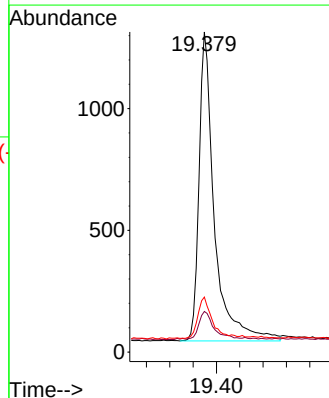
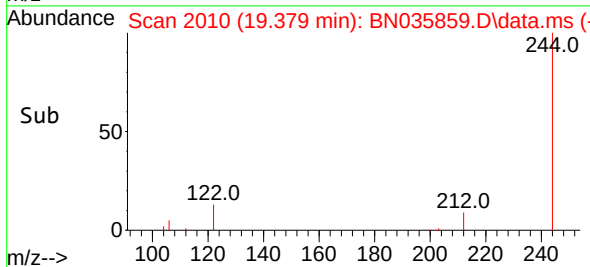
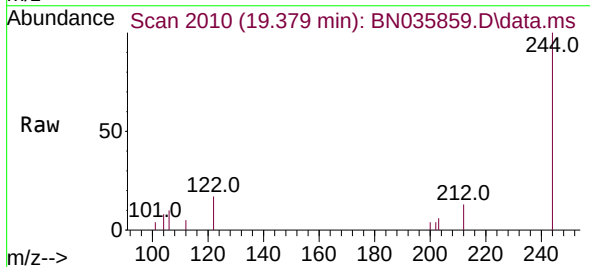
Manual Integrations  
**APPROVED**

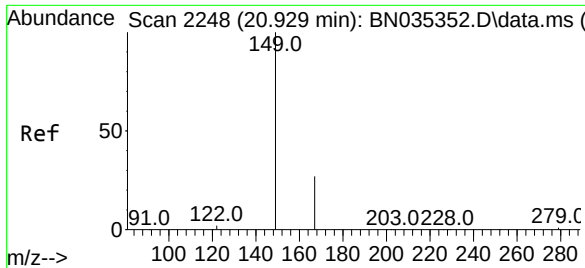
Reviewed By :Yogesh Patel 12/27/2024  
Supervised By :mohammad ahmed 12/27/2024



#31  
Terphenyl-d14  
Concen: 0.185 ng  
RT: 19.379 min Scan# 2010  
Delta R.T. -0.009 min  
Lab File: BN035859.D  
Acq: 26 Dec 2024 18:29

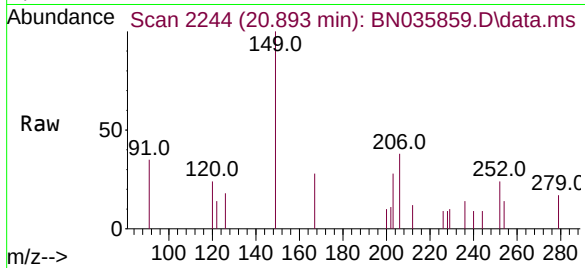
Tgt Ion:244 Resp: 2316  
Ion Ratio Lower Upper  
244 100  
212 12.7 8.1 12.1#  
122 17.2 10.3 15.5#





#34  
Bis(2-ethylhexyl)phthalate  
Concen: 0.046 ng  
RT: 20.893 min Scan# 21  
Delta R.T. -0.018 min  
Lab File: BN035859.D  
Acq: 26 Dec 2024 18:29

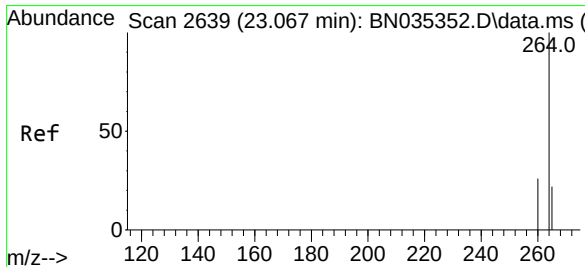
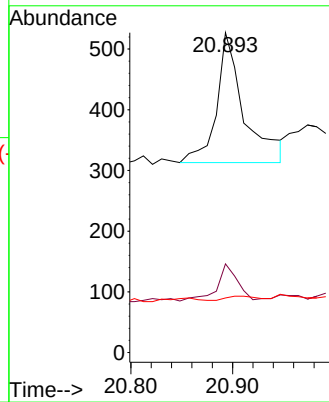
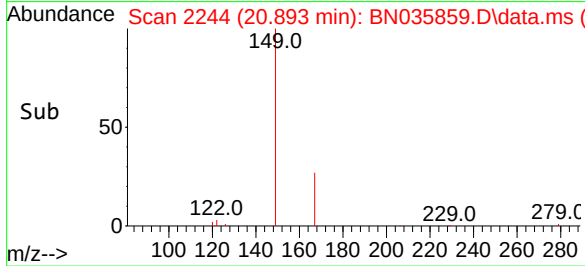
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP100-20241212DL



Tgt Ion:149 Resp: 400  
Ion Ratio Lower Upper  
149 100  
167 21.8 22.2 33.4  
279 3.5 2.7 4.1

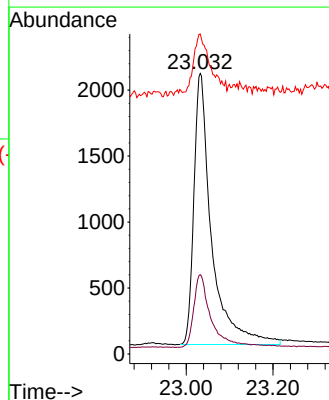
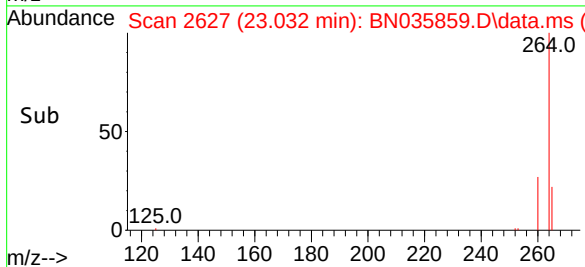
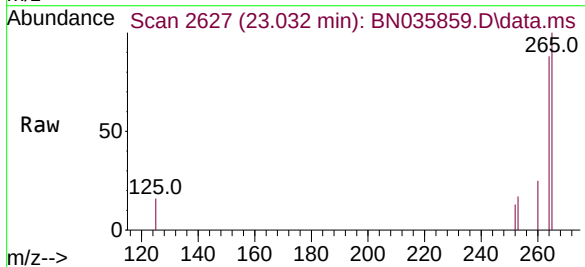
Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 12/27/2024  
Supervised By :mohammad ahmed 12/27/2024



#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.032 min Scan# 2627  
Delta R.T. -0.009 min  
Lab File: BN035859.D  
Acq: 26 Dec 2024 18:29

Tgt Ion:264 Resp: 5817  
Ion Ratio Lower Upper  
264 100  
260 28.3 21.4 32.2  
265 114.1 40.2 60.4



## Report of Analysis

|                    |                      |                 |                |
|--------------------|----------------------|-----------------|----------------|
| Client:            | Tetra Tech NUS, Inc. | Date Collected: | 12/12/24       |
| Project:           | CTO WE13             | Date Received:  | 12/13/24       |
| Client Sample ID:  | RW5-SP201-20241212   | SDG No.:        | P5284          |
| Lab Sample ID:     | P5284-02             | Matrix:         | Water          |
| Analytical Method: | SW8270ESIM           | % Solid:        | 0              |
| Sample Wt/Vol:     | 1000 Units: mL       | Final Vol:      | 1000 uL        |
| Soil Aliquot Vol:  | uL                   | Test:           | SVOC-SIMGroup1 |
| Extraction Type :  | Decanted : N         | Level :         | LOW            |
| Injection Volume : | GPC Factor : 1.0     | GPC Cleanup :   | N PH :         |
| Prep Method :      |                      |                 |                |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BN035762.D        | 1         | 12/16/24 11:30 | 12/21/24 03:22 | PB165667      |

| CAS Number                | Parameter               | Conc. | Qualifier | MDL      | LOD  | LOQ / CRQL | Units    |
|---------------------------|-------------------------|-------|-----------|----------|------|------------|----------|
| <b>TARGETS</b>            |                         |       |           |          |      |            |          |
| 123-91-1                  | 1,4-Dioxane             | 0.20  | U         | 0.070    | 0.20 | 0.20       | ug/L     |
| <b>SURROGATES</b>         |                         |       |           |          |      |            |          |
| 7297-45-2                 | 2-Methylnaphthalene-d10 | 0.40  |           | 30 - 150 |      | 100%       | SPK: 0.4 |
| 93951-69-0                | Fluoranthene-d10        | 0.46  |           | 30 - 150 |      | 116%       | SPK: 0.4 |
| 4165-60-0                 | Nitrobenzene-d5         | 0.43  |           | 55 - 111 |      | 108%       | SPK: 0.4 |
| 321-60-8                  | 2-Fluorobiphenyl        | 0.37  |           | 53 - 106 |      | 91%        | SPK: 0.4 |
| 1718-51-0                 | Terphenyl-d14           | 0.62  | *         | 58 - 132 |      | 154%       | SPK: 0.4 |
| <b>INTERNAL STANDARDS</b> |                         |       |           |          |      |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4  | 2710  | 7.271     |          |      |            |          |
| 1146-65-2                 | Naphthalene-d8          | 6640  | 10.02     |          |      |            |          |
| 15067-26-2                | Acenaphthene-d10        | 4390  | 13.935    |          |      |            |          |
| 1517-22-2                 | Phenanthrene-d10        | 8480  | 16.711    |          |      |            |          |
| 1719-03-5                 | Chrysene-d12            | 6850  | 20.956    |          |      |            |          |
| 1520-96-3                 | Perylene-d12            | 6940  | 23.044    |          |      |            |          |

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\BN121924\  
 Data File : BN035762.D  
 Acq On : 21 Dec 2024 03:22  
 Operator : RC/JU  
 Sample : P5284-02  
 Misc :  
 ALS Vial : 53 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 RW5-SP201-20241212

Manual Integrations  
 APPROVED

Reviewed By :Jagrut Upadhyay 12/23/2024  
 Supervised By :mohammad ahmed 12/24/2024

Quant Time: Dec 21 04:11:35 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Dec 19 23:06:19 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.271  | 152  | 2707     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.020 | 136  | 6635     | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 13.935 | 164  | 4389     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 16.711 | 188  | 8477     | 0.400 | ng    | # 0.01   |
| 29) Chrysene-d12              | 20.956 | 240  | 6852     | 0.400 | ng    | # 0.00   |
| 35) Perylene-d12              | 23.044 | 264  | 6936     | 0.400 | ng    | # 0.00   |
|                               |        |      |          |       |       |          |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 4.931  | 112  | 947      | 0.140 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.492  | 99   | 458      | 0.056 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.418  | 82   | 1748m    | 0.431 | ng    | 0.01     |
| 11) 2-Methylnaphthalene-d10   | 11.631 | 152  | 4128     | 0.398 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.464 | 330  | 599      | 0.192 | ng    | 0.01     |
| 15) 2-Fluorobiphenyl          | 12.549 | 172  | 6078     | 0.366 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 18.761 | 212  | 11121    | 0.463 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.388 | 244  | 8321     | 0.616 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| Target Compounds              |        |      |          |       |       | Qvalue   |
| 34) Bis(2-ethylhexyl)phtha... | 20.911 | 149  | 428      | 0.045 | ng    | 99       |
| -----                         |        |      |          |       |       |          |

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

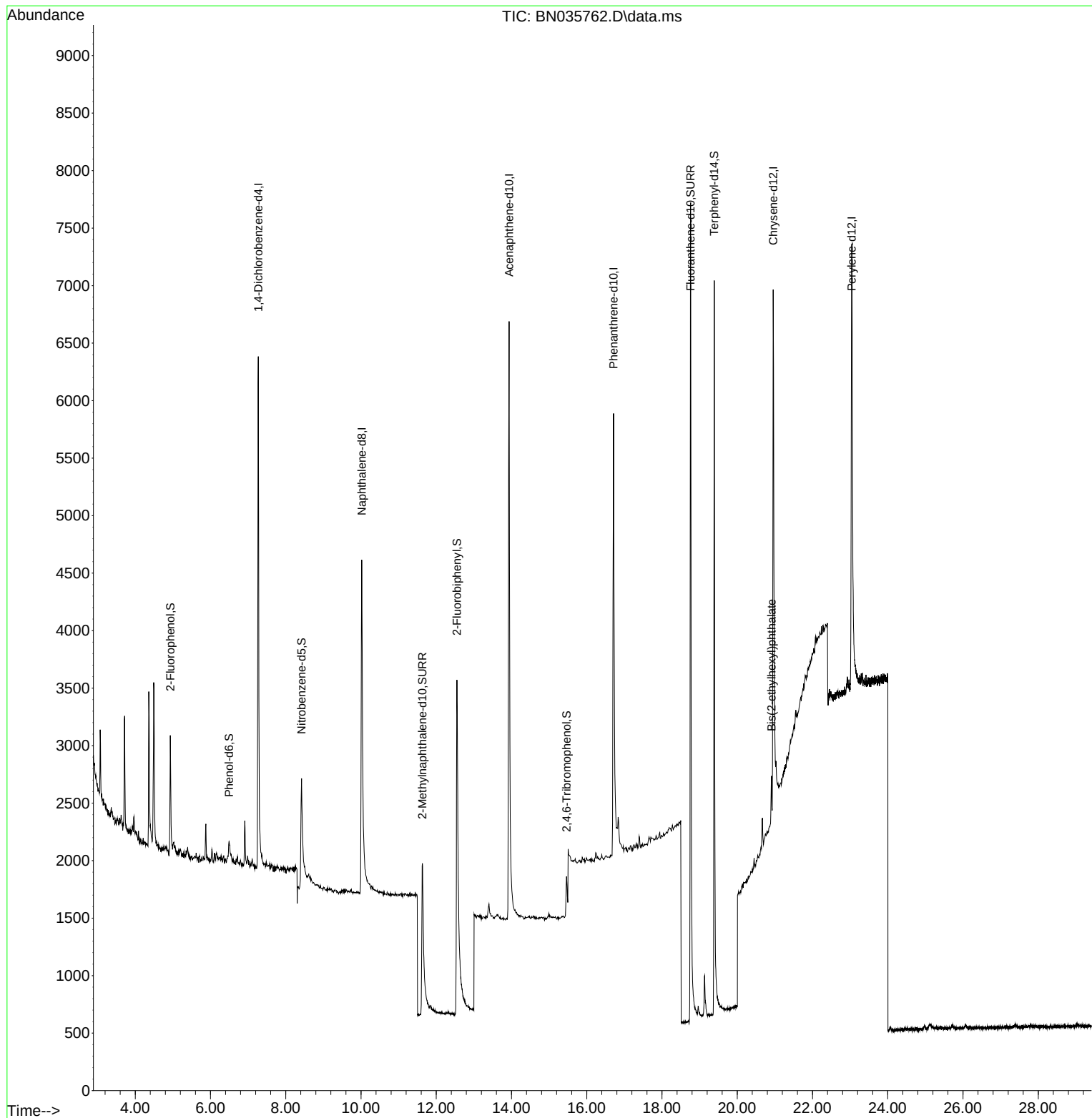
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN121924\  
Data File : BN035762.D  
Acq On : 21 Dec 2024 03:22  
Operator : RC/JU  
Sample : P5284-02  
Misc :  
ALS Vial : 53 Sample Multiplier: 1

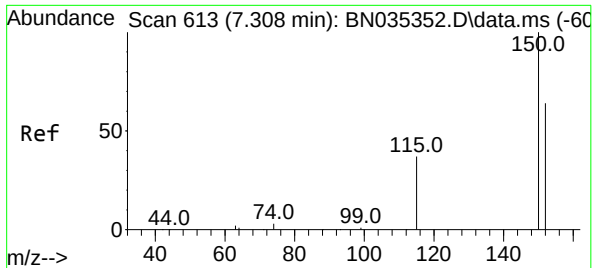
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP201-20241212

Manual Integrations  
**APPROVED**

Reviewed By :Jagrut Upadhyay 12/23/2024  
Supervised By :mohammad ahmed 12/24/2024

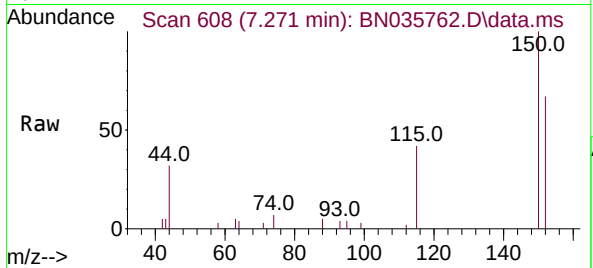
Quant Time: Dec 21 04:11:35 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Dec 19 23:06:19 2024  
Response via : Initial Calibration





#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.271 min Scan# 608  
Delta R.T. -0.001 min  
Lab File: BN035762.D  
Acq: 21 Dec 2024 03:22

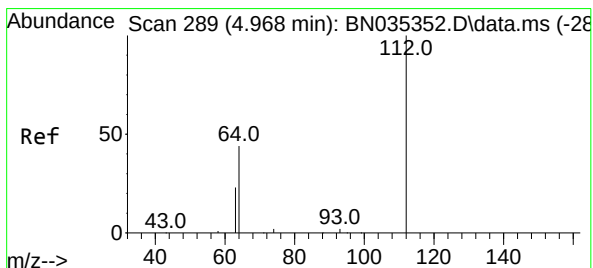
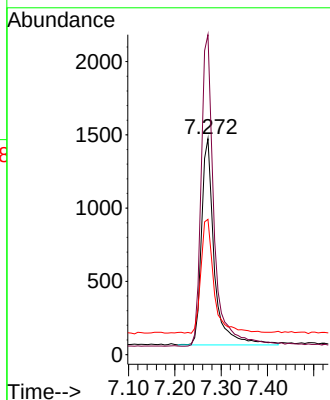
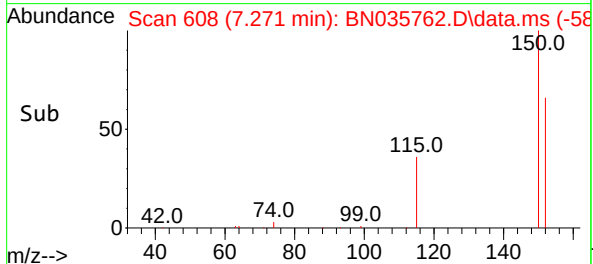
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP201-20241212



Tgt Ion:152 Resp: 270  
Ion Ratio Lower Upper  
152 100  
150 148.2 124.0 186.0  
115 62.7 49.6 74.4

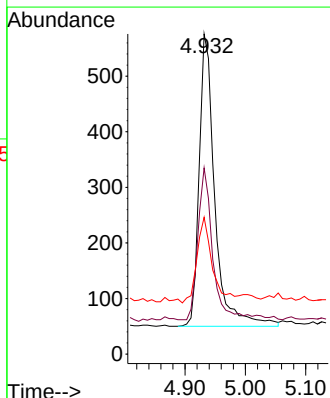
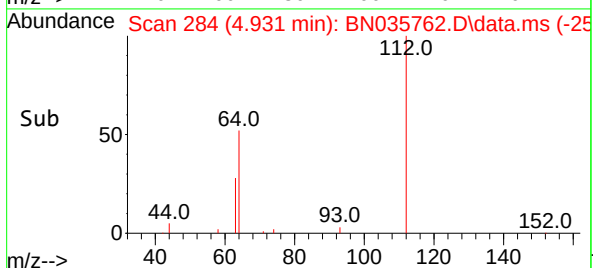
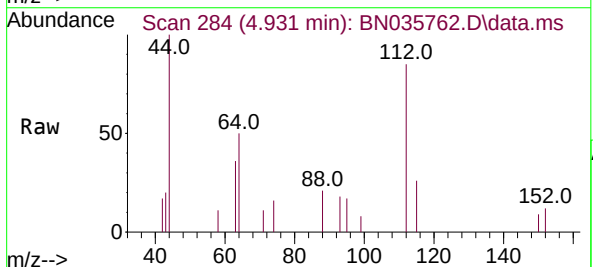
Manual Integrations  
**APPROVED**

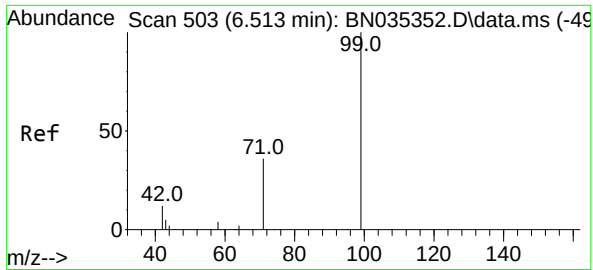
Reviewed By :Jagrut Upadhyay 12/23/2024  
Supervised By :mohammad ahmed 12/24/2024



#4  
2-Fluorophenol  
Concen: 0.140 ng  
RT: 4.931 min Scan# 284  
Delta R.T. -0.007 min  
Lab File: BN035762.D  
Acq: 21 Dec 2024 03:22

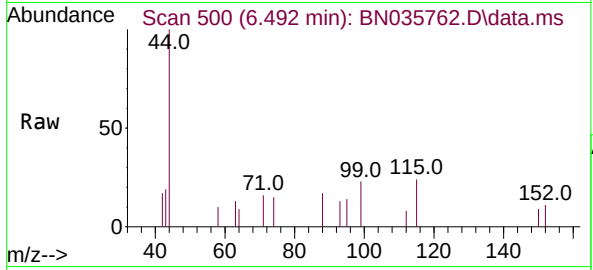
Tgt Ion:112 Resp: 947  
Ion Ratio Lower Upper  
112 100  
64 50.8 39.8 59.8  
63 28.6 21.0 31.6





#5  
Phenol-d6  
Concen: 0.056 ng  
RT: 6.492 min Scan# 503  
Delta R.T. -0.000 min  
Lab File: BN035762.D  
Acq: 21 Dec 2024 03:22

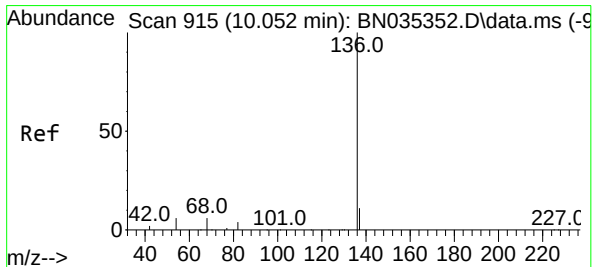
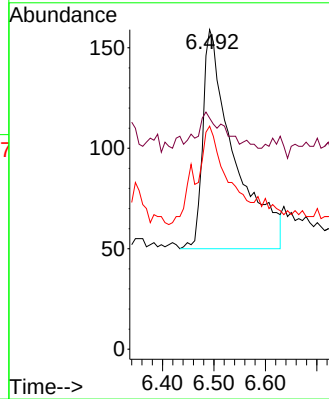
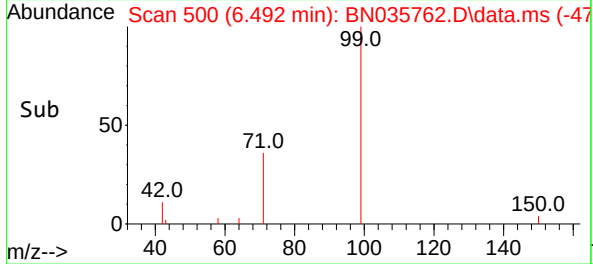
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP201-20241212



Tgt Ion: 99 Resp: 458  
Ion Ratio Lower Upper  
99 100  
42 10.7 11.4 17.2  
71 24.9 29.3 43.9

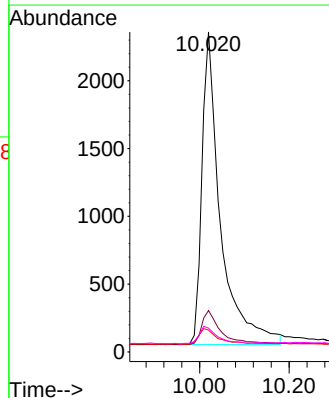
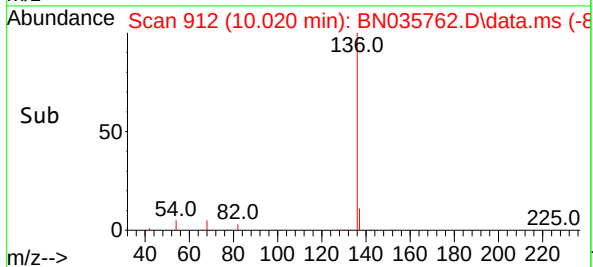
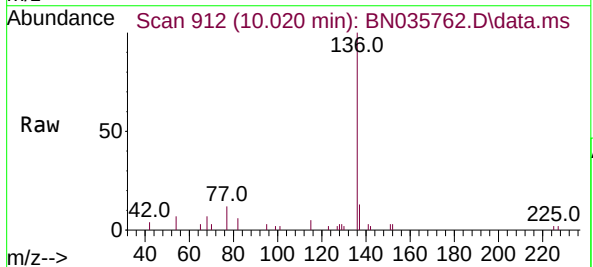
Manual Integrations  
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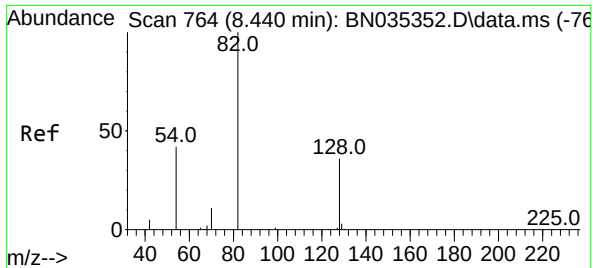
Reviewed By :Jagrut Upadhyay 12/23/2024  
Supervised By :mohammad ahmed 12/24/2024



#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.020 min Scan# 912  
Delta R.T. -0.000 min  
Lab File: BN035762.D  
Acq: 21 Dec 2024 03:22

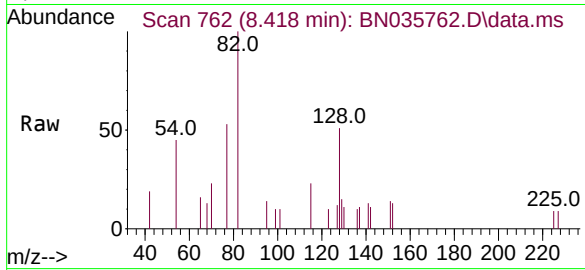
Tgt Ion:136 Resp: 6635  
Ion Ratio Lower Upper  
136 100  
137 13.0 10.2 15.2  
54 6.9 6.1 9.1  
68 7.5 6.4 9.6





#8  
Nitrobenzene-d5  
Concen: 0.431 ng m  
RT: 8.418 min Scan# 70  
Delta R.T. 0.010 min  
Lab File: BN035762.D  
Acq: 21 Dec 2024 03:22

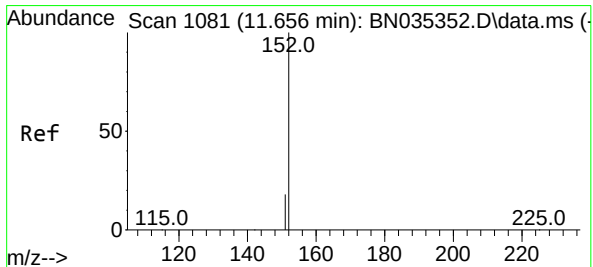
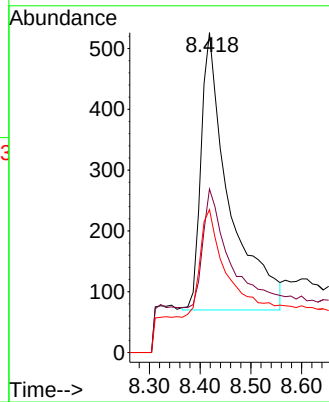
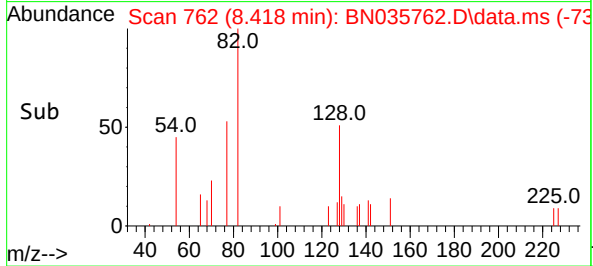
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP201-20241212



Tgt Ion: 82 Resp: 1748  
Ion Ratio Lower Upper  
82 100  
128 51.1 33.4 50.0  
54 44.7 36.7 55.1

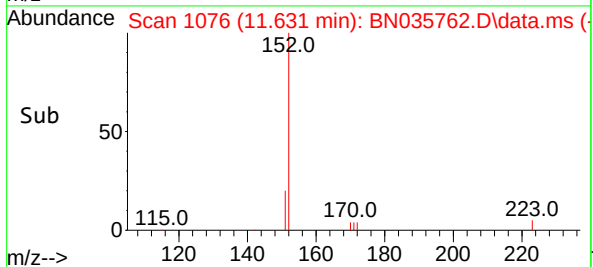
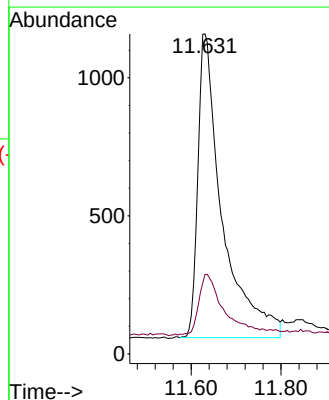
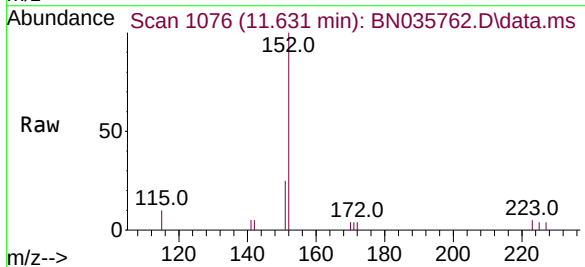
Manual Integrations  
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Supervised By :mohammad ahmed 12/24/2024

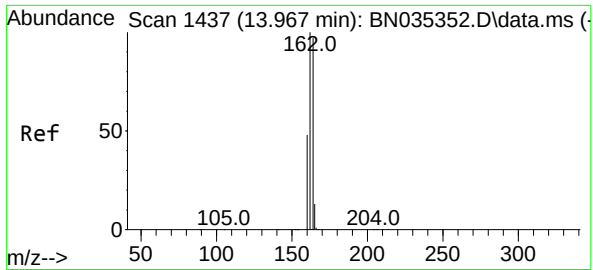


#11  
2-Methylnaphthalene-d10  
Concen: 0.398 ng  
RT: 11.631 min Scan# 1076  
Delta R.T. 0.010 min  
Lab File: BN035762.D  
Acq: 21 Dec 2024 03:22

Tgt Ion:152 Resp: 4128  
Ion Ratio Lower Upper  
152 100  
151 20.8 16.6 25.0

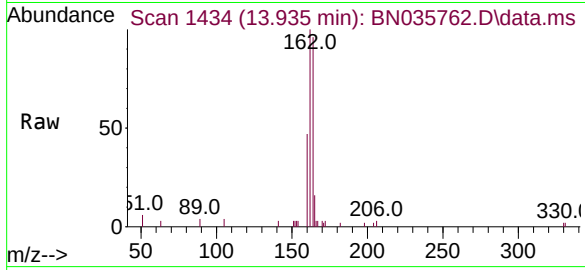






#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.935 min Scan# 1434  
Delta R.T. -0.000 min  
Lab File: BN035762.D  
Acq: 21 Dec 2024 03:22

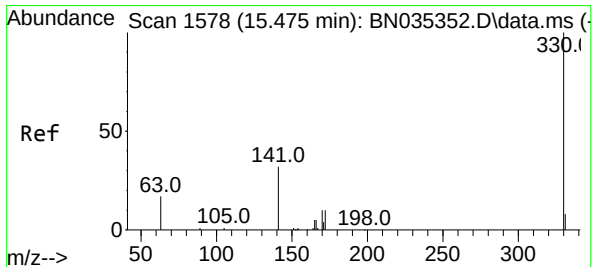
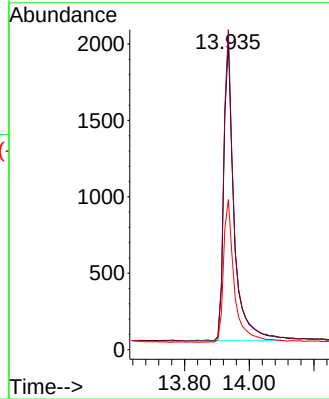
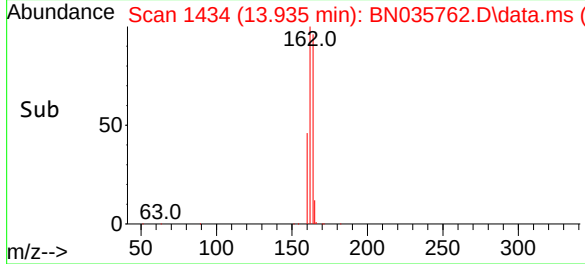
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP201-20241212



Tgt Ion:164 Resp: 4389  
Ion Ratio Lower Upper  
164 100  
162 104.1 82.2 123.2  
160 48.8 40.1 60.1

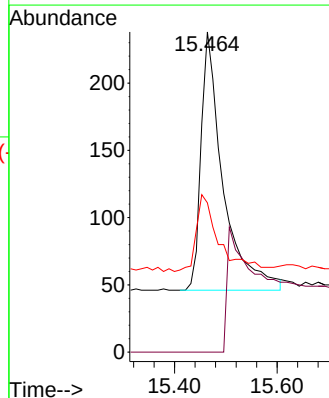
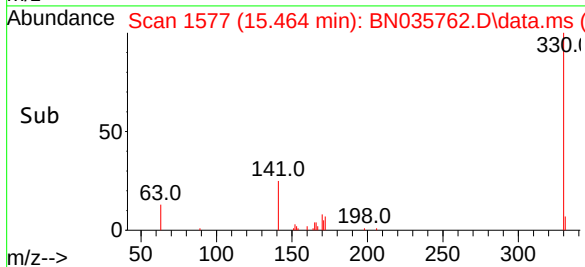
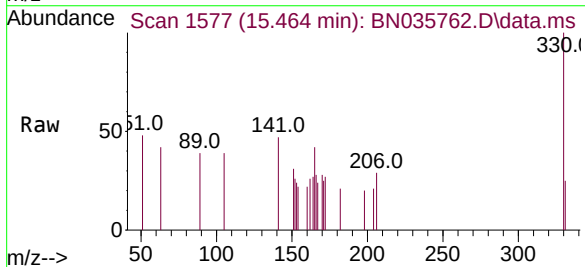
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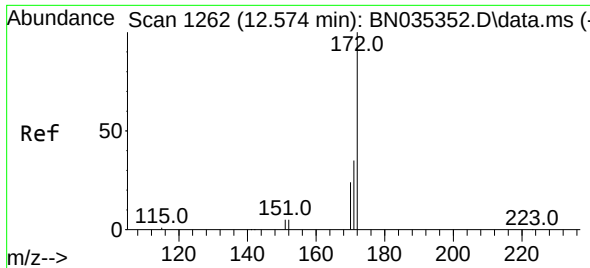
Reviewed By :Jagrut Upadhyay 12/23/2024  
Supervised By :mohammad ahmed 12/24/2024



#14  
2,4,6-Tribromophenol  
Concen: 0.192 ng  
RT: 15.464 min Scan# 1577  
Delta R.T. 0.010 min  
Lab File: BN035762.D  
Acq: 21 Dec 2024 03:22

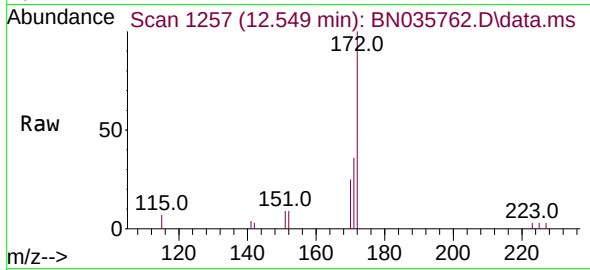
Tgt Ion:330 Resp: 599  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 30.1 26.6 40.0





#15  
2-Fluorobiphenyl  
Concen: 0.366 ng  
RT: 12.549 min Scan# 11  
Delta R.T. 0.005 min  
Lab File: BN035762.D  
Acq: 21 Dec 2024 03:22

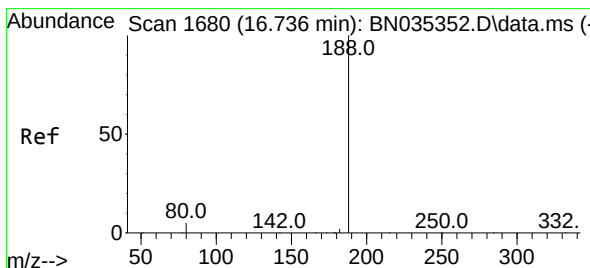
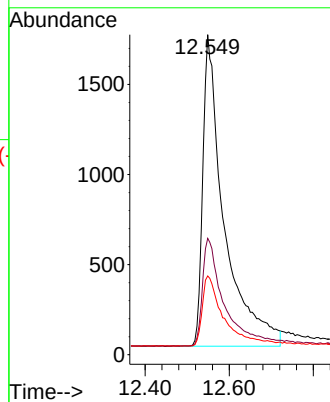
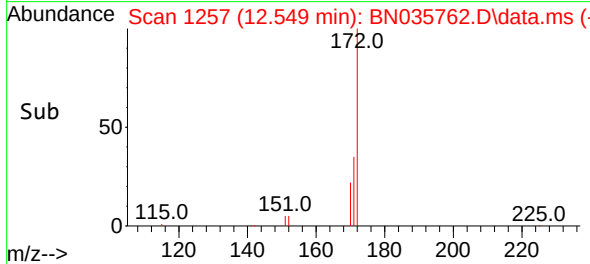
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP201-20241212



Tgt Ion:172 Resp: 6078  
Ion Ratio Lower Upper  
172 100  
171 36.4 29.0 43.4  
170 24.6 19.8 29.8

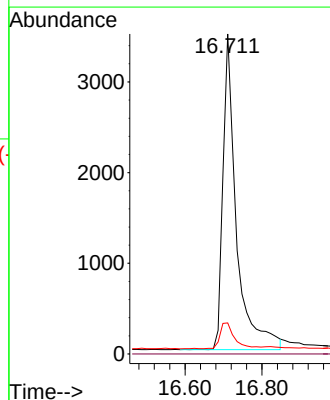
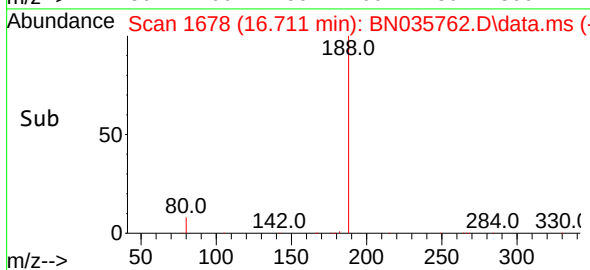
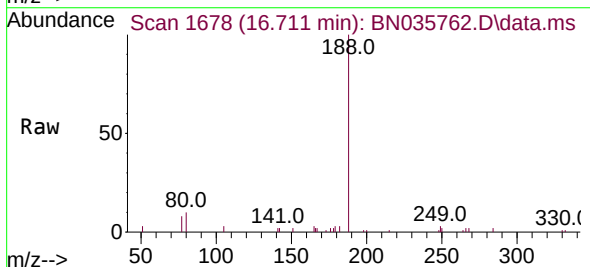
Manual Integrations  
APPROVED

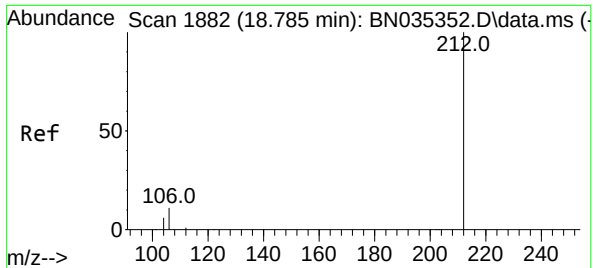
Reviewed By :Jagrut Upadhyay 12/23/2024  
Supervised By :mohammad ahmed 12/24/2024



#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 16.711 min Scan# 1678  
Delta R.T. 0.012 min  
Lab File: BN035762.D  
Acq: 21 Dec 2024 03:22

Tgt Ion:188 Resp: 8477  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 9.7 4.6 6.8#





#27

Fluoranthene-d10

Concen: 0.463 ng

RT: 18.761 min Scan# 1877

Delta R.T. -0.000 min

Lab File: BN035762.D

Acq: 21 Dec 2024 03:22

Instrument :

BNA\_N

ClientSampleId :

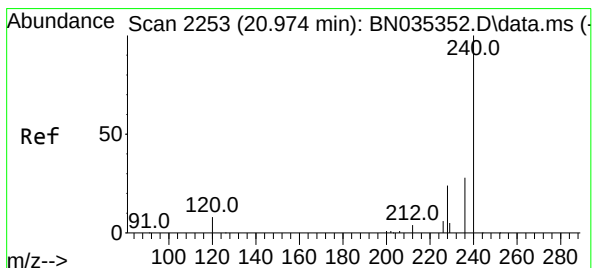
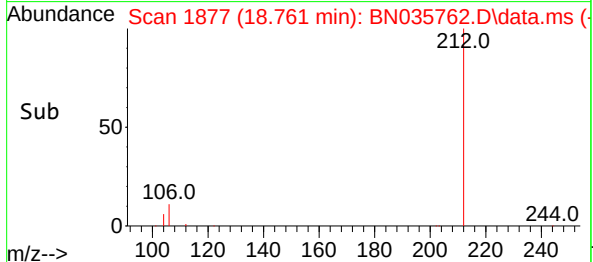
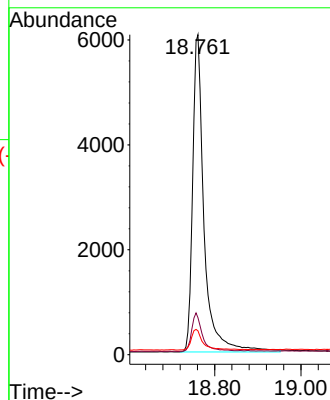
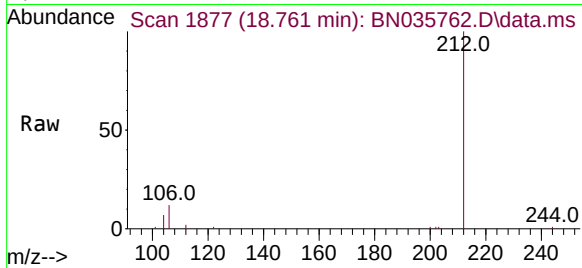
RW5-SP201-20241212

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 212   | Resp: | 1112 |
| Ion Ratio | Lower | Upper |      |
| 212       | 100   |       |      |
| 106       | 11.5  | 9.2   | 13.8 |
| 104       | 6.6   | 5.3   | 7.9  |

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 12/23/2024  
Supervised By :mohammad ahmed 12/24/2024



#29

Chrysene-d12

Concen: 0.400 ng

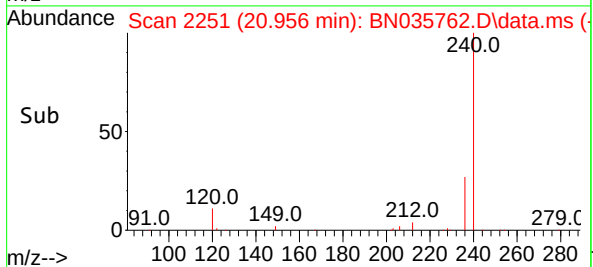
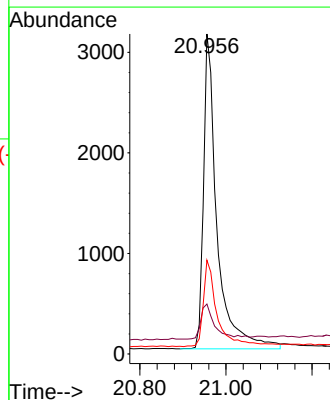
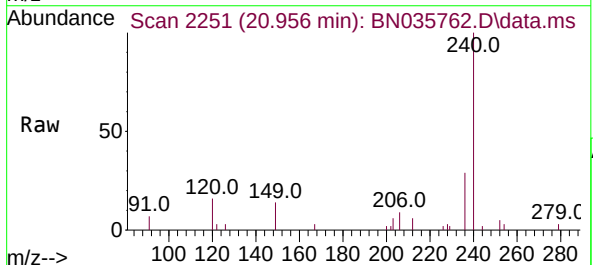
RT: 20.956 min Scan# 2251

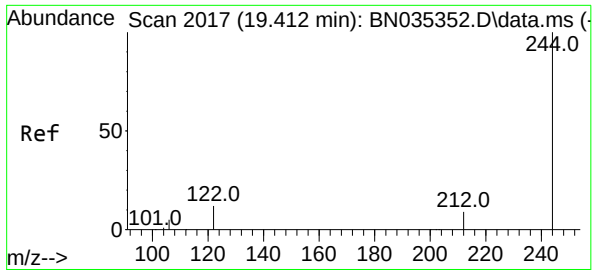
Delta R.T. -0.000 min

Lab File: BN035762.D

Acq: 21 Dec 2024 03:22

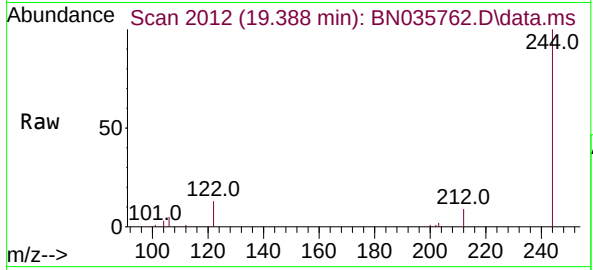
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 240   | Resp: | 6852  |
| Ion Ratio | Lower | Upper |       |
| 240       | 100   |       |       |
| 120       | 15.6  | 7.9   | 11.9# |
| 236       | 29.3  | 22.9  | 34.3  |





#31  
Terphenyl-d14  
Concen: 0.616 ng  
RT: 19.388 min Scan# 2017  
Delta R.T. -0.000 min  
Lab File: BN035762.D  
Acq: 21 Dec 2024 03:22

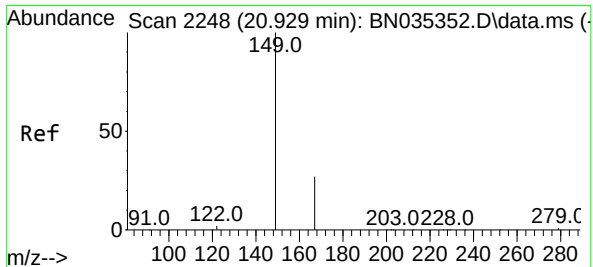
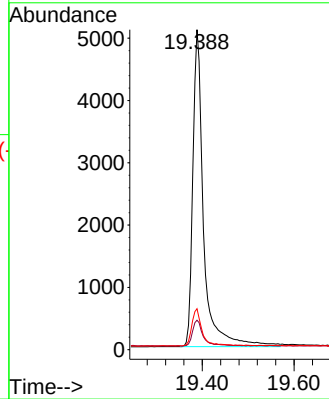
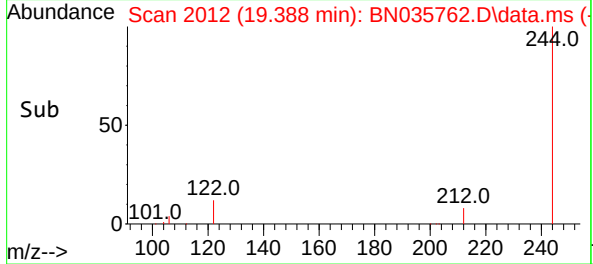
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP201-20241212



Tgt Ion:244 Resp: 832  
Ion Ratio Lower Upper  
244 100  
212 9.2 8.1 12.1  
122 12.8 10.3 15.5

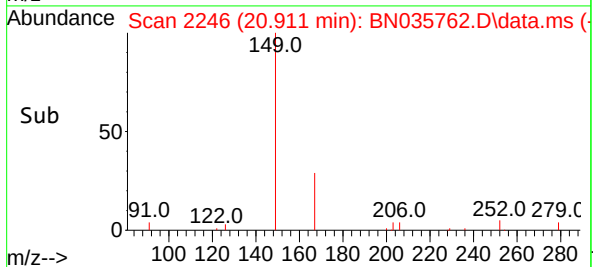
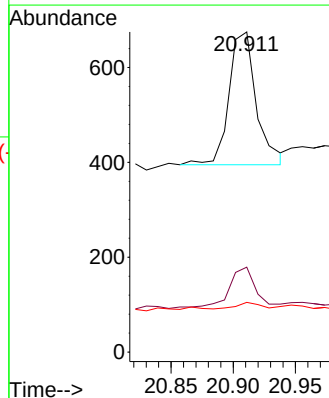
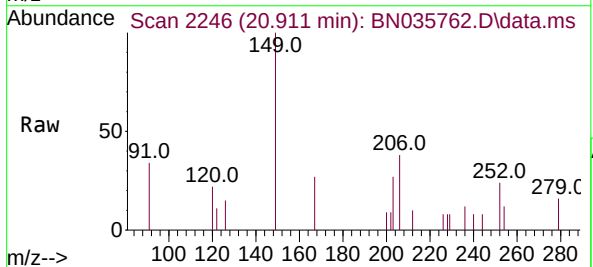
Manual Integrations  
APPROVED

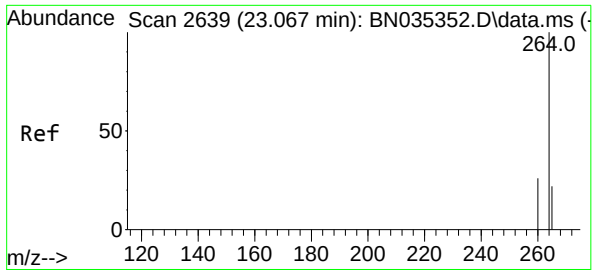
Reviewed By :Jagrut Upadhyay 12/23/2024  
Supervised By :mohammad ahmed 12/24/2024



#34  
Bis(2-ethylhexyl)phthalate  
Concen: 0.045 ng  
RT: 20.911 min Scan# 2246  
Delta R.T. -0.000 min  
Lab File: BN035762.D  
Acq: 21 Dec 2024 03:22

Tgt Ion:149 Resp: 428  
Ion Ratio Lower Upper  
149 100  
167 27.6 22.2 33.4  
279 4.0 2.7 4.1





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.044 min Scan# 20

Delta R.T. 0.003 min

Lab File: BN035762.D

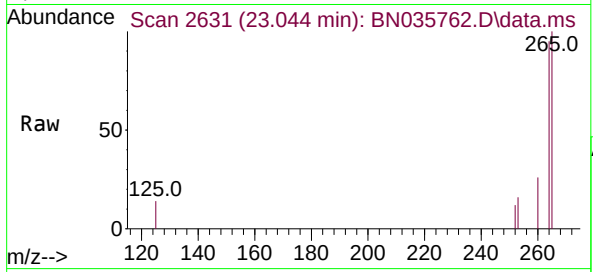
Acq: 21 Dec 2024 03:22

Instrument :

BNA\_N

ClientSampleId :

RW5-SP201-20241212



Tgt Ion:264 Resp: 6930

Ion Ratio Lower Upper

264 100

260 27.8 21.4 32.2

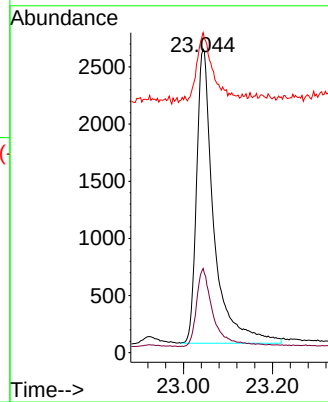
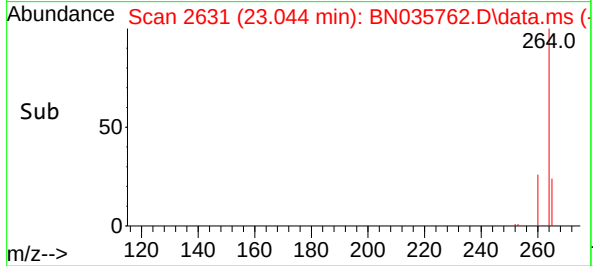
265 105.5 40.2 60.4

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 12/23/2024

Supervised By :mohammad ahmed 12/24/2024



## Report of Analysis

|                    |                        |                 |                |
|--------------------|------------------------|-----------------|----------------|
| Client:            | Tetra Tech NUS, Inc.   | Date Collected: | 12/12/24       |
| Project:           | CTO WE13               | Date Received:  | 12/13/24       |
| Client Sample ID:  | RW5-SP303-20241212     | SDG No.:        | P5284          |
| Lab Sample ID:     | P5284-03               | Matrix:         | Water          |
| Analytical Method: | SW8270ESIM             | % Solid:        | 0              |
| Sample Wt/Vol:     | 1000      Units:    mL | Final Vol:      | 1000      uL   |
| Soil Aliquot Vol:  | uL                     | Test:           | SVOC-SIMGroup1 |
| Extraction Type :  | Decanted :    N        | Level :         | LOW            |
| Injection Volume : | GPC Factor :    1.0    | GPC Cleanup :   | N      PH :    |
| Prep Method :      |                        |                 |                |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BN035763.D        | 1         | 12/16/24 11:30 | 12/21/24 03:58 | PB165667      |

| CAS Number                | Parameter               | Conc. | Qualifier | MDL      | LOD  | LOQ / CRQL | Units    |
|---------------------------|-------------------------|-------|-----------|----------|------|------------|----------|
| <b>TARGETS</b>            |                         |       |           |          |      |            |          |
| 123-91-1                  | 1,4-Dioxane             | 0.090 | J         | 0.070    | 0.20 | 0.20       | ug/L     |
| <b>SURROGATES</b>         |                         |       |           |          |      |            |          |
| 7297-45-2                 | 2-Methylnaphthalene-d10 | 0.42  |           | 30 - 150 |      | 105%       | SPK: 0.4 |
| 93951-69-0                | Fluoranthene-d10        | 0.50  |           | 30 - 150 |      | 125%       | SPK: 0.4 |
| 4165-60-0                 | Nitrobenzene-d5         | 0.46  | *         | 55 - 111 |      | 114%       | SPK: 0.4 |
| 321-60-8                  | 2-Fluorobiphenyl        | 0.39  |           | 53 - 106 |      | 98%        | SPK: 0.4 |
| 1718-51-0                 | Terphenyl-d14           | 0.65  | *         | 58 - 132 |      | 162%       | SPK: 0.4 |
| <b>INTERNAL STANDARDS</b> |                         |       |           |          |      |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4  | 2590  |           | 7.272    |      |            |          |
| 1146-65-2                 | Naphthalene-d8          | 6370  |           | 10.02    |      |            |          |
| 15067-26-2                | Acenaphthene-d10        | 4190  |           | 13.935   |      |            |          |
| 1517-22-2                 | Phenanthrene-d10        | 7930  |           | 16.711   |      |            |          |
| 1719-03-5                 | Chrysene-d12            | 6330  |           | 20.956   |      |            |          |
| 1520-96-3                 | Perylene-d12            | 6480  |           | 23.044   |      |            |          |

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\BN121924\  
 Data File : BN035763.D  
 Acq On : 21 Dec 2024 03:58  
 Operator : RC/JU  
 Sample : P5284-03  
 Misc :  
 ALS Vial : 54 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 RW5-SP303-20241212

Manual Integrations  
**APPROVED**

Reviewed By :Jagrut Upadhyay 12/23/2024  
 Supervised By :mohammad ahmed 12/24/2024

Quant Time: Dec 21 04:27:40 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Dec 19 23:06:19 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.272  | 152  | 2594     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.020 | 136  | 6365     | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 13.935 | 164  | 4185     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 16.711 | 188  | 7931     | 0.400 | ng    | # 0.01   |
| 29) Chrysene-d12              | 20.956 | 240  | 6332     | 0.400 | ng    | # 0.00   |
| 35) Perylene-d12              | 23.044 | 264  | 6481     | 0.400 | ng    | # 0.00   |
|                               |        |      |          |       |       |          |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 4.932  | 112  | 889      | 0.137 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.499  | 99   | 447      | 0.057 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.418  | 82   | 1779m    | 0.458 | ng    | 0.01     |
| 11) 2-Methylnaphthalene-d10   | 11.626 | 152  | 4201     | 0.422 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.464 | 330  | 570      | 0.192 | ng    | 0.01     |
| 15) 2-Fluorobiphenyl          | 12.544 | 172  | 6215     | 0.393 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 18.761 | 212  | 11188    | 0.498 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.389 | 244  | 8071     | 0.646 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| Target Compounds              |        |      |          |       |       |          |
| 2) 1,4-Dioxane                | 2.982  | 88   | 221      | 0.089 | ng    | # 81     |
| 34) Bis(2-ethylhexyl)phtha... | 20.902 | 149  | 2822     | 0.323 | ng    | # 99     |
| -----                         |        |      |          |       |       |          |

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

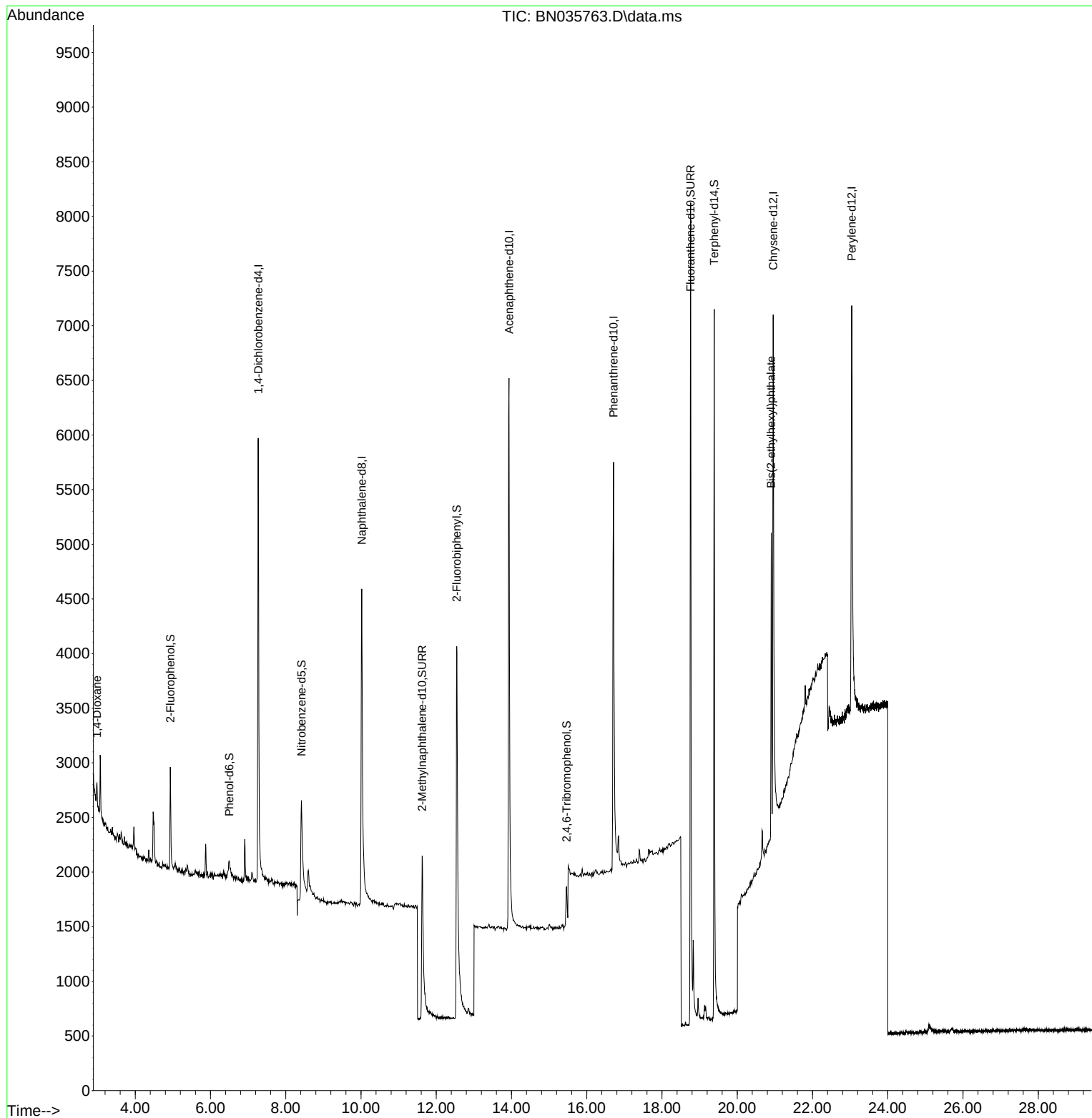
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Data File : BN035763.D  
Acq On : 21 Dec 2024 03:58  
Operator : RC/JU  
Sample : P5284-03  
Misc :  
ALS Vial : 54 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP303-20241212

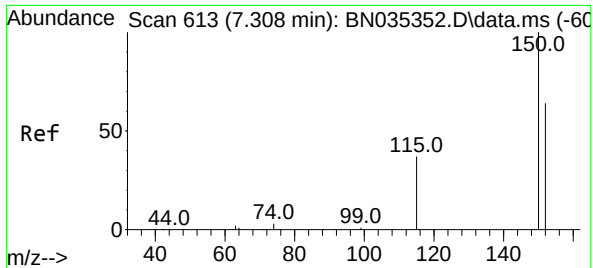
Manual Integrations  
**APPROVED**

Reviewed By :Jagrut Upadhyay 12/23/2024  
Supervised By :mohammad ahmed 12/24/2024

Quant Time: Dec 21 04:27:40 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Dec 19 23:06:19 2024  
Response via : Initial Calibration

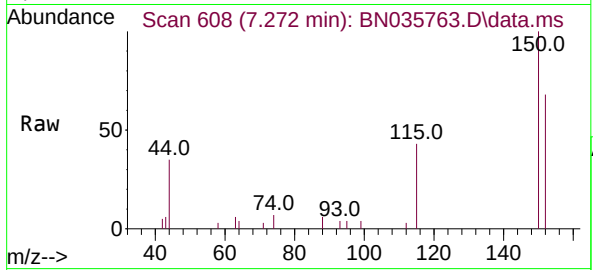






#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.272 min Scan# 60  
Delta R.T. -0.000 min  
Lab File: BN035763.D  
Acq: 21 Dec 2024 03:58

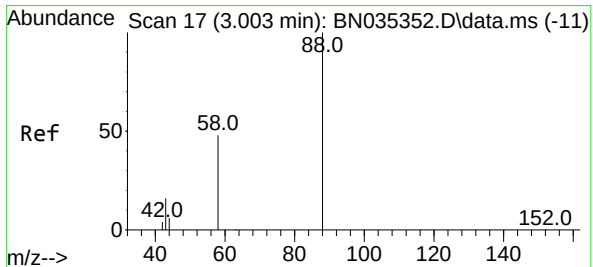
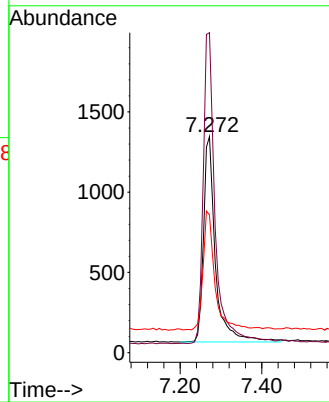
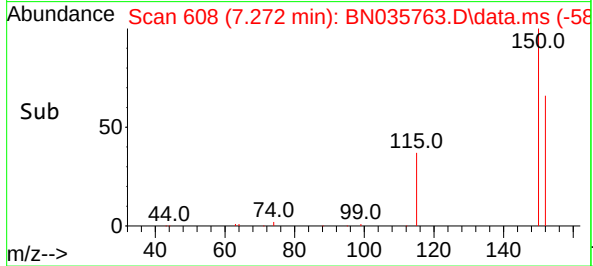
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP303-20241212



Tgt Ion: 152 Resp: 2594  
Ion Ratio Lower Upper  
152 100  
150 148.0 124.0 186.0  
115 63.7 49.6 74.4

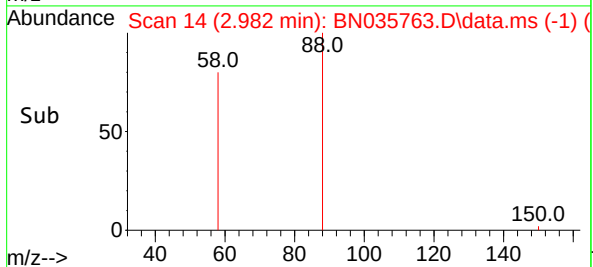
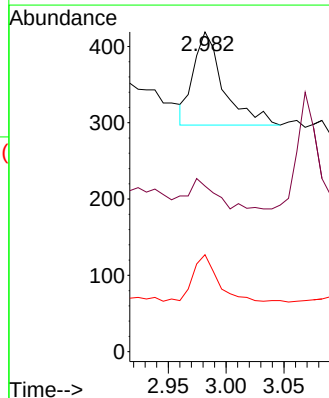
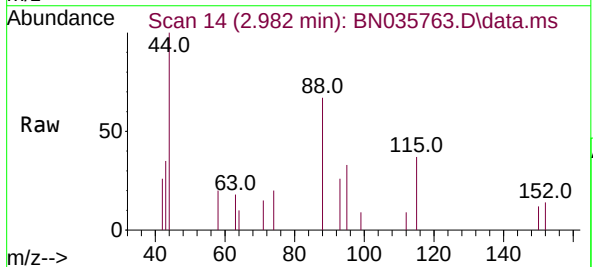
Manual Integrations  
APPROVED

Reviewed By :Jagrut Upadhyay 12/23/2024  
Supervised By :mohammad ahmed 12/24/2024

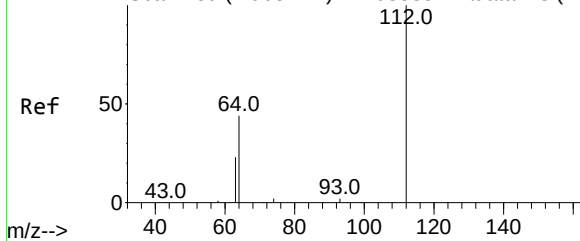


#2  
1,4-Dioxane  
Concen: 0.089 ng  
RT: 2.982 min Scan# 14  
Delta R.T. -0.000 min  
Lab File: BN035763.D  
Acq: 21 Dec 2024 03:58

Tgt Ion: 88 Resp: 221  
Ion Ratio Lower Upper  
88 100  
43 29.4 17.2 25.8#  
58 40.7 44.5 66.7#



Abundance Scan 289 (4.968 min): BN035352.D\data.ms (-28



#4

2-Fluorophenol

Concen: 0.137 ng

RT: 4.932 min Scan# 289

Delta R.T. -0.007 min

Lab File: BN035763.D

Acq: 21 Dec 2024 03:58

Instrument :

BNA\_N

ClientSampleId :

RW5-SP303-20241212

Tgt Ion:112 Resp: 889

Ion Ratio Lower Upper

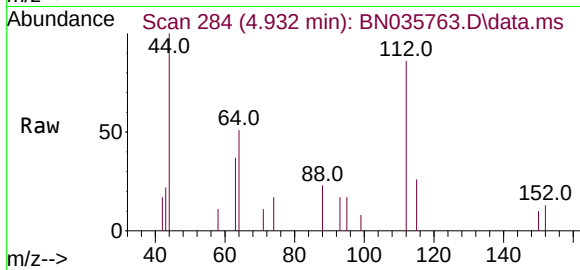
112 100

64 53.9 39.8 59.8

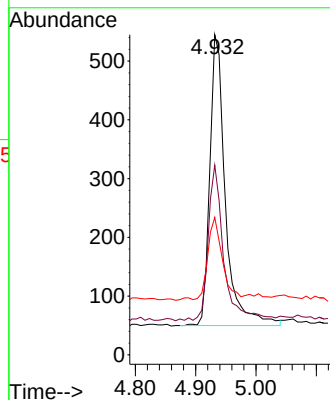
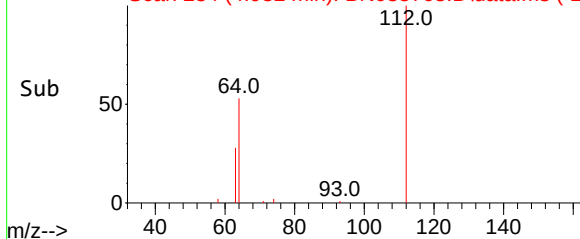
63 26.4 21.0 31.6

Manual Integrations

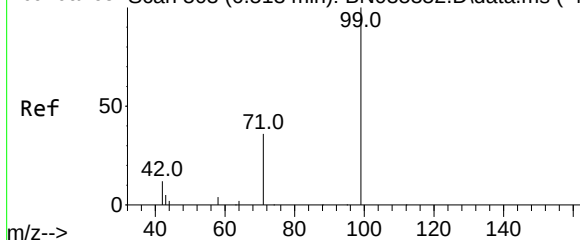
APPROVED

Reviewed By :Jagrut Upadhyay 12/23/2024  
Supervised By :mohammad ahmed 12/24/2024

Abundance Scan 284 (4.932 min): BN035763.D\data.ms (-25



Abundance Scan 503 (6.513 min): BN035352.D\data.ms (-49



#5

Phenol-d6

Concen: 0.057 ng

RT: 6.499 min Scan# 501

Delta R.T. 0.007 min

Lab File: BN035763.D

Acq: 21 Dec 2024 03:58

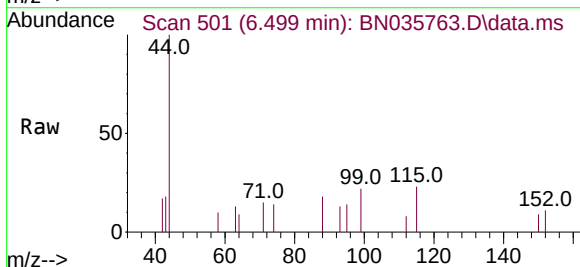
Tgt Ion: 99 Resp: 447

Ion Ratio Lower Upper

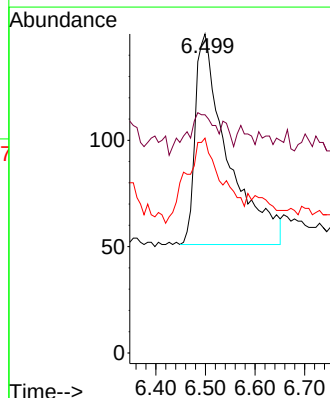
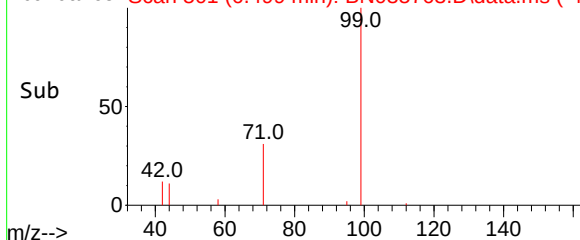
99 100

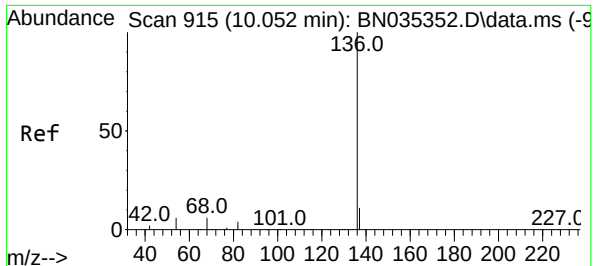
42 17.0 11.4 17.2

71 44.5 29.3 43.9#



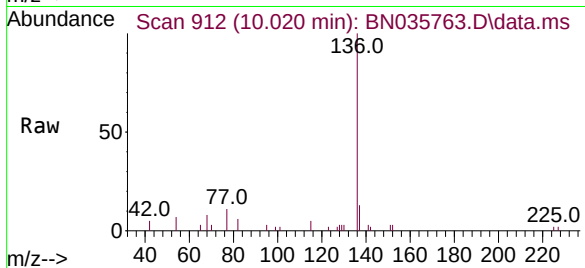
Abundance Scan 501 (6.499 min): BN035763.D\data.ms (-47





#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.020 min Scan# 915  
Delta R.T. -0.000 min  
Lab File: BN035763.D  
Acq: 21 Dec 2024 03:58

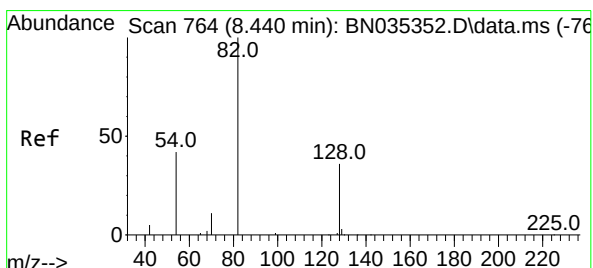
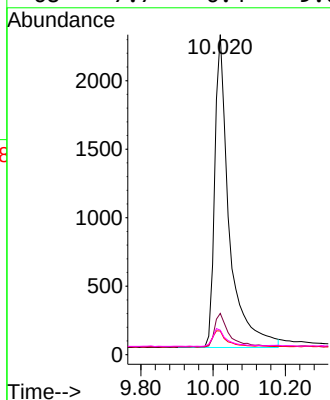
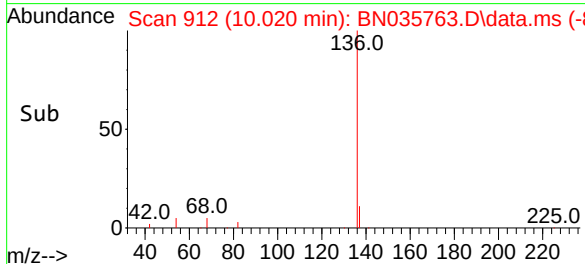
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP303-20241212



Tgt Ion: 136 Resp: 636  
Ion Ratio Lower Upper  
136 100  
137 12.9 10.2 15.2  
54 7.4 6.1 9.1  
68 7.7 6.4 9.6

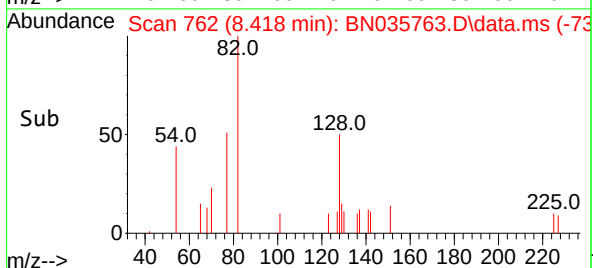
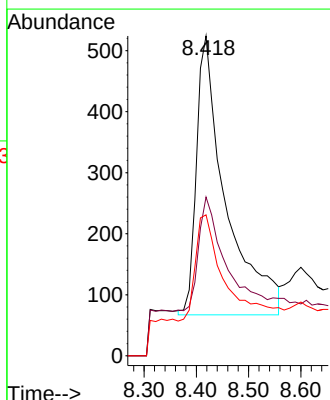
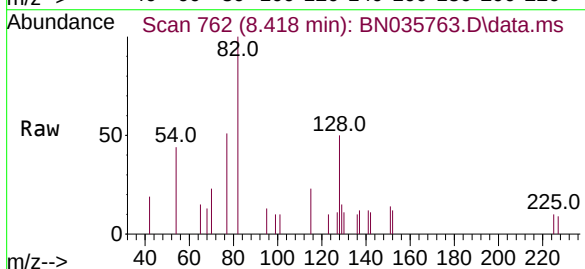
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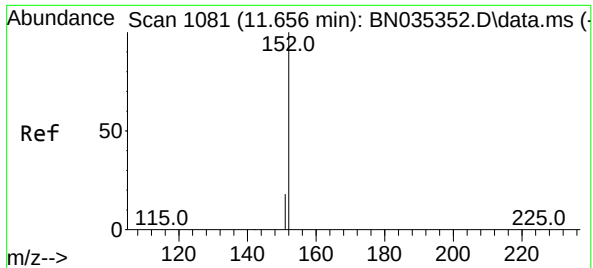
Reviewed By :Jagrut Upadhyay 12/23/2024  
Supervised By :mohammad ahmed 12/24/2024



#8  
Nitrobenzene-d5  
Concen: 0.458 ng m  
RT: 8.418 min Scan# 762  
Delta R.T. 0.011 min  
Lab File: BN035763.D  
Acq: 21 Dec 2024 03:58

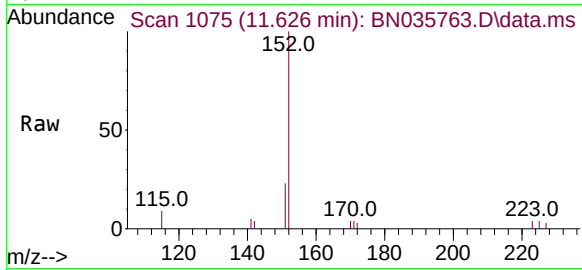
Tgt Ion: 82 Resp: 1779  
Ion Ratio Lower Upper  
82 100  
128 49.6 33.4 50.0  
54 44.1 36.7 55.1





#11  
2-Methylnaphthalene-d10  
Concen: 0.422 ng  
RT: 11.626 min Scan# 1081  
Delta R.T. 0.005 min  
Lab File: BN035763.D  
Acq: 21 Dec 2024 03:58

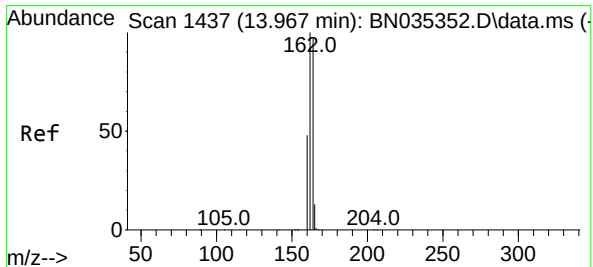
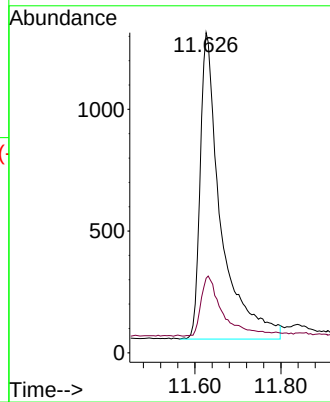
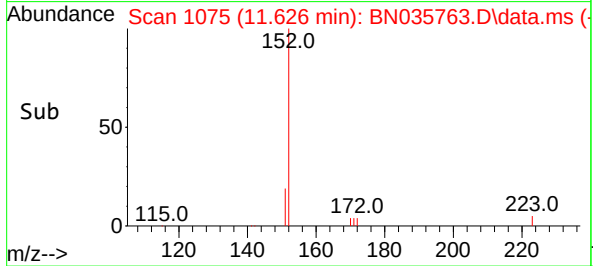
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP303-20241212



Tgt Ion:152 Resp: 420  
Ion Ratio Lower Upper  
152 100  
151 20.3 16.6 25.0

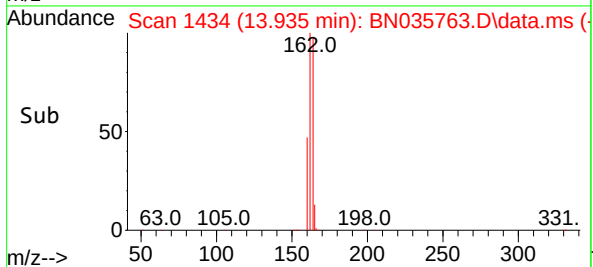
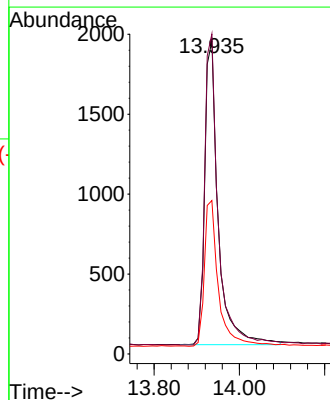
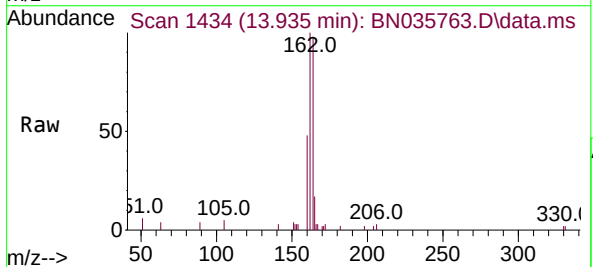
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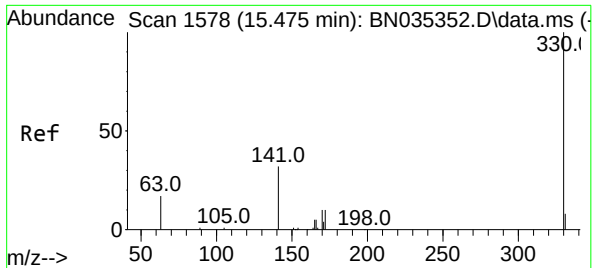
Reviewed By :Jagrut Upadhyay 12/23/2024  
Supervised By :mohammad ahmed 12/24/2024



#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.935 min Scan# 1434  
Delta R.T. -0.000 min  
Lab File: BN035763.D  
Acq: 21 Dec 2024 03:58

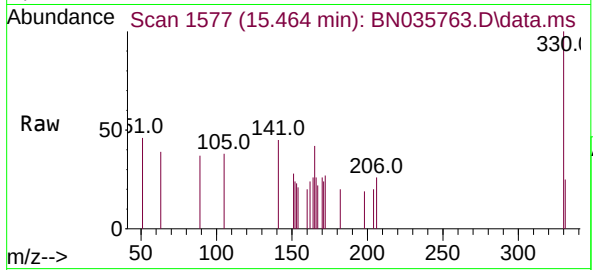
Tgt Ion:164 Resp: 4185  
Ion Ratio Lower Upper  
164 100  
162 102.2 82.2 123.2  
160 49.0 40.1 60.1





#14  
2,4,6-Tribromophenol  
Concen: 0.192 ng  
RT: 15.464 min Scan# 11  
Delta R.T. 0.011 min  
Lab File: BN035763.D  
Acq: 21 Dec 2024 03:58

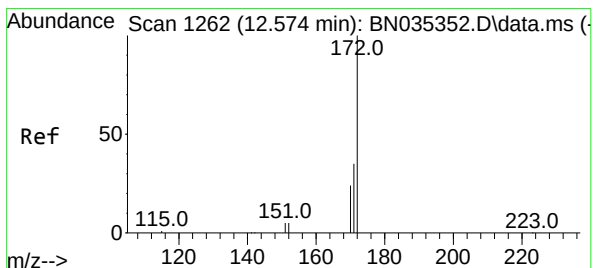
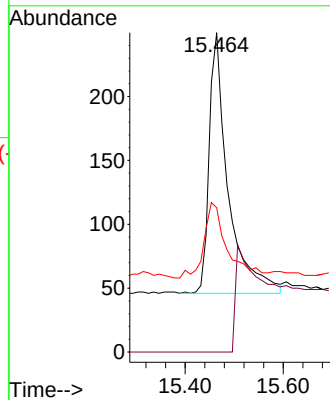
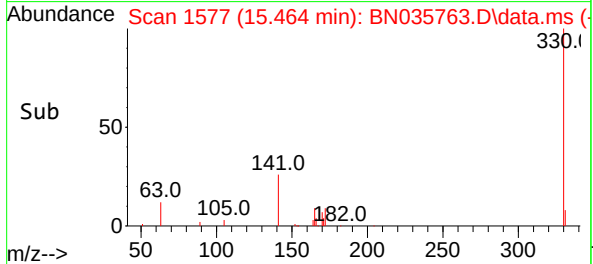
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP303-20241212



Tgt Ion:330 Resp: 570  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 34.9 26.6 40.0

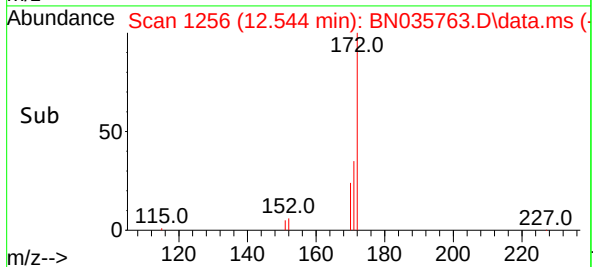
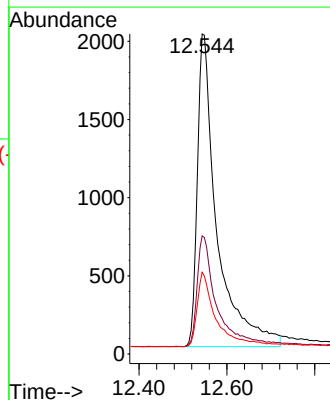
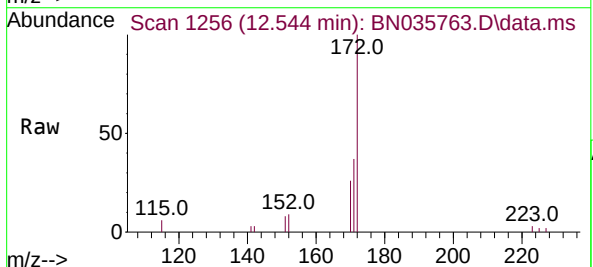
Manual Integrations  
APPROVED

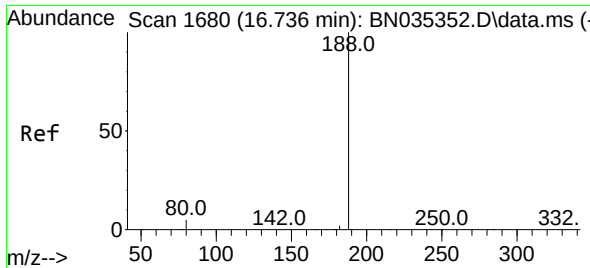
Reviewed By :Jagrut Upadhyay 12/23/2024  
Supervised By :mohammad ahmed 12/24/2024



#15  
2-Fluorobiphenyl  
Concen: 0.393 ng  
RT: 12.544 min Scan# 1256  
Delta R.T. -0.000 min  
Lab File: BN035763.D  
Acq: 21 Dec 2024 03:58

Tgt Ion:172 Resp: 6215  
Ion Ratio Lower Upper  
172 100  
171 36.9 29.0 43.4  
170 25.5 19.8 29.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.711 min Scan# 1

Delta R.T. 0.012 min

Lab File: BN035763.D

Acq: 21 Dec 2024 03:58

Instrument :

BNA\_N

ClientSampleId :

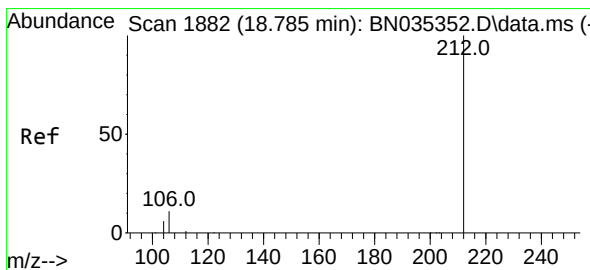
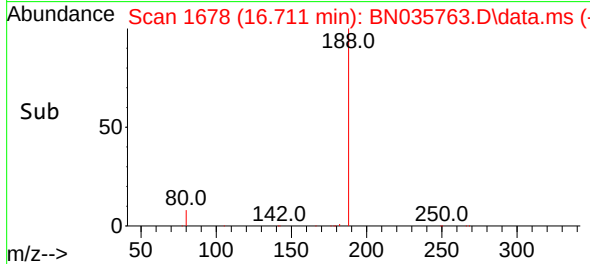
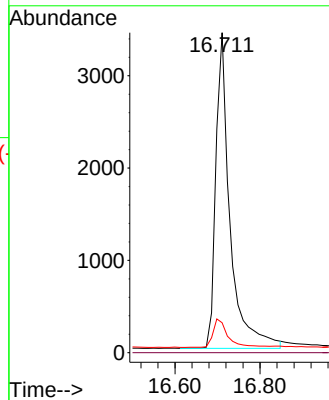
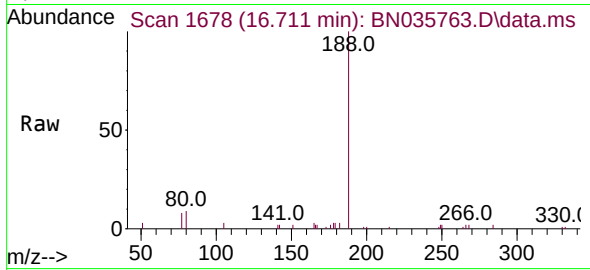
RW5-SP303-20241212

|             |       |       |
|-------------|-------|-------|
| Tgt Ion:188 | Resp: | 793   |
| Ion Ratio   | Lower | Upper |
| 188         | 100   |       |
| 94          | 0.0   | 0.0   |
| 80          | 9.3   | 4.6   |

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 12/23/2024  
Supervised By :mohammad ahmed 12/24/2024



#27

Fluoranthene-d10

Concen: 0.498 ng

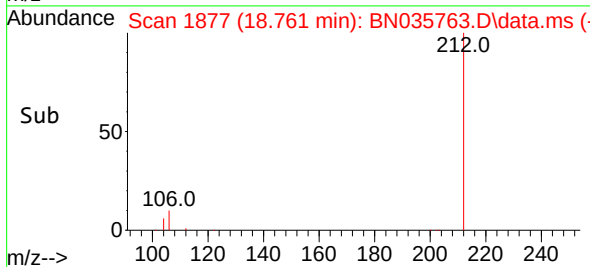
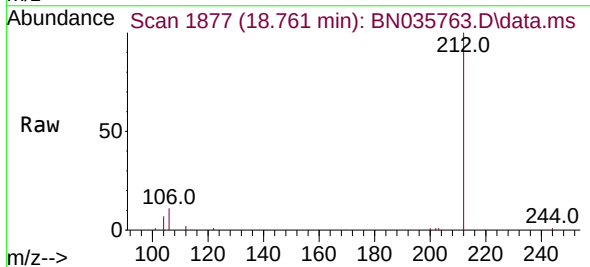
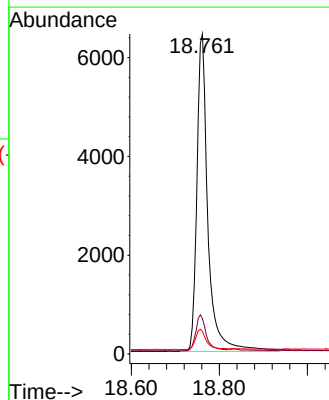
RT: 18.761 min Scan# 1877

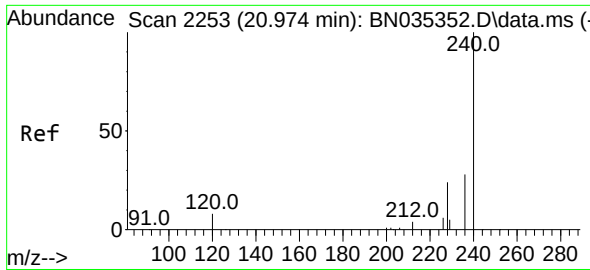
Delta R.T. -0.000 min

Lab File: BN035763.D

Acq: 21 Dec 2024 03:58

|             |       |       |
|-------------|-------|-------|
| Tgt Ion:212 | Resp: | 11188 |
| Ion Ratio   | Lower | Upper |
| 212         | 100   |       |
| 106         | 11.0  | 9.2   |
| 104         | 6.3   | 5.3   |





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.956 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035763.D

Acq: 21 Dec 2024 03:58

Instrument :

BNA\_N

ClientSampleId :

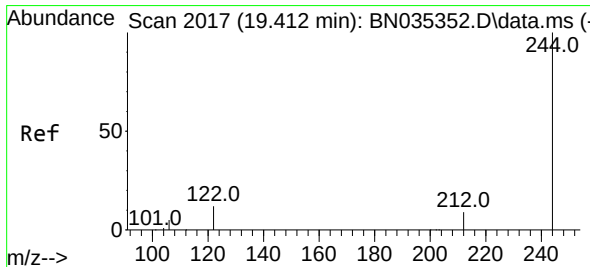
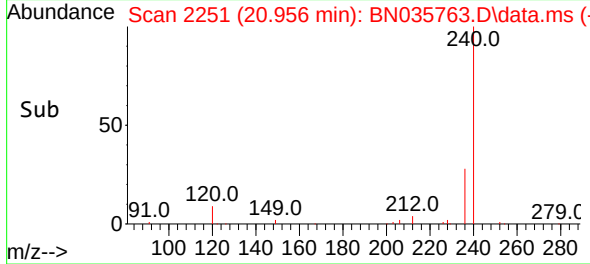
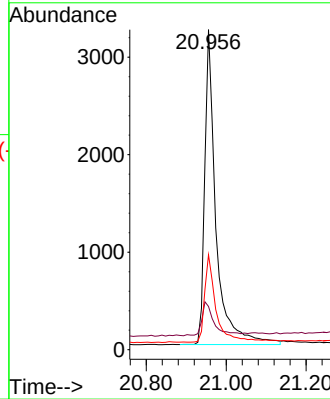
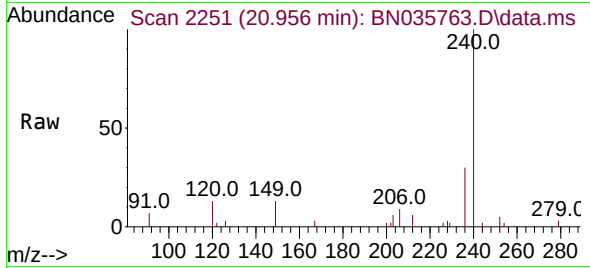
RW5-SP303-20241212

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:240 | Resp: | 633       |
| Ion Ratio   | Lower | Upper     |
| 240         | 100   |           |
| 120         | 13.5  | 7.9 11.9  |
| 236         | 29.6  | 22.9 34.3 |

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 12/23/2024  
Supervised By :mohammad ahmed 12/24/2024



#31

Terphenyl-d14

Concen: 0.646 ng

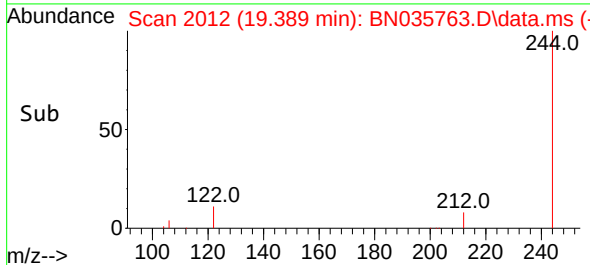
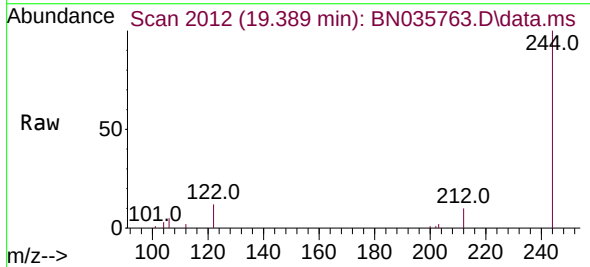
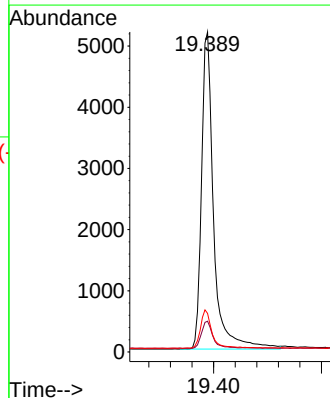
RT: 19.389 min Scan# 2012

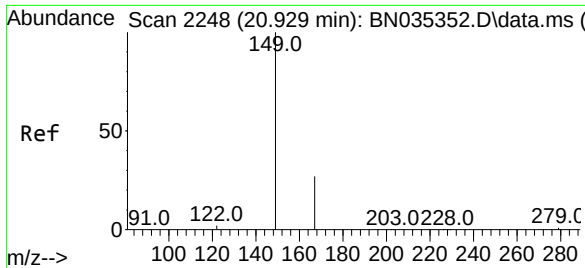
Delta R.T. -0.000 min

Lab File: BN035763.D

Acq: 21 Dec 2024 03:58

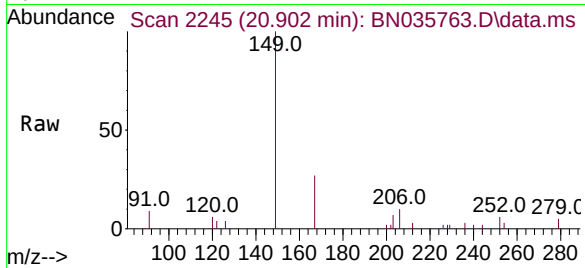
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:244 | Resp: | 8071      |
| Ion Ratio   | Lower | Upper     |
| 244         | 100   |           |
| 212         | 9.6   | 8.1 12.1  |
| 122         | 12.0  | 10.3 15.5 |





#34  
Bis(2-ethylhexyl)phthalate  
Concen: 0.323 ng  
RT: 20.902 min Scan# 21  
Delta R.T. -0.009 min  
Lab File: BN035763.D  
Acq: 21 Dec 2024 03:58

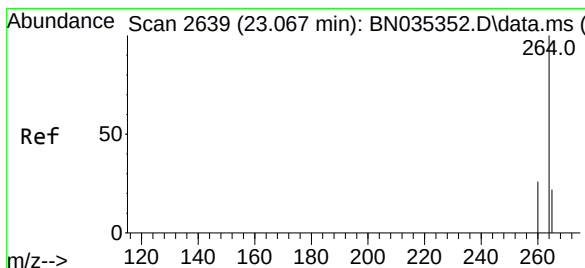
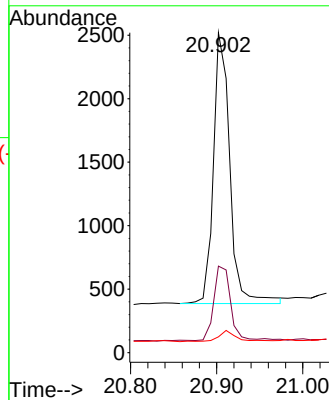
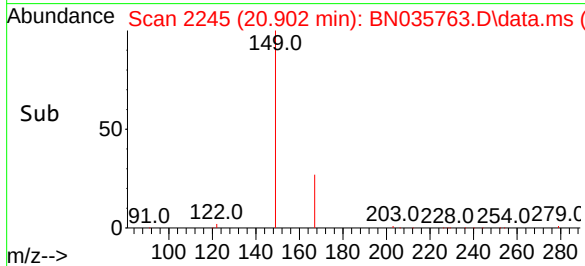
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP303-20241212



Tgt Ion:149 Resp: 282  
Ion Ratio Lower Upper  
149 100  
167 27.4 22.2 33.4  
279 4.5 2.7 4.1

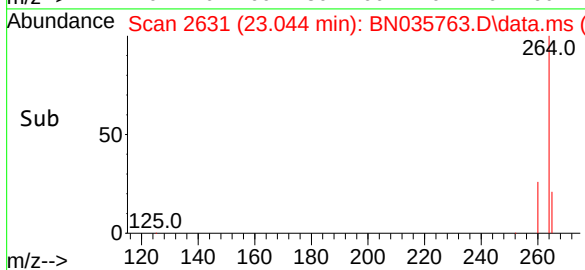
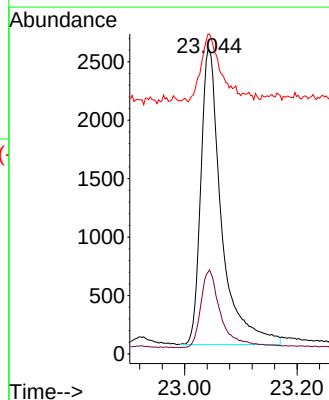
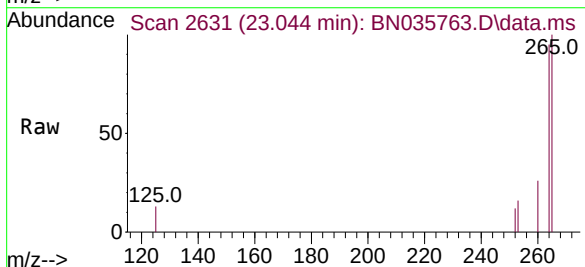
Manual Integrations  
APPROVED

Reviewed By :Jagrut Upadhyay 12/23/2024  
Supervised By :mohammad ahmed 12/24/2024



#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.044 min Scan# 2631  
Delta R.T. 0.003 min  
Lab File: BN035763.D  
Acq: 21 Dec 2024 03:58

Tgt Ion:264 Resp: 6481  
Ion Ratio Lower Upper  
264 100  
260 27.7 21.4 32.2  
265 105.4 40.2 60.4







# CALIBRATION SUMMARY

Method Path : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\  
 Method File : 8270-SIM-BN112724.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 Last Update : Wed Nov 27 23:03:24 2024  
 Response Via : Initial Calibration

## Calibration Files

0.1 =BN035350.D 0.2 =BN035351.D 0.4 =BN035352.D 0.8 =BN035353.D 1.6 =BN035354.D 3.2 =BN035355.D 5.0 =BN035356.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           | 0.406          | 0.417 | 0.376 | 0.380 | 0.392 | 0.357 | 0.348 | 0.382 | 6.52  |
| 3)        | n-Nitrosodimet...     | 0.334          | 0.302 | 0.326 | 0.315 | 0.332 | 0.310 | 0.309 | 0.319 | 3.92  |
| 4) S      | 2-Fluorophenol        | 1.025          | 1.112 | 1.018 | 0.958 | 0.998 | 0.954 | 0.942 | 1.001 | 5.88  |
| 5) S      | Phenol-d6             | 1.227          | 1.186 | 1.193 | 1.143 | 1.235 | 1.215 | 1.229 | 1.204 | 2.69  |
| 6)        | bis(2-Chloroet...     | 1.035          | 1.021 | 0.992 | 0.993 | 1.051 | 0.997 | 0.991 | 1.012 | 2.39  |
|           |                       |                |       |       |       |       |       |       |       |       |
| 7) I      | Naphthalene-d8        | -----ISTD----- |       |       |       |       |       |       |       |       |
| 8) S      | Nitrobenzene-d5       | 0.227          | 0.232 | 0.235 | 0.248 | 0.257 | 0.251 | 0.261 | 0.244 | 5.31  |
| 9)        | Naphthalene           | 1.062          | 1.029 | 1.047 | 1.032 | 1.096 | 1.049 | 1.070 | 1.055 | 2.22  |
| 10)       | Hexachlorobuta...     | 0.245          | 0.242 | 0.247 | 0.241 | 0.255 | 0.236 | 0.238 | 0.243 | 2.60  |
| 11) SURR2 | Methylnaphth...       | 0.591          | 0.603 | 0.619 | 0.615 | 0.659 | 0.639 | 0.656 | 0.626 | 4.16  |
| 12)       | 2-Methylnaphth...     | 0.724          | 0.716 | 0.740 | 0.747 | 0.795 | 0.771 | 0.795 | 0.755 | 4.25  |
|           |                       |                |       |       |       |       |       |       |       |       |
| 13) I     | Acenaphthene-d10      | -----ISTD----- |       |       |       |       |       |       |       |       |
| 14) S     | 2,4,6-Tribromo...     | 0.273          | 0.258 | 0.257 | 0.268 | 0.293 | 0.311 | 0.328 | 0.284 | 9.67  |
| 15) S     | 2-Fluorobiphenyl      | 1.489          | 1.491 | 1.510 | 1.508 | 1.566 | 1.511 | 1.511 | 1.512 | 1.68  |
| 16)       | Acenaphthylene        | 1.643          | 1.600 | 1.595 | 1.638 | 1.737 | 1.763 | 1.781 | 1.680 | 4.68  |
| 17)       | Acenaphthene          | 1.121          | 1.084 | 1.086 | 1.108 | 1.145 | 1.122 | 1.140 | 1.115 | 2.17  |
| 18)       | Fluorene              | 1.589          | 1.549 | 1.543 | 1.600 | 1.652 | 1.614 | 1.625 | 1.596 | 2.47  |
|           |                       |                |       |       |       |       |       |       |       |       |
| 19) I     | Phenanthrene-d10      | -----ISTD----- |       |       |       |       |       |       |       |       |
| 20)       | 4,6-Dinitro-2-...     | 0.038          | 0.031 | 0.036 | 0.041 | 0.051 |       |       | 0.039 | 19.30 |
| 21)       | 4-Bromophenyl-...     | 0.226          | 0.218 | 0.226 | 0.233 | 0.249 | 0.242 | 0.244 | 0.234 | 4.85  |
| 22)       | Hexachlorobenzene     | 0.265          | 0.266 | 0.273 | 0.276 | 0.288 | 0.278 | 0.277 | 0.275 | 2.82  |
| 23)       | Atrazine              | 0.155          | 0.155 | 0.154 | 0.156 | 0.175 | 0.179 | 0.191 | 0.167 | 8.98  |
| 24)       | Pentachlorophenol     | 0.140          | 0.090 | 0.095 | 0.103 | 0.121 | 0.136 | 0.150 | 0.120 | 19.86 |
| 25)       | Phenanthrene          | 1.092          | 1.046 | 1.067 | 1.092 | 1.148 | 1.121 | 1.125 | 1.099 | 3.20  |
| 26)       | Anthracene            | 0.964          | 0.923 | 0.940 | 0.973 | 1.050 | 1.042 | 1.064 | 0.994 | 5.76  |
| 27) SURR  | Fluoranthene-d10      | 1.203          | 1.086 | 1.077 | 1.105 | 1.165 | 1.138 | 1.164 | 1.134 | 4.10  |
| 28)       | Fluoranthene          | 1.538          | 1.396 | 1.416 | 1.456 | 1.539 | 1.497 | 1.526 | 1.481 | 3.99  |
|           |                       |                |       |       |       |       |       |       |       |       |
| 29) I     | Chrysene-d12          | -----ISTD----- |       |       |       |       |       |       |       |       |
| 30)       | Pyrene                | 1.583          | 1.445 | 1.475 | 1.443 | 1.519 | 1.440 | 1.431 | 1.477 | 3.79  |
| 31) S     | Terphenyl-d14         | 0.832          | 0.777 | 0.791 | 0.771 | 0.812 | 0.772 | 0.769 | 0.789 | 3.08  |
| 32)       | Benzo(a)anthra...     | 1.431          | 1.343 | 1.355 | 1.375 | 1.451 | 1.411 | 1.429 | 1.399 | 2.98  |
| 33)       | Chrysene              | 1.463          | 1.452 | 1.441 | 1.415 | 1.487 | 1.422 | 1.420 | 1.443 | 1.84  |
| 34)       | Bis(2-ethylhex...     | 0.710          | 0.558 | 0.516 | 0.505 | 0.520 | 0.516 | 0.544 | 0.553 | 12.96 |
|           |                       |                |       |       |       |       |       |       |       |       |
| 35) I     | Perylene-d12          | -----ISTD----- |       |       |       |       |       |       |       |       |

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

Method File : 8270-SIM-BN112724.M

|       |                   |       |       |       |       |       |       |       |       |       |
|-------|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 36)   | Indeno(1,2,3-c... | 1.411 | 1.489 | 1.532 | 1.554 | 1.660 | 1.615 | 1.685 | 1.564 | 6.22  |
| 37)   | Benzo(b)fluora... | 1.305 | 1.348 | 1.313 | 1.378 | 1.827 | 1.463 | 1.608 | 1.463 | 13.12 |
| 38)   | Benzo(k)fluora... | 1.444 | 1.376 | 1.402 | 1.419 | 1.527 | 1.447 | 1.468 | 1.440 | 3.39  |
| 39) C | Benzo(a)pyrene    | 1.204 | 1.156 | 1.146 | 1.171 | 1.256 | 1.232 | 1.271 | 1.205 | 4.11  |
| 40)   | Dibenzo(a,h)an... | 1.104 | 1.187 | 1.194 | 1.226 | 1.315 | 1.280 | 1.332 | 1.234 | 6.55  |
| 41)   | Benzo(g,h,i)pe... | 1.188 | 1.238 | 1.248 | 1.269 | 1.360 | 1.330 | 1.394 | 1.289 | 5.71  |

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

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112724\  
 Data File : BN035350.D  
 Acq On : 27 Nov 2024 15:34  
 Operator : RC/JU  
 Sample : SSTDICC0.1  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC0.1

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 11/29/2024  
 Supervised By :mohammad ahmed 12/03/2024

Quant Time: Nov 27 22:52:09 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Nov 27 22:48:24 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.308  | 152  | 2237     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.052 | 136  | 5753     | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 13.967 | 164  | 4077     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 16.736 | 188  | 10855    | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 20.974 | 240  | 11269    | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.067 | 264  | 13004    | 0.400 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 4.968  | 112  | 573      | 0.101 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.513  | 99   | 686      | 0.096 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.450  | 82   | 327m     | 0.065 | ng    | 0.01     |
| 11) 2-Methylnaphthalene-d10   | 11.661 | 152  | 850      | 0.083 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.475 | 330  | 278      | 0.095 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.574 | 172  | 1518     | 0.092 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 18.785 | 212  | 3265     | 0.098 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.412 | 244  | 2344     | 0.099 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
|                               |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.003  | 88   | 227      | 0.112 | ng    | # 87     |
| 3) n-Nitrosodimethylamine     | 3.299  | 42   | 187      | 0.099 | ng    | # 90     |
| 6) bis(2-Chloroethyl)ether    | 6.759  | 93   | 579      | 0.108 | ng    | 98       |
| 9) Naphthalene                | 10.105 | 128  | 1527     | 0.102 | ng    | # 91     |
| 10) Hexachlorobutadiene       | 10.404 | 225  | 352      | 0.080 | ng    | # 97     |
| 12) 2-Methylnaphthalene       | 11.737 | 142  | 1042     | 0.094 | ng    | 96       |
| 16) Acenaphthylene            | 13.679 | 152  | 1675     | 0.096 | ng    | 100      |
| 17) Acenaphthene              | 14.031 | 154  | 1143     | 0.100 | ng    | 99       |
| 18) Fluorene                  | 15.026 | 166  | 1620     | 0.096 | ng    | 98       |
| 20) 4,6-Dinitro-2-methylph... | 15.133 | 198  | 103      | 0.046 | ng    | # 29     |
| 21) 4-Bromophenyl-phenylether | 15.941 | 248  | 612      | 0.088 | ng    | # 94     |
| 22) Hexachlorobenzene         | 16.041 | 284  | 720      | 0.100 | ng    | 97       |
| 23) Atrazine                  | 16.227 | 200  | 421      | 0.068 | ng    | # 86     |
| 24) Pentachlorophenol         | 16.401 | 266  | 381      | 0.114 | ng    | 90       |
| 25) Phenanthrene              | 16.773 | 178  | 2963     | 0.104 | ng    | 99       |
| 26) Anthracene                | 16.860 | 178  | 2617     | 0.100 | ng    | 98       |
| 28) Fluoranthene              | 18.817 | 202  | 4173     | 0.106 | ng    | 99       |
| 30) Pyrene                    | 19.184 | 202  | 4461     | 0.119 | ng    | 100      |
| 32) Benzo(a)anthracene        | 20.956 | 228  | 4031     | 0.103 | ng    | 99       |
| 33) Chrysene                  | 21.010 | 228  | 4123     | 0.106 | ng    | 97       |
| 34) Bis(2-ethylhexyl)phtha... | 20.929 | 149  | 1999     | 0.097 | ng    | 99       |
| 36) Indeno(1,2,3-cd)pyrene    | 25.105 | 276  | 4586     | 0.088 | ng    | 97       |
| 37) Benzo(b)fluoranthene      | 22.456 | 252  | 4243     | 0.097 | ng    | # 82     |
| 38) Benzo(k)fluoranthene      | 22.494 | 252  | 4695m    | 0.107 | ng    |          |
| 39) Benzo(a)pyrene            | 22.977 | 252  | 3913     | 0.102 | ng    | # 69     |
| 40) Dibenzo(a,h)anthracene    | 25.126 | 278  | 3588     | 0.087 | ng    | # 86     |
| 41) Benzo(g,h,i)perylene      | 25.725 | 276  | 3863     | 0.088 | ng    | # 93     |
| -----                         |        |      |          |       |       |          |

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

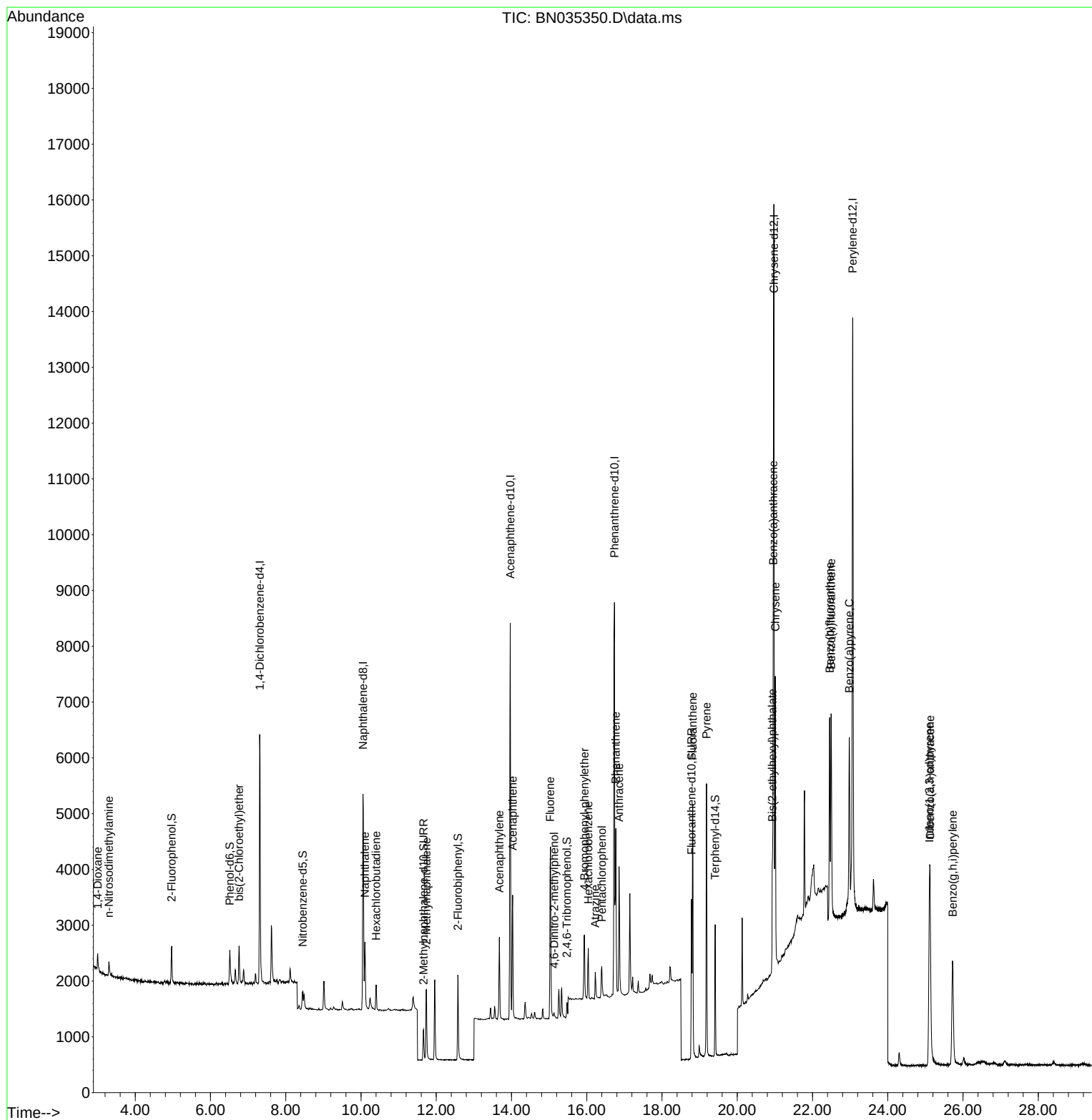
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112724\  
 Data File : BN035350.D  
 Acq On : 27 Nov 2024 15:34  
 Operator : RC/JU  
 Sample : SSTDICC0.1  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

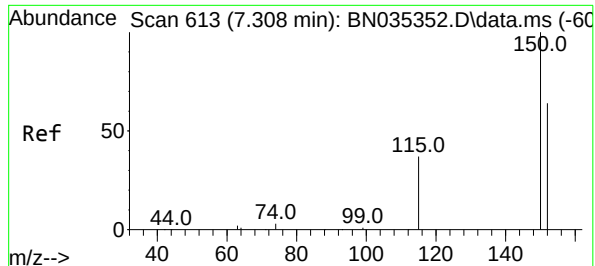
Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC0.1

### Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/29/2024  
 Supervised By :mohammad ahmed 12/03/2024

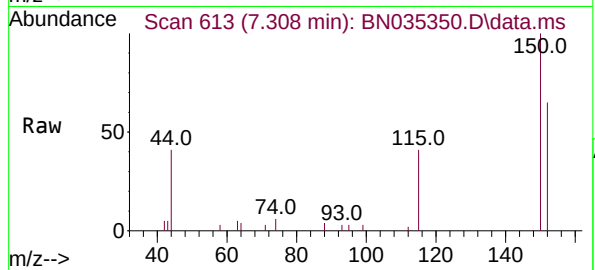
Quant Time: Nov 27 22:52:09 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Nov 27 22:48:24 2024  
 Response via : Initial Calibration





#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.308 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

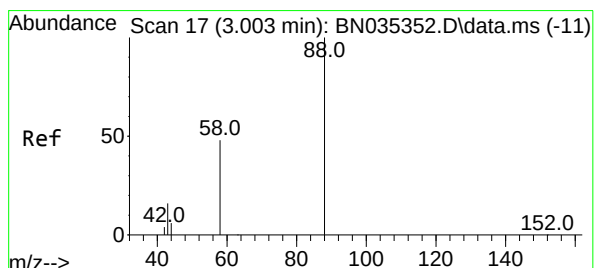
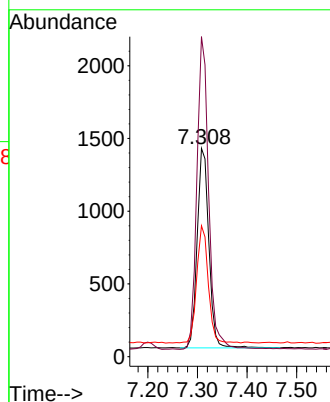
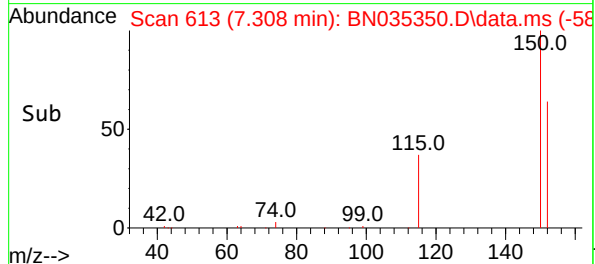
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1



Tgt Ion:152 Resp: 223  
Ion Ratio Lower Upper  
152 100  
150 153.6 124.0 186.0  
115 62.8 49.6 74.4

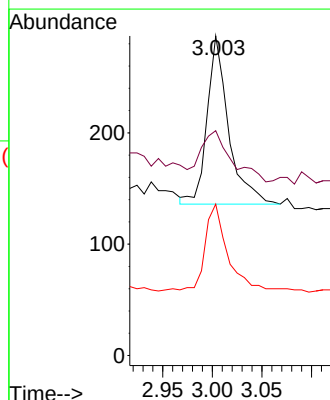
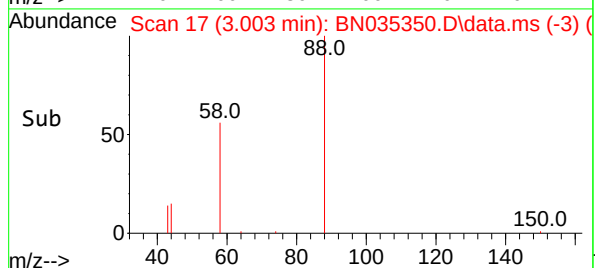
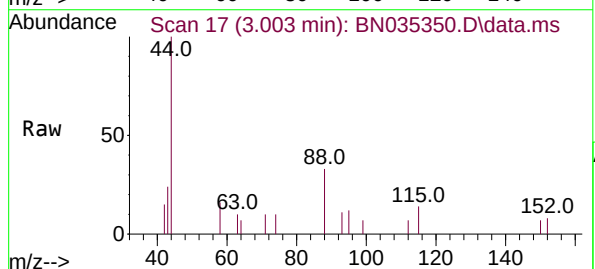
Manual Integrations  
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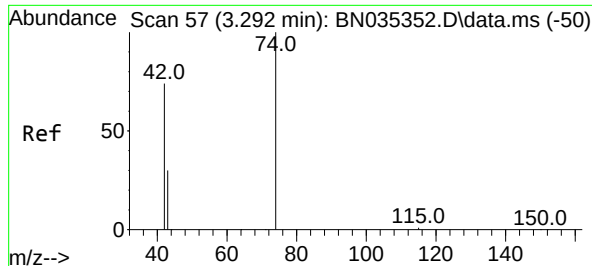
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#2  
1,4-Dioxane  
Concen: 0.112 ng  
RT: 3.003 min Scan# 17  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

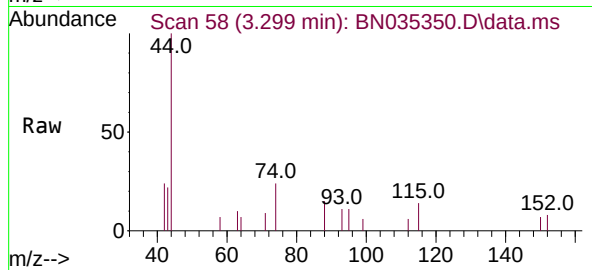
Tgt Ion: 88 Resp: 227  
Ion Ratio Lower Upper  
88 100  
43 41.4 17.2 25.8#  
58 54.6 44.5 66.7





#3  
n-Nitrosodimethylamine  
Concen: 0.099 ng  
RT: 3.299 min Scan# 50  
Delta R.T. 0.007 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

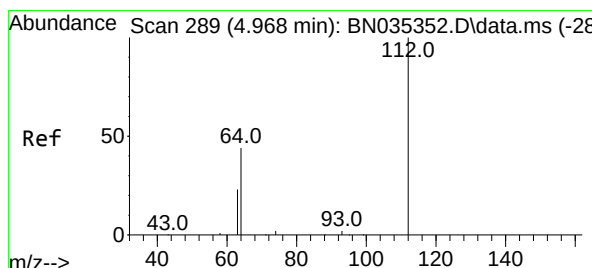
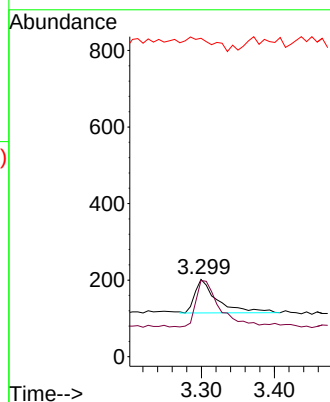
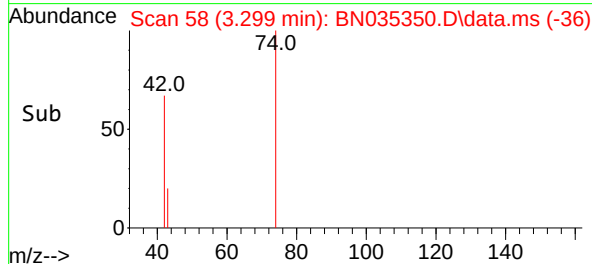
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1



Tgt Ion: 42 Resp: 187  
Ion Ratio Lower Upper  
42 100  
74 146.5 124.9 187.3  
44 51.9 2.2 3.4

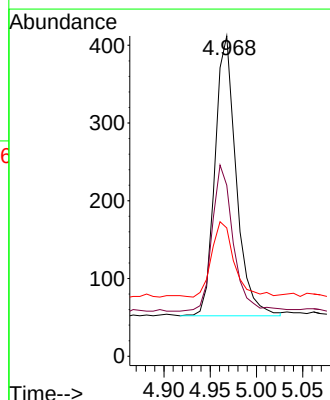
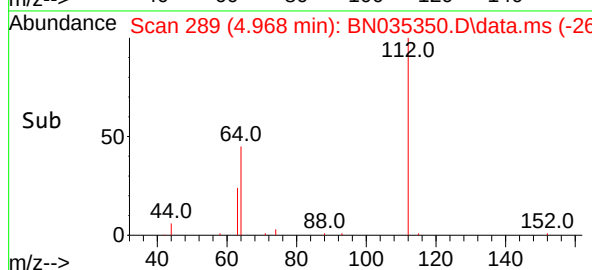
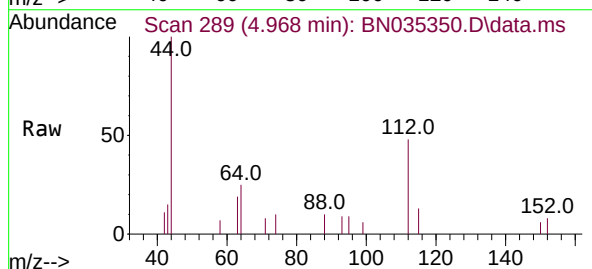
Manual Integrations  
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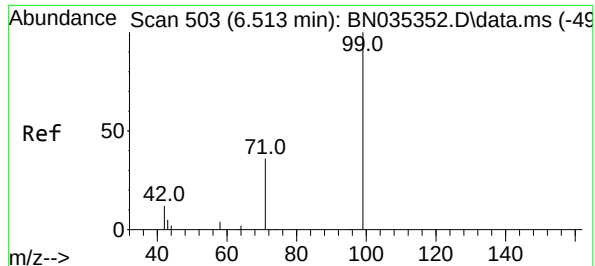
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#4  
2-Fluorophenol  
Concen: 0.101 ng  
RT: 4.968 min Scan# 289  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

Tgt Ion:112 Resp: 573  
Ion Ratio Lower Upper  
112 100  
64 52.0 39.8 59.8  
63 28.8 21.0 31.6





#5

Phenol-d6

Concen: 0.096 ng

RT: 6.513 min Scan# 503

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

Instrument :

BNA\_N

ClientSampleId :

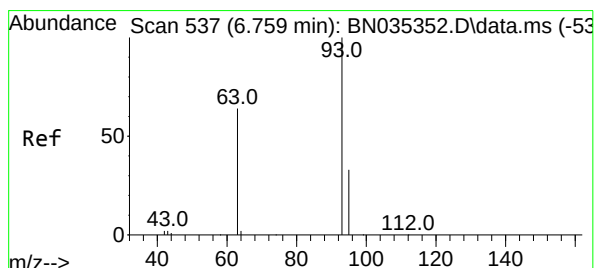
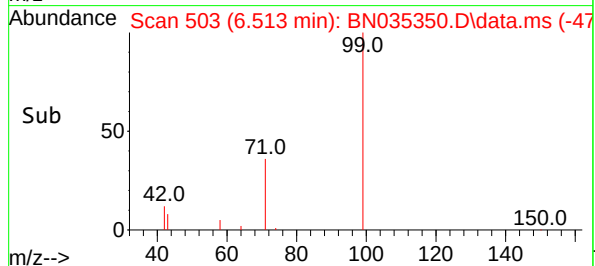
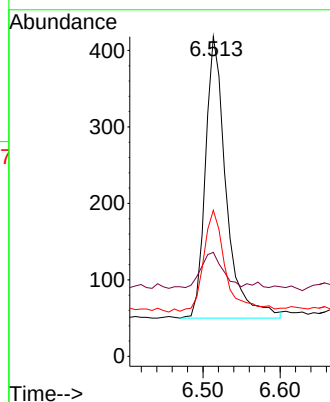
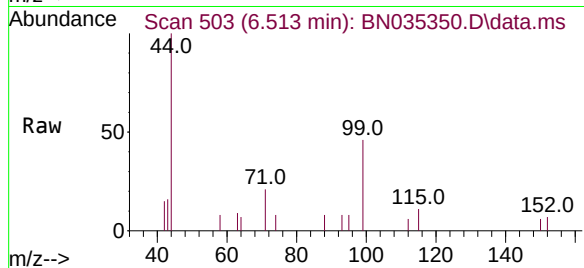
SSTDICC0.1

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 99    | Resp: | 680   |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 13.7  | 11.4  | 17.2  |
| 71       | 38.9  | 29.3  | 43.9  |

Manual Integrations

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Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#6

bis(2-Chloroethyl)ether

Concen: 0.108 ng

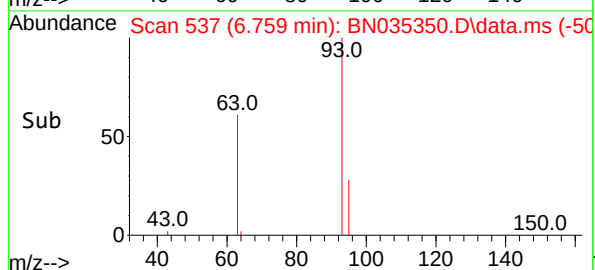
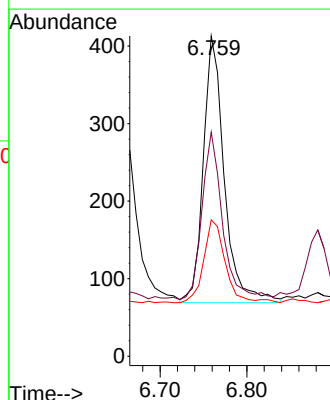
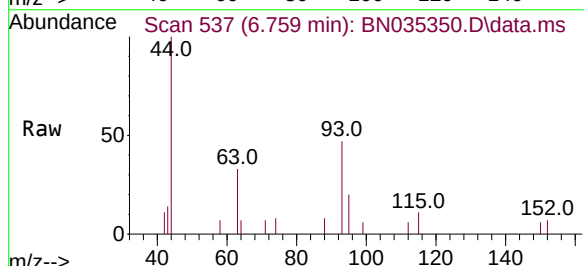
RT: 6.759 min Scan# 537

Delta R.T. 0.000 min

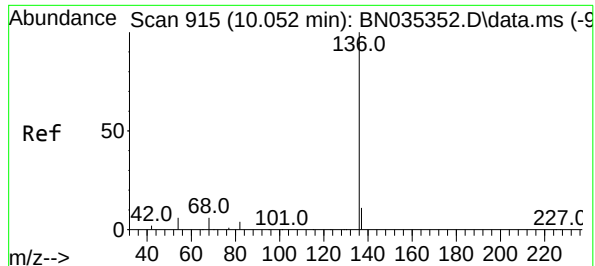
Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 93    | Resp: | 579   |
| Ion      | Ratio | Lower | Upper |
| 93       | 100   |       |       |
| 63       | 61.7  | 50.4  | 75.6  |
| 95       | 31.3  | 25.7  | 38.5  |

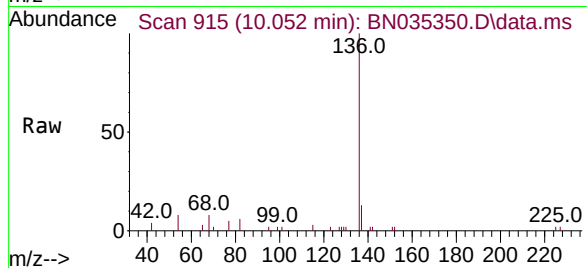






#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.052 min Scan# 915  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

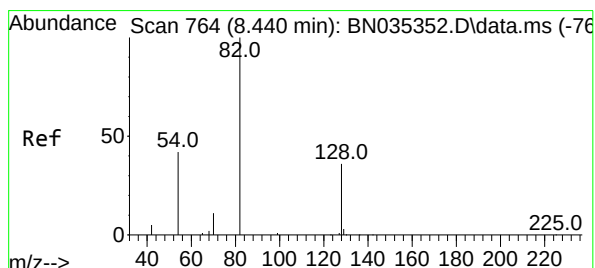
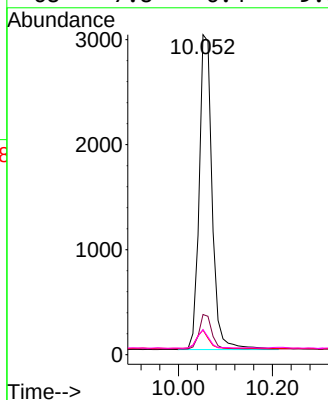
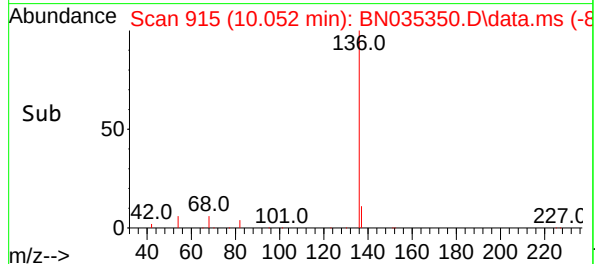
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1



Tgt Ion: 136 Resp: 575  
Ion Ratio Lower Upper  
136 100  
137 12.6 10.2 15.2  
54 7.7 6.1 9.1  
68 7.8 6.4 9.6

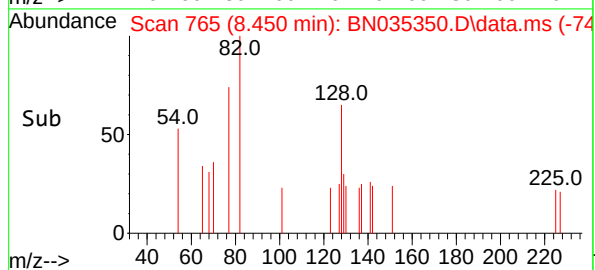
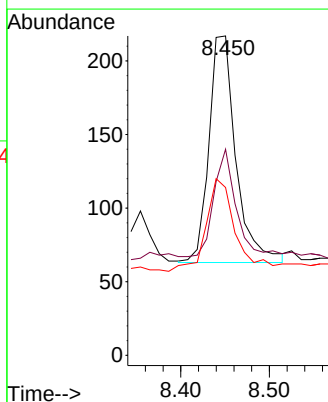
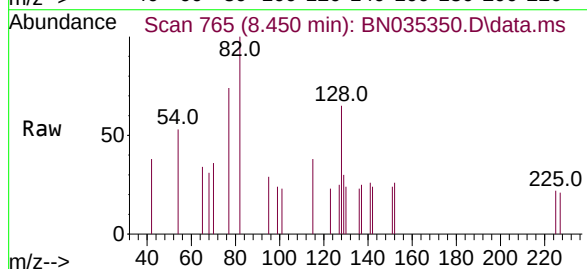
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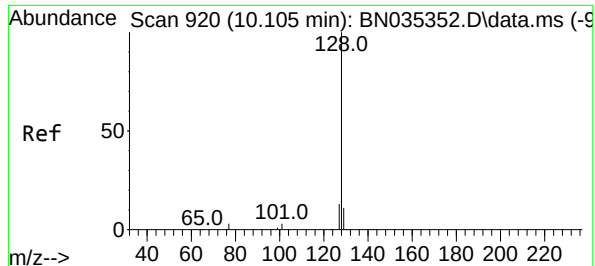
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#8  
Nitrobenzene-d5  
Concen: 0.065 ng m  
RT: 8.450 min Scan# 765  
Delta R.T. 0.011 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

Tgt Ion: 82 Resp: 327  
Ion Ratio Lower Upper  
82 100  
128 64.5 33.4 50.0#  
54 52.5 36.7 55.1





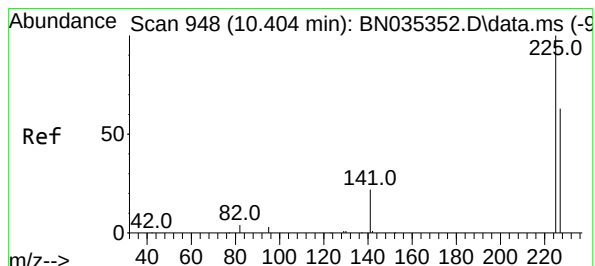
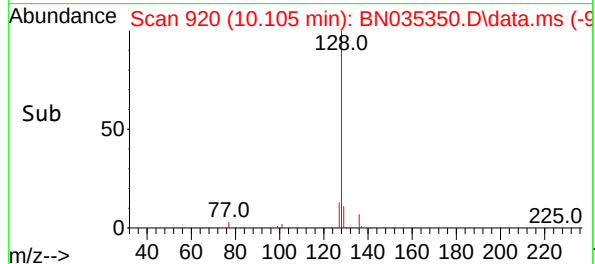
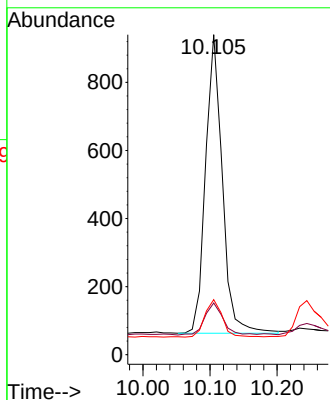
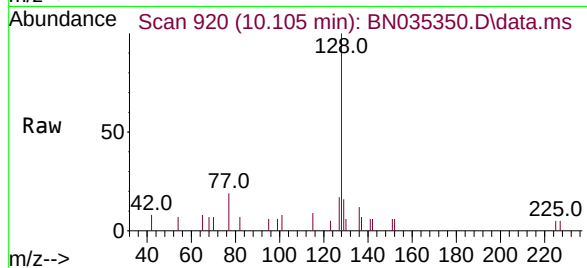
#9  
Naphthalene  
Concen: 0.102 ng  
RT: 10.105 min Scan# 912  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

Tgt Ion:128 Resp: 152  
Ion Ratio Lower Upper  
128 100  
129 16.2 9.8 14.6  
127 17.2 11.4 17.2

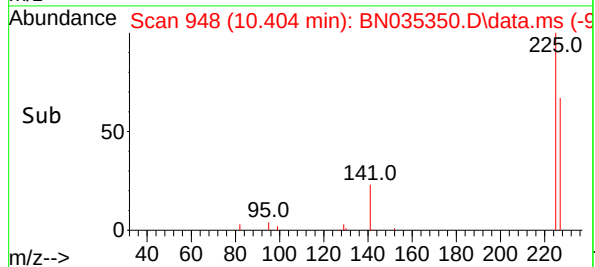
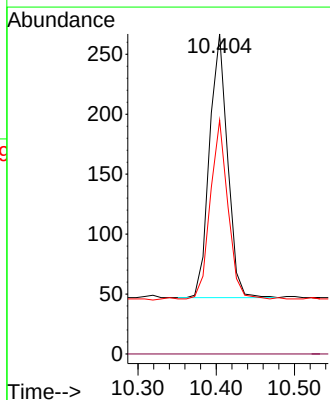
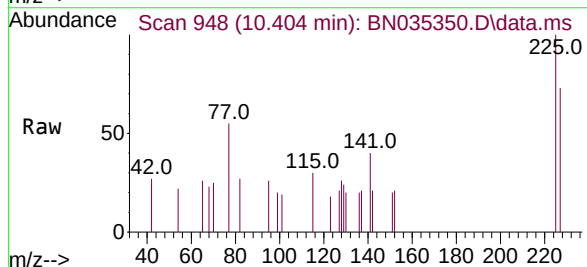
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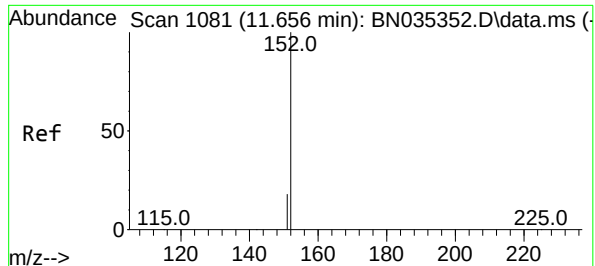
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#10  
Hexachlorobutadiene  
Concen: 0.080 ng  
RT: 10.404 min Scan# 948  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

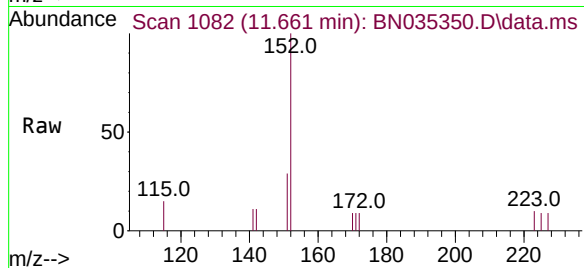
Tgt Ion:225 Resp: 352  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 66.2 51.3 76.9





#11  
2-Methylnaphthalene-d10  
Concen: 0.083 ng  
RT: 11.661 min Scan# 1081  
Delta R.T. 0.005 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

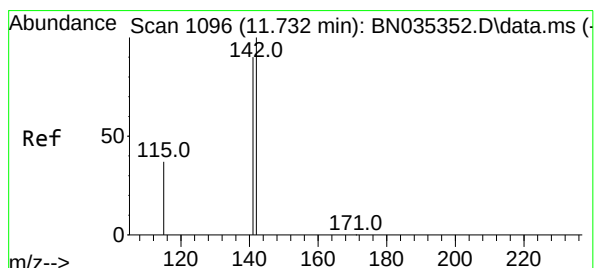
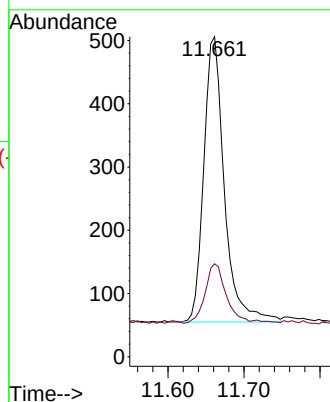
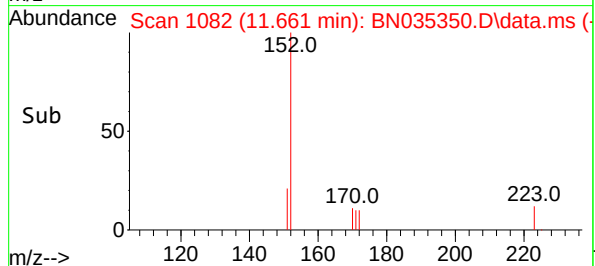
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1



Tgt Ion:152 Resp: 850  
Ion Ratio Lower Upper  
152 100  
151 21.1 16.6 25.0

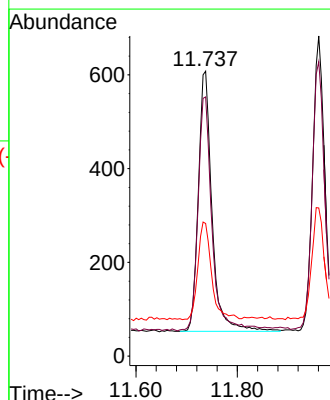
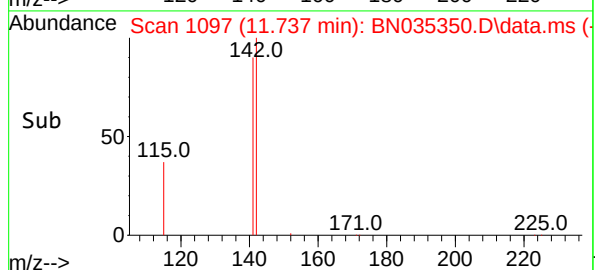
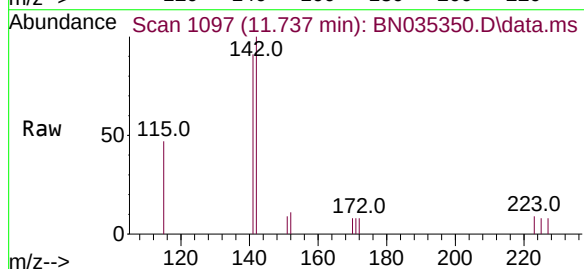
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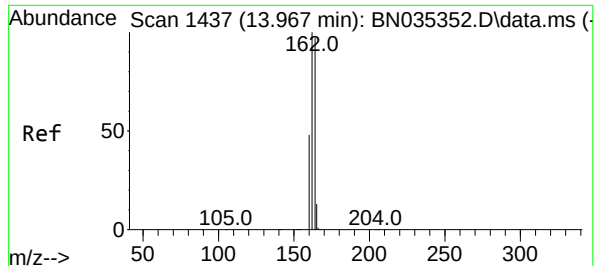
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#12  
2-Methylnaphthalene  
Concen: 0.094 ng  
RT: 11.737 min Scan# 1097  
Delta R.T. 0.005 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

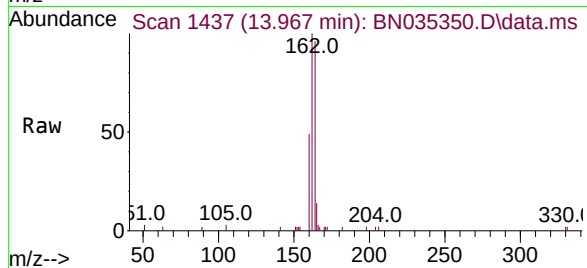
Tgt Ion:142 Resp: 1042  
Ion Ratio Lower Upper  
142 100  
141 91.0 72.2 108.4  
115 46.5 31.4 47.0





#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.967 min Scan# 1437  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

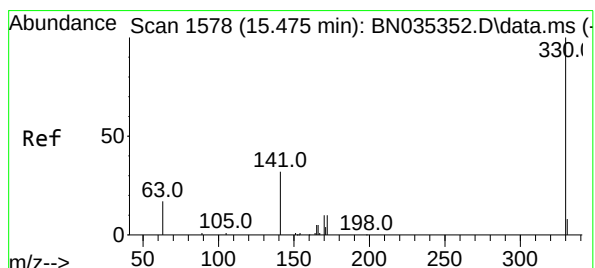
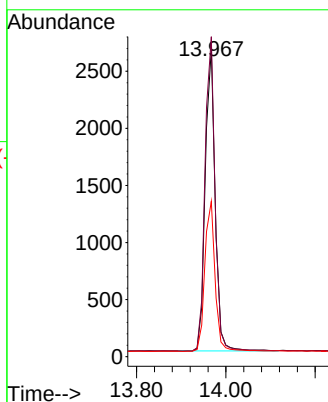
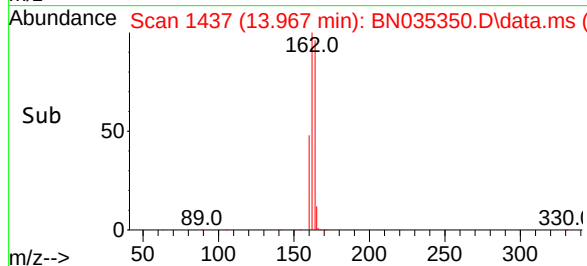
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1



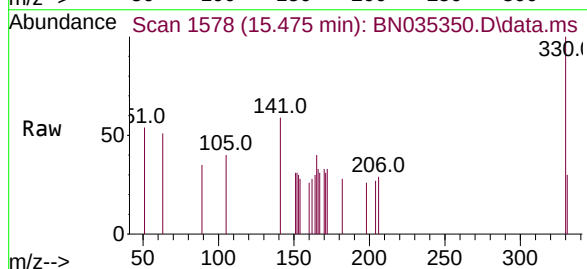
Tgt Ion:164 Resp: 407  
Ion Ratio Lower Upper  
164 100  
162 103.9 82.2 123.2  
160 50.4 40.1 60.1

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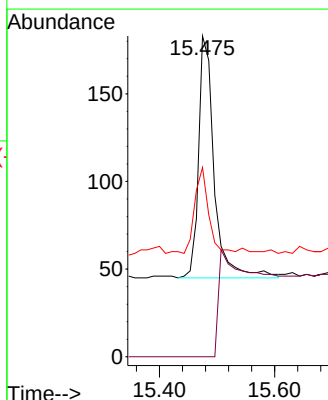
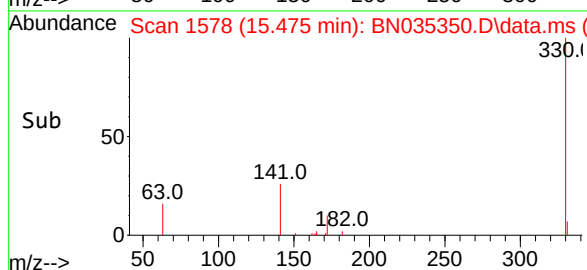
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024

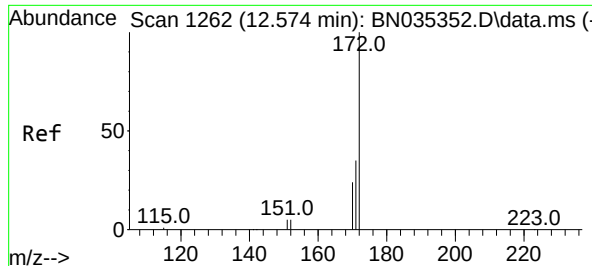


#14  
2,4,6-Tribromophenol  
Concen: 0.095 ng  
RT: 15.475 min Scan# 1578  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34



Tgt Ion:330 Resp: 278  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 29.1 26.6 40.0





#15

2-Fluorobiphenyl

Concen: 0.092 ng

RT: 12.574 min Scan# 1262

Delta R.T. 0.000 min

Lab File: BN035350.D

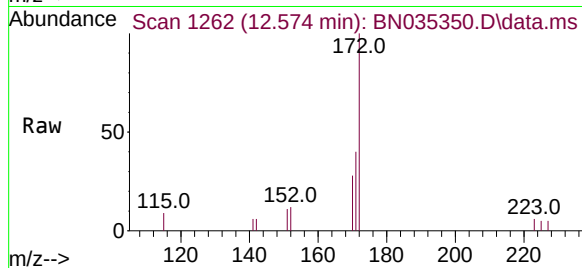
Acq: 27 Nov 2024 15:34

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.1



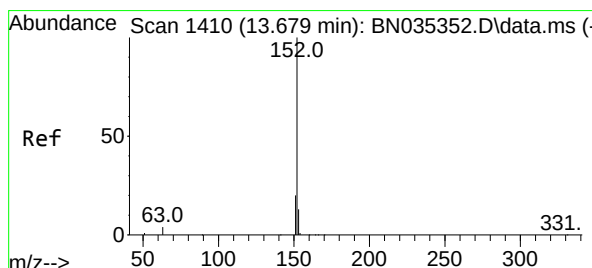
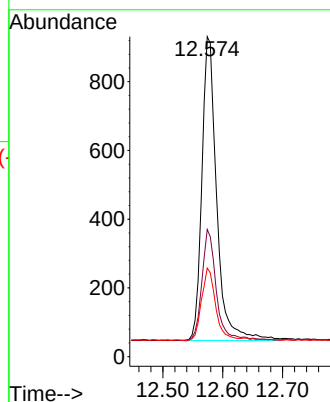
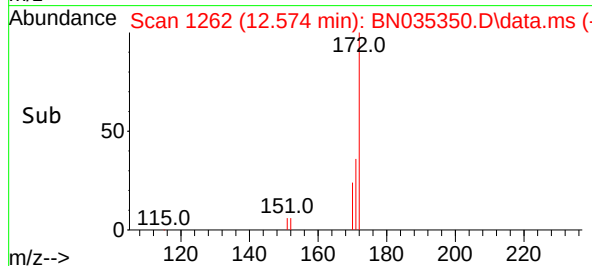
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 39.7  | 29.0  | 43.4  |
| 170     | 27.7  | 19.8  | 29.8  |

Manual Integrations

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Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024



#16

Acenaphthylene

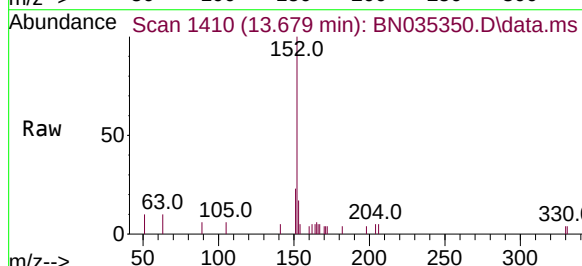
Concen: 0.096 ng

RT: 13.679 min Scan# 1410

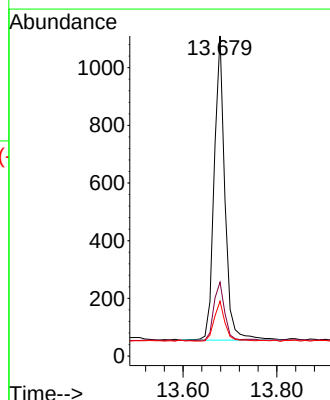
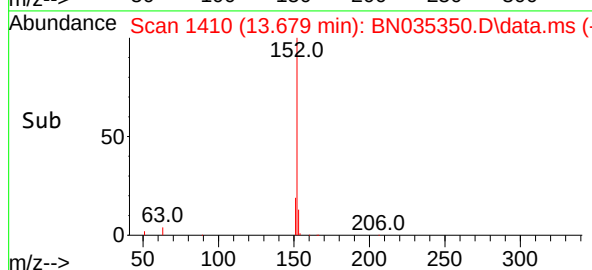
Delta R.T. 0.000 min

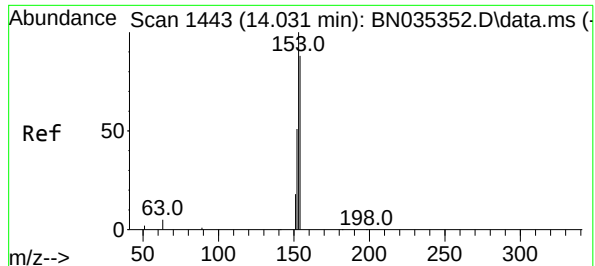
Lab File: BN035350.D

Acq: 27 Nov 2024 15:34



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 20.4  | 16.2  | 24.2  |
| 153     | 13.1  | 10.4  | 15.6  |





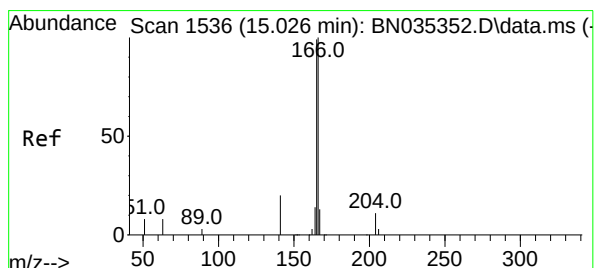
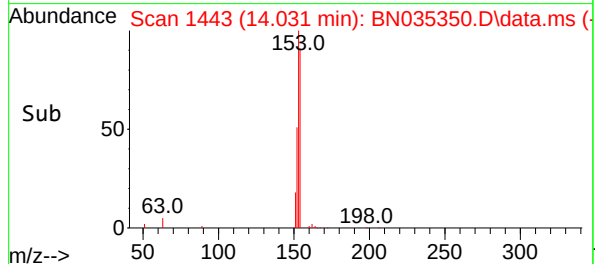
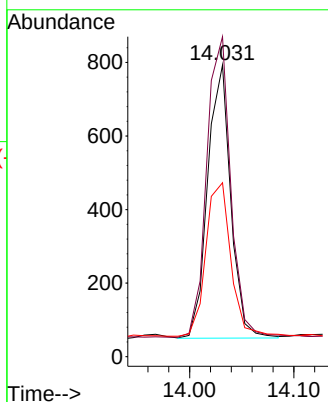
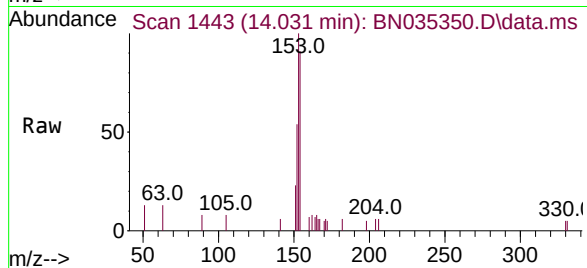
#17  
Acenaphthene  
Concen: 0.100 ng  
RT: 14.031 min Scan# 1443  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

Tgt Ion:154 Resp: 114.0  
Ion Ratio Lower Upper  
154 100  
153 115.0 92.6 139.0  
152 60.9 49.0 73.6

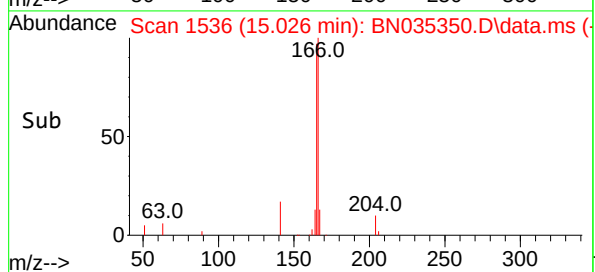
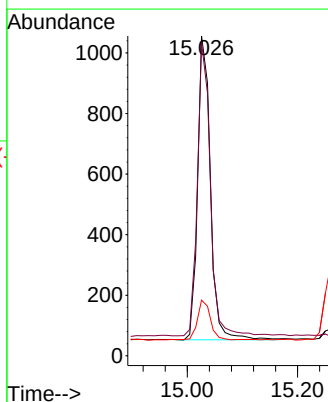
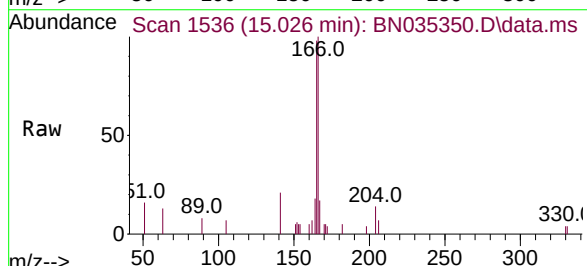
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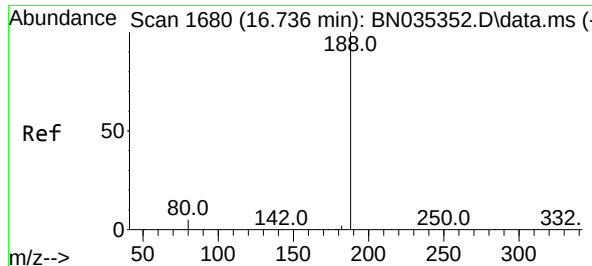
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#18  
Fluorene  
Concen: 0.096 ng  
RT: 15.026 min Scan# 1536  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

Tgt Ion:166 Resp: 1620  
Ion Ratio Lower Upper  
166 100  
165 97.7 79.7 119.5  
167 13.1 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.736 min Scan# 1680

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

Instrument :

BNA\_N

ClientSampleId :

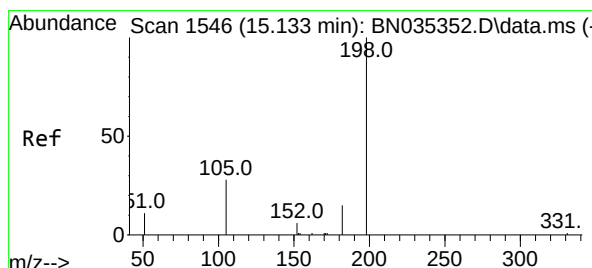
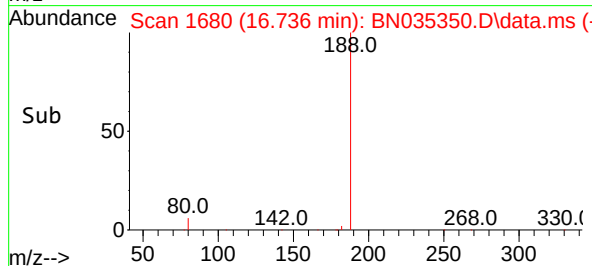
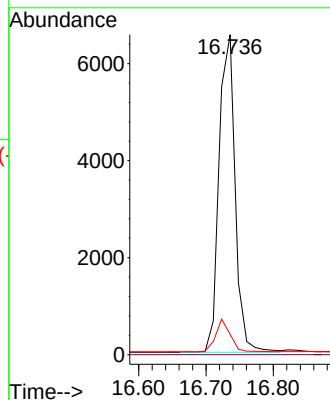
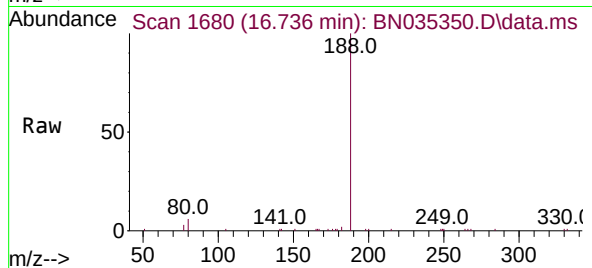
SSTDICC0.1

|             |       |       |
|-------------|-------|-------|
| Tgt Ion:188 | Resp: | 1085  |
| Ion Ratio   | Lower | Upper |
| 188         | 100   |       |
| 94          | 0.0   | 0.0   |
| 80          | 6.4   | 6.8   |

Manual Integrations

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Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 0.046 ng

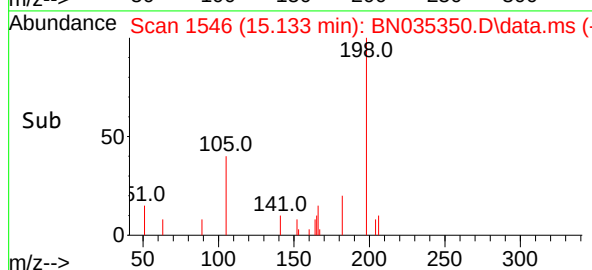
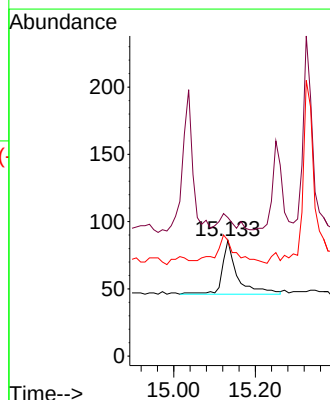
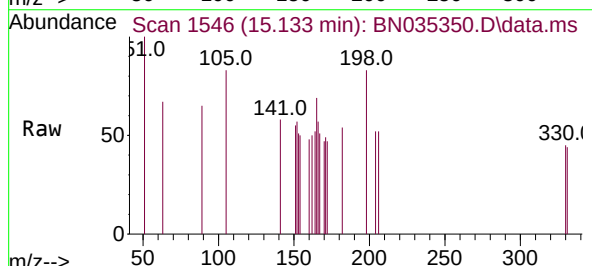
RT: 15.133 min Scan# 1546

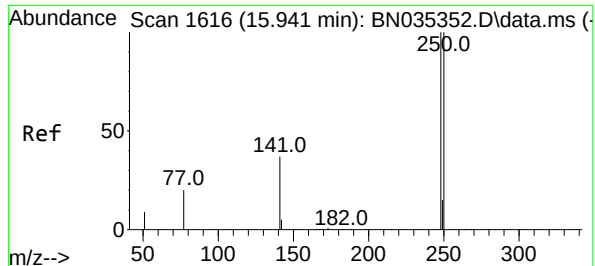
Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

|             |       |       |
|-------------|-------|-------|
| Tgt Ion:198 | Resp: | 103   |
| Ion Ratio   | Lower | Upper |
| 198         | 100   |       |
| 51          | 119.8 | 46.5  |
| 105         | 100.0 | 45.3  |





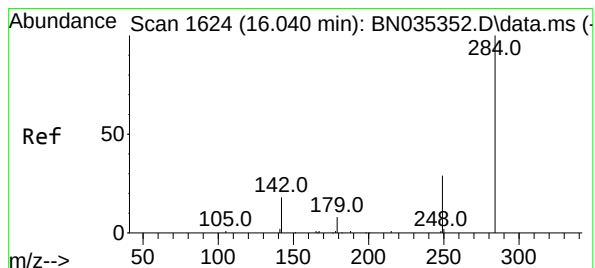
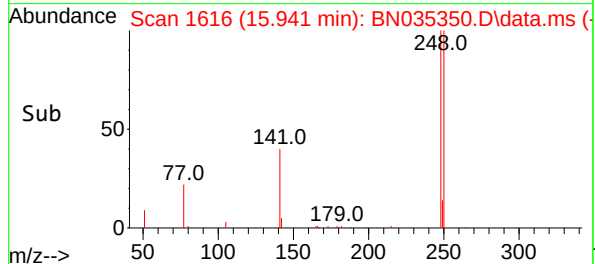
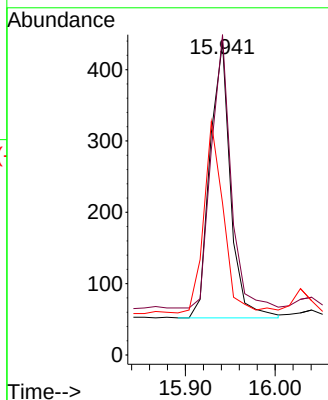
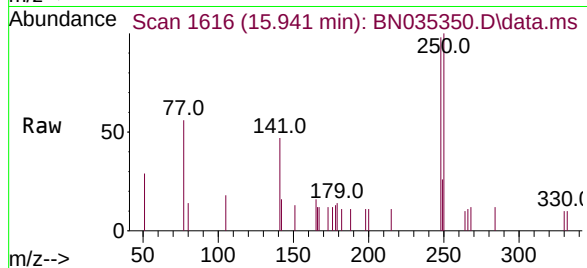
#21  
4-Bromophenyl-phenylether  
Concen: 0.088 ng  
RT: 15.941 min Scan# 1616  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

Tgt Ion:248 Resp: 612  
Ion Ratio Lower Upper  
248 100  
250 102.5 80.6 120.8  
141 48.6 31.5 47.3

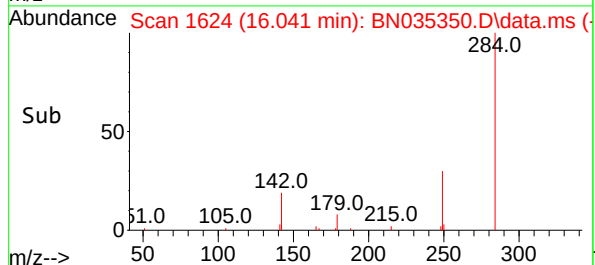
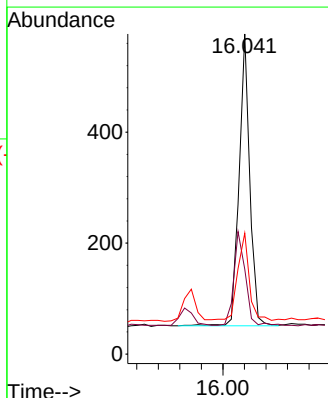
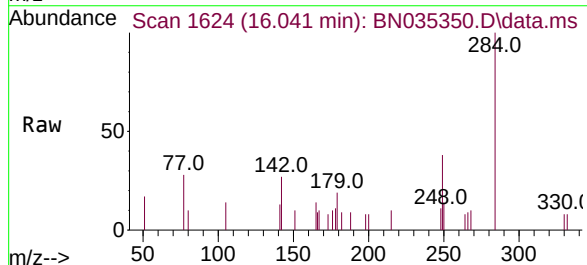
Manual Integrations  
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Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024

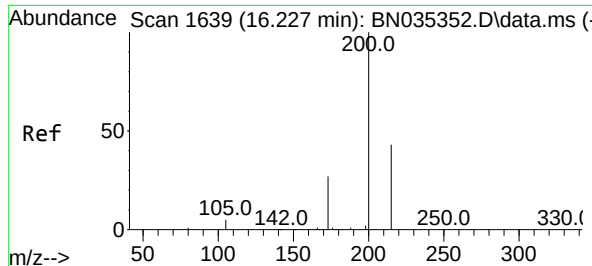


#22  
Hexachlorobenzene  
Concen: 0.100 ng  
RT: 16.041 min Scan# 1624  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

Tgt Ion:284 Resp: 720  
Ion Ratio Lower Upper  
284 100  
142 35.4 26.7 40.1  
249 32.2 24.6 36.8







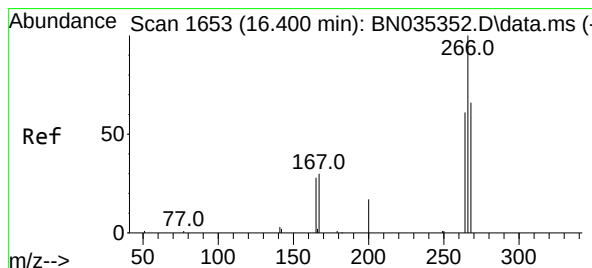
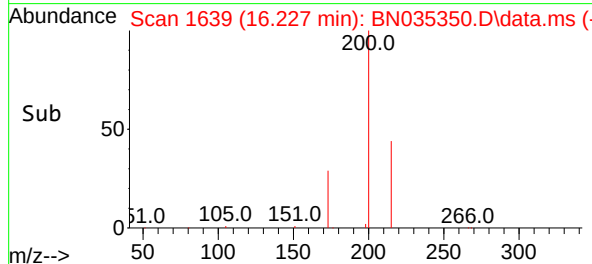
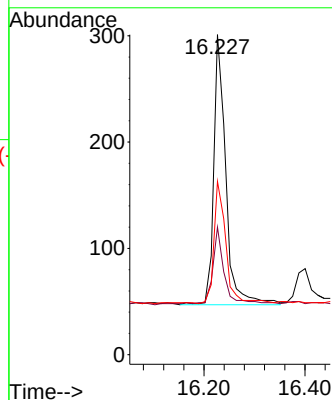
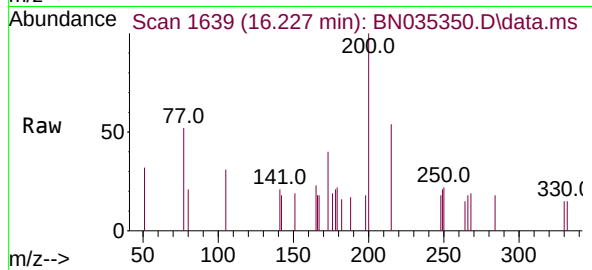
#23  
Atrazine  
Concen: 0.068 ng  
RT: 16.227 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

Tgt Ion:200 Resp: 42.1  
Ion Ratio Lower Upper  
200 100  
173 39.9 24.1 36.1  
215 54.2 36.9 55.3

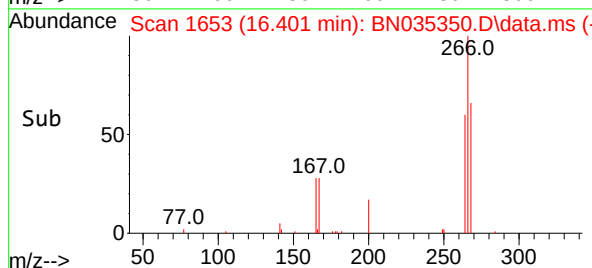
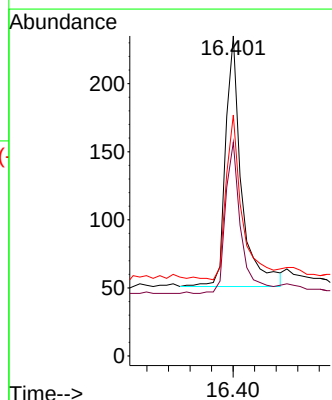
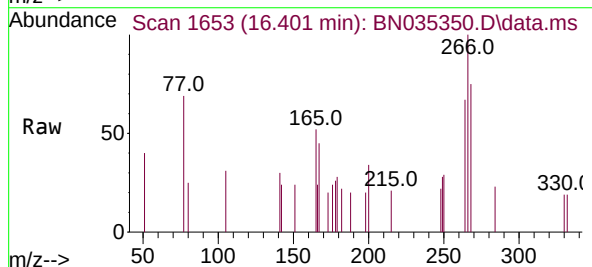
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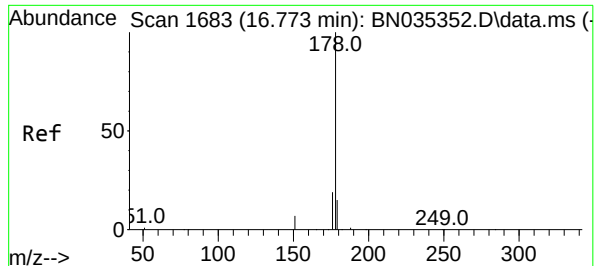
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#24  
Pentachlorophenol  
Concen: 0.114 ng  
RT: 16.401 min Scan# 1653  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

Tgt Ion:266 Resp: 381  
Ion Ratio Lower Upper  
266 100  
264 58.3 42.3 63.5  
268 63.3 43.3 64.9





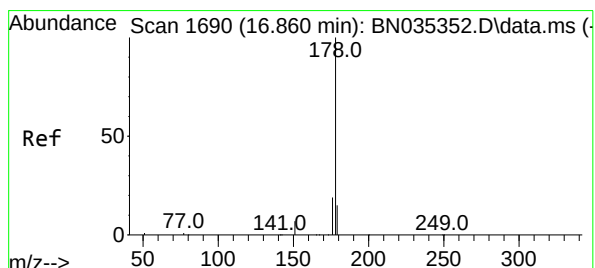
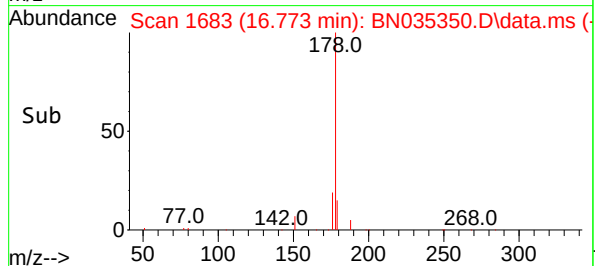
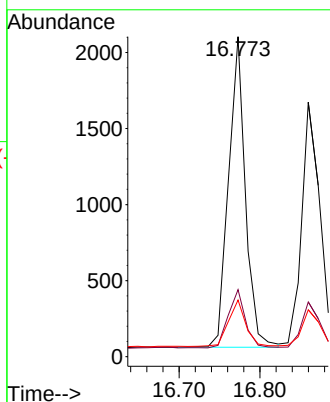
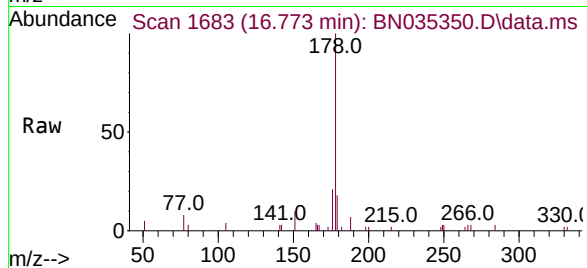
#25  
Phenanthrene  
Concen: 0.104 ng  
RT: 16.773 min Scan# 1683  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

Tgt Ion:178 Resp: 296  
Ion Ratio Lower Upper  
178 100  
176 18.8 15.4 23.2  
179 15.6 12.3 18.5

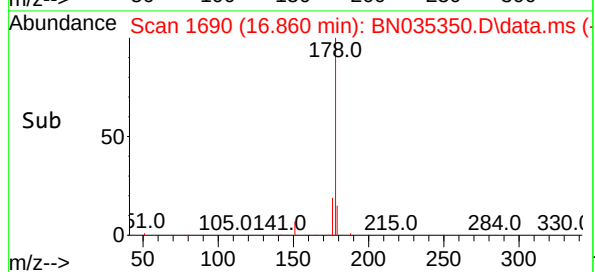
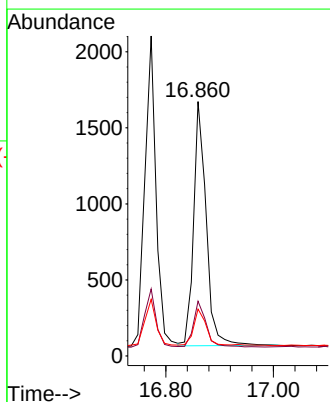
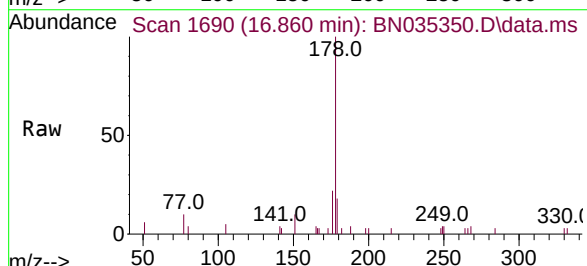
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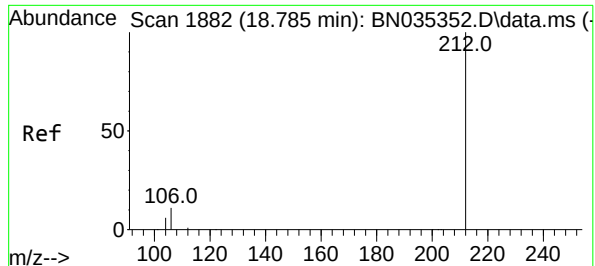
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#26  
Anthracene  
Concen: 0.100 ng  
RT: 16.860 min Scan# 1690  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

Tgt Ion:178 Resp: 2617  
Ion Ratio Lower Upper  
178 100  
176 18.8 15.0 22.6  
179 14.3 12.6 18.8





#27

Fluoranthene-d10

Concen: 0.098 ng

RT: 18.785 min Scan# 1882

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

Instrument :

BNA\_N

ClientSampleId :

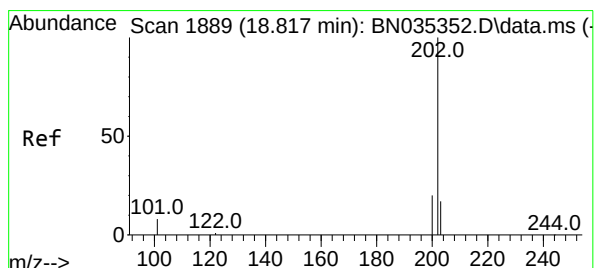
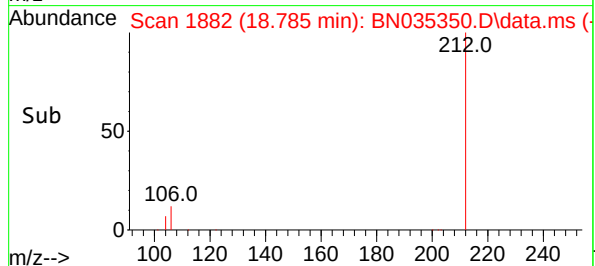
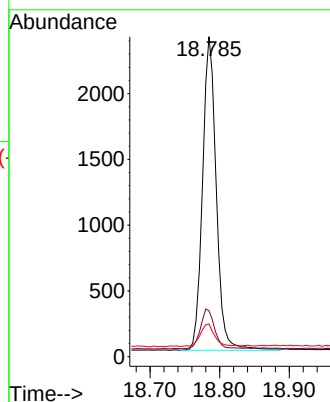
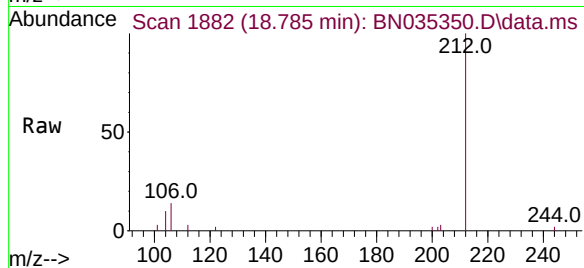
SSTDICC0.1

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 212   | Resp: | 326   |
| Ion      | Ratio | Lower | Upper |
| 212      | 100   |       |       |
| 106      | 12.8  | 9.2   | 13.8  |
| 104      | 7.6   | 5.3   | 7.9   |

Manual Integrations

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Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#28

Fluoranthene

Concen: 0.106 ng

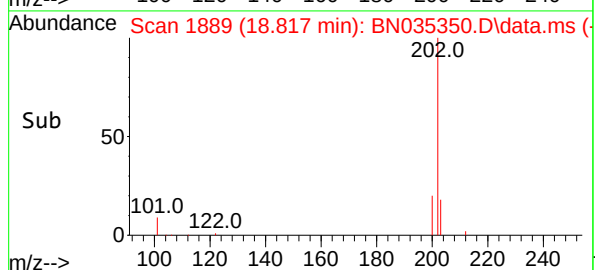
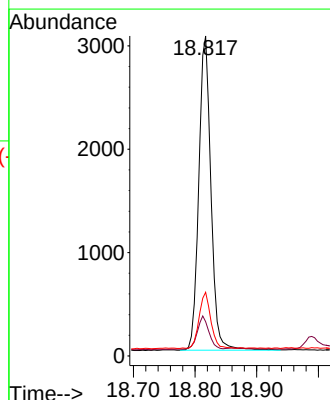
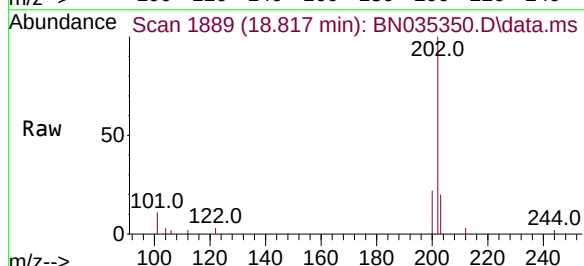
RT: 18.817 min Scan# 1889

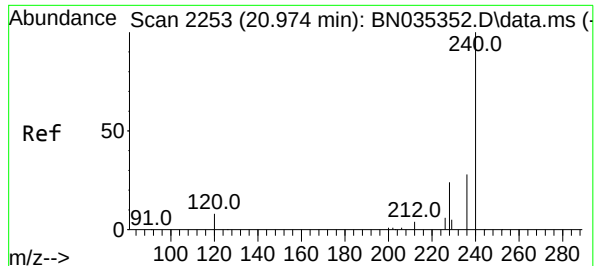
Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 202   | Resp: | 4173  |
| Ion      | Ratio | Lower | Upper |
| 202      | 100   |       |       |
| 101      | 10.2  | 7.4   | 11.0  |
| 203      | 17.3  | 13.7  | 20.5  |





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.974 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

Instrument :

BNA\_N

ClientSampleId :

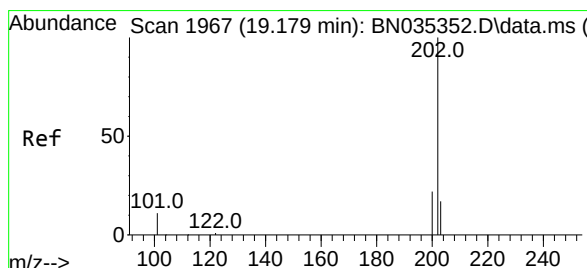
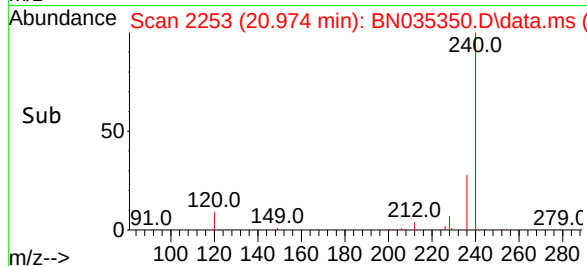
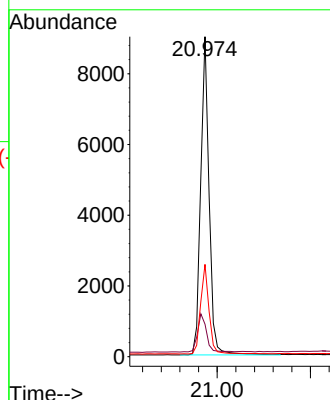
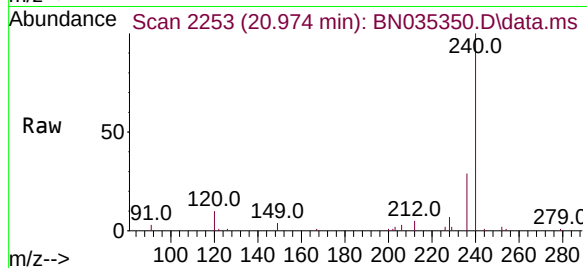
SSTDICC0.1

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:240 | Resp: | 11269     |
| Ion Ratio   | Lower | Upper     |
| 240         | 100   |           |
| 120         | 10.1  | 7.9 11.9  |
| 236         | 28.8  | 22.9 34.3 |

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Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#30

Pyrene

Concen: 0.119 ng

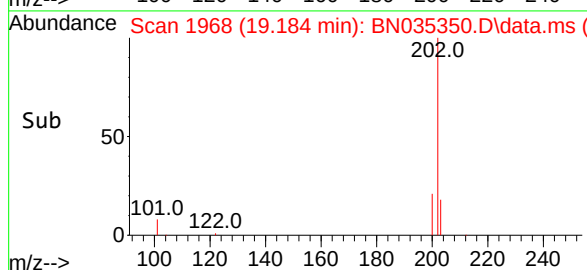
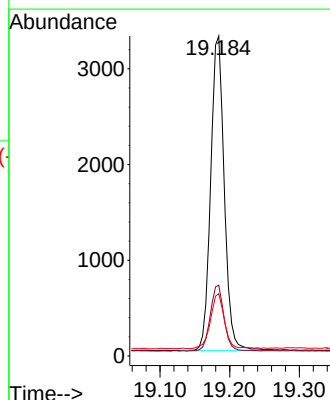
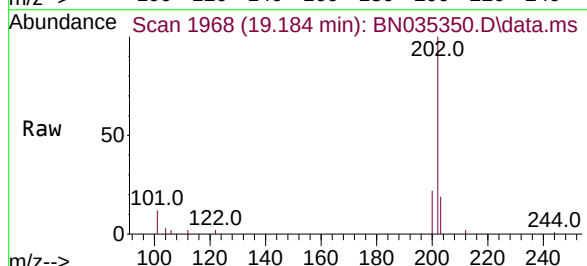
RT: 19.184 min Scan# 1968

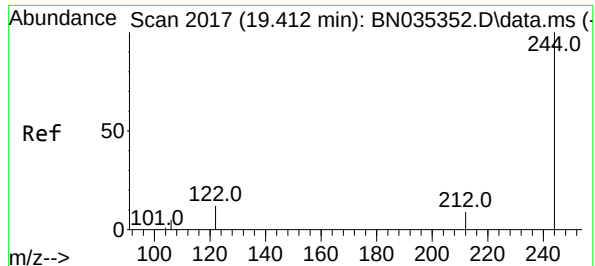
Delta R.T. 0.005 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

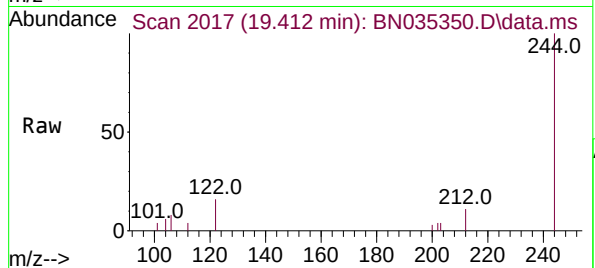
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:202 | Resp: | 4461      |
| Ion Ratio   | Lower | Upper     |
| 202         | 100   |           |
| 200         | 21.1  | 17.0 25.4 |
| 203         | 18.0  | 14.3 21.5 |





#31  
Terphenyl-d14  
Concen: 0.099 ng  
RT: 19.412 min Scan# 2017  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

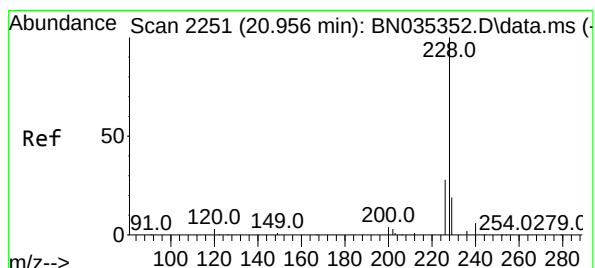
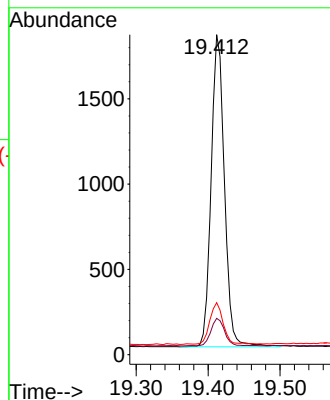
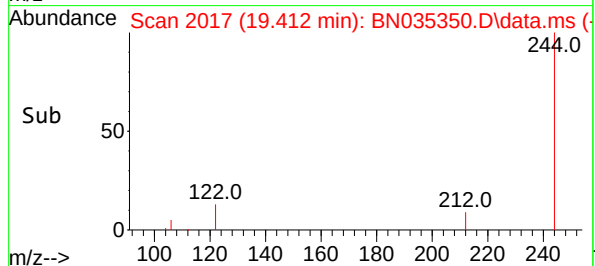
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1



Tgt Ion:244 Resp: 2344  
Ion Ratio Lower Upper  
244 100  
212 11.4 8.1 12.1  
122 16.3 10.3 15.5

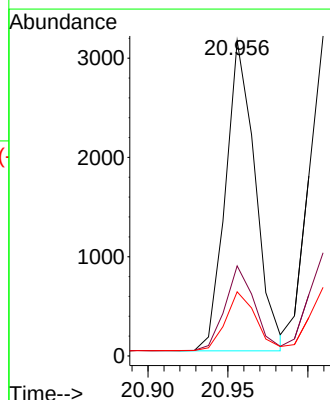
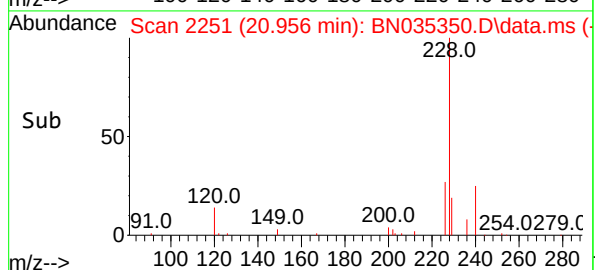
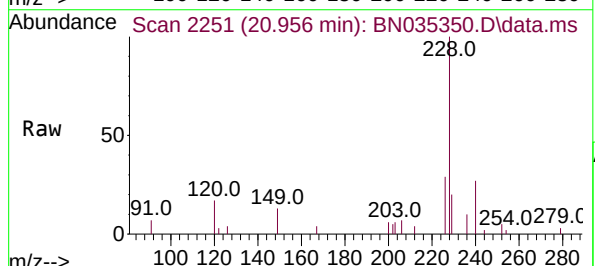
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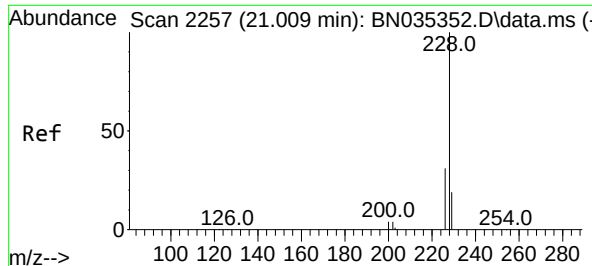
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#32  
Benzo(a)anthracene  
Concen: 0.103 ng  
RT: 20.956 min Scan# 2251  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

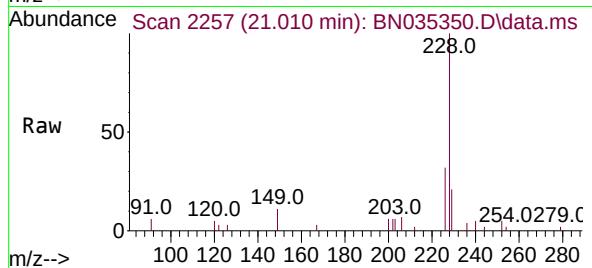
Tgt Ion:228 Resp: 4031  
Ion Ratio Lower Upper  
228 100  
226 28.5 22.5 33.7  
229 20.4 15.8 23.8





#33  
Chrysene  
Concen: 0.106 ng  
RT: 21.010 min Scan# 2101  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

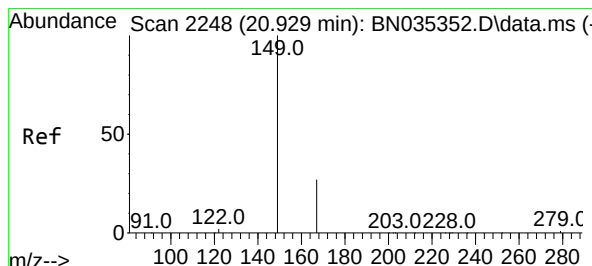
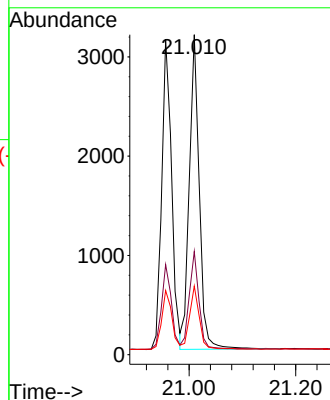
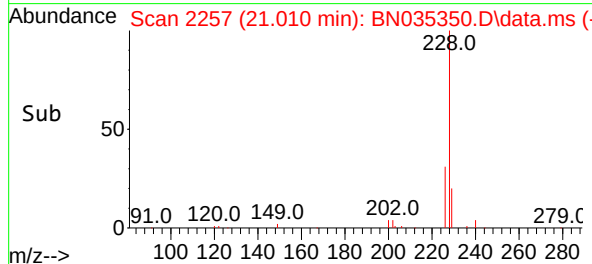
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1



Tgt Ion:228 Resp: 412  
Ion Ratio Lower Upper  
228 100  
226 32.3 24.6 37.0  
229 21.5 15.9 23.9

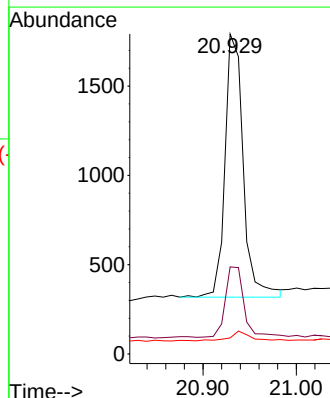
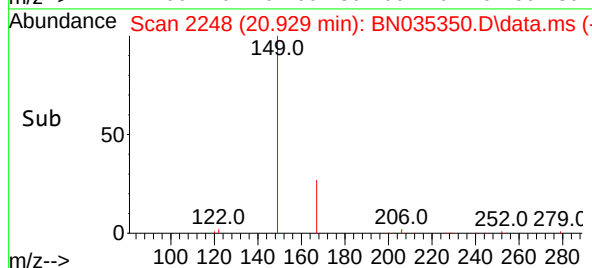
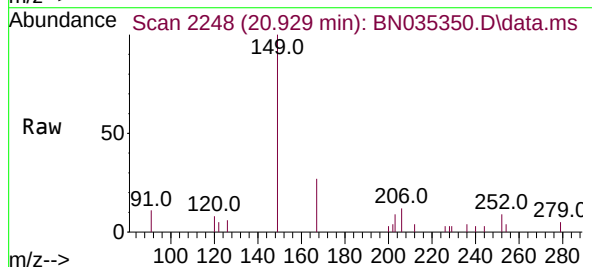
Manual Integrations  
APPROVED

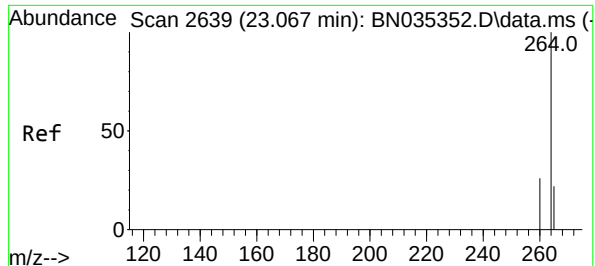
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#34  
Bis(2-ethylhexyl)phthalate  
Concen: 0.097 ng  
RT: 20.929 min Scan# 2248  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

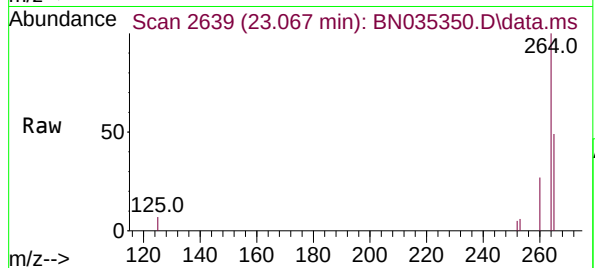
Tgt Ion:149 Resp: 1999  
Ion Ratio Lower Upper  
149 100  
167 27.5 22.2 33.4  
279 3.6 2.7 4.1





#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.067 min Scan# 2639  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

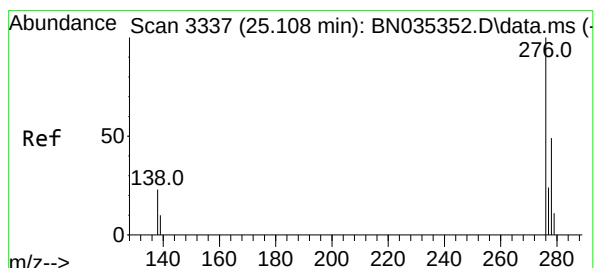
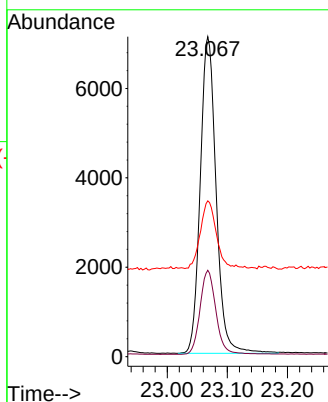
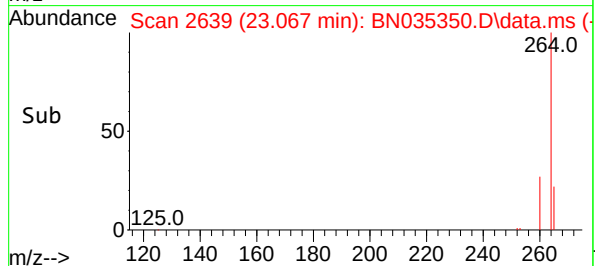
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1



Tgt Ion:264 Resp: 13004  
Ion Ratio Lower Upper  
264 100  
260 27.0 21.4 32.2  
265 48.7 40.2 60.4

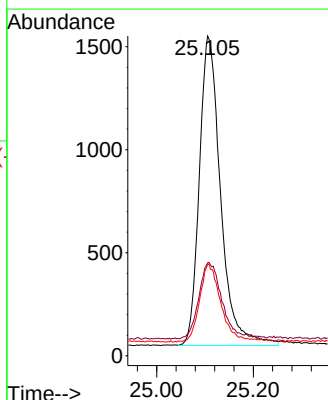
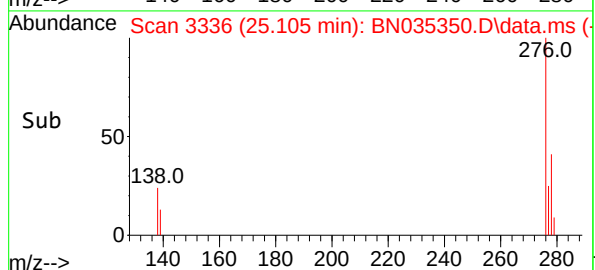
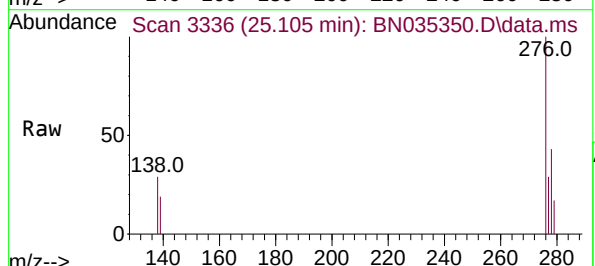
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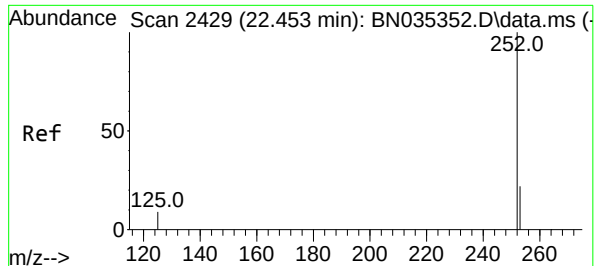
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.088 ng  
RT: 25.105 min Scan# 3336  
Delta R.T. -0.003 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

Tgt Ion:276 Resp: 4586  
Ion Ratio Lower Upper  
276 100  
138 26.2 19.4 29.0  
277 25.6 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.097 ng

RT: 22.456 min Scan# 2430

Delta R.T. 0.003 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

Instrument :

BNA\_N

ClientSampleId :

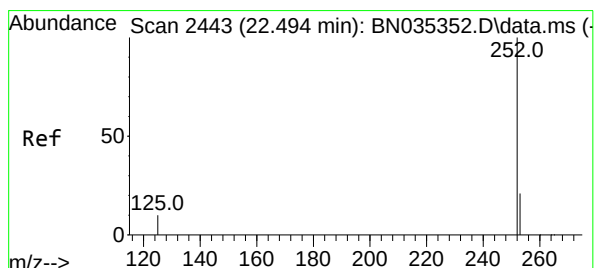
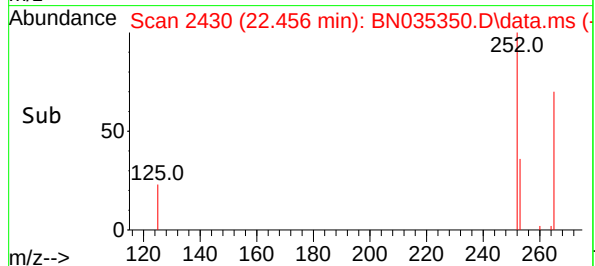
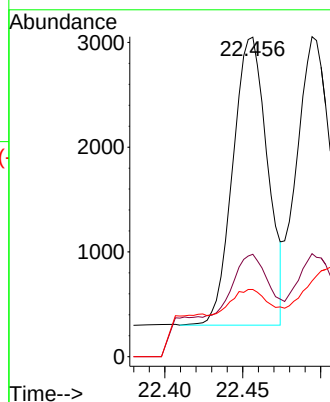
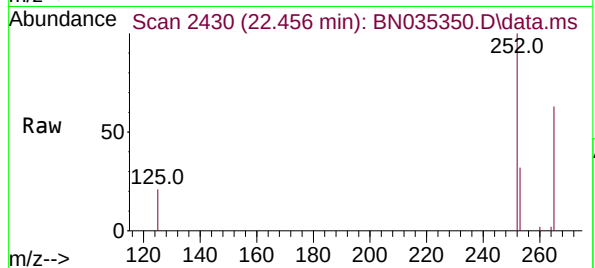
SSTDICC0.1

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:252 | Resp: | 424       |
| Ion Ratio   | Lower | Upper     |
| 252         | 100   |           |
| 253         | 32.1  | 19.6 29.4 |
| 125         | 21.0  | 9.6 14.4  |

Manual Integrations

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Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#38

Benzo(k)fluoranthene

Concen: 0.107 ng m

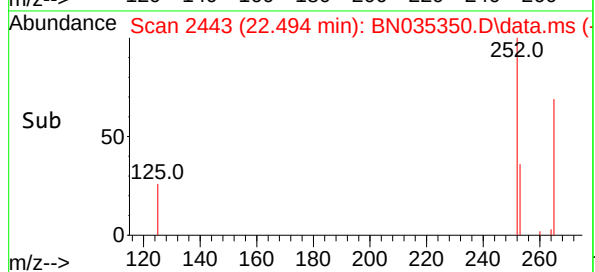
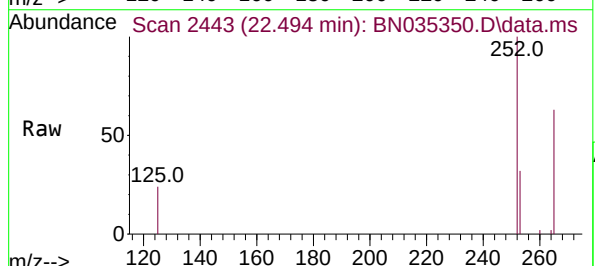
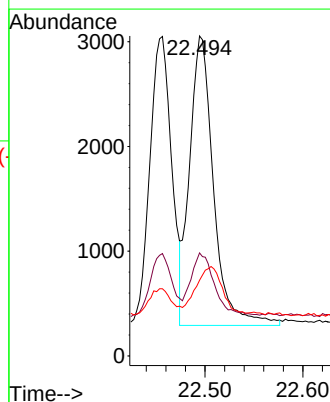
RT: 22.494 min Scan# 2443

Delta R.T. 0.000 min

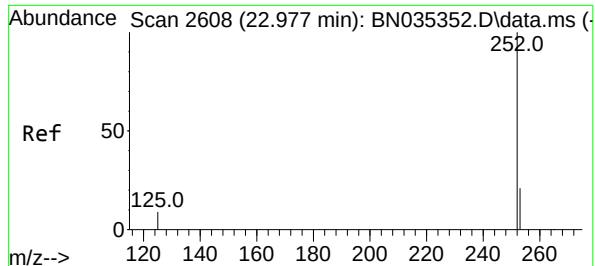
Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:252 | Resp: | 4695      |
| Ion Ratio   | Lower | Upper     |
| 252         | 100   |           |
| 253         | 32.2  | 19.5 29.3 |
| 125         | 23.7  | 10.2 15.4 |







#39

Benzo(a)pyrene

Concen: 0.102 ng

RT: 22.977 min Scan# 2608

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.1

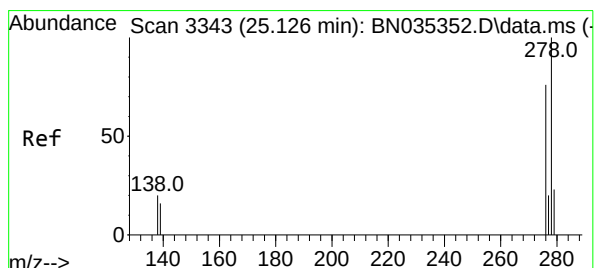
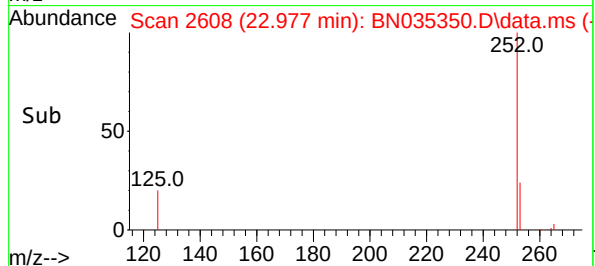
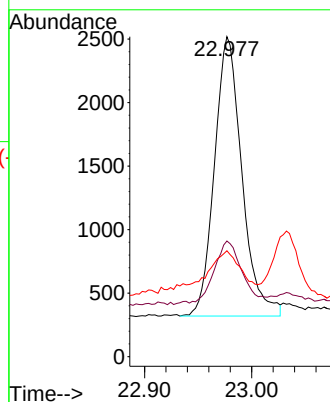
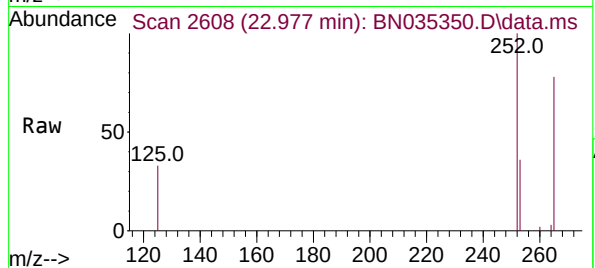
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 252   | Resp: | 391  |
| Ion Ratio | Lower | Upper |      |
| 252       | 100   |       |      |
| 253       | 36.1  | 20.2  | 30.4 |
| 125       | 33.1  | 10.9  | 16.3 |

Manual Integrations

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Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.087 ng

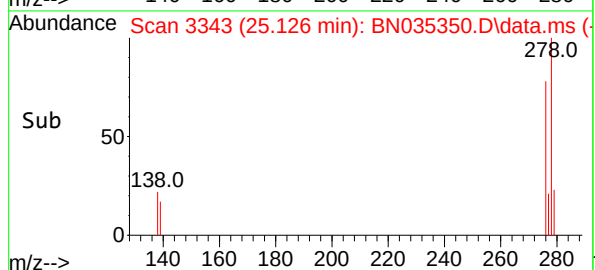
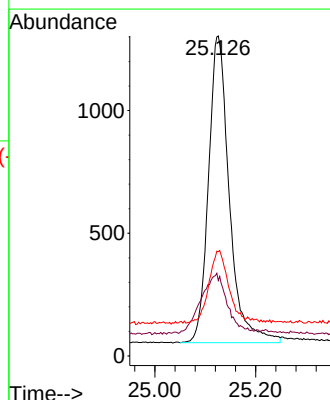
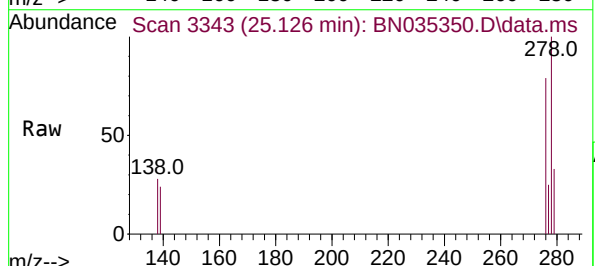
RT: 25.126 min Scan# 3343

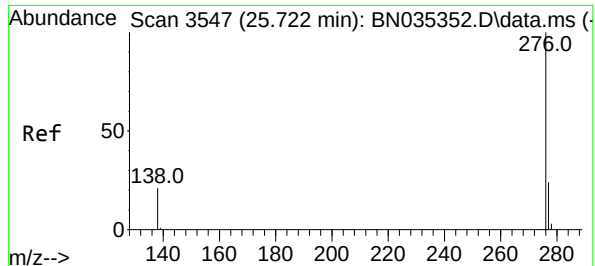
Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 278   | Resp: | 3588 |
| Ion Ratio | Lower | Upper |      |
| 278       | 100   |       |      |
| 139       | 23.6  | 14.2  | 21.4 |
| 279       | 32.6  | 20.5  | 30.7 |





#41

Benzo(g,h,i)perylene

Concen: 0.088 ng

RT: 25.725 min Scan# 3

Delta R.T. 0.003 min

Lab File: BN035350.D

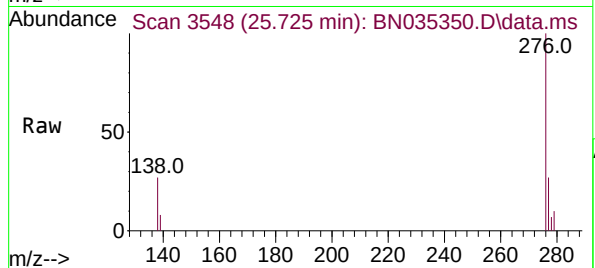
Acq: 27 Nov 2024 15:34

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.1



Tgt Ion:276 Resp: 386

Ion Ratio Lower Upper

276 100

277 26.9 19.9 29.9

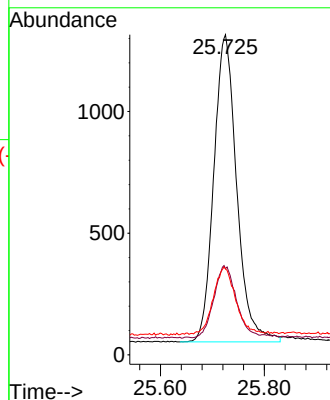
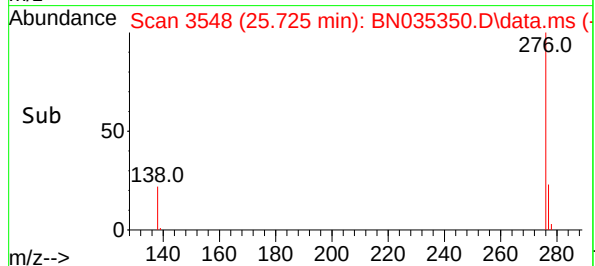
138 26.8 17.8 26.8

Manual Integrations

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Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112724\  
 Data File : BN035351.D  
 Acq On : 27 Nov 2024 16:10  
 Operator : RC/JU  
 Sample : SSTDICC0.2  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC0.2

Manual Integrations  
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Reviewed By :Yogesh Patel 11/29/2024  
 Supervised By :mohammad ahmed 12/03/2024

Quant Time: Nov 27 22:52:33 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Nov 27 22:48:24 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.308  | 152  | 2084     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.063 | 136  | 5334     | 0.400 | ng    | # 0.01   |
| 13) Acenaphthene-d10          | 13.967 | 164  | 3808     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 16.735 | 188  | 9904     | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 20.974 | 240  | 9963     | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.070 | 264  | 11158    | 0.400 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 4.968  | 112  | 1159     | 0.219 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.513  | 99   | 1236     | 0.186 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.450  | 82   | 618m     | 0.133 | ng    | 0.01     |
| 11) 2-Methylnaphthalene-d10   | 11.661 | 152  | 1608     | 0.169 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.475 | 330  | 492      | 0.179 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.574 | 172  | 2838     | 0.184 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 18.784 | 212  | 5379     | 0.177 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.416 | 244  | 3871     | 0.185 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| Target Compounds              |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.003  | 88   | 435      | 0.230 | ng    | # 95     |
| 3) n-Nitrosodimethylamine     | 3.299  | 42   | 315      | 0.179 | ng    | # 87     |
| 6) bis(2-Chloroethyl)ether    | 6.759  | 93   | 1064     | 0.214 | ng    | 99       |
| 9) Naphthalene                | 10.105 | 128  | 2744     | 0.197 | ng    | 96       |
| 10) Hexachlorobutadiene       | 10.404 | 225  | 646      | 0.158 | ng    | # 99     |
| 12) 2-Methylnaphthalene       | 11.737 | 142  | 1910     | 0.186 | ng    | 98       |
| 16) Acenaphthylene            | 13.678 | 152  | 3047     | 0.187 | ng    | 99       |
| 17) Acenaphthene              | 14.031 | 154  | 2064     | 0.194 | ng    | 99       |
| 18) Fluorene                  | 15.026 | 166  | 2949     | 0.188 | ng    | 99       |
| 20) 4,6-Dinitro-2-methylph... | 15.132 | 198  | 153      | 0.074 | ng    | # 53     |
| 21) 4-Bromophenyl-phenylether | 15.941 | 248  | 1081     | 0.171 | ng    | 96       |
| 22) Hexachlorobenzene         | 16.040 | 284  | 1318     | 0.201 | ng    | 98       |
| 23) Atrazine                  | 16.227 | 200  | 770      | 0.136 | ng    | 93       |
| 24) Pentachlorophenol         | 16.400 | 266  | 445      | 0.145 | ng    | # 84     |
| 25) Phenanthrene              | 16.773 | 178  | 5182     | 0.199 | ng    | 99       |
| 26) Anthracene                | 16.860 | 178  | 4571     | 0.191 | ng    | 100      |
| 28) Fluoranthene              | 18.817 | 202  | 6914     | 0.193 | ng    | 100      |
| 30) Pyrene                    | 19.184 | 202  | 7198     | 0.217 | ng    | 100      |
| 32) Benzo(a)anthracene        | 20.956 | 228  | 6691     | 0.193 | ng    | 99       |
| 33) Chrysene                  | 21.009 | 228  | 7234     | 0.211 | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 20.938 | 149  | 2779     | 0.153 | ng    | # 99     |
| 36) Indeno(1,2,3-cd)pyrene    | 25.108 | 276  | 8305     | 0.187 | ng    | 100      |
| 37) Benzo(b)fluoranthene      | 22.456 | 252  | 7522     | 0.200 | ng    | # 94     |
| 38) Benzo(k)fluoranthene      | 22.497 | 252  | 7675m    | 0.204 | ng    |          |
| 39) Benzo(a)pyrene            | 22.980 | 252  | 6450     | 0.195 | ng    | # 90     |
| 40) Dibenzo(a,h)anthracene    | 25.128 | 278  | 6620     | 0.188 | ng    | 96       |
| 41) Benzo(g,h,i)perylene      | 25.725 | 276  | 6908     | 0.184 | ng    | 99       |
| -----                         |        |      |          |       |       |          |

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

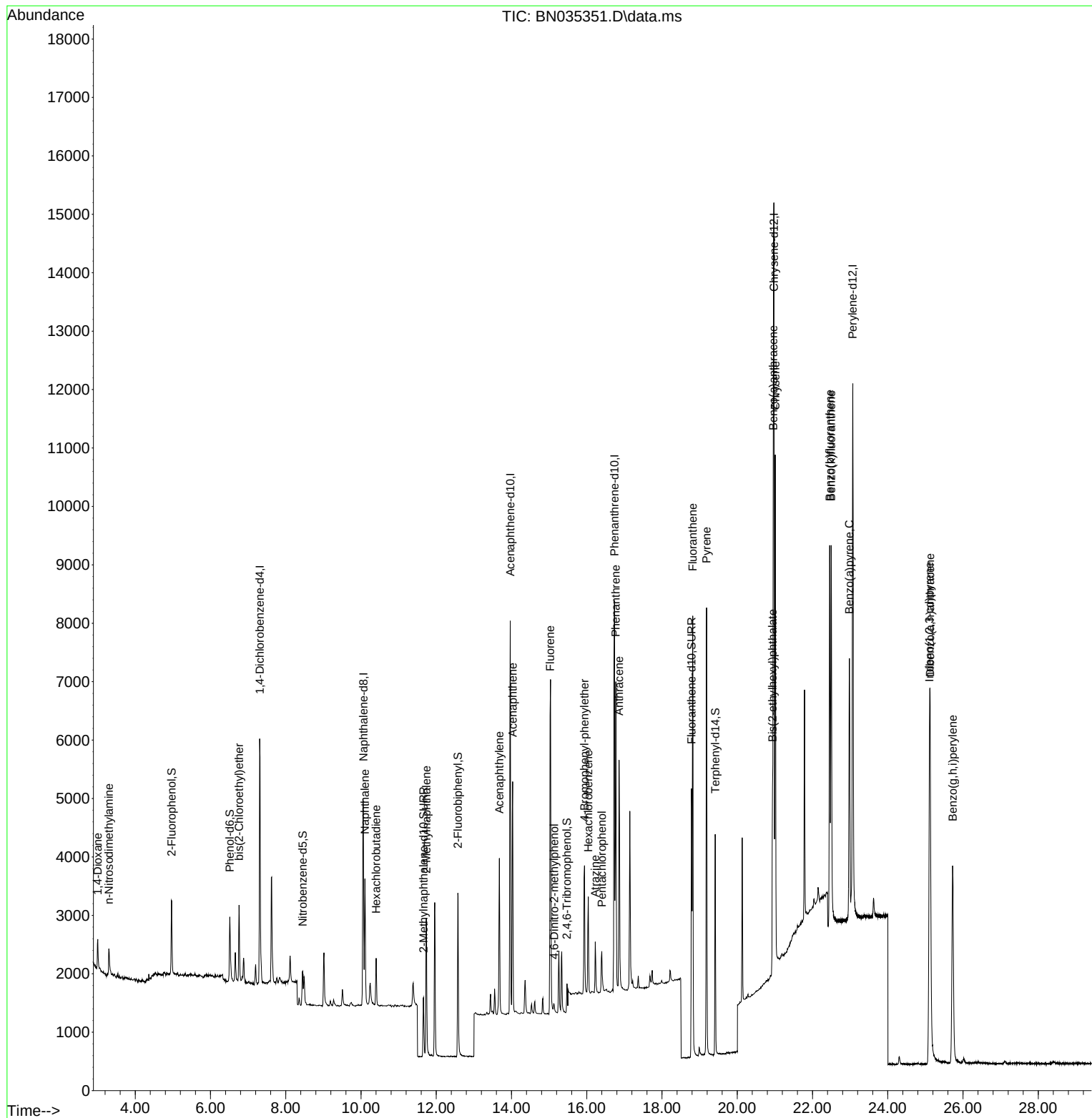
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112724\  
Data File : BN035351.D  
Acq On : 27 Nov 2024 16:10  
Operator : RC/JU  
Sample : SSTDICC0.2  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

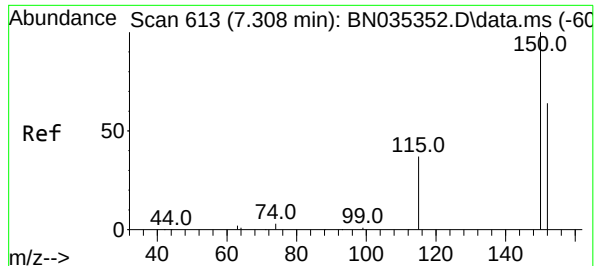
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

Quant Time: Nov 27 22:52:33 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Nov 27 22:48:24 2024  
Response via : Initial Calibration

Manual Integrations  
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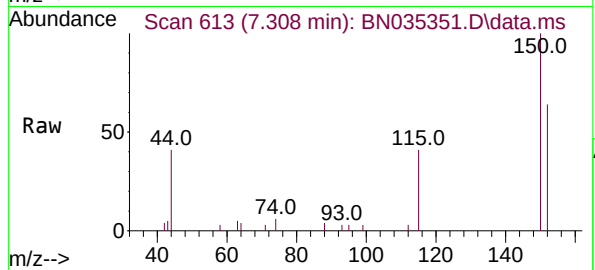
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024





#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.308 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

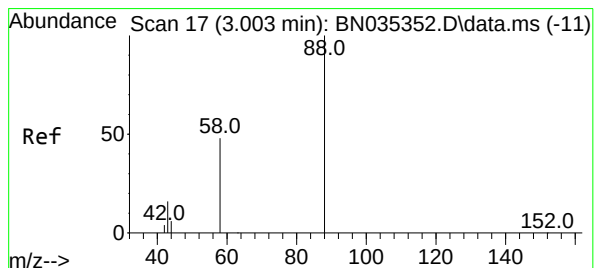
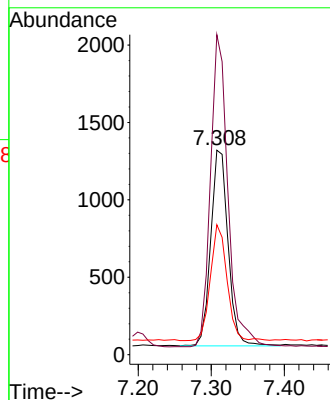
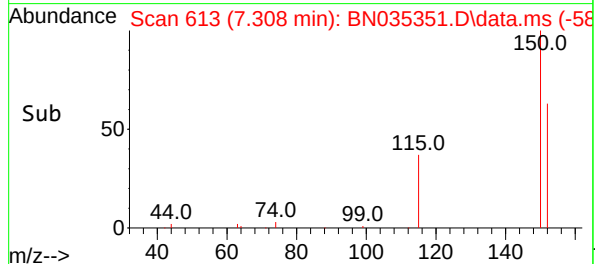
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2



Tgt Ion: 152 Resp: 2084  
Ion Ratio Lower Upper  
152 100  
150 156.5 124.0 186.0  
115 63.5 49.6 74.4

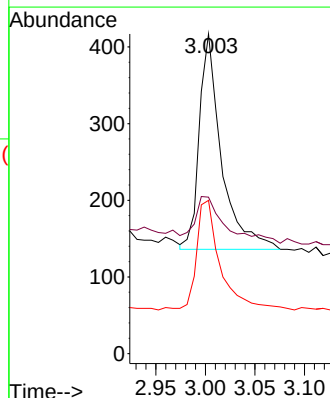
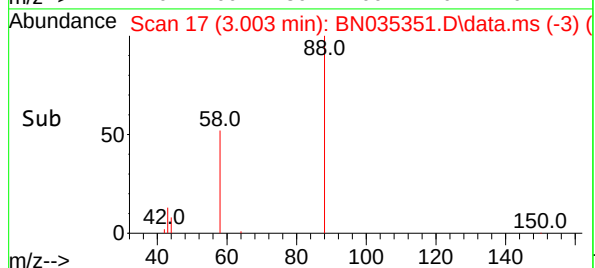
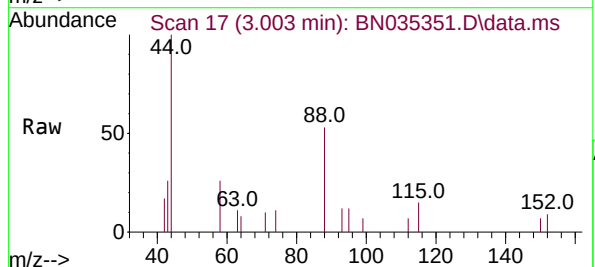
Manual Integrations  
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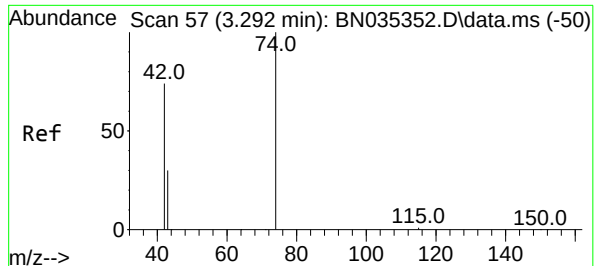
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#2  
1,4-Dioxane  
Concen: 0.230 ng  
RT: 3.003 min Scan# 17  
Delta R.T. -0.000 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

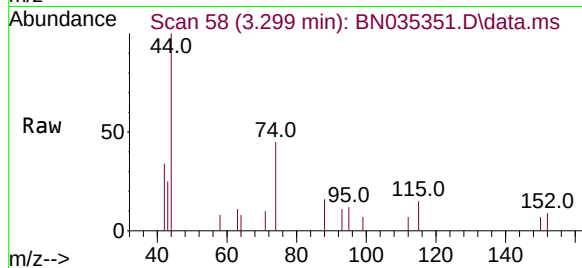
Tgt Ion: 88 Resp: 435  
Ion Ratio Lower Upper  
88 100  
43 29.9 17.2 25.8#  
58 55.2 44.5 66.7





#3  
n-Nitrosodimethylamine  
Concen: 0.179 ng  
RT: 3.299 min Scan# 57  
Delta R.T. 0.007 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

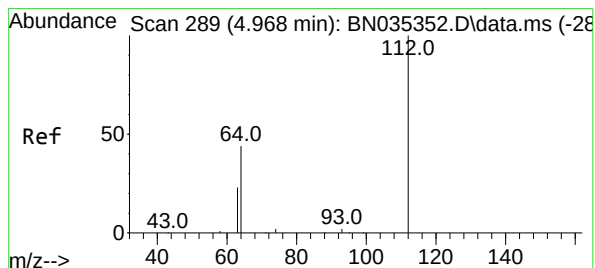
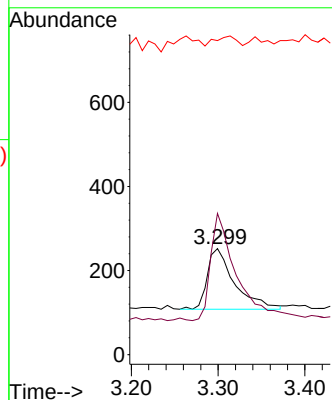
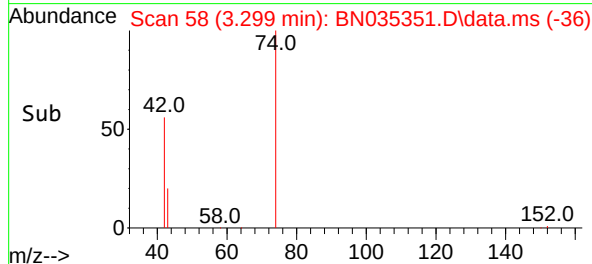
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2



Tgt Ion: 42 Resp: 315  
Ion Ratio Lower Upper  
42 100  
74 172.4 124.9 187.3  
44 16.2 2.2 3.4

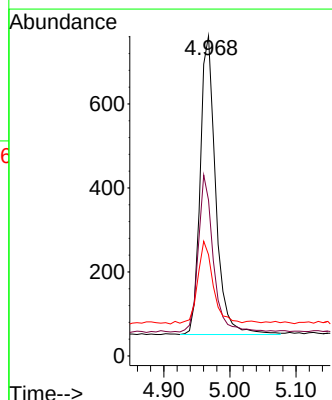
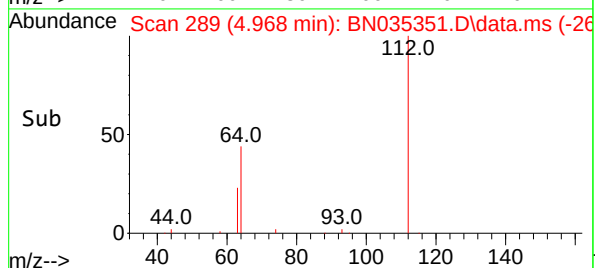
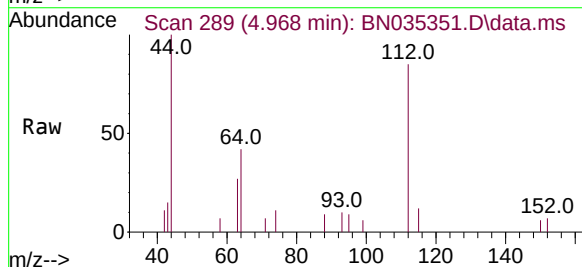
Manual Integrations  
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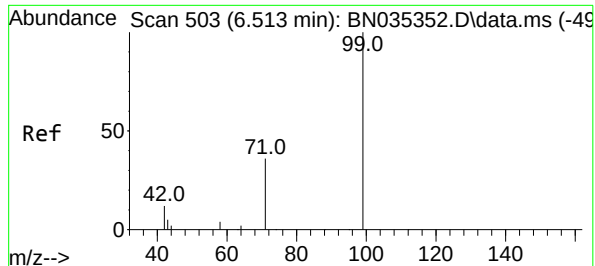
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#4  
2-Fluorophenol  
Concen: 0.219 ng  
RT: 4.968 min Scan# 289  
Delta R.T. -0.000 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

Tgt Ion:112 Resp: 1159  
Ion Ratio Lower Upper  
112 100  
64 51.2 39.8 59.8  
63 27.9 21.0 31.6





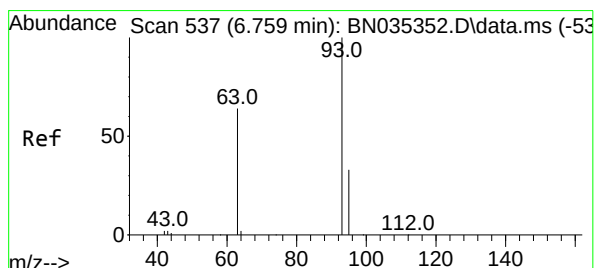
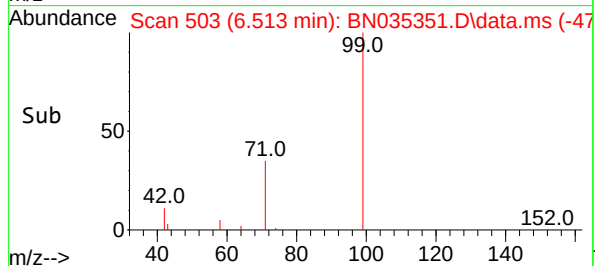
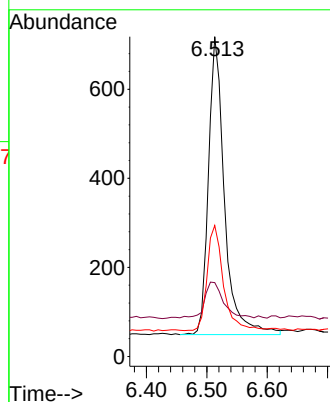
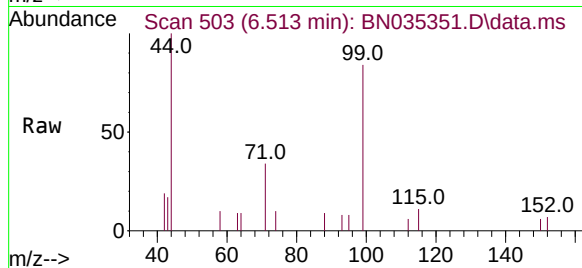
#5  
Phenol-d6  
Concen: 0.186 ng  
RT: 6.513 min Scan# 503  
Delta R.T. -0.000 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

Tgt Ion: 99 Resp: 1230  
Ion Ratio Lower Upper  
99 100  
42 15.0 11.4 17.2  
71 35.8 29.3 43.9

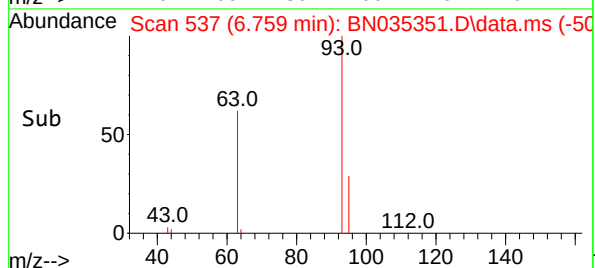
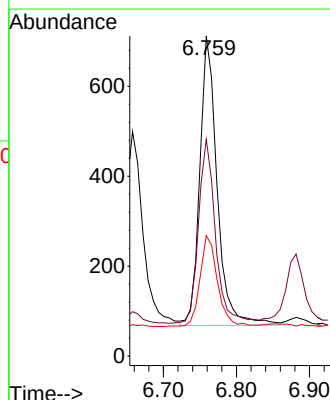
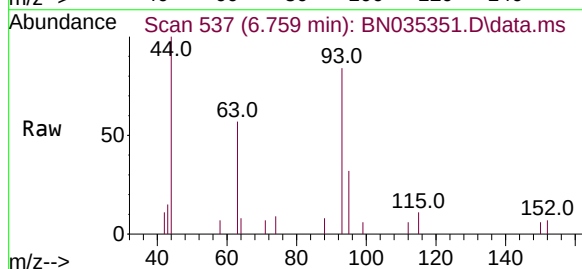
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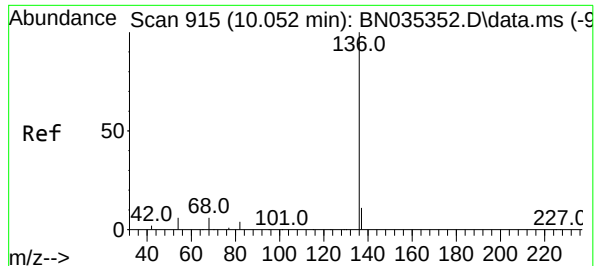
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#6  
bis(2-Chloroethyl)ether  
Concen: 0.214 ng  
RT: 6.759 min Scan# 537  
Delta R.T. -0.000 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

Tgt Ion: 93 Resp: 1064  
Ion Ratio Lower Upper  
93 100  
63 62.2 50.4 75.6  
95 31.6 25.7 38.5





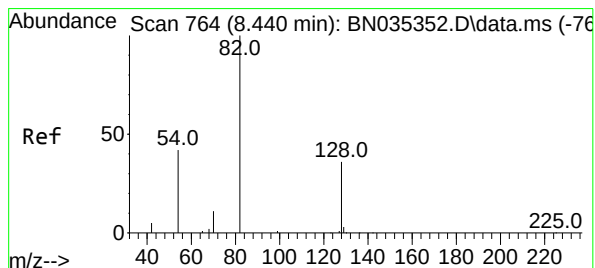
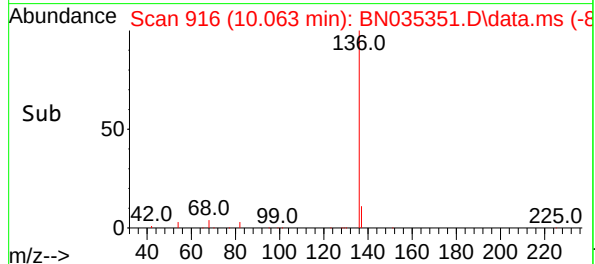
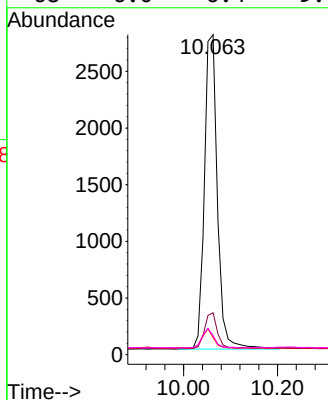
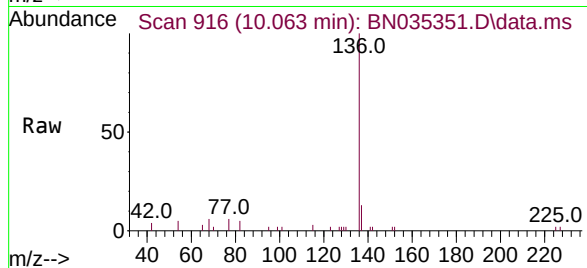
#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.063 min Scan# 915  
Delta R.T. 0.011 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

Tgt Ion:136 Resp: 5334  
Ion Ratio Lower Upper  
136 100  
137 13.1 10.2 15.2  
54 5.3 6.1 9.1  
68 6.0 6.4 9.6#

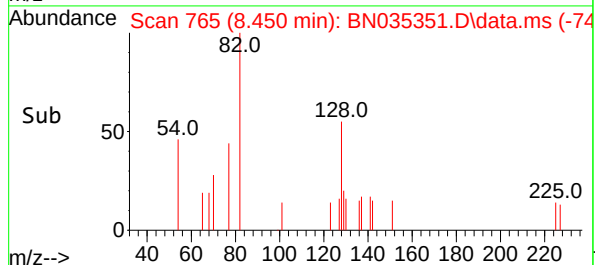
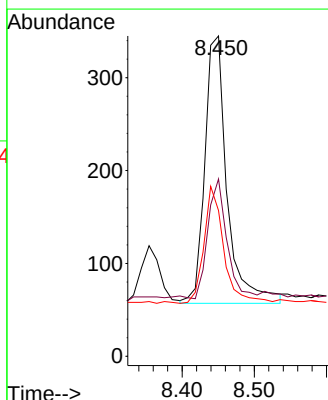
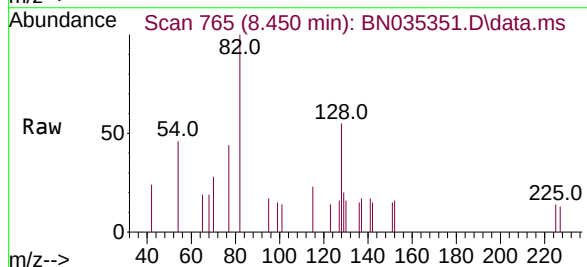
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Supervised By :mohammad ahmed 12/03/2024

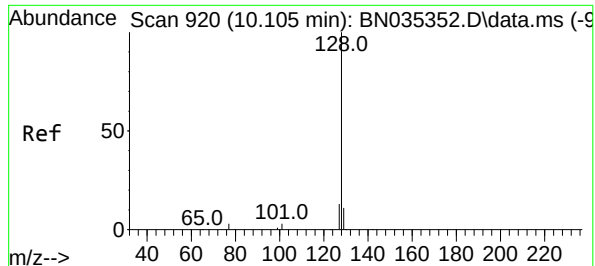


#8  
Nitrobenzene-d5  
Concen: 0.133 ng m  
RT: 8.450 min Scan# 765  
Delta R.T. 0.011 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

Tgt Ion: 82 Resp: 618  
Ion Ratio Lower Upper  
82 100  
128 55.4 33.4 50.0#  
54 45.5 36.7 55.1







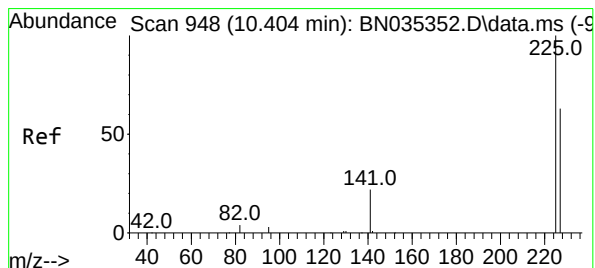
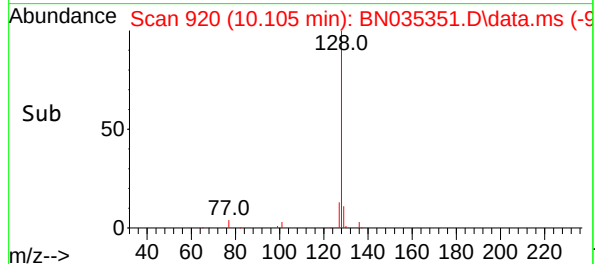
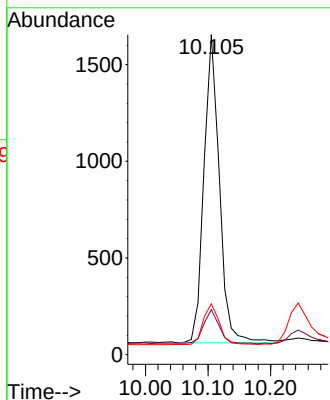
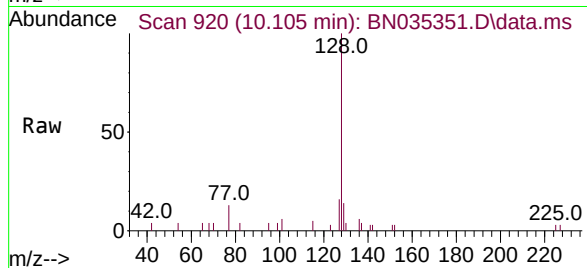
#9  
Naphthalene  
Concen: 0.197 ng  
RT: 10.105 min Scan# 911  
Delta R.T. -0.000 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

Tgt Ion:128 Resp: 2744  
Ion Ratio Lower Upper  
128 100  
129 14.0 9.8 14.6  
127 15.9 11.4 17.2

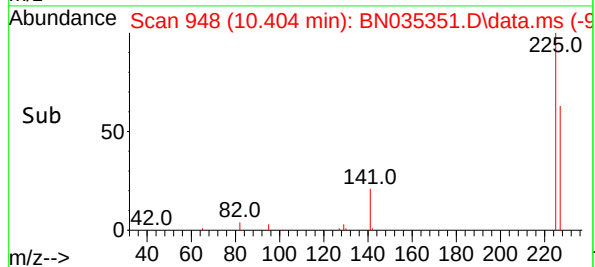
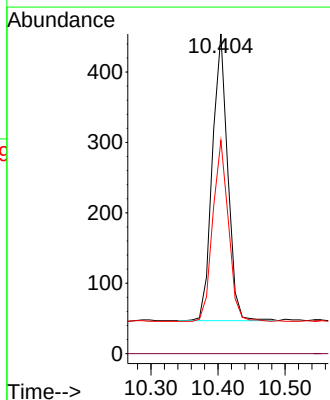
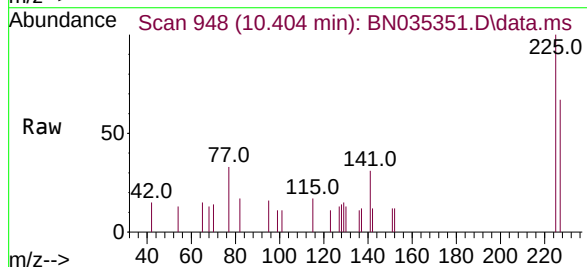
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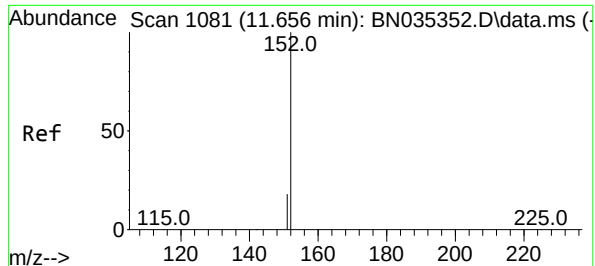
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#10  
Hexachlorobutadiene  
Concen: 0.158 ng  
RT: 10.404 min Scan# 948  
Delta R.T. -0.000 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

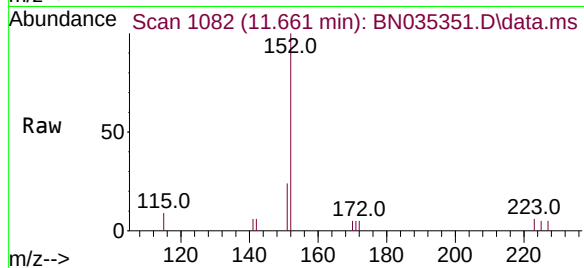
Tgt Ion:225 Resp: 646  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 64.7 51.3 76.9





#11  
2-Methylnaphthalene-d10  
Concen: 0.169 ng  
RT: 11.661 min Scan# 1082  
Delta R.T. 0.005 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

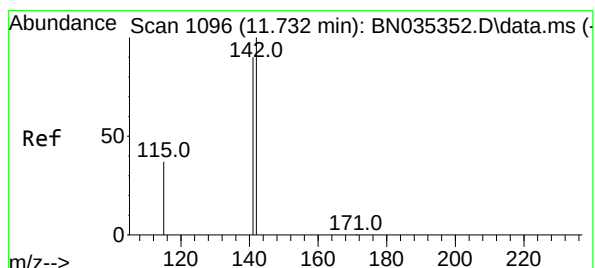
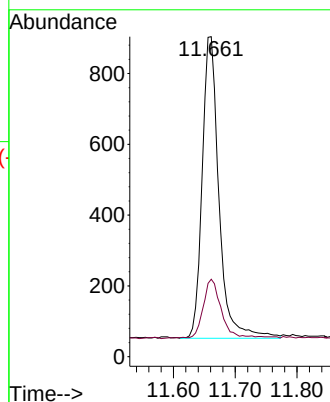
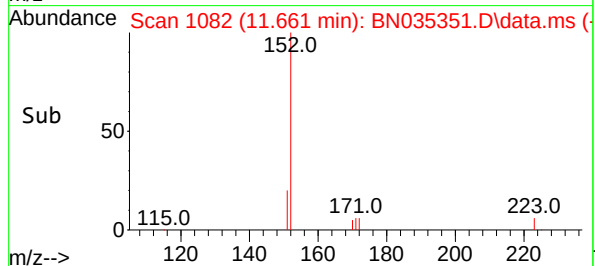
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2



Tgt Ion:152 Resp: 1608  
Ion Ratio Lower Upper  
152 100  
151 22.3 16.6 25.0

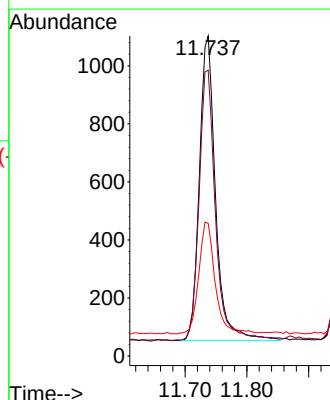
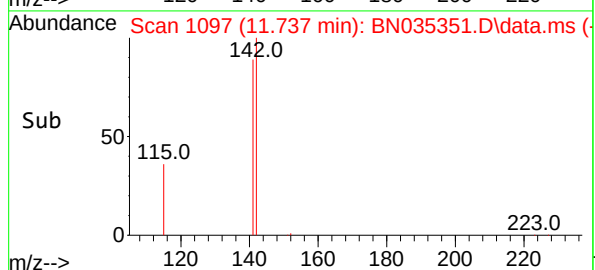
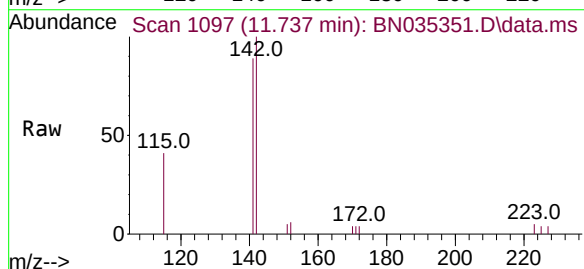
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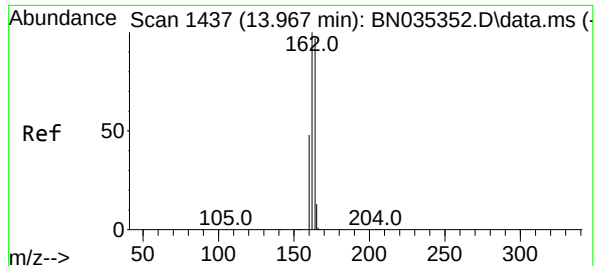
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#12  
2-Methylnaphthalene  
Concen: 0.186 ng  
RT: 11.737 min Scan# 1097  
Delta R.T. 0.005 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

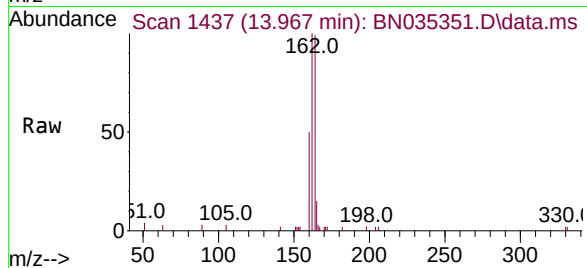
Tgt Ion:142 Resp: 1910  
Ion Ratio Lower Upper  
142 100  
141 89.3 72.2 108.4  
115 41.4 31.4 47.0





#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.967 min Scan# 1437  
Delta R.T. -0.000 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

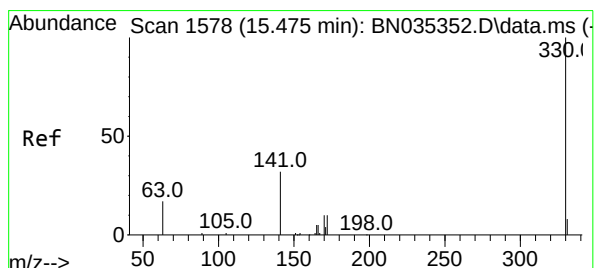
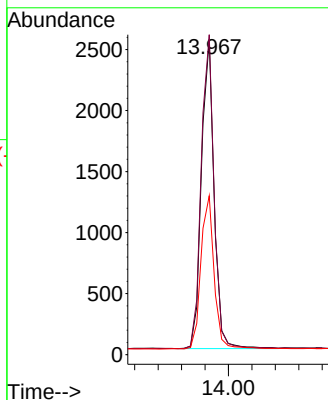
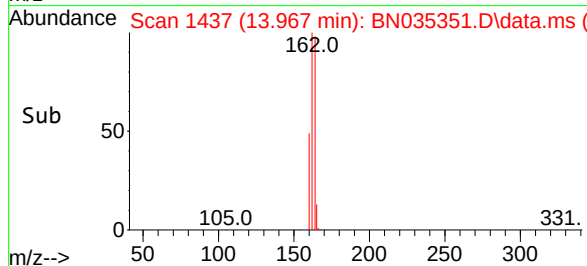
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2



Tgt Ion:164 Resp: 3808  
Ion Ratio Lower Upper  
164 100  
162 101.5 82.2 123.2  
160 50.4 40.1 60.1

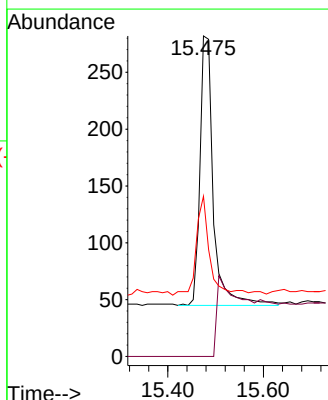
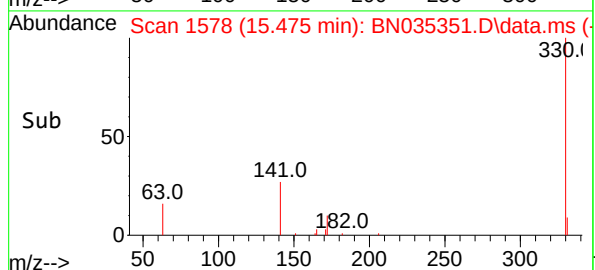
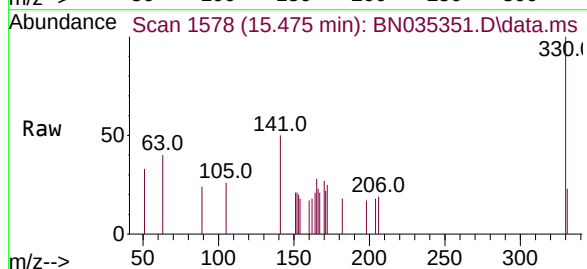
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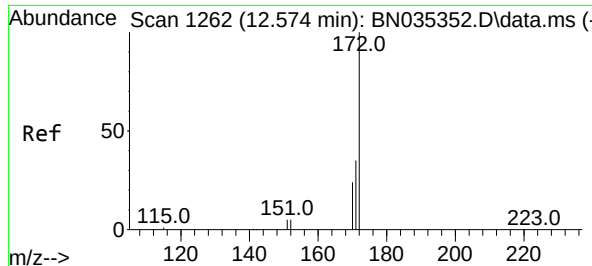
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#14  
2,4,6-Tribromophenol  
Concen: 0.179 ng  
RT: 15.475 min Scan# 1578  
Delta R.T. -0.000 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

Tgt Ion:330 Resp: 492  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 37.2 26.6 40.0





#15

2-Fluorobiphenyl

Concen: 0.184 ng

RT: 12.574 min Scan# 1262

Delta R.T. -0.000 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2

Tgt Ion:172 Resp: 2838

Ion Ratio Lower Upper

172 100

171 37.9 29.0 43.4

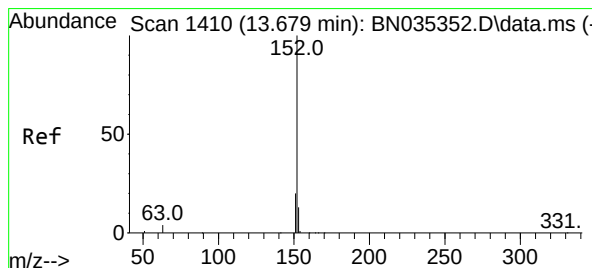
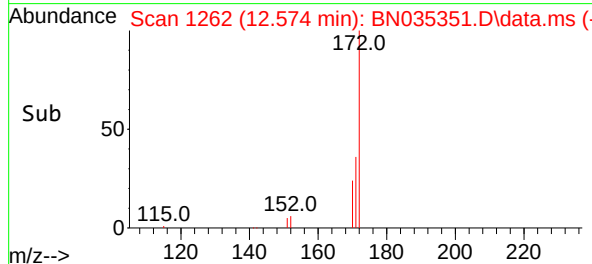
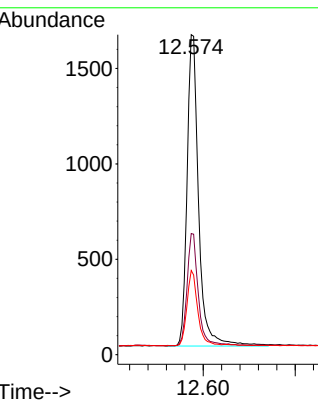
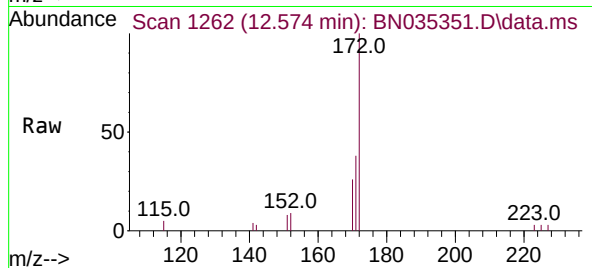
170 26.3 19.8 29.8

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Supervised By :mohammad ahmed 12/03/2024



#16

Acenaphthylene

Concen: 0.187 ng

RT: 13.678 min Scan# 1410

Delta R.T. -0.000 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

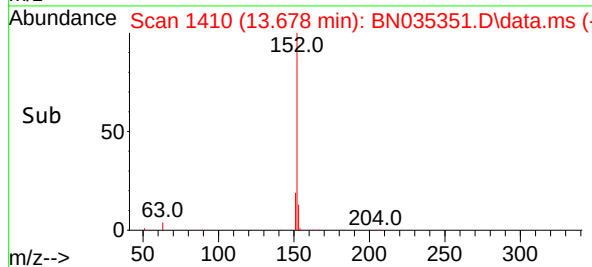
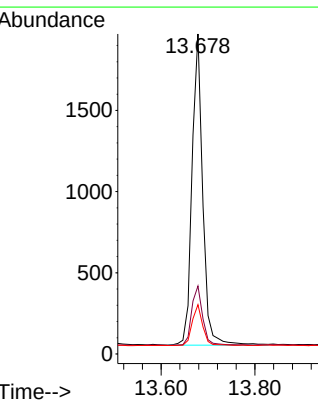
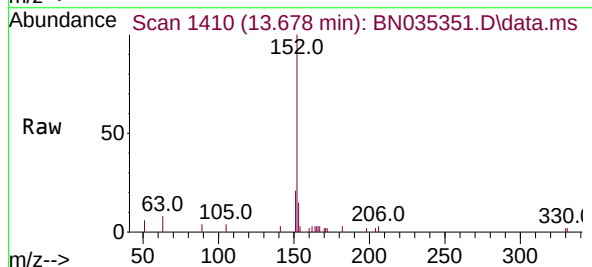
Tgt Ion:152 Resp: 3047

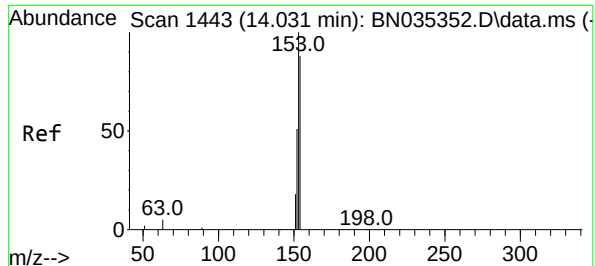
Ion Ratio Lower Upper

152 100

151 19.8 16.2 24.2

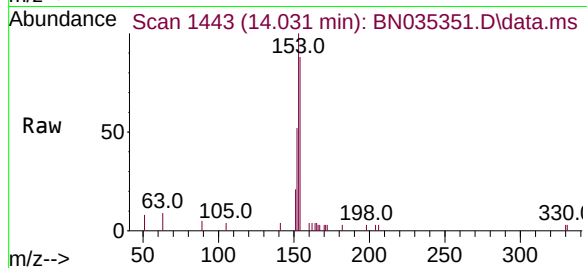
153 12.9 10.4 15.6





#17  
Acenaphthene  
Concen: 0.194 ng  
RT: 14.031 min Scan# 1443  
Delta R.T. -0.000 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

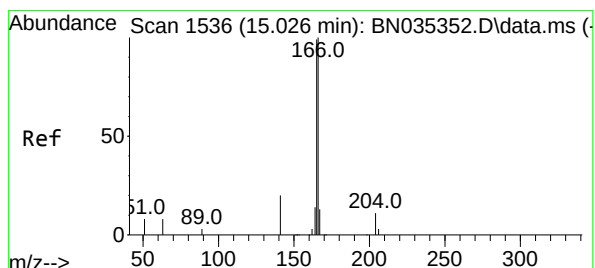
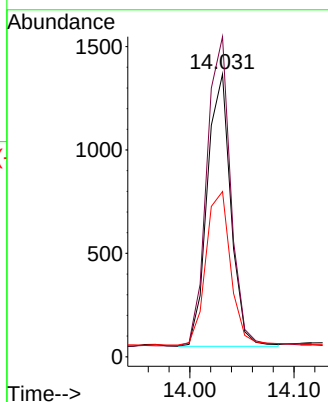
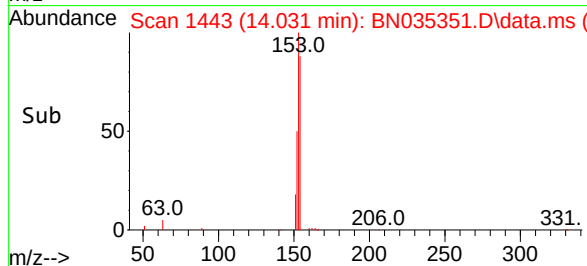
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2



Tgt Ion:154 Resp: 2064  
Ion Ratio Lower Upper  
154 100  
153 115.2 92.6 139.0  
152 60.7 49.0 73.6

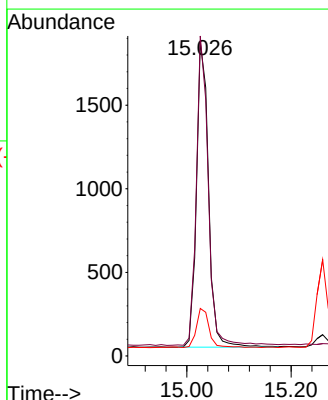
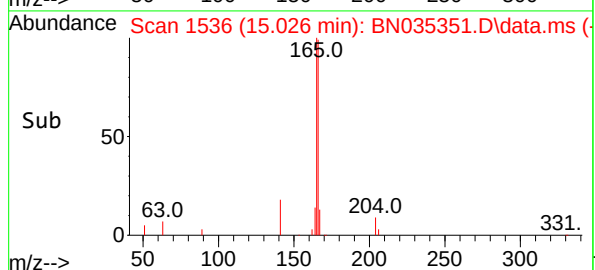
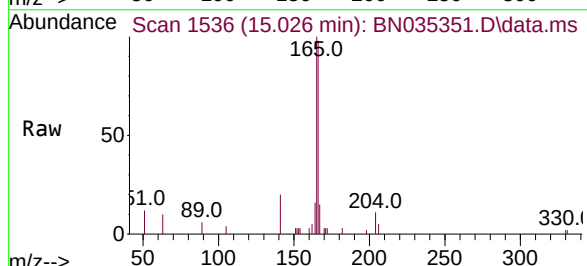
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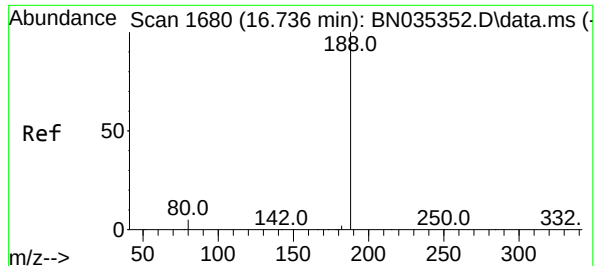
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#18  
Fluorene  
Concen: 0.188 ng  
RT: 15.026 min Scan# 1536  
Delta R.T. -0.000 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

Tgt Ion:166 Resp: 2949  
Ion Ratio Lower Upper  
166 100  
165 99.1 79.7 119.5  
167 14.1 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.735 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2

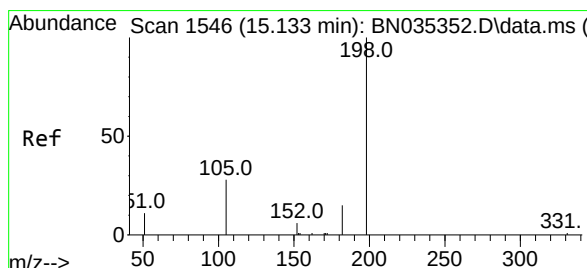
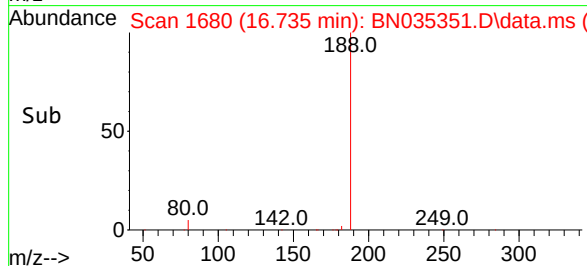
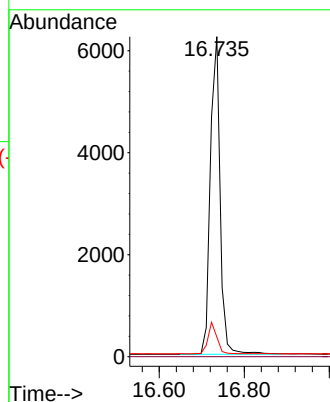
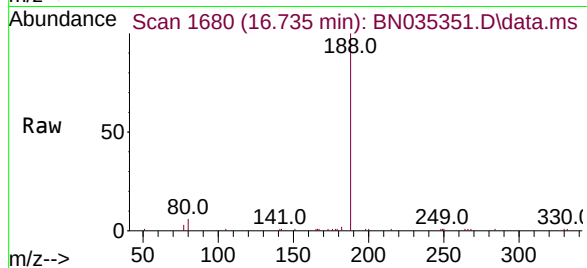
|             |       |       |
|-------------|-------|-------|
| Tgt Ion:188 | Resp: | 990   |
| Ion Ratio   | Lower | Upper |
| 188         | 100   |       |
| 94          | 0.0   | 0.0   |
| 80          | 6.2   | 6.8   |

## Manual Integrations

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Supervised By :mohammad ahmed 12/03/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 0.074 ng

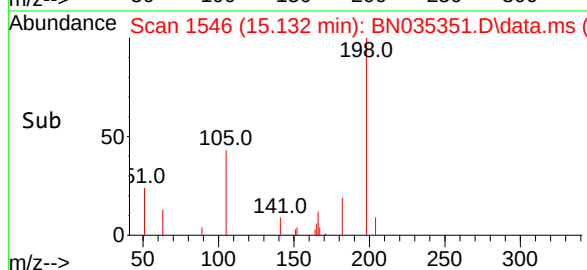
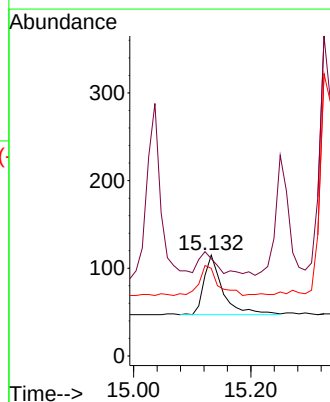
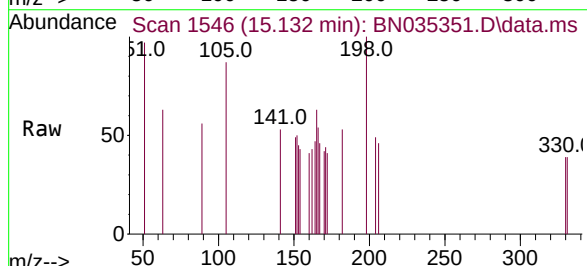
RT: 15.132 min Scan# 1546

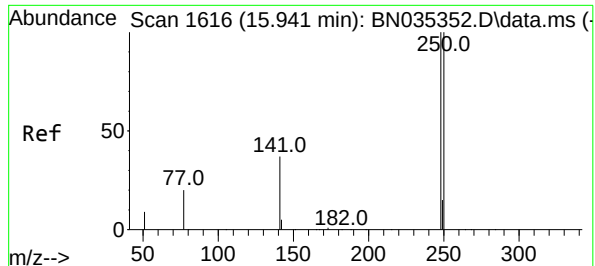
Delta R.T. -0.000 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

|             |       |       |
|-------------|-------|-------|
| Tgt Ion:198 | Resp: | 153   |
| Ion Ratio   | Lower | Upper |
| 198         | 100   |       |
| 51          | 96.5  | 46.5  |
| 105         | 87.0  | 45.3  |





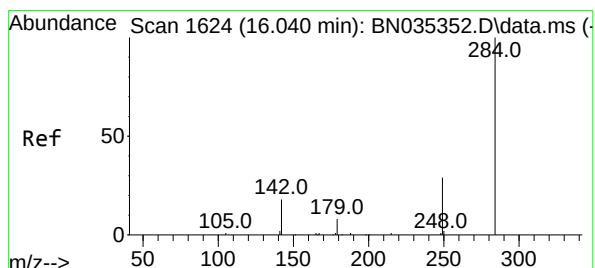
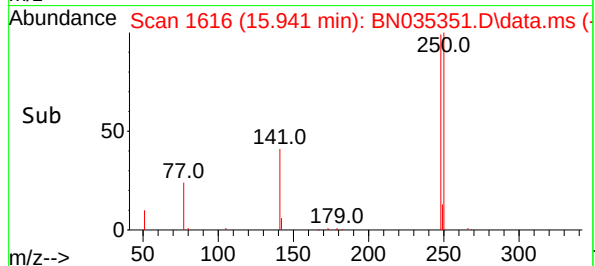
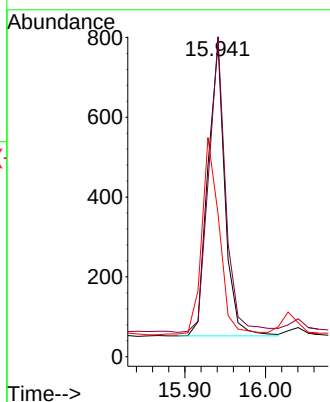
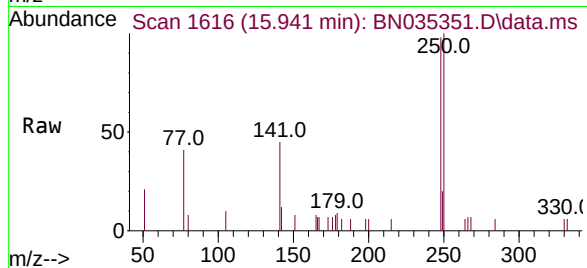
#21  
4-Bromophenyl-phenylether  
Concen: 0.171 ng  
RT: 15.941 min Scan# 1616  
Delta R.T. -0.000 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

Tgt Ion:248 Resp: 108  
Ion Ratio Lower Upper  
248 100  
250 102.3 80.6 120.8  
141 45.7 31.5 47.3

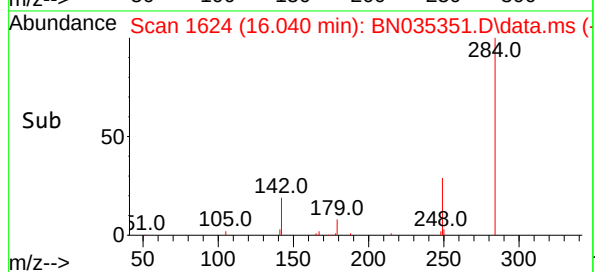
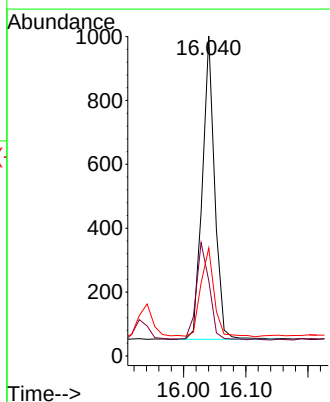
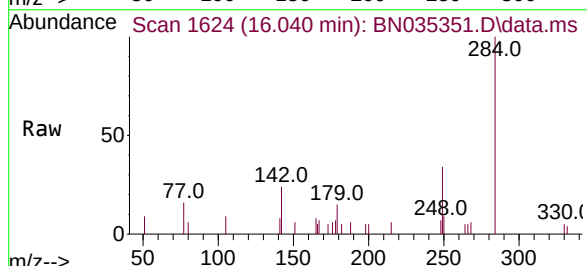
Manual Integrations  
APPROVED

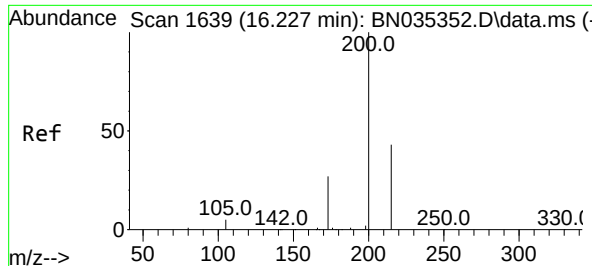
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#22  
Hexachlorobenzene  
Concen: 0.201 ng  
RT: 16.040 min Scan# 1624  
Delta R.T. -0.000 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

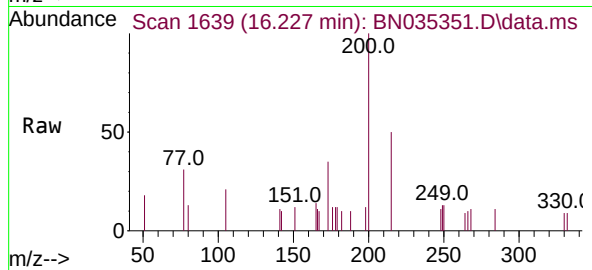
Tgt Ion:284 Resp: 1318  
Ion Ratio Lower Upper  
284 100  
142 34.2 26.7 40.1  
249 32.0 24.6 36.8





#23  
Atrazine  
Concen: 0.136 ng  
RT: 16.227 min Scan# 1639  
Delta R.T. -0.000 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

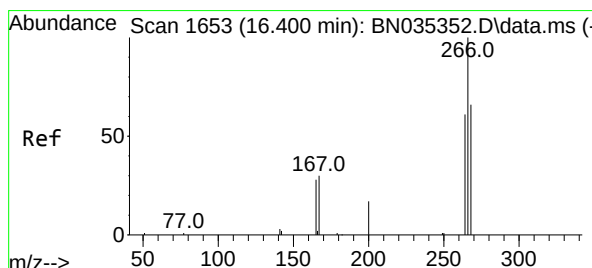
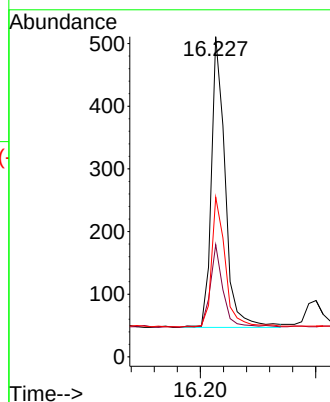
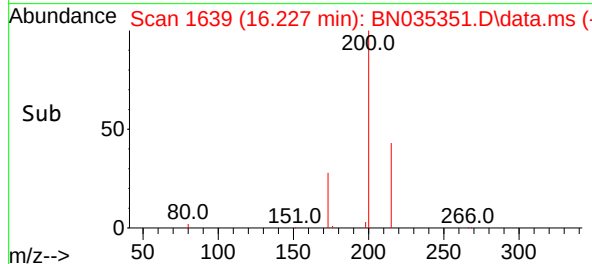
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2



Tgt Ion:200 Resp: 770  
Ion Ratio Lower Upper  
200 100  
173 35.0 24.1 36.1  
215 49.9 36.9 55.3

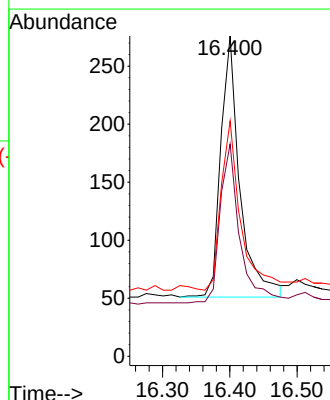
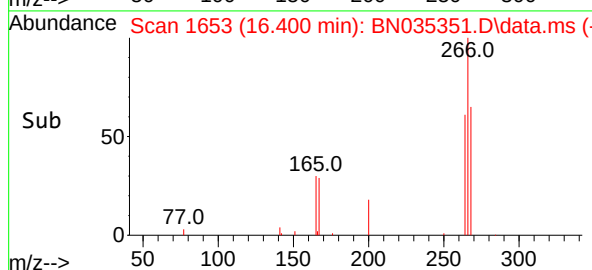
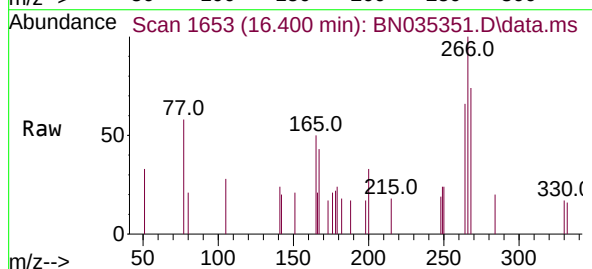
Manual Integrations  
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Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024

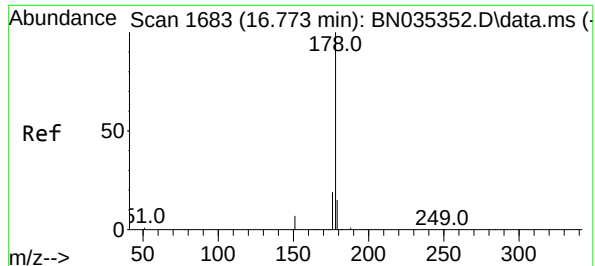


#24  
Pentachlorophenol  
Concen: 0.145 ng  
RT: 16.400 min Scan# 1653  
Delta R.T. -0.000 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

Tgt Ion:266 Resp: 445  
Ion Ratio Lower Upper  
266 100  
264 62.7 42.3 63.5  
268 67.2 43.3 64.9#







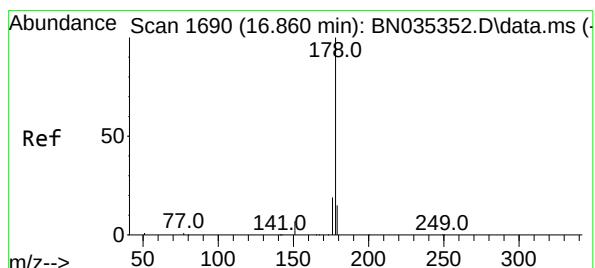
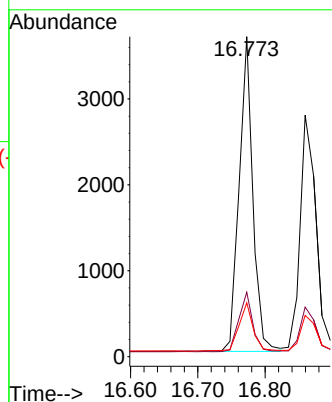
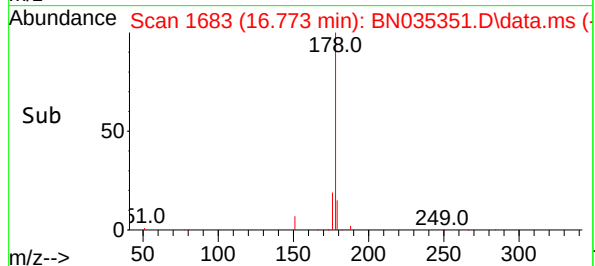
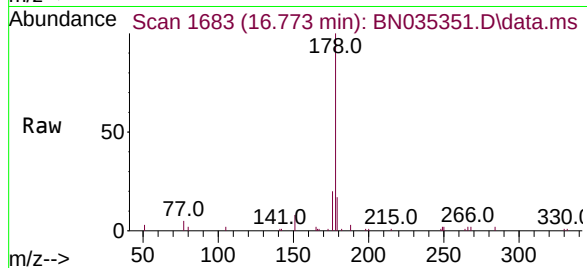
#25  
Phenanthrene  
Concen: 0.199 ng  
RT: 16.773 min Scan# 1683  
Delta R.T. -0.000 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

Tgt Ion:178 Resp: 518  
Ion Ratio Lower Upper  
178 100  
176 18.9 15.4 23.2  
179 15.9 12.3 18.5

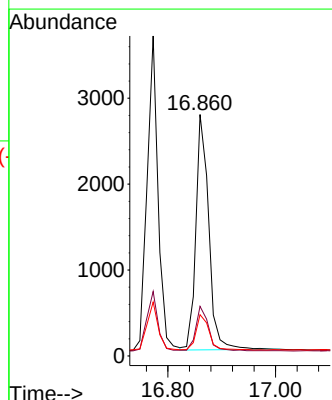
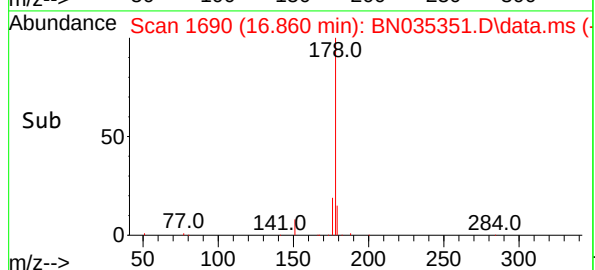
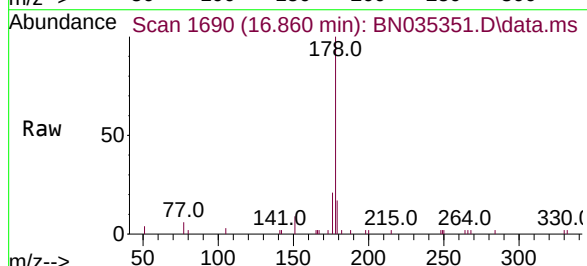
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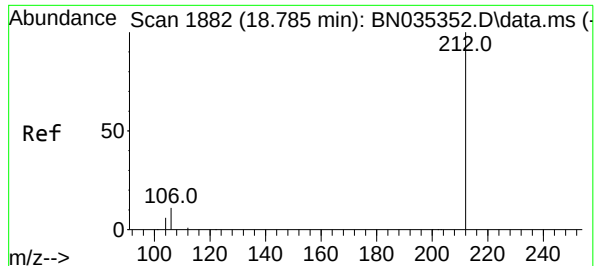
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#26  
Anthracene  
Concen: 0.191 ng  
RT: 16.860 min Scan# 1690  
Delta R.T. -0.000 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

Tgt Ion:178 Resp: 4571  
Ion Ratio Lower Upper  
178 100  
176 18.7 15.0 22.6  
179 15.4 12.6 18.8





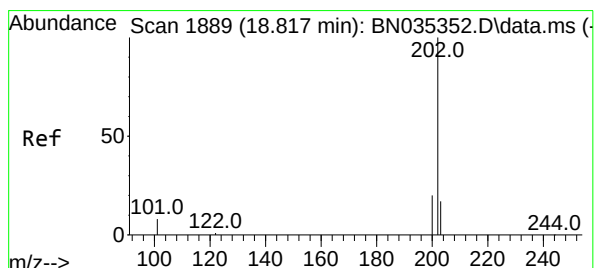
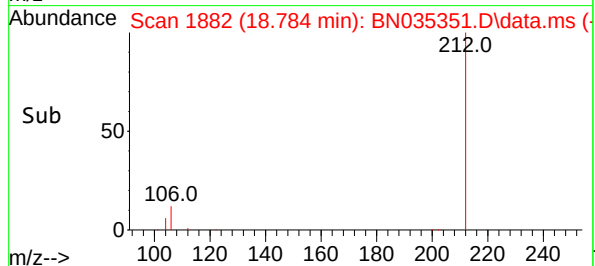
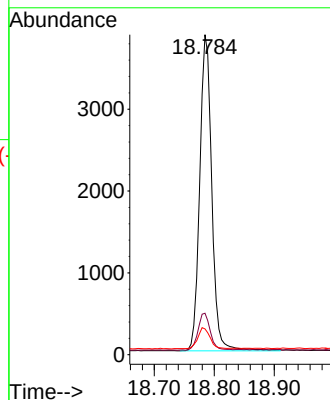
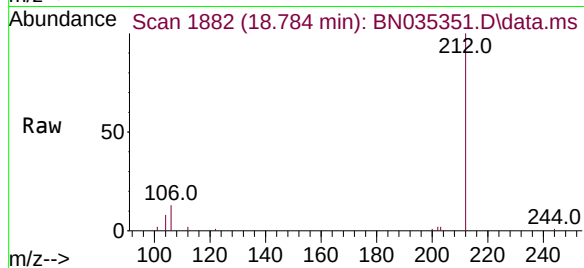
#27  
Fluoranthene-d10  
Concen: 0.177 ng  
RT: 18.784 min Scan# 1882  
Delta R.T. -0.000 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

Tgt Ion:212 Resp: 5379  
Ion Ratio Lower Upper  
212 100  
106 11.8 9.2 13.8  
104 6.9 5.3 7.9

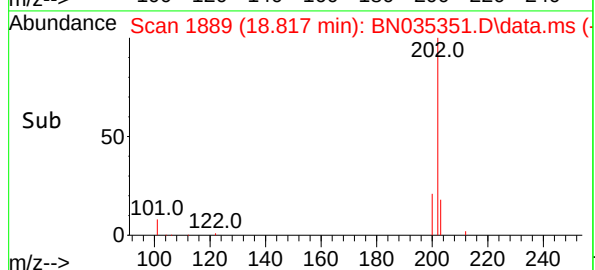
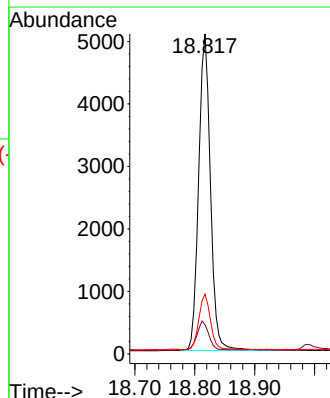
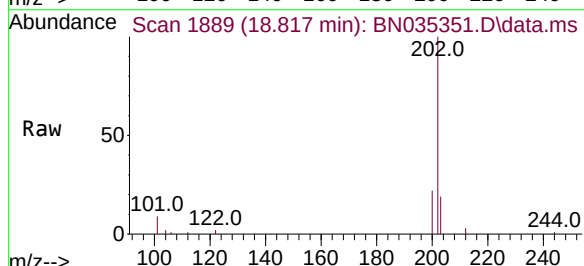
Manual Integrations  
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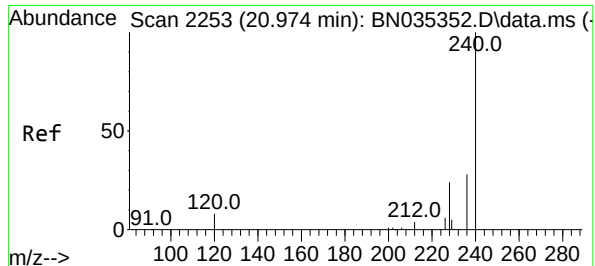
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#28  
Fluoranthene  
Concen: 0.193 ng  
RT: 18.817 min Scan# 1889  
Delta R.T. -0.000 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

Tgt Ion:202 Resp: 6914  
Ion Ratio Lower Upper  
202 100  
101 9.3 7.4 11.0  
203 17.3 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.974 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

Instrument :

BNA\_N

ClientSampleId :

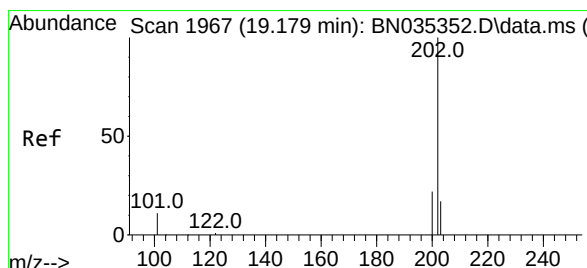
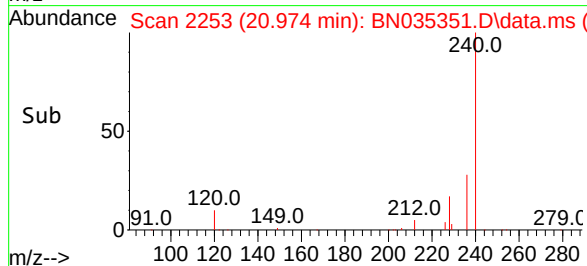
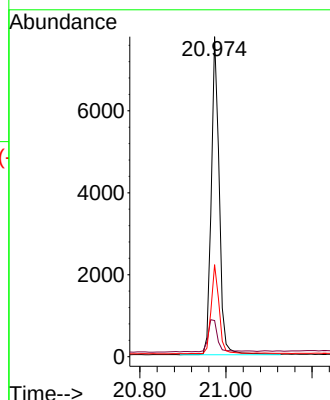
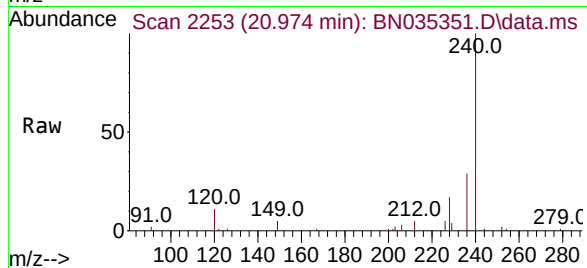
SSTDICC0.2

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 240   | Resp: | 996  |
| Ion Ratio | Lower | Upper |      |
| 240       | 100   |       |      |
| 120       | 11.3  | 7.9   | 11.9 |
| 236       | 28.8  | 22.9  | 34.3 |

Manual Integrations

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Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#30

Pyrene

Concen: 0.217 ng

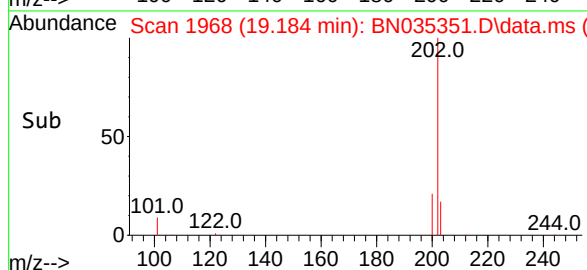
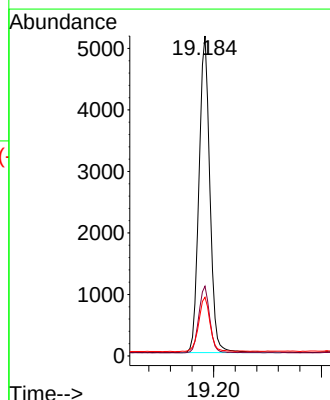
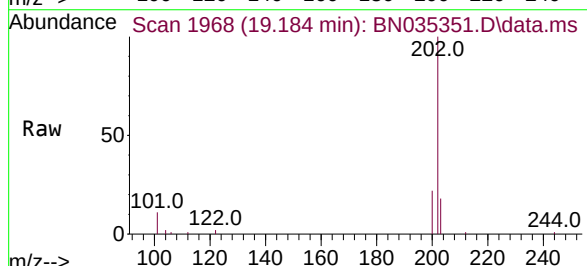
RT: 19.184 min Scan# 1968

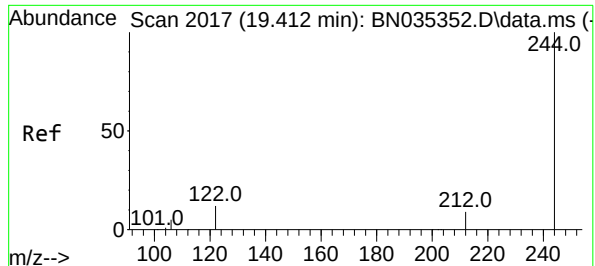
Delta R.T. 0.005 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 202   | Resp: | 7198 |
| Ion Ratio | Lower | Upper |      |
| 202       | 100   |       |      |
| 200       | 21.3  | 17.0  | 25.4 |
| 203       | 18.0  | 14.3  | 21.5 |





#31  
Terphenyl-d14  
Concen: 0.185 ng  
RT: 19.416 min Scan# 2017  
Delta R.T. 0.005 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

Instrument :

BNA\_N

ClientSampleId :

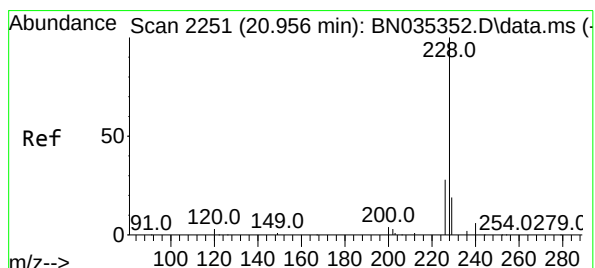
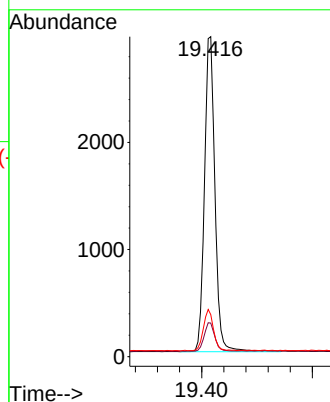
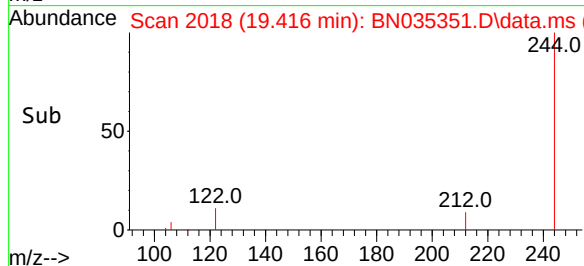
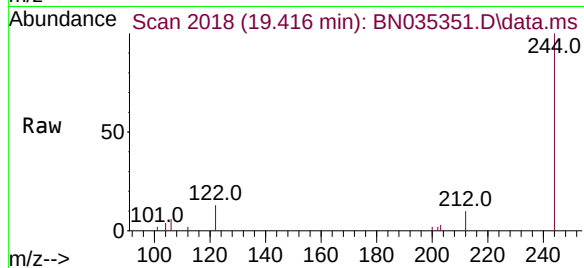
SSTDICC0.2

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 10.5  | 8.1   | 12.1  |
| 122     | 13.1  | 10.3  | 15.5  |

Manual Integrations

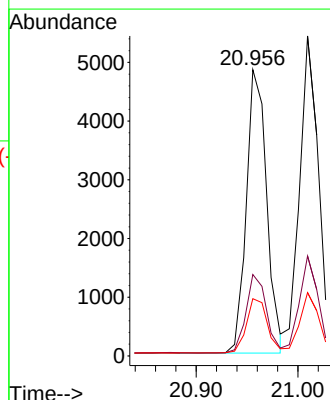
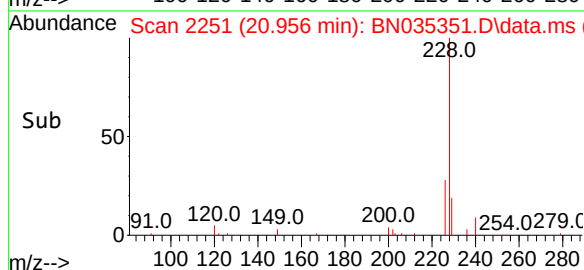
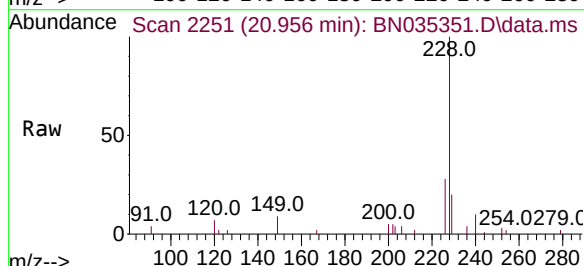
APPROVED

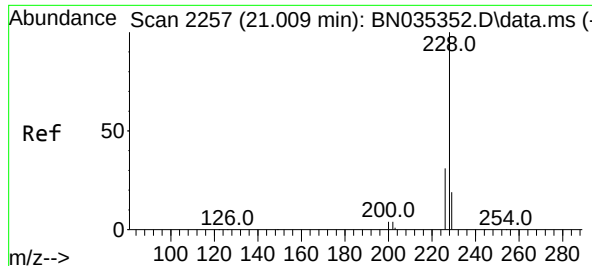
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#32  
Benzo(a)anthracene  
Concen: 0.193 ng  
RT: 20.956 min Scan# 2251  
Delta R.T. -0.000 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 28.4  | 22.5  | 33.7  |
| 229     | 20.0  | 15.8  | 23.8  |





#33

Chrysene

Concen: 0.211 ng

RT: 21.009 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2

Tgt Ion:228 Resp: 7234

Ion Ratio Lower Upper

228 100

226 31.2 24.6 37.0

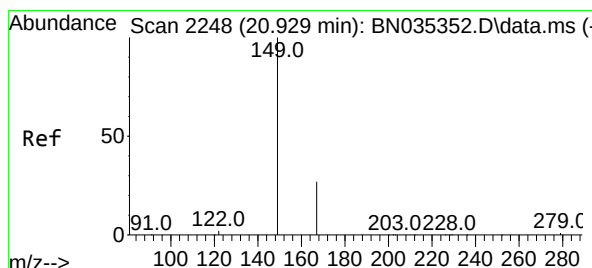
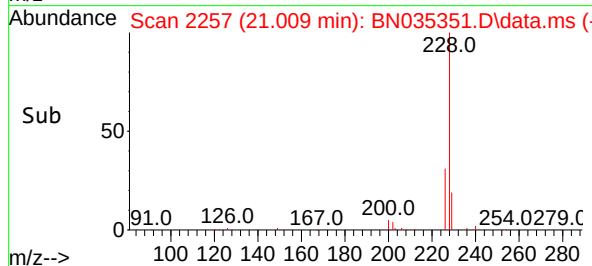
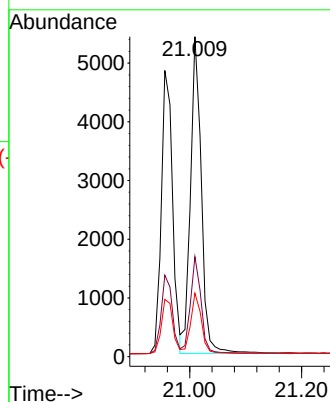
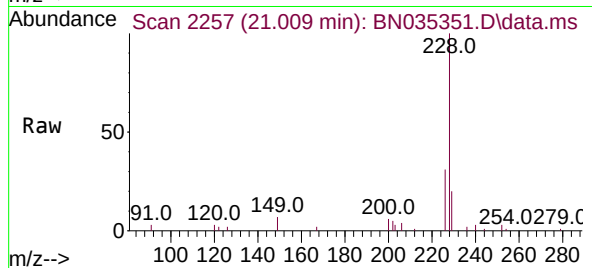
229 19.8 15.9 23.9

Manual Integrations

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Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.153 ng

RT: 20.938 min Scan# 2249

Delta R.T. 0.009 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

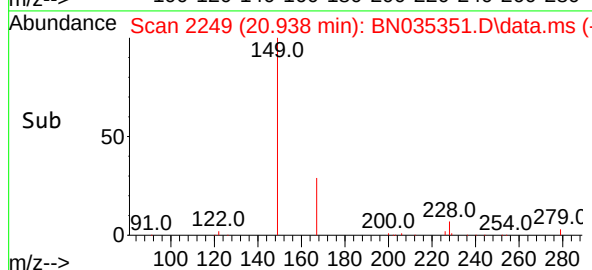
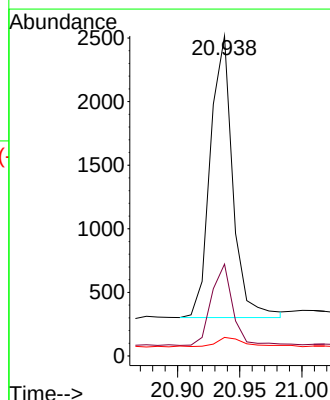
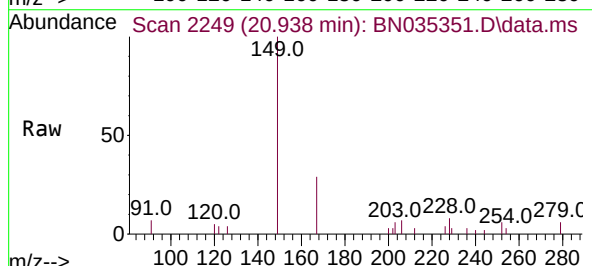
Tgt Ion:149 Resp: 2779

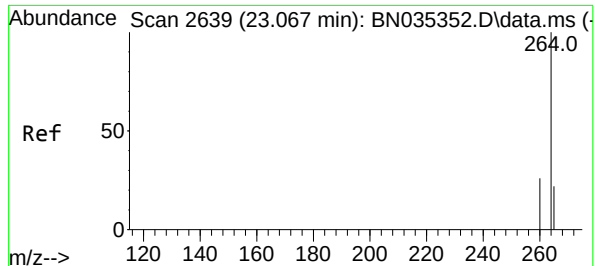
Ion Ratio Lower Upper

149 100

167 27.5 22.2 33.4

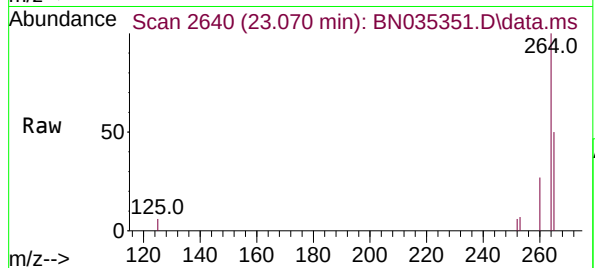
279 4.8 2.7 4.1#





#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.070 min Scan# 2640  
Delta R.T. 0.003 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

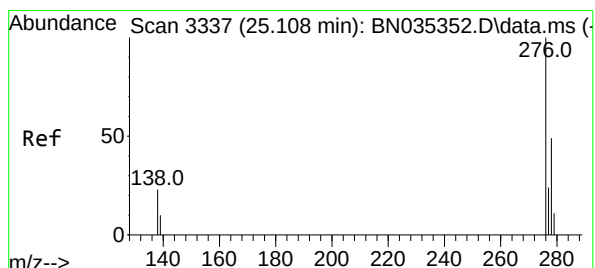
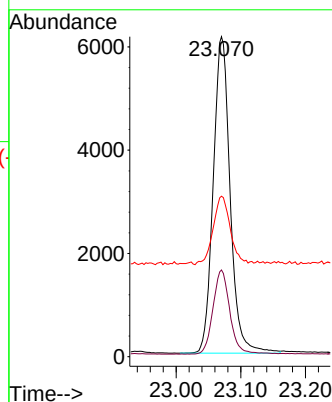
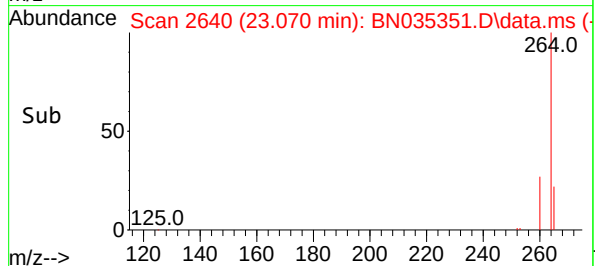
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2



Tgt Ion:264 Resp: 11158  
Ion Ratio Lower Upper  
264 100  
260 27.1 21.4 32.2  
265 50.2 40.2 60.4

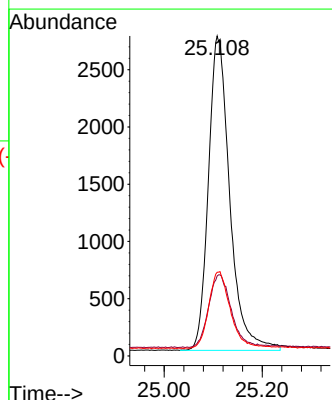
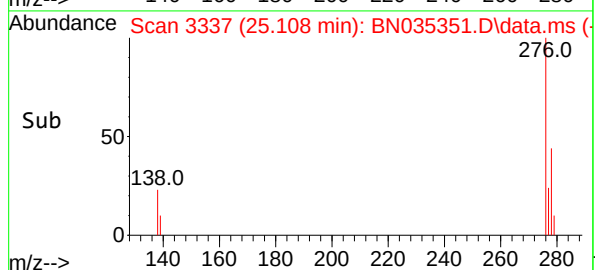
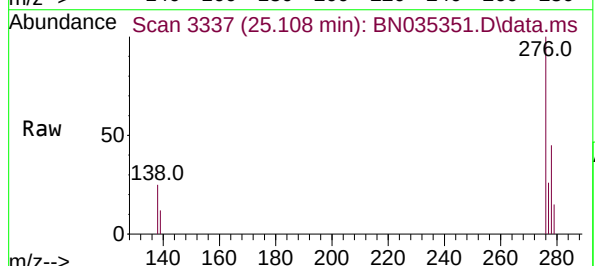
Manual Integrations  
APPROVED

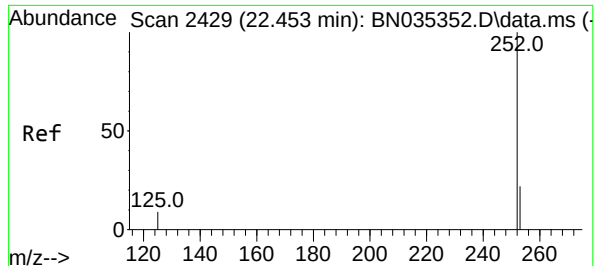
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.187 ng  
RT: 25.108 min Scan# 3337  
Delta R.T. -0.000 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

Tgt Ion:276 Resp: 8305  
Ion Ratio Lower Upper  
276 100  
138 24.3 19.4 29.0  
277 24.7 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.200 ng

RT: 22.456 min Scan# 2429

Delta R.T. 0.003 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

Instrument :

BNA\_N

ClientSampleId :

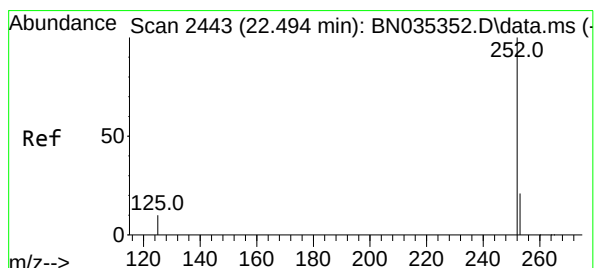
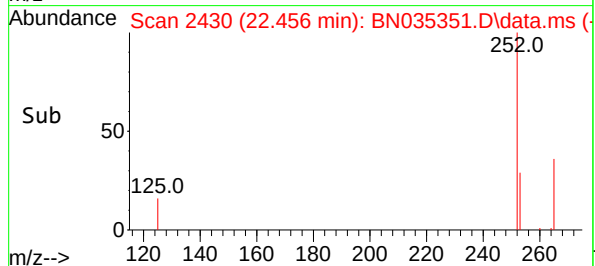
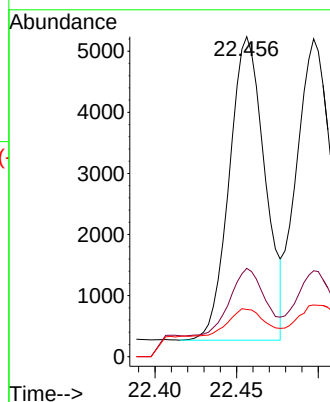
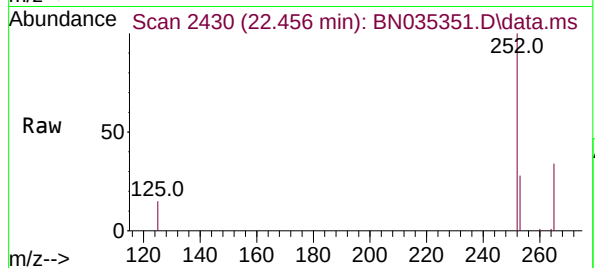
SSTDICC0.2

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:252 | Resp: | 752       |
| Ion Ratio   | Lower | Upper     |
| 252         | 100   |           |
| 253         | 27.6  | 19.6 29.4 |
| 125         | 14.8  | 9.6 14.4  |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#38

Benzo(k)fluoranthene

Concen: 0.204 ng m

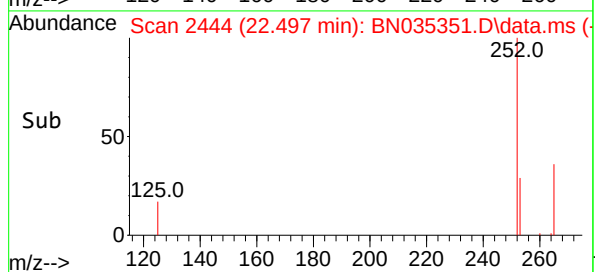
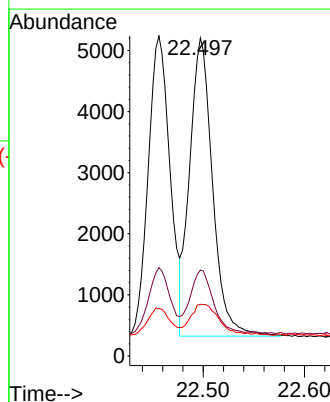
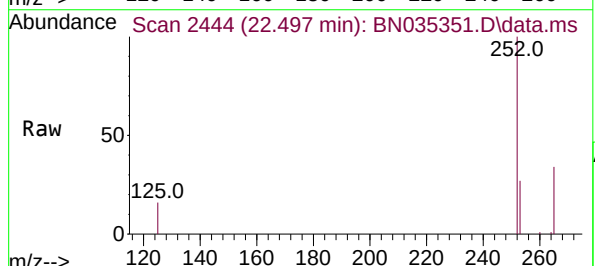
RT: 22.497 min Scan# 2444

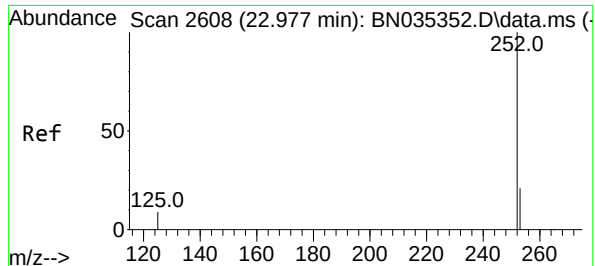
Delta R.T. 0.003 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:252 | Resp: | 7675      |
| Ion Ratio   | Lower | Upper     |
| 252         | 100   |           |
| 253         | 27.0  | 19.5 29.3 |
| 125         | 16.2  | 10.2 15.4 |





#39

Benzo(a)pyrene

Concen: 0.195 ng

RT: 22.980 min Scan# 2609

Delta R.T. 0.003 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2

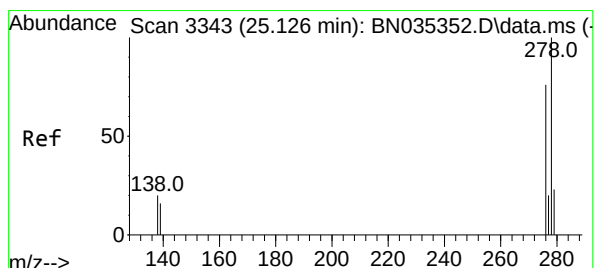
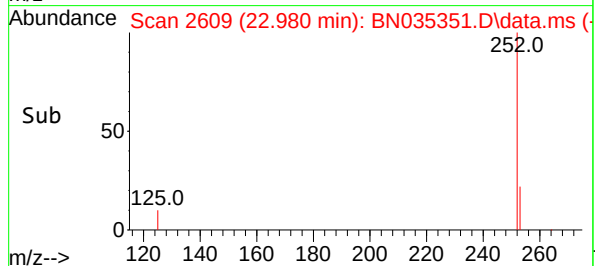
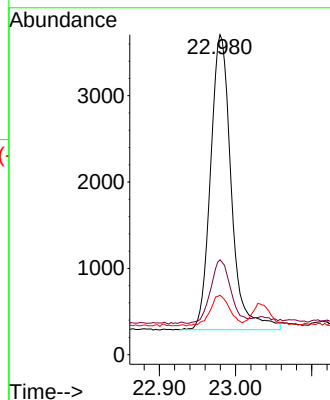
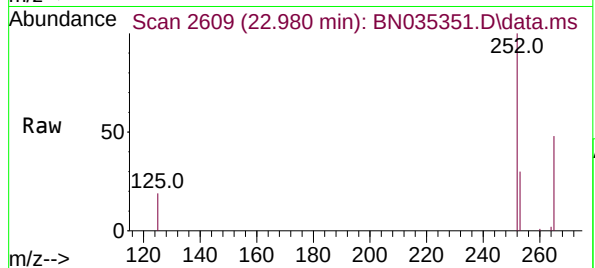
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:252 | Resp: | 6450      |
| Ion Ratio   | Lower | Upper     |
| 252         | 100   |           |
| 253         | 29.7  | 20.2 30.4 |
| 125         | 18.5  | 10.9 16.3 |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.188 ng

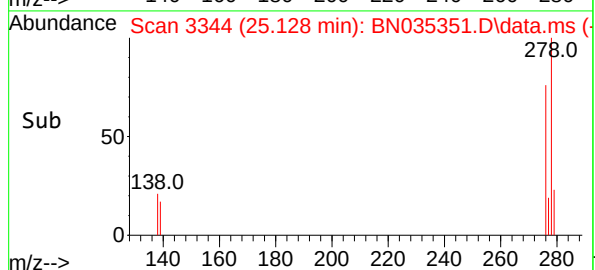
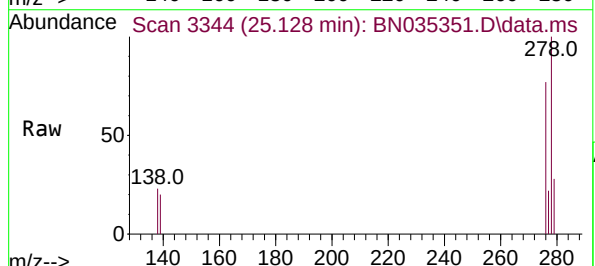
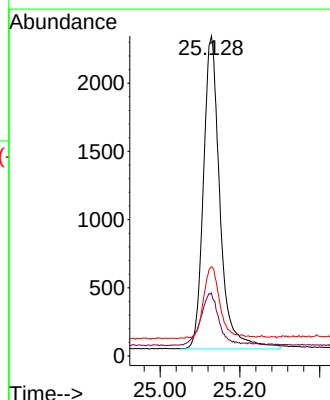
RT: 25.128 min Scan# 3344

Delta R.T. 0.003 min

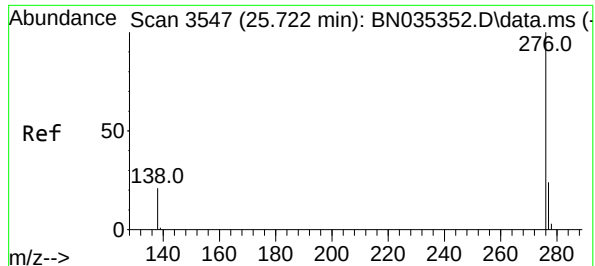
Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:278 | Resp: | 6620      |
| Ion Ratio   | Lower | Upper     |
| 278         | 100   |           |
| 139         | 19.7  | 14.2 21.4 |
| 279         | 27.9  | 20.5 30.7 |







#41

Benzo(g,h,i)perylene

Concen: 0.184 ng

RT: 25.725 min Scan# 3

Delta R.T. 0.003 min

Lab File: BN035351.D

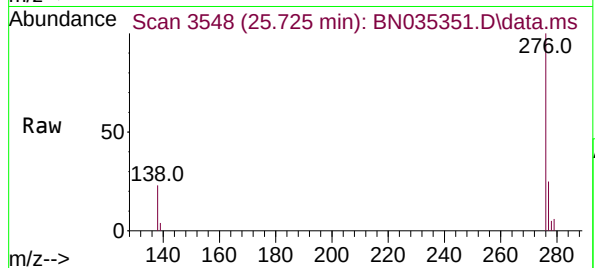
Acq: 27 Nov 2024 16:10

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2



Tgt Ion:276 Resp: 6908

Ion Ratio Lower Upper

276 100

277 25.5 19.9 29.9

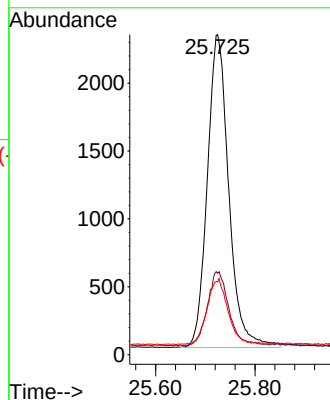
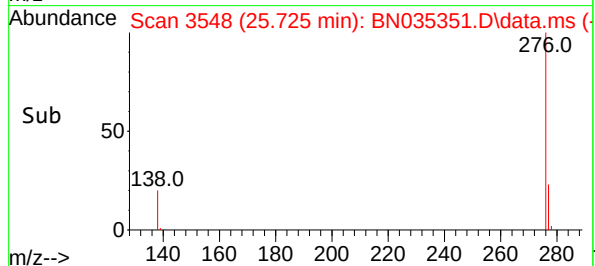
138 22.7 17.8 26.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112724\  
 Data File : BN035352.D  
 Acq On : 27 Nov 2024 16:46  
 Operator : RC/JU  
 Sample : SSTDICCC0.4  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

## Instrument :

BNA\_N

## ClientSampleId :

SSTDICCC0.4

## Manual Integrations

## APPROVED

Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024

Quant Time: Nov 27 22:52:52 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Nov 27 22:48:24 2024

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.308  | 152  | 2048     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.052 | 136  | 5229     | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 13.967 | 164  | 3799     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 16.736 | 188  | 9490     | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 20.974 | 240  | 9527     | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.067 | 264  | 10842    | 0.400 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 4.968  | 112  | 2085     | 0.401 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.513  | 99   | 2444     | 0.375 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.440  | 82   | 1228m    | 0.270 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.656 | 152  | 3237     | 0.347 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.475 | 330  | 975      | 0.356 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.574 | 172  | 5735     | 0.372 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 18.785 | 212  | 10223    | 0.352 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.412 | 244  | 7533     | 0.377 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
|                               |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.003  | 88   | 771      | 0.414 | ng    | 100      |
| 3) n-Nitrosodimethylamine     | 3.292  | 42   | 668      | 0.385 | ng    | 100      |
| 6) bis(2-Chloroethyl)ether    | 6.759  | 93   | 2032     | 0.415 | ng    | 100      |
| 9) Naphthalene                | 10.105 | 128  | 5475     | 0.401 | ng    | 100      |
| 10) Hexachlorobutadiene       | 10.404 | 225  | 1292     | 0.323 | ng    | # 100    |
| 12) 2-Methylnaphthalene       | 11.732 | 142  | 3867     | 0.384 | ng    | 100      |
| 16) Acenaphthylene            | 13.679 | 152  | 6058     | 0.373 | ng    | 100      |
| 17) Acenaphthene              | 14.031 | 154  | 4125     | 0.388 | ng    | 100      |
| 18) Fluorene                  | 15.026 | 166  | 5863     | 0.375 | ng    | 100      |
| 20) 4,6-Dinitro-2-methylph... | 15.133 | 198  | 337      | 0.171 | ng    | 100      |
| 21) 4-Bromophenyl-phenylether | 15.941 | 248  | 2146     | 0.355 | ng    | 100      |
| 22) Hexachlorobenzene         | 16.040 | 284  | 2590     | 0.413 | ng    | 100      |
| 23) Atrazine                  | 16.227 | 200  | 1461     | 0.269 | ng    | 100      |
| 24) Pentachlorophenol         | 16.400 | 266  | 906      | 0.309 | ng    | 87       |
| 25) Phenanthrene              | 16.773 | 178  | 10127    | 0.405 | ng    | 100      |
| 26) Anthracene                | 16.860 | 178  | 8921     | 0.389 | ng    | 100      |
| 28) Fluoranthene              | 18.817 | 202  | 13438    | 0.391 | ng    | 100      |
| 30) Pyrene                    | 19.179 | 202  | 14053    | 0.443 | ng    | 100      |
| 32) Benzo(a)anthracene        | 20.956 | 228  | 12908    | 0.389 | ng    | 100      |
| 33) Chrysene                  | 21.009 | 228  | 13729    | 0.418 | ng    | 100      |
| 34) Bis(2-ethylhexyl)phtha... | 20.929 | 149  | 4912     | 0.282 | ng    | 100      |
| 36) Indeno(1,2,3-cd)pyrene    | 25.108 | 276  | 16615    | 0.384 | ng    | 100      |
| 37) Benzo(b)fluoranthene      | 22.453 | 252  | 14235    | 0.390 | ng    | 100      |
| 38) Benzo(k)fluoranthene      | 22.494 | 252  | 15199    | 0.416 | ng    | 100      |
| 39) Benzo(a)pyrene            | 22.977 | 252  | 12425    | 0.387 | ng    | 100      |
| 40) Dibenzo(a,h)anthracene    | 25.126 | 278  | 12948    | 0.378 | ng    | 100      |
| 41) Benzo(g,h,i)perylene      | 25.722 | 276  | 13529    | 0.371 | ng    | 100      |
| -----                         |        |      |          |       |       |          |

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

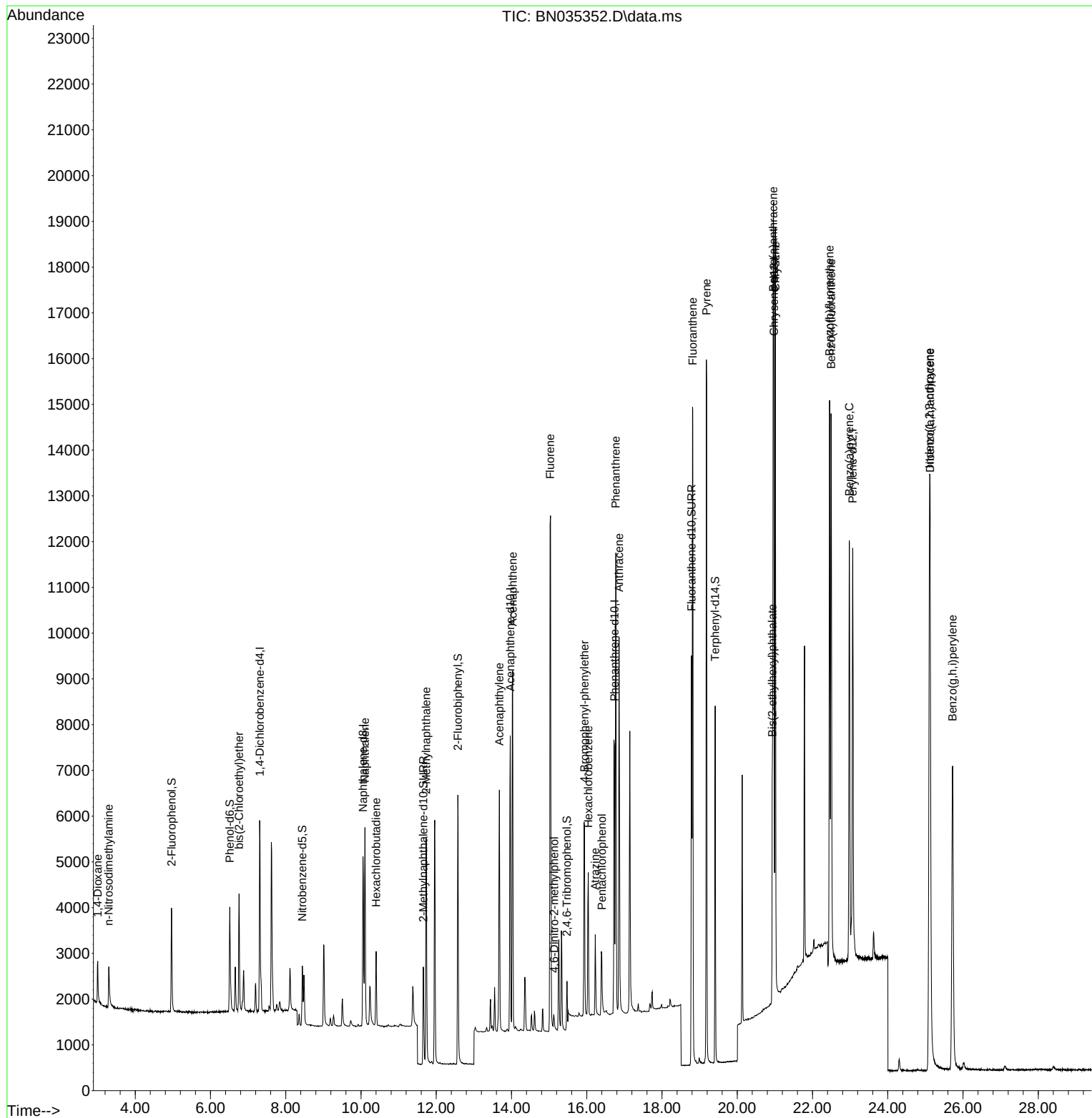
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112724\  
Data File : BN035352.D  
Acq On : 27 Nov 2024 16:46  
Operator : RC/JU  
Sample : SSTDICCC0.4  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

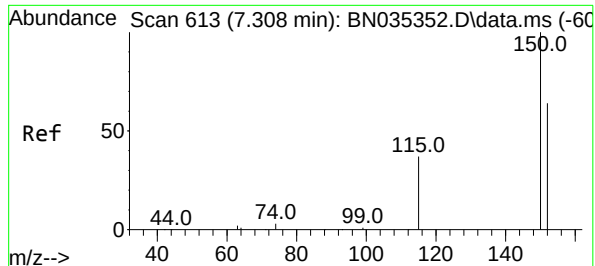
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

Quant Time: Nov 27 22:52:52 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Nov 27 22:48:24 2024  
Response via : Initial Calibration

Manual Integrations  
APPROVED

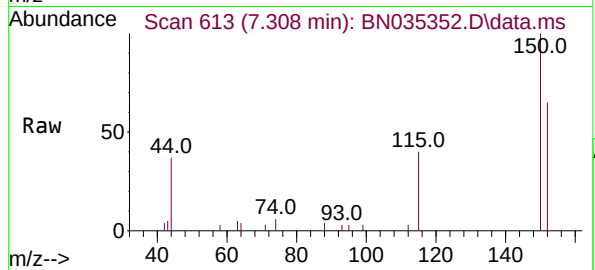
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024





#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.308 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

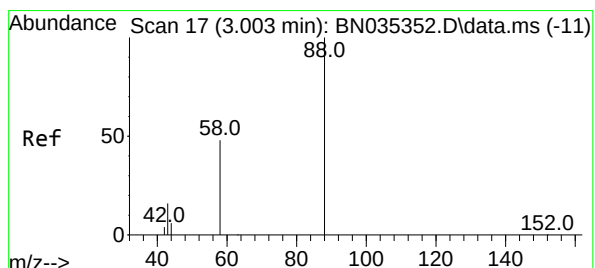
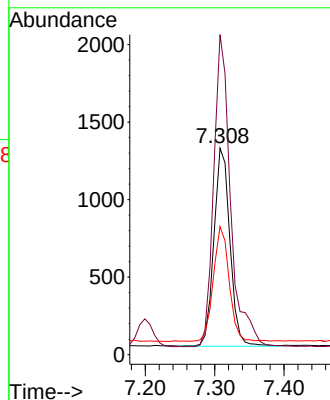
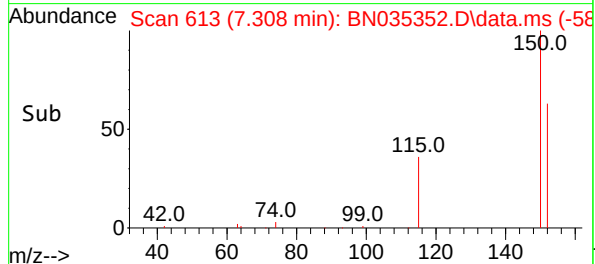
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4



Tgt Ion: 152 Resp: 2048  
Ion Ratio Lower Upper  
152 100  
150 155.0 124.0 186.0  
115 62.0 49.6 74.4

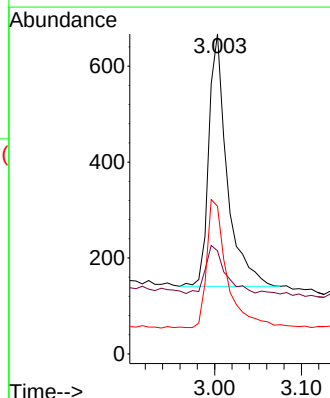
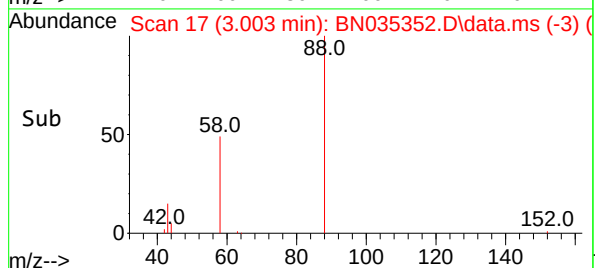
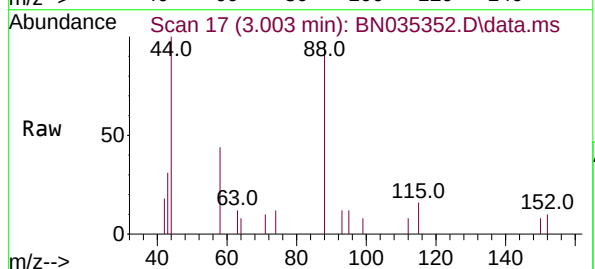
Manual Integrations  
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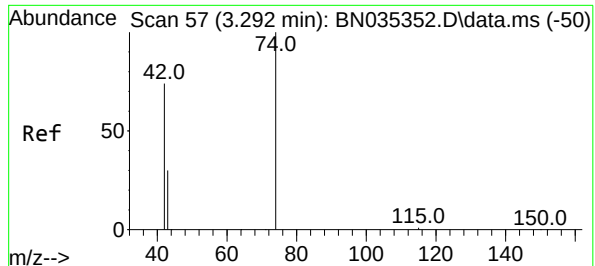
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#2  
1,4-Dioxane  
Concen: 0.414 ng  
RT: 3.003 min Scan# 17  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

Tgt Ion: 88 Resp: 771  
Ion Ratio Lower Upper  
88 100  
43 21.5 17.2 25.8  
58 55.6 44.5 66.7





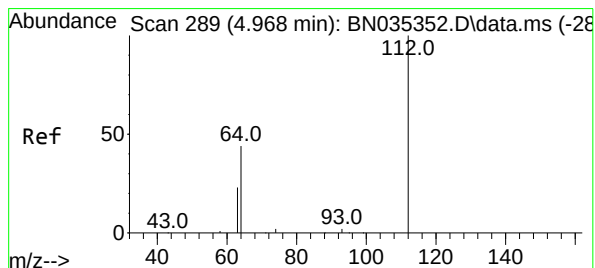
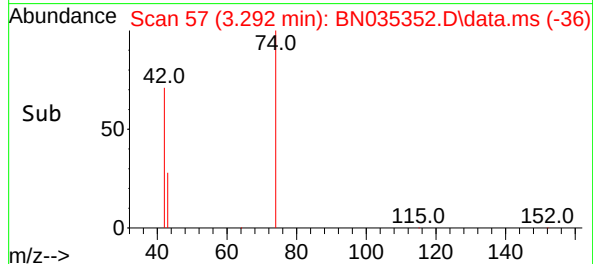
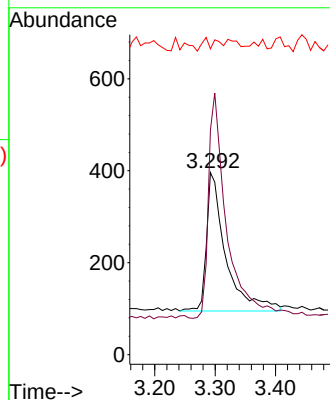
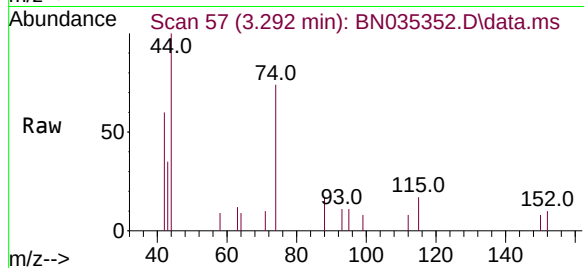
#3  
n-Nitrosodimethylamine  
Concen: 0.385 ng  
RT: 3.292 min Scan# 51  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

Tgt Ion: 42 Resp: 668  
Ion Ratio Lower Upper  
42 100  
74 156.1 124.9 187.3  
44 2.8 2.2 3.4

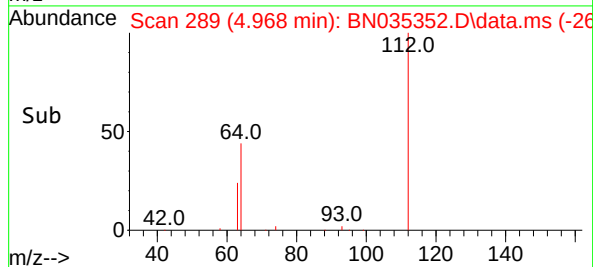
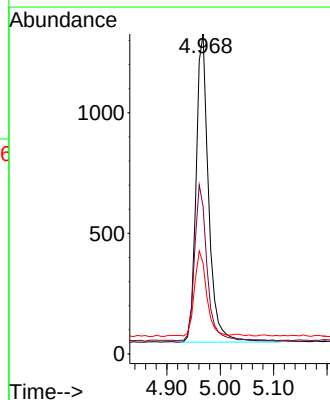
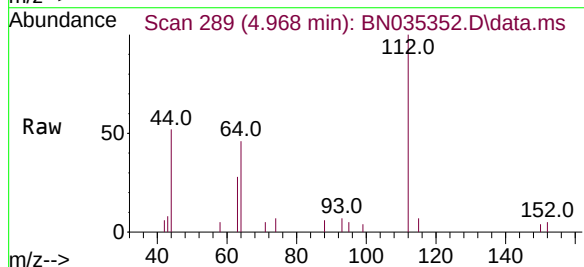
Manual Integrations  
APPROVED

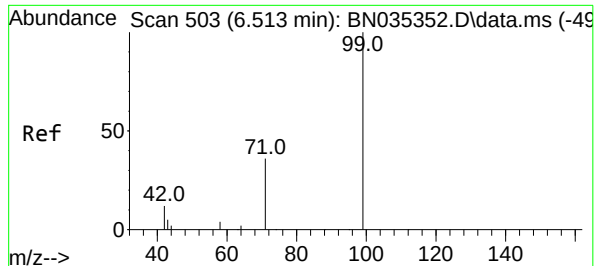
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#4  
2-Fluorophenol  
Concen: 0.401 ng  
RT: 4.968 min Scan# 289  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

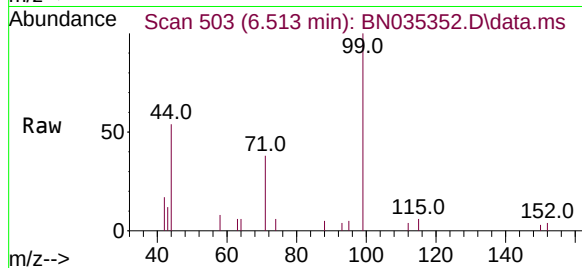
Tgt Ion:112 Resp: 2085  
Ion Ratio Lower Upper  
112 100  
64 49.8 39.8 59.8  
63 26.3 21.0 31.6





#5  
Phenol-d6  
Concen: 0.375 ng  
RT: 6.513 min Scan# 503  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

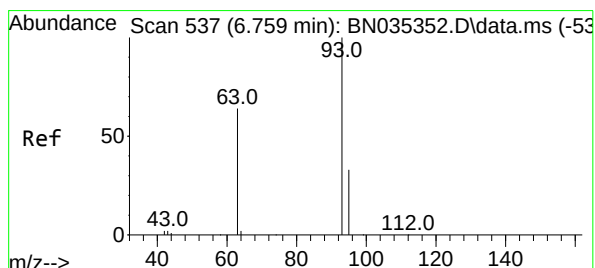
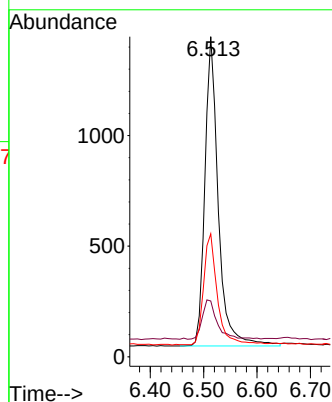
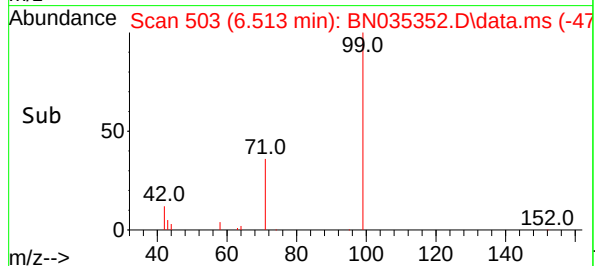
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4



Tgt Ion: 99 Resp: 244  
Ion Ratio Lower Upper  
99 100  
42 14.3 11.4 17.2  
71 36.6 29.3 43.9

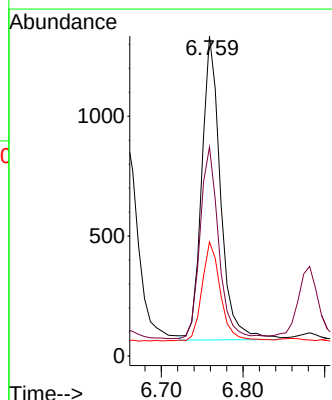
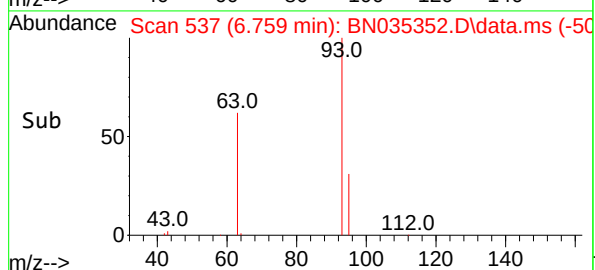
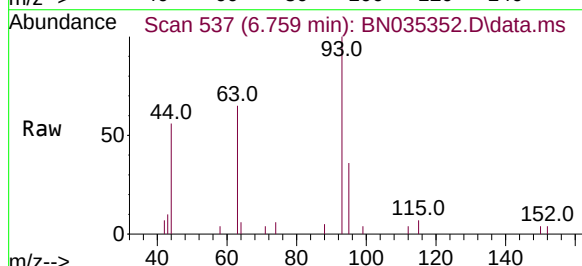
Manual Integrations  
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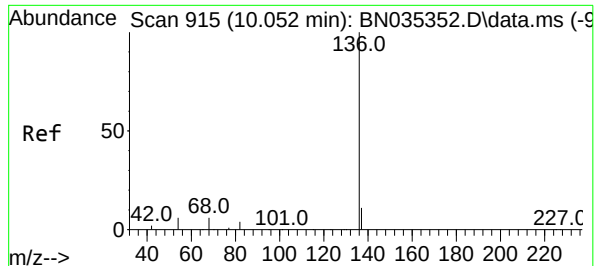
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#6  
bis(2-Chloroethyl)ether  
Concen: 0.415 ng  
RT: 6.759 min Scan# 537  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

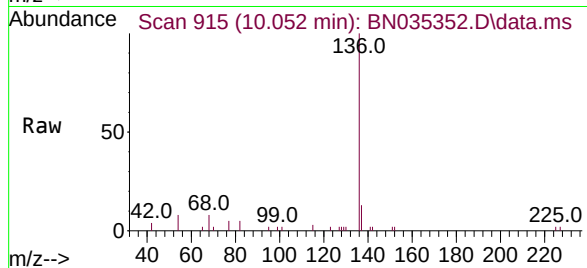
Tgt Ion: 93 Resp: 2032  
Ion Ratio Lower Upper  
93 100  
63 63.0 50.4 75.6  
95 32.1 25.7 38.5





#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.052 min Scan# 915  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

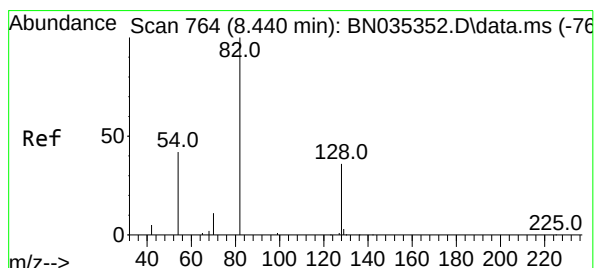
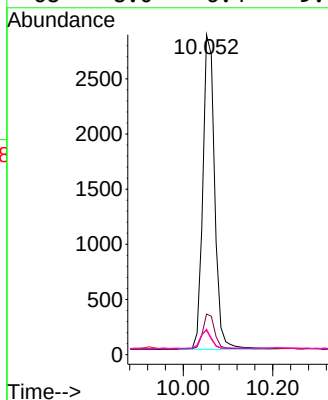
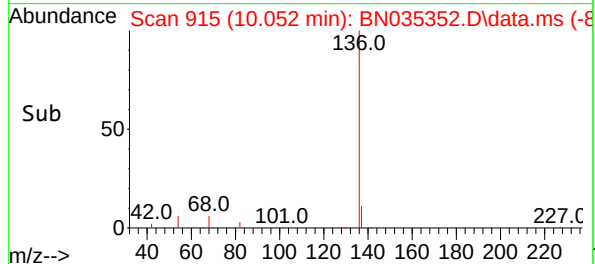
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4



Tgt Ion:136 Resp: 5229  
Ion Ratio Lower Upper  
136 100  
137 12.7 10.2 15.2  
54 7.6 6.1 9.1  
68 8.0 6.4 9.6

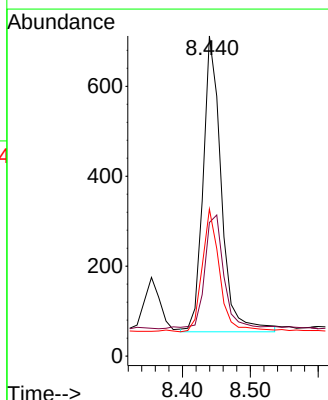
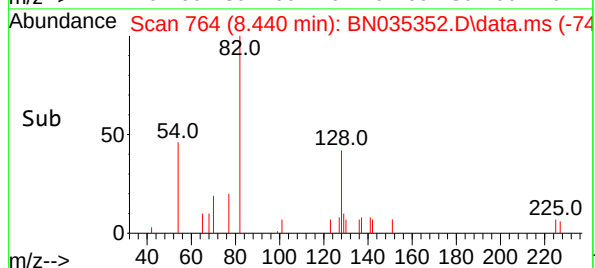
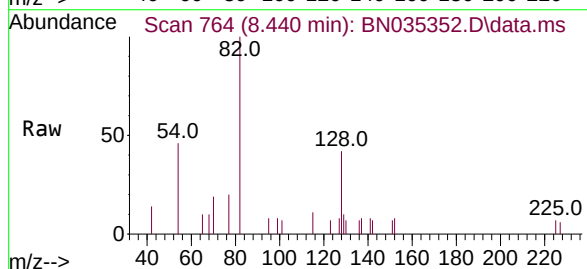
Manual Integrations  
APPROVED

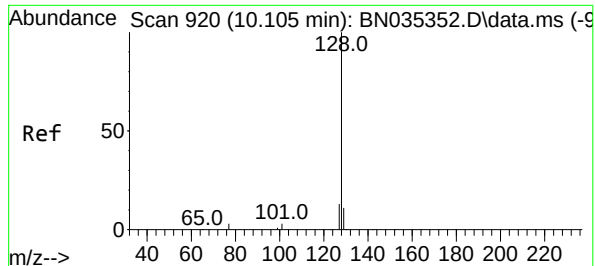
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#8  
Nitrobenzene-d5  
Concen: 0.270 ng m  
RT: 8.440 min Scan# 764  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

Tgt Ion: 82 Resp: 1228  
Ion Ratio Lower Upper  
82 100  
128 41.7 33.4 50.0  
54 45.9 36.7 55.1





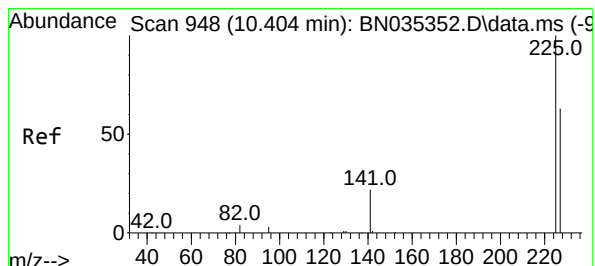
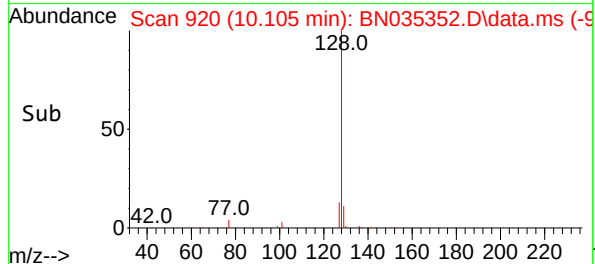
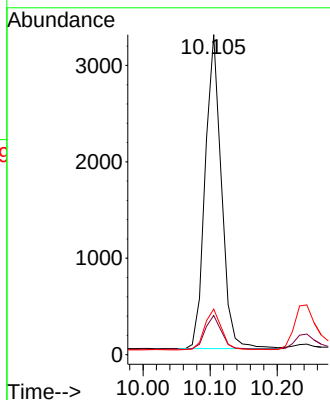
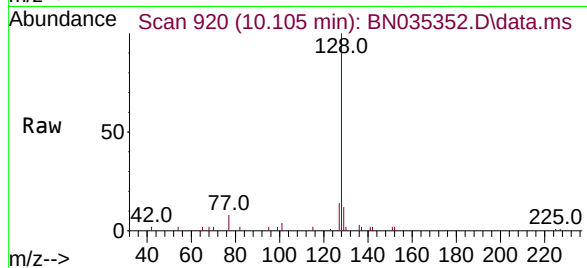
#9  
Naphthalene  
Concen: 0.401 ng  
RT: 10.105 min Scan# 911  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

Tgt Ion:128 Resp: 547  
Ion Ratio Lower Upper  
128 100  
129 12.2 9.8 14.6  
127 14.3 11.4 17.2

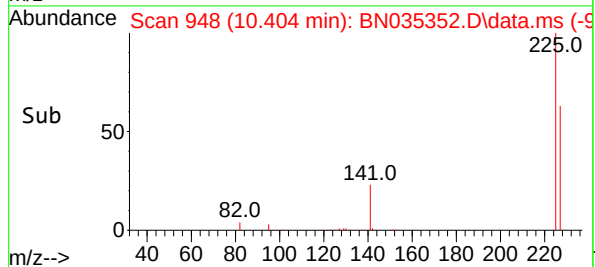
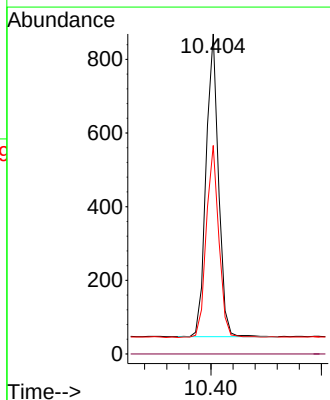
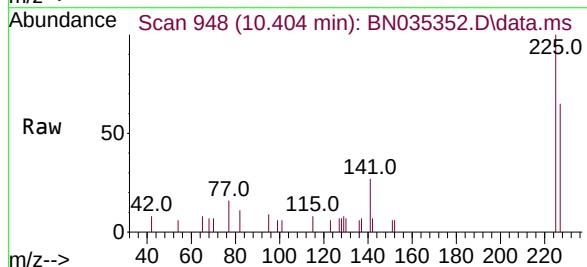
Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024

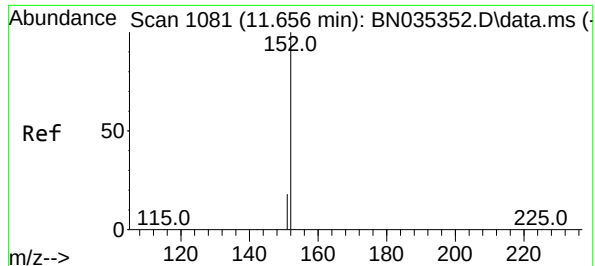


#10  
Hexachlorobutadiene  
Concen: 0.323 ng  
RT: 10.404 min Scan# 948  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

Tgt Ion:225 Resp: 1292  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 64.1 51.3 76.9







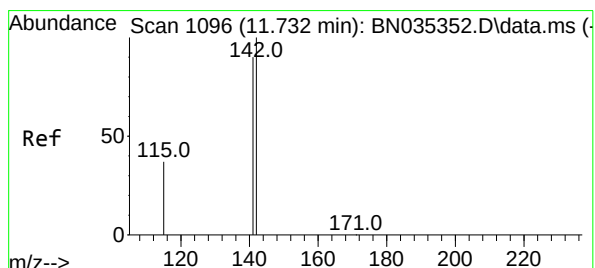
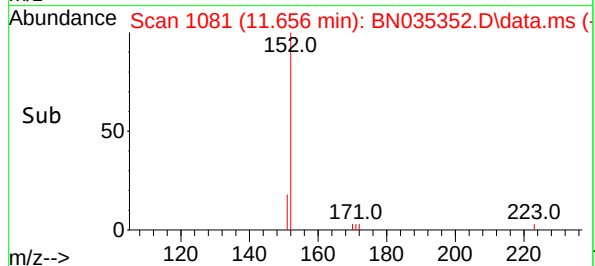
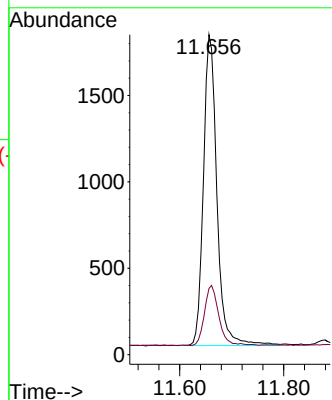
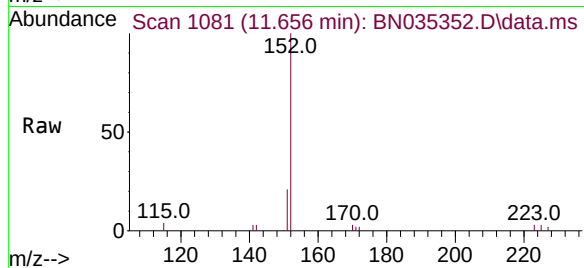
#11  
2-Methylnaphthalene-d10  
Concen: 0.347 ng  
RT: 11.656 min Scan# 1081  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

Tgt Ion:152 Resp: 323  
Ion Ratio Lower Upper  
152 100  
151 20.8 16.6 25.0

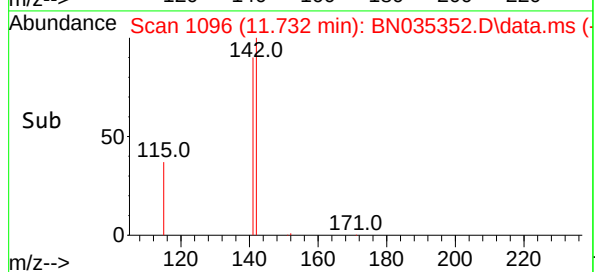
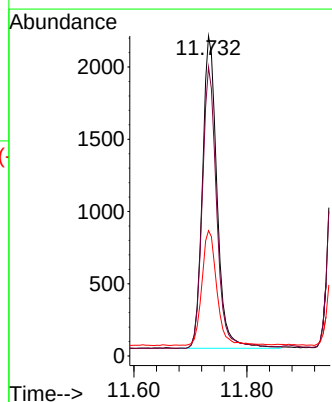
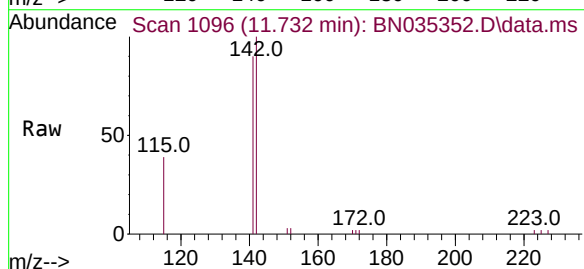
Manual Integrations  
APPROVED

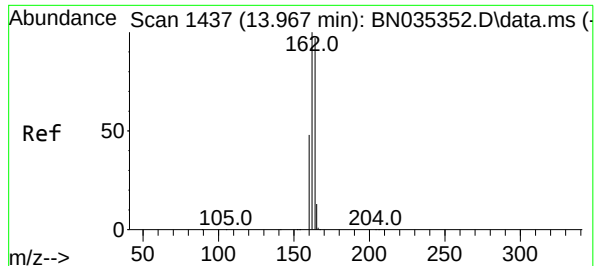
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#12  
2-Methylnaphthalene  
Concen: 0.384 ng  
RT: 11.732 min Scan# 1096  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

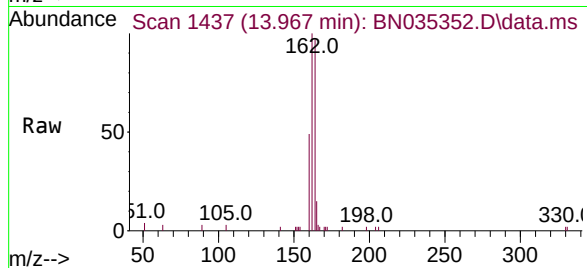
Tgt Ion:142 Resp: 3867  
Ion Ratio Lower Upper  
142 100  
141 90.3 72.2 108.4  
115 39.2 31.4 47.0





#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.967 min Scan# 1437  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

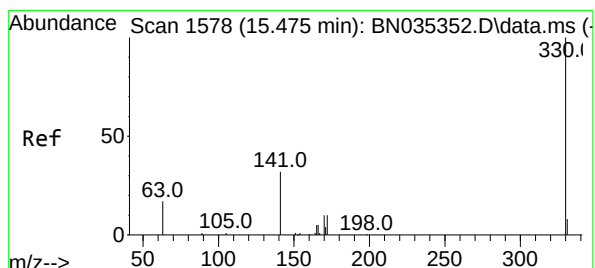
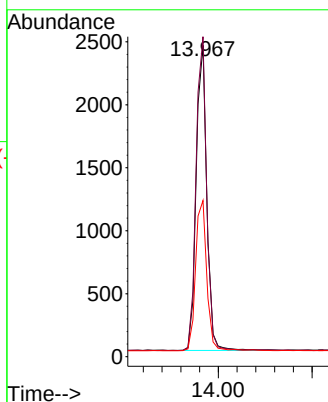
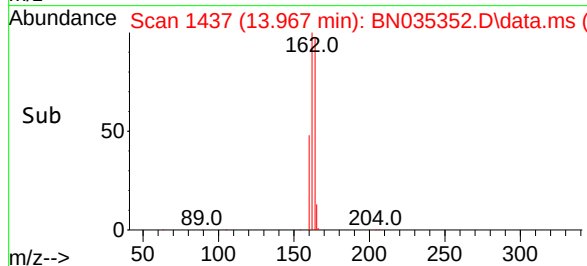
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4



Tgt Ion:164 Resp: 3799  
Ion Ratio Lower Upper  
164 100  
162 102.7 82.2 123.2  
160 50.1 40.1 60.1

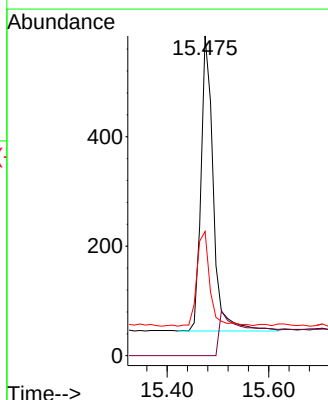
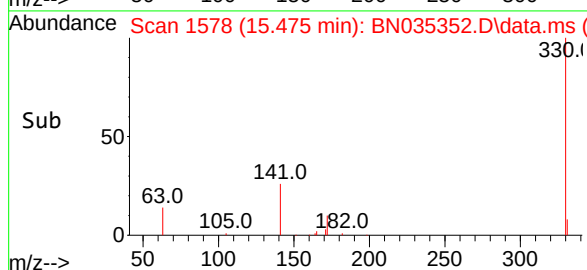
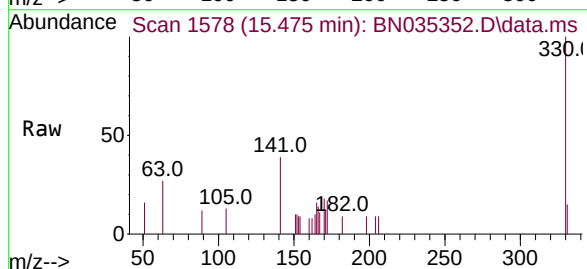
Manual Integrations  
APPROVED

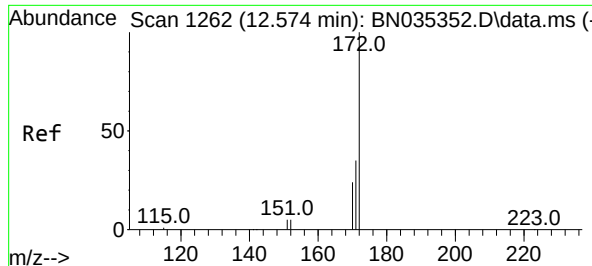
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#14  
2,4,6-Tribromophenol  
Concen: 0.356 ng  
RT: 15.475 min Scan# 1578  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

Tgt Ion:330 Resp: 975  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 33.3 26.6 40.0





#15  
2-Fluorobiphenyl  
Concen: 0.372 ng  
RT: 12.574 min Scan# 1262  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

Instrument :

BNA\_N

ClientSampleId :

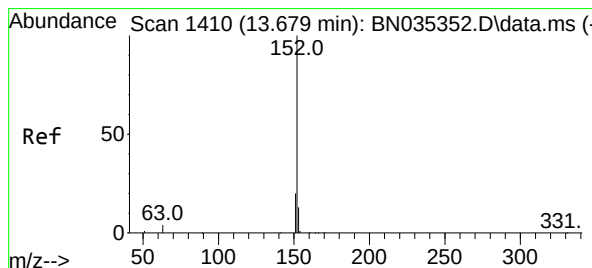
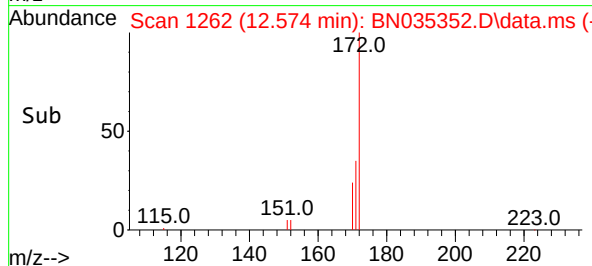
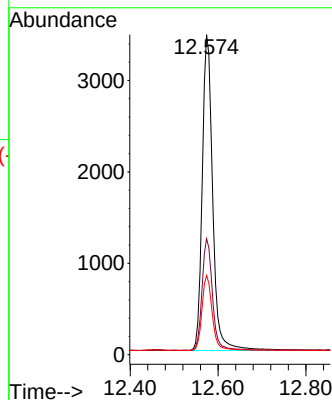
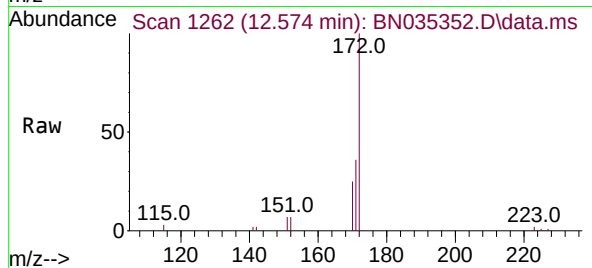
SSTDICCC0.4

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.2  | 29.0  | 43.4  |
| 170     | 24.8  | 19.8  | 29.8  |

Manual Integrations

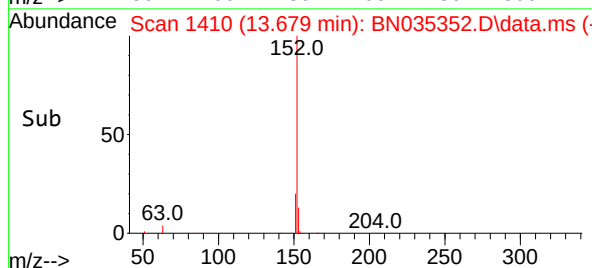
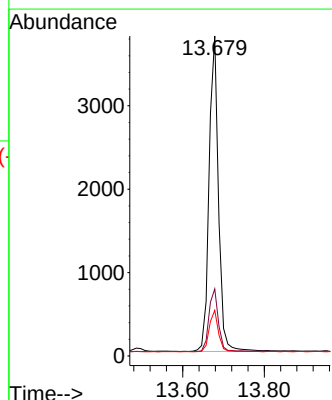
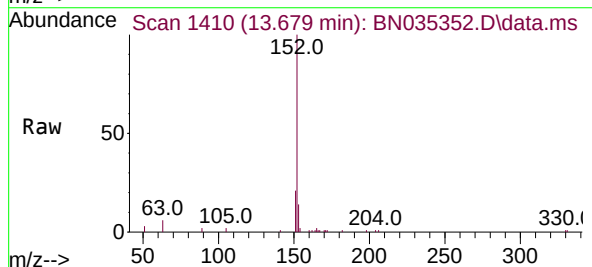
APPROVED

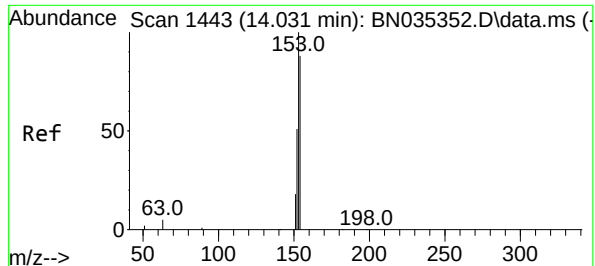
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#16  
Acenaphthylene  
Concen: 0.373 ng  
RT: 13.679 min Scan# 1410  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

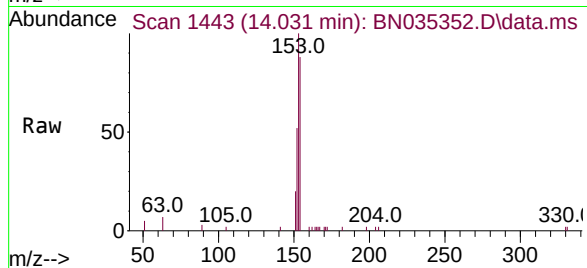
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 20.2  | 16.2  | 24.2  |
| 153     | 13.0  | 10.4  | 15.6  |





#17  
Acenaphthene  
Concen: 0.388 ng  
RT: 14.031 min Scan# 1443  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

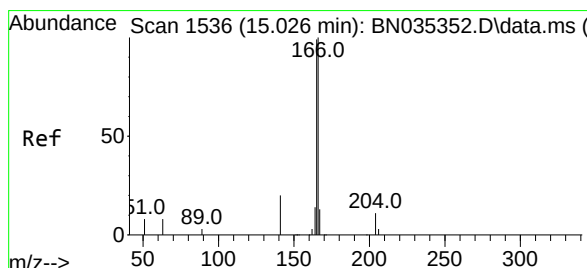
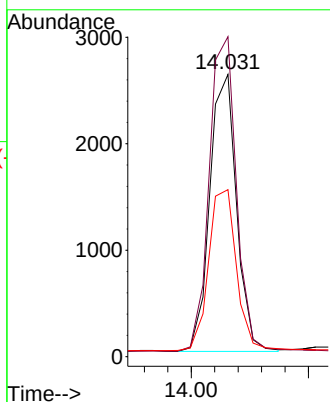
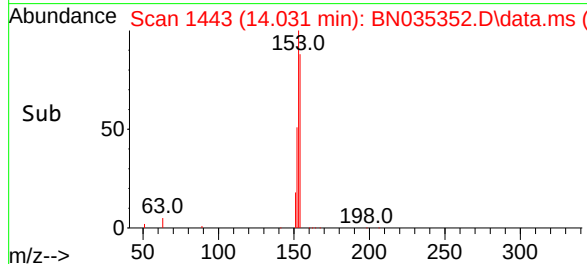
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4



Tgt Ion:154 Resp: 4125  
Ion Ratio Lower Upper  
154 100  
153 115.8 92.6 139.0  
152 61.3 49.0 73.6

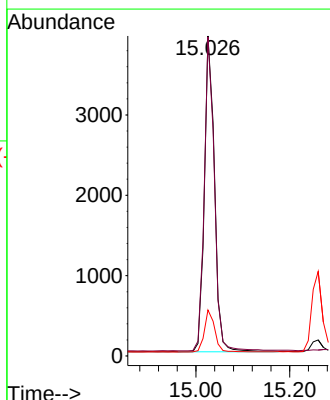
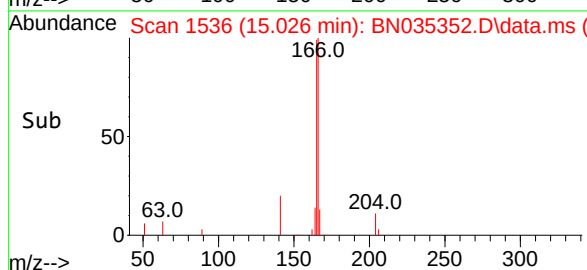
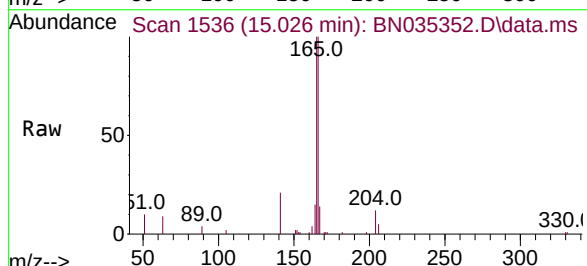
Manual Integrations  
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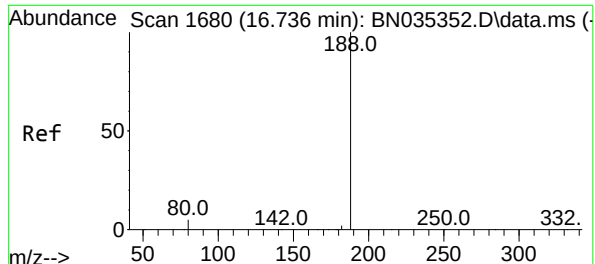
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#18  
Fluorene  
Concen: 0.375 ng  
RT: 15.026 min Scan# 1536  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

Tgt Ion:166 Resp: 5863  
Ion Ratio Lower Upper  
166 100  
165 99.6 79.7 119.5  
167 13.5 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.736 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

Tgt Ion:188 Resp: 9490

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

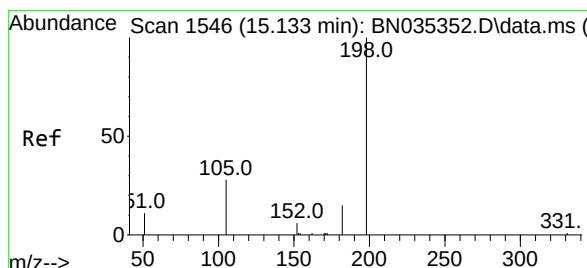
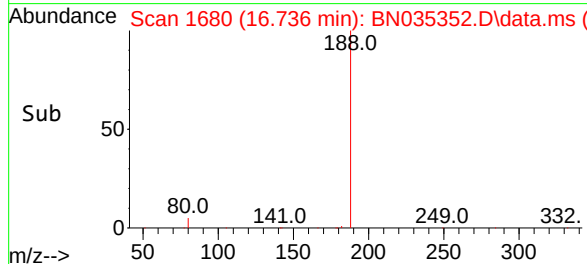
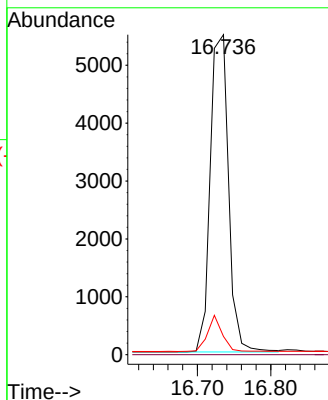
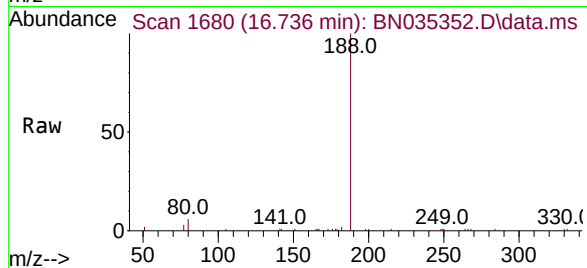
80 5.7 4.6 6.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 0.171 ng

RT: 15.133 min Scan# 1546

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

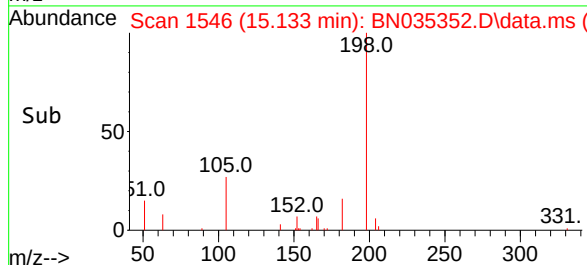
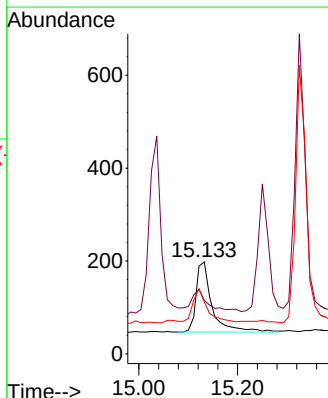
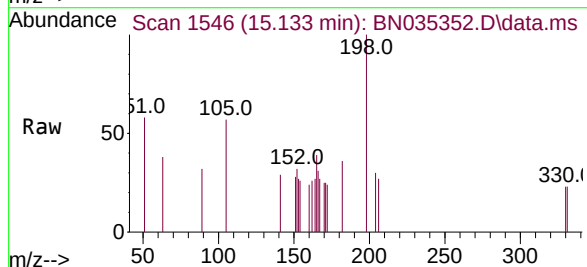
Tgt Ion:198 Resp: 337

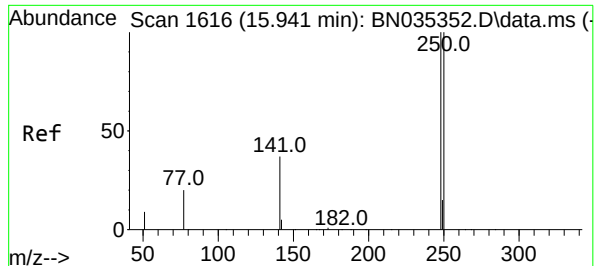
Ion Ratio Lower Upper

198 100

51 58.1 46.5 69.7

105 56.6 45.3 67.9





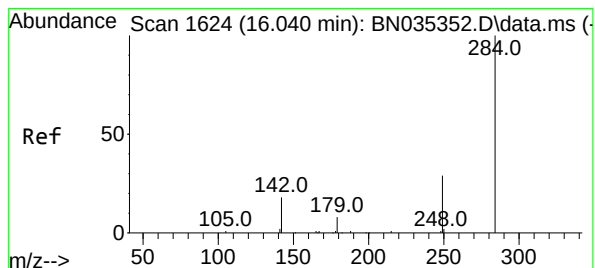
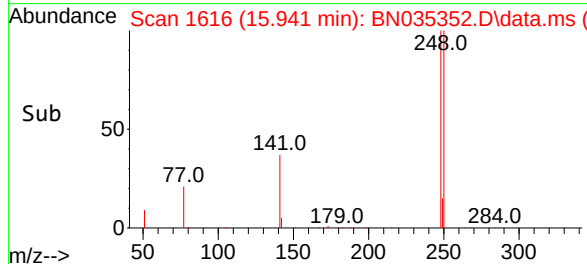
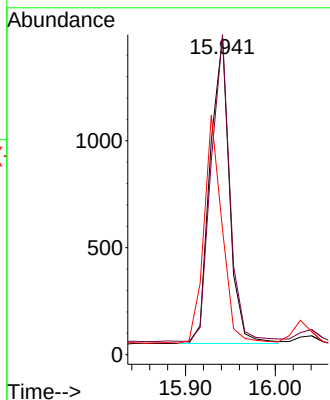
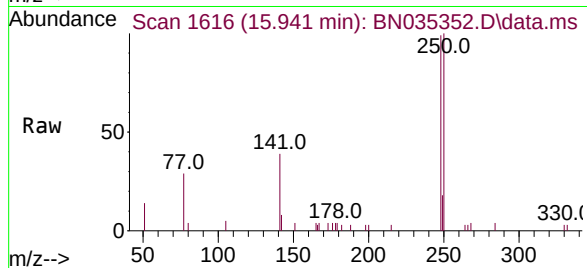
#21  
4-Bromophenyl-phenylether  
Concen: 0.355 ng  
RT: 15.941 min Scan# 1616  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

Tgt Ion:248 Resp: 2140  
Ion Ratio Lower Upper  
248 100  
250 100.7 80.6 120.8  
141 39.4 31.5 47.3

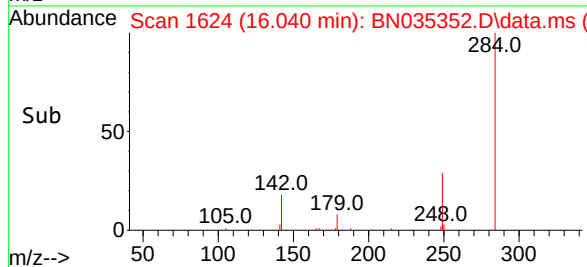
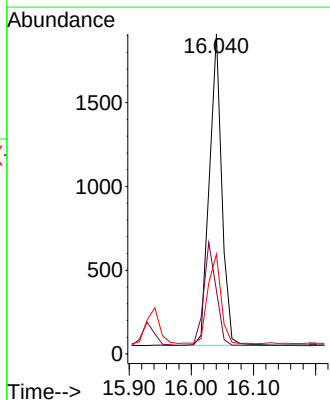
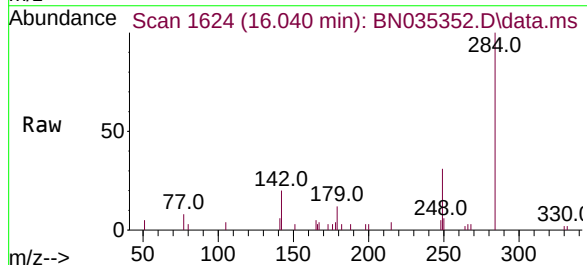
Manual Integrations  
APPROVED

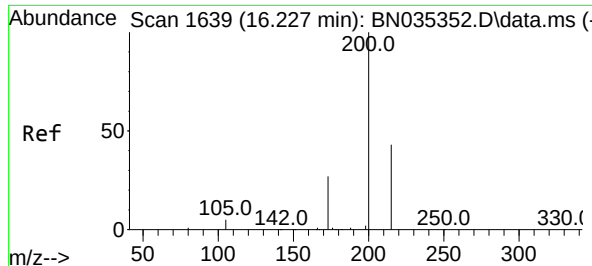
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#22  
Hexachlorobenzene  
Concen: 0.413 ng  
RT: 16.040 min Scan# 1624  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

Tgt Ion:284 Resp: 2590  
Ion Ratio Lower Upper  
284 100  
142 33.4 26.7 40.1  
249 30.7 24.6 36.8





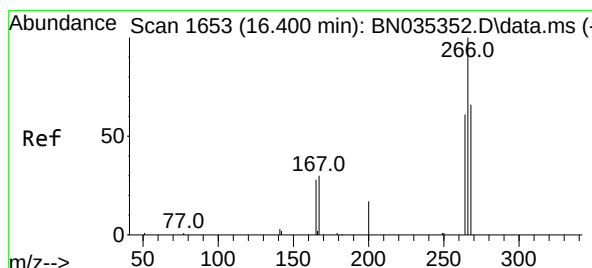
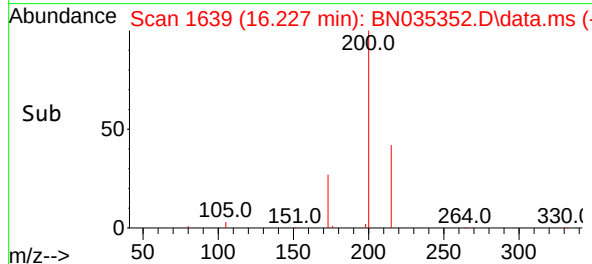
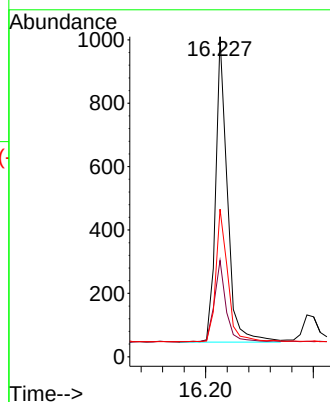
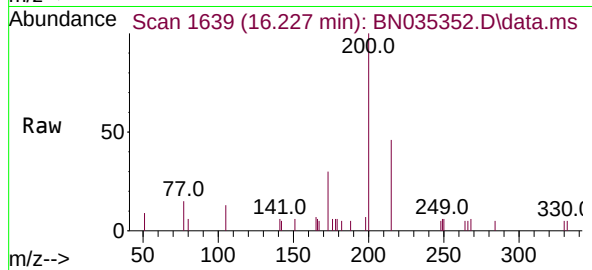
#23  
Atrazine  
Concen: 0.269 ng  
RT: 16.227 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

Tgt Ion:200 Resp: 146  
Ion Ratio Lower Upper  
200 100  
173 30.1 24.1 36.1  
215 46.1 36.9 55.3

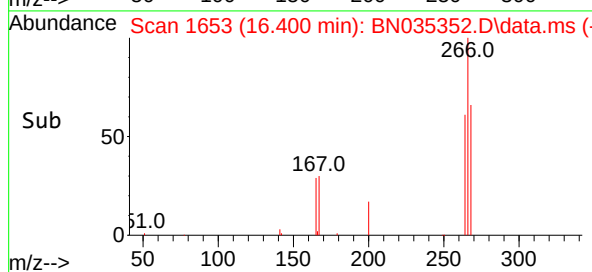
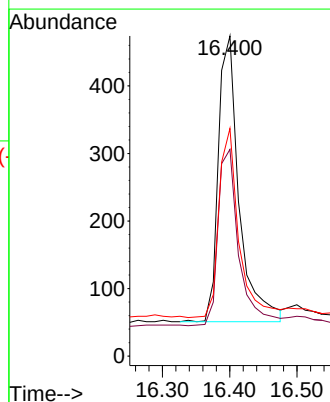
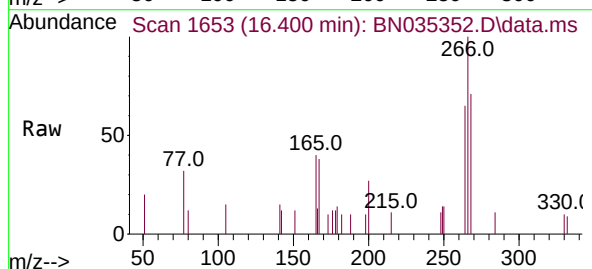
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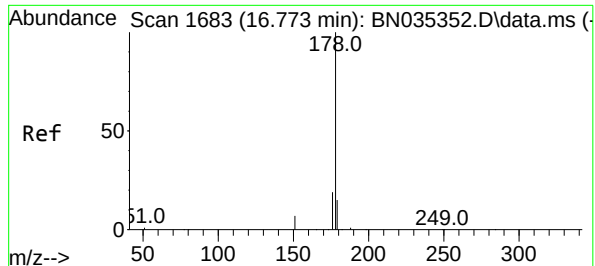
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#24  
Pentachlorophenol  
Concen: 0.309 ng  
RT: 16.400 min Scan# 1653  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

Tgt Ion:266 Resp: 906  
Ion Ratio Lower Upper  
266 100  
264 62.4 42.3 63.5  
268 63.8 43.3 64.9





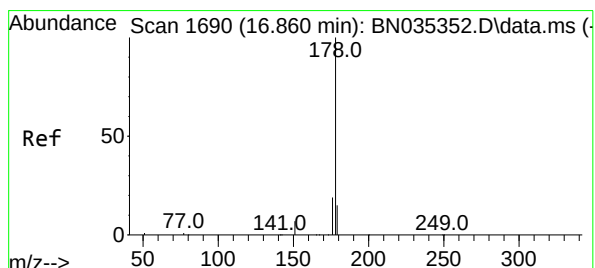
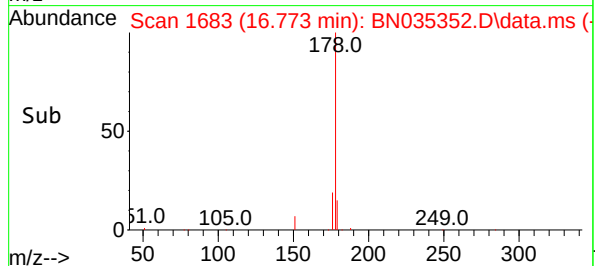
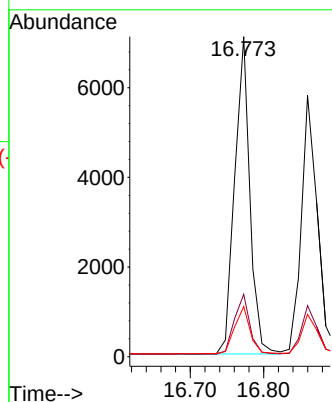
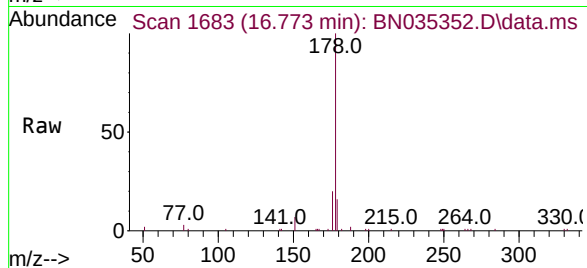
#25  
Phenanthrene  
Concen: 0.405 ng  
RT: 16.773 min Scan# 1683  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

Tgt Ion:178 Resp: 1012  
Ion Ratio Lower Upper  
178 100  
176 19.3 15.4 23.2  
179 15.4 12.3 18.5

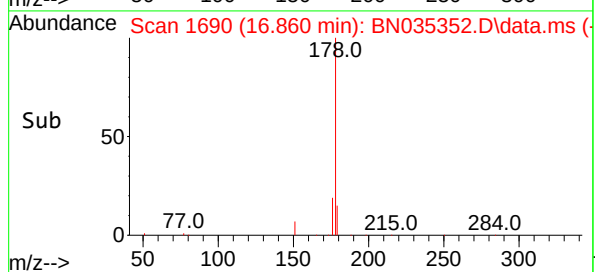
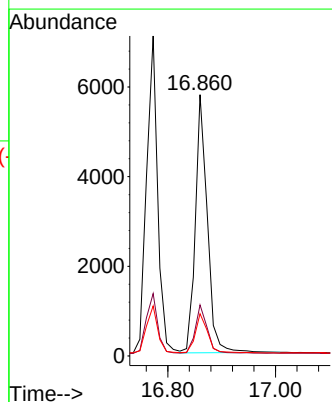
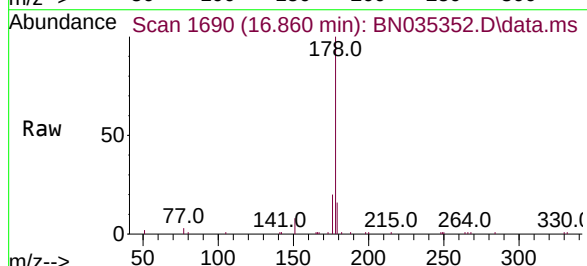
Manual Integrations  
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Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024

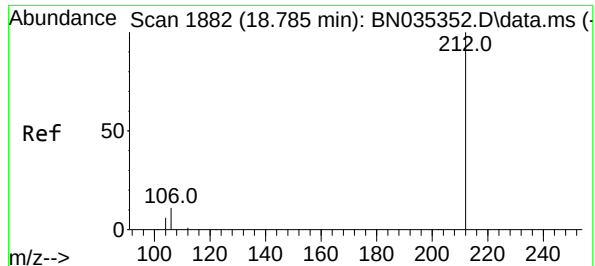


#26  
Anthracene  
Concen: 0.389 ng  
RT: 16.860 min Scan# 1690  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

Tgt Ion:178 Resp: 8921  
Ion Ratio Lower Upper  
178 100  
176 18.8 15.0 22.6  
179 15.7 12.6 18.8







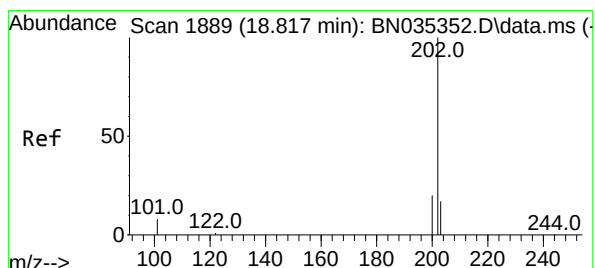
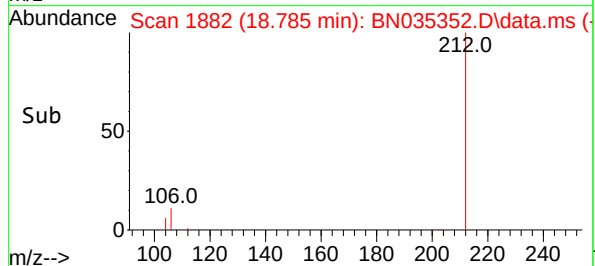
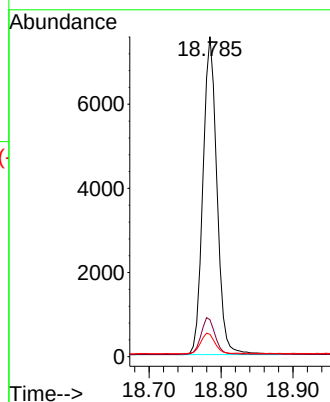
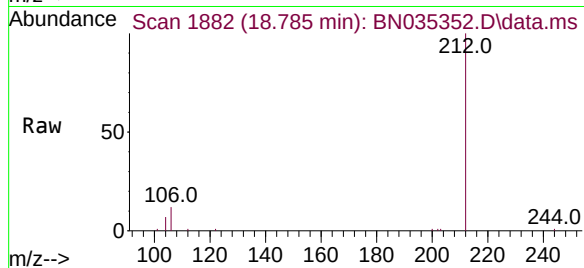
#27  
Fluoranthene-d10  
Concen: 0.352 ng  
RT: 18.785 min Scan# 1882  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

Tgt Ion:212 Resp: 1022  
Ion Ratio Lower Upper  
212 100  
106 11.5 9.2 13.8  
104 6.6 5.3 7.9

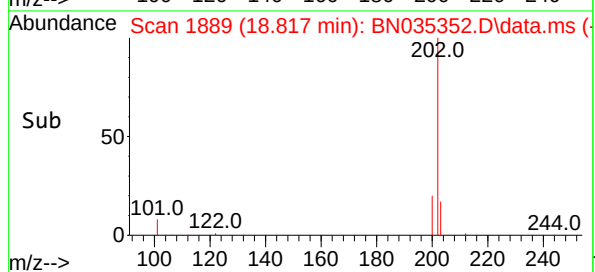
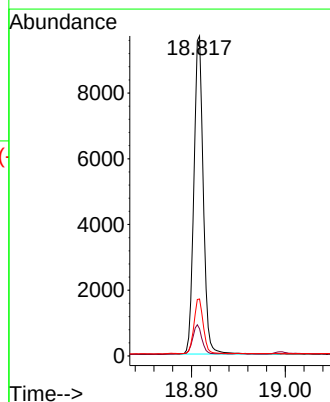
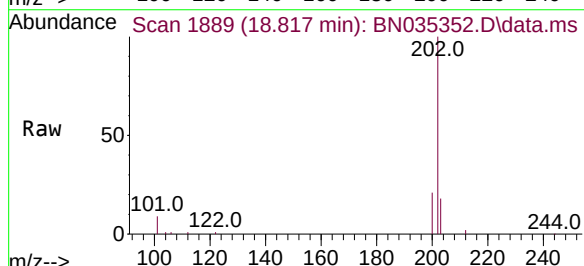
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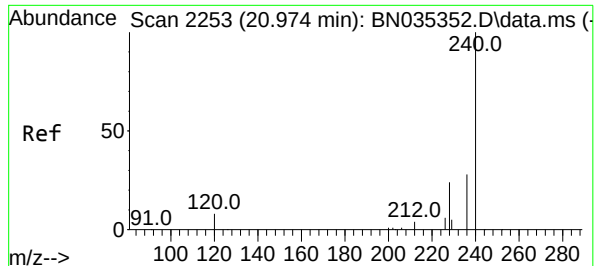
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#28  
Fluoranthene  
Concen: 0.391 ng  
RT: 18.817 min Scan# 1889  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

Tgt Ion:202 Resp: 13438  
Ion Ratio Lower Upper  
202 100  
101 9.2 7.4 11.0  
203 17.1 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.974 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

Instrument :

BNA\_N

ClientSampleId :

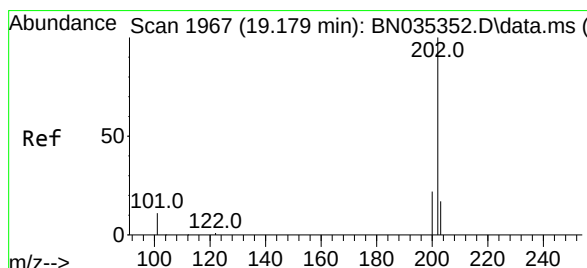
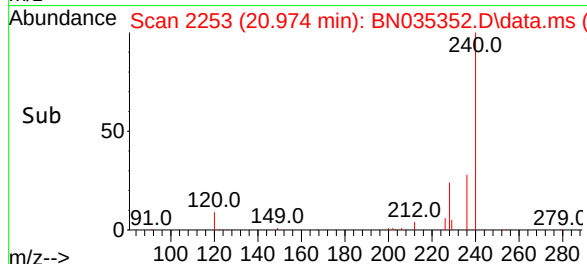
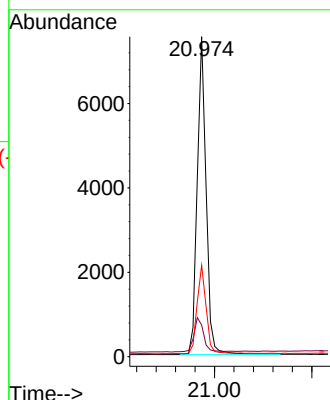
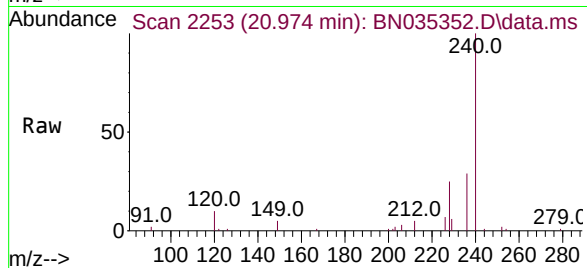
SSTDICCC0.4

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 240   | Resp: | 952  |
| Ion Ratio | Lower | Upper |      |
| 240       | 100   |       |      |
| 120       | 9.9   | 7.9   | 11.9 |
| 236       | 28.6  | 22.9  | 34.3 |

Manual Integrations

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Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#30

Pyrene

Concen: 0.443 ng

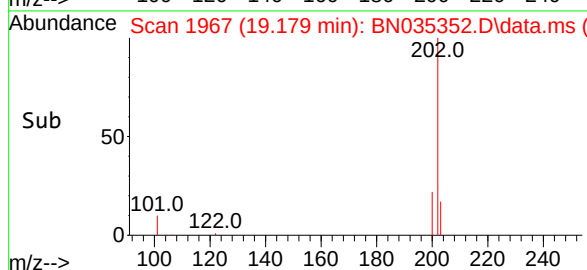
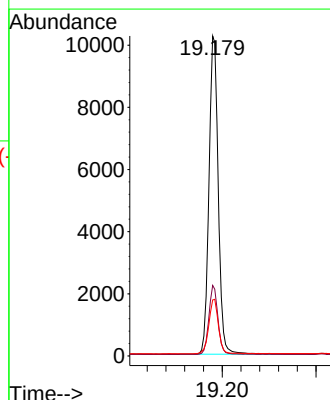
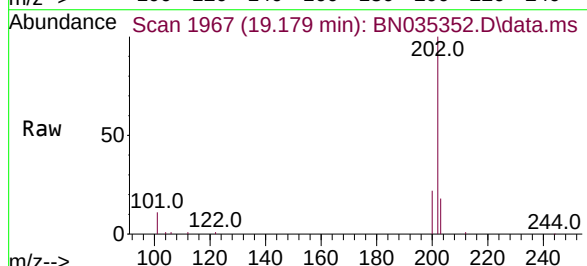
RT: 19.179 min Scan# 1967

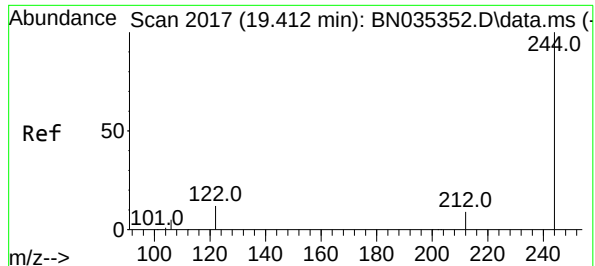
Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 14053 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 200       | 21.2  | 17.0  | 25.4  |
| 203       | 17.9  | 14.3  | 21.5  |





#31  
Terphenyl-d14  
Concen: 0.377 ng  
RT: 19.412 min Scan# 2017  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

Instrument :

BNA\_N

ClientSampleId :

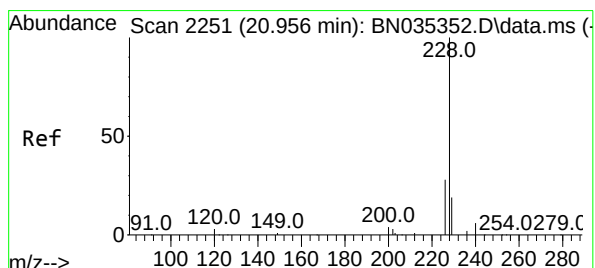
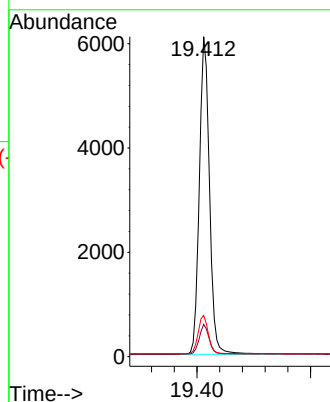
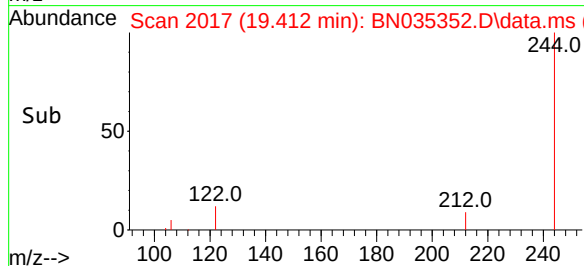
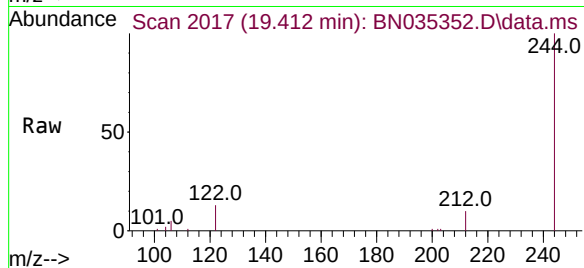
SSTDICCC0.4

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 10.1  | 8.1   | 12.1  |
| 122     | 12.9  | 10.3  | 15.5  |

Manual Integrations

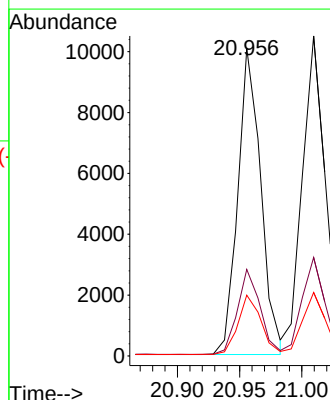
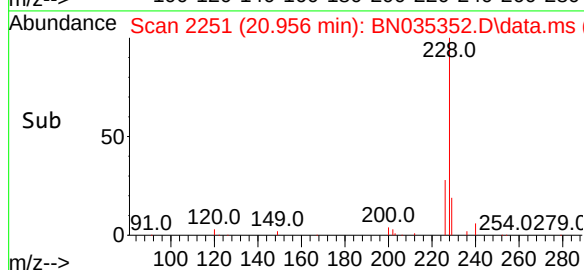
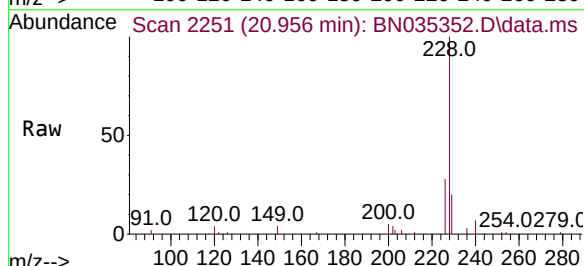
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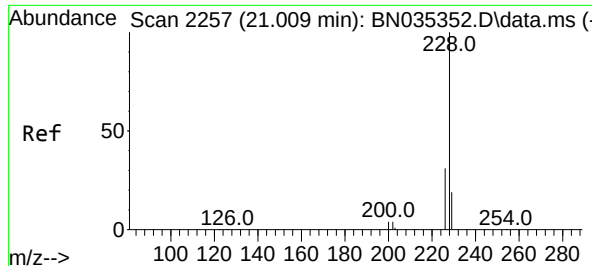
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#32  
Benzo(a)anthracene  
Concen: 0.389 ng  
RT: 20.956 min Scan# 2251  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 28.1  | 22.5  | 33.7  |
| 229     | 19.8  | 15.8  | 23.8  |





#33

Chrysene

Concen: 0.418 ng

RT: 21.009 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

Tgt Ion:228 Resp: 13729

Ion Ratio Lower Upper

228 100

226 30.8 24.6 37.0

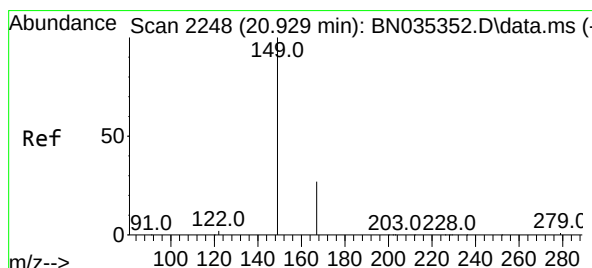
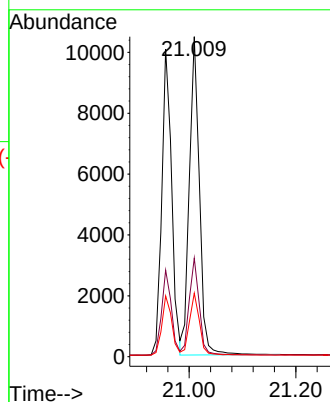
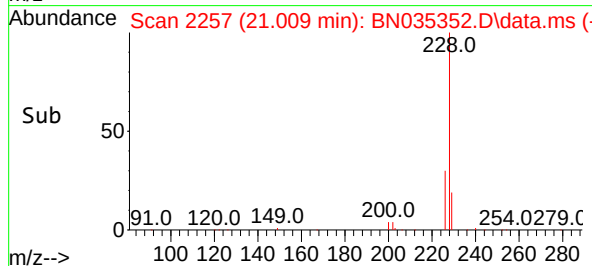
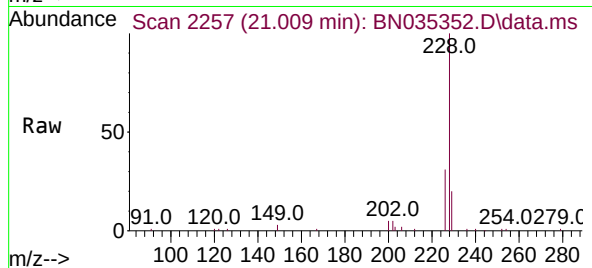
229 19.9 15.9 23.9

Manual Integrations

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Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.282 ng

RT: 20.929 min Scan# 2248

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

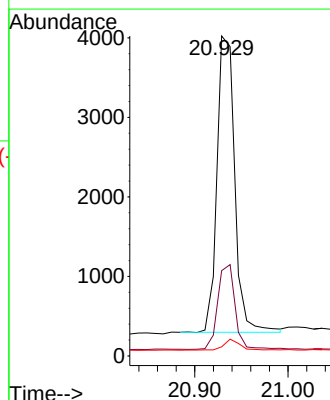
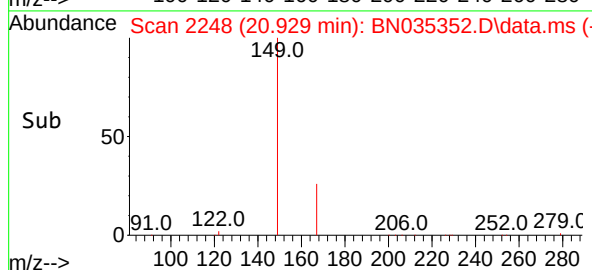
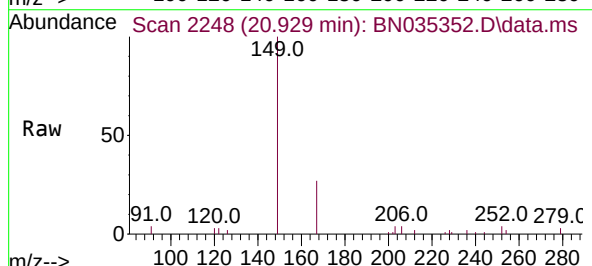
Tgt Ion:149 Resp: 4912

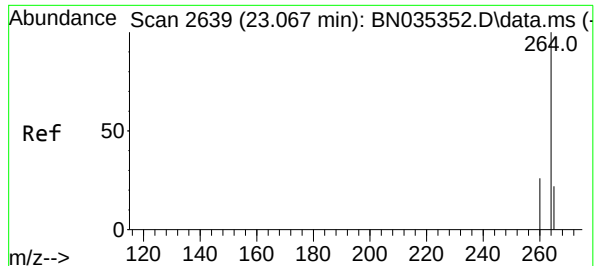
Ion Ratio Lower Upper

149 100

167 27.8 22.2 33.4

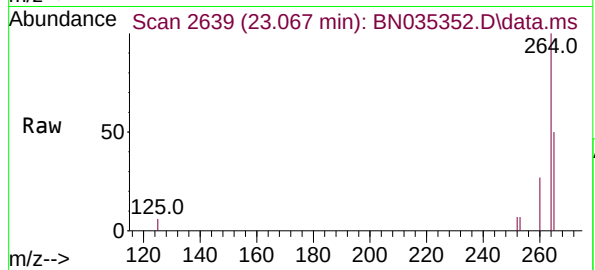
279 3.4 2.7 4.1





#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.067 min Scan# 2639  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

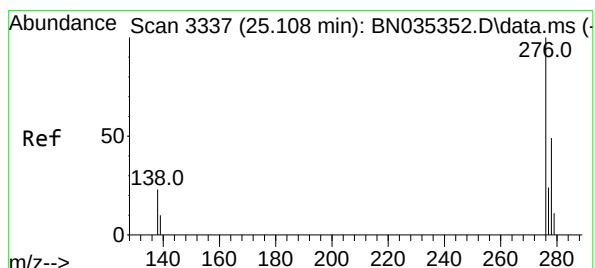
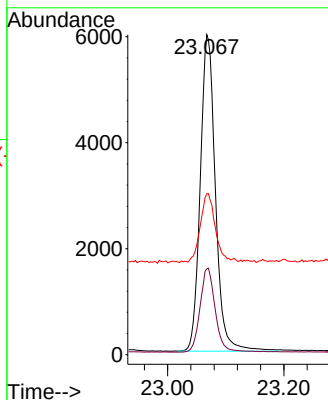
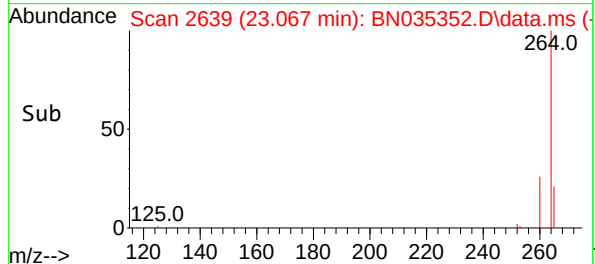
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4



Tgt Ion:264 Resp: 1084  
Ion Ratio Lower Upper  
264 100  
260 26.8 21.4 32.2  
265 50.3 40.2 60.4

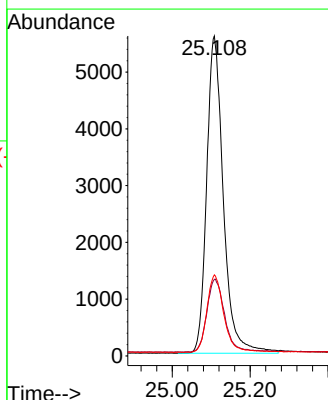
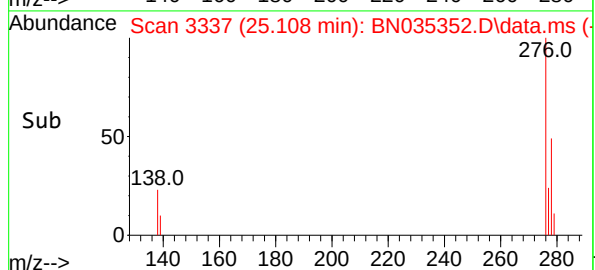
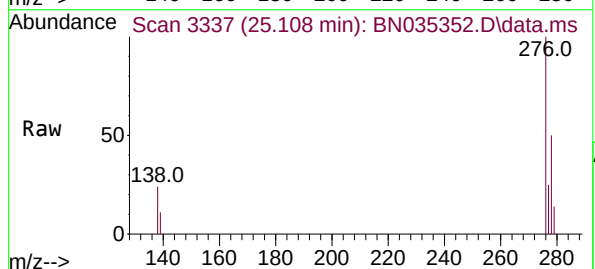
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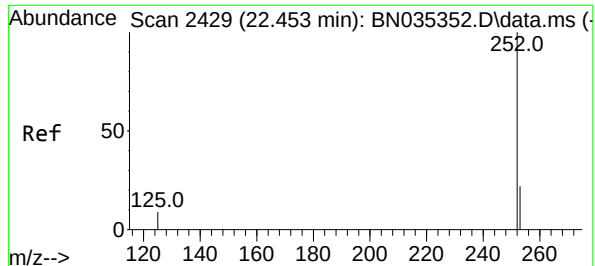
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.384 ng  
RT: 25.108 min Scan# 3337  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

Tgt Ion:276 Resp: 16615  
Ion Ratio Lower Upper  
276 100  
138 24.2 19.4 29.0  
277 24.7 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.390 ng

RT: 22.453 min Scan# 2429

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

Tgt Ion:252 Resp: 14235

Ion Ratio Lower Upper

252 100

253 24.5 19.6 29.4

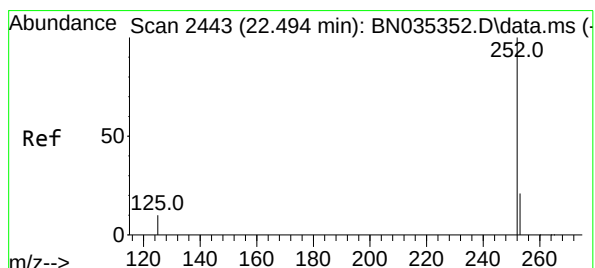
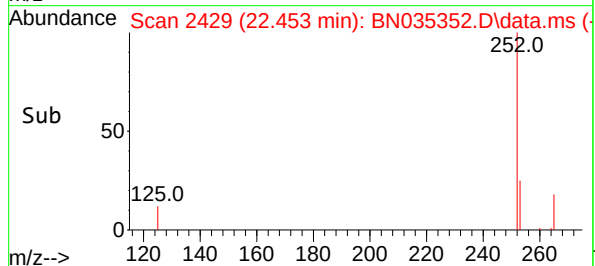
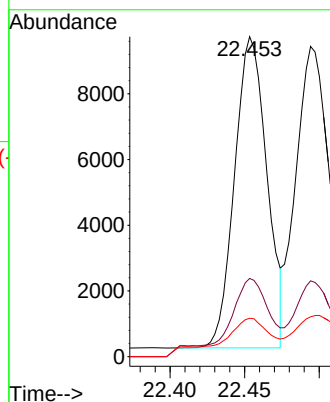
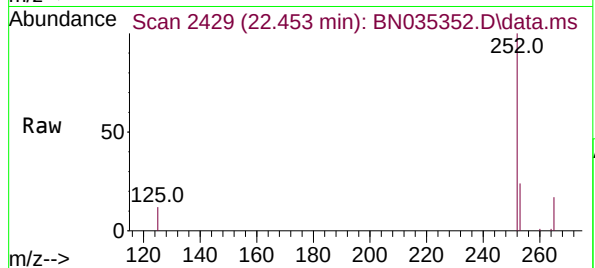
125 12.0 9.6 14.4

Manual Integrations

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Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024



#38

Benzo(k)fluoranthene

Concen: 0.416 ng

RT: 22.494 min Scan# 2443

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

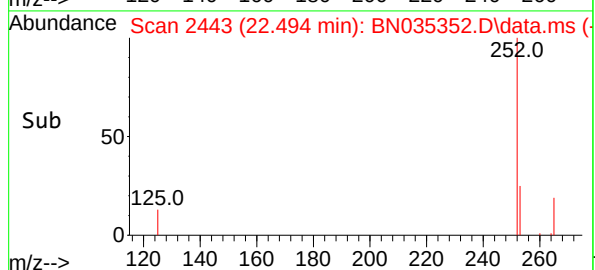
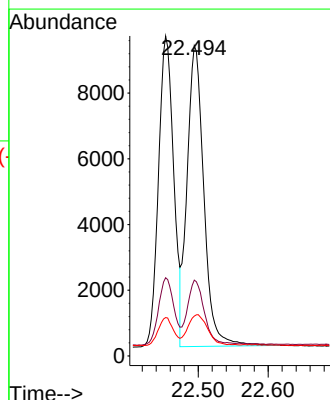
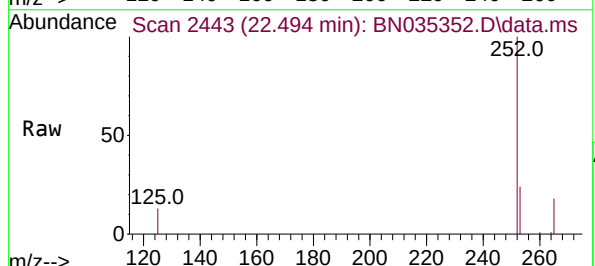
Tgt Ion:252 Resp: 15199

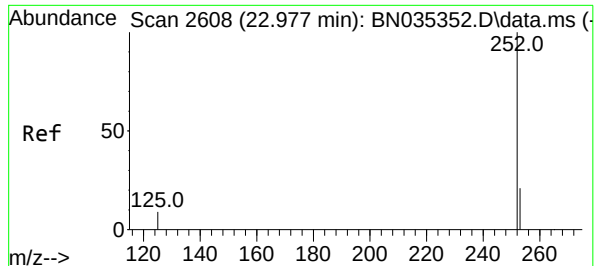
Ion Ratio Lower Upper

252 100

253 24.4 19.5 29.3

125 12.8 10.2 15.4





#39

Benzo(a)pyrene

Concen: 0.387 ng

RT: 22.977 min Scan# 2608

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

Instrument :

BNA\_N

ClientSampleId :

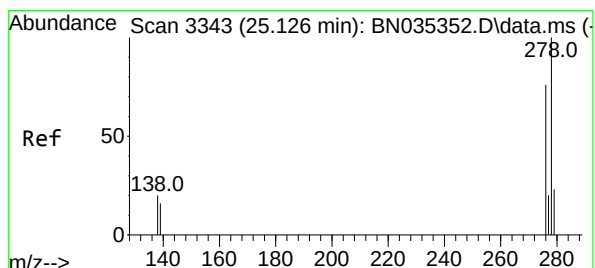
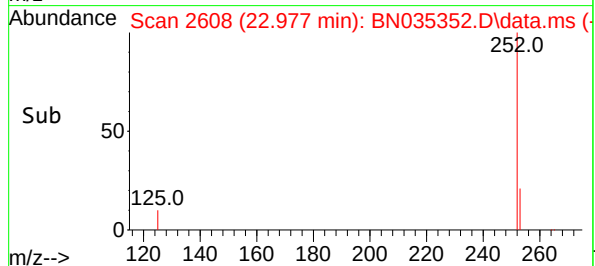
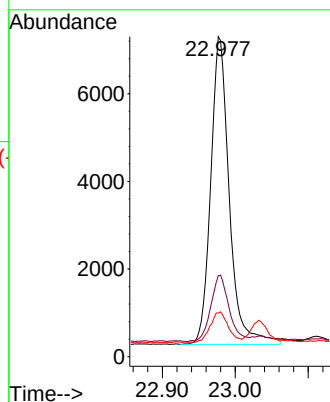
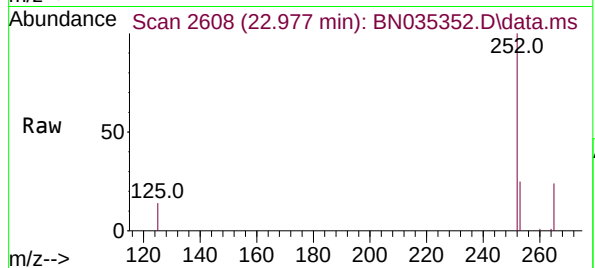
SSTDICCC0.4

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 12425 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 25.3  | 20.2  | 30.4  |
| 125       | 13.6  | 10.9  | 16.3  |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.378 ng

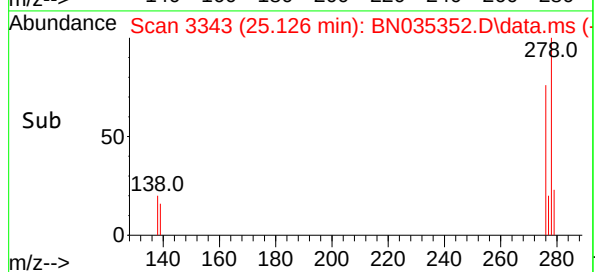
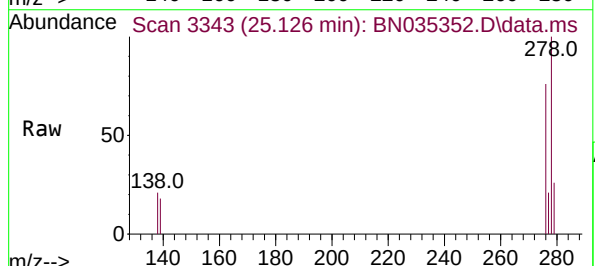
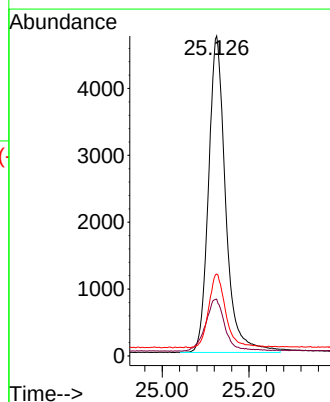
RT: 25.126 min Scan# 3343

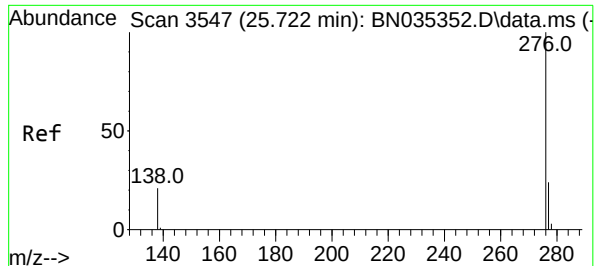
Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 278   | Resp: | 12948 |
| Ion Ratio | Lower | Upper |       |
| 278       | 100   |       |       |
| 139       | 17.8  | 14.2  | 21.4  |
| 279       | 25.6  | 20.5  | 30.7  |





#41

Benzo(g,h,i)perylene

Concen: 0.371 ng

RT: 25.722 min Scan# 3547

Delta R.T. 0.000 min

Lab File: BN035352.D

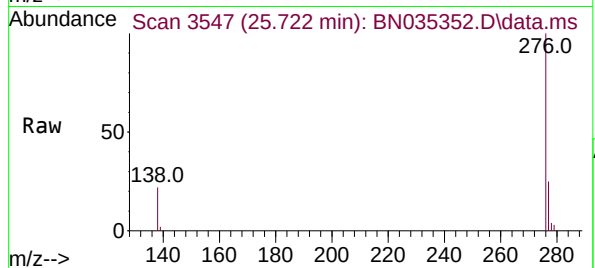
Acq: 27 Nov 2024 16:46

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4



Tgt Ion:276 Resp: 13529

Ion Ratio Lower Upper

276 100

277 24.9 19.9 29.9

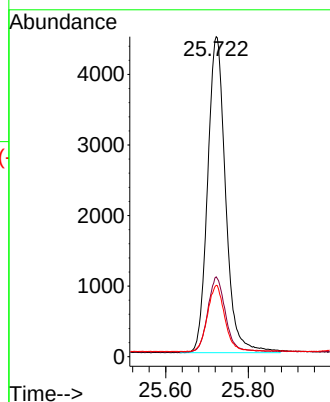
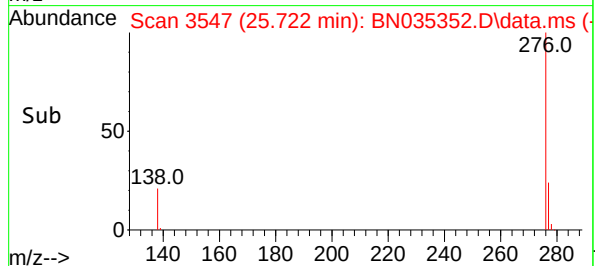
138 22.3 17.8 26.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024





Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112724\  
 Data File : BN035353.D  
 Acq On : 27 Nov 2024 17:21  
 Operator : RC/JU  
 Sample : SSTDICC0.8  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC0.8

Quant Time: Nov 27 22:53:10 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Nov 27 22:48:24 2024  
 Response via : Initial Calibration

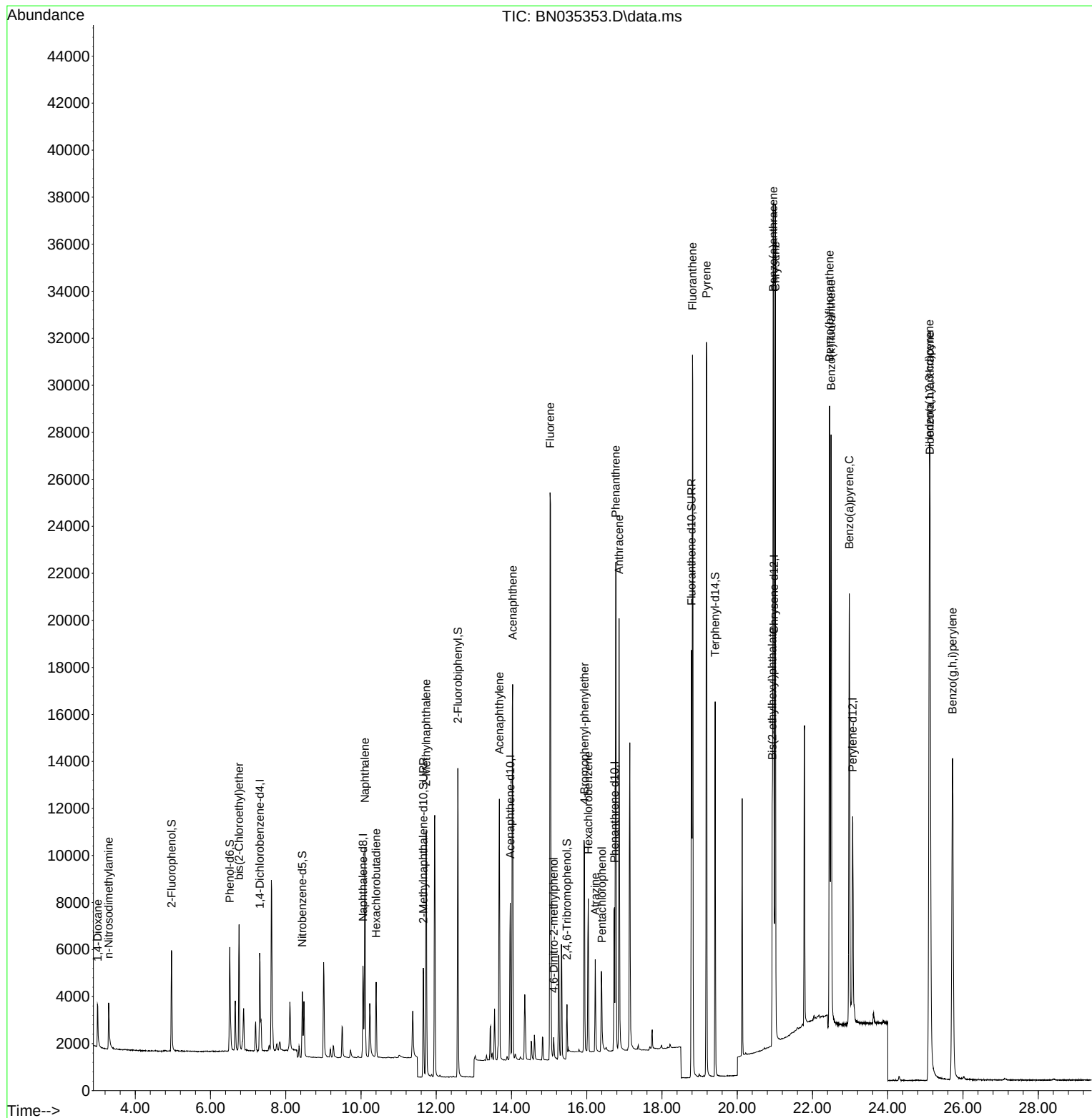
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.308  | 152  | 2047     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.052 | 136  | 5308     | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 13.967 | 164  | 3823     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 16.736 | 188  | 9525     | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 20.974 | 240  | 9837     | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.067 | 264  | 10698    | 0.400 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 4.968  | 112  | 3924     | 0.755 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.513  | 99   | 4681     | 0.718 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.440  | 82   | 2634     | 0.570 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.656 | 152  | 6530     | 0.690 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.475 | 330  | 2051     | 0.744 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.574 | 172  | 11528    | 0.742 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 18.785 | 212  | 21050    | 0.721 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.412 | 244  | 15171    | 0.735 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
|                               |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.003  | 88   | 1554     | 0.836 | ng    | 99       |
| 3) n-Nitrosodimethylamine     | 3.292  | 42   | 1291     | 0.745 | ng    | # 98     |
| 6) bis(2-Chloroethyl)ether    | 6.759  | 93   | 4066     | 0.831 | ng    | 100      |
| 9) Naphthalene                | 10.105 | 128  | 10954    | 0.790 | ng    | 99       |
| 10) Hexachlorobutadiene       | 10.404 | 225  | 2559     | 0.630 | ng    | # 100    |
| 12) 2-Methylnaphthalene       | 11.732 | 142  | 7925     | 0.775 | ng    | 99       |
| 16) Acenaphthylene            | 13.679 | 152  | 12523    | 0.766 | ng    | 100      |
| 17) Acenaphthene              | 14.031 | 154  | 8470     | 0.791 | ng    | 99       |
| 18) Fluorene                  | 15.026 | 166  | 12232    | 0.777 | ng    | 99       |
| 20) 4,6-Dinitro-2-methylph... | 15.122 | 198  | 784      | 0.395 | ng    | # 88     |
| 21) 4-Bromophenyl-phenylether | 15.941 | 248  | 4440     | 0.732 | ng    | 98       |
| 22) Hexachlorobenzene         | 16.041 | 284  | 5253     | 0.834 | ng    | 99       |
| 23) Atrazine                  | 16.227 | 200  | 2978     | 0.547 | ng    | 99       |
| 24) Pentachlorophenol         | 16.400 | 266  | 1968     | 0.669 | ng    | 87       |
| 25) Phenanthrene              | 16.773 | 178  | 20803    | 0.830 | ng    | 100      |
| 26) Anthracene                | 16.860 | 178  | 18528    | 0.805 | ng    | 99       |
| 28) Fluoranthene              | 18.813 | 202  | 27743    | 0.805 | ng    | 100      |
| 30) Pyrene                    | 19.180 | 202  | 28384    | 0.866 | ng    | 100      |
| 32) Benzo(a)anthracene        | 20.956 | 228  | 27048    | 0.790 | ng    | 99       |
| 33) Chrysene                  | 21.010 | 228  | 27838    | 0.820 | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 20.929 | 149  | 9941     | 0.553 | ng    | 100      |
| 36) Indeno(1,2,3-cd)pyrene    | 25.108 | 276  | 33248    | 0.779 | ng    | 100      |
| 37) Benzo(b)fluoranthene      | 22.453 | 252  | 29491    | 0.819 | ng    | 96       |
| 38) Benzo(k)fluoranthene      | 22.494 | 252  | 30369    | 0.843 | ng    | 96       |
| 39) Benzo(a)pyrene            | 22.977 | 252  | 25053    | 0.791 | ng    | 96       |
| 40) Dibenzo(a,h)anthracene    | 25.123 | 278  | 26222    | 0.775 | ng    | 98       |
| 41) Benzo(g,h,i)perylene      | 25.722 | 276  | 27143    | 0.755 | ng    | 98       |
| -----                         |        |      |          |       |       |          |

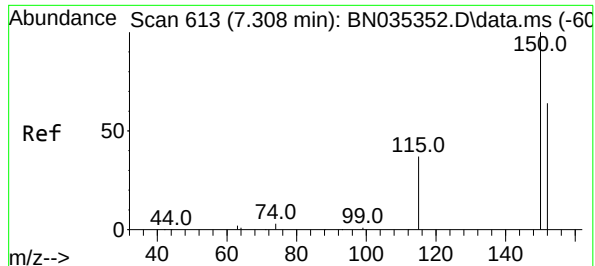
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112724\  
Data File : BN035353.D  
Acq On : 27 Nov 2024 17:21  
Operator : RC/JU  
Sample : SSTDICC0.8  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

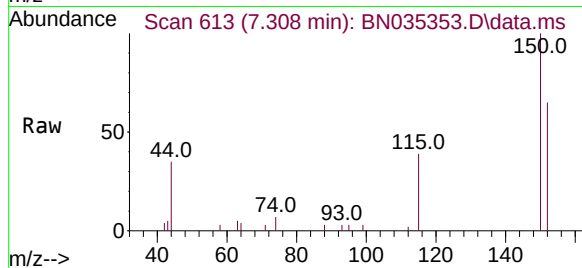
Quant Time: Nov 27 22:53:10 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Nov 27 22:48:24 2024  
Response via : Initial Calibration





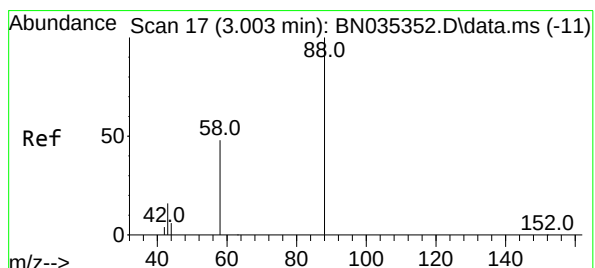
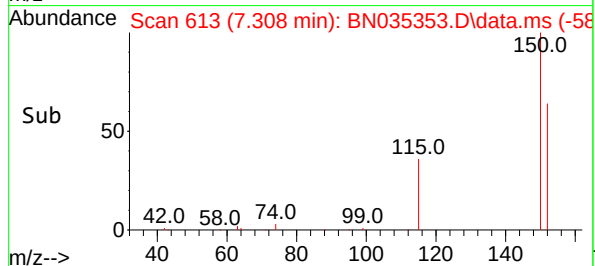
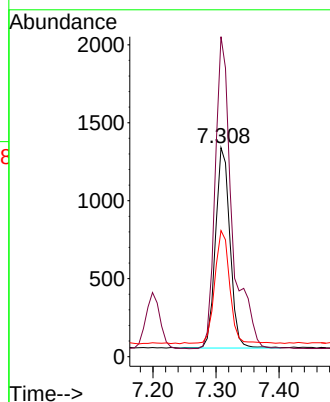
#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.308 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: BN035353.D  
Acq: 27 Nov 2024 17:21

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8



Tgt Ion: 152 Resp: 2047

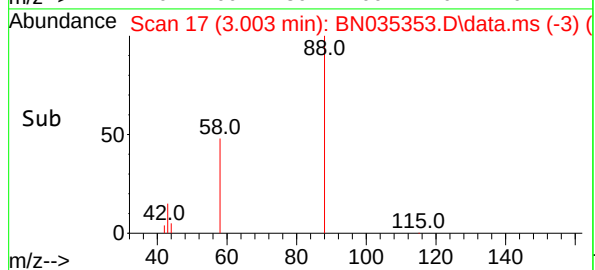
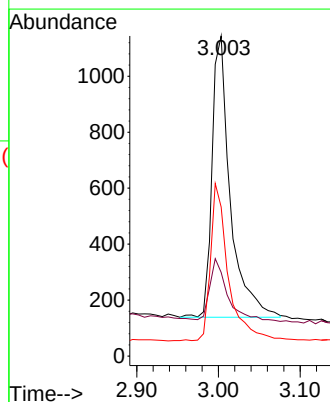
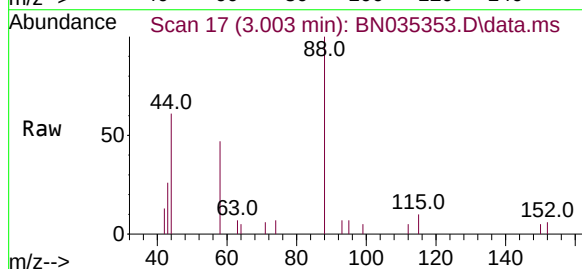
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 152 | 100   |       |       |
| 150 | 153.1 | 124.0 | 186.0 |
| 115 | 60.3  | 49.6  | 74.4  |

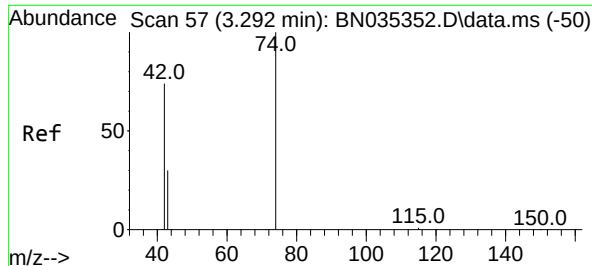


#2  
1,4-Dioxane  
Concen: 0.836 ng  
RT: 3.003 min Scan# 17  
Delta R.T. 0.000 min  
Lab File: BN035353.D  
Acq: 27 Nov 2024 17:21

Tgt Ion: 88 Resp: 1554

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 88  | 100   |       |       |
| 43  | 22.1  | 17.2  | 25.8  |
| 58  | 54.8  | 44.5  | 66.7  |

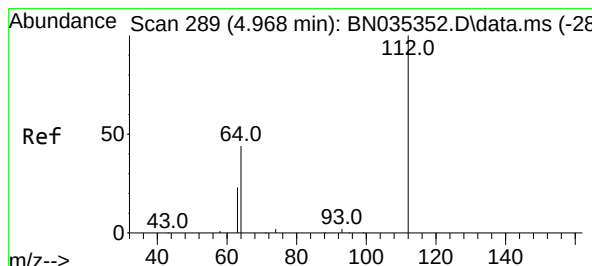
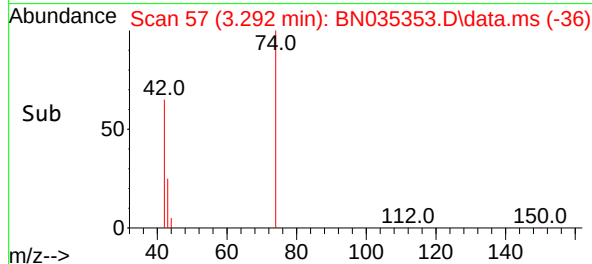
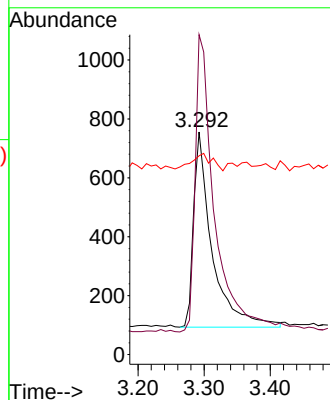
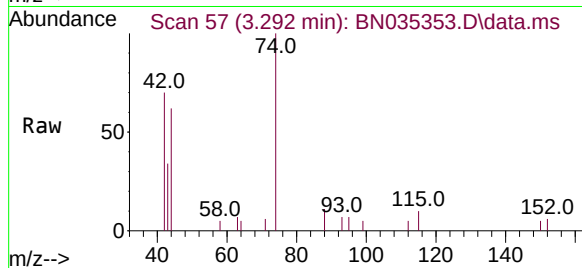




#3  
n-Nitrosodimethylamine  
Concen: 0.745 ng  
RT: 3.292 min Scan# 57  
Delta R.T. 0.000 min  
Lab File: BN035353.D  
Acq: 27 Nov 2024 17:21

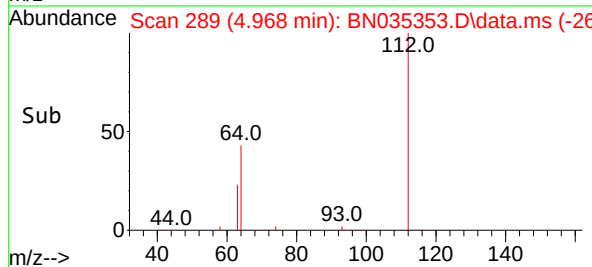
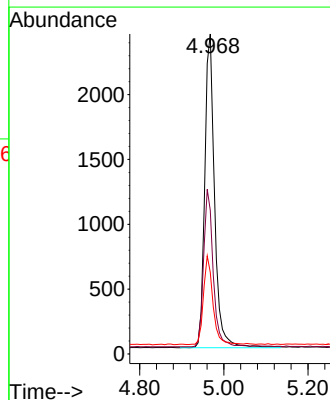
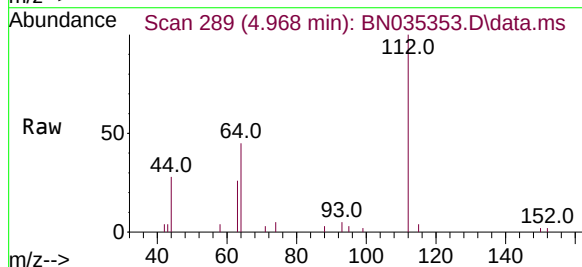
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

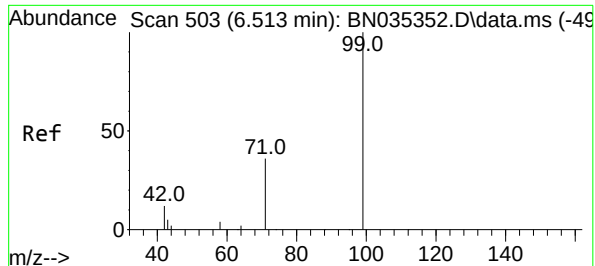
Tgt Ion: 42 Resp: 1291  
Ion Ratio Lower Upper  
42 100  
74 158.7 124.9 187.3  
44 9.8 2.2 3.4#



#4  
2-Fluorophenol  
Concen: 0.755 ng  
RT: 4.968 min Scan# 289  
Delta R.T. 0.000 min  
Lab File: BN035353.D  
Acq: 27 Nov 2024 17:21

Tgt Ion: 112 Resp: 3924  
Ion Ratio Lower Upper  
112 100  
64 49.0 39.8 59.8  
63 27.0 21.0 31.6

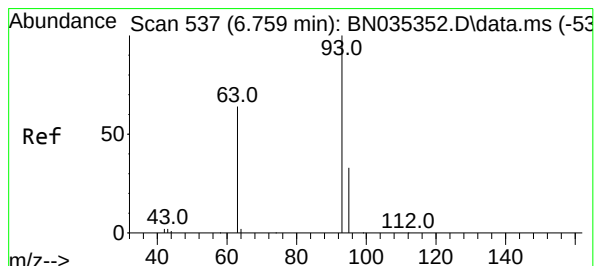
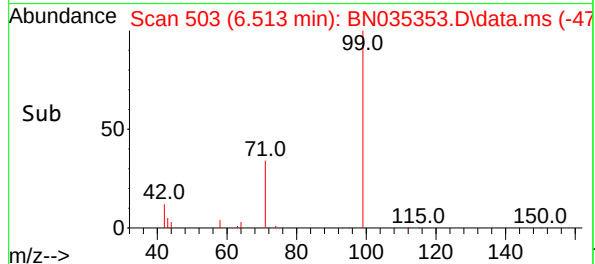
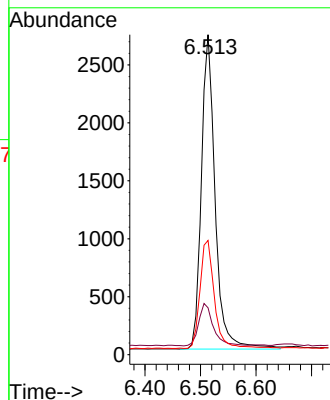
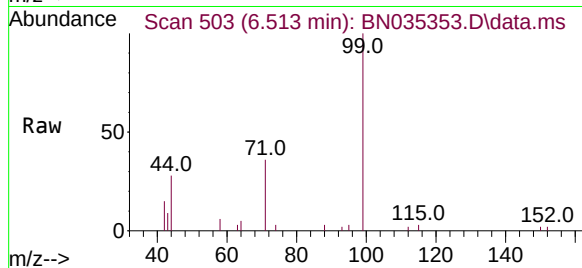




#5  
Phenol-d6  
Concen: 0.718 ng  
RT: 6.513 min Scan# 503  
Delta R.T. 0.000 min  
Lab File: BN035353.D  
Acq: 27 Nov 2024 17:21

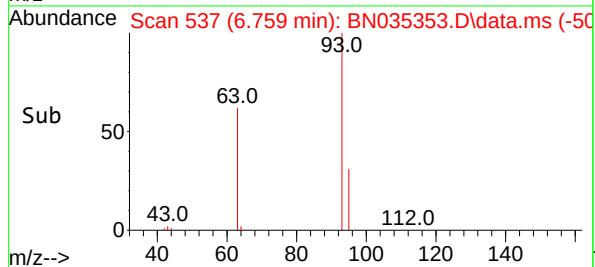
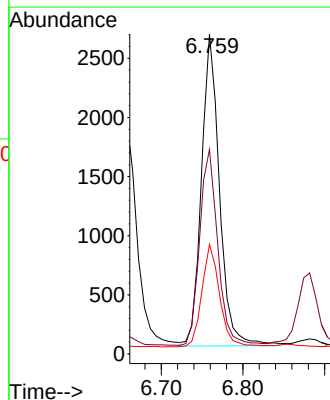
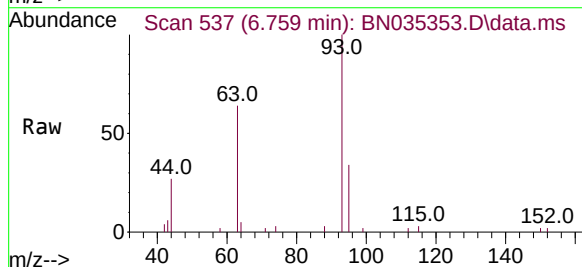
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

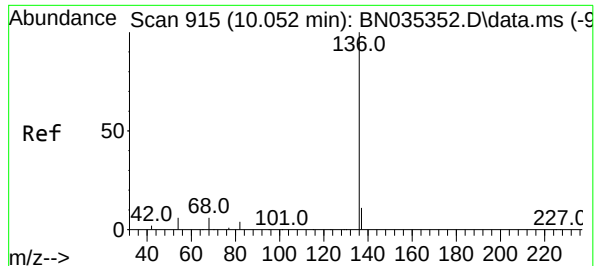
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 99      | 100   |       |       |
| 42      | 14.3  | 11.4  | 17.2  |
| 71      | 36.1  | 29.3  | 43.9  |



#6  
bis(2-Chloroethyl)ether  
Concen: 0.831 ng  
RT: 6.759 min Scan# 537  
Delta R.T. 0.000 min  
Lab File: BN035353.D  
Acq: 27 Nov 2024 17:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 93      | 100   |       |       |
| 63      | 62.8  | 50.4  | 75.6  |
| 95      | 32.4  | 25.7  | 38.5  |

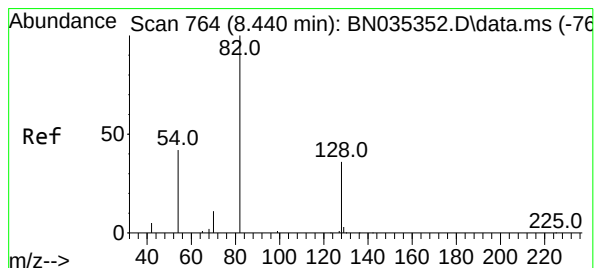
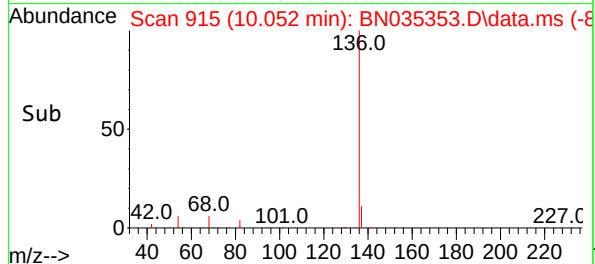
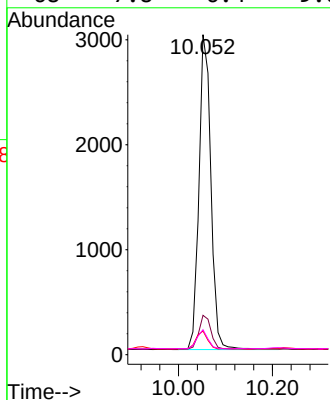
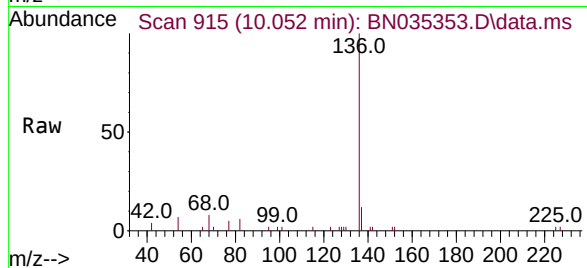




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.052 min Scan# 915  
Delta R.T. 0.000 min  
Lab File: BN035353.D  
Acq: 27 Nov 2024 17:21

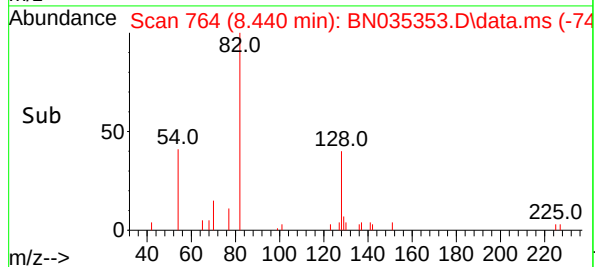
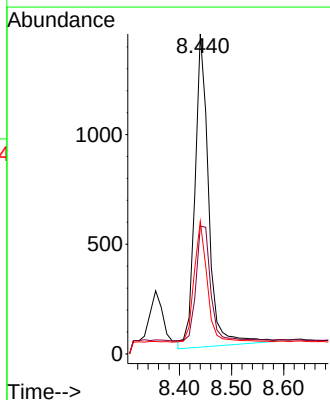
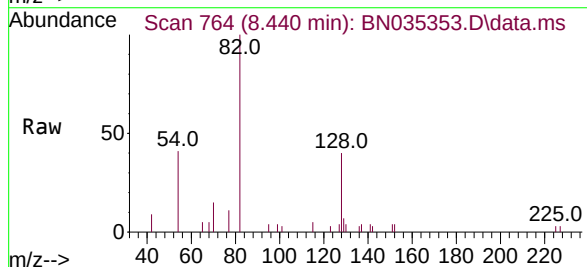
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

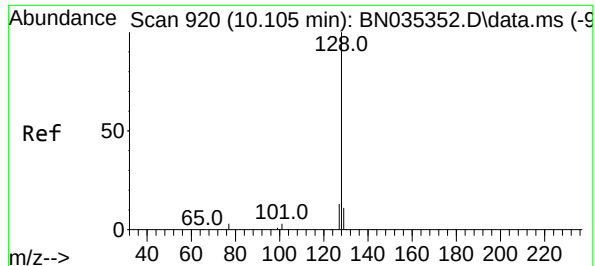
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 5308  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 12.3  | 10.2  | 15.2  |
| 54       | 7.4   | 6.1   | 9.1   |
| 68       | 7.8   | 6.4   | 9.6   |



#8  
Nitrobenzene-d5  
Concen: 0.570 ng  
RT: 8.440 min Scan# 764  
Delta R.T. 0.000 min  
Lab File: BN035353.D  
Acq: 27 Nov 2024 17:21

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 2634  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 40.0  | 33.4  | 50.0  |
| 54       | 41.5  | 36.7  | 55.1  |

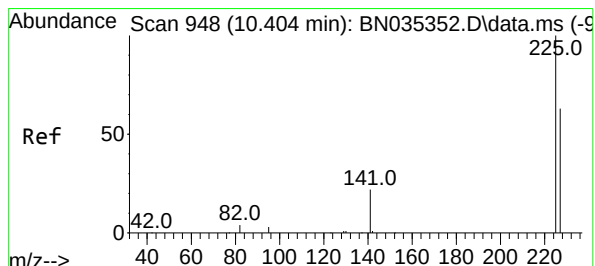
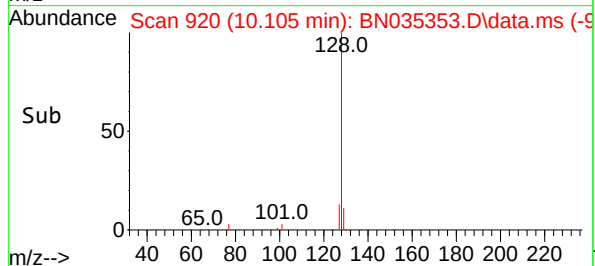
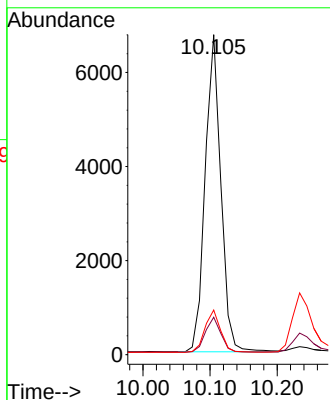
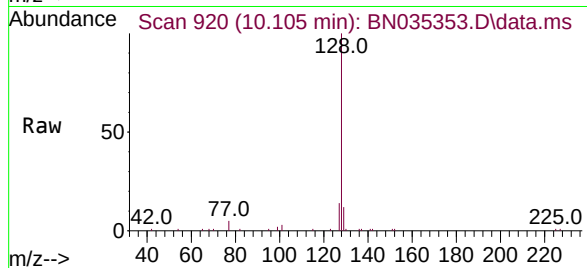




#9  
Naphthalene  
Concen: 0.790 ng  
RT: 10.105 min Scan# 912  
Delta R.T. 0.000 min  
Lab File: BN035353.D  
Acq: 27 Nov 2024 17:21

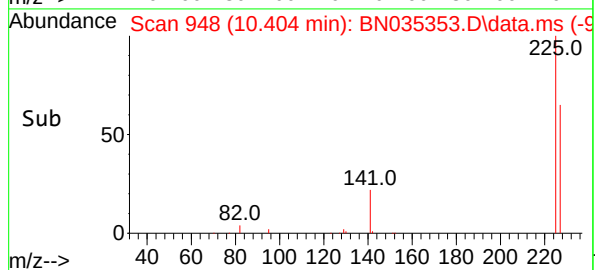
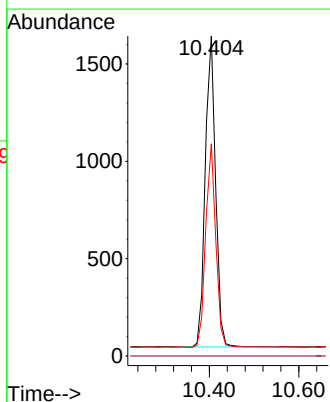
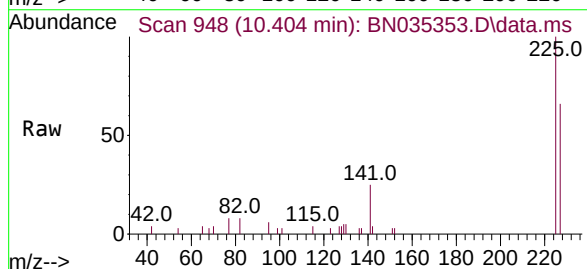
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

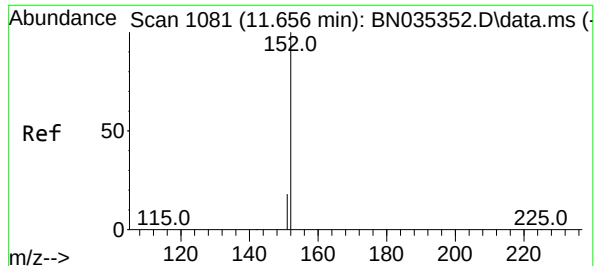
Tgt Ion:128 Resp: 10954  
Ion Ratio Lower Upper  
128 100  
129 11.7 9.8 14.6  
127 13.9 11.4 17.2



#10  
Hexachlorobutadiene  
Concen: 0.630 ng  
RT: 10.404 min Scan# 948  
Delta R.T. 0.000 min  
Lab File: BN035353.D  
Acq: 27 Nov 2024 17:21

Tgt Ion:225 Resp: 2559  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 64.1 51.3 76.9

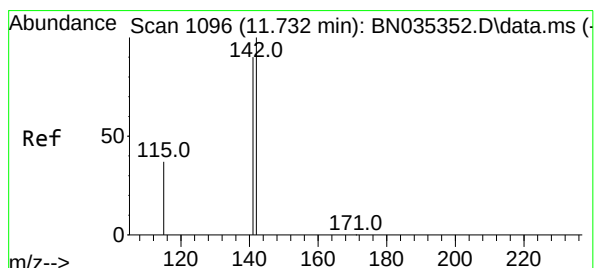
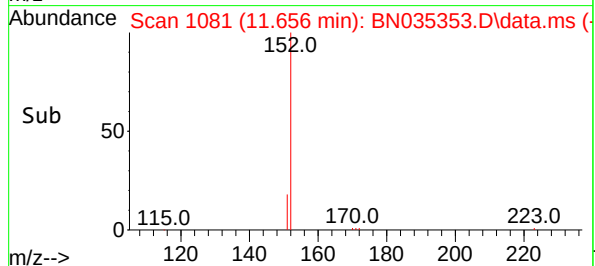
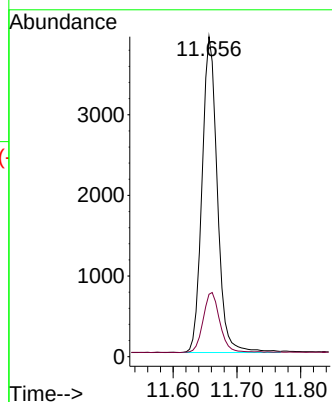
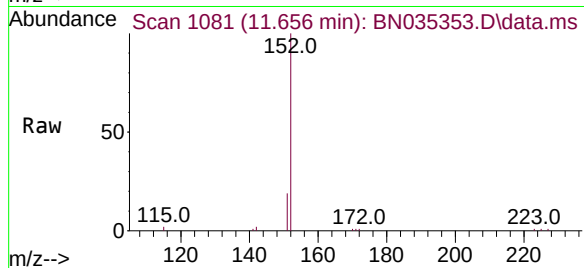




#11  
2-Methylnaphthalene-d10  
Concen: 0.690 ng  
RT: 11.656 min Scan# 1081  
Delta R.T. 0.000 min  
Lab File: BN035353.D  
Acq: 27 Nov 2024 17:21

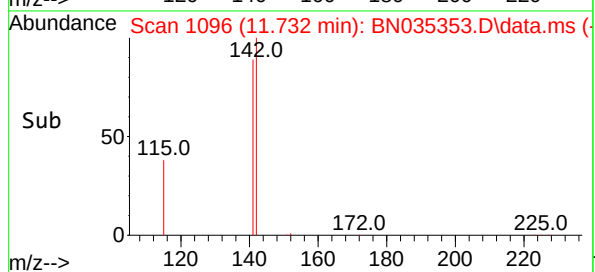
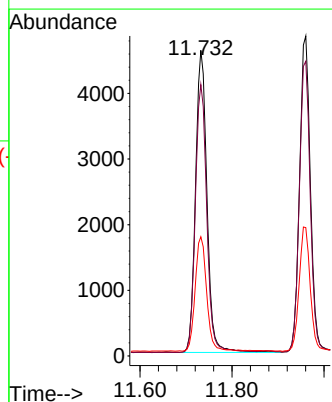
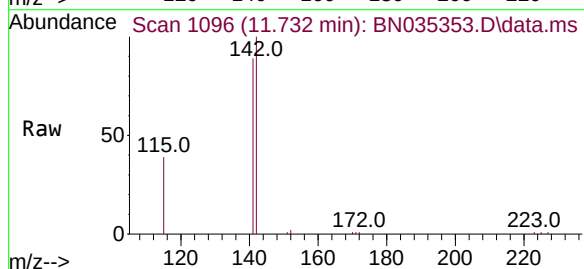
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

Tgt Ion:152 Resp: 6530  
Ion Ratio Lower Upper  
152 100  
151 20.8 16.6 25.0

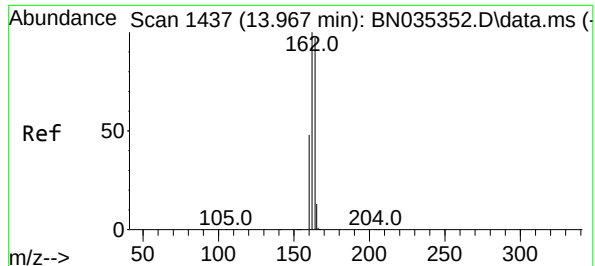


#12  
2-Methylnaphthalene  
Concen: 0.775 ng  
RT: 11.732 min Scan# 1096  
Delta R.T. 0.000 min  
Lab File: BN035353.D  
Acq: 27 Nov 2024 17:21

Tgt Ion:142 Resp: 7925  
Ion Ratio Lower Upper  
142 100  
141 88.8 72.2 108.4  
115 39.0 31.4 47.0



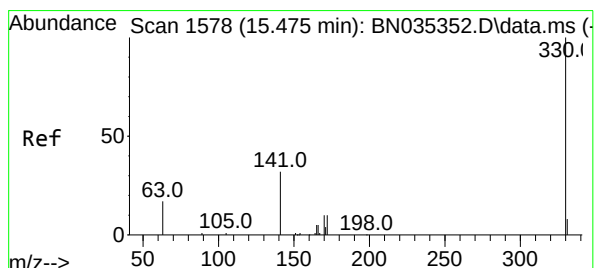
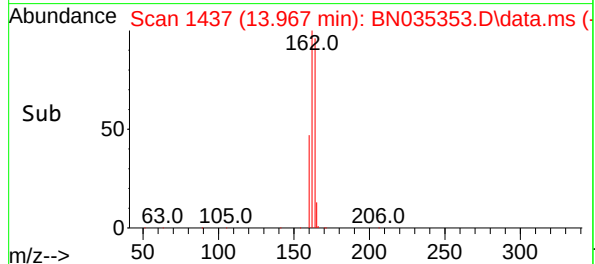
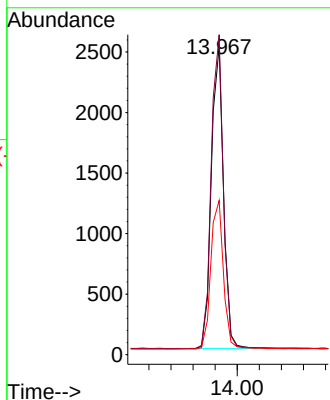
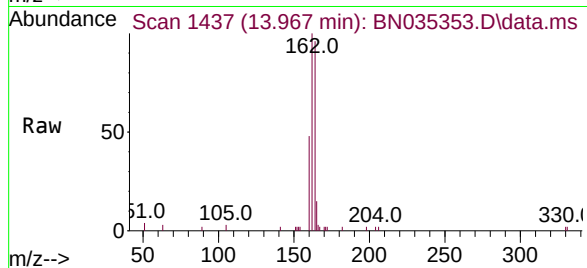




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.967 min Scan# 1437  
Delta R.T. 0.000 min  
Lab File: BN035353.D  
Acq: 27 Nov 2024 17:21

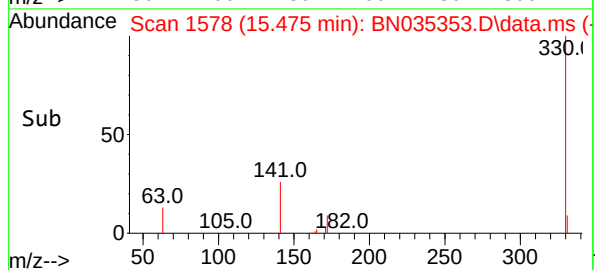
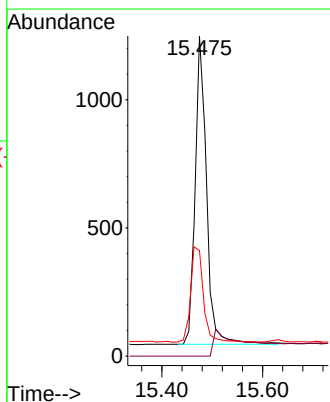
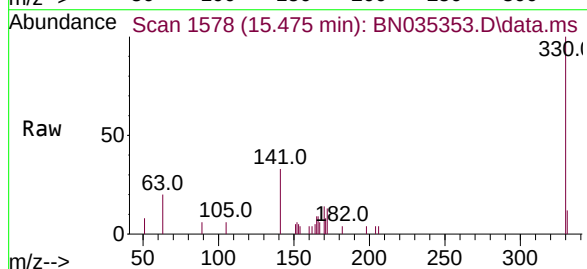
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

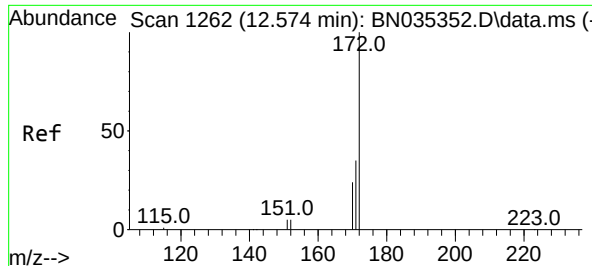
Tgt Ion:164 Resp: 3823  
Ion Ratio Lower Upper  
164 100  
162 103.9 82.2 123.2  
160 50.1 40.1 60.1



#14  
2,4,6-Tribromophenol  
Concen: 0.744 ng  
RT: 15.475 min Scan# 1578  
Delta R.T. 0.000 min  
Lab File: BN035353.D  
Acq: 27 Nov 2024 17:21

Tgt Ion:330 Resp: 2051  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 34.3 26.6 40.0





#15

2-Fluorobiphenyl

Concen: 0.742 ng

RT: 12.574 min Scan# 11

Delta R.T. 0.000 min

Lab File: BN035353.D

Acq: 27 Nov 2024 17:21

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8

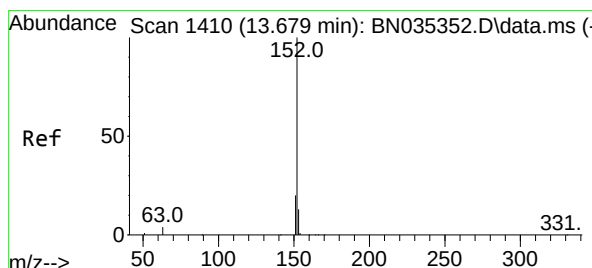
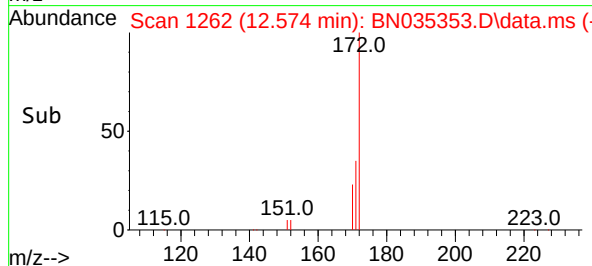
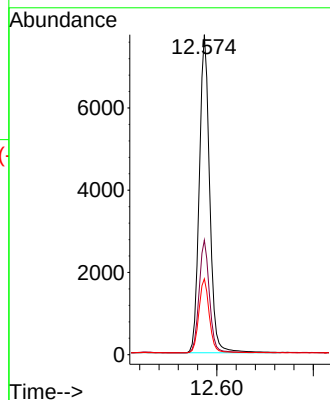
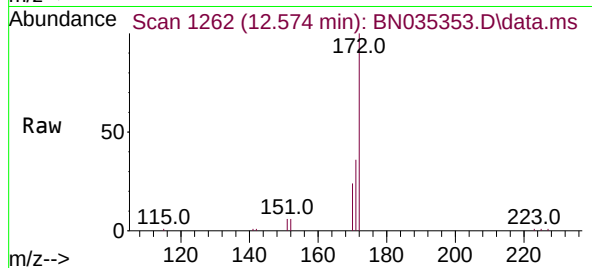
Tgt Ion:172 Resp: 11528

Ion Ratio Lower Upper

172 100

171 35.8 29.0 43.4

170 23.7 19.8 29.8



#16

Acenaphthylene

Concen: 0.766 ng

RT: 13.679 min Scan# 1410

Delta R.T. 0.000 min

Lab File: BN035353.D

Acq: 27 Nov 2024 17:21

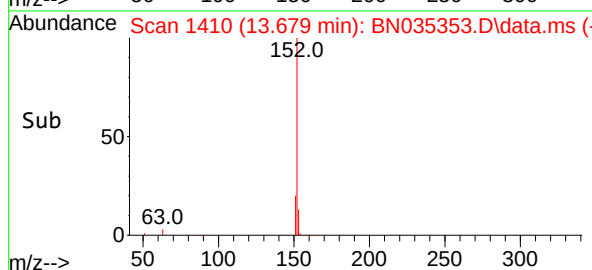
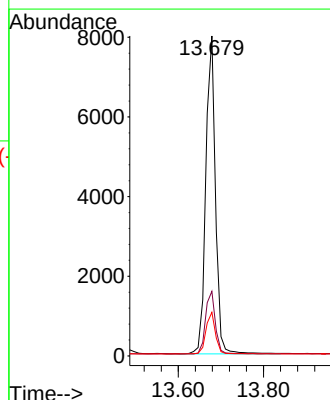
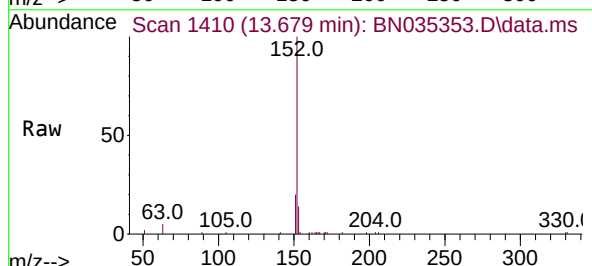
Tgt Ion:152 Resp: 12523

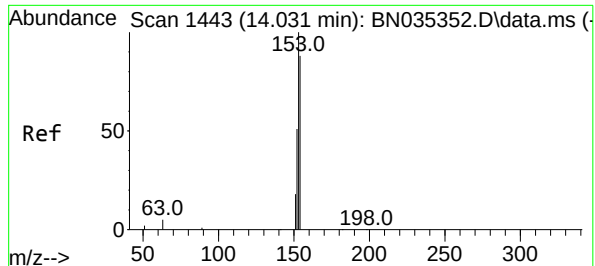
Ion Ratio Lower Upper

152 100

151 20.0 16.2 24.2

153 12.9 10.4 15.6

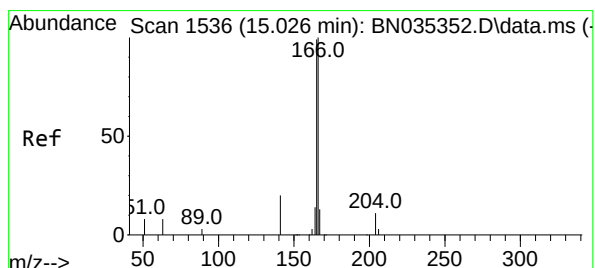
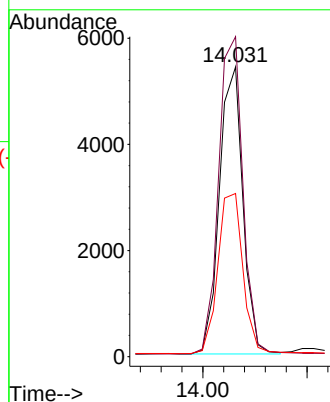
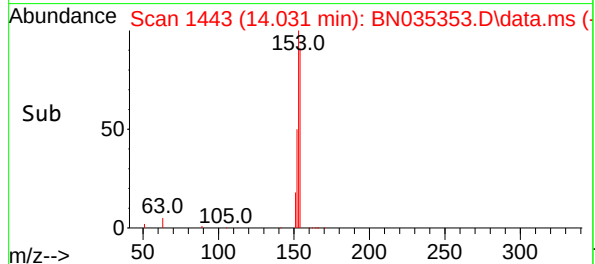
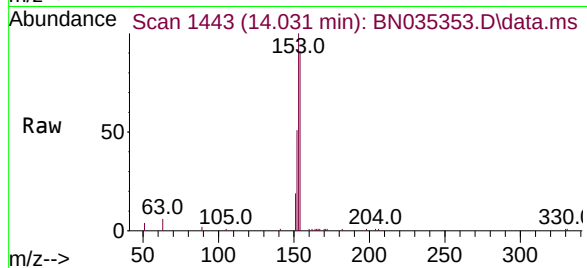




#17  
Acenaphthene  
Concen: 0.791 ng  
RT: 14.031 min Scan# 1443  
Delta R.T. 0.000 min  
Lab File: BN035353.D  
Acq: 27 Nov 2024 17:21

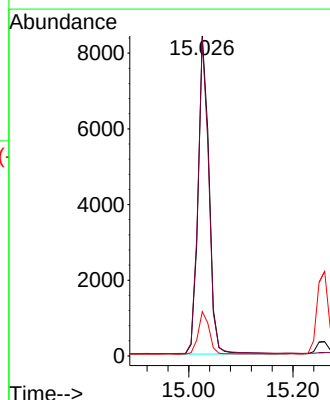
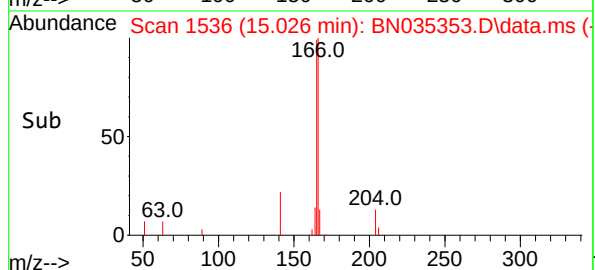
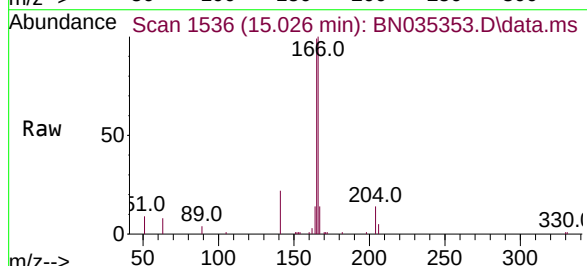
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

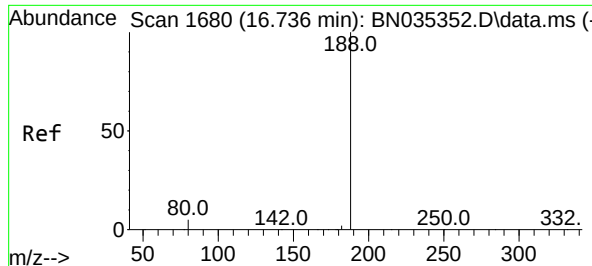
Tgt Ion:154 Resp: 8470  
Ion Ratio Lower Upper  
154 100  
153 114.8 92.6 139.0  
152 60.2 49.0 73.6



#18  
Fluorene  
Concen: 0.777 ng  
RT: 15.026 min Scan# 1536  
Delta R.T. 0.000 min  
Lab File: BN035353.D  
Acq: 27 Nov 2024 17:21

Tgt Ion:166 Resp: 12232  
Ion Ratio Lower Upper  
166 100  
165 98.5 79.7 119.5  
167 13.5 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.736 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN035353.D

Acq: 27 Nov 2024 17:21

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8

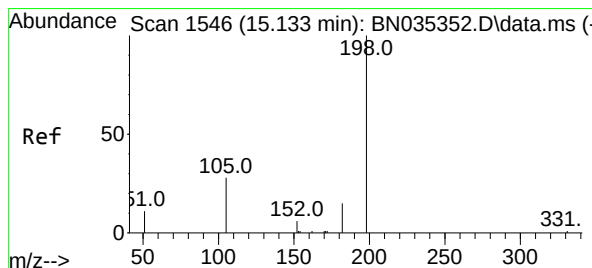
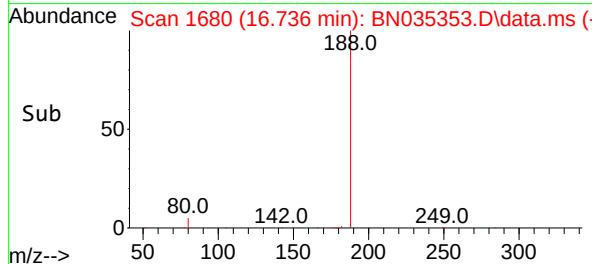
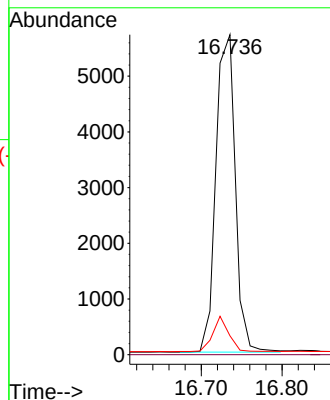
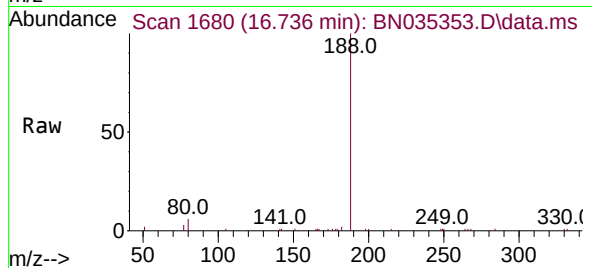
Tgt Ion:188 Resp: 9525

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 5.9 4.6 6.8



#20

4,6-Dinitro-2-methylphenol

Concen: 0.395 ng

RT: 15.122 min Scan# 1545

Delta R.T. -0.011 min

Lab File: BN035353.D

Acq: 27 Nov 2024 17:21

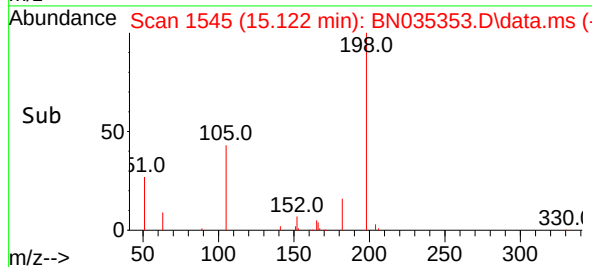
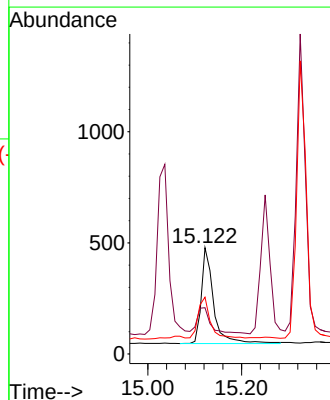
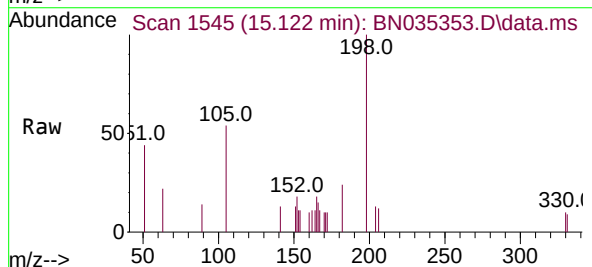
Tgt Ion:198 Resp: 784

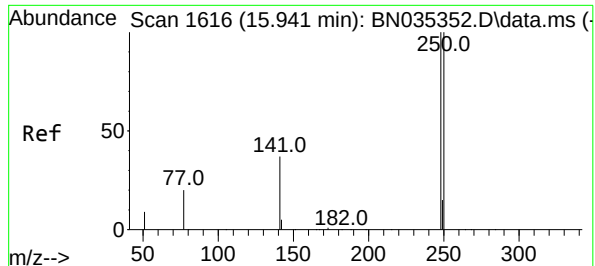
Ion Ratio Lower Upper

198 100

51 43.5 46.5 69.7#

105 53.6 45.3 67.9

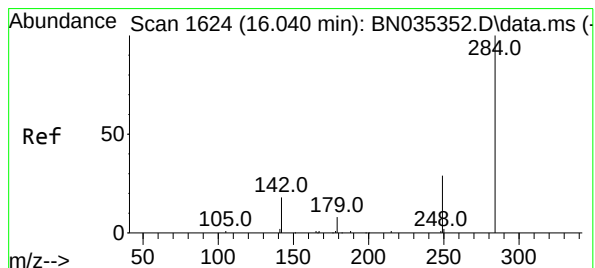
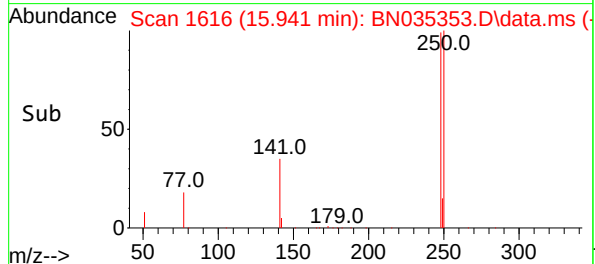
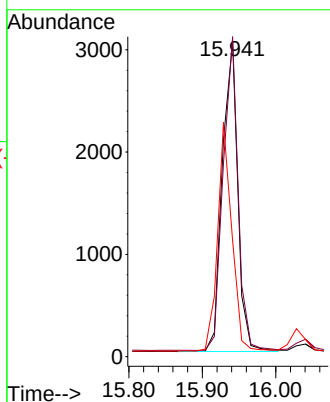
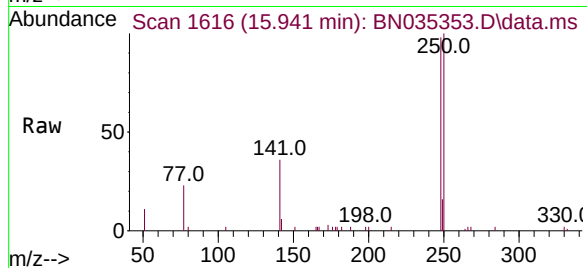




#21  
4-Bromophenyl-phenylether  
Concen: 0.732 ng  
RT: 15.941 min Scan# 1616  
Delta R.T. 0.000 min  
Lab File: BN035353.D  
Acq: 27 Nov 2024 17:21

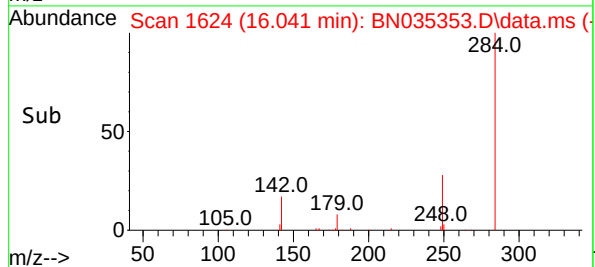
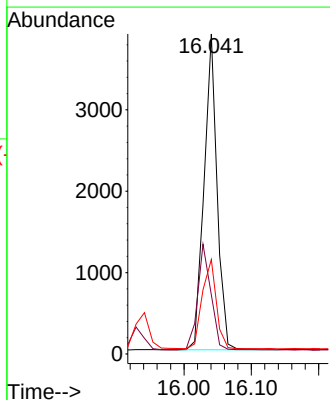
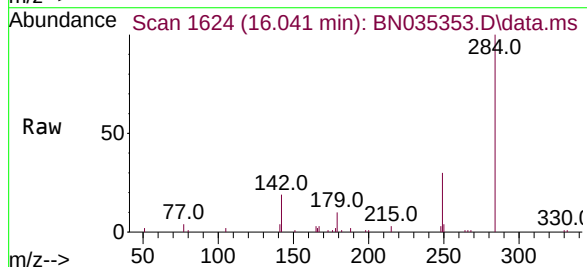
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

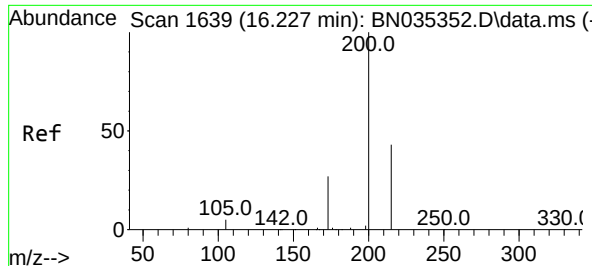
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 248     | 100   |       |       |
| 250     | 101.5 | 80.6  | 120.8 |
| 141     | 36.9  | 31.5  | 47.3  |



#22  
Hexachlorobenzene  
Concen: 0.834 ng  
RT: 16.041 min Scan# 1624  
Delta R.T. 0.000 min  
Lab File: BN035353.D  
Acq: 27 Nov 2024 17:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 284     | 100   |       |       |
| 142     | 34.0  | 26.7  | 40.1  |
| 249     | 30.3  | 24.6  | 36.8  |

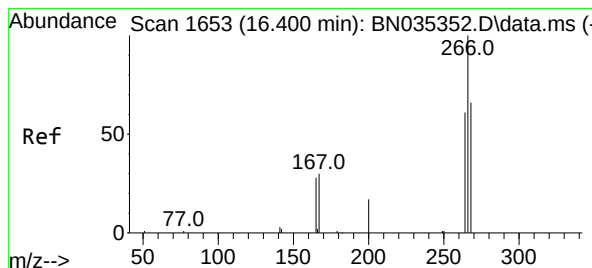
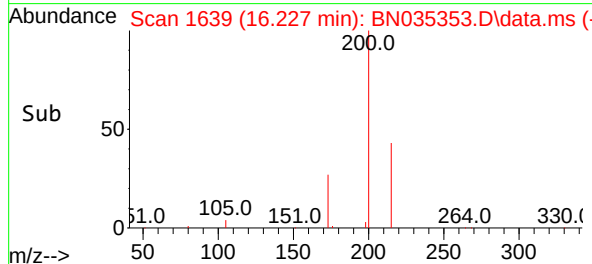
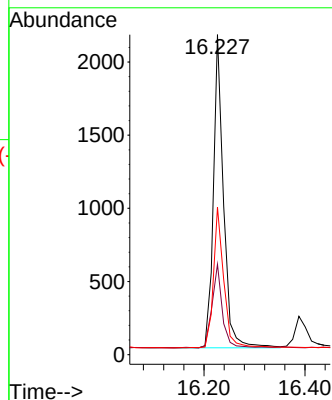
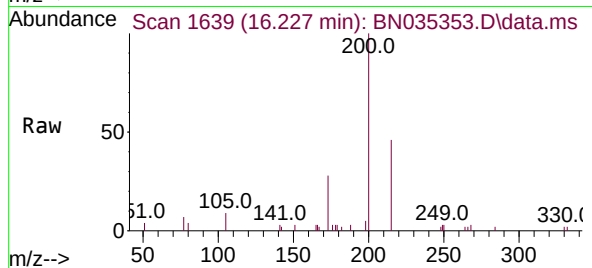




#23  
Atrazine  
Concen: 0.547 ng  
RT: 16.227 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: BN035353.D  
Acq: 27 Nov 2024 17:21

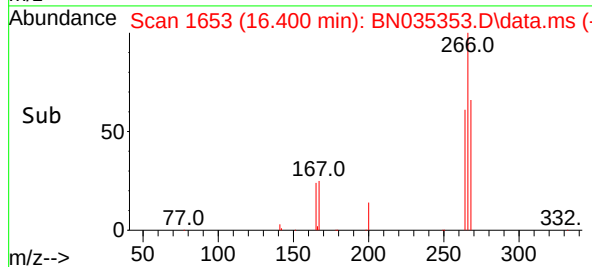
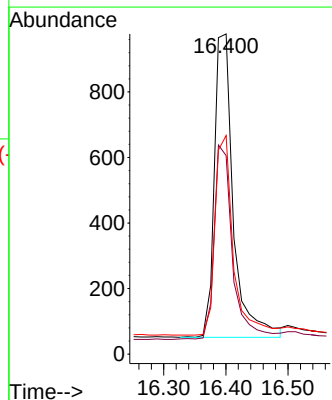
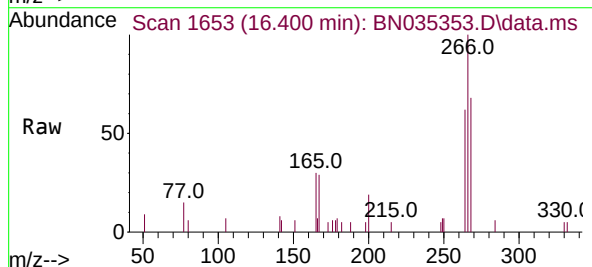
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

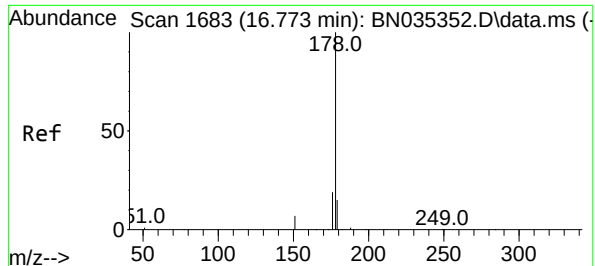
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 200     | 100   |       |       |
| 173     | 28.3  | 24.1  | 36.1  |
| 215     | 46.1  | 36.9  | 55.3  |



#24  
Pentachlorophenol  
Concen: 0.669 ng  
RT: 16.400 min Scan# 1653  
Delta R.T. 0.000 min  
Lab File: BN035353.D  
Acq: 27 Nov 2024 17:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 266     | 100   |       |       |
| 264     | 61.9  | 42.3  | 63.5  |
| 268     | 63.7  | 43.3  | 64.9  |

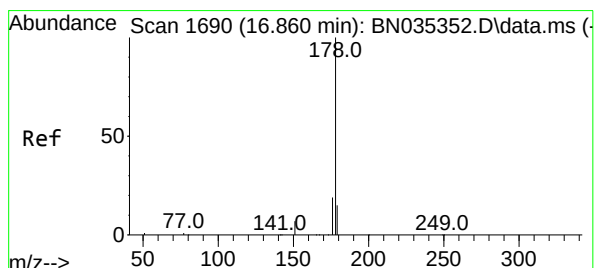
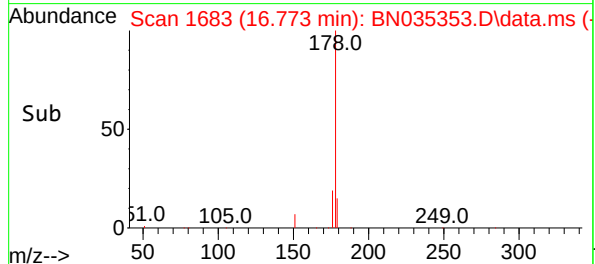
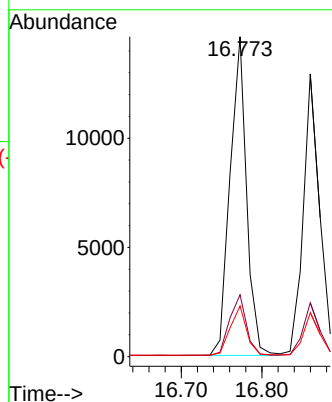
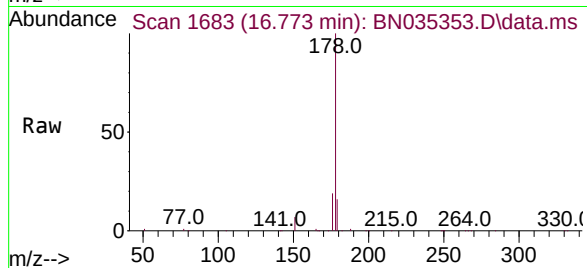




#25  
Phenanthrene  
Concen: 0.830 ng  
RT: 16.773 min Scan# 1683  
Delta R.T. 0.000 min  
Lab File: BN035353.D  
Acq: 27 Nov 2024 17:21

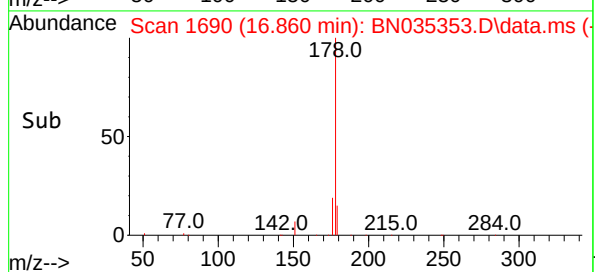
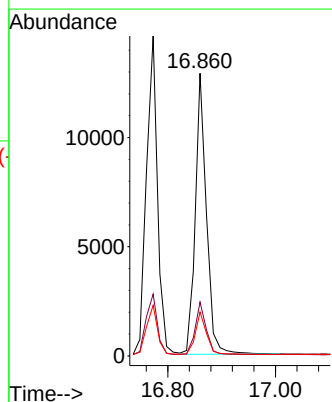
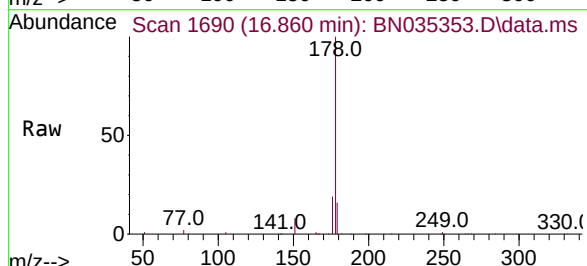
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

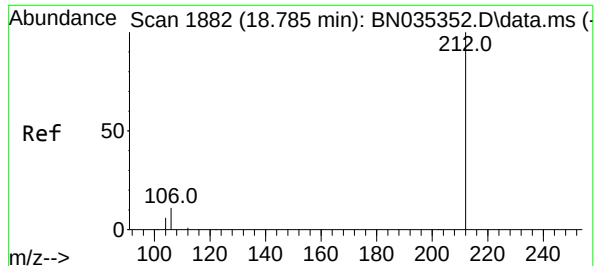
Tgt Ion:178 Resp: 20803  
Ion Ratio Lower Upper  
178 100  
176 19.4 15.4 23.2  
179 15.4 12.3 18.5



#26  
Anthracene  
Concen: 0.805 ng  
RT: 16.860 min Scan# 1690  
Delta R.T. 0.000 min  
Lab File: BN035353.D  
Acq: 27 Nov 2024 17:21

Tgt Ion:178 Resp: 18528  
Ion Ratio Lower Upper  
178 100  
176 18.6 15.0 22.6  
179 15.2 12.6 18.8





#27

Fluoranthene-d10

Concen: 0.721 ng

RT: 18.785 min Scan# 1882

Delta R.T. 0.000 min

Lab File: BN035353.D

Acq: 27 Nov 2024 17:21

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8

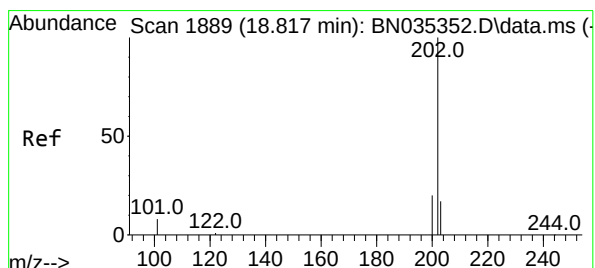
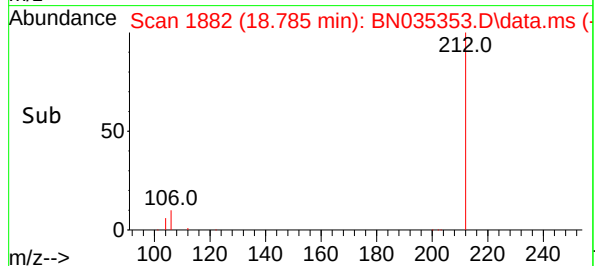
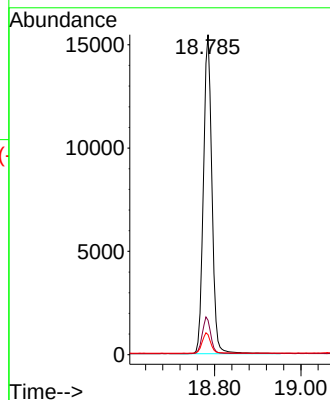
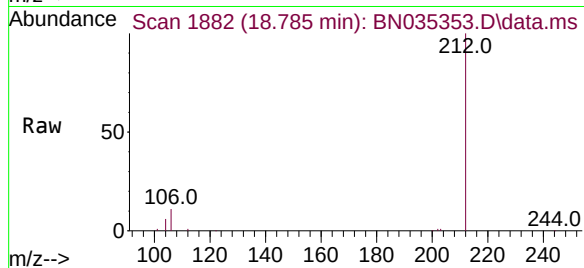
Tgt Ion:212 Resp: 21050

Ion Ratio Lower Upper

212 100

106 11.3 9.2 13.8

104 6.4 5.3 7.9



#28

Fluoranthene

Concen: 0.805 ng

RT: 18.813 min Scan# 1888

Delta R.T. -0.005 min

Lab File: BN035353.D

Acq: 27 Nov 2024 17:21

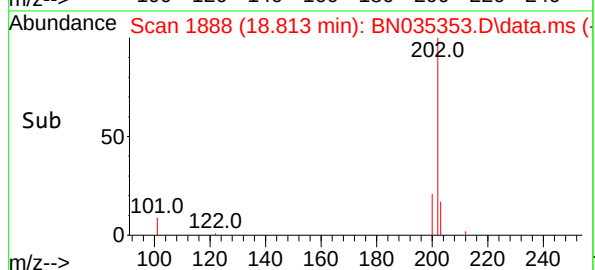
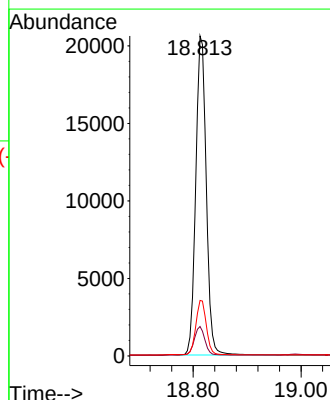
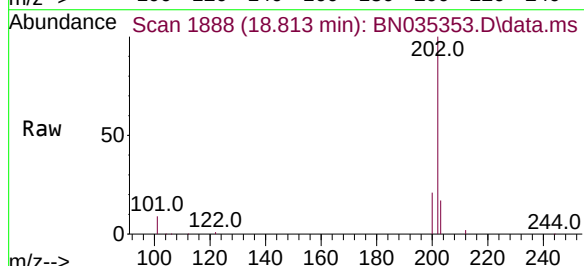
Tgt Ion:202 Resp: 27743

Ion Ratio Lower Upper

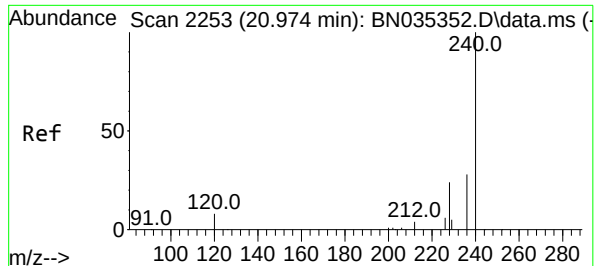
202 100

101 9.1 7.4 11.0

203 17.1 13.7 20.5







#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.974 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN035353.D

Acq: 27 Nov 2024 17:21

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8

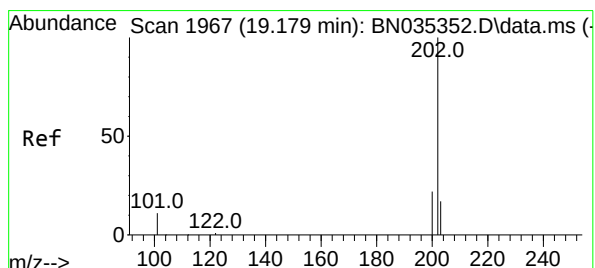
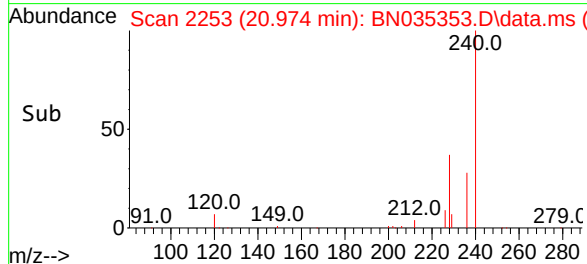
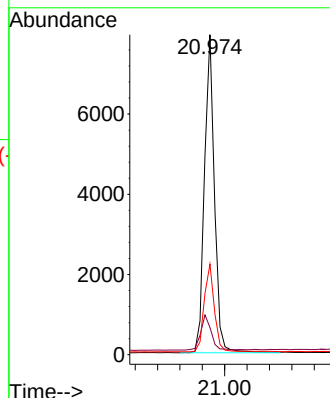
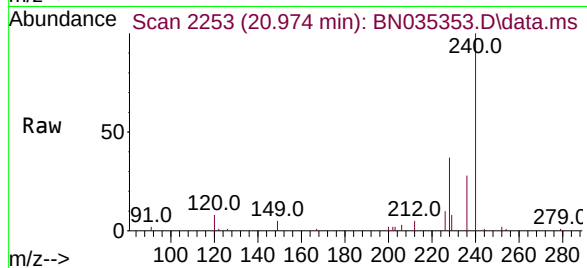
Tgt Ion:240 Resp: 9837

Ion Ratio Lower Upper

240 100

120 8.5 7.9 11.9

236 28.3 22.9 34.3



#30

Pyrene

Concen: 0.866 ng

RT: 19.180 min Scan# 1967

Delta R.T. 0.000 min

Lab File: BN035353.D

Acq: 27 Nov 2024 17:21

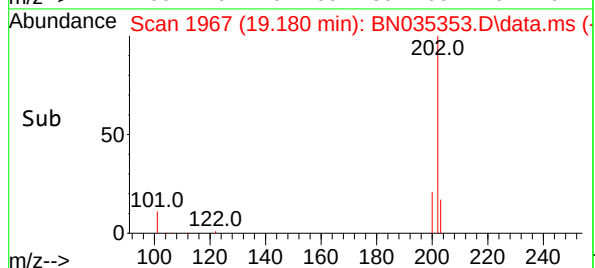
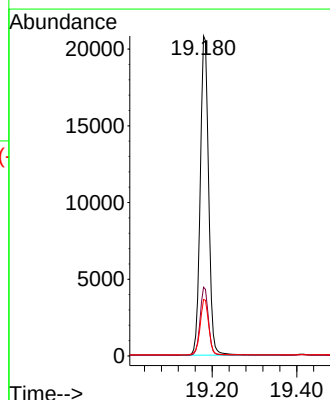
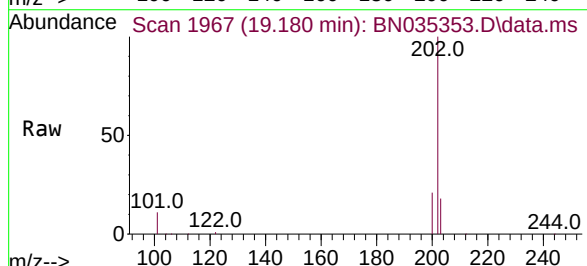
Tgt Ion:202 Resp: 28384

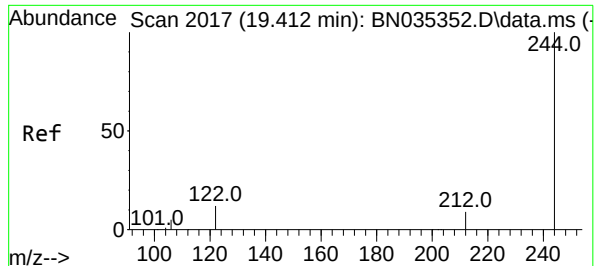
Ion Ratio Lower Upper

202 100

200 21.1 17.0 25.4

203 17.8 14.3 21.5

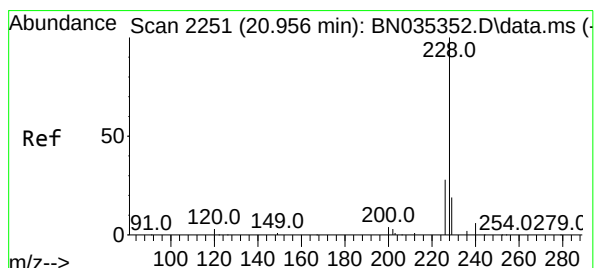
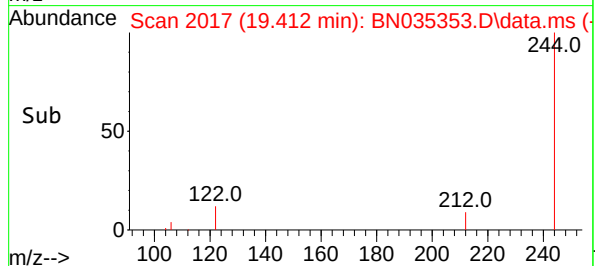
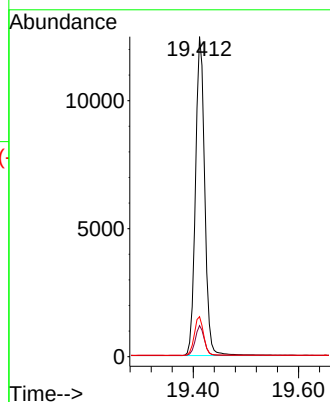
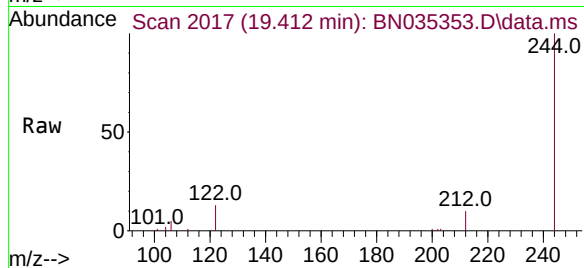




#31  
Terphenyl-d14  
Concen: 0.735 ng  
RT: 19.412 min Scan# 2017  
Delta R.T. 0.000 min  
Lab File: BN035353.D  
Acq: 27 Nov 2024 17:21

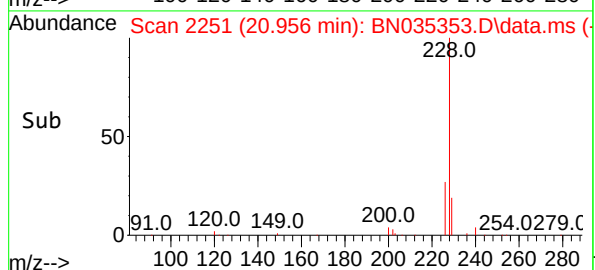
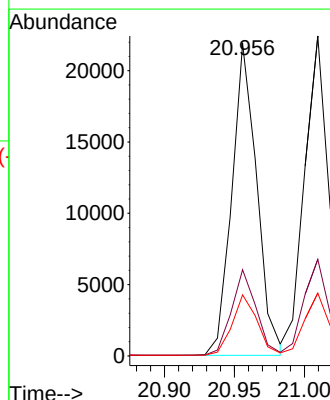
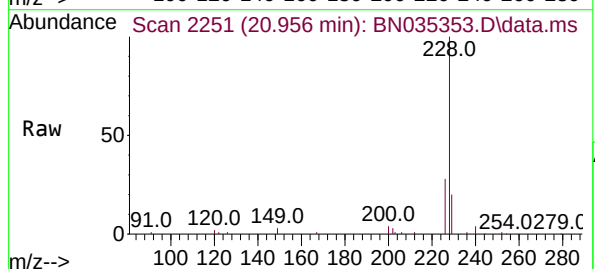
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

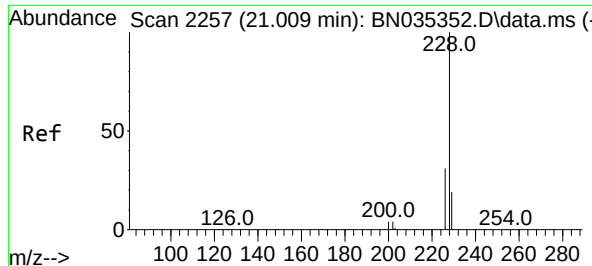
Tgt Ion:244 Resp: 15171  
Ion Ratio Lower Upper  
244 100  
212 9.7 8.1 12.1  
122 12.5 10.3 15.5



#32  
Benzo(a)anthracene  
Concen: 0.790 ng  
RT: 20.956 min Scan# 2251  
Delta R.T. 0.000 min  
Lab File: BN035353.D  
Acq: 27 Nov 2024 17:21

Tgt Ion:228 Resp: 27048  
Ion Ratio Lower Upper  
228 100  
226 27.6 22.5 33.7  
229 19.5 15.8 23.8





#33

Chrysene

Concen: 0.820 ng

RT: 21.010 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN035353.D

Acq: 27 Nov 2024 17:21

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8

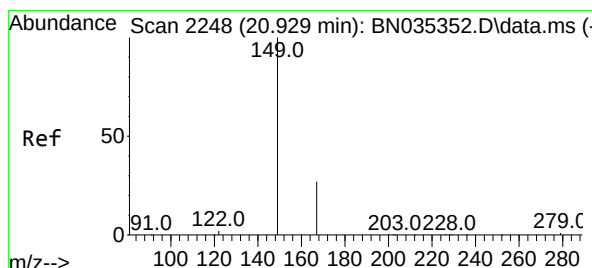
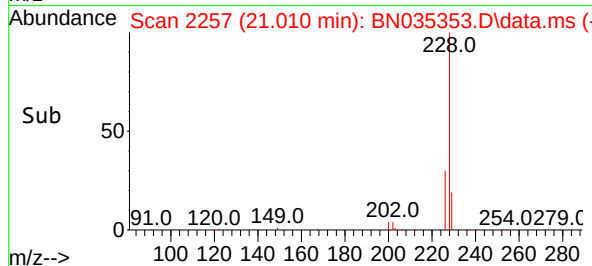
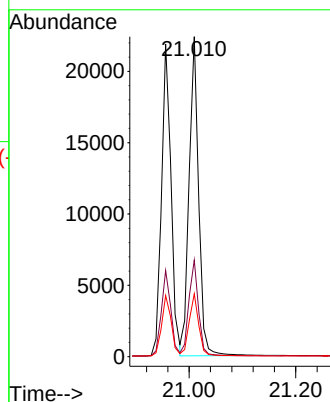
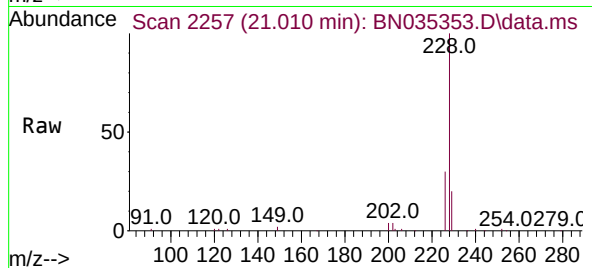
Tgt Ion:228 Resp: 27838

Ion Ratio Lower Upper

228 100

226 30.2 24.6 37.0

229 19.6 15.9 23.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.553 ng

RT: 20.929 min Scan# 2248

Delta R.T. 0.000 min

Lab File: BN035353.D

Acq: 27 Nov 2024 17:21

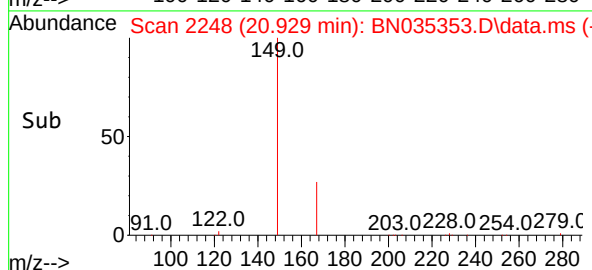
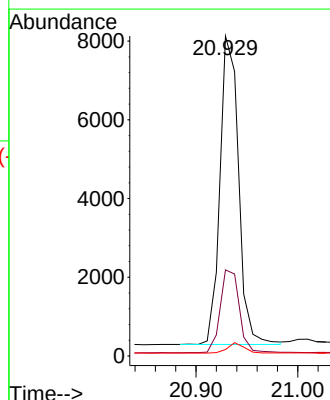
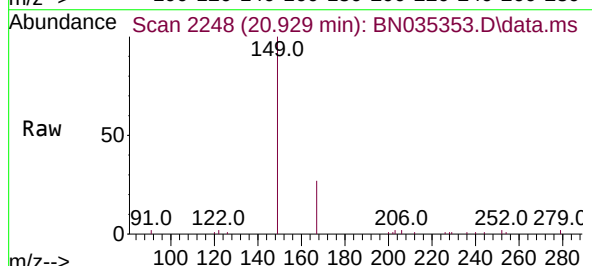
Tgt Ion:149 Resp: 9941

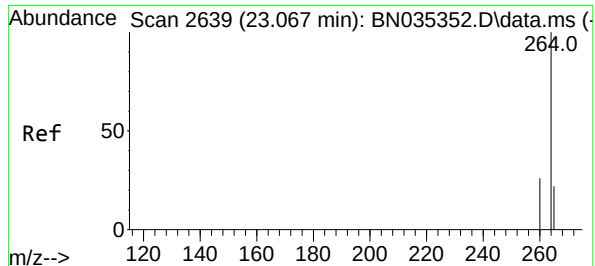
Ion Ratio Lower Upper

149 100

167 27.6 22.2 33.4

279 3.0 2.7 4.1





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.067 min Scan# 2

Delta R.T. 0.000 min

Lab File: BN035353.D

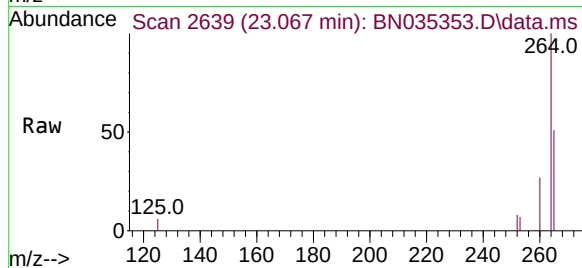
Acq: 27 Nov 2024 17:21

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8



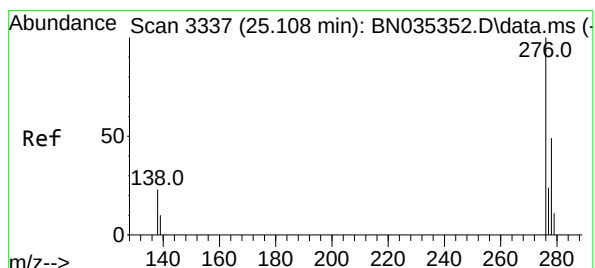
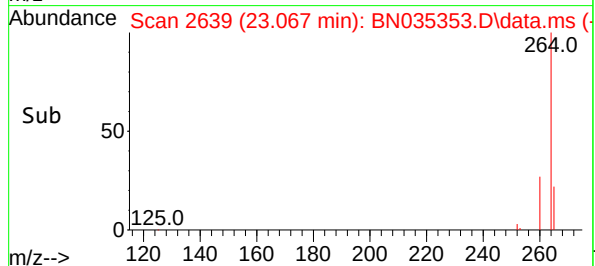
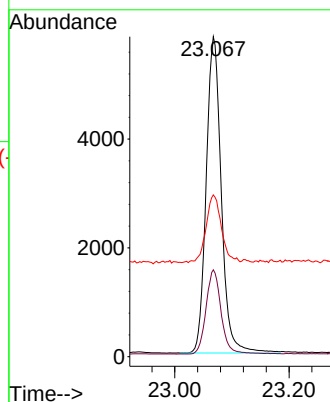
Tgt Ion:264 Resp: 10698

Ion Ratio Lower Upper

264 100

260 27.1 21.4 32.2

265 50.6 40.2 60.4



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.779 ng

RT: 25.108 min Scan# 3337

Delta R.T. 0.000 min

Lab File: BN035353.D

Acq: 27 Nov 2024 17:21

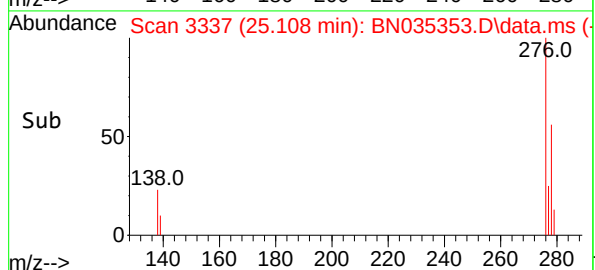
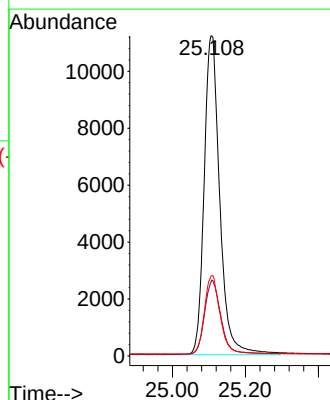
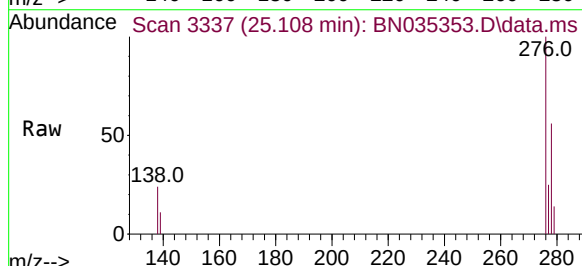
Tgt Ion:276 Resp: 33248

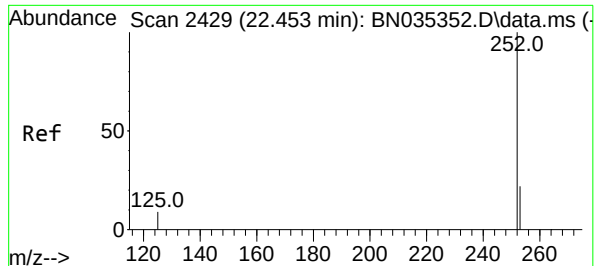
Ion Ratio Lower Upper

276 100

138 23.7 19.4 29.0

277 24.7 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.819 ng

RT: 22.453 min Scan# 2429

Delta R.T. 0.000 min

Lab File: BN035353.D

Acq: 27 Nov 2024 17:21

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8

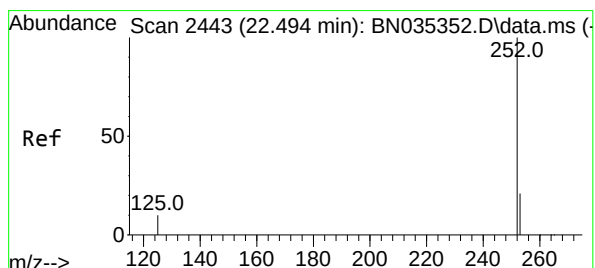
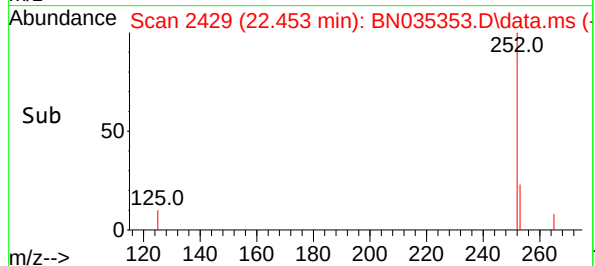
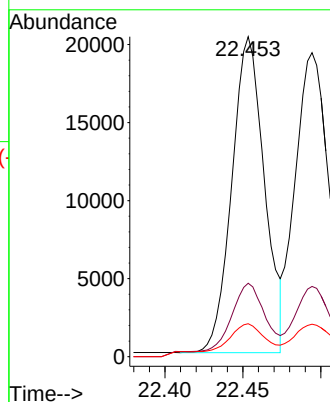
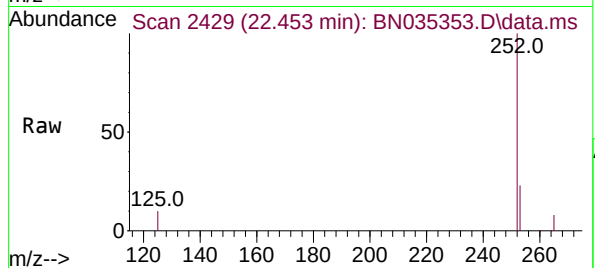
Tgt Ion:252 Resp: 29491

Ion Ratio Lower Upper

252 100

253 22.9 19.6 29.4

125 10.3 9.6 14.4



#38

Benzo(k)fluoranthene

Concen: 0.843 ng

RT: 22.494 min Scan# 2443

Delta R.T. 0.000 min

Lab File: BN035353.D

Acq: 27 Nov 2024 17:21

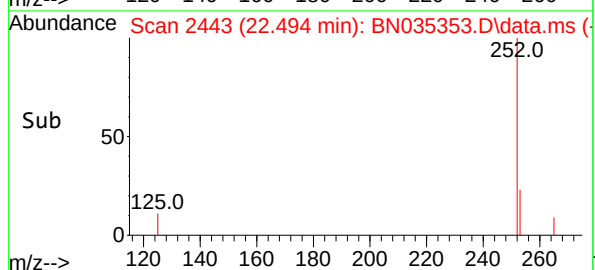
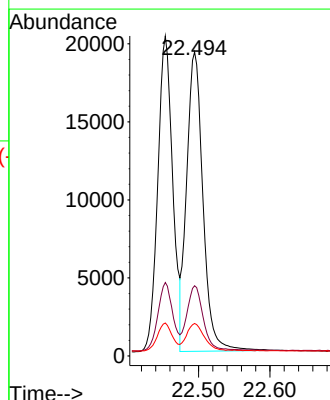
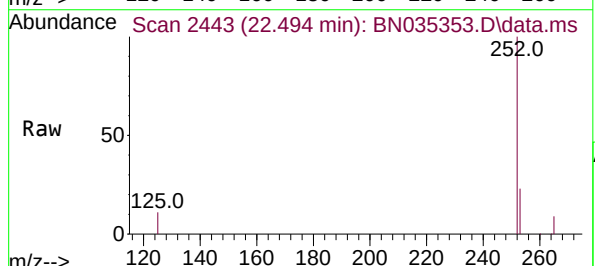
Tgt Ion:252 Resp: 30369

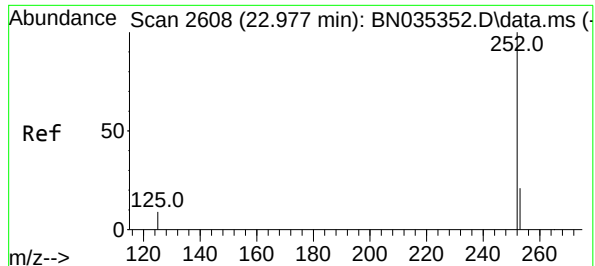
Ion Ratio Lower Upper

252 100

253 23.1 19.5 29.3

125 10.7 10.2 15.4





#39

Benzo(a)pyrene

Concen: 0.791 ng

RT: 22.977 min Scan# 2

Delta R.T. 0.000 min

Lab File: BN035353.D

Acq: 27 Nov 2024 17:21

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8

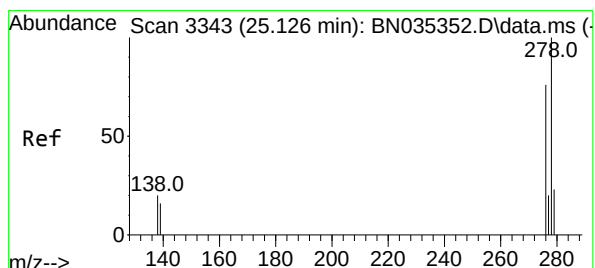
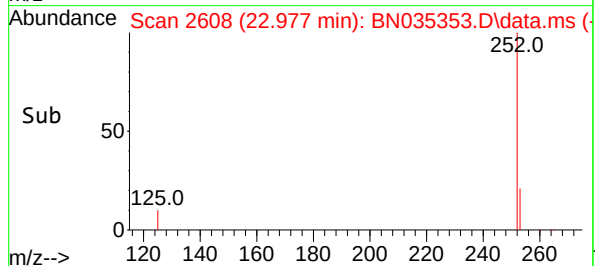
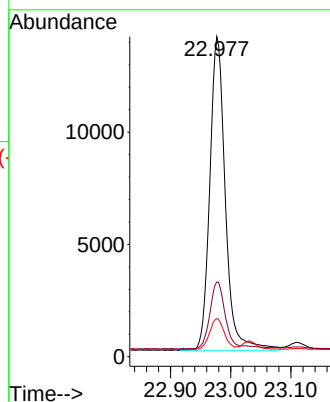
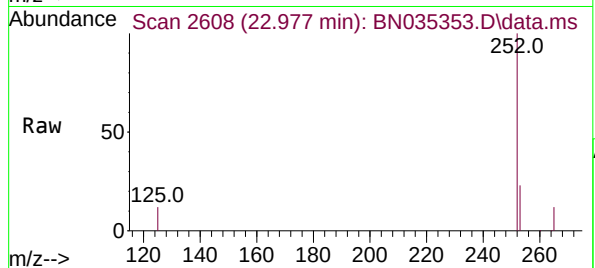
Tgt Ion:252 Resp: 25053

Ion Ratio Lower Upper

252 100

253 23.3 20.2 30.4

125 11.9 10.9 16.3



#40

Dibenzo(a,h)anthracene

Concen: 0.775 ng

RT: 25.123 min Scan# 3342

Delta R.T. -0.003 min

Lab File: BN035353.D

Acq: 27 Nov 2024 17:21

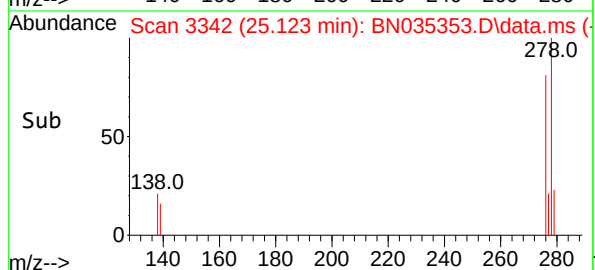
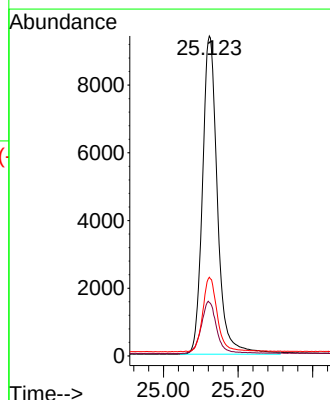
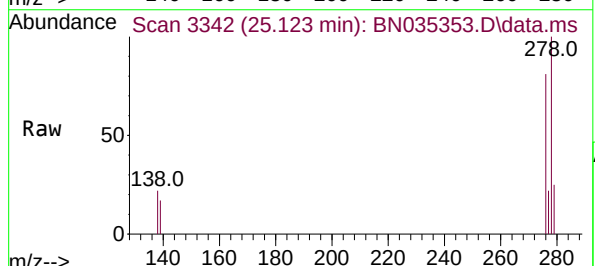
Tgt Ion:278 Resp: 26222

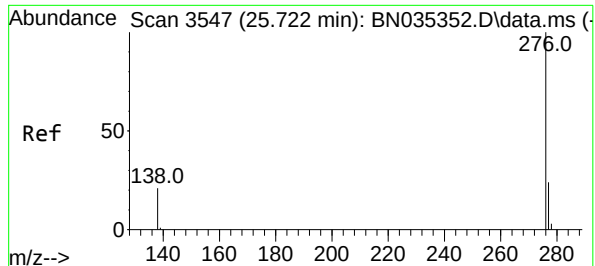
Ion Ratio Lower Upper

278 100

139 16.7 14.2 21.4

279 24.6 20.5 30.7





#41

Benzo(g,h,i)perylene

Concen: 0.755 ng

RT: 25.722 min Scan# 3

Delta R.T. 0.000 min

Lab File: BN035353.D

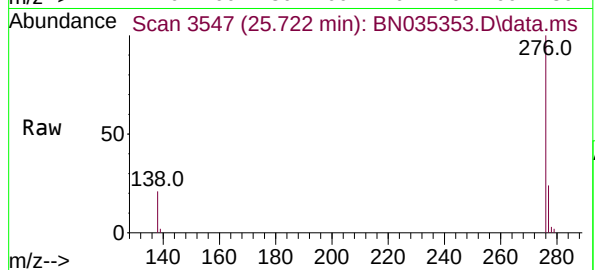
Acq: 27 Nov 2024 17:21

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8



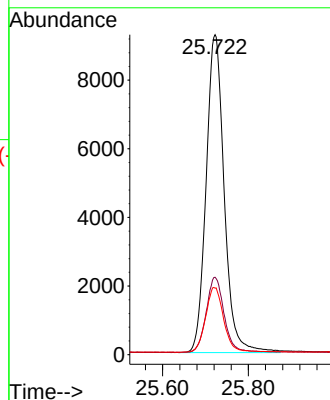
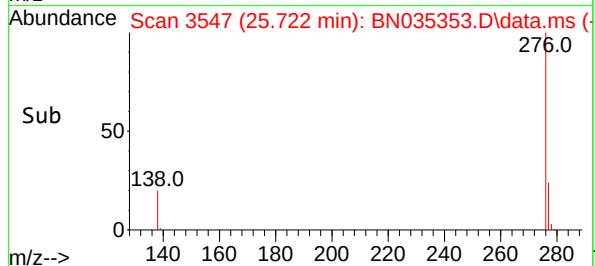
Tgt Ion:276 Resp: 27143

Ion Ratio Lower Upper

276 100

277 24.2 19.9 29.9

138 20.8 17.8 26.8



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112724\  
 Data File : BN035354.D  
 Acq On : 27 Nov 2024 17:57  
 Operator : RC/JU  
 Sample : SSTDICC1.6  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC1.6

Quant Time: Nov 27 22:53:28 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Nov 27 22:48:24 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.308  | 152  | 2053     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.052 | 136  | 5309     | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 13.967 | 164  | 3942     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 16.723 | 188  | 9517     | 0.400 | ng    | #-0.01   |
| 29) Chrysene-d12              | 20.974 | 240  | 9905     | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.067 | 264  | 10469    | 0.400 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 4.968  | 112  | 8194     | 1.572 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.513  | 99   | 10139    | 1.552 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.440  | 82   | 5450     | 1.179 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.656 | 152  | 13988    | 1.478 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.475 | 330  | 4615     | 1.623 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.574 | 172  | 24687    | 1.542 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 18.785 | 212  | 44338    | 1.521 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.412 | 244  | 32174    | 1.548 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
| 2) 1,4-Dioxane                | 2.996  | 88   | 3220     | 1.727 | ng    | 99       |
| 3) n-Nitrosodimethylamine     | 3.292  | 42   | 2729     | 1.570 | ng    | # 97     |
| 6) bis(2-Chloroethyl)ether    | 6.759  | 93   | 8629     | 1.759 | ng    | 100      |
| 9) Naphthalene                | 10.105 | 128  | 23280    | 1.680 | ng    | 98       |
| 10) Hexachlorobutadiene       | 10.404 | 225  | 5409     | 1.331 | ng    | # 100    |
| 12) 2-Methylnaphthalene       | 11.732 | 142  | 16881    | 1.651 | ng    | 98       |
| 16) Acenaphthylene            | 13.679 | 152  | 27389    | 1.626 | ng    | 99       |
| 17) Acenaphthene              | 14.032 | 154  | 18061    | 1.636 | ng    | 99       |
| 18) Fluorene                  | 15.026 | 166  | 26044    | 1.604 | ng    | 99       |
| 20) 4,6-Dinitro-2-methylph... | 15.122 | 198  | 1947     | 0.983 | ng    | # 69     |
| 21) 4-Bromophenyl-phenylether | 15.941 | 248  | 9493     | 1.566 | ng    | 96       |
| 22) Hexachlorobenzene         | 16.041 | 284  | 10969    | 1.743 | ng    | 100      |
| 23) Atrazine                  | 16.227 | 200  | 6644     | 1.221 | ng    | 96       |
| 24) Pentachlorophenol         | 16.388 | 266  | 4618     | 1.571 | ng    | # 85     |
| 25) Phenanthrene              | 16.773 | 178  | 43698    | 1.745 | ng    | 100      |
| 26) Anthracene                | 16.860 | 178  | 39964    | 1.737 | ng    | 99       |
| 28) Fluoranthene              | 18.813 | 202  | 58605    | 1.702 | ng    | 100      |
| 30) Pyrene                    | 19.180 | 202  | 60164    | 1.824 | ng    | 100      |
| 32) Benzo(a)anthracene        | 20.956 | 228  | 57498    | 1.667 | ng    | 100      |
| 33) Chrysene                  | 21.010 | 228  | 58919    | 1.725 | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 20.929 | 149  | 20598    | 1.138 | ng    | 100      |
| 36) Indeno(1,2,3-cd)pyrene    | 25.105 | 276  | 69517    | 1.665 | ng    | 99       |
| 37) Benzo(b)fluoranthene      | 22.454 | 252  | 76506    | 2.172 | ng    | 95       |
| 38) Benzo(k)fluoranthene      | 22.494 | 252  | 63925    | 1.814 | ng    | # 95     |
| 39) Benzo(a)pyrene            | 22.977 | 252  | 52595    | 1.697 | ng    | # 94     |
| 40) Dibenzo(a,h)anthracene    | 25.126 | 278  | 55068    | 1.664 | ng    | 96       |
| 41) Benzo(g,h,i)perylene      | 25.719 | 276  | 56947    | 1.618 | ng    | 97       |

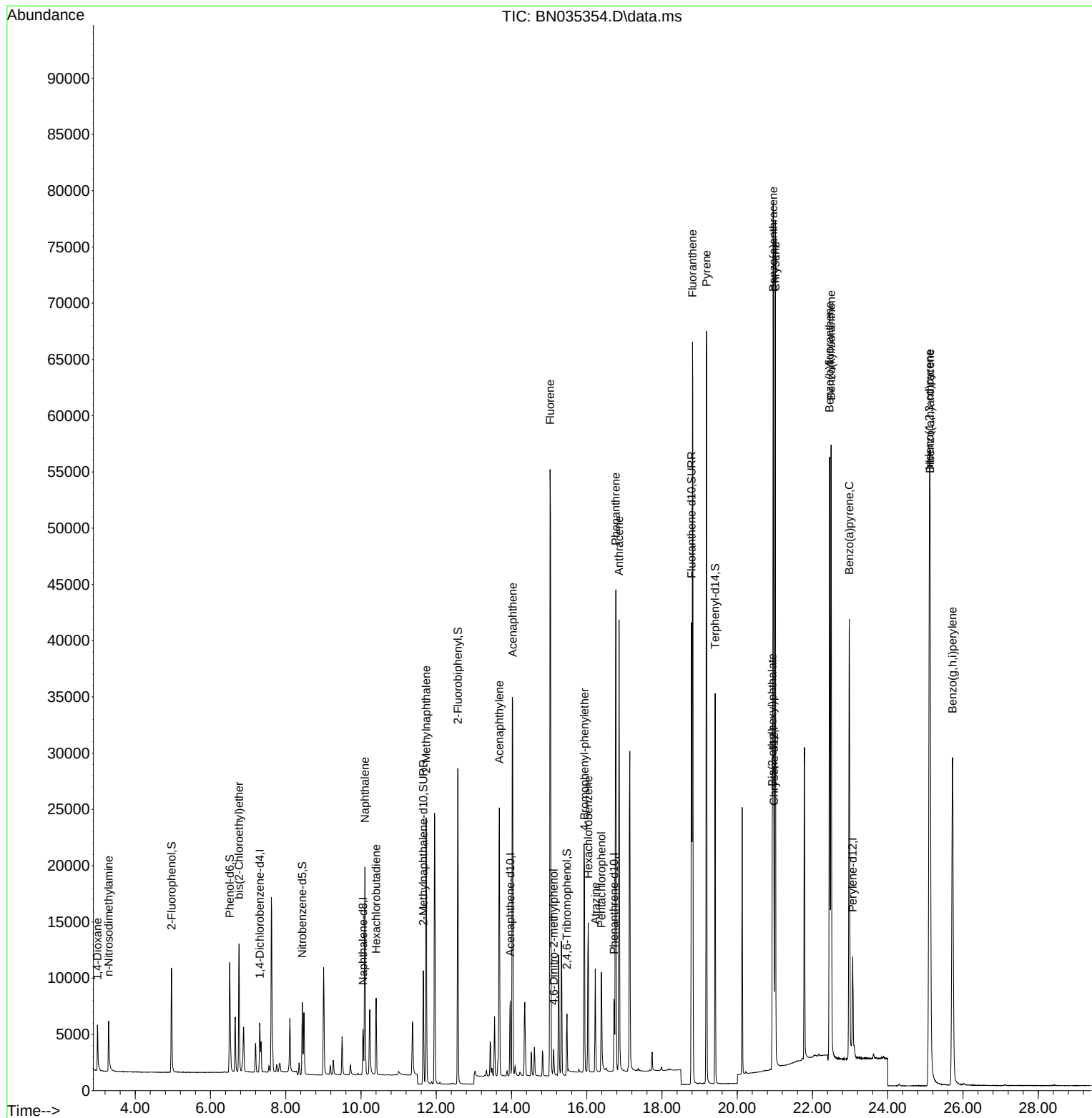
(#) = qualifier out of range (m) = manual integration (+) = signals summed

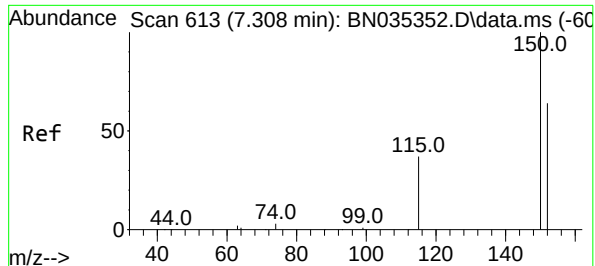


Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112724\  
Data File : BN035354.D  
Acq On : 27 Nov 2024 17:57  
Operator : RC/JU  
Sample : SSTDICC1.6  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

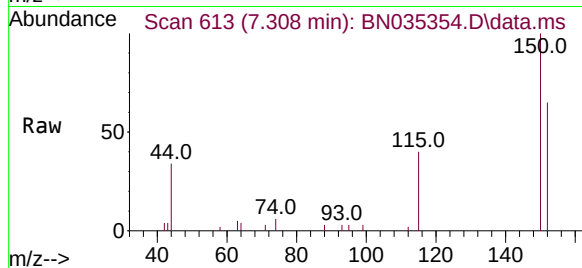
Quant Time: Nov 27 22:53:28 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Nov 27 22:48:24 2024  
Response via : Initial Calibration



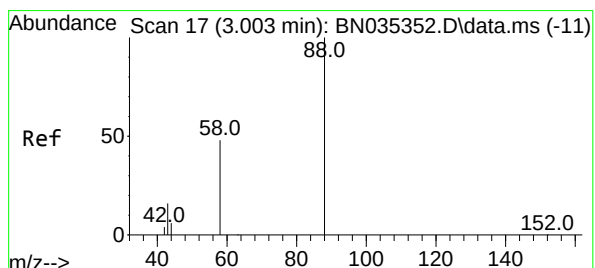
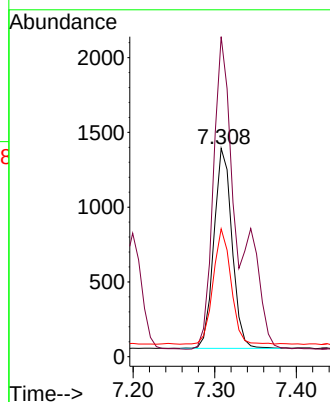


#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.308 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: BN035354.D  
Acq: 27 Nov 2024 17:57

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

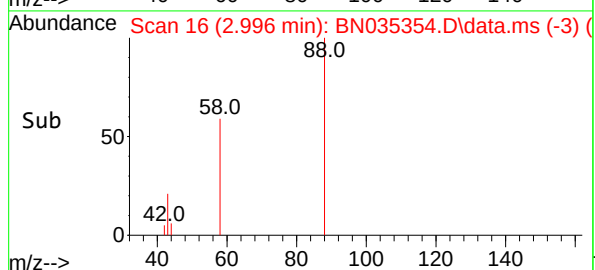
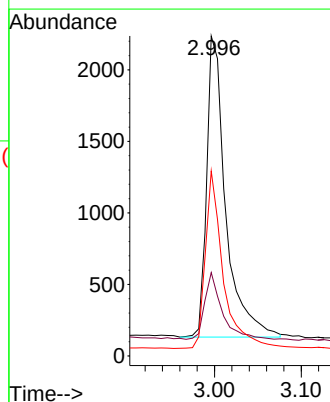
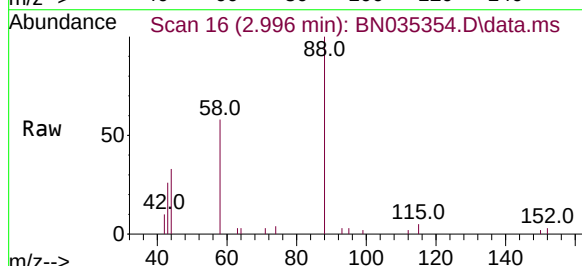


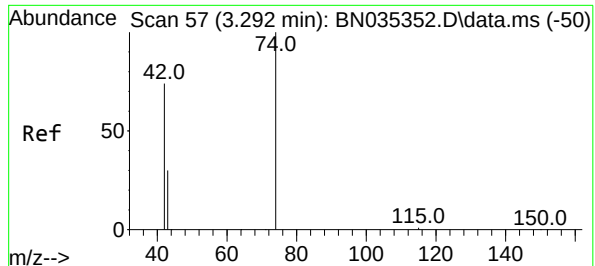
Tgt Ion:152 Resp: 2053  
Ion Ratio Lower Upper  
152 100  
150 153.6 124.0 186.0  
115 61.4 49.6 74.4



#2  
1,4-Dioxane  
Concen: 1.727 ng  
RT: 2.996 min Scan# 16  
Delta R.T. -0.007 min  
Lab File: BN035354.D  
Acq: 27 Nov 2024 17:57

Tgt Ion: 88 Resp: 3220  
Ion Ratio Lower Upper  
88 100  
43 20.3 17.2 25.8  
58 55.1 44.5 66.7

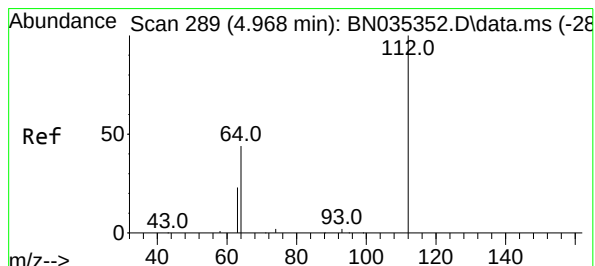
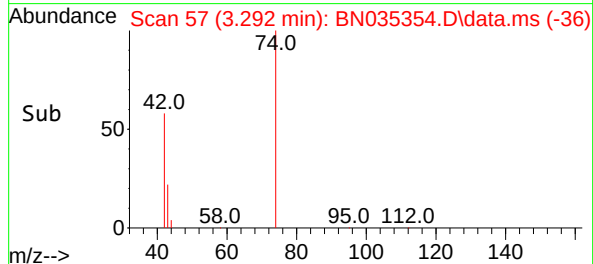
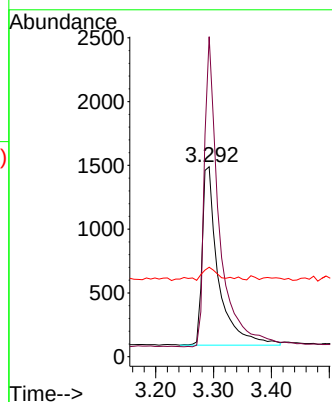
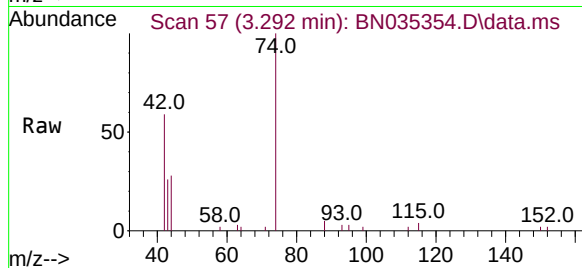




#3  
n-Nitrosodimethylamine  
Concen: 1.570 ng  
RT: 3.292 min Scan# 57  
Delta R.T. 0.000 min  
Lab File: BN035354.D  
Acq: 27 Nov 2024 17:57

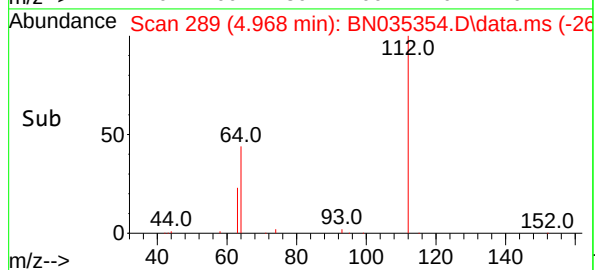
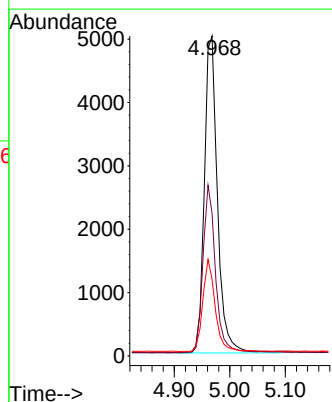
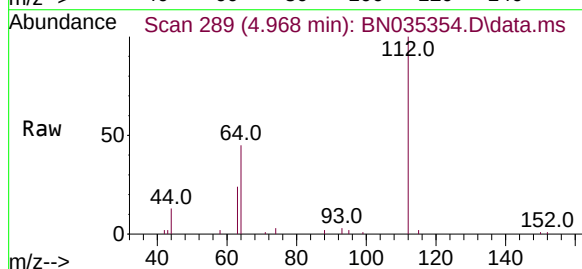
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

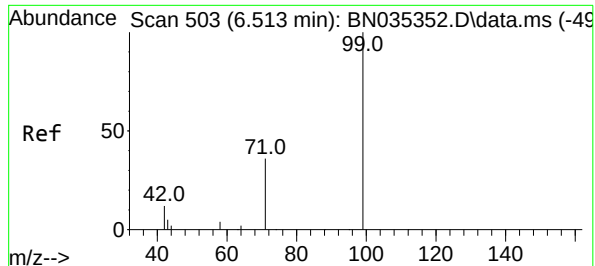
Tgt Ion: 42 Resp: 2729  
Ion Ratio Lower Upper  
42 100  
74 160.4 124.9 187.3  
44 6.2 2.2 3.4#



#4  
2-Fluorophenol  
Concen: 1.572 ng  
RT: 4.968 min Scan# 289  
Delta R.T. 0.000 min  
Lab File: BN035354.D  
Acq: 27 Nov 2024 17:57

Tgt Ion: 112 Resp: 8194  
Ion Ratio Lower Upper  
112 100  
64 50.7 39.8 59.8  
63 27.5 21.0 31.6

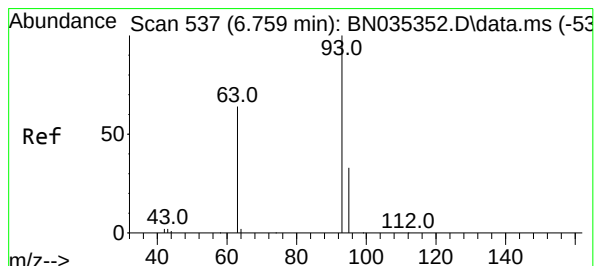
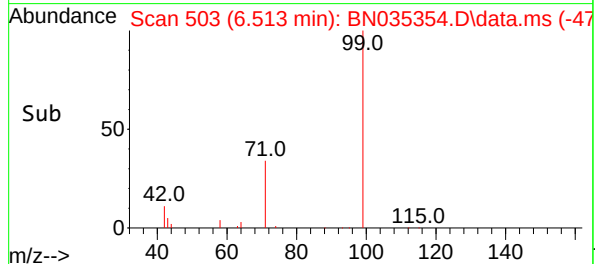
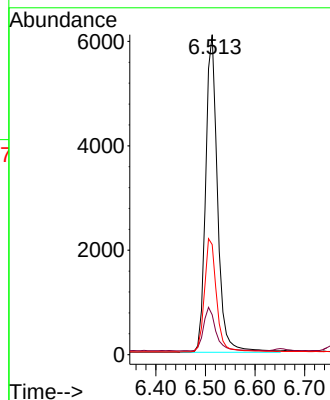
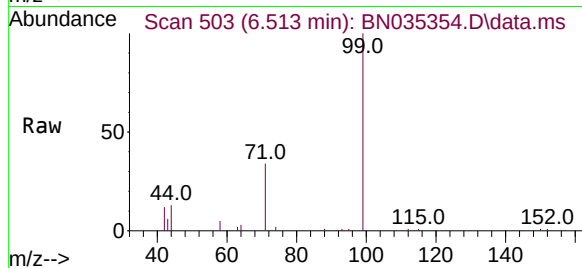




#5  
Phenol-d6  
Concen: 1.552 ng  
RT: 6.513 min Scan# 503  
Delta R.T. 0.000 min  
Lab File: BN035354.D  
Acq: 27 Nov 2024 17:57

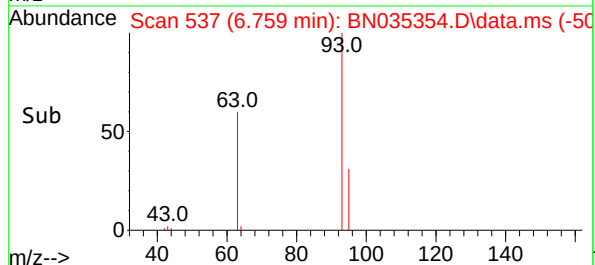
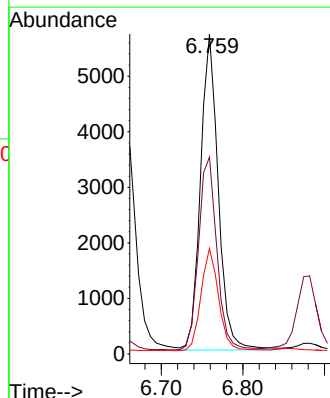
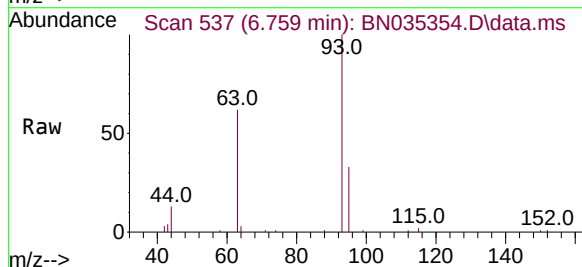
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

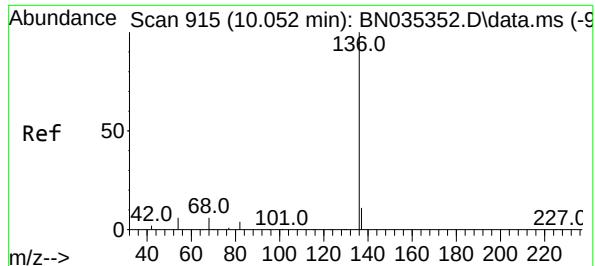
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 99    | Resp: | 10139 |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 14.5  | 11.4  | 17.2  |
| 71       | 36.3  | 29.3  | 43.9  |



#6  
bis(2-Chloroethyl)ether  
Concen: 1.759 ng  
RT: 6.759 min Scan# 537  
Delta R.T. 0.000 min  
Lab File: BN035354.D  
Acq: 27 Nov 2024 17:57

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 93    | Resp: | 8629  |
| Ion      | Ratio | Lower | Upper |
| 93       | 100   |       |       |
| 63       | 62.6  | 50.4  | 75.6  |
| 95       | 32.2  | 25.7  | 38.5  |

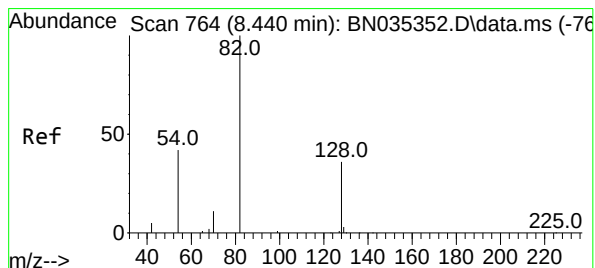
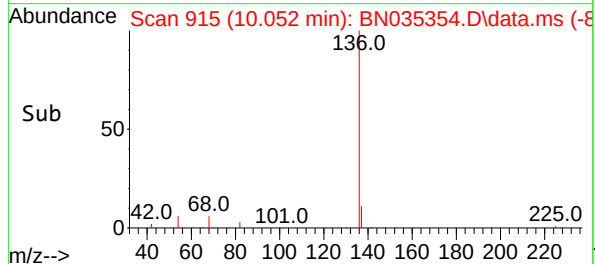
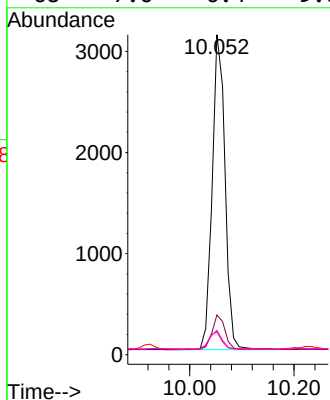
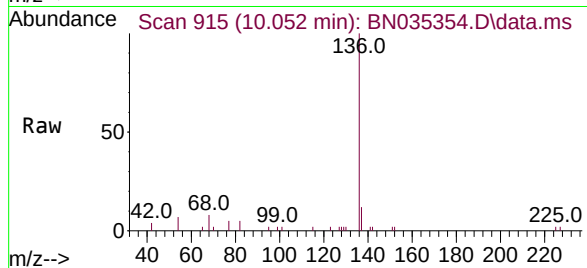




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.052 min Scan# 915  
Delta R.T. 0.000 min  
Lab File: BN035354.D  
Acq: 27 Nov 2024 17:57

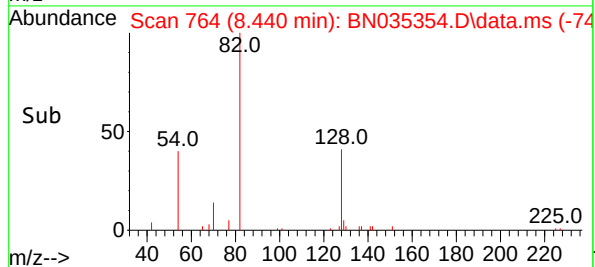
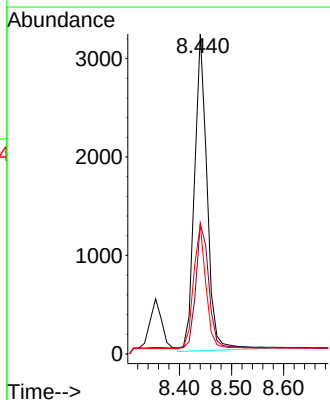
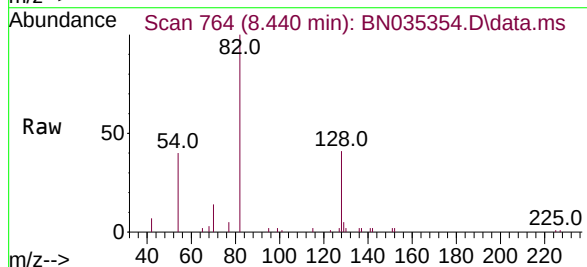
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

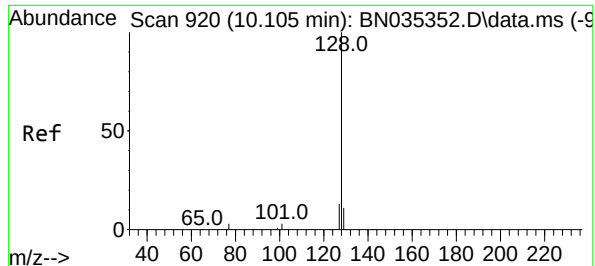
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 5309  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 12.4  | 10.2  | 15.2  |
| 54       | 7.2   | 6.1   | 9.1   |
| 68       | 7.6   | 6.4   | 9.6   |



#8  
Nitrobenzene-d5  
Concen: 1.179 ng  
RT: 8.440 min Scan# 764  
Delta R.T. 0.000 min  
Lab File: BN035354.D  
Acq: 27 Nov 2024 17:57

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 5450  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 40.8  | 33.4  | 50.0  |
| 54       | 40.3  | 36.7  | 55.1  |

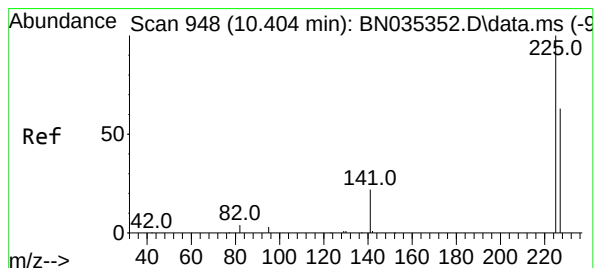
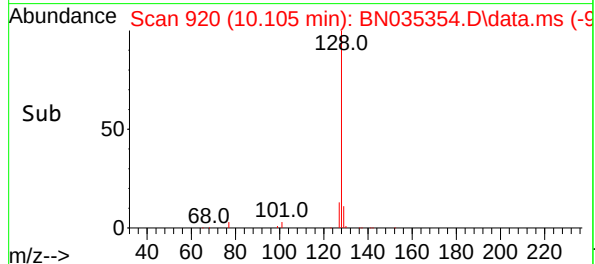
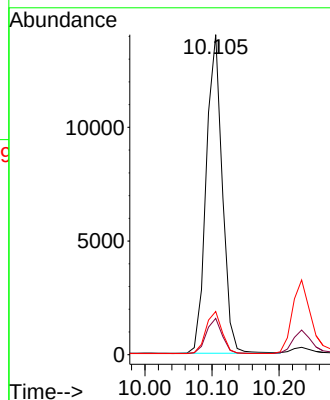
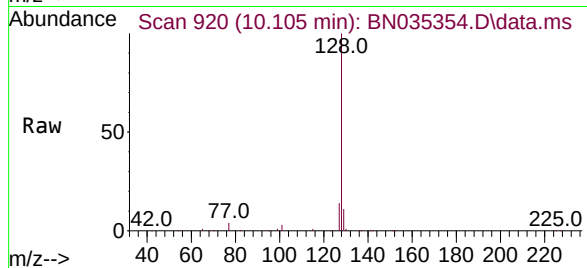




#9  
Naphthalene  
Concen: 1.680 ng  
RT: 10.105 min Scan# 912  
Delta R.T. 0.000 min  
Lab File: BN035354.D  
Acq: 27 Nov 2024 17:57

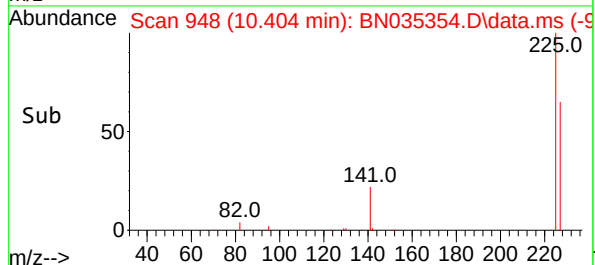
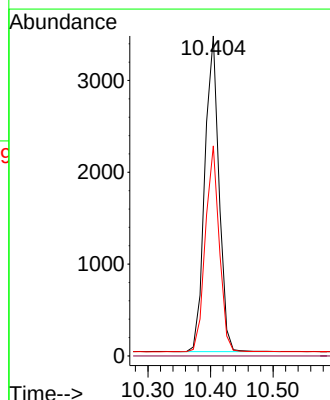
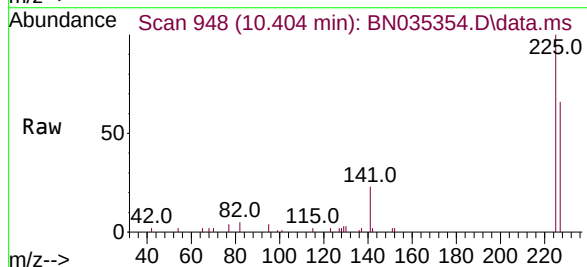
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

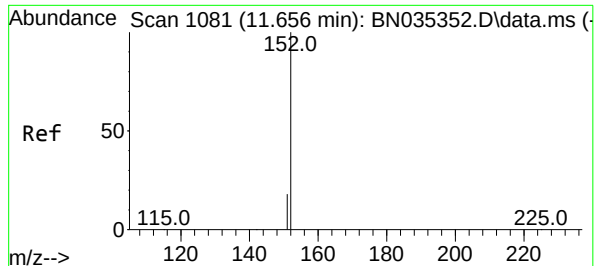
Tgt Ion:128 Resp: 23280  
Ion Ratio Lower Upper  
128 100  
129 11.4 9.8 14.6  
127 13.5 11.4 17.2



#10  
Hexachlorobutadiene  
Concen: 1.331 ng  
RT: 10.404 min Scan# 948  
Delta R.T. 0.000 min  
Lab File: BN035354.D  
Acq: 27 Nov 2024 17:57

Tgt Ion:225 Resp: 5409  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 63.9 51.3 76.9

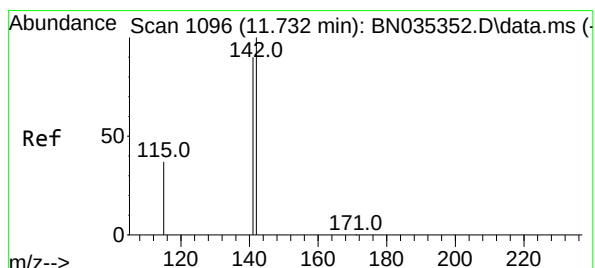
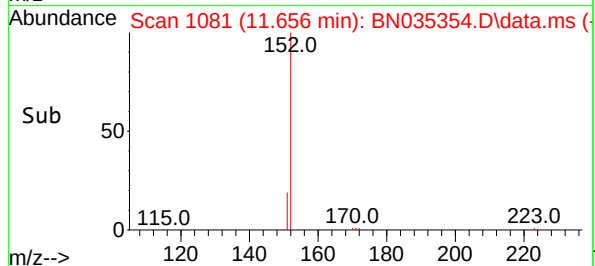
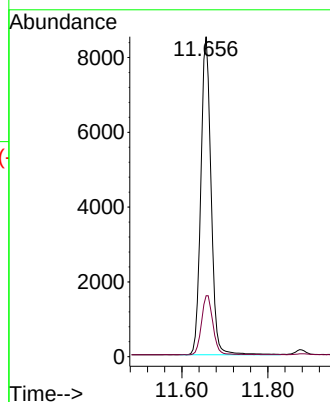
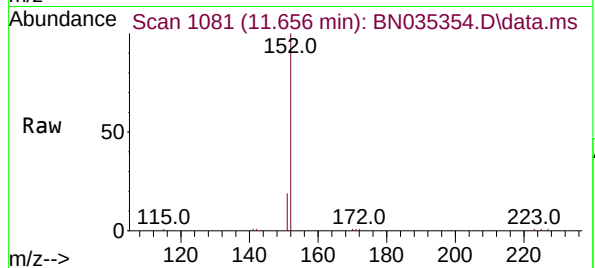




#11  
2-Methylnaphthalene-d10  
Concen: 1.478 ng  
RT: 11.656 min Scan# 1081  
Delta R.T. 0.000 min  
Lab File: BN035354.D  
Acq: 27 Nov 2024 17:57

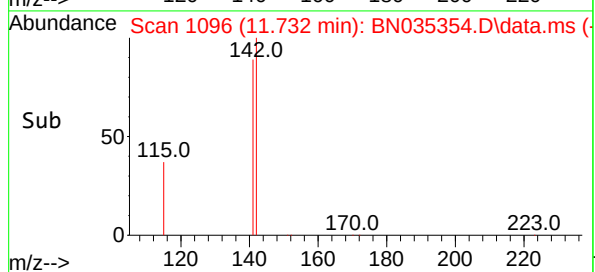
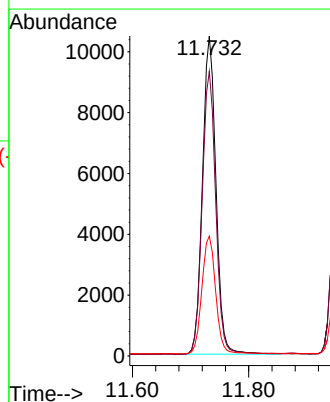
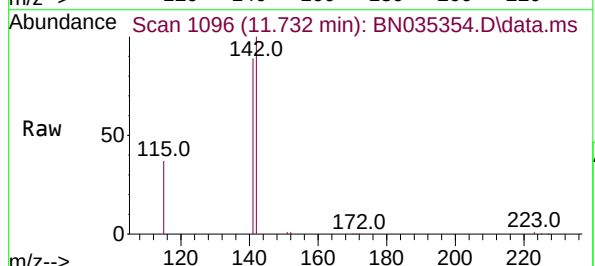
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

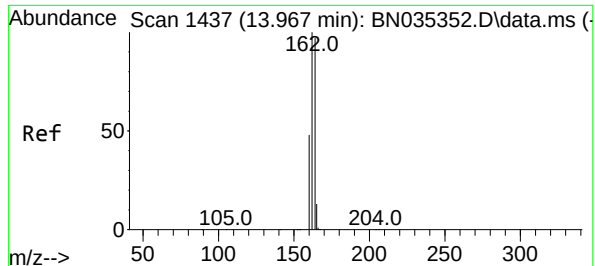
Tgt Ion:152 Resp: 13988  
Ion Ratio Lower Upper  
152 100  
151 20.5 16.6 25.0



#12  
2-Methylnaphthalene  
Concen: 1.651 ng  
RT: 11.732 min Scan# 1096  
Delta R.T. 0.000 min  
Lab File: BN035354.D  
Acq: 27 Nov 2024 17:57

Tgt Ion:142 Resp: 16881  
Ion Ratio Lower Upper  
142 100  
141 89.0 72.2 108.4  
115 37.5 31.4 47.0

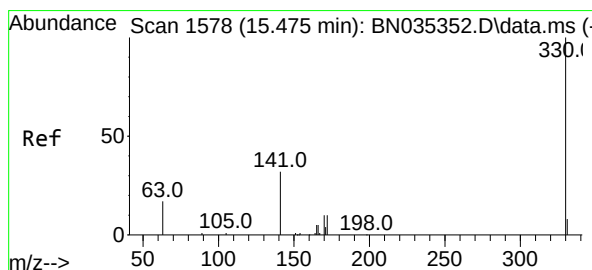
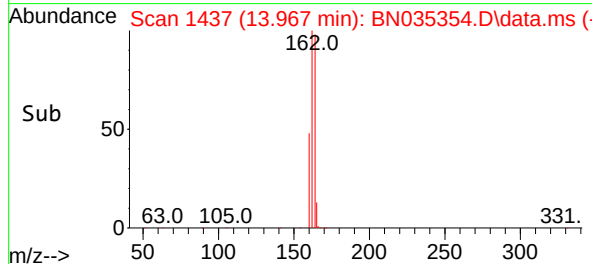
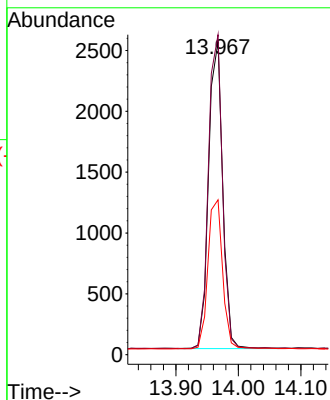
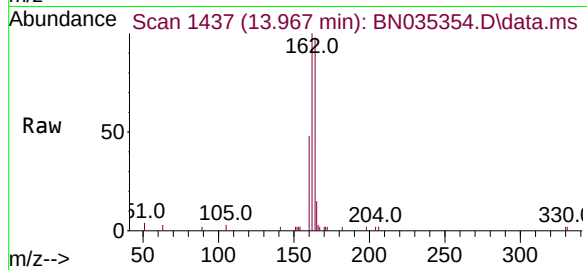




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.967 min Scan# 1437  
Delta R.T. 0.000 min  
Lab File: BN035354.D  
Acq: 27 Nov 2024 17:57

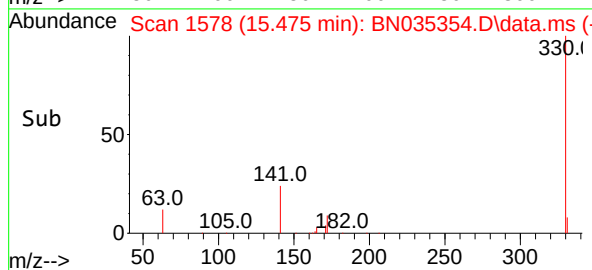
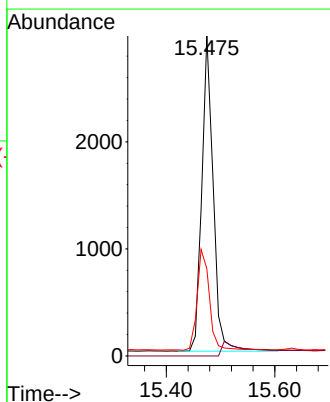
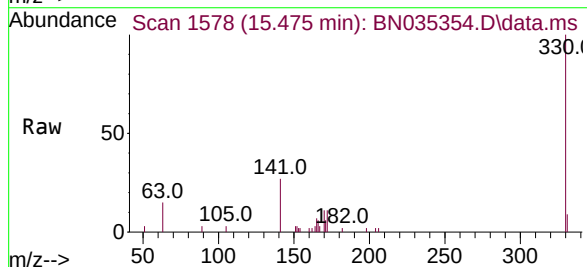
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

Tgt Ion:164 Resp: 3942  
Ion Ratio Lower Upper  
164 100  
162 102.2 82.2 123.2  
160 49.5 40.1 60.1

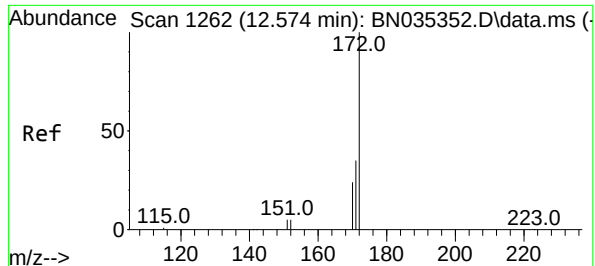


#14  
2,4,6-Tribromophenol  
Concen: 1.623 ng  
RT: 15.475 min Scan# 1578  
Delta R.T. 0.000 min  
Lab File: BN035354.D  
Acq: 27 Nov 2024 17:57

Tgt Ion:330 Resp: 4615  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 33.6 26.6 40.0



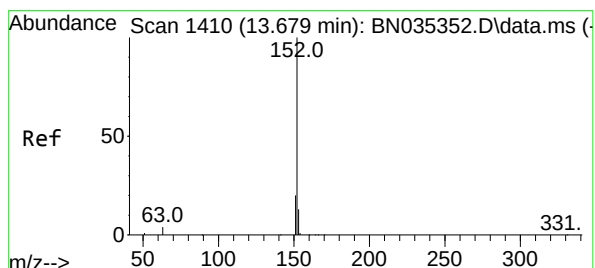
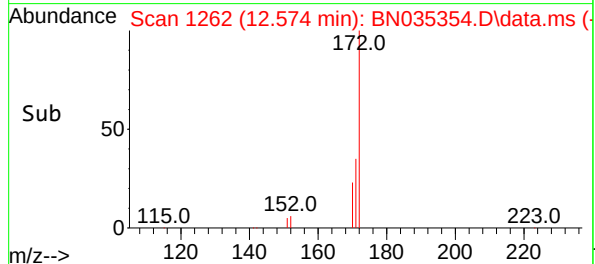
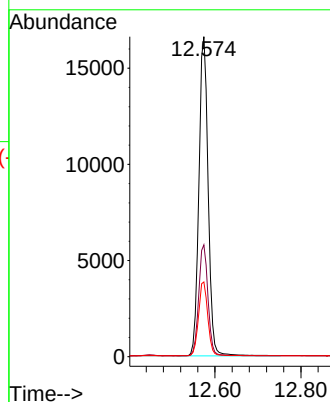
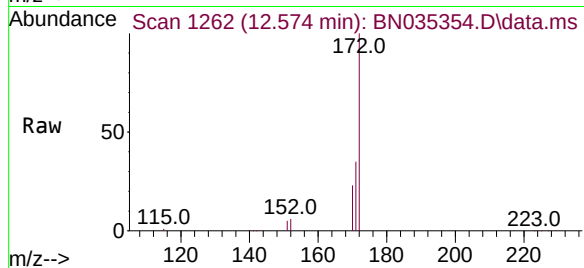




#15  
2-Fluorobiphenyl  
Concen: 1.542 ng  
RT: 12.574 min Scan# 1262  
Delta R.T. 0.000 min  
Lab File: BN035354.D  
Acq: 27 Nov 2024 17:57

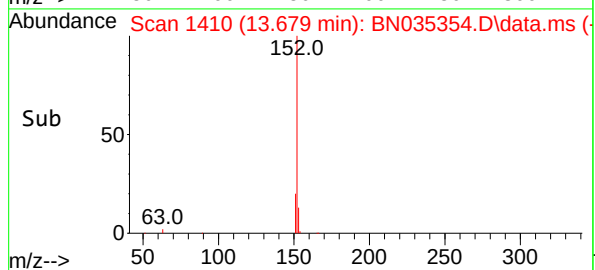
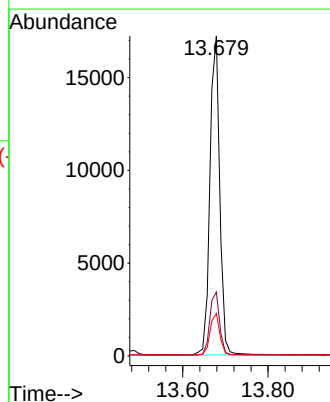
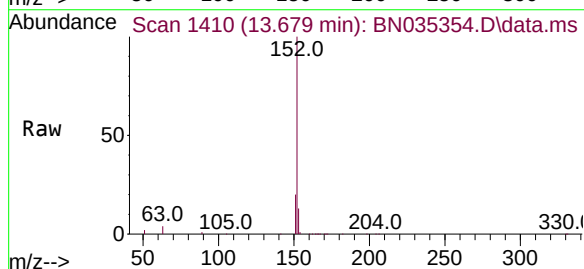
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

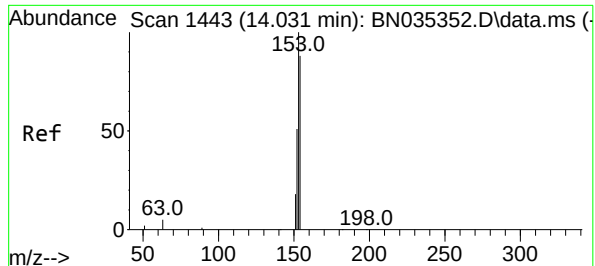
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.0  | 29.0  | 43.4  |
| 170     | 23.4  | 19.8  | 29.8  |



#16  
Acenaphthylene  
Concen: 1.626 ng  
RT: 13.679 min Scan# 1410  
Delta R.T. 0.000 min  
Lab File: BN035354.D  
Acq: 27 Nov 2024 17:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 19.8  | 16.2  | 24.2  |
| 153     | 13.0  | 10.4  | 15.6  |

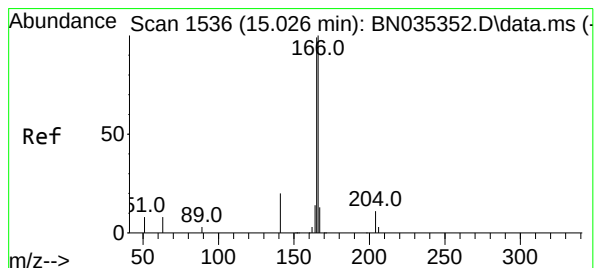
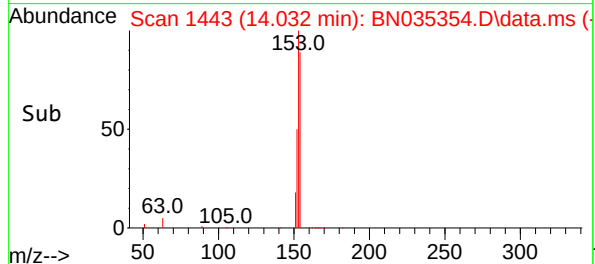
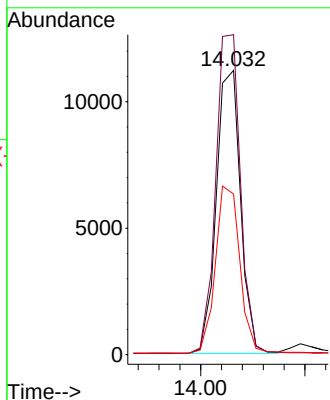
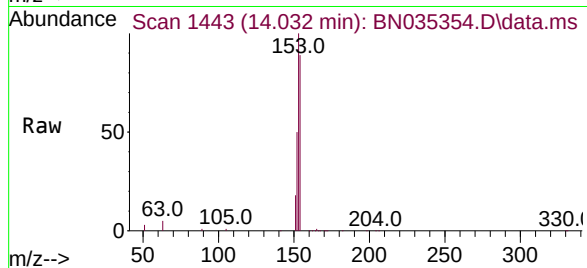




#17  
Acenaphthene  
Concen: 1.636 ng  
RT: 14.032 min Scan# 1443  
Delta R.T. 0.000 min  
Lab File: BN035354.D  
Acq: 27 Nov 2024 17:57

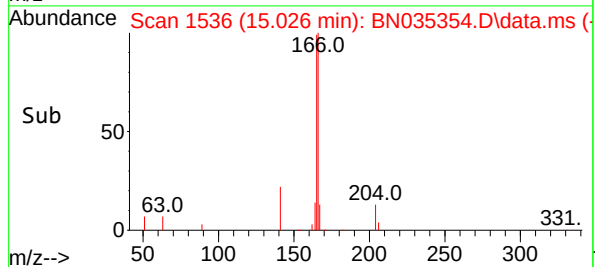
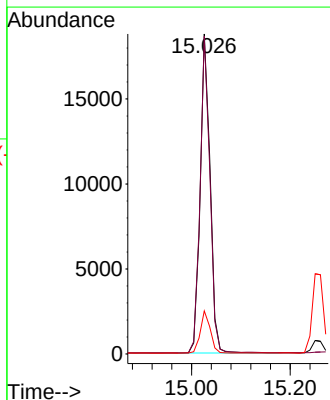
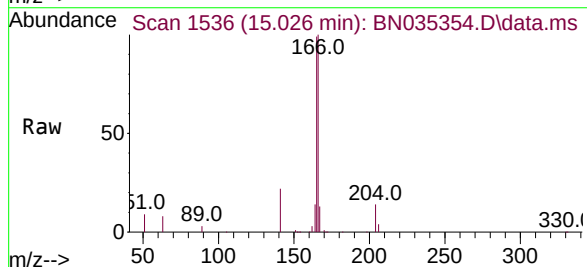
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

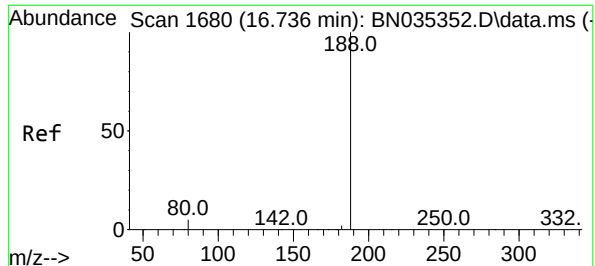
Tgt Ion:154 Resp: 18061  
Ion Ratio Lower Upper  
154 100  
153 115.1 92.6 139.0  
152 59.9 49.0 73.6



#18  
Fluorene  
Concen: 1.604 ng  
RT: 15.026 min Scan# 1536  
Delta R.T. 0.000 min  
Lab File: BN035354.D  
Acq: 27 Nov 2024 17:57

Tgt Ion:166 Resp: 26044  
Ion Ratio Lower Upper  
166 100  
165 98.2 79.7 119.5  
167 13.3 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.723 min Scan# 1

Delta R.T. -0.012 min

Lab File: BN035354.D

Acq: 27 Nov 2024 17:57

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6

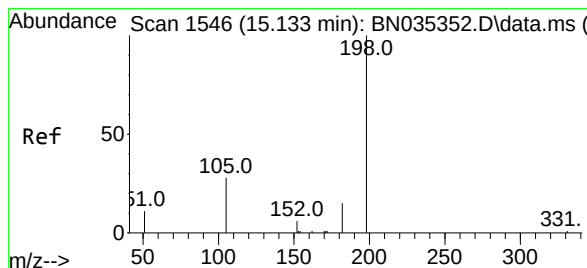
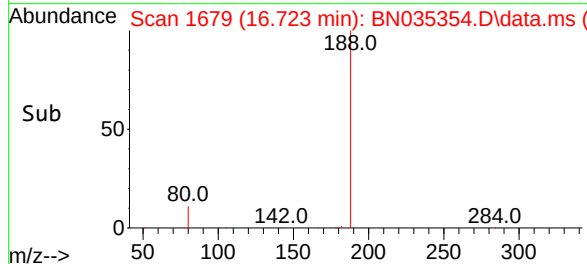
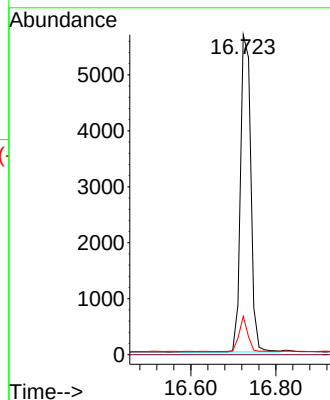
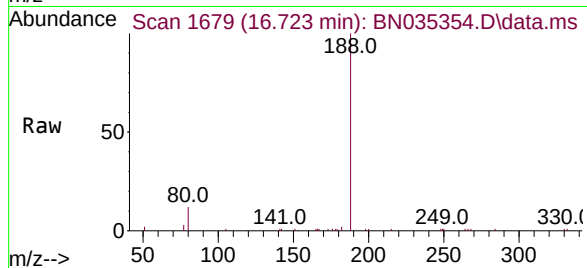
Tgt Ion:188 Resp: 9517

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 12.0 4.6 6.8#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.983 ng

RT: 15.122 min Scan# 1545

Delta R.T. -0.011 min

Lab File: BN035354.D

Acq: 27 Nov 2024 17:57

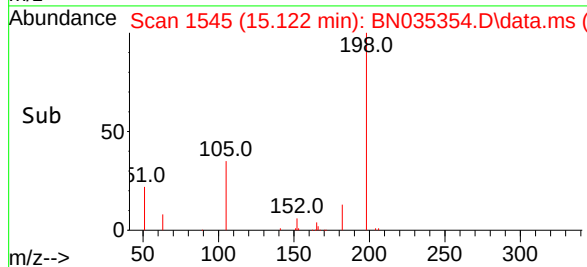
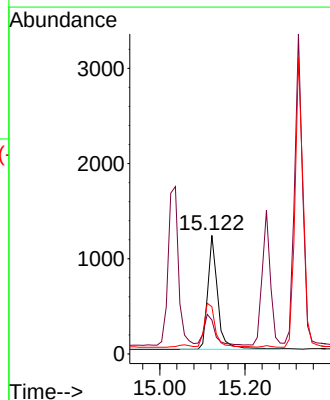
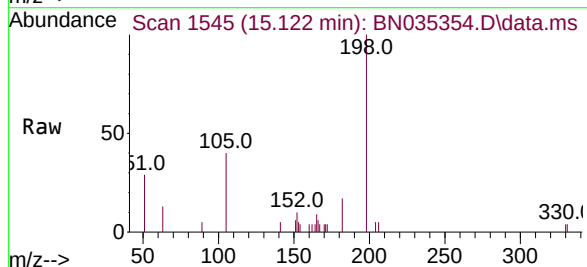
Tgt Ion:198 Resp: 1947

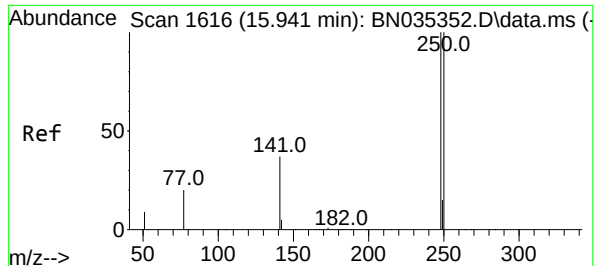
Ion Ratio Lower Upper

198 100

51 28.6 46.5 69.7#

105 39.8 45.3 67.9#

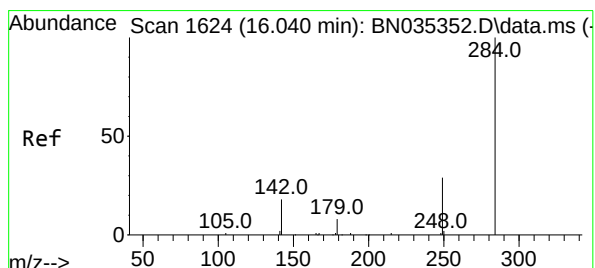
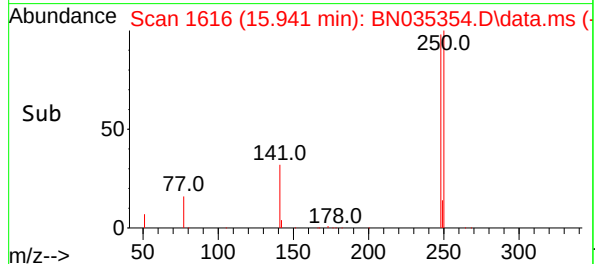
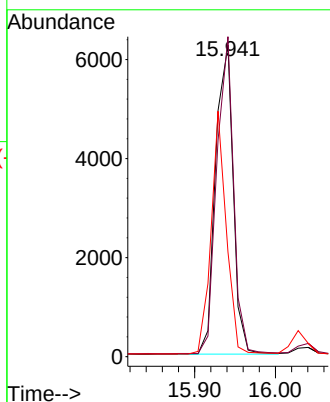
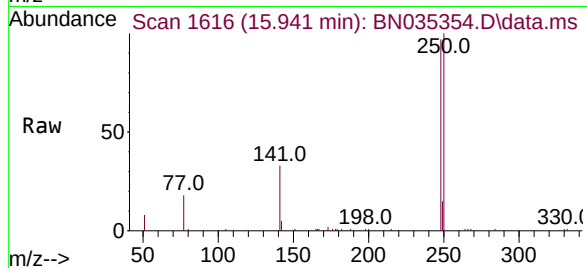




#21  
4-Bromophenyl-phenylether  
Concen: 1.566 ng  
RT: 15.941 min Scan# 1616  
Delta R.T. 0.000 min  
Lab File: BN035354.D  
Acq: 27 Nov 2024 17:57

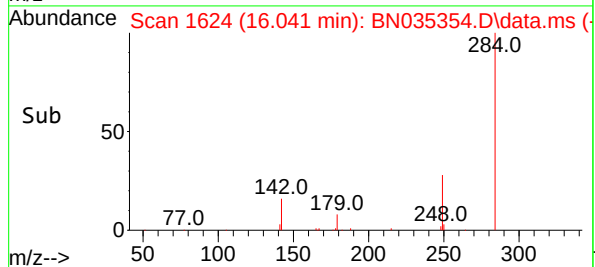
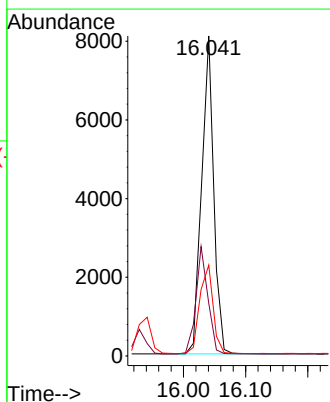
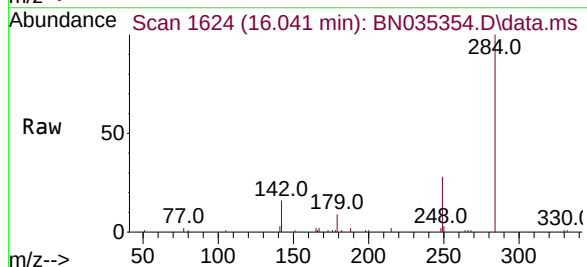
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

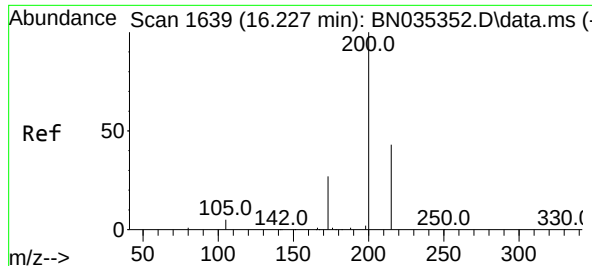
| Tgt Ion   | 248  | 250   | 141  |
|-----------|------|-------|------|
| Resp:     | 9493 |       |      |
| Ion Ratio | 100  | 102.7 | 33.7 |
| Lower     |      | 80.6  | 31.5 |
| Upper     |      | 120.8 | 47.3 |



#22  
Hexachlorobenzene  
Concen: 1.743 ng  
RT: 16.041 min Scan# 1624  
Delta R.T. 0.000 min  
Lab File: BN035354.D  
Acq: 27 Nov 2024 17:57

| Tgt Ion   | 284   | 142  | 249  |
|-----------|-------|------|------|
| Resp:     | 10969 |      |      |
| Ion Ratio | 100   | 33.5 | 30.6 |
| Lower     |       | 26.7 | 24.6 |
| Upper     |       | 40.1 | 36.8 |

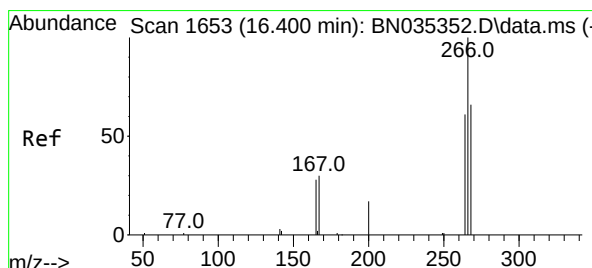
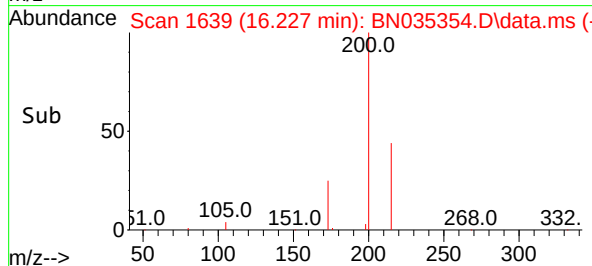
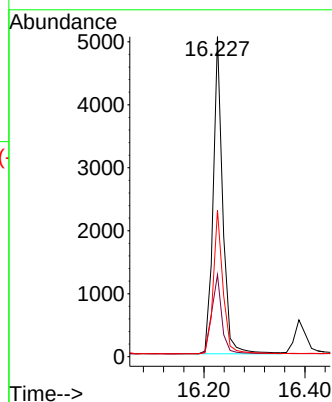
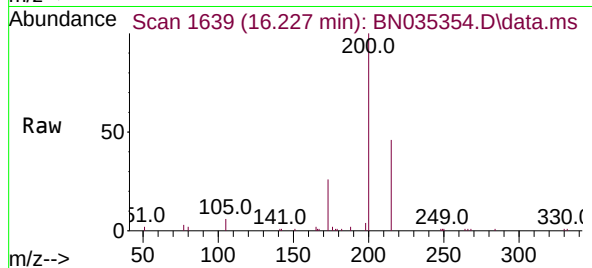




#23  
Atrazine  
Concen: 1.221 ng  
RT: 16.227 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: BN035354.D  
Acq: 27 Nov 2024 17:57

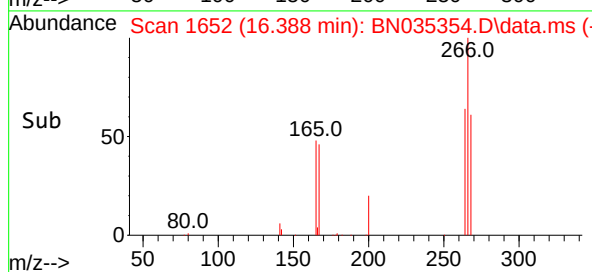
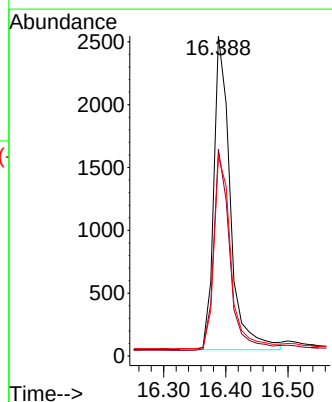
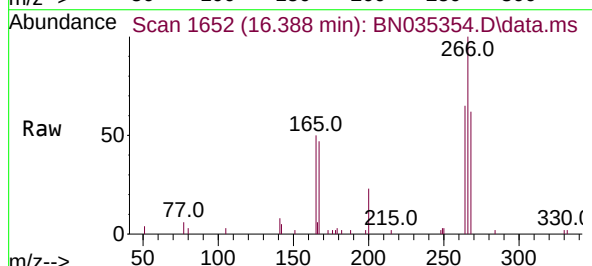
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

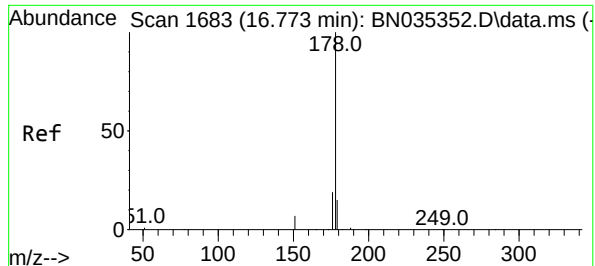
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 200     | 100   |       |       |
| 173     | 25.6  | 24.1  | 36.1  |
| 215     | 45.8  | 36.9  | 55.3  |



#24  
Pentachlorophenol  
Concen: 1.571 ng  
RT: 16.388 min Scan# 1652  
Delta R.T. -0.012 min  
Lab File: BN035354.D  
Acq: 27 Nov 2024 17:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 266     | 100   |       |       |
| 264     | 64.8  | 42.3  | 63.5# |
| 268     | 62.9  | 43.3  | 64.9  |





#25

Phenanthrene

Concen: 1.745 ng

RT: 16.773 min Scan# 1683

Delta R.T. 0.000 min

Lab File: BN035354.D

Acq: 27 Nov 2024 17:57

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6

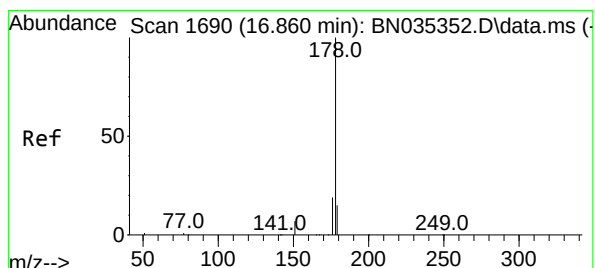
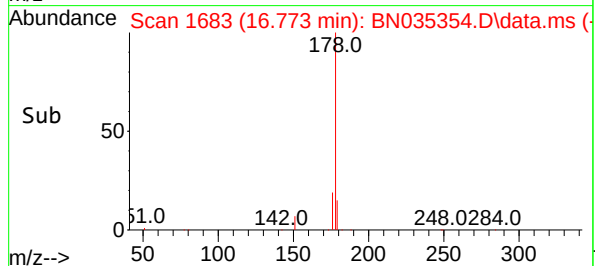
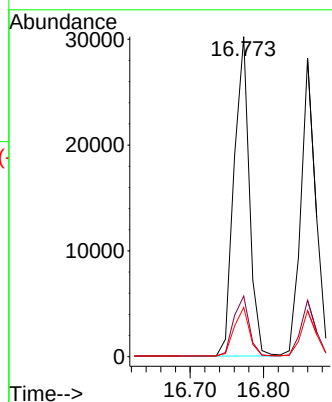
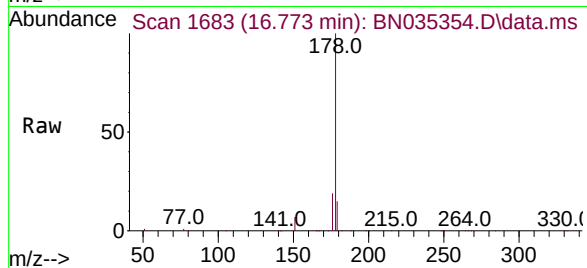
Tgt Ion:178 Resp: 43698

Ion Ratio Lower Upper

178 100

176 19.2 15.4 23.2

179 15.2 12.3 18.5



#26

Anthracene

Concen: 1.737 ng

RT: 16.860 min Scan# 1690

Delta R.T. 0.000 min

Lab File: BN035354.D

Acq: 27 Nov 2024 17:57

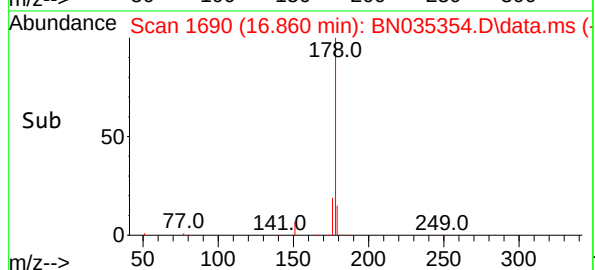
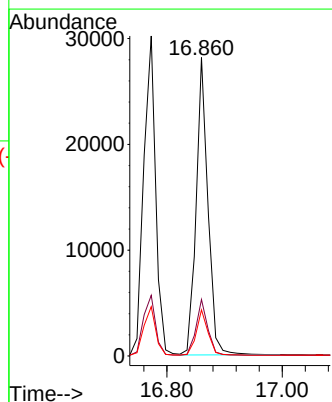
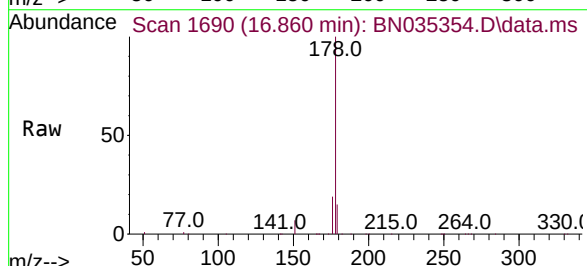
Tgt Ion:178 Resp: 39964

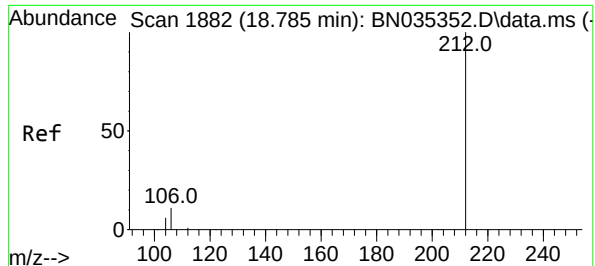
Ion Ratio Lower Upper

178 100

176 18.7 15.0 22.6

179 15.3 12.6 18.8

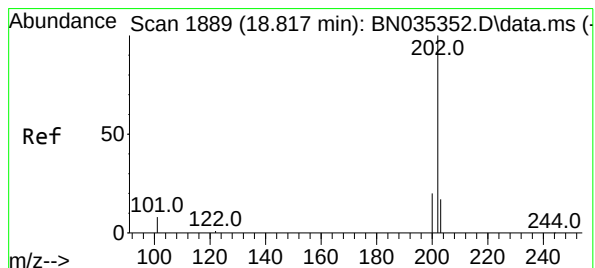
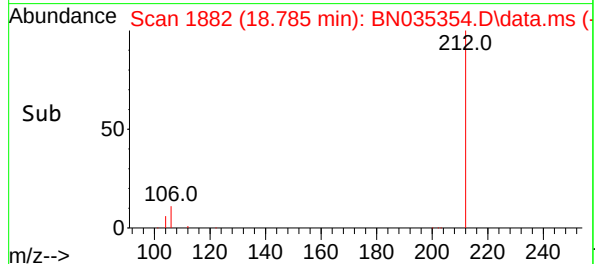
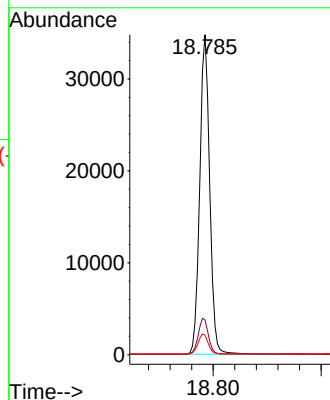
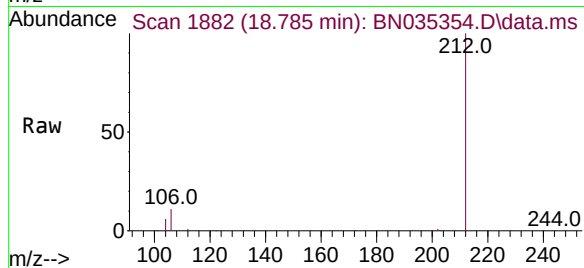




#27  
Fluoranthene-d10  
Concen: 1.521 ng  
RT: 18.785 min Scan# 1882  
Delta R.T. 0.000 min  
Lab File: BN035354.D  
Acq: 27 Nov 2024 17:57

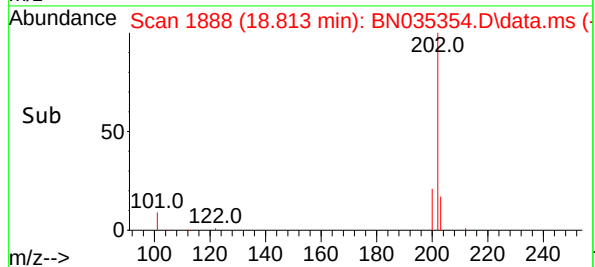
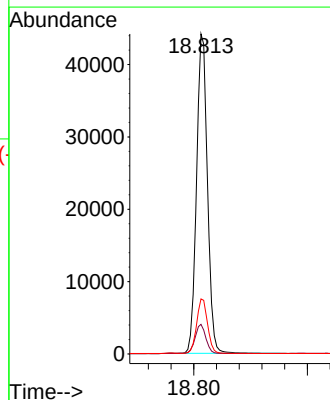
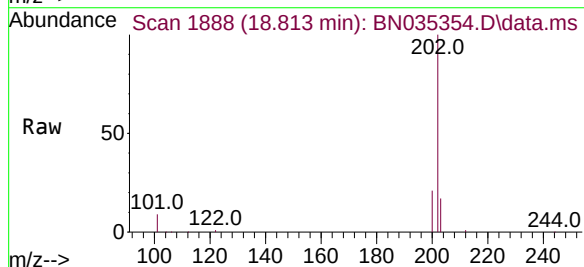
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

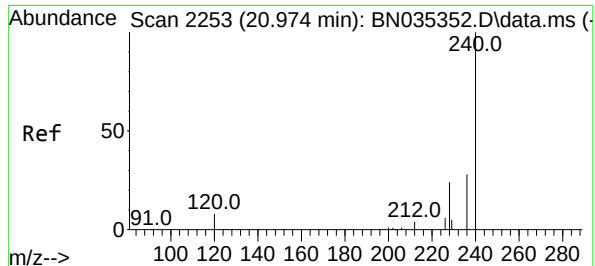
Tgt Ion:212 Resp: 44338  
Ion Ratio Lower Upper  
212 100  
106 11.4 9.2 13.8  
104 6.4 5.3 7.9



#28  
Fluoranthene  
Concen: 1.702 ng  
RT: 18.813 min Scan# 1888  
Delta R.T. -0.005 min  
Lab File: BN035354.D  
Acq: 27 Nov 2024 17:57

Tgt Ion:202 Resp: 58605  
Ion Ratio Lower Upper  
202 100  
101 9.2 7.4 11.0  
203 17.1 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.974 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN035354.D

Acq: 27 Nov 2024 17:57

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6

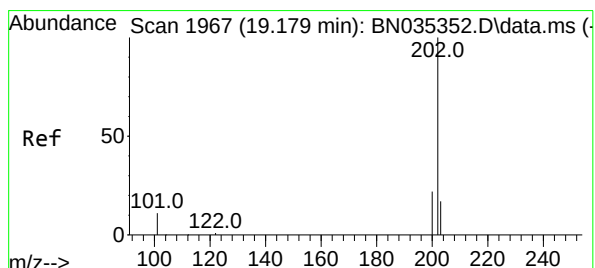
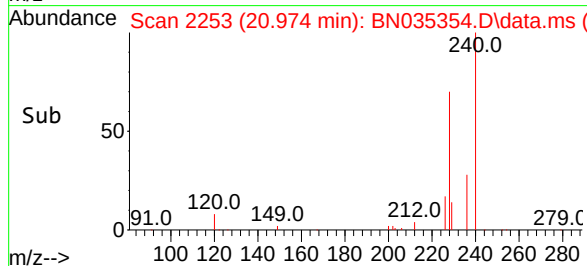
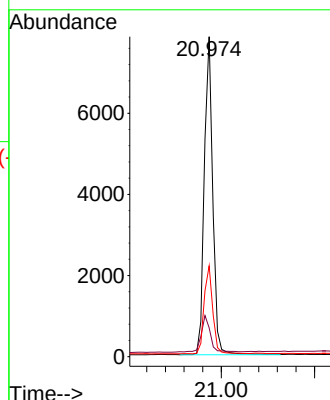
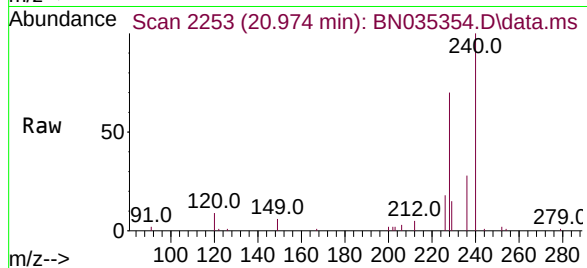
Tgt Ion:240 Resp: 9905

Ion Ratio Lower Upper

240 100

120 9.0 7.9 11.9

236 28.4 22.9 34.3



#30

Pyrene

Concen: 1.824 ng

RT: 19.180 min Scan# 1967

Delta R.T. 0.000 min

Lab File: BN035354.D

Acq: 27 Nov 2024 17:57

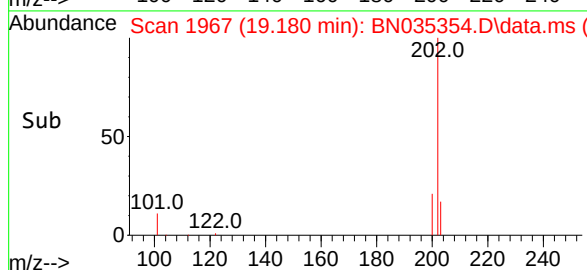
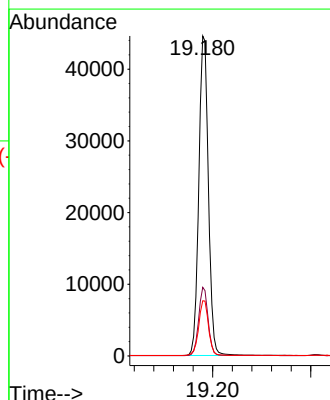
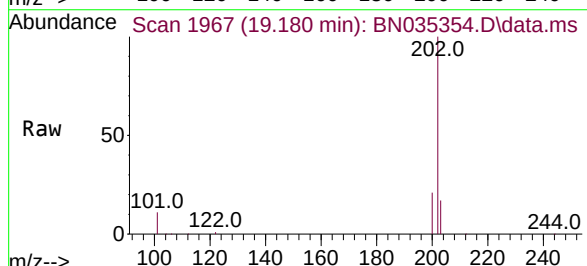
Tgt Ion:202 Resp: 60164

Ion Ratio Lower Upper

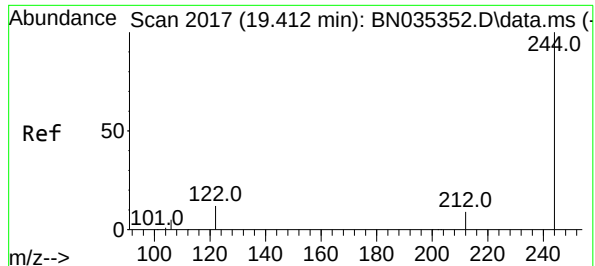
202 100

200 21.1 17.0 25.4

203 17.7 14.3 21.5



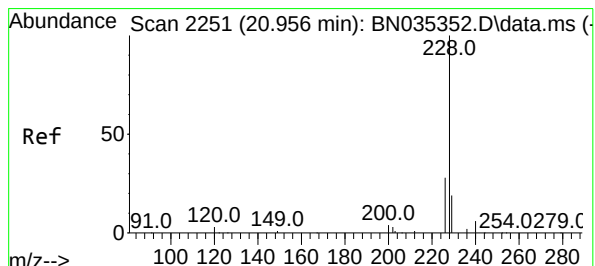
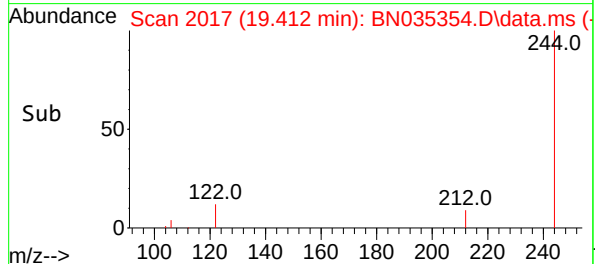
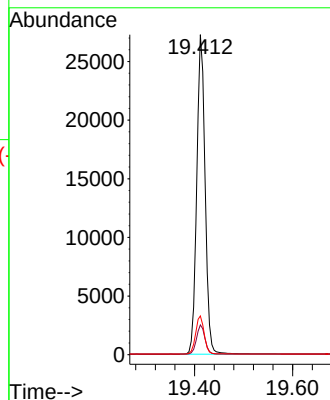
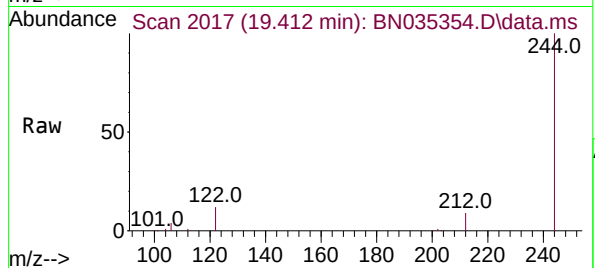




#31  
Terphenyl-d14  
Concen: 1.548 ng  
RT: 19.412 min Scan# 2017  
Delta R.T. 0.000 min  
Lab File: BN035354.D  
Acq: 27 Nov 2024 17:57

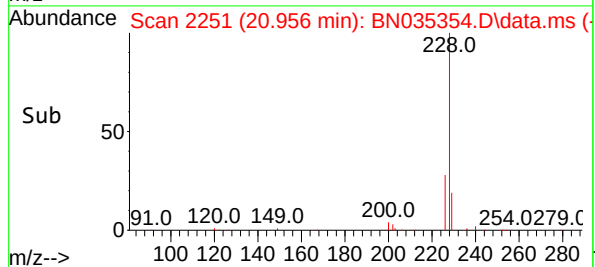
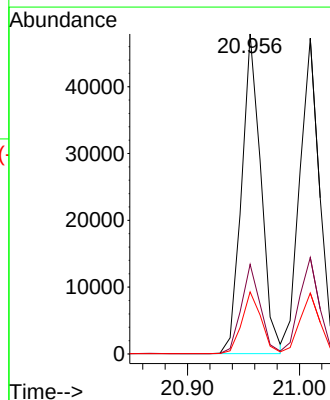
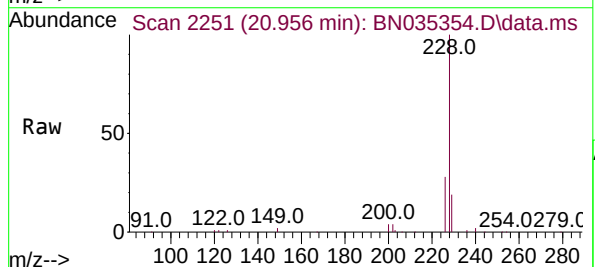
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

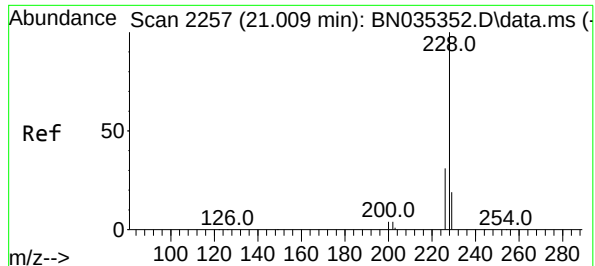
Tgt Ion:244 Resp: 32174  
Ion Ratio Lower Upper  
244 100  
212 9.3 8.1 12.1  
122 12.1 10.3 15.5



#32  
Benzo(a)anthracene  
Concen: 1.667 ng  
RT: 20.956 min Scan# 2251  
Delta R.T. 0.000 min  
Lab File: BN035354.D  
Acq: 27 Nov 2024 17:57

Tgt Ion:228 Resp: 57498  
Ion Ratio Lower Upper  
228 100  
226 28.0 22.5 33.7  
229 19.4 15.8 23.8





#33

Chrysene

Concen: 1.725 ng

RT: 21.010 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN035354.D

Acq: 27 Nov 2024 17:57

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6

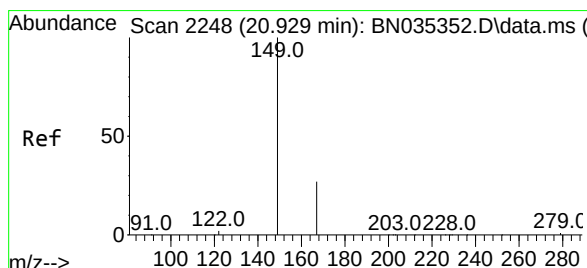
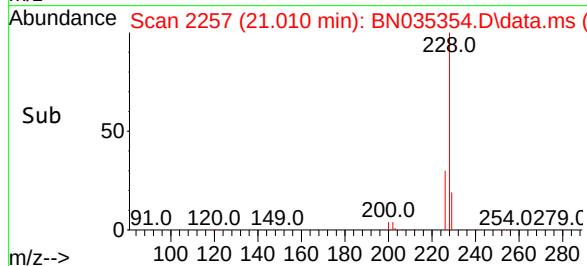
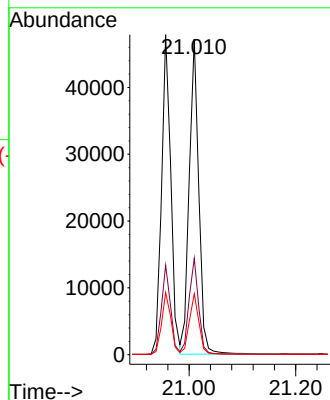
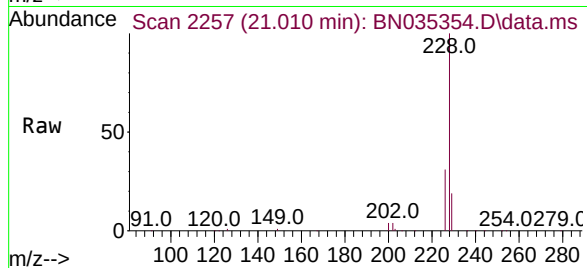
Tgt Ion:228 Resp: 58919

Ion Ratio Lower Upper

228 100

226 30.6 24.6 37.0

229 19.3 15.9 23.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 1.138 ng

RT: 20.929 min Scan# 2248

Delta R.T. 0.000 min

Lab File: BN035354.D

Acq: 27 Nov 2024 17:57

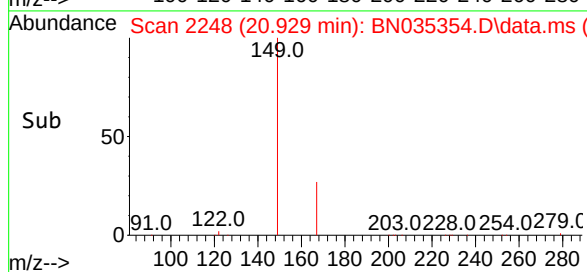
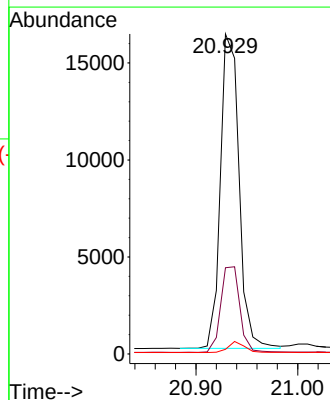
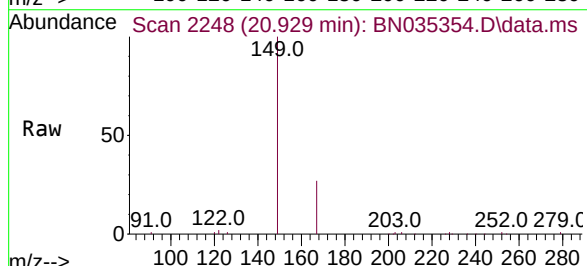
Tgt Ion:149 Resp: 20598

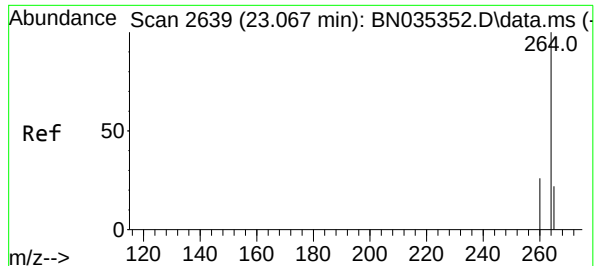
Ion Ratio Lower Upper

149 100

167 28.0 22.2 33.4

279 3.2 2.7 4.1





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.067 min Scan# 2

Delta R.T. 0.000 min

Lab File: BN035354.D

Acq: 27 Nov 2024 17:57

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6

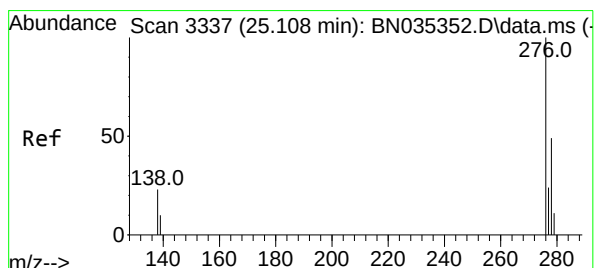
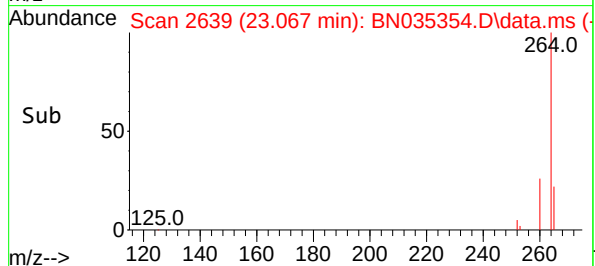
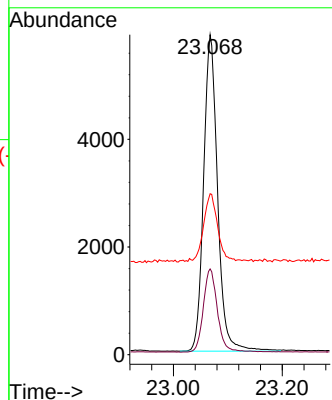
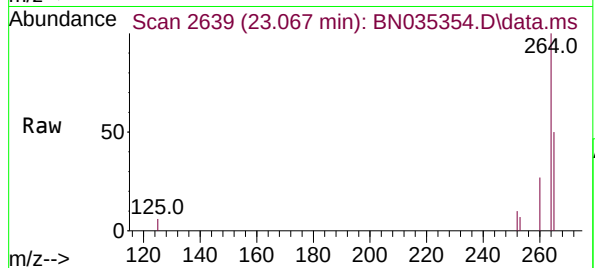
Tgt Ion:264 Resp: 10469

Ion Ratio Lower Upper

264 100

260 26.8 21.4 32.2

265 50.3 40.2 60.4



#36

Indeno(1,2,3-cd)pyrene

Concen: 1.665 ng

RT: 25.105 min Scan# 3336

Delta R.T. -0.003 min

Lab File: BN035354.D

Acq: 27 Nov 2024 17:57

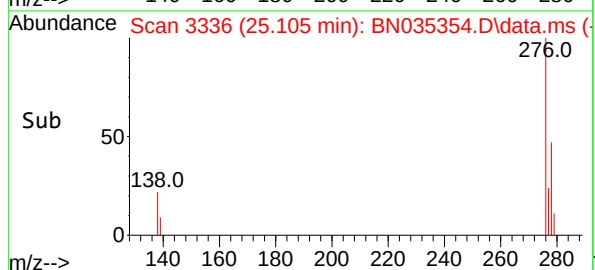
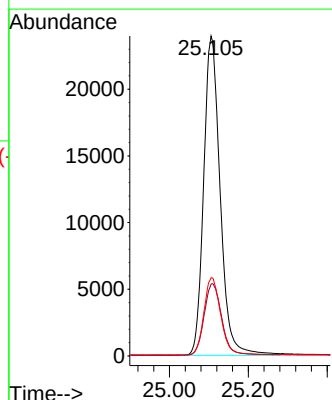
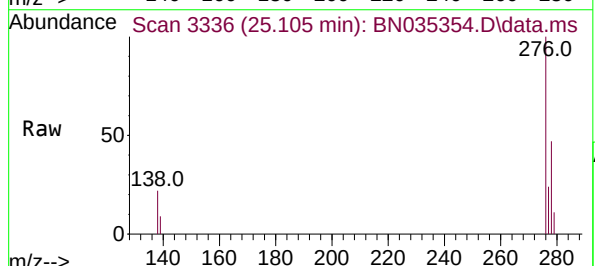
Tgt Ion:276 Resp: 69517

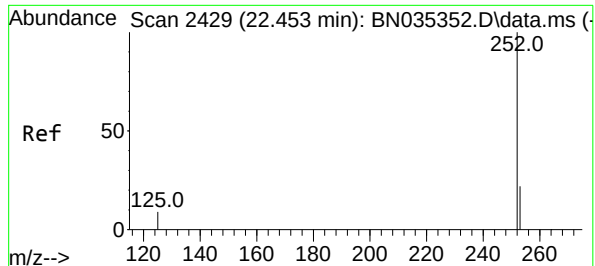
Ion Ratio Lower Upper

276 100

138 23.7 19.4 29.0

277 24.8 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 2.172 ng

RT: 22.454 min Scan# 2429

Delta R.T. 0.000 min

Lab File: BN035354.D

Acq: 27 Nov 2024 17:57

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6

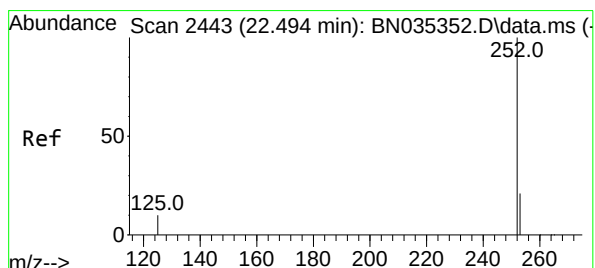
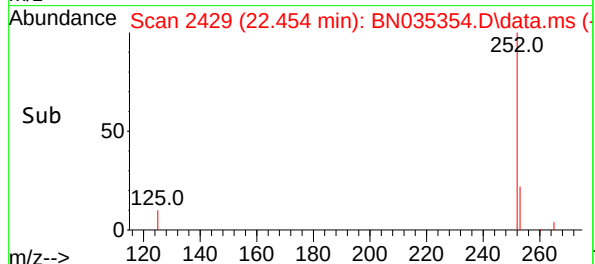
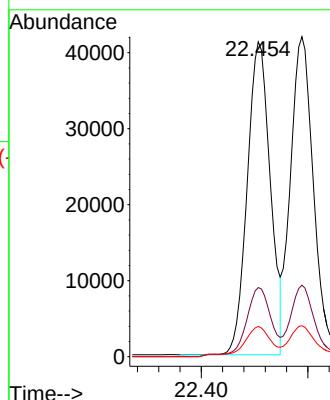
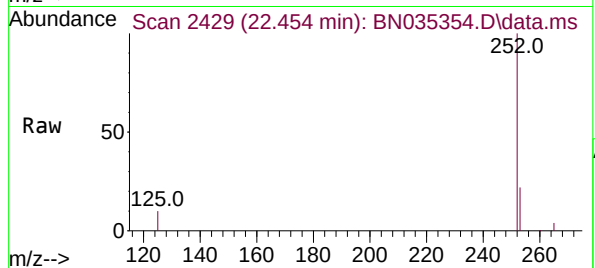
Tgt Ion:252 Resp: 76506

Ion Ratio Lower Upper

252 100

253 22.0 19.6 29.4

125 9.6 9.6 14.4



#38

Benzo(k)fluoranthene

Concen: 1.814 ng

RT: 22.494 min Scan# 2443

Delta R.T. 0.000 min

Lab File: BN035354.D

Acq: 27 Nov 2024 17:57

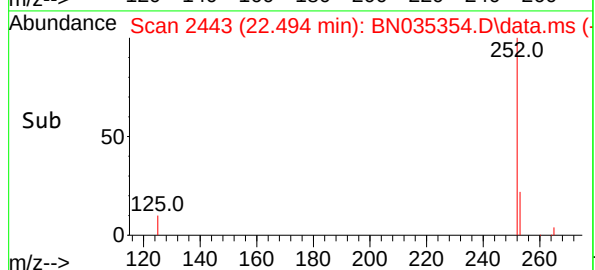
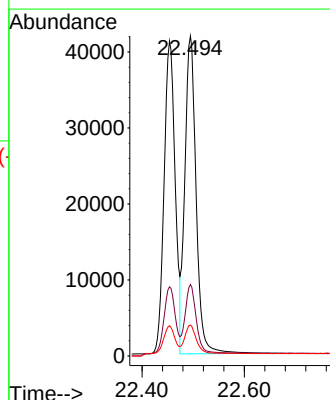
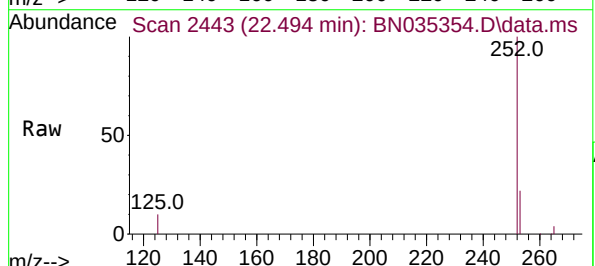
Tgt Ion:252 Resp: 63925

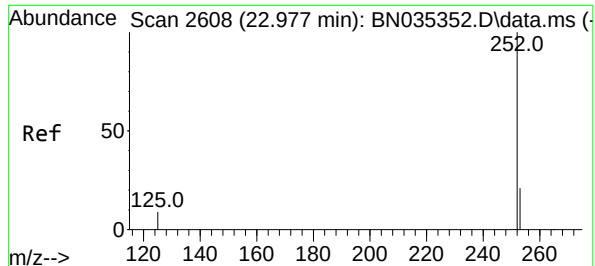
Ion Ratio Lower Upper

252 100

253 22.3 19.5 29.3

125 9.7 10.2 15.4#





#39

Benzo(a)pyrene

Concen: 1.697 ng

RT: 22.977 min Scan# 2608

Delta R.T. 0.000 min

Lab File: BN035354.D

Acq: 27 Nov 2024 17:57

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6

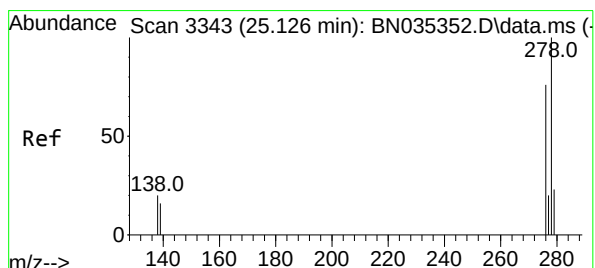
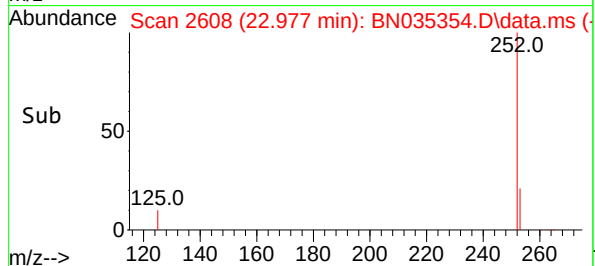
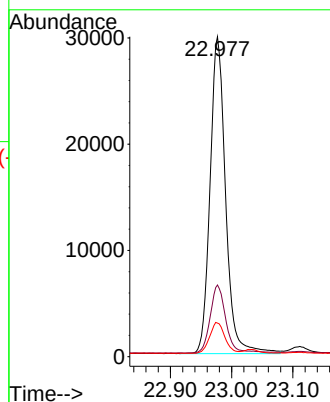
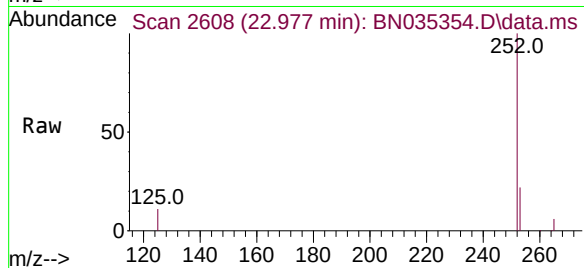
Tgt Ion:252 Resp: 52595

Ion Ratio Lower Upper

252 100

253 22.4 20.2 30.4

125 10.5 10.9 16.3#



#40

Dibenzo(a,h)anthracene

Concen: 1.664 ng

RT: 25.126 min Scan# 3343

Delta R.T. 0.000 min

Lab File: BN035354.D

Acq: 27 Nov 2024 17:57

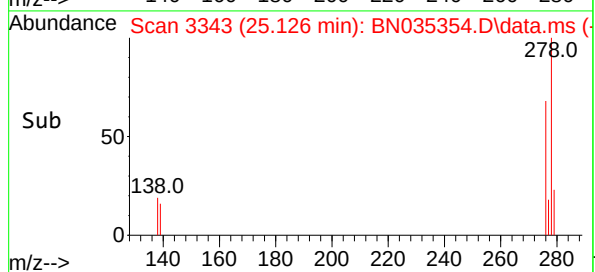
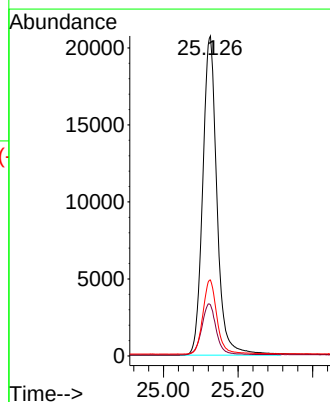
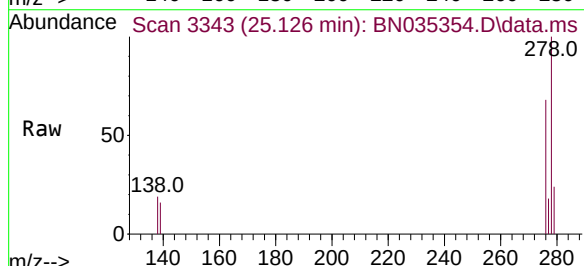
Tgt Ion:278 Resp: 55068

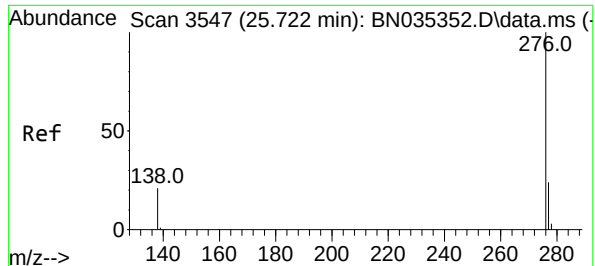
Ion Ratio Lower Upper

278 100

139 16.0 14.2 21.4

279 23.8 20.5 30.7





#41

Benzo(g,h,i)perylene

Concen: 1.618 ng

RT: 25.719 min Scan# 3

Delta R.T. -0.003 min

Lab File: BN035354.D

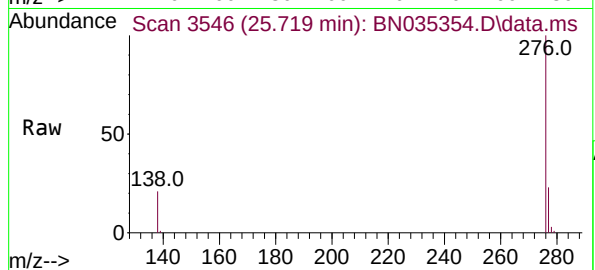
Acq: 27 Nov 2024 17:57

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6



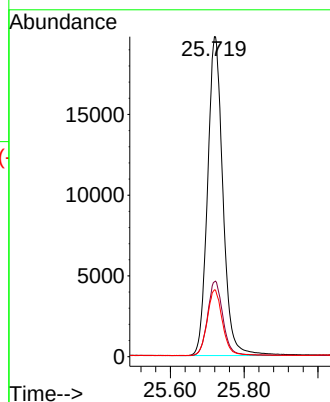
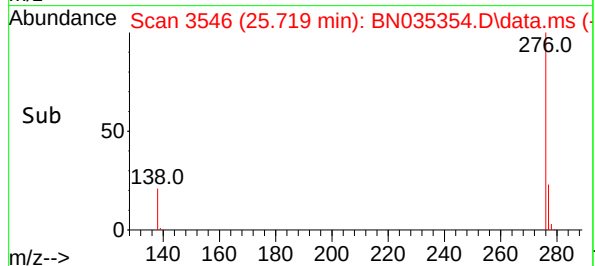
Tgt Ion:276 Resp: 56947

Ion Ratio Lower Upper

276 100

277 23.4 19.9 29.9

138 20.9 17.8 26.8



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112724\  
 Data File : BN035355.D  
 Acq On : 27 Nov 2024 18:33  
 Operator : RC/JU  
 Sample : SSTDICC3.2  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC3.2

Quant Time: Nov 27 22:53:46 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Nov 27 22:48:24 2024  
 Response via : Initial Calibration

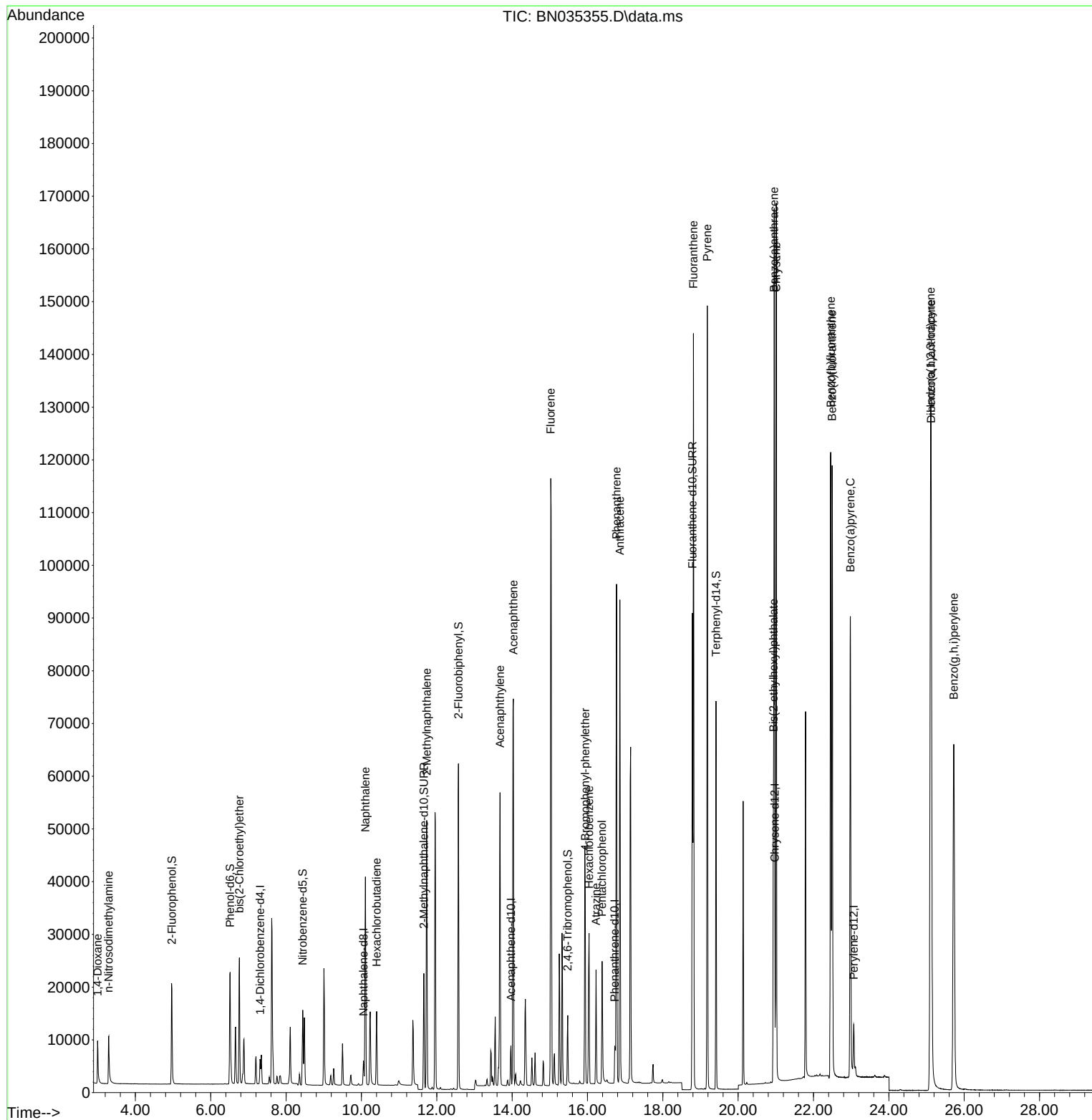
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.308  | 152  | 2226     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.052 | 136  | 5857     | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 13.967 | 164  | 4307     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 16.723 | 188  | 10513    | 0.400 | ng    | #-0.01   |
| 29) Chrysene-d12              | 20.974 | 240  | 11206    | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.067 | 264  | 11643    | 0.400 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 4.968  | 112  | 16991    | 3.007 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.513  | 99   | 21633    | 3.053 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.440  | 82   | 11759    | 2.307 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.656 | 152  | 29957    | 2.870 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.475 | 330  | 10700    | 3.444 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.574 | 172  | 52048    | 2.976 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 18.785 | 212  | 95675    | 2.971 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.412 | 244  | 69164    | 2.941 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| Target Compounds              |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 2.996  | 88   | 6360     | 3.146 | ng    | 99       |
| 3) n-Nitrosodimethylamine     | 3.285  | 42   | 5524     | 2.932 | ng    | # 95     |
| 6) bis(2-Chloroethyl)ether    | 6.759  | 93   | 17762    | 3.339 | ng    | 99       |
| 9) Naphthalene                | 10.105 | 128  | 49151    | 3.214 | ng    | 97       |
| 10) Hexachlorobutadiene       | 10.404 | 225  | 11039    | 2.463 | ng    | # 100    |
| 12) 2-Methylnaphthalene       | 11.732 | 142  | 36121    | 3.202 | ng    | 98       |
| 16) Acenaphthylene            | 13.679 | 152  | 60734    | 3.300 | ng    | 99       |
| 17) Acenaphthene              | 14.031 | 154  | 38676    | 3.206 | ng    | 99       |
| 18) Fluorene                  | 15.026 | 166  | 55613    | 3.134 | ng    | 99       |
| 21) 4-Bromophenyl-phenylether | 15.941 | 248  | 20321    | 3.034 | ng    | # 93     |
| 22) Hexachlorobenzene         | 16.040 | 284  | 23349    | 3.359 | ng    | 99       |
| 23) Atrazine                  | 16.227 | 200  | 15072    | 2.508 | ng    | 96       |
| 24) Pentachlorophenol         | 16.388 | 266  | 11439    | 3.522 | ng    | 86       |
| 25) Phenanthrene              | 16.773 | 178  | 94243    | 3.406 | ng    | 100      |
| 26) Anthracene                | 16.860 | 178  | 87657    | 3.449 | ng    | 99       |
| 28) Fluoranthene              | 18.812 | 202  | 125901   | 3.309 | ng    | 100      |
| 30) Pyrene                    | 19.179 | 202  | 129105   | 3.460 | ng    | 100      |
| 32) Benzo(a)anthracene        | 20.956 | 228  | 126517   | 3.242 | ng    | 99       |
| 33) Chrysene                  | 21.009 | 228  | 127439   | 3.297 | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 20.938 | 149  | 46251    | 2.259 | ng    | 99       |
| 36) Indeno(1,2,3-cd)pyrene    | 25.108 | 276  | 150433   | 3.239 | ng    | 99       |
| 37) Benzo(b)fluoranthene      | 22.456 | 252  | 136261   | 3.478 | ng    | # 94     |
| 38) Benzo(k)fluoranthene      | 22.494 | 252  | 134789   | 3.439 | ng    | # 93     |
| 39) Benzo(a)pyrene            | 22.980 | 252  | 114719   | 3.328 | ng    | # 93     |
| 40) Dibenzo(a,h)anthracene    | 25.123 | 278  | 119216   | 3.240 | ng    | 96       |
| 41) Benzo(g,h,i)perylene      | 25.722 | 276  | 123841   | 3.164 | ng    | 97       |
| -----                         |        |      |          |       |       |          |

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

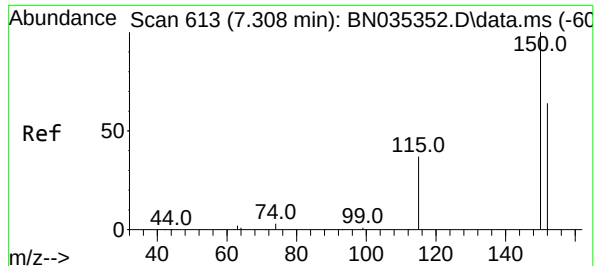
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Data File : BN035355.D  
Acq On : 27 Nov 2024 18:33  
Operator : RC/JU  
Sample : SSTDICC3.2  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

Quant Time: Nov 27 22:53:46 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Nov 27 22:48:24 2024  
Response via : Initial Calibration

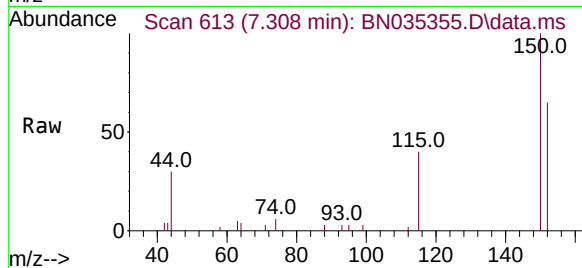




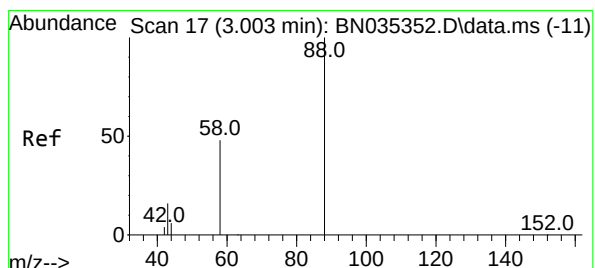
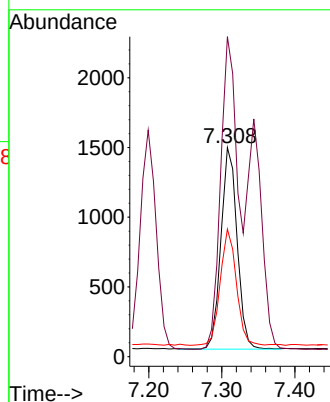
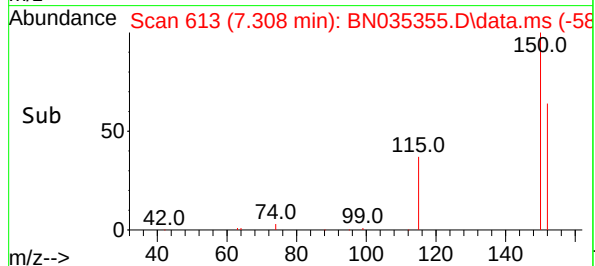


#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.308 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: BN035355.D  
Acq: 27 Nov 2024 18:33

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

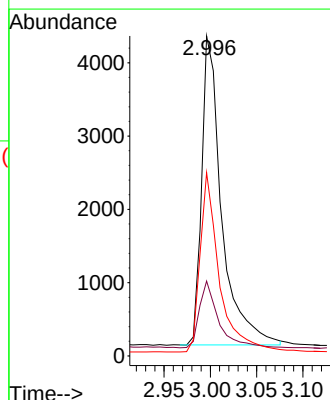
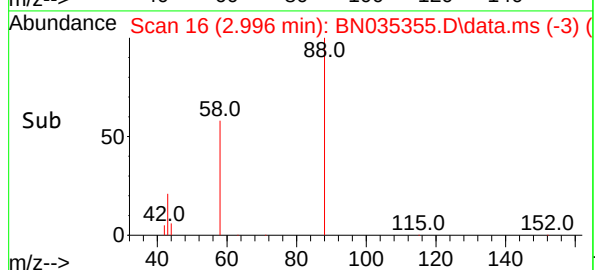
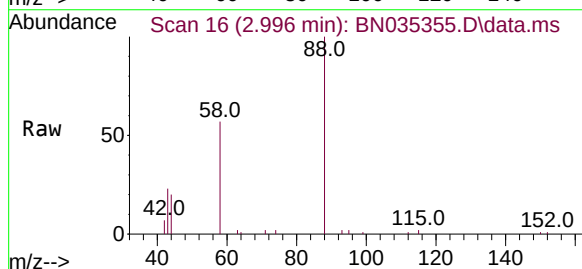


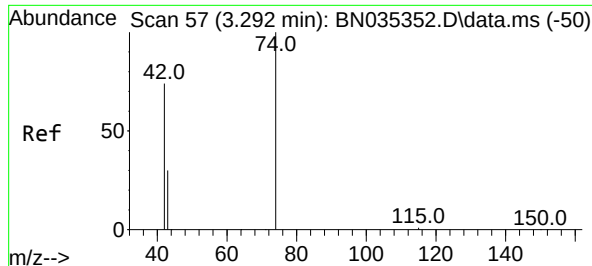
Tgt Ion:152 Resp: 2226  
Ion Ratio Lower Upper  
152 100  
150 153.0 124.0 186.0  
115 61.0 49.6 74.4



#2  
1,4-Dioxane  
Concen: 3.146 ng  
RT: 2.996 min Scan# 16  
Delta R.T. -0.007 min  
Lab File: BN035355.D  
Acq: 27 Nov 2024 18:33

Tgt Ion: 88 Resp: 6360  
Ion Ratio Lower Upper  
88 100  
43 20.6 17.2 25.8  
58 55.4 44.5 66.7

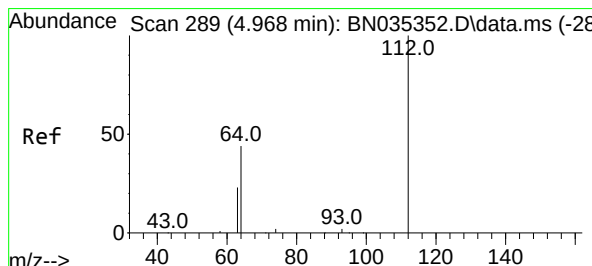
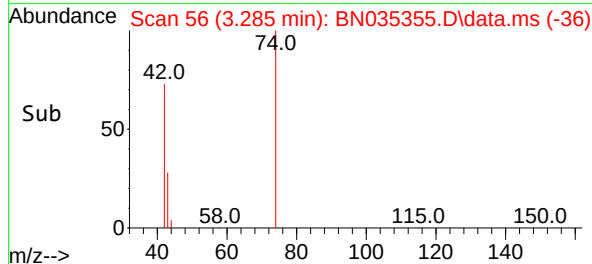
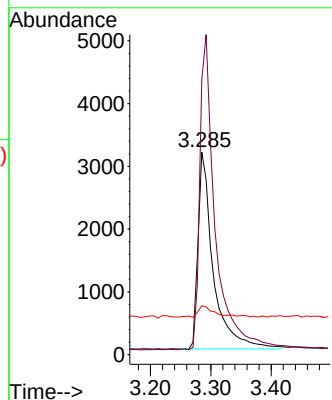
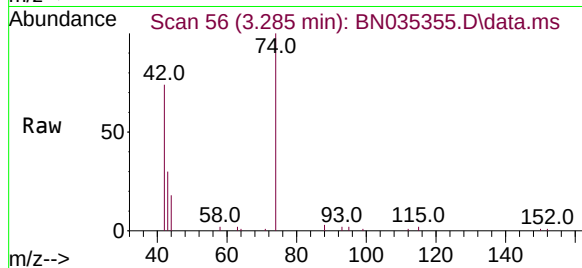




#3  
n-Nitrosodimethylamine  
Concen: 2.932 ng  
RT: 3.285 min Scan# 50  
Delta R.T. -0.007 min  
Lab File: BN035355.D  
Acq: 27 Nov 2024 18:33

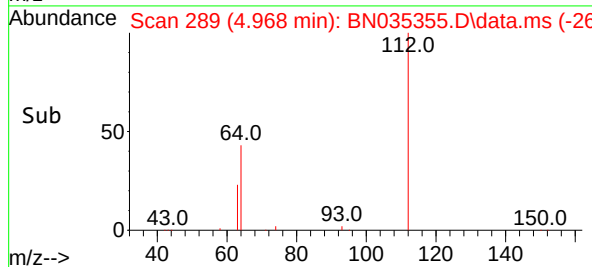
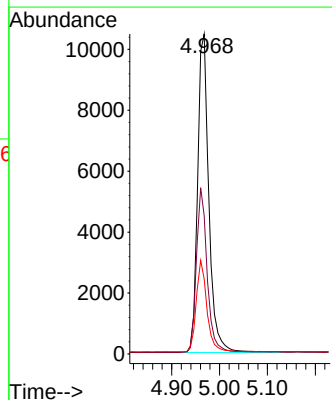
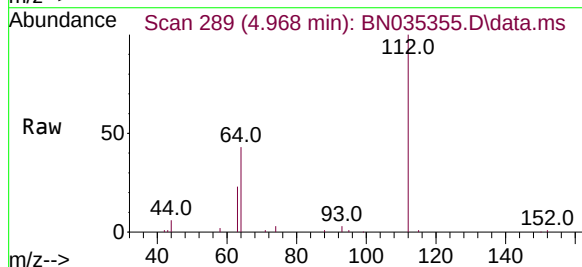
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

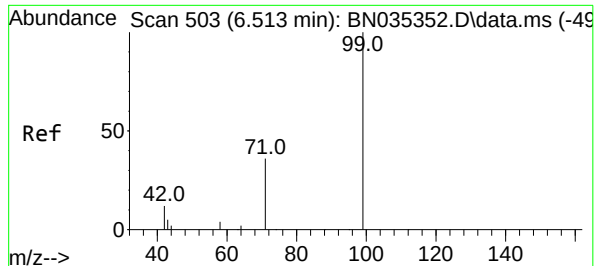
Tgt Ion: 42 Resp: 5524  
Ion Ratio Lower Upper  
42 100  
74 162.0 124.9 187.3  
44 6.4 2.2 3.4#



#4  
2-Fluorophenol  
Concen: 3.007 ng  
RT: 4.968 min Scan# 289  
Delta R.T. -0.000 min  
Lab File: BN035355.D  
Acq: 27 Nov 2024 18:33

Tgt Ion: 112 Resp: 16991  
Ion Ratio Lower Upper  
112 100  
64 49.7 39.8 59.8  
63 27.1 21.0 31.6

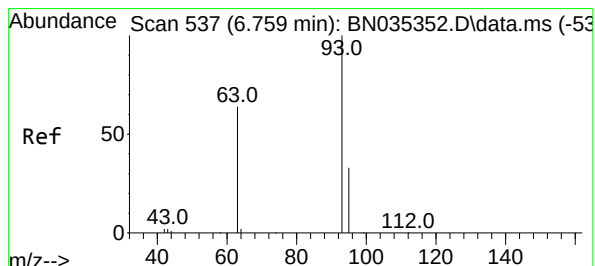
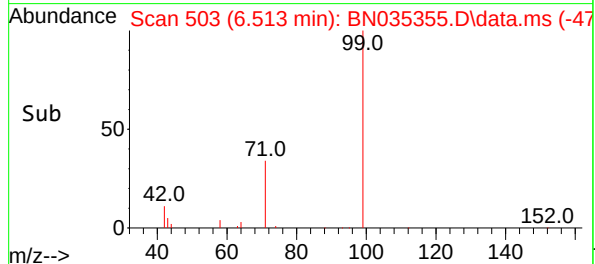
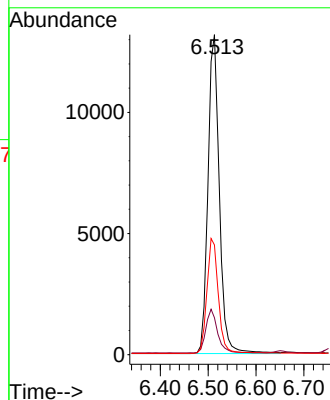
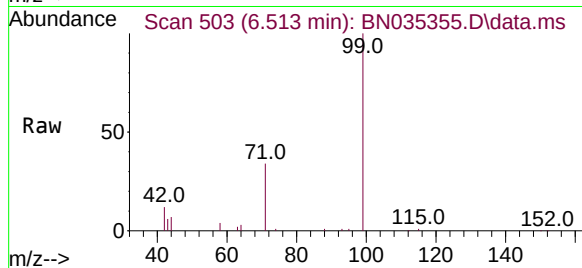




#5  
Phenol-d6  
Concen: 3.053 ng  
RT: 6.513 min Scan# 503  
Delta R.T. -0.000 min  
Lab File: BN035355.D  
Acq: 27 Nov 2024 18:33

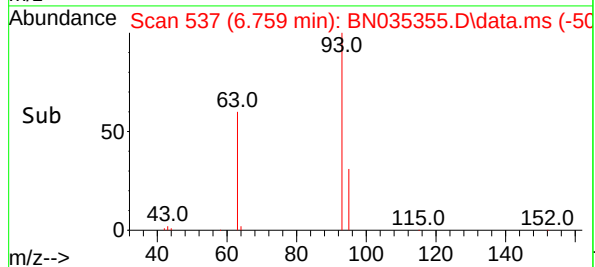
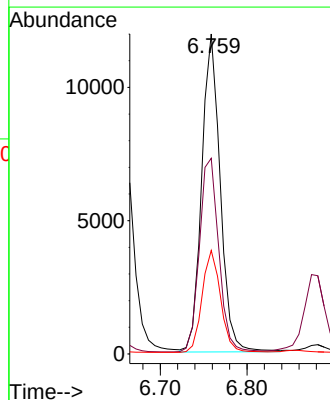
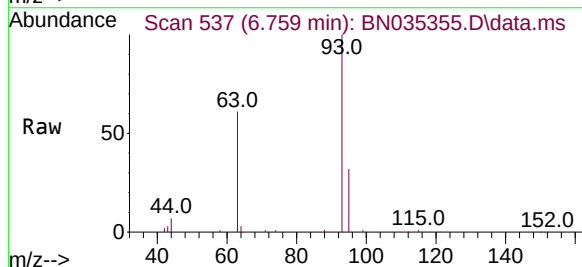
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

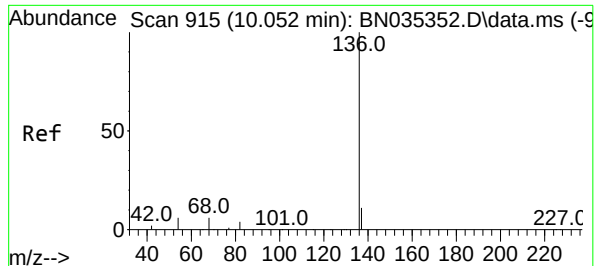
Tgt Ion: 99 Resp: 21633  
Ion Ratio Lower Upper  
99 100  
42 14.1 11.4 17.2  
71 36.5 29.3 43.9



#6  
bis(2-Chloroethyl)ether  
Concen: 3.339 ng  
RT: 6.759 min Scan# 537  
Delta R.T. -0.000 min  
Lab File: BN035355.D  
Acq: 27 Nov 2024 18:33

Tgt Ion: 93 Resp: 17762  
Ion Ratio Lower Upper  
93 100  
63 63.6 50.4 75.6  
95 32.0 25.7 38.5

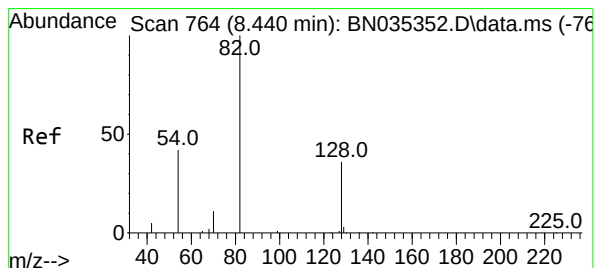
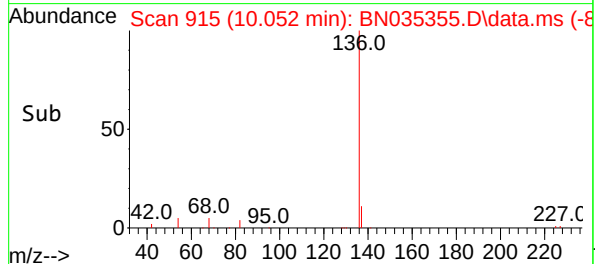
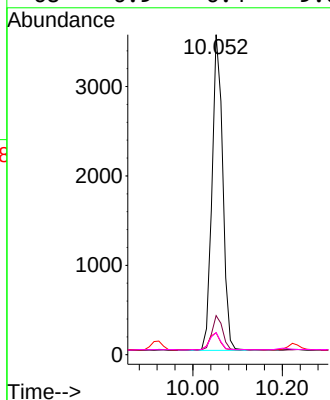
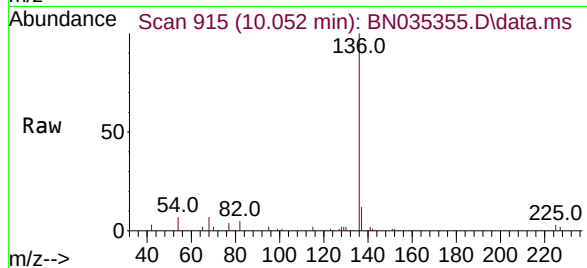




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.052 min Scan# 915  
Delta R.T. -0.000 min  
Lab File: BN035355.D  
Acq: 27 Nov 2024 18:33

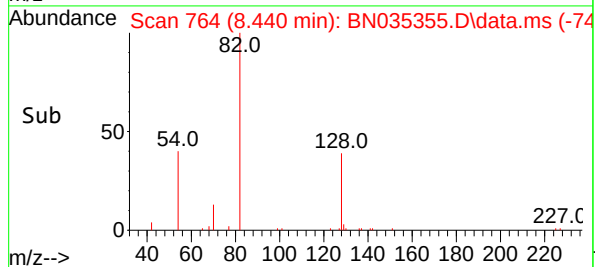
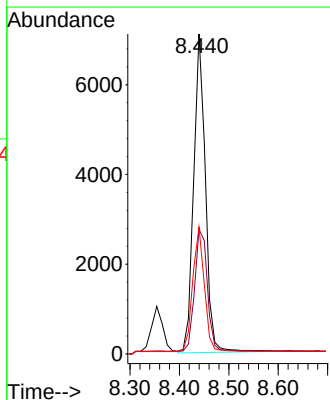
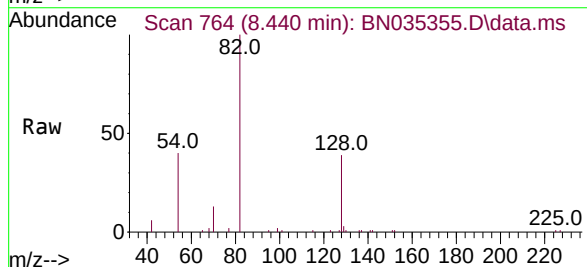
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

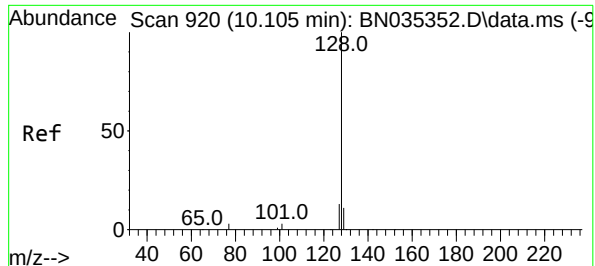
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 5857  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 12.2  | 10.2  | 15.2  |
| 54       | 6.9   | 6.1   | 9.1   |
| 68       | 6.9   | 6.4   | 9.6   |



#8  
Nitrobenzene-d5  
Concen: 2.307 ng  
RT: 8.440 min Scan# 764  
Delta R.T. -0.000 min  
Lab File: BN035355.D  
Acq: 27 Nov 2024 18:33

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 11759 |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 39.0  | 33.4  | 50.0  |
| 54       | 39.7  | 36.7  | 55.1  |

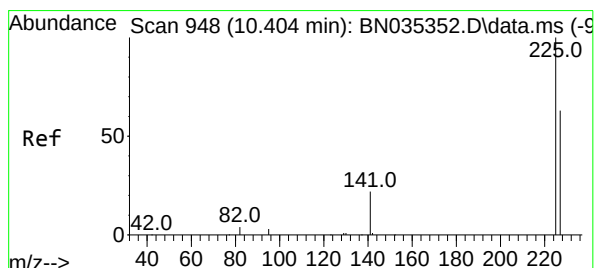
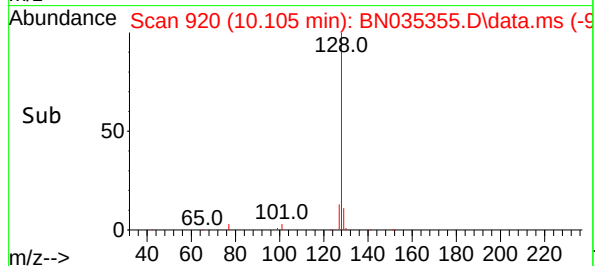
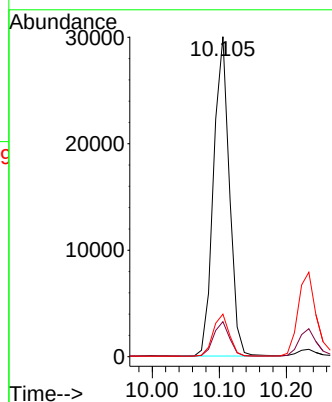
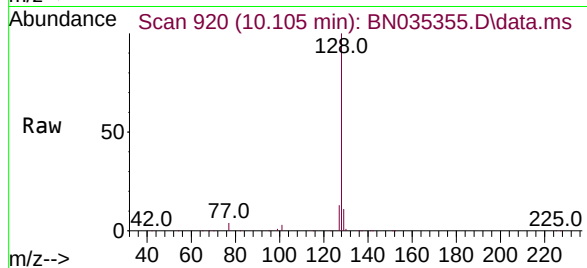




#9  
Naphthalene  
Concen: 3.214 ng  
RT: 10.105 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: BN035355.D  
Acq: 27 Nov 2024 18:33

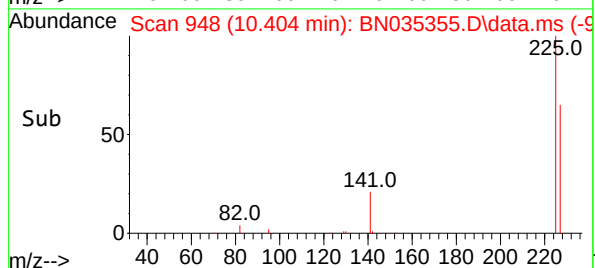
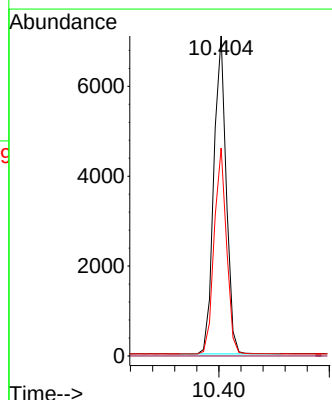
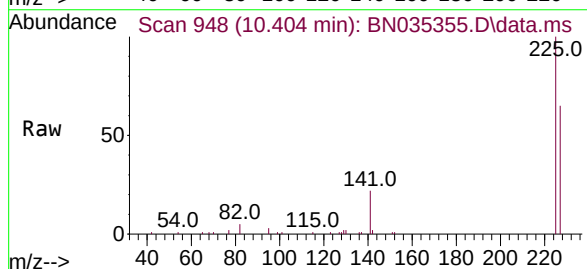
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

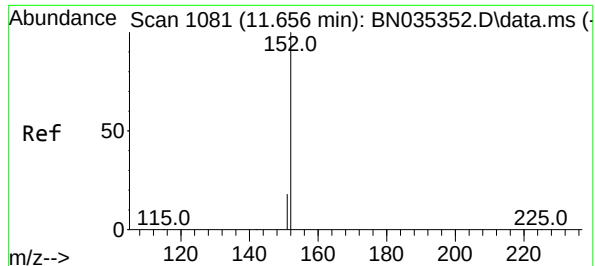
Tgt Ion:128 Resp: 49151  
Ion Ratio Lower Upper  
128 100  
129 11.0 9.8 14.6  
127 13.3 11.4 17.2



#10  
Hexachlorobutadiene  
Concen: 2.463 ng  
RT: 10.404 min Scan# 948  
Delta R.T. -0.000 min  
Lab File: BN035355.D  
Acq: 27 Nov 2024 18:33

Tgt Ion:225 Resp: 11039  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 64.4 51.3 76.9

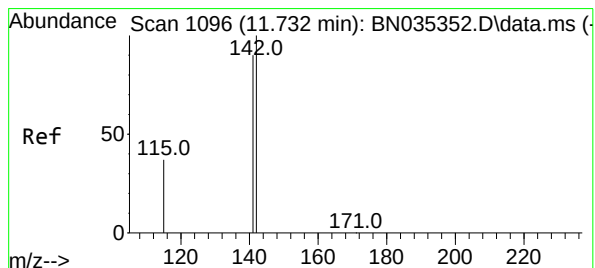
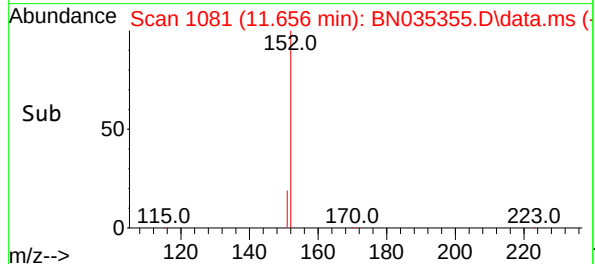
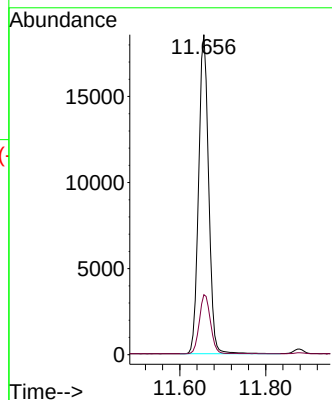
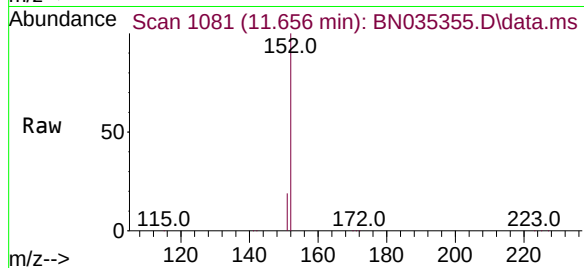




#11  
2-Methylnaphthalene-d10  
Concen: 2.870 ng  
RT: 11.656 min Scan# 1081  
Delta R.T. -0.000 min  
Lab File: BN035355.D  
Acq: 27 Nov 2024 18:33

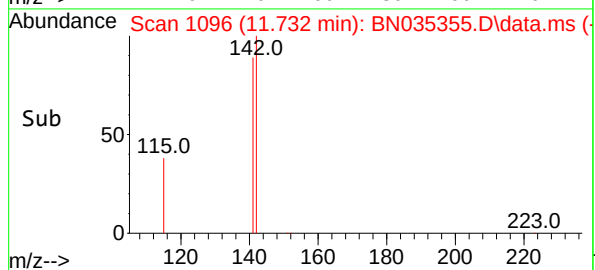
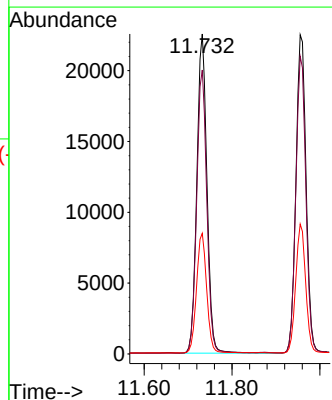
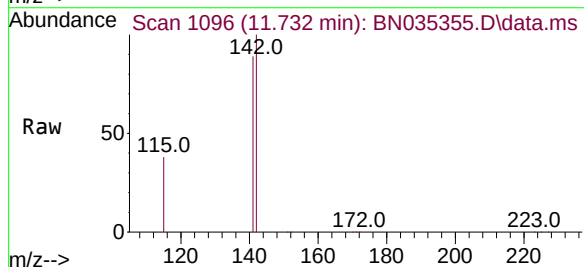
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

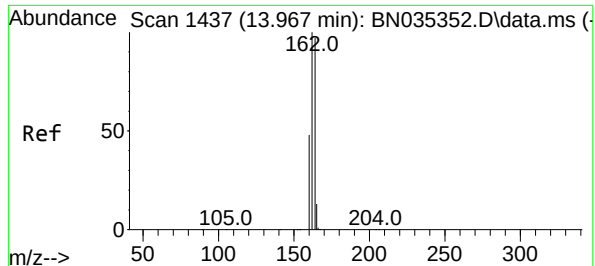
Tgt Ion:152 Resp: 29957  
Ion Ratio Lower Upper  
152 100  
151 20.6 16.6 25.0



#12  
2-Methylnaphthalene  
Concen: 3.202 ng  
RT: 11.732 min Scan# 1096  
Delta R.T. -0.000 min  
Lab File: BN035355.D  
Acq: 27 Nov 2024 18:33

Tgt Ion:142 Resp: 36121  
Ion Ratio Lower Upper  
142 100  
141 88.7 72.2 108.4  
115 37.7 31.4 47.0

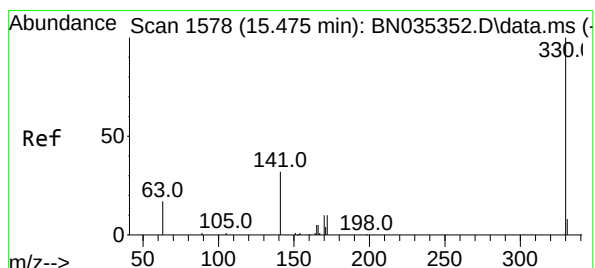
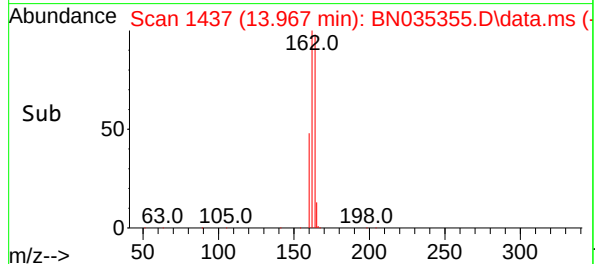
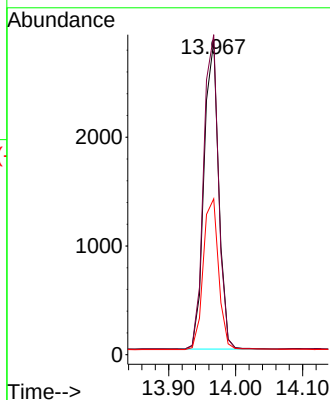
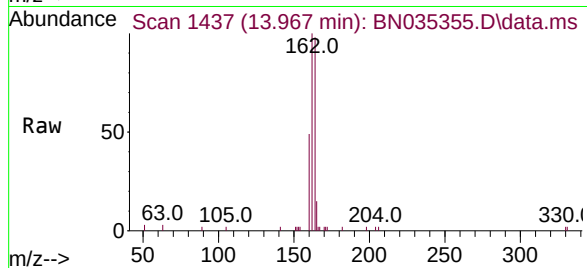




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.967 min Scan# 1437  
Delta R.T. -0.000 min  
Lab File: BN035355.D  
Acq: 27 Nov 2024 18:33

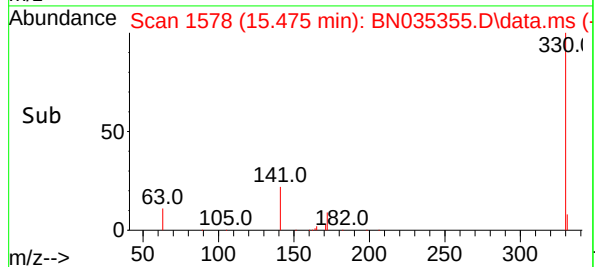
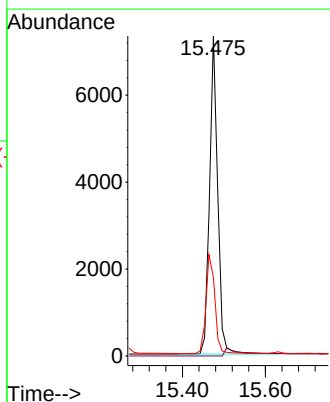
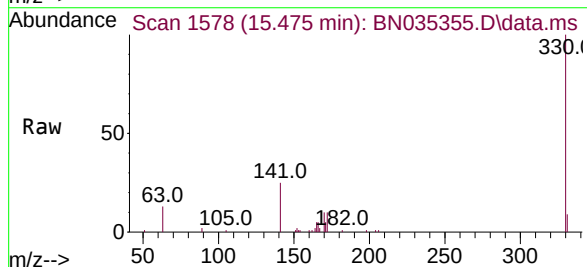
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

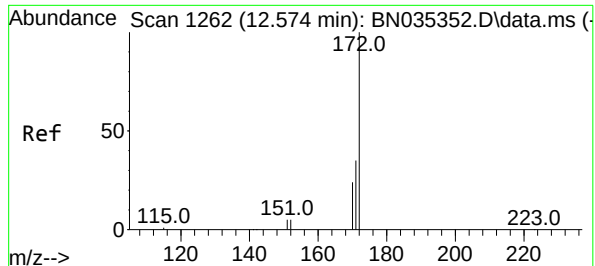
Tgt Ion:164 Resp: 4307  
Ion Ratio Lower Upper  
164 100  
162 102.0 82.2 123.2  
160 49.7 40.1 60.1



#14  
2,4,6-Tribromophenol  
Concen: 3.444 ng  
RT: 15.475 min Scan# 1578  
Delta R.T. -0.000 min  
Lab File: BN035355.D  
Acq: 27 Nov 2024 18:33

Tgt Ion:330 Resp: 10700  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 33.7 26.6 40.0

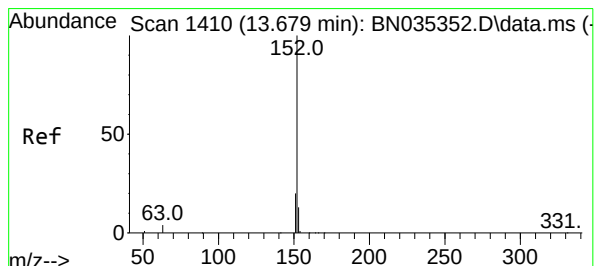
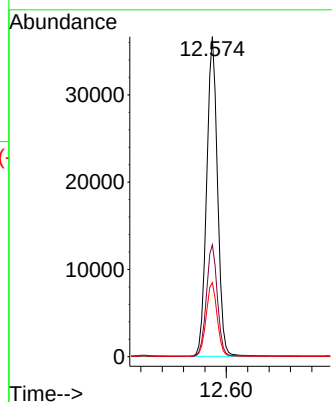
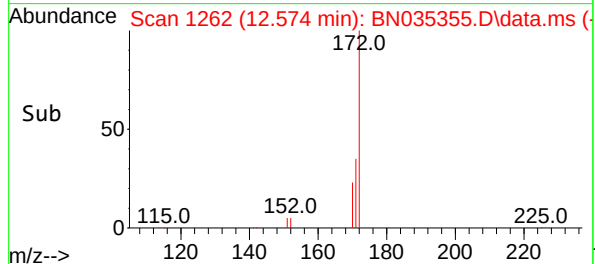
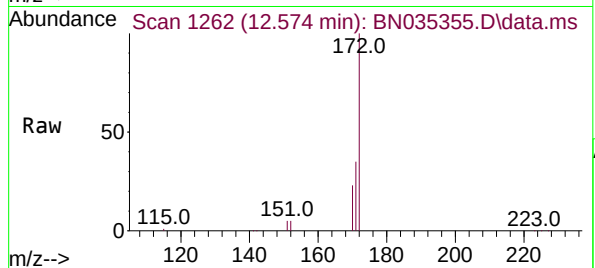




#15  
2-Fluorobiphenyl  
Concen: 2.976 ng  
RT: 12.574 min Scan# 1262  
Delta R.T. -0.000 min  
Lab File: BN035355.D  
Acq: 27 Nov 2024 18:33

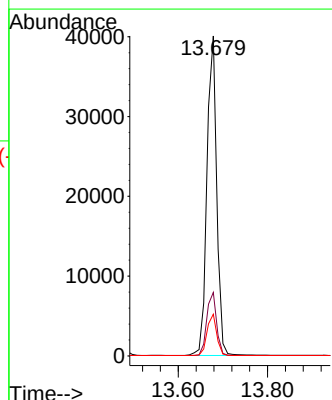
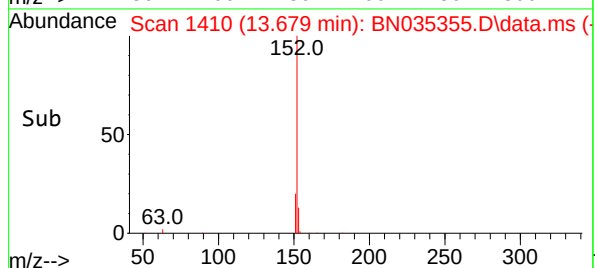
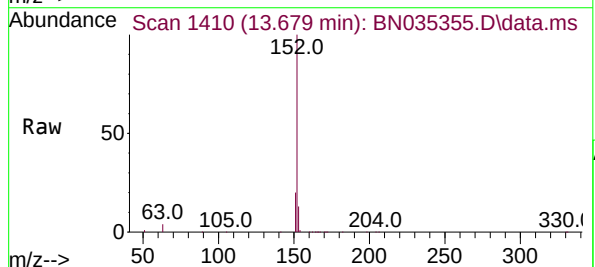
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

Tgt Ion:172 Resp: 52048  
Ion Ratio Lower Upper  
172 100  
171 35.0 29.0 43.4  
170 23.1 19.8 29.8

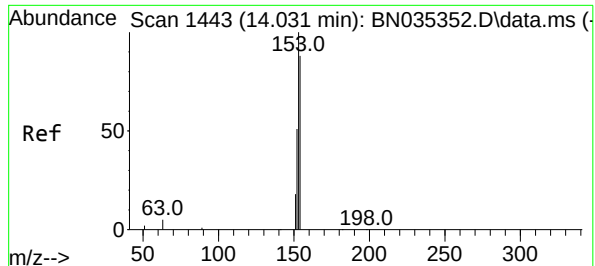


#16  
Acenaphthylene  
Concen: 3.300 ng  
RT: 13.679 min Scan# 1410  
Delta R.T. -0.000 min  
Lab File: BN035355.D  
Acq: 27 Nov 2024 18:33

Tgt Ion:152 Resp: 60734  
Ion Ratio Lower Upper  
152 100  
151 19.8 16.2 24.2  
153 12.9 10.4 15.6



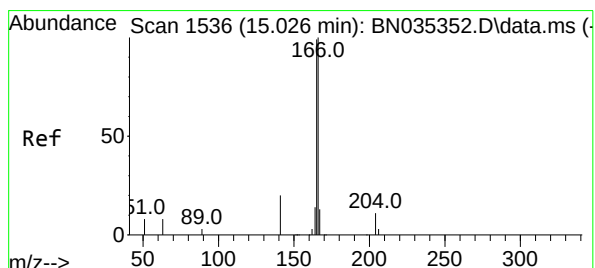
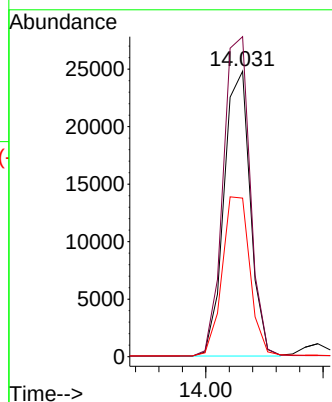
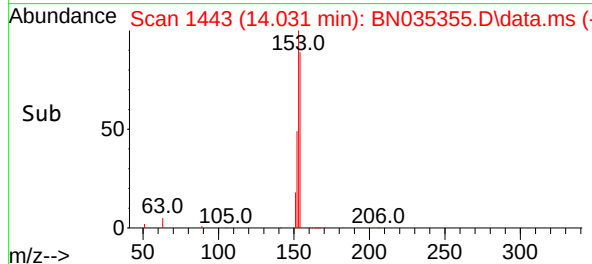
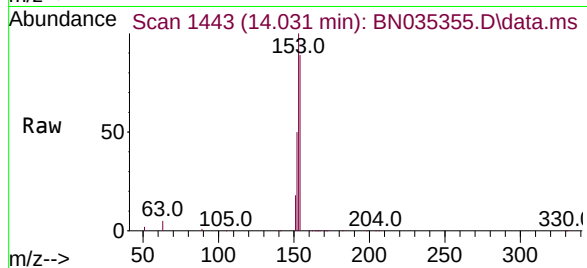




#17  
Acenaphthene  
Concen: 3.206 ng  
RT: 14.031 min Scan# 1443  
Delta R.T. -0.000 min  
Lab File: BN035355.D  
Acq: 27 Nov 2024 18:33

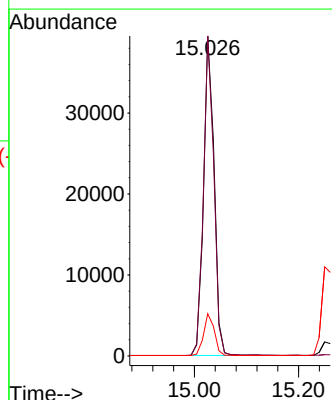
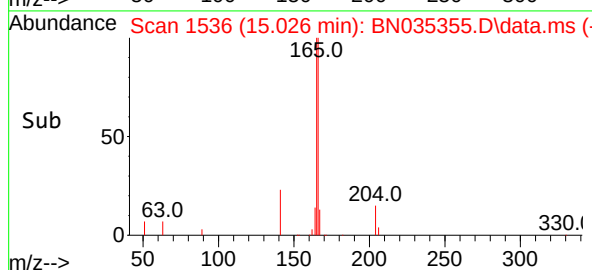
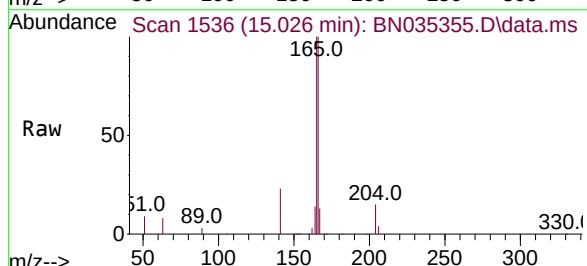
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

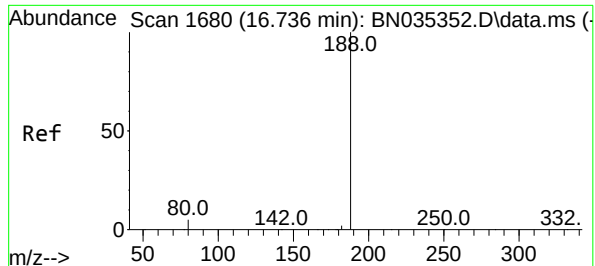
Tgt Ion:154 Resp: 38676  
Ion Ratio Lower Upper  
154 100  
153 115.5 92.6 139.0  
152 59.2 49.0 73.6



#18  
Fluorene  
Concen: 3.134 ng  
RT: 15.026 min Scan# 1536  
Delta R.T. -0.000 min  
Lab File: BN035355.D  
Acq: 27 Nov 2024 18:33

Tgt Ion:166 Resp: 55613  
Ion Ratio Lower Upper  
166 100  
165 98.5 79.7 119.5  
167 13.3 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.723 min Scan# 1

Delta R.T. -0.012 min

Lab File: BN035355.D

Acq: 27 Nov 2024 18:33

Instrument :

BNA\_N

ClientSampleId :

SSTDICC3.2

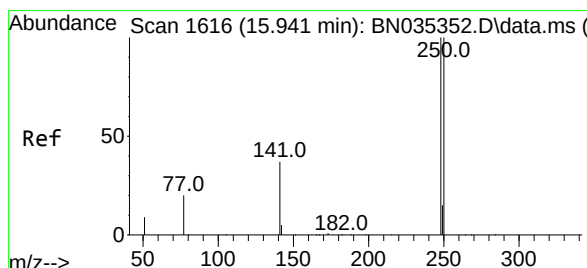
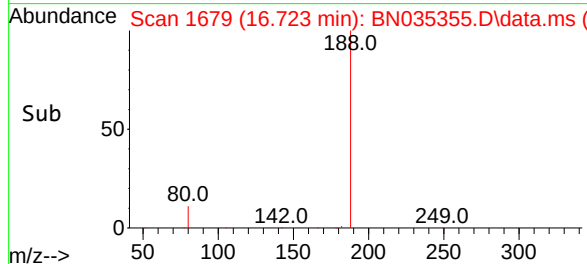
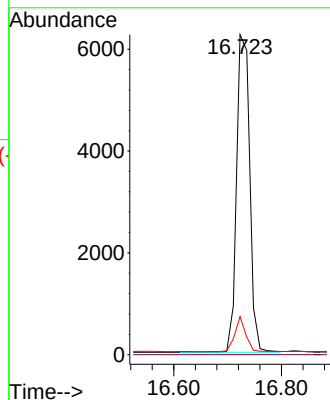
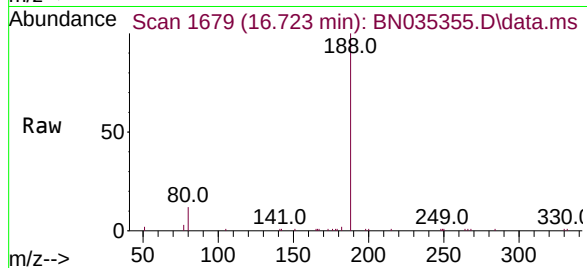
Tgt Ion:188 Resp: 10513

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.9 4.6 6.8#



#21

4-Bromophenyl-phenylether

Concen: 3.034 ng

RT: 15.941 min Scan# 1616

Delta R.T. -0.000 min

Lab File: BN035355.D

Acq: 27 Nov 2024 18:33

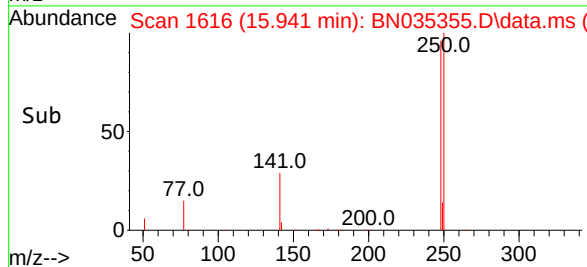
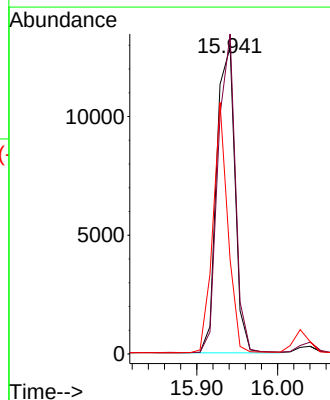
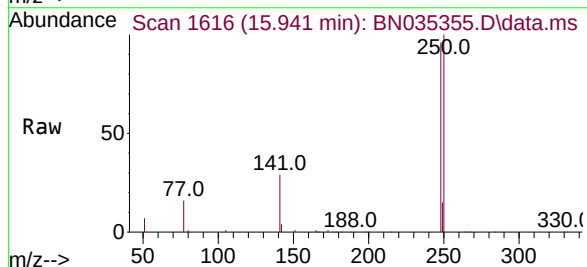
Tgt Ion:248 Resp: 20321

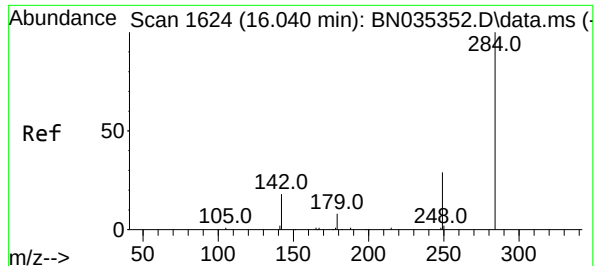
Ion Ratio Lower Upper

248 100

250 104.3 80.6 120.8

141 30.7 31.5 47.3#





#22

Hexachlorobenzene

Concen: 3.359 ng

RT: 16.040 min Scan# 1624

Delta R.T. -0.000 min

Lab File: BN035355.D

Acq: 27 Nov 2024 18:33

Instrument :

BNA\_N

ClientSampleId :

SSTDICC3.2

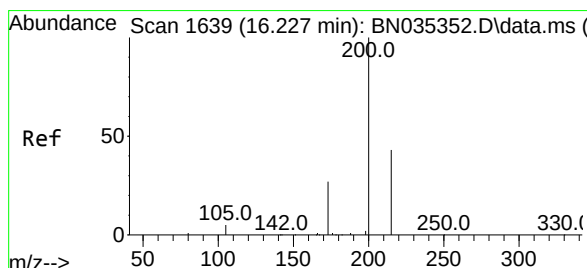
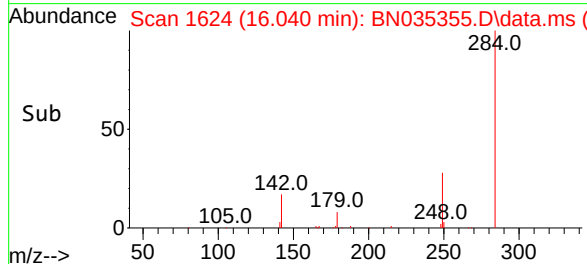
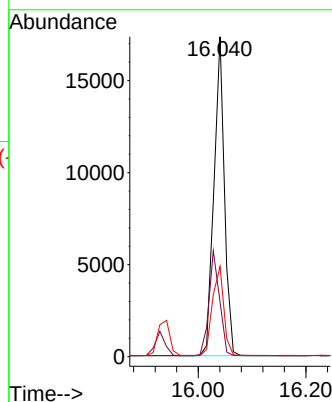
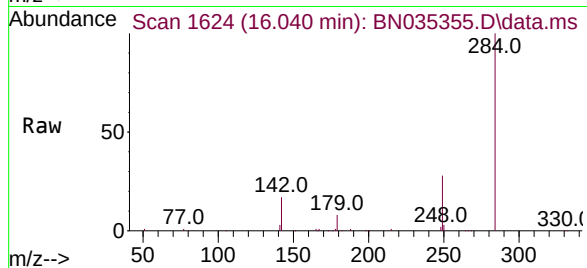
Tgt Ion:284 Resp: 23349

Ion Ratio Lower Upper

284 100

142 33.3 26.7 40.1

249 30.2 24.6 36.8



#23

Atrazine

Concen: 2.508 ng

RT: 16.227 min Scan# 1639

Delta R.T. -0.000 min

Lab File: BN035355.D

Acq: 27 Nov 2024 18:33

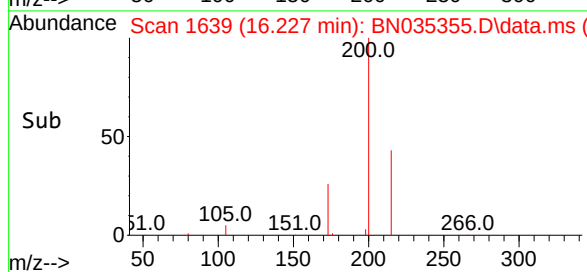
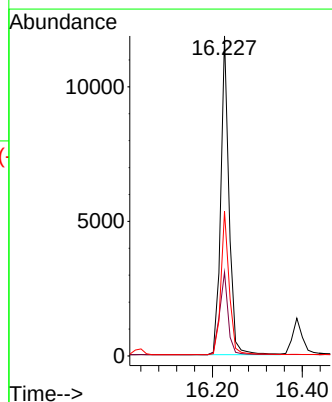
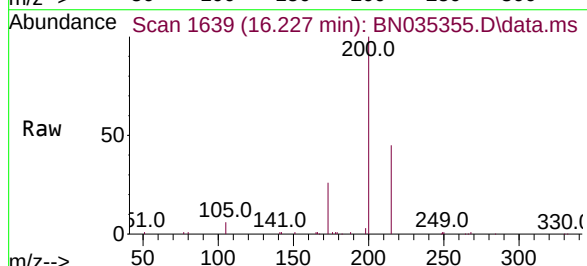
Tgt Ion:200 Resp: 15072

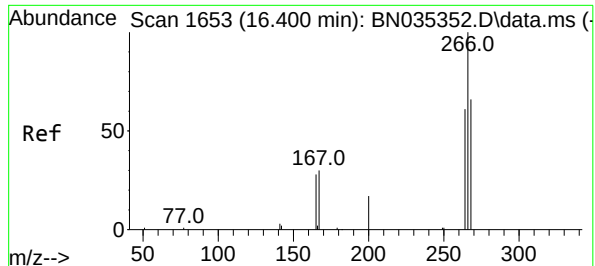
Ion Ratio Lower Upper

200 100

173 26.2 24.1 36.1

215 45.1 36.9 55.3





#24

Pentachlorophenol

Concen: 3.522 ng

RT: 16.388 min Scan# 1652

Delta R.T. -0.012 min

Lab File: BN035355.D

Acq: 27 Nov 2024 18:33

Instrument :

BNA\_N

ClientSampleId :

SSTDICC3.2

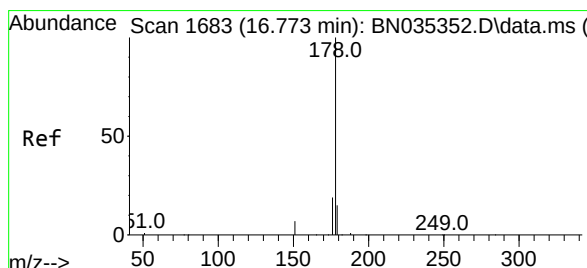
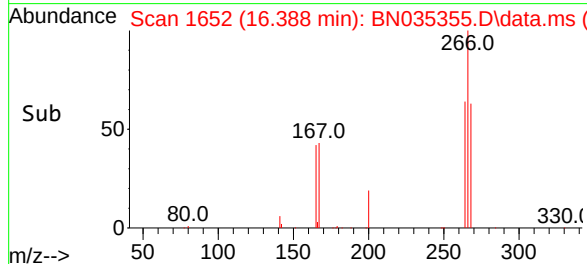
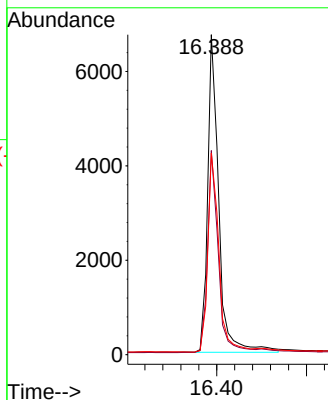
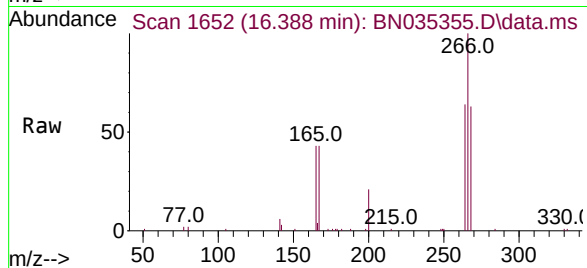
Tgt Ion:266 Resp: 11439

Ion Ratio Lower Upper

266 100

264 62.6 42.3 63.5

268 64.4 43.3 64.9



#25

Phenanthrene

Concen: 3.406 ng

RT: 16.773 min Scan# 1683

Delta R.T. -0.000 min

Lab File: BN035355.D

Acq: 27 Nov 2024 18:33

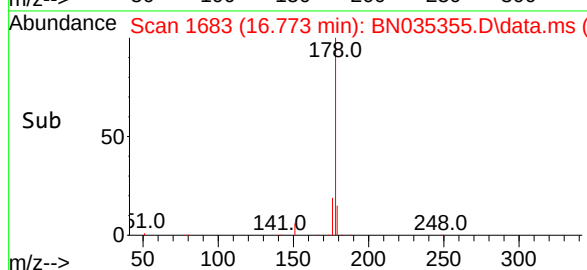
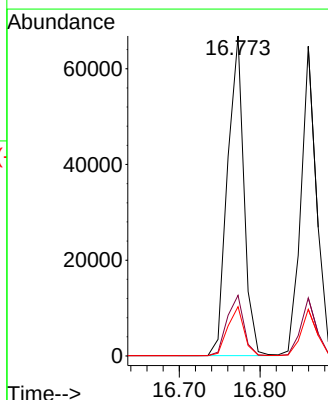
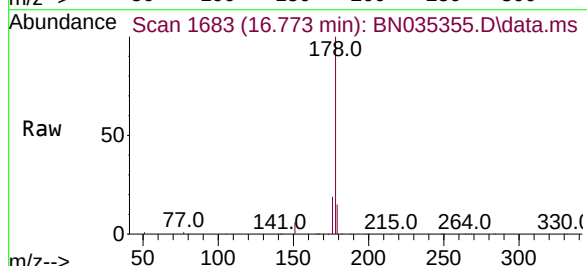
Tgt Ion:178 Resp: 94243

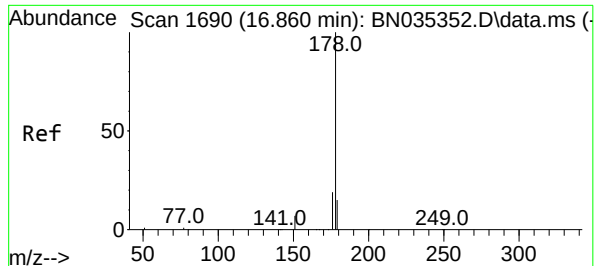
Ion Ratio Lower Upper

178 100

176 19.3 15.4 23.2

179 15.3 12.3 18.5

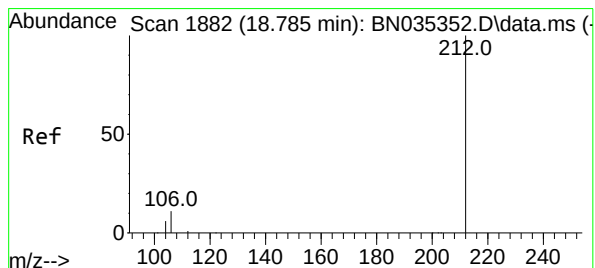
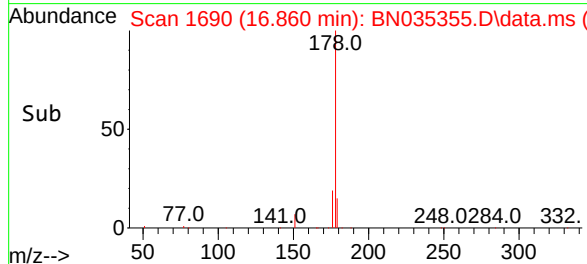
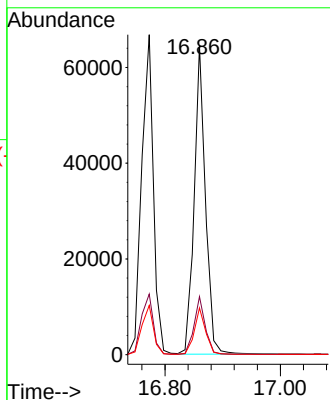
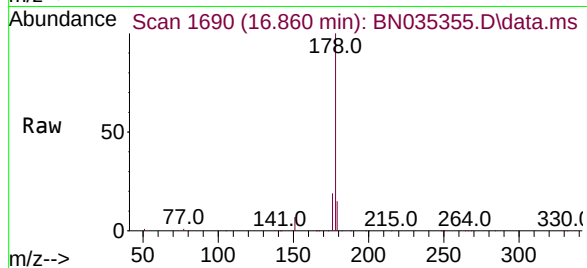




#26  
Anthracene  
Concen: 3.449 ng  
RT: 16.860 min Scan# 1690  
Delta R.T. -0.000 min  
Lab File: BN035355.D  
Acq: 27 Nov 2024 18:33

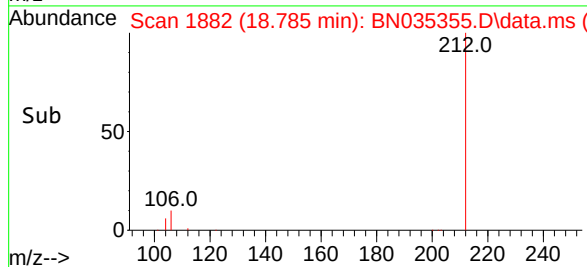
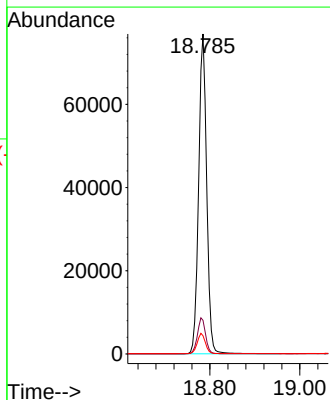
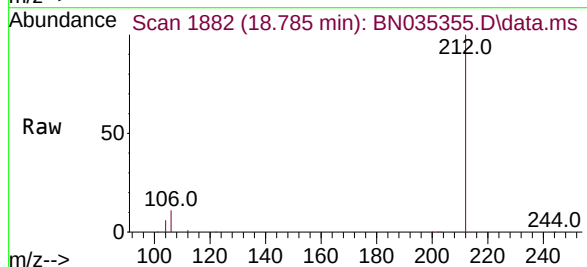
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

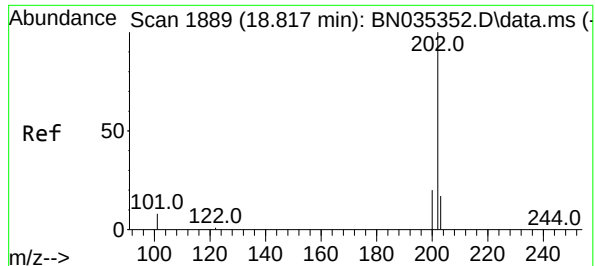
Tgt Ion:178 Resp: 87657  
Ion Ratio Lower Upper  
178 100  
176 18.6 15.0 22.6  
179 15.1 12.6 18.8



#27  
Fluoranthene-d10  
Concen: 2.971 ng  
RT: 18.785 min Scan# 1882  
Delta R.T. -0.000 min  
Lab File: BN035355.D  
Acq: 27 Nov 2024 18:33

Tgt Ion:212 Resp: 95675  
Ion Ratio Lower Upper  
212 100  
106 11.4 9.2 13.8  
104 6.4 5.3 7.9

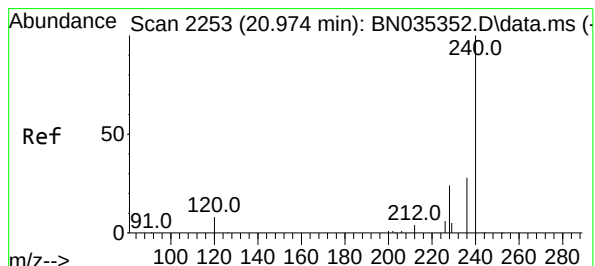
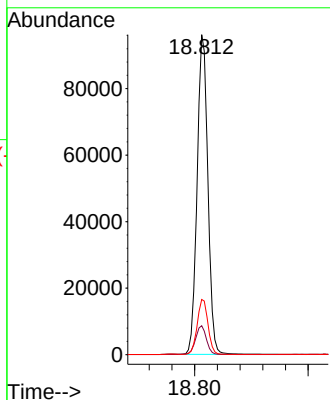
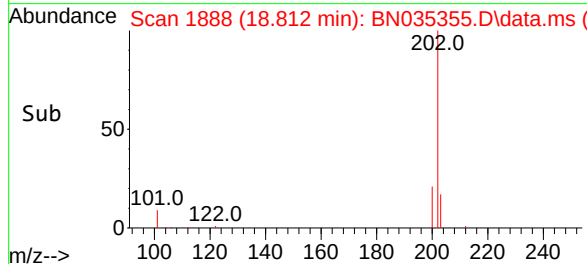
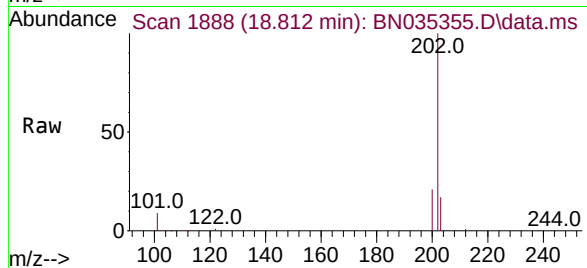




#28  
Fluoranthene  
Concen: 3.309 ng  
RT: 18.812 min Scan# 1888  
Delta R.T. -0.005 min  
Lab File: BN035355.D  
Acq: 27 Nov 2024 18:33

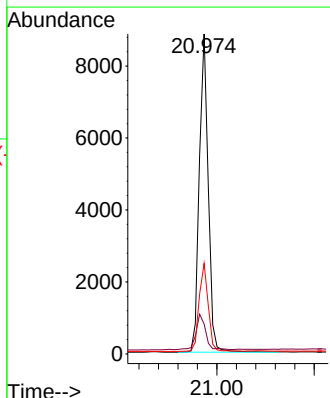
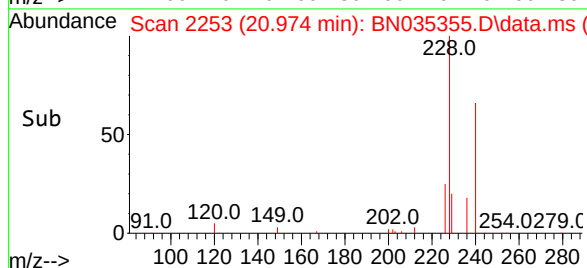
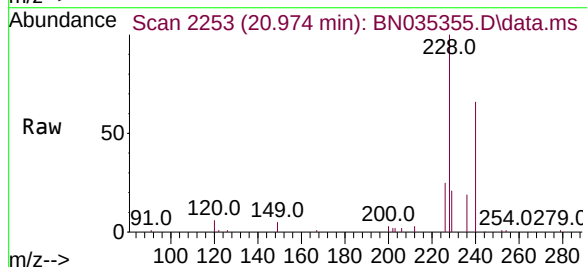
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

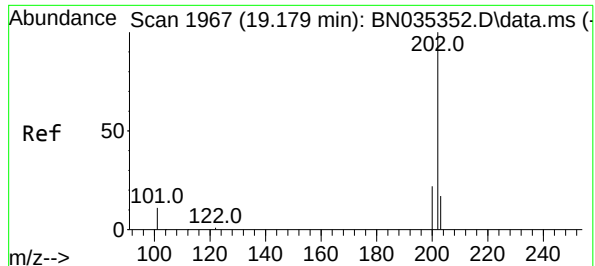
Tgt Ion:202 Resp: 125901  
Ion Ratio Lower Upper  
202 100  
101 9.1 7.4 11.0  
203 17.3 13.7 20.5



#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 20.974 min Scan# 2253  
Delta R.T. -0.000 min  
Lab File: BN035355.D  
Acq: 27 Nov 2024 18:33

Tgt Ion:240 Resp: 11206  
Ion Ratio Lower Upper  
240 100  
120 9.3 7.9 11.9  
236 28.3 22.9 34.3

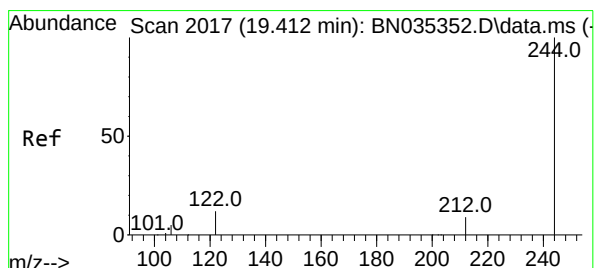
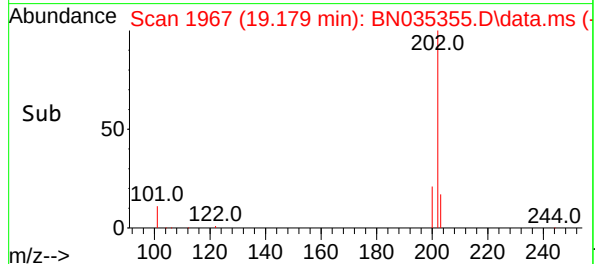
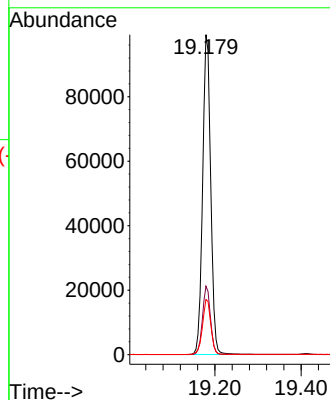
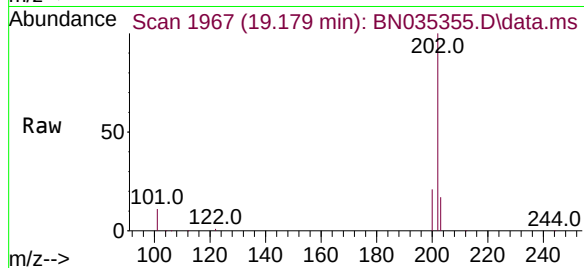




#30  
Pyrene  
Concen: 3.460 ng  
RT: 19.179 min Scan# 1967  
Delta R.T. -0.000 min  
Lab File: BN035355.D  
Acq: 27 Nov 2024 18:33

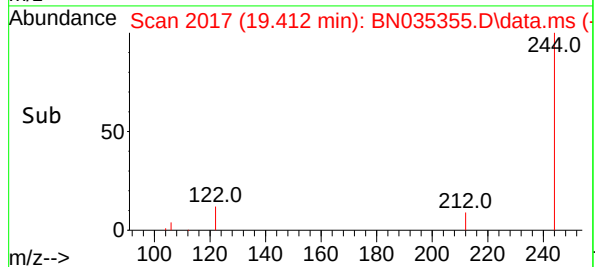
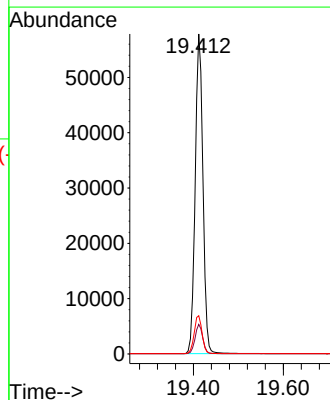
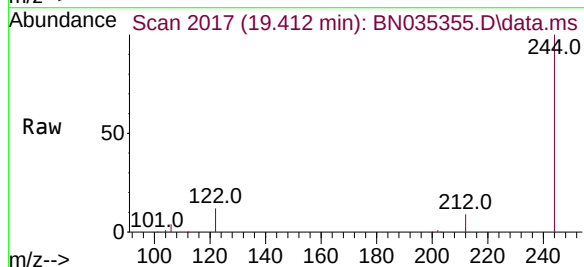
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

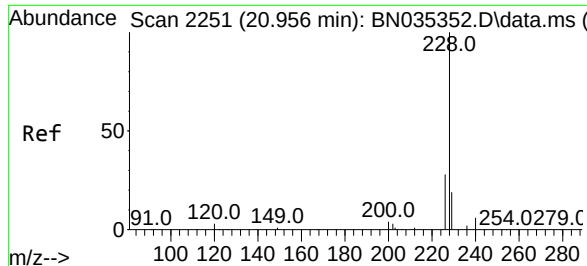
Tgt Ion:202 Resp: 129105  
Ion Ratio Lower Upper  
202 100  
200 21.2 17.0 25.4  
203 17.7 14.3 21.5



#31  
Terphenyl-d14  
Concen: 2.941 ng  
RT: 19.412 min Scan# 2017  
Delta R.T. -0.000 min  
Lab File: BN035355.D  
Acq: 27 Nov 2024 18:33

Tgt Ion:244 Resp: 69164  
Ion Ratio Lower Upper  
244 100  
212 9.2 8.1 12.1  
122 12.0 10.3 15.5

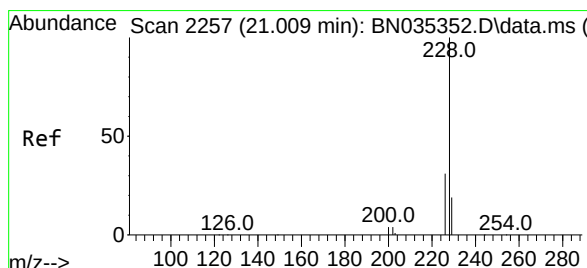
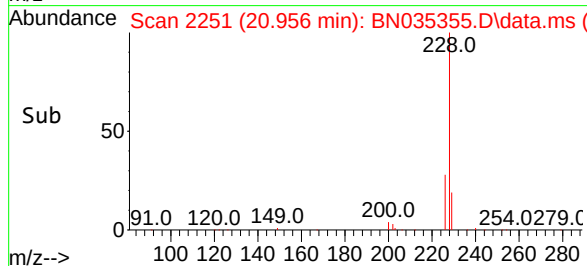
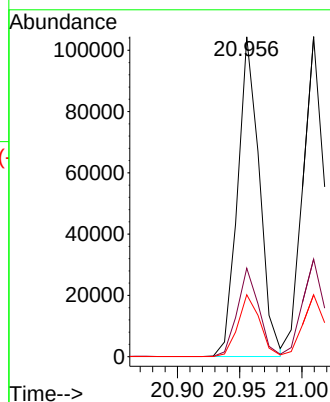
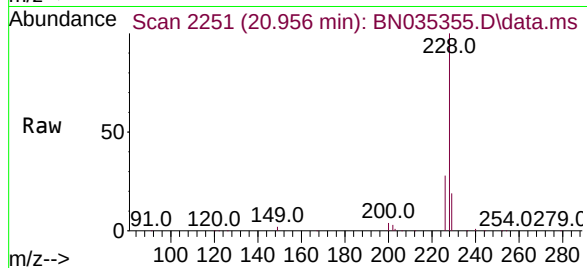




#32  
Benzo(a)anthracene  
Concen: 3.242 ng  
RT: 20.956 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: BN035355.D  
Acq: 27 Nov 2024 18:33

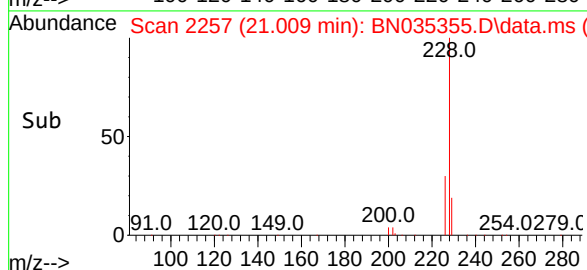
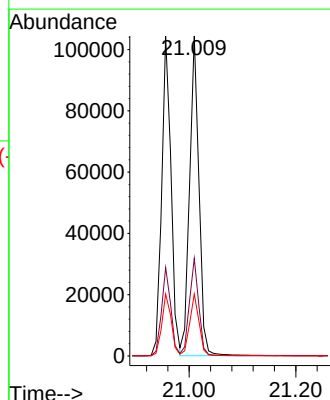
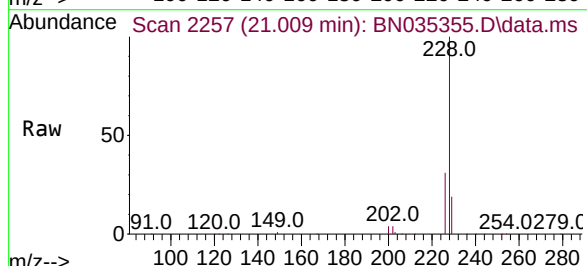
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

Tgt Ion:228 Resp: 126517  
Ion Ratio Lower Upper  
228 100  
226 27.6 22.5 33.7  
229 19.4 15.8 23.8

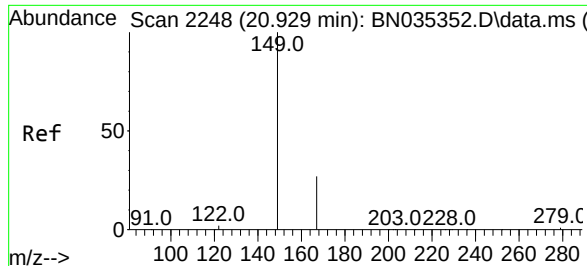


#33  
Chrysene  
Concen: 3.297 ng  
RT: 21.009 min Scan# 2257  
Delta R.T. -0.000 min  
Lab File: BN035355.D  
Acq: 27 Nov 2024 18:33

Tgt Ion:228 Resp: 127439  
Ion Ratio Lower Upper  
228 100  
226 30.5 24.6 37.0  
229 19.4 15.9 23.9



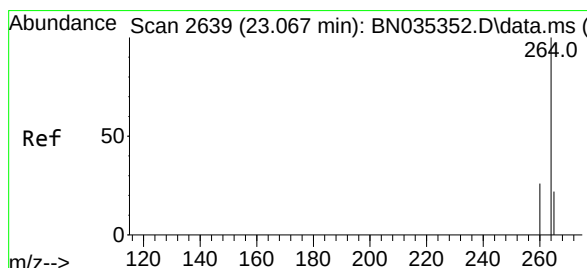
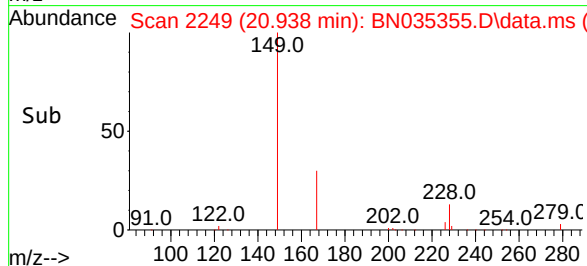
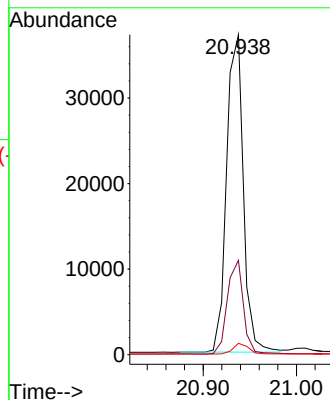
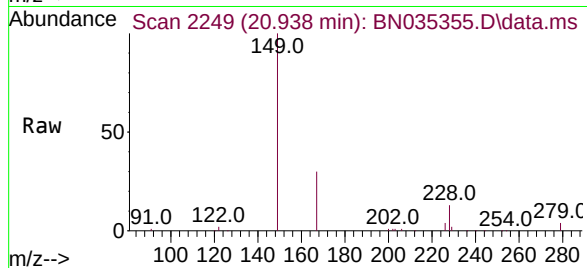




#34  
Bis(2-ethylhexyl)phthalate  
Concen: 2.259 ng  
RT: 20.938 min Scan# 21  
Delta R.T. 0.009 min  
Lab File: BN035355.D  
Acq: 27 Nov 2024 18:33

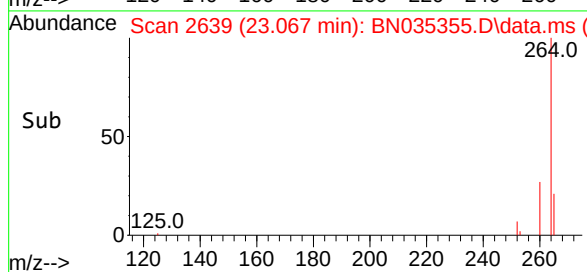
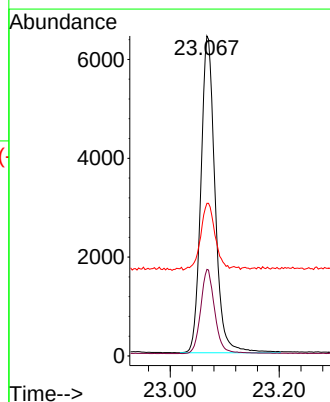
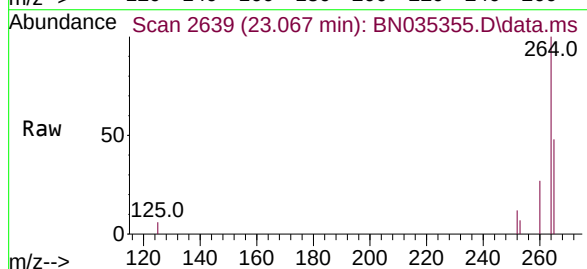
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

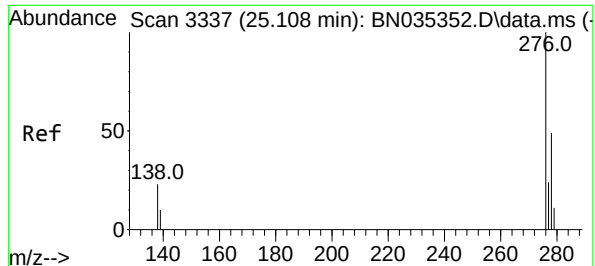
Tgt Ion:149 Resp: 46251  
Ion Ratio Lower Upper  
149 100  
167 28.3 22.2 33.4  
279 3.2 2.7 4.1



#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.067 min Scan# 2639  
Delta R.T. -0.000 min  
Lab File: BN035355.D  
Acq: 27 Nov 2024 18:33

Tgt Ion:264 Resp: 11643  
Ion Ratio Lower Upper  
264 100  
260 27.1 21.4 32.2  
265 47.7 40.2 60.4





#36

Indeno(1,2,3-cd)pyrene

Concen: 3.239 ng

RT: 25.108 min Scan# 31

Delta R.T. -0.000 min

Lab File: BN035355.D

Acq: 27 Nov 2024 18:33

Instrument :

BNA\_N

ClientSampleId :

SSTDICC3.2

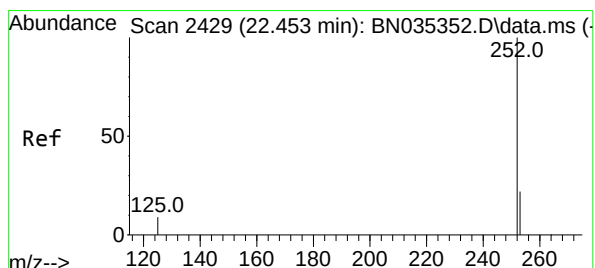
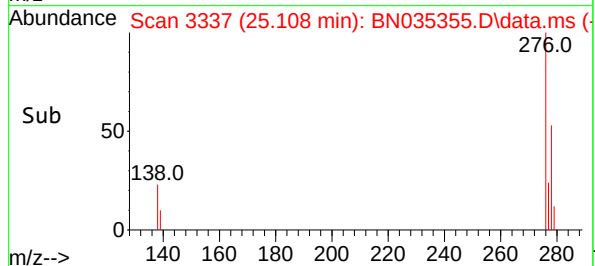
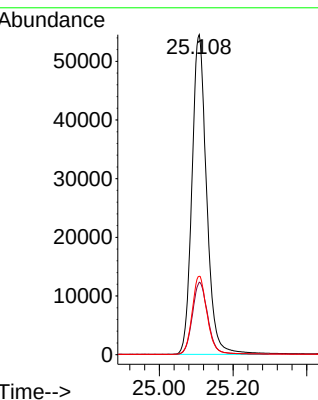
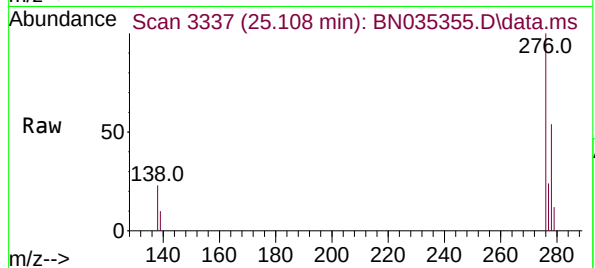
Tgt Ion:276 Resp: 150433

Ion Ratio Lower Upper

276 100

138 23.7 19.4 29.0

277 24.9 19.8 29.6



#37

Benzo(b)fluoranthene

Concen: 3.478 ng

RT: 22.456 min Scan# 2430

Delta R.T. 0.003 min

Lab File: BN035355.D

Acq: 27 Nov 2024 18:33

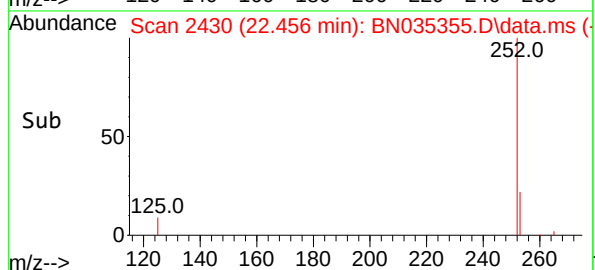
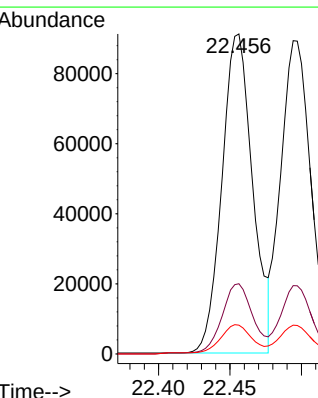
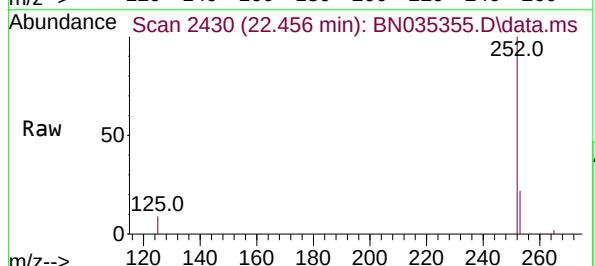
Tgt Ion:252 Resp: 136261

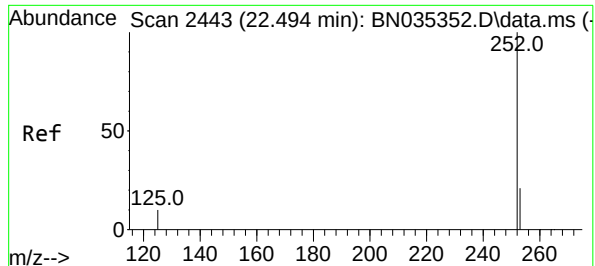
Ion Ratio Lower Upper

252 100

253 22.0 19.6 29.4

125 9.0 9.6 14.4#





#38

Benzo(k)fluoranthene

Concen: 3.439 ng

RT: 22.494 min Scan# 2443

Delta R.T. -0.000 min

Lab File: BN035355.D

Acq: 27 Nov 2024 18:33

Instrument :

BNA\_N

ClientSampleId :

SSTDICC3.2

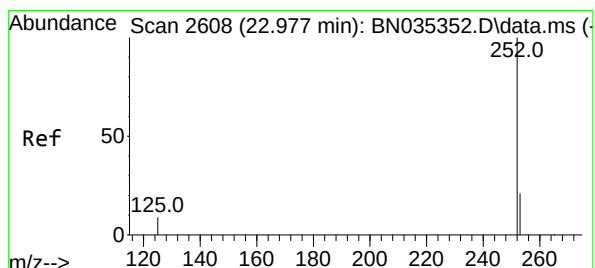
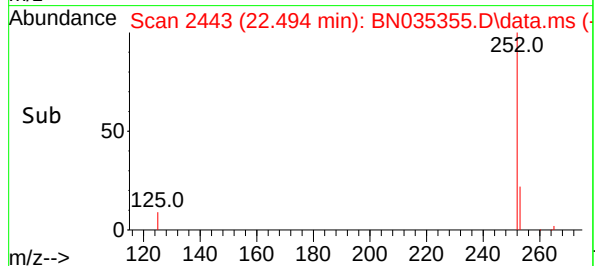
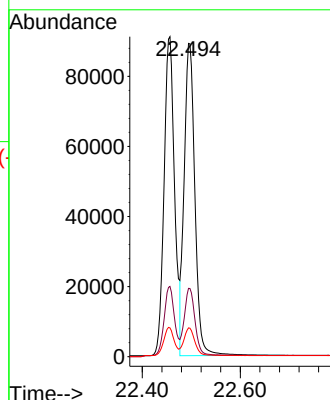
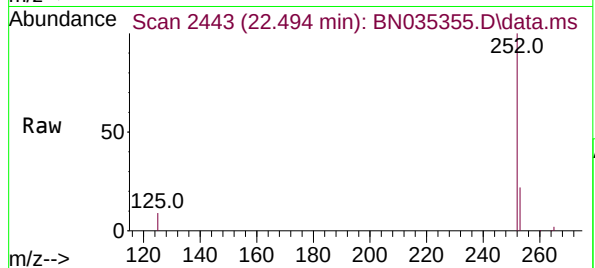
Tgt Ion:252 Resp: 134789

Ion Ratio Lower Upper

252 100

253 21.8 19.5 29.3

125 9.2 10.2 15.4#



#39

Benzo(a)pyrene

Concen: 3.328 ng

RT: 22.980 min Scan# 2609

Delta R.T. 0.003 min

Lab File: BN035355.D

Acq: 27 Nov 2024 18:33

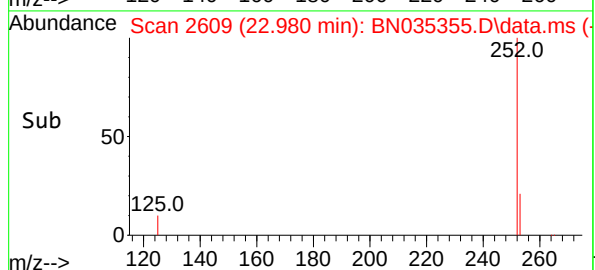
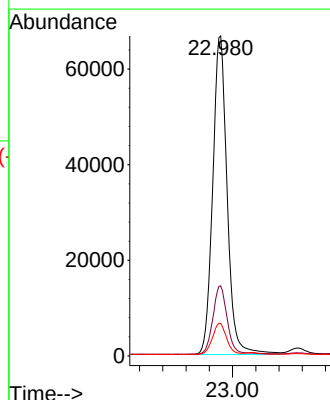
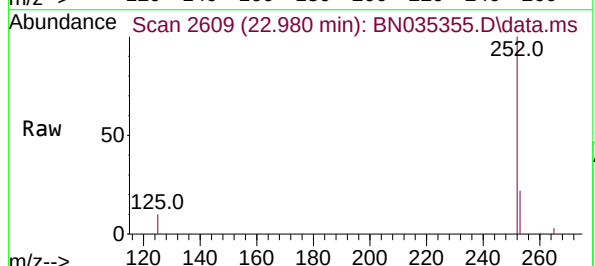
Tgt Ion:252 Resp: 114719

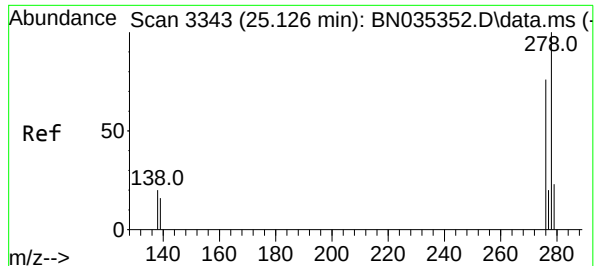
Ion Ratio Lower Upper

252 100

253 21.9 20.2 30.4

125 10.1 10.9 16.3#





#40

Dibenzo(a,h)anthracene

Concen: 3.240 ng

RT: 25.123 min Scan# 31

Delta R.T. -0.003 min

Lab File: BN035355.D

Acq: 27 Nov 2024 18:33

Instrument :

BNA\_N

ClientSampleId :

SSTDICC3.2

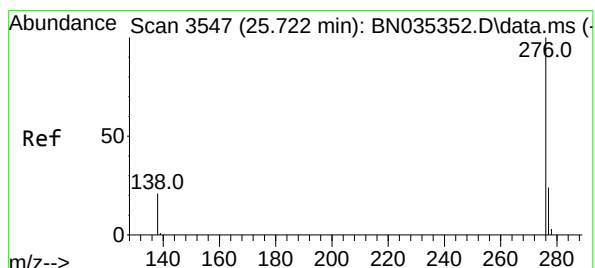
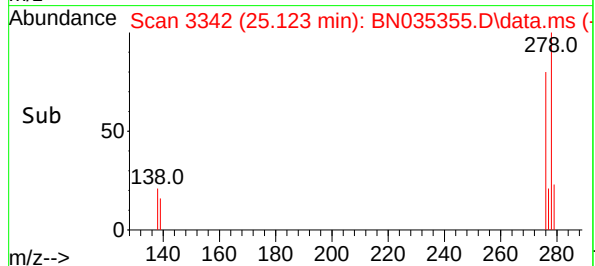
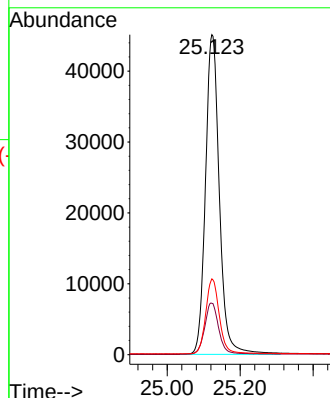
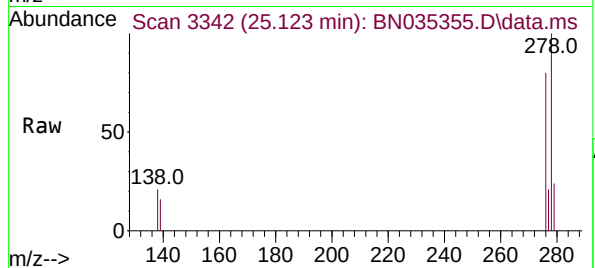
Tgt Ion:278 Resp: 119216

Ion Ratio Lower Upper

278 100

139 16.1 14.2 21.4

279 23.7 20.5 30.7



#41

Benzo(g,h,i)perylene

Concen: 3.164 ng

RT: 25.722 min Scan# 3547

Delta R.T. -0.000 min

Lab File: BN035355.D

Acq: 27 Nov 2024 18:33

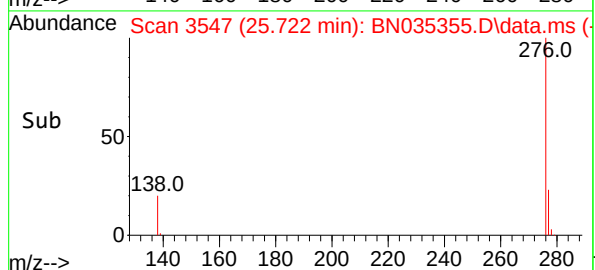
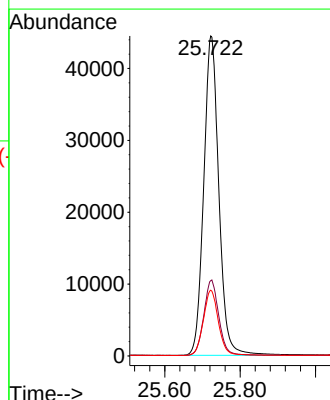
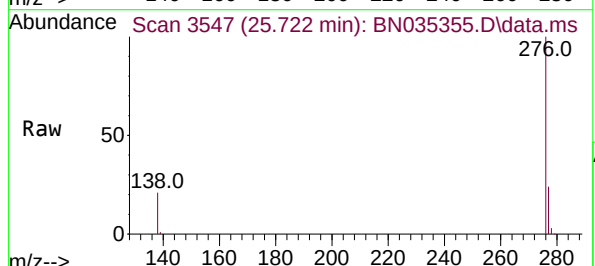
Tgt Ion:276 Resp: 123841

Ion Ratio Lower Upper

276 100

277 23.6 19.9 29.9

138 20.6 17.8 26.8



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112724\  
 Data File : BN035356.D  
 Acq On : 27 Nov 2024 19:09  
 Operator : RC/JU  
 Sample : SSTDICC5.0  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC5.0

Quant Time: Nov 27 22:54:04 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Nov 27 22:48:24 2024  
 Response via : Initial Calibration

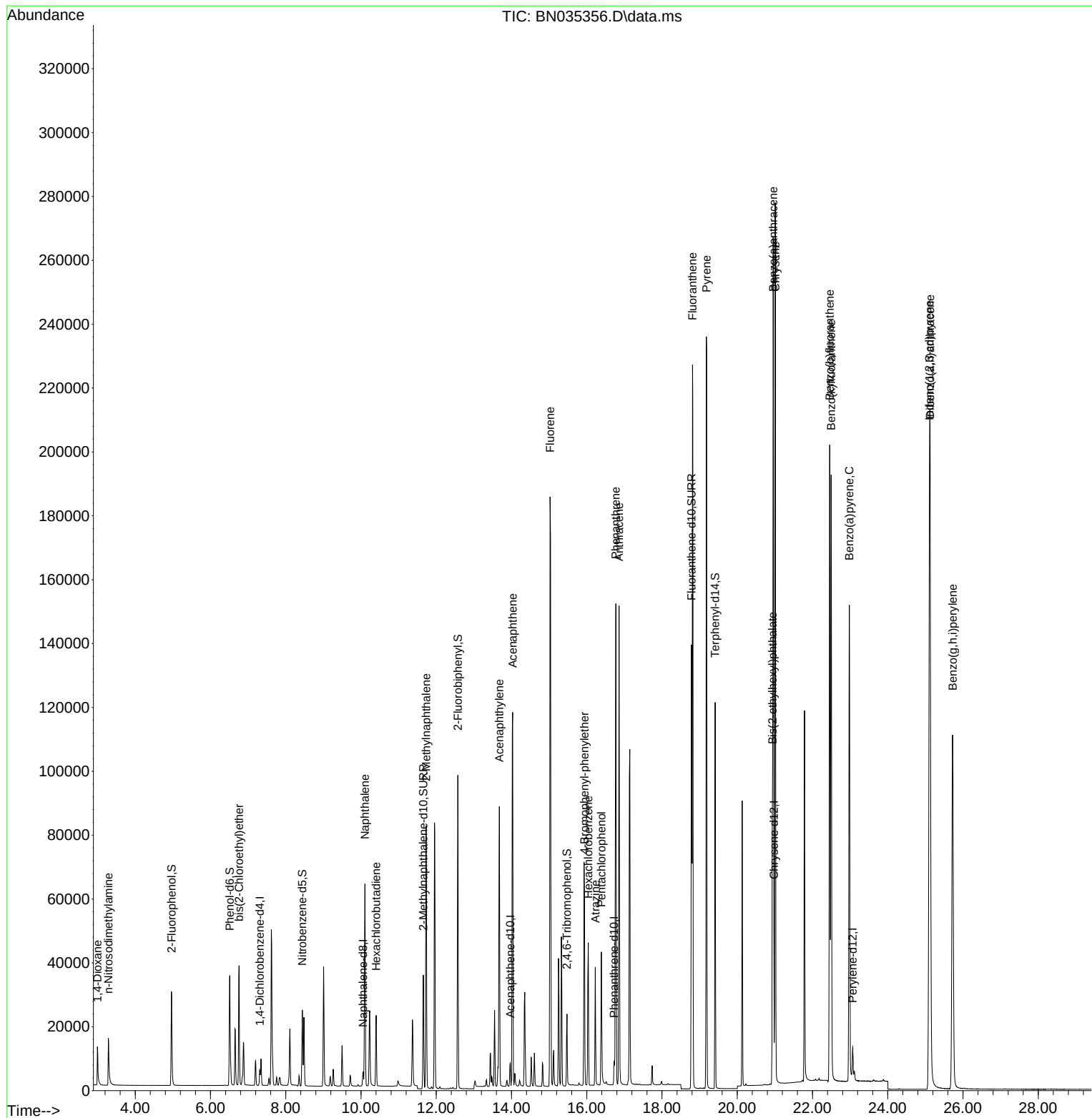
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.308  | 152  | 2249     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.052 | 136  | 5807     | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 13.967 | 164  | 4363     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 16.723 | 188  | 10479    | 0.400 | ng    | #-0.01   |
| 29) Chrysene-d12              | 20.974 | 240  | 11520    | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.067 | 264  | 12000    | 0.400 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 4.968  | 112  | 26472    | 4.637 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.513  | 99   | 34560    | 4.828 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.440  | 82   | 18911    | 3.741 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.656 | 152  | 47612    | 4.601 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.475 | 330  | 17905    | 5.689 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.574 | 172  | 82401    | 4.650 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 18.785 | 212  | 152416   | 4.748 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.412 | 244  | 110737   | 4.581 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| Target Compounds              |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 2.996  | 88   | 9786     | 4.790 | ng    | 99       |
| 3) n-Nitrosodimethylamine     | 3.285  | 42   | 8681     | 4.560 | ng    | # 96     |
| 6) bis(2-Chloroethyl)ether    | 6.759  | 93   | 27872    | 5.187 | ng    | 99       |
| 9) Naphthalene                | 10.105 | 128  | 77668    | 5.123 | ng    | 97       |
| 10) Hexachlorobutadiene       | 10.404 | 225  | 17273    | 3.887 | ng    | # 100    |
| 12) 2-Methylnaphthalene       | 11.732 | 142  | 57698    | 5.158 | ng    | 98       |
| 16) Acenaphthylene            | 13.679 | 152  | 97129    | 5.209 | ng    | 99       |
| 17) Acenaphthene              | 14.031 | 154  | 62170    | 5.088 | ng    | 98       |
| 18) Fluorene                  | 15.026 | 166  | 88648    | 4.932 | ng    | 99       |
| 21) 4-Bromophenyl-phenylether | 15.941 | 248  | 31947    | 4.785 | ng    | # 94     |
| 22) Hexachlorobenzene         | 16.040 | 284  | 36315    | 5.241 | ng    | 100      |
| 23) Atrazine                  | 16.227 | 200  | 25034    | 4.179 | ng    | 96       |
| 24) Pentachlorophenol         | 16.388 | 266  | 19691    | 6.083 | ng    | 86       |
| 25) Phenanthrene              | 16.773 | 178  | 147357   | 5.343 | ng    | 100      |
| 26) Anthracene                | 16.860 | 178  | 139399   | 5.503 | ng    | 99       |
| 28) Fluoranthene              | 18.812 | 202  | 199850   | 5.270 | ng    | 99       |
| 30) Pyrene                    | 19.179 | 202  | 206018   | 5.370 | ng    | 100      |
| 32) Benzo(a)anthracene        | 20.956 | 228  | 205712   | 5.128 | ng    | 99       |
| 33) Chrysene                  | 21.009 | 228  | 204475   | 5.146 | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 20.938 | 149  | 78322    | 3.721 | ng    | 99       |
| 36) Indeno(1,2,3-cd)pyrene    | 25.108 | 276  | 252709   | 5.279 | ng    | 99       |
| 37) Benzo(b)fluoranthene      | 22.456 | 252  | 241201   | 5.974 | ng    | # 94     |
| 38) Benzo(k)fluoranthene      | 22.497 | 252  | 220146   | 5.449 | ng    | # 93     |
| 39) Benzo(a)pyrene            | 22.977 | 252  | 190665   | 5.367 | ng    | # 92     |
| 40) Dibenzo(a,h)anthracene    | 25.126 | 278  | 199852   | 5.269 | ng    | 96       |
| 41) Benzo(g,h,i)perylene      | 25.725 | 276  | 209119   | 5.183 | ng    | 97       |
| -----                         |        |      |          |       |       |          |

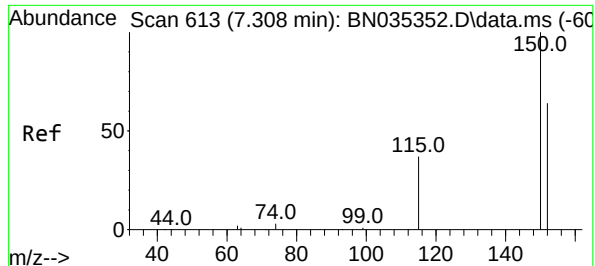
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112724\  
Data File : BN035356.D  
Acq On : 27 Nov 2024 19:09  
Operator : RC/JU  
Sample : SSTDICC5.0  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

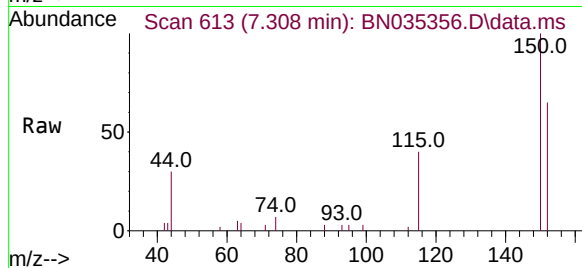
Quant Time: Nov 27 22:54:04 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Nov 27 22:48:24 2024  
Response via : Initial Calibration



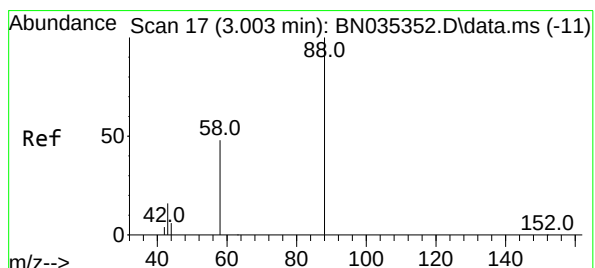
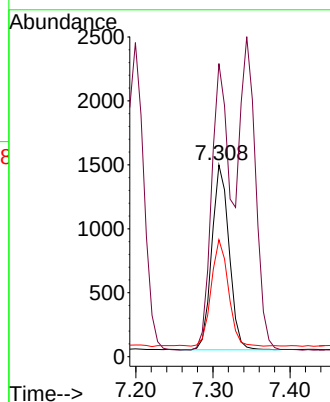
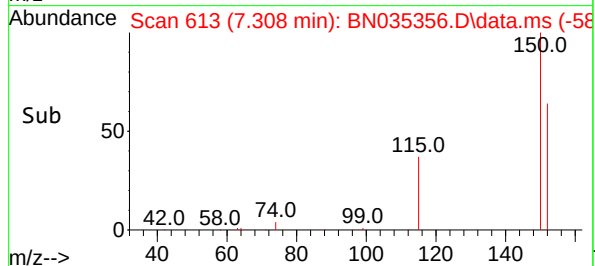


#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.308 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: BN035356.D  
Acq: 27 Nov 2024 19:09

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

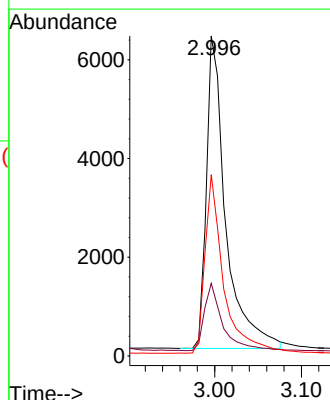
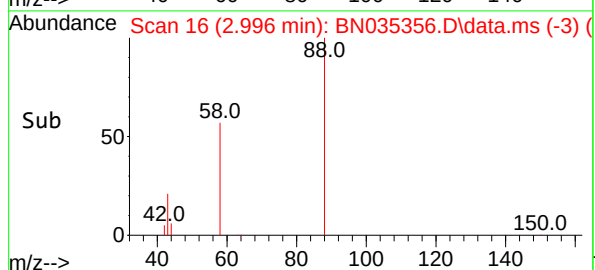
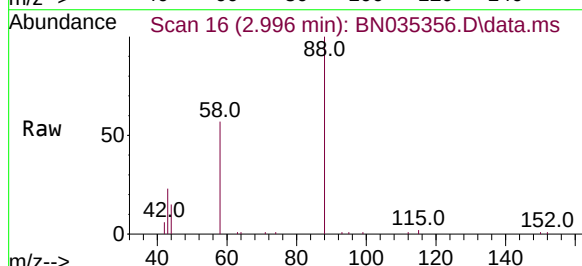


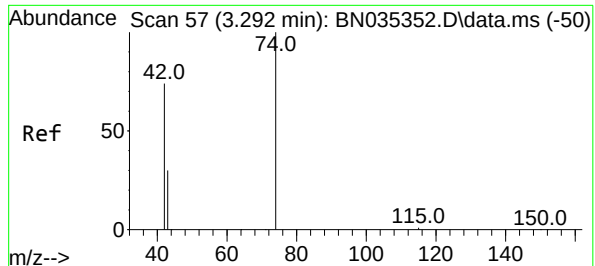
Tgt Ion:152 Resp: 2249  
Ion Ratio Lower Upper  
152 100  
150 152.9 124.0 186.0  
115 61.0 49.6 74.4



#2  
1,4-Dioxane  
Concen: 4.790 ng  
RT: 2.996 min Scan# 16  
Delta R.T. -0.007 min  
Lab File: BN035356.D  
Acq: 27 Nov 2024 19:09

Tgt Ion: 88 Resp: 9786  
Ion Ratio Lower Upper  
88 100  
43 20.5 17.2 25.8  
58 54.8 44.5 66.7

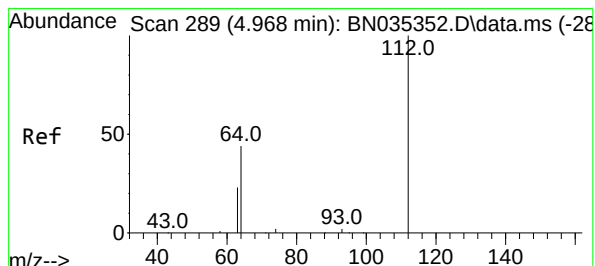
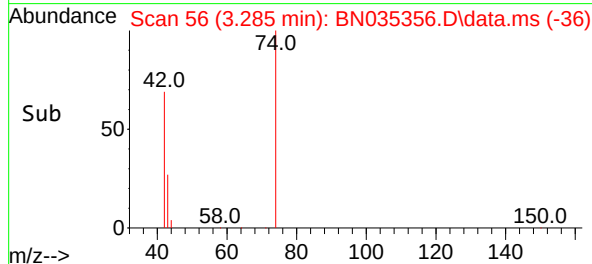
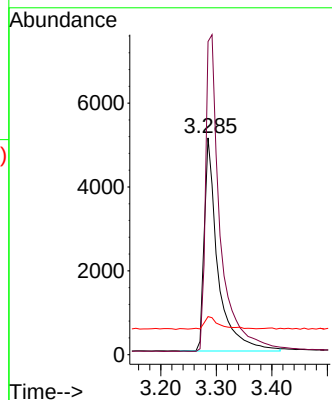
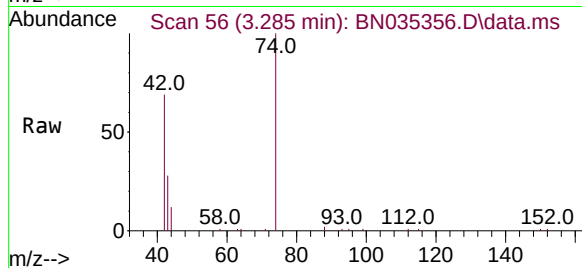




#3  
n-Nitrosodimethylamine  
Concen: 4.560 ng  
RT: 3.285 min Scan# 50  
Delta R.T. -0.007 min  
Lab File: BN035356.D  
Acq: 27 Nov 2024 19:09

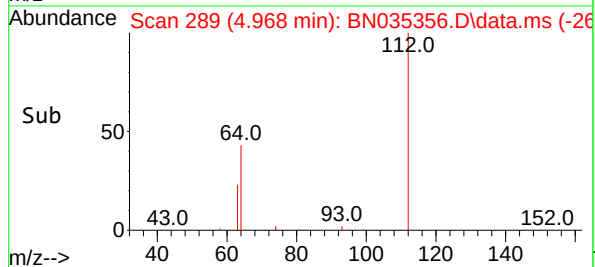
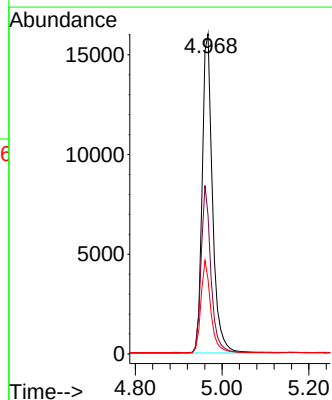
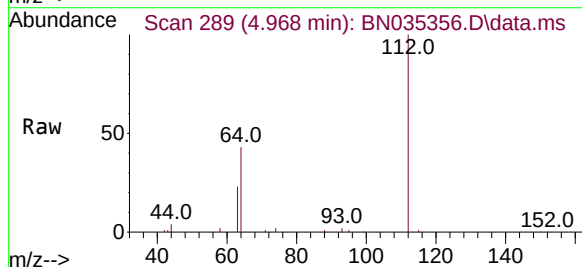
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

Tgt Ion: 42 Resp: 8681  
Ion Ratio Lower Upper  
42 100  
74 161.2 124.9 187.3  
44 6.7 2.2 3.4#

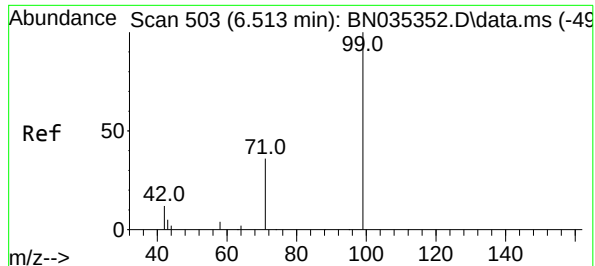


#4  
2-Fluorophenol  
Concen: 4.637 ng  
RT: 4.968 min Scan# 289  
Delta R.T. 0.000 min  
Lab File: BN035356.D  
Acq: 27 Nov 2024 19:09

Tgt Ion: 112 Resp: 26472  
Ion Ratio Lower Upper  
112 100  
64 50.0 39.8 59.8  
63 27.4 21.0 31.6



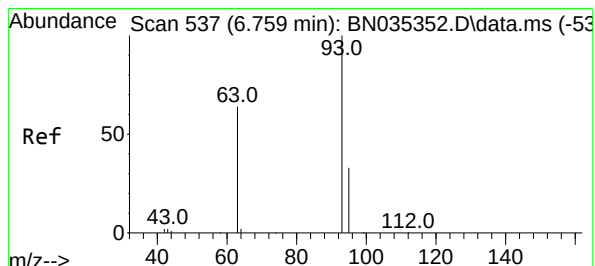
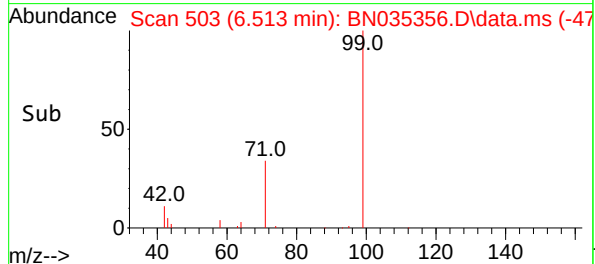
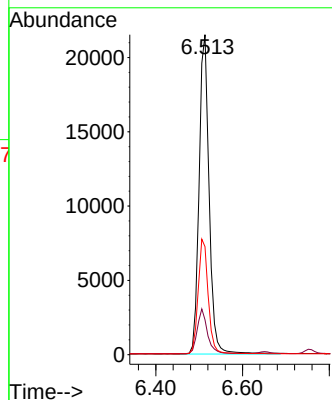
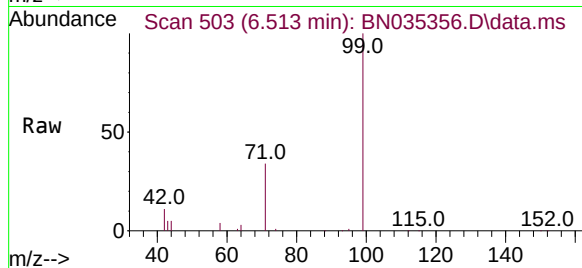




#5  
Phenol-d6  
Concen: 4.828 ng  
RT: 6.513 min Scan# 503  
Delta R.T. 0.000 min  
Lab File: BN035356.D  
Acq: 27 Nov 2024 19:09

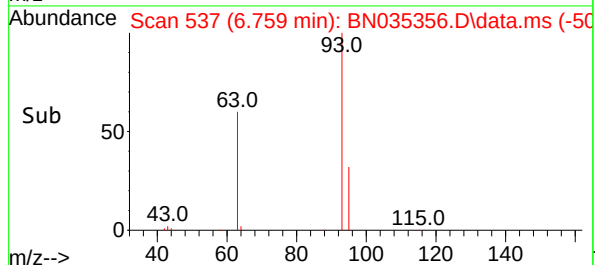
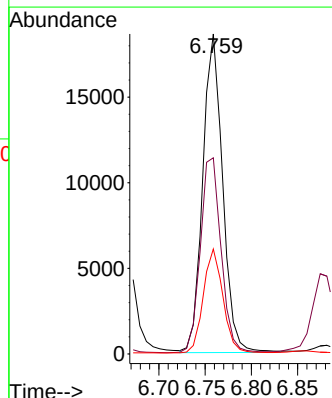
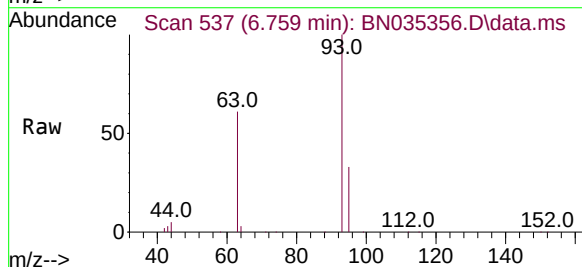
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

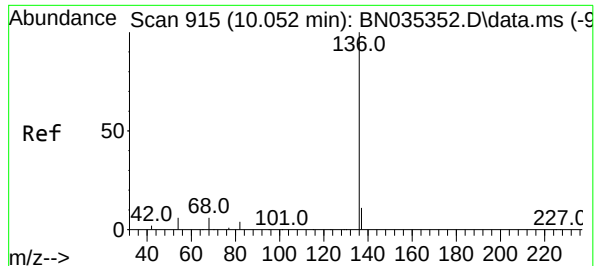
Tgt Ion: 99 Resp: 34560  
Ion Ratio Lower Upper  
99 100  
42 14.1 11.4 17.2  
71 36.4 29.3 43.9



#6  
bis(2-Chloroethyl)ether  
Concen: 5.187 ng  
RT: 6.759 min Scan# 537  
Delta R.T. 0.000 min  
Lab File: BN035356.D  
Acq: 27 Nov 2024 19:09

Tgt Ion: 93 Resp: 27872  
Ion Ratio Lower Upper  
93 100  
63 63.7 50.4 75.6  
95 32.1 25.7 38.5

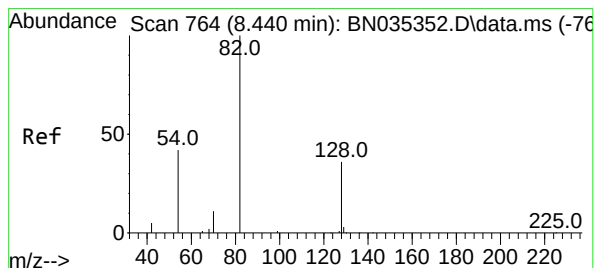
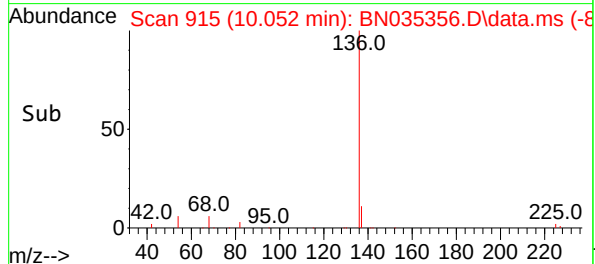
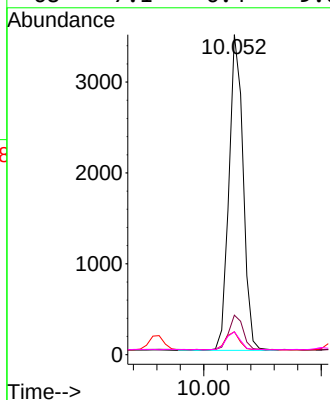
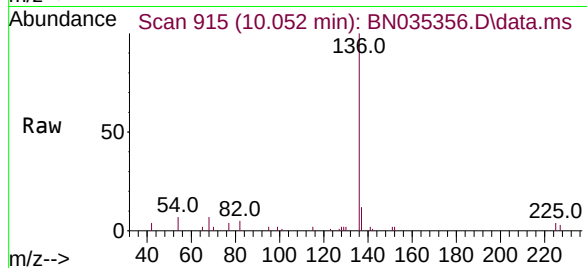




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.052 min Scan# 915  
Delta R.T. 0.000 min  
Lab File: BN035356.D  
Acq: 27 Nov 2024 19:09

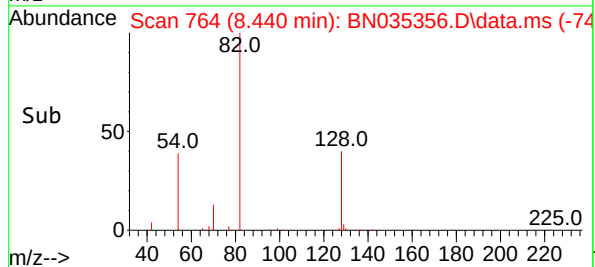
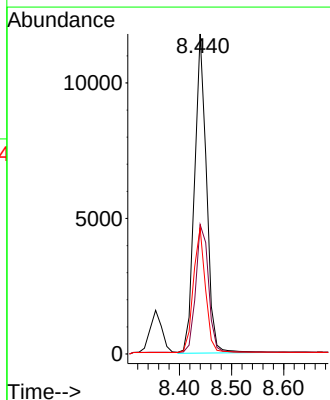
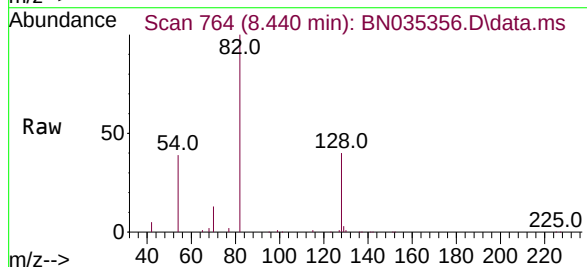
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

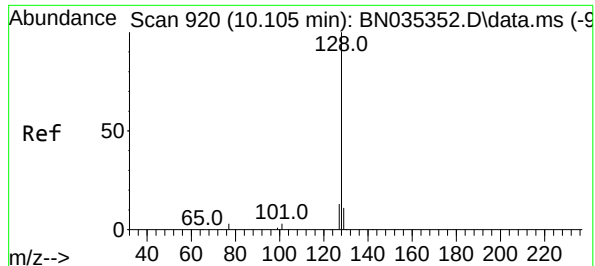
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 5807  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 12.4  | 10.2  | 15.2  |
| 54       | 7.1   | 6.1   | 9.1   |
| 68       | 7.1   | 6.4   | 9.6   |



#8  
Nitrobenzene-d5  
Concen: 3.741 ng  
RT: 8.440 min Scan# 764  
Delta R.T. 0.000 min  
Lab File: BN035356.D  
Acq: 27 Nov 2024 19:09

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 18911 |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 40.4  | 33.4  | 50.0  |
| 54       | 39.4  | 36.7  | 55.1  |

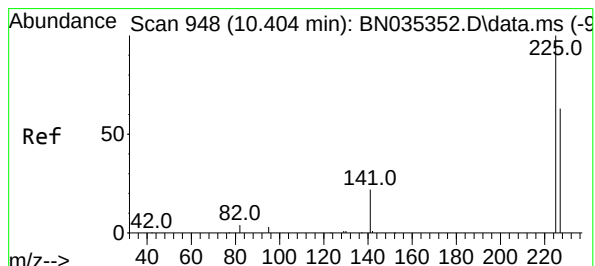
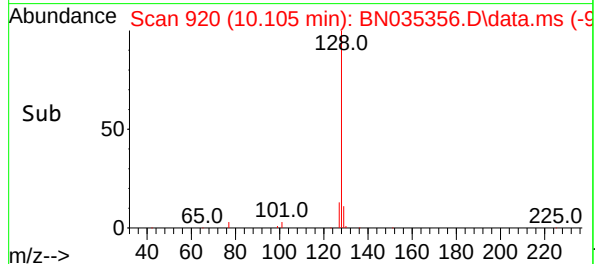
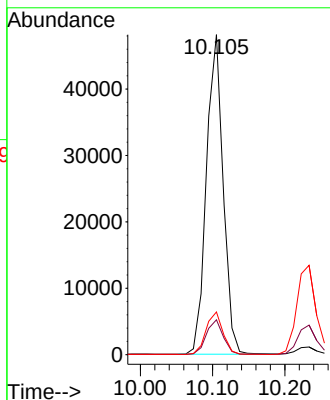
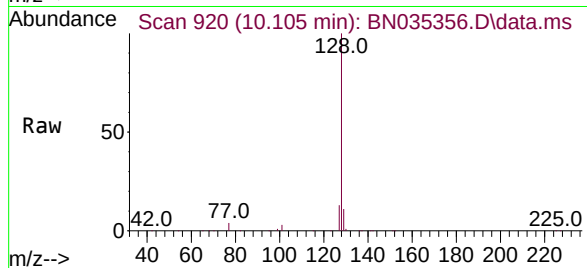




#9  
Naphthalene  
Concen: 5.123 ng  
RT: 10.105 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: BN035356.D  
Acq: 27 Nov 2024 19:09

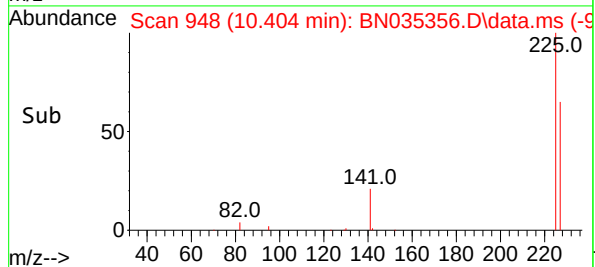
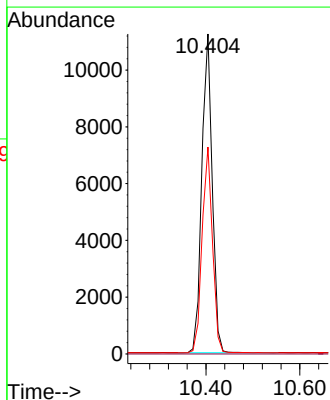
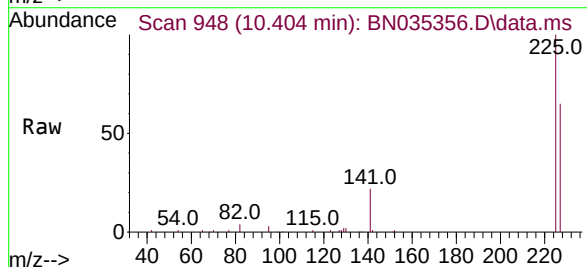
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

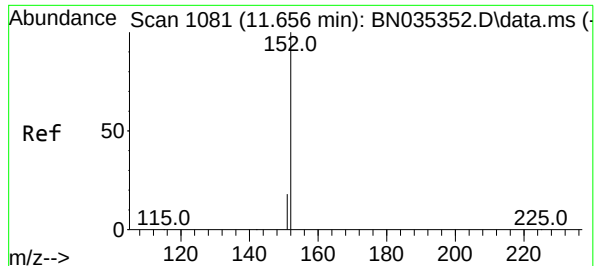
Tgt Ion:128 Resp: 77668  
Ion Ratio Lower Upper  
128 100  
129 10.9 9.8 14.6  
127 13.4 11.4 17.2



#10  
Hexachlorobutadiene  
Concen: 3.887 ng  
RT: 10.404 min Scan# 948  
Delta R.T. 0.000 min  
Lab File: BN035356.D  
Acq: 27 Nov 2024 19:09

Tgt Ion:225 Resp: 17273  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 64.2 51.3 76.9

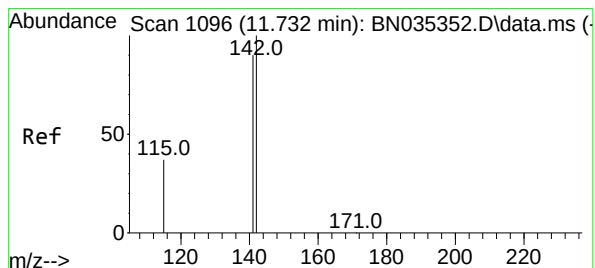
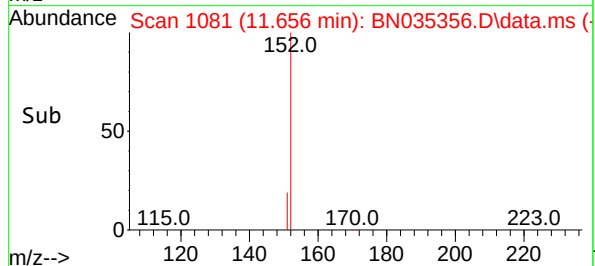
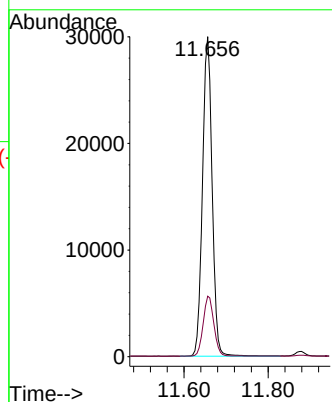
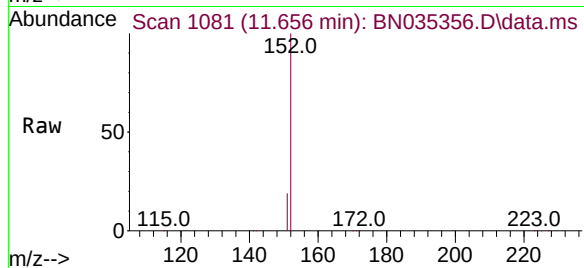




#11  
2-Methylnaphthalene-d10  
Concen: 4.601 ng  
RT: 11.656 min Scan# 1081  
Delta R.T. 0.000 min  
Lab File: BN035356.D  
Acq: 27 Nov 2024 19:09

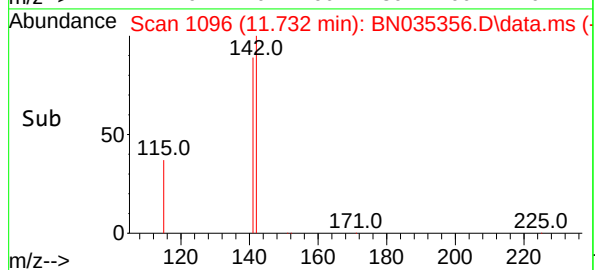
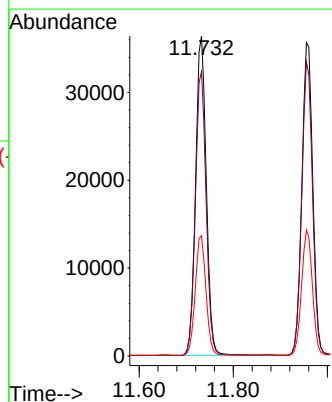
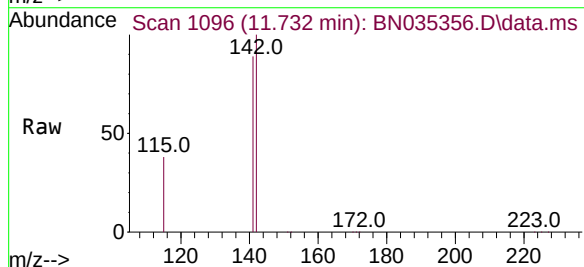
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

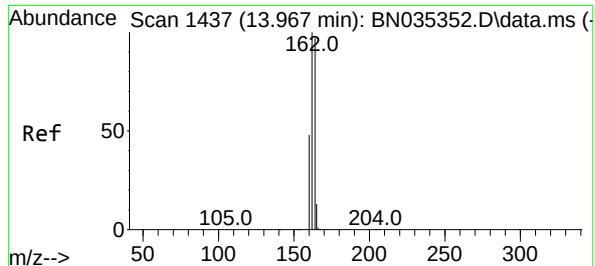
Tgt Ion:152 Resp: 47612  
Ion Ratio Lower Upper  
152 100  
151 20.8 16.6 25.0



#12  
2-Methylnaphthalene  
Concen: 5.158 ng  
RT: 11.732 min Scan# 1096  
Delta R.T. 0.000 min  
Lab File: BN035356.D  
Acq: 27 Nov 2024 19:09

Tgt Ion:142 Resp: 57698  
Ion Ratio Lower Upper  
142 100  
141 88.8 72.2 108.4  
115 37.6 31.4 47.0

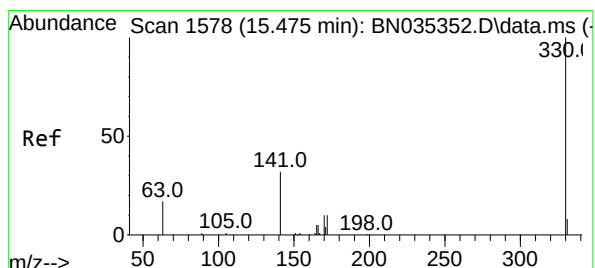
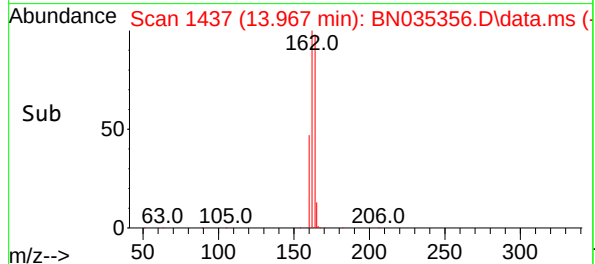
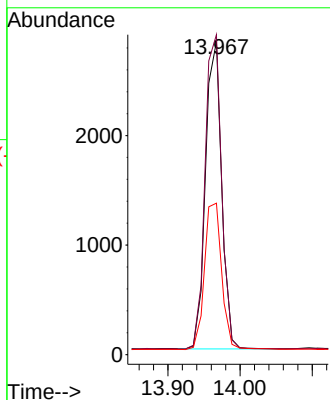
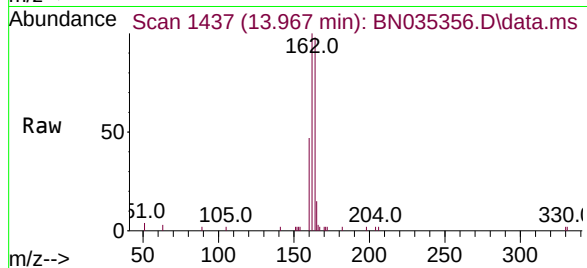




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.967 min Scan# 1437  
Delta R.T. 0.000 min  
Lab File: BN035356.D  
Acq: 27 Nov 2024 19:09

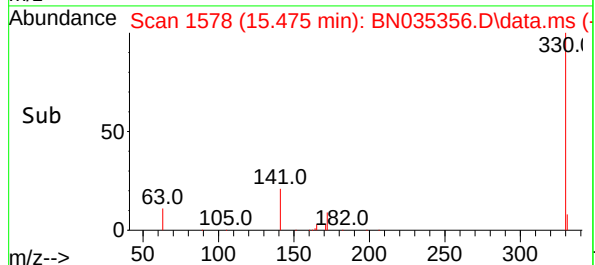
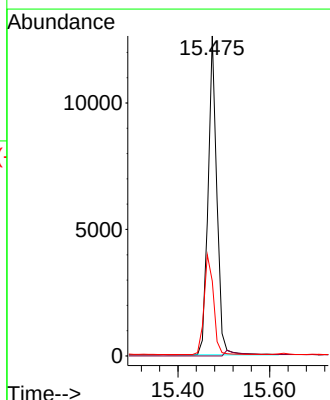
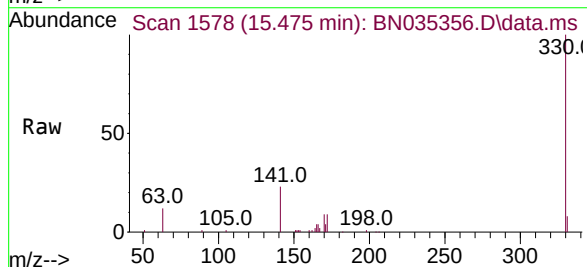
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

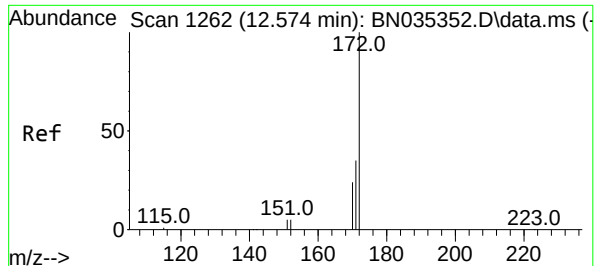
Tgt Ion:164 Resp: 4363  
Ion Ratio Lower Upper  
164 100  
162 102.2 82.2 123.2  
160 48.4 40.1 60.1



#14  
2,4,6-Tribromophenol  
Concen: 5.689 ng  
RT: 15.475 min Scan# 1578  
Delta R.T. 0.000 min  
Lab File: BN035356.D  
Acq: 27 Nov 2024 19:09

Tgt Ion:330 Resp: 17905  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 33.4 26.6 40.0

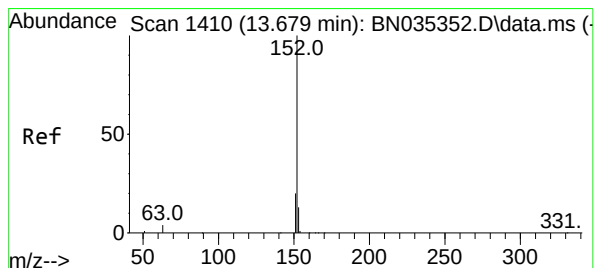
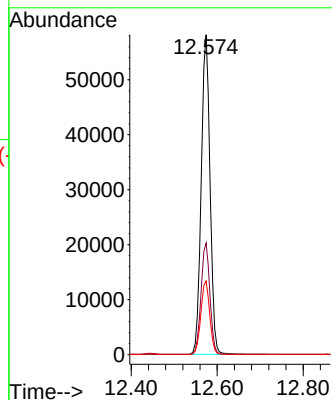
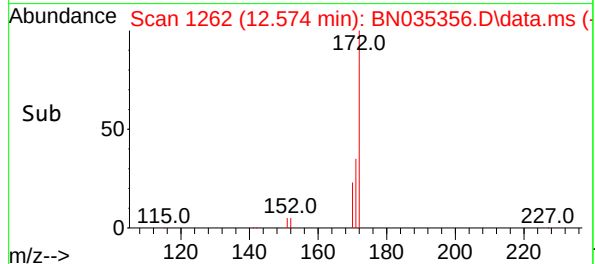
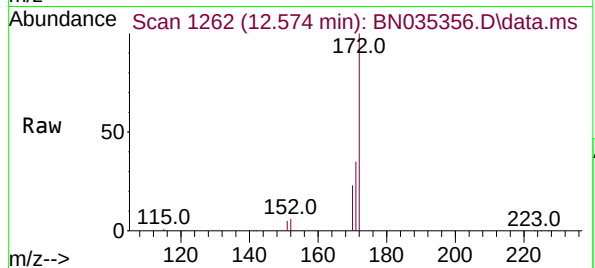




#15  
2-Fluorobiphenyl  
Concen: 4.650 ng  
RT: 12.574 min Scan# 1262  
Delta R.T. 0.000 min  
Lab File: BN035356.D  
Acq: 27 Nov 2024 19:09

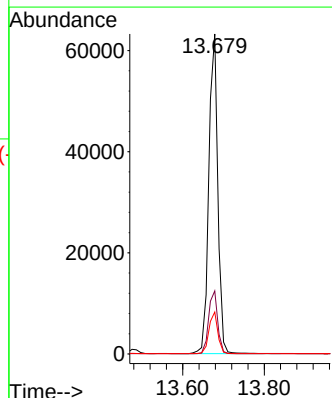
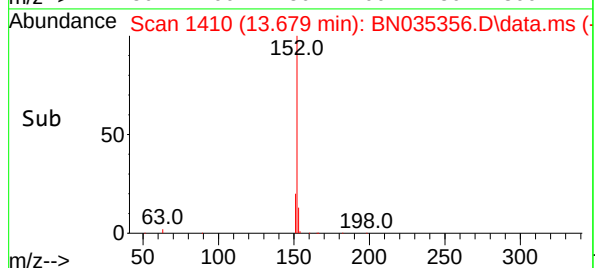
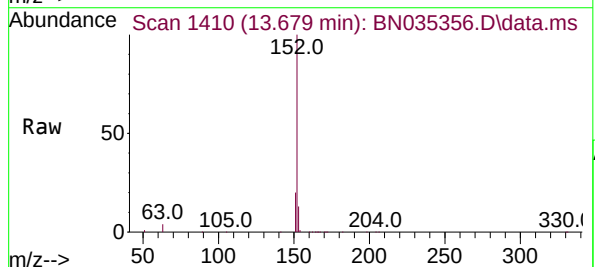
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

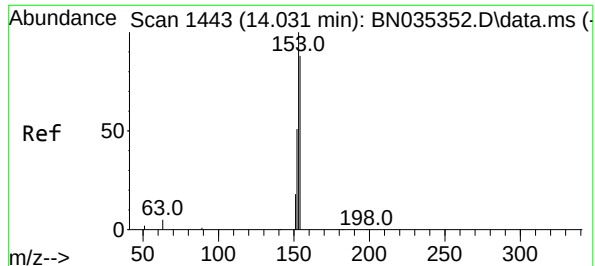
Tgt Ion:172 Resp: 82401  
Ion Ratio Lower Upper  
172 100  
171 34.9 29.0 43.4  
170 23.0 19.8 29.8



#16  
Acenaphthylene  
Concen: 5.209 ng  
RT: 13.679 min Scan# 1410  
Delta R.T. 0.000 min  
Lab File: BN035356.D  
Acq: 27 Nov 2024 19:09

Tgt Ion:152 Resp: 97129  
Ion Ratio Lower Upper  
152 100  
151 19.7 16.2 24.2  
153 12.9 10.4 15.6

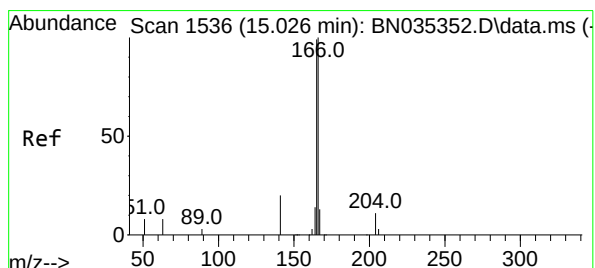
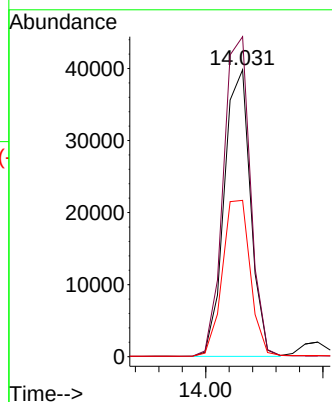
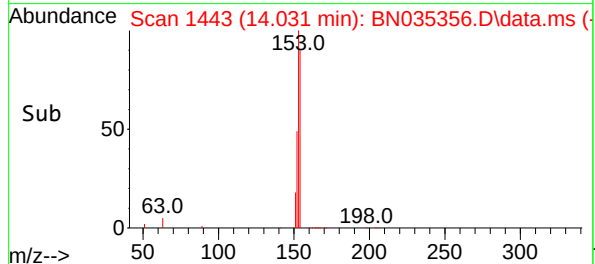
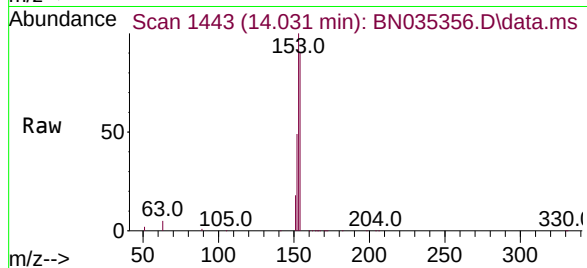




#17  
Acenaphthene  
Concen: 5.088 ng  
RT: 14.031 min Scan# 1443  
Delta R.T. 0.000 min  
Lab File: BN035356.D  
Acq: 27 Nov 2024 19:09

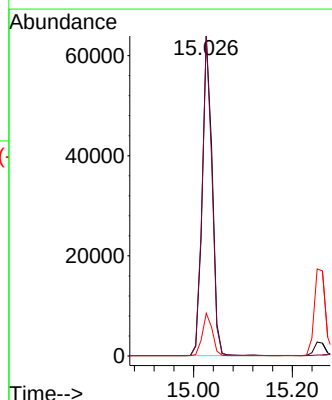
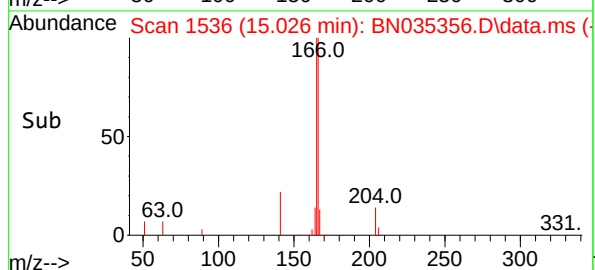
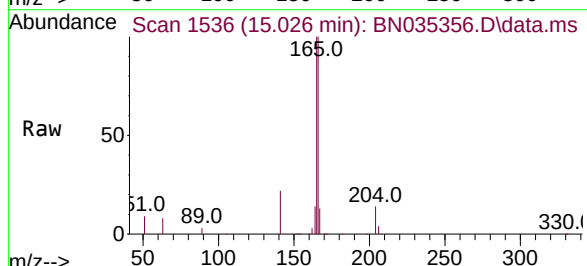
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

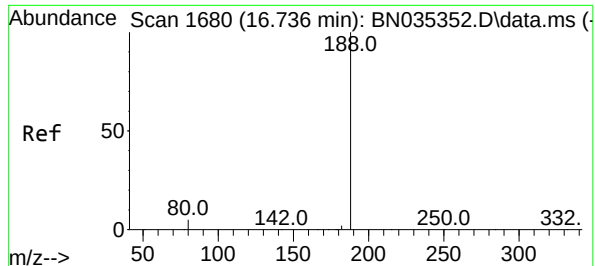
Tgt Ion:154 Resp: 62170  
Ion Ratio Lower Upper  
154 100  
153 114.7 92.6 139.0  
152 58.1 49.0 73.6



#18  
Fluorene  
Concen: 4.932 ng  
RT: 15.026 min Scan# 1536  
Delta R.T. 0.000 min  
Lab File: BN035356.D  
Acq: 27 Nov 2024 19:09

Tgt Ion:166 Resp: 88648  
Ion Ratio Lower Upper  
166 100  
165 98.5 79.7 119.5  
167 13.4 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.723 min Scan# 1

Delta R.T. -0.012 min

Lab File: BN035356.D

Acq: 27 Nov 2024 19:09

Instrument :

BNA\_N

ClientSampleId :

SSTDICC5.0

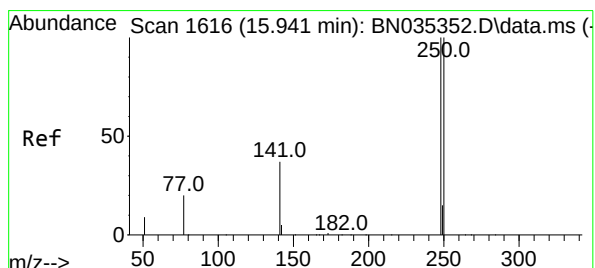
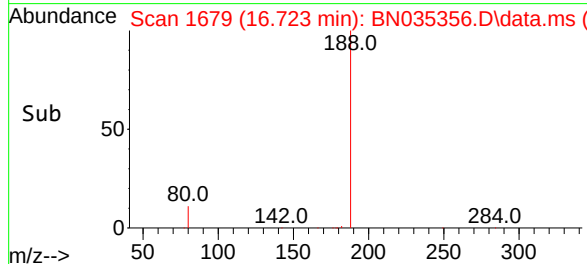
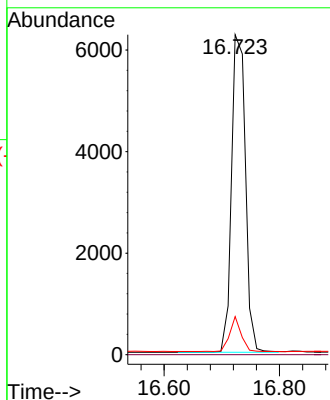
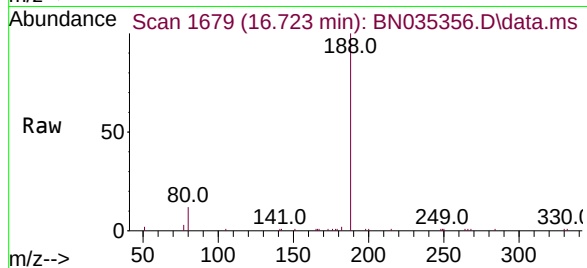
Tgt Ion:188 Resp: 10479

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.9 4.6 6.8#



#21

4-Bromophenyl-phenylether

Concen: 4.785 ng

RT: 15.941 min Scan# 1616

Delta R.T. 0.000 min

Lab File: BN035356.D

Acq: 27 Nov 2024 19:09

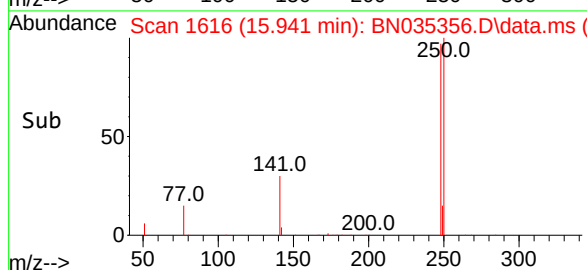
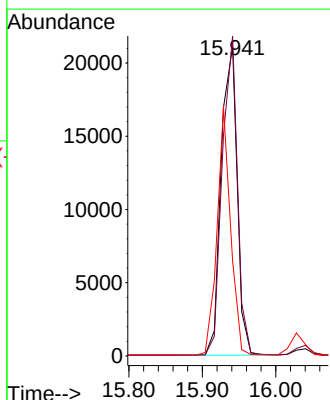
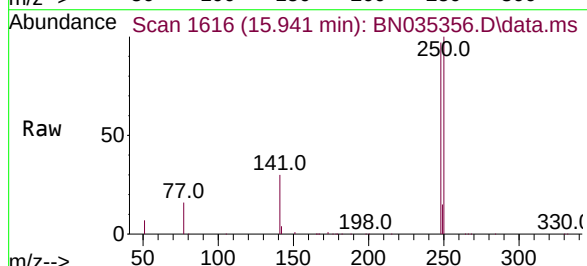
Tgt Ion:248 Resp: 31947

Ion Ratio Lower Upper

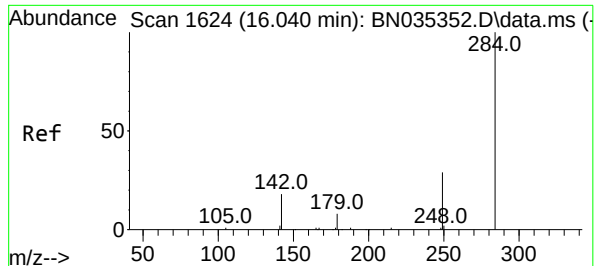
248 100

250 103.5 80.6 120.8

141 30.8 31.5 47.3#



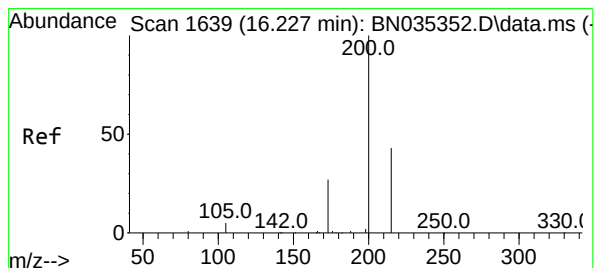
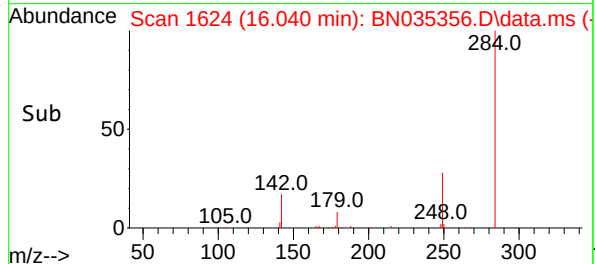
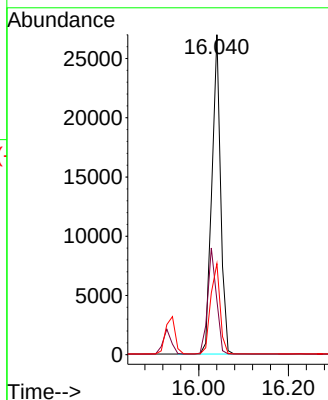
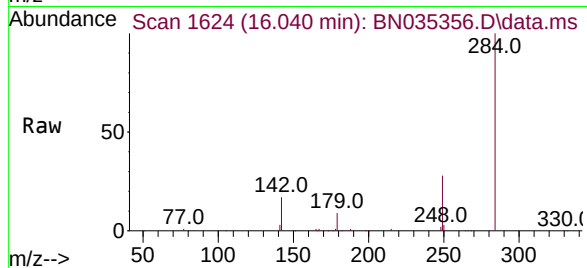




#22  
Hexachlorobenzene  
Concen: 5.241 ng  
RT: 16.040 min Scan# 1624  
Delta R.T. 0.000 min  
Lab File: BN035356.D  
Acq: 27 Nov 2024 19:09

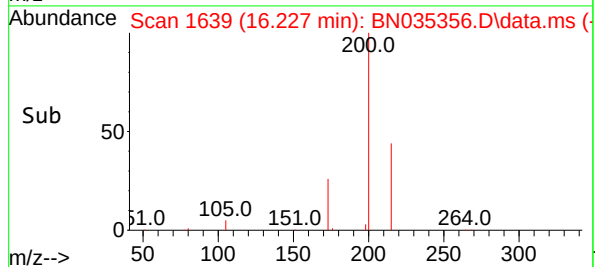
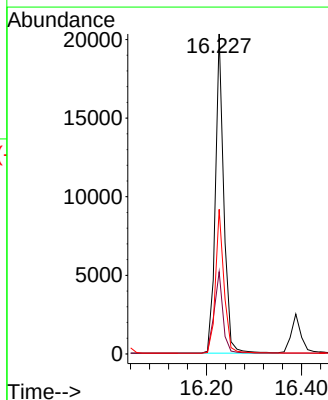
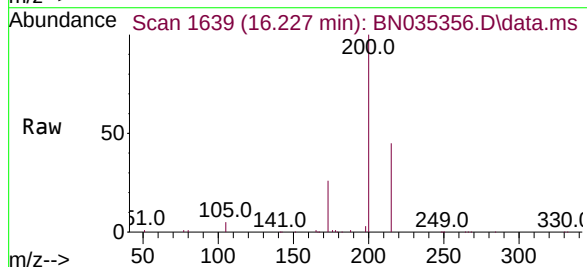
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

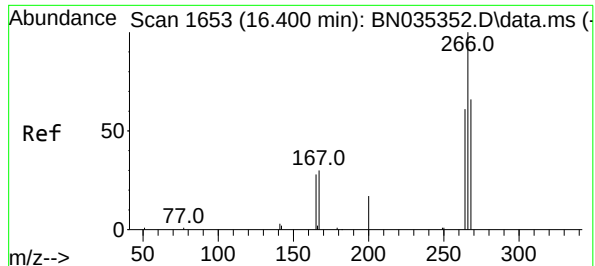
Tgt Ion:284 Resp: 36315  
Ion Ratio Lower Upper  
284 100  
142 33.4 26.7 40.1  
249 30.4 24.6 36.8



#23  
Atrazine  
Concen: 4.179 ng  
RT: 16.227 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: BN035356.D  
Acq: 27 Nov 2024 19:09

Tgt Ion:200 Resp: 25034  
Ion Ratio Lower Upper  
200 100  
173 25.7 24.1 36.1  
215 45.2 36.9 55.3





#24

Pentachlorophenol

Concen: 6.083 ng

RT: 16.388 min Scan# 1652

Delta R.T. -0.012 min

Lab File: BN035356.D

Acq: 27 Nov 2024 19:09

Instrument :

BNA\_N

ClientSampleId :

SSTDICC5.0

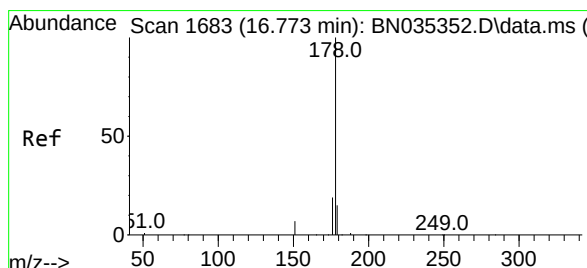
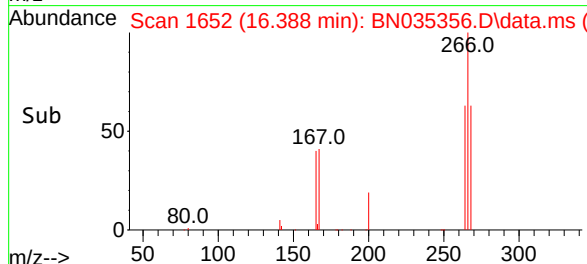
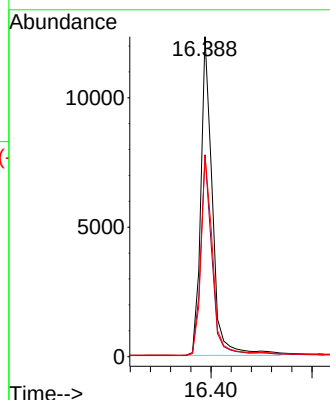
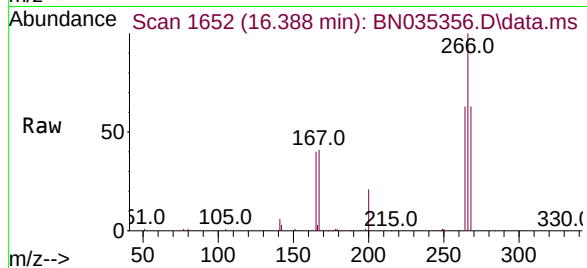
Tgt Ion:266 Resp: 19691

Ion Ratio Lower Upper

266 100

264 62.6 42.3 63.5

268 64.1 43.3 64.9



#25

Phenanthrene

Concen: 5.343 ng

RT: 16.773 min Scan# 1683

Delta R.T. 0.000 min

Lab File: BN035356.D

Acq: 27 Nov 2024 19:09

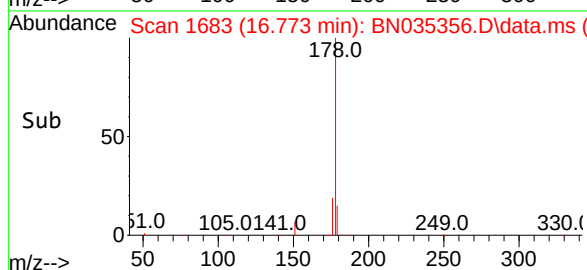
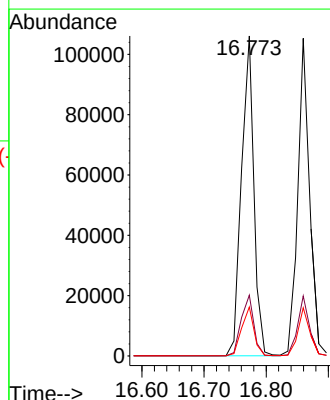
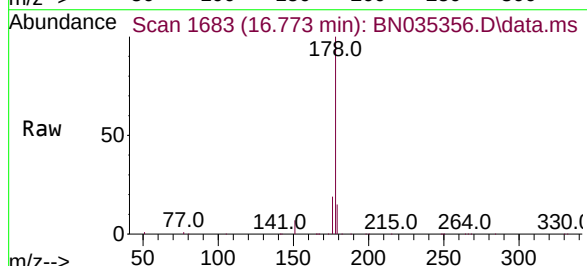
Tgt Ion:178 Resp: 147357

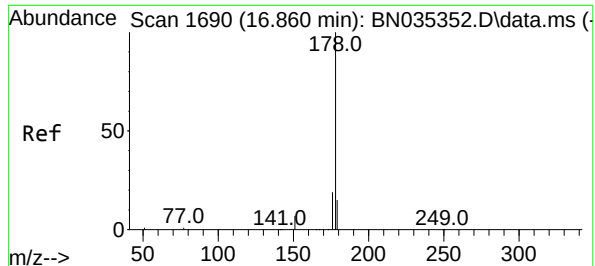
Ion Ratio Lower Upper

178 100

176 19.4 15.4 23.2

179 15.2 12.3 18.5

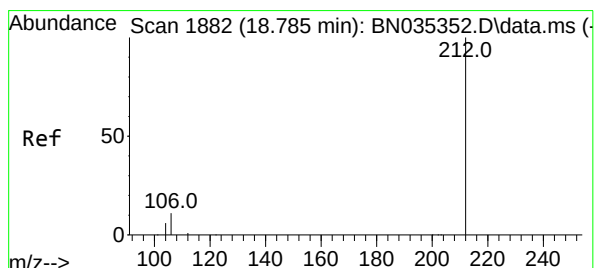
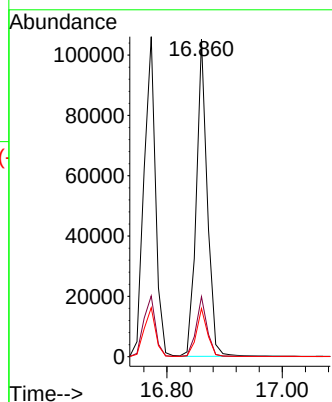
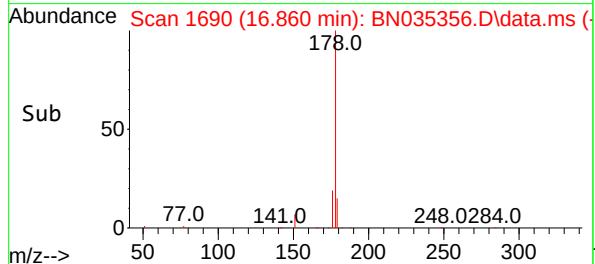
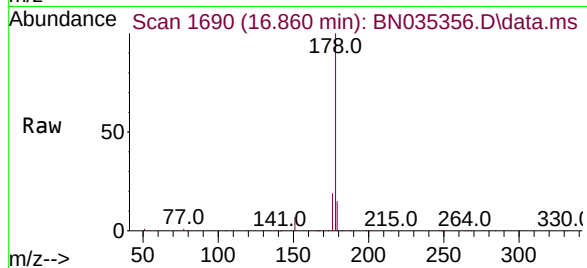




#26  
Anthracene  
Concen: 5.503 ng  
RT: 16.860 min Scan# 1690  
Delta R.T. 0.000 min  
Lab File: BN035356.D  
Acq: 27 Nov 2024 19:09

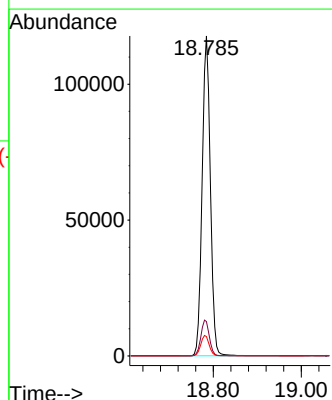
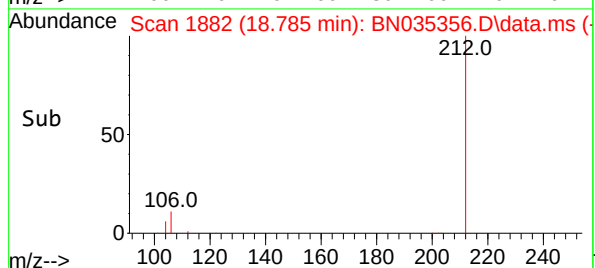
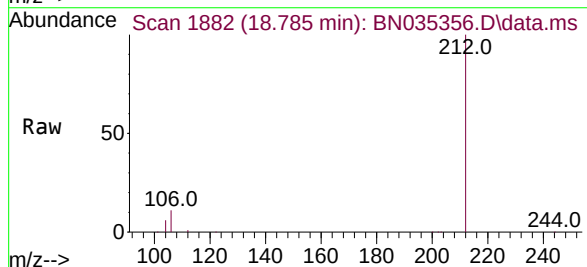
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

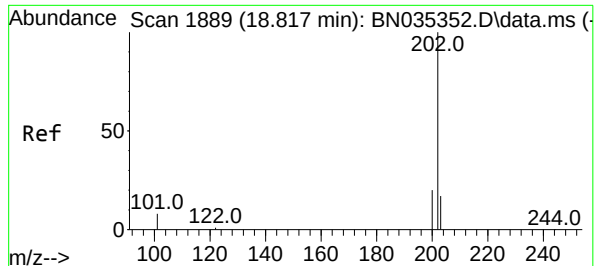
Tgt Ion:178 Resp: 139399  
Ion Ratio Lower Upper  
178 100  
176 18.7 15.0 22.6  
179 15.1 12.6 18.8



#27  
Fluoranthene-d10  
Concen: 4.748 ng  
RT: 18.785 min Scan# 1882  
Delta R.T. 0.000 min  
Lab File: BN035356.D  
Acq: 27 Nov 2024 19:09

Tgt Ion:212 Resp: 152416  
Ion Ratio Lower Upper  
212 100  
106 11.5 9.2 13.8  
104 6.5 5.3 7.9

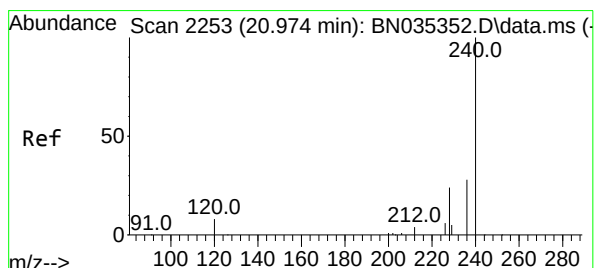
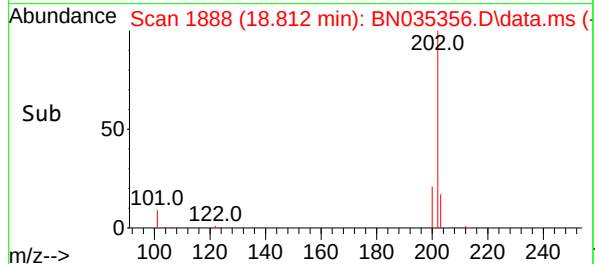
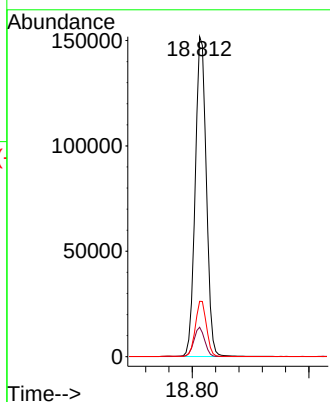
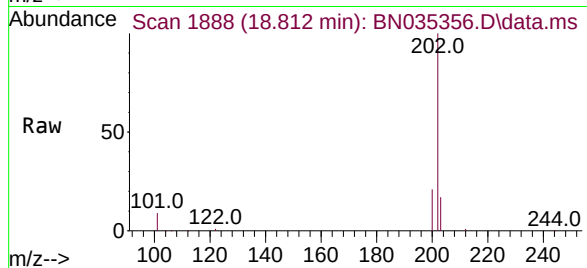




#28  
Fluoranthene  
Concen: 5.270 ng  
RT: 18.812 min Scan# 1888  
Delta R.T. -0.005 min  
Lab File: BN035356.D  
Acq: 27 Nov 2024 19:09

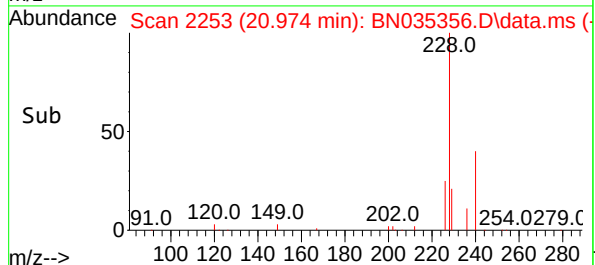
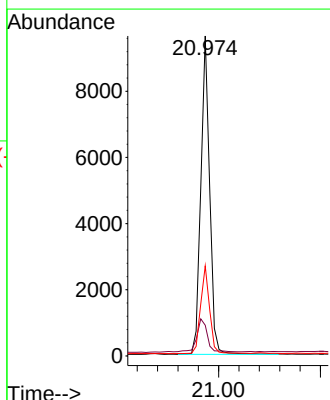
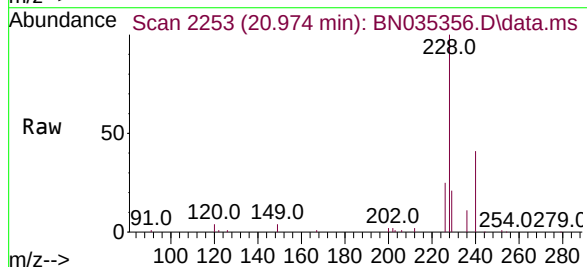
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

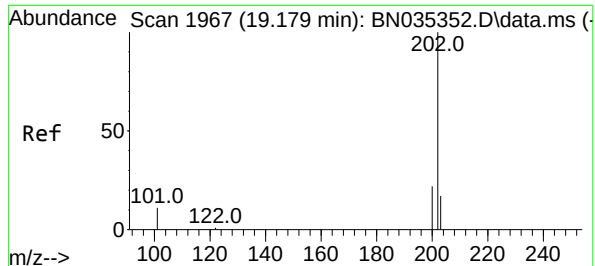
Tgt Ion:202 Resp: 199850  
Ion Ratio Lower Upper  
202 100  
101 9.1 7.4 11.0  
203 17.4 13.7 20.5



#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 20.974 min Scan# 2253  
Delta R.T. 0.000 min  
Lab File: BN035356.D  
Acq: 27 Nov 2024 19:09

Tgt Ion:240 Resp: 11520  
Ion Ratio Lower Upper  
240 100  
120 9.6 7.9 11.9  
236 28.1 22.9 34.3





#30

Pyrene

Concen: 5.370 ng

RT: 19.179 min Scan# 1967

Delta R.T. 0.000 min

Lab File: BN035356.D

Acq: 27 Nov 2024 19:09

Instrument :

BNA\_N

ClientSampleId :

SSTDICC5.0

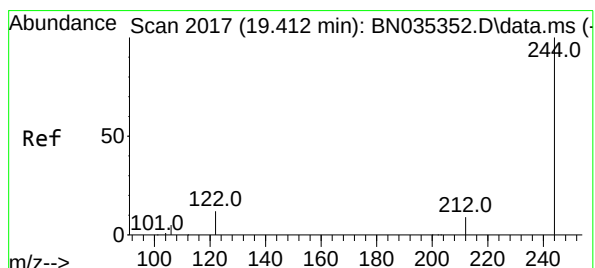
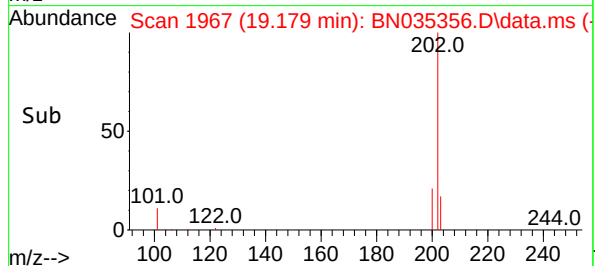
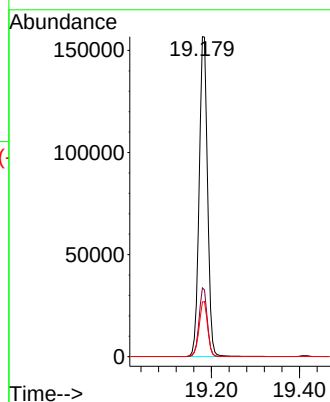
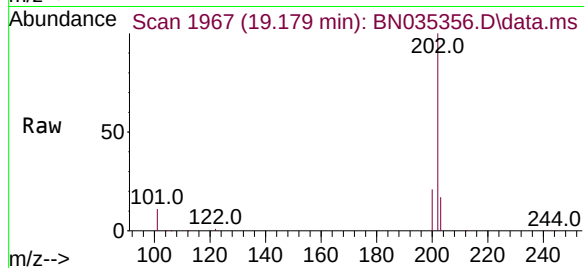
Tgt Ion:202 Resp: 206018

Ion Ratio Lower Upper

202 100

200 21.2 17.0 25.4

203 17.7 14.3 21.5



#31

Terphenyl-d14

Concen: 4.581 ng

RT: 19.412 min Scan# 2017

Delta R.T. 0.000 min

Lab File: BN035356.D

Acq: 27 Nov 2024 19:09

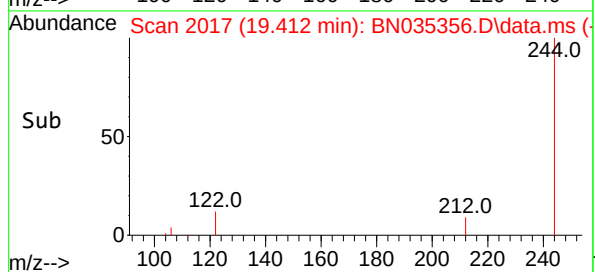
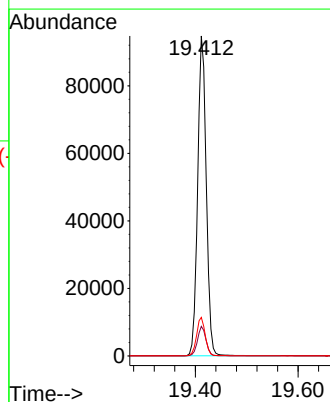
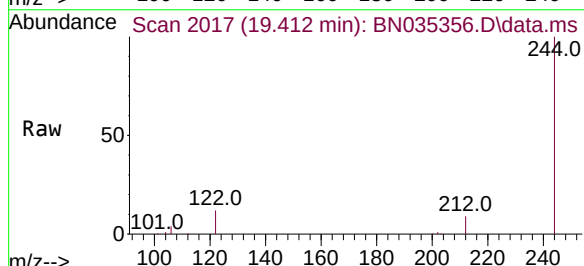
Tgt Ion:244 Resp: 110737

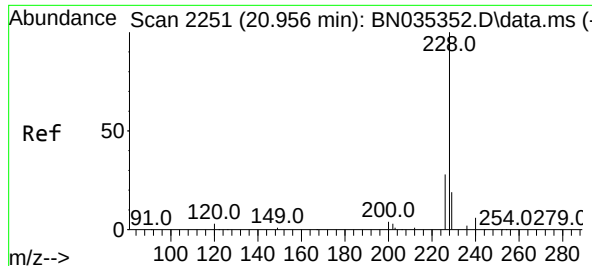
Ion Ratio Lower Upper

244 100

212 9.2 8.1 12.1

122 12.1 10.3 15.5

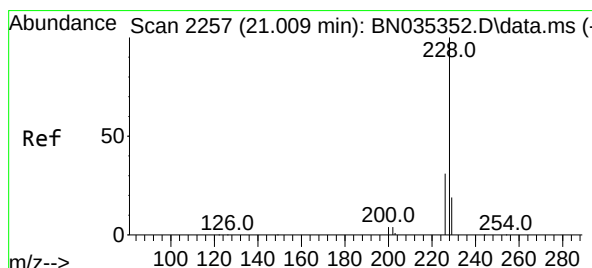
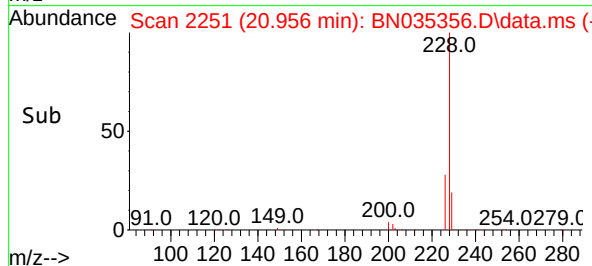
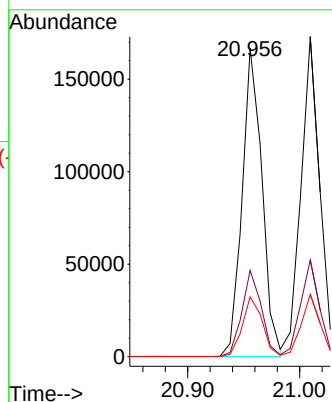
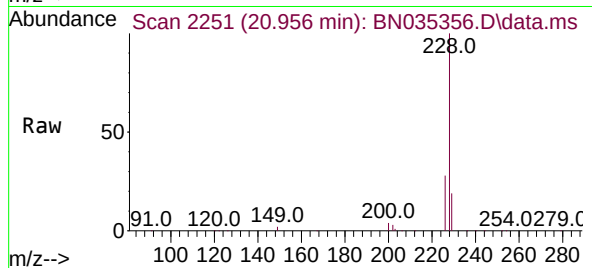




#32  
Benzo(a)anthracene  
Concen: 5.128 ng  
RT: 20.956 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: BN035356.D  
Acq: 27 Nov 2024 19:09

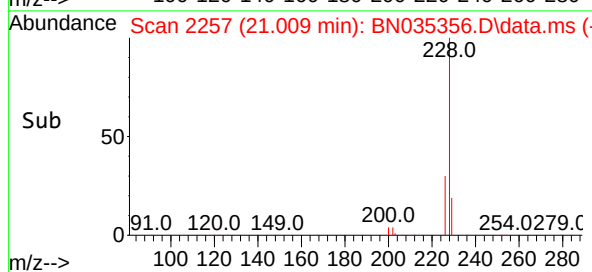
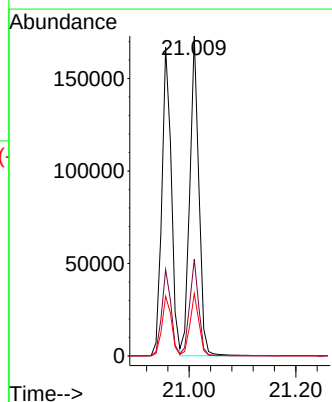
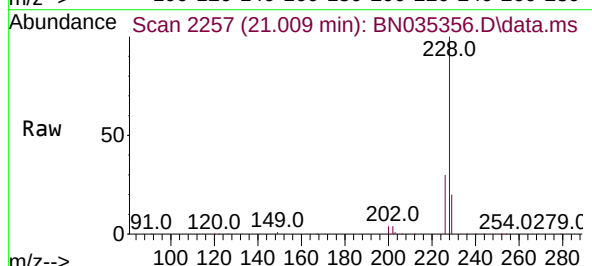
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

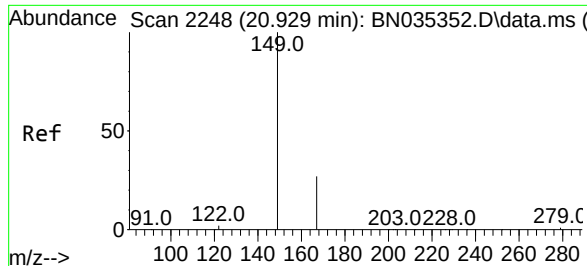
Tgt Ion:228 Resp: 205712  
Ion Ratio Lower Upper  
228 100  
226 27.9 22.5 33.7  
229 19.4 15.8 23.8



#33  
Chrysene  
Concen: 5.146 ng  
RT: 21.009 min Scan# 2257  
Delta R.T. 0.000 min  
Lab File: BN035356.D  
Acq: 27 Nov 2024 19:09

Tgt Ion:228 Resp: 204475  
Ion Ratio Lower Upper  
228 100  
226 30.2 24.6 37.0  
229 19.5 15.9 23.9

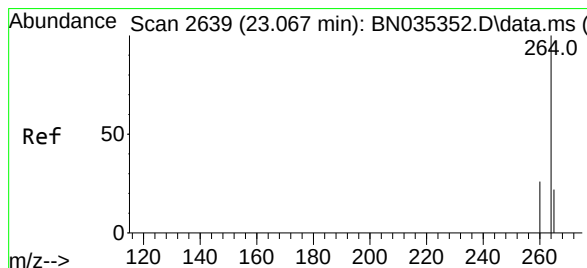
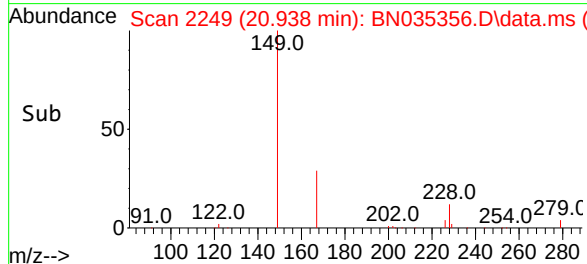
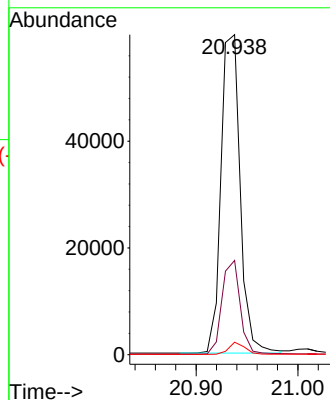
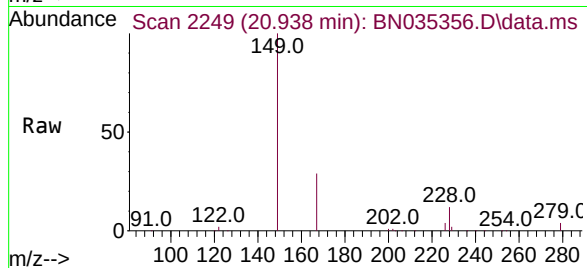




#34  
Bis(2-ethylhexyl)phthalate  
Concen: 3.721 ng  
RT: 20.938 min Scan# 21  
Delta R.T. 0.009 min  
Lab File: BN035356.D  
Acq: 27 Nov 2024 19:09

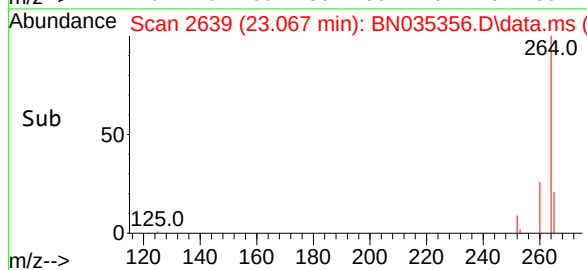
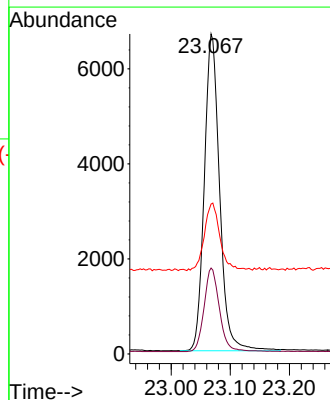
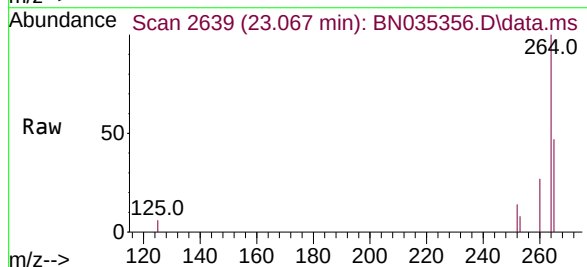
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

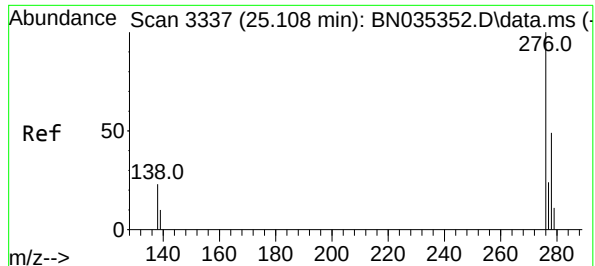
Tgt Ion:149 Resp: 78322  
Ion Ratio Lower Upper  
149 100  
167 28.1 22.2 33.4  
279 3.2 2.7 4.1



#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.067 min Scan# 2639  
Delta R.T. 0.000 min  
Lab File: BN035356.D  
Acq: 27 Nov 2024 19:09

Tgt Ion:264 Resp: 12000  
Ion Ratio Lower Upper  
264 100  
260 26.9 21.4 32.2  
265 46.8 40.2 60.4





#36

Indeno(1,2,3-cd)pyrene

Concen: 5.279 ng

RT: 25.108 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN035356.D

Acq: 27 Nov 2024 19:09

Instrument :

BNA\_N

ClientSampleId :

SSTDICC5.0

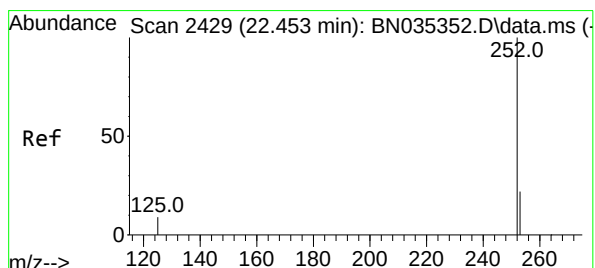
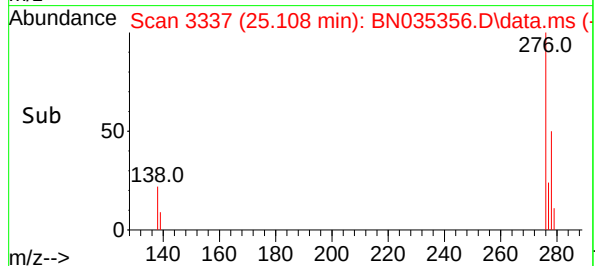
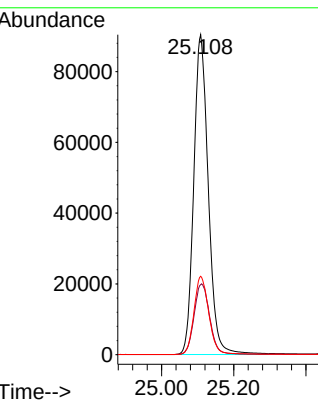
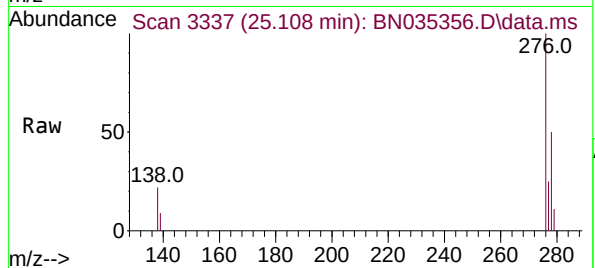
Tgt Ion:276 Resp: 252709

Ion Ratio Lower Upper

276 100

138 23.7 19.4 29.0

277 25.0 19.8 29.6



#37

Benzo(b)fluoranthene

Concen: 5.974 ng

RT: 22.456 min Scan# 2430

Delta R.T. 0.003 min

Lab File: BN035356.D

Acq: 27 Nov 2024 19:09

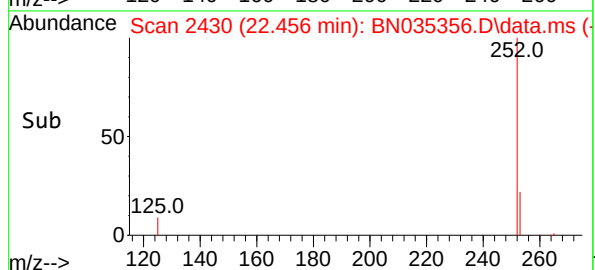
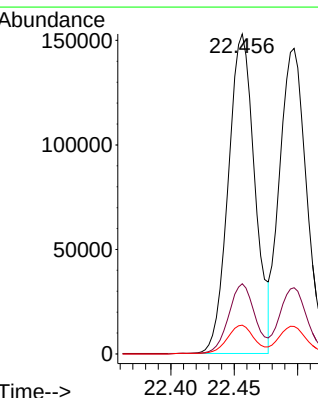
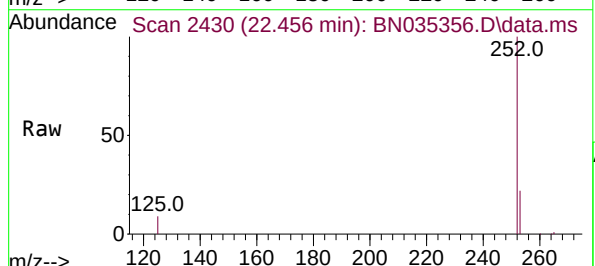
Tgt Ion:252 Resp: 241201

Ion Ratio Lower Upper

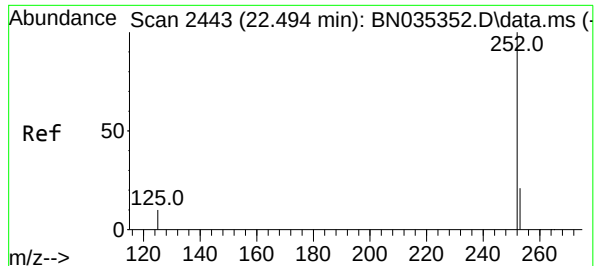
252 100

253 22.0 19.6 29.4

125 9.0 9.6 14.4#

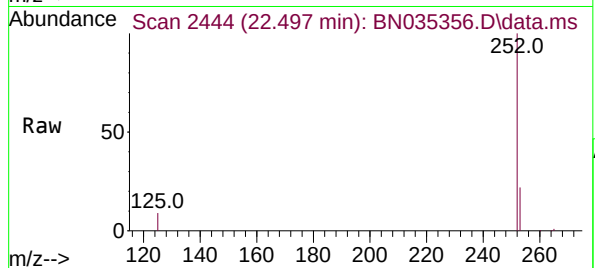




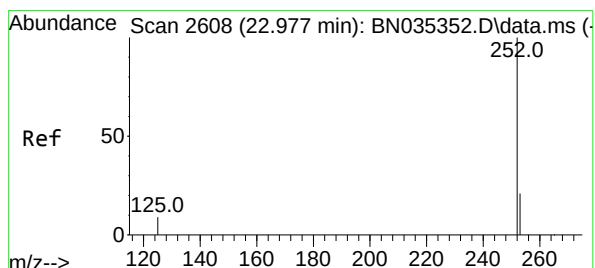
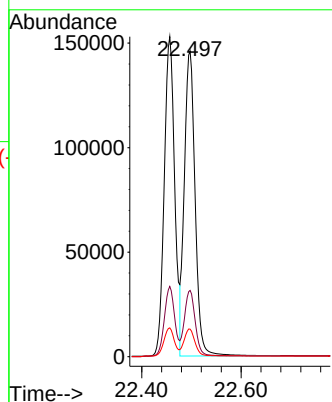


#38  
Benzo(k)fluoranthene  
Concen: 5.449 ng  
RT: 22.497 min Scan# 2444  
Delta R.T. 0.003 min  
Lab File: BN035356.D  
Acq: 27 Nov 2024 19:09

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

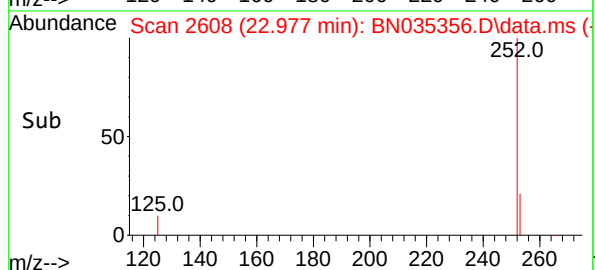
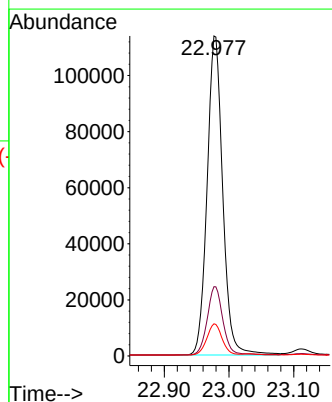
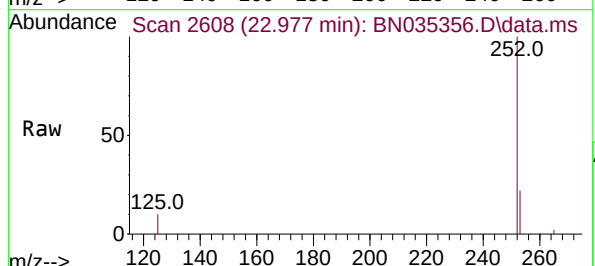


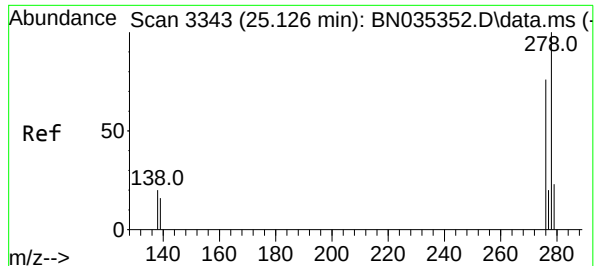
Tgt Ion:252 Resp: 220146  
Ion Ratio Lower Upper  
252 100  
253 21.7 19.5 29.3  
125 9.0 10.2 15.4#



#39  
Benzo(a)pyrene  
Concen: 5.367 ng  
RT: 22.977 min Scan# 2608  
Delta R.T. 0.000 min  
Lab File: BN035356.D  
Acq: 27 Nov 2024 19:09

Tgt Ion:252 Resp: 190665  
Ion Ratio Lower Upper  
252 100  
253 21.6 20.2 30.4  
125 10.0 10.9 16.3#





#40

Dibenzo(a,h)anthracene

Concen: 5.269 ng

RT: 25.126 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN035356.D

Acq: 27 Nov 2024 19:09

Instrument :

BNA\_N

ClientSampleId :

SSTDICC5.0

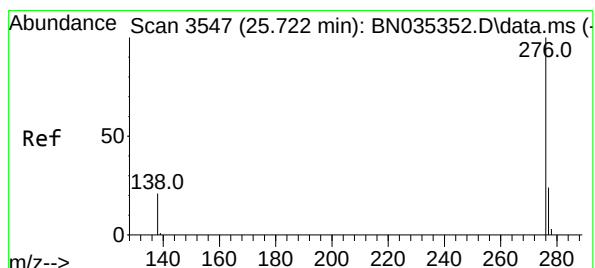
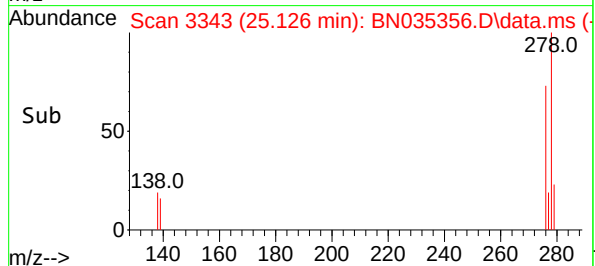
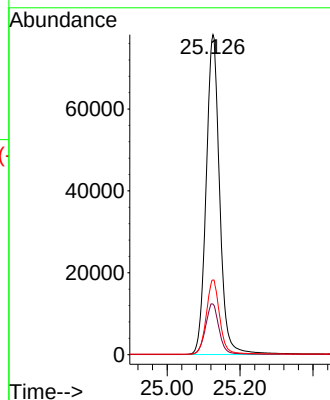
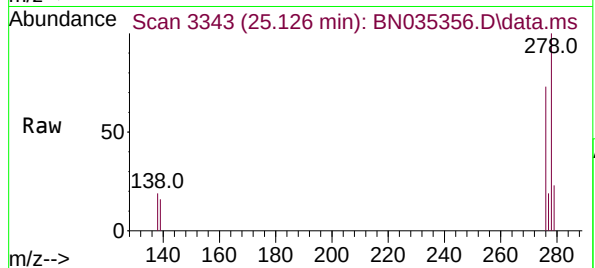
Tgt Ion:278 Resp: 199852

Ion Ratio Lower Upper

278 100

139 15.8 14.2 21.4

279 23.3 20.5 30.7



#41

Benzo(g,h,i)perylene

Concen: 5.183 ng

RT: 25.725 min Scan# 3548

Delta R.T. 0.003 min

Lab File: BN035356.D

Acq: 27 Nov 2024 19:09

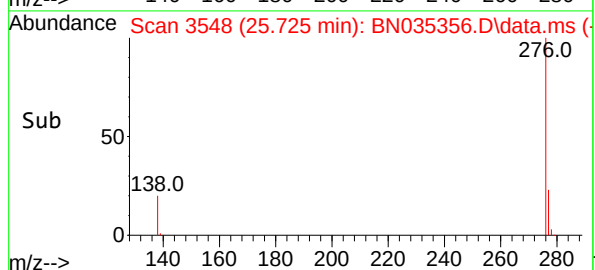
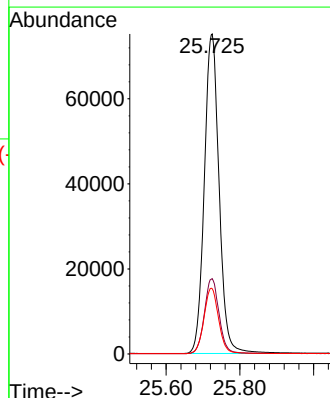
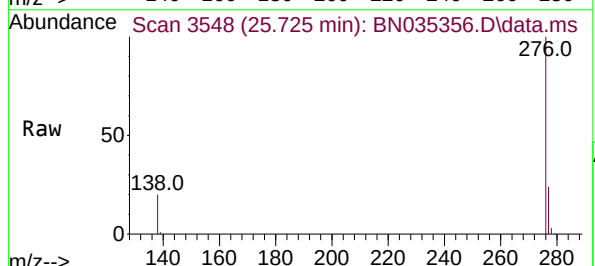
Tgt Ion:276 Resp: 209119

Ion Ratio Lower Upper

276 100

277 23.5 19.9 29.9

138 20.4 17.8 26.8



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112724\  
 Data File : BN035357.D  
 Acq On : 27 Nov 2024 20:21  
 Operator : RC/JU  
 Sample : SSTDICV0.4  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

## Instrument :

BNA\_N

## ClientSampleId :

ICVBN112724

## Manual Integrations

## APPROVED

Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024

Quant Time: Nov 27 23:06:03 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Nov 27 23:03:24 2024

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.308  | 152  | 1540     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.052 | 136  | 3904     | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 13.967 | 164  | 2879     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 16.723 | 188  | 7350     | 0.400 | ng    | #-0.01   |
| 29) Chrysene-d12              | 20.974 | 240  | 7576     | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.067 | 264  | 8338     | 0.400 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 4.968  | 112  | 1280     | 0.332 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.513  | 99   | 1437     | 0.310 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.440  | 82   | 938m     | 0.393 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.656 | 152  | 2565     | 0.420 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.475 | 330  | 617      | 0.302 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.574 | 172  | 4647     | 0.427 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 18.785 | 212  | 8415     | 0.404 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.412 | 244  | 6272     | 0.420 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
|                               |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.003  | 88   | 684      | 0.465 | ng    | 99       |
| 3) n-Nitrosodimethylamine     | 3.299  | 42   | 495      | 0.404 | ng    | # 88     |
| 6) bis(2-Chloroethyl)ether    | 6.759  | 93   | 1676     | 0.430 | ng    | 99       |
| 9) Naphthalene                | 10.105 | 128  | 4364     | 0.424 | ng    | 99       |
| 10) Hexachlorobutadiene       | 10.404 | 225  | 1005     | 0.423 | ng    | # 100    |
| 12) 2-Methylnaphthalene       | 11.732 | 142  | 3157     | 0.428 | ng    | 98       |
| 16) Acenaphthylene            | 13.679 | 152  | 5261     | 0.435 | ng    | 100      |
| 17) Acenaphthene              | 14.031 | 154  | 3421     | 0.426 | ng    | 99       |
| 18) Fluorene                  | 15.026 | 166  | 4825     | 0.420 | ng    | 99       |
| 20) 4,6-Dinitro-2-methylph... | 15.132 | 198  | 263      | 0.364 | ng    | # 86     |
| 21) 4-Bromophenyl-phenylether | 15.941 | 248  | 1742     | 0.405 | ng    | 99       |
| 22) Hexachlorobenzene         | 16.040 | 284  | 2151     | 0.426 | ng    | 99       |
| 23) Atrazine                  | 16.227 | 200  | 1227     | 0.401 | ng    | 99       |
| 24) Pentachlorophenol         | 16.400 | 266  | 662      | 0.301 | ng    | # 83     |
| 25) Phenanthrene              | 16.773 | 178  | 8509     | 0.421 | ng    | 100      |
| 26) Anthracene                | 16.860 | 178  | 7849     | 0.430 | ng    | 100      |
| 28) Fluoranthene              | 18.812 | 202  | 10941    | 0.402 | ng    | 100      |
| 30) Pyrene                    | 19.179 | 202  | 11476    | 0.410 | ng    | 100      |
| 32) Benzo(a)anthracene        | 20.956 | 228  | 10934    | 0.413 | ng    | 100      |
| 33) Chrysene                  | 21.009 | 228  | 11926    | 0.436 | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 20.929 | 149  | 4016     | 0.384 | ng    | 100      |
| 36) Indeno(1,2,3-cd)pyrene    | 25.105 | 276  | 14433    | 0.443 | ng    | 99       |
| 37) Benzo(b)fluoranthene      | 22.453 | 252  | 12988    | 0.426 | ng    | 99       |
| 38) Benzo(k)fluoranthene      | 22.494 | 252  | 12669    | 0.422 | ng    | 99       |
| 39) Benzo(a)pyrene            | 22.974 | 252  | 11094    | 0.442 | ng    | 99       |
| 40) Dibenzo(a,h)anthracene    | 25.123 | 278  | 11141    | 0.433 | ng    | 100      |
| 41) Benzo(g,h,i)perylene      | 25.722 | 276  | 10870    | 0.404 | ng    | 99       |
| -----                         |        |      |          |       |       |          |

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

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112724\  
Data File : BN035357.D  
Acq On : 27 Nov 2024 20:21  
Operator : RC/JU  
Sample : SSTDICV0.4  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

## Instrument :

BNA\_N

## ClientSampleId :

ICVBN112724

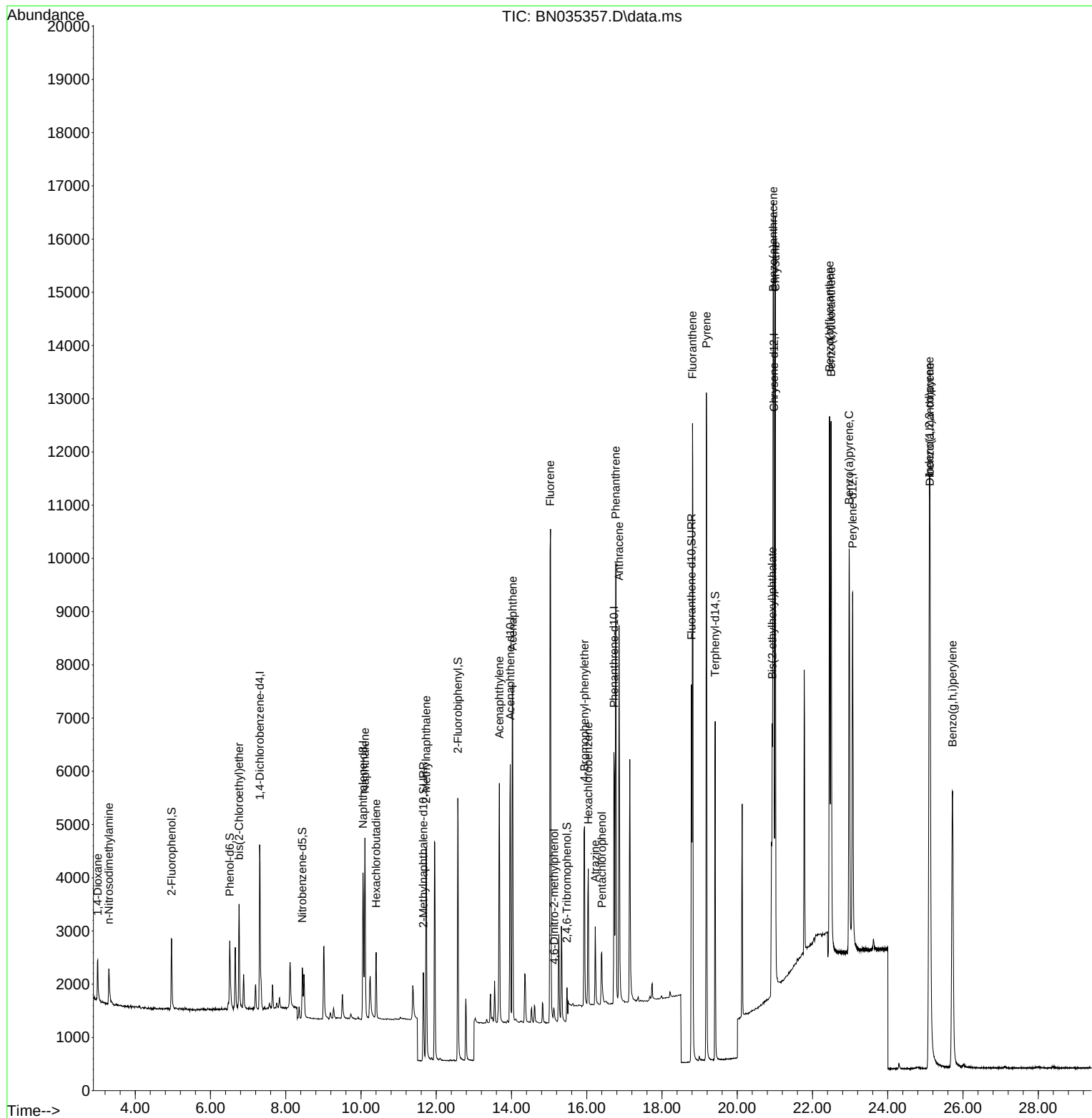
## Manual Integrations

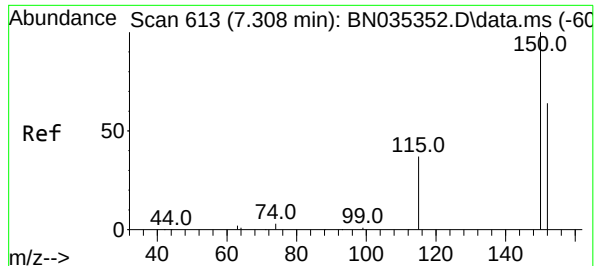
## APPROVED

Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024

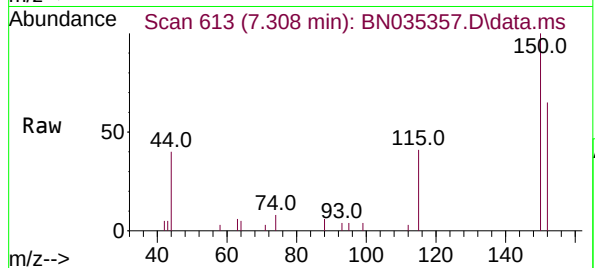
Quant Time: Nov 27 23:06:03 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Nov 27 23:03:24 2024  
Response via : Initial Calibration





#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.308 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

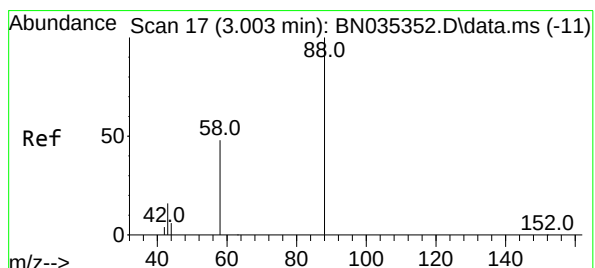
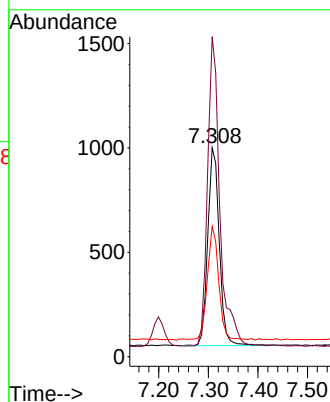
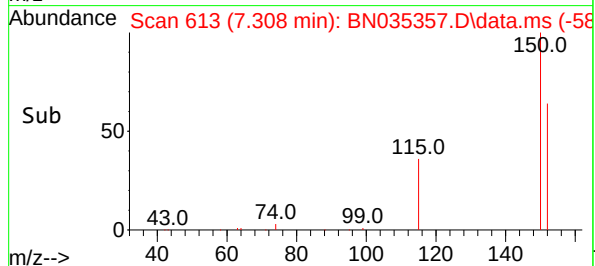
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112724



Tgt Ion: 152 Resp: 1540  
Ion Ratio Lower Upper  
152 100  
150 153.3 124.0 186.0  
115 62.4 49.6 74.4

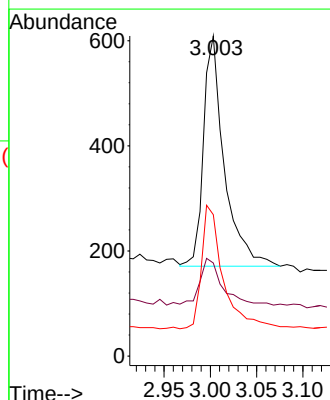
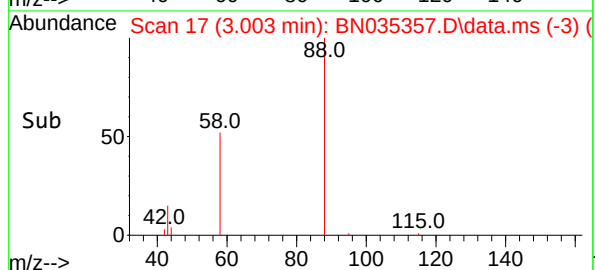
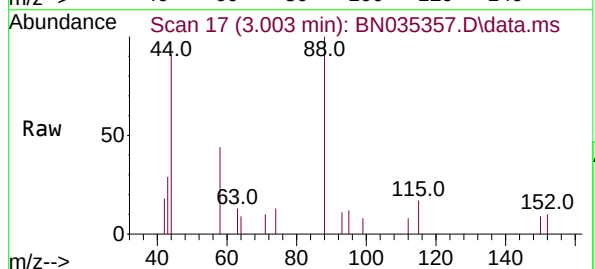
Manual Integrations  
APPROVED

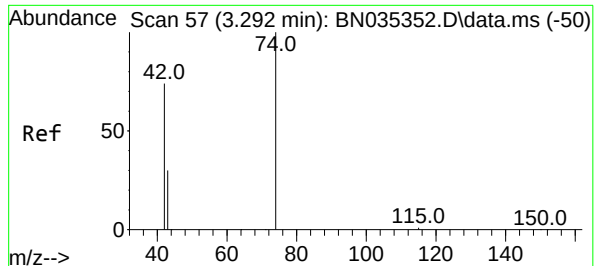
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#2  
1,4-Dioxane  
Concen: 0.465 ng  
RT: 3.003 min Scan# 17  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

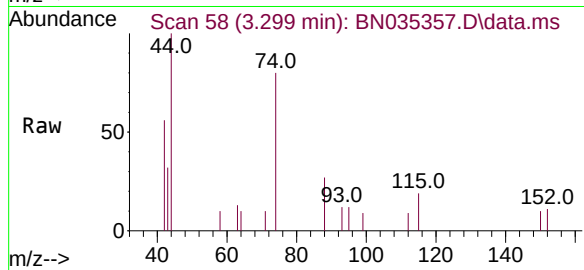
Tgt Ion: 88 Resp: 684  
Ion Ratio Lower Upper  
88 100  
43 21.8 17.2 25.8  
58 56.0 44.5 66.7





#3  
n-Nitrosodimethylamine  
Concen: 0.404 ng  
RT: 3.299 min Scan# 50  
Delta R.T. 0.007 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

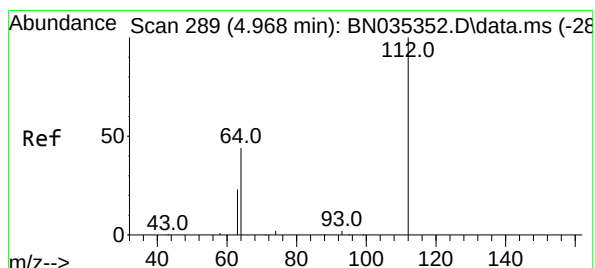
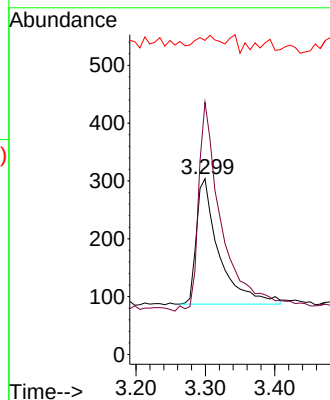
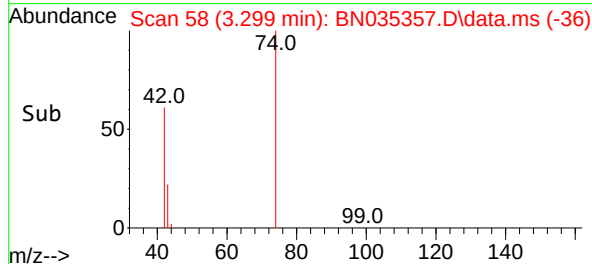
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112724



Tgt Ion: 42 Resp: 495  
Ion Ratio Lower Upper  
42 100  
74 172.1 124.9 187.3  
44 6.3 2.2 3.4

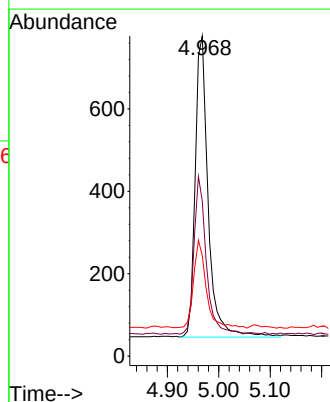
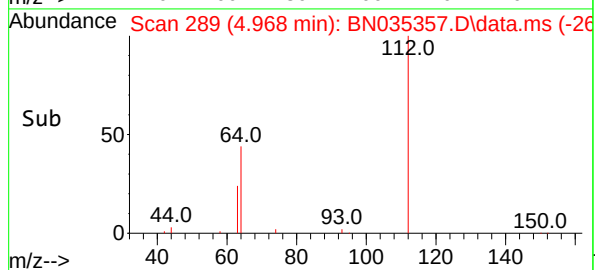
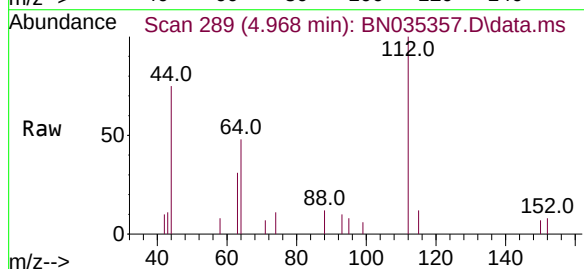
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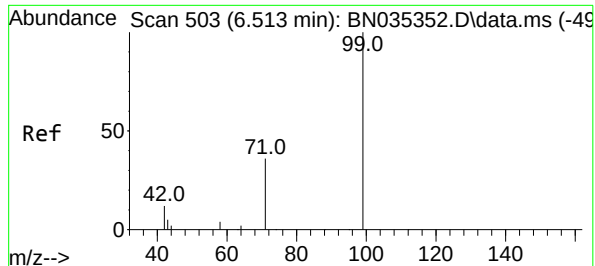
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#4  
2-Fluorophenol  
Concen: 0.332 ng  
RT: 4.968 min Scan# 289  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

Tgt Ion:112 Resp: 1280  
Ion Ratio Lower Upper  
112 100  
64 49.0 39.8 59.8  
63 28.4 21.0 31.6





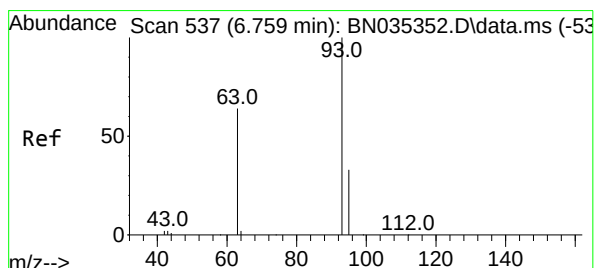
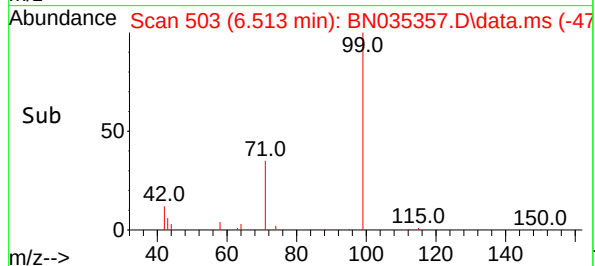
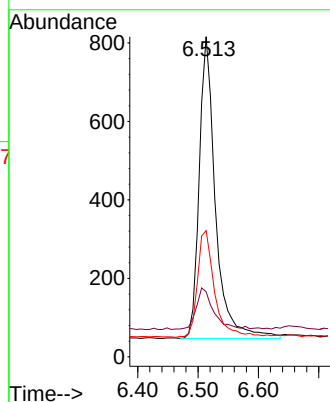
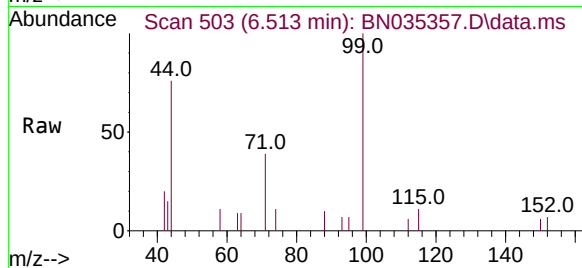
#5  
Phenol-d6  
Concen: 0.310 ng  
RT: 6.513 min Scan# 503  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112724

Tgt Ion: 99 Resp: 143  
Ion Ratio Lower Upper  
99 100  
42 13.9 11.4 17.2  
71 37.2 29.3 43.9

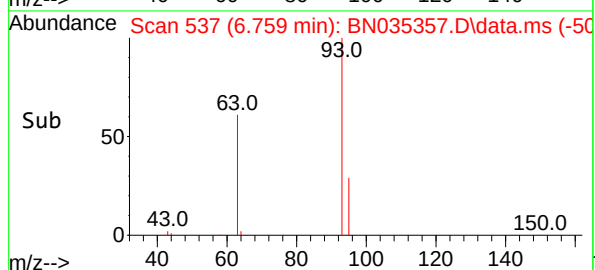
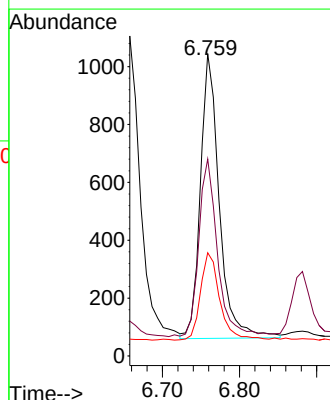
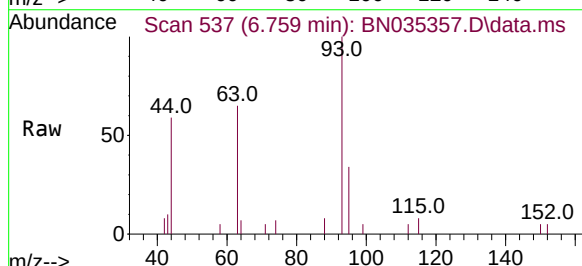
Manual Integrations  
APPROVED

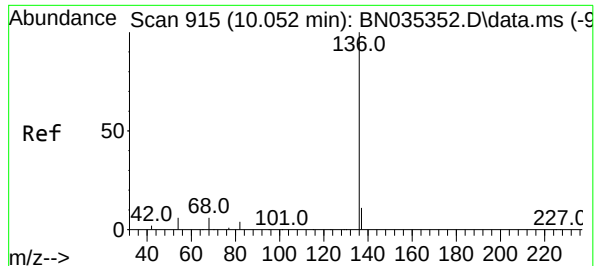
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#6  
bis(2-Chloroethyl)ether  
Concen: 0.430 ng  
RT: 6.759 min Scan# 537  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

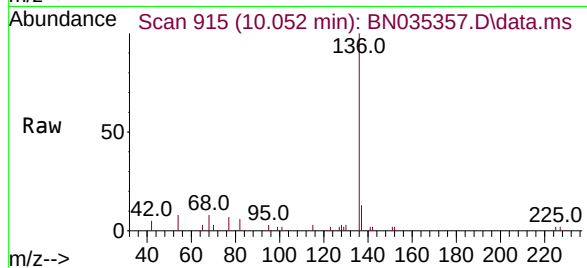
Tgt Ion: 93 Resp: 1676  
Ion Ratio Lower Upper  
93 100  
63 62.1 50.4 75.6  
95 31.4 25.7 38.5





#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.052 min Scan# 915  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

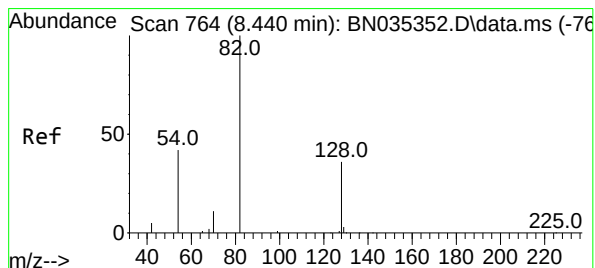
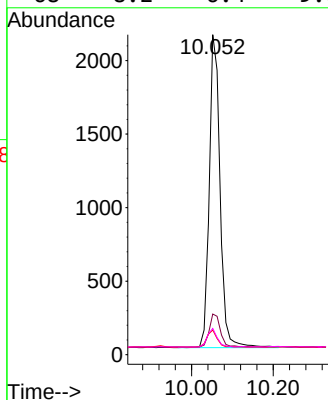
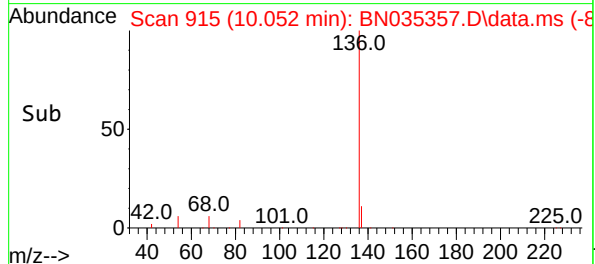
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112724



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 136     | 100   |       |       |
| 137     | 12.7  | 10.2  | 15.2  |
| 54      | 7.7   | 6.1   | 9.1   |
| 68      | 8.2   | 6.4   | 9.6   |

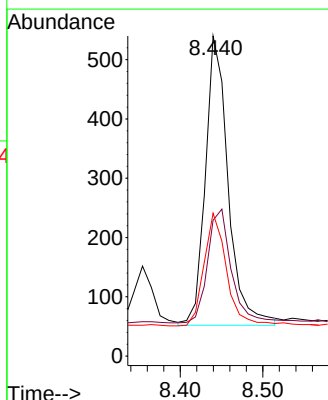
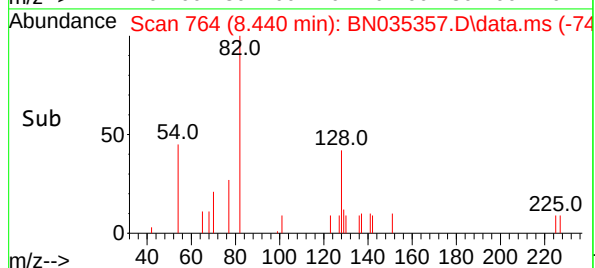
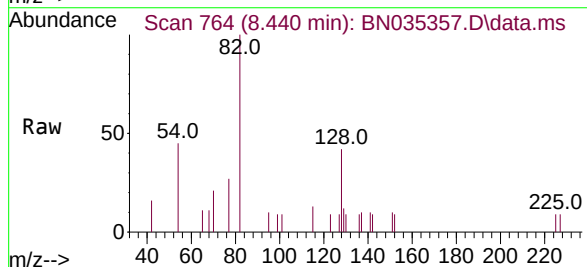
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Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024

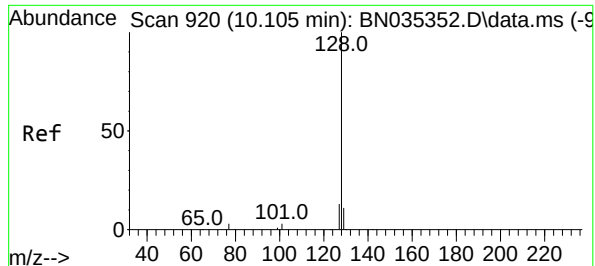


#8  
Nitrobenzene-d5  
Concen: 0.393 ng m  
RT: 8.440 min Scan# 764  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 42.4  | 33.4  | 50.0  |
| 54      | 44.6  | 36.7  | 55.1  |







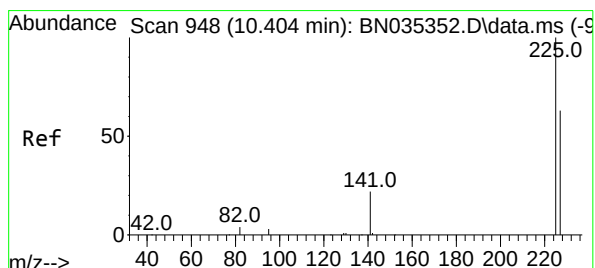
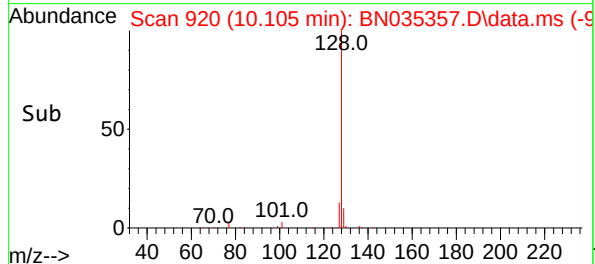
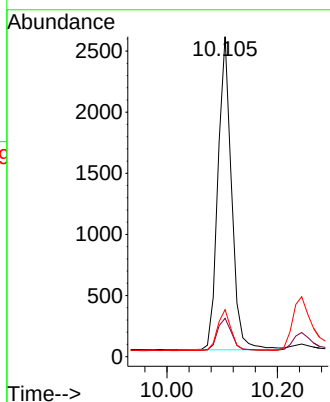
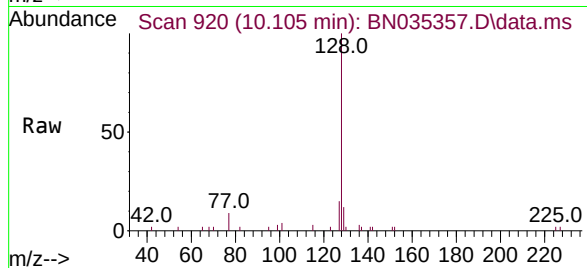
#9  
Naphthalene  
Concen: 0.424 ng  
RT: 10.105 min Scan# 912  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112724

Tgt Ion:128 Resp: 4364  
Ion Ratio Lower Upper  
128 100  
129 12.0 9.8 14.6  
127 14.7 11.4 17.2

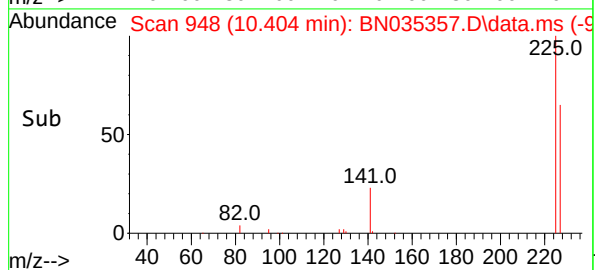
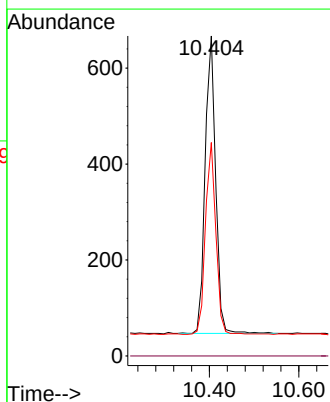
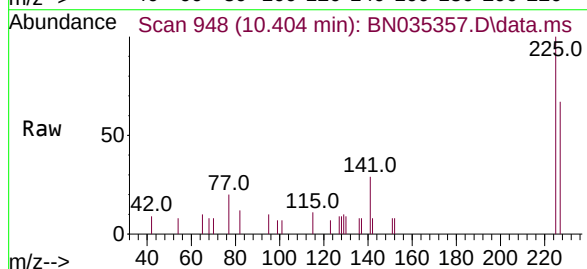
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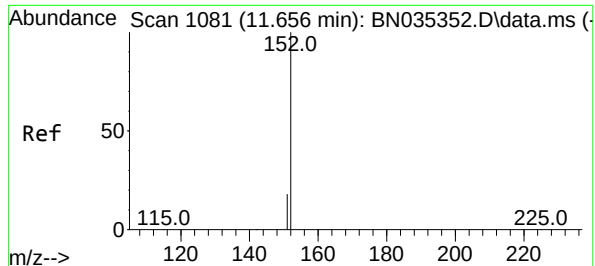
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#10  
Hexachlorobutadiene  
Concen: 0.423 ng  
RT: 10.404 min Scan# 948  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

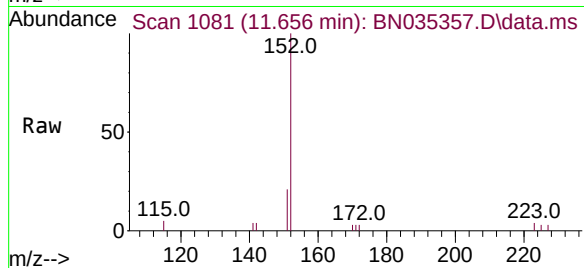
Tgt Ion:225 Resp: 1005  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 64.3 51.3 76.9





#11  
2-Methylnaphthalene-d10  
Concen: 0.420 ng  
RT: 11.656 min Scan# 1081  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

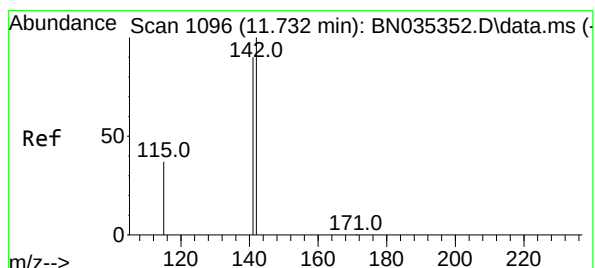
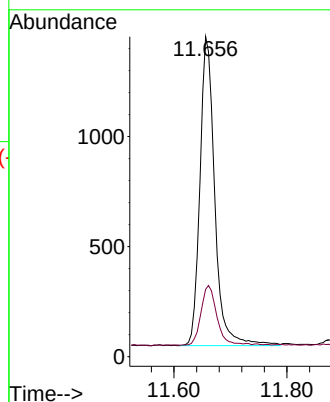
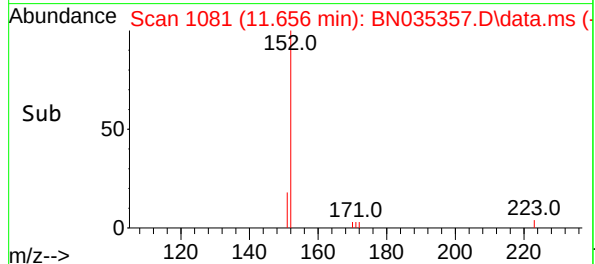
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112724



Tgt Ion:152 Resp: 256  
Ion Ratio Lower Upper  
152 100  
151 20.5 16.6 25.0

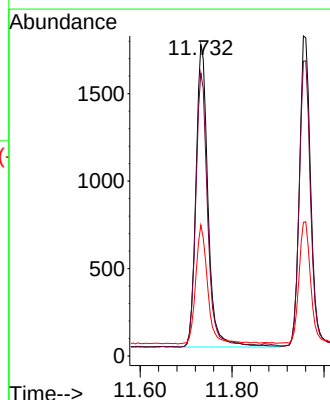
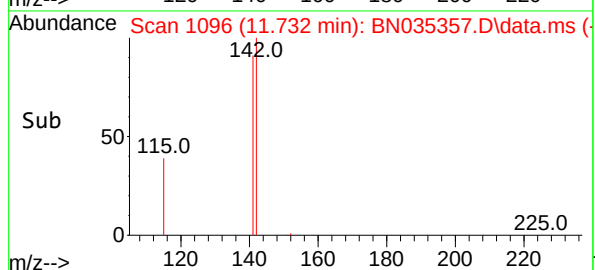
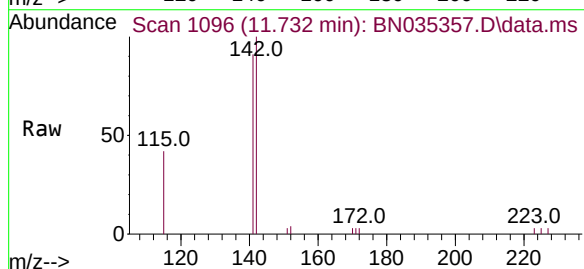
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APPROVED

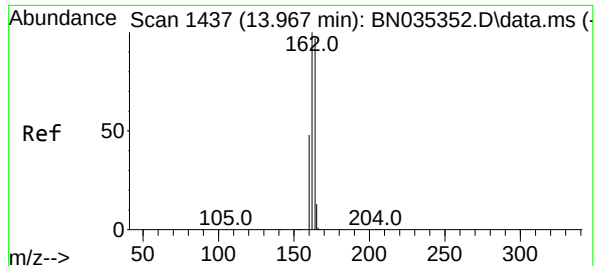
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#12  
2-Methylnaphthalene  
Concen: 0.428 ng  
RT: 11.732 min Scan# 1096  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

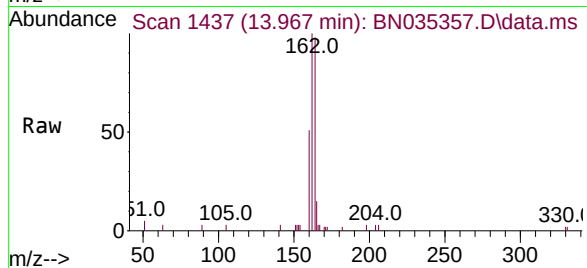
Tgt Ion:142 Resp: 3157  
Ion Ratio Lower Upper  
142 100  
141 90.9 72.2 108.4  
115 42.0 31.4 47.0





#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.967 min Scan# 1437  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

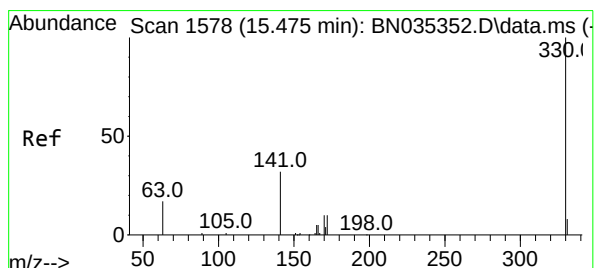
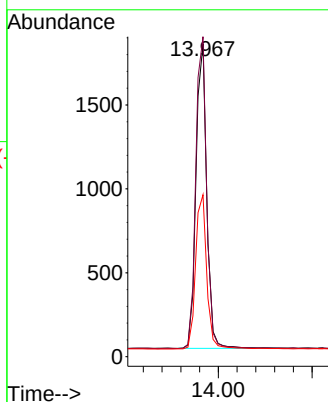
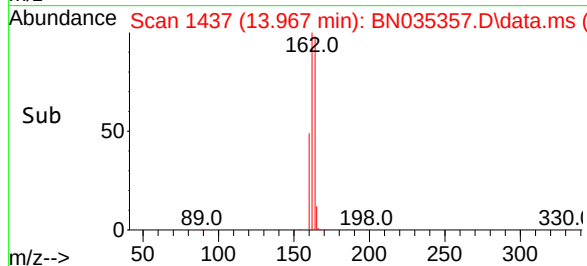
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112724



Tgt Ion:164 Resp: 2879  
Ion Ratio Lower Upper  
164 100  
162 102.3 82.2 123.2  
160 51.8 40.1 60.1

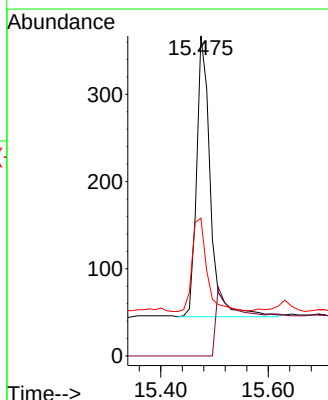
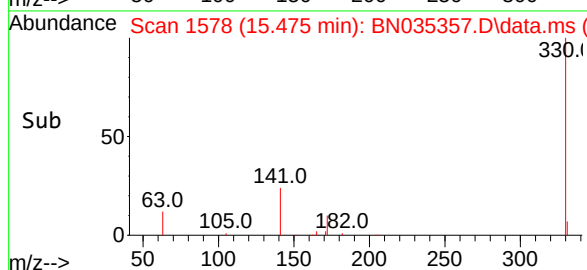
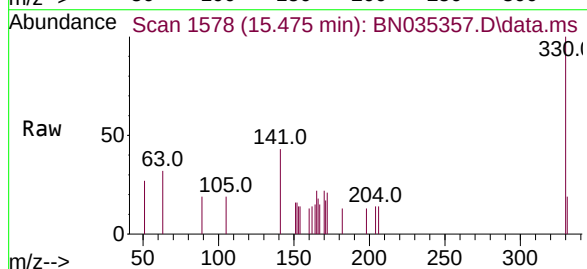
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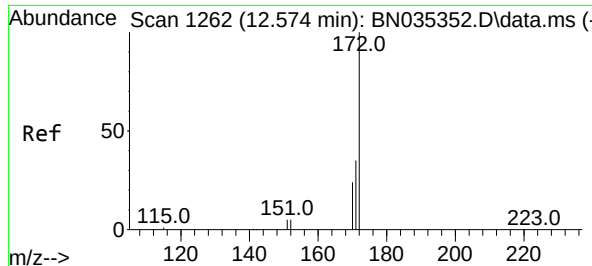
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#14  
2,4,6-Tribromophenol  
Concen: 0.302 ng  
RT: 15.475 min Scan# 1578  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

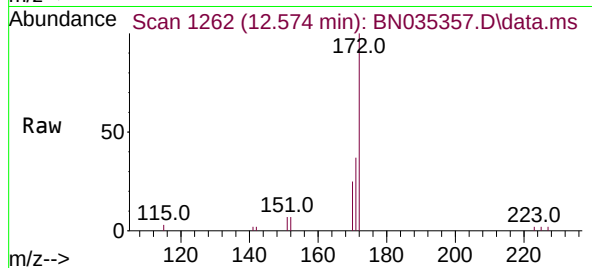
Tgt Ion:330 Resp: 617  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 34.7 26.6 40.0





#15  
2-Fluorobiphenyl  
Concen: 0.427 ng  
RT: 12.574 min Scan# 1262  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

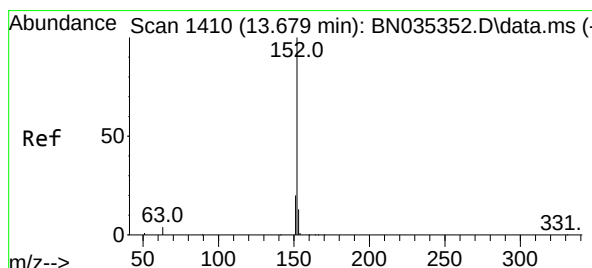
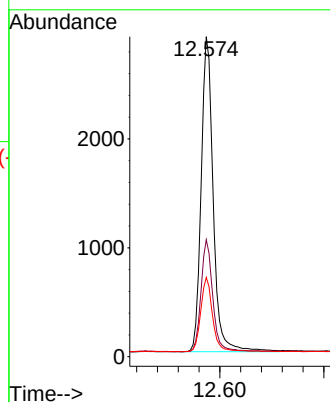
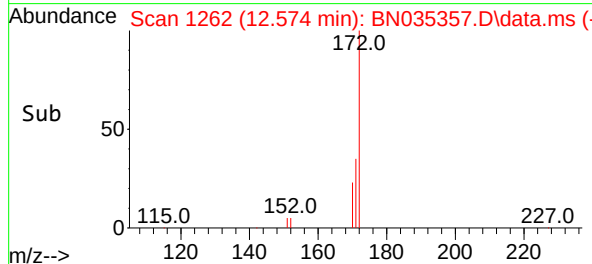
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112724



Tgt Ion:172 Resp: 464  
Ion Ratio Lower Upper  
172 100  
171 36.5 29.0 43.4  
170 24.7 19.8 29.8

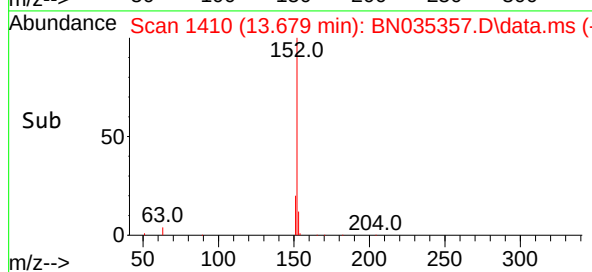
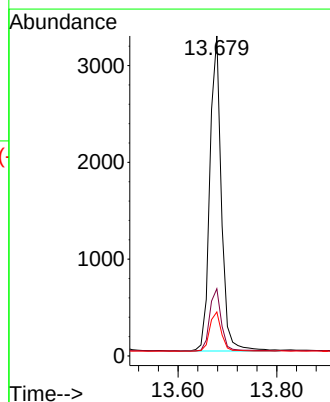
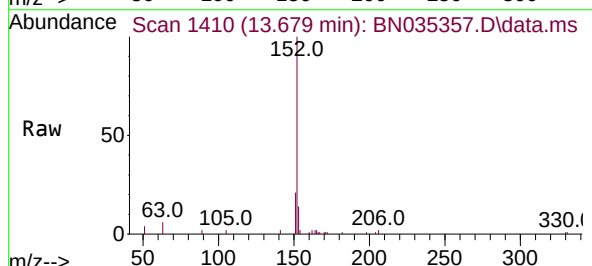
Manual Integrations  
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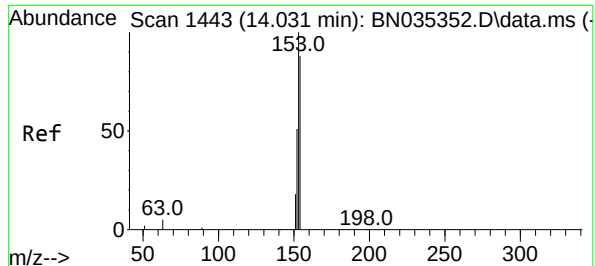
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#16  
Acenaphthylene  
Concen: 0.435 ng  
RT: 13.679 min Scan# 1410  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

Tgt Ion:152 Resp: 5261  
Ion Ratio Lower Upper  
152 100  
151 20.1 16.2 24.2  
153 12.7 10.4 15.6





#17

Acenaphthene

Concen: 0.426 ng

RT: 14.031 min Scan# 1443

Delta R.T. -0.000 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

Instrument :

BNA\_N

ClientSampleId :

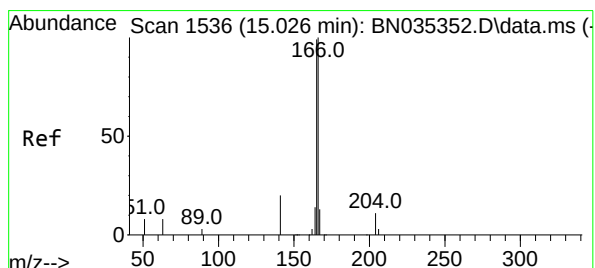
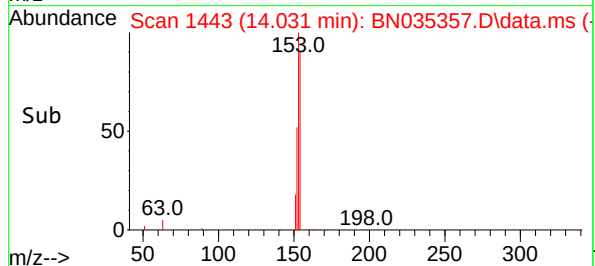
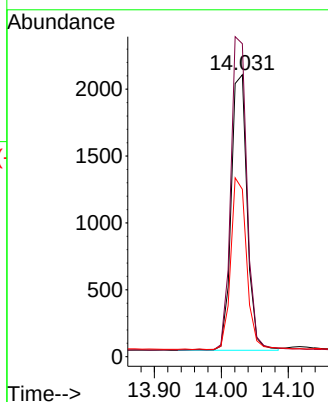
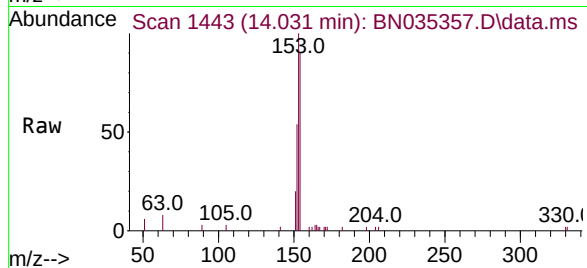
ICVBN112724

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 154   | Resp: | 342   |
| Ion      | Ratio | Lower | Upper |
| 154      | 100   |       |       |
| 153      | 115.4 | 92.6  | 139.0 |
| 152      | 61.9  | 49.0  | 73.6  |

Manual Integrations

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Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#18

Fluorene

Concen: 0.420 ng

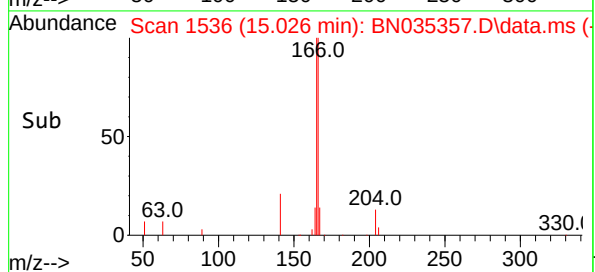
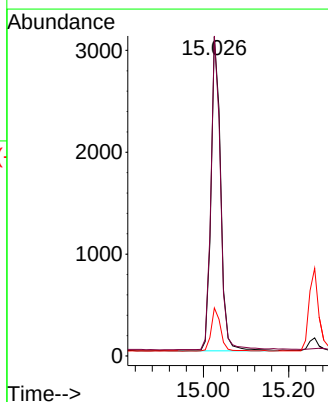
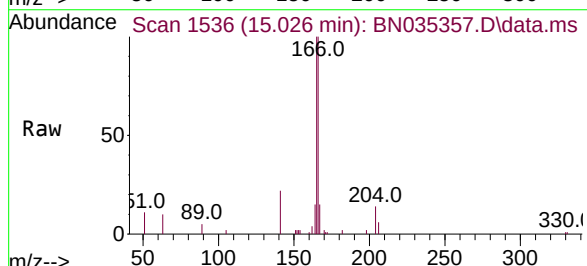
RT: 15.026 min Scan# 1536

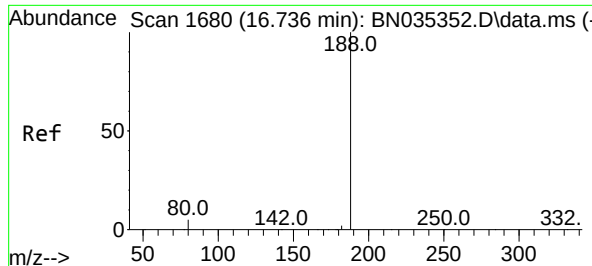
Delta R.T. -0.000 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

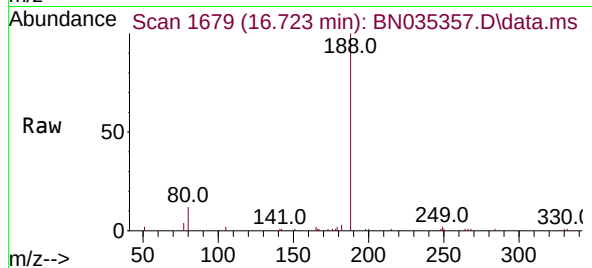
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 166   | Resp: | 4825  |
| Ion      | Ratio | Lower | Upper |
| 166      | 100   |       |       |
| 165      | 98.4  | 79.7  | 119.5 |
| 167      | 13.6  | 10.8  | 16.2  |





#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 16.723 min Scan# 1679  
Delta R.T. -0.012 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

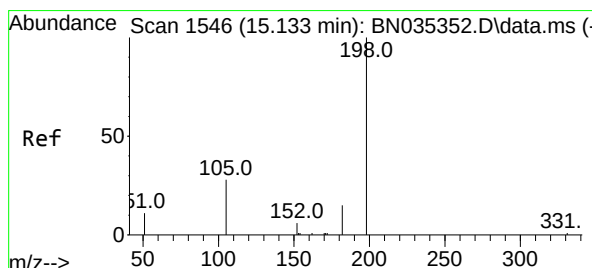
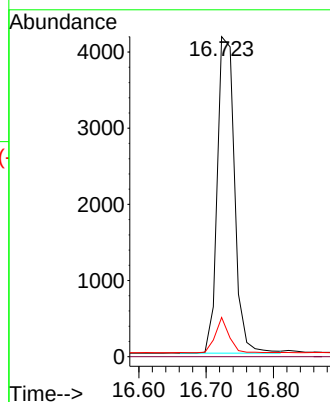
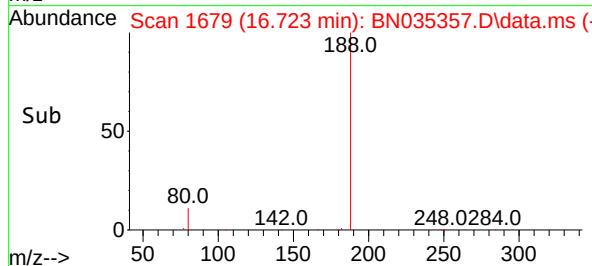
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112724



Tgt Ion:188 Resp: 7350  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 12.2 4.6 6.8

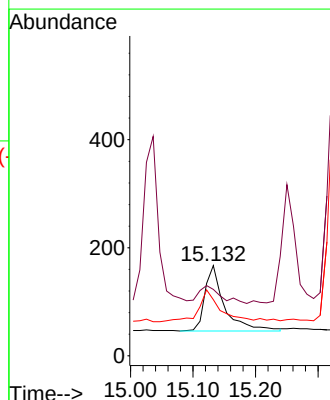
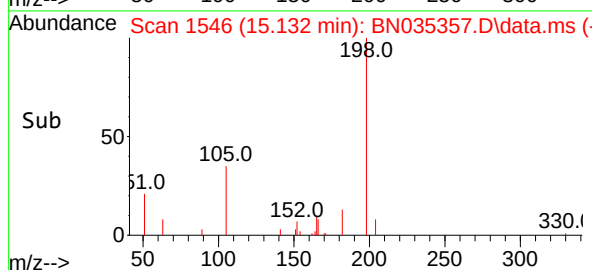
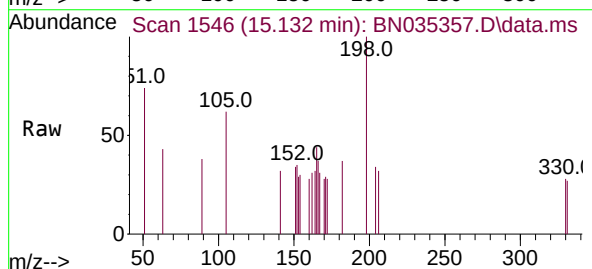
Manual Integrations  
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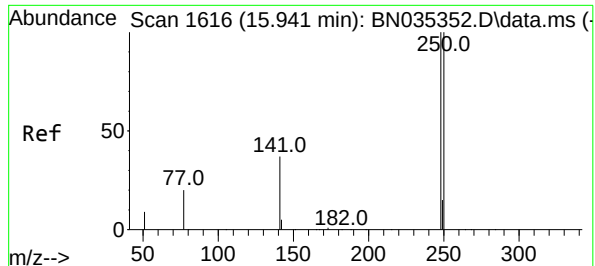
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#20  
4,6-Dinitro-2-methylphenol  
Concen: 0.364 ng  
RT: 15.132 min Scan# 1546  
Delta R.T. -0.001 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

Tgt Ion:198 Resp: 263  
Ion Ratio Lower Upper  
198 100  
51 73.7 46.5 69.7#  
105 62.3 45.3 67.9





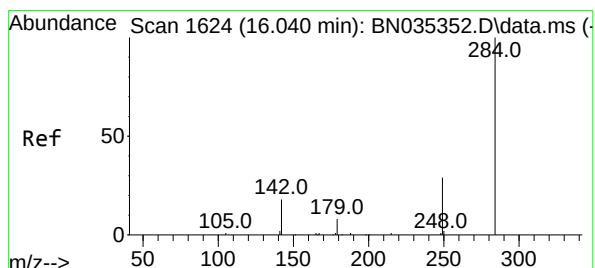
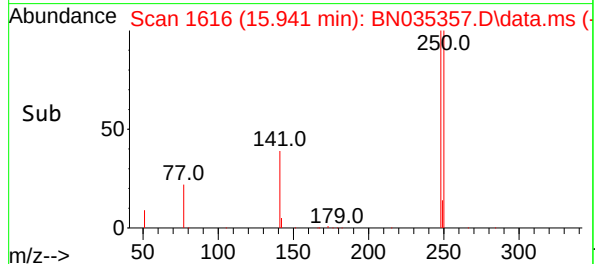
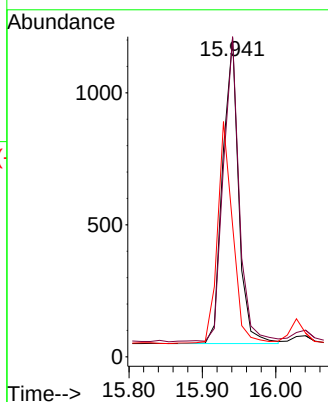
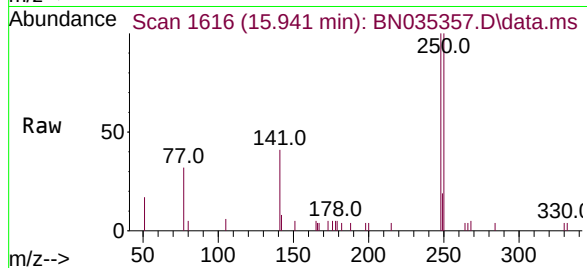
#21  
4-Bromophenyl-phenylether  
Concen: 0.405 ng  
RT: 15.941 min Scan# 1616  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112724

Tgt Ion:248 Resp: 174  
Ion Ratio Lower Upper  
248 100  
250 100.3 80.6 120.8  
141 41.2 31.5 47.3

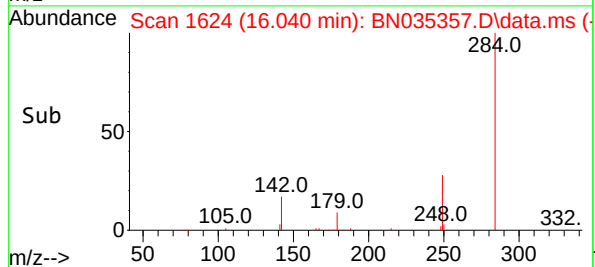
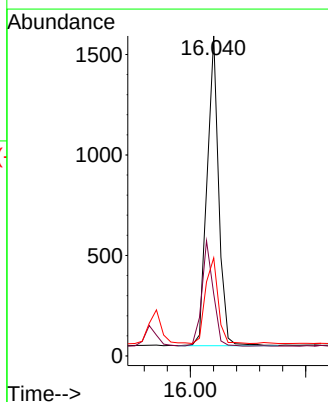
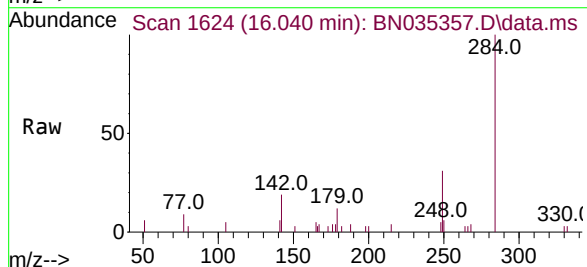
Manual Integrations  
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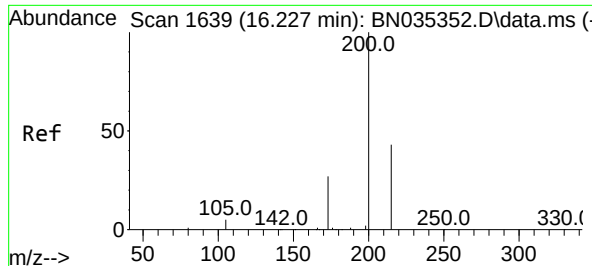
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#22  
Hexachlorobenzene  
Concen: 0.426 ng  
RT: 16.040 min Scan# 1624  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

Tgt Ion:284 Resp: 2151  
Ion Ratio Lower Upper  
284 100  
142 33.5 26.7 40.1  
249 30.0 24.6 36.8





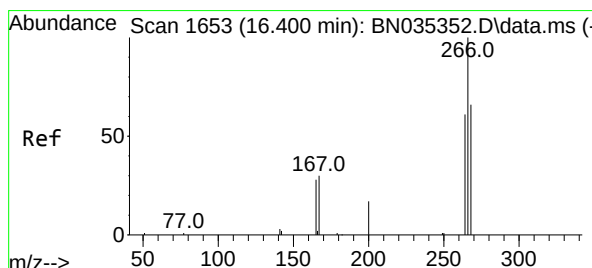
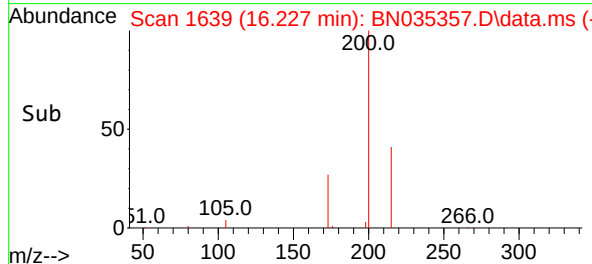
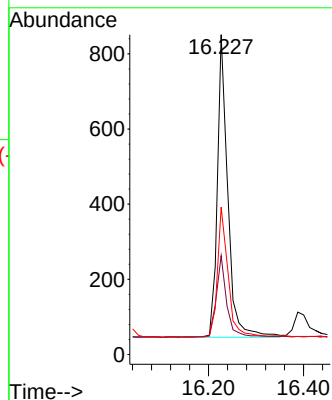
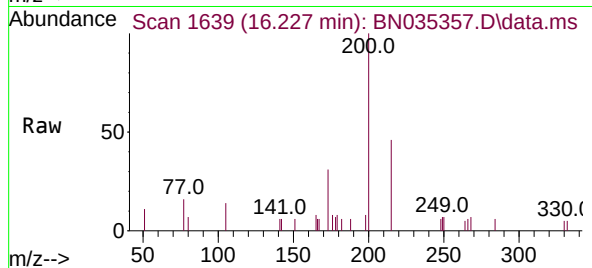
#23  
Atrazine  
Concen: 0.401 ng  
RT: 16.227 min Scan# 1639  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112724

Tgt Ion:200 Resp: 122  
Ion Ratio Lower Upper  
200 100  
173 30.9 24.1 36.1  
215 46.1 36.9 55.3

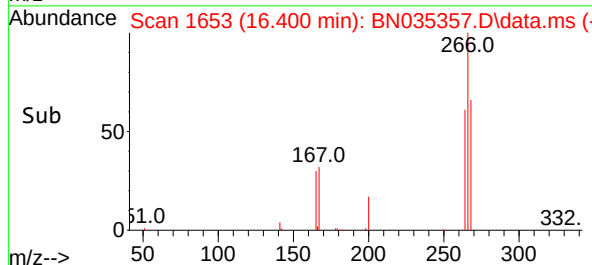
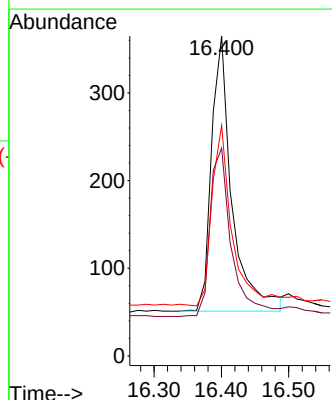
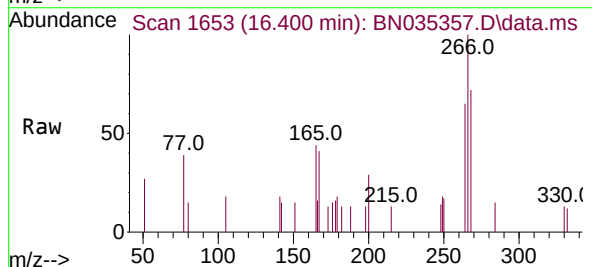
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Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024

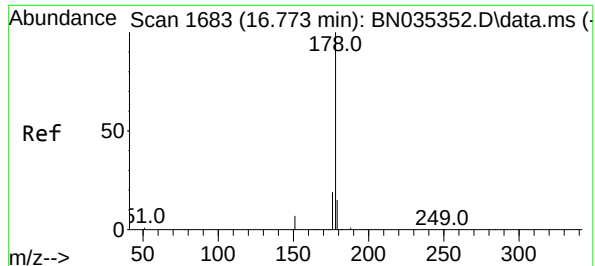


#24  
Pentachlorophenol  
Concen: 0.301 ng  
RT: 16.400 min Scan# 1653  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

Tgt Ion:266 Resp: 662  
Ion Ratio Lower Upper  
266 100  
264 65.0 42.3 63.5#  
268 66.8 43.3 64.9#

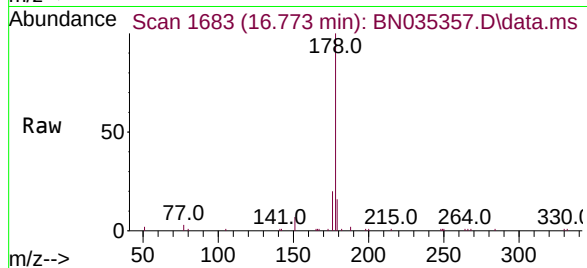






#25  
Phenanthrene  
Concen: 0.421 ng  
RT: 16.773 min Scan# 1683  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

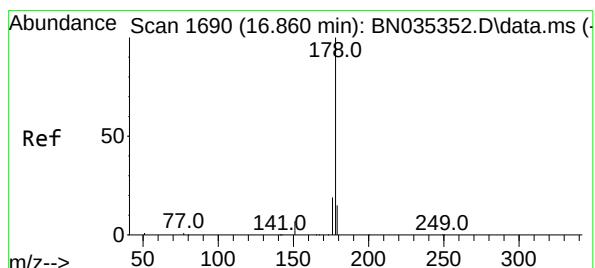
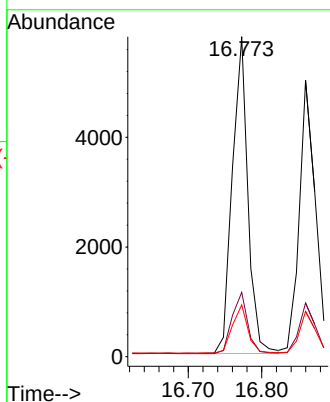
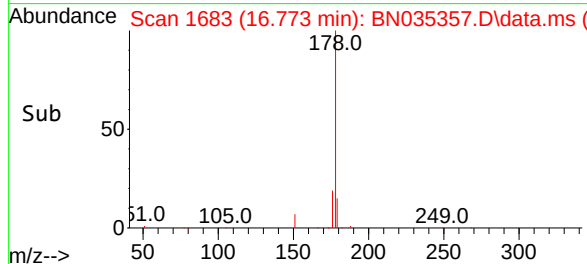
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112724



Tgt Ion:178 Resp: 8509  
Ion Ratio Lower Upper  
178 100  
176 19.6 15.4 23.2  
179 15.4 12.3 18.5

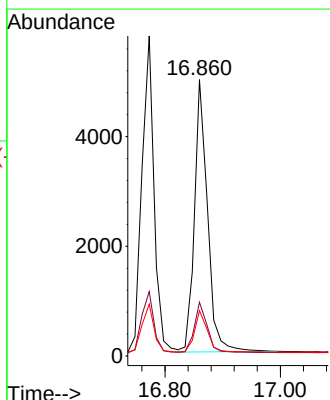
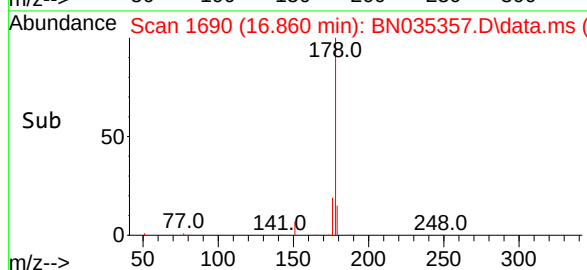
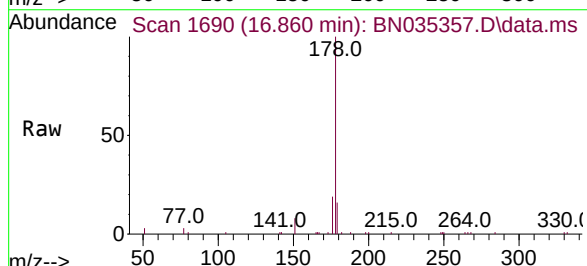
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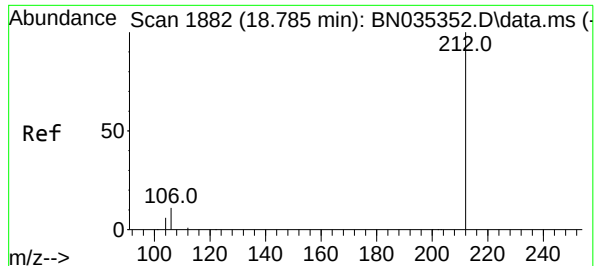
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#26  
Anthracene  
Concen: 0.430 ng  
RT: 16.860 min Scan# 1690  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

Tgt Ion:178 Resp: 7849  
Ion Ratio Lower Upper  
178 100  
176 18.8 15.0 22.6  
179 15.3 12.6 18.8





#27  
Fluoranthene-d10  
Concen: 0.404 ng  
RT: 18.785 min Scan# 1882  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

Instrument :

BNA\_N

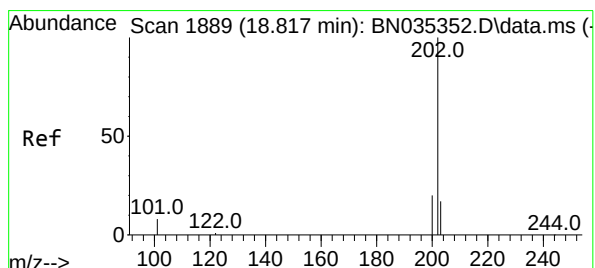
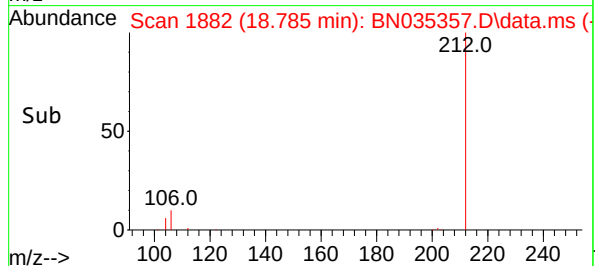
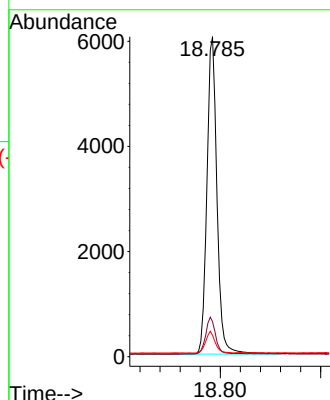
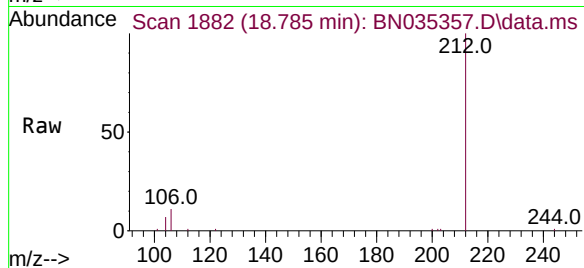
ClientSampleId :

ICVBN112724

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 212     | 100   |       |       |
| 106     | 11.3  | 9.2   | 13.8  |
| 104     | 6.4   | 5.3   | 7.9   |

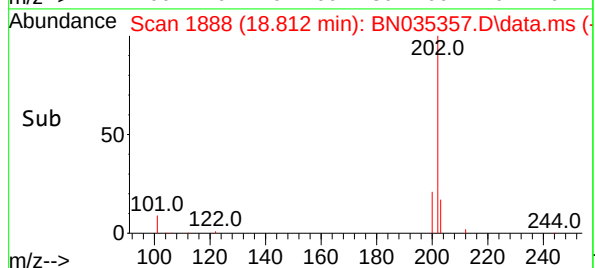
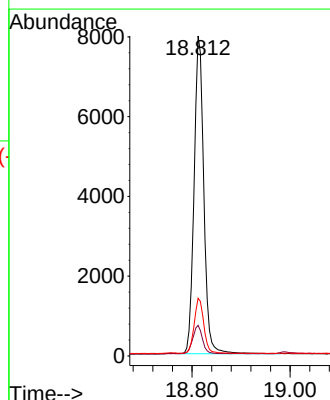
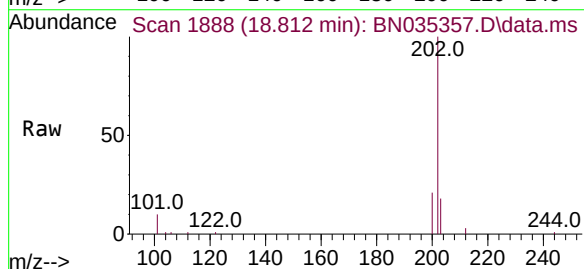
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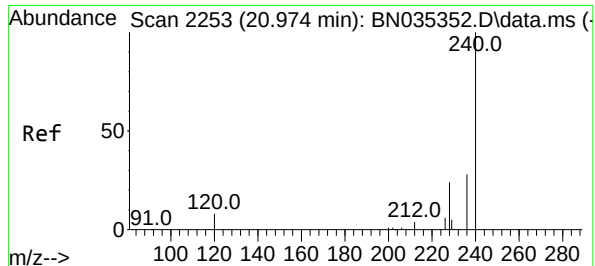
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#28  
Fluoranthene  
Concen: 0.402 ng  
RT: 18.812 min Scan# 1888  
Delta R.T. -0.005 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 9.2   | 7.4   | 11.0  |
| 203     | 17.1  | 13.7  | 20.5  |





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.974 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

Instrument :

BNA\_N

ClientSampleId :

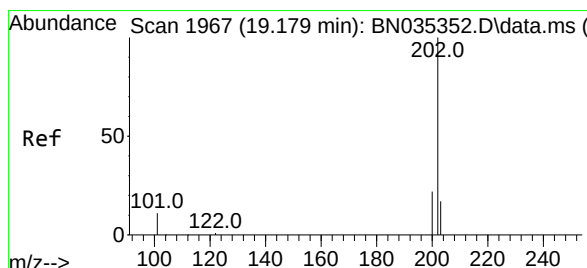
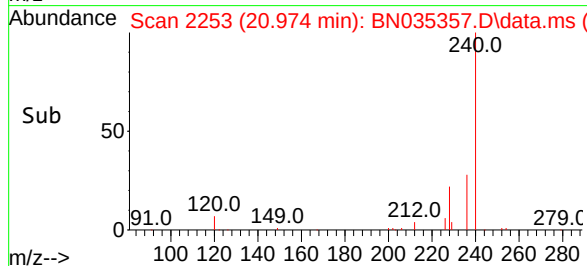
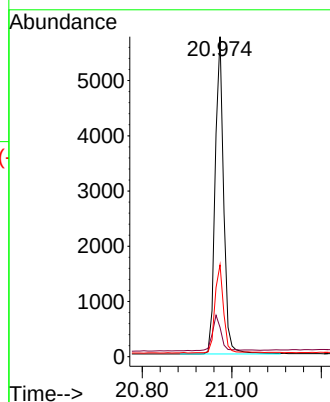
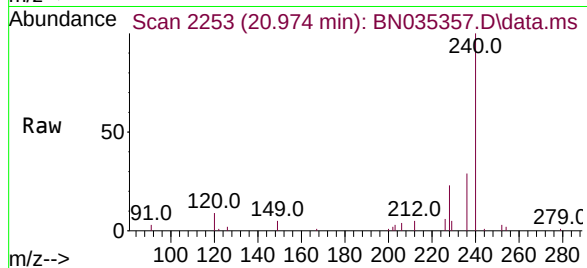
ICVBN112724

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:240 | Resp: | 7570        |
| Ion         | Ratio | Lower Upper |
| 240         | 100   |             |
| 120         | 9.1   | 7.9 11.9    |
| 236         | 28.7  | 22.9 34.3   |

Manual Integrations

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Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#30

Pyrene

Concen: 0.410 ng

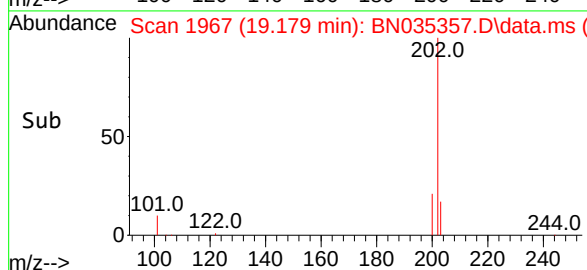
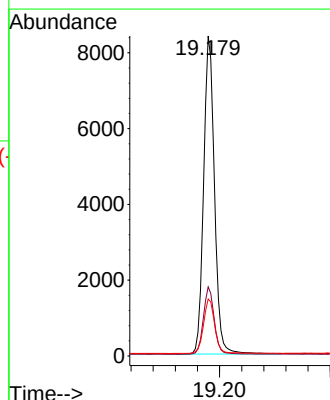
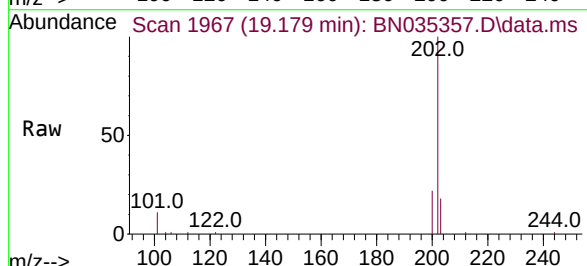
RT: 19.179 min Scan# 1967

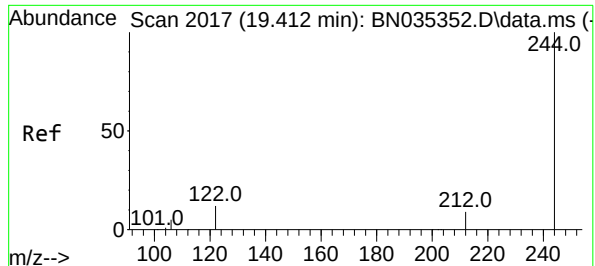
Delta R.T. -0.000 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:202 | Resp: | 11476       |
| Ion         | Ratio | Lower Upper |
| 202         | 100   |             |
| 200         | 20.9  | 17.0 25.4   |
| 203         | 17.8  | 14.3 21.5   |





#31  
Terphenyl-d14  
Concen: 0.420 ng  
RT: 19.412 min Scan# 2017  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

Instrument :

BNA\_N

ClientSampleId :

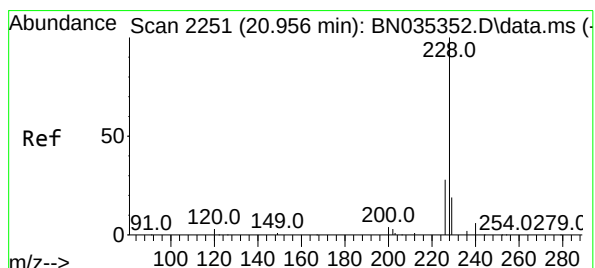
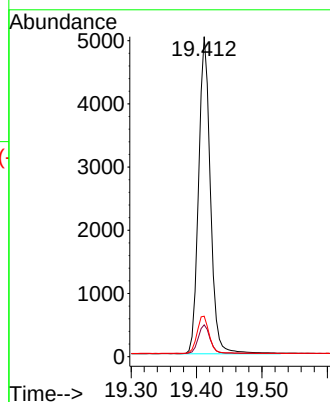
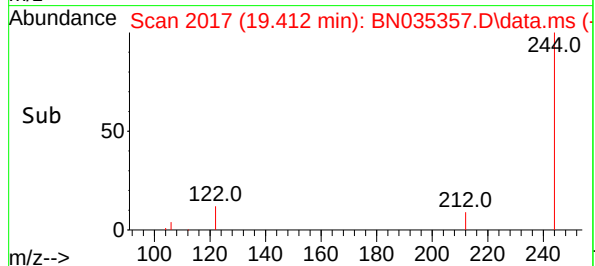
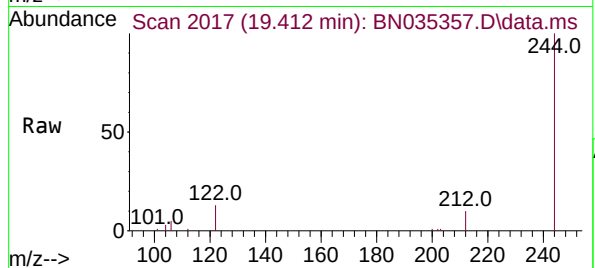
ICVBN112724

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 9.9   | 8.1   | 12.1  |
| 122     | 12.6  | 10.3  | 15.5  |

Manual Integrations

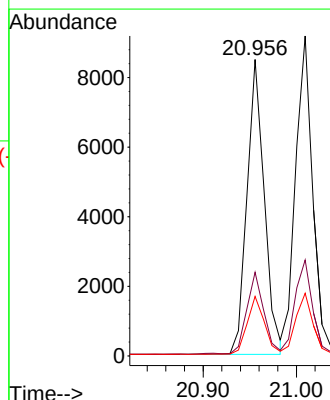
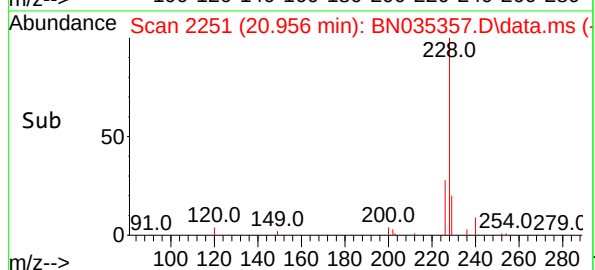
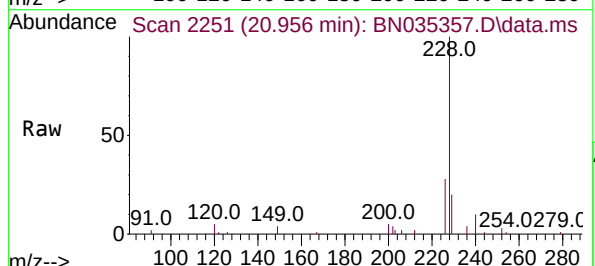
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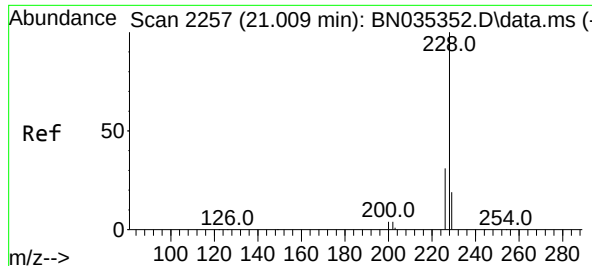
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#32  
Benzo(a)anthracene  
Concen: 0.413 ng  
RT: 20.956 min Scan# 2251  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 28.2  | 22.5  | 33.7  |
| 229     | 20.1  | 15.8  | 23.8  |





#33

Chrysene

Concen: 0.436 ng

RT: 21.009 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

Instrument :

BNA\_N

ClientSampleId :

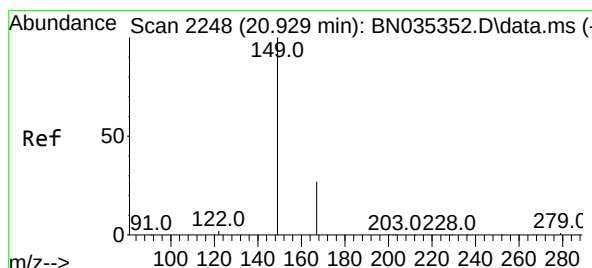
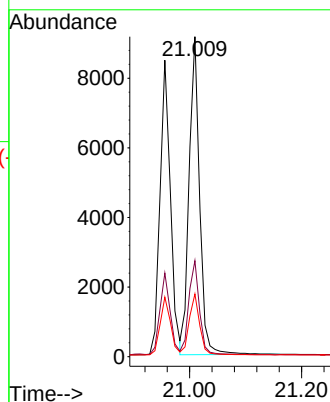
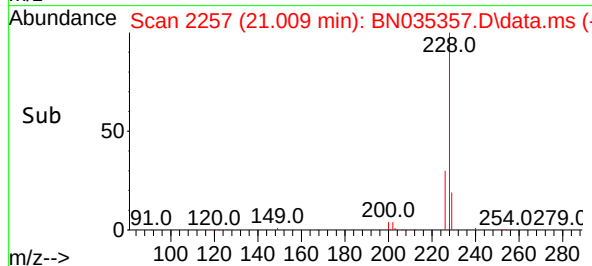
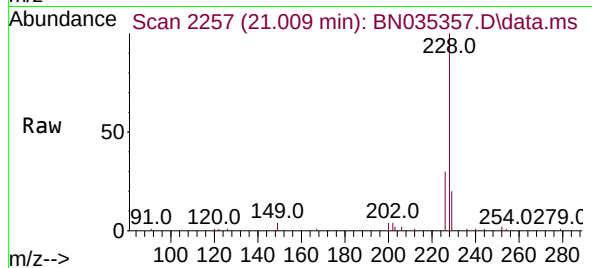
ICVBN112724

|             |             |
|-------------|-------------|
| Tgt Ion:228 | Resp: 11920 |
| Ion Ratio   | Lower Upper |
| 228 100     |             |
| 226 30.0    | 24.6 37.0   |
| 229 19.6    | 15.9 23.9   |

## Manual Integrations

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Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.384 ng

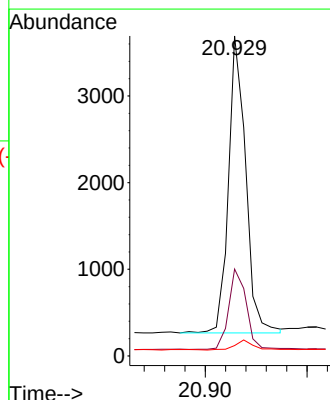
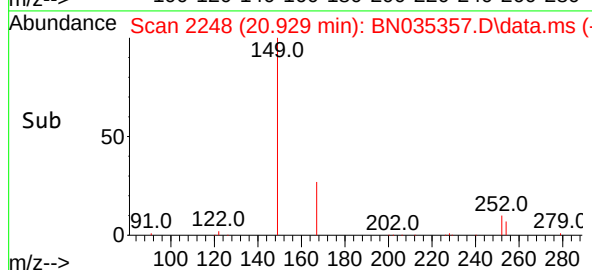
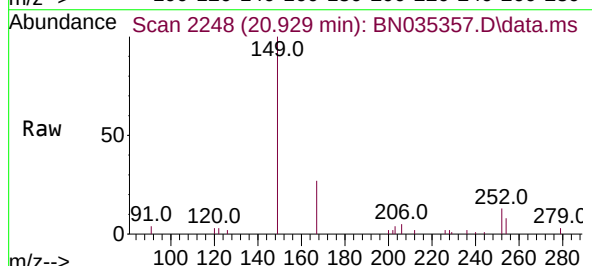
RT: 20.929 min Scan# 2248

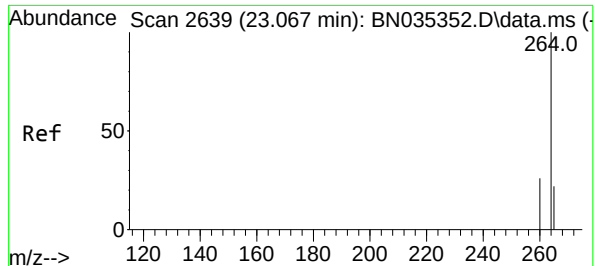
Delta R.T. -0.000 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

|             |             |
|-------------|-------------|
| Tgt Ion:149 | Resp: 4016  |
| Ion Ratio   | Lower Upper |
| 149 100     |             |
| 167 27.7    | 22.2 33.4   |
| 279 3.7     | 2.7 4.1     |





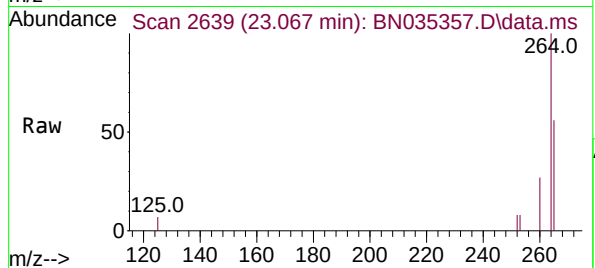
#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.067 min Scan# 2639  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

Instrument :

BNA\_N

ClientSampleId :

ICVBN112724



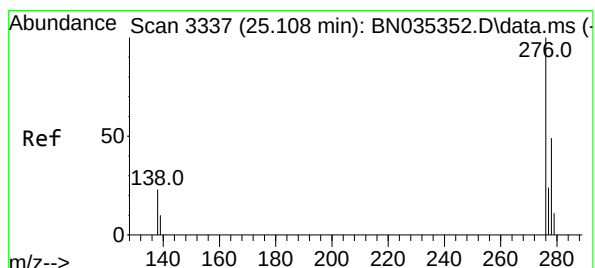
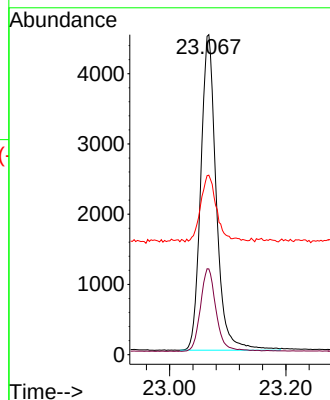
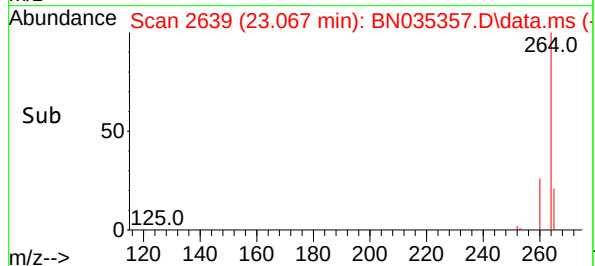
Tgt Ion:264 Resp: 8338  
Ion Ratio Lower Upper  
264 100  
260 26.8 21.4 32.2  
265 56.1 40.2 60.4

Manual Integrations

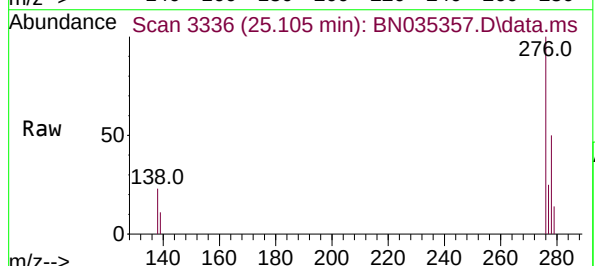
APPROVED

Reviewed By :Yogesh Patel 11/29/2024

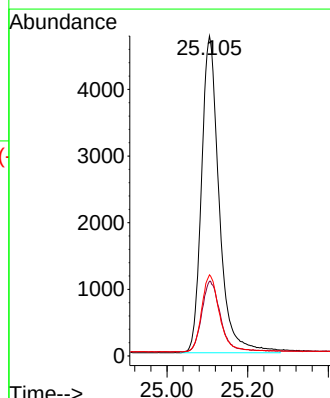
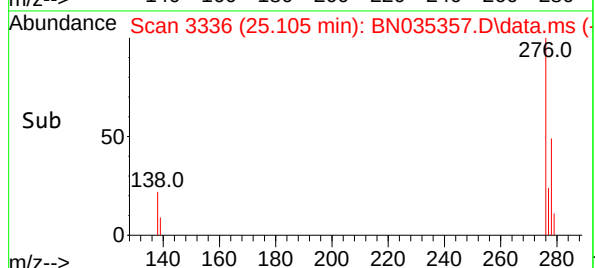
Supervised By :mohammad ahmed 12/03/2024

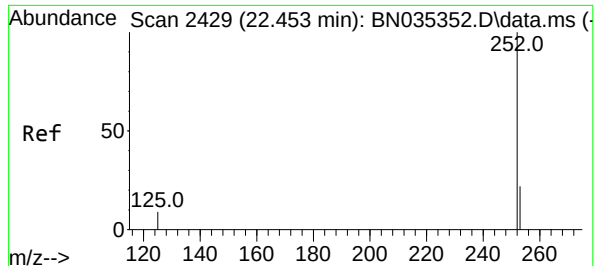


#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.443 ng  
RT: 25.105 min Scan# 3336  
Delta R.T. -0.003 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21



Tgt Ion:276 Resp: 14433  
Ion Ratio Lower Upper  
276 100  
138 23.5 19.4 29.0  
277 24.6 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.426 ng

RT: 22.453 min Scan# 2429

Delta R.T. -0.000 min

Lab File: BN035357.D

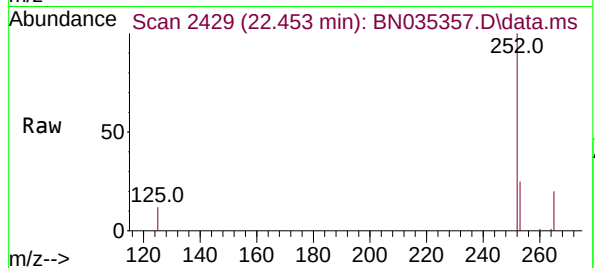
Acq: 27 Nov 2024 20:21

Instrument :

BNA\_N

ClientSampleId :

ICVBN112724



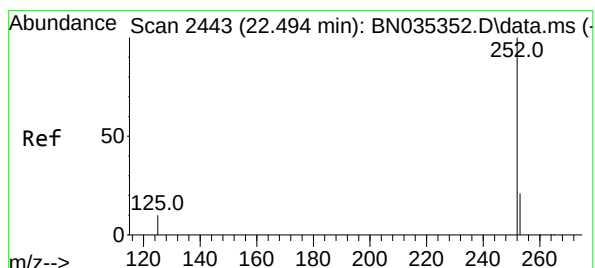
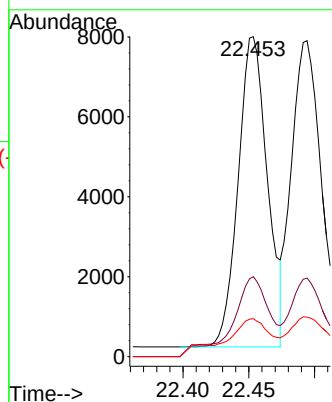
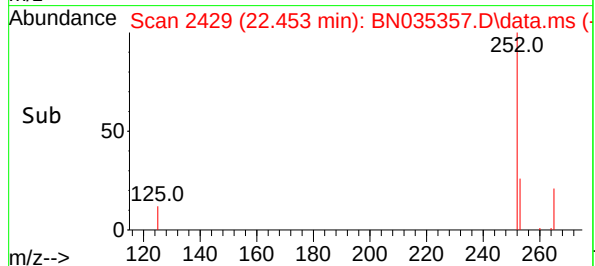
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 252   | Resp: | 1298 |
| Ion Ratio | Lower | Upper |      |
| 252       | 100   |       |      |
| 253       | 25.0  | 19.6  | 29.4 |
| 125       | 11.9  | 9.6   | 14.4 |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024



#38

Benzo(k)fluoranthene

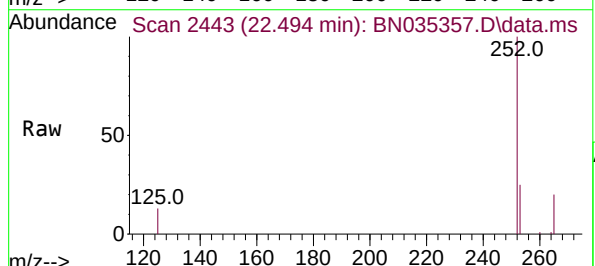
Concen: 0.422 ng

RT: 22.494 min Scan# 2443

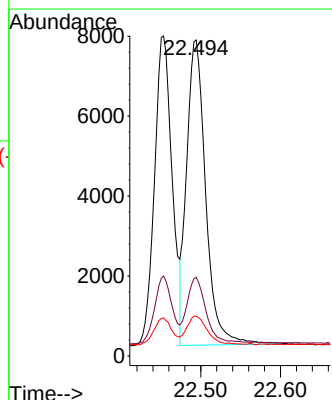
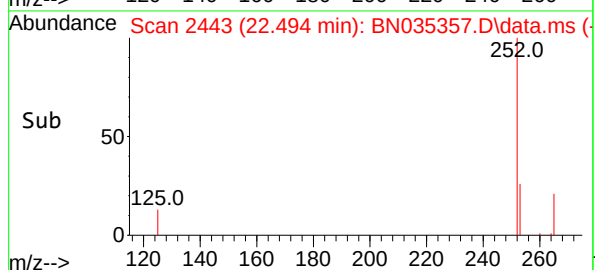
Delta R.T. -0.000 min

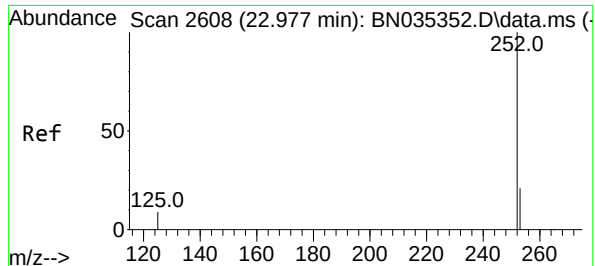
Lab File: BN035357.D

Acq: 27 Nov 2024 20:21



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 12669 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 24.8  | 19.5  | 29.3  |
| 125       | 12.5  | 10.2  | 15.4  |





#39

Benzo(a)pyrene

Concen: 0.442 ng

RT: 22.974 min Scan# 2607

Delta R.T. -0.003 min

Lab File: BN035357.D

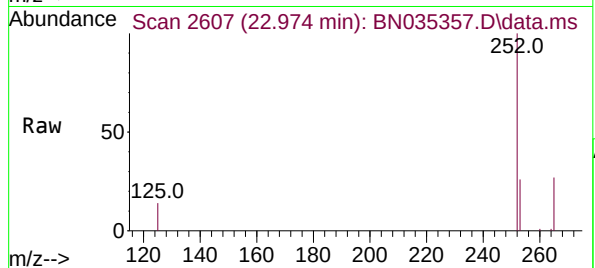
Acq: 27 Nov 2024 20:21

Instrument :

BNA\_N

ClientSampleId :

ICVBN112724



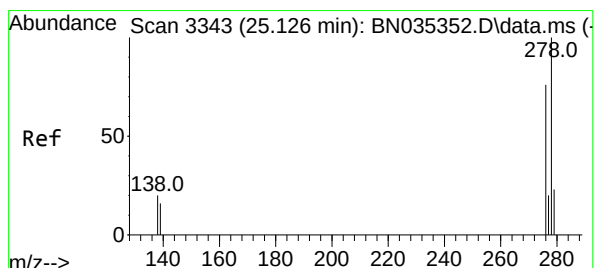
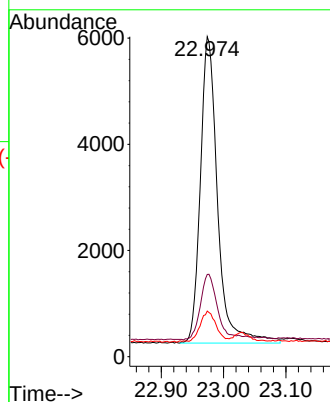
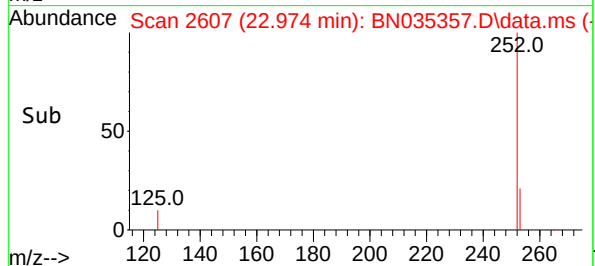
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 11094 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 25.7  | 20.2  | 30.4  |
| 125       | 14.3  | 10.9  | 16.3  |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024



#40

Dibenzo(a,h)anthracene

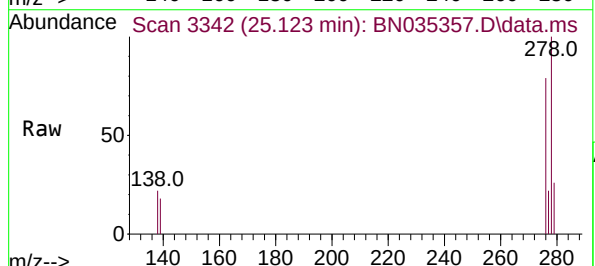
Concen: 0.433 ng

RT: 25.123 min Scan# 3342

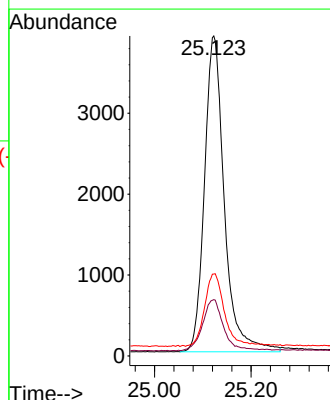
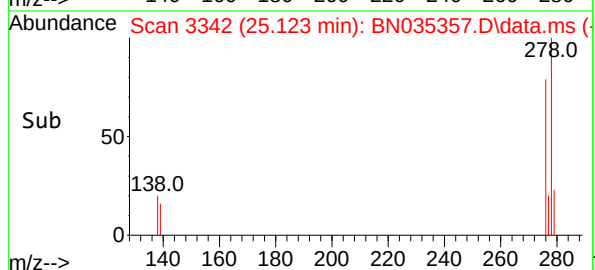
Delta R.T. -0.003 min

Lab File: BN035357.D

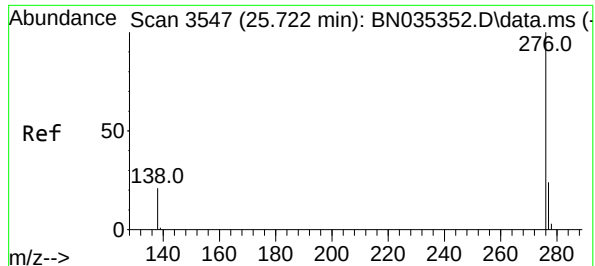
Acq: 27 Nov 2024 20:21



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 278   | Resp: | 11141 |
| Ion Ratio | Lower | Upper |       |
| 278       | 100   |       |       |
| 139       | 17.6  | 14.2  | 21.4  |
| 279       | 25.6  | 20.5  | 30.7  |







#41

Benzo(g,h,i)perylene

Concen: 0.404 ng

RT: 25.722 min Scan# 3

Delta R.T. -0.000 min

Lab File: BN035357.D

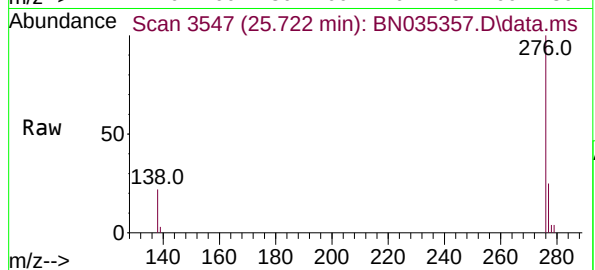
Acq: 27 Nov 2024 20:21

Instrument :

BNA\_N

ClientSampleId :

ICVBN112724



Tgt Ion:276 Resp: 10870

Ion Ratio Lower Upper

276 100

277 24.7 19.9 29.9

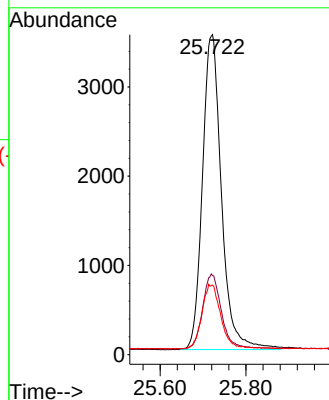
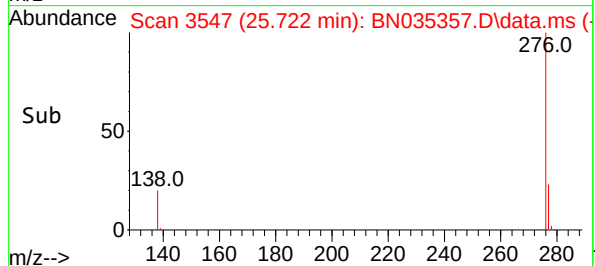
138 21.7 17.8 26.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112724\  
 Data File : BN035357.D  
 Acq On : 27 Nov 2024 20:21  
 Operator : RC/JU  
 Sample : SSTDICV0.4  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 ICVBN112724

Quant Time: Nov 27 23:06:03 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Nov 27 23:03:24 2024  
 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   | 75    | 0.00     |
| 2       | 1,4-Dioxane                | 0.382 | 0.444 | -16.2 | 89    | 0.00     |
| 3       | n-Nitrosodimethylamine     | 0.319 | 0.321 | -0.6  | 74    | 0.00     |
| 4 S     | 2-Fluorophenol             | 1.001 | 0.831 | 17.0  | 61    | 0.00     |
| 5 S     | Phenol-d6                  | 1.204 | 0.933 | 22.5  | 59    | 0.00     |
| 6       | bis(2-Chloroethyl)ether    | 1.012 | 1.088 | -7.5  | 82    | 0.00     |
| 7 I     | Naphthalene-d8             | 1.000 | 1.000 | 0.0   | 75    | 0.00     |
| 8 S     | Nitrobenzene-d5            | 0.244 | 0.240 | 1.6   | 76    | 0.00     |
| 9       | Naphthalene                | 1.055 | 1.118 | -6.0  | 80    | 0.00     |
| 10      | Hexachlorobutadiene        | 0.243 | 0.257 | -5.8  | 78    | 0.00     |
| 11 SURR | 2-Methylnaphthalene-d10    | 0.626 | 0.657 | -5.0  | 79    | 0.00     |
| 12      | 2-Methylnaphthalene        | 0.755 | 0.809 | -7.2  | 82    | 0.00     |
| 13 I    | Acenaphthene-d10           | 1.000 | 1.000 | 0.0   | 76    | 0.00     |
| 14 S    | 2,4,6-Tribromophenol       | 0.284 | 0.214 | 24.6  | 63    | 0.00     |
| 15 S    | 2-Fluorobiphenyl           | 1.512 | 1.614 | -6.7  | 81    | 0.00     |
| 16      | Acenaphthylene             | 1.680 | 1.827 | -8.8  | 87    | 0.00     |
| 17      | Acenaphthene               | 1.115 | 1.188 | -6.5  | 83    | 0.00     |
| 18      | Fluorene                   | 1.596 | 1.676 | -5.0  | 82    | 0.00     |
| 19 I    | Phenanthrene-d10           | 1.000 | 1.000 | 0.0   | 77    | -0.01    |
| 20      | 4,6-Dinitro-2-methylphenol | 0.039 | 0.036 | 7.7   | 78    | 0.00     |
| 21      | 4-Bromophenyl-phenylether  | 0.234 | 0.237 | -1.3  | 81    | 0.00     |
| 22      | Hexachlorobenzene          | 0.275 | 0.293 | -6.5  | 83    | 0.00     |
| 23      | Atrazine                   | 0.167 | 0.167 | 0.0   | 84    | 0.00     |
| 24      | Pentachlorophenol          | 0.120 | 0.090 | 25.0  | 73    | 0.00     |
| 25      | Phenanthrene               | 1.099 | 1.158 | -5.4  | 84    | 0.00     |
| 26      | Anthracene                 | 0.994 | 1.068 | -7.4  | 88    | 0.00     |
| 27 SURR | Fluoranthene-d10           | 1.134 | 1.145 | -1.0  | 82    | 0.00     |
| 28      | Fluoranthene               | 1.481 | 1.489 | -0.5  | 81    | 0.00     |
| 29 I    | Chrysene-d12               | 1.000 | 1.000 | 0.0   | 80    | 0.00     |
| 30      | Pyrene                     | 1.477 | 1.515 | -2.6  | 82    | 0.00     |
| 31 S    | Terphenyl-d14              | 0.789 | 0.828 | -4.9  | 83    | 0.00     |
| 32      | Benzo(a)anthracene         | 1.399 | 1.443 | -3.1  | 85    | 0.00     |
| 33      | Chrysene                   | 1.443 | 1.574 | -9.1  | 87    | 0.00     |
| 34      | Bis(2-ethylhexyl)phthalate | 0.553 | 0.530 | 4.2   | 82    | 0.00     |
| 35 I    | Perylene-d12               | 1.000 | 1.000 | 0.0   | 77    | 0.00     |
| 36      | Indeno(1,2,3-cd)pyrene     | 1.564 | 1.731 | -10.7 | 87    | 0.00     |
| 37      | Benzo(b)fluoranthene       | 1.463 | 1.558 | -6.5  | 91    | 0.00     |
| 38      | Benzo(k)fluoranthene       | 1.440 | 1.519 | -5.5  | 83    | 0.00     |
| 39 C    | Benzo(a)pyrene             | 1.205 | 1.331 | -10.5 | 89    | 0.00     |
| 40      | Dibenzo(a,h)anthracene     | 1.234 | 1.336 | -8.3  | 86    | 0.00     |
| 41      | Benzo(g,h,i)perylene       | 1.289 | 1.304 | -1.2  | 80    | 0.00     |

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112724\  
 Data File : BN035357.D  
 Acq On : 27 Nov 2024 20:21  
 Operator : RC/JU  
 Sample : SSTDICV0.4  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 ICVBN112724

Quant Time: Nov 27 23:06:03 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Nov 27 23:03:24 2024  
 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   | 75    | 0.00     |
| 2       | 1,4-Dioxane                | 0.400  | 0.465 | -16.3 | 89    | 0.00     |
| 3       | n-Nitrosodimethylamine     | 0.400  | 0.404 | -1.0  | 74    | 0.00     |
| 4 S     | 2-Fluorophenol             | 0.400  | 0.332 | 17.0  | 61    | 0.00     |
| 5 S     | Phenol-d6                  | 0.400  | 0.310 | 22.5  | 59    | 0.00     |
| 6       | bis(2-Chloroethyl)ether    | 0.400  | 0.430 | -7.5  | 82    | 0.00     |
| 7 I     | Naphthalene-d8             | 0.400  | 0.400 | 0.0   | 75    | 0.00     |
| 8 S     | Nitrobenzene-d5            | 0.400  | 0.393 | 1.8   | 76    | 0.00     |
| 9       | Naphthalene                | 0.400  | 0.424 | -6.0  | 80    | 0.00     |
| 10      | Hexachlorobutadiene        | 0.400  | 0.423 | -5.7  | 78    | 0.00     |
| 11 SURR | 2-Methylnaphthalene-d10    | 0.400  | 0.420 | -5.0  | 79    | 0.00     |
| 12      | 2-Methylnaphthalene        | 0.400  | 0.428 | -7.0  | 82    | 0.00     |
| 13 I    | Acenaphthene-d10           | 0.400  | 0.400 | 0.0   | 76    | 0.00     |
| 14 S    | 2,4,6-Tribromophenol       | 0.400  | 0.302 | 24.5  | 63    | 0.00     |
| 15 S    | 2-Fluorobiphenyl           | 0.400  | 0.427 | -6.7  | 81    | 0.00     |
| 16      | Acenaphthylene             | 0.400  | 0.435 | -8.7  | 87    | 0.00     |
| 17      | Acenaphthene               | 0.400  | 0.426 | -6.5  | 83    | 0.00     |
| 18      | Fluorene                   | 0.400  | 0.420 | -5.0  | 82    | 0.00     |
| 19 I    | Phenanthrene-d10           | 0.400  | 0.400 | 0.0   | 77    | -0.01    |
| 20      | 4,6-Dinitro-2-methylphenol | 0.400  | 0.364 | 9.0   | 78    | 0.00     |
| 21      | 4-Bromophenyl-phenylether  | 0.400  | 0.405 | -1.3  | 81    | 0.00     |
| 22      | Hexachlorobenzene          | 0.400  | 0.426 | -6.5  | 83    | 0.00     |
| 23      | Atrazine                   | 0.400  | 0.401 | -0.3  | 84    | 0.00     |
| 24      | Pentachlorophenol          | 0.400  | 0.301 | 24.8  | 73    | 0.00     |
| 25      | Phenanthrene               | 0.400  | 0.421 | -5.2  | 84    | 0.00     |
| 26      | Anthracene                 | 0.400  | 0.430 | -7.5  | 88    | 0.00     |
| 27 SURR | Fluoranthene-d10           | 0.400  | 0.404 | -1.0  | 82    | 0.00     |
| 28      | Fluoranthene               | 0.400  | 0.402 | -0.5  | 81    | 0.00     |
| 29 I    | Chrysene-d12               | 0.400  | 0.400 | 0.0   | 80    | 0.00     |
| 30      | Pyrene                     | 0.400  | 0.410 | -2.5  | 82    | 0.00     |
| 31 S    | Terphenyl-d14              | 0.400  | 0.420 | -5.0  | 83    | 0.00     |
| 32      | Benzo(a)anthracene         | 0.400  | 0.413 | -3.2  | 85    | 0.00     |
| 33      | Chrysene                   | 0.400  | 0.436 | -9.0  | 87    | 0.00     |
| 34      | Bis(2-ethylhexyl)phthalate | 0.400  | 0.384 | 4.0   | 82    | 0.00     |
| 35 I    | Perylene-d12               | 0.400  | 0.400 | 0.0   | 77    | 0.00     |
| 36      | Indeno(1,2,3-cd)pyrene     | 0.400  | 0.443 | -10.7 | 87    | 0.00     |
| 37      | Benzo(b)fluoranthene       | 0.400  | 0.426 | -6.5  | 91    | 0.00     |
| 38      | Benzo(k)fluoranthene       | 0.400  | 0.422 | -5.5  | 83    | 0.00     |
| 39 C    | Benzo(a)pyrene             | 0.400  | 0.442 | -10.5 | 89    | 0.00     |
| 40      | Dibenzo(a,h)anthracene     | 0.400  | 0.433 | -8.2  | 86    | 0.00     |
| 41      | Benzo(g,h,i)perylene       | 0.400  | 0.404 | -1.0  | 80    | 0.00     |

(#) = Out of Range

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



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

7C

## SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P5284 SAS No.: P5284 SDG No.: P5284

Instrument ID: BNA\_N Calibration Date/Time: 12/20/2024 08:04

Lab File ID: BN035731.D Init. Calib. Date(s): 11/27/2024 11/27/2024

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 15:34 19:09

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

| COMPOUND                | RRF   | RRF0.4 | MIN<br>RRF | %D    | MAX%D |
|-------------------------|-------|--------|------------|-------|-------|
| 2-Methylnaphthalene-d10 | 0.626 | 0.562  |            | -10.2 | 20.0  |
| Fluoranthene-d10        | 1.134 | 0.985  |            | -13.1 | 20.0  |
| 2-Fluorophenol          | 1.001 | 0.990  |            | -1.1  | 20.0  |
| Phenol-d6               | 1.204 | 1.140  |            | -5.3  | 20.0  |
| Nitrobenzene-d5         | 0.244 | 0.284  |            | 16.4  | 20.0  |
| 2-Fluorobiphenyl        | 1.512 | 1.376  |            | -9.0  | 20.0  |
| 2,4,6-Tribromophenol    | 0.284 | 0.221  |            | -22.2 | 20.0  |
| Terphenyl-d14           | 0.789 | 0.839  |            | 6.3   | 20.0  |
| 1,4-Dioxane             | 0.382 | 0.405  |            | 6.0   | 20.0  |

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN121924\  
 Data File : BN035731.D  
 Acq On : 20 Dec 2024 08:04  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

## Instrument :

BNA\_N

## ClientSampleId :

SSTDCCC0.4

## Manual Integrations

## APPROVED

Reviewed By :Yogesh Patel 12/21/2024

Supervised By :mohammad ahmed 12/24/2024

Quant Time: Dec 20 08:27:53 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Thu Dec 19 23:06:19 2024

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.271  | 152  | 3239     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.020 | 136  | 8431     | 0.400 | ng    | # 0.00   |
| 13) Acenaphthene-d10          | 13.924 | 164  | 5341     | 0.400 | ng    | -0.01    |
| 19) Phenanthrene-d10          | 16.698 | 188  | 10575    | 0.400 | ng    | # 0.00   |
| 29) Chrysene-d12              | 20.956 | 240  | 8878     | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.038 | 264  | 9229     | 0.400 | ng    | # 0.00   |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 4.939  | 112  | 3206     | 0.396 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.484  | 99   | 3691     | 0.379 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.408  | 82   | 2398m    | 0.466 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.621 | 152  | 4741     | 0.359 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.453 | 330  | 1180     | 0.311 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.538 | 172  | 7347     | 0.364 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 18.761 | 212  | 10416    | 0.347 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.388 | 244  | 7453     | 0.426 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
|                               |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 2.981  | 88   | 1312     | 0.424 | ng    | 96       |
| 3) n-Nitrosodimethylamine     | 3.278  | 42   | 1070     | 0.415 | ng    | # 94     |
| 6) bis(2-Chloroethyl)ether    | 6.723  | 93   | 2987     | 0.365 | ng    | 100      |
| 9) Naphthalene                | 10.062 | 128  | 8331     | 0.375 | ng    | 100      |
| 10) Hexachlorobutadiene       | 10.351 | 225  | 2194     | 0.428 | ng    | # 99     |
| 12) 2-Methylnaphthalene       | 11.697 | 142  | 5286     | 0.332 | ng    | 100      |
| 16) Acenaphthylene            | 13.646 | 152  | 7931     | 0.354 | ng    | 100      |
| 17) Acenaphthene              | 13.989 | 154  | 5347     | 0.359 | ng    | 99       |
| 18) Fluorene                  | 14.993 | 166  | 7004     | 0.329 | ng    | 99       |
| 20) 4,6-Dinitro-2-methylph... | 15.122 | 198  | 83       | 0.080 | ng    | # 1      |
| 21) 4-Bromophenyl-phenylether | 15.904 | 248  | 2216     | 0.358 | ng    | # 71     |
| 22) Hexachlorobenzene         | 16.003 | 284  | 3183     | 0.438 | ng    | 97       |
| 23) Atrazine                  | 16.202 | 200  | 1696     | 0.385 | ng    | 98       |
| 24) Pentachlorophenol         | 16.375 | 266  | 1107     | 0.350 | ng    | # 83     |
| 25) Phenanthrene              | 16.748 | 178  | 10192    | 0.351 | ng    | 100      |
| 26) Anthracene                | 16.835 | 178  | 9082     | 0.346 | ng    | 99       |
| 28) Fluoranthene              | 18.789 | 202  | 12678    | 0.324 | ng    | 99       |
| 30) Pyrene                    | 19.156 | 202  | 13069    | 0.399 | ng    | 100      |
| 32) Benzo(a)anthracene        | 20.938 | 228  | 10542    | 0.339 | ng    | 100      |
| 33) Chrysene                  | 20.991 | 228  | 12448    | 0.389 | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 20.902 | 149  | 5271     | 0.430 | ng    | 99       |
| 36) Indeno(1,2,3-cd)pyrene    | 25.061 | 276  | 13578    | 0.376 | ng    | 96       |
| 37) Benzo(b)fluoranthene      | 22.427 | 252  | 14777    | 0.438 | ng    | 97       |
| 38) Benzo(k)fluoranthene      | 22.468 | 252  | 12300m   | 0.370 | ng    |          |
| 39) Benzo(a)pyrene            | 22.947 | 252  | 10146    | 0.365 | ng    | # 92     |
| 40) Dibenzo(a,h)anthracene    | 25.079 | 278  | 10523    | 0.370 | ng    | 97       |
| 41) Benzo(g,h,i)perylene      | 25.672 | 276  | 11906    | 0.400 | ng    | 98       |
| -----                         |        |      |          |       |       |          |

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

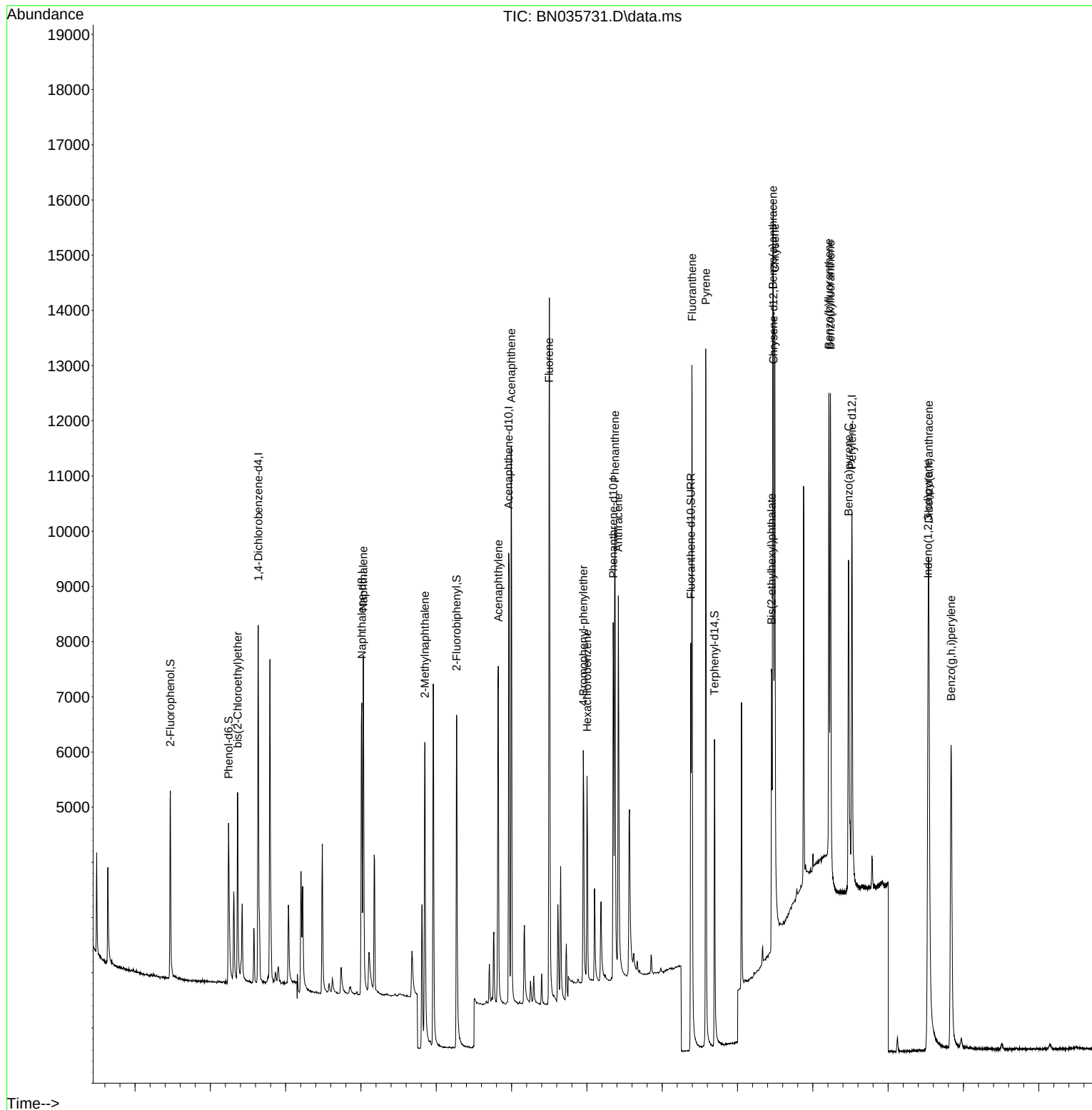
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Data File : BN035731.D  
Acq On : 20 Dec 2024 08:04  
Operator : RC/JU  
Sample : SSTDCCC0.4  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

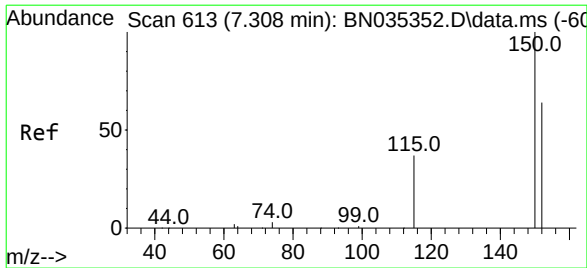
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 12/21/2024  
Supervised By :mohammad ahmed 12/24/2024

Quant Time: Dec 20 08:27:53 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Dec 19 23:06:19 2024  
Response via : Initial Calibration





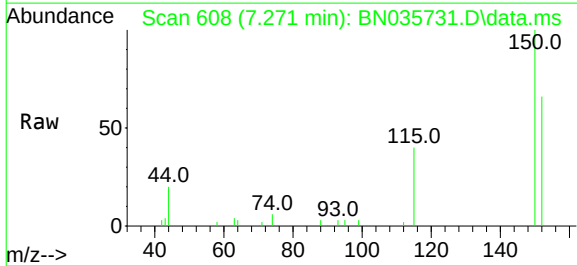
#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.271 min Scan# 60  
Delta R.T. -0.001 min  
Lab File: BN035731.D  
Acq: 20 Dec 2024 08:04

Instrument :

BNA\_N

ClientSampleId :

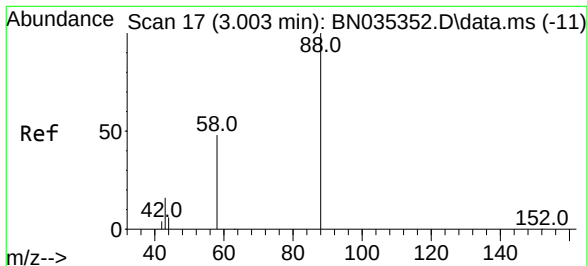
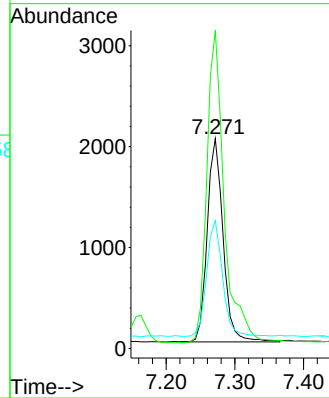
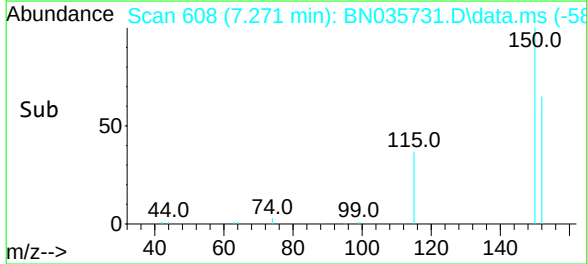
SSTDCCC0.4



Tgt Ion: 152 Resp: 3239  
Ion Ratio Lower Upper  
152 100  
150 151.6 124.0 186.0  
115 60.9 49.6 74.4

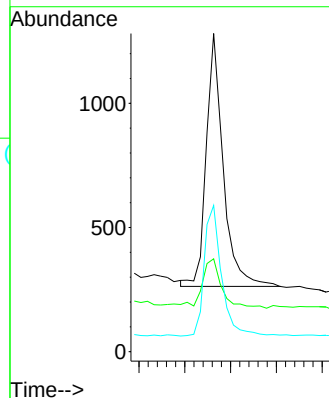
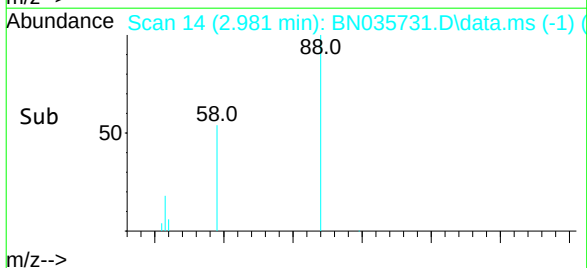
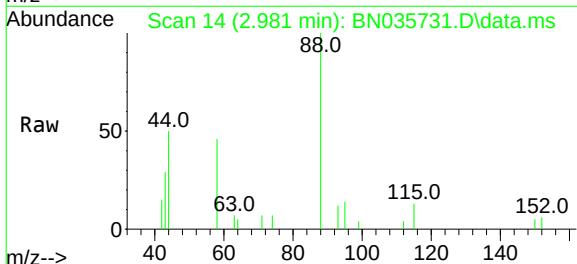
Manual Integrations  
APPROVED

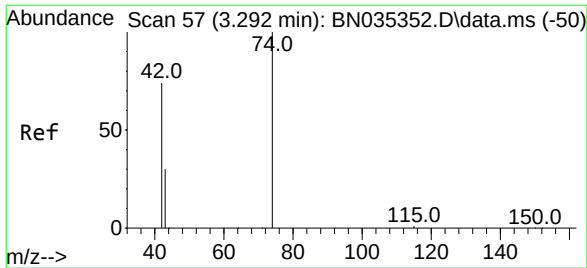
Reviewed By :Yogesh Patel 12/21/2024  
Supervised By :mohammad ahmed 12/24/2024



#2  
1,4-Dioxane  
Concen: 0.424 ng  
RT: 2.981 min Scan# 14  
Delta R.T. -0.000 min  
Lab File: BN035731.D  
Acq: 20 Dec 2024 08:04

Tgt Ion: 88 Resp: 1312  
Ion Ratio Lower Upper  
88 100  
43 23.4 17.2 25.8  
58 52.7 44.5 66.7





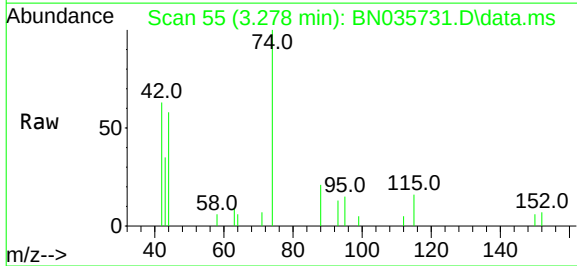
#3  
n-Nitrosodimethylamine  
Concen: 0.415 ng  
RT: 3.278 min Scan# 55  
Delta R.T. -0.000 min  
Lab File: BN035731.D  
Acq: 20 Dec 2024 08:04

Instrument :

BNA\_N

ClientSampleId :

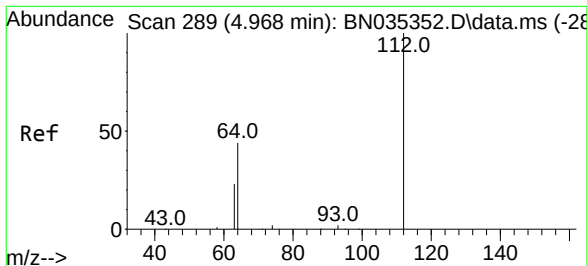
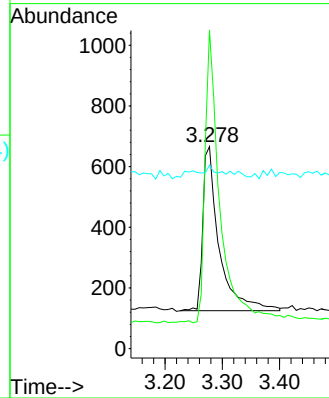
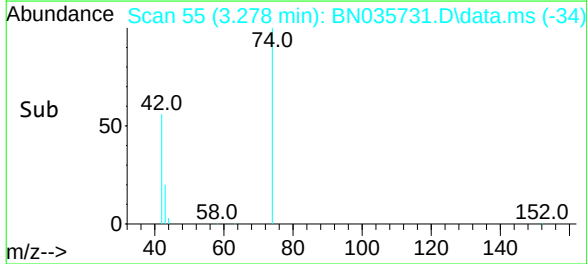
SSTDCCC0.4



Tgt Ion: 42 Resp: 1070  
Ion Ratio Lower Upper  
42 100  
74 163.5 124.9 187.3  
44 1.8 2.2 3.4#

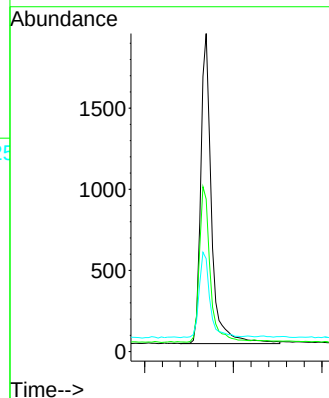
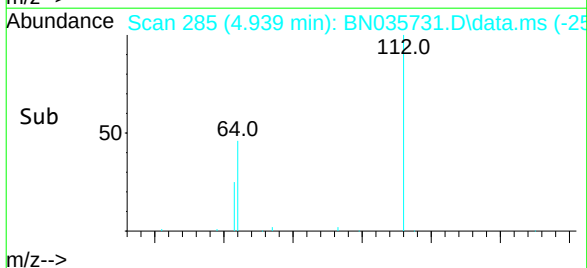
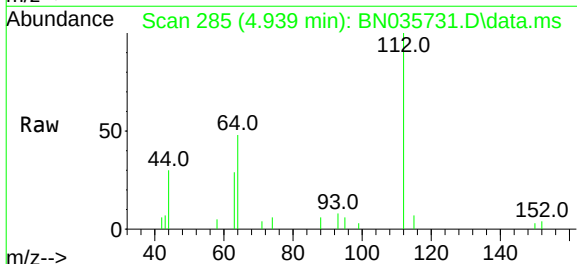
Manual Integrations  
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Supervised By :mohammad ahmed 12/24/2024

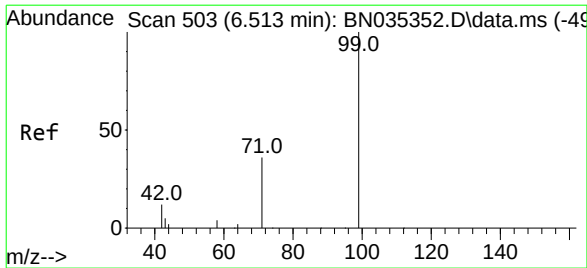


#4  
2-Fluorophenol  
Concen: 0.396 ng  
RT: 4.939 min Scan# 285  
Delta R.T. -0.000 min  
Lab File: BN035731.D  
Acq: 20 Dec 2024 08:04

Tgt Ion:112 Resp: 3206  
Ion Ratio Lower Upper  
112 100  
64 50.6 39.8 59.8  
63 27.8 21.0 31.6

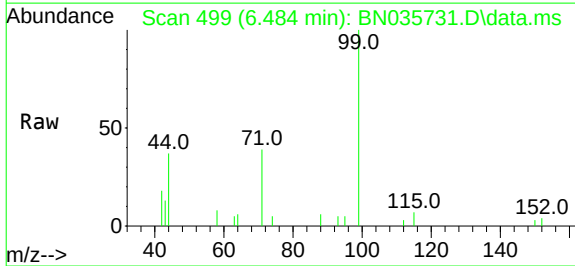






#5  
Phenol-d6  
Concen: 0.379 ng  
RT: 6.484 min Scan# 499  
Delta R.T. -0.007 min  
Lab File: BN035731.D  
Acq: 20 Dec 2024 08:04

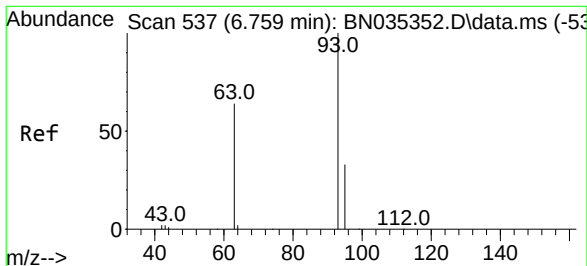
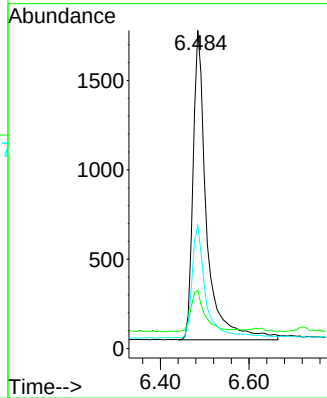
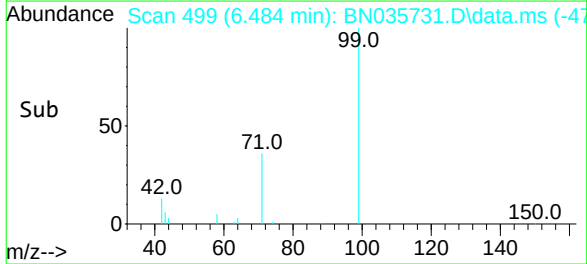
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 99      | 100   |       |       |
| 42      | 13.8  | 11.4  | 17.2  |
| 71      | 36.7  | 29.3  | 43.9  |

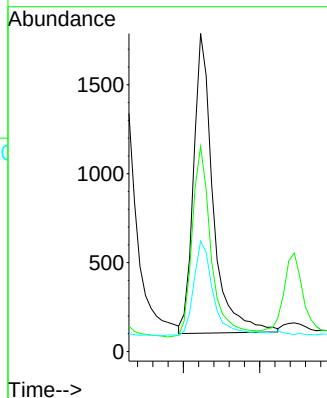
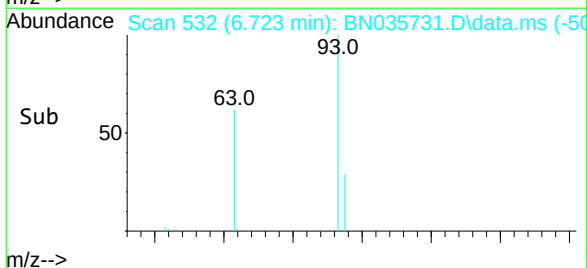
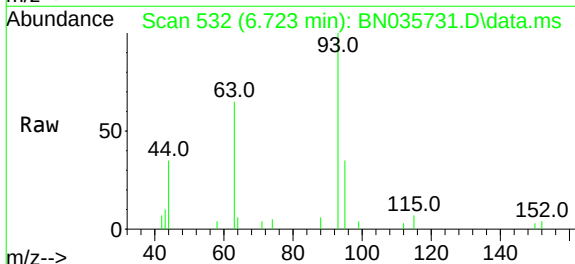
Manual Integrations  
**APPROVED**

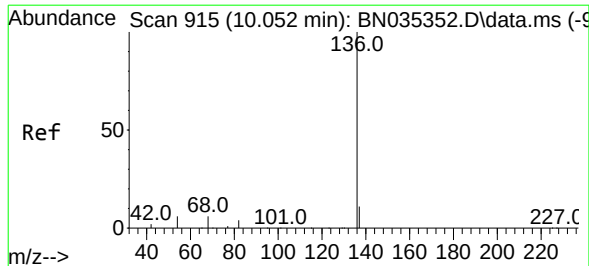
Reviewed By :Yogesh Patel 12/21/2024  
Supervised By :mohammad ahmed 12/24/2024



#6  
bis(2-Chloroethyl)ether  
Concen: 0.365 ng  
RT: 6.723 min Scan# 532  
Delta R.T. -0.007 min  
Lab File: BN035731.D  
Acq: 20 Dec 2024 08:04

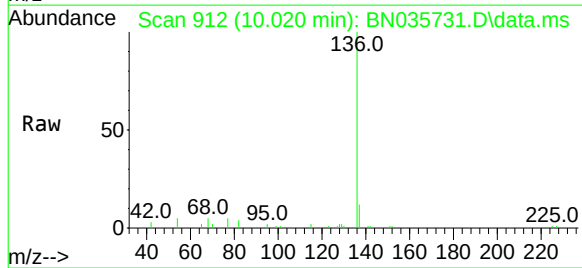
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 93      | 100   |       |       |
| 63      | 62.5  | 50.4  | 75.6  |
| 95      | 32.2  | 25.7  | 38.5  |





#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.020 min Scan# 915  
Delta R.T. -0.000 min  
Lab File: BN035731.D  
Acq: 20 Dec 2024 08:04

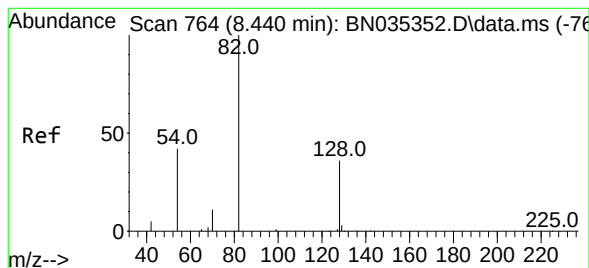
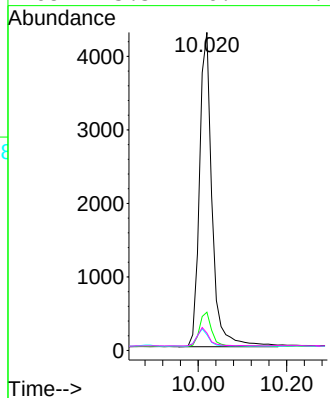
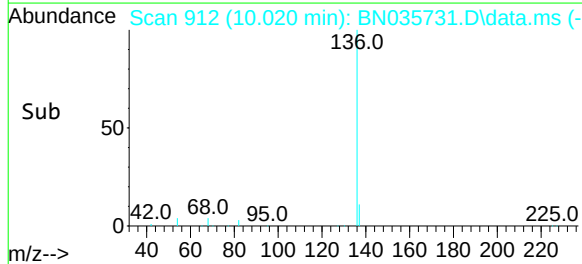
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4



Tgt Ion: 136 Resp: 8431  
Ion Ratio Lower Upper  
136 100  
137 12.0 10.2 15.2  
54 5.0 6.1 9.1#  
68 5.5 6.4 9.6#

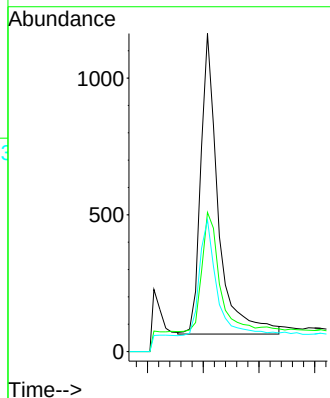
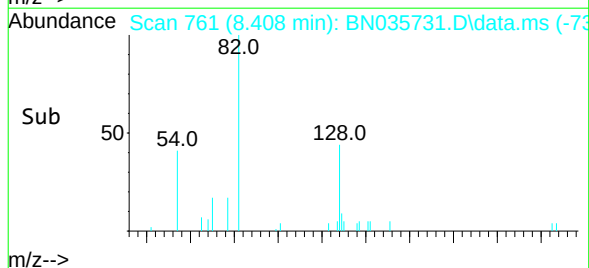
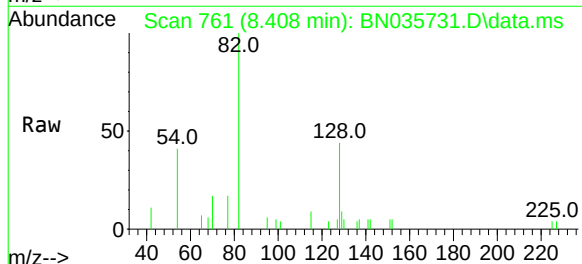
Manual Integrations  
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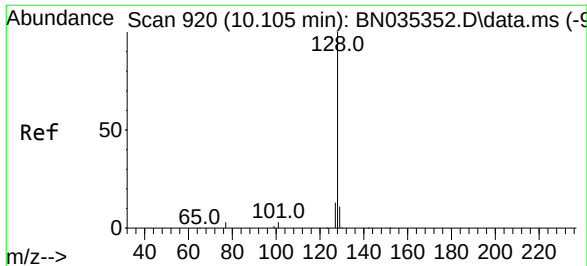
Reviewed By :Yogesh Patel 12/21/2024  
Supervised By :mohammad ahmed 12/24/2024



#8  
Nitrobenzene-d5  
Concen: 0.466 ng m  
RT: 8.408 min Scan# 761  
Delta R.T. -0.000 min  
Lab File: BN035731.D  
Acq: 20 Dec 2024 08:04

Tgt Ion: 82 Resp: 2398  
Ion Ratio Lower Upper  
82 100  
128 43.8 33.4 50.0  
54 41.4 36.7 55.1





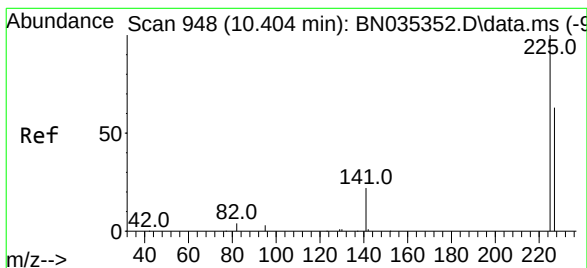
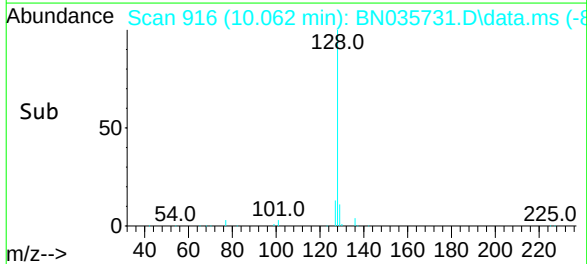
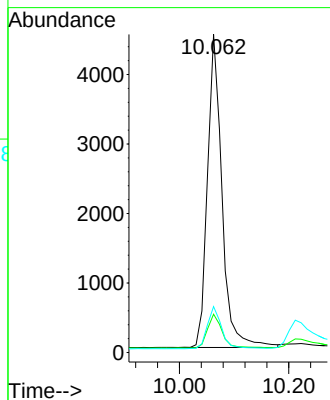
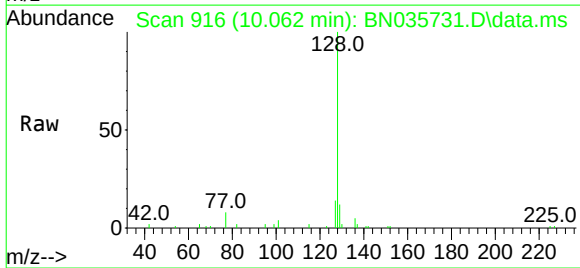
#9  
Naphthalene  
Concen: 0.375 ng  
RT: 10.062 min Scan# 916  
Delta R.T. -0.000 min  
Lab File: BN035731.D  
Acq: 20 Dec 2024 08:04

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

| Tgt Ion | 128 | 129  | 127  |
|---------|-----|------|------|
| Ratio   | 100 | 12.0 | 14.4 |
| Lower   |     | 9.8  | 11.4 |
| Upper   |     | 14.6 | 17.2 |

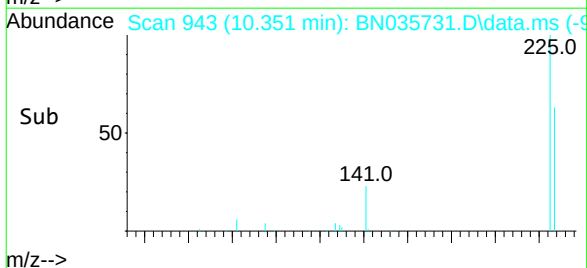
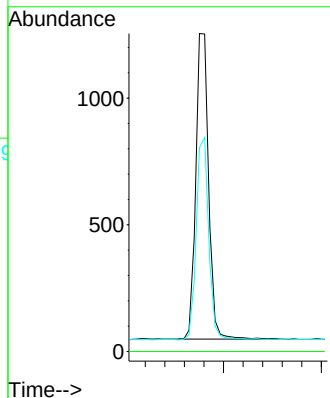
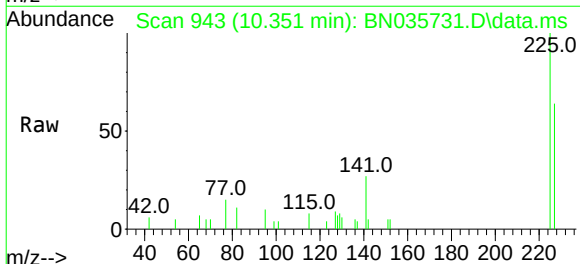
Manual Integrations  
APPROVED

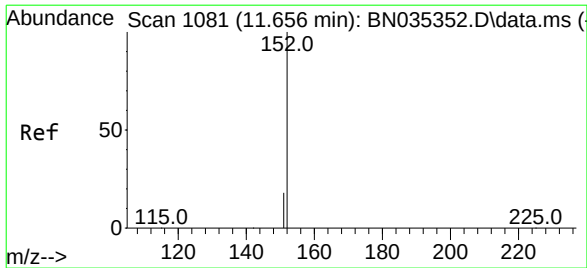
Reviewed By :Yogesh Patel 12/21/2024  
Supervised By :mohammad ahmed 12/24/2024



#10  
Hexachlorobutadiene  
Concen: 0.428 ng  
RT: 10.351 min Scan# 943  
Delta R.T. -0.011 min  
Lab File: BN035731.D  
Acq: 20 Dec 2024 08:04

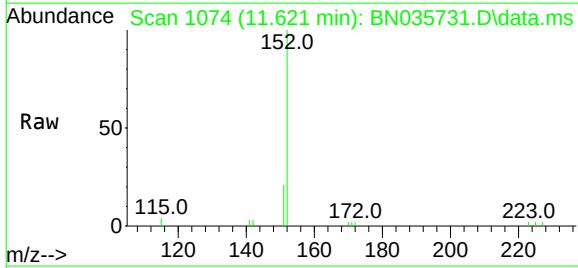
| Tgt Ion | 225 | 223 | 227  |
|---------|-----|-----|------|
| Ratio   | 100 | 0.0 | 65.1 |
| Lower   |     | 0.0 | 51.3 |
| Upper   |     | 0.0 | 76.9 |





#11  
2-Methylnaphthalene-d10  
Concen: 0.359 ng  
RT: 11.621 min Scan# 1080  
Delta R.T. -0.000 min  
Lab File: BN035731.D  
Acq: 20 Dec 2024 08:04

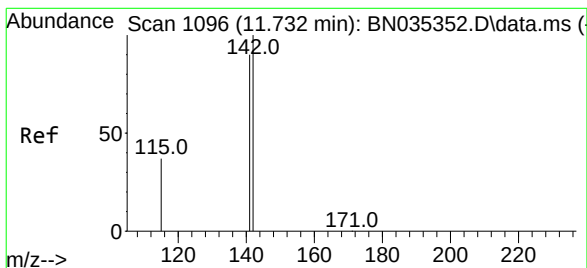
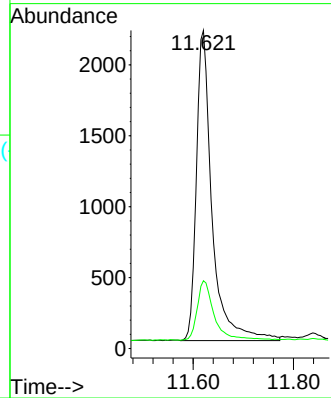
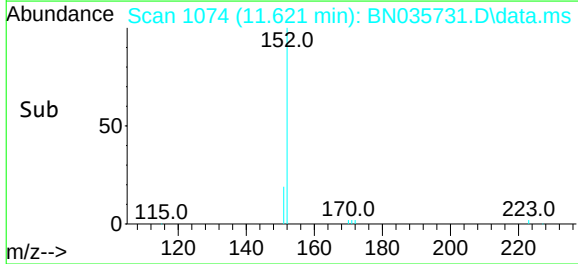
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4



Tgt Ion:152 Resp: 4741  
Ion Ratio Lower Upper  
152 100  
151 20.9 16.6 25.0

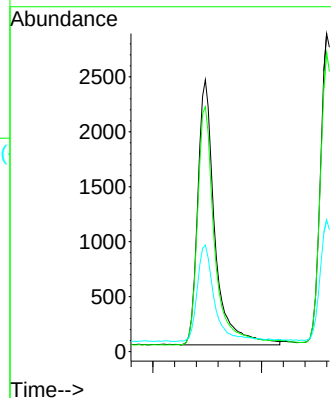
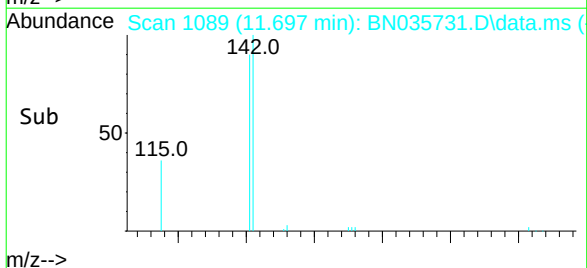
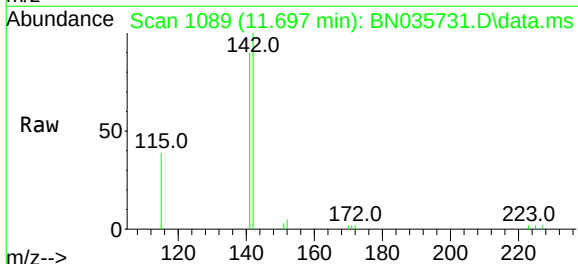
Manual Integrations  
**APPROVED**

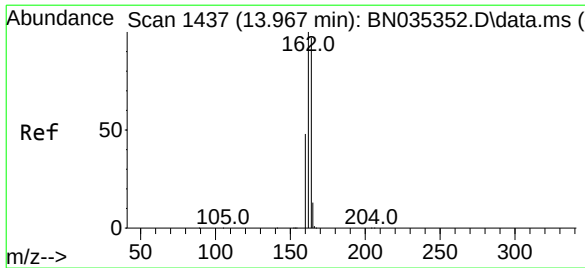
Reviewed By :Yogesh Patel 12/21/2024  
Supervised By :mohammad ahmed 12/24/2024



#12  
2-Methylnaphthalene  
Concen: 0.332 ng  
RT: 11.697 min Scan# 1089  
Delta R.T. -0.000 min  
Lab File: BN035731.D  
Acq: 20 Dec 2024 08:04

Tgt Ion:142 Resp: 5286  
Ion Ratio Lower Upper  
142 100  
141 90.1 72.2 108.4  
115 39.2 31.4 47.0





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 13.924 min Scan# 14

Delta R.T. -0.011 min

Lab File: BN035731.D

Acq: 20 Dec 2024 08:04

Instrument :

BNA\_N

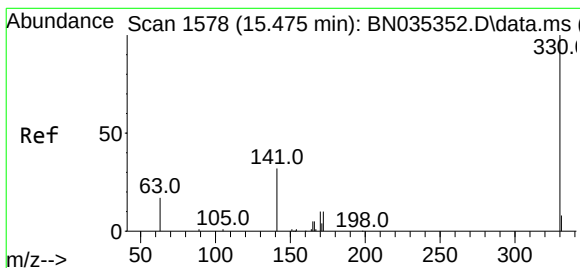
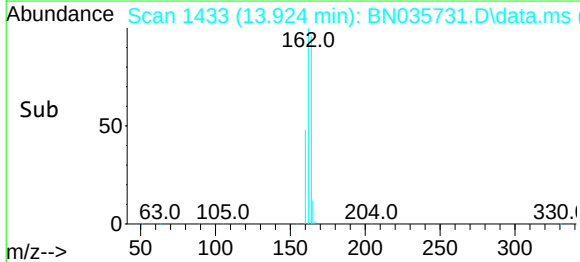
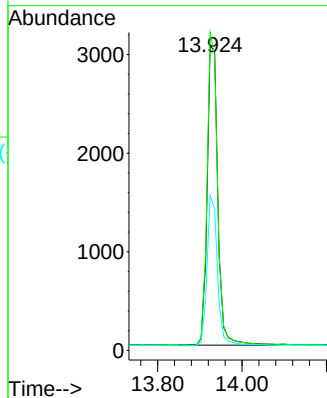
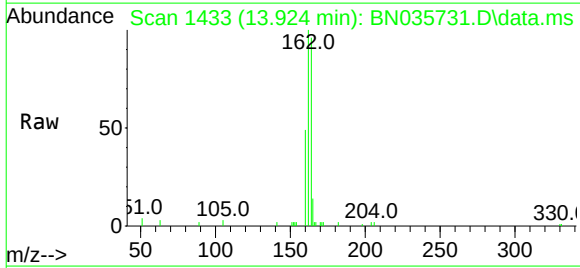
ClientSampleId :

SSTDCCC0.4

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 5341  |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 162      | 104.3 | 82.2  | 123.2 |
| 160      | 50.8  | 40.1  | 60.1  |

Manual Integrations  
**APPROVED**

Reviewed By :Yogesh Patel 12/21/2024  
Supervised By :mohammad ahmed 12/24/2024



#14

2,4,6-Tribromophenol

Concen: 0.311 ng

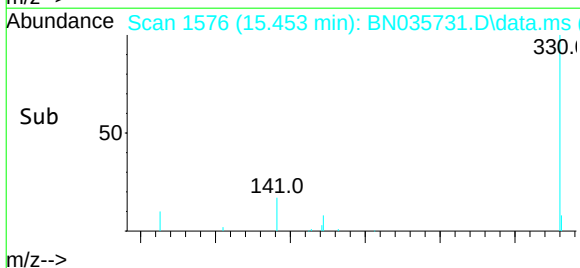
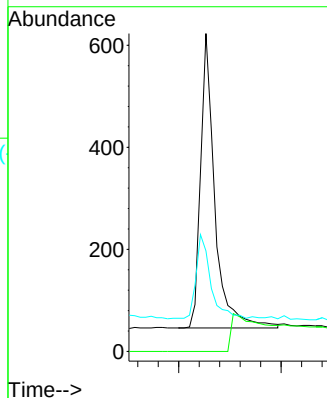
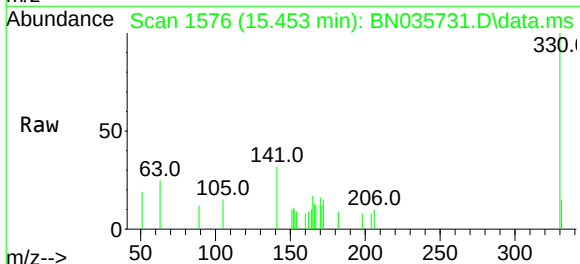
RT: 15.453 min Scan# 1576

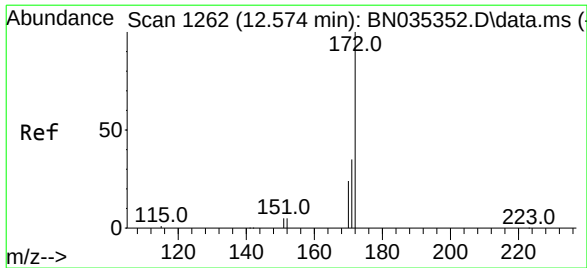
Delta R.T. -0.000 min

Lab File: BN035731.D

Acq: 20 Dec 2024 08:04

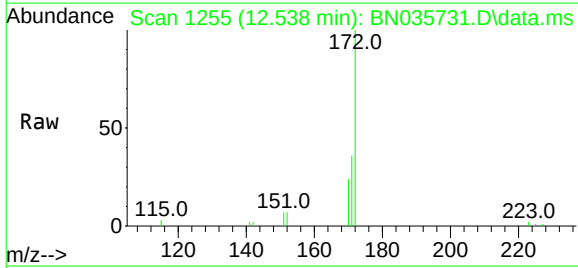
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 330   | Resp: | 1180  |
| Ion      | Ratio | Lower | Upper |
| 330      | 100   |       |       |
| 332      | 0.0   | 0.0   | 0.0   |
| 141      | 28.6  | 26.6  | 40.0  |





#15  
2-Fluorobiphenyl  
Concen: 0.364 ng  
RT: 12.538 min Scan# 1262  
Delta R.T. -0.005 min  
Lab File: BN035731.D  
Acq: 20 Dec 2024 08:04

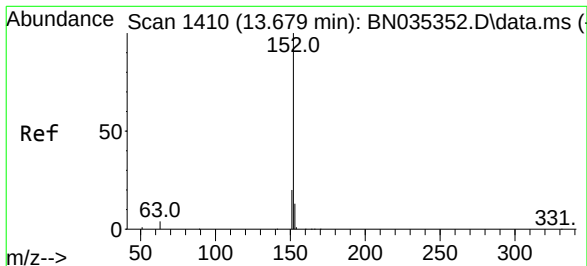
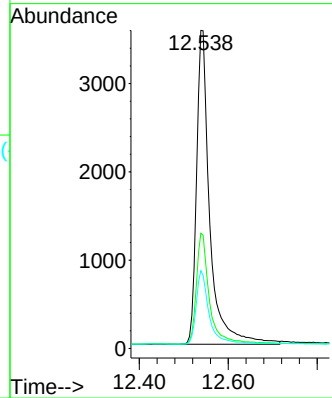
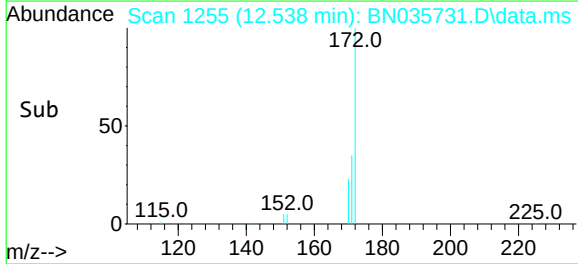
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4



Tgt Ion:172 Resp: 7347  
Ion Ratio Lower Upper  
172 100  
171 36.2 29.0 43.4  
170 24.5 19.8 29.8

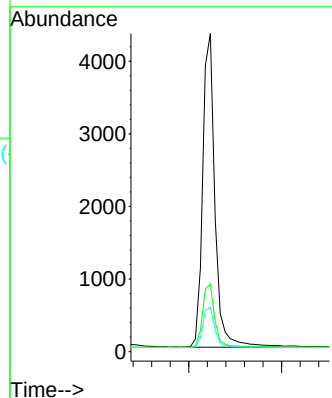
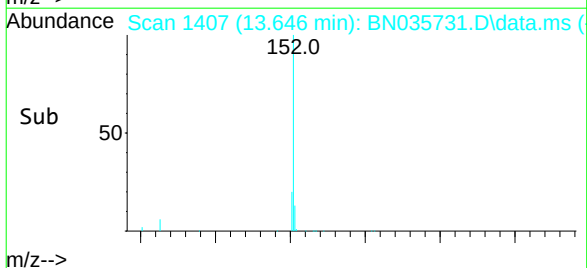
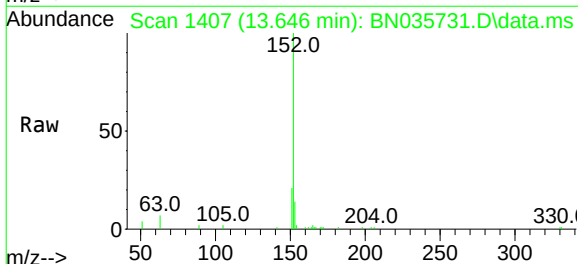
Manual Integrations  
APPROVED

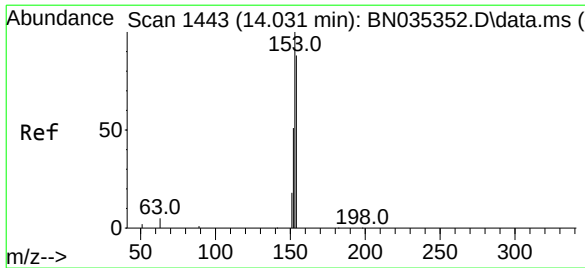
Reviewed By :Yogesh Patel 12/21/2024  
Supervised By :mohammad ahmed 12/24/2024



#16  
Acenaphthylene  
Concen: 0.354 ng  
RT: 13.646 min Scan# 1407  
Delta R.T. -0.000 min  
Lab File: BN035731.D  
Acq: 20 Dec 2024 08:04

Tgt Ion:152 Resp: 7931  
Ion Ratio Lower Upper  
152 100  
151 20.5 16.2 24.2  
153 13.0 10.4 15.6





#17

Acenaphthene

Concen: 0.359 ng

RT: 13.989 min Scan# 14

Delta R.T. -0.011 min

Lab File: BN035731.D

Acq: 20 Dec 2024 08:04

Instrument :

BNA\_N

ClientSampleId :

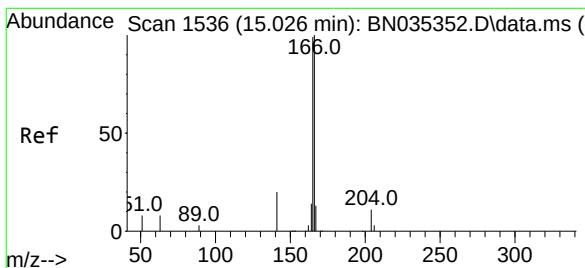
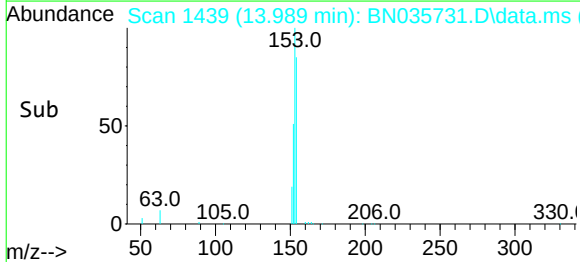
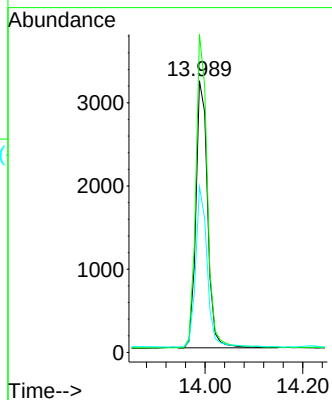
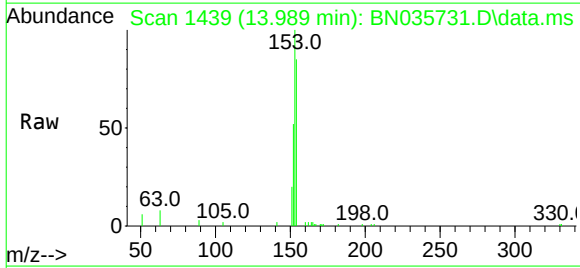
SSTDCCC0.4

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 154   | Resp: | 5347  |
| Ion Ratio | Lower | Upper |       |
| 154       | 100   |       |       |
| 153       | 116.2 | 92.6  | 139.0 |
| 152       | 59.2  | 49.0  | 73.6  |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/21/2024  
Supervised By :mohammad ahmed 12/24/2024



#18

Fluorene

Concen: 0.329 ng

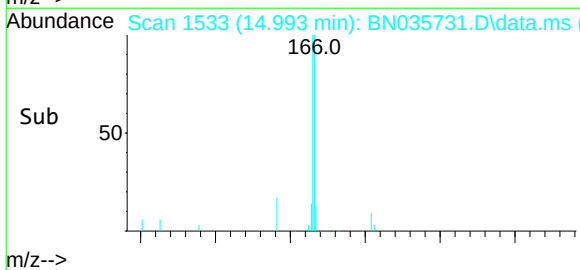
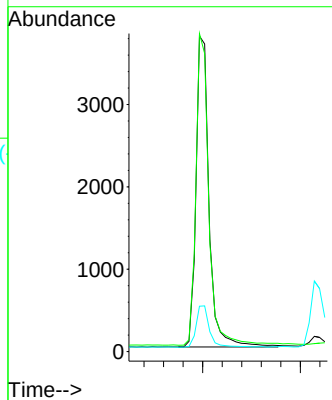
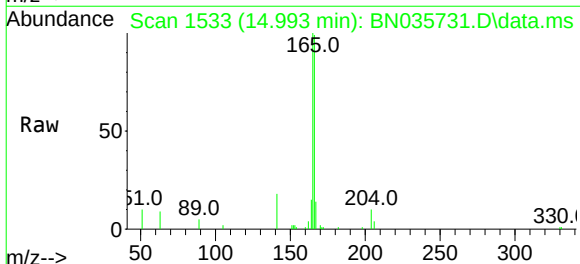
RT: 14.993 min Scan# 1533

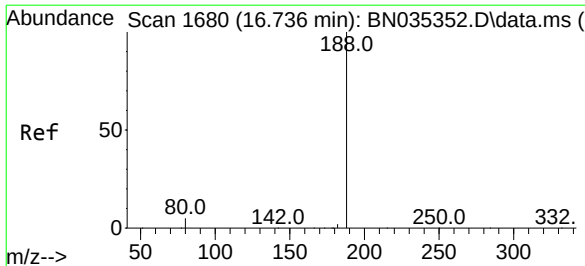
Delta R.T. -0.011 min

Lab File: BN035731.D

Acq: 20 Dec 2024 08:04

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 166   | Resp: | 7004  |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 98.3  | 79.7  | 119.5 |
| 167       | 13.7  | 10.8  | 16.2  |





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.698 min Scan# 16

Delta R.T. -0.000 min

Lab File: BN035731.D

Acq: 20 Dec 2024 08:04

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion:188 Resp: 10575

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

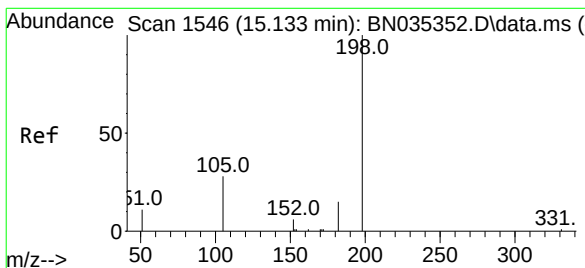
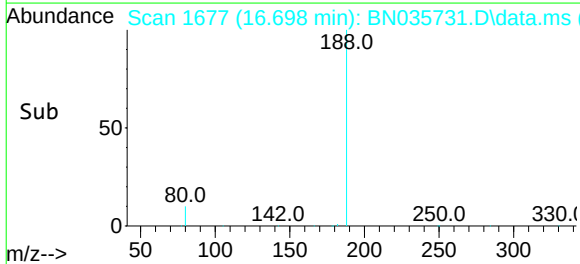
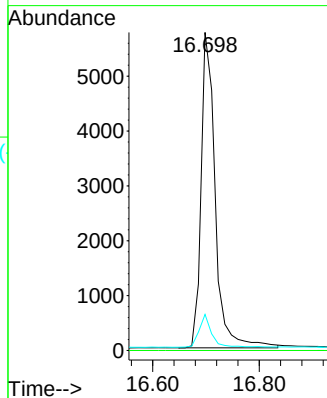
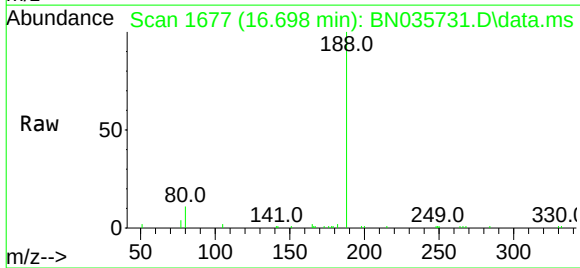
80 11.3 4.6 6.8#

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/21/2024

Supervised By :mohammad ahmed 12/24/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 0.080 ng

RT: 15.122 min Scan# 1545

Delta R.T. -0.000 min

Lab File: BN035731.D

Acq: 20 Dec 2024 08:04

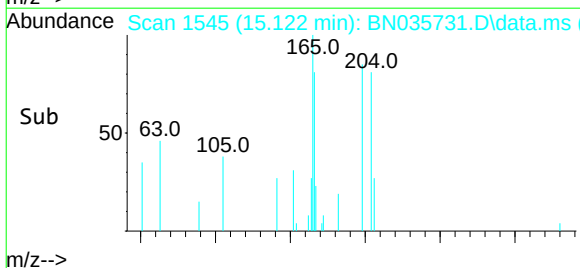
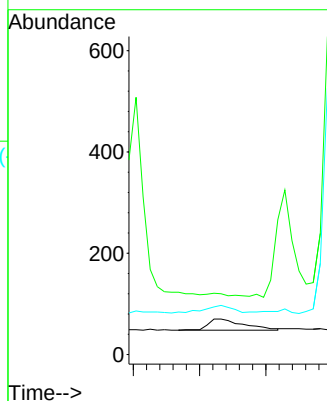
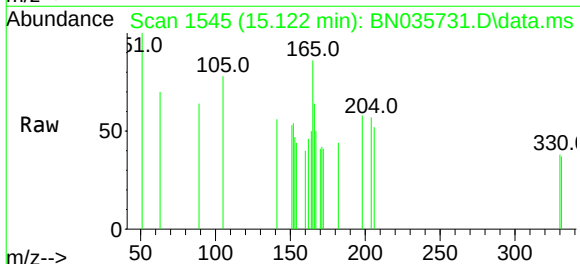
Tgt Ion:198 Resp: 83

Ion Ratio Lower Upper

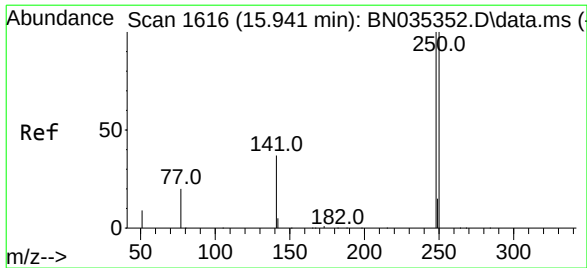
198 100

51 172.9 46.5 69.7#

105 134.3 45.3 67.9#







#21

4-Bromophenyl-phenylether

Concen: 0.358 ng

RT: 15.904 min Scan# 1616

Delta R.T. -0.013 min

Lab File: BN035731.D

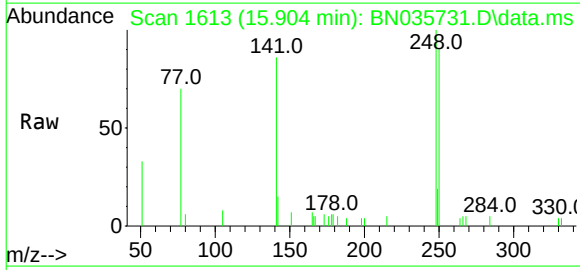
Acq: 20 Dec 2024 08:04

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4



Tgt Ion:248 Resp: 2216

Ion Ratio Lower Upper

248 100

250 90.4 80.6 120.8

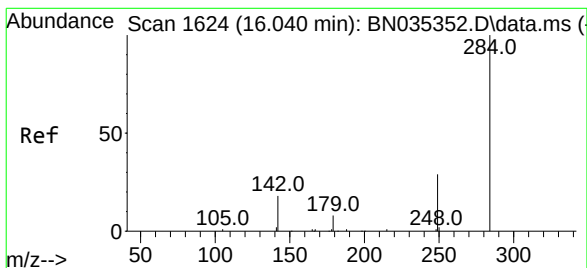
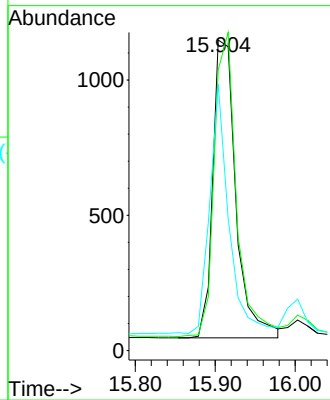
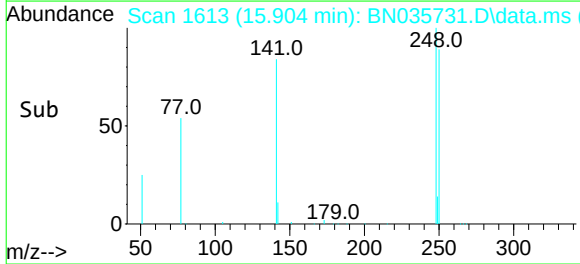
141 85.8 31.5 47.3#

Manual Integrations

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Reviewed By :Yogesh Patel 12/21/2024

Supervised By :mohammad ahmed 12/24/2024



#22

Hexachlorobenzene

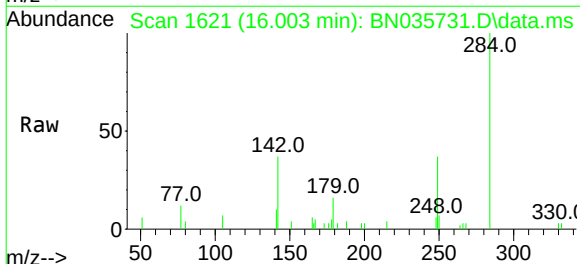
Concen: 0.438 ng

RT: 16.003 min Scan# 1621

Delta R.T. -0.013 min

Lab File: BN035731.D

Acq: 20 Dec 2024 08:04



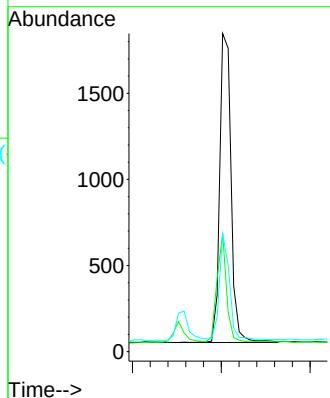
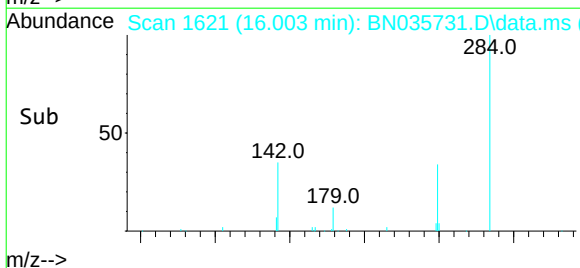
Tgt Ion:284 Resp: 3183

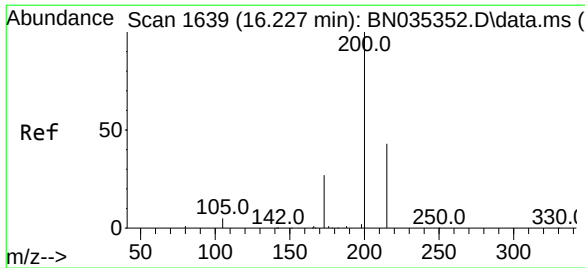
Ion Ratio Lower Upper

284 100

142 30.7 26.7 40.1

249 30.4 24.6 36.8





#23

Atrazine

Concen: 0.385 ng

RT: 16.202 min Scan# 1637

Delta R.T. -0.000 min

Lab File: BN035731.D

Acq: 20 Dec 2024 08:04

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

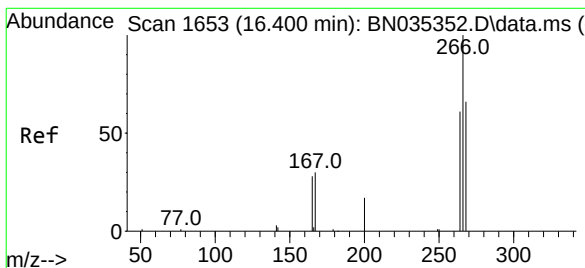
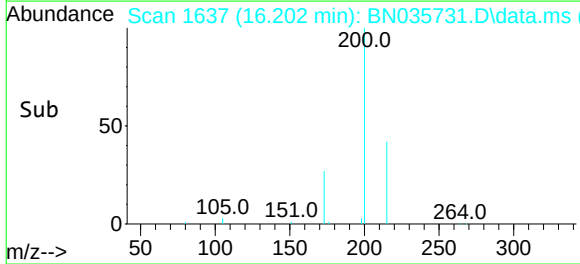
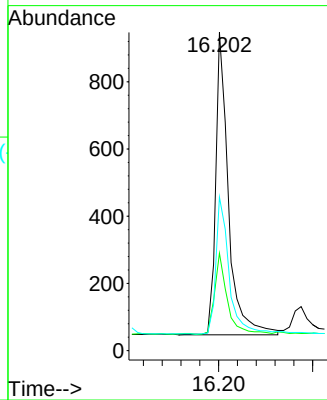
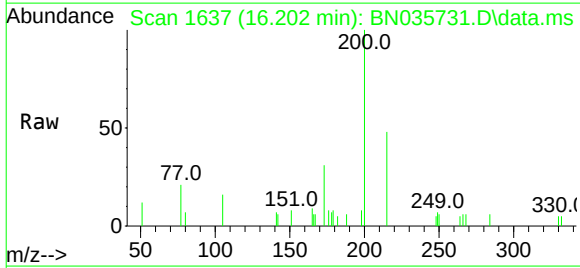
|     |       |       |       |      |
|-----|-------|-------|-------|------|
| Tgt | Ion:  | 200   | Resp: | 1696 |
| Ion | Ratio | Lower | Upper |      |
| 200 | 100   |       |       |      |
| 173 | 30.6  | 24.1  | 36.1  |      |
| 215 | 48.3  | 36.9  | 55.3  |      |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/21/2024

Supervised By :mohammad ahmed 12/24/2024



#24

Pentachlorophenol

Concen: 0.350 ng

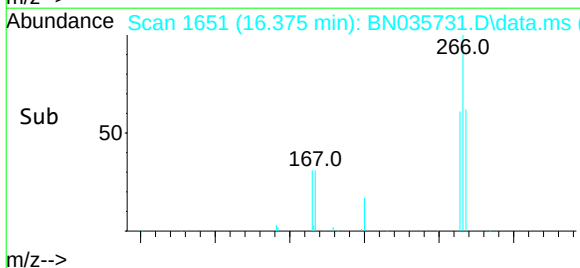
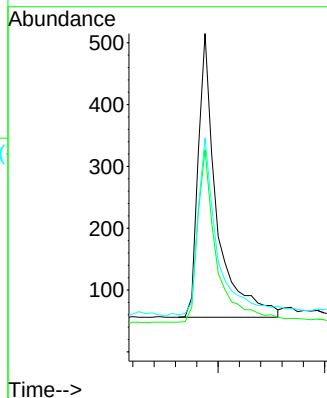
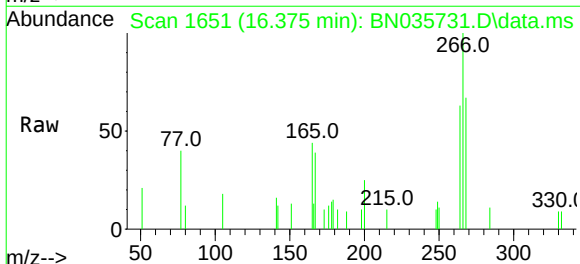
RT: 16.375 min Scan# 1651

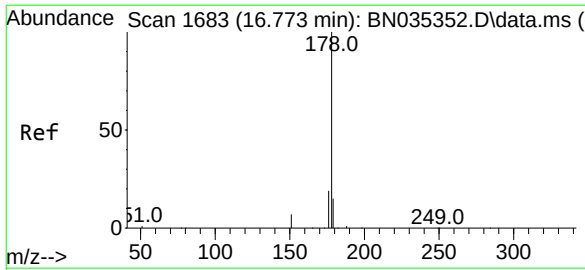
Delta R.T. -0.000 min

Lab File: BN035731.D

Acq: 20 Dec 2024 08:04

|     |       |       |       |      |
|-----|-------|-------|-------|------|
| Tgt | Ion:  | 266   | Resp: | 1107 |
| Ion | Ratio | Lower | Upper |      |
| 266 | 100   |       |       |      |
| 264 | 62.6  | 42.3  | 63.5  |      |
| 268 | 68.5  | 43.3  | 64.9  | #    |





#25

Phenanthrene

Concen: 0.351 ng

RT: 16.748 min Scan# 1681

Delta R.T. -0.000 min

Lab File: BN035731.D

Acq: 20 Dec 2024 08:04

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion:178 Resp: 10192

Ion Ratio Lower Upper

178 100

176 19.2 15.4 23.2

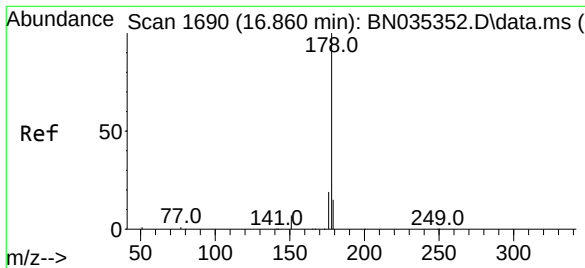
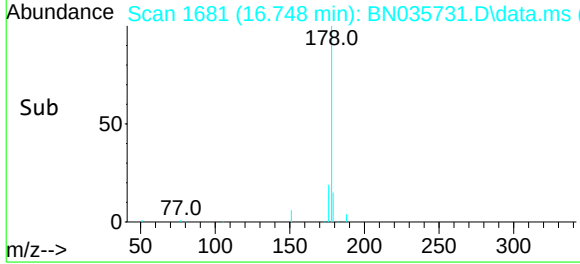
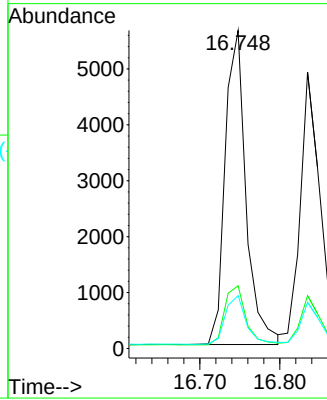
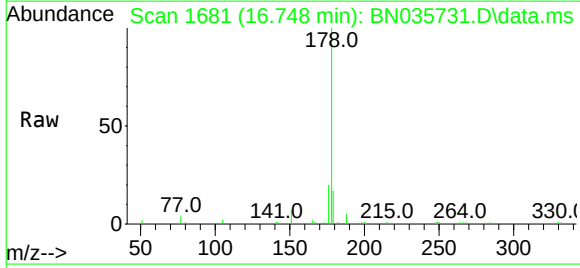
179 15.7 12.3 18.5

Manual Integrations

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Reviewed By :Yogesh Patel 12/21/2024

Supervised By :mohammad ahmed 12/24/2024



#26

Anthracene

Concen: 0.346 ng

RT: 16.835 min Scan# 1688

Delta R.T. -0.000 min

Lab File: BN035731.D

Acq: 20 Dec 2024 08:04

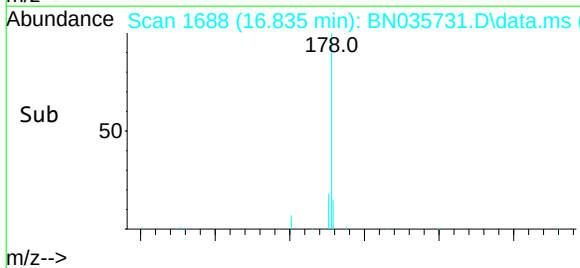
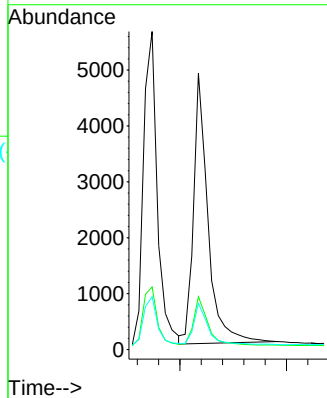
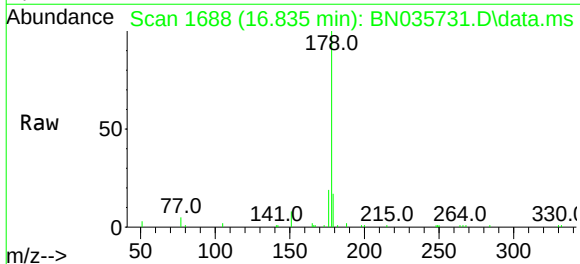
Tgt Ion:178 Resp: 9082

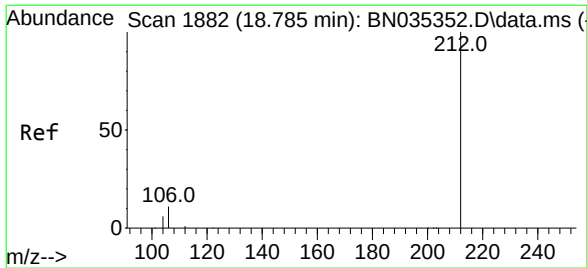
Ion Ratio Lower Upper

178 100

176 18.1 15.0 22.6

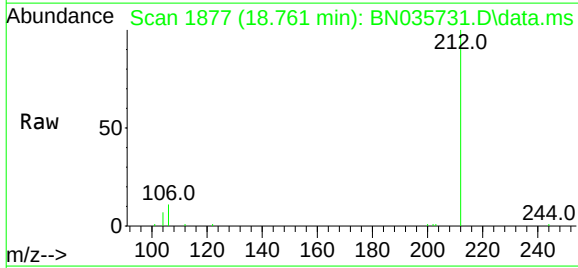
179 15.6 12.6 18.8





#27  
Fluoranthene-d10  
Concen: 0.347 ng  
RT: 18.761 min Scan# 1877  
Delta R.T. -0.000 min  
Lab File: BN035731.D  
Acq: 20 Dec 2024 08:04

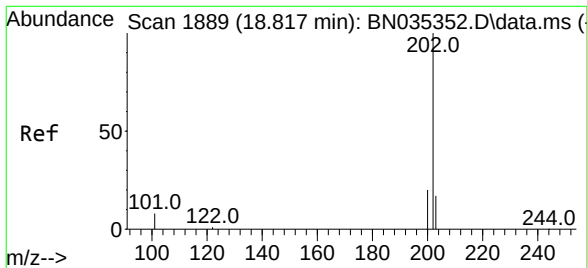
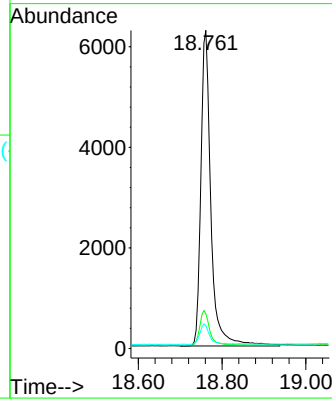
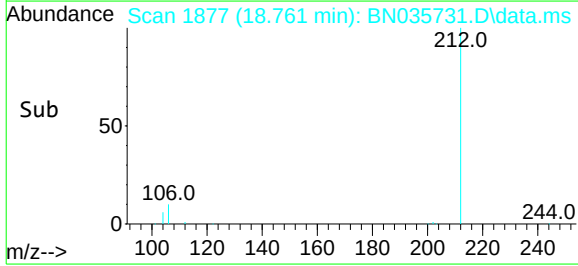
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4



Tgt Ion:212 Resp: 10416  
Ion Ratio Lower Upper  
212 100  
106 10.8 9.2 13.8  
104 6.3 5.3 7.9

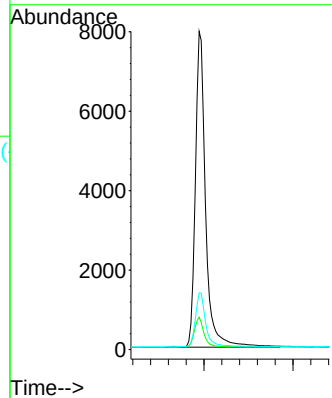
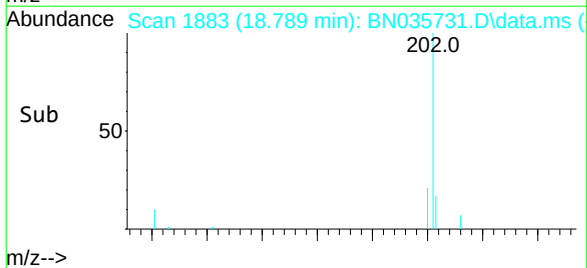
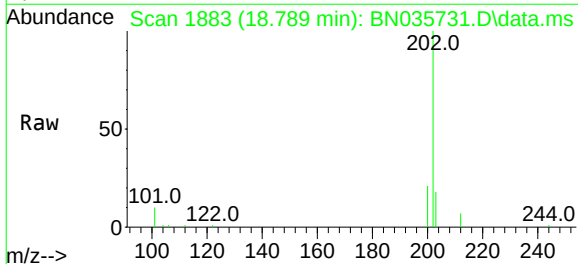
Manual Integrations  
APPROVED

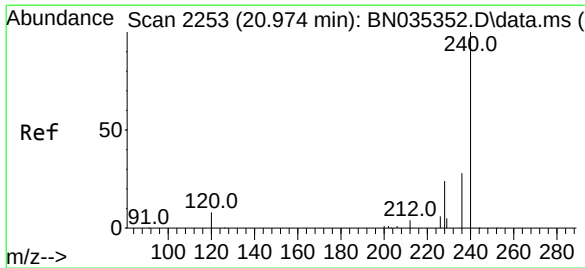
Reviewed By :Yogesh Patel 12/21/2024  
Supervised By :mohammad ahmed 12/24/2024



#28  
Fluoranthene  
Concen: 0.324 ng  
RT: 18.789 min Scan# 1883  
Delta R.T. -0.000 min  
Lab File: BN035731.D  
Acq: 20 Dec 2024 08:04

Tgt Ion:202 Resp: 12678  
Ion Ratio Lower Upper  
202 100  
101 9.4 7.4 11.0  
203 16.7 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.956 min Scan# 2251

Delta R.T. -0.000 min

Lab File: BN035731.D

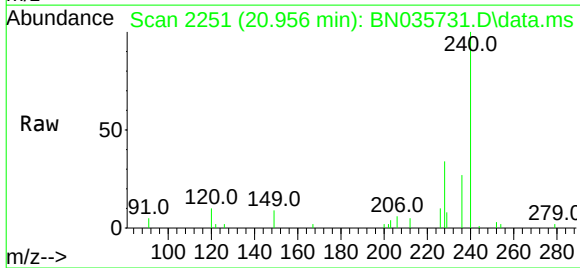
Acq: 20 Dec 2024 08:04

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4



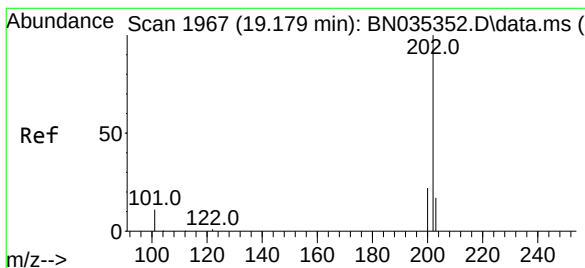
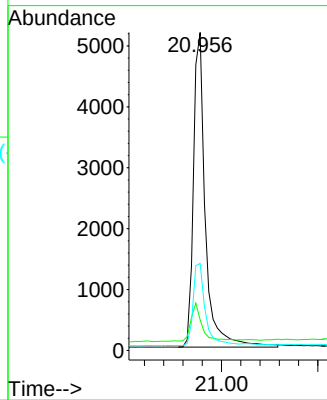
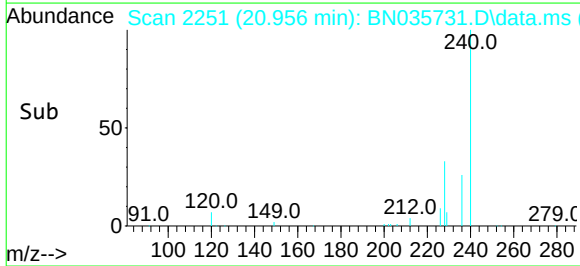
|     |       |       |       |      |
|-----|-------|-------|-------|------|
| Tgt | Ion:  | 240   | Resp: | 8878 |
| Ion | Ratio | Lower | Upper |      |
| 240 | 100   |       |       |      |
| 120 | 9.6   | 7.9   | 11.9  |      |
| 236 | 27.4  | 22.9  | 34.3  |      |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/21/2024

Supervised By :mohammad ahmed 12/24/2024



#30

Pyrene

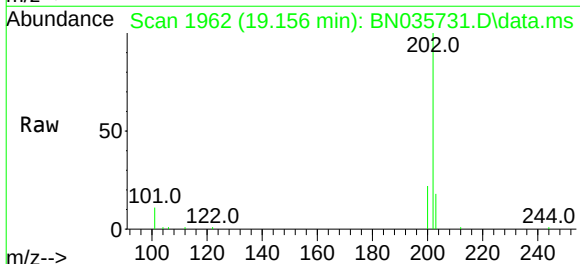
Concen: 0.399 ng

RT: 19.156 min Scan# 1962

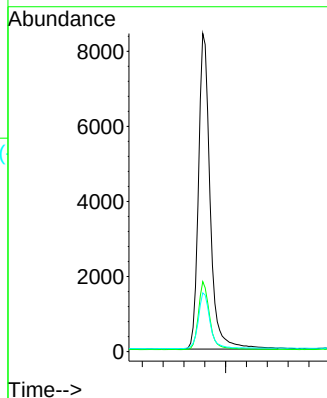
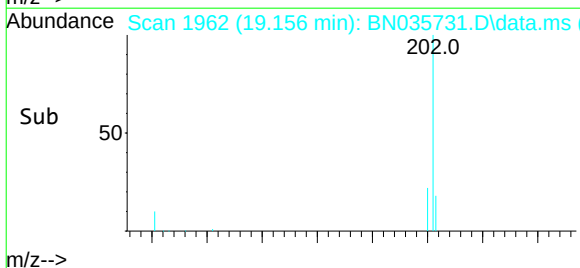
Delta R.T. -0.005 min

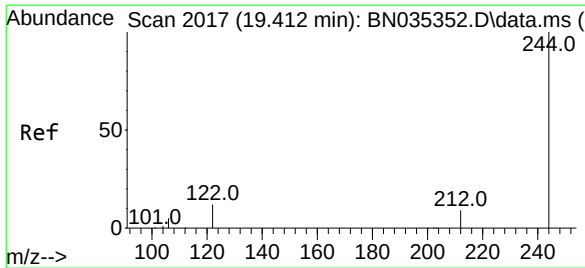
Lab File: BN035731.D

Acq: 20 Dec 2024 08:04



|     |       |       |       |       |
|-----|-------|-------|-------|-------|
| Tgt | Ion:  | 202   | Resp: | 13069 |
| Ion | Ratio | Lower | Upper |       |
| 202 | 100   |       |       |       |
| 200 | 21.0  | 17.0  | 25.4  |       |
| 203 | 17.8  | 14.3  | 21.5  |       |





#31

Terphenyl-d14

Concen: 0.426 ng

RT: 19.388 min Scan# 20

Delta R.T. -0.000 min

Lab File: BN035731.D

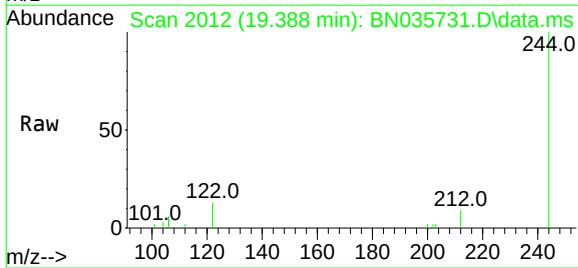
Acq: 20 Dec 2024 08:04

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4



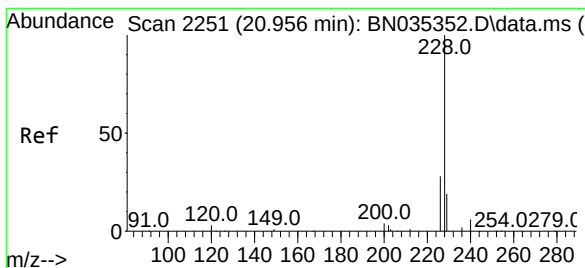
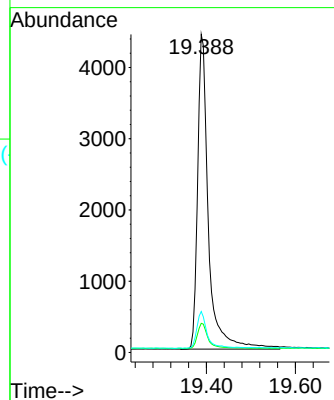
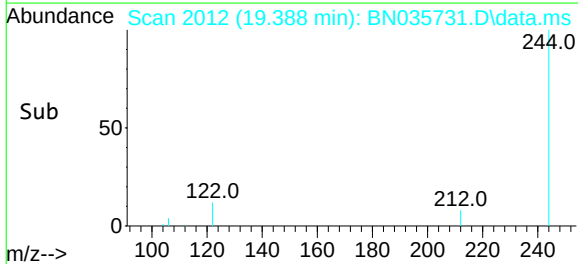
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 244   | Resp: | 7453  |
| Ion      | Ratio | Lower | Upper |
| 244      | 100   |       |       |
| 212      | 9.2   | 8.1   | 12.1  |
| 122      | 12.9  | 10.3  | 15.5  |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/21/2024

Supervised By :mohammad ahmed 12/24/2024



#32

Benzo(a)anthracene

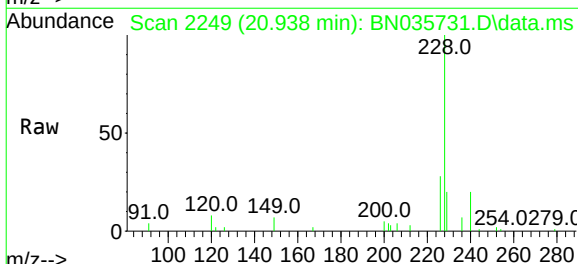
Concen: 0.339 ng

RT: 20.938 min Scan# 2249

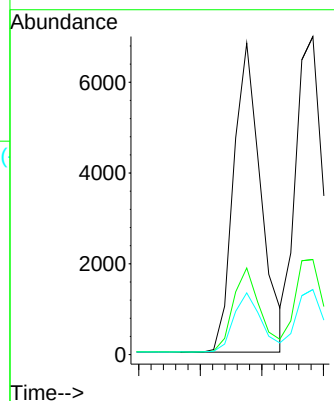
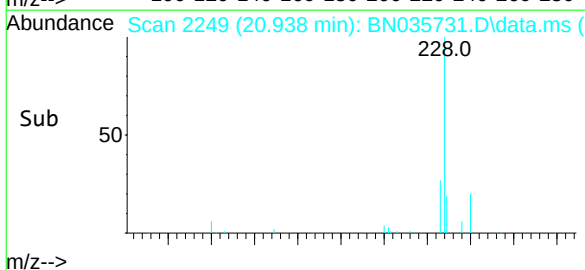
Delta R.T. -0.000 min

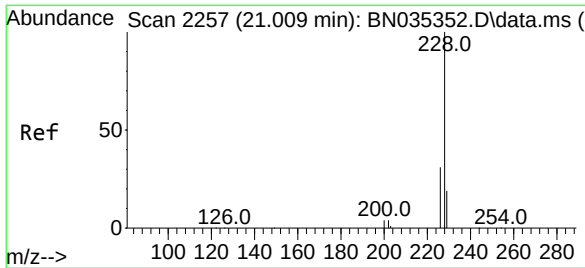
Lab File: BN035731.D

Acq: 20 Dec 2024 08:04



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 228   | Resp: | 10542 |
| Ion      | Ratio | Lower | Upper |
| 228      | 100   |       |       |
| 226      | 27.8  | 22.5  | 33.7  |
| 229      | 19.8  | 15.8  | 23.8  |





#33

Chrysene

Concen: 0.389 ng

RT: 20.991 min Scan# 2255

Delta R.T. -0.000 min

Lab File: BN035731.D

Acq: 20 Dec 2024 08:04

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion:228 Resp: 12448

Ion Ratio Lower Upper

228 100

226 29.9 24.6 37.0

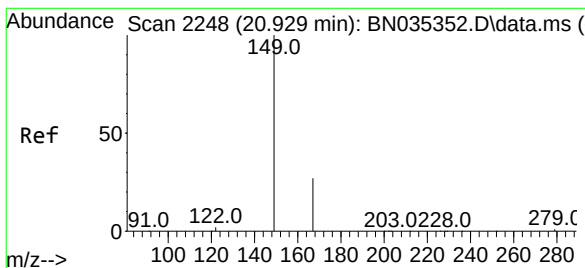
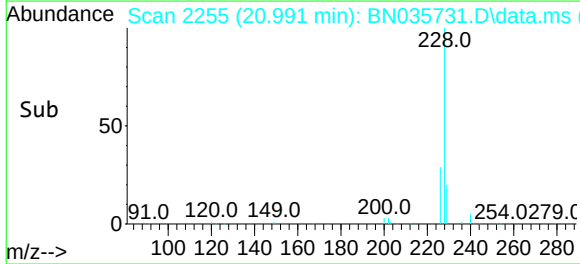
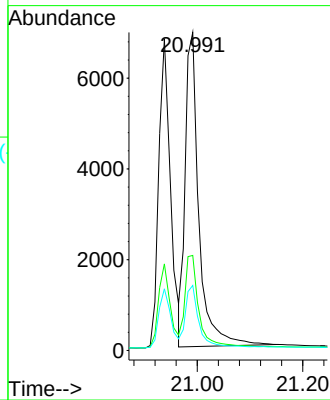
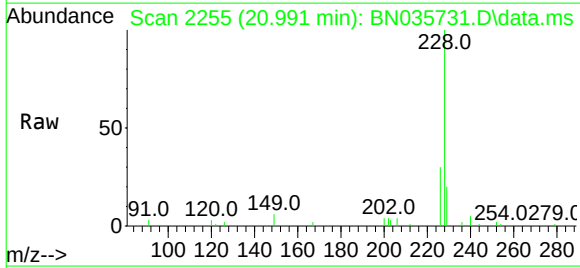
229 20.4 15.9 23.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/21/2024

Supervised By :mohammad ahmed 12/24/2024



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.430 ng

RT: 20.902 min Scan# 2245

Delta R.T. -0.009 min

Lab File: BN035731.D

Acq: 20 Dec 2024 08:04

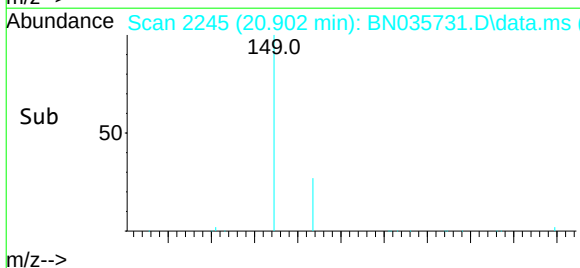
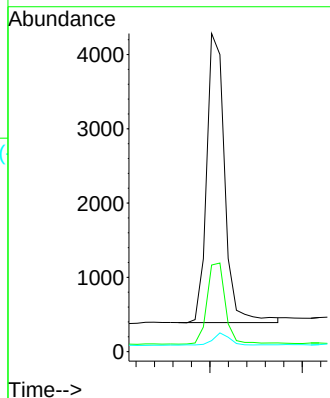
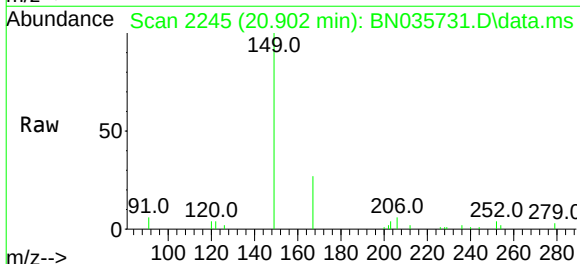
Tgt Ion:149 Resp: 5271

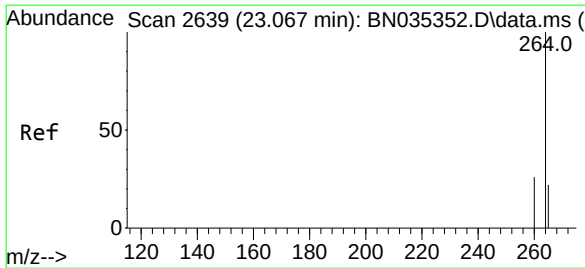
Ion Ratio Lower Upper

149 100

167 28.6 22.2 33.4

279 3.9 2.7 4.1





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.038 min Scan# 2639

Delta R.T. -0.003 min

Lab File: BN035731.D

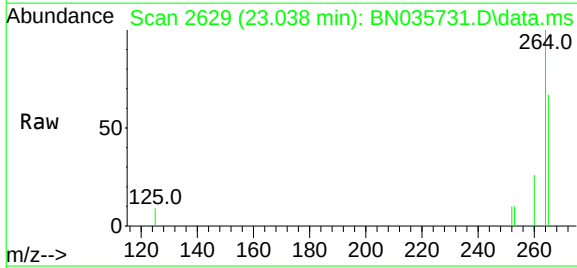
Acq: 20 Dec 2024 08:04

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4



Tgt Ion: 264 Resp: 9229

Ion Ratio Lower Upper

264 100

260 26.2 21.4 32.2

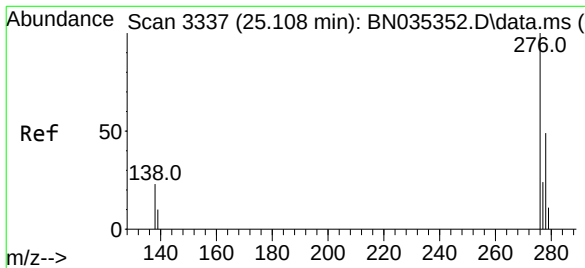
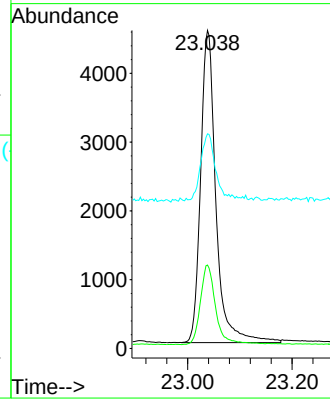
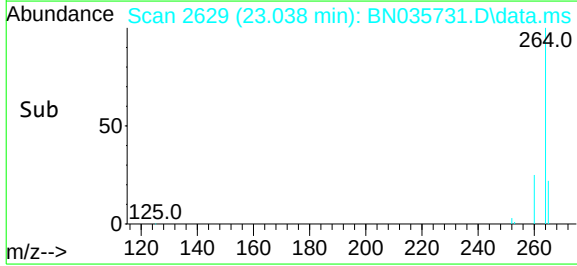
265 67.5 40.2 60.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/21/2024

Supervised By :mohammad ahmed 12/24/2024



#36

Indeno(1,2,3-cd)pyrene

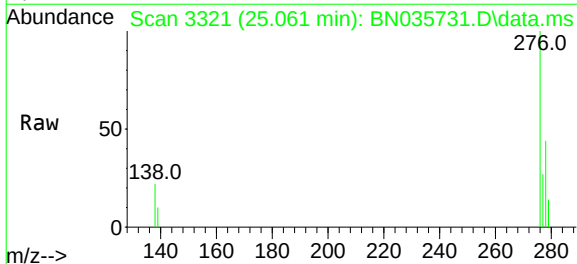
Concen: 0.376 ng

RT: 25.061 min Scan# 3321

Delta R.T. -0.006 min

Lab File: BN035731.D

Acq: 20 Dec 2024 08:04



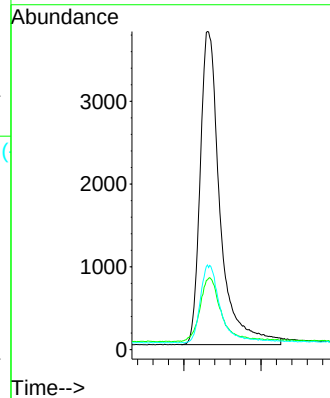
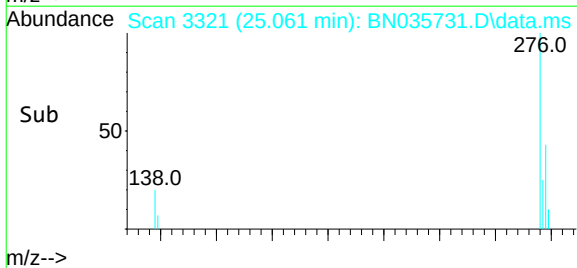
Tgt Ion: 276 Resp: 13578

Ion Ratio Lower Upper

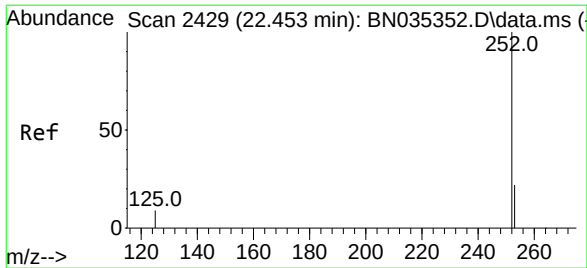
276 100

138 21.2 19.4 29.0

277 24.0 19.8 29.6







#37

Benzo(b)fluoranthene

Concen: 0.438 ng

RT: 22.427 min Scan# 2429

Delta R.T. -0.003 min

Lab File: BN035731.D

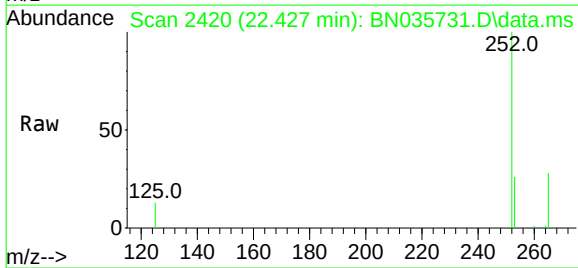
Acq: 20 Dec 2024 08:04

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4



Tgt Ion:252 Resp: 14777

Ion Ratio Lower Upper

252 100

253 25.9 19.6 29.4

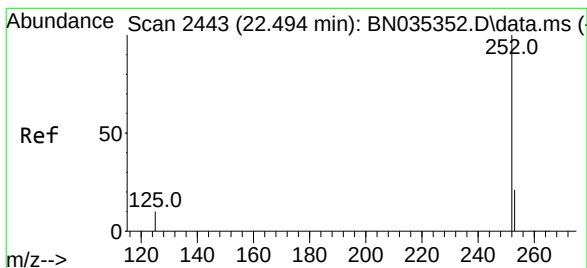
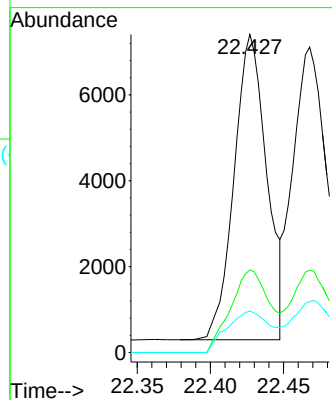
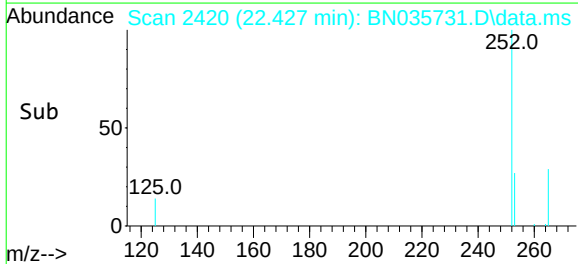
125 13.1 9.6 14.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/21/2024

Supervised By :mohammad ahmed 12/24/2024



#38

Benzo(k)fluoranthene

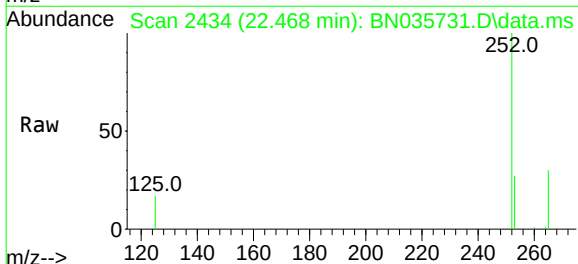
Concen: 0.370 ng m

RT: 22.468 min Scan# 2434

Delta R.T. -0.003 min

Lab File: BN035731.D

Acq: 20 Dec 2024 08:04



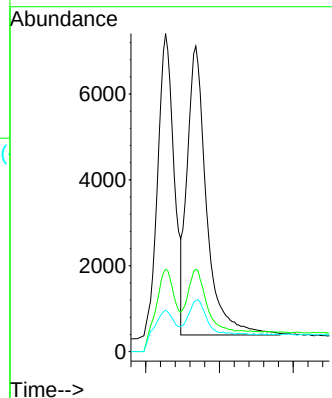
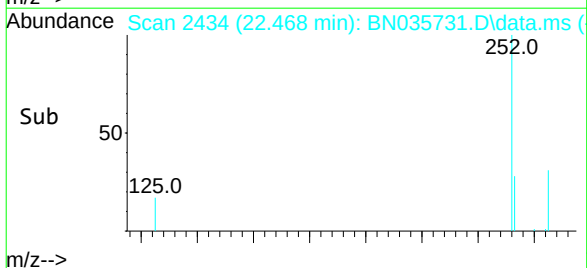
Tgt Ion:252 Resp: 12300

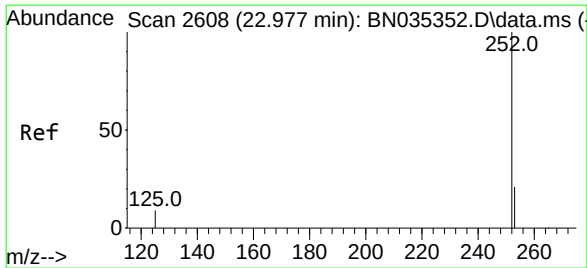
Ion Ratio Lower Upper

252 100

253 26.9 19.5 29.3

125 16.7 10.2 15.4#





#39

Benzo(a)pyrene

Concen: 0.365 ng

RT: 22.947 min Scan# 25

Delta R.T. -0.003 min

Lab File: BN035731.D

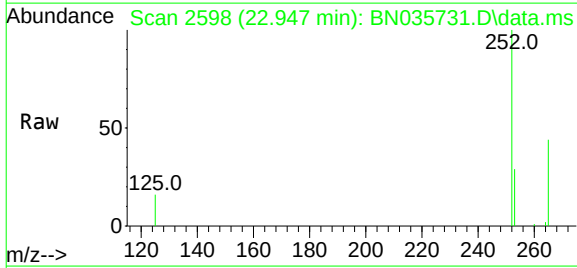
Acq: 20 Dec 2024 08:04

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4



Tgt Ion:252 Resp: 10146

Ion Ratio Lower Upper

252 100

253 29.2 20.2 30.4

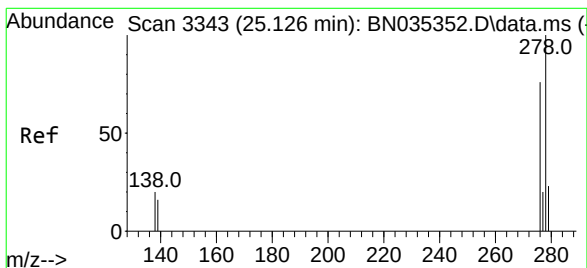
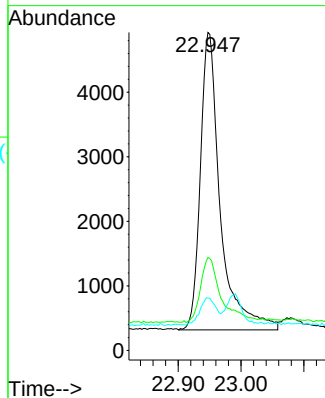
125 16.5 10.9 16.3#

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/21/2024

Supervised By :mohammad ahmed 12/24/2024



#40

Dibenzo(a,h)anthracene

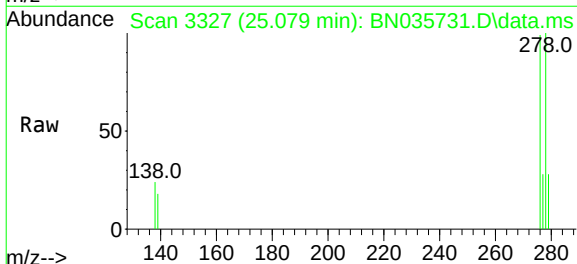
Concen: 0.370 ng

RT: 25.079 min Scan# 3327

Delta R.T. -0.003 min

Lab File: BN035731.D

Acq: 20 Dec 2024 08:04



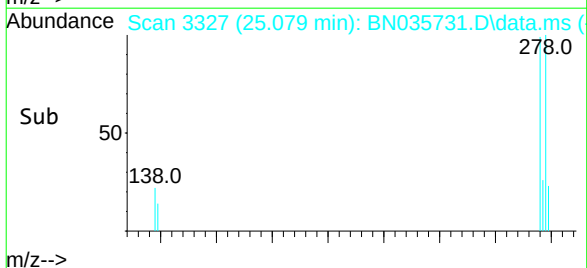
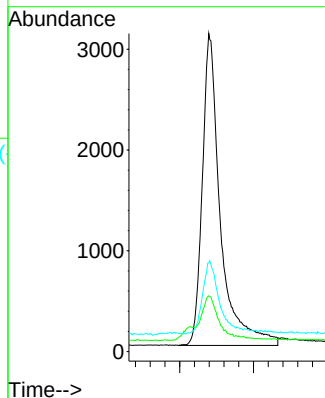
Tgt Ion:278 Resp: 10523

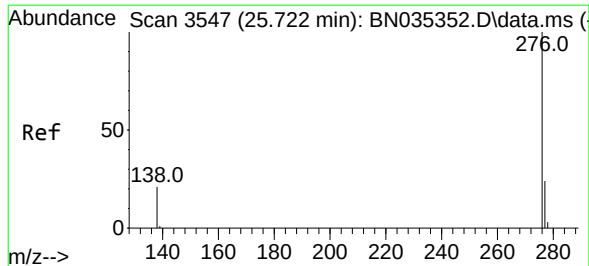
Ion Ratio Lower Upper

278 100

139 17.5 14.2 21.4

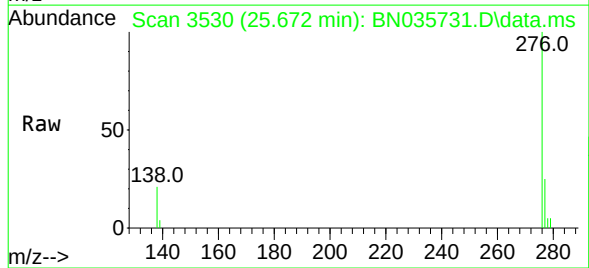
279 27.9 20.5 30.7





Benzo(g,h,i)perylene  
Concen: 0.400 ng  
RT: 25.672 min Scan# 3547  
Delta R.T. -0.006 min  
Lab File: BN035731.D  
Acq: 20 Dec 2024 08:04

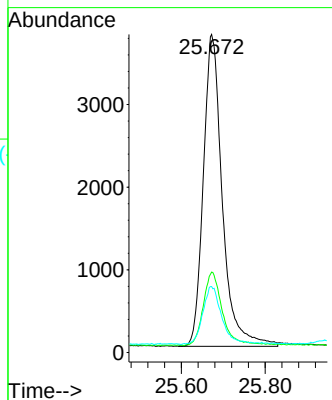
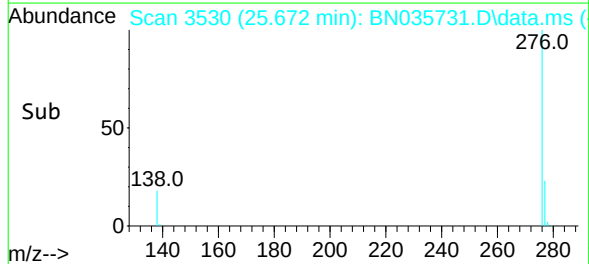
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 25.3  | 19.9  | 29.9  |
| 138     | 20.7  | 17.8  | 26.8  |

Manual Integrations  
**APPROVED**

Reviewed By :Yogesh Patel 12/21/2024  
Supervised By :mohammad ahmed 12/24/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN121924\  
 Data File : BN035731.D  
 Acq On : 20 Dec 2024 08:04  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 LabSampleId :  
 SSTDCCC0.4

Quant Time: Dec 20 08:27:53 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Dec 19 23:06:19 2024  
 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   | 158#  | 0.00     |
| 2       | 1,4-Dioxane                | 0.382 | 0.405 | -6.0  | 170#  | 0.00     |
| 3       | n-Nitrosodimethylamine     | 0.319 | 0.330 | -3.4  | 160#  | 0.00     |
| 4 S     | 2-Fluorophenol             | 1.001 | 0.990 | 1.1   | 154#  | 0.00     |
| 5 S     | Phenol-d6                  | 1.204 | 1.140 | 5.3   | 151#  | 0.00     |
| 6       | bis(2-Chloroethyl)ether    | 1.012 | 0.922 | 8.9   | 147   | 0.00     |
| 7 I     | Naphthalene-d8             | 1.000 | 1.000 | 0.0   | 161#  | 0.00     |
| 8 S     | Nitrobenzene-d5            | 0.244 | 0.284 | -16.4 | 195#  | 0.00     |
| 9       | Naphthalene                | 1.055 | 0.988 | 6.4   | 152#  | 0.00     |
| 10      | Hexachlorobutadiene        | 0.243 | 0.260 | -7.0  | 170#  | -0.01    |
| 11 SURR | 2-Methylnaphthalene-d10    | 0.626 | 0.562 | 10.2  | 146   | 0.00     |
| 12      | 2-Methylnaphthalene        | 0.755 | 0.627 | 17.0  | 137   | 0.00     |
| 13 I    | Acenaphthene-d10           | 1.000 | 1.000 | 0.0   | 141   | -0.01    |
| 14 S    | 2,4,6-Tribromophenol       | 0.284 | 0.221 | 22.2  | 121   | 0.00     |
| 15 S    | 2-Fluorobiphenyl           | 1.512 | 1.376 | 9.0   | 128   | 0.00     |
| 16      | Acenaphthylene             | 1.680 | 1.485 | 11.6  | 131   | 0.00     |
| 17      | Acenaphthene               | 1.115 | 1.001 | 10.2  | 130   | -0.01    |
| 18      | Fluorene                   | 1.596 | 1.311 | 17.9  | 119   | -0.01    |
| 19 I    | Phenanthrene-d10           | 1.000 | 1.000 | 0.0   | 111   | 0.00     |
| 20      | 4,6-Dinitro-2-methylphenol | 0.039 | 0.008 | 79.5# | 25#   | 0.00     |
| 21      | 4-Bromophenyl-phenylether  | 0.234 | 0.210 | 10.3  | 103   | -0.01    |
| 22      | Hexachlorobenzene          | 0.275 | 0.301 | -9.5  | 123   | -0.01    |
| 23      | Atrazine                   | 0.167 | 0.160 | 4.2   | 116   | 0.00     |
| 24      | Pentachlorophenol          | 0.120 | 0.105 | 12.5  | 122   | 0.00     |
| 25      | Phenanthrene               | 1.099 | 0.964 | 12.3  | 101   | 0.00     |
| 26      | Anthracene                 | 0.994 | 0.859 | 13.6  | 102   | 0.00     |
| 27 SURR | Fluoranthene-d10           | 1.134 | 0.985 | 13.1  | 102   | 0.00     |
| 28      | Fluoranthene               | 1.481 | 1.199 | 19.0  | 94    | 0.00     |
| 29 I    | Chrysene-d12               | 1.000 | 1.000 | 0.0   | 93    | 0.00     |
| 30      | Pyrene                     | 1.477 | 1.472 | 0.3   | 93    | 0.00     |
| 31 S    | Terphenyl-d14              | 0.789 | 0.839 | -6.3  | 99    | 0.00     |
| 32      | Benzo(a)anthracene         | 1.399 | 1.187 | 15.2  | 82    | 0.00     |
| 33      | Chrysene                   | 1.443 | 1.402 | 2.8   | 91    | 0.00     |
| 34      | Bis(2-ethylhexyl)phthalate | 0.553 | 0.594 | -7.4  | 107   | 0.00     |
| 35 I    | Perylene-d12               | 1.000 | 1.000 | 0.0   | 85    | 0.00     |
| 36      | Indeno(1,2,3-cd)pyrene     | 1.564 | 1.471 | 5.9   | 82    | 0.00     |
| 37      | Benzo(b)fluoranthene       | 1.463 | 1.601 | -9.4  | 104   | 0.00     |
| 38      | Benzo(k)fluoranthene       | 1.440 | 1.333 | 7.4   | 81    | 0.00     |
| 39 C    | Benzo(a)pyrene             | 1.205 | 1.099 | 8.8   | 82    | 0.00     |
| 40      | Dibenzo(a,h)anthracene     | 1.234 | 1.140 | 7.6   | 81    | 0.00     |
| 41      | Benzo(g,h,i)perylene       | 1.289 | 1.290 | -0.1  | 88    | 0.00     |

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN121924\  
 Data File : BN035731.D  
 Acq On : 20 Dec 2024 08:04  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 LabSampleId :  
 SSTDCCC0.4

Quant Time: Dec 20 08:27:53 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Dec 19 23:06:19 2024  
 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   | 158   | 0.00     |
| 2       | 1,4-Dioxane                | 0.400  | 0.424 | -6.0  | 170   | 0.00     |
| 3       | n-Nitrosodimethylamine     | 0.400  | 0.415 | -3.7  | 160   | 0.00     |
| 4 S     | 2-Fluorophenol             | 0.400  | 0.396 | 1.0   | 154   | 0.00     |
| 5 S     | Phenol-d6                  | 0.400  | 0.379 | 5.3   | 151   | 0.00     |
| 6       | bis(2-Chloroethyl)ether    | 0.400  | 0.365 | 8.8   | 147   | 0.00     |
| 7 I     | Naphthalene-d8             | 0.400  | 0.400 | 0.0   | 161   | 0.00     |
| 8 S     | Nitrobenzene-d5            | 0.400  | 0.466 | -16.5 | 195   | 0.00     |
| 9       | Naphthalene                | 0.400  | 0.375 | 6.3   | 152   | 0.00     |
| 10      | Hexachlorobutadiene        | 0.400  | 0.428 | -7.0  | 170   | -0.01    |
| 11 SURR | 2-Methylnaphthalene-d10    | 0.400  | 0.359 | 10.3  | 146   | 0.00     |
| 12      | 2-Methylnaphthalene        | 0.400  | 0.332 | 17.0  | 137   | 0.00     |
| 13 I    | Acenaphthene-d10           | 0.400  | 0.400 | 0.0   | 141   | -0.01    |
| 14 S    | 2,4,6-Tribromophenol       | 0.400  | 0.311 | 22.3  | 121   | 0.00     |
| 15 S    | 2-Fluorobiphenyl           | 0.400  | 0.364 | 9.0   | 128   | 0.00     |
| 16      | Acenaphthylene             | 0.400  | 0.354 | 11.5  | 131   | 0.00     |
| 17      | Acenaphthene               | 0.400  | 0.359 | 10.3  | 130   | -0.01    |
| 18      | Fluorene                   | 0.400  | 0.329 | 17.8  | 119   | -0.01    |
| 19 I    | Phenanthrene-d10           | 0.400  | 0.400 | 0.0   | 111   | 0.00     |
| 20      | 4,6-Dinitro-2-methylphenol | 0.400  | 0.080 | 80.0# | 25    | 0.00     |
| 21      | 4-Bromophenyl-phenylether  | 0.400  | 0.358 | 10.5  | 103   | -0.01    |
| 22      | Hexachlorobenzene          | 0.400  | 0.438 | -9.5  | 123   | -0.01    |
| 23      | Atrazine                   | 0.400  | 0.385 | 3.8   | 116   | 0.00     |
| 24      | Pentachlorophenol          | 0.400  | 0.350 | 12.5  | 122   | 0.00     |
| 25      | Phenanthrene               | 0.400  | 0.351 | 12.3  | 101   | 0.00     |
| 26      | Anthracene                 | 0.400  | 0.346 | 13.5  | 102   | 0.00     |
| 27 SURR | Fluoranthene-d10           | 0.400  | 0.347 | 13.3  | 102   | 0.00     |
| 28      | Fluoranthene               | 0.400  | 0.324 | 19.0  | 94    | 0.00     |
| 29 I    | Chrysene-d12               | 0.400  | 0.400 | 0.0   | 93    | 0.00     |
| 30      | Pyrene                     | 0.400  | 0.399 | 0.3   | 93    | 0.00     |
| 31 S    | Terphenyl-d14              | 0.400  | 0.426 | -6.5  | 99    | 0.00     |
| 32      | Benzo(a)anthracene         | 0.400  | 0.339 | 15.3  | 82    | 0.00     |
| 33      | Chrysene                   | 0.400  | 0.389 | 2.8   | 91    | 0.00     |
| 34      | Bis(2-ethylhexyl)phthalate | 0.400  | 0.430 | -7.5  | 107   | 0.00     |
| 35 I    | Perylene-d12               | 0.400  | 0.400 | 0.0   | 85    | 0.00     |
| 36      | Indeno(1,2,3-cd)pyrene     | 0.400  | 0.376 | 6.0   | 82    | 0.00     |
| 37      | Benzo(b)fluoranthene       | 0.400  | 0.438 | -9.5  | 104   | 0.00     |
| 38      | Benzo(k)fluoranthene       | 0.400  | 0.370 | 7.5   | 81    | 0.00     |
| 39 C    | Benzo(a)pyrene             | 0.400  | 0.365 | 8.8   | 82    | 0.00     |
| 40      | Dibenzo(a,h)anthracene     | 0.400  | 0.370 | 7.5   | 81    | 0.00     |
| 41      | Benzo(g,h,i)perylene       | 0.400  | 0.400 | 0.0   | 88    | 0.00     |

(#) = Out of Range

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



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

7C

## SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P5284 SAS No.: P5284 SDG No.: P5284

Instrument ID: BNA\_N Calibration Date/Time: 12/20/2024 18:18

Lab File ID: BN035747.D Init. Calib. Date(s): 11/27/2024 11/27/2024

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 15:34 19:09

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

| COMPOUND                | RRF   | RRF0.4 | MIN<br>RRF | %D    | MAX%D |
|-------------------------|-------|--------|------------|-------|-------|
| 2-Methylnaphthalene-d10 | 0.626 | 0.618  |            | -1.3  | 50.0  |
| Fluoranthene-d10        | 1.134 | 1.034  |            | -8.8  | 50.0  |
| 2-Fluorophenol          | 1.001 | 0.002  |            | -99.8 | 50.0  |
| Phenol-d6               | 1.204 | 0.025  |            | -97.9 | 50.0  |
| Nitrobenzene-d5         | 0.244 | 0.005  |            | -98.0 | 50.0  |
| 2-Fluorobiphenyl        | 1.512 | 0.002  |            | -99.9 | 50.0  |
| 2,4,6-Tribromophenol    | 0.284 | 0.001  |            | -99.6 | 50.0  |
| Terphenyl-d14           | 0.789 | 0.003  |            | -99.6 | 50.0  |
| 1,4-Dioxane             | 0.382 | 0.448  |            | 17.3  | 50.0  |

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN121924\  
 Data File : BN035747.D  
 Acq On : 20 Dec 2024 18:18  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 38 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4EC

Manual Integrations  
 APPROVED

Reviewed By :Jagrut Upadhyay 12/23/2024  
 Supervised By :mohammad ahmed 12/24/2024

Quant Time: Dec 21 01:42:41 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Dec 19 23:06:19 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.272  | 152  | 4145     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.009 | 136  | 11402    | 0.400 | ng    | -0.01    |
| 13) Acenaphthene-d10          | 13.924 | 164  | 7019     | 0.400 | ng    | -0.01    |
| 19) Phenanthrene-d10          | 16.698 | 188  | 13951    | 0.400 | ng    | # 0.00   |
| 29) Chrysene-d12              | 20.956 | 240  | 11878    | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.038 | 264  | 12200    | 0.400 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 4.924  | 112  | 10       | 0.001 | ng    | -0.01    |
| 5) Phenol-d6                  | 6.484  | 99   | 102      | 0.008 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.408  | 82   | 53m      | 0.008 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.616 | 152  | 7049     | 0.395 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.443 | 330  | 9        | 0.002 | ng    | -0.01    |
| 15) 2-Fluorobiphenyl          | 12.544 | 172  | 12       | 0.000 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 18.757 | 212  | 14421    | 0.365 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.393 | 244  | 35       | 0.001 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
|                               |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 2.982  | 88   | 1859     | 0.469 | ng    | 99       |
| 3) n-Nitrosodimethylamine     | 3.234  | 42   | 56       | 0.017 | ng    | # 1      |
| 6) bis(2-Chloroethyl)ether    | 6.723  | 93   | 4332     | 0.413 | ng    | 98       |
| 9) Naphthalene                | 10.063 | 128  | 12423    | 0.413 | ng    | 99       |
| 10) Hexachlorobutadiene       | 10.351 | 225  | 3142     | 0.453 | ng    | # 99     |
| 12) 2-Methylnaphthalene       | 11.692 | 142  | 8345     | 0.388 | ng    | 99       |
| 16) Acenaphthylene            | 13.636 | 152  | 11936    | 0.405 | ng    | 100      |
| 17) Acenaphthene              | 13.989 | 154  | 8162     | 0.417 | ng    | 98       |
| 18) Fluorene                  | 14.993 | 166  | 10307    | 0.368 | ng    | 99       |
| 20) 4,6-Dinitro-2-methylph... | 15.122 | 198  | 168      | 0.122 | ng    | # 3      |
| 21) 4-Bromophenyl-phenylether | 15.904 | 248  | 3188     | 0.391 | ng    | # 83     |
| 22) Hexachlorobenzene         | 16.003 | 284  | 4408     | 0.460 | ng    | 97       |
| 23) Atrazine                  | 16.202 | 200  | 27       | 0.005 | ng    | # 1      |
| 24) Pentachlorophenol         | 16.376 | 266  | 1329     | 0.319 | ng    | 86       |
| 25) Phenanthrene              | 16.735 | 178  | 15452    | 0.403 | ng    | 100      |
| 26) Anthracene                | 16.835 | 178  | 14156    | 0.408 | ng    | 99       |
| 28) Fluoranthene              | 18.789 | 202  | 18255    | 0.353 | ng    | 100      |
| 30) Pyrene                    | 19.156 | 202  | 19874    | 0.453 | ng    | 100      |
| 32) Benzo(a)anthracene        | 20.938 | 228  | 16354    | 0.394 | ng    | 99       |
| 33) Chrysene                  | 20.991 | 228  | 18340    | 0.428 | ng    | 98       |
| 34) Bis(2-ethylhexyl)phtha... | 20.911 | 149  | 7490     | 0.456 | ng    | 98       |
| 36) Indeno(1,2,3-cd)pyrene    | 25.061 | 276  | 21102    | 0.442 | ng    | 99       |
| 37) Benzo(b)fluoranthene      | 22.427 | 252  | 21982    | 0.493 | ng    | 99       |
| 38) Benzo(k)fluoranthene      | 22.468 | 252  | 19139m   | 0.436 | ng    |          |
| 39) Benzo(a)pyrene            | 22.947 | 252  | 15636    | 0.425 | ng    | 98       |
| 40) Dibenzo(a,h)anthracene    | 25.082 | 278  | 15847    | 0.421 | ng    | 98       |
| 41) Benzo(g,h,i)perylene      | 25.675 | 276  | 16995    | 0.432 | ng    | 98       |
| -----                         |        |      |          |       |       |          |

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

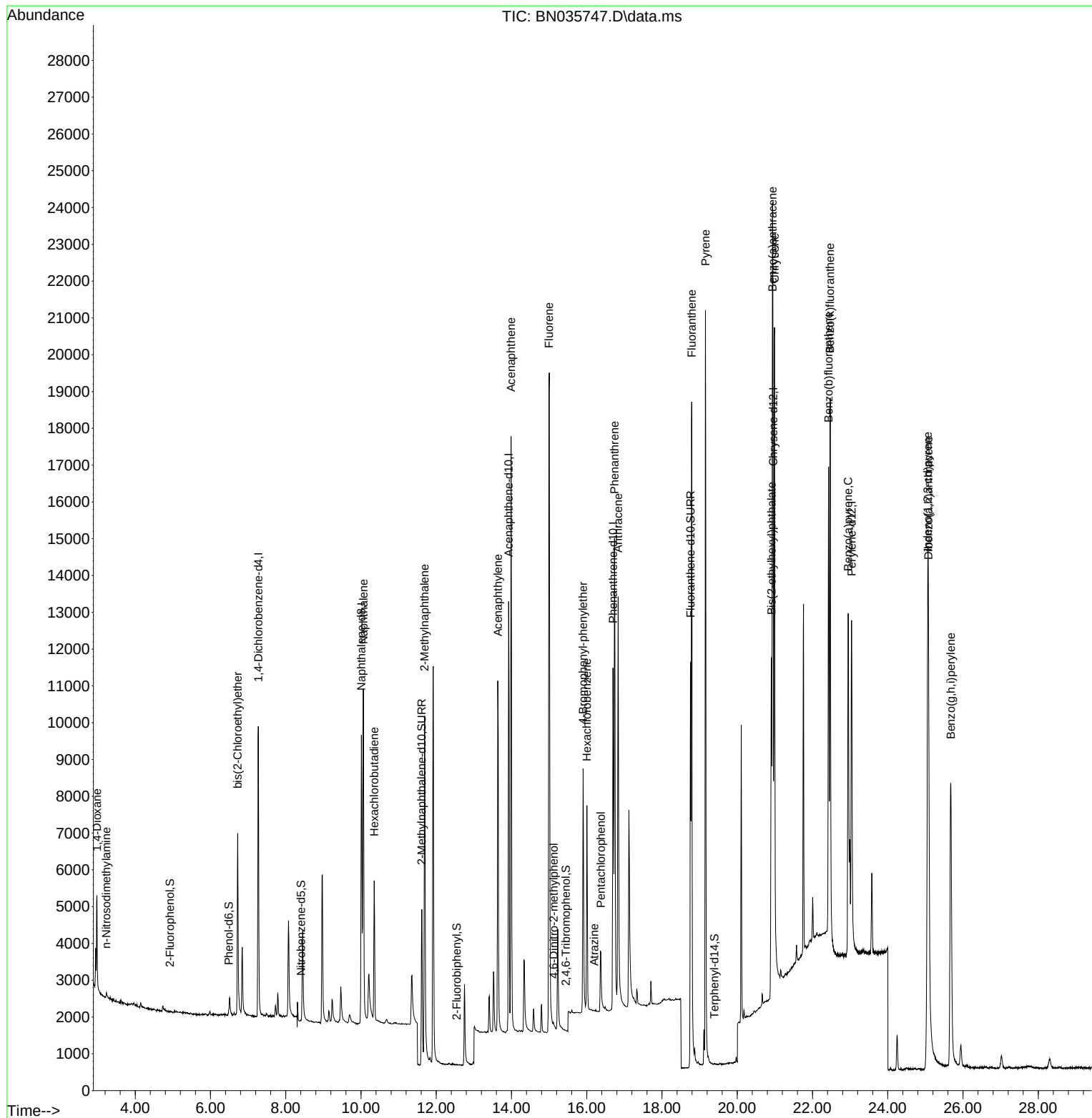
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 Data File : BN035747.D  
 Acq On : 20 Dec 2024 18:18  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 38 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4EC

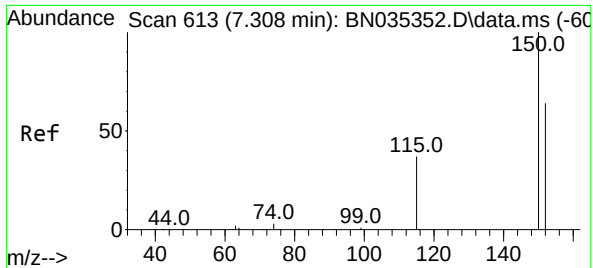
### Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 12/23/2024  
 Supervised By :mohammad ahmed 12/24/2024

Quant Time: Dec 21 01:42:41 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Dec 19 23:06:19 2024  
 Response via : Initial Calibration







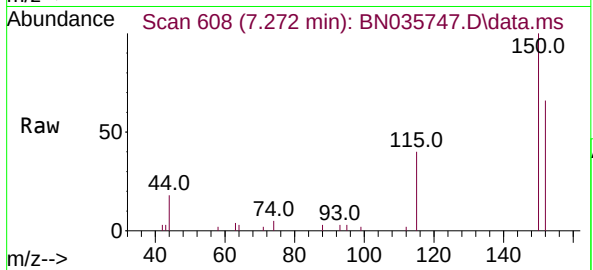
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1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.272 min Scan# 60  
Delta R.T. -0.000 min  
Lab File: BN035747.D  
Acq: 20 Dec 2024 18:18

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC

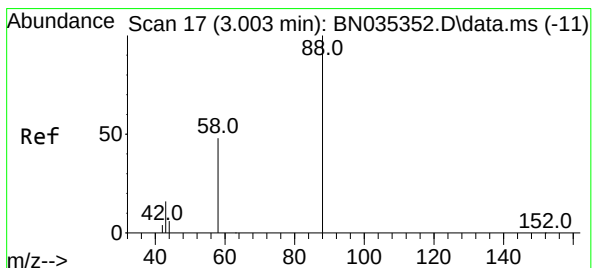
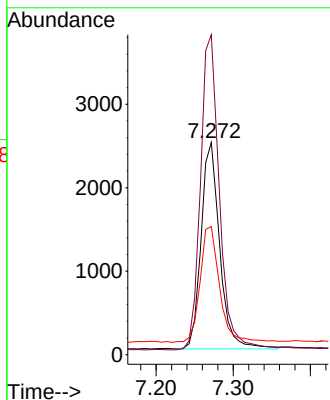
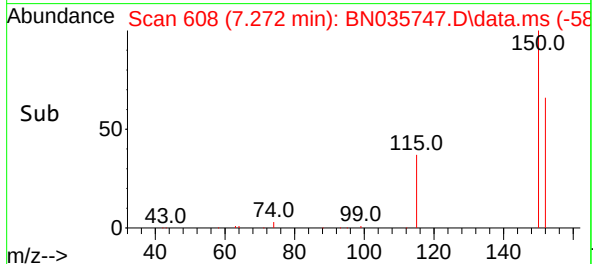


Tgt Ion: 152 Resp: 414  
Ion Ratio Lower Upper  
152 100  
150 150.8 124.0 186.0  
115 60.4 49.6 74.4

Manual Integrations

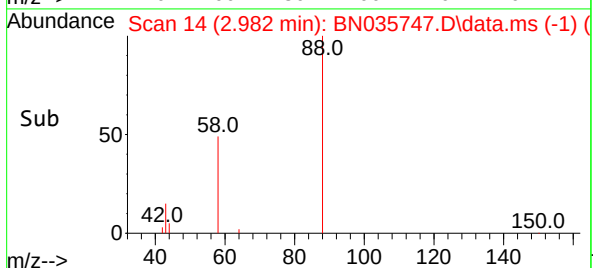
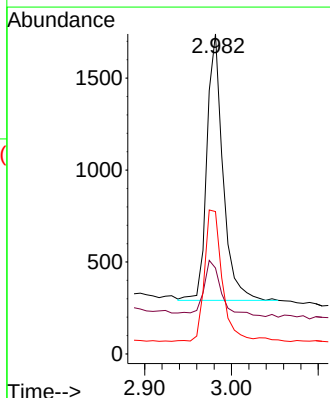
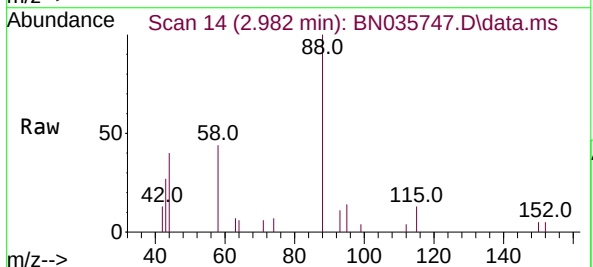
APPROVED

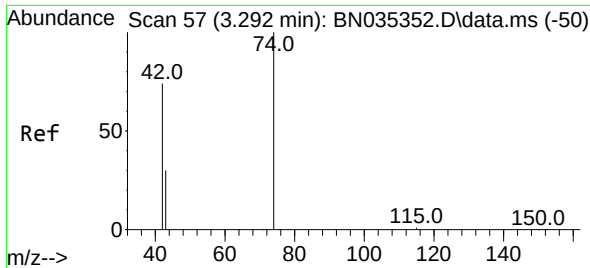
Reviewed By :Jagrut Upadhyay 12/23/2024  
Supervised By :mohammad ahmed 12/24/2024



#2  
1,4-Dioxane  
Concen: 0.469 ng  
RT: 2.982 min Scan# 14  
Delta R.T. -0.000 min  
Lab File: BN035747.D  
Acq: 20 Dec 2024 18:18

Tgt Ion: 88 Resp: 1859  
Ion Ratio Lower Upper  
88 100  
43 23.8 17.2 25.8  
58 55.6 44.5 66.7





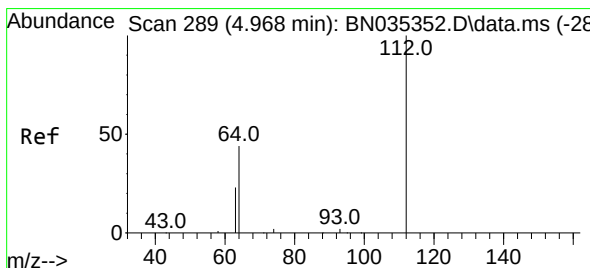
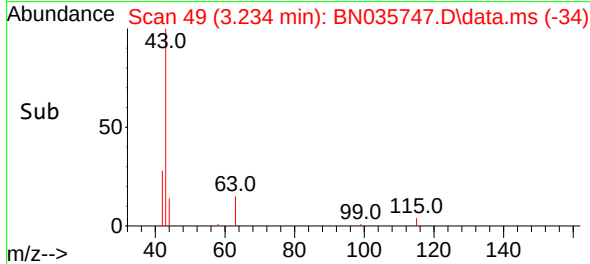
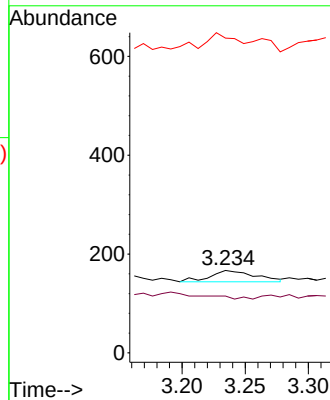
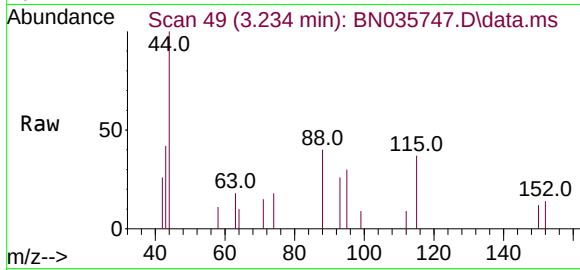
#3  
n-Nitrosodimethylamine  
Concen: 0.017 ng  
RT: 3.234 min Scan# 49  
Delta R.T. -0.044 min  
Lab File: BN035747.D  
Acq: 20 Dec 2024 18:18

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

Tgt Ion: 42 Resp: 50  
Ion Ratio Lower Upper  
42 100  
74 0.0 124.9 187.3#  
44 94.6 2.2 3.4#

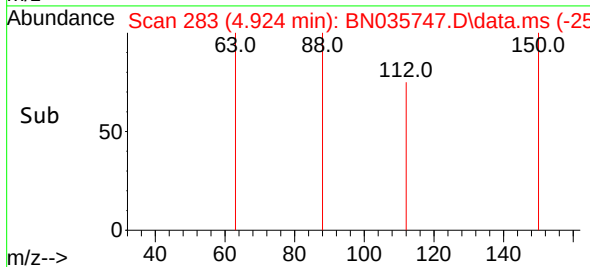
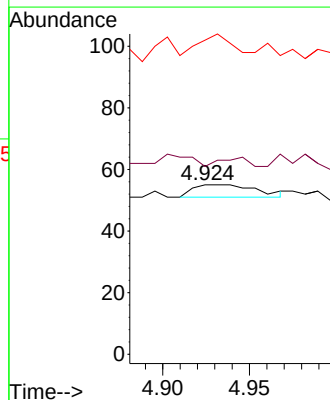
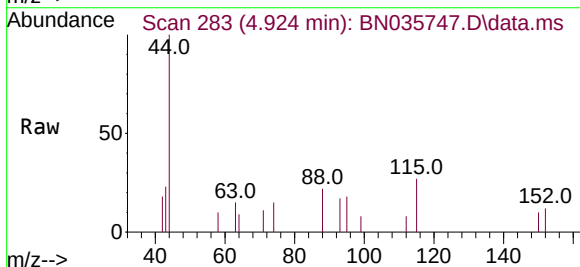
Manual Integrations  
APPROVED

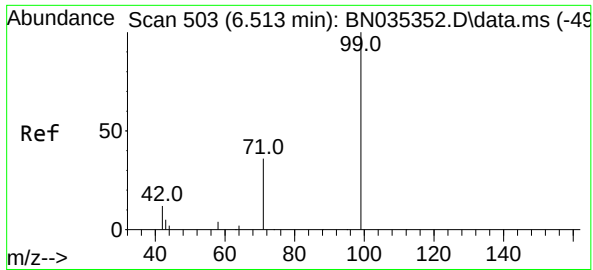
Reviewed By :Jagrut Upadhyay 12/23/2024  
Supervised By :mohammad ahmed 12/24/2024



#4  
2-Fluorophenol  
Concen: 0.001 ng  
RT: 4.924 min Scan# 283  
Delta R.T. -0.015 min  
Lab File: BN035747.D  
Acq: 20 Dec 2024 18:18

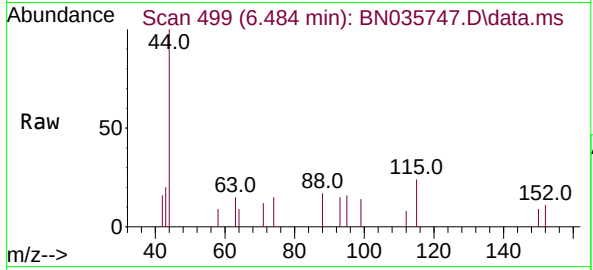
Tgt Ion:112 Resp: 10  
Ion Ratio Lower Upper  
112 100  
64 0.0 39.8 59.8#  
63 140.0 21.0 31.6#





#5  
Phenol-d6  
Concen: 0.008 ng  
RT: 6.484 min Scan# 499  
Delta R.T. -0.007 min  
Lab File: BN035747.D  
Acq: 20 Dec 2024 18:18

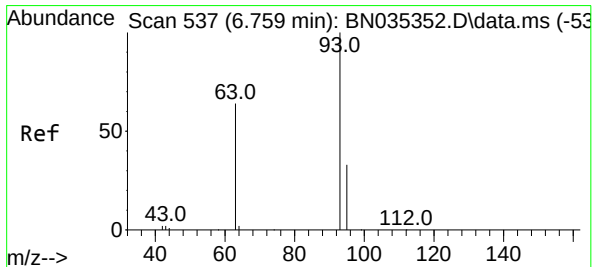
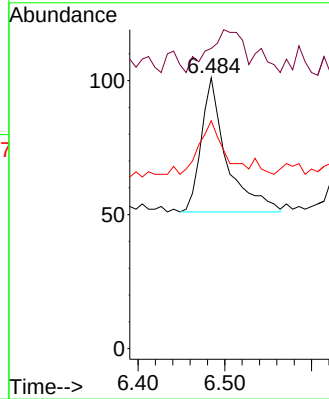
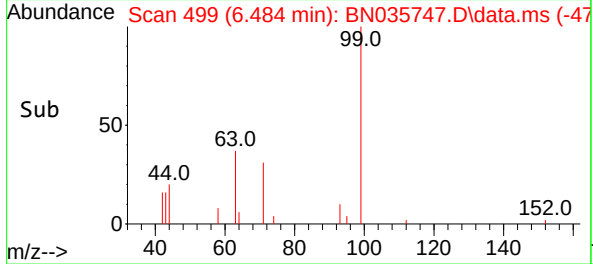
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC



Tgt Ion: 99 Resp: 102  
Ion Ratio Lower Upper  
99 100  
42 42.2 11.4 17.2  
71 39.2 29.3 43.9

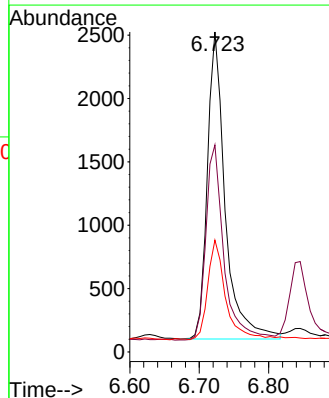
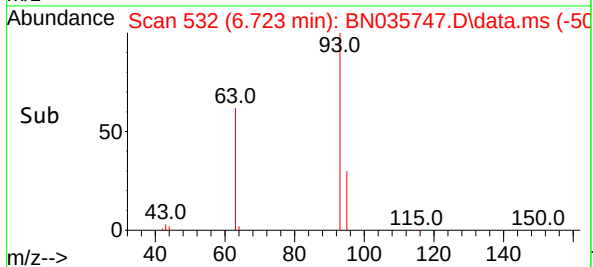
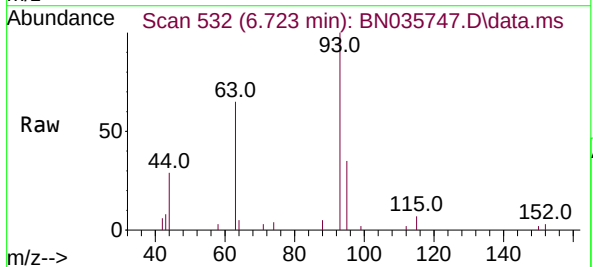
Manual Integrations  
**APPROVED**

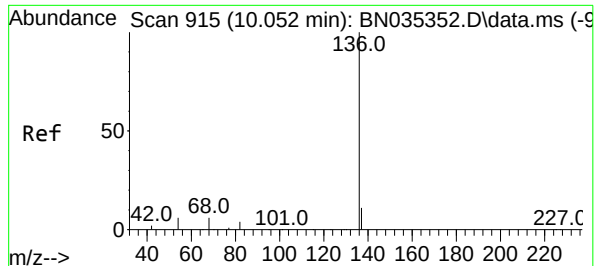
Reviewed By :Jagrut Upadhyay 12/23/2024  
Supervised By :mohammad ahmed 12/24/2024



#6  
bis(2-Chloroethyl)ether  
Concen: 0.413 ng  
RT: 6.723 min Scan# 532  
Delta R.T. -0.007 min  
Lab File: BN035747.D  
Acq: 20 Dec 2024 18:18

Tgt Ion: 93 Resp: 4332  
Ion Ratio Lower Upper  
93 100  
63 64.4 50.4 75.6  
95 33.6 25.7 38.5





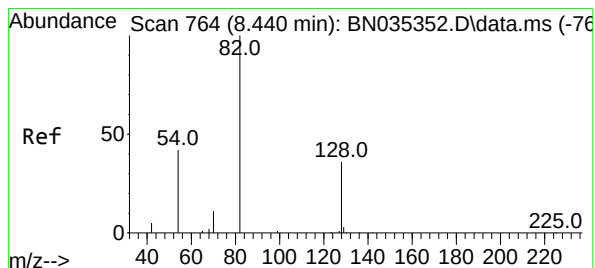
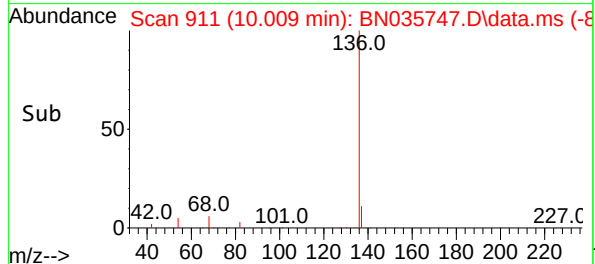
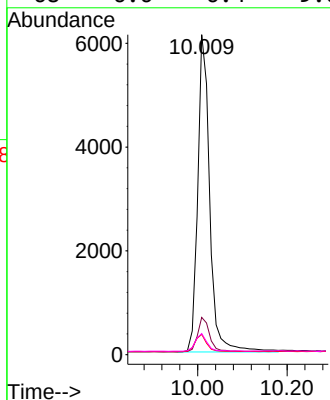
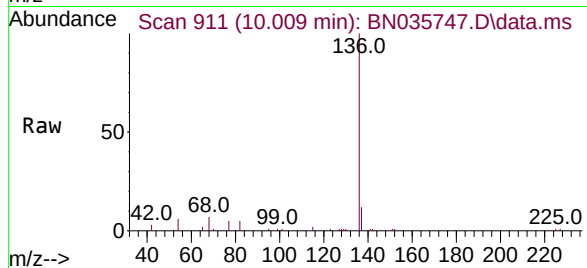
#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.009 min Scan# 915  
Delta R.T. -0.011 min  
Lab File: BN035747.D  
Acq: 20 Dec 2024 18:18

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

Tgt Ion: 136 Resp: 1140  
Ion Ratio Lower Upper  
136 100  
137 11.7 10.2 15.2  
54 6.3 6.1 9.1  
68 6.6 6.4 9.6

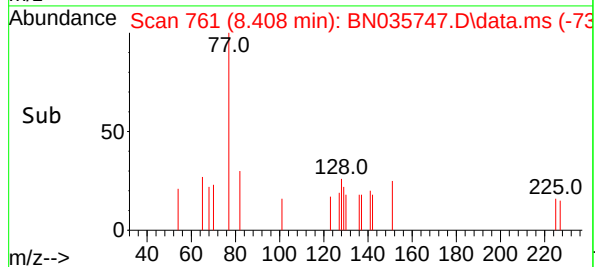
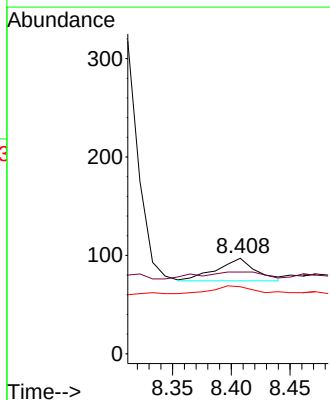
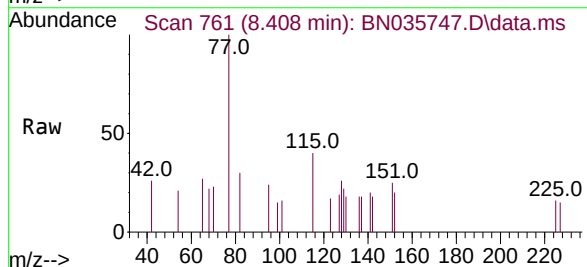
Manual Integrations  
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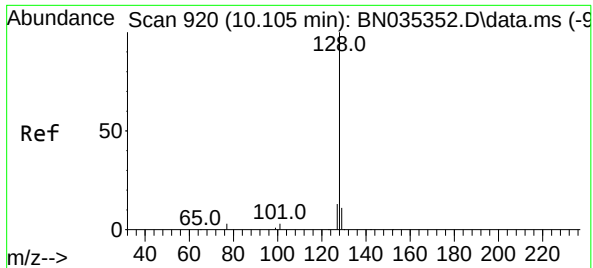
Reviewed By :Jagrut Upadhyay 12/23/2024  
Supervised By :mohammad ahmed 12/24/2024



#8  
Nitrobenzene-d5  
Concen: 0.008 ng m  
RT: 8.408 min Scan# 761  
Delta R.T. -0.000 min  
Lab File: BN035747.D  
Acq: 20 Dec 2024 18:18

Tgt Ion: 82 Resp: 53  
Ion Ratio Lower Upper  
82 100  
128 85.6 33.4 50.0#  
54 70.1 36.7 55.1#





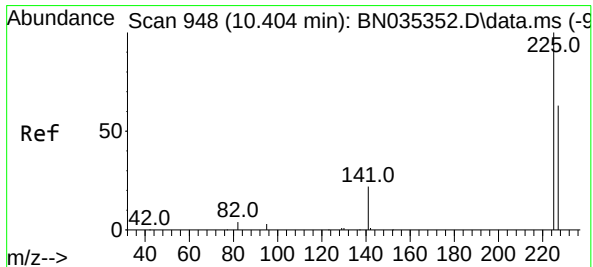
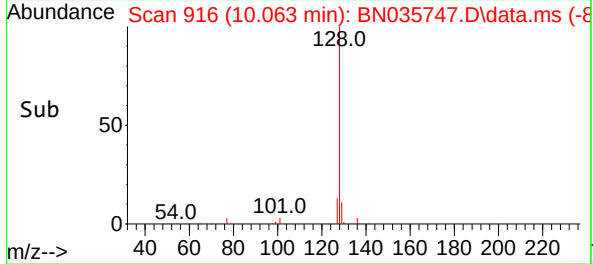
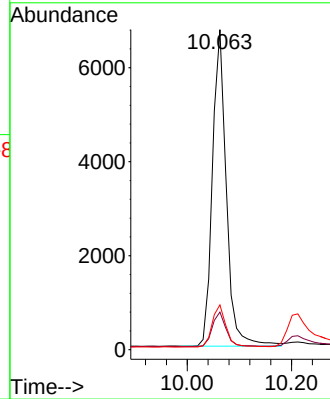
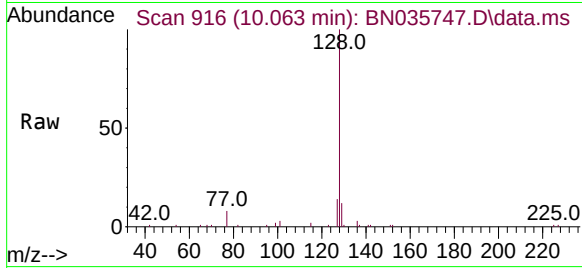
#9  
Naphthalene  
Concen: 0.413 ng  
RT: 10.063 min Scan# 916  
Delta R.T. -0.000 min  
Lab File: BN035747.D  
Acq: 20 Dec 2024 18:18

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

Tgt Ion:128 Resp: 1242  
Ion Ratio Lower Upper  
128 100  
129 11.7 9.8 14.6  
127 14.0 11.4 17.2

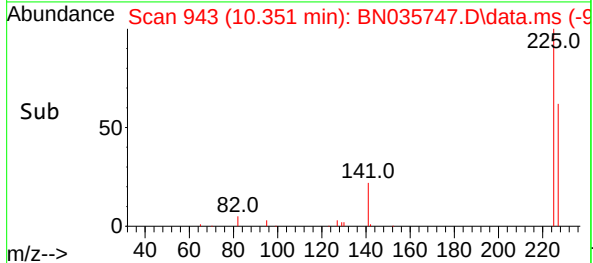
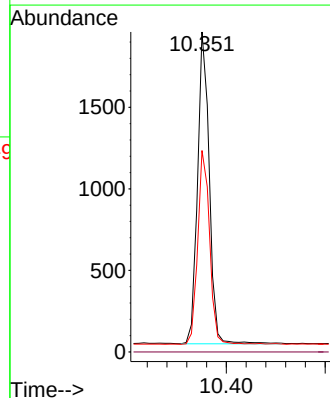
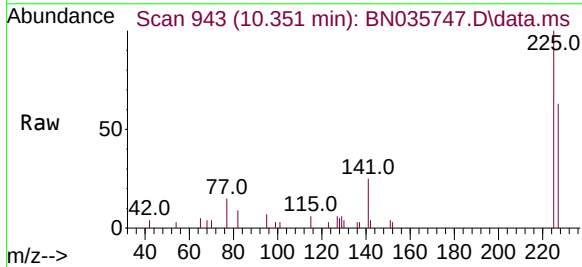
Manual Integrations  
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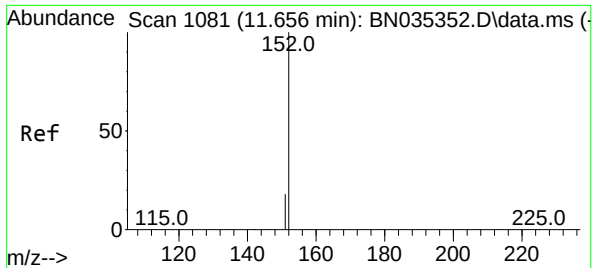
Reviewed By :Jagrut Upadhyay 12/23/2024  
Supervised By :mohammad ahmed 12/24/2024



#10  
Hexachlorobutadiene  
Concen: 0.453 ng  
RT: 10.351 min Scan# 943  
Delta R.T. -0.011 min  
Lab File: BN035747.D  
Acq: 20 Dec 2024 18:18

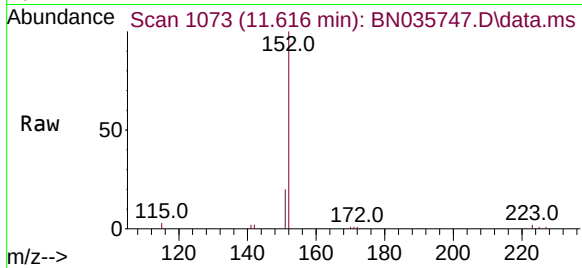
Tgt Ion:225 Resp: 3142  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 63.3 51.3 76.9





#11  
2-Methylnaphthalene-d10  
Concen: 0.395 ng  
RT: 11.616 min Scan# 1073  
Delta R.T. -0.005 min  
Lab File: BN035747.D  
Acq: 20 Dec 2024 18:18

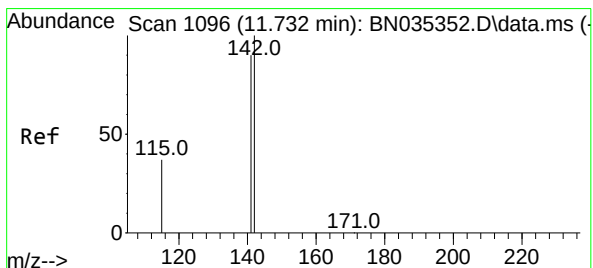
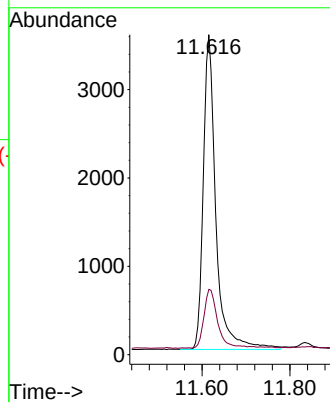
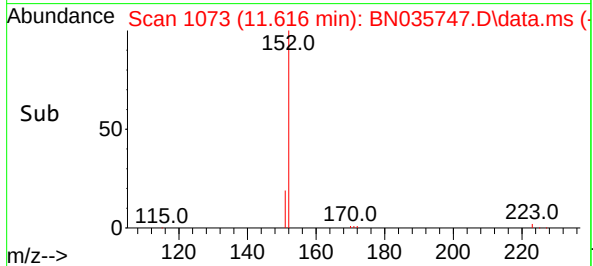
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC



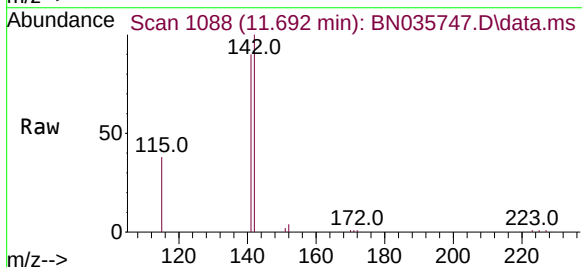
Tgt Ion:152 Resp: 7049  
Ion Ratio Lower Upper  
152 100  
151 20.4 16.6 25.0

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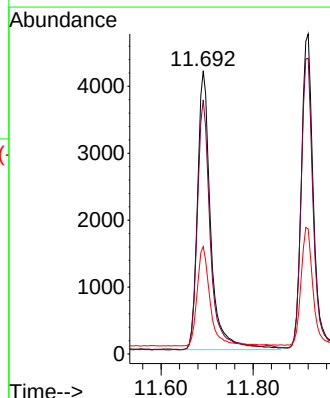
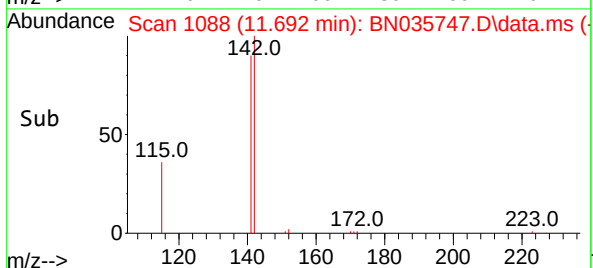
Reviewed By :Jagrut Upadhyay 12/23/2024  
Supervised By :mohammad ahmed 12/24/2024

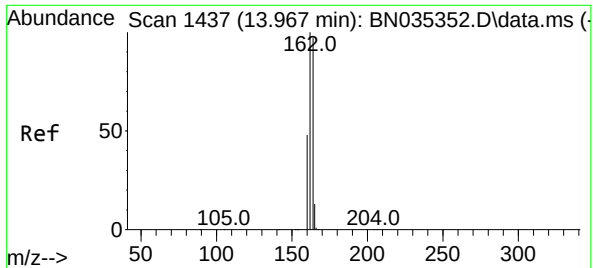


#12  
2-Methylnaphthalene  
Concen: 0.388 ng  
RT: 11.692 min Scan# 1088  
Delta R.T. -0.005 min  
Lab File: BN035747.D  
Acq: 20 Dec 2024 18:18



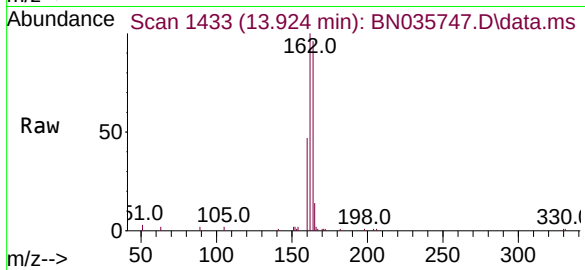
Tgt Ion:142 Resp: 8345  
Ion Ratio Lower Upper  
142 100  
141 89.7 72.2 108.4  
115 37.9 31.4 47.0





#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.924 min Scan# 1433  
Delta R.T. -0.011 min  
Lab File: BN035747.D  
Acq: 20 Dec 2024 18:18

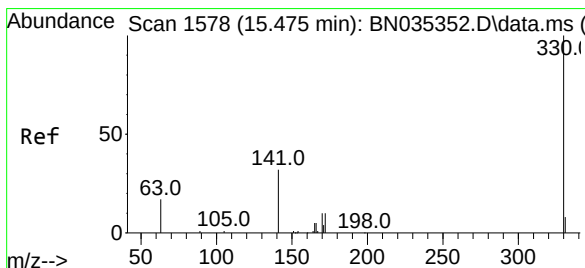
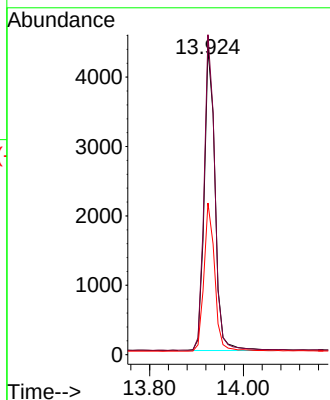
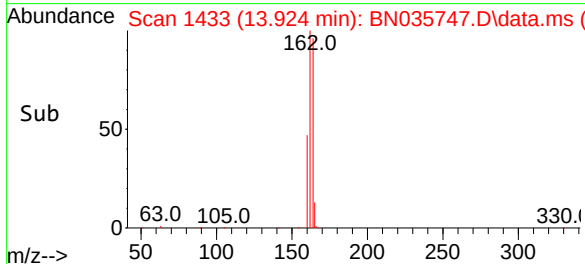
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC



Tgt Ion:164 Resp: 7019  
Ion Ratio Lower Upper  
164 100  
162 104.5 82.2 123.2  
160 49.5 40.1 60.1

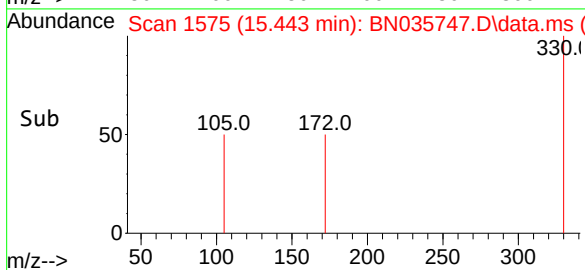
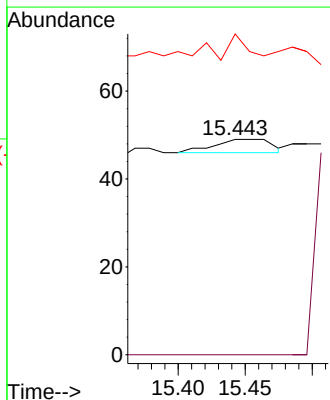
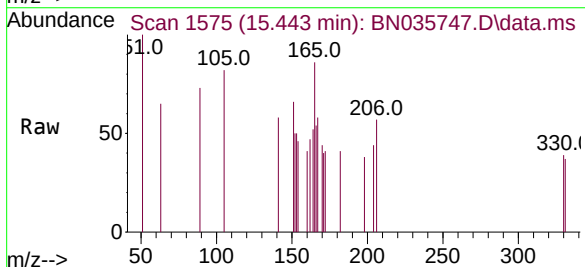
Manual Integrations  
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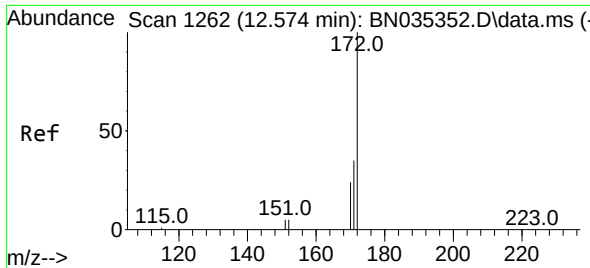
Reviewed By :Jagrut Upadhyay 12/23/2024  
Supervised By :mohammad ahmed 12/24/2024



#14  
2,4,6-Tribromophenol  
Concen: 0.002 ng  
RT: 15.443 min Scan# 1575  
Delta R.T. -0.011 min  
Lab File: BN035747.D  
Acq: 20 Dec 2024 18:18

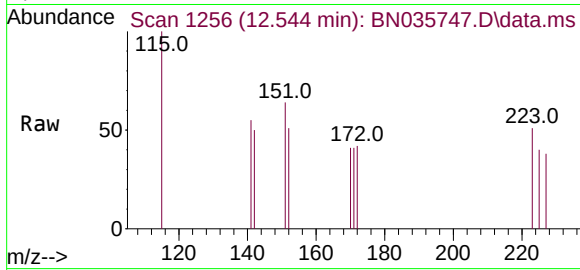
Tgt Ion:330 Resp: 9  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 77.8 26.6 40.0#





#15  
2-Fluorobiphenyl  
Concen: 0.000 ng  
RT: 12.544 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: BN035747.D  
Acq: 20 Dec 2024 18:18

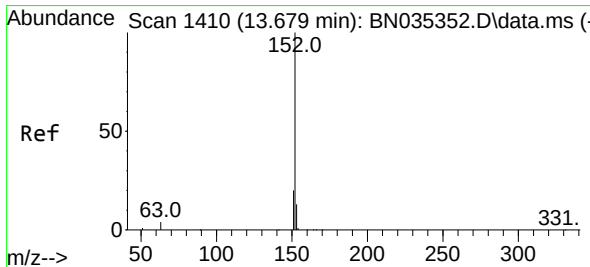
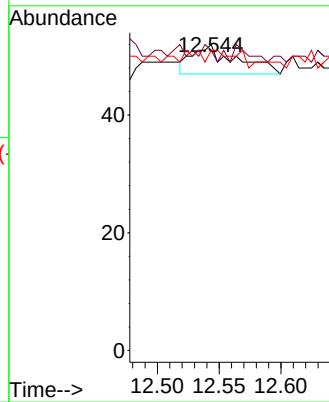
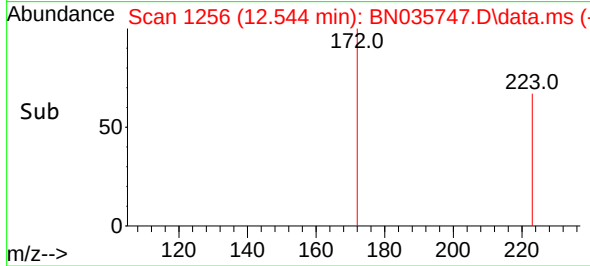
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC



Tgt Ion:172 Resp: 11  
Ion Ratio Lower Upper  
172 100  
171 98.1 29.0 43.4  
170 98.1 19.8 29.8

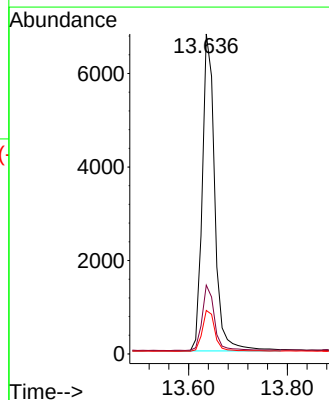
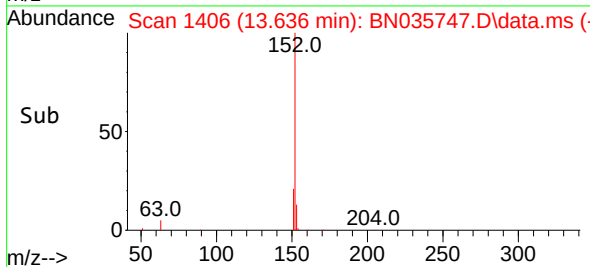
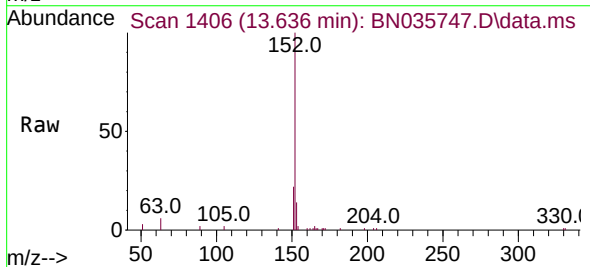
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Supervised By :mohammad ahmed 12/24/2024

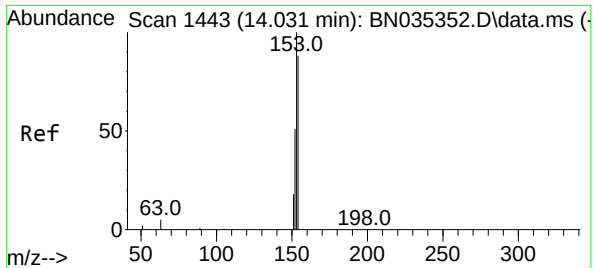


#16  
Acenaphthylene  
Concen: 0.405 ng  
RT: 13.636 min Scan# 1406  
Delta R.T. -0.011 min  
Lab File: BN035747.D  
Acq: 20 Dec 2024 18:18

Tgt Ion:152 Resp: 11936  
Ion Ratio Lower Upper  
152 100  
151 20.3 16.2 24.2  
153 13.1 10.4 15.6

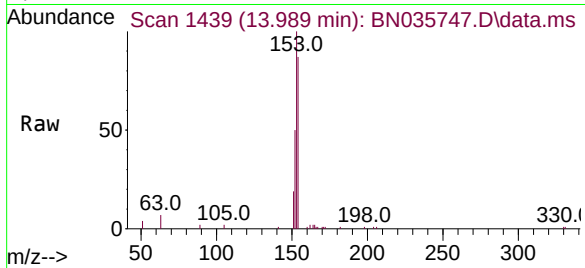






#17  
Acenaphthene  
Concen: 0.417 ng  
RT: 13.989 min Scan# 1443  
Delta R.T. -0.011 min  
Lab File: BN035747.D  
Acq: 20 Dec 2024 18:18

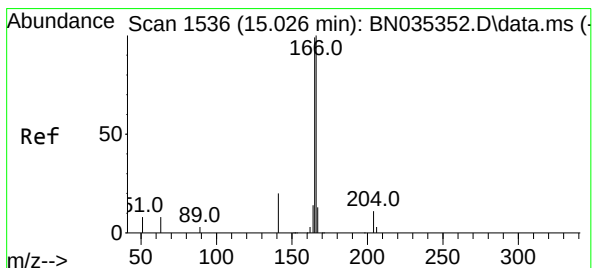
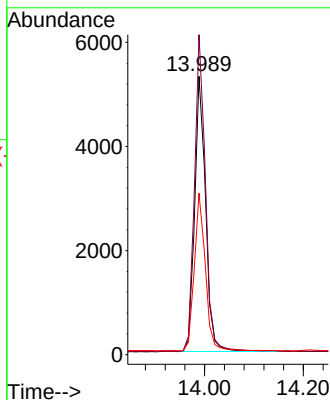
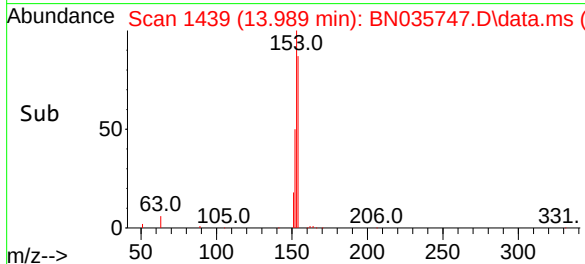
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC



Tgt Ion:154 Resp: 816  
Ion Ratio Lower Upper  
154 100  
153 115.3 92.6 139.0  
152 57.6 49.0 73.6

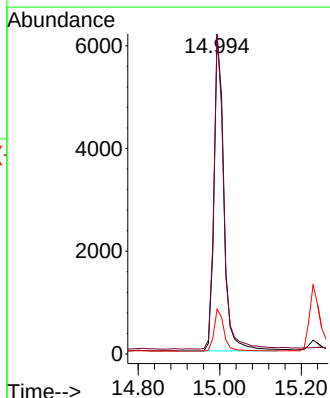
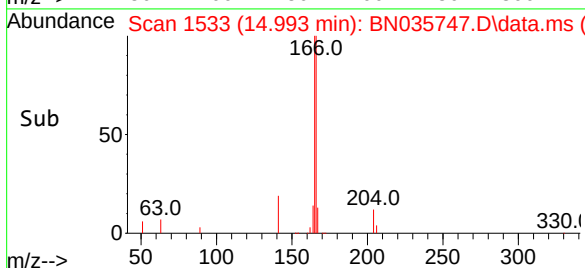
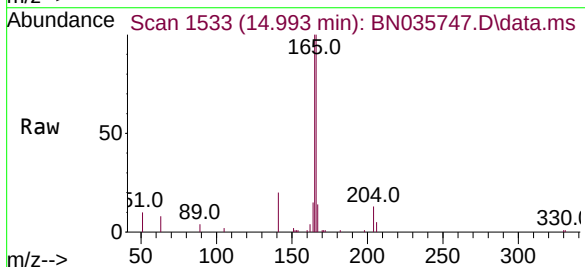
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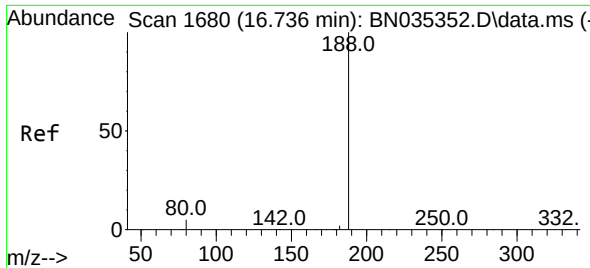
Reviewed By :Jagrut Upadhyay 12/23/2024  
Supervised By :mohammad ahmed 12/24/2024



#18  
Fluorene  
Concen: 0.368 ng  
RT: 14.993 min Scan# 1533  
Delta R.T. -0.011 min  
Lab File: BN035747.D  
Acq: 20 Dec 2024 18:18

Tgt Ion:166 Resp: 10307  
Ion Ratio Lower Upper  
166 100  
165 98.2 79.7 119.5  
167 13.4 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.698 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN035747.D

Acq: 20 Dec 2024 18:18

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC

Tgt Ion:188 Resp: 1395

Ion Ratio Lower Upper

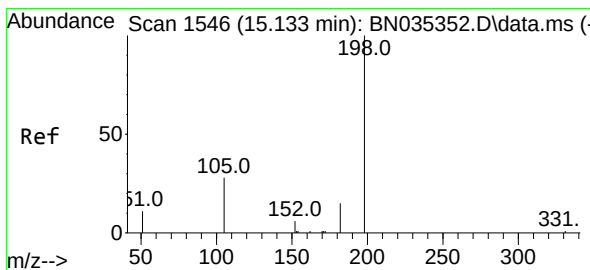
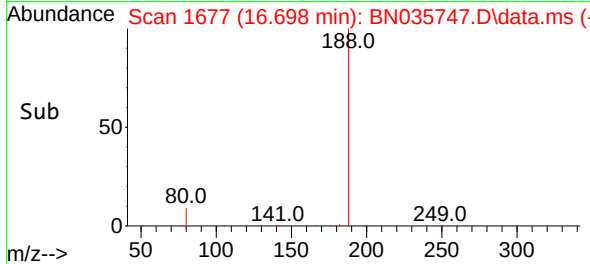
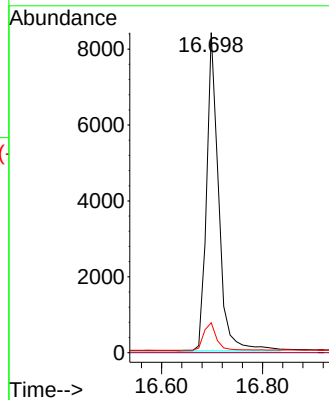
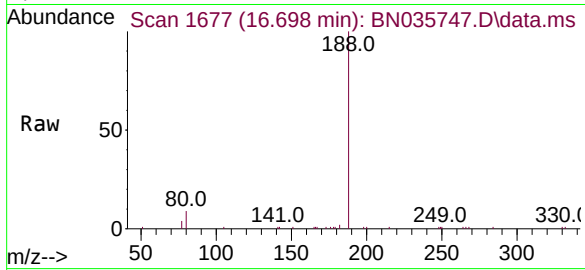
188 100

94 0.0 0.0 0.0

80 9.4 4.6 6.8

Manual Integrations

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Supervised By :mohammad ahmed 12/24/2024

#20

4,6-Dinitro-2-methylphenol

Concen: 0.122 ng

RT: 15.122 min Scan# 1545

Delta R.T. -0.000 min

Lab File: BN035747.D

Acq: 20 Dec 2024 18:18

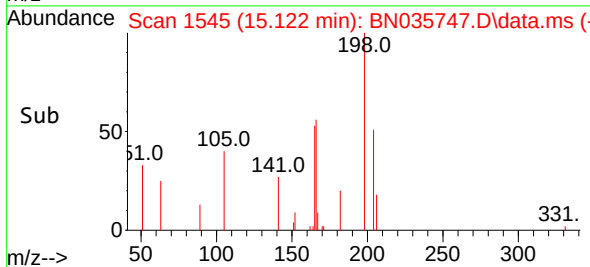
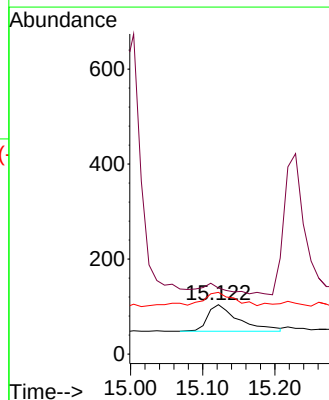
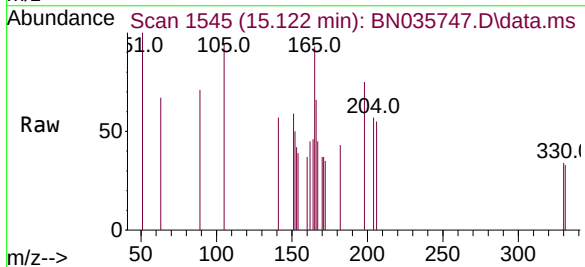
Tgt Ion:198 Resp: 168

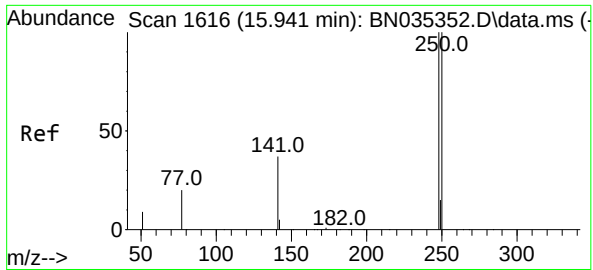
Ion Ratio Lower Upper

198 100

51 133.7 46.5 69.7#

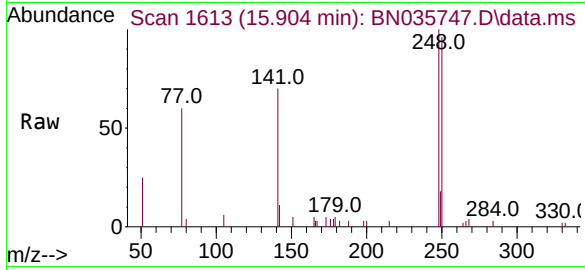
105 125.0 45.3 67.9#





#21  
4-Bromophenyl-phenylether  
Concen: 0.391 ng  
RT: 15.904 min Scan# 1613  
Delta R.T. -0.013 min  
Lab File: BN035747.D  
Acq: 20 Dec 2024 18:18

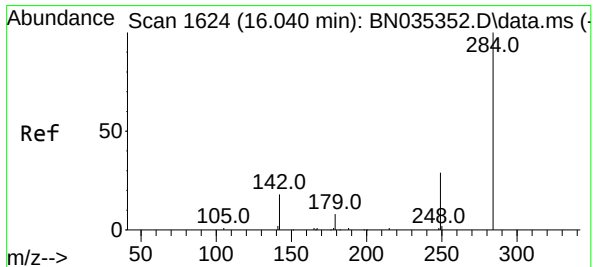
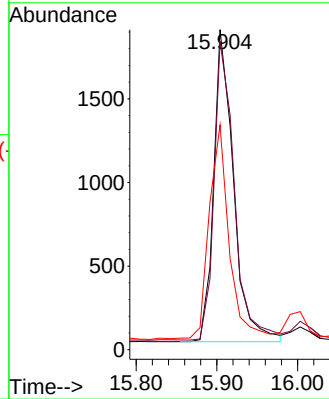
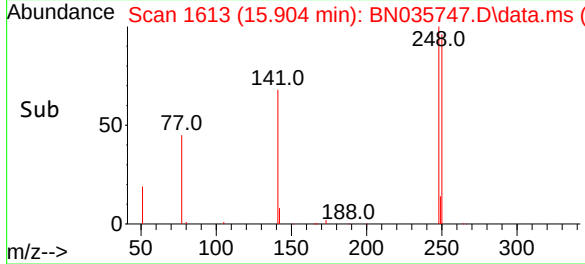
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC



Tgt Ion:248 Resp: 3188  
Ion Ratio Lower Upper  
248 100  
250 96.4 80.6 120.8  
141 70.3 31.5 47.3

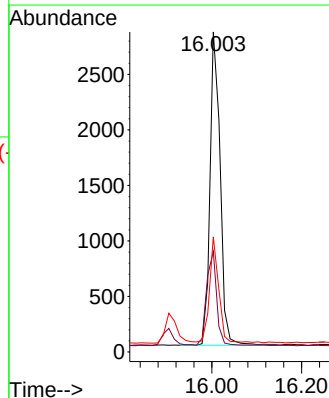
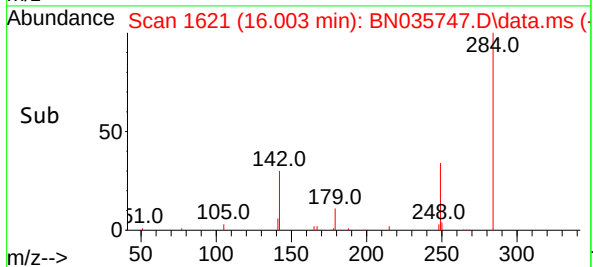
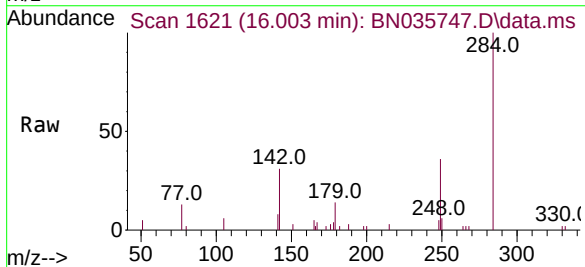
Manual Integrations  
**APPROVED**

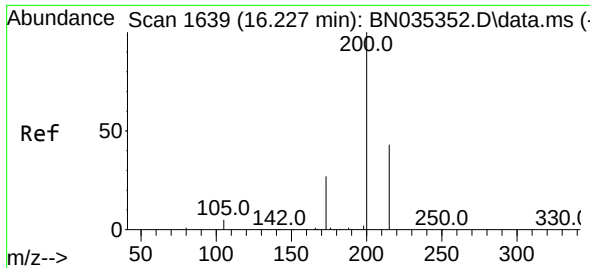
Reviewed By :Jagrut Upadhyay 12/23/2024  
Supervised By :mohammad ahmed 12/24/2024



#22  
Hexachlorobenzene  
Concen: 0.460 ng  
RT: 16.003 min Scan# 1621  
Delta R.T. -0.013 min  
Lab File: BN035747.D  
Acq: 20 Dec 2024 18:18

Tgt Ion:284 Resp: 4408  
Ion Ratio Lower Upper  
284 100  
142 29.9 26.7 40.1  
249 30.7 24.6 36.8





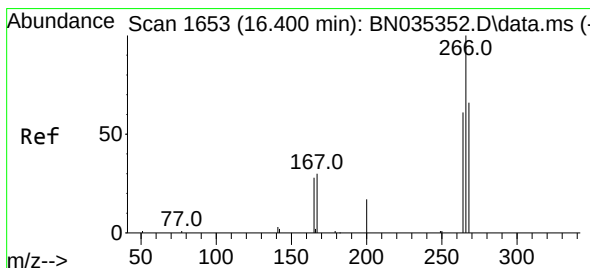
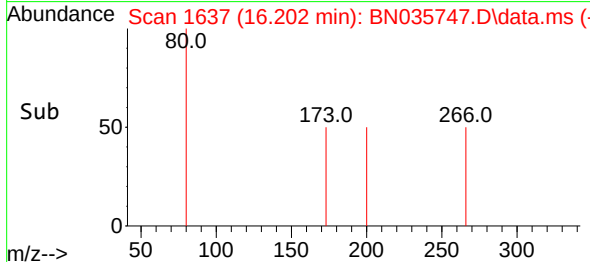
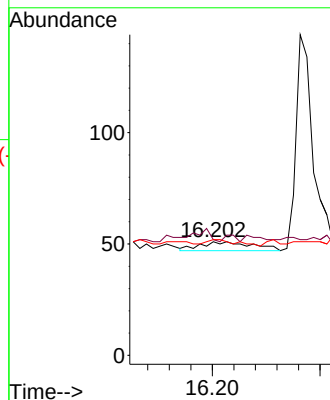
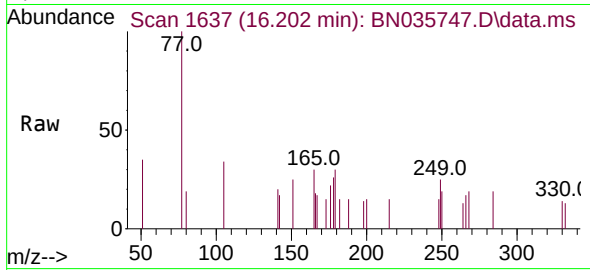
#23  
Atrazine  
Concen: 0.005 ng  
RT: 16.202 min Scan# 1637  
Delta R.T. -0.000 min  
Lab File: BN035747.D  
Acq: 20 Dec 2024 18:18

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

Tgt Ion:200 Resp: 21  
Ion Ratio Lower Upper  
200 100  
173 102.0 24.1 36.1  
215 102.0 36.9 55.3

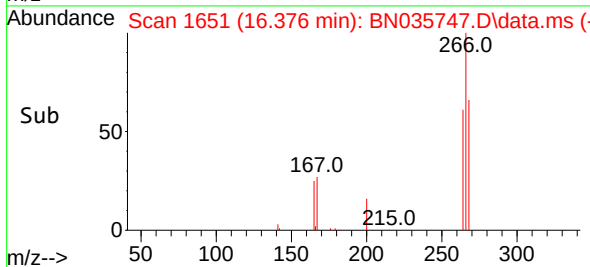
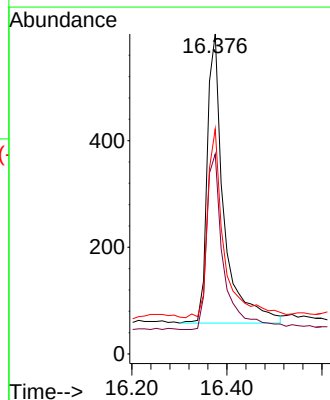
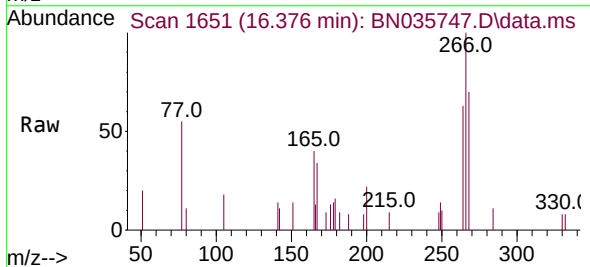
Manual Integrations  
APPROVED

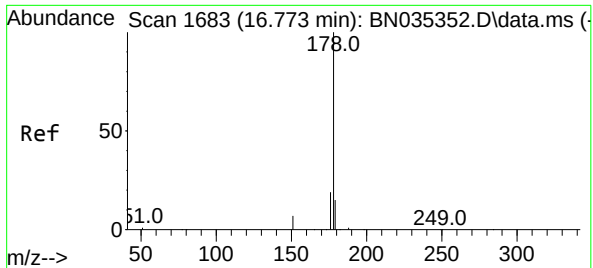
Reviewed By :Jagrut Upadhyay 12/23/2024  
Supervised By :mohammad ahmed 12/24/2024



#24  
Pentachlorophenol  
Concen: 0.319 ng  
RT: 16.376 min Scan# 1651  
Delta R.T. -0.000 min  
Lab File: BN035747.D  
Acq: 20 Dec 2024 18:18

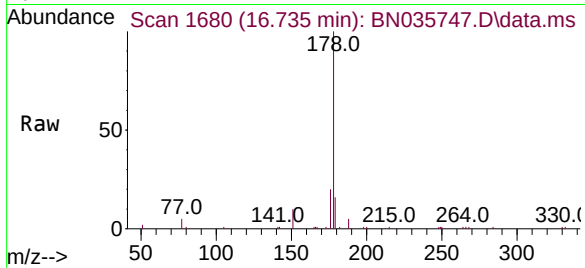
Tgt Ion:266 Resp: 1329  
Ion Ratio Lower Upper  
266 100  
264 61.8 42.3 63.5  
268 64.7 43.3 64.9





#25  
Phenanthrene  
Concen: 0.403 ng  
RT: 16.735 min Scan# 1680  
Delta R.T. -0.013 min  
Lab File: BN035747.D  
Acq: 20 Dec 2024 18:18

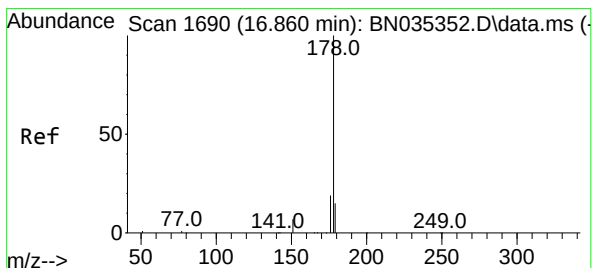
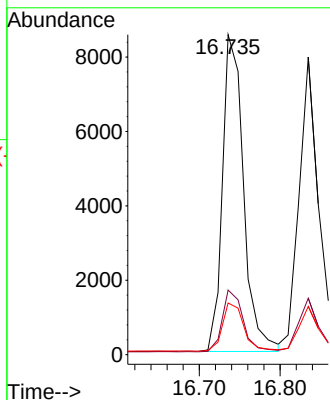
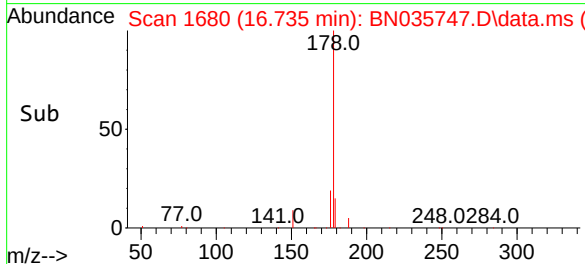
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC



Tgt Ion:178 Resp: 1545  
Ion Ratio Lower Upper  
178 100  
176 19.2 15.4 23.2  
179 15.4 12.3 18.5

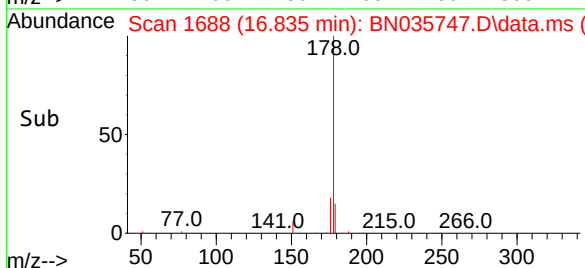
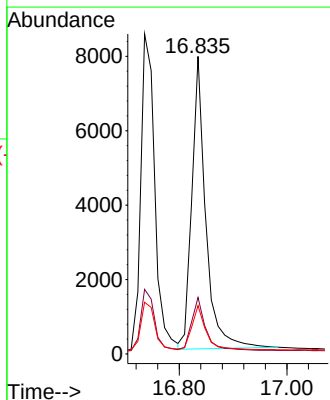
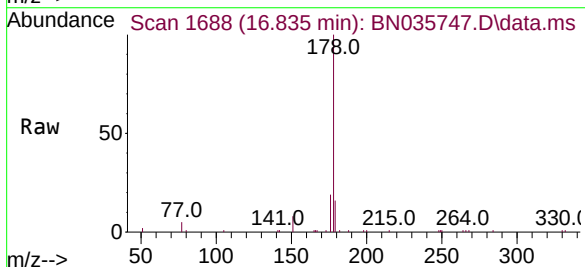
Manual Integrations  
**APPROVED**

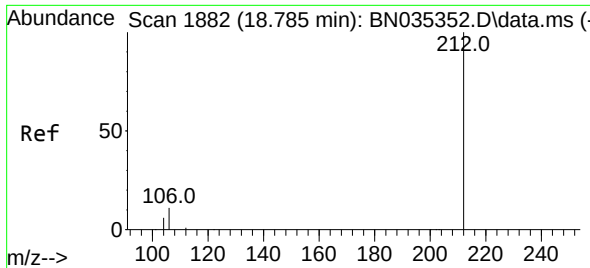
Reviewed By :Jagrut Upadhyay 12/23/2024  
Supervised By :mohammad ahmed 12/24/2024



#26  
Anthracene  
Concen: 0.408 ng  
RT: 16.835 min Scan# 1688  
Delta R.T. -0.000 min  
Lab File: BN035747.D  
Acq: 20 Dec 2024 18:18

Tgt Ion:178 Resp: 14156  
Ion Ratio Lower Upper  
178 100  
176 18.4 15.0 22.6  
179 15.5 12.6 18.8





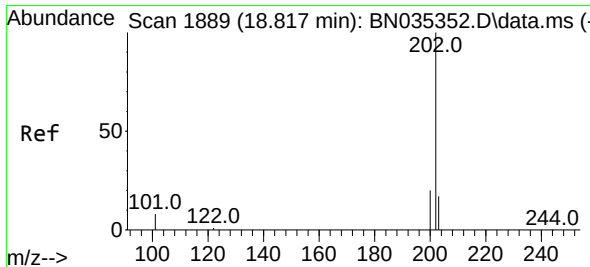
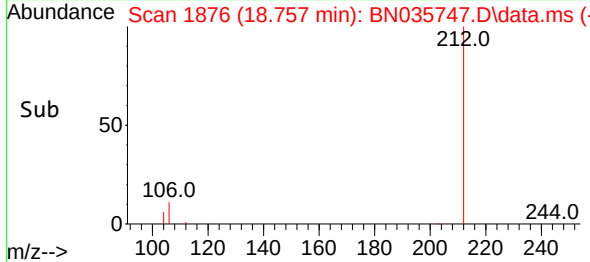
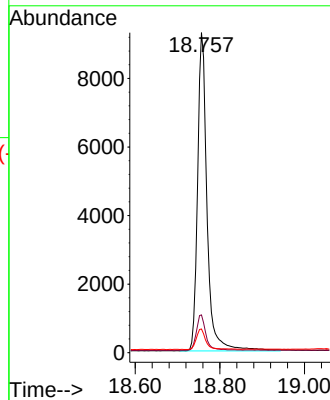
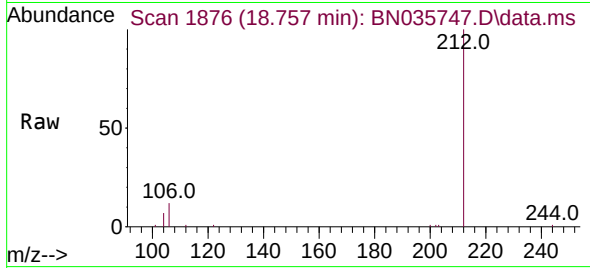
#27  
Fluoranthene-d10  
Concen: 0.365 ng  
RT: 18.757 min Scan# 1876  
Delta R.T. -0.005 min  
Lab File: BN035747.D  
Acq: 20 Dec 2024 18:18

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

Tgt Ion:212 Resp: 1442  
Ion Ratio Lower Upper  
212 100  
106 11.1 9.2 13.8  
104 6.3 5.3 7.9

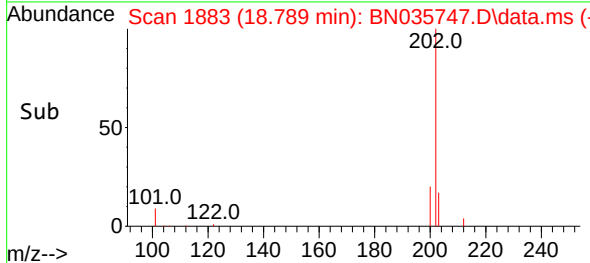
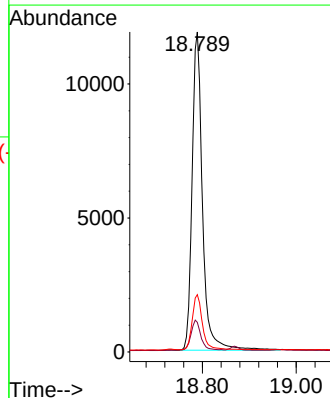
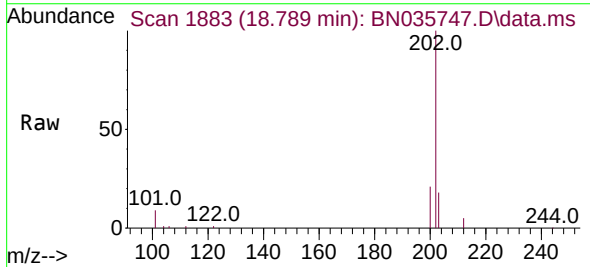
Manual Integrations  
**APPROVED**

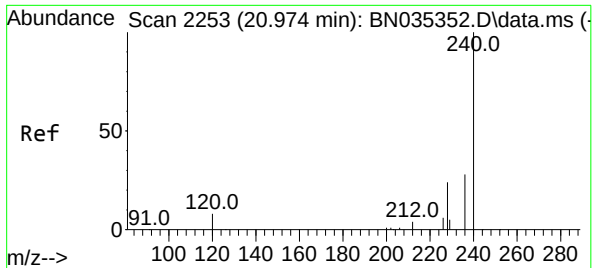
Reviewed By :Jagrut Upadhyay 12/23/2024  
Supervised By :mohammad ahmed 12/24/2024



#28  
Fluoranthene  
Concen: 0.353 ng  
RT: 18.789 min Scan# 1883  
Delta R.T. -0.000 min  
Lab File: BN035747.D  
Acq: 20 Dec 2024 18:18

Tgt Ion:202 Resp: 18255  
Ion Ratio Lower Upper  
202 100  
101 9.4 7.4 11.0  
203 17.0 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.956 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035747.D

Acq: 20 Dec 2024 18:18

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC

Tgt Ion:240 Resp: 11878

Ion Ratio Lower Upper

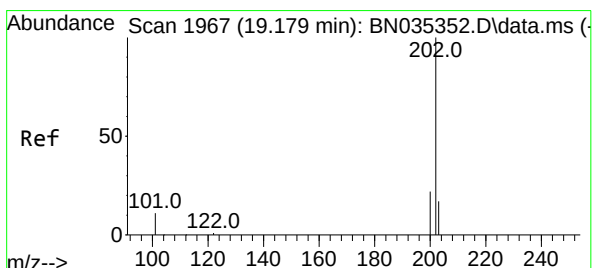
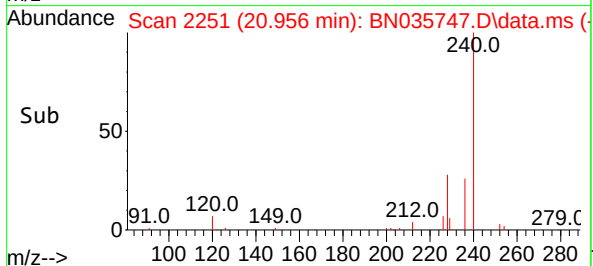
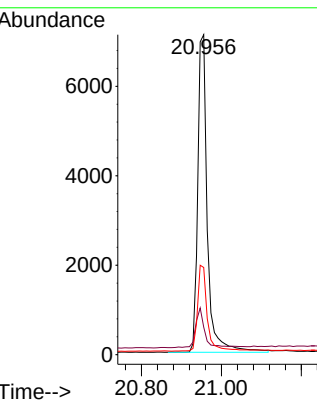
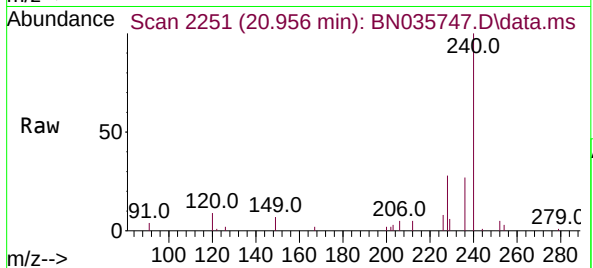
240 100

120 8.6 7.9 11.9

236 27.2 22.9 34.3

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 12/23/2024  
Supervised By :mohammad ahmed 12/24/2024

#30

Pyrene

Concen: 0.453 ng

RT: 19.156 min Scan# 1962

Delta R.T. -0.005 min

Lab File: BN035747.D

Acq: 20 Dec 2024 18:18

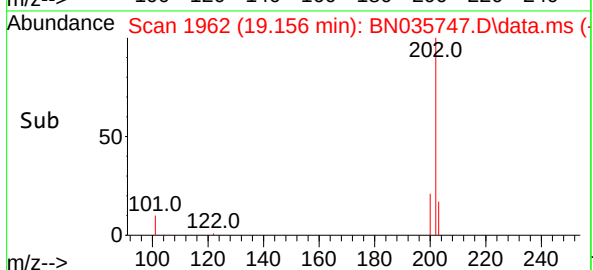
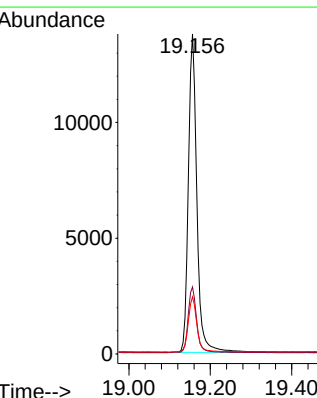
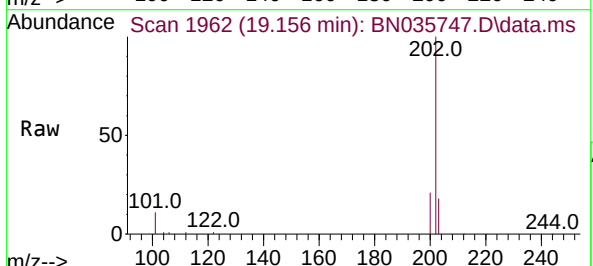
Tgt Ion:202 Resp: 19874

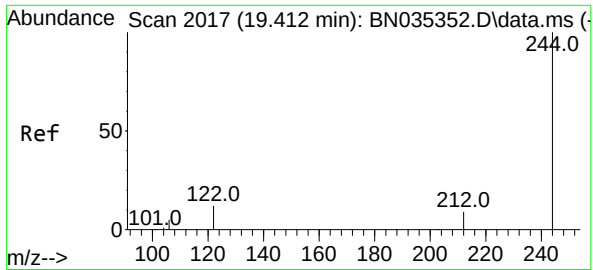
Ion Ratio Lower Upper

202 100

200 21.0 17.0 25.4

203 17.9 14.3 21.5





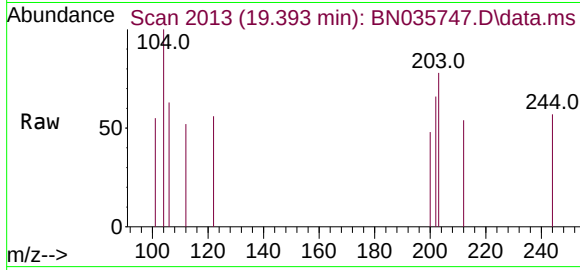
#31  
Terphenyl-d14  
Concen: 0.001 ng  
RT: 19.393 min Scan# 2017  
Delta R.T. 0.004 min  
Lab File: BN035747.D  
Acq: 20 Dec 2024 18:18

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC

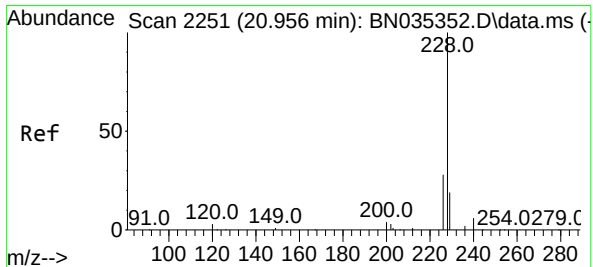
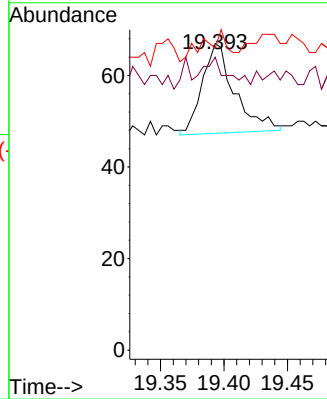
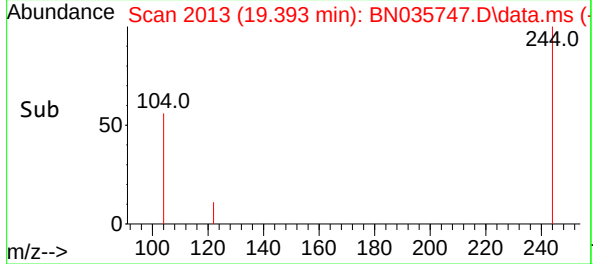


Tgt Ion:244 Resp: 35  
Ion Ratio Lower Upper  
244 100  
212 95.5 8.1 12.1  
122 98.5 10.3 15.5

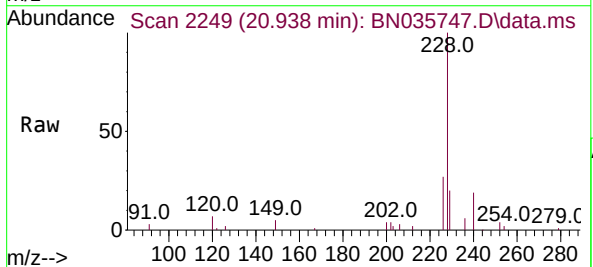
Manual Integrations

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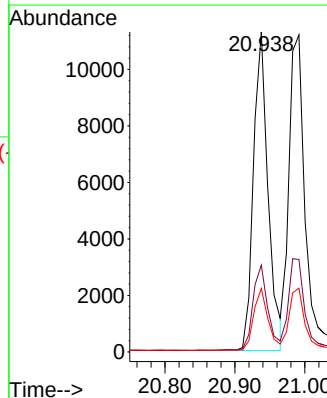
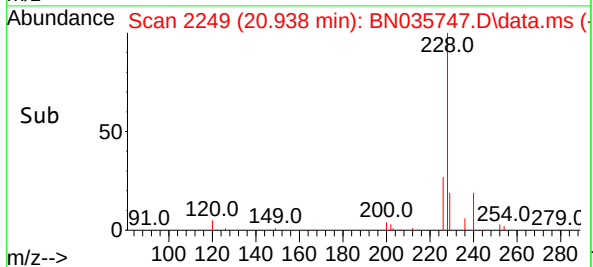
Reviewed By :Jagrut Upadhyay 12/23/2024  
Supervised By :mohammad ahmed 12/24/2024



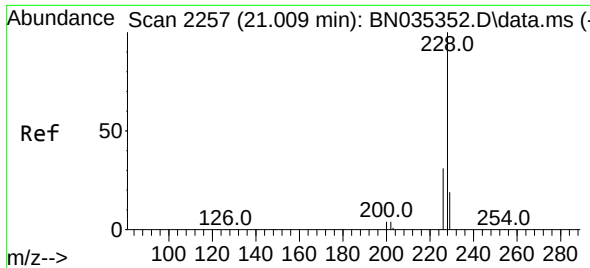
#32  
Benzo(a)anthracene  
Concen: 0.394 ng  
RT: 20.938 min Scan# 2249  
Delta R.T. -0.000 min  
Lab File: BN035747.D  
Acq: 20 Dec 2024 18:18



Tgt Ion:228 Resp: 16354  
Ion Ratio Lower Upper  
228 100  
226 27.2 22.5 33.7  
229 19.9 15.8 23.8

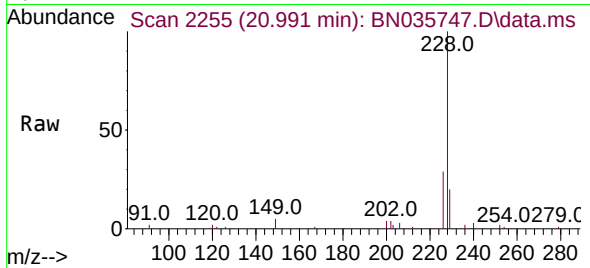






#33  
Chrysene  
Concen: 0.428 ng  
RT: 20.991 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: BN035747.D  
Acq: 20 Dec 2024 18:18

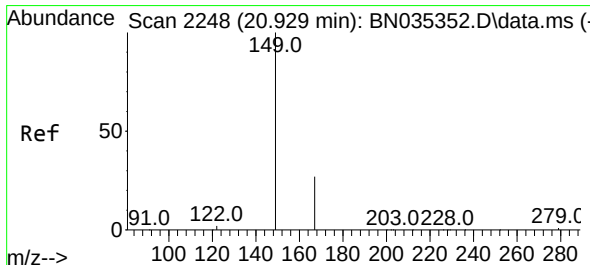
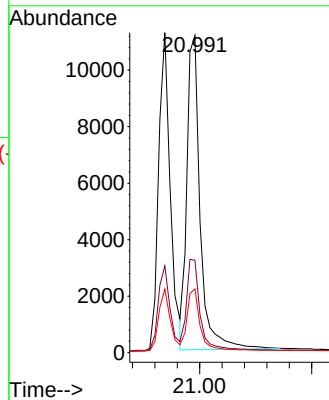
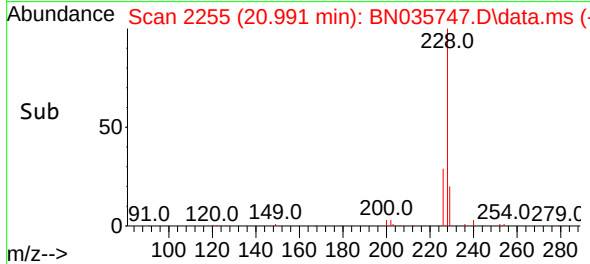
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC



Tgt Ion:228 Resp: 18340  
Ion Ratio Lower Upper  
228 100  
226 29.2 24.6 37.0  
229 20.1 15.9 23.9

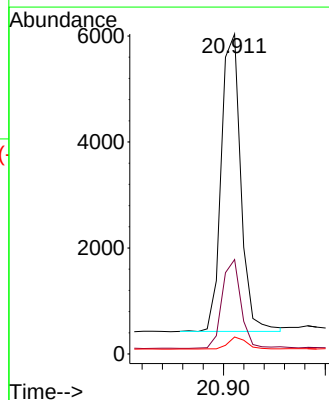
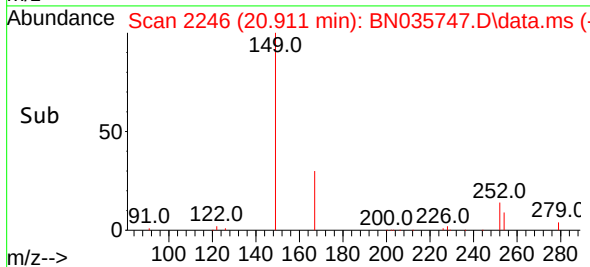
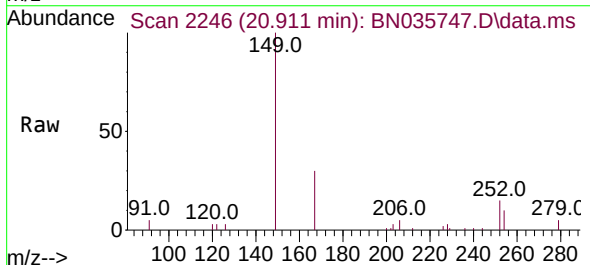
Manual Integrations  
**APPROVED**

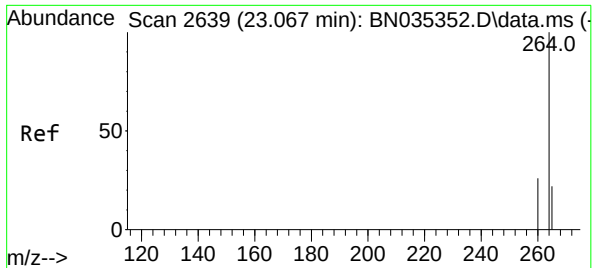
Reviewed By :Jagrut Upadhyay 12/23/2024  
Supervised By :mohammad ahmed 12/24/2024



#34  
Bis(2-ethylhexyl)phthalate  
Concen: 0.456 ng  
RT: 20.911 min Scan# 2246  
Delta R.T. -0.000 min  
Lab File: BN035747.D  
Acq: 20 Dec 2024 18:18

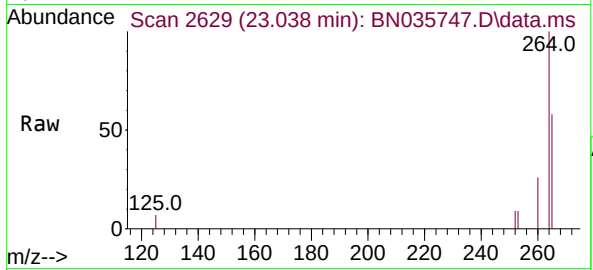
Tgt Ion:149 Resp: 7490  
Ion Ratio Lower Upper  
149 100  
167 29.2 22.2 33.4  
279 3.7 2.7 4.1





#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.038 min Scan# 2629  
Delta R.T. -0.003 min  
Lab File: BN035747.D  
Acq: 20 Dec 2024 18:18

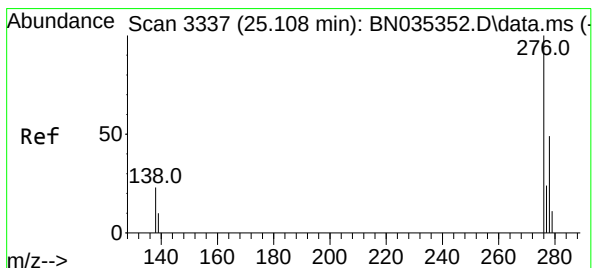
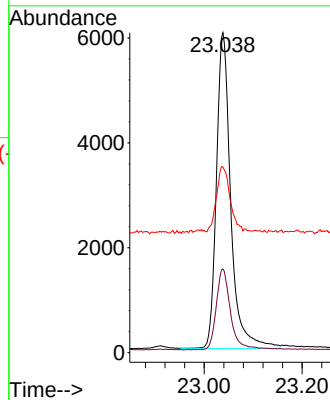
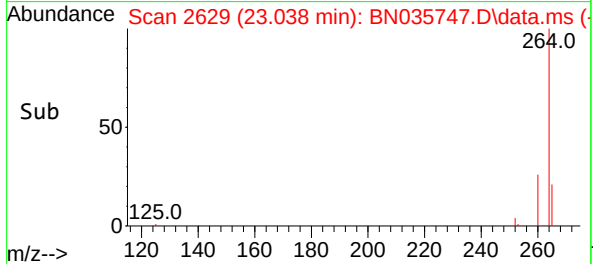
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC



Tgt Ion:264 Resp: 12200  
Ion Ratio Lower Upper  
264 100  
260 26.2 21.4 32.2  
265 58.1 40.2 60.4

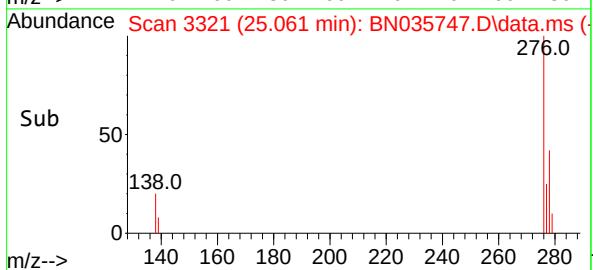
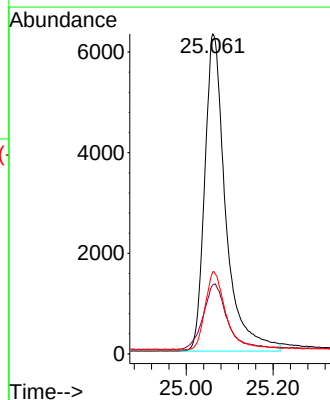
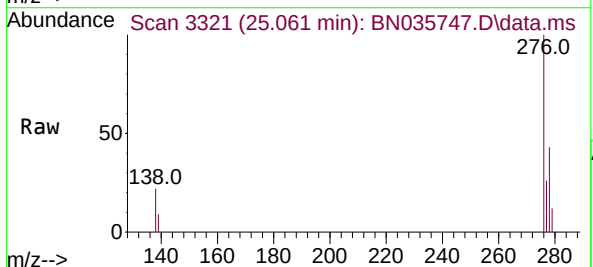
Manual Integrations  
APPROVED

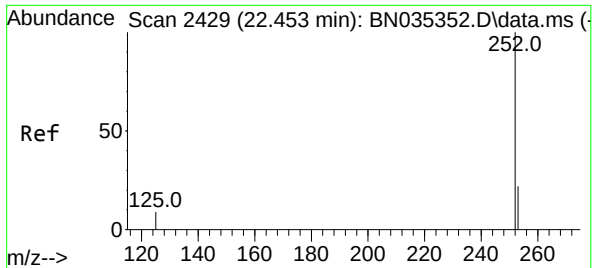
Reviewed By :Jagrut Upadhyay 12/23/2024  
Supervised By :mohammad ahmed 12/24/2024



#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.442 ng  
RT: 25.061 min Scan# 3321  
Delta R.T. -0.006 min  
Lab File: BN035747.D  
Acq: 20 Dec 2024 18:18

Tgt Ion:276 Resp: 21102  
Ion Ratio Lower Upper  
276 100  
138 23.7 19.4 29.0  
277 25.2 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.493 ng

RT: 22.427 min Scan# 2420

Delta R.T. -0.003 min

Lab File: BN035747.D

Acq: 20 Dec 2024 18:18

Instrument :

BNA\_N

ClientSampleId :

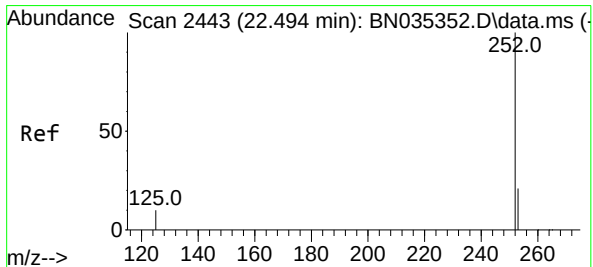
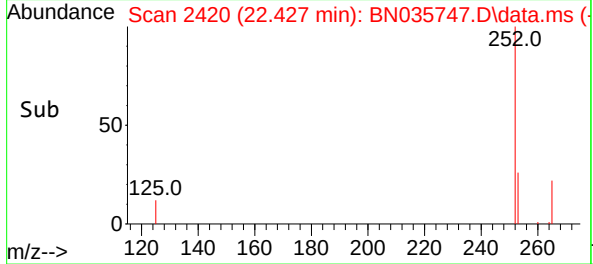
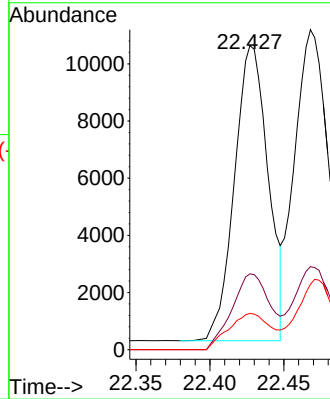
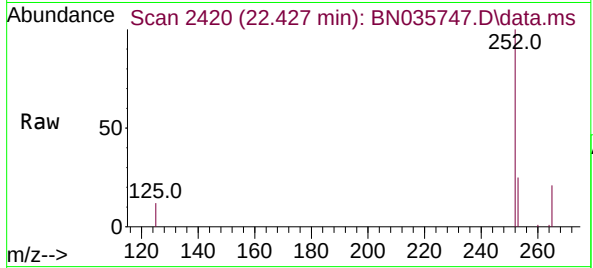
SSTDCCC0.4EC

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 252   | Resp: | 2198 |
| Ion Ratio | Lower | Upper |      |
| 252       | 100   |       |      |
| 253       | 25.0  | 19.6  | 29.4 |
| 125       | 12.0  | 9.6   | 14.4 |

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 12/23/2024  
Supervised By :mohammad ahmed 12/24/2024



#38

Benzo(k)fluoranthene

Concen: 0.436 ng m

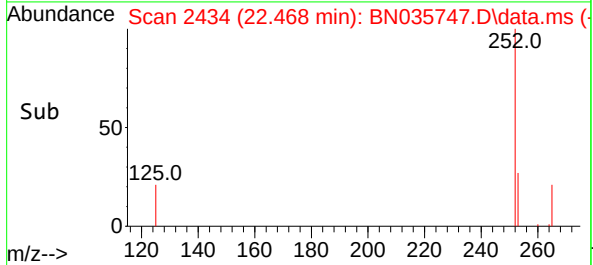
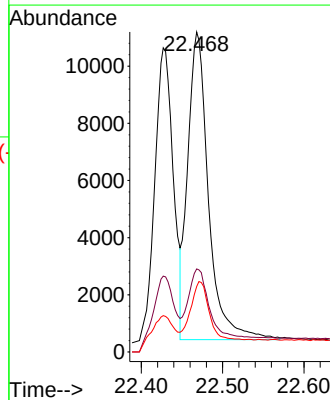
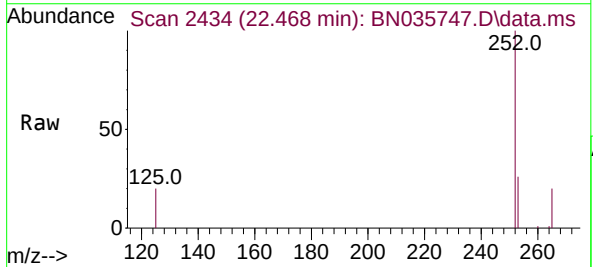
RT: 22.468 min Scan# 2434

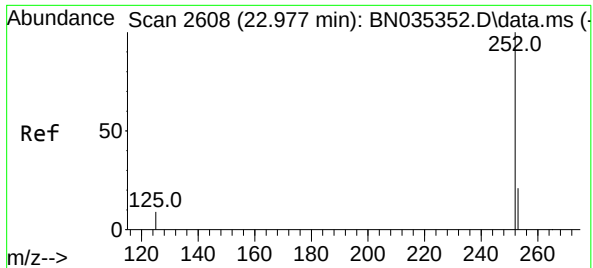
Delta R.T. -0.003 min

Lab File: BN035747.D

Acq: 20 Dec 2024 18:18

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 19139 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 26.0  | 19.5  | 29.3  |
| 125       | 20.5  | 10.2  | 15.4  |





#39

Benzo(a)pyrene

Concen: 0.425 ng

RT: 22.947 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN035747.D

Acq: 20 Dec 2024 18:18

Instrument :

BNA\_N

ClientSampleId :

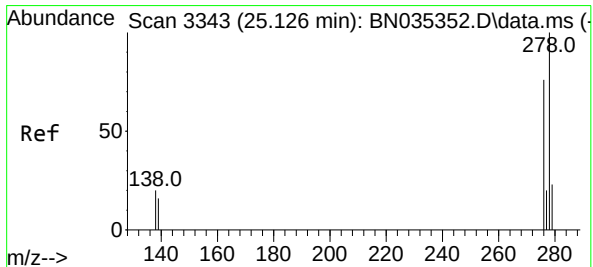
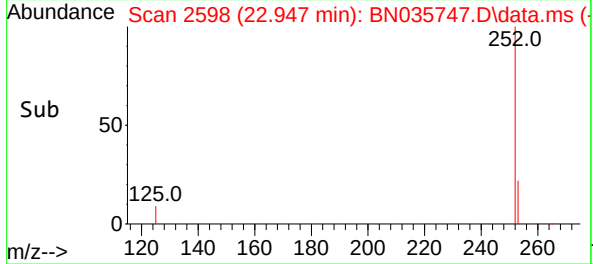
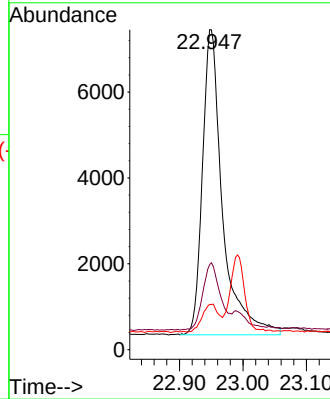
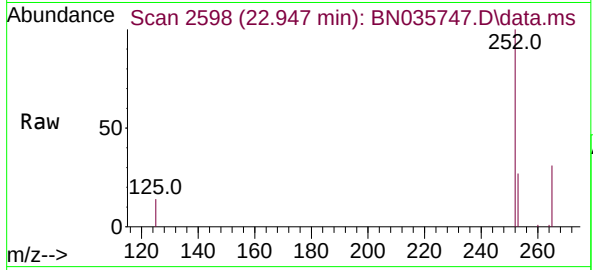
SSTDCCC0.4EC

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 15630 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 26.6  | 20.2  | 30.4  |
| 125       | 14.2  | 10.9  | 16.3  |

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 12/23/2024  
Supervised By :mohammad ahmed 12/24/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.421 ng

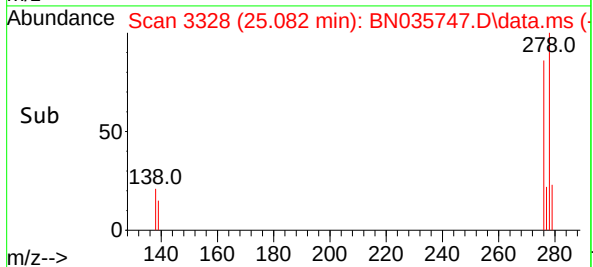
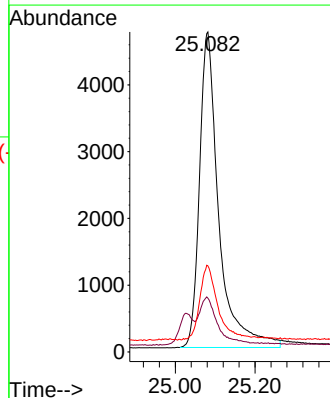
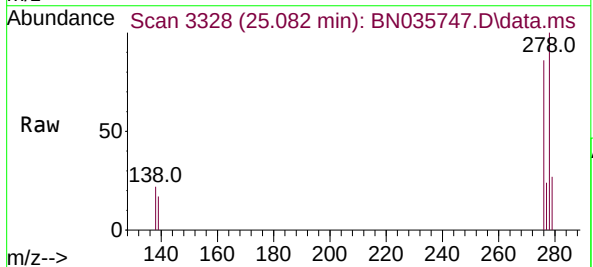
RT: 25.082 min Scan# 3328

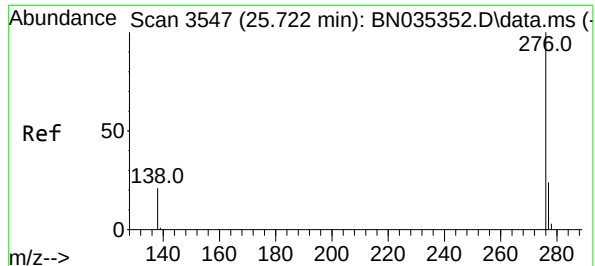
Delta R.T. -0.000 min

Lab File: BN035747.D

Acq: 20 Dec 2024 18:18

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 278   | Resp: | 15847 |
| Ion Ratio | Lower | Upper |       |
| 278       | 100   |       |       |
| 139       | 16.8  | 14.2  | 21.4  |
| 279       | 26.9  | 20.5  | 30.7  |





#41

Benzo(g,h,i)perylene

Concen: 0.432 ng

RT: 25.675 min Scan# 31

Delta R.T. -0.003 min

Lab File: BN035747.D

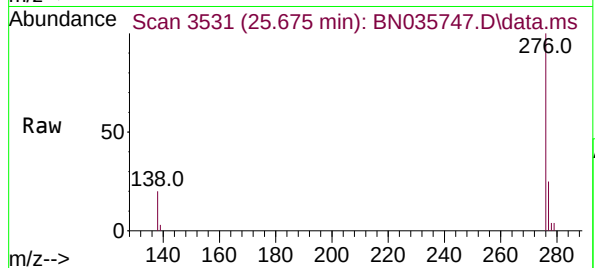
Acq: 20 Dec 2024 18:18

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC



Tgt Ion:276 Resp: 1699

Ion Ratio Lower Upper

276 100

277 24.6 19.9 29.9

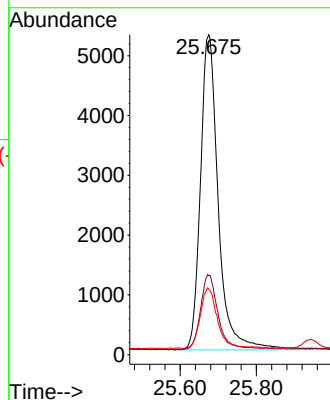
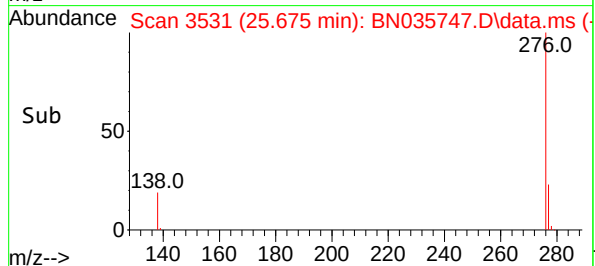
138 20.4 17.8 26.8

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 12/23/2024

Supervised By :mohammad ahmed 12/24/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN121924\  
 Data File : BN035747.D  
 Acq On : 20 Dec 2024 18:18  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 38 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 LabSampleId :  
 SSTDCCC0.4

Quant Time: Dec 21 01:42:41 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Dec 19 23:06:19 2024  
 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   | 202#  | 0.00     |
| 2       | 1,4-Dioxane                | 0.382 | 0.448 | -17.3 | 241#  | 0.00     |
| 3       | n-Nitrosodimethylamine     | 0.319 | 0.014 | 95.6# | 8#    | -0.04    |
| 4 S     | 2-Fluorophenol             | 1.001 | 0.002 | 99.8# | 0#    | -0.01    |
| 5 S     | Phenol-d6                  | 1.204 | 0.025 | 97.9# | 4#    | 0.00     |
| 6       | bis(2-Chloroethyl)ether    | 1.012 | 1.045 | -3.3  | 213#  | 0.00     |
| 7 I     | Naphthalene-d8             | 1.000 | 1.000 | 0.0   | 218#  | -0.01    |
| 8 S     | Nitrobenzene-d5            | 0.244 | 0.005 | 98.0# | 4#    | 0.00     |
| 9       | Naphthalene                | 1.055 | 1.090 | -3.3  | 227#  | 0.00     |
| 10      | Hexachlorobutadiene        | 0.243 | 0.276 | -13.6 | 243#  | -0.01    |
| 11 SURR | 2-Methylnaphthalene-d10    | 0.626 | 0.618 | 1.3   | 218#  | 0.00     |
| 12      | 2-Methylnaphthalene        | 0.755 | 0.732 | 3.0   | 216#  | 0.00     |
| 13 I    | Acenaphthene-d10           | 1.000 | 1.000 | 0.0   | 185#  | -0.01    |
| 14 S    | 2,4,6-Tribromophenol       | 0.284 | 0.001 | 99.6# | 1#    | -0.01    |
| 15 S    | 2-Fluorobiphenyl           | 1.512 | 0.002 | 99.9# | 0#    | 0.00     |
| 16      | Acenaphthylene             | 1.680 | 1.701 | -1.3  | 197#  | -0.01    |
| 17      | Acenaphthene               | 1.115 | 1.163 | -4.3  | 198#  | -0.01    |
| 18      | Fluorene                   | 1.596 | 1.468 | 8.0   | 176#  | -0.01    |
| 19 I    | Phenanthrene-d10           | 1.000 | 1.000 | 0.0   | 147   | 0.00     |
| 20      | 4,6-Dinitro-2-methylphenol | 0.039 | 0.012 | 69.2# | 50#   | 0.00     |
| 21      | 4-Bromophenyl-phenylether  | 0.234 | 0.229 | 2.1   | 149   | -0.01    |
| 22      | Hexachlorobenzene          | 0.275 | 0.316 | -14.9 | 170#  | -0.01    |
| 23      | Atrazine                   | 0.167 | 0.002 | 98.8# | 2#    | 0.00     |
| 24      | Pentachlorophenol          | 0.120 | 0.095 | 20.8  | 147   | 0.00     |
| 25      | Phenanthrene               | 1.099 | 1.108 | -0.8  | 153#  | -0.01    |
| 26      | Anthracene                 | 0.994 | 1.015 | -2.1  | 159#  | 0.00     |
| 27 SURR | Fluoranthene-d10           | 1.134 | 1.034 | 8.8   | 141   | 0.00     |
| 28      | Fluoranthene               | 1.481 | 1.309 | 11.6  | 136   | 0.00     |
| 29 I    | Chrysene-d12               | 1.000 | 1.000 | 0.0   | 125   | 0.00     |
| 30      | Pyrene                     | 1.477 | 1.673 | -13.3 | 141   | 0.00     |
| 31 S    | Terphenyl-d14              | 0.789 | 0.003 | 99.6# | 0#    | 0.00     |
| 32      | Benzo(a)anthracene         | 1.399 | 1.377 | 1.6   | 127   | 0.00     |
| 33      | Chrysene                   | 1.443 | 1.544 | -7.0  | 134   | 0.00     |
| 34      | Bis(2-ethylhexyl)phthalate | 0.553 | 0.631 | -14.1 | 152#  | 0.00     |
| 35 I    | Perylene-d12               | 1.000 | 1.000 | 0.0   | 113   | 0.00     |
| 36      | Indeno(1,2,3-cd)pyrene     | 1.564 | 1.730 | -10.6 | 127   | 0.00     |
| 37      | Benzo(b)fluoranthene       | 1.463 | 1.802 | -23.2 | 154#  | 0.00     |
| 38      | Benzo(k)fluoranthene       | 1.440 | 1.569 | -9.0  | 126   | 0.00     |
| 39 C    | Benzo(a)pyrene             | 1.205 | 1.282 | -6.4  | 126   | 0.00     |
| 40      | Dibenzo(a,h)anthracene     | 1.234 | 1.299 | -5.3  | 122   | 0.00     |
| 41      | Benzo(g,h,i)perylene       | 1.289 | 1.393 | -8.1  | 126   | 0.00     |

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN121924\  
 Data File : BN035747.D  
 Acq On : 20 Dec 2024 18:18  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 38 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 LabSampleId :  
 SSTDCCC0.4

Quant Time: Dec 21 01:42:41 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Dec 19 23:06:19 2024  
 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    | 202   | 0.00     |
| 2       | 1,4-Dioxane                | 0.400  | 0.469 | -17.2  | 241   | 0.00     |
| 3       | n-Nitrosodimethylamine     | 0.400  | 0.017 | 95.8#  | 8     | -0.04    |
| 4 S     | 2-Fluorophenol             | 0.400  | 0.001 | 99.8#  | 0     | -0.01    |
| 5 S     | Phenol-d6                  | 0.400  | 0.008 | 98.0#  | 4     | 0.00     |
| 6       | bis(2-Chloroethyl)ether    | 0.400  | 0.413 | -3.2   | 213   | 0.00     |
| 7 I     | Naphthalene-d8             | 0.400  | 0.400 | 0.0    | 218   | -0.01    |
| 8 S     | Nitrobenzene-d5            | 0.400  | 0.008 | 98.0#  | 4     | 0.00     |
| 9       | Naphthalene                | 0.400  | 0.413 | -3.2   | 227   | 0.00     |
| 10      | Hexachlorobutadiene        | 0.400  | 0.453 | -13.2  | 243   | -0.01    |
| 11 SURR | 2-Methylnaphthalene-d10    | 0.400  | 0.395 | 1.3    | 218   | 0.00     |
| 12      | 2-Methylnaphthalene        | 0.400  | 0.388 | 3.0    | 216   | 0.00     |
| 13 I    | Acenaphthene-d10           | 0.400  | 0.400 | 0.0    | 185   | -0.01    |
| 14 S    | 2,4,6-Tribromophenol       | 0.400  | 0.002 | 99.5#  | 1     | -0.01    |
| 15 S    | 2-Fluorobiphenyl           | 0.400  | 0.000 | 100.0# | 0     | 0.00     |
| 16      | Acenaphthylene             | 0.400  | 0.405 | -1.3   | 197   | -0.01    |
| 17      | Acenaphthene               | 0.400  | 0.417 | -4.2   | 198   | -0.01    |
| 18      | Fluorene                   | 0.400  | 0.368 | 8.0    | 176   | -0.01    |
| 19 I    | Phenanthrene-d10           | 0.400  | 0.400 | 0.0    | 147   | 0.00     |
| 20      | 4,6-Dinitro-2-methylphenol | 0.400  | 0.122 | 69.5#  | 50    | 0.00     |
| 21      | 4-Bromophenyl-phenylether  | 0.400  | 0.391 | 2.3    | 149   | -0.01    |
| 22      | Hexachlorobenzene          | 0.400  | 0.460 | -15.0  | 170   | -0.01    |
| 23      | Atrazine                   | 0.400  | 0.005 | 98.8#  | 2     | 0.00     |
| 24      | Pentachlorophenol          | 0.400  | 0.319 | 20.3   | 147   | 0.00     |
| 25      | Phenanthrene               | 0.400  | 0.403 | -0.8   | 153   | -0.01    |
| 26      | Anthracene                 | 0.400  | 0.408 | -2.0   | 159   | 0.00     |
| 27 SURR | Fluoranthene-d10           | 0.400  | 0.365 | 8.8    | 141   | 0.00     |
| 28      | Fluoranthene               | 0.400  | 0.353 | 11.8   | 136   | 0.00     |
| 29 I    | Chrysene-d12               | 0.400  | 0.400 | 0.0    | 125   | 0.00     |
| 30      | Pyrene                     | 0.400  | 0.453 | -13.2  | 141   | 0.00     |
| 31 S    | Terphenyl-d14              | 0.400  | 0.001 | 99.8#  | 0     | 0.00     |
| 32      | Benzo(a)anthracene         | 0.400  | 0.394 | 1.5    | 127   | 0.00     |
| 33      | Chrysene                   | 0.400  | 0.428 | -7.0   | 134   | 0.00     |
| 34      | Bis(2-ethylhexyl)phthalate | 0.400  | 0.456 | -14.0  | 152   | 0.00     |
| 35 I    | Perylene-d12               | 0.400  | 0.400 | 0.0    | 113   | 0.00     |
| 36      | Indeno(1,2,3-cd)pyrene     | 0.400  | 0.442 | -10.5  | 127   | 0.00     |
| 37      | Benzo(b)fluoranthene       | 0.400  | 0.493 | -23.2  | 154   | 0.00     |
| 38      | Benzo(k)fluoranthene       | 0.400  | 0.436 | -9.0   | 126   | 0.00     |
| 39 C    | Benzo(a)pyrene             | 0.400  | 0.425 | -6.2   | 126   | 0.00     |
| 40      | Dibenzo(a,h)anthracene     | 0.400  | 0.421 | -5.2   | 122   | 0.00     |
| 41      | Benzo(g,h,i)perylene       | 0.400  | 0.432 | -8.0   | 126   | 0.00     |

(#) = Out of Range

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



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

7C

## SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P5284 SAS No.: P5284 SDG No.: P5284

Instrument ID: BNA\_N Calibration Date/Time: 12/20/2024 19:33

Lab File ID: BN035749.D Init. Calib. Date(s): 11/27/2024 11/27/2024

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 15:34 19:09

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

| COMPOUND                | RRF   | RRF0.4 | MIN<br>RRF | %D    | MAX%D |
|-------------------------|-------|--------|------------|-------|-------|
| 2-Methylnaphthalene-d10 | 0.626 | 0.622  |            | -0.6  | 20.0  |
| Fluoranthene-d10        | 1.134 | 1.074  |            | -5.3  | 20.0  |
| 2-Fluorophenol          | 1.001 | 1.021  |            | 2.0   | 20.0  |
| Phenol-d6               | 1.204 | 1.178  |            | -2.2  | 20.0  |
| Nitrobenzene-d5         | 0.244 | 0.294  |            | 20.5  | 20.0  |
| 2-Fluorobiphenyl        | 1.512 | 1.560  |            | 3.2   | 20.0  |
| 2,4,6-Tribromophenol    | 0.284 | 0.235  |            | -17.3 | 20.0  |
| Terphenyl-d14           | 0.789 | 0.891  |            | 12.9  | 20.0  |
| 1,4-Dioxane             | 0.382 | 0.445  |            | 16.5  | 20.0  |

All other compounds must meet a minimum RRF of 0.010.



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN121924\  
 Data File : BN035749.D  
 Acq On : 20 Dec 2024 19:33  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 40 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4

Manual Integrations  
 APPROVED

Reviewed By :Jagrut Upadhyay 12/23/2024  
 Supervised By :mohammad ahmed 12/24/2024

Quant Time: Dec 21 01:43:03 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Dec 19 23:06:19 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.272  | 152  | 2885     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.009 | 136  | 7460     | 0.400 | ng    | -0.01    |
| 13) Acenaphthene-d10          | 13.925 | 164  | 4592     | 0.400 | ng    | -0.01    |
| 19) Phenanthrene-d10          | 16.698 | 188  | 9182     | 0.400 | ng    | # 0.00   |
| 29) Chrysene-d12              | 20.956 | 240  | 7719     | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.038 | 264  | 7943     | 0.400 | ng    | # 0.00   |
|                               |        |      |          |       |       |          |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 4.932  | 112  | 2946     | 0.408 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.484  | 99   | 3398     | 0.391 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.408  | 82   | 2193m    | 0.481 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.616 | 152  | 4637     | 0.397 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.453 | 330  | 1079     | 0.331 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.539 | 172  | 7163     | 0.413 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 18.761 | 212  | 9858     | 0.379 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.393 | 244  | 6880     | 0.452 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| Target Compounds              |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 2.982  | 88   | 1284     | 0.466 | ng    | 96       |
| 3) n-Nitrosodimethylamine     | 3.271  | 42   | 1037     | 0.451 | ng    | # 96     |
| 6) bis(2-Chloroethyl)ether    | 6.723  | 93   | 2618m    | 0.359 | ng    |          |
| 9) Naphthalene                | 10.063 | 128  | 8115     | 0.412 | ng    | 99       |
| 10) Hexachlorobutadiene       | 10.351 | 225  | 2104     | 0.464 | ng    | # 98     |
| 12) 2-Methylnaphthalene       | 11.697 | 142  | 5318     | 0.378 | ng    | 99       |
| 16) Acenaphthylene            | 13.636 | 152  | 7458     | 0.387 | ng    | 100      |
| 17) Acenaphthene              | 13.989 | 154  | 5179     | 0.405 | ng    | 99       |
| 18) Fluorene                  | 14.994 | 166  | 6721     | 0.367 | ng    | 100      |
| 20) 4,6-Dinitro-2-methylph... | 15.133 | 198  | 99       | 0.110 | ng    | # 1      |
| 21) 4-Bromophenyl-phenylether | 15.904 | 248  | 2111     | 0.393 | ng    | # 80     |
| 22) Hexachlorobenzene         | 16.003 | 284  | 3074     | 0.487 | ng    | 96       |
| 23) Atrazine                  | 16.202 | 200  | 1584     | 0.414 | ng    | 97       |
| 24) Pentachlorophenol         | 16.376 | 266  | 1014     | 0.370 | ng    | 87       |
| 25) Phenanthrene              | 16.748 | 178  | 9861     | 0.391 | ng    | 100      |
| 26) Anthracene                | 16.835 | 178  | 8624     | 0.378 | ng    | 99       |
| 28) Fluoranthene              | 18.789 | 202  | 12002    | 0.353 | ng    | 100      |
| 30) Pyrene                    | 19.156 | 202  | 12468    | 0.438 | ng    | 99       |
| 32) Benzo(a)anthracene        | 20.938 | 228  | 9472     | 0.351 | ng    | 99       |
| 33) Chrysene                  | 20.992 | 228  | 11952    | 0.429 | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 20.902 | 149  | 4632     | 0.434 | ng    | # 98     |
| 36) Indeno(1,2,3-cd)pyrene    | 25.067 | 276  | 12531    | 0.404 | ng    | 96       |
| 37) Benzo(b)fluoranthene      | 22.427 | 252  | 13708    | 0.472 | ng    | 95       |
| 38) Benzo(k)fluoranthene      | 22.468 | 252  | 11604m   | 0.406 | ng    |          |
| 39) Benzo(a)pyrene            | 22.950 | 252  | 9304     | 0.389 | ng    | # 91     |
| 40) Dibenzo(a,h)anthracene    | 25.082 | 278  | 9530     | 0.389 | ng    | 95       |
| 41) Benzo(g,h,i)perylene      | 25.675 | 276  | 11213    | 0.438 | ng    | 99       |
| -----                         |        |      |          |       |       |          |

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

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN121924\  
Data File : BN035749.D  
Acq On : 20 Dec 2024 19:33  
Operator : RC/JU  
Sample : SSTDCCC0.4  
Misc :  
ALS Vial : 40 Sample Multiplier: 1

## Instrument :

BNA\_N

## ClientSampleId :

SSTDCCC0.4

## Manual Integrations

## APPROVED

Reviewed By :Jagrut Upadhyay 12/23/2024  
Supervised By :mohammad ahmed 12/24/2024

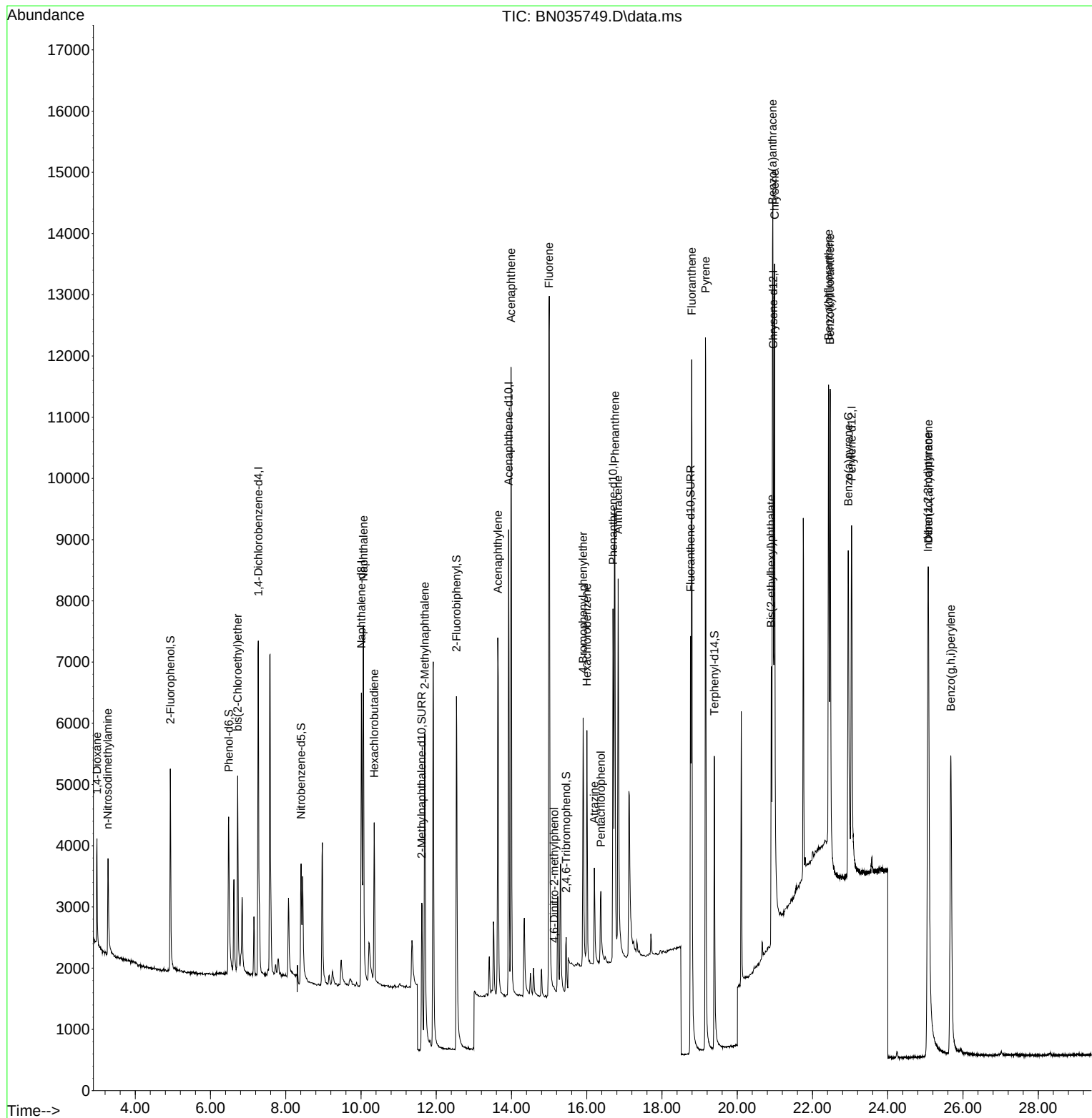
Quant Time: Dec 21 01:43:03 2024

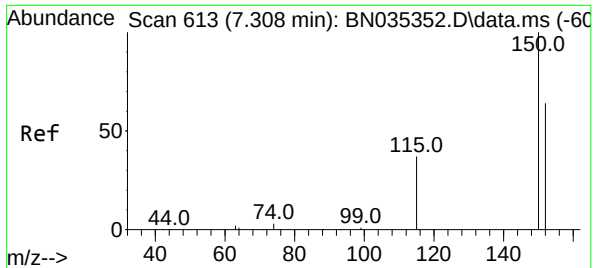
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Thu Dec 19 23:06:19 2024

Response via : Initial Calibration





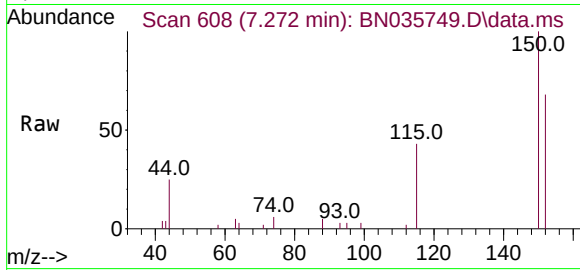
#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.272 min Scan# 60  
Delta R.T. -0.000 min  
Lab File: BN035749.D  
Acq: 20 Dec 2024 19:33

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

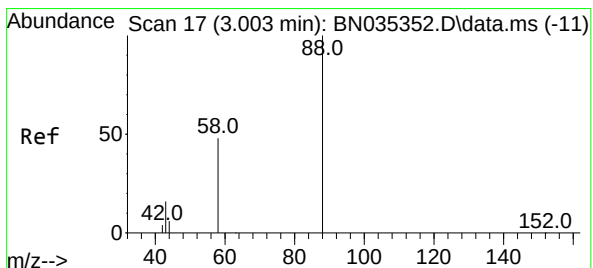
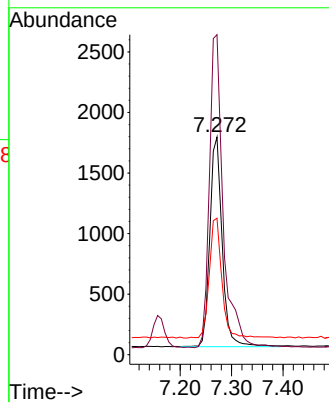
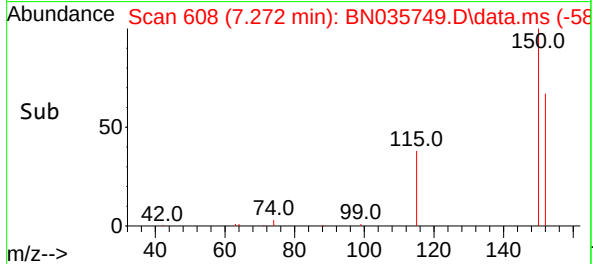


Tgt Ion:152 Resp: 288  
Ion Ratio Lower Upper  
152 100  
150 147.0 124.0 186.0  
115 62.7 49.6 74.4

Manual Integrations

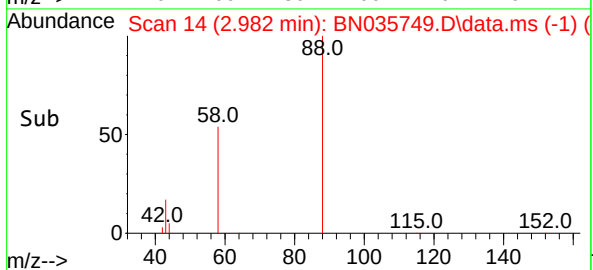
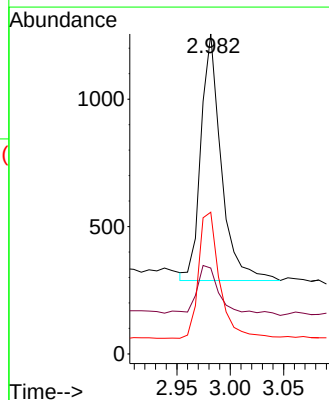
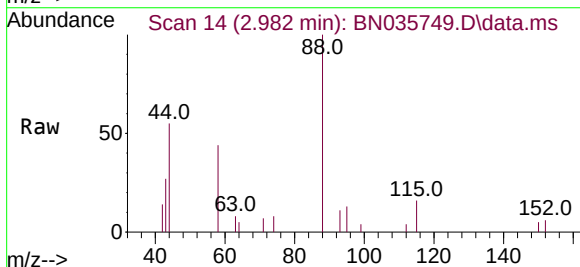
APPROVED

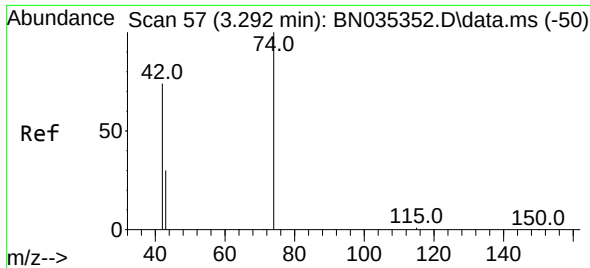
Reviewed By :Jagrut Upadhyay 12/23/2024  
Supervised By :mohammad ahmed 12/24/2024



#2  
1,4-Dioxane  
Concen: 0.466 ng  
RT: 2.982 min Scan# 14  
Delta R.T. -0.000 min  
Lab File: BN035749.D  
Acq: 20 Dec 2024 19:33

Tgt Ion: 88 Resp: 1284  
Ion Ratio Lower Upper  
88 100  
43 24.5 17.2 25.8  
58 53.3 44.5 66.7





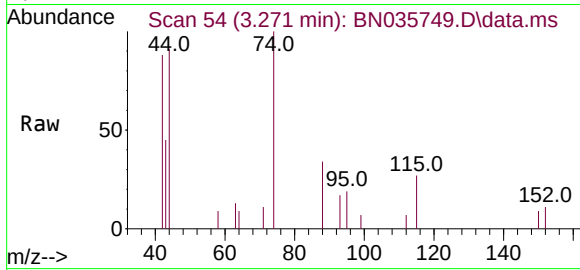
#3  
n-Nitrosodimethylamine  
Concen: 0.451 ng  
RT: 3.271 min Scan# 54  
Delta R.T. -0.007 min  
Lab File: BN035749.D  
Acq: 20 Dec 2024 19:33

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

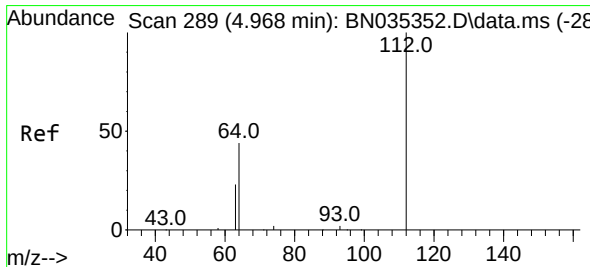
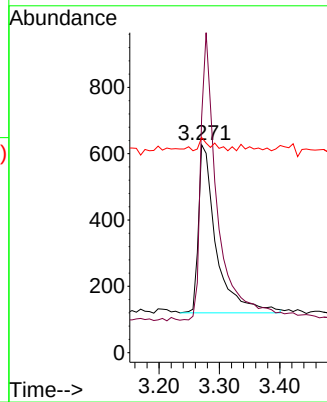
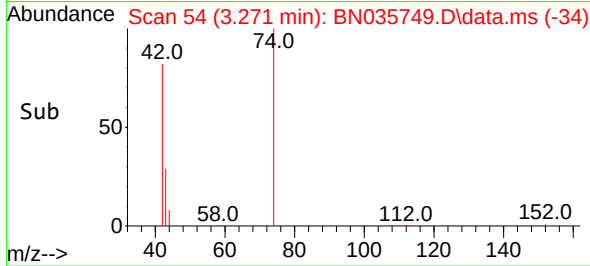


Tgt Ion: 42 Resp: 103  
Ion Ratio Lower Upper  
42 100  
74 160.8 124.9 187.3  
44 7.0 2.2 3.4

Manual Integrations

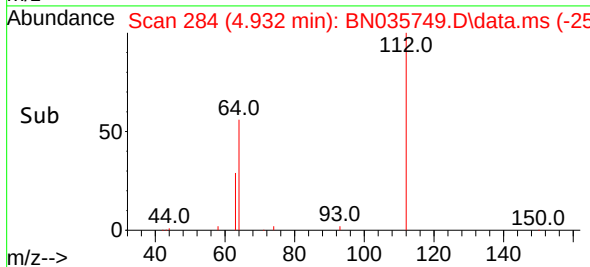
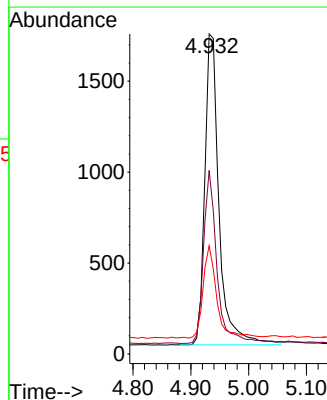
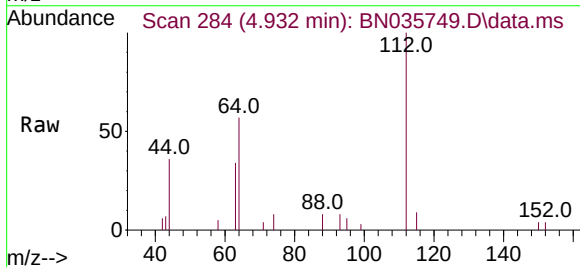
APPROVED

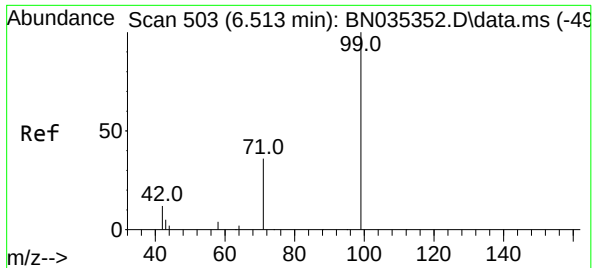
Reviewed By :Jagrut Upadhyay 12/23/2024  
Supervised By :mohammad ahmed 12/24/2024



#4  
2-Fluorophenol  
Concen: 0.408 ng  
RT: 4.932 min Scan# 284  
Delta R.T. -0.007 min  
Lab File: BN035749.D  
Acq: 20 Dec 2024 19:33

Tgt Ion:112 Resp: 2946  
Ion Ratio Lower Upper  
112 100  
64 52.4 39.8 59.8  
63 28.5 21.0 31.6





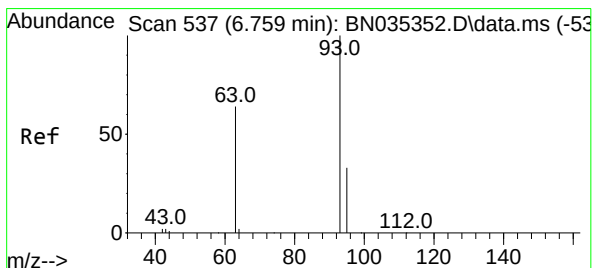
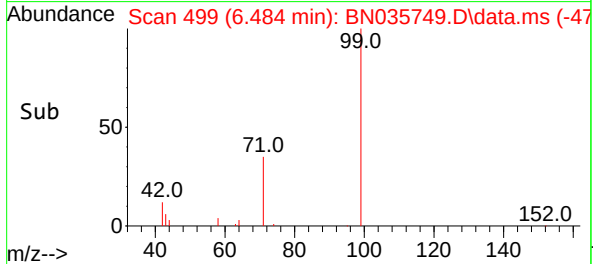
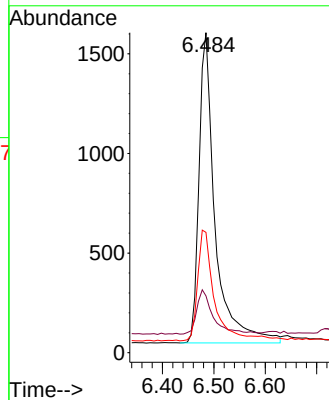
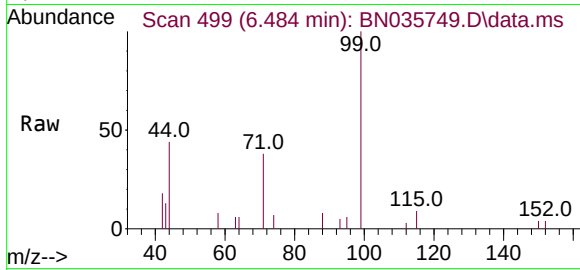
#5  
Phenol-d6  
Concen: 0.391 ng  
RT: 6.484 min Scan# 499  
Delta R.T. -0.007 min  
Lab File: BN035749.D  
Acq: 20 Dec 2024 19:33

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 99      | 100   |       |       |
| 42      | 14.6  | 11.4  | 17.2  |
| 71      | 37.5  | 29.3  | 43.9  |

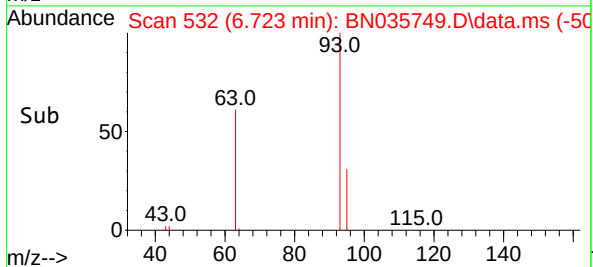
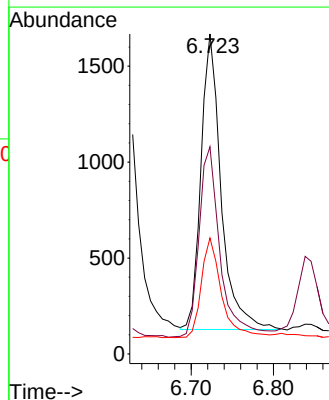
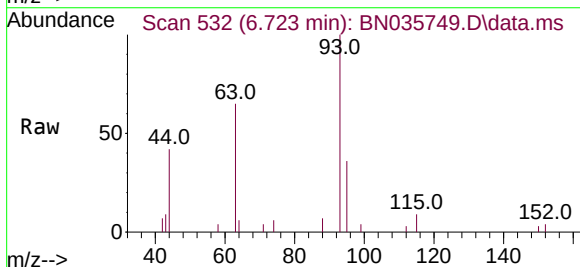
Manual Integrations  
**APPROVED**

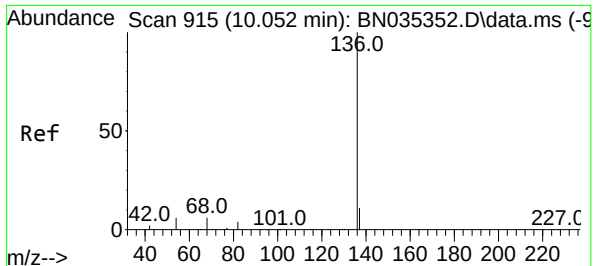
Reviewed By :Jagrut Upadhyay 12/23/2024  
Supervised By :mohammad ahmed 12/24/2024



#6  
bis(2-Chloroethyl)ether  
Concen: 0.359 ng m  
RT: 6.723 min Scan# 532  
Delta R.T. -0.007 min  
Lab File: BN035749.D  
Acq: 20 Dec 2024 19:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 93      | 100   |       |       |
| 63      | 67.8  | 50.4  | 75.6  |
| 95      | 33.9  | 25.7  | 38.5  |





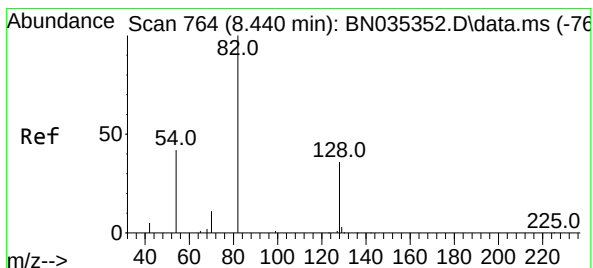
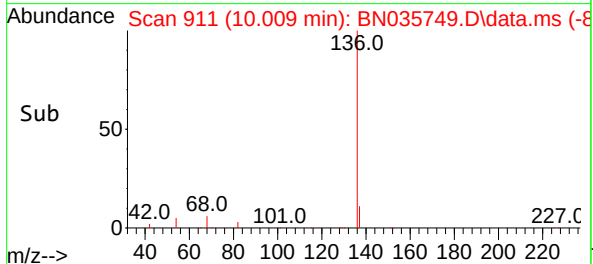
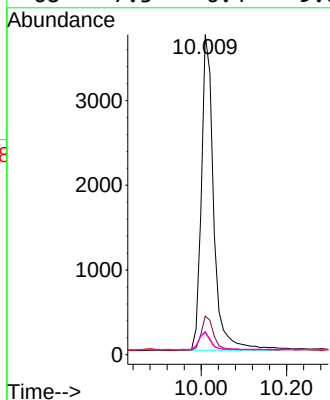
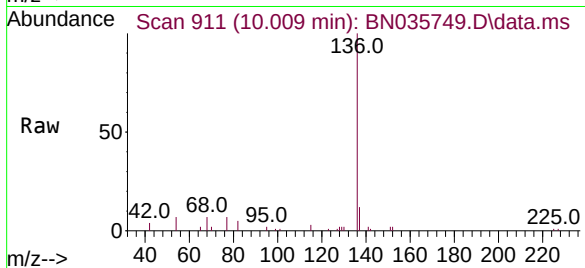
#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.009 min Scan# 915  
Delta R.T. -0.011 min  
Lab File: BN035749.D  
Acq: 20 Dec 2024 19:33

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

Tgt Ion: 136 Resp: 7460  
Ion Ratio Lower Upper  
136 100  
137 12.0 10.2 15.2  
54 6.9 6.1 9.1  
68 7.3 6.4 9.6

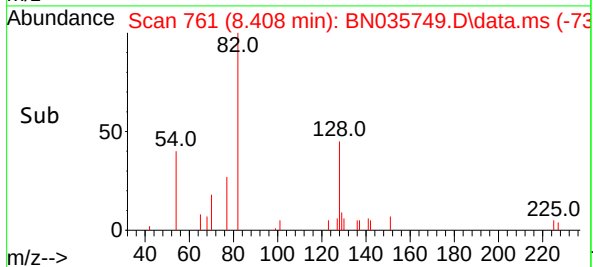
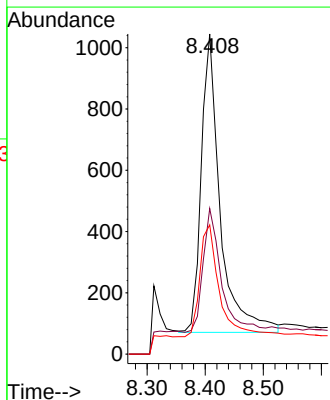
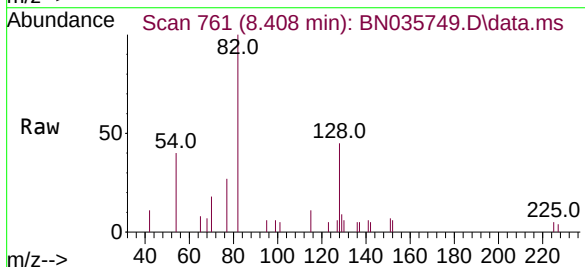
Manual Integrations  
APPROVED

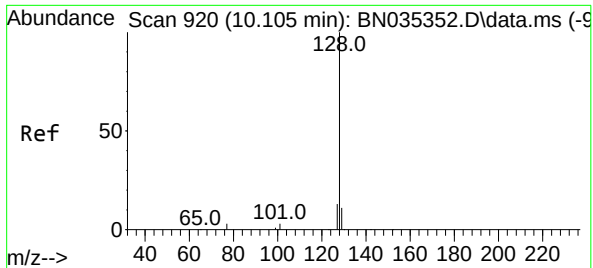
Reviewed By :Jagrut Upadhyay 12/23/2024  
Supervised By :mohammad ahmed 12/24/2024



#8  
Nitrobenzene-d5  
Concen: 0.481 ng m  
RT: 8.408 min Scan# 761  
Delta R.T. -0.000 min  
Lab File: BN035749.D  
Acq: 20 Dec 2024 19:33

Tgt Ion: 82 Resp: 2193  
Ion Ratio Lower Upper  
82 100  
128 45.5 33.4 50.0  
54 40.4 36.7 55.1





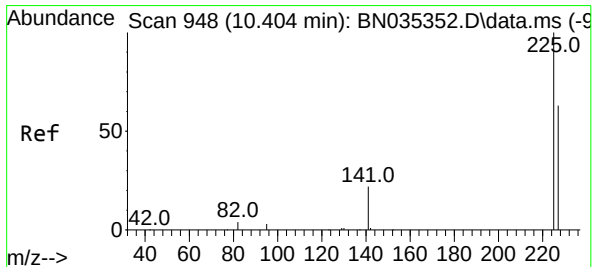
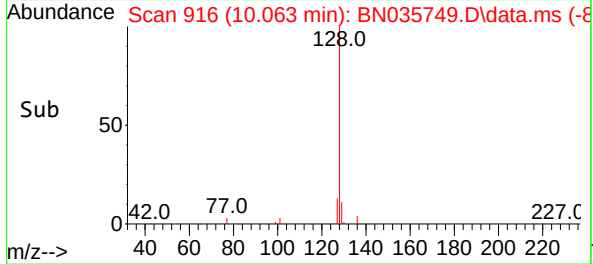
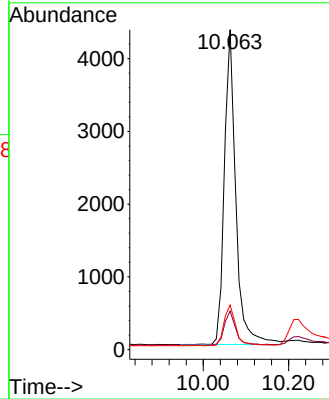
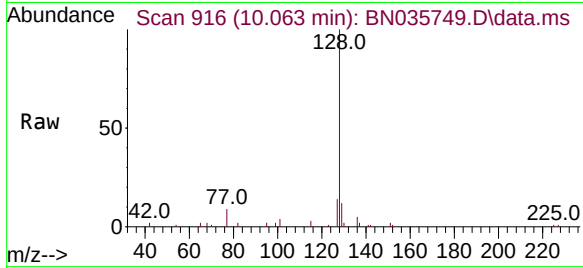
#9  
Naphthalene  
Concen: 0.412 ng  
RT: 10.063 min Scan# 916  
Delta R.T. -0.000 min  
Lab File: BN035749.D  
Acq: 20 Dec 2024 19:33

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

Tgt Ion:128 Resp: 811  
Ion Ratio Lower Upper  
128 100  
129 12.1 9.8 14.6  
127 13.9 11.4 17.2

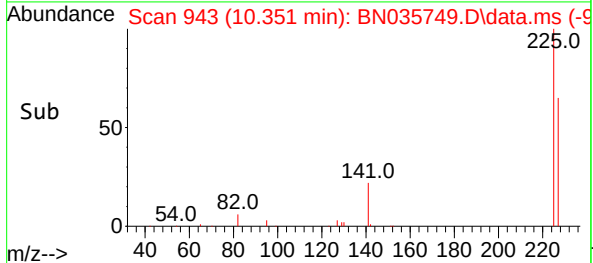
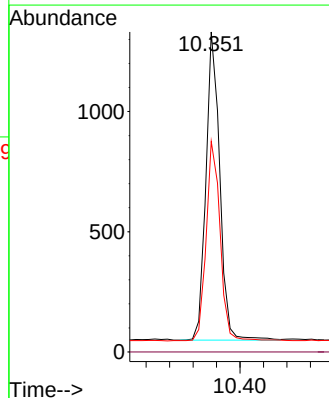
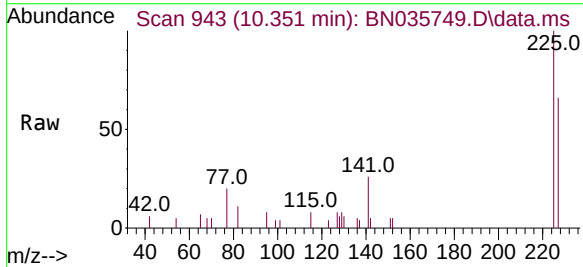
Manual Integrations  
APPROVED

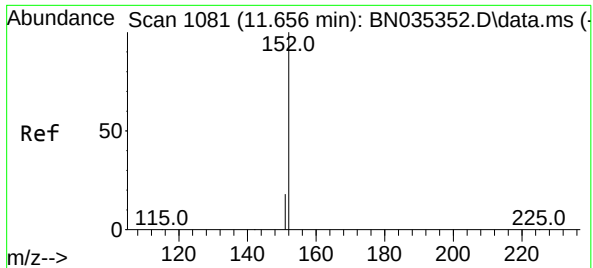
Reviewed By :Jagrut Upadhyay 12/23/2024  
Supervised By :mohammad ahmed 12/24/2024



#10  
Hexachlorobutadiene  
Concen: 0.464 ng  
RT: 10.351 min Scan# 943  
Delta R.T. -0.011 min  
Lab File: BN035749.D  
Acq: 20 Dec 2024 19:33

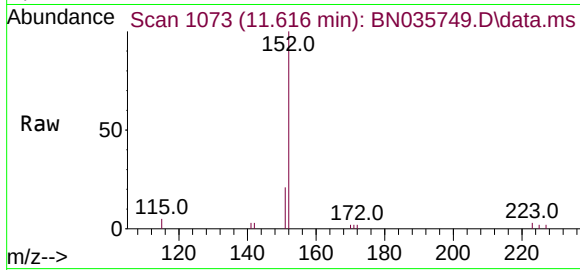
Tgt Ion:225 Resp: 2104  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 65.6 51.3 76.9





#11  
2-Methylnaphthalene-d10  
Concen: 0.397 ng  
RT: 11.616 min Scan# 1073  
Delta R.T. -0.005 min  
Lab File: BN035749.D  
Acq: 20 Dec 2024 19:33

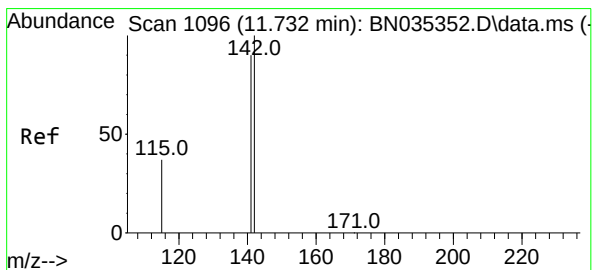
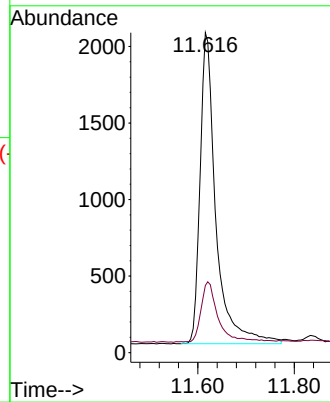
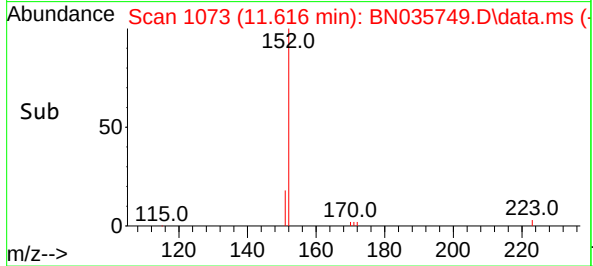
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4



Tgt Ion:152 Resp: 463  
Ion Ratio Lower Upper  
152 100  
151 21.4 16.6 25.0

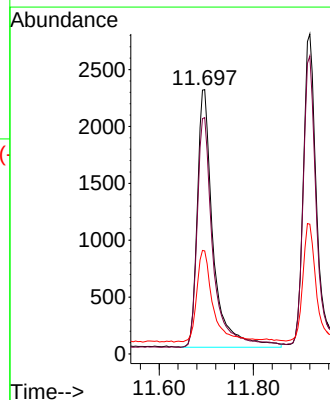
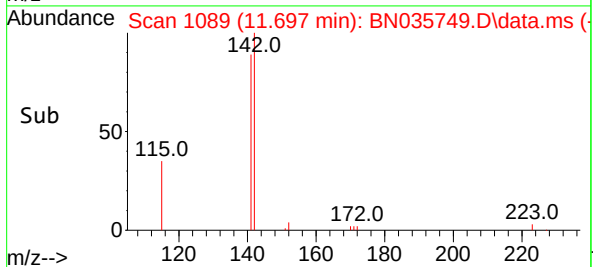
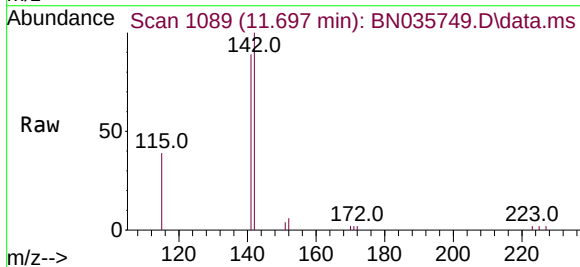
Manual Integrations  
APPROVED

Reviewed By :Jagrut Upadhyay 12/23/2024  
Supervised By :mohammad ahmed 12/24/2024

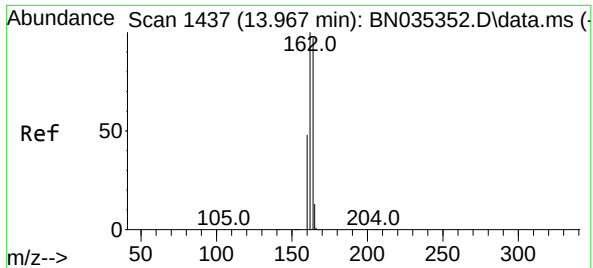


#12  
2-Methylnaphthalene  
Concen: 0.378 ng  
RT: 11.697 min Scan# 1089  
Delta R.T. -0.000 min  
Lab File: BN035749.D  
Acq: 20 Dec 2024 19:33

Tgt Ion:142 Resp: 5318  
Ion Ratio Lower Upper  
142 100  
141 89.4 72.2 108.4  
115 39.0 31.4 47.0

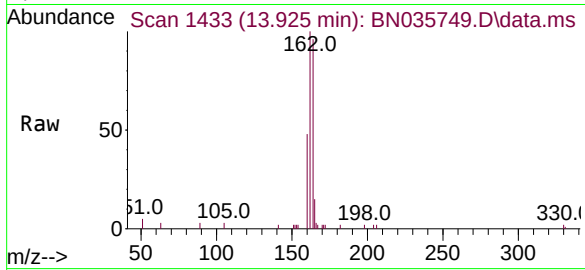






#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.925 min Scan# 1433  
Delta R.T. -0.011 min  
Lab File: BN035749.D  
Acq: 20 Dec 2024 19:33

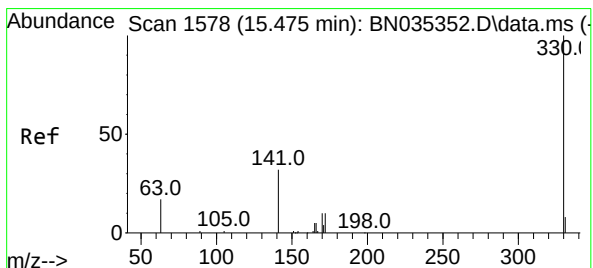
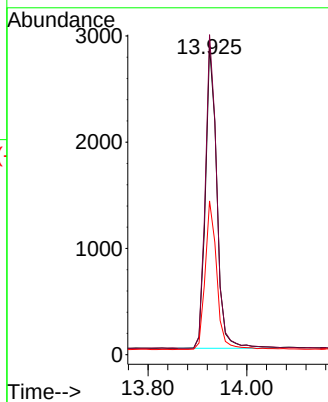
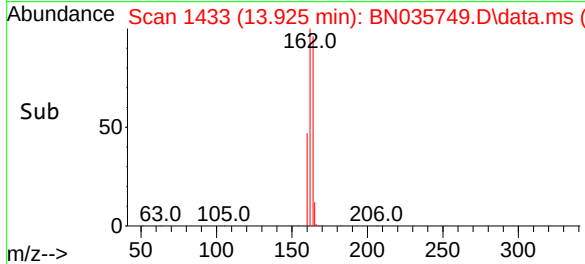
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4



Tgt Ion:164 Resp: 4592  
Ion Ratio Lower Upper  
164 100  
162 103.6 82.2 123.2  
160 49.8 40.1 60.1

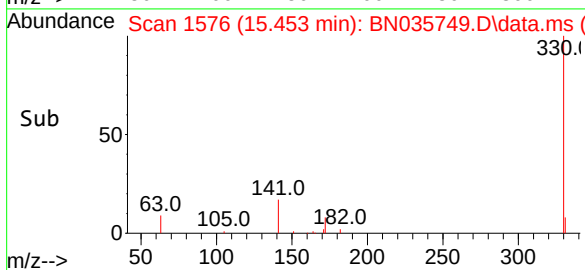
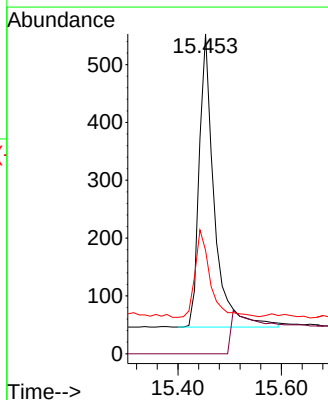
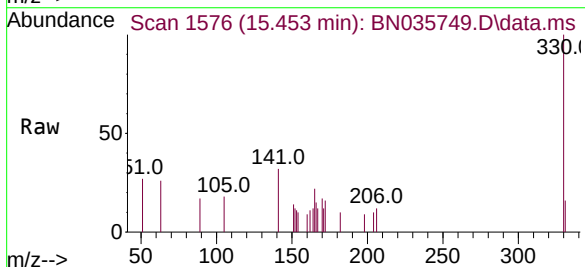
Manual Integrations  
APPROVED

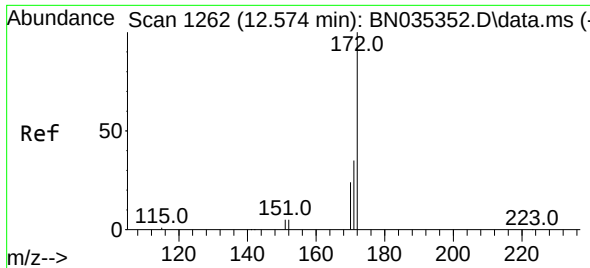
Reviewed By :Jagrut Upadhyay 12/23/2024  
Supervised By :mohammad ahmed 12/24/2024



#14  
2,4,6-Tribromophenol  
Concen: 0.331 ng  
RT: 15.453 min Scan# 1576  
Delta R.T. -0.000 min  
Lab File: BN035749.D  
Acq: 20 Dec 2024 19:33

Tgt Ion:330 Resp: 1079  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 29.6 26.6 40.0





#15

2-Fluorobiphenyl

Concen: 0.413 ng

RT: 12.539 min Scan# 1

Delta R.T. -0.005 min

Lab File: BN035749.D

Acq: 20 Dec 2024 19:33

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion:172 Resp: 716

Ion Ratio Lower Upper

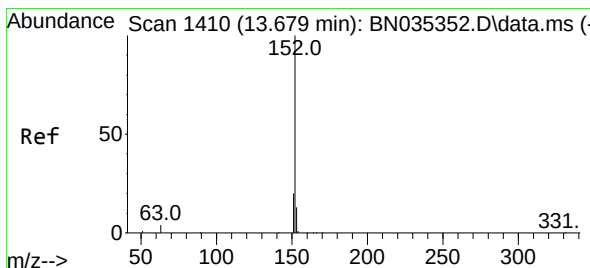
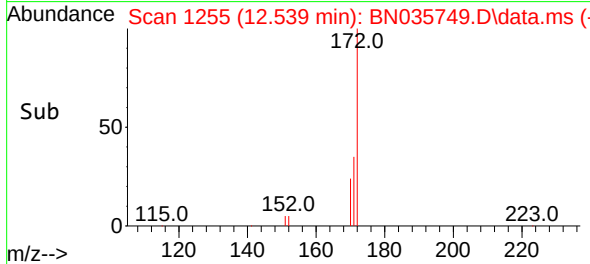
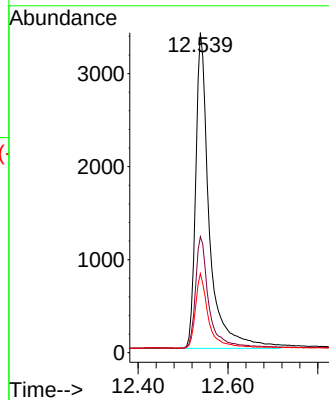
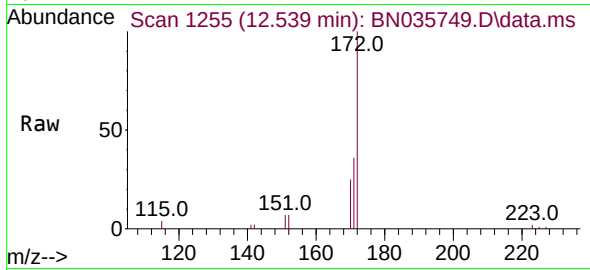
172 100

171 36.3 29.0 43.4

170 24.7 19.8 29.8

Manual Integrations

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Reviewed By :Jagrut Upadhyay 12/23/2024  
Supervised By :mohammad ahmed 12/24/2024

#16

Acenaphthylene

Concen: 0.387 ng

RT: 13.636 min Scan# 1406

Delta R.T. -0.011 min

Lab File: BN035749.D

Acq: 20 Dec 2024 19:33

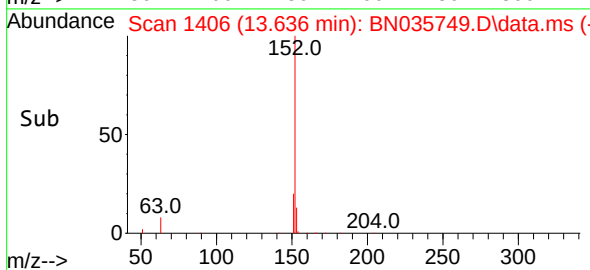
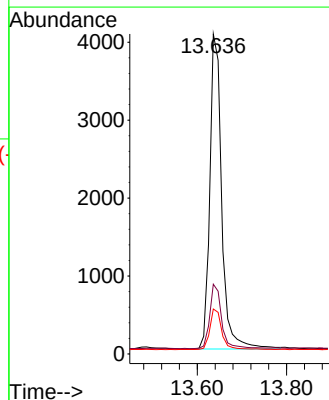
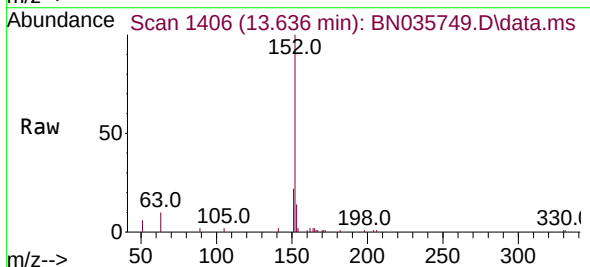
Tgt Ion:152 Resp: 7458

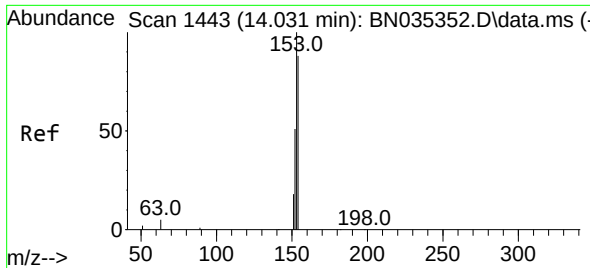
Ion Ratio Lower Upper

152 100

151 20.4 16.2 24.2

153 13.2 10.4 15.6





#17  
Acenaphthene  
Concen: 0.405 ng  
RT: 13.989 min Scan# 1443  
Delta R.T. -0.011 min  
Lab File: BN035749.D  
Acq: 20 Dec 2024 19:33

Instrument :

BNA\_N

ClientSampleId :

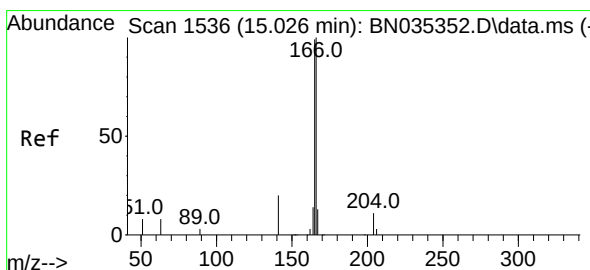
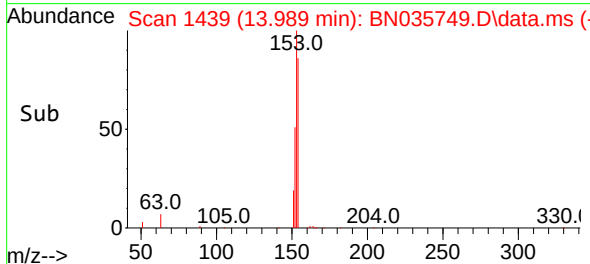
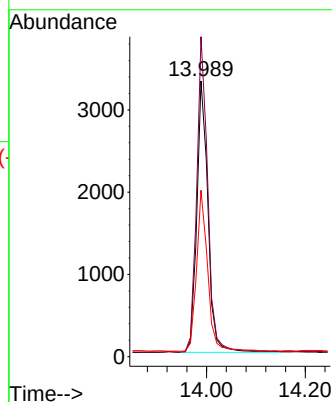
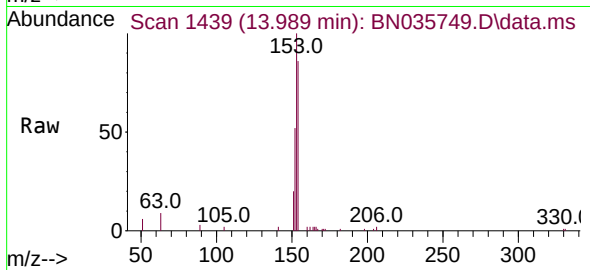
SSTDCCC0.4

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 115.5 | 92.6  | 139.0 |
| 152     | 59.2  | 49.0  | 73.6  |

Manual Integrations

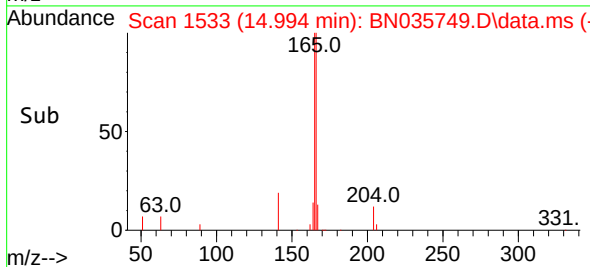
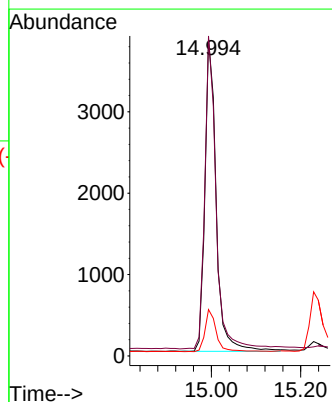
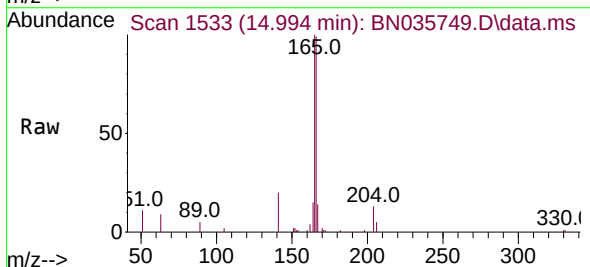
APPROVED

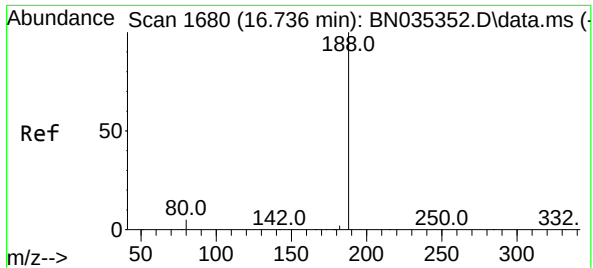
Reviewed By :Jagrut Upadhyay 12/23/2024  
Supervised By :mohammad ahmed 12/24/2024



#18  
Fluorene  
Concen: 0.367 ng  
RT: 14.994 min Scan# 1533  
Delta R.T. -0.011 min  
Lab File: BN035749.D  
Acq: 20 Dec 2024 19:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 99.7  | 79.7  | 119.5 |
| 167     | 13.6  | 10.8  | 16.2  |





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.698 min Scan# 1677

Delta R.T. -0.000 min

Lab File: BN035749.D

Acq: 20 Dec 2024 19:33

Instrument :

BNA\_N

ClientSampleId :

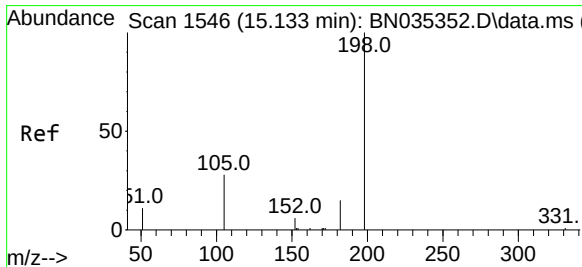
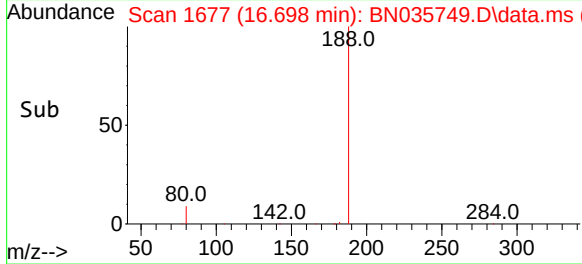
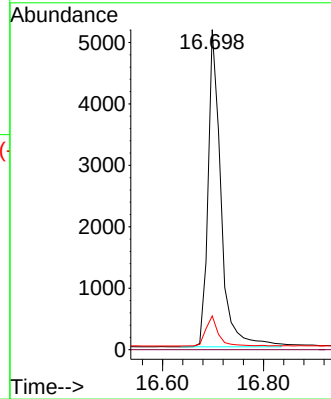
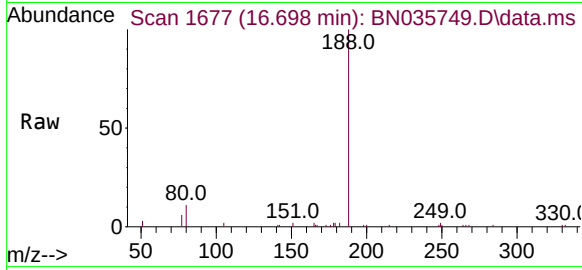
SSTDCCC0.4

|             |       |       |
|-------------|-------|-------|
| Tgt Ion:188 | Resp: | 918   |
| Ion Ratio   | Lower | Upper |
| 188         | 100   |       |
| 94          | 0.0   | 0.0   |
| 80          | 10.6  | 4.6   |

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 12/23/2024  
 Supervised By :mohammad ahmed 12/24/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 0.110 ng

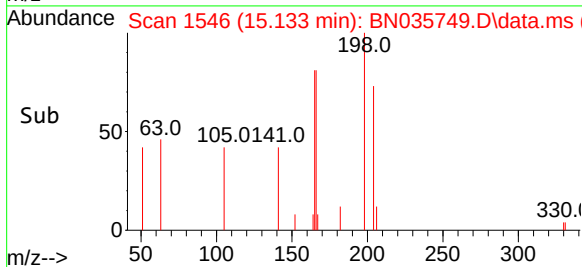
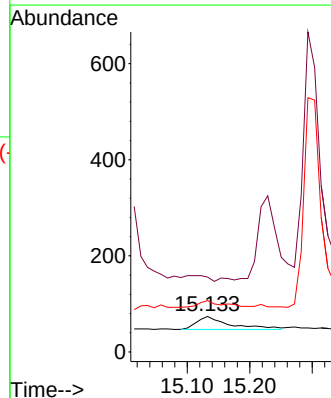
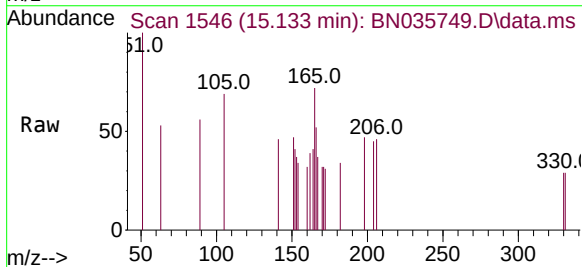
RT: 15.133 min Scan# 1546

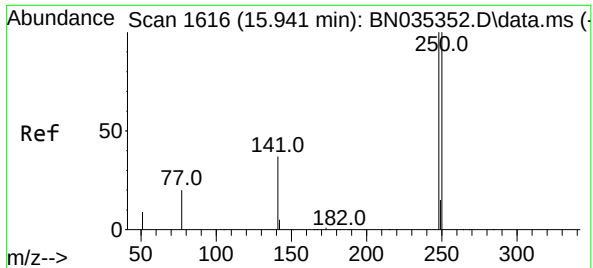
Delta R.T. 0.011 min

Lab File: BN035749.D

Acq: 20 Dec 2024 19:33

|             |       |       |
|-------------|-------|-------|
| Tgt Ion:198 | Resp: | 99    |
| Ion Ratio   | Lower | Upper |
| 198         | 100   |       |
| 51          | 210.8 | 46.5  |
| 105         | 144.6 | 45.3  |





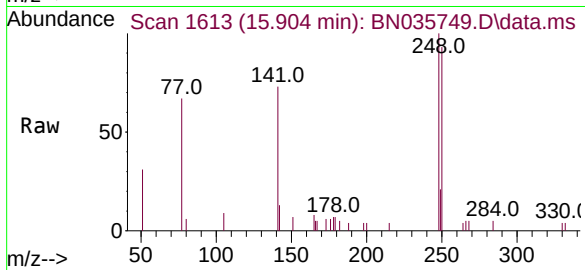
#21  
4-Bromophenyl-phenylether  
Concen: 0.393 ng  
RT: 15.904 min Scan# 1613  
Delta R.T. -0.012 min  
Lab File: BN035749.D  
Acq: 20 Dec 2024 19:33

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

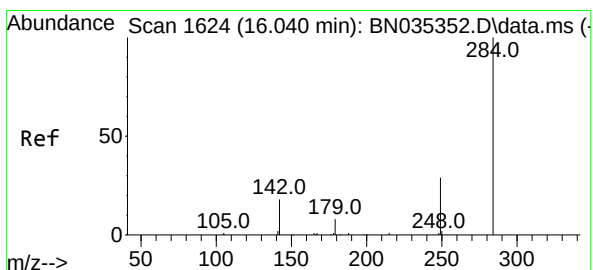
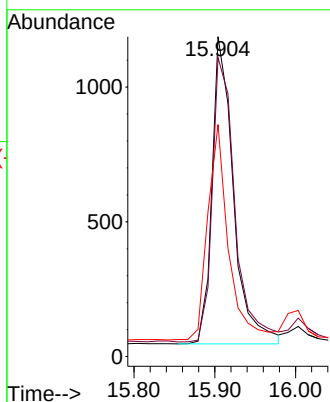
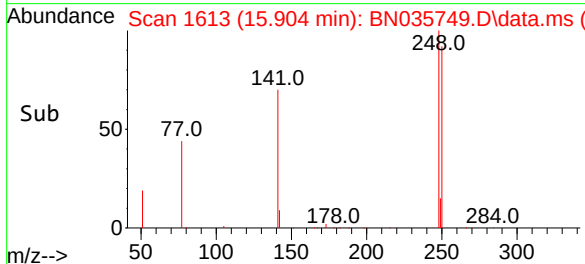


Tgt Ion:248 Resp: 211  
Ion Ratio Lower Upper  
248 100  
250 93.4 80.6 120.8  
141 72.5 31.5 47.3

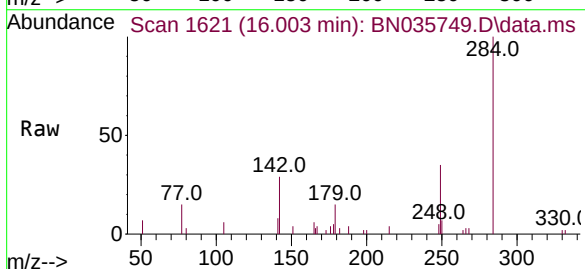
Manual Integrations

APPROVED

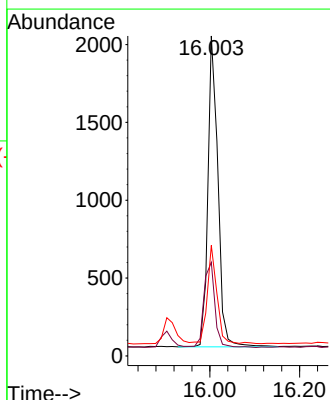
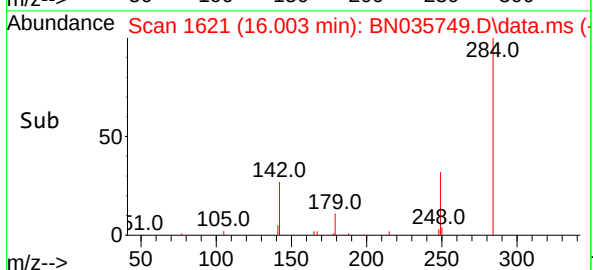
Reviewed By :Jagrut Upadhyay 12/23/2024  
Supervised By :mohammad ahmed 12/24/2024

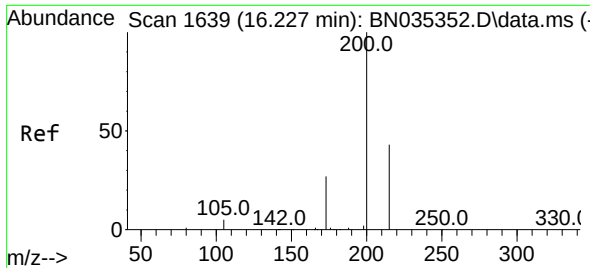


#22  
Hexachlorobenzene  
Concen: 0.487 ng  
RT: 16.003 min Scan# 1621  
Delta R.T. -0.012 min  
Lab File: BN035749.D  
Acq: 20 Dec 2024 19:33



Tgt Ion:284 Resp: 3074  
Ion Ratio Lower Upper  
284 100  
142 30.3 26.7 40.1  
249 29.7 24.6 36.8





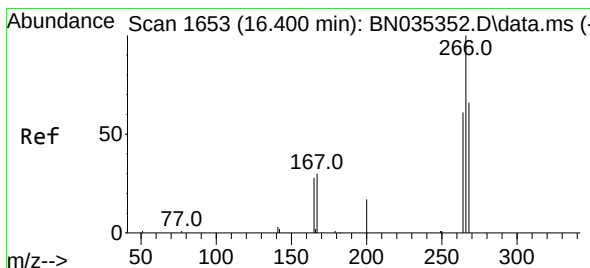
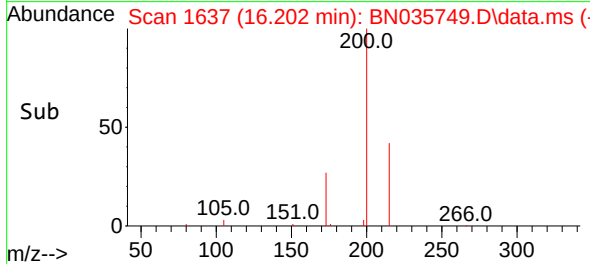
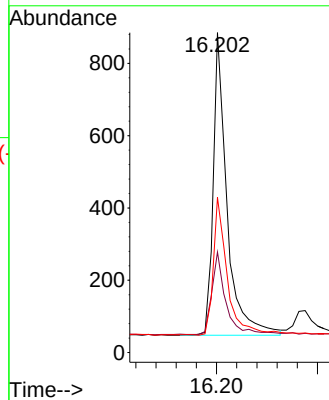
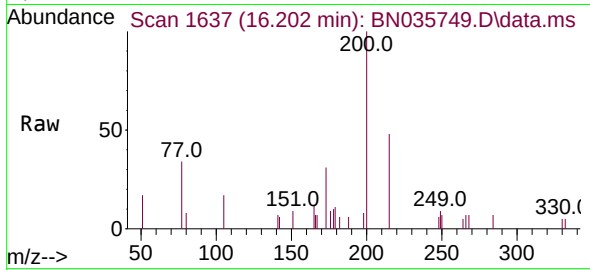
#23  
Atrazine  
Concen: 0.414 ng  
RT: 16.202 min Scan# 1637  
Delta R.T. -0.000 min  
Lab File: BN035749.D  
Acq: 20 Dec 2024 19:33

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

Tgt Ion:200 Resp: 1584  
Ion Ratio Lower Upper  
200 100  
173 31.4 24.1 36.1  
215 48.5 36.9 55.3

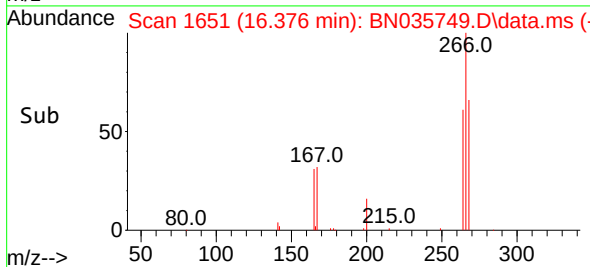
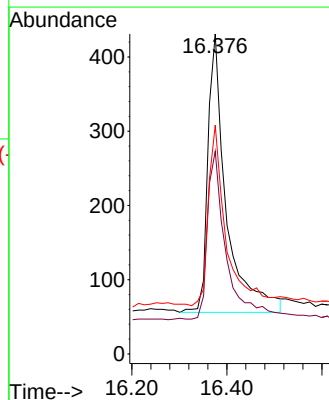
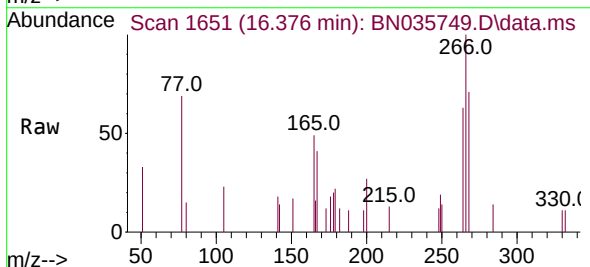
Manual Integrations  
APPROVED

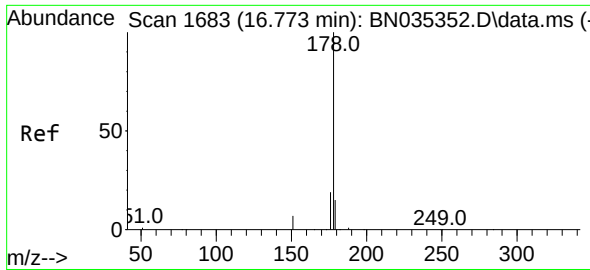
Reviewed By :Jagrut Upadhyay 12/23/2024  
Supervised By :mohammad ahmed 12/24/2024



#24  
Pentachlorophenol  
Concen: 0.370 ng  
RT: 16.376 min Scan# 1651  
Delta R.T. -0.000 min  
Lab File: BN035749.D  
Acq: 20 Dec 2024 19:33

Tgt Ion:266 Resp: 1014  
Ion Ratio Lower Upper  
266 100  
264 61.4 42.3 63.5  
268 64.0 43.3 64.9





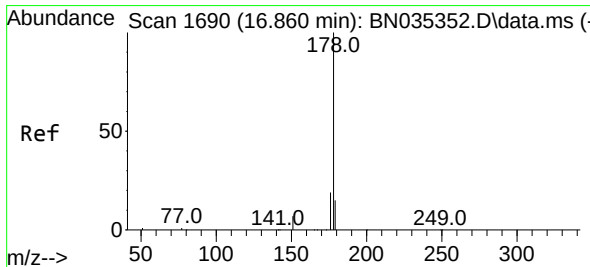
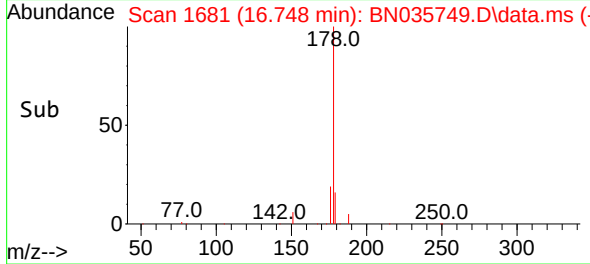
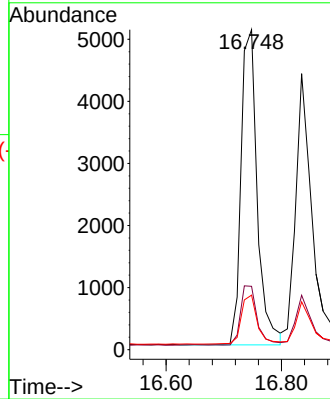
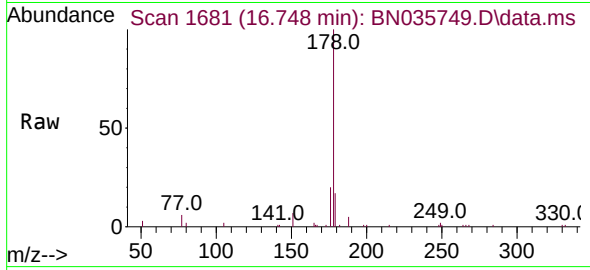
#25  
Phenanthrene  
Concen: 0.391 ng  
RT: 16.748 min Scan# 1681  
Delta R.T. -0.000 min  
Lab File: BN035749.D  
Acq: 20 Dec 2024 19:33

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

Tgt Ion:178 Resp: 986  
Ion Ratio Lower Upper  
178 100  
176 19.2 15.4 23.2  
179 15.4 12.3 18.5

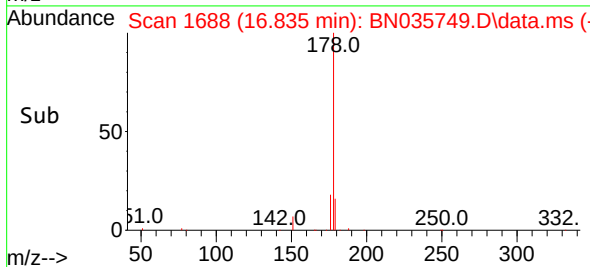
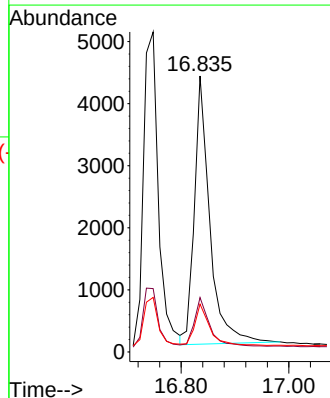
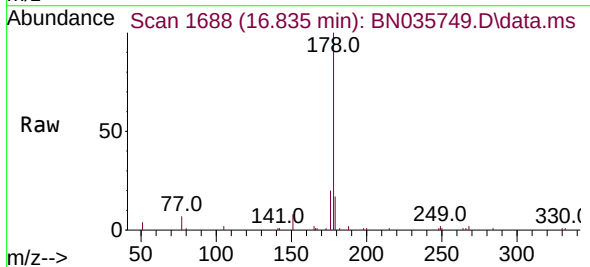
Manual Integrations  
**APPROVED**

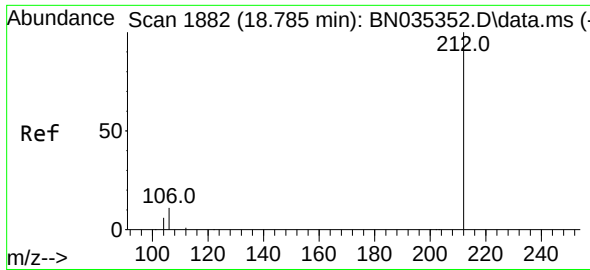
Reviewed By :Jagrut Upadhyay 12/23/2024  
Supervised By :mohammad ahmed 12/24/2024



#26  
Anthracene  
Concen: 0.378 ng  
RT: 16.835 min Scan# 1688  
Delta R.T. -0.000 min  
Lab File: BN035749.D  
Acq: 20 Dec 2024 19:33

Tgt Ion:178 Resp: 8624  
Ion Ratio Lower Upper  
178 100  
176 18.2 15.0 22.6  
179 15.3 12.6 18.8





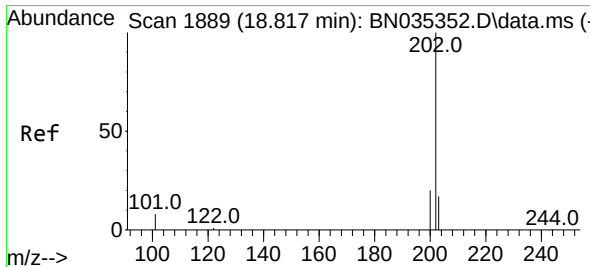
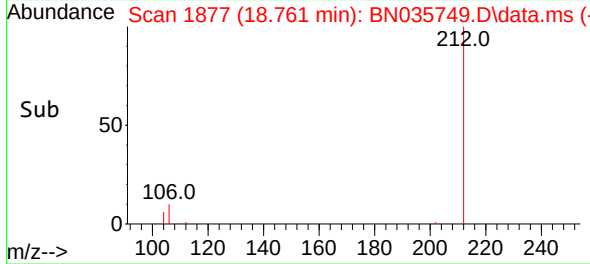
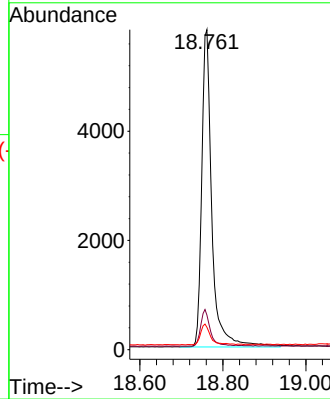
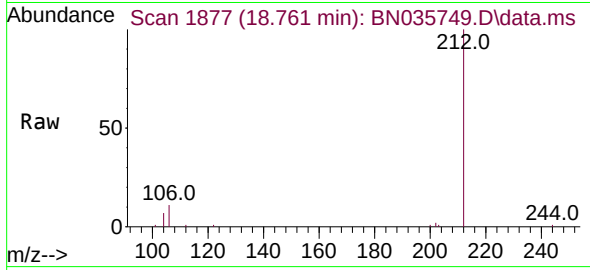
#27  
Fluoranthene-d10  
Concen: 0.379 ng  
RT: 18.761 min Scan# 1877  
Delta R.T. -0.000 min  
Lab File: BN035749.D  
Acq: 20 Dec 2024 19:33

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

Tgt Ion:212 Resp: 985  
Ion Ratio Lower Upper  
212 100  
106 11.0 9.2 13.8  
104 6.4 5.3 7.9

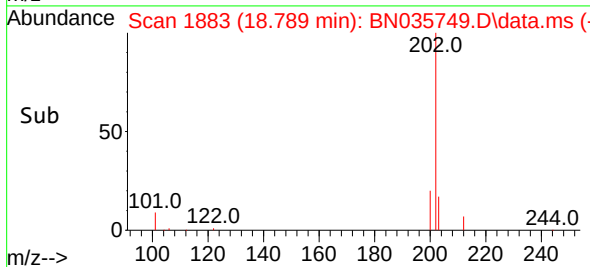
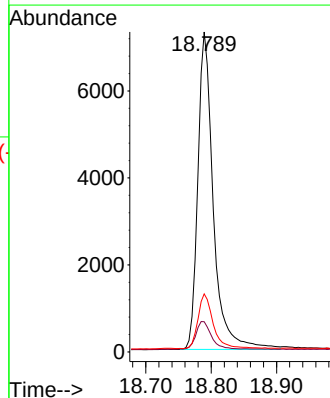
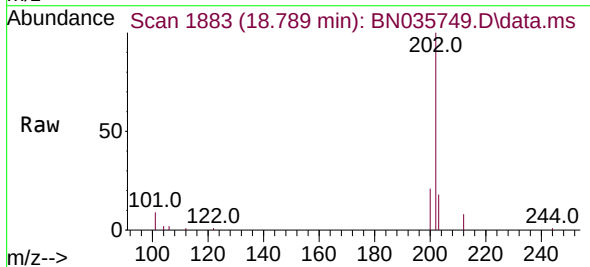
Manual Integrations  
**APPROVED**

Reviewed By :Jagrut Upadhyay 12/23/2024  
Supervised By :mohammad ahmed 12/24/2024

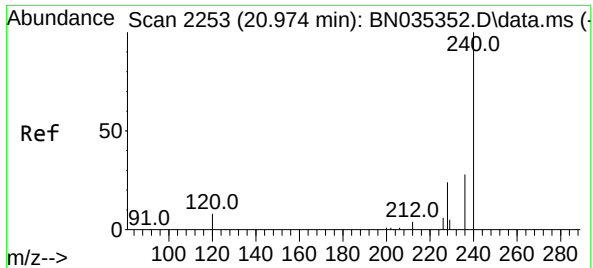


#28  
Fluoranthene  
Concen: 0.353 ng  
RT: 18.789 min Scan# 1883  
Delta R.T. -0.000 min  
Lab File: BN035749.D  
Acq: 20 Dec 2024 19:33

Tgt Ion:202 Resp: 12002  
Ion Ratio Lower Upper  
202 100  
101 9.1 7.4 11.0  
203 17.1 13.7 20.5







#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.956 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035749.D

Acq: 20 Dec 2024 19:33

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion:240 Resp: 7719

Ion Ratio Lower Upper

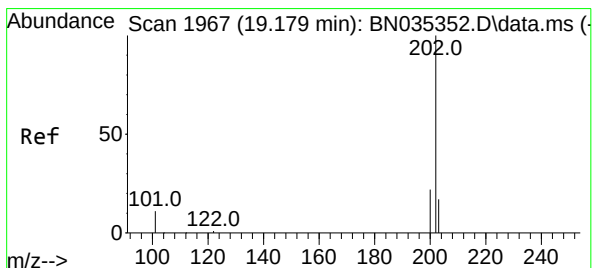
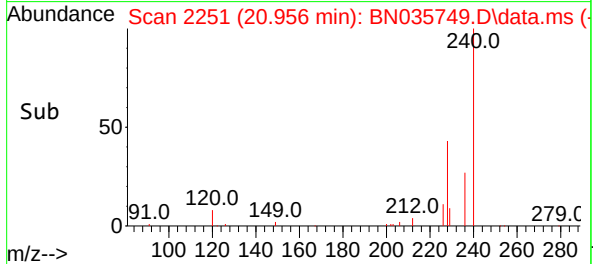
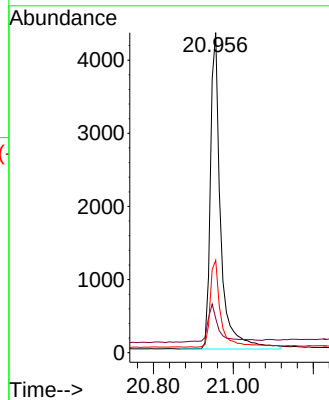
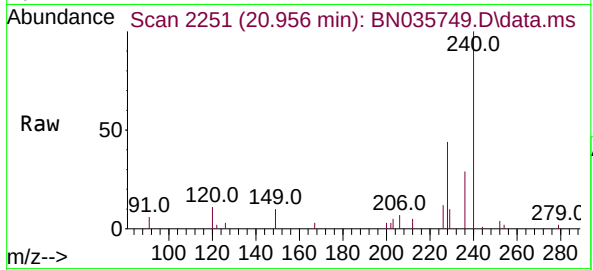
240 100

120 10.7 7.9 11.9

236 28.9 22.9 34.3

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 12/23/2024  
Supervised By :mohammad ahmed 12/24/2024

#30

Pyrene

Concen: 0.438 ng

RT: 19.156 min Scan# 1962

Delta R.T. -0.005 min

Lab File: BN035749.D

Acq: 20 Dec 2024 19:33

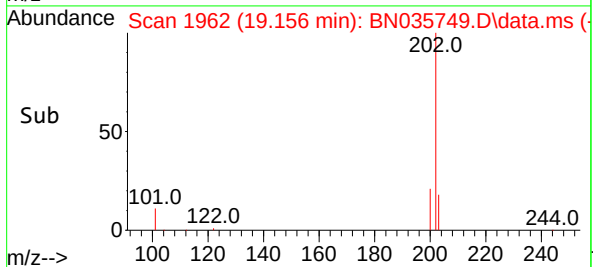
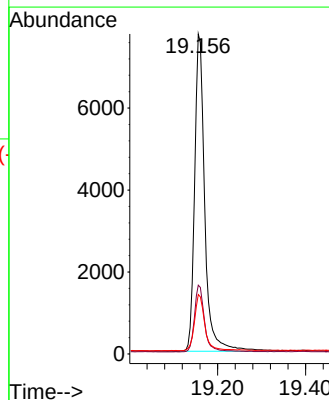
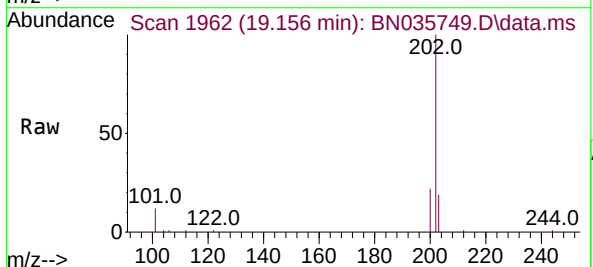
Tgt Ion:202 Resp: 12468

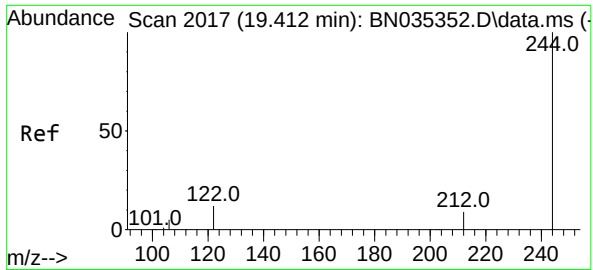
Ion Ratio Lower Upper

202 100

200 20.7 17.0 25.4

203 17.8 14.3 21.5





#31  
Terphenyl-d14  
Concen: 0.452 ng  
RT: 19.393 min Scan# 2017  
Delta R.T. 0.005 min  
Lab File: BN035749.D  
Acq: 20 Dec 2024 19:33

Instrument :

BNA\_N

ClientSampleId :

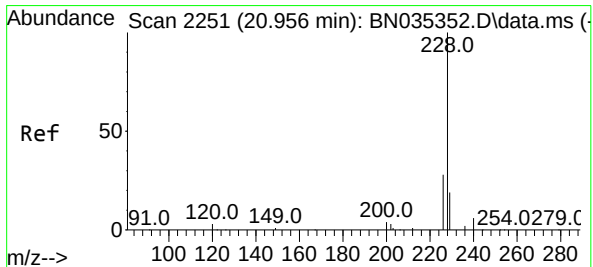
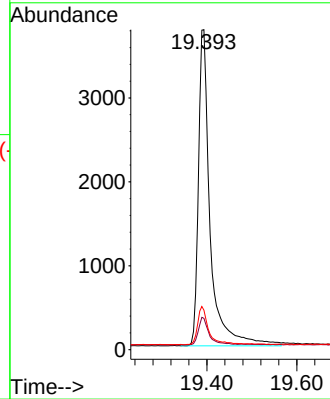
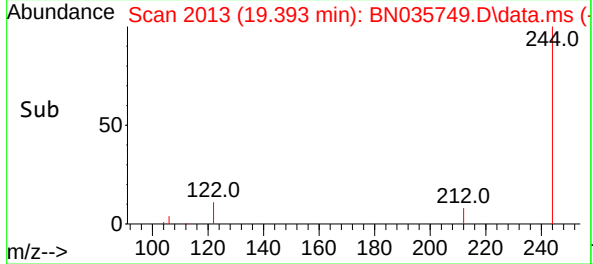
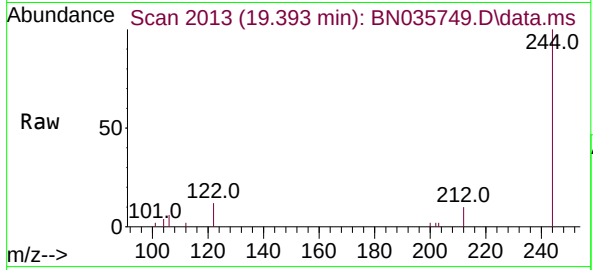
SSTDCCC0.4

Tgt Ion:244 Resp: 6880  
Ion Ratio Lower Upper  
244 100  
212 9.8 8.1 12.1  
122 12.4 10.3 15.5

Manual Integrations

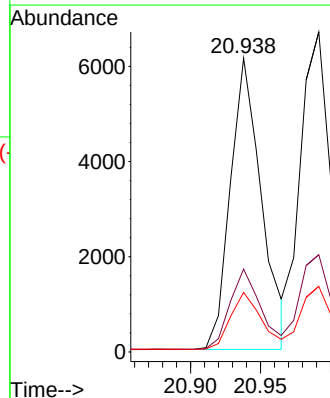
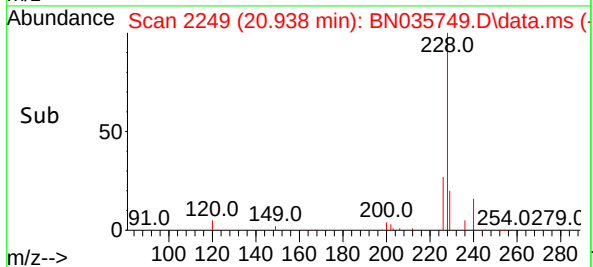
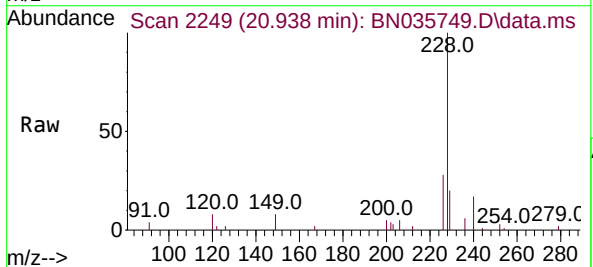
APPROVED

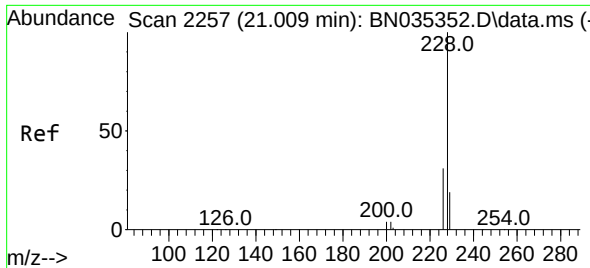
Reviewed By :Jagrut Upadhyay 12/23/2024  
Supervised By :mohammad ahmed 12/24/2024



#32  
Benzo(a)anthracene  
Concen: 0.351 ng  
RT: 20.938 min Scan# 2249  
Delta R.T. -0.000 min  
Lab File: BN035749.D  
Acq: 20 Dec 2024 19:33

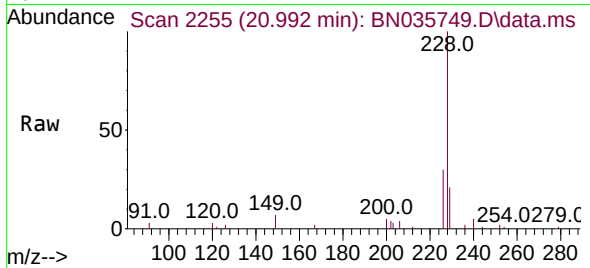
Tgt Ion:228 Resp: 9472  
Ion Ratio Lower Upper  
228 100  
226 28.2 22.5 33.7  
229 20.3 15.8 23.8





#33  
Chrysene  
Concen: 0.429 ng  
RT: 20.992 min Scan# 211  
Delta R.T. -0.000 min  
Lab File: BN035749.D  
Acq: 20 Dec 2024 19:33

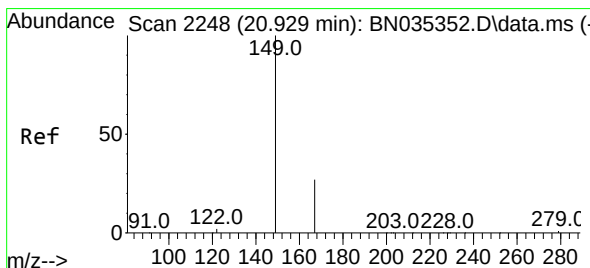
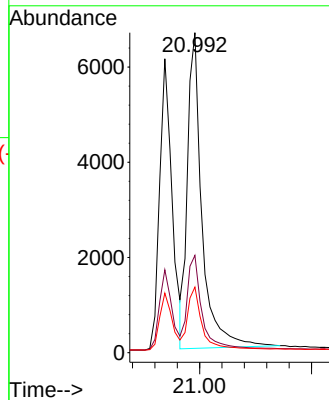
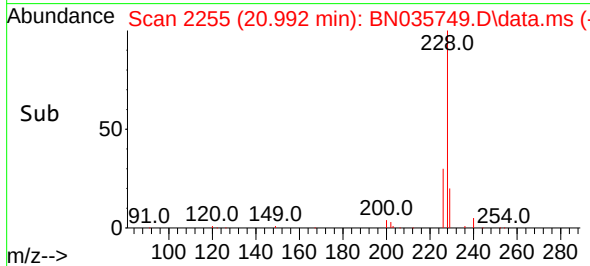
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4



Tgt Ion:228 Resp: 11952  
Ion Ratio Lower Upper  
228 100  
226 30.4 24.6 37.0  
229 20.5 15.9 23.9

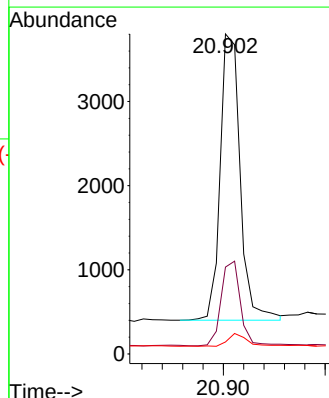
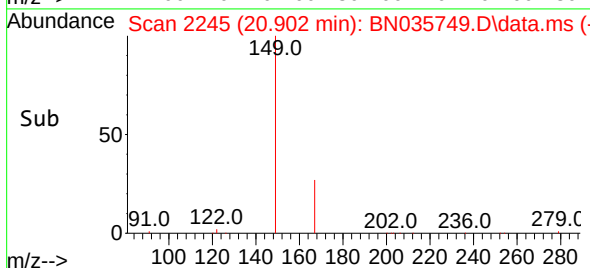
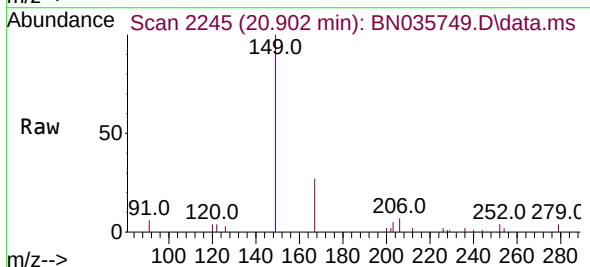
Manual Integrations  
**APPROVED**

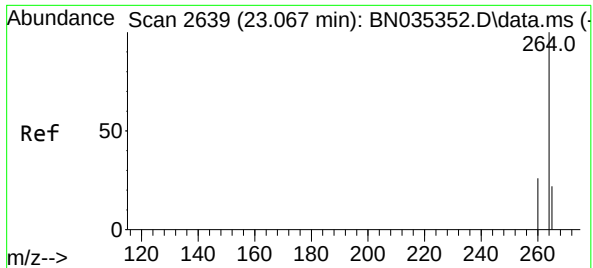
Reviewed By :Jagrut Upadhyay 12/23/2024  
Supervised By :mohammad ahmed 12/24/2024



#34  
Bis(2-ethylhexyl)phthalate  
Concen: 0.434 ng  
RT: 20.902 min Scan# 2245  
Delta R.T. -0.009 min  
Lab File: BN035749.D  
Acq: 20 Dec 2024 19:33

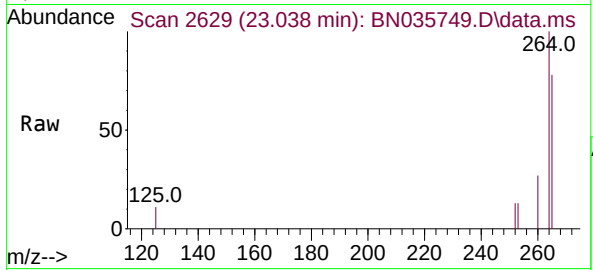
Tgt Ion:149 Resp: 4632  
Ion Ratio Lower Upper  
149 100  
167 28.9 22.2 33.4  
279 4.5 2.7 4.1#





#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.038 min Scan# 2629  
Delta R.T. -0.003 min  
Lab File: BN035749.D  
Acq: 20 Dec 2024 19:33

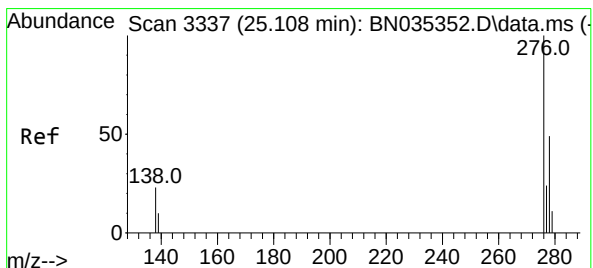
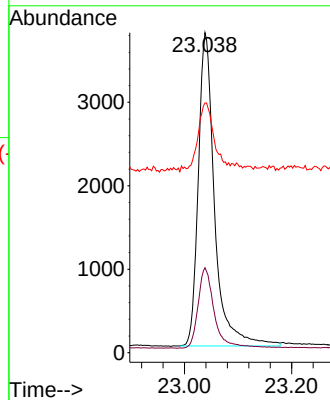
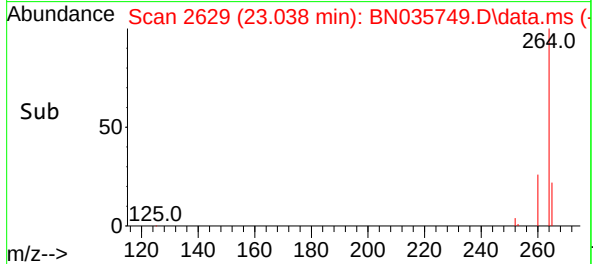
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4



Tgt Ion:264 Resp: 794.3  
Ion Ratio Lower Upper  
264 100  
260 26.5 21.4 32.2  
265 78.1 40.2 60.4

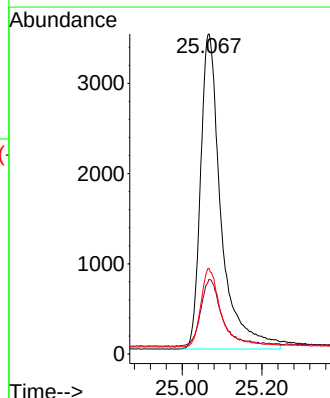
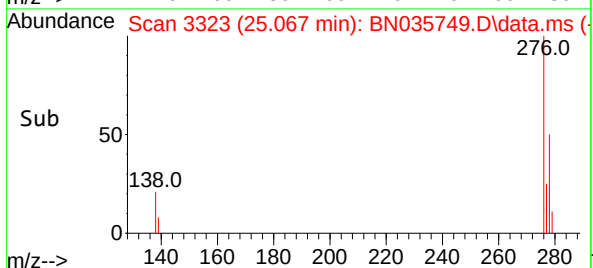
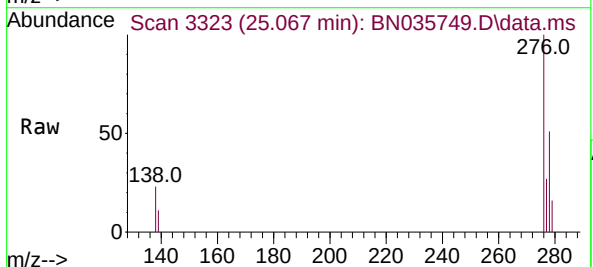
Manual Integrations  
**APPROVED**

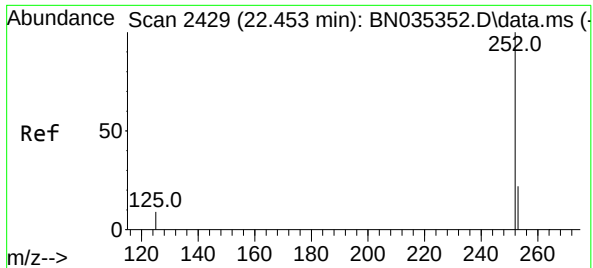
Reviewed By :Jagrut Upadhyay 12/23/2024  
Supervised By :mohammad ahmed 12/24/2024



#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.404 ng  
RT: 25.067 min Scan# 3323  
Delta R.T. -0.000 min  
Lab File: BN035749.D  
Acq: 20 Dec 2024 19:33

Tgt Ion:276 Resp: 12531  
Ion Ratio Lower Upper  
276 100  
138 21.0 19.4 29.0  
277 24.2 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.472 ng

RT: 22.427 min Scan# 2420

Delta R.T. -0.003 min

Lab File: BN035749.D

Acq: 20 Dec 2024 19:33

Instrument :

BNA\_N

ClientSampleId :

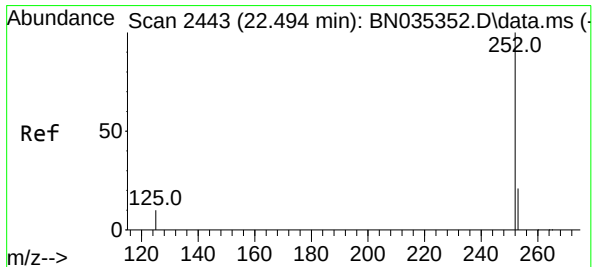
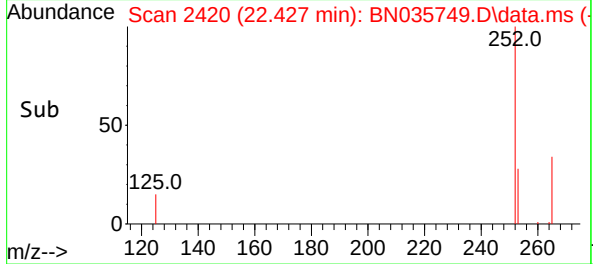
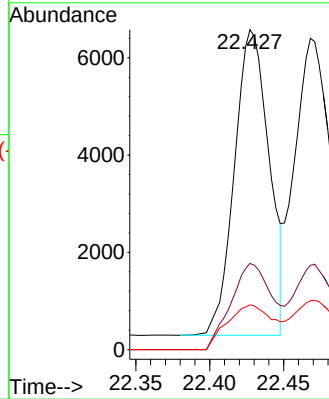
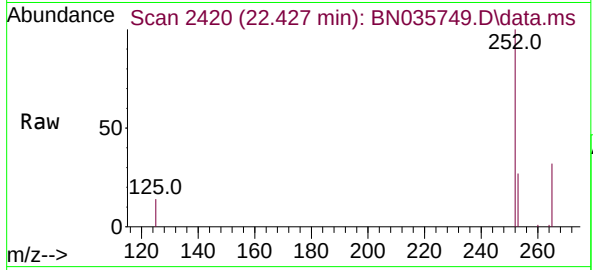
SSTDCCC0.4

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:252 | Resp: | 13708     |
| Ion Ratio   | Lower | Upper     |
| 252         | 100   |           |
| 253         | 26.9  | 19.6 29.4 |
| 125         | 14.0  | 9.6 14.4  |

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 12/23/2024  
Supervised By :mohammad ahmed 12/24/2024



#38

Benzo(k)fluoranthene

Concen: 0.406 ng m

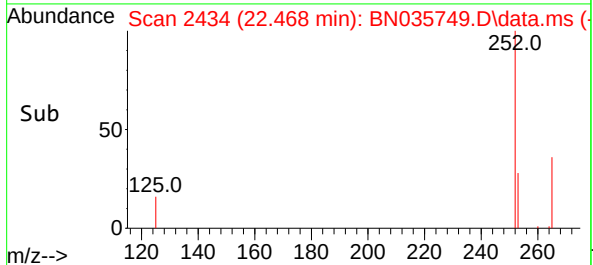
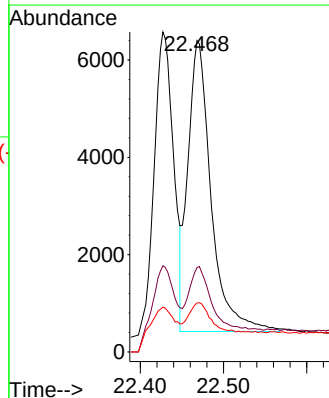
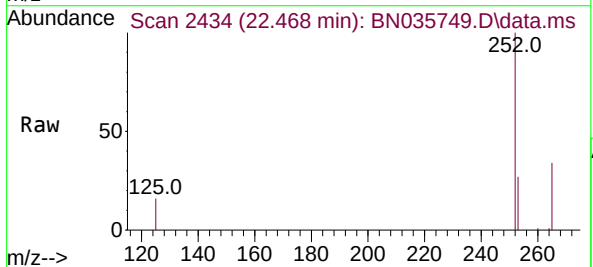
RT: 22.468 min Scan# 2434

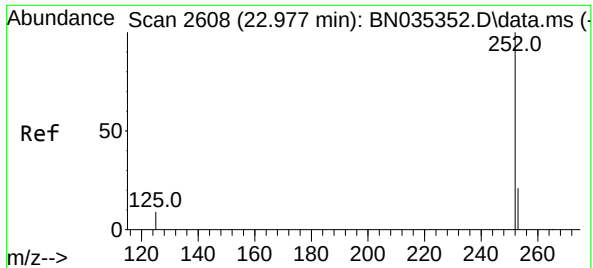
Delta R.T. -0.003 min

Lab File: BN035749.D

Acq: 20 Dec 2024 19:33

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:252 | Resp: | 11604     |
| Ion Ratio   | Lower | Upper     |
| 252         | 100   |           |
| 253         | 27.1  | 19.5 29.3 |
| 125         | 15.7  | 10.2 15.4 |





#39

Benzo(a)pyrene

Concen: 0.389 ng

RT: 22.950 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035749.D

Acq: 20 Dec 2024 19:33

Instrument :

BNA\_N

ClientSampleId :

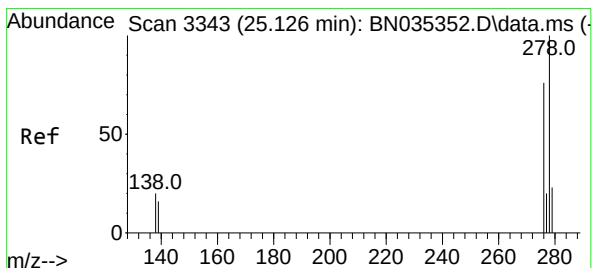
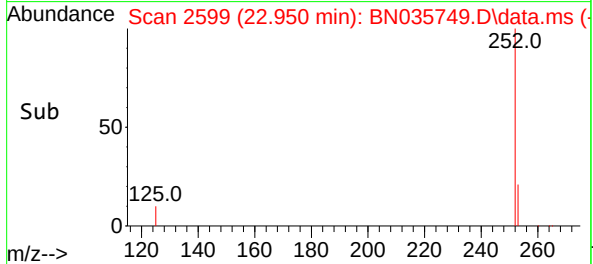
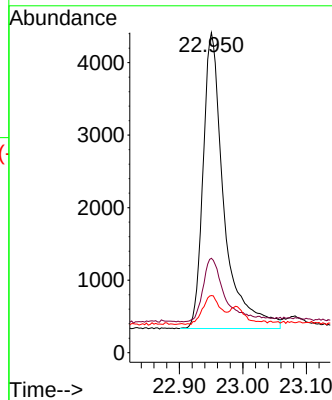
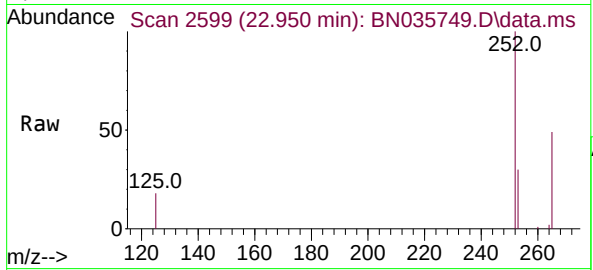
SSTDCCC0.4

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:252 | Resp: | 9304      |
| Ion Ratio   | Lower | Upper     |
| 252         | 100   |           |
| 253         | 29.5  | 20.2 30.4 |
| 125         | 17.9  | 10.9 16.3 |

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 12/23/2024  
 Supervised By :mohammad ahmed 12/24/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.389 ng

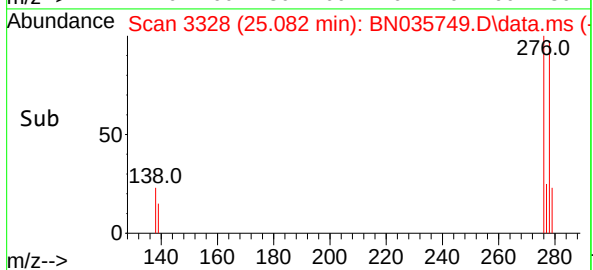
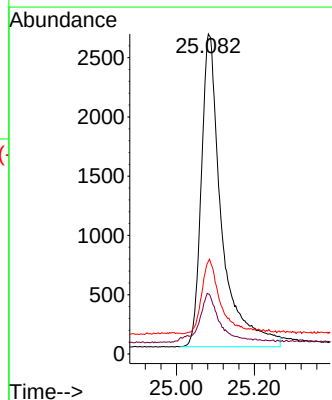
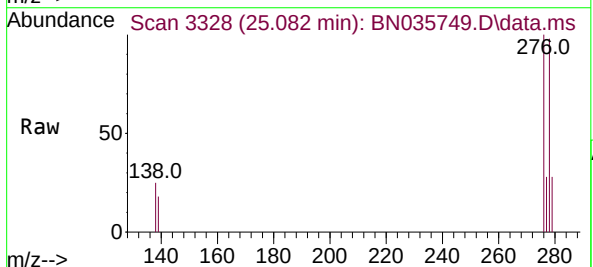
RT: 25.082 min Scan# 3328

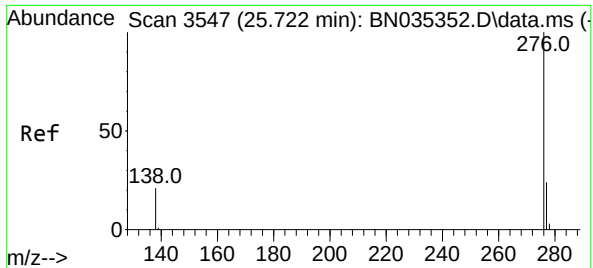
Delta R.T. -0.000 min

Lab File: BN035749.D

Acq: 20 Dec 2024 19:33

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:278 | Resp: | 9530      |
| Ion Ratio   | Lower | Upper     |
| 278         | 100   |           |
| 139         | 18.7  | 14.2 21.4 |
| 279         | 28.9  | 20.5 30.7 |





#41

Benzo(g,h,i)perylene

Concen: 0.438 ng

RT: 25.675 min Scan# 31

Delta R.T. -0.003 min

Lab File: BN035749.D

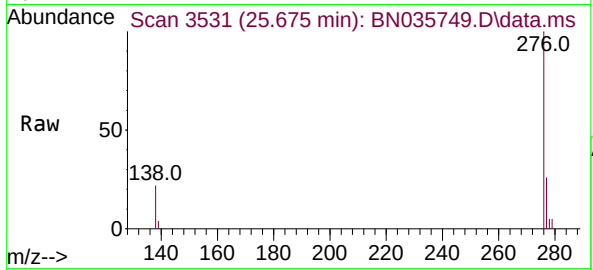
Acq: 20 Dec 2024 19:33

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4



Tgt Ion:276 Resp: 1121

Ion Ratio Lower Upper

276 100

277 25.5 19.9 29.9

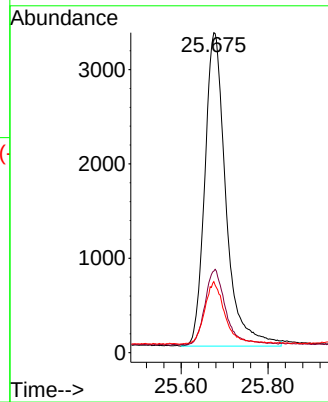
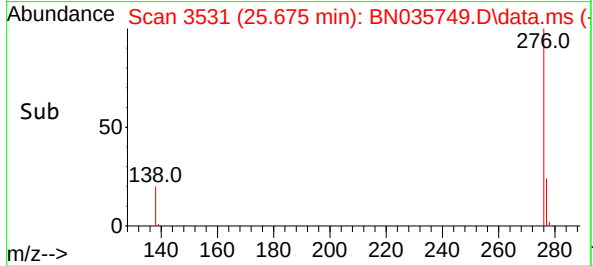
138 22.2 17.8 26.8

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 12/23/2024

Supervised By :mohammad ahmed 12/24/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN121924\  
 Data File : BN035749.D  
 Acq On : 20 Dec 2024 19:33  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 40 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 LabSampleId :  
 SSTDCCC0.4

Quant Time: Dec 21 01:43:03 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Dec 19 23:06:19 2024  
 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   | 141   | 0.00     |
| 2       | 1,4-Dioxane                | 0.382 | 0.445 | -16.5 | 167#  | 0.00     |
| 3       | n-Nitrosodimethylamine     | 0.319 | 0.359 | -12.5 | 155#  | 0.00     |
| 4 S     | 2-Fluorophenol             | 1.001 | 1.021 | -2.0  | 141   | 0.00     |
| 5 S     | Phenol-d6                  | 1.204 | 1.178 | 2.2   | 139   | 0.00     |
| 6       | bis(2-Chloroethyl)ether    | 1.012 | 0.907 | 10.4  | 129   | 0.00     |
| 7 I     | Naphthalene-d8             | 1.000 | 1.000 | 0.0   | 143   | -0.01    |
| 8 S     | Nitrobenzene-d5            | 0.244 | 0.294 | -20.5 | 179#  | 0.00     |
| 9       | Naphthalene                | 1.055 | 1.088 | -3.1  | 148   | 0.00     |
| 10      | Hexachlorobutadiene        | 0.243 | 0.282 | -16.0 | 163#  | -0.01    |
| 11 SURR | 2-Methylnaphthalene-d10    | 0.626 | 0.622 | 0.6   | 143   | 0.00     |
| 12      | 2-Methylnaphthalene        | 0.755 | 0.713 | 5.6   | 138   | 0.00     |
| 13 I    | Acenaphthene-d10           | 1.000 | 1.000 | 0.0   | 121   | -0.01    |
| 14 S    | 2,4,6-Tribromophenol       | 0.284 | 0.235 | 17.3  | 111   | 0.00     |
| 15 S    | 2-Fluorobiphenyl           | 1.512 | 1.560 | -3.2  | 125   | 0.00     |
| 16      | Acenaphthylene             | 1.680 | 1.624 | 3.3   | 123   | -0.01    |
| 17      | Acenaphthene               | 1.115 | 1.128 | -1.2  | 126   | -0.01    |
| 18      | Fluorene                   | 1.596 | 1.464 | 8.3   | 115   | -0.01    |
| 19 I    | Phenanthrene-d10           | 1.000 | 1.000 | 0.0   | 97    | 0.00     |
| 20      | 4,6-Dinitro-2-methylphenol | 0.039 | 0.011 | 71.8# | 29#   | 0.01     |
| 21      | 4-Bromophenyl-phenylether  | 0.234 | 0.230 | 1.7   | 98    | -0.01    |
| 22      | Hexachlorobenzene          | 0.275 | 0.335 | -21.8 | 119   | -0.01    |
| 23      | Atrazine                   | 0.167 | 0.173 | -3.6  | 108   | 0.00     |
| 24      | Pentachlorophenol          | 0.120 | 0.110 | 8.3   | 112   | 0.00     |
| 25      | Phenanthrene               | 1.099 | 1.074 | 2.3   | 97    | 0.00     |
| 26      | Anthracene                 | 0.994 | 0.939 | 5.5   | 97    | 0.00     |
| 27 SURR | Fluoranthene-d10           | 1.134 | 1.074 | 5.3   | 96    | 0.00     |
| 28      | Fluoranthene               | 1.481 | 1.307 | 11.7  | 89    | 0.00     |
| 29 I    | Chrysene-d12               | 1.000 | 1.000 | 0.0   | 81    | 0.00     |
| 30      | Pyrene                     | 1.477 | 1.615 | -9.3  | 89    | 0.00     |
| 31 S    | Terphenyl-d14              | 0.789 | 0.891 | -12.9 | 91    | 0.00     |
| 32      | Benzo(a)anthracene         | 1.399 | 1.227 | 12.3  | 73    | 0.00     |
| 33      | Chrysene                   | 1.443 | 1.548 | -7.3  | 87    | 0.00     |
| 34      | Bis(2-ethylhexyl)phthalate | 0.553 | 0.600 | -8.5  | 94    | 0.00     |
| 35 I    | Perylene-d12               | 1.000 | 1.000 | 0.0   | 73    | 0.00     |
| 36      | Indeno(1,2,3-cd)pyrene     | 1.564 | 1.578 | -0.9  | 75    | 0.00     |
| 37      | Benzo(b)fluoranthene       | 1.463 | 1.726 | -18.0 | 96    | 0.00     |
| 38      | Benzo(k)fluoranthene       | 1.440 | 1.461 | -1.5  | 76    | 0.00     |
| 39 C    | Benzo(a)pyrene             | 1.205 | 1.171 | 2.8   | 75    | 0.00     |
| 40      | Dibenzo(a,h)anthracene     | 1.234 | 1.200 | 2.8   | 74    | 0.00     |
| 41      | Benzo(g,h,i)perylene       | 1.289 | 1.412 | -9.5  | 83    | 0.00     |

(#) = Out of Range

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



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN121924\  
 Data File : BN035749.D  
 Acq On : 20 Dec 2024 19:33  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 40 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 LabSampleId :  
 SSTDCCC0.4

Quant Time: Dec 21 01:43:03 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Dec 19 23:06:19 2024  
 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   | 141   | 0.00     |
| 2       | 1,4-Dioxane                | 0.400  | 0.466 | -16.5 | 167   | 0.00     |
| 3       | n-Nitrosodimethylamine     | 0.400  | 0.451 | -12.7 | 155   | 0.00     |
| 4 S     | 2-Fluorophenol             | 0.400  | 0.408 | -2.0  | 141   | 0.00     |
| 5 S     | Phenol-d6                  | 0.400  | 0.391 | 2.3   | 139   | 0.00     |
| 6       | bis(2-Chloroethyl)ether    | 0.400  | 0.359 | 10.3  | 129   | 0.00     |
| 7 I     | Naphthalene-d8             | 0.400  | 0.400 | 0.0   | 143   | -0.01    |
| 8 S     | Nitrobenzene-d5            | 0.400  | 0.481 | -20.2 | 179   | 0.00     |
| 9       | Naphthalene                | 0.400  | 0.412 | -3.0  | 148   | 0.00     |
| 10      | Hexachlorobutadiene        | 0.400  | 0.464 | -16.0 | 163   | -0.01    |
| 11 SURR | 2-Methylnaphthalene-d10    | 0.400  | 0.397 | 0.8   | 143   | 0.00     |
| 12      | 2-Methylnaphthalene        | 0.400  | 0.378 | 5.5   | 138   | 0.00     |
| 13 I    | Acenaphthene-d10           | 0.400  | 0.400 | 0.0   | 121   | -0.01    |
| 14 S    | 2,4,6-Tribromophenol       | 0.400  | 0.331 | 17.3  | 111   | 0.00     |
| 15 S    | 2-Fluorobiphenyl           | 0.400  | 0.413 | -3.2  | 125   | 0.00     |
| 16      | Acenaphthylene             | 0.400  | 0.387 | 3.3   | 123   | -0.01    |
| 17      | Acenaphthene               | 0.400  | 0.405 | -1.3  | 126   | -0.01    |
| 18      | Fluorene                   | 0.400  | 0.367 | 8.3   | 115   | -0.01    |
| 19 I    | Phenanthrene-d10           | 0.400  | 0.400 | 0.0   | 97    | 0.00     |
| 20      | 4,6-Dinitro-2-methylphenol | 0.400  | 0.110 | 72.5# | 29    | 0.01     |
| 21      | 4-Bromophenyl-phenylether  | 0.400  | 0.393 | 1.8   | 98    | -0.01    |
| 22      | Hexachlorobenzene          | 0.400  | 0.487 | -21.7 | 119   | -0.01    |
| 23      | Atrazine                   | 0.400  | 0.414 | -3.5  | 108   | 0.00     |
| 24      | Pentachlorophenol          | 0.400  | 0.370 | 7.5   | 112   | 0.00     |
| 25      | Phenanthrene               | 0.400  | 0.391 | 2.3   | 97    | 0.00     |
| 26      | Anthracene                 | 0.400  | 0.378 | 5.5   | 97    | 0.00     |
| 27 SURR | Fluoranthene-d10           | 0.400  | 0.379 | 5.3   | 96    | 0.00     |
| 28      | Fluoranthene               | 0.400  | 0.353 | 11.8  | 89    | 0.00     |
| 29 I    | Chrysene-d12               | 0.400  | 0.400 | 0.0   | 81    | 0.00     |
| 30      | Pyrene                     | 0.400  | 0.438 | -9.5  | 89    | 0.00     |
| 31 S    | Terphenyl-d14              | 0.400  | 0.452 | -13.0 | 91    | 0.00     |
| 32      | Benzo(a)anthracene         | 0.400  | 0.351 | 12.3  | 73    | 0.00     |
| 33      | Chrysene                   | 0.400  | 0.429 | -7.2  | 87    | 0.00     |
| 34      | Bis(2-ethylhexyl)phthalate | 0.400  | 0.434 | -8.5  | 94    | 0.00     |
| 35 I    | Perylene-d12               | 0.400  | 0.400 | 0.0   | 73    | 0.00     |
| 36      | Indeno(1,2,3-cd)pyrene     | 0.400  | 0.404 | -1.0  | 75    | 0.00     |
| 37      | Benzo(b)fluoranthene       | 0.400  | 0.472 | -18.0 | 96    | 0.00     |
| 38      | Benzo(k)fluoranthene       | 0.400  | 0.406 | -1.5  | 76    | 0.00     |
| 39 C    | Benzo(a)pyrene             | 0.400  | 0.389 | 2.8   | 75    | 0.00     |
| 40      | Dibenzo(a,h)anthracene     | 0.400  | 0.389 | 2.8   | 74    | 0.00     |
| 41      | Benzo(g,h,i)perylene       | 0.400  | 0.438 | -9.5  | 83    | 0.00     |

(#) = Out of Range

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



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

7C

## SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P5284 SAS No.: P5284 SDG No.: P5284

Instrument ID: BNA\_N Calibration Date/Time: 12/21/2024 05:10

Lab File ID: BN035765.D Init. Calib. Date(s): 11/27/2024 11/27/2024

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 15:34 19:09

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

| COMPOUND                | RRF   | RRF0.4 | MIN<br>RRF | %D    | MAX%D |
|-------------------------|-------|--------|------------|-------|-------|
| 2-Methylnaphthalene-d10 | 0.626 | 0.578  |            | -7.7  | 50.0  |
| Fluoranthene-d10        | 1.134 | 0.989  |            | -12.8 | 50.0  |
| 2-Fluorophenol          | 1.001 | 0.960  |            | -4.1  | 50.0  |
| Phenol-d6               | 1.204 | 1.094  |            | -9.1  | 50.0  |
| Nitrobenzene-d5         | 0.244 | 0.284  |            | 16.4  | 50.0  |
| 2-Fluorobiphenyl        | 1.512 | 1.389  |            | -8.1  | 50.0  |
| 2,4,6-Tribromophenol    | 0.284 | 0.215  |            | -24.3 | 50.0  |
| Terphenyl-d14           | 0.789 | 0.863  |            | 9.4   | 50.0  |
| 1,4-Dioxane             | 0.382 | 0.439  |            | 14.9  | 50.0  |

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN121924\  
 Data File : BN035765.D  
 Acq On : 21 Dec 2024 05:10  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 56 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4EC

Manual Integrations  
 APPROVED

Reviewed By :Jagrut Upadhyay 12/23/2024  
 Supervised By :mohammad ahmed 12/24/2024

Quant Time: Dec 21 05:39:14 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Dec 19 23:06:19 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.264  | 152  | 3545     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.009 | 136  | 9106     | 0.400 | ng    | #-0.01   |
| 13) Acenaphthene-d10          | 13.924 | 164  | 5821     | 0.400 | ng    | -0.01    |
| 19) Phenanthrene-d10          | 16.698 | 188  | 12321    | 0.400 | ng    | # 0.00   |
| 29) Chrysene-d12              | 20.947 | 240  | 9836     | 0.400 | ng    | # 0.00   |
| 35) Perylene-d12              | 23.035 | 264  | 10740    | 0.400 | ng    | # 0.00   |
|                               |        |      |          |       |       |          |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 4.932  | 112  | 3403     | 0.384 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.477  | 99   | 3879     | 0.364 | ng    | -0.01    |
| 8) Nitrobenzene-d5            | 8.408  | 82   | 2582m    | 0.464 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.616 | 152  | 5263     | 0.369 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.453 | 330  | 1253     | 0.303 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.538 | 172  | 8084     | 0.367 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 18.757 | 212  | 12191    | 0.349 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.388 | 244  | 8488     | 0.437 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| Target Compounds              |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 2.982  | 88   | 1555     | 0.459 | ng    | 96       |
| 3) n-Nitrosodimethylamine     | 3.278  | 42   | 1104     | 0.391 | ng    | # 93     |
| 6) bis(2-Chloroethyl)ether    | 6.723  | 93   | 3165     | 0.353 | ng    | 98       |
| 9) Naphthalene                | 10.063 | 128  | 9097     | 0.379 | ng    | 100      |
| 10) Hexachlorobutadiene       | 10.351 | 225  | 2300     | 0.415 | ng    | # 99     |
| 12) 2-Methylnaphthalene       | 11.692 | 142  | 6016     | 0.350 | ng    | 99       |
| 16) Acenaphthylene            | 13.636 | 152  | 8764     | 0.359 | ng    | 99       |
| 17) Acenaphthene              | 13.989 | 154  | 6047     | 0.373 | ng    | 98       |
| 18) Fluorene                  | 14.993 | 166  | 7942     | 0.342 | ng    | 100      |
| 20) 4,6-Dinitro-2-methylph... | 15.132 | 198  | 142      | 0.117 | ng    | # 1      |
| 21) 4-Bromophenyl-phenylether | 15.904 | 248  | 2531     | 0.351 | ng    | # 83     |
| 22) Hexachlorobenzene         | 16.003 | 284  | 3667     | 0.433 | ng    | 97       |
| 23) Atrazine                  | 16.202 | 200  | 1895     | 0.369 | ng    | 96       |
| 24) Pentachlorophenol         | 16.376 | 266  | 1177     | 0.320 | ng    | # 86     |
| 25) Phenanthrene              | 16.735 | 178  | 12350    | 0.365 | ng    | 99       |
| 26) Anthracene                | 16.835 | 178  | 10612    | 0.347 | ng    | 99       |
| 28) Fluoranthene              | 18.789 | 202  | 15375    | 0.337 | ng    | 99       |
| 30) Pyrene                    | 19.156 | 202  | 15587    | 0.429 | ng    | 100      |
| 32) Benzo(a)anthracene        | 20.938 | 228  | 11659    | 0.339 | ng    | 100      |
| 33) Chrysene                  | 20.991 | 228  | 14263    | 0.402 | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 20.902 | 149  | 5697     | 0.419 | ng    | 99       |
| 36) Indeno(1,2,3-cd)pyrene    | 25.064 | 276  | 15666    | 0.373 | ng    | 99       |
| 37) Benzo(b)fluoranthene      | 22.427 | 252  | 19003    | 0.484 | ng    | 98       |
| 38) Benzo(k)fluoranthene      | 22.468 | 252  | 15020m   | 0.388 | ng    |          |
| 39) Benzo(a)pyrene            | 22.947 | 252  | 11742    | 0.363 | ng    | 94       |
| 40) Dibenzo(a,h)anthracene    | 25.079 | 278  | 11661    | 0.352 | ng    | 97       |
| 41) Benzo(g,h,i)perylene      | 25.675 | 276  | 14236    | 0.411 | ng    | 99       |

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

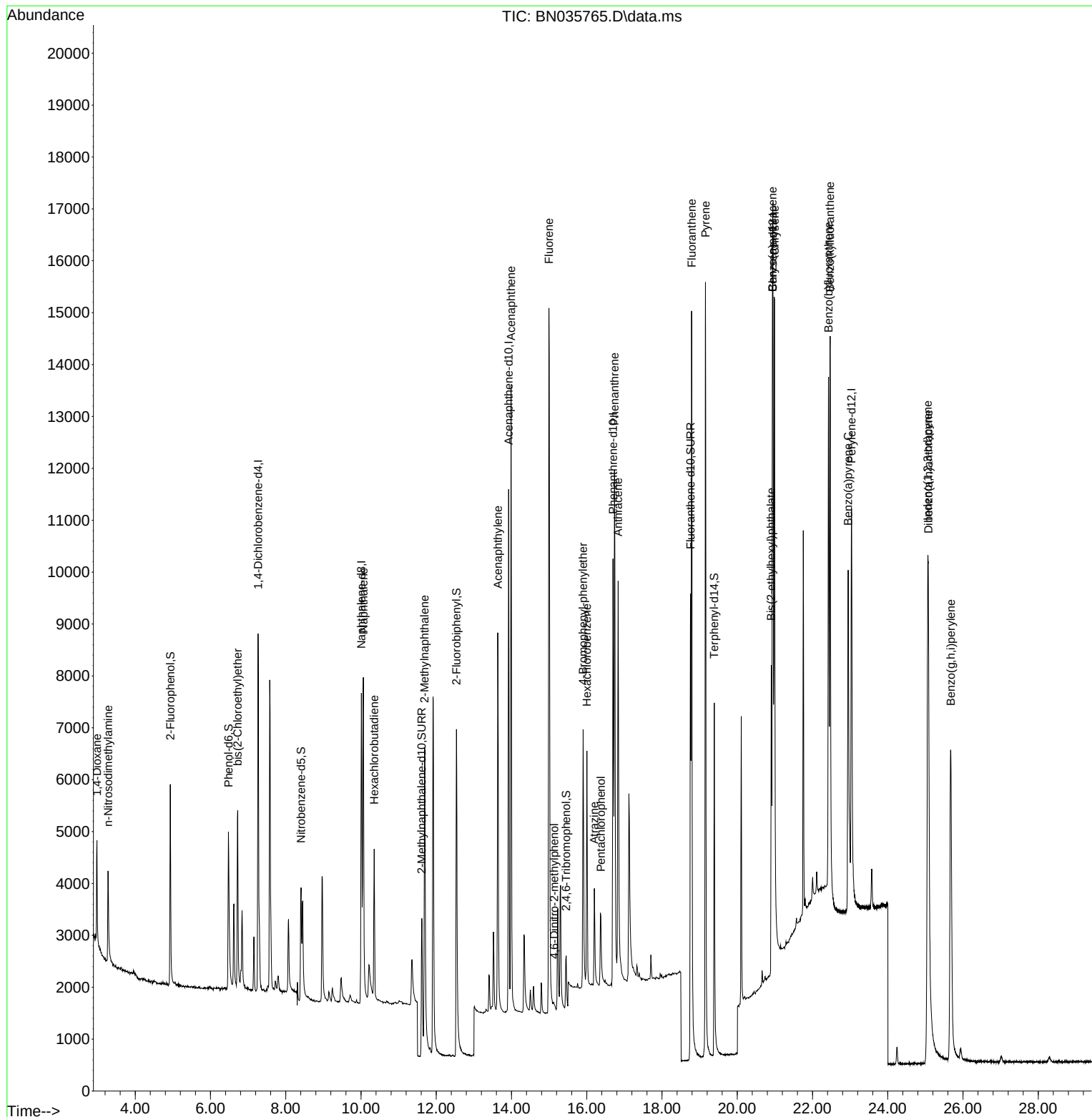
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 Data File : BN035765.D  
 Acq On : 21 Dec 2024 05:10  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 56 Sample Multiplier: 1

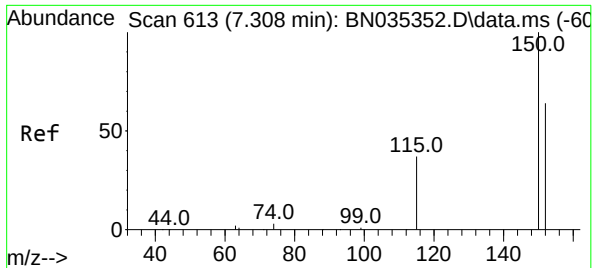
Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4EC

### Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 12/23/2024  
 Supervised By :mohammad ahmed 12/24/2024

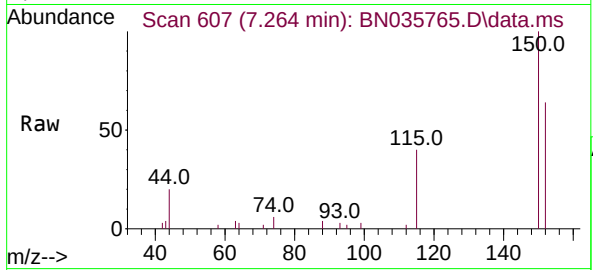
Quant Time: Dec 21 05:39:14 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Dec 19 23:06:19 2024  
 Response via : Initial Calibration





#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.264 min Scan# 60  
Delta R.T. -0.008 min  
Lab File: BN035765.D  
Acq: 21 Dec 2024 05:10

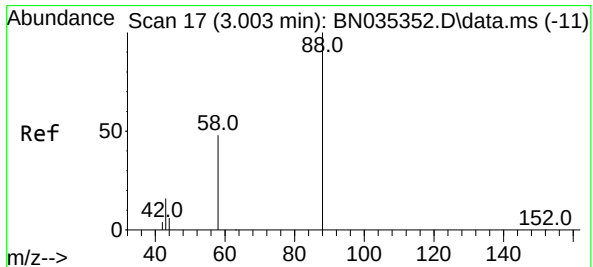
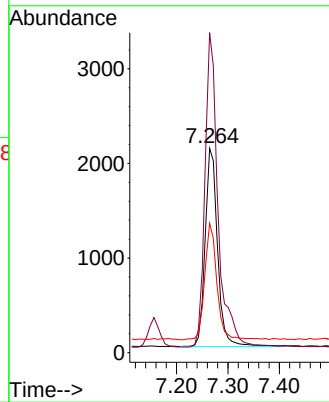
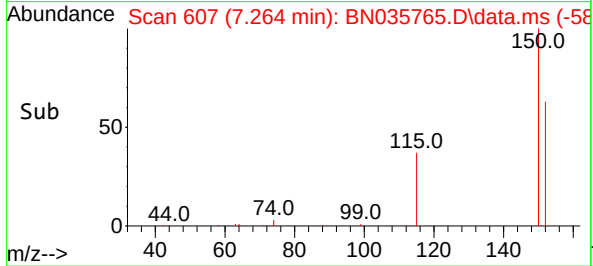
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC



Tgt Ion:152 Resp: 354  
Ion Ratio Lower Upper  
152 100  
150 156.6 124.0 186.0  
115 63.3 49.6 74.4

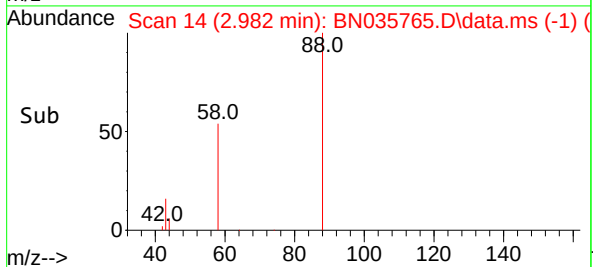
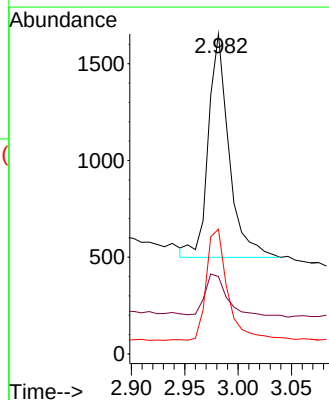
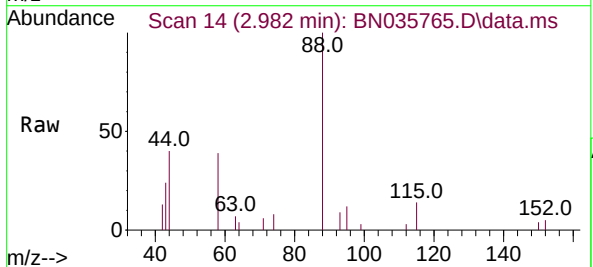
Manual Integrations  
APPROVED

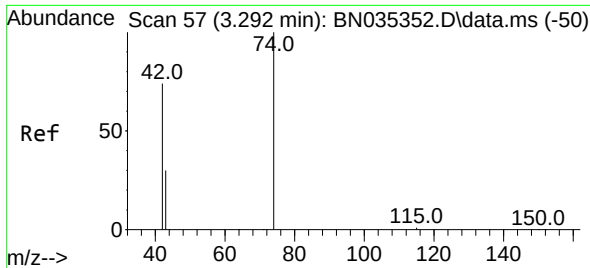
Reviewed By :Jagrut Upadhyay 12/23/2024  
Supervised By :mohammad ahmed 12/24/2024



#2  
1,4-Dioxane  
Concen: 0.459 ng  
RT: 2.982 min Scan# 14  
Delta R.T. -0.000 min  
Lab File: BN035765.D  
Acq: 21 Dec 2024 05:10

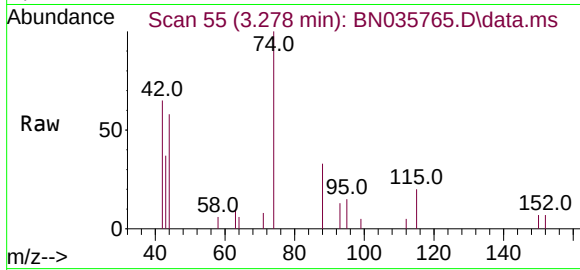
Tgt Ion: 88 Resp: 1555  
Ion Ratio Lower Upper  
88 100  
43 22.1 17.2 25.8  
58 52.2 44.5 66.7





#3  
n-Nitrosodimethylamine  
Concen: 0.391 ng  
RT: 3.278 min Scan# 51  
Delta R.T. -0.000 min  
Lab File: BN035765.D  
Acq: 21 Dec 2024 05:10

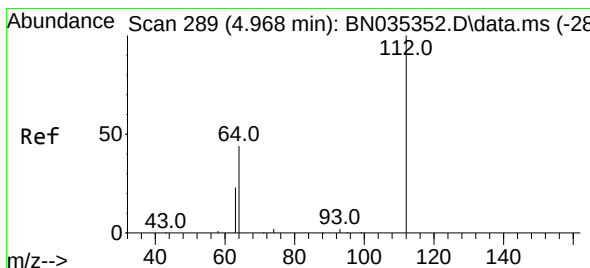
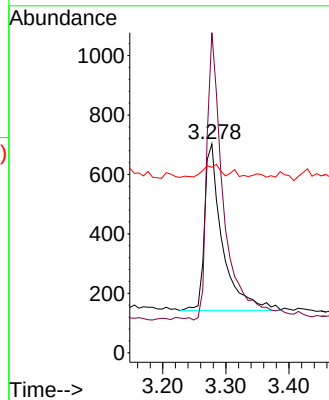
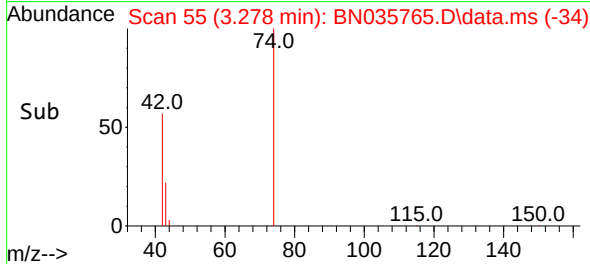
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC



Tgt Ion: 42 Resp: 1104  
Ion Ratio Lower Upper  
42 100  
74 165.7 124.9 187.3  
44 6.3 2.2 3.4

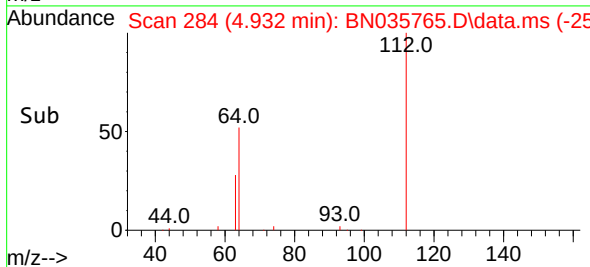
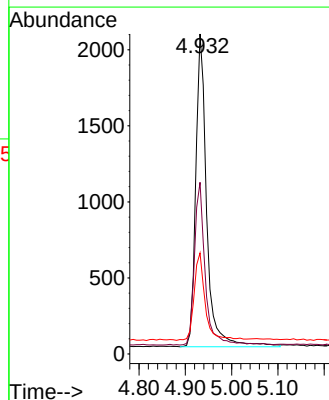
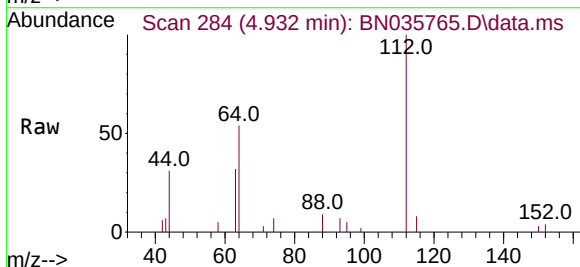
Manual Integrations  
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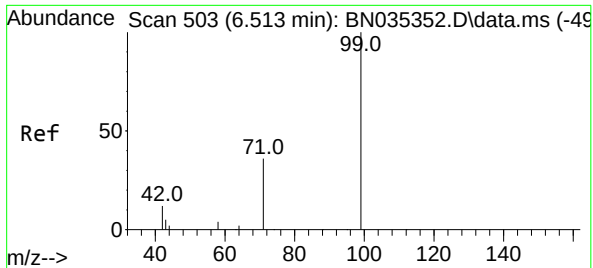
Reviewed By :Jagrut Upadhyay 12/23/2024  
Supervised By :mohammad ahmed 12/24/2024



#4  
2-Fluorophenol  
Concen: 0.384 ng  
RT: 4.932 min Scan# 284  
Delta R.T. -0.007 min  
Lab File: BN035765.D  
Acq: 21 Dec 2024 05:10

Tgt Ion:112 Resp: 3403  
Ion Ratio Lower Upper  
112 100  
64 51.2 39.8 59.8  
63 28.0 21.0 31.6





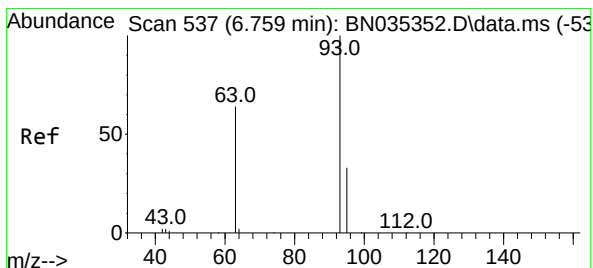
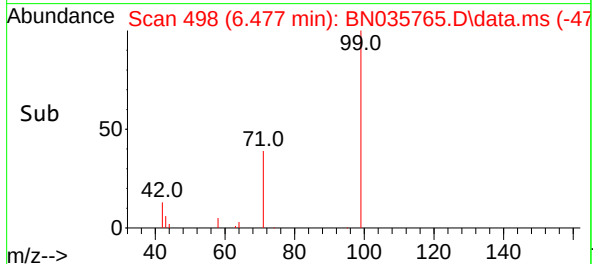
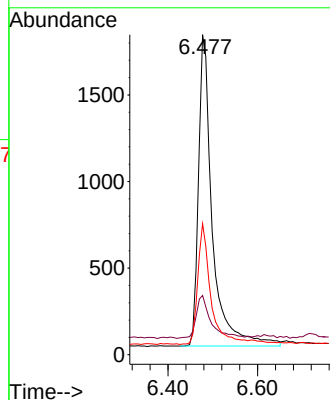
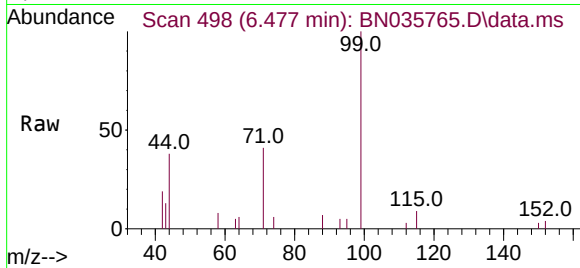
#5  
Phenol-d6  
Concen: 0.364 ng  
RT: 6.477 min Scan# 498  
Delta R.T. -0.015 min  
Lab File: BN035765.D  
Acq: 21 Dec 2024 05:10

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

Tgt Ion: 99 Resp: 3879  
Ion Ratio Lower Upper  
99 100  
42 14.6 11.4 17.2  
71 35.9 29.3 43.9

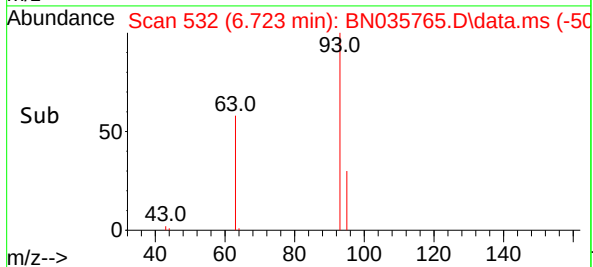
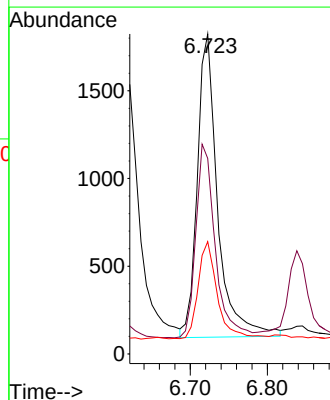
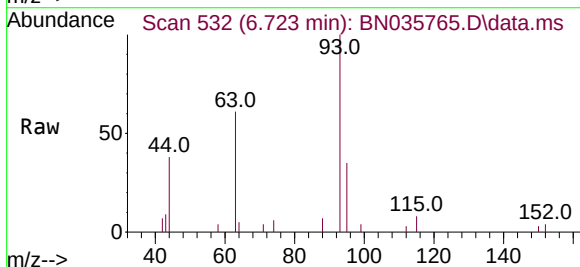
Manual Integrations  
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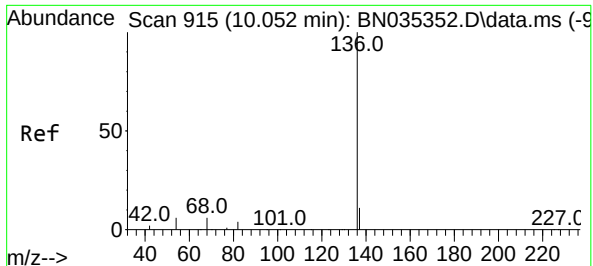
Reviewed By :Jagrut Upadhyay 12/23/2024  
Supervised By :mohammad ahmed 12/24/2024



#6  
bis(2-Chloroethyl)ether  
Concen: 0.353 ng  
RT: 6.723 min Scan# 532  
Delta R.T. -0.007 min  
Lab File: BN035765.D  
Acq: 21 Dec 2024 05:10

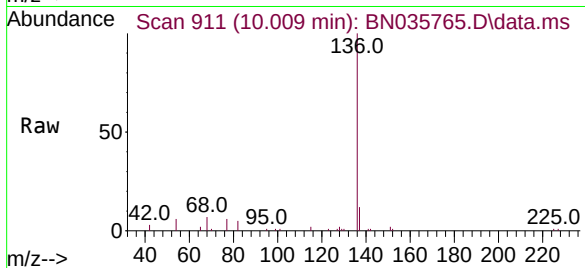
Tgt Ion: 93 Resp: 3165  
Ion Ratio Lower Upper  
93 100  
63 61.5 50.4 75.6  
95 30.6 25.7 38.5





#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.009 min Scan# 915  
Delta R.T. -0.011 min  
Lab File: BN035765.D  
Acq: 21 Dec 2024 05:10

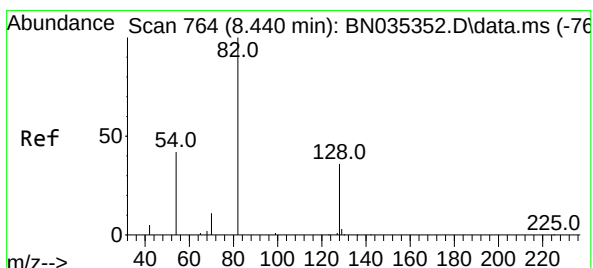
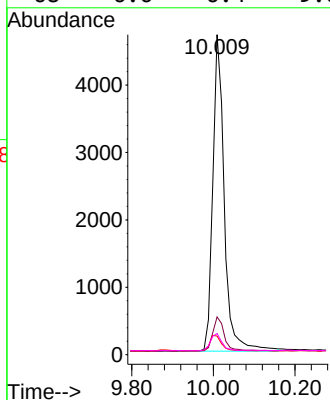
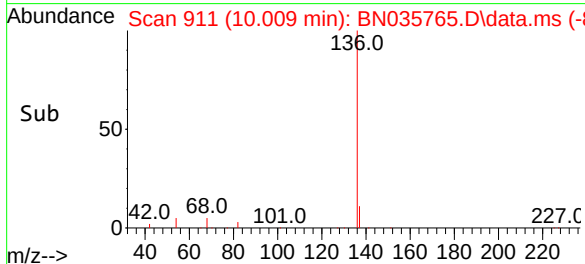
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC



Tgt Ion: 136 Resp: 9100  
Ion Ratio Lower Upper  
136 100  
137 11.8 10.2 15.2  
54 5.8 6.1 9.1  
68 6.6 6.4 9.6

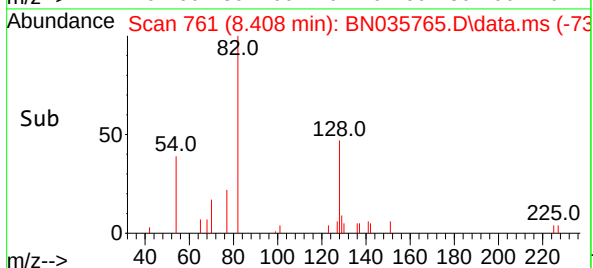
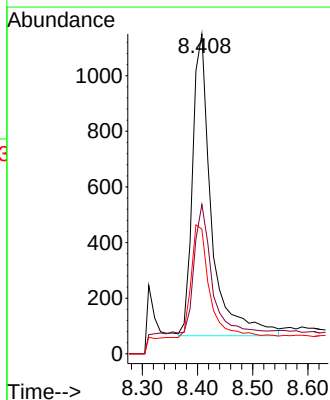
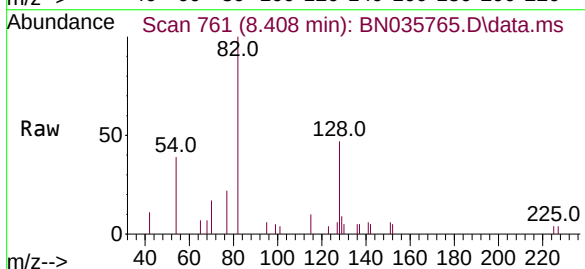
Manual Integrations  
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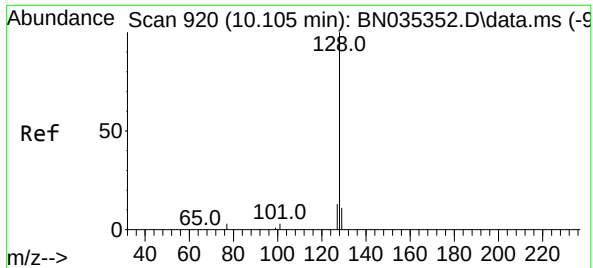


#8  
Nitrobenzene-d5  
Concen: 0.464 ng m  
RT: 8.408 min Scan# 761  
Delta R.T. -0.000 min  
Lab File: BN035765.D  
Acq: 21 Dec 2024 05:10

Tgt Ion: 82 Resp: 2582  
Ion Ratio Lower Upper  
82 100  
128 46.7 33.4 50.0  
54 39.0 36.7 55.1







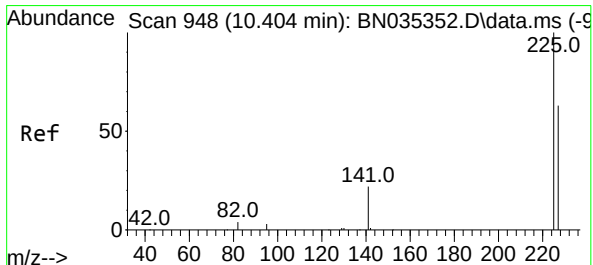
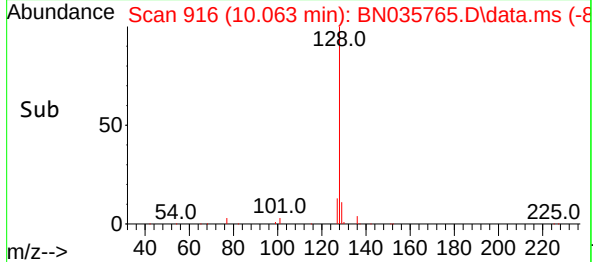
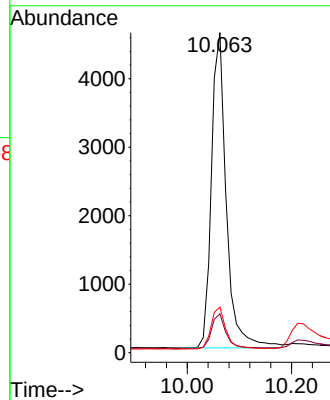
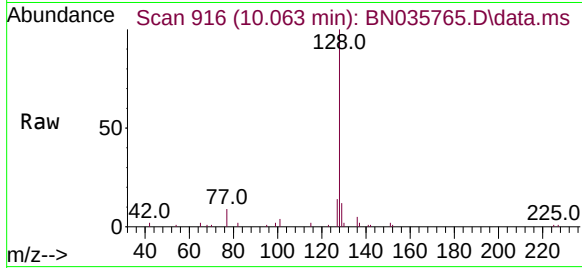
#9  
Naphthalene  
Concen: 0.379 ng  
RT: 10.063 min Scan# 916  
Delta R.T. -0.000 min  
Lab File: BN035765.D  
Acq: 21 Dec 2024 05:10

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

Tgt Ion:128 Resp: 909  
Ion Ratio Lower Upper  
128 100  
129 12.2 9.8 14.6  
127 14.3 11.4 17.2

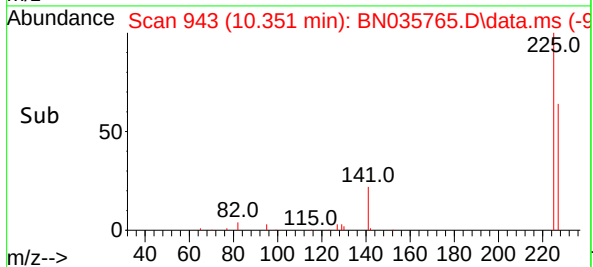
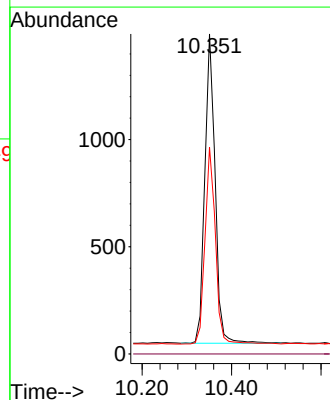
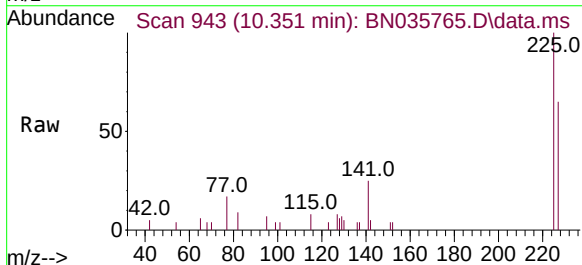
Manual Integrations  
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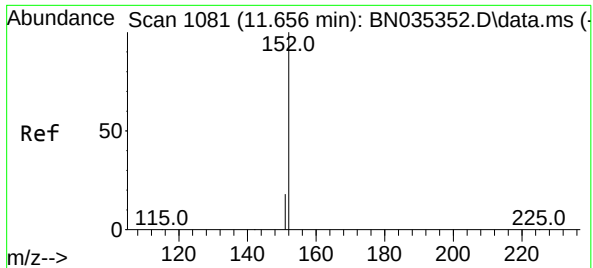
Reviewed By :Jagrut Upadhyay 12/23/2024  
Supervised By :mohammad ahmed 12/24/2024



#10  
Hexachlorobutadiene  
Concen: 0.415 ng  
RT: 10.351 min Scan# 943  
Delta R.T. -0.011 min  
Lab File: BN035765.D  
Acq: 21 Dec 2024 05:10

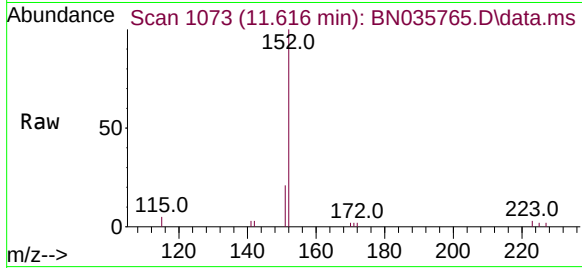
Tgt Ion:225 Resp: 2300  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 65.0 51.3 76.9





#11  
2-Methylnaphthalene-d10  
Concen: 0.369 ng  
RT: 11.616 min Scan# 1073  
Delta R.T. -0.005 min  
Lab File: BN035765.D  
Acq: 21 Dec 2024 05:10

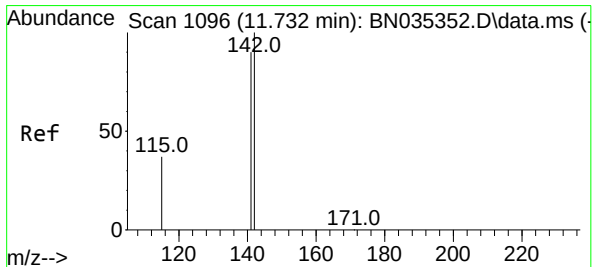
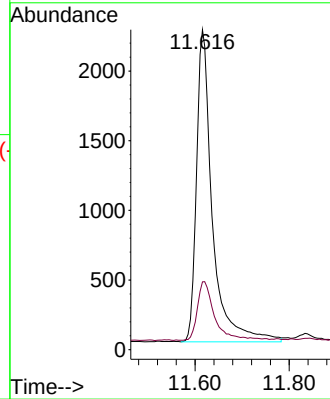
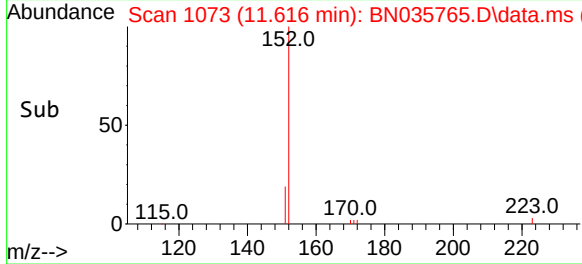
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC



Tgt Ion:152 Resp: 526  
Ion Ratio Lower Upper  
152 100  
151 19.7 16.6 25.0

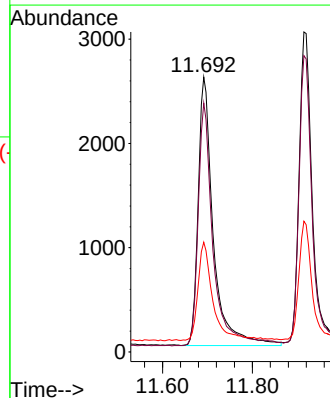
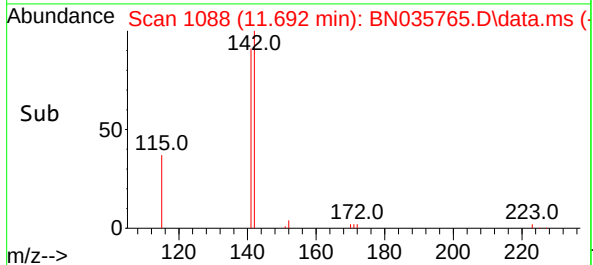
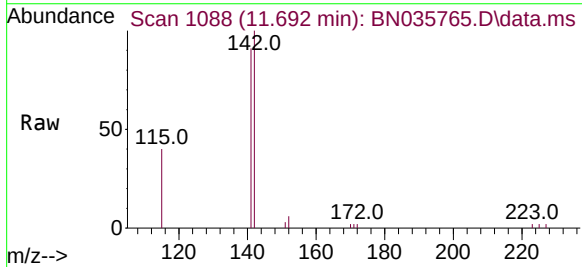
Manual Integrations  
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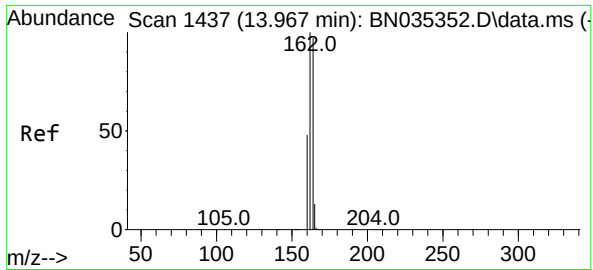
Reviewed By :Jagrut Upadhyay 12/23/2024  
Supervised By :mohammad ahmed 12/24/2024



#12  
2-Methylnaphthalene  
Concen: 0.350 ng  
RT: 11.692 min Scan# 1088  
Delta R.T. -0.005 min  
Lab File: BN035765.D  
Acq: 21 Dec 2024 05:10

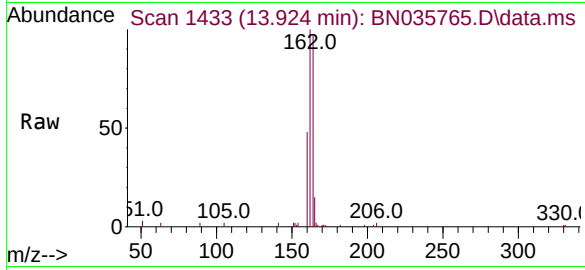
Tgt Ion:142 Resp: 6016  
Ion Ratio Lower Upper  
142 100  
141 90.5 72.2 108.4  
115 39.9 31.4 47.0





#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.924 min Scan# 1433  
Delta R.T. -0.011 min  
Lab File: BN035765.D  
Acq: 21 Dec 2024 05:10

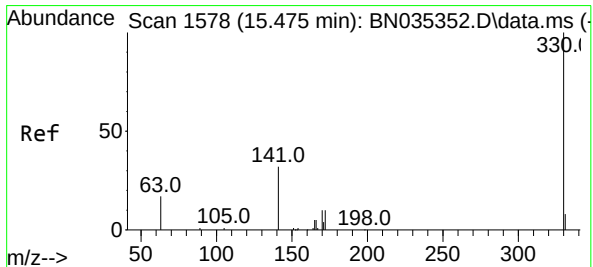
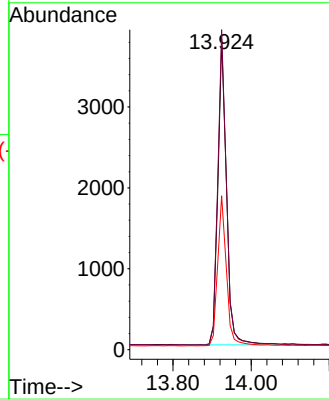
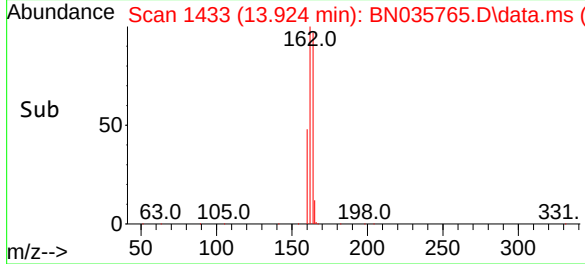
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC



Tgt Ion:164 Resp: 582  
Ion Ratio Lower Upper  
164 100  
162 103.2 82.2 123.2  
160 49.6 40.1 60.1

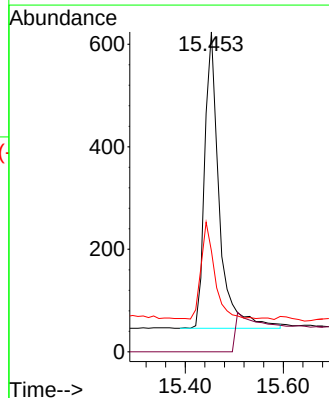
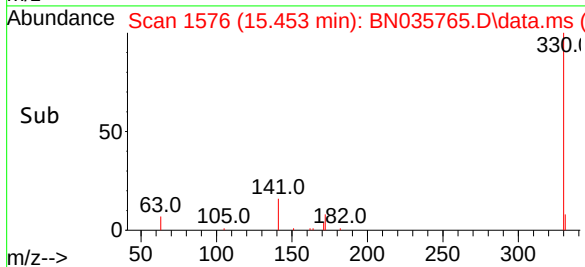
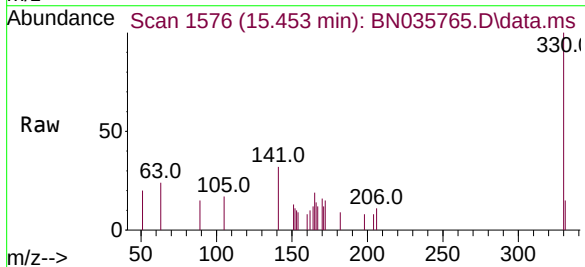
Manual Integrations  
**APPROVED**

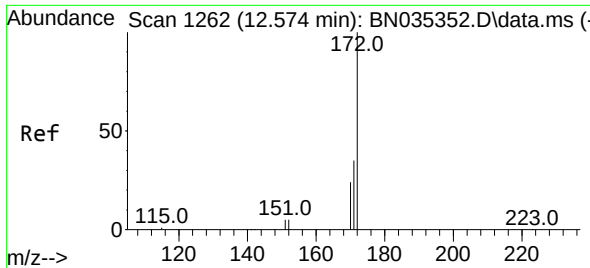
Reviewed By :Jagrut Upadhyay 12/23/2024  
Supervised By :mohammad ahmed 12/24/2024



#14  
2,4,6-Tribromophenol  
Concen: 0.303 ng  
RT: 15.453 min Scan# 1576  
Delta R.T. -0.000 min  
Lab File: BN035765.D  
Acq: 21 Dec 2024 05:10

Tgt Ion:330 Resp: 1253  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 29.6 26.6 40.0





#15

2-Fluorobiphenyl

Concen: 0.367 ng

RT: 12.538 min Scan# 11

Delta R.T. -0.005 min

Lab File: BN035765.D

Acq: 21 Dec 2024 05:10

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC

Tgt Ion:172 Resp: 8084

Ion Ratio Lower Upper

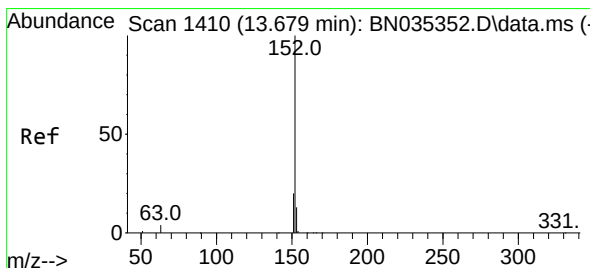
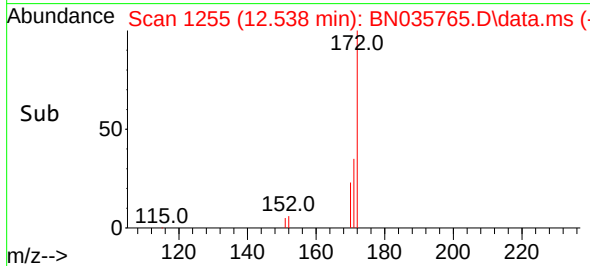
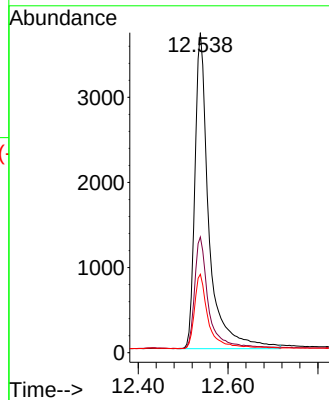
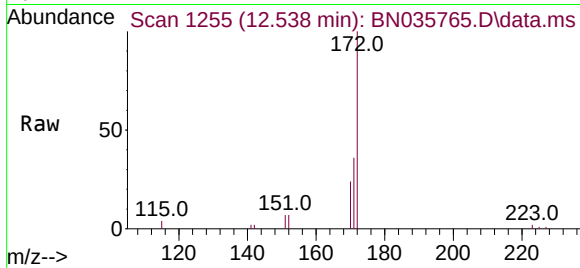
172 100

171 36.1 29.0 43.4

170 24.5 19.8 29.8

Manual Integrations

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Reviewed By :Jagrut Upadhyay 12/23/2024  
Supervised By :mohammad ahmed 12/24/2024

#16

Acenaphthylene

Concen: 0.359 ng

RT: 13.636 min Scan# 1406

Delta R.T. -0.011 min

Lab File: BN035765.D

Acq: 21 Dec 2024 05:10

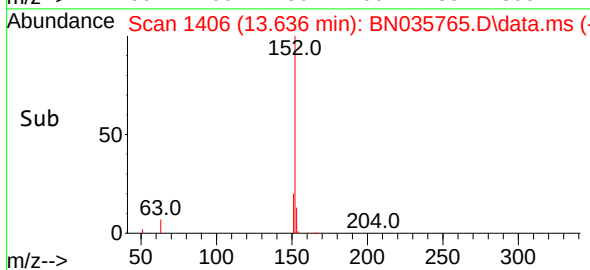
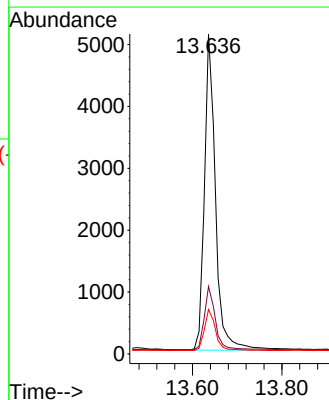
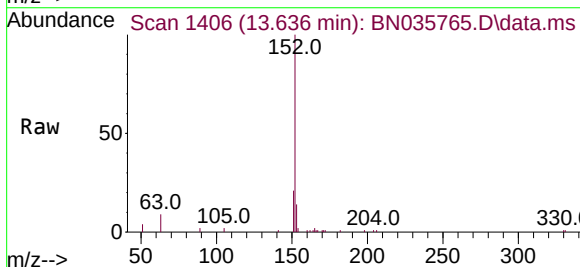
Tgt Ion:152 Resp: 8764

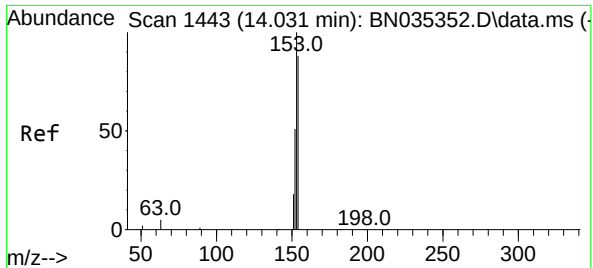
Ion Ratio Lower Upper

152 100

151 19.7 16.2 24.2

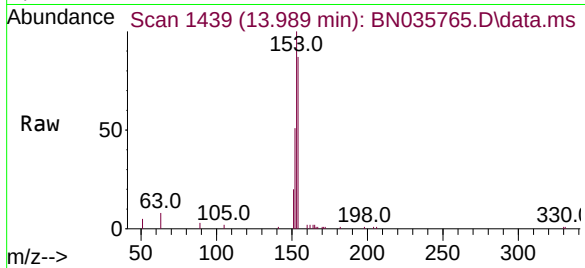
153 13.0 10.4 15.6





#17  
Acenaphthene  
Concen: 0.373 ng  
RT: 13.989 min Scan# 1443  
Delta R.T. -0.011 min  
Lab File: BN035765.D  
Acq: 21 Dec 2024 05:10

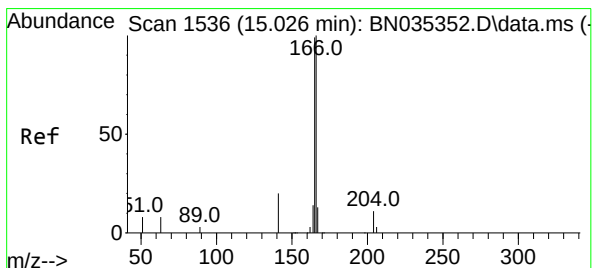
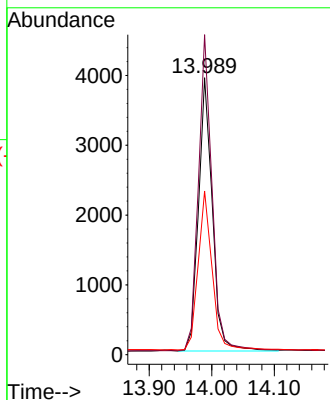
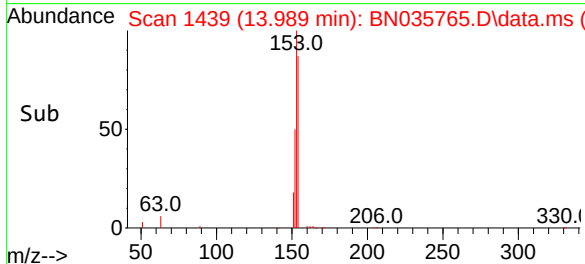
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC



Tgt Ion:154 Resp: 604  
Ion Ratio Lower Upper  
154 100  
153 114.7 92.6 139.0  
152 58.8 49.0 73.6

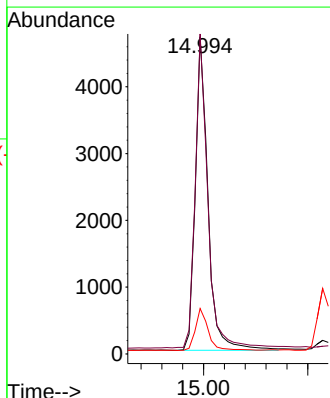
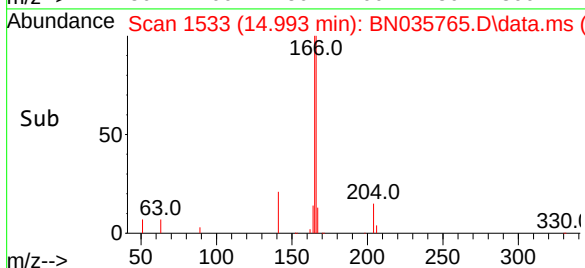
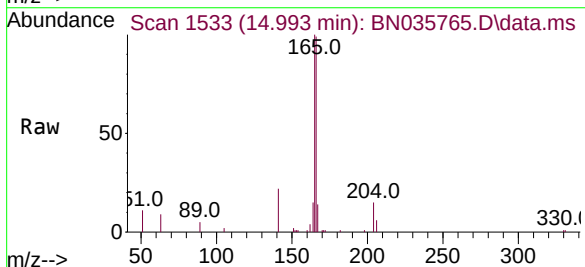
Manual Integrations  
**APPROVED**

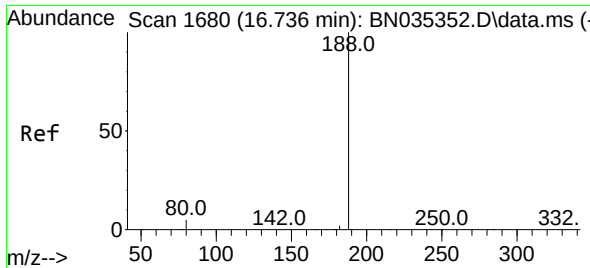
Reviewed By :Jagrut Upadhyay 12/23/2024  
Supervised By :mohammad ahmed 12/24/2024



#18  
Fluorene  
Concen: 0.342 ng  
RT: 14.993 min Scan# 1533  
Delta R.T. -0.011 min  
Lab File: BN035765.D  
Acq: 21 Dec 2024 05:10

Tgt Ion:166 Resp: 7942  
Ion Ratio Lower Upper  
166 100  
165 99.1 79.7 119.5  
167 13.6 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.698 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN035765.D

Acq: 21 Dec 2024 05:10

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC

Tgt Ion:188 Resp: 1232

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

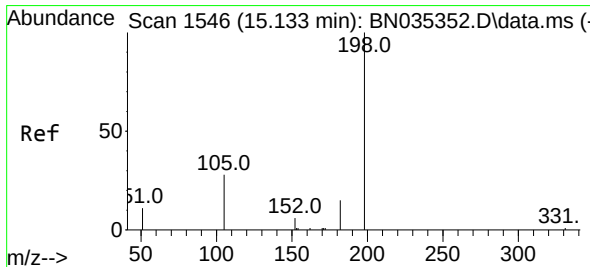
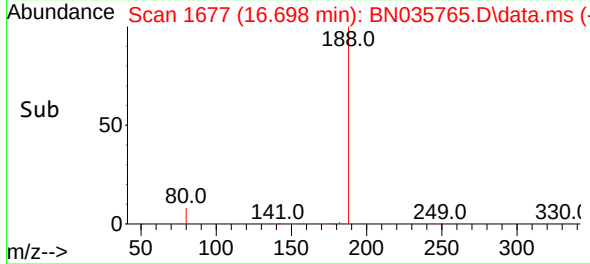
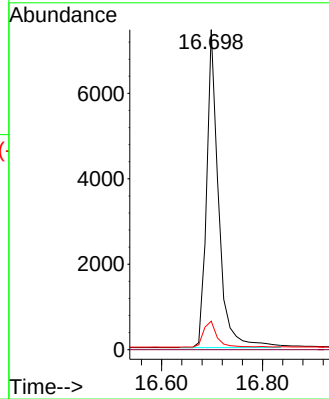
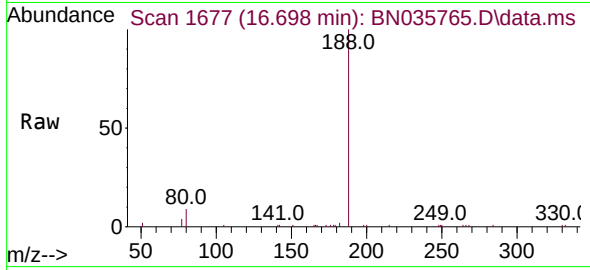
80 8.9 4.6 6.8

Manual Integrations

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Reviewed By :Jagrut Upadhyay 12/23/2024

Supervised By :mohammad ahmed 12/24/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 0.117 ng

RT: 15.132 min Scan# 1546

Delta R.T. 0.011 min

Lab File: BN035765.D

Acq: 21 Dec 2024 05:10

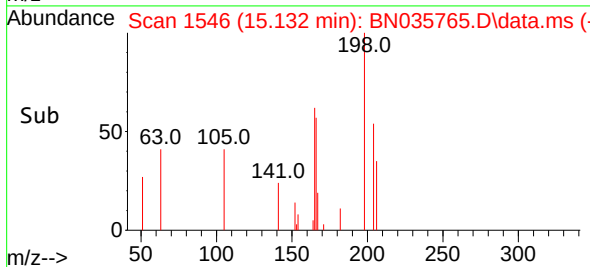
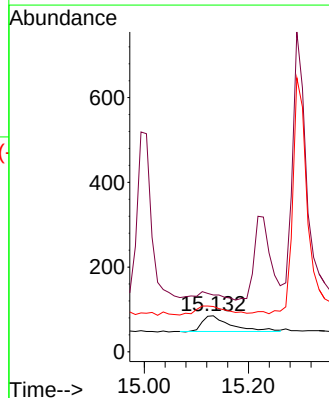
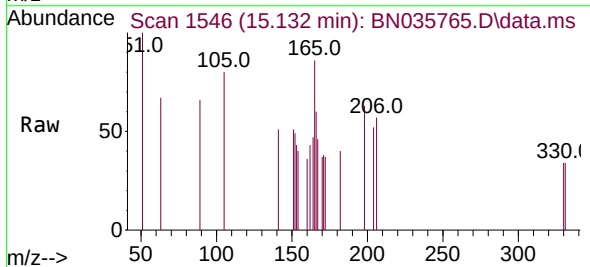
Tgt Ion:198 Resp: 142

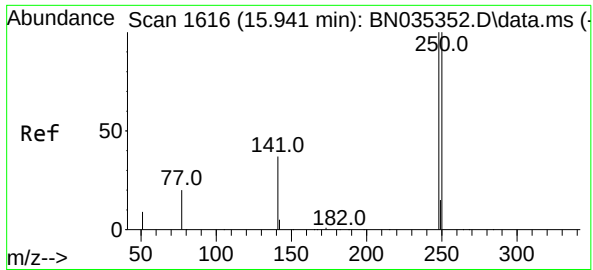
Ion Ratio Lower Upper

198 100

51 157.6 46.5 69.7#

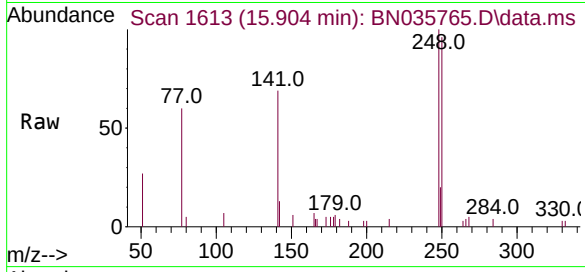
105 125.9 45.3 67.9#





#21  
4-Bromophenyl-phenylether  
Concen: 0.351 ng  
RT: 15.904 min Scan# 1613  
Delta R.T. -0.013 min  
Lab File: BN035765.D  
Acq: 21 Dec 2024 05:10

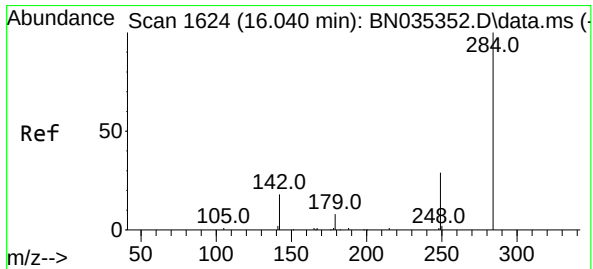
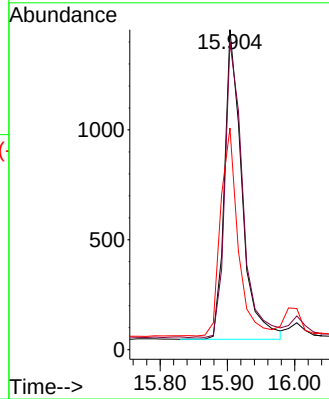
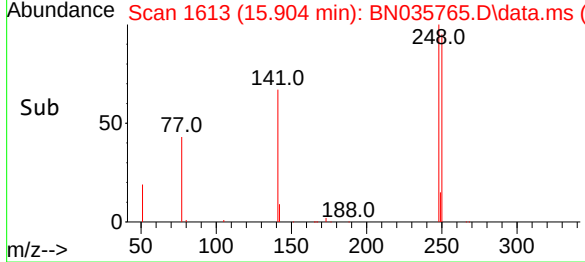
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC



Tgt Ion:248 Resp: 253  
Ion Ratio Lower Upper  
248 100  
250 96.2 80.6 120.8  
141 69.2 31.5 47.3

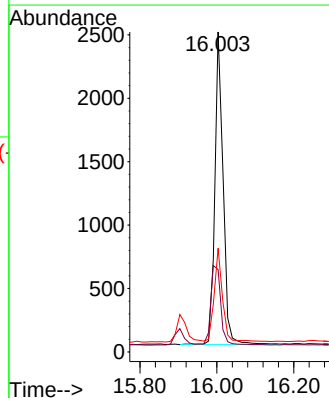
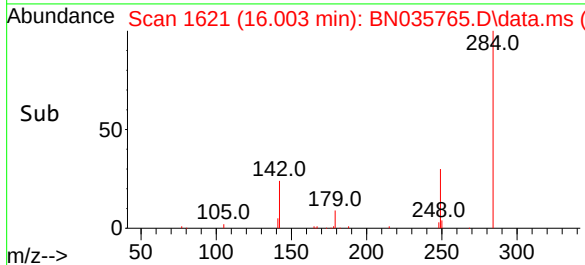
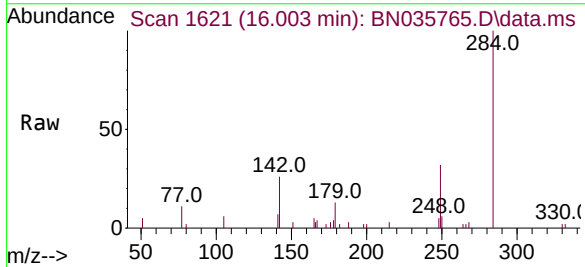
Manual Integrations  
**APPROVED**

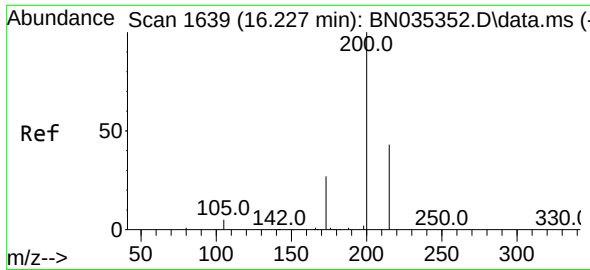
Reviewed By :Jagrut Upadhyay 12/23/2024  
Supervised By :mohammad ahmed 12/24/2024



#22  
Hexachlorobenzene  
Concen: 0.433 ng  
RT: 16.003 min Scan# 1621  
Delta R.T. -0.013 min  
Lab File: BN035765.D  
Acq: 21 Dec 2024 05:10

Tgt Ion:284 Resp: 3667  
Ion Ratio Lower Upper  
284 100  
142 30.7 26.7 40.1  
249 29.9 24.6 36.8





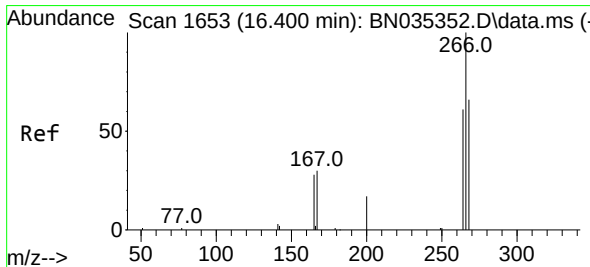
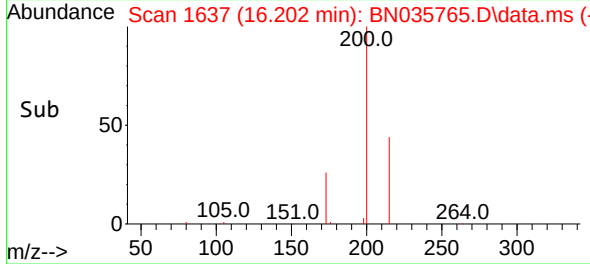
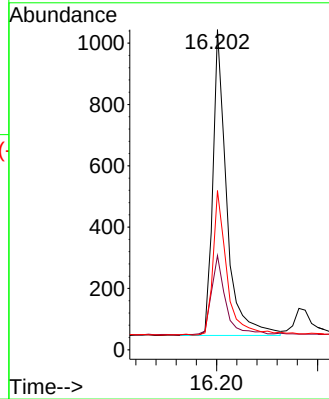
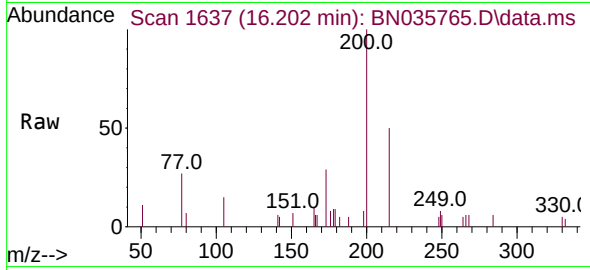
#23  
Atrazine  
Concen: 0.369 ng  
RT: 16.202 min Scan# 1637  
Delta R.T. -0.000 min  
Lab File: BN035765.D  
Acq: 21 Dec 2024 05:10

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

Tgt Ion:200 Resp: 189  
Ion Ratio Lower Upper  
200 100  
173 29.4 24.1 36.1  
215 49.7 36.9 55.3

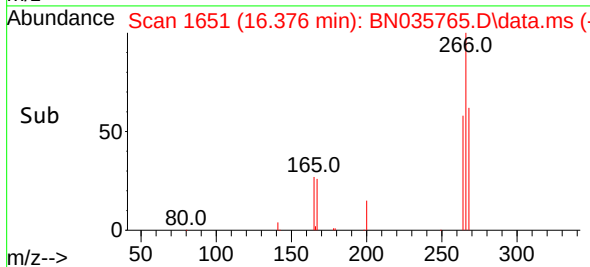
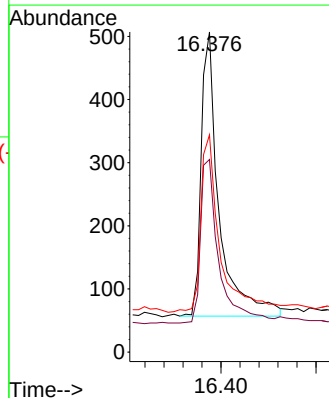
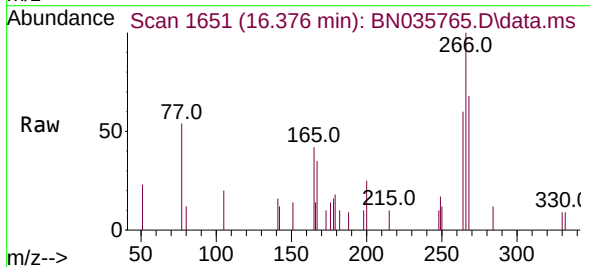
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Supervised By :mohammad ahmed 12/24/2024

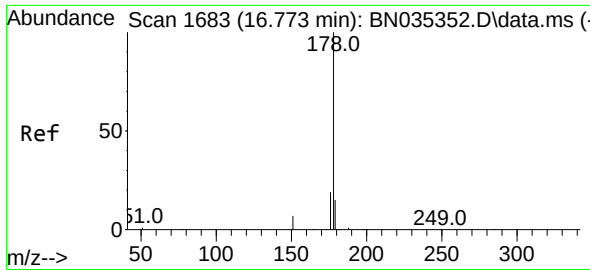


#24  
Pentachlorophenol  
Concen: 0.320 ng  
RT: 16.376 min Scan# 1651  
Delta R.T. -0.000 min  
Lab File: BN035765.D  
Acq: 21 Dec 2024 05:10

Tgt Ion:266 Resp: 1177  
Ion Ratio Lower Upper  
266 100  
264 59.3 42.3 63.5  
268 67.2 43.3 64.9#

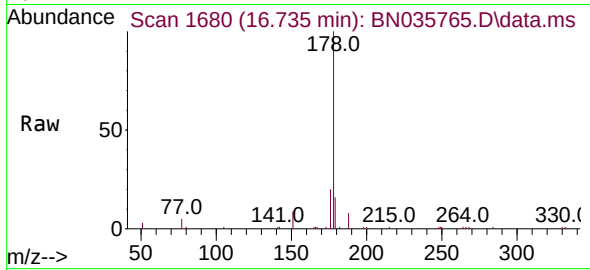






#25  
Phenanthrene  
Concen: 0.365 ng  
RT: 16.735 min Scan# 1680  
Delta R.T. -0.013 min  
Lab File: BN035765.D  
Acq: 21 Dec 2024 05:10

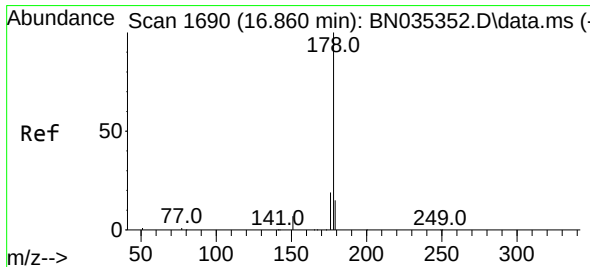
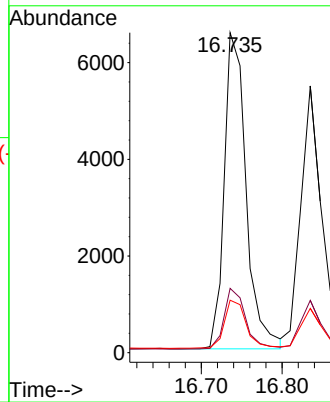
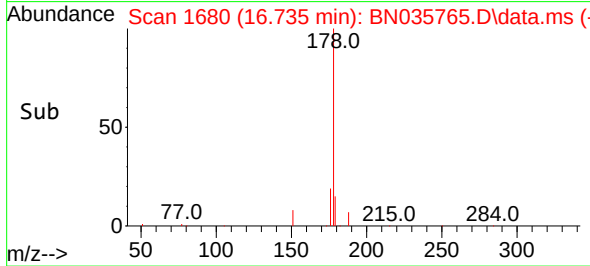
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC



Tgt Ion:178 Resp: 12350  
Ion Ratio Lower Upper  
178 100  
176 18.8 15.4 23.2  
179 15.4 12.3 18.5

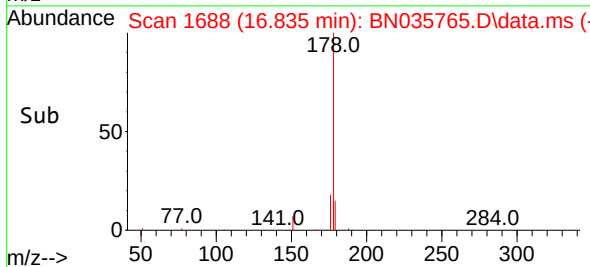
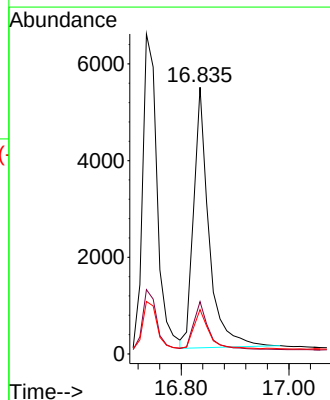
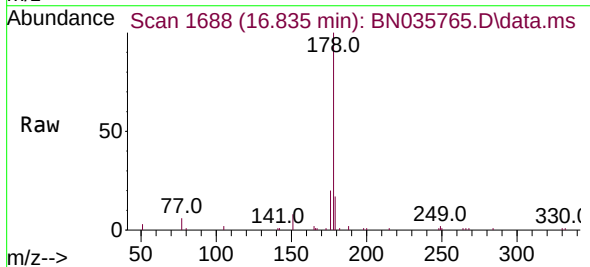
Manual Integrations  
**APPROVED**

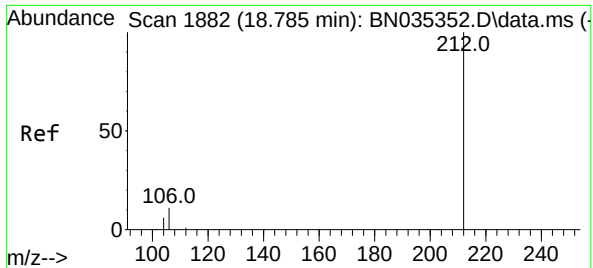
Reviewed By :Jagrut Upadhyay 12/23/2024  
Supervised By :mohammad ahmed 12/24/2024



#26  
Anthracene  
Concen: 0.347 ng  
RT: 16.835 min Scan# 1688  
Delta R.T. -0.000 min  
Lab File: BN035765.D  
Acq: 21 Dec 2024 05:10

Tgt Ion:178 Resp: 10612  
Ion Ratio Lower Upper  
178 100  
176 18.5 15.0 22.6  
179 15.2 12.6 18.8





#27

Fluoranthene-d10

Concen: 0.349 ng

RT: 18.757 min Scan# 1876

Delta R.T. -0.005 min

Lab File: BN035765.D

Acq: 21 Dec 2024 05:10

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC

Tgt Ion:212 Resp: 1219

Ion Ratio Lower Upper

212 100

106 11.4 9.2 13.8

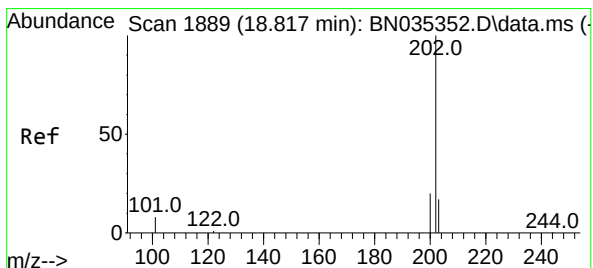
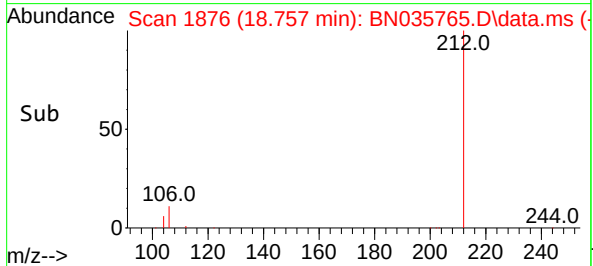
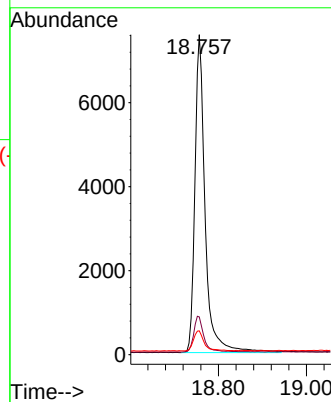
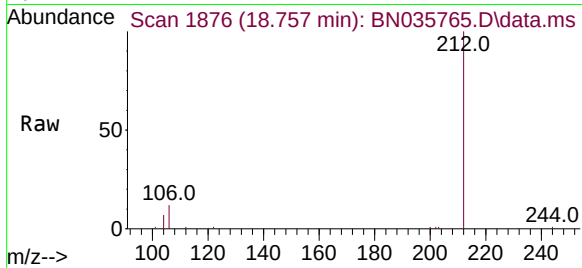
104 6.5 5.3 7.9

Manual Integrations

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Reviewed By :Jagrut Upadhyay 12/23/2024

Supervised By :mohammad ahmed 12/24/2024



#28

Fluoranthene

Concen: 0.337 ng

RT: 18.789 min Scan# 1883

Delta R.T. -0.000 min

Lab File: BN035765.D

Acq: 21 Dec 2024 05:10

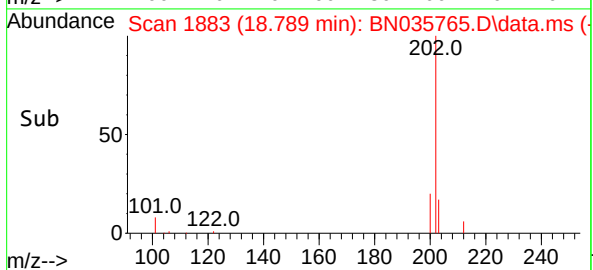
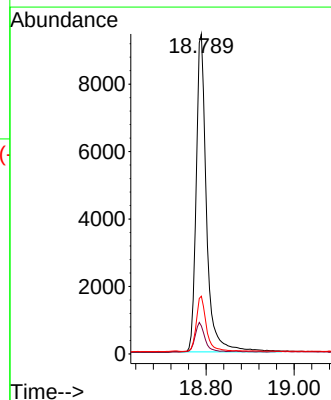
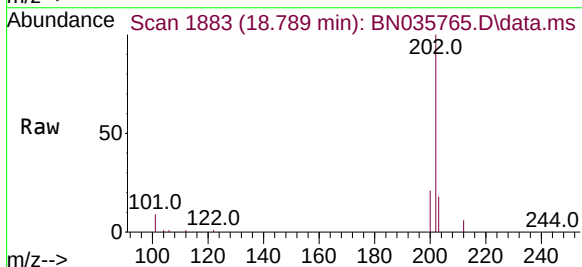
Tgt Ion:202 Resp: 15375

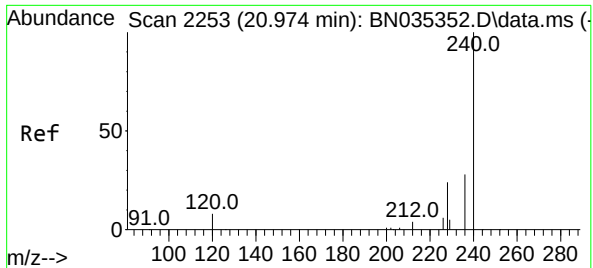
Ion Ratio Lower Upper

202 100

101 9.2 7.4 11.0

203 16.8 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.947 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035765.D

Acq: 21 Dec 2024 05:10

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC

Tgt Ion:240 Resp: 9830

Ion Ratio Lower Upper

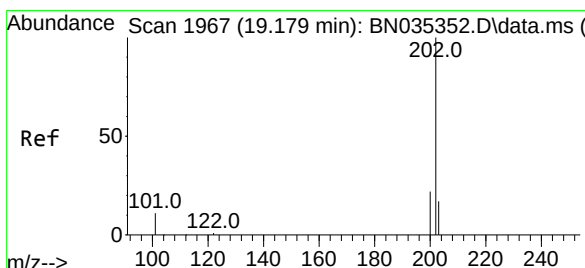
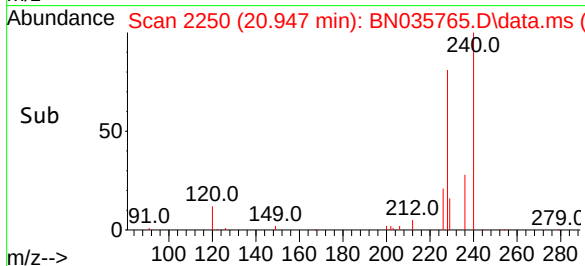
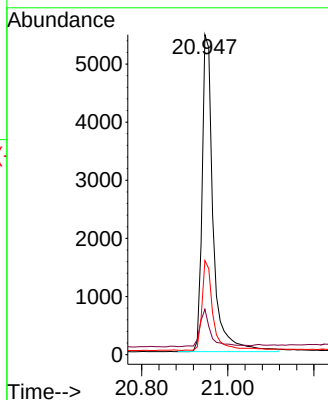
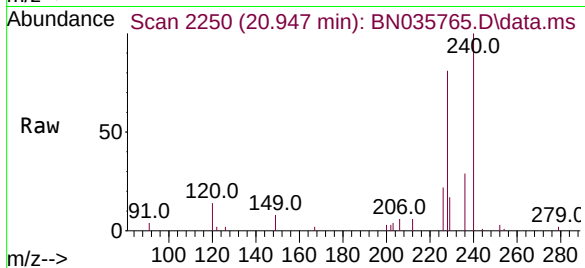
240 100

120 14.2 7.9 11.9

236 29.4 22.9 34.3

Manual Integrations

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Reviewed By :Jagrut Upadhyay 12/23/2024  
Supervised By :mohammad ahmed 12/24/2024

#30

Pyrene

Concen: 0.429 ng

RT: 19.156 min Scan# 1962

Delta R.T. -0.005 min

Lab File: BN035765.D

Acq: 21 Dec 2024 05:10

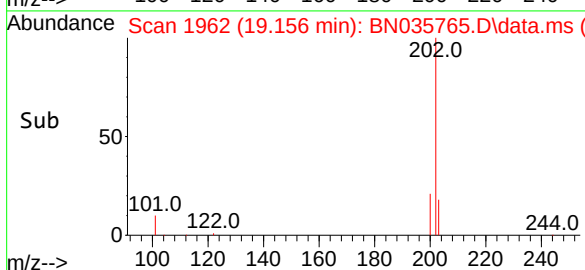
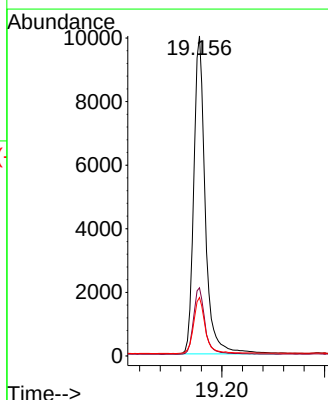
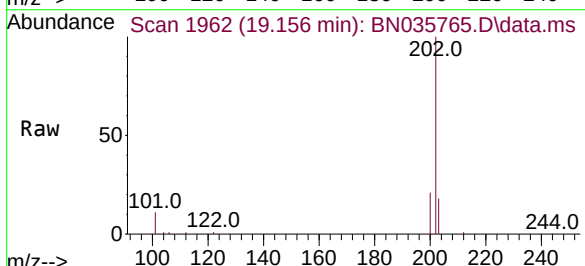
Tgt Ion:202 Resp: 15587

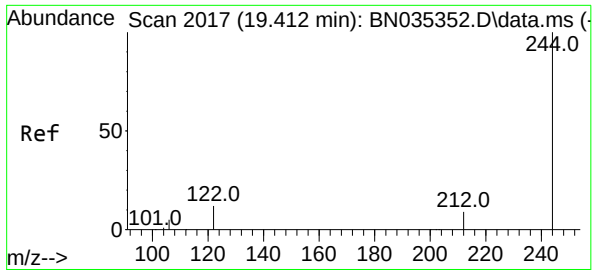
Ion Ratio Lower Upper

202 100

200 21.1 17.0 25.4

203 18.0 14.3 21.5





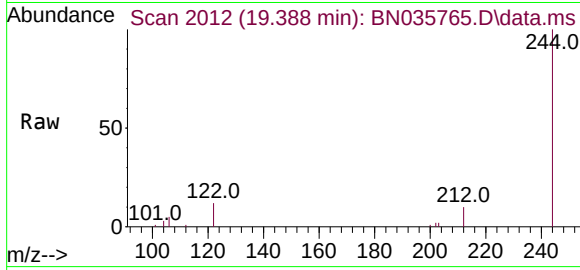
#31  
Terphenyl-d14  
Concen: 0.437 ng  
RT: 19.388 min Scan# 2017  
Delta R.T. -0.000 min  
Lab File: BN035765.D  
Acq: 21 Dec 2024 05:10

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC

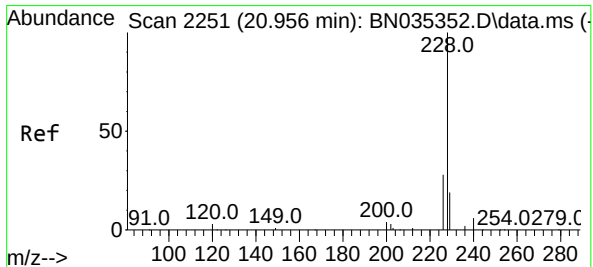
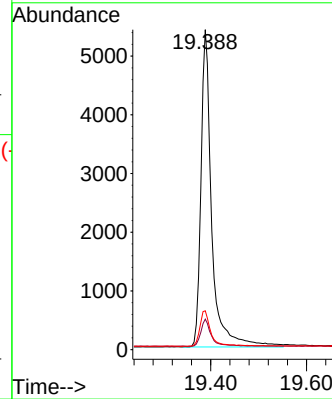
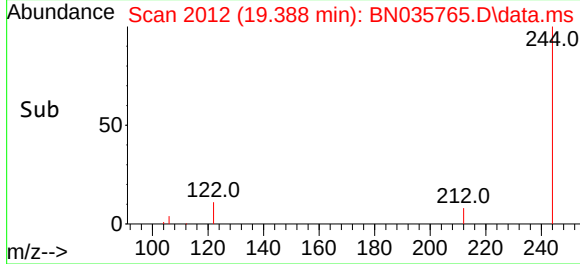


Tgt Ion:244 Resp: 848  
Ion Ratio Lower Upper  
244 100  
212 9.6 8.1 12.1  
122 12.1 10.3 15.5

Manual Integrations

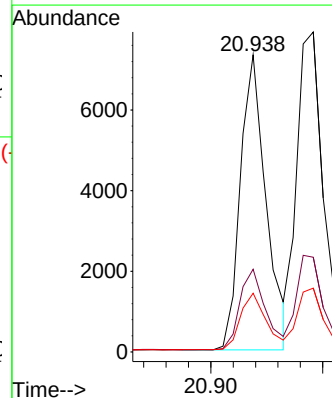
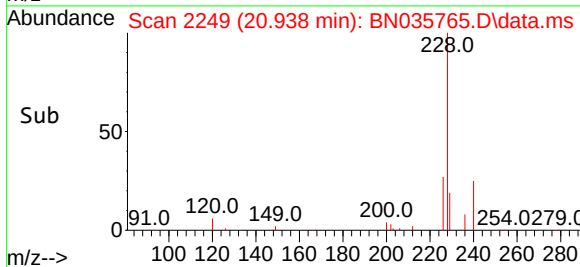
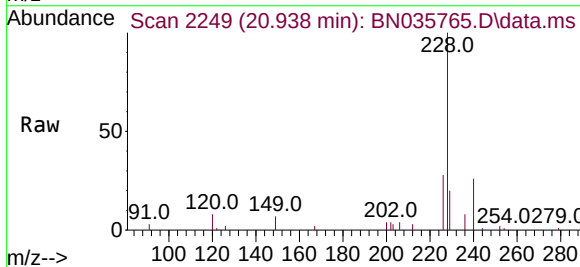
APPROVED

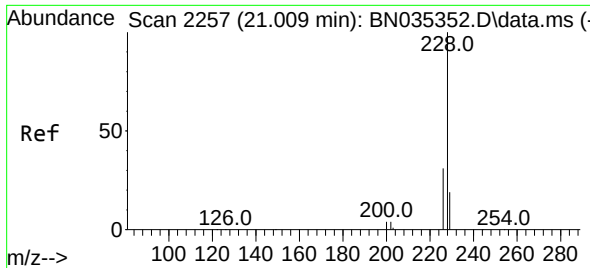
Reviewed By :Jagrut Upadhyay 12/23/2024  
Supervised By :mohammad ahmed 12/24/2024



#32  
Benzo(a)anthracene  
Concen: 0.339 ng  
RT: 20.938 min Scan# 2249  
Delta R.T. -0.000 min  
Lab File: BN035765.D  
Acq: 21 Dec 2024 05:10

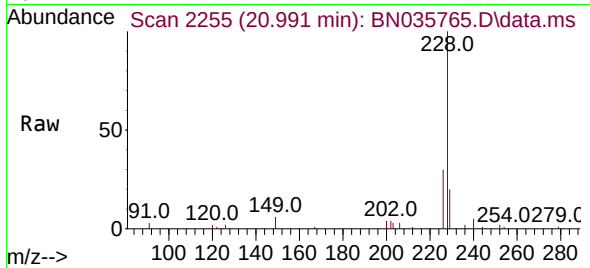
Tgt Ion:228 Resp: 11659  
Ion Ratio Lower Upper  
228 100  
226 27.9 22.5 33.7  
229 19.8 15.8 23.8





#33  
Chrysene  
Concen: 0.402 ng  
RT: 20.991 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: BN035765.D  
Acq: 21 Dec 2024 05:10

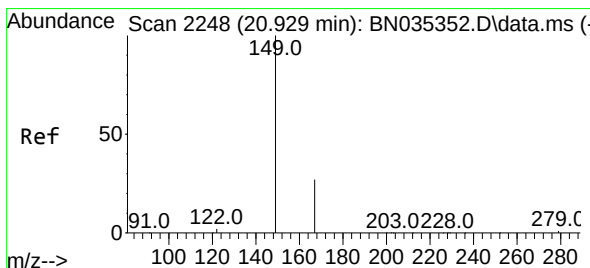
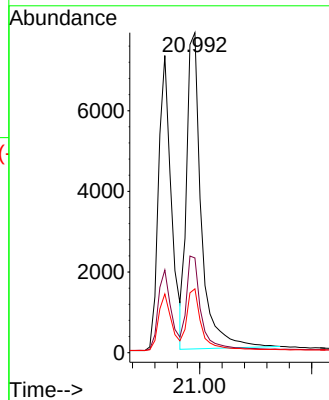
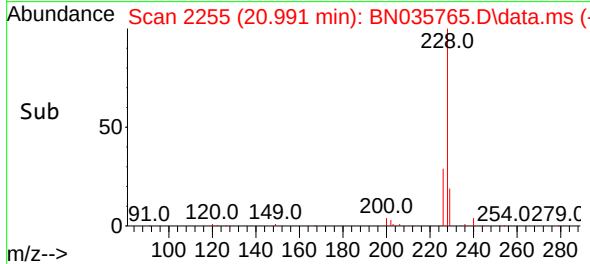
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC



Tgt Ion:228 Resp: 1426  
Ion Ratio Lower Upper  
228 100  
226 29.6 24.6 37.0  
229 20.0 15.9 23.9

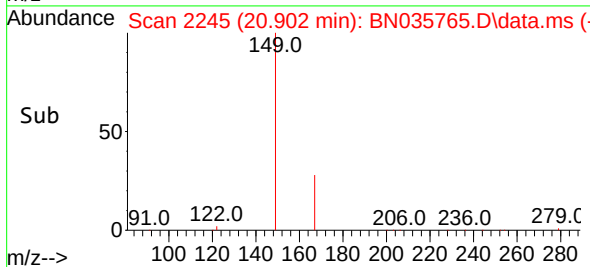
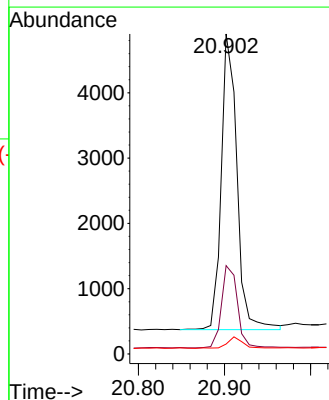
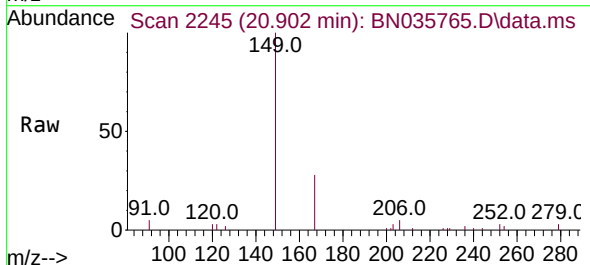
Manual Integrations  
**APPROVED**

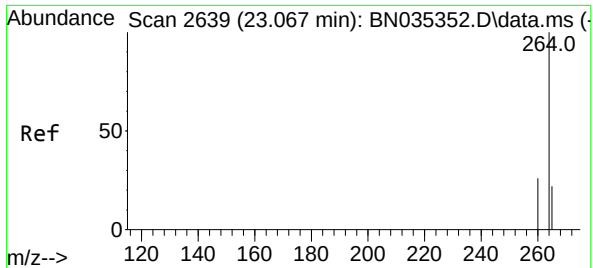
Reviewed By :Jagrut Upadhyay 12/23/2024  
Supervised By :mohammad ahmed 12/24/2024



#34  
Bis(2-ethylhexyl)phthalate  
Concen: 0.419 ng  
RT: 20.902 min Scan# 2245  
Delta R.T. -0.009 min  
Lab File: BN035765.D  
Acq: 21 Dec 2024 05:10

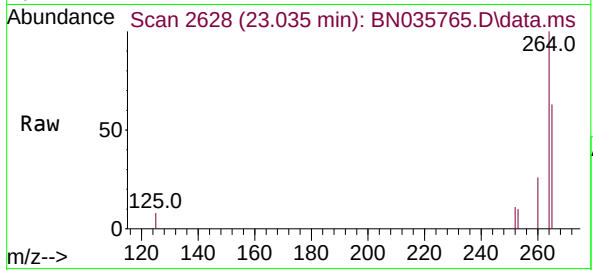
Tgt Ion:149 Resp: 5697  
Ion Ratio Lower Upper  
149 100  
167 28.5 22.2 33.4  
279 3.9 2.7 4.1





#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.035 min Scan# 2628  
Delta R.T. -0.006 min  
Lab File: BN035765.D  
Acq: 21 Dec 2024 05:10

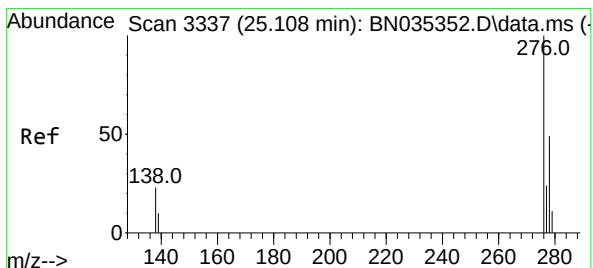
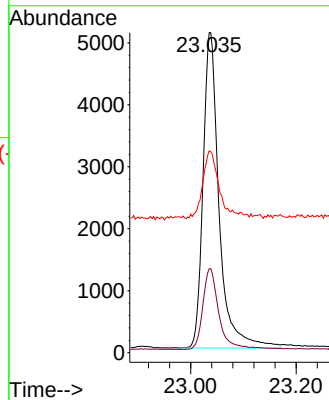
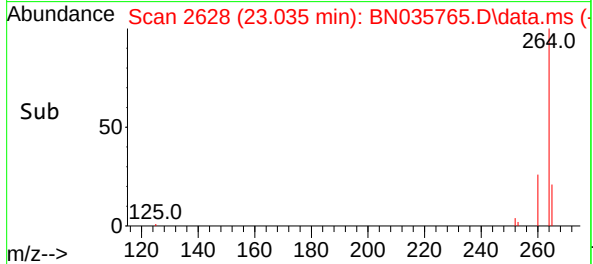
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC



Tgt Ion:264 Resp: 10740  
Ion Ratio Lower Upper  
264 100  
260 26.2 21.4 32.2  
265 63.0 40.2 60.4

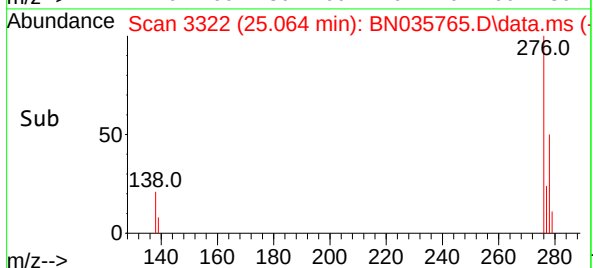
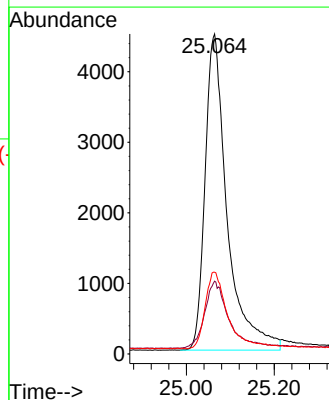
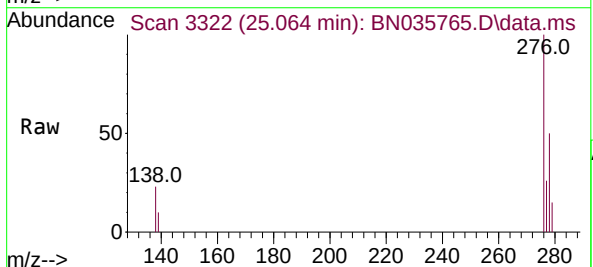
Manual Integrations  
APPROVED

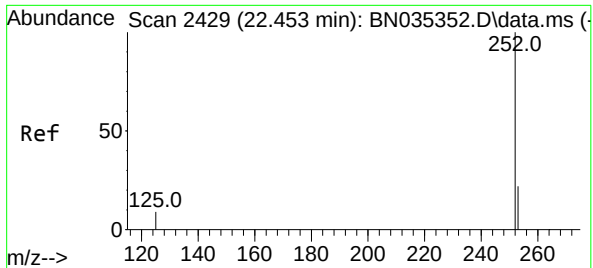
Reviewed By :Jagrut Upadhyay 12/23/2024  
Supervised By :mohammad ahmed 12/24/2024



#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.373 ng  
RT: 25.064 min Scan# 3322  
Delta R.T. -0.003 min  
Lab File: BN035765.D  
Acq: 21 Dec 2024 05:10

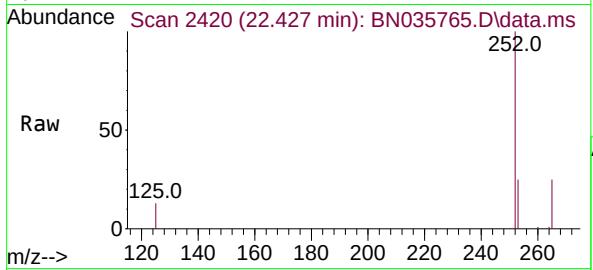
Tgt Ion:276 Resp: 15666  
Ion Ratio Lower Upper  
276 100  
138 22.9 19.4 29.0  
277 24.7 19.8 29.6





#37  
Benzo(b)fluoranthene  
Concen: 0.484 ng  
RT: 22.427 min Scan# 2420  
Delta R.T. -0.003 min  
Lab File: BN035765.D  
Acq: 21 Dec 2024 05:10

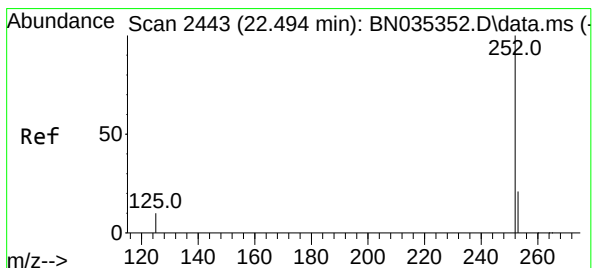
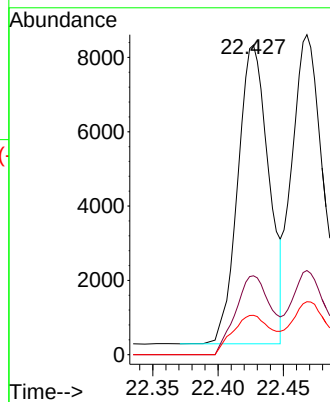
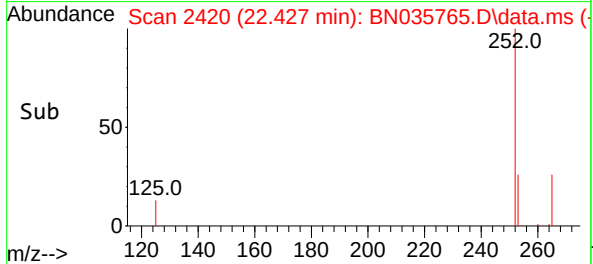
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC



Tgt Ion:252 Resp: 1900  
Ion Ratio Lower Upper  
252 100  
253 25.5 19.6 29.4  
125 12.7 9.6 14.4

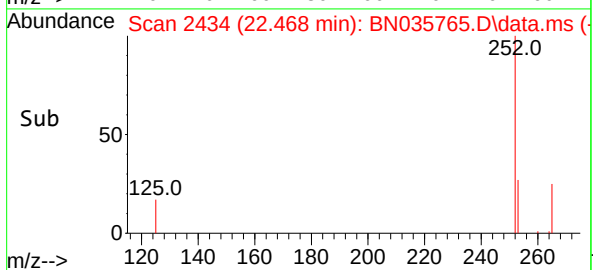
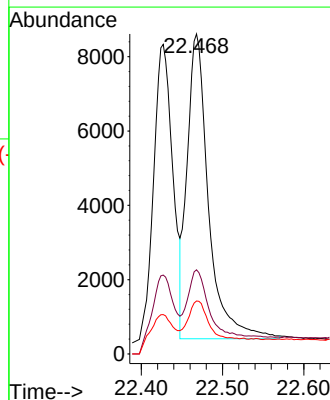
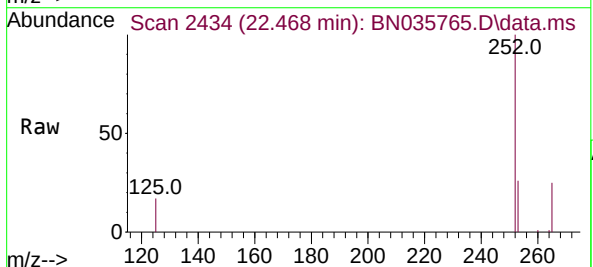
Manual Integrations  
**APPROVED**

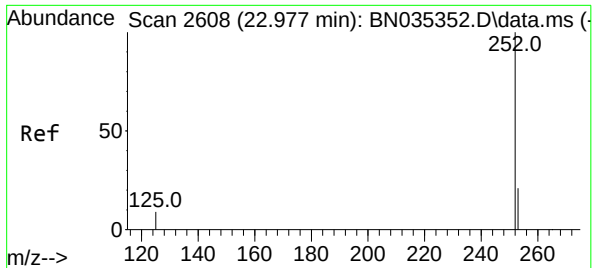
Reviewed By :Jagrut Upadhyay 12/23/2024  
Supervised By :mohammad ahmed 12/24/2024



#38  
Benzo(k)fluoranthene  
Concen: 0.388 ng m  
RT: 22.468 min Scan# 2434  
Delta R.T. -0.003 min  
Lab File: BN035765.D  
Acq: 21 Dec 2024 05:10

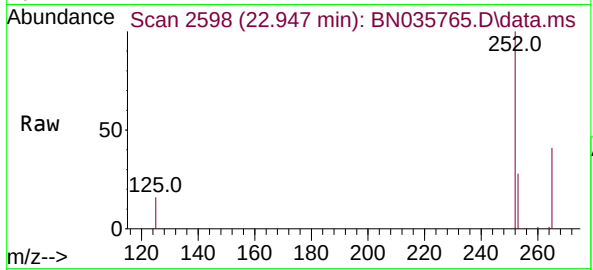
Tgt Ion:252 Resp: 15020  
Ion Ratio Lower Upper  
252 100  
253 26.3 19.5 29.3  
125 16.6 10.2 15.4#





#39  
Benzo(a)pyrene  
Concen: 0.363 ng  
RT: 22.947 min Scan# 2174  
Delta R.T. -0.003 min  
Lab File: BN035765.D  
Acq: 21 Dec 2024 05:10

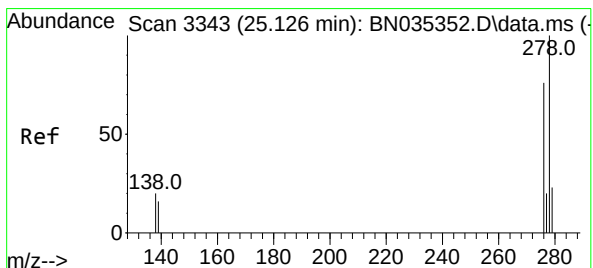
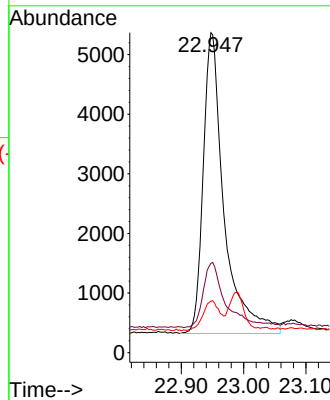
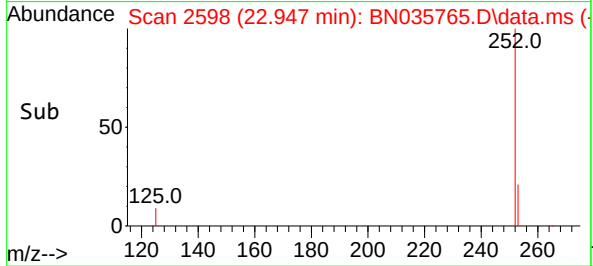
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC



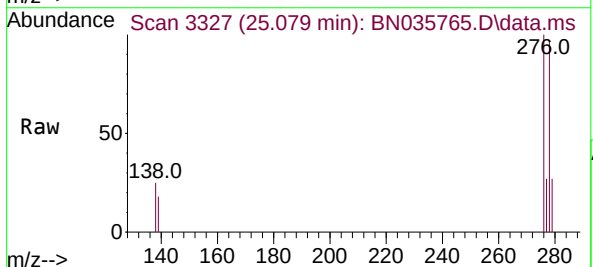
Tgt Ion:252 Resp: 1174  
Ion Ratio Lower Upper  
252 100  
253 27.9 20.2 30.4  
125 16.1 10.9 16.3

Manual Integrations  
**APPROVED**

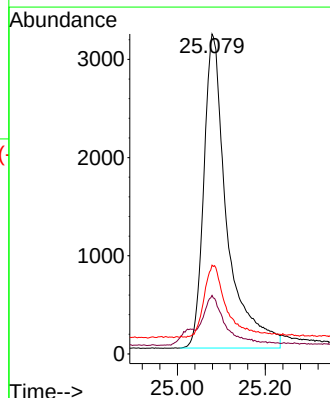
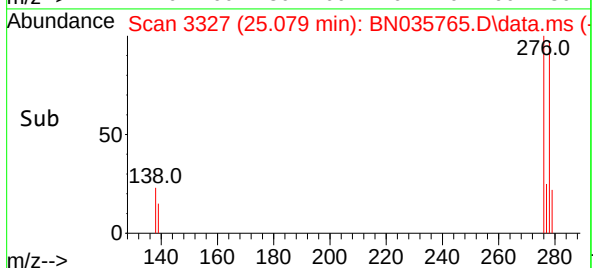
Reviewed By :Jagrut Upadhyay 12/23/2024  
Supervised By :mohammad ahmed 12/24/2024



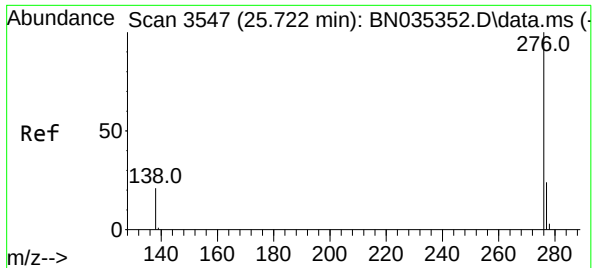
#40  
Dibenzo(a,h)anthracene  
Concen: 0.352 ng  
RT: 25.079 min Scan# 3327  
Delta R.T. -0.003 min  
Lab File: BN035765.D  
Acq: 21 Dec 2024 05:10



Tgt Ion:278 Resp: 11661  
Ion Ratio Lower Upper  
278 100  
139 18.3 14.2 21.4  
279 27.7 20.5 30.7







#41

Benzo(g,h,i)perylene

Concen: 0.411 ng

RT: 25.675 min Scan# 31

Delta R.T. -0.003 min

Lab File: BN035765.D

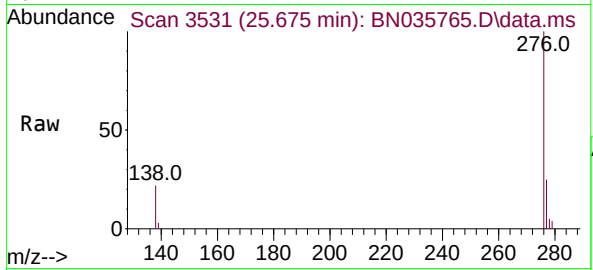
Acq: 21 Dec 2024 05:10

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC



Tgt Ion:276 Resp: 14230

Ion Ratio Lower Upper

276 100

277 25.2 19.9 29.9

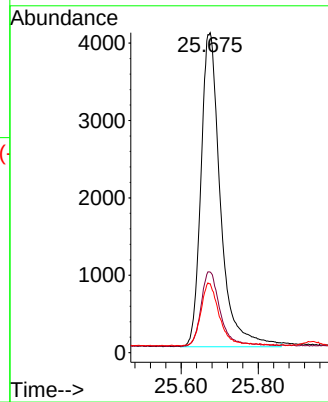
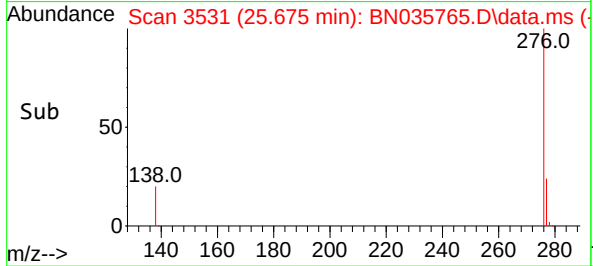
138 21.5 17.8 26.8

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 12/23/2024

Supervised By :mohammad ahmed 12/24/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN121924\  
 Data File : BN035765.D  
 Acq On : 21 Dec 2024 05:10  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 56 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 LabSampleId :  
 SSTDCCC0.4

Quant Time: Dec 21 05:39:14 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Dec 19 23:06:19 2024  
 Response via : Initial Calibration

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

|         | Compound                   | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|---------|----------------------------|-------|-------|-------|-------|----------|
| 1 I     | 1,4-Dichlorobenzene-d4     | 1.000 | 1.000 | 0.0   | 173#  | 0.00     |
| 2       | 1,4-Dioxane                | 0.382 | 0.439 | -14.9 | 202#  | 0.00     |
| 3       | n-Nitrosodimethylamine     | 0.319 | 0.311 | 2.5   | 165#  | 0.00     |
| 4 S     | 2-Fluorophenol             | 1.001 | 0.960 | 4.1   | 163#  | 0.00     |
| 5 S     | Phenol-d6                  | 1.204 | 1.094 | 9.1   | 159#  | -0.01    |
| 6       | bis(2-Chloroethyl)ether    | 1.012 | 0.893 | 11.8  | 156#  | 0.00     |
| 7 I     | Naphthalene-d8             | 1.000 | 1.000 | 0.0   | 174#  | -0.01    |
| 8 S     | Nitrobenzene-d5            | 0.244 | 0.284 | -16.4 | 210#  | 0.00     |
| 9       | Naphthalene                | 1.055 | 0.999 | 5.3   | 166#  | 0.00     |
| 10      | Hexachlorobutadiene        | 0.243 | 0.253 | -4.1  | 178#  | -0.01    |
| 11 SURR | 2-Methylnaphthalene-d10    | 0.626 | 0.578 | 7.7   | 163#  | 0.00     |
| 12      | 2-Methylnaphthalene        | 0.755 | 0.661 | 12.5  | 156#  | 0.00     |
| 13 I    | Acenaphthene-d10           | 1.000 | 1.000 | 0.0   | 153#  | -0.01    |
| 14 S    | 2,4,6-Tribromophenol       | 0.284 | 0.215 | 24.3  | 129   | 0.00     |
| 15 S    | 2-Fluorobiphenyl           | 1.512 | 1.389 | 8.1   | 141   | 0.00     |
| 16      | Acenaphthylene             | 1.680 | 1.506 | 10.4  | 145   | -0.01    |
| 17      | Acenaphthene               | 1.115 | 1.039 | 6.8   | 147   | -0.01    |
| 18      | Fluorene                   | 1.596 | 1.364 | 14.5  | 135   | -0.01    |
| 19 I    | Phenanthrene-d10           | 1.000 | 1.000 | 0.0   | 130   | 0.00     |
| 20      | 4,6-Dinitro-2-methylphenol | 0.039 | 0.012 | 69.2# | 42#   | 0.01     |
| 21      | 4-Bromophenyl-phenylether  | 0.234 | 0.205 | 12.4  | 118   | -0.01    |
| 22      | Hexachlorobenzene          | 0.275 | 0.298 | -8.4  | 142   | -0.01    |
| 23      | Atrazine                   | 0.167 | 0.154 | 7.8   | 130   | 0.00     |
| 24      | Pentachlorophenol          | 0.120 | 0.096 | 20.0  | 130   | 0.00     |
| 25      | Phenanthrene               | 1.099 | 1.002 | 8.8   | 122   | -0.01    |
| 26      | Anthracene                 | 0.994 | 0.861 | 13.4  | 119   | 0.00     |
| 27 SURR | Fluoranthene-d10           | 1.134 | 0.989 | 12.8  | 119   | 0.00     |
| 28      | Fluoranthene               | 1.481 | 1.248 | 15.7  | 114   | 0.00     |
| 29 I    | Chrysene-d12               | 1.000 | 1.000 | 0.0   | 103   | 0.00     |
| 30      | Pyrene                     | 1.477 | 1.585 | -7.3  | 111   | 0.00     |
| 31 S    | Terphenyl-d14              | 0.789 | 0.863 | -9.4  | 113   | 0.00     |
| 32      | Benzo(a)anthracene         | 1.399 | 1.185 | 15.3  | 90    | 0.00     |
| 33      | Chrysene                   | 1.443 | 1.450 | -0.5  | 104   | 0.00     |
| 34      | Bis(2-ethylhexyl)phthalate | 0.553 | 0.579 | -4.7  | 116   | 0.00     |
| 35 I    | Perylene-d12               | 1.000 | 1.000 | 0.0   | 99    | 0.00     |
| 36      | Indeno(1,2,3-cd)pyrene     | 1.564 | 1.459 | 6.7   | 94    | 0.00     |
| 37      | Benzo(b)fluoranthene       | 1.463 | 1.769 | -20.9 | 133   | 0.00     |
| 38      | Benzo(k)fluoranthene       | 1.440 | 1.399 | 2.8   | 99    | 0.00     |
| 39 C    | Benzo(a)pyrene             | 1.205 | 1.093 | 9.3   | 95    | 0.00     |
| 40      | Dibenzo(a,h)anthracene     | 1.234 | 1.086 | 12.0  | 90    | 0.00     |
| 41      | Benzo(g,h,i)perylene       | 1.289 | 1.326 | -2.9  | 105   | 0.00     |

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN121924\  
 Data File : BN035765.D  
 Acq On : 21 Dec 2024 05:10  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 56 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 LabSampleId :  
 SSTDCCC0.4

Quant Time: Dec 21 05:39:14 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Dec 19 23:06:19 2024  
 Response via : Initial Calibration

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

|         | Compound                   | Amount | Calc. | %Dev  | Area% | Dev(min) |
|---------|----------------------------|--------|-------|-------|-------|----------|
| 1 I     | 1,4-Dichlorobenzene-d4     | 0.400  | 0.400 | 0.0   | 173   | 0.00     |
| 2       | 1,4-Dioxane                | 0.400  | 0.459 | -14.8 | 202   | 0.00     |
| 3       | n-Nitrosodimethylamine     | 0.400  | 0.391 | 2.3   | 165   | 0.00     |
| 4 S     | 2-Fluorophenol             | 0.400  | 0.384 | 4.0   | 163   | 0.00     |
| 5 S     | Phenol-d6                  | 0.400  | 0.364 | 9.0   | 159   | -0.01    |
| 6       | bis(2-Chloroethyl)ether    | 0.400  | 0.353 | 11.8  | 156   | 0.00     |
| 7 I     | Naphthalene-d8             | 0.400  | 0.400 | 0.0   | 174   | -0.01    |
| 8 S     | Nitrobenzene-d5            | 0.400  | 0.464 | -16.0 | 210   | 0.00     |
| 9       | Naphthalene                | 0.400  | 0.379 | 5.3   | 166   | 0.00     |
| 10      | Hexachlorobutadiene        | 0.400  | 0.415 | -3.7  | 178   | -0.01    |
| 11 SURR | 2-Methylnaphthalene-d10    | 0.400  | 0.369 | 7.8   | 163   | 0.00     |
| 12      | 2-Methylnaphthalene        | 0.400  | 0.350 | 12.5  | 156   | 0.00     |
| 13 I    | Acenaphthene-d10           | 0.400  | 0.400 | 0.0   | 153   | -0.01    |
| 14 S    | 2,4,6-Tribromophenol       | 0.400  | 0.303 | 24.3  | 129   | 0.00     |
| 15 S    | 2-Fluorobiphenyl           | 0.400  | 0.367 | 8.3   | 141   | 0.00     |
| 16      | Acenaphthylene             | 0.400  | 0.359 | 10.3  | 145   | -0.01    |
| 17      | Acenaphthene               | 0.400  | 0.373 | 6.8   | 147   | -0.01    |
| 18      | Fluorene                   | 0.400  | 0.342 | 14.5  | 135   | -0.01    |
| 19 I    | Phenanthrene-d10           | 0.400  | 0.400 | 0.0   | 130   | 0.00     |
| 20      | 4,6-Dinitro-2-methylphenol | 0.400  | 0.117 | 70.8# | 42    | 0.01     |
| 21      | 4-Bromophenyl-phenylether  | 0.400  | 0.351 | 12.3  | 118   | -0.01    |
| 22      | Hexachlorobenzene          | 0.400  | 0.433 | -8.2  | 142   | -0.01    |
| 23      | Atrazine                   | 0.400  | 0.369 | 7.8   | 130   | 0.00     |
| 24      | Pentachlorophenol          | 0.400  | 0.320 | 20.0  | 130   | 0.00     |
| 25      | Phenanthrene               | 0.400  | 0.365 | 8.8   | 122   | -0.01    |
| 26      | Anthracene                 | 0.400  | 0.347 | 13.3  | 119   | 0.00     |
| 27 SURR | Fluoranthene-d10           | 0.400  | 0.349 | 12.8  | 119   | 0.00     |
| 28      | Fluoranthene               | 0.400  | 0.337 | 15.8  | 114   | 0.00     |
| 29 I    | Chrysene-d12               | 0.400  | 0.400 | 0.0   | 103   | 0.00     |
| 30      | Pyrene                     | 0.400  | 0.429 | -7.2  | 111   | 0.00     |
| 31 S    | Terphenyl-d14              | 0.400  | 0.437 | -9.2  | 113   | 0.00     |
| 32      | Benzo(a)anthracene         | 0.400  | 0.339 | 15.3  | 90    | 0.00     |
| 33      | Chrysene                   | 0.400  | 0.402 | -0.5  | 104   | 0.00     |
| 34      | Bis(2-ethylhexyl)phthalate | 0.400  | 0.419 | -4.7  | 116   | 0.00     |
| 35 I    | Perylene-d12               | 0.400  | 0.400 | 0.0   | 99    | 0.00     |
| 36      | Indeno(1,2,3-cd)pyrene     | 0.400  | 0.373 | 6.8   | 94    | 0.00     |
| 37      | Benzo(b)fluoranthene       | 0.400  | 0.484 | -21.0 | 133   | 0.00     |
| 38      | Benzo(k)fluoranthene       | 0.400  | 0.388 | 3.0   | 99    | 0.00     |
| 39 C    | Benzo(a)pyrene             | 0.400  | 0.363 | 9.3   | 95    | 0.00     |
| 40      | Dibenzo(a,h)anthracene     | 0.400  | 0.352 | 12.0  | 90    | 0.00     |
| 41      | Benzo(g,h,i)perylene       | 0.400  | 0.411 | -2.7  | 105   | 0.00     |

(#) = Out of Range

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



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

7C

## SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P5284 SAS No.: P5284 SDG No.: P5284

Instrument ID: BNA\_N Calibration Date/Time: 12/23/2024 22:16

Lab File ID: BN035794.D Init. Calib. Date(s): 11/27/2024 11/27/2024

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 15:34 19:09

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

| COMPOUND                | RRF   | RRF0.4 | MIN<br>RRF | %D    | MAX%D |
|-------------------------|-------|--------|------------|-------|-------|
| 2-Methylnaphthalene-d10 | 0.626 | 0.540  |            | -13.7 | 20.0  |
| Fluoranthene-d10        | 1.134 | 0.950  |            | -16.2 | 20.0  |
| 2-Fluorophenol          | 1.001 | 0.924  |            | -7.7  | 20.0  |
| Phenol-d6               | 1.204 | 1.016  |            | -15.6 | 20.0  |
| Nitrobenzene-d5         | 0.244 | 0.278  |            | 13.9  | 20.0  |
| 2-Fluorobiphenyl        | 1.512 | 1.529  |            | 1.1   | 20.0  |
| 2,4,6-Tribromophenol    | 0.284 | 0.208  |            | -26.8 | 20.0  |
| Terphenyl-d14           | 0.789 | 0.785  |            | -0.5  | 20.0  |
| 1,4-Dioxane             | 0.382 | 0.419  |            | 9.7   | 20.0  |

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN122324\  
 Data File : BN035794.D  
 Acq On : 23 Dec 2024 22:16  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

**Instrument :**

BNA\_N

**ClientSampleId :**

SSTDCCC0.4

**Manual Integrations****APPROVED**

Reviewed By :Yogesh Patel 12/24/2024

Supervised By :mohammad ahmed 12/26/2024

Quant Time: Dec 24 00:13:20 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Thu Dec 19 23:06:19 2024

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.264  | 152  | 3234     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.009 | 136  | 7877     | 0.400 | ng    | #-0.01   |
| 13) Acenaphthene-d10          | 13.924 | 164  | 4482     | 0.400 | ng    | -0.01    |
| 19) Phenanthrene-d10          | 16.698 | 188  | 8845     | 0.400 | ng    | # 0.00   |
| 29) Chrysene-d12              | 20.947 | 240  | 7163     | 0.400 | ng    | # 0.00   |
| 35) Perylene-d12              | 23.032 | 264  | 7277     | 0.400 | ng    | # 0.00   |
|                               |        |      |          |       |       |          |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 4.932  | 112  | 2987     | 0.369 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.477  | 99   | 3287     | 0.338 | ng    | -0.01    |
| 8) Nitrobenzene-d5            | 8.397  | 82   | 2193m    | 0.456 | ng    | -0.01    |
| 11) 2-Methylnaphthalene-d10   | 11.615 | 152  | 4254     | 0.345 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.453 | 330  | 932      | 0.293 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.538 | 172  | 6854     | 0.405 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 18.752 | 212  | 8405     | 0.335 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.388 | 244  | 5620     | 0.398 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| Target Compounds              |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 2.982  | 88   | 1355     | 0.438 | ng    | 100      |
| 3) n-Nitrosodimethylamine     | 3.270  | 42   | 1052     | 0.409 | ng    | # 95     |
| 6) bis(2-Chloroethyl)ether    | 6.715  | 93   | 2845     | 0.348 | ng    | 97       |
| 9) Naphthalene                | 10.052 | 128  | 7865     | 0.379 | ng    | 100      |
| 10) Hexachlorobutadiene       | 10.351 | 225  | 2082     | 0.434 | ng    | # 100    |
| 12) 2-Methylnaphthalene       | 11.692 | 142  | 5023     | 0.338 | ng    | 99       |
| 16) Acenaphthylene            | 13.636 | 152  | 6992     | 0.372 | ng    | 99       |
| 17) Acenaphthene              | 13.989 | 154  | 4714     | 0.377 | ng    | 99       |
| 18) Fluorene                  | 14.993 | 166  | 6004     | 0.336 | ng    | 100      |
| 20) 4,6-Dinitro-2-methylph... | 15.132 | 198  | 221      | 0.254 | ng    | # 12     |
| 21) 4-Bromophenyl-phenylether | 15.904 | 248  | 1918     | 0.371 | ng    | # 86     |
| 22) Hexachlorobenzene         | 16.003 | 284  | 2804     | 0.462 | ng    | 97       |
| 23) Atrazine                  | 16.202 | 200  | 1338     | 0.363 | ng    | 96       |
| 24) Pentachlorophenol         | 16.375 | 266  | 783      | 0.296 | ng    | 87       |
| 25) Phenanthrene              | 16.735 | 178  | 8831     | 0.363 | ng    | 100      |
| 26) Anthracene                | 16.835 | 178  | 7665     | 0.349 | ng    | 99       |
| 28) Fluoranthene              | 18.785 | 202  | 11004    | 0.336 | ng    | 100      |
| 30) Pyrene                    | 19.152 | 202  | 11228    | 0.425 | ng    | 99       |
| 32) Benzo(a)anthracene        | 20.929 | 228  | 7716     | 0.308 | ng    | 100      |
| 33) Chrysene                  | 20.983 | 228  | 11129    | 0.431 | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 20.902 | 149  | 4068     | 0.411 | ng    | 99       |
| 36) Indeno(1,2,3-cd)pyrene    | 25.055 | 276  | 10012    | 0.352 | ng    | 98       |
| 37) Benzo(b)fluoranthene      | 22.421 | 252  | 14187    | 0.533 | ng    | # 95     |
| 38) Benzo(k)fluoranthene      | 22.462 | 252  | 10893m   | 0.416 | ng    |          |
| 39) Benzo(a)pyrene            | 22.944 | 252  | 8141     | 0.371 | ng    | # 87     |
| 40) Dibenzo(a,h)anthracene    | 25.076 | 278  | 7465     | 0.333 | ng    | # 91     |
| 41) Benzo(g,h,i)perylene      | 25.663 | 276  | 9418     | 0.401 | ng    | 98       |

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

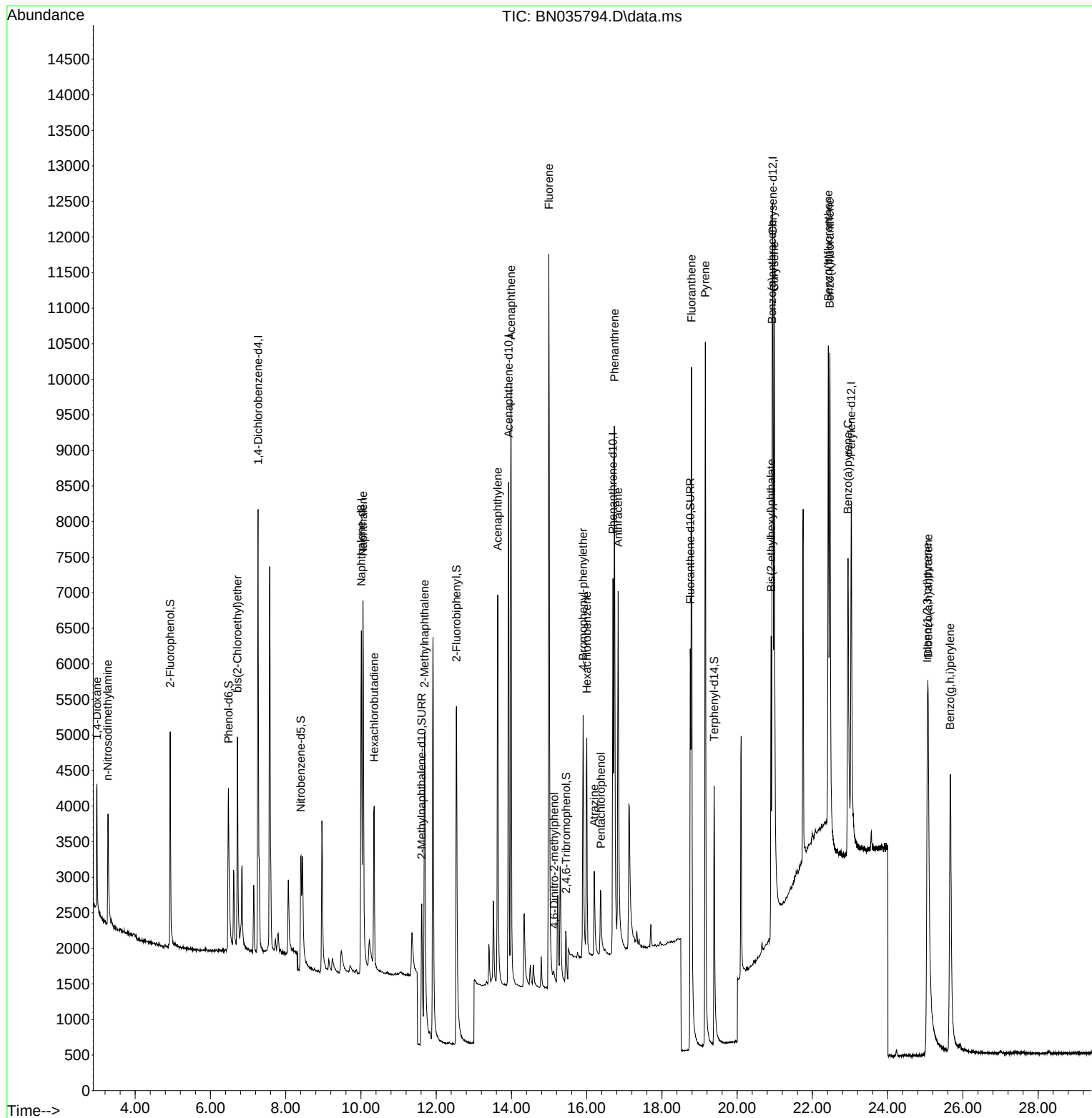
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Data File : BN035794.D  
Acq On : 23 Dec 2024 22:16  
Operator : RC/JU  
Sample : SSTDCCC0.4  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

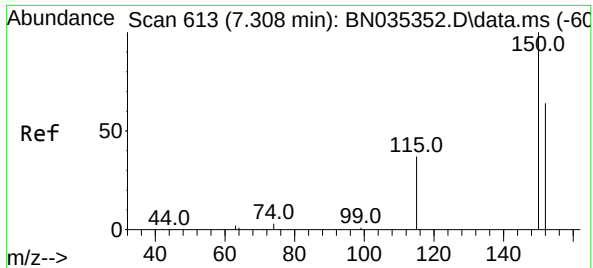
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

Manual Integrations  
**APPROVED**

Reviewed By :Yogesh Patel 12/24/2024  
Supervised By :mohammad ahmed 12/26/2024

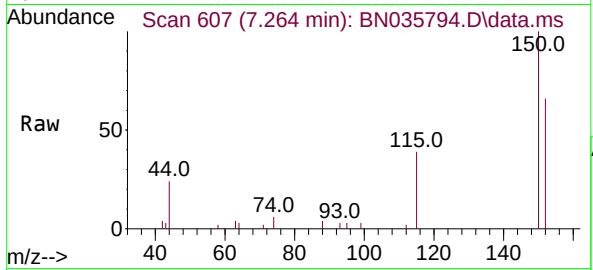
Quant Time: Dec 24 00:13:20 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Dec 19 23:06:19 2024  
Response via : Initial Calibration





#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.264 min Scan# 60  
Delta R.T. -0.008 min  
Lab File: BN035794.D  
Acq: 23 Dec 2024 22:16

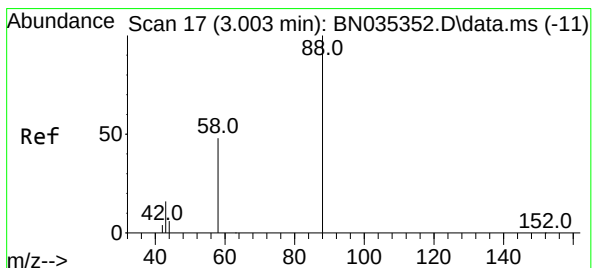
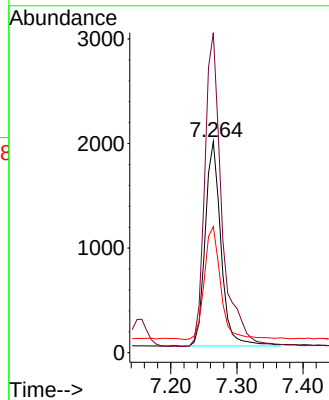
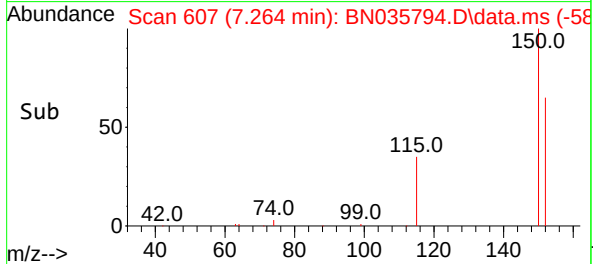
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4



Tgt Ion: 152 Resp: 3234  
Ion Ratio Lower Upper  
152 100  
150 151.5 124.0 186.0  
115 59.7 49.6 74.4

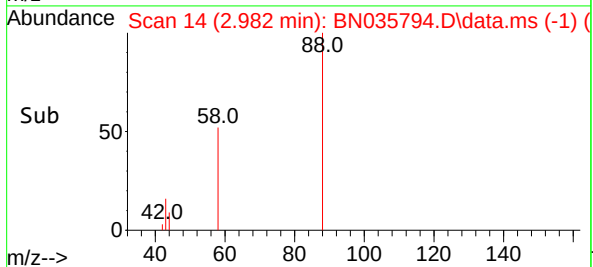
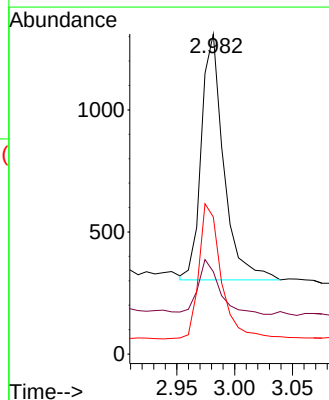
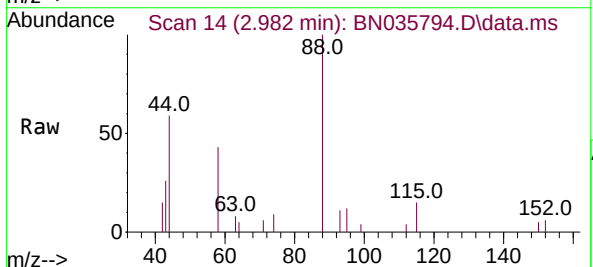
Manual Integrations  
APPROVED

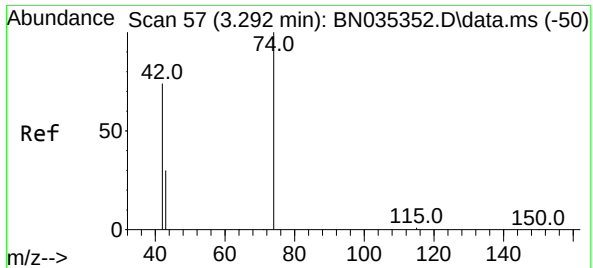
Reviewed By :Yogesh Patel 12/24/2024  
Supervised By :mohammad ahmed 12/26/2024



#2  
1,4-Dioxane  
Concen: 0.438 ng  
RT: 2.982 min Scan# 14  
Delta R.T. -0.000 min  
Lab File: BN035794.D  
Acq: 23 Dec 2024 22:16

Tgt Ion: 88 Resp: 1355  
Ion Ratio Lower Upper  
88 100  
43 21.3 17.2 25.8  
58 55.4 44.5 66.7





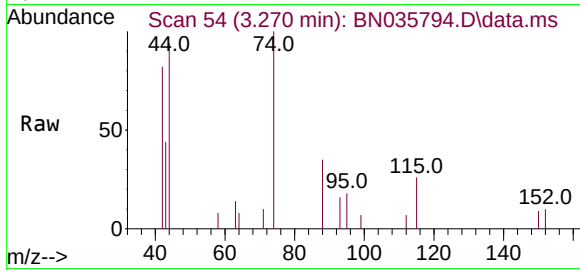
#3  
n-Nitrosodimethylamine  
Concen: 0.409 ng  
RT: 3.270 min Scan# 54  
Delta R.T. -0.007 min  
Lab File: BN035794.D  
Acq: 23 Dec 2024 22:16

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4



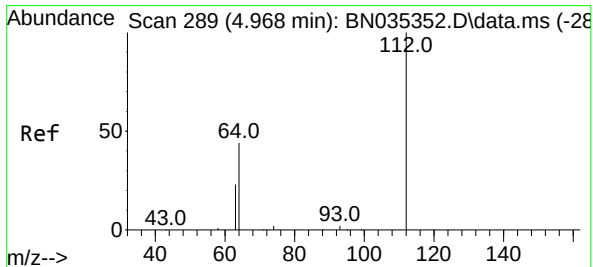
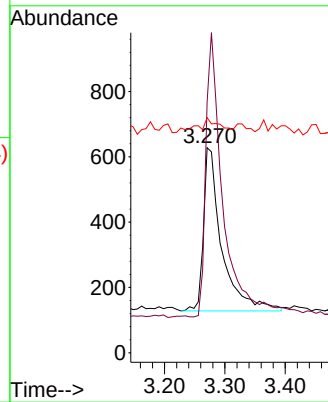
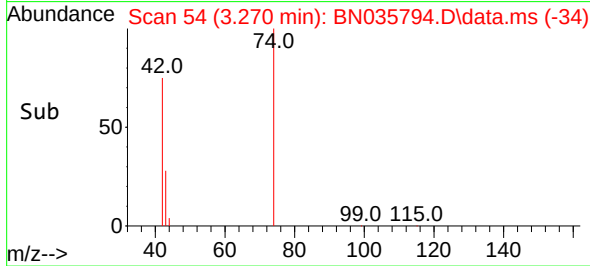
Tgt Ion: 42 Resp: 1052  
Ion Ratio Lower Upper  
42 100  
74 162.6 124.9 187.3  
44 10.1 2.2 3.4

Manual Integrations

APPROVED

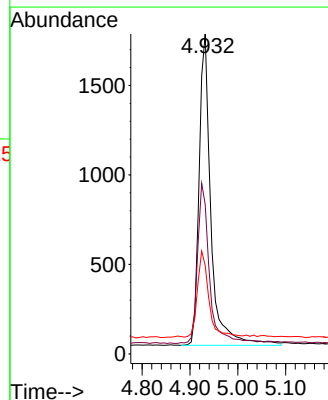
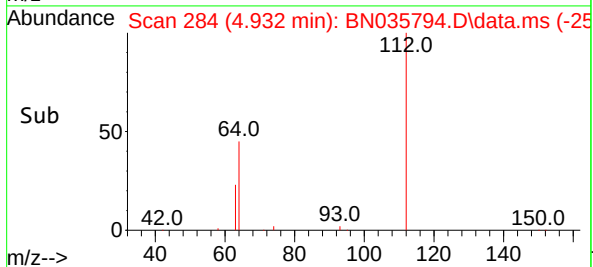
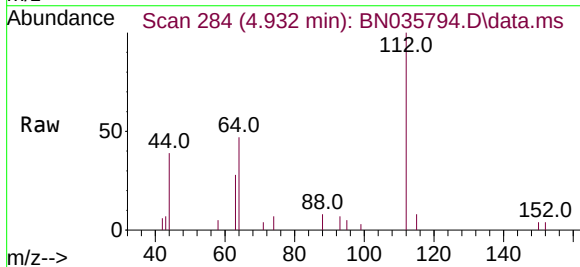
Reviewed By :Yogesh Patel 12/24/2024

Supervised By :mohammad ahmed 12/26/2024

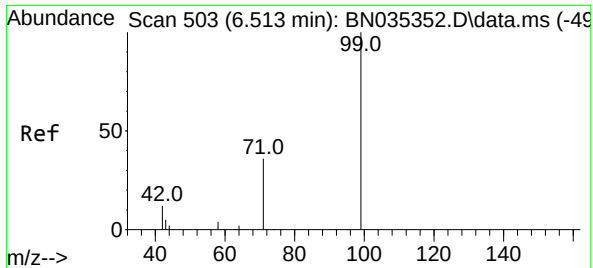


#4  
2-Fluorophenol  
Concen: 0.369 ng  
RT: 4.932 min Scan# 284  
Delta R.T. -0.007 min  
Lab File: BN035794.D  
Acq: 23 Dec 2024 22:16

Tgt Ion:112 Resp: 2987  
Ion Ratio Lower Upper  
112 100  
64 51.9 39.8 59.8  
63 26.4 21.0 31.6







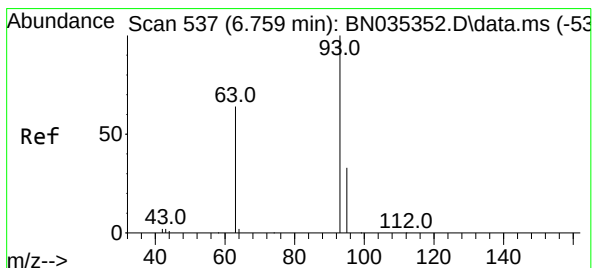
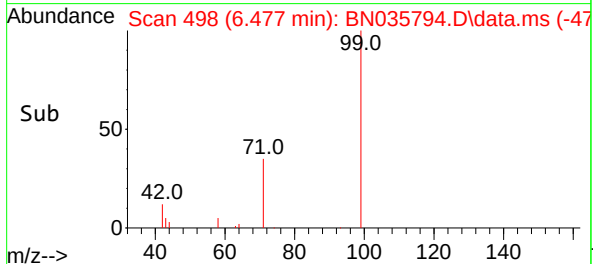
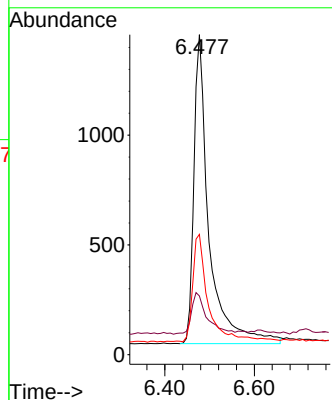
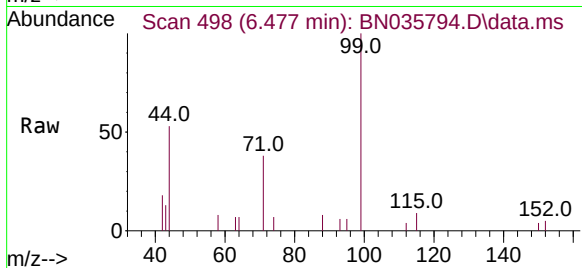
#5  
Phenol-d6  
Concen: 0.338 ng  
RT: 6.477 min Scan# 498  
Delta R.T. -0.015 min  
Lab File: BN035794.D  
Acq: 23 Dec 2024 22:16

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

Tgt Ion: 99 Resp: 328  
Ion Ratio Lower Upper  
99 100  
42 13.9 11.4 17.2  
71 35.3 29.3 43.9

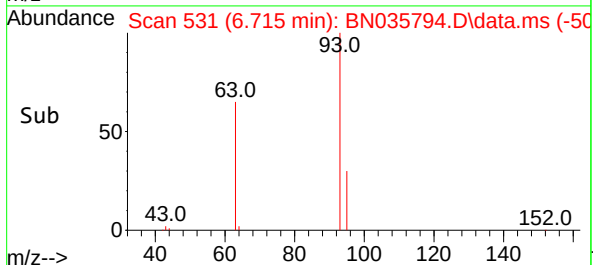
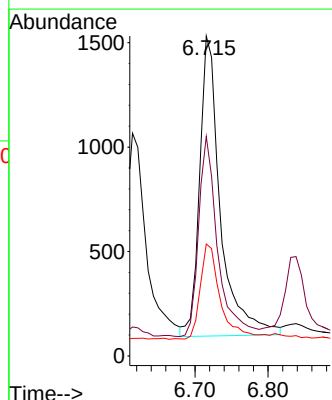
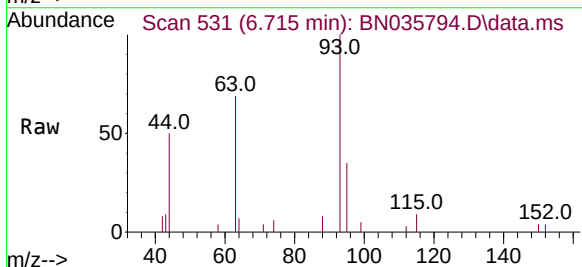
Manual Integrations  
**APPROVED**

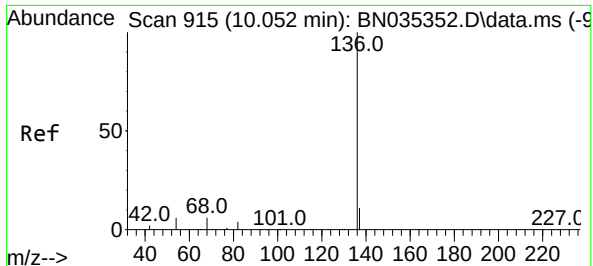
Reviewed By :Yogesh Patel 12/24/2024  
Supervised By :mohammad ahmed 12/26/2024



#6  
bis(2-Chloroethyl)ether  
Concen: 0.348 ng  
RT: 6.715 min Scan# 531  
Delta R.T. -0.015 min  
Lab File: BN035794.D  
Acq: 23 Dec 2024 22:16

Tgt Ion: 93 Resp: 2845  
Ion Ratio Lower Upper  
93 100  
63 61.5 50.4 75.6  
95 30.1 25.7 38.5





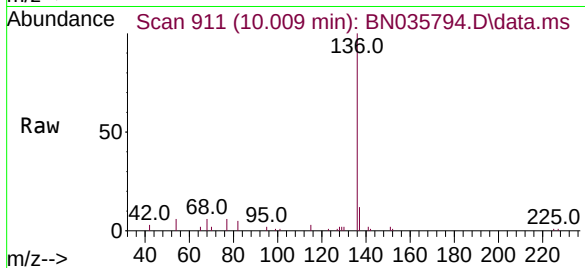
#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.009 min Scan# 915  
Delta R.T. -0.011 min  
Lab File: BN035794.D  
Acq: 23 Dec 2024 22:16

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

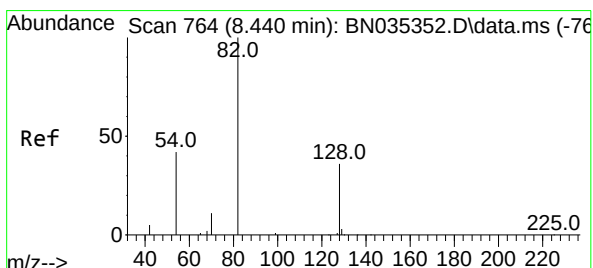
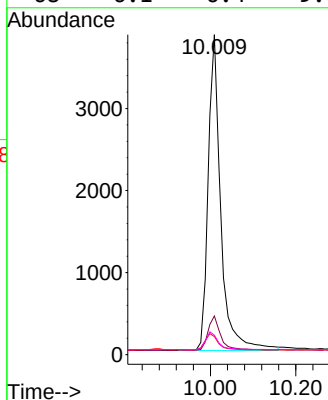
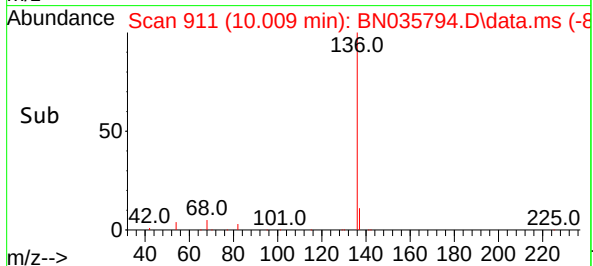


Tgt Ion:136 Resp: 787  
Ion Ratio Lower Upper  
136 100  
137 12.1 10.2 15.2  
54 5.7 6.1 9.1  
68 6.1 6.4 9.6#

Manual Integrations

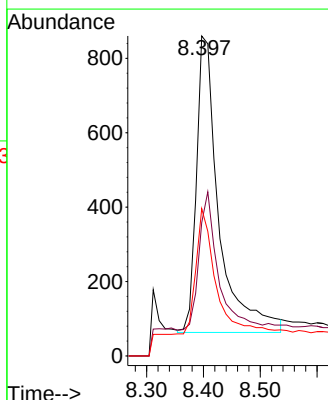
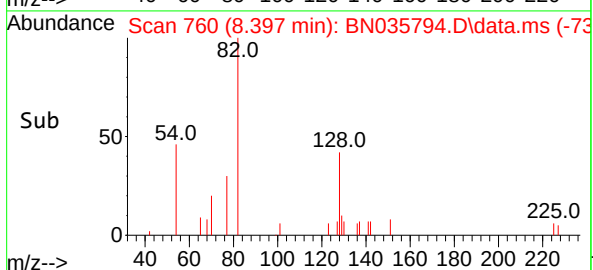
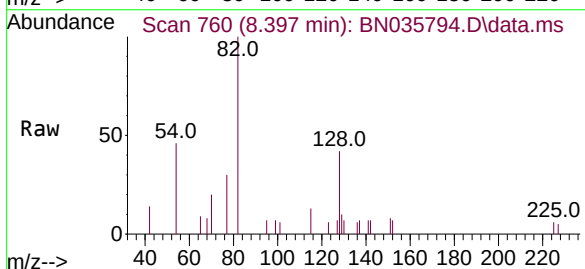
APPROVED

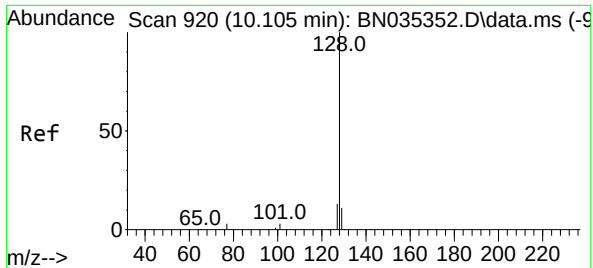
Reviewed By :Yogesh Patel 12/24/2024  
Supervised By :mohammad ahmed 12/26/2024



#8  
Nitrobenzene-d5  
Concen: 0.456 ng m  
RT: 8.397 min Scan# 760  
Delta R.T. -0.011 min  
Lab File: BN035794.D  
Acq: 23 Dec 2024 22:16

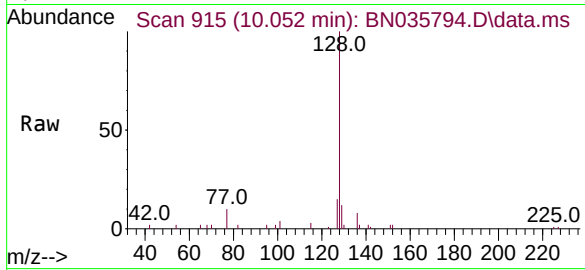
Tgt Ion: 82 Resp: 2193  
Ion Ratio Lower Upper  
82 100  
128 41.6 33.4 50.0  
54 46.0 36.7 55.1





#9  
Naphthalene  
Concen: 0.379 ng  
RT: 10.052 min Scan# 915  
Delta R.T. -0.011 min  
Lab File: BN035794.D  
Acq: 23 Dec 2024 22:16

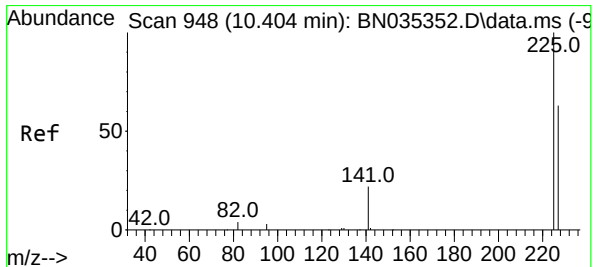
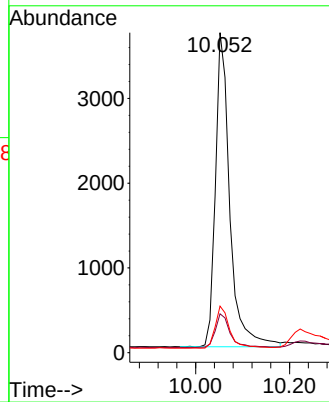
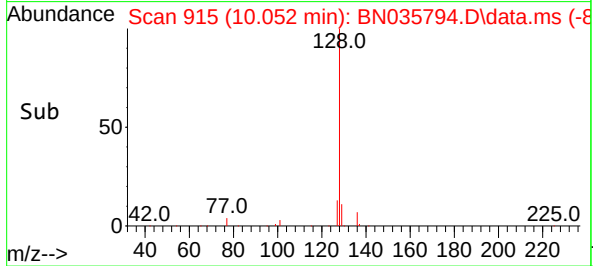
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4



Tgt Ion:128 Resp: 786  
Ion Ratio Lower Upper  
128 100  
129 12.2 9.8 14.6  
127 14.6 11.4 17.2

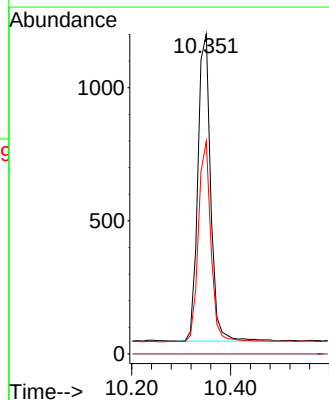
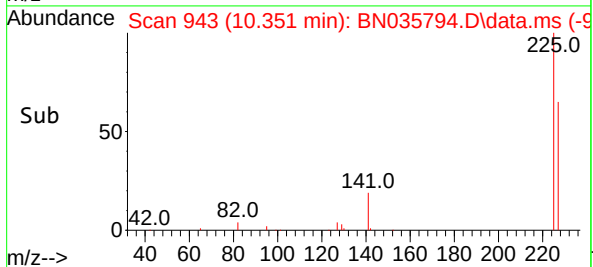
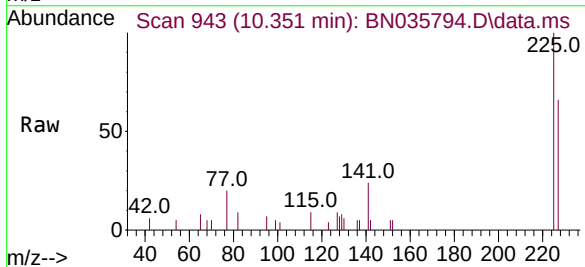
Manual Integrations  
**APPROVED**

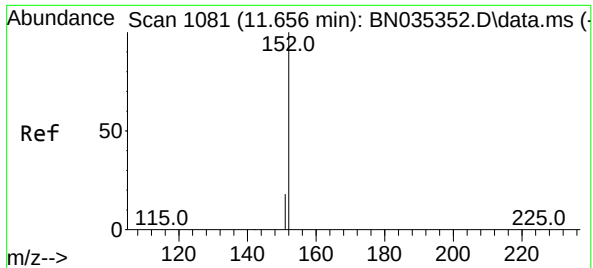
Reviewed By :Yogesh Patel 12/24/2024  
Supervised By :mohammad ahmed 12/26/2024



#10  
Hexachlorobutadiene  
Concen: 0.434 ng  
RT: 10.351 min Scan# 943  
Delta R.T. -0.011 min  
Lab File: BN035794.D  
Acq: 23 Dec 2024 22:16

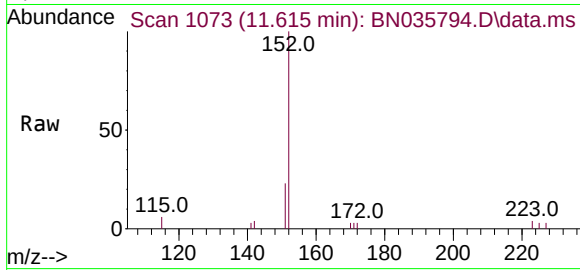
Tgt Ion:225 Resp: 2082  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 63.8 51.3 76.9





#11  
2-Methylnaphthalene-d10  
Concen: 0.345 ng  
RT: 11.615 min Scan# 1081  
Delta R.T. -0.005 min  
Lab File: BN035794.D  
Acq: 23 Dec 2024 22:16

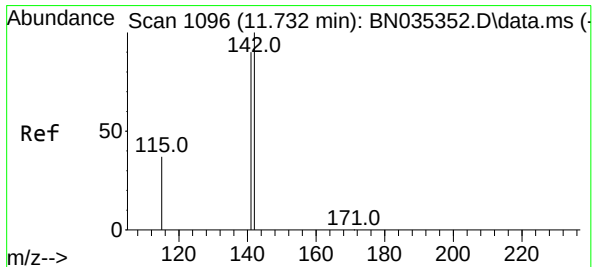
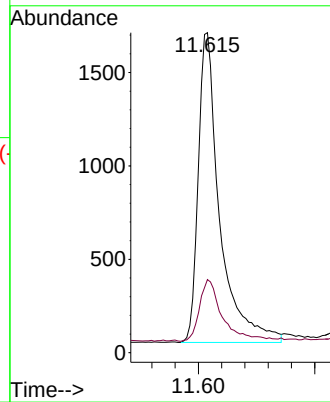
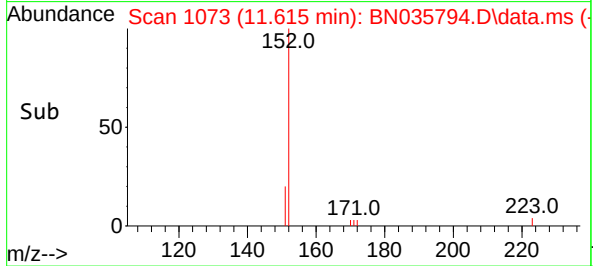
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4



Tgt Ion:152 Resp: 4254  
Ion Ratio Lower Upper  
152 100  
151 21.5 16.6 25.0

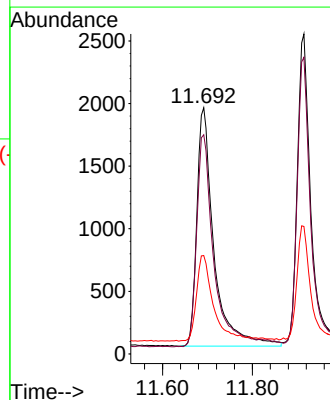
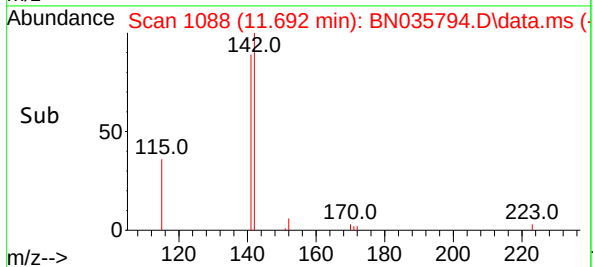
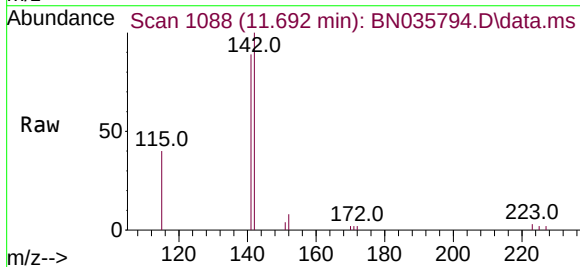
Manual Integrations  
APPROVED

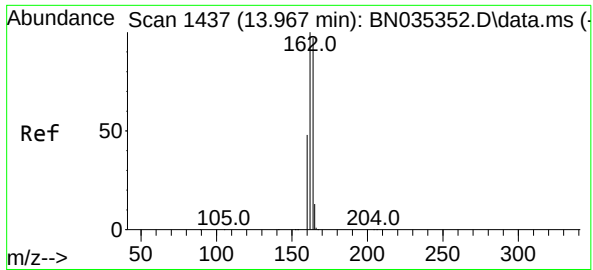
Reviewed By :Yogesh Patel 12/24/2024  
Supervised By :mohammad ahmed 12/26/2024



#12  
2-Methylnaphthalene  
Concen: 0.338 ng  
RT: 11.692 min Scan# 1088  
Delta R.T. -0.005 min  
Lab File: BN035794.D  
Acq: 23 Dec 2024 22:16

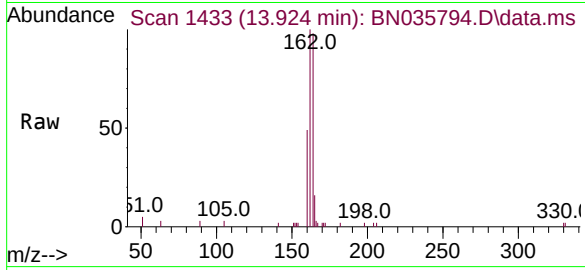
Tgt Ion:142 Resp: 5023  
Ion Ratio Lower Upper  
142 100  
141 89.0 72.2 108.4  
115 40.0 31.4 47.0





#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.924 min Scan# 1433  
Delta R.T. -0.011 min  
Lab File: BN035794.D  
Acq: 23 Dec 2024 22:16

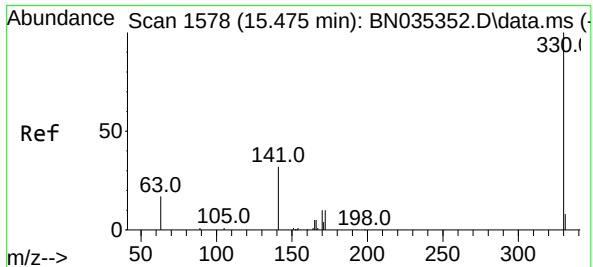
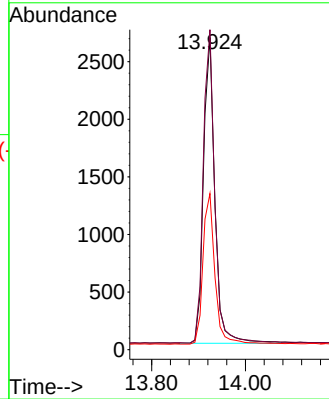
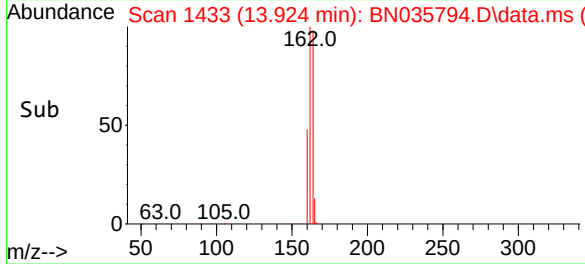
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4



Tgt Ion:164 Resp: 448  
Ion Ratio Lower Upper  
164 100  
162 102.4 82.2 123.2  
160 50.0 40.1 60.1

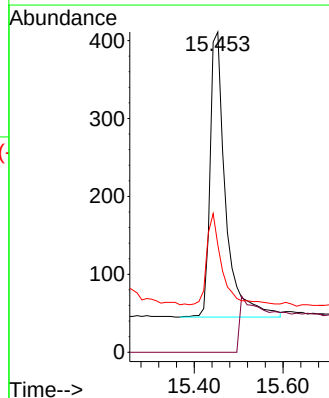
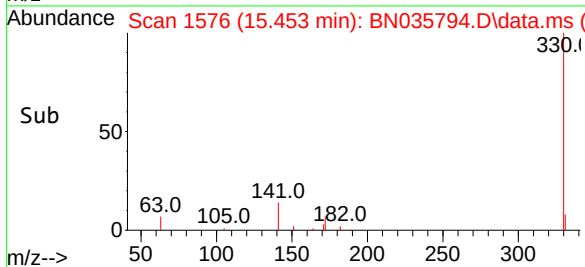
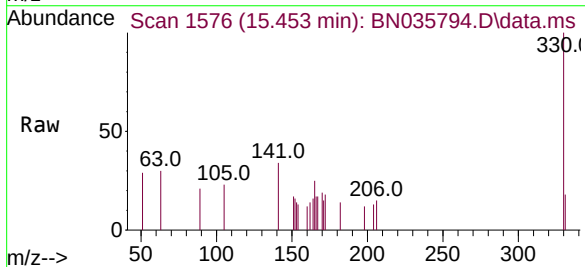
Manual Integrations  
**APPROVED**

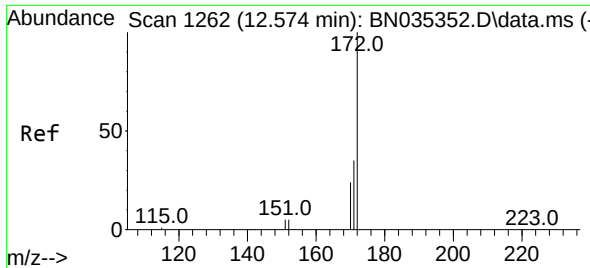
Reviewed By :Yogesh Patel 12/24/2024  
Supervised By :mohammad ahmed 12/26/2024



#14  
2,4,6-Tribromophenol  
Concen: 0.293 ng  
RT: 15.453 min Scan# 1576  
Delta R.T. -0.000 min  
Lab File: BN035794.D  
Acq: 23 Dec 2024 22:16

Tgt Ion:330 Resp: 932  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 30.8 26.6 40.0





#15  
2-Fluorobiphenyl  
Concen: 0.405 ng  
RT: 12.538 min Scan# 11  
Delta R.T. -0.005 min  
Lab File: BN035794.D  
Acq: 23 Dec 2024 22:16

Instrument :

BNA\_N

ClientSampleId :

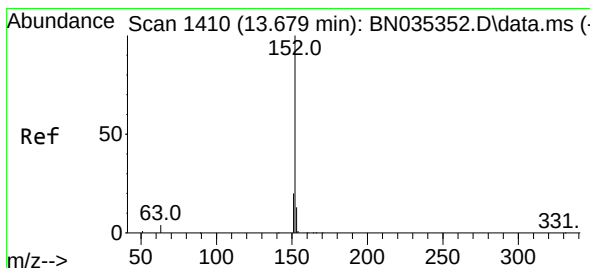
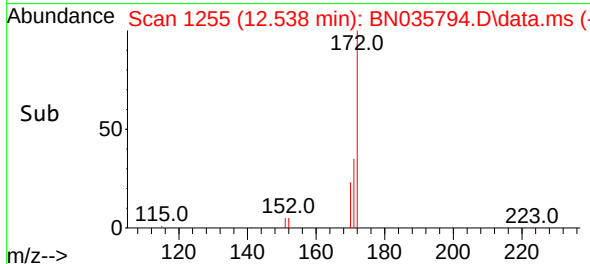
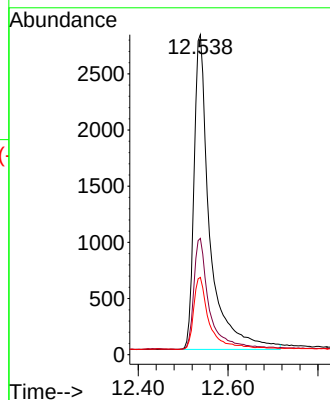
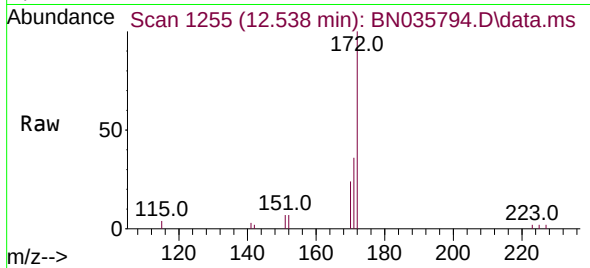
SSTDCCC0.4

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.4  | 29.0  | 43.4  |
| 170     | 24.1  | 19.8  | 29.8  |

Manual Integrations

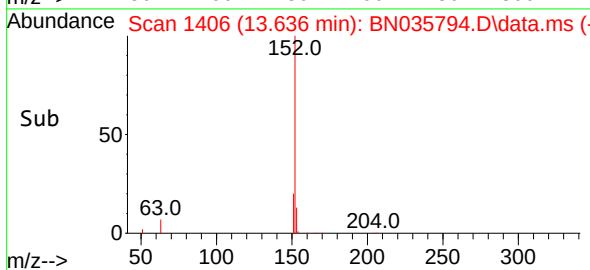
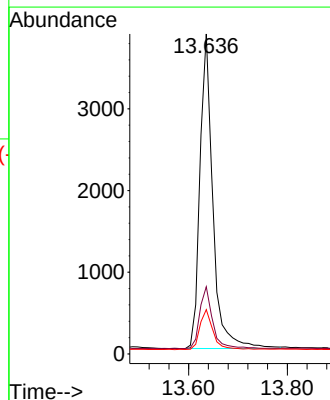
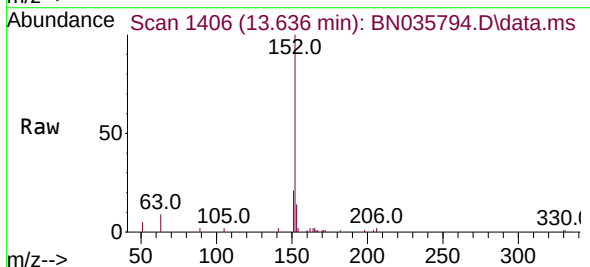
APPROVED

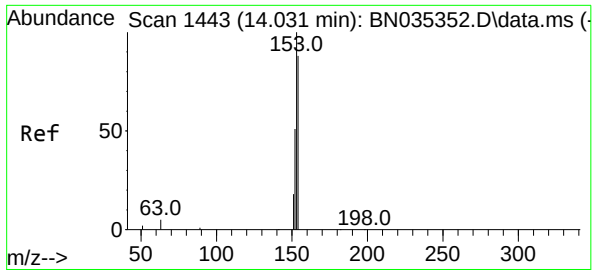
Reviewed By :Yogesh Patel 12/24/2024  
Supervised By :mohammad ahmed 12/26/2024



#16  
Acenaphthylene  
Concen: 0.372 ng  
RT: 13.636 min Scan# 1406  
Delta R.T. -0.011 min  
Lab File: BN035794.D  
Acq: 23 Dec 2024 22:16

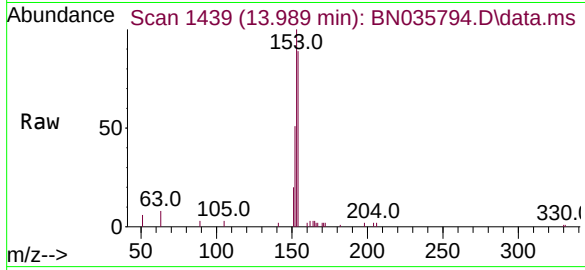
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 19.6  | 16.2  | 24.2  |
| 153     | 13.2  | 10.4  | 15.6  |





#17  
Acenaphthene  
Concen: 0.377 ng  
RT: 13.989 min Scan# 1443  
Delta R.T. -0.011 min  
Lab File: BN035794.D  
Acq: 23 Dec 2024 22:16

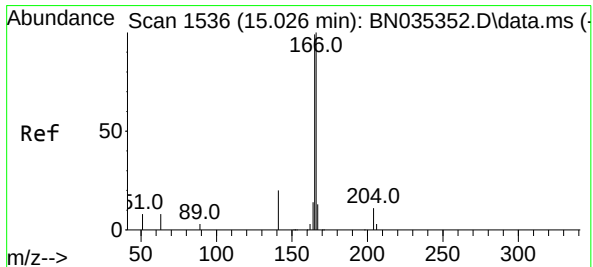
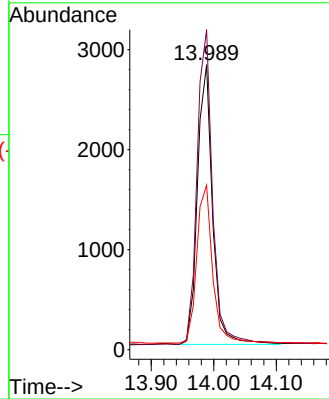
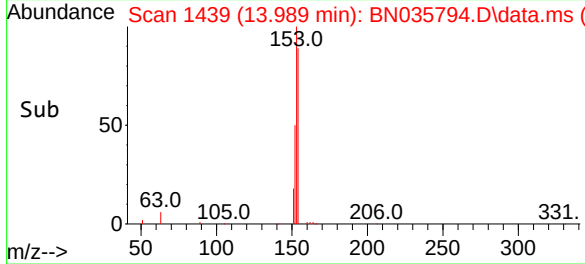
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4



Tgt Ion:154 Resp: 4714  
Ion Ratio Lower Upper  
154 100  
153 115.7 92.6 139.0  
152 59.2 49.0 73.6

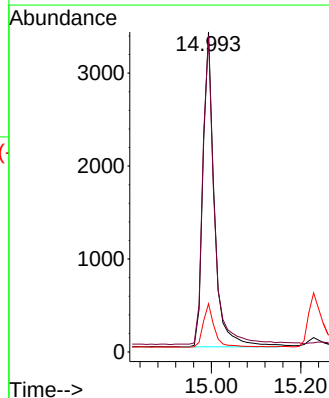
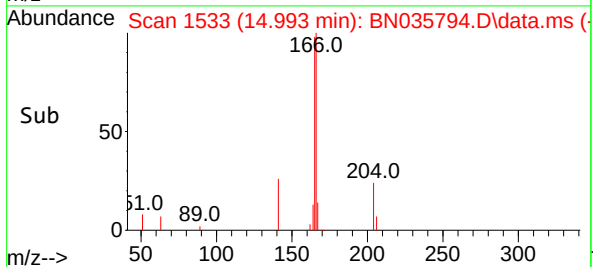
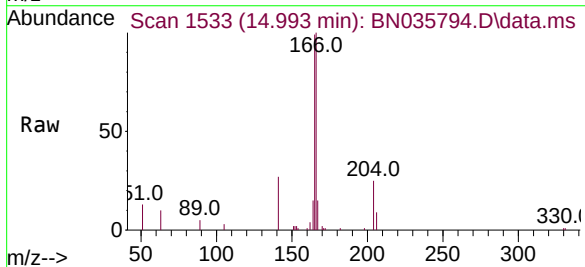
Manual Integrations  
**APPROVED**

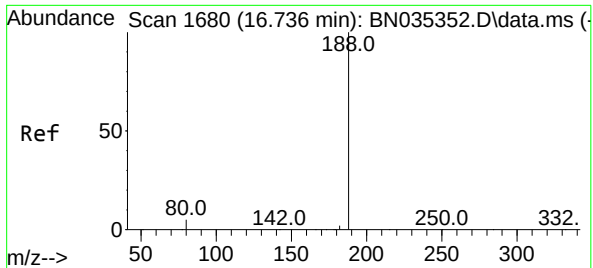
Reviewed By :Yogesh Patel 12/24/2024  
Supervised By :mohammad ahmed 12/26/2024



#18  
Fluorene  
Concen: 0.336 ng  
RT: 14.993 min Scan# 1533  
Delta R.T. -0.011 min  
Lab File: BN035794.D  
Acq: 23 Dec 2024 22:16

Tgt Ion:166 Resp: 6004  
Ion Ratio Lower Upper  
166 100  
165 99.4 79.7 119.5  
167 13.5 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.698 min Scan# 1677

Delta R.T. -0.000 min

Lab File: BN035794.D

Acq: 23 Dec 2024 22:16

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

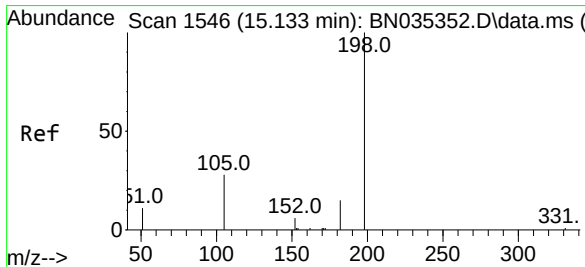
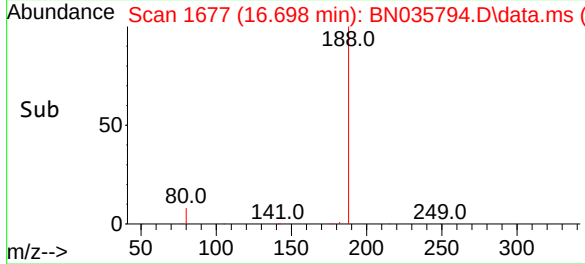
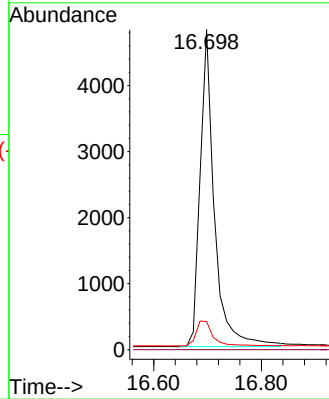
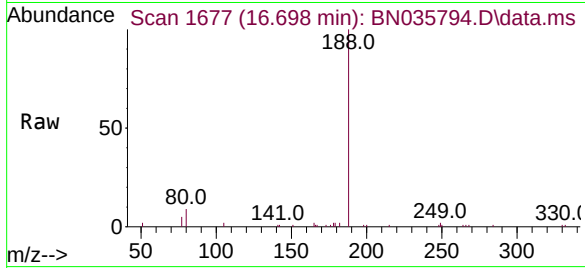
|             |       |       |
|-------------|-------|-------|
| Tgt Ion:188 | Resp: | 884   |
| Ion Ratio   | Lower | Upper |
| 188         | 100   |       |
| 94          | 0.0   | 0.0   |
| 80          | 8.8   | 4.6   |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/24/2024

Supervised By :mohammad ahmed 12/26/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 0.254 ng

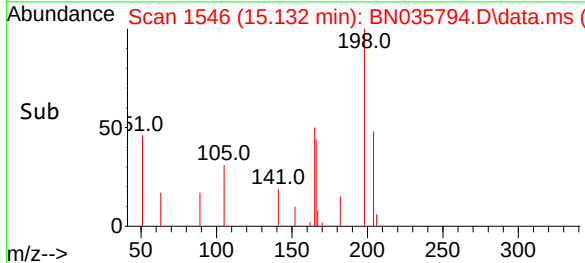
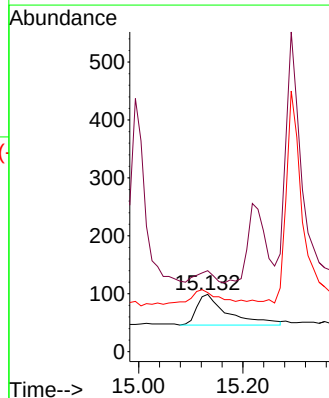
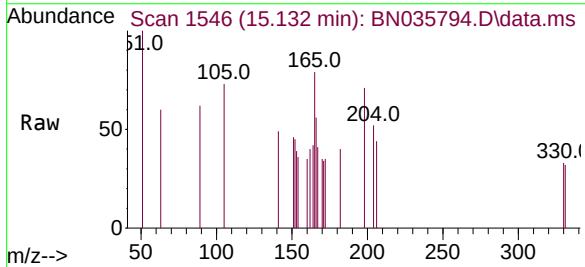
RT: 15.132 min Scan# 1546

Delta R.T. 0.010 min

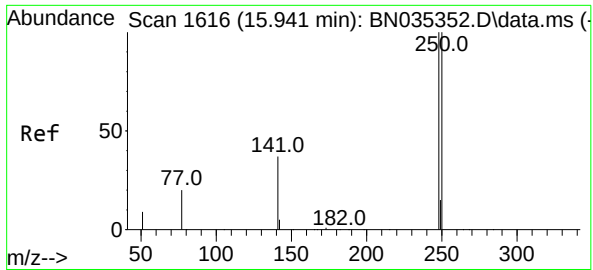
Lab File: BN035794.D

Acq: 23 Dec 2024 22:16

|             |       |       |
|-------------|-------|-------|
| Tgt Ion:198 | Resp: | 221   |
| Ion Ratio   | Lower | Upper |
| 198         | 100   |       |
| 51          | 141.4 | 46.5  |
| 105         | 103.0 | 45.3  |







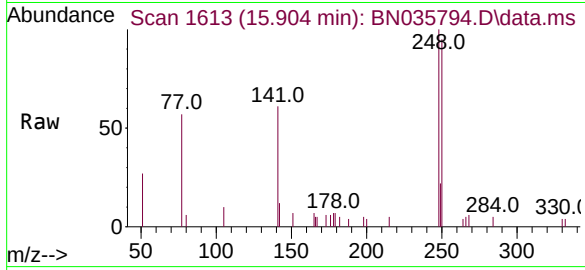
#21  
4-Bromophenyl-phenylether  
Concen: 0.371 ng  
RT: 15.904 min Scan# 1613  
Delta R.T. -0.013 min  
Lab File: BN035794.D  
Acq: 23 Dec 2024 22:16

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4



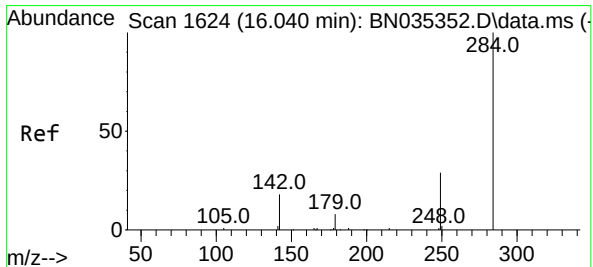
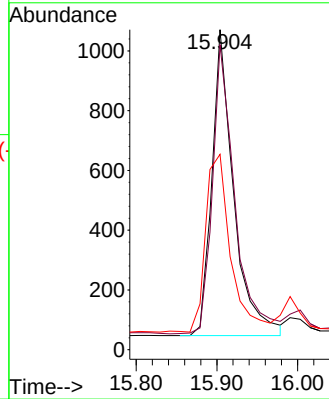
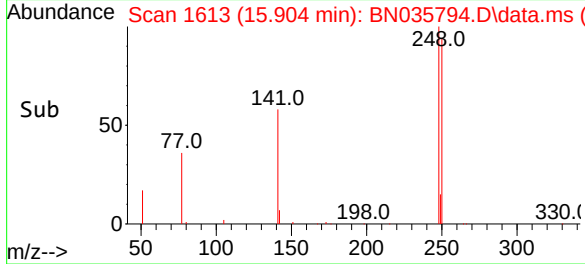
Tgt Ion:248 Resp: 1918  
Ion Ratio Lower Upper  
248 100  
250 95.3 80.6 120.8  
141 61.1 31.5 47.3

Manual Integrations

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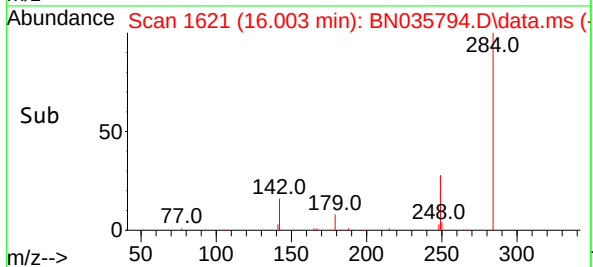
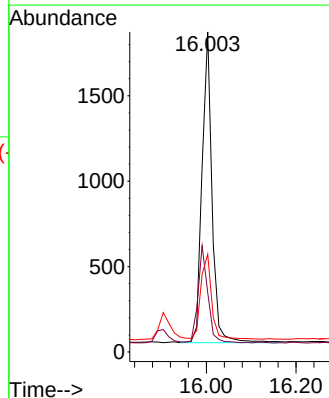
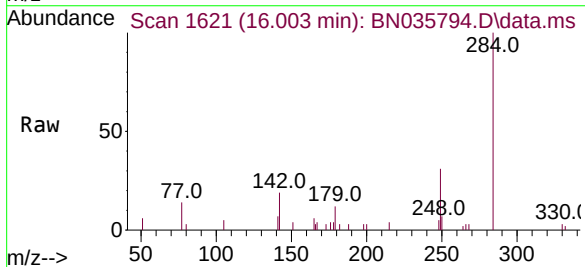
Reviewed By :Yogesh Patel 12/24/2024

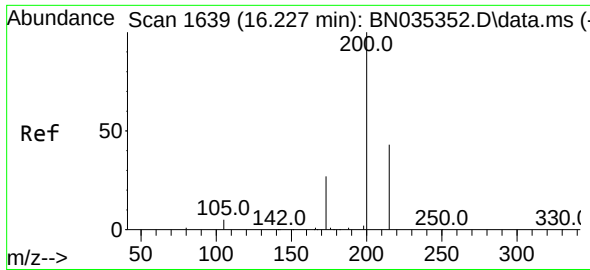
Supervised By :mohammad ahmed 12/26/2024



#22  
Hexachlorobenzene  
Concen: 0.462 ng  
RT: 16.003 min Scan# 1621  
Delta R.T. -0.013 min  
Lab File: BN035794.D  
Acq: 23 Dec 2024 22:16

Tgt Ion:284 Resp: 2804  
Ion Ratio Lower Upper  
284 100  
142 30.7 26.7 40.1  
249 30.0 24.6 36.8





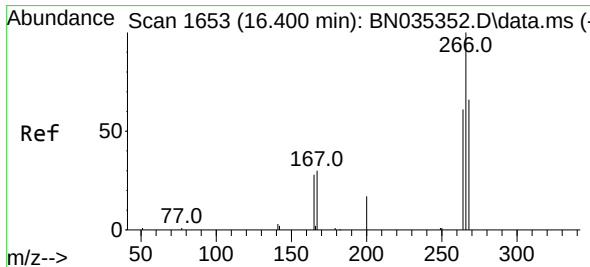
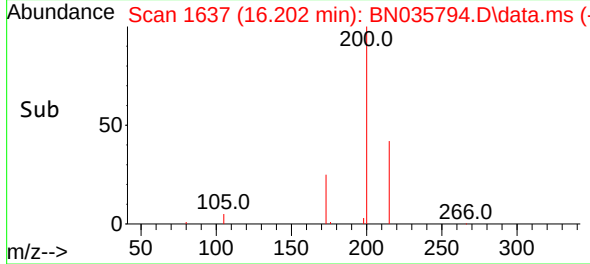
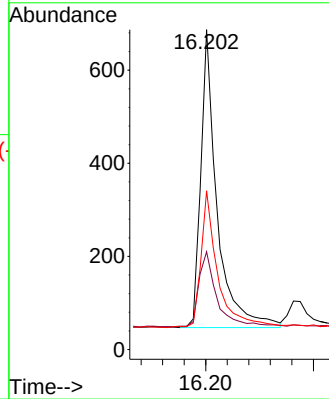
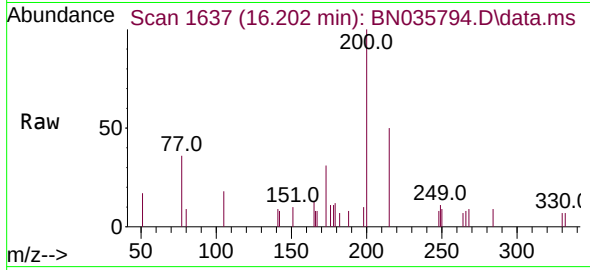
#23  
Atrazine  
Concen: 0.363 ng  
RT: 16.202 min Scan# 1637  
Delta R.T. -0.000 min  
Lab File: BN035794.D  
Acq: 23 Dec 2024 22:16

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

Tgt Ion:200 Resp: 1338  
Ion Ratio Lower Upper  
200 100  
173 30.6 24.1 36.1  
215 49.6 36.9 55.3

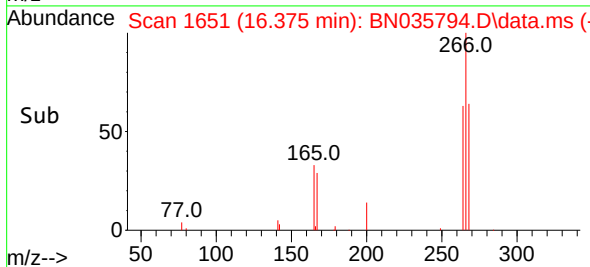
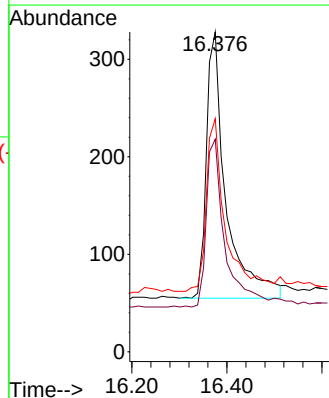
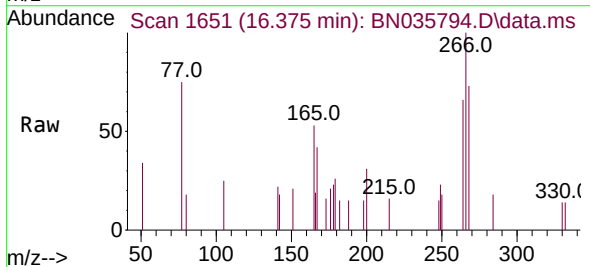
Manual Integrations  
APPROVED

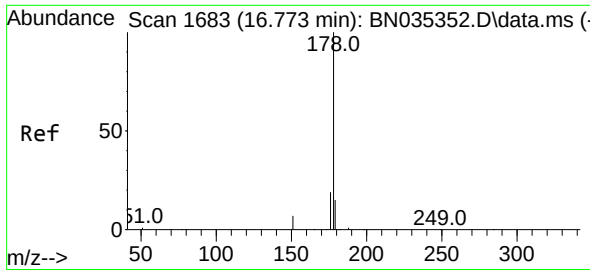
Reviewed By :Yogesh Patel 12/24/2024  
Supervised By :mohammad ahmed 12/26/2024



#24  
Pentachlorophenol  
Concen: 0.296 ng  
RT: 16.375 min Scan# 1651  
Delta R.T. -0.000 min  
Lab File: BN035794.D  
Acq: 23 Dec 2024 22:16

Tgt Ion:266 Resp: 783  
Ion Ratio Lower Upper  
266 100  
264 62.1 42.3 63.5  
268 63.6 43.3 64.9





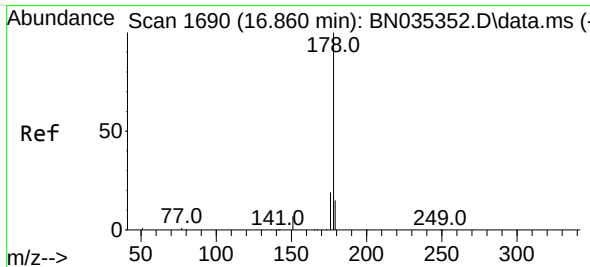
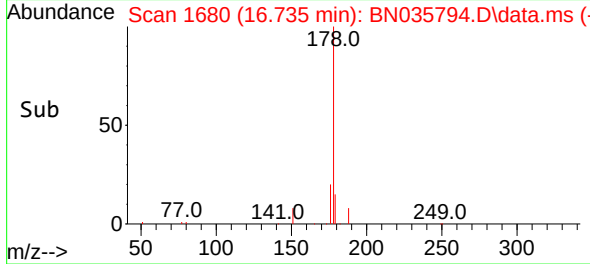
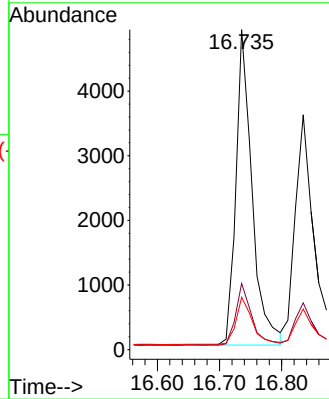
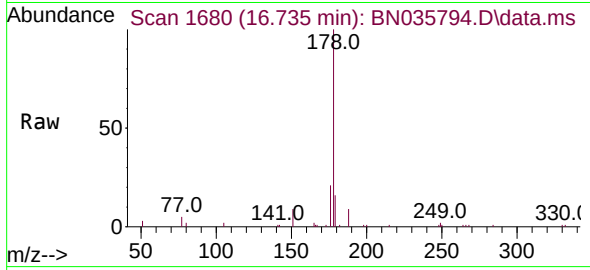
#25  
Phenanthrene  
Concen: 0.363 ng  
RT: 16.735 min Scan# 1683  
Delta R.T. -0.013 min  
Lab File: BN035794.D  
Acq: 23 Dec 2024 22:16

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

Tgt Ion:178 Resp: 883  
Ion Ratio Lower Upper  
178 100  
176 19.3 15.4 23.2  
179 15.4 12.3 18.5

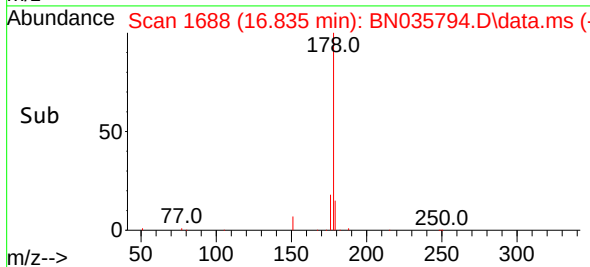
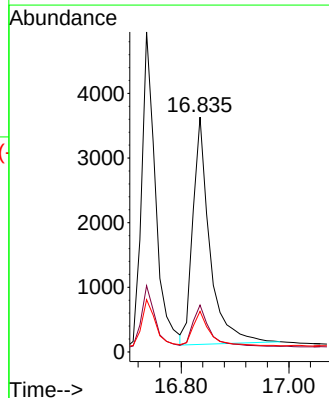
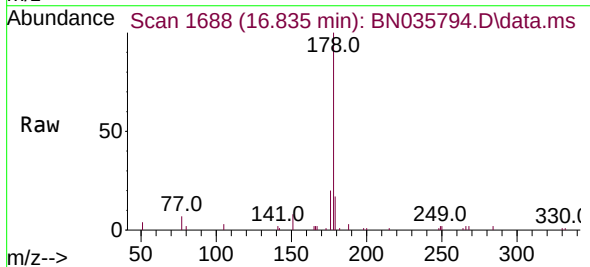
Manual Integrations  
**APPROVED**

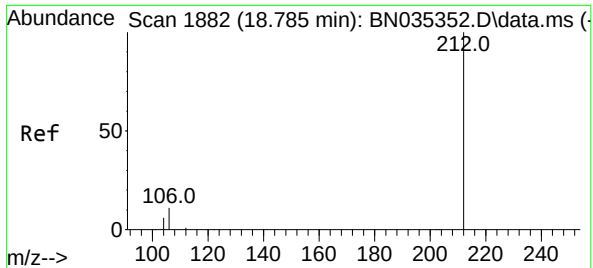
Reviewed By :Yogesh Patel 12/24/2024  
Supervised By :mohammad ahmed 12/26/2024



#26  
Anthracene  
Concen: 0.349 ng  
RT: 16.835 min Scan# 1688  
Delta R.T. -0.000 min  
Lab File: BN035794.D  
Acq: 23 Dec 2024 22:16

Tgt Ion:178 Resp: 7665  
Ion Ratio Lower Upper  
178 100  
176 18.6 15.0 22.6  
179 15.3 12.6 18.8





#27  
Fluoranthene-d10  
Concen: 0.335 ng  
RT: 18.752 min Scan# 1882  
Delta R.T. -0.009 min  
Lab File: BN035794.D  
Acq: 23 Dec 2024 22:16

Instrument :

BNA\_N

ClientSampleId :

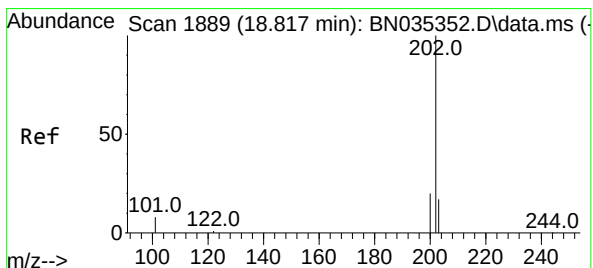
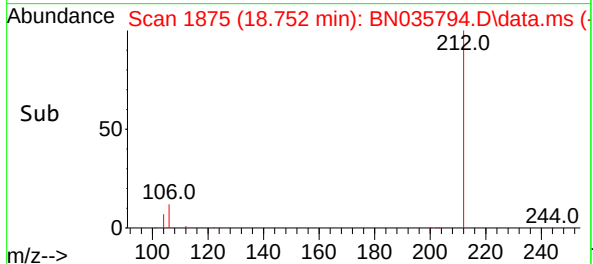
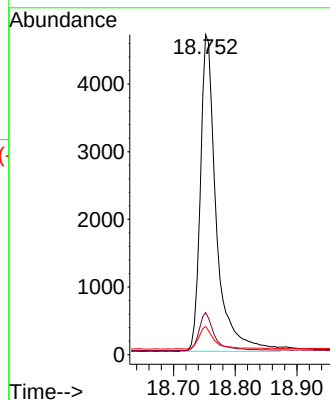
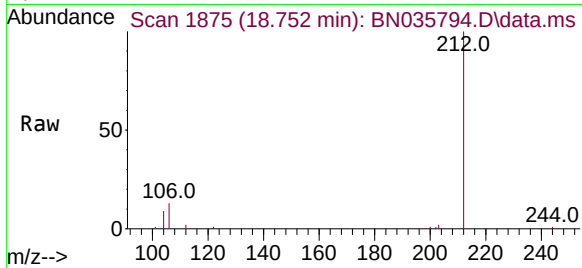
SSTDCCC0.4

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 212     | 100   |       |       |
| 106     | 11.6  | 9.2   | 13.8  |
| 104     | 6.7   | 5.3   | 7.9   |

Manual Integrations

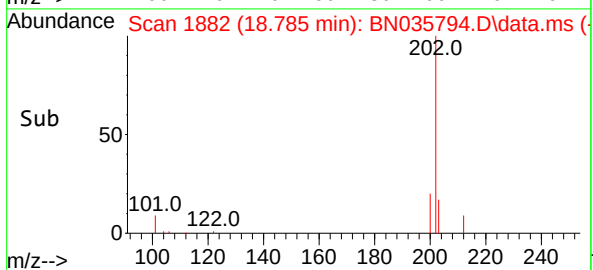
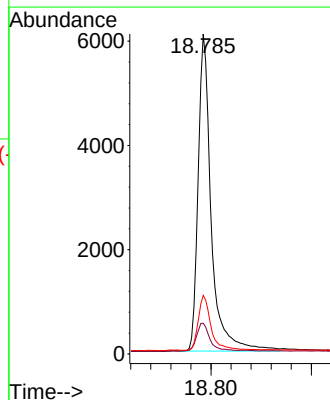
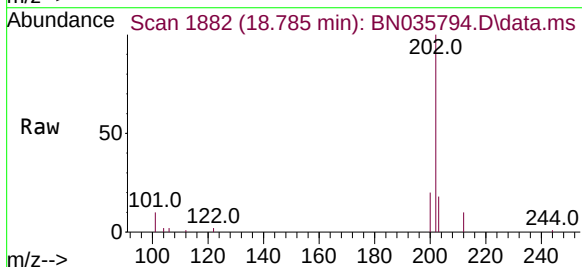
APPROVED

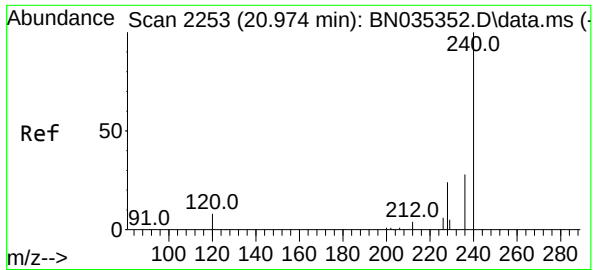
Reviewed By :Yogesh Patel 12/24/2024  
Supervised By :mohammad ahmed 12/26/2024



#28  
Fluoranthene  
Concen: 0.336 ng  
RT: 18.785 min Scan# 1882  
Delta R.T. -0.005 min  
Lab File: BN035794.D  
Acq: 23 Dec 2024 22:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 9.2   | 7.4   | 11.0  |
| 203     | 17.0  | 13.7  | 20.5  |





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.947 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035794.D

Acq: 23 Dec 2024 22:16

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion:240 Resp: 716

Ion Ratio Lower Upper

240 100

120 13.2 7.9 11.9

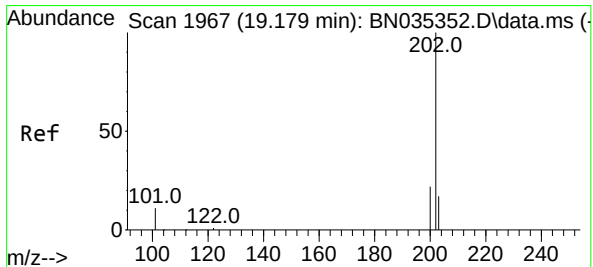
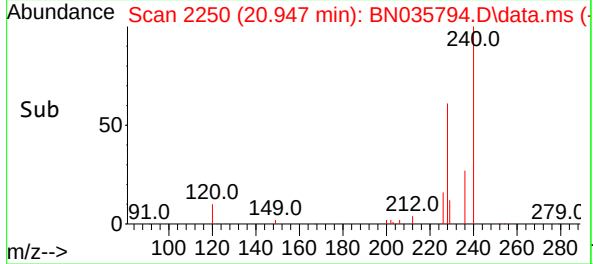
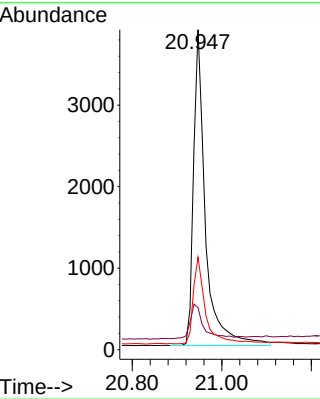
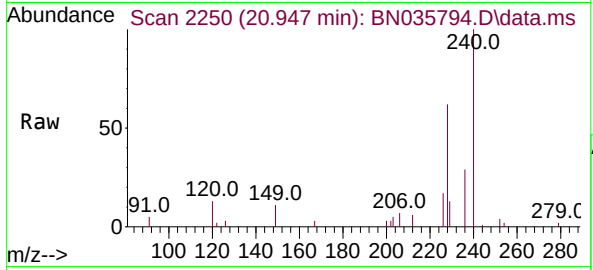
236 28.9 22.9 34.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/24/2024

Supervised By :mohammad ahmed 12/26/2024



#30

Pyrene

Concen: 0.425 ng

RT: 19.152 min Scan# 1961

Delta R.T. -0.009 min

Lab File: BN035794.D

Acq: 23 Dec 2024 22:16

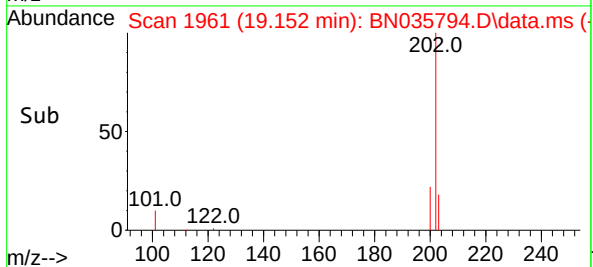
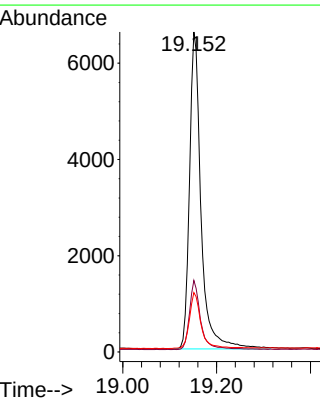
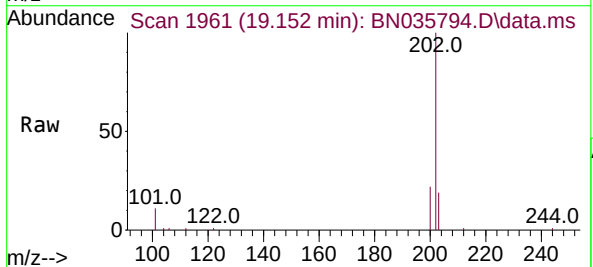
Tgt Ion:202 Resp: 11228

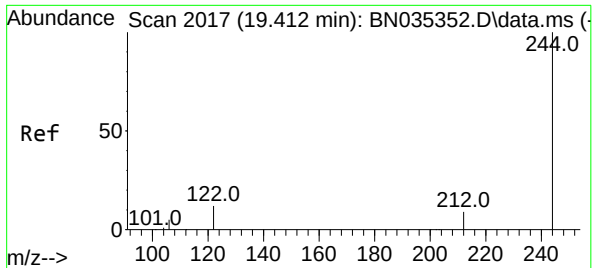
Ion Ratio Lower Upper

202 100

200 20.8 17.0 25.4

203 17.7 14.3 21.5





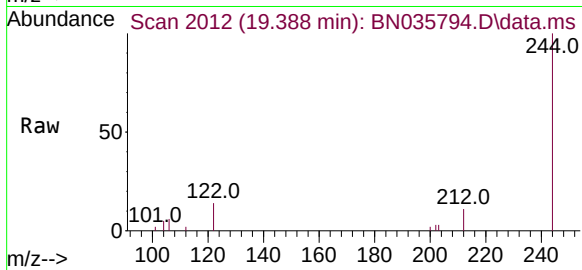
#31  
Terphenyl-d14  
Concen: 0.398 ng  
RT: 19.388 min Scan# 2017  
Delta R.T. -0.000 min  
Lab File: BN035794.D  
Acq: 23 Dec 2024 22:16

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

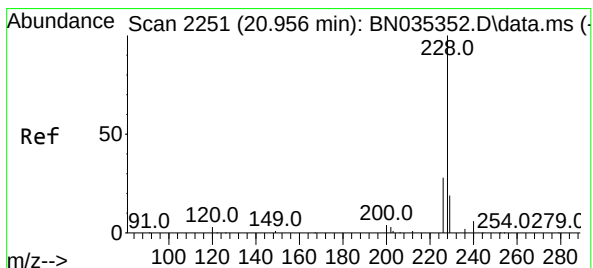
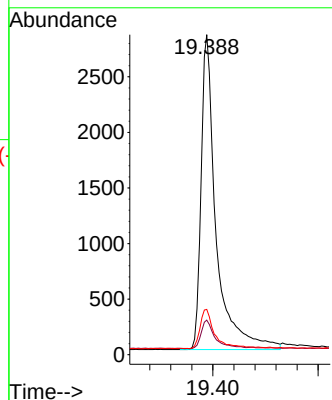
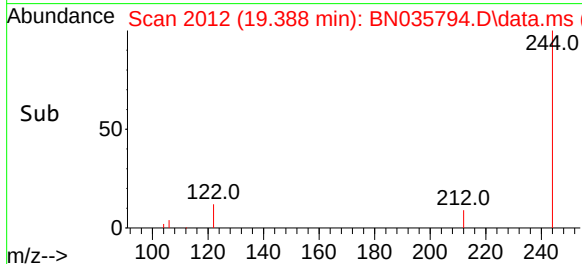


Tgt Ion:244 Resp: 5620  
Ion Ratio Lower Upper  
244 100  
212 10.8 8.1 12.1  
122 14.2 10.3 15.5

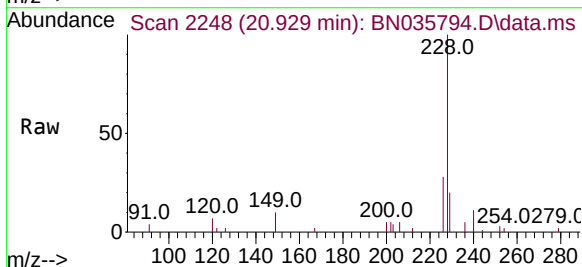
Manual Integrations

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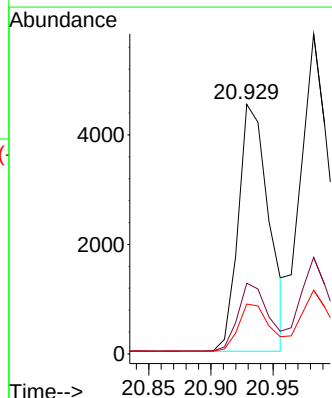
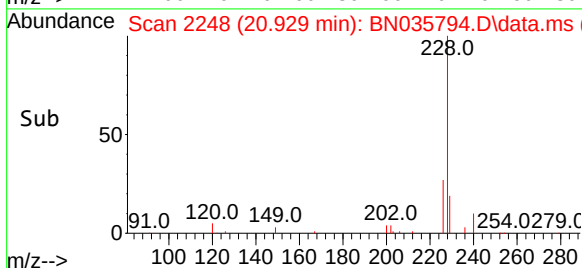
Reviewed By :Yogesh Patel 12/24/2024  
Supervised By :mohammad ahmed 12/26/2024

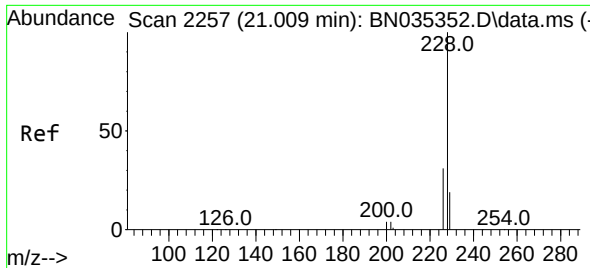


#32  
Benzo(a)anthracene  
Concen: 0.308 ng  
RT: 20.929 min Scan# 2248  
Delta R.T. -0.009 min  
Lab File: BN035794.D  
Acq: 23 Dec 2024 22:16



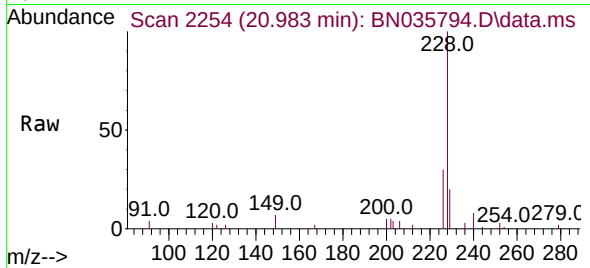
Tgt Ion:228 Resp: 7716  
Ion Ratio Lower Upper  
228 100  
226 28.3 22.5 33.7  
229 20.0 15.8 23.8





#33  
Chrysene  
Concen: 0.431 ng  
RT: 20.983 min Scan# 21129  
Delta R.T. -0.009 min  
Lab File: BN035794.D  
Acq: 23 Dec 2024 22:16

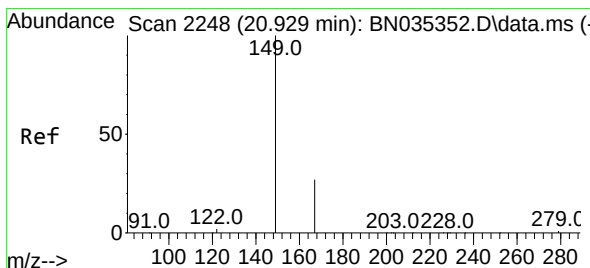
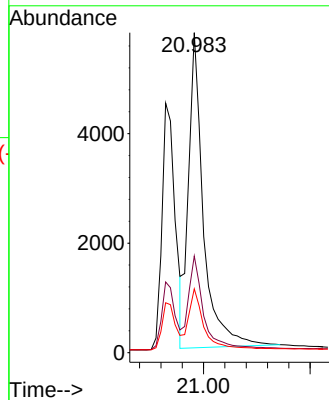
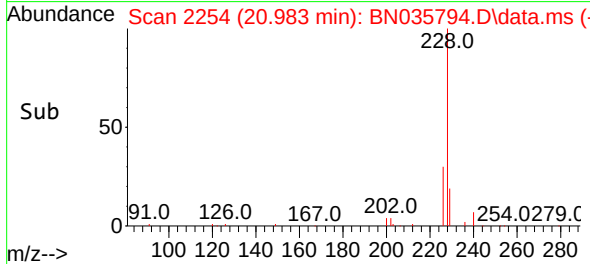
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4



Tgt Ion:228 Resp: 11129  
Ion Ratio Lower Upper  
228 100  
226 30.2 24.6 37.0  
229 19.9 15.9 23.9

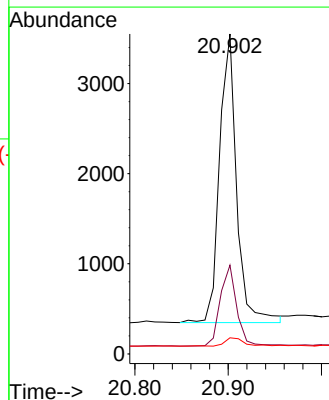
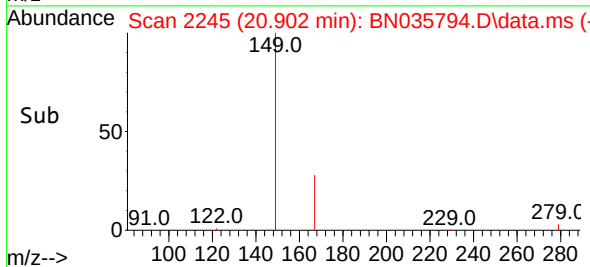
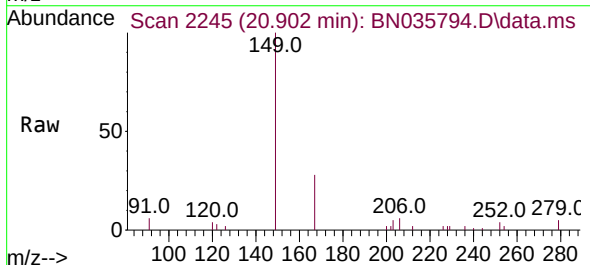
Manual Integrations  
**APPROVED**

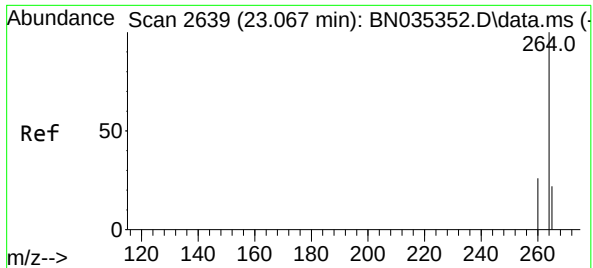
Reviewed By :Yogesh Patel 12/24/2024  
Supervised By :mohammad ahmed 12/26/2024



#34  
Bis(2-ethylhexyl)phthalate  
Concen: 0.411 ng  
RT: 20.902 min Scan# 2245  
Delta R.T. -0.009 min  
Lab File: BN035794.D  
Acq: 23 Dec 2024 22:16

Tgt Ion:149 Resp: 4068  
Ion Ratio Lower Upper  
149 100  
167 27.3 22.2 33.4  
279 3.6 2.7 4.1





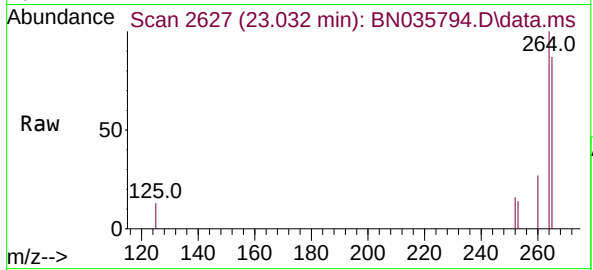
#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.032 min Scan# 2627  
Delta R.T. -0.009 min  
Lab File: BN035794.D  
Acq: 23 Dec 2024 22:16

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4



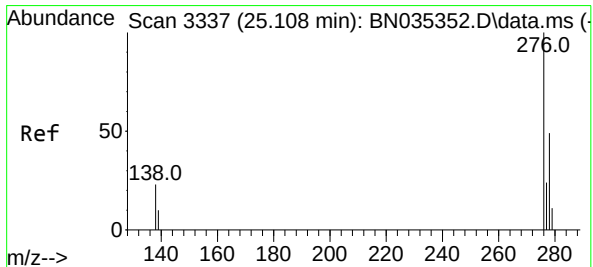
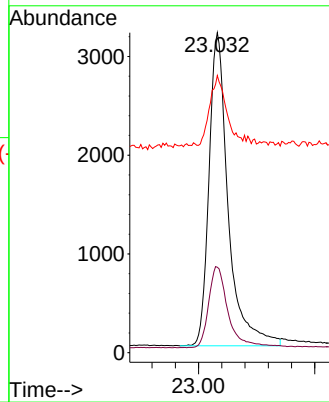
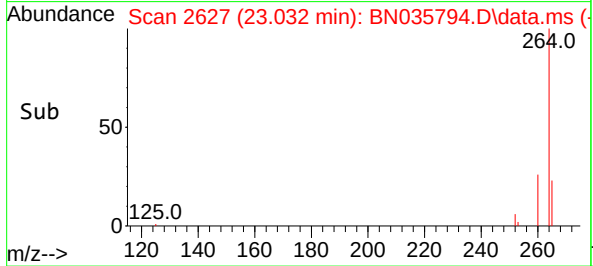
Tgt Ion:264 Resp: 727  
Ion Ratio Lower Upper  
264 100  
260 26.7 21.4 32.2  
265 86.6 40.2 60.4

Manual Integrations

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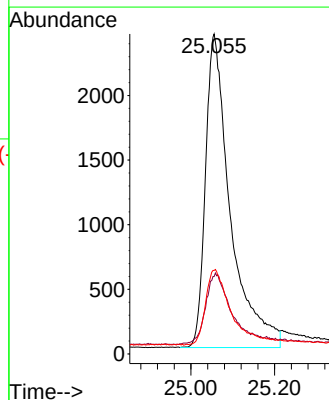
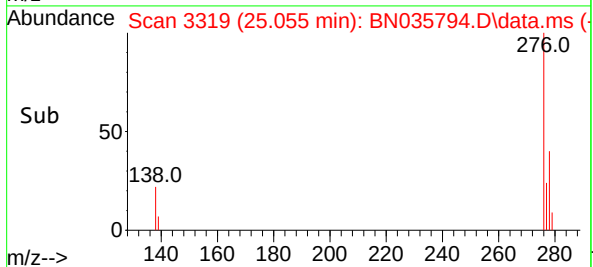
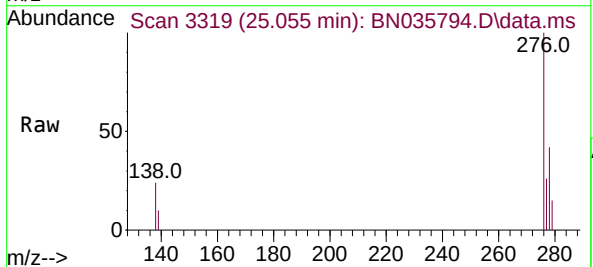
Reviewed By :Yogesh Patel 12/24/2024

Supervised By :mohammad ahmed 12/26/2024

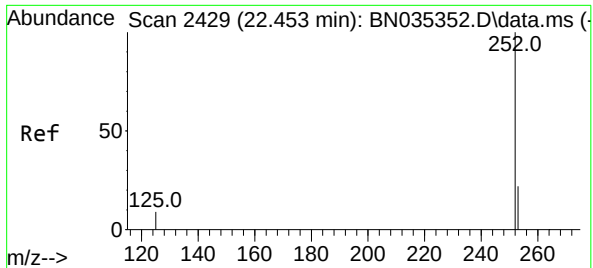


#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.352 ng  
RT: 25.055 min Scan# 3319  
Delta R.T. -0.012 min  
Lab File: BN035794.D  
Acq: 23 Dec 2024 22:16

Tgt Ion:276 Resp: 10012  
Ion Ratio Lower Upper  
276 100  
138 22.3 19.4 29.0  
277 24.6 19.8 29.6







#37

Benzo(b)fluoranthene

Concen: 0.533 ng

RT: 22.421 min Scan# 2418

Delta R.T. -0.009 min

Lab File: BN035794.D

Acq: 23 Dec 2024 22:16

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion:252 Resp: 1418

Ion Ratio Lower Upper

252 100

253 26.7 19.6 29.4

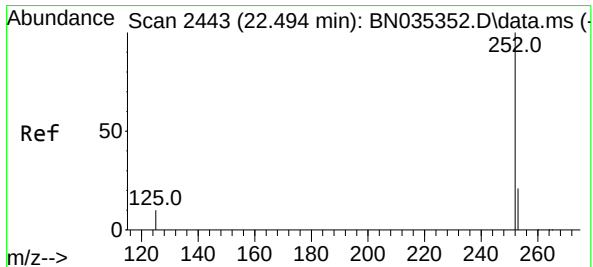
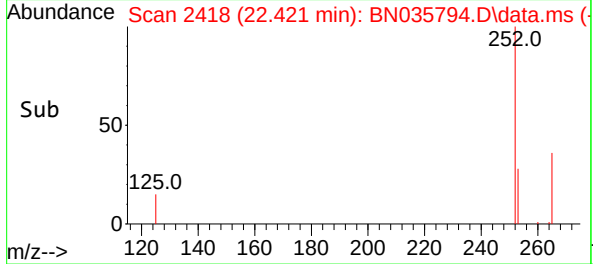
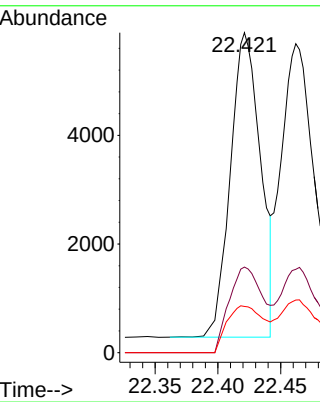
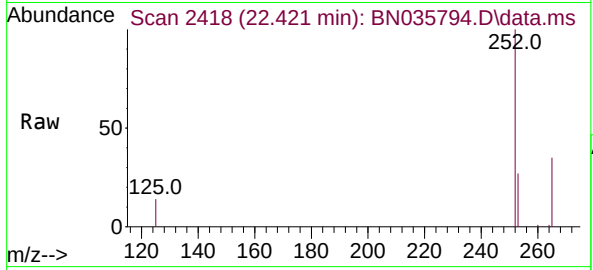
125 14.5 9.6 14.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/24/2024

Supervised By :mohammad ahmed 12/26/2024



#38

Benzo(k)fluoranthene

Concen: 0.416 ng m

RT: 22.462 min Scan# 2432

Delta R.T. -0.009 min

Lab File: BN035794.D

Acq: 23 Dec 2024 22:16

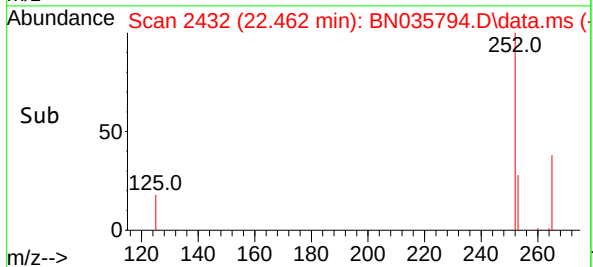
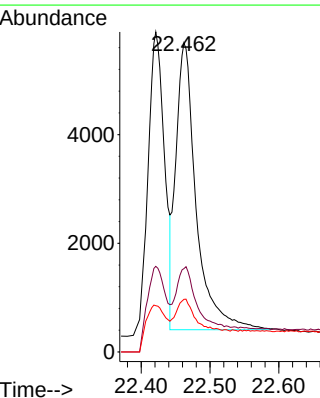
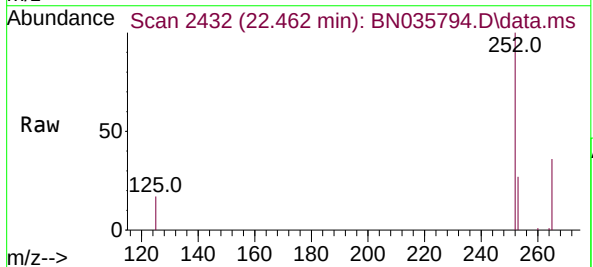
Tgt Ion:252 Resp: 10893

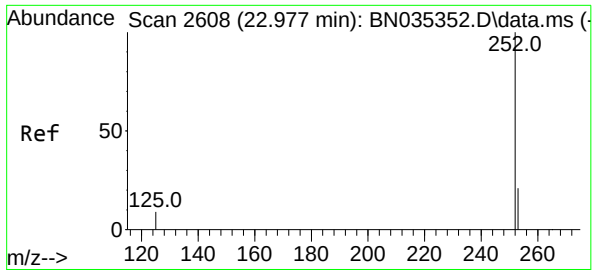
Ion Ratio Lower Upper

252 100

253 27.0 19.5 29.3

125 17.0 10.2 15.4





#39

Benzo(a)pyrene

Concen: 0.371 ng

RT: 22.944 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN035794.D

Acq: 23 Dec 2024 22:16

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

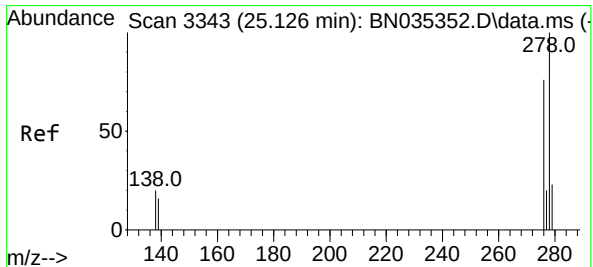
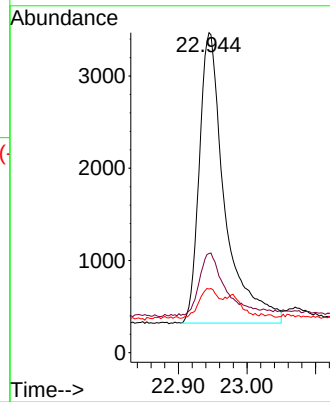
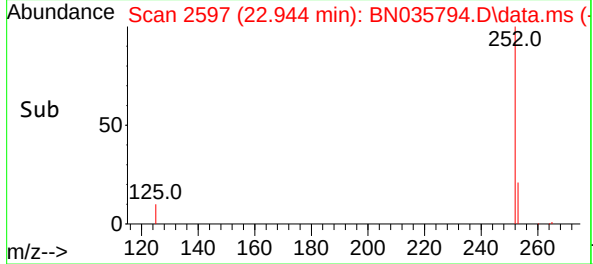
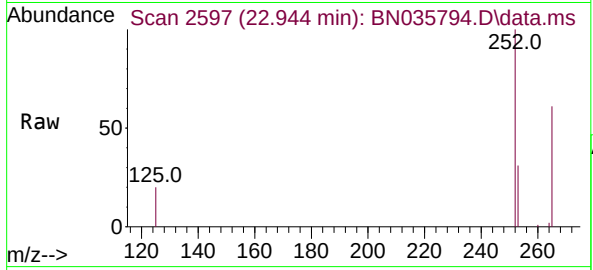
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 252   | Resp: | 814  |
| Ion Ratio | Lower | Upper |      |
| 252       | 100   |       |      |
| 253       | 31.0  | 20.2  | 30.4 |
| 125       | 19.9  | 10.9  | 16.3 |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/24/2024

Supervised By :mohammad ahmed 12/26/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.333 ng

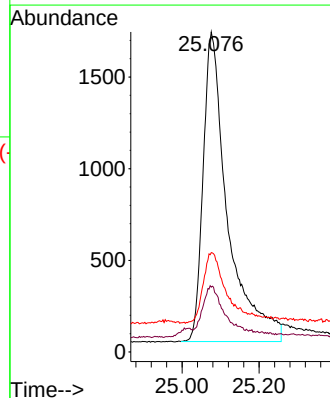
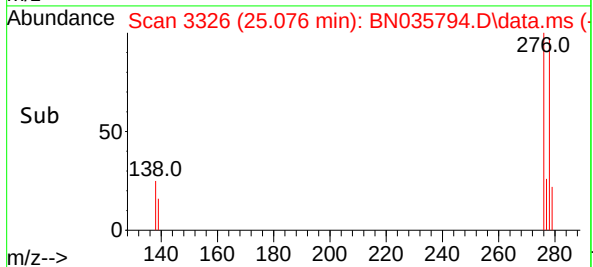
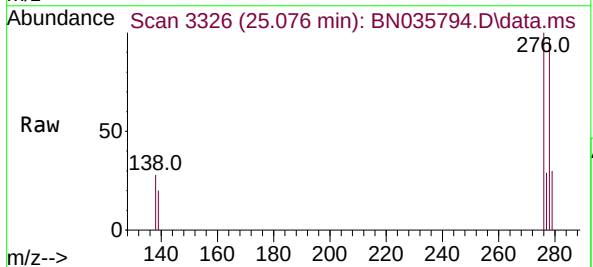
RT: 25.076 min Scan# 3326

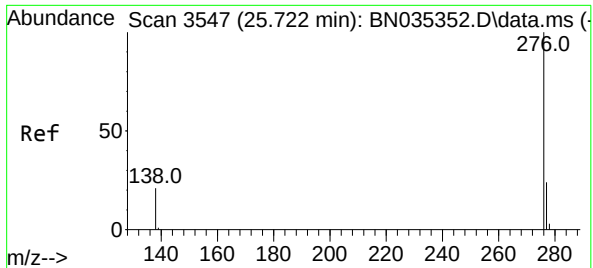
Delta R.T. -0.006 min

Lab File: BN035794.D

Acq: 23 Dec 2024 22:16

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 278   | Resp: | 7465 |
| Ion Ratio | Lower | Upper |      |
| 278       | 100   |       |      |
| 139       | 20.3  | 14.2  | 21.4 |
| 279       | 31.0  | 20.5  | 30.7 |





#41

Benzo(g,h,i)perylene

Concen: 0.401 ng

RT: 25.663 min Scan# 3

Delta R.T. -0.015 min

Lab File: BN035794.D

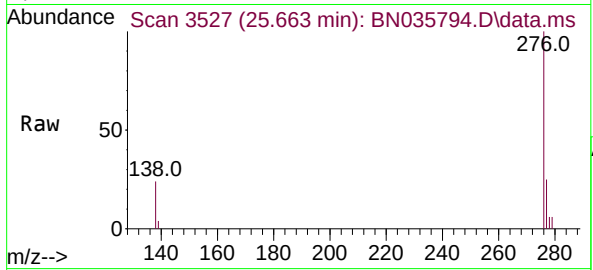
Acq: 23 Dec 2024 22:16

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4



Tgt Ion:276 Resp: 9418

Ion Ratio Lower Upper

276 100

277 25.4 19.9 29.9

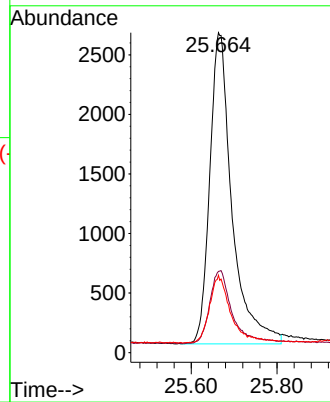
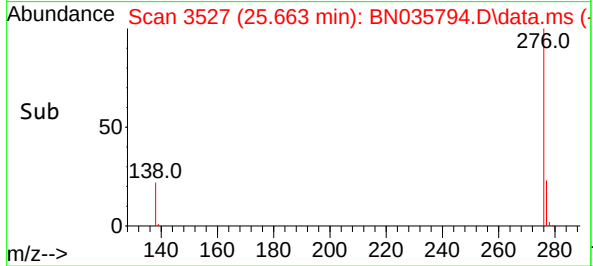
138 24.2 17.8 26.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/24/2024

Supervised By :mohammad ahmed 12/26/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN122324\  
 Data File : BN035794.D  
 Acq On : 23 Dec 2024 22:16  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 LabSampleId :  
 SSTDCCC0.4

Quant Time: Dec 24 00:13:20 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Dec 19 23:06:19 2024  
 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    | 158#  | 0.00     |
| 2       | 1,4-Dioxane                | 0.382 | 0.419 | -9.7   | 176#  | 0.00     |
| 3       | n-Nitrosodimethylamine     | 0.319 | 0.325 | -1.9   | 157#  | 0.00     |
| 4 S     | 2-Fluorophenol             | 1.001 | 0.924 | 7.7    | 143   | 0.00     |
| 5 S     | Phenol-d6                  | 1.204 | 1.016 | 15.6   | 134   | -0.01    |
| 6       | bis(2-Chloroethyl)ether    | 1.012 | 0.880 | 13.0   | 140   | -0.01    |
| 7 I     | Naphthalene-d8             | 1.000 | 1.000 | 0.0    | 151#  | -0.01    |
| 8 S     | Nitrobenzene-d5            | 0.244 | 0.278 | -13.9  | 179#  | -0.01    |
| 9       | Naphthalene                | 1.055 | 0.998 | 5.4    | 144   | -0.01    |
| 10      | Hexachlorobutadiene        | 0.243 | 0.264 | -8.6   | 161#  | -0.01    |
| 11 SURR | 2-Methylnaphthalene-d10    | 0.626 | 0.540 | 13.7   | 131   | 0.00     |
| 12      | 2-Methylnaphthalene        | 0.755 | 0.638 | 15.5   | 130   | 0.00     |
| 13 I    | Acenaphthene-d10           | 1.000 | 1.000 | 0.0    | 118   | -0.01    |
| 14 S    | 2,4,6-Tribromophenol       | 0.284 | 0.208 | 26.8#  | 96    | 0.00     |
| 15 S    | 2-Fluorobiphenyl           | 1.512 | 1.529 | -1.1   | 120   | 0.00     |
| 16      | Acenaphthylene             | 1.680 | 1.560 | 7.1    | 115   | -0.01    |
| 17      | Acenaphthene               | 1.115 | 1.052 | 5.7    | 114   | -0.01    |
| 18      | Fluorene                   | 1.596 | 1.340 | 16.0   | 102   | -0.01    |
| 19 I    | Phenanthrene-d10           | 1.000 | 1.000 | 0.0    | 93    | 0.00     |
| 20      | 4,6-Dinitro-2-methylphenol | 0.039 | 0.025 | 35.9#  | 66    | 0.01     |
| 21      | 4-Bromophenyl-phenylether  | 0.234 | 0.217 | 7.3    | 89    | -0.01    |
| 22      | Hexachlorobenzene          | 0.275 | 0.317 | -15.3  | 108   | -0.01    |
| 23      | Atrazine                   | 0.167 | 0.151 | 9.6    | 92    | 0.00     |
| 24      | Pentachlorophenol          | 0.120 | 0.089 | 25.8#  | 86    | 0.00     |
| 25      | Phenanthrene               | 1.099 | 0.998 | 9.2    | 87    | -0.01    |
| 26      | Anthracene                 | 0.994 | 0.867 | 12.8   | 86    | 0.00     |
| 27 SURR | Fluoranthene-d10           | 1.134 | 0.950 | 16.2   | 82    | 0.00     |
| 28      | Fluoranthene               | 1.481 | 1.244 | 16.0   | 82    | 0.00     |
| 29 I    | Chrysene-d12               | 1.000 | 1.000 | 0.0    | 75    | 0.00     |
| 30      | Pyrene                     | 1.477 | 1.567 | -6.1   | 80    | 0.00     |
| 31 S    | Terphenyl-d14              | 0.789 | 0.785 | 0.5    | 75    | 0.00     |
| 32      | Benzo(a)anthracene         | 1.399 | 1.077 | 23.0   | 60    | 0.00     |
| 33      | Chrysene                   | 1.443 | 1.554 | -7.7   | 81    | 0.00     |
| 34      | Bis(2-ethylhexyl)phthalate | 0.553 | 0.568 | -2.7   | 83    | 0.00     |
| 35 I    | Perylene-d12               | 1.000 | 1.000 | 0.0    | 67    | 0.00     |
| 36      | Indeno(1,2,3-cd)pyrene     | 1.564 | 1.376 | 12.0   | 60    | -0.01    |
| 37      | Benzo(b)fluoranthene       | 1.463 | 1.950 | -33.3# | 100   | 0.00     |
| 38      | Benzo(k)fluoranthene       | 1.440 | 1.497 | -4.0   | 72    | 0.00     |
| 39 C    | Benzo(a)pyrene             | 1.205 | 1.119 | 7.1    | 66    | 0.00     |
| 40      | Dibenzo(a,h)anthracene     | 1.234 | 1.026 | 16.9   | 58    | 0.00     |
| 41      | Benzo(g,h,i)perylene       | 1.289 | 1.294 | -0.4   | 70    | -0.01    |

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN122324\  
 Data File : BN035794.D  
 Acq On : 23 Dec 2024 22:16  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 LabSampleId :  
 SSTDCCC0.4

Quant Time: Dec 24 00:13:20 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Dec 19 23:06:19 2024  
 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    | 158   | 0.00     |
| 2       | 1,4-Dioxane                | 0.400  | 0.438 | -9.5   | 176   | 0.00     |
| 3       | n-Nitrosodimethylamine     | 0.400  | 0.409 | -2.2   | 157   | 0.00     |
| 4 S     | 2-Fluorophenol             | 0.400  | 0.369 | 7.8    | 143   | 0.00     |
| 5 S     | Phenol-d6                  | 0.400  | 0.338 | 15.5   | 134   | -0.01    |
| 6       | bis(2-Chloroethyl)ether    | 0.400  | 0.348 | 13.0   | 140   | -0.01    |
| 7 I     | Naphthalene-d8             | 0.400  | 0.400 | 0.0    | 151   | -0.01    |
| 8 S     | Nitrobenzene-d5            | 0.400  | 0.456 | -14.0  | 179   | -0.01    |
| 9       | Naphthalene                | 0.400  | 0.379 | 5.3    | 144   | -0.01    |
| 10      | Hexachlorobutadiene        | 0.400  | 0.434 | -8.5   | 161   | -0.01    |
| 11 SURR | 2-Methylnaphthalene-d10    | 0.400  | 0.345 | 13.8   | 131   | 0.00     |
| 12      | 2-Methylnaphthalene        | 0.400  | 0.338 | 15.5   | 130   | 0.00     |
| 13 I    | Acenaphthene-d10           | 0.400  | 0.400 | 0.0    | 118   | -0.01    |
| 14 S    | 2,4,6-Tribromophenol       | 0.400  | 0.293 | 26.8#  | 96    | 0.00     |
| 15 S    | 2-Fluorobiphenyl           | 0.400  | 0.405 | -1.3   | 120   | 0.00     |
| 16      | Acenaphthylene             | 0.400  | 0.372 | 7.0    | 115   | -0.01    |
| 17      | Acenaphthene               | 0.400  | 0.377 | 5.8    | 114   | -0.01    |
| 18      | Fluorene                   | 0.400  | 0.336 | 16.0   | 102   | -0.01    |
| 19 I    | Phenanthrene-d10           | 0.400  | 0.400 | 0.0    | 93    | 0.00     |
| 20      | 4,6-Dinitro-2-methylphenol | 0.400  | 0.254 | 36.5#  | 66    | 0.01     |
| 21      | 4-Bromophenyl-phenylether  | 0.400  | 0.371 | 7.3    | 89    | -0.01    |
| 22      | Hexachlorobenzene          | 0.400  | 0.462 | -15.5  | 108   | -0.01    |
| 23      | Atrazine                   | 0.400  | 0.363 | 9.3    | 92    | 0.00     |
| 24      | Pentachlorophenol          | 0.400  | 0.296 | 26.0#  | 86    | 0.00     |
| 25      | Phenanthrene               | 0.400  | 0.363 | 9.3    | 87    | -0.01    |
| 26      | Anthracene                 | 0.400  | 0.349 | 12.8   | 86    | 0.00     |
| 27 SURR | Fluoranthene-d10           | 0.400  | 0.335 | 16.3   | 82    | 0.00     |
| 28      | Fluoranthene               | 0.400  | 0.336 | 16.0   | 82    | 0.00     |
| 29 I    | Chrysene-d12               | 0.400  | 0.400 | 0.0    | 75    | 0.00     |
| 30      | Pyrene                     | 0.400  | 0.425 | -6.2   | 80    | 0.00     |
| 31 S    | Terphenyl-d14              | 0.400  | 0.398 | 0.5    | 75    | 0.00     |
| 32      | Benzo(a)anthracene         | 0.400  | 0.308 | 23.0   | 60    | 0.00     |
| 33      | Chrysene                   | 0.400  | 0.431 | -7.7   | 81    | 0.00     |
| 34      | Bis(2-ethylhexyl)phthalate | 0.400  | 0.411 | -2.7   | 83    | 0.00     |
| 35 I    | Perylene-d12               | 0.400  | 0.400 | 0.0    | 67    | 0.00     |
| 36      | Indeno(1,2,3-cd)pyrene     | 0.400  | 0.352 | 12.0   | 60    | -0.01    |
| 37      | Benzo(b)fluoranthene       | 0.400  | 0.533 | -33.3# | 100   | 0.00     |
| 38      | Benzo(k)fluoranthene       | 0.400  | 0.416 | -4.0   | 72    | 0.00     |
| 39 C    | Benzo(a)pyrene             | 0.400  | 0.371 | 7.3    | 66    | 0.00     |
| 40      | Dibenzo(a,h)anthracene     | 0.400  | 0.333 | 16.8   | 58    | 0.00     |
| 41      | Benzo(g,h,i)perylene       | 0.400  | 0.401 | -0.3   | 70    | -0.01    |

(#) = Out of Range

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



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

7C

## SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P5284 SAS No.: P5284 SDG No.: P5284

Instrument ID: BNA\_N Calibration Date/Time: 12/24/2024 07:09

Lab File ID: BN035809.D Init. Calib. Date(s): 11/27/2024 11/27/2024

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 15:34 19:09

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

| COMPOUND                | RRF   | RRF0.4 | MIN<br>RRF | %D    | MAX%D |
|-------------------------|-------|--------|------------|-------|-------|
| 2-Methylnaphthalene-d10 | 0.626 | 0.563  |            | -10.1 | 50.0  |
| Fluoranthene-d10        | 1.134 | 0.947  |            | -16.5 | 50.0  |
| 2-Fluorophenol          | 1.001 | 0.946  |            | -5.5  | 50.0  |
| Phenol-d6               | 1.204 | 1.086  |            | -9.8  | 50.0  |
| Nitrobenzene-d5         | 0.244 | 0.307  |            | 25.8  | 50.0  |
| 2-Fluorobiphenyl        | 1.512 | 1.535  |            | 1.5   | 50.0  |
| 2,4,6-Tribromophenol    | 0.284 | 0.224  |            | -21.1 | 50.0  |
| Terphenyl-d14           | 0.789 | 0.817  |            | 3.5   | 50.0  |
| 1,4-Dioxane             | 0.382 | 0.382  |            | 0.0   | 50.0  |

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN122324\  
 Data File : BN035809.D  
 Acq On : 24 Dec 2024 07:09  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 93 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4EC

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 12/24/2024  
 Supervised By :mohammad ahmed 12/26/2024

Quant Time: Dec 24 07:43:23 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Dec 19 23:06:19 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.257  | 152  | 8362     | 0.400 | ng    | -0.01    |
| 7) Naphthalene-d8             | 9.999  | 136  | 20753    | 0.400 | ng    | #-0.02   |
| 13) Acenaphthene-d10          | 13.914 | 164  | 12456    | 0.400 | ng    | -0.02    |
| 19) Phenanthrene-d10          | 16.686 | 188  | 24922    | 0.400 | ng    | #-0.01   |
| 29) Chrysene-d12              | 20.947 | 240  | 20198    | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.026 | 264  | 21431    | 0.400 | ng    | -0.01    |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 4.924  | 112  | 7909     | 0.378 | ng    | -0.01    |
| 5) Phenol-d6                  | 6.470  | 99   | 9085     | 0.361 | ng    | -0.02    |
| 8) Nitrobenzene-d5            | 8.397  | 82   | 6379m    | 0.503 | ng    | -0.01    |
| 11) 2-Methylnaphthalene-d10   | 11.605 | 152  | 11679    | 0.360 | ng    | -0.02    |
| 14) 2,4,6-Tribromophenol      | 15.443 | 330  | 2792     | 0.316 | ng    | -0.01    |
| 15) 2-Fluorobiphenyl          | 12.523 | 172  | 19125    | 0.406 | ng    | -0.02    |
| 27) Fluoranthene-d10          | 18.747 | 212  | 23606    | 0.334 | ng    | -0.01    |
| 31) Terphenyl-d14             | 19.379 | 244  | 16501    | 0.414 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
|                               |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 2.974  | 88   | 3198     | 0.400 | ng    | 100      |
| 3) n-Nitrosodimethylamine     | 3.263  | 42   | 2673     | 0.401 | ng    | # 88     |
| 6) bis(2-Chloroethyl)ether    | 6.716  | 93   | 7863     | 0.372 | ng    | 99       |
| 9) Naphthalene                | 10.052 | 128  | 21064    | 0.385 | ng    | 98       |
| 10) Hexachlorobutadiene       | 10.340 | 225  | 5424     | 0.430 | ng    | # 100    |
| 12) 2-Methylnaphthalene       | 11.682 | 142  | 13794    | 0.352 | ng    | 98       |
| 16) Acenaphthylene            | 13.625 | 152  | 19447    | 0.372 | ng    | 99       |
| 17) Acenaphthene              | 13.978 | 154  | 13250    | 0.382 | ng    | 99       |
| 18) Fluorene                  | 14.983 | 166  | 17299    | 0.348 | ng    | 99       |
| 20) 4,6-Dinitro-2-methylph... | 15.101 | 198  | 892      | 0.364 | ng    | 99       |
| 21) 4-Bromophenyl-phenylether | 15.892 | 248  | 5717     | 0.392 | ng    | # 72     |
| 22) Hexachlorobenzene         | 15.991 | 284  | 7638     | 0.446 | ng    | 97       |
| 23) Atrazine                  | 16.189 | 200  | 3955     | 0.381 | ng    | 99       |
| 24) Pentachlorophenol         | 16.363 | 266  | 2368     | 0.318 | ng    | # 86     |
| 25) Phenanthrene              | 16.736 | 178  | 25787    | 0.377 | ng    | 100      |
| 26) Anthracene                | 16.822 | 178  | 22279    | 0.360 | ng    | 99       |
| 28) Fluoranthene              | 18.780 | 202  | 31096    | 0.337 | ng    | 100      |
| 30) Pyrene                    | 19.147 | 202  | 32211    | 0.432 | ng    | 100      |
| 32) Benzo(a)anthracene        | 20.929 | 228  | 25428    | 0.360 | ng    | 99       |
| 33) Chrysene                  | 20.983 | 228  | 29722    | 0.408 | ng    | 98       |
| 34) Bis(2-ethylhexyl)phtha... | 20.902 | 149  | 11220    | 0.402 | ng    | 99       |
| 36) Indeno(1,2,3-cd)pyrene    | 25.047 | 276  | 32558    | 0.389 | ng    | 100      |
| 37) Benzo(b)fluoranthene      | 22.418 | 252  | 43862    | 0.559 | ng    | 98       |
| 38) Benzo(k)fluoranthene      | 22.459 | 252  | 32848    | 0.426 | ng    | 97       |
| 39) Benzo(a)pyrene            | 22.939 | 252  | 23952    | 0.371 | ng    | 100      |
| 40) Dibenzo(a,h)anthracene    | 25.064 | 278  | 24090    | 0.364 | ng    | 99       |
| 41) Benzo(g,h,i)perylene      | 25.658 | 276  | 28353    | 0.410 | ng    | 99       |
| -----                         |        |      |          |       |       |          |

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

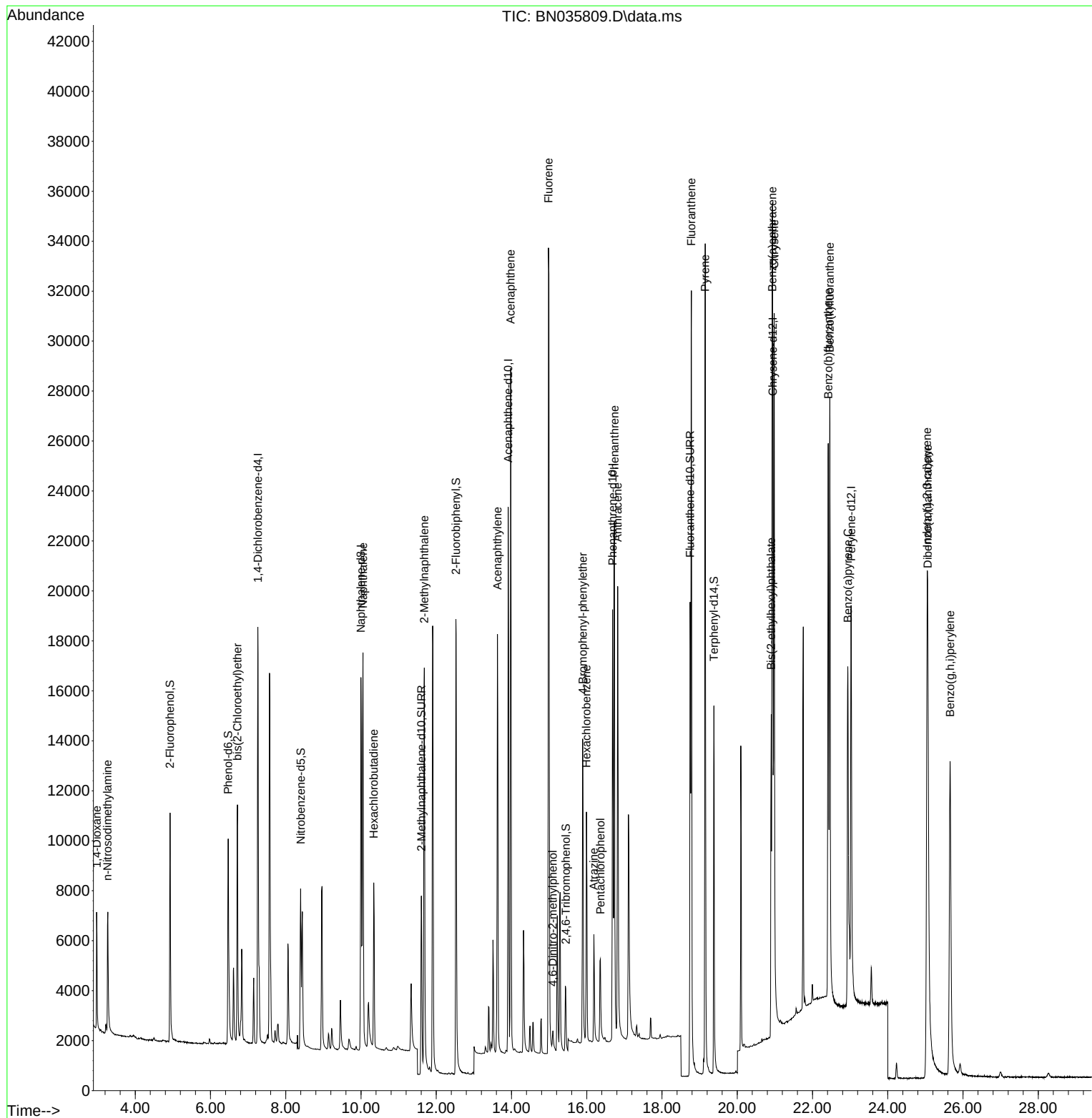
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN122324\  
 Data File : BN035809.D  
 Acq On : 24 Dec 2024 07:09  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 93 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4EC

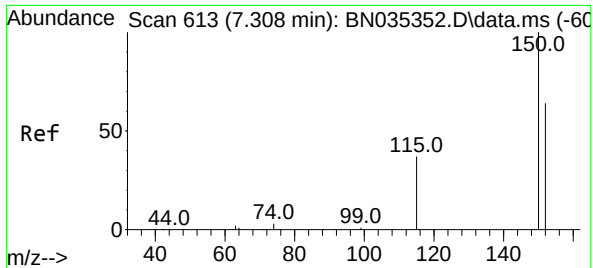
### Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/24/2024  
 Supervised By :mohammad ahmed 12/26/2024

Quant Time: Dec 24 07:43:23 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Dec 19 23:06:19 2024  
 Response via : Initial Calibration

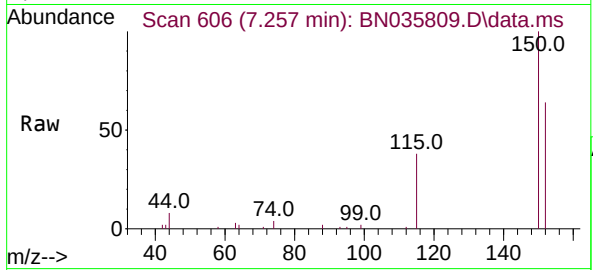






#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.257 min Scan# 60  
Delta R.T. -0.015 min  
Lab File: BN035809.D  
Acq: 24 Dec 2024 07:09

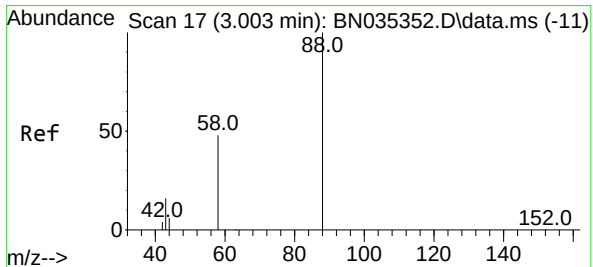
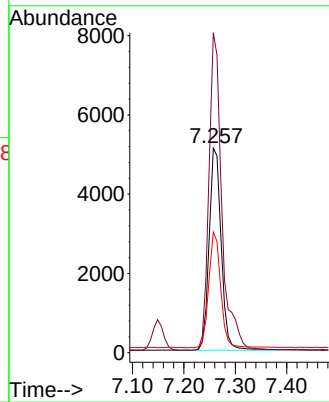
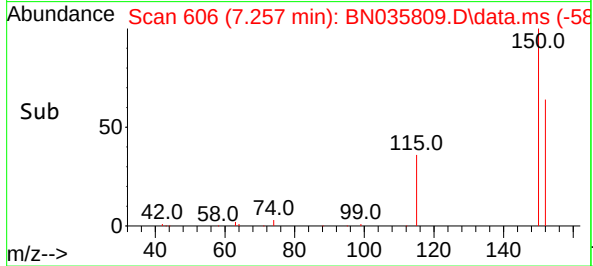
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC



Tgt Ion:152 Resp: 836  
Ion Ratio Lower Upper  
152 100  
150 156.5 124.0 186.0  
115 59.0 49.6 74.4

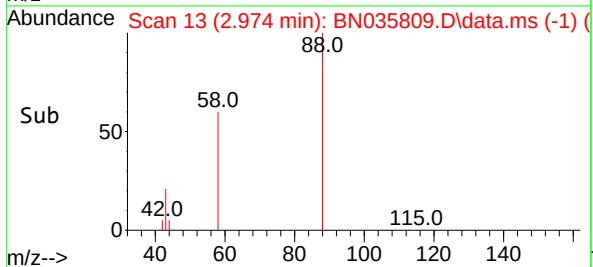
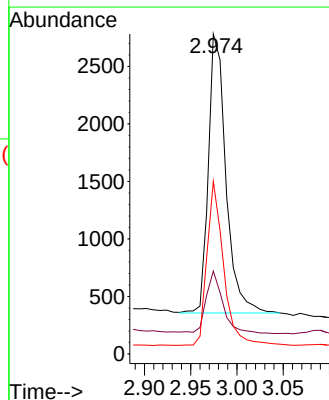
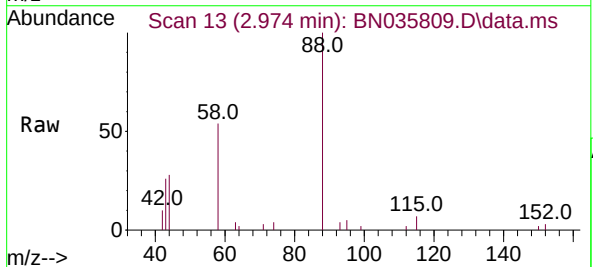
Manual Integrations  
APPROVED

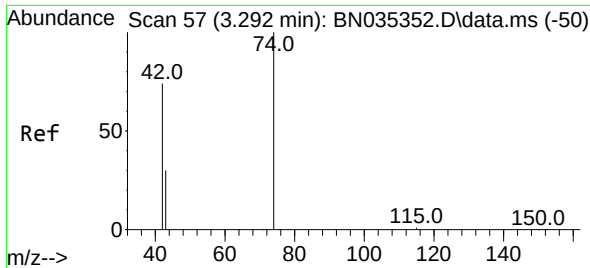
Reviewed By :Yogesh Patel 12/24/2024  
Supervised By :mohammad ahmed 12/26/2024



#2  
1,4-Dioxane  
Concen: 0.400 ng  
RT: 2.974 min Scan# 13  
Delta R.T. -0.007 min  
Lab File: BN035809.D  
Acq: 24 Dec 2024 07:09

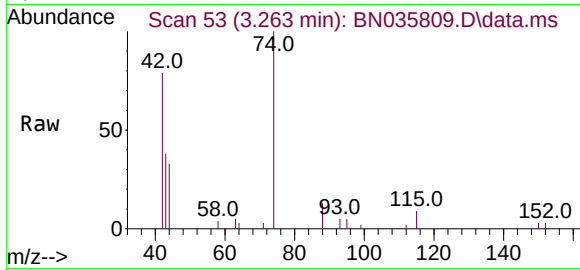
Tgt Ion: 88 Resp: 3198  
Ion Ratio Lower Upper  
88 100  
43 21.6 17.2 25.8  
58 55.7 44.5 66.7





#3  
n-Nitrosodimethylamine  
Concen: 0.401 ng  
RT: 3.263 min Scan# 51  
Delta R.T. -0.015 min  
Lab File: BN035809.D  
Acq: 24 Dec 2024 07:09

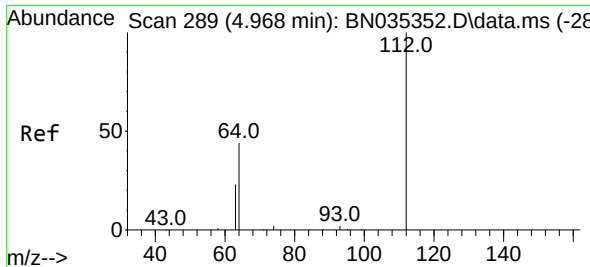
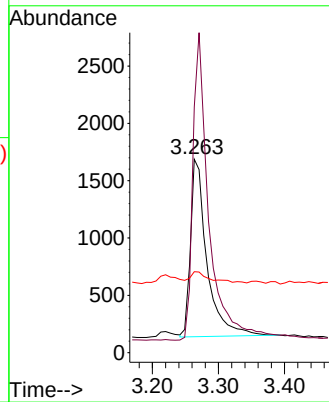
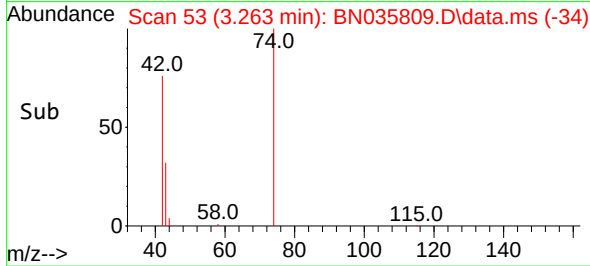
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC



Tgt Ion: 42 Resp: 267  
Ion Ratio Lower Upper  
42 100  
74 172.2 124.9 187.3  
44 9.1 2.2 3.4

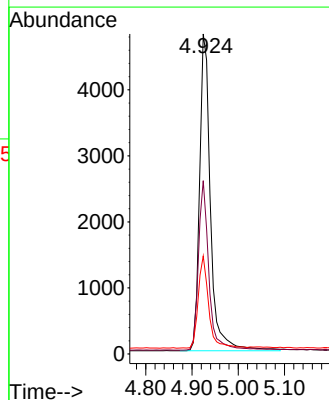
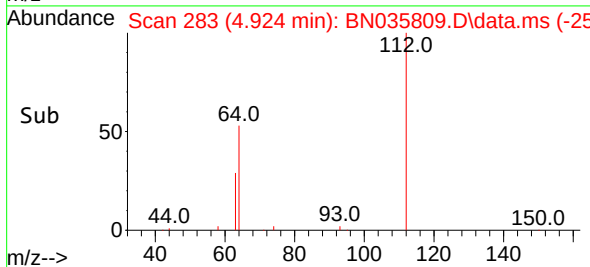
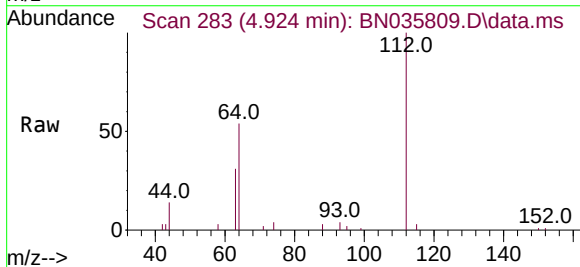
Manual Integrations  
APPROVED

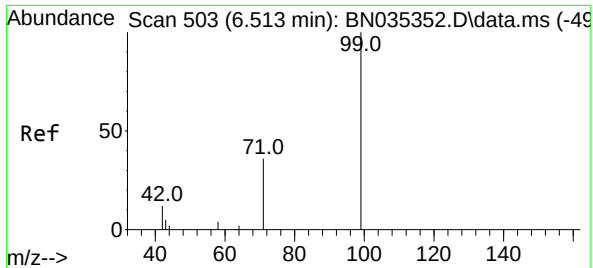
Reviewed By :Yogesh Patel 12/24/2024  
Supervised By :mohammad ahmed 12/26/2024



#4  
2-Fluorophenol  
Concen: 0.378 ng  
RT: 4.924 min Scan# 283  
Delta R.T. -0.015 min  
Lab File: BN035809.D  
Acq: 24 Dec 2024 07:09

Tgt Ion:112 Resp: 7909  
Ion Ratio Lower Upper  
112 100  
64 51.5 39.8 59.8  
63 28.0 21.0 31.6





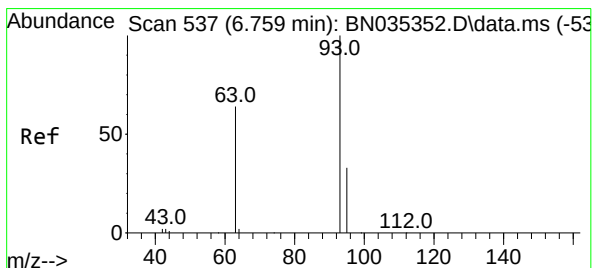
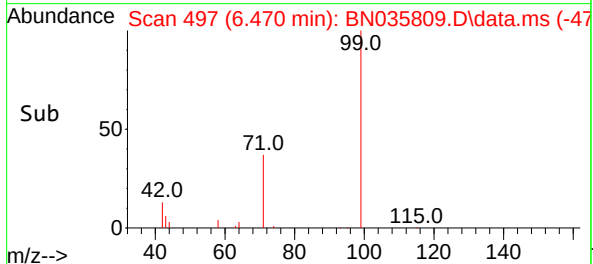
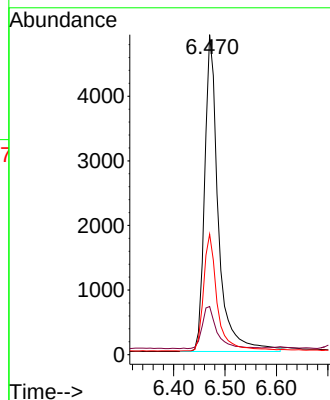
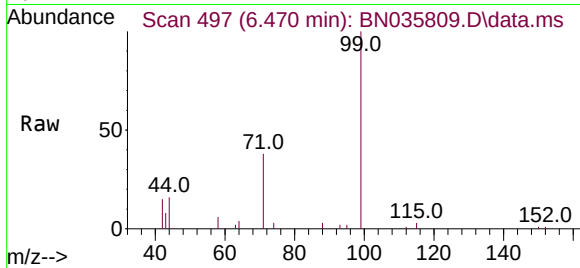
#5  
Phenol-d6  
Concen: 0.361 ng  
RT: 6.470 min Scan# 497  
Delta R.T. -0.022 min  
Lab File: BN035809.D  
Acq: 24 Dec 2024 07:09

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 99      | 100   |       |       |
| 42      | 14.3  | 11.4  | 17.2  |
| 71      | 37.3  | 29.3  | 43.9  |

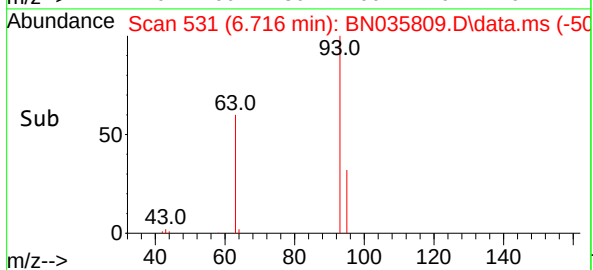
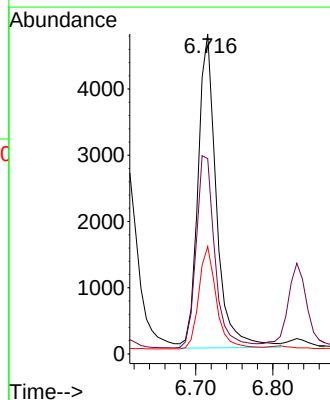
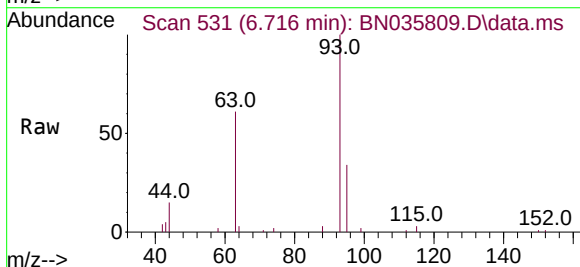
Manual Integrations  
**APPROVED**

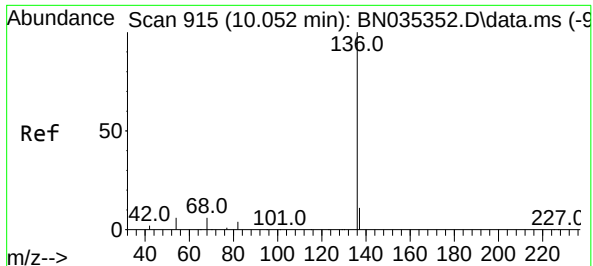
Reviewed By :Yogesh Patel 12/24/2024  
Supervised By :mohammad ahmed 12/26/2024



#6  
bis(2-Chloroethyl)ether  
Concen: 0.372 ng  
RT: 6.716 min Scan# 531  
Delta R.T. -0.015 min  
Lab File: BN035809.D  
Acq: 24 Dec 2024 07:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 93      | 100   |       |       |
| 63      | 62.7  | 50.4  | 75.6  |
| 95      | 31.6  | 25.7  | 38.5  |





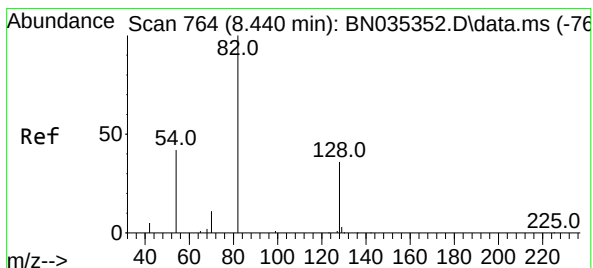
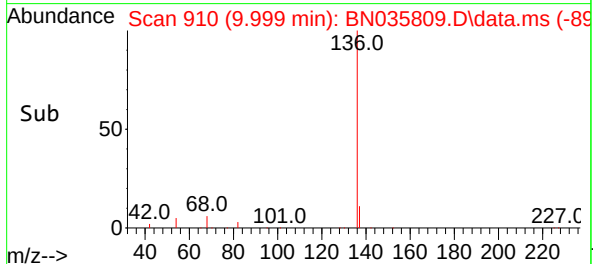
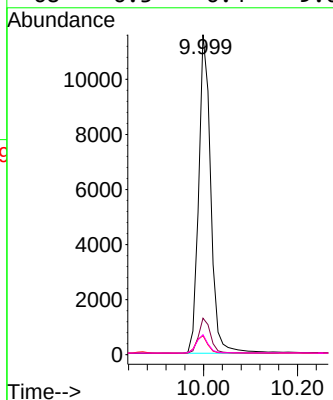
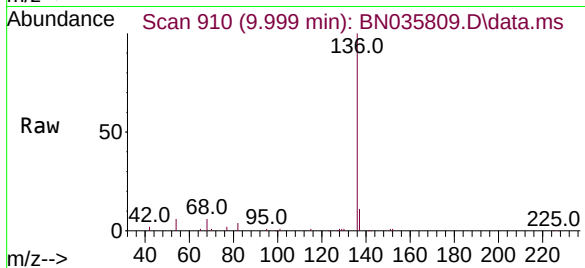
#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 9.999 min Scan# 915  
Delta R.T. -0.021 min  
Lab File: BN035809.D  
Acq: 24 Dec 2024 07:09

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

Tgt Ion:136 Resp: 2075  
Ion Ratio Lower Upper  
136 100  
137 11.4 10.2 15.2  
54 5.9 6.1 9.1  
68 6.3 6.4 9.6#

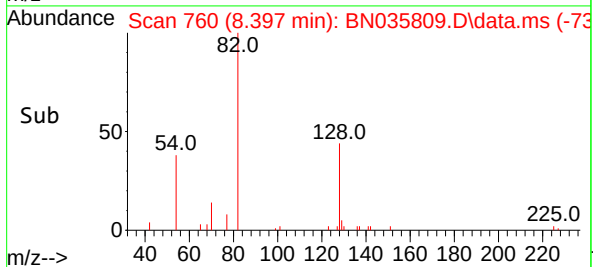
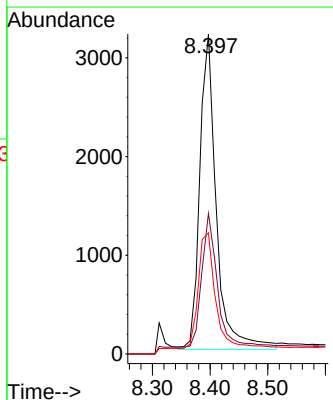
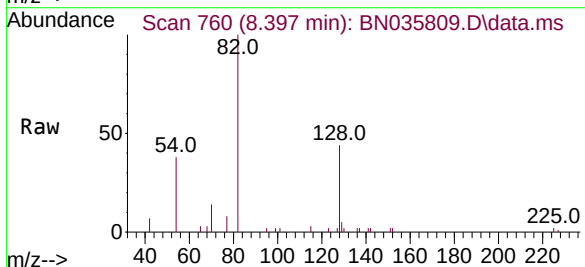
Manual Integrations  
APPROVED

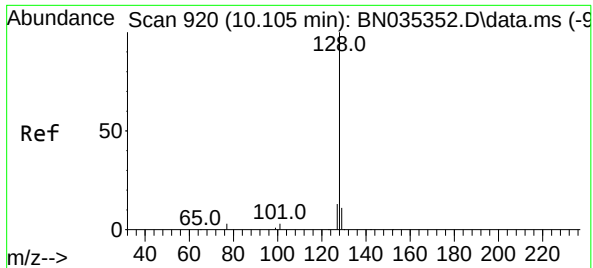
Reviewed By :Yogesh Patel 12/24/2024  
Supervised By :mohammad ahmed 12/26/2024



#8  
Nitrobenzene-d5  
Concen: 0.503 ng m  
RT: 8.397 min Scan# 760  
Delta R.T. -0.011 min  
Lab File: BN035809.D  
Acq: 24 Dec 2024 07:09

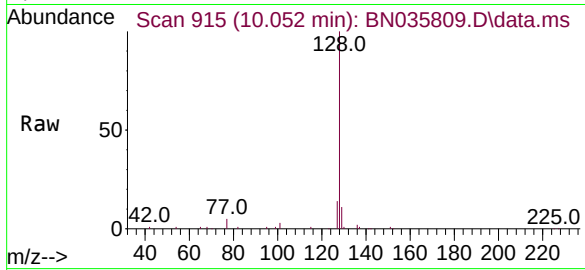
Tgt Ion: 82 Resp: 6379  
Ion Ratio Lower Upper  
82 100  
128 43.9 33.4 50.0  
54 37.9 36.7 55.1





#9  
Naphthalene  
Concen: 0.385 ng  
RT: 10.052 min Scan# 915  
Delta R.T. -0.011 min  
Lab File: BN035809.D  
Acq: 24 Dec 2024 07:09

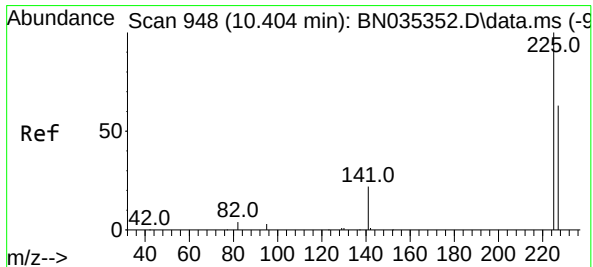
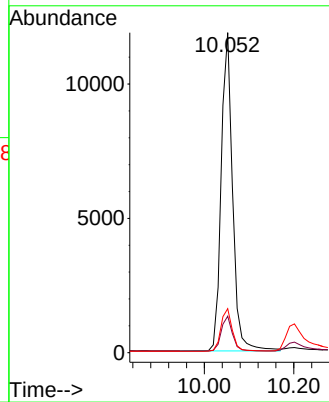
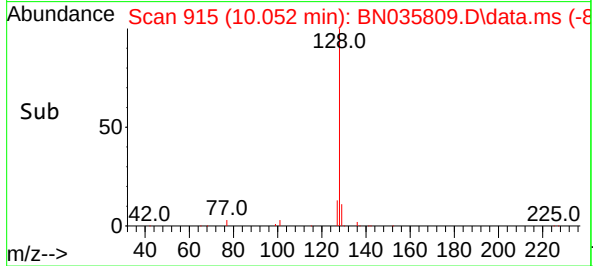
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC



Tgt Ion:128 Resp: 21064  
Ion Ratio Lower Upper  
128 100  
129 11.4 9.8 14.6  
127 13.8 11.4 17.2

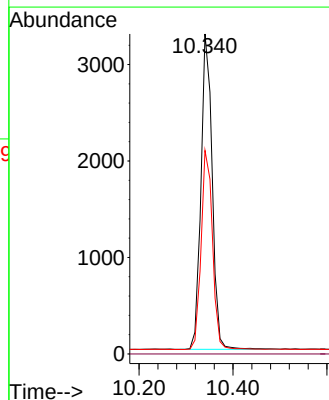
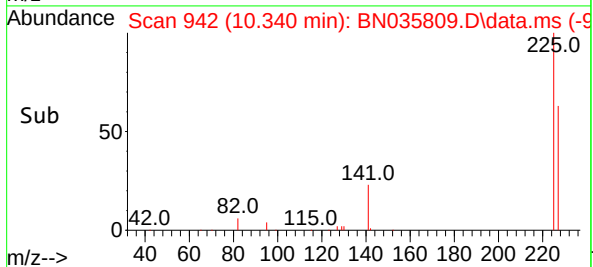
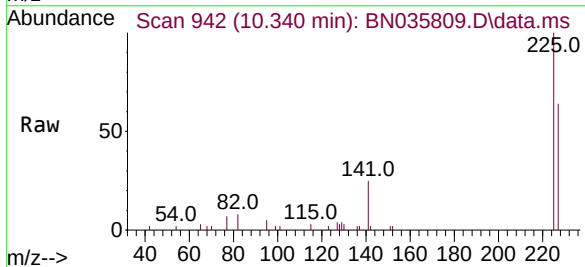
Manual Integrations  
**APPROVED**

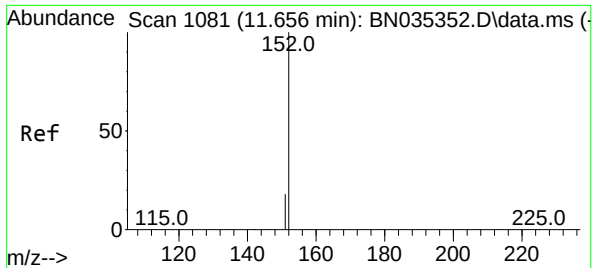
Reviewed By :Yogesh Patel 12/24/2024  
Supervised By :mohammad ahmed 12/26/2024



#10  
Hexachlorobutadiene  
Concen: 0.430 ng  
RT: 10.340 min Scan# 942  
Delta R.T. -0.021 min  
Lab File: BN035809.D  
Acq: 24 Dec 2024 07:09

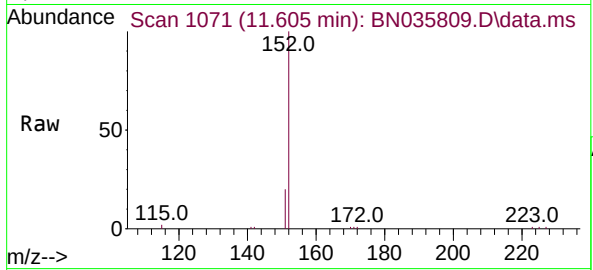
Tgt Ion:225 Resp: 5424  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 64.1 51.3 76.9





#11  
2-Methylnaphthalene-d10  
Concen: 0.360 ng  
RT: 11.605 min Scan# 1071  
Delta R.T. -0.015 min  
Lab File: BN035809.D  
Acq: 24 Dec 2024 07:09

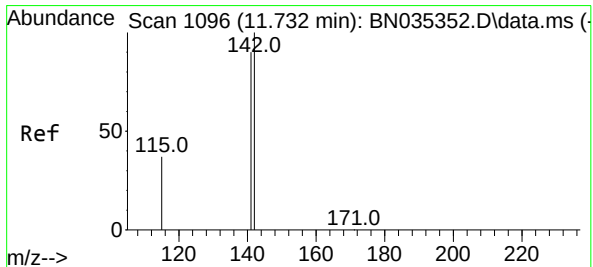
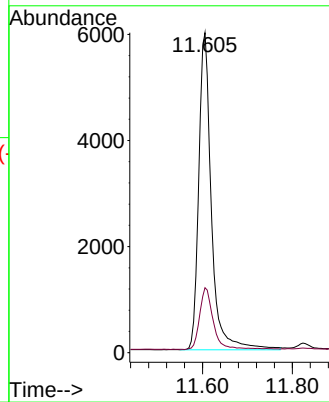
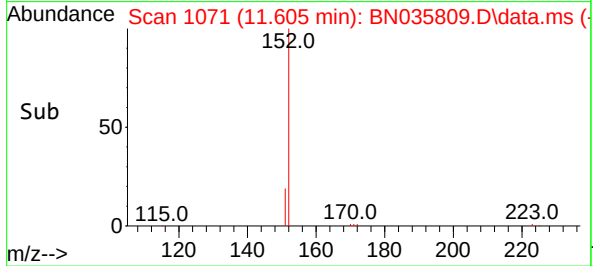
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC



Tgt Ion:152 Resp: 11679  
Ion Ratio Lower Upper  
152 100  
151 20.8 16.6 25.0

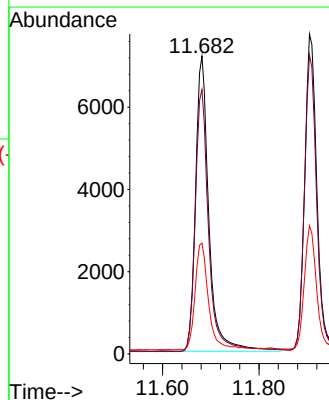
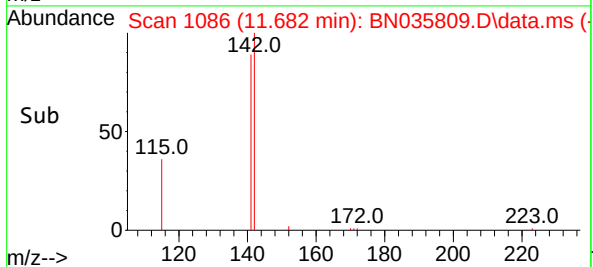
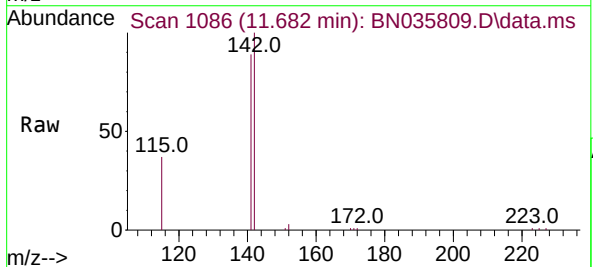
Manual Integrations  
APPROVED

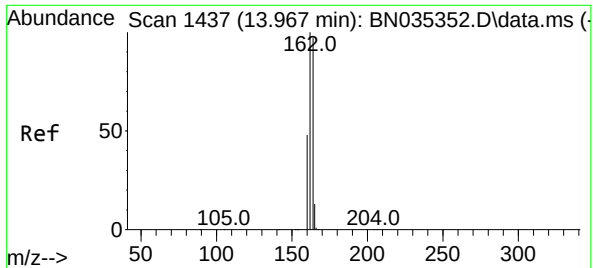
Reviewed By :Yogesh Patel 12/24/2024  
Supervised By :mohammad ahmed 12/26/2024



#12  
2-Methylnaphthalene  
Concen: 0.352 ng  
RT: 11.682 min Scan# 1086  
Delta R.T. -0.015 min  
Lab File: BN035809.D  
Acq: 24 Dec 2024 07:09

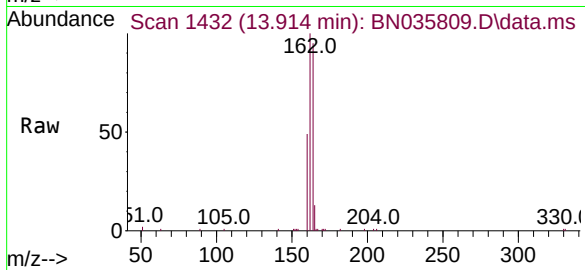
Tgt Ion:142 Resp: 13794  
Ion Ratio Lower Upper  
142 100  
141 88.8 72.2 108.4  
115 37.2 31.4 47.0





#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.914 min Scan# 1437  
Delta R.T. -0.021 min  
Lab File: BN035809.D  
Acq: 24 Dec 2024 07:09

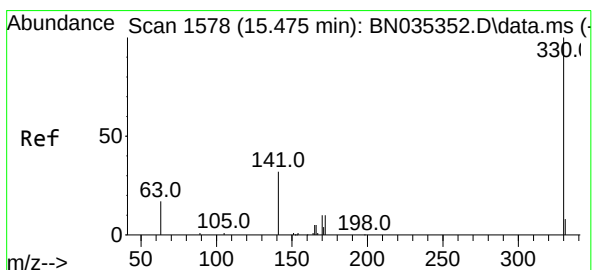
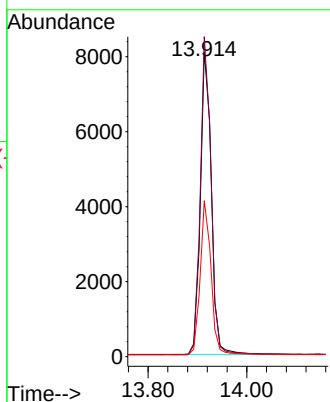
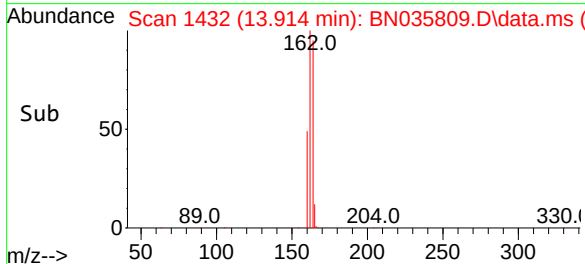
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC



Tgt Ion:164 Resp: 12450  
Ion Ratio Lower Upper  
164 100  
162 104.9 82.2 123.2  
160 51.2 40.1 60.1

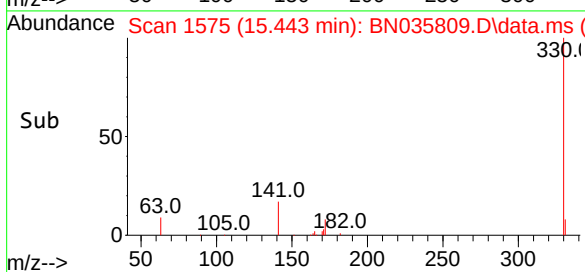
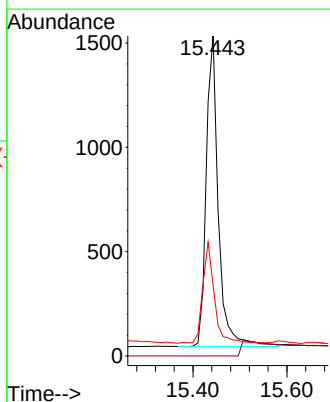
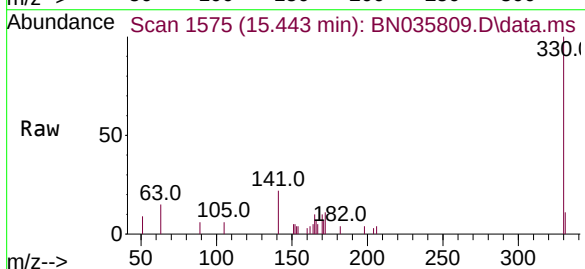
Manual Integrations  
APPROVED

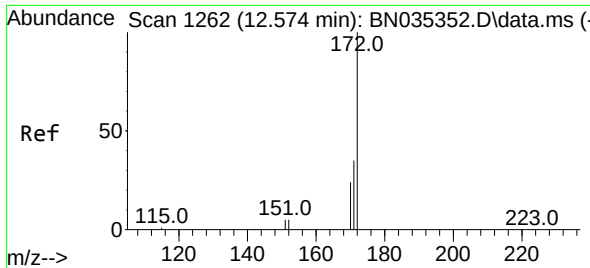
Reviewed By :Yogesh Patel 12/24/2024  
Supervised By :mohammad ahmed 12/26/2024



#14  
2,4,6-Tribromophenol  
Concen: 0.316 ng  
RT: 15.443 min Scan# 1575  
Delta R.T. -0.011 min  
Lab File: BN035809.D  
Acq: 24 Dec 2024 07:09

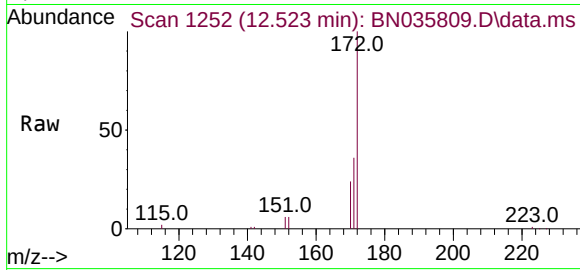
Tgt Ion:330 Resp: 2792  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 30.9 26.6 40.0





#15  
2-Fluorobiphenyl  
Concen: 0.406 ng  
RT: 12.523 min Scan# 11  
Delta R.T. -0.020 min  
Lab File: BN035809.D  
Acq: 24 Dec 2024 07:09

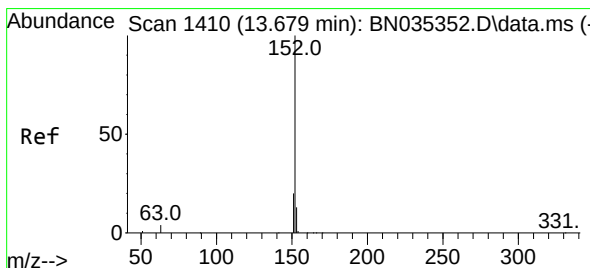
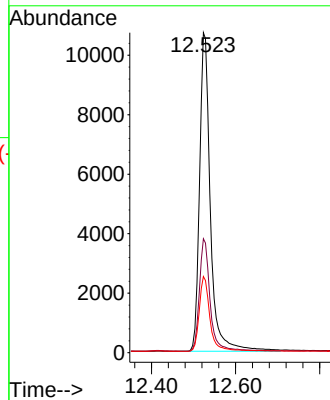
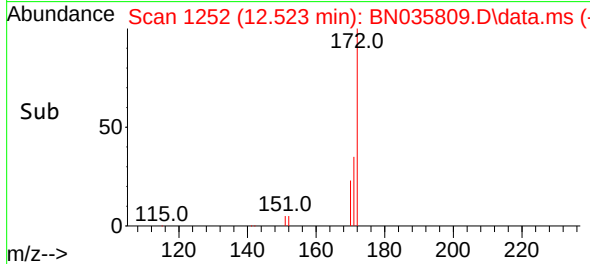
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC



Tgt Ion:172 Resp: 1912  
Ion Ratio Lower Upper  
172 100  
171 35.6 29.0 43.4  
170 23.8 19.8 29.8

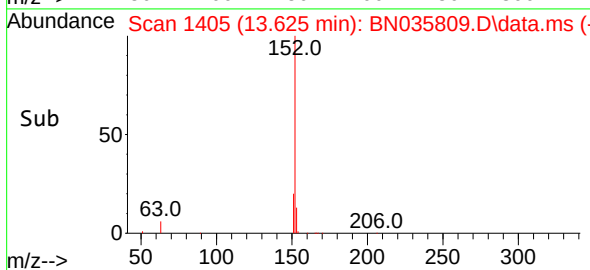
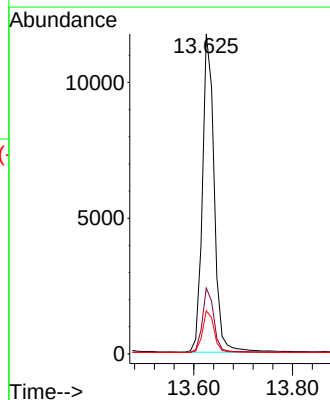
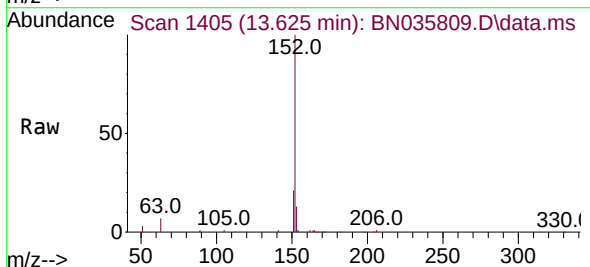
Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 12/24/2024  
Supervised By :mohammad ahmed 12/26/2024

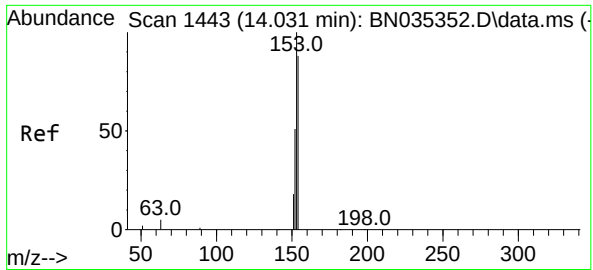


#16  
Acenaphthylene  
Concen: 0.372 ng  
RT: 13.625 min Scan# 1405  
Delta R.T. -0.021 min  
Lab File: BN035809.D  
Acq: 24 Dec 2024 07:09

Tgt Ion:152 Resp: 19447  
Ion Ratio Lower Upper  
152 100  
151 19.8 16.2 24.2  
153 13.1 10.4 15.6

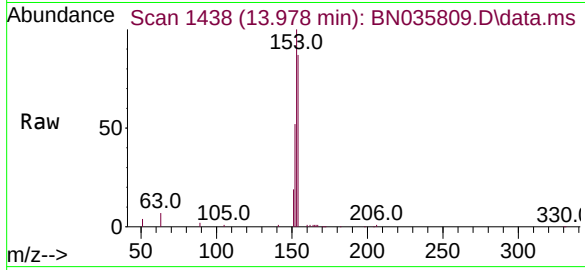






#17  
Acenaphthene  
Concen: 0.382 ng  
RT: 13.978 min Scan# 1443  
Delta R.T. -0.021 min  
Lab File: BN035809.D  
Acq: 24 Dec 2024 07:09

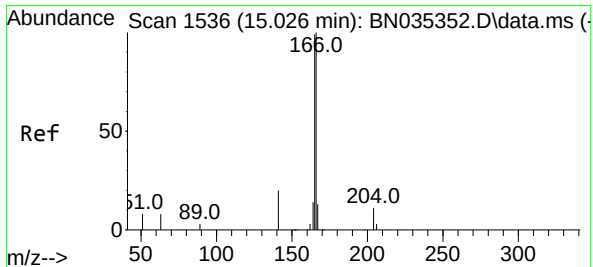
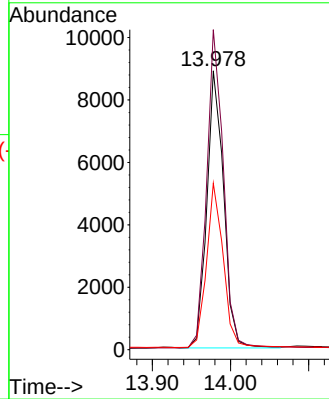
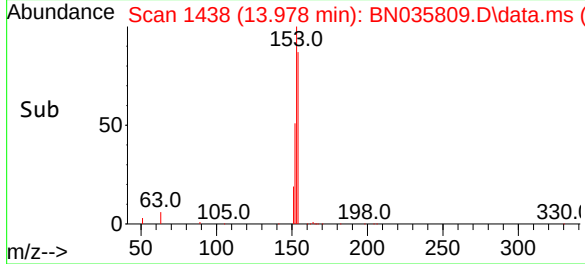
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC



Tgt Ion:154 Resp: 13250  
Ion Ratio Lower Upper  
154 100  
153 115.4 92.6 139.0  
152 59.3 49.0 73.6

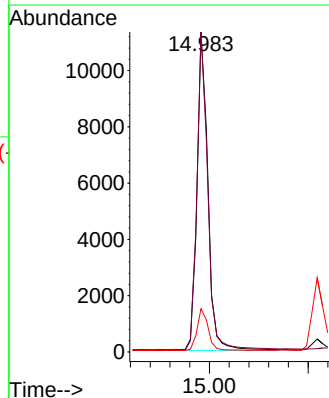
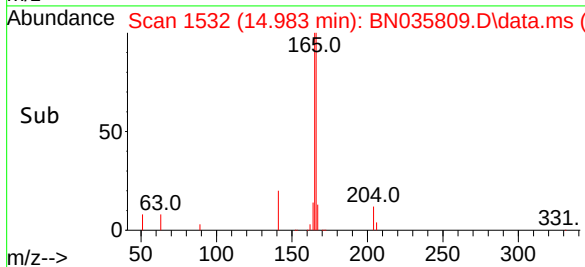
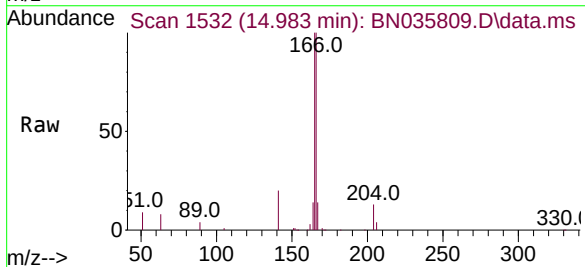
Manual Integrations  
**APPROVED**

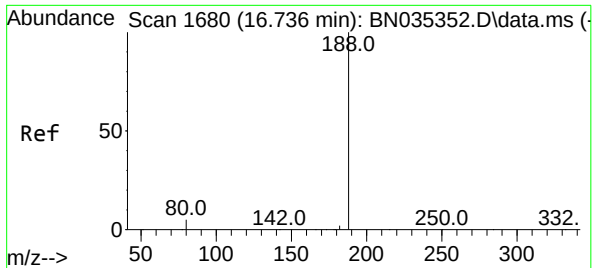
Reviewed By :Yogesh Patel 12/24/2024  
Supervised By :mohammad ahmed 12/26/2024



#18  
Fluorene  
Concen: 0.348 ng  
RT: 14.983 min Scan# 1532  
Delta R.T. -0.021 min  
Lab File: BN035809.D  
Acq: 24 Dec 2024 07:09

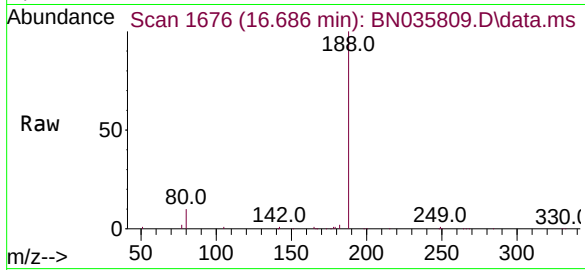
Tgt Ion:166 Resp: 17299  
Ion Ratio Lower Upper  
166 100  
165 98.8 79.7 119.5  
167 13.4 10.8 16.2





#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 16.686 min Scan# 1676  
Delta R.T. -0.012 min  
Lab File: BN035809.D  
Acq: 24 Dec 2024 07:09

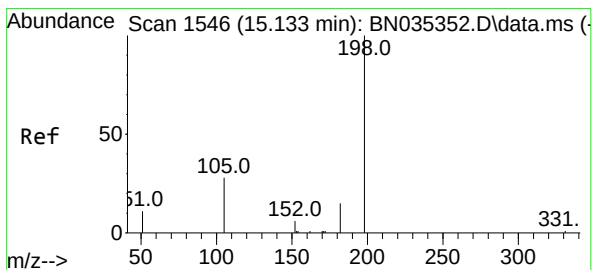
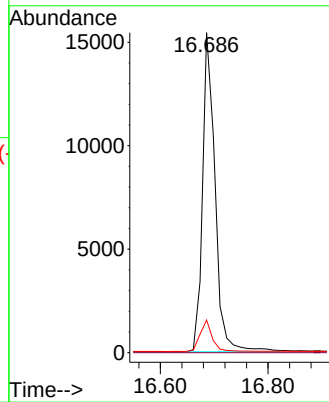
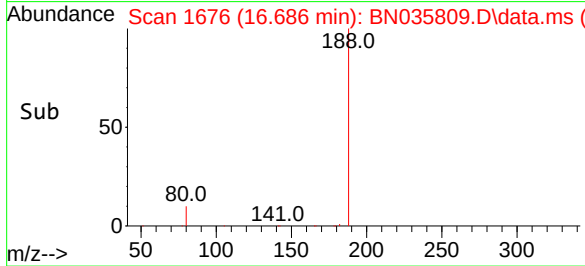
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC



Tgt Ion:188 Resp: 2492  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 10.2 4.6 6.8

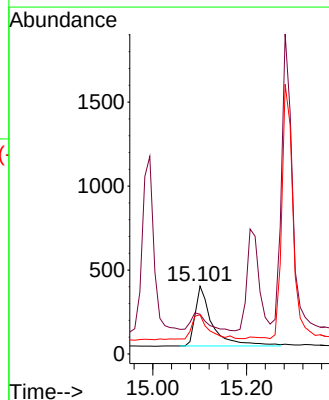
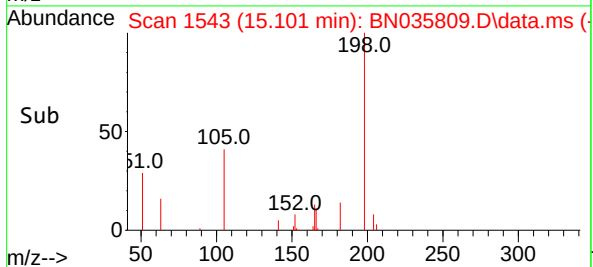
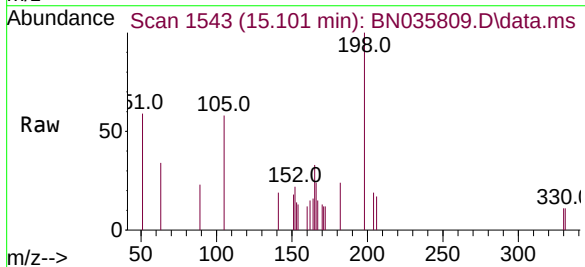
Manual Integrations  
APPROVED

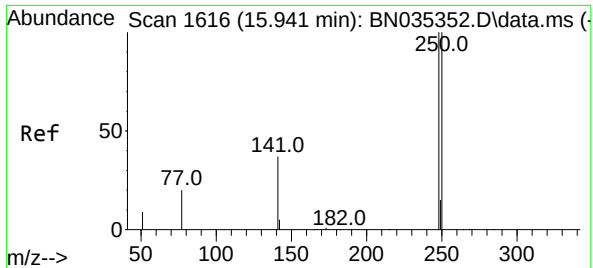
Reviewed By :Yogesh Patel 12/24/2024  
Supervised By :mohammad ahmed 12/26/2024



#20  
4,6-Dinitro-2-methylphenol  
Concen: 0.364 ng  
RT: 15.101 min Scan# 1543  
Delta R.T. -0.021 min  
Lab File: BN035809.D  
Acq: 24 Dec 2024 07:09

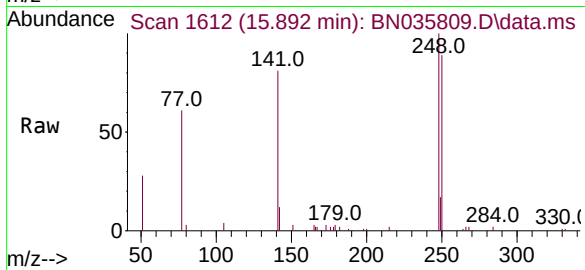
Tgt Ion:198 Resp: 892  
Ion Ratio Lower Upper  
198 100  
51 58.7 46.5 69.7  
105 57.9 45.3 67.9





#21  
4-Bromophenyl-phenylether  
Concen: 0.392 ng  
RT: 15.892 min Scan# 1612  
Delta R.T. -0.025 min  
Lab File: BN035809.D  
Acq: 24 Dec 2024 07:09

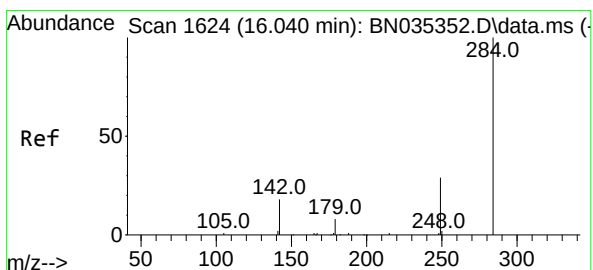
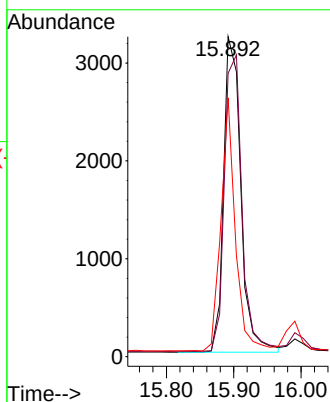
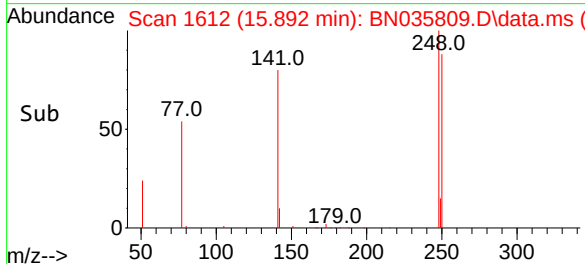
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC



Tgt Ion:248 Resp: 571  
Ion Ratio Lower Upper  
248 100  
250 88.5 80.6 120.8  
141 80.9 31.5 47.3

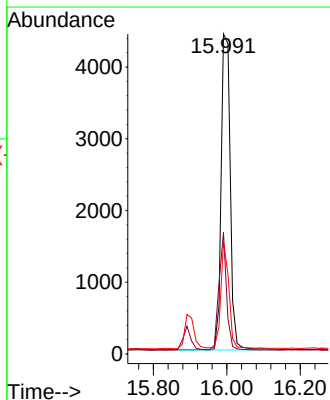
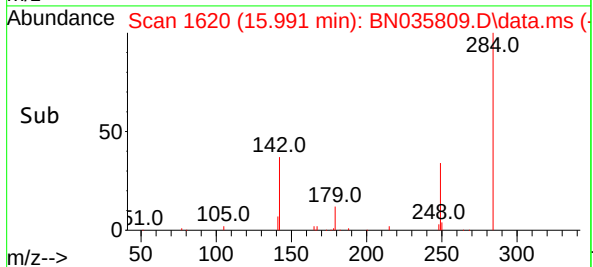
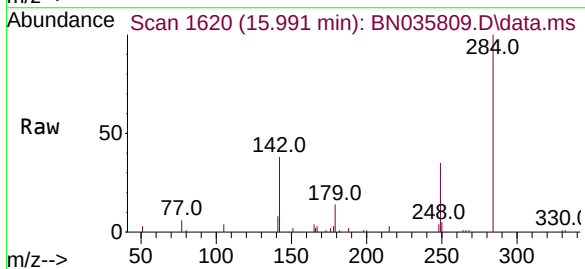
Manual Integrations  
APPROVED

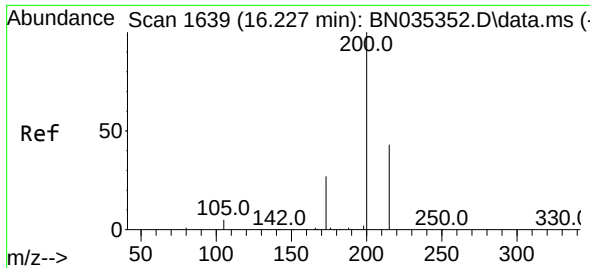
Reviewed By :Yogesh Patel 12/24/2024  
Supervised By :mohammad ahmed 12/26/2024



#22  
Hexachlorobenzene  
Concen: 0.446 ng  
RT: 15.991 min Scan# 1620  
Delta R.T. -0.025 min  
Lab File: BN035809.D  
Acq: 24 Dec 2024 07:09

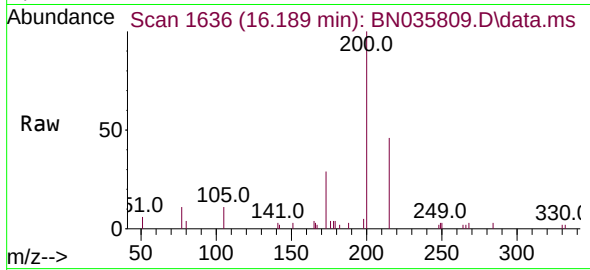
Tgt Ion:284 Resp: 7638  
Ion Ratio Lower Upper  
284 100  
142 31.3 26.7 40.1  
249 29.6 24.6 36.8





#23  
Atrazine  
Concen: 0.381 ng  
RT: 16.189 min Scan# 1636  
Delta R.T. -0.012 min  
Lab File: BN035809.D  
Acq: 24 Dec 2024 07:09

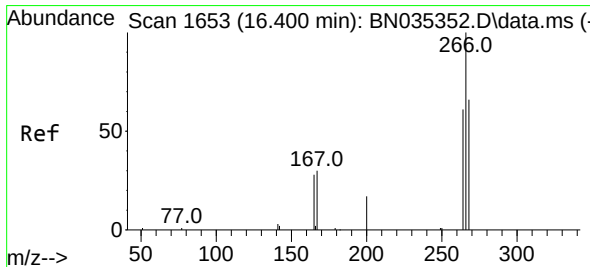
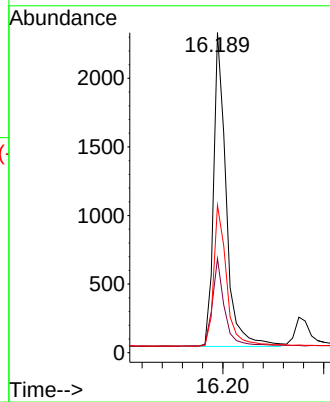
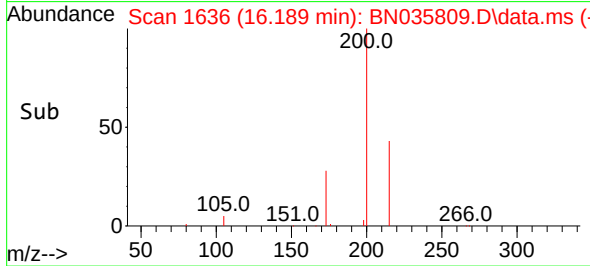
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC



Tgt Ion:200 Resp: 395  
Ion Ratio Lower Upper  
200 100  
173 29.4 24.1 36.1  
215 46.0 36.9 55.3

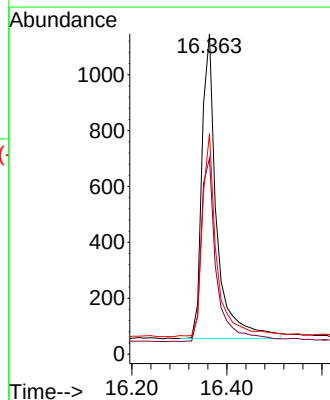
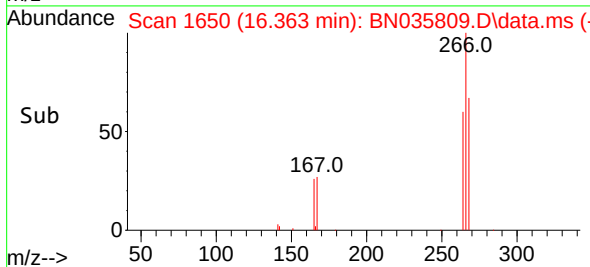
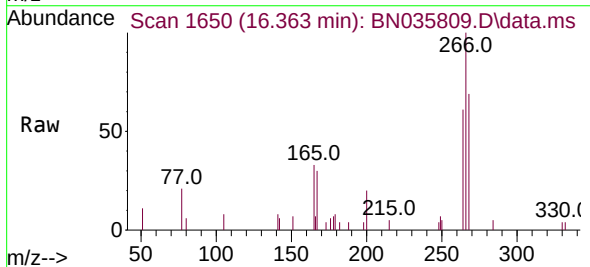
Manual Integrations  
APPROVED

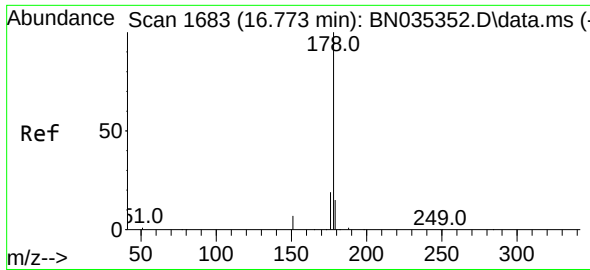
Reviewed By :Yogesh Patel 12/24/2024  
Supervised By :mohammad ahmed 12/26/2024



#24  
Pentachlorophenol  
Concen: 0.318 ng  
RT: 16.363 min Scan# 1650  
Delta R.T. -0.012 min  
Lab File: BN035809.D  
Acq: 24 Dec 2024 07:09

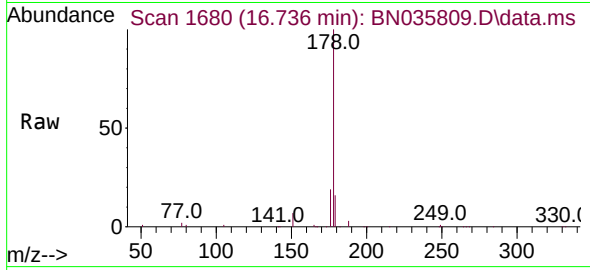
Tgt Ion:266 Resp: 2368  
Ion Ratio Lower Upper  
266 100  
264 62.2 42.3 63.5  
268 65.5 43.3 64.9#





#25  
Phenanthrene  
Concen: 0.377 ng  
RT: 16.736 min Scan# 1683  
Delta R.T. -0.012 min  
Lab File: BN035809.D  
Acq: 24 Dec 2024 07:09

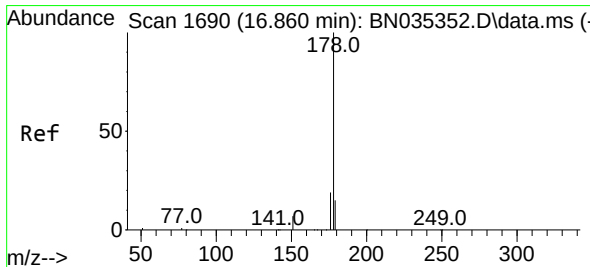
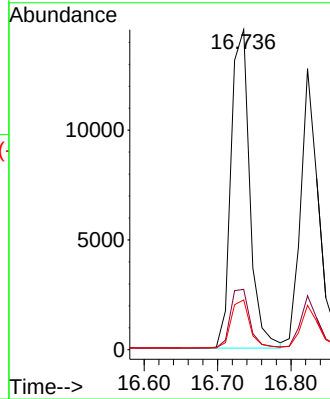
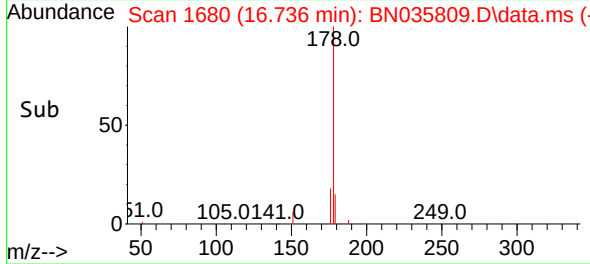
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC



Tgt Ion:178 Resp: 2578  
Ion Ratio Lower Upper  
178 100  
176 19.2 15.4 23.2  
179 15.2 12.3 18.5

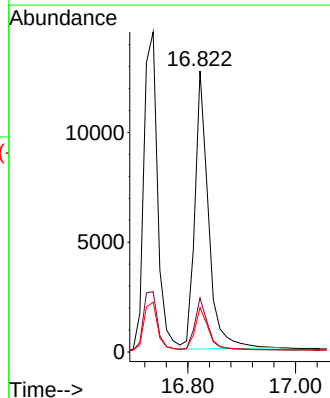
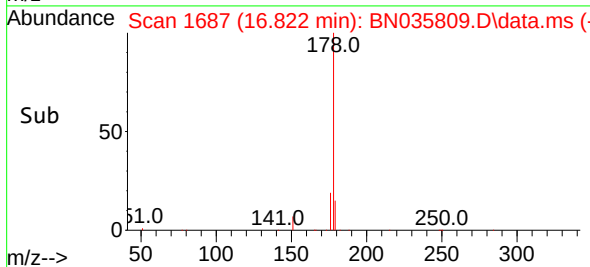
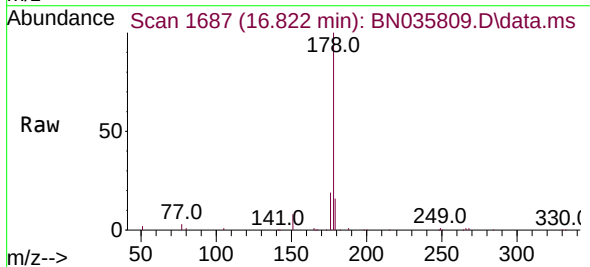
Manual Integrations  
**APPROVED**

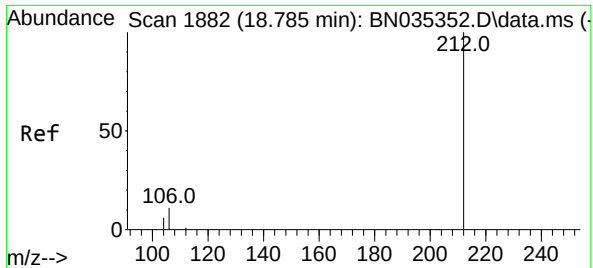
Reviewed By :Yogesh Patel 12/24/2024  
Supervised By :mohammad ahmed 12/26/2024



#26  
Anthracene  
Concen: 0.360 ng  
RT: 16.822 min Scan# 1687  
Delta R.T. -0.012 min  
Lab File: BN035809.D  
Acq: 24 Dec 2024 07:09

Tgt Ion:178 Resp: 22279  
Ion Ratio Lower Upper  
178 100  
176 18.5 15.0 22.6  
179 15.4 12.6 18.8





#27

Fluoranthene-d10

Concen: 0.334 ng

RT: 18.747 min Scan# 1874

Delta R.T. -0.014 min

Lab File: BN035809.D

Acq: 24 Dec 2024 07:09

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC

Tgt Ion:212 Resp: 23600

Ion Ratio Lower Upper

212 100

106 11.5 9.2 13.8

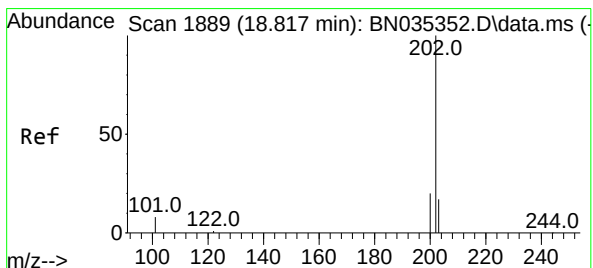
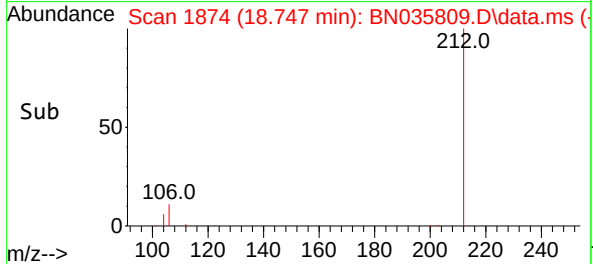
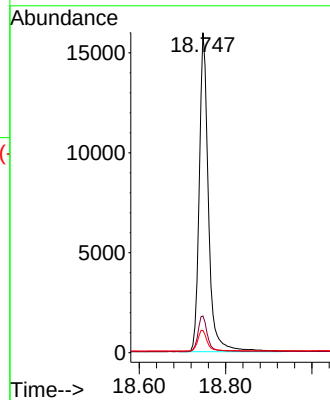
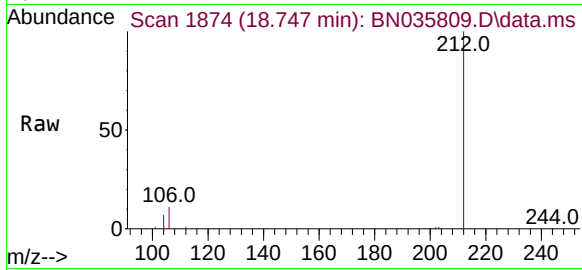
104 6.6 5.3 7.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/24/2024

Supervised By :mohammad ahmed 12/26/2024



#28

Fluoranthene

Concen: 0.337 ng

RT: 18.780 min Scan# 1881

Delta R.T. -0.009 min

Lab File: BN035809.D

Acq: 24 Dec 2024 07:09

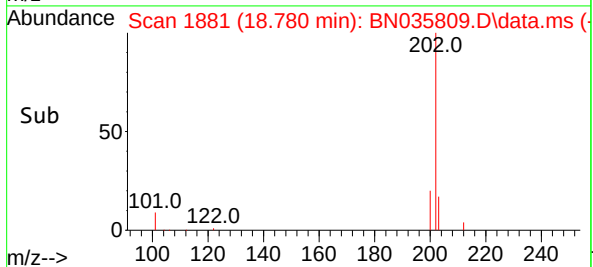
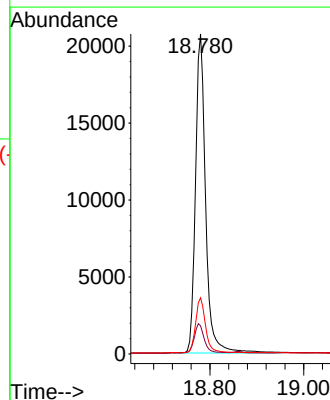
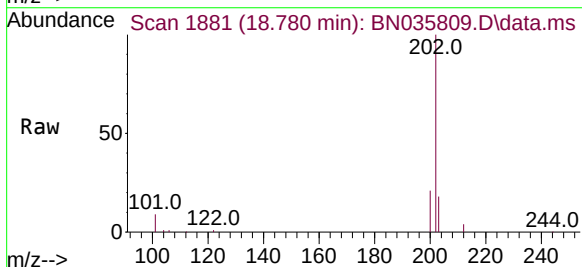
Tgt Ion:202 Resp: 31096

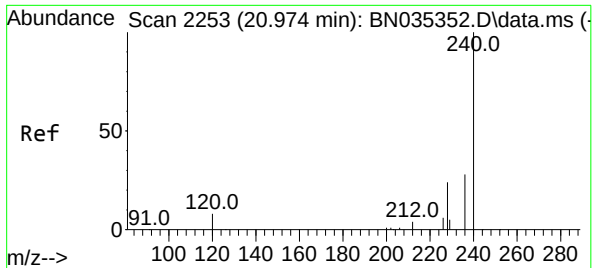
Ion Ratio Lower Upper

202 100

101 9.3 7.4 11.0

203 16.9 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.947 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035809.D

Acq: 24 Dec 2024 07:09

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC

Tgt Ion:240 Resp: 20198

Ion Ratio Lower Upper

240 100

120 8.0 7.9 11.9

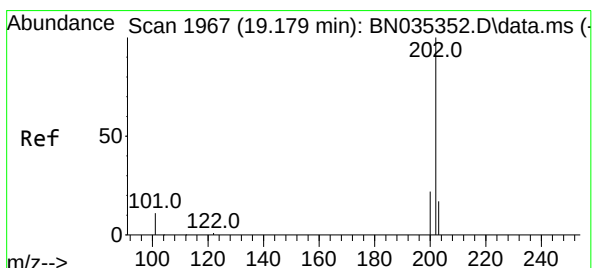
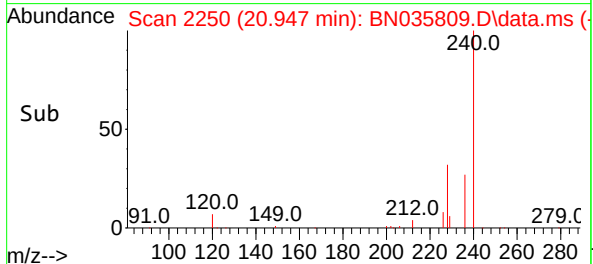
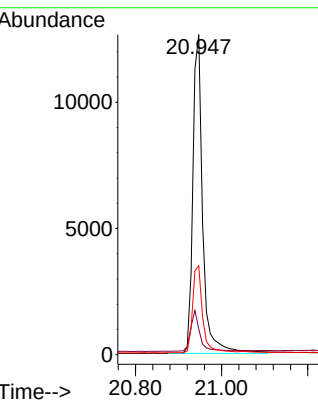
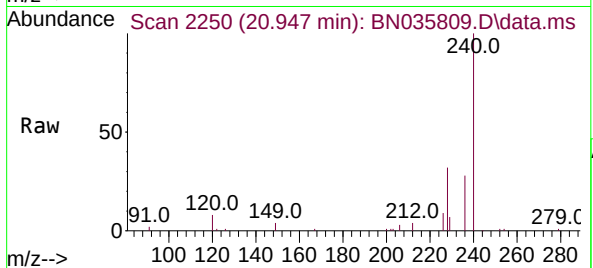
236 27.8 22.9 34.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/24/2024

Supervised By :mohammad ahmed 12/26/2024



#30

Pyrene

Concen: 0.432 ng

RT: 19.147 min Scan# 1960

Delta R.T. -0.014 min

Lab File: BN035809.D

Acq: 24 Dec 2024 07:09

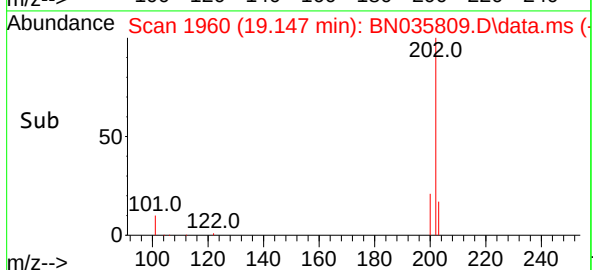
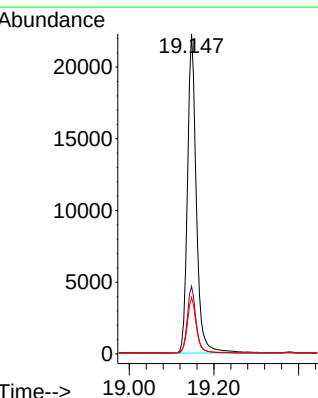
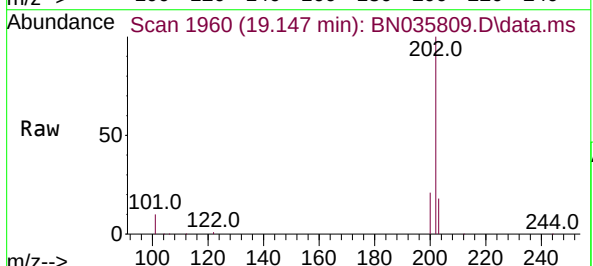
Tgt Ion:202 Resp: 32211

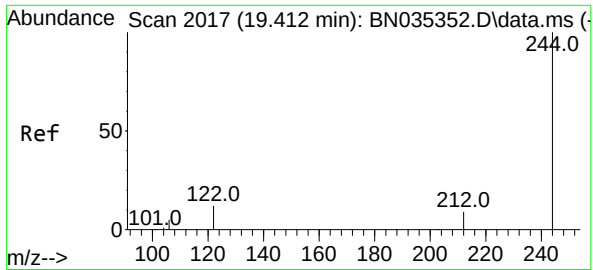
Ion Ratio Lower Upper

202 100

200 21.0 17.0 25.4

203 17.8 14.3 21.5





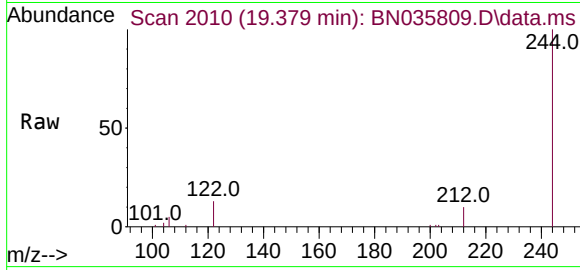
#31  
 Terphenyl-d14  
 Concen: 0.414 ng  
 RT: 19.379 min Scan# 2017  
 Delta R.T. -0.009 min  
 Lab File: BN035809.D  
 Acq: 24 Dec 2024 07:09

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC

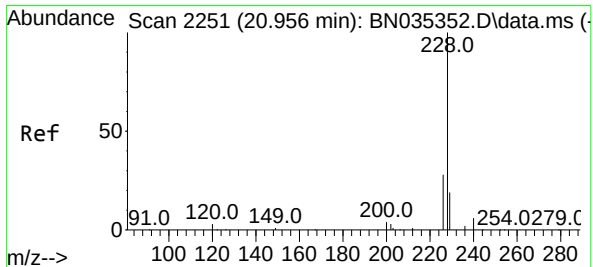
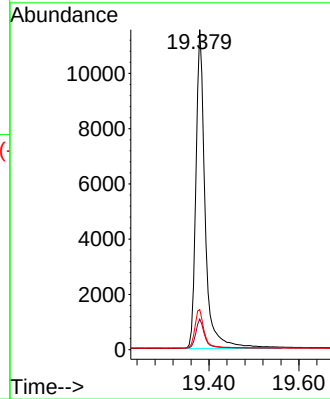
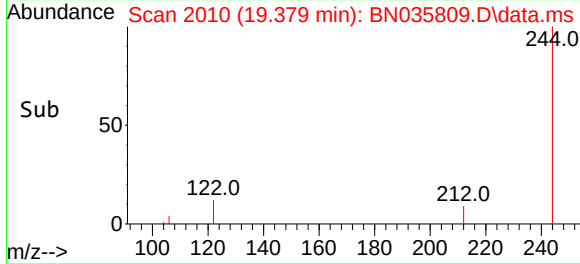


Tgt Ion:244 Resp: 1650  
 Ion Ratio Lower Upper  
 244 100  
 212 9.5 8.1 12.1  
 122 12.5 10.3 15.5

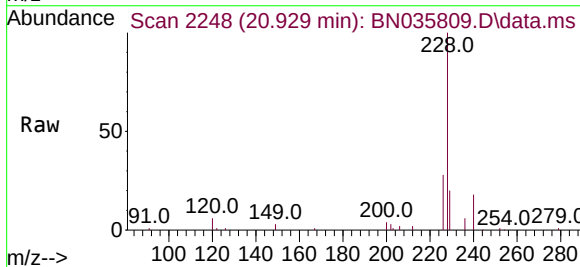
Manual Integrations

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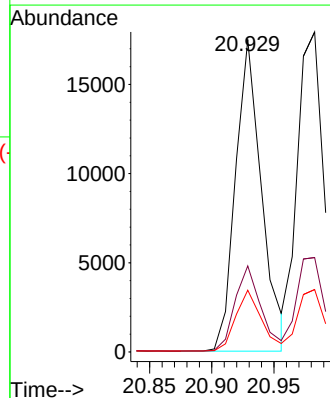
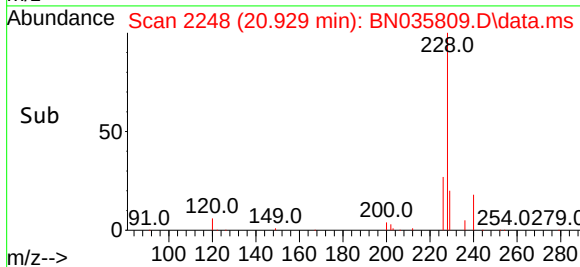
Reviewed By :Yogesh Patel 12/24/2024  
 Supervised By :mohammad ahmed 12/26/2024



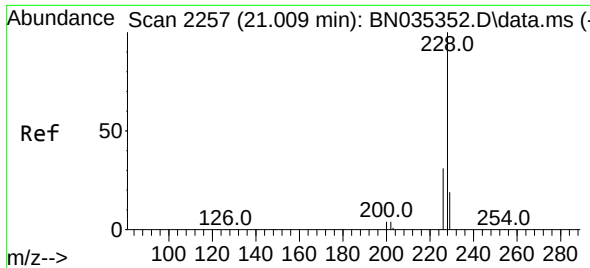
#32  
 Benzo(a)anthracene  
 Concen: 0.360 ng  
 RT: 20.929 min Scan# 2248  
 Delta R.T. -0.009 min  
 Lab File: BN035809.D  
 Acq: 24 Dec 2024 07:09



Tgt Ion:228 Resp: 25428  
 Ion Ratio Lower Upper  
 228 100  
 226 27.5 22.5 33.7  
 229 19.8 15.8 23.8

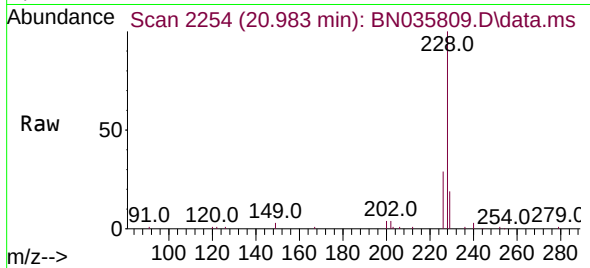






#33  
Chrysene  
Concen: 0.408 ng  
RT: 20.983 min Scan# 2100  
Delta R.T. -0.009 min  
Lab File: BN035809.D  
Acq: 24 Dec 2024 07:09

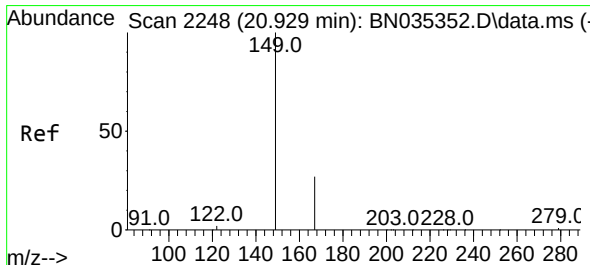
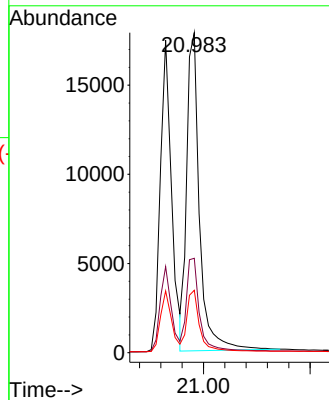
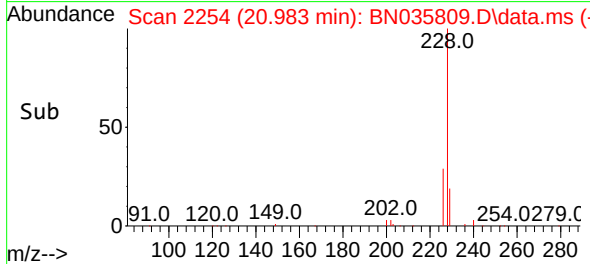
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC



Tgt Ion:228 Resp: 2972  
Ion Ratio Lower Upper  
228 100  
226 29.5 24.6 37.0  
229 19.5 15.9 23.9

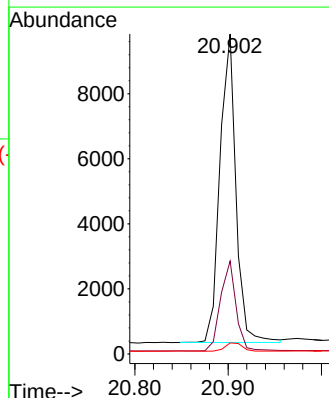
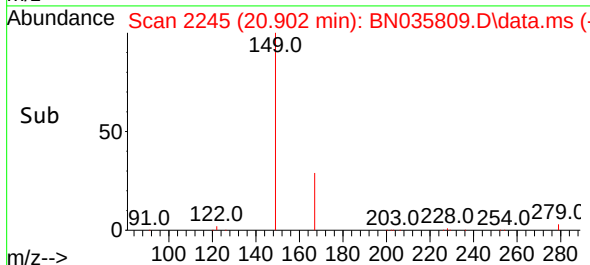
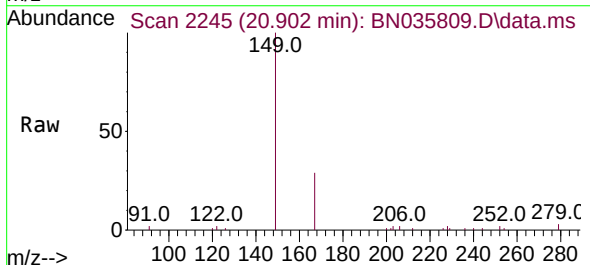
Manual Integrations  
**APPROVED**

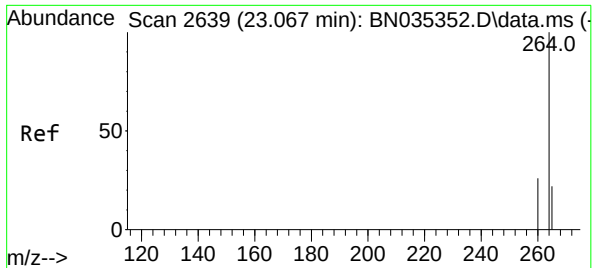
Reviewed By :Yogesh Patel 12/24/2024  
Supervised By :mohammad ahmed 12/26/2024



#34  
Bis(2-ethylhexyl)phthalate  
Concen: 0.402 ng  
RT: 20.902 min Scan# 2245  
Delta R.T. -0.009 min  
Lab File: BN035809.D  
Acq: 24 Dec 2024 07:09

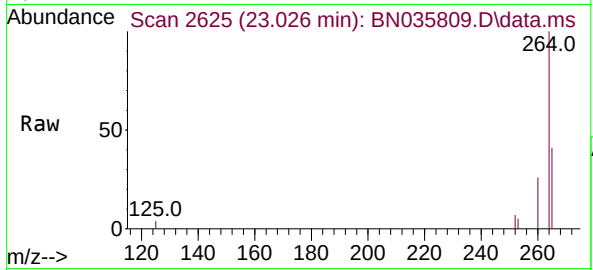
Tgt Ion:149 Resp: 11220  
Ion Ratio Lower Upper  
149 100  
167 28.4 22.2 33.4  
279 2.9 2.7 4.1





#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.026 min Scan# 2143  
Delta R.T. -0.015 min  
Lab File: BN035809.D  
Acq: 24 Dec 2024 07:09

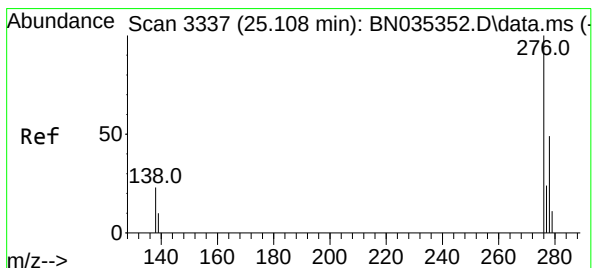
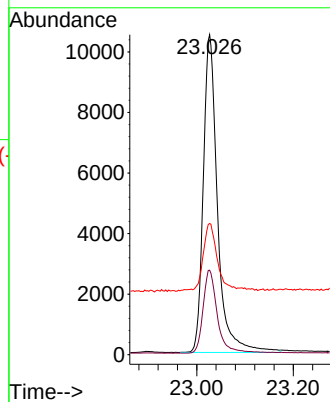
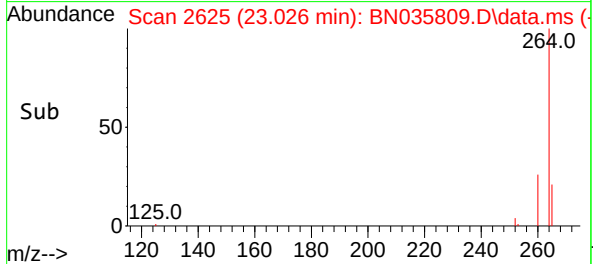
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC



Tgt Ion:264 Resp: 2143  
Ion Ratio Lower Upper  
264 100  
260 26.4 21.4 32.2  
265 41.0 40.2 60.4

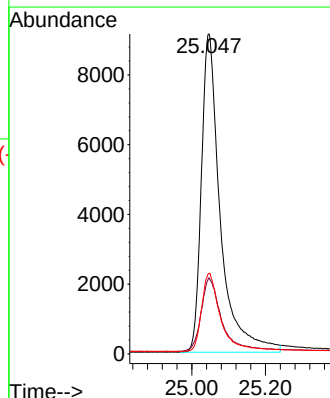
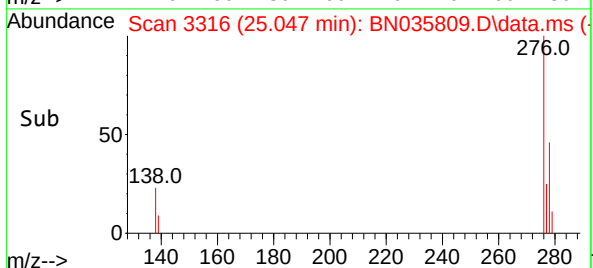
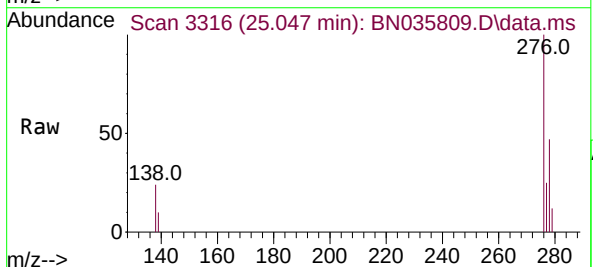
Manual Integrations  
**APPROVED**

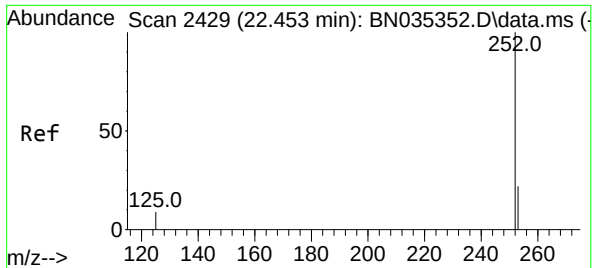
Reviewed By :Yogesh Patel 12/24/2024  
Supervised By :mohammad ahmed 12/26/2024



#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.389 ng  
RT: 25.047 min Scan# 3316  
Delta R.T. -0.021 min  
Lab File: BN035809.D  
Acq: 24 Dec 2024 07:09

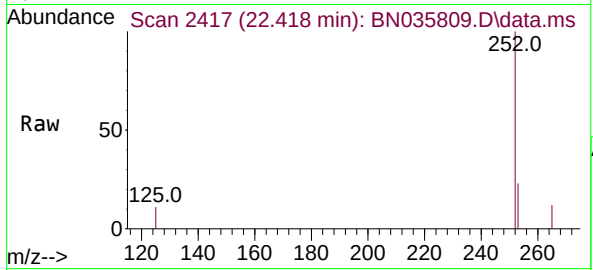
Tgt Ion:276 Resp: 32558  
Ion Ratio Lower Upper  
276 100  
138 24.5 19.4 29.0  
277 24.7 19.8 29.6





#37  
Benzo(b)fluoranthene  
Concen: 0.559 ng  
RT: 22.418 min Scan# 2417  
Delta R.T. -0.012 min  
Lab File: BN035809.D  
Acq: 24 Dec 2024 07:09

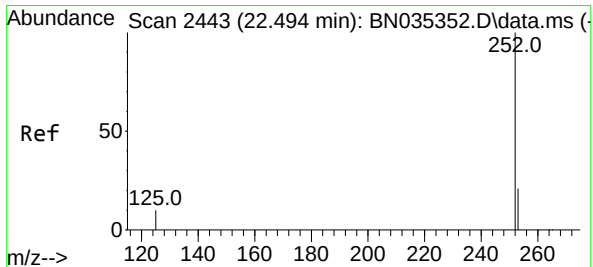
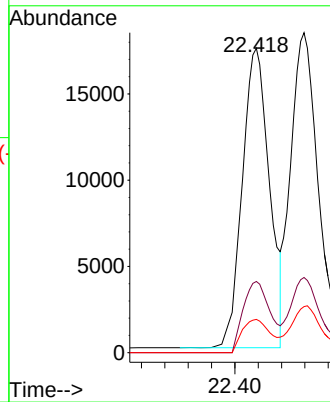
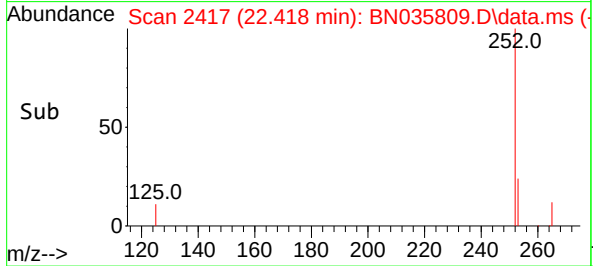
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC



Tgt Ion:252 Resp: 43862  
Ion Ratio Lower Upper  
252 100  
253 23.4 19.6 29.4  
125 10.9 9.6 14.4

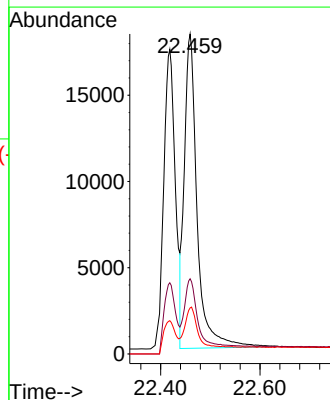
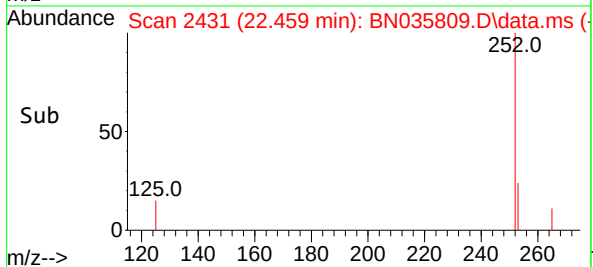
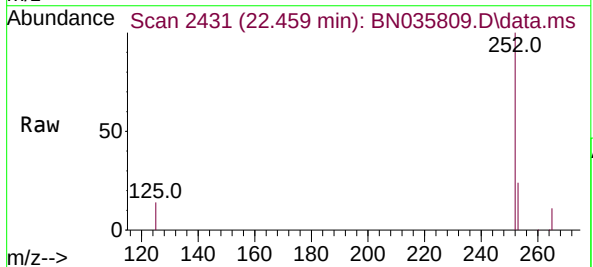
Manual Integrations  
**APPROVED**

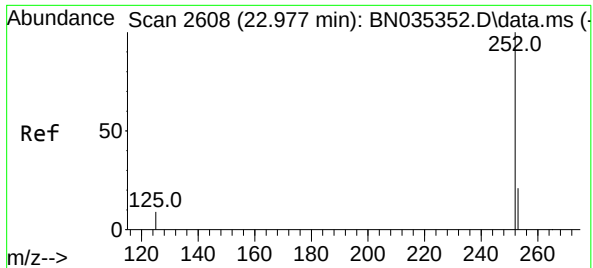
Reviewed By :Yogesh Patel 12/24/2024  
Supervised By :mohammad ahmed 12/26/2024



#38  
Benzo(k)fluoranthene  
Concen: 0.426 ng  
RT: 22.459 min Scan# 2431  
Delta R.T. -0.012 min  
Lab File: BN035809.D  
Acq: 24 Dec 2024 07:09

Tgt Ion:252 Resp: 32848  
Ion Ratio Lower Upper  
252 100  
253 23.5 19.5 29.3  
125 14.4 10.2 15.4





#39

Benzo(a)pyrene

Concen: 0.371 ng

RT: 22.939 min Scan# 21

Delta R.T. -0.012 min

Lab File: BN035809.D

Acq: 24 Dec 2024 07:09

Instrument :

BNA\_N

ClientSampleId :

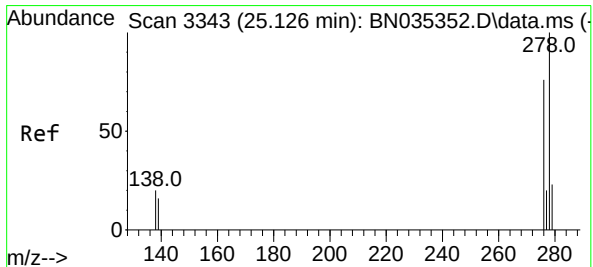
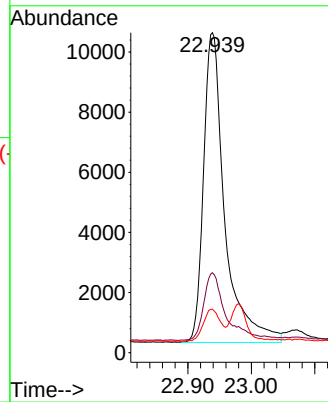
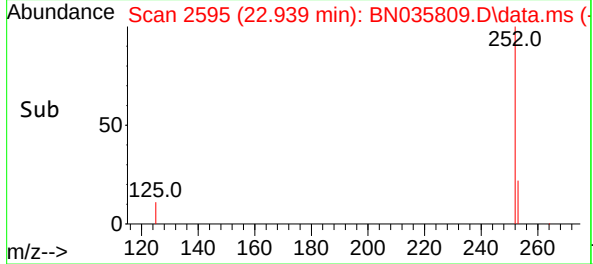
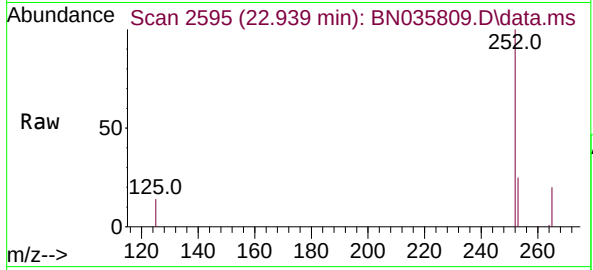
SSTDCCC0.4EC

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 252   | Resp: | 2395 |
| Ion Ratio | Lower | Upper |      |
| 252       | 100   |       |      |
| 253       | 25.0  | 20.2  | 30.4 |
| 125       | 13.6  | 10.9  | 16.3 |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/24/2024  
Supervised By :mohammad ahmed 12/26/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.364 ng

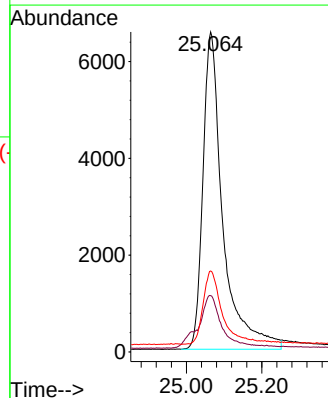
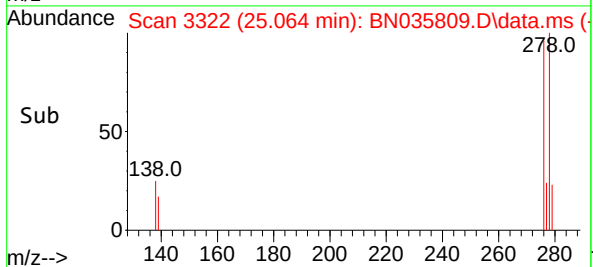
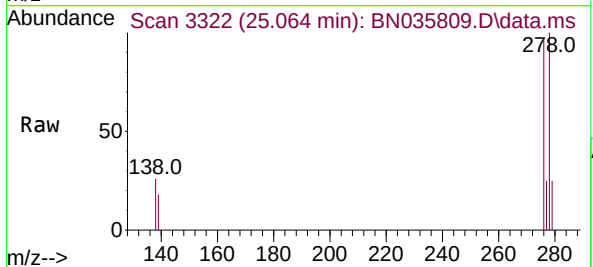
RT: 25.064 min Scan# 3322

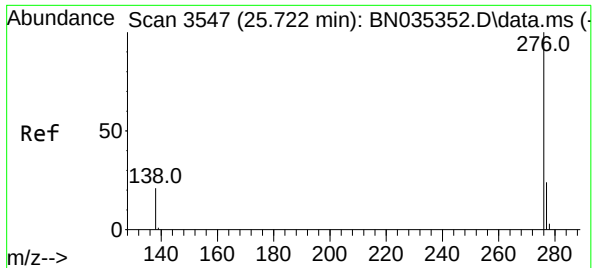
Delta R.T. -0.018 min

Lab File: BN035809.D

Acq: 24 Dec 2024 07:09

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 278   | Resp: | 24090 |
| Ion Ratio | Lower | Upper |       |
| 278       | 100   |       |       |
| 139       | 17.6  | 14.2  | 21.4  |
| 279       | 25.3  | 20.5  | 30.7  |





#41

Benzo(g,h,i)perylene

Concen: 0.410 ng

RT: 25.658 min Scan# 31

Delta R.T. -0.021 min

Lab File: BN035809.D

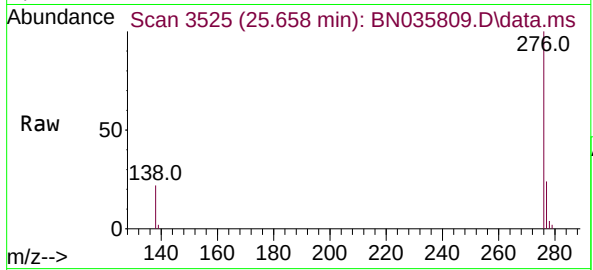
Acq: 24 Dec 2024 07:09

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC



Tgt Ion:276 Resp: 2835

Ion Ratio Lower Upper

276 100

277 24.1 19.9 29.9

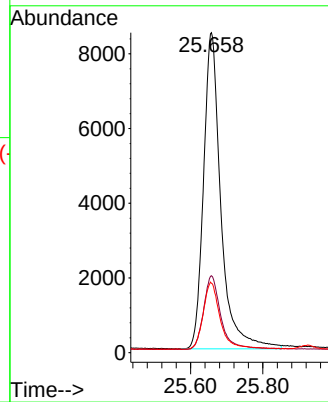
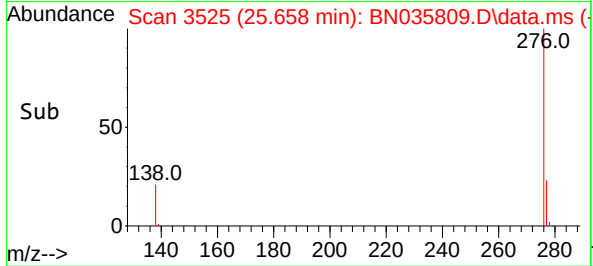
138 21.7 17.8 26.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/24/2024

Supervised By :mohammad ahmed 12/26/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN122324\  
 Data File : BN035809.D  
 Acq On : 24 Dec 2024 07:09  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 93 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 LabSampleId :  
 SSTDCCC0.4

Quant Time: Dec 24 07:43:23 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Dec 19 23:06:19 2024  
 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    | 408#  | -0.01    |
| 2       | 1,4-Dioxane                | 0.382 | 0.382 | 0.0    | 415#  | 0.00     |
| 3       | n-Nitrosodimethylamine     | 0.319 | 0.320 | -0.3   | 400#  | -0.01    |
| 4 S     | 2-Fluorophenol             | 1.001 | 0.946 | 5.5    | 379#  | -0.01    |
| 5 S     | Phenol-d6                  | 1.204 | 1.086 | 9.8    | 372#  | -0.02    |
| 6       | bis(2-Chloroethyl)ether    | 1.012 | 0.940 | 7.1    | 387#  | -0.01    |
| 7 I     | Naphthalene-d8             | 1.000 | 1.000 | 0.0    | 397#  | -0.02    |
| 8 S     | Nitrobenzene-d5            | 0.244 | 0.307 | -25.8# | 519#  | -0.01    |
| 9       | Naphthalene                | 1.055 | 1.015 | 3.8    | 385#  | -0.01    |
| 10      | Hexachlorobutadiene        | 0.243 | 0.261 | -7.4   | 420#  | -0.02    |
| 11 SURR | 2-Methylnaphthalene-d10    | 0.626 | 0.563 | 10.1   | 361#  | -0.02    |
| 12      | 2-Methylnaphthalene        | 0.755 | 0.665 | 11.9   | 357#  | -0.02    |
| 13 I    | Acenaphthene-d10           | 1.000 | 1.000 | 0.0    | 328#  | -0.02    |
| 14 S    | 2,4,6-Tribromophenol       | 0.284 | 0.224 | 21.1   | 286#  | -0.01    |
| 15 S    | 2-Fluorobiphenyl           | 1.512 | 1.535 | -1.5   | 333#  | -0.02    |
| 16      | Acenaphthylene             | 1.680 | 1.561 | 7.1    | 321#  | -0.02    |
| 17      | Acenaphthene               | 1.115 | 1.064 | 4.6    | 321#  | -0.02    |
| 18      | Fluorene                   | 1.596 | 1.389 | 13.0   | 295#  | -0.02    |
| 19 I    | Phenanthrene-d10           | 1.000 | 1.000 | 0.0    | 263#  | -0.01    |
| 20      | 4,6-Dinitro-2-methylphenol | 0.039 | 0.036 | 7.7    | 265#  | -0.02    |
| 21      | 4-Bromophenyl-phenylether  | 0.234 | 0.229 | 2.1    | 266#  | -0.02    |
| 22      | Hexachlorobenzene          | 0.275 | 0.306 | -11.3  | 295#  | -0.02    |
| 23      | Atrazine                   | 0.167 | 0.159 | 4.8    | 271#  | -0.01    |
| 24      | Pentachlorophenol          | 0.120 | 0.095 | 20.8   | 261#  | -0.01    |
| 25      | Phenanthrene               | 1.099 | 1.035 | 5.8    | 255#  | -0.01    |
| 26      | Anthracene                 | 0.994 | 0.894 | 10.1   | 250#  | -0.01    |
| 27 SURR | Fluoranthene-d10           | 1.134 | 0.947 | 16.5   | 231#  | -0.01    |
| 28      | Fluoranthene               | 1.481 | 1.248 | 15.7   | 231#  | 0.00     |
| 29 I    | Chrysene-d12               | 1.000 | 1.000 | 0.0    | 212#  | 0.00     |
| 30      | Pyrene                     | 1.477 | 1.595 | -8.0   | 229#  | -0.01    |
| 31 S    | Terphenyl-d14              | 0.789 | 0.817 | -3.5   | 219#  | 0.00     |
| 32      | Benzo(a)anthracene         | 1.399 | 1.259 | 10.0   | 197#  | 0.00     |
| 33      | Chrysene                   | 1.443 | 1.472 | -2.0   | 216#  | 0.00     |
| 34      | Bis(2-ethylhexyl)phthalate | 0.553 | 0.556 | -0.5   | 228#  | 0.00     |
| 35 I    | Perylene-d12               | 1.000 | 1.000 | 0.0    | 198#  | -0.01    |
| 36      | Indeno(1,2,3-cd)pyrene     | 1.564 | 1.519 | 2.9    | 196#  | -0.02    |
| 37      | Benzo(b)fluoranthene       | 1.463 | 2.047 | -39.9# | 308#  | -0.01    |
| 38      | Benzo(k)fluoranthene       | 1.440 | 1.533 | -6.5   | 216#  | -0.01    |
| 39 C    | Benzo(a)pyrene             | 1.205 | 1.118 | 7.2    | 193#  | -0.01    |
| 40      | Dibenzo(a,h)anthracene     | 1.234 | 1.124 | 8.9    | 186#  | -0.02    |
| 41      | Benzo(g,h,i)perylene       | 1.289 | 1.323 | -2.6   | 210#  | -0.02    |

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN122324\  
 Data File : BN035809.D  
 Acq On : 24 Dec 2024 07:09  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 93 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 LabSampleId :  
 SSTDCCC0.4

Quant Time: Dec 24 07:43:23 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Dec 19 23:06:19 2024  
 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    | 408   | -0.01    |
| 2       | 1,4-Dioxane                | 0.400  | 0.400 | 0.0    | 415   | 0.00     |
| 3       | n-Nitrosodimethylamine     | 0.400  | 0.401 | -0.3   | 400   | -0.01    |
| 4 S     | 2-Fluorophenol             | 0.400  | 0.378 | 5.5    | 379   | -0.01    |
| 5 S     | Phenol-d6                  | 0.400  | 0.361 | 9.8    | 372   | -0.02    |
| 6       | bis(2-Chloroethyl)ether    | 0.400  | 0.372 | 7.0    | 387   | -0.01    |
| 7 I     | Naphthalene-d8             | 0.400  | 0.400 | 0.0    | 397   | -0.02    |
| 8 S     | Nitrobenzene-d5            | 0.400  | 0.503 | -25.7# | 519   | -0.01    |
| 9       | Naphthalene                | 0.400  | 0.385 | 3.8    | 385   | -0.01    |
| 10      | Hexachlorobutadiene        | 0.400  | 0.430 | -7.5   | 420   | -0.02    |
| 11 SURR | 2-Methylnaphthalene-d10    | 0.400  | 0.360 | 10.0   | 361   | -0.02    |
| 12      | 2-Methylnaphthalene        | 0.400  | 0.352 | 12.0   | 357   | -0.02    |
| 13 I    | Acenaphthene-d10           | 0.400  | 0.400 | 0.0    | 328   | -0.02    |
| 14 S    | 2,4,6-Tribromophenol       | 0.400  | 0.316 | 21.0   | 286   | -0.01    |
| 15 S    | 2-Fluorobiphenyl           | 0.400  | 0.406 | -1.5   | 333   | -0.02    |
| 16      | Acenaphthylene             | 0.400  | 0.372 | 7.0    | 321   | -0.02    |
| 17      | Acenaphthene               | 0.400  | 0.382 | 4.5    | 321   | -0.02    |
| 18      | Fluorene                   | 0.400  | 0.348 | 13.0   | 295   | -0.02    |
| 19 I    | Phenanthrene-d10           | 0.400  | 0.400 | 0.0    | 263   | -0.01    |
| 20      | 4,6-Dinitro-2-methylphenol | 0.400  | 0.364 | 9.0    | 265   | -0.02    |
| 21      | 4-Bromophenyl-phenylether  | 0.400  | 0.392 | 2.0    | 266   | -0.02    |
| 22      | Hexachlorobenzene          | 0.400  | 0.446 | -11.5  | 295   | -0.02    |
| 23      | Atrazine                   | 0.400  | 0.381 | 4.8    | 271   | -0.01    |
| 24      | Pentachlorophenol          | 0.400  | 0.318 | 20.5   | 261   | -0.01    |
| 25      | Phenanthrene               | 0.400  | 0.377 | 5.8    | 255   | -0.01    |
| 26      | Anthracene                 | 0.400  | 0.360 | 10.0   | 250   | -0.01    |
| 27 SURR | Fluoranthene-d10           | 0.400  | 0.334 | 16.5   | 231   | -0.01    |
| 28      | Fluoranthene               | 0.400  | 0.337 | 15.8   | 231   | 0.00     |
| 29 I    | Chrysene-d12               | 0.400  | 0.400 | 0.0    | 212   | 0.00     |
| 30      | Pyrene                     | 0.400  | 0.432 | -8.0   | 229   | -0.01    |
| 31 S    | Terphenyl-d14              | 0.400  | 0.414 | -3.5   | 219   | 0.00     |
| 32      | Benzo(a)anthracene         | 0.400  | 0.360 | 10.0   | 197   | 0.00     |
| 33      | Chrysene                   | 0.400  | 0.408 | -2.0   | 216   | 0.00     |
| 34      | Bis(2-ethylhexyl)phthalate | 0.400  | 0.402 | -0.5   | 228   | 0.00     |
| 35 I    | Perylene-d12               | 0.400  | 0.400 | 0.0    | 198   | -0.01    |
| 36      | Indeno(1,2,3-cd)pyrene     | 0.400  | 0.389 | 2.8    | 196   | -0.02    |
| 37      | Benzo(b)fluoranthene       | 0.400  | 0.559 | -39.8# | 308   | -0.01    |
| 38      | Benzo(k)fluoranthene       | 0.400  | 0.426 | -6.5   | 216   | -0.01    |
| 39 C    | Benzo(a)pyrene             | 0.400  | 0.371 | 7.3    | 193   | -0.01    |
| 40      | Dibenzo(a,h)anthracene     | 0.400  | 0.364 | 9.0    | 186   | -0.02    |
| 41      | Benzo(g,h,i)perylene       | 0.400  | 0.410 | -2.5   | 210   | -0.02    |

(#) = Out of Range

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



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

7C

## SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P5284 SAS No.: P5284 SDG No.: P5284

Instrument ID: BNA\_N Calibration Date/Time: 12/26/2024 09:58

Lab File ID: BN035845.D Init. Calib. Date(s): 11/27/2024 11/27/2024

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 15:34 19:09

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

| COMPOUND                | RRF   | RRF0.4 | MIN<br>RRF | %D    | MAX%D |
|-------------------------|-------|--------|------------|-------|-------|
| 2-Methylnaphthalene-d10 | 0.626 | 0.545  |            | -12.9 | 20.0  |
| Fluoranthene-d10        | 1.134 | 0.991  |            | -12.6 | 20.0  |
| 2-Fluorophenol          | 1.001 | 1.006  |            | 0.5   | 20.0  |
| Phenol-d6               | 1.204 | 1.112  |            | -7.6  | 20.0  |
| Nitrobenzene-d5         | 0.244 | 0.298  |            | 22.1  | 20.0  |
| 2-Fluorobiphenyl        | 1.512 | 1.504  |            | -0.5  | 20.0  |
| 2,4,6-Tribromophenol    | 0.284 | 0.248  |            | -12.7 | 20.0  |
| Terphenyl-d14           | 0.789 | 0.784  |            | -0.6  | 20.0  |
| 1,4-Dioxane             | 0.382 | 0.405  |            | 6.0   | 20.0  |

All other compounds must meet a minimum RRF of 0.010.



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN122624\  
 Data File : BN035845.D  
 Acq On : 26 Dec 2024 09:58  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 12/27/2024  
 Supervised By :mohammad ahmed 12/27/2024

Quant Time: Dec 27 00:40:11 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Dec 19 23:06:19 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.257  | 152  | 3755     | 0.400 | ng    | -0.01    |
| 7) Naphthalene-d8             | 9.999  | 136  | 9322     | 0.400 | ng    | #-0.02   |
| 13) Acenaphthene-d10          | 13.914 | 164  | 5387     | 0.400 | ng    | -0.02    |
| 19) Phenanthrene-d10          | 16.686 | 188  | 11262    | 0.400 | ng    | #-0.01   |
| 29) Chrysene-d12              | 20.938 | 240  | 9932     | 0.400 | ng    | #-0.02   |
| 35) Perylene-d12              | 23.021 | 264  | 10817    | 0.400 | ng    | #-0.02   |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 4.924  | 112  | 3777     | 0.402 | ng    | -0.01    |
| 5) Phenol-d6                  | 6.470  | 99   | 4175     | 0.369 | ng    | -0.02    |
| 8) Nitrobenzene-d5            | 8.397  | 82   | 2776m    | 0.488 | ng    | -0.01    |
| 11) 2-Methylnaphthalene-d10   | 11.600 | 152  | 5080     | 0.348 | ng    | -0.02    |
| 14) 2,4,6-Tribromophenol      | 15.432 | 330  | 1338     | 0.350 | ng    | -0.02    |
| 15) 2-Fluorobiphenyl          | 12.523 | 172  | 8104     | 0.398 | ng    | -0.02    |
| 27) Fluoranthene-d10          | 18.743 | 212  | 11161    | 0.350 | ng    | -0.02    |
| 31) Terphenyl-d14             | 19.375 | 244  | 7783     | 0.397 | ng    | -0.01    |
| Target Compounds              |        |      |          |       |       |          |
|                               |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 2.982  | 88   | 1520     | 0.423 | ng    | 97       |
| 3) n-Nitrosodimethylamine     | 3.270  | 42   | 1223     | 0.409 | ng    | # 82     |
| 6) bis(2-Chloroethyl)ether    | 6.708  | 93   | 3599     | 0.379 | ng    | 99       |
| 9) Naphthalene                | 10.041 | 128  | 9440     | 0.384 | ng    | 100      |
| 10) Hexachlorobutadiene       | 10.340 | 225  | 2352     | 0.415 | ng    | # 99     |
| 12) 2-Methylnaphthalene       | 11.676 | 142  | 5939     | 0.337 | ng    | 98       |
| 16) Acenaphthylene            | 13.625 | 152  | 8340     | 0.369 | ng    | 100      |
| 17) Acenaphthene              | 13.978 | 154  | 5695     | 0.379 | ng    | 99       |
| 18) Fluorene                  | 14.983 | 166  | 7523     | 0.350 | ng    | 99       |
| 20) 4,6-Dinitro-2-methylph... | 15.100 | 198  | 526      | 0.475 | ng    | # 39     |
| 21) 4-Bromophenyl-phenylether | 15.891 | 248  | 2443     | 0.371 | ng    | # 87     |
| 22) Hexachlorobenzene         | 15.991 | 284  | 3482     | 0.450 | ng    | 95       |
| 23) Atrazine                  | 16.189 | 200  | 1843     | 0.393 | ng    | 97       |
| 24) Pentachlorophenol         | 16.363 | 266  | 1383     | 0.411 | ng    | 87       |
| 25) Phenanthrene              | 16.723 | 178  | 11602    | 0.375 | ng    | 100      |
| 26) Anthracene                | 16.822 | 178  | 10005    | 0.358 | ng    | 100      |
| 28) Fluoranthene              | 18.775 | 202  | 14489    | 0.347 | ng    | 98       |
| 30) Pyrene                    | 19.142 | 202  | 15278    | 0.417 | ng    | 100      |
| 32) Benzo(a)anthracene        | 20.920 | 228  | 12798    | 0.368 | ng    | 100      |
| 33) Chrysene                  | 20.974 | 228  | 14214    | 0.397 | ng    | 100      |
| 34) Bis(2-ethylhexyl)phtha... | 20.893 | 149  | 6282     | 0.458 | ng    | 100      |
| 36) Indeno(1,2,3-cd)pyrene    | 25.041 | 276  | 15946    | 0.377 | ng    | 97       |
| 37) Benzo(b)fluoranthene      | 22.412 | 252  | 19565    | 0.494 | ng    | # 96     |
| 38) Benzo(k)fluoranthene      | 22.453 | 252  | 16469m   | 0.423 | ng    |          |
| 39) Benzo(a)pyrene            | 22.933 | 252  | 12458    | 0.382 | ng    | # 92     |
| 40) Dibenzo(a,h)anthracene    | 25.058 | 278  | 12678    | 0.380 | ng    | 96       |
| 41) Benzo(g,h,i)perylene      | 25.646 | 276  | 14614    | 0.419 | ng    | 98       |
| -----                         |        |      |          |       |       |          |

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

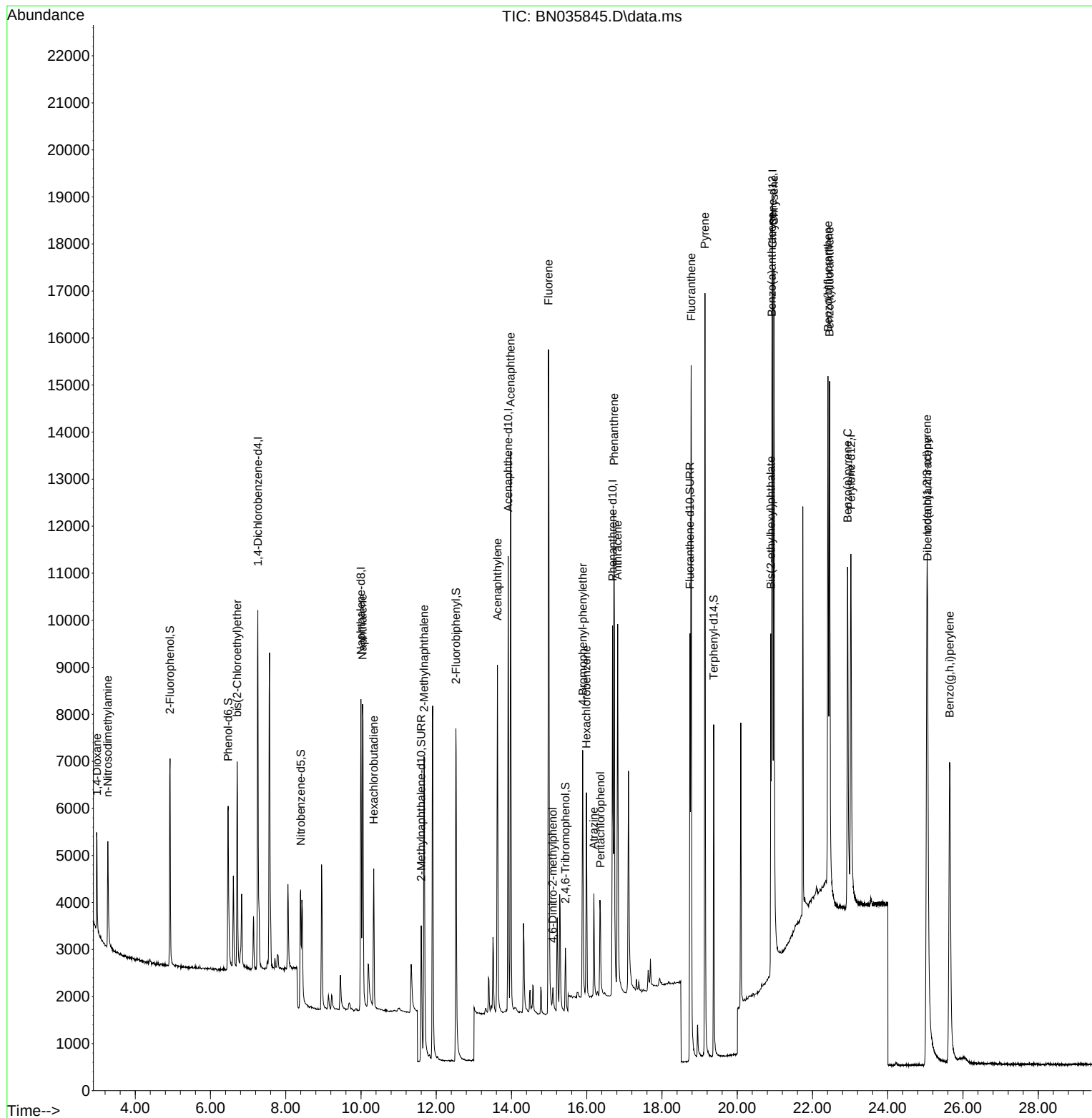
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 Data File : BN035845.D  
 Acq On : 26 Dec 2024 09:58  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

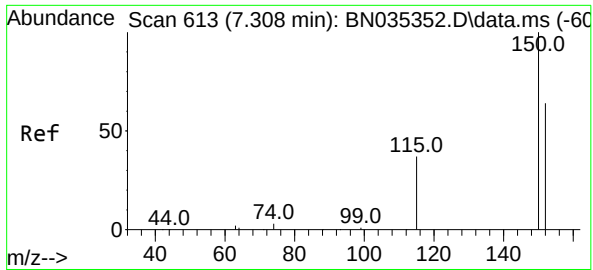
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 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4

### Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/27/2024  
 Supervised By :mohammad ahmed 12/27/2024

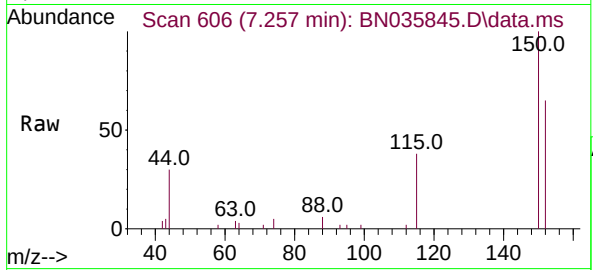
Quant Time: Dec 27 00:40:11 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Dec 19 23:06:19 2024  
 Response via : Initial Calibration





#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.257 min Scan# 60  
Delta R.T. -0.015 min  
Lab File: BN035845.D  
Acq: 26 Dec 2024 09:58

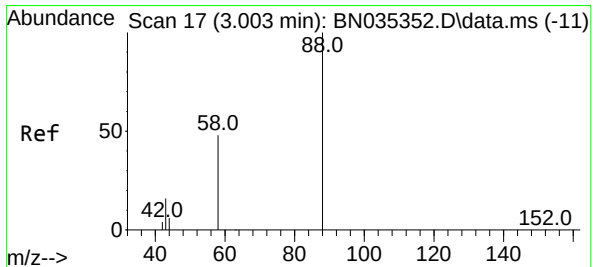
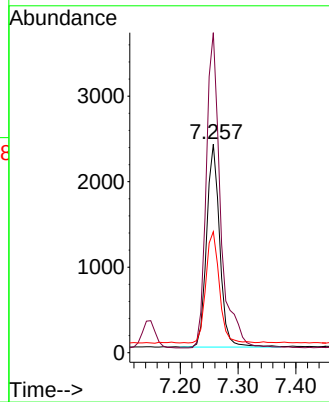
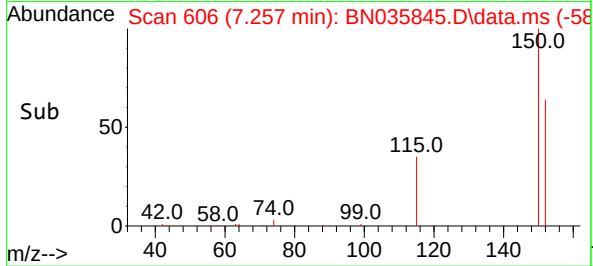
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4



Tgt Ion: 152 Resp: 375  
Ion Ratio Lower Upper  
152 100  
150 153.5 124.0 186.0  
115 58.0 49.6 74.4

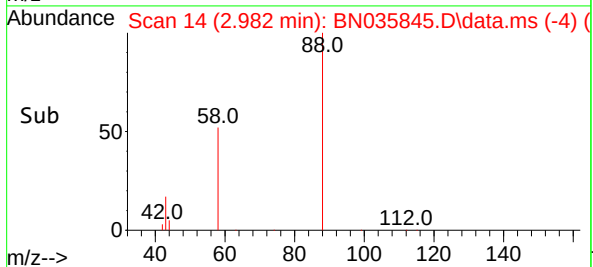
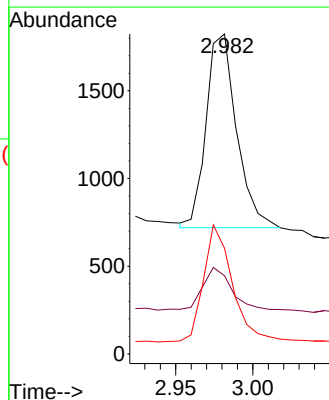
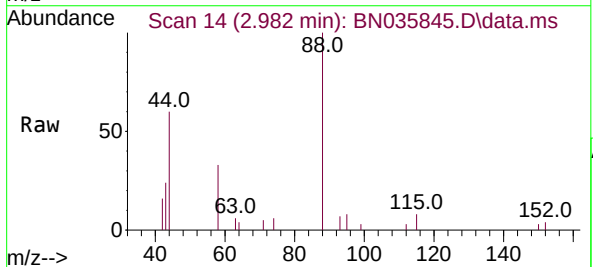
Manual Integrations  
APPROVED

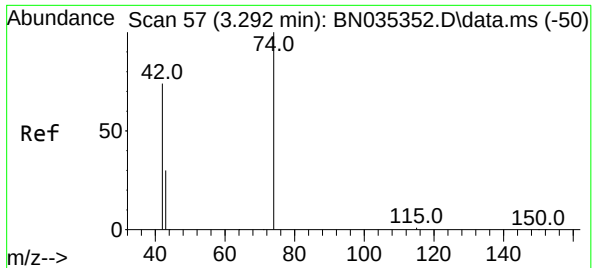
Reviewed By :Yogesh Patel 12/27/2024  
Supervised By :mohammad ahmed 12/27/2024



#2  
1,4-Dioxane  
Concen: 0.423 ng  
RT: 2.982 min Scan# 14  
Delta R.T. -0.000 min  
Lab File: BN035845.D  
Acq: 26 Dec 2024 09:58

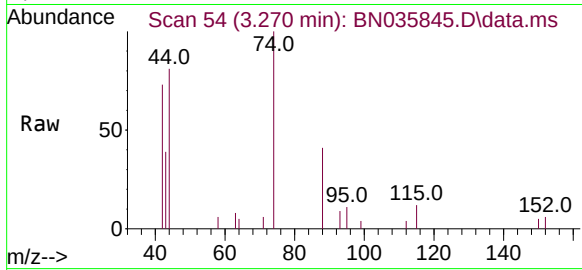
Tgt Ion: 88 Resp: 1520  
Ion Ratio Lower Upper  
88 100  
43 19.9 17.2 25.8  
58 57.5 44.5 66.7





#3  
n-Nitrosodimethylamine  
Concen: 0.409 ng  
RT: 3.270 min Scan# 54  
Delta R.T. -0.007 min  
Lab File: BN035845.D  
Acq: 26 Dec 2024 09:58

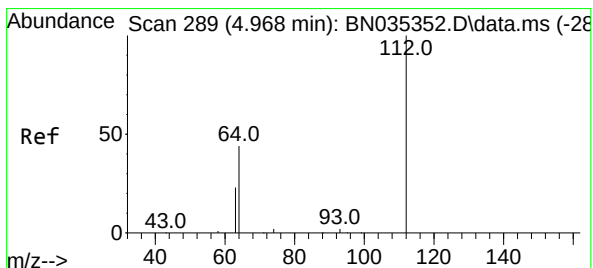
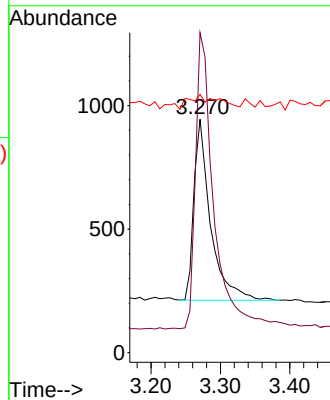
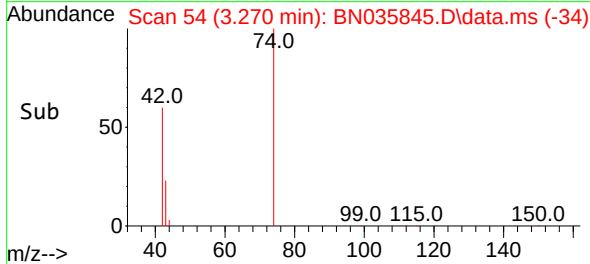
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4



Tgt Ion: 42 Resp: 122  
Ion Ratio Lower Upper  
42 100  
74 179.4 124.9 187.3  
44 16.9 2.2 3.4

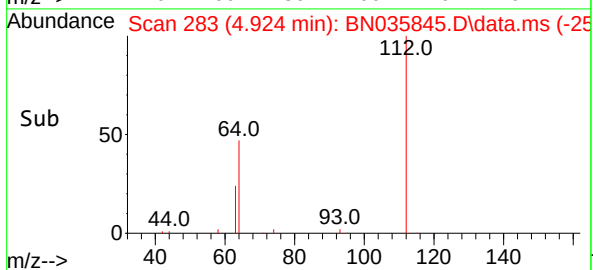
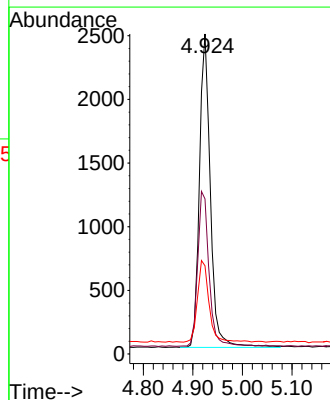
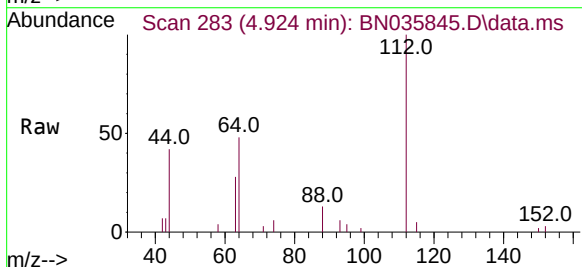
Manual Integrations  
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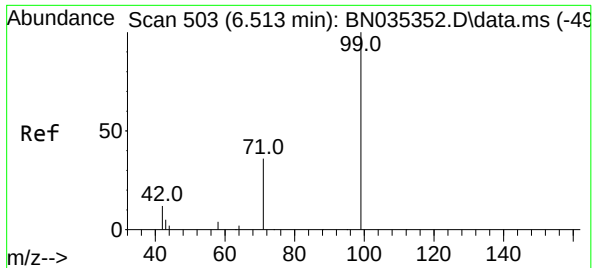
Reviewed By :Yogesh Patel 12/27/2024  
Supervised By :mohammad ahmed 12/27/2024



#4  
2-Fluorophenol  
Concen: 0.402 ng  
RT: 4.924 min Scan# 283  
Delta R.T. -0.015 min  
Lab File: BN035845.D  
Acq: 26 Dec 2024 09:58

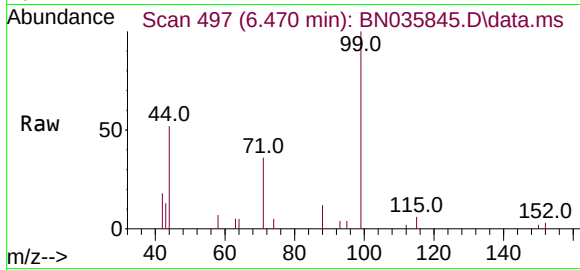
Tgt Ion:112 Resp: 3777  
Ion Ratio Lower Upper  
112 100  
64 51.0 39.8 59.8  
63 27.5 21.0 31.6





#5  
Phenol-d6  
Concen: 0.369 ng  
RT: 6.470 min Scan# 497  
Delta R.T. -0.022 min  
Lab File: BN035845.D  
Acq: 26 Dec 2024 09:58

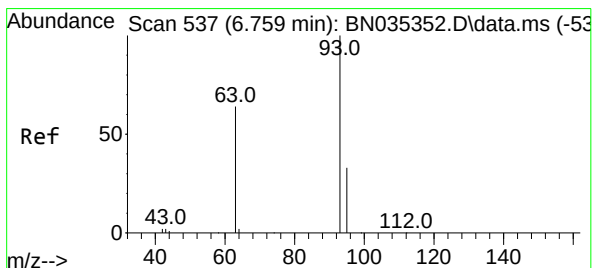
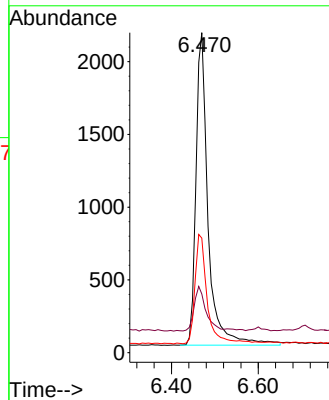
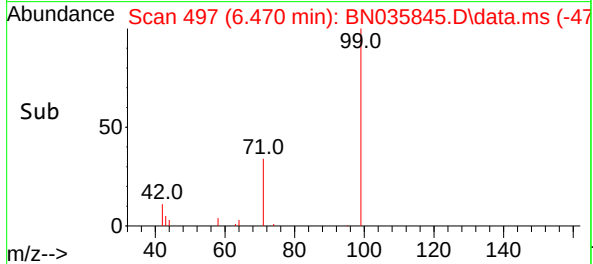
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4



Tgt Ion: 99 Resp: 4179  
Ion Ratio Lower Upper  
99 100  
42 14.0 11.4 17.2  
71 35.3 29.3 43.9

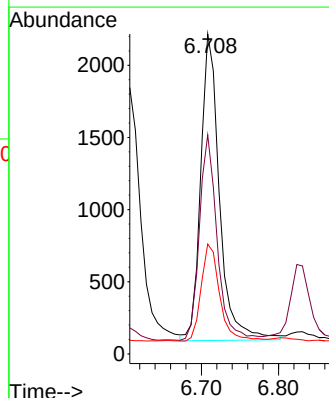
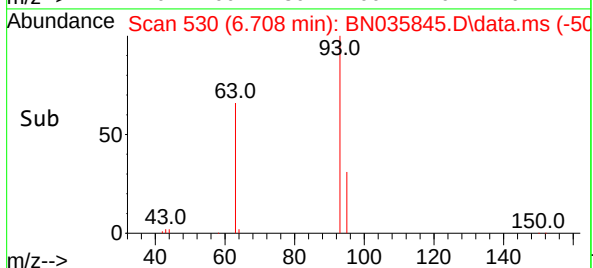
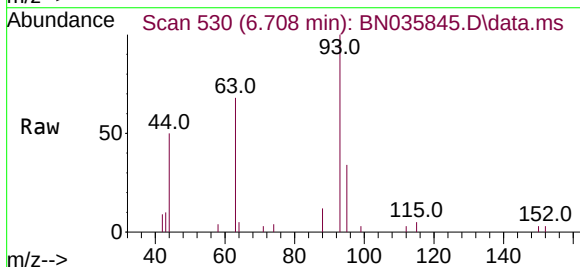
Manual Integrations  
**APPROVED**

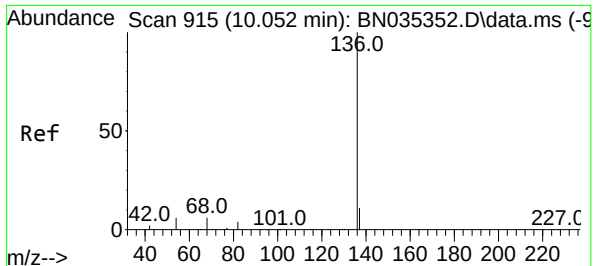
Reviewed By :Yogesh Patel 12/27/2024  
Supervised By :mohammad ahmed 12/27/2024



#6  
bis(2-Chloroethyl)ether  
Concen: 0.379 ng  
RT: 6.708 min Scan# 530  
Delta R.T. -0.022 min  
Lab File: BN035845.D  
Acq: 26 Dec 2024 09:58

Tgt Ion: 93 Resp: 3599  
Ion Ratio Lower Upper  
93 100  
63 63.3 50.4 75.6  
95 31.3 25.7 38.5





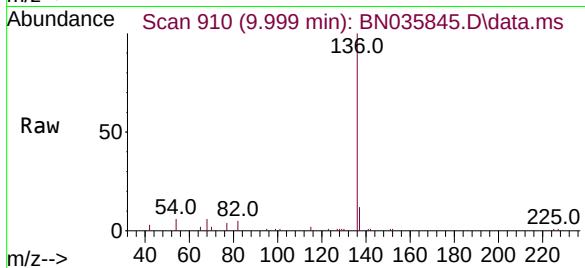
#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 9.999 min Scan# 915  
Delta R.T. -0.022 min  
Lab File: BN035845.D  
Acq: 26 Dec 2024 09:58

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4



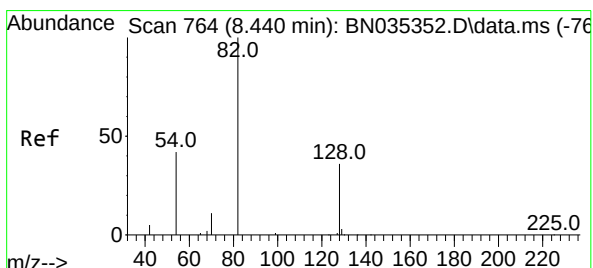
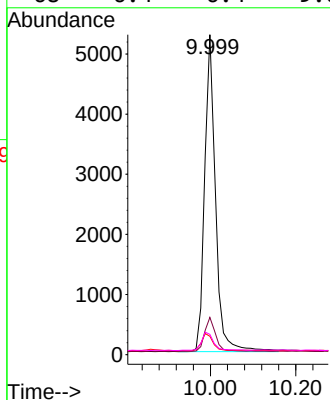
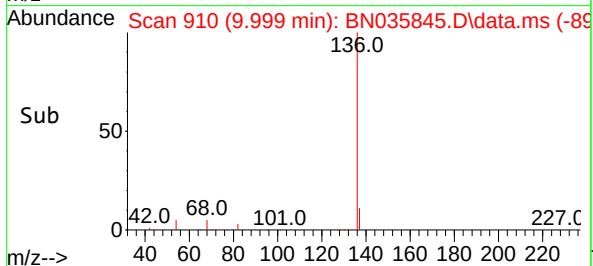
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 136     | 100   |       |       |
| 137     | 11.6  | 10.2  | 15.2  |
| 54      | 5.8   | 6.1   | 9.1   |
| 68      | 6.4   | 6.4   | 9.6   |

Manual Integrations

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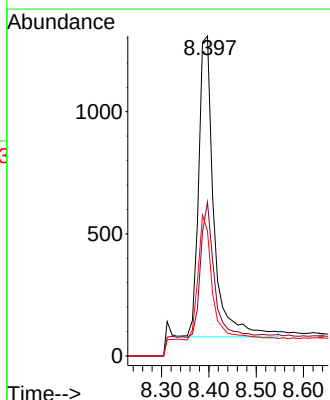
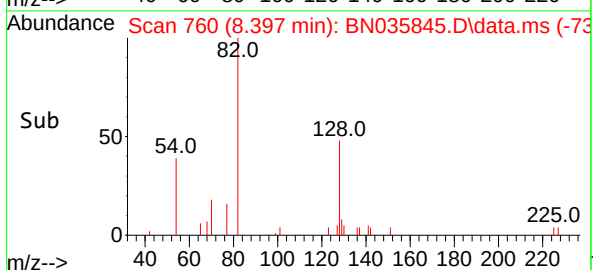
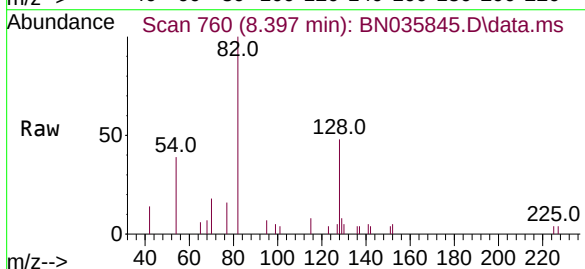
Reviewed By :Yogesh Patel 12/27/2024

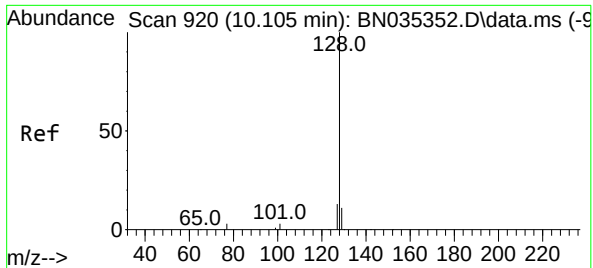
Supervised By :mohammad ahmed 12/27/2024



#8  
Nitrobenzene-d5  
Concen: 0.488 ng m  
RT: 8.397 min Scan# 760  
Delta R.T. -0.011 min  
Lab File: BN035845.D  
Acq: 26 Dec 2024 09:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 48.1  | 33.4  | 50.0  |
| 54      | 39.1  | 36.7  | 55.1  |





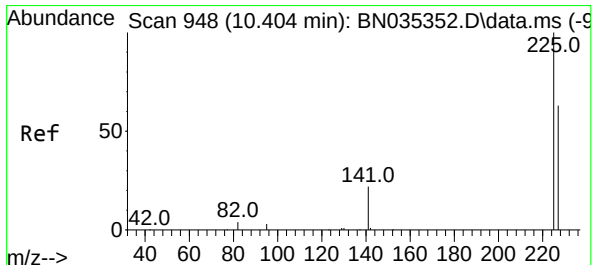
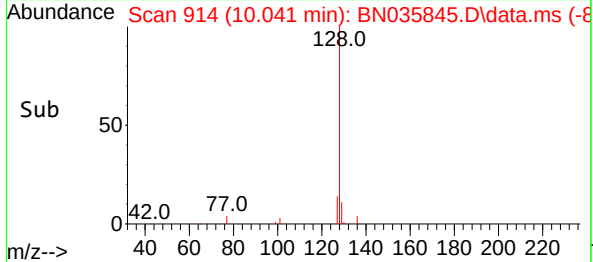
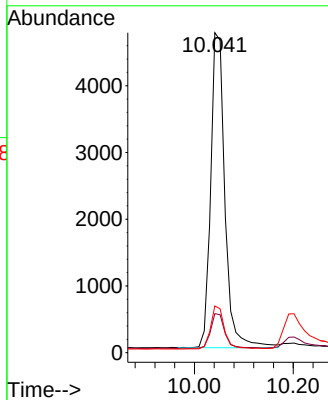
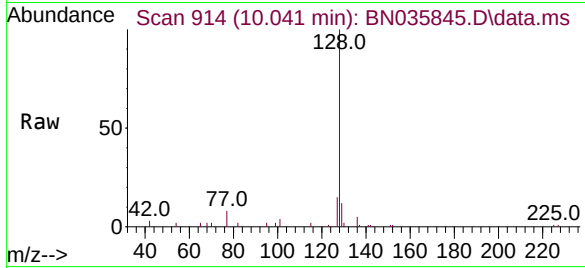
#9  
Naphthalene  
Concen: 0.384 ng  
RT: 10.041 min Scan# 914  
Delta R.T. -0.021 min  
Lab File: BN035845.D  
Acq: 26 Dec 2024 09:58

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

Tgt Ion:128 Resp: 9440  
Ion Ratio Lower Upper  
128 100  
129 12.2 9.8 14.6  
127 14.6 11.4 17.2

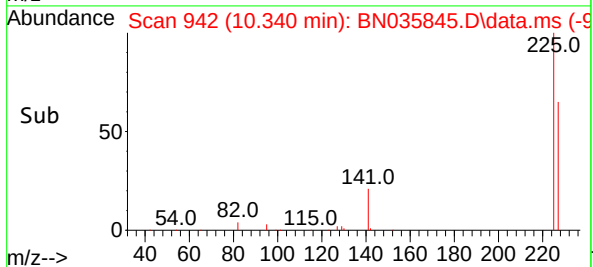
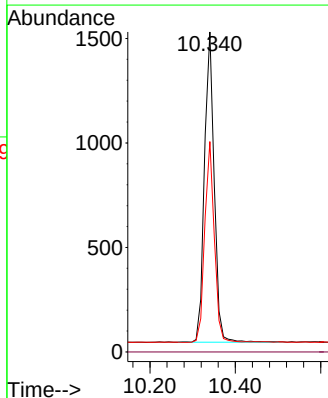
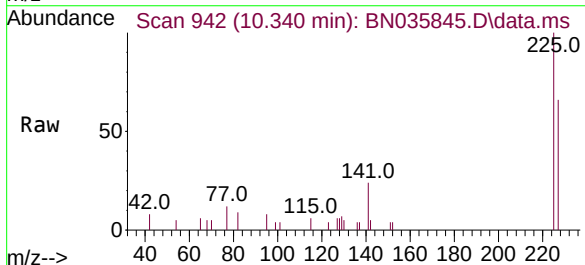
Manual Integrations  
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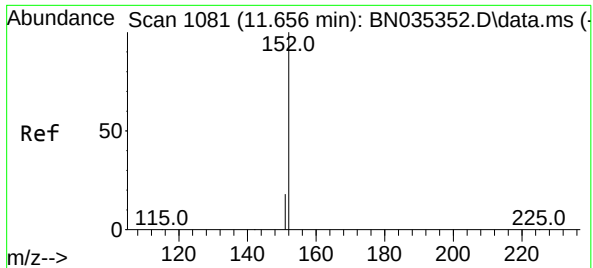
Reviewed By :Yogesh Patel 12/27/2024  
Supervised By :mohammad ahmed 12/27/2024



#10  
Hexachlorobutadiene  
Concen: 0.415 ng  
RT: 10.340 min Scan# 942  
Delta R.T. -0.021 min  
Lab File: BN035845.D  
Acq: 26 Dec 2024 09:58

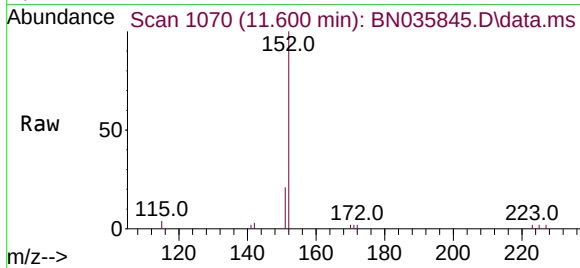
Tgt Ion:225 Resp: 2352  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 63.7 51.3 76.9





#11  
2-Methylnaphthalene-d10  
Concen: 0.348 ng  
RT: 11.600 min Scan# 1080  
Delta R.T. -0.020 min  
Lab File: BN035845.D  
Acq: 26 Dec 2024 09:58

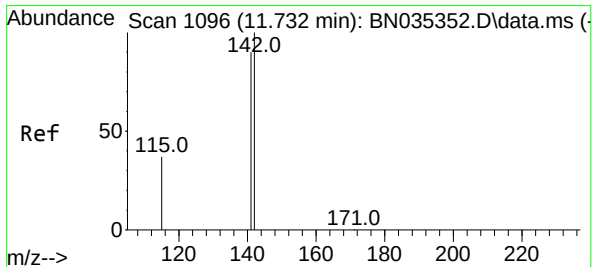
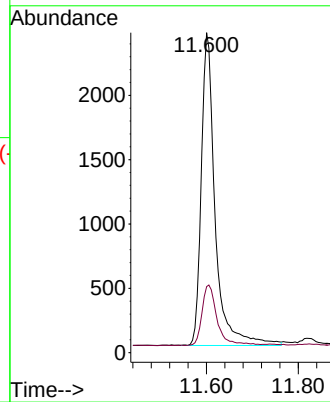
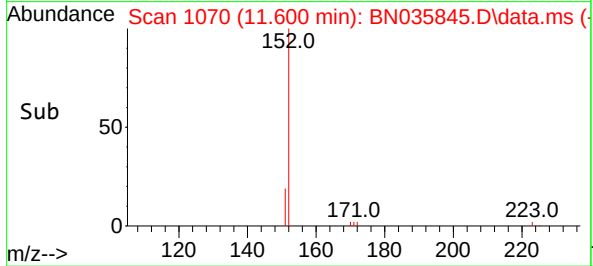
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4



Tgt Ion:152 Resp: 5080  
Ion Ratio Lower Upper  
152 100  
151 21.0 16.6 25.0

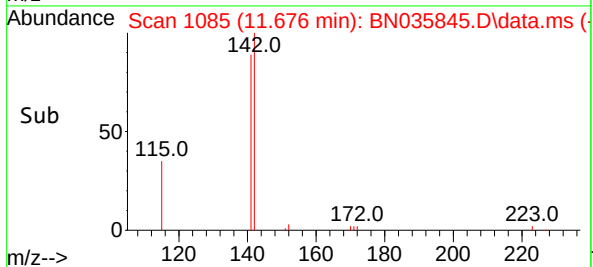
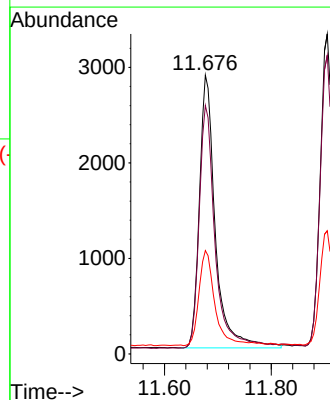
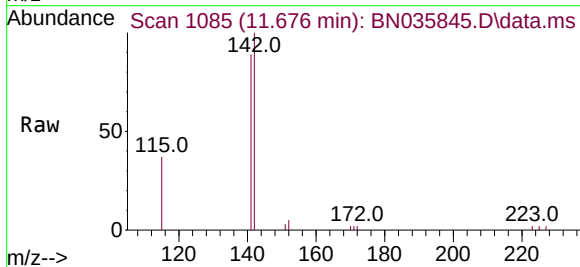
Manual Integrations  
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Supervised By :mohammad ahmed 12/27/2024

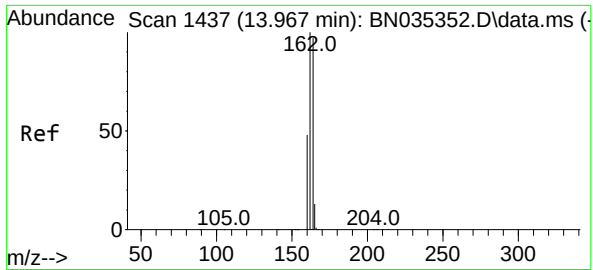


#12  
2-Methylnaphthalene  
Concen: 0.337 ng  
RT: 11.676 min Scan# 1085  
Delta R.T. -0.020 min  
Lab File: BN035845.D  
Acq: 26 Dec 2024 09:58

Tgt Ion:142 Resp: 5939  
Ion Ratio Lower Upper  
142 100  
141 89.1 72.2 108.4  
115 37.1 31.4 47.0

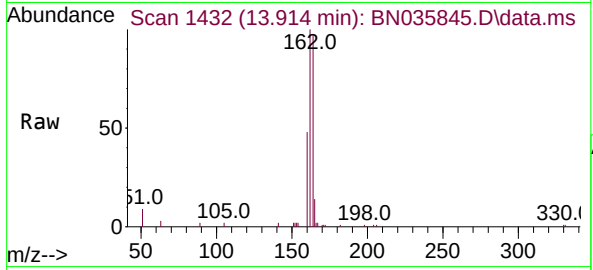






#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.914 min Scan# 1432  
Delta R.T. -0.022 min  
Lab File: BN035845.D  
Acq: 26 Dec 2024 09:58

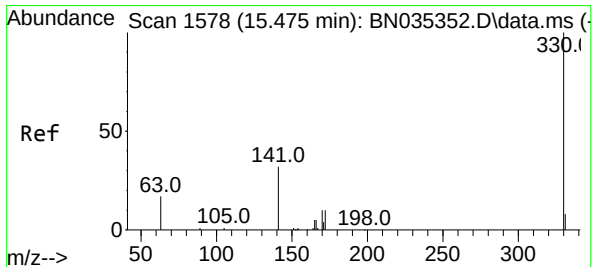
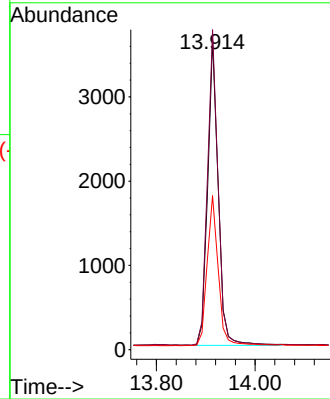
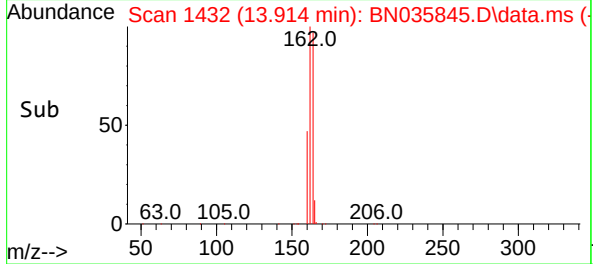
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4



Tgt Ion:164 Resp: 538  
Ion Ratio Lower Upper  
164 100  
162 103.2 82.2 123.2  
160 49.7 40.1 60.1

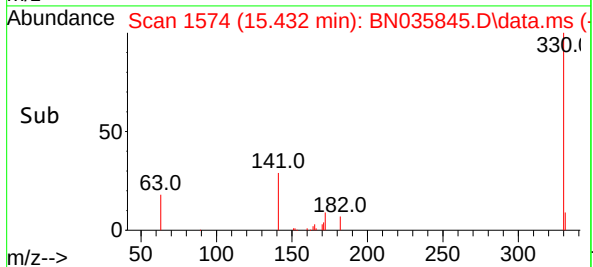
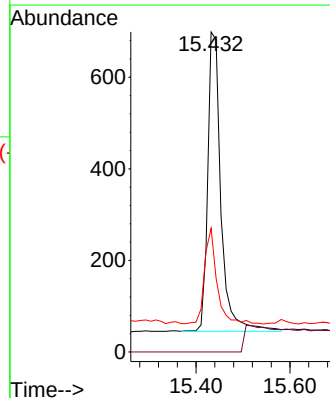
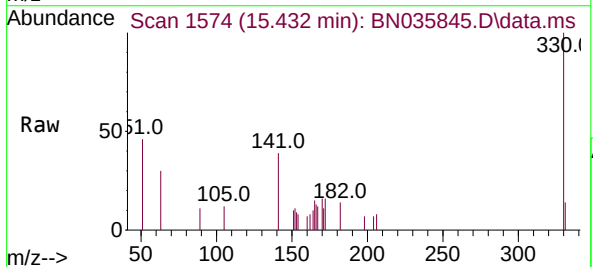
Manual Integrations  
**APPROVED**

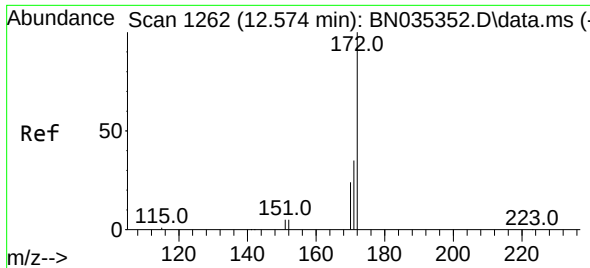
Reviewed By :Yogesh Patel 12/27/2024  
Supervised By :mohammad ahmed 12/27/2024



#14  
2,4,6-Tribromophenol  
Concen: 0.350 ng  
RT: 15.432 min Scan# 1574  
Delta R.T. -0.022 min  
Lab File: BN035845.D  
Acq: 26 Dec 2024 09:58

Tgt Ion:330 Resp: 1338  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 29.7 26.6 40.0





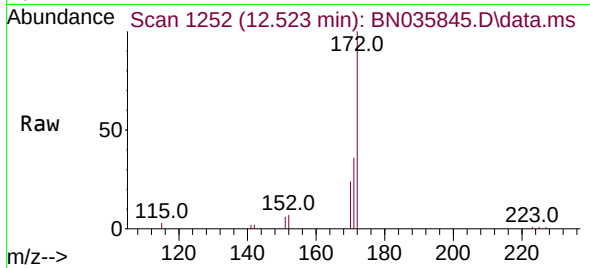
#15  
2-Fluorobiphenyl  
Concen: 0.398 ng  
RT: 12.523 min Scan# 11  
Delta R.T. -0.020 min  
Lab File: BN035845.D  
Acq: 26 Dec 2024 09:58

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4



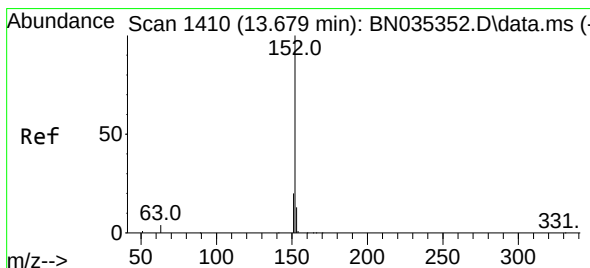
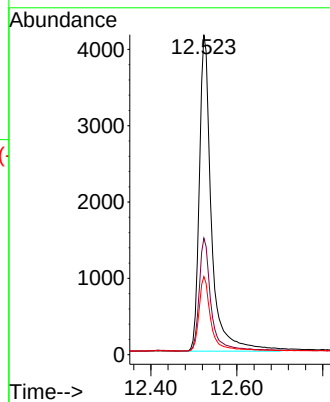
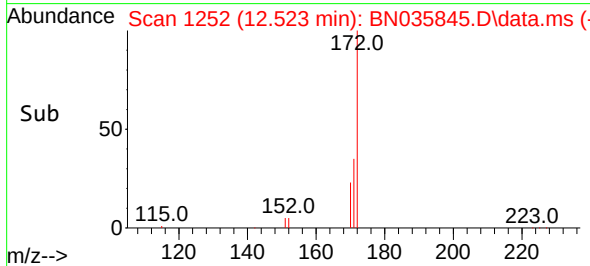
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.4  | 29.0  | 43.4  |
| 170     | 24.4  | 19.8  | 29.8  |

Manual Integrations

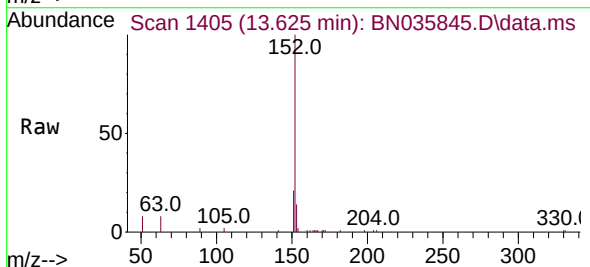
APPROVED

Reviewed By :Yogesh Patel 12/27/2024

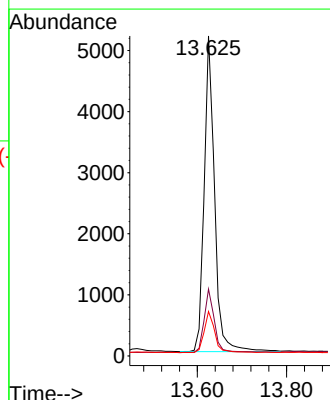
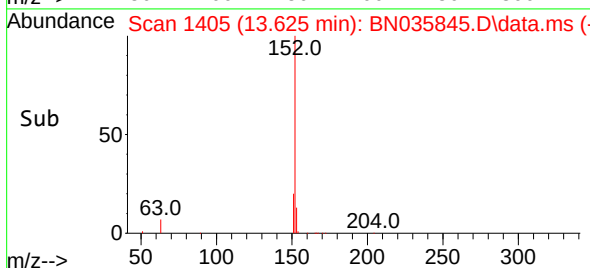
Supervised By :mohammad ahmed 12/27/2024

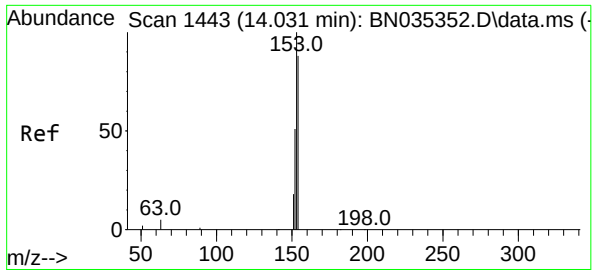


#16  
Acenaphthylene  
Concen: 0.369 ng  
RT: 13.625 min Scan# 1405  
Delta R.T. -0.022 min  
Lab File: BN035845.D  
Acq: 26 Dec 2024 09:58



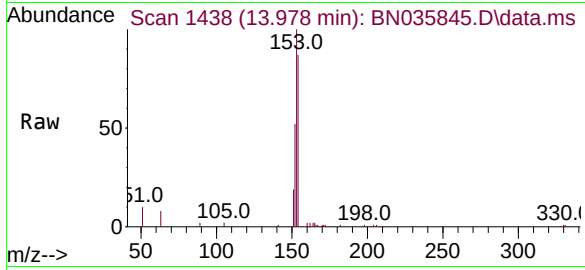
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 20.1  | 16.2  | 24.2  |
| 153     | 13.2  | 10.4  | 15.6  |





#17  
Acenaphthene  
Concen: 0.379 ng  
RT: 13.978 min Scan# 1443  
Delta R.T. -0.022 min  
Lab File: BN035845.D  
Acq: 26 Dec 2024 09:58

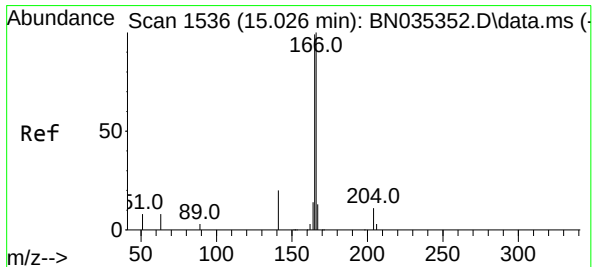
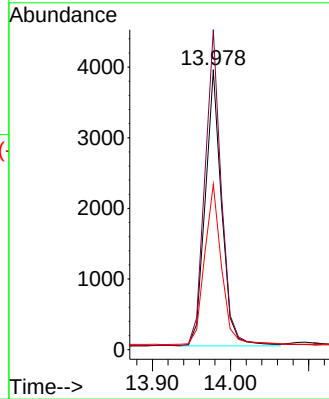
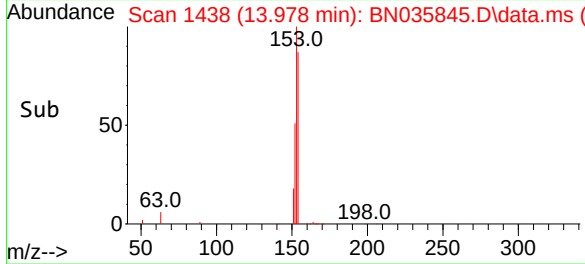
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4



Tgt Ion:154 Resp: 569  
Ion Ratio Lower Upper  
154 100  
153 116.1 92.6 139.0  
152 60.4 49.0 73.6

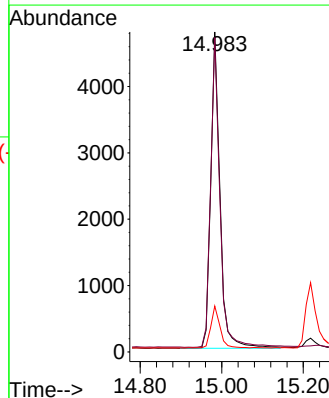
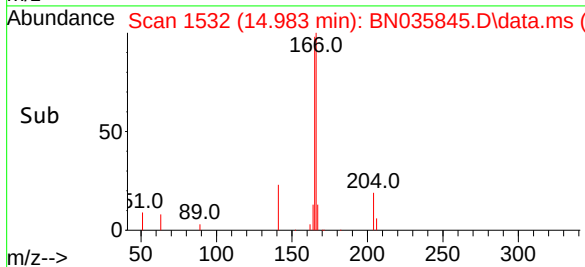
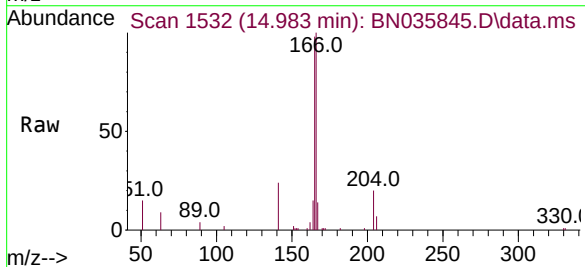
Manual Integrations  
**APPROVED**

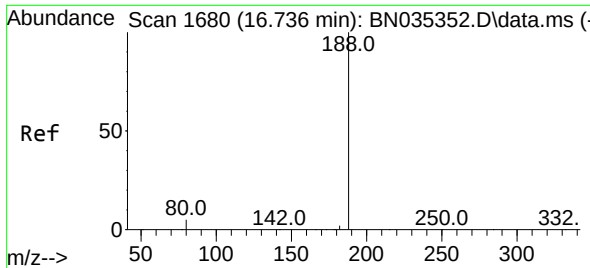
Reviewed By :Yogesh Patel 12/27/2024  
Supervised By :mohammad ahmed 12/27/2024



#18  
Fluorene  
Concen: 0.350 ng  
RT: 14.983 min Scan# 1532  
Delta R.T. -0.022 min  
Lab File: BN035845.D  
Acq: 26 Dec 2024 09:58

Tgt Ion:166 Resp: 7523  
Ion Ratio Lower Upper  
166 100  
165 98.0 79.7 119.5  
167 13.4 10.8 16.2





#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 16.686 min Scan# 1126  
Delta R.T. -0.013 min  
Lab File: BN035845.D  
Acq: 26 Dec 2024 09:58

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

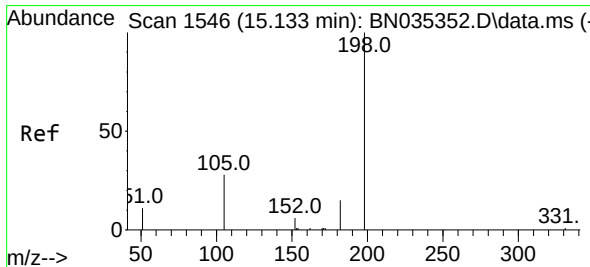
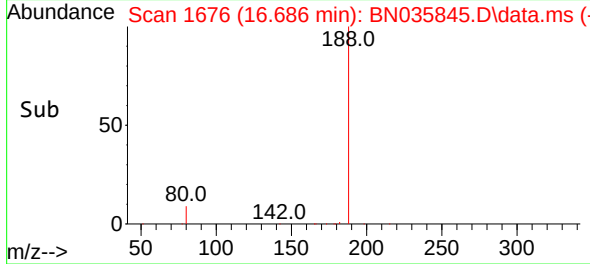
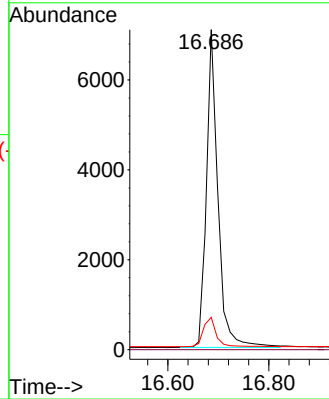
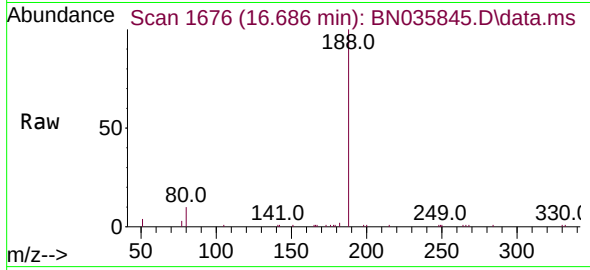
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 0.0   | 0.0   | 0.0   |
| 80      | 10.1  | 4.6   | 6.8   |

Manual Integrations

APPROVED

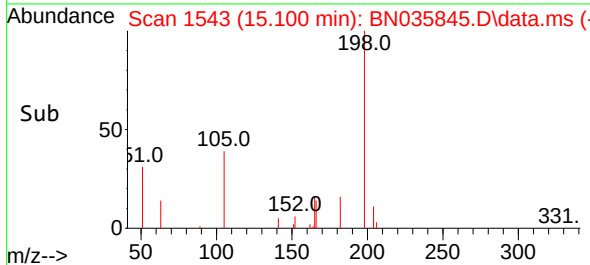
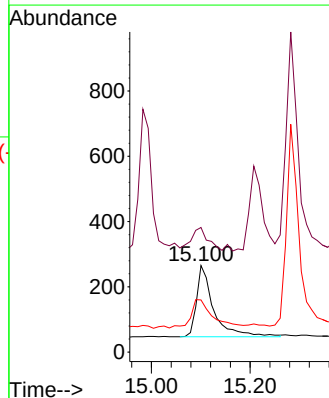
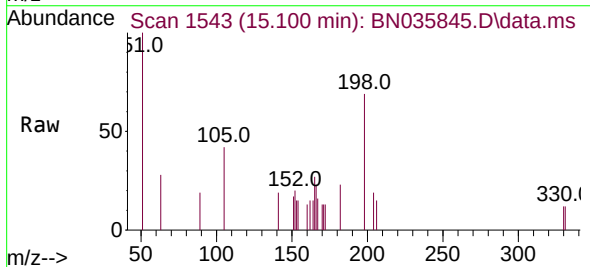
Reviewed By :Yogesh Patel 12/27/2024

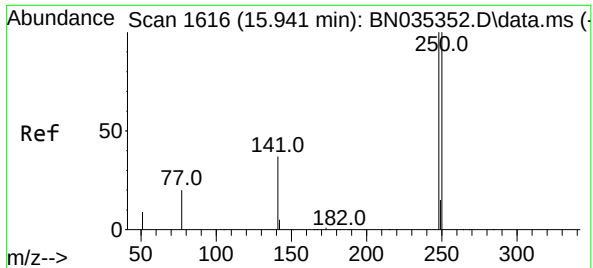
Supervised By :mohammad ahmed 12/27/2024



#20  
4,6-Dinitro-2-methylphenol  
Concen: 0.475 ng  
RT: 15.100 min Scan# 1543  
Delta R.T. -0.022 min  
Lab File: BN035845.D  
Acq: 26 Dec 2024 09:58

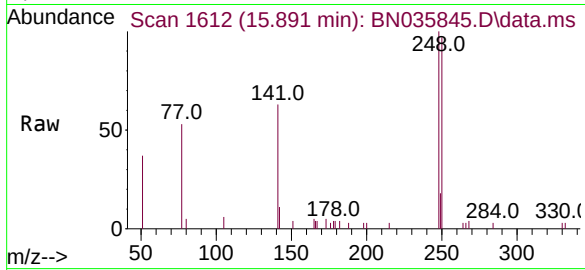
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 198     | 100   |       |       |
| 51      | 144.2 | 46.5  | 69.7  |
| 105     | 60.4  | 45.3  | 67.9  |





#21  
4-Bromophenyl-phenylether  
Concen: 0.371 ng  
RT: 15.891 min Scan# 1612  
Delta R.T. -0.025 min  
Lab File: BN035845.D  
Acq: 26 Dec 2024 09:58

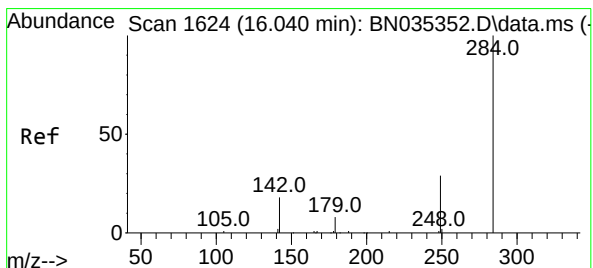
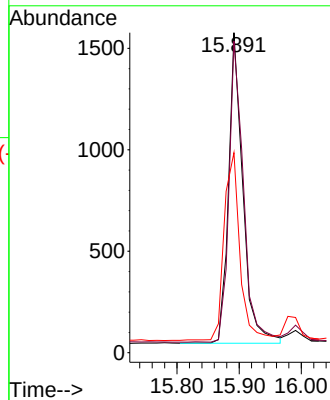
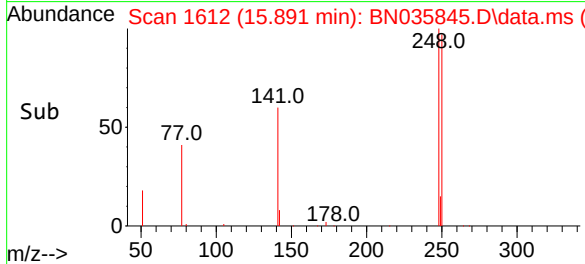
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4



Tgt Ion:248 Resp: 244  
Ion Ratio Lower Upper  
248 100  
250 97.3 80.6 120.8  
141 62.5 31.5 47.3

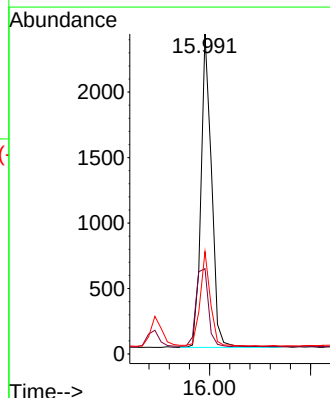
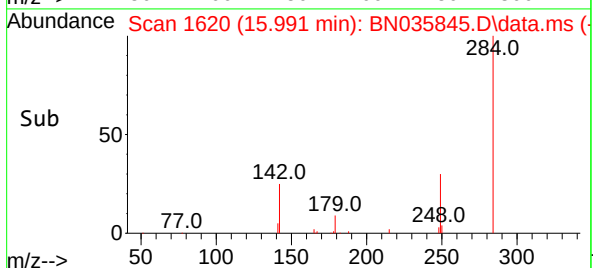
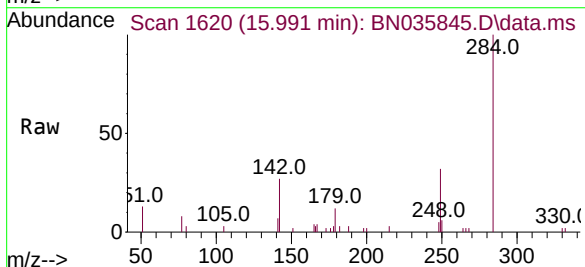
Manual Integrations  
**APPROVED**

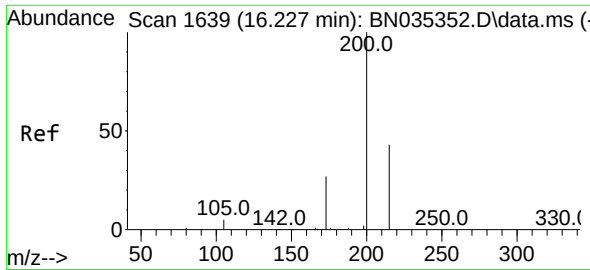
Reviewed By :Yogesh Patel 12/27/2024  
Supervised By :mohammad ahmed 12/27/2024



#22  
Hexachlorobenzene  
Concen: 0.450 ng  
RT: 15.991 min Scan# 1620  
Delta R.T. -0.025 min  
Lab File: BN035845.D  
Acq: 26 Dec 2024 09:58

Tgt Ion:284 Resp: 3482  
Ion Ratio Lower Upper  
284 100  
142 29.6 26.7 40.1  
249 28.9 24.6 36.8





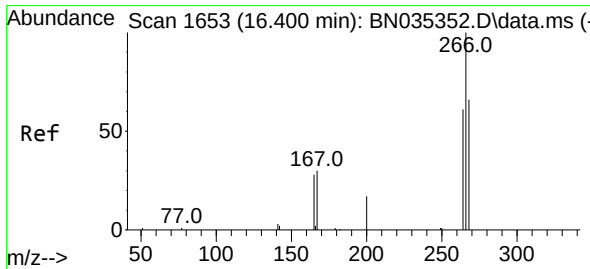
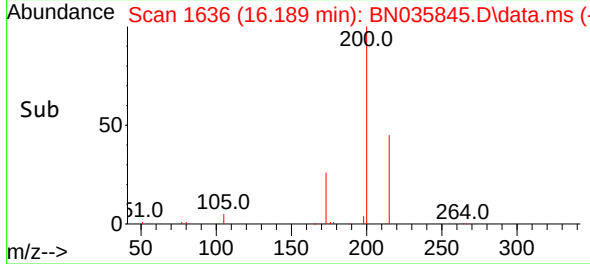
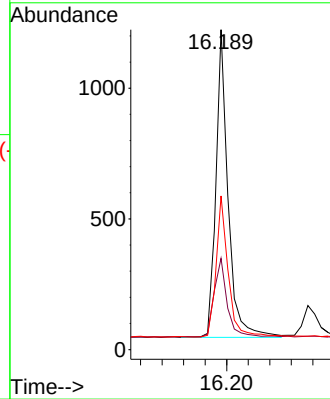
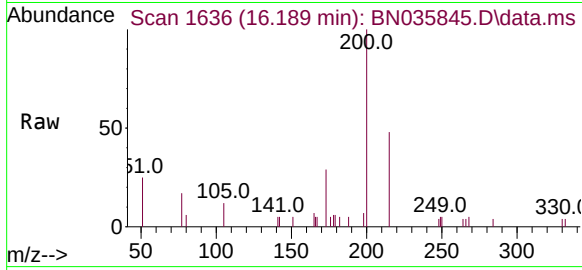
#23  
Atrazine  
Concen: 0.393 ng  
RT: 16.189 min Scan# 1636  
Delta R.T. -0.013 min  
Lab File: BN035845.D  
Acq: 26 Dec 2024 09:58

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

Tgt Ion:200 Resp: 184  
Ion Ratio Lower Upper  
200 100  
173 28.5 24.1 36.1  
215 48.0 36.9 55.3

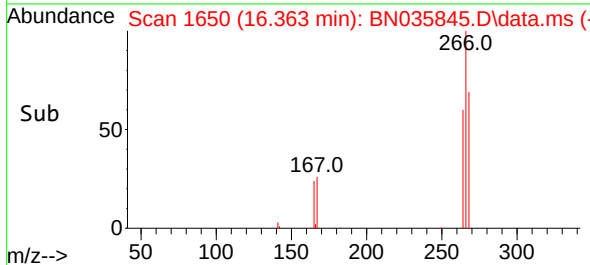
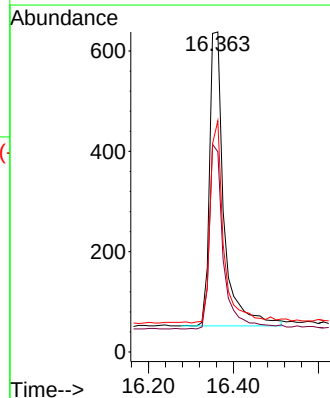
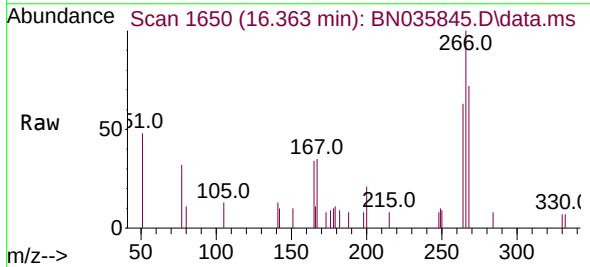
Manual Integrations  
APPROVED

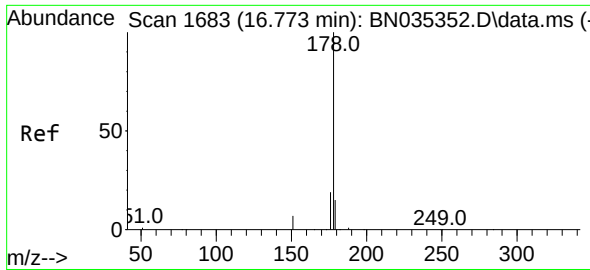
Reviewed By :Yogesh Patel 12/27/2024  
Supervised By :mohammad ahmed 12/27/2024



#24  
Pentachlorophenol  
Concen: 0.411 ng  
RT: 16.363 min Scan# 1650  
Delta R.T. -0.013 min  
Lab File: BN035845.D  
Acq: 26 Dec 2024 09:58

Tgt Ion:266 Resp: 1383  
Ion Ratio Lower Upper  
266 100  
264 61.3 42.3 63.5  
268 63.8 43.3 64.9





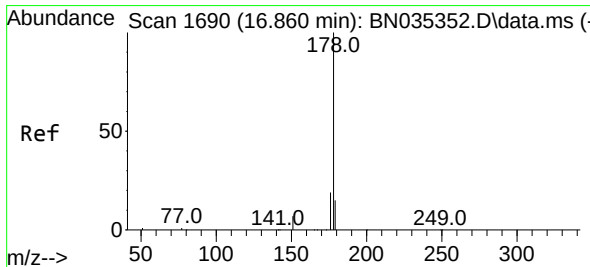
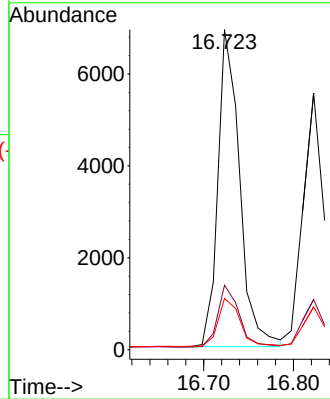
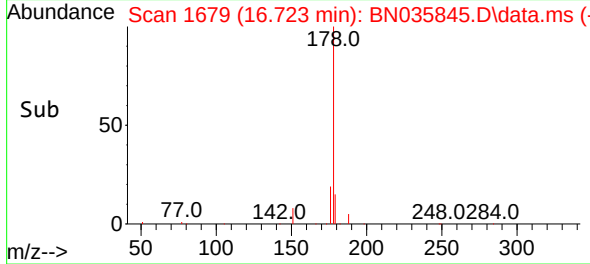
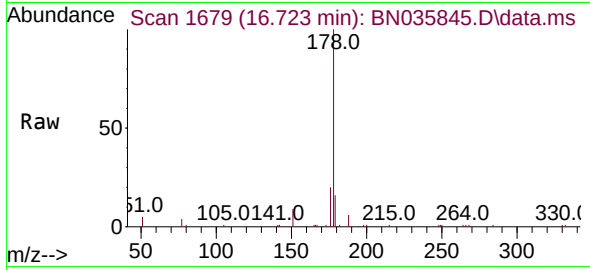
#25  
Phenanthrene  
Concen: 0.375 ng  
RT: 16.723 min Scan# 1682  
Delta R.T. -0.025 min  
Lab File: BN035845.D  
Acq: 26 Dec 2024 09:58

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

Tgt Ion:178 Resp: 11602  
Ion Ratio Lower Upper  
178 100  
176 19.2 15.4 23.2  
179 15.7 12.3 18.5

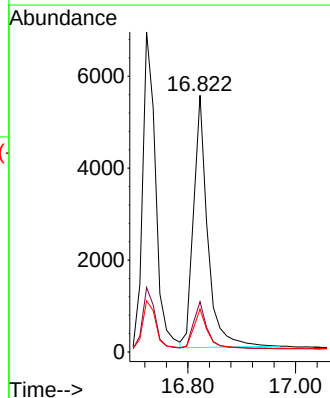
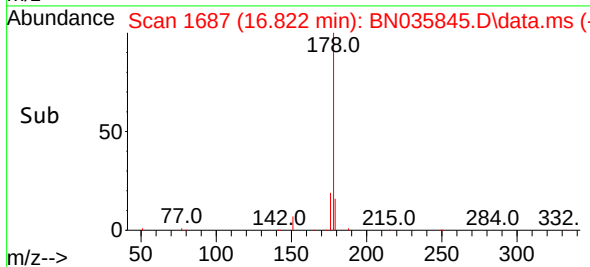
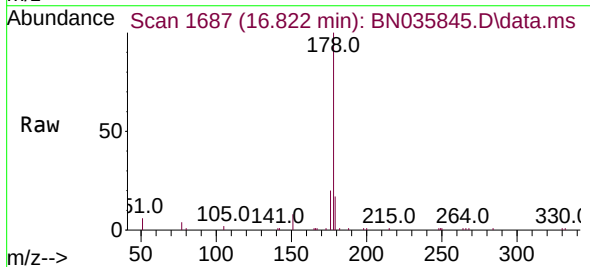
Manual Integrations  
**APPROVED**

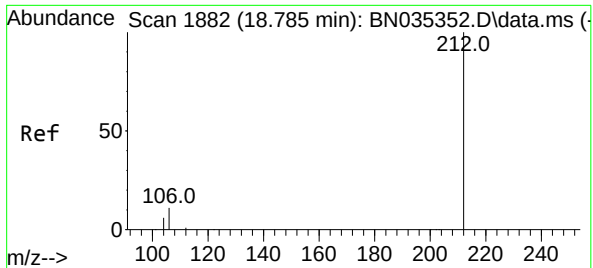
Reviewed By :Yogesh Patel 12/27/2024  
Supervised By :mohammad ahmed 12/27/2024



#26  
Anthracene  
Concen: 0.358 ng  
RT: 16.822 min Scan# 1687  
Delta R.T. -0.013 min  
Lab File: BN035845.D  
Acq: 26 Dec 2024 09:58

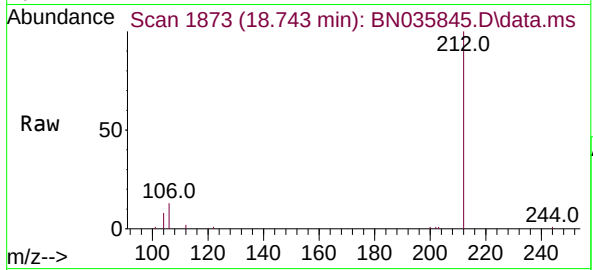
Tgt Ion:178 Resp: 10005  
Ion Ratio Lower Upper  
178 100  
176 18.8 15.0 22.6  
179 15.3 12.6 18.8





#27  
Fluoranthene-d10  
Concen: 0.350 ng  
RT: 18.743 min Scan# 1873  
Delta R.T. -0.019 min  
Lab File: BN035845.D  
Acq: 26 Dec 2024 09:58

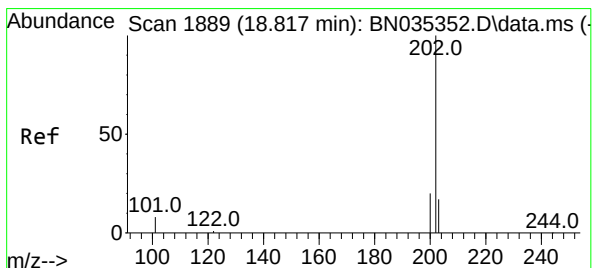
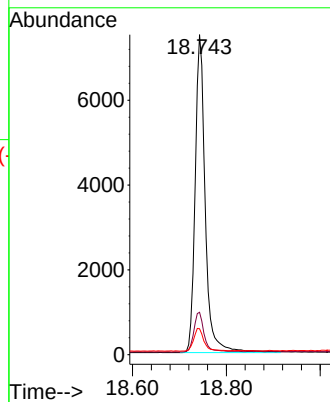
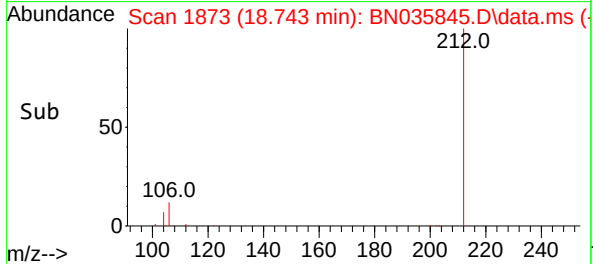
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4



Tgt Ion:212 Resp: 1116  
Ion Ratio Lower Upper  
212 100  
106 12.7 9.2 13.8  
104 7.4 5.3 7.9

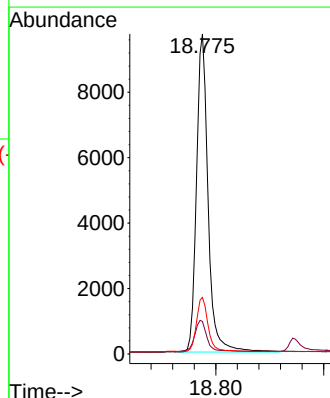
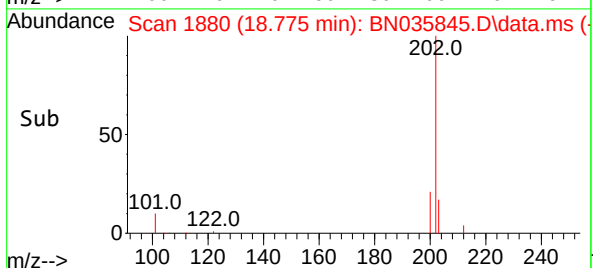
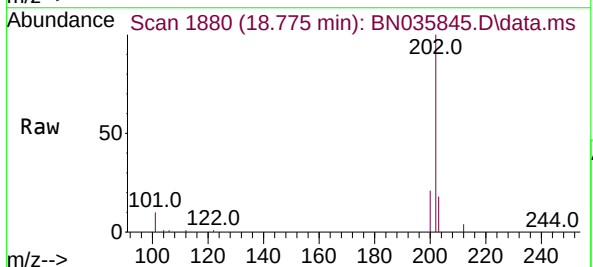
Manual Integrations  
**APPROVED**

Reviewed By :Yogesh Patel 12/27/2024  
Supervised By :mohammad ahmed 12/27/2024

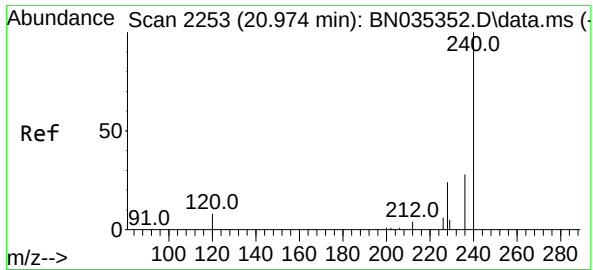


#28  
Fluoranthene  
Concen: 0.347 ng  
RT: 18.775 min Scan# 1880  
Delta R.T. -0.014 min  
Lab File: BN035845.D  
Acq: 26 Dec 2024 09:58

Tgt Ion:202 Resp: 14489  
Ion Ratio Lower Upper  
202 100  
101 10.7 7.4 11.0  
203 17.0 13.7 20.5







#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.938 min Scan# 21

Delta R.T. -0.018 min

Lab File: BN035845.D

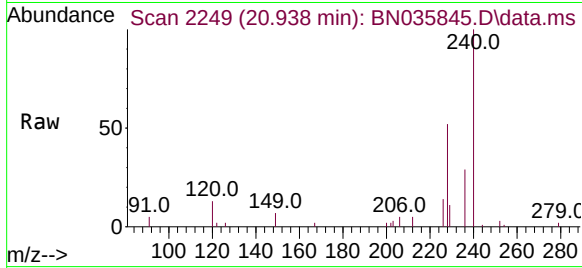
Acq: 26 Dec 2024 09:58

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4



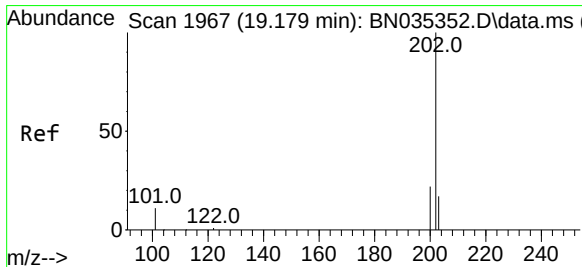
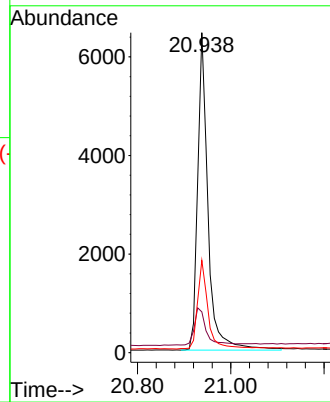
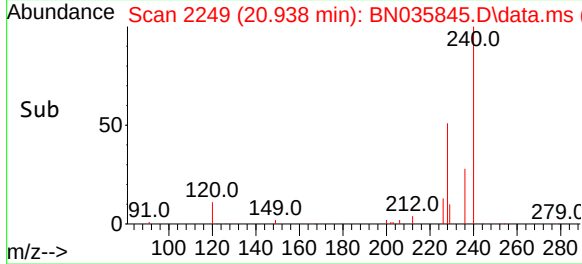
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 240   | Resp: | 993  |
| Ion Ratio | Lower | Upper |      |
| 240       | 100   |       |      |
| 120       | 12.7  | 7.9   | 11.9 |
| 236       | 28.9  | 22.9  | 34.3 |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/27/2024

Supervised By :mohammad ahmed 12/27/2024



#30

Pyrene

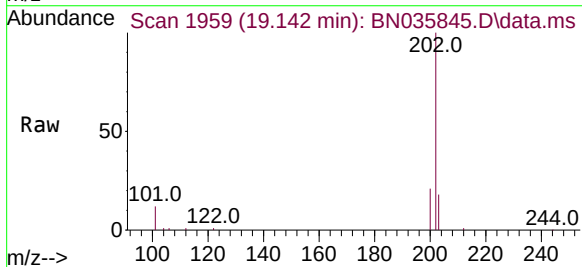
Concen: 0.417 ng

RT: 19.142 min Scan# 1959

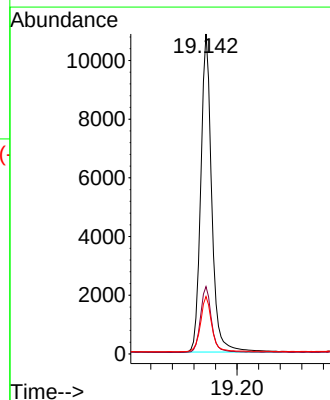
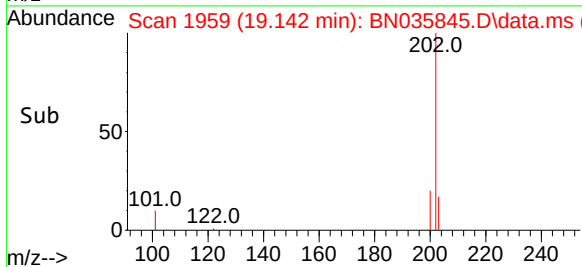
Delta R.T. -0.019 min

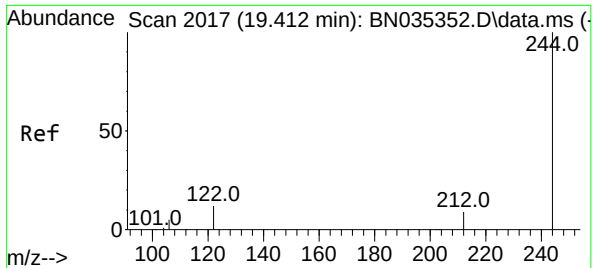
Lab File: BN035845.D

Acq: 26 Dec 2024 09:58



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 15278 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 200       | 21.0  | 17.0  | 25.4  |
| 203       | 17.9  | 14.3  | 21.5  |





#31  
Terphenyl-d14  
Concen: 0.397 ng  
RT: 19.375 min Scan# 2017  
Delta R.T. -0.014 min  
Lab File: BN035845.D  
Acq: 26 Dec 2024 09:58

Instrument :

BNA\_N

ClientSampleId :

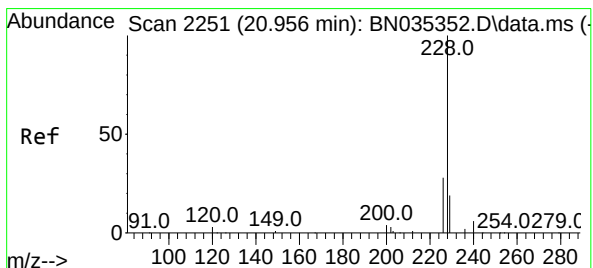
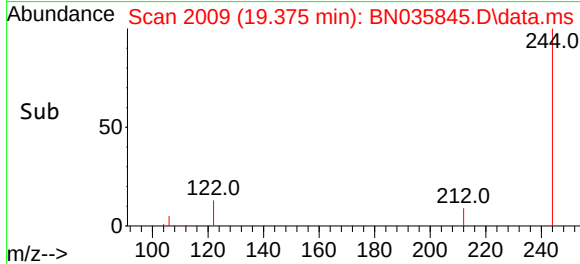
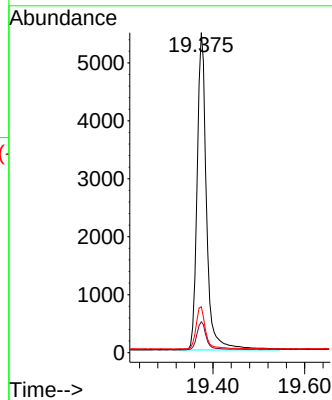
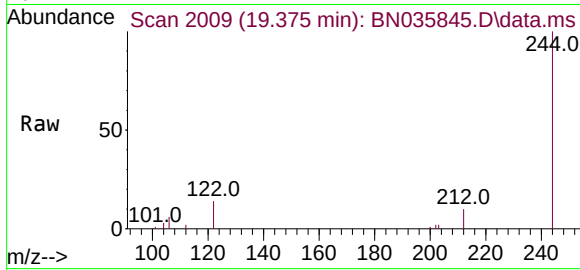
SSTDCCC0.4

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 9.7   | 8.1   | 12.1  |
| 122     | 14.4  | 10.3  | 15.5  |

Manual Integrations

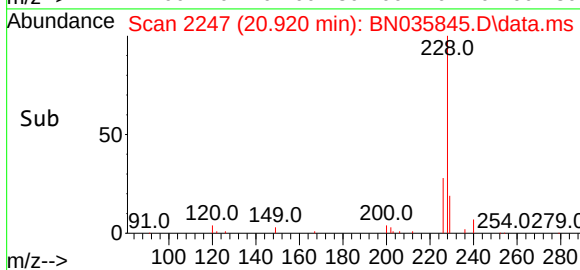
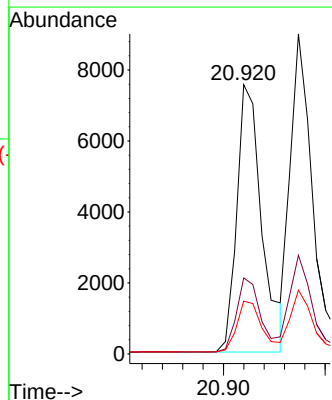
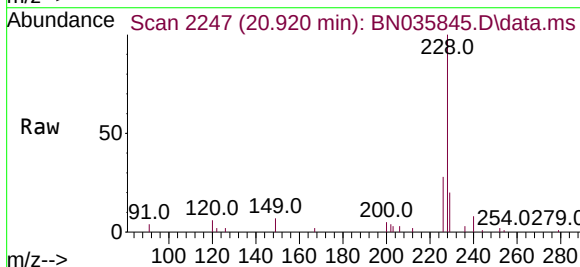
APPROVED

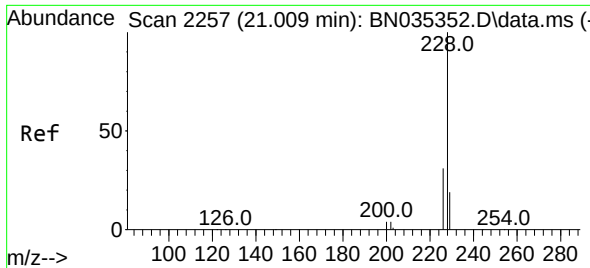
Reviewed By :Yogesh Patel 12/27/2024  
Supervised By :mohammad ahmed 12/27/2024



#32  
Benzo(a)anthracene  
Concen: 0.368 ng  
RT: 20.920 min Scan# 2247  
Delta R.T. -0.018 min  
Lab File: BN035845.D  
Acq: 26 Dec 2024 09:58

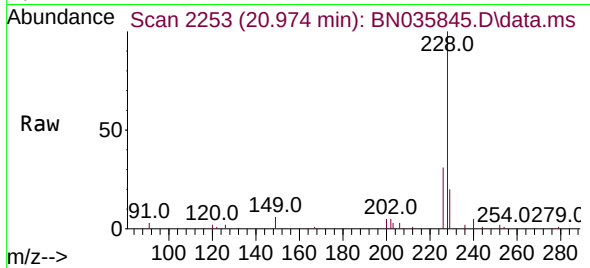
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 28.2  | 22.5  | 33.7  |
| 229     | 19.6  | 15.8  | 23.8  |





#33  
Chrysene  
Concen: 0.397 ng  
RT: 20.974 min Scan# 2100  
Delta R.T. -0.018 min  
Lab File: BN035845.D  
Acq: 26 Dec 2024 09:58

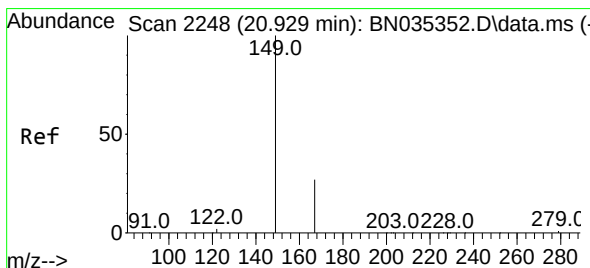
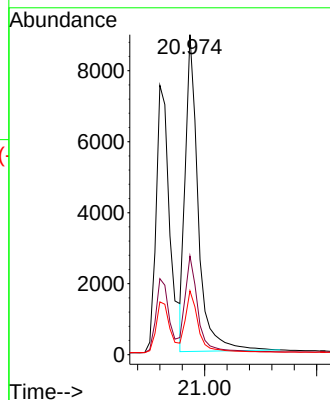
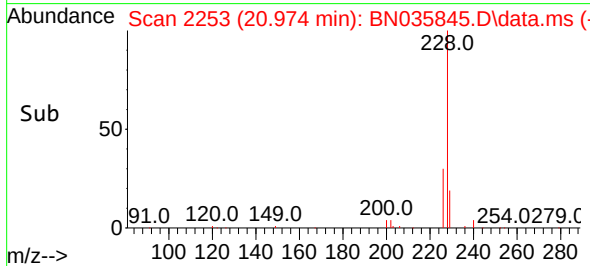
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4



Tgt Ion:228 Resp: 14214  
Ion Ratio Lower Upper  
228 100  
226 30.9 24.6 37.0  
229 20.0 15.9 23.9

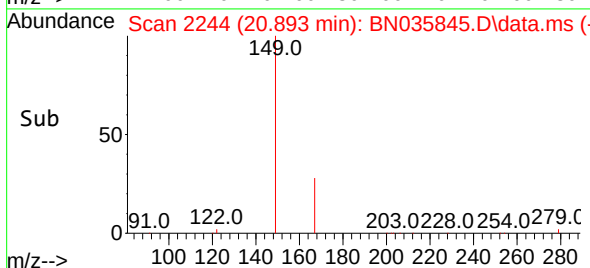
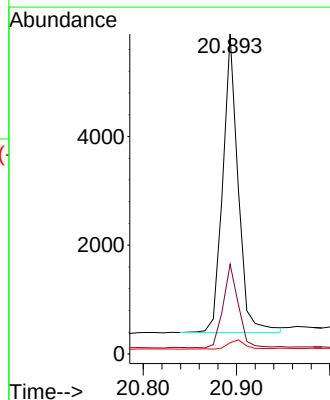
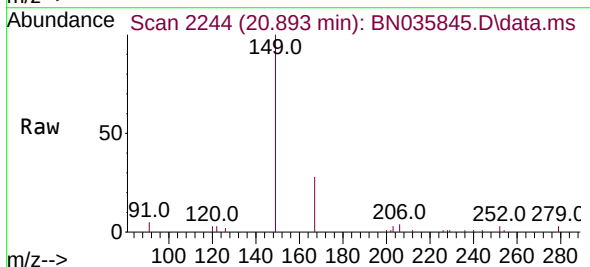
Manual Integrations  
**APPROVED**

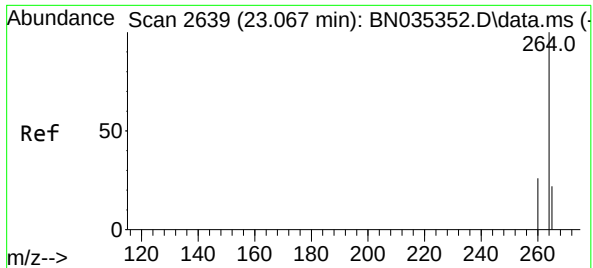
Reviewed By :Yogesh Patel 12/27/2024  
Supervised By :mohammad ahmed 12/27/2024



#34  
Bis(2-ethylhexyl)phthalate  
Concen: 0.458 ng  
RT: 20.893 min Scan# 2244  
Delta R.T. -0.018 min  
Lab File: BN035845.D  
Acq: 26 Dec 2024 09:58

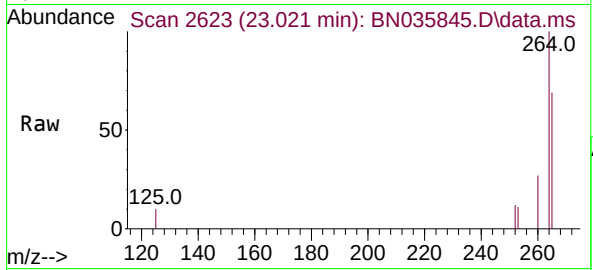
Tgt Ion:149 Resp: 6282  
Ion Ratio Lower Upper  
149 100  
167 27.6 22.2 33.4  
279 3.4 2.7 4.1





#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.021 min Scan# 2623  
Delta R.T. -0.021 min  
Lab File: BN035845.D  
Acq: 26 Dec 2024 09:58

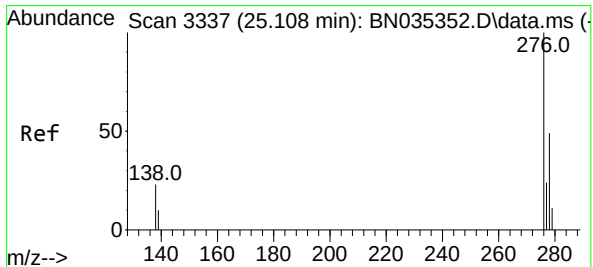
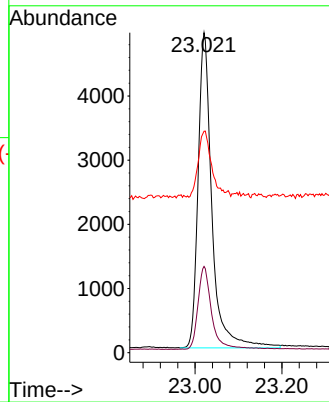
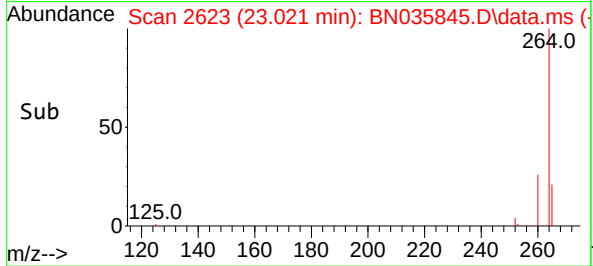
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4



Tgt Ion:264 Resp: 1081  
Ion Ratio Lower Upper  
264 100  
260 27.0 21.4 32.2  
265 69.2 40.2 60.4

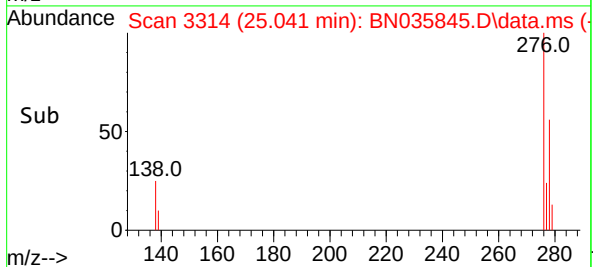
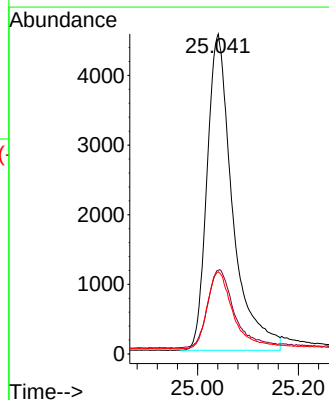
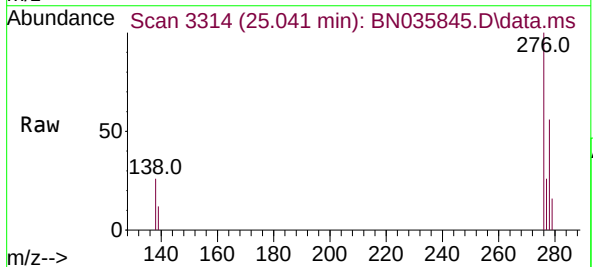
Manual Integrations  
**APPROVED**

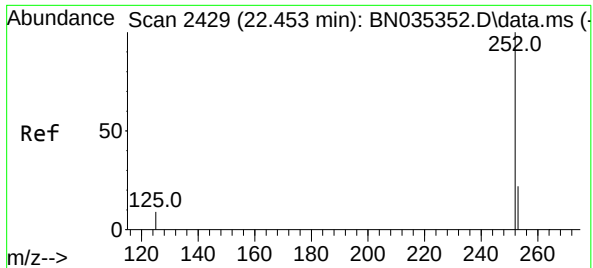
Reviewed By :Yogesh Patel 12/27/2024  
Supervised By :mohammad ahmed 12/27/2024



#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.377 ng  
RT: 25.041 min Scan# 3314  
Delta R.T. -0.026 min  
Lab File: BN035845.D  
Acq: 26 Dec 2024 09:58

Tgt Ion:276 Resp: 15946  
Ion Ratio Lower Upper  
276 100  
138 26.4 19.4 29.0  
277 25.7 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.494 ng

RT: 22.412 min Scan# 2415

Delta R.T. -0.018 min

Lab File: BN035845.D

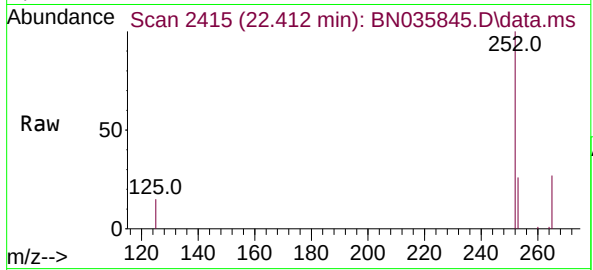
Acq: 26 Dec 2024 09:58

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4



Tgt Ion:252 Resp: 1956

Ion Ratio Lower Upper

252 100

253 25.9 19.6 29.4

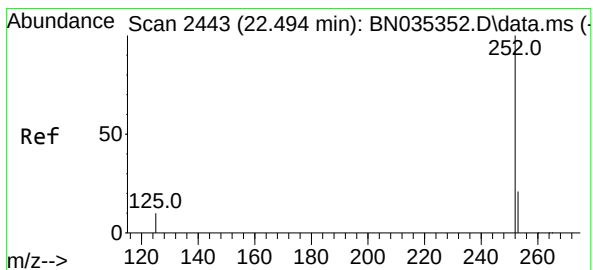
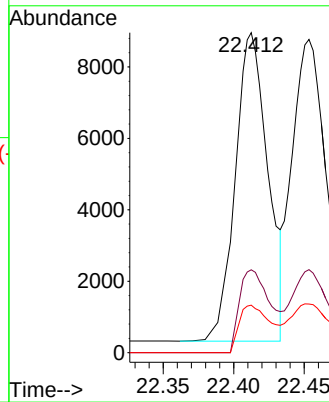
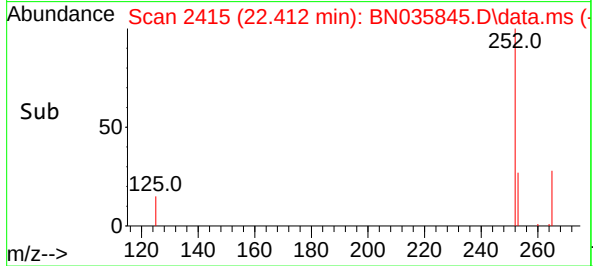
125 14.9 9.6 14.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/27/2024

Supervised By :mohammad ahmed 12/27/2024



#38

Benzo(k)fluoranthene

Concen: 0.423 ng m

RT: 22.453 min Scan# 2429

Delta R.T. -0.018 min

Lab File: BN035845.D

Acq: 26 Dec 2024 09:58

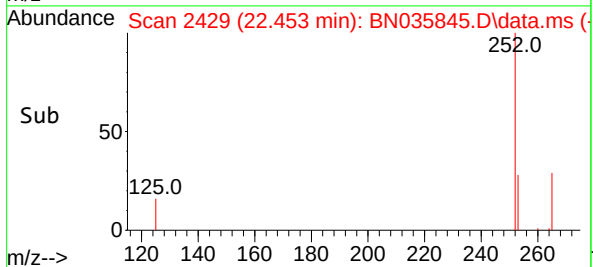
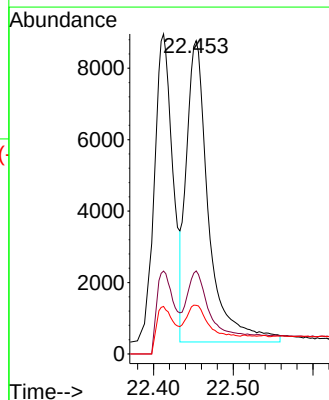
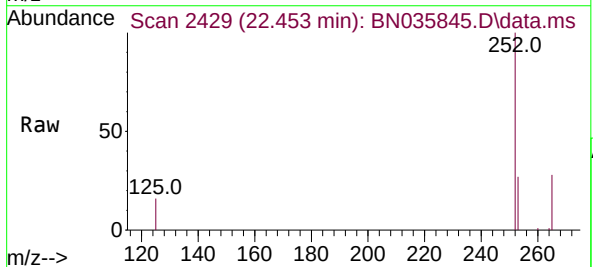
Tgt Ion:252 Resp: 16469

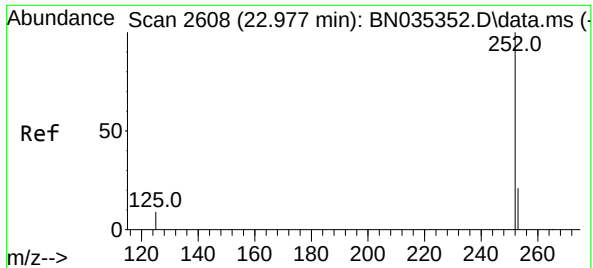
Ion Ratio Lower Upper

252 100

253 26.5 19.5 29.3

125 15.5 10.2 15.4





#39

Benzo(a)pyrene

Concen: 0.382 ng

RT: 22.933 min Scan# 21

Delta R.T. -0.018 min

Lab File: BN035845.D

Acq: 26 Dec 2024 09:58

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

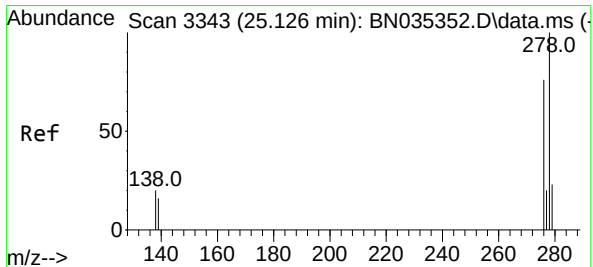
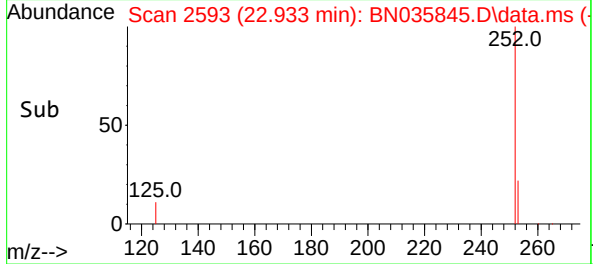
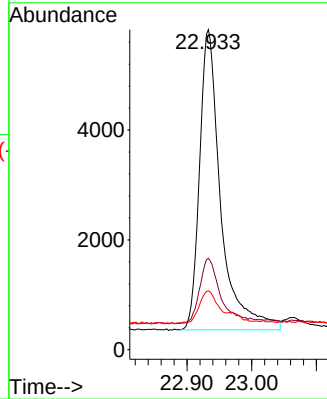
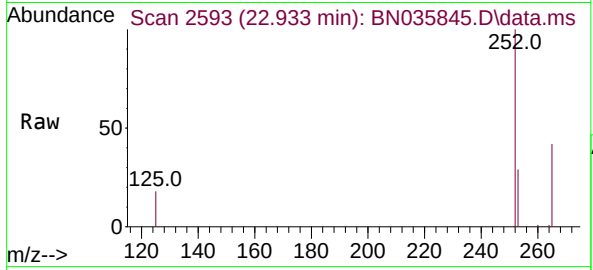
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 252   | Resp: | 1245 |
| Ion Ratio | Lower | Upper |      |
| 252       | 100   |       |      |
| 253       | 28.6  | 20.2  | 30.4 |
| 125       | 18.4  | 10.9  | 16.3 |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/27/2024

Supervised By :mohammad ahmed 12/27/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.380 ng

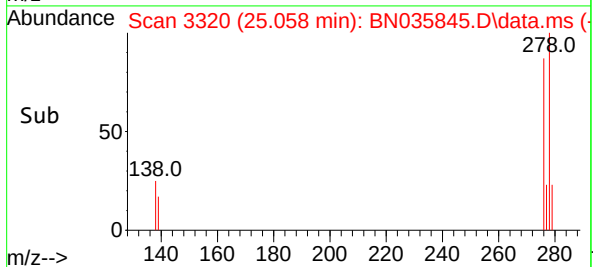
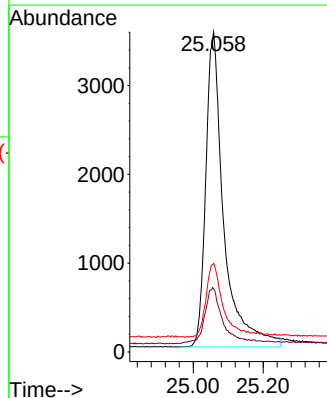
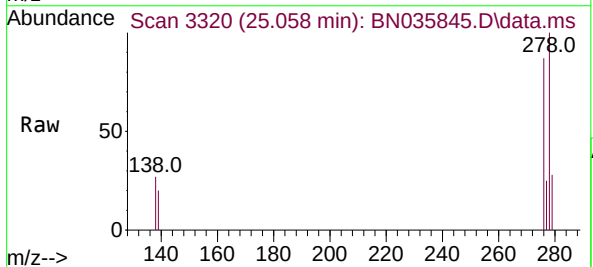
RT: 25.058 min Scan# 3320

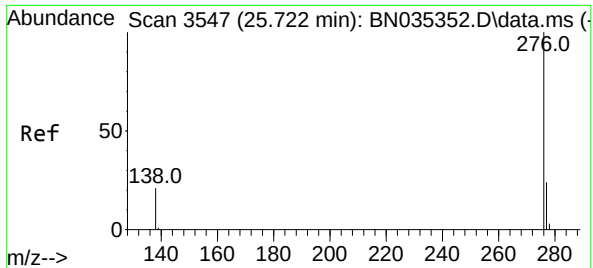
Delta R.T. -0.024 min

Lab File: BN035845.D

Acq: 26 Dec 2024 09:58

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 278   | Resp: | 12678 |
| Ion Ratio | Lower | Upper |       |
| 278       | 100   |       |       |
| 139       | 19.7  | 14.2  | 21.4  |
| 279       | 27.7  | 20.5  | 30.7  |





#41

Benzo(g,h,i)perylene

Concen: 0.419 ng

RT: 25.646 min Scan# 31

Delta R.T. -0.032 min

Lab File: BN035845.D

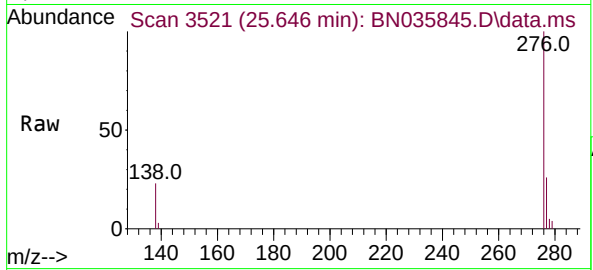
Acq: 26 Dec 2024 09:58

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4



Tgt Ion:276 Resp: 14614

Ion Ratio Lower Upper

276 100

277 25.7 19.9 29.9

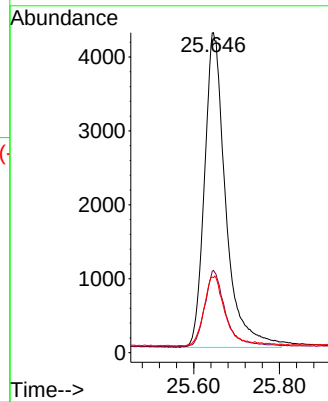
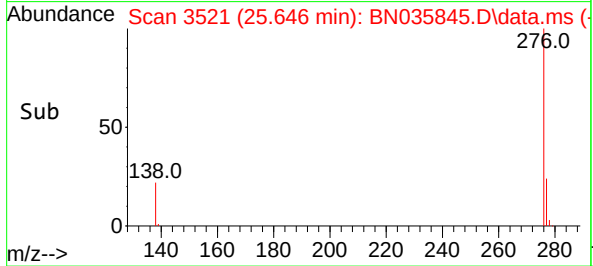
138 23.5 17.8 26.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/27/2024

Supervised By :mohammad ahmed 12/27/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN122624\  
 Data File : BN035845.D  
 Acq On : 26 Dec 2024 09:58  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 LabSampleId :  
 SSTDCCC0.4

Quant Time: Dec 27 00:40:11 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Dec 19 23:06:19 2024  
 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   | 183#  | -0.01    |
| 2       | 1,4-Dioxane                | 0.382 | 0.405 | -6.0  | 197#  | 0.00     |
| 3       | n-Nitrosodimethylamine     | 0.319 | 0.326 | -2.2  | 183#  | 0.00     |
| 4 S     | 2-Fluorophenol             | 1.001 | 1.006 | -0.5  | 181#  | -0.01    |
| 5 S     | Phenol-d6                  | 1.204 | 1.112 | 7.6   | 171#  | -0.02    |
| 6       | bis(2-Chloroethyl)ether    | 1.012 | 0.958 | 5.3   | 177#  | -0.02    |
| 7 I     | Naphthalene-d8             | 1.000 | 1.000 | 0.0   | 178#  | -0.02    |
| 8 S     | Nitrobenzene-d5            | 0.244 | 0.298 | -22.1 | 226#  | -0.01    |
| 9       | Naphthalene                | 1.055 | 1.013 | 4.0   | 172#  | -0.02    |
| 10      | Hexachlorobutadiene        | 0.243 | 0.252 | -3.7  | 182#  | -0.02    |
| 11 SURR | 2-Methylnaphthalene-d10    | 0.626 | 0.545 | 12.9  | 157#  | -0.02    |
| 12      | 2-Methylnaphthalene        | 0.755 | 0.637 | 15.6  | 154#  | -0.02    |
| 13 I    | Acenaphthene-d10           | 1.000 | 1.000 | 0.0   | 142   | -0.02    |
| 14 S    | 2,4,6-Tribromophenol       | 0.284 | 0.248 | 12.7  | 137   | -0.02    |
| 15 S    | 2-Fluorobiphenyl           | 1.512 | 1.504 | 0.5   | 141   | -0.02    |
| 16      | Acenaphthylene             | 1.680 | 1.548 | 7.9   | 138   | -0.02    |
| 17      | Acenaphthene               | 1.115 | 1.057 | 5.2   | 138   | -0.02    |
| 18      | Fluorene                   | 1.596 | 1.397 | 12.5  | 128   | -0.02    |
| 19 I    | Phenanthrene-d10           | 1.000 | 1.000 | 0.0   | 119   | -0.01    |
| 20      | 4,6-Dinitro-2-methylphenol | 0.039 | 0.047 | -20.5 | 156#  | -0.02    |
| 21      | 4-Bromophenyl-phenylether  | 0.234 | 0.217 | 7.3   | 114   | -0.02    |
| 22      | Hexachlorobenzene          | 0.275 | 0.309 | -12.4 | 134   | -0.02    |
| 23      | Atrazine                   | 0.167 | 0.164 | 1.8   | 126   | -0.01    |
| 24      | Pentachlorophenol          | 0.120 | 0.123 | -2.5  | 153#  | -0.01    |
| 25      | Phenanthrene               | 1.099 | 1.030 | 6.3   | 115   | -0.02    |
| 26      | Anthracene                 | 0.994 | 0.888 | 10.7  | 112   | -0.01    |
| 27 SURR | Fluoranthene-d10           | 1.134 | 0.991 | 12.6  | 109   | -0.02    |
| 28      | Fluoranthene               | 1.481 | 1.287 | 13.1  | 108   | -0.01    |
| 29 I    | Chrysene-d12               | 1.000 | 1.000 | 0.0   | 104   | -0.02    |
| 30      | Pyrene                     | 1.477 | 1.538 | -4.1  | 109   | -0.02    |
| 31 S    | Terphenyl-d14              | 0.789 | 0.784 | 0.6   | 103   | -0.01    |
| 32      | Benzo(a)anthracene         | 1.399 | 1.289 | 7.9   | 99    | -0.02    |
| 33      | Chrysene                   | 1.443 | 1.431 | 0.8   | 104   | -0.02    |
| 34      | Bis(2-ethylhexyl)phthalate | 0.553 | 0.633 | -14.5 | 128   | -0.02    |
| 35 I    | Perylene-d12               | 1.000 | 1.000 | 0.0   | 100   | -0.02    |
| 36      | Indeno(1,2,3-cd)pyrene     | 1.564 | 1.474 | 5.8   | 96    | -0.03    |
| 37      | Benzo(b)fluoranthene       | 1.463 | 1.809 | -23.7 | 137   | -0.02    |
| 38      | Benzo(k)fluoranthene       | 1.440 | 1.523 | -5.8  | 108   | -0.02    |
| 39 C    | Benzo(a)pyrene             | 1.205 | 1.152 | 4.4   | 100   | -0.02    |
| 40      | Dibenzo(a,h)anthracene     | 1.234 | 1.172 | 5.0   | 98    | -0.02    |
| 41      | Benzo(g,h,i)perylene       | 1.289 | 1.351 | -4.8  | 108   | -0.03    |

(#) = Out of Range

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



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN122624\  
 Data File : BN035845.D  
 Acq On : 26 Dec 2024 09:58  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 LabSampleId :  
 SSTDCCC0.4

Quant Time: Dec 27 00:40:11 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Dec 19 23:06:19 2024  
 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   | 183   | -0.01    |
| 2       | 1,4-Dioxane                | 0.400  | 0.423 | -5.7  | 197   | 0.00     |
| 3       | n-Nitrosodimethylamine     | 0.400  | 0.409 | -2.2  | 183   | 0.00     |
| 4 S     | 2-Fluorophenol             | 0.400  | 0.402 | -0.5  | 181   | -0.01    |
| 5 S     | Phenol-d6                  | 0.400  | 0.369 | 7.8   | 171   | -0.02    |
| 6       | bis(2-Chloroethyl)ether    | 0.400  | 0.379 | 5.3   | 177   | -0.02    |
| 7 I     | Naphthalene-d8             | 0.400  | 0.400 | 0.0   | 178   | -0.02    |
| 8 S     | Nitrobenzene-d5            | 0.400  | 0.488 | -22.0 | 226   | -0.01    |
| 9       | Naphthalene                | 0.400  | 0.384 | 4.0   | 172   | -0.02    |
| 10      | Hexachlorobutadiene        | 0.400  | 0.415 | -3.7  | 182   | -0.02    |
| 11 SURR | 2-Methylnaphthalene-d10    | 0.400  | 0.348 | 13.0  | 157   | -0.02    |
| 12      | 2-Methylnaphthalene        | 0.400  | 0.337 | 15.8  | 154   | -0.02    |
| 13 I    | Acenaphthene-d10           | 0.400  | 0.400 | 0.0   | 142   | -0.02    |
| 14 S    | 2,4,6-Tribromophenol       | 0.400  | 0.350 | 12.5  | 137   | -0.02    |
| 15 S    | 2-Fluorobiphenyl           | 0.400  | 0.398 | 0.5   | 141   | -0.02    |
| 16      | Acenaphthylene             | 0.400  | 0.369 | 7.8   | 138   | -0.02    |
| 17      | Acenaphthene               | 0.400  | 0.379 | 5.3   | 138   | -0.02    |
| 18      | Fluorene                   | 0.400  | 0.350 | 12.5  | 128   | -0.02    |
| 19 I    | Phenanthrene-d10           | 0.400  | 0.400 | 0.0   | 119   | -0.01    |
| 20      | 4,6-Dinitro-2-methylphenol | 0.400  | 0.475 | -18.7 | 156   | -0.02    |
| 21      | 4-Bromophenyl-phenylether  | 0.400  | 0.371 | 7.3   | 114   | -0.02    |
| 22      | Hexachlorobenzene          | 0.400  | 0.450 | -12.5 | 134   | -0.02    |
| 23      | Atrazine                   | 0.400  | 0.393 | 1.8   | 126   | -0.01    |
| 24      | Pentachlorophenol          | 0.400  | 0.411 | -2.7  | 153   | -0.01    |
| 25      | Phenanthrene               | 0.400  | 0.375 | 6.3   | 115   | -0.02    |
| 26      | Anthracene                 | 0.400  | 0.358 | 10.5  | 112   | -0.01    |
| 27 SURR | Fluoranthene-d10           | 0.400  | 0.350 | 12.5  | 109   | -0.02    |
| 28      | Fluoranthene               | 0.400  | 0.347 | 13.3  | 108   | -0.01    |
| 29 I    | Chrysene-d12               | 0.400  | 0.400 | 0.0   | 104   | -0.02    |
| 30      | Pyrene                     | 0.400  | 0.417 | -4.2  | 109   | -0.02    |
| 31 S    | Terphenyl-d14              | 0.400  | 0.397 | 0.8   | 103   | -0.01    |
| 32      | Benzo(a)anthracene         | 0.400  | 0.368 | 8.0   | 99    | -0.02    |
| 33      | Chrysene                   | 0.400  | 0.397 | 0.8   | 104   | -0.02    |
| 34      | Bis(2-ethylhexyl)phthalate | 0.400  | 0.458 | -14.5 | 128   | -0.02    |
| 35 I    | Perylene-d12               | 0.400  | 0.400 | 0.0   | 100   | -0.02    |
| 36      | Indeno(1,2,3-cd)pyrene     | 0.400  | 0.377 | 5.8   | 96    | -0.03    |
| 37      | Benzo(b)fluoranthene       | 0.400  | 0.494 | -23.5 | 137   | -0.02    |
| 38      | Benzo(k)fluoranthene       | 0.400  | 0.423 | -5.7  | 108   | -0.02    |
| 39 C    | Benzo(a)pyrene             | 0.400  | 0.382 | 4.5   | 100   | -0.02    |
| 40      | Dibenzo(a,h)anthracene     | 0.400  | 0.380 | 5.0   | 98    | -0.02    |
| 41      | Benzo(g,h,i)perylene       | 0.400  | 0.419 | -4.7  | 108   | -0.03    |

(#) = Out of Range

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



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

7C

## SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P5284 SAS No.: P5284 SDG No.: P5284

Instrument ID: BNA\_N Calibration Date/Time: 12/26/2024 19:41

Lab File ID: BN035861.D Init. Calib. Date(s): 11/27/2024 11/27/2024

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 15:34 19:09

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

| COMPOUND                | RRF   | RRF0.4 | MIN<br>RRF | %D    | MAX%D |
|-------------------------|-------|--------|------------|-------|-------|
| 2-Methylnaphthalene-d10 | 0.626 | 0.551  |            | -12.0 | 50.0  |
| Fluoranthene-d10        | 1.134 | 0.922  |            | -18.7 | 50.0  |
| 2-Fluorophenol          | 1.001 | 0.931  |            | -7.0  | 50.0  |
| Phenol-d6               | 1.204 | 1.022  |            | -15.1 | 50.0  |
| Nitrobenzene-d5         | 0.244 | 0.306  |            | 25.4  | 50.0  |
| 2-Fluorobiphenyl        | 1.512 | 1.480  |            | -2.1  | 50.0  |
| 2,4,6-Tribromophenol    | 0.284 | 0.225  |            | -20.8 | 50.0  |
| Terphenyl-d14           | 0.789 | 0.898  |            | 13.8  | 50.0  |
| 1,4-Dioxane             | 0.382 | 0.394  |            | 3.1   | 50.0  |

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN122624\  
 Data File : BN035861.D  
 Acq On : 26 Dec 2024 19:41  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4EC

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 12/27/2024  
 Supervised By :mohammad ahmed 12/27/2024

Quant Time: Dec 27 00:42:36 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Dec 19 23:06:19 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.257  | 152  | 3087     | 0.400 | ng    | -0.01    |
| 7) Naphthalene-d8             | 9.999  | 136  | 7239     | 0.400 | ng    | -0.02    |
| 13) Acenaphthene-d10          | 13.914 | 164  | 4472     | 0.400 | ng    | -0.02    |
| 19) Phenanthrene-d10          | 16.686 | 188  | 9373     | 0.400 | ng    | #-0.01   |
| 29) Chrysene-d12              | 20.947 | 240  | 6021     | 0.400 | ng    | # 0.00   |
| 35) Perylene-d12              | 23.026 | 264  | 5699     | 0.400 | ng    | #-0.01   |
|                               |        |      |          |       |       |          |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 4.924  | 112  | 2874     | 0.372 | ng    | -0.01    |
| 5) Phenol-d6                  | 6.470  | 99   | 3155     | 0.340 | ng    | -0.02    |
| 8) Nitrobenzene-d5            | 8.397  | 82   | 2215m    | 0.501 | ng    | -0.01    |
| 11) 2-Methylnaphthalene-d10   | 11.605 | 152  | 3987     | 0.352 | ng    | -0.02    |
| 14) 2,4,6-Tribromophenol      | 15.443 | 330  | 1008     | 0.318 | ng    | -0.01    |
| 15) 2-Fluorobiphenyl          | 12.528 | 172  | 6619     | 0.392 | ng    | -0.02    |
| 27) Fluoranthene-d10          | 18.747 | 212  | 8643     | 0.325 | ng    | -0.01    |
| 31) Terphenyl-d14             | 19.379 | 244  | 5407     | 0.455 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| Target Compounds              |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 2.974  | 88   | 1215     | 0.412 | ng    | 96       |
| 3) n-Nitrosodimethylamine     | 3.271  | 42   | 1021     | 0.415 | ng    | # 90     |
| 6) bis(2-Chloroethyl)ether    | 6.708  | 93   | 2725     | 0.349 | ng    | 98       |
| 9) Naphthalene                | 10.052 | 128  | 7516     | 0.394 | ng    | 100      |
| 10) Hexachlorobutadiene       | 10.340 | 225  | 1992     | 0.452 | ng    | # 99     |
| 12) 2-Methylnaphthalene       | 11.682 | 142  | 4745     | 0.347 | ng    | 99       |
| 16) Acenaphthylene            | 13.625 | 152  | 6923     | 0.369 | ng    | 100      |
| 17) Acenaphthene              | 13.978 | 154  | 4776     | 0.383 | ng    | 99       |
| 18) Fluorene                  | 14.983 | 166  | 6478     | 0.363 | ng    | 99       |
| 20) 4,6-Dinitro-2-methylph... | 15.111 | 198  | 453      | 0.492 | ng    | # 67     |
| 21) 4-Bromophenyl-phenylether | 15.904 | 248  | 2071     | 0.378 | ng    | # 96     |
| 22) Hexachlorobenzene         | 15.991 | 284  | 3015     | 0.468 | ng    | 98       |
| 23) Atrazine                  | 16.202 | 200  | 1507     | 0.386 | ng    | 94       |
| 24) Pentachlorophenol         | 16.363 | 266  | 846      | 0.302 | ng    | # 84     |
| 25) Phenanthrene              | 16.736 | 178  | 9697     | 0.377 | ng    | 100      |
| 26) Anthracene                | 16.822 | 178  | 8100     | 0.348 | ng    | 99       |
| 28) Fluoranthene              | 18.780 | 202  | 11145    | 0.321 | ng    | 99       |
| 30) Pyrene                    | 19.147 | 202  | 11492    | 0.517 | ng    | 99       |
| 32) Benzo(a)anthracene        | 20.929 | 228  | 6901     | 0.328 | ng    | 99       |
| 33) Chrysene                  | 20.983 | 228  | 9578     | 0.441 | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 20.893 | 149  | 4069     | 0.489 | ng    | 99       |
| 36) Indeno(1,2,3-cd)pyrene    | 25.050 | 276  | 9030     | 0.405 | ng    | 98       |
| 37) Benzo(b)fluoranthene      | 22.418 | 252  | 11803    | 0.566 | ng    | # 92     |
| 38) Benzo(k)fluoranthene      | 22.459 | 252  | 9638     | 0.470 | ng    | # 90     |
| 39) Benzo(a)pyrene            | 22.939 | 252  | 6641     | 0.387 | ng    | # 82     |
| 40) Dibenzo(a,h)anthracene    | 25.070 | 278  | 6633     | 0.377 | ng    | # 91     |
| 41) Benzo(g,h,i)perylene      | 25.652 | 276  | 8300     | 0.452 | ng    | 95       |
| -----                         |        |      |          |       |       |          |

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

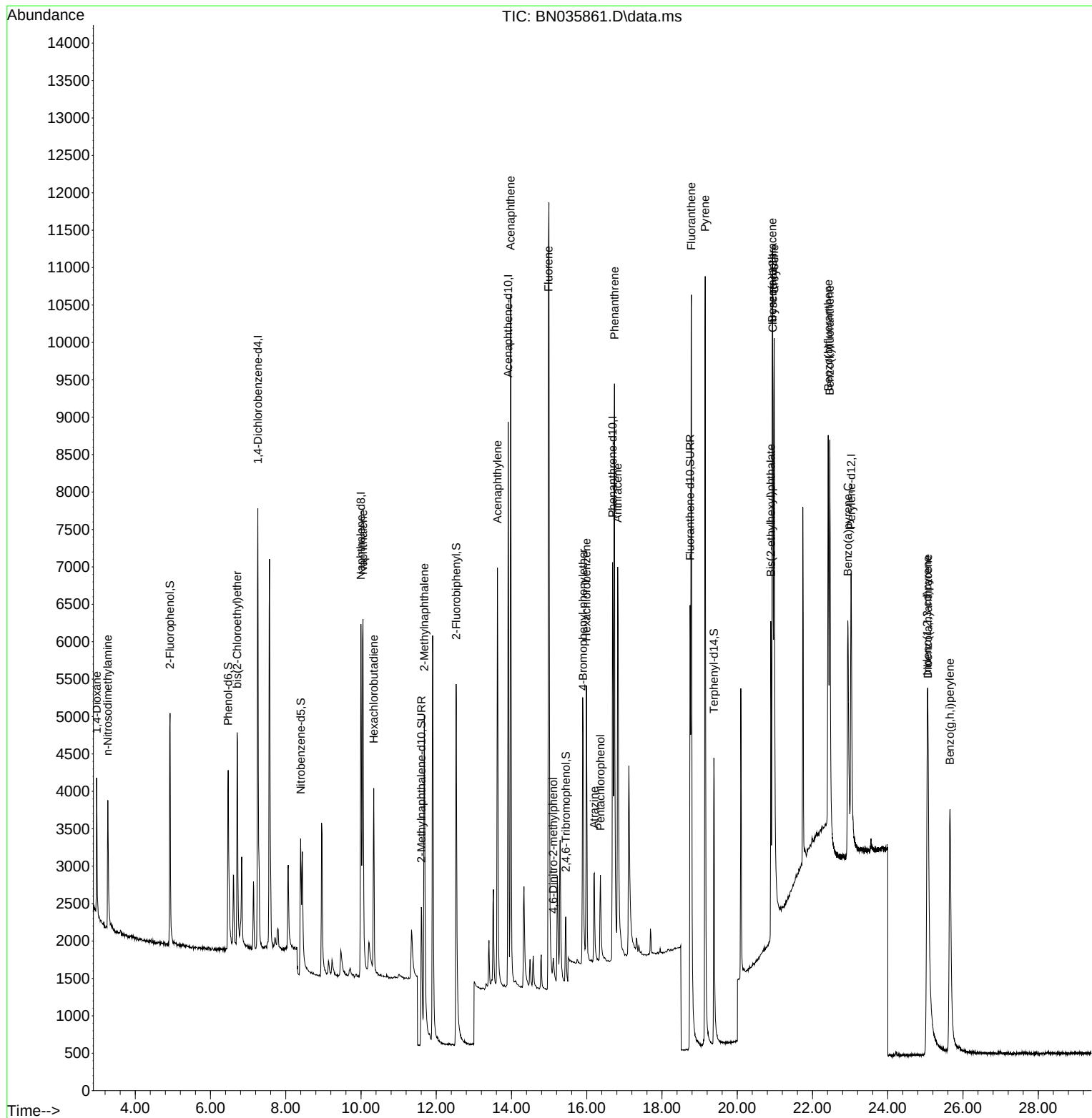
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Data File : BN035861.D  
Acq On : 26 Dec 2024 19:41  
Operator : RC/JU  
Sample : SSTDCCC0.4  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

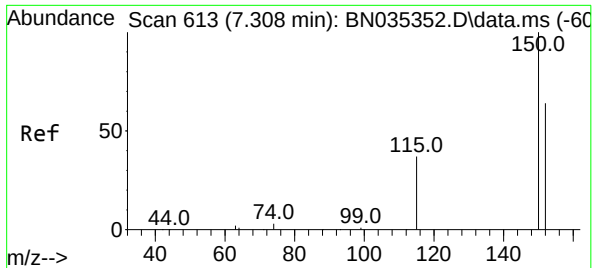
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

Manual Integrations  
**APPROVED**

Reviewed By :Yogesh Patel 12/27/2024  
Supervised By :mohammad ahmed 12/27/2024

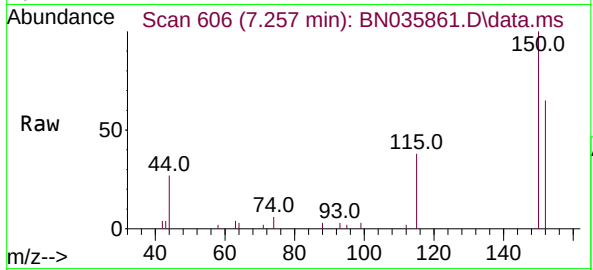
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Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Dec 19 23:06:19 2024  
Response via : Initial Calibration





#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.257 min Scan# 60  
Delta R.T. -0.015 min  
Lab File: BN035861.D  
Acq: 26 Dec 2024 19:41

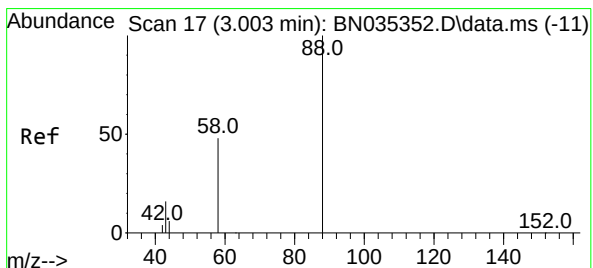
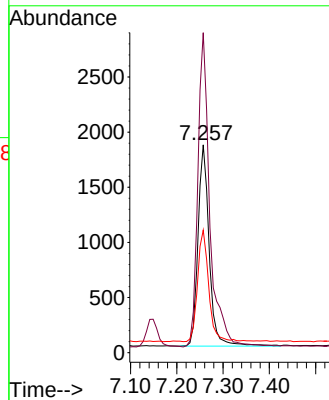
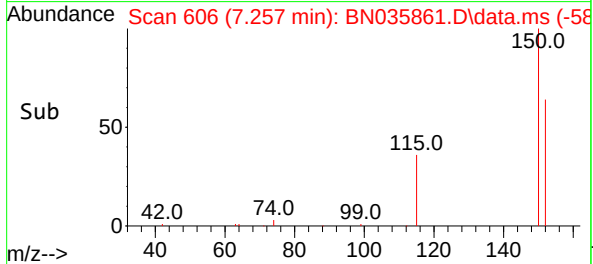
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC



Tgt Ion:152 Resp: 308  
Ion Ratio Lower Upper  
152 100  
150 154.0 124.0 186.0  
115 58.9 49.6 74.4

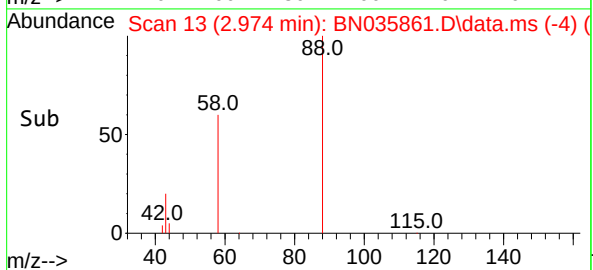
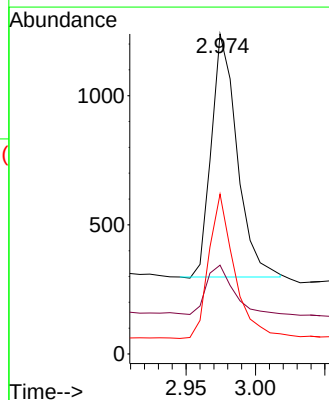
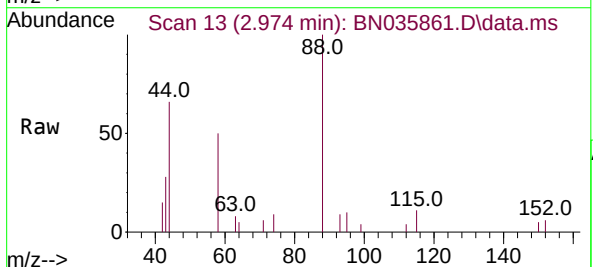
Manual Integrations  
APPROVED

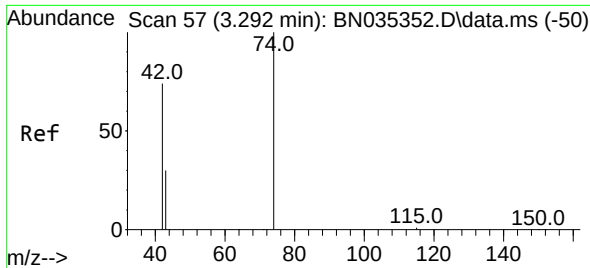
Reviewed By :Yogesh Patel 12/27/2024  
Supervised By :mohammad ahmed 12/27/2024



#2  
1,4-Dioxane  
Concen: 0.412 ng  
RT: 2.974 min Scan# 13  
Delta R.T. -0.008 min  
Lab File: BN035861.D  
Acq: 26 Dec 2024 19:41

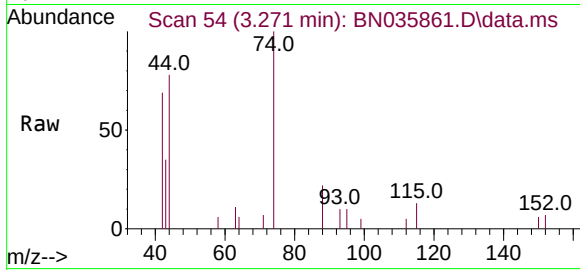
Tgt Ion: 88 Resp: 1215  
Ion Ratio Lower Upper  
88 100  
43 20.1 17.2 25.8  
58 59.1 44.5 66.7





#3  
n-Nitrosodimethylamine  
Concen: 0.415 ng  
RT: 3.271 min Scan# 54  
Delta R.T. -0.007 min  
Lab File: BN035861.D  
Acq: 26 Dec 2024 19:41

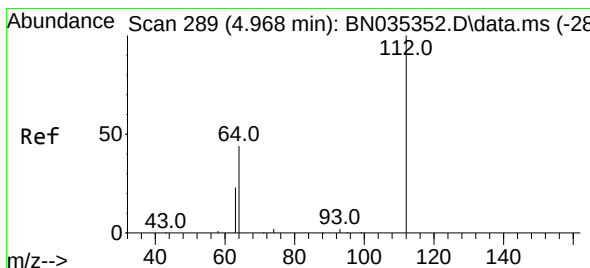
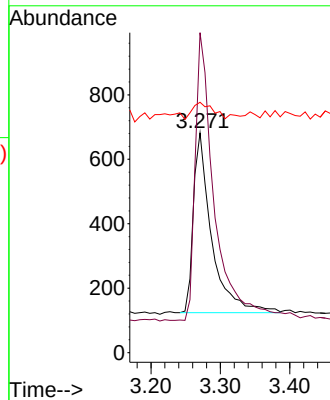
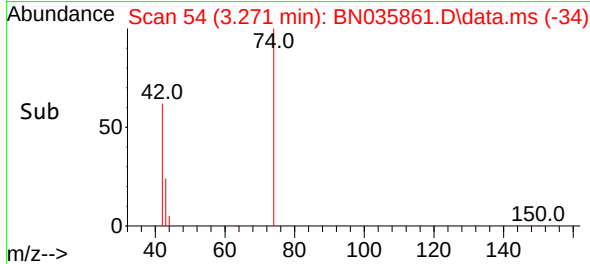
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC



Tgt Ion: 42 Resp: 102  
Ion Ratio Lower Upper  
42 100  
74 169.1 124.9 187.3  
44 10.6 2.2 3.4

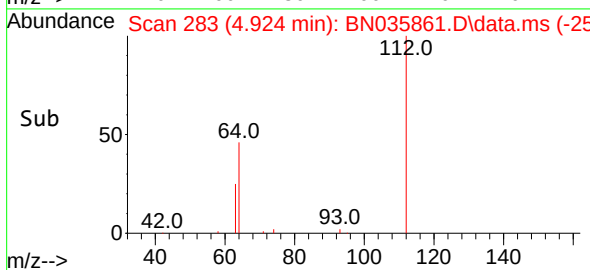
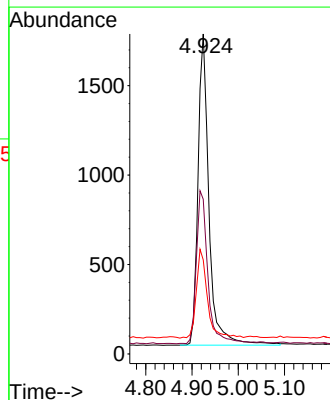
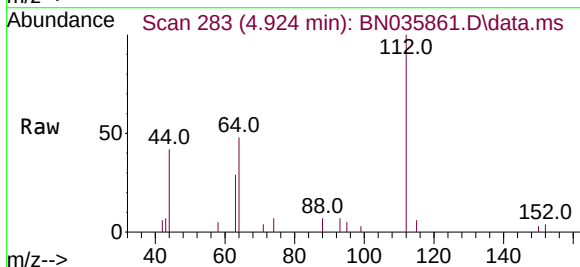
Manual Integrations  
APPROVED

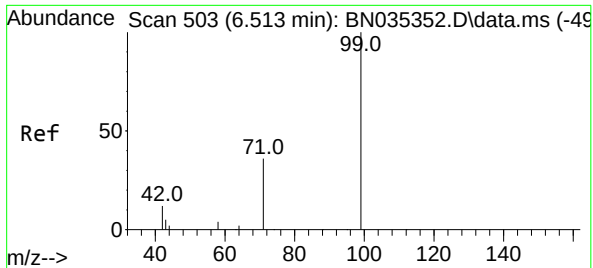
Reviewed By :Yogesh Patel 12/27/2024  
Supervised By :mohammad ahmed 12/27/2024



#4  
2-Fluorophenol  
Concen: 0.372 ng  
RT: 4.924 min Scan# 283  
Delta R.T. -0.015 min  
Lab File: BN035861.D  
Acq: 26 Dec 2024 19:41

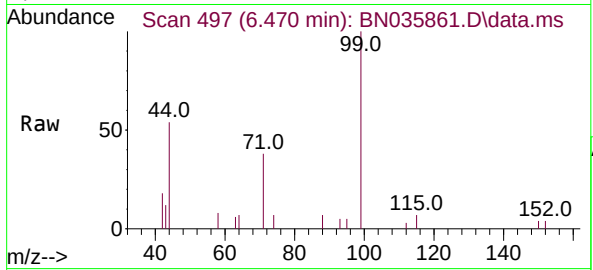
Tgt Ion:112 Resp: 2874  
Ion Ratio Lower Upper  
112 100  
64 51.6 39.8 59.8  
63 28.9 21.0 31.6





#5  
Phenol-d6  
Concen: 0.340 ng  
RT: 6.470 min Scan# 497  
Delta R.T. -0.022 min  
Lab File: BN035861.D  
Acq: 26 Dec 2024 19:41

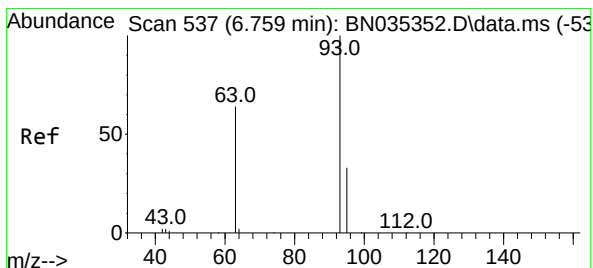
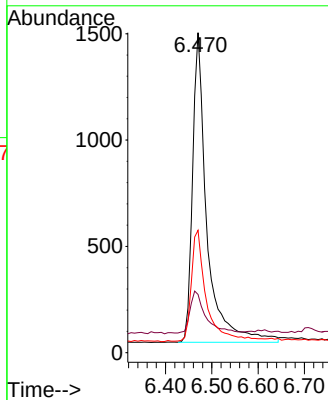
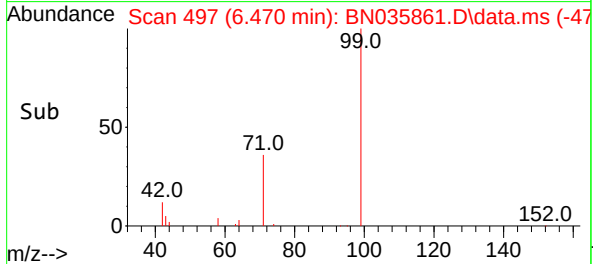
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC



Tgt Ion: 99 Resp: 315  
Ion Ratio Lower Upper  
99 100  
42 14.5 11.4 17.2  
71 37.3 29.3 43.9

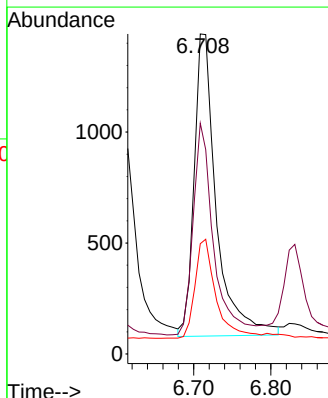
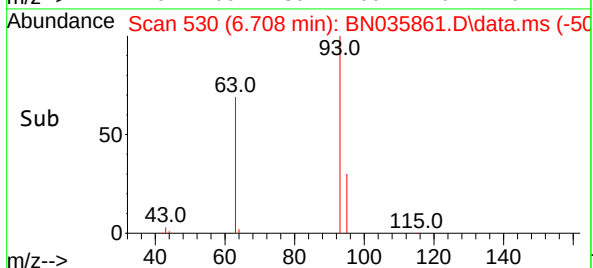
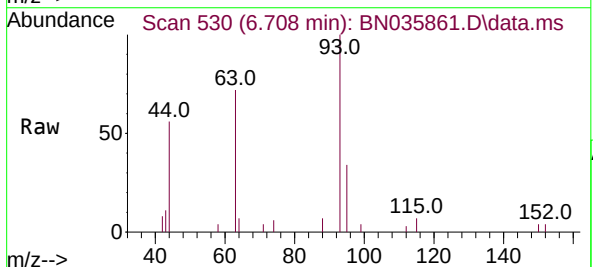
Manual Integrations  
**APPROVED**

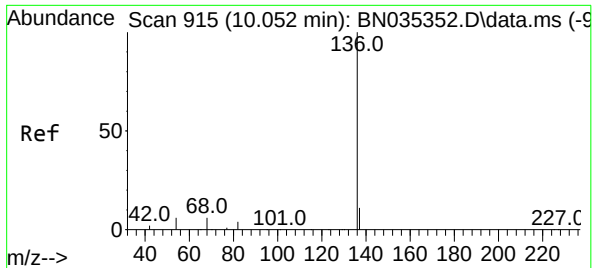
Reviewed By :Yogesh Patel 12/27/2024  
Supervised By :mohammad ahmed 12/27/2024



#6  
bis(2-Chloroethyl)ether  
Concen: 0.349 ng  
RT: 6.708 min Scan# 530  
Delta R.T. -0.022 min  
Lab File: BN035861.D  
Acq: 26 Dec 2024 19:41

Tgt Ion: 93 Resp: 2725  
Ion Ratio Lower Upper  
93 100  
63 64.1 50.4 75.6  
95 31.0 25.7 38.5





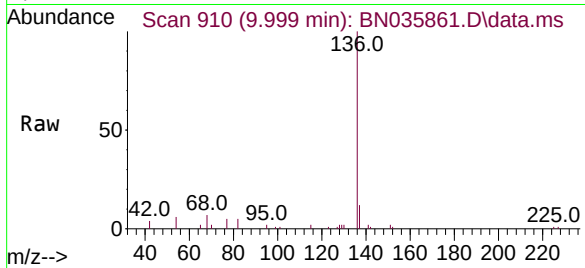
#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 9.999 min Scan# 915  
Delta R.T. -0.021 min  
Lab File: BN035861.D  
Acq: 26 Dec 2024 19:41

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC

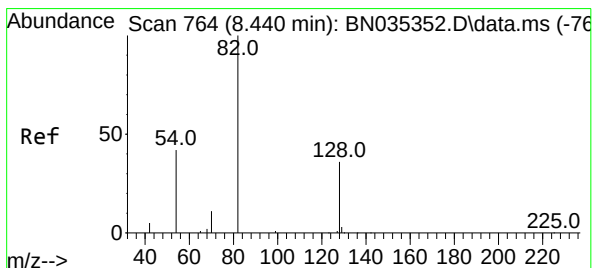
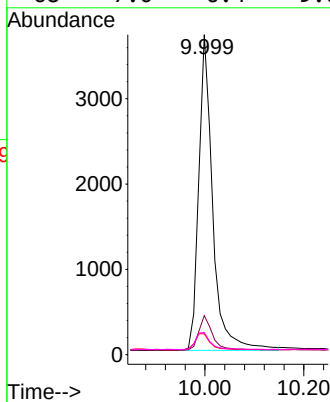
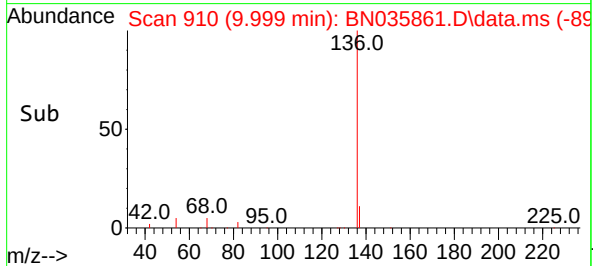


Tgt Ion:136 Resp: 7239  
Ion Ratio Lower Upper  
136 100  
137 12.2 10.2 15.2  
54 6.5 6.1 9.1  
68 7.0 6.4 9.6

Manual Integrations

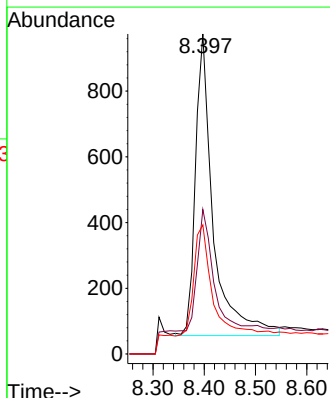
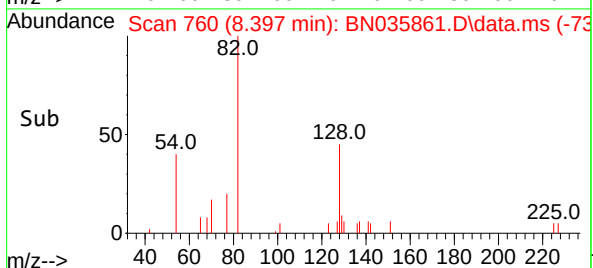
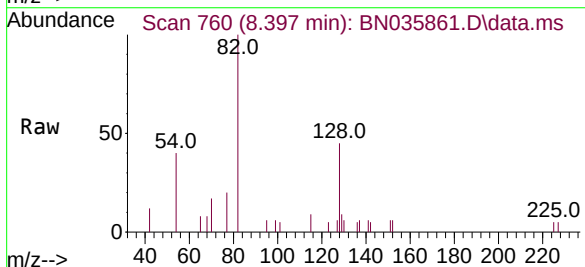
APPROVED

Reviewed By :Yogesh Patel 12/27/2024  
Supervised By :mohammad ahmed 12/27/2024

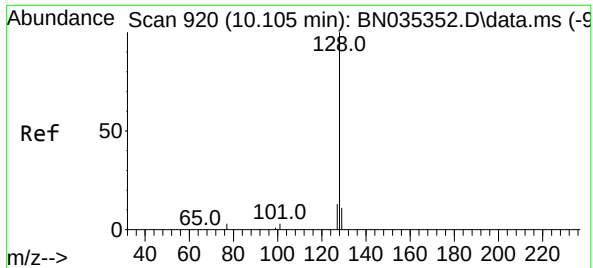


#8  
Nitrobenzene-d5  
Concen: 0.501 ng m  
RT: 8.397 min Scan# 760  
Delta R.T. -0.011 min  
Lab File: BN035861.D  
Acq: 26 Dec 2024 19:41

Tgt Ion: 82 Resp: 2215  
Ion Ratio Lower Upper  
82 100  
128 45.2 33.4 50.0  
54 40.3 36.7 55.1

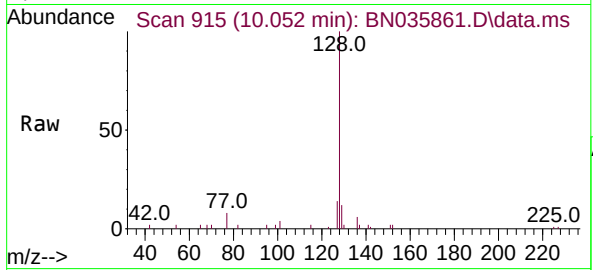






#9  
Naphthalene  
Concen: 0.394 ng  
RT: 10.052 min Scan# 915  
Delta R.T. -0.011 min  
Lab File: BN035861.D  
Acq: 26 Dec 2024 19:41

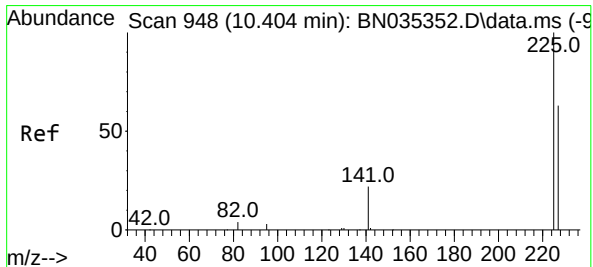
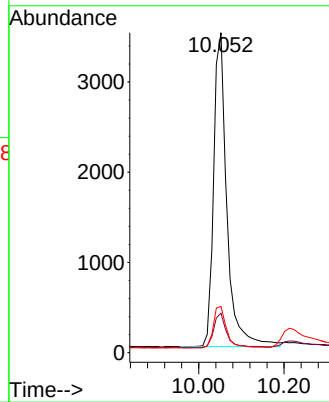
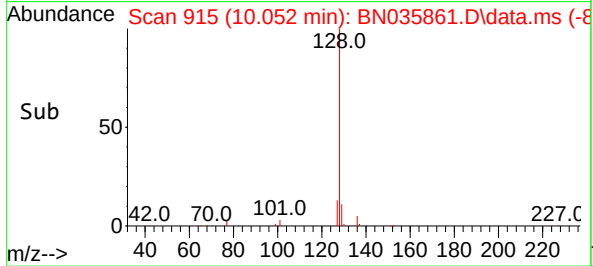
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC



Tgt Ion:128 Resp: 7510  
Ion Ratio Lower Upper  
128 100  
129 12.4 9.8 14.6  
127 14.5 11.4 17.2

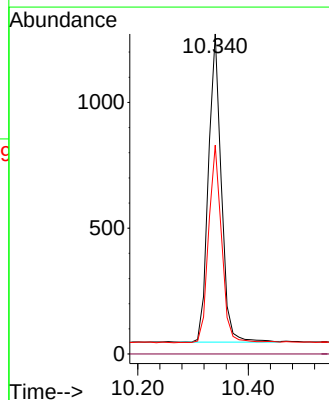
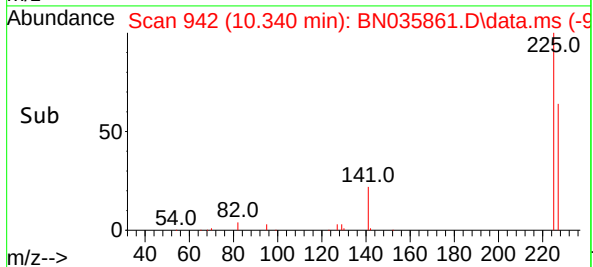
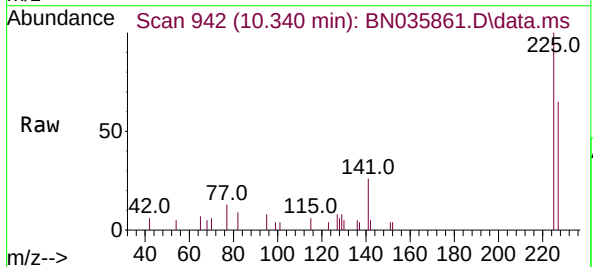
Manual Integrations  
**APPROVED**

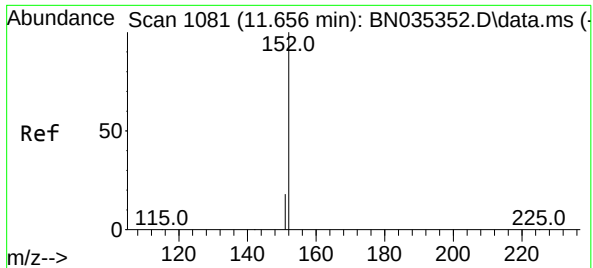
Reviewed By :Yogesh Patel 12/27/2024  
Supervised By :mohammad ahmed 12/27/2024



#10  
Hexachlorobutadiene  
Concen: 0.452 ng  
RT: 10.340 min Scan# 942  
Delta R.T. -0.021 min  
Lab File: BN035861.D  
Acq: 26 Dec 2024 19:41

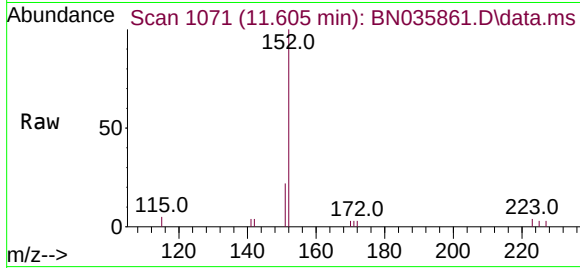
Tgt Ion:225 Resp: 1992  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 64.7 51.3 76.9





#11  
2-Methylnaphthalene-d10  
Concen: 0.352 ng  
RT: 11.605 min Scan# 1071  
Delta R.T. -0.015 min  
Lab File: BN035861.D  
Acq: 26 Dec 2024 19:41

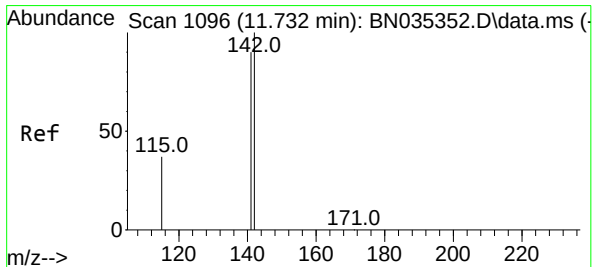
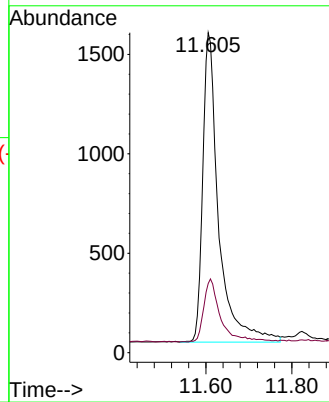
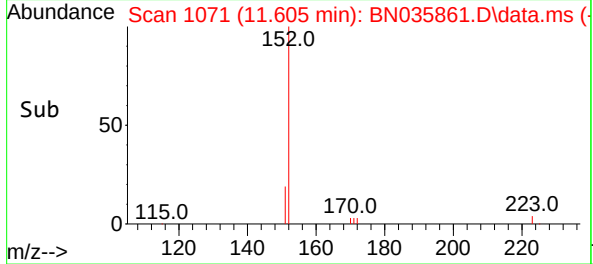
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC



Tgt Ion:152 Resp: 398  
Ion Ratio Lower Upper  
152 100  
151 21.5 16.6 25.0

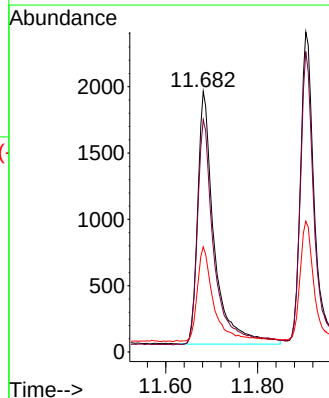
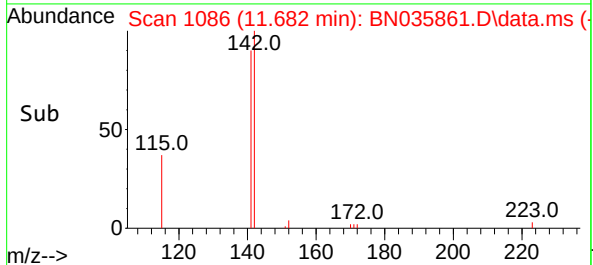
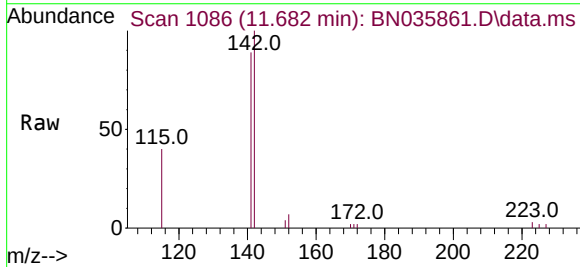
Manual Integrations  
**APPROVED**

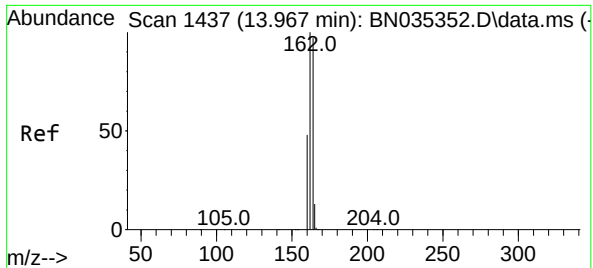
Reviewed By :Yogesh Patel 12/27/2024  
Supervised By :mohammad ahmed 12/27/2024



#12  
2-Methylnaphthalene  
Concen: 0.347 ng  
RT: 11.682 min Scan# 1086  
Delta R.T. -0.015 min  
Lab File: BN035861.D  
Acq: 26 Dec 2024 19:41

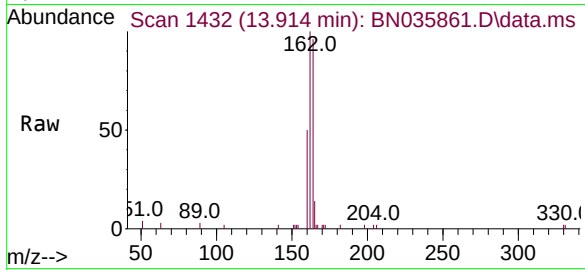
Tgt Ion:142 Resp: 4745  
Ion Ratio Lower Upper  
142 100  
141 89.2 72.2 108.4  
115 40.4 31.4 47.0





#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.914 min Scan# 1437  
Delta R.T. -0.021 min  
Lab File: BN035861.D  
Acq: 26 Dec 2024 19:41

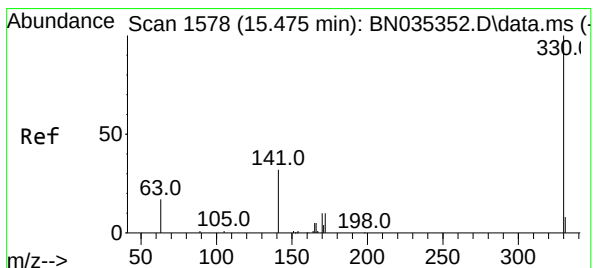
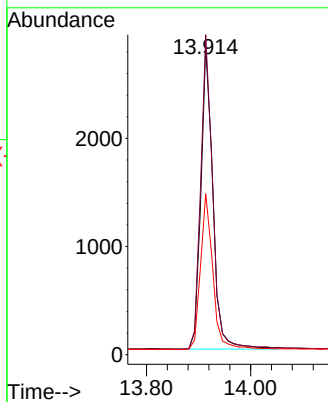
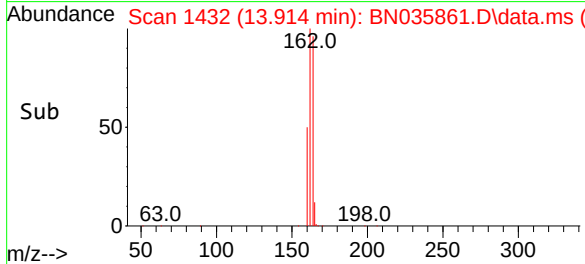
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC



Tgt Ion:164 Resp: 4472  
Ion Ratio Lower Upper  
164 100  
162 104.0 82.2 123.2  
160 52.3 40.1 60.1

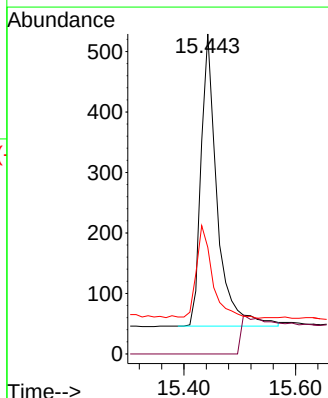
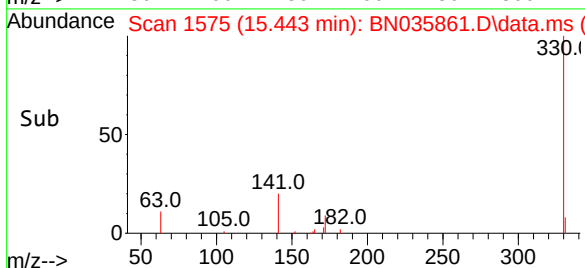
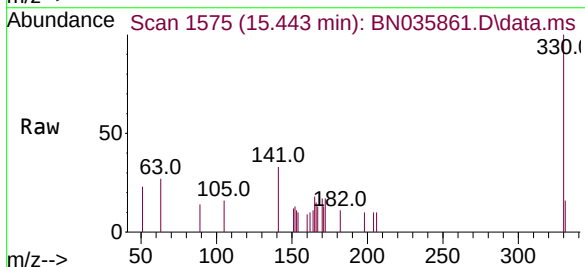
Manual Integrations  
**APPROVED**

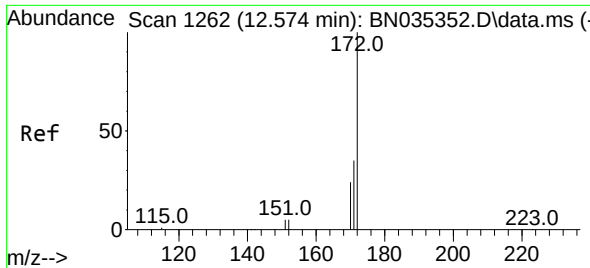
Reviewed By :Yogesh Patel 12/27/2024  
Supervised By :mohammad ahmed 12/27/2024



#14  
2,4,6-Tribromophenol  
Concen: 0.318 ng  
RT: 15.443 min Scan# 1575  
Delta R.T. -0.011 min  
Lab File: BN035861.D  
Acq: 26 Dec 2024 19:41

Tgt Ion:330 Resp: 1008  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 30.5 26.6 40.0





#15  
2-Fluorobiphenyl  
Concen: 0.392 ng  
RT: 12.528 min Scan# 11  
Delta R.T. -0.015 min  
Lab File: BN035861.D  
Acq: 26 Dec 2024 19:41

Instrument :

BNA\_N

ClientSampleId :

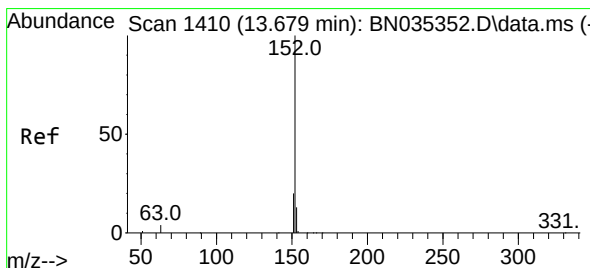
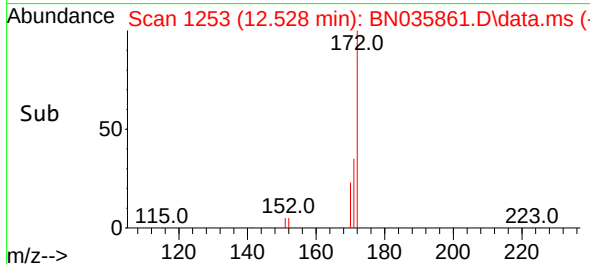
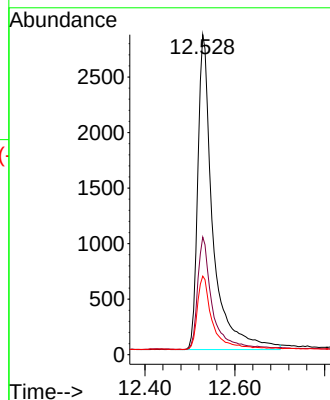
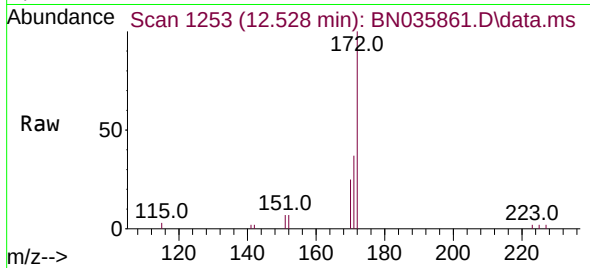
SSTDCCC0.4EC

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.8  | 29.0  | 43.4  |
| 170     | 24.5  | 19.8  | 29.8  |

Manual Integrations

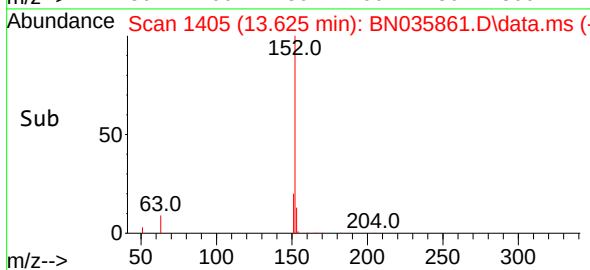
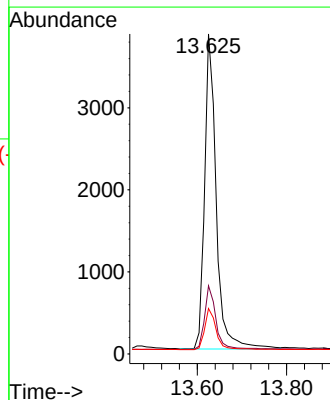
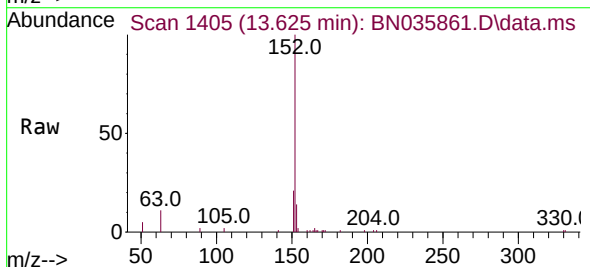
APPROVED

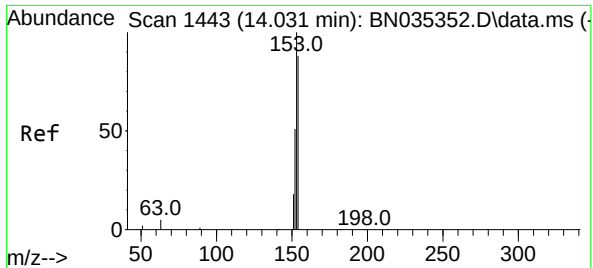
Reviewed By :Yogesh Patel 12/27/2024  
Supervised By :mohammad ahmed 12/27/2024



#16  
Acenaphthylene  
Concen: 0.369 ng  
RT: 13.625 min Scan# 1405  
Delta R.T. -0.021 min  
Lab File: BN035861.D  
Acq: 26 Dec 2024 19:41

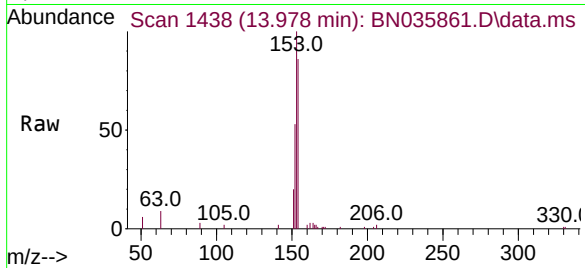
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 20.1  | 16.2  | 24.2  |
| 153     | 13.0  | 10.4  | 15.6  |





#17  
Acenaphthene  
Concen: 0.383 ng  
RT: 13.978 min Scan# 1443  
Delta R.T. -0.021 min  
Lab File: BN035861.D  
Acq: 26 Dec 2024 19:41

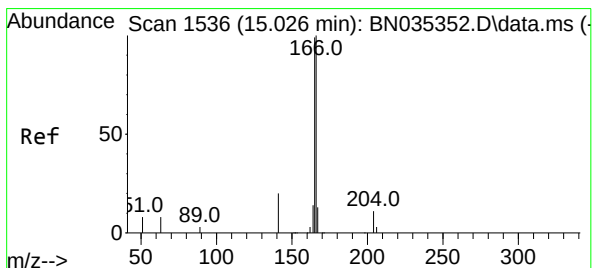
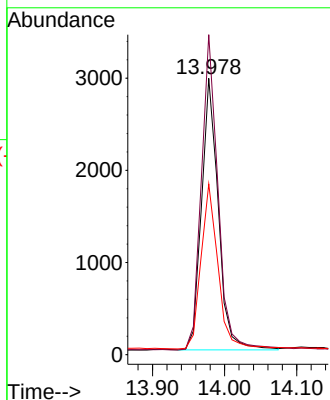
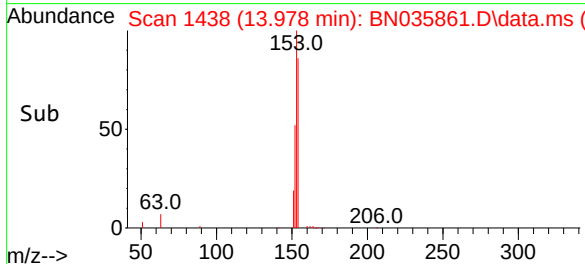
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC



Tgt Ion:154 Resp: 4770  
Ion Ratio Lower Upper  
154 100  
153 116.3 92.6 139.0  
152 62.6 49.0 73.6

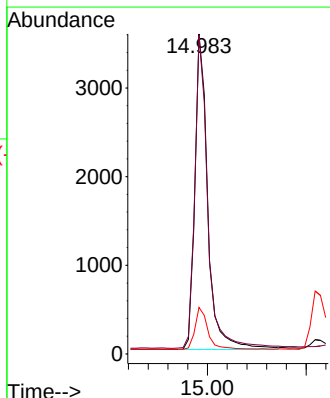
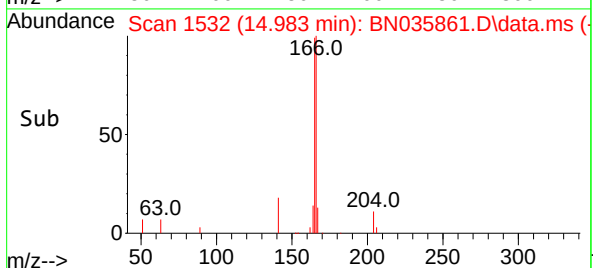
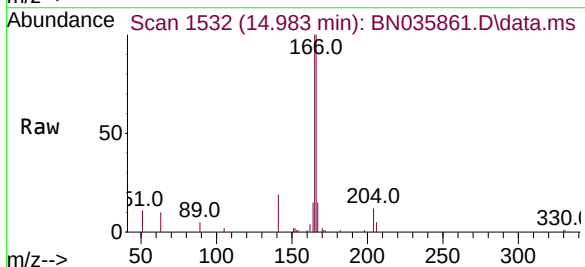
Manual Integrations  
**APPROVED**

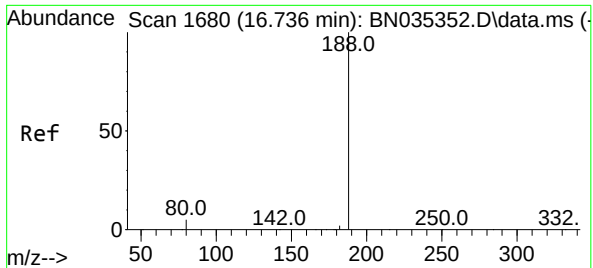
Reviewed By :Yogesh Patel 12/27/2024  
Supervised By :mohammad ahmed 12/27/2024



#18  
Fluorene  
Concen: 0.363 ng  
RT: 14.983 min Scan# 1532  
Delta R.T. -0.021 min  
Lab File: BN035861.D  
Acq: 26 Dec 2024 19:41

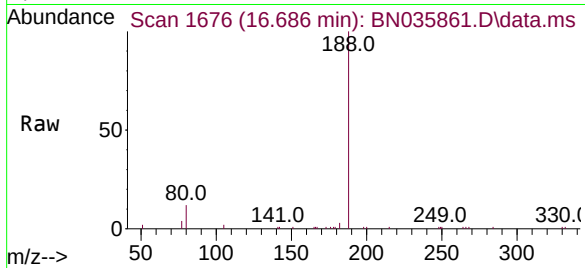
Tgt Ion:166 Resp: 6478  
Ion Ratio Lower Upper  
166 100  
165 98.7 79.7 119.5  
167 13.6 10.8 16.2





#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 16.686 min Scan# 1676  
Delta R.T. -0.012 min  
Lab File: BN035861.D  
Acq: 26 Dec 2024 19:41

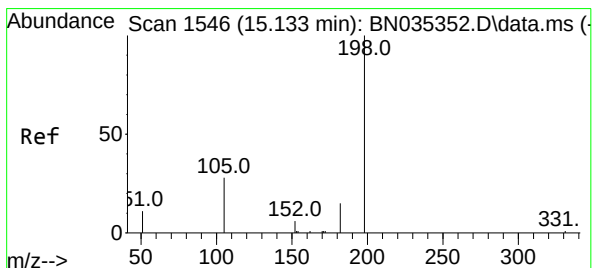
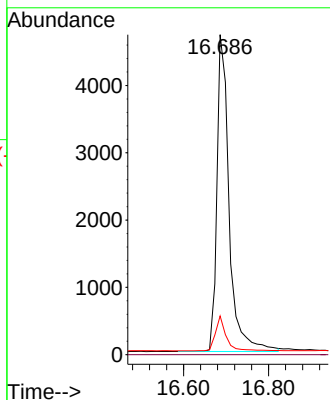
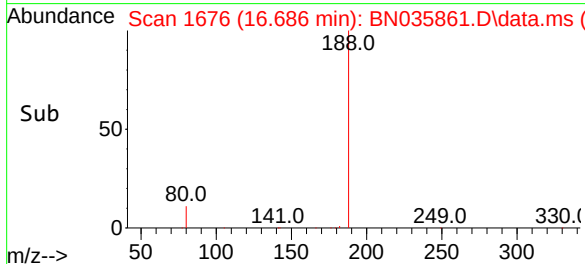
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC



Tgt Ion:188 Resp: 937  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 12.1 4.6 6.8

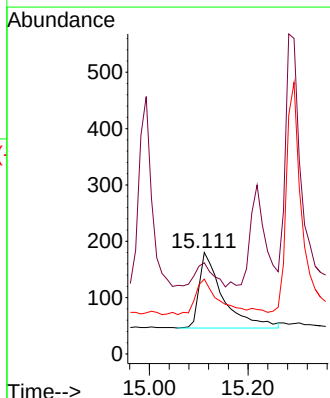
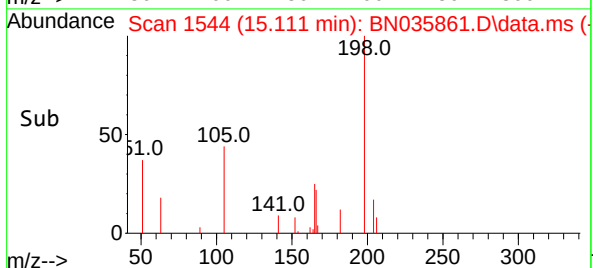
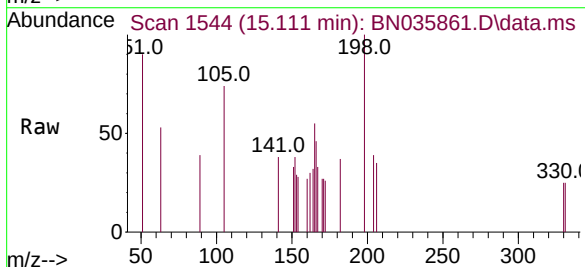
Manual Integrations  
**APPROVED**

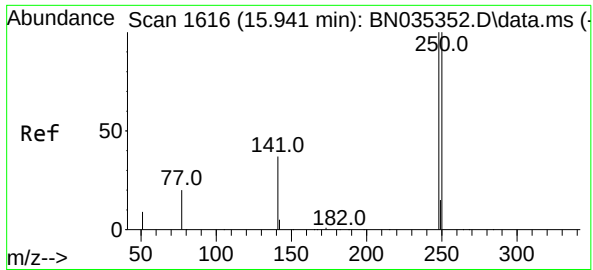
Reviewed By :Yogesh Patel 12/27/2024  
Supervised By :mohammad ahmed 12/27/2024



#20  
4,6-Dinitro-2-methylphenol  
Concen: 0.492 ng  
RT: 15.111 min Scan# 1544  
Delta R.T. -0.011 min  
Lab File: BN035861.D  
Acq: 26 Dec 2024 19:41

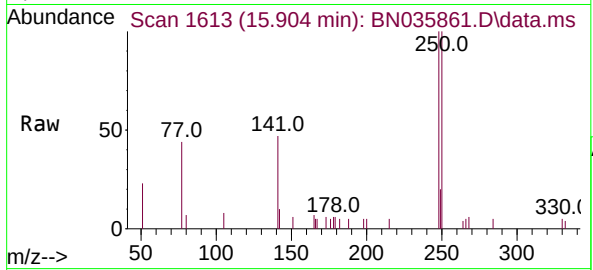
Tgt Ion:198 Resp: 453  
Ion Ratio Lower Upper  
198 100  
51 90.0 46.5 69.7#  
105 73.9 45.3 67.9#





#21  
4-Bromophenyl-phenylether  
Concen: 0.378 ng  
RT: 15.904 min Scan# 1613  
Delta R.T. -0.012 min  
Lab File: BN035861.D  
Acq: 26 Dec 2024 19:41

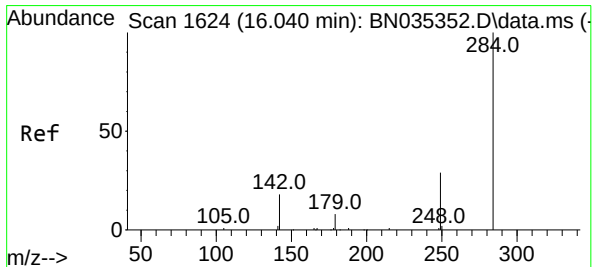
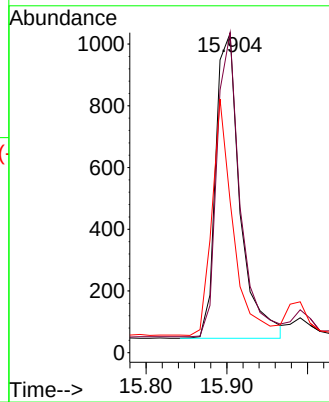
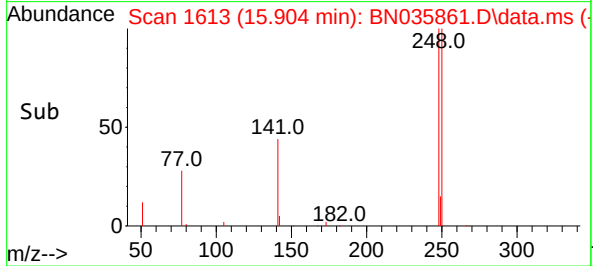
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC



Tgt Ion:248 Resp: 207  
Ion Ratio Lower Upper  
248 100  
250 100.2 80.6 120.8  
141 47.4 31.5 47.3

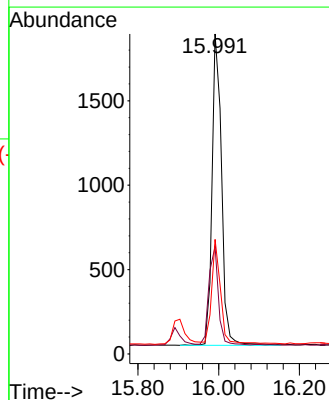
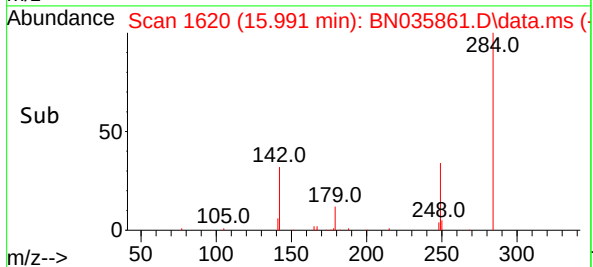
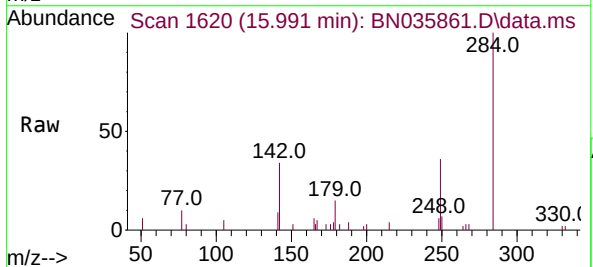
Manual Integrations  
**APPROVED**

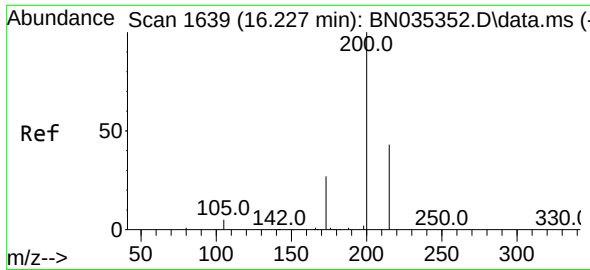
Reviewed By :Yogesh Patel 12/27/2024  
Supervised By :mohammad ahmed 12/27/2024



#22  
Hexachlorobenzene  
Concen: 0.468 ng  
RT: 15.991 min Scan# 1620  
Delta R.T. -0.025 min  
Lab File: BN035861.D  
Acq: 26 Dec 2024 19:41

Tgt Ion:284 Resp: 3015  
Ion Ratio Lower Upper  
284 100  
142 31.5 26.7 40.1  
249 31.2 24.6 36.8





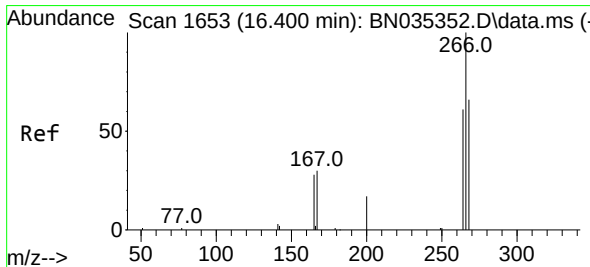
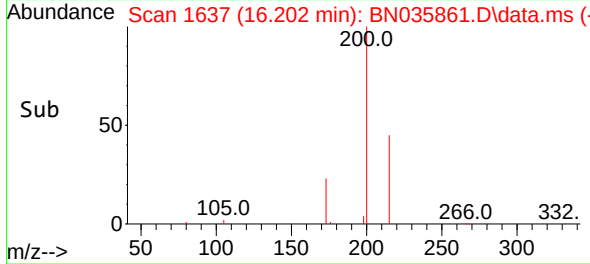
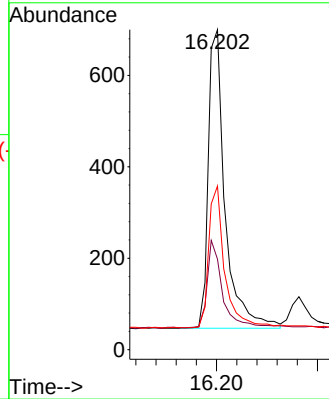
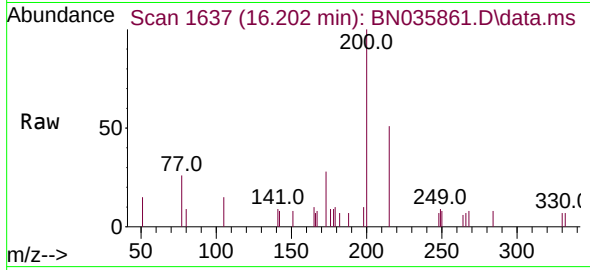
#23  
Atrazine  
Concen: 0.386 ng  
RT: 16.202 min Scan# 1637  
Delta R.T. -0.000 min  
Lab File: BN035861.D  
Acq: 26 Dec 2024 19:41

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

Tgt Ion:200 Resp: 150  
Ion Ratio Lower Upper  
200 100  
173 28.3 24.1 36.1  
215 51.1 36.9 55.3

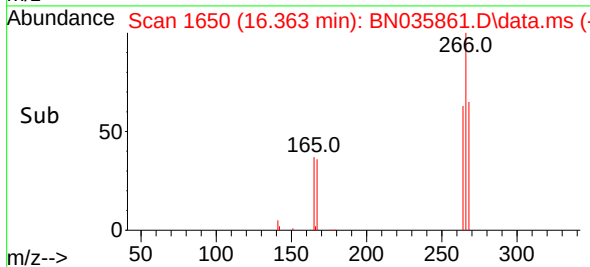
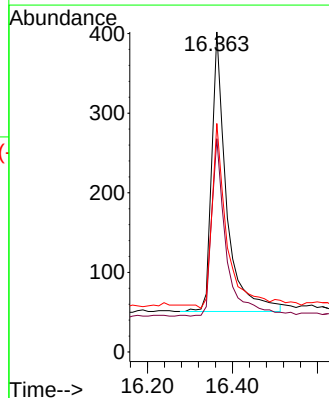
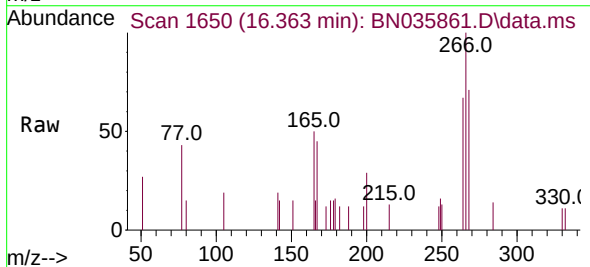
Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 12/27/2024  
Supervised By :mohammad ahmed 12/27/2024

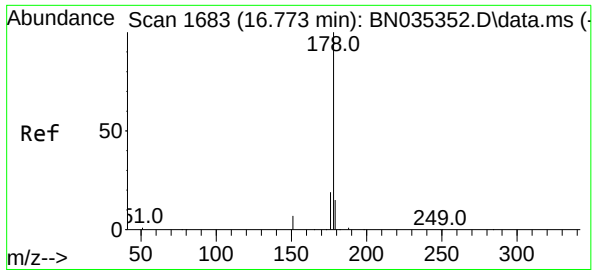


#24  
Pentachlorophenol  
Concen: 0.302 ng  
RT: 16.363 min Scan# 1650  
Delta R.T. -0.012 min  
Lab File: BN035861.D  
Acq: 26 Dec 2024 19:41

Tgt Ion:266 Resp: 846  
Ion Ratio Lower Upper  
266 100  
264 62.3 42.3 63.5  
268 67.7 43.3 64.9#

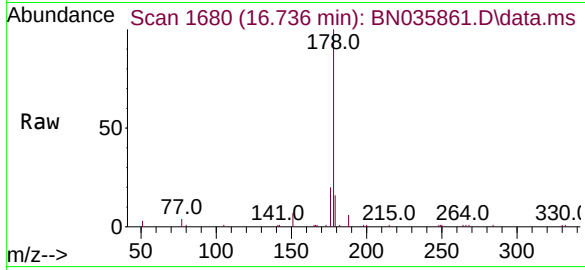






#25  
Phenanthrene  
Concen: 0.377 ng  
RT: 16.736 min Scan# 1683  
Delta R.T. -0.012 min  
Lab File: BN035861.D  
Acq: 26 Dec 2024 19:41

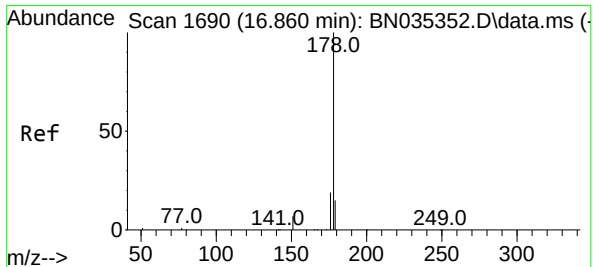
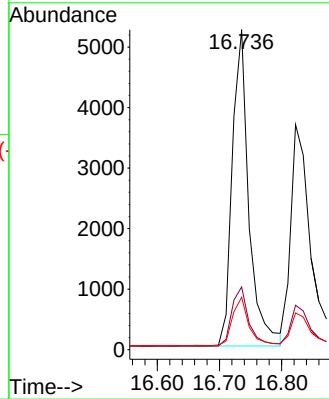
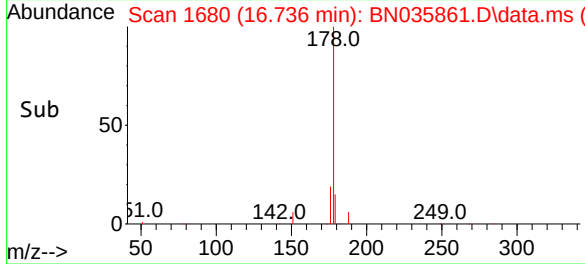
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC



Tgt Ion:178 Resp: 969  
Ion Ratio Lower Upper  
178 100  
176 19.5 15.4 23.2  
179 15.3 12.3 18.5

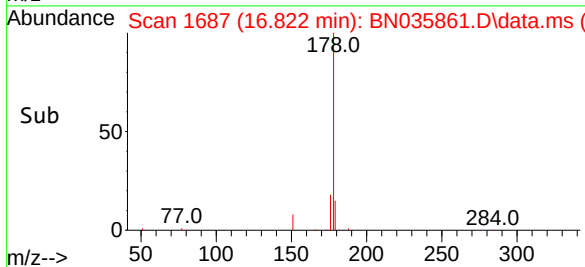
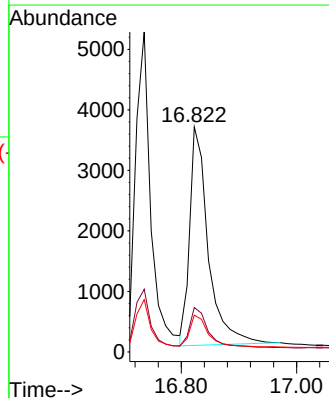
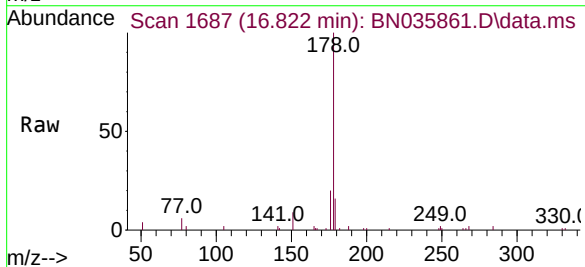
Manual Integrations  
**APPROVED**

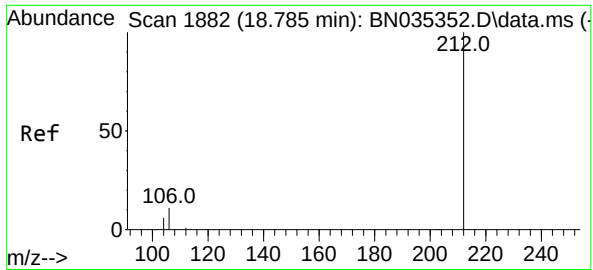
Reviewed By :Yogesh Patel 12/27/2024  
Supervised By :mohammad ahmed 12/27/2024



#26  
Anthracene  
Concen: 0.348 ng  
RT: 16.822 min Scan# 1687  
Delta R.T. -0.012 min  
Lab File: BN035861.D  
Acq: 26 Dec 2024 19:41

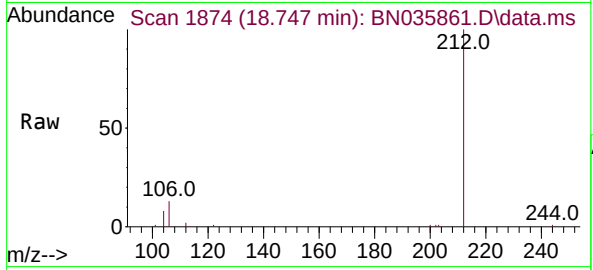
Tgt Ion:178 Resp: 8100  
Ion Ratio Lower Upper  
178 100  
176 18.6 15.0 22.6  
179 15.3 12.6 18.8





#27  
Fluoranthene-d10  
Concen: 0.325 ng  
RT: 18.747 min Scan# 1874  
Delta R.T. -0.014 min  
Lab File: BN035861.D  
Acq: 26 Dec 2024 19:41

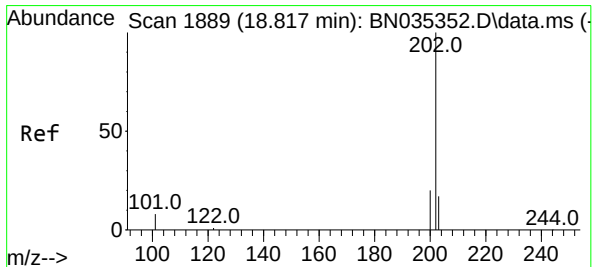
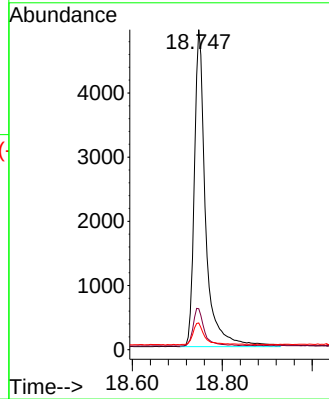
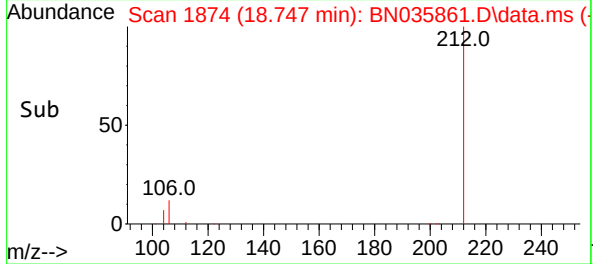
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC



Tgt Ion:212 Resp: 864  
Ion Ratio Lower Upper  
212 100  
106 11.7 9.2 13.8  
104 7.0 5.3 7.9

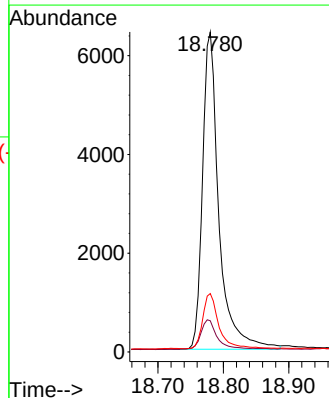
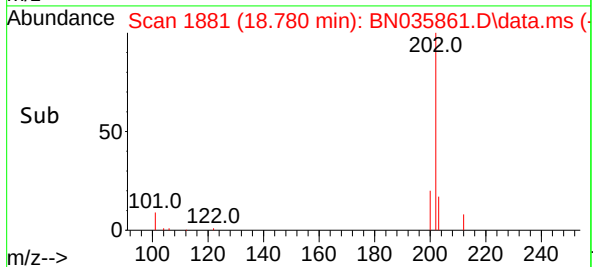
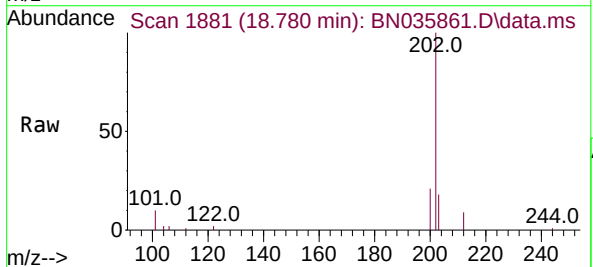
Manual Integrations  
**APPROVED**

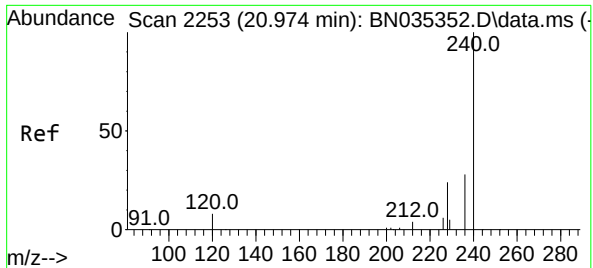
Reviewed By :Yogesh Patel 12/27/2024  
Supervised By :mohammad ahmed 12/27/2024



#28  
Fluoranthene  
Concen: 0.321 ng  
RT: 18.780 min Scan# 1881  
Delta R.T. -0.009 min  
Lab File: BN035861.D  
Acq: 26 Dec 2024 19:41

Tgt Ion:202 Resp: 11145  
Ion Ratio Lower Upper  
202 100  
101 9.7 7.4 11.0  
203 17.4 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.947 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035861.D

Acq: 26 Dec 2024 19:41

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC

Tgt Ion:240 Resp: 602

Ion Ratio Lower Upper

240 100

120 12.3 7.9 11.9

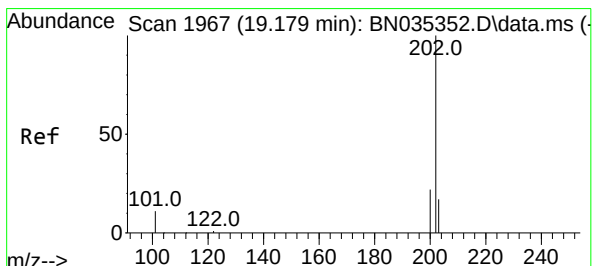
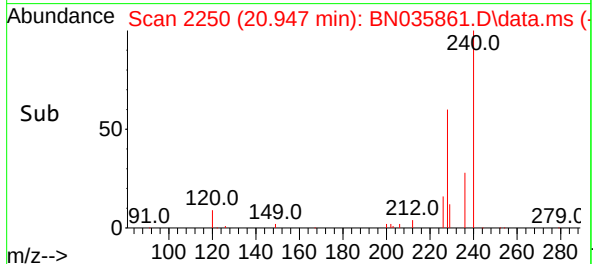
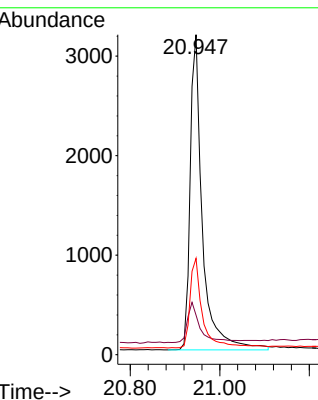
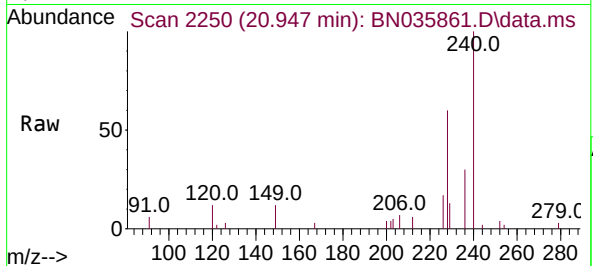
236 30.1 22.9 34.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/27/2024

Supervised By :mohammad ahmed 12/27/2024



#30

Pyrene

Concen: 0.517 ng

RT: 19.147 min Scan# 1960

Delta R.T. -0.014 min

Lab File: BN035861.D

Acq: 26 Dec 2024 19:41

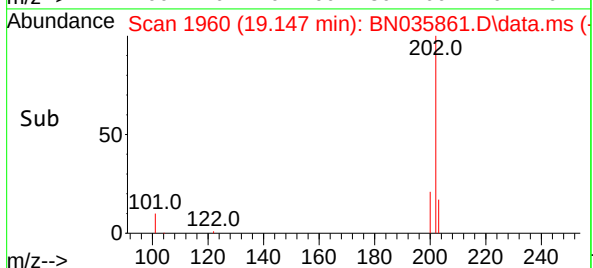
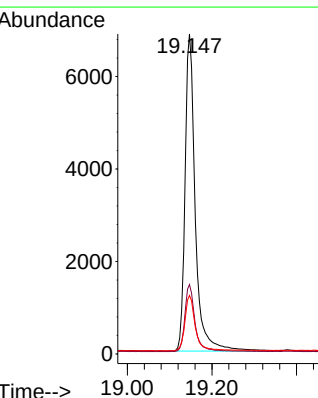
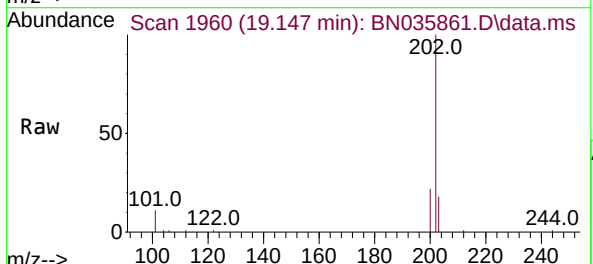
Tgt Ion:202 Resp: 11492

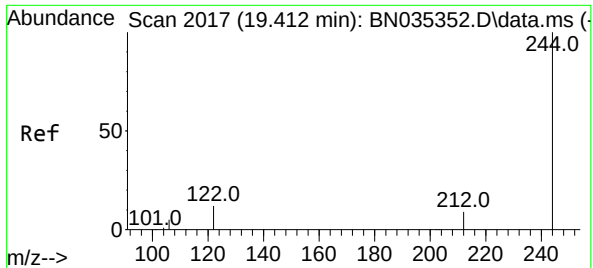
Ion Ratio Lower Upper

202 100

200 20.8 17.0 25.4

203 18.0 14.3 21.5





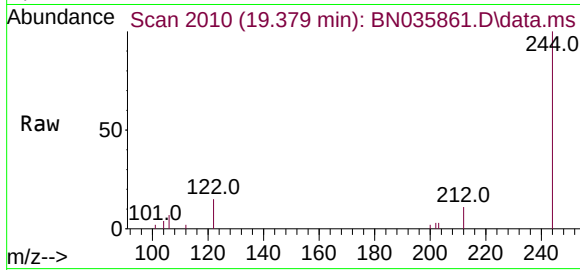
#31  
Terphenyl-d14  
Concen: 0.455 ng  
RT: 19.379 min Scan# 2017  
Delta R.T. -0.009 min  
Lab File: BN035861.D  
Acq: 26 Dec 2024 19:41

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC

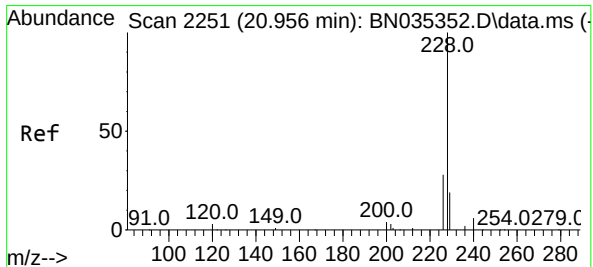
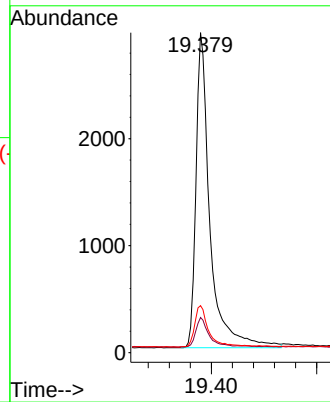
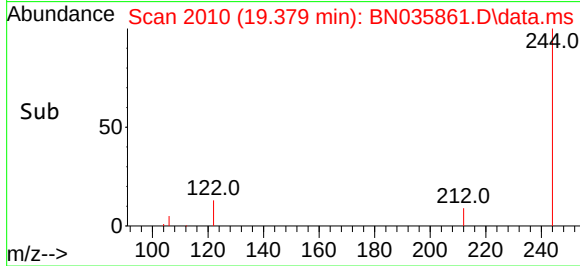


Tgt Ion:244 Resp: 540  
Ion Ratio Lower Upper  
244 100  
212 11.0 8.1 12.1  
122 14.7 10.3 15.5

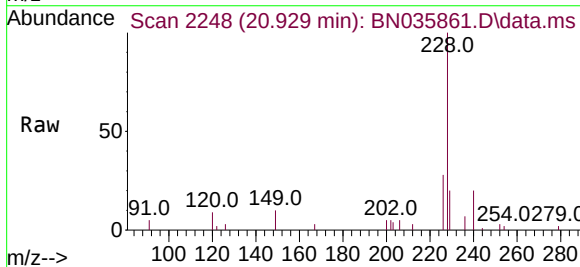
Manual Integrations

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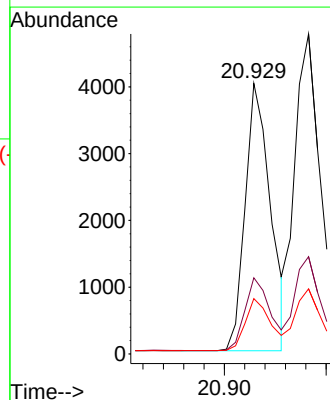
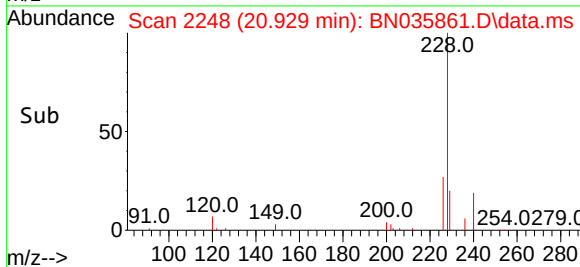
Reviewed By :Yogesh Patel 12/27/2024  
Supervised By :mohammad ahmed 12/27/2024

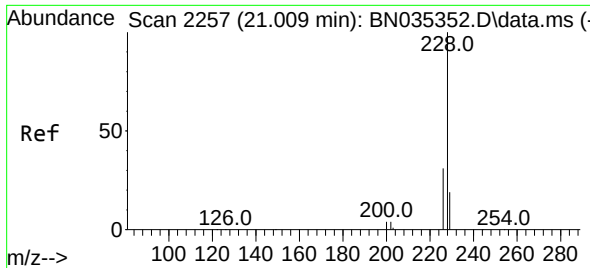


#32  
Benzo(a)anthracene  
Concen: 0.328 ng  
RT: 20.929 min Scan# 2248  
Delta R.T. -0.009 min  
Lab File: BN035861.D  
Acq: 26 Dec 2024 19:41



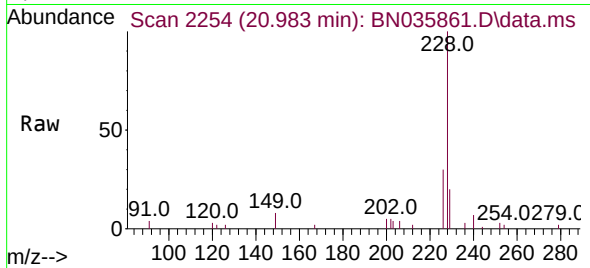
Tgt Ion:228 Resp: 6901  
Ion Ratio Lower Upper  
228 100  
226 28.1 22.5 33.7  
229 20.5 15.8 23.8





#33  
Chrysene  
Concen: 0.441 ng  
RT: 20.983 min Scan# 21  
Delta R.T. -0.009 min  
Lab File: BN035861.D  
Acq: 26 Dec 2024 19:41

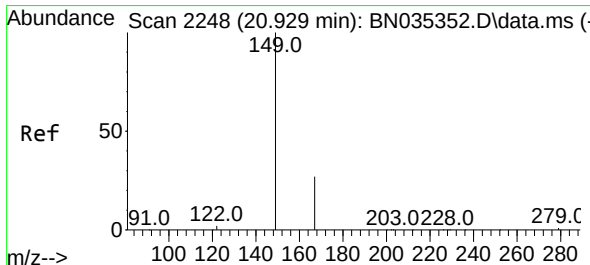
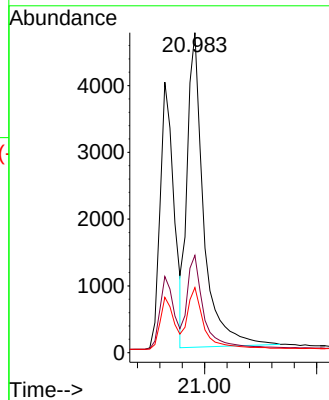
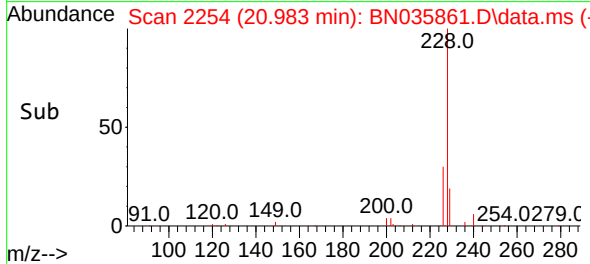
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC



Tgt Ion:228 Resp: 9578  
Ion Ratio Lower Upper  
228 100  
226 30.4 24.6 37.0  
229 20.3 15.9 23.9

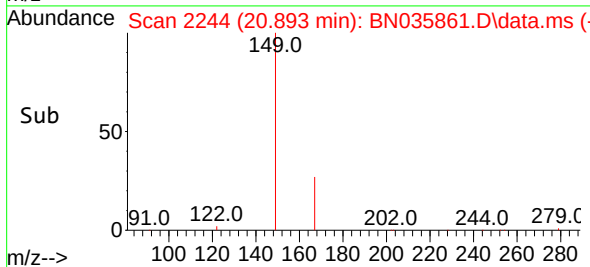
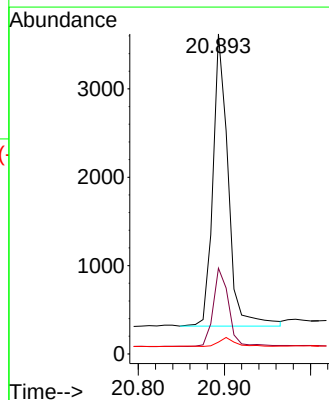
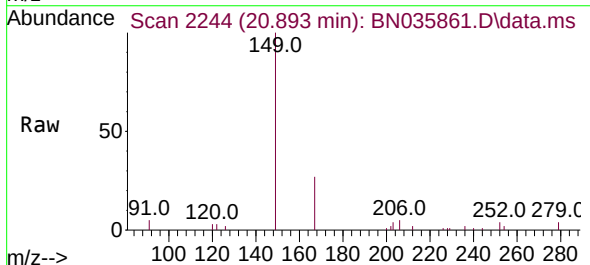
Manual Integrations  
**APPROVED**

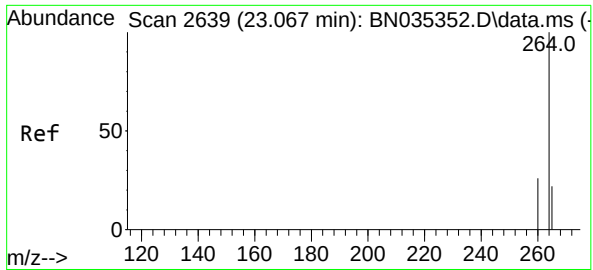
Reviewed By :Yogesh Patel 12/27/2024  
Supervised By :mohammad ahmed 12/27/2024



#34  
Bis(2-ethylhexyl)phthalate  
Concen: 0.489 ng  
RT: 20.893 min Scan# 2244  
Delta R.T. -0.018 min  
Lab File: BN035861.D  
Acq: 26 Dec 2024 19:41

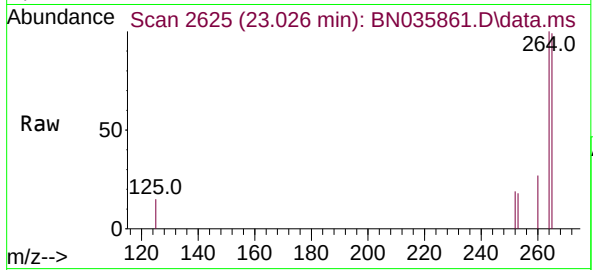
Tgt Ion:149 Resp: 4069  
Ion Ratio Lower Upper  
149 100  
167 27.2 22.2 33.4  
279 3.2 2.7 4.1





#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.026 min Scan# 2625  
Delta R.T. -0.015 min  
Lab File: BN035861.D  
Acq: 26 Dec 2024 19:41

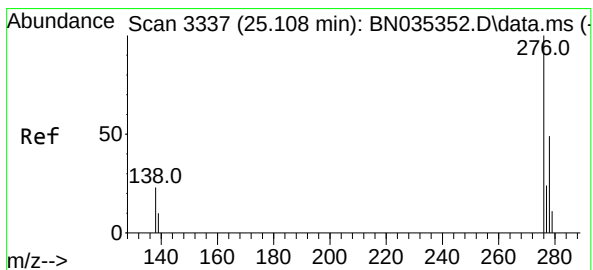
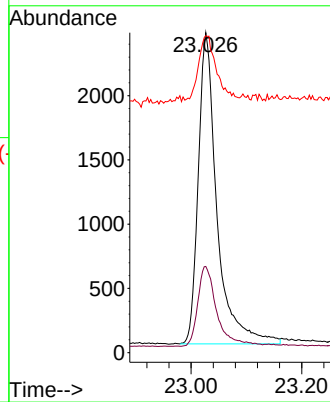
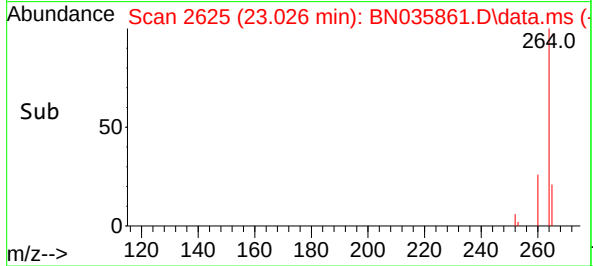
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC



Tgt Ion:264 Resp: 5699  
Ion Ratio Lower Upper  
264 100  
260 26.9 21.4 32.2  
265 99.1 40.2 60.4

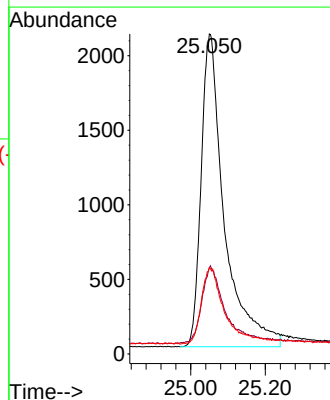
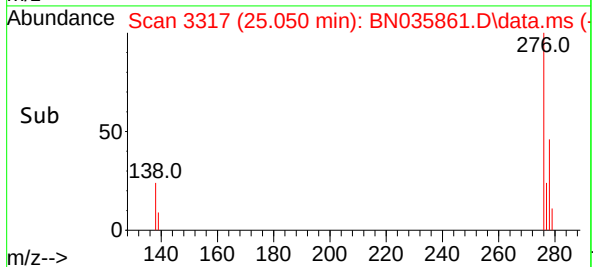
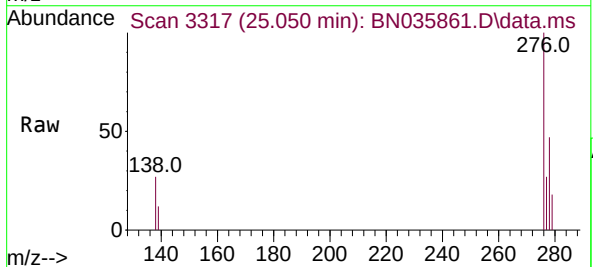
Manual Integrations  
APPROVED

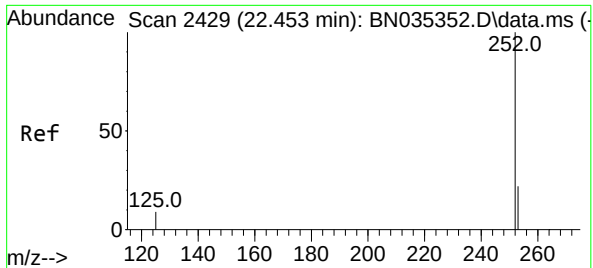
Reviewed By :Yogesh Patel 12/27/2024  
Supervised By :mohammad ahmed 12/27/2024



#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.405 ng  
RT: 25.050 min Scan# 3317  
Delta R.T. -0.018 min  
Lab File: BN035861.D  
Acq: 26 Dec 2024 19:41

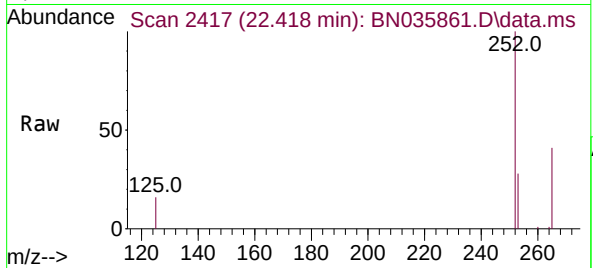
Tgt Ion:276 Resp: 9030  
Ion Ratio Lower Upper  
276 100  
138 24.8 19.4 29.0  
277 23.4 19.8 29.6





#37  
Benzo(b)fluoranthene  
Concen: 0.566 ng  
RT: 22.418 min Scan# 2417  
Delta R.T. -0.012 min  
Lab File: BN035861.D  
Acq: 26 Dec 2024 19:41

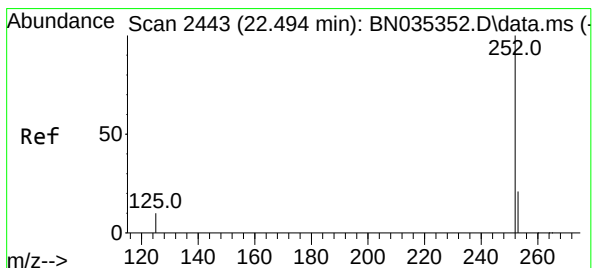
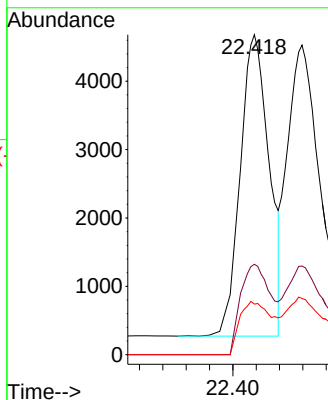
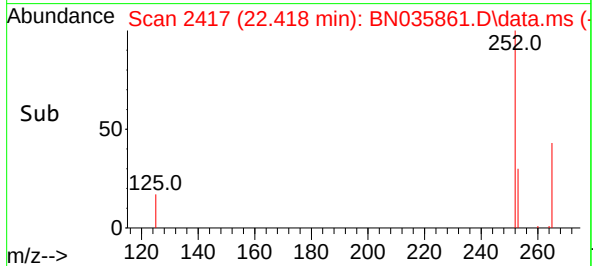
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC



Tgt Ion:252 Resp: 1180  
Ion Ratio Lower Upper  
252 100  
253 28.3 19.6 29.4  
125 15.8 9.6 14.4

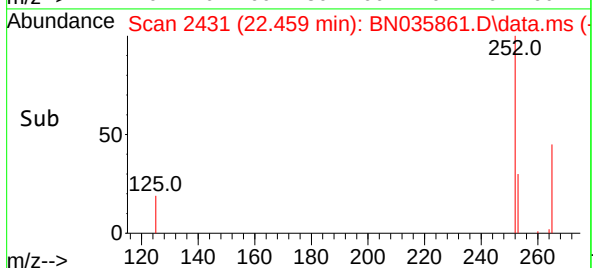
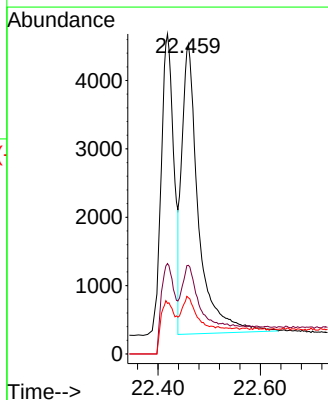
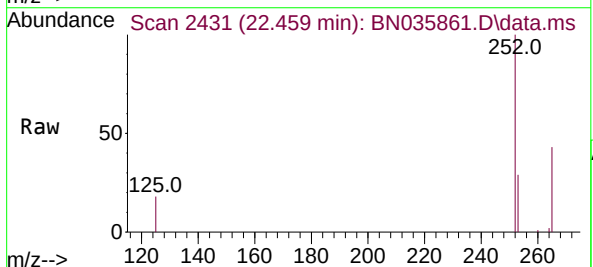
Manual Integrations  
**APPROVED**

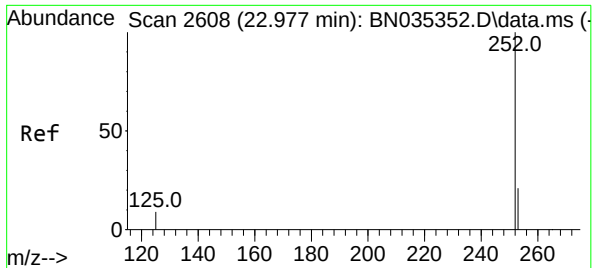
Reviewed By :Yogesh Patel 12/27/2024  
Supervised By :mohammad ahmed 12/27/2024



#38  
Benzo(k)fluoranthene  
Concen: 0.470 ng  
RT: 22.459 min Scan# 2431  
Delta R.T. -0.012 min  
Lab File: BN035861.D  
Acq: 26 Dec 2024 19:41

Tgt Ion:252 Resp: 9638  
Ion Ratio Lower Upper  
252 100  
253 28.6 19.5 29.3  
125 18.2 10.2 15.4





#39

Benzo(a)pyrene

Concen: 0.387 ng

RT: 22.939 min Scan# 21

Delta R.T. -0.012 min

Lab File: BN035861.D

Acq: 26 Dec 2024 19:41

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC

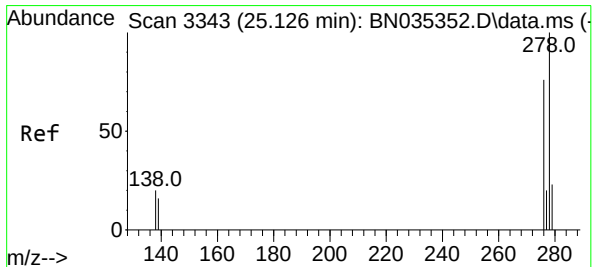
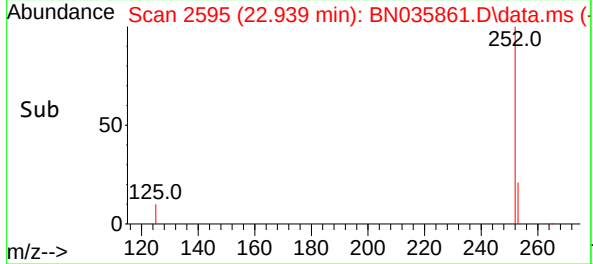
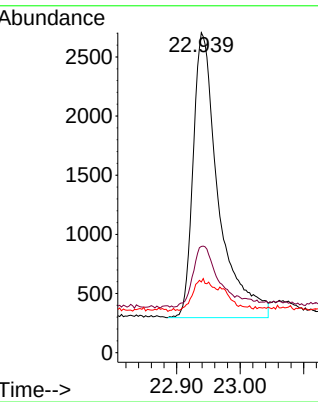
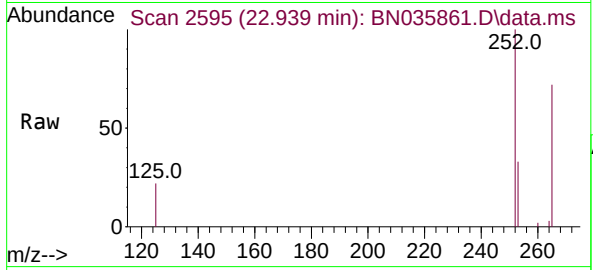
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:252 | Resp: | 664       |
| Ion Ratio   | Lower | Upper     |
| 252         | 100   |           |
| 253         | 33.2  | 20.2 30.4 |
| 125         | 22.1  | 10.9 16.3 |

Manual Integrations

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Reviewed By :Yogesh Patel 12/27/2024

Supervised By :mohammad ahmed 12/27/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.377 ng

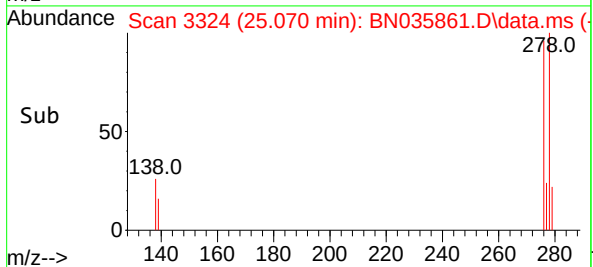
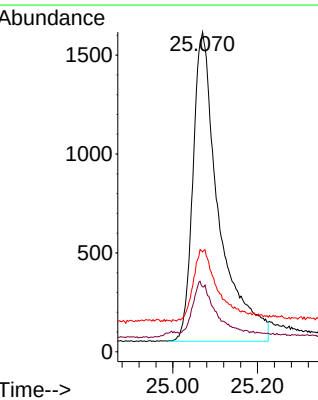
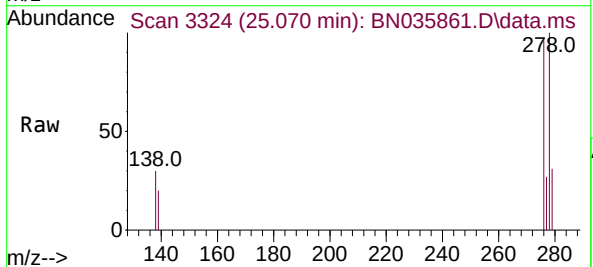
RT: 25.070 min Scan# 3324

Delta R.T. -0.012 min

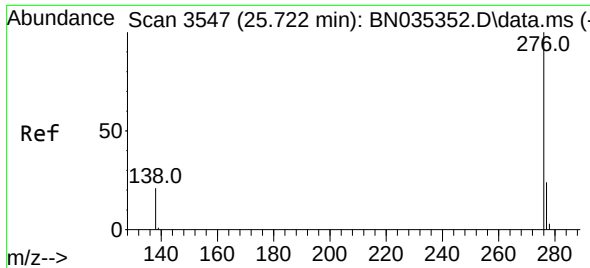
Lab File: BN035861.D

Acq: 26 Dec 2024 19:41

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:278 | Resp: | 6633      |
| Ion Ratio   | Lower | Upper     |
| 278         | 100   |           |
| 139         | 20.3  | 14.2 21.4 |
| 279         | 31.2  | 20.5 30.7 |







#41

Benzo(g,h,i)perylene

Concen: 0.452 ng

RT: 25.652 min Scan# 31

Delta R.T. -0.026 min

Lab File: BN035861.D

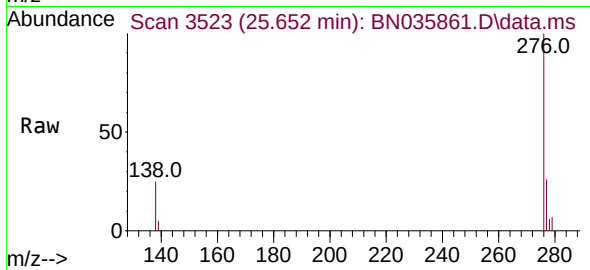
Acq: 26 Dec 2024 19:41

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC



Tgt Ion:276 Resp: 8300

Ion Ratio Lower Upper

276 100

277 26.3 19.9 29.9

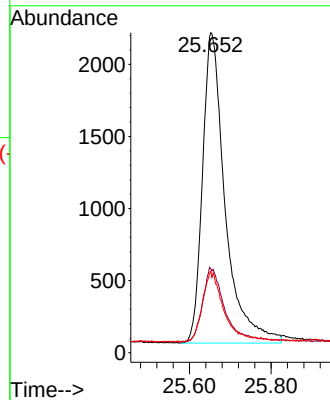
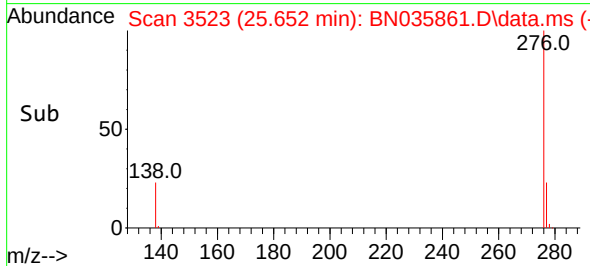
138 25.5 17.8 26.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/27/2024

Supervised By :mohammad ahmed 12/27/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN122624\  
 Data File : BN035861.D  
 Acq On : 26 Dec 2024 19:41  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 LabSampleId :  
 SSTDCCC0.4

Quant Time: Dec 27 00:42:36 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Dec 19 23:06:19 2024  
 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    | 151#  | -0.01    |
| 2       | 1,4-Dioxane                | 0.382 | 0.394 | -3.1   | 158#  | 0.00     |
| 3       | n-Nitrosodimethylamine     | 0.319 | 0.331 | -3.8   | 153#  | 0.00     |
| 4 S     | 2-Fluorophenol             | 1.001 | 0.931 | 7.0    | 138   | -0.01    |
| 5 S     | Phenol-d6                  | 1.204 | 1.022 | 15.1   | 129   | -0.02    |
| 6       | bis(2-Chloroethyl)ether    | 1.012 | 0.883 | 12.7   | 134   | -0.02    |
| 7 I     | Naphthalene-d8             | 1.000 | 1.000 | 0.0    | 138   | -0.02    |
| 8 S     | Nitrobenzene-d5            | 0.244 | 0.306 | -25.4# | 180#  | -0.01    |
| 9       | Naphthalene                | 1.055 | 1.038 | 1.6    | 137   | -0.01    |
| 10      | Hexachlorobutadiene        | 0.243 | 0.275 | -13.2  | 154#  | -0.02    |
| 11 SURR | 2-Methylnaphthalene-d10    | 0.626 | 0.551 | 12.0   | 123   | -0.02    |
| 12      | 2-Methylnaphthalene        | 0.755 | 0.655 | 13.2   | 123   | -0.02    |
| 13 I    | Acenaphthene-d10           | 1.000 | 1.000 | 0.0    | 118   | -0.02    |
| 14 S    | 2,4,6-Tribromophenol       | 0.284 | 0.225 | 20.8   | 103   | -0.01    |
| 15 S    | 2-Fluorobiphenyl           | 1.512 | 1.480 | 2.1    | 115   | -0.02    |
| 16      | Acenaphthylene             | 1.680 | 1.548 | 7.9    | 114   | -0.02    |
| 17      | Acenaphthene               | 1.115 | 1.068 | 4.2    | 116   | -0.02    |
| 18      | Fluorene                   | 1.596 | 1.449 | 9.2    | 110   | -0.02    |
| 19 I    | Phenanthrene-d10           | 1.000 | 1.000 | 0.0    | 99    | -0.01    |
| 20      | 4,6-Dinitro-2-methylphenol | 0.039 | 0.048 | -23.1  | 134   | -0.01    |
| 21      | 4-Bromophenyl-phenylether  | 0.234 | 0.221 | 5.6    | 97    | -0.01    |
| 22      | Hexachlorobenzene          | 0.275 | 0.322 | -17.1  | 116   | -0.02    |
| 23      | Atrazine                   | 0.167 | 0.161 | 3.6    | 103   | 0.00     |
| 24      | Pentachlorophenol          | 0.120 | 0.090 | 25.0   | 93    | -0.01    |
| 25      | Phenanthrene               | 1.099 | 1.035 | 5.8    | 96    | -0.01    |
| 26      | Anthracene                 | 0.994 | 0.864 | 13.1   | 91    | -0.01    |
| 27 SURR | Fluoranthene-d10           | 1.134 | 0.922 | 18.7   | 85    | -0.01    |
| 28      | Fluoranthene               | 1.481 | 1.189 | 19.7   | 83    | 0.00     |
| 29 I    | Chrysene-d12               | 1.000 | 1.000 | 0.0    | 63    | 0.00     |
| 30      | Pyrene                     | 1.477 | 1.909 | -29.2# | 82    | -0.01    |
| 31 S    | Terphenyl-d14              | 0.789 | 0.898 | -13.8  | 72    | 0.00     |
| 32      | Benzo(a)anthracene         | 1.399 | 1.146 | 18.1   | 53    | 0.00     |
| 33      | Chrysene                   | 1.443 | 1.591 | -10.3  | 70    | 0.00     |
| 34      | Bis(2-ethylhexyl)phthalate | 0.553 | 0.676 | -22.2  | 83    | -0.02    |
| 35 I    | Perylene-d12               | 1.000 | 1.000 | 0.0    | 53    | -0.01    |
| 36      | Indeno(1,2,3-cd)pyrene     | 1.564 | 1.584 | -1.3   | 54    | -0.02    |
| 37      | Benzo(b)fluoranthene       | 1.463 | 2.071 | -41.6# | 83    | -0.01    |
| 38      | Benzo(k)fluoranthene       | 1.440 | 1.691 | -17.4  | 63    | -0.01    |
| 39 C    | Benzo(a)pyrene             | 1.205 | 1.165 | 3.3    | 53    | -0.01    |
| 40      | Dibenzo(a,h)anthracene     | 1.234 | 1.164 | 5.7    | 51    | -0.01    |
| 41      | Benzo(g,h,i)perylene       | 1.289 | 1.456 | -13.0  | 61    | -0.03    |

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN122624\  
 Data File : BN035861.D  
 Acq On : 26 Dec 2024 19:41  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 LabSampleId :  
 SSTDCCC0.4

Quant Time: Dec 27 00:42:36 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Dec 19 23:06:19 2024  
 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    | 151   | -0.01    |
| 2       | 1,4-Dioxane                | 0.400  | 0.412 | -3.0   | 158   | 0.00     |
| 3       | n-Nitrosodimethylamine     | 0.400  | 0.415 | -3.7   | 153   | 0.00     |
| 4 S     | 2-Fluorophenol             | 0.400  | 0.372 | 7.0    | 138   | -0.01    |
| 5 S     | Phenol-d6                  | 0.400  | 0.340 | 15.0   | 129   | -0.02    |
| 6       | bis(2-Chloroethyl)ether    | 0.400  | 0.349 | 12.8   | 134   | -0.02    |
| 7 I     | Naphthalene-d8             | 0.400  | 0.400 | 0.0    | 138   | -0.02    |
| 8 S     | Nitrobenzene-d5            | 0.400  | 0.501 | -25.2# | 180   | -0.01    |
| 9       | Naphthalene                | 0.400  | 0.394 | 1.5    | 137   | -0.01    |
| 10      | Hexachlorobutadiene        | 0.400  | 0.452 | -13.0  | 154   | -0.02    |
| 11 SURR | 2-Methylnaphthalene-d10    | 0.400  | 0.352 | 12.0   | 123   | -0.02    |
| 12      | 2-Methylnaphthalene        | 0.400  | 0.347 | 13.3   | 123   | -0.02    |
| 13 I    | Acenaphthene-d10           | 0.400  | 0.400 | 0.0    | 118   | -0.02    |
| 14 S    | 2,4,6-Tribromophenol       | 0.400  | 0.318 | 20.5   | 103   | -0.01    |
| 15 S    | 2-Fluorobiphenyl           | 0.400  | 0.392 | 2.0    | 115   | -0.02    |
| 16      | Acenaphthylene             | 0.400  | 0.369 | 7.8    | 114   | -0.02    |
| 17      | Acenaphthene               | 0.400  | 0.383 | 4.3    | 116   | -0.02    |
| 18      | Fluorene                   | 0.400  | 0.363 | 9.3    | 110   | -0.02    |
| 19 I    | Phenanthrene-d10           | 0.400  | 0.400 | 0.0    | 99    | -0.01    |
| 20      | 4,6-Dinitro-2-methylphenol | 0.400  | 0.492 | -23.0  | 134   | -0.01    |
| 21      | 4-Bromophenyl-phenylether  | 0.400  | 0.378 | 5.5    | 97    | -0.01    |
| 22      | Hexachlorobenzene          | 0.400  | 0.468 | -17.0  | 116   | -0.02    |
| 23      | Atrazine                   | 0.400  | 0.386 | 3.5    | 103   | 0.00     |
| 24      | Pentachlorophenol          | 0.400  | 0.302 | 24.5   | 93    | -0.01    |
| 25      | Phenanthrene               | 0.400  | 0.377 | 5.8    | 96    | -0.01    |
| 26      | Anthracene                 | 0.400  | 0.348 | 13.0   | 91    | -0.01    |
| 27 SURR | Fluoranthene-d10           | 0.400  | 0.325 | 18.8   | 85    | -0.01    |
| 28      | Fluoranthene               | 0.400  | 0.321 | 19.8   | 83    | 0.00     |
| 29 I    | Chrysene-d12               | 0.400  | 0.400 | 0.0    | 63    | 0.00     |
| 30      | Pyrene                     | 0.400  | 0.517 | -29.3# | 82    | -0.01    |
| 31 S    | Terphenyl-d14              | 0.400  | 0.455 | -13.7  | 72    | 0.00     |
| 32      | Benzo(a)anthracene         | 0.400  | 0.328 | 18.0   | 53    | 0.00     |
| 33      | Chrysene                   | 0.400  | 0.441 | -10.2  | 70    | 0.00     |
| 34      | Bis(2-ethylhexyl)phthalate | 0.400  | 0.489 | -22.2  | 83    | -0.02    |
| 35 I    | Perylene-d12               | 0.400  | 0.400 | 0.0    | 53    | -0.01    |
| 36      | Indeno(1,2,3-cd)pyrene     | 0.400  | 0.405 | -1.3   | 54    | -0.02    |
| 37      | Benzo(b)fluoranthene       | 0.400  | 0.566 | -41.5# | 83    | -0.01    |
| 38      | Benzo(k)fluoranthene       | 0.400  | 0.470 | -17.5  | 63    | -0.01    |
| 39 C    | Benzo(a)pyrene             | 0.400  | 0.387 | 3.3    | 53    | -0.01    |
| 40      | Dibenzo(a,h)anthracene     | 0.400  | 0.377 | 5.8    | 51    | -0.01    |
| 41      | Benzo(g,h,i)perylene       | 0.400  | 0.452 | -13.0  | 61    | -0.03    |

(#) = Out of Range

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



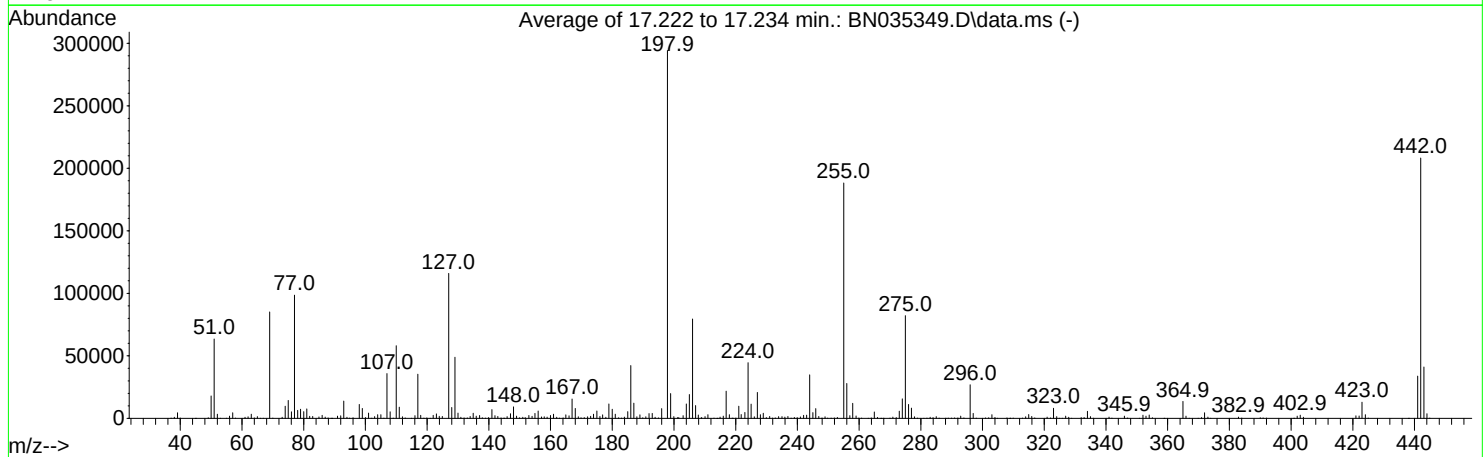
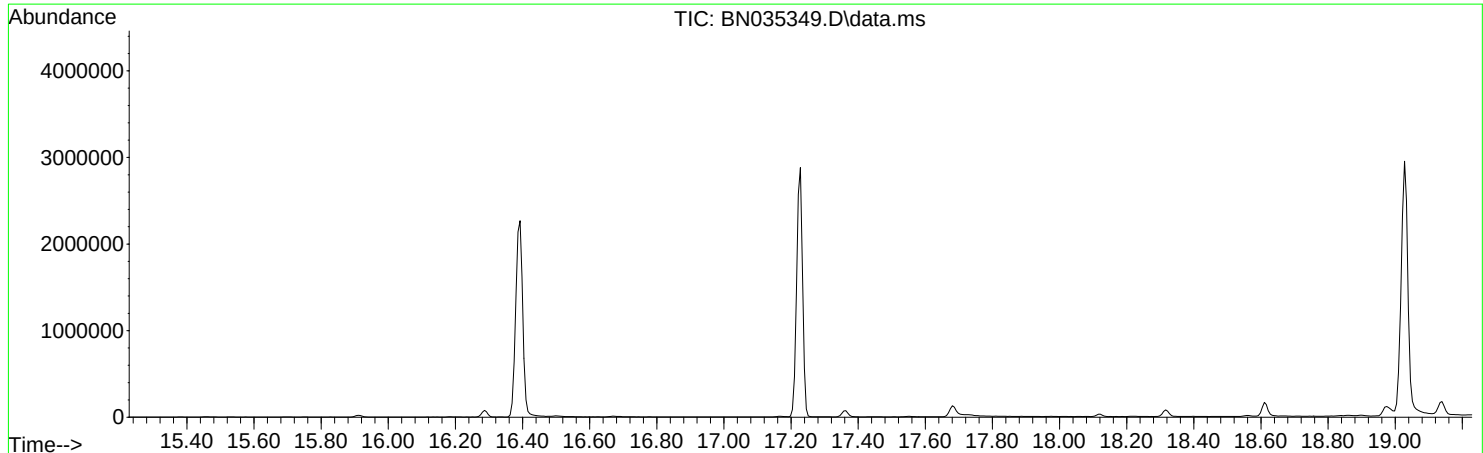
# QC SAMPLE DATA

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112724\  
Data File : BN035349.D  
Acq On : 27 Nov 2024 14:55  
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-BN112724.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
Last Update : Wed Nov 27 23:03:24 2024



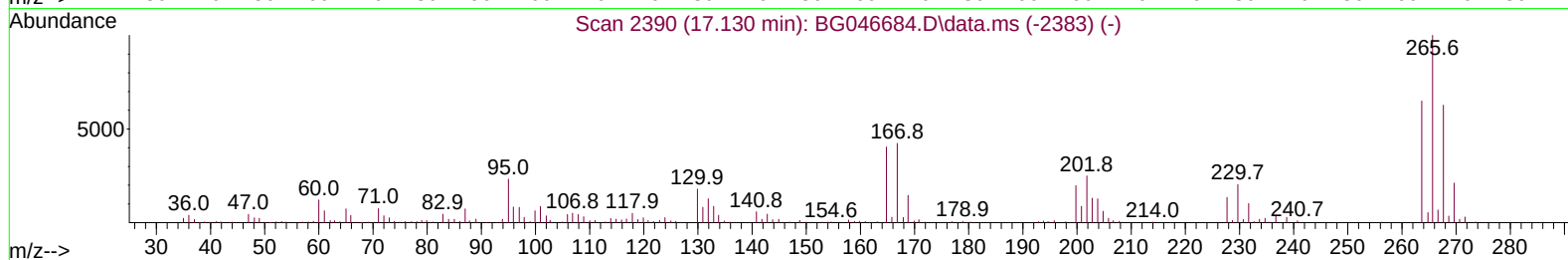
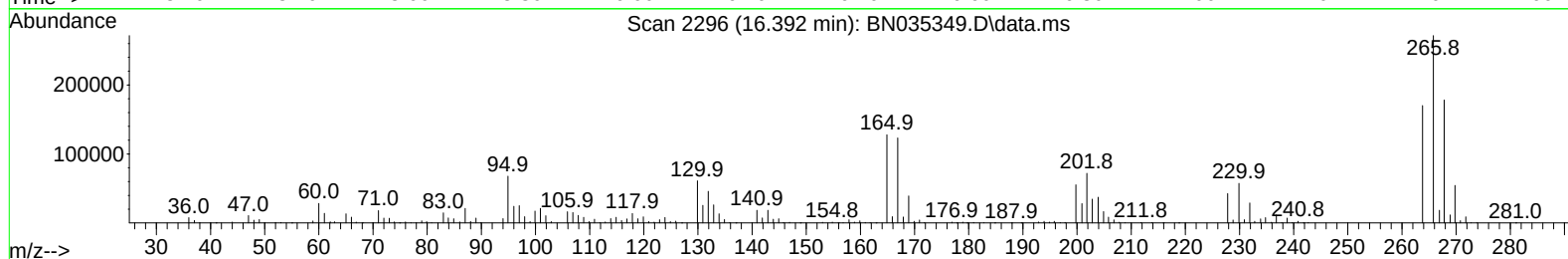
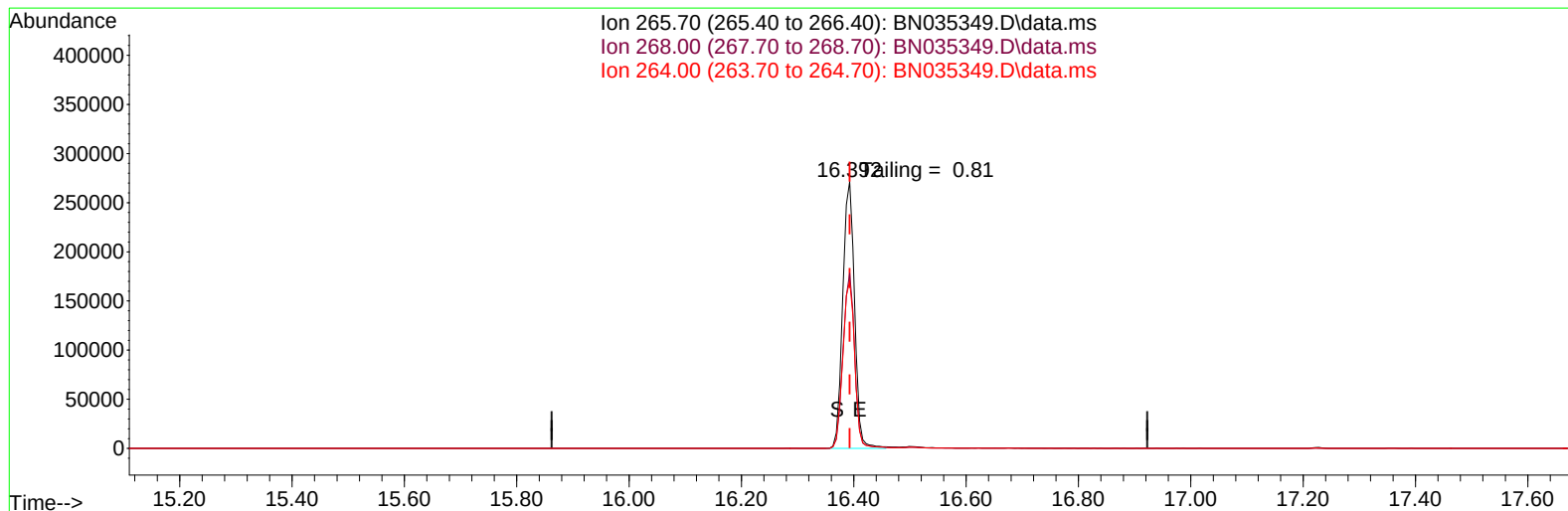
AutoFind: Scans 2437, 2438, 2439; Background Corrected with Scan 2430

| 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              | 21.6         | 63480      | PASS                |
| 68             | 69              | 0.00            | 2               | 0.0          | 0          | PASS                |
| 69             | 198             | 0.00            | 100             | 28.9         | 85062      | PASS                |
| 70             | 69              | 0.00            | 2               | 0.4          | 303        | PASS                |
| 127            | 198             | 10              | 80              | 39.4         | 115899     | PASS                |
| 197            | 198             | 0.00            | 2               | 0.0          | 0          | PASS                |
| 198            | 198             | 100             | 100             | 100.0        | 294229     | PASS                |
| 199            | 198             | 5               | 9               | 6.7          | 19826      | PASS                |
| 275            | 198             | 10              | 60              | 27.9         | 82149      | PASS                |
| 365            | 198             | 1               | 100             | 4.6          | 13565      | PASS                |
| 441            | 198             | 0.01            | 100             | 11.5         | 33811      | PASS                |
| 442            | 442             | 50              | 100             | 100.0        | 208235     | PASS                |
| 443            | 442             | 15              | 24              | 19.7         | 41045      | PASS                |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112724\  
Data File : BN035349.D  
Acq On : 27 Nov 2024 14:55  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

Quant Time: Nov 28 04:07:39 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270E-Tune.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Nov 28 04:07:30 2024  
Response via : Initial Calibration



TIC: BN035349.D\data.ms

**(70) Pentachlorophenol (C)**

16.392min ( 0.000) 27794.31 ng

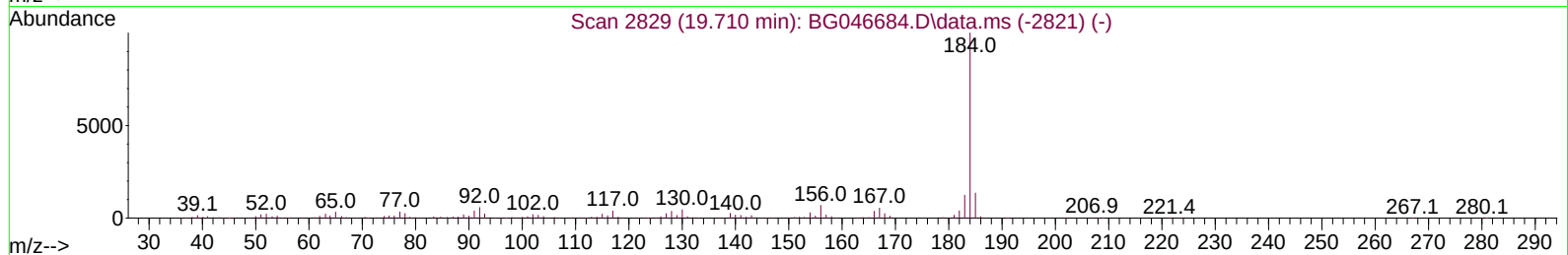
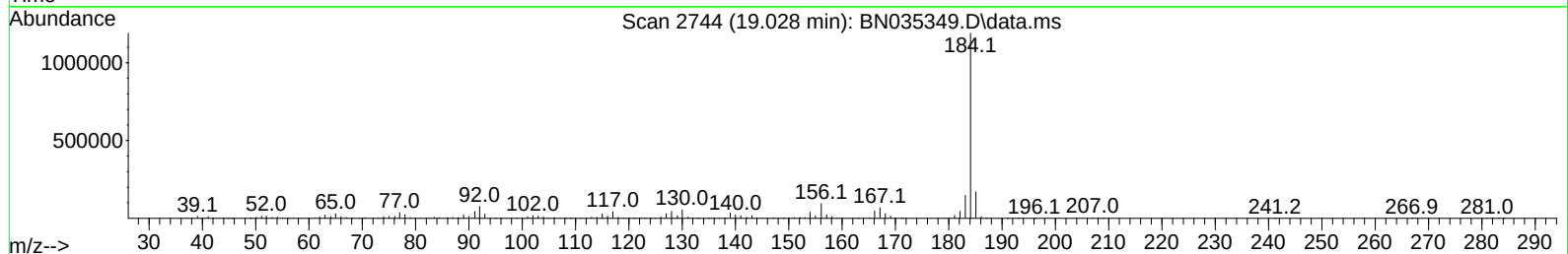
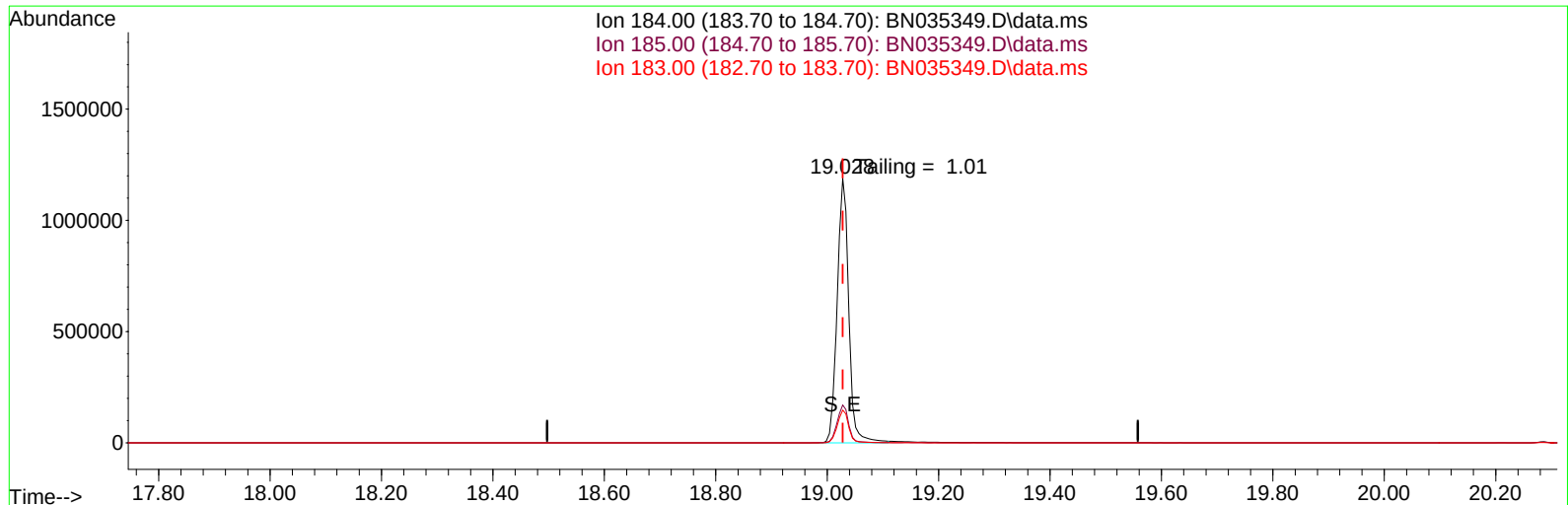
response 398074

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 265.70 | 100.00 | 100.00 |
| 268.00 | 62.20  | 65.68  |
| 264.00 | 61.60  | 62.66  |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112724\  
Data File : BN035349.D  
Acq On : 27 Nov 2024 14:55  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

Quant Time: Nov 28 04:07:39 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270E-Tune.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Nov 28 04:07:30 2024  
Response via : Initial Calibration



TIC: BN035349.D\data.ms

**(77) Benzidine**

19.028min ( 0.000) 0.00 ng

response 1733630

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 184.00 | 100.00 | 100.00 |
| 185.00 | 15.50  | 14.34  |
| 183.00 | 13.20  | 12.42  |
| 0.00   | 0.00   | 0.00   |

DDT Breakdown

|               |                  |                    |
|---------------|------------------|--------------------|
| Date          | Instrument Name  | DFTPP Data File    |
| 11/27/2024    | BNA_N            | <u>BN035349.D</u>  |
|               |                  |                    |
|               |                  |                    |
| Compound Name | Response         | Retention Time     |
|               |                  |                    |
| DDT           | 985457           | 20.286             |
| DDD           | 27636            | 19.839             |
| DDE           | 578              | 19.322             |
|               |                  |                    |
|               |                  |                    |
| SUM(DDD+DDE)  | SUM(DDT+DDD+DDE) | % Breakdown Of DDT |
|               |                  |                    |
| 28214         | 1013671          | 2.78               |
|               |                  |                    |

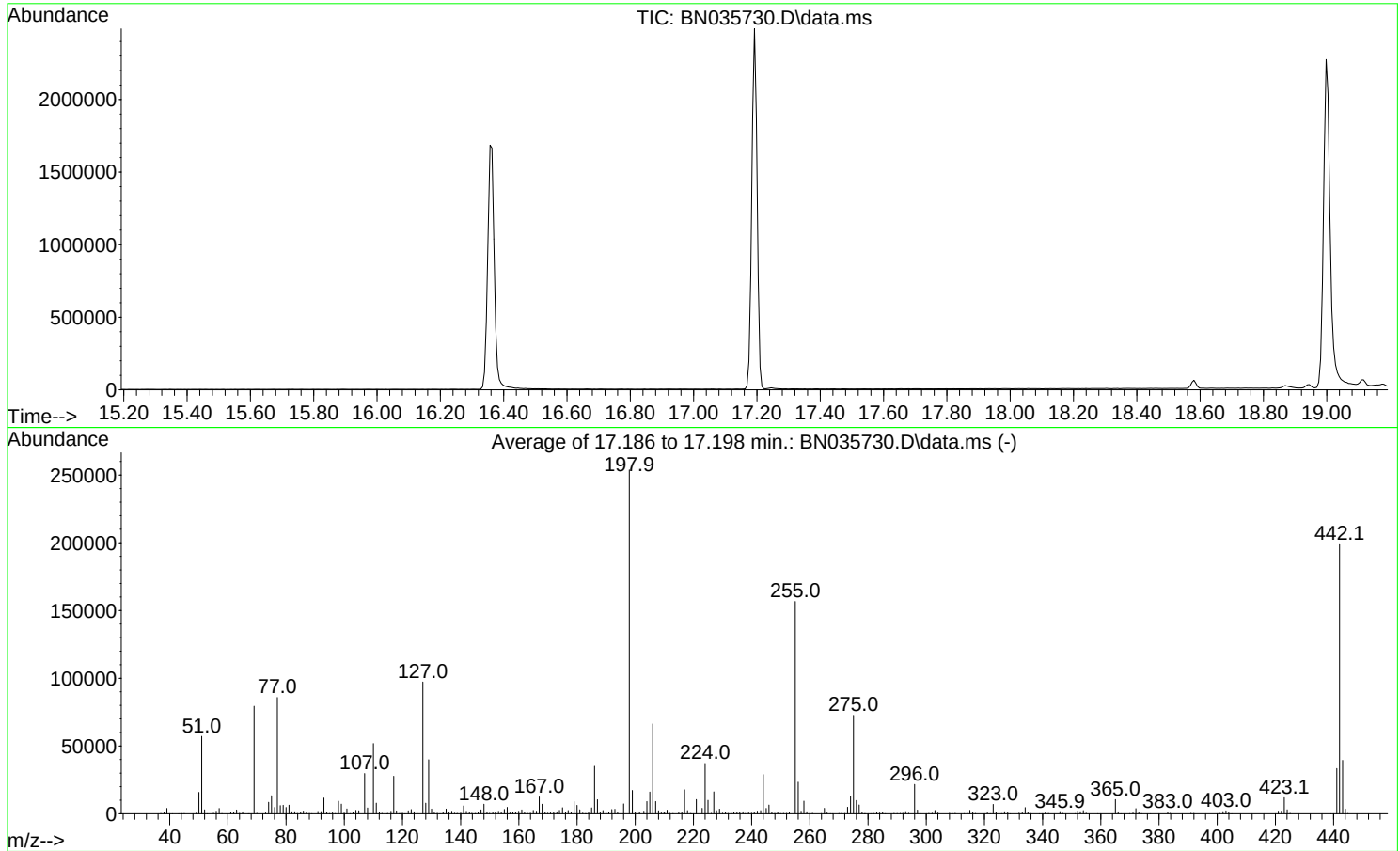


Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN121924\  
Data File : BN035730.D  
Acq On : 20 Dec 2024 07:25  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
Last Update : Thu Dec 19 23:06:19 2024



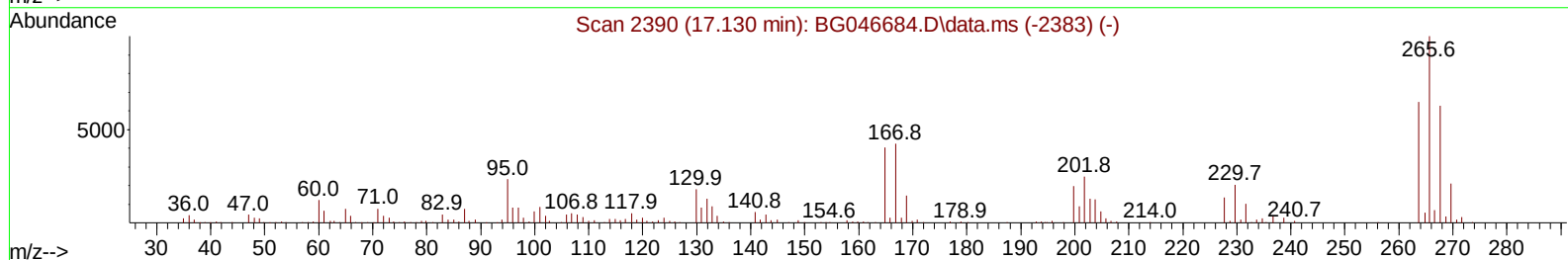
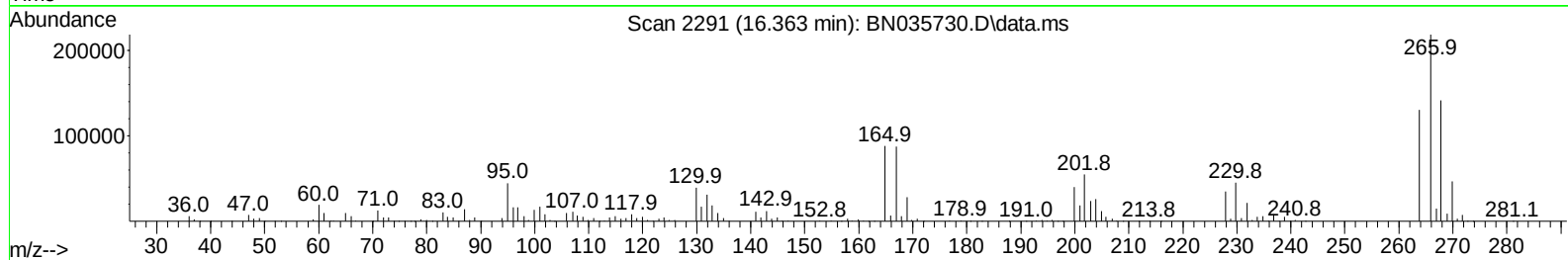
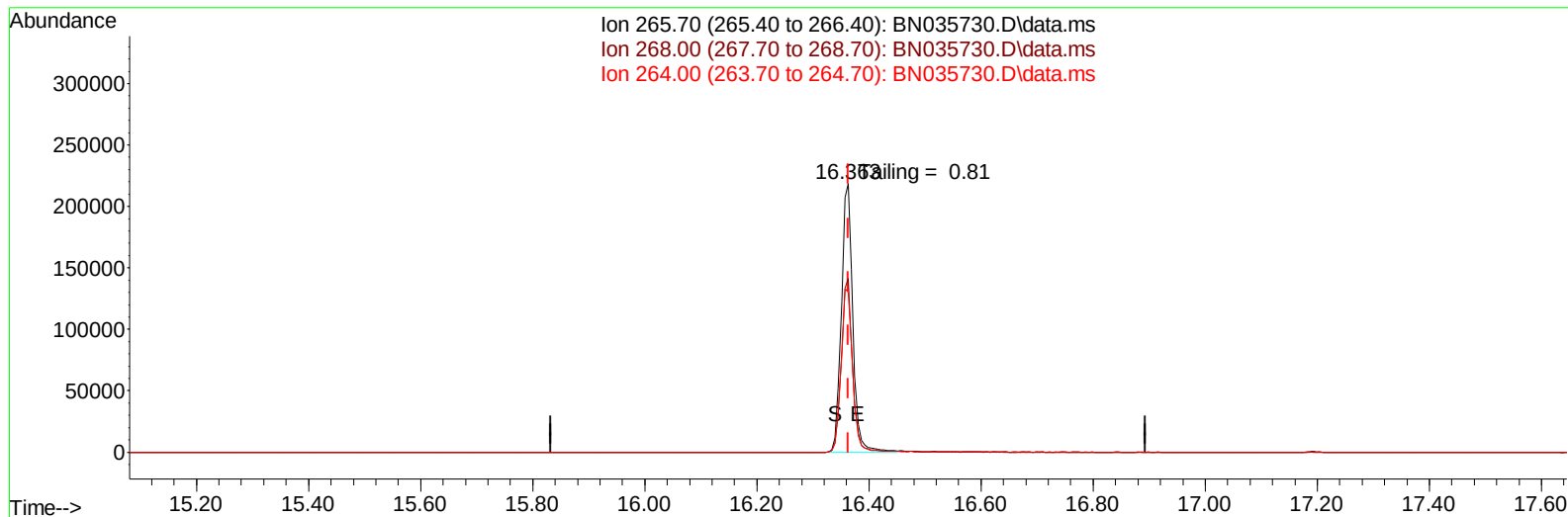
AutoFind: Scans 2431, 2432, 2433; Background Corrected with Scan 2424

| 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              | 22.5         | 57147      | PASS                |
| 68             | 69              | 0.00            | 2               | 0.0          | 0          | PASS                |
| 69             | 198             | 0.00            | 100             | 31.3         | 79373      | PASS                |
| 70             | 69              | 0.00            | 2               | 0.5          | 393        | PASS                |
| 127            | 198             | 10              | 80              | 38.3         | 97248      | PASS                |
| 197            | 198             | 0.00            | 2               | 0.0          | 0          | PASS                |
| 198            | 198             | 100             | 100             | 100.0        | 253824     | PASS                |
| 199            | 198             | 5               | 9               | 6.8          | 17235      | PASS                |
| 275            | 198             | 10              | 60              | 28.6         | 72629      | PASS                |
| 365            | 198             | 1               | 100             | 4.1          | 10491      | PASS                |
| 441            | 198             | 0.01            | 100             | 13.2         | 33387      | PASS                |
| 442            | 442             | 50              | 100             | 100.0        | 199296     | PASS                |
| 443            | 442             | 15              | 24              | 19.8         | 39411      | PASS                |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN121924\  
Data File : BN035730.D  
Acq On : 20 Dec 2024 07:25  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

Quant Time: Dec 20 08:05:17 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270E-Tune.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Dec 20 08:05:13 2024  
Response via : Initial Calibration



TIC: BN035730.D\data.ms

**(70) Pentachlorophenol (C)**

**16.363min ( 0.000) 28931.39 ng**

**response 314005**

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 265.70 | 100.00 | 100.00 |
| 268.00 | 62.20  | 64.75  |
| 264.00 | 61.60  | 59.64  |
| 0.00   | 0.00   | 0.00   |

**Instrument :**  
BNA\_N  
**ClientSampleId :**  
DFTPP

Abundance

1400000

1200000

1000000

800000

600000

400000

200000

0

me--> 17.80 18.00 18.20 18.40 18.60 18.80 19.00 19.20 19.40 19.60 19.80 20.00 20.20

lon 184.00 (183.70 to 184.70): BN035730.D\data.ms

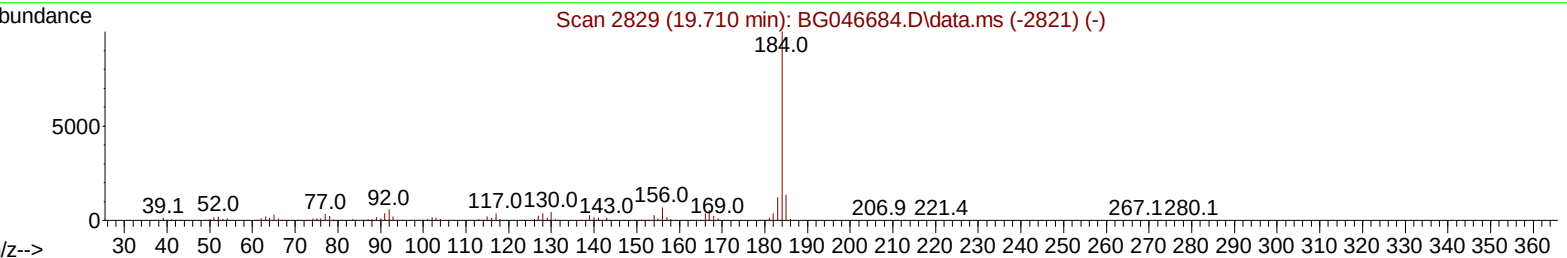
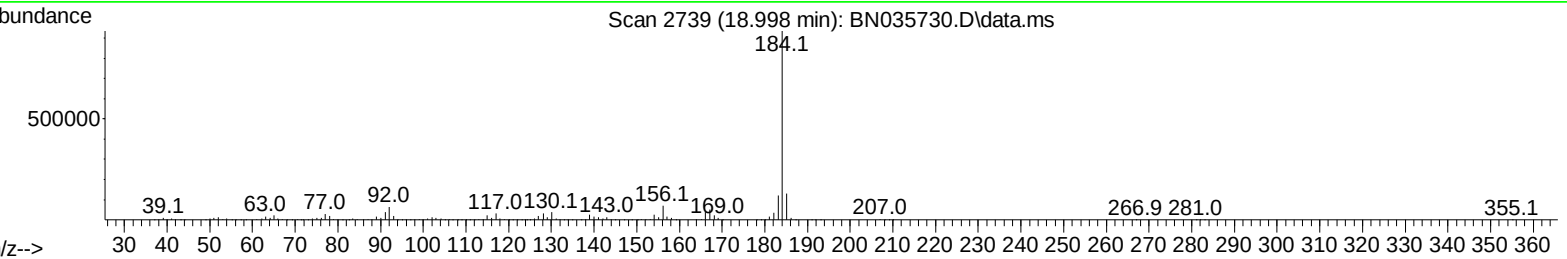
lon 185.00 (184.70 to 185.70): BN035730.D\data.ms

lon 183.00 (182.70 to 183.70): BN035730.D\data.ms

18.999

Peak = 1.55

S E



TIC: BN035730.D\data.ms

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 184.00 | 100.00 | 100.00 |
| 185.00 | 15.50  | 13.90  |
| 183.00 | 13.20  | 12.84  |
| 0.00   | 0.00   | 0.00   |

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

DDT Breakdown

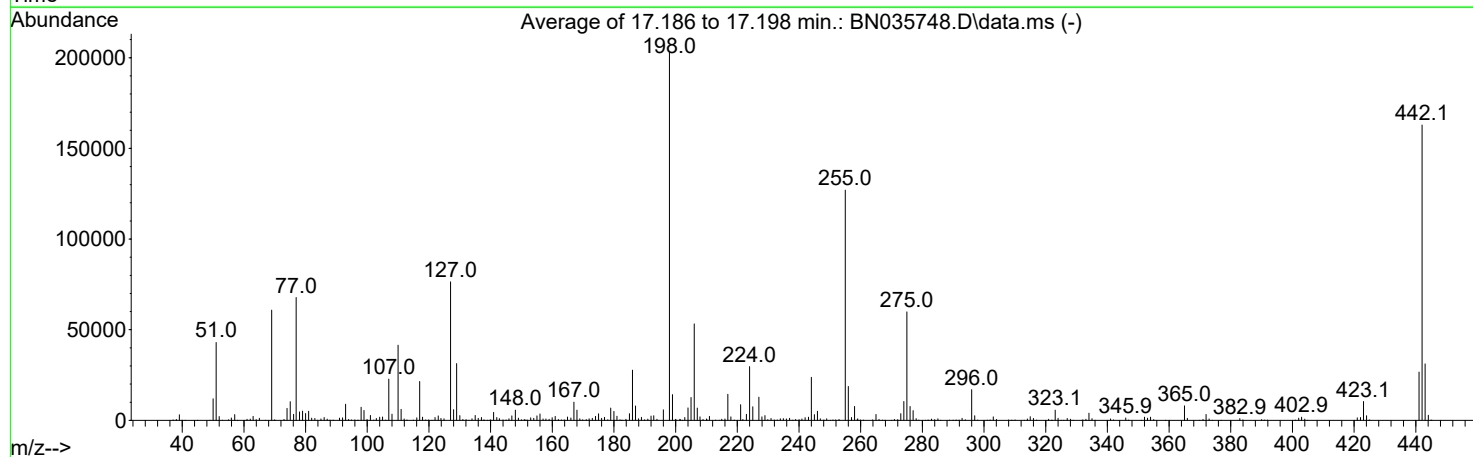
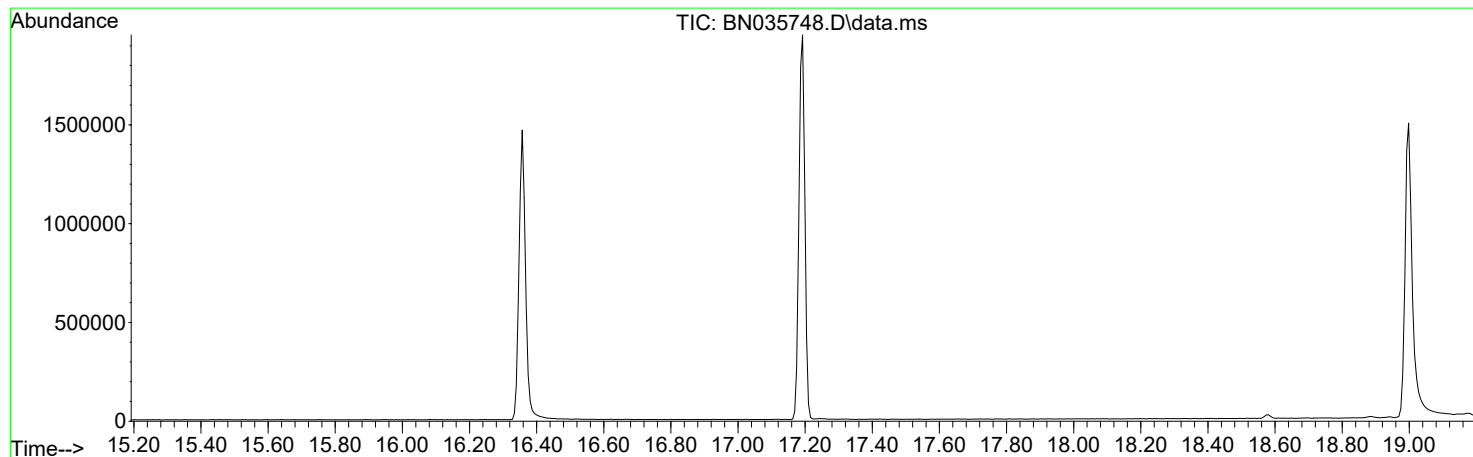
| Date          | Instrument Name  | DFTPP Data File    |
|---------------|------------------|--------------------|
| 12/19/2024    | BNA_N            | <u>BN035730.D</u>  |
|               |                  |                    |
|               |                  |                    |
| Compound Name | Response         | Retention Time     |
|               |                  |                    |
| DDT           | 433840           | 20.257             |
| DDD           | 250906           | 19.81              |
| DDE           | 2152             | 19.292             |
|               |                  |                    |
|               |                  |                    |
| SUM(DDD+DDE)  | SUM(DDT+DDD+DDE) | % Breakdown Of DDT |
|               |                  |                    |
| 253058        | 686898           | 36.84              |
|               |                  |                    |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN121924\  
Data File : BN035748.D  
Acq On : 20 Dec 2024 18:54  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 39 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
Last Update : Thu Dec 19 23:06:19 2024



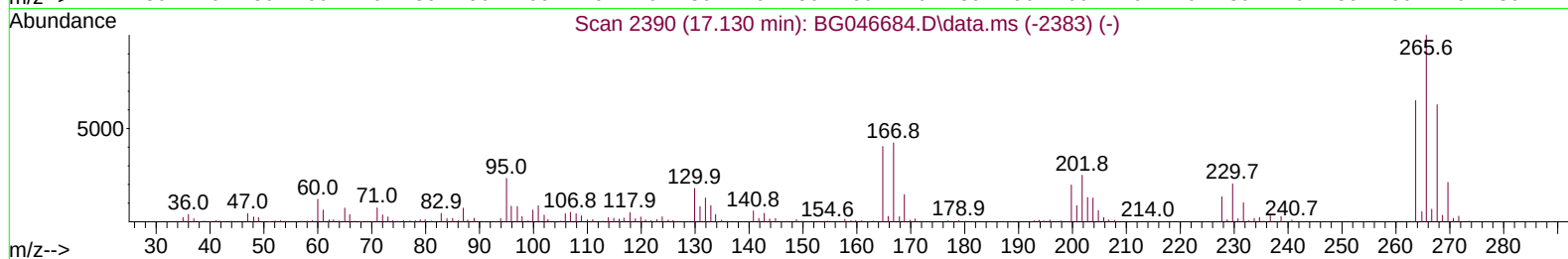
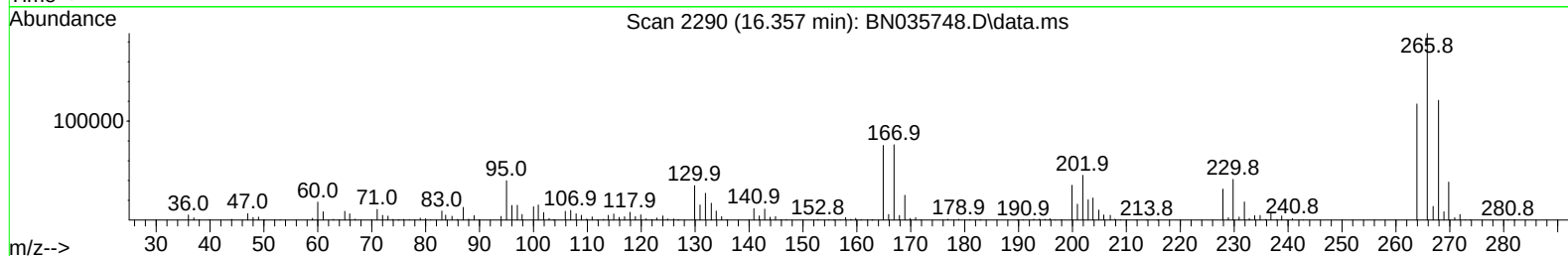
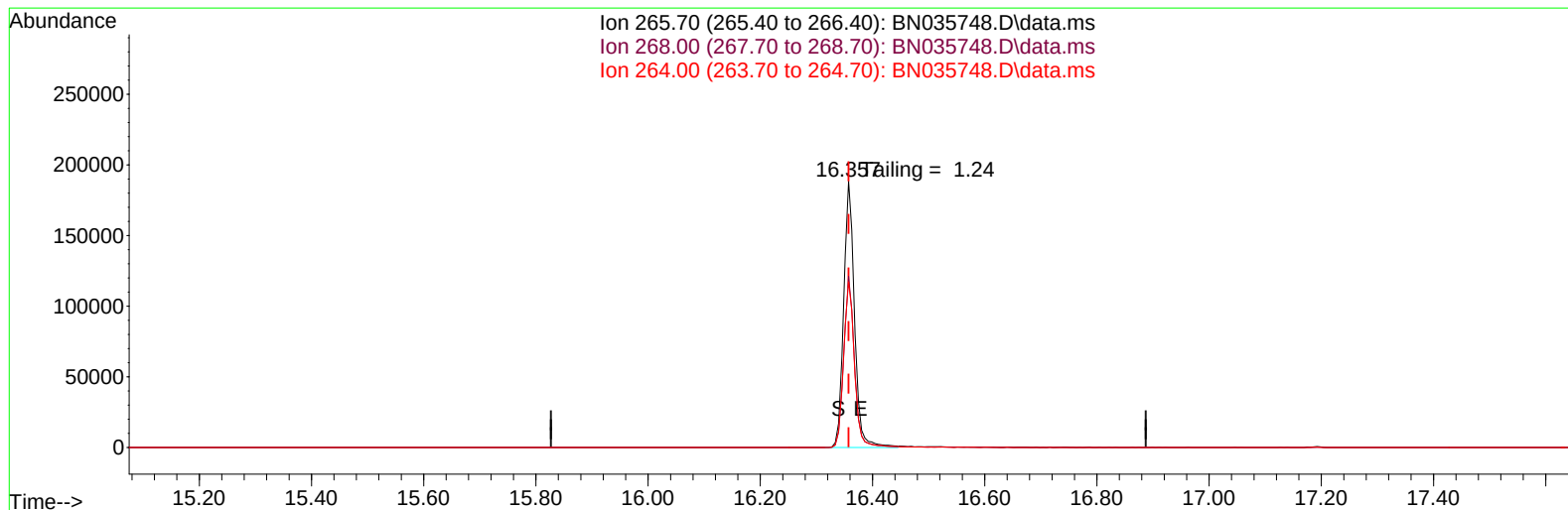
AutoFind: Scans 2431, 2432, 2433; Background Corrected with Scan 2424

| 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              | 21.2         | 43029      | PASS                |
| 68             | 69              | 0.00            | 2               | 0.0          | 0          | PASS                |
| 69             | 198             | 0.00            | 100             | 30.0         | 60827      | PASS                |
| 70             | 69              | 0.00            | 2               | 0.5          | 295        | PASS                |
| 127            | 198             | 10              | 80              | 37.7         | 76443      | PASS                |
| 197            | 198             | 0.00            | 2               | 0.0          | 0          | PASS                |
| 198            | 198             | 100             | 100             | 100.0        | 202901     | PASS                |
| 199            | 198             | 5               | 9               | 7.0          | 14189      | PASS                |
| 275            | 198             | 10              | 60              | 29.5         | 59856      | PASS                |
| 365            | 198             | 1               | 100             | 4.0          | 8044       | PASS                |
| 441            | 198             | 0.01            | 100             | 13.1         | 26624      | PASS                |
| 442            | 442             | 50              | 100             | 100.0        | 162944     | PASS                |
| 443            | 442             | 15              | 24              | 19.1         | 31128      | PASS                |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN121924\  
Data File : BN035748.D  
Acq On : 20 Dec 2024 18:54  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 39 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

Quant Time: Dec 21 02:12:58 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270E-Tune.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sat Dec 21 02:12:53 2024  
Response via : Initial Calibration



TIC: BN035748.D\data.ms

**(70) Pentachlorophenol (C)**

16.357min ( 0.000) 26492.80 ng

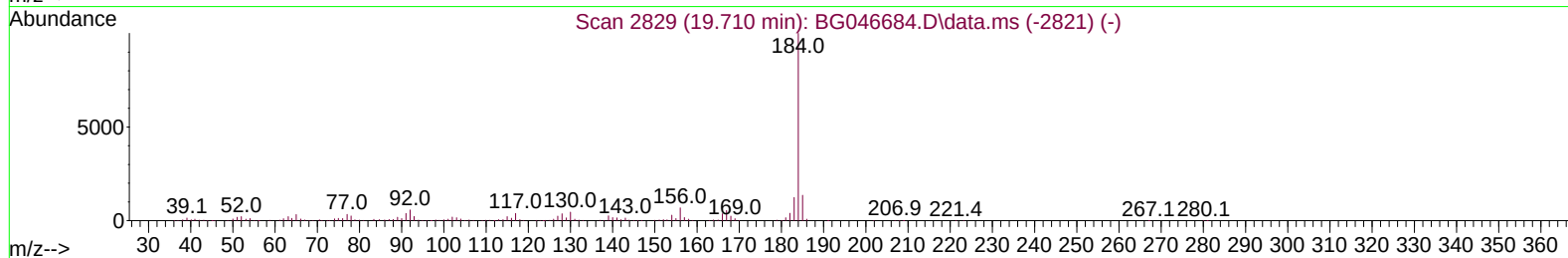
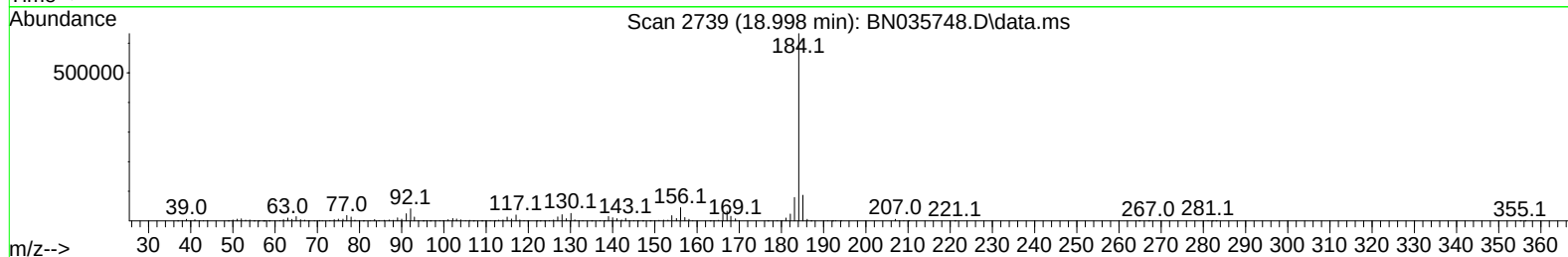
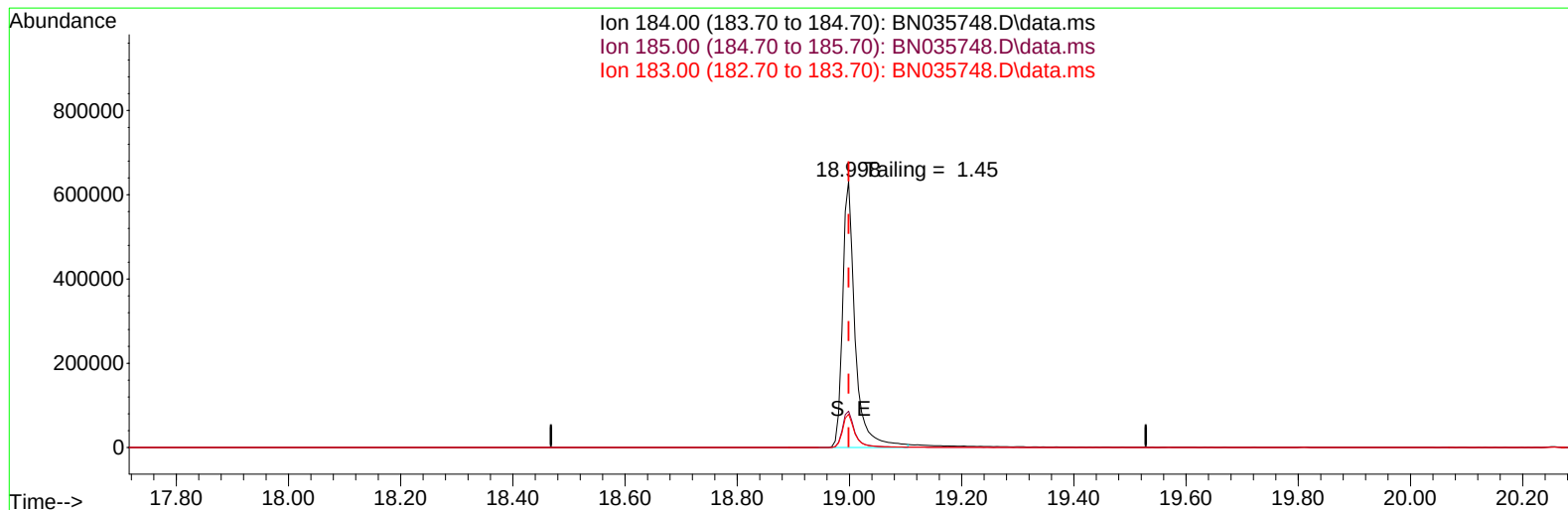
response 255312

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 265.70 | 100.00 | 100.00 |
| 268.00 | 62.20  | 64.24  |
| 264.00 | 61.60  | 62.22  |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN121924\  
Data File : BN035748.D  
Acq On : 20 Dec 2024 18:54  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 39 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

Quant Time: Dec 21 02:12:58 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270E-Tune.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sat Dec 21 02:12:53 2024  
Response via : Initial Calibration



TIC: BN035748.D\data.ms

**(77) Benzidine**

18.998min ( 0.000) 0.00 ng

response 1005370

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 184.00 | 100.00 | 100.00 |
| 185.00 | 15.50  | 13.70  |
| 183.00 | 13.20  | 12.52  |
| 0.00   | 0.00   | 0.00   |

**Instrument :**  
BNA\_N  
**ClientSampleId :**  
DFTPP

**DDT Breakdown**

| Date          | Instrument Name  | DFTPP Data File    |
|---------------|------------------|--------------------|
| 12/19/2024    | BNA_N            | <u>BN035748.D</u>  |
|               |                  |                    |
|               |                  |                    |
| Compound Name | Response         | Retention Time     |
|               |                  |                    |
| DDT           | 418200           | 20.257             |
| DDD           | 184217           | 19.816             |
| DDE           | 2622             | 19.292             |
|               |                  |                    |
|               |                  |                    |
| SUM(DDD+DDE)  | SUM(DDT+DDD+DDE) | % Breakdown Of DDT |
|               |                  |                    |
| 186839        | 605039           | 30.88              |
|               |                  |                    |

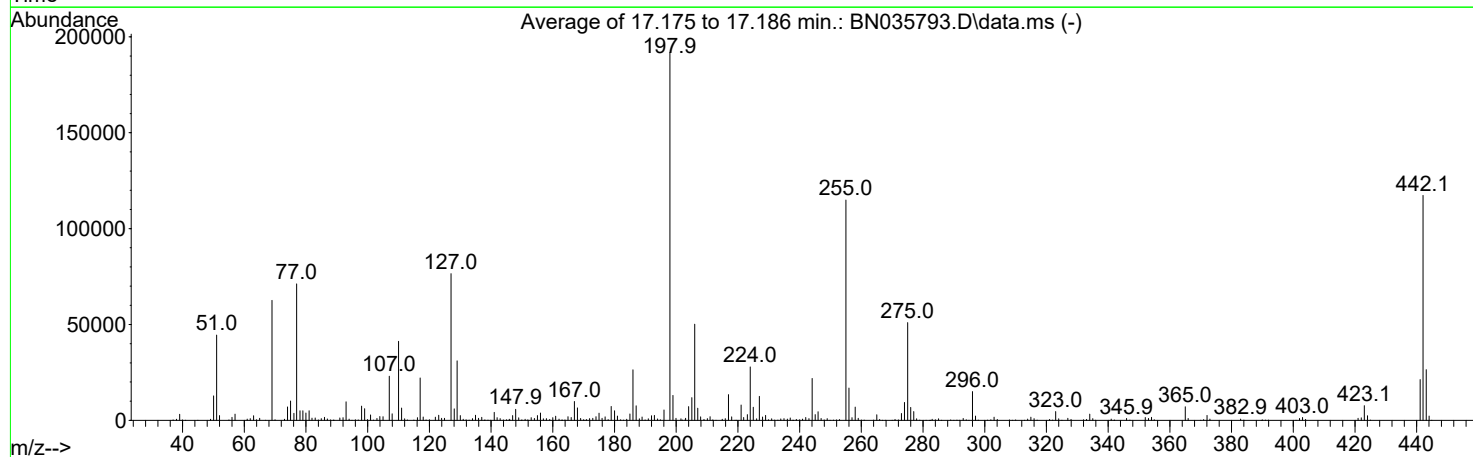
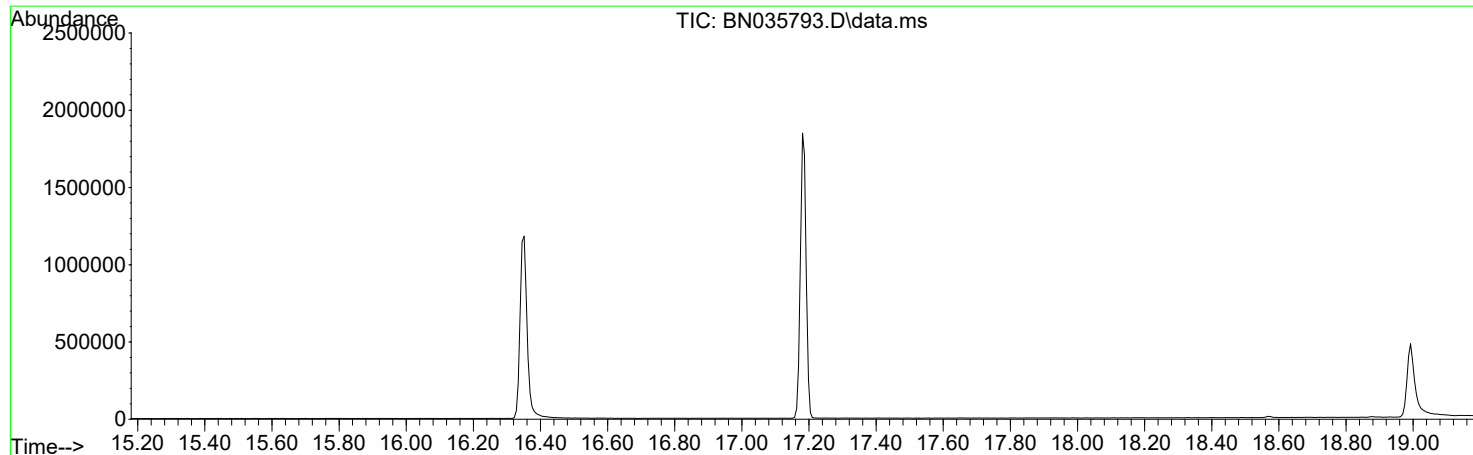


Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN122324\  
Data File : BN035793.D  
Acq On : 23 Dec 2024 20:26  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 75 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
Last Update : Thu Dec 19 23:06:19 2024



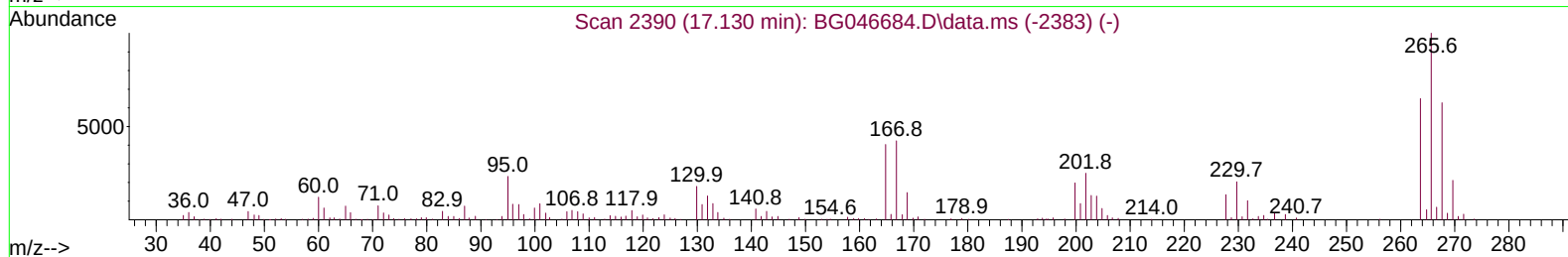
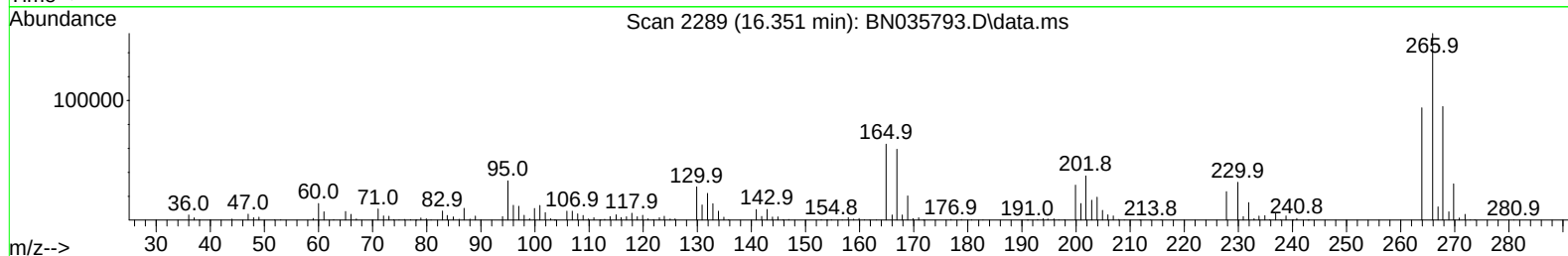
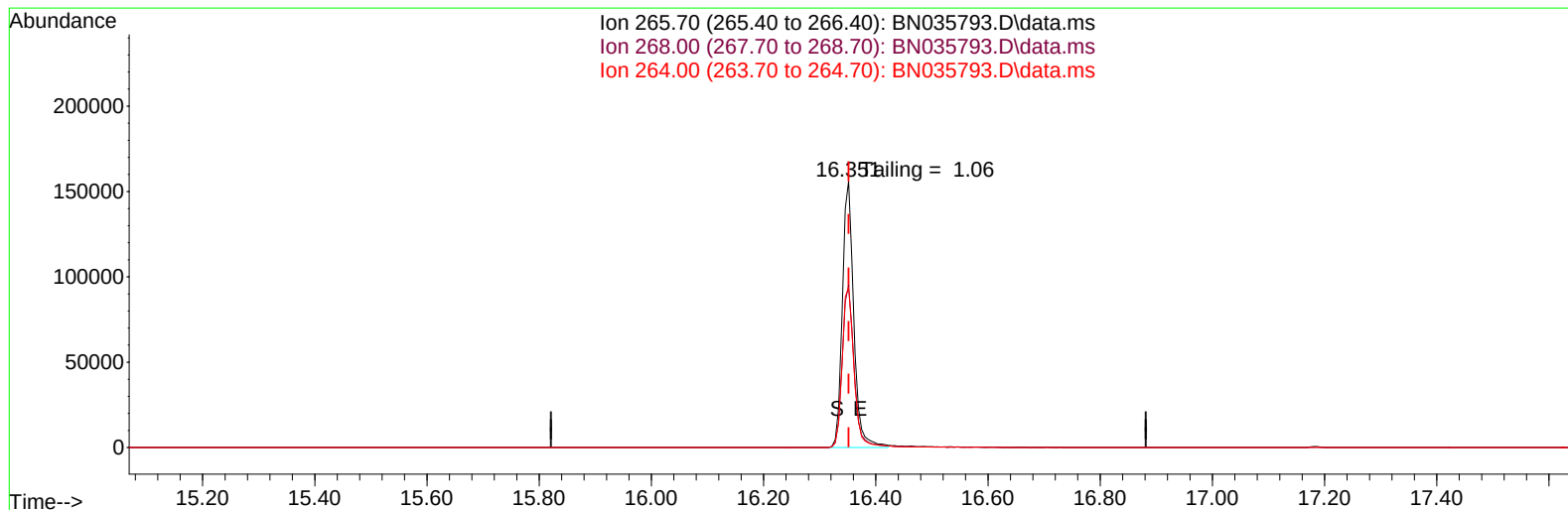
AutoFind: Scans 2429, 2430, 2431; Background Corrected with Scan 2423

| Target | Rel. to | Lower  | Upper  | Rel.  | Raw    | Result    |
|--------|---------|--------|--------|-------|--------|-----------|
| Mass   | Mass    | Limit% | Limit% | Abn%  | Abn    | Pass/Fail |
| 51     | 198     | 10     | 80     | 23.2  | 44520  | PASS      |
| 68     | 69      | 0.00   | 2      | 0.0   | 0      | PASS      |
| 69     | 198     | 0.00   | 100    | 32.6  | 62576  | PASS      |
| 70     | 69      | 0.00   | 2      | 0.6   | 362    | PASS      |
| 127    | 198     | 10     | 80     | 39.9  | 76520  | PASS      |
| 197    | 198     | 0.00   | 2      | 0.0   | 0      | PASS      |
| 198    | 198     | 100    | 100    | 100.0 | 191851 | PASS      |
| 199    | 198     | 5      | 9      | 6.8   | 13033  | PASS      |
| 275    | 198     | 10     | 60     | 26.6  | 50979  | PASS      |
| 365    | 198     | 1      | 100    | 3.7   | 7105   | PASS      |
| 441    | 198     | 0.01   | 100    | 11.1  | 21259  | PASS      |
| 442    | 442     | 50     | 100    | 100.0 | 117307 | PASS      |
| 443    | 442     | 15     | 24     | 22.6  | 26498  | PASS      |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN122324\  
Data File : BN035793.D  
Acq On : 23 Dec 2024 20:26  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 75 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

Quant Time: Dec 24 06:28:14 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270E-Tune.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Dec 24 06:28:04 2024  
Response via : Initial Calibration



TIC: BN035793.D\data.ms

**(70) Pentachlorophenol (C)**

16.351min ( 0.000) 22129.06 ng

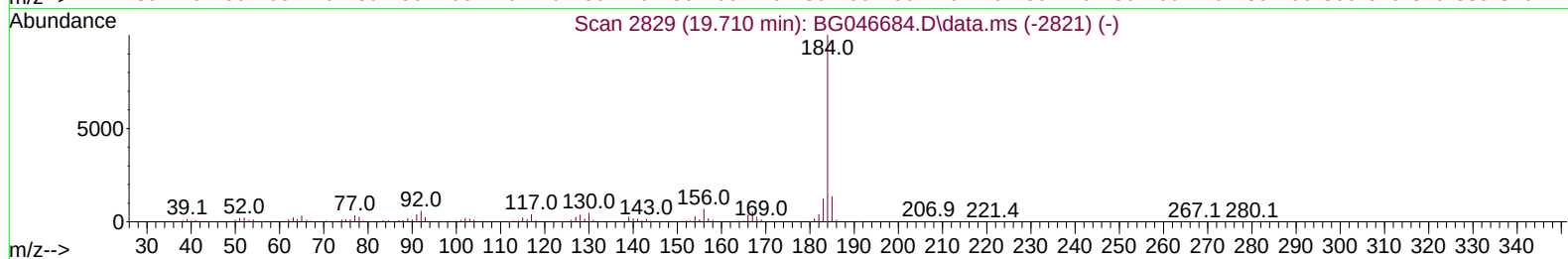
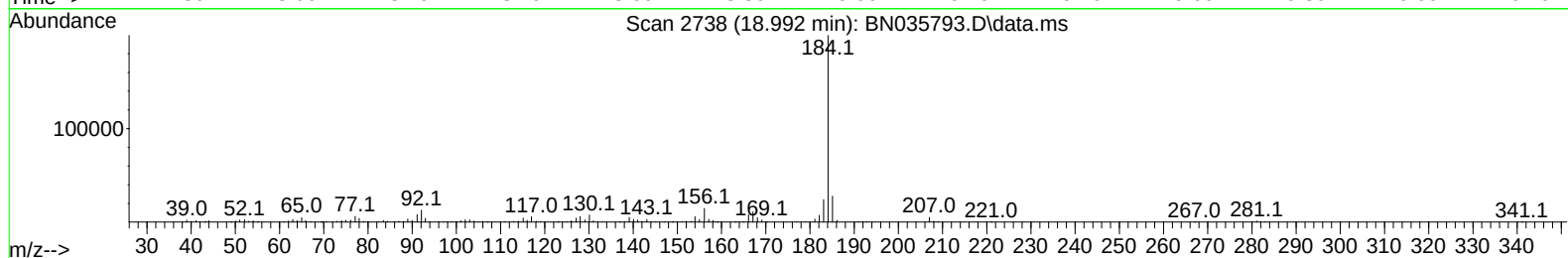
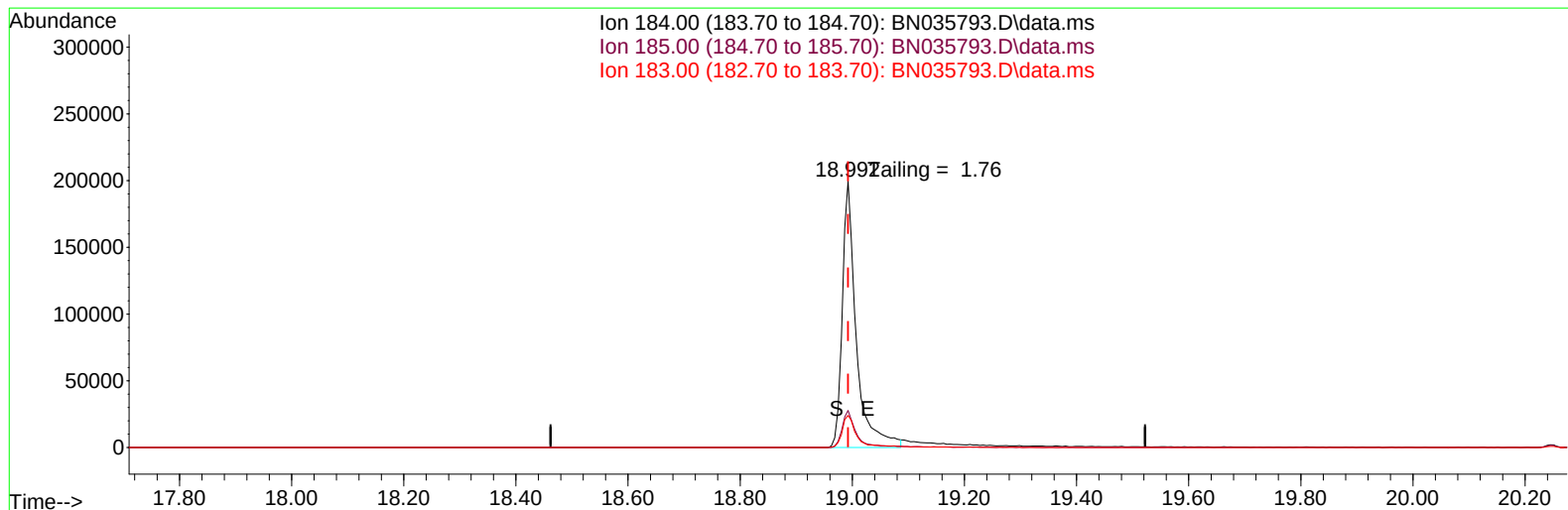
response 222810

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 265.70 | 100.00 | 100.00 |
| 268.00 | 62.20  | 60.87  |
| 264.00 | 61.60  | 60.23  |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN122324\  
Data File : BN035793.D  
Acq On : 23 Dec 2024 20:26  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 75 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

Quant Time: Dec 24 06:28:14 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270E-Tune.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Dec 24 06:28:04 2024  
Response via : Initial Calibration



TIC: BN035793.D\data.ms

**(77) Benzidine**

18.992min ( 0.000) 0.00 ng

response 368634

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 184.00 | 100.00 | 100.00 |
| 185.00 | 15.50  | 13.92  |
| 183.00 | 13.20  | 12.06  |
| 0.00   | 0.00   | 0.00   |

**Instrument :**  
BNA\_N  
**ClientSampleId :**  
DFTPP

**DDT Breakdown**

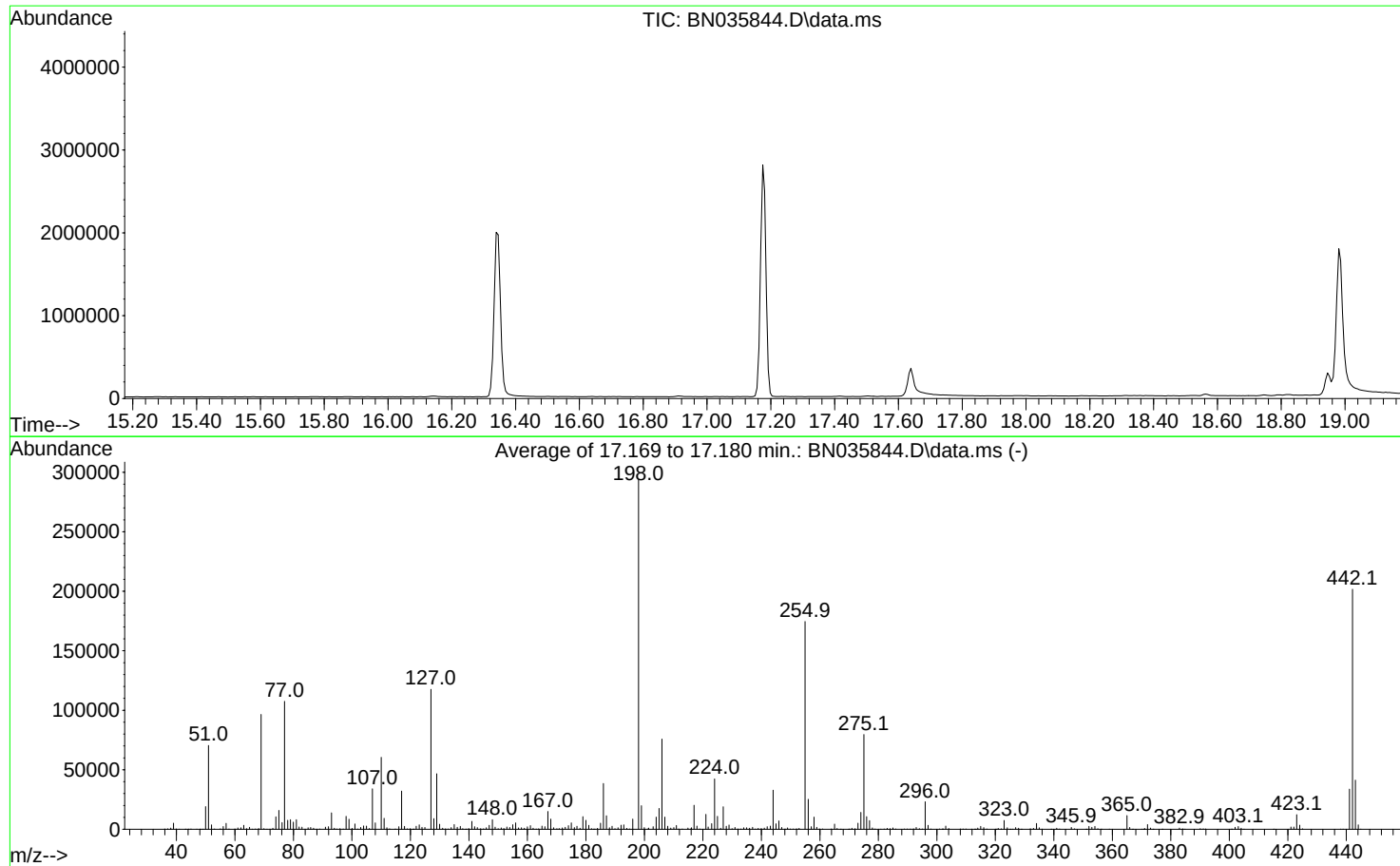
| Date          | Instrument Name  | DFTPP Data File    |
|---------------|------------------|--------------------|
| 12/23/2024    | BNA_N            | <u>BN035793.D</u>  |
|               |                  |                    |
|               |                  |                    |
| Compound Name | Response         | Retention Time     |
|               |                  |                    |
| DDT           | 527491           | 20.245             |
| DDD           | 59938            | 19.804             |
| DDE           | 3046             | 19.286             |
|               |                  |                    |
|               |                  |                    |
| SUM(DDD+DDE)  | SUM(DDT+DDD+DDE) | % Breakdown Of DDT |
|               |                  |                    |
| 62984         | 590475           | 10.67              |
|               |                  |                    |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN122624\  
Data File : BN035844.D  
Acq On : 26 Dec 2024 09:19  
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-BN112724.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
Last Update : Thu Dec 19 23:06:19 2024



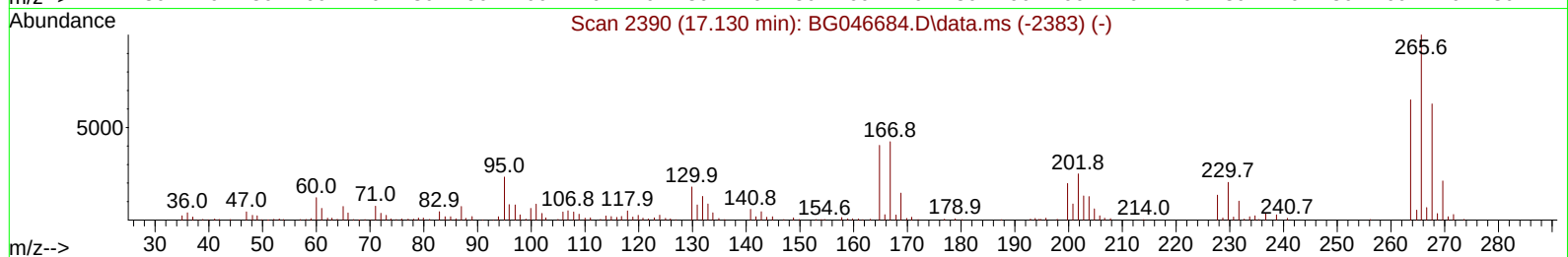
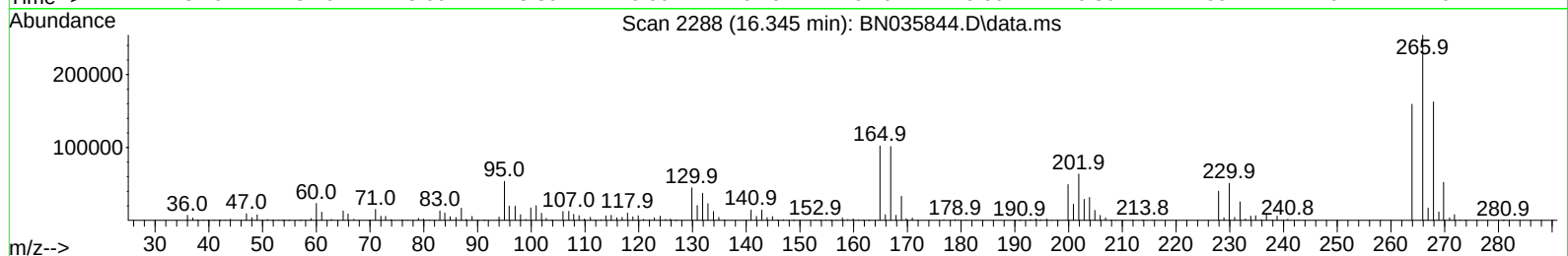
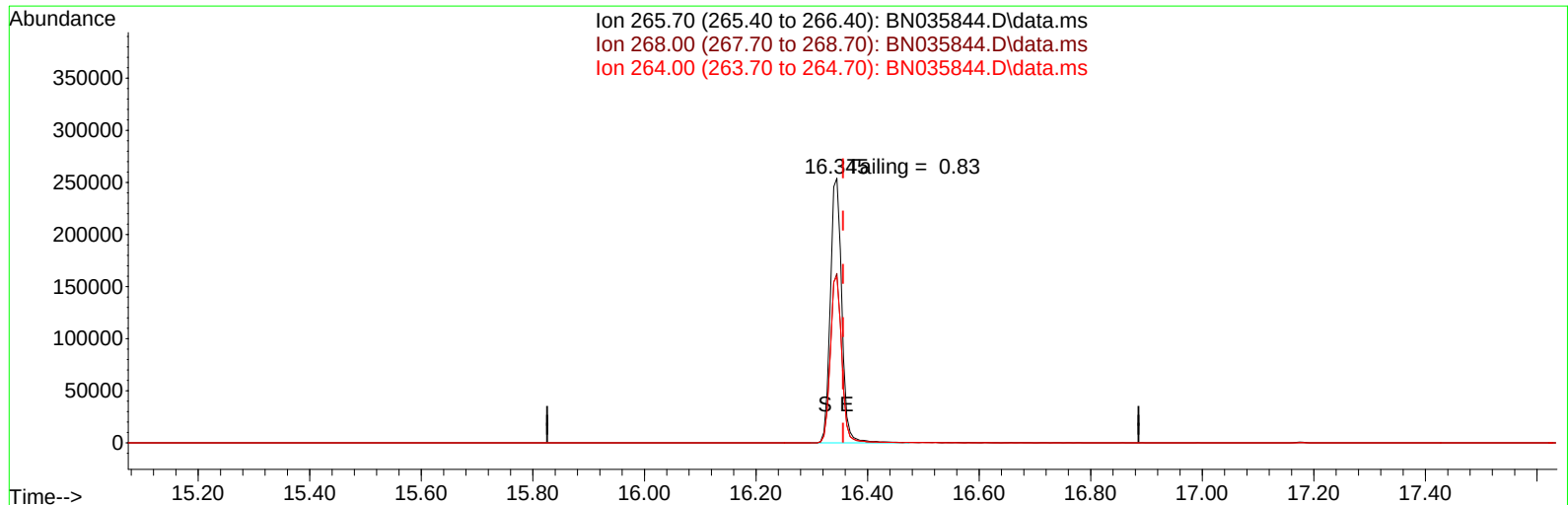
AutoFind: Scans 2428, 2429, 2430; Background Corrected with Scan 2422

| Target | Rel. to | Lower  | Upper  | Rel.  | Raw    | Result    |
|--------|---------|--------|--------|-------|--------|-----------|
| Mass   | Mass    | Limit% | Limit% | Abn%  | Abn    | Pass/Fail |
| 51     | 198     | 10     | 80     | 24.0  | 70451  | PASS      |
| 68     | 69      | 0.00   | 2      | 0.6   | 610    | PASS      |
| 69     | 198     | 0.00   | 100    | 32.9  | 96557  | PASS      |
| 70     | 69      | 0.00   | 2      | 0.5   | 480    | PASS      |
| 127    | 198     | 10     | 80     | 40.0  | 117549 | PASS      |
| 197    | 198     | 0.00   | 2      | 0.0   | 0      | PASS      |
| 198    | 198     | 100    | 100    | 100.0 | 293824 | PASS      |
| 199    | 198     | 5      | 9      | 6.7   | 19833  | PASS      |
| 275    | 198     | 10     | 60     | 27.1  | 79648  | PASS      |
| 365    | 198     | 1      | 100    | 3.9   | 11517  | PASS      |
| 441    | 198     | 0.01   | 100    | 11.5  | 33733  | PASS      |
| 442    | 442     | 50     | 100    | 100.0 | 201656 | PASS      |
| 443    | 442     | 15     | 24     | 20.5  | 41285  | PASS      |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN122624\  
Data File : BN035844.D  
Acq On : 26 Dec 2024 09:19  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

Quant Time: Dec 26 18:22:22 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270E-Tune.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Dec 25 04:23:53 2024  
Response via : Initial Calibration



TIC: BN035844.D\data.ms

**(70) Pentachlorophenol (C)**

16.345min (-0.011) 24950.02 ng

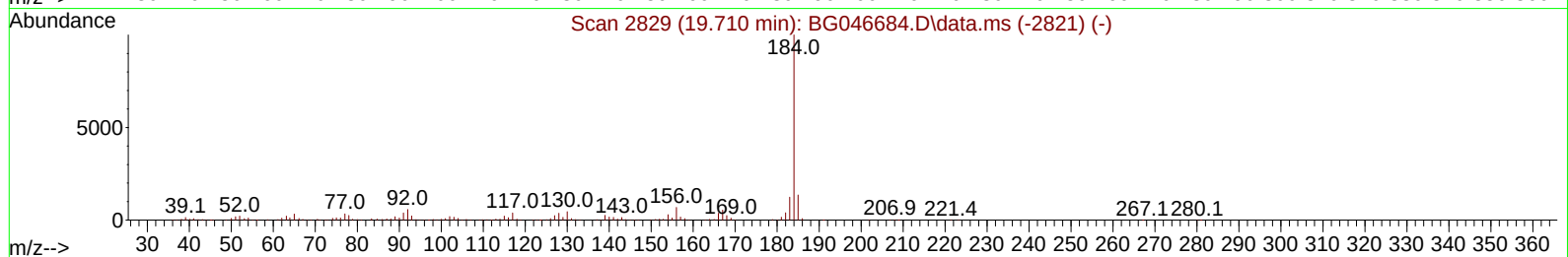
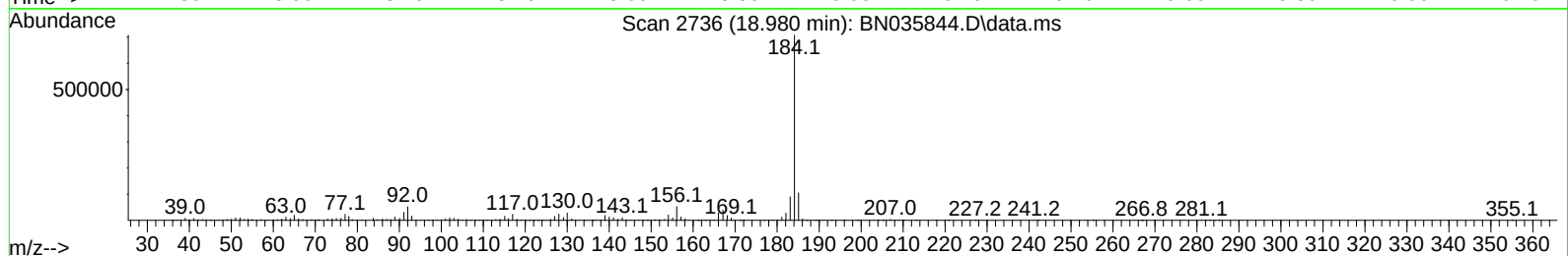
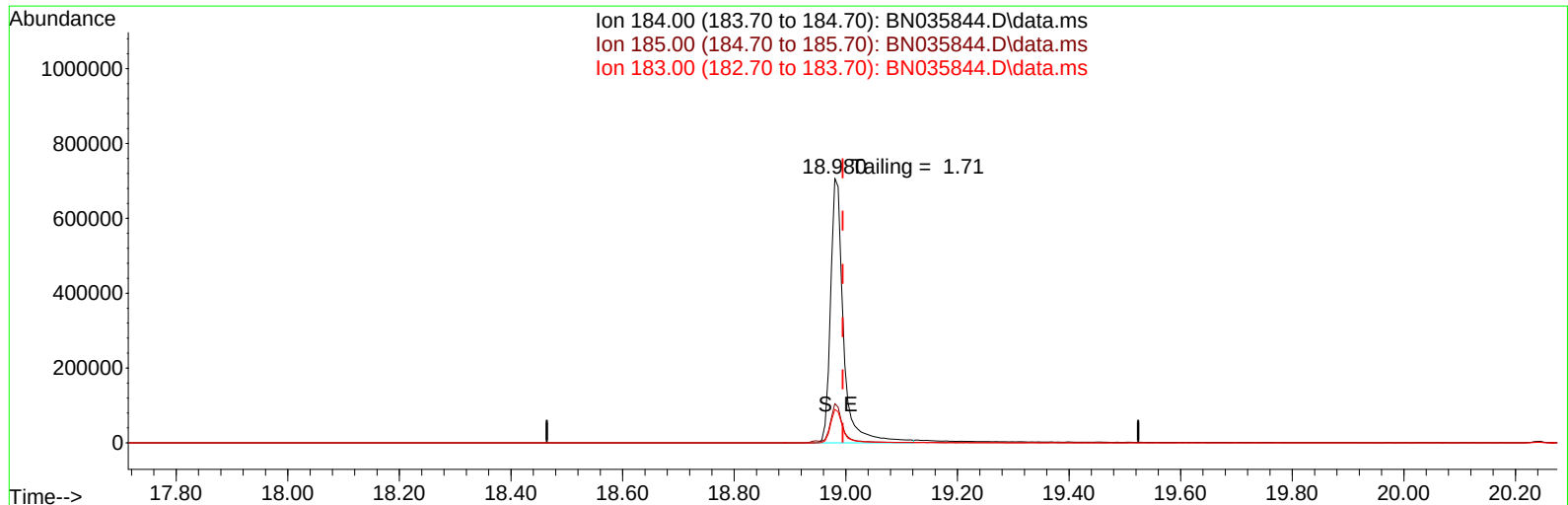
response 363016

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 265.70 | 100.00 | 100.00 |
| 268.00 | 62.20  | 64.03  |
| 264.00 | 61.60  | 62.72  |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN122624\  
Data File : BN035844.D  
Acq On : 26 Dec 2024 09:19  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

Quant Time: Dec 26 18:24:21 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270E-Tune.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Dec 25 04:23:53 2024  
Response via : Initial Calibration



TIC: BN035844.D\data.ms

**(77) Benzdine**

18.980min (-0.014) 0.00 ng

response 1183784

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 184.00 | 100.00 | 100.00 |
| 185.00 | 15.50  | 14.84  |
| 183.00 | 13.20  | 12.69  |
| 0.00   | 0.00   | 0.00   |

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

DDT Breakdown

| Date          | Instrument Name  | DFTPP Data File    |
|---------------|------------------|--------------------|
| 12/26/2024    | BNA_N            | <u>BN035844.D</u>  |
|               |                  |                    |
|               |                  |                    |
| Compound Name | Response         | Retention Time     |
|               |                  |                    |
| DDT           | 999259           | 20.239             |
| DDD           | 18711            | 19.798             |
| DDE           | 516              | 19.28              |
|               |                  |                    |
|               |                  |                    |
| SUM(DDD+DDE)  | SUM(DDT+DDD+DDE) | % Breakdown Of DDT |
|               |                  |                    |
| 19227         | 1018486          | 1.89               |
|               |                  |                    |



## Report of Analysis

|                    |                        |                 |                |
|--------------------|------------------------|-----------------|----------------|
| Client:            | Tetra Tech NUS, Inc.   | Date Collected: |                |
| Project:           | CTO WE13               | Date Received:  |                |
| Client Sample ID:  | PB165667BL             | SDG No.:        | P5284          |
| Lab Sample ID:     | PB165667BL             | Matrix:         | Water          |
| Analytical Method: | SW8270ESIM             | % Solid:        | 0              |
| Sample Wt/Vol:     | 1000      Units:    mL | Final Vol:      | 1000      uL   |
| Soil Aliquot Vol:  | uL                     | Test:           | SVOC-SIMGroup1 |
| Extraction Type :  | Decanted :    N        | Level :         | LOW            |
| Injection Volume : | GPC Factor :    1.0    | GPC Cleanup :   | N      PH :    |
| Prep Method :      |                        |                 |                |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BN035795.D        | 1         | 12/16/24 11:30 | 12/23/24 22:52 | PB165667      |

| CAS Number                | Parameter               | Conc. | Qualifier | MDL      | LOD  | LOQ / CRQL | Units    |
|---------------------------|-------------------------|-------|-----------|----------|------|------------|----------|
| <b>TARGETS</b>            |                         |       |           |          |      |            |          |
| 123-91-1                  | 1,4-Dioxane             | 0.20  | U         | 0.070    | 0.20 | 0.20       | ug/L     |
| <b>SURROGATES</b>         |                         |       |           |          |      |            |          |
| 7297-45-2                 | 2-Methylnaphthalene-d10 | 0.37  |           | 30 - 150 |      | 92%        | SPK: 0.4 |
| 93951-69-0                | Fluoranthene-d10        | 0.38  |           | 30 - 150 |      | 95%        | SPK: 0.4 |
| 4165-60-0                 | Nitrobenzene-d5         | 0.43  |           | 55 - 111 |      | 107%       | SPK: 0.4 |
| 321-60-8                  | 2-Fluorobiphenyl        | 0.36  |           | 53 - 106 |      | 89%        | SPK: 0.4 |
| 1718-51-0                 | Terphenyl-d14           | 0.56  | *         | 58 - 132 |      | 140%       | SPK: 0.4 |
| <b>INTERNAL STANDARDS</b> |                         |       |           |          |      |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4  | 4930  |           | 7.264    |      |            |          |
| 1146-65-2                 | Naphthalene-d8          | 11400 |           | 10.009   |      |            |          |
| 15067-26-2                | Acenaphthene-d10        | 7250  |           | 13.924   |      |            |          |
| 1517-22-2                 | Phenanthrene-d10        | 12600 |           | 16.711   |      |            |          |
| 1719-03-5                 | Chrysene-d12            | 9940  |           | 20.956   |      |            |          |
| 1520-96-3                 | Perylene-d12            | 9790  |           | 23.038   |      |            |          |

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\BN122324\  
 Data File : BN035795.D  
 Acq On : 23 Dec 2024 22:52  
 Operator : RC/JU  
 Sample : PB165667BL  
 Misc :  
 ALS Vial : 77 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 PB165667BL

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 12/24/2024  
 Supervised By :mohammad ahmed 12/26/2024

Quant Time: Dec 24 00:13:30 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Dec 19 23:06:19 2024  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|--------|------|----------|-------|-------|----------|
| -----                       |        |      |          |       |       |          |
| Internal Standards          |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.264  | 152  | 4926     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8           | 10.009 | 136  | 11442    | 0.400 | ng    | -0.01    |
| 13) Acenaphthene-d10        | 13.924 | 164  | 7253     | 0.400 | ng    | -0.01    |
| 19) Phenanthrene-d10        | 16.711 | 188  | 12605    | 0.400 | ng    | # 0.01   |
| 29) Chrysene-d12            | 20.956 | 240  | 9944     | 0.400 | ng    | # 0.00   |
| 35) Perylene-d12            | 23.038 | 264  | 9785     | 0.400 | ng    | # 0.00   |
|                             |        |      |          |       |       |          |
| System Monitoring Compounds |        |      |          |       |       |          |
| 4) 2-Fluorophenol           | 4.932  | 112  | 3783     | 0.307 | ng    | 0.00     |
| 5) Phenol-d6                | 6.484  | 99   | 3587     | 0.242 | ng    | 0.00     |
| 8) Nitrobenzene-d5          | 8.408  | 82   | 2999m    | 0.429 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10 | 11.626 | 152  | 6566     | 0.367 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol    | 15.475 | 330  | 426      | 0.083 | ng    | 0.02     |
| 15) 2-Fluorobiphenyl        | 12.549 | 172  | 9720     | 0.355 | ng    | 0.00     |
| 27) Fluoranthene-d10        | 18.761 | 212  | 13649    | 0.382 | ng    | 0.00     |
| 31) Terphenyl-d14           | 19.388 | 244  | 11020    | 0.562 | ng    | 0.00     |

Target Compounds Qvalue

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

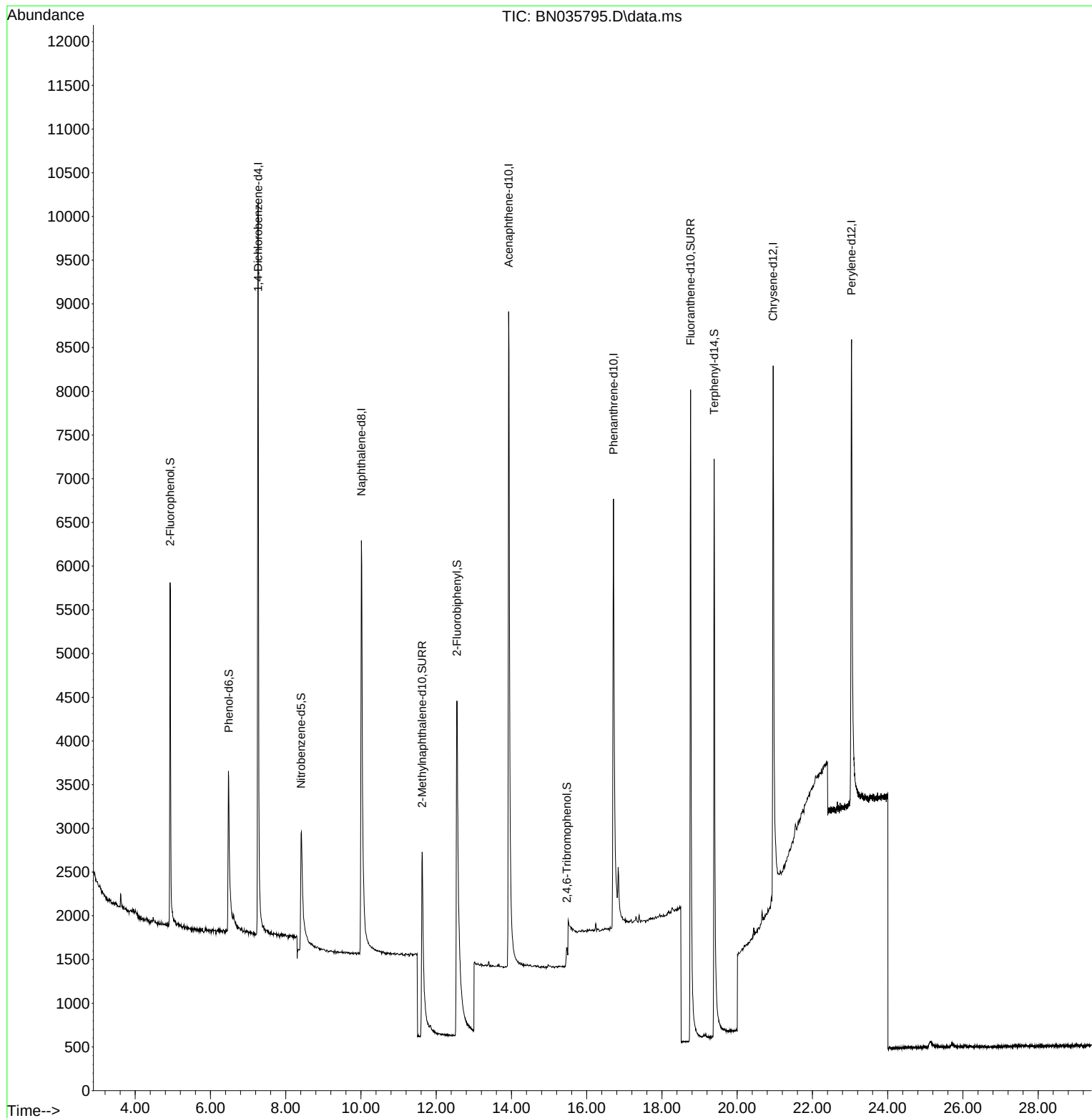
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN122324\  
Data File : BN035795.D  
Acq On : 23 Dec 2024 22:52  
Operator : RC/JU  
Sample : PB165667BL  
Misc :  
ALS Vial : 77 Sample Multiplier: 1

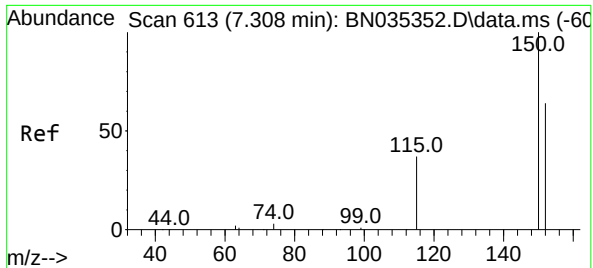
Instrument :  
BNA\_N  
ClientSampleId :  
PB165667BL

Manual Integrations  
**APPROVED**

Reviewed By :Yogesh Patel 12/24/2024  
Supervised By :mohammad ahmed 12/26/2024

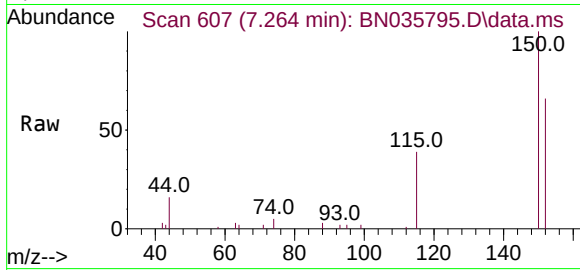
Quant Time: Dec 24 00:13:30 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Dec 19 23:06:19 2024  
Response via : Initial Calibration





#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.264 min Scan# 607  
Delta R.T. -0.008 min  
Lab File: BN035795.D  
Acq: 23 Dec 2024 22:52

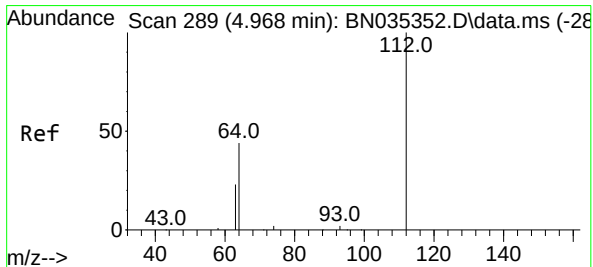
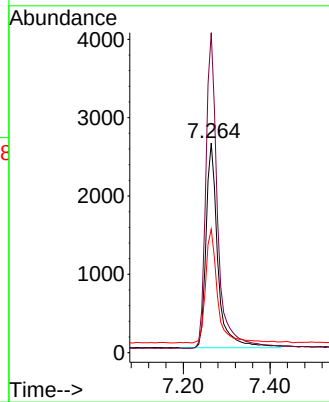
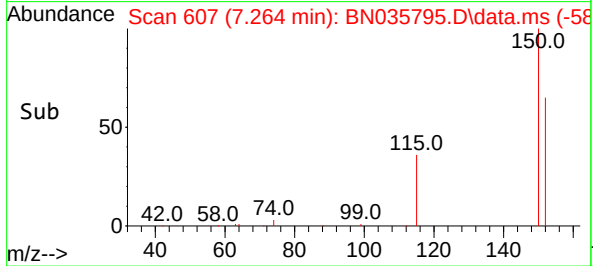
Instrument :  
BNA\_N  
ClientSampleId :  
PB165667BL



Tgt Ion:152 Resp: 4920  
Ion Ratio Lower Upper  
152 100  
150 152.7 124.0 186.0  
115 58.9 49.6 74.4

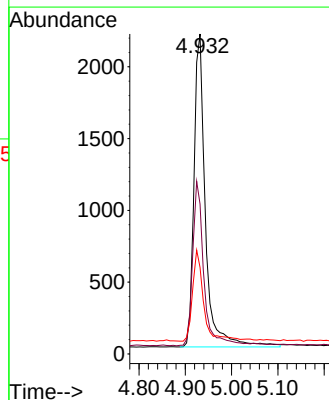
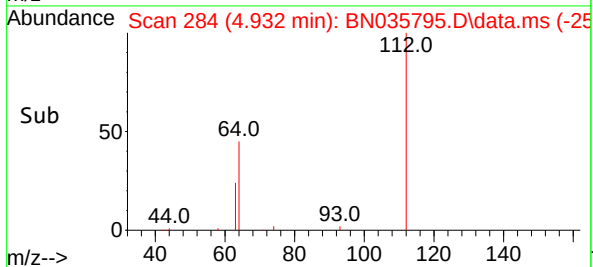
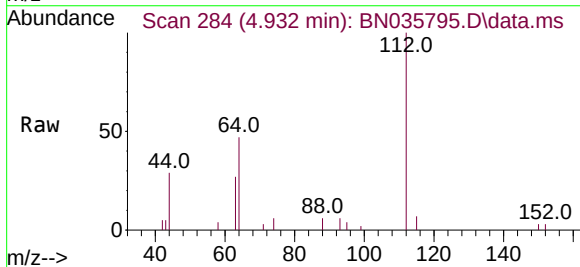
Manual Integrations  
APPROVED

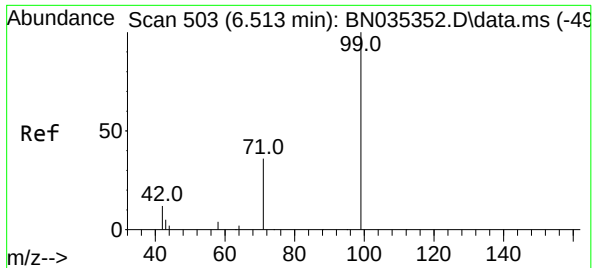
Reviewed By :Yogesh Patel 12/24/2024  
Supervised By :mohammad ahmed 12/26/2024



#4  
2-Fluorophenol  
Concen: 0.307 ng  
RT: 4.932 min Scan# 284  
Delta R.T. -0.007 min  
Lab File: BN035795.D  
Acq: 23 Dec 2024 22:52

Tgt Ion:112 Resp: 3783  
Ion Ratio Lower Upper  
112 100  
64 51.0 39.8 59.8  
63 28.0 21.0 31.6





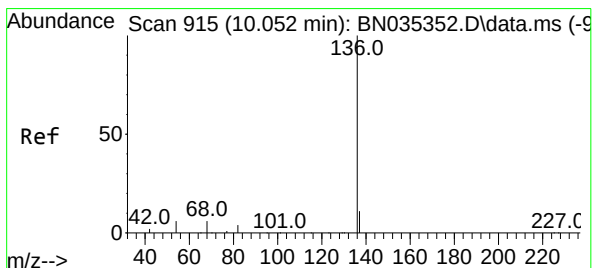
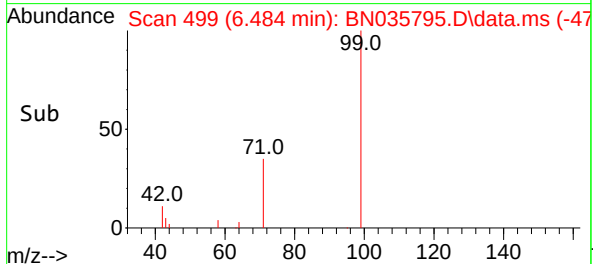
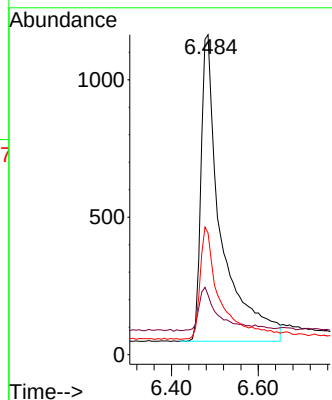
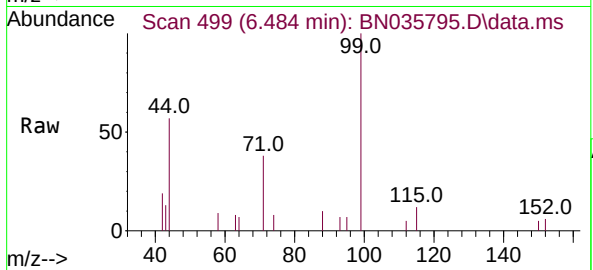
#5  
Phenol-d6  
Concen: 0.242 ng  
RT: 6.484 min Scan# 499  
Delta R.T. -0.007 min  
Lab File: BN035795.D  
Acq: 23 Dec 2024 22:52

Instrument :  
BNA\_N  
ClientSampleId :  
PB165667BL

Tgt Ion: 99 Resp: 358  
Ion Ratio Lower Upper  
99 100  
42 13.1 11.4 17.2  
71 37.0 29.3 43.9

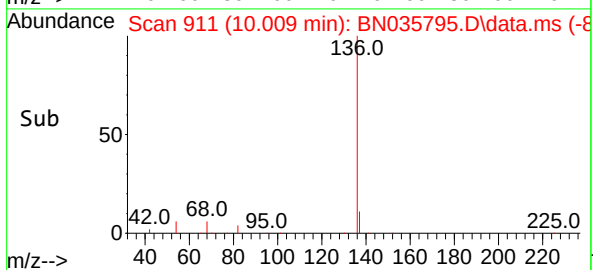
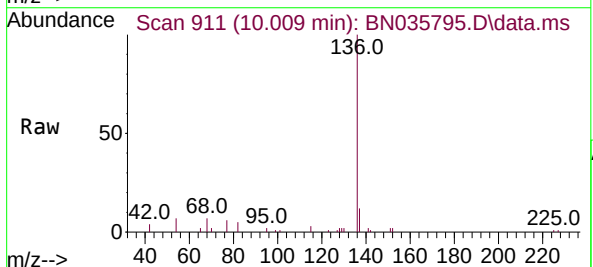
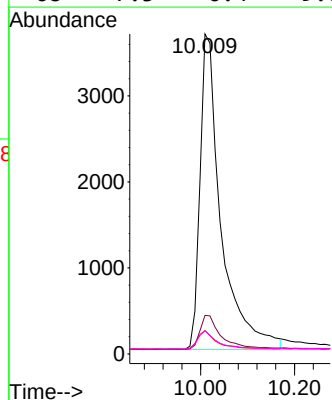
Manual Integrations  
**APPROVED**

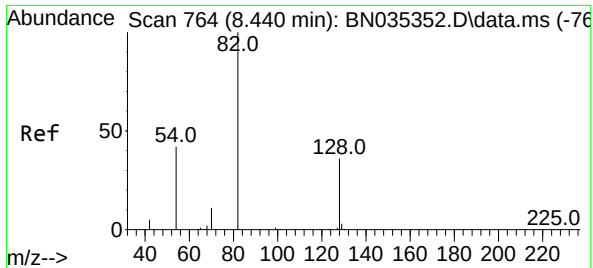
Reviewed By :Yogesh Patel 12/24/2024  
Supervised By :mohammad ahmed 12/26/2024



#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.009 min Scan# 911  
Delta R.T. -0.011 min  
Lab File: BN035795.D  
Acq: 23 Dec 2024 22:52

Tgt Ion:136 Resp: 11442  
Ion Ratio Lower Upper  
136 100  
137 12.0 10.2 15.2  
54 7.3 6.1 9.1  
68 7.3 6.4 9.6





#8  
Nitrobenzene-d5  
Concen: 0.429 ng m  
RT: 8.408 min Scan# 70  
Delta R.T. -0.000 min  
Lab File: BN035795.D  
Acq: 23 Dec 2024 22:52

Instrument :

BNA\_N

ClientSampleId :

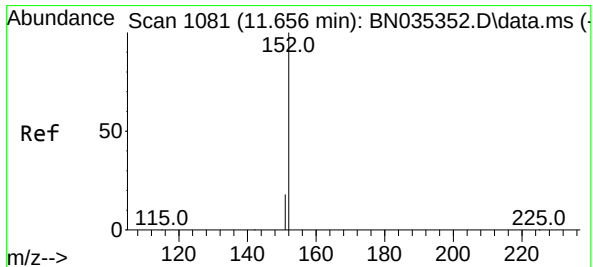
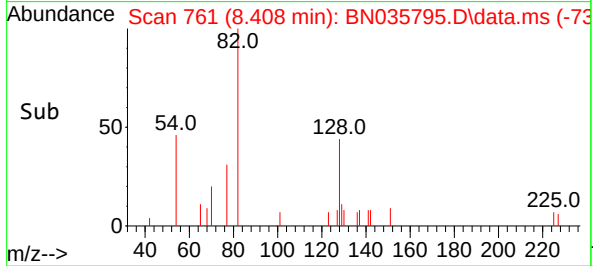
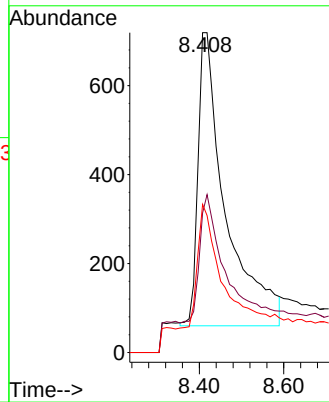
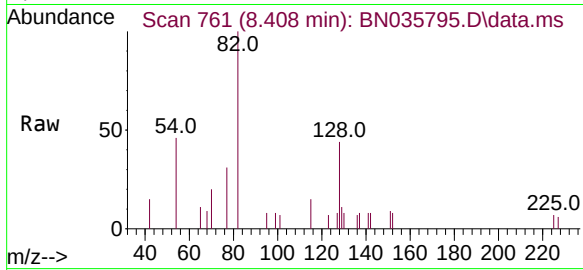
PB165667BL

Tgt Ion: 82 Resp: 2998  
Ion Ratio Lower Upper  
82 100  
128 43.7 33.4 50.0  
54 46.3 36.7 55.1

Manual Integrations

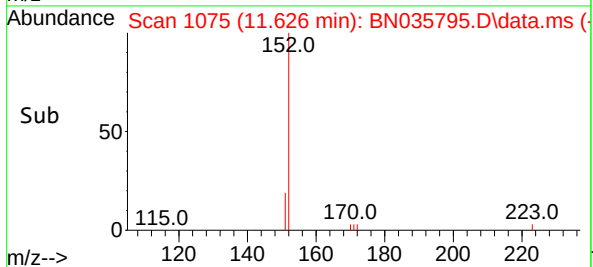
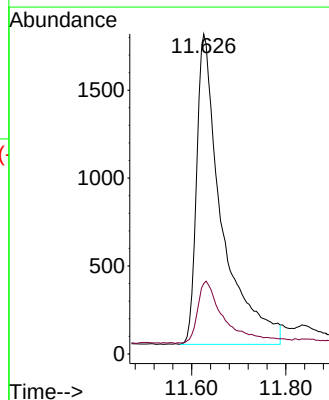
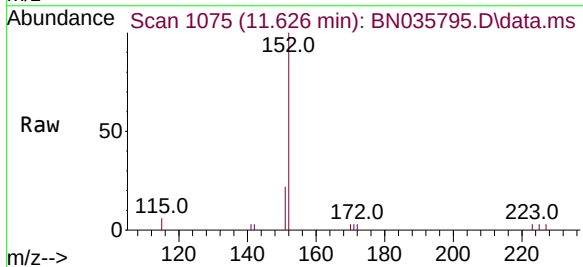
APPROVED

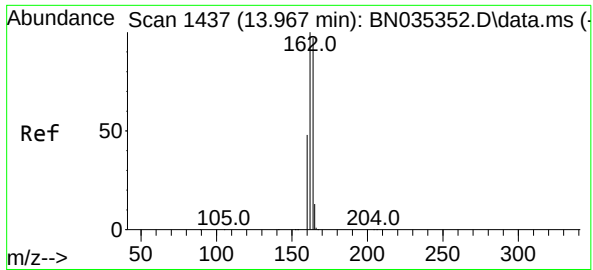
Reviewed By :Yogesh Patel 12/24/2024  
Supervised By :mohammad ahmed 12/26/2024



#11  
2-Methylnaphthalene-d10  
Concen: 0.367 ng  
RT: 11.626 min Scan# 1075  
Delta R.T. 0.005 min  
Lab File: BN035795.D  
Acq: 23 Dec 2024 22:52

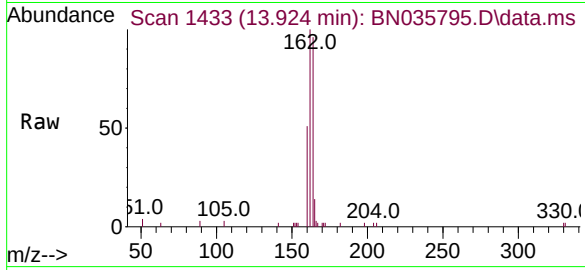
Tgt Ion:152 Resp: 6566  
Ion Ratio Lower Upper  
152 100  
151 21.2 16.6 25.0





#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.924 min Scan# 1433  
Delta R.T. -0.011 min  
Lab File: BN035795.D  
Acq: 23 Dec 2024 22:52

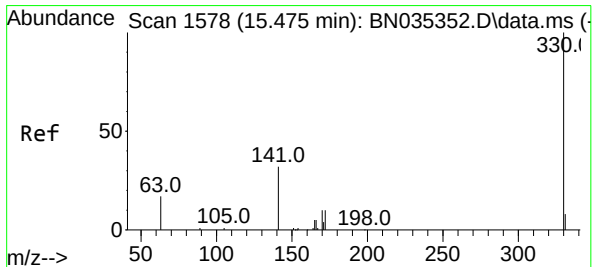
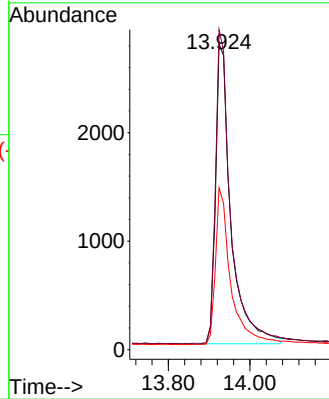
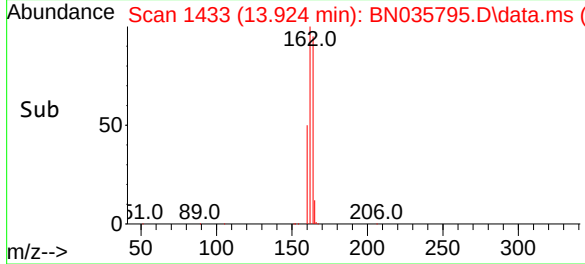
Instrument :  
BNA\_N  
ClientSampleId :  
PB165667BL



Tgt Ion:164 Resp: 725  
Ion Ratio Lower Upper  
164 100  
162 104.6 82.2 123.2  
160 52.9 40.1 60.1

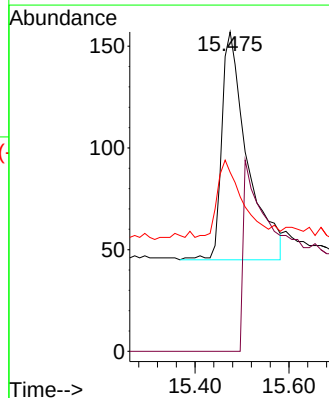
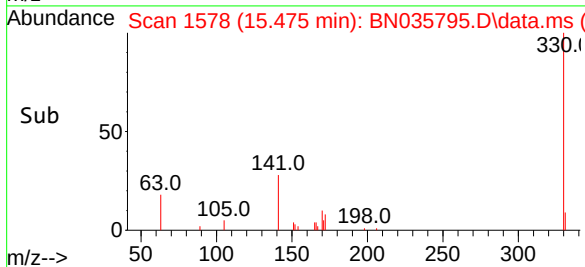
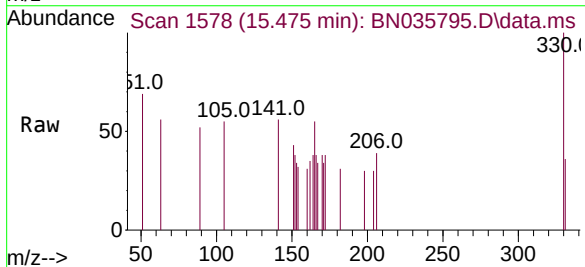
Manual Integrations  
**APPROVED**

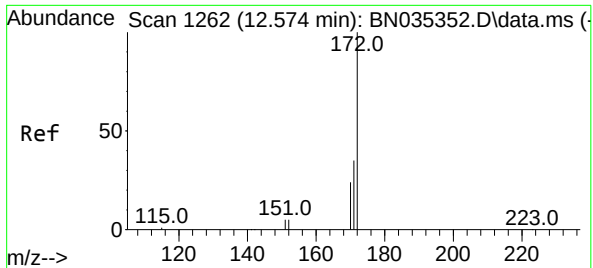
Reviewed By :Yogesh Patel 12/24/2024  
Supervised By :mohammad ahmed 12/26/2024



#14  
2,4,6-Tribromophenol  
Concen: 0.083 ng  
RT: 15.475 min Scan# 1578  
Delta R.T. 0.021 min  
Lab File: BN035795.D  
Acq: 23 Dec 2024 22:52

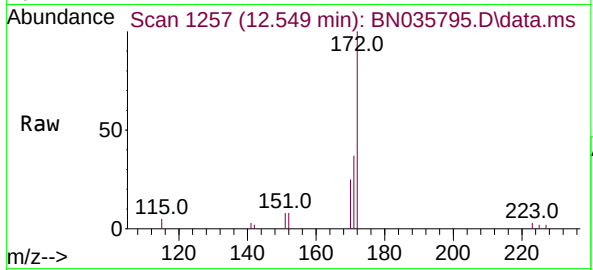
Tgt Ion:330 Resp: 426  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 32.6 26.6 40.0





#15  
2-Fluorobiphenyl  
Concen: 0.355 ng  
RT: 12.549 min Scan# 11  
Delta R.T. 0.005 min  
Lab File: BN035795.D  
Acq: 23 Dec 2024 22:52

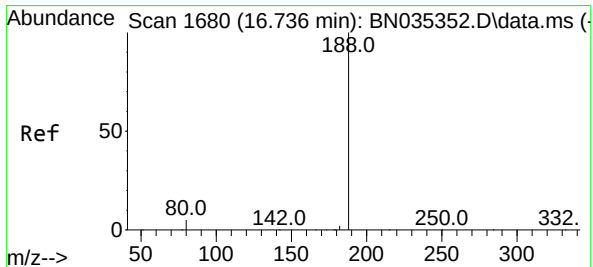
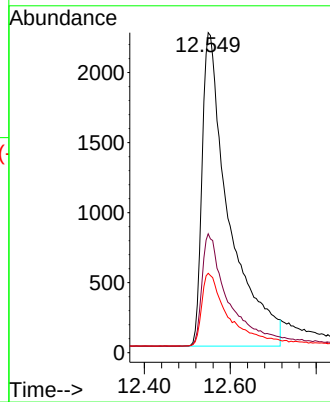
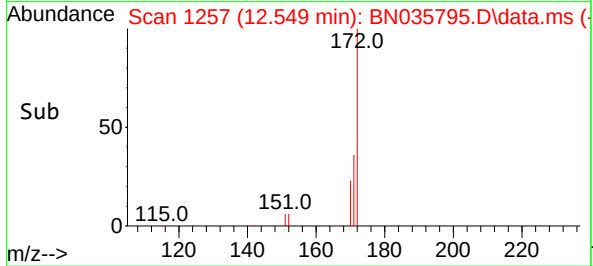
Instrument :  
BNA\_N  
ClientSampleId :  
PB165667BL



Tgt Ion:172 Resp: 9720  
Ion Ratio Lower Upper  
172 100  
171 37.2 29.0 43.4  
170 24.8 19.8 29.8

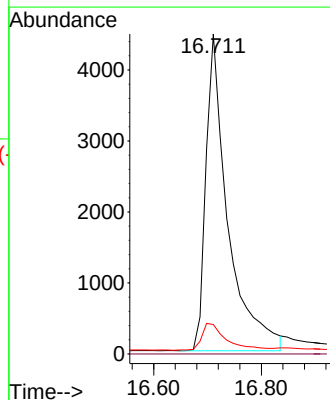
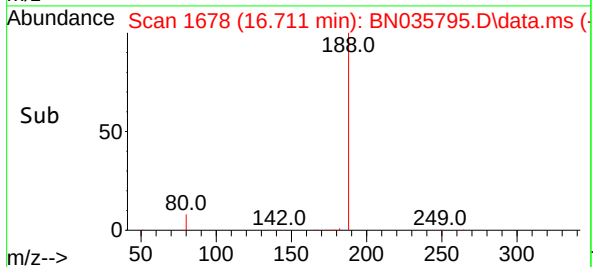
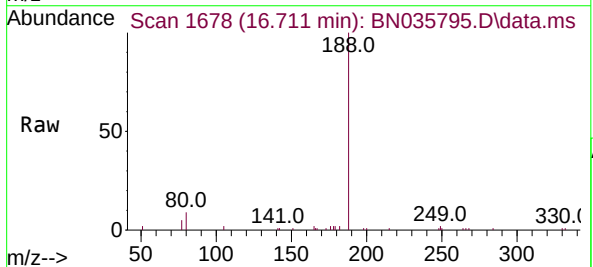
Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 12/24/2024  
Supervised By :mohammad ahmed 12/26/2024

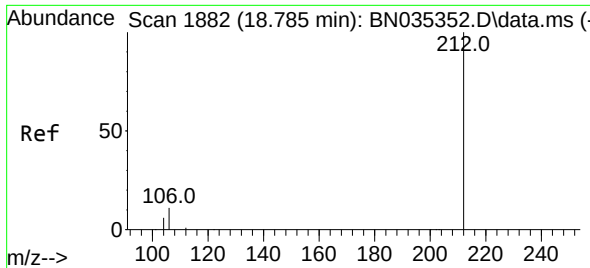


#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 16.711 min Scan# 1678  
Delta R.T. 0.012 min  
Lab File: BN035795.D  
Acq: 23 Dec 2024 22:52

Tgt Ion:188 Resp: 12605  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 9.2 4.6 6.8

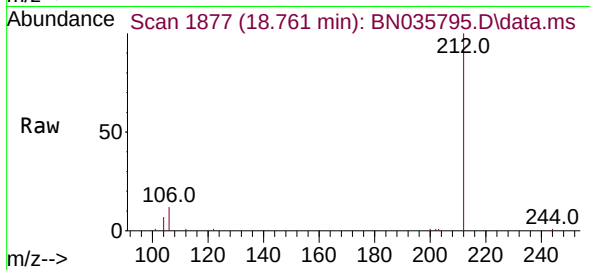






#27  
Fluoranthene-d10  
Concen: 0.382 ng  
RT: 18.761 min Scan# 1877  
Delta R.T. -0.000 min  
Lab File: BN035795.D  
Acq: 23 Dec 2024 22:52

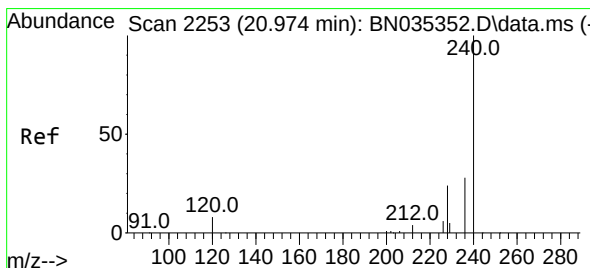
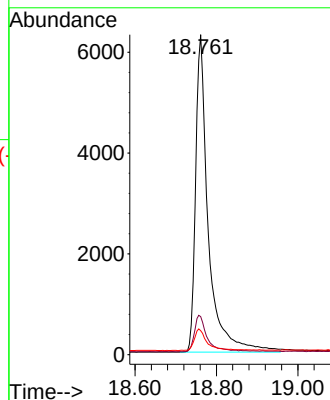
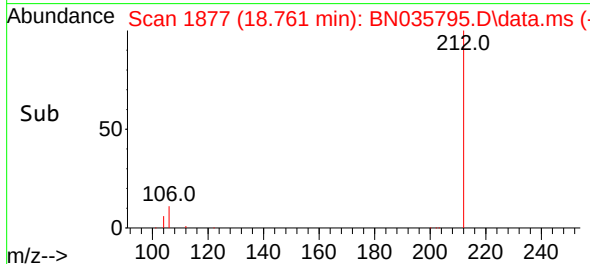
Instrument :  
BNA\_N  
ClientSampleId :  
PB165667BL



Tgt Ion:212 Resp: 13649  
Ion Ratio Lower Upper  
212 100  
106 11.8 9.2 13.8  
104 6.6 5.3 7.9

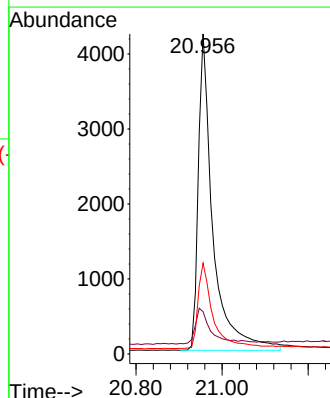
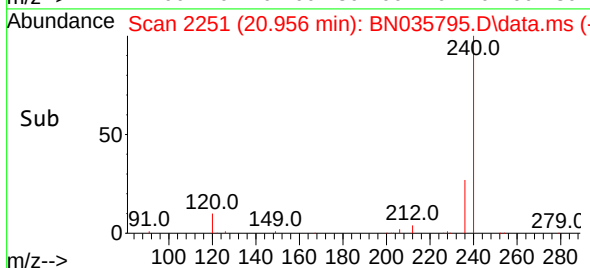
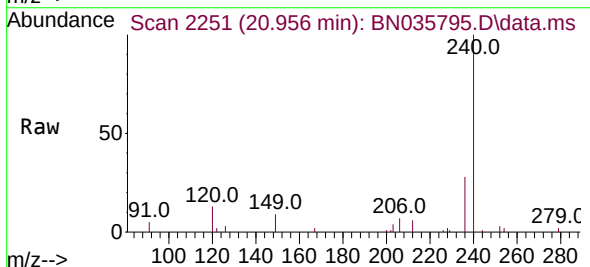
Manual Integrations  
APPROVED

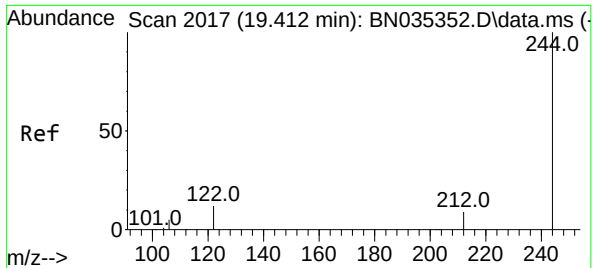
Reviewed By :Yogesh Patel 12/24/2024  
Supervised By :mohammad ahmed 12/26/2024



#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 20.956 min Scan# 2251  
Delta R.T. -0.000 min  
Lab File: BN035795.D  
Acq: 23 Dec 2024 22:52

Tgt Ion:240 Resp: 9944  
Ion Ratio Lower Upper  
240 100  
120 13.2 7.9 11.9#  
236 28.4 22.9 34.3





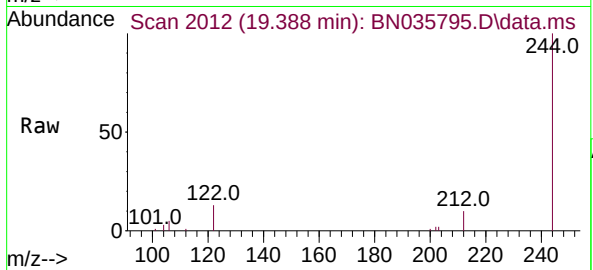
#31  
Terphenyl-d14  
Concen: 0.562 ng  
RT: 19.388 min Scan# 2017  
Delta R.T. -0.000 min  
Lab File: BN035795.D  
Acq: 23 Dec 2024 22:52

Instrument :

BNA\_N

ClientSampleId :

PB165667BL

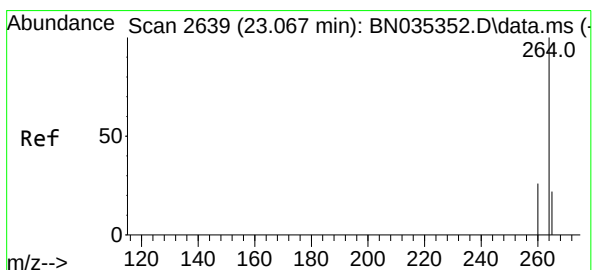
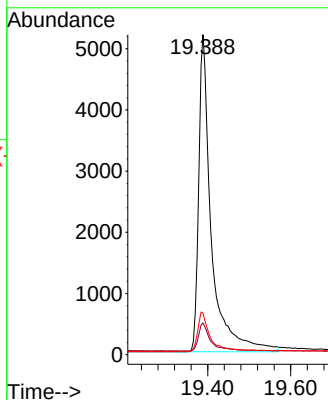
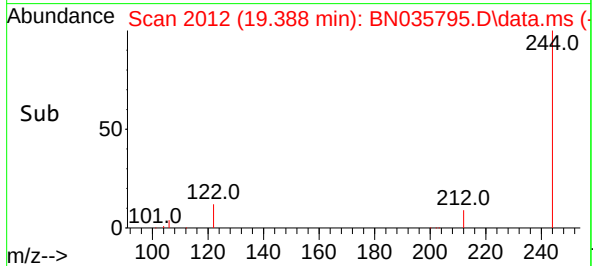


Tgt Ion:244 Resp: 11020  
Ion Ratio Lower Upper  
244 100  
212 9.9 8.1 12.1  
122 13.0 10.3 15.5

Manual Integrations

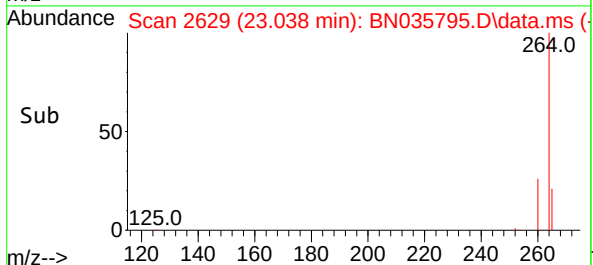
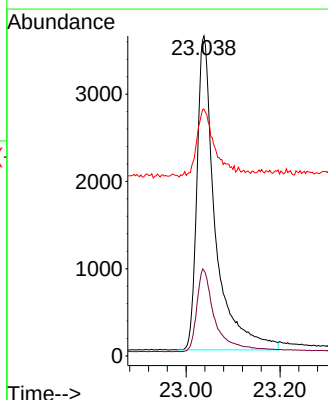
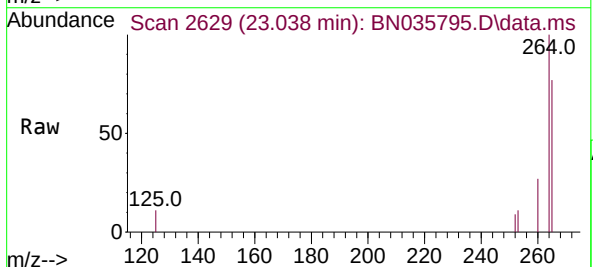
APPROVED

Reviewed By :Yogesh Patel 12/24/2024  
Supervised By :mohammad ahmed 12/26/2024



#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.038 min Scan# 2629  
Delta R.T. -0.003 min  
Lab File: BN035795.D  
Acq: 23 Dec 2024 22:52

Tgt Ion:264 Resp: 9785  
Ion Ratio Lower Upper  
264 100  
260 26.7 21.4 32.2  
265 77.1 40.2 60.4



## Report of Analysis

|                    |                        |                 |                |
|--------------------|------------------------|-----------------|----------------|
| Client:            | Tetra Tech NUS, Inc.   | Date Collected: |                |
| Project:           | CTO WE13               | Date Received:  |                |
| Client Sample ID:  | PB165667BS             | SDG No.:        | P5284          |
| Lab Sample ID:     | PB165667BS             | Matrix:         | Water          |
| Analytical Method: | SW8270ESIM             | % Solid:        | 0              |
| Sample Wt/Vol:     | 1000      Units:    mL | Final Vol:      | 1000      uL   |
| Soil Aliquot Vol:  | uL                     | Test:           | SVOC-SIMGroup1 |
| Extraction Type :  | Decanted :    N        | Level :         | LOW            |
| Injection Volume : | GPC Factor :    1.0    | GPC Cleanup :   | N      PH :    |
| Prep Method :      |                        |                 |                |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BN035808.D        | 1         | 12/16/24 11:30 | 12/24/24 06:34 | PB165667      |

| CAS Number                | Parameter               | Conc. | Qualifier | MDL      | LOD  | LOQ / CRQL | Units    |
|---------------------------|-------------------------|-------|-----------|----------|------|------------|----------|
| <b>TARGETS</b>            |                         |       |           |          |      |            |          |
| 123-91-1                  | 1,4-Dioxane             | 0.37  |           | 0.070    | 0.20 | 0.20       | ug/L     |
| <b>SURROGATES</b>         |                         |       |           |          |      |            |          |
| 7297-45-2                 | 2-Methylnaphthalene-d10 | 0.46  |           | 30 - 150 |      | 115%       | SPK: 0.4 |
| 93951-69-0                | Fluoranthene-d10        | 0.37  |           | 30 - 150 |      | 92%        | SPK: 0.4 |
| 4165-60-0                 | Nitrobenzene-d5         | 0.47  | *         | 55 - 111 |      | 116%       | SPK: 0.4 |
| 321-60-8                  | 2-Fluorobiphenyl        | 0.40  |           | 53 - 106 |      | 100%       | SPK: 0.4 |
| 1718-51-0                 | Terphenyl-d14           | 0.43  |           | 58 - 132 |      | 108%       | SPK: 0.4 |
| <b>INTERNAL STANDARDS</b> |                         |       |           |          |      |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4  | 4070  | 7.264     |          |      |            |          |
| 1146-65-2                 | Naphthalene-d8          | 9750  | 10.009    |          |      |            |          |
| 15067-26-2                | Acenaphthene-d10        | 5530  | 13.914    |          |      |            |          |
| 1517-22-2                 | Phenanthrene-d10        | 10900 | 16.698    |          |      |            |          |
| 1719-03-5                 | Chrysene-d12            | 9470  | 20.947    |          |      |            |          |
| 1520-96-3                 | Perylene-d12            | 9440  | 23.032    |          |      |            |          |

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\BN122324\  
 Data File : BN035808.D  
 Acq On : 24 Dec 2024 06:34  
 Operator : RC/JU  
 Sample : PB165667BS  
 Misc :  
 ALS Vial : 92 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 PB165667BS

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 12/24/2024  
 Supervised By :mohammad ahmed 12/26/2024

Quant Time: Dec 24 07:07:05 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Dec 19 23:06:19 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.264  | 152  | 4067     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.009 | 136  | 9754     | 0.400 | ng    | #-0.01   |
| 13) Acenaphthene-d10          | 13.914 | 164  | 5527     | 0.400 | ng    | -0.02    |
| 19) Phenanthrene-d10          | 16.698 | 188  | 10920    | 0.400 | ng    | # 0.00   |
| 29) Chrysene-d12              | 20.947 | 240  | 9467     | 0.400 | ng    | # 0.00   |
| 35) Perylene-d12              | 23.032 | 264  | 9435     | 0.400 | ng    | # 0.00   |
|                               |        |      |          |       |       |          |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 4.932  | 112  | 3134     | 0.308 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.477  | 99   | 3400     | 0.278 | ng    | -0.01    |
| 8) Nitrobenzene-d5            | 8.397  | 82   | 2771m    | 0.465 | ng    | -0.01    |
| 11) 2-Methylnaphthalene-d10   | 11.611 | 152  | 7007     | 0.459 | ng    | -0.01    |
| 14) 2,4,6-Tribromophenol      | 15.453 | 330  | 647      | 0.165 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.528 | 172  | 8330     | 0.399 | ng    | -0.02    |
| 27) Fluoranthene-d10          | 18.752 | 212  | 11348    | 0.367 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.384 | 244  | 8056     | 0.431 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| Target Compounds              |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 2.982  | 88   | 1441     | 0.371 | ng    | # 72     |
| 3) n-Nitrosodimethylamine     | 3.271  | 42   | 1276     | 0.394 | ng    | # 88     |
| 6) bis(2-Chloroethyl)ether    | 6.715  | 93   | 3429     | 0.333 | ng    | 99       |
| 9) Naphthalene                | 10.052 | 128  | 9192     | 0.357 | ng    | 100      |
| 10) Hexachlorobutadiene       | 10.340 | 225  | 2323     | 0.391 | ng    | # 99     |
| 12) 2-Methylnaphthalene       | 11.687 | 142  | 5969     | 0.324 | ng    | 98       |
| 16) Acenaphthylene            | 13.636 | 152  | 8595     | 0.370 | ng    | 99       |
| 17) Acenaphthene              | 13.978 | 154  | 5618     | 0.365 | ng    | 99       |
| 18) Fluorene                  | 14.994 | 166  | 7068     | 0.320 | ng    | 99       |
| 20) 4,6-Dinitro-2-methylph... | 15.122 | 198  | 260      | 0.242 | ng    | # 30     |
| 21) 4-Bromophenyl-phenylether | 15.904 | 248  | 2229     | 0.349 | ng    | # 91     |
| 22) Hexachlorobenzene         | 16.003 | 284  | 3165     | 0.422 | ng    | 98       |
| 23) Atrazine                  | 16.202 | 200  | 1619     | 0.356 | ng    | 96       |
| 24) Pentachlorophenol         | 16.363 | 266  | 1112     | 0.341 | ng    | # 84     |
| 25) Phenanthrene              | 16.736 | 178  | 10790    | 0.360 | ng    | 99       |
| 26) Anthracene                | 16.835 | 178  | 9628     | 0.355 | ng    | 99       |
| 28) Fluoranthene              | 18.785 | 202  | 12957    | 0.320 | ng    | 100      |
| 30) Pyrene                    | 19.152 | 202  | 13632    | 0.390 | ng    | 99       |
| 32) Benzo(a)anthracene        | 20.929 | 228  | 10627    | 0.321 | ng    | 99       |
| 33) Chrysene                  | 20.983 | 228  | 14185    | 0.415 | ng    | 100      |
| 34) Bis(2-ethylhexyl)phtha... | 20.902 | 149  | 4640     | 0.355 | ng    | 100      |
| 36) Indeno(1,2,3-cd)pyrene    | 25.053 | 276  | 13497    | 0.366 | ng    | 98       |
| 37) Benzo(b)fluoranthene      | 22.421 | 252  | 22672    | 0.657 | ng    | 96       |
| 38) Benzo(k)fluoranthene      | 22.462 | 252  | 14330    | 0.422 | ng    | 97       |
| 39) Benzo(a)pyrene            | 22.942 | 252  | 11221    | 0.395 | ng    | # 92     |
| 40) Dibenzo(a,h)anthracene    | 25.076 | 278  | 9782     | 0.336 | ng    | 93       |
| 41) Benzo(g,h,i)perylene      | 25.664 | 276  | 11572    | 0.380 | ng    | 99       |
| -----                         |        |      |          |       |       |          |

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

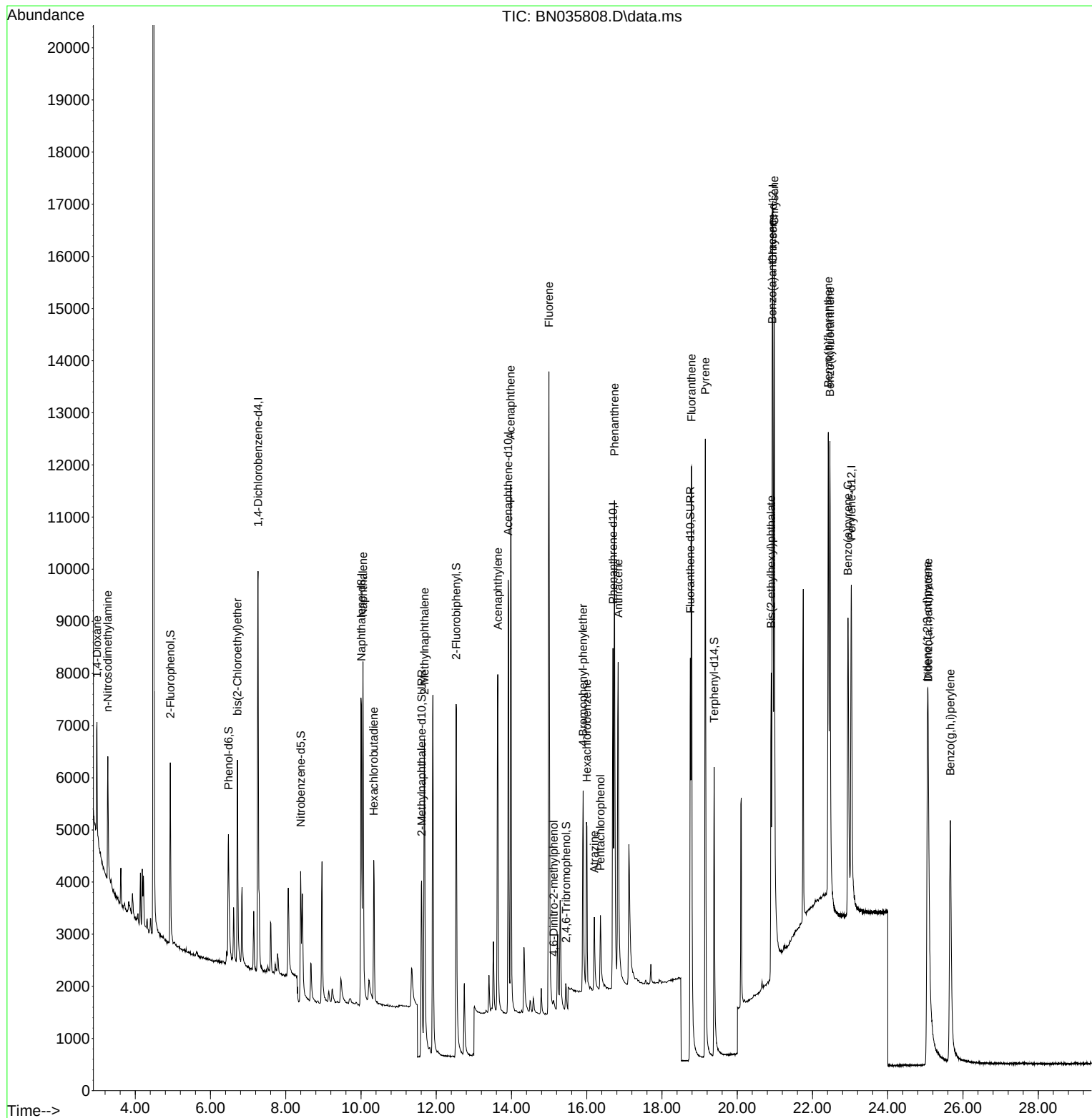
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 Acq On : 24 Dec 2024 06:34  
 Operator : RC/JU  
 Sample : PB165667BS  
 Misc :  
 ALS Vial : 92 Sample Multiplier: 1

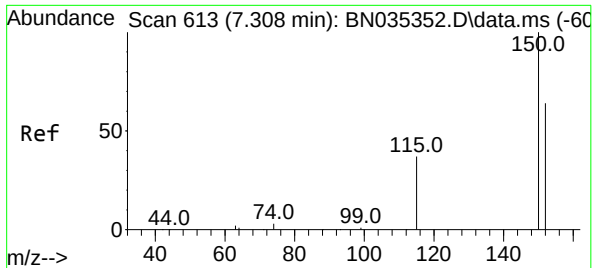
Instrument :  
 BNA\_N  
 ClientSampleId :  
 PB165667BS

### Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/24/2024  
 Supervised By :mohammad ahmed 12/26/2024

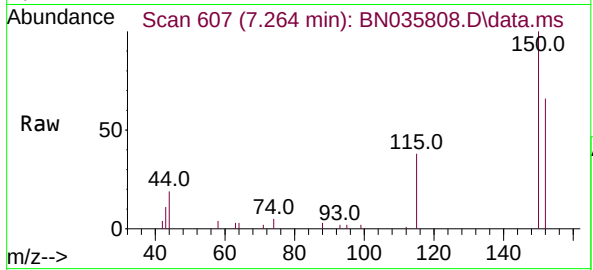
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 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Dec 19 23:06:19 2024  
 Response via : Initial Calibration





#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.264 min Scan# 607  
Delta R.T. -0.008 min  
Lab File: BN035808.D  
Acq: 24 Dec 2024 06:34

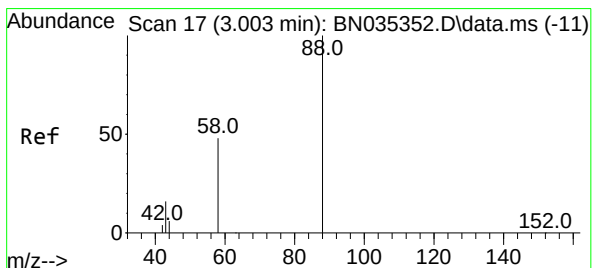
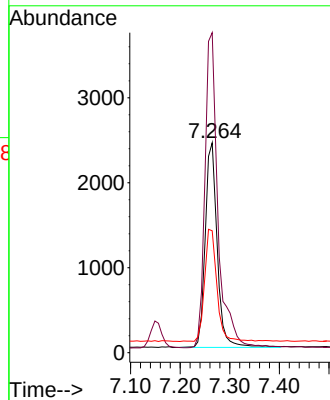
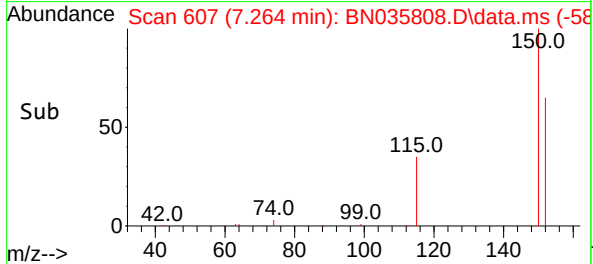
Instrument :  
BNA\_N  
ClientSampleId :  
PB165667BS



Tgt Ion: 152 Resp: 406  
Ion Ratio Lower Upper  
152 100  
150 152.4 124.0 186.0  
115 58.0 49.6 74.4

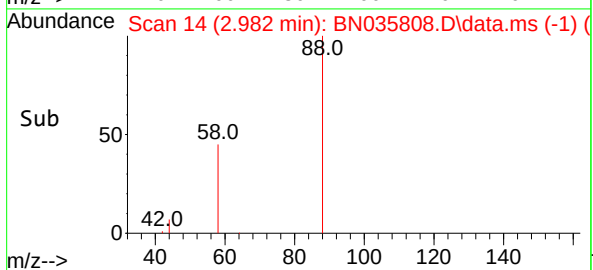
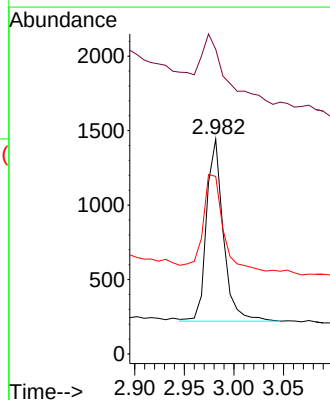
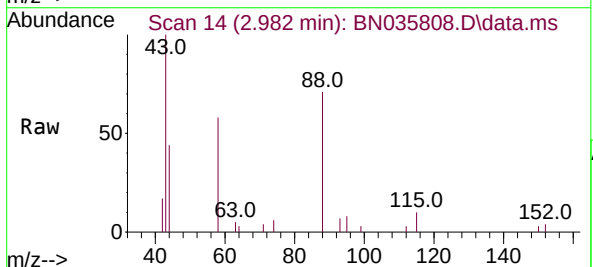
Manual Integrations  
**APPROVED**

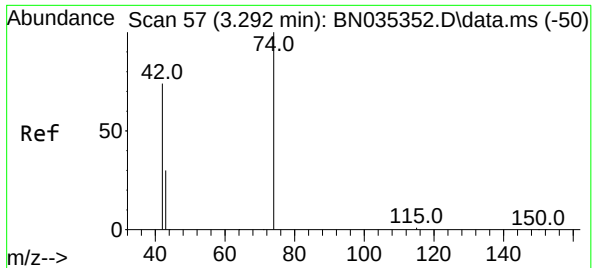
Reviewed By :Yogesh Patel 12/24/2024  
Supervised By :mohammad ahmed 12/26/2024



#2  
1,4-Dioxane  
Concen: 0.371 ng  
RT: 2.982 min Scan# 14  
Delta R.T. -0.000 min  
Lab File: BN035808.D  
Acq: 24 Dec 2024 06:34

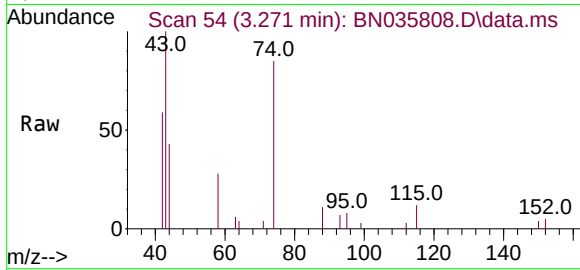
Tgt Ion: 88 Resp: 1441  
Ion Ratio Lower Upper  
88 100  
43 55.2 17.2 25.8#  
58 64.2 44.5 66.7





#3  
n-Nitrosodimethylamine  
Concen: 0.394 ng  
RT: 3.271 min Scan# 54  
Delta R.T. -0.007 min  
Lab File: BN035808.D  
Acq: 24 Dec 2024 06:34

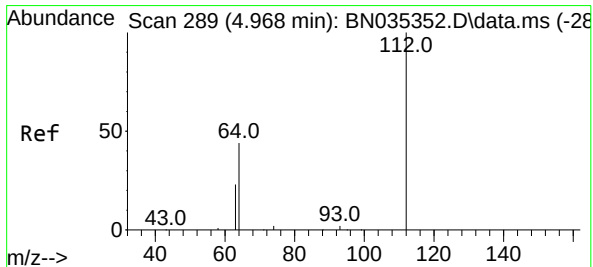
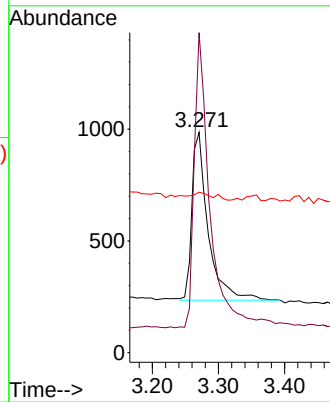
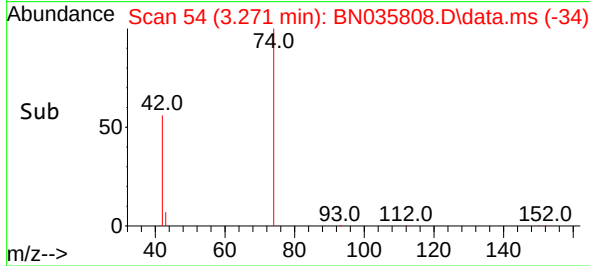
Instrument :  
BNA\_N  
ClientSampleId :  
PB165667BS



Tgt Ion: 42 Resp: 1270  
Ion Ratio Lower Upper  
42 100  
74 171.2 124.9 187.3  
44 6.1 2.2 3.4

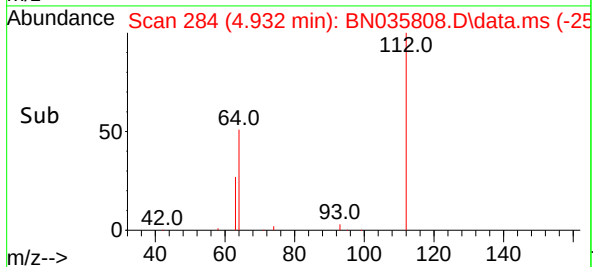
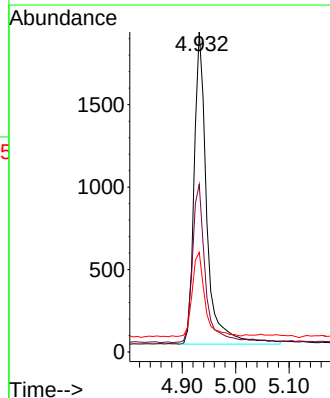
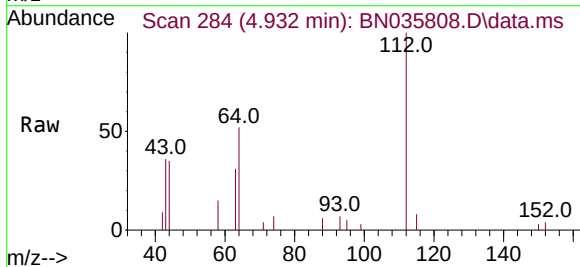
Manual Integrations  
APPROVED

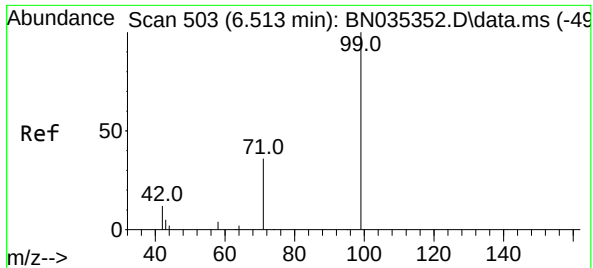
Reviewed By :Yogesh Patel 12/24/2024  
Supervised By :mohammad ahmed 12/26/2024



#4  
2-Fluorophenol  
Concen: 0.308 ng  
RT: 4.932 min Scan# 284  
Delta R.T. -0.007 min  
Lab File: BN035808.D  
Acq: 24 Dec 2024 06:34

Tgt Ion:112 Resp: 3134  
Ion Ratio Lower Upper  
112 100  
64 51.3 39.8 59.8  
63 27.3 21.0 31.6





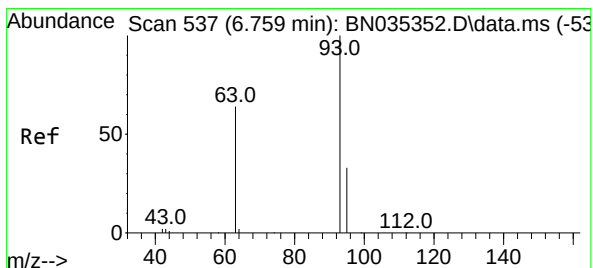
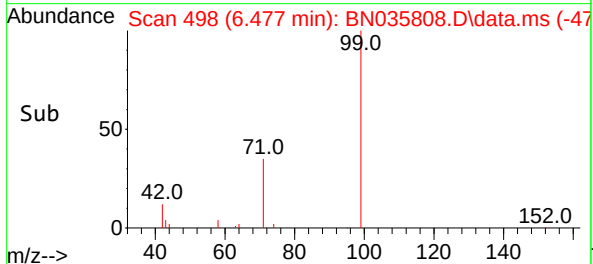
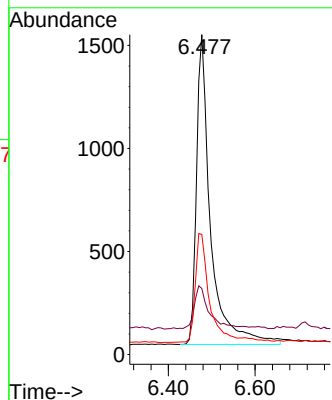
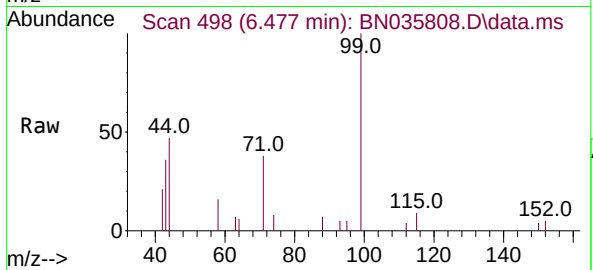
#5  
Phenol-d6  
Concen: 0.278 ng  
RT: 6.477 min Scan# 498  
Delta R.T. -0.015 min  
Lab File: BN035808.D  
Acq: 24 Dec 2024 06:34

Instrument :  
BNA\_N  
ClientSampleId :  
PB165667BS

Tgt Ion: 99 Resp: 3400  
Ion Ratio Lower Upper  
99 100  
42 14.5 11.4 17.2  
71 34.8 29.3 43.9

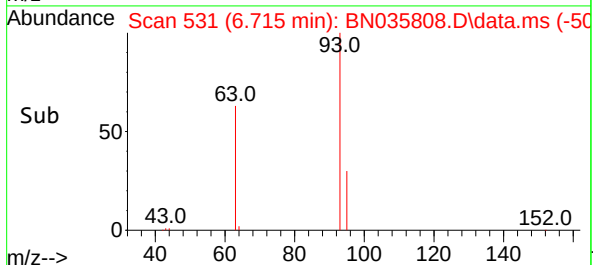
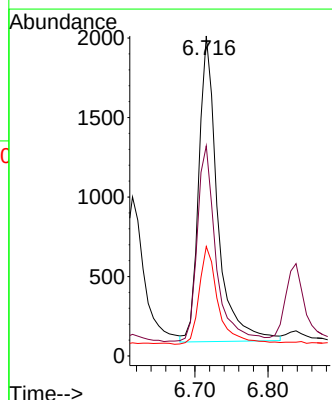
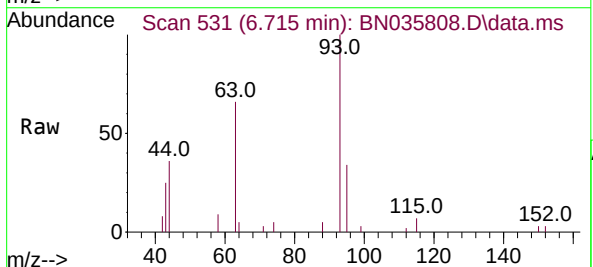
Manual Integrations  
**APPROVED**

Reviewed By :Yogesh Patel 12/24/2024  
Supervised By :mohammad ahmed 12/26/2024

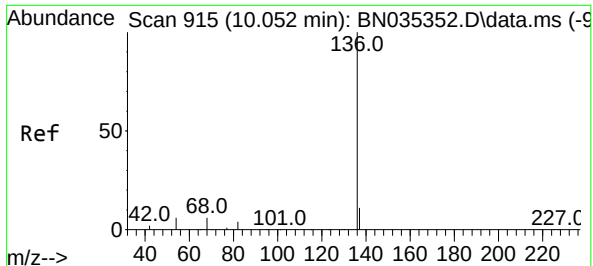


#6  
bis(2-Chloroethyl)ether  
Concen: 0.333 ng  
RT: 6.715 min Scan# 531  
Delta R.T. -0.015 min  
Lab File: BN035808.D  
Acq: 24 Dec 2024 06:34

Tgt Ion: 93 Resp: 3429  
Ion Ratio Lower Upper  
93 100  
63 63.3 50.4 75.6  
95 32.7 25.7 38.5

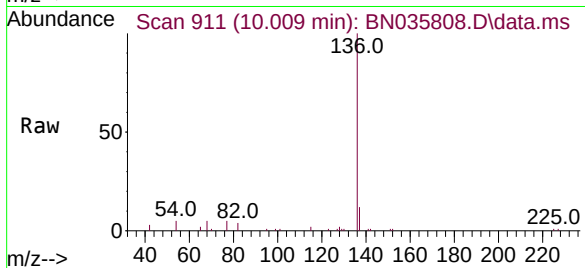






#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.009 min Scan# 915  
Delta R.T. -0.011 min  
Lab File: BN035808.D  
Acq: 24 Dec 2024 06:34

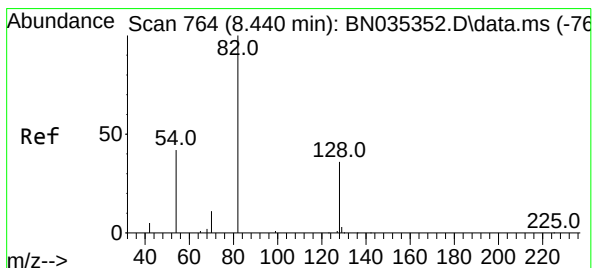
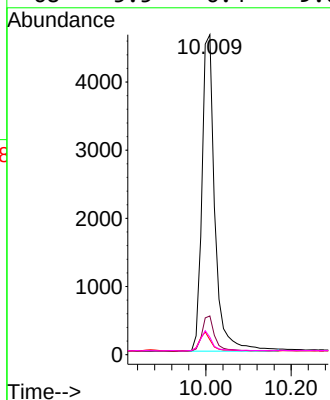
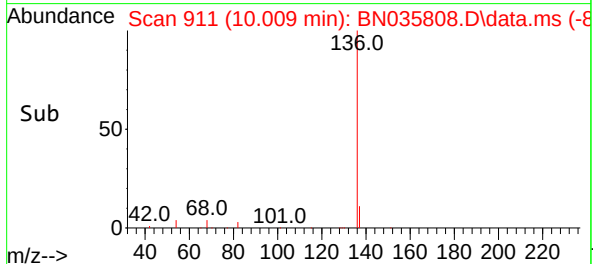
Instrument :  
BNA\_N  
ClientSampleId :  
PB165667BS



Tgt Ion: 136 Resp: 9754  
Ion Ratio Lower Upper  
136 100  
137 12.1 10.2 15.2  
54 4.7 6.1 9.1  
68 5.5 6.4 9.6#

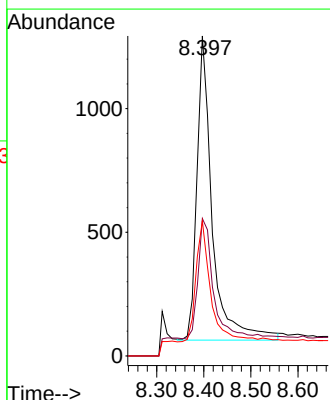
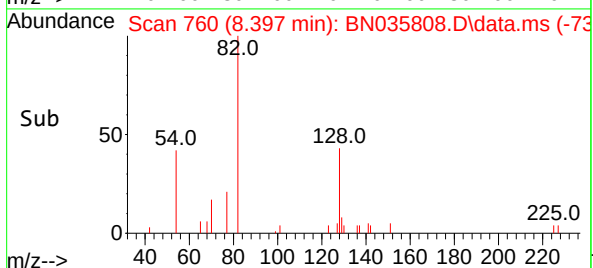
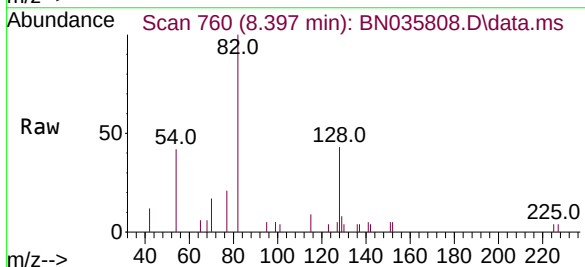
Manual Integrations  
APPROVED

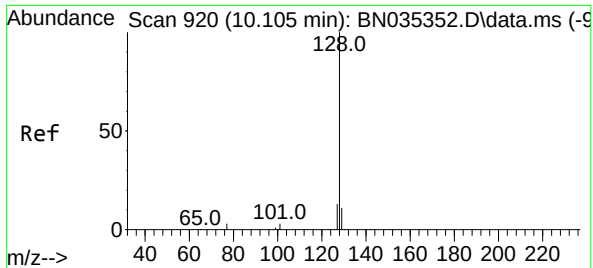
Reviewed By :Yogesh Patel 12/24/2024  
Supervised By :mohammad ahmed 12/26/2024



#8  
Nitrobenzene-d5  
Concen: 0.465 ng m  
RT: 8.397 min Scan# 760  
Delta R.T. -0.011 min  
Lab File: BN035808.D  
Acq: 24 Dec 2024 06:34

Tgt Ion: 82 Resp: 2771  
Ion Ratio Lower Upper  
82 100  
128 43.0 33.4 50.0  
54 42.2 36.7 55.1





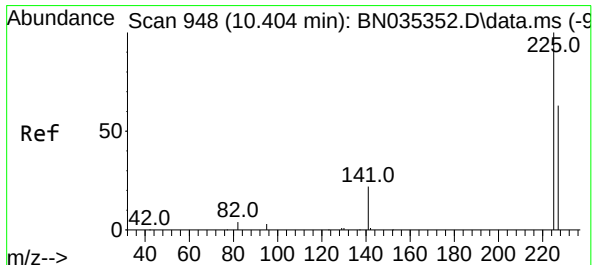
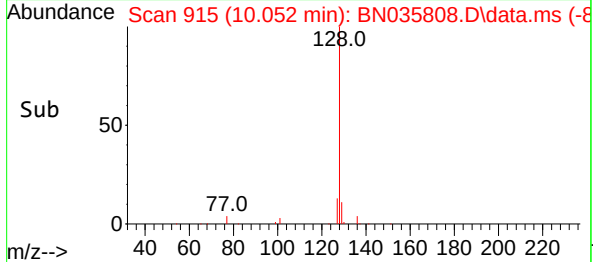
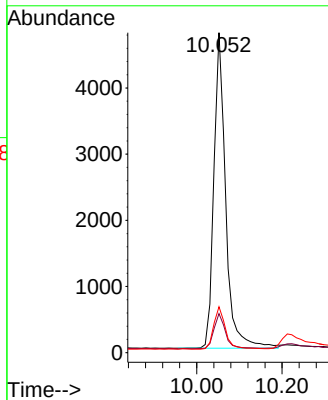
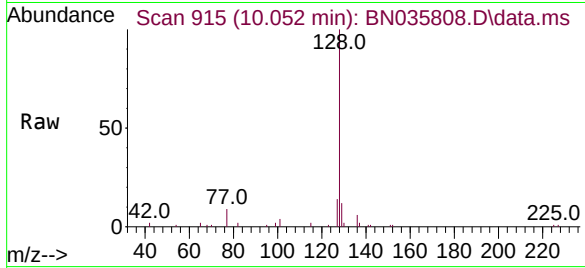
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Naphthalene  
Concen: 0.357 ng  
RT: 10.052 min Scan# 915  
Delta R.T. -0.011 min  
Lab File: BN035808.D  
Acq: 24 Dec 2024 06:34

Instrument :  
BNA\_N  
ClientSampleId :  
PB165667BS

Tgt Ion:128 Resp: 919  
Ion Ratio Lower Upper  
128 100  
129 12.2 9.8 14.6  
127 14.4 11.4 17.2

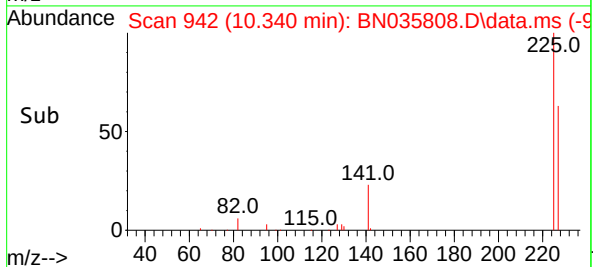
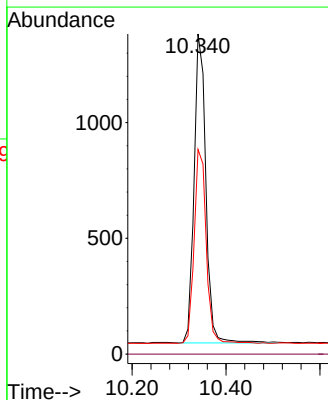
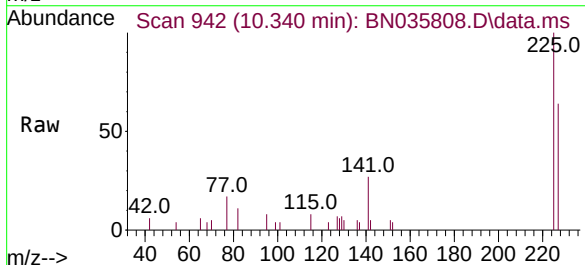
Manual Integrations  
APPROVED

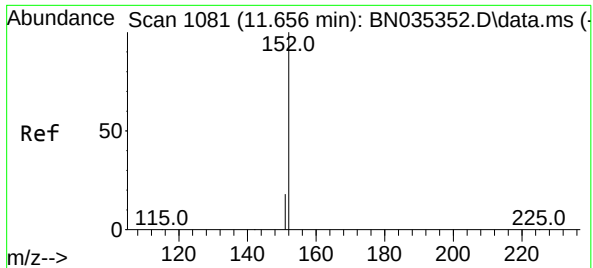
Reviewed By :Yogesh Patel 12/24/2024  
Supervised By :mohammad ahmed 12/26/2024



#10  
Hexachlorobutadiene  
Concen: 0.391 ng  
RT: 10.340 min Scan# 942  
Delta R.T. -0.021 min  
Lab File: BN035808.D  
Acq: 24 Dec 2024 06:34

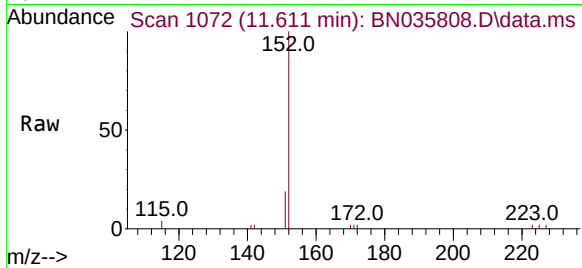
Tgt Ion:225 Resp: 2323  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 64.7 51.3 76.9





#11  
2-Methylnaphthalene-d10  
Concen: 0.459 ng  
RT: 11.611 min Scan# 1072  
Delta R.T. -0.010 min  
Lab File: BN035808.D  
Acq: 24 Dec 2024 06:34

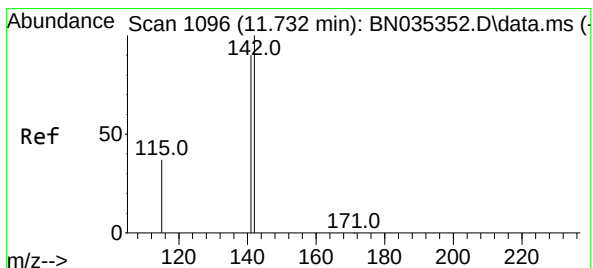
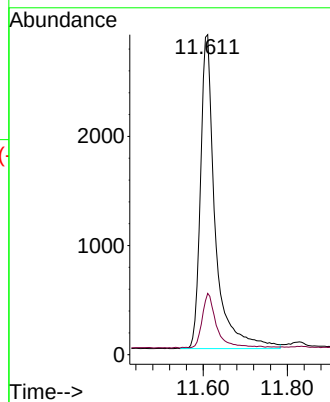
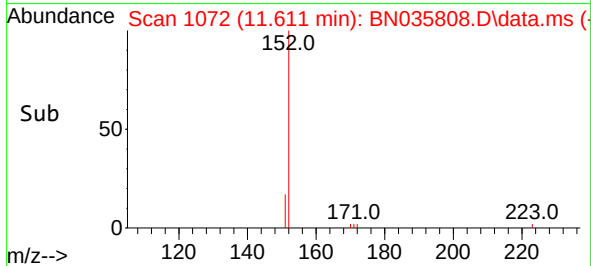
Instrument :  
BNA\_N  
ClientSampleId :  
PB165667BS



Tgt Ion:152 Resp: 700  
Ion Ratio Lower Upper  
152 100  
151 16.5 16.6 25.0

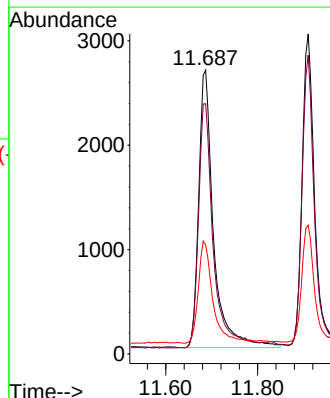
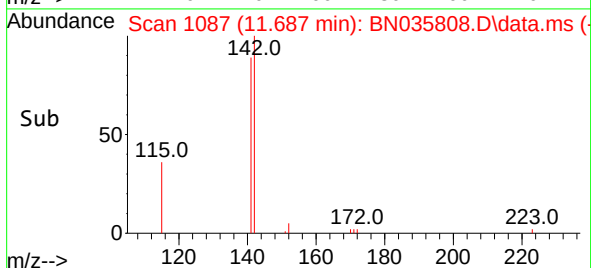
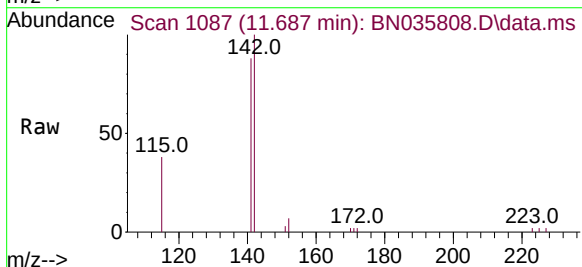
Manual Integrations  
APPROVED

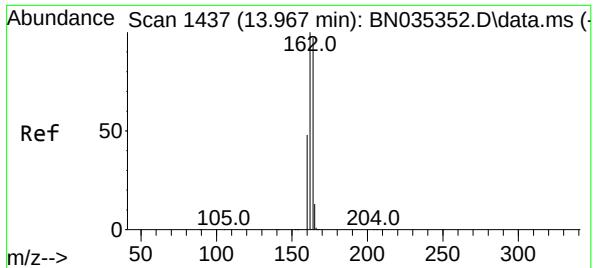
Reviewed By :Yogesh Patel 12/24/2024  
Supervised By :mohammad ahmed 12/26/2024



#12  
2-Methylnaphthalene  
Concen: 0.324 ng  
RT: 11.687 min Scan# 1087  
Delta R.T. -0.010 min  
Lab File: BN035808.D  
Acq: 24 Dec 2024 06:34

Tgt Ion:142 Resp: 5969  
Ion Ratio Lower Upper  
142 100  
141 88.2 72.2 108.4  
115 38.4 31.4 47.0





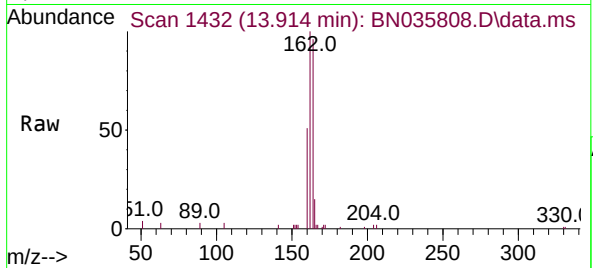
#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.914 min Scan# 1437  
Delta R.T. -0.021 min  
Lab File: BN035808.D  
Acq: 24 Dec 2024 06:34

Instrument :

BNA\_N

ClientSampleId :

PB165667BS

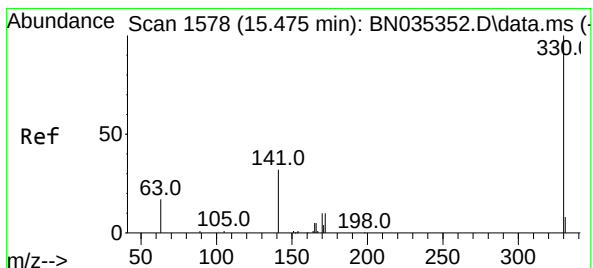
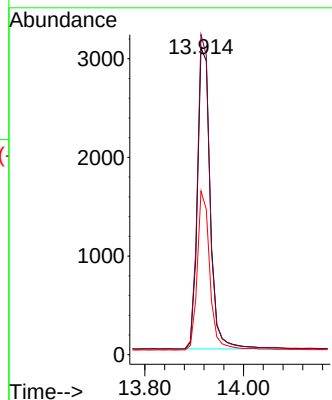
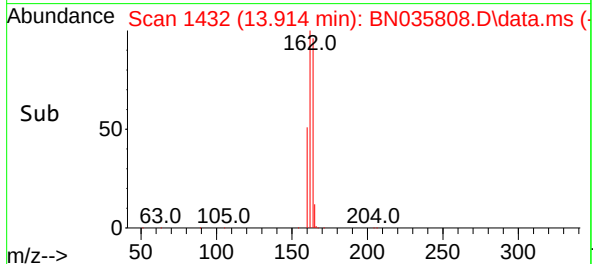


Tgt Ion:164 Resp: 552  
Ion Ratio Lower Upper  
164 100  
162 104.3 82.2 123.2  
160 53.3 40.1 60.1

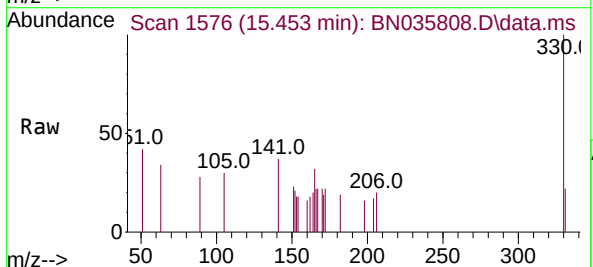
Manual Integrations

APPROVED

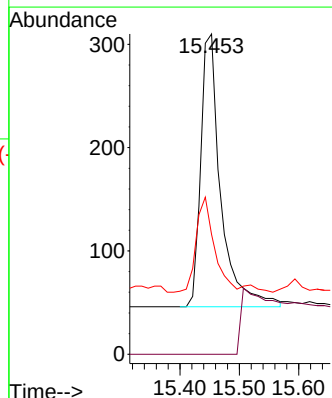
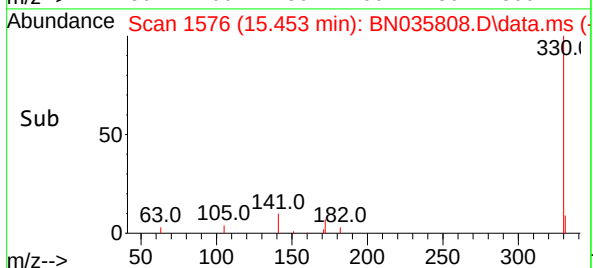
Reviewed By :Yogesh Patel 12/24/2024  
Supervised By :mohammad ahmed 12/26/2024

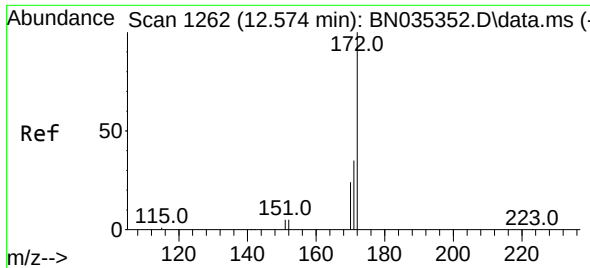


#14  
2,4,6-Tribromophenol  
Concen: 0.165 ng  
RT: 15.453 min Scan# 1576  
Delta R.T. -0.000 min  
Lab File: BN035808.D  
Acq: 24 Dec 2024 06:34



Tgt Ion:330 Resp: 647  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 30.3 26.6 40.0





#15  
2-Fluorobiphenyl  
Concen: 0.399 ng  
RT: 12.528 min Scan# 11  
Delta R.T. -0.015 min  
Lab File: BN035808.D  
Acq: 24 Dec 2024 06:34

Instrument :

BNA\_N

ClientSampleId :

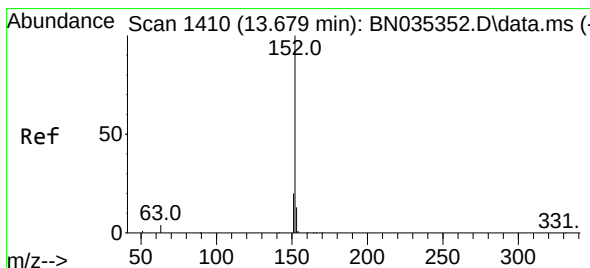
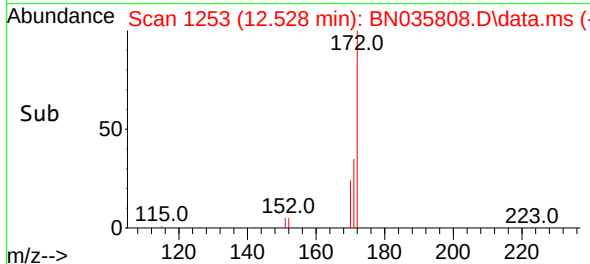
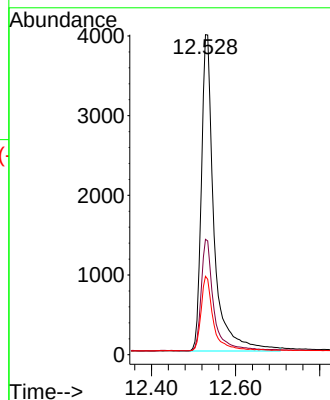
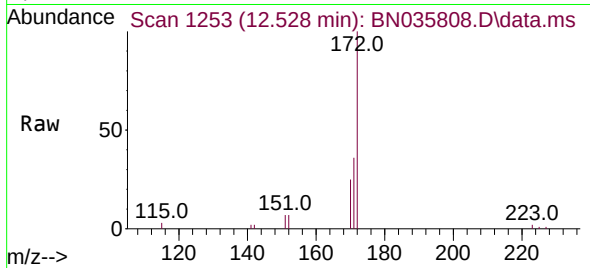
PB165667BS

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.1  | 29.0  | 43.4  |
| 170     | 24.5  | 19.8  | 29.8  |

Manual Integrations

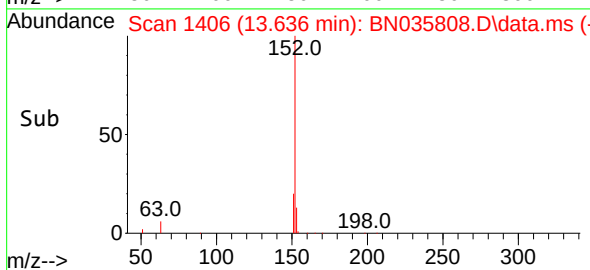
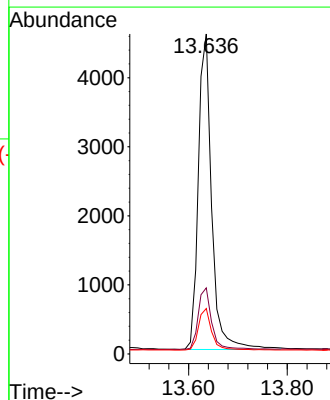
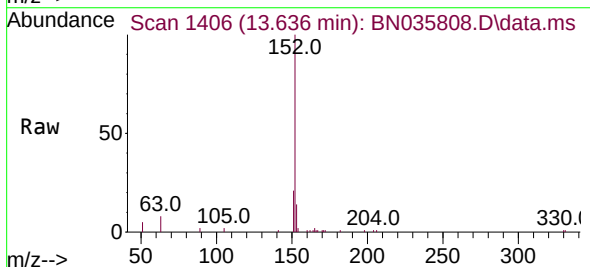
APPROVED

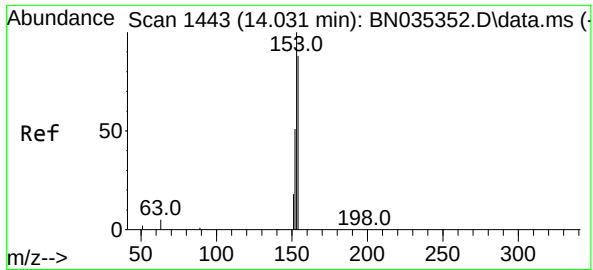
Reviewed By :Yogesh Patel 12/24/2024  
Supervised By :mohammad ahmed 12/26/2024



#16  
Acenaphthylene  
Concen: 0.370 ng  
RT: 13.636 min Scan# 1406  
Delta R.T. -0.011 min  
Lab File: BN035808.D  
Acq: 24 Dec 2024 06:34

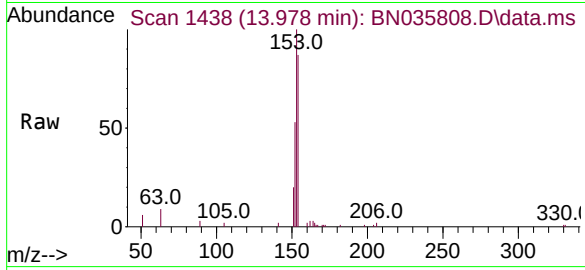
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 19.8  | 16.2  | 24.2  |
| 153     | 13.1  | 10.4  | 15.6  |





#17  
Acenaphthene  
Concen: 0.365 ng  
RT: 13.978 min Scan# 1443  
Delta R.T. -0.021 min  
Lab File: BN035808.D  
Acq: 24 Dec 2024 06:34

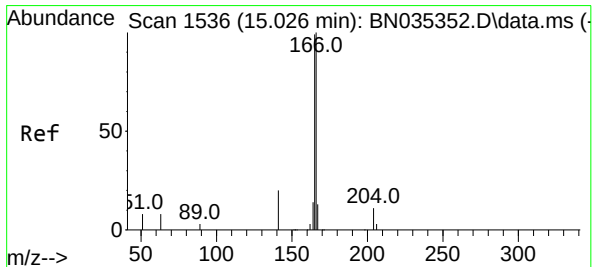
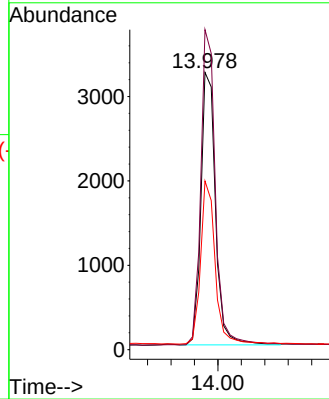
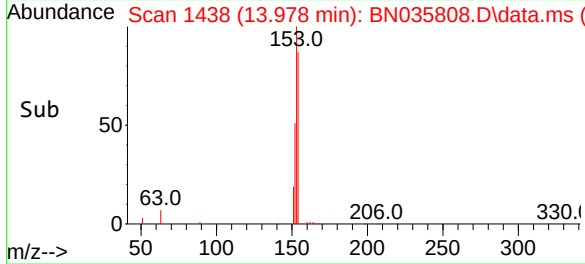
Instrument :  
BNA\_N  
ClientSampleId :  
PB165667BS



Tgt Ion:154 Resp: 5618  
Ion Ratio Lower Upper  
154 100  
153 115.4 92.6 139.0  
152 59.8 49.0 73.6

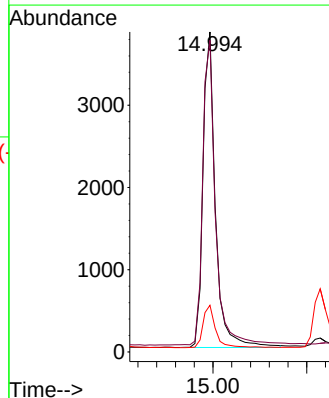
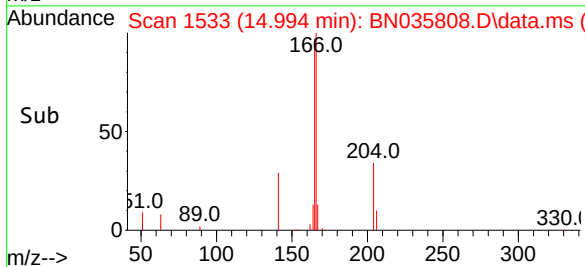
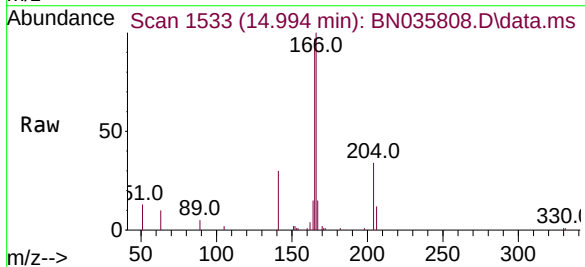
Manual Integrations  
**APPROVED**

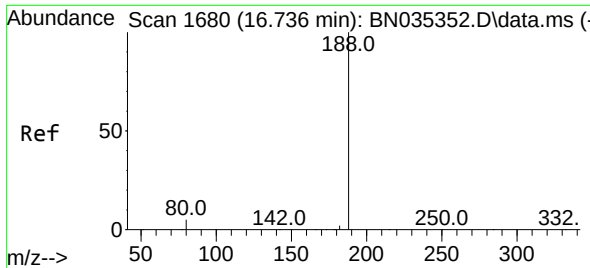
Reviewed By :Yogesh Patel 12/24/2024  
Supervised By :mohammad ahmed 12/26/2024



#18  
Fluorene  
Concen: 0.320 ng  
RT: 14.994 min Scan# 1533  
Delta R.T. -0.011 min  
Lab File: BN035808.D  
Acq: 24 Dec 2024 06:34

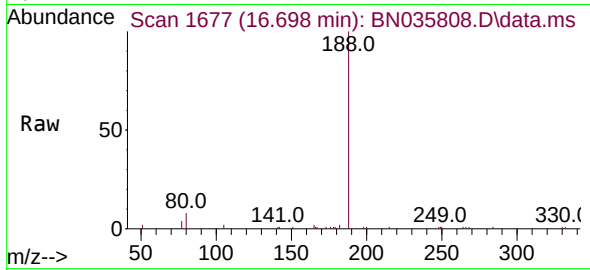
Tgt Ion:166 Resp: 7068  
Ion Ratio Lower Upper  
166 100  
165 98.7 79.7 119.5  
167 13.7 10.8 16.2





#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 16.698 min Scan# 1677  
Delta R.T. -0.000 min  
Lab File: BN035808.D  
Acq: 24 Dec 2024 06:34

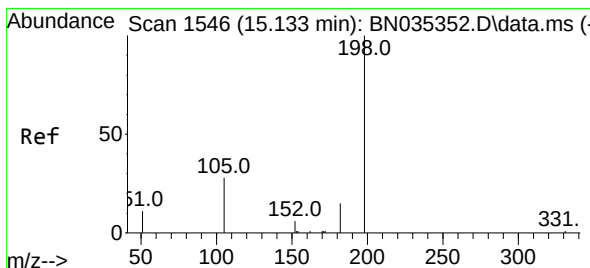
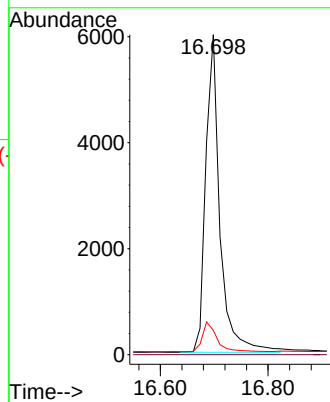
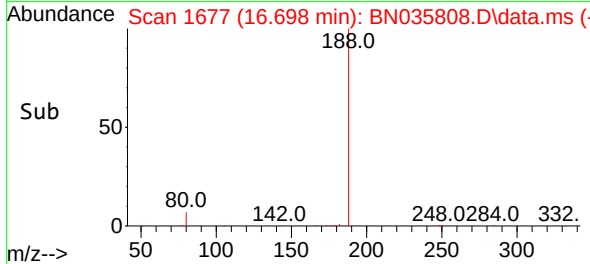
Instrument :  
BNA\_N  
ClientSampleId :  
PB165667BS



Tgt Ion:188 Resp: 10920  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 7.6 4.6 6.8

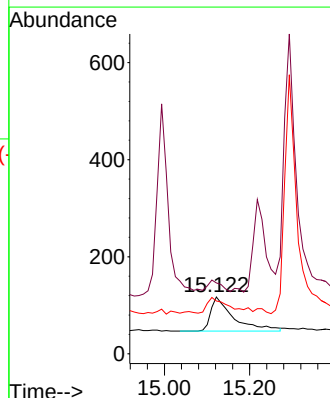
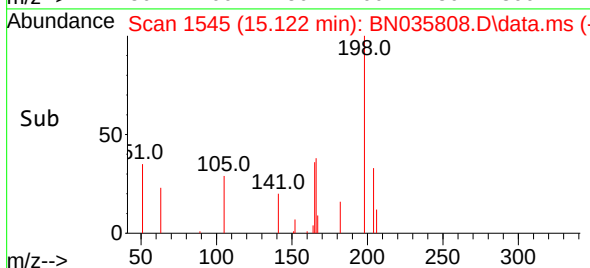
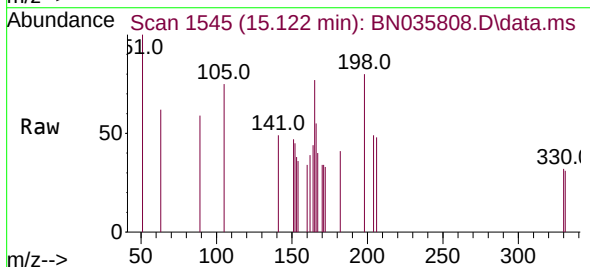
Manual Integrations  
**APPROVED**

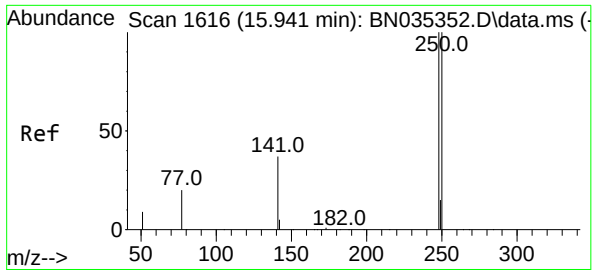
Reviewed By :Yogesh Patel 12/24/2024  
Supervised By :mohammad ahmed 12/26/2024



#20  
4,6-Dinitro-2-methylphenol  
Concen: 0.242 ng  
RT: 15.122 min Scan# 1545  
Delta R.T. -0.000 min  
Lab File: BN035808.D  
Acq: 24 Dec 2024 06:34

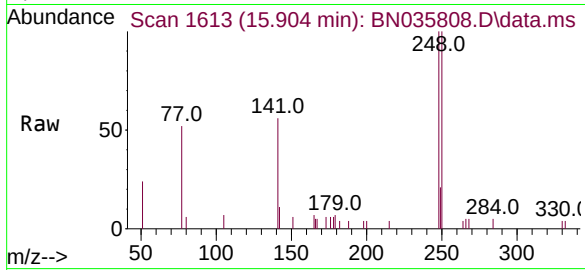
Tgt Ion:198 Resp: 260  
Ion Ratio Lower Upper  
198 100  
51 124.8 46.5 69.7#  
105 93.2 45.3 67.9#





#21  
4-Bromophenyl-phenylether  
Concen: 0.349 ng  
RT: 15.904 min Scan# 1613  
Delta R.T. -0.013 min  
Lab File: BN035808.D  
Acq: 24 Dec 2024 06:34

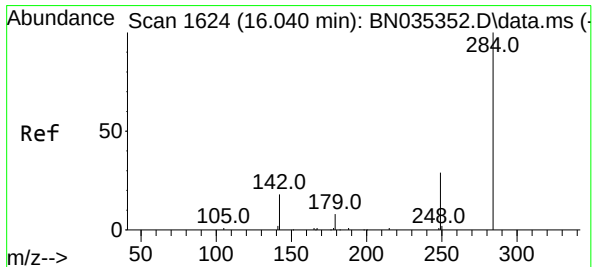
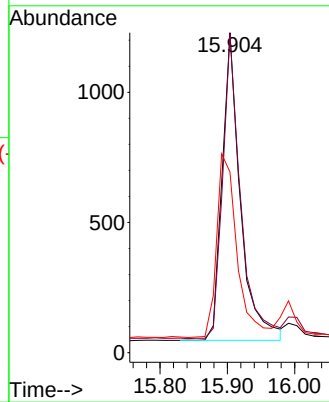
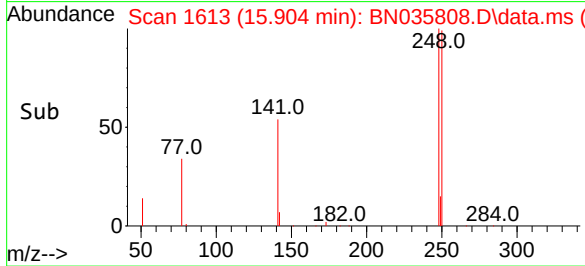
Instrument :  
BNA\_N  
ClientSampleId :  
PB165667BS



Tgt Ion:248 Resp: 2229  
Ion Ratio Lower Upper  
248 100  
250 99.8 80.6 120.8  
141 56.5 31.5 47.3

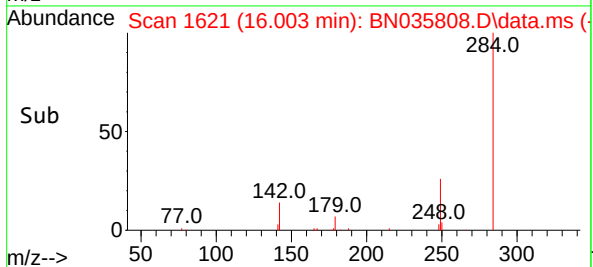
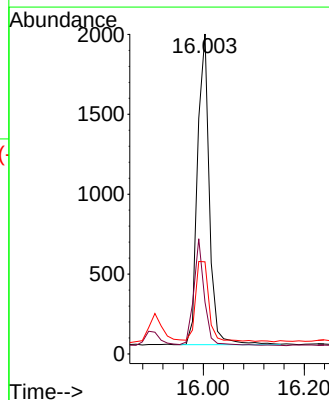
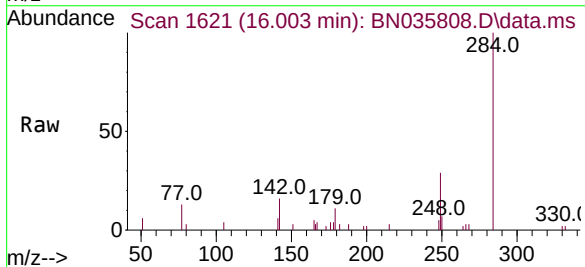
Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 12/24/2024  
Supervised By :mohammad ahmed 12/26/2024

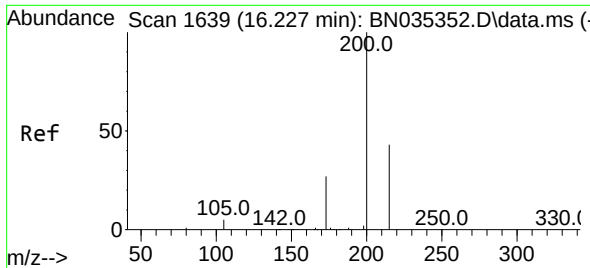


#22  
Hexachlorobenzene  
Concen: 0.422 ng  
RT: 16.003 min Scan# 1621  
Delta R.T. -0.013 min  
Lab File: BN035808.D  
Acq: 24 Dec 2024 06:34

Tgt Ion:284 Resp: 3165  
Ion Ratio Lower Upper  
284 100  
142 31.6 26.7 40.1  
249 30.2 24.6 36.8







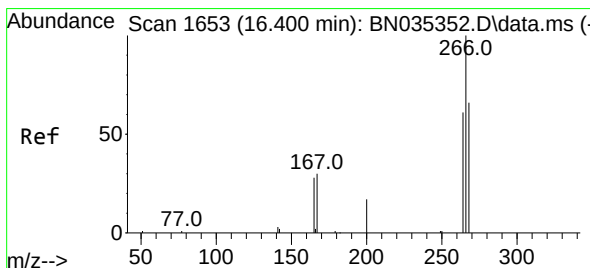
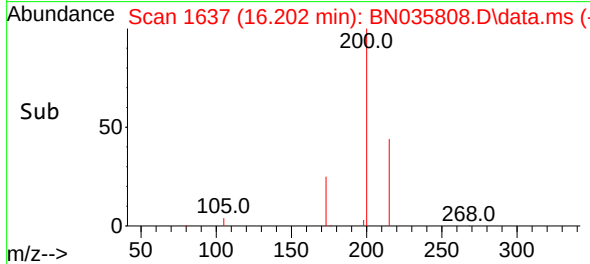
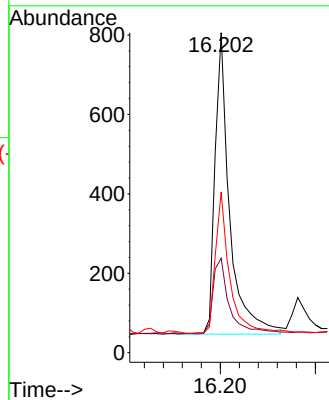
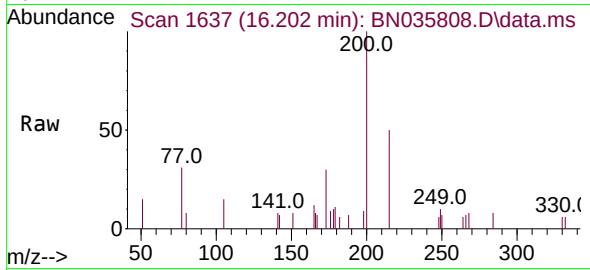
#23  
Atrazine  
Concen: 0.356 ng  
RT: 16.202 min Scan# 1619  
Delta R.T. -0.000 min  
Lab File: BN035808.D  
Acq: 24 Dec 2024 06:34

Instrument :  
BNA\_N  
ClientSampleId :  
PB165667BS

Tgt Ion:200 Resp: 1619  
Ion Ratio Lower Upper  
200 100  
173 29.5 24.1 36.1  
215 50.2 36.9 55.3

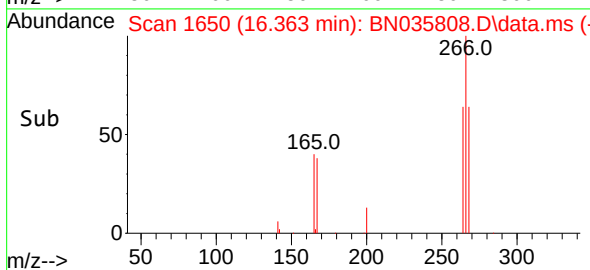
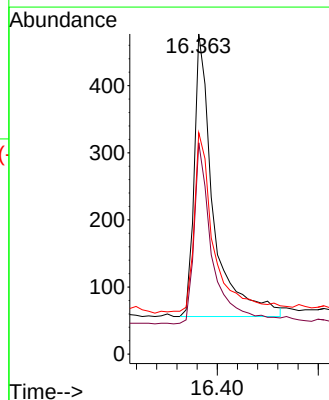
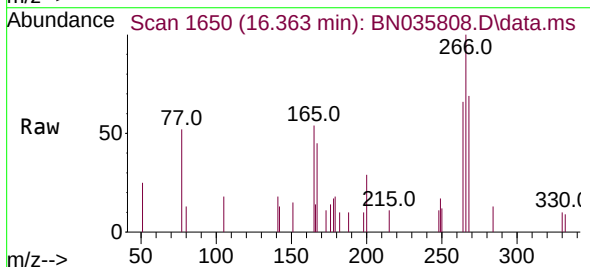
Manual Integrations  
APPROVED

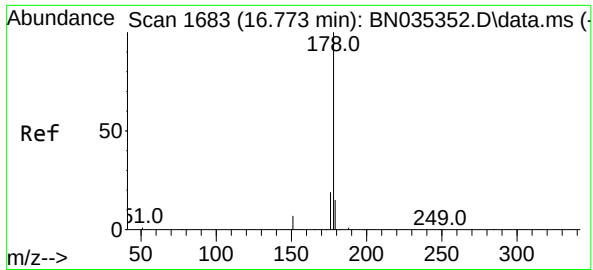
Reviewed By :Yogesh Patel 12/24/2024  
Supervised By :mohammad ahmed 12/26/2024



#24  
Pentachlorophenol  
Concen: 0.341 ng  
RT: 16.363 min Scan# 1650  
Delta R.T. -0.013 min  
Lab File: BN035808.D  
Acq: 24 Dec 2024 06:34

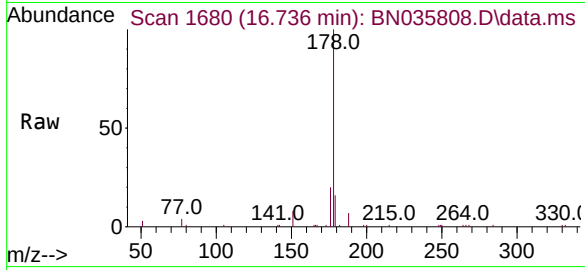
Tgt Ion:266 Resp: 1112  
Ion Ratio Lower Upper  
266 100  
264 62.4 42.3 63.5  
268 68.0 43.3 64.9#





#25  
Phenanthrene  
Concen: 0.360 ng  
RT: 16.736 min Scan# 1680  
Delta R.T. -0.013 min  
Lab File: BN035808.D  
Acq: 24 Dec 2024 06:34

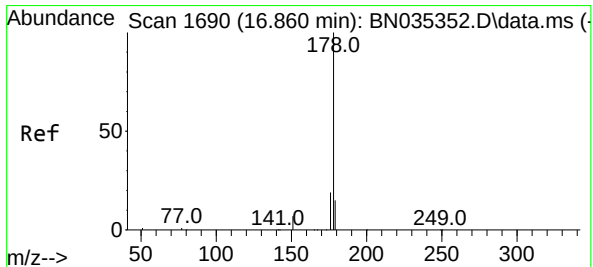
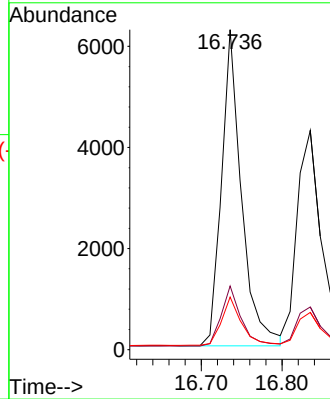
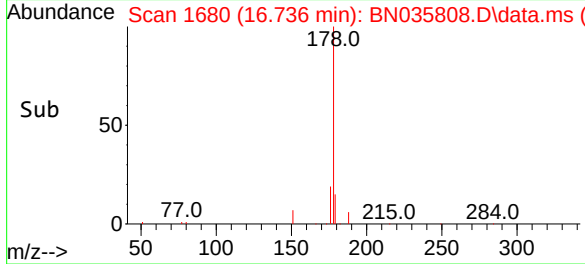
Instrument :  
BNA\_N  
ClientSampleId :  
PB165667BS



Tgt Ion:178 Resp: 10790  
Ion Ratio Lower Upper  
178 100  
176 19.0 15.4 23.2  
179 15.2 12.3 18.5

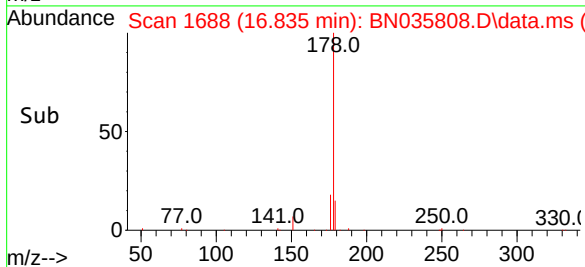
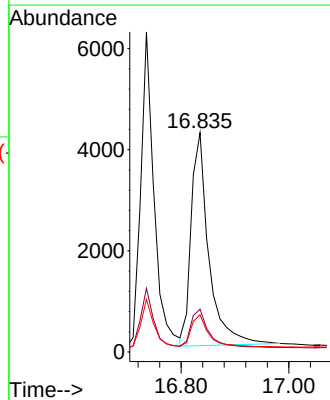
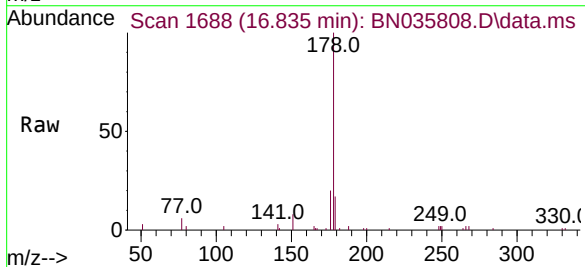
Manual Integrations  
**APPROVED**

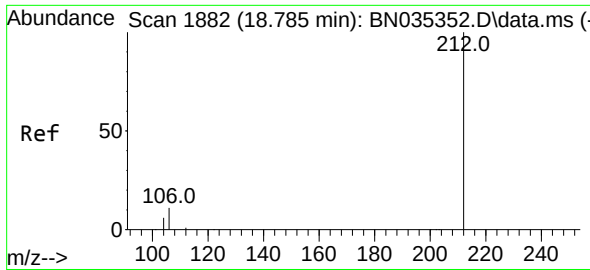
Reviewed By :Yogesh Patel 12/24/2024  
Supervised By :mohammad ahmed 12/26/2024



#26  
Anthracene  
Concen: 0.355 ng  
RT: 16.835 min Scan# 1688  
Delta R.T. -0.000 min  
Lab File: BN035808.D  
Acq: 24 Dec 2024 06:34

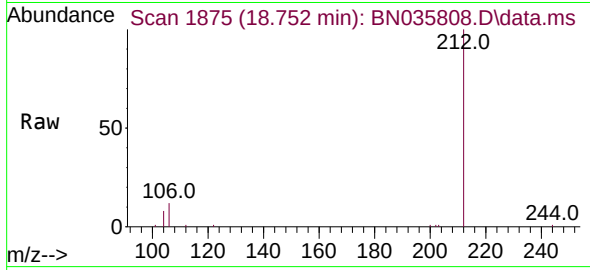
Tgt Ion:178 Resp: 9628  
Ion Ratio Lower Upper  
178 100  
176 18.7 15.0 22.6  
179 15.4 12.6 18.8





#27  
Fluoranthene-d10  
Concen: 0.367 ng  
RT: 18.752 min Scan# 1134  
Delta R.T. -0.009 min  
Lab File: BN035808.D  
Acq: 24 Dec 2024 06:34

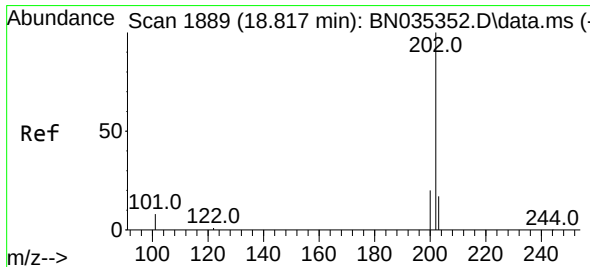
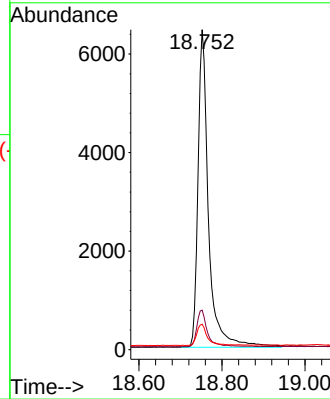
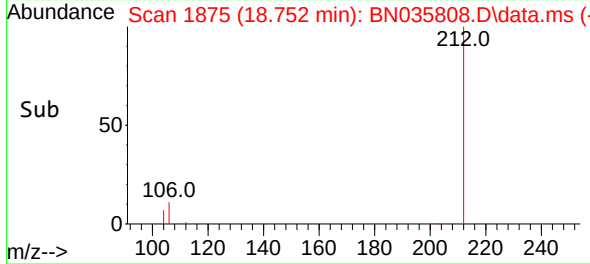
Instrument :  
BNA\_N  
ClientSampleId :  
PB165667BS



Tgt Ion:212 Resp: 1134  
Ion Ratio Lower Upper  
212 100  
106 11.5 9.2 13.8  
104 6.6 5.3 7.9

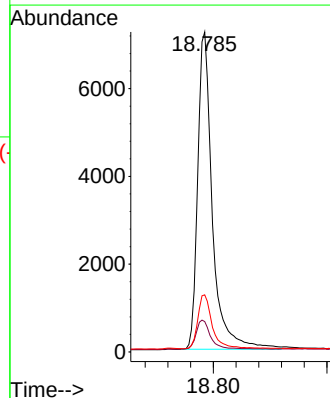
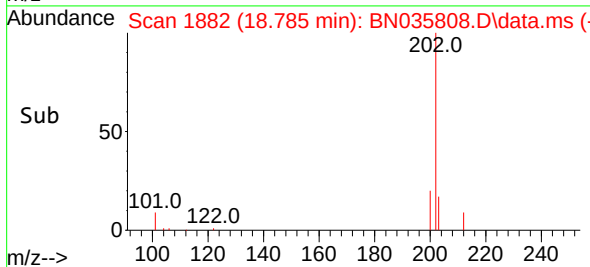
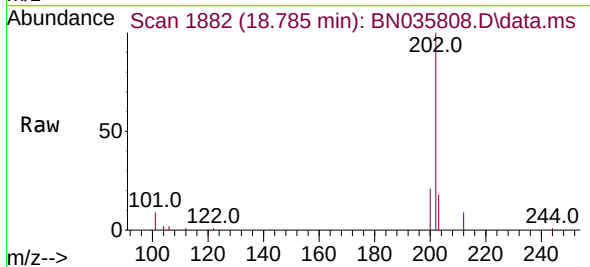
Manual Integrations  
**APPROVED**

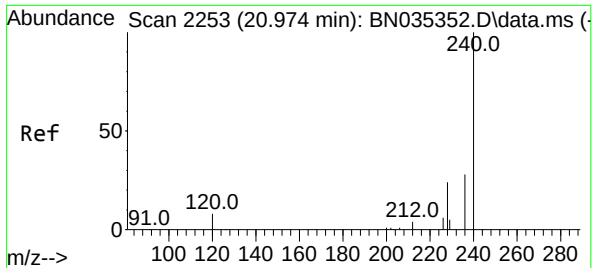
Reviewed By :Yogesh Patel 12/24/2024  
Supervised By :mohammad ahmed 12/26/2024



#28  
Fluoranthene  
Concen: 0.320 ng  
RT: 18.785 min Scan# 1882  
Delta R.T. -0.005 min  
Lab File: BN035808.D  
Acq: 24 Dec 2024 06:34

Tgt Ion:202 Resp: 12957  
Ion Ratio Lower Upper  
202 100  
101 9.3 7.4 11.0  
203 16.8 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.947 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035808.D

Acq: 24 Dec 2024 06:34

Instrument :

BNA\_N

ClientSampleId :

PB165667BS

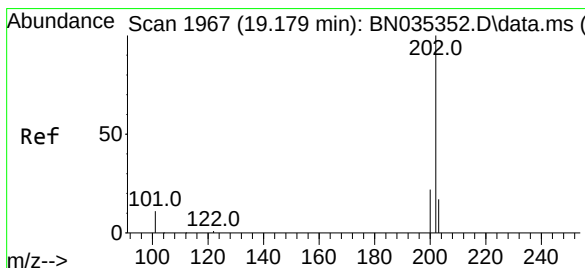
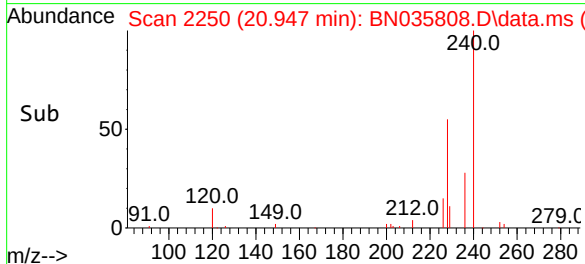
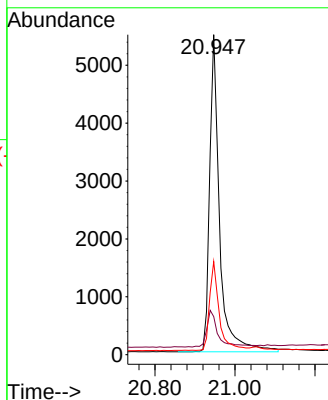
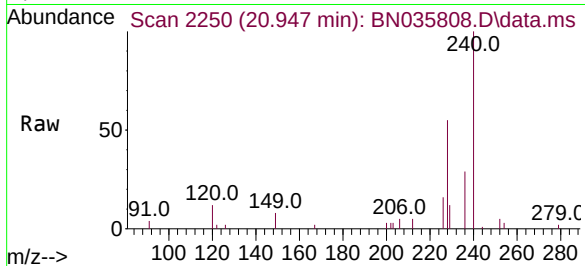
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:240 | Resp: | 946       |
| Ion Ratio   | Lower | Upper     |
| 240         | 100   |           |
| 120         | 11.9  | 7.9 11.9  |
| 236         | 29.1  | 22.9 34.3 |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/24/2024

Supervised By :mohammad ahmed 12/26/2024



#30

Pyrene

Concen: 0.390 ng

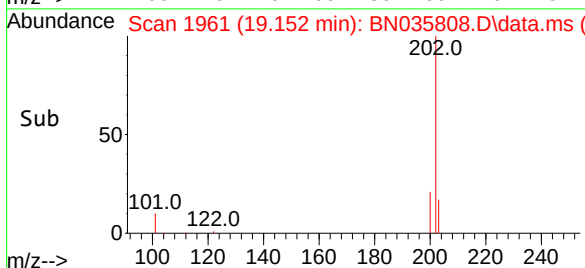
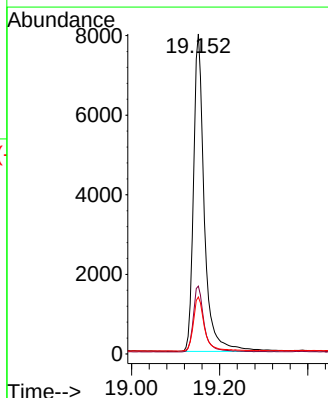
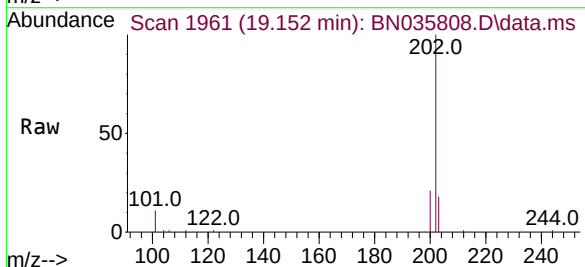
RT: 19.152 min Scan# 1961

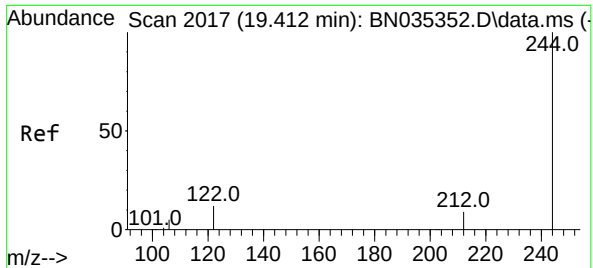
Delta R.T. -0.009 min

Lab File: BN035808.D

Acq: 24 Dec 2024 06:34

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:202 | Resp: | 13632     |
| Ion Ratio   | Lower | Upper     |
| 202         | 100   |           |
| 200         | 20.9  | 17.0 25.4 |
| 203         | 17.6  | 14.3 21.5 |





#31  
Terphenyl-d14  
Concen: 0.431 ng  
RT: 19.384 min Scan# 2011  
Delta R.T. -0.005 min  
Lab File: BN035808.D  
Acq: 24 Dec 2024 06:34

Instrument :

BNA\_N

ClientSampleId :

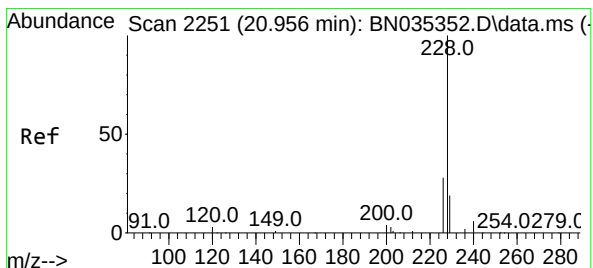
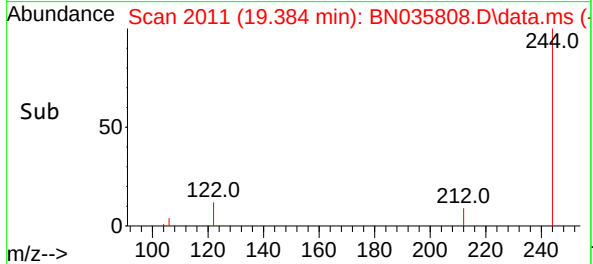
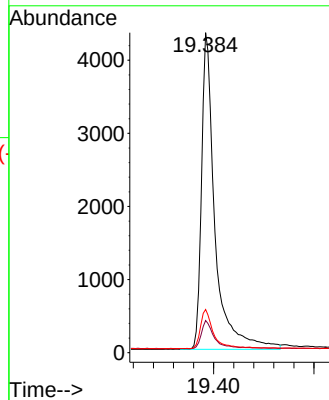
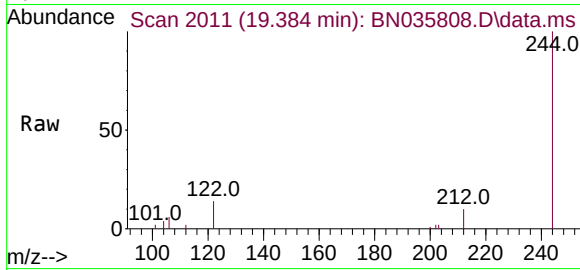
PB165667BS

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 10.1  | 8.1   | 12.1  |
| 122     | 13.5  | 10.3  | 15.5  |

Manual Integrations

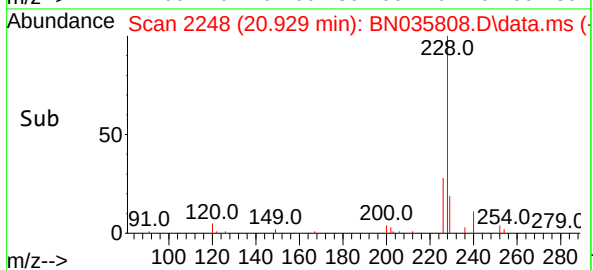
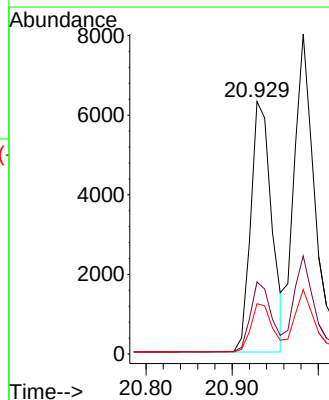
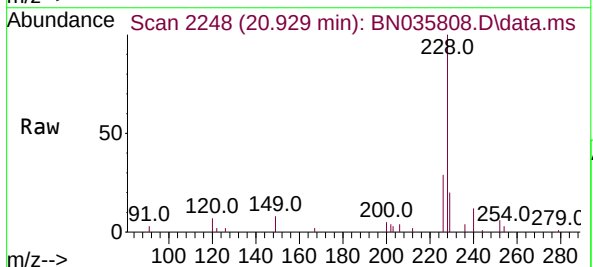
APPROVED

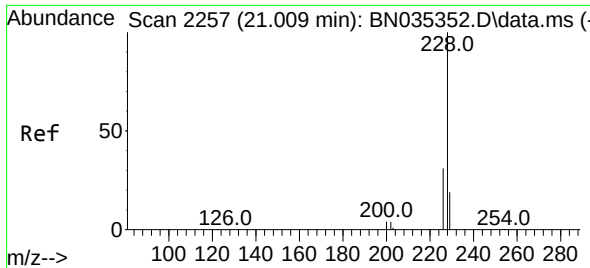
Reviewed By :Yogesh Patel 12/24/2024  
Supervised By :mohammad ahmed 12/26/2024



#32  
Benzo(a)anthracene  
Concen: 0.321 ng  
RT: 20.929 min Scan# 2248  
Delta R.T. -0.009 min  
Lab File: BN035808.D  
Acq: 24 Dec 2024 06:34

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 28.5  | 22.5  | 33.7  |
| 229     | 19.9  | 15.8  | 23.8  |





#33

Chrysene

Concen: 0.415 ng

RT: 20.983 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035808.D

Acq: 24 Dec 2024 06:34

Instrument :

BNA\_N

ClientSampleId :

PB165667BS

Tgt Ion:228 Resp: 1418

Ion Ratio Lower Upper

228 100

226 30.6 24.6 37.0

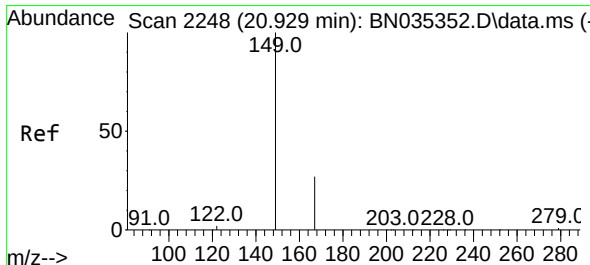
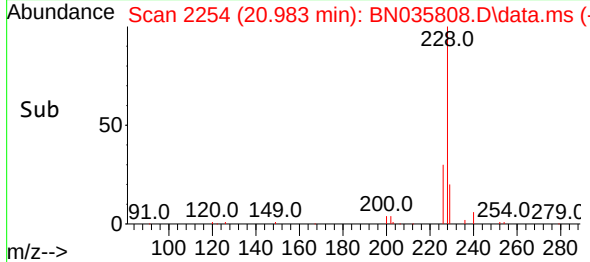
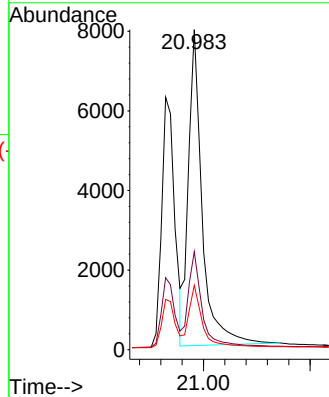
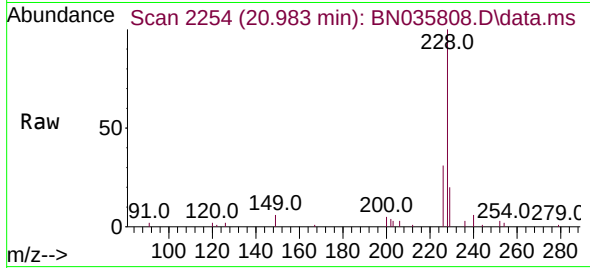
229 20.1 15.9 23.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/24/2024

Supervised By :mohammad ahmed 12/26/2024



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.355 ng

RT: 20.902 min Scan# 2245

Delta R.T. -0.009 min

Lab File: BN035808.D

Acq: 24 Dec 2024 06:34

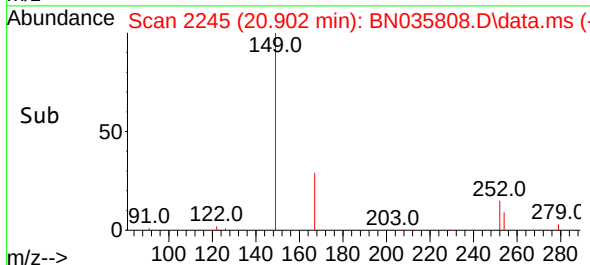
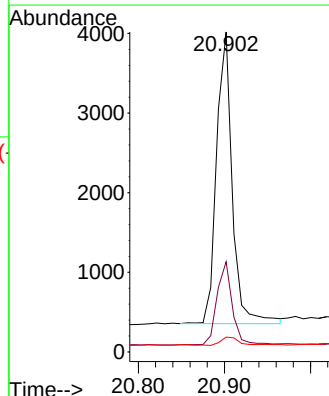
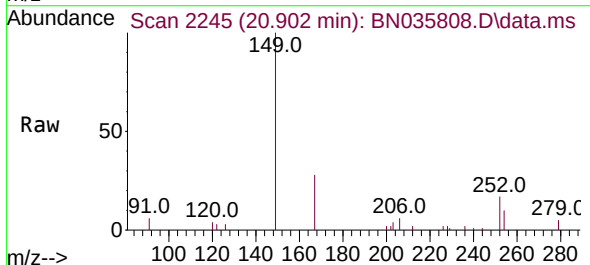
Tgt Ion:149 Resp: 4640

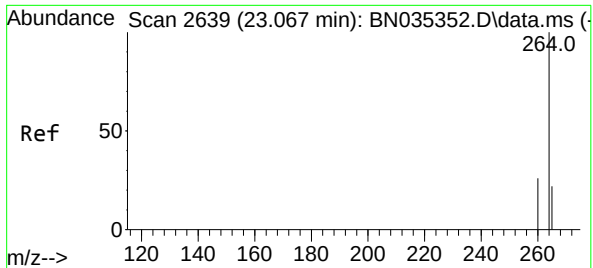
Ion Ratio Lower Upper

149 100

167 27.6 22.2 33.4

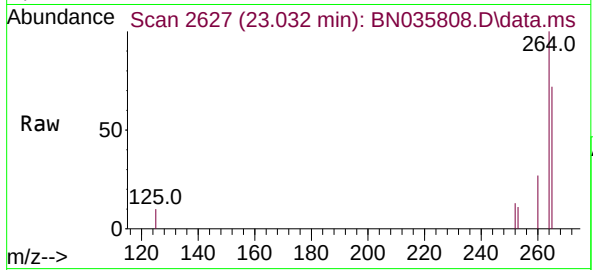
279 3.2 2.7 4.1





#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.032 min Scan# 2627  
Delta R.T. -0.009 min  
Lab File: BN035808.D  
Acq: 24 Dec 2024 06:34

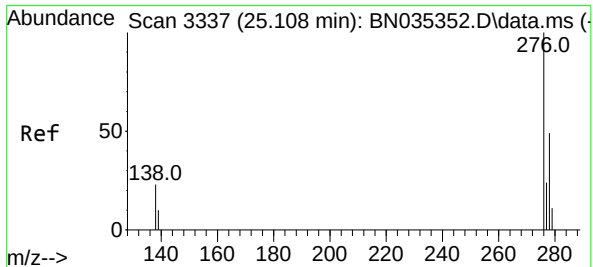
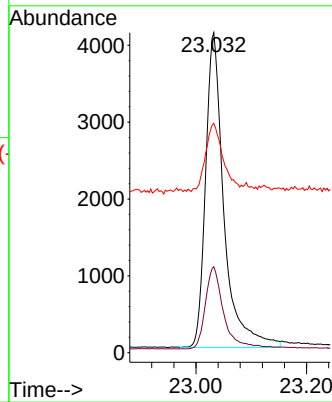
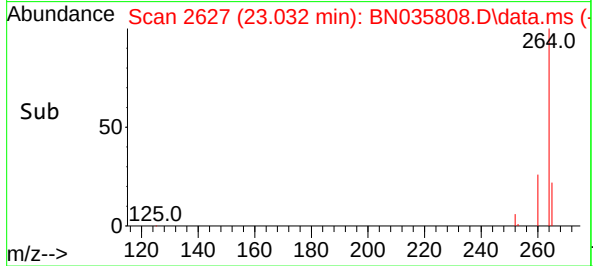
Instrument :  
BNA\_N  
ClientSampleId :  
PB165667BS



Tgt Ion:264 Resp: 9435  
Ion Ratio Lower Upper  
264 100  
260 26.9 21.4 32.2  
265 71.7 40.2 60.4

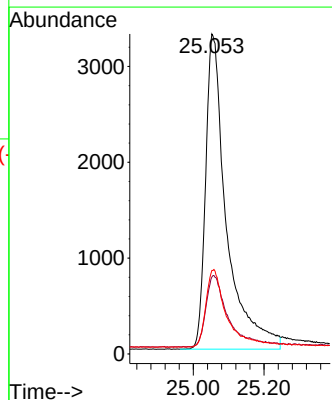
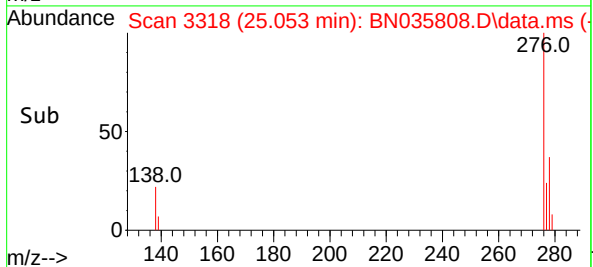
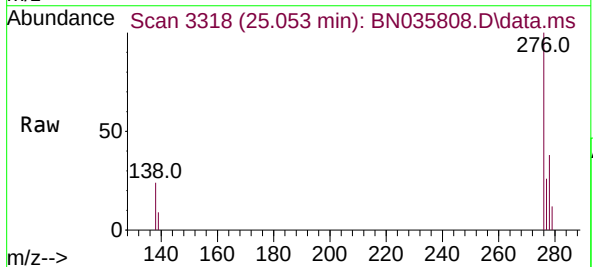
Manual Integrations  
APPROVED

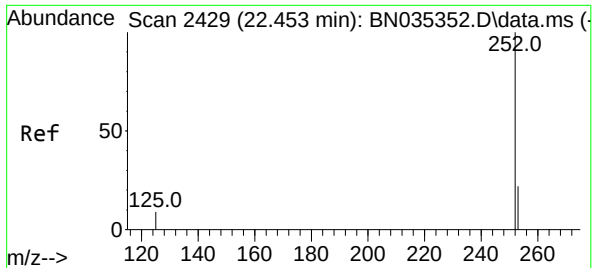
Reviewed By :Yogesh Patel 12/24/2024  
Supervised By :mohammad ahmed 12/26/2024



#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.366 ng  
RT: 25.053 min Scan# 3318  
Delta R.T. -0.015 min  
Lab File: BN035808.D  
Acq: 24 Dec 2024 06:34

Tgt Ion:276 Resp: 13497  
Ion Ratio Lower Upper  
276 100  
138 22.1 19.4 29.0  
277 24.4 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.657 ng

RT: 22.421 min Scan# 2418

Delta R.T. -0.009 min

Lab File: BN035808.D

Acq: 24 Dec 2024 06:34

Instrument :

BNA\_N

ClientSampleId :

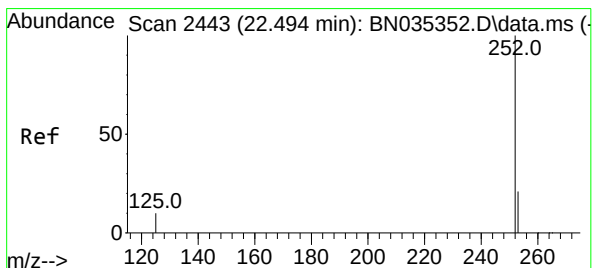
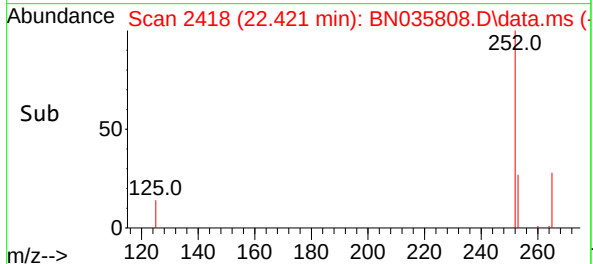
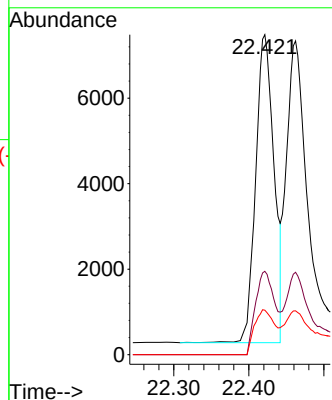
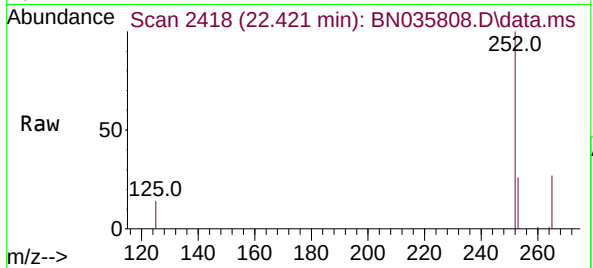
PB165667BS

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 252   | Resp: | 2267 |
| Ion Ratio | Lower | Upper |      |
| 252       | 100   |       |      |
| 253       | 26.1  | 19.6  | 29.4 |
| 125       | 13.9  | 9.6   | 14.4 |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/24/2024  
Supervised By :mohammad ahmed 12/26/2024



#38

Benzo(k)fluoranthene

Concen: 0.422 ng

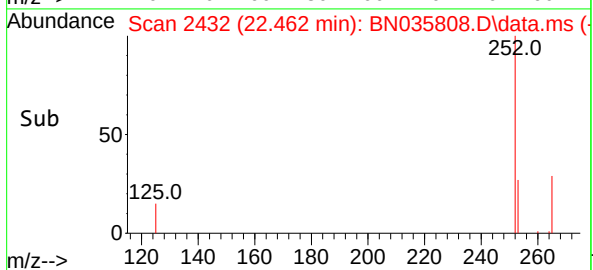
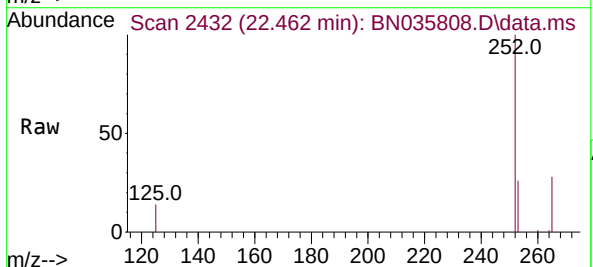
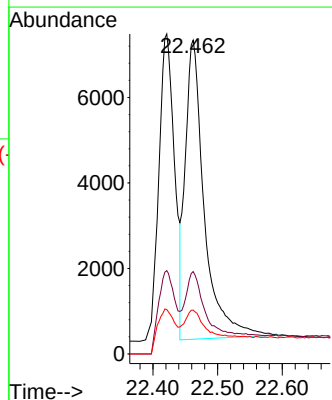
RT: 22.462 min Scan# 2432

Delta R.T. -0.009 min

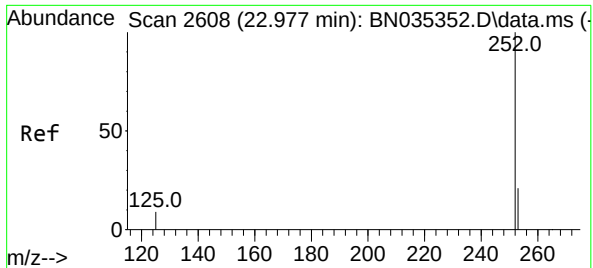
Lab File: BN035808.D

Acq: 24 Dec 2024 06:34

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 14330 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 26.2  | 19.5  | 29.3  |
| 125       | 14.0  | 10.2  | 15.4  |







#39

Benzo(a)pyrene

Concen: 0.395 ng

RT: 22.942 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035808.D

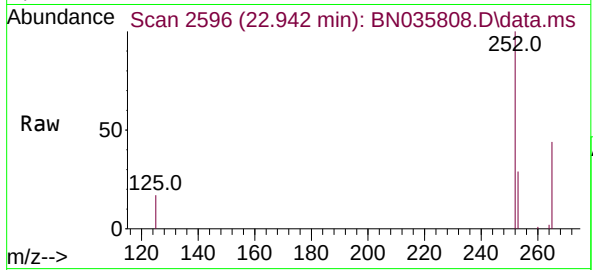
Acq: 24 Dec 2024 06:34

Instrument :

BNA\_N

ClientSampleId :

PB165667BS



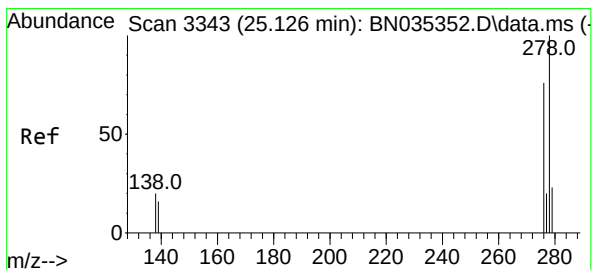
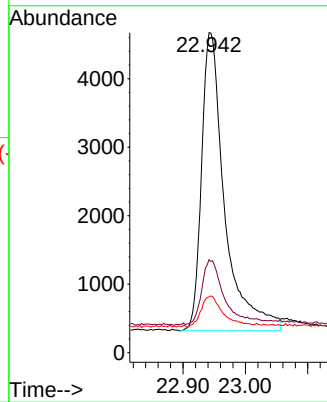
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 252   | Resp: | 1122 |
| Ion Ratio | Lower | Upper |      |
| 252       | 100   |       |      |
| 253       | 29.1  | 20.2  | 30.4 |
| 125       | 17.5  | 10.9  | 16.3 |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/24/2024

Supervised By :mohammad ahmed 12/26/2024



#40

Dibenzo(a,h)anthracene

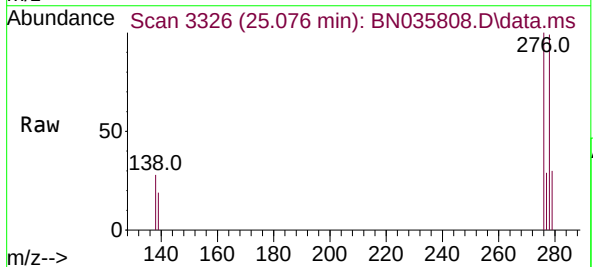
Concen: 0.336 ng

RT: 25.076 min Scan# 3326

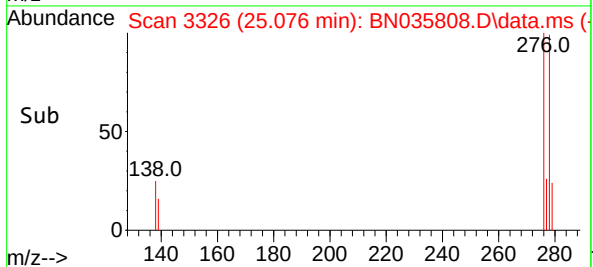
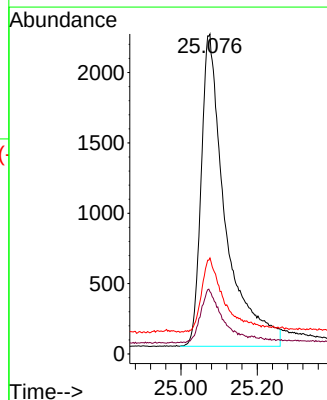
Delta R.T. -0.006 min

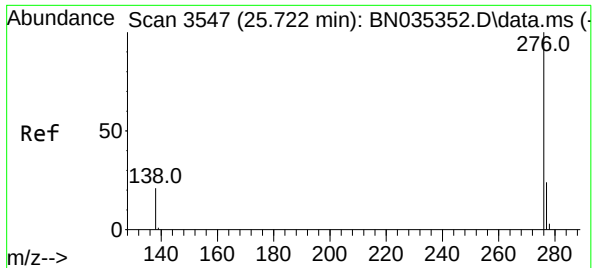
Lab File: BN035808.D

Acq: 24 Dec 2024 06:34



|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 278   | Resp: | 9782 |
| Ion Ratio | Lower | Upper |      |
| 278       | 100   |       |      |
| 139       | 19.5  | 14.2  | 21.4 |
| 279       | 30.0  | 20.5  | 30.7 |





#41

Benzo(g,h,i)perylene

Concen: 0.380 ng

RT: 25.664 min Scan# 31

Delta R.T. -0.015 min

Lab File: BN035808.D

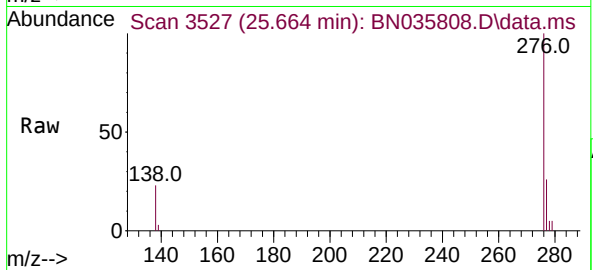
Acq: 24 Dec 2024 06:34

Instrument :

BNA\_N

ClientSampleId :

PB165667BS



Tgt Ion:276 Resp: 11572

Ion Ratio Lower Upper

276 100

277 25.7 19.9 29.9

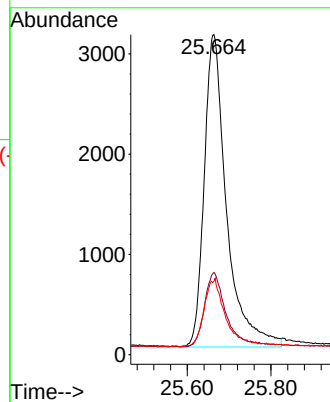
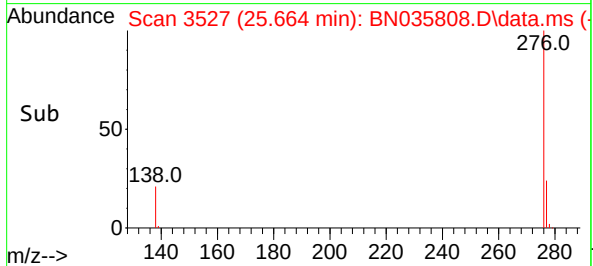
138 22.9 17.8 26.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/24/2024

Supervised By :mohammad ahmed 12/26/2024



## Report of Analysis

|                    |                      |                  |                 |                |
|--------------------|----------------------|------------------|-----------------|----------------|
| Client:            | Tetra Tech NUS, Inc. |                  | Date Collected: | 12/12/24       |
| Project:           | CTO WE13             |                  | Date Received:  | 12/13/24       |
| Client Sample ID:  | BPOW6-11-20241212MS  |                  | SDG No.:        | P5284          |
| Lab Sample ID:     | P5280-04MS           |                  | Matrix:         | Water          |
| Analytical Method: | SW8270ESIM           |                  | % Solid:        | 0              |
| Sample Wt/Vol:     | 990                  | Units: mL        | Final Vol:      | 1000 uL        |
| Soil Aliquot Vol:  |                      | uL               | Test:           | SVOC-SIMGroup1 |
| Extraction Type :  |                      | Decanted : N     | Level :         | LOW            |
| Injection Volume : |                      | GPC Factor : 1.0 | GPC Cleanup :   | N PH :         |
| Prep Method :      |                      |                  |                 |                |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BN035735.D        | 1         | 12/16/24 11:30 | 12/20/24 11:05 | PB165667      |

| CAS Number                | Parameter               | Conc. | Qualifier | MDL      | LOD  | LOQ / CRQL | Units    |
|---------------------------|-------------------------|-------|-----------|----------|------|------------|----------|
| <b>TARGETS</b>            |                         |       |           |          |      |            |          |
| 123-91-1                  | 1,4-Dioxane             | 0.53  |           | 0.070    | 0.20 | 0.20       | ug/L     |
| <b>SURROGATES</b>         |                         |       |           |          |      |            |          |
| 7297-45-2                 | 2-Methylnaphthalene-d10 | 0.32  |           | 30 - 150 |      | 79%        | SPK: 0.4 |
| 93951-69-0                | Fluoranthene-d10        | 0.38  |           | 30 - 150 |      | 95%        | SPK: 0.4 |
| 4165-60-0                 | Nitrobenzene-d5         | 0.35  |           | 55 - 111 |      | 88%        | SPK: 0.4 |
| 321-60-8                  | 2-Fluorobiphenyl        | 0.28  |           | 53 - 106 |      | 70%        | SPK: 0.4 |
| 1718-51-0                 | Terphenyl-d14           | 0.49  |           | 58 - 132 |      | 122%       | SPK: 0.4 |
| <b>INTERNAL STANDARDS</b> |                         |       |           |          |      |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4  | 3050  | 7.271     |          |      |            |          |
| 1146-65-2                 | Naphthalene-d8          | 8360  | 10.009    |          |      |            |          |
| 15067-26-2                | Acenaphthene-d10        | 5200  | 13.924    |          |      |            |          |
| 1517-22-2                 | Phenanthrene-d10        | 10500 | 16.698    |          |      |            |          |
| 1719-03-5                 | Chrysene-d12            | 9280  | 20.947    |          |      |            |          |
| 1520-96-3                 | Perylene-d12            | 9470  | 23.038    |          |      |            |          |

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\BN121924\  
 Data File : BN035735.D  
 Acq On : 20 Dec 2024 11:05  
 Operator : RC/JU  
 Sample : P5280-04MS  
 Misc :  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 BPOW6-11-20241212MS

### Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/21/2024  
 Supervised By :mohammad ahmed 12/24/2024

Quant Time: Dec 20 11:38:22 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Dec 19 23:06:19 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.271  | 152  | 3051     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.009 | 136  | 8358     | 0.400 | ng    | -0.01    |
| 13) Acenaphthene-d10          | 13.924 | 164  | 5197     | 0.400 | ng    | -0.01    |
| 19) Phenanthrene-d10          | 16.698 | 188  | 10502    | 0.400 | ng    | # 0.00   |
| 29) Chrysene-d12              | 20.947 | 240  | 9278     | 0.400 | ng    | # 0.00   |
| 35) Perylene-d12              | 23.038 | 264  | 9467     | 0.400 | ng    | # 0.00   |
|                               |        |      |          |       |       |          |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 4.939  | 112  | 857      | 0.112 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.484  | 99   | 610      | 0.066 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.408  | 82   | 1791m    | 0.351 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.615 | 152  | 4131     | 0.316 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.453 | 330  | 679      | 0.184 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.538 | 172  | 5479     | 0.279 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 18.757 | 212  | 11313    | 0.380 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.388 | 244  | 8932     | 0.488 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| Target Compounds              |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 2.981  | 88   | 1540     | 0.528 | ng    | # 84     |
| 3) n-Nitrosodimethylamine     | 3.270  | 42   | 330      | 0.136 | ng    | # 78     |
| 6) bis(2-Chloroethyl)ether    | 6.723  | 93   | 2206     | 0.286 | ng    | 98       |
| 9) Naphthalene                | 10.062 | 128  | 6003     | 0.272 | ng    | 99       |
| 10) Hexachlorobutadiene       | 10.351 | 225  | 846      | 0.166 | ng    | # 98     |
| 12) 2-Methylnaphthalene       | 11.691 | 142  | 3950     | 0.250 | ng    | 99       |
| 16) Acenaphthylene            | 13.636 | 152  | 6604     | 0.303 | ng    | 100      |
| 17) Acenaphthene              | 13.988 | 154  | 4230     | 0.292 | ng    | 98       |
| 18) Fluorene                  | 14.993 | 166  | 5719     | 0.276 | ng    | 100      |
| 20) 4,6-Dinitro-2-methylph... | 15.122 | 198  | 103      | 0.100 | ng    | # 1      |
| 21) 4-Bromophenyl-phenylether | 15.904 | 248  | 2167     | 0.353 | ng    | # 84     |
| 22) Hexachlorobenzene         | 16.003 | 284  | 2445     | 0.339 | ng    | 96       |
| 23) Atrazine                  | 16.202 | 200  | 1259     | 0.288 | ng    | 94       |
| 24) Pentachlorophenol         | 16.375 | 266  | 273      | 0.087 | ng    | # 79     |
| 25) Phenanthrene              | 16.735 | 178  | 10260    | 0.356 | ng    | 100      |
| 26) Anthracene                | 16.835 | 178  | 8925     | 0.342 | ng    | 99       |
| 28) Fluoranthene              | 18.789 | 202  | 12930    | 0.332 | ng    | 99       |
| 30) Pyrene                    | 19.156 | 202  | 13495    | 0.394 | ng    | 99       |
| 32) Benzo(a)anthracene        | 20.938 | 228  | 11302    | 0.348 | ng    | 99       |
| 33) Chrysene                  | 20.982 | 228  | 12637    | 0.378 | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 20.902 | 149  | 6113     | 0.477 | ng    | # 97     |
| 36) Indeno(1,2,3-cd)pyrene    | 25.061 | 276  | 12412    | 0.335 | ng    | 97       |
| 37) Benzo(b)fluoranthene      | 22.427 | 252  | 18573    | 0.536 | ng    | 95       |
| 38) Benzo(k)fluoranthene      | 22.468 | 252  | 12887m   | 0.378 | ng    |          |
| 39) Benzo(a)pyrene            | 22.950 | 252  | 9310     | 0.326 | ng    | # 90     |
| 40) Dibenzo(a,h)anthracene    | 25.082 | 278  | 9663     | 0.331 | ng    | 95       |
| 41) Benzo(g,h,i)perylene      | 25.675 | 276  | 9301     | 0.305 | ng    | 99       |

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

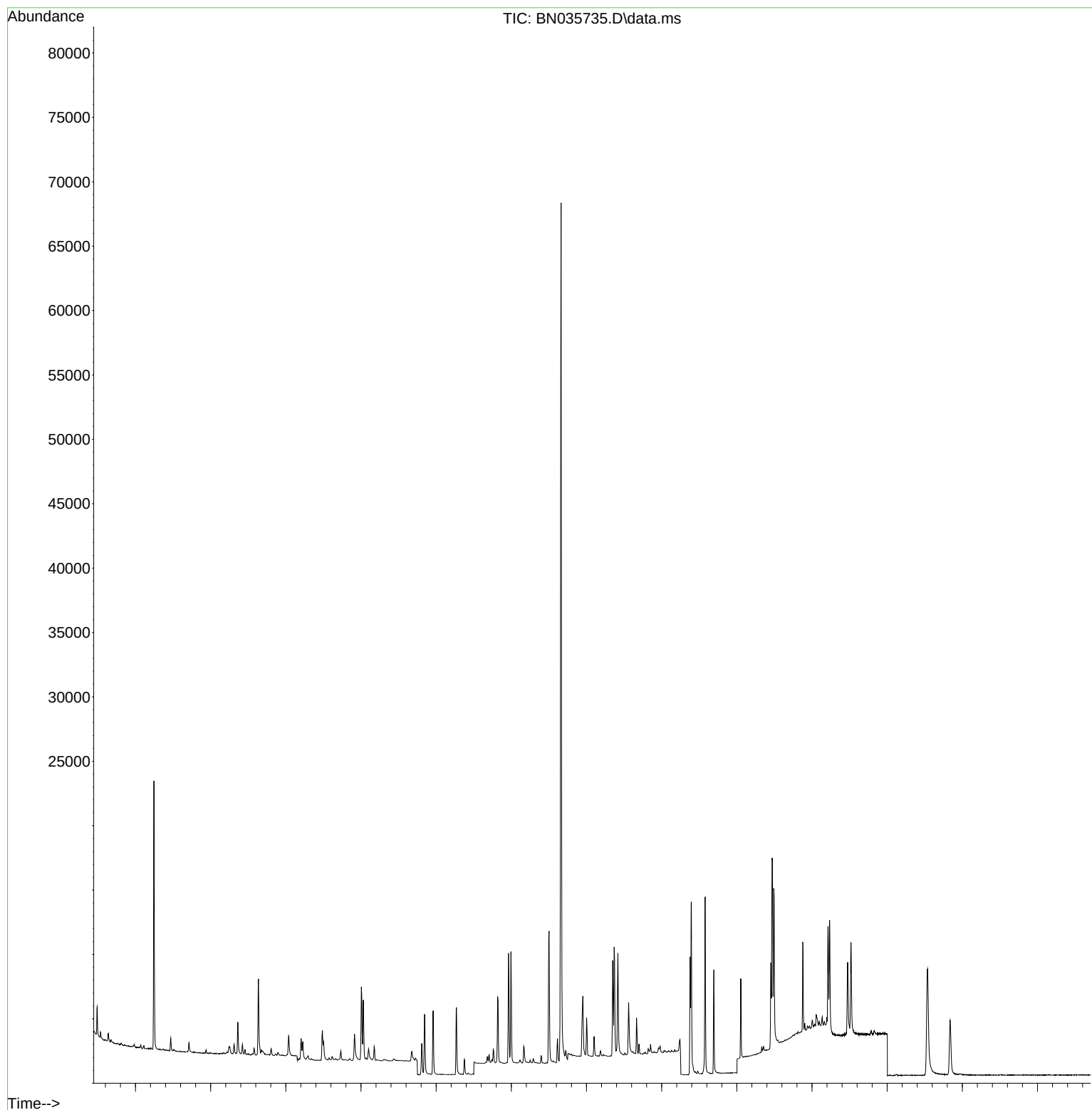
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN121924\  
Data File : BN035735.D  
Acq On : 20 Dec 2024 11:05  
Operator : RC/JU  
Sample : P5280-04MS  
Misc :  
ALS Vial : 26 Sample Multiplier: 1

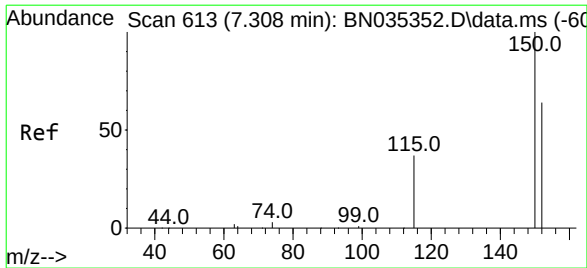
Instrument :  
BNA\_N  
ClientSampleId :  
BPOW6-11-20241212MS

Manual Integrations  
**APPROVED**

Reviewed By :Yogesh Patel 12/21/2024  
Supervised By :mohammad ahmed 12/24/2024

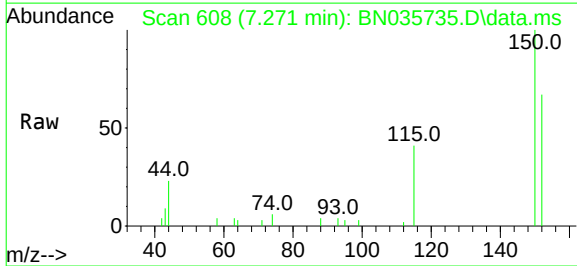
Quant Time: Dec 20 11:38:22 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Dec 19 23:06:19 2024  
Response via : Initial Calibration





#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.271 min Scan# 60  
Delta R.T. -0.001 min  
Lab File: BN035735.D  
Acq: 20 Dec 2024 11:05

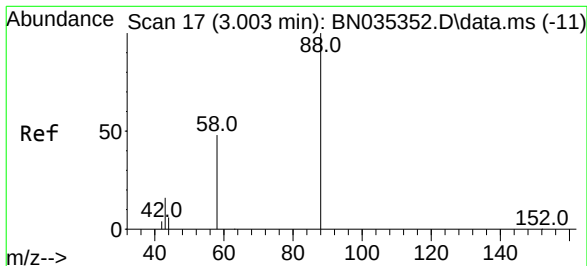
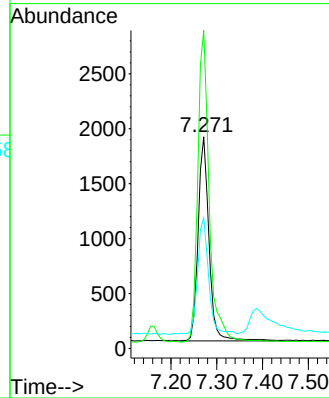
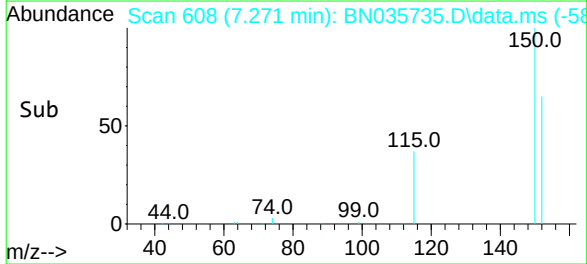
Instrument :  
BNA\_N  
ClientSampleId :  
BPOW6-11-20241212MS



Tgt Ion: 152 Resp: 3051  
Ion Ratio Lower Upper  
152 100  
150 150.2 124.0 186.0  
115 61.6 49.6 74.4

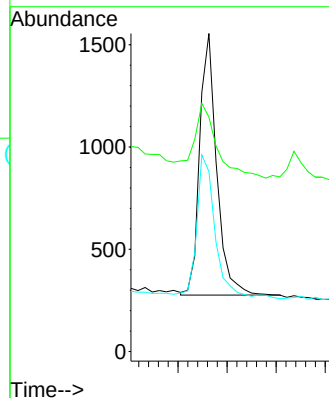
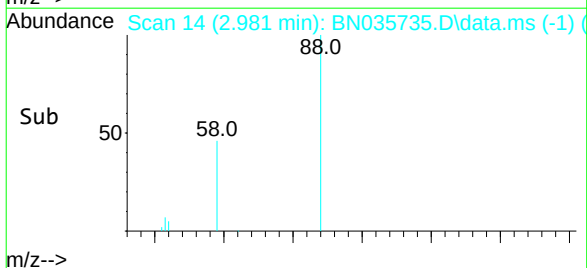
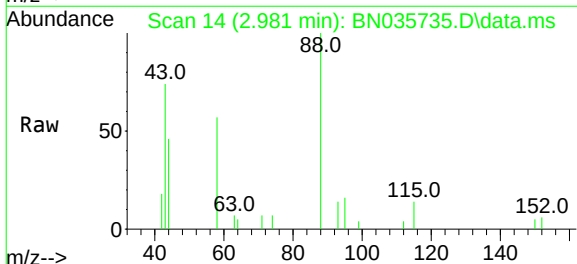
Manual Integrations  
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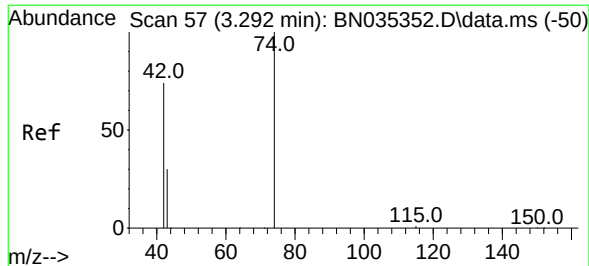
Reviewed By :Yogesh Patel 12/21/2024  
Supervised By :mohammad ahmed 12/24/2024



#2  
1,4-Dioxane  
Concen: 0.528 ng  
RT: 2.981 min Scan# 14  
Delta R.T. -0.000 min  
Lab File: BN035735.D  
Acq: 20 Dec 2024 11:05

Tgt Ion: 88 Resp: 1540  
Ion Ratio Lower Upper  
88 100  
43 40.1 17.2 25.8#  
58 60.8 44.5 66.7





#3

n-Nitrosodimethylamine

Concen: 0.136 ng

RT: 3.270 min Scan# 54

Delta R.T. -0.007 min

Lab File: BN035735.D

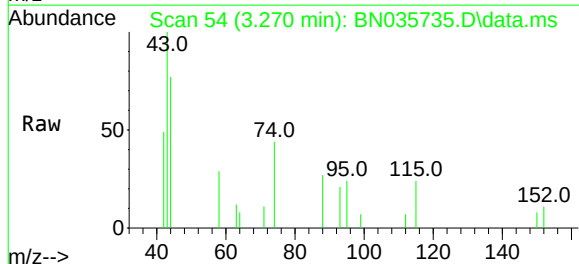
Acq: 20 Dec 2024 11:05

Instrument :

BNA\_N

ClientSampleId :

BPOW6-11-20241212MS



Tgt Ion: 42 Resp: 330

Ion Ratio Lower Upper

42 100

74 184.5 124.9 187.3

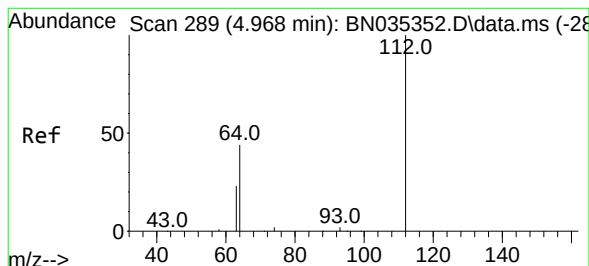
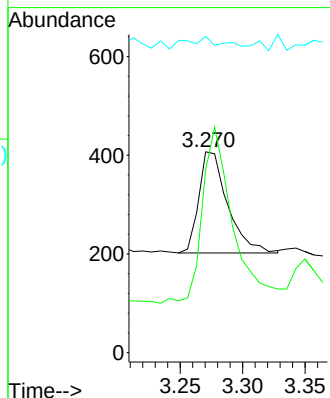
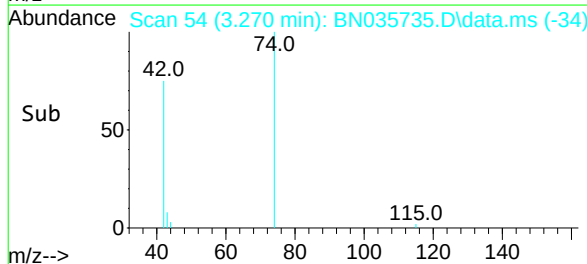
44 0.0 2.2 3.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/21/2024

Supervised By :mohammad ahmed 12/24/2024



#4

2-Fluorophenol

Concen: 0.112 ng

RT: 4.939 min Scan# 285

Delta R.T. -0.000 min

Lab File: BN035735.D

Acq: 20 Dec 2024 11:05

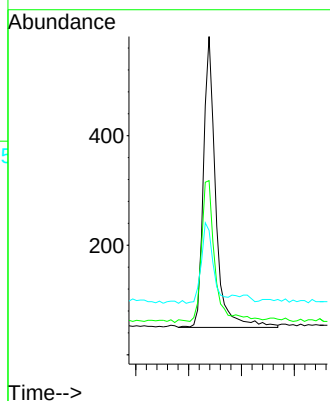
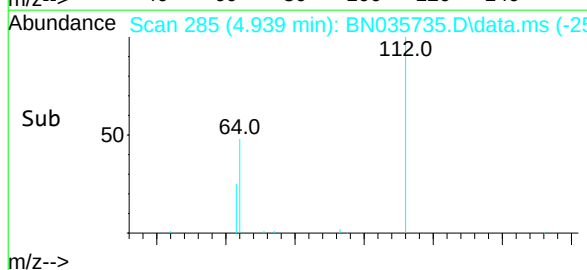
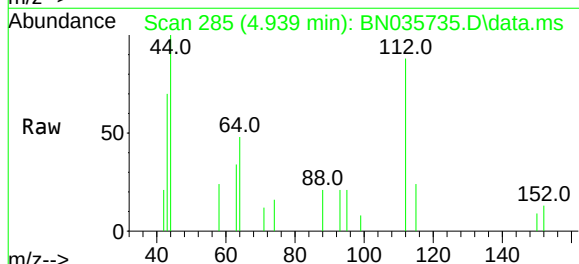
Tgt Ion:112 Resp: 857

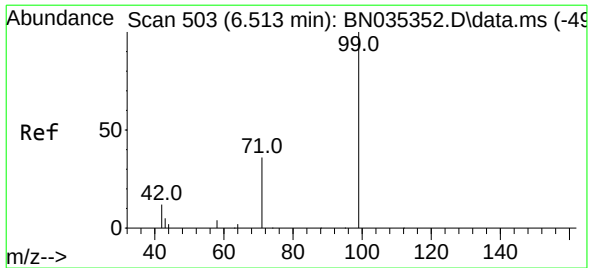
Ion Ratio Lower Upper

112 100

64 52.4 39.8 59.8

63 26.8 21.0 31.6





#5

Phenol-d6

Concen: 0.066 ng

RT: 6.484 min Scan# 49

Delta R.T. -0.007 min

Lab File: BN035735.D

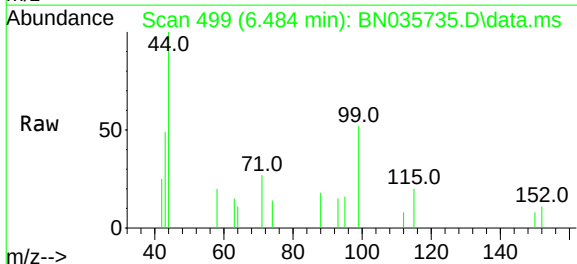
Acq: 20 Dec 2024 11:05

Instrument :

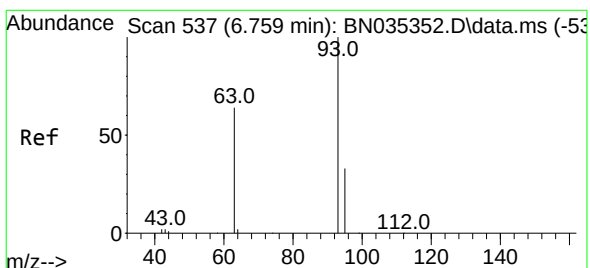
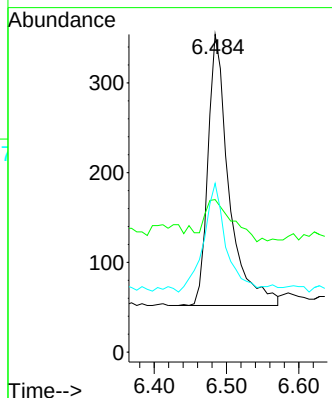
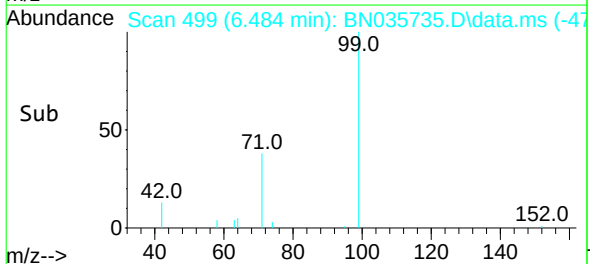
BNA\_N

ClientSampleId :

BPOW6-11-20241212MS



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 99      | 100   |       |       |
| 42      | 19.2  | 11.4  | 17.2  |
| 71      | 43.3  | 29.3  | 43.9  |

Manual Integrations  
APPROVEDReviewed By :Yogesh Patel 12/21/2024  
Supervised By :mohammad ahmed 12/24/2024

#6

bis(2-Chloroethyl)ether

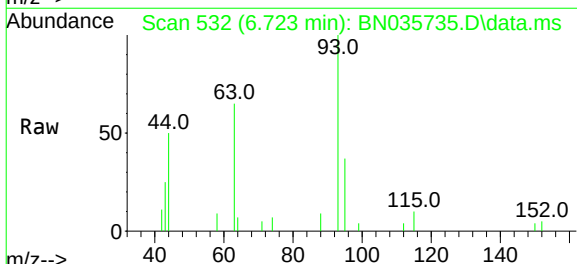
Concen: 0.286 ng

RT: 6.723 min Scan# 532

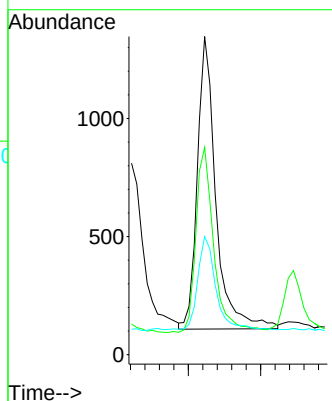
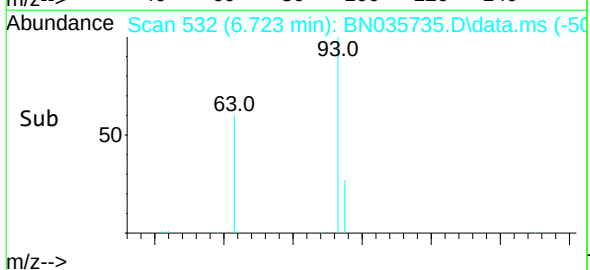
Delta R.T. -0.007 min

Lab File: BN035735.D

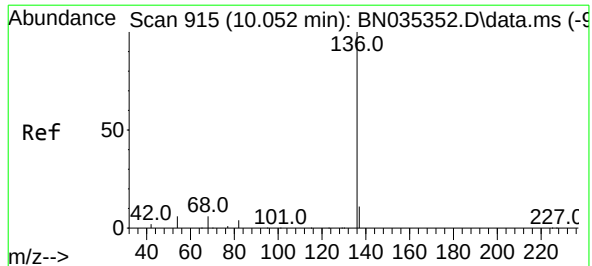
Acq: 20 Dec 2024 11:05



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 93      | 100   |       |       |
| 63      | 61.4  | 50.4  | 75.6  |
| 95      | 30.6  | 25.7  | 38.5  |

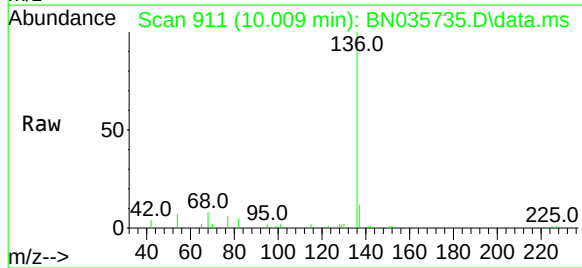






#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.009 min Scan# 915  
Delta R.T. -0.011 min  
Lab File: BN035735.D  
Acq: 20 Dec 2024 11:05

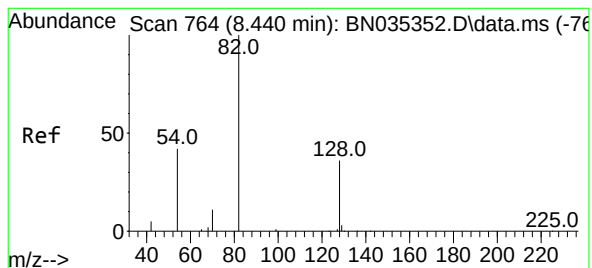
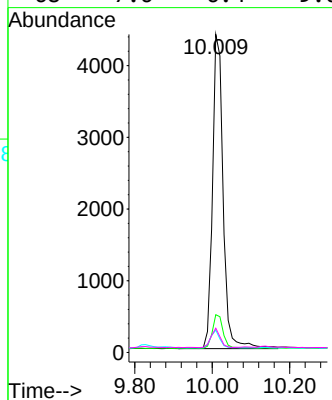
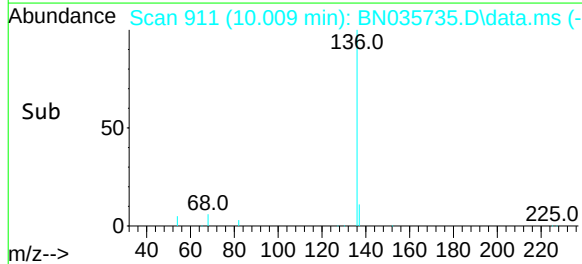
Instrument : BNA\_N  
ClientSampleId : BPOW6-11-20241212MS



Tgt Ion: 136 Resp: 8358  
Ion Ratio Lower Upper  
136 100  
137 11.9 10.2 15.2  
54 7.0 6.1 9.1  
68 7.6 6.4 9.6

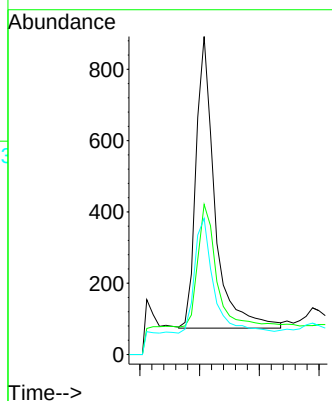
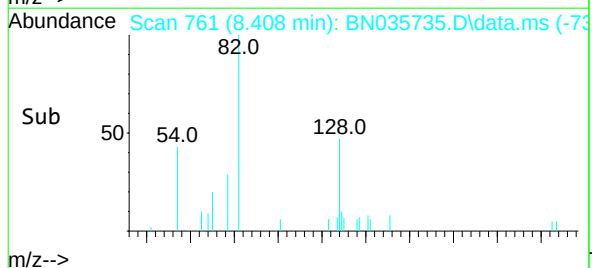
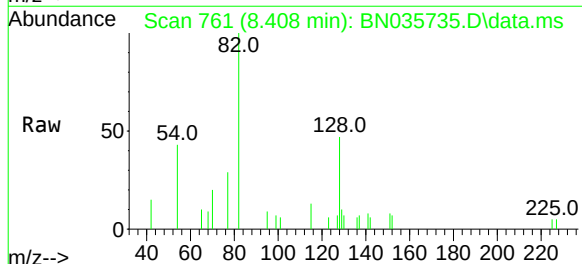
Manual Integrations  
APPROVED

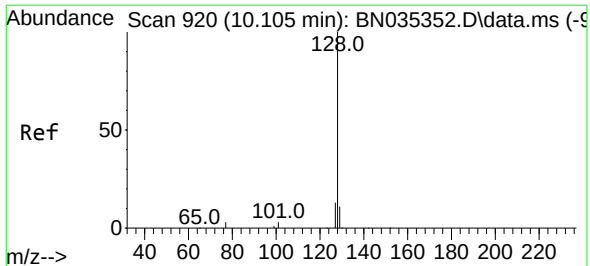
Reviewed By :Yogesh Patel 12/21/2024  
Supervised By :mohammad ahmed 12/24/2024



#8  
Nitrobenzene-d5  
Concen: 0.351 ng m  
RT: 8.408 min Scan# 761  
Delta R.T. -0.000 min  
Lab File: BN035735.D  
Acq: 20 Dec 2024 11:05

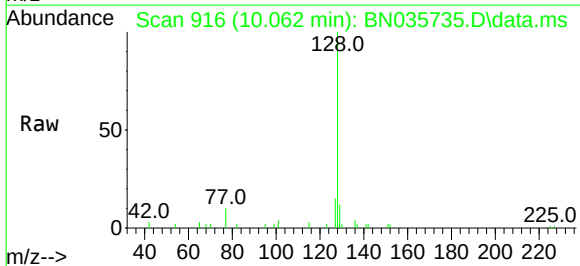
Tgt Ion: 82 Resp: 1791  
Ion Ratio Lower Upper  
82 100  
128 47.2 33.4 50.0  
54 42.8 36.7 55.1



#9  
Naphthalene

Concen: 0.272 ng  
 RT: 10.062 min Scan# 916  
 Delta R.T. -0.000 min  
 Lab File: BN035735.D  
 Acq: 20 Dec 2024 11:05

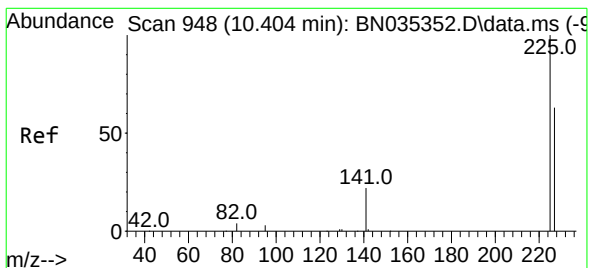
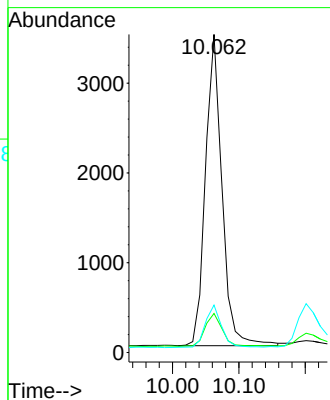
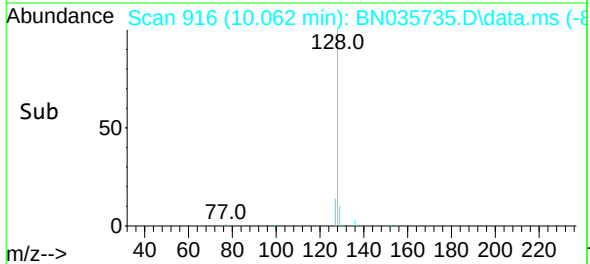
Instrument :  
 BNA\_N  
 ClientSampleId :  
 BPOW6-11-20241212MS



Tgt Ion:128 Resp: 6003  
 Ion Ratio Lower Upper  
 128 100  
 129 12.3 9.8 14.6  
 127 14.9 11.4 17.2

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 12/21/2024  
 Supervised By :mohammad ahmed 12/24/2024

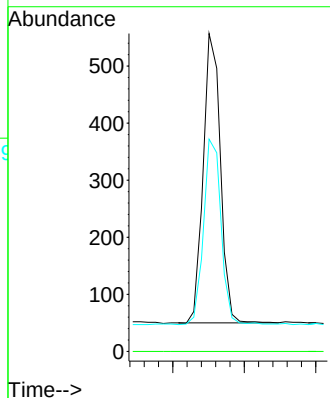
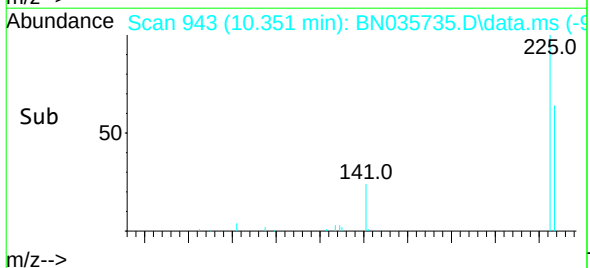
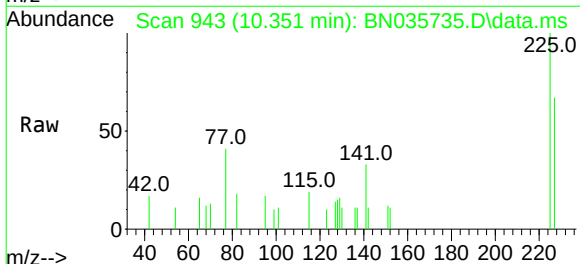


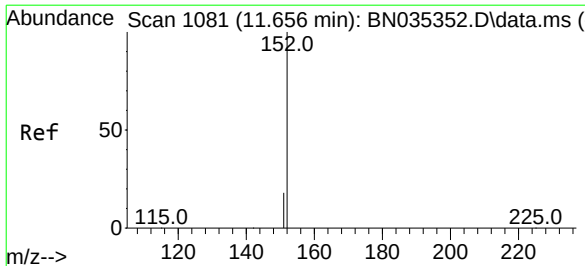
#10

Hexachlorobutadiene

Concen: 0.166 ng  
 RT: 10.351 min Scan# 943  
 Delta R.T. -0.011 min  
 Lab File: BN035735.D  
 Acq: 20 Dec 2024 11:05

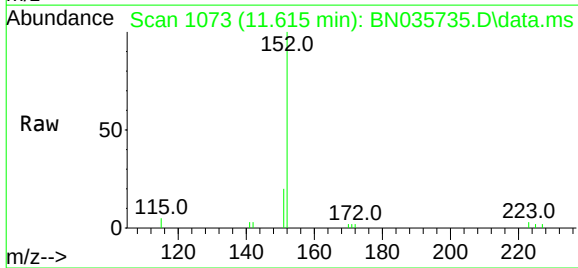
Tgt Ion:225 Resp: 846  
 Ion Ratio Lower Upper  
 225 100  
 223 0.0 0.0 0.0  
 227 65.4 51.3 76.9





#11  
2-Methylnaphthalene-d10  
Concen: 0.316 ng  
RT: 11.615 min Scan# 1073  
Delta R.T. -0.005 min  
Lab File: BN035735.D  
Acq: 20 Dec 2024 11:05

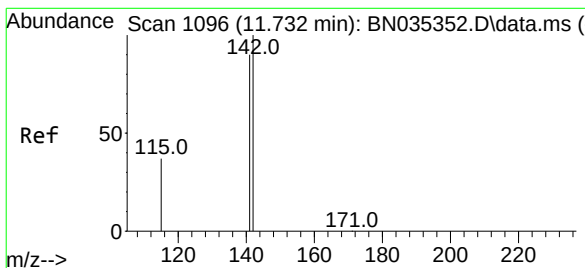
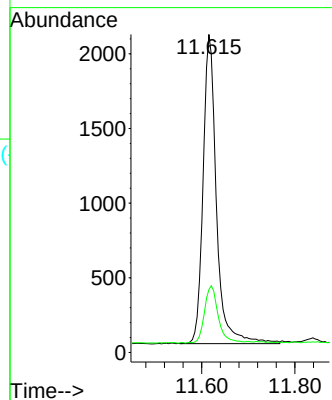
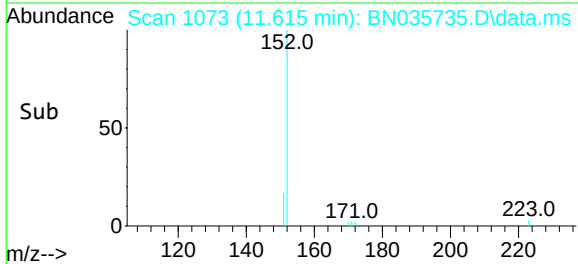
Instrument :  
BNA\_N  
ClientSampleId :  
BPOW6-11-20241212MS



Tgt Ion:152 Resp: 4131  
Ion Ratio Lower Upper  
152 100  
151 19.0 16.6 25.0

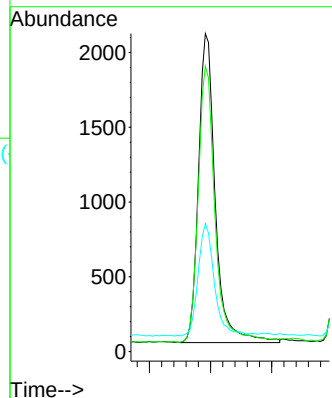
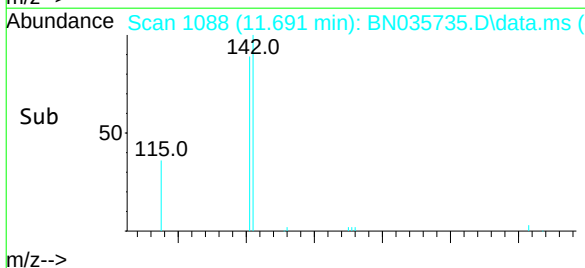
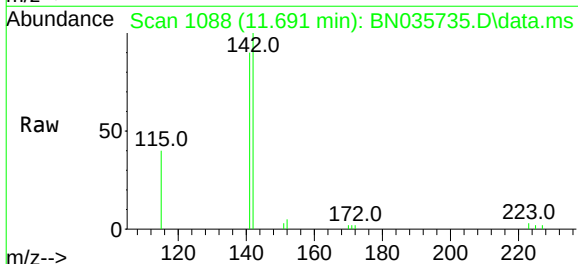
Manual Integrations  
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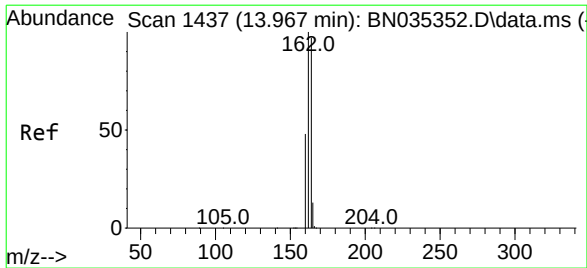
Reviewed By :Yogesh Patel 12/21/2024  
Supervised By :mohammad ahmed 12/24/2024



#12  
2-Methylnaphthalene  
Concen: 0.250 ng  
RT: 11.691 min Scan# 1088  
Delta R.T. -0.005 min  
Lab File: BN035735.D  
Acq: 20 Dec 2024 11:05

Tgt Ion:142 Resp: 3950  
Ion Ratio Lower Upper  
142 100  
141 89.8 72.2 108.4  
115 40.2 31.4 47.0





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 13.924 min Scan# 14

Delta R.T. -0.011 min

Lab File: BN035735.D

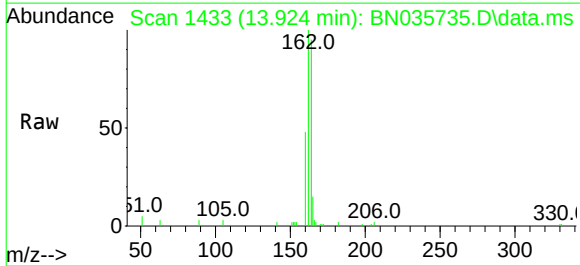
Acq: 20 Dec 2024 11:05

Instrument :

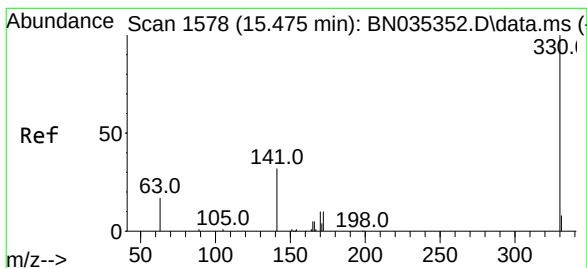
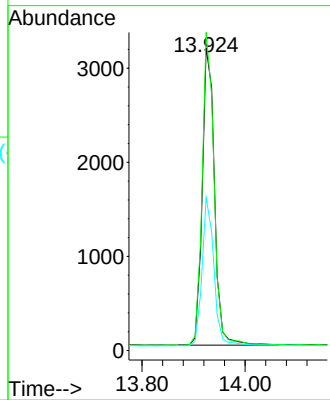
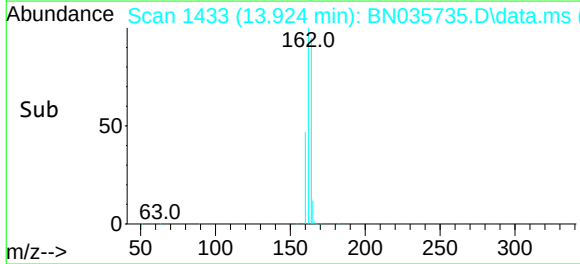
BNA\_N

ClientSampleId :

BPOW6-11-20241212MS



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 5197  |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 162      | 105.0 | 82.2  | 123.2 |
| 160      | 50.5  | 40.1  | 60.1  |

**Manual Integrations**  
**APPROVED**Reviewed By :Yogesh Patel 12/21/2024  
Supervised By :mohammad ahmed 12/24/2024

#14

2,4,6-Tribromophenol

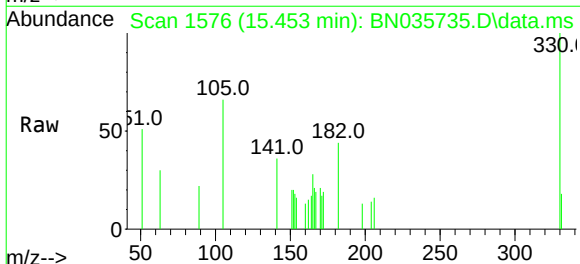
Concen: 0.184 ng

RT: 15.453 min Scan# 1576

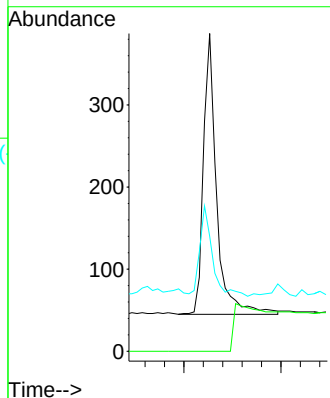
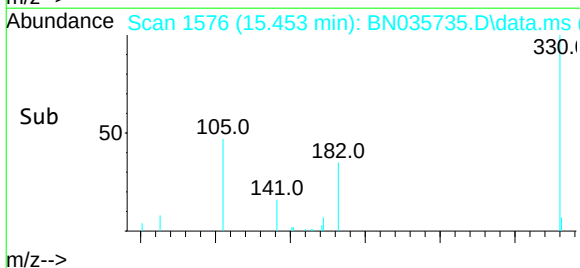
Delta R.T. -0.000 min

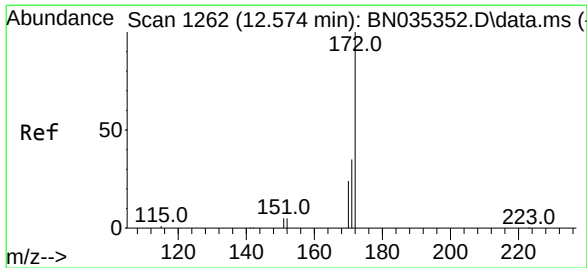
Lab File: BN035735.D

Acq: 20 Dec 2024 11:05



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 330   | Resp: | 679   |
| Ion      | Ratio | Lower | Upper |
| 330      | 100   |       |       |
| 332      | 0.0   | 0.0   | 0.0   |
| 141      | 29.9  | 26.6  | 40.0  |





#15

2-Fluorobiphenyl

Concen: 0.279 ng

RT: 12.538 min Scan# 12

Delta R.T. -0.005 min

Lab File: BN035735.D

Acq: 20 Dec 2024 11:05

Instrument :

BNA\_N

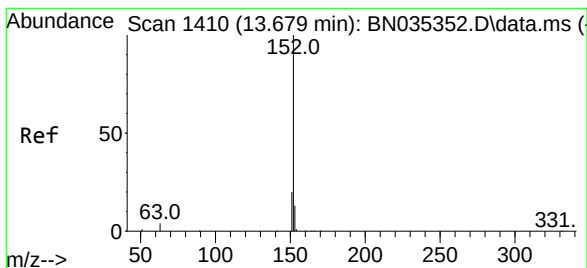
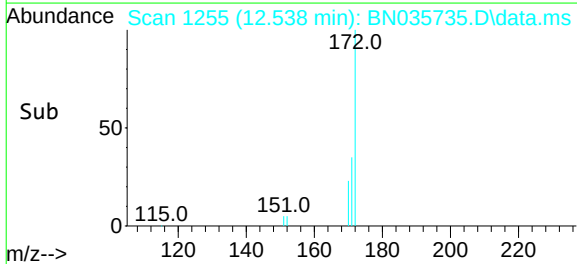
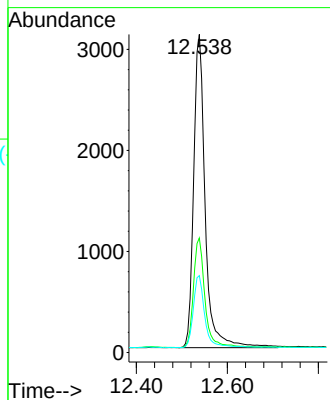
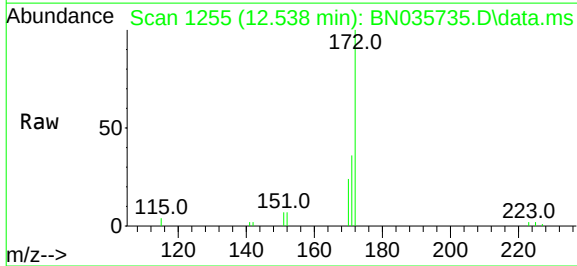
ClientSampleId :

BPOW6-11-20241212MS

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 172   | Resp: | 5479  |
| Ion      | Ratio | Lower | Upper |
| 172      | 100   |       |       |
| 171      | 36.0  | 29.0  | 43.4  |
| 170      | 24.2  | 19.8  | 29.8  |

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 12/21/2024  
Supervised By :mohammad ahmed 12/24/2024



#16

Acenaphthylene

Concen: 0.303 ng

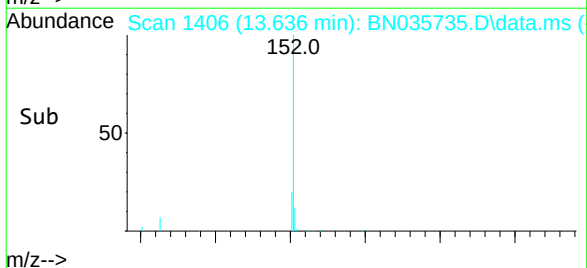
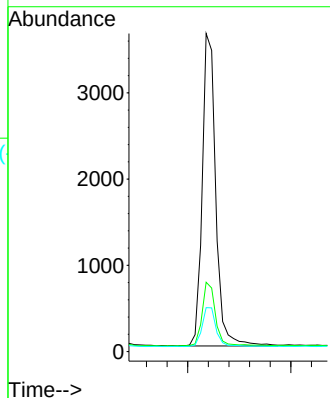
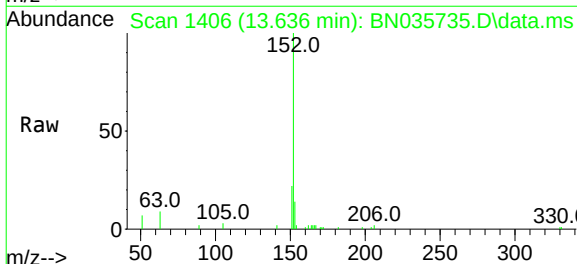
RT: 13.636 min Scan# 1406

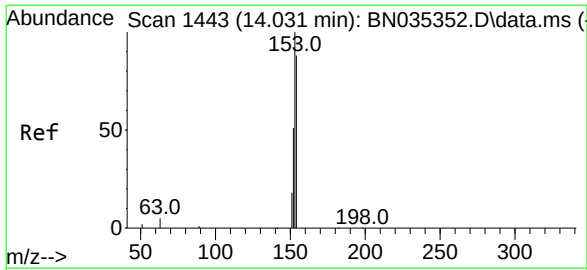
Delta R.T. -0.011 min

Lab File: BN035735.D

Acq: 20 Dec 2024 11:05

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 152   | Resp: | 6604  |
| Ion      | Ratio | Lower | Upper |
| 152      | 100   |       |       |
| 151      | 20.5  | 16.2  | 24.2  |
| 153      | 13.1  | 10.4  | 15.6  |





#17

Acenaphthene

Concen: 0.292 ng

RT: 13.988 min Scan# 14

Delta R.T. -0.011 min

Lab File: BN035735.D

Acq: 20 Dec 2024 11:05

Instrument :

BNA\_N

ClientSampleId :

BPOW6-11-20241212MS

Tgt Ion:154 Resp: 4230

Ion Ratio Lower Upper

154 100

153 116.1 92.6 139.0

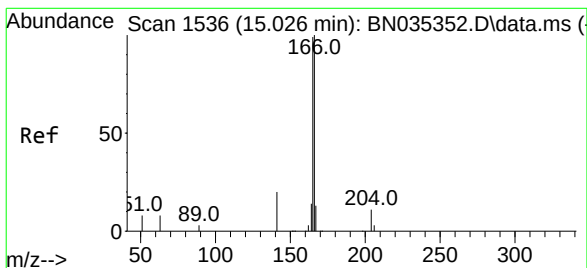
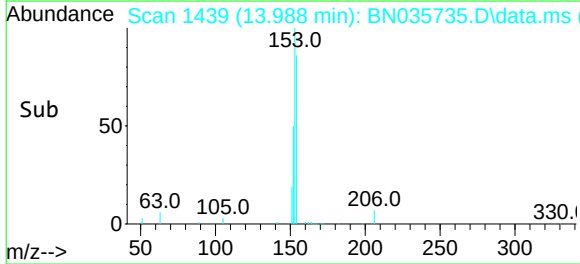
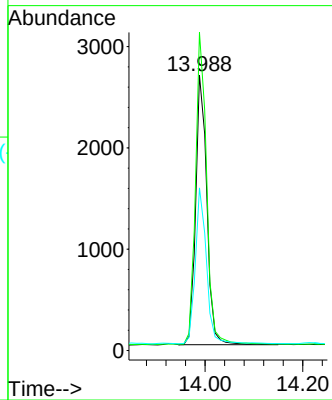
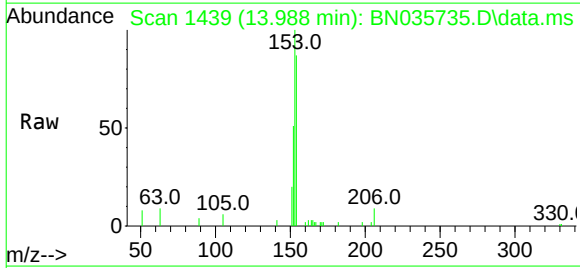
152 57.3 49.0 73.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/21/2024

Supervised By :mohammad ahmed 12/24/2024



#18

Fluorene

Concen: 0.276 ng

RT: 14.993 min Scan# 1533

Delta R.T. -0.011 min

Lab File: BN035735.D

Acq: 20 Dec 2024 11:05

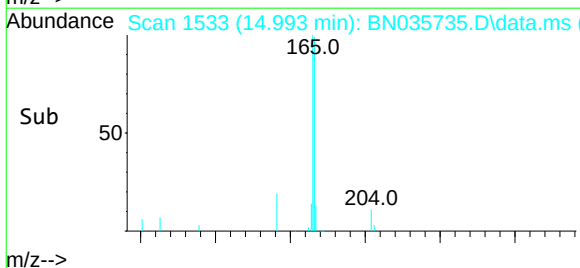
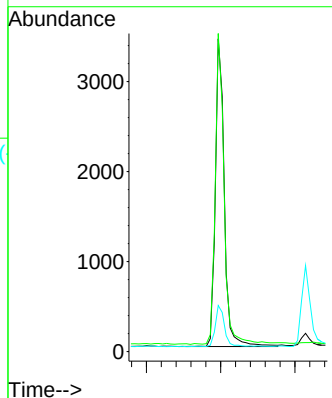
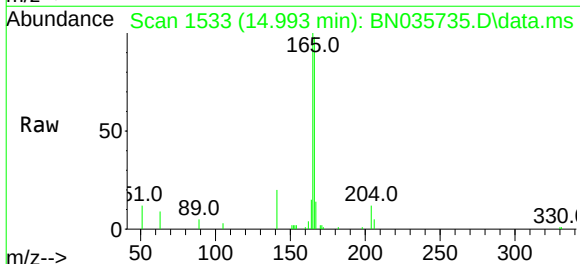
Tgt Ion:166 Resp: 5719

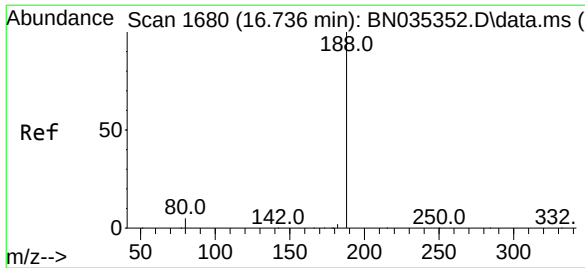
Ion Ratio Lower Upper

166 100

165 99.7 79.7 119.5

167 13.9 10.8 16.2





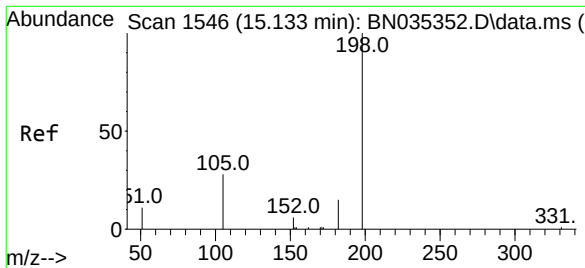
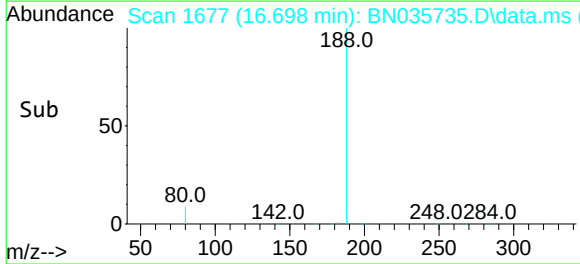
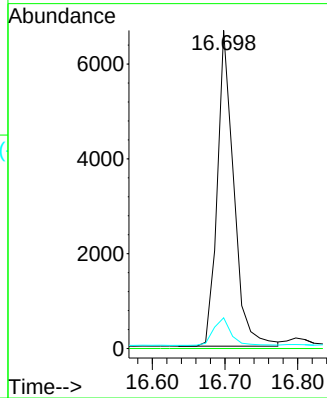
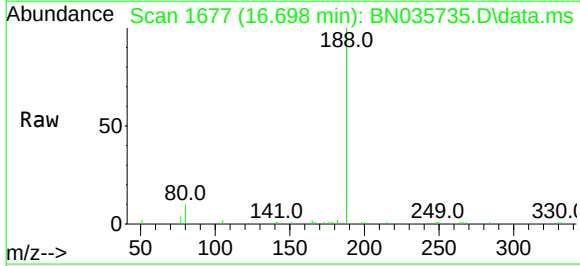
#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 16.698 min Scan# 1680  
Delta R.T. -0.000 min  
Lab File: BN035735.D  
Acq: 20 Dec 2024 11:05

Instrument :  
BNA\_N  
ClientSampleId :  
BPOW6-11-20241212MS

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 0.0   | 0.0   | 0.0   |
| 80      | 9.7   | 4.6   | 6.8   |

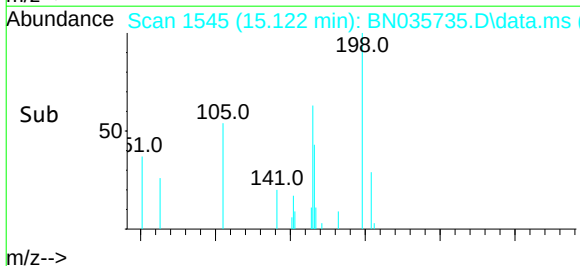
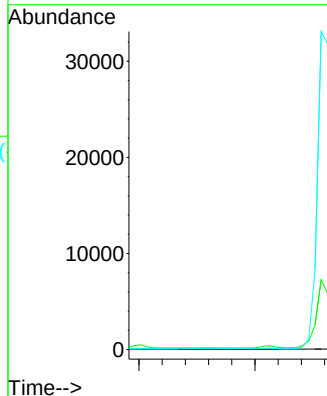
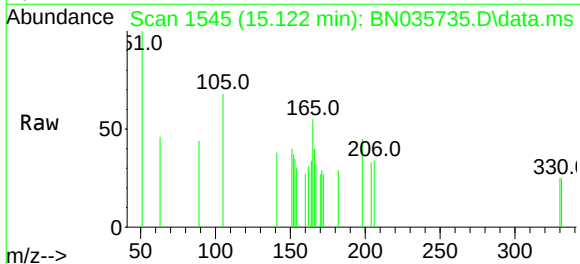
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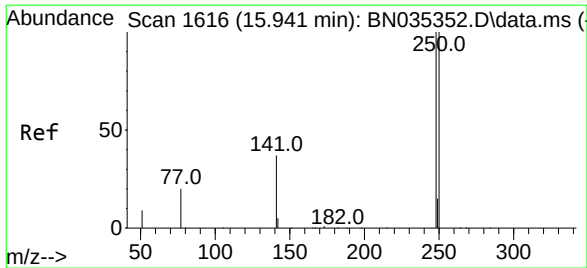
Reviewed By :Yogesh Patel 12/21/2024  
Supervised By :mohammad ahmed 12/24/2024



#20  
4,6-Dinitro-2-methylphenol  
Concen: 0.100 ng  
RT: 15.122 min Scan# 1545  
Delta R.T. -0.000 min  
Lab File: BN035735.D  
Acq: 20 Dec 2024 11:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 198     | 100   |       |       |
| 51      | 220.2 | 46.5  | 69.7  |
| 105     | 150.0 | 45.3  | 67.9  |





#21

4-Bromophenyl-phenylether

Concen: 0.353 ng

RT: 15.904 min Scan# 1616

Delta R.T. -0.013 min

Lab File: BN035735.D

Acq: 20 Dec 2024 11:05

Instrument :

BNA\_N

ClientSampleId :

BPOW6-11-20241212MS

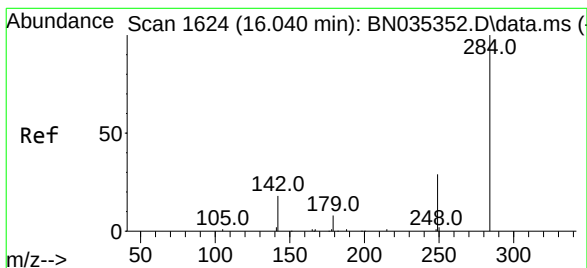
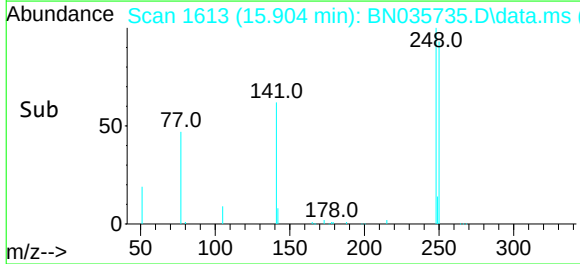
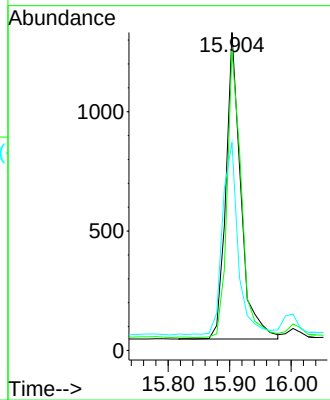
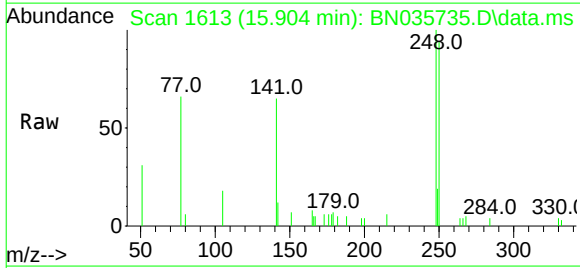
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 248   | Resp: | 2167  |
| Ion      | Ratio | Lower | Upper |
| 248      | 100   |       |       |
| 250      | 94.2  | 80.6  | 120.8 |
| 141      | 65.2  | 31.5  | 47.3  |

Manual Integrations

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Reviewed By :Yogesh Patel 12/21/2024

Supervised By :mohammad ahmed 12/24/2024



#22

Hexachlorobenzene

Concen: 0.339 ng

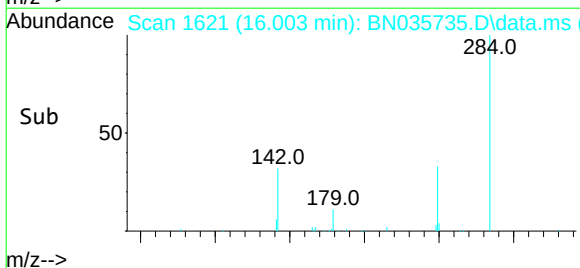
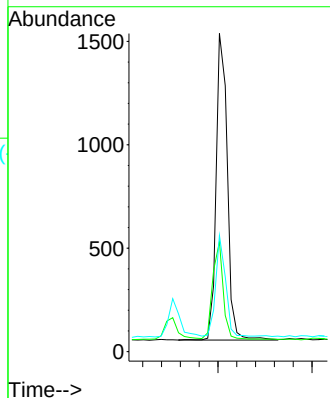
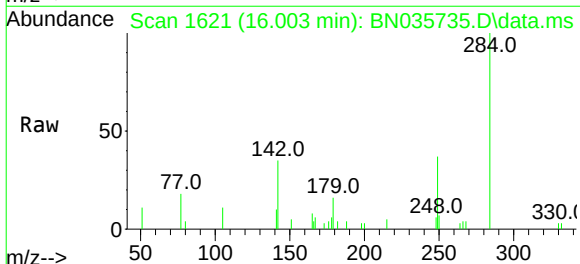
RT: 16.003 min Scan# 1621

Delta R.T. -0.013 min

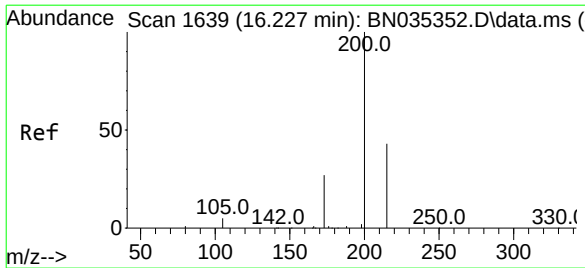
Lab File: BN035735.D

Acq: 20 Dec 2024 11:05

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 284   | Resp: | 2445  |
| Ion      | Ratio | Lower | Upper |
| 284      | 100   |       |       |
| 142      | 30.1  | 26.7  | 40.1  |
| 249      | 29.0  | 24.6  | 36.8  |







#23

Atrazine

Concen: 0.288 ng

RT: 16.202 min Scan# 1637

Delta R.T. -0.000 min

Lab File: BN035735.D

Acq: 20 Dec 2024 11:05

Instrument :

BNA\_N

ClientSampleId :

BPOW6-11-20241212MS

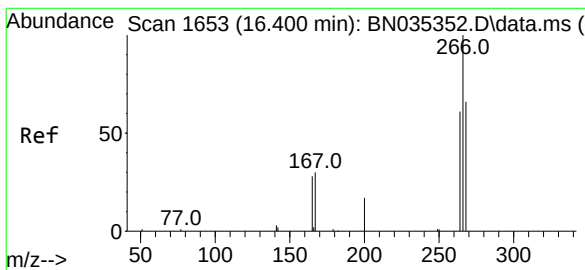
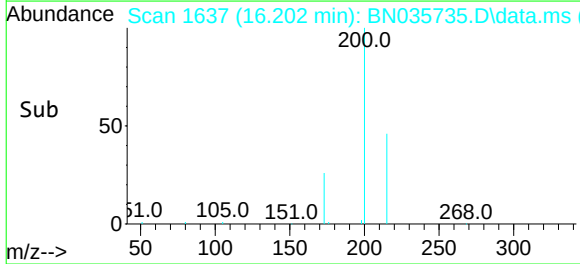
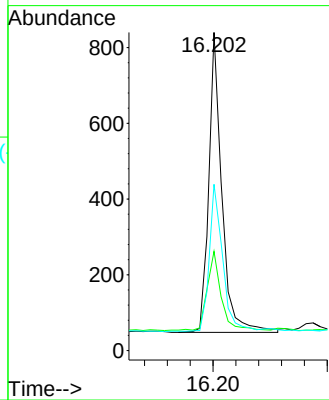
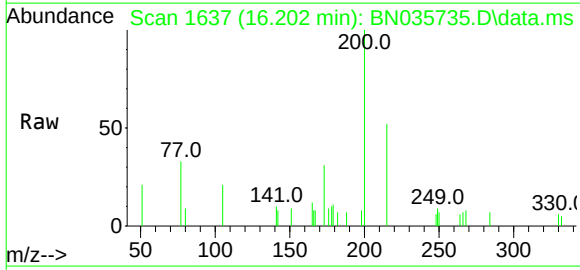
|     |       |       |       |      |
|-----|-------|-------|-------|------|
| Tgt | Ion   | 200   | Resp: | 1259 |
| Ion | Ratio | Lower | Upper |      |
| 200 | 100   |       |       |      |
| 173 | 31.2  | 24.1  | 36.1  |      |
| 215 | 52.3  | 36.9  | 55.3  |      |

Manual Integrations

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Reviewed By :Yogesh Patel 12/21/2024

Supervised By :mohammad ahmed 12/24/2024



#24

Pentachlorophenol

Concen: 0.087 ng

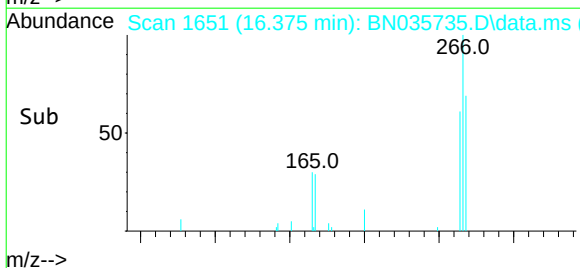
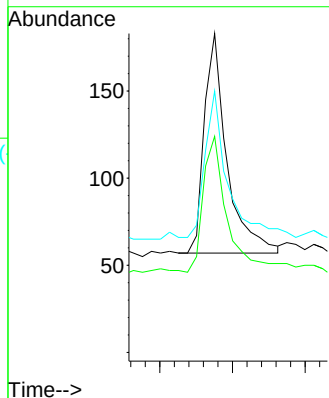
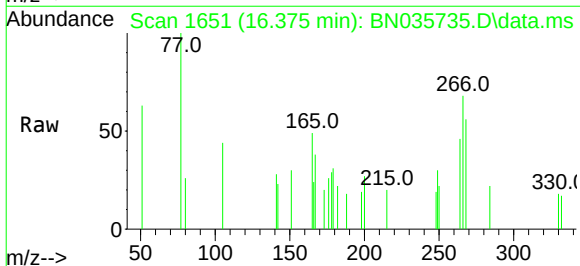
RT: 16.375 min Scan# 1651

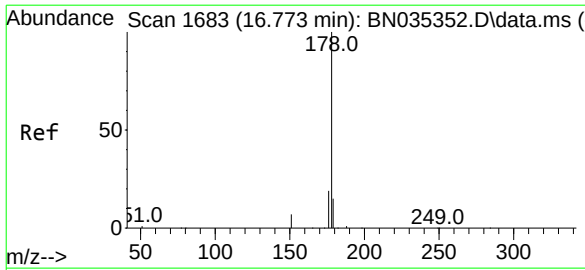
Delta R.T. -0.000 min

Lab File: BN035735.D

Acq: 20 Dec 2024 11:05

|     |       |       |       |     |
|-----|-------|-------|-------|-----|
| Tgt | Ion   | 266   | Resp: | 273 |
| Ion | Ratio | Lower | Upper |     |
| 266 | 100   |       |       |     |
| 264 | 65.9  | 42.3  | 63.5# |     |
| 268 | 70.7  | 43.3  | 64.9# |     |





#25

Phenanthrene

Concen: 0.356 ng

RT: 16.735 min Scan# 16

Delta R.T. -0.013 min

Lab File: BN035735.D

Acq: 20 Dec 2024 11:05

Instrument :

BNA\_N

ClientSampleId :

BPOW6-11-20241212MS

Tgt Ion:178 Resp: 10260

Ion Ratio Lower Upper

178 100

176 19.3 15.4 23.2

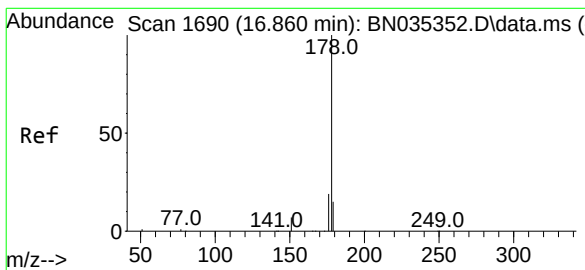
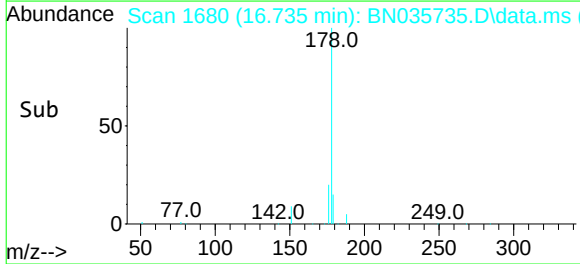
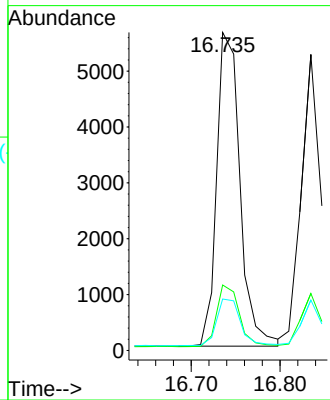
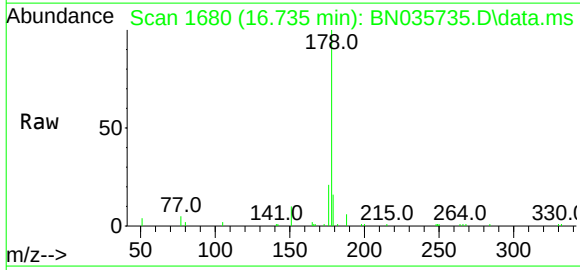
179 15.2 12.3 18.5

Manual Integrations

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Reviewed By :Yogesh Patel 12/21/2024

Supervised By :mohammad ahmed 12/24/2024



#26

Anthracene

Concen: 0.342 ng

RT: 16.835 min Scan# 1688

Delta R.T. -0.000 min

Lab File: BN035735.D

Acq: 20 Dec 2024 11:05

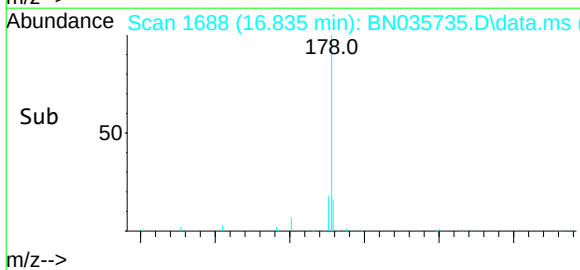
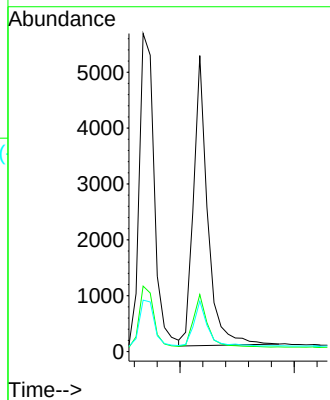
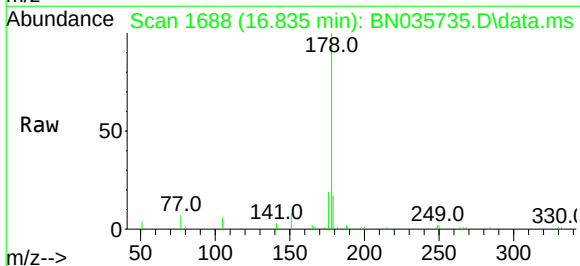
Tgt Ion:178 Resp: 8925

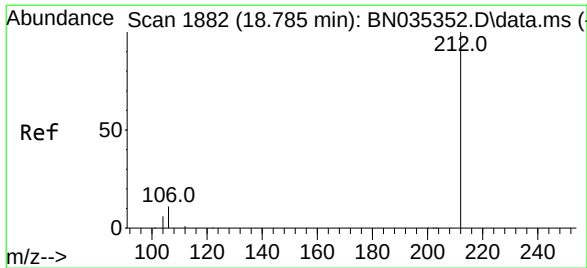
Ion Ratio Lower Upper

178 100

176 18.5 15.0 22.6

179 15.3 12.6 18.8





#27

Fluoranthene-d10

Concen: 0.380 ng

RT: 18.757 min Scan# 18

Delta R.T. -0.005 min

Lab File: BN035735.D

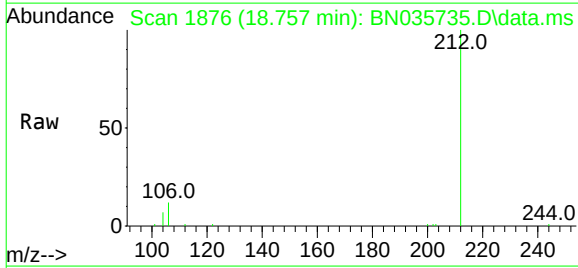
Acq: 20 Dec 2024 11:05

Instrument :

BNA\_N

ClientSampleId :

BPOW6-11-20241212MS



Tgt Ion:212 Resp: 11313

Ion Ratio Lower Upper

212 100

106 11.3 9.2 13.8

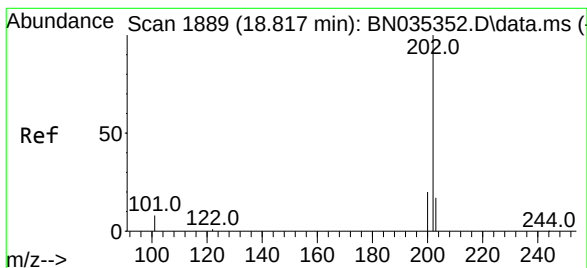
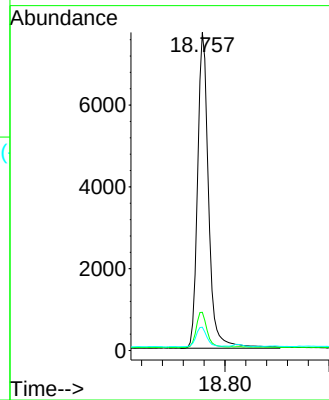
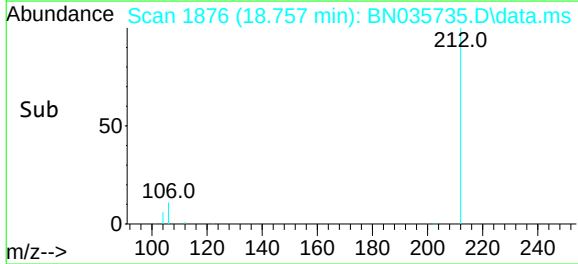
104 6.1 5.3 7.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/21/2024

Supervised By :mohammad ahmed 12/24/2024



#28

Fluoranthene

Concen: 0.332 ng

RT: 18.789 min Scan# 1883

Delta R.T. -0.000 min

Lab File: BN035735.D

Acq: 20 Dec 2024 11:05

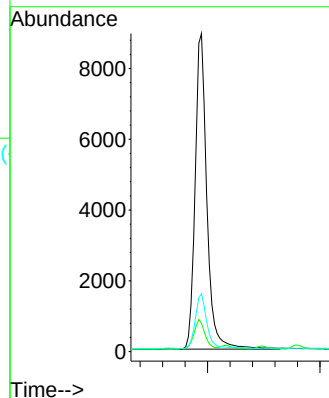
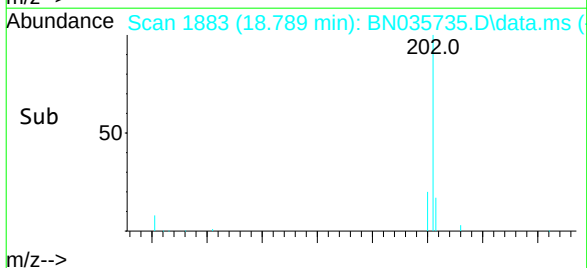
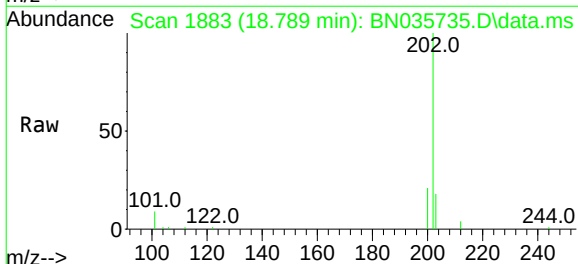
Tgt Ion:202 Resp: 12930

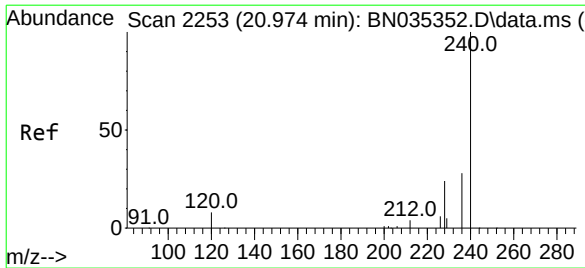
Ion Ratio Lower Upper

202 100

101 8.8 7.4 11.0

203 16.8 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.947 min Scan# 2253

Delta R.T. -0.009 min

Lab File: BN035735.D

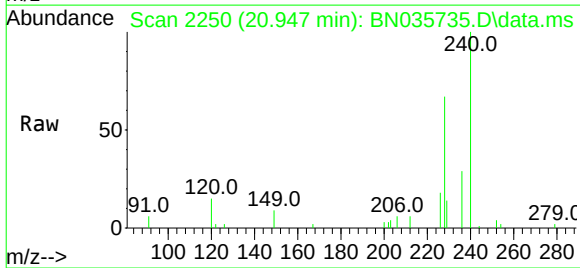
Acq: 20 Dec 2024 11:05

Instrument :

BNA\_N

ClientSampleId :

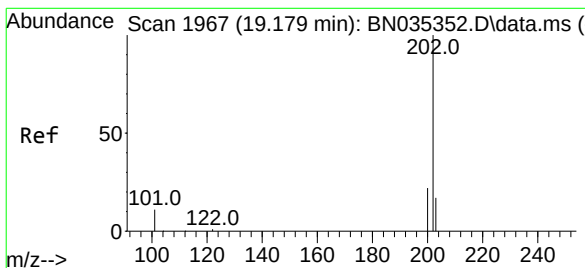
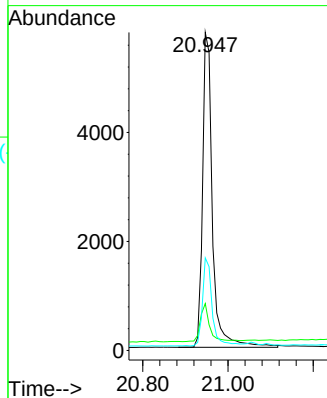
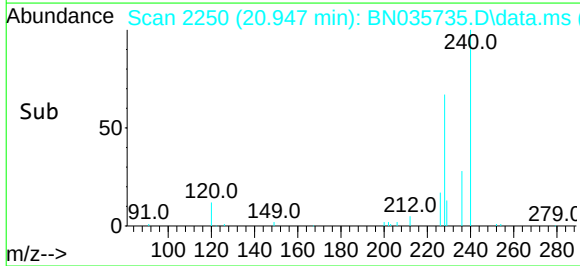
BPOW6-11-20241212MS



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 240   | Resp: | 9278  |
| Ion      | Ratio | Lower | Upper |
| 240      | 100   |       |       |
| 120      | 14.8  | 7.9   | 11.9  |
| 236      | 29.1  | 22.9  | 34.3  |

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 12/21/2024  
Supervised By :mohammad ahmed 12/24/2024



#30

Pyrene

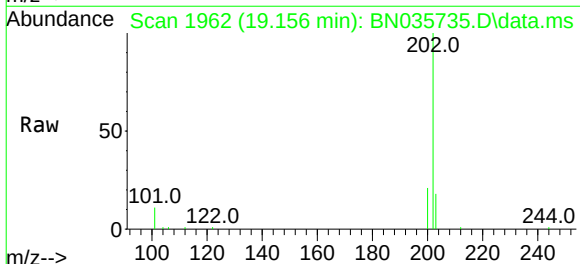
Concen: 0.394 ng

RT: 19.156 min Scan# 1962

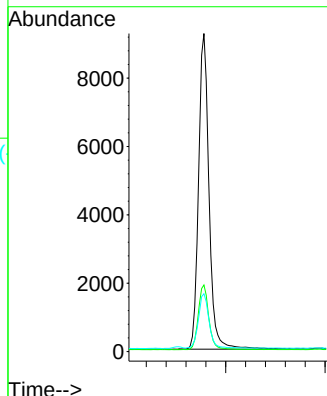
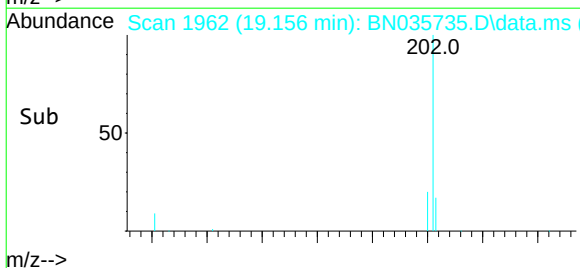
Delta R.T. -0.005 min

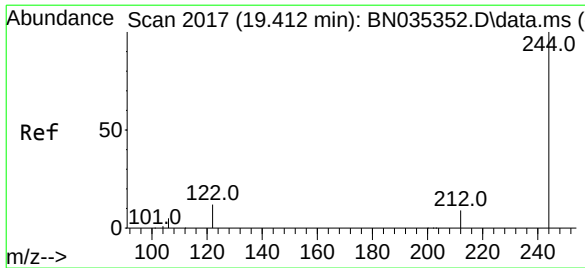
Lab File: BN035735.D

Acq: 20 Dec 2024 11:05



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 202   | Resp: | 13495 |
| Ion      | Ratio | Lower | Upper |
| 202      | 100   |       |       |
| 200      | 20.6  | 17.0  | 25.4  |
| 203      | 17.6  | 14.3  | 21.5  |





#31

Terphenyl-d14

Concen: 0.488 ng

RT: 19.388 min Scan# 20

Delta R.T. -0.000 min

Lab File: BN035735.D

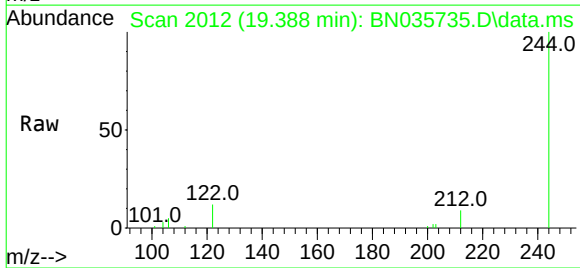
Acq: 20 Dec 2024 11:05

Instrument :

BNA\_N

ClientSampleId :

BPOW6-11-20241212MS

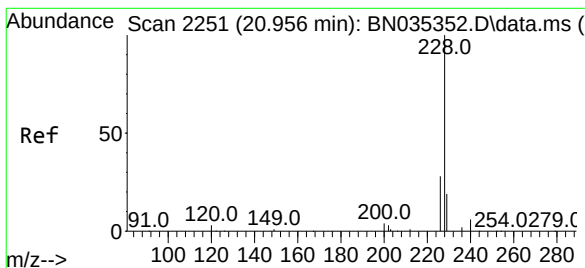
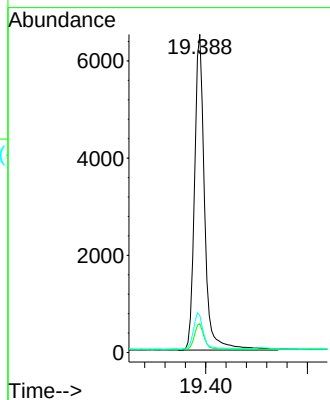
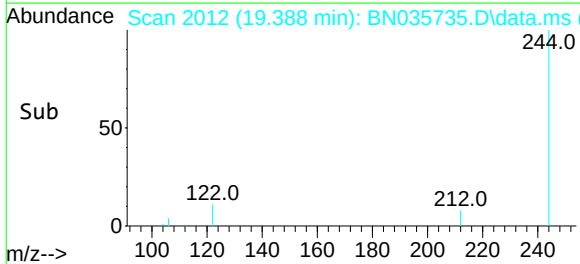


| Tgt Ion:  | 244   | Resp: | 8932 |
|-----------|-------|-------|------|
| Ion Ratio | Lower | Upper |      |
| 244       | 100   |       |      |
| 212       | 9.0   | 8.1   | 12.1 |
| 122       | 11.7  | 10.3  | 15.5 |

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 12/21/2024

Supervised By :mohammad ahmed 12/24/2024



#32

Benzo(a)anthracene

Concen: 0.348 ng

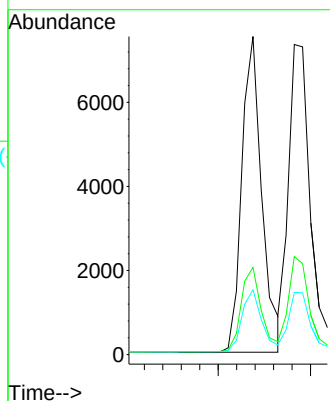
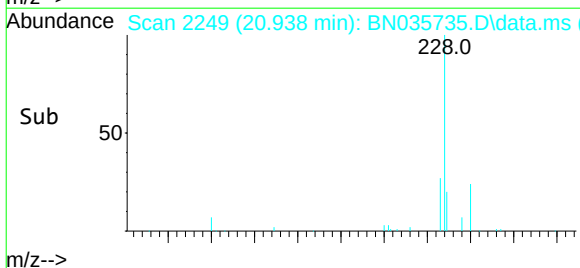
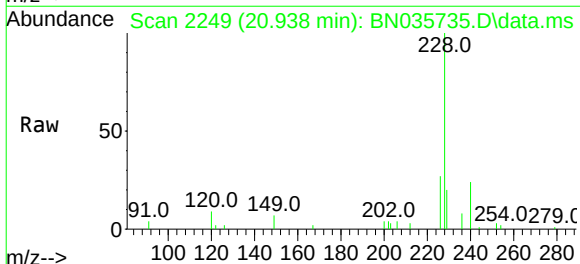
RT: 20.938 min Scan# 2249

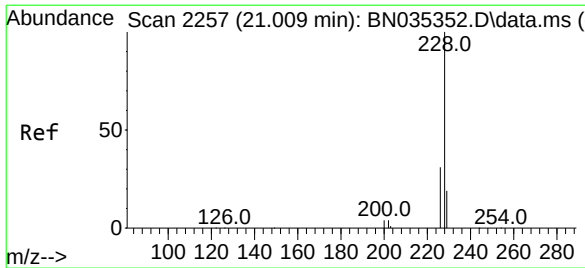
Delta R.T. -0.000 min

Lab File: BN035735.D

Acq: 20 Dec 2024 11:05

| Tgt Ion:  | 228   | Resp: | 11302 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 27.4  | 22.5  | 33.7  |
| 229       | 20.4  | 15.8  | 23.8  |





#33

Chrysene

Concen: 0.378 ng

RT: 20.982 min Scan# 2254

Delta R.T. -0.009 min

Lab File: BN035735.D

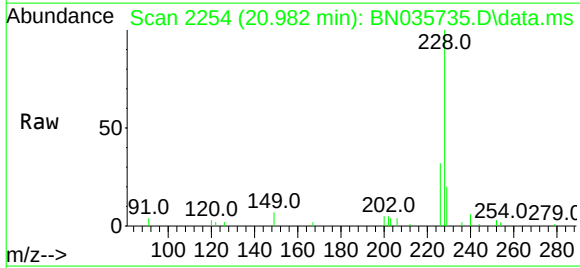
Acq: 20 Dec 2024 11:05

Instrument :

BNA\_N

ClientSampleId :

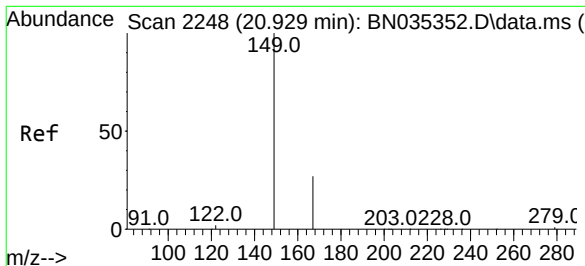
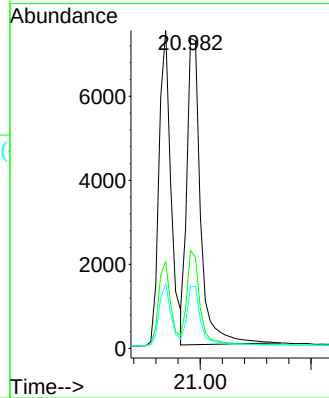
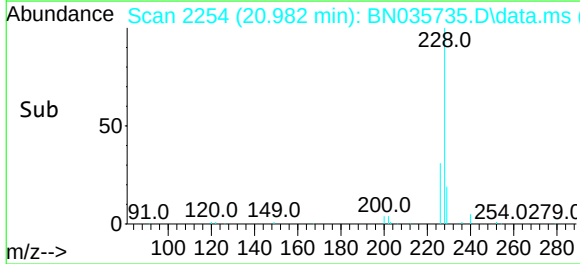
BPOW6-11-20241212MS



| Tgt | Ion  | Ratio | Lower | Upper |
|-----|------|-------|-------|-------|
| 228 | 100  |       |       |       |
| 226 | 31.6 | 24.6  | 37.0  |       |
| 229 | 20.1 | 15.9  | 23.9  |       |

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 12/21/2024  
Supervised By :mohammad ahmed 12/24/2024



#34

Bis(2-ethylhexyl)phthalate

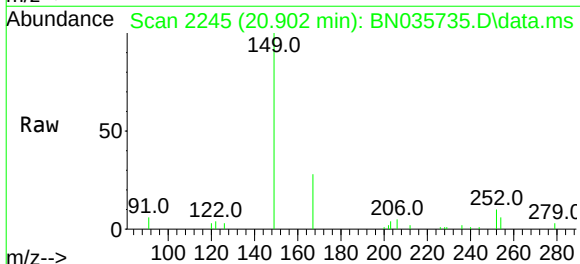
Concen: 0.477 ng

RT: 20.902 min Scan# 2245

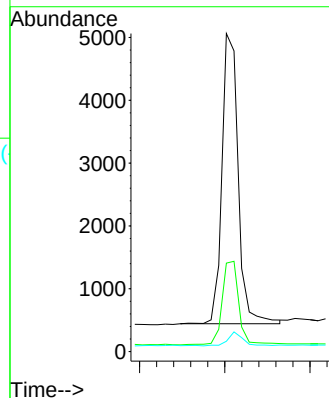
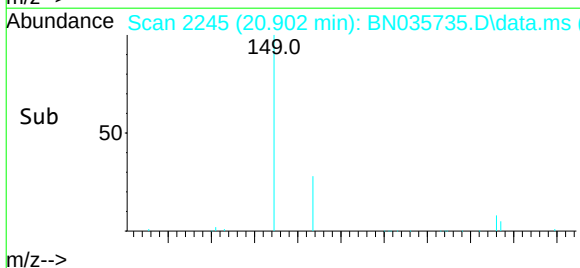
Delta R.T. -0.009 min

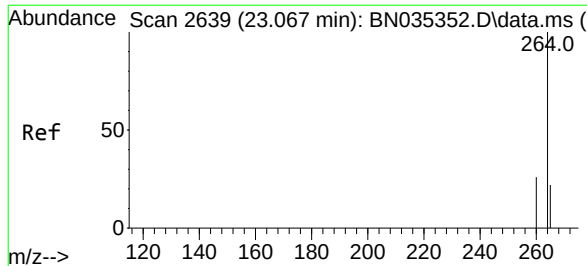
Lab File: BN035735.D

Acq: 20 Dec 2024 11:05



| Tgt | Ion  | Ratio | Lower | Upper |
|-----|------|-------|-------|-------|
| 149 | 100  |       |       |       |
| 167 | 29.6 | 22.2  | 33.4  |       |
| 279 | 4.4  | 2.7   | 4.1   |       |





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.038 min Scan# 2639

Delta R.T. -0.003 min

Lab File: BN035735.D

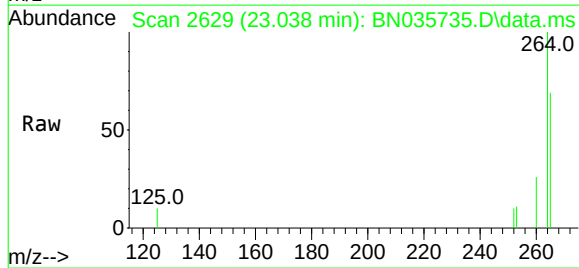
Acq: 20 Dec 2024 11:05

Instrument :

BNA\_N

ClientSampleId :

BPOW6-11-20241212MS



Tgt Ion: 264 Resp: 9467

Ion Ratio Lower Upper

264 100

260 26.2 21.4 32.2

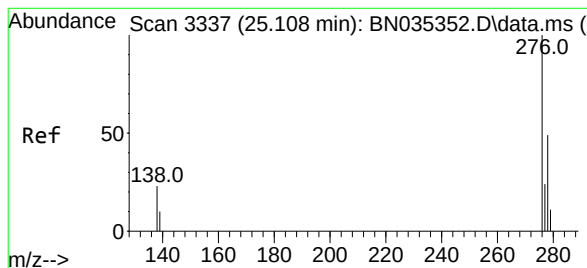
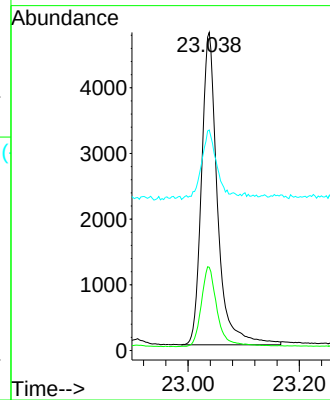
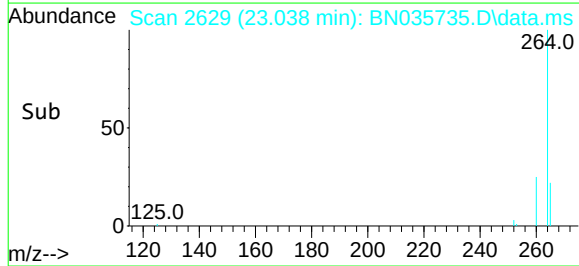
265 69.3 40.2 60.4#

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/21/2024

Supervised By :mohammad ahmed 12/24/2024



#36

Indeno(1,2,3-cd)pyrene

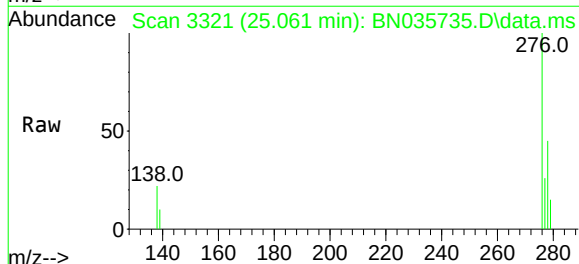
Concen: 0.335 ng

RT: 25.061 min Scan# 3321

Delta R.T. -0.006 min

Lab File: BN035735.D

Acq: 20 Dec 2024 11:05



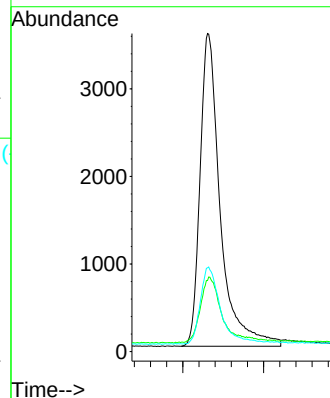
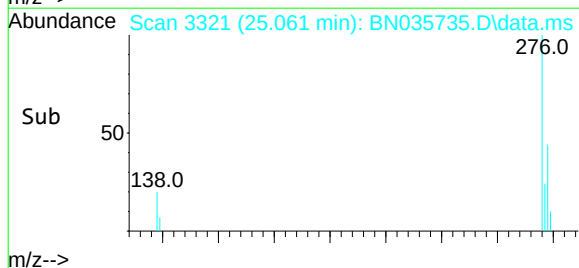
Tgt Ion: 276 Resp: 12412

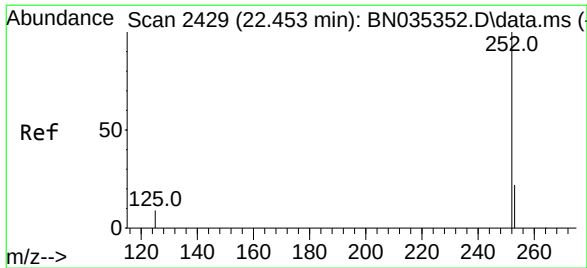
Ion Ratio Lower Upper

276 100

138 21.0 19.4 29.0

277 24.4 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.536 ng

RT: 22.427 min Scan# 2429

Delta R.T. -0.003 min

Lab File: BN035735.D

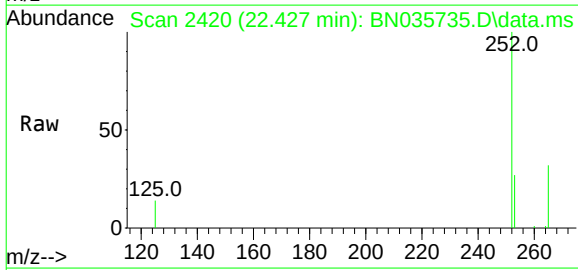
Acq: 20 Dec 2024 11:05

Instrument :

BNA\_N

ClientSampleId :

BPOW6-11-20241212MS



Tgt Ion:252 Resp: 18573

Ion Ratio Lower Upper

252 100

253 27.2 19.6 29.4

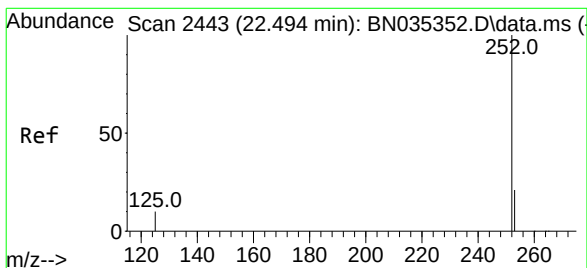
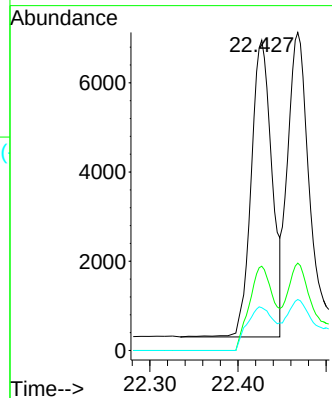
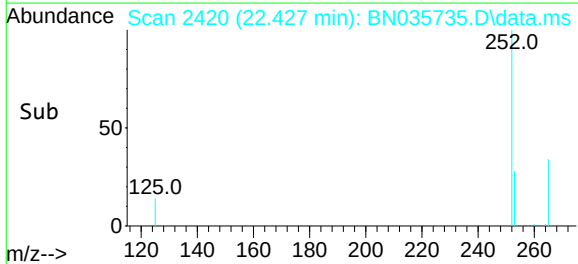
125 13.8 9.6 14.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/21/2024

Supervised By :mohammad ahmed 12/24/2024



#38

Benzo(k)fluoranthene

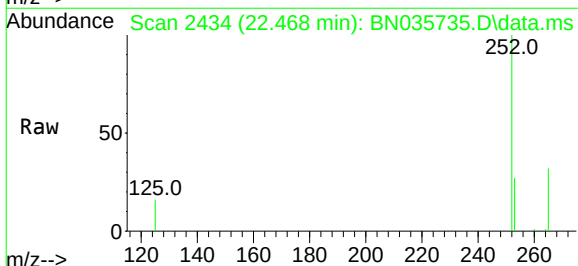
Concen: 0.378 ng m

RT: 22.468 min Scan# 2434

Delta R.T. -0.003 min

Lab File: BN035735.D

Acq: 20 Dec 2024 11:05



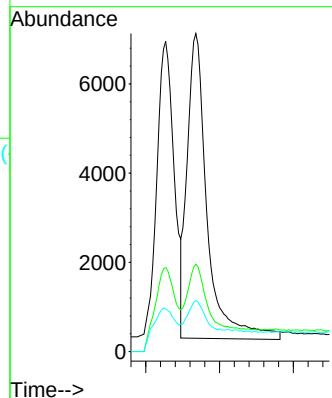
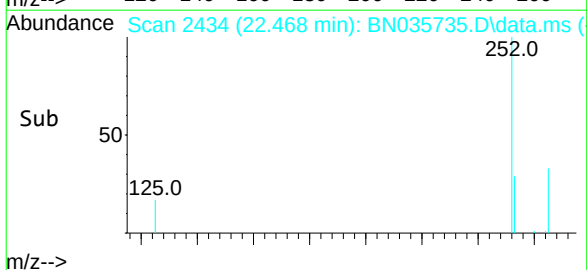
Tgt Ion:252 Resp: 12887

Ion Ratio Lower Upper

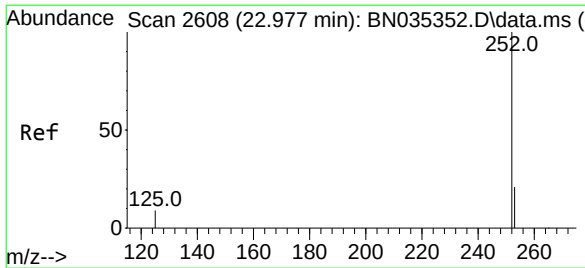
252 100

253 27.5 19.5 29.3

125 16.0 10.2 15.4#







#39

Benzo(a)pyrene

Concen: 0.326 ng

RT: 22.950 min Scan# 25

Delta R.T. -0.000 min

Lab File: BN035735.D

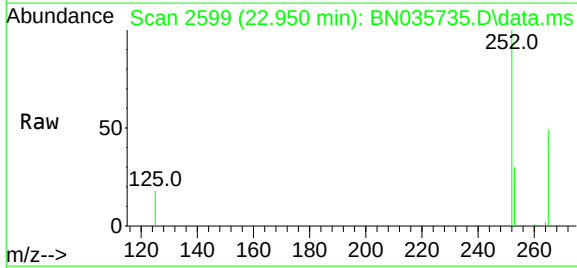
Acq: 20 Dec 2024 11:05

Instrument :

BNA\_N

ClientSampleId :

BPOW6-11-20241212MS



Tgt Ion:252 Resp: 9310

Ion Ratio Lower Upper

252 100

253 30.1 20.2 30.4

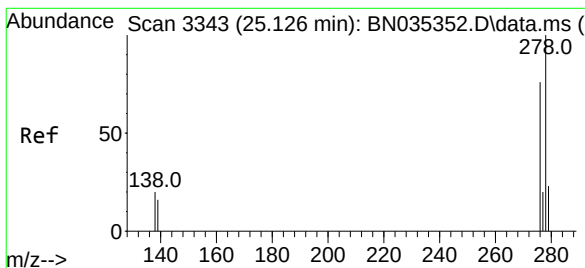
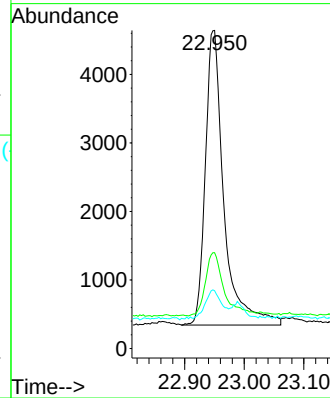
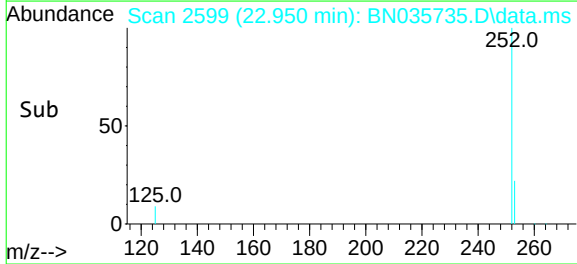
125 18.2 10.9 16.3#

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/21/2024

Supervised By :mohammad ahmed 12/24/2024



#40

Dibenzo(a,h)anthracene

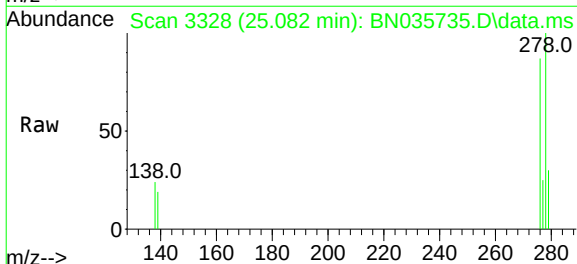
Concen: 0.331 ng

RT: 25.082 min Scan# 3328

Delta R.T. -0.000 min

Lab File: BN035735.D

Acq: 20 Dec 2024 11:05



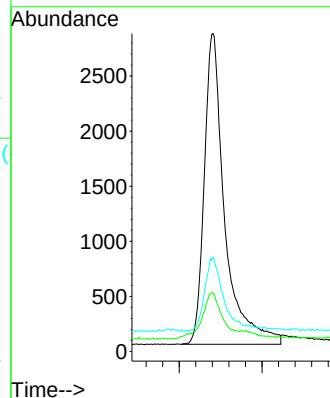
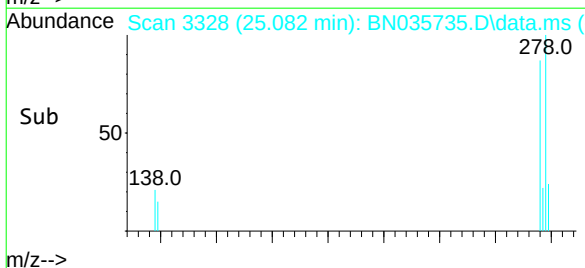
Tgt Ion:278 Resp: 9663

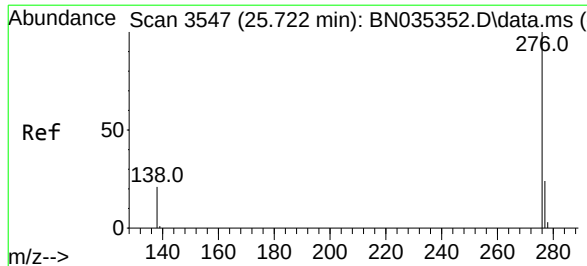
Ion Ratio Lower Upper

278 100

139 18.5 14.2 21.4

279 29.6 20.5 30.7





#41

Benzo(g,h,i)perylene

Concen: 0.305 ng

RT: 25.675 min Scan# 35

Delta R.T. -0.003 min

Lab File: BN035735.D

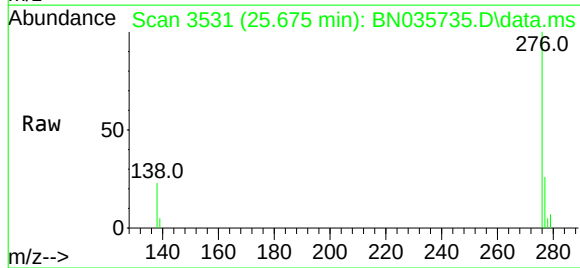
Acq: 20 Dec 2024 11:05

Instrument :

BNA\_N

ClientSampleId :

BPOW6-11-20241212MS



Tgt Ion: 276 Resp: 9301

Ion Ratio Lower Upper

276 100

277 25.7 19.9 29.9

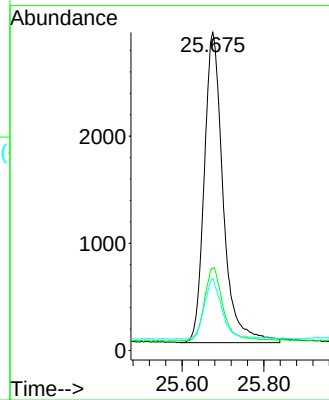
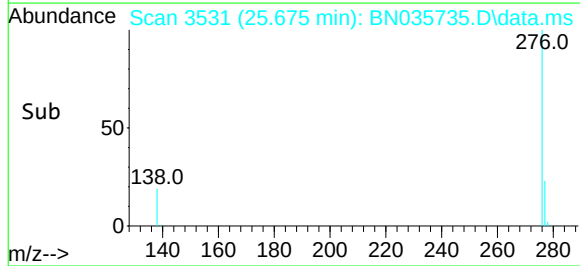
138 22.7 17.8 26.8

Manual Integrations

APPROVED

Reviewed By : Yogesh Patel 12/21/2024

Supervised By : mohammad ahmed 12/24/2024



## Report of Analysis

|                    |                       |                 |                |
|--------------------|-----------------------|-----------------|----------------|
| Client:            | Tetra Tech NUS, Inc.  | Date Collected: | 12/12/24       |
| Project:           | CTO WE13              | Date Received:  | 12/13/24       |
| Client Sample ID:  | BPOW6-11-20241212MSD  | SDG No.:        | P5284          |
| Lab Sample ID:     | P5280-05MSD           | Matrix:         | Water          |
| Analytical Method: | SW8270ESIM            | % Solid:        | 0              |
| Sample Wt/Vol:     | 990      Units:    mL | Final Vol:      | 1000      uL   |
| Soil Aliquot Vol:  | uL                    | Test:           | SVOC-SIMGroup1 |
| Extraction Type :  | Decanted :    N       | Level :         | LOW            |
| Injection Volume : | GPC Factor :    1.0   | GPC Cleanup :   | N      PH :    |
| Prep Method :      |                       |                 |                |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BN035736.D        | 1         | 12/16/24 11:30 | 12/20/24 11:41 | PB165667      |

| CAS Number                | Parameter               | Conc. | Qualifier | MDL      | LOD  | LOQ / CRQL | Units    |
|---------------------------|-------------------------|-------|-----------|----------|------|------------|----------|
| <b>TARGETS</b>            |                         |       |           |          |      |            |          |
| 123-91-1                  | 1,4-Dioxane             | 0.55  |           | 0.070    | 0.20 | 0.20       | ug/L     |
| <b>SURROGATES</b>         |                         |       |           |          |      |            |          |
| 7297-45-2                 | 2-Methylnaphthalene-d10 | 0.32  |           | 30 - 150 |      | 79%        | SPK: 0.4 |
| 93951-69-0                | Fluoranthene-d10        | 0.39  |           | 30 - 150 |      | 97%        | SPK: 0.4 |
| 4165-60-0                 | Nitrobenzene-d5         | 0.36  |           | 55 - 111 |      | 89%        | SPK: 0.4 |
| 321-60-8                  | 2-Fluorobiphenyl        | 0.28  |           | 53 - 106 |      | 69%        | SPK: 0.4 |
| 1718-51-0                 | Terphenyl-d14           | 0.49  |           | 58 - 132 |      | 122%       | SPK: 0.4 |
| <b>INTERNAL STANDARDS</b> |                         |       |           |          |      |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4  | 3360  | 7.272     |          |      |            |          |
| 1146-65-2                 | Naphthalene-d8          | 9240  | 10.009    |          |      |            |          |
| 15067-26-2                | Acenaphthene-d10        | 5770  | 13.924    |          |      |            |          |
| 1517-22-2                 | Phenanthrene-d10        | 12100 | 16.698    |          |      |            |          |
| 1719-03-5                 | Chrysene-d12            | 11000 | 20.947    |          |      |            |          |
| 1520-96-3                 | Perylene-d12            | 11400 | 23.038    |          |      |            |          |

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\BN121924\  
 Data File : BN035736.D  
 Acq On : 20 Dec 2024 11:41  
 Operator : RC/JU  
 Sample : P5280-05MSD  
 Misc :  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 BPOW6-11-20241212MSD

### Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/21/2024  
 Supervised By :mohammad ahmed 12/24/2024

Quant Time: Dec 20 12:27:13 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Dec 19 23:06:19 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.272  | 152  | 3357     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.009 | 136  | 9243     | 0.400 | ng    | -0.01    |
| 13) Acenaphthene-d10          | 13.924 | 164  | 5773     | 0.400 | ng    | -0.01    |
| 19) Phenanthrene-d10          | 16.698 | 188  | 12117    | 0.400 | ng    | # 0.00   |
| 29) Chrysene-d12              | 20.947 | 240  | 11029    | 0.400 | ng    | # 0.00   |
| 35) Perylene-d12              | 23.038 | 264  | 11370    | 0.400 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 4.939  | 112  | 942      | 0.112 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.484  | 99   | 701      | 0.069 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.408  | 82   | 2003m    | 0.355 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.615 | 152  | 4592     | 0.317 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.453 | 330  | 754      | 0.184 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.538 | 172  | 6026     | 0.276 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 18.757 | 212  | 13288    | 0.387 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.388 | 244  | 10572    | 0.486 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| Target Compounds              |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 2.982  | 88   | 1749     | 0.545 | ng    | # 90     |
| 3) n-Nitrosodimethylamine     | 3.278  | 42   | 394      | 0.147 | ng    | # 89     |
| 6) bis(2-Chloroethyl)ether    | 6.723  | 93   | 2407     | 0.284 | ng    | 99       |
| 9) Naphthalene                | 10.063 | 128  | 6583     | 0.270 | ng    | 99       |
| 10) Hexachlorobutadiene       | 10.351 | 225  | 924      | 0.164 | ng    | # 99     |
| 12) 2-Methylnaphthalene       | 11.692 | 142  | 4392     | 0.252 | ng    | 98       |
| 16) Acenaphthylene            | 13.636 | 152  | 7346     | 0.303 | ng    | 99       |
| 17) Acenaphthene              | 13.989 | 154  | 4688     | 0.291 | ng    | 98       |
| 18) Fluorene                  | 14.993 | 166  | 6437     | 0.279 | ng    | 99       |
| 20) 4,6-Dinitro-2-methylph... | 15.122 | 198  | 141      | 0.118 | ng    | # 1      |
| 21) 4-Bromophenyl-phenylether | 15.904 | 248  | 2466     | 0.348 | ng    | # 82     |
| 22) Hexachlorobenzene         | 16.003 | 284  | 2768     | 0.333 | ng    | 95       |
| 23) Atrazine                  | 16.202 | 200  | 1444     | 0.286 | ng    | 96       |
| 24) Pentachlorophenol         | 16.375 | 266  | 361      | 0.100 | ng    | 92       |
| 25) Phenanthrene              | 16.735 | 178  | 11782    | 0.354 | ng    | 99       |
| 26) Anthracene                | 16.835 | 178  | 10189    | 0.338 | ng    | 99       |
| 28) Fluoranthene              | 18.789 | 202  | 15192    | 0.339 | ng    | 99       |
| 30) Pyrene                    | 19.156 | 202  | 15901    | 0.391 | ng    | 99       |
| 32) Benzo(a)anthracene        | 20.938 | 228  | 13511    | 0.350 | ng    | 98       |
| 33) Chrysene                  | 20.991 | 228  | 15009    | 0.377 | ng    | 98       |
| 34) Bis(2-ethylhexyl)phtha... | 20.911 | 149  | 7279     | 0.478 | ng    | # 99     |
| 36) Indeno(1,2,3-cd)pyrene    | 25.061 | 276  | 14877    | 0.335 | ng    | 98       |
| 37) Benzo(b)fluoranthene      | 22.427 | 252  | 21467    | 0.516 | ng    | 97       |
| 38) Benzo(k)fluoranthene      | 22.468 | 252  | 15196m   | 0.371 | ng    |          |
| 39) Benzo(a)pyrene            | 22.950 | 252  | 11175    | 0.326 | ng    | 93       |
| 40) Dibenzo(a,h)anthracene    | 25.079 | 278  | 11466    | 0.327 | ng    | 97       |
| 41) Benzo(g,h,i)perylene      | 25.675 | 276  | 11017    | 0.301 | ng    | 99       |
| -----                         |        |      |          |       |       |          |

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

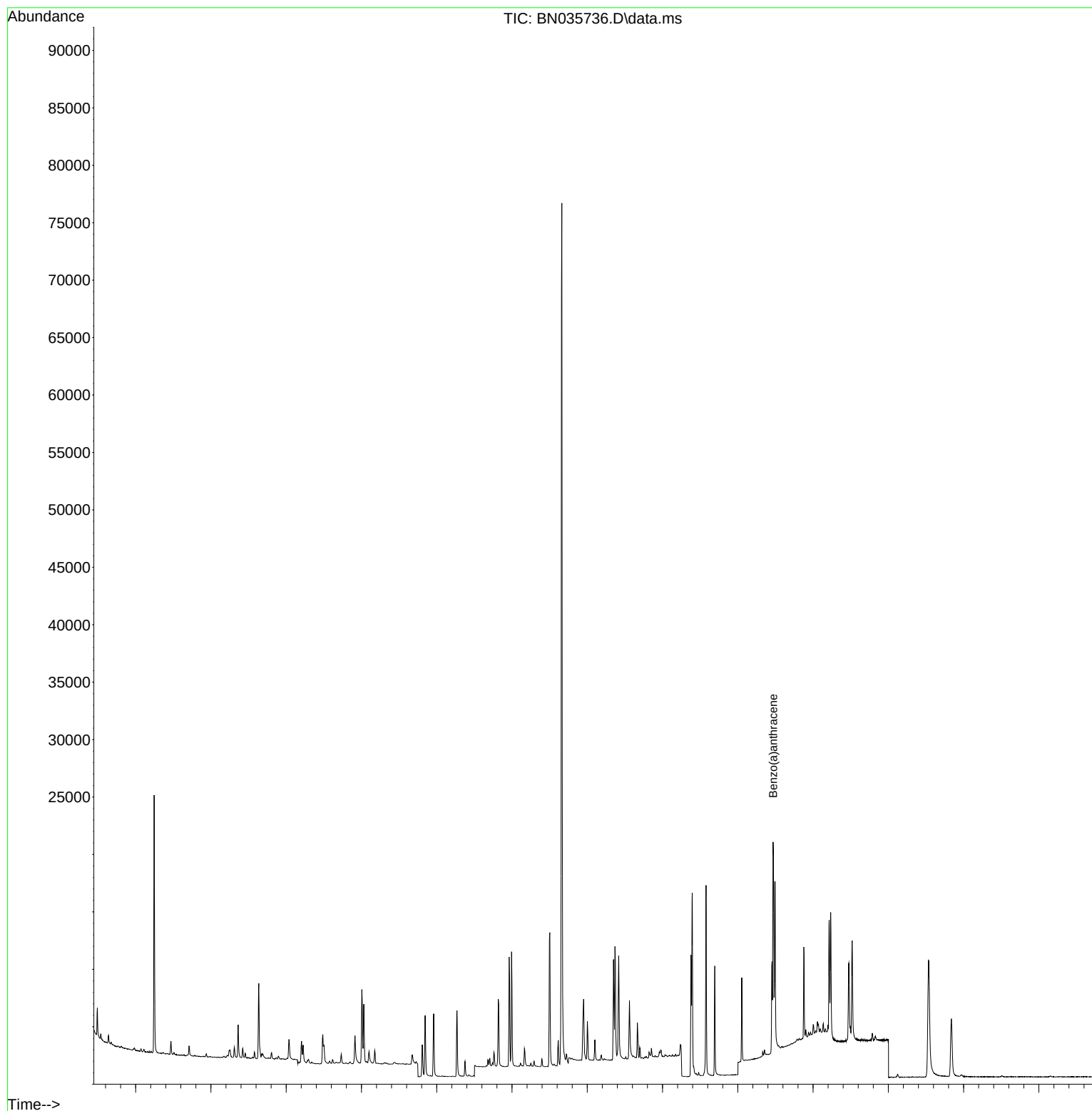
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Data File : BN035736.D  
Acq On : 20 Dec 2024 11:41  
Operator : RC/JU  
Sample : P5280-05MSD  
Misc :  
ALS Vial : 27 Sample Multiplier: 1

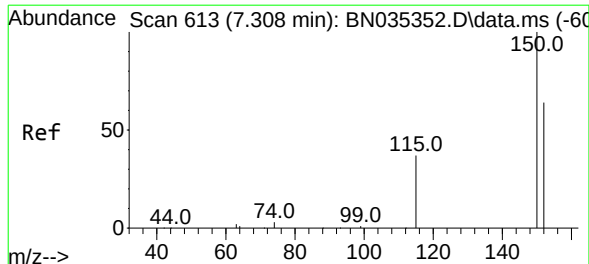
Instrument :  
BNA\_N  
ClientSampleId :  
BPOW6-11-20241212MSD

Manual Integrations  
**APPROVED**

Reviewed By :Yogesh Patel 12/21/2024  
Supervised By :mohammad ahmed 12/24/2024

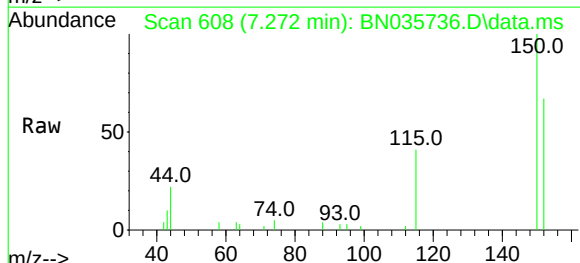
Quant Time: Dec 20 12:27:13 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Dec 19 23:06:19 2024  
Response via : Initial Calibration





#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.272 min Scan# 60  
Delta R.T. -0.000 min  
Lab File: BN035736.D  
Acq: 20 Dec 2024 11:41

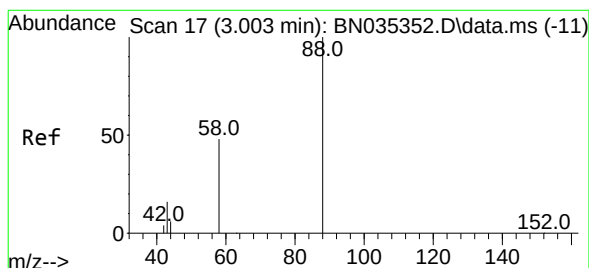
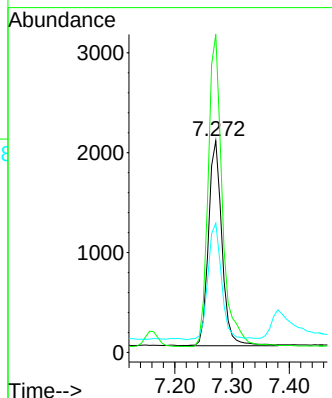
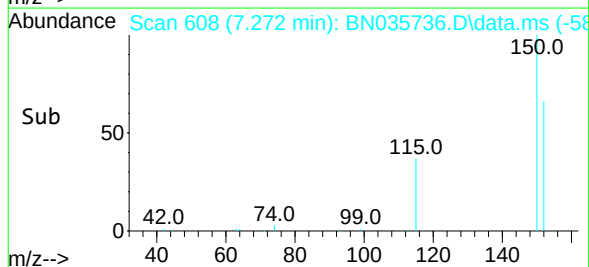
Instrument :  
BNA\_N  
ClientSampleId :  
BPOW6-11-20241212MSD



Tgt Ion: 152 Resp: 3357  
Ion Ratio Lower Upper  
152 100  
150 150.3 124.0 186.0  
115 61.1 49.6 74.4

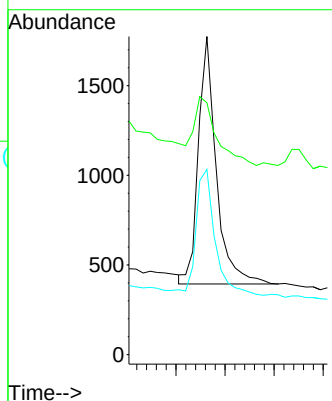
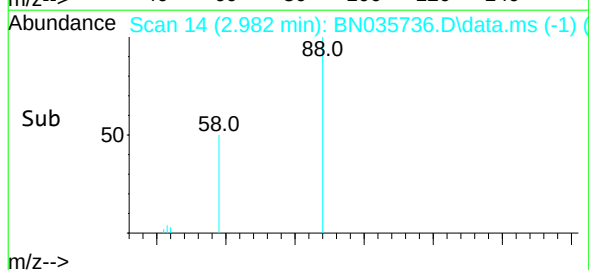
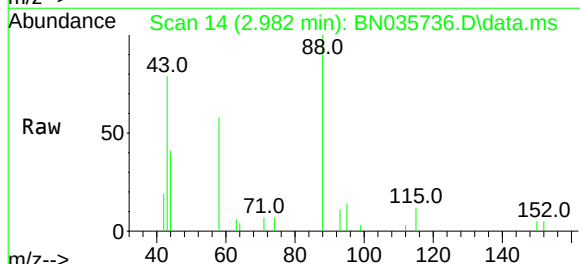
Manual Integrations  
APPROVED

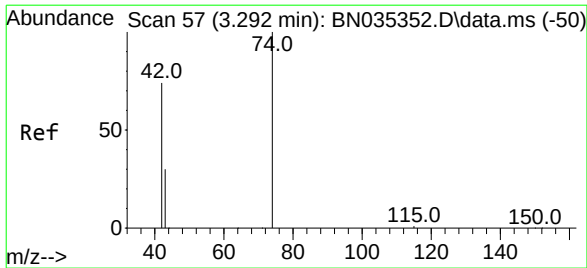
Reviewed By :Yogesh Patel 12/21/2024  
Supervised By :mohammad ahmed 12/24/2024



#2  
1,4-Dioxane  
Concen: 0.545 ng  
RT: 2.982 min Scan# 14  
Delta R.T. -0.000 min  
Lab File: BN035736.D  
Acq: 20 Dec 2024 11:41

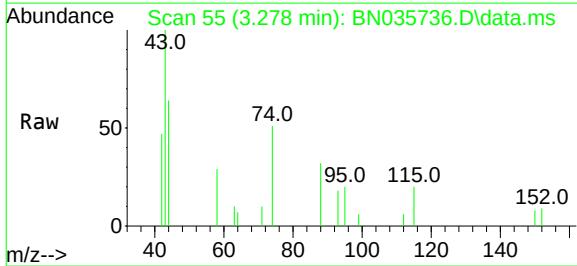
Tgt Ion: 88 Resp: 1749  
Ion Ratio Lower Upper  
88 100  
43 34.9 17.2 25.8#  
58 53.4 44.5 66.7





#3  
n-Nitrosodimethylamine  
Concen: 0.147 ng  
RT: 3.278 min Scan# 55  
Delta R.T. -0.000 min  
Lab File: BN035736.D  
Acq: 20 Dec 2024 11:41

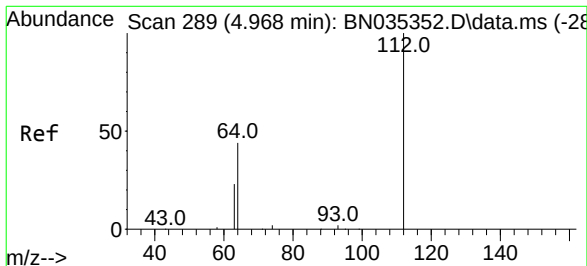
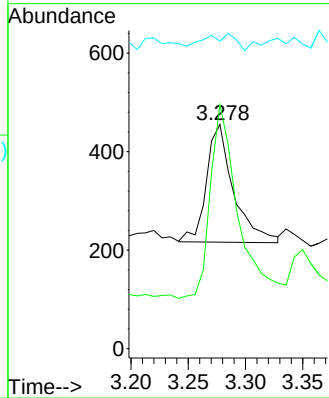
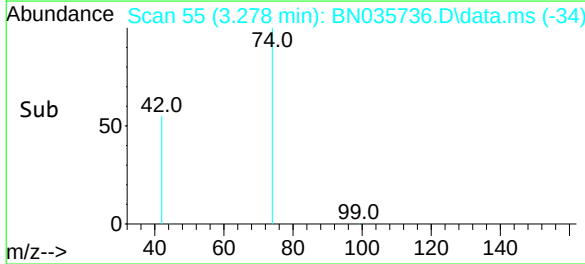
Instrument :  
BNA\_N  
ClientSampleId :  
BPOW6-11-20241212MSD



Tgt Ion: 42 Resp: 394  
Ion Ratio Lower Upper  
42 100  
74 169.8 124.9 187.3  
44 16.0 2.2 3.4

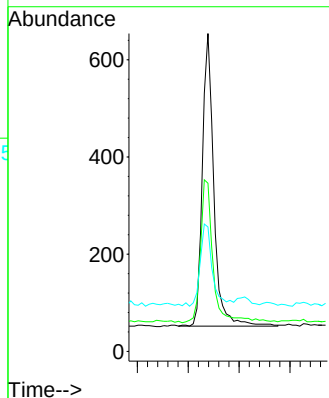
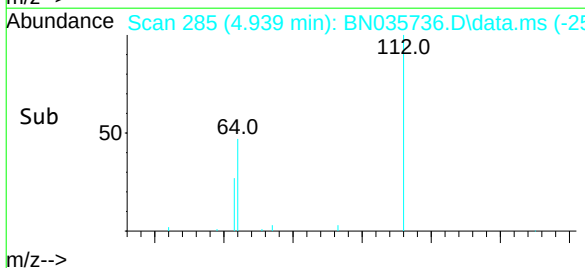
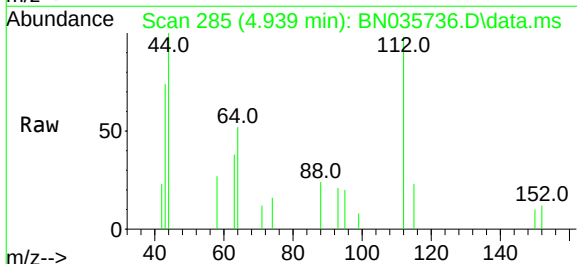
Manual Integrations  
APPROVED

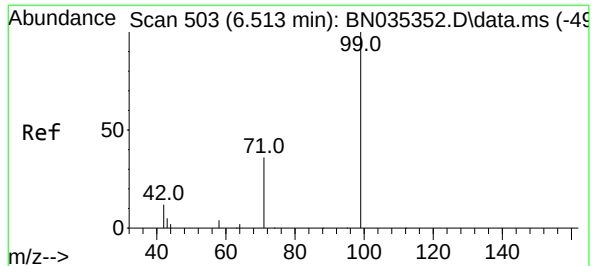
Reviewed By :Yogesh Patel 12/21/2024  
Supervised By :mohammad ahmed 12/24/2024



#4  
2-Fluorophenol  
Concen: 0.112 ng  
RT: 4.939 min Scan# 285  
Delta R.T. -0.000 min  
Lab File: BN035736.D  
Acq: 20 Dec 2024 11:41

Tgt Ion:112 Resp: 942  
Ion Ratio Lower Upper  
112 100  
64 54.1 39.8 59.8  
63 29.4 21.0 31.6





#5

Phenol-d6

Concen: 0.069 ng

RT: 6.484 min Scan# 49

Delta R.T. -0.007 min

Lab File: BN035736.D

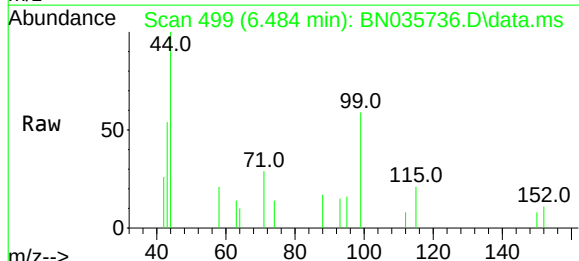
Acq: 20 Dec 2024 11:41

Instrument :

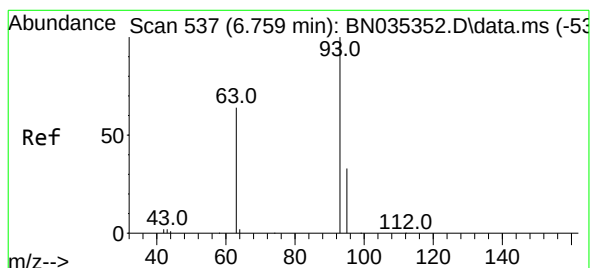
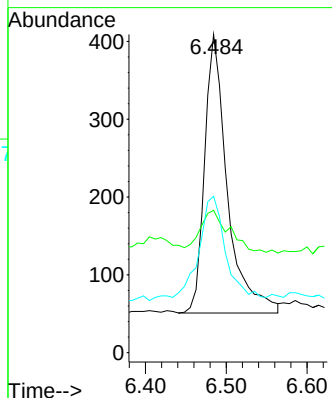
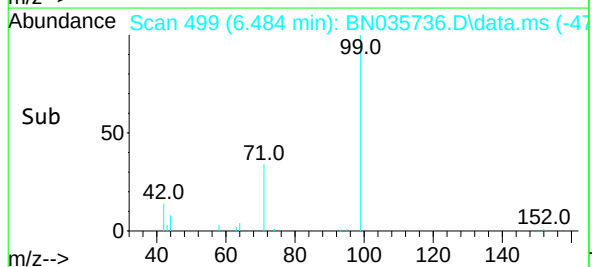
BNA\_N

ClientSampleId :

BPOW6-11-20241212MSD



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 99      | 100   |       |       |
| 42      | 20.0  | 11.4  | 17.2  |
| 71      | 45.9  | 29.3  | 43.9  |

Manual Integrations  
APPROVEDReviewed By :Yogesh Patel 12/21/2024  
Supervised By :mohammad ahmed 12/24/2024

#6

bis(2-Chloroethyl)ether

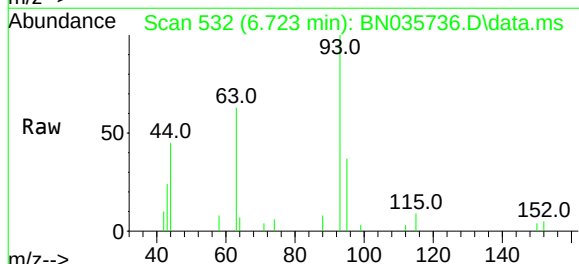
Concen: 0.284 ng

RT: 6.723 min Scan# 532

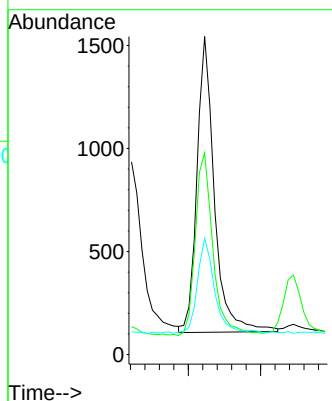
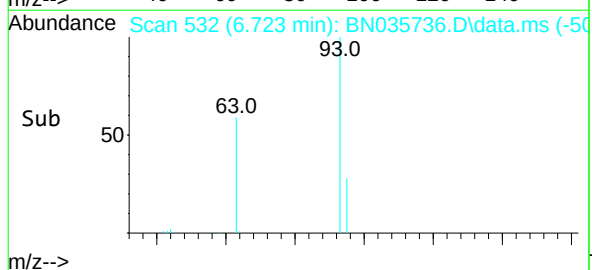
Delta R.T. -0.007 min

Lab File: BN035736.D

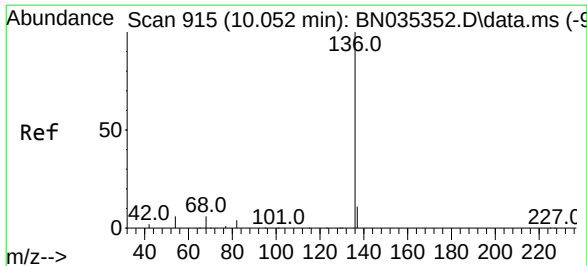
Acq: 20 Dec 2024 11:41



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 93      | 100   |       |       |
| 63      | 61.9  | 50.4  | 75.6  |
| 95      | 31.7  | 25.7  | 38.5  |

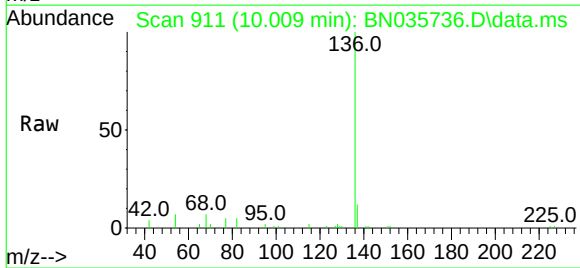






#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.009 min Scan# 915  
Delta R.T. -0.011 min  
Lab File: BN035736.D  
Acq: 20 Dec 2024 11:41

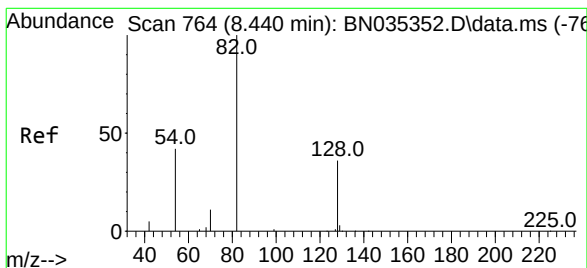
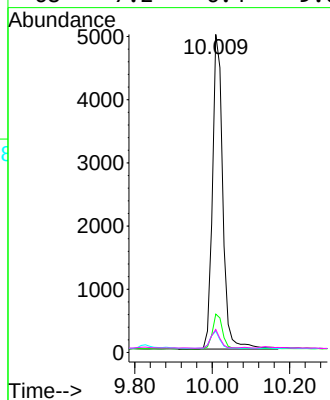
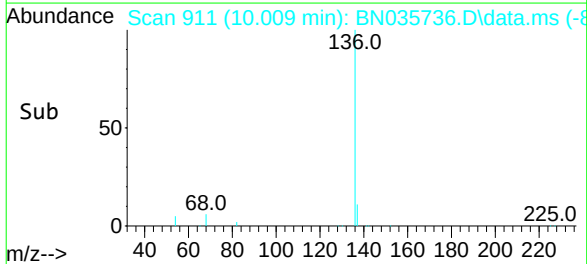
Instrument : BNA\_N  
ClientSampleId : BPOW6-11-20241212MSD



Tgt Ion: 136 Resp: 9243  
Ion Ratio Lower Upper  
136 100  
137 12.1 10.2 15.2  
54 6.7 6.1 9.1  
68 7.2 6.4 9.6

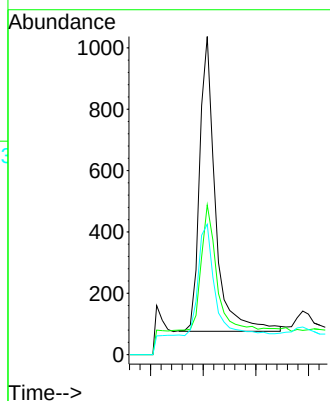
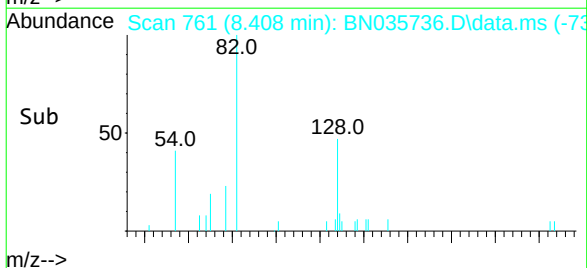
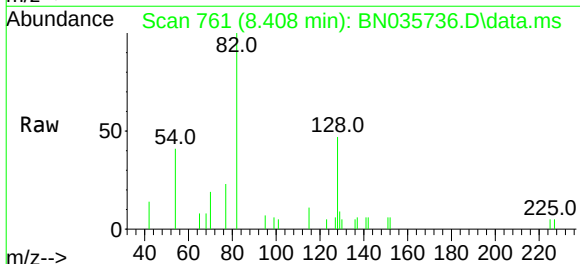
Manual Integrations  
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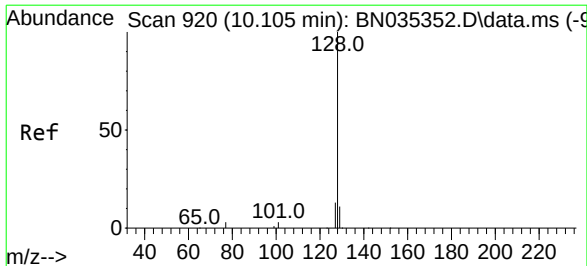
Reviewed By :Yogesh Patel 12/21/2024  
Supervised By :mohammad ahmed 12/24/2024



#8  
Nitrobenzene-d5  
Concen: 0.355 ng m  
RT: 8.408 min Scan# 761  
Delta R.T. -0.000 min  
Lab File: BN035736.D  
Acq: 20 Dec 2024 11:41

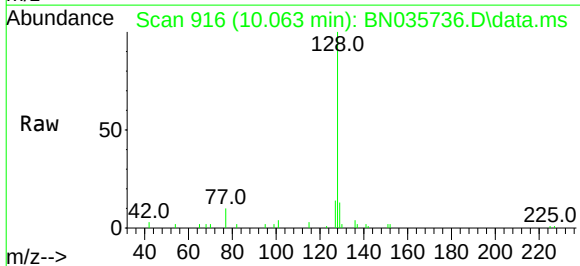
Tgt Ion: 82 Resp: 2003  
Ion Ratio Lower Upper  
82 100  
128 47.1 33.4 50.0  
54 41.0 36.7 55.1





#9  
Naphthalene  
Concen: 0.270 ng  
RT: 10.063 min Scan# 916  
Delta R.T. -0.000 min  
Lab File: BN035736.D  
Acq: 20 Dec 2024 11:41

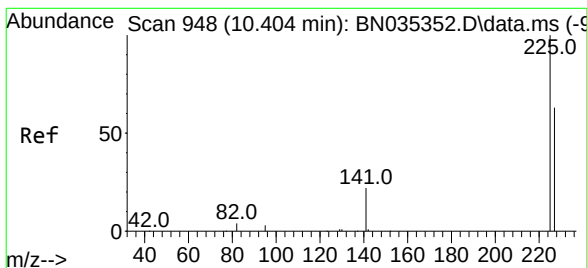
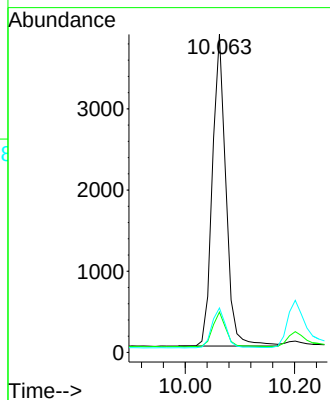
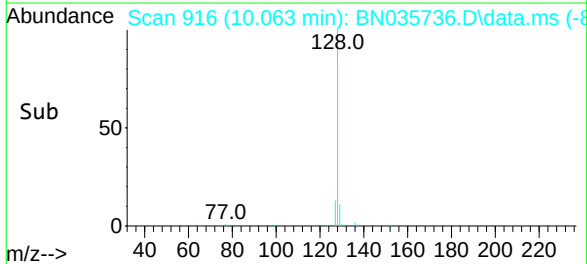
Instrument :  
BNA\_N  
ClientSampleId :  
BPOW6-11-20241212MSD



Tgt Ion:128 Resp: 6583  
Ion Ratio Lower Upper  
128 100  
129 12.7 9.8 14.6  
127 14.0 11.4 17.2

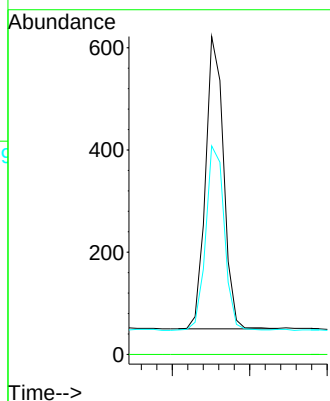
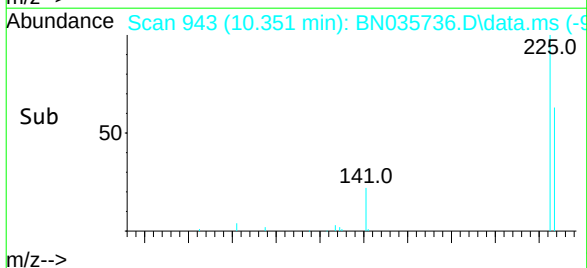
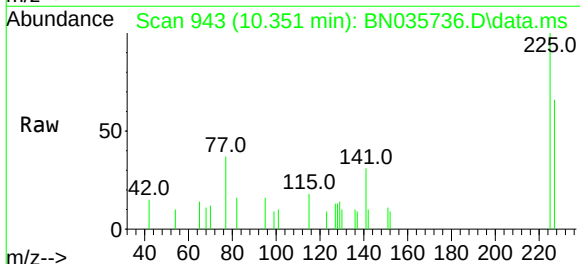
Manual Integrations  
APPROVED

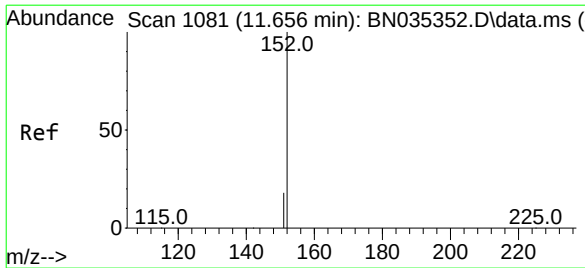
Reviewed By :Yogesh Patel 12/21/2024  
Supervised By :mohammad ahmed 12/24/2024



#10  
Hexachlorobutadiene  
Concen: 0.164 ng  
RT: 10.351 min Scan# 943  
Delta R.T. -0.011 min  
Lab File: BN035736.D  
Acq: 20 Dec 2024 11:41

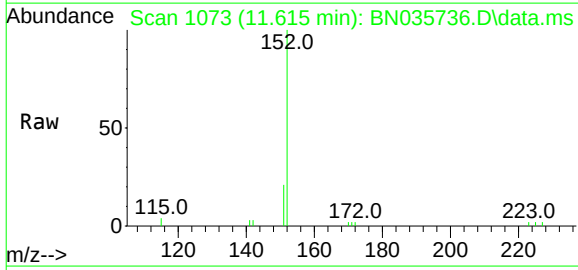
Tgt Ion:225 Resp: 924  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 65.3 51.3 76.9





#11  
2-Methylnaphthalene-d10  
Concen: 0.317 ng  
RT: 11.615 min Scan# 1081  
Delta R.T. -0.005 min  
Lab File: BN035736.D  
Acq: 20 Dec 2024 11:41

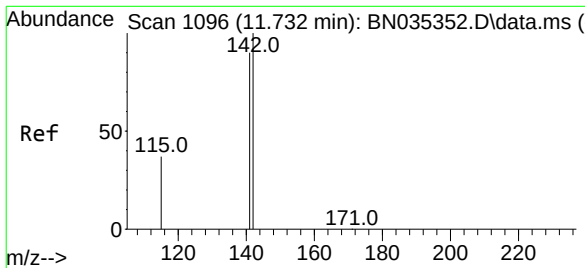
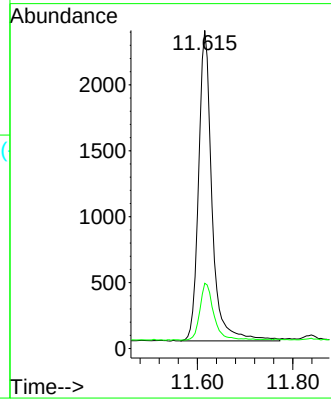
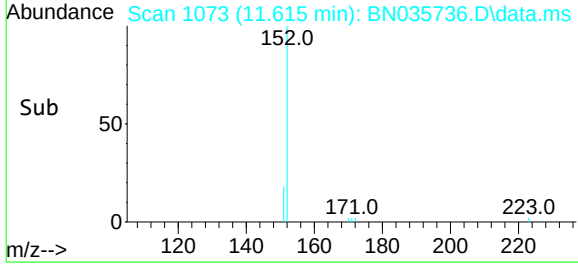
Instrument :  
BNA\_N  
ClientSampleId :  
BPOW6-11-20241212MSD



Tgt Ion:152 Resp: 4592  
Ion Ratio Lower Upper  
152 100  
151 19.0 16.6 25.0

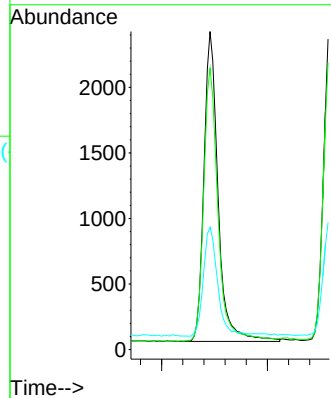
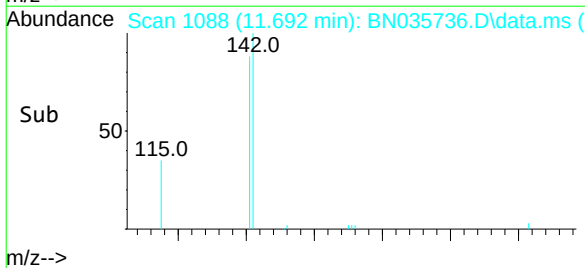
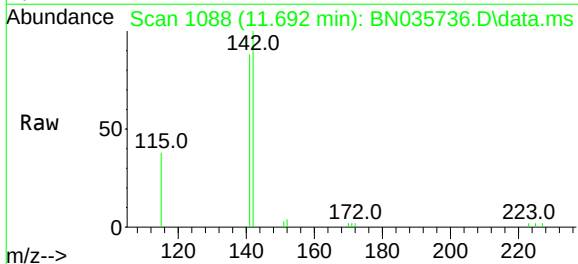
Manual Integrations  
APPROVED

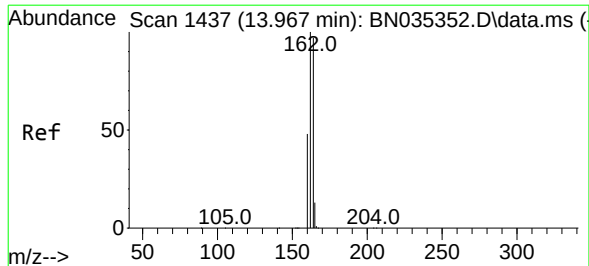
Reviewed By :Yogesh Patel 12/21/2024  
Supervised By :mohammad ahmed 12/24/2024



#12  
2-Methylnaphthalene  
Concen: 0.252 ng  
RT: 11.692 min Scan# 1088  
Delta R.T. -0.005 min  
Lab File: BN035736.D  
Acq: 20 Dec 2024 11:41

Tgt Ion:142 Resp: 4392  
Ion Ratio Lower Upper  
142 100  
141 88.4 72.2 108.4  
115 38.5 31.4 47.0





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 13.924 min Scan# 14

Delta R.T. -0.011 min

Lab File: BN035736.D

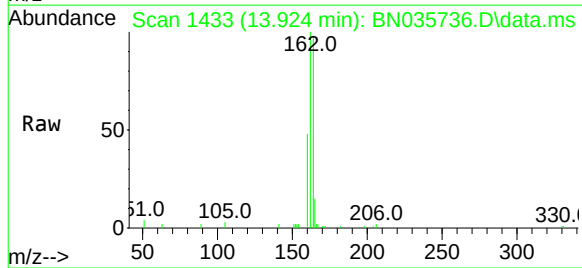
Acq: 20 Dec 2024 11:41

Instrument :

BNA\_N

ClientSampleId :

BPOW6-11-20241212MSD



Tgt Ion:164 Resp: 5773

Ion Ratio Lower Upper

164 100

162 102.4 82.2 123.2

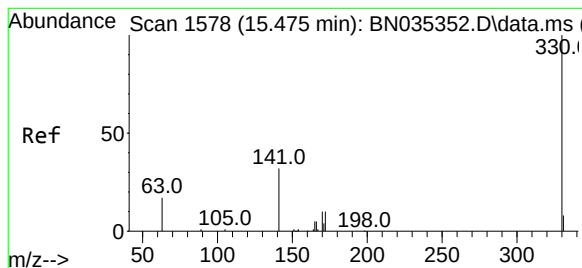
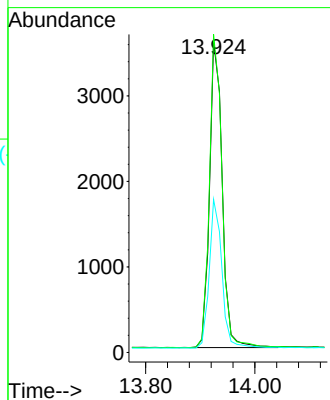
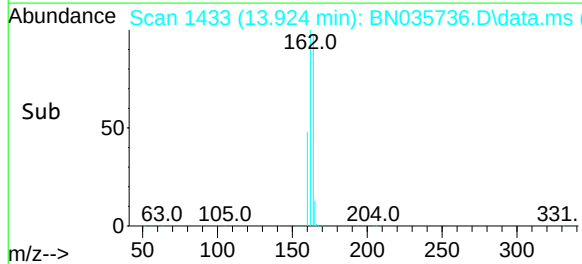
160 49.3 40.1 60.1

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Reviewed By :Yogesh Patel 12/21/2024

Supervised By :mohammad ahmed 12/24/2024



#14

2,4,6-Tribromophenol

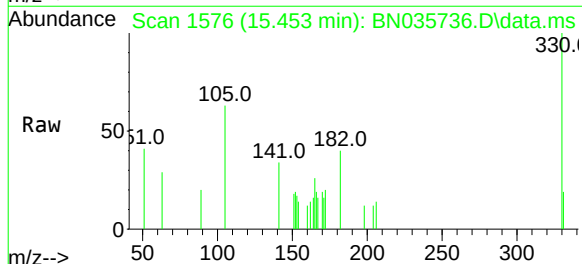
Concen: 0.184 ng

RT: 15.453 min Scan# 1576

Delta R.T. -0.000 min

Lab File: BN035736.D

Acq: 20 Dec 2024 11:41



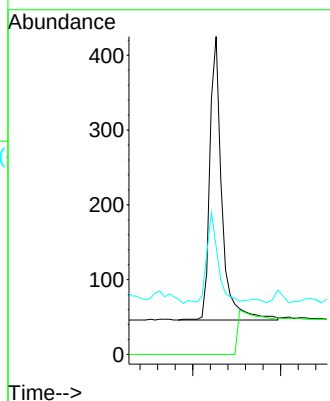
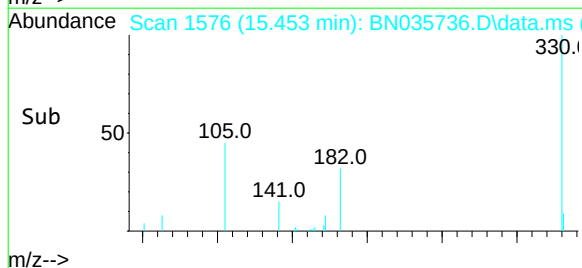
Tgt Ion:330 Resp: 754

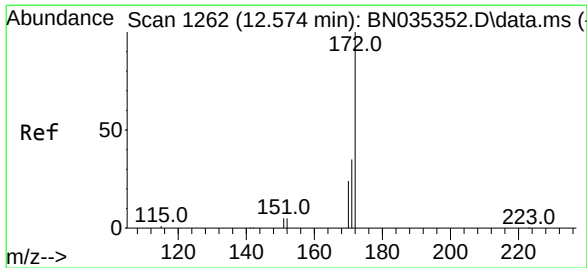
Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

141 28.5 26.6 40.0





#15

2-Fluorobiphenyl

Concen: 0.276 ng

RT: 12.538 min Scan# 12

Delta R.T. -0.005 min

Lab File: BN035736.D

Acq: 20 Dec 2024 11:41

Instrument :

BNA\_N

ClientSampleId :

BPOW6-11-20241212MSD

Tgt Ion:172 Resp: 6026

Ion Ratio Lower Upper

172 100

171 36.2 29.0 43.4

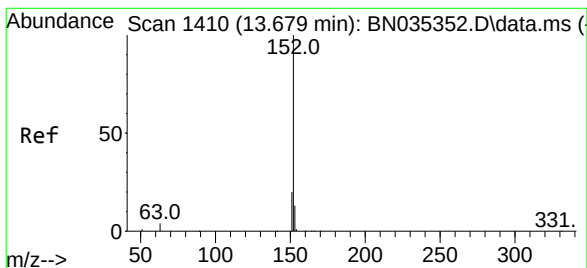
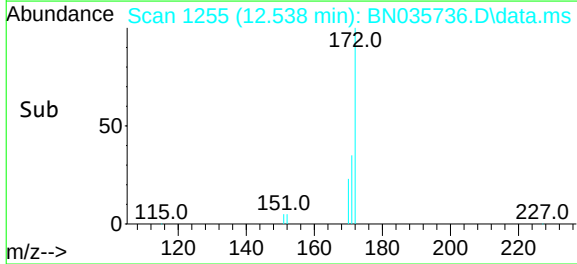
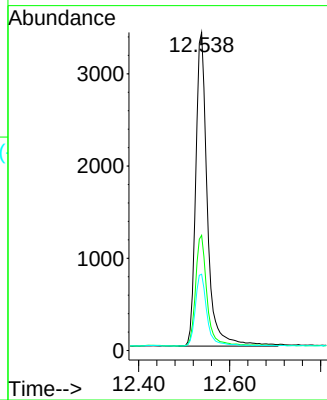
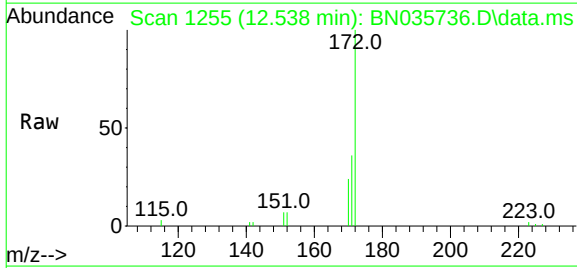
170 24.0 19.8 29.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/21/2024

Supervised By :mohammad ahmed 12/24/2024



#16

Acenaphthylene

Concen: 0.303 ng

RT: 13.636 min Scan# 1406

Delta R.T. -0.011 min

Lab File: BN035736.D

Acq: 20 Dec 2024 11:41

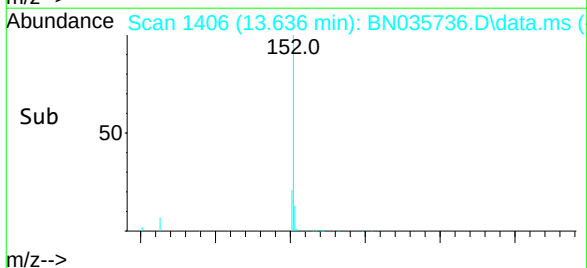
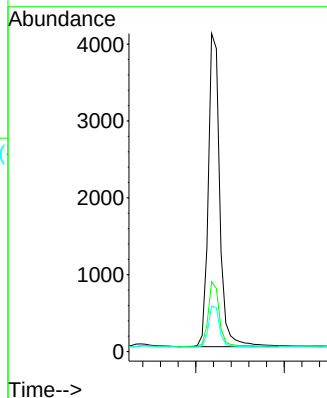
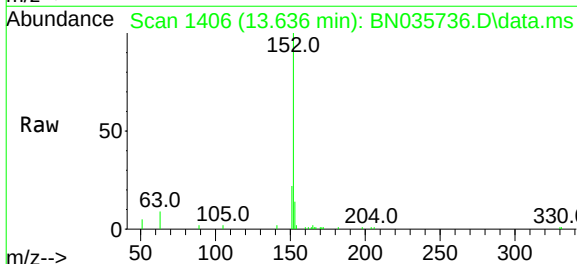
Tgt Ion:152 Resp: 7346

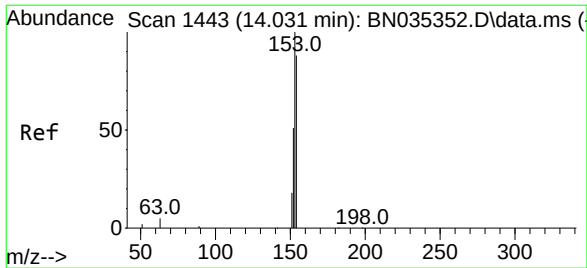
Ion Ratio Lower Upper

152 100

151 20.7 16.2 24.2

153 13.0 10.4 15.6





#17

Acenaphthene

Concen: 0.291 ng

RT: 13.989 min Scan# 14

Delta R.T. -0.011 min

Lab File: BN035736.D

Acq: 20 Dec 2024 11:41

Instrument :

BNA\_N

ClientSampleId :

BPOW6-11-20241212MSD

Tgt Ion:154 Resp: 4688

Ion Ratio Lower Upper

154 100

153 116.3 92.6 139.0

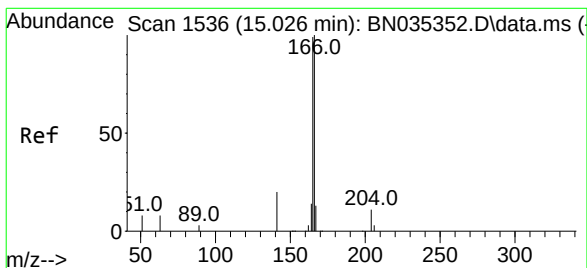
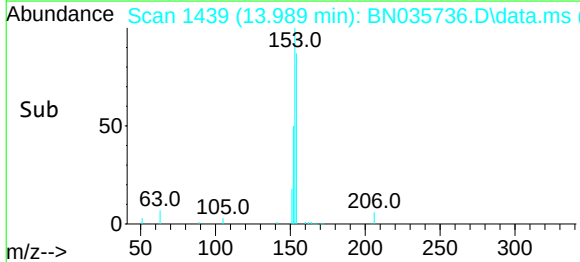
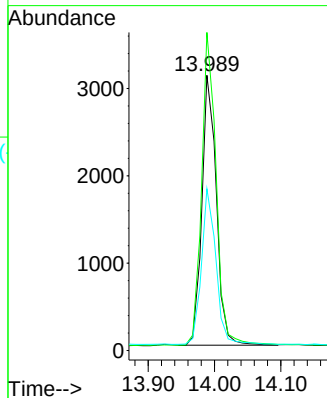
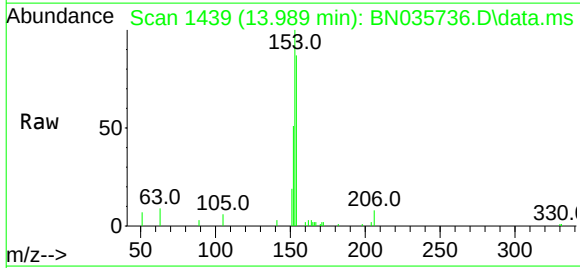
152 58.3 49.0 73.6

Manual Integrations

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Reviewed By :Yogesh Patel 12/21/2024

Supervised By :mohammad ahmed 12/24/2024



#18

Fluorene

Concen: 0.279 ng

RT: 14.993 min Scan# 1533

Delta R.T. -0.011 min

Lab File: BN035736.D

Acq: 20 Dec 2024 11:41

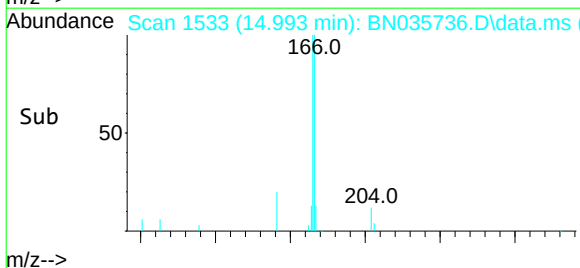
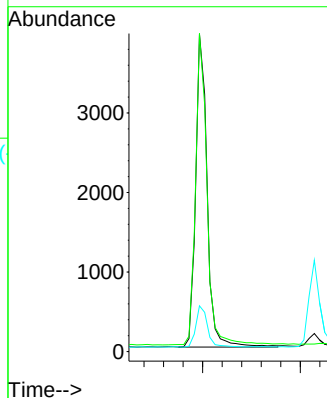
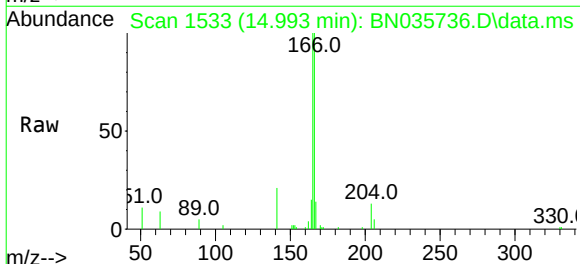
Tgt Ion:166 Resp: 6437

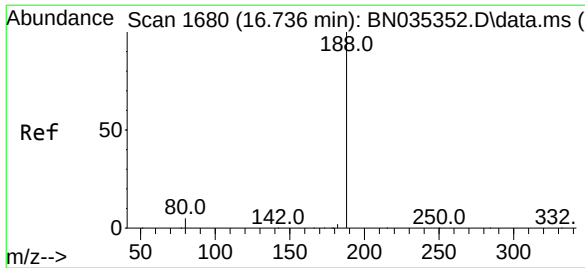
Ion Ratio Lower Upper

166 100

165 98.6 79.7 119.5

167 13.4 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.698 min Scan# 16

Delta R.T. -0.000 min

Lab File: BN035736.D

Acq: 20 Dec 2024 11:41

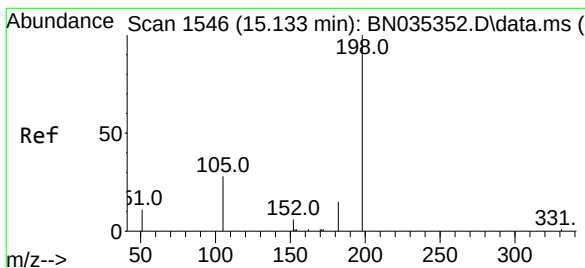
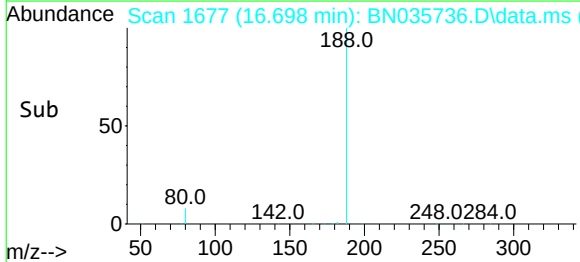
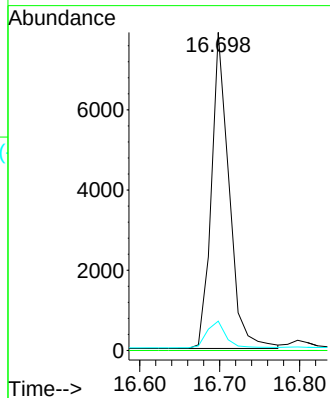
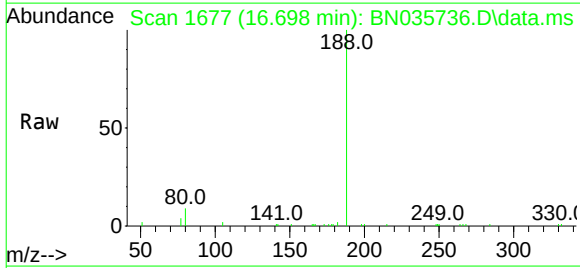
Instrument :

BNA\_N

ClientSampleId :

BPOW6-11-20241212MSD

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 188   | Resp: | 12117 |
| Ion Ratio | Lower | Upper |       |
| 188       | 100   |       |       |
| 94        | 0.0   | 0.0   | 0.0   |
| 80        | 9.2   | 4.6   | 6.8#  |

**Manual Integrations**  
**APPROVED**Reviewed By :Yogesh Patel 12/21/2024  
Supervised By :mohammad ahmed 12/24/2024

#20

4,6-Dinitro-2-methylphenol

Concen: 0.118 ng

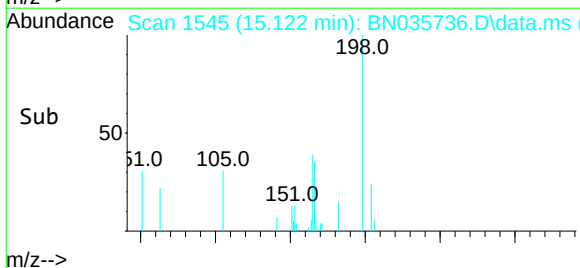
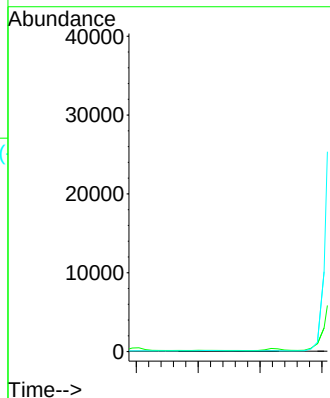
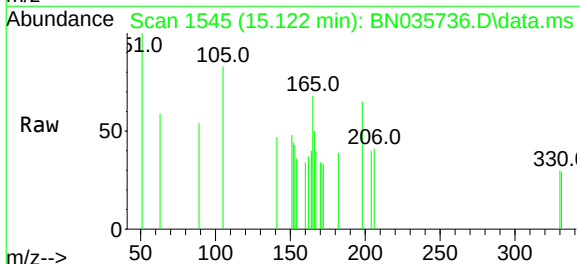
RT: 15.122 min Scan# 1545

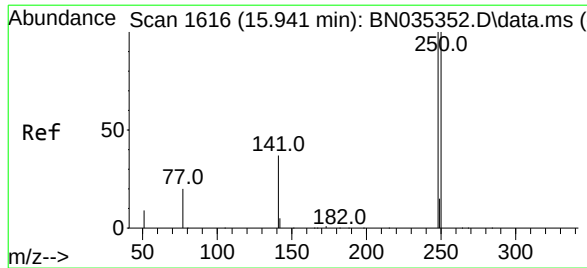
Delta R.T. -0.000 min

Lab File: BN035736.D

Acq: 20 Dec 2024 11:41

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 198   | Resp: | 141   |
| Ion Ratio | Lower | Upper |       |
| 198       | 100   |       |       |
| 51        | 153.5 | 46.5  | 69.7# |
| 105       | 127.7 | 45.3  | 67.9# |





#21

4-Bromophenyl-phenylether

Concen: 0.348 ng

RT: 15.904 min Scan# 1616

Delta R.T. -0.013 min

Lab File: BN035736.D

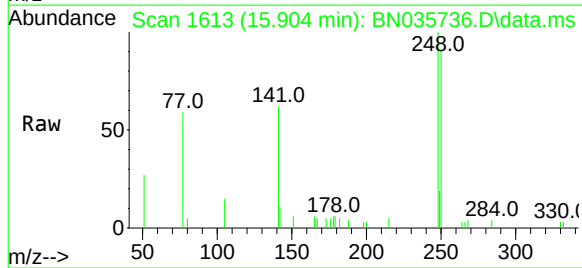
Acq: 20 Dec 2024 11:41

Instrument :

BNA\_N

ClientSampleId :

BPOW6-11-20241212MSD



Tgt Ion: 248 Resp: 2466

Ion Ratio Lower Upper

248 100

250 89.9 80.6 120.8

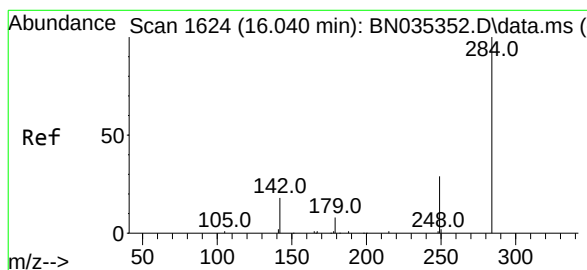
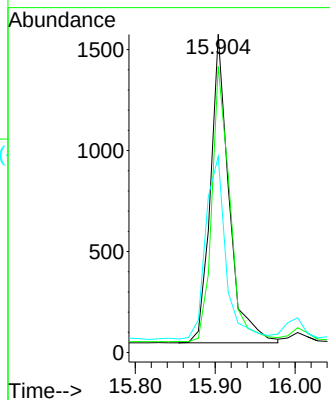
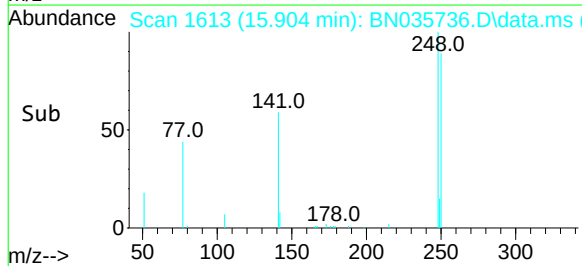
141 61.7 31.5 47.3

Manual Integrations

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Reviewed By : Yogesh Patel 12/21/2024

Supervised By : mohammad ahmed 12/24/2024



#22

Hexachlorobenzene

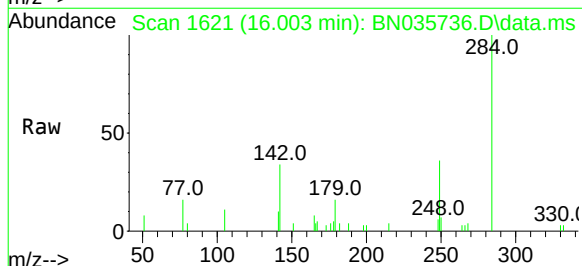
Concen: 0.333 ng

RT: 16.003 min Scan# 1621

Delta R.T. -0.013 min

Lab File: BN035736.D

Acq: 20 Dec 2024 11:41



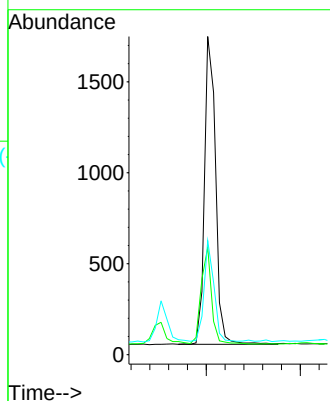
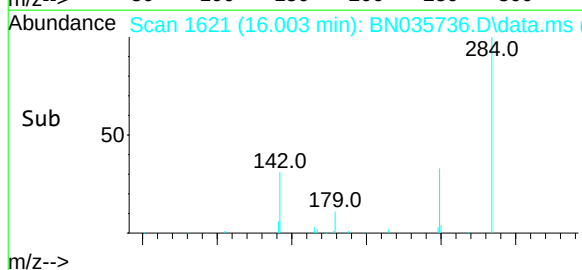
Tgt Ion: 284 Resp: 2768

Ion Ratio Lower Upper

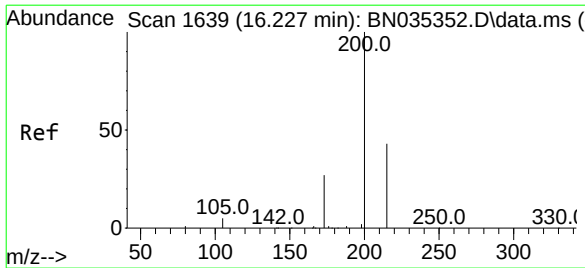
284 100

142 29.3 26.7 40.1

249 29.0 24.6 36.8







#23

Atrazine

Concen: 0.286 ng

RT: 16.202 min Scan# 1637

Delta R.T. -0.000 min

Lab File: BN035736.D

Acq: 20 Dec 2024 11:41

Instrument :

BNA\_N

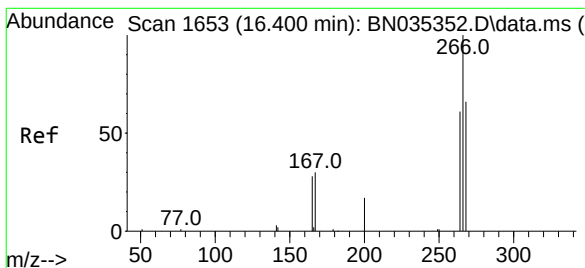
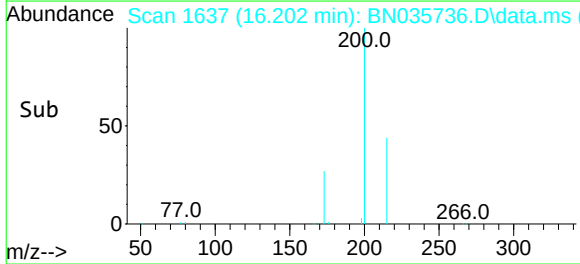
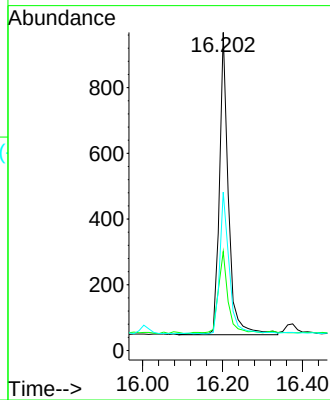
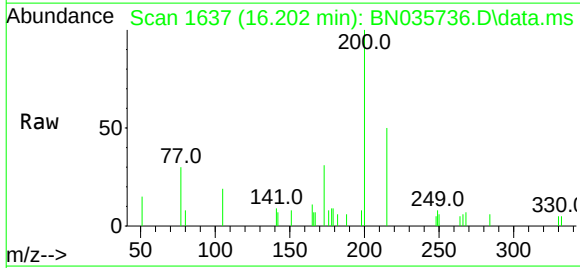
ClientSampleId :

BPOW6-11-20241212MSD

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 200   | Resp: | 1444  |
| Ion      | Ratio | Lower | Upper |
| 200      | 100   |       |       |
| 173      | 31.1  | 24.1  | 36.1  |
| 215      | 49.8  | 36.9  | 55.3  |

Manual Integrations  
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Reviewed By :Yogesh Patel 12/21/2024  
Supervised By :mohammad ahmed 12/24/2024



#24

Pentachlorophenol

Concen: 0.100 ng

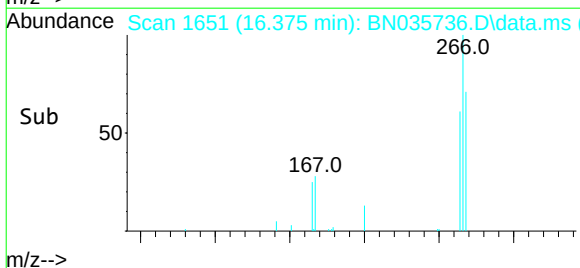
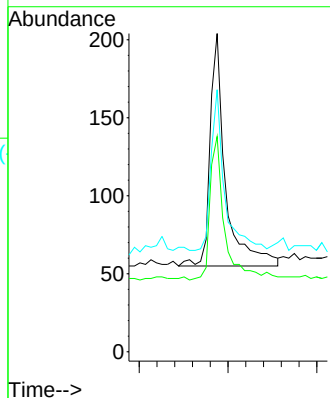
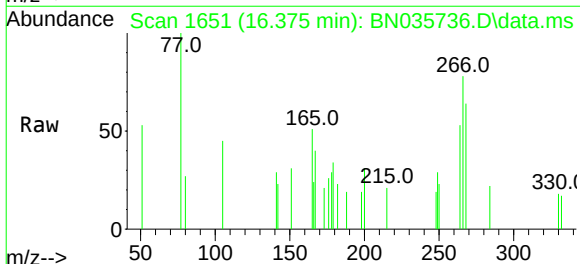
RT: 16.375 min Scan# 1651

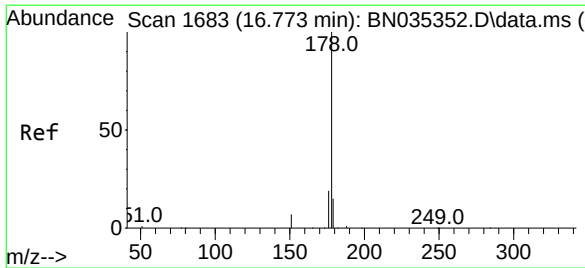
Delta R.T. -0.000 min

Lab File: BN035736.D

Acq: 20 Dec 2024 11:41

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 266   | Resp: | 361   |
| Ion      | Ratio | Lower | Upper |
| 266      | 100   |       |       |
| 264      | 58.7  | 42.3  | 63.5  |
| 268      | 59.8  | 43.3  | 64.9  |





#25

Phenanthrene

Concen: 0.354 ng

RT: 16.735 min Scan# 16

Delta R.T. -0.013 min

Lab File: BN035736.D

Acq: 20 Dec 2024 11:41

Instrument :

BNA\_N

ClientSampleId :

BPOW6-11-20241212MSD

Tgt Ion:178 Resp: 11782

Ion Ratio Lower Upper

178 100

176 19.0 15.4 23.2

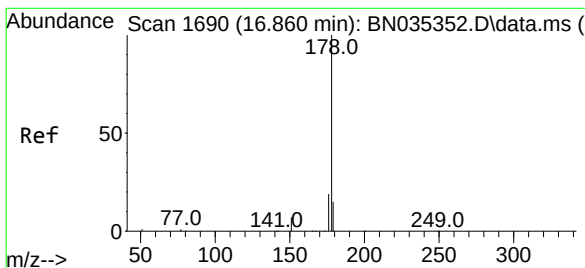
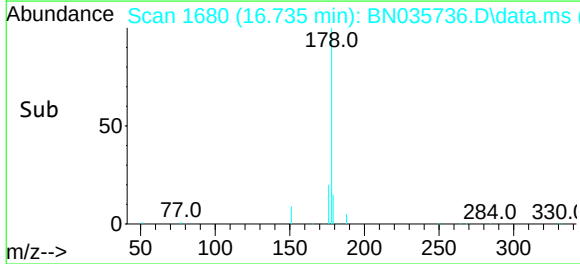
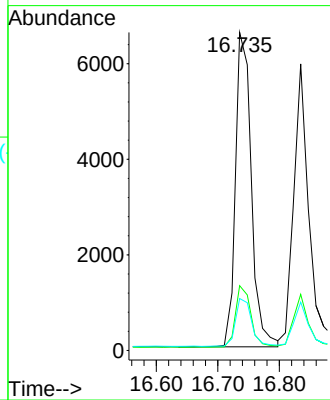
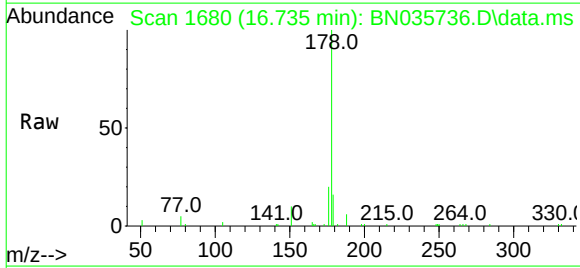
179 15.6 12.3 18.5

Manual Integrations

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Reviewed By :Yogesh Patel 12/21/2024

Supervised By :mohammad ahmed 12/24/2024



#26

Anthracene

Concen: 0.338 ng

RT: 16.835 min Scan# 1688

Delta R.T. -0.000 min

Lab File: BN035736.D

Acq: 20 Dec 2024 11:41

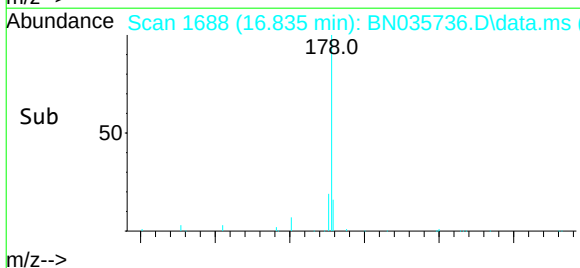
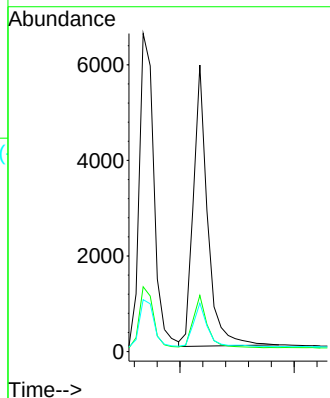
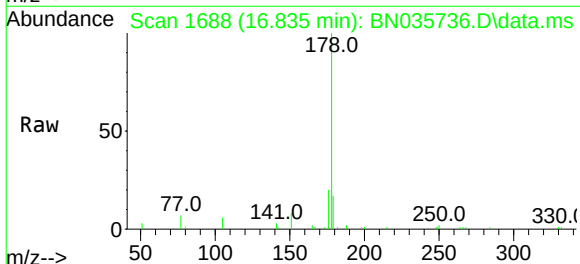
Tgt Ion:178 Resp: 10189

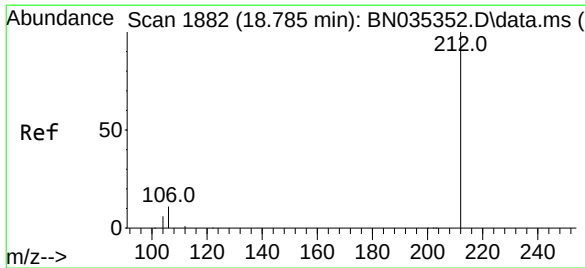
Ion Ratio Lower Upper

178 100

176 18.6 15.0 22.6

179 15.9 12.6 18.8





#27

Fluoranthene-d10

Concen: 0.387 ng

RT: 18.757 min Scan# 18

Delta R.T. -0.005 min

Lab File: BN035736.D

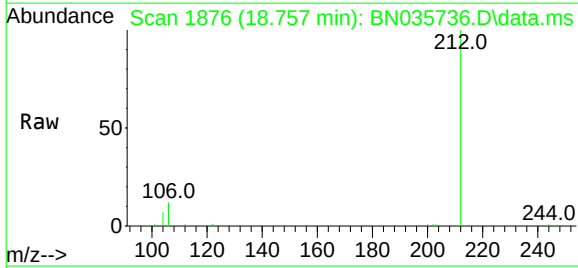
Acq: 20 Dec 2024 11:41

Instrument :

BNA\_N

ClientSampleId :

BPOW6-11-20241212MSD



Tgt Ion:212 Resp: 13288

Ion Ratio Lower Upper

212 100

106 11.1 9.2 13.8

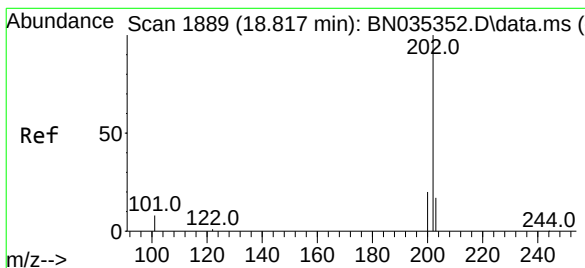
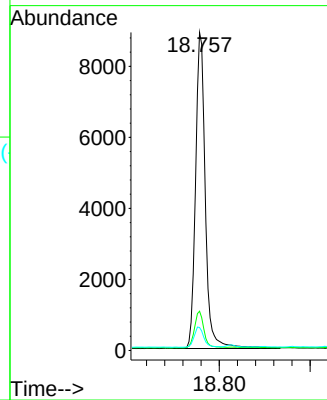
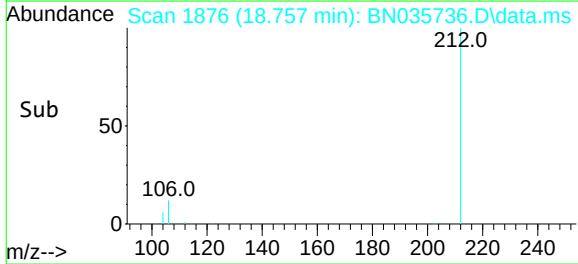
104 6.3 5.3 7.9

Manual Integrations

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Reviewed By :Yogesh Patel 12/21/2024

Supervised By :mohammad ahmed 12/24/2024



#28

Fluoranthene

Concen: 0.339 ng

RT: 18.789 min Scan# 1883

Delta R.T. -0.000 min

Lab File: BN035736.D

Acq: 20 Dec 2024 11:41

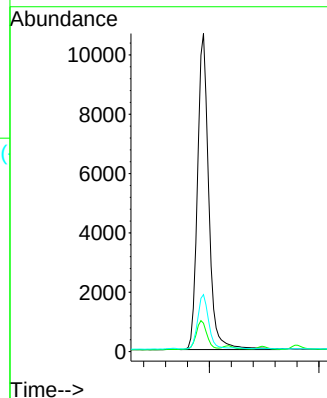
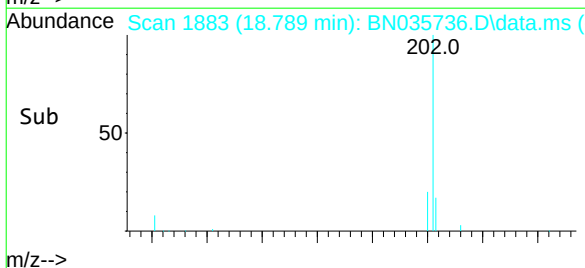
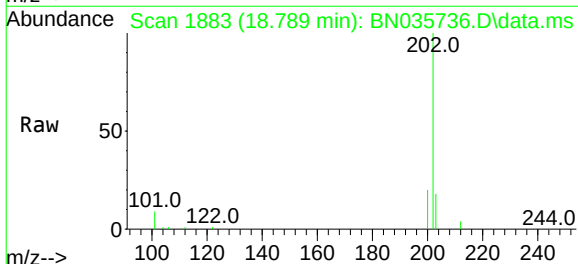
Tgt Ion:202 Resp: 15192

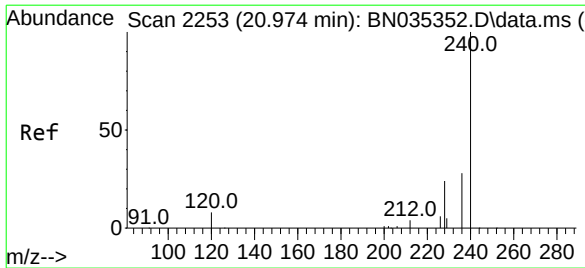
Ion Ratio Lower Upper

202 100

101 8.9 7.4 11.0

203 16.7 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.947 min Scan# 2253

Delta R.T. -0.009 min

Lab File: BN035736.D

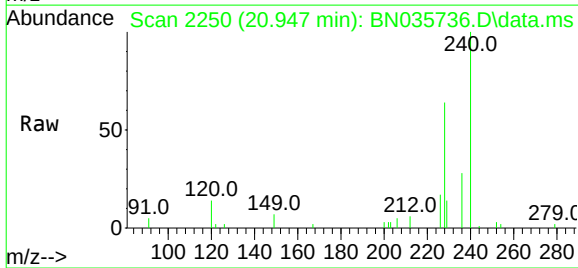
Acq: 20 Dec 2024 11:41

Instrument :

BNA\_N

ClientSampleId :

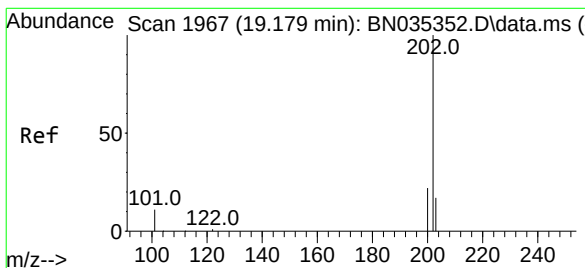
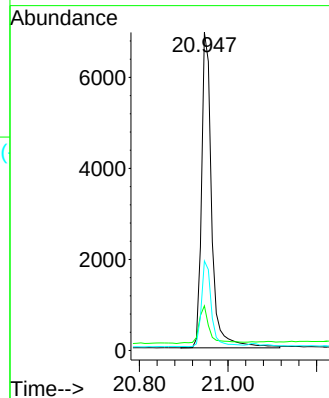
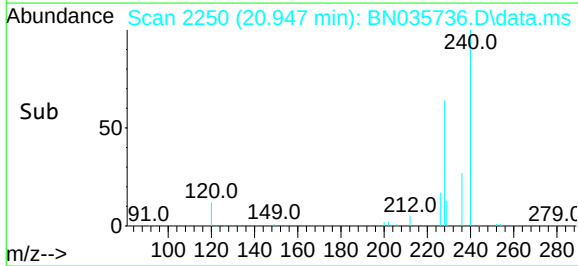
BPOW6-11-20241212MSD



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 240   | Resp: | 11029 |
| Ion Ratio | Lower | Upper |       |
| 240       | 100   |       |       |
| 120       | 14.0  | 7.9   | 11.9  |
| 236       | 28.1  | 22.9  | 34.3  |

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 12/21/2024  
Supervised By :mohammad ahmed 12/24/2024



#30

Pyrene

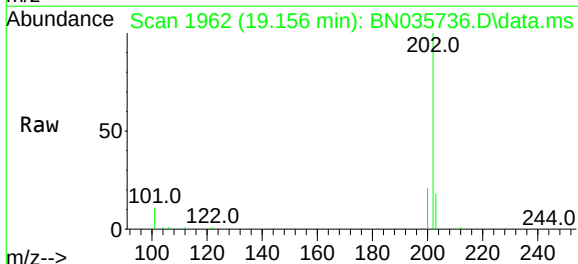
Concen: 0.391 ng

RT: 19.156 min Scan# 1962

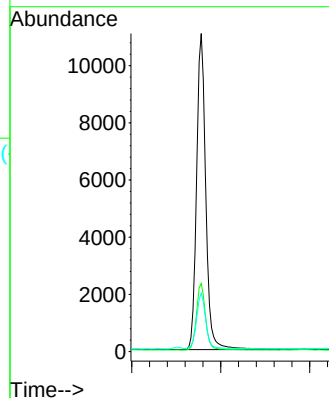
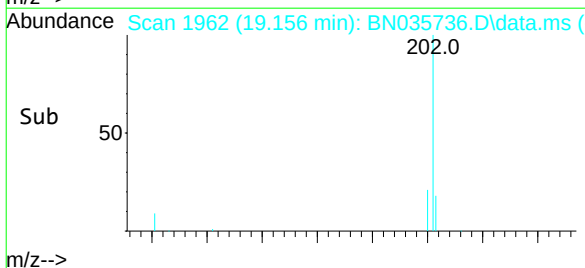
Delta R.T. -0.005 min

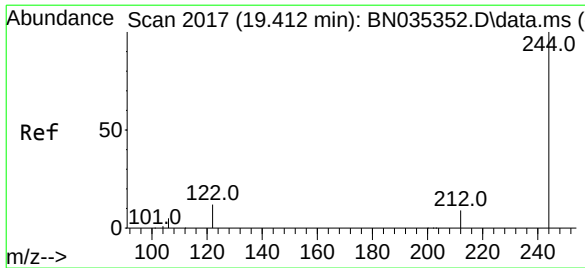
Lab File: BN035736.D

Acq: 20 Dec 2024 11:41



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 15901 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 200       | 20.8  | 17.0  | 25.4  |
| 203       | 17.2  | 14.3  | 21.5  |





#31

Terphenyl-d14

Concen: 0.486 ng

RT: 19.388 min Scan# 20

Delta R.T. -0.000 min

Lab File: BN035736.D

Acq: 20 Dec 2024 11:41

Instrument :

BNA\_N

ClientSampleId :

BPOW6-11-20241212MSD

Tgt Ion:244 Resp: 10572

Ion Ratio Lower Upper

244 100

212 8.9 8.1 12.1

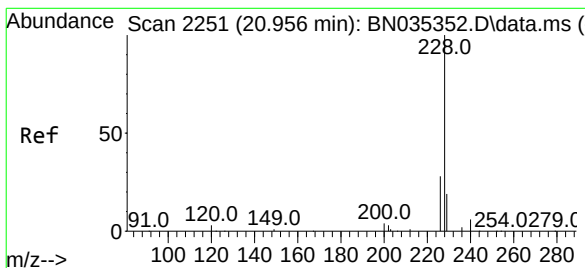
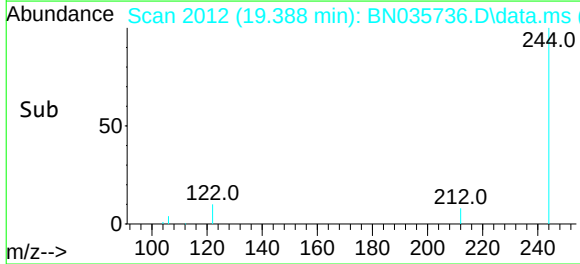
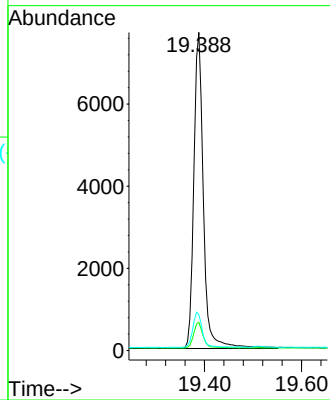
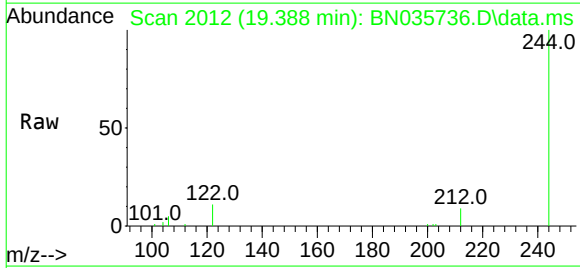
122 11.3 10.3 15.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/21/2024

Supervised By :mohammad ahmed 12/24/2024



#32

Benzo(a)anthracene

Concen: 0.350 ng

RT: 20.938 min Scan# 2249

Delta R.T. -0.000 min

Lab File: BN035736.D

Acq: 20 Dec 2024 11:41

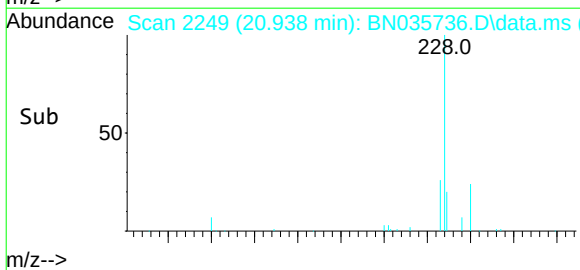
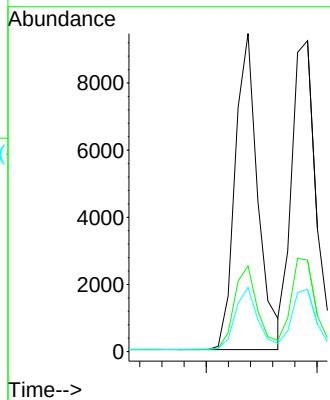
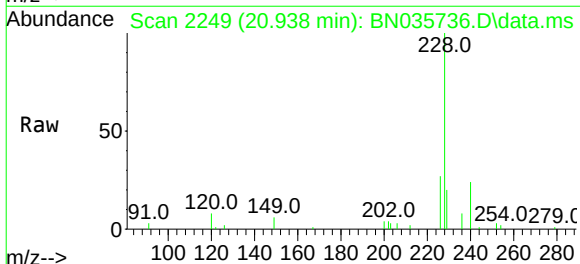
Tgt Ion:228 Resp: 13511

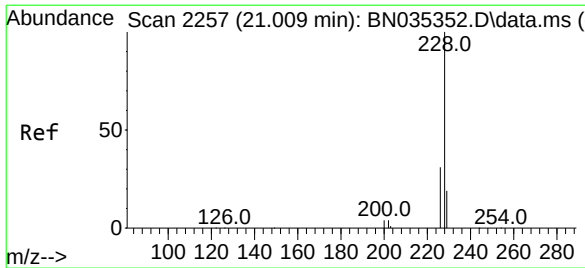
Ion Ratio Lower Upper

228 100

226 26.9 22.5 33.7

229 20.2 15.8 23.8





#33

Chrysene

Concen: 0.377 ng

RT: 20.991 min Scan# 2255

Delta R.T. -0.000 min

Lab File: BN035736.D

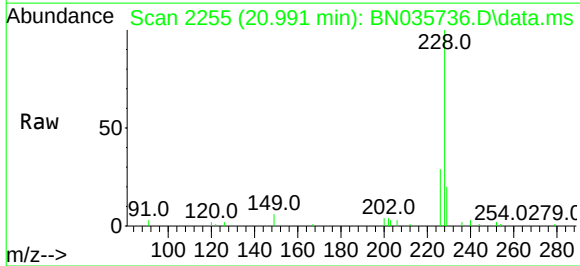
Acq: 20 Dec 2024 11:41

Instrument :

BNA\_N

ClientSampleId :

BPOW6-11-20241212MSD



Tgt Ion:228 Resp: 15009

Ion Ratio Lower Upper

228 100

226 29.4 24.6 37.0

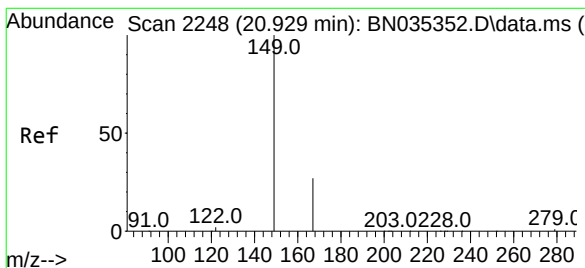
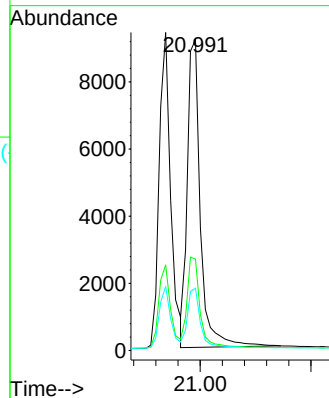
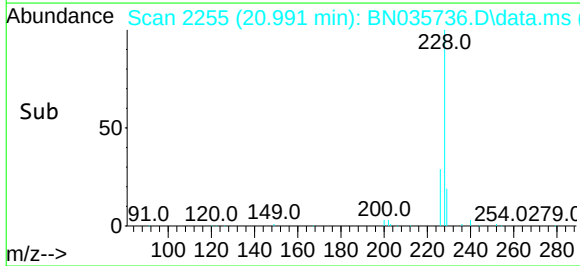
229 20.0 15.9 23.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/21/2024

Supervised By :mohammad ahmed 12/24/2024



#34

Bis(2-ethylhexyl)phthalate

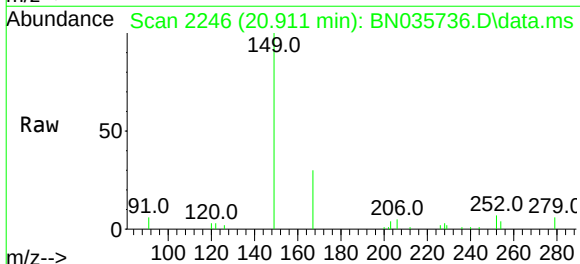
Concen: 0.478 ng

RT: 20.911 min Scan# 2246

Delta R.T. -0.000 min

Lab File: BN035736.D

Acq: 20 Dec 2024 11:41



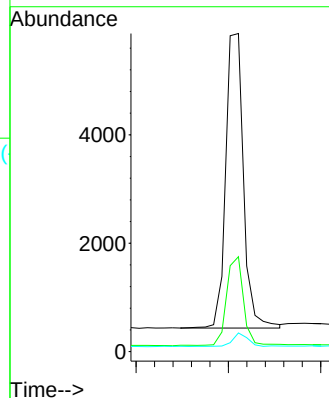
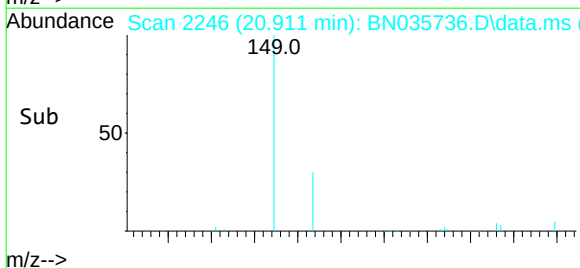
Tgt Ion:149 Resp: 7279

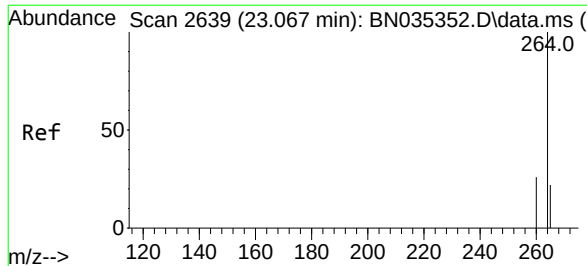
Ion Ratio Lower Upper

149 100

167 28.2 22.2 33.4

279 4.2 2.7 4.1#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.038 min Scan# 2639

Delta R.T. -0.003 min

Lab File: BN035736.D

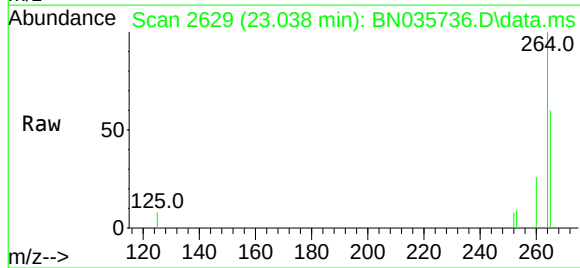
Acq: 20 Dec 2024 11:41

Instrument :

BNA\_N

ClientSampleId :

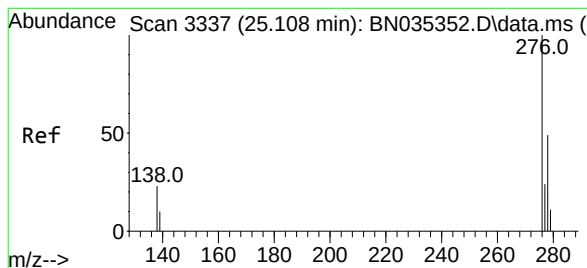
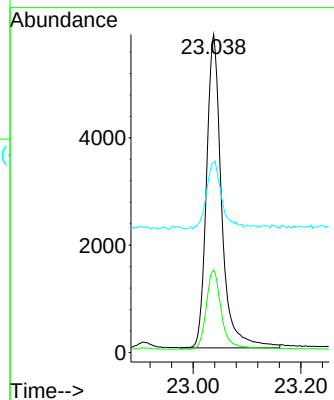
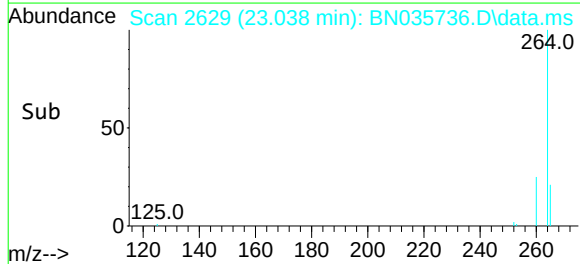
BPOW6-11-20241212MSD



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 264   | Resp: | 11370 |
| Ion      | Ratio | Lower | Upper |
| 264      | 100   |       |       |
| 260      | 25.9  | 21.4  | 32.2  |
| 265      | 59.6  | 40.2  | 60.4  |

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 12/21/2024  
Supervised By :mohammad ahmed 12/24/2024



#36

Indeno(1,2,3-cd)pyrene

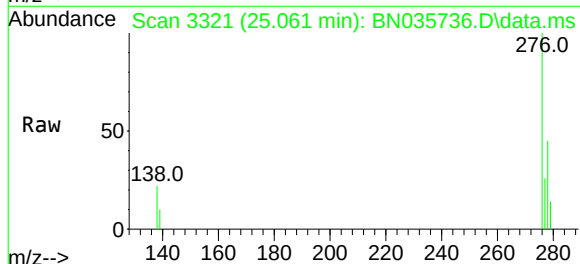
Concen: 0.335 ng

RT: 25.061 min Scan# 3321

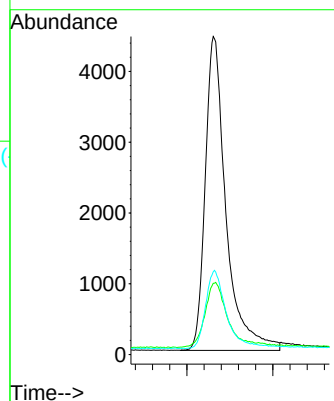
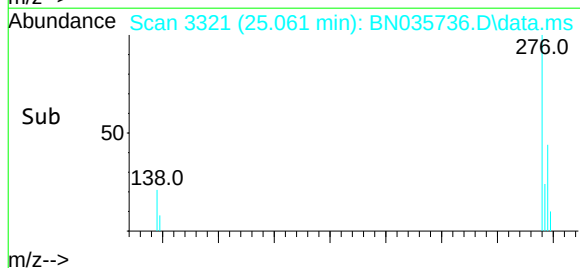
Delta R.T. -0.006 min

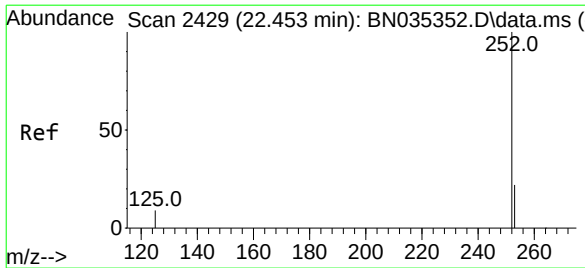
Lab File: BN035736.D

Acq: 20 Dec 2024 11:41



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 276   | Resp: | 14877 |
| Ion      | Ratio | Lower | Upper |
| 276      | 100   |       |       |
| 138      | 22.3  | 19.4  | 29.0  |
| 277      | 24.7  | 19.8  | 29.6  |





#37

Benzo(b)fluoranthene

Concen: 0.516 ng

RT: 22.427 min Scan# 2429

Delta R.T. -0.003 min

Lab File: BN035736.D

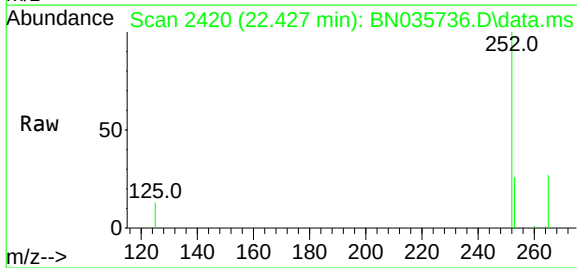
Acq: 20 Dec 2024 11:41

Instrument :

BNA\_N

ClientSampleId :

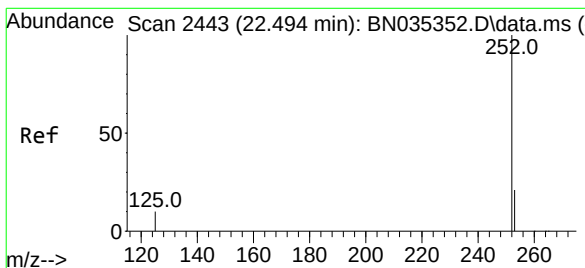
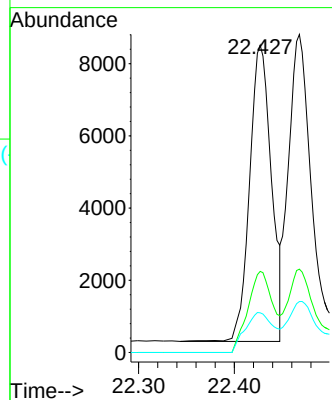
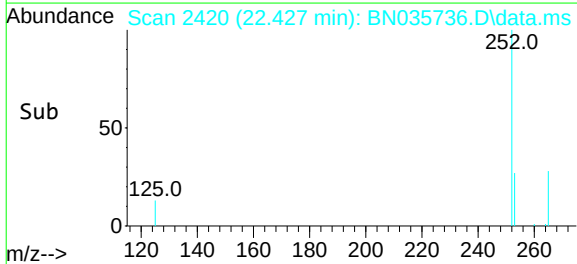
BPOW6-11-20241212MSD



|     |       |       |       |       |
|-----|-------|-------|-------|-------|
| Tgt | Ion   | 252   | Resp: | 21467 |
| Ion | Ratio | Lower | Upper |       |
| 252 | 100   |       |       |       |
| 253 | 26.4  | 19.6  | 29.4  |       |
| 125 | 12.9  | 9.6   | 14.4  |       |

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 12/21/2024  
Supervised By :mohammad ahmed 12/24/2024



#38

Benzo(k)fluoranthene

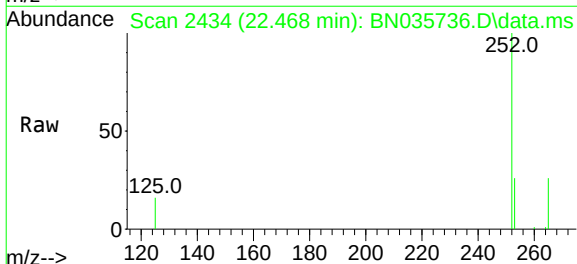
Concen: 0.371 ng m

RT: 22.468 min Scan# 2434

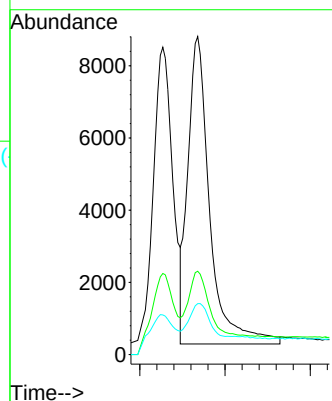
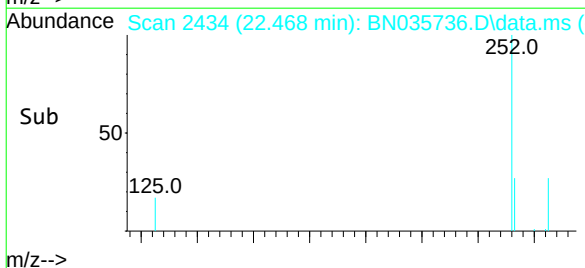
Delta R.T. -0.003 min

Lab File: BN035736.D

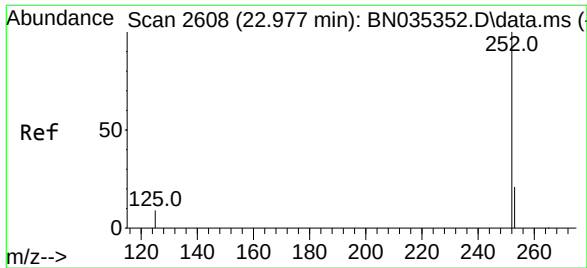
Acq: 20 Dec 2024 11:41



|     |       |       |       |       |
|-----|-------|-------|-------|-------|
| Tgt | Ion   | 252   | Resp: | 15196 |
| Ion | Ratio | Lower | Upper |       |
| 252 | 100   |       |       |       |
| 253 | 26.2  | 19.5  | 29.3  |       |
| 125 | 16.0  | 10.2  | 15.4  |       |







#39

Benzo(a)pyrene

Concen: 0.326 ng

RT: 22.950 min Scan# 25

Delta R.T. -0.000 min

Lab File: BN035736.D

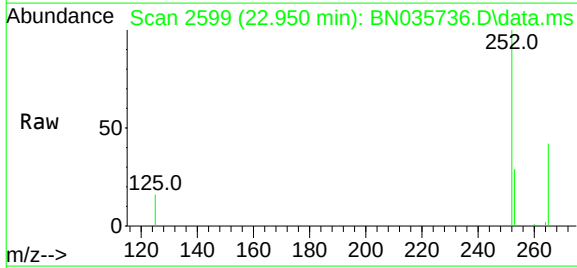
Acq: 20 Dec 2024 11:41

Instrument :

BNA\_N

ClientSampleId :

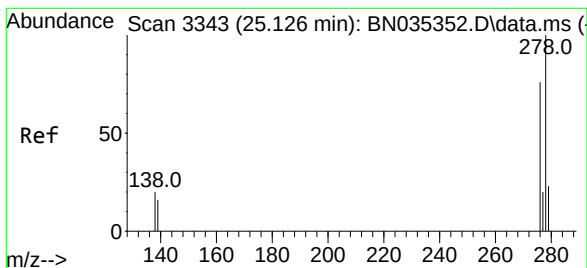
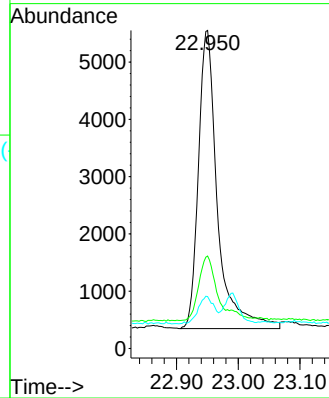
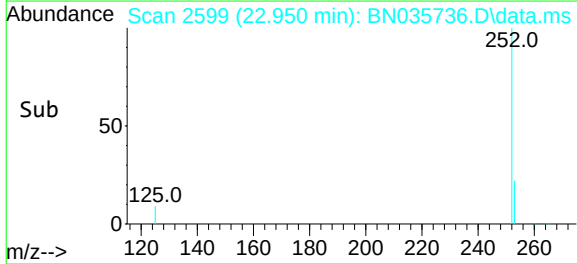
BPOW6-11-20241212MSD



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 29.1  | 20.2  | 30.4  |
| 125     | 16.3  | 10.9  | 16.3  |

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 12/21/2024  
Supervised By :mohammad ahmed 12/24/2024



#40

Dibenzo(a,h)anthracene

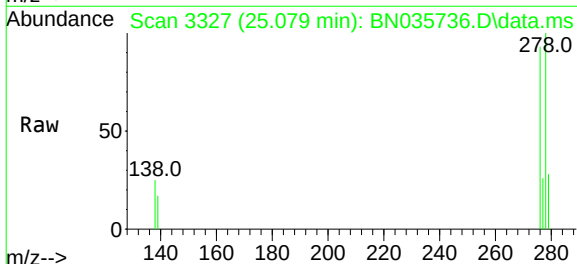
Concen: 0.327 ng

RT: 25.079 min Scan# 3327

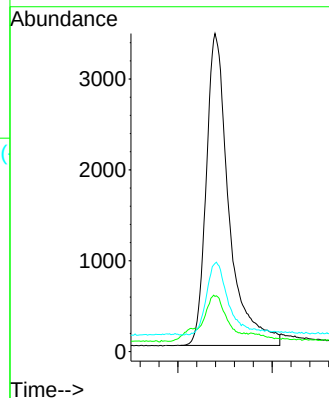
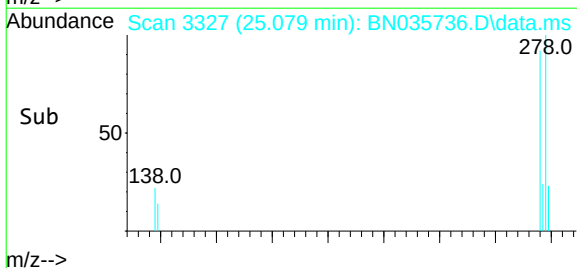
Delta R.T. -0.003 min

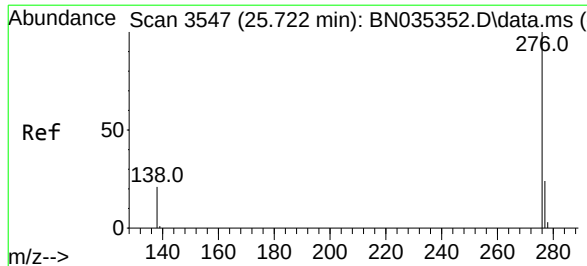
Lab File: BN035736.D

Acq: 20 Dec 2024 11:41



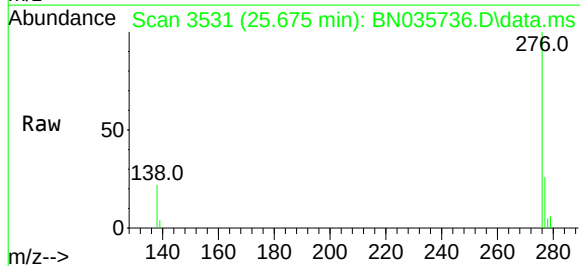
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 17.3  | 14.2  | 21.4  |
| 279     | 27.7  | 20.5  | 30.7  |





Benzo(g,h,i)perylene  
Concen: 0.301 ng  
RT: 25.675 min Scan# 351  
Delta R.T. -0.003 min  
Lab File: BN035736.D  
Acq: 20 Dec 2024 11:41

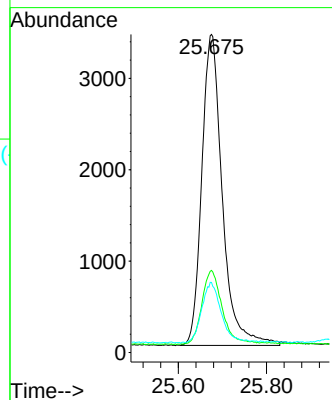
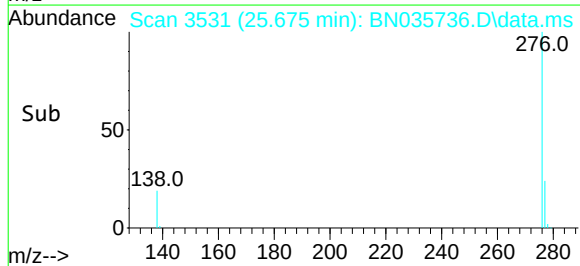
Instrument :  
BNA\_N  
ClientSampleId :  
BPOW6-11-20241212MSD



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 25.8  | 19.9  | 29.9  |
| 138     | 22.0  | 17.8  | 26.8  |

Manual Integrations  
**APPROVED**

Reviewed By :Yogesh Patel 12/21/2024  
Supervised By :mohammad ahmed 12/24/2024



## Manual Integration Report

|           |          |            |       |
|-----------|----------|------------|-------|
| Sequence: | BN112724 | Instrument | BNA_n |
|-----------|----------|------------|-------|

| Sample ID   | File ID    | Parameter            | Review By | Review On                 | Supervised By | Supervised On            | Reason                      |
|-------------|------------|----------------------|-----------|---------------------------|---------------|--------------------------|-----------------------------|
| SSTDICC0.1  | BN035350.D | Benzo(k)fluoranthene | yogesh    | 11/29/2024<br>12:47:08 AM | mohammad      | 12/3/2024<br>12:32:57 AM | Peak Integrated by Software |
| SSTDICC0.1  | BN035350.D | Nitrobenzene-d5      | yogesh    | 11/29/2024<br>12:47:08 AM | mohammad      | 12/3/2024<br>12:32:57 AM | Peak Integrated by Software |
| SSTDICC0.2  | BN035351.D | Benzo(k)fluoranthene | yogesh    | 11/29/2024<br>12:47:10 AM | mohammad      | 12/3/2024<br>12:32:57 AM | Peak Integrated by Software |
| SSTDICC0.2  | BN035351.D | Nitrobenzene-d5      | yogesh    | 11/29/2024<br>12:47:10 AM | mohammad      | 12/3/2024<br>12:32:57 AM | Peak Integrated by Software |
| SSTDICCC0.4 | BN035352.D | Nitrobenzene-d5      | yogesh    | 11/29/2024<br>12:47:11 AM | mohammad      | 12/3/2024<br>12:32:57 AM | Peak Integrated by Software |
| SSTDICV0.4  | BN035357.D | Nitrobenzene-d5      | yogesh    | 11/29/2024<br>12:47:22 AM | mohammad      | 12/3/2024<br>12:32:57 AM | Peak Integrated by Software |
| SSTDCCC0.4  | BN035366.D | Nitrobenzene-d5      | yogesh    | 11/29/2024<br>12:47:37 AM | mohammad      | 12/3/2024<br>12:32:57 AM | Peak Integrated by Software |
| SSTDCCC0.4  | BN035368.D | Nitrobenzene-d5      | yogesh    | 11/29/2024<br>12:48:03 AM | mohammad      | 12/3/2024<br>12:32:57 AM | Peak Integrated by Software |
| SSTDCCC0.4  | BN035375.D | Nitrobenzene-d5      | yogesh    | 11/29/2024<br>12:48:17 AM | mohammad      | 12/3/2024<br>12:32:57 AM | Peak Integrated by Software |

## Manual Integration Report

|           |          |            |       |
|-----------|----------|------------|-------|
| Sequence: | BN121924 | Instrument | BNA_n |
|-----------|----------|------------|-------|

| Sample ID   | File ID    | Parameter            | Review By | Review On                 | Supervised By | Supervised On             | Reason                      |
|-------------|------------|----------------------|-----------|---------------------------|---------------|---------------------------|-----------------------------|
| SSTDCCC0.4  | BN035712.D | Benzo(k)fluoranthene | yogesh    | 12/21/2024<br>1:12:22 AM  | mohammad      | 12/24/2024<br>11:31:00 PM | Peak Integrated by Software |
| SSTDCCC0.4  | BN035712.D | Nitrobenzene-d5      | yogesh    | 12/21/2024<br>1:12:22 AM  | mohammad      | 12/24/2024<br>11:31:00 PM | Peak Integrated by Software |
| SSTDCCC0.4  | BN035729.D | Benzo(k)fluoranthene | yogesh    | 12/21/2024<br>1:13:50 AM  | mohammad      | 12/24/2024<br>11:31:00 PM | Peak Integrated by Software |
| SSTDCCC0.4  | BN035729.D | Nitrobenzene-d5      | yogesh    | 12/21/2024<br>1:13:50 AM  | mohammad      | 12/24/2024<br>11:31:00 PM | Peak Integrated by Software |
| SSTDCCC0.4  | BN035731.D | Benzo(k)fluoranthene | yogesh    | 12/21/2024<br>1:13:55 AM  | mohammad      | 12/24/2024<br>11:31:00 PM | Peak Integrated by Software |
| SSTDCCC0.4  | BN035731.D | Nitrobenzene-d5      | yogesh    | 12/21/2024<br>1:13:55 AM  | mohammad      | 12/24/2024<br>11:31:00 PM | Peak Integrated by Software |
| P5280-04MS  | BN035735.D | Benzo(k)fluoranthene | yogesh    | 12/21/2024<br>1:14:15 AM  | mohammad      | 12/24/2024<br>11:31:00 PM | Peak Integrated by Software |
| P5280-04MS  | BN035735.D | Nitrobenzene-d5      | yogesh    | 12/21/2024<br>1:14:15 AM  | mohammad      | 12/24/2024<br>11:31:00 PM | Peak Integrated by Software |
| P5280-05MSD | BN035736.D | Benzo(k)fluoranthene | yogesh    | 12/21/2024<br>1:14:25 AM  | mohammad      | 12/24/2024<br>11:31:00 PM | Peak Integrated by Software |
| P5280-05MSD | BN035736.D | Nitrobenzene-d5      | yogesh    | 12/21/2024<br>1:14:25 AM  | mohammad      | 12/24/2024<br>11:31:00 PM | Peak Integrated by Software |
| SSTDCCC0.4  | BN035747.D | Benzo(k)fluoranthene | Jagrut    | 12/23/2024<br>10:45:30 AM | mohammad      | 12/24/2024<br>11:31:00 PM | Peak Integrated by Software |
| SSTDCCC0.4  | BN035747.D | Nitrobenzene-d5      | Jagrut    | 12/23/2024<br>10:45:30 AM | mohammad      | 12/24/2024<br>11:31:00 PM | Peak Integrated by Software |
| SSTDCCC0.4  | BN035749.D | Benzo(k)fluoranthene | Jagrut    | 12/23/2024<br>10:45:33 AM | mohammad      | 12/24/2024<br>11:31:00 PM | Peak Integrated by Software |

## Manual Integration Report

|           |          |            |       |
|-----------|----------|------------|-------|
| Sequence: | BN121924 | Instrument | BNA_n |
|-----------|----------|------------|-------|

| Sample ID  | File ID    | Parameter               | Review By | Review On                 | Supervised By | Supervised On             | Reason                      |
|------------|------------|-------------------------|-----------|---------------------------|---------------|---------------------------|-----------------------------|
| SSTDCCC0.4 | BN035749.D | bis(2-Chloroethyl)ether | Jagrut    | 12/23/2024<br>10:45:33 AM | mohammad      | 12/24/2024<br>11:31:00 PM | Peak Integrated by Software |
| SSTDCCC0.4 | BN035749.D | Nitrobenzene-d5         | Jagrut    | 12/23/2024<br>10:45:33 AM | mohammad      | 12/24/2024<br>11:31:00 PM | Peak Integrated by Software |
| P5284-02   | BN035762.D | Nitrobenzene-d5         | Jagrut    | 12/23/2024<br>10:46:09 AM | mohammad      | 12/24/2024<br>11:31:00 PM | Peak Integrated by Software |
| P5284-03   | BN035763.D | Nitrobenzene-d5         | Jagrut    | 12/23/2024<br>10:46:11 AM | mohammad      | 12/24/2024<br>11:31:00 PM | Peak Integrated by Software |
| SSTDCCC0.4 | BN035765.D | Benzo(k)fluoranthene    | Jagrut    | 12/23/2024<br>10:46:17 AM | mohammad      | 12/24/2024<br>11:31:00 PM | Peak Integrated by Software |
| SSTDCCC0.4 | BN035765.D | Nitrobenzene-d5         | Jagrut    | 12/23/2024<br>10:46:17 AM | mohammad      | 12/24/2024<br>11:31:00 PM | Peak Integrated by Software |
| SSTDCCC0.4 | BN035767.D | Benzo(k)fluoranthene    | Jagrut    | 12/23/2024<br>10:46:19 AM | mohammad      | 12/24/2024<br>11:31:00 PM | Peak Integrated by Software |
| SSTDCCC0.4 | BN035767.D | Nitrobenzene-d5         | Jagrut    | 12/23/2024<br>10:46:19 AM | mohammad      | 12/24/2024<br>11:31:00 PM | Peak Integrated by Software |

## Manual Integration Report

|           |          |            |       |
|-----------|----------|------------|-------|
| Sequence: | BN122324 | Instrument | BNA_n |
|-----------|----------|------------|-------|

| Sample ID  | File ID    | Parameter            | Review By | Review On                 | Supervised By | Supervised On            | Reason                      |
|------------|------------|----------------------|-----------|---------------------------|---------------|--------------------------|-----------------------------|
| SSTDCCC0.4 | BN035776.D | Benzo(k)fluoranthene | Yogesh    | 12/24/2024<br>8:43:17 AM  | mohammad      | 12/26/2024<br>1:14:41 AM | Peak Integrated by Software |
| SSTDCCC0.4 | BN035776.D | Nitrobenzene-d5      | Yogesh    | 12/24/2024<br>8:43:17 AM  | mohammad      | 12/26/2024<br>1:14:41 AM | Peak Integrated by Software |
| SSTDCCC0.4 | BN035792.D | Benzo(k)fluoranthene | Yogesh    | 12/24/2024<br>8:43:57 AM  | mohammad      | 12/26/2024<br>1:14:41 AM | Peak Integrated by Software |
| SSTDCCC0.4 | BN035792.D | Nitrobenzene-d5      | Yogesh    | 12/24/2024<br>8:43:57 AM  | mohammad      | 12/26/2024<br>1:14:41 AM | Peak Integrated by Software |
| SSTDCCC0.4 | BN035794.D | Benzo(k)fluoranthene | Yogesh    | 12/24/2024<br>8:44:11 AM  | mohammad      | 12/26/2024<br>1:14:41 AM | Peak Integrated by Software |
| SSTDCCC0.4 | BN035794.D | Nitrobenzene-d5      | Yogesh    | 12/24/2024<br>8:44:11 AM  | mohammad      | 12/26/2024<br>1:14:41 AM | Peak Integrated by Software |
| PB165667BL | BN035795.D | Nitrobenzene-d5      | Yogesh    | 12/24/2024<br>8:44:13 AM  | mohammad      | 12/26/2024<br>1:14:41 AM | Peak Integrated by Software |
| P5284-01   | BN035805.D | Nitrobenzene-d5      | Yogesh    | 12/24/2024<br>8:44:54 AM  | mohammad      | 12/26/2024<br>1:14:41 AM | Peak Integrated by Software |
| PB165667BS | BN035808.D | Nitrobenzene-d5      | Yogesh    | 12/24/2024<br>8:44:58 AM  | mohammad      | 12/26/2024<br>1:14:41 AM | Peak Integrated by Software |
| SSTDCCC0.4 | BN035809.D | Nitrobenzene-d5      | Yogesh    | 12/24/2024<br>8:45:00 AM  | mohammad      | 12/26/2024<br>1:14:41 AM | Peak Integrated by Software |
| SSTDCCC0.4 | BN035811.D | Benzo(k)fluoranthene | yogesh    | 12/25/2024<br>12:18:56 AM | mohammad      | 12/26/2024<br>1:14:41 AM | Peak Integrated by Software |
| SSTDCCC0.4 | BN035811.D | Nitrobenzene-d5      | yogesh    | 12/25/2024<br>12:18:56 AM | mohammad      | 12/26/2024<br>1:14:41 AM | Peak Integrated by Software |
| SSTDCCC0.4 | BN035828.D | Benzo(k)fluoranthene | yogesh    | 12/25/2024<br>12:20:29 AM | mohammad      | 12/26/2024<br>1:14:41 AM | Peak Integrated by Software |

## Manual Integration Report

|           |          |            |       |
|-----------|----------|------------|-------|
| Sequence: | BN122324 | Instrument | BNA_n |
|-----------|----------|------------|-------|

| Sample ID  | File ID    | Parameter            | Review By | Review On                 | Supervised By | Supervised On            | Reason                      |
|------------|------------|----------------------|-----------|---------------------------|---------------|--------------------------|-----------------------------|
| SSTDCCC0.4 | BN035828.D | Nitrobenzene-d5      | yogesh    | 12/25/2024<br>12:20:29 AM | mohammad      | 12/26/2024<br>1:14:41 AM | Peak Integrated by Software |
| SSTDCCC0.4 | BN035830.D | 1,4-Dioxane          | yogesh    | 12/25/2024<br>12:20:30 AM | mohammad      | 12/26/2024<br>1:14:41 AM | Peak Integrated by Software |
| SSTDCCC0.4 | BN035830.D | Benzo(k)fluoranthene | yogesh    | 12/25/2024<br>12:20:30 AM | mohammad      | 12/26/2024<br>1:14:41 AM | Peak Integrated by Software |
| SSTDCCC0.4 | BN035830.D | Fluoranthene-d10     | yogesh    | 12/25/2024<br>12:20:30 AM | mohammad      | 12/26/2024<br>1:14:41 AM | Peak Integrated by Software |
| SSTDCCC0.4 | BN035830.D | Nitrobenzene-d5      | yogesh    | 12/25/2024<br>12:20:30 AM | mohammad      | 12/26/2024<br>1:14:41 AM | Peak Integrated by Software |
| SSTDCCC0.4 | BN035843.D | Benzo(k)fluoranthene | yogesh    | 12/26/2024<br>12:22:42 AM | mohammad      | 12/26/2024<br>1:14:41 AM | Peak Integrated by Software |
| SSTDCCC0.4 | BN035843.D | Nitrobenzene-d5      | yogesh    | 12/26/2024<br>12:22:42 AM | mohammad      | 12/26/2024<br>1:14:41 AM | Peak Integrated by Software |

## Manual Integration Report

Sequence:

BN122624

Instrument

BNA\_n

| Sample ID  | File ID    | Parameter            | Review By | Review On                | Supervised By | Supervised On            | Reason                      |
|------------|------------|----------------------|-----------|--------------------------|---------------|--------------------------|-----------------------------|
| SSTDCCC0.4 | BN035845.D | Benzo(k)fluoranthene | yogesh    | 12/27/2024<br>3:53:06 AM | mohammad      | 12/27/2024<br>4:13:15 AM | Peak Integrated by Software |
| SSTDCCC0.4 | BN035845.D | Nitrobenzene-d5      | yogesh    | 12/27/2024<br>3:53:06 AM | mohammad      | 12/27/2024<br>4:13:15 AM | Peak Integrated by Software |
| P5284-01DL | BN035859.D | Nitrobenzene-d5      | yogesh    | 12/27/2024<br>3:53:41 AM | mohammad      | 12/27/2024<br>4:13:15 AM | Peak Integrated by Software |
| SSTDCCC0.4 | BN035861.D | Nitrobenzene-d5      | yogesh    | 12/27/2024<br>3:53:44 AM | mohammad      | 12/27/2024<br>4:13:15 AM | Peak Integrated by Software |



Instrument ID: **BNA\_N**

**Daily Analysis Runlog For Sequence/QC Batch ID # BN112724**

|                          |                                                  |                   |                                               |
|--------------------------|--------------------------------------------------|-------------------|-----------------------------------------------|
| Review By                | yogesh                                           | Review On         | 11/29/2024 12:48:33 AM                        |
| Supervise By             | mohammad                                         | Supervise On      | 12/3/2024 12:32:57 AM                         |
| SubDirectory             | BN112724                                         | HP Acquire Method | BNA_N, 8270_SiM HP Processing Method bn112724 |
| <b>STD. NAME</b>         | <b>STD REF.#</b>                                 |                   |                                               |
| Tune/Reschk              | SP6573                                           |                   |                                               |
| Initial Calibration Stds | SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657 |                   |                                               |
| CCC                      | SP6661                                           |                   |                                               |
| Internal Standard/PEM    | SP6527,1ul/100ul sample                          |                   |                                               |
| ICV/I.BLK                | SP6684                                           |                   |                                               |
| Surrogate Standard       |                                                  |                   |                                               |
| MS/MSD Standard          |                                                  |                   |                                               |
| LCS Standard             |                                                  |                   |                                               |

| Sr# | SampleId    | Data File Name | Date-Time         | Operator | Status |
|-----|-------------|----------------|-------------------|----------|--------|
| 1   | DFTPP       | BN035349.D     | 27 Nov 2024 14:55 | RC/JU    | Ok     |
| 2   | SSTDICC0.1  | BN035350.D     | 27 Nov 2024 15:34 | RC/JU    | Ok,M   |
| 3   | SSTDICC0.2  | BN035351.D     | 27 Nov 2024 16:10 | RC/JU    | Ok,M   |
| 4   | SSTDICCC0.4 | BN035352.D     | 27 Nov 2024 16:46 | RC/JU    | Ok,M   |
| 5   | SSTDICC0.8  | BN035353.D     | 27 Nov 2024 17:21 | RC/JU    | Ok     |
| 6   | SSTDICC1.6  | BN035354.D     | 27 Nov 2024 17:57 | RC/JU    | Ok     |
| 7   | SSTDICC3.2  | BN035355.D     | 27 Nov 2024 18:33 | RC/JU    | Ok     |
| 8   | SSTDICC5.0  | BN035356.D     | 27 Nov 2024 19:09 | RC/JU    | Ok     |
| 9   | SSTDICV0.4  | BN035357.D     | 27 Nov 2024 20:21 | RC/JU    | Ok,M   |
| 10  | PB165224BL  | BN035358.D     | 27 Nov 2024 20:57 | RC/JU    | Ok,M   |
| 11  | PB165266BL  | BN035359.D     | 27 Nov 2024 21:32 | RC/JU    | Ok,M   |
| 12  | PB165224BS  | BN035360.D     | 27 Nov 2024 22:08 | RC/JU    | Ok,M   |
| 13  | PB165224BSD | BN035361.D     | 27 Nov 2024 22:44 | RC/JU    | Ok,M   |
| 14  | P4969-02    | BN035362.D     | 27 Nov 2024 23:20 | RC/JU    | Ok,M   |
| 15  | P4969-04    | BN035363.D     | 27 Nov 2024 23:56 | RC/JU    | Ok,M   |
| 16  | P5003-02    | BN035364.D     | 28 Nov 2024 00:32 | RC/JU    | Ok,M   |
| 17  | P5003-03    | BN035365.D     | 28 Nov 2024 01:08 | RC/JU    | Ok,M   |
| 18  | SSTDCCC0.4  | BN035366.D     | 28 Nov 2024 02:20 | RC/JU    | Ok,M   |
| 19  | DFTPP       | BN035367.D     | 28 Nov 2024 03:35 | RC/JU    | Ok     |
| 20  | SSTDCCC0.4  | BN035368.D     | 28 Nov 2024 04:51 | RC/JU    | Ok,M   |
| 21  | PB165198BL  | BN035369.D     | 28 Nov 2024 05:27 | RC/JU    | Ok,M   |

Instrument ID: **BNA\_N**

**Daily Analysis Runlog For Sequence/QC Batch ID # BN112724**

| Review By                | yogesh                                           | Review On         | 11/29/2024 12:48:33 AM                        |
|--------------------------|--------------------------------------------------|-------------------|-----------------------------------------------|
| Supervise By             | mohammad                                         | Supervise On      | 12/3/2024 12:32:57 AM                         |
| SubDirectory             | BN112724                                         | HP Acquire Method | BNA_N, 8270_SiM HP Processing Method bn112724 |
| STD. NAME                | STD REF.#                                        |                   |                                               |
| Tune/Reschk              | SP6573                                           |                   |                                               |
| Initial Calibration Stds | SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657 |                   |                                               |
| CCC                      | SP6661                                           |                   |                                               |
| Internal Standard/PEM    | SP6527,1ul/100ul sample                          |                   |                                               |
| ICV/I.BLK                | SP6684                                           |                   |                                               |
| Surrogate Standard       |                                                  |                   |                                               |
| MS/MSD Standard          |                                                  |                   |                                               |
| LCS Standard             |                                                  |                   |                                               |

|    |             |            |                   |       |      |
|----|-------------|------------|-------------------|-------|------|
| 22 | PB165198BS  | BN035370.D | 28 Nov 2024 06:03 | RC/JU | Ok,M |
| 23 | PB165198BSD | BN035371.D | 28 Nov 2024 06:39 | RC/JU | Ok,M |
| 24 | PB165266BS  | BN035372.D | 28 Nov 2024 07:15 | RC/JU | Ok,M |
| 25 | PB165266BSD | BN035373.D | 28 Nov 2024 07:50 | RC/JU | Ok,M |
| 26 | P4959-01    | BN035374.D | 28 Nov 2024 08:26 | RC/JU | Ok,M |
| 27 | SSTDCCC0.4  | BN035375.D | 28 Nov 2024 09:02 | RC/JU | Ok,M |

M : Manual Integration

Instrument ID: **BNA\_N**

**Daily Analysis Runlog For Sequence/QC Batch ID # BN121924**

| Review By                | yogesh   | Review On                                        | 12/21/2024 1:06:44 AM  |                      |          |
|--------------------------|----------|--------------------------------------------------|------------------------|----------------------|----------|
| Supervise By             | mohammad | Supervise On                                     | 12/24/2024 11:31:00 PM |                      |          |
| SubDirectory             | BN121924 | HP Acquire Method                                | BNA_N                  | HP Processing Method | bn112724 |
| STD. NAME                |          | STD REF.#                                        |                        |                      |          |
| Tune/Reschk              |          | SP6573                                           |                        |                      |          |
| Initial Calibration Stds |          | SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657 |                        |                      |          |
| CCC                      |          | SP6661                                           |                        |                      |          |
| Internal Standard/PEM    |          | SP6527,1ul/100ul sample                          |                        |                      |          |
| ICV/I.BLK                |          | SP6684                                           |                        |                      |          |
| Surrogate Standard       |          |                                                  |                        |                      |          |
| MS/MSD Standard          |          |                                                  |                        |                      |          |
| LCS Standard             |          |                                                  |                        |                      |          |

| Sr# | SampleId   | Data File Name | Date-Time         | Operator | Status   |
|-----|------------|----------------|-------------------|----------|----------|
| 1   | DFTPP      | BN035711.D     | 19 Dec 2024 18:44 | RC/JU    | Ok       |
| 2   | SSTDCCC0.4 | BN035712.D     | 19 Dec 2024 19:23 | RC/JU    | Ok,M     |
| 3   | PB165596BL | BN035713.D     | 19 Dec 2024 20:35 | RC/JU    | Ok,M     |
| 4   | P5261-01   | BN035714.D     | 19 Dec 2024 21:11 | RC/JU    | Ok,M     |
| 5   | P5261-02   | BN035715.D     | 19 Dec 2024 21:47 | RC/JU    | Ok,M     |
| 6   | P5261-03   | BN035716.D     | 19 Dec 2024 22:23 | RC/JU    | Ok,M     |
| 7   | P5261-04   | BN035717.D     | 19 Dec 2024 22:58 | RC/JU    | Dilution |
| 8   | P5261-05   | BN035718.D     | 19 Dec 2024 23:34 | RC/JU    | Ok,M     |
| 9   | P5261-06   | BN035719.D     | 20 Dec 2024 00:10 | RC/JU    | Ok,M     |
| 10  | P5261-07   | BN035720.D     | 20 Dec 2024 00:46 | RC/JU    | Ok,M     |
| 11  | P5261-08   | BN035721.D     | 20 Dec 2024 01:22 | RC/JU    | Ok,M     |
| 12  | P5261-09   | BN035722.D     | 20 Dec 2024 01:58 | RC/JU    | Dilution |
| 13  | P5261-10   | BN035723.D     | 20 Dec 2024 02:34 | RC/JU    | Ok,M     |
| 14  | P5261-11   | BN035724.D     | 20 Dec 2024 03:10 | RC/JU    | Ok,M     |
| 15  | P5261-16   | BN035725.D     | 20 Dec 2024 03:46 | RC/JU    | Ok,M     |
| 16  | P5261-15   | BN035726.D     | 20 Dec 2024 04:22 | RC/JU    | Dilution |
| 17  | P5261-17   | BN035727.D     | 20 Dec 2024 04:58 | RC/JU    | Ok,M     |
| 18  | PB165596BS | BN035728.D     | 20 Dec 2024 05:34 | RC/JU    | Ok,M     |
| 19  | SSTDCCC0.4 | BN035729.D     | 20 Dec 2024 06:10 | RC/JU    | Ok,M     |
| 20  | DFTPP      | BN035730.D     | 20 Dec 2024 07:25 | RC/JU    | Ok       |
| 21  | SSTDCCC0.4 | BN035731.D     | 20 Dec 2024 08:04 | RC/JU    | Ok,M     |

Instrument ID: **BNA\_N**

**Daily Analysis Runlog For Sequence/QC Batch ID # BN121924**

| Review By                | yogesh   | Review On                                        | 12/21/2024 1:06:44 AM  |                      |          |
|--------------------------|----------|--------------------------------------------------|------------------------|----------------------|----------|
| Supervise By             | mohammad | Supervise On                                     | 12/24/2024 11:31:00 PM |                      |          |
| SubDirectory             | BN121924 | HP Acquire Method                                | BNA_N                  | HP Processing Method | bn112724 |
| STD. NAME                |          | STD REF.#                                        |                        |                      |          |
| Tune/Reschk              |          | SP6573                                           |                        |                      |          |
| Initial Calibration Stds |          | SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657 |                        |                      |          |
| CCC                      |          | SP6661                                           |                        |                      |          |
| Internal Standard/PEM    |          | SP6527,1ul/100ul sample                          |                        |                      |          |
| ICV/I.BLK                |          | SP6684                                           |                        |                      |          |
| Surrogate Standard       |          |                                                  |                        |                      |          |
| MS/MSD Standard          |          |                                                  |                        |                      |          |
| LCS Standard             |          |                                                  |                        |                      |          |

|    |             |            |                   |       |          |
|----|-------------|------------|-------------------|-------|----------|
| 22 | PB165667BL  | BN035732.D | 20 Dec 2024 08:40 | RC/JU | Ok,M     |
| 23 | P5280-03    | BN035733.D | 20 Dec 2024 09:16 | RC/JU | Not Ok   |
| 24 | P5261-12    | BN035734.D | 20 Dec 2024 10:29 | RC/JU | Ok,M     |
| 25 | P5280-04MS  | BN035735.D | 20 Dec 2024 11:05 | RC/JU | Ok,M     |
| 26 | P5280-05MSD | BN035736.D | 20 Dec 2024 11:41 | RC/JU | Ok,M     |
| 27 | P5261-13MS  | BN035737.D | 20 Dec 2024 12:17 | RC/JU | Ok,M     |
| 28 | P5261-14MSD | BN035738.D | 20 Dec 2024 12:53 | RC/JU | Ok,M     |
| 29 | P5261-18    | BN035739.D | 20 Dec 2024 13:29 | RC/JU | Ok,M     |
| 30 | P5261-19    | BN035740.D | 20 Dec 2024 14:05 | RC/JU | Dilution |
| 31 | P5261-20    | BN035741.D | 20 Dec 2024 14:41 | RC/JU | Ok,M     |
| 32 | P5281-01    | BN035742.D | 20 Dec 2024 15:18 | RC/JU | Ok,M     |
| 33 | P5317-01    | BN035743.D | 20 Dec 2024 15:54 | RC/JU | Ok,M     |
| 34 | P5317-02    | BN035744.D | 20 Dec 2024 16:30 | RC/JU | Ok,M     |
| 35 | P5317-03    | BN035745.D | 20 Dec 2024 17:06 | RC/JU | Ok,M     |
| 36 | P5317-04    | BN035746.D | 20 Dec 2024 17:42 | RC/JU | Ok,M     |
| 37 | SSTDCCC0.4  | BN035747.D | 20 Dec 2024 18:18 | RC/JU | Ok,M     |
| 38 | DFTPP       | BN035748.D | 20 Dec 2024 18:54 | RC/JU | Ok       |
| 39 | SSTDCCC0.4  | BN035749.D | 20 Dec 2024 19:33 | RC/JU | Ok,M     |
| 40 | PB165723BL  | BN035750.D | 20 Dec 2024 20:09 | RC/JU | Ok,M     |
| 41 | P5317-05    | BN035751.D | 20 Dec 2024 20:45 | RC/JU | Ok,M     |
| 42 | P5261-09DL  | BN035752.D | 20 Dec 2024 21:21 | RC/JU | Ok,M     |
| 43 | P5261-15DL  | BN035753.D | 20 Dec 2024 21:57 | RC/JU | Ok,M     |
| 44 | P5261-04DL  | BN035754.D | 20 Dec 2024 22:33 | RC/JU | Ok,M     |

Instrument ID: **BNA\_N**

**Daily Analysis Runlog For Sequence/QC Batch ID # BN121924**

| Review By                | yogesh   | Review On                                        | 12/21/2024 1:06:44 AM  |                      |          |
|--------------------------|----------|--------------------------------------------------|------------------------|----------------------|----------|
| Supervise By             | mohammad | Supervise On                                     | 12/24/2024 11:31:00 PM |                      |          |
| SubDirectory             | BN121924 | HP Acquire Method                                | BNA_N                  | HP Processing Method | bn112724 |
| STD. NAME                |          | STD REF.#                                        |                        |                      |          |
| Tune/Reschk              |          | SP6573                                           |                        |                      |          |
| Initial Calibration Stds |          | SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657 |                        |                      |          |
| CCC                      |          | SP6661                                           |                        |                      |          |
| Internal Standard/PEM    |          | SP6527,1ul/100ul sample                          |                        |                      |          |
| ICV/I.BLK                |          | SP6684                                           |                        |                      |          |
| Surrogate Standard       |          |                                                  |                        |                      |          |
| MS/MSD Standard          |          |                                                  |                        |                      |          |
| LCS Standard             |          |                                                  |                        |                      |          |

|    |            |            |                   |       |        |
|----|------------|------------|-------------------|-------|--------|
| 45 | P5317-09   | BN035755.D | 20 Dec 2024 23:09 | RC/JU | Ok,M   |
| 46 | P5317-10   | BN035756.D | 20 Dec 2024 23:45 | RC/JU | Ok,M   |
| 47 | P5317-11   | BN035757.D | 21 Dec 2024 00:21 | RC/JU | Ok,M   |
| 48 | P5317-12   | BN035758.D | 21 Dec 2024 00:57 | RC/JU | Ok,M   |
| 49 | P5317-08   | BN035759.D | 21 Dec 2024 01:34 | RC/JU | Ok,M   |
| 50 | P5317-13   | BN035760.D | 21 Dec 2024 02:10 | RC/JU | Ok,M   |
| 51 | P5317-14   | BN035761.D | 21 Dec 2024 02:46 | RC/JU | Ok,M   |
| 52 | P5284-02   | BN035762.D | 21 Dec 2024 03:22 | RC/JU | Ok,M   |
| 53 | P5284-03   | BN035763.D | 21 Dec 2024 03:58 | RC/JU | Ok,M   |
| 54 | PB165724BS | BN035764.D | 21 Dec 2024 04:34 | RC/JU | Ok,M   |
| 55 | SSTDCCC0.4 | BN035765.D | 21 Dec 2024 05:10 | RC/JU | Ok,M   |
| 56 | DFTPP      | BN035766.D | 21 Dec 2024 05:46 | RC/JU | Ok     |
| 57 | SSTDCCC0.4 | BN035767.D | 21 Dec 2024 06:25 | RC/JU | Ok,M   |
| 58 | PB165596BL | BN035768.D | 21 Dec 2024 07:01 | RC/JU | Not Ok |
| 59 | P5281-04   | BN035769.D | 21 Dec 2024 07:37 | RC/JU | Not Ok |
| 60 | P5317-15   | BN035770.D | 21 Dec 2024 08:13 | RC/JU | Not Ok |
| 61 | P5317-16   | BN035771.D | 21 Dec 2024 08:49 | RC/JU | Not Ok |
| 62 | P5317-17   | BN035772.D | 21 Dec 2024 09:25 | RC/JU | Not Ok |
| 63 | P5317-18   | BN035773.D | 21 Dec 2024 10:01 | RC/JU | Not Ok |
| 64 | P5317-19MS | BN035774.D | 21 Dec 2024 10:37 | RC/JU | Not Ok |

M : Manual Integration

Instrument ID: **BNA\_N**

**Daily Analysis Runlog For Sequence/QC Batch ID # BN122324**

|                          |                                                  |                   |                                               |
|--------------------------|--------------------------------------------------|-------------------|-----------------------------------------------|
| Review By                | Yogesh                                           | Review On         | 12/24/2024 8:45:14 AM                         |
| Supervise By             | mohammad                                         | Supervise On      | 12/26/2024 1:14:41 AM                         |
| SubDirectory             | BN122324                                         | HP Acquire Method | BNA_N, 8270_SiM HP Processing Method bn112724 |
| <b>STD. NAME</b>         | <b>STD REF.#</b>                                 |                   |                                               |
| Tune/Reschk              | SP6573                                           |                   |                                               |
| Initial Calibration Stds | SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657 |                   |                                               |
| CCC                      | SP6661                                           |                   |                                               |
| Internal Standard/PEM    | SP6682,1ul/100ul sample                          |                   |                                               |
| ICV/I.BLK                | SP6684                                           |                   |                                               |
| Surrogate Standard       |                                                  |                   |                                               |
| MS/MSD Standard          |                                                  |                   |                                               |
| LCS Standard             |                                                  |                   |                                               |

| Sr# | SampleId    | Data File Name | Date-Time         | Operator | Status   |
|-----|-------------|----------------|-------------------|----------|----------|
| 1   | DFTPP       | BN035775.D     | 23 Dec 2024 09:43 | RC/JU    | Ok       |
| 2   | SSTDCCC0.4  | BN035776.D     | 23 Dec 2024 10:22 | RC/JU    | Ok,M     |
| 3   | PB165596BL  | BN035777.D     | 23 Dec 2024 10:57 | RC/JU    | Not Ok   |
| 4   | P5281-04    | BN035778.D     | 23 Dec 2024 11:32 | RC/JU    | Dilution |
| 5   | P5317-15    | BN035779.D     | 23 Dec 2024 12:08 | RC/JU    | Ok,M     |
| 6   | P5317-16    | BN035780.D     | 23 Dec 2024 12:43 | RC/JU    | Ok,M     |
| 7   | P5317-17    | BN035781.D     | 23 Dec 2024 13:19 | RC/JU    | Ok,M     |
| 8   | P5317-18    | BN035782.D     | 23 Dec 2024 13:54 | RC/JU    | Ok,M     |
| 9   | P5317-19MS  | BN035783.D     | 23 Dec 2024 14:30 | RC/JU    | Ok,M     |
| 10  | P5317-20MSD | BN035784.D     | 23 Dec 2024 15:05 | RC/JU    | Ok,M     |
| 11  | P5314-02    | BN035785.D     | 23 Dec 2024 15:41 | RC/JU    | Ok,M     |
| 12  | P5314-04    | BN035786.D     | 23 Dec 2024 16:17 | RC/JU    | Ok,M     |
| 13  | P5317-21    | BN035787.D     | 23 Dec 2024 16:52 | RC/JU    | Dilution |
| 14  | P5317-22    | BN035788.D     | 23 Dec 2024 17:28 | RC/JU    | Ok,M     |
| 15  | P5317-24    | BN035789.D     | 23 Dec 2024 18:04 | RC/JU    | Ok,M     |
| 16  | P5317-25    | BN035790.D     | 23 Dec 2024 18:39 | RC/JU    | Ok,M     |
| 17  | P5281-02    | BN035791.D     | 23 Dec 2024 19:15 | RC/JU    | Ok,M     |
| 18  | SSTDCCC0.4  | BN035792.D     | 23 Dec 2024 19:51 | RC/JU    | Ok,M     |
| 19  | DFTPP       | BN035793.D     | 23 Dec 2024 20:26 | RC/JU    | Ok       |
| 20  | SSTDCCC0.4  | BN035794.D     | 23 Dec 2024 22:16 | RC/JU    | Ok,M     |
| 21  | PB165667BL  | BN035795.D     | 23 Dec 2024 22:52 | RC/JU    | Ok,M     |

Instrument ID: **BNA\_N**

**Daily Analysis Runlog For Sequence/QC Batch ID # BN122324**

| Review By                | Yogesh                                           | Review On         | 12/24/2024 8:45:14 AM                         |
|--------------------------|--------------------------------------------------|-------------------|-----------------------------------------------|
| Supervise By             | mohammad                                         | Supervise On      | 12/26/2024 1:14:41 AM                         |
| SubDirectory             | BN122324                                         | HP Acquire Method | BNA_N, 8270_SiM HP Processing Method bn112724 |
| STD. NAME                | STD REF.#                                        |                   |                                               |
| Tune/Reschk              | SP6573                                           |                   |                                               |
| Initial Calibration Stds | SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657 |                   |                                               |
| CCC                      | SP6661                                           |                   |                                               |
| Internal Standard/PEM    | SP6682,1ul/100ul sample                          |                   |                                               |
| ICV/I.BLK                | SP6684                                           |                   |                                               |
| Surrogate Standard       |                                                  |                   |                                               |
| MS/MSD Standard          |                                                  |                   |                                               |
| LCS Standard             |                                                  |                   |                                               |

|    |            |            |                   |       |          |
|----|------------|------------|-------------------|-------|----------|
| 22 | P5281-03   | BN035796.D | 23 Dec 2024 23:27 | RC/JU | Ok,M     |
| 23 | P5281-05   | BN035797.D | 24 Dec 2024 00:03 | RC/JU | Ok,M     |
| 24 | P5281-06   | BN035798.D | 24 Dec 2024 00:38 | RC/JU | Dilution |
| 25 | P5281-07   | BN035799.D | 24 Dec 2024 01:14 | RC/JU | Dilution |
| 26 | P5281-08   | BN035800.D | 24 Dec 2024 01:49 | RC/JU | Ok,M     |
| 27 | P5282-01   | BN035801.D | 24 Dec 2024 02:25 | RC/JU | Dilution |
| 28 | P5282-02   | BN035802.D | 24 Dec 2024 03:00 | RC/JU | Ok,M     |
| 29 | P5282-03   | BN035803.D | 24 Dec 2024 03:36 | RC/JU | Ok,M     |
| 30 | P5282-04   | BN035804.D | 24 Dec 2024 04:12 | RC/JU | Ok,M     |
| 31 | P5284-01   | BN035805.D | 24 Dec 2024 04:47 | RC/JU | Dilution |
| 32 | P5317-07   | BN035806.D | 24 Dec 2024 05:23 | RC/JU | Ok,M     |
| 33 | P5317-06   | BN035807.D | 24 Dec 2024 05:58 | RC/JU | Ok,M     |
| 34 | PB165667BS | BN035808.D | 24 Dec 2024 06:34 | RC/JU | Ok,M     |
| 35 | SSTDCCC0.4 | BN035809.D | 24 Dec 2024 07:09 | RC/JU | Ok,M     |
| 36 | DFTPP      | BN035810.D | 24 Dec 2024 07:45 | RC/JU | Ok       |
| 37 | SSTDCCC0.4 | BN035811.D | 24 Dec 2024 08:59 | RC/JU | Ok,M     |
| 38 | PB165828BL | BN035812.D | 24 Dec 2024 09:35 | RC/JU | Ok,M     |
| 39 | P5281-04DL | BN035813.D | 24 Dec 2024 10:10 | RC/JU | Ok,M     |
| 40 | P5261-19DL | BN035814.D | 24 Dec 2024 10:46 | RC/JU | Not Ok   |
| 41 | P5376-02   | BN035815.D | 24 Dec 2024 11:21 | RC/JU | Ok,M     |
| 42 | P5376-03   | BN035816.D | 24 Dec 2024 11:57 | RC/JU | Dilution |
| 43 | P5376-04   | BN035817.D | 24 Dec 2024 12:33 | RC/JU | Ok,M     |
| 44 | P5376-05   | BN035818.D | 24 Dec 2024 13:08 | RC/JU | Ok,M     |

Instrument ID: **BNA\_N**

**Daily Analysis Runlog For Sequence/QC Batch ID # BN122324**

| Review By                | Yogesh                                           | Review On         | 12/24/2024 8:45:14 AM                         |
|--------------------------|--------------------------------------------------|-------------------|-----------------------------------------------|
| Supervise By             | mohammad                                         | Supervise On      | 12/26/2024 1:14:41 AM                         |
| SubDirectory             | BN122324                                         | HP Acquire Method | BNA_N, 8270_SiM HP Processing Method bn112724 |
| STD. NAME                | STD REF.#                                        |                   |                                               |
| Tune/Reschk              | SP6573                                           |                   |                                               |
| Initial Calibration Stds | SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657 |                   |                                               |
| CCC                      | SP6661                                           |                   |                                               |
| Internal Standard/PEM    | SP6682,1ul/100ul sample                          |                   |                                               |
| ICV/I.BLK                | SP6684                                           |                   |                                               |
| Surrogate Standard       |                                                  |                   |                                               |
| MS/MSD Standard          |                                                  |                   |                                               |
| LCS Standard             |                                                  |                   |                                               |

|    |             |            |                   |       |        |
|----|-------------|------------|-------------------|-------|--------|
| 45 | P5376-06    | BN035819.D | 24 Dec 2024 13:44 | RC/JU | Ok,M   |
| 46 | P5376-07    | BN035820.D | 24 Dec 2024 14:19 | RC/JU | Ok,M   |
| 47 | P5376-08MS  | BN035821.D | 24 Dec 2024 14:55 | RC/JU | Ok,M   |
| 48 | P5376-09MSD | BN035822.D | 24 Dec 2024 15:31 | RC/JU | Ok,M   |
| 49 | P5376-10    | BN035823.D | 24 Dec 2024 16:06 | RC/JU | Ok,M   |
| 50 | P5376-11    | BN035824.D | 24 Dec 2024 16:42 | RC/JU | Ok,M   |
| 51 | P5376-12    | BN035825.D | 24 Dec 2024 17:18 | RC/JU | Ok,M   |
| 52 | P5376-13    | BN035826.D | 24 Dec 2024 17:53 | RC/JU | Ok,M   |
| 53 | P5376-14    | BN035827.D | 24 Dec 2024 18:29 | RC/JU | Ok,M   |
| 54 | SSTDCCC0.4  | BN035828.D | 24 Dec 2024 19:05 | RC/JU | Ok,M   |
| 55 | DFTPP       | BN035829.D | 24 Dec 2024 19:41 | RC/JU | Ok     |
| 56 | SSTDCCC0.4  | BN035830.D | 24 Dec 2024 20:55 | RC/JU | Ok,M   |
| 57 | PB165596BL  | BN035831.D | 24 Dec 2024 22:07 | RC/JU | Ok,M   |
| 58 | P5376-15    | BN035832.D | 24 Dec 2024 22:42 | RC/JU | ReRun  |
| 59 | P5376-16    | BN035833.D | 24 Dec 2024 23:18 | RC/JU | Ok,M   |
| 60 | P5376-17    | BN035834.D | 24 Dec 2024 23:53 | RC/JU | Ok,M   |
| 61 | P5376-18    | BN035835.D | 25 Dec 2024 00:29 | RC/JU | Ok,M   |
| 62 | P5376-19    | BN035836.D | 25 Dec 2024 01:05 | RC/JU | ReRun  |
| 63 | P5376-20    | BN035837.D | 25 Dec 2024 01:40 | RC/JU | Ok,M   |
| 64 | P5376-01    | BN035838.D | 25 Dec 2024 02:16 | RC/JU | ReRun  |
| 65 | PB165723BS  | BN035839.D | 25 Dec 2024 02:51 | RC/JU | Not Ok |
| 66 | PB165724BSD | BN035840.D | 25 Dec 2024 03:27 | RC/JU | Not Ok |
| 67 | PB165828BS  | BN035841.D | 25 Dec 2024 04:03 | RC/JU | Not Ok |



Instrument ID: **BNA\_N**

**Daily Analysis Runlog For Sequence/QC Batch ID # BN122324**

| Review By                | Yogesh                                           | Review On         | 12/24/2024 8:45:14 AM                         |
|--------------------------|--------------------------------------------------|-------------------|-----------------------------------------------|
| Supervise By             | mohammad                                         | Supervise On      | 12/26/2024 1:14:41 AM                         |
| SubDirectory             | BN122324                                         | HP Acquire Method | BNA_N, 8270_SiM HP Processing Method bn112724 |
| STD. NAME                | STD REF.#                                        |                   |                                               |
| Tune/Reschk              | SP6573                                           |                   |                                               |
| Initial Calibration Stds | SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657 |                   |                                               |
| CCC                      | SP6661                                           |                   |                                               |
| Internal Standard/PEM    | SP6682,1ul/100ul sample                          |                   |                                               |
| ICV/I.BLK                | SP6684                                           |                   |                                               |
| Surrogate Standard       |                                                  |                   |                                               |
| MS/MSD Standard          |                                                  |                   |                                               |
| LCS Standard             |                                                  |                   |                                               |

|    |            |            |                   |       |       |
|----|------------|------------|-------------------|-------|-------|
| 68 | P5374-03   | BN035842.D | 25 Dec 2024 04:38 | RC/JU | ReRun |
| 69 | SSTDCCC0.4 | BN035843.D | 25 Dec 2024 05:14 | RC/JU | Ok,M  |

M : Manual Integration

Instrument ID: **BNA\_N**

**Daily Analysis Runlog For Sequence/QC Batch ID # BN122624**

|                          |                                                  |                   |                                               |
|--------------------------|--------------------------------------------------|-------------------|-----------------------------------------------|
| Review By                | yogesh                                           | Review On         | 12/27/2024 3:53:55 AM                         |
| Supervise By             | mohammad                                         | Supervise On      | 12/27/2024 4:13:15 AM                         |
| SubDirectory             | BN122624                                         | HP Acquire Method | BNA_N, 8270_SiM HP Processing Method bn112724 |
| <b>STD. NAME</b>         | <b>STD REF.#</b>                                 |                   |                                               |
| Tune/Reschk              | SP6573                                           |                   |                                               |
| Initial Calibration Stds | SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657 |                   |                                               |
| CCC                      | SP6661                                           |                   |                                               |
| Internal Standard/PEM    | SP6682,1ul/100ul sample                          |                   |                                               |
| ICV/I.BLK                | SP6684                                           |                   |                                               |
| Surrogate Standard       |                                                  |                   |                                               |
| MS/MSD Standard          |                                                  |                   |                                               |
| LCS Standard             |                                                  |                   |                                               |

| Sr# | SampleId    | Data File Name | Date-Time         | Operator | Status |
|-----|-------------|----------------|-------------------|----------|--------|
| 1   | DFTPP       | BN035844.D     | 26 Dec 2024 09:19 | RC/JU    | Ok     |
| 2   | SSTDCCC0.4  | BN035845.D     | 26 Dec 2024 09:58 | RC/JU    | Ok,M   |
| 3   | PB165828BL  | BN035846.D     | 26 Dec 2024 10:35 | RC/JU    | Ok,M   |
| 4   | P5376-15    | BN035847.D     | 26 Dec 2024 11:20 | RC/JU    | Ok,M   |
| 5   | P5376-19    | BN035848.D     | 26 Dec 2024 11:56 | RC/JU    | Ok,M   |
| 6   | P5376-01    | BN035849.D     | 26 Dec 2024 12:31 | RC/JU    | Ok,M   |
| 7   | P5374-03    | BN035850.D     | 26 Dec 2024 13:07 | RC/JU    | Ok,M   |
| 8   | PB165723BS  | BN035851.D     | 26 Dec 2024 13:43 | RC/JU    | Ok,M   |
| 9   | PB165828BS  | BN035852.D     | 26 Dec 2024 14:19 | RC/JU    | Ok,M   |
| 10  | PB165724BSD | BN035853.D     | 26 Dec 2024 14:54 | RC/JU    | Ok,M   |
| 11  | P5376-03DL  | BN035854.D     | 26 Dec 2024 15:30 | RC/JU    | Ok,M   |
| 12  | P5317-21DL  | BN035855.D     | 26 Dec 2024 16:06 | RC/JU    | Ok,M   |
| 13  | P5281-07DL  | BN035856.D     | 26 Dec 2024 16:42 | RC/JU    | Ok,M   |
| 14  | P5282-01DL  | BN035857.D     | 26 Dec 2024 17:18 | RC/JU    | Ok,M   |
| 15  | P5281-06DL  | BN035858.D     | 26 Dec 2024 17:53 | RC/JU    | Ok,M   |
| 16  | P5284-01DL  | BN035859.D     | 26 Dec 2024 18:29 | RC/JU    | Ok,M   |
| 17  | P5261-19DL  | BN035860.D     | 26 Dec 2024 19:05 | RC/JU    | Ok,M   |
| 18  | SSTDCCC0.4  | BN035861.D     | 26 Dec 2024 19:41 | RC/JU    | Ok,M   |

M : Manual Integration

Instrument ID: BNA\_N

**Daily Analysis Runlog For Sequence/QC Batch ID # BN112724**

|                          |                                                  |                   |                                           |
|--------------------------|--------------------------------------------------|-------------------|-------------------------------------------|
| Review By                | yogesh                                           | Review On         | 11/29/2024 12:48:33 AM                    |
| Supervise By             | mohammad                                         | Supervise On      | 12/3/2024 12:32:57 AM                     |
| SubDirectory             | BN112724                                         | HP Acquire Method | BNA_N, 8270_HP Processing Method bn112724 |
| <b>STD. NAME</b>         | <b>STD REF.#</b>                                 |                   |                                           |
| Tune/Reschk              | SP6573                                           |                   |                                           |
| Initial Calibration Stds | SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657 |                   |                                           |
| CCC                      | SP6661                                           |                   |                                           |
| Internal Standard/PEM    | SP6527,1ul/100ul sample                          |                   |                                           |
| ICV/I.BLK                | SP6684                                           |                   |                                           |
| Surrogate Standard       |                                                  |                   |                                           |
| MS/MSD Standard          |                                                  |                   |                                           |
| LCS Standard             |                                                  |                   |                                           |

| Sr# | SampleID    | ClientID           | Data File Name | Date-Time         | Comment                          | Operator | Status |
|-----|-------------|--------------------|----------------|-------------------|----------------------------------|----------|--------|
| 1   | DFTPP       | DFTPP              | BN035349.D     | 27 Nov 2024 14:55 |                                  | RC/JU    | Ok     |
| 2   | SSTDICC0.1  | SSTDICC0.1         | BN035350.D     | 27 Nov 2024 15:34 |                                  | RC/JU    | Ok,M   |
| 3   | SSTDICC0.2  | SSTDICC0.2         | BN035351.D     | 27 Nov 2024 16:10 |                                  | RC/JU    | Ok,M   |
| 4   | SSTDICCC0.4 | SSTDICCC0.4        | BN035352.D     | 27 Nov 2024 16:46 | This Calibration is Good For DOD | RC/JU    | Ok,M   |
| 5   | SSTDICC0.8  | SSTDICC0.8         | BN035353.D     | 27 Nov 2024 17:21 |                                  | RC/JU    | Ok     |
| 6   | SSTDICC1.6  | SSTDICC1.6         | BN035354.D     | 27 Nov 2024 17:57 |                                  | RC/JU    | Ok     |
| 7   | SSTDICC3.2  | SSTDICC3.2         | BN035355.D     | 27 Nov 2024 18:33 | Compound #20 removed from 3.2ppm | RC/JU    | Ok     |
| 8   | SSTDICC5.0  | SSTDICC5.0         | BN035356.D     | 27 Nov 2024 19:09 | Compound #20 removed from 5.0ppm | RC/JU    | Ok     |
| 9   | SSTDICV0.4  | ICVBN112724        | BN035357.D     | 27 Nov 2024 20:21 |                                  | RC/JU    | Ok,M   |
| 10  | PB165224BL  | PB165224BL         | BN035358.D     | 27 Nov 2024 20:57 |                                  | RC/JU    | Ok,M   |
| 11  | PB165266BL  | PB165266BL         | BN035359.D     | 27 Nov 2024 21:32 |                                  | RC/JU    | Ok,M   |
| 12  | PB165224BS  | PB165224BS         | BN035360.D     | 27 Nov 2024 22:08 |                                  | RC/JU    | Ok,M   |
| 13  | PB165224BSD | PB165224BSD        | BN035361.D     | 27 Nov 2024 22:44 |                                  | RC/JU    | Ok,M   |
| 14  | P4969-02    | TOWER-1            | BN035362.D     | 27 Nov 2024 23:20 |                                  | RC/JU    | Ok,M   |
| 15  | P4969-04    | TOWER-2            | BN035363.D     | 27 Nov 2024 23:56 |                                  | RC/JU    | Ok,M   |
| 16  | P5003-02    | RW-10A-HYD-2024112 | BN035364.D     | 28 Nov 2024 00:32 |                                  | RC/JU    | Ok,M   |
| 17  | P5003-03    | RW-10A-HYD-2024112 | BN035365.D     | 28 Nov 2024 01:08 |                                  | RC/JU    | Ok,M   |

Instrument ID: BNA\_N

**Daily Analysis Runlog For Sequence/QC Batch ID # BN112724**

|              |          |                   |                                           |
|--------------|----------|-------------------|-------------------------------------------|
| Review By    | yogesh   | Review On         | 11/29/2024 12:48:33 AM                    |
| Supervise By | mohammad | Supervise On      | 12/3/2024 12:32:57 AM                     |
| SubDirectory | BN112724 | HP Acquire Method | BNA_N, 8270_HP Processing Method bn112724 |

| STD. NAME                                                                                          | STD REF.#                                                  |
|----------------------------------------------------------------------------------------------------|------------------------------------------------------------|
| Tune/Reschk<br>Initial Calibration Stds                                                            | SP6573<br>SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657 |
| CCC<br>Internal Standard/PEM<br>ICV/I.BLK<br>Surrogate Standard<br>MS/MSD Standard<br>LCS Standard | SP6661<br>SP6527,1ul/100ul sample<br>SP6684                |

|    |             |                    |            |                   |  |       |      |
|----|-------------|--------------------|------------|-------------------|--|-------|------|
| 18 | SSTDCCC0.4  | SSTDCCC0.4EC       | BN035366.D | 28 Nov 2024 02:20 |  | RC/JU | Ok,M |
| 19 | DFTPP       | DFTPP              | BN035367.D | 28 Nov 2024 03:35 |  | RC/JU | Ok   |
| 20 | SSTDCCC0.4  | SSTDCCC0.4         | BN035368.D | 28 Nov 2024 04:51 |  | RC/JU | Ok,M |
| 21 | PB165198BL  | PB165198BL         | BN035369.D | 28 Nov 2024 05:27 |  | RC/JU | Ok,M |
| 22 | PB165198BS  | PB165198BS         | BN035370.D | 28 Nov 2024 06:03 |  | RC/JU | Ok,M |
| 23 | PB165198BSD | PB165198BSD        | BN035371.D | 28 Nov 2024 06:39 |  | RC/JU | Ok,M |
| 24 | PB165266BS  | PB165266BS         | BN035372.D | 28 Nov 2024 07:15 |  | RC/JU | Ok,M |
| 25 | PB165266BSD | PB165266BSD        | BN035373.D | 28 Nov 2024 07:50 |  | RC/JU | Ok,M |
| 26 | P4959-01    | RW5-SP100-20241121 | BN035374.D | 28 Nov 2024 08:26 |  | RC/JU | Ok,M |
| 27 | SSTDCCC0.4  | SSTDCCC0.4EC       | BN035375.D | 28 Nov 2024 09:02 |  | RC/JU | Ok,M |

M : Manual Integration

Instrument ID: BNA\_N

**Daily Analysis Runlog For Sequence/QC Batch ID # BN121924**

|              |          |                      |                        |
|--------------|----------|----------------------|------------------------|
| Review By    | yogesh   | Review On            | 12/21/2024 1:06:44 AM  |
| Supervise By | mohammad | Supervise On         | 12/24/2024 11:31:00 PM |
| SubDirectory | BN121924 | HP Acquire Method    | BNA_N                  |
|              |          | HP Processing Method | bn112724               |

| STD. NAME                | STD REF.#                                        |
|--------------------------|--------------------------------------------------|
| Tune/Reschk              | SP6573                                           |
| Initial Calibration Stds | SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657 |
| CCC                      | SP6661                                           |
| Internal Standard/PEM    | SP6527,1ul/100ul sample                          |
| ICV/I.BLK                | SP6684                                           |
| Surrogate Standard       |                                                  |
| MS/MSD Standard          |                                                  |
| LCS Standard             |                                                  |

| Sr# | SampleID   | ClientID             | Data File Name | Date-Time         | Comment          | Operator | Status   |
|-----|------------|----------------------|----------------|-------------------|------------------|----------|----------|
| 1   | DFTPP      | DFTPP                | BN035711.D     | 19 Dec 2024 18:44 |                  | RC/JU    | Ok       |
| 2   | SSTDCCC0.4 | SSTDCCC0.4           | BN035712.D     | 19 Dec 2024 19:23 |                  | RC/JU    | Ok,M     |
| 3   | PB165596BL | PB165596BL           | BN035713.D     | 19 Dec 2024 20:35 |                  | RC/JU    | Ok,M     |
| 4   | P5261-01   | RE122D1-20241209     | BN035714.D     | 19 Dec 2024 21:11 |                  | RC/JU    | Ok,M     |
| 5   | P5261-02   | RE122D2-20241209     | BN035715.D     | 19 Dec 2024 21:47 |                  | RC/JU    | Ok,M     |
| 6   | P5261-03   | RE122D3-20241209     | BN035716.D     | 19 Dec 2024 22:23 |                  | RC/JU    | Ok,M     |
| 7   | P5261-04   | RE103D1-20241209     | BN035717.D     | 19 Dec 2024 22:58 | Need 2X Dilution | RC/JU    | Dilution |
| 8   | P5261-05   | RE103D2-20241209     | BN035718.D     | 19 Dec 2024 23:34 |                  | RC/JU    | Ok,M     |
| 9   | P5261-06   | RE103D3-20241209     | BN035719.D     | 20 Dec 2024 00:10 |                  | RC/JU    | Ok,M     |
| 10  | P5261-07   | RE134D1-20241209     | BN035720.D     | 20 Dec 2024 00:46 |                  | RC/JU    | Ok,M     |
| 11  | P5261-08   | DUP-01-20241209      | BN035721.D     | 20 Dec 2024 01:22 |                  | RC/JU    | Ok,M     |
| 12  | P5261-09   | RE134D3-20241210     | BN035722.D     | 20 Dec 2024 01:58 | Need 2X Dilution | RC/JU    | Dilution |
| 13  | P5261-10   | RE134D4-20241210     | BN035723.D     | 20 Dec 2024 02:34 |                  | RC/JU    | Ok,M     |
| 14  | P5261-11   | GM3-RW3-MW1-20241210 | BN035724.D     | 20 Dec 2024 03:10 |                  | RC/JU    | Ok,M     |
| 15  | P5261-16   | RE125D3-20241210     | BN035725.D     | 20 Dec 2024 03:46 |                  | RC/JU    | Ok,M     |
| 16  | P5261-15   | RE125D2-20241210     | BN035726.D     | 20 Dec 2024 04:22 | Need 2X Dilution | RC/JU    | Dilution |
| 17  | P5261-17   | RE120D1-20241210     | BN035727.D     | 20 Dec 2024 04:58 |                  | RC/JU    | Ok,M     |
| 18  | PB165596BS | PB165596BS           | BN035728.D     | 20 Dec 2024 05:34 |                  | RC/JU    | Ok,M     |

Instrument ID: BNA\_N

**Daily Analysis Runlog For Sequence/QC Batch ID # BN121924**

| Review By                | yogesh                                           | Review On         | 12/21/2024 1:06:44 AM  |                      |          |
|--------------------------|--------------------------------------------------|-------------------|------------------------|----------------------|----------|
| Supervise By             | mohammad                                         | Supervise On      | 12/24/2024 11:31:00 PM |                      |          |
| SubDirectory             | BN121924                                         | HP Acquire Method | BNA_N                  | HP Processing Method | bn112724 |
| STD. NAME                | STD REF.#                                        |                   |                        |                      |          |
| Tune/Reschk              | SP6573                                           |                   |                        |                      |          |
| Initial Calibration Stds | SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657 |                   |                        |                      |          |
| CCC                      | SP6661                                           |                   |                        |                      |          |
| Internal Standard/PEM    | SP6527,1ul/100ul sample                          |                   |                        |                      |          |
| ICV/I.BLK                | SP6684                                           |                   |                        |                      |          |
| Surrogate Standard       |                                                  |                   |                        |                      |          |
| MS/MSD Standard          |                                                  |                   |                        |                      |          |
| LCS Standard             |                                                  |                   |                        |                      |          |

|    |             |                    |            |                   |                                |       |          |
|----|-------------|--------------------|------------|-------------------|--------------------------------|-------|----------|
| 19 | SSTDCCC0.4  | SSTDCCC0.4EC       | BN035729.D | 20 Dec 2024 06:10 |                                | RC/JU | Ok,M     |
| 20 | DFTPP       | DFTPP              | BN035730.D | 20 Dec 2024 07:25 |                                | RC/JU | Ok       |
| 21 | SSTDCCC0.4  | SSTDCCC0.4         | BN035731.D | 20 Dec 2024 08:04 |                                | RC/JU | Ok,M     |
| 22 | PB165667BL  | PB165667BL         | BN035732.D | 20 Dec 2024 08:40 |                                | RC/JU | Ok,M     |
| 23 | P5280-03    | BPOW6-11-20241212  | BN035733.D | 20 Dec 2024 09:16 | Test not Present on Login Page | RC/JU | Not Ok   |
| 24 | P5261-12    | RE125D1-20241210   | BN035734.D | 20 Dec 2024 10:29 |                                | RC/JU | Ok,M     |
| 25 | P5280-04MS  | BPOW6-11-20241212M | BN035735.D | 20 Dec 2024 11:05 |                                | RC/JU | Ok,M     |
| 26 | P5280-05MSD | BPOW6-11-20241212M | BN035736.D | 20 Dec 2024 11:41 |                                | RC/JU | Ok,M     |
| 27 | P5261-13MS  | RE125D1-20241210MS | BN035737.D | 20 Dec 2024 12:17 |                                | RC/JU | Ok,M     |
| 28 | P5261-14MSD | RE125D1-20241210MS | BN035738.D | 20 Dec 2024 12:53 |                                | RC/JU | Ok,M     |
| 29 | P5261-18    | RE120D2-20241210   | BN035739.D | 20 Dec 2024 13:29 |                                | RC/JU | Ok,M     |
| 30 | P5261-19    | RE120D3-20241210   | BN035740.D | 20 Dec 2024 14:05 | Need 5X Dilution               | RC/JU | Dilution |
| 31 | P5261-20    | DUP-02-20241210    | BN035741.D | 20 Dec 2024 14:41 |                                | RC/JU | Ok,M     |
| 32 | P5281-01    | RE114D1-20241212   | BN035742.D | 20 Dec 2024 15:18 |                                | RC/JU | Ok,M     |
| 33 | P5317-01    | RE114D2-20241216   | BN035743.D | 20 Dec 2024 15:54 |                                | RC/JU | Ok,M     |
| 34 | P5317-02    | RW4-20241216       | BN035744.D | 20 Dec 2024 16:30 |                                | RC/JU | Ok,M     |
| 35 | P5317-03    | TT191D1-20241216   | BN035745.D | 20 Dec 2024 17:06 |                                | RC/JU | Ok,M     |
| 36 | P5317-04    | TT191D2-20241216   | BN035746.D | 20 Dec 2024 17:42 |                                | RC/JU | Ok,M     |
| 37 | SSTDCCC0.4  | SSTDCCC0.4EC       | BN035747.D | 20 Dec 2024 18:18 |                                | RC/JU | Ok,M     |

Instrument ID: BNA\_N

**Daily Analysis Runlog For Sequence/QC Batch ID # BN121924**

| Review By                | yogesh                                           | Review On         | 12/21/2024 1:06:44 AM  |                      |          |
|--------------------------|--------------------------------------------------|-------------------|------------------------|----------------------|----------|
| Supervise By             | mohammad                                         | Supervise On      | 12/24/2024 11:31:00 PM |                      |          |
| SubDirectory             | BN121924                                         | HP Acquire Method | BNA_N                  | HP Processing Method | bn112724 |
| STD. NAME                | STD REF.#                                        |                   |                        |                      |          |
| Tune/Reschk              | SP6573                                           |                   |                        |                      |          |
| Initial Calibration Stds | SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657 |                   |                        |                      |          |
| CCC                      | SP6661                                           |                   |                        |                      |          |
| Internal Standard/PEM    | SP6527,1ul/100ul sample                          |                   |                        |                      |          |
| ICV/I.BLK                | SP6684                                           |                   |                        |                      |          |
| Surrogate Standard       |                                                  |                   |                        |                      |          |
| MS/MSD Standard          |                                                  |                   |                        |                      |          |
| LCS Standard             |                                                  |                   |                        |                      |          |

|    |            |                    |            |                   |  |       |      |
|----|------------|--------------------|------------|-------------------|--|-------|------|
| 38 | DFTPP      | DFTPP              | BN035748.D | 20 Dec 2024 18:54 |  | RC/JU | Ok   |
| 39 | SSTDCCC0.4 | SSTDCCC0.4         | BN035749.D | 20 Dec 2024 19:33 |  | RC/JU | Ok,M |
| 40 | PB165723BL | PB165723BL         | BN035750.D | 20 Dec 2024 20:09 |  | RC/JU | Ok,M |
| 41 | P5317-05   | TT163S1-20241216   | BN035751.D | 20 Dec 2024 20:45 |  | RC/JU | Ok,M |
| 42 | P5261-09DL | RE134D3-20241210DL | BN035752.D | 20 Dec 2024 21:21 |  | RC/JU | Ok,M |
| 43 | P5261-15DL | RE125D2-20241210DL | BN035753.D | 20 Dec 2024 21:57 |  | RC/JU | Ok,M |
| 44 | P5261-04DL | RE103D1-20241209DL | BN035754.D | 20 Dec 2024 22:33 |  | RC/JU | Ok,M |
| 45 | P5317-09   | TT158S1-20241217   | BN035755.D | 20 Dec 2024 23:09 |  | RC/JU | Ok,M |
| 46 | P5317-10   | TT158I1-20241217   | BN035756.D | 20 Dec 2024 23:45 |  | RC/JU | Ok,M |
| 47 | P5317-11   | DUP-05-20241217    | BN035757.D | 21 Dec 2024 00:21 |  | RC/JU | Ok,M |
| 48 | P5317-12   | TT172S1-20241217   | BN035758.D | 21 Dec 2024 00:57 |  | RC/JU | Ok,M |
| 49 | P5317-08   | RW8-MW01D1-202412  | BN035759.D | 21 Dec 2024 01:34 |  | RC/JU | Ok,M |
| 50 | P5317-13   | RW9-MW01S-2024121  | BN035760.D | 21 Dec 2024 02:10 |  | RC/JU | Ok,M |
| 51 | P5317-14   | RW9-MW01D1-202412  | BN035761.D | 21 Dec 2024 02:46 |  | RC/JU | Ok,M |
| 52 | P5284-02   | RW5-SP201-20241212 | BN035762.D | 21 Dec 2024 03:22 |  | RC/JU | Ok,M |
| 53 | P5284-03   | RW5-SP303-20241212 | BN035763.D | 21 Dec 2024 03:58 |  | RC/JU | Ok,M |
| 54 | PB165724BS | PB165724BS         | BN035764.D | 21 Dec 2024 04:34 |  | RC/JU | Ok,M |
| 55 | SSTDCCC0.4 | SSTDCCC0.4EC       | BN035765.D | 21 Dec 2024 05:10 |  | RC/JU | Ok,M |
| 56 | DFTPP      | DFTPP              | BN035766.D | 21 Dec 2024 05:46 |  | RC/JU | Ok   |

Instrument ID: BNA\_N

**Daily Analysis Runlog For Sequence/QC Batch ID # BN121924**

|                          |          |                                                  |                        |                      |          |
|--------------------------|----------|--------------------------------------------------|------------------------|----------------------|----------|
| Review By                | yogesh   | Review On                                        | 12/21/2024 1:06:44 AM  |                      |          |
| Supervise By             | mohammad | Supervise On                                     | 12/24/2024 11:31:00 PM |                      |          |
| SubDirectory             | BN121924 | HP Acquire Method                                | BNA_N                  | HP Processing Method | bn112724 |
| STD. NAME                |          | STD REF.#                                        |                        |                      |          |
| Tune/Reschk              |          | SP6573                                           |                        |                      |          |
| Initial Calibration Stds |          | SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657 |                        |                      |          |
| CCC                      |          | SP6661                                           |                        |                      |          |
| Internal Standard/PEM    |          | SP6527,1ul/100ul sample                          |                        |                      |          |
| ICV/I.BLK                |          | SP6684                                           |                        |                      |          |
| Surrogate Standard       |          |                                                  |                        |                      |          |
| MS/MSD Standard          |          |                                                  |                        |                      |          |
| LCS Standard             |          |                                                  |                        |                      |          |

|    |            |                    |            |                   |                                         |       |        |
|----|------------|--------------------|------------|-------------------|-----------------------------------------|-------|--------|
| 57 | SSTDCCC0.4 | SSTDCCC0.4         | BN035767.D | 21 Dec 2024 06:25 |                                         | RC/JU | Ok,M   |
| 58 | PB165596BL | PB165596BL         | BN035768.D | 21 Dec 2024 07:01 | END CCC Missing                         | RC/JU | Not Ok |
| 59 | P5281-04   | TT101D2-20241212   | BN035769.D | 21 Dec 2024 07:37 | END CCC Missing, Need 2X Dilution       | RC/JU | Not Ok |
| 60 | P5317-15   | RW9-MW01D2-202412  | BN035770.D | 21 Dec 2024 08:13 | END CCC Missing                         | RC/JU | Not Ok |
| 61 | P5317-16   | RW9-MW01D3-202412  | BN035771.D | 21 Dec 2024 08:49 | END CCC Missing                         | RC/JU | Not Ok |
| 62 | P5317-17   | DUP-06-20241217    | BN035772.D | 21 Dec 2024 09:25 | END CCC Missing                         | RC/JU | Not Ok |
| 63 | P5317-18   | RE132D5-20241217   | BN035773.D | 21 Dec 2024 10:01 | END CCC Missing, Need 2X Dilution       | RC/JU | Not Ok |
| 64 | P5317-19MS | RE132D5-20241217MS | BN035774.D | 21 Dec 2024 10:37 | Internal Standard Fail, END CCC Missing | RC/JU | Not Ok |

M : Manual Integration



Instrument ID: BNA\_N

**Daily Analysis Runlog For Sequence/QC Batch ID # BN122324**

|              |          |                   |                                           |
|--------------|----------|-------------------|-------------------------------------------|
| Review By    | Yogesh   | Review On         | 12/24/2024 8:45:14 AM                     |
| Supervise By | mohammad | Supervise On      | 12/26/2024 1:14:41 AM                     |
| SubDirectory | BN122324 | HP Acquire Method | BNA_N, 8270_HP Processing Method bn112724 |

| STD. NAME                | STD REF.#                                        |
|--------------------------|--------------------------------------------------|
| Tune/Reschk              | SP6573                                           |
| Initial Calibration Stds | SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657 |
| CCC                      | SP6661                                           |
| Internal Standard/PEM    | SP6682,1ul/100ul sample                          |
| ICV/I.BLK                | SP6684                                           |
| Surrogate Standard       |                                                  |
| MS/MSD Standard          |                                                  |
| LCS Standard             |                                                  |

| Sr# | SampleID    | ClientID           | Data File Name | Date-Time         | Comment                          | Operator | Status   |
|-----|-------------|--------------------|----------------|-------------------|----------------------------------|----------|----------|
| 1   | DFTPP       | DFTPP              | BN035775.D     | 23 Dec 2024 09:43 |                                  | RC/JU    | Ok       |
| 2   | SSTDCCC0.4  | SSTDCCC0.4         | BN035776.D     | 23 Dec 2024 10:22 |                                  | RC/JU    | Ok,M     |
| 3   | PB165596BL  | PB165596BL         | BN035777.D     | 23 Dec 2024 10:57 | Analyzed for contamination check | RC/JU    | Not Ok   |
| 4   | P5281-04    | TT101D2-20241212   | BN035778.D     | 23 Dec 2024 11:32 | Need 2X Dilution                 | RC/JU    | Dilution |
| 5   | P5317-15    | RW9-MW01D2-202412  | BN035779.D     | 23 Dec 2024 12:08 |                                  | RC/JU    | Ok,M     |
| 6   | P5317-16    | RW9-MW01D3-202412  | BN035780.D     | 23 Dec 2024 12:43 |                                  | RC/JU    | Ok,M     |
| 7   | P5317-17    | DUP-06-20241217    | BN035781.D     | 23 Dec 2024 13:19 |                                  | RC/JU    | Ok,M     |
| 8   | P5317-18    | RE132D5-20241217   | BN035782.D     | 23 Dec 2024 13:54 |                                  | RC/JU    | Ok,M     |
| 9   | P5317-19MS  | RE132D5-20241217MS | BN035783.D     | 23 Dec 2024 14:30 |                                  | RC/JU    | Ok,M     |
| 10  | P5317-20MSD | RE132D5-20241217MS | BN035784.D     | 23 Dec 2024 15:05 |                                  | RC/JU    | Ok,M     |
| 11  | P5314-02    | BP-VPB-190A-GW-678 | BN035785.D     | 23 Dec 2024 15:41 |                                  | RC/JU    | Ok,M     |
| 12  | P5314-04    | VPB190A-HYD-202412 | BN035786.D     | 23 Dec 2024 16:17 |                                  | RC/JU    | Ok,M     |
| 13  | P5317-21    | RE132D6-20241217   | BN035787.D     | 23 Dec 2024 16:52 | Need 5X Dilution                 | RC/JU    | Dilution |
| 14  | P5317-22    | RE132D7-20241217   | BN035788.D     | 23 Dec 2024 17:28 |                                  | RC/JU    | Ok,M     |
| 15  | P5317-24    | RW8-MW01D2-202412  | BN035789.D     | 23 Dec 2024 18:04 |                                  | RC/JU    | Ok,M     |
| 16  | P5317-25    | RW8-MW01D3-202412  | BN035790.D     | 23 Dec 2024 18:39 |                                  | RC/JU    | Ok,M     |
| 17  | P5281-02    | BPOW1-7-20241212   | BN035791.D     | 23 Dec 2024 19:15 |                                  | RC/JU    | Ok,M     |

Instrument ID: BNA\_N

**Daily Analysis Runlog For Sequence/QC Batch ID # BN122324**

|                                                                                                    |                                                            |                   |                                           |
|----------------------------------------------------------------------------------------------------|------------------------------------------------------------|-------------------|-------------------------------------------|
| Review By                                                                                          | Yogesh                                                     | Review On         | 12/24/2024 8:45:14 AM                     |
| Supervise By                                                                                       | mohammad                                                   | Supervise On      | 12/26/2024 1:14:41 AM                     |
| SubDirectory                                                                                       | BN122324                                                   | HP Acquire Method | BNA_N, 8270_HP Processing Method bn112724 |
| <b>STD. NAME</b>                                                                                   | <b>STD REF.#</b>                                           |                   |                                           |
| Tune/Reschk<br>Initial Calibration Stds                                                            | SP6573<br>SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657 |                   |                                           |
| CCC<br>Internal Standard/PEM<br>ICV/I.BLK<br>Surrogate Standard<br>MS/MSD Standard<br>LCS Standard | SP6661<br>SP6682,1ul/100ul sample<br>SP6684                |                   |                                           |

|    |            |                    |            |                   |                  |       |          |
|----|------------|--------------------|------------|-------------------|------------------|-------|----------|
| 18 | SSTDCCC0.4 | SSTDCCC0.4EC       | BN035792.D | 23 Dec 2024 19:51 |                  | RC/JU | Ok,M     |
| 19 | DFTPP      | DFTPP              | BN035793.D | 23 Dec 2024 20:26 |                  | RC/JU | Ok       |
| 20 | SSTDCCC0.4 | SSTDCCC0.4         | BN035794.D | 23 Dec 2024 22:16 |                  | RC/JU | Ok,M     |
| 21 | PB165667BL | PB165667BL         | BN035795.D | 23 Dec 2024 22:52 |                  | RC/JU | Ok,M     |
| 22 | P5281-03   | BPOW1-8-20241212   | BN035796.D | 23 Dec 2024 23:27 |                  | RC/JU | Ok,M     |
| 23 | P5281-05   | RE117D1-20241213   | BN035797.D | 24 Dec 2024 00:03 |                  | RC/JU | Ok,M     |
| 24 | P5281-06   | RE115D1-20241213   | BN035798.D | 24 Dec 2024 00:38 | Need 2X Dilution | RC/JU | Dilution |
| 25 | P5281-07   | TT189D2-20241213   | BN035799.D | 24 Dec 2024 01:14 | Need 2X Dilution | RC/JU | Dilution |
| 26 | P5281-08   | FB02-20241213      | BN035800.D | 24 Dec 2024 01:49 |                  | RC/JU | Ok,M     |
| 27 | P5282-01   | RW7-SP100-20241212 | BN035801.D | 24 Dec 2024 02:25 | Need 2X Dilution | RC/JU | Dilution |
| 28 | P5282-02   | RW7-SP201-20241212 | BN035802.D | 24 Dec 2024 03:00 |                  | RC/JU | Ok,M     |
| 29 | P5282-03   | RW7-SP302-20241212 | BN035803.D | 24 Dec 2024 03:36 |                  | RC/JU | Ok,M     |
| 30 | P5282-04   | RW7-SP303-20241212 | BN035804.D | 24 Dec 2024 04:12 |                  | RC/JU | Ok,M     |
| 31 | P5284-01   | RW5-SP100-20241212 | BN035805.D | 24 Dec 2024 04:47 | Need 5X Dilution | RC/JU | Dilution |
| 32 | P5317-07   | RW8-MW01S-20241211 | BN035806.D | 24 Dec 2024 05:23 |                  | RC/JU | Ok,M     |
| 33 | P5317-06   | DUP-04-20241216    | BN035807.D | 24 Dec 2024 05:58 |                  | RC/JU | Ok,M     |
| 34 | PB165667BS | PB165667BS         | BN035808.D | 24 Dec 2024 06:34 |                  | RC/JU | Ok,M     |
| 35 | SSTDCCC0.4 | SSTDCCC0.4EC       | BN035809.D | 24 Dec 2024 07:09 |                  | RC/JU | Ok,M     |
| 36 | DFTPP      | DFTPP              | BN035810.D | 24 Dec 2024 07:45 |                  | RC/JU | Ok       |

Instrument ID: BNA\_N

**Daily Analysis Runlog For Sequence/QC Batch ID # BN122324**

|              |          |                   |                                           |
|--------------|----------|-------------------|-------------------------------------------|
| Review By    | Yogesh   | Review On         | 12/24/2024 8:45:14 AM                     |
| Supervise By | mohammad | Supervise On      | 12/26/2024 1:14:41 AM                     |
| SubDirectory | BN122324 | HP Acquire Method | BNA_N, 8270_HP Processing Method bn112724 |

| STD. NAME                                                                                          | STD REF.#                                                  |
|----------------------------------------------------------------------------------------------------|------------------------------------------------------------|
| Tune/Reschk<br>Initial Calibration Stds                                                            | SP6573<br>SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657 |
| CCC<br>Internal Standard/PEM<br>ICV/I.BLK<br>Surrogate Standard<br>MS/MSD Standard<br>LCS Standard | SP6661<br>SP6682,1ul/100ul sample<br>SP6684                |

|    |             |                    |            |                   |                    |       |          |
|----|-------------|--------------------|------------|-------------------|--------------------|-------|----------|
| 37 | SSTDCCC0.4  | SSTDCCC0.4         | BN035811.D | 24 Dec 2024 08:59 |                    | RC/JU | Ok,M     |
| 38 | PB165828BL  | PB165828BL         | BN035812.D | 24 Dec 2024 09:35 |                    | RC/JU | Ok,M     |
| 39 | P5281-04DL  | TT101D2-20241212DL | BN035813.D | 24 Dec 2024 10:10 |                    | RC/JU | Ok,M     |
| 40 | P5261-19DL  | RE120D3-20241210DL | BN035814.D | 24 Dec 2024 10:46 | Not Match Dilution | RC/JU | Not Ok   |
| 41 | P5376-02    | TT150S1-20241218   | BN035815.D | 24 Dec 2024 11:21 |                    | RC/JU | Ok,M     |
| 42 | P5376-03    | RE115D2-20241218   | BN035816.D | 24 Dec 2024 11:57 | Need 5X Dilution   | RC/JU | Dilution |
| 43 | P5376-04    | TT149S1-20241218   | BN035817.D | 24 Dec 2024 12:33 |                    | RC/JU | Ok,M     |
| 44 | P5376-05    | DUP-07-20241218    | BN035818.D | 24 Dec 2024 13:08 |                    | RC/JU | Ok,M     |
| 45 | P5376-06    | TT1741I-20241218   | BN035819.D | 24 Dec 2024 13:44 |                    | RC/JU | Ok,M     |
| 46 | P5376-07    | RW10-MW01S-202412  | BN035820.D | 24 Dec 2024 14:19 |                    | RC/JU | Ok,M     |
| 47 | P5376-08MS  | RW10-MW01S-202412  | BN035821.D | 24 Dec 2024 14:55 |                    | RC/JU | Ok,M     |
| 48 | P5376-09MSD | RW10-MW01S-202412  | BN035822.D | 24 Dec 2024 15:31 |                    | RC/JU | Ok,M     |
| 49 | P5376-10    | RW10-MW01D-202412  | BN035823.D | 24 Dec 2024 16:06 |                    | RC/JU | Ok,M     |
| 50 | P5376-11    | RW10A-MW01S-20241  | BN035824.D | 24 Dec 2024 16:42 |                    | RC/JU | Ok,M     |
| 51 | P5376-12    | RW10A-MW01I-202412 | BN035825.D | 24 Dec 2024 17:18 |                    | RC/JU | Ok,M     |
| 52 | P5376-13    | RE117D2-20241218   | BN035826.D | 24 Dec 2024 17:53 |                    | RC/JU | Ok,M     |
| 53 | P5376-14    | TT161S1-20241219   | BN035827.D | 24 Dec 2024 18:29 |                    | RC/JU | Ok,M     |
| 54 | SSTDCCC0.4  | SSTDCCC0.4EC       | BN035828.D | 24 Dec 2024 19:05 |                    | RC/JU | Ok,M     |
| 55 | DFTPP       | DFTPP              | BN035829.D | 24 Dec 2024 19:41 |                    | RC/JU | Ok       |

Instrument ID: BNA\_N

**Daily Analysis Runlog For Sequence/QC Batch ID # BN122324**

|                                                                                                    |                                                            |                   |                                           |
|----------------------------------------------------------------------------------------------------|------------------------------------------------------------|-------------------|-------------------------------------------|
| Review By                                                                                          | Yogesh                                                     | Review On         | 12/24/2024 8:45:14 AM                     |
| Supervise By                                                                                       | mohammad                                                   | Supervise On      | 12/26/2024 1:14:41 AM                     |
| SubDirectory                                                                                       | BN122324                                                   | HP Acquire Method | BNA_N, 8270_HP Processing Method bn112724 |
| <b>STD. NAME</b>                                                                                   | <b>STD REF.#</b>                                           |                   |                                           |
| Tune/Reschk<br>Initial Calibration Stds                                                            | SP6573<br>SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657 |                   |                                           |
| CCC<br>Internal Standard/PEM<br>ICV/I.BLK<br>Surrogate Standard<br>MS/MSD Standard<br>LCS Standard | SP6661<br>SP6682,1ul/100ul sample<br>SP6684                |                   |                                           |

|    |             |                    |            |                   |                         |       |        |
|----|-------------|--------------------|------------|-------------------|-------------------------|-------|--------|
| 56 | SSTDCCC0.4  | SSTDCCC0.4         | BN035830.D | 24 Dec 2024 20:55 |                         | RC/JU | Ok,M   |
| 57 | PB165596BL  | PB165596BL         | BN035831.D | 24 Dec 2024 22:07 |                         | RC/JU | Ok,M   |
| 58 | P5376-15    | TT162S1-20241219   | BN035832.D | 24 Dec 2024 22:42 | CCC Fail high for Com#2 | RC/JU | ReRun  |
| 59 | P5376-16    | RW11-MW01S-202412  | BN035833.D | 24 Dec 2024 23:18 |                         | RC/JU | Ok,M   |
| 60 | P5376-17    | RW11-MW01I-2024121 | BN035834.D | 24 Dec 2024 23:53 |                         | RC/JU | Ok,M   |
| 61 | P5376-18    | TT119S1-20241219   | BN035835.D | 25 Dec 2024 00:29 |                         | RC/JU | Ok,M   |
| 62 | P5376-19    | TT188S1-20241219   | BN035836.D | 25 Dec 2024 01:05 | CCC Fail high for Com#2 | RC/JU | ReRun  |
| 63 | P5376-20    | FB03-20241219      | BN035837.D | 25 Dec 2024 01:40 |                         | RC/JU | Ok,M   |
| 64 | P5376-01    | TT205S1-20241218   | BN035838.D | 25 Dec 2024 02:16 | CCC Fail high for Com#2 | RC/JU | ReRun  |
| 65 | PB165723BS  | PB165723BS         | BN035839.D | 25 Dec 2024 02:51 | CCC Fail high for Com#2 | RC/JU | Not Ok |
| 66 | PB165724BSD | PB165724BSD        | BN035840.D | 25 Dec 2024 03:27 | CCC Fail high for Com#2 | RC/JU | Not Ok |
| 67 | PB165828BS  | PB165828BS         | BN035841.D | 25 Dec 2024 04:03 | CCC Fail high for Com#2 | RC/JU | Not Ok |
| 68 | P5374-03    | BP-VPB-190A-GW-718 | BN035842.D | 25 Dec 2024 04:38 | CCC Fail high for Com#2 | RC/JU | ReRun  |
| 69 | SSTDCCC0.4  | SSTDCCC0.4EC       | BN035843.D | 25 Dec 2024 05:14 |                         | RC/JU | Ok,M   |

M : Manual Integration

Instrument ID: BNA\_N

**Daily Analysis Runlog For Sequence/QC Batch ID # BN122624**

|              |          |                   |                                           |
|--------------|----------|-------------------|-------------------------------------------|
| Review By    | yogesh   | Review On         | 12/27/2024 3:53:55 AM                     |
| Supervise By | mohammad | Supervise On      | 12/27/2024 4:13:15 AM                     |
| SubDirectory | BN122624 | HP Acquire Method | BNA_N, 8270_HP Processing Method bn112724 |

| STD. NAME                | STD REF.#                                        |
|--------------------------|--------------------------------------------------|
| Tune/Reschk              | SP6573                                           |
| Initial Calibration Stds | SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657 |
| CCC                      | SP6661                                           |
| Internal Standard/PEM    | SP6682,1ul/100ul sample                          |
| ICV/I.BLK                | SP6684                                           |
| Surrogate Standard       |                                                  |
| MS/MSD Standard          |                                                  |
| LCS Standard             |                                                  |

| Sr# | SampleId    | ClientID           | Data File Name | Date-Time         | Comment | Operator | Status |
|-----|-------------|--------------------|----------------|-------------------|---------|----------|--------|
| 1   | DFTPP       | DFTPP              | BN035844.D     | 26 Dec 2024 09:19 |         | RC/JU    | Ok     |
| 2   | SSTDCCC0.4  | SSTDCCC0.4         | BN035845.D     | 26 Dec 2024 09:58 |         | RC/JU    | Ok,M   |
| 3   | PB165828BL  | PB165828BL         | BN035846.D     | 26 Dec 2024 10:35 |         | RC/JU    | Ok,M   |
| 4   | P5376-15    | TT162S1-20241219   | BN035847.D     | 26 Dec 2024 11:20 |         | RC/JU    | Ok,M   |
| 5   | P5376-19    | TT188S1-20241219   | BN035848.D     | 26 Dec 2024 11:56 |         | RC/JU    | Ok,M   |
| 6   | P5376-01    | TT205S1-20241218   | BN035849.D     | 26 Dec 2024 12:31 |         | RC/JU    | Ok,M   |
| 7   | P5374-03    | BP-VPB-190A-GW-718 | BN035850.D     | 26 Dec 2024 13:07 |         | RC/JU    | Ok,M   |
| 8   | PB165723BS  | PB165723BS         | BN035851.D     | 26 Dec 2024 13:43 |         | RC/JU    | Ok,M   |
| 9   | PB165828BS  | PB165828BS         | BN035852.D     | 26 Dec 2024 14:19 |         | RC/JU    | Ok,M   |
| 10  | PB165724BSD | PB165724BSD        | BN035853.D     | 26 Dec 2024 14:54 |         | RC/JU    | Ok,M   |
| 11  | P5376-03DL  | RE115D2-20241218DL | BN035854.D     | 26 Dec 2024 15:30 |         | RC/JU    | Ok,M   |
| 12  | P5317-21DL  | RE132D6-20241217DL | BN035855.D     | 26 Dec 2024 16:06 |         | RC/JU    | Ok,M   |
| 13  | P5281-07DL  | TT189D2-20241213DL | BN035856.D     | 26 Dec 2024 16:42 |         | RC/JU    | Ok,M   |
| 14  | P5282-01DL  | RW7-SP100-20241212 | BN035857.D     | 26 Dec 2024 17:18 |         | RC/JU    | Ok,M   |
| 15  | P5281-06DL  | RE115D1-20241213DL | BN035858.D     | 26 Dec 2024 17:53 |         | RC/JU    | Ok,M   |
| 16  | P5284-01DL  | RW5-SP100-20241212 | BN035859.D     | 26 Dec 2024 18:29 |         | RC/JU    | Ok,M   |
| 17  | P5261-19DL  | RE120D3-20241210DL | BN035860.D     | 26 Dec 2024 19:05 |         | RC/JU    | Ok,M   |
| 18  | SSTDCCC0.4  | SSTDCCC0.4EC       | BN035861.D     | 26 Dec 2024 19:41 |         | RC/JU    | Ok,M   |

Instrument ID: BNA\_N

**Daily Analysis Runlog For Sequence/QC Batch ID # BN122624**

| Review By                | yogesh                                           | Review On         | 12/27/2024 3:53:55 AM                     |
|--------------------------|--------------------------------------------------|-------------------|-------------------------------------------|
| Supervise By             | mohammad                                         | Supervise On      | 12/27/2024 4:13:15 AM                     |
| SubDirectory             | BN122624                                         | HP Acquire Method | BNA_N, 8270_HP Processing Method bn112724 |
| STD. NAME                | STD REF.#                                        |                   |                                           |
| Tune/Reschk              | SP6573                                           |                   |                                           |
| Initial Calibration Stds | SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657 |                   |                                           |
| CCC                      | SP6661                                           |                   |                                           |
| Internal Standard/PEM    | SP6682,1ul/100ul sample                          |                   |                                           |
| ICV/I.BLK                | SP6684                                           |                   |                                           |
| Surrogate Standard       |                                                  |                   |                                           |
| MS/MSD Standard          |                                                  |                   |                                           |
| LCS Standard             |                                                  |                   |                                           |

M : Manual Integration

SOP ID: M3510C,3580A-Extraction SVOC-20

Clean Up SOP #: N/A

Extraction Start Date : 12/16/2024

Matrix : Water

Extraction Start Time : 11:30

Weigh By: N/A

Extraction By: RS

Extraction End Date : 12/16/2024

Balance check: N/A

Filter By: RS

Extraction End Time : 16:30

Balance ID: N/A

pH Meter ID: N/A

Concentration By: EH

pH Strip Lot#: E3574

Hood ID: 4,5,6,7

Supervisor By : rajesh

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             | SP6616              |
| Surrogate     | 1.0ML    | 0.4 PPM             | SP6666              |
| 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            | E3845      |
| Baked Na2SO4       | N/A            | EP2571     |
| 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<2 with 1:1 H2SO4 &>11 with 10 N NaOH.

KD Bath ID: Water bath -01,02

Envap ID: NEVAP-02

KD Bath Temperature: 60 °C

Envap Temperature: 40 °C

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|-------------|-----------------------------------------|----------------------|
| 12/16/24    | RP (Est. 245)                           | Rdsvoc               |
| 16:35       | Preparation Group                       | Analysis Group       |

Analytical Method: M3510C,3580A-Extraction SVOC-20

Concentration Date: 12/16/2024

| Sample ID  | Client Sample ID   | Test               | g / mL | PH | Surr/Spike By: |            | Final Vol.<br>(mL) | JarID | Comments | Prep<br>Pos |
|------------|--------------------|--------------------|--------|----|----------------|------------|--------------------|-------|----------|-------------|
|            |                    |                    |        |    | AddedBy        | VerifiedBy |                    |       |          |             |
| PB165667BL | SBLK667            | SVOC-SIMGrou<br>p1 | 1000   | 6  | RUPESH         | ritesh     | 1                  |       |          | SEP-01      |
| PB165667BS | SLCS667            | SVOC-SIMGrou<br>p1 | 1000   | 6  | RUPESH         | ritesh     | 1                  |       |          | 2           |
| P5280-01   | BPOW6-7-20241212   | SVOC-SIMGrou<br>p1 | 890    | 6  | RUPESH         | ritesh     | 1                  | C     |          | 3           |
| P5280-02   | BPOW6-8-20241212   | SVOC-SIMGrou<br>p1 | 980    | 6  | RUPESH         | ritesh     | 1                  | C     |          | 4           |
| P5280-03   | BPOW6-11-20241212  | SVOC-SIMGrou<br>p1 | 970    | 6  | RUPESH         | ritesh     | 1                  | C     |          | 5           |
| P5280-04   | P5280-03MS         | SVOC-SIMGrou<br>p1 | 990    | 6  | RUPESH         | ritesh     | 1                  | C     |          | 6           |
| P5280-05   | P5280-03MSD        | SVOC-SIMGrou<br>p1 | 990    | 6  | RUPESH         | ritesh     | 1                  | C     |          | 7           |
| P5280-08   | DUP-03-20241212    | SVOC-SIMGrou<br>p1 | 1000   | 6  | RUPESH         | ritesh     | 1                  | C     |          | 8           |
| P5281-01   | RE114D1-202412     | SVOC-SIMGrou<br>p1 | 1000   | 6  | RUPESH         | ritesh     | 1                  | C     |          | 9           |
| P5281-02   | BPOW1-7-202412     | SVOC-SIMGrou<br>p1 | 990    | 6  | RUPESH         | ritesh     | 1                  | C     |          | 10          |
| P5281-03   | BPOW1-8-202412     | SVOC-SIMGrou<br>p1 | 890    | 6  | RUPESH         | ritesh     | 1                  | C     |          | 11          |
| P5281-04   | TT101D2-202412     | SVOC-SIMGrou<br>p1 | 990    | 6  | RUPESH         | ritesh     | 1                  | C     |          | 12          |
| P5281-05   | RE117D1-202413     | SVOC-SIMGrou<br>p1 | 1000   | 6  | RUPESH         | ritesh     | 1                  | C     |          | 13          |
| P5281-06   | RE115D1-202413     | SVOC-SIMGrou<br>p1 | 990    | 6  | RUPESH         | ritesh     | 1                  | C     |          | 14          |
| P5281-07   | TT189D2-202413     | SVOC-SIMGrou<br>p1 | 880    | 6  | RUPESH         | ritesh     | 1                  | C     |          | 15          |
| P5281-08   | FB02-20241213      | SVOC-SIMGrou<br>p1 | 990    | 6  | RUPESH         | ritesh     | 1                  | C     |          | 16          |
| P5282-01   | RW7-SP100-20241212 | SVOC-SIMGrou<br>p1 | 1000   | 6  | RUPESH         | ritesh     | 1                  |       |          | SEP-01      |
| P5282-02   | RW7-SP201-20241212 | SVOC-SIMGrou<br>p1 | 1000   | 6  | RUPESH         | ritesh     | 1                  |       |          | 2           |
| P5282-03   | RW7-SP302-20241212 | SVOC-SIMGrou<br>p1 | 1000   | 6  | RUPESH         | ritesh     | 1                  |       |          | 3           |
| P5282-04   | RW7-SP303-20241212 | SVOC-SIMGrou<br>p1 | 990    | 6  | RUPESH         | ritesh     | 1                  |       |          | 4           |
| P5284-01   | RW5-SP100-20241212 | SVOC-SIMGrou<br>p1 | 1000   | 6  | RUPESH         | ritesh     | 1                  |       |          | 5           |
| P5284-02   | RW5-SP201-20241212 | SVOC-SIMGrou<br>p1 | 1000   | 6  | RUPESH         | ritesh     | 1                  |       |          | 6           |
| P5284-03   | RW5-SP100-20241212 | SVOC-SIMGrou<br>p1 | 1000   | 6  | RUPESH         | ritesh     | 1                  |       |          | 7           |

\* Extracts relinquished on the same date as received.





11:30 AM  
12/16/24

# WORKLIST(Hardcopy Internal Chain)

WorkList Name : P5280

WorkList ID : 186371

Department : Extraction

Date : 12-16-2024 11:25:50

| Sample   | Customer Sample    | Matrix | Test           | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method        |
|----------|--------------------|--------|----------------|--------------|----------|-----------------------------|--------------|---------------|
| P5280-01 | BPOW6-7-20241212   | Water  | SVOC-SIMGroup1 | Cool 4 deg C | AECO15   | L51                         | 12/12/2024   | 8270-Modified |
| P5280-02 | BPOW6-8-20241212   | Water  | SVOC-SIMGroup1 | Cool 4 deg C | AECO15   | L51                         | 12/12/2024   | 8270-Modified |
| P5280-03 | BPOW6-11-20241212  | Water  | SVOC-SIMGroup1 | Cool 4 deg C | AECO15   | L51                         | 12/12/2024   | 8270-Modified |
| P5280-04 | P5280-03MS         | Water  | SVOC-SIMGroup1 | Cool 4 deg C | AECO15   | L51                         | 12/12/2024   | 8270-Modified |
| P5280-05 | P5280-03MSD        | Water  | SVOC-SIMGroup1 | Cool 4 deg C | AECO15   | L51                         | 12/12/2024   | 8270-Modified |
| P5280-08 | DUP-03-20241212    | Water  | SVOC-SIMGroup1 | Cool 4 deg C | AECO15   | L51                         | 12/12/2024   | 8270-Modified |
| P5281-01 | RE114D1-202412     | Water  | SVOC-SIMGroup1 | Cool 4 deg C | AECO15   | L61                         | 12/12/2024   | 8270-Modified |
| P5281-02 | BPOW1-7-202412     | Water  | SVOC-SIMGroup1 | Cool 4 deg C | AECO15   | L61                         | 12/12/2024   | 8270-Modified |
| P5281-03 | BPOW1-8-202412     | Water  | SVOC-SIMGroup1 | Cool 4 deg C | AECO15   | L61                         | 12/12/2024   | 8270-Modified |
| P5281-04 | TT101D2-202412     | Water  | SVOC-SIMGroup1 | Cool 4 deg C | AECO15   | L61                         | 12/12/2024   | 8270-Modified |
| P5281-05 | RE117D1-202413     | Water  | SVOC-SIMGroup1 | Cool 4 deg C | AECO15   | L61                         | 12/12/2024   | 8270-Modified |
| P5281-06 | RE115D1-202413     | Water  | SVOC-SIMGroup1 | Cool 4 deg C | AECO15   | L61                         | 12/13/2024   | 8270-Modified |
| P5281-07 | TT189D2-202413     | Water  | SVOC-SIMGroup1 | Cool 4 deg C | AECO15   | L61                         | 12/13/2024   | 8270-Modified |
| P5281-08 | FB02-20241213      | Water  | SVOC-SIMGroup1 | Cool 4 deg C | AECO15   | L61                         | 12/13/2024   | 8270-Modified |
| P5282-01 | RW7-SP100-20241212 | Water  | SVOC-SIMGroup1 | Cool 4 deg C | TETR06   | L21                         | 12/12/2024   | 8270-Modified |
| P5282-02 | RW7-SP201-20241212 | Water  | SVOC-SIMGroup1 | Cool 4 deg C | TETR06   | L21                         | 12/12/2024   | 8270-Modified |
| P5282-03 | RW7-SP302-20241212 | Water  | SVOC-SIMGroup1 | Cool 4 deg C | TETR06   | L21                         | 12/12/2024   | 8270-Modified |
| P5282-04 | RW7-SP303-20241212 | Water  | SVOC-SIMGroup1 | Cool 4 deg C | TETR06   | L21                         | 12/12/2024   | 8270-Modified |
| P5284-01 | RW5-SP100-20241212 | Water  | SVOC-SIMGroup1 | Cool 4 deg C | TETR06   | L61                         | 12/12/2024   | 8270-Modified |
| P5284-02 | RW5-SP201-20241212 | Water  | SVOC-SIMGroup1 | Cool 4 deg C | TETR06   | L61                         | 12/12/2024   | 8270-Modified |
| P5284-03 | RW5-SP100-20241212 | Water  | SVOC-SIMGroup1 | Cool 4 deg C | TETR06   | L61                         | 12/12/2024   | 8270-Modified |

Date/Time 12/16/24 11:27  
Raw Sample Received by: [Signature]  
Raw Sample Relinquished by: [Signature]

Date/Time 12/16/24 12:00  
Raw Sample Received by: [Signature]  
Raw Sample Relinquished by: [Signature]

## Prep Standard - Chemical Standard Summary

**Order ID :** P5284

**Test :** SVOC-SIMGroup1

**Prepbatch ID :** PB165667,

**Sequence ID/Qc Batch ID:** bn121924,BN122324,BN122624,

**Standard ID :**

EP2559,EP2565,EP2571,SP6527,SP6573,SP6616,SP6629,SP6656,SP6657,SP6658,SP6659,SP6660,SP6661,SP6662,SP6663,SP6666,SP6682,SP6683,SP6684,

**Chemical ID :**

1ul/100ul

sample,E3551,E3657,E3759,E3768,E3788,E3791,E3817,E3818,E3828,E3845,M5173,S10103,S10247,S 11011,S11074,S11097,S11494,S11792,S11831,S12029,S12077,S12079,S12105,S12113,S12126,S12142,S12189,S12207,S12208,S12314,S12328,S12453,S12469,S12517,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 |
| <u>FROM</u>      | 1000.00000ml of W3112 + 400.00000gram of E3657 = Final Quantity: 1000.000 ml |                        |                  |                        |                    |                                     |                  |                                   |

| <u>Recipe ID</u>                                                                               | <u>NAME</u>    | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u>              |
|------------------------------------------------------------------------------------------------|----------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|-----------------------------------|
| 314                                                                                            | 1.1 H2SO4 SOLN | <a href="#">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="#">EP2571</a> | 12/11/2024       | 01/03/2025             | Rajesh Parikh      | Extraction_SC<br>ALE_2<br>(EX-SC-2) | None             | Yogesh Patel<br><br>12/16/2024 |
| <b><u>FROM</u></b> 4000.00000gram of E3551 = Final Quantity: 4000.000 gram |                      |                        |                  |                        |                    |                                     |                  |                                |

| <u>Recipe ID</u> | <u>NAME</u>                                                         | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u>         |
|------------------|---------------------------------------------------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|------------------------------|
| 3493             | Internal Standard 0.4 PPM                                           | <a href="#">SP6527</a> | 06/10/2024       | 12/05/2024             | Jagrut Upadhyay    | None           | None             | mohammad ahmed<br>07/05/2024 |
| <u>FROM</u>      | 0.10000ml of S12029 + 4.90000ml of E3759 = 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="#">SP6573</a> | 07/15/2024       | 01/08/2025             | Rahul Chavli       | None           | None             | Yogesh Patel         |
|                  |                      |                        |                  |                        |                    |                |                  | 07/17/2024           |

**FROM** 1.00000ml of S10247 + 19.00000ml of E3768 = 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> |
|------------------|------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3492             | 8270-SIM-Spike 0.4 PPM | <a href="#">SP6616</a> | 09/06/2024       | 02/12/2025             | Rahul Chavli       | None           | None             | mohammad ahmed       |
|                  |                        |                        |                  |                        |                    |                |                  | 09/11/2024           |

**FROM** 0.00160ml of S11011 + 0.02000ml of S11792 + 0.04000ml of S12105 + 0.04000ml of S12126 + 0.04000ml of S12453 +  
99.85840ml of E3788 = Final Quantity: 100.000 ml

## SVOC STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>               | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|---------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3493             | Internal Standard 0.4 PPM | <a href="#">SP6629</a> | 09/12/2024       | 03/04/2025             | Jagrut Upadhyay    | None           | None             | Yogesh Patel         |
|                  |                           |                        |                  |                        |                    |                |                  | 10/14/2024           |

**FROM** 0.10000ml of S12314 + 4.90000ml of E3791 = Final Quantity: 5.000 ml

| <u>Recipe ID</u> | <u>NAME</u>                            | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|----------------------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3339             | 8270 sim calibration stock 10ppm (CPI) | <a href="#">SP6656</a> | 10/24/2024       | 02/08/2025             | Jagrut Upadhyay    | None           | None             | Yogesh Patel         |
|                  |                                        |                        |                  |                        |                    |                |                  | 11/28/2024           |

**FROM** 0.03350ml of S10103 + 0.05000ml of S11494 + 0.05000ml of S12079 + 0.12500ml of S11831 + 0.12500ml of S12113 + 0.20000ml of S12077 + 0.25000ml of S11097 + 24.16650ml of E3817 = Final Quantity: 25.000 ml

## SVOC STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>                            | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|----------------------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3361             | 8270-SIM MDL-5PPM CALIBRATION SOLUTION | <a href="#">SP6657</a> | 10/24/2024       | 02/08/2025             | Jagrut Upadhyay    | None           | None             | Yogesh Patel         |
|                  |                                        |                        |                  |                        |                    |                |                  | 11/28/2024           |

**FROM** 0.50000ml of E3817 + 0.01000ml of SP6629 + 0.50000ml of SP6656 = Final Quantity: 1.010 ml

| <u>Recipe ID</u> | <u>NAME</u>                              | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|------------------------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3341             | 8270-SIM MDL-3.2PPM CALIBRATION SOLUTION | <a href="#">SP6658</a> | 10/24/2024       | 02/08/2025             | Jagrut Upadhyay    | None           | None             | Yogesh Patel         |
|                  |                                          |                        |                  |                        |                    |                |                  | 11/28/2024           |

**FROM** 0.68000ml of E3817 + 0.01000ml of SP6629 + 0.32000ml of SP6656 = Final Quantity: 1.010 ml

## SVOC STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>                              | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|------------------------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3344             | 8270-SIM MDL-1.6PPM CALIBRATION SOLUTION | <a href="#">SP6659</a> | 10/24/2024       | 02/08/2025             | Jagrut Upadhyay    | None           | None             | Yogesh Patel         |
|                  |                                          |                        |                  |                        |                    |                |                  | 11/28/2024           |

**FROM** 0.84000ml of E3817 + 0.01000ml of SP6629 + 0.16000ml of SP6656 = Final Quantity: 1.010 ml

| <u>Recipe ID</u> | <u>NAME</u>                              | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|------------------------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3342             | 8270-SIM MDL-0.8PPM CALIBRATION SOLUTION | <a href="#">SP6660</a> | 10/24/2024       | 02/08/2025             | Jagrut Upadhyay    | None           | None             | Yogesh Patel         |
|                  |                                          |                        |                  |                        |                    |                |                  | 11/28/2024           |

**FROM** 0.92000ml of E3817 + 0.01000ml of SP6629 + 0.08000ml of SP6656 = Final Quantity: 1.010 ml



## SVOC STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>                              | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|------------------------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3343             | 8270-SIM MDL-0.4PPM CALIBRATION SOLUTION | <a href="#">SP6661</a> | 10/24/2024       | 02/08/2025             | Jagrut Upadhyay    | None           | None             | Yogesh Patel         |
|                  |                                          |                        |                  |                        |                    |                |                  | 11/28/2024           |

**FROM** 0.96000ml of E3817 + 0.01000ml of SP6629 + 0.04000ml of SP6656 = Final Quantity: 1.010 ml

| <u>Recipe ID</u> | <u>NAME</u>                              | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|------------------------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3345             | 8270-SIM MDL-0.2PPM CALIBRATION SOLUTION | <a href="#">SP6662</a> | 10/24/2024       | 02/08/2025             | Jagrut Upadhyay    | None           | None             | Yogesh Patel         |
|                  |                                          |                        |                  |                        |                    |                |                  | 11/28/2024           |

**FROM** 0.50000ml of E3817 + 0.01000ml of SP6629 + 0.50000ml of SP6661 = Final Quantity: 1.010 ml

## SVOC STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>                              | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|------------------------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3346             | 8270-SIM MDL-0.1PPM CALIBRATION SOLUTION | <a href="#">SP6663</a> | 10/24/2024       | 02/08/2025             | Jagrut Upadhyay    | None           | None             | Yogesh Patel         |
|                  |                                          |                        |                  |                        |                    |                |                  | 11/28/2024           |

**FROM** 0.75000ml of E3817 + 0.01000ml of SP6629 + 0.25000ml of SP6661 = 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> |
|------------------|----------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3491             | 8270-SIM-Surrogate 0.4 PPM | <a href="#">SP6666</a> | 10/29/2024       | 04/10/2025             | Jagrut Upadhyay    | None           | None             | Yogesh Patel         |
|                  |                            |                        |                  |                        |                    |                |                  | 11/28/2024           |

**FROM** 0.00800ml of S12189 + 0.01600ml of S12207 + 0.04000ml of S11831 + 199.93600ml of E3818 = Final Quantity: 200.000 ml

## SVOC STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>               | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|---------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3493             | Internal Standard 0.4 PPM | <a href="#">SP6682</a> | 11/15/2024       | 05/09/2025             | Jagrut Upadhyay    | None           | None             | Yogesh Patel         |
|                  |                           |                        |                  |                        |                    |                |                  | 12/03/2024           |

**FROM** 0.10000ml of S12328 + 4.90000ml of E3828 = Final Quantity: 5.000 ml

| <u>Recipe ID</u> | <u>NAME</u>                                       | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|---------------------------------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3355             | 8270-SIM MDL-3.2PPM<br>CALIBRATION STOCK SOL- 2ND | <a href="#">SP6683</a> | 11/15/2024       | 04/10/2025             | Jagrut Upadhyay    | None           | None             | Yogesh Patel         |
|                  |                                                   |                        |                  |                        |                    |                |                  | 12/03/2024           |

**FROM** SOURCE  
0.00630ml of S12189 + 0.01280ml of S12208 + 0.03200ml of S11074 + 0.03200ml of S11831 + 0.06400ml of S12142 +  
0.06400ml of S12469 + 0.06400ml of S12517 + 19.72490ml of E3828 = 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="#">SP6684</a> | 11/15/2024       | 04/10/2025             | Jagrut Upadhyay    | None           | None             | Yogesh Patel         |
| <b>SOURCE</b><br>0.87500ml of E3828 + 0.01000ml of SP6682 + 0.12500ml of SP6683 = Final Quantity: 1.010 ml |                                                |                        |                  |                        |                    |                |                  |                      |
| <b>FROM</b>                                                                                                |                                                |                        |                  |                        |                    |                |                  |                      |

## 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) | 24D1962005 | 12/08/2024      | 06/08/2024 / Rajesh     | 05/31/2024 / Rajesh         | E3759          |

| 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) | 24E2462004 | 01/08/2025      | 07/08/2024 / Rajesh     | 06/21/2024 / Rajesh         | E3768          |

| 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) | 23H1462005 | 04/23/2025      | 08/13/2024 / Rajesh     | 08/13/2024 / Rajesh         | E3788          |

| 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) | 24G2362009 | 03/09/2025      | 09/09/2024 / Rajesh     | 09/03/2024 / Rajesh         | E3791          |

## CHEMICAL RECEIPT LOG BOOK

| Supplier         | ItemCode / ItemName                                         | Lot #      | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------|-------------------------------------------------------------|------------|-----------------|-------------------------|-----------------------------|----------------|
| Seidler Chemical | BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L) | 24H2762011 | 04/09/2025      | 10/09/2024 / Rajesh     | 10/09/2024 / Rajesh         | E3817          |

| Supplier         | ItemCode / ItemName                        | Lot #      | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------|--------------------------------------------|------------|-----------------|-------------------------|-----------------------------|----------------|
| Seidler Chemical | BA-9254-03 / Acetone, Ultra Resi (cs/4x4L) | 24H1462005 | 04/23/2025      | 10/23/2024 / Rajesh     | 10/09/2024 / Rajesh         | E3818          |

| 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-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L) | 24H2762011 | 06/06/2025      | 12/06/2024 / Rajesh     | 11/11/2024 / Rajesh         | E3845          |

| 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 /            | 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 | 02/08/2025      | 08/08/2024 / Jagrut     | 12/09/2021 / Christian      | S10103         |

## 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, | A0182667 | 01/15/2025      | 07/15/2024 / Rahul      | 03/18/2022 / Christian      | S10247         |

| 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] | A0193449 | 02/20/2025      | 08/20/2024 / yogesh     | 01/13/2023 / Christian      | S11011         |

| Supplier | ItemCode / ItemName                                           | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|---------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride | A0187043 | 05/15/2025      | 11/15/2024 / Jagrut     | 02/06/2023 / Christian      | S11074         |

| Supplier          | ItemCode / ItemName                                                  | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-------------------|----------------------------------------------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| CPI International | z-110381-01 / 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1ml | 495831 | 02/08/2025      | 08/08/2024 / Jagrut     | 02/07/2023 / Christian      | S11097         |

| 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 | 02/08/2025      | 08/08/2024 / Jagrut     | 08/11/2023 / Yogesh         | S11494         |

| 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 | 02/21/2025      | 08/21/2024 / Jagrut     | 11/21/2023 / Rahul          | S11792         |

## CHEMICAL RECEIPT LOG BOOK

| 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 | 04/11/2025      | 10/11/2024 / Jagrut     | 11/21/2023 / rahul          | S11831         |

| 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, CH2Cl2, 1mL | A0201320 | 12/05/2024      | 06/05/2024 / Rahul      | 12/21/2023 / Rahul          | S12029         |

| 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 | 02/08/2025      | 08/08/2024 / Jagrut     | 01/31/2024 / Rahul          | S12077         |

| 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 | 04/24/2025      | 10/24/2024 / Jagrut     | 01/31/2024 / Rahul          | S12079         |

| Supplier | ItemCode / ItemName                                                                                  | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|------------------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 555224 / Custom 8270 Plus Std #2 [2nd lot at \$85 per ampul if requested - contact ARM with Request] | A0207706 | 02/12/2025      | 08/12/2024 / Rahul      | 02/05/2024 / Rahul          | S12105         |

[CS 4978-2]

| 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 | 02/09/2025      | 08/09/2024 / Jagrut     | 03/08/2024 / Rahul          | S12113         |



## CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName                                                                                                                          | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31850 / 8270 SV Mix,<br>8270 Mega Mix 1mL,<br>1000ug/mL, CH <sub>2</sub> Cl <sub>2</sub> [New Solvent 100% CH <sub>2</sub> Cl <sub>2</sub> ] | A0203726 | 02/12/2025      | 08/12/2024 /<br>Rahul   | 03/15/2024 /<br>Rahul       | S12126         |

| Supplier | ItemCode / ItemName                                                                                                                          | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31850 / 8270 SV Mix,<br>8270 Mega Mix 1mL,<br>1000ug/mL, CH <sub>2</sub> Cl <sub>2</sub> [New Solvent 100% CH <sub>2</sub> Cl <sub>2</sub> ] | A0203726 | 04/30/2025      | 11/14/2024 /<br>anahy   | 03/15/2024 /<br>Rahul       | S12142         |

| Supplier | ItemCode / ItemName                                            | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|----------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31087 / Acid Surrogate<br>10,000ug/ml, methanol, 5ml/<br>ampul | A0206206 | 04/10/2025      | 10/10/2024 /<br>anahy   | 03/15/2024 /<br>Rahul       | S12189         |

| Supplier | ItemCode / ItemName                                                                   | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|---------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31086 / Base Neutral<br>Surrogate<br>5000ug/ml, CH <sub>2</sub> Cl <sub>2</sub> , 5ml | A0206381 | 04/10/2025      | 10/10/2024 /<br>anahy   | 03/15/2024 /<br>Rahul       | S12207         |

| Supplier | ItemCode / ItemName                                                                   | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|---------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31086 / Base Neutral<br>Surrogate<br>5000ug/ml, CH <sub>2</sub> Cl <sub>2</sub> , 5ml | A0206381 | 05/15/2025      | 11/15/2024 /<br>Jagrut  | 03/15/2024 /<br>Rahul       | S12208         |

| Supplier | ItemCode / ItemName                                                                              | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|--------------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31206 / SV Mix, CLP<br>method, Internal Std,<br>2000ug/mL, CH <sub>2</sub> Cl <sub>2</sub> , 1mL | A0206540 | 03/04/2025      | 09/04/2024 /<br>anahy   | 05/30/2024 /<br>Rahul       | S12314         |

## CHEMICAL RECEIPT LOG BOOK

| 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 | A0206540 | 05/13/2025      | 11/13/2024 / anahy      | 05/30/2024 / Rahul          | S12328         |

| Supplier | ItemCode / ItemName                                                                                   | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|-------------------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 555223 / Custom 8270 Plus Std #1 [2nd lot at \$100 per ampul if requested - contact ARM with Request] | A0214021 | 02/12/2025      | 08/12/2024 / Rahul      | 07/23/2024 / RAHUL          | S12453         |

[CS 4978-1]

| Supplier | ItemCode / ItemName                                                                                   | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|-------------------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 555223 / Custom 8270 Plus Std #1 [2nd lot at \$100 per ampul if requested - contact ARM with Request] | A0214021 | 05/14/2025      | 11/14/2024 / anahy      | 07/23/2024 / RAHUL          | S12469         |

[CS 4978-1]

| Supplier | ItemCode / ItemName                                                                                  | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|------------------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 555224 / Custom 8270 Plus Std #2 [2nd lot at \$85 per ampul if requested - contact ARM with Request] | A0214017 | 05/14/2025      | 11/14/2024 / anahy      | 07/23/2024 / RAHUL          | S12517         |

[CS 4978-2]

| Supplier         | ItemCode / ItemName | Lot #               | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------|---------------------|---------------------|-----------------|-------------------------|-----------------------------|----------------|
| Seidler Chemical | DIW / DI Water      | Daily Lab-Certified | 07/03/2029      | 07/03/2024 / Iwona      | 07/03/2024 / Iwona          | W3112          |



5580 Skylane Blvd  
Santa Rosa, CA 95403

(707)525-5788  
(800)878-7654 Toll Free  
(707)545-7901 Fax

Manufacturer's Quality System  
Audited & Registered  
by TUV USA to ISO 9001:2015

Date Received: \_\_\_\_\_

## Certificate of Analysis

Rev 0

Page 1 of 1

**Catalog No.:** Lot No.: **Storage:** **Solvent:** **Exp. Date:** **Description:**  
Z-112090 440246  $\leq -10^{\circ}\text{C}$  Methylene Chloride 2/16/2026 CLP Acid Surrogate Solution, 7,500 mg/L, 1 mL  
-04

| Compound                      | CAS No.    | Purity (%) | Compound Lot No. | Concentration, mg/L |
|-------------------------------|------------|------------|------------------|---------------------|
| 2-chlorophenol-d <sub>4</sub> | 93951-73-6 | 99.3       | 248.12.7P        | 7487 $\pm$ 17.2     |
| 2-fluorophenol                | 367-12-4   | 99.8       | 10.7.3.3P        | 7513 $\pm$ 17.26    |
| phenol-d <sub>6</sub>         | 13127-88-3 | 99.9       | 949.120.8P       | 7481 $\pm$ 17.19    |
| 2,4,6-tribromophenol          | 118-79-6   | 99.8       | 12.1.6P          | 7469 $\pm$ 17.17    |

Received on

02/25/21

by  
CG

S9236  
to

S9240

\*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

All weights are traceable through N. I. S. T. Test No. 822/264157-00.  
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

Certified By: \_\_\_\_\_

Erica Castiglione  
Chemist



5580 Skylane Blvd  
Santa Rosa, CA 95403

(707)525-5788  
(800)878-7654 Toll Free  
(707)545-7901 Fax

Receivalon  
02/07/23 by CG

Sheet S11096  
to  
S11099

Manufacturer's Quality System  
Audited & Registered  
by TUV USA to ISO 9001:2015

Date Received: \_\_\_\_\_

## Certificate of Analysis

Rev 0

Page 1 of 4

| Catalog No.: | Lot No.: | Storage: | Solvent:           | Exp. Date: | Description:                                                   |
|--------------|----------|----------|--------------------|------------|----------------------------------------------------------------|
| Z-110381-01  | 495831   | ≤ -10 °C | Methylene Chloride | 10/30/2027 | 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          | 1003 ± 17.27        |
| acenaphthylene                    | 208-96-8 | 97.6       | 14.290.1P        | 999.8 ± 17.22       |
| aniline                           | 62-53-3  | 99.9       | 64.7.1P          | 995 ± 17.13         |
| anthracene                        | 120-12-7 | 99.5       | 15.7.1P          | 1001 ± 17.24        |
| azobenzene                        | 103-33-3 | 98.1       | 252.7.2P         | 999.1 ± 17.21       |
| benzo[a]anthracene                | 56-55-3  | 100        | 16.7.3P          | 1001 ± 17.24        |
| benzo[b]fluoranthene              | 205-99-2 | 99.8       | 17.421.3P        | 1001 ± 19.91        |
| benzo[k]fluoranthene              | 207-08-9 | 98.9       | 18.421.4P        | 1001 ± 17.92        |
| benzo[ghi]perylene                | 191-24-2 | 93         | 19.286.4P        | 999.6 ± 19.88       |
| benzo[a]pyrene                    | 50-32-8  | 97         | 20.286.2P        | 999.1 ± 26.35       |
| benzyl alcohol                    | 100-51-6 | 99.9       | 65.18.1P         | 1001 ± 17.24        |
| bis(2-chloroethoxy)methane        | 111-91-1 | 99.1       | 31.3.15P         | 999.7 ± 17.89       |
| bis(2-chloroethyl)ether           | 111-44-4 | 99.8       | 32.7.1P          | 1001 ± 17.23        |
| bis(2-chloro-1-methylethyl) ether | 108-60-1 | 99.5       | 34.3.13P         | 999.5 ± 17.89       |
| bis(2-ethylhexyl)adipate          | 103-23-1 | 99.5       | 874.7.1P         | 999.5 ± 17.21       |
| bis(2-ethylhexyl)phthalate        | 117-81-7 | 99.4       | 33.29.1P         | 998.8 ± 19.86       |
| 4-bromophenyl phenyl ether        | 101-55-3 | 99.4       | 35.7.1P          | 999.1 ± 17.2        |
| butyl benzyl phthalate            | 85-68-7  | 98.4       | 36.1.6P          | 984.7 ± 19.58       |
| carbazole                         | 86-74-8  | 99.4       | 239.7.2P         | 1000 ± 17.22        |

\*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

*Brianna Smith*

Certified By: \_\_\_\_\_

Brianna Smith  
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.: 495831

Expiration Date: 10/30/2027

| <u>Compound</u>        | <u>CAS No.</u> | <u>Purity (%)</u> | <u>Compound Lot No.</u> | <u>Concentration, mg/L</u> |
|------------------------|----------------|-------------------|-------------------------|----------------------------|
| 1,2,4-trichlorobenzene | 120-82-1       | 99.6              | 54.29.1P                | 1000 ± 17.22               |
| 2,4,5-trichlorophenol  | 95-95-4        | 96.5              | 121.7.1.1P              | 1000 ± 17.22               |
| 2,4,6-trichlorophenol  | 88-06-2        | 99.6              | 113.7.1P                | 1002 ± 17.25               |

\*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By:



Briana Smith  
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: (800)356-1688  
Fax: (814)353-1309

www.restek.com

# CERTIFIED REFERENCE MATERIAL

## Certificate of Analysis



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

Received on  
03/10/22  
by  
CG  
S10242  
to  
S10247

**Catalog No. :** 31615 **Lot No.:** A0182667  
**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 :** March 31, 2025 **Storage:** 10°C or colder  
**Handling:** Contains carcinogen/reproductive toxin. **Ship:** Ambient

### CERTIFIED VALUES

| Elution Order | Compound                                                                             | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2)                                                       |
|---------------|--------------------------------------------------------------------------------------|-----------------------------|--------------------------------------------------------------------------------------------|
| 1             | Pentachlorophenol<br>CAS # 87-86-5 (Lot 211229RSR)<br>Purity 99%                     | 1,003.6 µg/mL               | +/- 5.8897 µg/mL Gravimetric<br>+/- 45.7132 µg/mL Unstressed<br>+/- 66.0037 µg/mL Stressed |
| 2             | DFTPP (Decafluorotriphenylphosphine)<br>CAS # 5074-71-5 (Lot Q117-147)<br>Purity 95% | 1,006.6 µg/mL               | +/- 5.9074 µg/mL Gravimetric<br>+/- 45.8508 µg/mL Unstressed<br>+/- 66.2023 µg/mL Stressed |
| 3             | Benzidine<br>CAS # 92-87-5 (Lot 211228JLM)<br>Purity 99%                             | 1,008.4 µg/mL               | +/- 5.9179 µg/mL Gravimetric<br>+/- 45.9318 µg/mL Unstressed<br>+/- 66.3193 µg/mL Stressed |
| 4             | 4,4'-DDT<br>CAS # 50-29-3 (Lot 210916JLM)<br>Purity 99%                              | 1,007.6 µg/mL               | +/- 5.9132 µg/mL Gravimetric<br>+/- 45.8954 µg/mL Unstressed<br>+/- 66.2667 µg/mL Stressed |

**Solvent:** Methylene chloride  
CAS # 75-09-2  
Purity 99%

**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:**

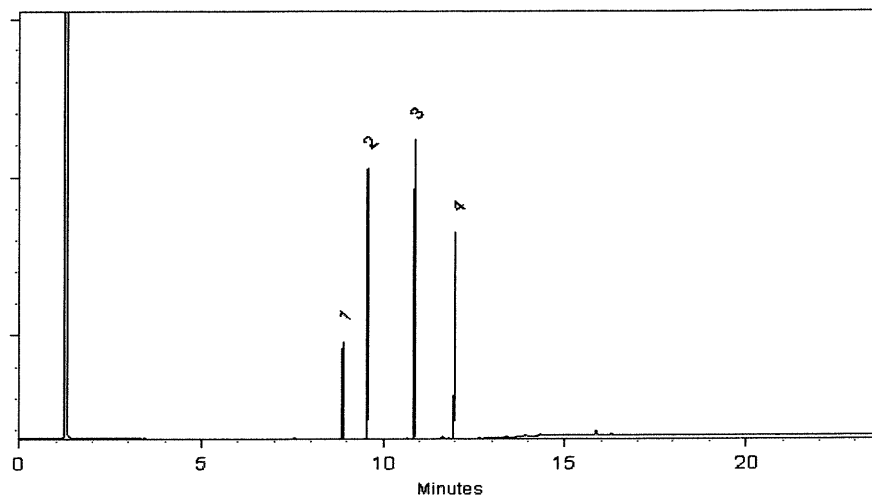
250°C

**Det. Temp:**

330°C

**Det. Type:**

FID



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.

Morgan Craighead - Mix Technician

Date Mixed: 08-Mar-2022

Balance: B345965662

Marlene Cowan - Operations Tech I

Date Passed: 10-Mar-2022

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397



# CERTIFIED REFERENCE MATERIAL

110 Benner Circle  
Bellefonte, PA 16823-8812  
Tel: (800)356-1688  
Fax: (814)353-1309

www.restek.com

## Certificate of Analysis



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

Received on  
02/08/23

b1

CG

S 11071

to

S 11075

Catalog No. : 31853 Lot No.: A0187043  
Description : 1,4-dioxane  
1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul  
Container Size : 2 mL Pkg Amt: > 1 mL  
Expiration Date : July 31, 2027 Storage: 0°C or colder  
Ship: Ambient

### CERTIFIED VALUES

| Elution Order | Compound                                                      | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2)                                                        |
|---------------|---------------------------------------------------------------|-----------------------------|---------------------------------------------------------------------------------------------|
| 1             | 1,4-Dioxane<br>CAS # 123-91-1<br>Purity 99%<br>(Lot SHBN5929) | 2,019.0 µg/mL               | +/- 11.8486 µg/mL Gravimetric<br>+/- 43.2570 µg/mL Unstressed<br>+/- 44.5129 µg/mL Stressed |

Solvent: Methylene chloride  
CAS # 75-09-2  
Purity 99%



**Column:**

105m x 0.53mm x 3.0µm  
Rtx-502.2 (cat.#10910)

**Carrier Gas:**

hydrogen-constant pressure 11.0 psi.

**Temp. Program:**

40°C (hold 2 min.) to 240°C  
@ 8°C/min. (hold 5 min.)

**Inj. Temp:**

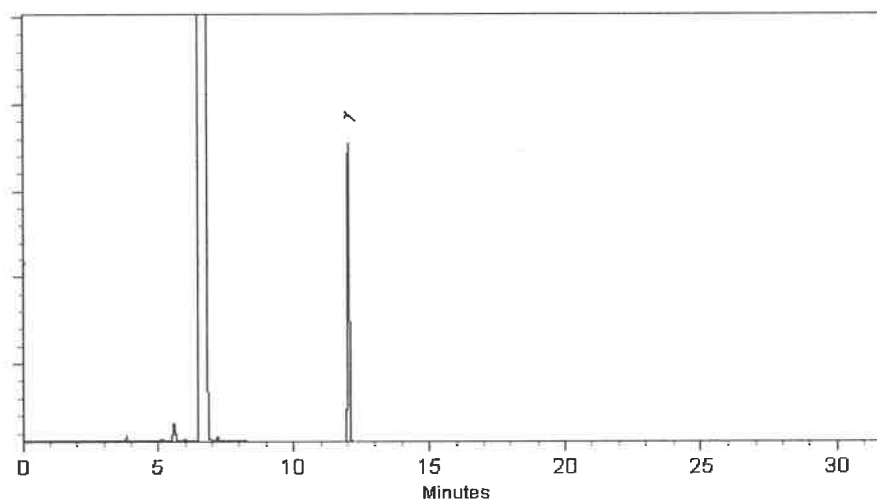
200°C

**Det. Temp:**

250°C

**Det. Type:**

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brittany Federinko - Operations Tech I

Date Mixed: 07-Jul-2022

Balance: 1128360905

Marlina Cowan - Operations Tech II ARM QC

Date Passed: 12-Jul-2022

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397



110 Benner Circle  
Bellefonte, PA 16823-8812  
Tel: 1-814-353-1300  
Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

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.:** A0193449  
**Description:** Custom Pentachlorophenol Standard  
Custom Pentachlorophenol Standard 25,000µg/mL, Methanol,  
1mL/ampul  
**Container Size:** 2 mL **Pkg Amt:** > 1 mL  
**Expiration Date:** January 31, 2026 **Storage:** 10°C or colder  
**Ship:** Ambient

Received on  
01/13/23  
by  
CG  
S11011  
+0  
S11015

## CERTIFIED VALUES

| Component # | Compound          | CAS #   | Lot #    | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|-------------|-------------------|---------|----------|--------|-----------------------------|----------------------------------------|
| 1           | Pentachlorophenol | 87-86-5 | RP221012 | 99%    | 25,050.0 µg/mL              | +/- 778.6378                           |

**Solvent:** Methanol  
**CAS #** 67-56-1  
**Purity** 99%

*Russ Bookhamer*

Russ Bookhamer - Operations Technician I

**Date Mixed:** 11-Jan-2023

**Balance:** B442140311

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ $\mu$ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

$k$  is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



**PRODUCTOS  
QUÍMICOS  
MONTERREY, S.A. DE C.V.**

MIRADOR 201, COL. MIRADOR  
MONTERREY, N.L. MEXICO  
CP 64070  
TEL +52 81 13 52 57 57  
www.pqm.com.mx

## CERTIFICATE OF ANALYSIS

|                        |                                   |               |                                 |
|------------------------|-----------------------------------|---------------|---------------------------------|
| PRODUCT :              | SODIUM SULFATE CRYSTALS ANHYDROUS |               |                                 |
| QUALITY :              | ACS (CODE RMB3375)                | FORMULA :     | Na <sub>2</sub> SO <sub>4</sub> |
| SPECIFICATION NUMBER : | 6399                              | RELEASE DATE: | ABR/21/2023                     |
| LOT NUMBER :           | 313201                            |               |                                 |

| TEST                                     | SPECIFICATIONS | LOT VALUES  |
|------------------------------------------|----------------|-------------|
| Assay (Na <sub>2</sub> SO <sub>4</sub> ) | Min. 99.0%     | 99.7 %      |
| pH of a 5% solution at 25°C              | 5.2 - 9.2      | 6.1         |
| Insoluble matter                         | Max. 0.01%     | 0.005 %     |
| Loss on ignition                         | Max. 0.5%      | 0.1 %       |
| Chloride (Cl)                            | Max. 0.001%    | <0.001 %    |
| Nitrogen compounds (as N)                | Max. 5 ppm     | <5 ppm      |
| Phosphate (PO <sub>4</sub> )             | Max. 0.001%    | <0.001 %    |
| Heavy metals (as Pb)                     | Max. 5 ppm     | <5 ppm      |
| Iron (Fe)                                | Max. 0.001%    | <0.001 %    |
| Calcium (Ca)                             | Max. 0.01%     | 0.002 %     |
| Magnesium (Mg)                           | Max. 0.005%    | 0.001 %     |
| Potassium (K)                            | Max. 0.008%    | 0.003 %     |
| Extraction-concentration suitability     | Passes test    | Passes test |
| Appearance                               | Passes test    | Passes test |
| Identification                           | Passes test    | Passes test |
| Solubility and foreign matter            | Passes test    | Passes test |
| Retained on US Standard No. 10 sieve     | Max. 1%        | 0.1 %       |
| Retained on US Standard No. 60 sieve     | Min. 94%       | 97.3 %      |
| Through US Standard No. 60 sieve         | Max. 5%        | 2.5 %       |
| Through US Standard No. 100 sieve        | Max. 10%       | 0.1 %       |

### COMMENTS

QC: PhC Irma Belmares

If you need further details, please call our factory or contact our local distributor.

Recd. by R3 on 7/24/23 E 3551

RC-02-01, Ed. 3



# Certificate of Analysis

## Sodium Hydroxide (Pellets)

**Material:** 0583  
**Grade:** ACS GRADE  
**Batch Number:** 23B1556310

**Chemical Formula:** NaOH  
**Molecular Weight:** 40  
**CAS #:** 1310-73-2  
**Appearance:**

**Manufacture Date:** 12/14/2022  
**Expiration Date:** 12/31/2025

**Storage:** Room Temperature

Pellets

| TEST               | SPECIFICATION          | ANALYSIS            | DISPOSITION |
|--------------------|------------------------|---------------------|-------------|
| Calcium            | $\leq 0.005 \%$        | $< 0.005 \%$        | PASS        |
| Chloride           | $\leq 0.005 \%$        | 0.002 %             | PASS        |
| Heavy Metals       | $\leq 0.002 \%$        | $< 0.002 \%$        | PASS        |
| Iron               | $\leq 0.001 \%$        | $< 0.001 \%$        | PASS        |
| Magnesium          | $\leq 0.002 \%$        | $< 0.002 \%$        | PASS        |
| Mercury            | $\leq 0.1 \text{ ppm}$ | $< 0.1 \text{ ppm}$ | PASS        |
| Nickel             | $\leq 0.001 \%$        | $< 0.001 \%$        | PASS        |
| Nitrogen Compounds | $\leq 0.001 \%$        | $< 0.001 \%$        | PASS        |
| Phosphate          | $\leq 0.001 \%$        | $< 0.001 \%$        | PASS        |
| Potassium          | $\leq 0.02 \%$         | $< 0.02 \%$         | PASS        |
| Purity             | $\geq 97.0 \%$         | 99.2 %              | PASS        |
| Sodium Carbonate   | $\leq 1.0 \%$          | 0.5 %               | PASS        |
| Sulfate            | $\leq 0.003 \%$        | $< 0.003 \%$        | PASS        |

Internal ID #: 710

### Signature

We certify that this batch conforms to the specifications listed.

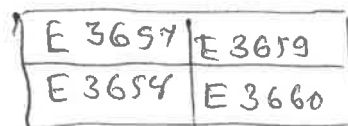
This document has been electronically produced and is valid without a signature.

Leona Edwardson, Quality Control Sr. Manager - Solon  
VWR Chemicals, LLC.  
28600 Fountain Parkway, Solon OH 44139 USA

### Additional Information

Analysis may have been rounded to significant digits in specification limits.

Product meets analytical specifications of the grades listed.



Methylene Chloride  
ULTRA RESI-ANALYZED  
For Organic Residue Analysis  
(dichloromethane)



Material No.: 9266-A4  
Batch No.: 24D1962005  
Manufactured Date: 2024-03-16  
Expiration Date: 2025-06-15  
Revision No.: 0

## Certificate of Analysis

| Test                                                                                       | Specification          | Result   |
|--------------------------------------------------------------------------------------------|------------------------|----------|
| FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)                       | $\leq 5$               | < 1      |
| ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)                       | $\leq 10$              | 8        |
| Assay ( $\text{CH}_2\text{Cl}_2$ ) (by GC, exclusive of preservative, corrected for water) | $\geq 99.8 \%$         | 99.9 %   |
| Color (APHA)                                                                               | $\leq 10$              | 5        |
| Residue after Evaporation                                                                  | $\leq 1.0 \text{ ppm}$ | 0.1 ppm  |
| Titration Acid ( $\mu\text{eq/g}$ )                                                        | $\leq 0.3$             | < 0.1    |
| Chloride (Cl)                                                                              | $\leq 10 \text{ ppm}$  | < 5 ppm  |
| Water (by KF, coulometric)                                                                 | $\leq 0.02 \%$         | < 0.01 % |

For Laboratory, Research, or Manufacturing Use  
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA  
Packaging Site: Phillipsburg Mfg Ctr & DC  
Manufacturer source batch: MG24C16563

E 3759

Jamie Croak  
Director Quality Operations, Bioscience Production

Methylene Chloride  
ULTRA RESI-ANALYZED  
For Organic Residue Analysis  
(dichloromethane)



Material No.: 9266-A4  
Batch No.: 24E2462004  
Manufactured Date: 2024-04-10  
Expiration Date: 2025-07-10  
Revision No.: 0

## Certificate of Analysis

| Test                                                                                       | Specification          | Result   |
|--------------------------------------------------------------------------------------------|------------------------|----------|
| FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)                       | $\leq 5$               | 3        |
| ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)                       | $\leq 10$              | 3        |
| 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                                                                  | $\leq 1.0 \text{ ppm}$ | 0.1 ppm  |
| Titration Acid ( $\mu\text{eq/g}$ )                                                        | $\leq 0.3$             | < 0.1    |
| Chloride (Cl)                                                                              | $\leq 10 \text{ ppm}$  | 5 ppm    |
| Water (by KF, coulometric)                                                                 | $\leq 0.02 \%$         | < 0.01 % |

For Laboratory, Research, or Manufacturing Use  
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA  
Packaging Site: Phillipsburg Mfg Ctr & DC  
Manufacturer source batch: MG24D10725

E 3768

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.: 23H1462005  
Manufactured Date: 2023-07-26  
Expiration Date: 2026-07-25  
Revision No.: 0

## Certificate of Analysis

| Test                                                                    | Specification | Result      |
|-------------------------------------------------------------------------|---------------|-------------|
| Assay ((CH <sub>3</sub> ) <sub>2</sub> CO) (by GC, corrected for water) | ≥ 99.4 %      | 99.7 %      |
| Color (APHA)                                                            | ≤ 10          | 5           |
| Residue after Evaporation                                               | ≤ 1.0 ppm     | 0.3 ppm     |
| Substances Reducing Permanganate                                        | Passes Test   | Passes Test |
| Titration Acid (μeq/g)                                                  | ≤ 0.3         | 0.1         |
| Titration Base (μeq/g)                                                  | ≤ 0.6         | < 0.1       |
| Water (H <sub>2</sub> O)                                                | ≤ 0.5 %       | 0.3 %       |
| 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: USA  
Packaging Site: Phillipsburg Mfg Ctr & DC

Recd by RP on 8/13/24

E 3788

Ken Koehnlein  
Sr. Manager, Quality Assurance



Methylene Chloride  
ULTRA RESI-ANALYZED  
For Organic Residue Analysis  
(dichloromethane)



Material No.: 9266-A4  
Batch No.: 24G2362009  
Manufactured Date: 2024-06-10  
Expiration Date: 2025-09-09  
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 Heptachlor Epoxide) Single Peak (pg/mL)                             | $\leq 10$              | 1        |
| Assay (CH <sub>2</sub> Cl <sub>2</sub> ) (by GC, exclusive of preservative, corrected for water) | $\geq 99.8 \%$         | 100.0 %  |
| Color (APHA)                                                                                     | $\leq 10$              | 5        |
| Residue after Evaporation                                                                        | $\leq 1.0 \text{ ppm}$ | 0.3 ppm  |
| Titration Acid ( $\mu\text{eq/g}$ )                                                              | $\leq 0.3$             | < 0.1    |
| Chloride (Cl)                                                                                    | $\leq 10 \text{ ppm}$  | < 5 ppm  |
| Water (by KF, coulometric)                                                                       | $\leq 0.02 \%$         | < 0.01 % |

For Laboratory, Research, or Manufacturing Use  
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA  
Packaging Site: Phillipsburg Mfg Ctr & DC  
Manufacturer source batch: MG24F10024

E 3791

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  
Page 1 of 1

Methylene Chloride  
ULTRA RESI-ANALYZED  
For Organic Residue Analysis  
(dichloromethane)



Material No.: 9266-A4

Batch No.: 24H2762011

Manufactured Date: 2024-06-05

Expiration Date: 2025-09-04

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)                        | $\leq 10$      | 5          |
| 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 | 0.3 ppm    |
| Titration Acid ( $\mu\text{eq/g}$ )                                                        | $\leq 0.3$     | $< 0.1$    |
| Chloride (Cl)                                                                              | $\leq 10$ ppm  | $< 5$ ppm  |
| Water (by KF, coulometric)                                                                 | $\leq 0.02\%$  | $< 0.01\%$ |

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E 3817

Jamie Croak  
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC

Acetone  
BAKER RESI-ANALYZED® Reagent  
For Organic Residue Analysis

avantor



Material No.: 9254-03  
Batch No.: 24H1462005  
Manufactured Date: 2024-05-24  
Expiration Date: 2027-05-24  
Revision No.: 0

## Certificate of Analysis

| Test                                                                   | Specification | Result      |
|------------------------------------------------------------------------|---------------|-------------|
| Assay ((CH <sub>3</sub> ) <sub>2</sub> CO) (by GC, corrected forwater) | >= 99.4 %     | 99.8 %      |
| Color (APHA)                                                           | <= 10         | 5           |
| Residue after Evaporation                                              | <= 1.0 ppm    | 0.2 ppm     |
| Substances Reducing Permanganate                                       | Passes Test   | Passes Test |
| Titration Acid (µeq/g)                                                 | <= 0.3        | 0.2         |
| Titration Base (µeq/g)                                                 | <= 0.6        | <0.1        |
| Water (H <sub>2</sub> O)                                               | <= 0.5 %      | 0.2 %       |
| FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)    | <= 5          | <1          |
| ECD Sensitive Impurities (as HeptachlorEpoxide) 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 10/9/24

E 3818

*J. Croak*

Jamie Croak  
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA, 19087, U.S.A. Phone 610.386.1700

Methylene Chloride  
ULTRA RESI-ANALYZED  
For Organic Residue Analysis  
(dichloromethane)

 **avantors**™



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 Heptachlor Epoxide) 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

Methylene Chloride  
ULTRA RESI-ANALYZED  
For Organic Residue Analysis  
(dichloromethane)



Material No.: 9266-A4

Batch No.: 24H2762011

Manufactured Date: 2024-06-05

Expiration Date: 2025-09-04

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)                        | $\leq 10$      | 5          |
| 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 | 0.3 ppm    |
| Titration Acid ( $\mu\text{eq/g}$ )                                                        | $\leq 0.3$     | $< 0.1$    |
| Chloride (Cl)                                                                              | $\leq 10$ ppm  | $< 5$ ppm  |
| Water (by KF, coulometric)                                                                 | $\leq 0.02\%$  | $< 0.01\%$ |

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E 3845

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

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 Skyline Blvd  
Santa Rosa, CA 95403

(707)525-5788  
(800)878-7654 Toll Free  
(707)545-7901 Fax

Manufacturer's Quality System  
Audited & Registered  
by TUV USA to ISO 9001:2015

Date Received: \_\_\_\_\_

## Certificate of Analysis

Page 1 of 1

| Catalog No.: Lot No.:              | Storage: | Solvent:           | Exp. Date: | Rev              | Description:                                          |
|------------------------------------|----------|--------------------|------------|------------------|-------------------------------------------------------|
| Z-110094-02 506889                 | ≤ -10 °C | Methylene Chloride | 7/25/2028  | 0                | 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.  
↓ 08/11/2023  
511498

\*Not a certified value

Certified By: \_\_\_\_\_  
Clint Tipton  
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.  
Concentration (correct for purity) and uncertainty (95% confidence) values  
listed are determined gravimetrically.







110 Benner Circle  
Bellefonte, PA 16823-8812  
Tel: 1-814-353-1300  
Fax: 1-814-353-1309

www.restek.com

## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

chromatographic plus



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

**Catalog No. :** 31853 **Lot No.:** A0196453  
**Description :** 1,4-dioxane  
1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul  
**Container Size :** 2 mL **Pkg Amt:** > 1 mL  
**Expiration Date :** March 31, 2028 **Storage:** 0°C or colder  
**Ship:** Ambient

S11749  
↓  
S11794 } RC / 11/30/23

### CERTIFIED VALUES

| Elution Order | Compound    | CAS #    | Lot #    | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|-------------|----------|----------|--------|-----------------------------|----------------------------------------|
| 1             | 1,4-Dioxane | 123-91-1 | SHBN3770 | 99%    | 2,013.0 µg/mL               | +/- 25.0521                            |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

## Quality Confirmation Test

**Column:**

30m x 0.25mm x 0.25µm  
Rtx-5 (cat.#10223)

**Carrier Gas:**

hydrogen-constant flow 1.8 mL/min.

**Temp. Program:**

80°C (hold 0.1 min.) to 330°C  
@ 9.6°C/min. (hold 2.86 min.)

**Inj. Temp:**

250°C

**Det. Temp:**

340°C

**Det. Type:**

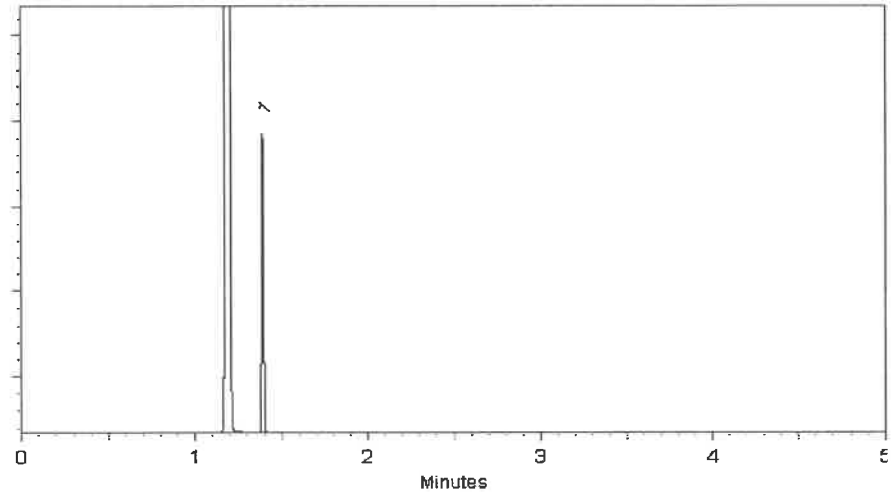
FID

**Split Vent:**

100 ml/min.

**Inj. Vol**

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

*Sam Moodler*  
Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023

Balance Serial # B707717271

*Jennifer Pollino*  
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-2023

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

$k$  is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.





110 Benner Circle  
Bellefonte, PA 16823-8812  
Tel: 1-814-353-1300  
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

chromatographic plus



## FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 33913 **Lot No.:** A0201976

**Description :** SOM01.0 SIM Analysis Standard  
SOM01.0 SIM Analysis Standard 2000µg/mL, Methylene chloride, 1mL /ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** August 31, 2029 **Storage:** 10°C or colder

**Handling:** Sonication required. Mix is photosensitive. **Ship:** Ambient

S11828  
↓  
S11832 } RC/  
11/30/23

## CERTIFIED VALUES

| Elution Order | Compound                | CAS #      | Lot #    | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|-------------------------|------------|----------|--------|-----------------------------|----------------------------------------|
| 1             | 2-Methylnaphthalene-d10 | 7297-45-2  | EF-135   | 98%    | 2,015.9 µg/mL               | +/- 90.8098                            |
| 2             | Fluoranthene-d10        | 93951-69-0 | PR-32557 | 99%    | 2,020.0 µg/mL               | +/- 90.9963                            |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

## Quality Confirmation Test

**Column:**

30m x 0.25mm x 0.25µm  
Rtx-5 (cat.#10223)

**Carrier Gas:**

hydrogen-constant pressure 10 psi.

**Temp. Program:**

75°C (hold 1 min.) to 330°C  
@ 20°C/min. (hold 10 min.)

**Inj. Temp:**

250°C

**Det. Temp:**

330°C

**Det. Type:**

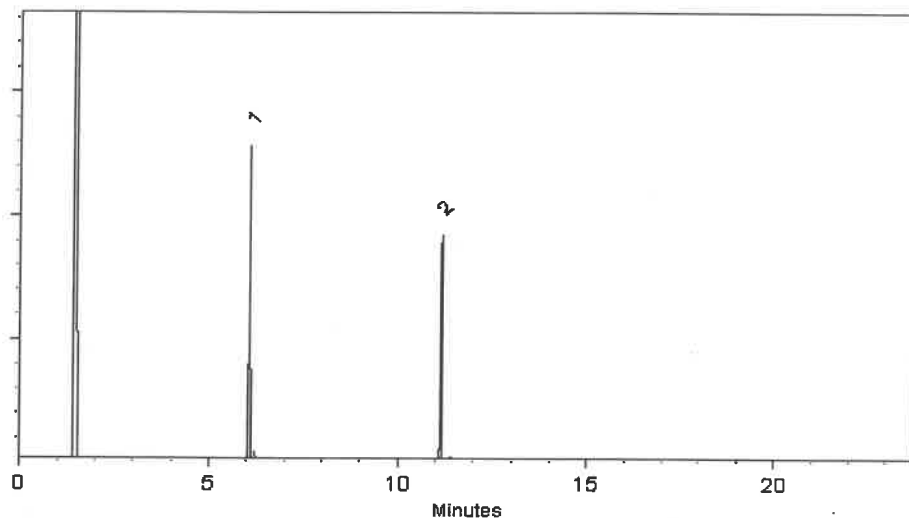
FID

**Split Vent:**

10 ml/min.

**Inj. Vol**

1µl

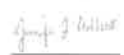


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

  
Dakota Parson - Operations Technician I

Date Mixed: 13-Sep-2023

Balance Serial # B442140311

  
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 28-Sep-2023

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

$k$  is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.





110 Benner Circle  
Bellefonte, PA 16823-8812  
Tel: 1-814-353-1300  
Fax: 1-814-353-1309

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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

chromatographic plus



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31206 **Lot No.:** A0201320

**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 :** July 31, 2029 **Storage:** 10°C or colder

**Handling:** Sonication required. Mix is photosensitive. **Ship:** Ambient

S12013  
↓  
S12042 } RC  
12/26/23

### 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%    | 2,017.0 µg/mL               | +/- 90.8469                            |
| 2             | Naphthalene-d8         | 1146-65-2  | M-2180   | 99%    | 2,011.3 µg/mL               | +/- 90.5917                            |
| 3             | Acenaphthene-d10       | 15067-26-2 | PR-33507 | 99%    | 2,008.6 µg/mL               | +/- 90.4685                            |
| 4             | Phenanthrene-d10       | 1517-22-2  | PR-32303 | 99%    | 2,019.4 µg/mL               | +/- 90.9550                            |
| 5             | Chrysene-d12           | 1719-03-5  | PR-32210 | 99%    | 2,013.7 µg/mL               | +/- 90.6968                            |
| 6             | Perylene-d12           | 1520-96-3  | PR-33205 | 99%    | 2,012.7 µg/mL               | +/- 90.6517                            |

\* 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:**

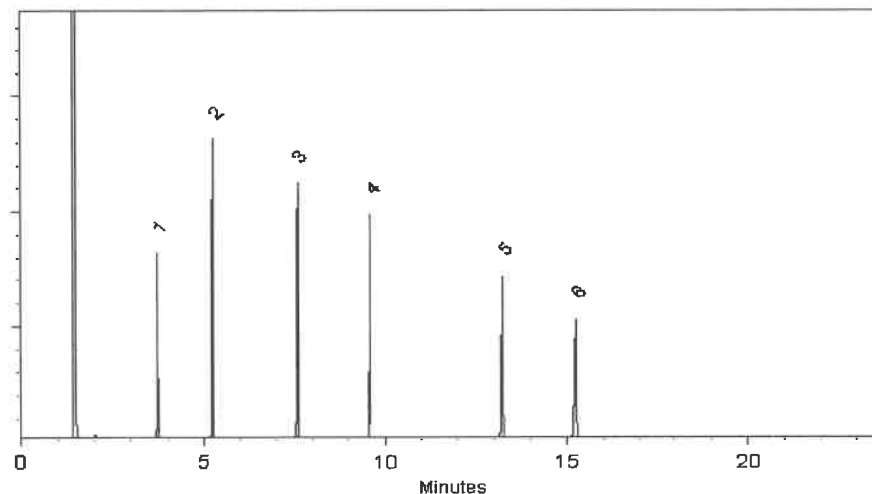
FID

**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.

Peter Robbins - Operations Technician I

Date Mixed: 23-Aug-2023

Balance Serial # B345965662

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 25-Aug-2023

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397



5580 Skylane Blvd  
Santa Rosa, CA 95403

(707)525-5788  
(800)878-7654 Toll Free  
(707)545-7901 Fax

Manufacturer's Quality System  
Audited & Registered  
by TUV USA to ISO 9001:2015

Date Received: \_\_\_\_\_

## Certificate of Analysis

Rev 0

Page 1 of 1

|                     |                 |                 |                    |                   |                                           |
|---------------------|-----------------|-----------------|--------------------|-------------------|-------------------------------------------|
| <b>Catalog No.:</b> | <b>Lot No.:</b> | <b>Storage:</b> | <b>Solvent:</b>    | <b>Exp. Date:</b> | <b>Description:</b>                       |
| 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          |

912075 } RC  
↓  
912079 } 02/01/24

\*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.



5580 Skylane Blvd  
Santa Rosa, CA 95403

(707)525-5788  
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Manufacturer's Quality System  
Audited & Registered  
by TUV USA to ISO 9001:2015

Date Received: \_\_\_\_\_

## Certificate of Analysis

Rev 0

Page 1 of 1

|                     |                 |                 |                    |                   |                                           |
|---------------------|-----------------|-----------------|--------------------|-------------------|-------------------------------------------|
| <b>Catalog No.:</b> | <b>Lot No.:</b> | <b>Storage:</b> | <b>Solvent:</b>    | <b>Exp. Date:</b> | <b>Description:</b>                       |
| Z-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 |
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| 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          |

912075 } RC  
↓  
912079 } 02/01/24

\*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  
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110 Benner Circle  
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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.:** A0207706

**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 :** February 28, 2026 **Storage:** 10°C or colder

**Ship:** Ambient

512082 } RC/  
↓  
512111 } 02/22/24

### 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%    | 1,001.0 µg/mL               | +/- 29.424320                          |
| 2           | Acetophenone               | 98-86-2  | STBH8205     | 99%    | 1,004.0 µg/mL               | +/- 29.512504                          |
| 3           | Benzaldehyde               | 100-52-7 | RD231129RSRA | 99%    | 1,005.0 µg/mL               | +/- 29.541899                          |
| 4           | Benzoic acid               | 65-85-0  | MKCR2694     | 99%    | 1,003.0 µg/mL               | +/- 29.483110                          |
| 5           | Biphenyl                   | 92-52-4  | MKCL6515     | 99%    | 1,006.0 µg/mL               | +/- 29.571294                          |

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

John Friedline - Operations Technician I

Date Mixed: 12-Feb-2024

Balance: B345965662



5580 Skylane Blvd  
Santa Rosa, CA 95403

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Manufacturer's Quality System  
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by TUV USA to ISO 9001:2015

Date Received: \_\_\_\_\_

## Certificate of Analysis

Rev 0

Page 1 of 1

| Catalog No.: | Lot No.: | Storage: | Solvent:     | Exp. Date: | Description:                             |                     |
|--------------|----------|----------|--------------|------------|------------------------------------------|---------------------|
| Z-020223-01  | 454157   | ≤ -10 °C | P/T Methanol | 6/10/2026  | 1,4-Dioxane Solution, 2000 mg/L,<br>1 mL |                     |
| Compound     |          |          | CAS No.      | Purity (%) | Compound Lot No.                         | Concentration, mg/L |
| 1,4-dioxane  |          |          | 123-91-1     | 100        | 223.1.3P                                 | 1997 ± 57.08        |

512112 } RC/  
↓  
912116 } 03/08/24

\*Not a certified value

Certified By: \_\_\_\_\_

Melissa Workoff  
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.  
Concentration (correct for purity) and uncertainty (95% confidence) values  
listed are determined gravimetrically.



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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

chromatographic plus



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31850 **Lot No.:** A0203726

**Description :** 8270 MegaMix®  
8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** April 30, 2025 **Storage:** 0°C or colder

**Handling:** Sonication required. Mix is photosensitive. **Ship:** Ambient

512117 } RC/  
↓ 03/18/24  
512146 }

### 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%    | 1,001.6 µg/mL               | +/- 36.4412                            |
| 2             | N-Nitrosodimethylamine       | 62-75-9  | 230209JLM   | 99%    | 1,005.9 µg/mL               | +/- 36.5968                            |
| 3             | Phenol                       | 108-95-2 | MKCK1120    | 99%    | 1,003.3 µg/mL               | +/- 36.5038                            |
| 4             | Aniline                      | 62-53-3  | X22F726     | 99%    | 1,005.8 µg/mL               | +/- 36.5928                            |
| 5             | Bis(2-chloroethyl)ether      | 111-44-4 | SHBL6942    | 99%    | 1,008.1 µg/mL               | +/- 36.6776                            |
| 6             | 2-Chlorophenol               | 95-57-8  | STBJ3909    | 99%    | 1,001.8 µg/mL               | +/- 36.4492                            |
| 7             | 1,3-Dichlorobenzene          | 541-73-1 | BCCD5315    | 99%    | 1,002.3 µg/mL               | +/- 36.4654                            |
| 8             | 1,4-Dichlorobenzene          | 106-46-7 | MKBS7929V   | 99%    | 1,003.7 µg/mL               | +/- 36.5159                            |
| 9             | Benzyl alcohol               | 100-51-6 | SHBK5469    | 99%    | 1,008.7 µg/mL               | +/- 36.6979                            |
| 10            | 1,2-Dichlorobenzene          | 95-50-1  | SHBN3835    | 99%    | 1,000.3 µg/mL               | +/- 36.3926                            |
| 11            | 2-Methylphenol (o-cresol)    | 95-48-7  | SHBN7598    | 99%    | 1,003.5 µg/mL               | +/- 36.5099                            |
| 12            | 2,2'-oxybis(1-chloropropane) | 108-60-1 | 29-MAR-45-5 | 99%    | 1,007.3 µg/mL               | +/- 36.6493                            |
| 13            | 3-Methylphenol (m-cresol)    | 108-39-4 | STBJ0710    | 99%    | 504.3 µg/mL                 | +/- 18.3500                            |
| 14            | 4-Methylphenol (p-cresol)    | 106-44-5 | SHBN3411    | 99%    | 503.6 µg/mL                 | +/- 18.3237                            |
| 15            | N-Nitroso-di-n-propylamine   | 621-64-7 | N63MG       | 99%    | 1,008.3 µg/mL               | +/- 36.6857                            |
| 16            | Hexachloroethane             | 67-72-1  | QTORH       | 99%    | 1,007.5 µg/mL               | +/- 36.6554                            |
| 17            | Nitrobenzene                 | 98-95-3  | 10224044    | 99%    | 1,008.6 µg/mL               | +/- 36.6938                            |

|    |                                               |           |             |     |         |       |             |
|----|-----------------------------------------------|-----------|-------------|-----|---------|-------|-------------|
| 18 | Isophorone                                    | 78-59-1   | MKCC9506    | 99% | 1,005.9 | µg/mL | +/- 36.5988 |
| 19 | 2-Nitrophenol                                 | 88-75-5   | RP230710    | 99% | 1,003.2 | µg/mL | +/- 36.4998 |
| 20 | 2,4-Dimethylphenol                            | 105-67-9  | XW5GK       | 99% | 1,003.8 | µg/mL | +/- 36.5200 |
| 21 | Bis(2-chloroethoxy)methane                    | 111-91-1  | 13670200    | 99% | 1,002.1 | µg/mL | +/- 36.4573 |
| 22 | 2,4-Dichlorophenol                            | 120-83-2  | BCBZ6787    | 99% | 1,003.7 | µg/mL | +/- 36.5180 |
| 23 | 1,2,4-Trichlorobenzene                        | 120-82-1  | SHBP5900    | 99% | 1,007.6 | µg/mL | +/- 36.6574 |
| 24 | Naphthalene                                   | 91-20-3   | STBL1057    | 99% | 1,008.3 | µg/mL | +/- 36.6837 |
| 25 | 4-Chloroaniline                               | 106-47-8  | BCCJ3217    | 99% | 1,001.3 | µg/mL | +/- 36.4290 |
| 26 | Hexachlorobutadiene                           | 87-68-3   | RP230823RSR | 98% | 1,008.3 | µg/mL | +/- 36.6829 |
| 27 | 4-Chloro-3-methylphenol                       | 59-50-7   | BCCD4461    | 99% | 1,003.1 | µg/mL | +/- 36.4937 |
| 28 | 2-Methylnaphthalene                           | 91-57-6   | STBK0259    | 96% | 1,001.9 | µg/mL | +/- 36.4505 |
| 29 | 1-Methylnaphthalene                           | 90-12-0   | 5234.00-8   | 98% | 1,000.0 | µg/mL | +/- 36.3838 |
| 30 | Hexachlorocyclopentadiene                     | 77-47-4   | 099063I14L  | 98% | 1,008.5 | µg/mL | +/- 36.6909 |
| 31 | 2,4,6-Trichlorophenol                         | 88-06-2   | STBJ5914    | 99% | 1,004.4 | µg/mL | +/- 36.5442 |
| 32 | 2,4,5-Trichlorophenol                         | 95-95-4   | FHN01       | 98% | 1,001.9 | µg/mL | +/- 36.4512 |
| 33 | 2-Chloronaphthalene                           | 91-58-7   | RPN7O       | 99% | 1,001.1 | µg/mL | +/- 36.4230 |
| 34 | 2-Nitroaniline                                | 88-74-4   | RP230531    | 99% | 1,002.9 | µg/mL | +/- 36.4876 |
| 35 | 1,4-Dinitrobenzene                            | 100-25-4  | RP230816    | 99% | 1,005.7 | µg/mL | +/- 36.5887 |
| 36 | Acenaphthylene                                | 208-96-8  | p06V        | 98% | 1,009.5 | µg/mL | +/- 36.7265 |
| 37 | 1,3-Dinitrobenzene                            | 99-65-0   | 1-DXX-24-1  | 99% | 1,004.4 | µg/mL | +/- 36.5422 |
| 38 | Dimethylphthalate                             | 131-11-3  | 358221L17K  | 99% | 1,005.9 | µg/mL | +/- 36.5968 |
| 39 | 2,6-Dinitrotoluene                            | 606-20-2  | BCCG1833    | 99% | 1,003.2 | µg/mL | +/- 36.4998 |
| 40 | 1,2-Dinitrobenzene                            | 528-29-0  | RP230428    | 99% | 1,002.2 | µg/mL | +/- 36.4634 |
| 41 | Acenaphthene                                  | 83-32-9   | MKCR7169    | 99% | 1,009.3 | µg/mL | +/- 36.7221 |
| 42 | 3-Nitroaniline                                | 99-09-2   | RP230822RSR | 99% | 1,003.9 | µg/mL | +/- 36.5240 |
| 43 | 2,4-Dinitrophenol                             | 51-28-5   | DR230417RSR | 99% | 1,002.0 | µg/mL | +/- 36.4553 |
| 44 | Dibenzofuran                                  | 132-64-9  | MKCD9952    | 99% | 1,006.7 | µg/mL | +/- 36.6251 |
| 45 | 2,4-Dinitrotoluene                            | 121-14-2  | MKAA0690V   | 99% | 1,003.8 | µg/mL | +/- 36.5220 |
| 46 | 4-Nitrophenol                                 | 100-02-7  | RP230627    | 99% | 1,002.3 | µg/mL | +/- 36.4674 |
| 47 | 2,3,4,6-Tetrachlorophenol                     | 58-90-2   | PR-30126    | 99% | 1,008.7 | µg/mL | +/- 36.6979 |
| 48 | 2,3,5,6-Tetrachlorophenol                     | 935-95-5  | RP230919    | 99% | 1,006.3 | µg/mL | +/- 36.6130 |
| 49 | Fluorene                                      | 86-73-7   | 10241100    | 99% | 1,008.3 | µg/mL | +/- 36.6857 |
| 50 | 4-Chlorophenyl phenyl ether                   | 7005-72-3 | MKCT7248    | 99% | 1,003.8 | µg/mL | +/- 36.5220 |
| 51 | Diethylphthalate                              | 84-66-2   | MKCD2547    | 99% | 1,008.6 | µg/mL | +/- 36.6958 |
| 52 | 4-Nitroaniline                                | 100-01-6  | RP230111    | 99% | 1,001.1 | µg/mL | +/- 36.4230 |
| 53 | 4,6-Dinitro-2-methylphenol (Dinitro-o-cresol) | 534-52-1  | 230718JLM   | 99% | 1,002.0 | µg/mL | +/- 36.4553 |



|    |                            |          |               |     |         |       |             |
|----|----------------------------|----------|---------------|-----|---------|-------|-------------|
| 54 | Diphenylamine              | 122-39-4 | MKCH1042      | 99% | 1,002.3 | µg/mL | +/- 36.4674 |
| 55 | Azobenzene                 | 103-33-3 | BCKK0887      | 99% | 1,005.8 | µg/mL | +/- 36.5928 |
| 56 | 4-Bromophenyl phenyl ether | 101-55-3 | STBH6361      | 99% | 1,003.0 | µg/mL | +/- 36.4917 |
| 57 | Hexachlorobenzene          | 118-74-1 | 14821700      | 99% | 1,007.5 | µg/mL | +/- 36.6554 |
| 58 | Pentachlorophenol          | 87-86-5  | RP230530RSR   | 99% | 1,008.8 | µg/mL | +/- 36.7019 |
| 59 | Phenanthrene               | 85-01-8  | MKCQ8876      | 99% | 1,008.4 | µg/mL | +/- 36.6877 |
| 60 | Anthracene                 | 120-12-7 | MKCR0570      | 99% | 1,009.0 | µg/mL | +/- 36.7100 |
| 61 | Carbazole                  | 86-74-8  | 14351100      | 99% | 1,000.9 | µg/mL | +/- 36.4149 |
| 62 | Di-n-butylphthalate        | 84-74-2  | MKCN4337      | 99% | 1,007.6 | µg/mL | +/- 36.6595 |
| 63 | Fluoranthene               | 206-44-0 | MKCQ4728      | 99% | 1,009.6 | µg/mL | +/- 36.7302 |
| 64 | Pyrene                     | 129-00-0 | BCCG8479      | 98% | 1,007.2 | µg/mL | +/- 36.6453 |
| 65 | Benzyl butyl phthalate     | 85-68-7  | X12I018       | 99% | 1,002.1 | µg/mL | +/- 36.4573 |
| 66 | Bis(2-ethylhexyl)adipate   | 103-23-1 | MKCM1988      | 99% | 1,005.2 | µg/mL | +/- 36.5705 |
| 67 | Benz(a)anthracene          | 56-55-3  | I220012022BAA | 99% | 1,002.2 | µg/mL | +/- 36.4614 |
| 68 | Chrysene                   | 218-01-9 | RP230601      | 99% | 1,008.3 | µg/mL | +/- 36.6837 |
| 69 | Bis(2-ethylhexyl)phthalate | 117-81-7 | MKCQ3468      | 99% | 1,001.8 | µg/mL | +/- 36.4472 |
| 70 | Di-n-octyl phthalate       | 117-84-0 | 14382700      | 99% | 1,006.0 | µg/mL | +/- 36.6008 |
| 71 | Benzo(b)fluoranthene       | 205-99-2 | 012013B       | 99% | 1,002.8 | µg/mL | +/- 36.4836 |
| 72 | Benzo(k)fluoranthene       | 207-08-9 | 012022K       | 99% | 1,003.0 | µg/mL | +/- 36.4917 |
| 73 | Benzo(a)pyrene             | 50-32-8  | P54915-0703   | 99% | 1,002.3 | µg/mL | +/- 36.4674 |
| 74 | Indeno(1,2,3-cd)pyrene     | 193-39-5 | 12-JKL-118-9  | 97% | 1,009.4 | µg/mL | +/- 36.7243 |
| 75 | Dibenz(a,h)anthracene      | 53-70-3  | 2-ASA-59-1    | 99% | 1,007.6 | µg/mL | +/- 36.6595 |
| 76 | Benzo(g,h,i)perylene       | 191-24-2 | RP231003RSR   | 99% | 1,002.9 | µg/mL | +/- 36.4876 |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%





110 Benner Circle  
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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

chromatographic plus



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31850 **Lot No.:** A0203726

**Description :** 8270 MegaMix®  
8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** April 30, 2025 **Storage:** 0°C or colder

**Handling:** Sonication required. Mix is photosensitive. **Ship:** Ambient

512117 } RC/  
↓ 03/18/24  
512146 }

### 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%    | 1,001.6 µg/mL               | +/- 36.4412                            |
| 2             | N-Nitrosodimethylamine       | 62-75-9  | 230209JLM   | 99%    | 1,005.9 µg/mL               | +/- 36.5968                            |
| 3             | Phenol                       | 108-95-2 | MKCK1120    | 99%    | 1,003.3 µg/mL               | +/- 36.5038                            |
| 4             | Aniline                      | 62-53-3  | X22F726     | 99%    | 1,005.8 µg/mL               | +/- 36.5928                            |
| 5             | Bis(2-chloroethyl)ether      | 111-44-4 | SHBL6942    | 99%    | 1,008.1 µg/mL               | +/- 36.6776                            |
| 6             | 2-Chlorophenol               | 95-57-8  | STBJ3909    | 99%    | 1,001.8 µg/mL               | +/- 36.4492                            |
| 7             | 1,3-Dichlorobenzene          | 541-73-1 | BCCD5315    | 99%    | 1,002.3 µg/mL               | +/- 36.4654                            |
| 8             | 1,4-Dichlorobenzene          | 106-46-7 | MKBS7929V   | 99%    | 1,003.7 µg/mL               | +/- 36.5159                            |
| 9             | Benzyl alcohol               | 100-51-6 | SHBK5469    | 99%    | 1,008.7 µg/mL               | +/- 36.6979                            |
| 10            | 1,2-Dichlorobenzene          | 95-50-1  | SHBN3835    | 99%    | 1,000.3 µg/mL               | +/- 36.3926                            |
| 11            | 2-Methylphenol (o-cresol)    | 95-48-7  | SHBN7598    | 99%    | 1,003.5 µg/mL               | +/- 36.5099                            |
| 12            | 2,2'-oxybis(1-chloropropane) | 108-60-1 | 29-MAR-45-5 | 99%    | 1,007.3 µg/mL               | +/- 36.6493                            |
| 13            | 3-Methylphenol (m-cresol)    | 108-39-4 | STBJ0710    | 99%    | 504.3 µg/mL                 | +/- 18.3500                            |
| 14            | 4-Methylphenol (p-cresol)    | 106-44-5 | SHBN3411    | 99%    | 503.6 µg/mL                 | +/- 18.3237                            |
| 15            | N-Nitroso-di-n-propylamine   | 621-64-7 | N63MG       | 99%    | 1,008.3 µg/mL               | +/- 36.6857                            |
| 16            | Hexachloroethane             | 67-72-1  | QTORH       | 99%    | 1,007.5 µg/mL               | +/- 36.6554                            |
| 17            | Nitrobenzene                 | 98-95-3  | 10224044    | 99%    | 1,008.6 µg/mL               | +/- 36.6938                            |

|    |                                               |           |             |     |         |       |             |
|----|-----------------------------------------------|-----------|-------------|-----|---------|-------|-------------|
| 18 | Isophorone                                    | 78-59-1   | MKCC9506    | 99% | 1,005.9 | µg/mL | +/- 36.5988 |
| 19 | 2-Nitrophenol                                 | 88-75-5   | RP230710    | 99% | 1,003.2 | µg/mL | +/- 36.4998 |
| 20 | 2,4-Dimethylphenol                            | 105-67-9  | XW5GK       | 99% | 1,003.8 | µg/mL | +/- 36.5200 |
| 21 | Bis(2-chloroethoxy)methane                    | 111-91-1  | 13670200    | 99% | 1,002.1 | µg/mL | +/- 36.4573 |
| 22 | 2,4-Dichlorophenol                            | 120-83-2  | BCBZ6787    | 99% | 1,003.7 | µg/mL | +/- 36.5180 |
| 23 | 1,2,4-Trichlorobenzene                        | 120-82-1  | SHBP5900    | 99% | 1,007.6 | µg/mL | +/- 36.6574 |
| 24 | Naphthalene                                   | 91-20-3   | STBL1057    | 99% | 1,008.3 | µg/mL | +/- 36.6837 |
| 25 | 4-Chloroaniline                               | 106-47-8  | BCCJ3217    | 99% | 1,001.3 | µg/mL | +/- 36.4290 |
| 26 | Hexachlorobutadiene                           | 87-68-3   | RP230823RSR | 98% | 1,008.3 | µg/mL | +/- 36.6829 |
| 27 | 4-Chloro-3-methylphenol                       | 59-50-7   | BCCD4461    | 99% | 1,003.1 | µg/mL | +/- 36.4937 |
| 28 | 2-Methylnaphthalene                           | 91-57-6   | STBK0259    | 96% | 1,001.9 | µg/mL | +/- 36.4505 |
| 29 | 1-Methylnaphthalene                           | 90-12-0   | 5234.00-8   | 98% | 1,000.0 | µg/mL | +/- 36.3838 |
| 30 | Hexachlorocyclopentadiene                     | 77-47-4   | 099063I14L  | 98% | 1,008.5 | µg/mL | +/- 36.6909 |
| 31 | 2,4,6-Trichlorophenol                         | 88-06-2   | STBJ5914    | 99% | 1,004.4 | µg/mL | +/- 36.5442 |
| 32 | 2,4,5-Trichlorophenol                         | 95-95-4   | FHN01       | 98% | 1,001.9 | µg/mL | +/- 36.4512 |
| 33 | 2-Chloronaphthalene                           | 91-58-7   | RPN7O       | 99% | 1,001.1 | µg/mL | +/- 36.4230 |
| 34 | 2-Nitroaniline                                | 88-74-4   | RP230531    | 99% | 1,002.9 | µg/mL | +/- 36.4876 |
| 35 | 1,4-Dinitrobenzene                            | 100-25-4  | RP230816    | 99% | 1,005.7 | µg/mL | +/- 36.5887 |
| 36 | Acenaphthylene                                | 208-96-8  | p06V        | 98% | 1,009.5 | µg/mL | +/- 36.7265 |
| 37 | 1,3-Dinitrobenzene                            | 99-65-0   | 1-DXX-24-1  | 99% | 1,004.4 | µg/mL | +/- 36.5422 |
| 38 | Dimethylphthalate                             | 131-11-3  | 358221L17K  | 99% | 1,005.9 | µg/mL | +/- 36.5968 |
| 39 | 2,6-Dinitrotoluene                            | 606-20-2  | BCCG1833    | 99% | 1,003.2 | µg/mL | +/- 36.4998 |
| 40 | 1,2-Dinitrobenzene                            | 528-29-0  | RP230428    | 99% | 1,002.2 | µg/mL | +/- 36.4634 |
| 41 | Acenaphthene                                  | 83-32-9   | MKCR7169    | 99% | 1,009.3 | µg/mL | +/- 36.7221 |
| 42 | 3-Nitroaniline                                | 99-09-2   | RP230822RSR | 99% | 1,003.9 | µg/mL | +/- 36.5240 |
| 43 | 2,4-Dinitrophenol                             | 51-28-5   | DR230417RSR | 99% | 1,002.0 | µg/mL | +/- 36.4553 |
| 44 | Dibenzofuran                                  | 132-64-9  | MKCD9952    | 99% | 1,006.7 | µg/mL | +/- 36.6251 |
| 45 | 2,4-Dinitrotoluene                            | 121-14-2  | MKAA0690V   | 99% | 1,003.8 | µg/mL | +/- 36.5220 |
| 46 | 4-Nitrophenol                                 | 100-02-7  | RP230627    | 99% | 1,002.3 | µg/mL | +/- 36.4674 |
| 47 | 2,3,4,6-Tetrachlorophenol                     | 58-90-2   | PR-30126    | 99% | 1,008.7 | µg/mL | +/- 36.6979 |
| 48 | 2,3,5,6-Tetrachlorophenol                     | 935-95-5  | RP230919    | 99% | 1,006.3 | µg/mL | +/- 36.6130 |
| 49 | Fluorene                                      | 86-73-7   | 10241100    | 99% | 1,008.3 | µg/mL | +/- 36.6857 |
| 50 | 4-Chlorophenyl phenyl ether                   | 7005-72-3 | MKCT7248    | 99% | 1,003.8 | µg/mL | +/- 36.5220 |
| 51 | Diethylphthalate                              | 84-66-2   | MKCD2547    | 99% | 1,008.6 | µg/mL | +/- 36.6958 |
| 52 | 4-Nitroaniline                                | 100-01-6  | RP230111    | 99% | 1,001.1 | µg/mL | +/- 36.4230 |
| 53 | 4,6-Dinitro-2-methylphenol (Dinitro-o-cresol) | 534-52-1  | 230718JLM   | 99% | 1,002.0 | µg/mL | +/- 36.4553 |

|    |                            |          |               |     |         |       |             |
|----|----------------------------|----------|---------------|-----|---------|-------|-------------|
| 54 | Diphenylamine              | 122-39-4 | MKCH1042      | 99% | 1,002.3 | µg/mL | +/- 36.4674 |
| 55 | Azobenzene                 | 103-33-3 | BCKK0887      | 99% | 1,005.8 | µg/mL | +/- 36.5928 |
| 56 | 4-Bromophenyl phenyl ether | 101-55-3 | STBH6361      | 99% | 1,003.0 | µg/mL | +/- 36.4917 |
| 57 | Hexachlorobenzene          | 118-74-1 | 14821700      | 99% | 1,007.5 | µg/mL | +/- 36.6554 |
| 58 | Pentachlorophenol          | 87-86-5  | RP230530RSR   | 99% | 1,008.8 | µg/mL | +/- 36.7019 |
| 59 | Phenanthrene               | 85-01-8  | MKCQ8876      | 99% | 1,008.4 | µg/mL | +/- 36.6877 |
| 60 | Anthracene                 | 120-12-7 | MKCR0570      | 99% | 1,009.0 | µg/mL | +/- 36.7100 |
| 61 | Carbazole                  | 86-74-8  | 14351100      | 99% | 1,000.9 | µg/mL | +/- 36.4149 |
| 62 | Di-n-butylphthalate        | 84-74-2  | MKCN4337      | 99% | 1,007.6 | µg/mL | +/- 36.6595 |
| 63 | Fluoranthene               | 206-44-0 | MKCQ4728      | 99% | 1,009.6 | µg/mL | +/- 36.7302 |
| 64 | Pyrene                     | 129-00-0 | BCCG8479      | 98% | 1,007.2 | µg/mL | +/- 36.6453 |
| 65 | Benzyl butyl phthalate     | 85-68-7  | X12I018       | 99% | 1,002.1 | µg/mL | +/- 36.4573 |
| 66 | Bis(2-ethylhexyl)adipate   | 103-23-1 | MKCM1988      | 99% | 1,005.2 | µg/mL | +/- 36.5705 |
| 67 | Benz(a)anthracene          | 56-55-3  | I220012022BAA | 99% | 1,002.2 | µg/mL | +/- 36.4614 |
| 68 | Chrysene                   | 218-01-9 | RP230601      | 99% | 1,008.3 | µg/mL | +/- 36.6837 |
| 69 | Bis(2-ethylhexyl)phthalate | 117-81-7 | MKCQ3468      | 99% | 1,001.8 | µg/mL | +/- 36.4472 |
| 70 | Di-n-octyl phthalate       | 117-84-0 | 14382700      | 99% | 1,006.0 | µg/mL | +/- 36.6008 |
| 71 | Benzo(b)fluoranthene       | 205-99-2 | 012013B       | 99% | 1,002.8 | µg/mL | +/- 36.4836 |
| 72 | Benzo(k)fluoranthene       | 207-08-9 | 012022K       | 99% | 1,003.0 | µg/mL | +/- 36.4917 |
| 73 | Benzo(a)pyrene             | 50-32-8  | P54915-0703   | 99% | 1,002.3 | µg/mL | +/- 36.4674 |
| 74 | Indeno(1,2,3-cd)pyrene     | 193-39-5 | 12-JKL-118-9  | 97% | 1,009.4 | µg/mL | +/- 36.7243 |
| 75 | Dibenz(a,h)anthracene      | 53-70-3  | 2-ASA-59-1    | 99% | 1,007.6 | µg/mL | +/- 36.6595 |
| 76 | Benzo(g,h,i)perylene       | 191-24-2 | RP231003RSR   | 99% | 1,002.9 | µg/mL | +/- 36.4876 |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%





110 Benner Circle  
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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

chromatographic plus



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31087 **Lot No.:** A0206206  
**Description :** Acid Surrogate Mix (4/89 SOW)  
Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul  
**Container Size :** 5 mL **Pkg Amt:** > 5 mL  
**Expiration Date :** January 31, 2032 **Storage:** 10°C or colder  
**Ship:** Ambient

512187 } RC/  
↓ } 03/18/24  
512206 }

### CERTIFIED VALUES

| Elution Order | Compound             | CAS #      | Lot #       | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|----------------------|------------|-------------|--------|-----------------------------|----------------------------------------|
| 1             | 2-Fluorophenol       | 367-12-4   | STBK1705    | 99%    | 10,005.3 µg/mL              | +/- 302.5390                           |
| 2             | Phenol-d6            | 13127-88-3 | PR-33287A   | 99%    | 10,005.5 µg/mL              | +/- 302.5475                           |
| 3             | 2,4,6-Tribromophenol | 118-79-6   | RP230831RSR | 99%    | 10,006.6 µg/mL              | +/- 302.5783                           |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methanol  
**CAS #** 67-56-1  
**Purity** 99%

# Quality Confirmation Test

**Column:**

30m x 0.25mm x 0.25µm  
Rtx-5 (cat.#10223)

**Carrier Gas:**

hydrogen-constant pressure 10 psi.

**Temp. Program:**

40°C (hold 2 min.) to 330°C  
@ 10°C/min. (hold 10 min.)

**Inj. Temp:**

250°C

**Det. Temp:**

330°C

**Det. Type:**

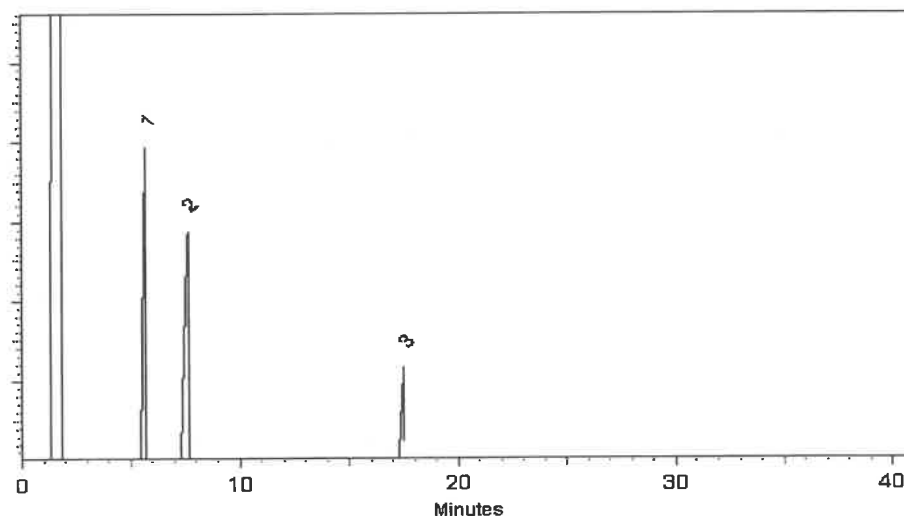
FID

**Split Vent:**

2 ml/min.

**Inj. Vol**

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

*Penelope S. Riglin*

Penelope Riglin - Operations Tech I

Date Mixed: 04-Jan-2024

Balance Serial # 1128360905

*Christie Mills*

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Jan-2024

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397





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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

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### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31086 **Lot No.:** A0206381  
**Description :** B/N Surrogate Mix (4/89 SOW)  
Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul  
**Container Size :** 5 mL **Pkg Amt:** > 5 mL  
**Expiration Date :** December 31, 2029 **Storage:** 10°C or colder  
**Handling:** Sonicate prior to use. **Ship:** Ambient

S12207 } RC/  
↓  
S12221 } 03/18/24

### CERTIFIED VALUES

| Elution Order | Compound         | CAS #     | Lot #    | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|------------------|-----------|----------|--------|-----------------------------|----------------------------------------|
| 1             | Nitrobenzene-d5  | 4165-60-0 | I-25158  | 99%    | 5,029.3 µg/mL               | +/- 226.5204                           |
| 2             | 2-Fluorobiphenyl | 321-60-8  | 00021384 | 99%    | 5,030.9 µg/mL               | +/- 226.5936                           |
| 3             | p-Terphenyl-d14  | 1718-51-0 | PR-32599 | 99%    | 5,026.4 µg/mL               | +/- 226.3909                           |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

### Tech Tips:

Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

# Quality Confirmation Test

**Column:**

30m x 0.25mm x 0.25µm  
Rtx-S (cat.#10223)

**Carrier Gas:**

hydrogen-constant pressure 10 psi.

**Temp. Program:**

40°C (hold 2 min.) to 330°C  
@ 10°C/min. (hold 10 min.)

**Inj. Temp:**

250°C

**Det. Temp:**

330°C

**Det. Type:**

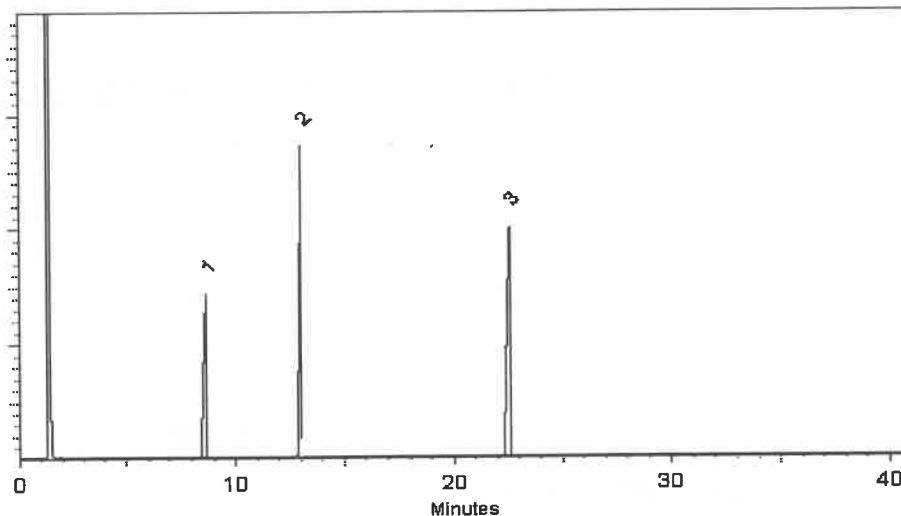
FID

**Split Vent:**

2 ml/min.

**Inj. Vol**

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024 Balance Serial # 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397



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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

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### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31086 **Lot No.:** A0206381  
**Description :** B/N Surrogate Mix (4/89 SOW)  
Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul  
**Container Size :** 5 mL **Pkg Amt:** > 5 mL  
**Expiration Date :** December 31, 2029 **Storage:** 10°C or colder  
**Handling:** Sonicate prior to use. **Ship:** Ambient

S12207 } RC/  
↓  
S12221 } 03/18/24

### CERTIFIED VALUES

| Elution Order | Compound         | CAS #     | Lot #    | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|------------------|-----------|----------|--------|-----------------------------|----------------------------------------|
| 1             | Nitrobenzene-d5  | 4165-60-0 | I-25158  | 99%    | 5,029.3 µg/mL               | +/- 226.5204                           |
| 2             | 2-Fluorobiphenyl | 321-60-8  | 00021384 | 99%    | 5,030.9 µg/mL               | +/- 226.5936                           |
| 3             | p-Terphenyl-d14  | 1718-51-0 | PR-32599 | 99%    | 5,026.4 µg/mL               | +/- 226.3909                           |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

### Tech Tips:

Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

# Quality Confirmation Test

**Column:**

30m x 0.25mm x 0.25µm  
Rtx-S (cat.#10223)

**Carrier Gas:**

hydrogen-constant pressure 10 psi.

**Temp. Program:**

40°C (hold 2 min.) to 330°C  
@ 10°C/min. (hold 10 min.)

**Inj. Temp:**

250°C

**Det. Temp:**

330°C

**Det. Type:**

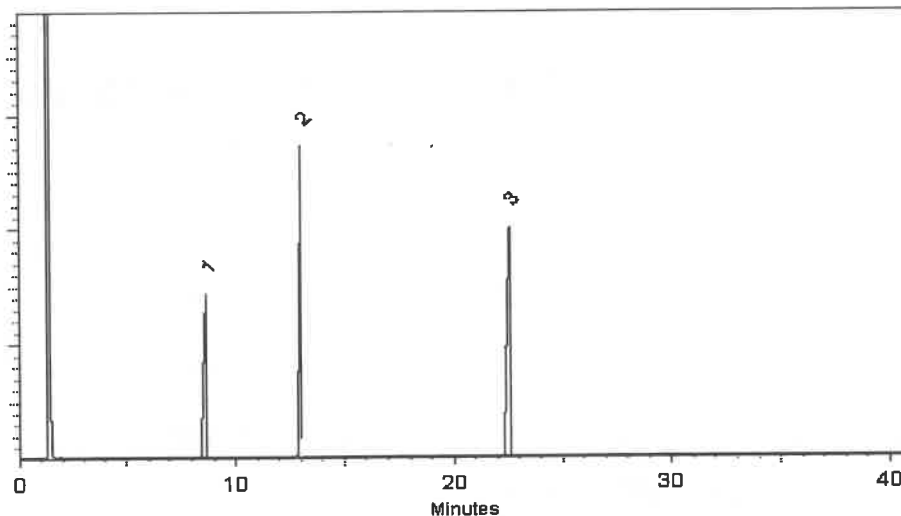
FID

**Split Vent:**

2 ml/min.

**Inj. Vol**

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024 Balance Serial # 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397



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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:**

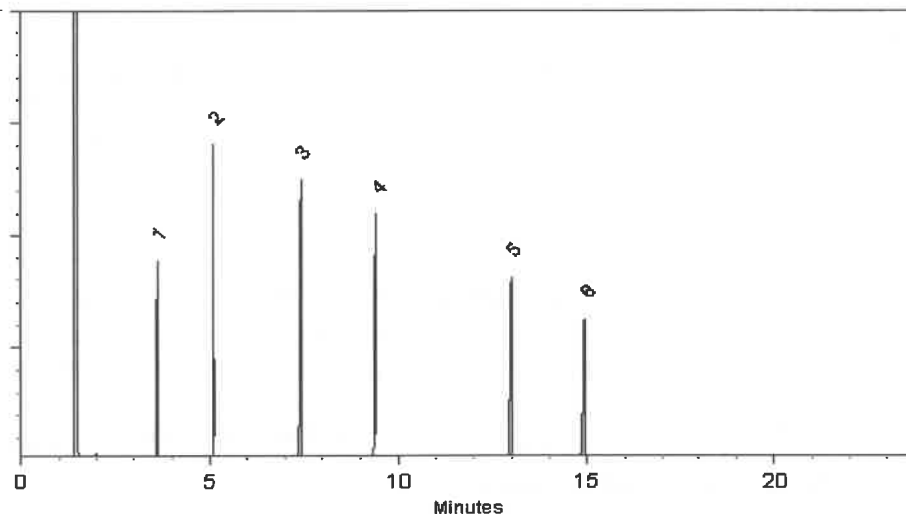
FID

**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*  
Malina Homan - Operations Technician I

Date Mixed: 12-Jan-2024

Balance Serial # 1128360905

*Jennifer Pollino*  
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



110 Benner Circle  
Bellefonte, PA 16823-8812  
Tel: 1-814-353-1300  
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

chromatographic plus



## FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31206 **Lot No.:** 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:**

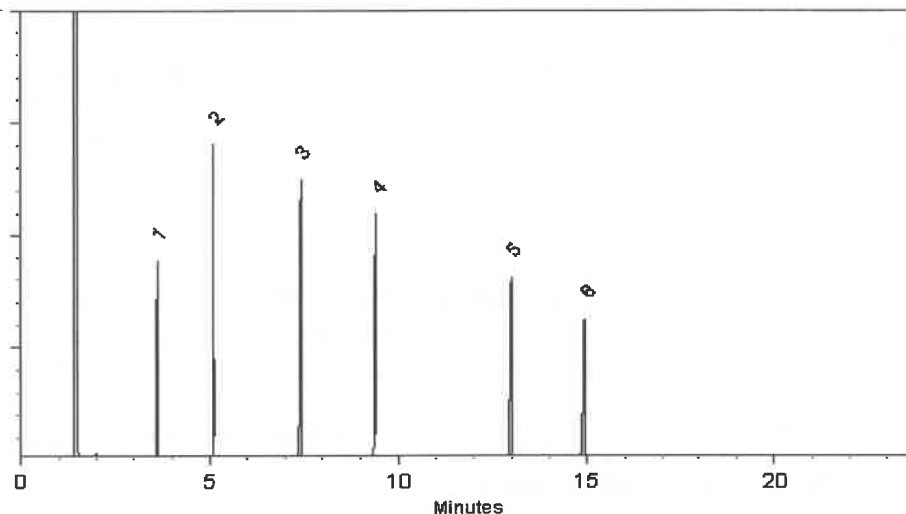
FID

**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*  
Malina Homan - Operations Technician I

Date Mixed: 12-Jan-2024

Balance Serial # 1128360905

*Jennifer Pollino*  
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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www.restek.com

## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

gravimetric



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 555223 **Lot No.:** A0214021

**Description :** Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** July 31, 2026 **Storage:** 10°C or colder

**Handling:** This product is photosensitive. **Ship:** Ambient

### CERTIFIED VALUES

| Component # | Compound               | CAS #     | Lot #      | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|-------------|------------------------|-----------|------------|--------|-----------------------------|----------------------------------------|
| 1           | 3,3'-Dichlorobenzidine | 91-94-1   | S240326RSR | 99%    | 1,004.0 µg/mL               | +/- 23.0487                            |
| 2           | Atrazine               | 1912-24-9 | 5FYWL      | 99%    | 1,005.0 µg/mL               | +/- 23.0717                            |
| 3           | Benzidine              | 92-87-5   | S240430RSR | 99%    | 1,006.0 µg/mL               | +/- 23.0947                            |
| 4           | epsilon-Caprolactam    | 105-60-2  | Y16H012    | 99%    | 1,000.0 µg/mL               | +/- 22.9569                            |

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

S12449 } RC/  
↓ 7/24/24  
S12508 }

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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Fax: 1-814-353-1309

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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

gravimetric



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 555223 **Lot No.:** A0214021

**Description :** Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** July 31, 2026 **Storage:** 10°C or colder

**Handling:** This product is photosensitive. **Ship:** Ambient

### CERTIFIED VALUES

| Component # | Compound               | CAS #     | Lot #      | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|-------------|------------------------|-----------|------------|--------|-----------------------------|----------------------------------------|
| 1           | 3,3'-Dichlorobenzidine | 91-94-1   | S240326RSR | 99%    | 1,004.0 µg/mL               | +/- 23.0487                            |
| 2           | Atrazine               | 1912-24-9 | 5FYWL      | 99%    | 1,005.0 µg/mL               | +/- 23.0717                            |
| 3           | Benzidine              | 92-87-5   | S240430RSR | 99%    | 1,006.0 µg/mL               | +/- 23.0947                            |
| 4           | epsilon-Caprolactam    | 105-60-2  | Y16H012    | 99%    | 1,000.0 µg/mL               | +/- 22.9569                            |

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

S12449 } RC/  
↓  
S12508 } 7/24/24

Rebecca Gingerich - Operations Tech II

**Date Mixed:** 18-Jul-2024

**Balance:** 1128353505

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

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$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

$k$  is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

gravimetric



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 555224 **Lot No.:** A0214017

**Description :** Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** July 31, 2026 **Storage:** 10°C or colder

**Ship:** Ambient

### CERTIFIED VALUES

| Component # | Compound                   | CAS #    | Lot #        | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|-------------|----------------------------|----------|--------------|--------|-----------------------------|----------------------------------------|
| 1           | 1,2,4,5-Tetrachlorobenzene | 95-94-3  | MKCT9480     | 99%    | 1,005.0 µg/mL               | +/- 29.541899                          |
| 2           | Acetophenone               | 98-86-2  | STBH8205     | 99%    | 1,005.0 µg/mL               | +/- 29.541899                          |
| 3           | Benzaldehyde               | 100-52-7 | RD231129RSRA | 99%    | 1,008.0 µg/mL               | +/- 29.630084                          |
| 4           | Benzoic acid               | 65-85-0  | MKCR2694     | 99%    | 1,010.0 µg/mL               | +/- 29.688874                          |
| 5           | Biphenyl                   | 92-52-4  | MKCS5928     | 99%    | 1,008.0 µg/mL               | +/- 29.630084                          |

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

S12509 } RC/  
↓  
S12568 } 7/24/24

  
Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024

Balance: 1128360905

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
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$k$  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.



# SHIPPING DOCUMENTS

|                                                                                                                                      |  |                                                                                                                                                                                                                                                                                                                                                                                                |  |                                                                                                                                                                                    |  |
|--------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>CHEMTECH</b><br>CHAIN OF CUSTODY RECORD                                                                                           |  | 284 Sheffield Street, Mountainside, NJ 07092<br>(908) 789-8900 Fax: (908) 78-8922<br>www.chemtech.net                                                                                                                                                                                                                                                                                          |  | Chemtech Project Number: <b>P5289</b>                                                                                                                                              |  |
|                                                                                                                                      |  |                                                                                                                                                                                                                                                                                                                                                                                                |  | COC Number:                                                                                                                                                                        |  |
| CLIENT INFORMATION                                                                                                                   |  | PROJECT INFORMATION                                                                                                                                                                                                                                                                                                                                                                            |  | BILLING INFORMATION                                                                                                                                                                |  |
| COMPANY: Tetra Tech                                                                                                                  |  | PROJECT NAME: NWIRP Bethpage                                                                                                                                                                                                                                                                                                                                                                   |  | BILL TO: PO#                                                                                                                                                                       |  |
| ADDRESS: 4433 Corporation Ln, Suite 300                                                                                              |  | PROJECT #: 112G08005-WE13 LOCATION: RW5B                                                                                                                                                                                                                                                                                                                                                       |  | ADDRESS:                                                                                                                                                                           |  |
| CITY: Virginia Beach STATE: VA ZIP: 23462                                                                                            |  | PROJECT MANAGER: Ernie Wu                                                                                                                                                                                                                                                                                                                                                                      |  | CITY: STATE: ZIP:                                                                                                                                                                  |  |
| ATTENTION: Ernie Wu                                                                                                                  |  | E-MAIL: ernie.wu@tetratech.com                                                                                                                                                                                                                                                                                                                                                                 |  | ATTENTION: PHONE:                                                                                                                                                                  |  |
| PHONE: 757-466-4901 FAX: 757-461-4148                                                                                                |  | PHONE: 757-466-4901 FAX: 757-461-4148                                                                                                                                                                                                                                                                                                                                                          |  |                                                                                                                                                                                    |  |
| DATA TURNAROUND INFORMATION                                                                                                          |  | DATA DELIVERABLE INFORMATION                                                                                                                                                                                                                                                                                                                                                                   |  | ANALYSIS                                                                                                                                                                           |  |
| FAX: 10 DAYS*<br>HARD COPY: 10 DAYS*<br>EDD 10 DAYS*<br>* TO BE APPROVED BY CHEMTECH<br>STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS |  | <input type="checkbox"/> RESEULTS ONLY <input type="checkbox"/> USEPA CLP<br><input type="checkbox"/> RESULTS + QC <input type="checkbox"/> New York State ASP "B"<br><input type="checkbox"/> New Jersey REDUCED <input type="checkbox"/> New York State ASP "A"<br><input type="checkbox"/> New Jersey CLP <input type="checkbox"/> Other _____<br><input type="checkbox"/> EDD Format _____ |  | 1,4-Dioxane SW846 8270<br>SIM                                                                                                                                                      |  |
|                                                                                                                                      |  |                                                                                                                                                                                                                                                                                                                                                                                                |  | 1 2 3 4 5 6 7 8 9                                                                                                                                                                  |  |
|                                                                                                                                      |  |                                                                                                                                                                                                                                                                                                                                                                                                |  | PRESERVATIVES                                                                                                                                                                      |  |
|                                                                                                                                      |  |                                                                                                                                                                                                                                                                                                                                                                                                |  | COMMENTS                                                                                                                                                                           |  |
| CHEMTECH SAMPLE ID                                                                                                                   |  | PROJECT SAMPLE IDENTIFICATION                                                                                                                                                                                                                                                                                                                                                                  |  | SAMPLE MATRIX                                                                                                                                                                      |  |
|                                                                                                                                      |  |                                                                                                                                                                                                                                                                                                                                                                                                |  | SAMPLE TYPE                                                                                                                                                                        |  |
|                                                                                                                                      |  |                                                                                                                                                                                                                                                                                                                                                                                                |  | SAMPLE COLLECTION                                                                                                                                                                  |  |
|                                                                                                                                      |  |                                                                                                                                                                                                                                                                                                                                                                                                |  | DATE TIME                                                                                                                                                                          |  |
|                                                                                                                                      |  |                                                                                                                                                                                                                                                                                                                                                                                                |  | # of Bottles                                                                                                                                                                       |  |
|                                                                                                                                      |  |                                                                                                                                                                                                                                                                                                                                                                                                |  | 1 2 3 4 5 6 7 8 9                                                                                                                                                                  |  |
|                                                                                                                                      |  |                                                                                                                                                                                                                                                                                                                                                                                                |  | B                                                                                                                                                                                  |  |
|                                                                                                                                      |  |                                                                                                                                                                                                                                                                                                                                                                                                |  | 1 2 3 4 5 6 7 8 9                                                                                                                                                                  |  |
|                                                                                                                                      |  |                                                                                                                                                                                                                                                                                                                                                                                                |  | ← Specify Preservatives<br>A-HCl B-HNO3<br>C-H2SO4 D-NaOH<br>E-ICE F-Other                                                                                                         |  |
| 1. RW5-SP100-20241212                                                                                                                |  | GW                                                                                                                                                                                                                                                                                                                                                                                             |  | x                                                                                                                                                                                  |  |
| 2. RW5-SP201-20241212                                                                                                                |  | GW                                                                                                                                                                                                                                                                                                                                                                                             |  | x                                                                                                                                                                                  |  |
| 3. RW5-SP303-20241212                                                                                                                |  | GW                                                                                                                                                                                                                                                                                                                                                                                             |  | x                                                                                                                                                                                  |  |
| 4.                                                                                                                                   |  |                                                                                                                                                                                                                                                                                                                                                                                                |  |                                                                                                                                                                                    |  |
| 5.                                                                                                                                   |  |                                                                                                                                                                                                                                                                                                                                                                                                |  |                                                                                                                                                                                    |  |
| 6.                                                                                                                                   |  |                                                                                                                                                                                                                                                                                                                                                                                                |  |                                                                                                                                                                                    |  |
| 7.                                                                                                                                   |  |                                                                                                                                                                                                                                                                                                                                                                                                |  |                                                                                                                                                                                    |  |
| 8.                                                                                                                                   |  |                                                                                                                                                                                                                                                                                                                                                                                                |  |                                                                                                                                                                                    |  |
| 9.                                                                                                                                   |  |                                                                                                                                                                                                                                                                                                                                                                                                |  |                                                                                                                                                                                    |  |
| 10.                                                                                                                                  |  |                                                                                                                                                                                                                                                                                                                                                                                                |  |                                                                                                                                                                                    |  |
| SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE PROSESSION INCLUDING COURIER DELIVERY                               |  |                                                                                                                                                                                                                                                                                                                                                                                                |  |                                                                                                                                                                                    |  |
| RELINQUISHED BY SAMPLER                                                                                                              |  | DATE/TIME                                                                                                                                                                                                                                                                                                                                                                                      |  | RECEIVED BY                                                                                                                                                                        |  |
| 1. [Signature]                                                                                                                       |  | 12/15/24 1300                                                                                                                                                                                                                                                                                                                                                                                  |  | 1300                                                                                                                                                                               |  |
| RELINQUISHED BY                                                                                                                      |  | DATE/TIME                                                                                                                                                                                                                                                                                                                                                                                      |  | RECEIVED BY                                                                                                                                                                        |  |
| 2. [Signature]                                                                                                                       |  | 12-13-24                                                                                                                                                                                                                                                                                                                                                                                       |  | 12-13-24                                                                                                                                                                           |  |
| RELINQUISHED BY                                                                                                                      |  | DATE/TIME                                                                                                                                                                                                                                                                                                                                                                                      |  | RECEIVED FOR LAB BY                                                                                                                                                                |  |
| 3. [Signature]                                                                                                                       |  | 12-13-24                                                                                                                                                                                                                                                                                                                                                                                       |  | 1705                                                                                                                                                                               |  |
|                                                                                                                                      |  |                                                                                                                                                                                                                                                                                                                                                                                                |  | Page _____ of _____                                                                                                                                                                |  |
|                                                                                                                                      |  |                                                                                                                                                                                                                                                                                                                                                                                                |  | SHIPPED VIA: CLIENT: <input type="checkbox"/> Hand Delivered <input type="checkbox"/> Overnight<br>CHEMTECH: <input type="checkbox"/> Picked Up <input type="checkbox"/> Overnight |  |
|                                                                                                                                      |  |                                                                                                                                                                                                                                                                                                                                                                                                |  | Shipment Complete<br><input type="checkbox"/> YES <input type="checkbox"/> NO                                                                                                      |  |
| WHITE - CHEMTECH COPYFOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY                                                 |  |                                                                                                                                                                                                                                                                                                                                                                                                |  |                                                                                                                                                                                    |  |





284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

### 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       |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112724\  
 Data File : BN035350.D  
 Acq On : 27 Nov 2024 15:34  
 Operator : RC/JU  
 Sample : SSTDICC0.1  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC0.1

Quant Time: Nov 27 22:52:09 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Nov 27 22:48:24 2024  
 Response via : Initial Calibration

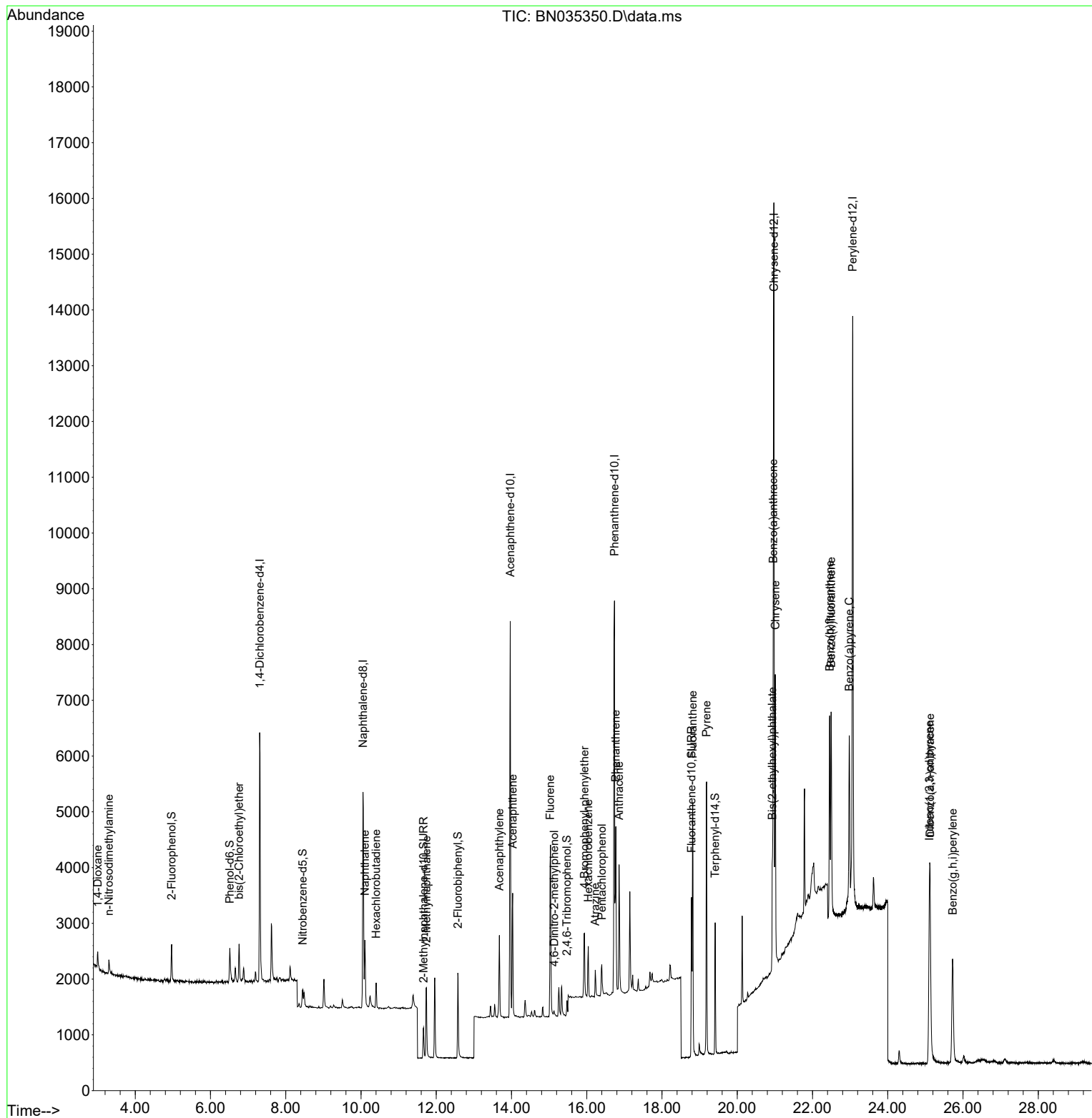
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.308  | 152  | 2237     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.052 | 136  | 5753     | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 13.967 | 164  | 4077     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 16.736 | 188  | 10855    | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 20.974 | 240  | 11269    | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.067 | 264  | 13004    | 0.400 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 4.968  | 112  | 573      | 0.101 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.513  | 99   | 686      | 0.096 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.450  | 82   | 492      | 0.098 | ng    | 0.01     |
| 11) 2-Methylnaphthalene-d10   | 11.661 | 152  | 850      | 0.083 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.475 | 330  | 278      | 0.095 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.574 | 172  | 1518     | 0.092 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 18.785 | 212  | 3265     | 0.098 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.412 | 244  | 2344     | 0.099 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
| 2) 1,4-Dioxane                | 3.003  | 88   | 227      | 0.112 | ng    | # 87     |
| 3) n-Nitrosodimethylamine     | 3.299  | 42   | 187      | 0.099 | ng    | # 90     |
| 6) bis(2-Chloroethyl)ether    | 6.759  | 93   | 579      | 0.108 | ng    | 98       |
| 9) Naphthalene                | 10.105 | 128  | 1527     | 0.102 | ng    | # 91     |
| 10) Hexachlorobutadiene       | 10.404 | 225  | 352      | 0.080 | ng    | # 97     |
| 12) 2-Methylnaphthalene       | 11.737 | 142  | 1042     | 0.094 | ng    | 96       |
| 16) Acenaphthylene            | 13.679 | 152  | 1675     | 0.096 | ng    | 100      |
| 17) Acenaphthene              | 14.031 | 154  | 1143     | 0.100 | ng    | 99       |
| 18) Fluorene                  | 15.026 | 166  | 1620     | 0.096 | ng    | 98       |
| 20) 4,6-Dinitro-2-methylph... | 15.133 | 198  | 103      | 0.046 | ng    | # 29     |
| 21) 4-Bromophenyl-phenylether | 15.941 | 248  | 612      | 0.088 | ng    | # 94     |
| 22) Hexachlorobenzene         | 16.041 | 284  | 720      | 0.100 | ng    | 97       |
| 23) Atrazine                  | 16.227 | 200  | 421      | 0.068 | ng    | # 86     |
| 24) Pentachlorophenol         | 16.401 | 266  | 381      | 0.114 | ng    | 90       |
| 25) Phenanthrene              | 16.773 | 178  | 2963     | 0.104 | ng    | 99       |
| 26) Anthracene                | 16.860 | 178  | 2617     | 0.100 | ng    | 98       |
| 28) Fluoranthene              | 18.817 | 202  | 4173     | 0.106 | ng    | 99       |
| 30) Pyrene                    | 19.184 | 202  | 4461     | 0.119 | ng    | 100      |
| 32) Benzo(a)anthracene        | 20.956 | 228  | 4031     | 0.103 | ng    | 99       |
| 33) Chrysene                  | 21.010 | 228  | 4123     | 0.106 | ng    | 97       |
| 34) Bis(2-ethylhexyl)phtha... | 20.929 | 149  | 1999     | 0.097 | ng    | 99       |
| 36) Indeno(1,2,3-cd)pyrene    | 25.105 | 276  | 4586     | 0.088 | ng    | 97       |
| 37) Benzo(b)fluoranthene      | 22.456 | 252  | 4243     | 0.097 | ng    | # 82     |
| 38) Benzo(k)fluoranthene      | 22.494 | 252  | 4378     | 0.100 | ng    | # 80     |
| 39) Benzo(a)pyrene            | 22.977 | 252  | 3913     | 0.102 | ng    | # 69     |
| 40) Dibenzo(a,h)anthracene    | 25.126 | 278  | 3588     | 0.087 | ng    | # 86     |
| 41) Benzo(g,h,i)perylene      | 25.725 | 276  | 3863     | 0.088 | ng    | # 93     |

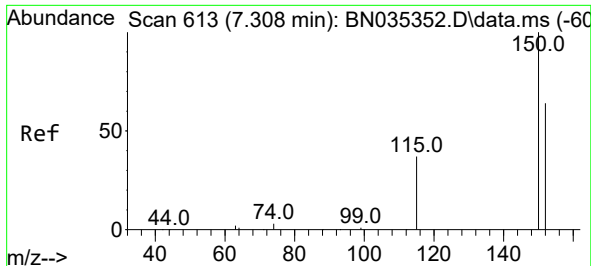
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Data File : BN035350.D  
Acq On : 27 Nov 2024 15:34  
Operator : RC/JU  
Sample : SSTDICC0.1  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

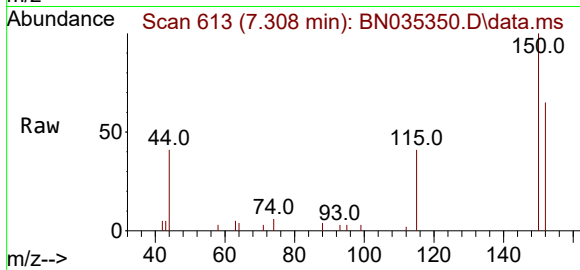
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Nov 27 22:48:24 2024  
Response via : Initial Calibration



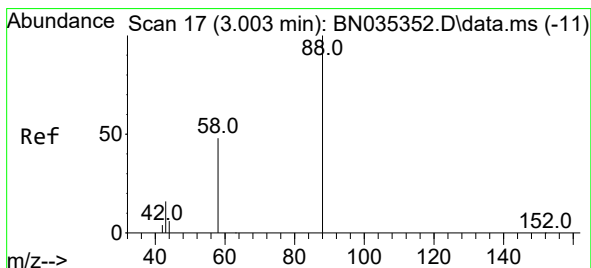
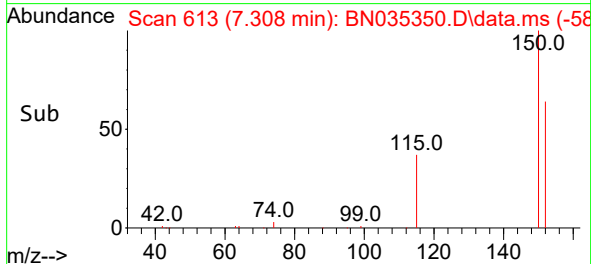
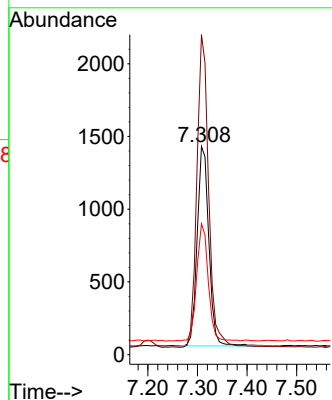


#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.308 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

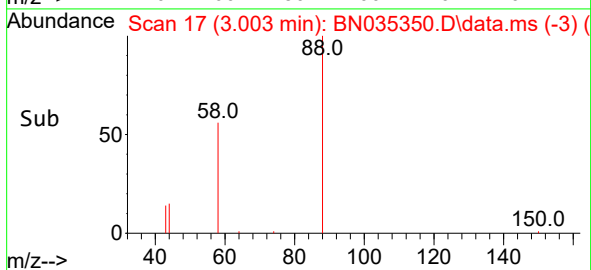
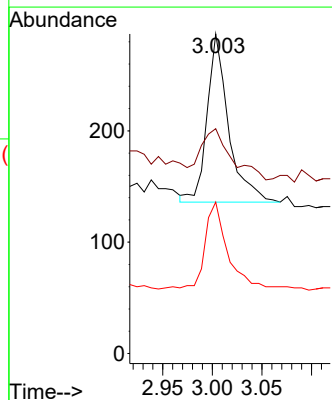
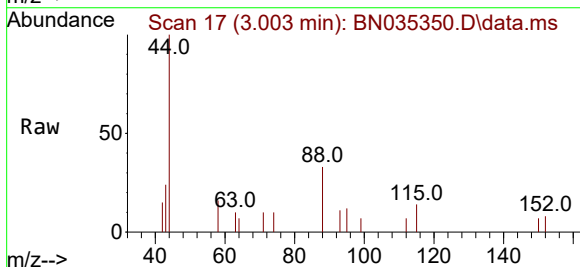


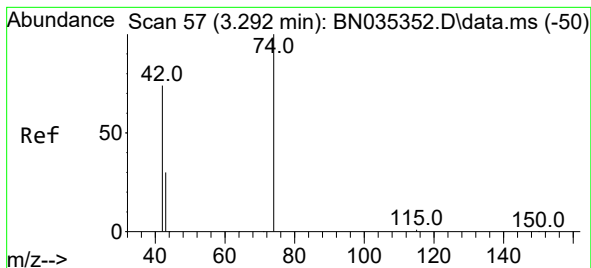
Tgt Ion:152 Resp: 2237  
Ion Ratio Lower Upper  
152 100  
150 153.6 124.0 186.0  
115 62.8 49.6 74.4



#2  
1,4-Dioxane  
Concen: 0.112 ng  
RT: 3.003 min Scan# 17  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

Tgt Ion: 88 Resp: 227  
Ion Ratio Lower Upper  
88 100  
43 41.4 17.2 25.8#  
58 54.6 44.5 66.7





#3

n-Nitrosodimethylamine

Concen: 0.099 ng

RT: 3.299 min Scan# 51

Delta R.T. 0.007 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.1

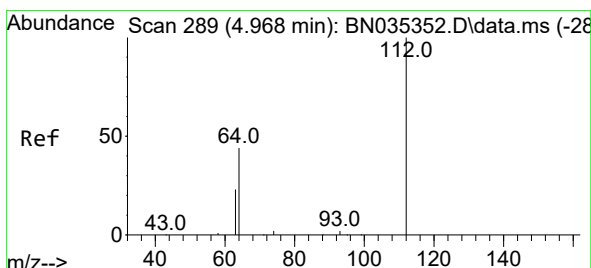
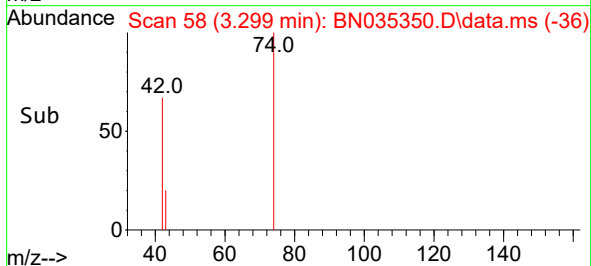
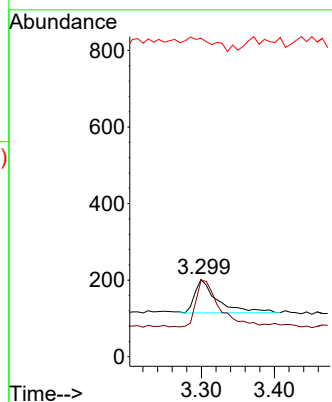
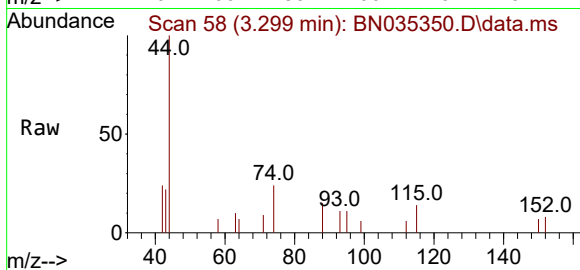
Tgt Ion: 42 Resp: 187

Ion Ratio Lower Upper

42 100

74 146.5 124.9 187.3

44 51.9 2.2 3.4#



#4

2-Fluorophenol

Concen: 0.101 ng

RT: 4.968 min Scan# 289

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

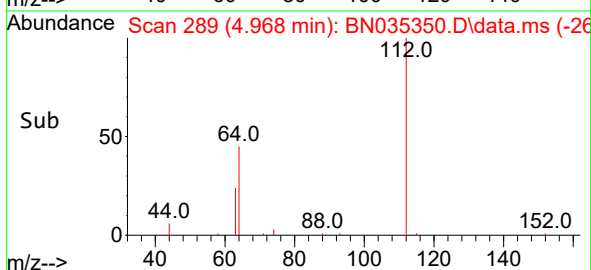
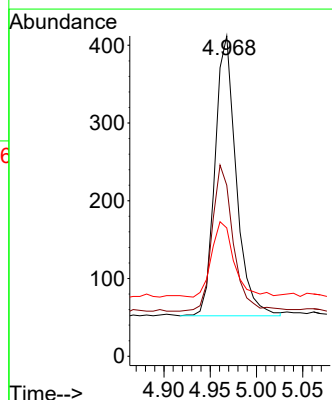
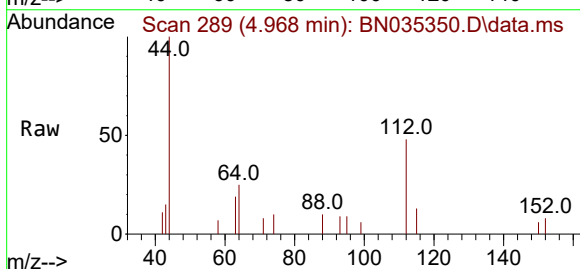
Tgt Ion: 112 Resp: 573

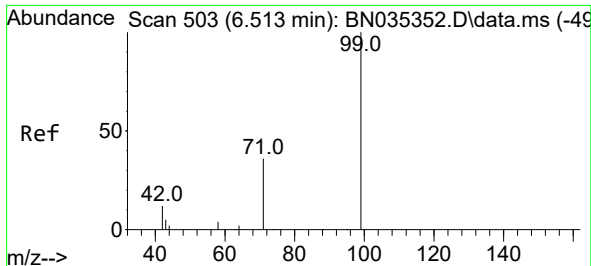
Ion Ratio Lower Upper

112 100

64 52.0 39.8 59.8

63 28.8 21.0 31.6

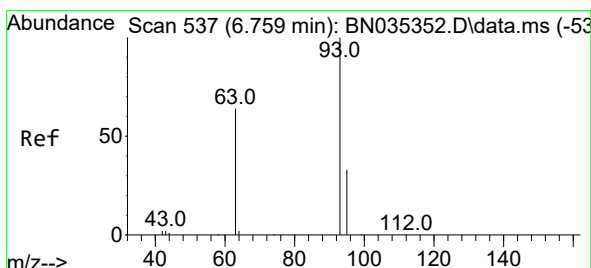
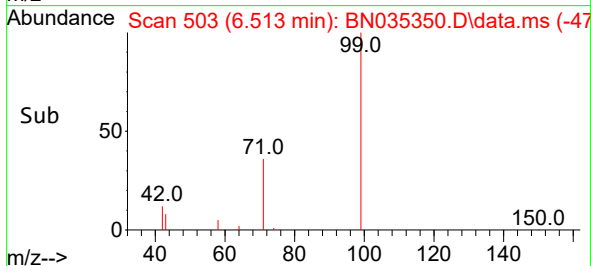
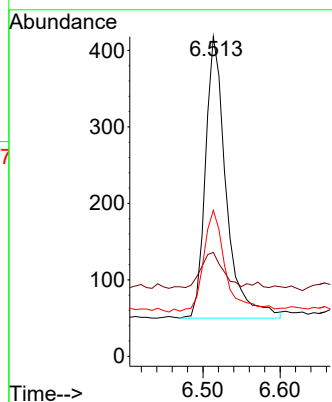
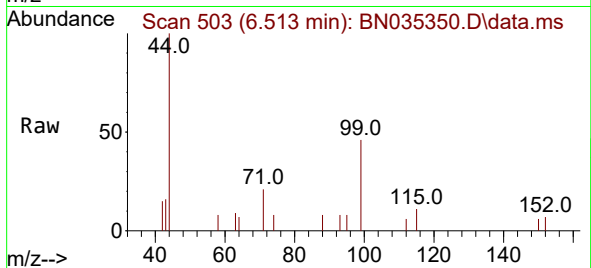




#5  
Phenol-d6  
Concen: 0.096 ng  
RT: 6.513 min Scan# 503  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

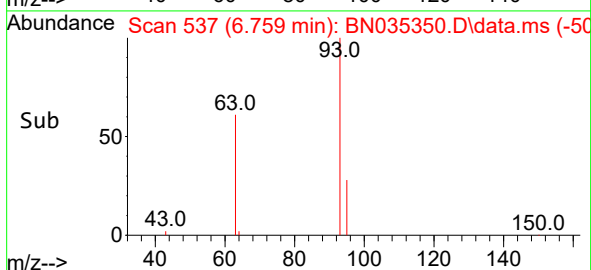
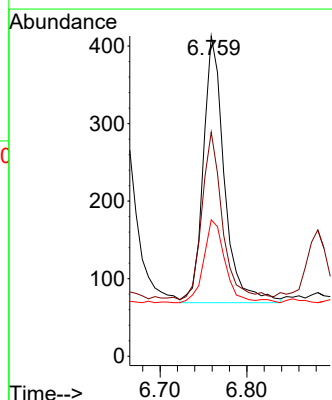
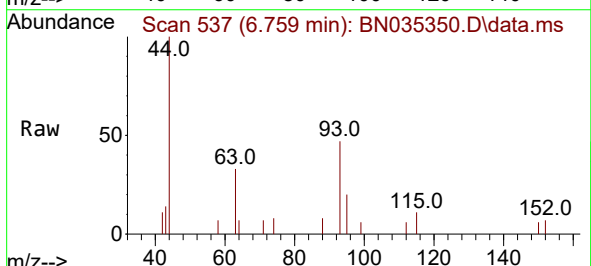
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

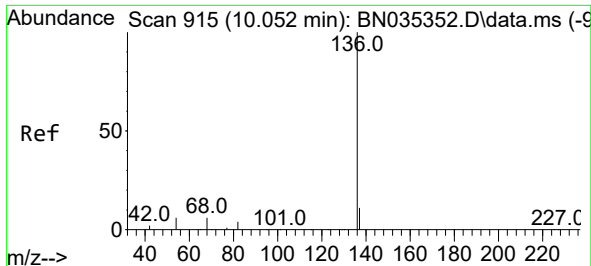
Tgt Ion: 99 Resp: 686  
Ion Ratio Lower Upper  
99 100  
42 13.7 11.4 17.2  
71 38.9 29.3 43.9



#6  
bis(2-Chloroethyl)ether  
Concen: 0.108 ng  
RT: 6.759 min Scan# 537  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

Tgt Ion: 93 Resp: 579  
Ion Ratio Lower Upper  
93 100  
63 61.7 50.4 75.6  
95 31.3 25.7 38.5

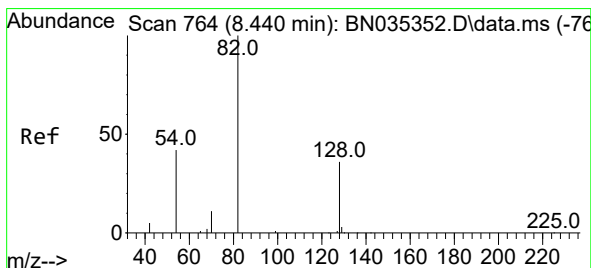
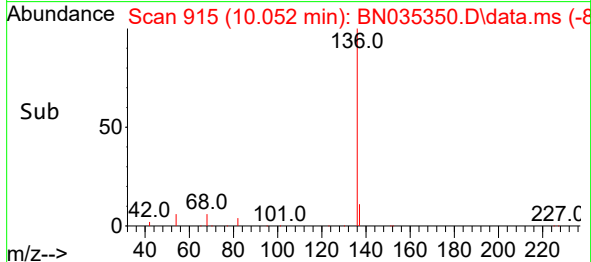
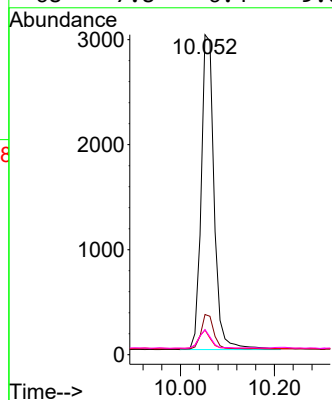
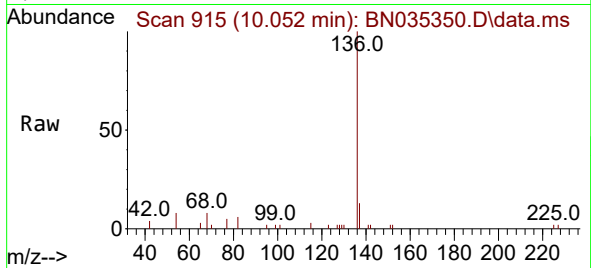




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.052 min Scan# 915  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

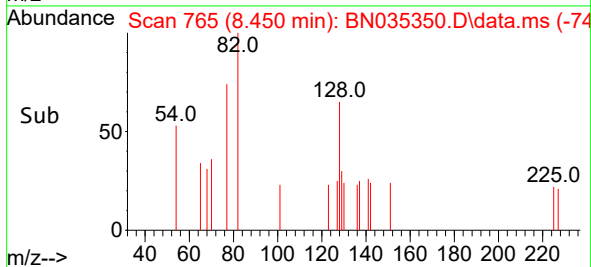
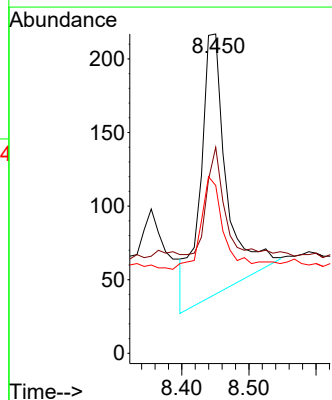
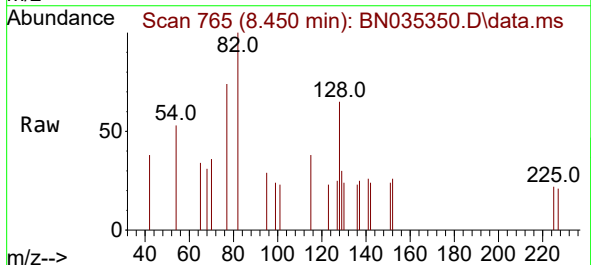
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SSTDICC0.1

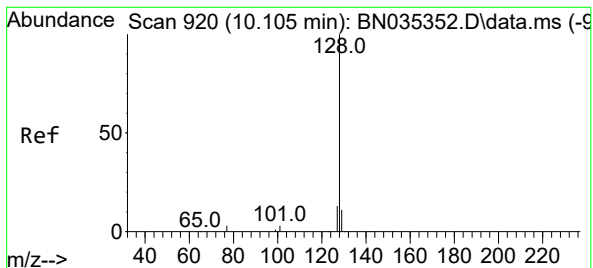
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 136   | Resp: | 5753 |
| Ion Ratio | Lower | Upper |      |
| 136       | 100   |       |      |
| 137       | 12.6  | 10.2  | 15.2 |
| 54        | 7.7   | 6.1   | 9.1  |
| 68        | 7.8   | 6.4   | 9.6  |



#8  
Nitrobenzene-d5  
Concen: 0.098 ng  
RT: 8.450 min Scan# 765  
Delta R.T. 0.011 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 82    | Resp: | 492   |
| Ion Ratio | Lower | Upper |       |
| 82        | 100   |       |       |
| 128       | 64.5  | 33.4  | 50.0# |
| 54        | 52.5  | 36.7  | 55.1  |





#9

Naphthalene

Concen: 0.102 ng

RT: 10.105 min Scan# 91

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.1

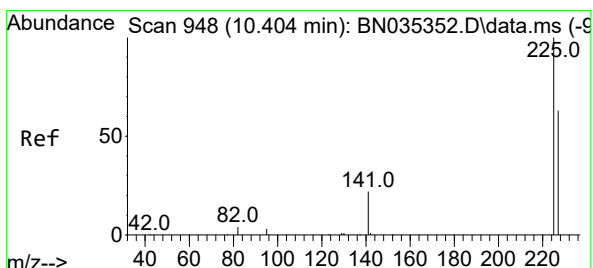
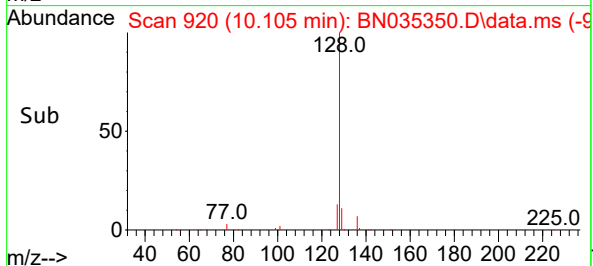
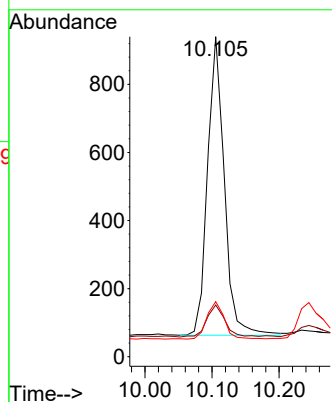
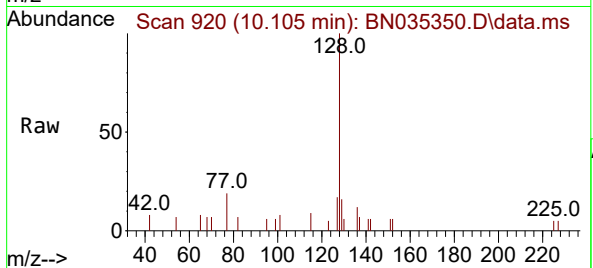
Tgt Ion:128 Resp: 1527

Ion Ratio Lower Upper

128 100

129 16.2 9.8 14.6#

127 17.2 11.4 17.2#



#10

Hexachlorobutadiene

Concen: 0.080 ng

RT: 10.404 min Scan# 948

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

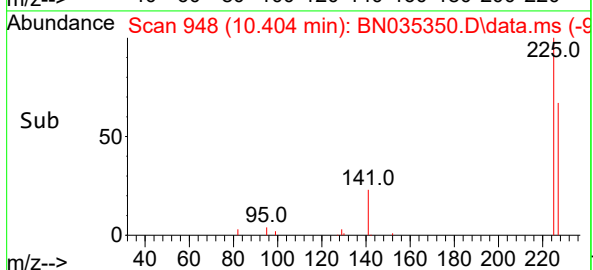
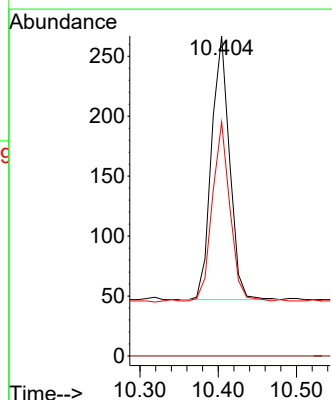
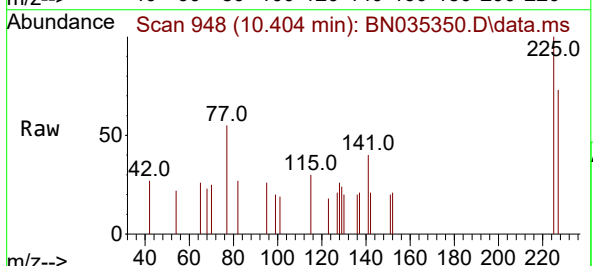
Tgt Ion:225 Resp: 352

Ion Ratio Lower Upper

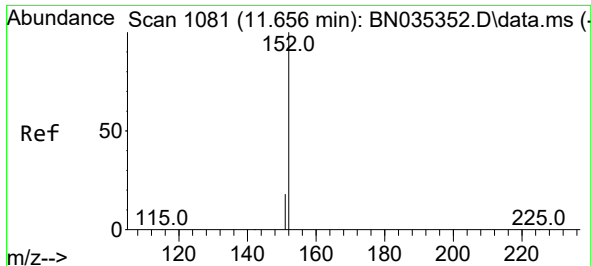
225 100

223 0.0 0.0 0.0

227 66.2 51.3 76.9



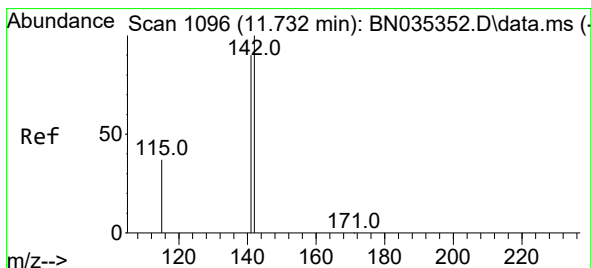
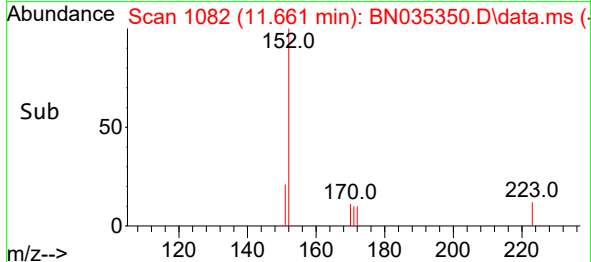
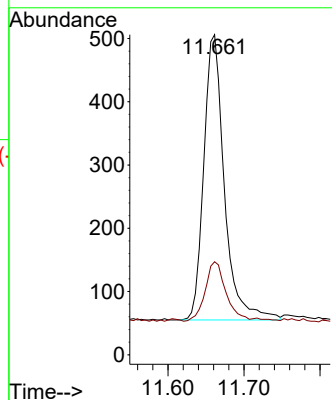
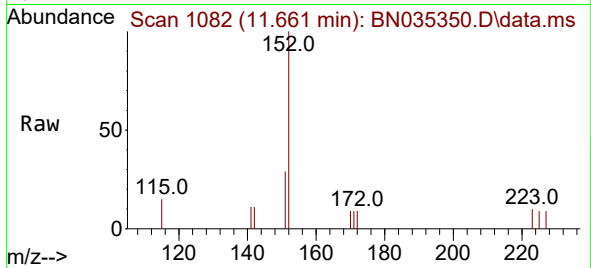




#11  
2-Methylnaphthalene-d10  
Concen: 0.083 ng  
RT: 11.661 min Scan# 1082  
Delta R.T. 0.005 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

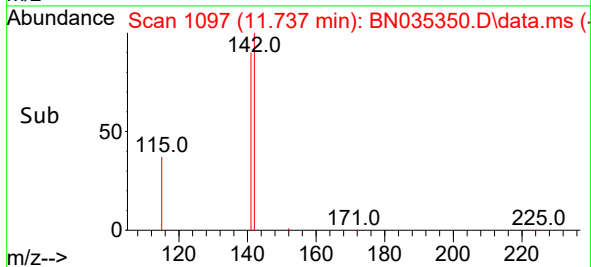
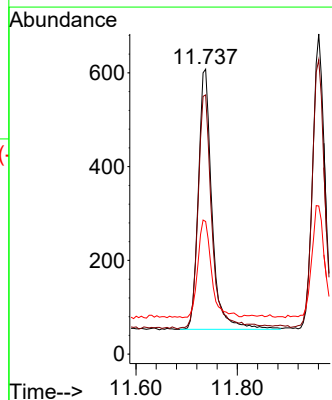
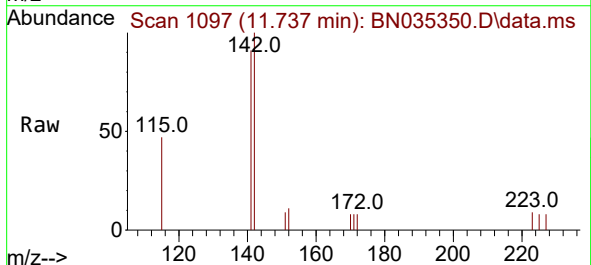
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ClientSampleId :  
SSTDICC0.1

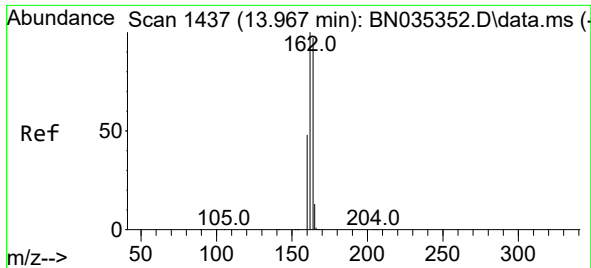
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Ion Ratio Lower Upper  
152 100  
151 21.1 16.6 25.0



#12  
2-Methylnaphthalene  
Concen: 0.094 ng  
RT: 11.737 min Scan# 1097  
Delta R.T. 0.005 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

Tgt Ion:142 Resp: 1042  
Ion Ratio Lower Upper  
142 100  
141 91.0 72.2 108.4  
115 46.5 31.4 47.0

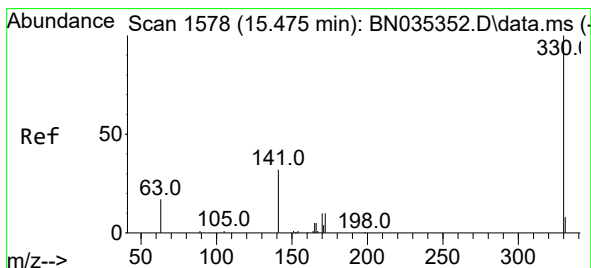
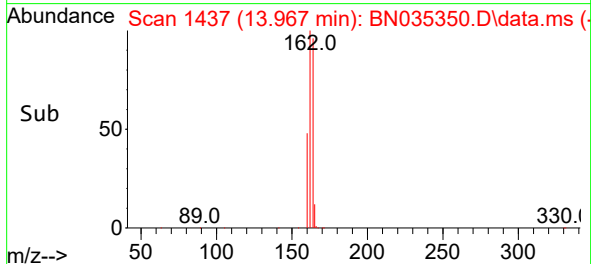
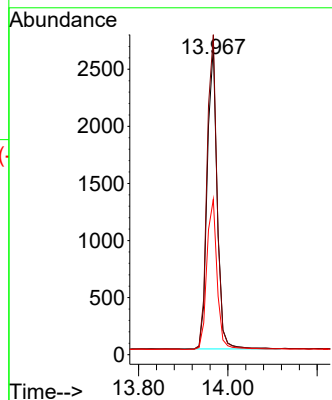
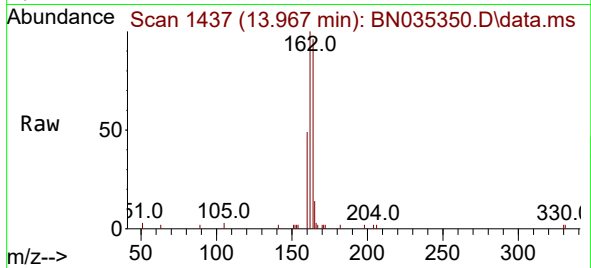




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.967 min Scan# 1437  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

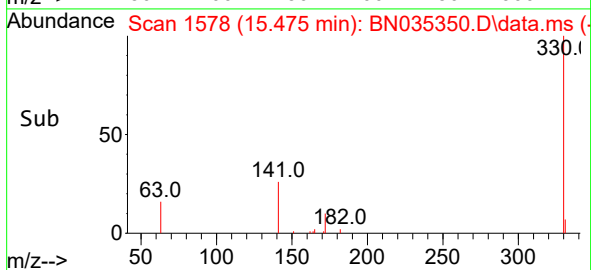
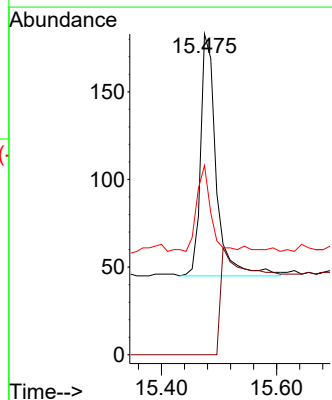
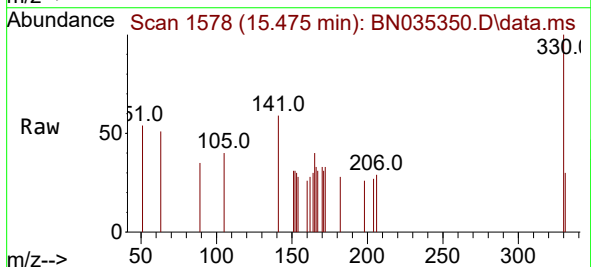
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

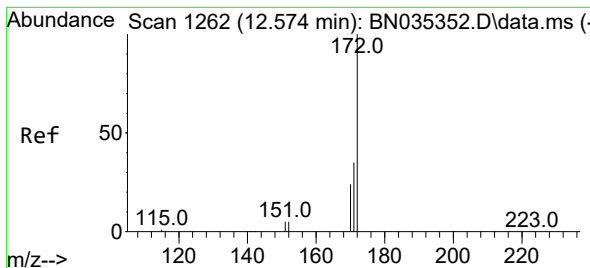
Tgt Ion:164 Resp: 4077  
Ion Ratio Lower Upper  
164 100  
162 103.9 82.2 123.2  
160 50.4 40.1 60.1



#14  
2,4,6-Tribromophenol  
Concen: 0.095 ng  
RT: 15.475 min Scan# 1578  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

Tgt Ion:330 Resp: 278  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 29.1 26.6 40.0





#15

2-Fluorobiphenyl

Concen: 0.092 ng

RT: 12.574 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.1

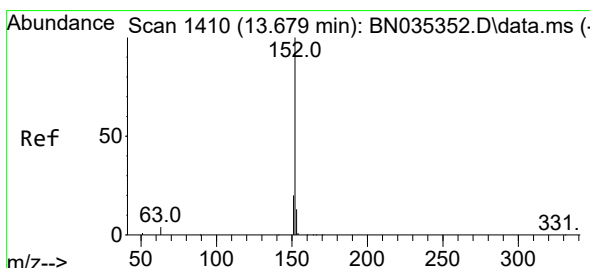
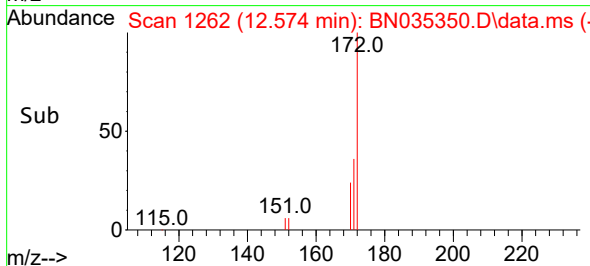
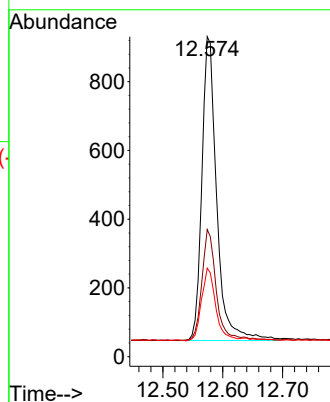
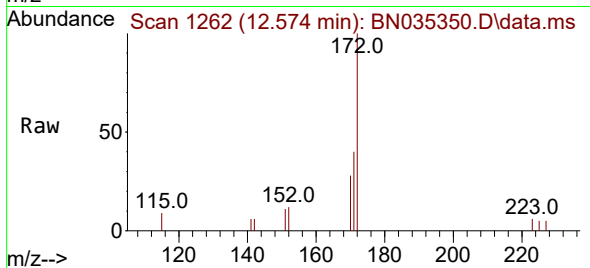
Tgt Ion:172 Resp: 1518

Ion Ratio Lower Upper

172 100

171 39.7 29.0 43.4

170 27.7 19.8 29.8



#16

Acenaphthylene

Concen: 0.096 ng

RT: 13.679 min Scan# 1410

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

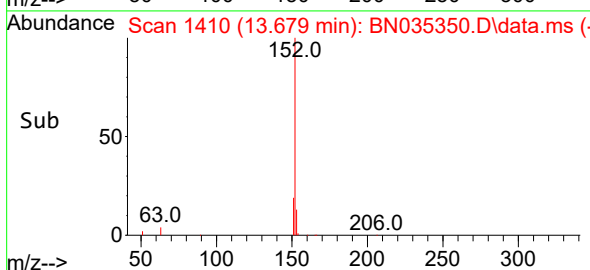
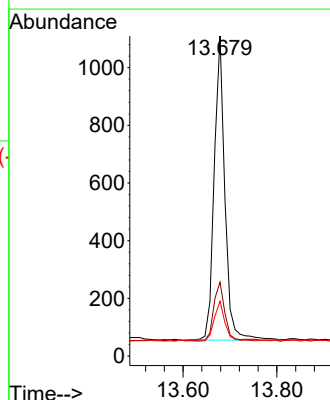
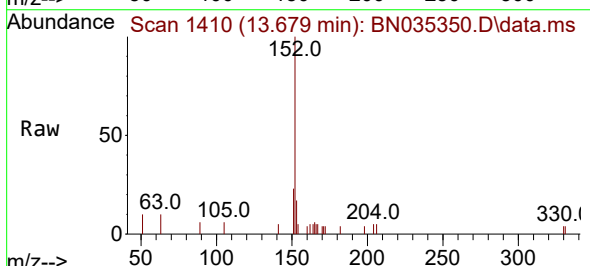
Tgt Ion:152 Resp: 1675

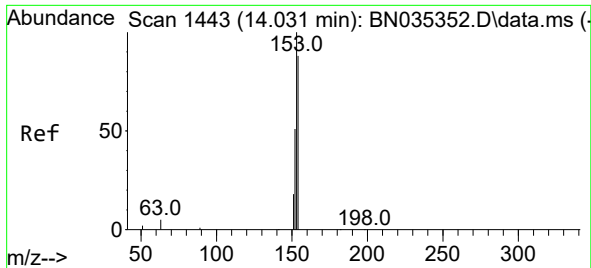
Ion Ratio Lower Upper

152 100

151 20.4 16.2 24.2

153 13.1 10.4 15.6

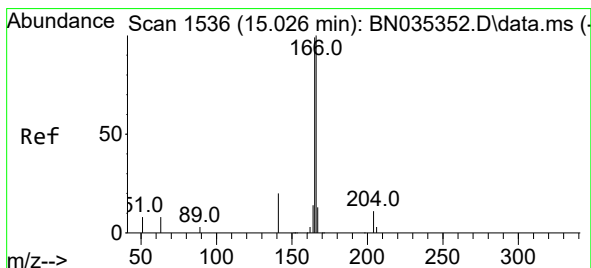
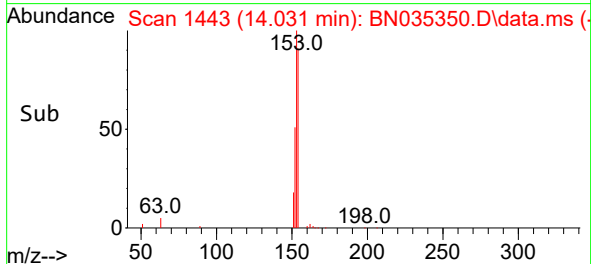
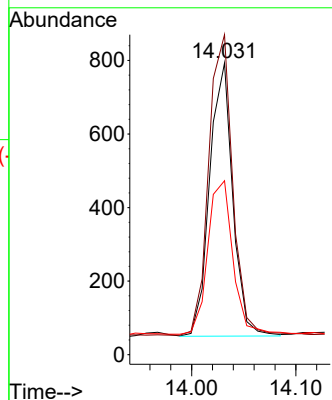
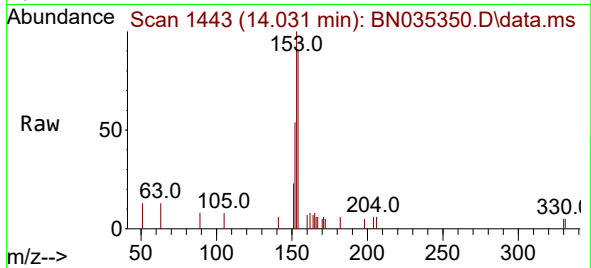




#17  
Acenaphthene  
Concen: 0.100 ng  
RT: 14.031 min Scan# 1443  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

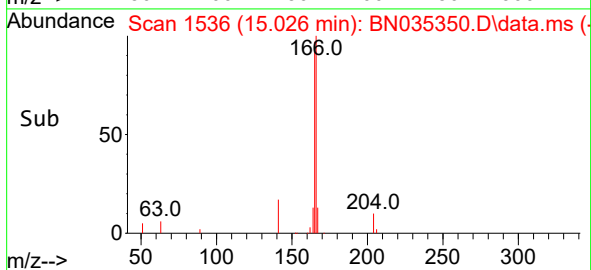
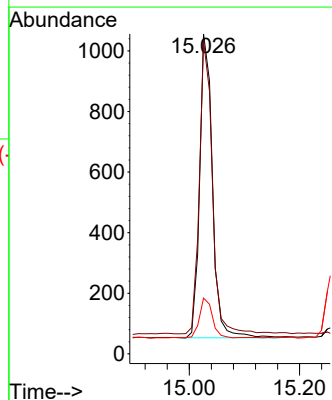
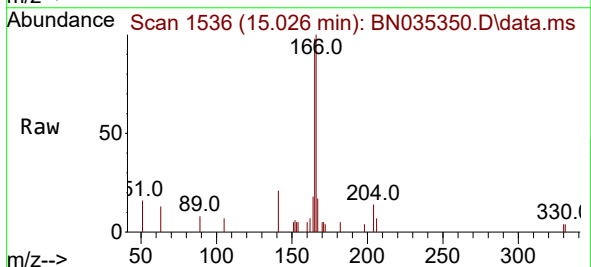
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

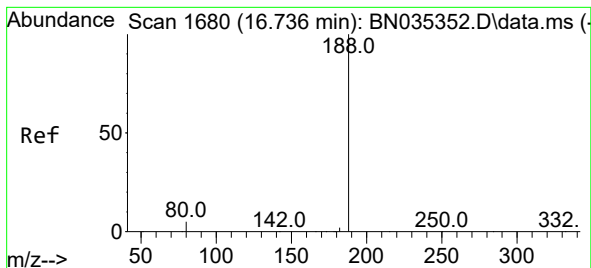
Tgt Ion:154 Resp: 1143  
Ion Ratio Lower Upper  
154 100  
153 115.0 92.6 139.0  
152 60.9 49.0 73.6



#18  
Fluorene  
Concen: 0.096 ng  
RT: 15.026 min Scan# 1536  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

Tgt Ion:166 Resp: 1620  
Ion Ratio Lower Upper  
166 100  
165 97.7 79.7 119.5  
167 13.1 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.736 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.1

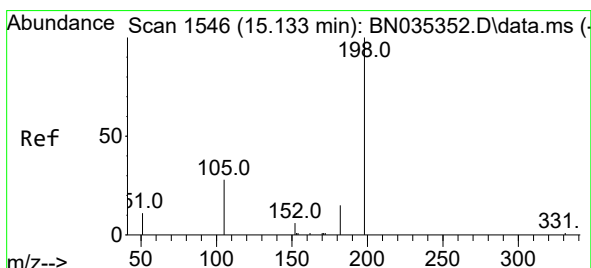
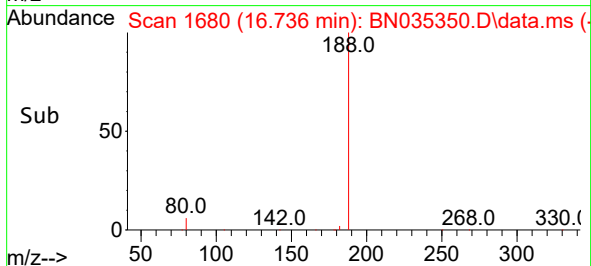
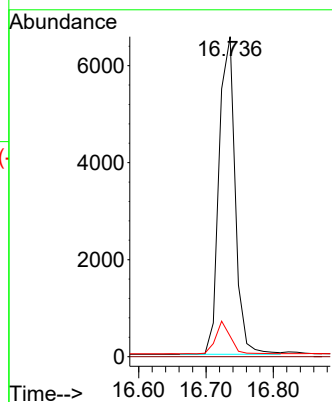
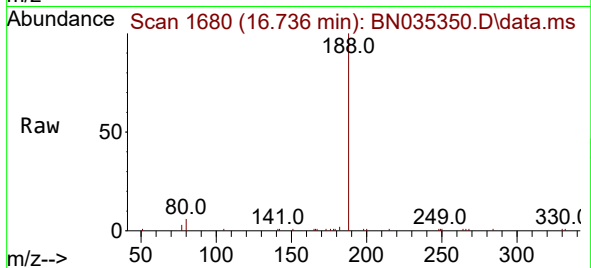
Tgt Ion:188 Resp: 10855

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 6.4 4.6 6.8



#20

4,6-Dinitro-2-methylphenol

Concen: 0.046 ng

RT: 15.133 min Scan# 1546

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

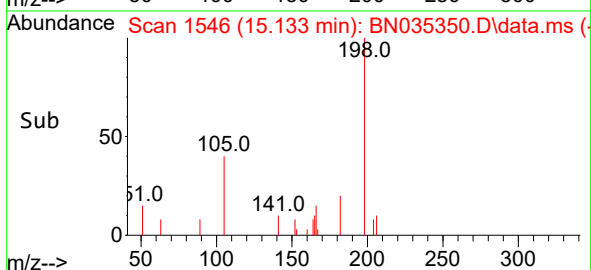
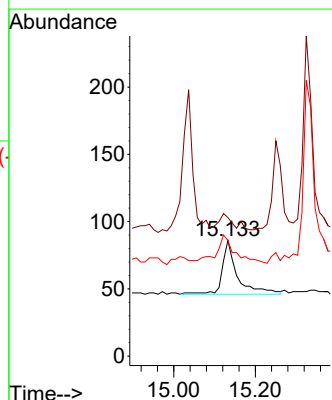
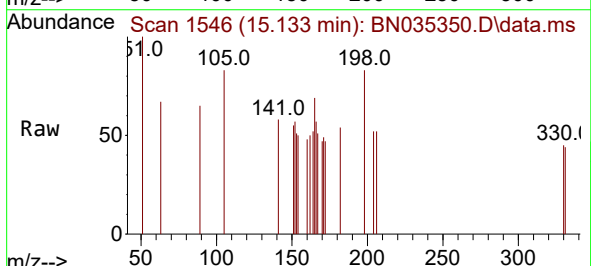
Tgt Ion:198 Resp: 103

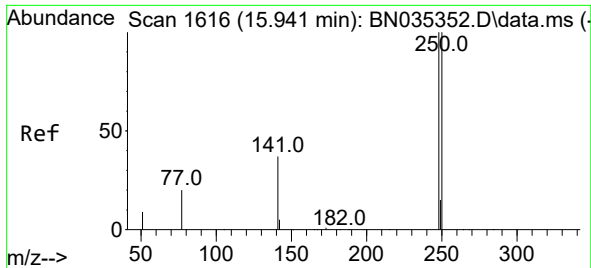
Ion Ratio Lower Upper

198 100

51 119.8 46.5 69.7#

105 100.0 45.3 67.9#

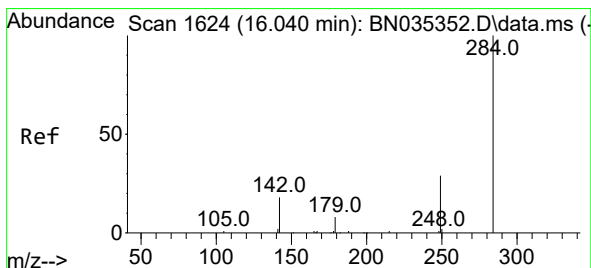
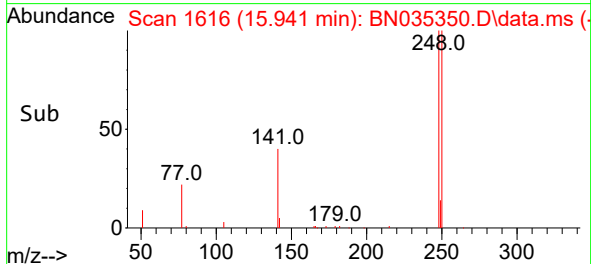
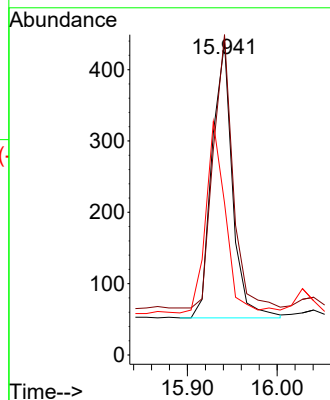
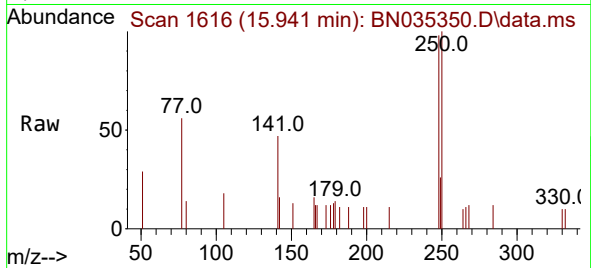




#21  
4-Bromophenyl-phenylether  
Concen: 0.088 ng  
RT: 15.941 min Scan# 1616  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

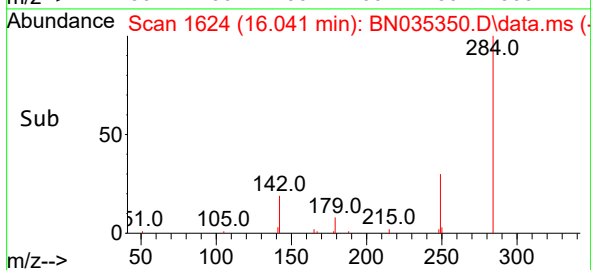
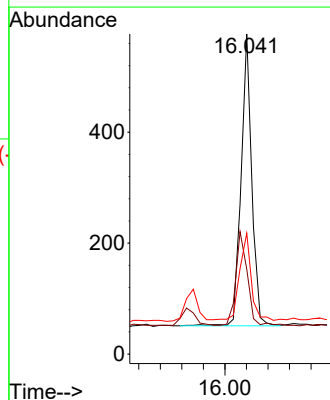
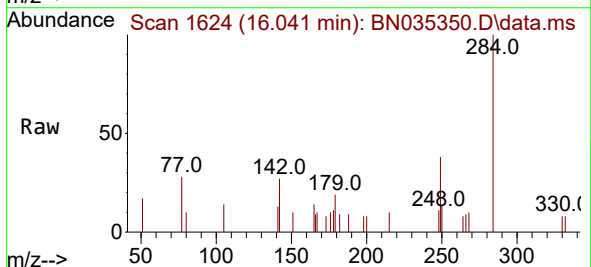
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

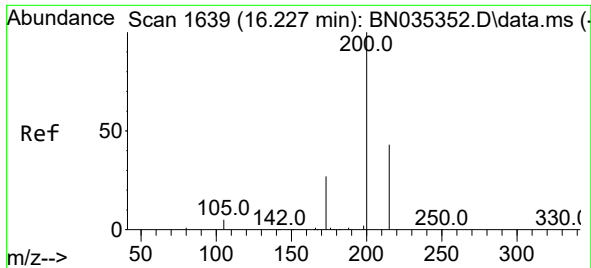
Tgt Ion:248 Resp: 612  
Ion Ratio Lower Upper  
248 100  
250 102.5 80.6 120.8  
141 48.6 31.5 47.3#



#22  
Hexachlorobenzene  
Concen: 0.100 ng  
RT: 16.041 min Scan# 1624  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

Tgt Ion:284 Resp: 720  
Ion Ratio Lower Upper  
284 100  
142 35.4 26.7 40.1  
249 32.2 24.6 36.8

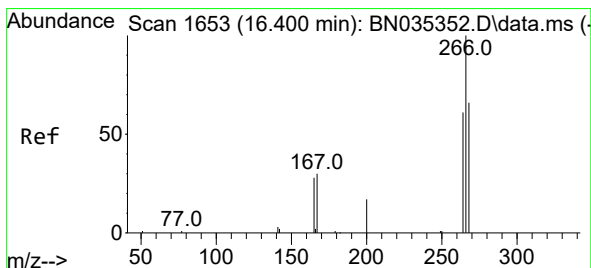
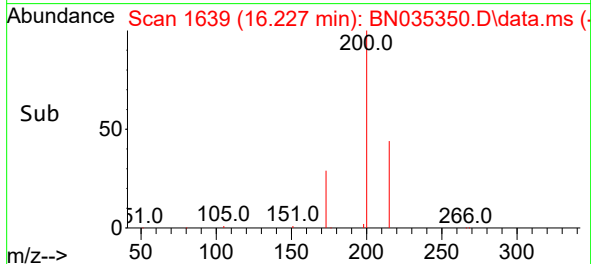
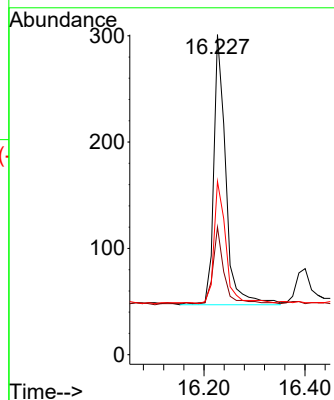
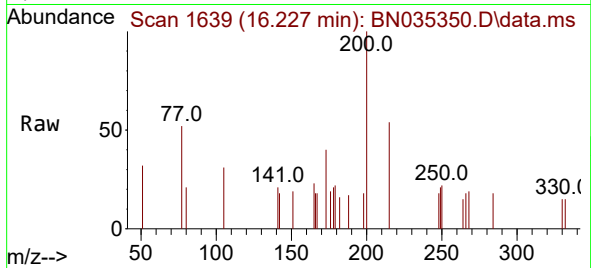




#23  
Atrazine  
Concen: 0.068 ng  
RT: 16.227 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

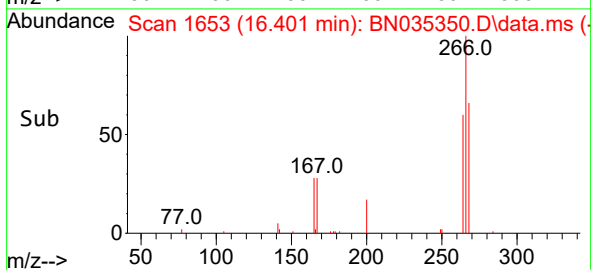
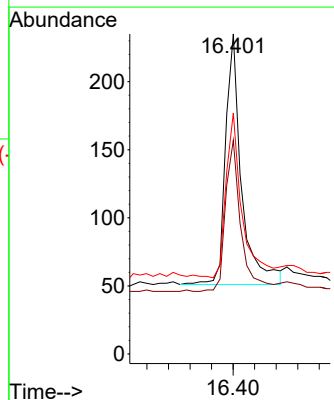
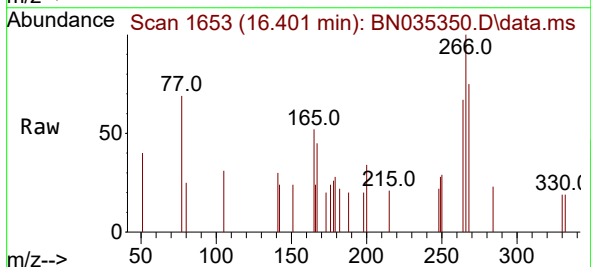
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

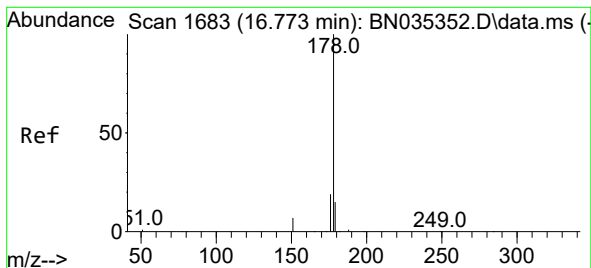
Tgt Ion:200 Resp: 421  
Ion Ratio Lower Upper  
200 100  
173 39.9 24.1 36.1#  
215 54.2 36.9 55.3



#24  
Pentachlorophenol  
Concen: 0.114 ng  
RT: 16.401 min Scan# 1653  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

Tgt Ion:266 Resp: 381  
Ion Ratio Lower Upper  
266 100  
264 58.3 42.3 63.5  
268 63.3 43.3 64.9





#25

Phenanthrene

Concen: 0.104 ng

RT: 16.773 min Scan# 1683

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.1

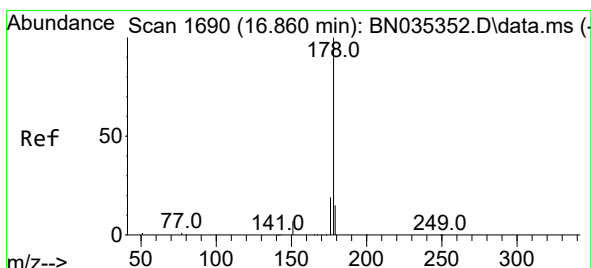
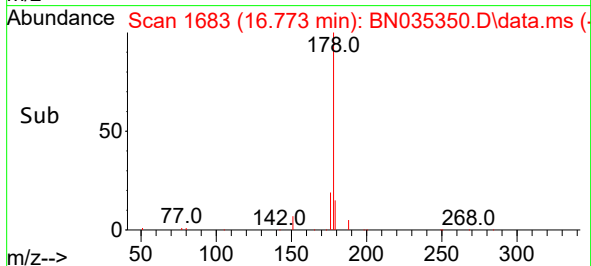
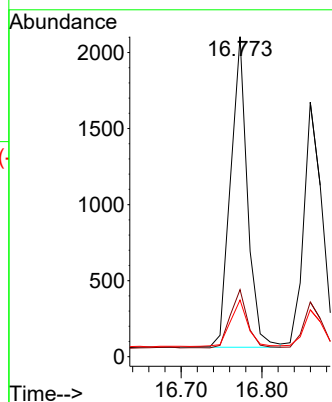
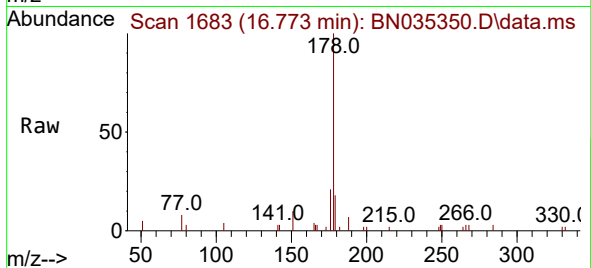
Tgt Ion:178 Resp: 2963

Ion Ratio Lower Upper

178 100

176 18.8 15.4 23.2

179 15.6 12.3 18.5



#26

Anthracene

Concen: 0.100 ng

RT: 16.860 min Scan# 1690

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

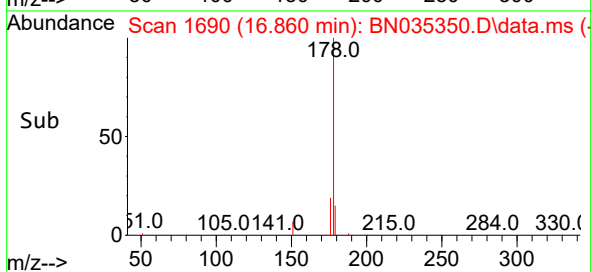
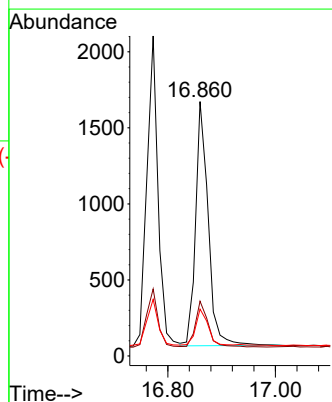
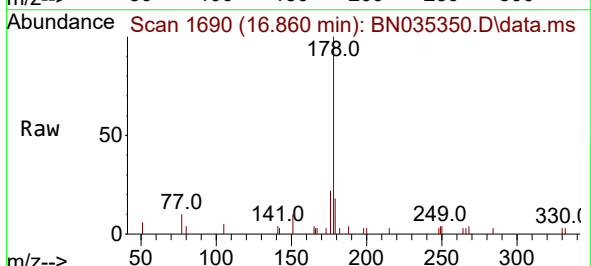
Tgt Ion:178 Resp: 2617

Ion Ratio Lower Upper

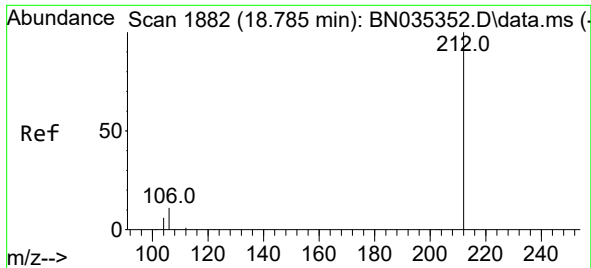
178 100

176 18.8 15.0 22.6

179 14.3 12.6 18.8



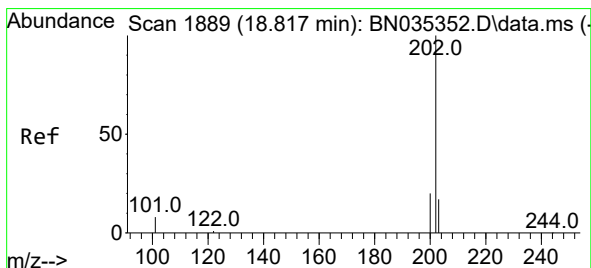
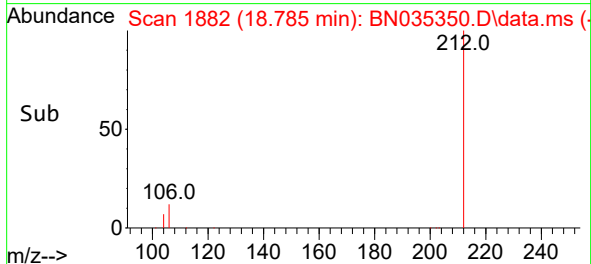
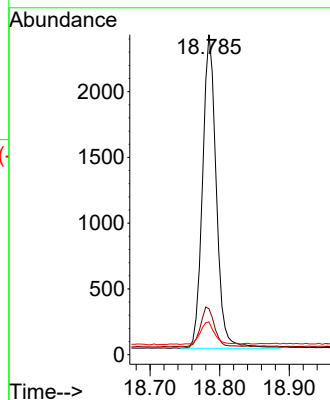
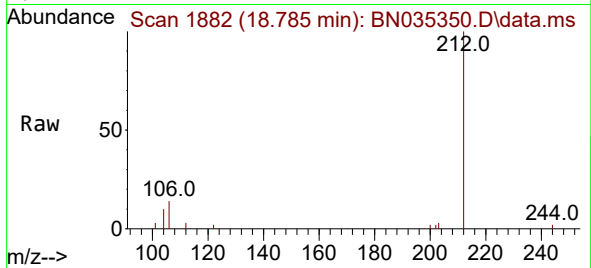




#27  
Fluoranthene-d10  
Concen: 0.098 ng  
RT: 18.785 min Scan# 1882  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

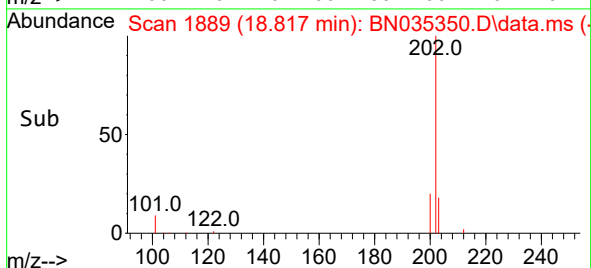
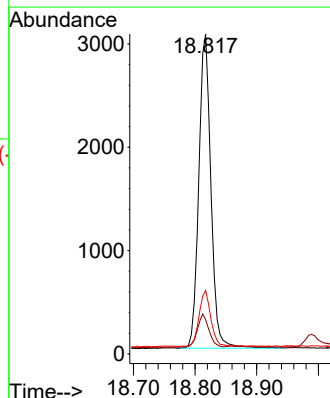
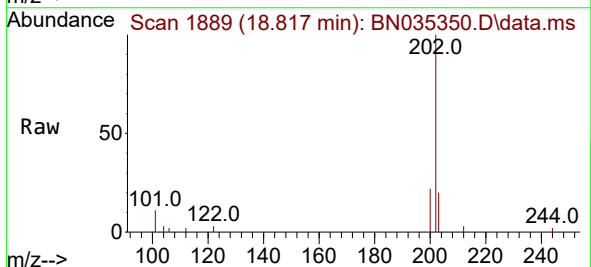
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ClientSampleId :  
SSTDICC0.1

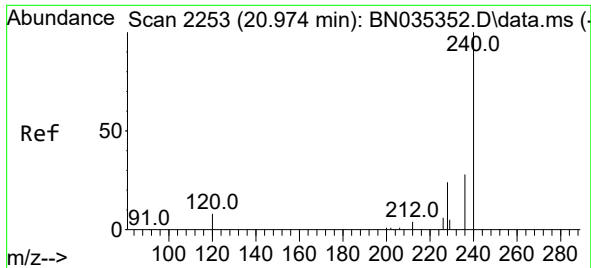
Tgt Ion:212 Resp: 3265  
Ion Ratio Lower Upper  
212 100  
106 12.8 9.2 13.8  
104 7.6 5.3 7.9



#28  
Fluoranthene  
Concen: 0.106 ng  
RT: 18.817 min Scan# 1889  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

Tgt Ion:202 Resp: 4173  
Ion Ratio Lower Upper  
202 100  
101 10.2 7.4 11.0  
203 17.3 13.7 20.5

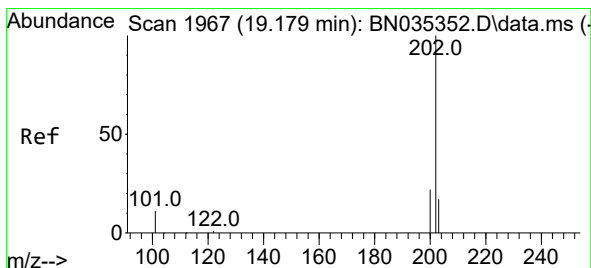
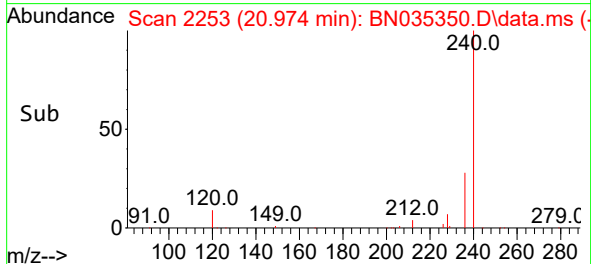
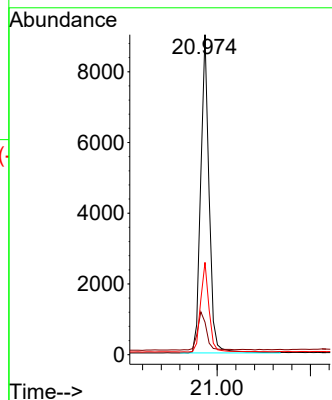
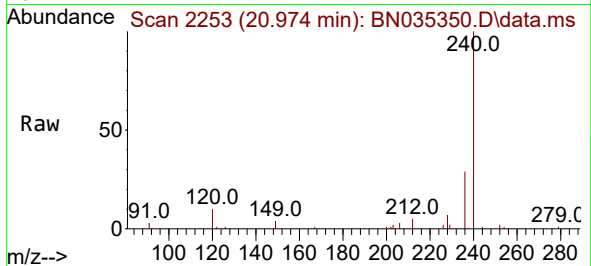




#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 20.974 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

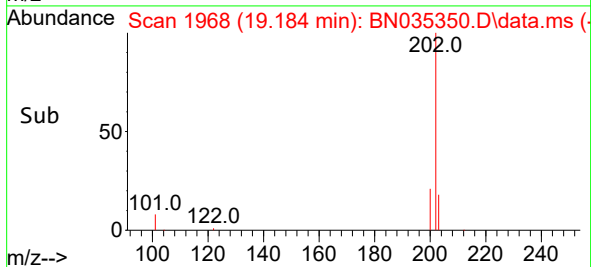
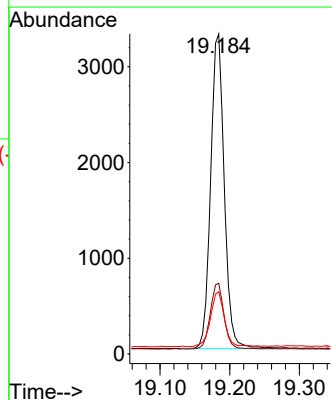
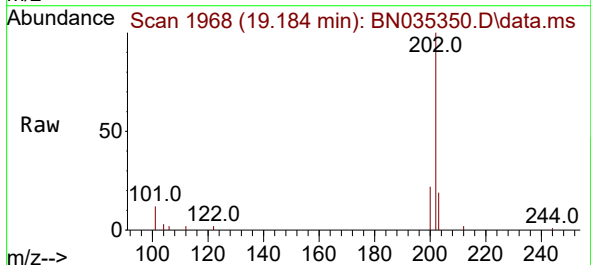
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BNA\_N  
ClientSampleId :  
SSTDICC0.1

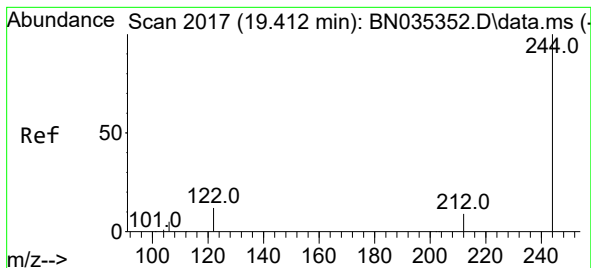
Tgt Ion:240 Resp: 11269  
Ion Ratio Lower Upper  
240 100  
120 10.1 7.9 11.9  
236 28.8 22.9 34.3



#30  
Pyrene  
Concen: 0.119 ng  
RT: 19.184 min Scan# 1968  
Delta R.T. 0.005 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

Tgt Ion:202 Resp: 4461  
Ion Ratio Lower Upper  
202 100  
200 21.1 17.0 25.4  
203 18.0 14.3 21.5





#31

Terphenyl-d14

Concen: 0.099 ng

RT: 19.412 min Scan# 2017

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.1

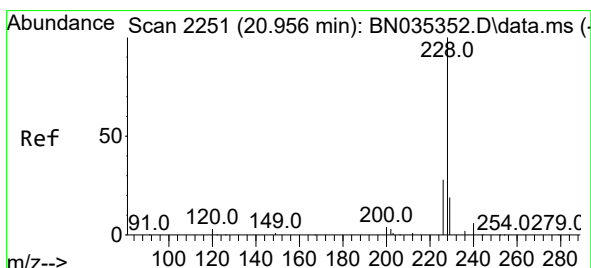
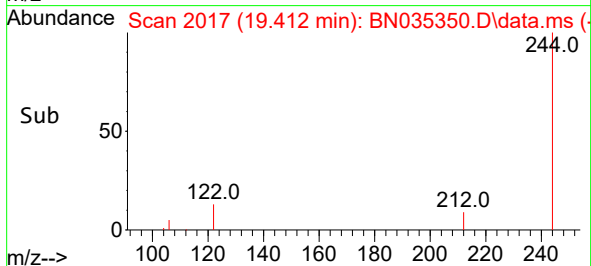
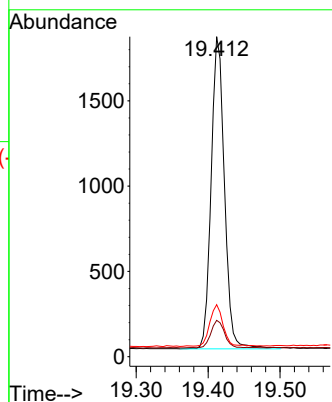
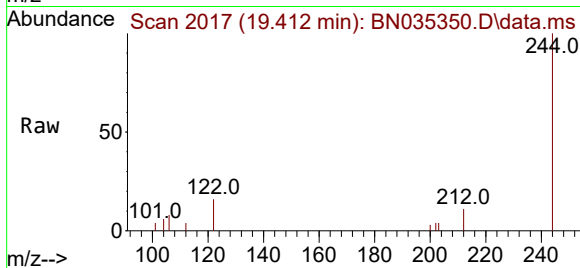
Tgt Ion:244 Resp: 2344

Ion Ratio Lower Upper

244 100

212 11.4 8.1 12.1

122 16.3 10.3 15.5#



#32

Benzo(a)anthracene

Concen: 0.103 ng

RT: 20.956 min Scan# 2251

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

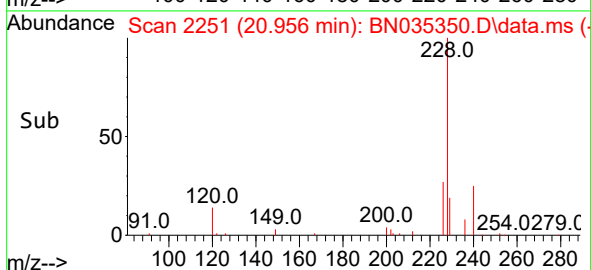
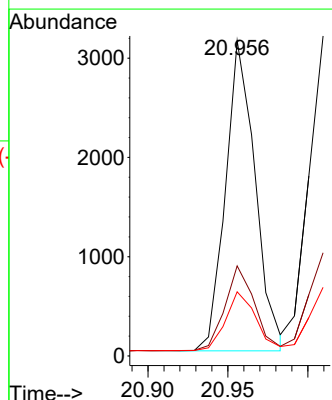
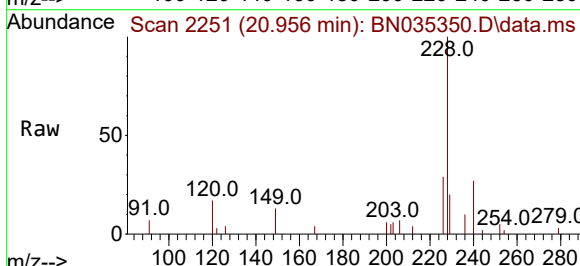
Tgt Ion:228 Resp: 4031

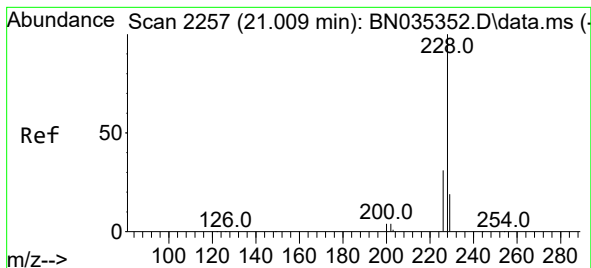
Ion Ratio Lower Upper

228 100

226 28.5 22.5 33.7

229 20.4 15.8 23.8





#33

Chrysene

Concen: 0.106 ng

RT: 21.010 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.1

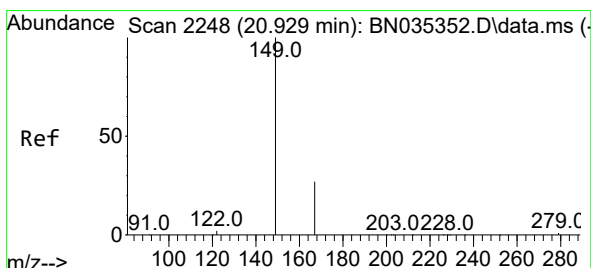
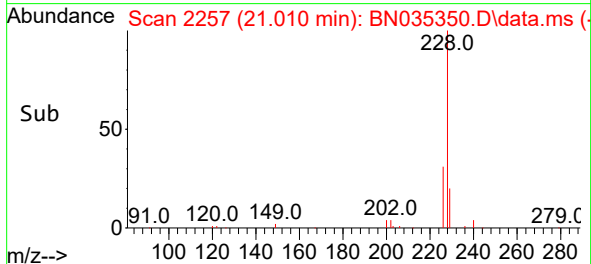
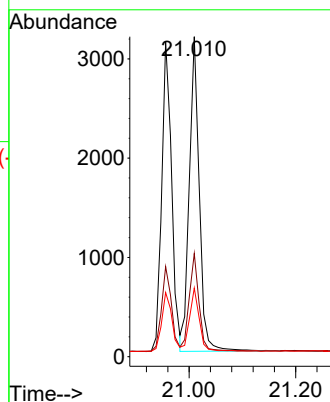
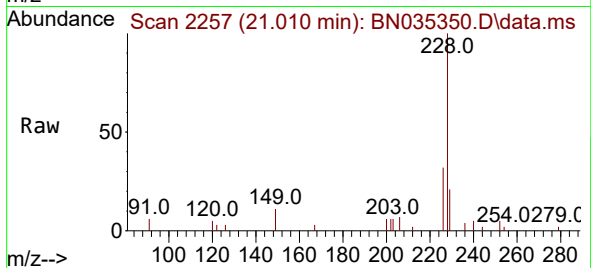
Tgt Ion:228 Resp: 4123

Ion Ratio Lower Upper

228 100

226 32.3 24.6 37.0

229 21.5 15.9 23.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.097 ng

RT: 20.929 min Scan# 2248

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

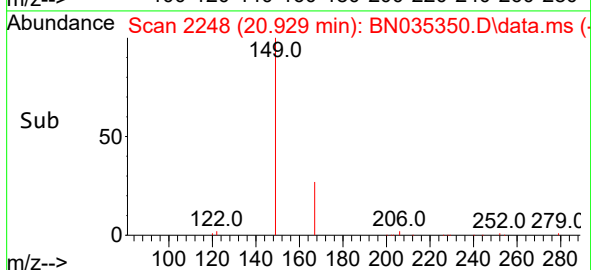
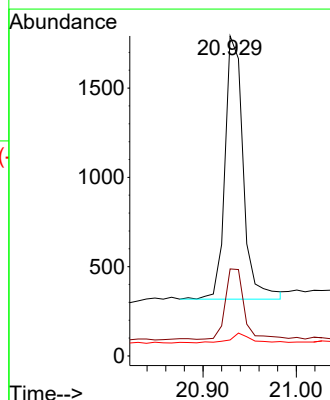
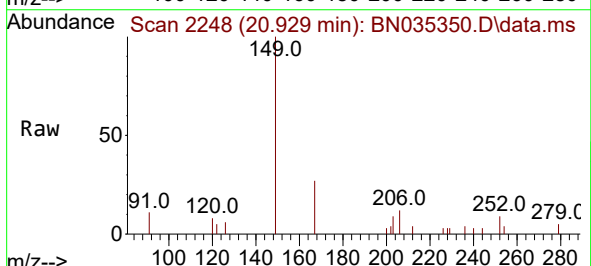
Tgt Ion:149 Resp: 1999

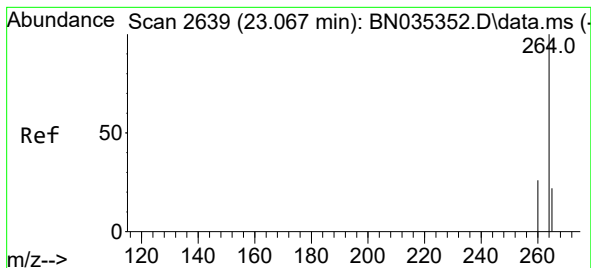
Ion Ratio Lower Upper

149 100

167 27.5 22.2 33.4

279 3.6 2.7 4.1





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.067 min Scan# 2

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.1

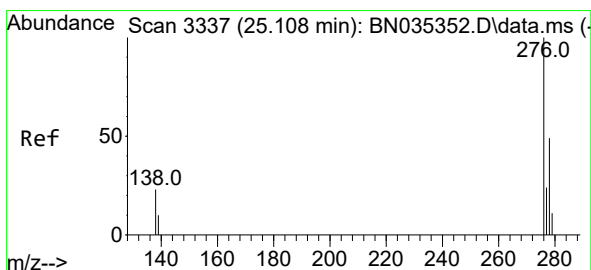
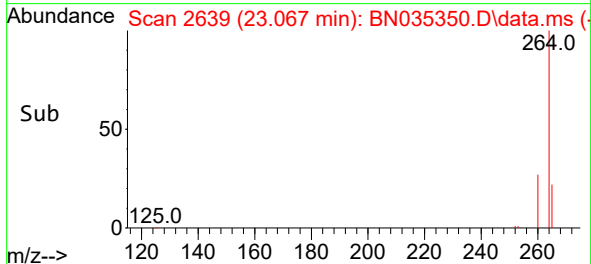
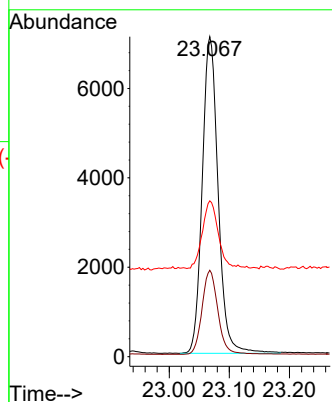
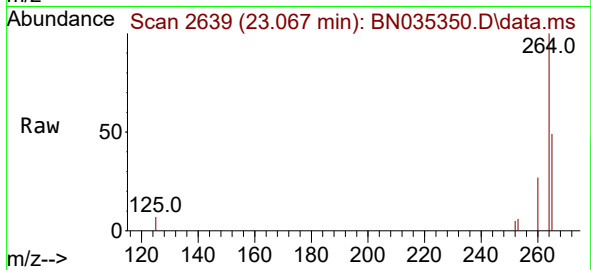
Tgt Ion:264 Resp: 13004

Ion Ratio Lower Upper

264 100

260 27.0 21.4 32.2

265 48.7 40.2 60.4



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.088 ng

RT: 25.105 min Scan# 3336

Delta R.T. -0.003 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

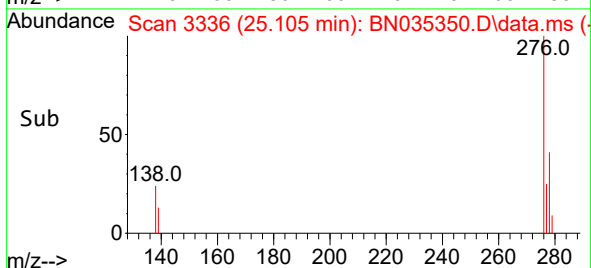
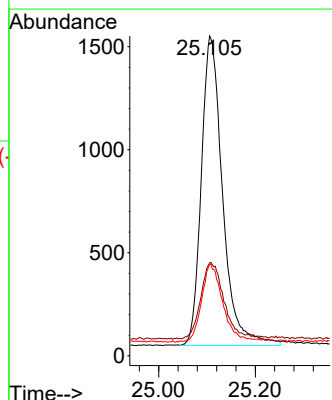
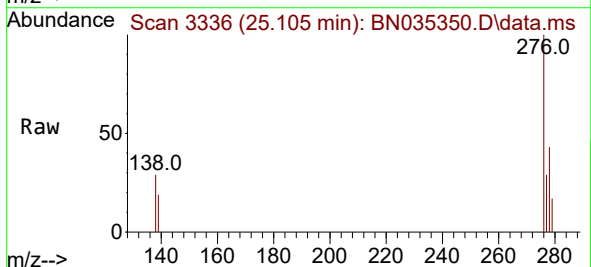
Tgt Ion:276 Resp: 4586

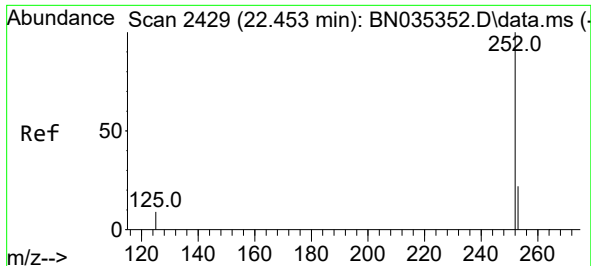
Ion Ratio Lower Upper

276 100

138 26.2 19.4 29.0

277 25.6 19.8 29.6

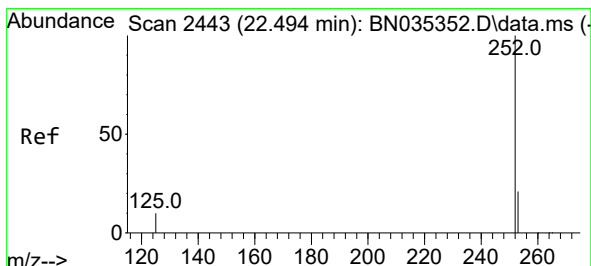
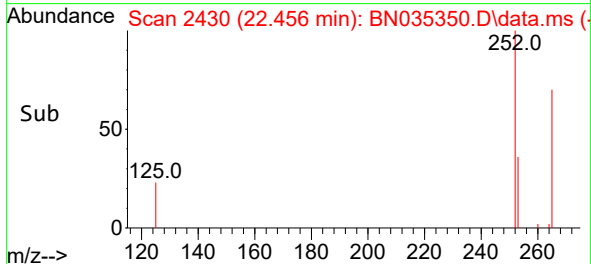
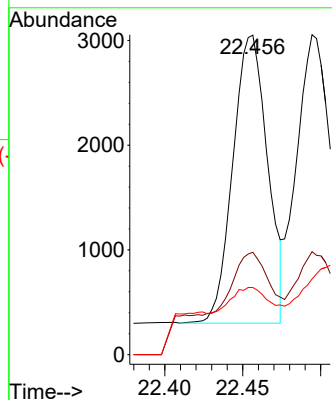
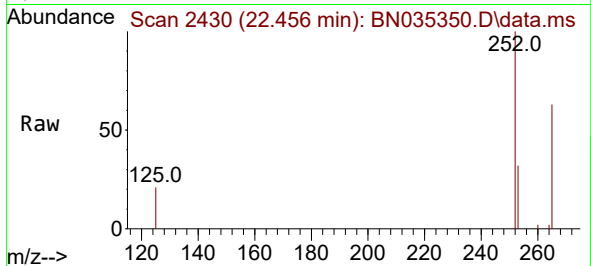




#37  
Benzo(b)fluoranthene  
Concen: 0.097 ng  
RT: 22.456 min Scan# 2430  
Delta R.T. 0.003 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

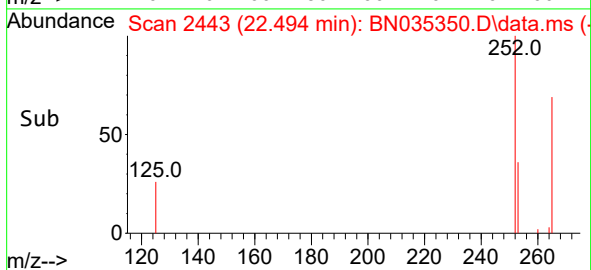
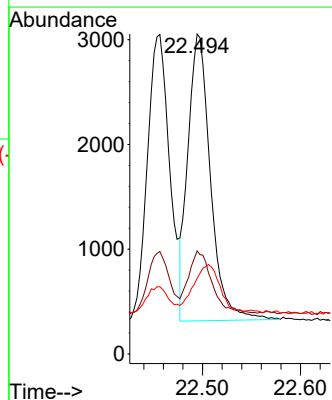
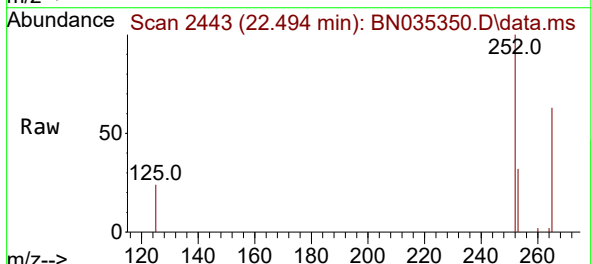
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

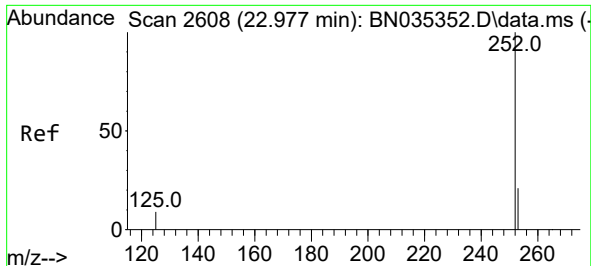
Tgt Ion:252 Resp: 4243  
Ion Ratio Lower Upper  
252 100  
253 32.1 19.6 29.4#  
125 21.0 9.6 14.4#



#38  
Benzo(k)fluoranthene  
Concen: 0.100 ng  
RT: 22.494 min Scan# 2443  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

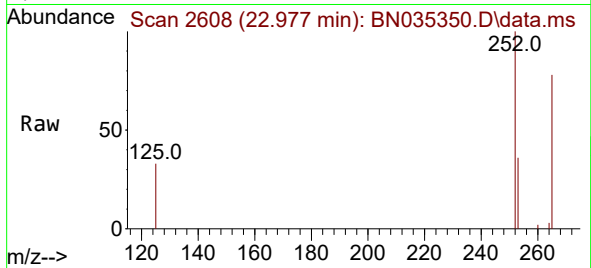
Tgt Ion:252 Resp: 4378  
Ion Ratio Lower Upper  
252 100  
253 32.2 19.5 29.3#  
125 23.7 10.2 15.4#



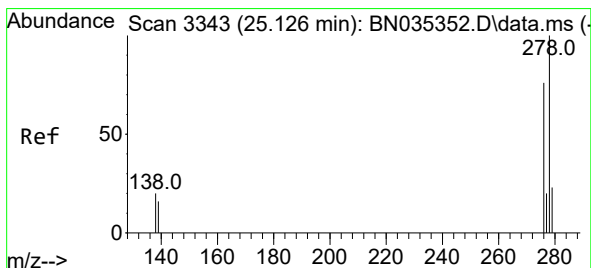
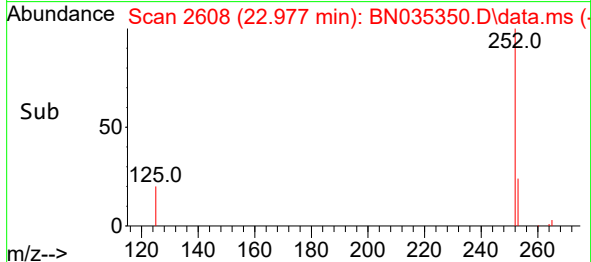
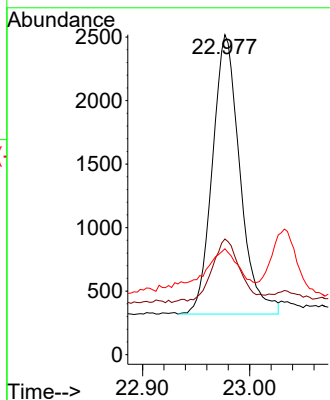


#39  
Benzo(a)pyrene  
Concen: 0.102 ng  
RT: 22.977 min Scan# 2608  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

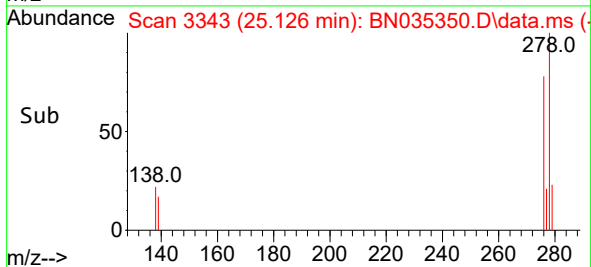
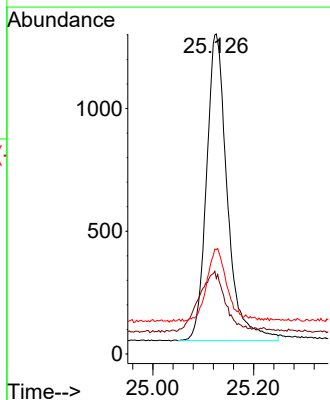
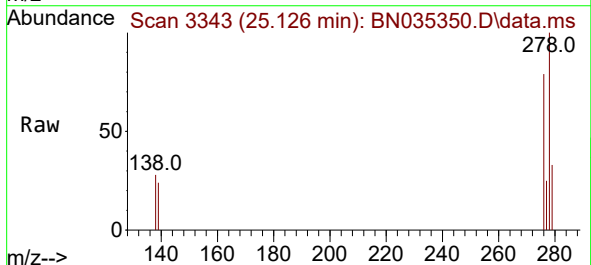


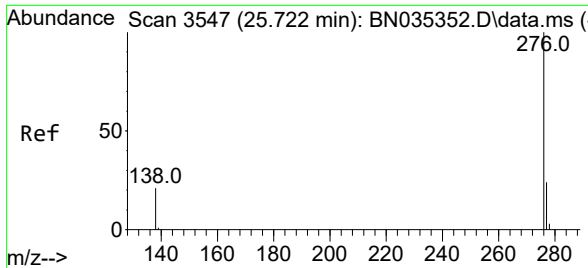
Tgt Ion:252 Resp: 3913  
Ion Ratio Lower Upper  
252 100  
253 36.1 20.2 30.4#  
125 33.1 10.9 16.3#



#40  
Dibenzo(a,h)anthracene  
Concen: 0.087 ng  
RT: 25.126 min Scan# 3343  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

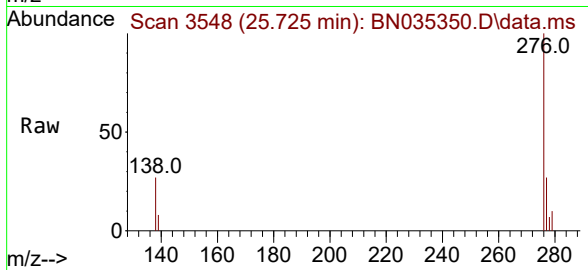
Tgt Ion:278 Resp: 3588  
Ion Ratio Lower Upper  
278 100  
139 23.6 14.2 21.4#  
279 32.6 20.5 30.7#



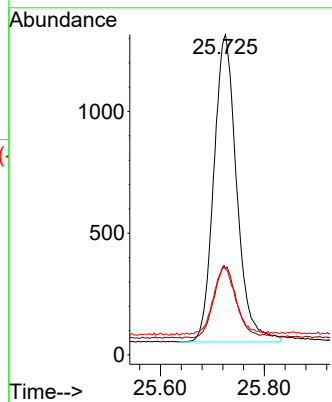
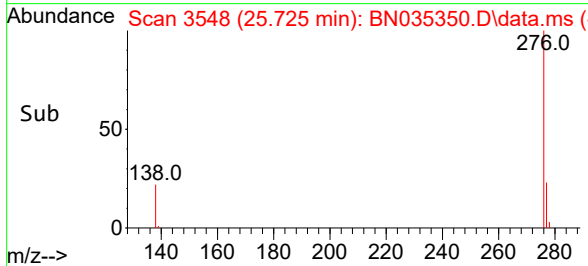


#41  
Benzo(g,h,i)perylene  
Concen: 0.088 ng  
RT: 25.725 min Scan# 31  
Delta R.T. 0.003 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1



Tgt Ion:276 Resp: 3863  
Ion Ratio Lower Upper  
276 100  
277 26.9 19.9 29.9  
138 26.8 17.8 26.8#





Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112724\  
 Data File : BN035351.D  
 Acq On : 27 Nov 2024 16:10  
 Operator : RC/JU  
 Sample : SSTDICC0.2  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC0.2

Quant Time: Nov 27 22:52:33 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Nov 27 22:48:24 2024  
 Response via : Initial Calibration

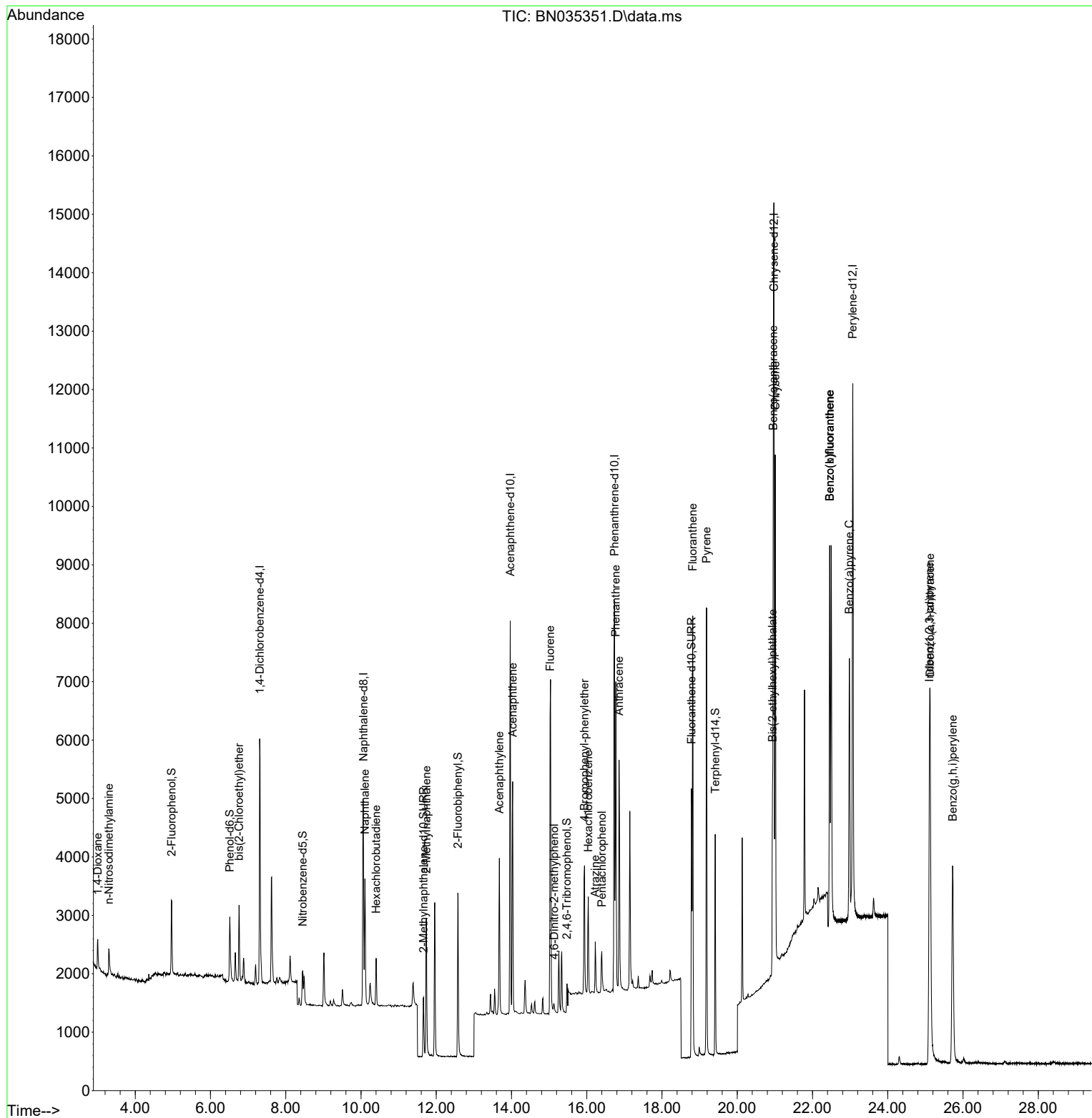
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.308  | 152  | 2084     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.063 | 136  | 5334     | 0.400 | ng    | # 0.01   |
| 13) Acenaphthene-d10          | 13.967 | 164  | 3808     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 16.735 | 188  | 9904     | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 20.974 | 240  | 9963     | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.070 | 264  | 11158    | 0.400 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 4.968  | 112  | 1159     | 0.219 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.513  | 99   | 1236     | 0.186 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.450  | 82   | 806      | 0.174 | ng    | 0.01     |
| 11) 2-Methylnaphthalene-d10   | 11.661 | 152  | 1608     | 0.169 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.475 | 330  | 492      | 0.179 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.574 | 172  | 2838     | 0.184 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 18.784 | 212  | 5379     | 0.177 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.416 | 244  | 3871     | 0.185 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
|                               |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.003  | 88   | 435      | 0.230 | ng    | # 95     |
| 3) n-Nitrosodimethylamine     | 3.299  | 42   | 315      | 0.179 | ng    | # 87     |
| 6) bis(2-Chloroethyl)ether    | 6.759  | 93   | 1064     | 0.214 | ng    | 99       |
| 9) Naphthalene                | 10.105 | 128  | 2744     | 0.197 | ng    | 96       |
| 10) Hexachlorobutadiene       | 10.404 | 225  | 646      | 0.158 | ng    | # 99     |
| 12) 2-Methylnaphthalene       | 11.737 | 142  | 1910     | 0.186 | ng    | 98       |
| 16) Acenaphthylene            | 13.678 | 152  | 3047     | 0.187 | ng    | 99       |
| 17) Acenaphthene              | 14.031 | 154  | 2064     | 0.194 | ng    | 99       |
| 18) Fluorene                  | 15.026 | 166  | 2949     | 0.188 | ng    | 99       |
| 20) 4,6-Dinitro-2-methylph... | 15.132 | 198  | 153      | 0.074 | ng    | # 53     |
| 21) 4-Bromophenyl-phenylether | 15.941 | 248  | 1081     | 0.171 | ng    | 96       |
| 22) Hexachlorobenzene         | 16.040 | 284  | 1318     | 0.201 | ng    | 98       |
| 23) Atrazine                  | 16.227 | 200  | 770      | 0.136 | ng    | 93       |
| 24) Pentachlorophenol         | 16.400 | 266  | 445      | 0.145 | ng    | # 84     |
| 25) Phenanthrene              | 16.773 | 178  | 5182     | 0.199 | ng    | 99       |
| 26) Anthracene                | 16.860 | 178  | 4571     | 0.191 | ng    | 100      |
| 28) Fluoranthene              | 18.817 | 202  | 6914     | 0.193 | ng    | 100      |
| 30) Pyrene                    | 19.184 | 202  | 7198     | 0.217 | ng    | 100      |
| 32) Benzo(a)anthracene        | 20.956 | 228  | 6691     | 0.193 | ng    | 99       |
| 33) Chrysene                  | 21.009 | 228  | 7234     | 0.211 | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 20.938 | 149  | 2779     | 0.153 | ng    | # 99     |
| 36) Indeno(1,2,3-cd)pyrene    | 25.108 | 276  | 8305     | 0.187 | ng    | 100      |
| 37) Benzo(b)fluoranthene      | 22.456 | 252  | 7522     | 0.200 | ng    | # 94     |
| 38) Benzo(k)fluoranthene      | 22.456 | 252  | 7522     | 0.200 | ng    | 94       |
| 39) Benzo(a)pyrene            | 22.980 | 252  | 6450     | 0.195 | ng    | # 90     |
| 40) Dibenzo(a,h)anthracene    | 25.128 | 278  | 6620     | 0.188 | ng    | 96       |
| 41) Benzo(g,h,i)perylene      | 25.725 | 276  | 6908     | 0.184 | ng    | 99       |
| -----                         |        |      |          |       |       |          |

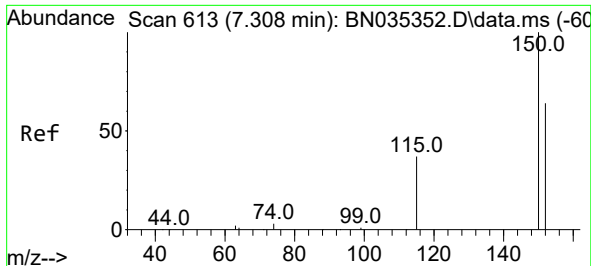
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112724\  
Data File : BN035351.D  
Acq On : 27 Nov 2024 16:10  
Operator : RC/JU  
Sample : SSTDICC0.2  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

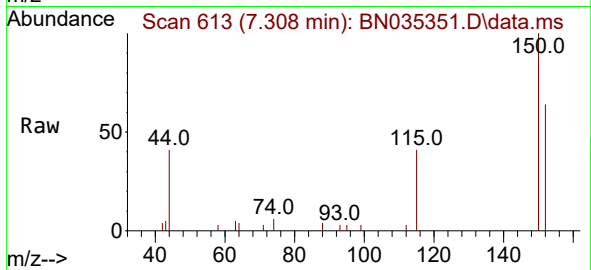
Quant Time: Nov 27 22:52:33 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Nov 27 22:48:24 2024  
Response via : Initial Calibration





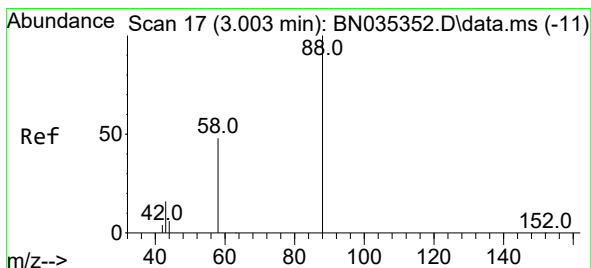
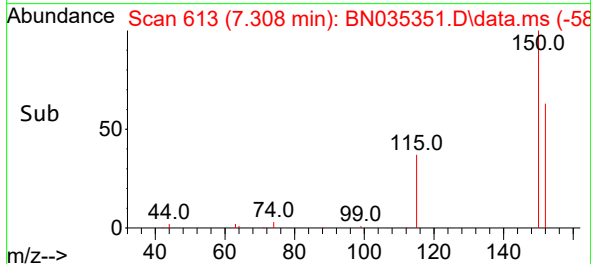
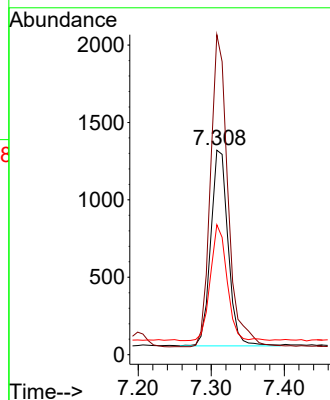
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 0.400 ng  
 RT: 7.308 min Scan# 61  
 Delta R.T. -0.000 min  
 Lab File: BN035351.D  
 Acq: 27 Nov 2024 16:10

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC0.2



Tgt Ion:152 Resp: 2084

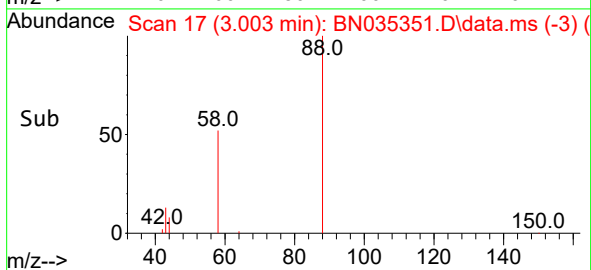
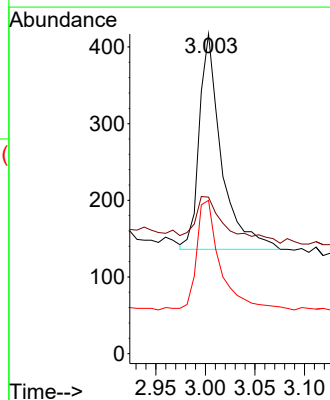
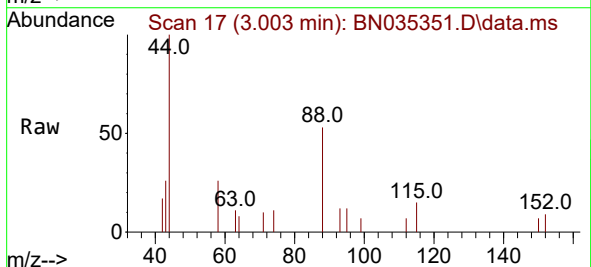
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 152 | 100   |       |       |
| 150 | 156.5 | 124.0 | 186.0 |
| 115 | 63.5  | 49.6  | 74.4  |

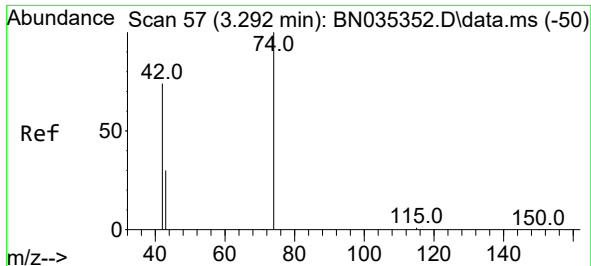


#2  
 1,4-Dioxane  
 Concen: 0.230 ng  
 RT: 3.003 min Scan# 17  
 Delta R.T. -0.000 min  
 Lab File: BN035351.D  
 Acq: 27 Nov 2024 16:10

Tgt Ion: 88 Resp: 435

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 88  | 100   |       |       |
| 43  | 29.9  | 17.2  | 25.8  |
| 58  | 55.2  | 44.5  | 66.7  |

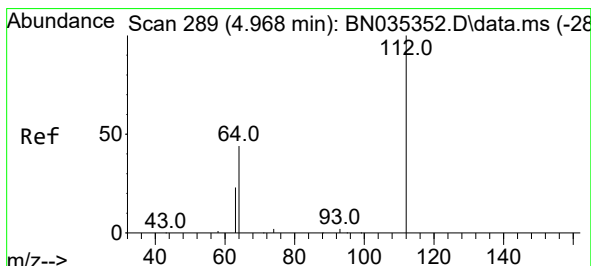
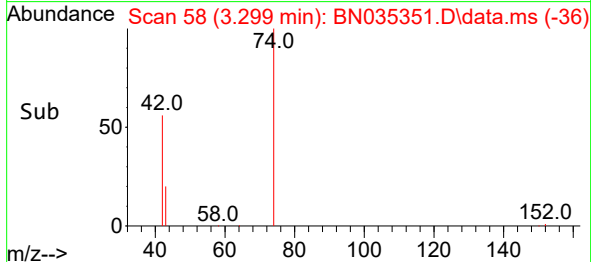
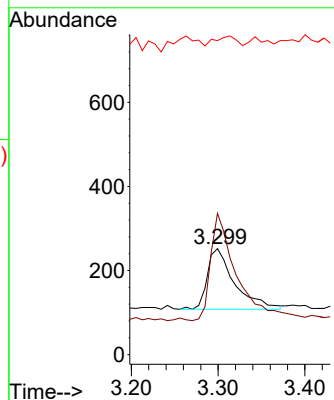
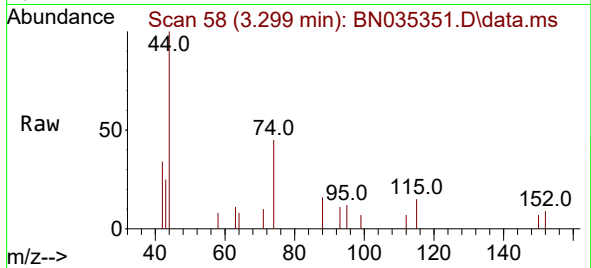




#3  
n-Nitrosodimethylamine  
Concen: 0.179 ng  
RT: 3.299 min Scan# 51  
Delta R.T. 0.007 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

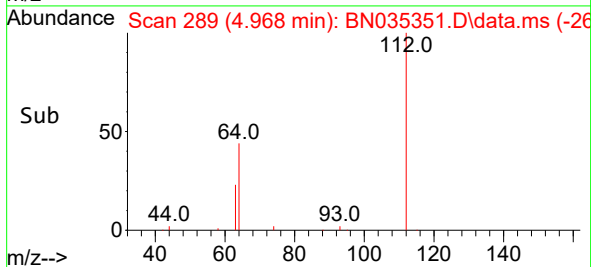
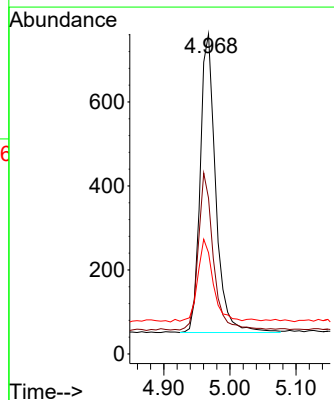
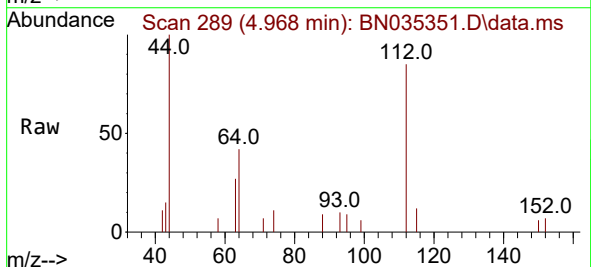
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

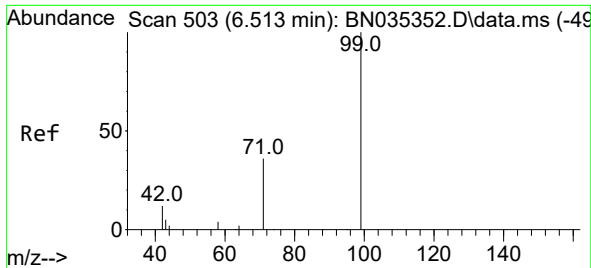
Tgt Ion: 42 Resp: 315  
Ion Ratio Lower Upper  
42 100  
74 172.4 124.9 187.3  
44 16.2 2.2 3.4#



#4  
2-Fluorophenol  
Concen: 0.219 ng  
RT: 4.968 min Scan# 289  
Delta R.T. -0.000 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

Tgt Ion: 112 Resp: 1159  
Ion Ratio Lower Upper  
112 100  
64 51.2 39.8 59.8  
63 27.9 21.0 31.6

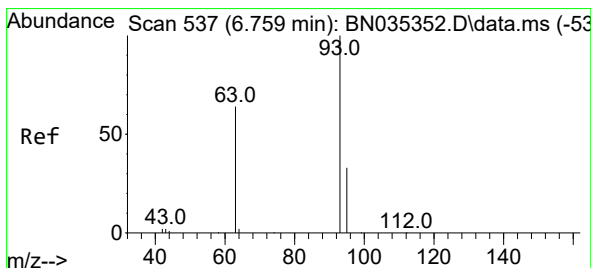
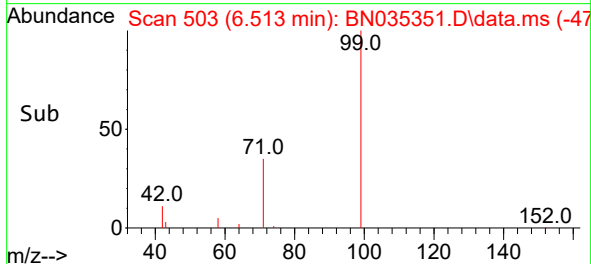
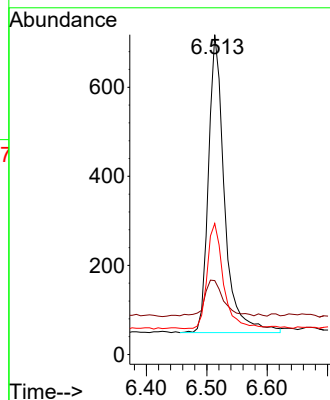
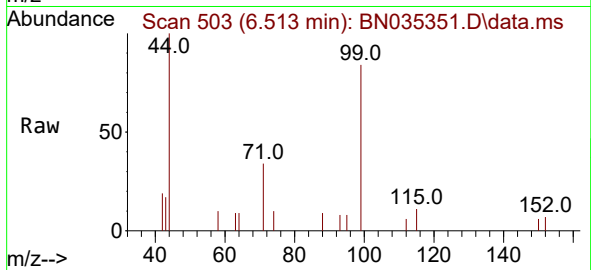




#5  
Phenol-d6  
Concen: 0.186 ng  
RT: 6.513 min Scan# 503  
Delta R.T. -0.000 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

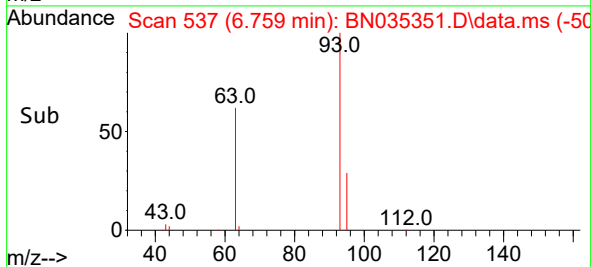
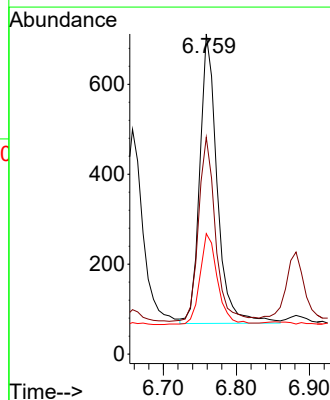
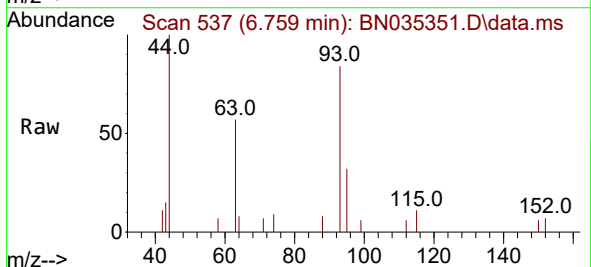
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

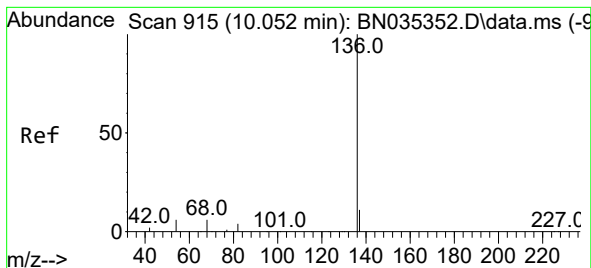
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 99    | Resp: | 1236  |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 15.0  | 11.4  | 17.2  |
| 71       | 35.8  | 29.3  | 43.9  |



#6  
bis(2-Chloroethyl)ether  
Concen: 0.214 ng  
RT: 6.759 min Scan# 537  
Delta R.T. -0.000 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 93    | Resp: | 1064  |
| Ion      | Ratio | Lower | Upper |
| 93       | 100   |       |       |
| 63       | 62.2  | 50.4  | 75.6  |
| 95       | 31.6  | 25.7  | 38.5  |





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.063 min Scan# 91

Delta R.T. 0.011 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2

Tgt Ion:136 Resp: 5334

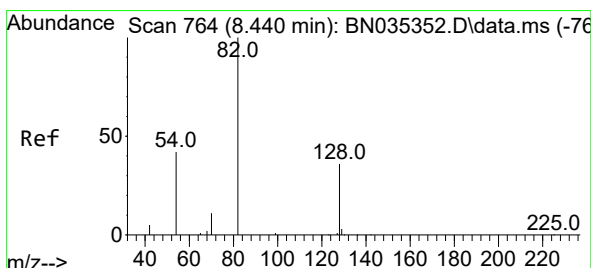
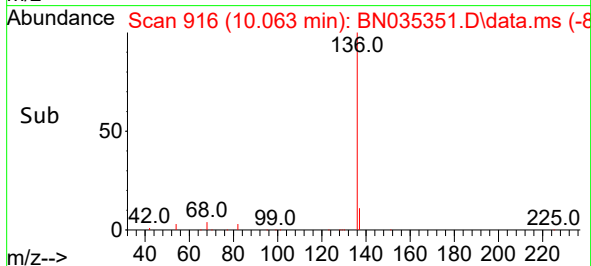
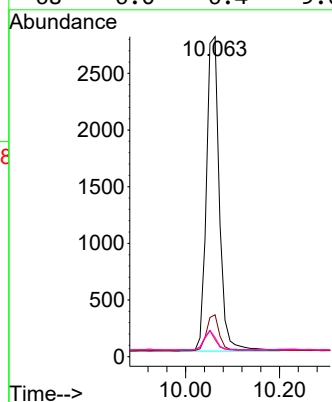
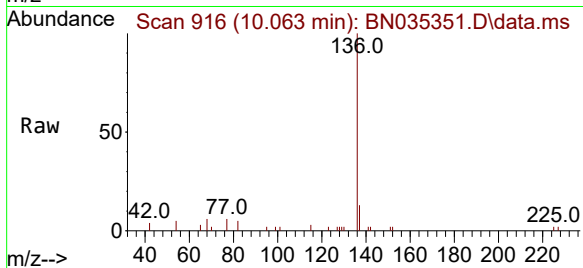
Ion Ratio Lower Upper

136 100

137 13.1 10.2 15.2

54 5.3 6.1 9.1#

68 6.0 6.4 9.6#



#8

Nitrobenzene-d5

Concen: 0.174 ng

RT: 8.450 min Scan# 765

Delta R.T. 0.011 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

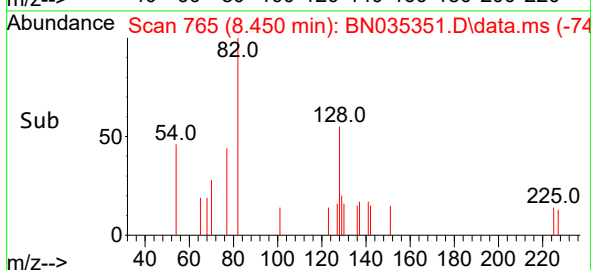
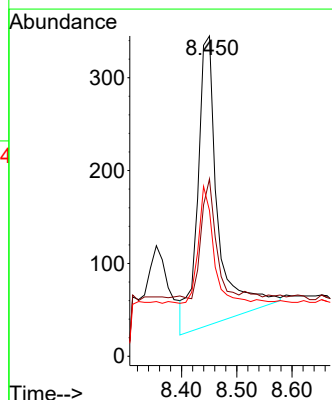
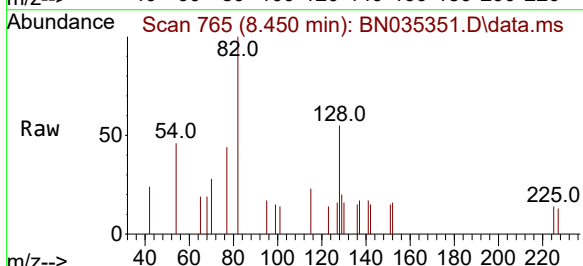
Tgt Ion: 82 Resp: 806

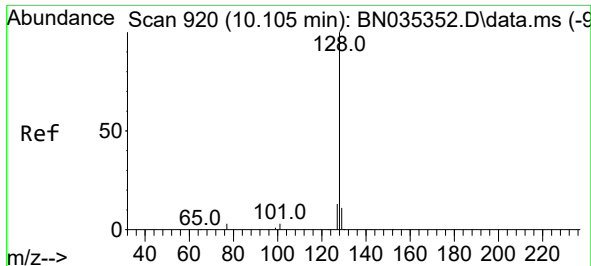
Ion Ratio Lower Upper

82 100

128 55.4 33.4 50.0#

54 45.5 36.7 55.1

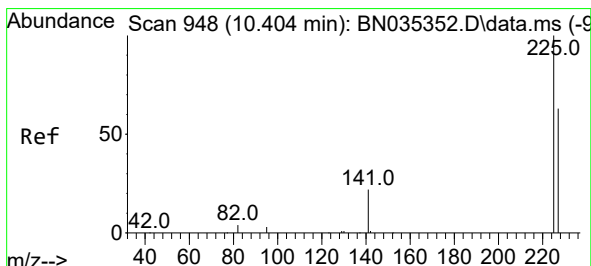
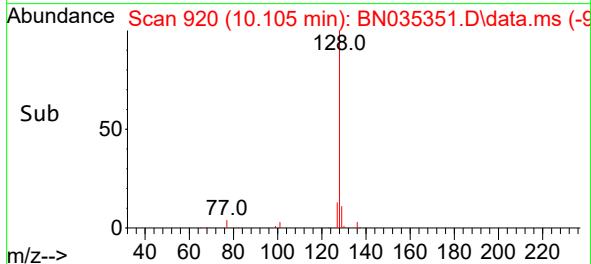
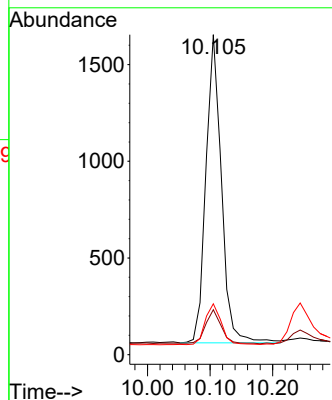
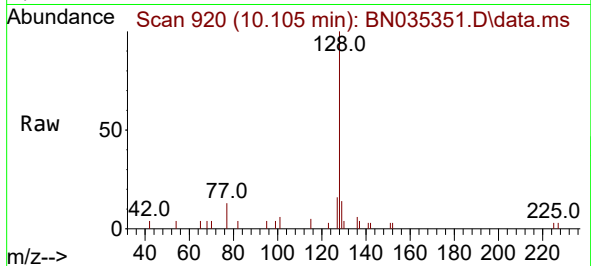




#9  
Naphthalene  
Concen: 0.197 ng  
RT: 10.105 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

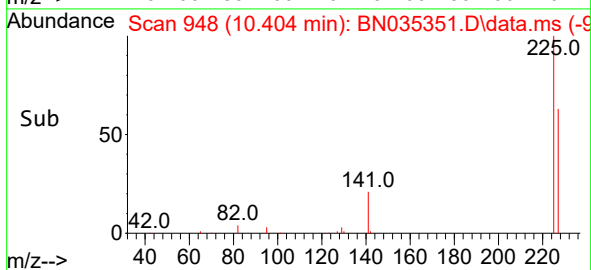
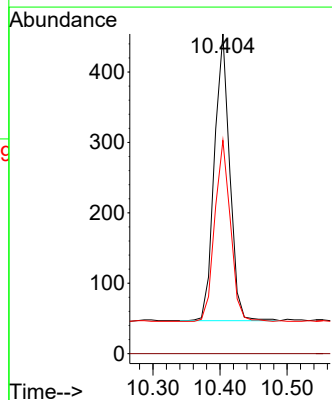
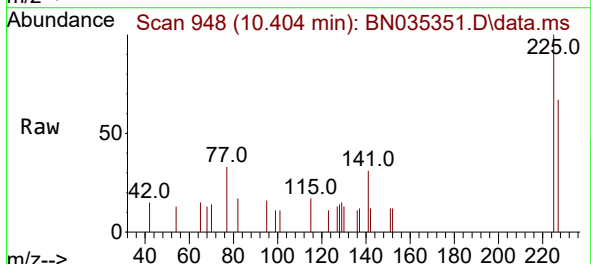
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

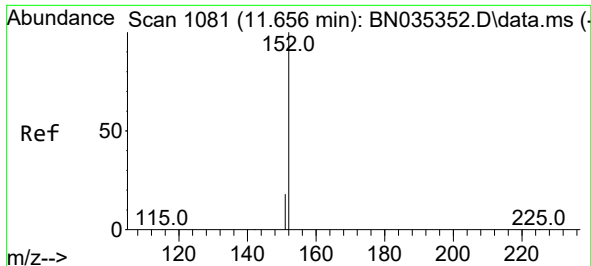
Tgt Ion:128 Resp: 2744  
Ion Ratio Lower Upper  
128 100  
129 14.0 9.8 14.6  
127 15.9 11.4 17.2



#10  
Hexachlorobutadiene  
Concen: 0.158 ng  
RT: 10.404 min Scan# 948  
Delta R.T. -0.000 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

Tgt Ion:225 Resp: 646  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 64.7 51.3 76.9





#11

2-Methylnaphthalene-d10

Concen: 0.169 ng

RT: 11.661 min Scan# 1082

Delta R.T. 0.005 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

Instrument :

BNA\_N

ClientSampleId :

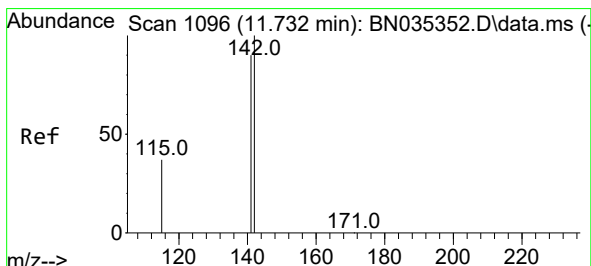
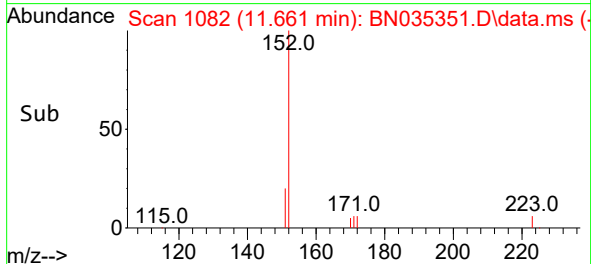
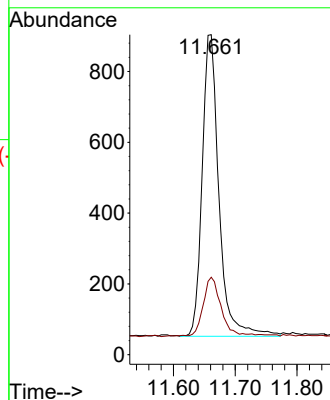
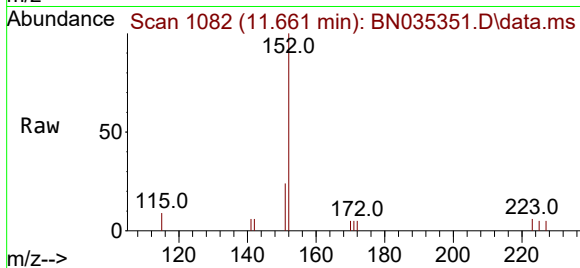
SSTDICC0.2

Tgt Ion:152 Resp: 1608

Ion Ratio Lower Upper

152 100

151 22.3 16.6 25.0



#12

2-Methylnaphthalene

Concen: 0.186 ng

RT: 11.737 min Scan# 1097

Delta R.T. 0.005 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

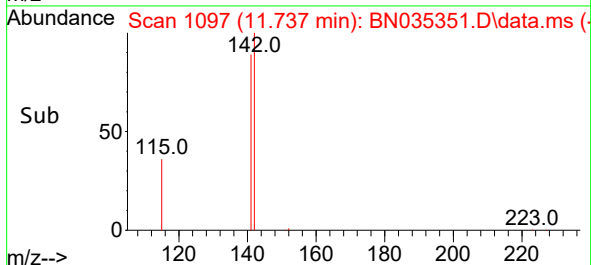
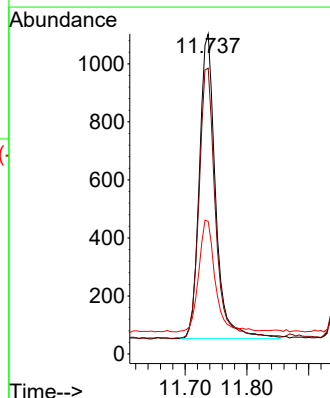
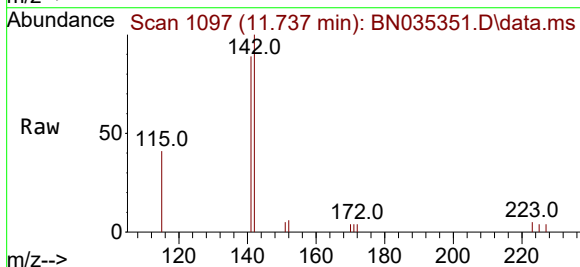
Tgt Ion:142 Resp: 1910

Ion Ratio Lower Upper

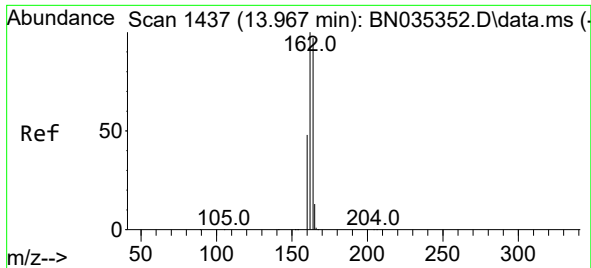
142 100

141 89.3 72.2 108.4

115 41.4 31.4 47.0



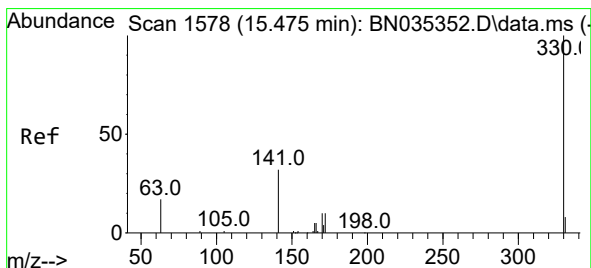
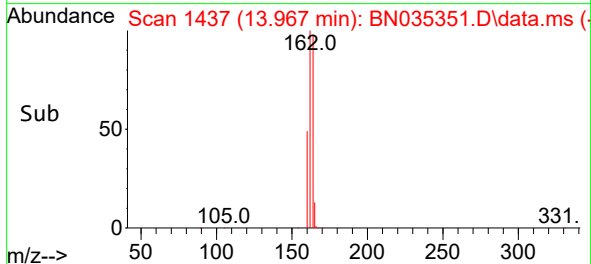
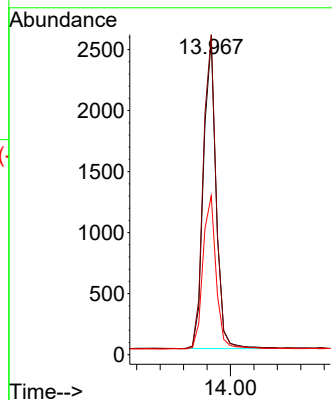
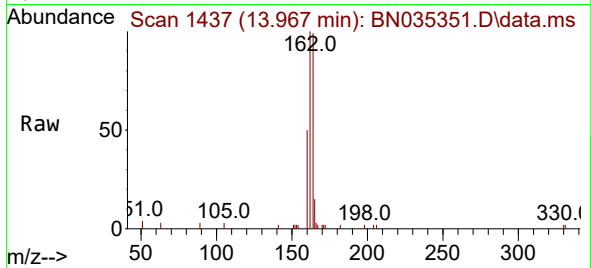




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.967 min Scan# 1437  
Delta R.T. -0.000 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

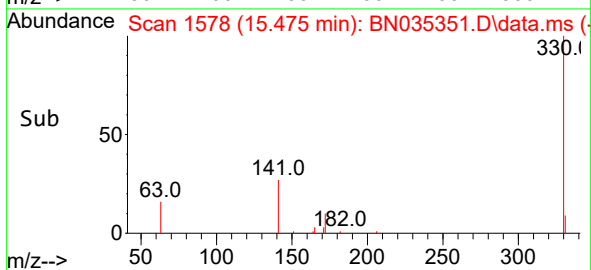
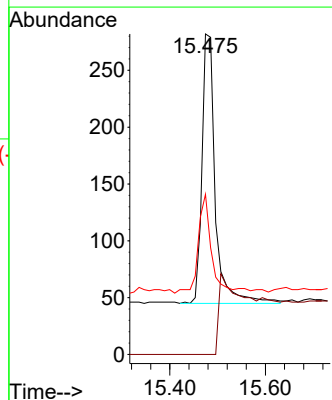
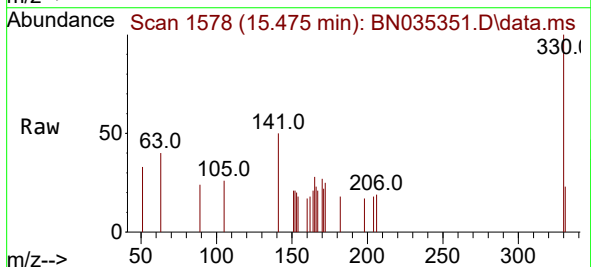
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

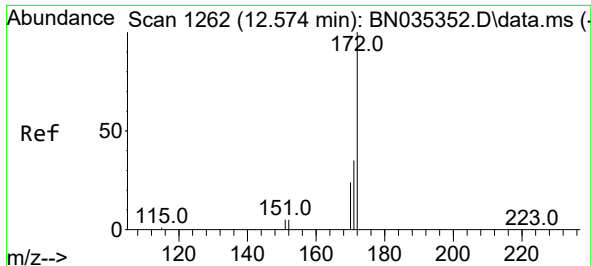
Tgt Ion:164 Resp: 3808  
Ion Ratio Lower Upper  
164 100  
162 101.5 82.2 123.2  
160 50.4 40.1 60.1



#14  
2,4,6-Tribromophenol  
Concen: 0.179 ng  
RT: 15.475 min Scan# 1578  
Delta R.T. -0.000 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

Tgt Ion:330 Resp: 492  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 37.2 26.6 40.0

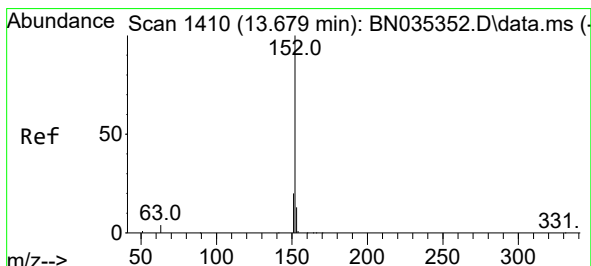
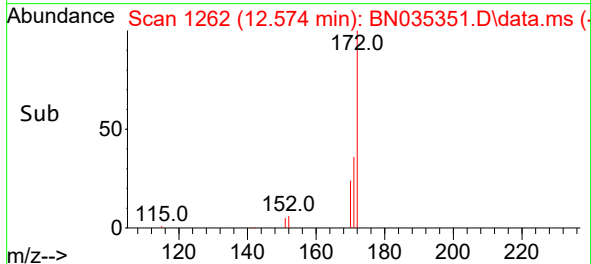
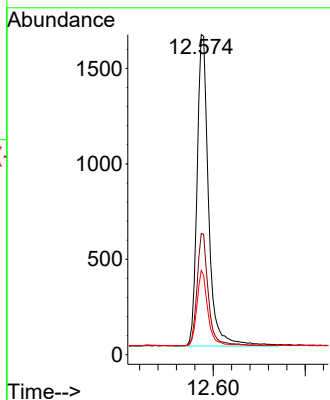
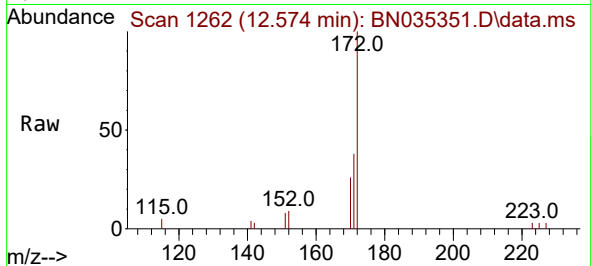




#15  
2-Fluorobiphenyl  
Concen: 0.184 ng  
RT: 12.574 min Scan# 1262  
Delta R.T. -0.000 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

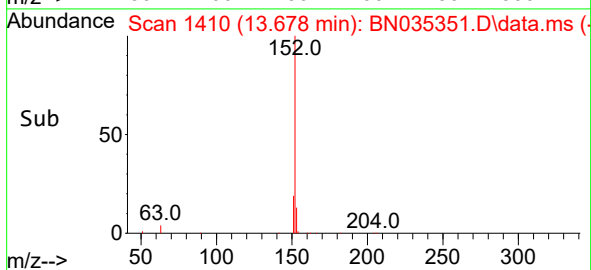
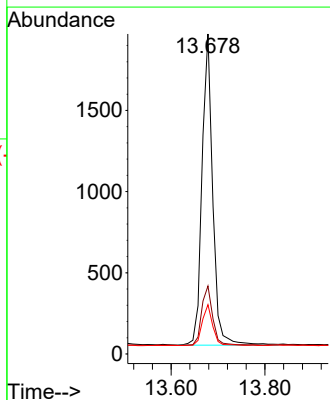
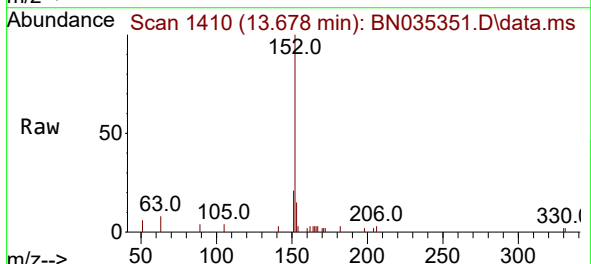
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

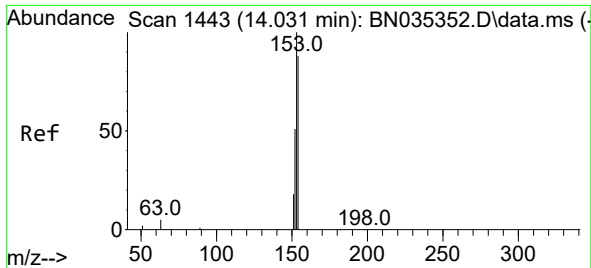
Tgt Ion:172 Resp: 2838  
Ion Ratio Lower Upper  
172 100  
171 37.9 29.0 43.4  
170 26.3 19.8 29.8



#16  
Acenaphthylene  
Concen: 0.187 ng  
RT: 13.678 min Scan# 1410  
Delta R.T. -0.000 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

Tgt Ion:152 Resp: 3047  
Ion Ratio Lower Upper  
152 100  
151 19.8 16.2 24.2  
153 12.9 10.4 15.6

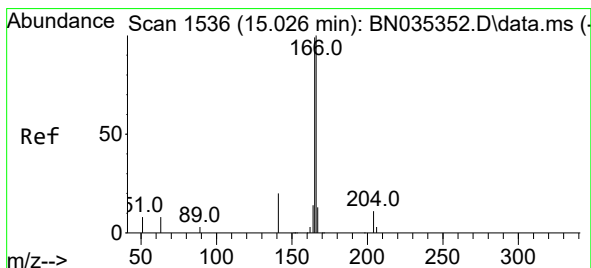
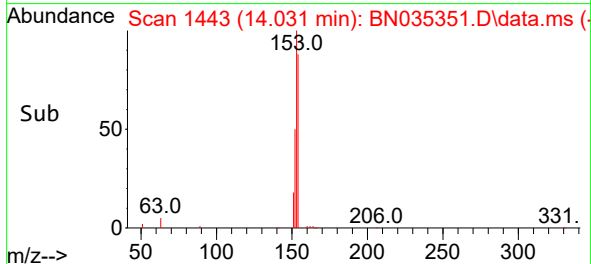
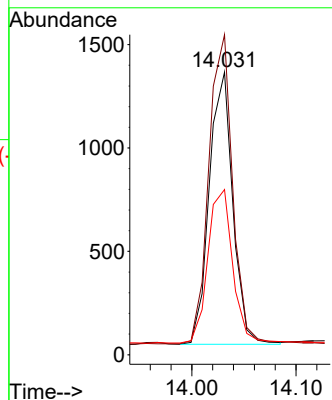
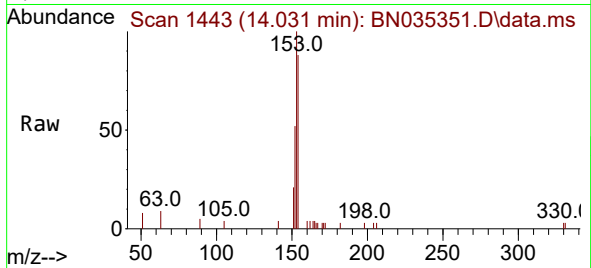




#17  
Acenaphthene  
Concen: 0.194 ng  
RT: 14.031 min Scan# 1443  
Delta R.T. -0.000 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

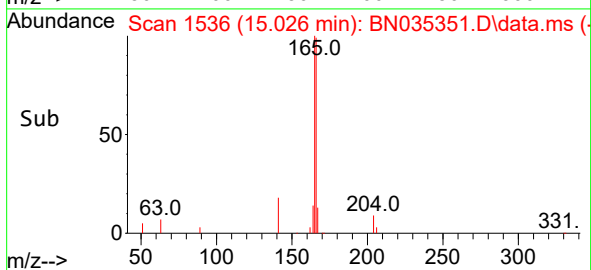
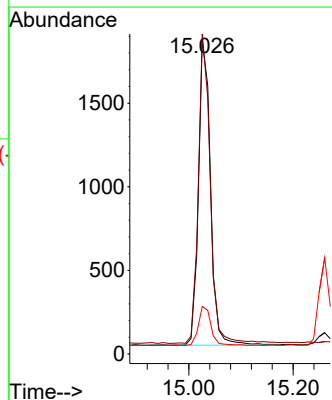
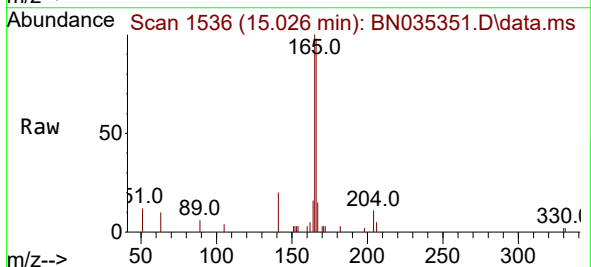
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

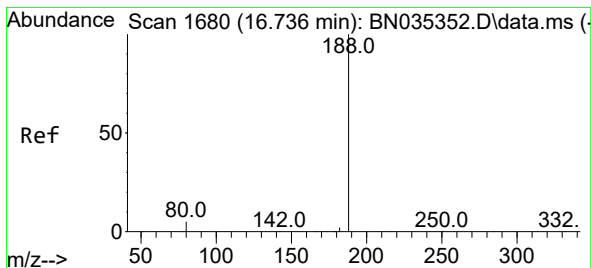
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 154   | Resp: | 2064  |
| Ion      | Ratio | Lower | Upper |
| 154      | 100   |       |       |
| 153      | 115.2 | 92.6  | 139.0 |
| 152      | 60.7  | 49.0  | 73.6  |



#18  
Fluorene  
Concen: 0.188 ng  
RT: 15.026 min Scan# 1536  
Delta R.T. -0.000 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 166   | Resp: | 2949  |
| Ion      | Ratio | Lower | Upper |
| 166      | 100   |       |       |
| 165      | 99.1  | 79.7  | 119.5 |
| 167      | 14.1  | 10.8  | 16.2  |





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.735 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2

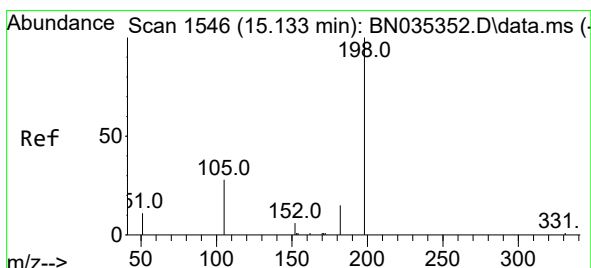
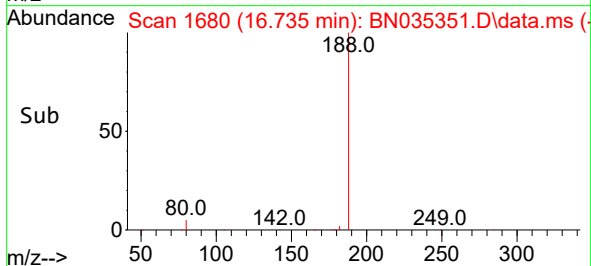
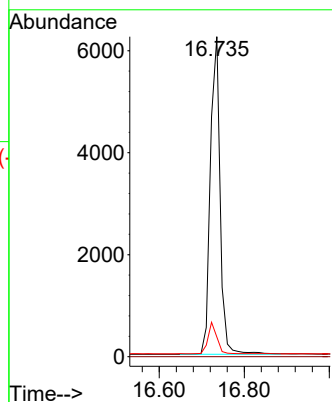
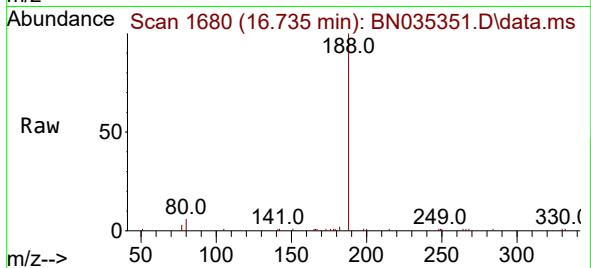
Tgt Ion:188 Resp: 9904

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 6.2 4.6 6.8



#20

4,6-Dinitro-2-methylphenol

Concen: 0.074 ng

RT: 15.132 min Scan# 1546

Delta R.T. -0.000 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

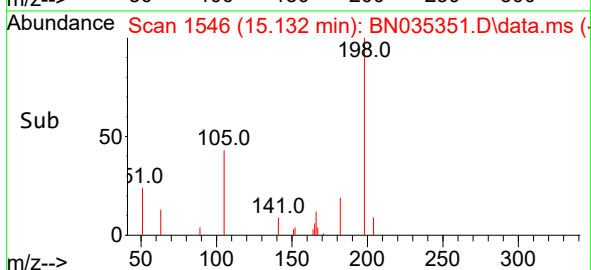
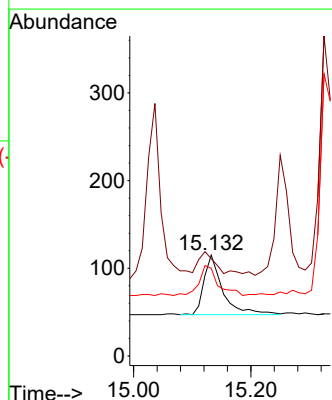
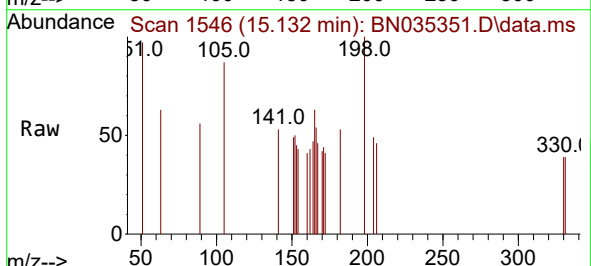
Tgt Ion:198 Resp: 153

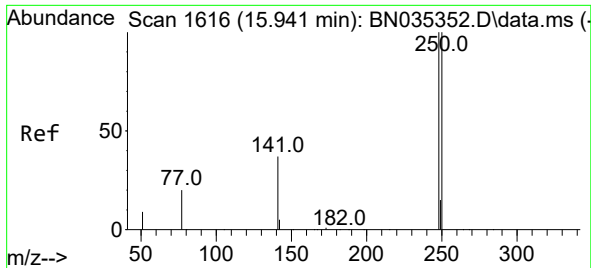
Ion Ratio Lower Upper

198 100

51 96.5 46.5 69.7#

105 87.0 45.3 67.9#

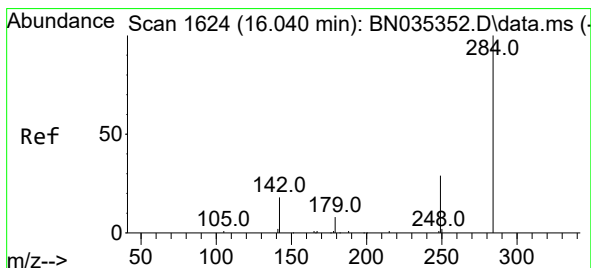
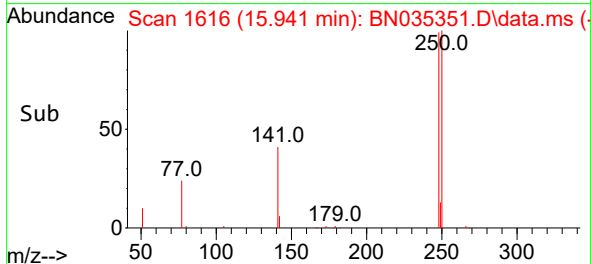
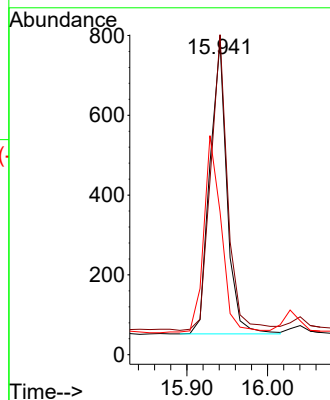
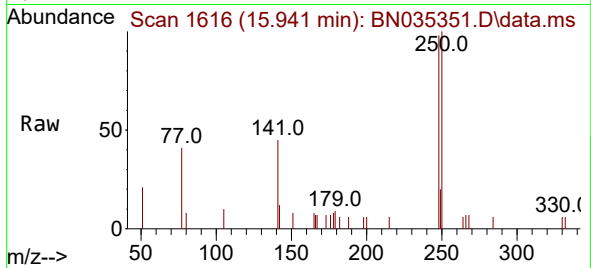




#21  
4-Bromophenyl-phenylether  
Concen: 0.171 ng  
RT: 15.941 min Scan# 1616  
Delta R.T. -0.000 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

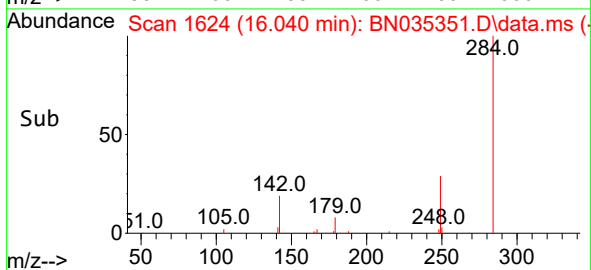
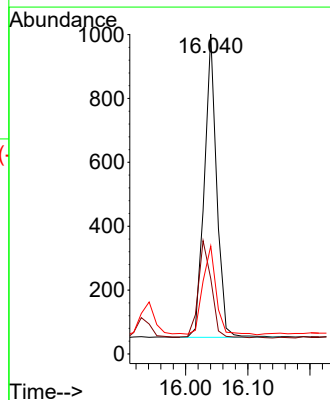
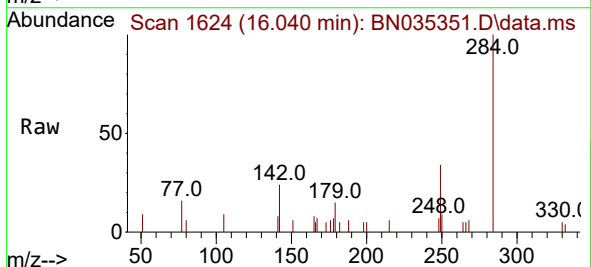
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

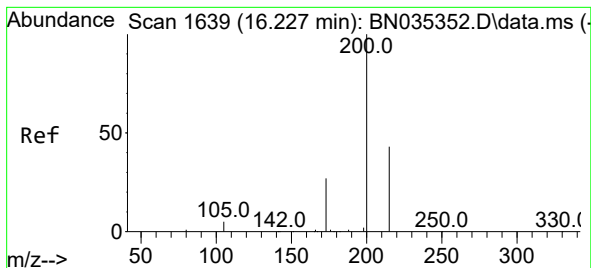
Tgt Ion:248 Resp: 1081  
Ion Ratio Lower Upper  
248 100  
250 102.3 80.6 120.8  
141 45.7 31.5 47.3



#22  
Hexachlorobenzene  
Concen: 0.201 ng  
RT: 16.040 min Scan# 1624  
Delta R.T. -0.000 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

Tgt Ion:284 Resp: 1318  
Ion Ratio Lower Upper  
284 100  
142 34.2 26.7 40.1  
249 32.0 24.6 36.8





#23

Atrazine

Concen: 0.136 ng

RT: 16.227 min Scan# 1639

Delta R.T. -0.000 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2

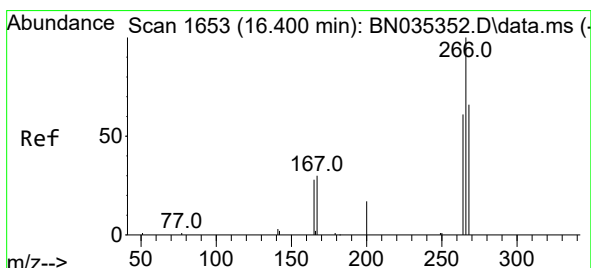
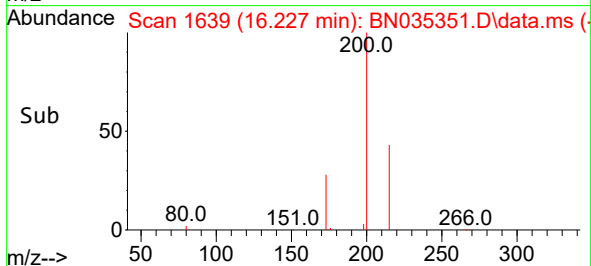
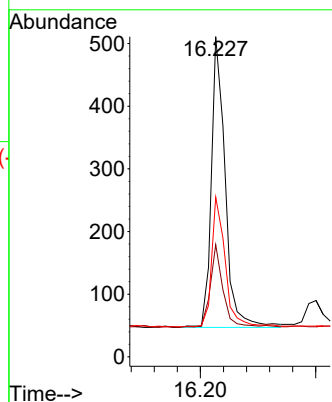
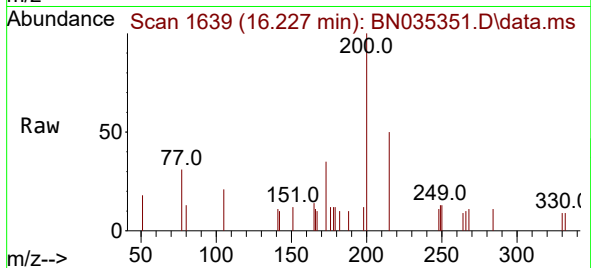
Tgt Ion:200 Resp: 770

Ion Ratio Lower Upper

200 100

173 35.0 24.1 36.1

215 49.9 36.9 55.3



#24

Pentachlorophenol

Concen: 0.145 ng

RT: 16.400 min Scan# 1653

Delta R.T. -0.000 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

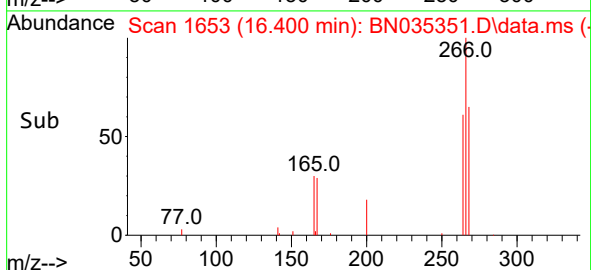
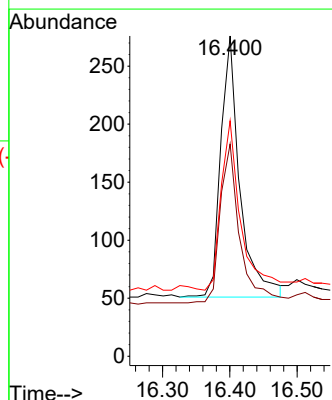
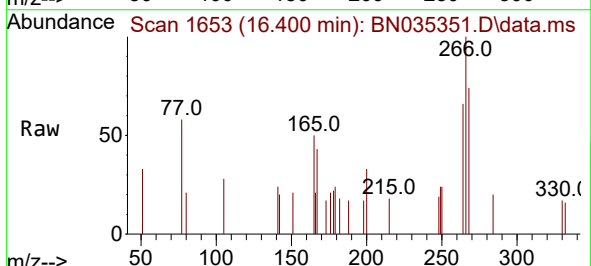
Tgt Ion:266 Resp: 445

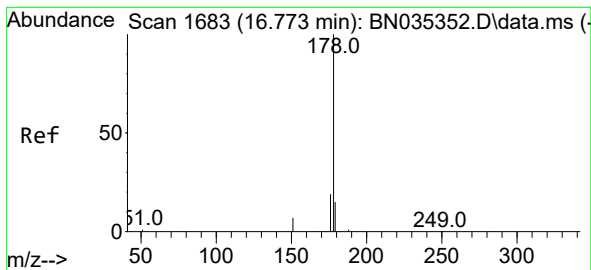
Ion Ratio Lower Upper

266 100

264 62.7 42.3 63.5

268 67.2 43.3 64.9#





#25

Phenanthrene

Concen: 0.199 ng

RT: 16.773 min Scan# 1683

Delta R.T. -0.000 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2

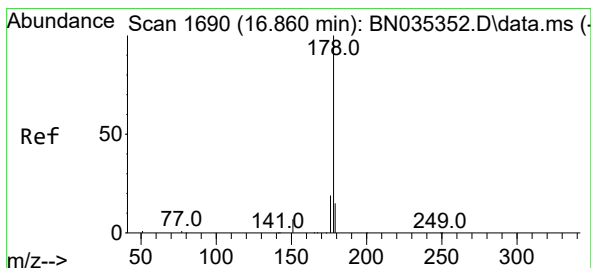
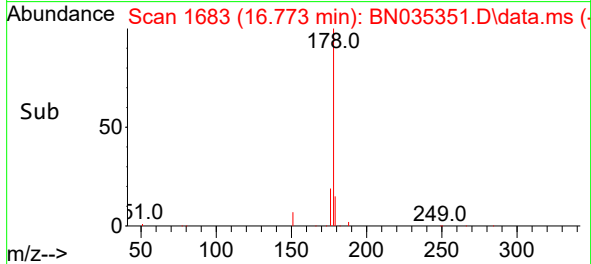
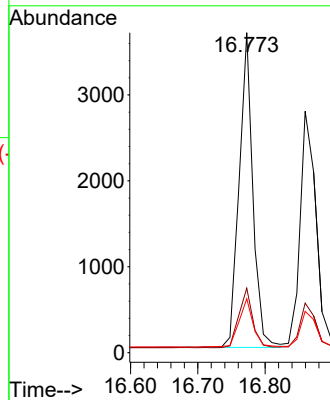
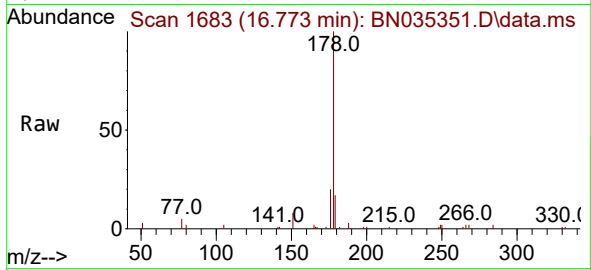
Tgt Ion:178 Resp: 5182

Ion Ratio Lower Upper

178 100

176 18.9 15.4 23.2

179 15.9 12.3 18.5



#26

Anthracene

Concen: 0.191 ng

RT: 16.860 min Scan# 1690

Delta R.T. -0.000 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

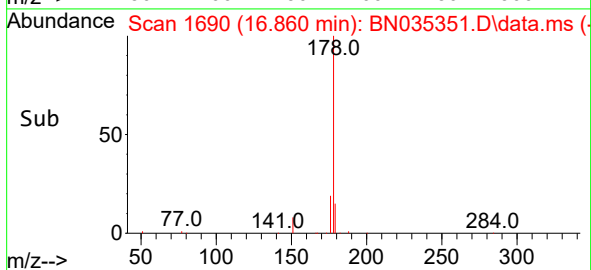
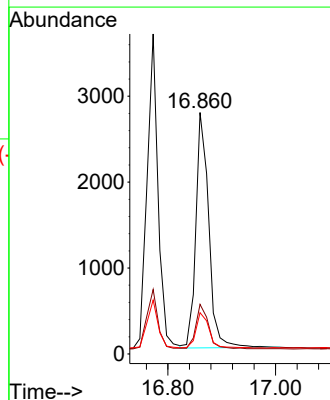
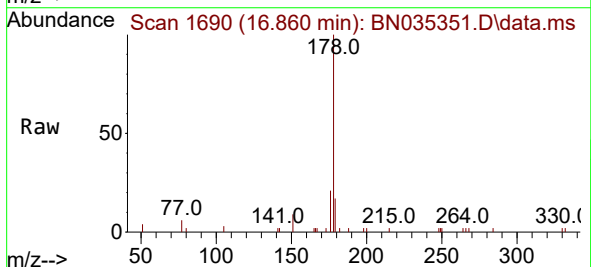
Tgt Ion:178 Resp: 4571

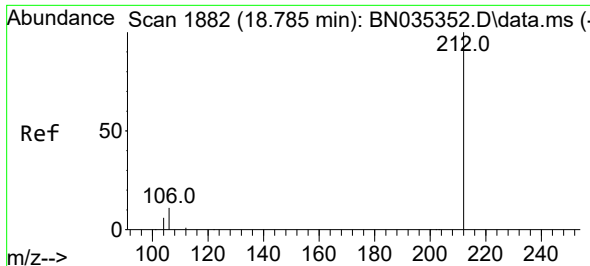
Ion Ratio Lower Upper

178 100

176 18.7 15.0 22.6

179 15.4 12.6 18.8

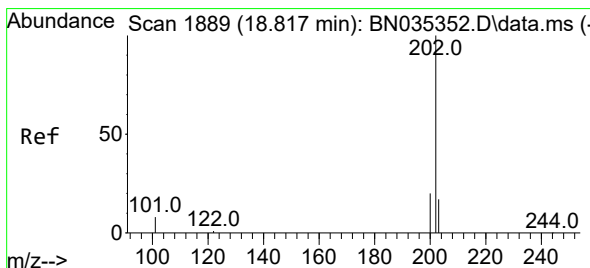
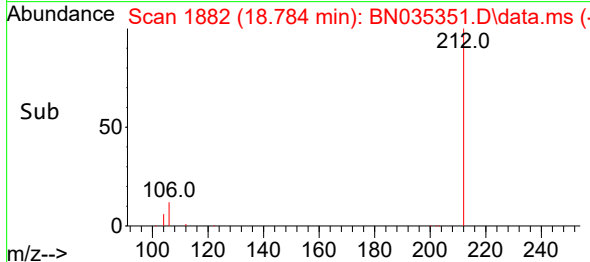
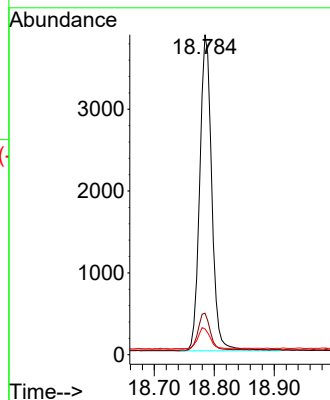
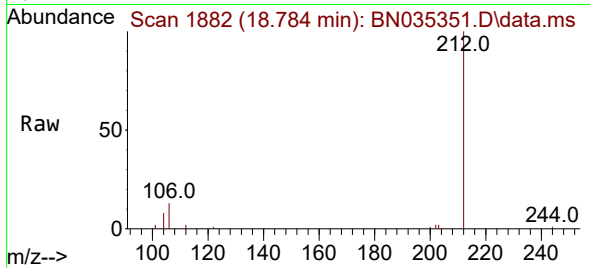




#27  
Fluoranthene-d10  
Concen: 0.177 ng  
RT: 18.784 min Scan# 1882  
Delta R.T. -0.000 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

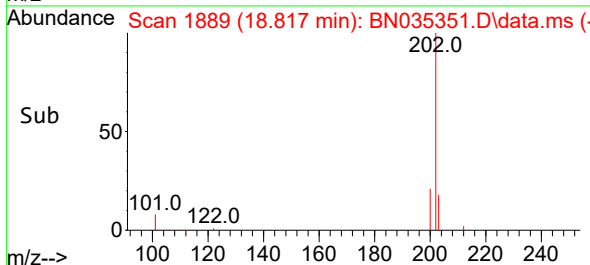
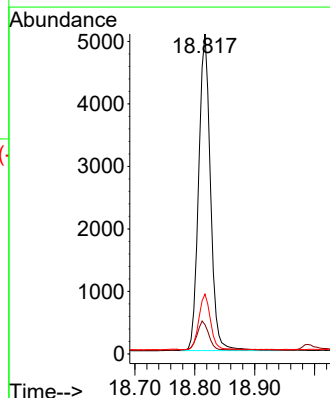
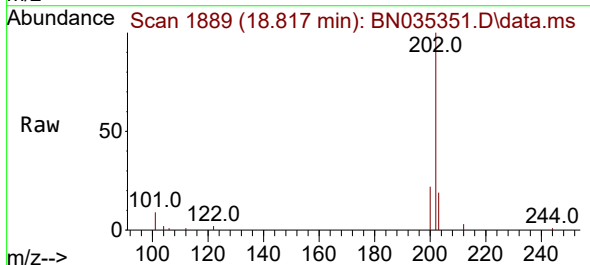
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

Tgt Ion:212 Resp: 5379  
Ion Ratio Lower Upper  
212 100  
106 11.8 9.2 13.8  
104 6.9 5.3 7.9

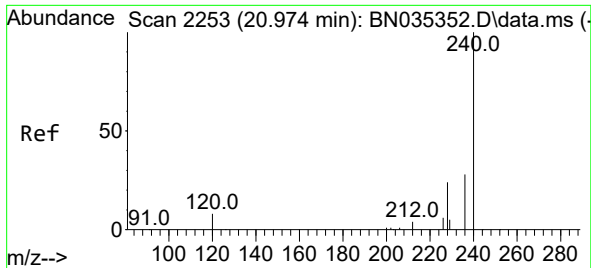


#28  
Fluoranthene  
Concen: 0.193 ng  
RT: 18.817 min Scan# 1889  
Delta R.T. -0.000 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

Tgt Ion:202 Resp: 6914  
Ion Ratio Lower Upper  
202 100  
101 9.3 7.4 11.0  
203 17.3 13.7 20.5



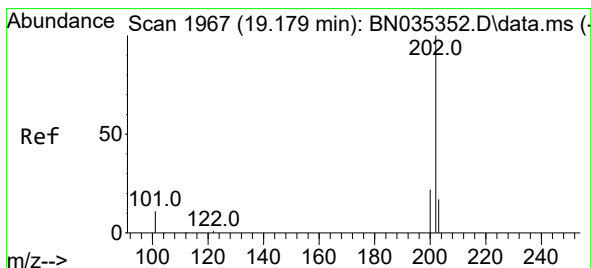
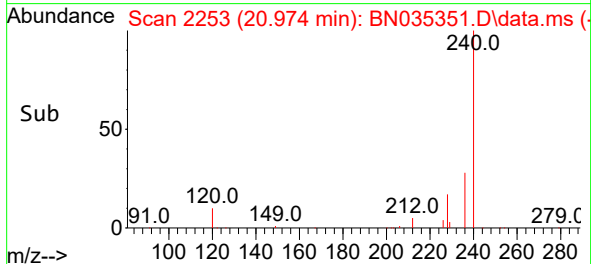
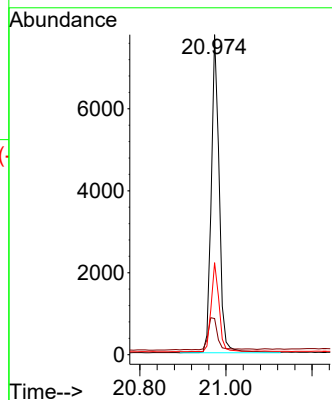
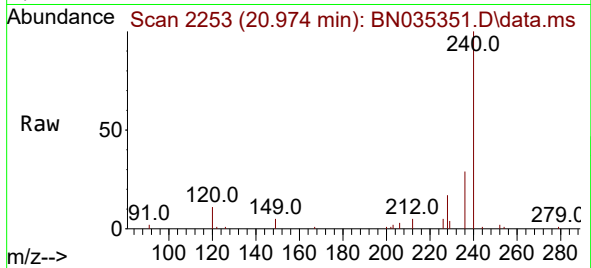




#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 20.974 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

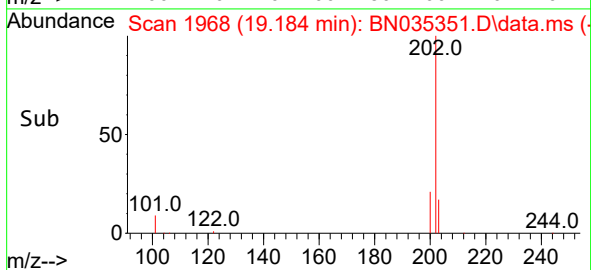
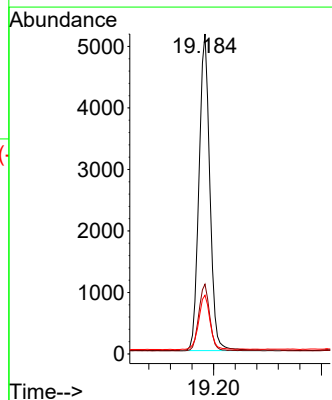
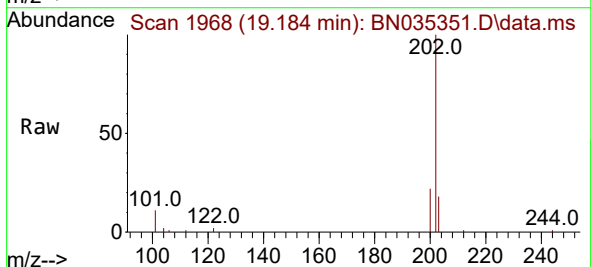
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

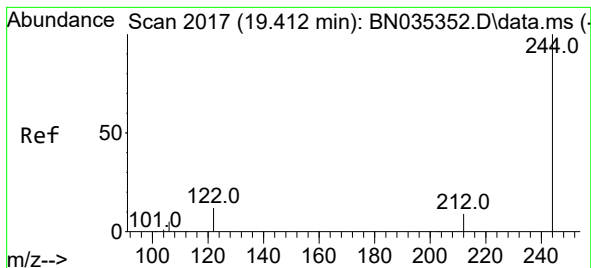
Tgt Ion:240 Resp: 9963  
Ion Ratio Lower Upper  
240 100  
120 11.3 7.9 11.9  
236 28.8 22.9 34.3



#30  
Pyrene  
Concen: 0.217 ng  
RT: 19.184 min Scan# 1968  
Delta R.T. 0.005 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

Tgt Ion:202 Resp: 7198  
Ion Ratio Lower Upper  
202 100  
200 21.3 17.0 25.4  
203 18.0 14.3 21.5





#31

Terphenyl-d14

Concen: 0.185 ng

RT: 19.416 min Scan# 2017

Delta R.T. 0.005 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2

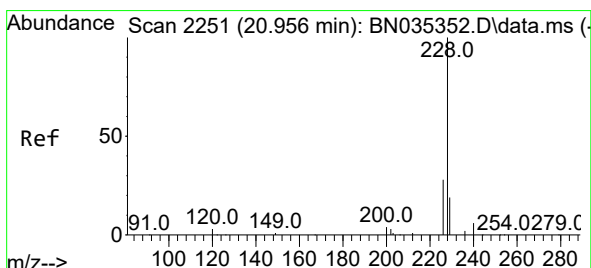
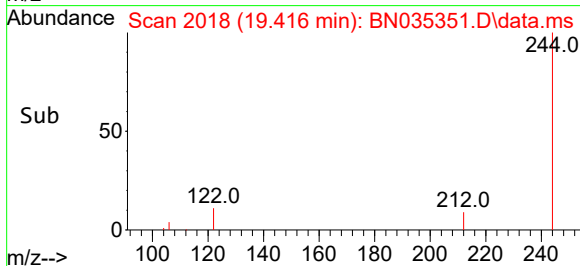
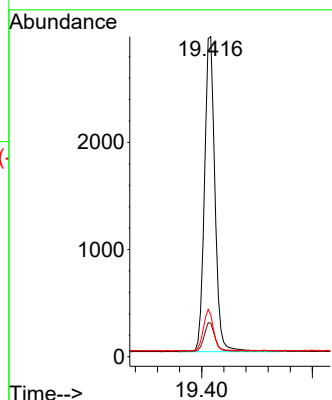
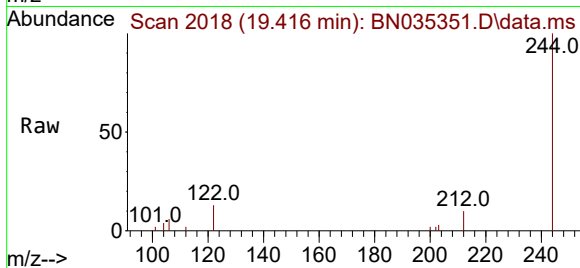
Tgt Ion:244 Resp: 3871

Ion Ratio Lower Upper

244 100

212 10.5 8.1 12.1

122 13.1 10.3 15.5



#32

Benzo(a)anthracene

Concen: 0.193 ng

RT: 20.956 min Scan# 2251

Delta R.T. -0.000 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

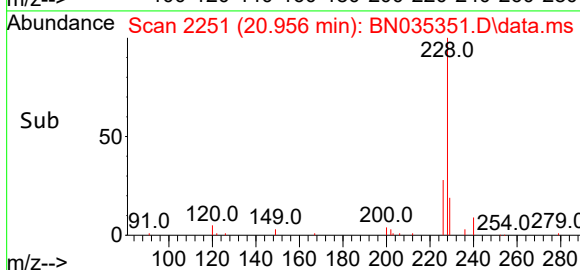
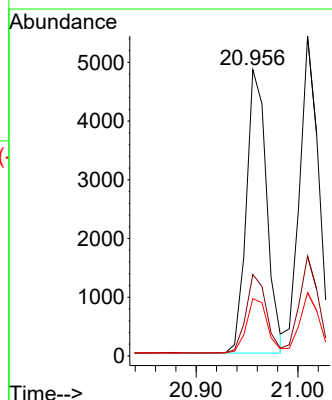
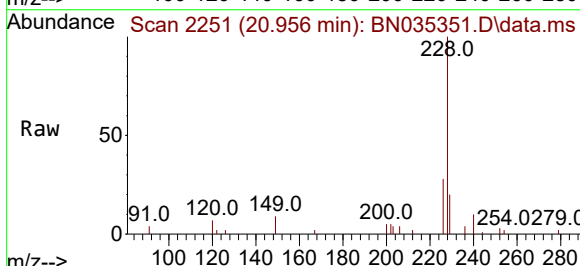
Tgt Ion:228 Resp: 6691

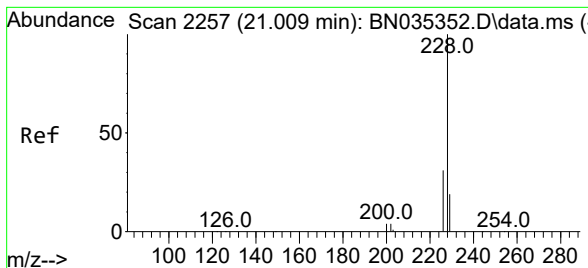
Ion Ratio Lower Upper

228 100

226 28.4 22.5 33.7

229 20.0 15.8 23.8





#33

Chrysene

Concen: 0.211 ng

RT: 21.009 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2

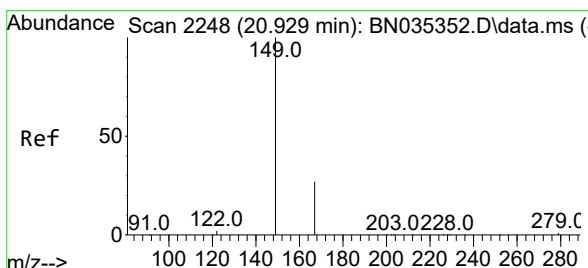
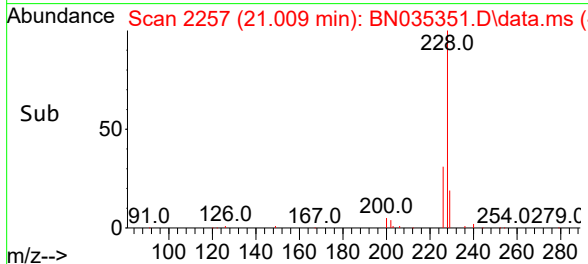
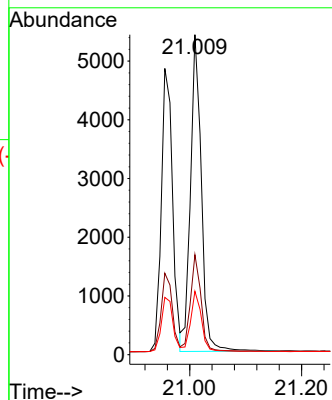
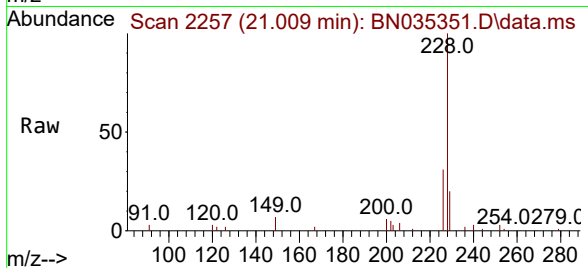
Tgt Ion:228 Resp: 7234

Ion Ratio Lower Upper

228 100

226 31.2 24.6 37.0

229 19.8 15.9 23.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.153 ng

RT: 20.938 min Scan# 2249

Delta R.T. 0.009 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

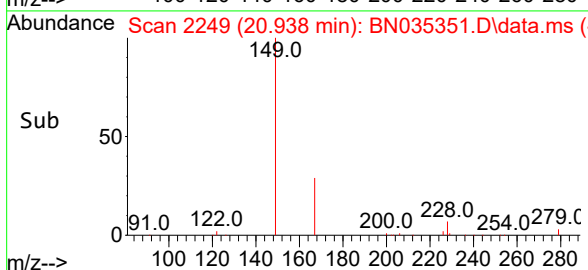
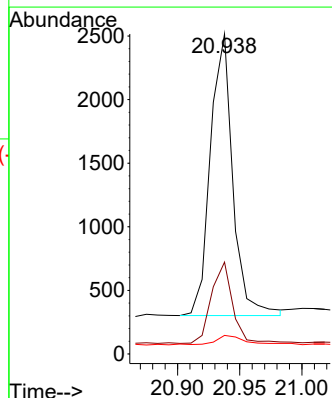
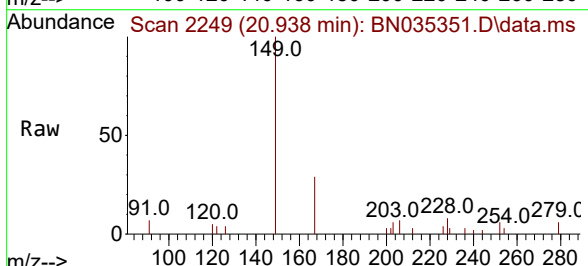
Tgt Ion:149 Resp: 2779

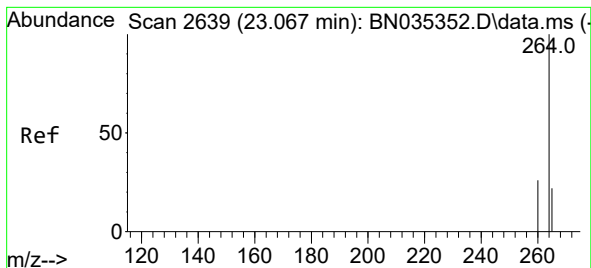
Ion Ratio Lower Upper

149 100

167 27.5 22.2 33.4

279 4.8 2.7 4.1#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.070 min Scan# 2

Delta R.T. 0.003 min

Lab File: BN035351.D

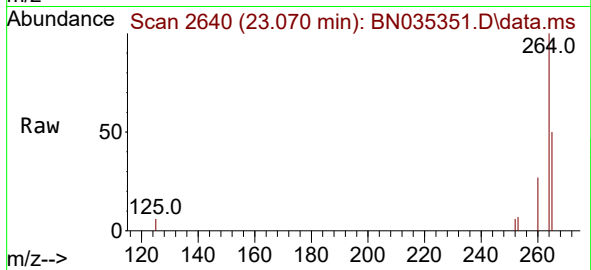
Acq: 27 Nov 2024 16:10

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2



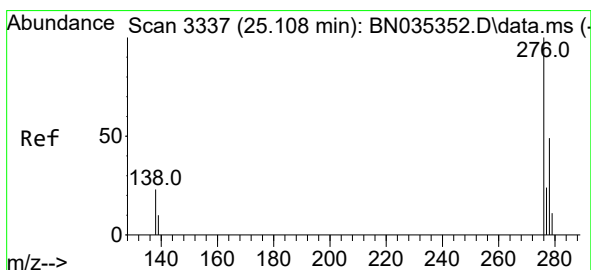
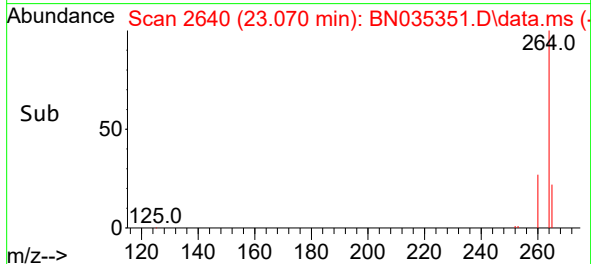
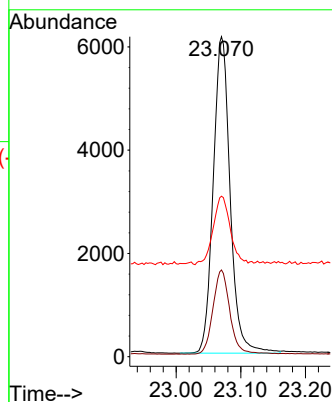
Tgt Ion:264 Resp: 11158

Ion Ratio Lower Upper

264 100

260 27.1 21.4 32.2

265 50.2 40.2 60.4



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.187 ng

RT: 25.108 min Scan# 3337

Delta R.T. -0.000 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

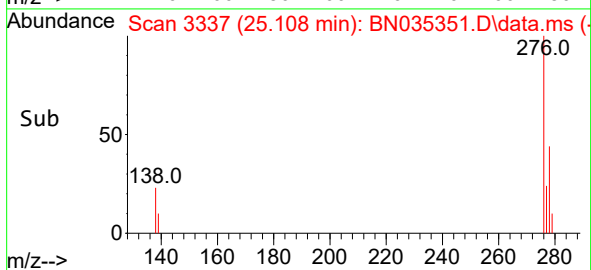
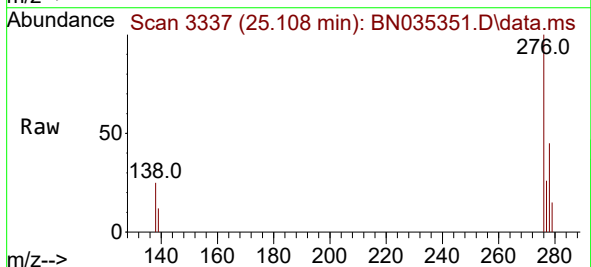
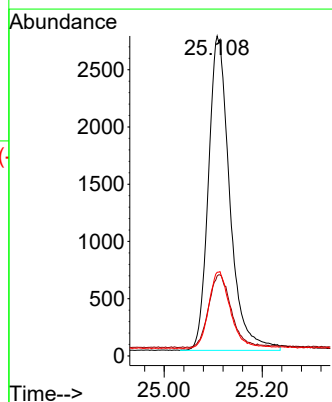
Tgt Ion:276 Resp: 8305

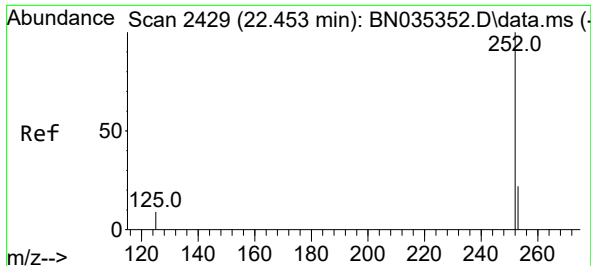
Ion Ratio Lower Upper

276 100

138 24.3 19.4 29.0

277 24.7 19.8 29.6

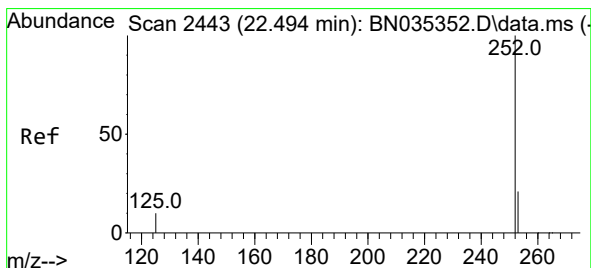
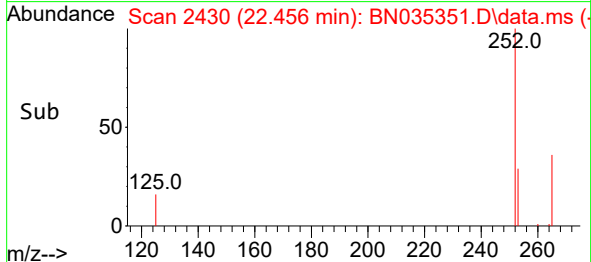
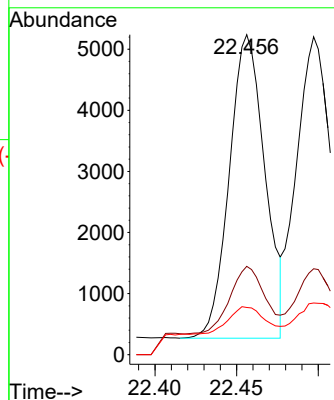
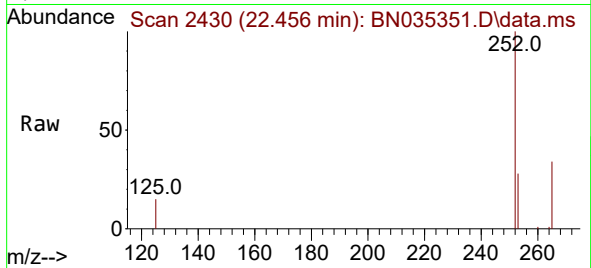




#37  
Benzo(b)fluoranthene  
Concen: 0.200 ng  
RT: 22.456 min Scan# 2430  
Delta R.T. 0.003 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

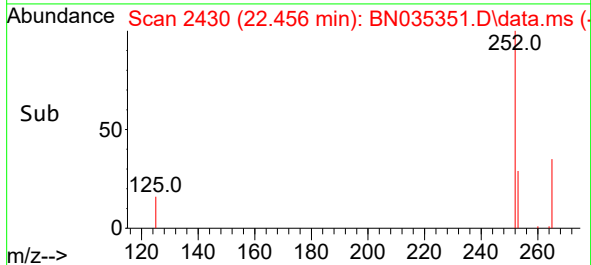
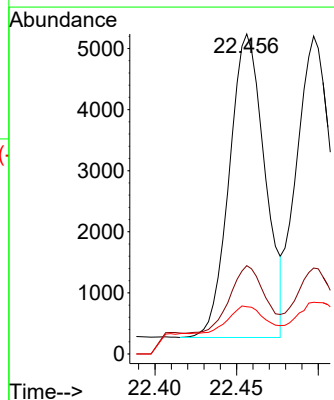
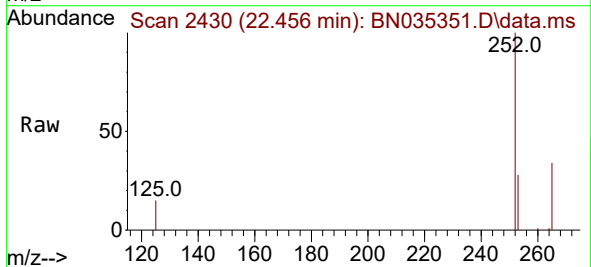
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

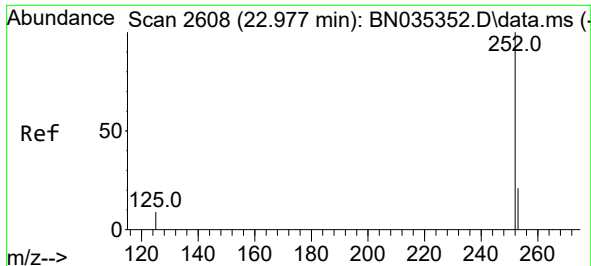
Tgt Ion:252 Resp: 7522  
Ion Ratio Lower Upper  
252 100  
253 27.6 19.6 29.4  
125 14.8 9.6 14.4#



#38  
Benzo(k)fluoranthene  
Concen: 0.200 ng  
RT: 22.456 min Scan# 2430  
Delta R.T. -0.038 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

Tgt Ion:252 Resp: 7522  
Ion Ratio Lower Upper  
252 100  
253 27.6 19.5 29.3  
125 14.8 10.2 15.4





#39

Benzo(a)pyrene

Concen: 0.195 ng

RT: 22.980 min Scan# 2609

Delta R.T. 0.003 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2

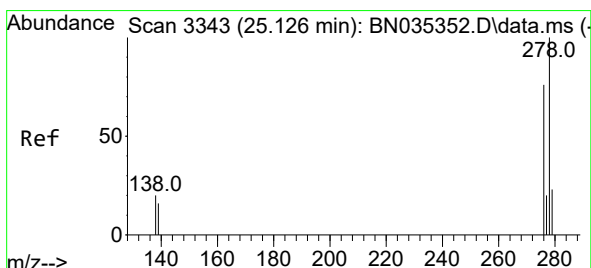
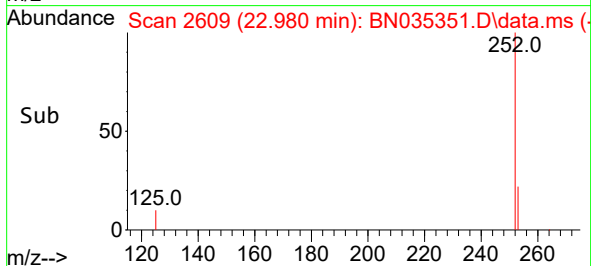
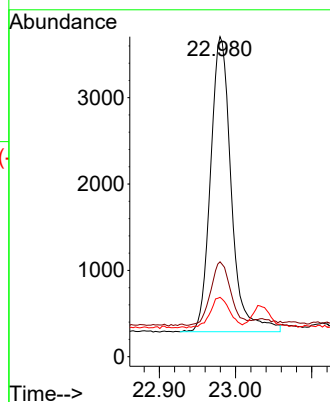
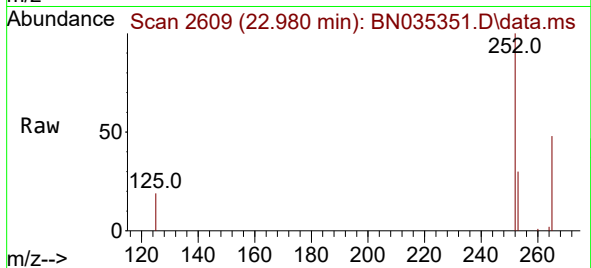
Tgt Ion:252 Resp: 6450

Ion Ratio Lower Upper

252 100

253 29.7 20.2 30.4

125 18.5 10.9 16.3#



#40

Dibenzo(a,h)anthracene

Concen: 0.188 ng

RT: 25.128 min Scan# 3344

Delta R.T. 0.003 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

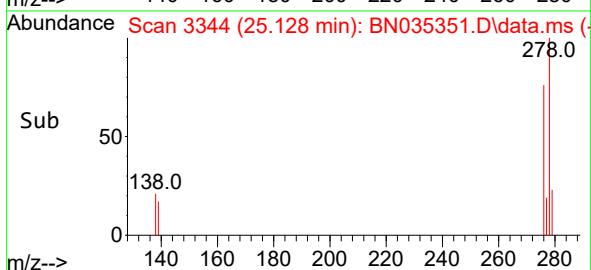
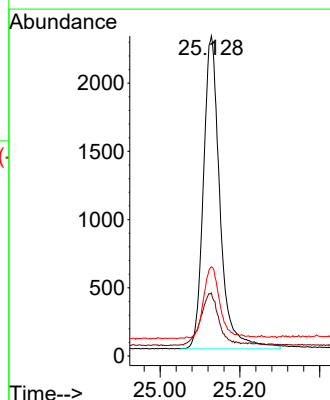
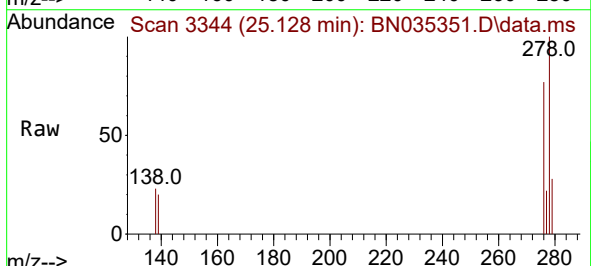
Tgt Ion:278 Resp: 6620

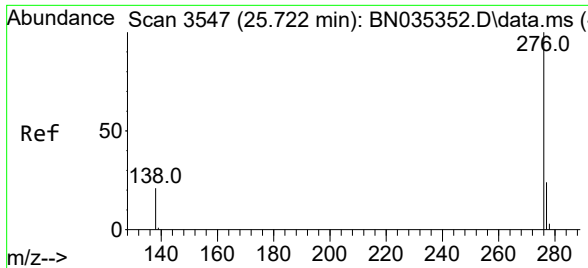
Ion Ratio Lower Upper

278 100

139 19.7 14.2 21.4

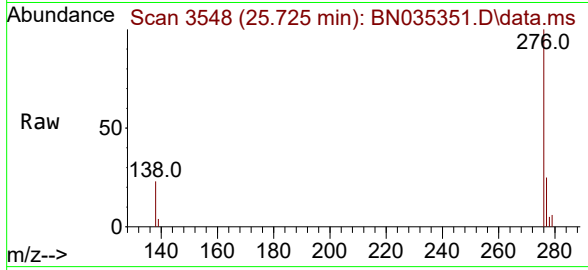
279 27.9 20.5 30.7





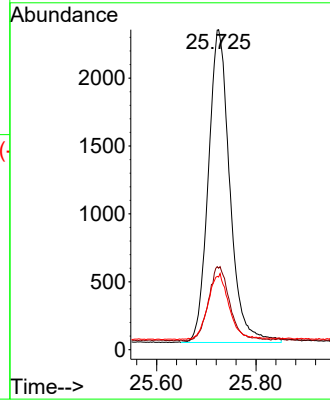
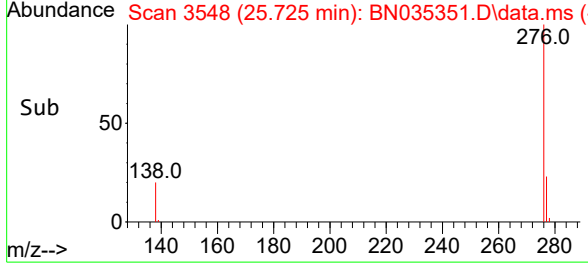
#41  
Benzo(g,h,i)perylene  
Concen: 0.184 ng  
RT: 25.725 min Scan# 31  
Delta R.T. 0.003 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2



Tgt Ion: 276 Resp: 6908

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100   |       |       |
| 277 | 25.5  | 19.9  | 29.9  |
| 138 | 22.7  | 17.8  | 26.8  |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112724\  
 Data File : BN035352.D  
 Acq On : 27 Nov 2024 16:46  
 Operator : RC/JU  
 Sample : SSTDICCC0.4  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICCC0.4

Quant Time: Nov 27 22:52:52 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Nov 27 22:48:24 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.308  | 152  | 2048     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.052 | 136  | 5229     | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 13.967 | 164  | 3799     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 16.736 | 188  | 9490     | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 20.974 | 240  | 9527     | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.067 | 264  | 10842    | 0.400 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 4.968  | 112  | 2085     | 0.401 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.513  | 99   | 2444     | 0.375 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.440  | 82   | 1371     | 0.301 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.656 | 152  | 3237     | 0.347 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.475 | 330  | 975      | 0.356 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.574 | 172  | 5735     | 0.372 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 18.785 | 212  | 10223    | 0.352 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.412 | 244  | 7533     | 0.377 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
|                               |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.003  | 88   | 771      | 0.414 | ng    | 100      |
| 3) n-Nitrosodimethylamine     | 3.292  | 42   | 668      | 0.385 | ng    | 100      |
| 6) bis(2-Chloroethyl)ether    | 6.759  | 93   | 2032     | 0.415 | ng    | 100      |
| 9) Naphthalene                | 10.105 | 128  | 5475     | 0.401 | ng    | 100      |
| 10) Hexachlorobutadiene       | 10.404 | 225  | 1292     | 0.323 | ng    | # 100    |
| 12) 2-Methylnaphthalene       | 11.732 | 142  | 3867     | 0.384 | ng    | 100      |
| 16) Acenaphthylene            | 13.679 | 152  | 6058     | 0.373 | ng    | 100      |
| 17) Acenaphthene              | 14.031 | 154  | 4125     | 0.388 | ng    | 100      |
| 18) Fluorene                  | 15.026 | 166  | 5863     | 0.375 | ng    | 100      |
| 20) 4,6-Dinitro-2-methylph... | 15.133 | 198  | 337      | 0.171 | ng    | 100      |
| 21) 4-Bromophenyl-phenylether | 15.941 | 248  | 2146     | 0.355 | ng    | 100      |
| 22) Hexachlorobenzene         | 16.040 | 284  | 2590     | 0.413 | ng    | 100      |
| 23) Atrazine                  | 16.227 | 200  | 1461     | 0.269 | ng    | 100      |
| 24) Pentachlorophenol         | 16.400 | 266  | 906      | 0.309 | ng    | 87       |
| 25) Phenanthrene              | 16.773 | 178  | 10127    | 0.405 | ng    | 100      |
| 26) Anthracene                | 16.860 | 178  | 8921     | 0.389 | ng    | 100      |
| 28) Fluoranthene              | 18.817 | 202  | 13438    | 0.391 | ng    | 100      |
| 30) Pyrene                    | 19.179 | 202  | 14053    | 0.443 | ng    | 100      |
| 32) Benzo(a)anthracene        | 20.956 | 228  | 12908    | 0.389 | ng    | 100      |
| 33) Chrysene                  | 21.009 | 228  | 13729    | 0.418 | ng    | 100      |
| 34) Bis(2-ethylhexyl)phtha... | 20.929 | 149  | 4912     | 0.282 | ng    | 100      |
| 36) Indeno(1,2,3-cd)pyrene    | 25.108 | 276  | 16615    | 0.384 | ng    | 100      |
| 37) Benzo(b)fluoranthene      | 22.453 | 252  | 14235    | 0.390 | ng    | 100      |
| 38) Benzo(k)fluoranthene      | 22.494 | 252  | 15199    | 0.416 | ng    | 100      |
| 39) Benzo(a)pyrene            | 22.977 | 252  | 12425    | 0.387 | ng    | 100      |
| 40) Dibenzo(a,h)anthracene    | 25.126 | 278  | 12948    | 0.378 | ng    | 100      |
| 41) Benzo(g,h,i)perylene      | 25.722 | 276  | 13529    | 0.371 | ng    | 100      |
| -----                         |        |      |          |       |       |          |

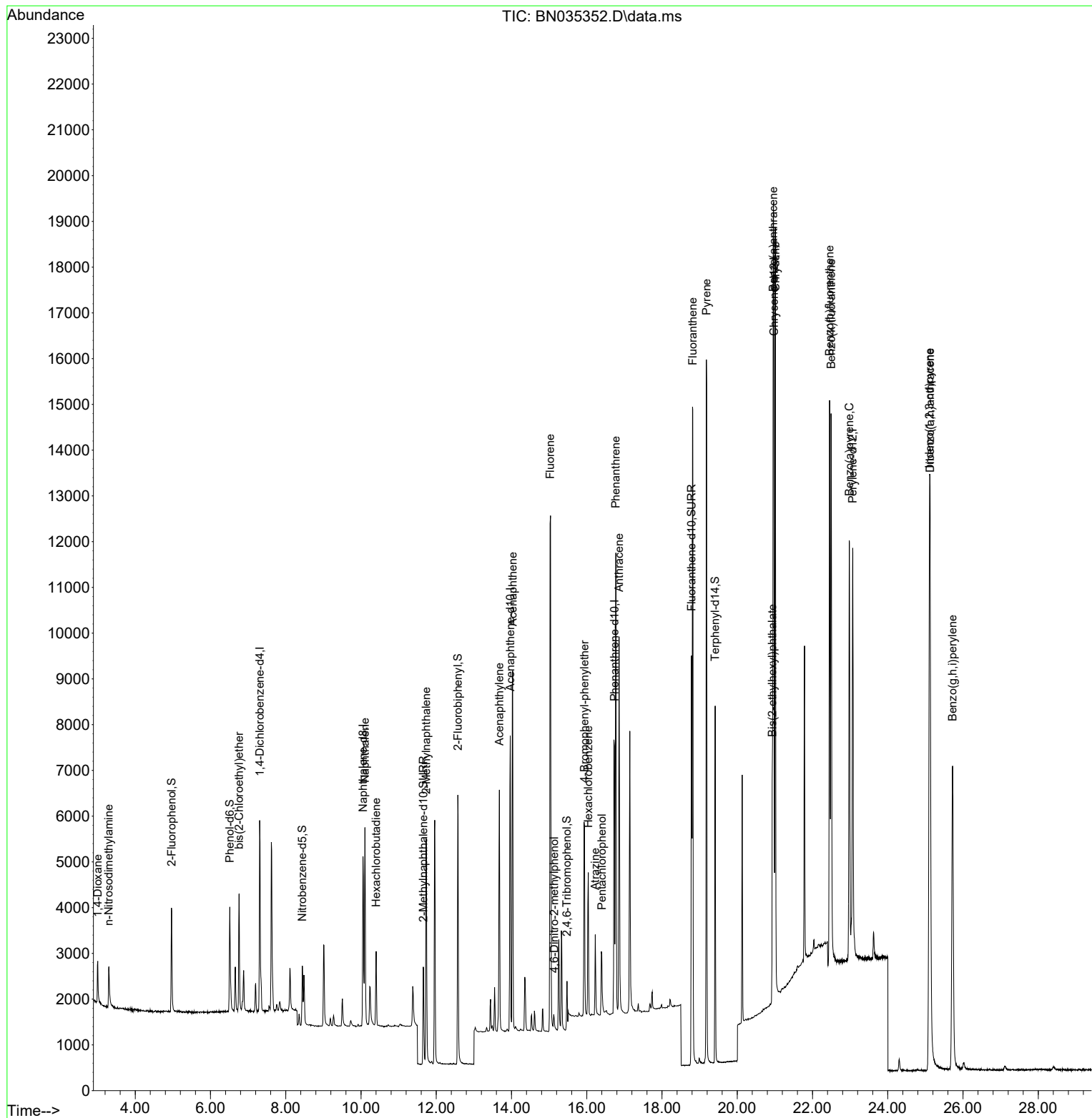
(#) = qualifier out of range (m) = manual integration (+) = signals summed

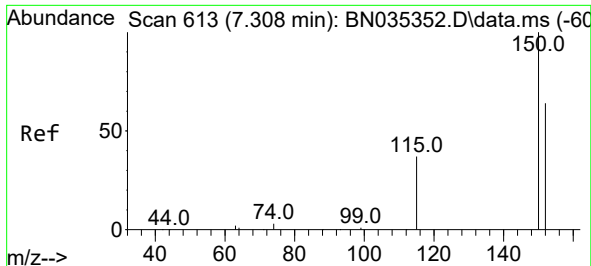


Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112724\  
Data File : BN035352.D  
Acq On : 27 Nov 2024 16:46  
Operator : RC/JU  
Sample : SSTDICCC0.4  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

Quant Time: Nov 27 22:52:52 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Nov 27 22:48:24 2024  
Response via : Initial Calibration

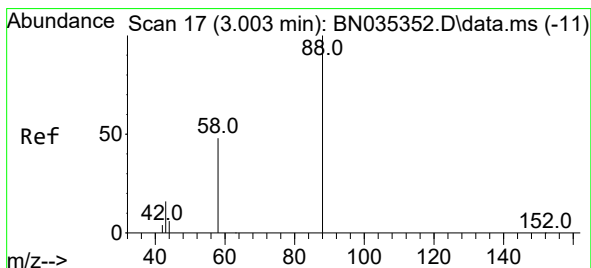
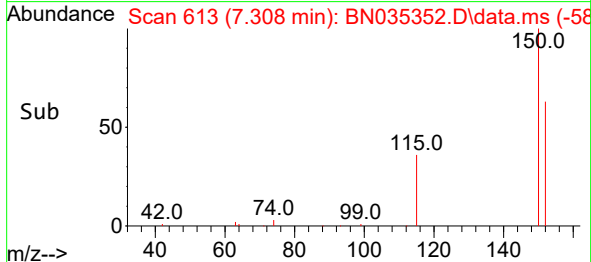
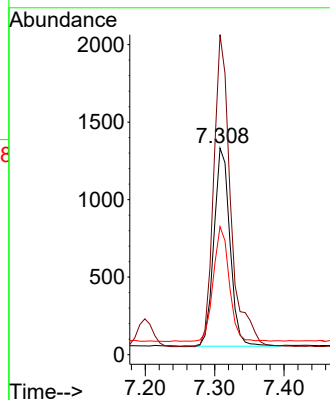
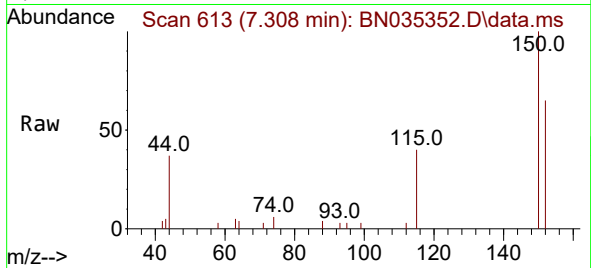




#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.308 min Scan# 613  
Delta R.T. -0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

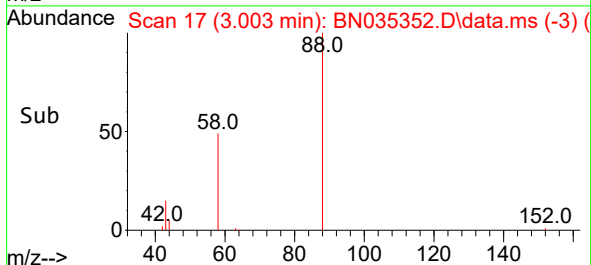
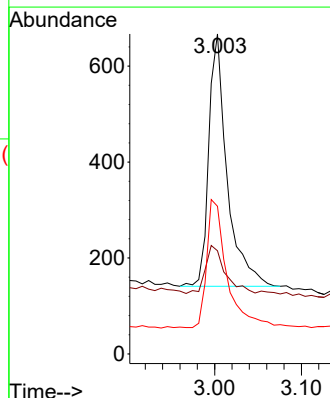
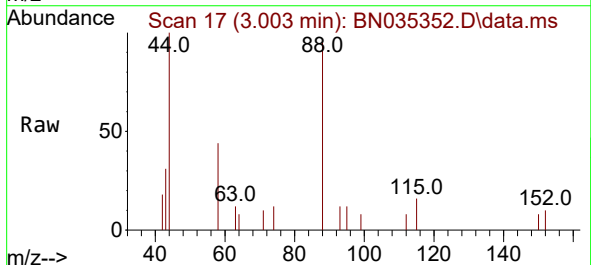
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

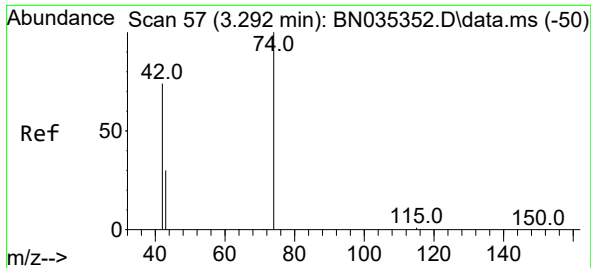
Tgt Ion:152 Resp: 2048  
Ion Ratio Lower Upper  
152 100  
150 155.0 124.0 186.0  
115 62.0 49.6 74.4



#2  
1,4-Dioxane  
Concen: 0.414 ng  
RT: 3.003 min Scan# 17  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

Tgt Ion: 88 Resp: 771  
Ion Ratio Lower Upper  
88 100  
43 21.5 17.2 25.8  
58 55.6 44.5 66.7

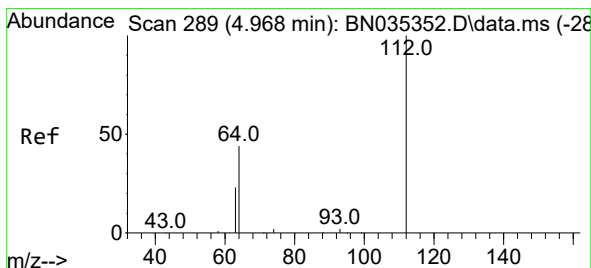
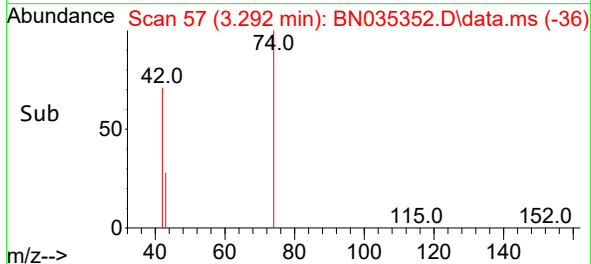
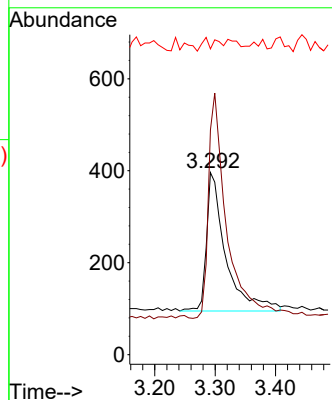
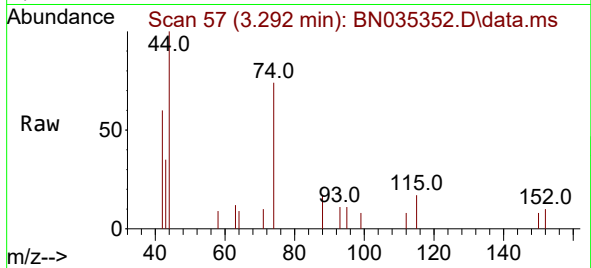




#3  
 n-Nitrosodimethylamine  
 Concen: 0.385 ng  
 RT: 3.292 min Scan# 51  
 Delta R.T. 0.000 min  
 Lab File: BN035352.D  
 Acq: 27 Nov 2024 16:46

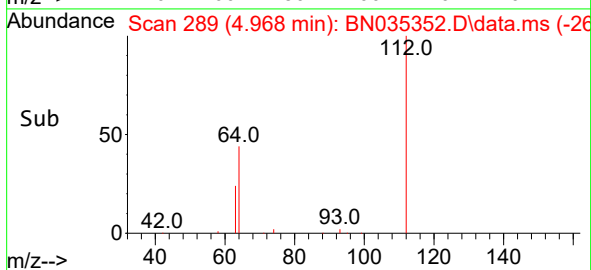
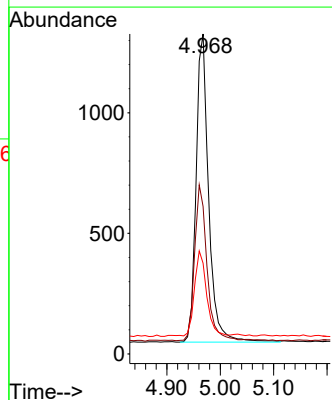
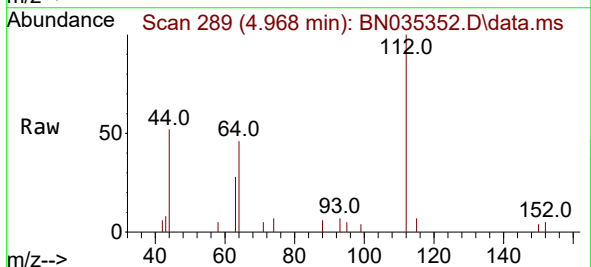
Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC0.4

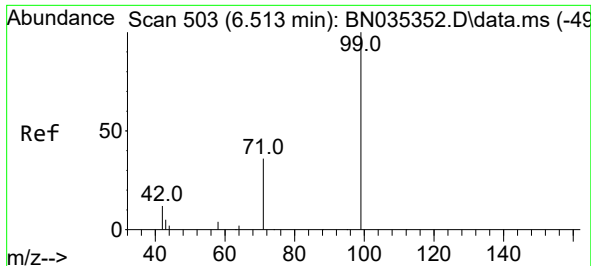
Tgt Ion: 42 Resp: 668  
 Ion Ratio Lower Upper  
 42 100  
 74 156.1 124.9 187.3  
 44 2.8 2.2 3.4



#4  
 2-Fluorophenol  
 Concen: 0.401 ng  
 RT: 4.968 min Scan# 289  
 Delta R.T. 0.000 min  
 Lab File: BN035352.D  
 Acq: 27 Nov 2024 16:46

Tgt Ion: 112 Resp: 2085  
 Ion Ratio Lower Upper  
 112 100  
 64 49.8 39.8 59.8  
 63 26.3 21.0 31.6

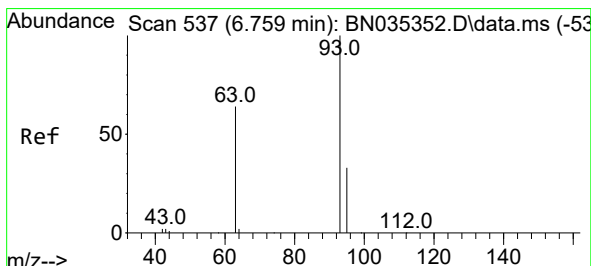
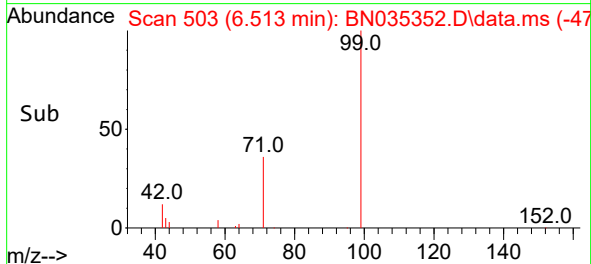
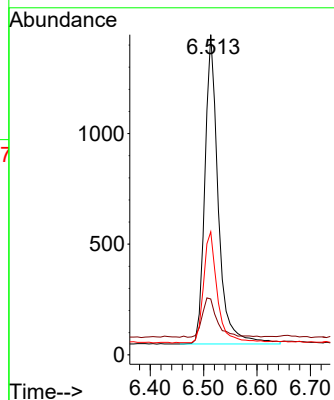
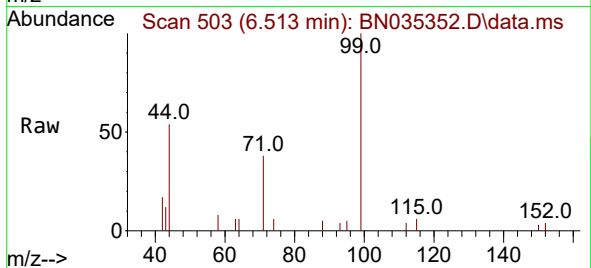




#5  
Phenol-d6  
Concen: 0.375 ng  
RT: 6.513 min Scan# 503  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

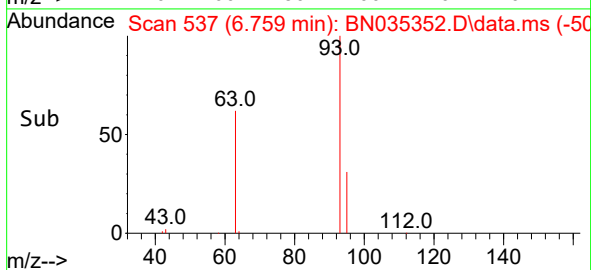
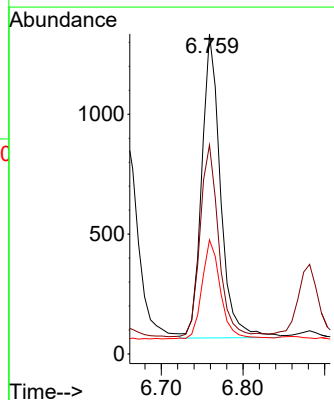
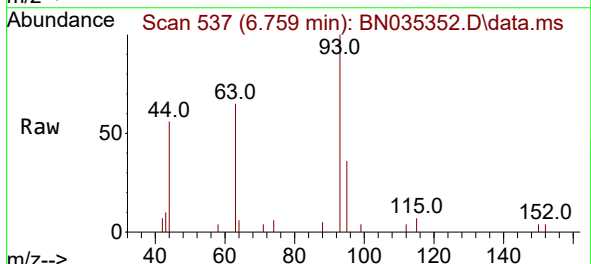
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

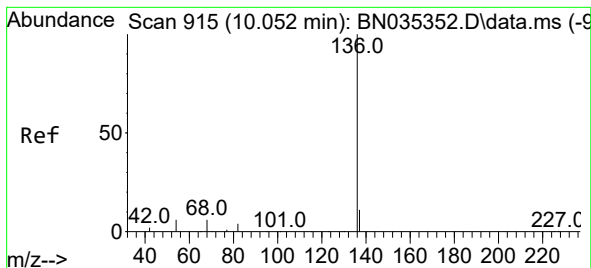
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 99    | Resp: | 2444  |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 14.3  | 11.4  | 17.2  |
| 71       | 36.6  | 29.3  | 43.9  |



#6  
bis(2-Chloroethyl)ether  
Concen: 0.415 ng  
RT: 6.759 min Scan# 537  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 93    | Resp: | 2032  |
| Ion      | Ratio | Lower | Upper |
| 93       | 100   |       |       |
| 63       | 63.0  | 50.4  | 75.6  |
| 95       | 32.1  | 25.7  | 38.5  |





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.052 min Scan# 915

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

Tgt Ion:136 Resp: 5229

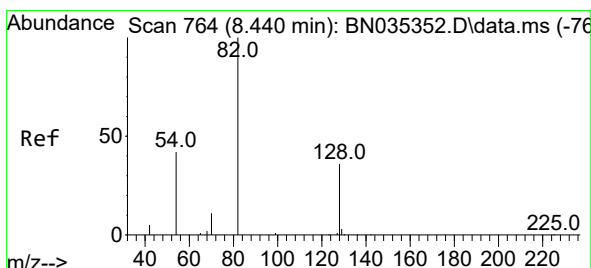
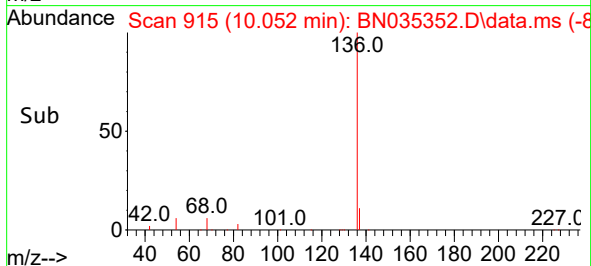
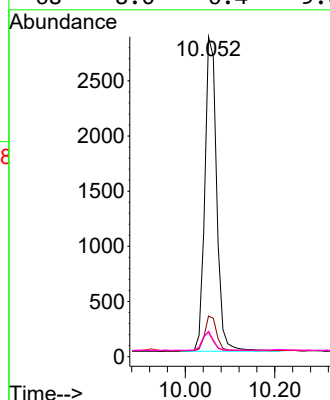
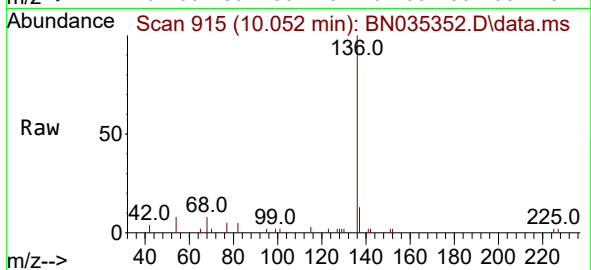
Ion Ratio Lower Upper

136 100

137 12.7 10.2 15.2

54 7.6 6.1 9.1

68 8.0 6.4 9.6



#8

Nitrobenzene-d5

Concen: 0.301 ng

RT: 8.440 min Scan# 764

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

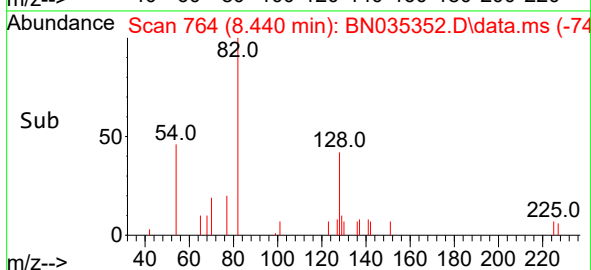
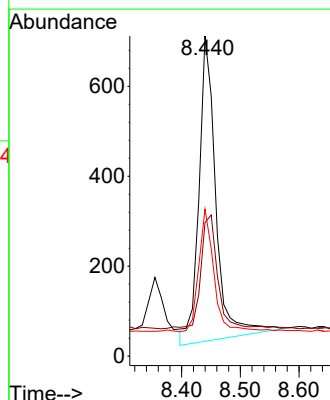
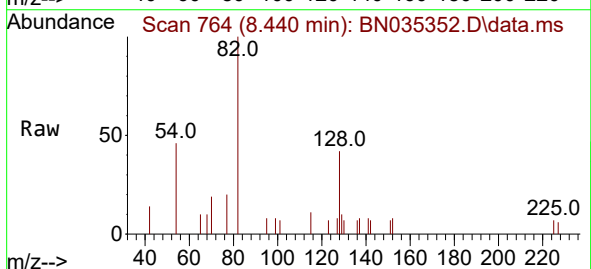
Tgt Ion: 82 Resp: 1371

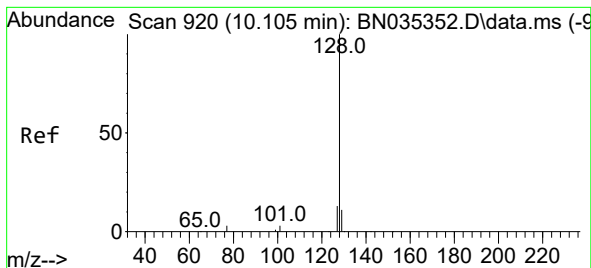
Ion Ratio Lower Upper

82 100

128 41.7 33.4 50.0

54 45.9 36.7 55.1





#9

Naphthalene

Concen: 0.401 ng

RT: 10.105 min Scan# 91

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

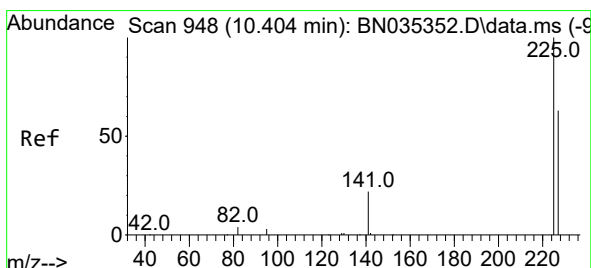
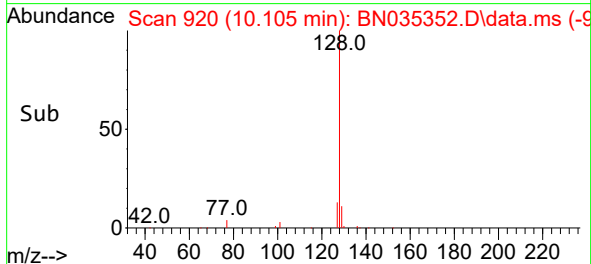
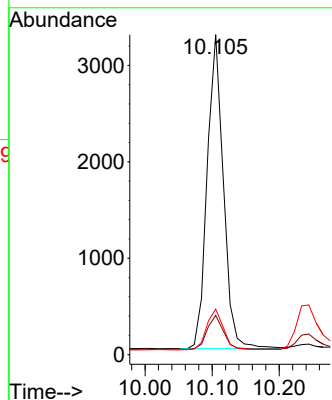
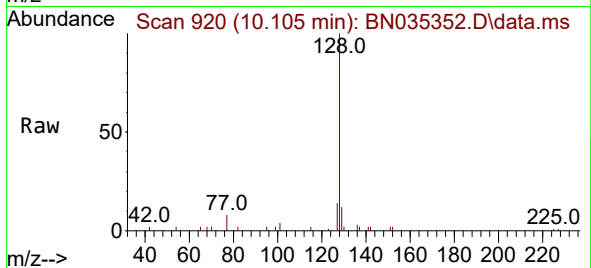
Tgt Ion:128 Resp: 5475

Ion Ratio Lower Upper

128 100

129 12.2 9.8 14.6

127 14.3 11.4 17.2



#10

Hexachlorobutadiene

Concen: 0.323 ng

RT: 10.404 min Scan# 948

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

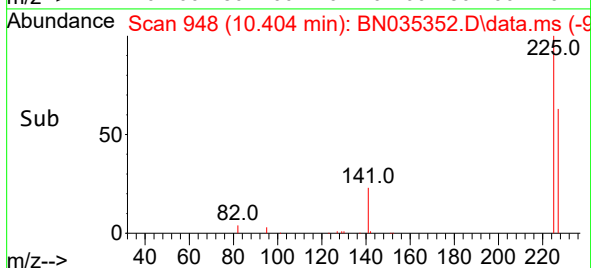
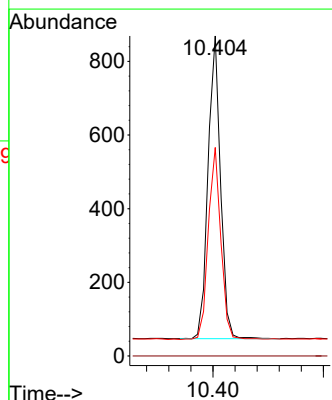
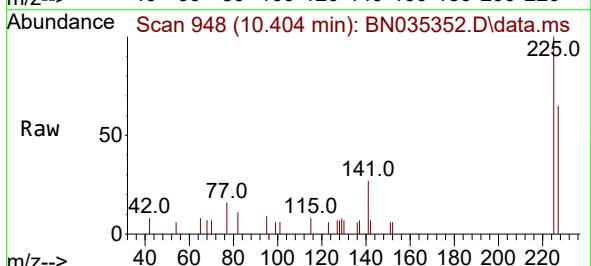
Tgt Ion:225 Resp: 1292

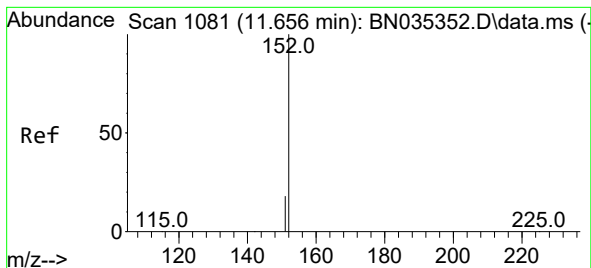
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 64.1 51.3 76.9

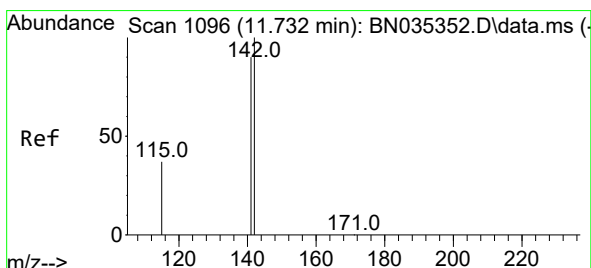
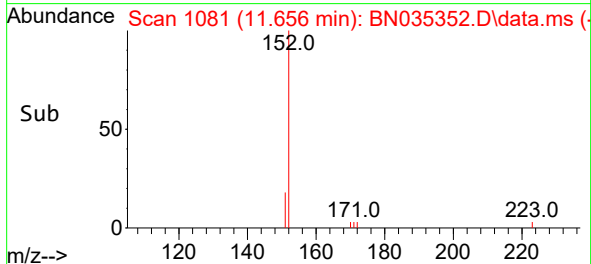
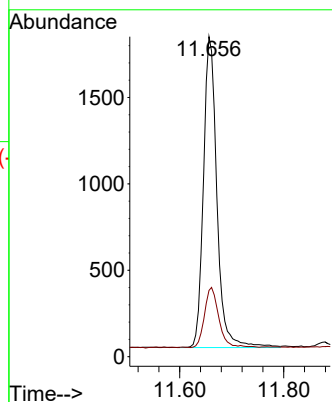
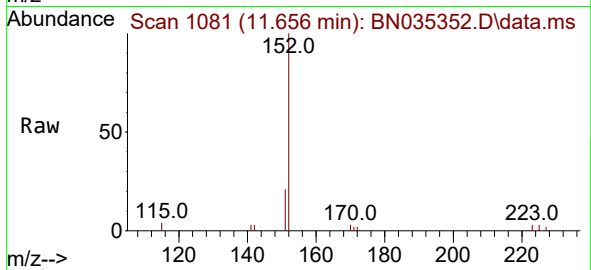




#11  
2-Methylnaphthalene-d10  
Concen: 0.347 ng  
RT: 11.656 min Scan# 1081  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

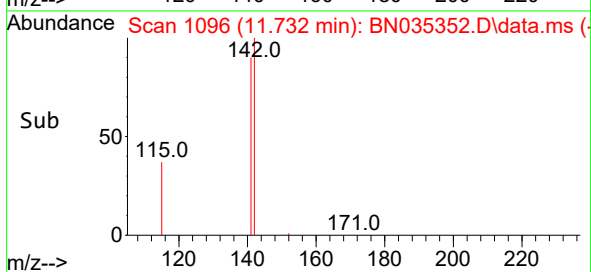
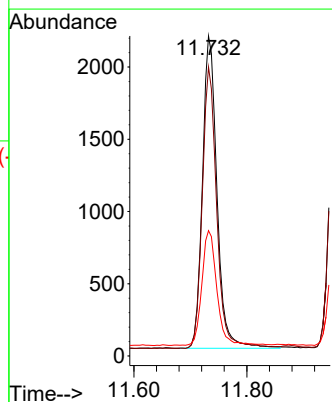
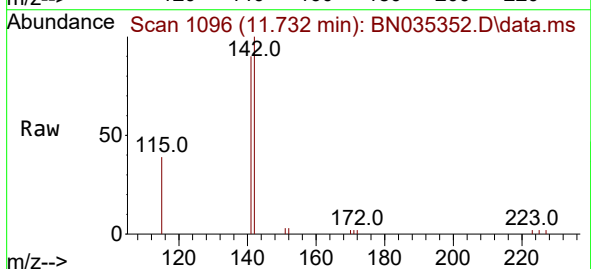
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

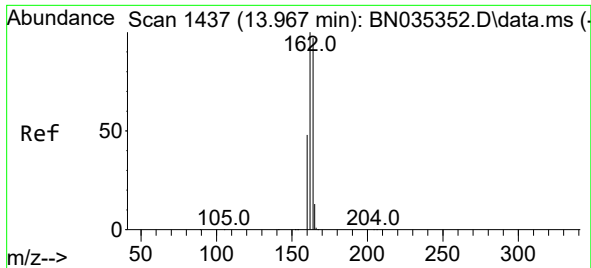
Tgt Ion:152 Resp: 3237  
Ion Ratio Lower Upper  
152 100  
151 20.8 16.6 25.0



#12  
2-Methylnaphthalene  
Concen: 0.384 ng  
RT: 11.732 min Scan# 1096  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

Tgt Ion:142 Resp: 3867  
Ion Ratio Lower Upper  
142 100  
141 90.3 72.2 108.4  
115 39.2 31.4 47.0

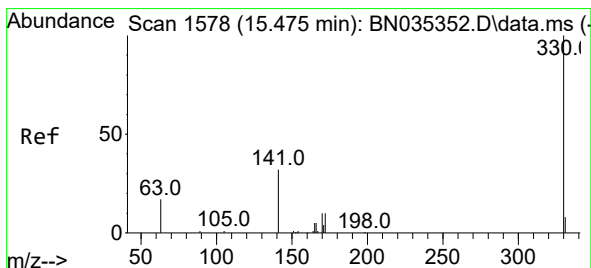
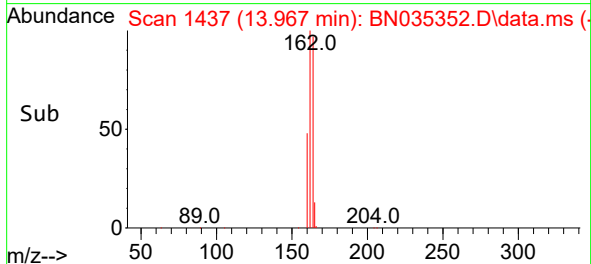
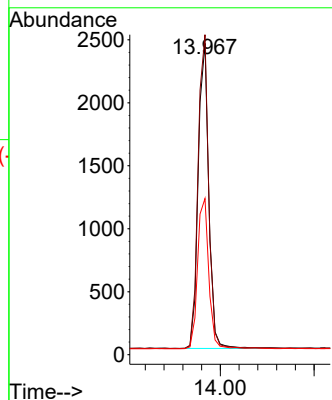
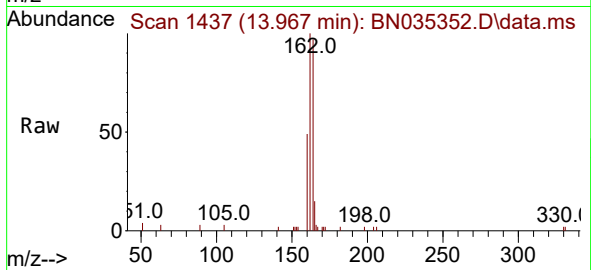




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.967 min Scan# 1437  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

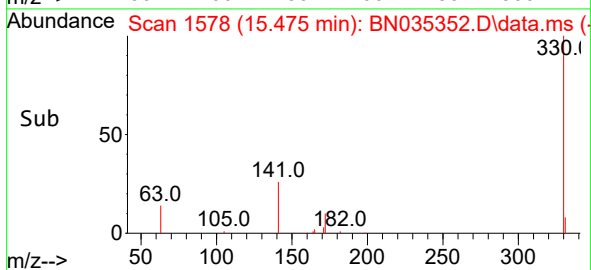
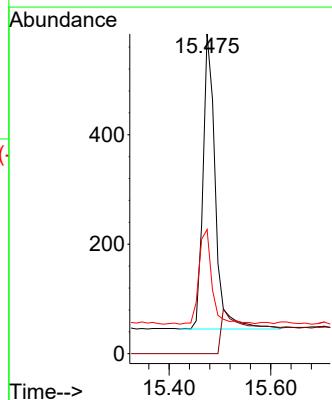
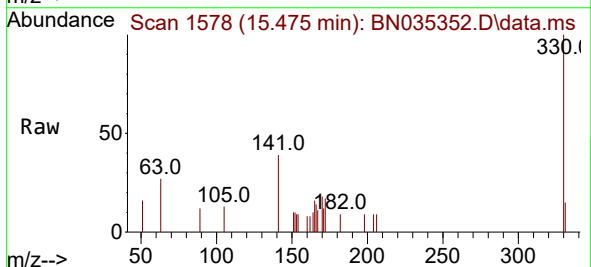
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

Tgt Ion:164 Resp: 3799  
Ion Ratio Lower Upper  
164 100  
162 102.7 82.2 123.2  
160 50.1 40.1 60.1

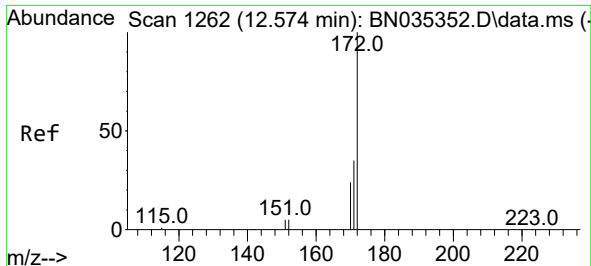


#14  
2,4,6-Tribromophenol  
Concen: 0.356 ng  
RT: 15.475 min Scan# 1578  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

Tgt Ion:330 Resp: 975  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 33.3 26.6 40.0



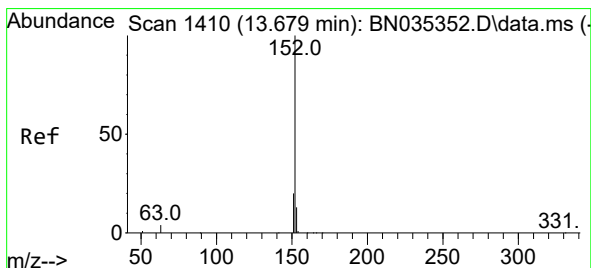
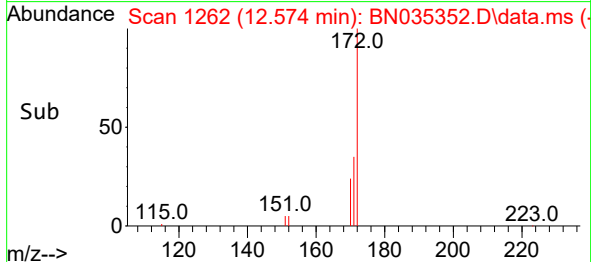
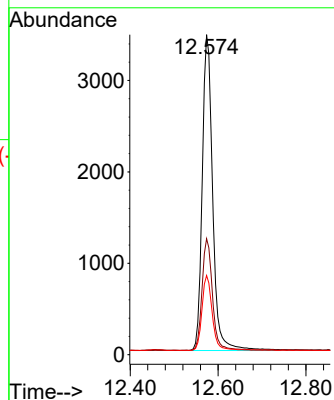
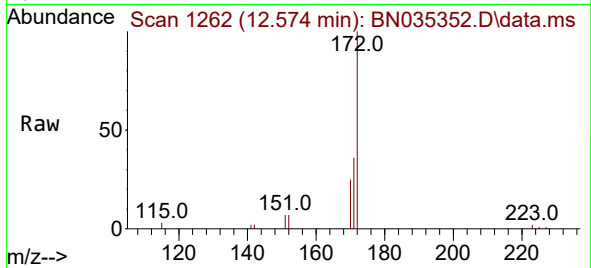




#15  
2-Fluorobiphenyl  
Concen: 0.372 ng  
RT: 12.574 min Scan# 1262  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

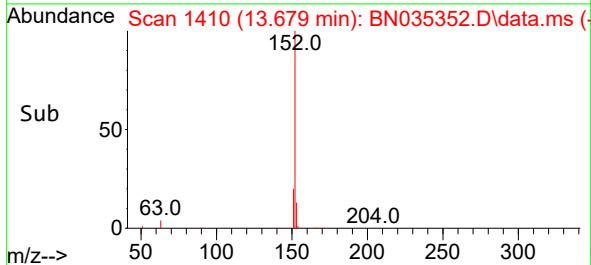
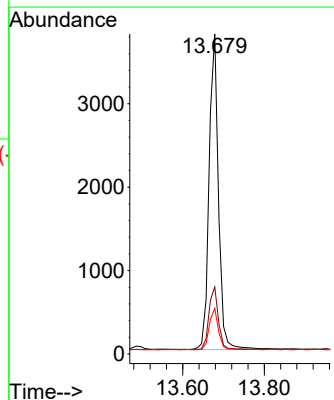
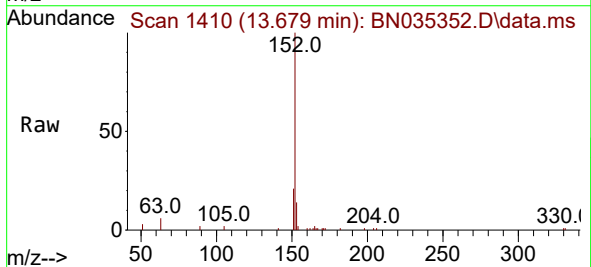
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

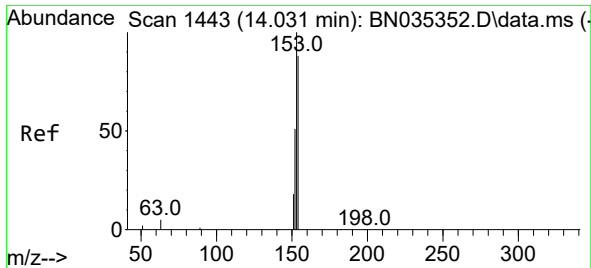
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 172   | Resp: | 5735 |
| Ion Ratio | Lower | Upper |      |
| 172       | 100   |       |      |
| 171       | 36.2  | 29.0  | 43.4 |
| 170       | 24.8  | 19.8  | 29.8 |



#16  
Acenaphthylene  
Concen: 0.373 ng  
RT: 13.679 min Scan# 1410  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 152   | Resp: | 6058 |
| Ion Ratio | Lower | Upper |      |
| 152       | 100   |       |      |
| 151       | 20.2  | 16.2  | 24.2 |
| 153       | 13.0  | 10.4  | 15.6 |

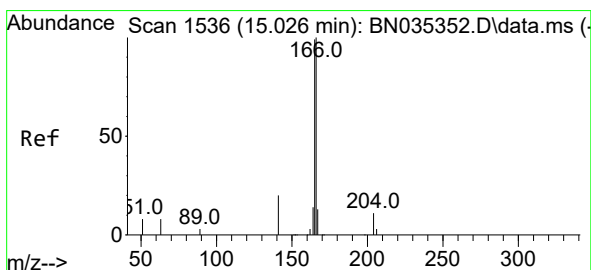
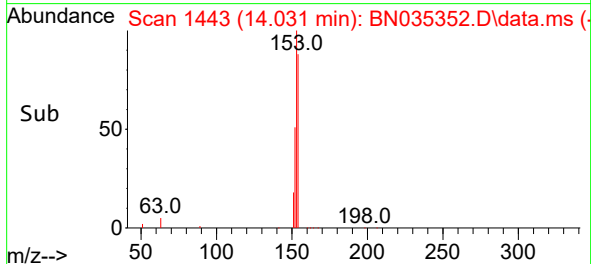
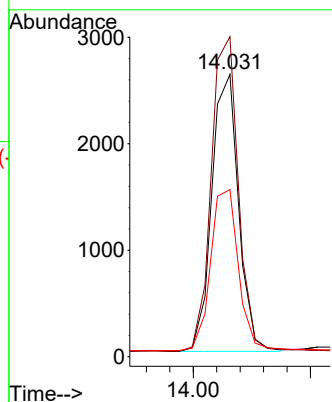
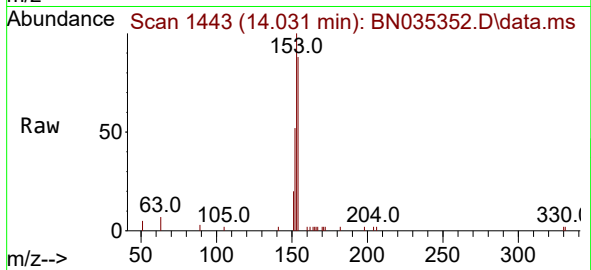




#17  
Acenaphthene  
Concen: 0.388 ng  
RT: 14.031 min Scan# 1443  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

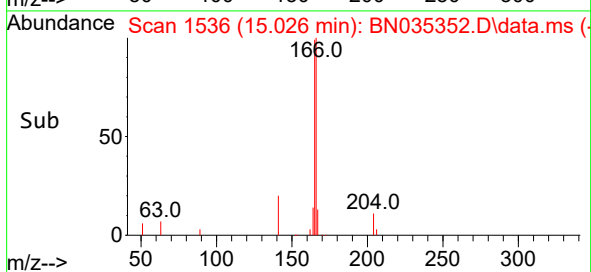
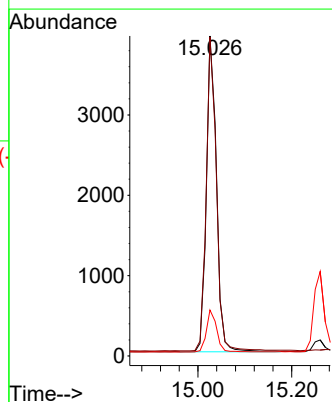
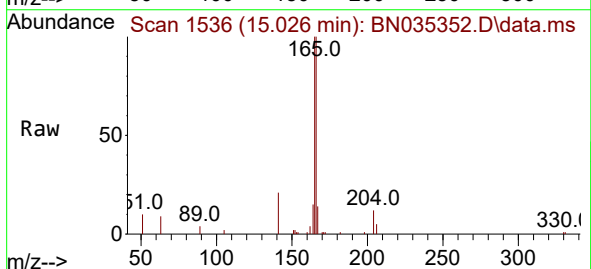
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

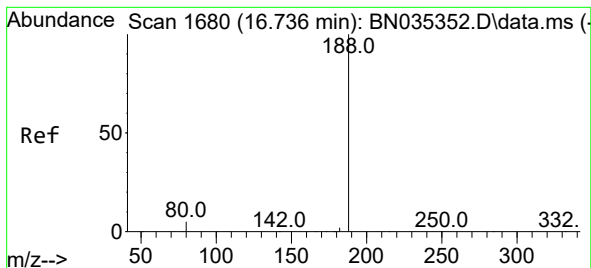
Tgt Ion:154 Resp: 4125  
Ion Ratio Lower Upper  
154 100  
153 115.8 92.6 139.0  
152 61.3 49.0 73.6



#18  
Fluorene  
Concen: 0.375 ng  
RT: 15.026 min Scan# 1536  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

Tgt Ion:166 Resp: 5863  
Ion Ratio Lower Upper  
166 100  
165 99.6 79.7 119.5  
167 13.5 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.736 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

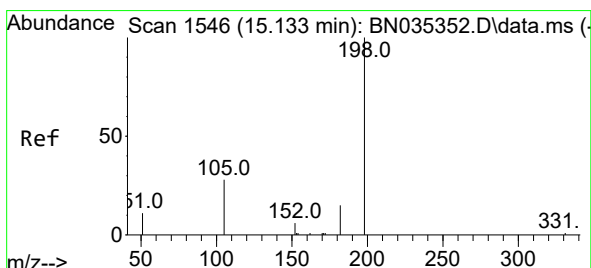
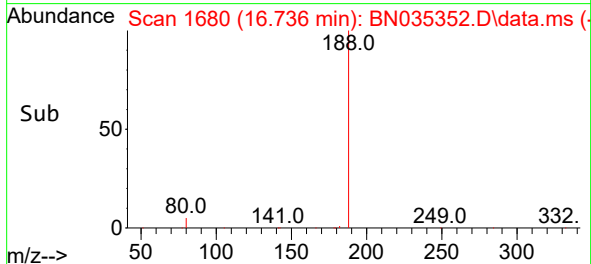
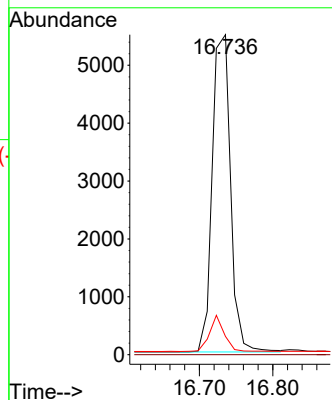
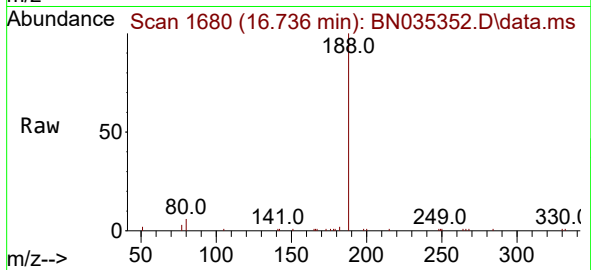
Tgt Ion:188 Resp: 9490

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 5.7 4.6 6.8



#20

4,6-Dinitro-2-methylphenol

Concen: 0.171 ng

RT: 15.133 min Scan# 1546

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

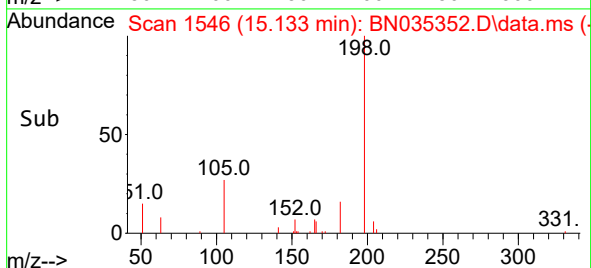
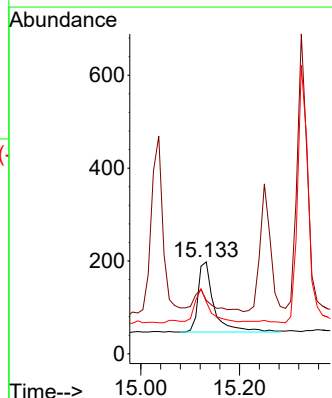
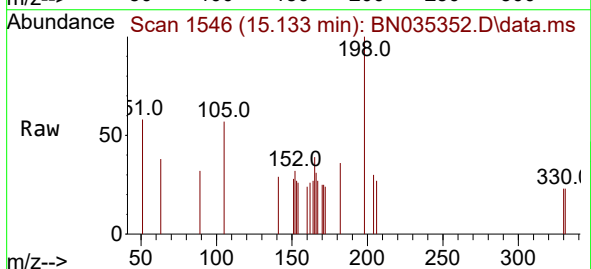
Tgt Ion:198 Resp: 337

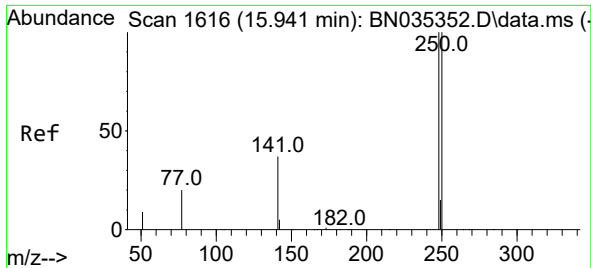
Ion Ratio Lower Upper

198 100

51 58.1 46.5 69.7

105 56.6 45.3 67.9

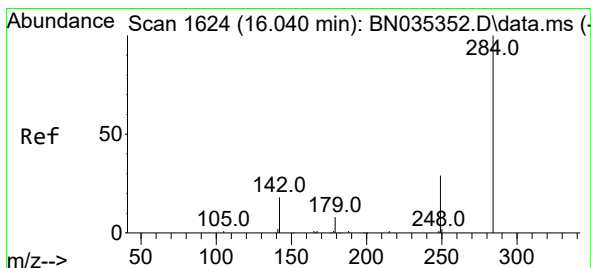
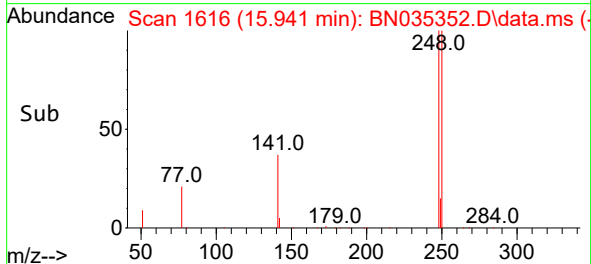
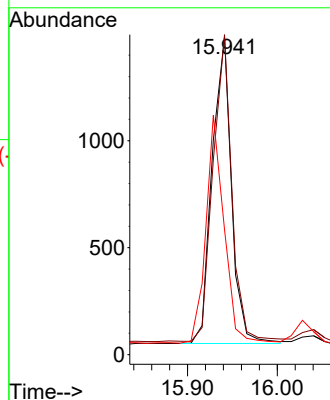
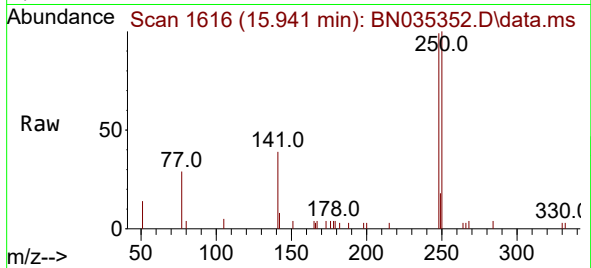




#21  
4-Bromophenyl-phenylether  
Concen: 0.355 ng  
RT: 15.941 min Scan# 1616  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

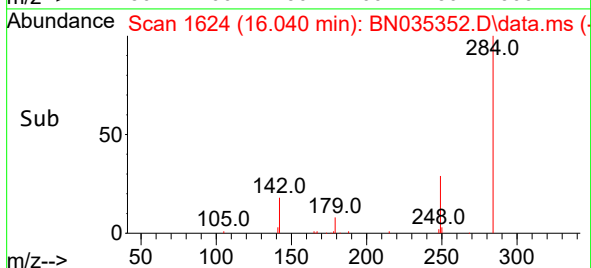
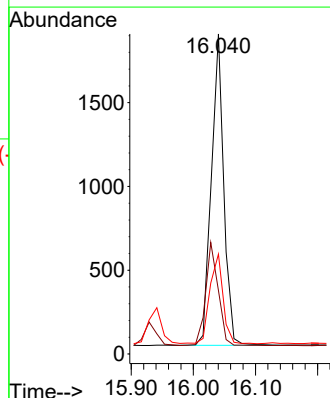
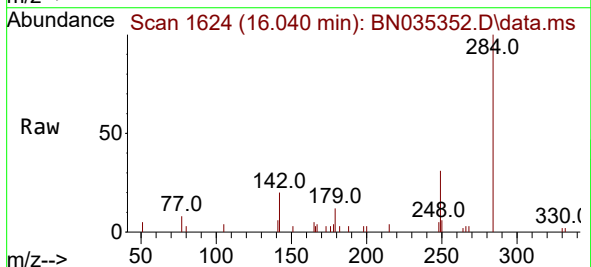
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

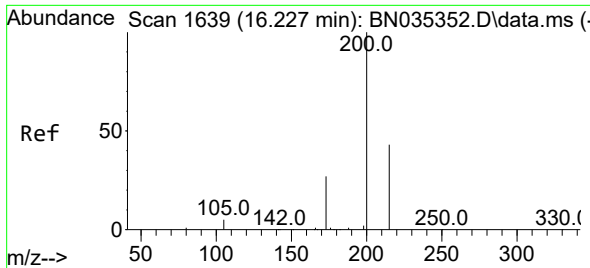
Tgt Ion:248 Resp: 2146  
Ion Ratio Lower Upper  
248 100  
250 100.7 80.6 120.8  
141 39.4 31.5 47.3



#22  
Hexachlorobenzene  
Concen: 0.413 ng  
RT: 16.040 min Scan# 1624  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

Tgt Ion:284 Resp: 2590  
Ion Ratio Lower Upper  
284 100  
142 33.4 26.7 40.1  
249 30.7 24.6 36.8

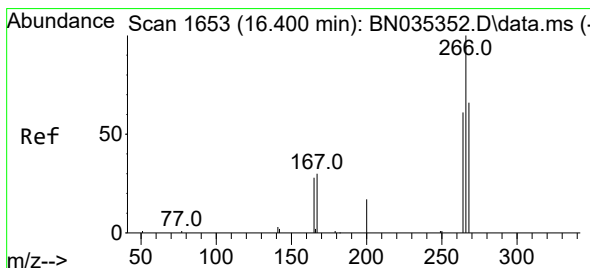
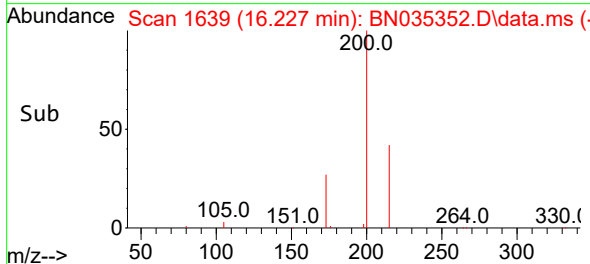
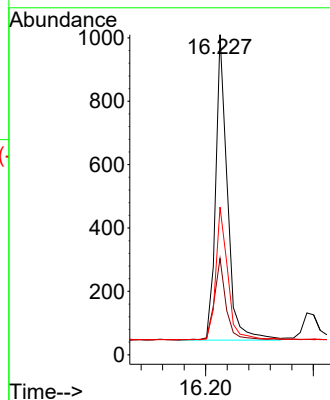
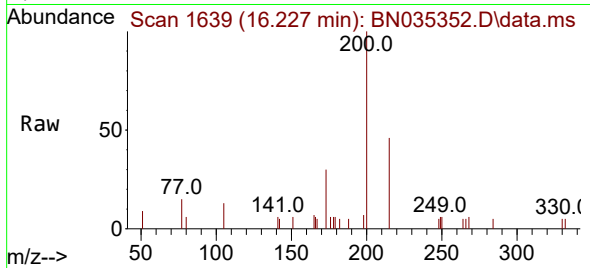




#23  
Atrazine  
Concen: 0.269 ng  
RT: 16.227 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

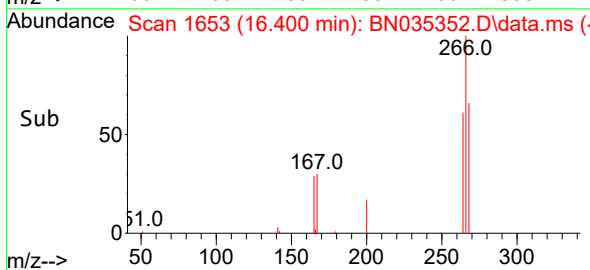
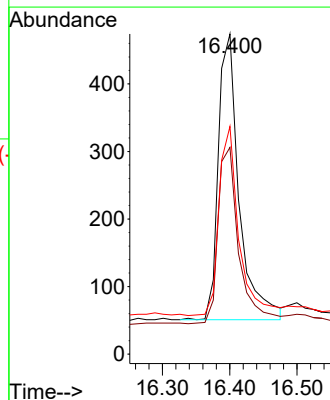
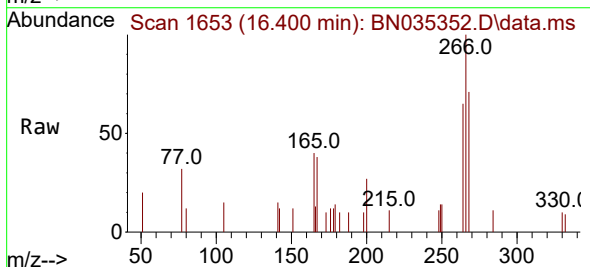
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

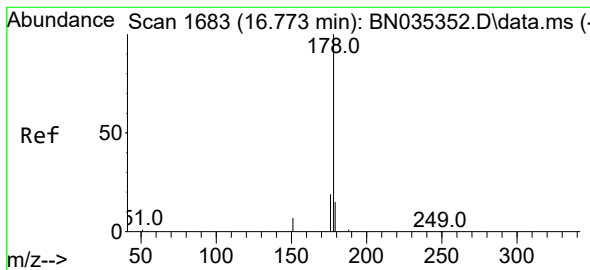
Tgt Ion:200 Resp: 1461  
Ion Ratio Lower Upper  
200 100  
173 30.1 24.1 36.1  
215 46.1 36.9 55.3



#24  
Pentachlorophenol  
Concen: 0.309 ng  
RT: 16.400 min Scan# 1653  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

Tgt Ion:266 Resp: 906  
Ion Ratio Lower Upper  
266 100  
264 62.4 42.3 63.5  
268 63.8 43.3 64.9





#25

Phenanthrene

Concen: 0.405 ng

RT: 16.773 min Scan# 1683

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

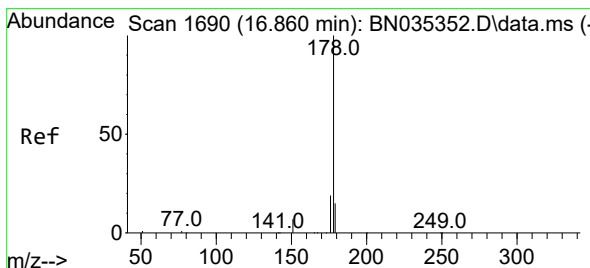
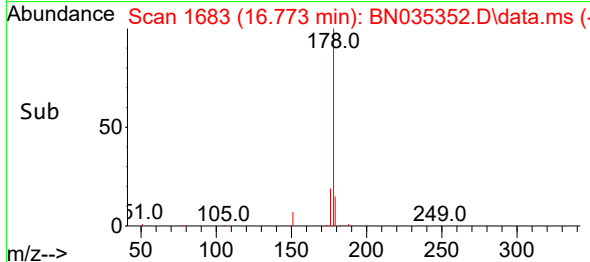
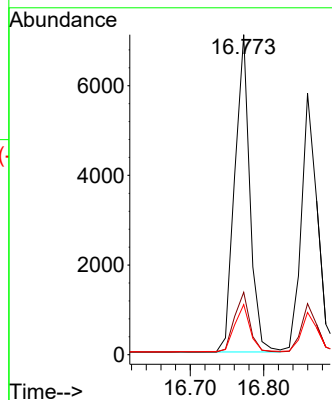
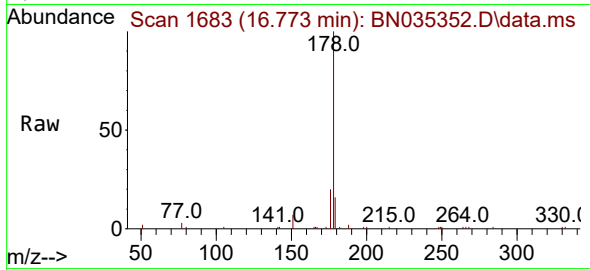
Tgt Ion:178 Resp: 10127

Ion Ratio Lower Upper

178 100

176 19.3 15.4 23.2

179 15.4 12.3 18.5



#26

Anthracene

Concen: 0.389 ng

RT: 16.860 min Scan# 1690

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

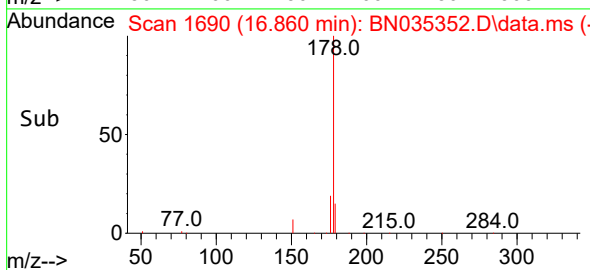
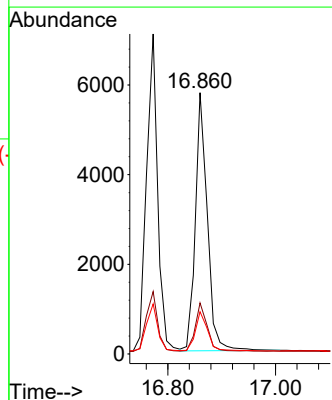
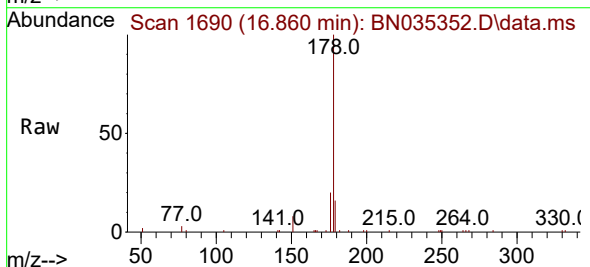
Tgt Ion:178 Resp: 8921

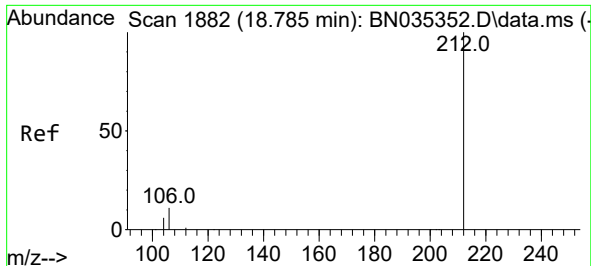
Ion Ratio Lower Upper

178 100

176 18.8 15.0 22.6

179 15.7 12.6 18.8

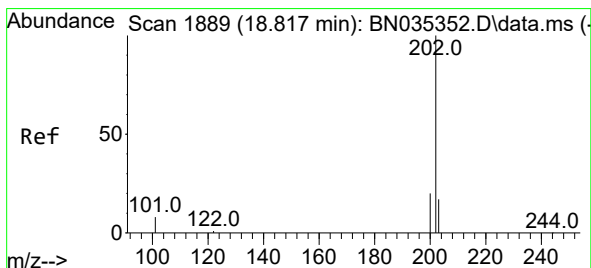
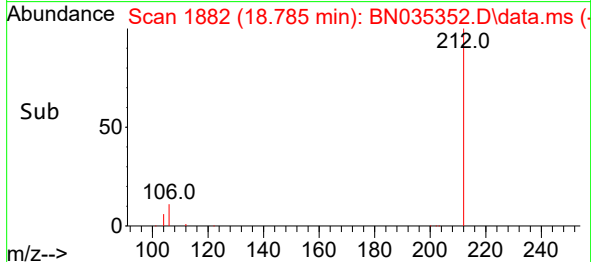
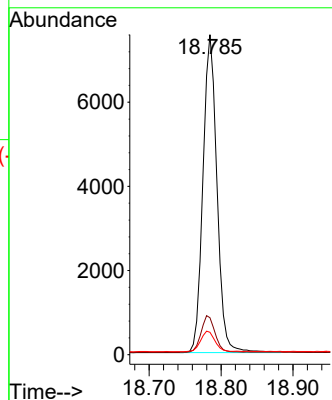
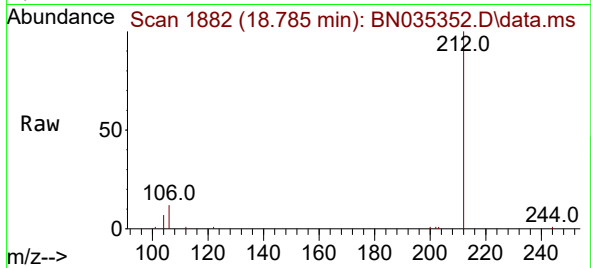




#27  
Fluoranthene-d10  
Concen: 0.352 ng  
RT: 18.785 min Scan# 1882  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

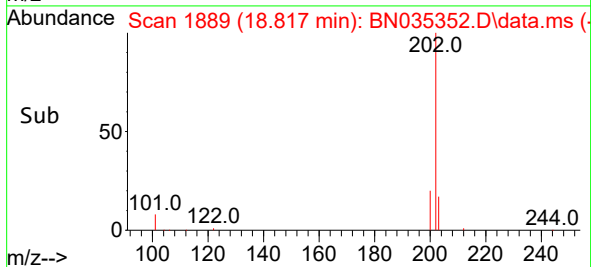
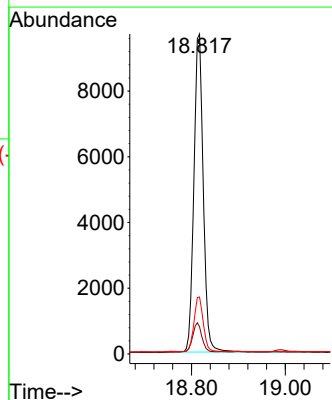
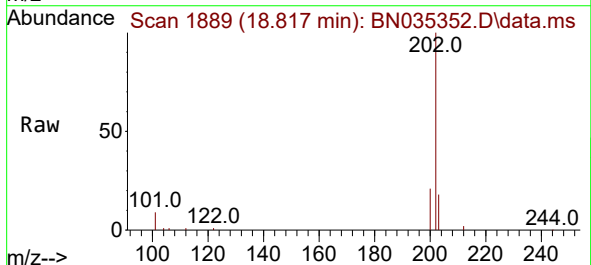
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

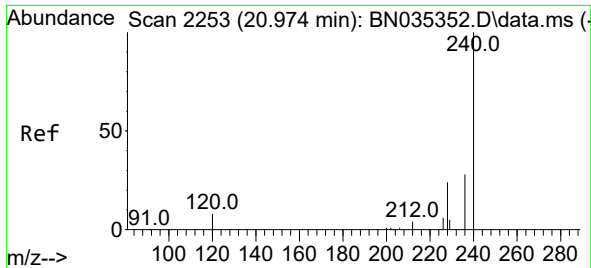
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 212     | 100   |       |       |
| 106     | 11.5  | 9.2   | 13.8  |
| 104     | 6.6   | 5.3   | 7.9   |



#28  
Fluoranthene  
Concen: 0.391 ng  
RT: 18.817 min Scan# 1889  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 9.2   | 7.4   | 11.0  |
| 203     | 17.1  | 13.7  | 20.5  |

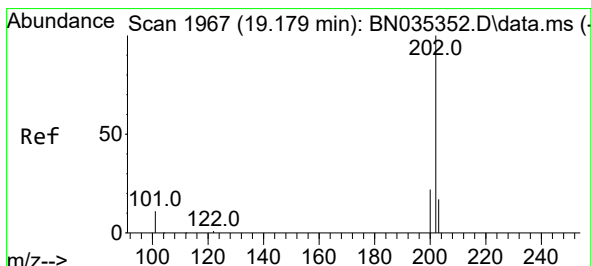
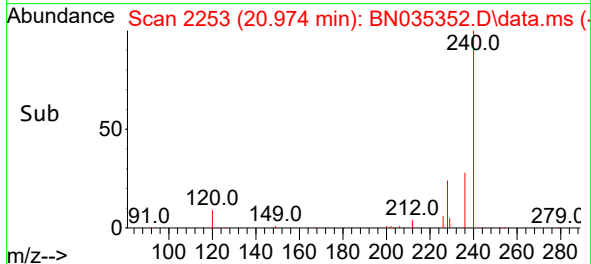
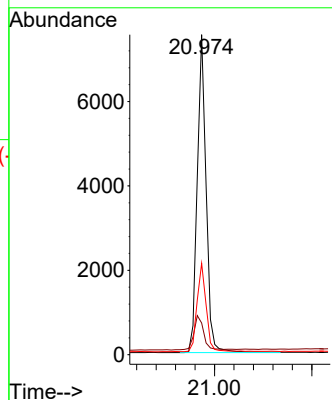
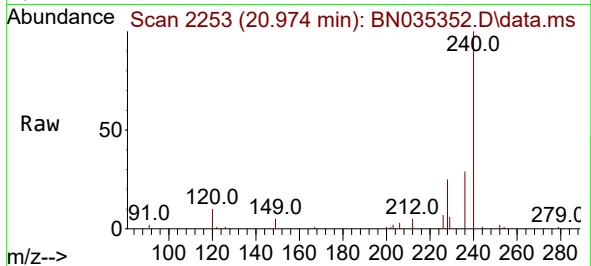




#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 20.974 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

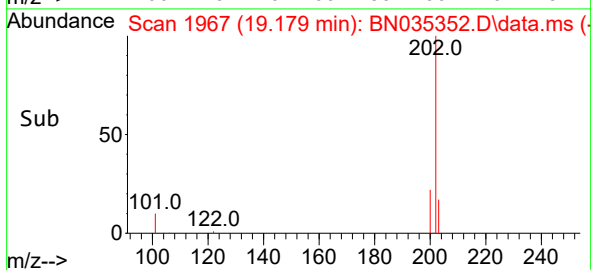
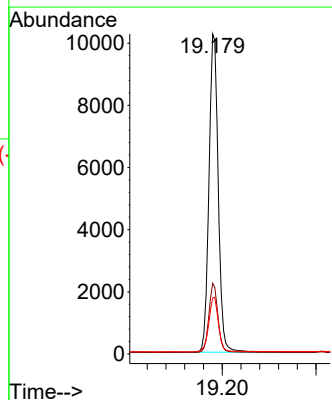
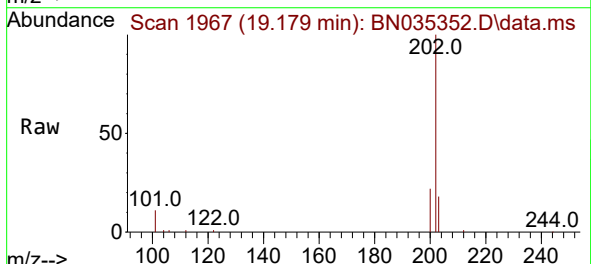
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

Tgt Ion:240 Resp: 9527  
Ion Ratio Lower Upper  
240 100  
120 9.9 7.9 11.9  
236 28.6 22.9 34.3

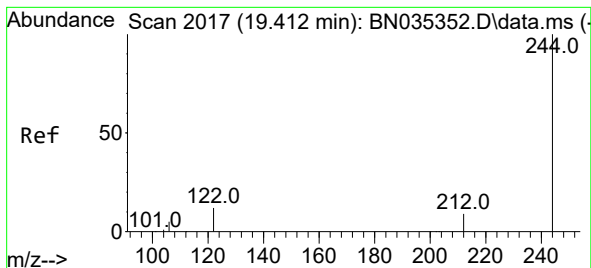


#30  
Pyrene  
Concen: 0.443 ng  
RT: 19.179 min Scan# 1967  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

Tgt Ion:202 Resp: 14053  
Ion Ratio Lower Upper  
202 100  
200 21.2 17.0 25.4  
203 17.9 14.3 21.5







#31

Terphenyl-d14

Concen: 0.377 ng

RT: 19.412 min Scan# 2017

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

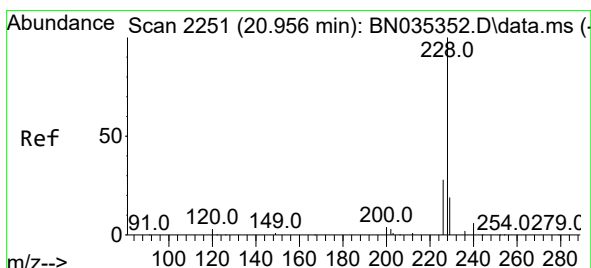
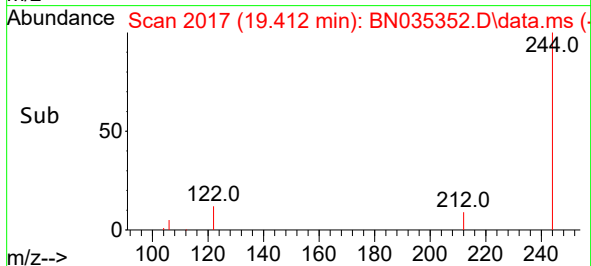
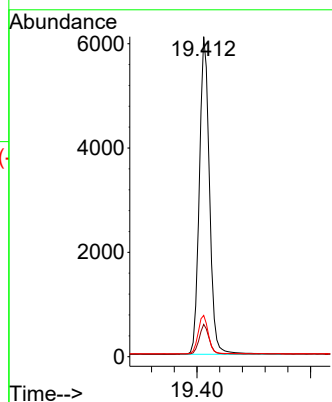
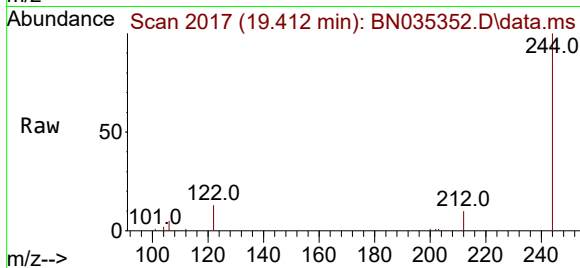
Tgt Ion:244 Resp: 7533

Ion Ratio Lower Upper

244 100

212 10.1 8.1 12.1

122 12.9 10.3 15.5



#32

Benzo(a)anthracene

Concen: 0.389 ng

RT: 20.956 min Scan# 2251

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

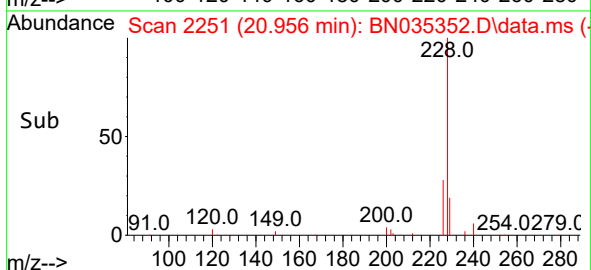
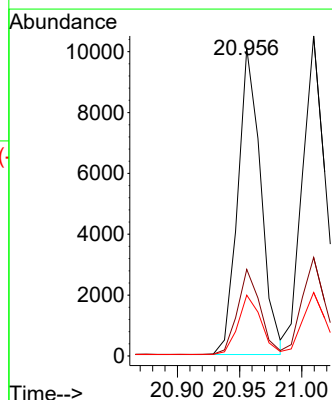
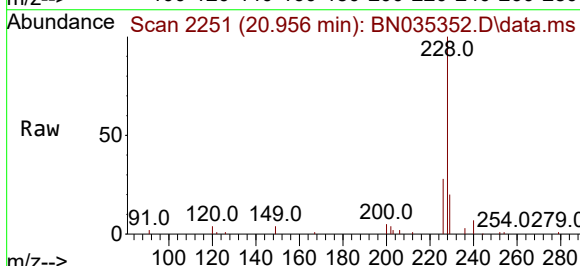
Tgt Ion:228 Resp: 12908

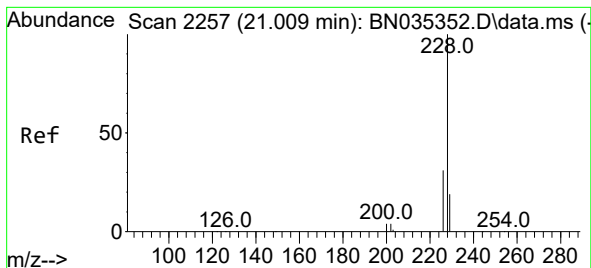
Ion Ratio Lower Upper

228 100

226 28.1 22.5 33.7

229 19.8 15.8 23.8





#33

Chrysene

Concen: 0.418 ng

RT: 21.009 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

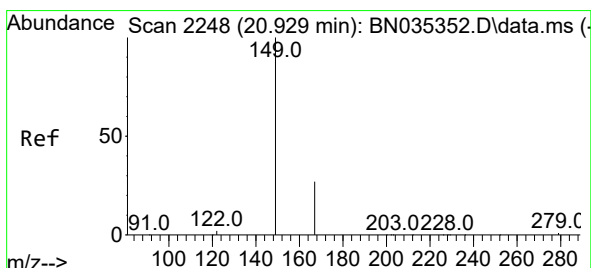
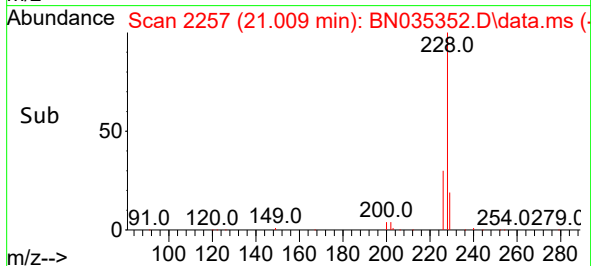
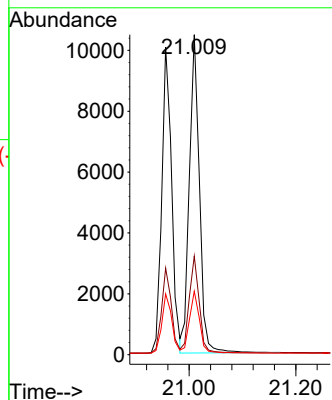
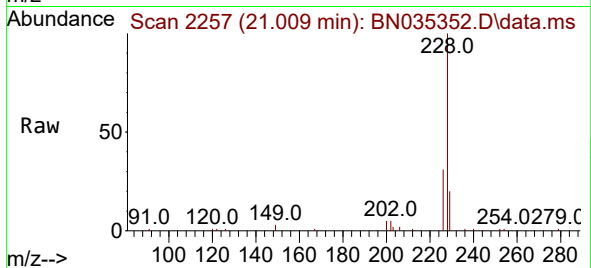
Tgt Ion:228 Resp: 13729

Ion Ratio Lower Upper

228 100

226 30.8 24.6 37.0

229 19.9 15.9 23.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.282 ng

RT: 20.929 min Scan# 2248

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

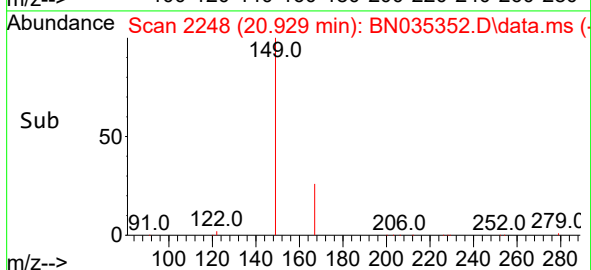
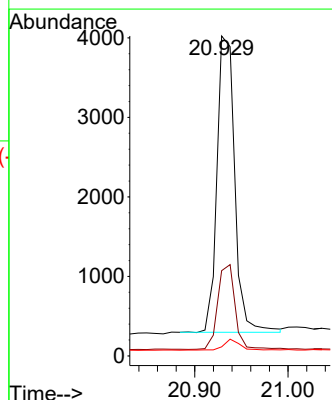
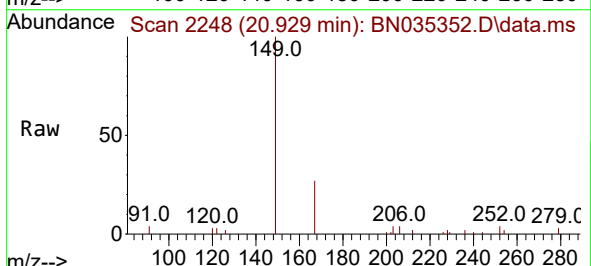
Tgt Ion:149 Resp: 4912

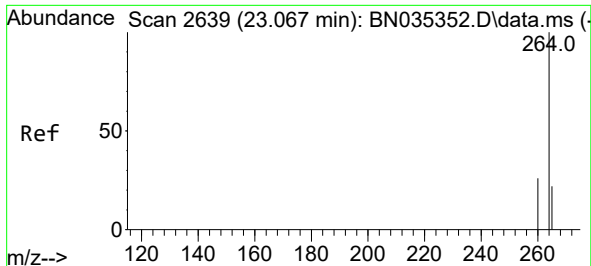
Ion Ratio Lower Upper

149 100

167 27.8 22.2 33.4

279 3.4 2.7 4.1



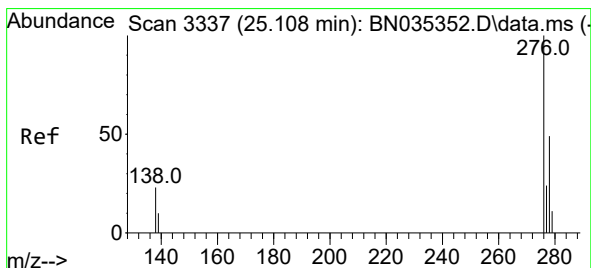
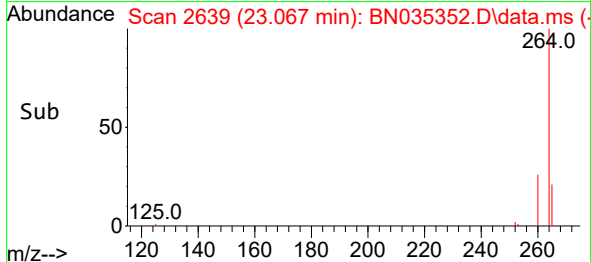
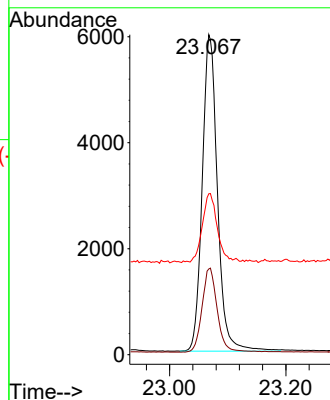
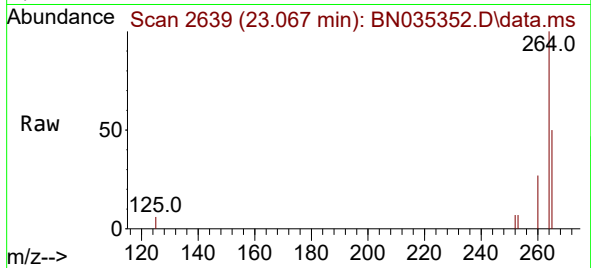


#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.067 min Scan# 2639  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

Tgt Ion:264 Resp: 10842  

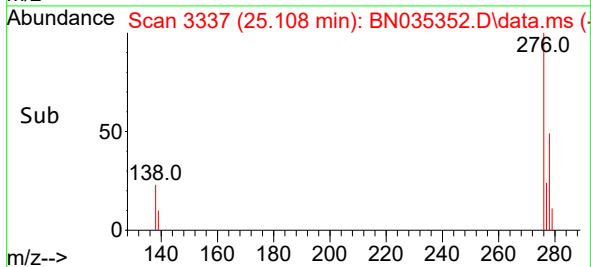
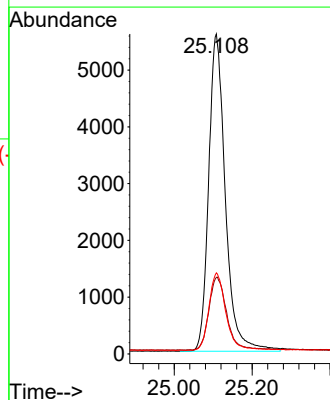
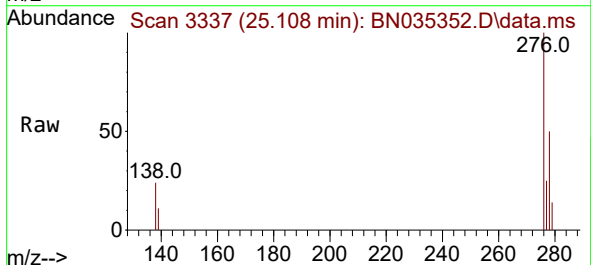
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 26.8  | 21.4  | 32.2  |
| 265 | 50.3  | 40.2  | 60.4  |

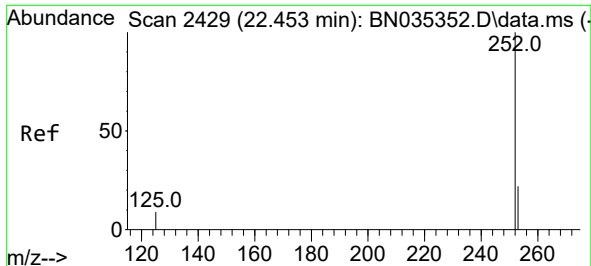


#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.384 ng  
RT: 25.108 min Scan# 3337  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

Tgt Ion:276 Resp: 16615  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100   |       |       |
| 138 | 24.2  | 19.4  | 29.0  |
| 277 | 24.7  | 19.8  | 29.6  |





#37

Benzo(b)fluoranthene

Concen: 0.390 ng

RT: 22.453 min Scan# 2429

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

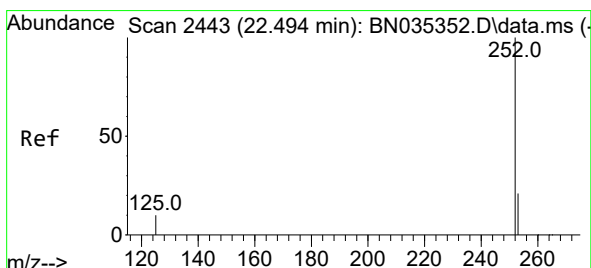
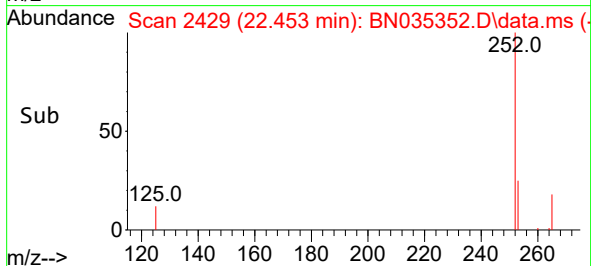
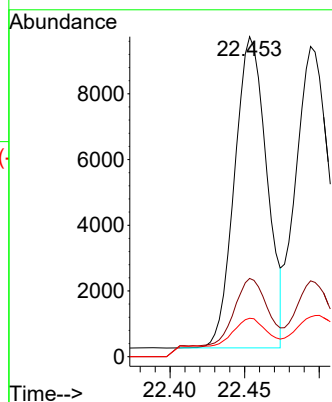
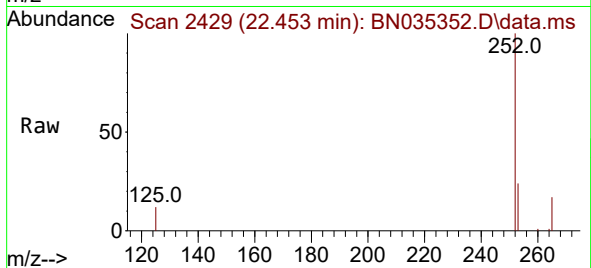
Tgt Ion:252 Resp: 14235

Ion Ratio Lower Upper

252 100

253 24.5 19.6 29.4

125 12.0 9.6 14.4



#38

Benzo(k)fluoranthene

Concen: 0.416 ng

RT: 22.494 min Scan# 2443

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

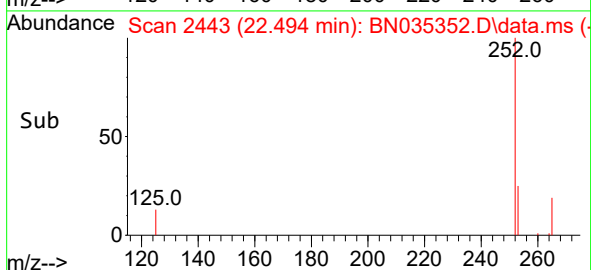
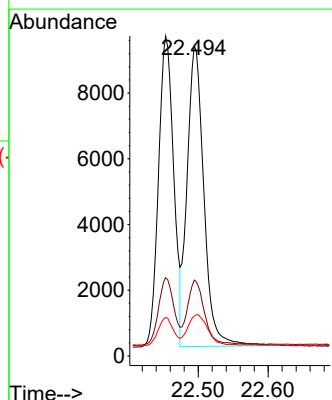
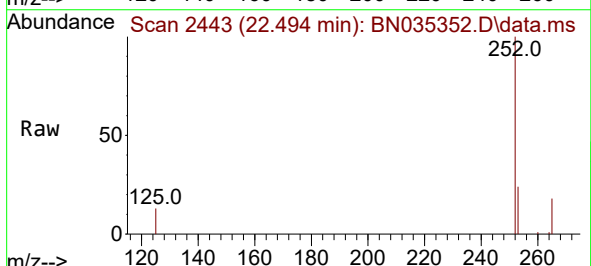
Tgt Ion:252 Resp: 15199

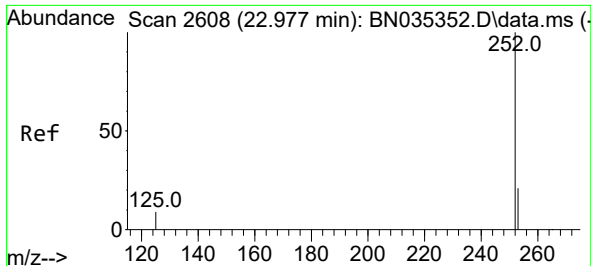
Ion Ratio Lower Upper

252 100

253 24.4 19.5 29.3

125 12.8 10.2 15.4

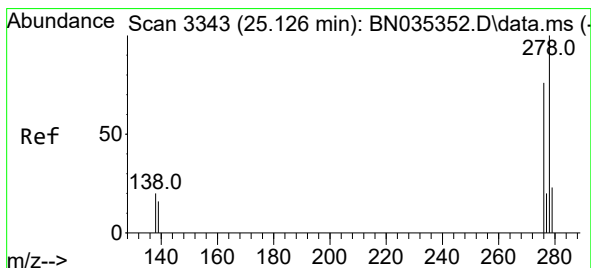
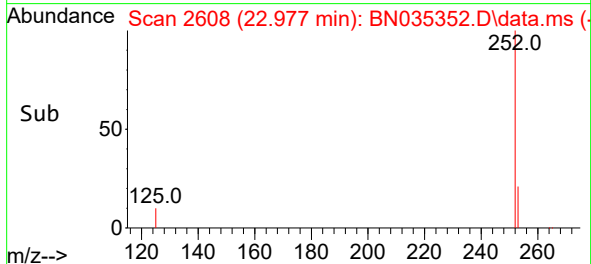
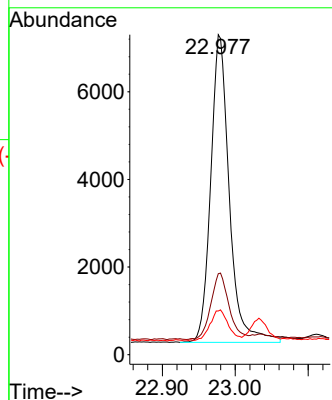
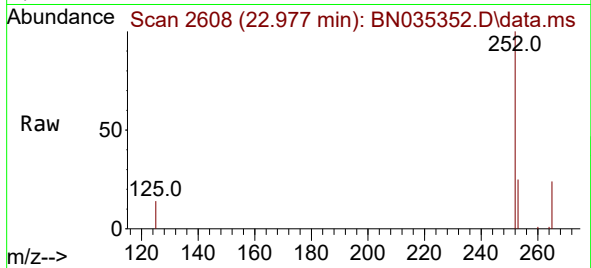




#39  
Benzo(a)pyrene  
Concen: 0.387 ng  
RT: 22.977 min Scan# 2608  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

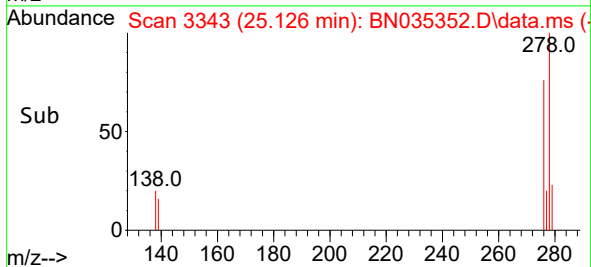
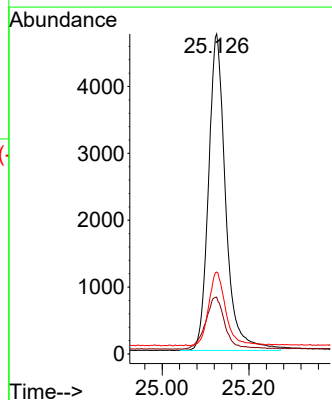
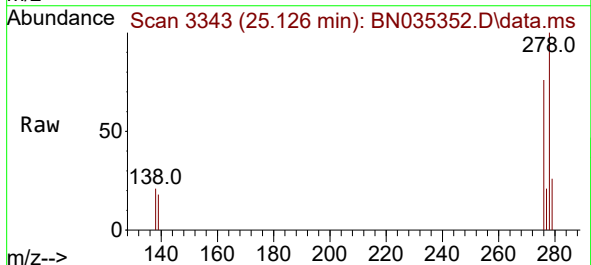
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

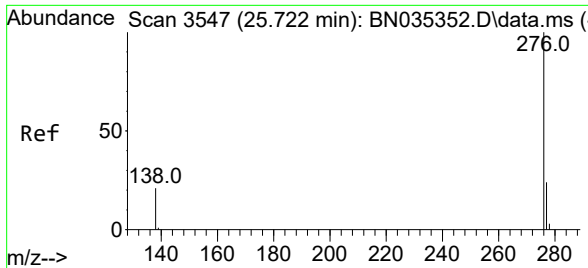
Tgt Ion:252 Resp: 12425  
Ion Ratio Lower Upper  
252 100  
253 25.3 20.2 30.4  
125 13.6 10.9 16.3



#40  
Dibenzo(a,h)anthracene  
Concen: 0.378 ng  
RT: 25.126 min Scan# 3343  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

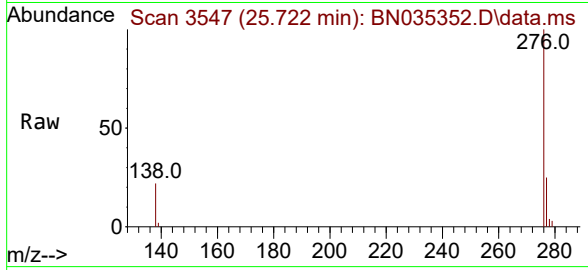
Tgt Ion:278 Resp: 12948  
Ion Ratio Lower Upper  
278 100  
139 17.8 14.2 21.4  
279 25.6 20.5 30.7



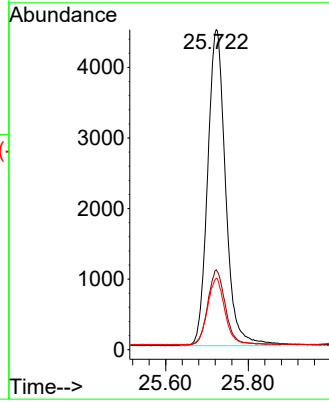
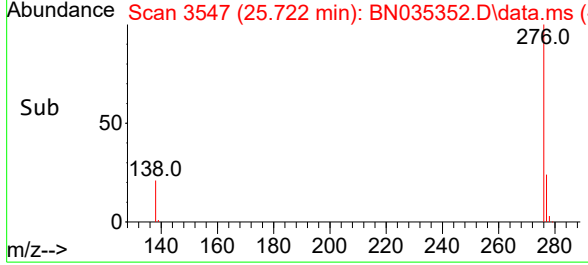


#41  
Benzo(g,h,i)perylene  
Concen: 0.371 ng  
RT: 25.722 min Scan# 31  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 276   | Resp: | 13529 |
| Ion      | Ratio | Lower | Upper |
| 276      | 100   |       |       |
| 277      | 24.9  | 19.9  | 29.9  |
| 138      | 22.3  | 17.8  | 26.8  |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112724\  
 Data File : BN035357.D  
 Acq On : 27 Nov 2024 20:21  
 Operator : RC/JU  
 Sample : SSTDICV0.4  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 ICVBN112724

Quant Time: Nov 27 23:06:03 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Nov 27 23:03:24 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.308  | 152  | 1540     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.052 | 136  | 3904     | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 13.967 | 164  | 2879     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 16.723 | 188  | 7350     | 0.400 | ng    | #-0.01   |
| 29) Chrysene-d12              | 20.974 | 240  | 7576     | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.067 | 264  | 8338     | 0.400 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 4.968  | 112  | 1280     | 0.332 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.513  | 99   | 1437     | 0.310 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.440  | 82   | 1017     | 0.427 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.656 | 152  | 2565     | 0.420 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.475 | 330  | 617      | 0.302 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.574 | 172  | 4647     | 0.427 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 18.785 | 212  | 8415     | 0.404 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.412 | 244  | 6272     | 0.420 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
|                               |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.003  | 88   | 684      | 0.465 | ng    | 99       |
| 3) n-Nitrosodimethylamine     | 3.299  | 42   | 495      | 0.404 | ng    | # 88     |
| 6) bis(2-Chloroethyl)ether    | 6.759  | 93   | 1676     | 0.430 | ng    | 99       |
| 9) Naphthalene                | 10.105 | 128  | 4364     | 0.424 | ng    | 99       |
| 10) Hexachlorobutadiene       | 10.404 | 225  | 1005     | 0.423 | ng    | # 100    |
| 12) 2-Methylnaphthalene       | 11.732 | 142  | 3157     | 0.428 | ng    | 98       |
| 16) Acenaphthylene            | 13.679 | 152  | 5261     | 0.435 | ng    | 100      |
| 17) Acenaphthene              | 14.031 | 154  | 3421     | 0.426 | ng    | 99       |
| 18) Fluorene                  | 15.026 | 166  | 4825     | 0.420 | ng    | 99       |
| 20) 4,6-Dinitro-2-methylph... | 15.132 | 198  | 263      | 0.364 | ng    | # 86     |
| 21) 4-Bromophenyl-phenylether | 15.941 | 248  | 1742     | 0.405 | ng    | 99       |
| 22) Hexachlorobenzene         | 16.040 | 284  | 2151     | 0.426 | ng    | 99       |
| 23) Atrazine                  | 16.227 | 200  | 1227     | 0.401 | ng    | 99       |
| 24) Pentachlorophenol         | 16.400 | 266  | 662      | 0.301 | ng    | # 83     |
| 25) Phenanthrene              | 16.773 | 178  | 8509     | 0.421 | ng    | 100      |
| 26) Anthracene                | 16.860 | 178  | 7849     | 0.430 | ng    | 100      |
| 28) Fluoranthene              | 18.812 | 202  | 10941    | 0.402 | ng    | 100      |
| 30) Pyrene                    | 19.179 | 202  | 11476    | 0.410 | ng    | 100      |
| 32) Benzo(a)anthracene        | 20.956 | 228  | 10934    | 0.413 | ng    | 100      |
| 33) Chrysene                  | 21.009 | 228  | 11926    | 0.436 | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 20.929 | 149  | 4016     | 0.384 | ng    | 100      |
| 36) Indeno(1,2,3-cd)pyrene    | 25.105 | 276  | 14433    | 0.443 | ng    | 99       |
| 37) Benzo(b)fluoranthene      | 22.453 | 252  | 12988    | 0.426 | ng    | 99       |
| 38) Benzo(k)fluoranthene      | 22.494 | 252  | 12669    | 0.422 | ng    | 99       |
| 39) Benzo(a)pyrene            | 22.974 | 252  | 11094    | 0.442 | ng    | 99       |
| 40) Dibenzo(a,h)anthracene    | 25.123 | 278  | 11141    | 0.433 | ng    | 100      |
| 41) Benzo(g,h,i)perylene      | 25.722 | 276  | 10870    | 0.404 | ng    | 99       |
| -----                         |        |      |          |       |       |          |

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

**Instrument :**  
BNA\_N  
**ClientSampleId :**  
ICVBN112724

Abundance

TIC: BN035357.D\data.ms

Time-->

20000

19000

18000

17000

16000

15000

14000

13000

12000

11000

10000

9000

8000

7000

6000

5000

4000

3000

2000

1000

0

4.00

6.00

8.00

10.00

12.00

14.00

16.00

18.00

20.00

22.00

24.00

26.00

28.00

1,4-Dioxane

n-Nitrosodimethylamine

2-Fluorophenol,S

Phenol-d6,S

bis(2-Chloroethyl)ether

1,4-Dichlorobenzene-d4,l

Nitrobenzene-d5,S

Hexachlorobutadiene

Naphthalene

2-Methylnaphthalene-d10,S

2-Fluorobiphenyl,S

Acenaphthylene

Acenaphthene

Fluorene

4,6-Dinitro-2-methylphenol

2,4,6-Tribromophenol,S

Hexachlorobiphenyl-phenylether

Anthracene

Phenanthrene

Fluoranthene

Pyrene

Terphenyl-d14,S

Bis(2-ethylhexyl)phthalate

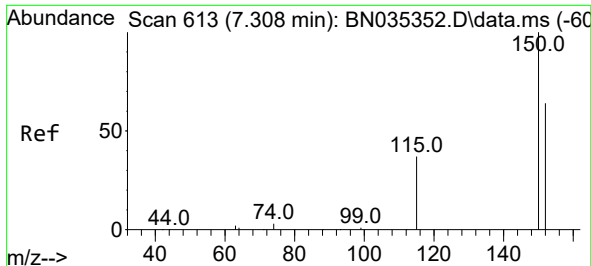
Chrysene-d12,l

Benzo(a)fluoranthene

Benzo(a)pyrene,C

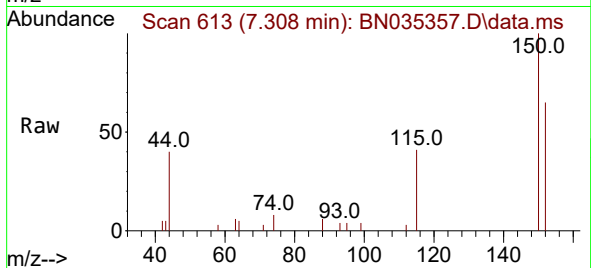
Benzo(g,h,i)perylene



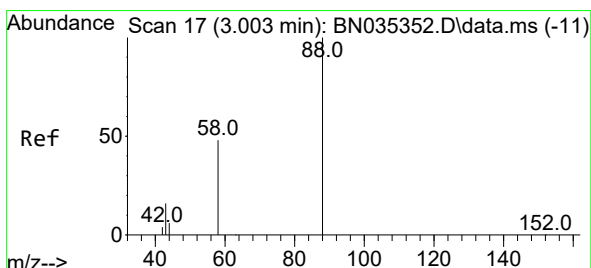
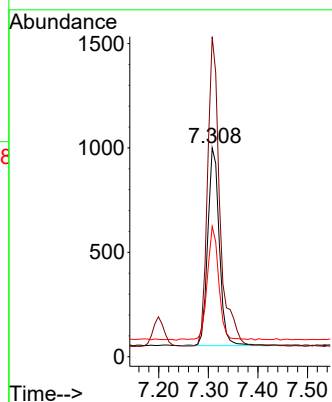
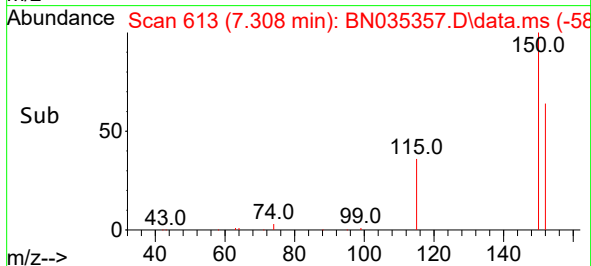


#1  
 1,4-Dichlorobenzene-d4  
 Concen: 0.400 ng  
 RT: 7.308 min Scan# 61  
 Delta R.T. -0.000 min  
 Lab File: BN035357.D  
 Acq: 27 Nov 2024 20:21

Instrument :  
 BNA\_N  
 ClientSampleId :  
 ICVBN112724

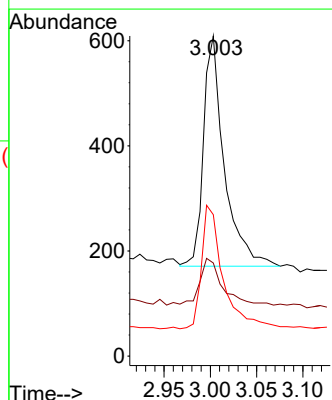
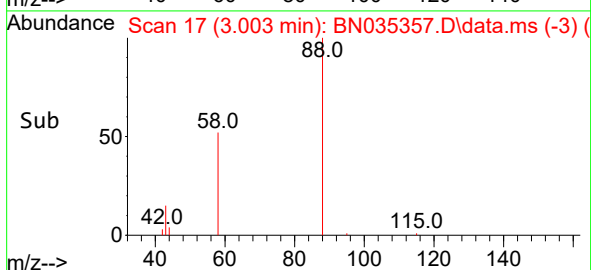
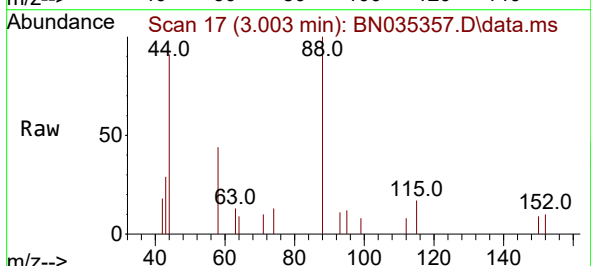


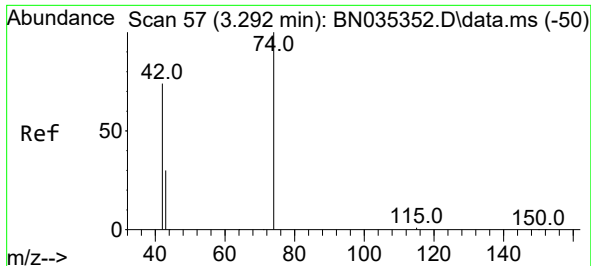
Tgt Ion:152 Resp: 1540  
 Ion Ratio Lower Upper  
 152 100  
 150 153.3 124.0 186.0  
 115 62.4 49.6 74.4



#2  
 1,4-Dioxane  
 Concen: 0.465 ng  
 RT: 3.003 min Scan# 17  
 Delta R.T. -0.000 min  
 Lab File: BN035357.D  
 Acq: 27 Nov 2024 20:21

Tgt Ion: 88 Resp: 684  
 Ion Ratio Lower Upper  
 88 100  
 43 21.8 17.2 25.8  
 58 56.0 44.5 66.7

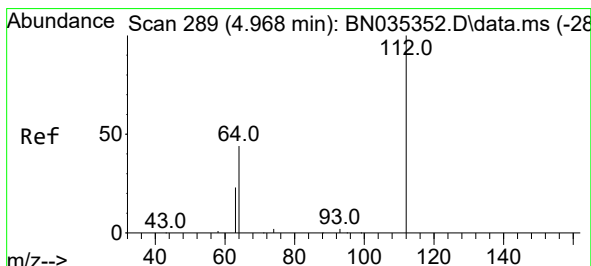
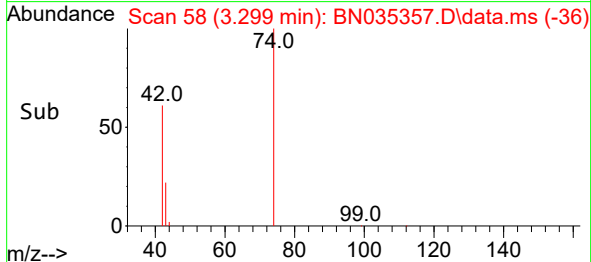
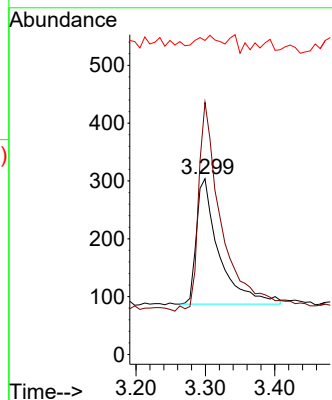
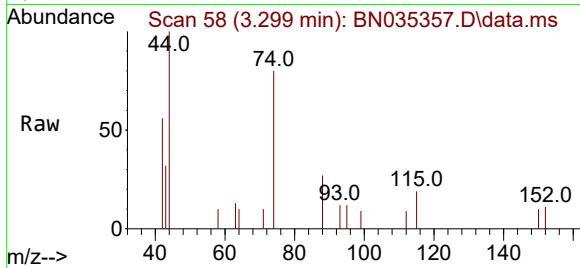




#3  
n-Nitrosodimethylamine  
Concen: 0.404 ng  
RT: 3.299 min Scan# 51  
Delta R.T. 0.007 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

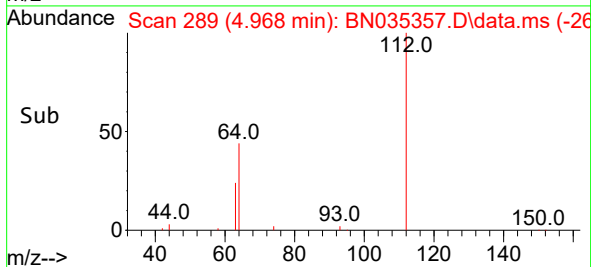
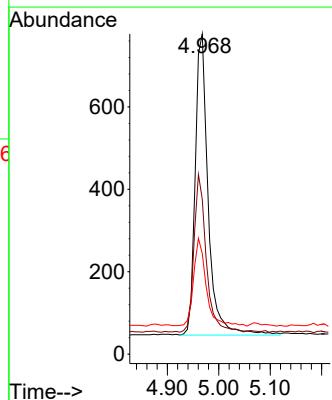
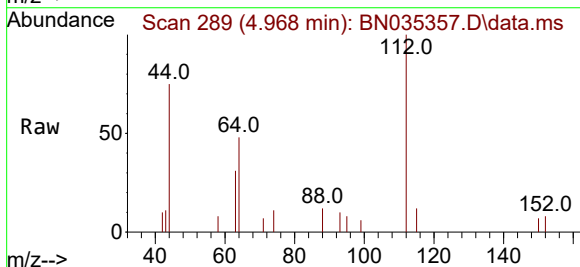
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112724

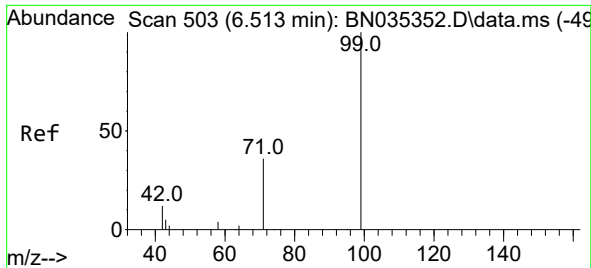
Tgt Ion: 42 Resp: 495  
Ion Ratio Lower Upper  
42 100  
74 172.1 124.9 187.3  
44 6.3 2.2 3.4#



#4  
2-Fluorophenol  
Concen: 0.332 ng  
RT: 4.968 min Scan# 289  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

Tgt Ion: 112 Resp: 1280  
Ion Ratio Lower Upper  
112 100  
64 49.0 39.8 59.8  
63 28.4 21.0 31.6

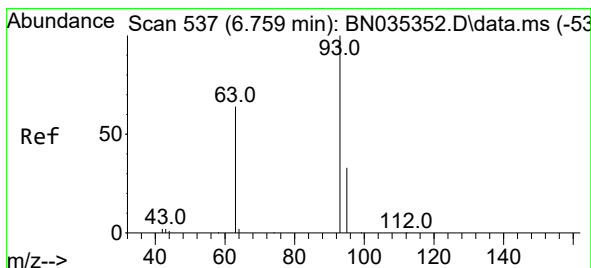
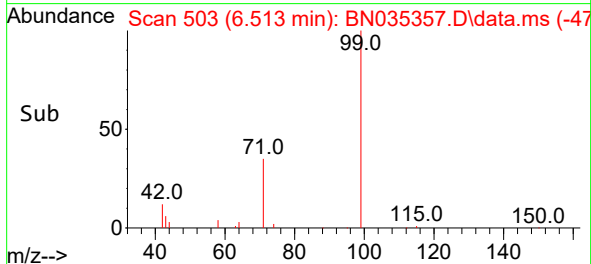
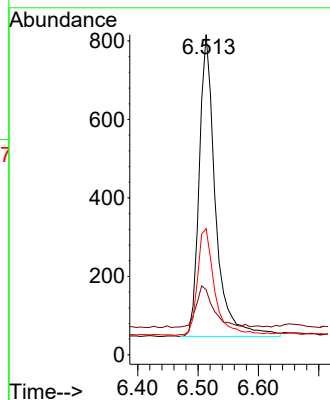
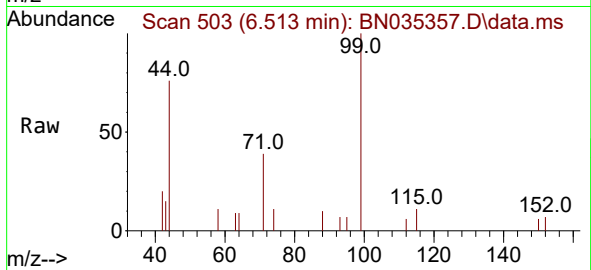




#5  
Phenol-d6  
Concen: 0.310 ng  
RT: 6.513 min Scan# 503  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

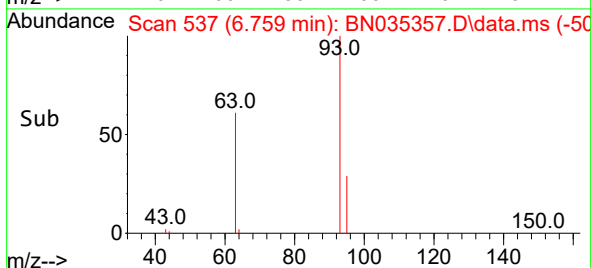
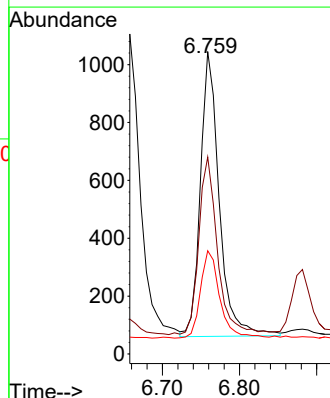
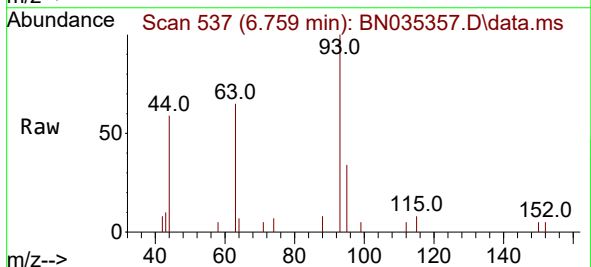
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112724

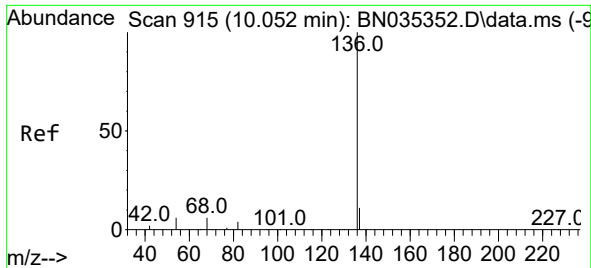
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 99    | Resp: | 1437  |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 13.9  | 11.4  | 17.2  |
| 71       | 37.2  | 29.3  | 43.9  |



#6  
bis(2-Chloroethyl)ether  
Concen: 0.430 ng  
RT: 6.759 min Scan# 537  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 93    | Resp: | 1676  |
| Ion      | Ratio | Lower | Upper |
| 93       | 100   |       |       |
| 63       | 62.1  | 50.4  | 75.6  |
| 95       | 31.4  | 25.7  | 38.5  |

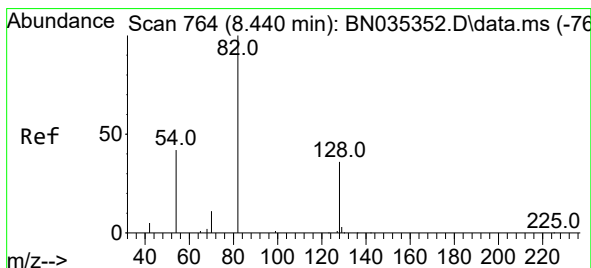
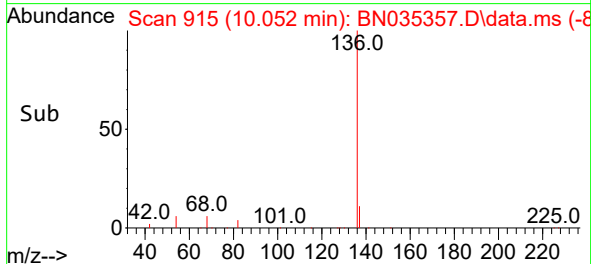
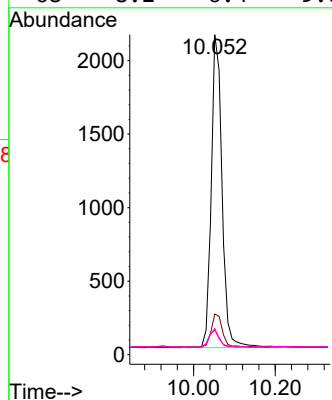
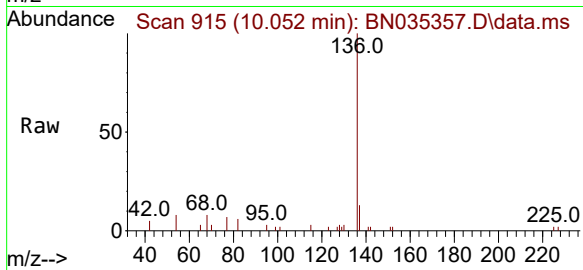




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.052 min Scan# 915  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

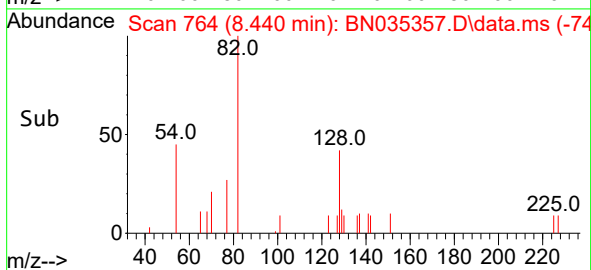
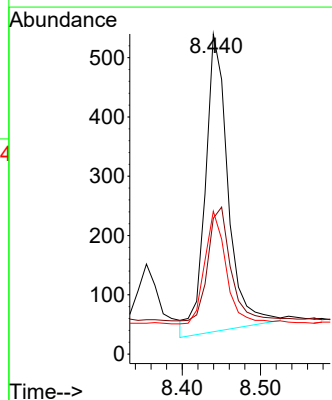
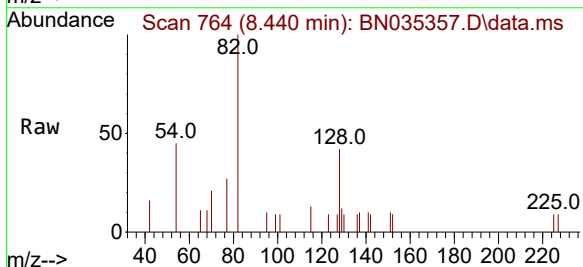
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ClientSampleId :  
ICVBN112724

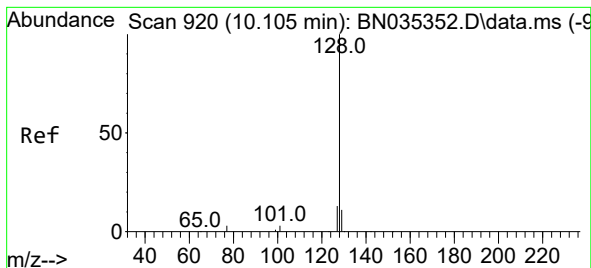
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 136   | Resp: | 3904 |
| Ion Ratio | Lower | Upper |      |
| 136       | 100   |       |      |
| 137       | 12.7  | 10.2  | 15.2 |
| 54        | 7.7   | 6.1   | 9.1  |
| 68        | 8.2   | 6.4   | 9.6  |



#8  
Nitrobenzene-d5  
Concen: 0.427 ng  
RT: 8.440 min Scan# 764  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 82    | Resp: | 1017 |
| Ion Ratio | Lower | Upper |      |
| 82        | 100   |       |      |
| 128       | 42.4  | 33.4  | 50.0 |
| 54        | 44.6  | 36.7  | 55.1 |





#9

Naphthalene

Concen: 0.424 ng

RT: 10.105 min Scan# 91

Delta R.T. -0.000 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

Instrument :

BNA\_N

ClientSampleId :

ICVBN112724

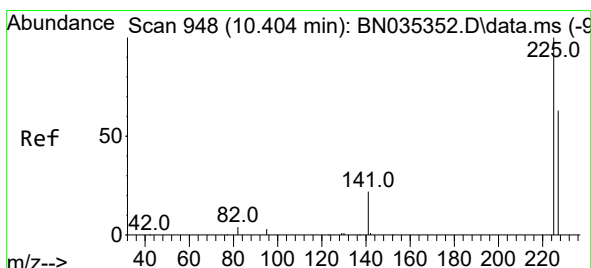
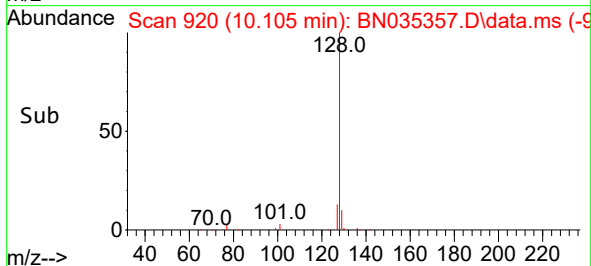
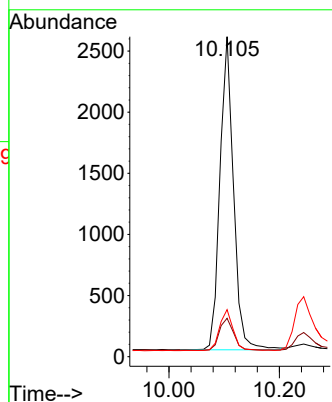
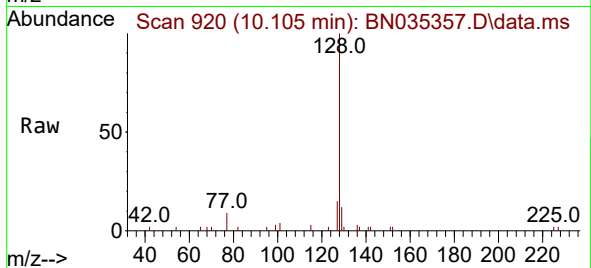
Tgt Ion:128 Resp: 4364

Ion Ratio Lower Upper

128 100

129 12.0 9.8 14.6

127 14.7 11.4 17.2



#10

Hexachlorobutadiene

Concen: 0.423 ng

RT: 10.404 min Scan# 948

Delta R.T. -0.000 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

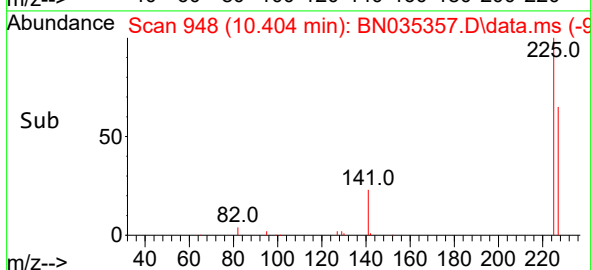
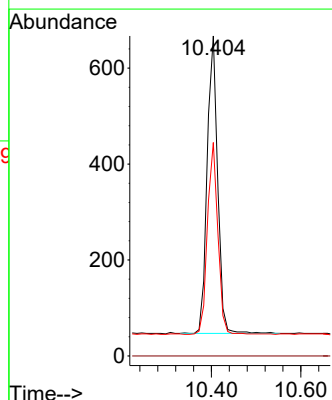
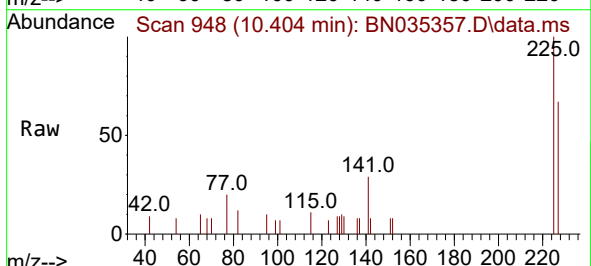
Tgt Ion:225 Resp: 1005

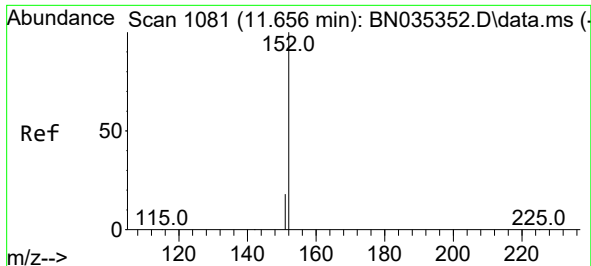
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 64.3 51.3 76.9

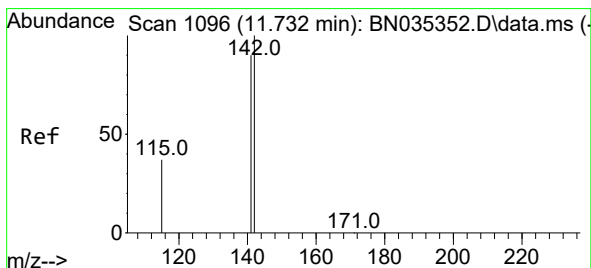
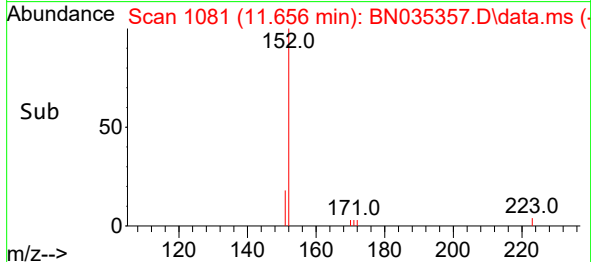
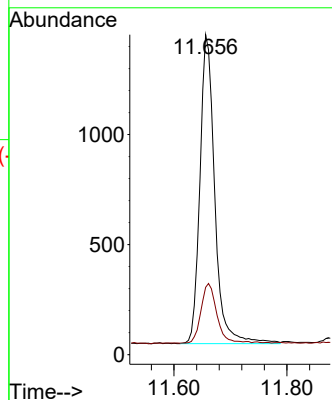
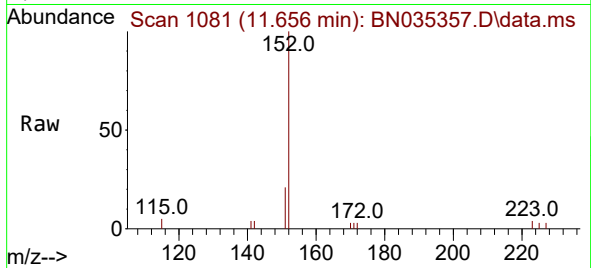




#11  
2-Methylnaphthalene-d10  
Concen: 0.420 ng  
RT: 11.656 min Scan# 1081  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

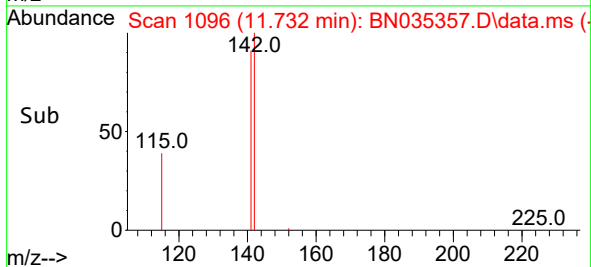
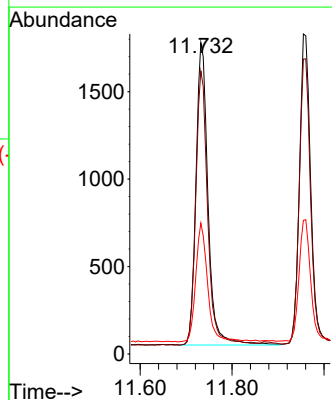
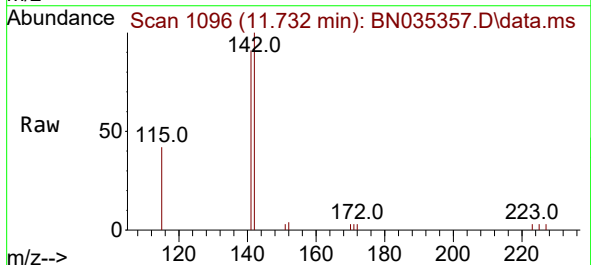
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ClientSampleId :  
ICVBN112724

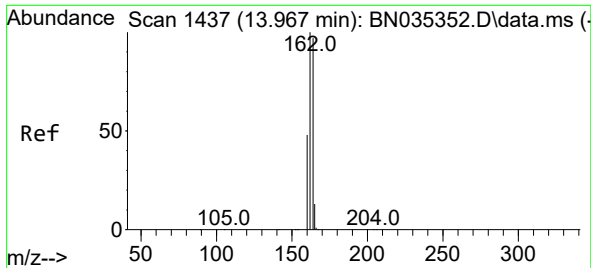
Tgt Ion:152 Resp: 2565  
Ion Ratio Lower Upper  
152 100  
151 20.5 16.6 25.0



#12  
2-Methylnaphthalene  
Concen: 0.428 ng  
RT: 11.732 min Scan# 1096  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

Tgt Ion:142 Resp: 3157  
Ion Ratio Lower Upper  
142 100  
141 90.9 72.2 108.4  
115 42.0 31.4 47.0

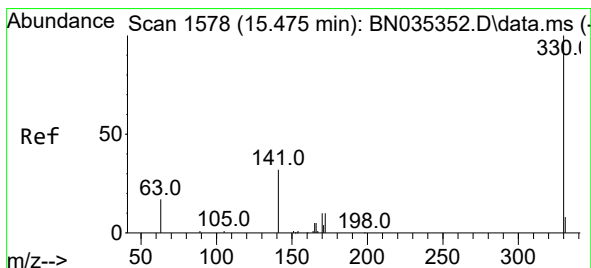
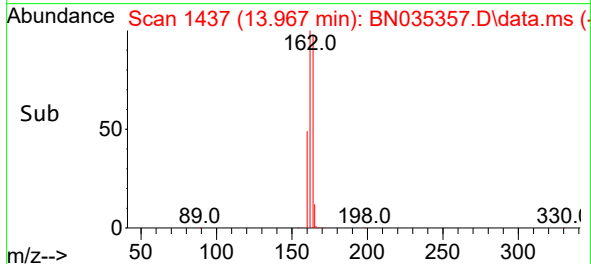
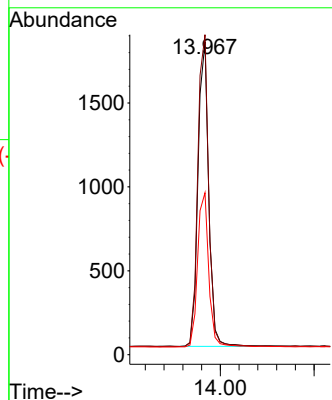
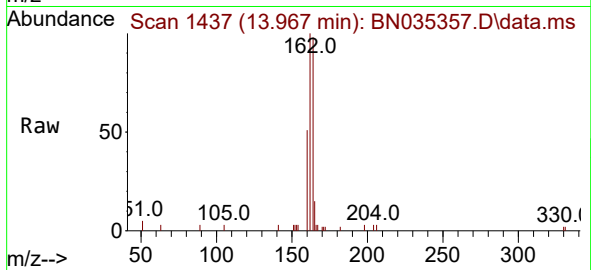




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.967 min Scan# 1437  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

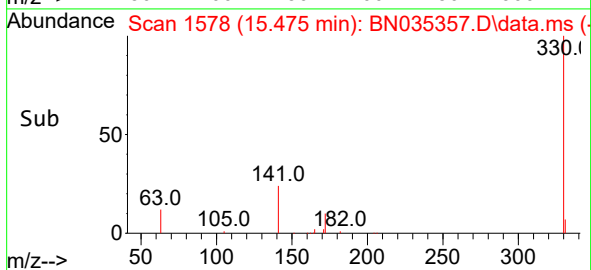
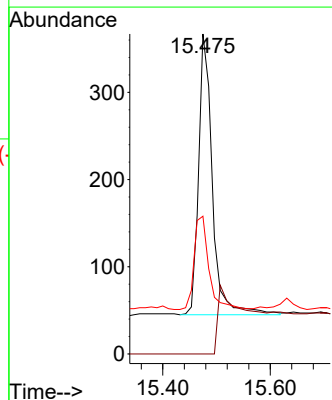
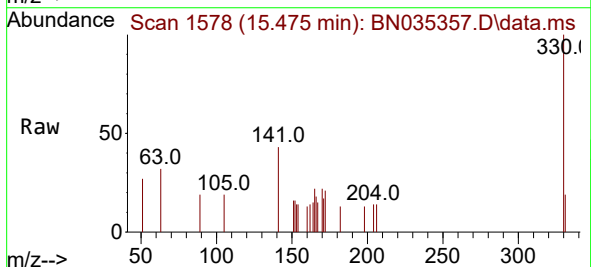
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112724

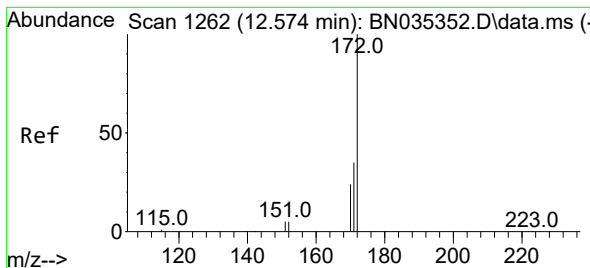
Tgt Ion:164 Resp: 2879  
Ion Ratio Lower Upper  
164 100  
162 102.3 82.2 123.2  
160 51.8 40.1 60.1



#14  
2,4,6-Tribromophenol  
Concen: 0.302 ng  
RT: 15.475 min Scan# 1578  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

Tgt Ion:330 Resp: 617  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 34.7 26.6 40.0

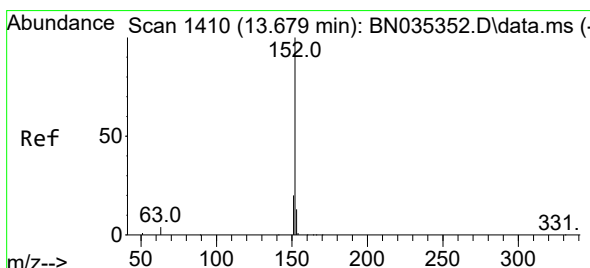
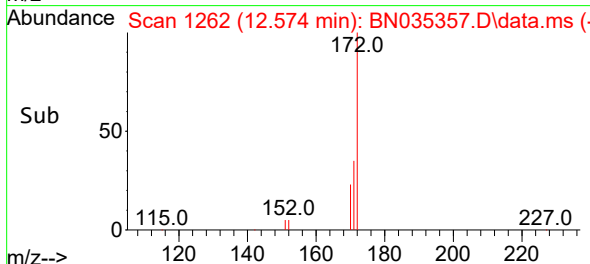
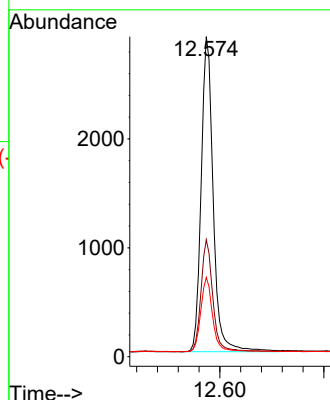
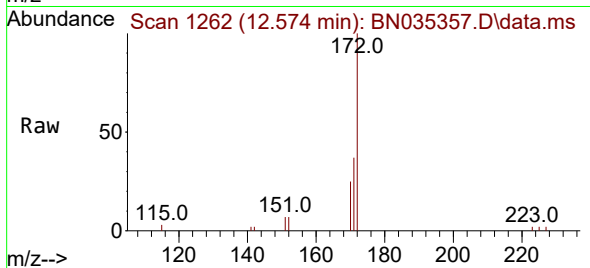




#15  
2-Fluorobiphenyl  
Concen: 0.427 ng  
RT: 12.574 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

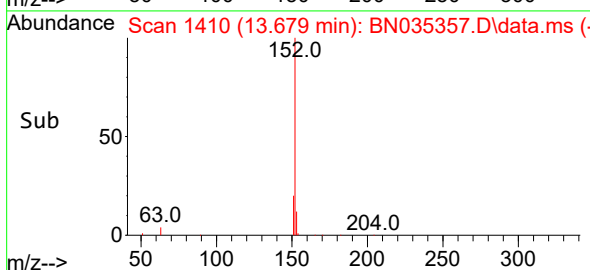
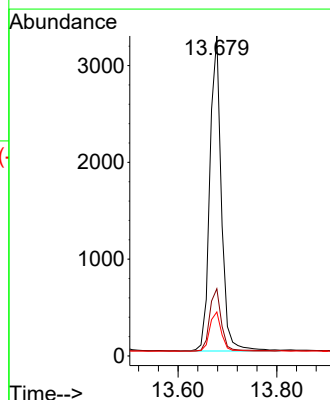
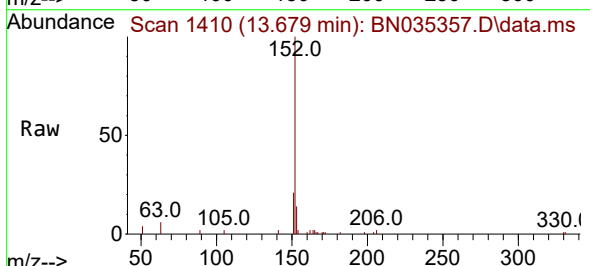
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112724

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 172   | Resp: | 4647  |
| Ion      | Ratio | Lower | Upper |
| 172      | 100   |       |       |
| 171      | 36.5  | 29.0  | 43.4  |
| 170      | 24.7  | 19.8  | 29.8  |

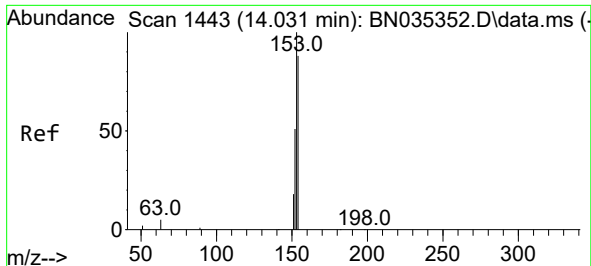


#16  
Acenaphthylene  
Concen: 0.435 ng  
RT: 13.679 min Scan# 1410  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 152   | Resp: | 5261  |
| Ion      | Ratio | Lower | Upper |
| 152      | 100   |       |       |
| 151      | 20.1  | 16.2  | 24.2  |
| 153      | 12.7  | 10.4  | 15.6  |



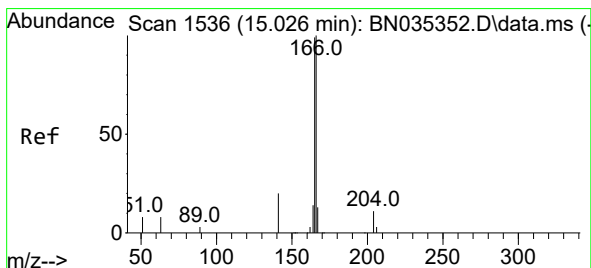
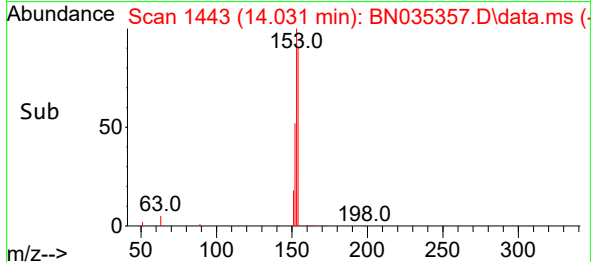
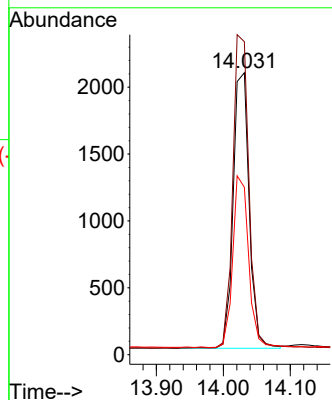
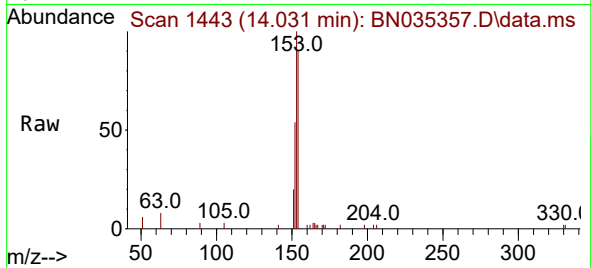




#17  
Acenaphthene  
Concen: 0.426 ng  
RT: 14.031 min Scan# 1443  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

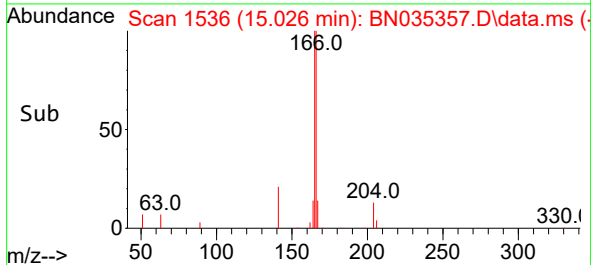
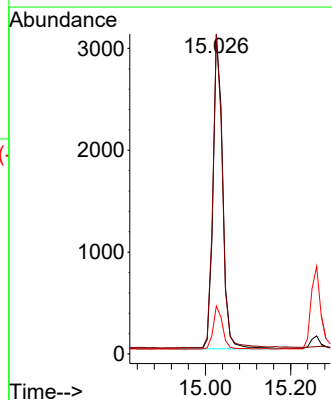
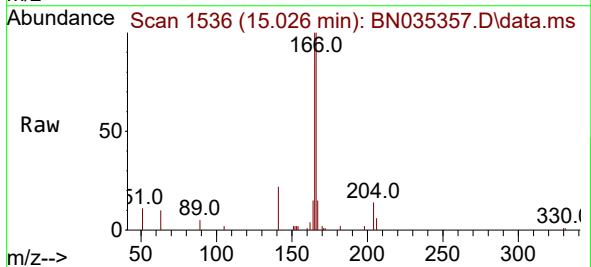
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112724

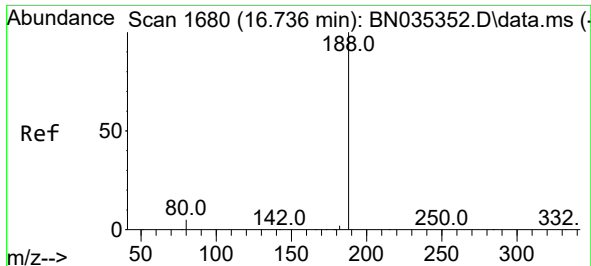
Tgt Ion:154 Resp: 3421  
Ion Ratio Lower Upper  
154 100  
153 115.4 92.6 139.0  
152 61.9 49.0 73.6



#18  
Fluorene  
Concen: 0.420 ng  
RT: 15.026 min Scan# 1536  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

Tgt Ion:166 Resp: 4825  
Ion Ratio Lower Upper  
166 100  
165 98.4 79.7 119.5  
167 13.6 10.8 16.2

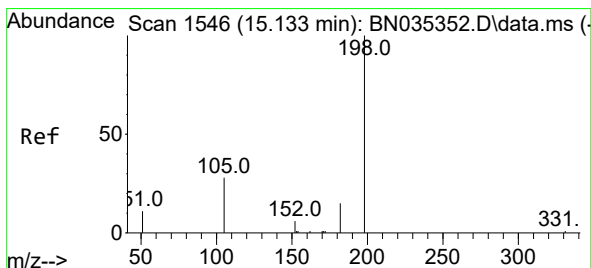
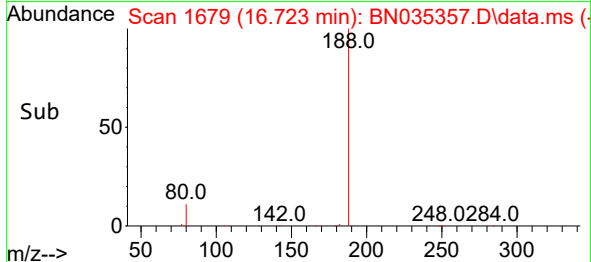
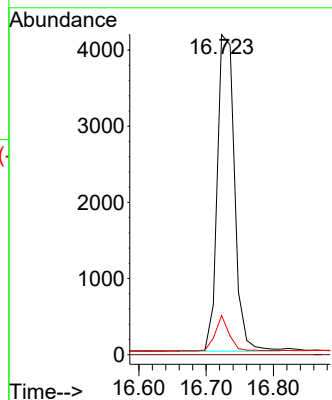
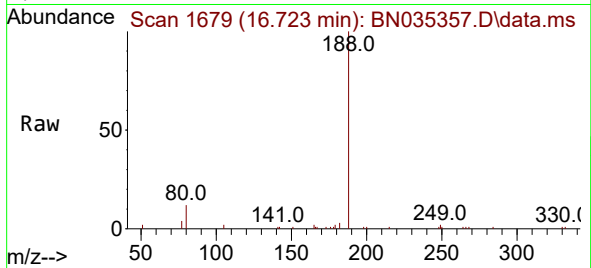




#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 16.723 min Scan# 1679  
Delta R.T. -0.012 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

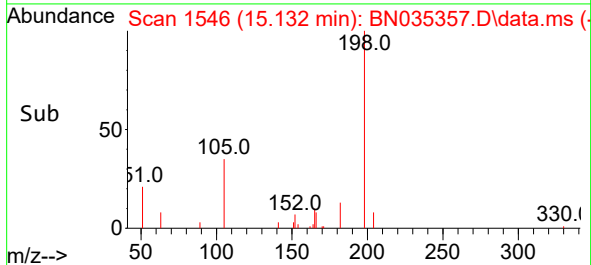
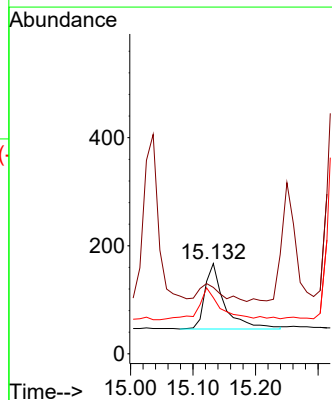
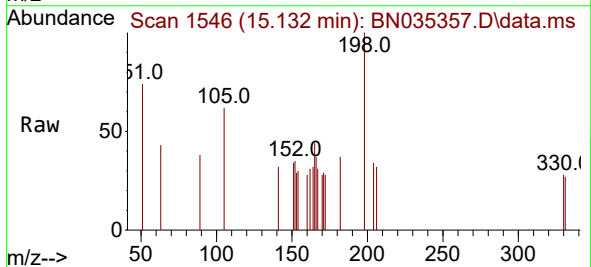
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112724

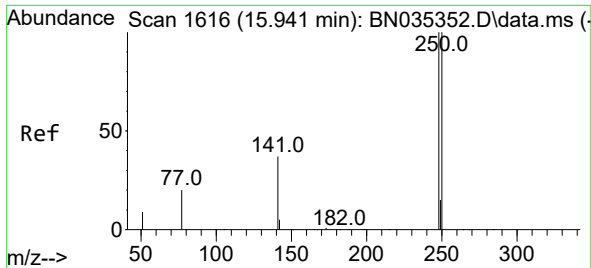
Tgt Ion:188 Resp: 7350  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 12.2 4.6 6.8#



#20  
4,6-Dinitro-2-methylphenol  
Concen: 0.364 ng  
RT: 15.132 min Scan# 1546  
Delta R.T. -0.001 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

Tgt Ion:198 Resp: 263  
Ion Ratio Lower Upper  
198 100  
51 73.7 46.5 69.7#  
105 62.3 45.3 67.9

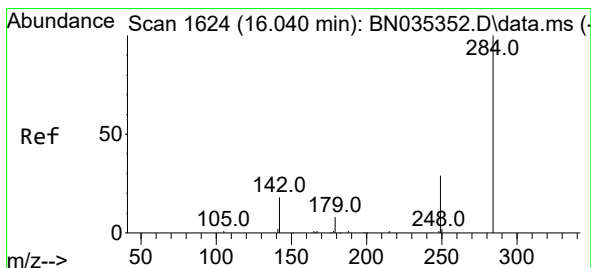
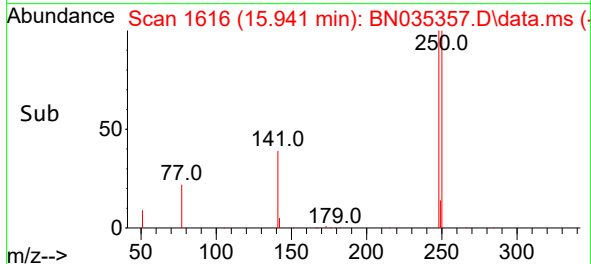
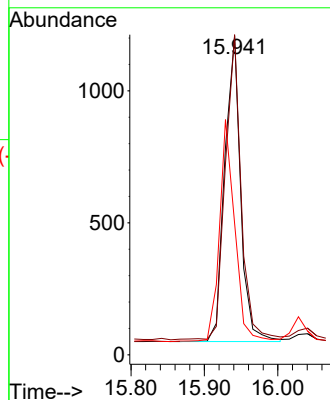
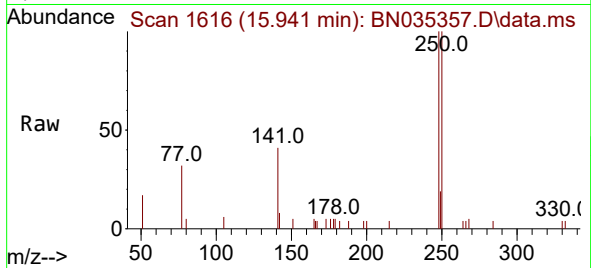




#21  
4-Bromophenyl-phenylether  
Concen: 0.405 ng  
RT: 15.941 min Scan# 1616  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

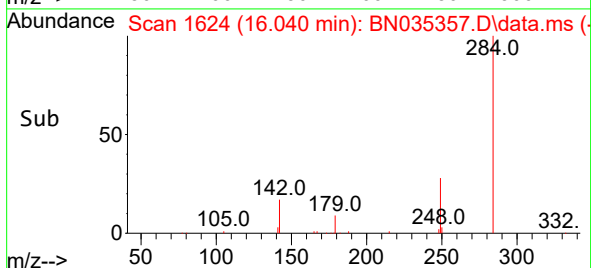
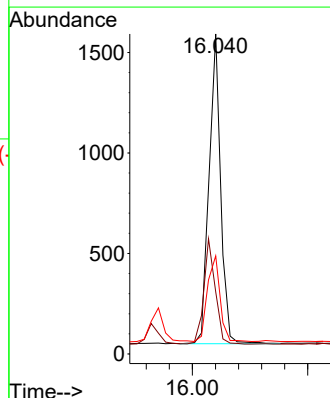
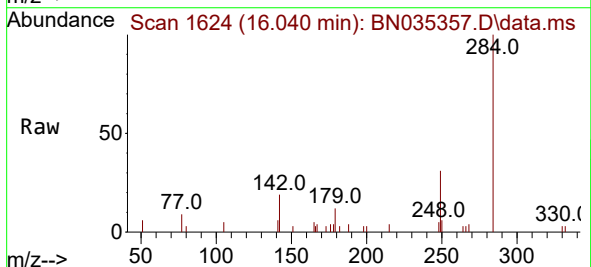
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112724

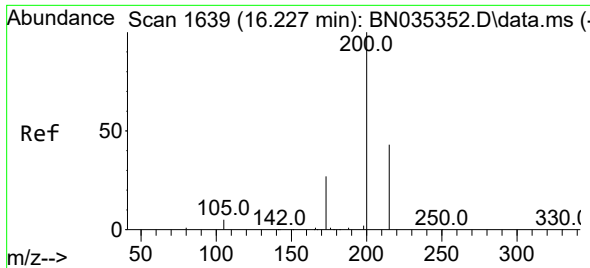
Tgt Ion:248 Resp: 1742  
Ion Ratio Lower Upper  
248 100  
250 100.3 80.6 120.8  
141 41.2 31.5 47.3



#22  
Hexachlorobenzene  
Concen: 0.426 ng  
RT: 16.040 min Scan# 1624  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

Tgt Ion:284 Resp: 2151  
Ion Ratio Lower Upper  
284 100  
142 33.5 26.7 40.1  
249 30.0 24.6 36.8

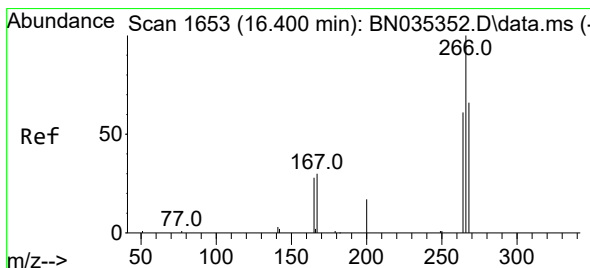
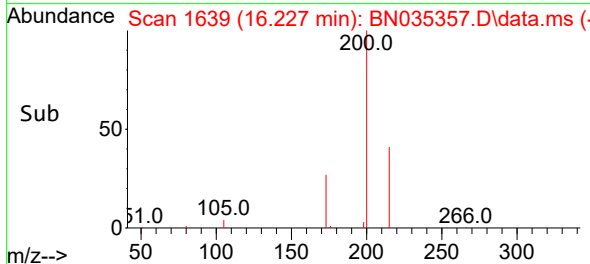
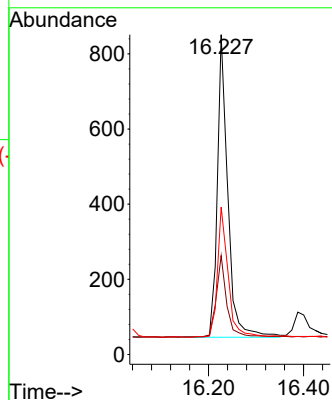
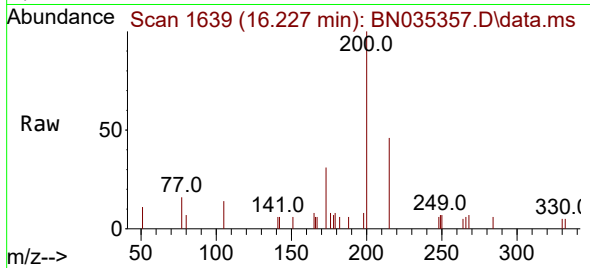




#23  
 Atrazine  
 Concen: 0.401 ng  
 RT: 16.227 min Scan# 1639  
 Delta R.T. -0.000 min  
 Lab File: BN035357.D  
 Acq: 27 Nov 2024 20:21

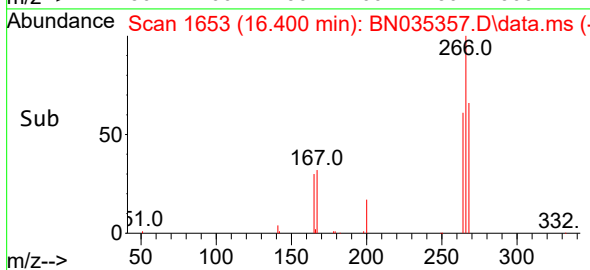
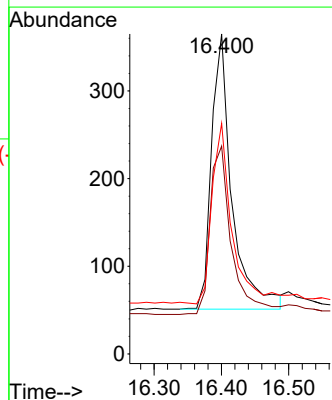
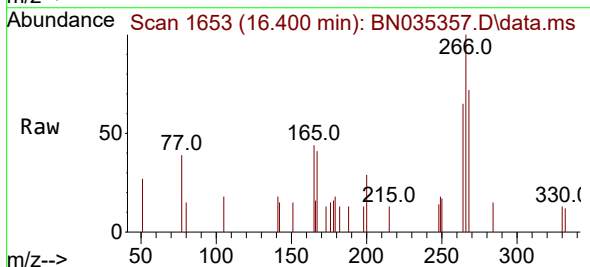
Instrument :  
 BNA\_N  
 ClientSampleId :  
 ICVBN112724

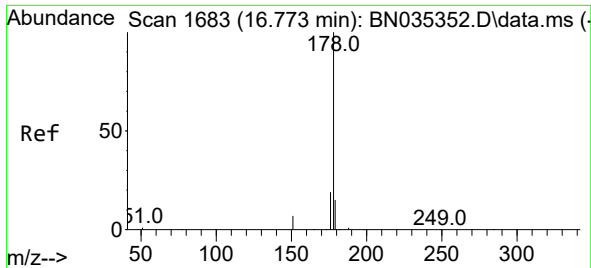
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 200   | Resp: | 1227 |
| Ion Ratio | Lower | Upper |      |
| 200       | 100   |       |      |
| 173       | 30.9  | 24.1  | 36.1 |
| 215       | 46.1  | 36.9  | 55.3 |



#24  
 Pentachlorophenol  
 Concen: 0.301 ng  
 RT: 16.400 min Scan# 1653  
 Delta R.T. -0.000 min  
 Lab File: BN035357.D  
 Acq: 27 Nov 2024 20:21

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 266   | Resp: | 662   |
| Ion Ratio | Lower | Upper |       |
| 266       | 100   |       |       |
| 264       | 65.0  | 42.3  | 63.5# |
| 268       | 66.8  | 43.3  | 64.9# |

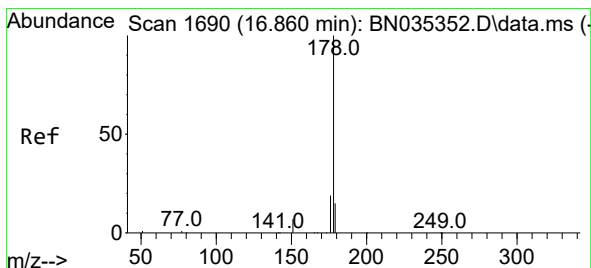
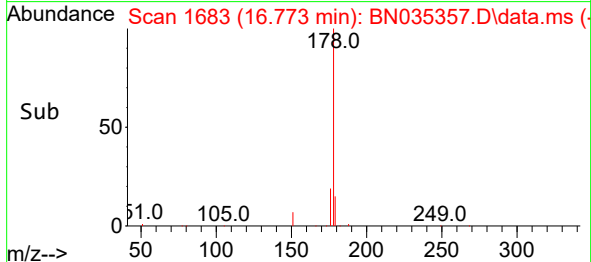
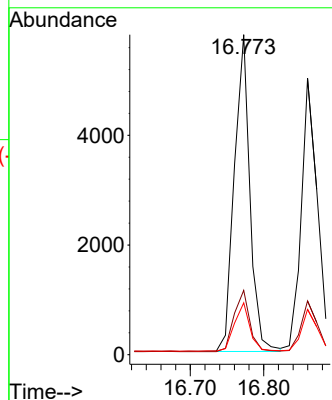
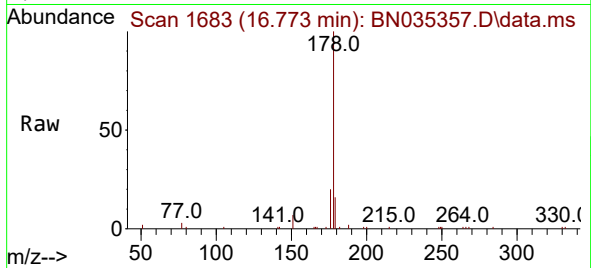




#25  
Phenanthrene  
Concen: 0.421 ng  
RT: 16.773 min Scan# 1683  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

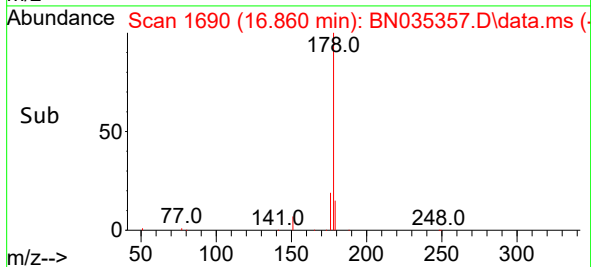
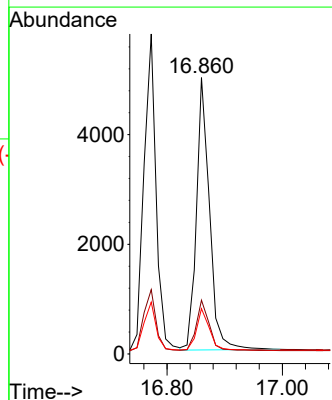
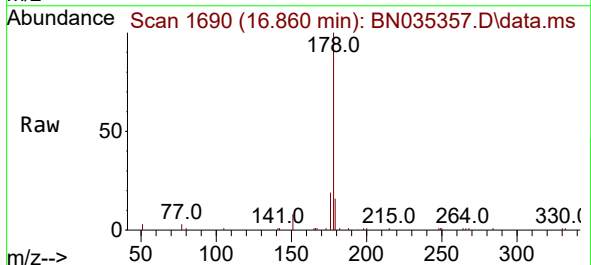
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112724

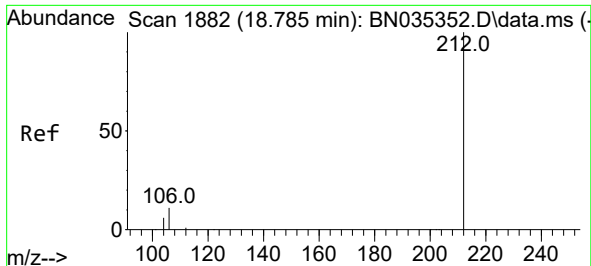
Tgt Ion:178 Resp: 8509  
Ion Ratio Lower Upper  
178 100  
176 19.6 15.4 23.2  
179 15.4 12.3 18.5



#26  
Anthracene  
Concen: 0.430 ng  
RT: 16.860 min Scan# 1690  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

Tgt Ion:178 Resp: 7849  
Ion Ratio Lower Upper  
178 100  
176 18.8 15.0 22.6  
179 15.3 12.6 18.8

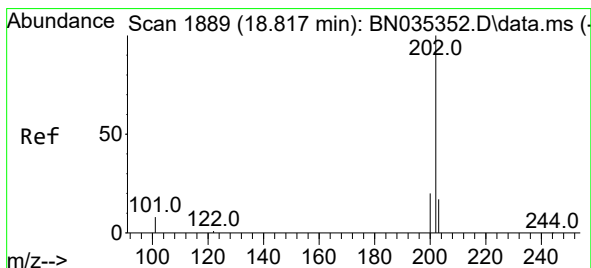
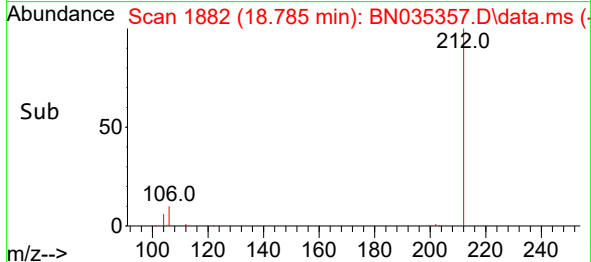
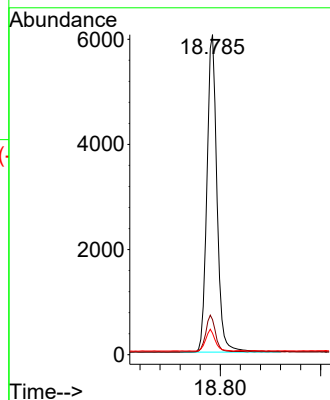
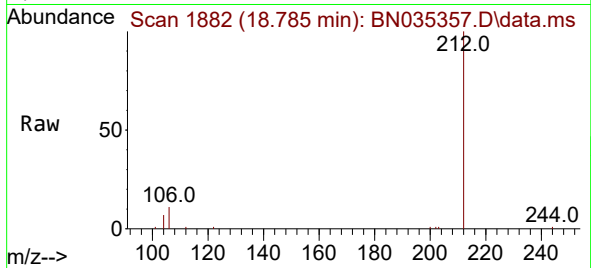




#27  
Fluoranthene-d10  
Concen: 0.404 ng  
RT: 18.785 min Scan# 1882  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

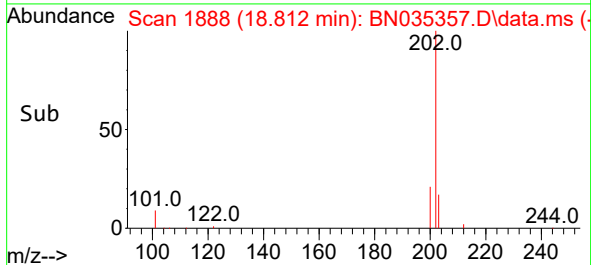
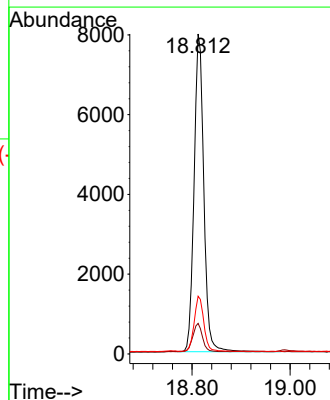
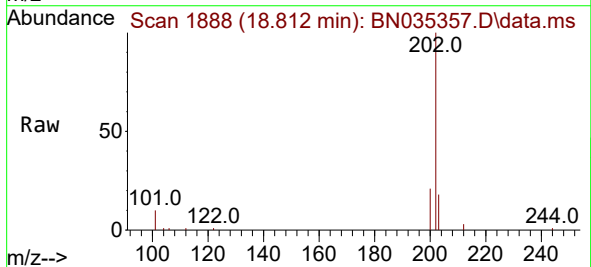
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112724

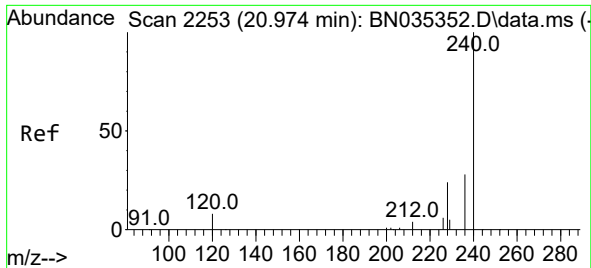
Tgt Ion:212 Resp: 8415  
Ion Ratio Lower Upper  
212 100  
106 11.3 9.2 13.8  
104 6.4 5.3 7.9



#28  
Fluoranthene  
Concen: 0.402 ng  
RT: 18.812 min Scan# 1888  
Delta R.T. -0.005 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

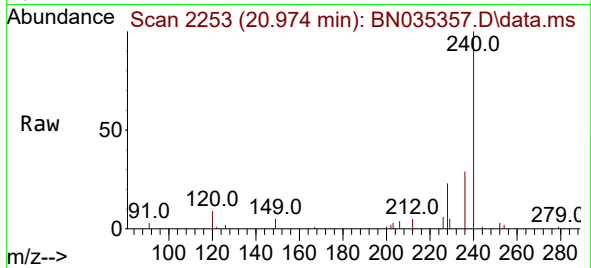
Tgt Ion:202 Resp: 10941  
Ion Ratio Lower Upper  
202 100  
101 9.2 7.4 11.0  
203 17.1 13.7 20.5



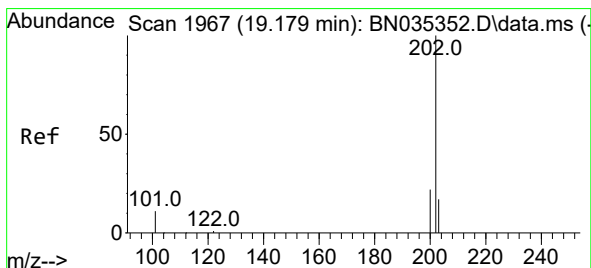
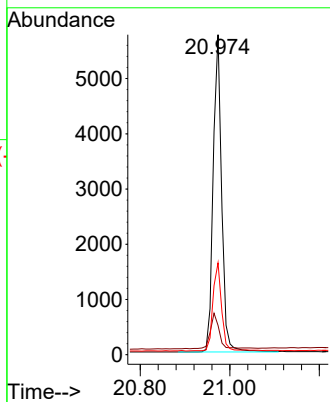
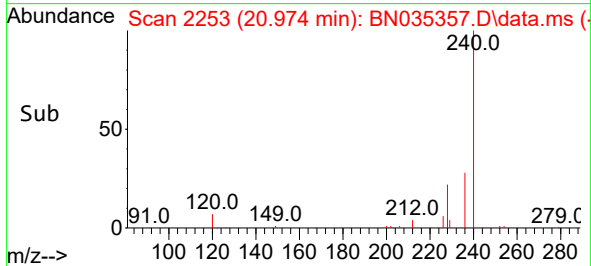


#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 20.974 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

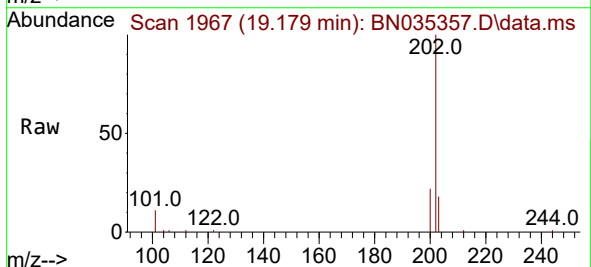
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112724



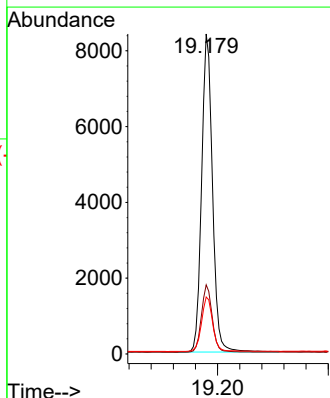
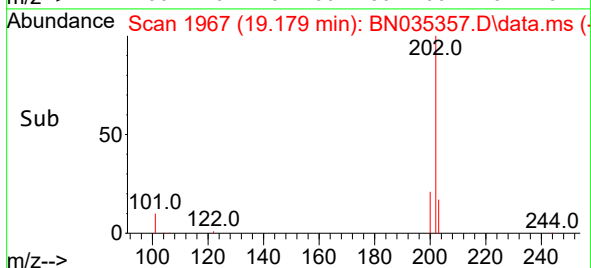
Tgt Ion:240 Resp: 7576  
Ion Ratio Lower Upper  
240 100  
120 9.1 7.9 11.9  
236 28.7 22.9 34.3

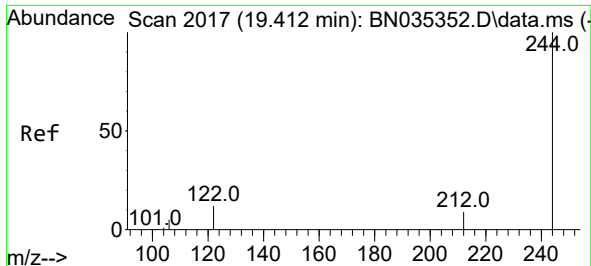


#30  
Pyrene  
Concen: 0.410 ng  
RT: 19.179 min Scan# 1967  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21



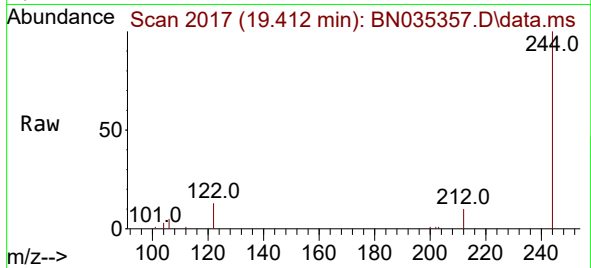
Tgt Ion:202 Resp: 11476  
Ion Ratio Lower Upper  
202 100  
200 20.9 17.0 25.4  
203 17.8 14.3 21.5



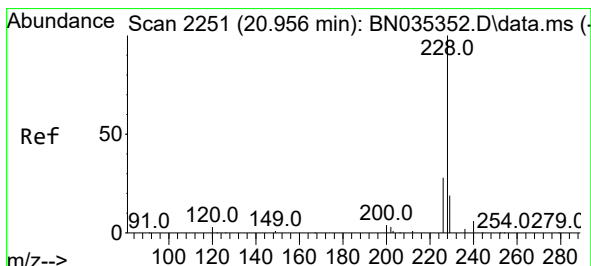
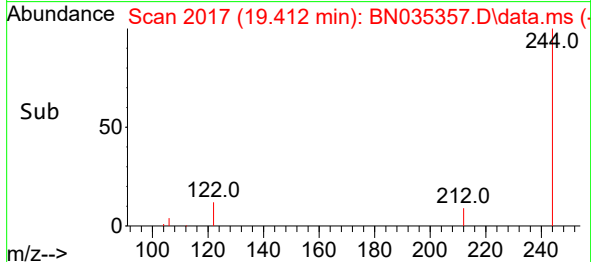
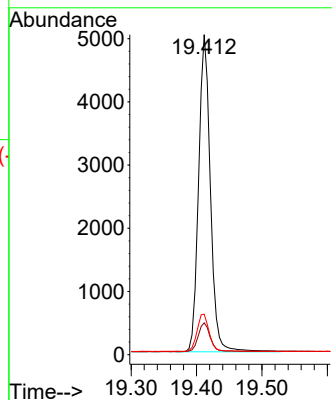


#31  
 Terphenyl-d14  
 Concen: 0.420 ng  
 RT: 19.412 min Scan# 2017  
 Delta R.T. -0.000 min  
 Lab File: BN035357.D  
 Acq: 27 Nov 2024 20:21

Instrument :  
 BNA\_N  
 ClientSampleId :  
 ICVBN112724

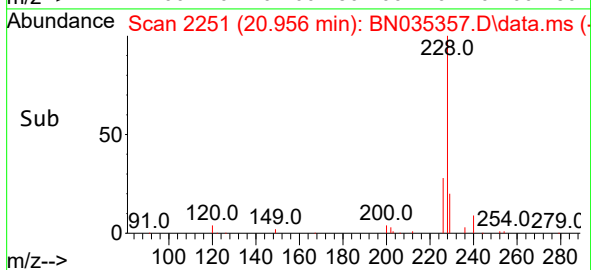
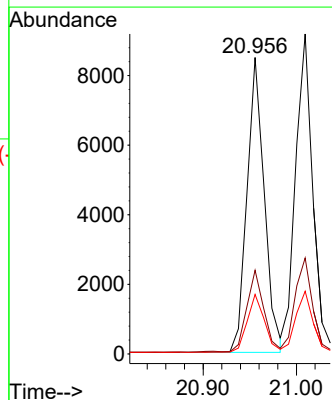
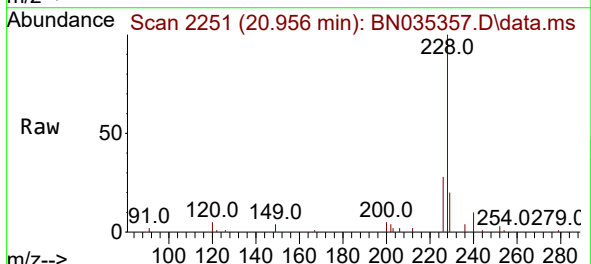


Tgt Ion:244 Resp: 6272  
 Ion Ratio Lower Upper  
 244 100  
 212 9.9 8.1 12.1  
 122 12.6 10.3 15.5

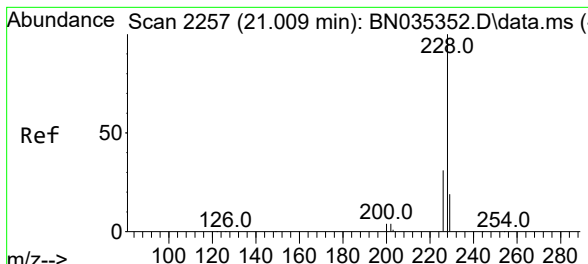


#32  
 Benzo(a)anthracene  
 Concen: 0.413 ng  
 RT: 20.956 min Scan# 2251  
 Delta R.T. -0.000 min  
 Lab File: BN035357.D  
 Acq: 27 Nov 2024 20:21

Tgt Ion:228 Resp: 10934  
 Ion Ratio Lower Upper  
 228 100  
 226 28.2 22.5 33.7  
 229 20.1 15.8 23.8







#33

Chrysene

Concen: 0.436 ng

RT: 21.009 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

Instrument :

BNA\_N

ClientSampleId :

ICVBN112724

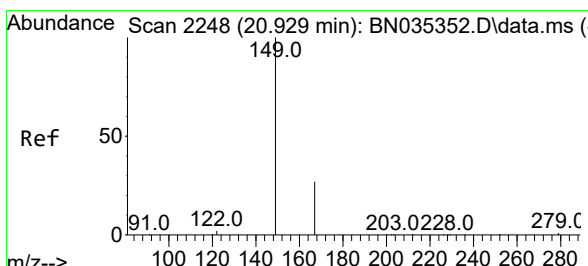
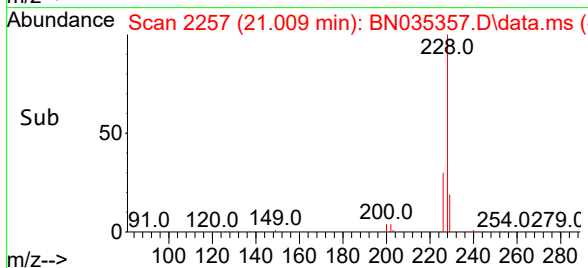
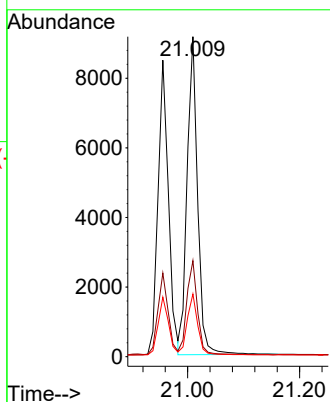
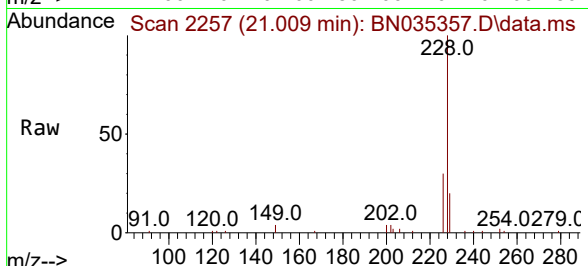
Tgt Ion:228 Resp: 11926

Ion Ratio Lower Upper

228 100

226 30.0 24.6 37.0

229 19.6 15.9 23.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.384 ng

RT: 20.929 min Scan# 2248

Delta R.T. -0.000 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

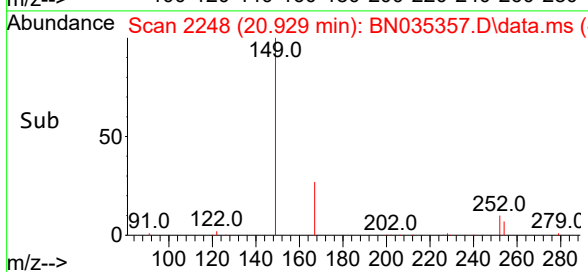
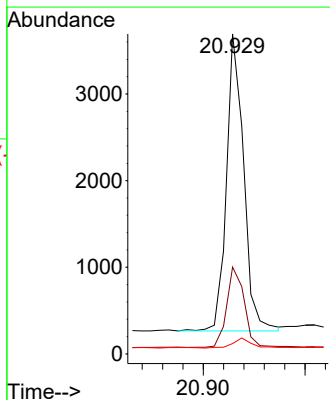
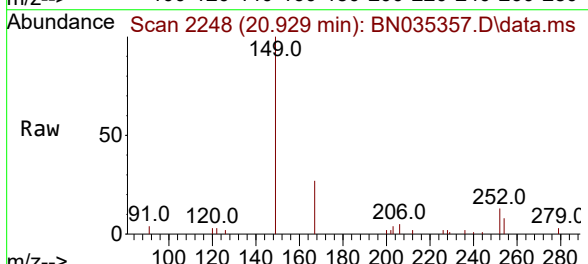
Tgt Ion:149 Resp: 4016

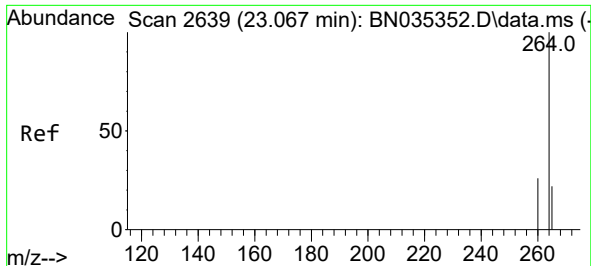
Ion Ratio Lower Upper

149 100

167 27.7 22.2 33.4

279 3.7 2.7 4.1

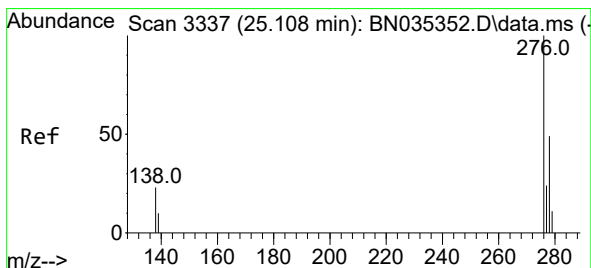
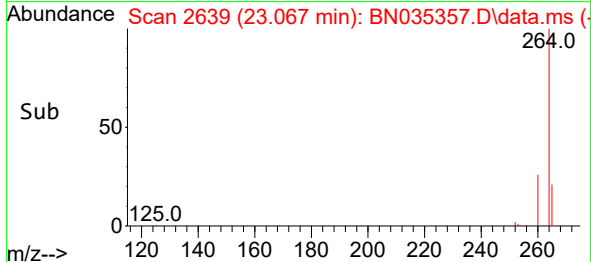
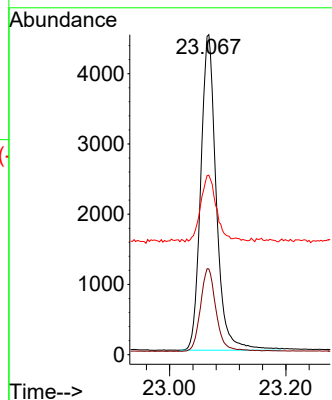
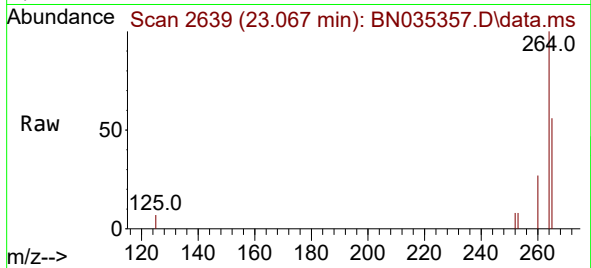




#35  
 Perylene-d12  
 Concen: 0.400 ng  
 RT: 23.067 min Scan# 20  
 Delta R.T. -0.000 min  
 Lab File: BN035357.D  
 Acq: 27 Nov 2024 20:21

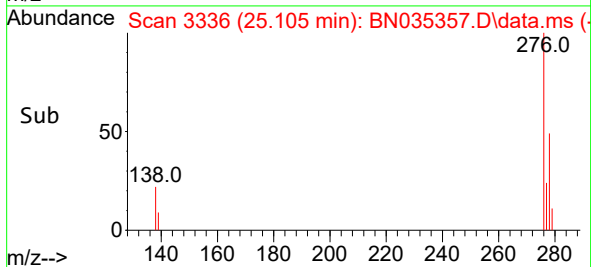
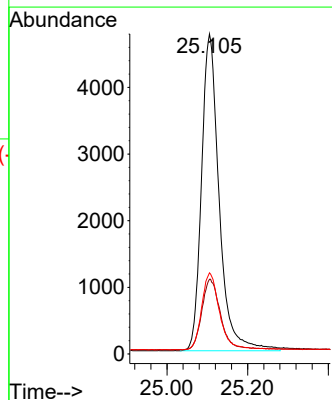
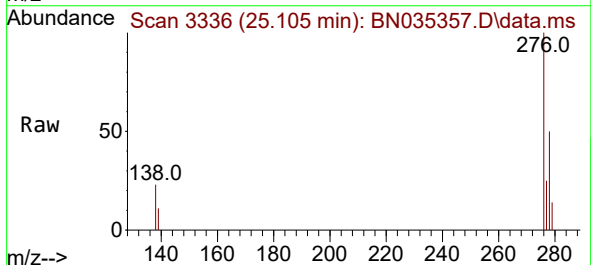
Instrument :  
 BNA\_N  
 ClientSampleId :  
 ICVBN112724

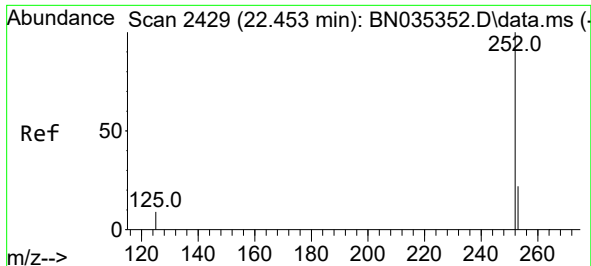
Tgt Ion:264 Resp: 8338  
 Ion Ratio Lower Upper  
 264 100  
 260 26.8 21.4 32.2  
 265 56.1 40.2 60.4



#36  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.443 ng  
 RT: 25.105 min Scan# 3336  
 Delta R.T. -0.003 min  
 Lab File: BN035357.D  
 Acq: 27 Nov 2024 20:21

Tgt Ion:276 Resp: 14433  
 Ion Ratio Lower Upper  
 276 100  
 138 23.5 19.4 29.0  
 277 24.6 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.426 ng

RT: 22.453 min Scan# 2429

Delta R.T. -0.000 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

Instrument :

BNA\_N

ClientSampleId :

ICVBN112724

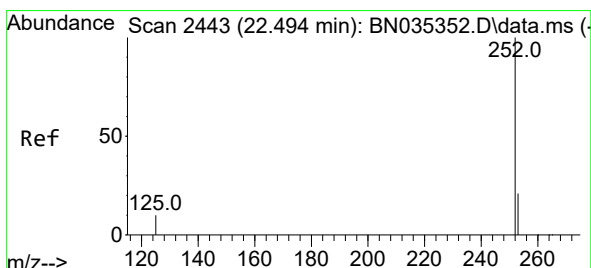
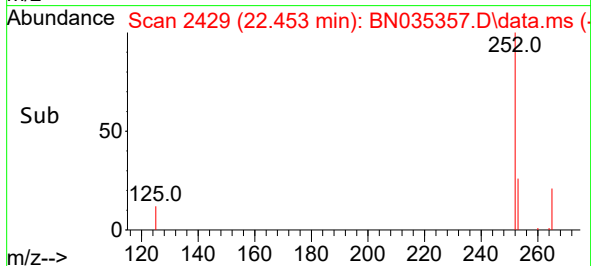
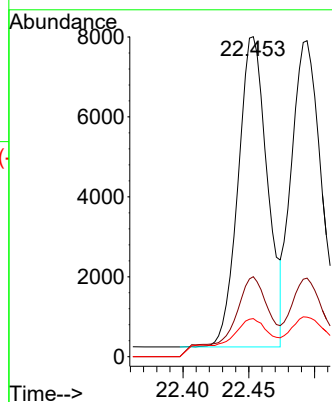
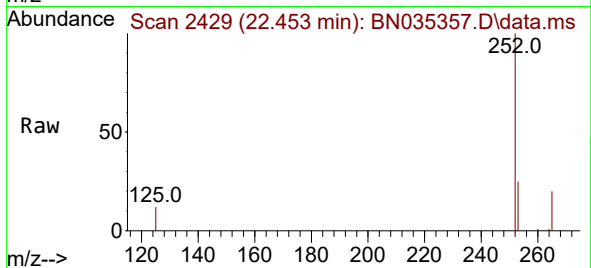
Tgt Ion:252 Resp: 12988

Ion Ratio Lower Upper

252 100

253 25.0 19.6 29.4

125 11.9 9.6 14.4



#38

Benzo(k)fluoranthene

Concen: 0.422 ng

RT: 22.494 min Scan# 2443

Delta R.T. -0.000 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

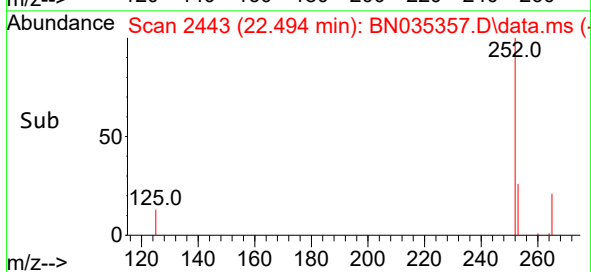
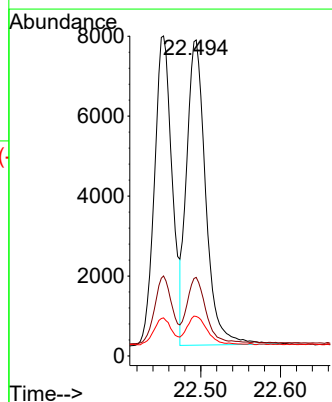
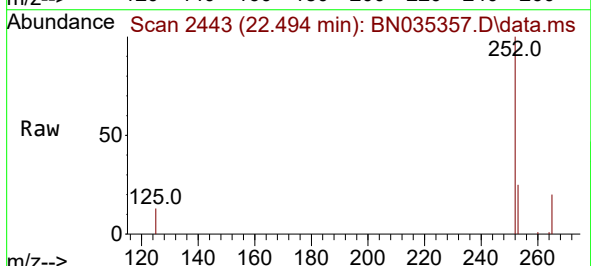
Tgt Ion:252 Resp: 12669

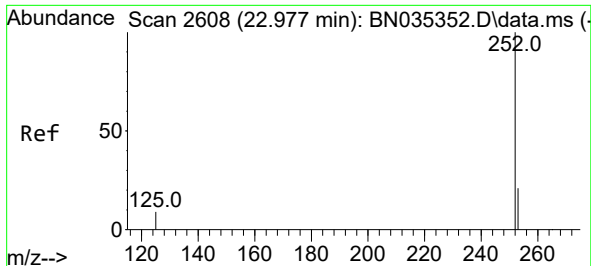
Ion Ratio Lower Upper

252 100

253 24.8 19.5 29.3

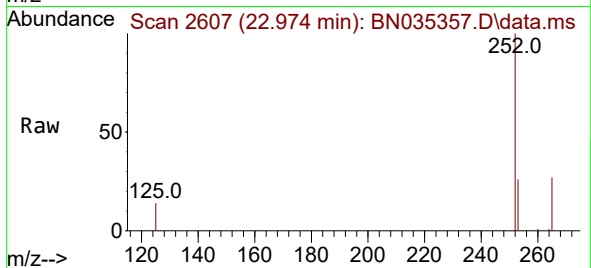
125 12.5 10.2 15.4



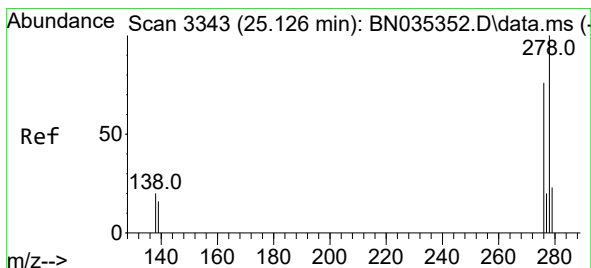
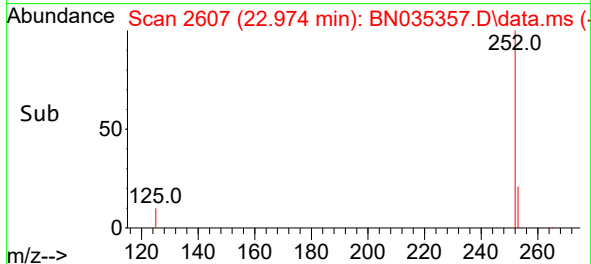
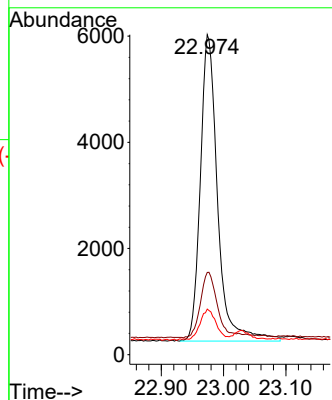


#39  
Benzo(a)pyrene  
Concen: 0.442 ng  
RT: 22.974 min Scan# 20  
Delta R.T. -0.003 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112724

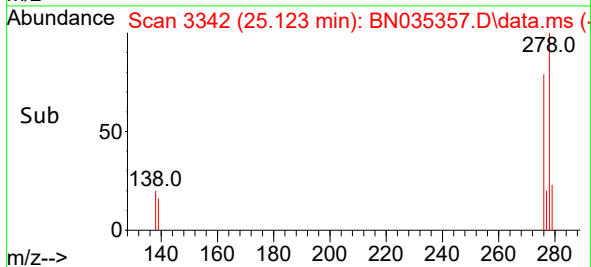
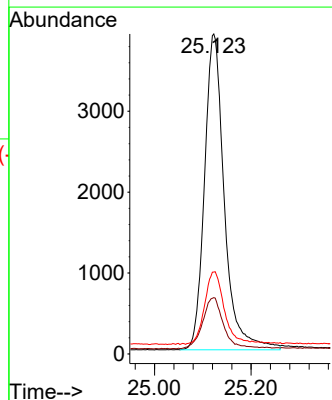
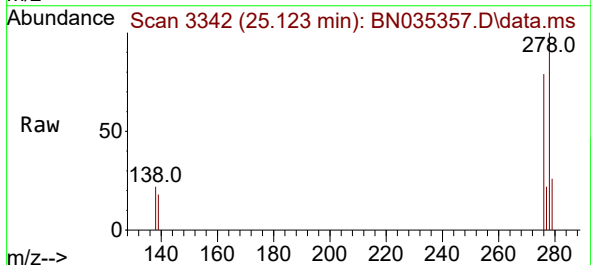


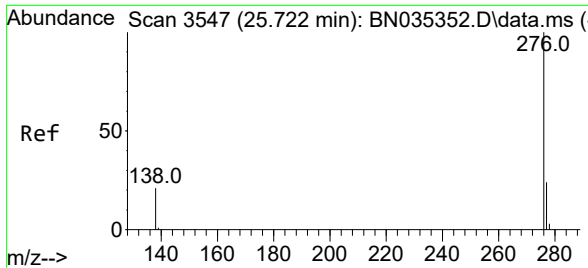
Tgt Ion:252 Resp: 11094  
Ion Ratio Lower Upper  
252 100  
253 25.7 20.2 30.4  
125 14.3 10.9 16.3



#40  
Dibenzo(a,h)anthracene  
Concen: 0.433 ng  
RT: 25.123 min Scan# 3342  
Delta R.T. -0.003 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

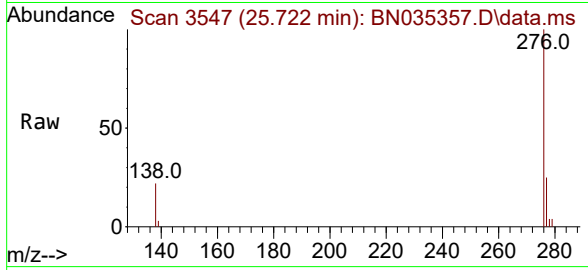
Tgt Ion:278 Resp: 11141  
Ion Ratio Lower Upper  
278 100  
139 17.6 14.2 21.4  
279 25.6 20.5 30.7





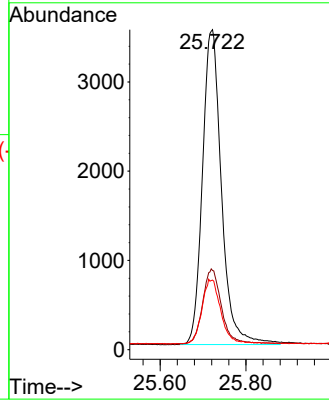
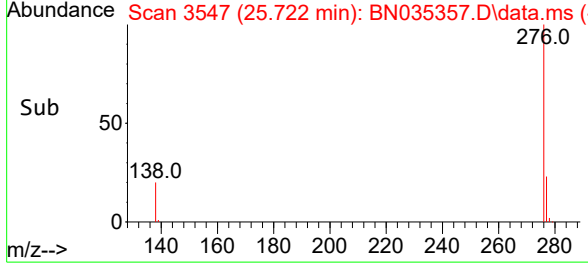
#41  
 Benzo(g,h,i)perylene  
 Concen: 0.404 ng  
 RT: 25.722 min Scan# 31  
 Delta R.T. -0.000 min  
 Lab File: BN035357.D  
 Acq: 27 Nov 2024 20:21

Instrument :  
 BNA\_N  
 ClientSampleId :  
 ICVBN112724



Tgt Ion:276 Resp: 10870

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100   |       |       |
| 277 | 24.7  | 19.9  | 29.9  |
| 138 | 21.7  | 17.8  | 26.8  |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN121924\  
 Data File : BN035731.D  
 Acq On : 20 Dec 2024 08:04  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4

Quant Time: Dec 20 08:27:53 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Dec 19 23:06:19 2024  
 Response via : Initial Calibration

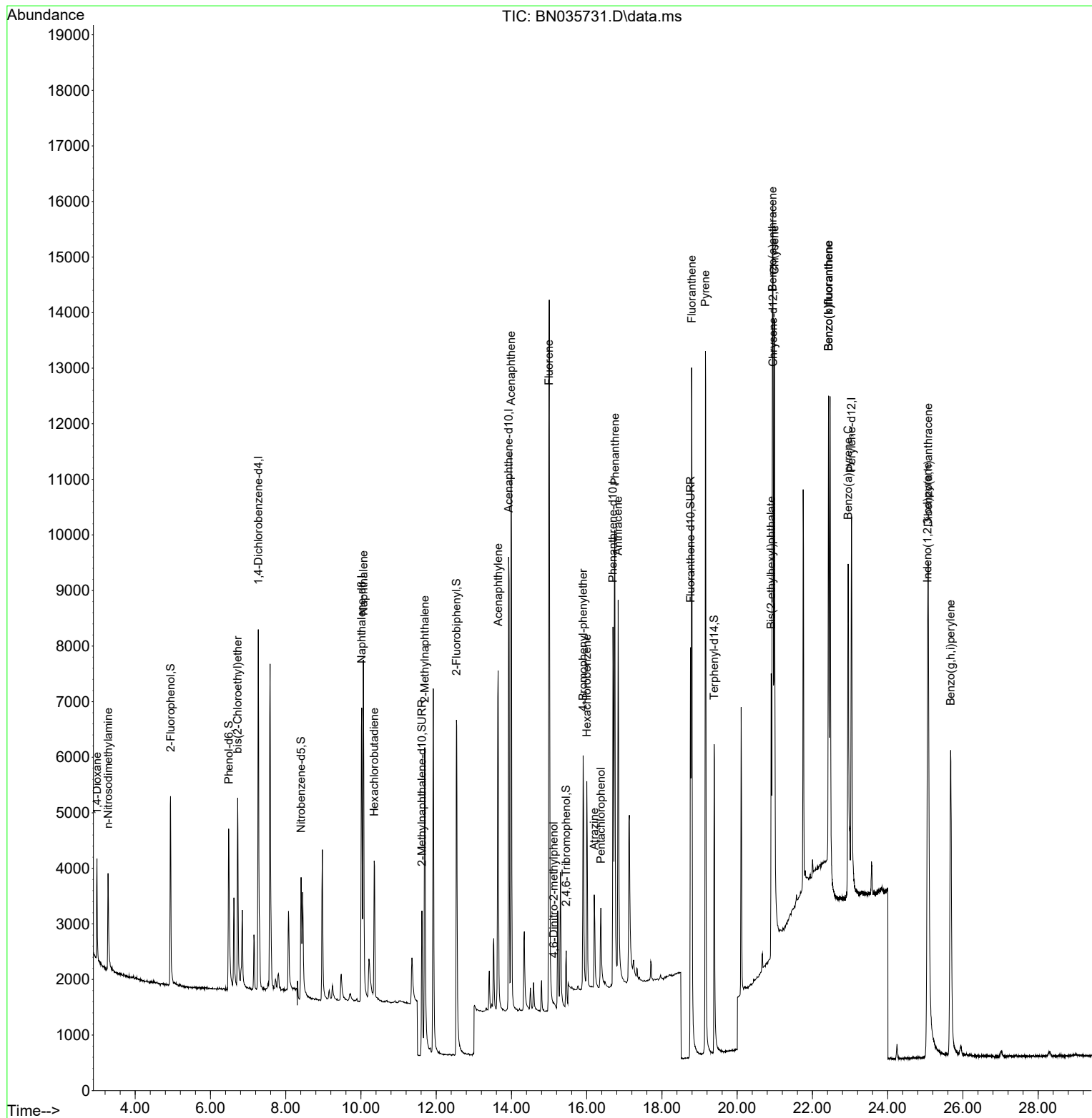
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.271  | 152  | 3239     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.020 | 136  | 8431     | 0.400 | ng    | # 0.00   |
| 13) Acenaphthene-d10          | 13.924 | 164  | 5341     | 0.400 | ng    | -0.01    |
| 19) Phenanthrene-d10          | 16.698 | 188  | 10575    | 0.400 | ng    | # 0.00   |
| 29) Chrysene-d12              | 20.956 | 240  | 8878     | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.038 | 264  | 9229     | 0.400 | ng    | # 0.00   |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 4.939  | 112  | 3206     | 0.396 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.484  | 99   | 3691     | 0.379 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.408  | 82   | 2692     | 0.523 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.621 | 152  | 4741     | 0.359 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.453 | 330  | 1180     | 0.311 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.538 | 172  | 7347     | 0.364 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 18.761 | 212  | 10416    | 0.347 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.388 | 244  | 7453     | 0.426 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
|                               |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 2.981  | 88   | 1312     | 0.424 | ng    | 96       |
| 3) n-Nitrosodimethylamine     | 3.278  | 42   | 1070     | 0.415 | ng    | # 94     |
| 6) bis(2-Chloroethyl)ether    | 6.723  | 93   | 2987     | 0.365 | ng    | 100      |
| 9) Naphthalene                | 10.062 | 128  | 8331     | 0.375 | ng    | 100      |
| 10) Hexachlorobutadiene       | 10.351 | 225  | 2194     | 0.428 | ng    | # 99     |
| 12) 2-Methylnaphthalene       | 11.697 | 142  | 5286     | 0.332 | ng    | 100      |
| 16) Acenaphthylene            | 13.646 | 152  | 7931     | 0.354 | ng    | 100      |
| 17) Acenaphthene              | 13.989 | 154  | 5347     | 0.359 | ng    | 99       |
| 18) Fluorene                  | 14.993 | 166  | 7004     | 0.329 | ng    | 99       |
| 20) 4,6-Dinitro-2-methylph... | 15.122 | 198  | 83       | 0.080 | ng    | # 1      |
| 21) 4-Bromophenyl-phenylether | 15.904 | 248  | 2216     | 0.358 | ng    | # 71     |
| 22) Hexachlorobenzene         | 16.003 | 284  | 3183     | 0.438 | ng    | 97       |
| 23) Atrazine                  | 16.202 | 200  | 1696     | 0.385 | ng    | 98       |
| 24) Pentachlorophenol         | 16.375 | 266  | 1107     | 0.350 | ng    | # 83     |
| 25) Phenanthrene              | 16.748 | 178  | 10192    | 0.351 | ng    | 100      |
| 26) Anthracene                | 16.835 | 178  | 9082     | 0.346 | ng    | 99       |
| 28) Fluoranthene              | 18.789 | 202  | 12678    | 0.324 | ng    | 99       |
| 30) Pyrene                    | 19.156 | 202  | 13069    | 0.399 | ng    | 100      |
| 32) Benzo(a)anthracene        | 20.938 | 228  | 10542    | 0.339 | ng    | 100      |
| 33) Chrysene                  | 20.991 | 228  | 12448    | 0.389 | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 20.902 | 149  | 5271     | 0.430 | ng    | 99       |
| 36) Indeno(1,2,3-cd)pyrene    | 25.061 | 276  | 13578    | 0.376 | ng    | 96       |
| 37) Benzo(b)fluoranthene      | 22.427 | 252  | 14777    | 0.438 | ng    | 97       |
| 38) Benzo(k)fluoranthene      | 22.427 | 252  | 14777    | 0.445 | ng    | 98       |
| 39) Benzo(a)pyrene            | 22.947 | 252  | 10146    | 0.365 | ng    | # 92     |
| 40) Dibenzo(a,h)anthracene    | 25.079 | 278  | 10523    | 0.370 | ng    | 97       |
| 41) Benzo(g,h,i)perylene      | 25.672 | 276  | 11906    | 0.400 | ng    | 98       |

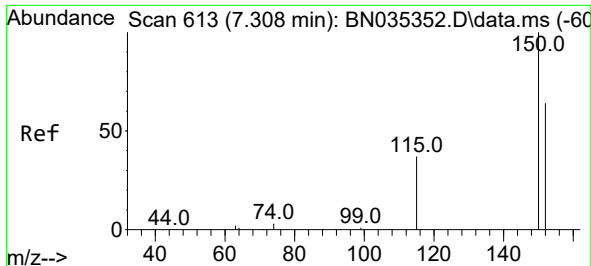
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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 Data File : BN035731.D  
 Acq On : 20 Dec 2024 08:04  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4

Quant Time: Dec 20 08:27:53 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Dec 19 23:06:19 2024  
 Response via : Initial Calibration

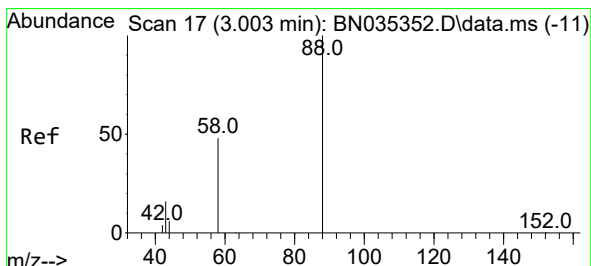
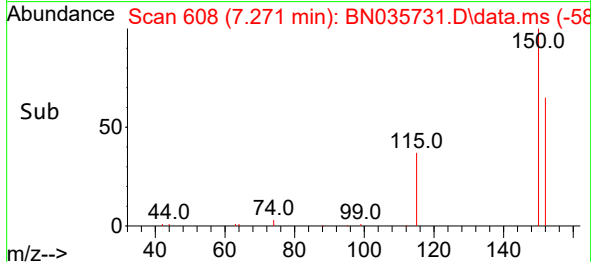
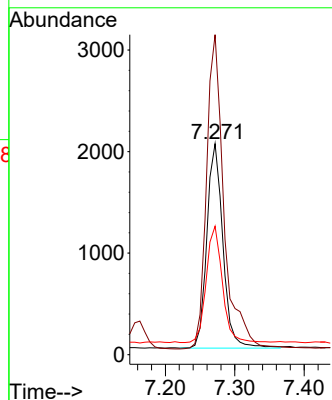
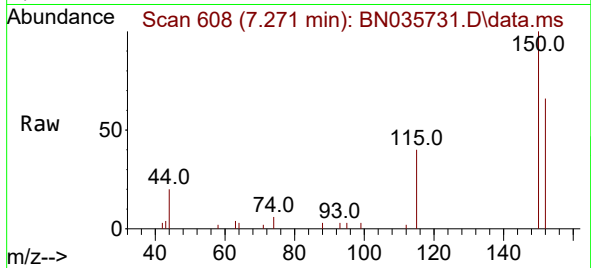




#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.271 min Scan# 613  
Delta R.T. -0.001 min  
Lab File: BN035731.D  
Acq: 20 Dec 2024 08:04

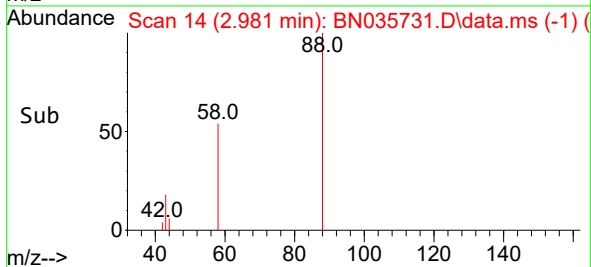
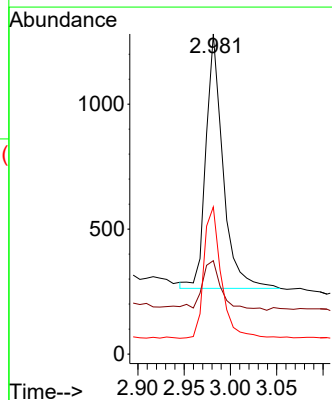
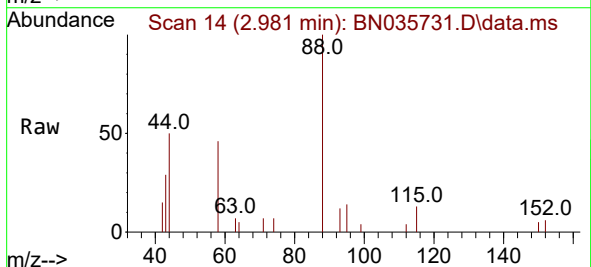
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

Tgt Ion:152 Resp: 3239  
Ion Ratio Lower Upper  
152 100  
150 151.6 124.0 186.0  
115 60.9 49.6 74.4

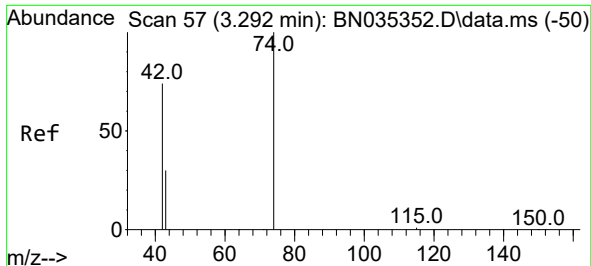


#2  
1,4-Dioxane  
Concen: 0.424 ng  
RT: 2.981 min Scan# 14  
Delta R.T. -0.000 min  
Lab File: BN035731.D  
Acq: 20 Dec 2024 08:04

Tgt Ion: 88 Resp: 1312  
Ion Ratio Lower Upper  
88 100  
43 23.4 17.2 25.8  
58 52.7 44.5 66.7



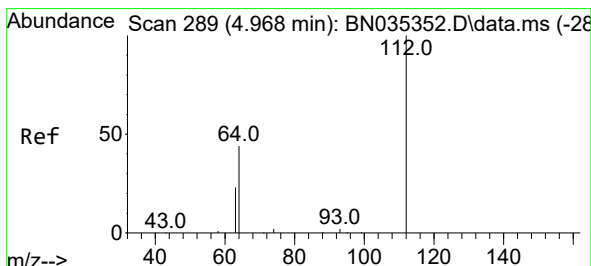
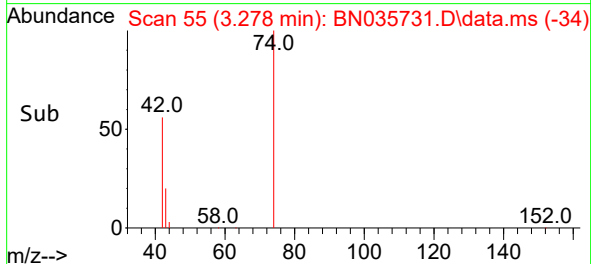
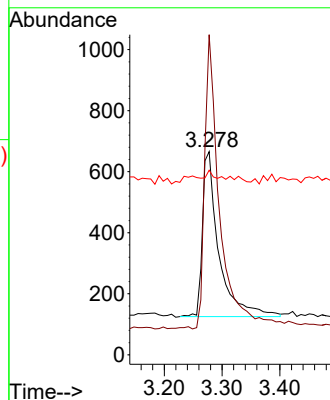
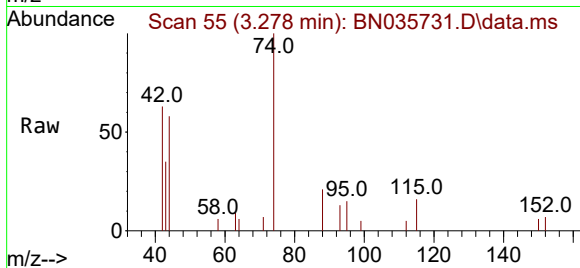




#3  
n-Nitrosodimethylamine  
Concen: 0.415 ng  
RT: 3.278 min Scan# 51  
Delta R.T. -0.000 min  
Lab File: BN035731.D  
Acq: 20 Dec 2024 08:04

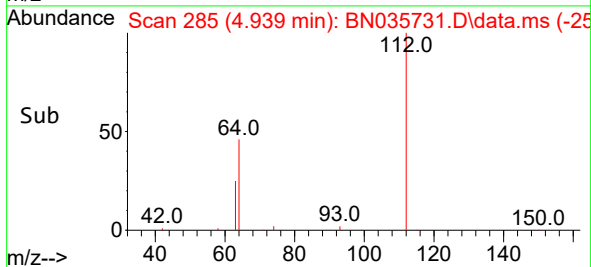
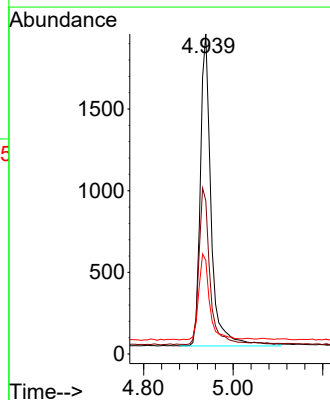
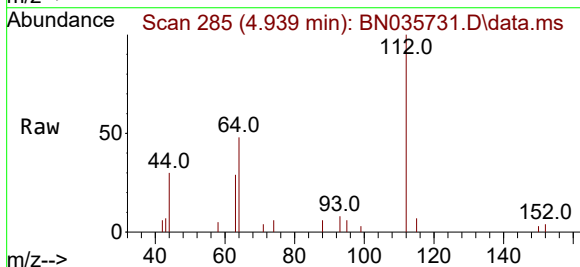
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

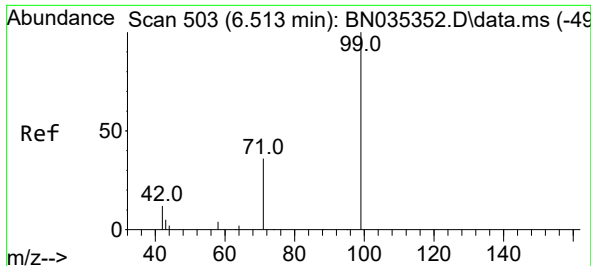
Tgt Ion: 42 Resp: 1070  
Ion Ratio Lower Upper  
42 100  
74 163.5 124.9 187.3  
44 1.8 2.2 3.4#



#4  
2-Fluorophenol  
Concen: 0.396 ng  
RT: 4.939 min Scan# 285  
Delta R.T. -0.000 min  
Lab File: BN035731.D  
Acq: 20 Dec 2024 08:04

Tgt Ion: 112 Resp: 3206  
Ion Ratio Lower Upper  
112 100  
64 50.6 39.8 59.8  
63 27.8 21.0 31.6

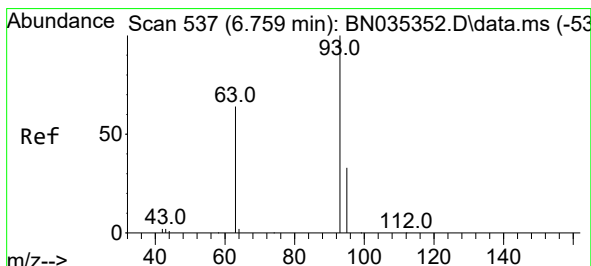
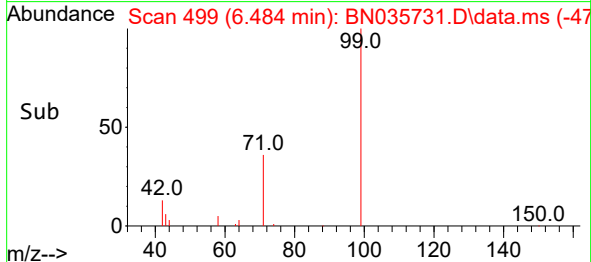
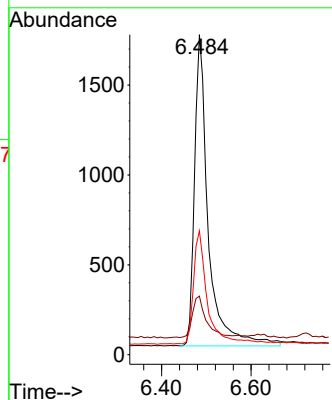
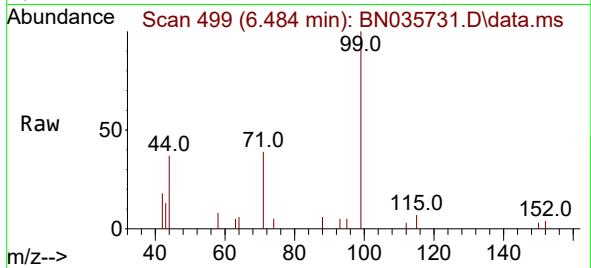




#5  
Phenol-d6  
Concen: 0.379 ng  
RT: 6.484 min Scan# 499  
Delta R.T. -0.007 min  
Lab File: BN035731.D  
Acq: 20 Dec 2024 08:04

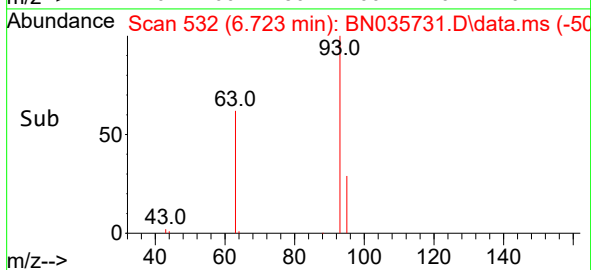
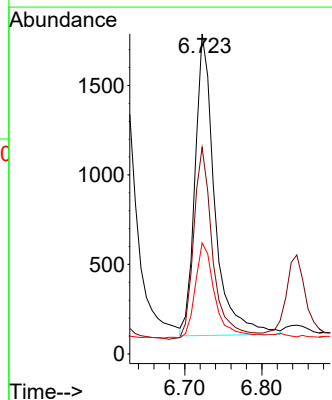
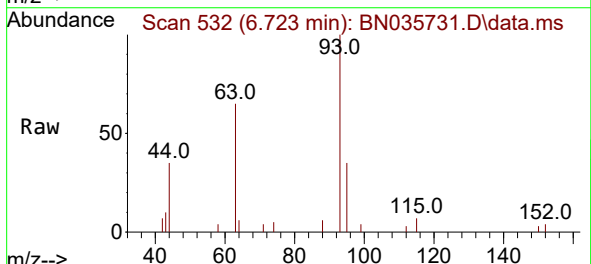
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

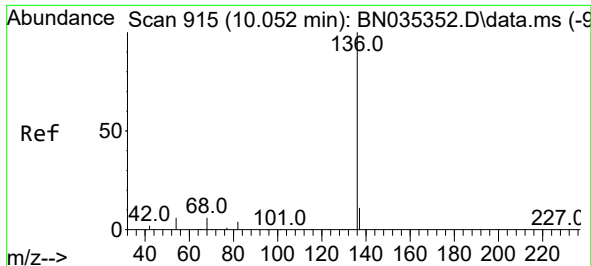
Tgt Ion: 99 Resp: 3691  
Ion Ratio Lower Upper  
99 100  
42 13.8 11.4 17.2  
71 36.7 29.3 43.9



#6  
bis(2-Chloroethyl)ether  
Concen: 0.365 ng  
RT: 6.723 min Scan# 532  
Delta R.T. -0.007 min  
Lab File: BN035731.D  
Acq: 20 Dec 2024 08:04

Tgt Ion: 93 Resp: 2987  
Ion Ratio Lower Upper  
93 100  
63 62.5 50.4 75.6  
95 32.2 25.7 38.5

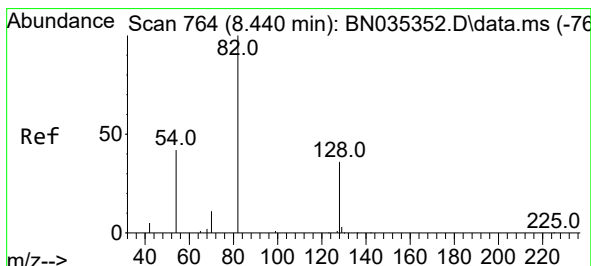
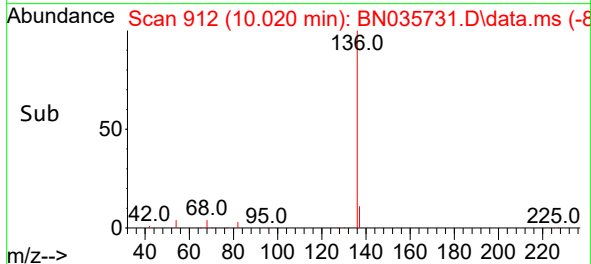
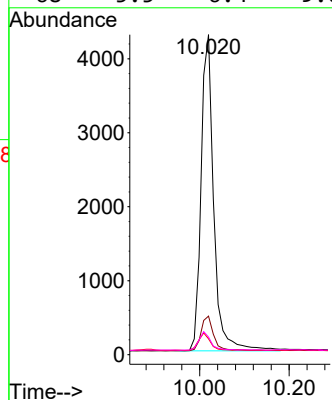
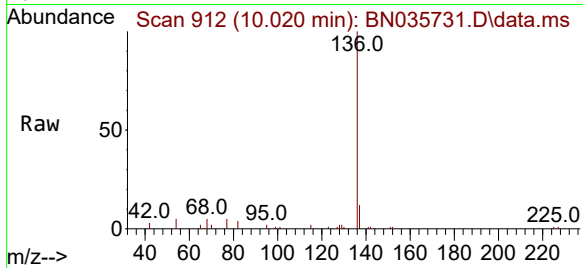




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.020 min Scan# 915  
Delta R.T. -0.000 min  
Lab File: BN035731.D  
Acq: 20 Dec 2024 08:04

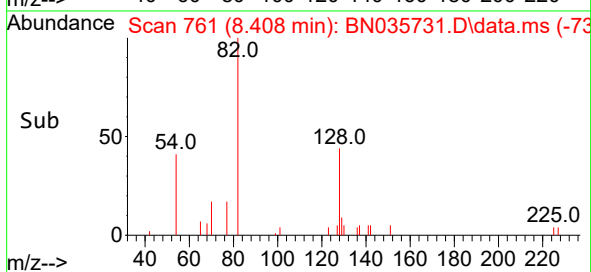
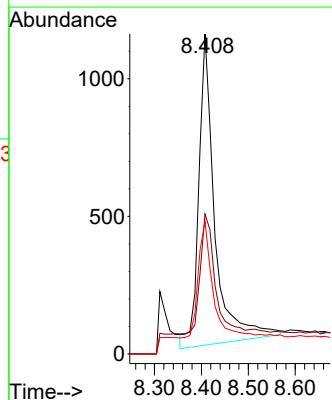
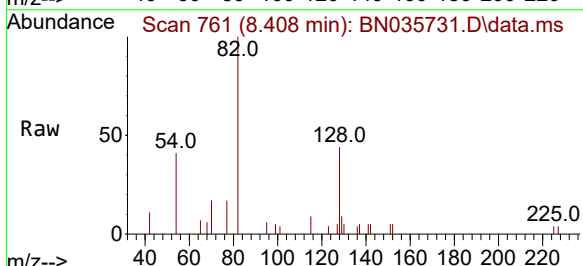
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

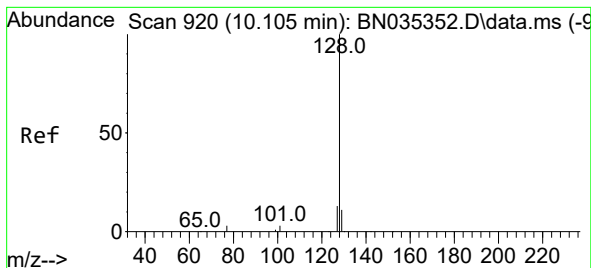
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 136   | Resp: | 8431 |
| Ion Ratio | Lower | Upper |      |
| 136       | 100   |       |      |
| 137       | 12.0  | 10.2  | 15.2 |
| 54        | 5.0   | 6.1   | 9.1# |
| 68        | 5.5   | 6.4   | 9.6# |



#8  
Nitrobenzene-d5  
Concen: 0.523 ng  
RT: 8.408 min Scan# 761  
Delta R.T. -0.000 min  
Lab File: BN035731.D  
Acq: 20 Dec 2024 08:04

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 82    | Resp: | 2692 |
| Ion Ratio | Lower | Upper |      |
| 82        | 100   |       |      |
| 128       | 43.8  | 33.4  | 50.0 |
| 54        | 41.4  | 36.7  | 55.1 |





#9

Naphthalene

Concen: 0.375 ng

RT: 10.062 min Scan# 916

Delta R.T. -0.000 min

Lab File: BN035731.D

Acq: 20 Dec 2024 08:04

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

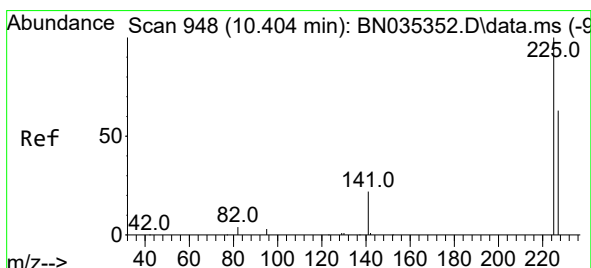
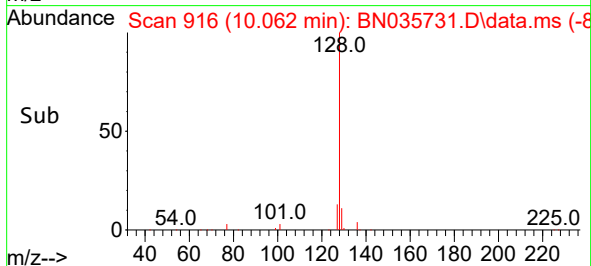
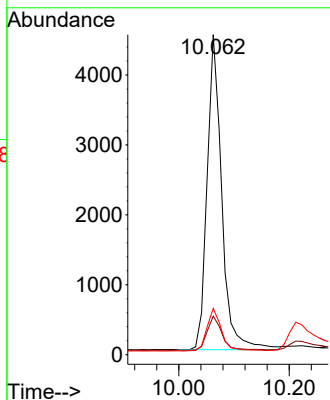
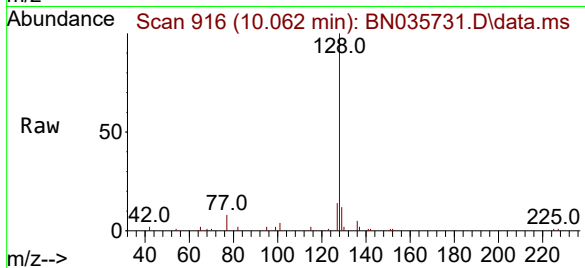
Tgt Ion:128 Resp: 8331

Ion Ratio Lower Upper

128 100

129 12.0 9.8 14.6

127 14.4 11.4 17.2



#10

Hexachlorobutadiene

Concen: 0.428 ng

RT: 10.351 min Scan# 943

Delta R.T. -0.011 min

Lab File: BN035731.D

Acq: 20 Dec 2024 08:04

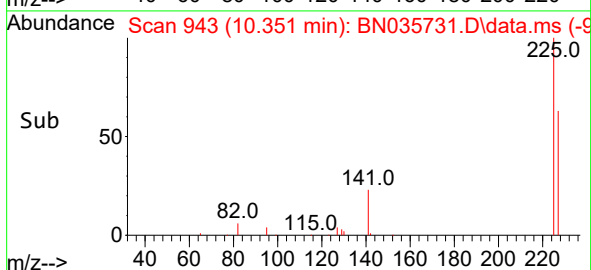
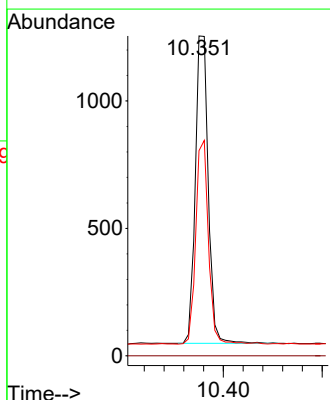
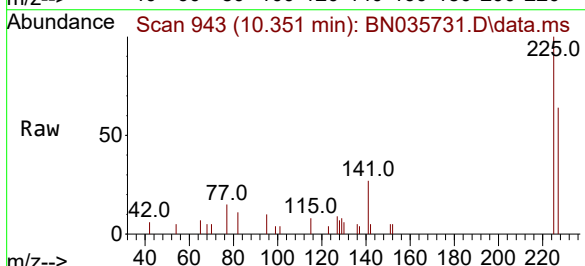
Tgt Ion:225 Resp: 2194

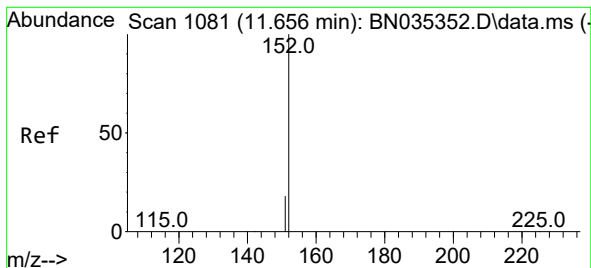
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 65.1 51.3 76.9

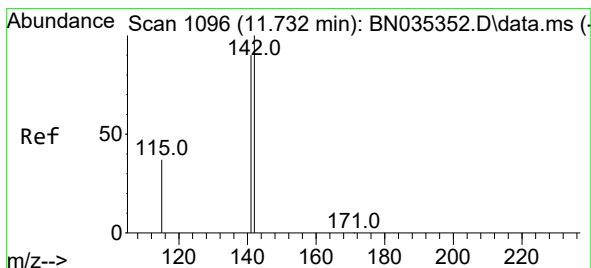
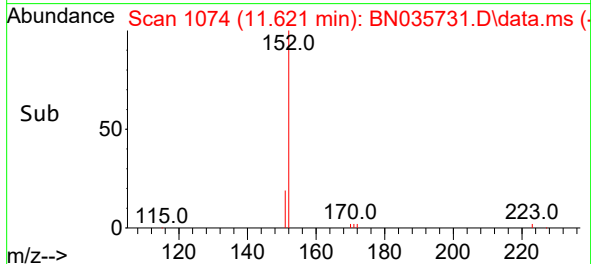
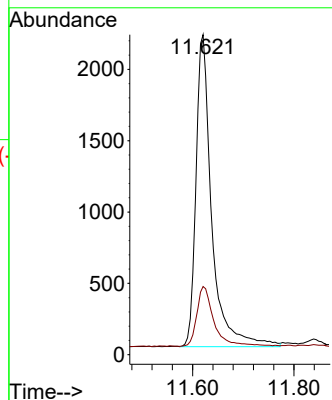
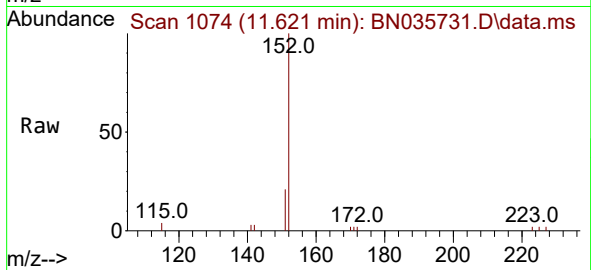




#11  
2-Methylnaphthalene-d10  
Concen: 0.359 ng  
RT: 11.621 min Scan# 1074  
Delta R.T. -0.000 min  
Lab File: BN035731.D  
Acq: 20 Dec 2024 08:04

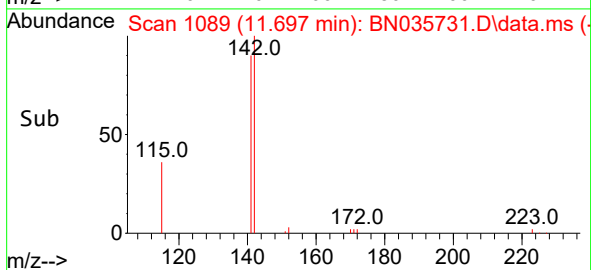
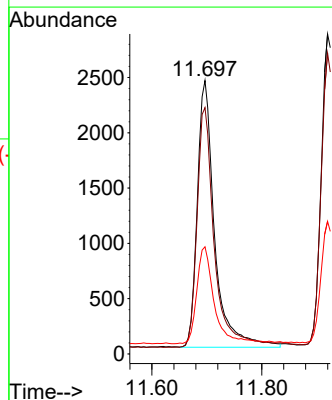
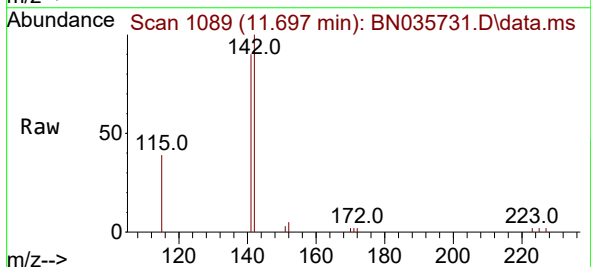
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

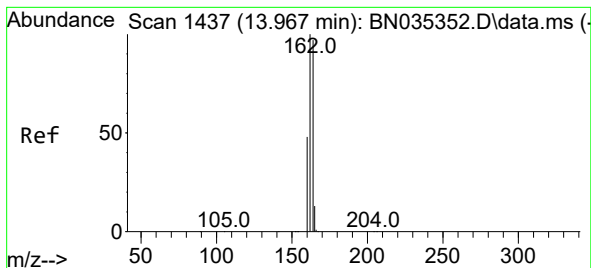
Tgt Ion:152 Resp: 4741  
Ion Ratio Lower Upper  
152 100  
151 20.9 16.6 25.0



#12  
2-Methylnaphthalene  
Concen: 0.332 ng  
RT: 11.697 min Scan# 1089  
Delta R.T. -0.000 min  
Lab File: BN035731.D  
Acq: 20 Dec 2024 08:04

Tgt Ion:142 Resp: 5286  
Ion Ratio Lower Upper  
142 100  
141 90.1 72.2 108.4  
115 39.2 31.4 47.0





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 13.924 min Scan# 14

Delta R.T. -0.011 min

Lab File: BN035731.D

Acq: 20 Dec 2024 08:04

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

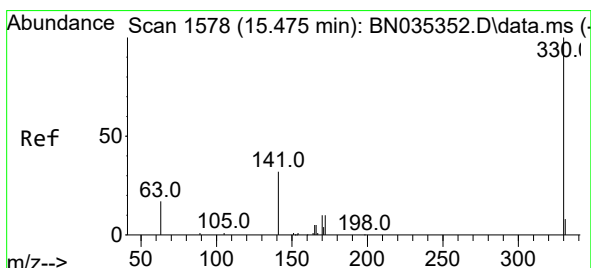
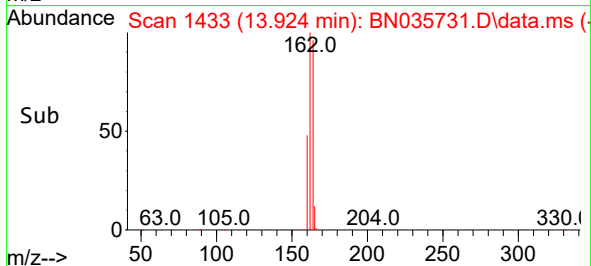
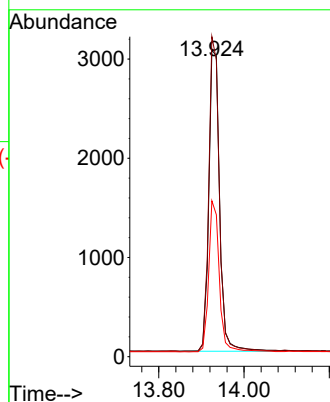
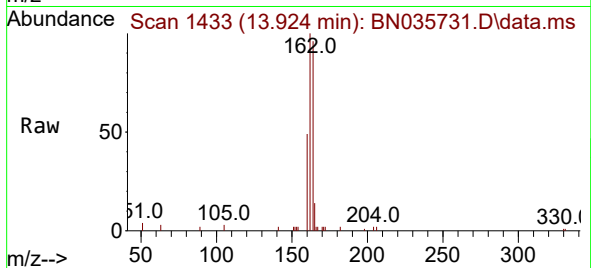
Tgt Ion:164 Resp: 5341

Ion Ratio Lower Upper

164 100

162 104.3 82.2 123.2

160 50.8 40.1 60.1



#14

2,4,6-Tribromophenol

Concen: 0.311 ng

RT: 15.453 min Scan# 1576

Delta R.T. -0.000 min

Lab File: BN035731.D

Acq: 20 Dec 2024 08:04

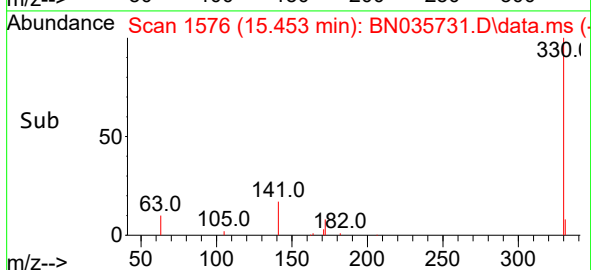
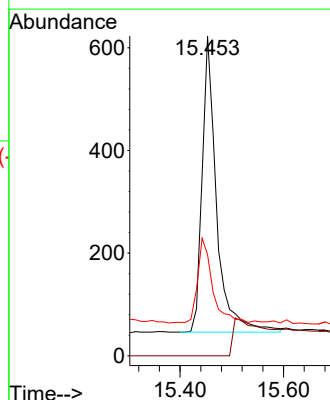
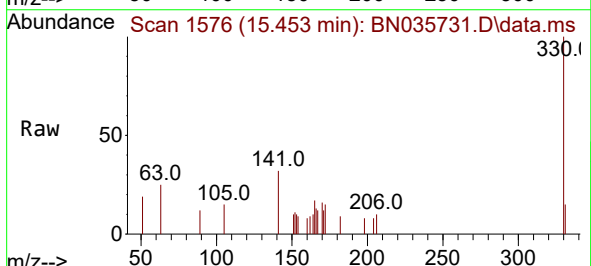
Tgt Ion:330 Resp: 1180

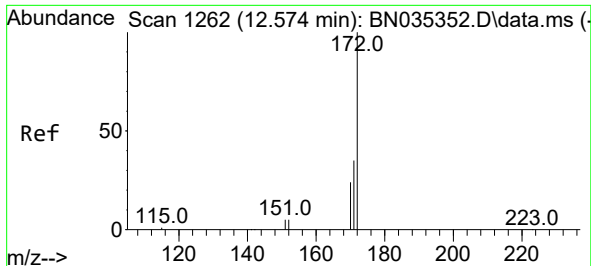
Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

141 28.6 26.6 40.0

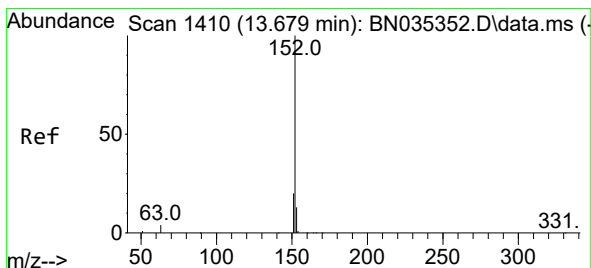
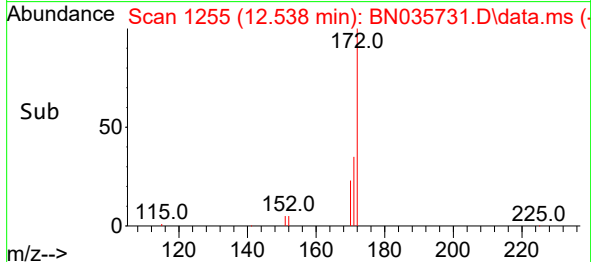
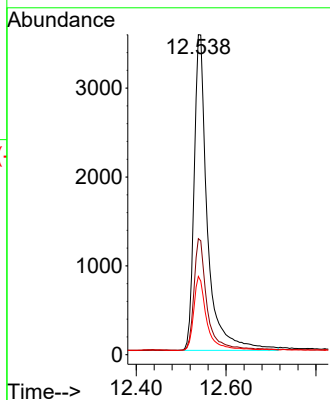
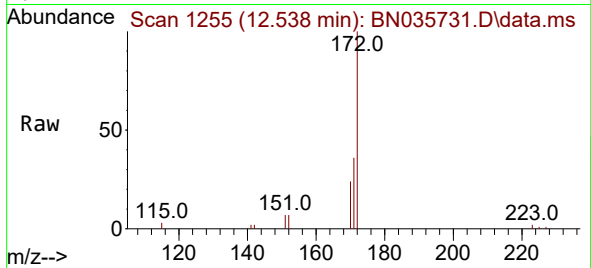




#15  
2-Fluorobiphenyl  
Concen: 0.364 ng  
RT: 12.538 min Scan# 11  
Delta R.T. -0.005 min  
Lab File: BN035731.D  
Acq: 20 Dec 2024 08:04

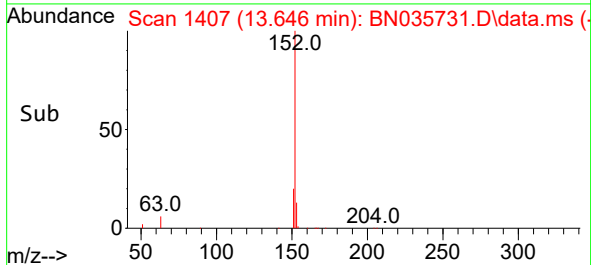
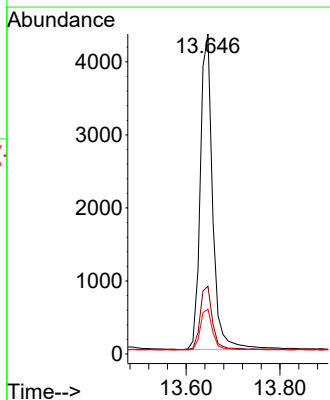
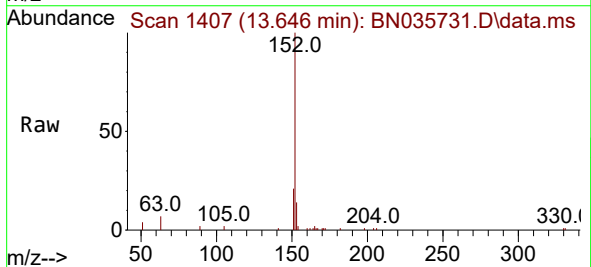
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

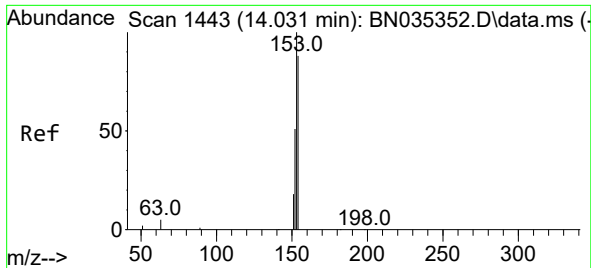
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 172   | Resp: | 7347  |
| Ion      | Ratio | Lower | Upper |
| 172      | 100   |       |       |
| 171      | 36.2  | 29.0  | 43.4  |
| 170      | 24.5  | 19.8  | 29.8  |



#16  
Acenaphthylene  
Concen: 0.354 ng  
RT: 13.646 min Scan# 1407  
Delta R.T. -0.000 min  
Lab File: BN035731.D  
Acq: 20 Dec 2024 08:04

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 152   | Resp: | 7931  |
| Ion      | Ratio | Lower | Upper |
| 152      | 100   |       |       |
| 151      | 20.5  | 16.2  | 24.2  |
| 153      | 13.0  | 10.4  | 15.6  |

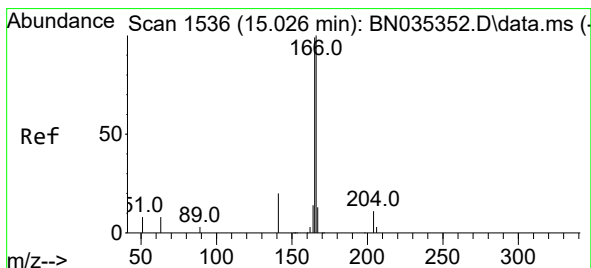
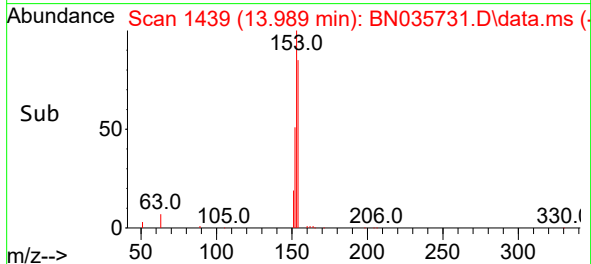
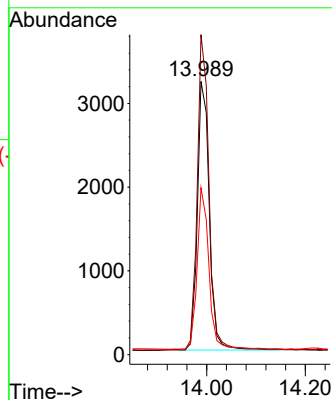
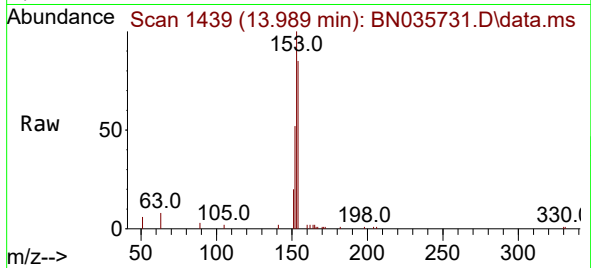




#17  
Acenaphthene  
Concen: 0.359 ng  
RT: 13.989 min Scan# 14  
Delta R.T. -0.011 min  
Lab File: BN035731.D  
Acq: 20 Dec 2024 08:04

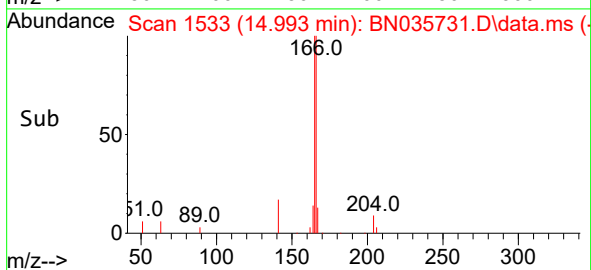
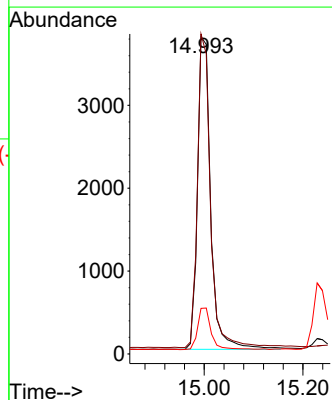
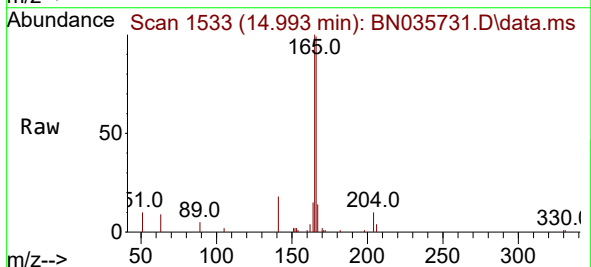
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

Tgt Ion:154 Resp: 5347  
Ion Ratio Lower Upper  
154 100  
153 116.2 92.6 139.0  
152 59.2 49.0 73.6

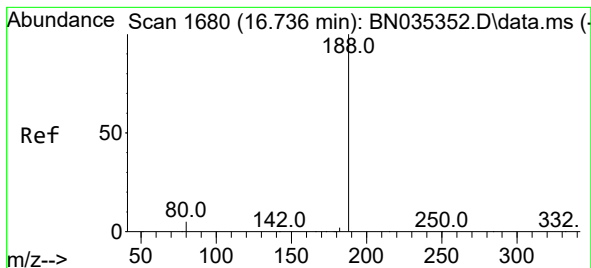


#18  
Fluorene  
Concen: 0.329 ng  
RT: 14.993 min Scan# 1533  
Delta R.T. -0.011 min  
Lab File: BN035731.D  
Acq: 20 Dec 2024 08:04

Tgt Ion:166 Resp: 7004  
Ion Ratio Lower Upper  
166 100  
165 98.3 79.7 119.5  
167 13.7 10.8 16.2







#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.698 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN035731.D

Acq: 20 Dec 2024 08:04

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

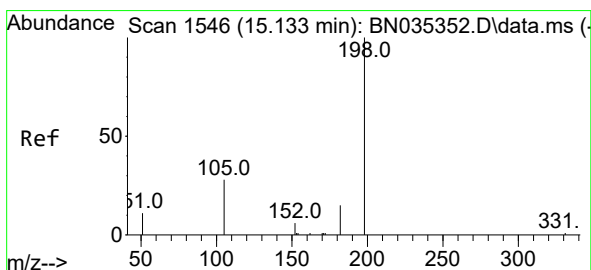
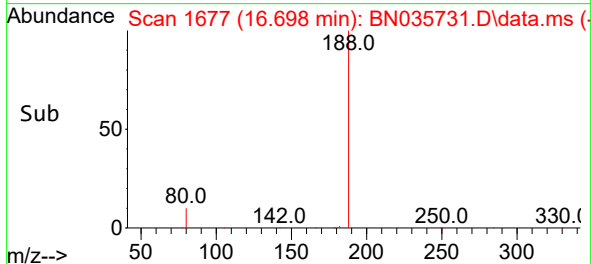
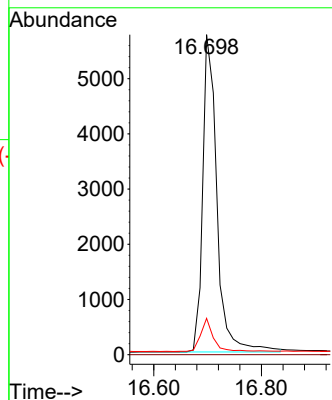
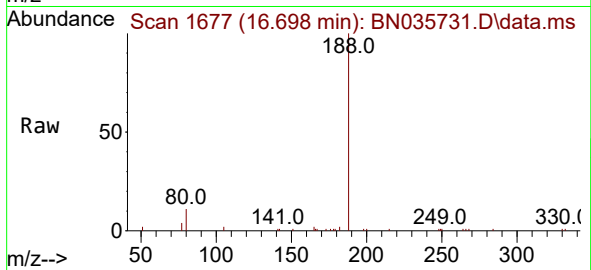
Tgt Ion:188 Resp: 10575

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.3 4.6 6.8#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.080 ng

RT: 15.122 min Scan# 1545

Delta R.T. -0.000 min

Lab File: BN035731.D

Acq: 20 Dec 2024 08:04

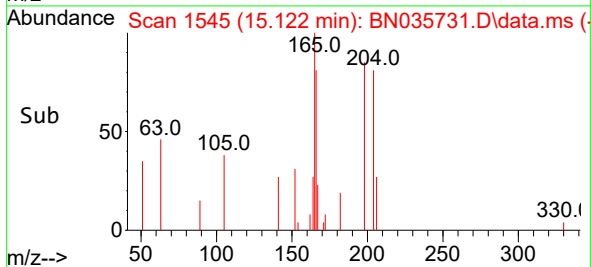
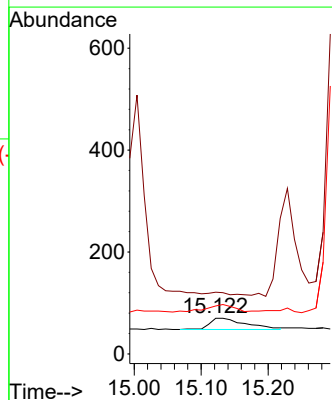
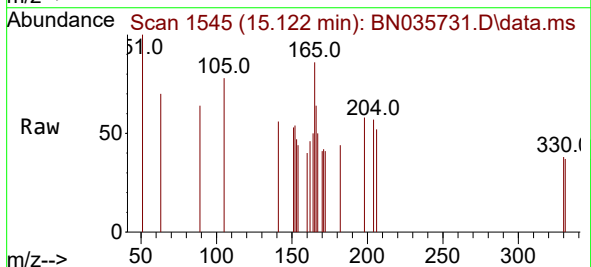
Tgt Ion:198 Resp: 83

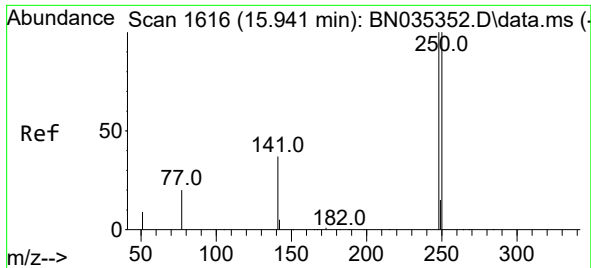
Ion Ratio Lower Upper

198 100

51 172.9 46.5 69.7#

105 134.3 45.3 67.9#

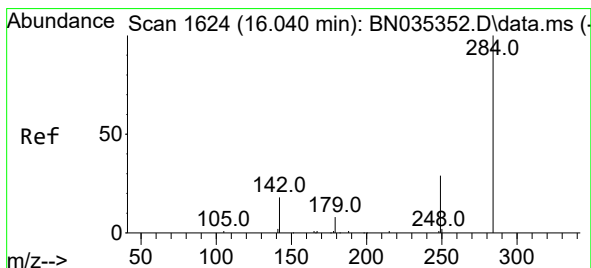
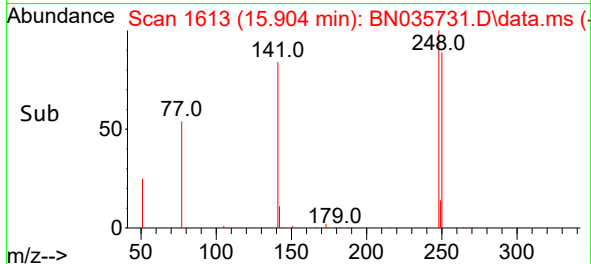
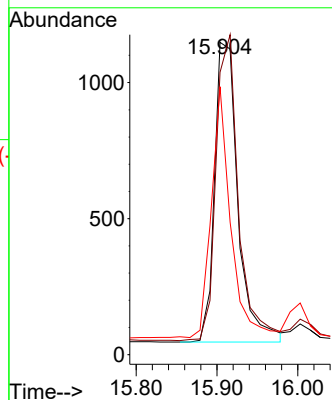
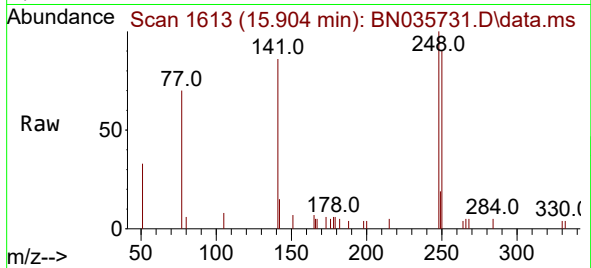




#21  
4-Bromophenyl-phenylether  
Concen: 0.358 ng  
RT: 15.904 min Scan# 1613  
Delta R.T. -0.013 min  
Lab File: BN035731.D  
Acq: 20 Dec 2024 08:04

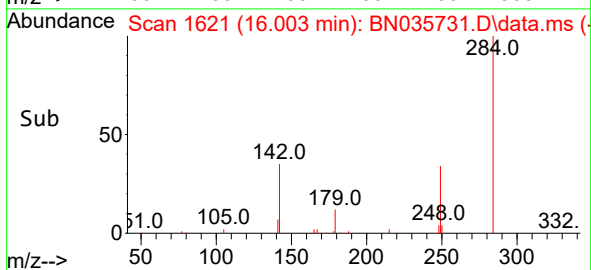
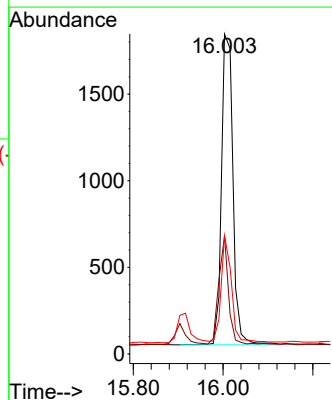
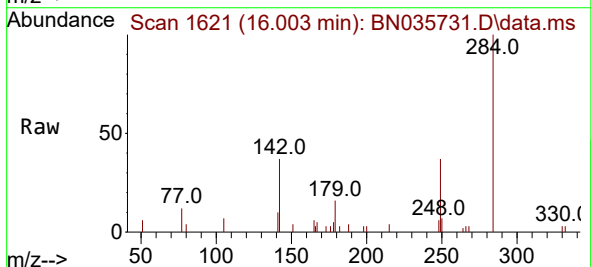
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

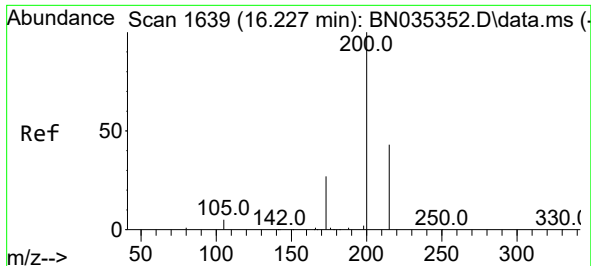
Tgt Ion:248 Resp: 2216  
Ion Ratio Lower Upper  
248 100  
250 90.4 80.6 120.8  
141 85.8 31.5 47.3#



#22  
Hexachlorobenzene  
Concen: 0.438 ng  
RT: 16.003 min Scan# 1621  
Delta R.T. -0.013 min  
Lab File: BN035731.D  
Acq: 20 Dec 2024 08:04

Tgt Ion:284 Resp: 3183  
Ion Ratio Lower Upper  
284 100  
142 30.7 26.7 40.1  
249 30.4 24.6 36.8

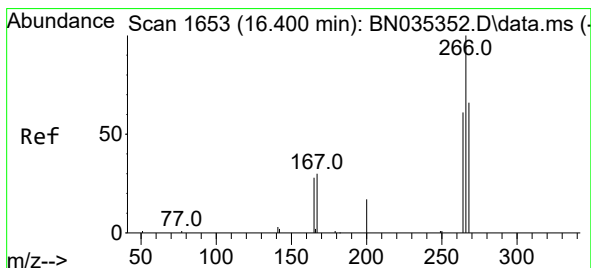
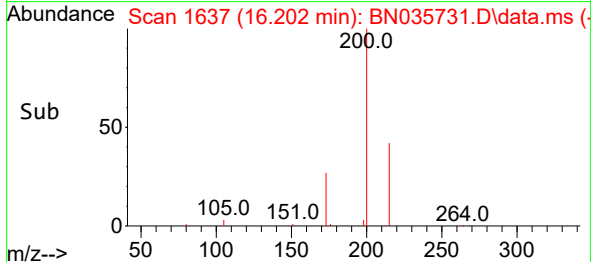
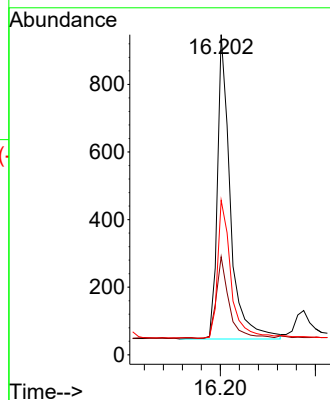
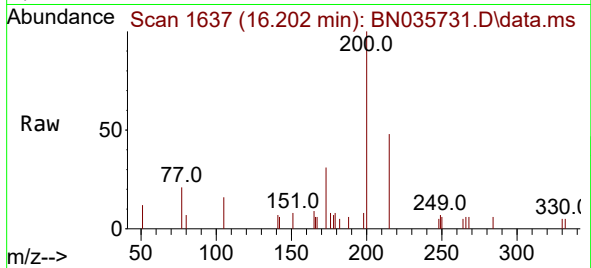




#23  
 Atrazine  
 Concen: 0.385 ng  
 RT: 16.202 min Scan# 1637  
 Delta R.T. -0.000 min  
 Lab File: BN035731.D  
 Acq: 20 Dec 2024 08:04

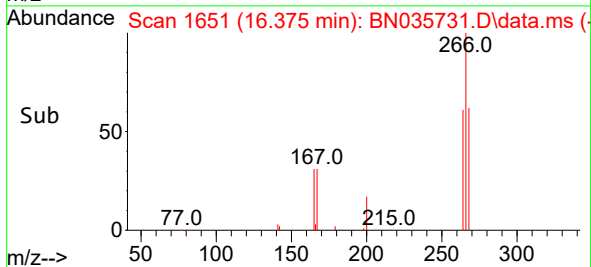
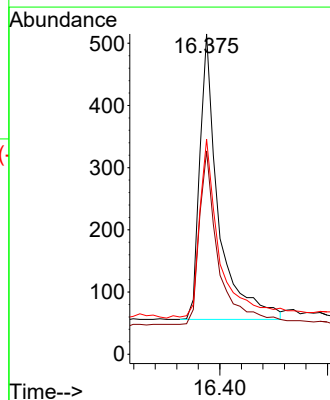
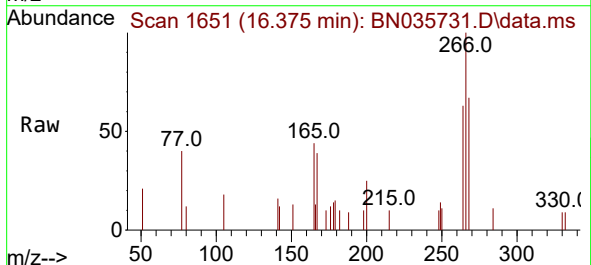
Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4

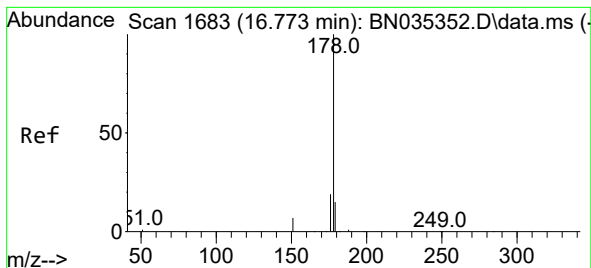
Tgt Ion:200 Resp: 1696  
 Ion Ratio Lower Upper  
 200 100  
 173 30.6 24.1 36.1  
 215 48.3 36.9 55.3



#24  
 Pentachlorophenol  
 Concen: 0.350 ng  
 RT: 16.375 min Scan# 1651  
 Delta R.T. -0.000 min  
 Lab File: BN035731.D  
 Acq: 20 Dec 2024 08:04

Tgt Ion:266 Resp: 1107  
 Ion Ratio Lower Upper  
 266 100  
 264 62.6 42.3 63.5  
 268 68.5 43.3 64.9#





#25

Phenanthrene

Concen: 0.351 ng

RT: 16.748 min Scan# 1681

Delta R.T. -0.000 min

Lab File: BN035731.D

Acq: 20 Dec 2024 08:04

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

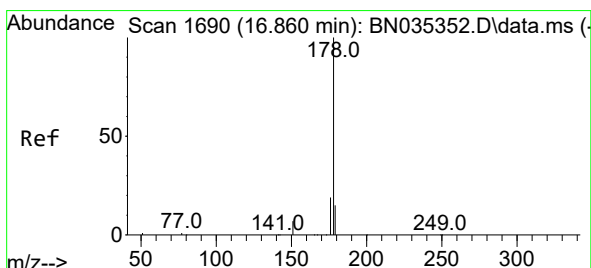
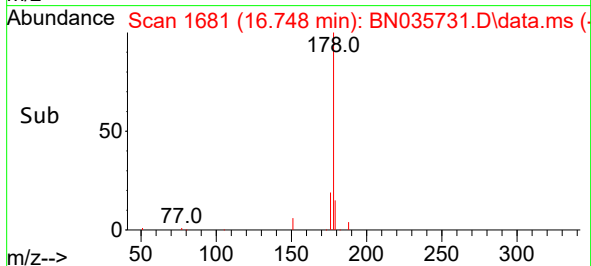
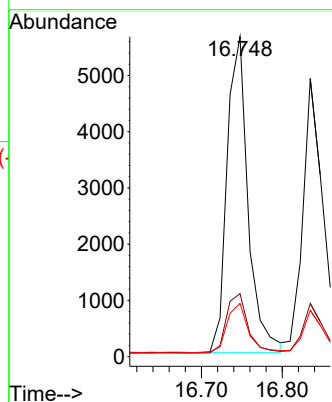
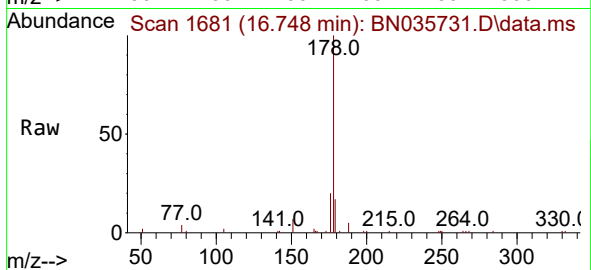
Tgt Ion:178 Resp: 10192

Ion Ratio Lower Upper

178 100

176 19.2 15.4 23.2

179 15.7 12.3 18.5



#26

Anthracene

Concen: 0.346 ng

RT: 16.835 min Scan# 1688

Delta R.T. -0.000 min

Lab File: BN035731.D

Acq: 20 Dec 2024 08:04

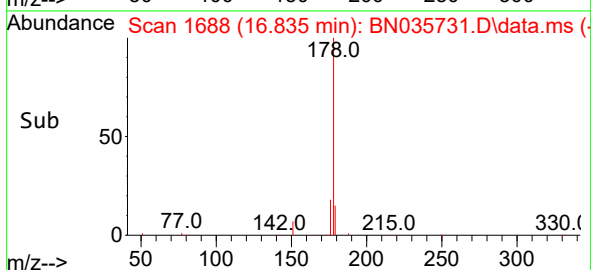
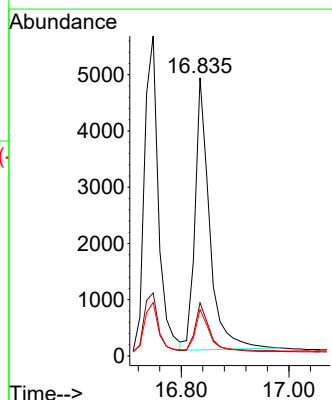
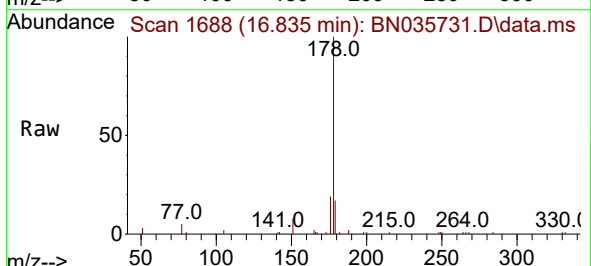
Tgt Ion:178 Resp: 9082

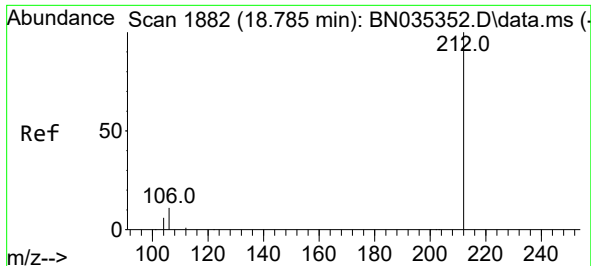
Ion Ratio Lower Upper

178 100

176 18.1 15.0 22.6

179 15.6 12.6 18.8

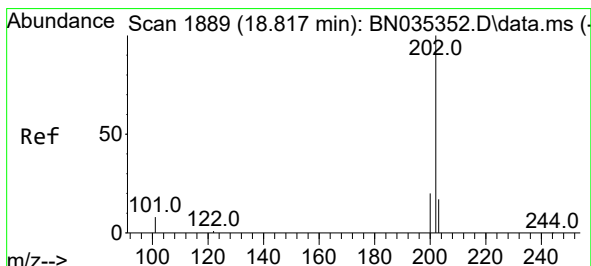
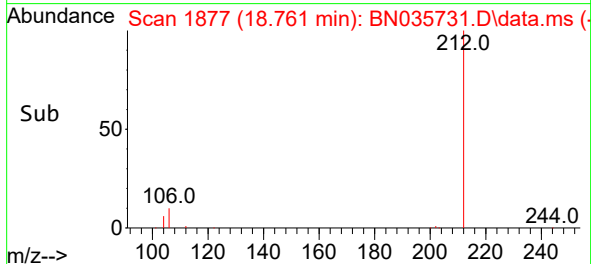
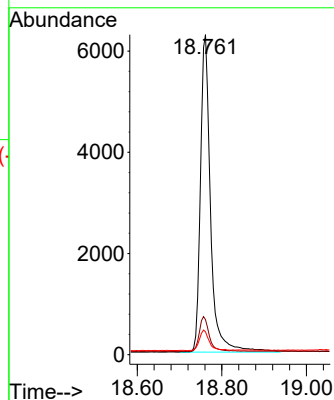
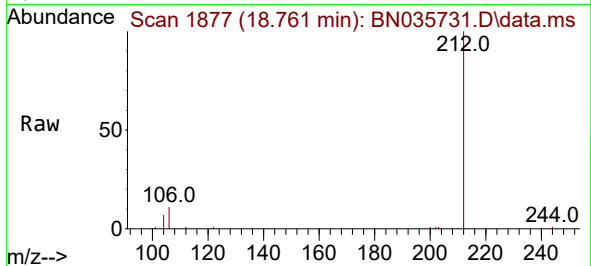




#27  
Fluoranthene-d10  
Concen: 0.347 ng  
RT: 18.761 min Scan# 1877  
Delta R.T. -0.000 min  
Lab File: BN035731.D  
Acq: 20 Dec 2024 08:04

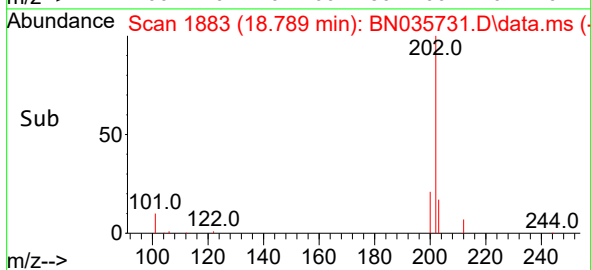
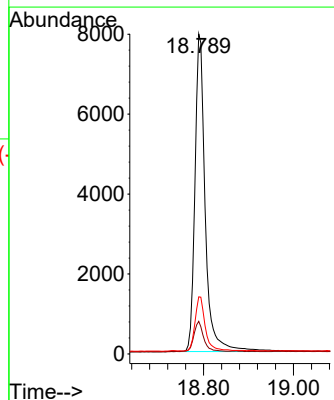
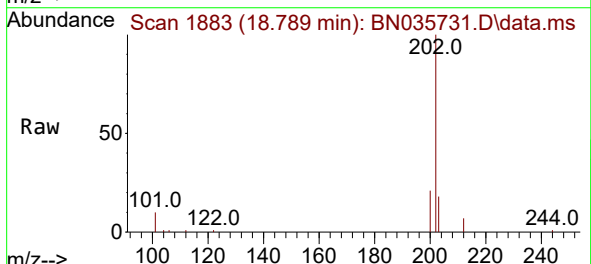
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

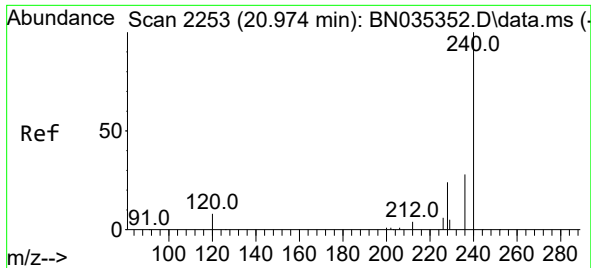
Tgt Ion:212 Resp: 10416  
Ion Ratio Lower Upper  
212 100  
106 10.8 9.2 13.8  
104 6.3 5.3 7.9



#28  
Fluoranthene  
Concen: 0.324 ng  
RT: 18.789 min Scan# 1883  
Delta R.T. -0.000 min  
Lab File: BN035731.D  
Acq: 20 Dec 2024 08:04

Tgt Ion:202 Resp: 12678  
Ion Ratio Lower Upper  
202 100  
101 9.4 7.4 11.0  
203 16.7 13.7 20.5

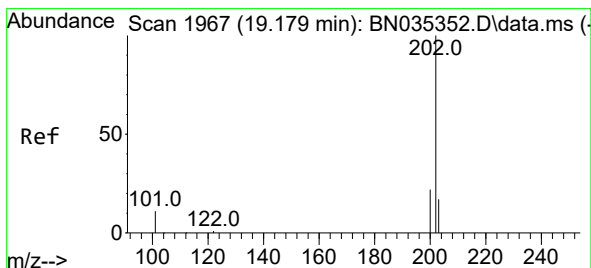
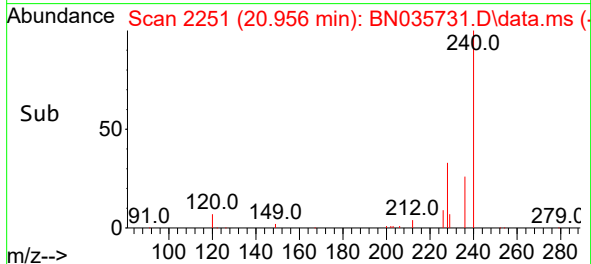
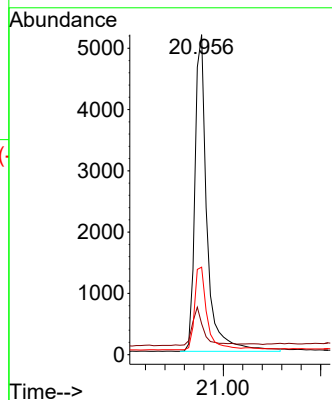
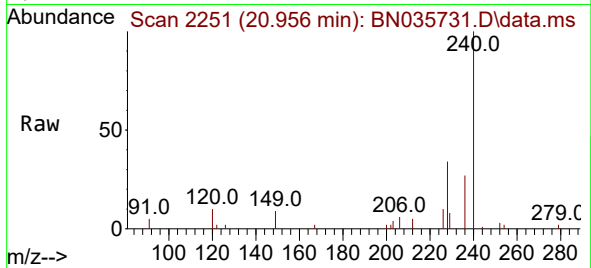




#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 20.956 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: BN035731.D  
Acq: 20 Dec 2024 08:04

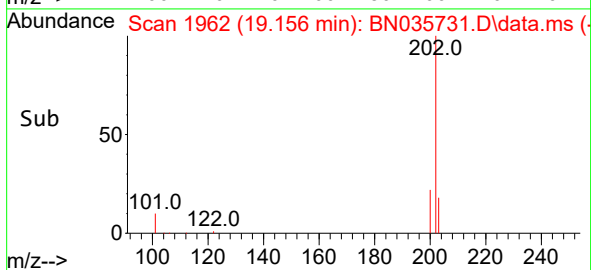
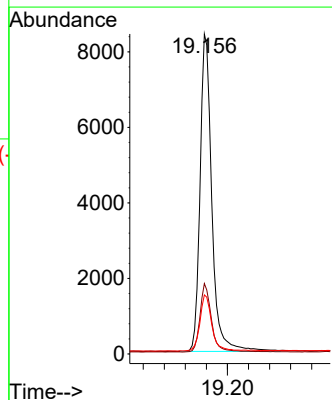
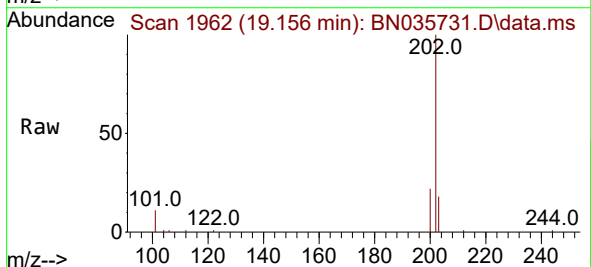
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

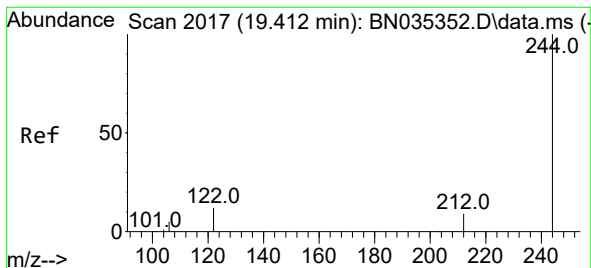
Tgt Ion:240 Resp: 8878  
Ion Ratio Lower Upper  
240 100  
120 9.6 7.9 11.9  
236 27.4 22.9 34.3



#30  
Pyrene  
Concen: 0.399 ng  
RT: 19.156 min Scan# 1962  
Delta R.T. -0.005 min  
Lab File: BN035731.D  
Acq: 20 Dec 2024 08:04

Tgt Ion:202 Resp: 13069  
Ion Ratio Lower Upper  
202 100  
200 21.0 17.0 25.4  
203 17.8 14.3 21.5





#31

Terphenyl-d14

Concen: 0.426 ng

RT: 19.388 min Scan# 2017

Delta R.T. -0.000 min

Lab File: BN035731.D

Acq: 20 Dec 2024 08:04

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

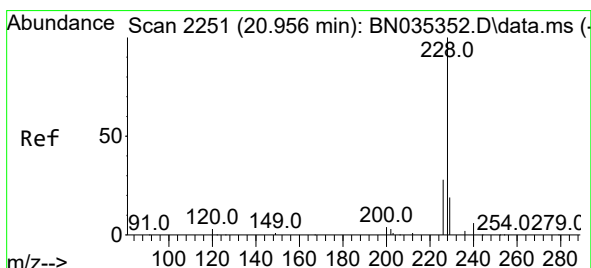
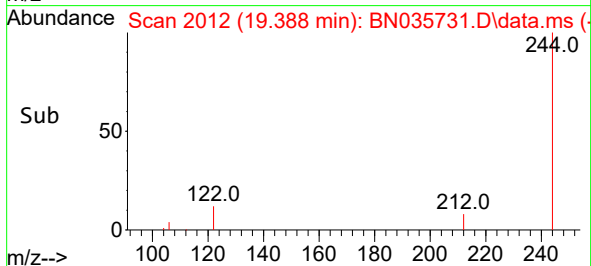
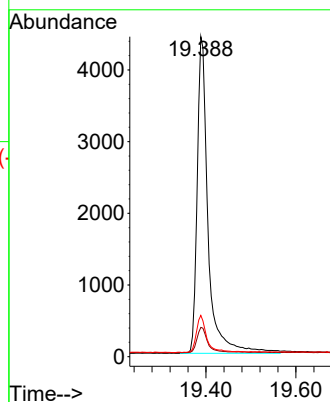
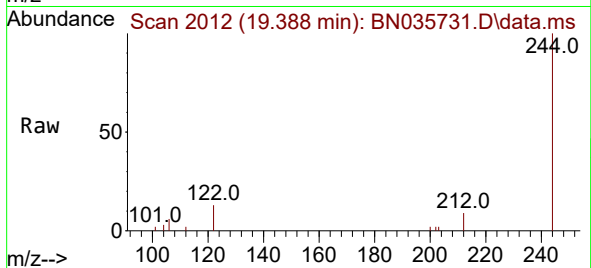
Tgt Ion:244 Resp: 7453

Ion Ratio Lower Upper

244 100

212 9.2 8.1 12.1

122 12.9 10.3 15.5



#32

Benzo(a)anthracene

Concen: 0.339 ng

RT: 20.938 min Scan# 2249

Delta R.T. -0.000 min

Lab File: BN035731.D

Acq: 20 Dec 2024 08:04

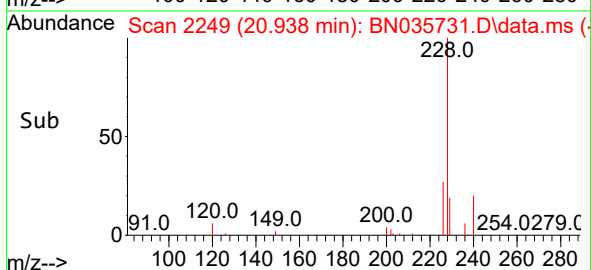
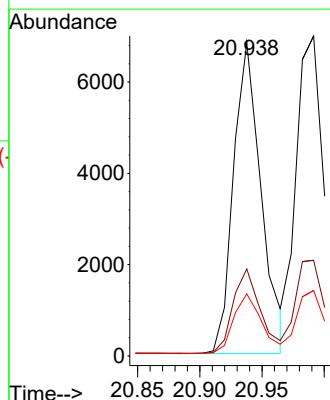
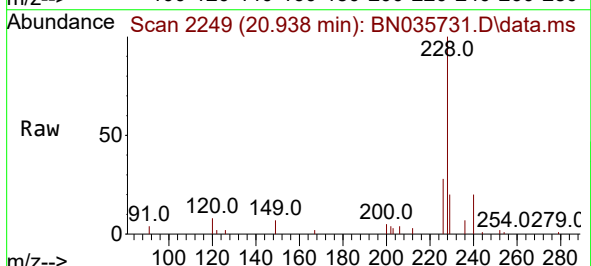
Tgt Ion:228 Resp: 10542

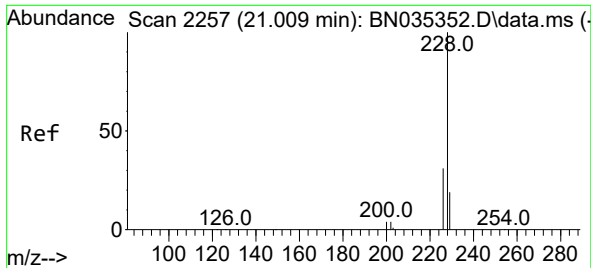
Ion Ratio Lower Upper

228 100

226 27.8 22.5 33.7

229 19.8 15.8 23.8

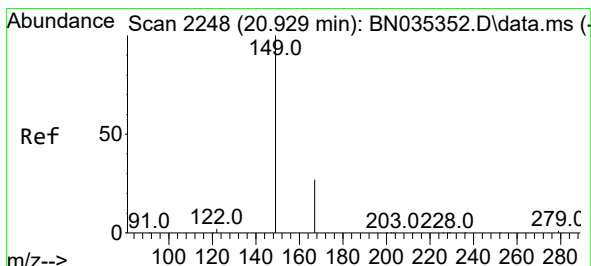
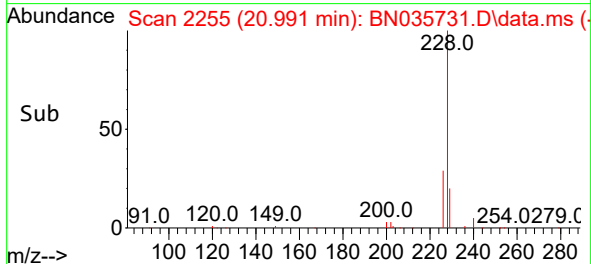
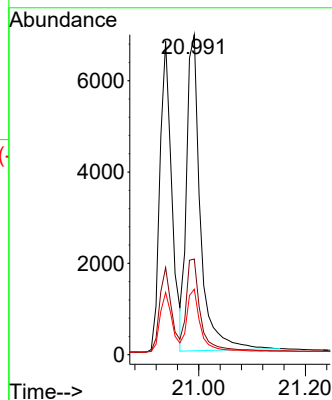
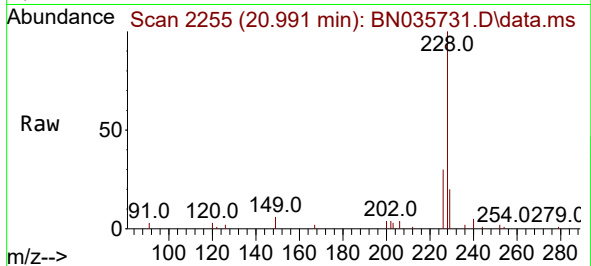




#33  
Chrysene  
Concen: 0.389 ng  
RT: 20.991 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: BN035731.D  
Acq: 20 Dec 2024 08:04

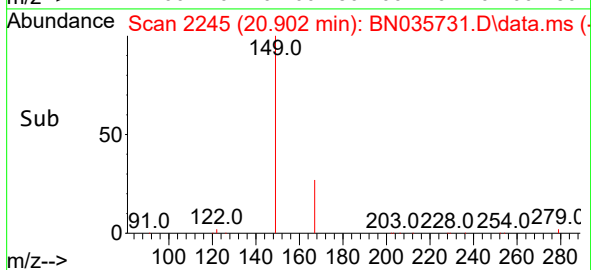
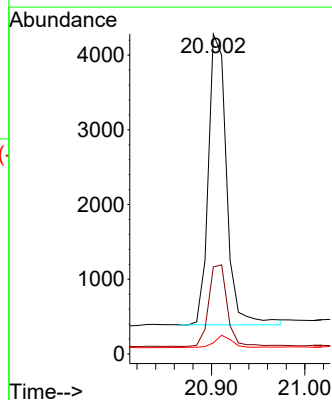
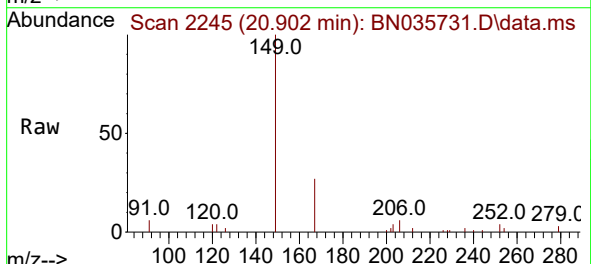
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

Tgt Ion:228 Resp: 12448  
Ion Ratio Lower Upper  
228 100  
226 29.9 24.6 37.0  
229 20.4 15.9 23.9

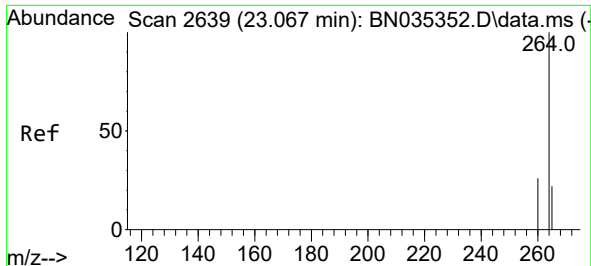


#34  
Bis(2-ethylhexyl)phthalate  
Concen: 0.430 ng  
RT: 20.902 min Scan# 2245  
Delta R.T. -0.009 min  
Lab File: BN035731.D  
Acq: 20 Dec 2024 08:04

Tgt Ion:149 Resp: 5271  
Ion Ratio Lower Upper  
149 100  
167 28.6 22.2 33.4  
279 3.9 2.7 4.1



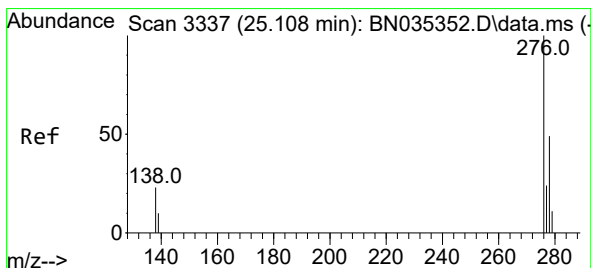
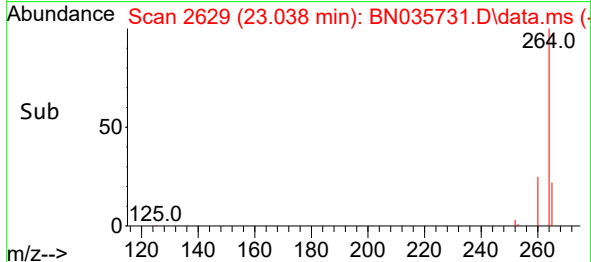
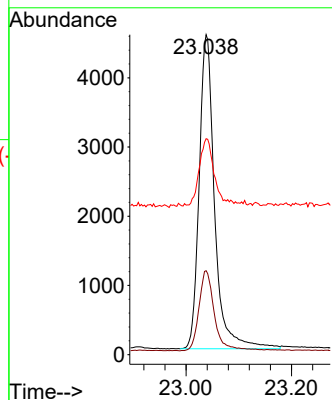
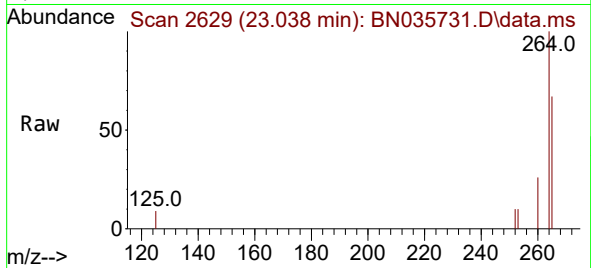




#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.038 min Scan# 2629  
Delta R.T. -0.003 min  
Lab File: BN035731.D  
Acq: 20 Dec 2024 08:04

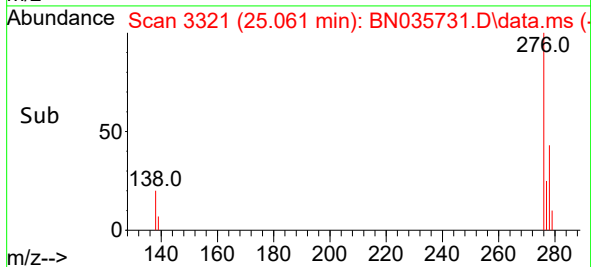
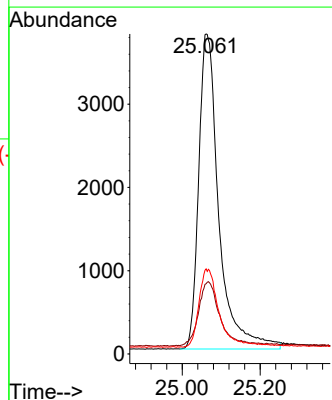
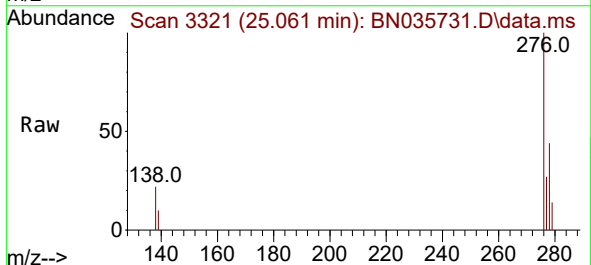
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

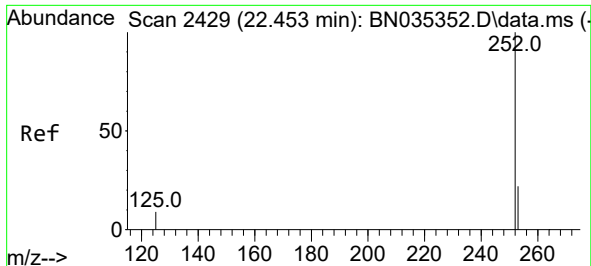
Tgt Ion:264 Resp: 9229  
Ion Ratio Lower Upper  
264 100  
260 26.2 21.4 32.2  
265 67.5 40.2 60.4#



#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.376 ng  
RT: 25.061 min Scan# 3321  
Delta R.T. -0.006 min  
Lab File: BN035731.D  
Acq: 20 Dec 2024 08:04

Tgt Ion:276 Resp: 13578  
Ion Ratio Lower Upper  
276 100  
138 21.2 19.4 29.0  
277 24.0 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.438 ng

RT: 22.427 min Scan# 2420

Delta R.T. -0.003 min

Lab File: BN035731.D

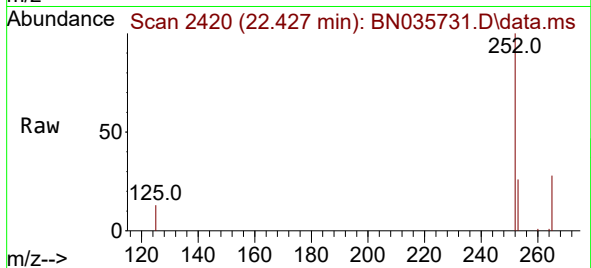
Acq: 20 Dec 2024 08:04

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4



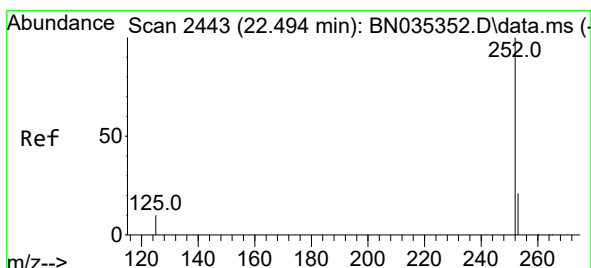
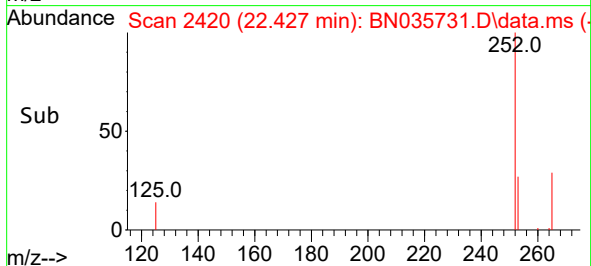
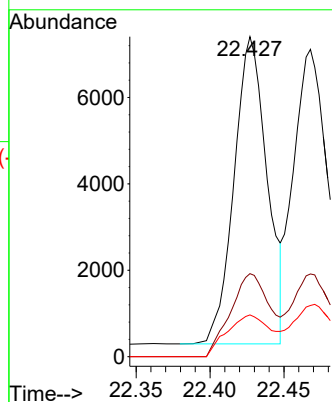
Tgt Ion:252 Resp: 14777

Ion Ratio Lower Upper

252 100

253 25.9 19.6 29.4

125 13.1 9.6 14.4



#38

Benzo(k)fluoranthene

Concen: 0.445 ng

RT: 22.427 min Scan# 2420

Delta R.T. -0.044 min

Lab File: BN035731.D

Acq: 20 Dec 2024 08:04

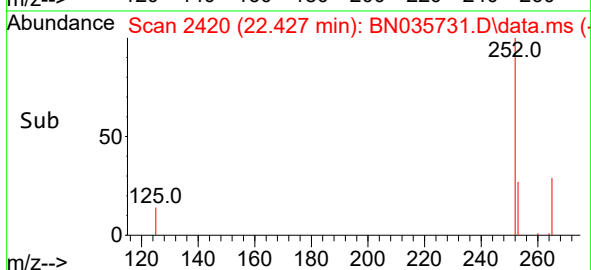
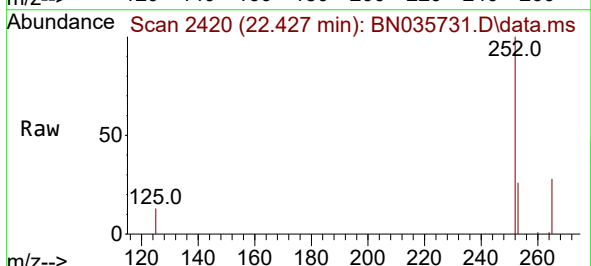
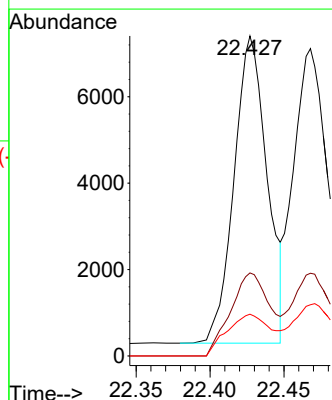
Tgt Ion:252 Resp: 14777

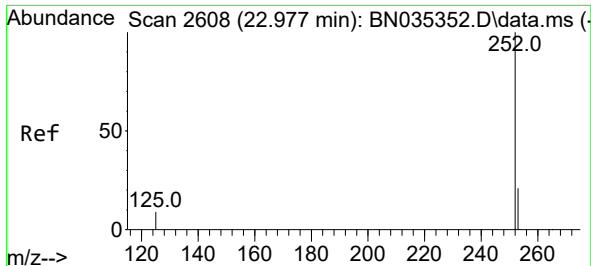
Ion Ratio Lower Upper

252 100

253 25.9 19.5 29.3

125 13.1 10.2 15.4





#39

Benzo(a)pyrene

Concen: 0.365 ng

RT: 22.947 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN035731.D

Acq: 20 Dec 2024 08:04

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

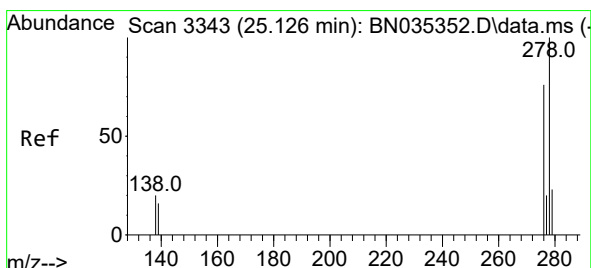
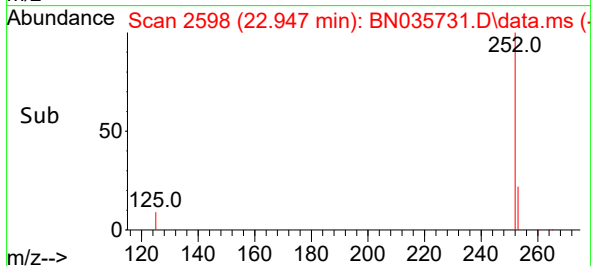
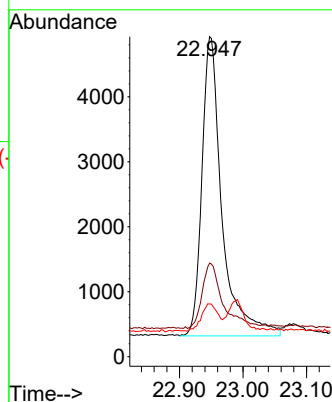
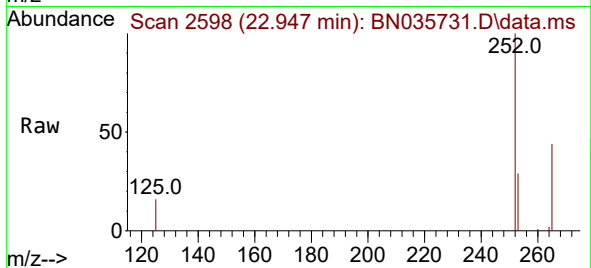
Tgt Ion:252 Resp: 10146

Ion Ratio Lower Upper

252 100

253 29.2 20.2 30.4

125 16.5 10.9 16.3#



#40

Dibenzo(a,h)anthracene

Concen: 0.370 ng

RT: 25.079 min Scan# 3327

Delta R.T. -0.003 min

Lab File: BN035731.D

Acq: 20 Dec 2024 08:04

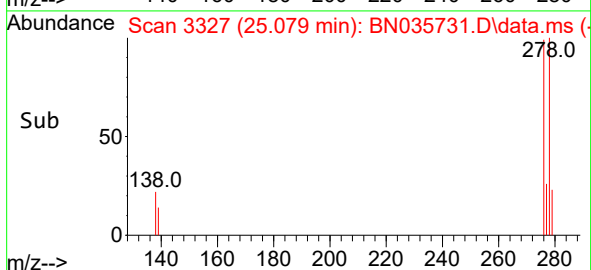
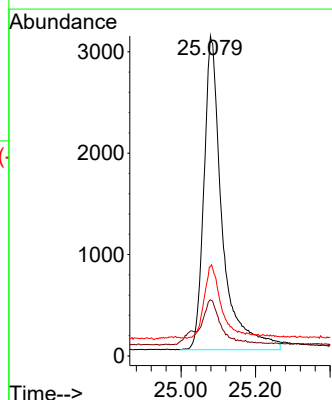
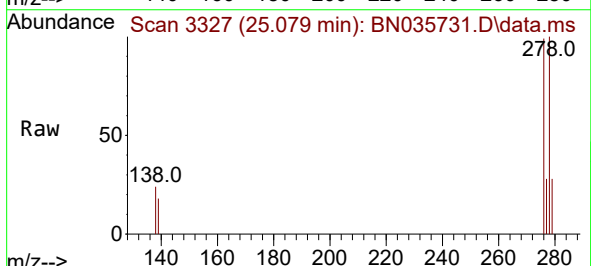
Tgt Ion:278 Resp: 10523

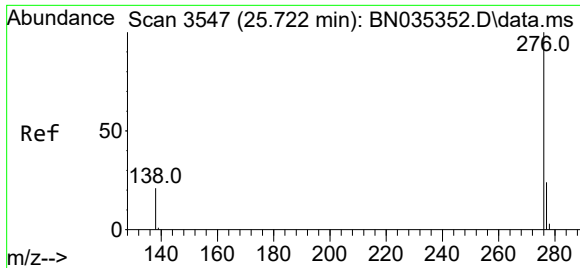
Ion Ratio Lower Upper

278 100

139 17.5 14.2 21.4

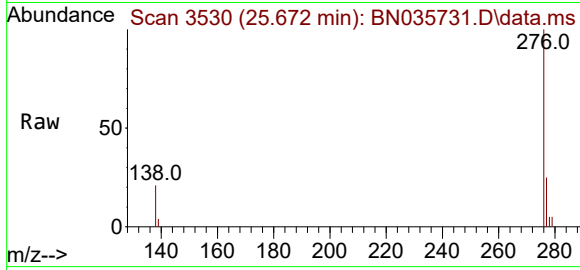
279 27.9 20.5 30.7



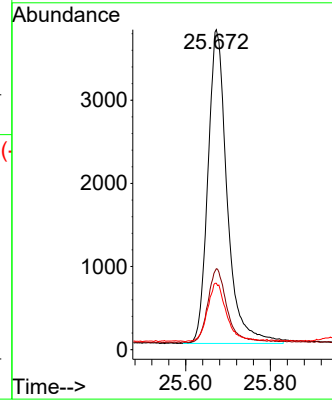
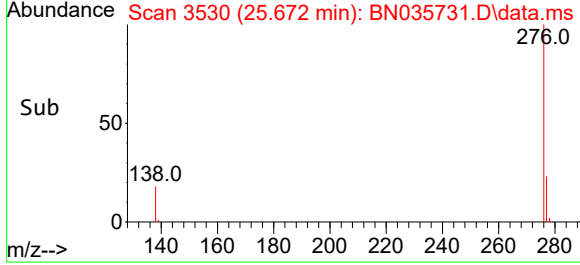


#41  
Benzo(g,h,i)perylene  
Concen: 0.400 ng  
RT: 25.672 min Scan# 31  
Delta R.T. -0.006 min  
Lab File: BN035731.D  
Acq: 20 Dec 2024 08:04

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 276   | Resp: | 11906 |
| Ion      | Ratio | Lower | Upper |
| 276      | 100   |       |       |
| 277      | 25.3  | 19.9  | 29.9  |
| 138      | 20.7  | 17.8  | 26.8  |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN121924\  
 Data File : BN035735.D  
 Acq On : 20 Dec 2024 11:05  
 Operator : RC/JU  
 Sample : P5280-04MS  
 Misc :  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 BPOW6-11-20241212MS

Quant Time: Dec 20 11:38:22 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Dec 19 23:06:19 2024  
 Response via : Initial Calibration

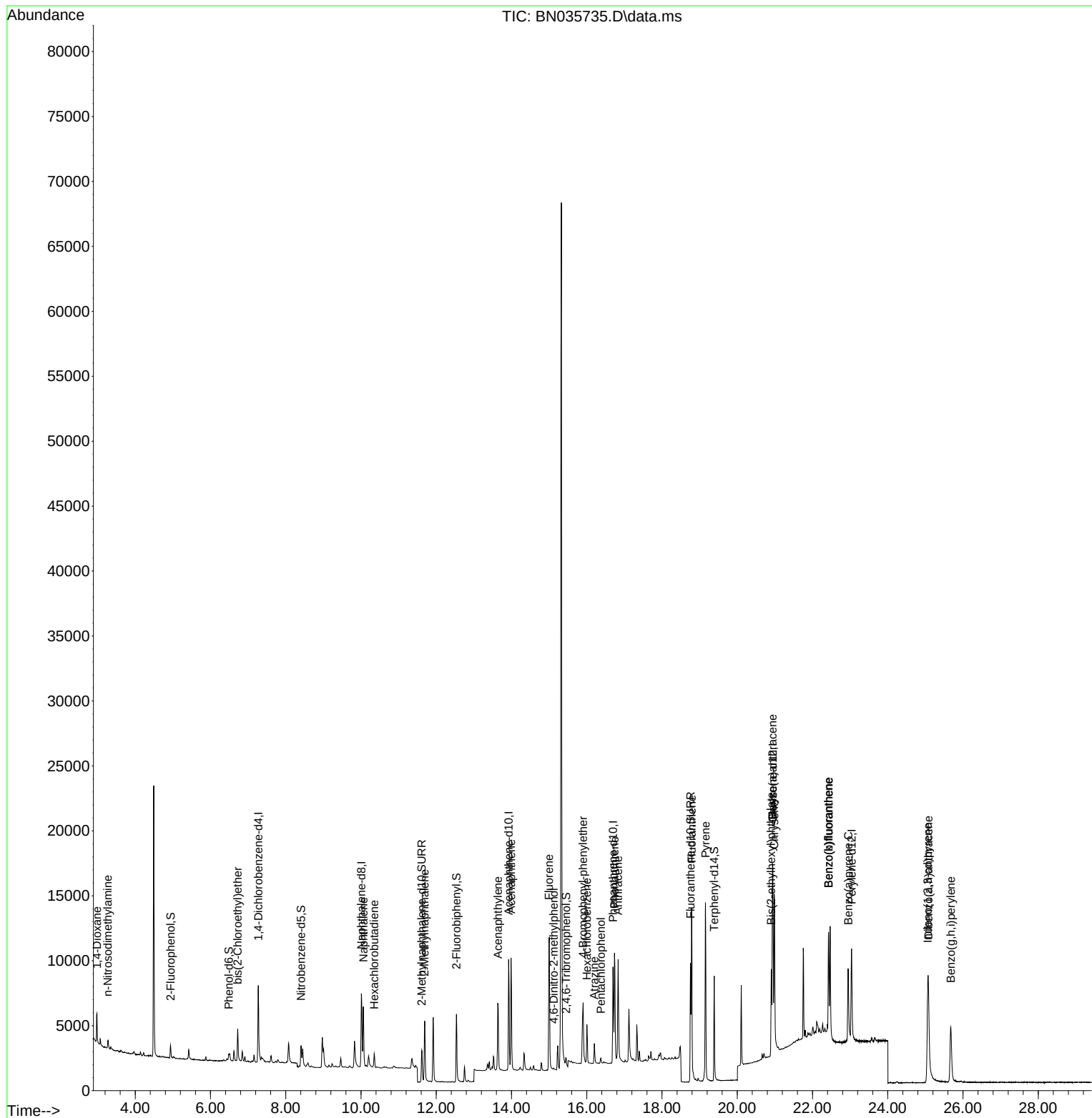
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.271  | 152  | 3051     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.009 | 136  | 8358     | 0.400 | ng    | -0.01    |
| 13) Acenaphthene-d10          | 13.924 | 164  | 5197     | 0.400 | ng    | -0.01    |
| 19) Phenanthrene-d10          | 16.698 | 188  | 10502    | 0.400 | ng    | # 0.00   |
| 29) Chrysene-d12              | 20.947 | 240  | 9278     | 0.400 | ng    | # 0.00   |
| 35) Perylene-d12              | 23.038 | 264  | 9467     | 0.400 | ng    | # 0.00   |
|                               |        |      |          |       |       |          |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 4.939  | 112  | 857      | 0.112 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.484  | 99   | 610      | 0.066 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.408  | 82   | 2016     | 0.395 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.615 | 152  | 4131     | 0.316 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.453 | 330  | 679      | 0.184 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.538 | 172  | 5479     | 0.279 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 18.757 | 212  | 11313    | 0.380 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.388 | 244  | 8932     | 0.488 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| Target Compounds              |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 2.981  | 88   | 1540     | 0.528 | ng    | # 84     |
| 3) n-Nitrosodimethylamine     | 3.270  | 42   | 330      | 0.136 | ng    | # 78     |
| 6) bis(2-Chloroethyl)ether    | 6.723  | 93   | 2206     | 0.286 | ng    | 98       |
| 9) Naphthalene                | 10.062 | 128  | 6003     | 0.272 | ng    | 99       |
| 10) Hexachlorobutadiene       | 10.351 | 225  | 846      | 0.166 | ng    | # 98     |
| 12) 2-Methylnaphthalene       | 11.691 | 142  | 3950     | 0.250 | ng    | 99       |
| 16) Acenaphthylene            | 13.636 | 152  | 6604     | 0.303 | ng    | 100      |
| 17) Acenaphthene              | 13.988 | 154  | 4230     | 0.292 | ng    | 98       |
| 18) Fluorene                  | 14.993 | 166  | 5719     | 0.276 | ng    | 100      |
| 20) 4,6-Dinitro-2-methylph... | 15.122 | 198  | 103      | 0.100 | ng    | # 1      |
| 21) 4-Bromophenyl-phenylether | 15.904 | 248  | 2167     | 0.353 | ng    | # 84     |
| 22) Hexachlorobenzene         | 16.003 | 284  | 2445     | 0.339 | ng    | 96       |
| 23) Atrazine                  | 16.202 | 200  | 1259     | 0.288 | ng    | 94       |
| 24) Pentachlorophenol         | 16.375 | 266  | 273      | 0.087 | ng    | # 79     |
| 25) Phenanthrene              | 16.735 | 178  | 10260    | 0.356 | ng    | 100      |
| 26) Anthracene                | 16.835 | 178  | 8925     | 0.342 | ng    | 99       |
| 28) Fluoranthene              | 18.789 | 202  | 12930    | 0.332 | ng    | 99       |
| 30) Pyrene                    | 19.156 | 202  | 13495    | 0.394 | ng    | 99       |
| 32) Benzo(a)anthracene        | 20.938 | 228  | 11302    | 0.348 | ng    | 99       |
| 33) Chrysene                  | 20.982 | 228  | 12637    | 0.378 | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 20.902 | 149  | 6113     | 0.477 | ng    | # 97     |
| 36) Indeno(1,2,3-cd)pyrene    | 25.061 | 276  | 12412    | 0.335 | ng    | 97       |
| 37) Benzo(b)fluoranthene      | 22.427 | 252  | 18573    | 0.536 | ng    | 95       |
| 38) Benzo(k)fluoranthene      | 22.427 | 252  | 18573    | 0.545 | ng    | 96       |
| 39) Benzo(a)pyrene            | 22.950 | 252  | 9310     | 0.326 | ng    | # 90     |
| 40) Dibenzo(a,h)anthracene    | 25.082 | 278  | 9663     | 0.331 | ng    | 95       |
| 41) Benzo(g,h,i)perylene      | 25.675 | 276  | 9301     | 0.305 | ng    | 99       |
| -----                         |        |      |          |       |       |          |

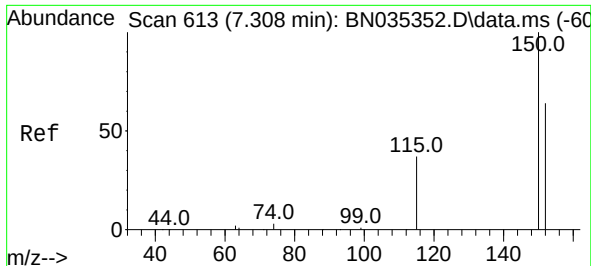
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN121924\  
Data File : BN035735.D  
Acq On : 20 Dec 2024 11:05  
Operator : RC/JU  
Sample : P5280-04MS  
Misc :  
ALS Vial : 26 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
BPOW6-11-20241212MS

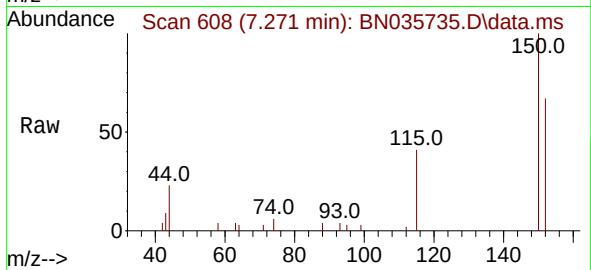
Quant Time: Dec 20 11:38:22 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Dec 19 23:06:19 2024  
Response via : Initial Calibration



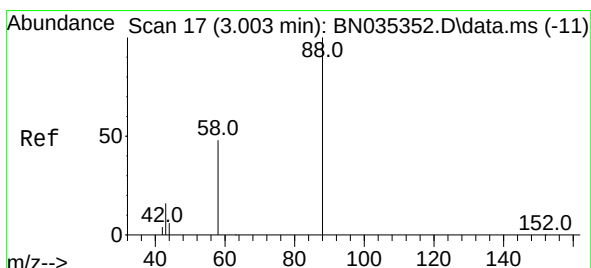
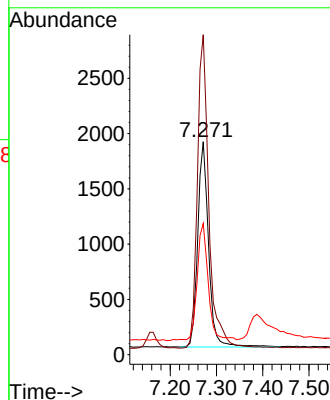
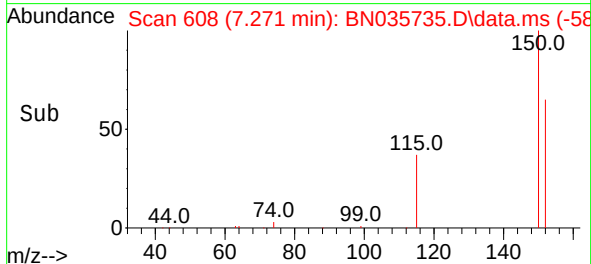


#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.271 min Scan# 61  
Delta R.T. -0.001 min  
Lab File: BN035735.D  
Acq: 20 Dec 2024 11:05

Instrument :  
BNA\_N  
ClientSampleId :  
BPOW6-11-20241212MS

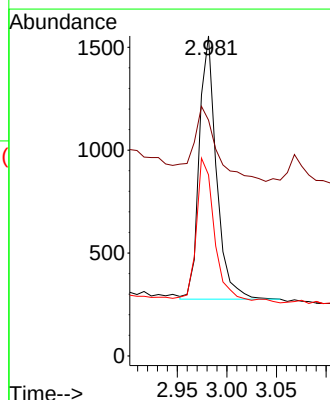
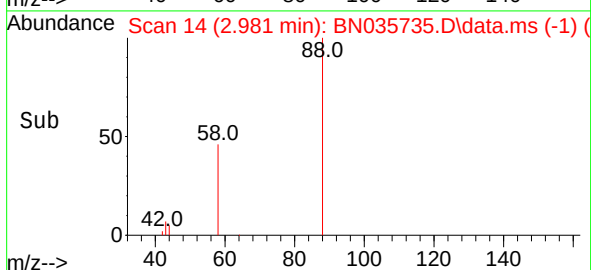
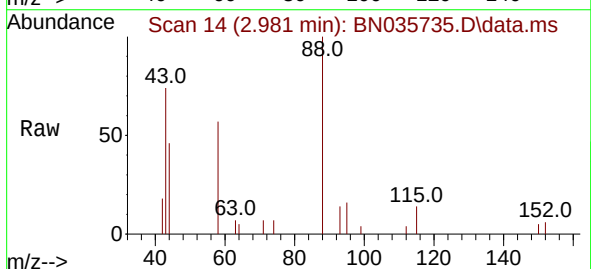


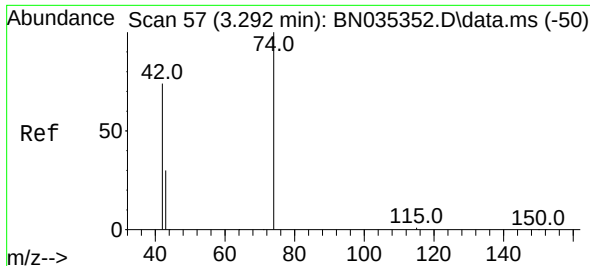
Tgt Ion:152 Resp: 3051  
Ion Ratio Lower Upper  
152 100  
150 150.2 124.0 186.0  
115 61.6 49.6 74.4



#2  
1,4-Dioxane  
Concen: 0.528 ng  
RT: 2.981 min Scan# 14  
Delta R.T. -0.000 min  
Lab File: BN035735.D  
Acq: 20 Dec 2024 11:05

Tgt Ion: 88 Resp: 1540  
Ion Ratio Lower Upper  
88 100  
43 40.1 17.2 25.8#  
58 60.8 44.5 66.7

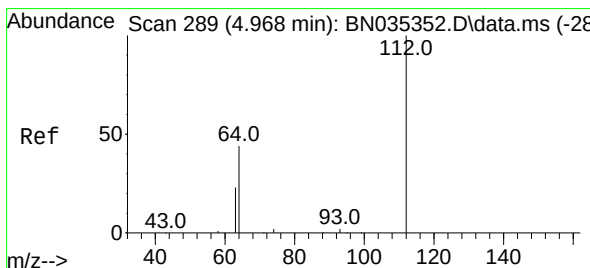
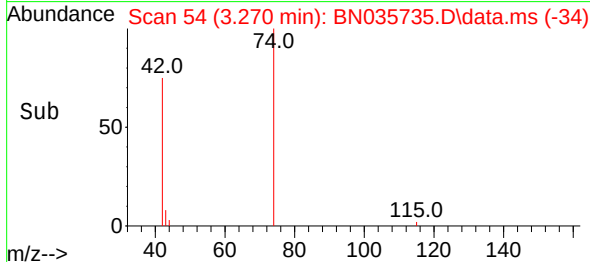
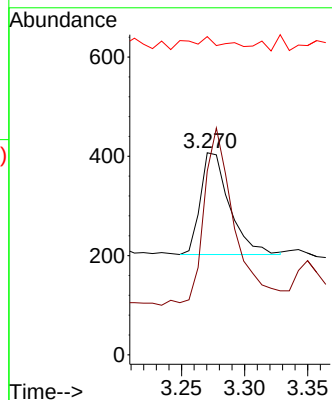
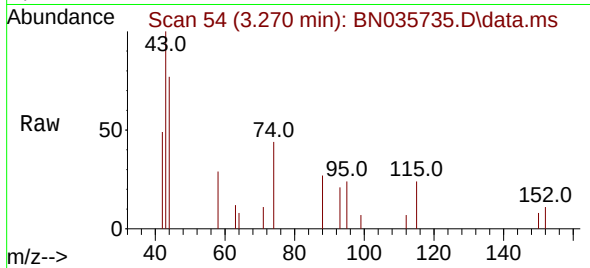




#3  
n-Nitrosodimethylamine  
Concen: 0.136 ng  
RT: 3.270 min Scan# 54  
Delta R.T. -0.007 min  
Lab File: BN035735.D  
Acq: 20 Dec 2024 11:05

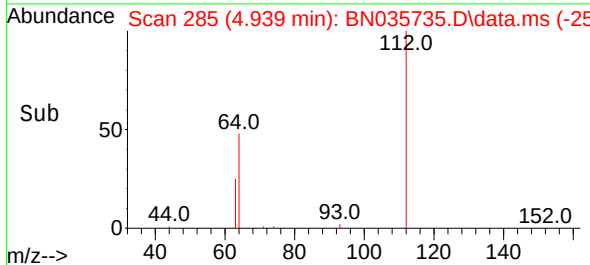
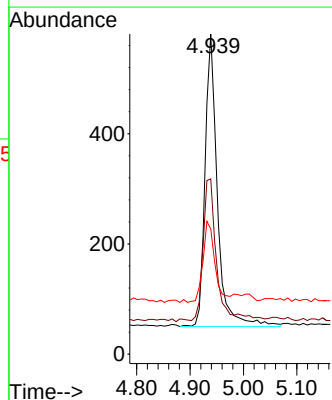
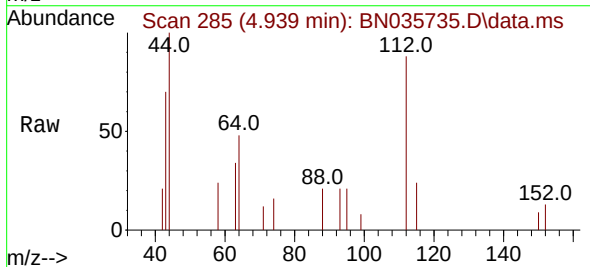
Instrument :  
BNA\_N  
ClientSampleId :  
BPOW6-11-20241212MS

Tgt Ion: 42 Resp: 330  
Ion Ratio Lower Upper  
42 100  
74 184.5 124.9 187.3  
44 0.0 2.2 3.4#

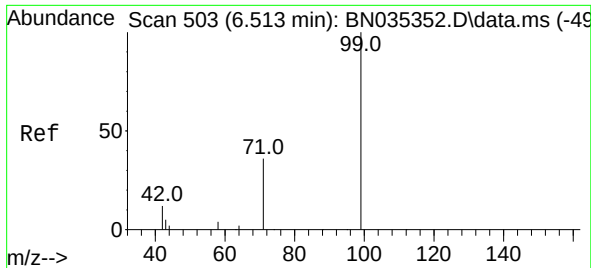


#4  
2-Fluorophenol  
Concen: 0.112 ng  
RT: 4.939 min Scan# 285  
Delta R.T. -0.000 min  
Lab File: BN035735.D  
Acq: 20 Dec 2024 11:05

Tgt Ion: 112 Resp: 857  
Ion Ratio Lower Upper  
112 100  
64 52.4 39.8 59.8  
63 26.8 21.0 31.6



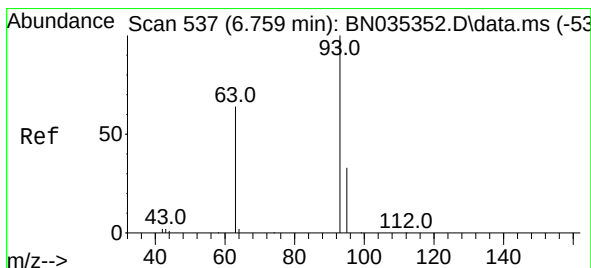
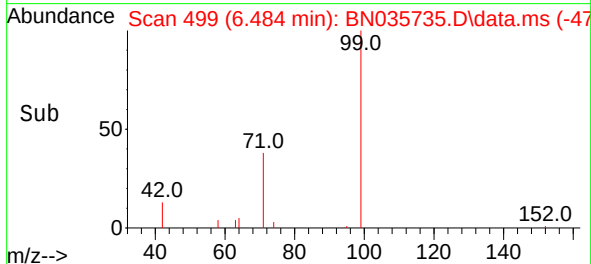
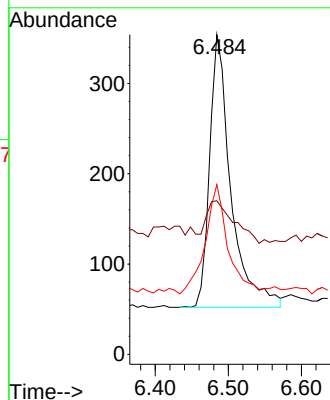
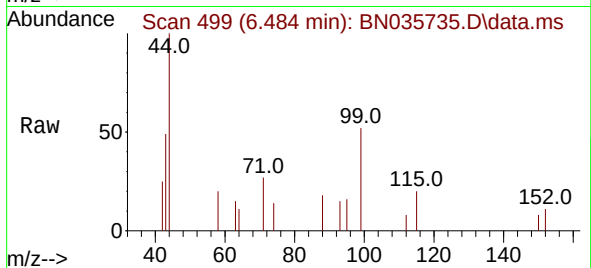




#5  
Phenol-d6  
Concen: 0.066 ng  
RT: 6.484 min Scan# 499  
Delta R.T. -0.007 min  
Lab File: BN035735.D  
Acq: 20 Dec 2024 11:05

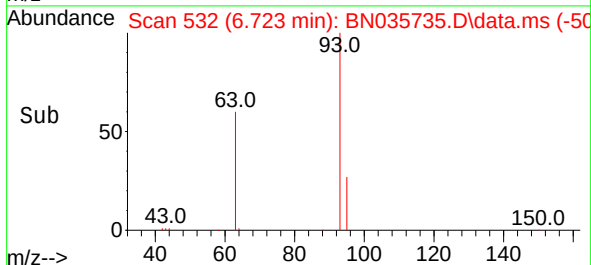
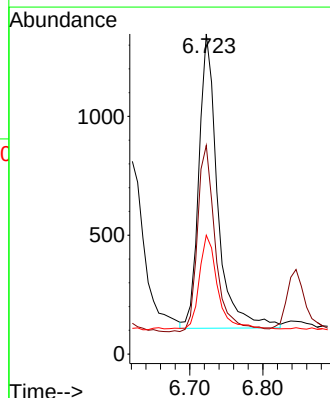
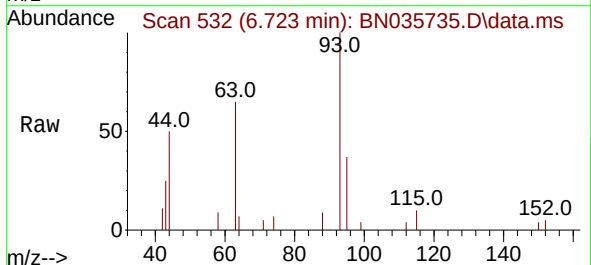
Instrument :  
BNA\_N  
ClientSampleId :  
BPOW6-11-20241212MS

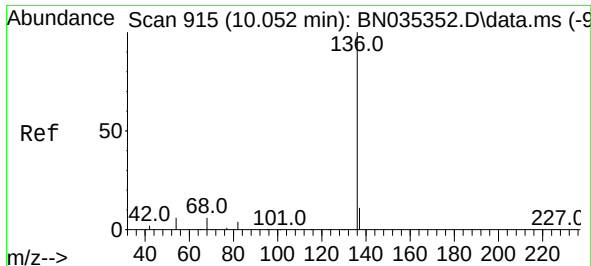
Tgt Ion: 99 Resp: 610  
Ion Ratio Lower Upper  
99 100  
42 19.2 11.4 17.2#  
71 43.3 29.3 43.9



#6  
bis(2-Chloroethyl)ether  
Concen: 0.286 ng  
RT: 6.723 min Scan# 532  
Delta R.T. -0.007 min  
Lab File: BN035735.D  
Acq: 20 Dec 2024 11:05

Tgt Ion: 93 Resp: 2206  
Ion Ratio Lower Upper  
93 100  
63 61.4 50.4 75.6  
95 30.6 25.7 38.5

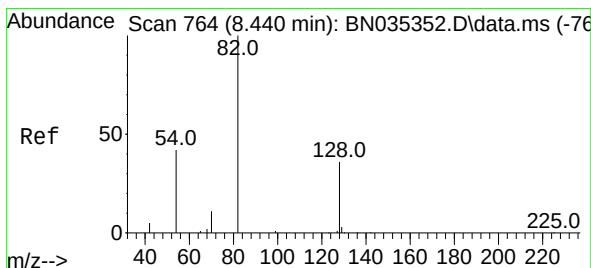
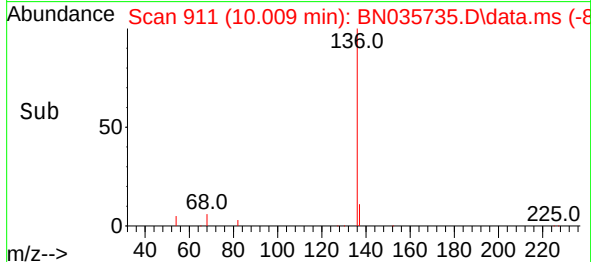
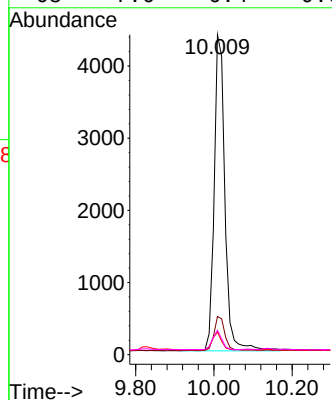
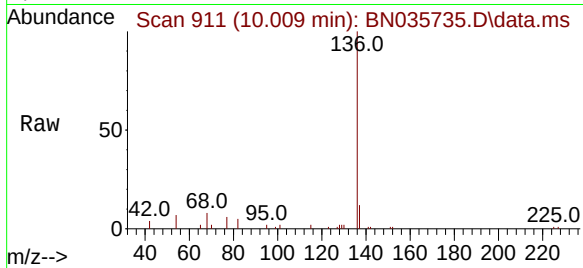




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.009 min Scan# 915  
Delta R.T. -0.011 min  
Lab File: BN035735.D  
Acq: 20 Dec 2024 11:05

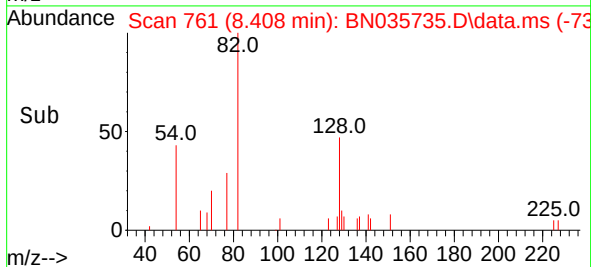
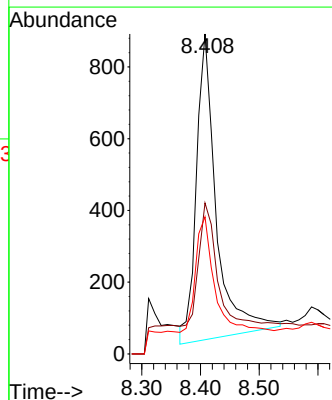
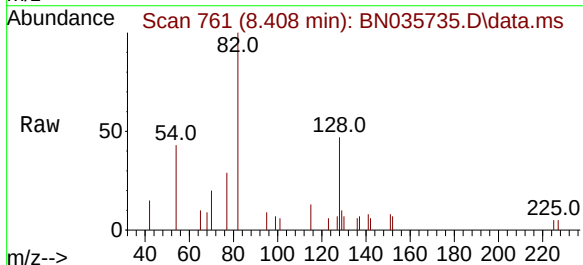
Instrument :  
BNA\_N  
ClientSampleId :  
BPOW6-11-20241212MS

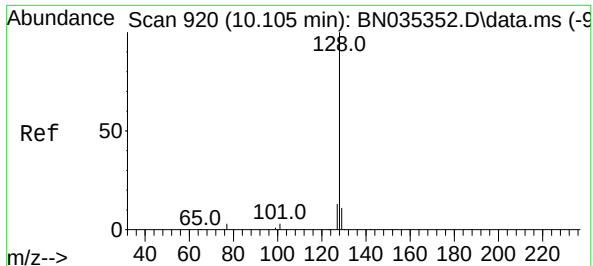
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 136   | Resp: | 8358 |
| Ion Ratio | Lower | Upper |      |
| 136       | 100   |       |      |
| 137       | 11.9  | 10.2  | 15.2 |
| 54        | 7.0   | 6.1   | 9.1  |
| 68        | 7.6   | 6.4   | 9.6  |



#8  
Nitrobenzene-d5  
Concen: 0.395 ng  
RT: 8.408 min Scan# 761  
Delta R.T. -0.000 min  
Lab File: BN035735.D  
Acq: 20 Dec 2024 11:05

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 82    | Resp: | 2016 |
| Ion Ratio | Lower | Upper |      |
| 82        | 100   |       |      |
| 128       | 47.2  | 33.4  | 50.0 |
| 54        | 42.8  | 36.7  | 55.1 |

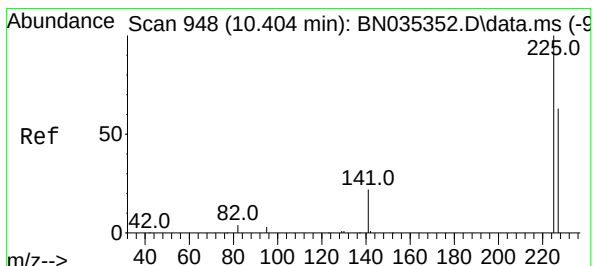
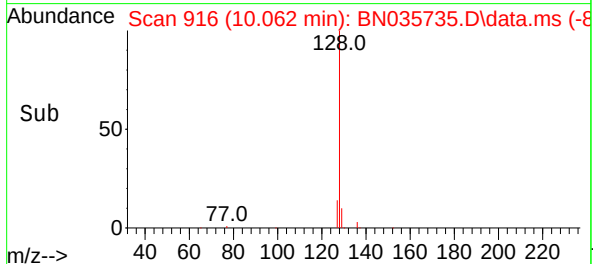
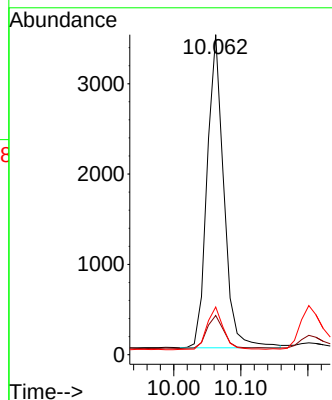
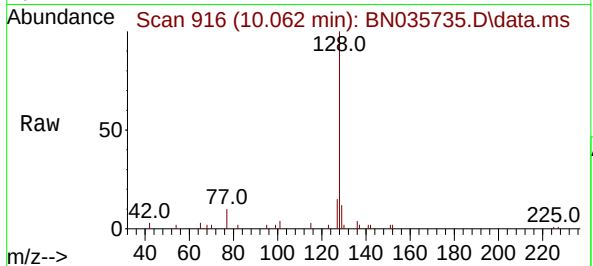




#9  
Naphthalene  
Concen: 0.272 ng  
RT: 10.062 min Scan# 916  
Delta R.T. -0.000 min  
Lab File: BN035735.D  
Acq: 20 Dec 2024 11:05

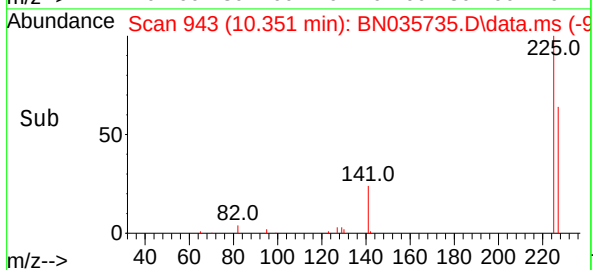
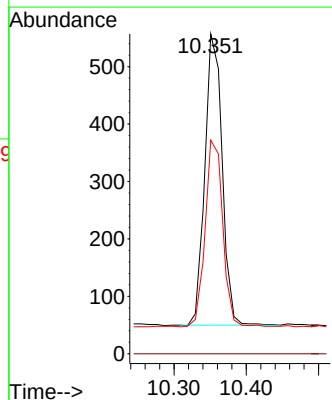
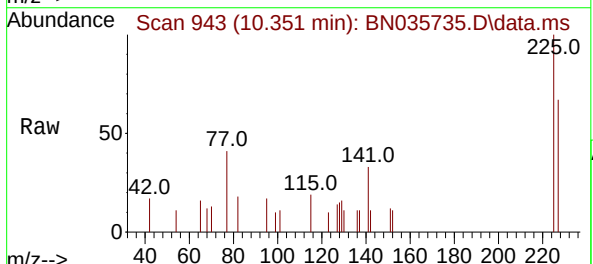
Instrument :  
BNA\_N  
ClientSampleId :  
BPOW6-11-20241212MS

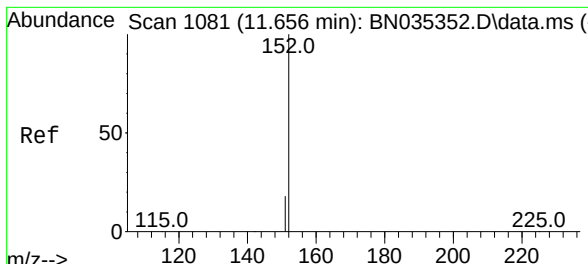
Tgt Ion:128 Resp: 6003  
Ion Ratio Lower Upper  
128 100  
129 12.3 9.8 14.6  
127 14.9 11.4 17.2



#10  
Hexachlorobutadiene  
Concen: 0.166 ng  
RT: 10.351 min Scan# 943  
Delta R.T. -0.011 min  
Lab File: BN035735.D  
Acq: 20 Dec 2024 11:05

Tgt Ion:225 Resp: 846  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 65.4 51.3 76.9

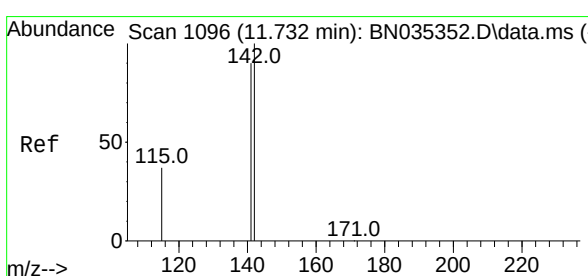
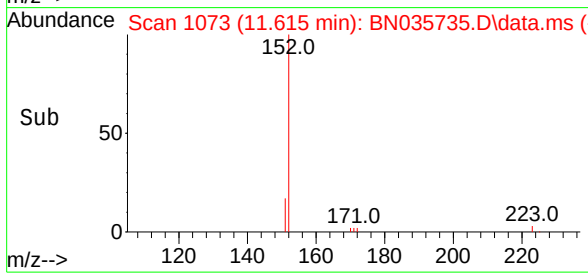
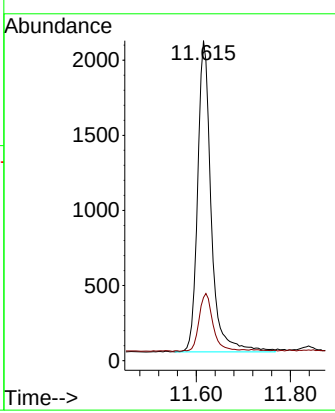
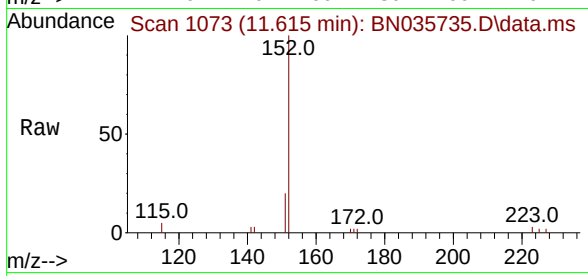




#11  
 2-Methylnaphthalene-d10  
 Concen: 0.316 ng  
 RT: 11.615 min Scan# 1087  
 Delta R.T. -0.005 min  
 Lab File: BN035735.D  
 Acq: 20 Dec 2024 11:05

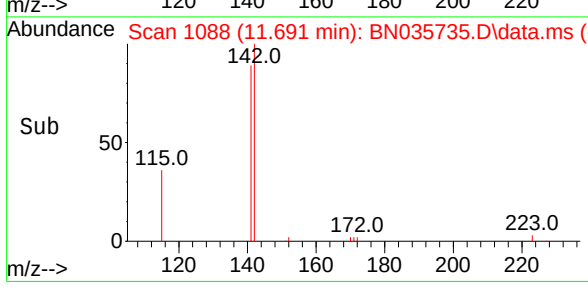
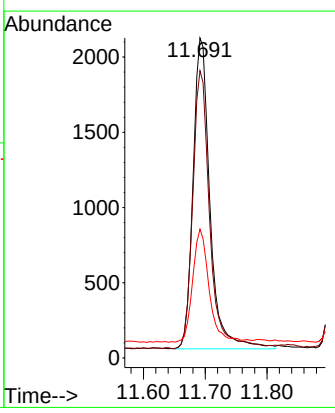
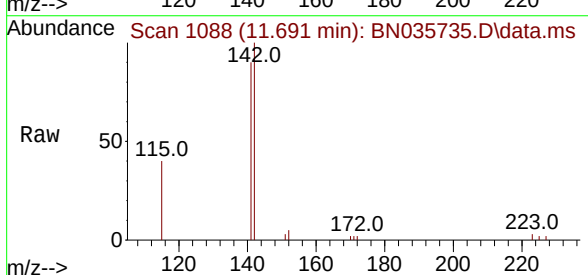
Instrument :  
 BNA\_N  
 ClientSampleId :  
 BPOW6-11-20241212MS

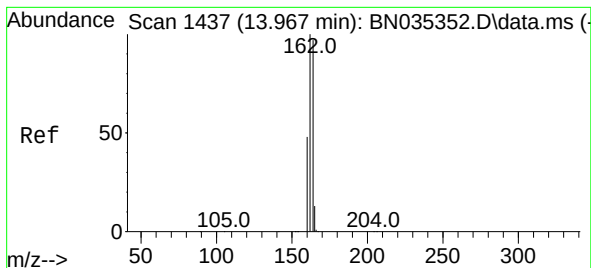
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 152   | Resp: | 4131 |
| Ion Ratio | Lower | Upper |      |
| 152       | 100   |       |      |
| 151       | 19.0  | 16.6  | 25.0 |



#12  
 2-Methylnaphthalene  
 Concen: 0.250 ng  
 RT: 11.691 min Scan# 1088  
 Delta R.T. -0.005 min  
 Lab File: BN035735.D  
 Acq: 20 Dec 2024 11:05

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 142   | Resp: | 3950  |
| Ion Ratio | Lower | Upper |       |
| 142       | 100   |       |       |
| 141       | 89.8  | 72.2  | 108.4 |
| 115       | 40.2  | 31.4  | 47.0  |





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 13.924 min Scan# 1433

Delta R.T. -0.011 min

Lab File: BN035735.D

Acq: 20 Dec 2024 11:05

Instrument :

BNA\_N

ClientSampleId :

BPOW6-11-20241212MS

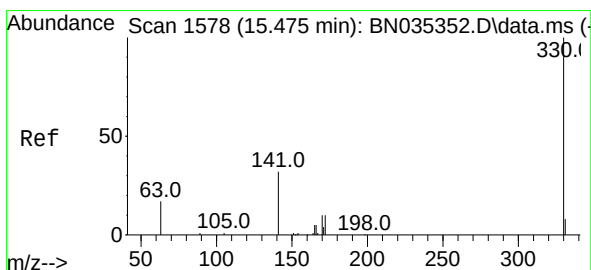
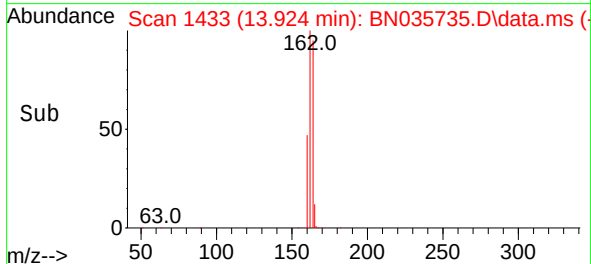
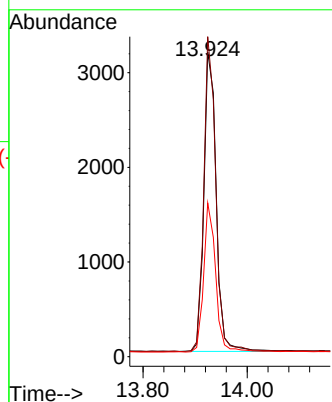
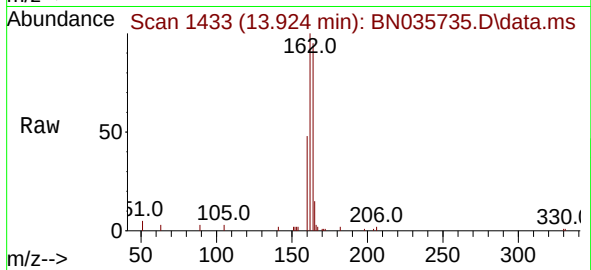
Tgt Ion:164 Resp: 5197

Ion Ratio Lower Upper

164 100

162 105.0 82.2 123.2

160 50.5 40.1 60.1



#14

2,4,6-Tribromophenol

Concen: 0.184 ng

RT: 15.453 min Scan# 1576

Delta R.T. -0.000 min

Lab File: BN035735.D

Acq: 20 Dec 2024 11:05

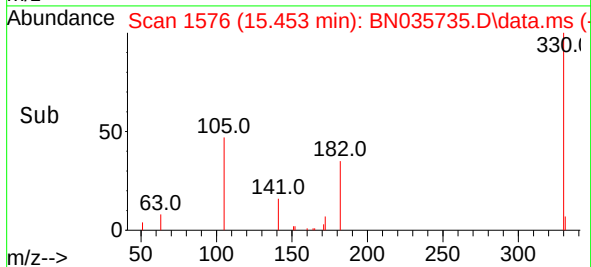
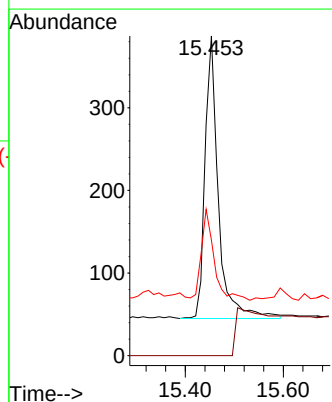
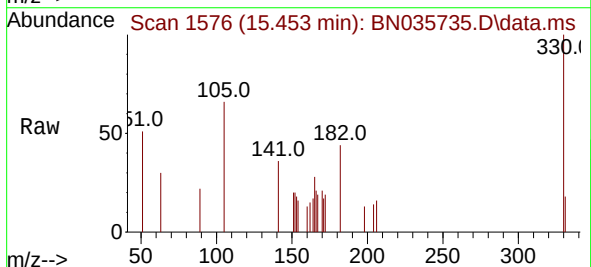
Tgt Ion:330 Resp: 679

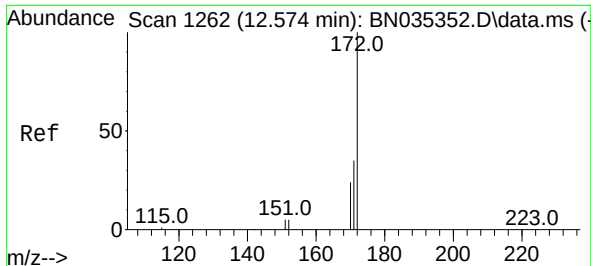
Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

141 29.9 26.6 40.0

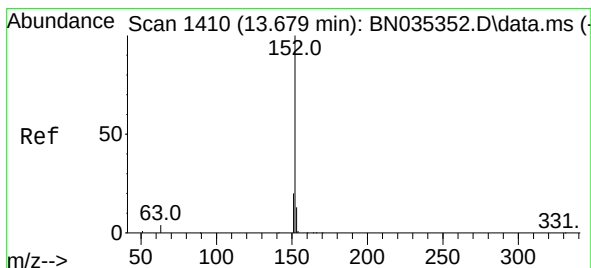
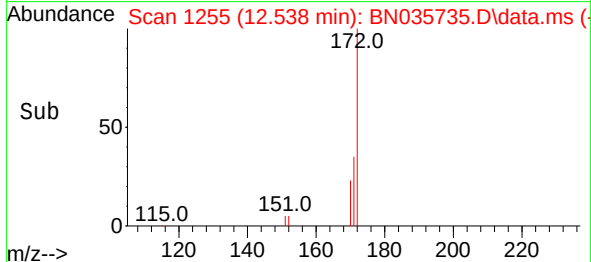
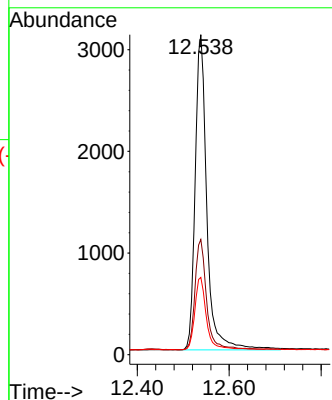
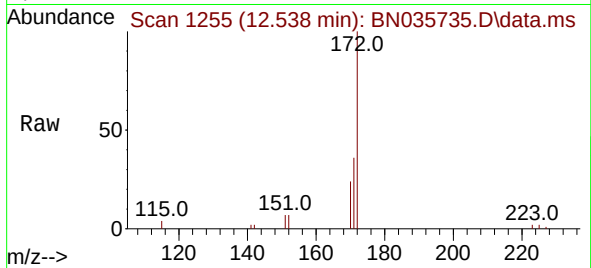




#15  
2-Fluorobiphenyl  
Concen: 0.279 ng  
RT: 12.538 min Scan# 1405  
Delta R.T. -0.005 min  
Lab File: BN035735.D  
Acq: 20 Dec 2024 11:05

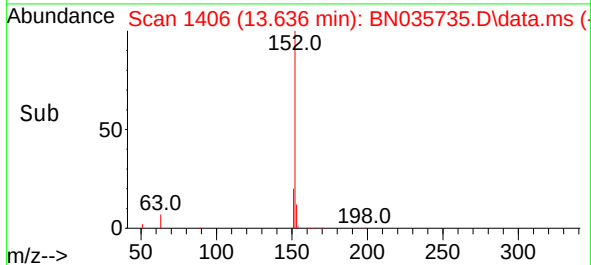
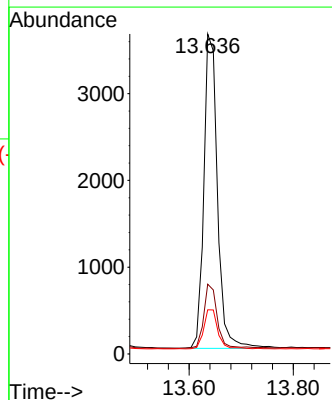
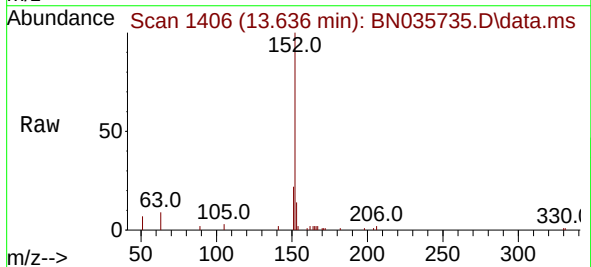
Instrument :  
BNA\_N  
ClientSampleId :  
BPOW6-11-20241212MS

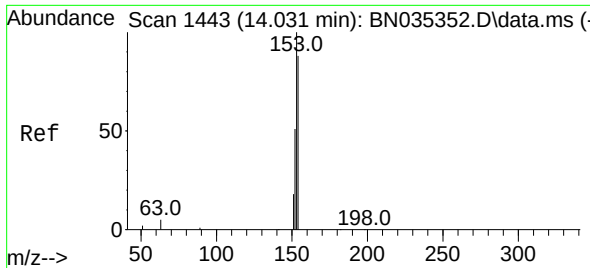
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 172   | Resp: | 5479 |
| Ion Ratio | Lower | Upper |      |
| 172       | 100   |       |      |
| 171       | 36.0  | 29.0  | 43.4 |
| 170       | 24.2  | 19.8  | 29.8 |



#16  
Acenaphthylene  
Concen: 0.303 ng  
RT: 13.636 min Scan# 1406  
Delta R.T. -0.011 min  
Lab File: BN035735.D  
Acq: 20 Dec 2024 11:05

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 152   | Resp: | 6604 |
| Ion Ratio | Lower | Upper |      |
| 152       | 100   |       |      |
| 151       | 20.5  | 16.2  | 24.2 |
| 153       | 13.1  | 10.4  | 15.6 |

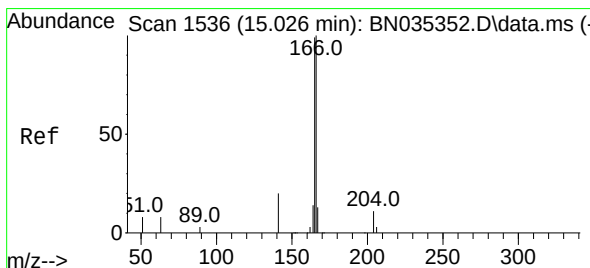
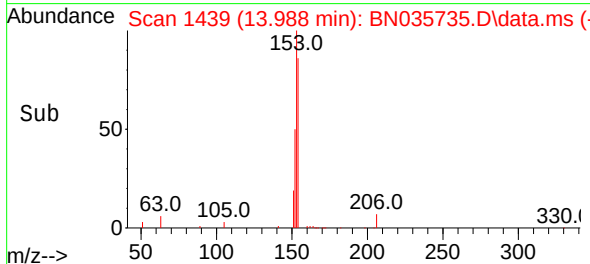
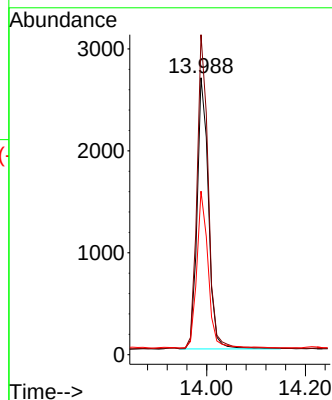
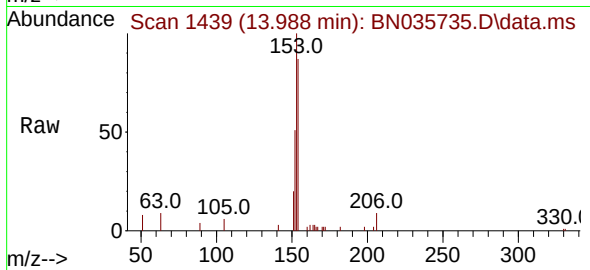




#17  
Acenaphthene  
Concen: 0.292 ng  
RT: 13.988 min Scan# 1443  
Delta R.T. -0.011 min  
Lab File: BN035735.D  
Acq: 20 Dec 2024 11:05

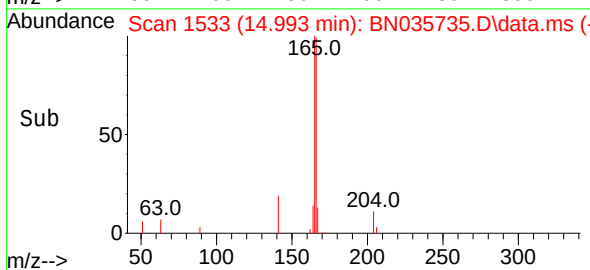
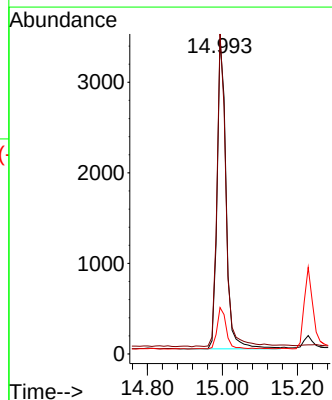
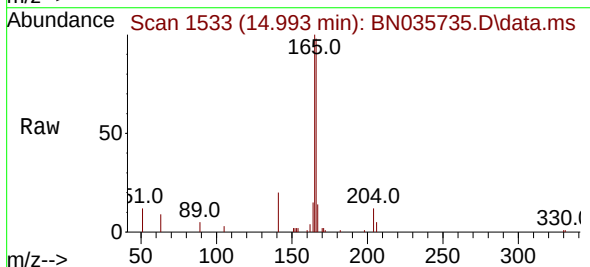
Instrument :  
BNA\_N  
ClientSampleId :  
BPOW6-11-20241212MS

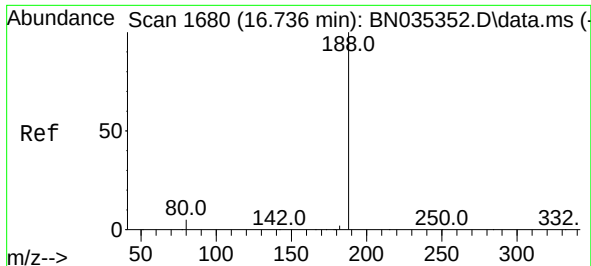
Tgt Ion:154 Resp: 4230  
Ion Ratio Lower Upper  
154 100  
153 116.1 92.6 139.0  
152 57.3 49.0 73.6



#18  
Fluorene  
Concen: 0.276 ng  
RT: 14.993 min Scan# 1533  
Delta R.T. -0.011 min  
Lab File: BN035735.D  
Acq: 20 Dec 2024 11:05

Tgt Ion:166 Resp: 5719  
Ion Ratio Lower Upper  
166 100  
165 99.7 79.7 119.5  
167 13.9 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.698 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN035735.D

Acq: 20 Dec 2024 11:05

Instrument :

BNA\_N

ClientSampleId :

BPOW6-11-20241212MS

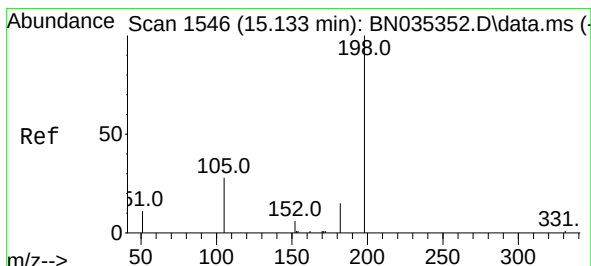
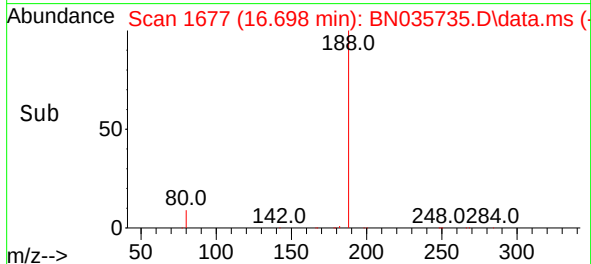
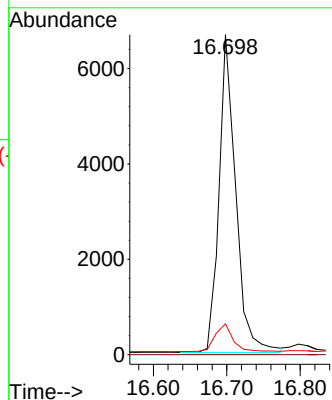
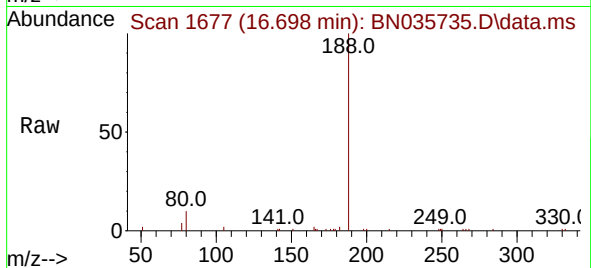
Tgt Ion:188 Resp: 10502

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.7 4.6 6.8#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.100 ng

RT: 15.122 min Scan# 1545

Delta R.T. -0.000 min

Lab File: BN035735.D

Acq: 20 Dec 2024 11:05

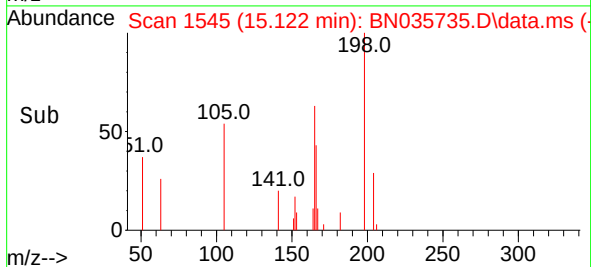
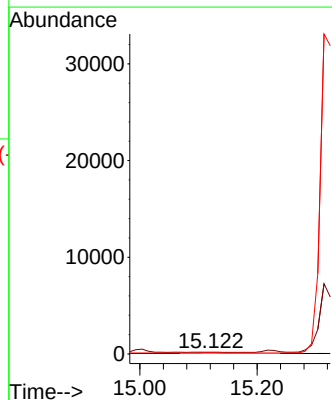
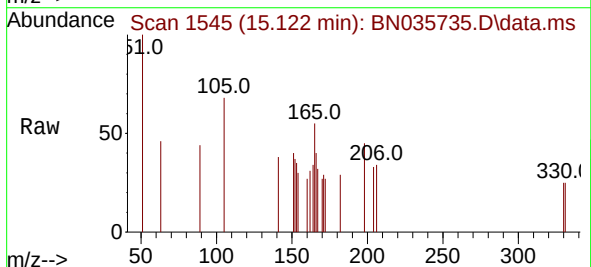
Tgt Ion:198 Resp: 103

Ion Ratio Lower Upper

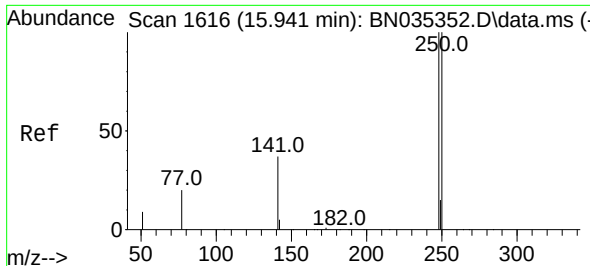
198 100

51 220.2 46.5 69.7#

105 150.0 45.3 67.9#



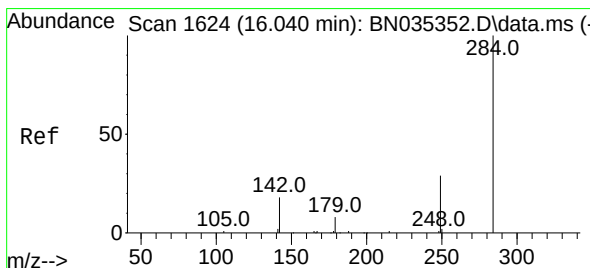
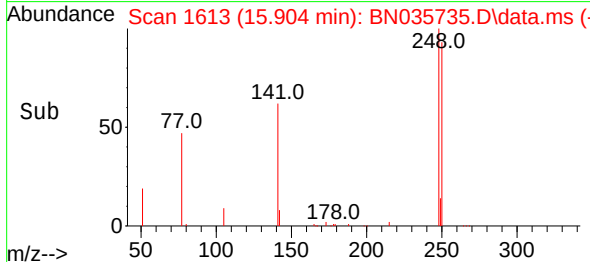
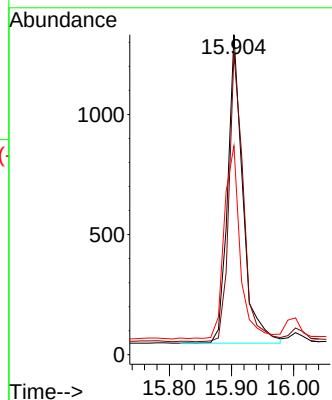
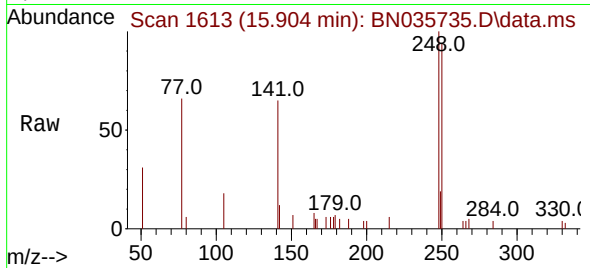




#21  
4-Bromophenyl-phenylether  
Concen: 0.353 ng  
RT: 15.904 min Scan# 1613  
Delta R.T. -0.013 min  
Lab File: BN035735.D  
Acq: 20 Dec 2024 11:05

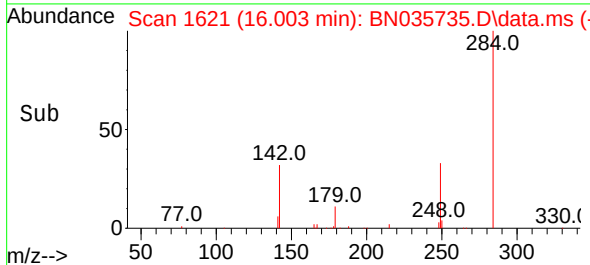
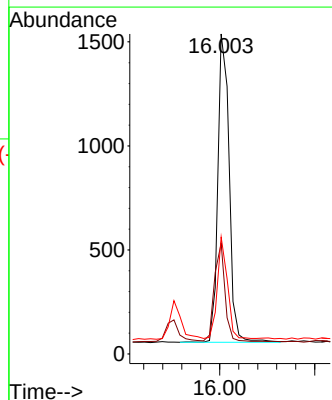
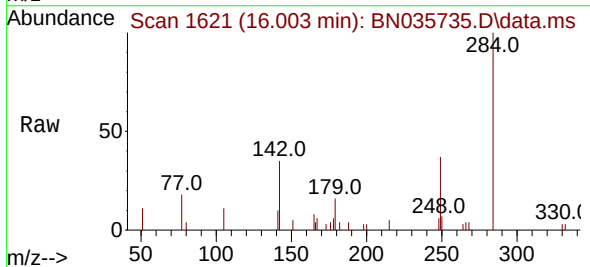
Instrument :  
BNA\_N  
ClientSampleId :  
BPOW6-11-20241212MS

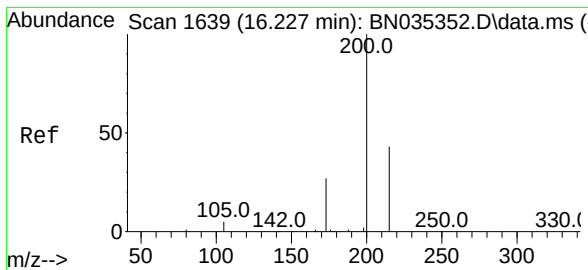
Tgt Ion:248 Resp: 2167  
Ion Ratio Lower Upper  
248 100  
250 94.2 80.6 120.8  
141 65.2 31.5 47.3#



#22  
Hexachlorobenzene  
Concen: 0.339 ng  
RT: 16.003 min Scan# 1621  
Delta R.T. -0.013 min  
Lab File: BN035735.D  
Acq: 20 Dec 2024 11:05

Tgt Ion:284 Resp: 2445  
Ion Ratio Lower Upper  
284 100  
142 30.1 26.7 40.1  
249 29.0 24.6 36.8





#23

Atrazine

Concen: 0.288 ng

RT: 16.202 min Scan# 1637

Delta R.T. -0.000 min

Lab File: BN035735.D

Acq: 20 Dec 2024 11:05

Instrument :

BNA\_N

ClientSampleId :

BPOW6-11-20241212MS

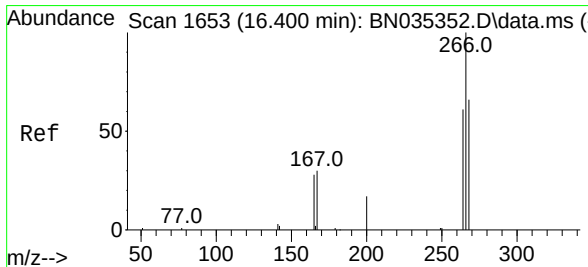
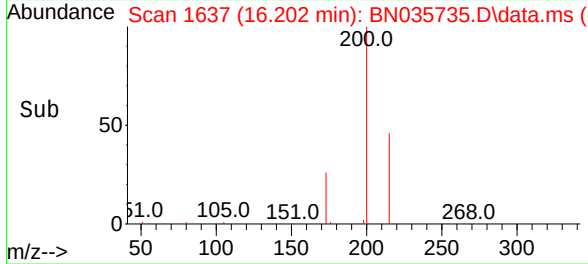
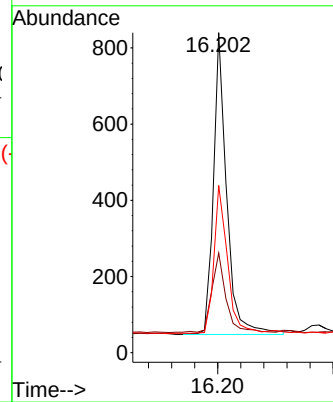
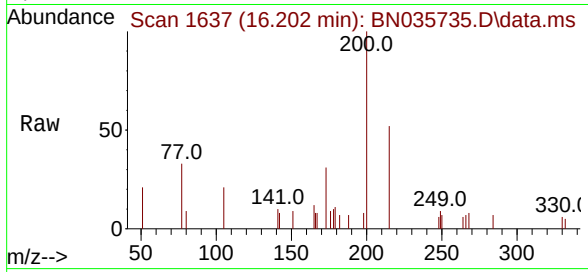
Tgt Ion:200 Resp: 1259

Ion Ratio Lower Upper

200 100

173 31.2 24.1 36.1

215 52.3 36.9 55.3



#24

Pentachlorophenol

Concen: 0.087 ng

RT: 16.375 min Scan# 1651

Delta R.T. -0.000 min

Lab File: BN035735.D

Acq: 20 Dec 2024 11:05

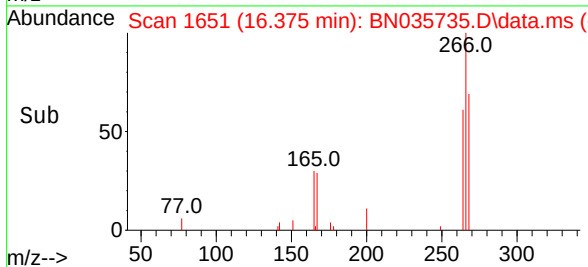
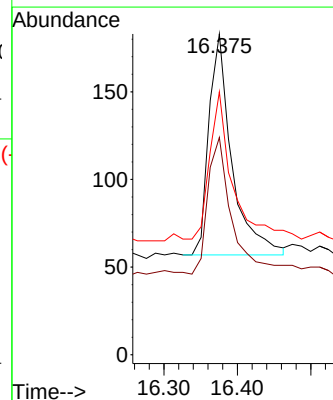
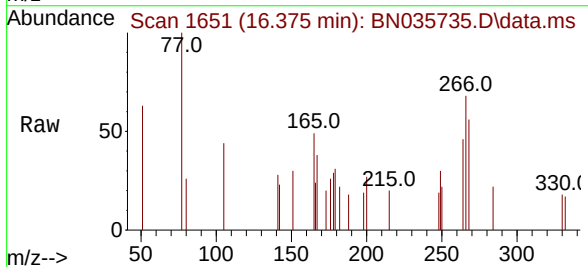
Tgt Ion:266 Resp: 273

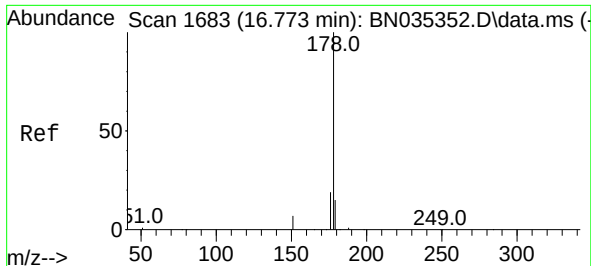
Ion Ratio Lower Upper

266 100

264 65.9 42.3 63.5#

268 70.7 43.3 64.9#





#25

Phenanthrene

Concen: 0.356 ng

RT: 16.735 min Scan# 1680

Delta R.T. -0.013 min

Lab File: BN035735.D

Acq: 20 Dec 2024 11:05

Instrument :

BNA\_N

ClientSampleId :

BPOW6-11-20241212MS

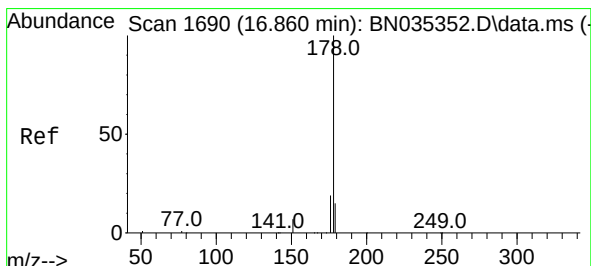
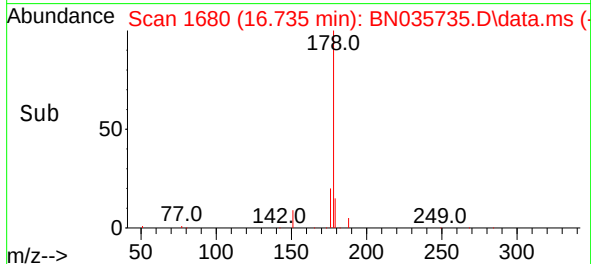
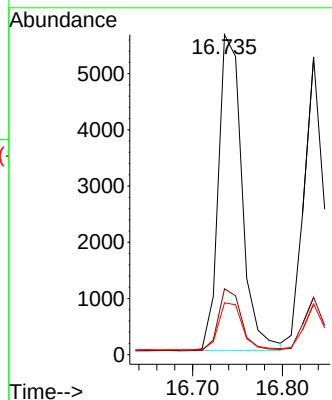
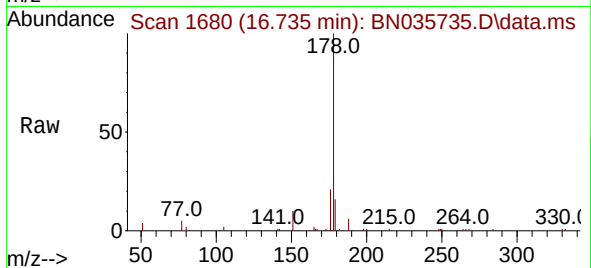
Tgt Ion:178 Resp: 10260

Ion Ratio Lower Upper

178 100

176 19.3 15.4 23.2

179 15.2 12.3 18.5



#26

Anthracene

Concen: 0.342 ng

RT: 16.835 min Scan# 1688

Delta R.T. -0.000 min

Lab File: BN035735.D

Acq: 20 Dec 2024 11:05

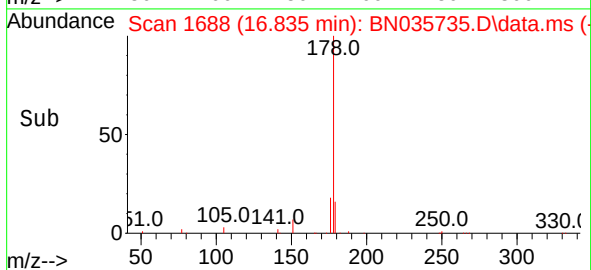
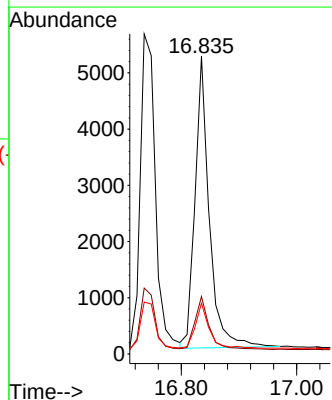
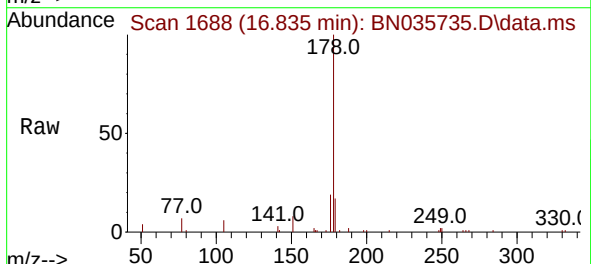
Tgt Ion:178 Resp: 8925

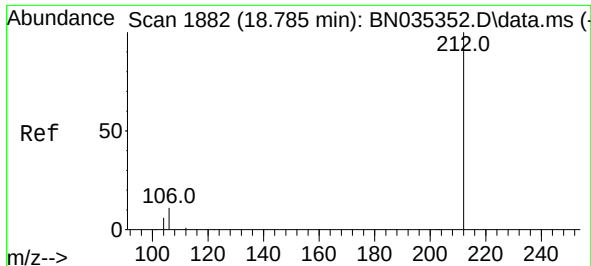
Ion Ratio Lower Upper

178 100

176 18.5 15.0 22.6

179 15.3 12.6 18.8





#27

Fluoranthene-d10

Concen: 0.380 ng

RT: 18.757 min Scan# 1876

Delta R.T. -0.005 min

Lab File: BN035735.D

Acq: 20 Dec 2024 11:05

Instrument :

BNA\_N

ClientSampleId :

BPOW6-11-20241212MS

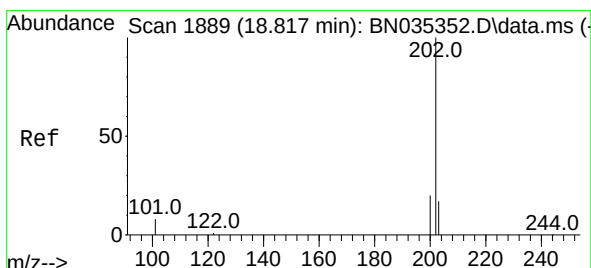
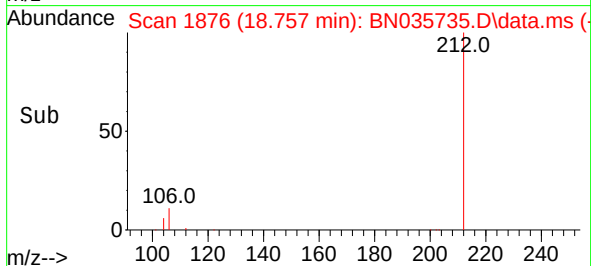
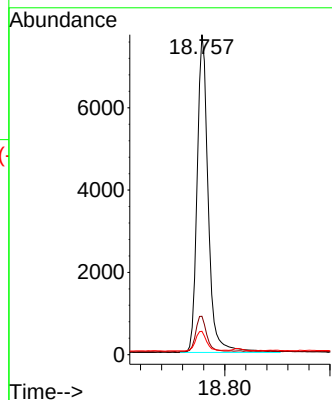
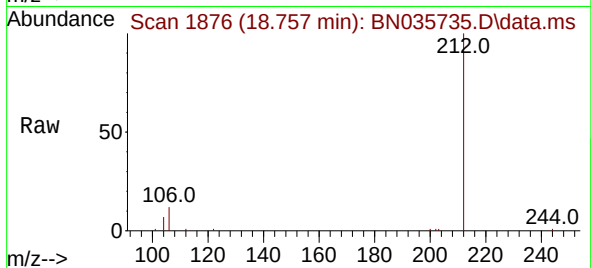
Tgt Ion:212 Resp: 11313

Ion Ratio Lower Upper

212 100

106 11.3 9.2 13.8

104 6.1 5.3 7.9



#28

Fluoranthene

Concen: 0.332 ng

RT: 18.789 min Scan# 1883

Delta R.T. -0.000 min

Lab File: BN035735.D

Acq: 20 Dec 2024 11:05

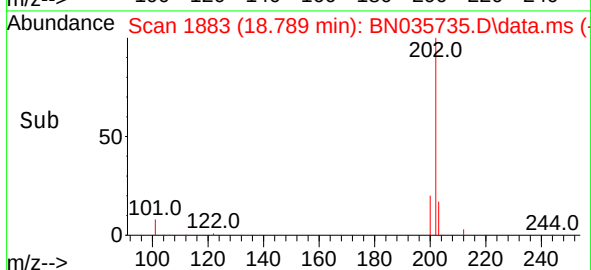
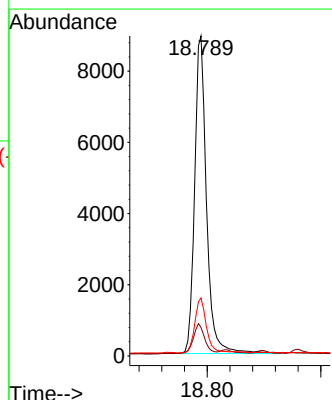
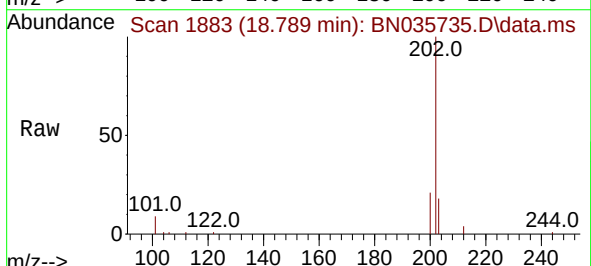
Tgt Ion:202 Resp: 12930

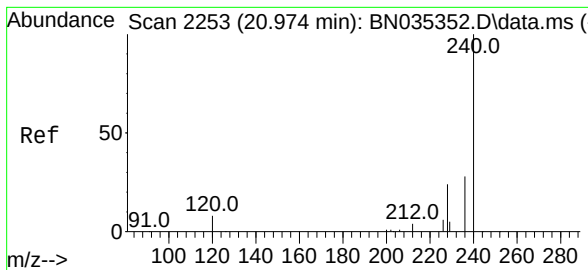
Ion Ratio Lower Upper

202 100

101 8.8 7.4 11.0

203 16.8 13.7 20.5

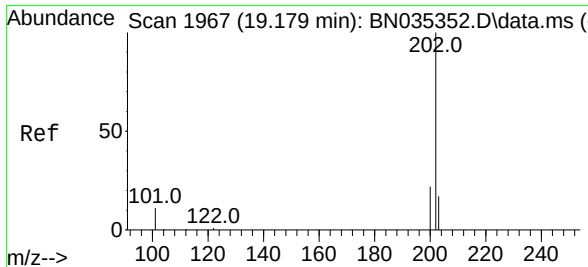
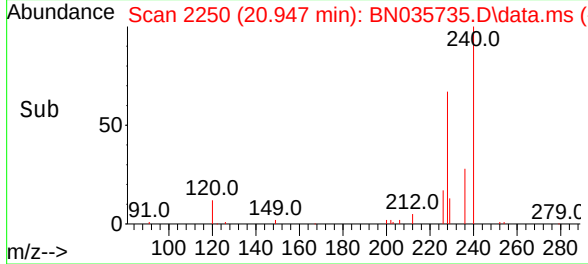
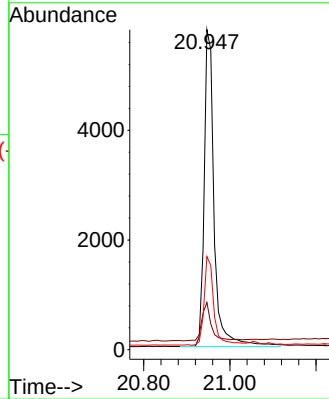
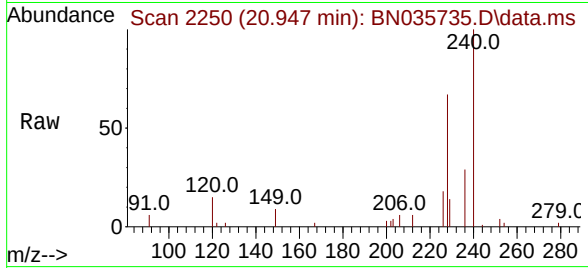




#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 20.947 min Scan# 21  
Delta R.T. -0.009 min  
Lab File: BN035735.D  
Acq: 20 Dec 2024 11:05

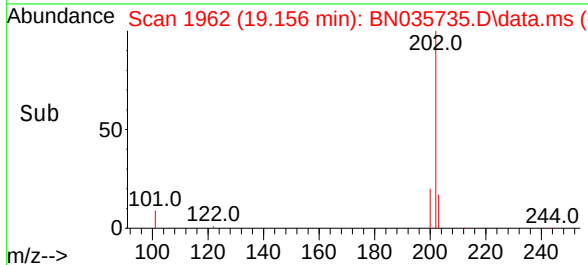
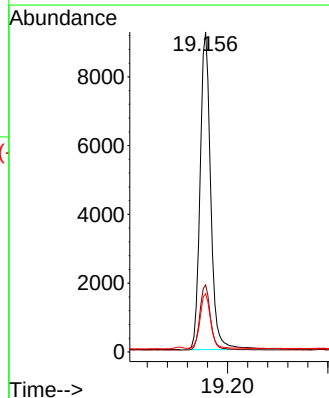
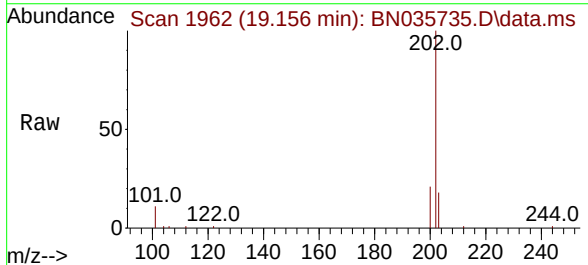
Instrument :  
BNA\_N  
ClientSampleId :  
BPOW6-11-20241212MS

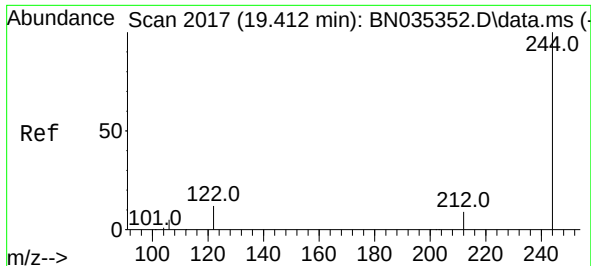
Tgt Ion:240 Resp: 9278  
Ion Ratio Lower Upper  
240 100  
120 14.8 7.9 11.9#  
236 29.1 22.9 34.3



#30  
Pyrene  
Concen: 0.394 ng  
RT: 19.156 min Scan# 1962  
Delta R.T. -0.005 min  
Lab File: BN035735.D  
Acq: 20 Dec 2024 11:05

Tgt Ion:202 Resp: 13495  
Ion Ratio Lower Upper  
202 100  
200 20.6 17.0 25.4  
203 17.6 14.3 21.5

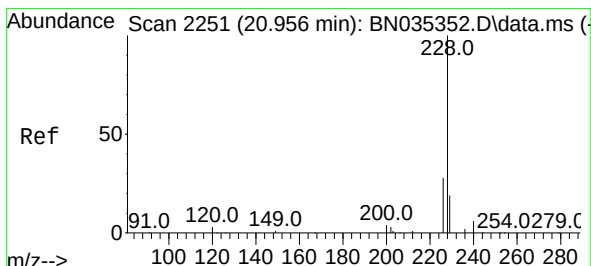
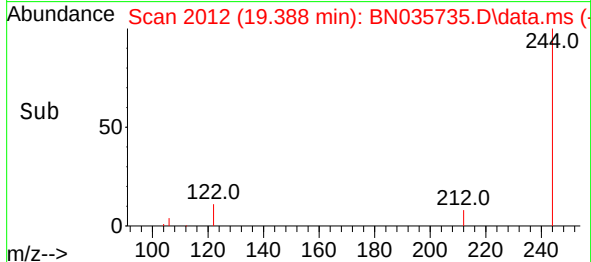
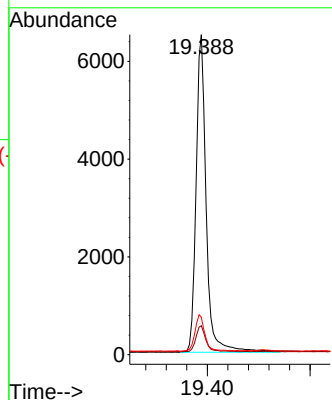
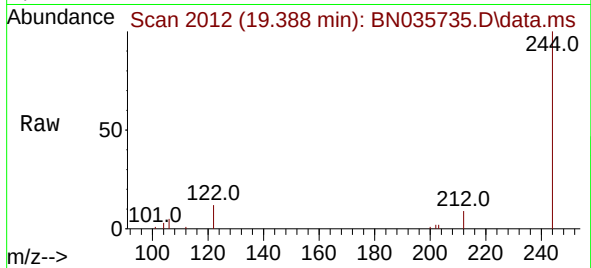




#31  
Terphenyl-d14  
Concen: 0.488 ng  
RT: 19.388 min Scan# 2017  
Delta R.T. -0.000 min  
Lab File: BN035735.D  
Acq: 20 Dec 2024 11:05

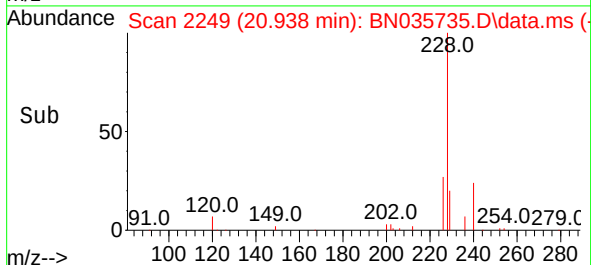
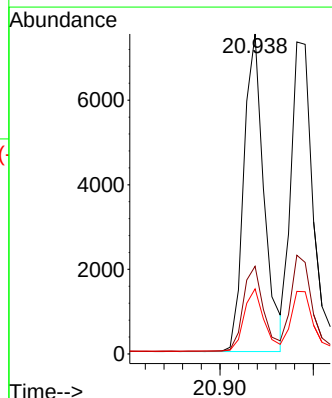
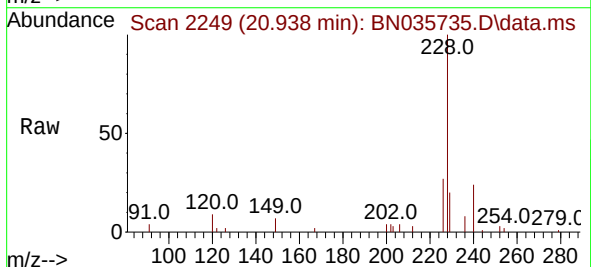
Instrument :  
BNA\_N  
ClientSampleId :  
BPOW6-11-20241212MS

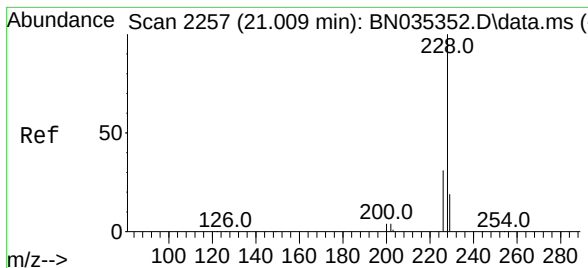
Tgt Ion:244 Resp: 8932  
Ion Ratio Lower Upper  
244 100  
212 9.0 8.1 12.1  
122 11.7 10.3 15.5



#32  
Benzo(a)anthracene  
Concen: 0.348 ng  
RT: 20.938 min Scan# 2249  
Delta R.T. -0.000 min  
Lab File: BN035735.D  
Acq: 20 Dec 2024 11:05

Tgt Ion:228 Resp: 11302  
Ion Ratio Lower Upper  
228 100  
226 27.4 22.5 33.7  
229 20.4 15.8 23.8





#33

Chrysene

Concen: 0.378 ng

RT: 20.982 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035735.D

Acq: 20 Dec 2024 11:05

Instrument :

BNA\_N

ClientSampleId :

BPOW6-11-20241212MS

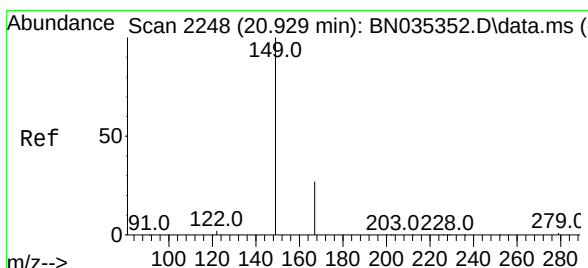
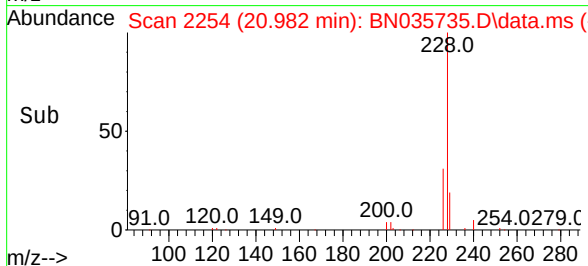
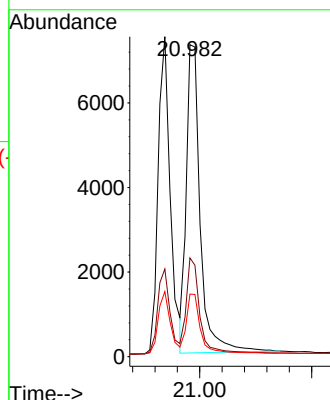
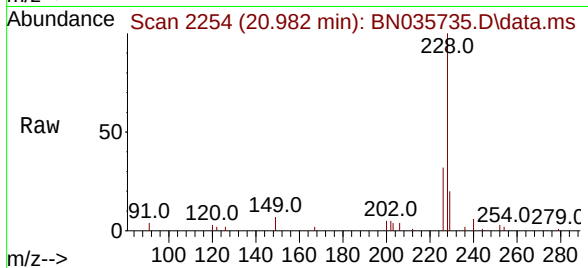
Tgt Ion:228 Resp: 12637

Ion Ratio Lower Upper

228 100

226 31.6 24.6 37.0

229 20.1 15.9 23.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.477 ng

RT: 20.902 min Scan# 2245

Delta R.T. -0.009 min

Lab File: BN035735.D

Acq: 20 Dec 2024 11:05

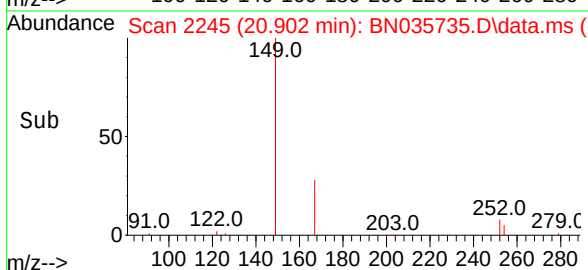
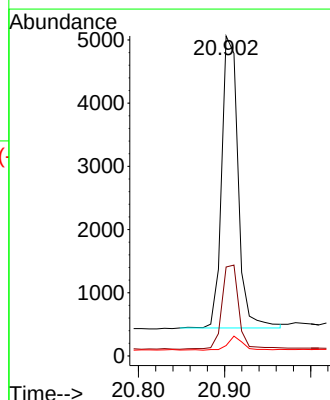
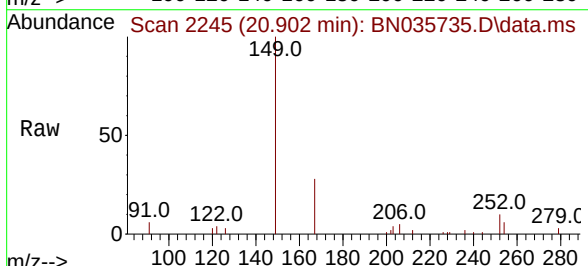
Tgt Ion:149 Resp: 6113

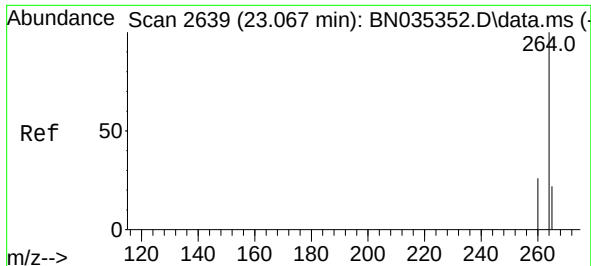
Ion Ratio Lower Upper

149 100

167 29.6 22.2 33.4

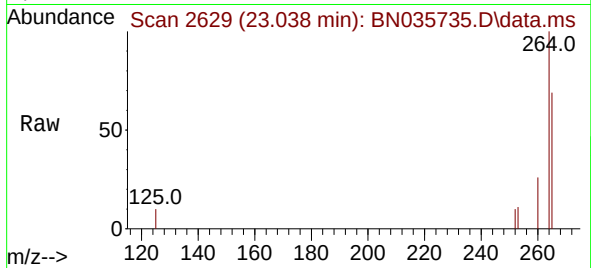
279 4.4 2.7 4.1#



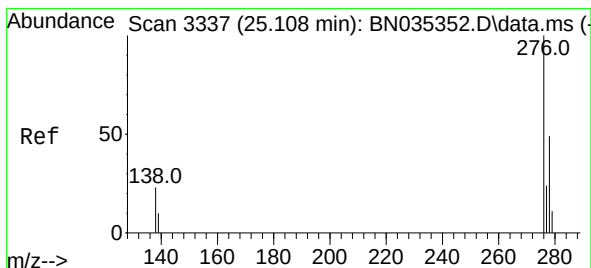
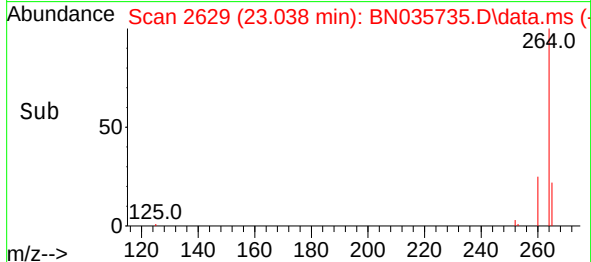
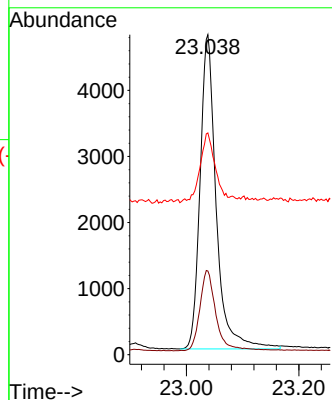


#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.038 min Scan# 20  
Delta R.T. -0.003 min  
Lab File: BN035735.D  
Acq: 20 Dec 2024 11:05

Instrument :  
BNA\_N  
ClientSampleId :  
BPOW6-11-20241212MS

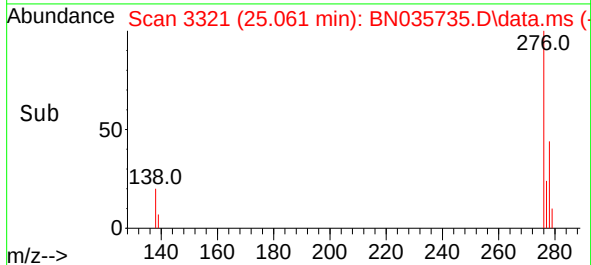
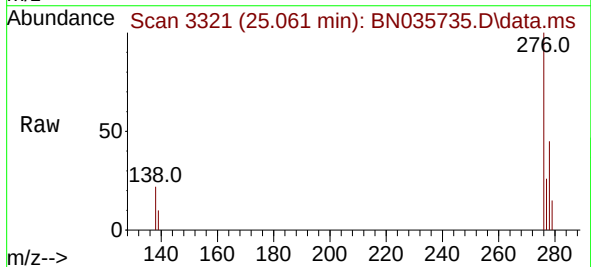
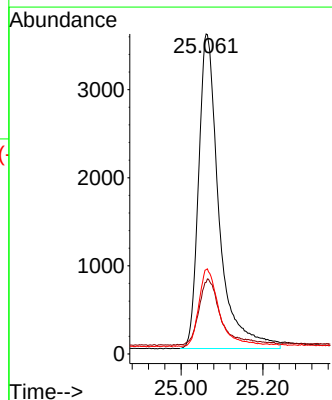


Tgt Ion:264 Resp: 9467  
Ion Ratio Lower Upper  
264 100  
260 26.2 21.4 32.2  
265 69.3 40.2 60.4#

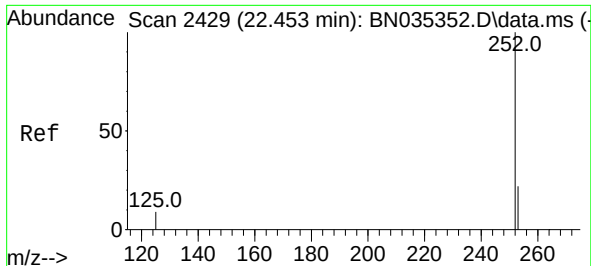


#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.335 ng  
RT: 25.061 min Scan# 3321  
Delta R.T. -0.006 min  
Lab File: BN035735.D  
Acq: 20 Dec 2024 11:05

Tgt Ion:276 Resp: 12412  
Ion Ratio Lower Upper  
276 100  
138 21.0 19.4 29.0  
277 24.4 19.8 29.6







#37

Benzo(b)fluoranthene

Concen: 0.536 ng

RT: 22.427 min Scan# 2420

Delta R.T. -0.003 min

Lab File: BN035735.D

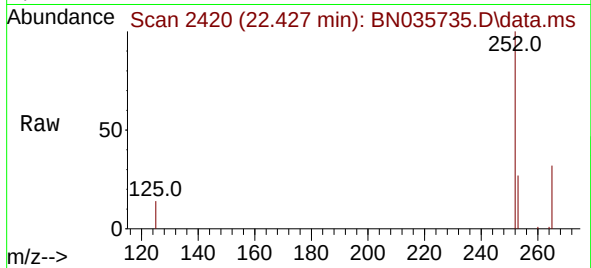
Acq: 20 Dec 2024 11:05

Instrument :

BNA\_N

ClientSampleId :

BPOW6-11-20241212MS



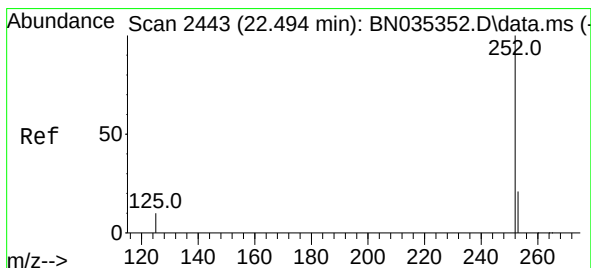
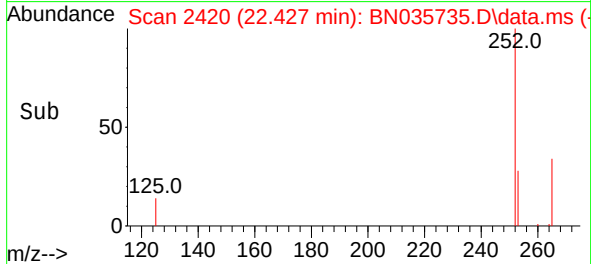
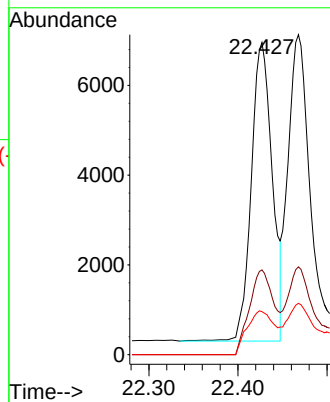
Tgt Ion:252 Resp: 18573

Ion Ratio Lower Upper

252 100

253 27.2 19.6 29.4

125 13.8 9.6 14.4



#38

Benzo(k)fluoranthene

Concen: 0.545 ng

RT: 22.427 min Scan# 2420

Delta R.T. -0.044 min

Lab File: BN035735.D

Acq: 20 Dec 2024 11:05

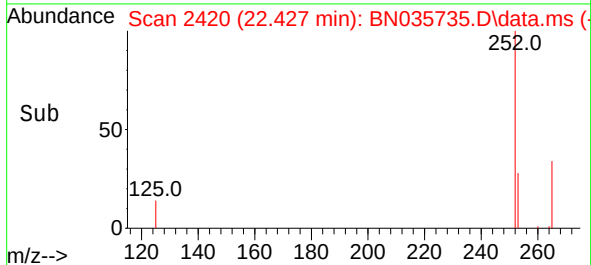
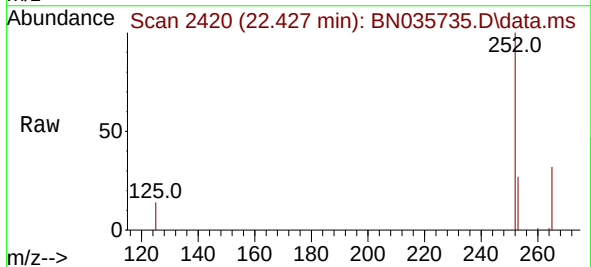
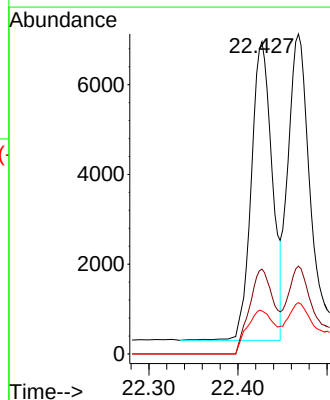
Tgt Ion:252 Resp: 18573

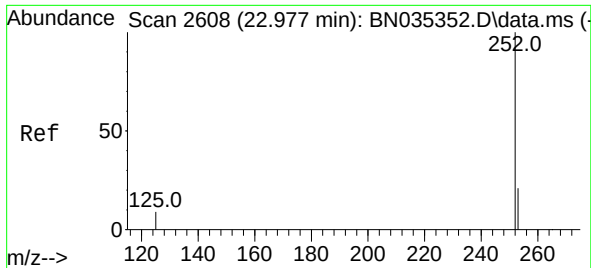
Ion Ratio Lower Upper

252 100

253 27.2 19.5 29.3

125 13.8 10.2 15.4





#39

Benzo(a)pyrene

Concen: 0.326 ng

RT: 22.950 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035735.D

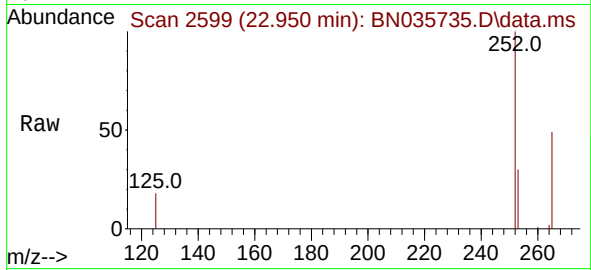
Acq: 20 Dec 2024 11:05

Instrument :

BNA\_N

ClientSampleId :

BPOW6-11-20241212MS



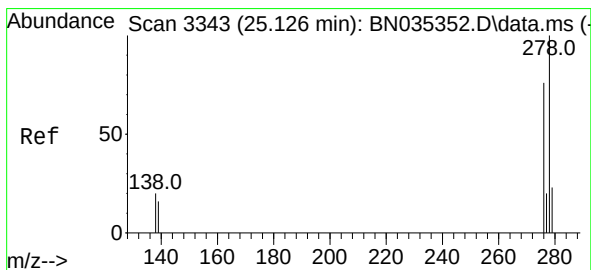
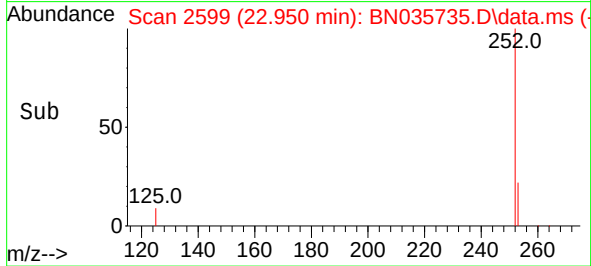
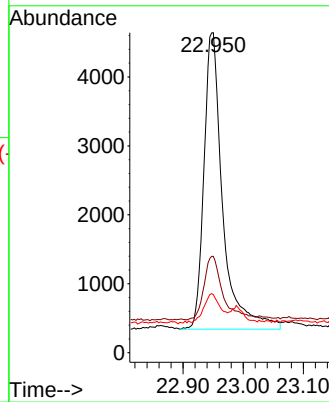
Tgt Ion:252 Resp: 9310

Ion Ratio Lower Upper

252 100

253 30.1 20.2 30.4

125 18.2 10.9 16.3#



#40

Dibenzo(a,h)anthracene

Concen: 0.331 ng

RT: 25.082 min Scan# 3328

Delta R.T. -0.000 min

Lab File: BN035735.D

Acq: 20 Dec 2024 11:05

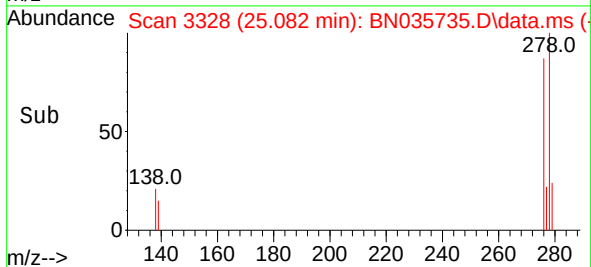
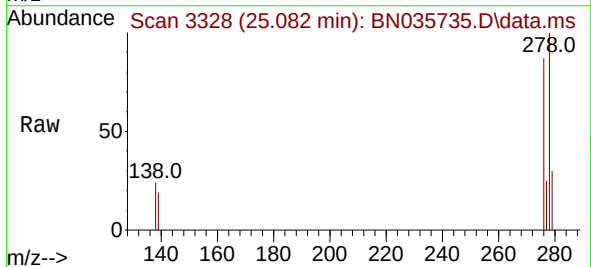
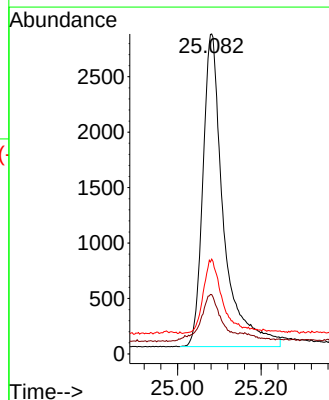
Tgt Ion:278 Resp: 9663

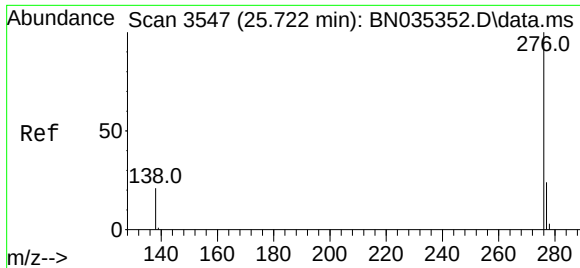
Ion Ratio Lower Upper

278 100

139 18.5 14.2 21.4

279 29.6 20.5 30.7





#41

Benzo(g,h,i)perylene

Concen: 0.305 ng

RT: 25.675 min Scan# 3

Delta R.T. -0.003 min

Lab File: BN035735.D

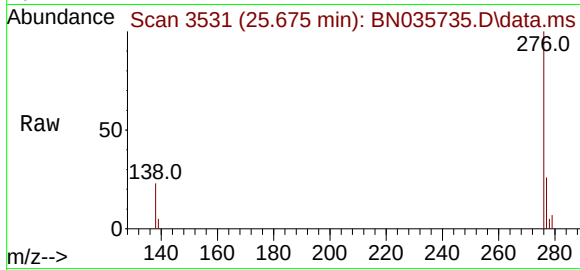
Acq: 20 Dec 2024 11:05

Instrument :

BNA\_N

ClientSampleId :

BPOW6-11-20241212MS



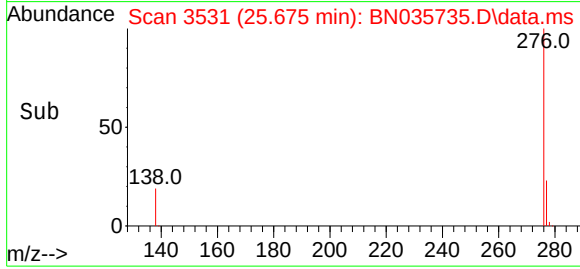
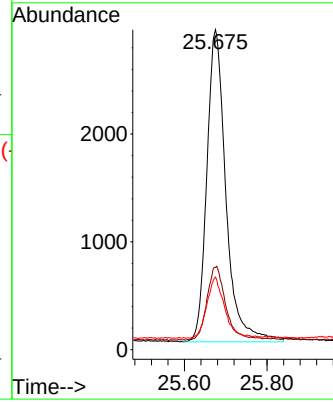
Tgt Ion:276 Resp: 9301

Ion Ratio Lower Upper

276 100

277 25.7 19.9 29.9

138 22.7 17.8 26.8



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN121924\  
 Data File : BN035736.D  
 Acq On : 20 Dec 2024 11:41  
 Operator : RC/JU  
 Sample : P5280-05MSD  
 Misc :  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 BPOW6-11-20241212MSD

Quant Time: Dec 20 12:27:13 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Dec 19 23:06:19 2024  
 Response via : Initial Calibration

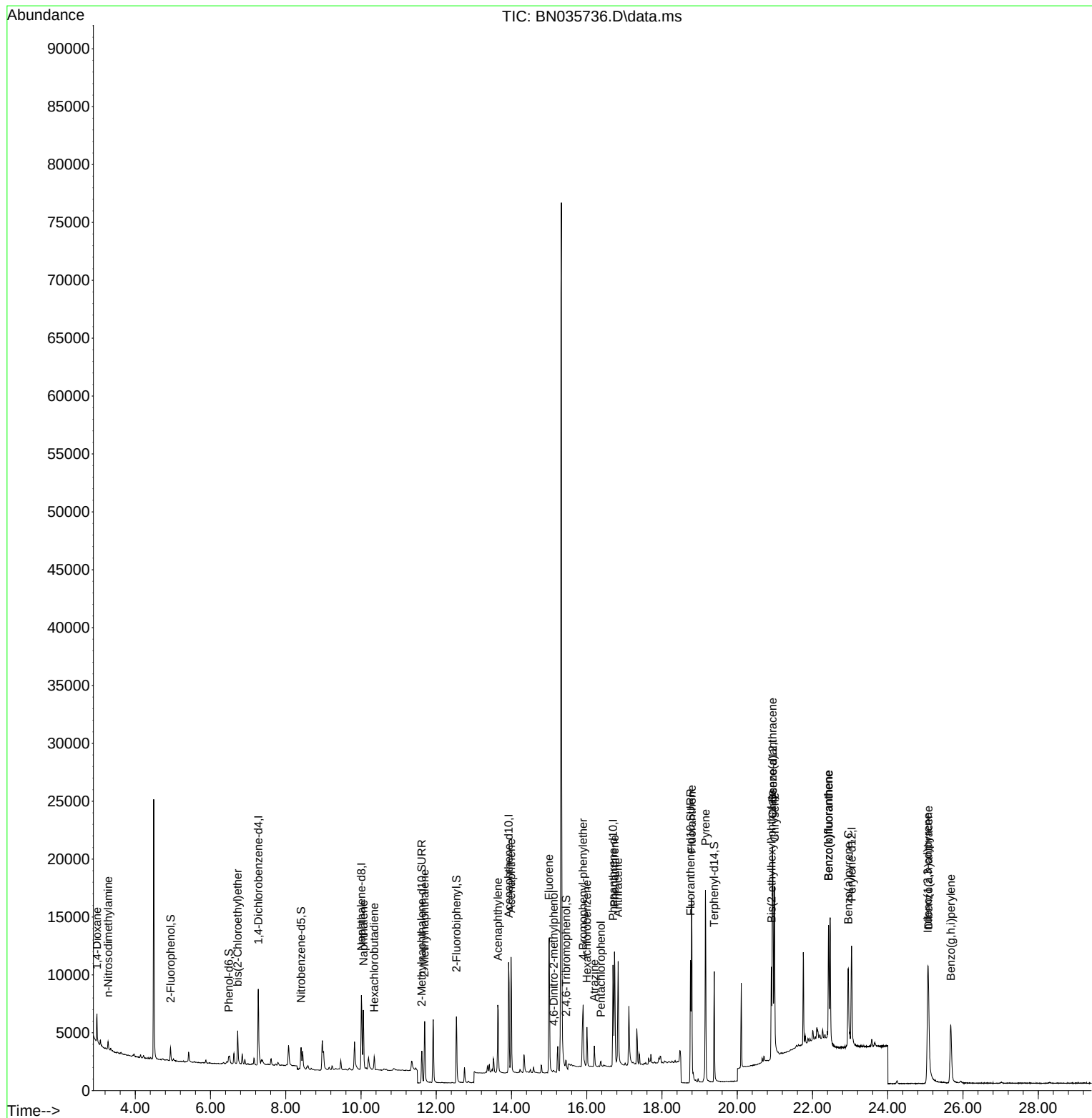
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.272  | 152  | 3357     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.009 | 136  | 9243     | 0.400 | ng    | -0.01    |
| 13) Acenaphthene-d10          | 13.924 | 164  | 5773     | 0.400 | ng    | -0.01    |
| 19) Phenanthrene-d10          | 16.698 | 188  | 12117    | 0.400 | ng    | # 0.00   |
| 29) Chrysene-d12              | 20.947 | 240  | 11029    | 0.400 | ng    | # 0.00   |
| 35) Perylene-d12              | 23.038 | 264  | 11370    | 0.400 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 4.939  | 112  | 942      | 0.112 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.484  | 99   | 701      | 0.069 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.408  | 82   | 2329     | 0.413 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.615 | 152  | 4592     | 0.317 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.453 | 330  | 754      | 0.184 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.538 | 172  | 6026     | 0.276 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 18.757 | 212  | 13288    | 0.387 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.388 | 244  | 10572    | 0.486 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| Target Compounds              |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 2.982  | 88   | 1749     | 0.545 | ng    | # 90     |
| 3) n-Nitrosodimethylamine     | 3.278  | 42   | 394      | 0.147 | ng    | # 89     |
| 6) bis(2-Chloroethyl)ether    | 6.723  | 93   | 2407     | 0.284 | ng    | 99       |
| 9) Naphthalene                | 10.063 | 128  | 6583     | 0.270 | ng    | 99       |
| 10) Hexachlorobutadiene       | 10.351 | 225  | 924      | 0.164 | ng    | # 99     |
| 12) 2-Methylnaphthalene       | 11.692 | 142  | 4392     | 0.252 | ng    | 98       |
| 16) Acenaphthylene            | 13.636 | 152  | 7346     | 0.303 | ng    | 99       |
| 17) Acenaphthene              | 13.989 | 154  | 4688     | 0.291 | ng    | 98       |
| 18) Fluorene                  | 14.993 | 166  | 6437     | 0.279 | ng    | 99       |
| 20) 4,6-Dinitro-2-methylph... | 15.122 | 198  | 141      | 0.118 | ng    | # 1      |
| 21) 4-Bromophenyl-phenylether | 15.904 | 248  | 2466     | 0.348 | ng    | # 82     |
| 22) Hexachlorobenzene         | 16.003 | 284  | 2768     | 0.333 | ng    | 95       |
| 23) Atrazine                  | 16.202 | 200  | 1444     | 0.286 | ng    | 96       |
| 24) Pentachlorophenol         | 16.375 | 266  | 361      | 0.100 | ng    | 92       |
| 25) Phenanthrene              | 16.735 | 178  | 11782    | 0.354 | ng    | 99       |
| 26) Anthracene                | 16.835 | 178  | 10189    | 0.338 | ng    | 99       |
| 28) Fluoranthene              | 18.789 | 202  | 15192    | 0.339 | ng    | 99       |
| 30) Pyrene                    | 19.156 | 202  | 15901    | 0.391 | ng    | 99       |
| 32) Benzo(a)anthracene        | 20.938 | 228  | 13511    | 0.350 | ng    | 98       |
| 33) Chrysene                  | 20.991 | 228  | 15009    | 0.377 | ng    | 98       |
| 34) Bis(2-ethylhexyl)phtha... | 20.911 | 149  | 7279     | 0.478 | ng    | # 99     |
| 36) Indeno(1,2,3-cd)pyrene    | 25.061 | 276  | 14877    | 0.335 | ng    | 98       |
| 37) Benzo(b)fluoranthene      | 22.427 | 252  | 21467    | 0.516 | ng    | 97       |
| 38) Benzo(k)fluoranthene      | 22.427 | 252  | 21467    | 0.524 | ng    | 97       |
| 39) Benzo(a)pyrene            | 22.950 | 252  | 11175    | 0.326 | ng    | 93       |
| 40) Dibenzo(a,h)anthracene    | 25.079 | 278  | 11466    | 0.327 | ng    | 97       |
| 41) Benzo(g,h,i)perylene      | 25.675 | 276  | 11017    | 0.301 | ng    | 99       |
| -----                         |        |      |          |       |       |          |

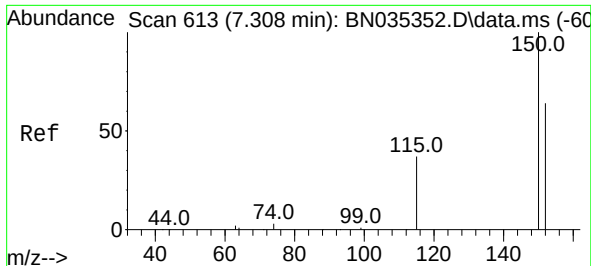
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN121924\  
Data File : BN035736.D  
Acq On : 20 Dec 2024 11:41  
Operator : RC/JU  
Sample : P5280-05MSD  
Misc :  
ALS Vial : 27 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
BPOW6-11-20241212MSD

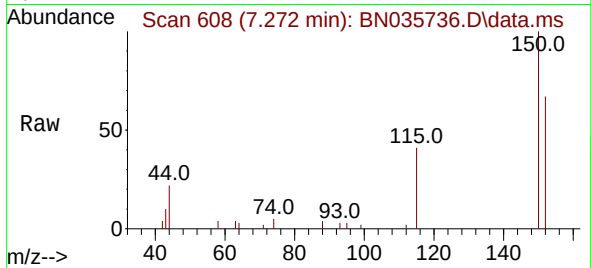
Quant Time: Dec 20 12:27:13 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Dec 19 23:06:19 2024  
Response via : Initial Calibration



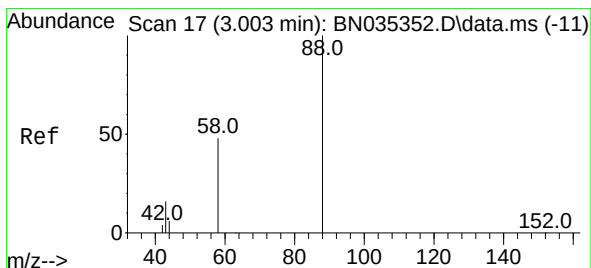
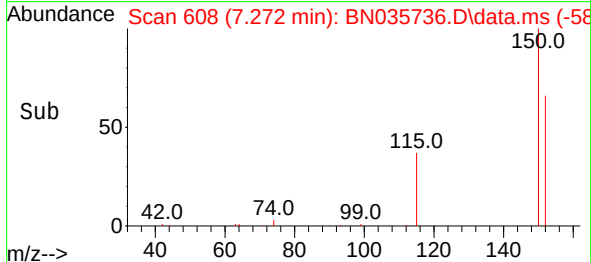
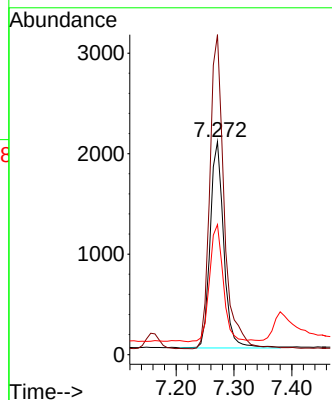


#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.272 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: BN035736.D  
Acq: 20 Dec 2024 11:41

Instrument :  
BNA\_N  
ClientSampleId :  
BPOW6-11-20241212MSD

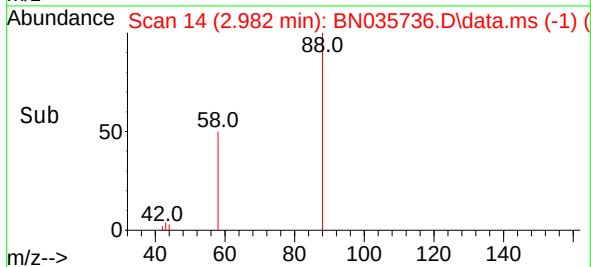
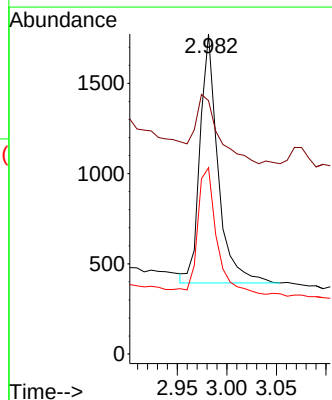
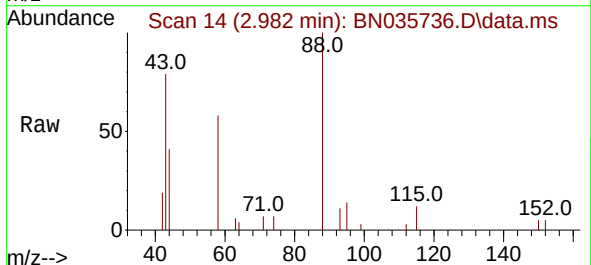


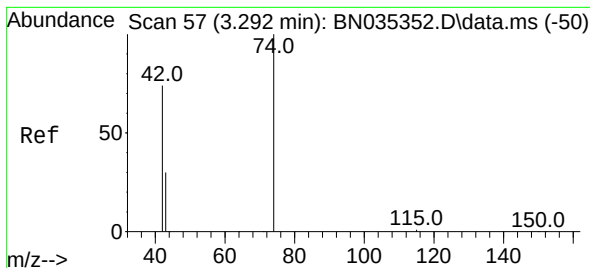
Tgt Ion:152 Resp: 3357  
Ion Ratio Lower Upper  
152 100  
150 150.3 124.0 186.0  
115 61.1 49.6 74.4



#2  
1,4-Dioxane  
Concen: 0.545 ng  
RT: 2.982 min Scan# 14  
Delta R.T. -0.000 min  
Lab File: BN035736.D  
Acq: 20 Dec 2024 11:41

Tgt Ion: 88 Resp: 1749  
Ion Ratio Lower Upper  
88 100  
43 34.9 17.2 25.8#  
58 53.4 44.5 66.7





#3

n-Nitrosodimethylamine

Concen: 0.147 ng

RT: 3.278 min Scan# 51

Delta R.T. -0.000 min

Lab File: BN035736.D

Acq: 20 Dec 2024 11:41

Instrument :

BNA\_N

ClientSampleId :

BPOW6-11-20241212MSD

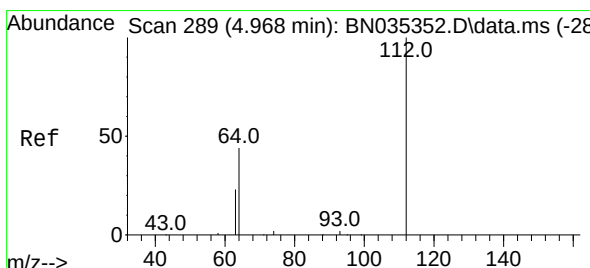
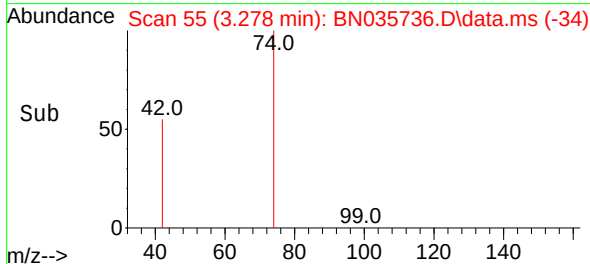
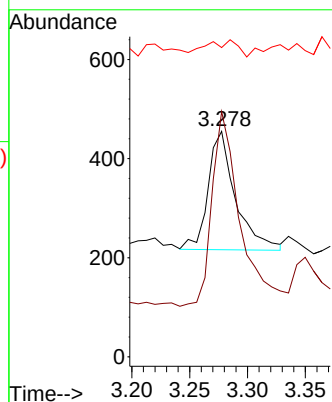
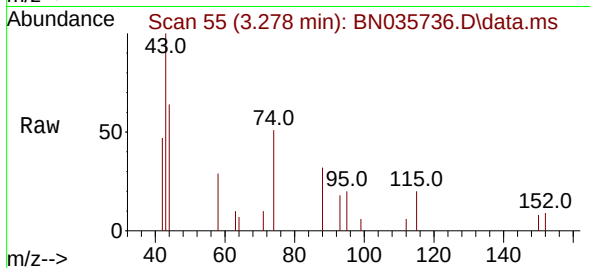
Tgt Ion: 42 Resp: 394

Ion Ratio Lower Upper

42 100

74 169.8 124.9 187.3

44 16.0 2.2 3.4#



#4

2-Fluorophenol

Concen: 0.112 ng

RT: 4.939 min Scan# 285

Delta R.T. -0.000 min

Lab File: BN035736.D

Acq: 20 Dec 2024 11:41

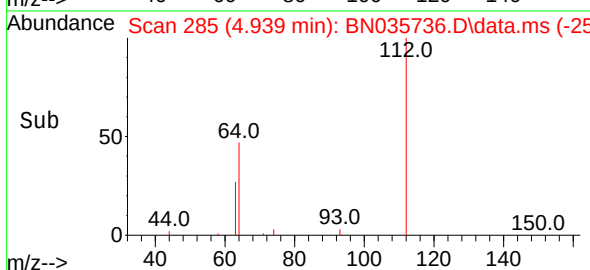
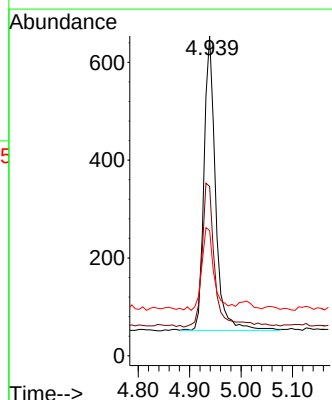
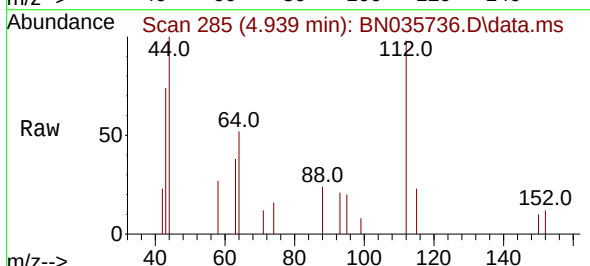
Tgt Ion: 112 Resp: 942

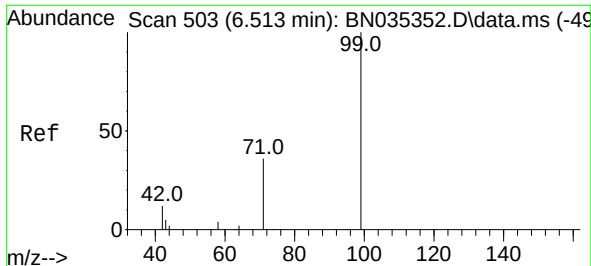
Ion Ratio Lower Upper

112 100

64 54.1 39.8 59.8

63 29.4 21.0 31.6

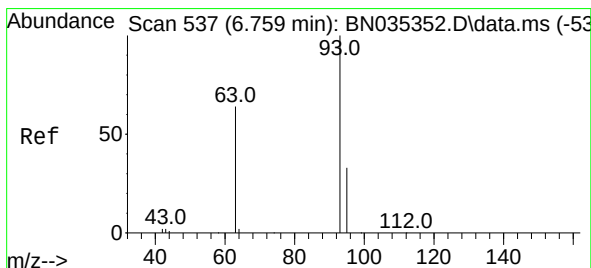
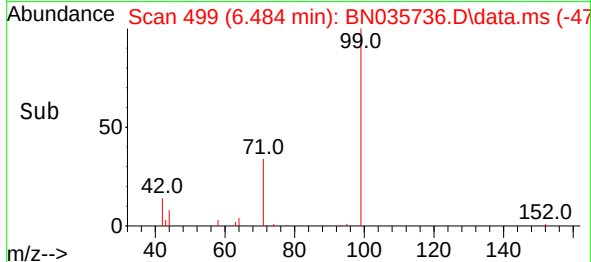
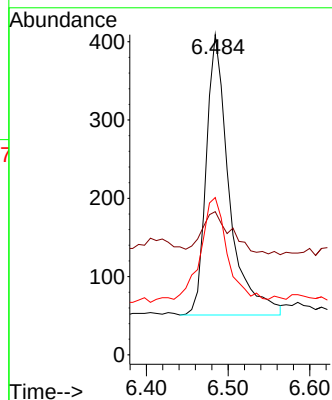
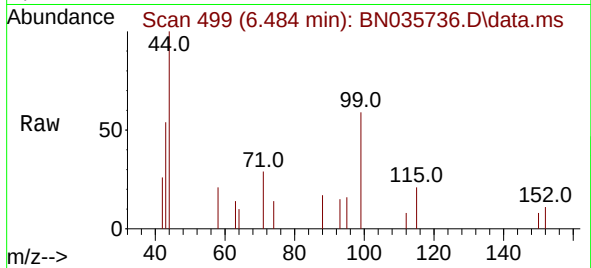




#5  
Phenol-d6  
Concen: 0.069 ng  
RT: 6.484 min Scan# 499  
Delta R.T. -0.007 min  
Lab File: BN035736.D  
Acq: 20 Dec 2024 11:41

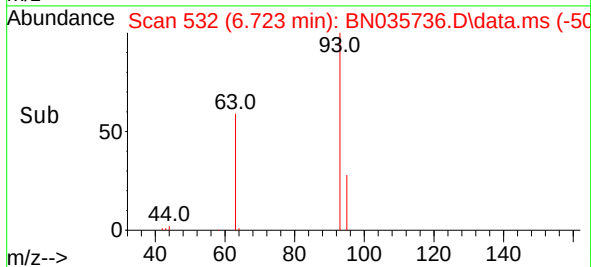
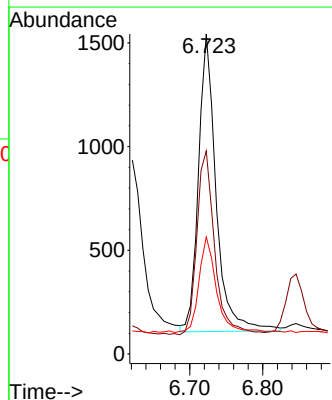
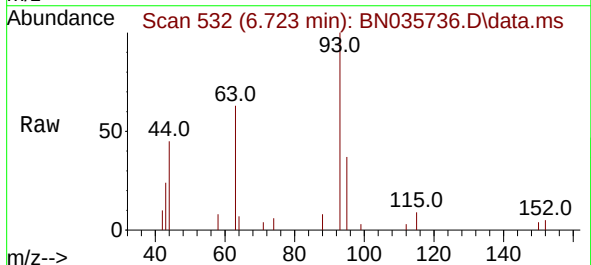
Instrument :  
BNA\_N  
ClientSampleId :  
BPOW6-11-20241212MSD

Tgt Ion: 99 Resp: 701  
Ion Ratio Lower Upper  
99 100  
42 20.0 11.4 17.2#  
71 45.9 29.3 43.9#

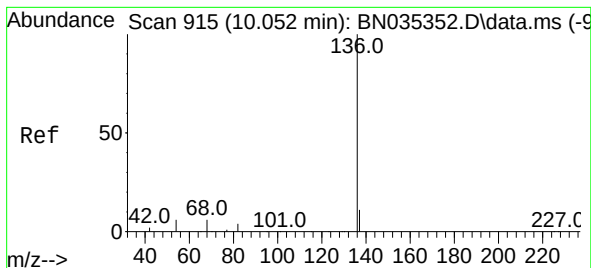


#6  
bis(2-Chloroethyl)ether  
Concen: 0.284 ng  
RT: 6.723 min Scan# 532  
Delta R.T. -0.007 min  
Lab File: BN035736.D  
Acq: 20 Dec 2024 11:41

Tgt Ion: 93 Resp: 2407  
Ion Ratio Lower Upper  
93 100  
63 61.9 50.4 75.6  
95 31.7 25.7 38.5







#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.009 min Scan# 915

Delta R.T. -0.011 min

Lab File: BN035736.D

Acq: 20 Dec 2024 11:41

Instrument :

BNA\_N

ClientSampleId :

BPOW6-11-20241212MSD

Tgt Ion:136 Resp: 9243

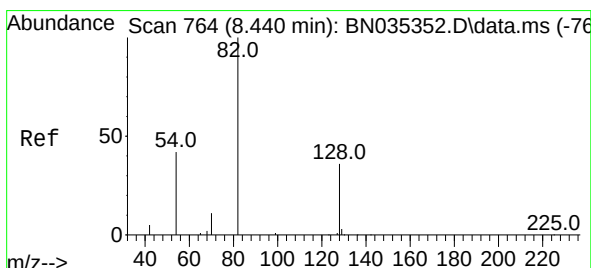
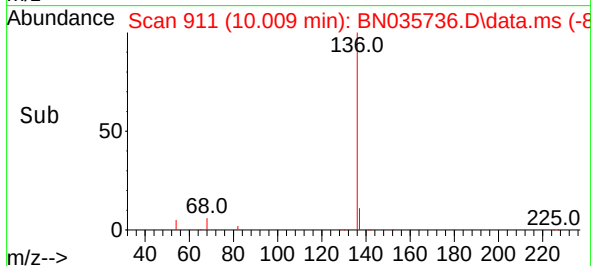
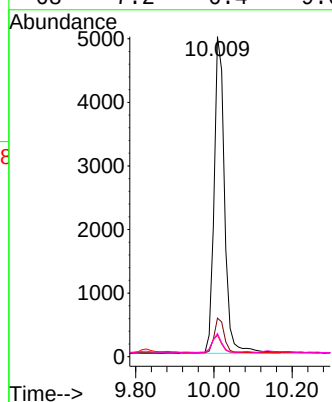
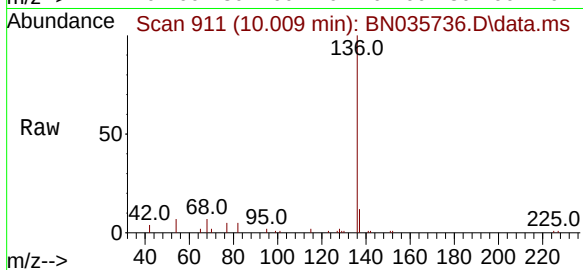
Ion Ratio Lower Upper

136 100

137 12.1 10.2 15.2

54 6.7 6.1 9.1

68 7.2 6.4 9.6



#8

Nitrobenzene-d5

Concen: 0.413 ng

RT: 8.408 min Scan# 761

Delta R.T. -0.000 min

Lab File: BN035736.D

Acq: 20 Dec 2024 11:41

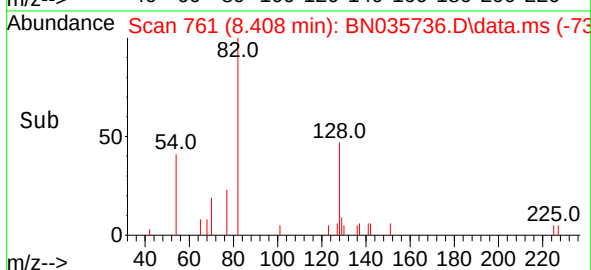
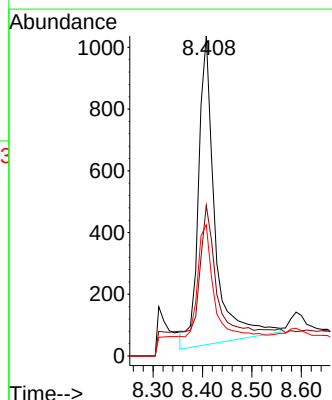
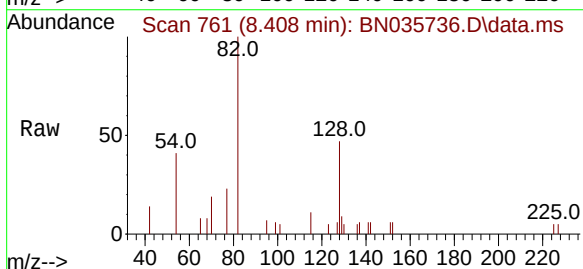
Tgt Ion: 82 Resp: 2329

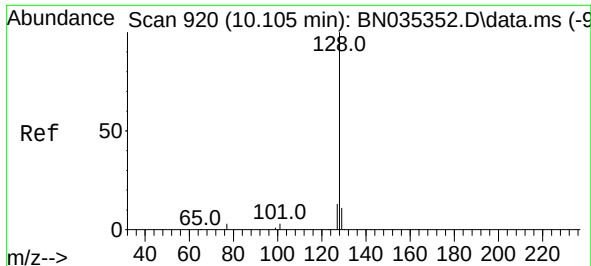
Ion Ratio Lower Upper

82 100

128 47.1 33.4 50.0

54 41.0 36.7 55.1

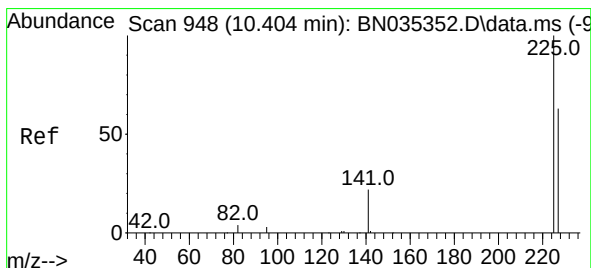
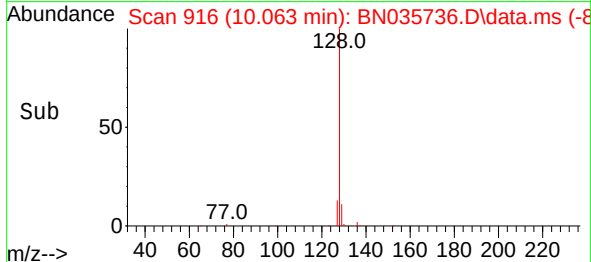
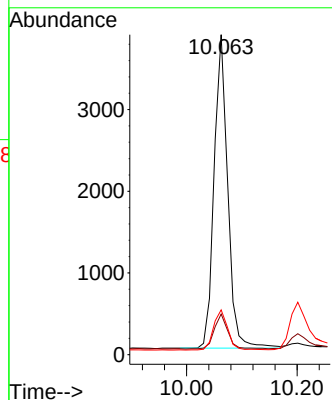
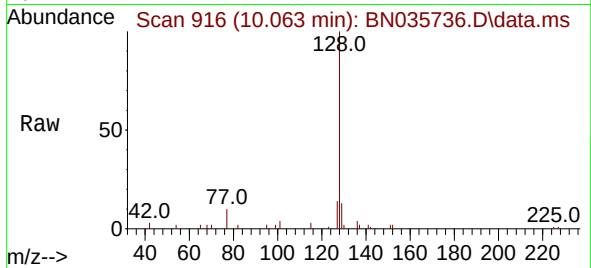




#9  
Naphthalene  
Concen: 0.270 ng  
RT: 10.063 min Scan# 916  
Delta R.T. -0.000 min  
Lab File: BN035736.D  
Acq: 20 Dec 2024 11:41

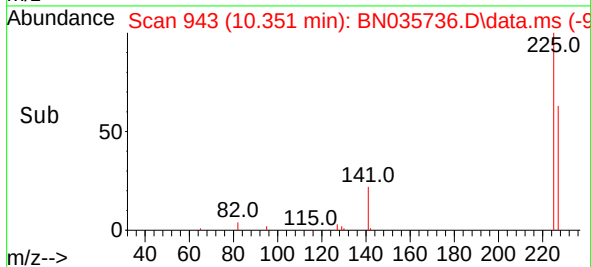
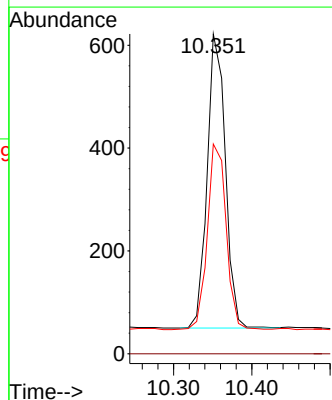
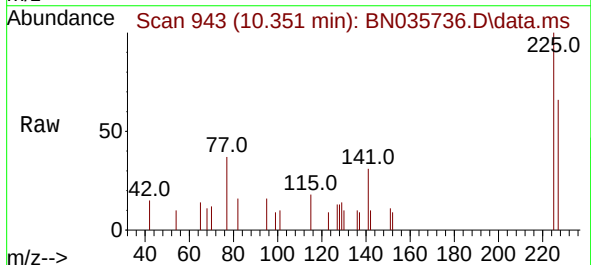
Instrument :  
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ClientSampleId :  
BPOW6-11-20241212MSD

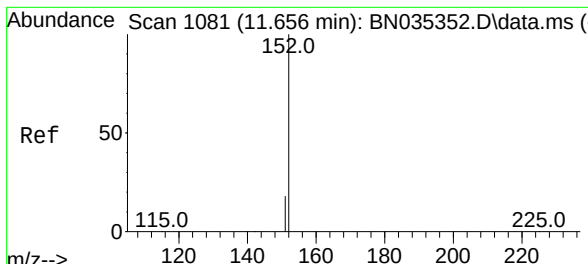
Tgt Ion:128 Resp: 6583  
Ion Ratio Lower Upper  
128 100  
129 12.7 9.8 14.6  
127 14.0 11.4 17.2



#10  
Hexachlorobutadiene  
Concen: 0.164 ng  
RT: 10.351 min Scan# 943  
Delta R.T. -0.011 min  
Lab File: BN035736.D  
Acq: 20 Dec 2024 11:41

Tgt Ion:225 Resp: 924  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 65.3 51.3 76.9

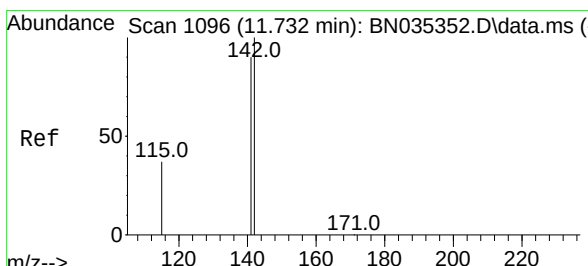
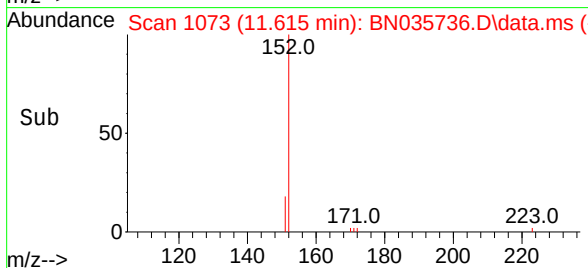
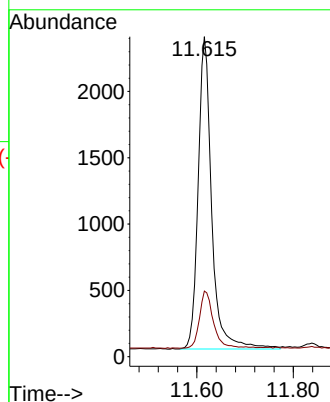
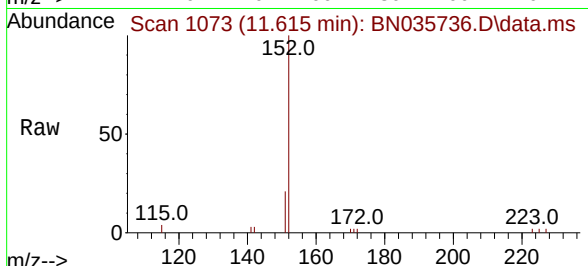




#11  
2-Methylnaphthalene-d10  
Concen: 0.317 ng  
RT: 11.615 min Scan# 1073  
Delta R.T. -0.005 min  
Lab File: BN035736.D  
Acq: 20 Dec 2024 11:41

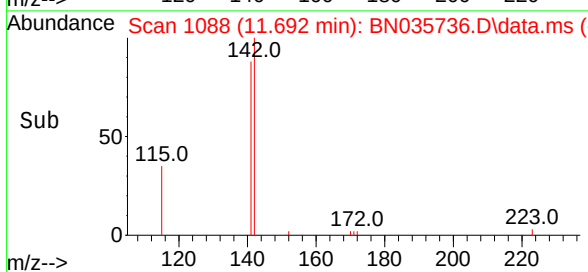
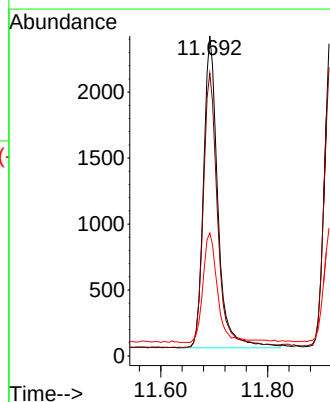
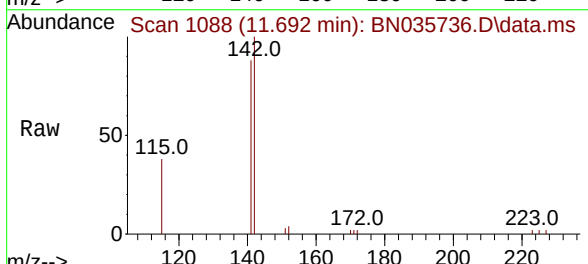
Instrument :  
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ClientSampleId :  
BPOW6-11-20241212MSD

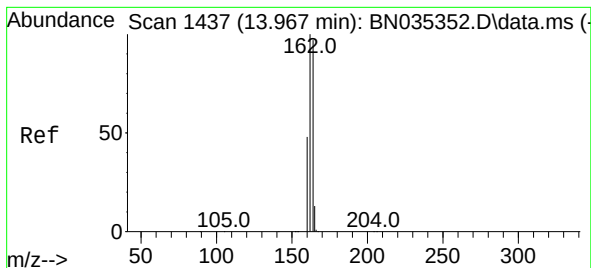
Tgt Ion:152 Resp: 4592  
Ion Ratio Lower Upper  
152 100  
151 19.0 16.6 25.0



#12  
2-Methylnaphthalene  
Concen: 0.252 ng  
RT: 11.692 min Scan# 1088  
Delta R.T. -0.005 min  
Lab File: BN035736.D  
Acq: 20 Dec 2024 11:41

Tgt Ion:142 Resp: 4392  
Ion Ratio Lower Upper  
142 100  
141 88.4 72.2 108.4  
115 38.5 31.4 47.0





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 13.924 min Scan# 1433

Delta R.T. -0.011 min

Lab File: BN035736.D

Acq: 20 Dec 2024 11:41

Instrument :

BNA\_N

ClientSampleId :

BPOW6-11-20241212MSD

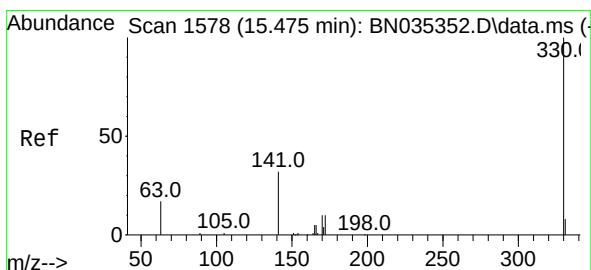
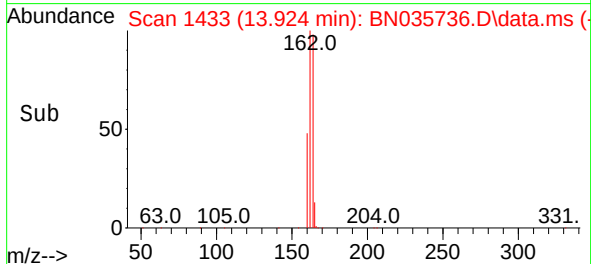
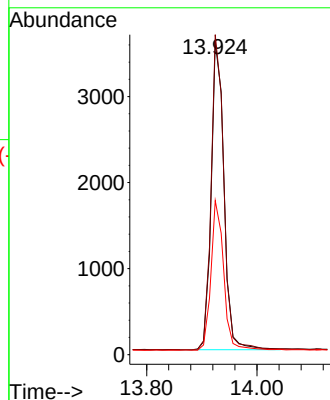
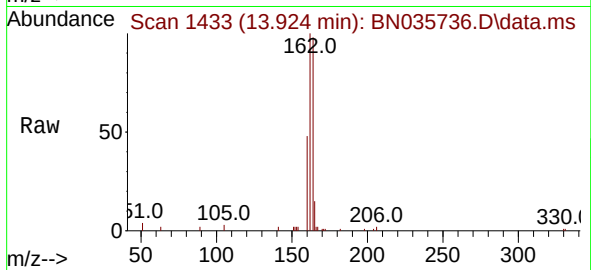
Tgt Ion:164 Resp: 5773

Ion Ratio Lower Upper

164 100

162 102.4 82.2 123.2

160 49.3 40.1 60.1



#14

2,4,6-Tribromophenol

Concen: 0.184 ng

RT: 15.453 min Scan# 1576

Delta R.T. -0.000 min

Lab File: BN035736.D

Acq: 20 Dec 2024 11:41

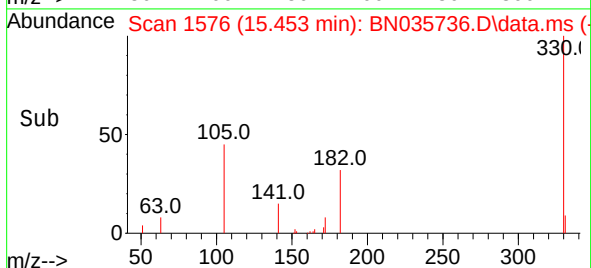
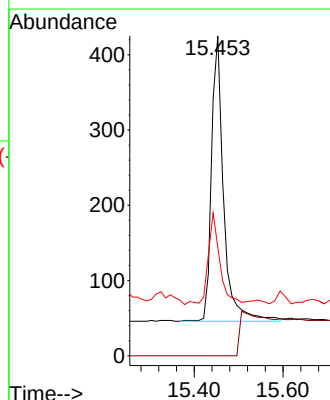
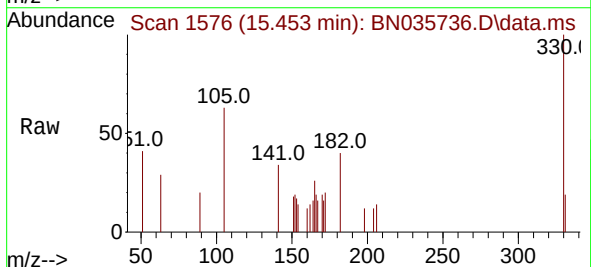
Tgt Ion:330 Resp: 754

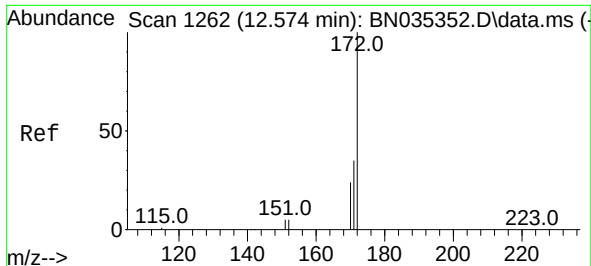
Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

141 28.5 26.6 40.0





#15

2-Fluorobiphenyl

Concen: 0.276 ng

RT: 12.538 min Scan# 1406

Delta R.T. -0.005 min

Lab File: BN035736.D

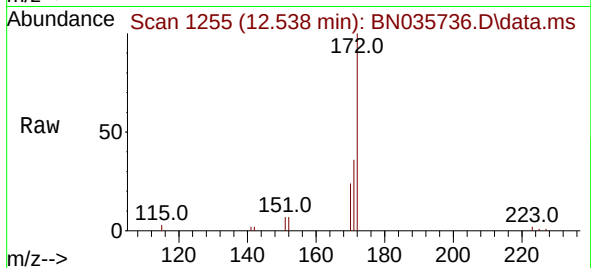
Acq: 20 Dec 2024 11:41

Instrument :

BNA\_N

ClientSampleId :

BPOW6-11-20241212MSD



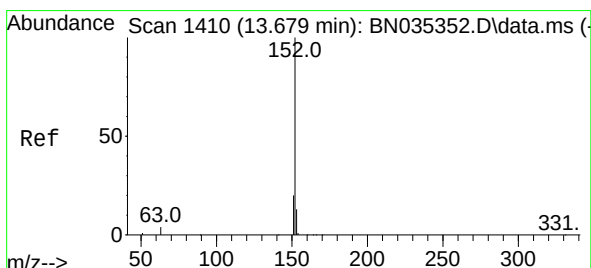
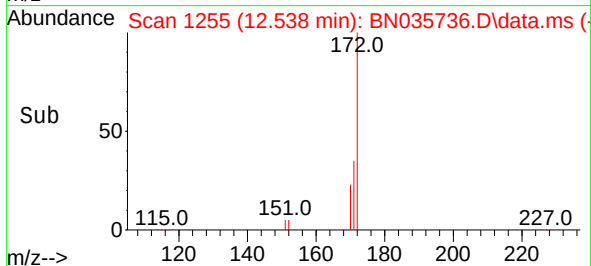
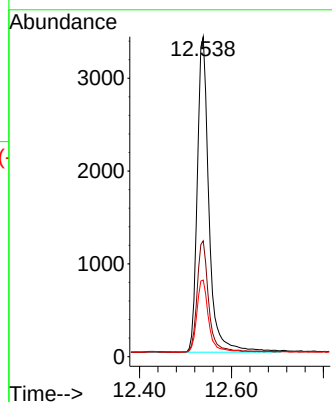
Tgt Ion:172 Resp: 6026

Ion Ratio Lower Upper

172 100

171 36.2 29.0 43.4

170 24.0 19.8 29.8



#16

Acenaphthylene

Concen: 0.303 ng

RT: 13.636 min Scan# 1406

Delta R.T. -0.011 min

Lab File: BN035736.D

Acq: 20 Dec 2024 11:41

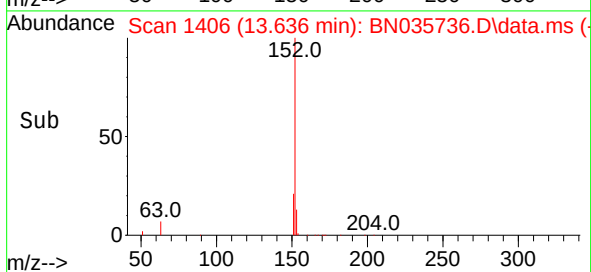
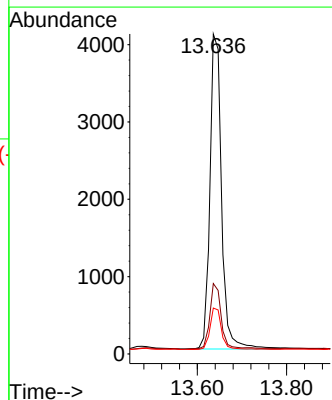
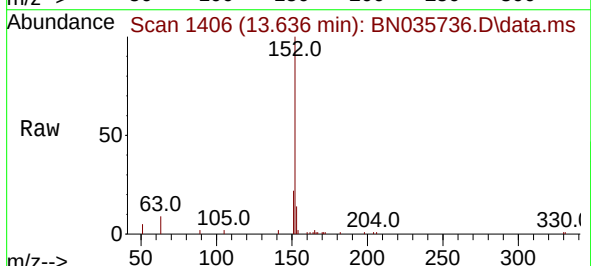
Tgt Ion:152 Resp: 7346

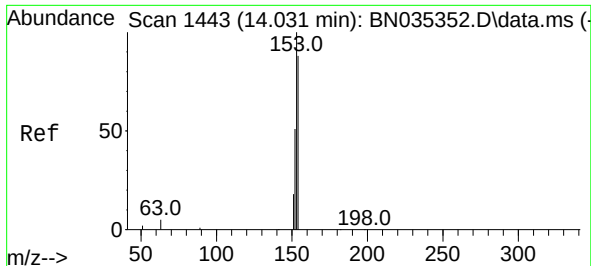
Ion Ratio Lower Upper

152 100

151 20.7 16.2 24.2

153 13.0 10.4 15.6

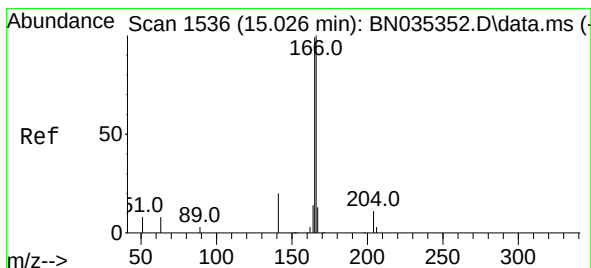
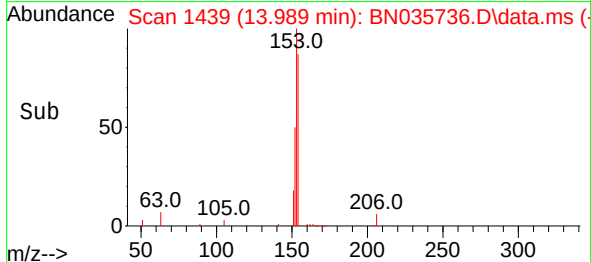
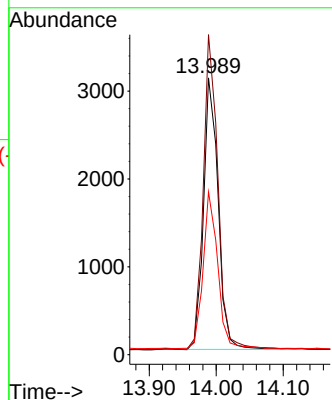
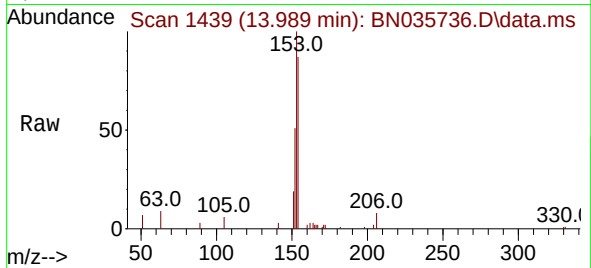




#17  
Acenaphthene  
Concen: 0.291 ng  
RT: 13.989 min Scan# 1443  
Delta R.T. -0.011 min  
Lab File: BN035736.D  
Acq: 20 Dec 2024 11:41

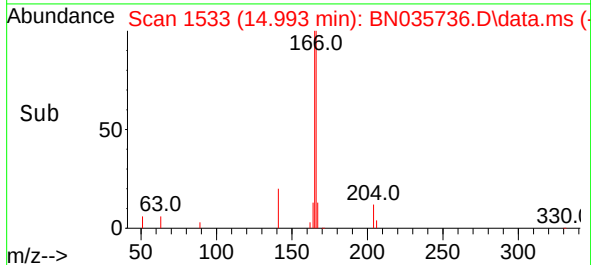
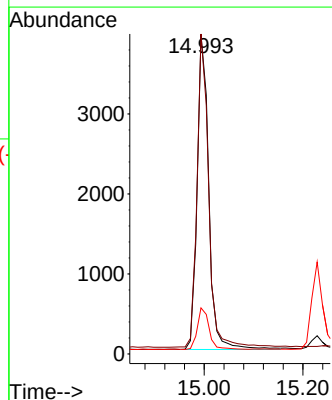
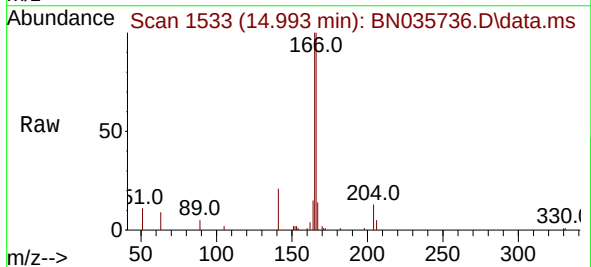
Instrument :  
BNA\_N  
ClientSampleId :  
BPOW6-11-20241212MSD

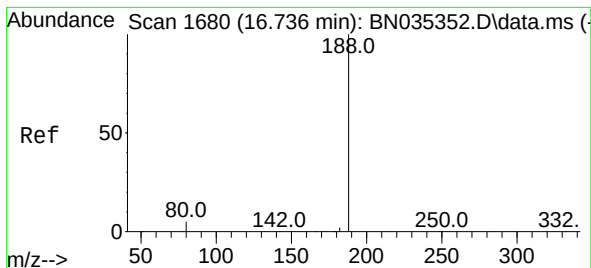
Tgt Ion:154 Resp: 4688  
Ion Ratio Lower Upper  
154 100  
153 116.3 92.6 139.0  
152 58.3 49.0 73.6



#18  
Fluorene  
Concen: 0.279 ng  
RT: 14.993 min Scan# 1533  
Delta R.T. -0.011 min  
Lab File: BN035736.D  
Acq: 20 Dec 2024 11:41

Tgt Ion:166 Resp: 6437  
Ion Ratio Lower Upper  
166 100  
165 98.6 79.7 119.5  
167 13.4 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.698 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN035736.D

Acq: 20 Dec 2024 11:41

Instrument :

BNA\_N

ClientSampleId :

BPOW6-11-20241212MSD

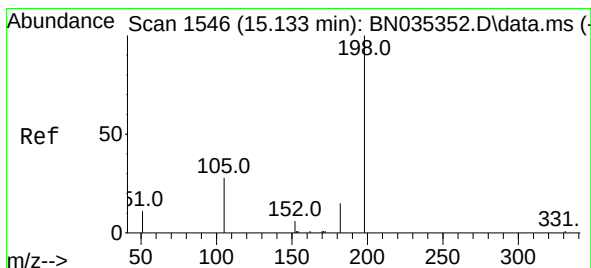
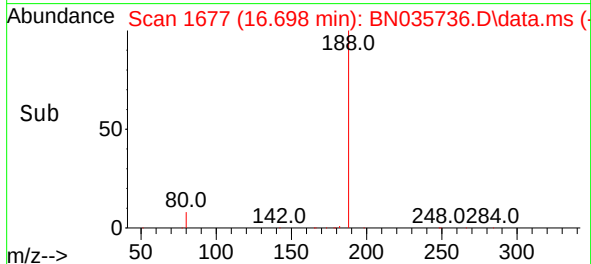
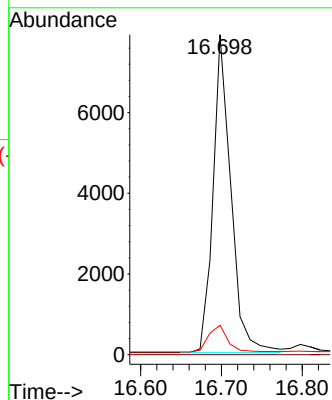
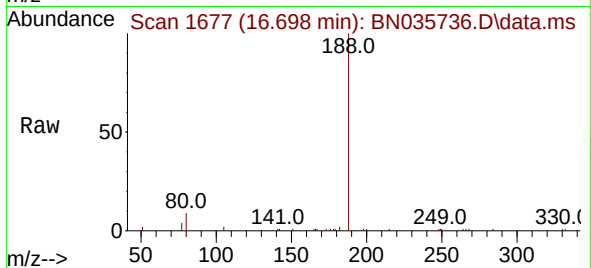
Tgt Ion:188 Resp: 12117

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.2 4.6 6.8#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.118 ng

RT: 15.122 min Scan# 1545

Delta R.T. -0.000 min

Lab File: BN035736.D

Acq: 20 Dec 2024 11:41

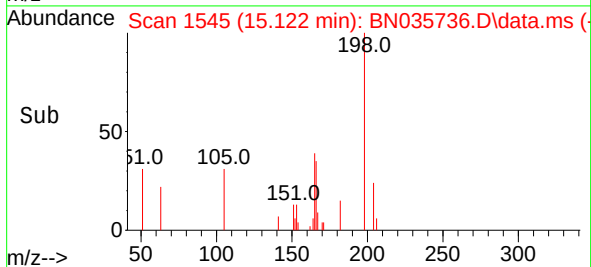
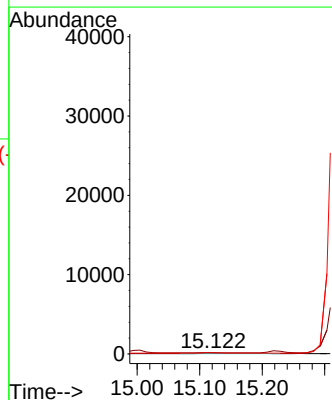
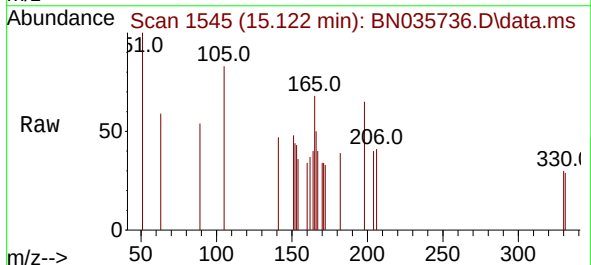
Tgt Ion:198 Resp: 141

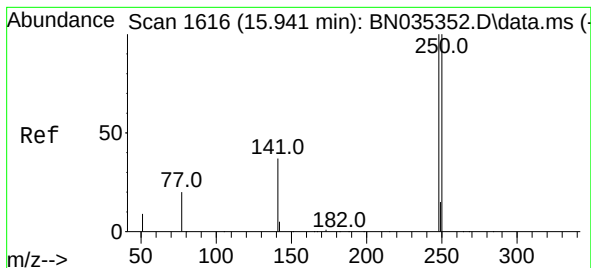
Ion Ratio Lower Upper

198 100

51 153.5 46.5 69.7#

105 127.7 45.3 67.9#

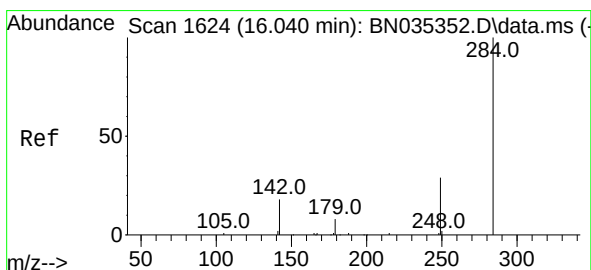
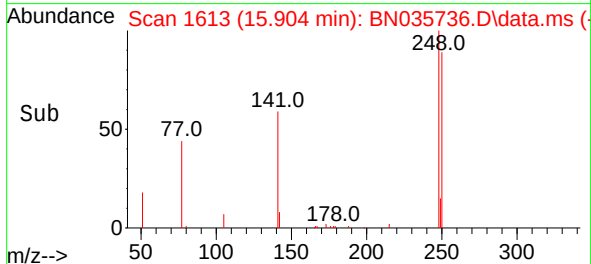
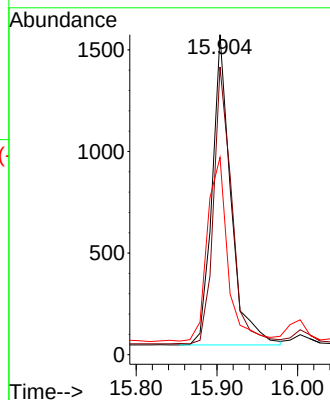
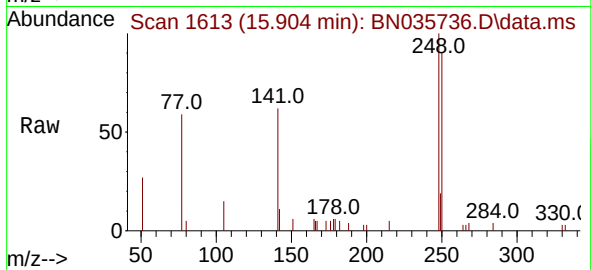




#21  
4-Bromophenyl-phenylether  
Concen: 0.348 ng  
RT: 15.904 min Scan# 1613  
Delta R.T. -0.013 min  
Lab File: BN035736.D  
Acq: 20 Dec 2024 11:41

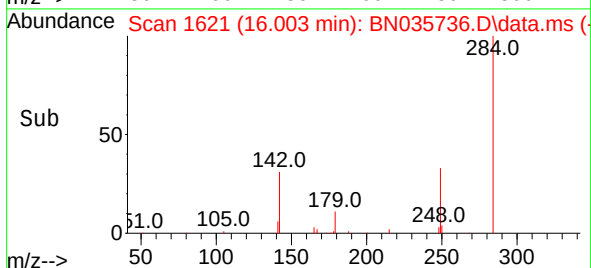
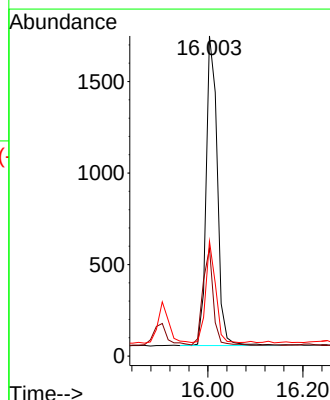
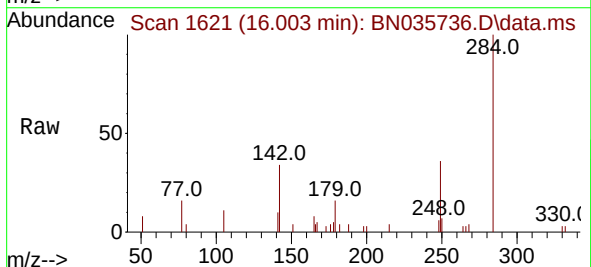
Instrument :  
BNA\_N  
ClientSampleId :  
BPOW6-11-20241212MSD

Tgt Ion:248 Resp: 2466  
Ion Ratio Lower Upper  
248 100  
250 89.9 80.6 120.8  
141 61.7 31.5 47.3#

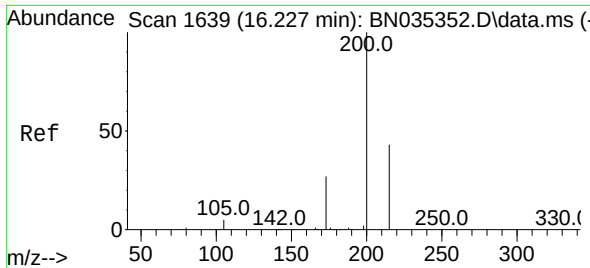


#22  
Hexachlorobenzene  
Concen: 0.333 ng  
RT: 16.003 min Scan# 1621  
Delta R.T. -0.013 min  
Lab File: BN035736.D  
Acq: 20 Dec 2024 11:41

Tgt Ion:284 Resp: 2768  
Ion Ratio Lower Upper  
284 100  
142 29.3 26.7 40.1  
249 29.0 24.6 36.8



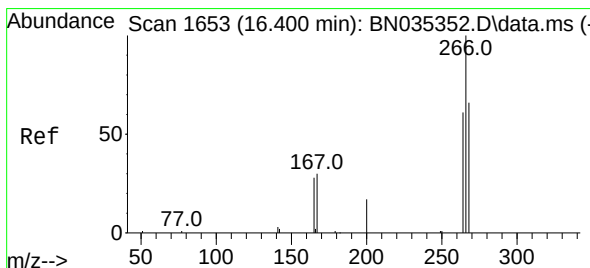
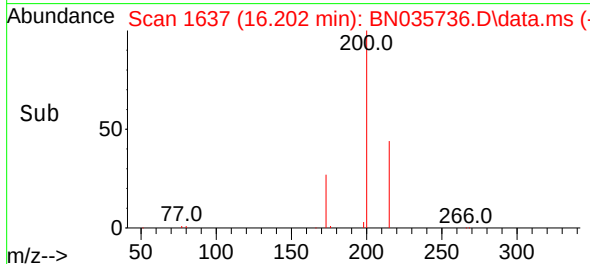
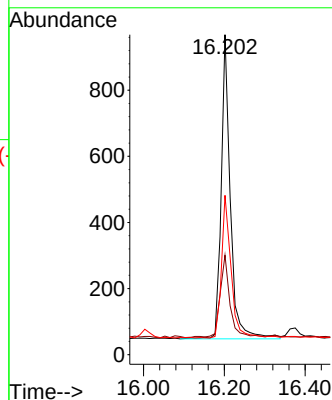
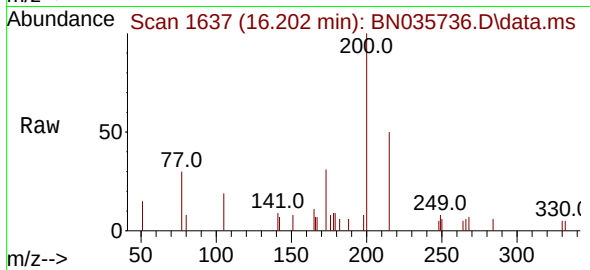




#23  
Atrazine  
Concen: 0.286 ng  
RT: 16.202 min Scan# 1637  
Delta R.T. -0.000 min  
Lab File: BN035736.D  
Acq: 20 Dec 2024 11:41

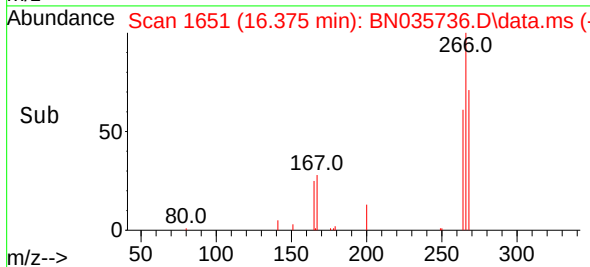
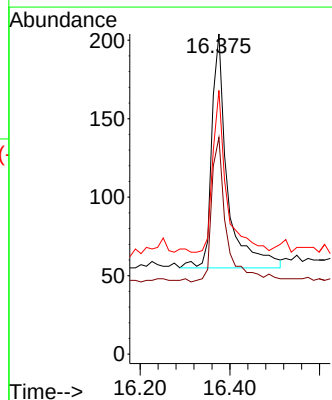
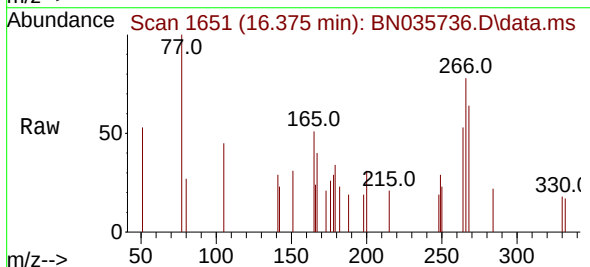
Instrument :  
BNA\_N  
ClientSampleId :  
BPOW6-11-20241212MSD

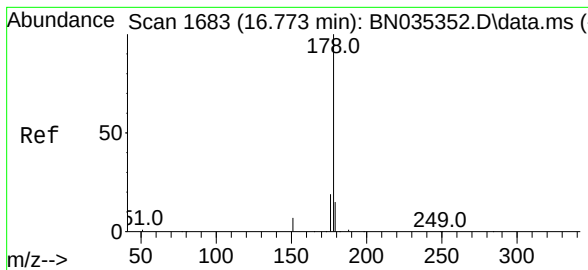
Tgt Ion:200 Resp: 1444  
Ion Ratio Lower Upper  
200 100  
173 31.1 24.1 36.1  
215 49.8 36.9 55.3



#24  
Pentachlorophenol  
Concen: 0.100 ng  
RT: 16.375 min Scan# 1651  
Delta R.T. -0.000 min  
Lab File: BN035736.D  
Acq: 20 Dec 2024 11:41

Tgt Ion:266 Resp: 361  
Ion Ratio Lower Upper  
266 100  
264 58.7 42.3 63.5  
268 59.8 43.3 64.9

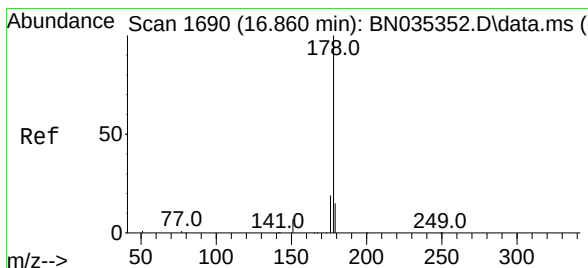
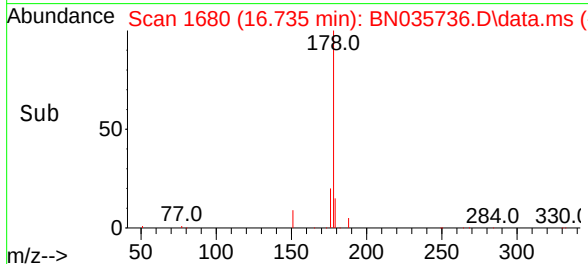
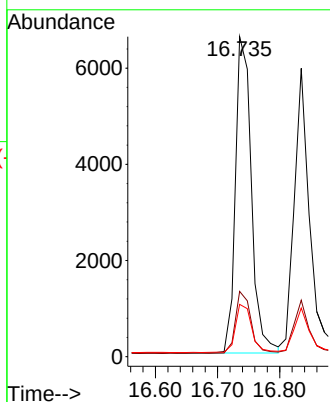
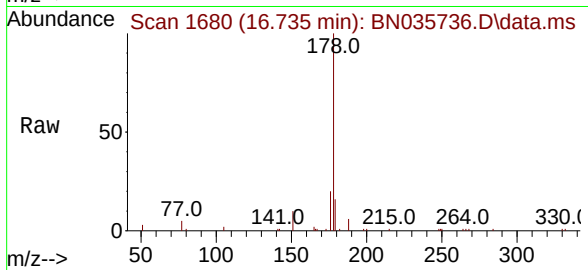




#25  
 Phenanthrene  
 Concen: 0.354 ng  
 RT: 16.735 min Scan# 1680  
 Delta R.T. -0.013 min  
 Lab File: BN035736.D  
 Acq: 20 Dec 2024 11:41

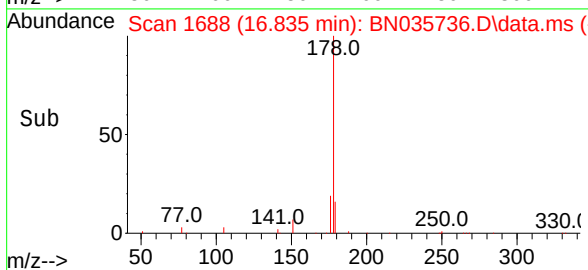
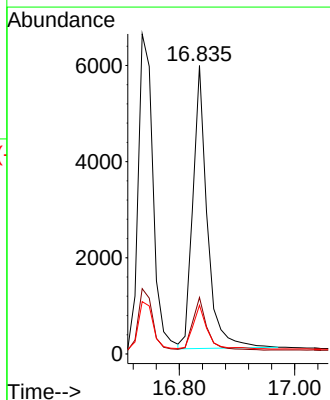
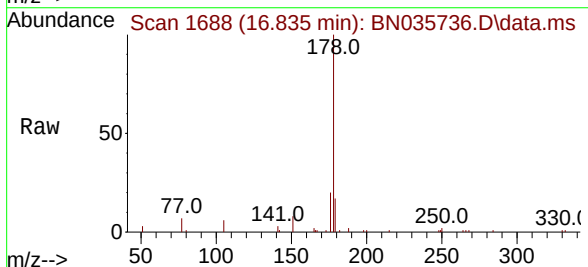
Instrument :  
 BNA\_N  
 ClientSampleId :  
 BPOW6-11-20241212MSD

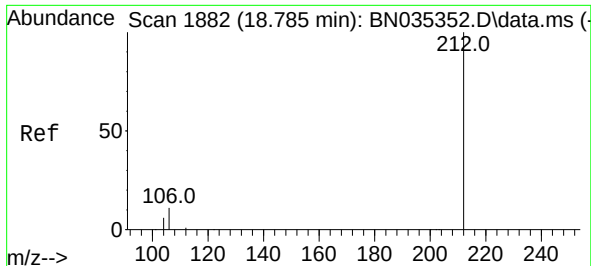
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 11782 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 176       | 19.0  | 15.4  | 23.2  |
| 179       | 15.6  | 12.3  | 18.5  |



#26  
 Anthracene  
 Concen: 0.338 ng  
 RT: 16.835 min Scan# 1688  
 Delta R.T. -0.000 min  
 Lab File: BN035736.D  
 Acq: 20 Dec 2024 11:41

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 10189 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 176       | 18.6  | 15.0  | 22.6  |
| 179       | 15.9  | 12.6  | 18.8  |

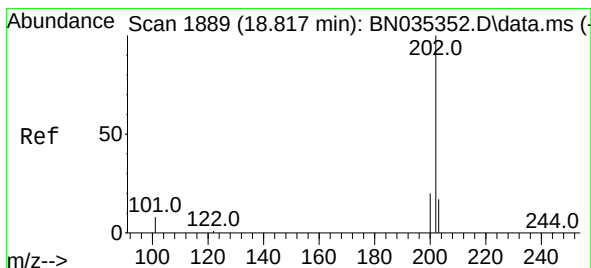
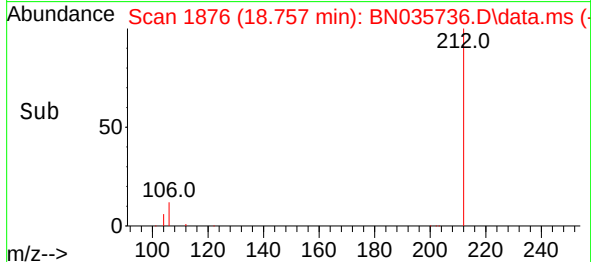
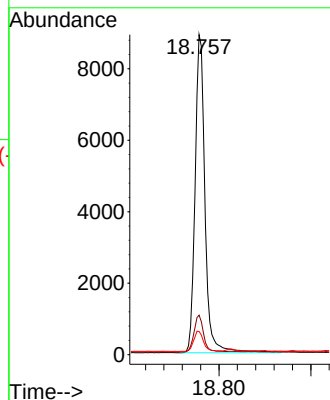
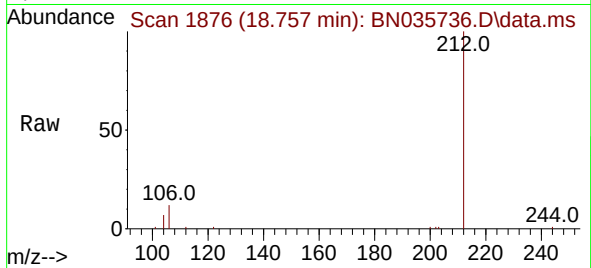




#27  
Fluoranthene-d10  
Concen: 0.387 ng  
RT: 18.757 min Scan# 1876  
Delta R.T. -0.005 min  
Lab File: BN035736.D  
Acq: 20 Dec 2024 11:41

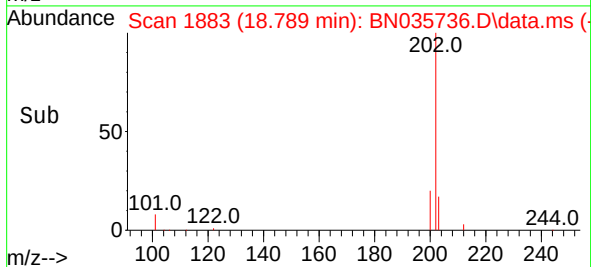
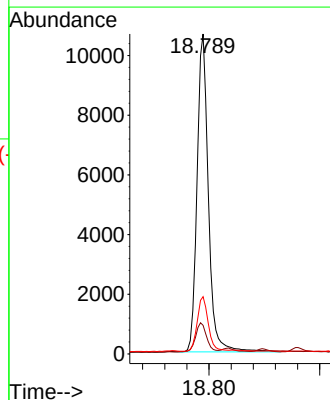
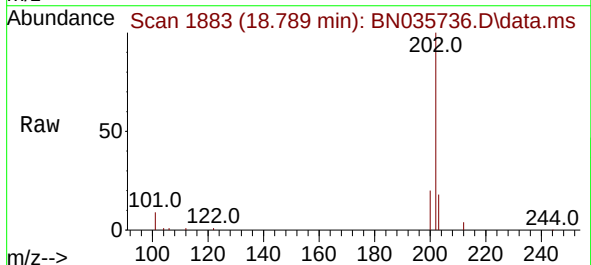
Instrument :  
BNA\_N  
ClientSampleId :  
BPOW6-11-20241212MSD

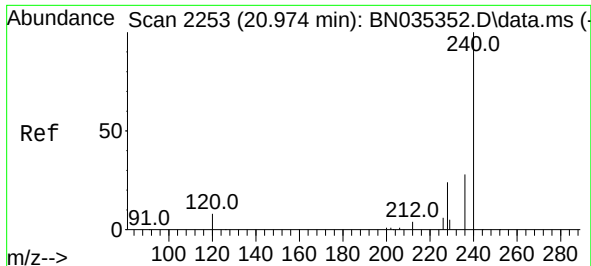
Tgt Ion:212 Resp: 13288  
Ion Ratio Lower Upper  
212 100  
106 11.1 9.2 13.8  
104 6.3 5.3 7.9



#28  
Fluoranthene  
Concen: 0.339 ng  
RT: 18.789 min Scan# 1883  
Delta R.T. -0.000 min  
Lab File: BN035736.D  
Acq: 20 Dec 2024 11:41

Tgt Ion:202 Resp: 15192  
Ion Ratio Lower Upper  
202 100  
101 8.9 7.4 11.0  
203 16.7 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.947 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035736.D

Acq: 20 Dec 2024 11:41

Instrument :

BNA\_N

ClientSampleId :

BPOW6-11-20241212MSD

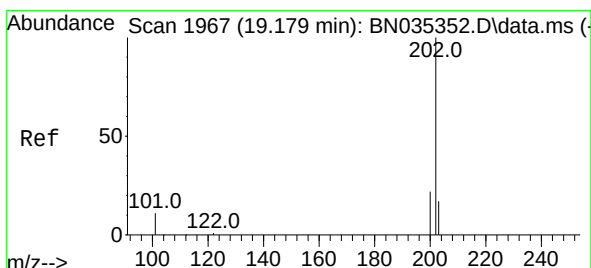
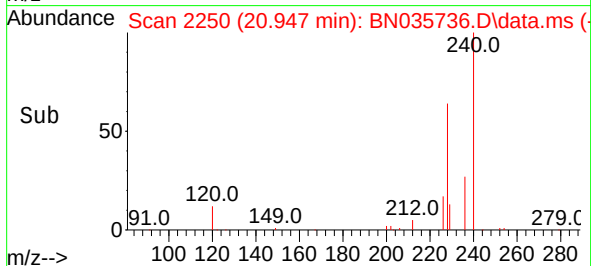
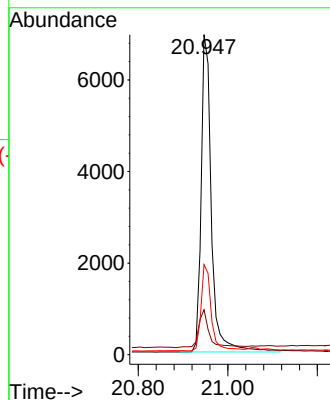
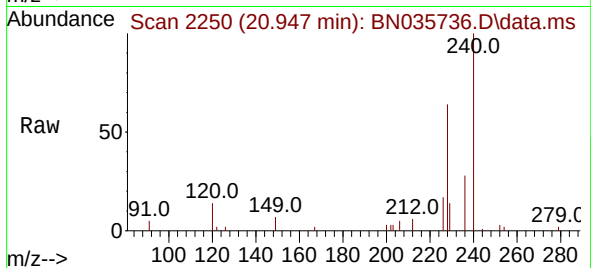
Tgt Ion:240 Resp: 11029

Ion Ratio Lower Upper

240 100

120 14.0 7.9 11.9#

236 28.1 22.9 34.3



#30

Pyrene

Concen: 0.391 ng

RT: 19.156 min Scan# 1962

Delta R.T. -0.005 min

Lab File: BN035736.D

Acq: 20 Dec 2024 11:41

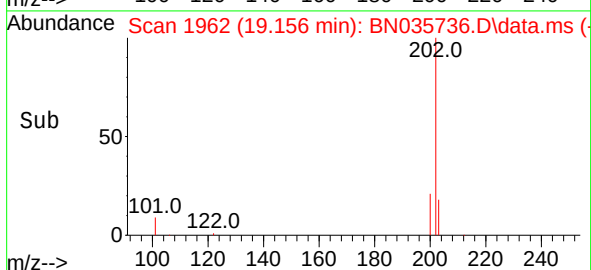
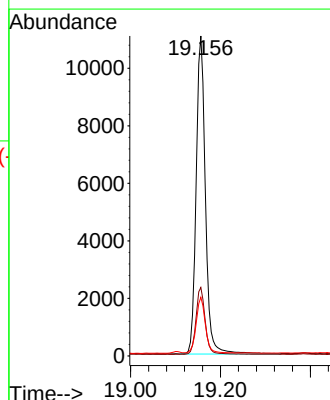
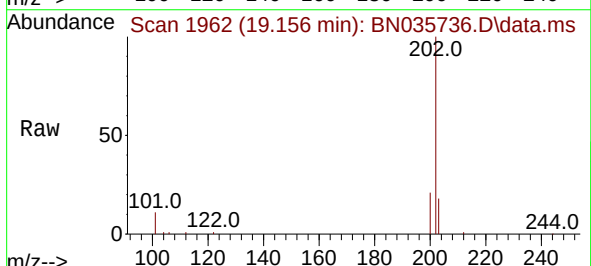
Tgt Ion:202 Resp: 15901

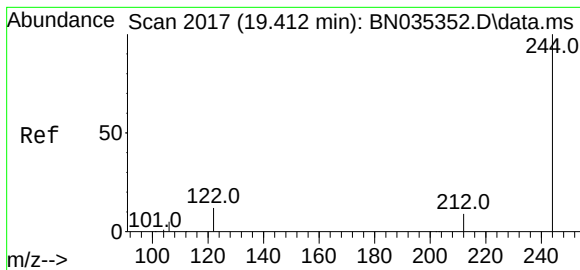
Ion Ratio Lower Upper

202 100

200 20.8 17.0 25.4

203 17.2 14.3 21.5





#31

Terphenyl-d14

Concen: 0.486 ng

RT: 19.388 min Scan# 2017

Delta R.T. -0.000 min

Lab File: BN035736.D

Acq: 20 Dec 2024 11:41

Instrument :

BNA\_N

ClientSampleId :

BPOW6-11-20241212MSD

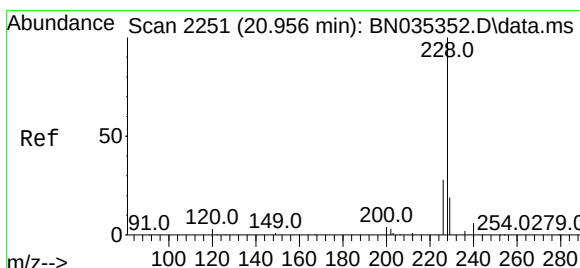
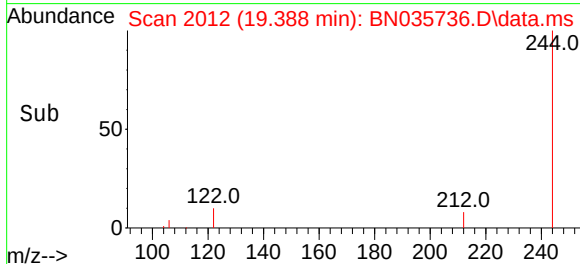
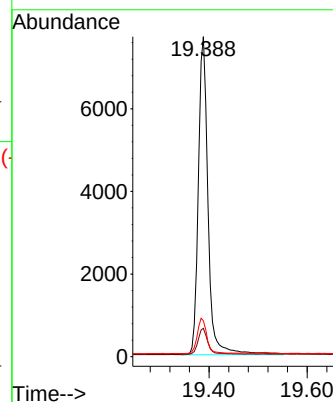
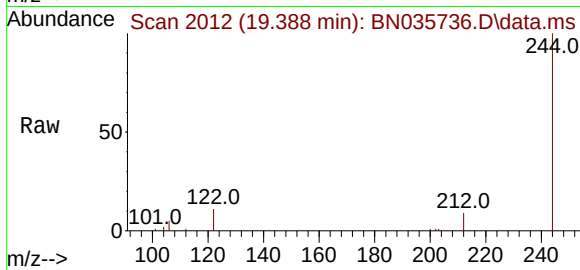
Tgt Ion:244 Resp: 10572

Ion Ratio Lower Upper

244 100

212 8.9 8.1 12.1

122 11.3 10.3 15.5



#32

Benzo(a)anthracene

Concen: 0.350 ng

RT: 20.938 min Scan# 2249

Delta R.T. -0.000 min

Lab File: BN035736.D

Acq: 20 Dec 2024 11:41

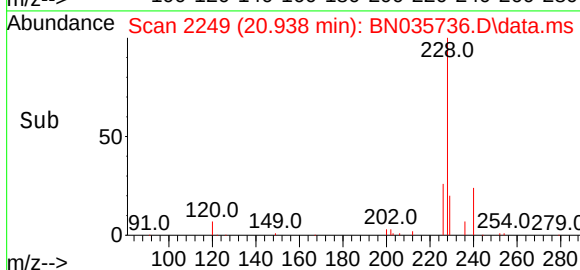
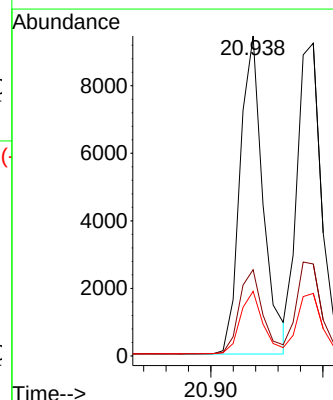
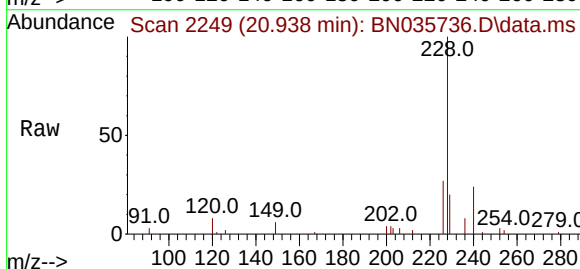
Tgt Ion:228 Resp: 13511

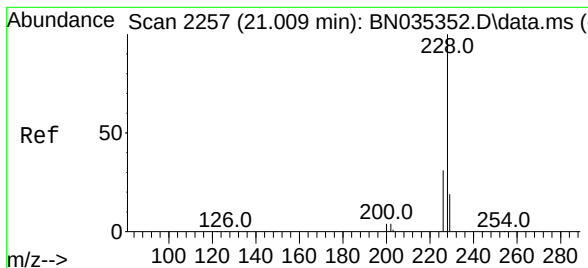
Ion Ratio Lower Upper

228 100

226 26.9 22.5 33.7

229 20.2 15.8 23.8





#33

Chrysene

Concen: 0.377 ng

RT: 20.991 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035736.D

Acq: 20 Dec 2024 11:41

Instrument :

BNA\_N

ClientSampleId :

BPOW6-11-20241212MSD

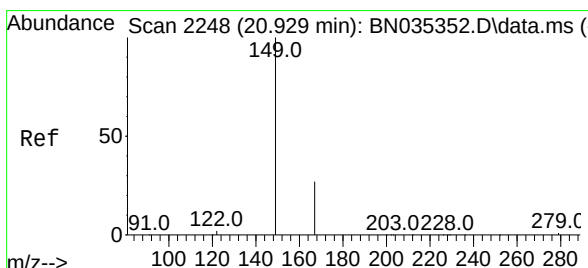
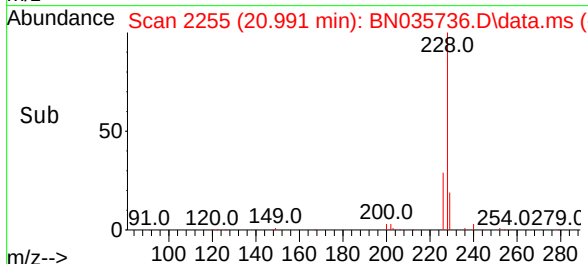
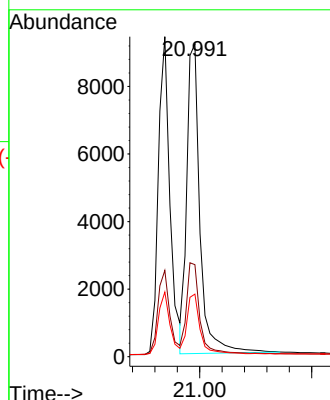
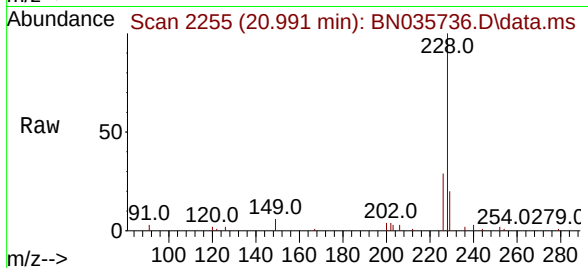
Tgt Ion:228 Resp: 15009

Ion Ratio Lower Upper

228 100

226 29.4 24.6 37.0

229 20.0 15.9 23.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.478 ng

RT: 20.911 min Scan# 2246

Delta R.T. -0.000 min

Lab File: BN035736.D

Acq: 20 Dec 2024 11:41

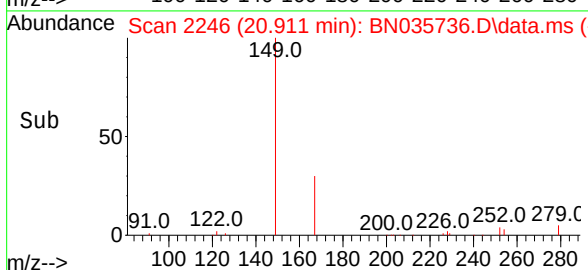
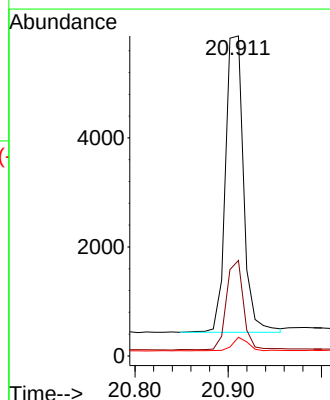
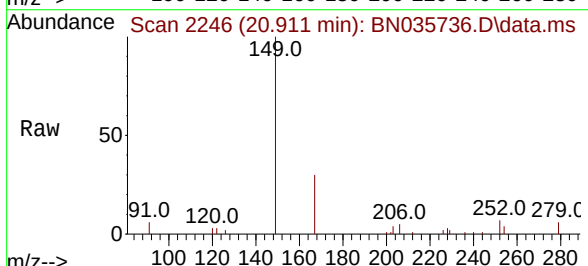
Tgt Ion:149 Resp: 7279

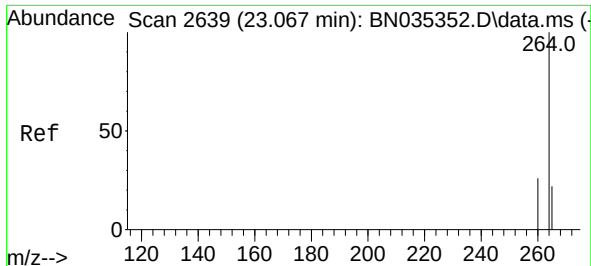
Ion Ratio Lower Upper

149 100

167 28.2 22.2 33.4

279 4.2 2.7 4.1#

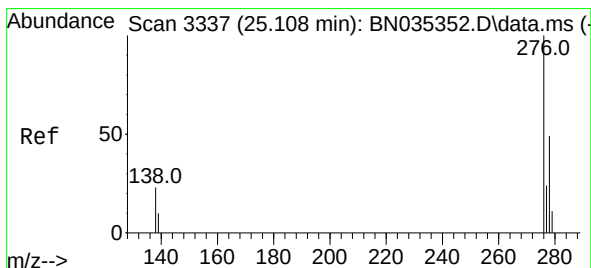
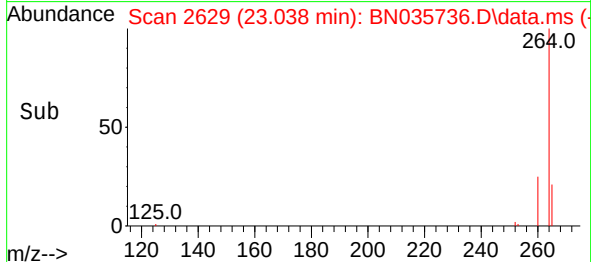
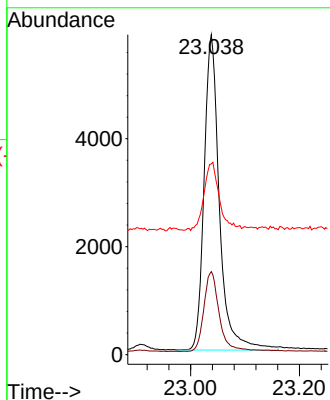
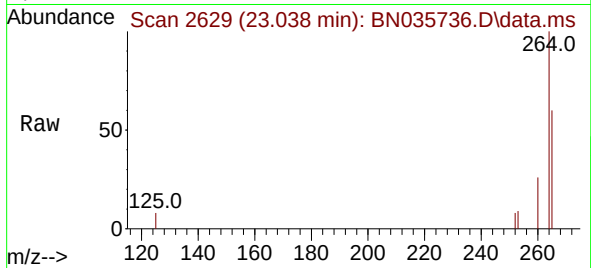




#35  
 Perylene-d12  
 Concen: 0.400 ng  
 RT: 23.038 min Scan# 2  
 Delta R.T. -0.003 min  
 Lab File: BN035736.D  
 Acq: 20 Dec 2024 11:41

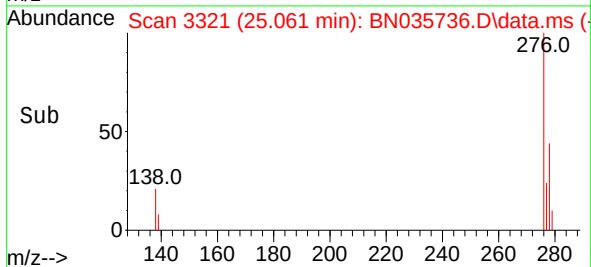
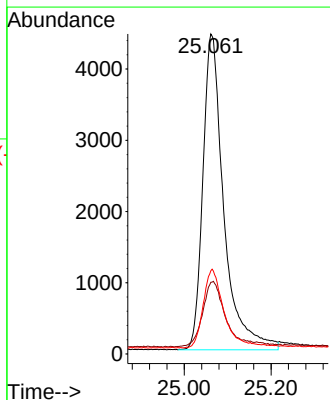
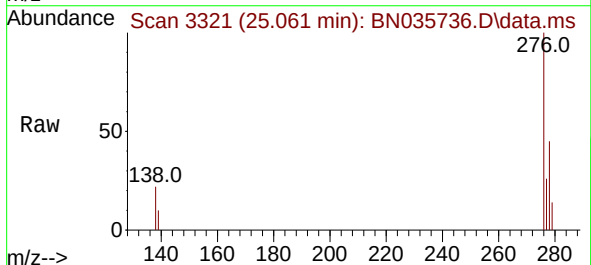
Instrument :  
 BNA\_N  
 ClientSampleId :  
 BPOW6-11-20241212MSD

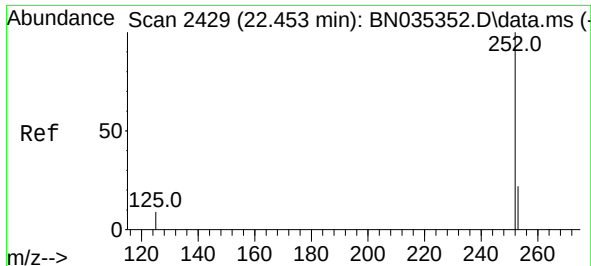
Tgt Ion:264 Resp: 11370  
 Ion Ratio Lower Upper  
 264 100  
 260 25.9 21.4 32.2  
 265 59.6 40.2 60.4



#36  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.335 ng  
 RT: 25.061 min Scan# 3321  
 Delta R.T. -0.006 min  
 Lab File: BN035736.D  
 Acq: 20 Dec 2024 11:41

Tgt Ion:276 Resp: 14877  
 Ion Ratio Lower Upper  
 276 100  
 138 22.3 19.4 29.0  
 277 24.7 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.516 ng

RT: 22.427 min Scan# 2420

Delta R.T. -0.003 min

Lab File: BN035736.D

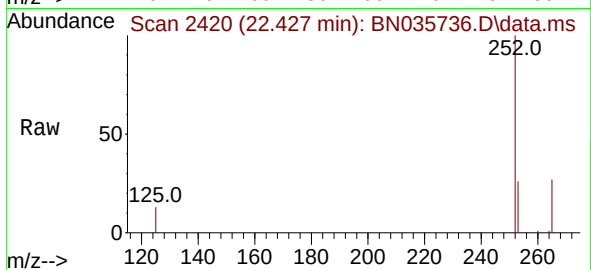
Acq: 20 Dec 2024 11:41

Instrument :

BNA\_N

ClientSampleId :

BPOW6-11-20241212MSD



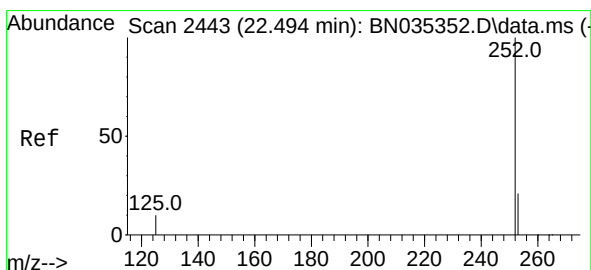
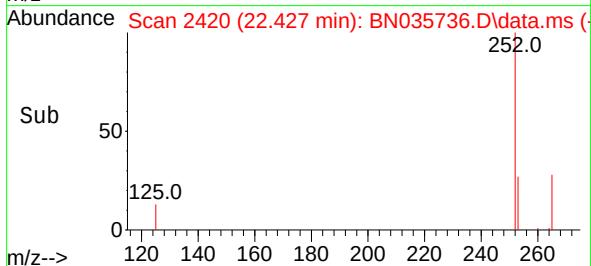
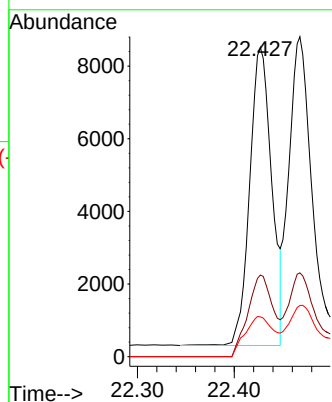
Tgt Ion:252 Resp: 21467

Ion Ratio Lower Upper

252 100

253 26.4 19.6 29.4

125 12.9 9.6 14.4



#38

Benzo(k)fluoranthene

Concen: 0.524 ng

RT: 22.427 min Scan# 2420

Delta R.T. -0.044 min

Lab File: BN035736.D

Acq: 20 Dec 2024 11:41

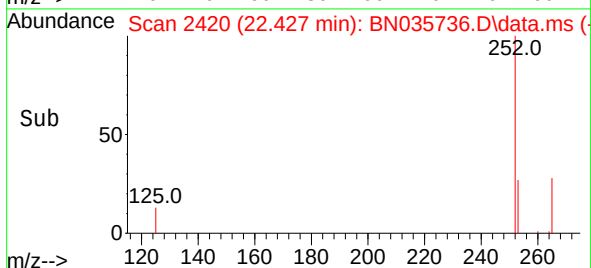
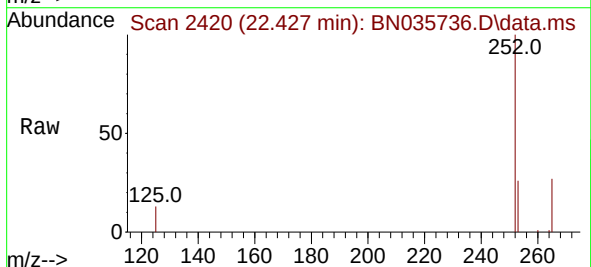
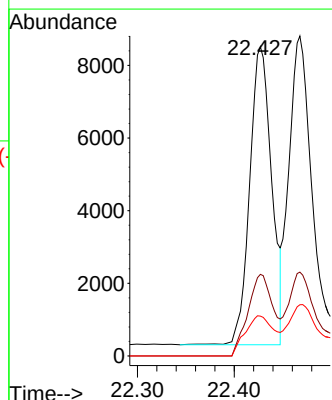
Tgt Ion:252 Resp: 21467

Ion Ratio Lower Upper

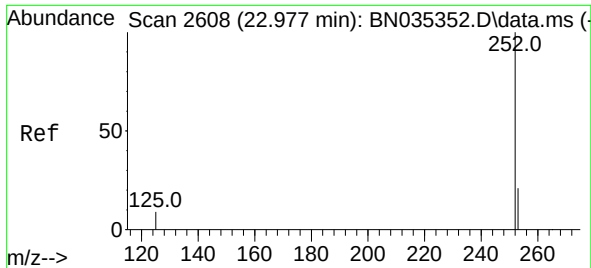
252 100

253 26.4 19.5 29.3

125 12.9 10.2 15.4



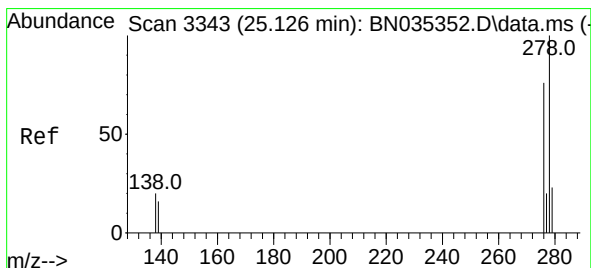
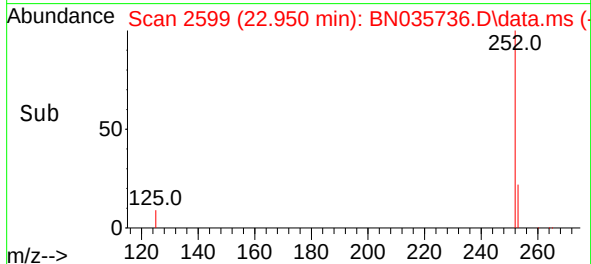
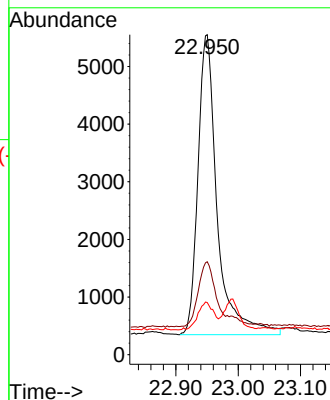
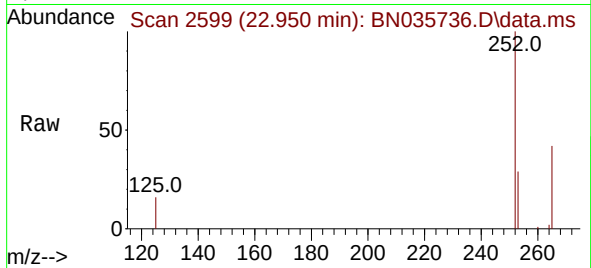




#39  
Benzo(a)pyrene  
Concen: 0.326 ng  
RT: 22.950 min Scan# 211  
Delta R.T. -0.000 min  
Lab File: BN035736.D  
Acq: 20 Dec 2024 11:41

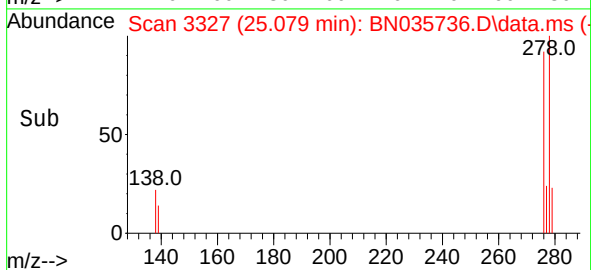
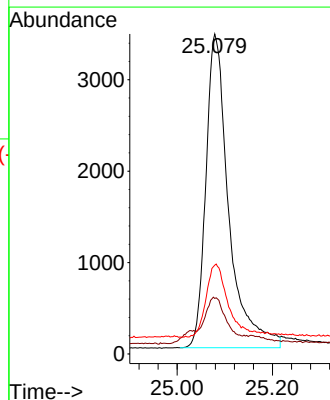
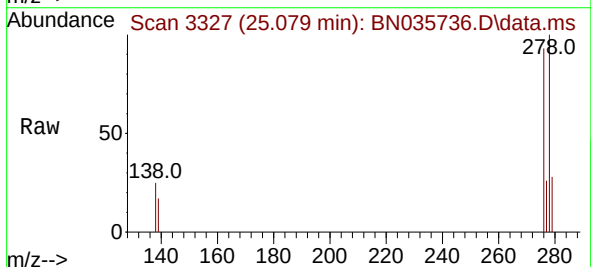
Instrument :  
BNA\_N  
ClientSampleId :  
BPOW6-11-20241212MSD

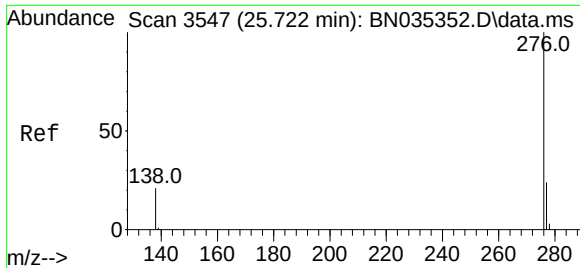
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:252 | Resp: | 11175     |
| Ion Ratio   | Lower | Upper     |
| 252         | 100   |           |
| 253         | 29.1  | 20.2 30.4 |
| 125         | 16.3  | 10.9 16.3 |



#40  
Dibenzo(a,h)anthracene  
Concen: 0.327 ng  
RT: 25.079 min Scan# 3327  
Delta R.T. -0.003 min  
Lab File: BN035736.D  
Acq: 20 Dec 2024 11:41

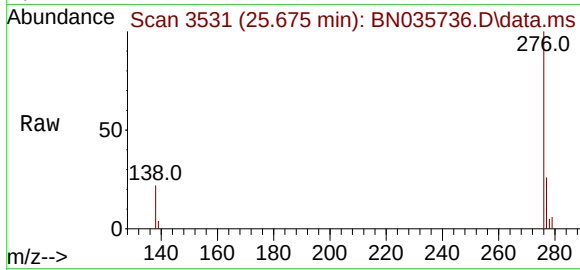
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:278 | Resp: | 11466     |
| Ion Ratio   | Lower | Upper     |
| 278         | 100   |           |
| 139         | 17.3  | 14.2 21.4 |
| 279         | 27.7  | 20.5 30.7 |



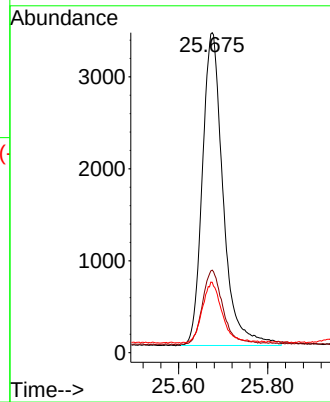
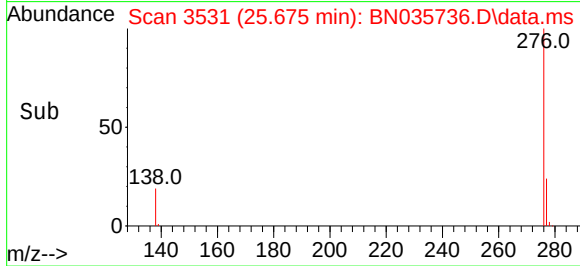


#41  
Benzo(g,h,i)perylene  
Concen: 0.301 ng  
RT: 25.675 min Scan# 3531  
Delta R.T. -0.003 min  
Lab File: BN035736.D  
Acq: 20 Dec 2024 11:41

Instrument :  
BNA\_N  
ClientSampleId :  
BPOW6-11-20241212MSD



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 276   | Resp: | 11017 |
| Ion      | Ratio | Lower | Upper |
| 276      | 100   |       |       |
| 277      | 25.8  | 19.9  | 29.9  |
| 138      | 22.0  | 17.8  | 26.8  |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN121924\  
 Data File : BN035747.D  
 Acq On : 20 Dec 2024 18:18  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 38 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4EC

Quant Time: Dec 21 01:42:41 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Dec 19 23:06:19 2024  
 Response via : Initial Calibration

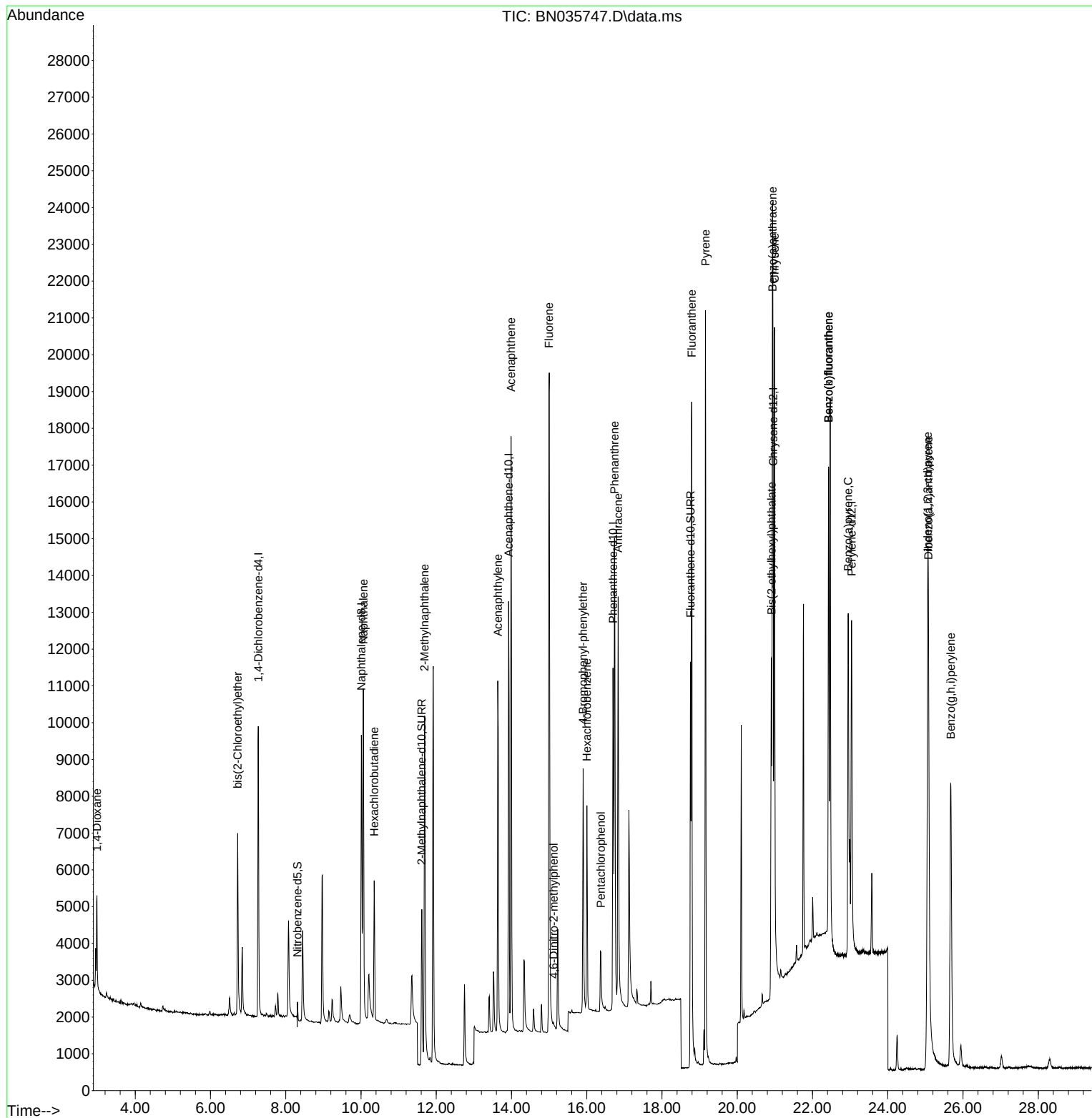
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.272  | 152  | 4145     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.009 | 136  | 11402    | 0.400 | ng    | -0.01    |
| 13) Acenaphthene-d10          | 13.924 | 164  | 7019     | 0.400 | ng    | -0.01    |
| 19) Phenanthrene-d10          | 16.698 | 188  | 13951    | 0.400 | ng    | # 0.00   |
| 29) Chrysene-d12              | 20.956 | 240  | 11878    | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.038 | 264  | 12200    | 0.400 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 4.924  | 112  | 10       | 0.001 | ng    | -0.01    |
| 5) Phenol-d6                  | 6.484  | 99   | 102      | 0.008 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.312  | 82   | 427      | 0.061 | ng    | -0.10    |
| 11) 2-Methylnaphthalene-d10   | 11.616 | 152  | 7049     | 0.395 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.443 | 330  | 9        | 0.002 | ng    | -0.01    |
| 15) 2-Fluorobiphenyl          | 12.544 | 172  | 12       | 0.000 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 18.757 | 212  | 14421    | 0.365 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.393 | 244  | 35       | 0.001 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
|                               |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 2.982  | 88   | 1859     | 0.469 | ng    | 99       |
| 6) bis(2-Chloroethyl)ether    | 6.723  | 93   | 4332     | 0.413 | ng    | 98       |
| 9) Naphthalene                | 10.063 | 128  | 12423    | 0.413 | ng    | 99       |
| 10) Hexachlorobutadiene       | 10.351 | 225  | 3142     | 0.453 | ng    | # 99     |
| 12) 2-Methylnaphthalene       | 11.692 | 142  | 8345     | 0.388 | ng    | 99       |
| 16) Acenaphthylene            | 13.636 | 152  | 11936    | 0.405 | ng    | 100      |
| 17) Acenaphthene              | 13.989 | 154  | 8162     | 0.417 | ng    | 98       |
| 18) Fluorene                  | 14.993 | 166  | 10307    | 0.368 | ng    | 99       |
| 20) 4,6-Dinitro-2-methylph... | 15.122 | 198  | 168      | 0.122 | ng    | # 3      |
| 21) 4-Bromophenyl-phenylether | 15.904 | 248  | 3188     | 0.391 | ng    | # 83     |
| 22) Hexachlorobenzene         | 16.003 | 284  | 4408     | 0.460 | ng    | 97       |
| 24) Pentachlorophenol         | 16.376 | 266  | 1329     | 0.319 | ng    | 86       |
| 25) Phenanthrene              | 16.735 | 178  | 15452    | 0.403 | ng    | 100      |
| 26) Anthracene                | 16.835 | 178  | 14156    | 0.408 | ng    | 99       |
| 28) Fluoranthene              | 18.789 | 202  | 18255    | 0.353 | ng    | 100      |
| 30) Pyrene                    | 19.156 | 202  | 19874    | 0.453 | ng    | 100      |
| 32) Benzo(a)anthracene        | 20.938 | 228  | 16354    | 0.394 | ng    | 99       |
| 33) Chrysene                  | 20.991 | 228  | 18340    | 0.428 | ng    | 98       |
| 34) Bis(2-ethylhexyl)phtha... | 20.911 | 149  | 7490     | 0.456 | ng    | 98       |
| 36) Indeno(1,2,3-cd)pyrene    | 25.061 | 276  | 21102    | 0.442 | ng    | 99       |
| 37) Benzo(b)fluoranthene      | 22.427 | 252  | 21982    | 0.493 | ng    | 99       |
| 38) Benzo(k)fluoranthene      | 22.427 | 252  | 21982    | 0.500 | ng    | 99       |
| 39) Benzo(a)pyrene            | 22.947 | 252  | 15636    | 0.425 | ng    | 98       |
| 40) Dibenzo(a,h)anthracene    | 25.082 | 278  | 15847    | 0.421 | ng    | 98       |
| 41) Benzo(g,h,i)perylene      | 25.675 | 276  | 16995    | 0.432 | ng    | 98       |
| -----                         |        |      |          |       |       |          |

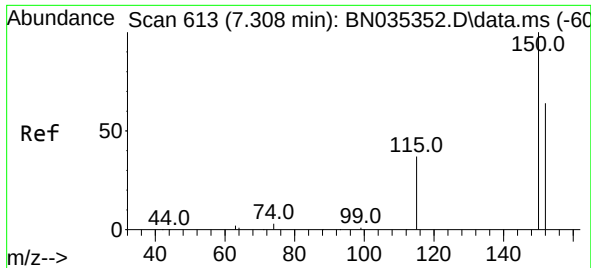
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN121924\  
Data File : BN035747.D  
Acq On : 20 Dec 2024 18:18  
Operator : RC/JU  
Sample : SSTDCCC0.4  
Misc :  
ALS Vial : 38 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

Quant Time: Dec 21 01:42:41 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Dec 19 23:06:19 2024  
Response via : Initial Calibration

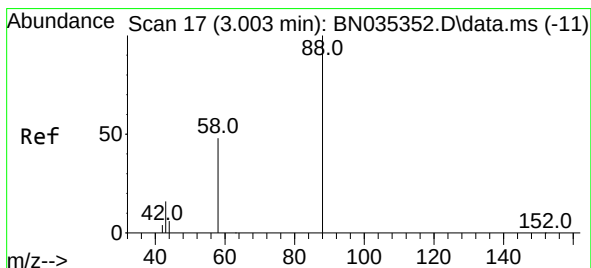
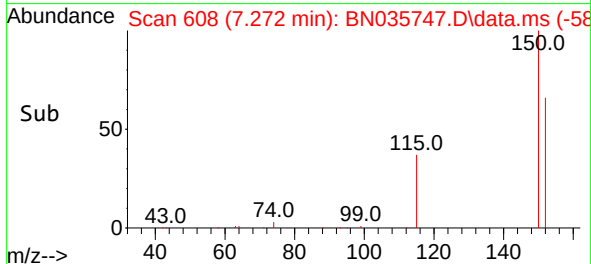
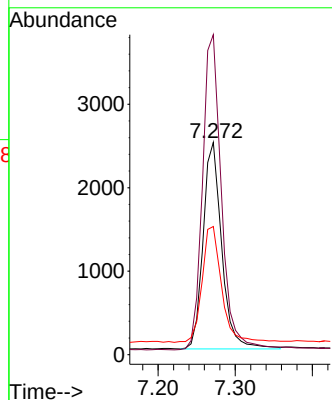
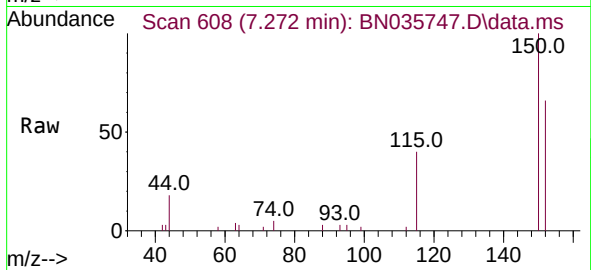




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 0.400 ng  
 RT: 7.272 min Scan# 60  
 Delta R.T. -0.000 min  
 Lab File: BN035747.D  
 Acq: 20 Dec 2024 18:18

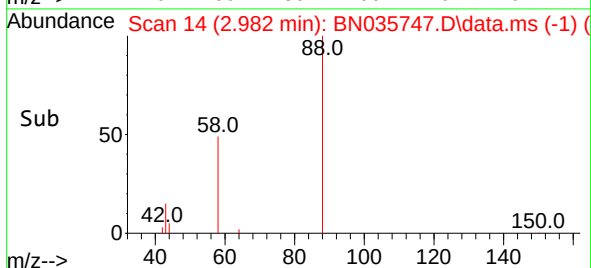
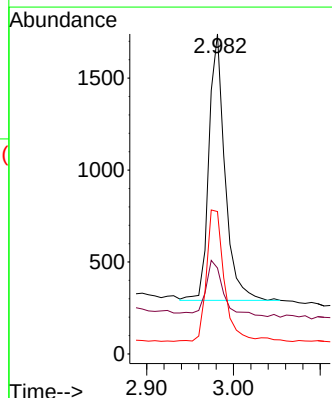
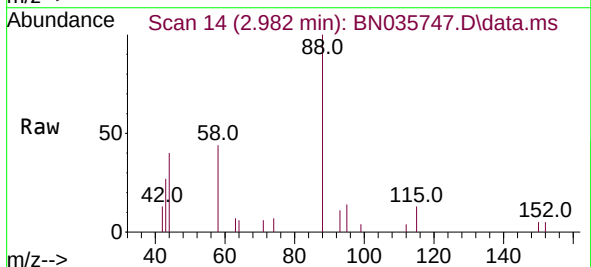
Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4EC

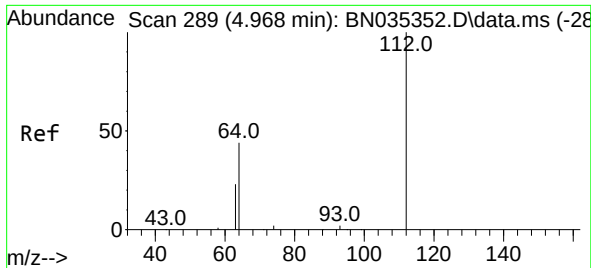
Tgt Ion:152 Resp: 4145  
 Ion Ratio Lower Upper  
 152 100  
 150 150.8 124.0 186.0  
 115 60.4 49.6 74.4



#2  
 1,4-Dioxane  
 Concen: 0.469 ng  
 RT: 2.982 min Scan# 14  
 Delta R.T. -0.000 min  
 Lab File: BN035747.D  
 Acq: 20 Dec 2024 18:18

Tgt Ion: 88 Resp: 1859  
 Ion Ratio Lower Upper  
 88 100  
 43 23.8 17.2 25.8  
 58 55.6 44.5 66.7

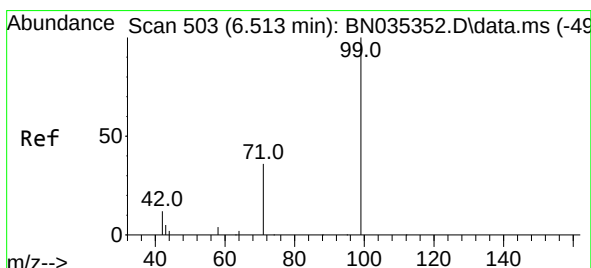
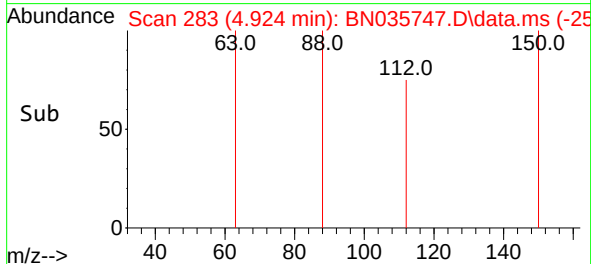
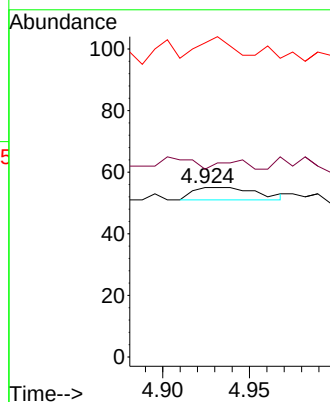
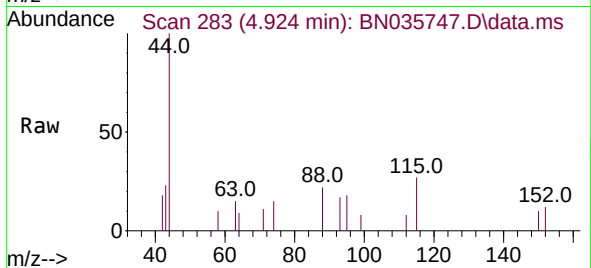




#4  
2-Fluorophenol  
Concen: 0.001 ng  
RT: 4.924 min Scan# 21  
Delta R.T. -0.015 min  
Lab File: BN035747.D  
Acq: 20 Dec 2024 18:18

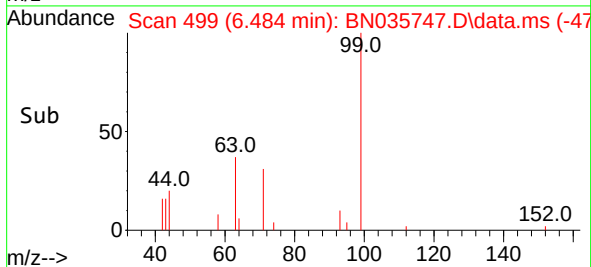
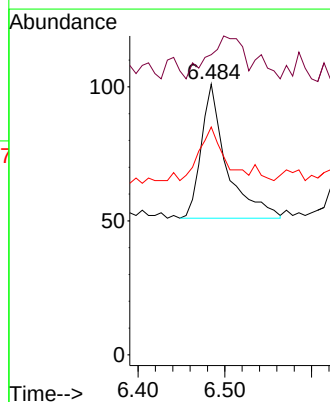
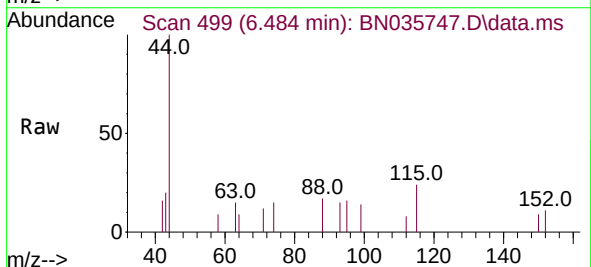
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

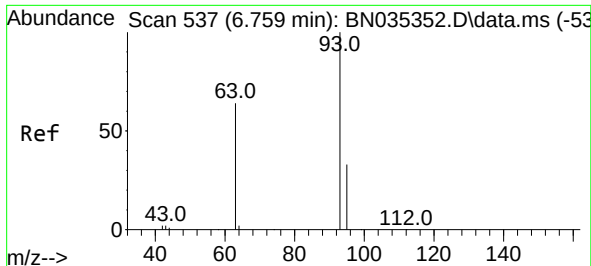
Tgt Ion:112 Resp: 10  
Ion Ratio Lower Upper  
112 100  
64 0.0 39.8 59.8#  
63 140.0 21.0 31.6#



#5  
Phenol-d6  
Concen: 0.008 ng  
RT: 6.484 min Scan# 499  
Delta R.T. -0.007 min  
Lab File: BN035747.D  
Acq: 20 Dec 2024 18:18

Tgt Ion: 99 Resp: 102  
Ion Ratio Lower Upper  
99 100  
42 42.2 11.4 17.2#  
71 39.2 29.3 43.9

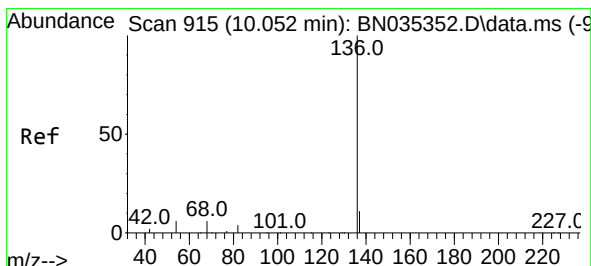
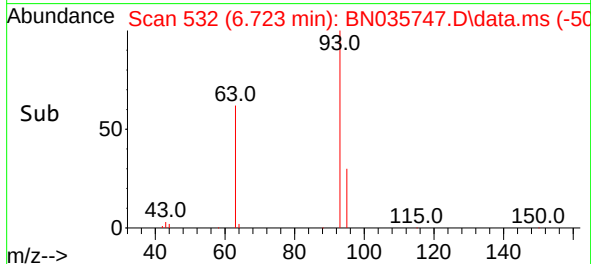
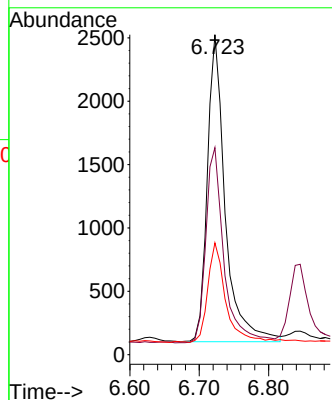
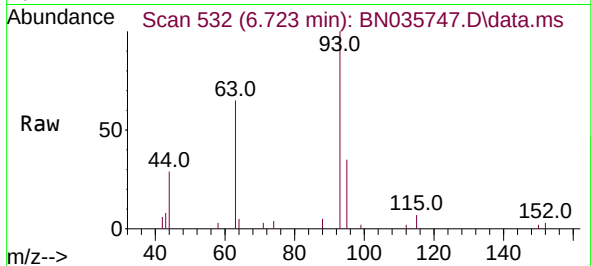




#6  
bis(2-Chloroethyl)ether  
Concen: 0.413 ng  
RT: 6.723 min Scan# 51  
Delta R.T. -0.007 min  
Lab File: BN035747.D  
Acq: 20 Dec 2024 18:18

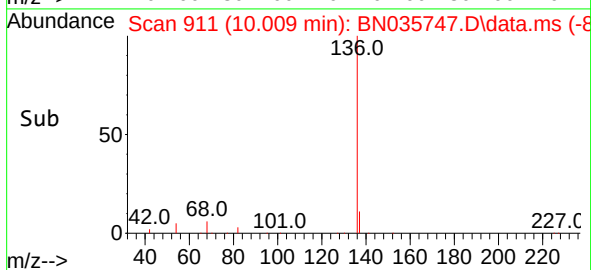
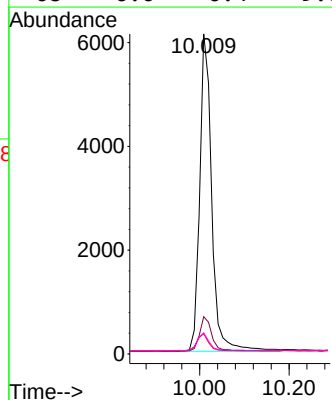
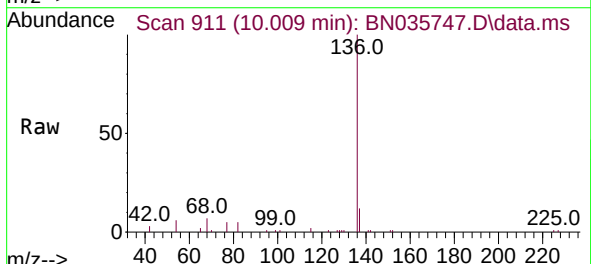
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

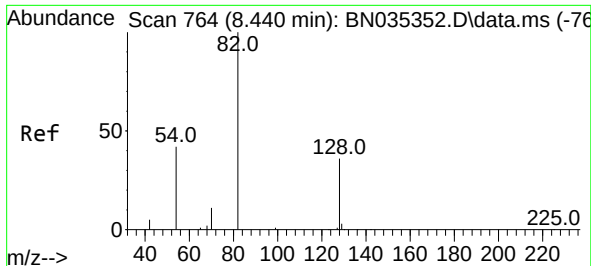
Tgt Ion: 93 Resp: 4332  
Ion Ratio Lower Upper  
93 100  
63 64.4 50.4 75.6  
95 33.6 25.7 38.5



#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.009 min Scan# 911  
Delta R.T. -0.011 min  
Lab File: BN035747.D  
Acq: 20 Dec 2024 18:18

Tgt Ion: 136 Resp: 11402  
Ion Ratio Lower Upper  
136 100  
137 11.7 10.2 15.2  
54 6.3 6.1 9.1  
68 6.6 6.4 9.6

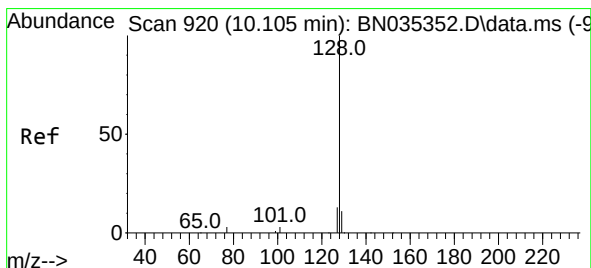
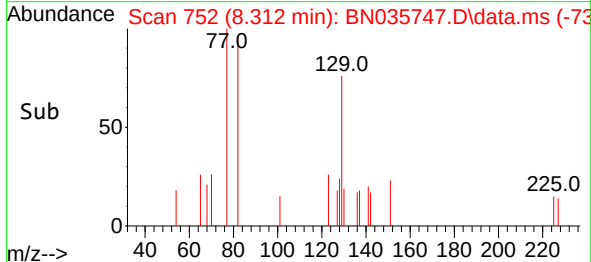
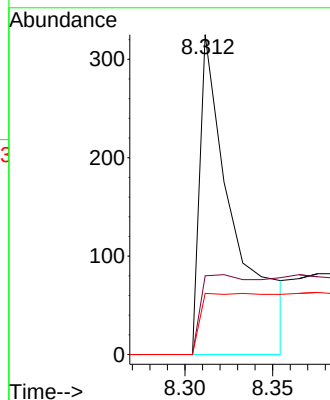
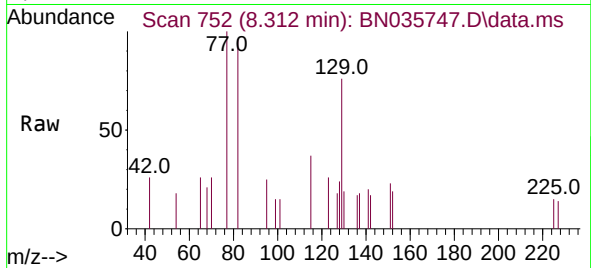




#8  
Nitrobenzene-d5  
Concen: 0.061 ng  
RT: 8.312 min Scan# 714  
Delta R.T. -0.096 min  
Lab File: BN035747.D  
Acq: 20 Dec 2024 18:18

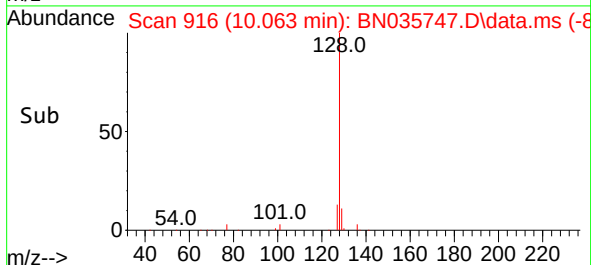
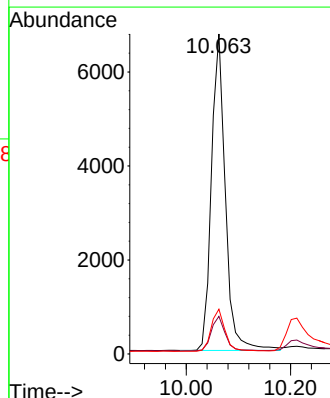
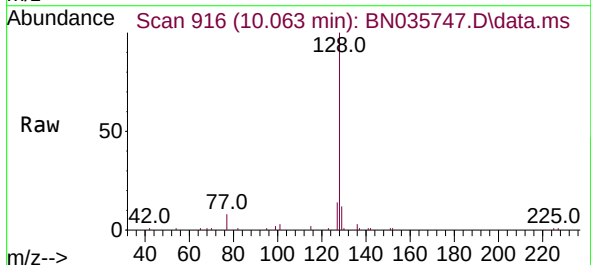
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

Tgt Ion: 82 Resp: 427  
Ion Ratio Lower Upper  
82 100  
128 24.6 33.4 50.0#  
54 19.1 36.7 55.1#

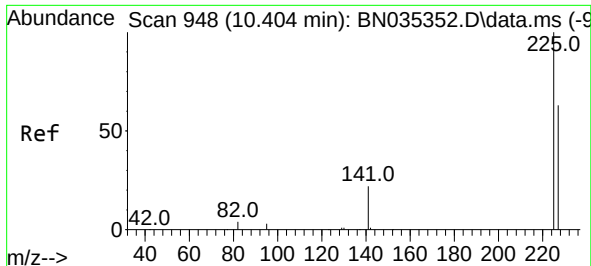


#9  
Naphthalene  
Concen: 0.413 ng  
RT: 10.063 min Scan# 916  
Delta R.T. -0.000 min  
Lab File: BN035747.D  
Acq: 20 Dec 2024 18:18

Tgt Ion: 128 Resp: 12423  
Ion Ratio Lower Upper  
128 100  
129 11.7 9.8 14.6  
127 14.0 11.4 17.2



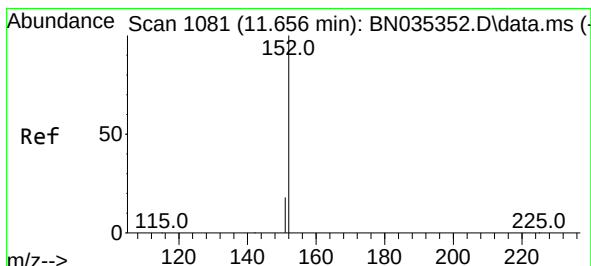
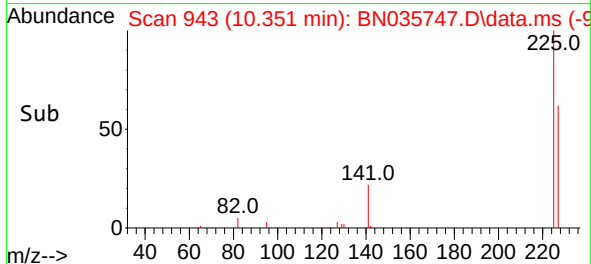
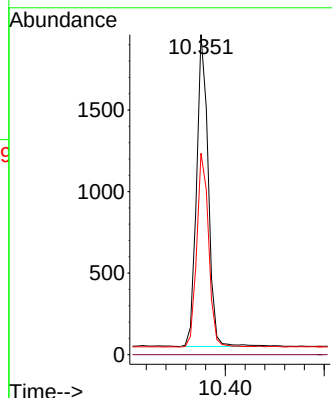
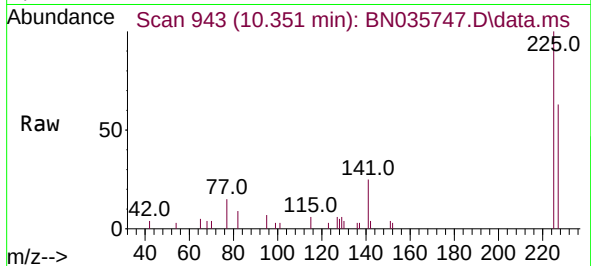




#10  
Hexachlorobutadiene  
Concen: 0.453 ng  
RT: 10.351 min Scan# 94  
Delta R.T. -0.011 min  
Lab File: BN035747.D  
Acq: 20 Dec 2024 18:18

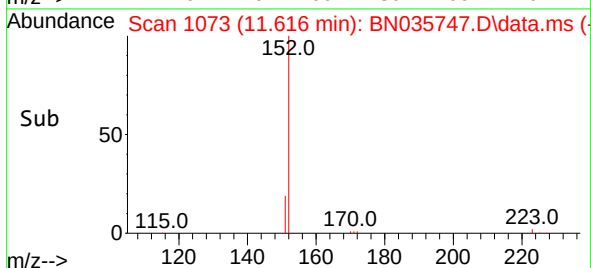
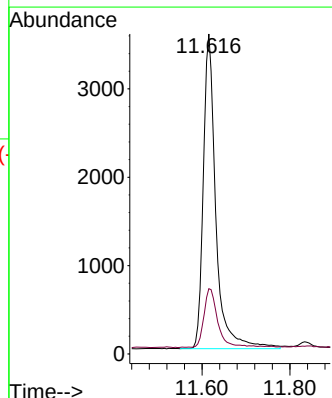
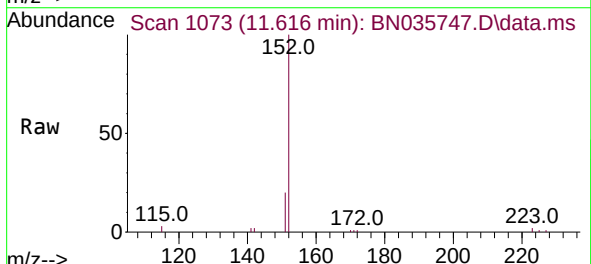
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

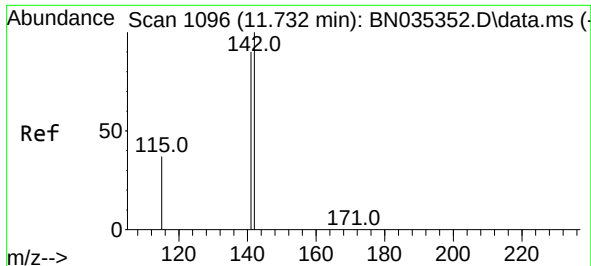
Tgt Ion:225 Resp: 3142  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 63.3 51.3 76.9



#11  
2-Methylnaphthalene-d10  
Concen: 0.395 ng  
RT: 11.616 min Scan# 1073  
Delta R.T. -0.005 min  
Lab File: BN035747.D  
Acq: 20 Dec 2024 18:18

Tgt Ion:152 Resp: 7049  
Ion Ratio Lower Upper  
152 100  
151 20.4 16.6 25.0

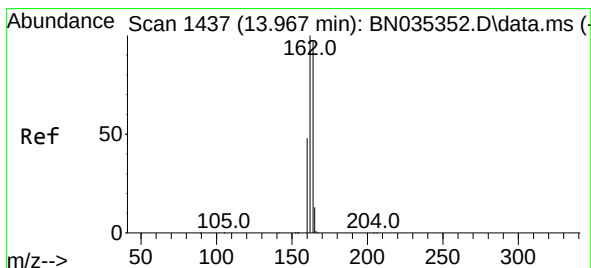
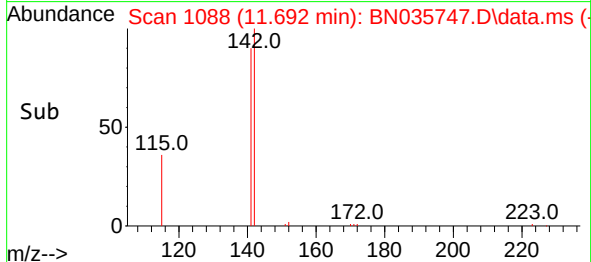
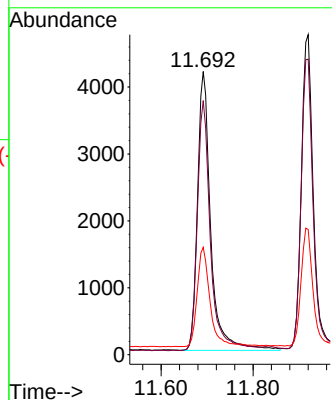
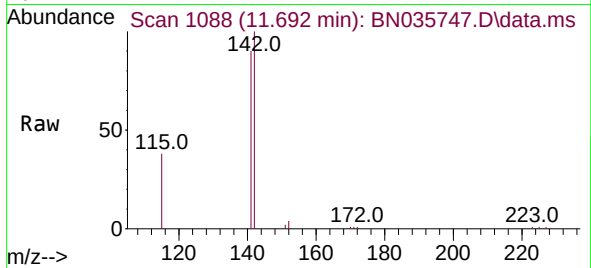




#12  
2-Methylnaphthalene  
Concen: 0.388 ng  
RT: 11.692 min Scan# 1096  
Delta R.T. -0.005 min  
Lab File: BN035747.D  
Acq: 20 Dec 2024 18:18

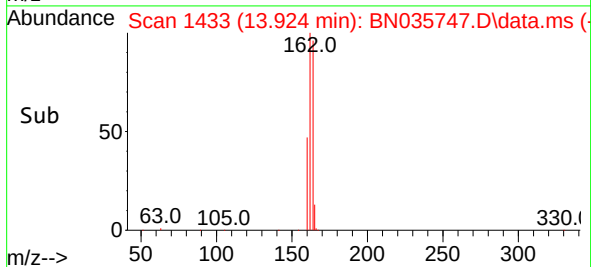
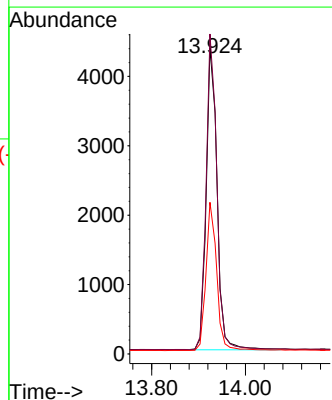
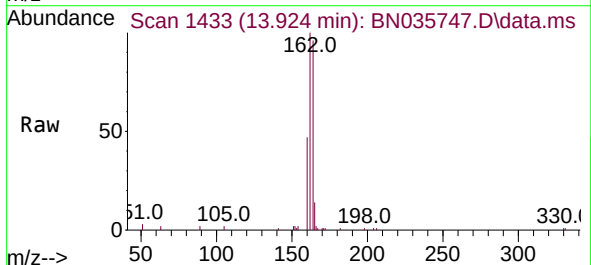
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

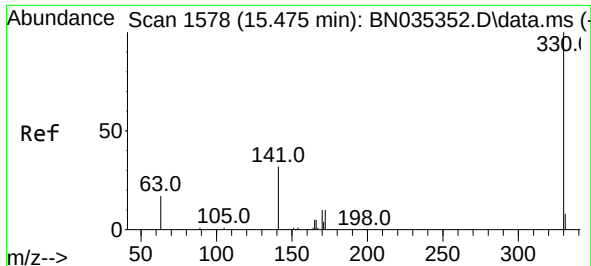
Tgt Ion:142 Resp: 8345  
Ion Ratio Lower Upper  
142 100  
141 89.7 72.2 108.4  
115 37.9 31.4 47.0



#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.924 min Scan# 1433  
Delta R.T. -0.011 min  
Lab File: BN035747.D  
Acq: 20 Dec 2024 18:18

Tgt Ion:164 Resp: 7019  
Ion Ratio Lower Upper  
164 100  
162 104.5 82.2 123.2  
160 49.5 40.1 60.1

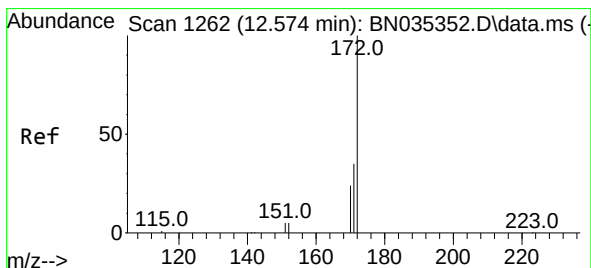
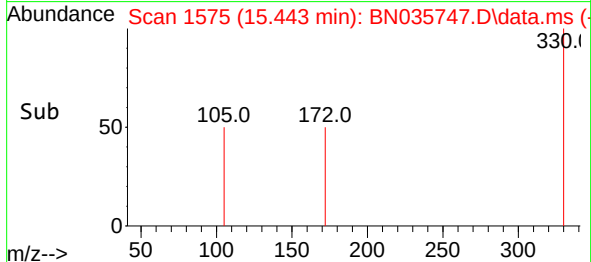
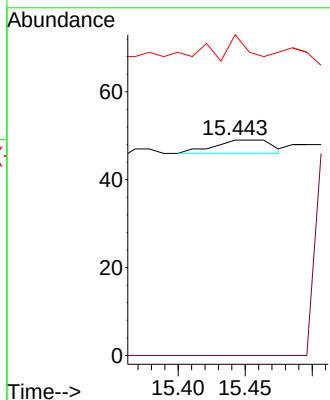
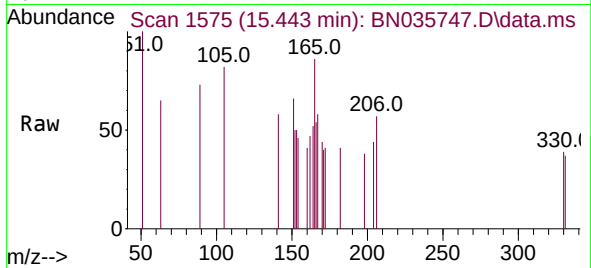




#14  
2,4,6-Tribromophenol  
Concen: 0.002 ng  
RT: 15.443 min Scan# 11  
Delta R.T. -0.011 min  
Lab File: BN035747.D  
Acq: 20 Dec 2024 18:18

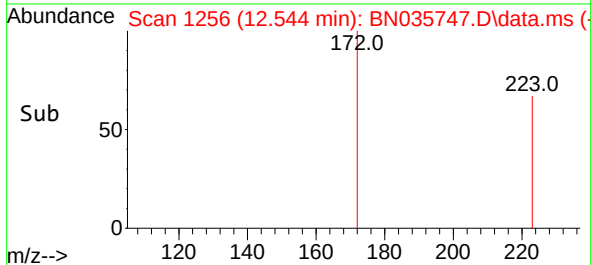
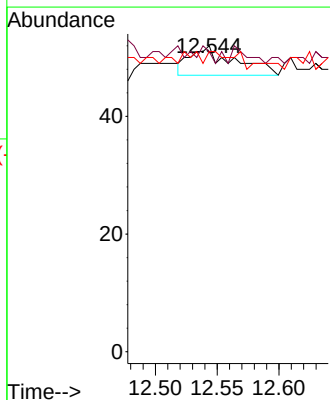
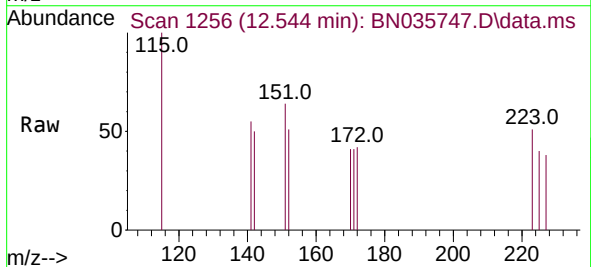
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

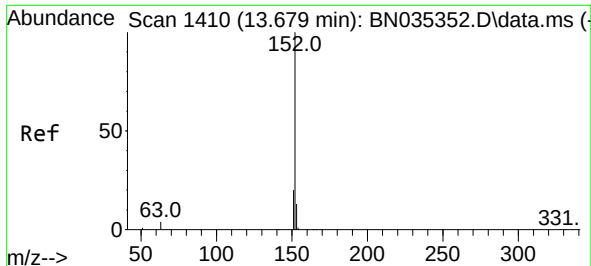
Tgt Ion:330 Resp: 9  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 77.8 26.6 40.0#



#15  
2-Fluorobiphenyl  
Concen: 0.000 ng  
RT: 12.544 min Scan# 1256  
Delta R.T. -0.000 min  
Lab File: BN035747.D  
Acq: 20 Dec 2024 18:18

Tgt Ion:172 Resp: 12  
Ion Ratio Lower Upper  
172 100  
171 98.1 29.0 43.4#  
170 98.1 19.8 29.8#

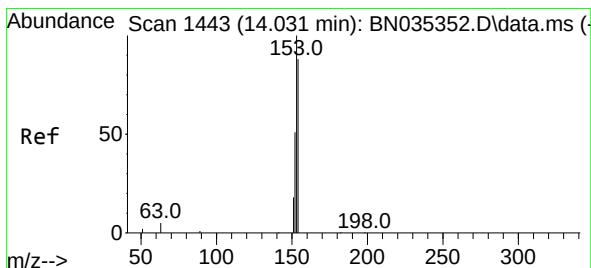
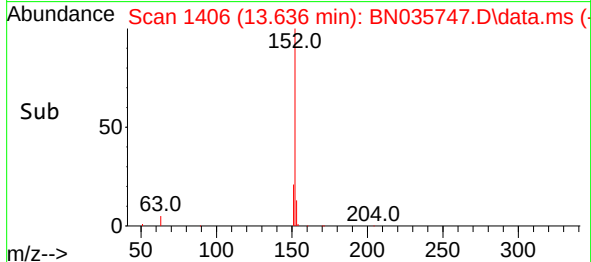
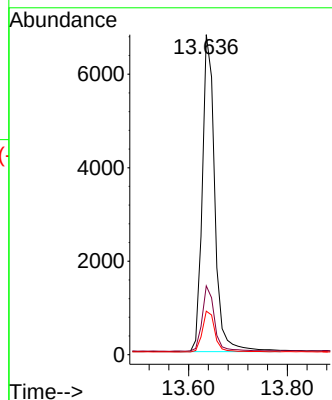
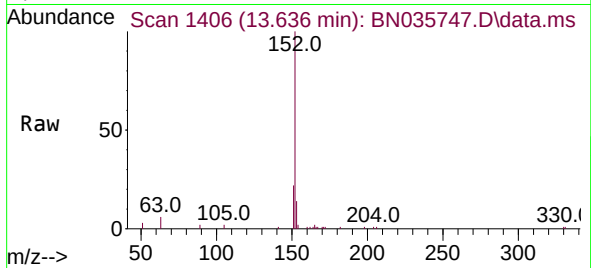




#16  
Acenaphthylene  
Concen: 0.405 ng  
RT: 13.636 min Scan# 1406  
Delta R.T. -0.011 min  
Lab File: BN035747.D  
Acq: 20 Dec 2024 18:18

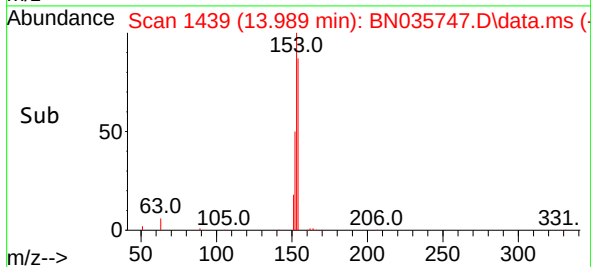
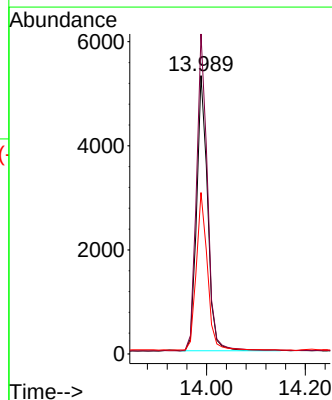
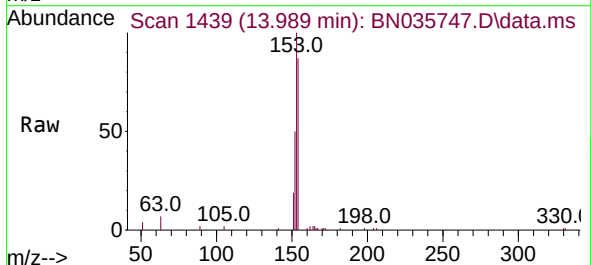
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

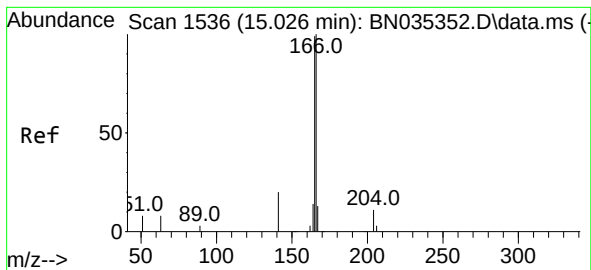
Tgt Ion:152 Resp: 11936  
Ion Ratio Lower Upper  
152 100  
151 20.3 16.2 24.2  
153 13.1 10.4 15.6



#17  
Acenaphthene  
Concen: 0.417 ng  
RT: 13.989 min Scan# 1439  
Delta R.T. -0.011 min  
Lab File: BN035747.D  
Acq: 20 Dec 2024 18:18

Tgt Ion:154 Resp: 8162  
Ion Ratio Lower Upper  
154 100  
153 115.3 92.6 139.0  
152 57.6 49.0 73.6





#18

Fluorene

Concen: 0.368 ng

RT: 14.993 min Scan# 1

Delta R.T. -0.011 min

Lab File: BN035747.D

Acq: 20 Dec 2024 18:18

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC

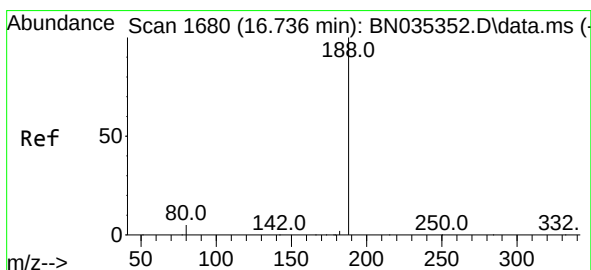
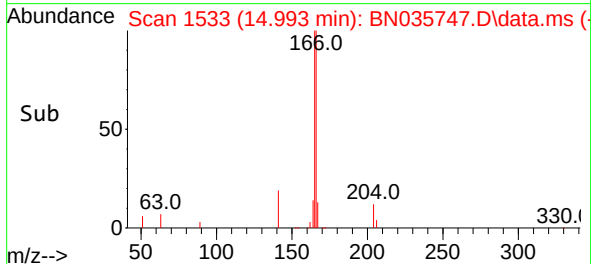
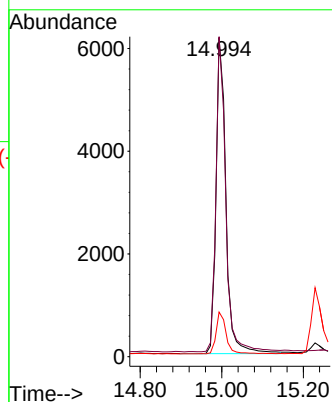
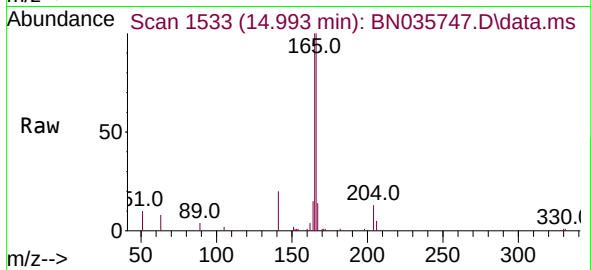
Tgt Ion:166 Resp: 10307

Ion Ratio Lower Upper

166 100

165 98.2 79.7 119.5

167 13.4 10.8 16.2



#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.698 min Scan# 1677

Delta R.T. -0.000 min

Lab File: BN035747.D

Acq: 20 Dec 2024 18:18

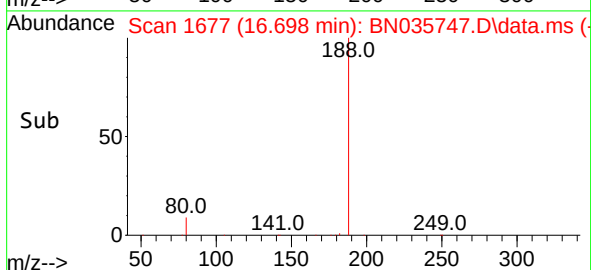
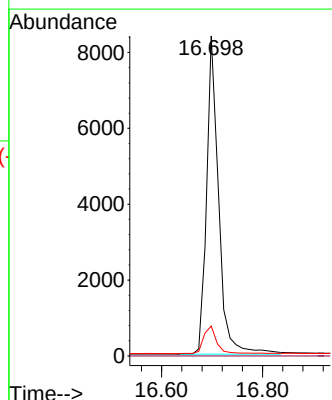
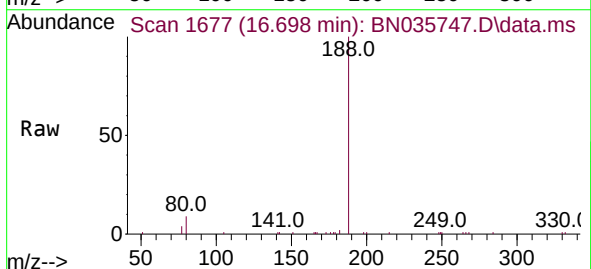
Tgt Ion:188 Resp: 13951

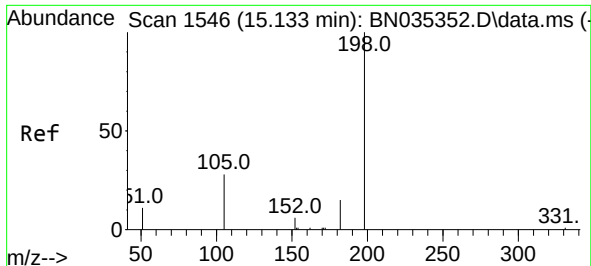
Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.4 4.6 6.8#

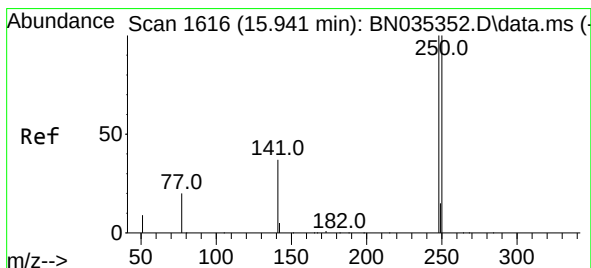
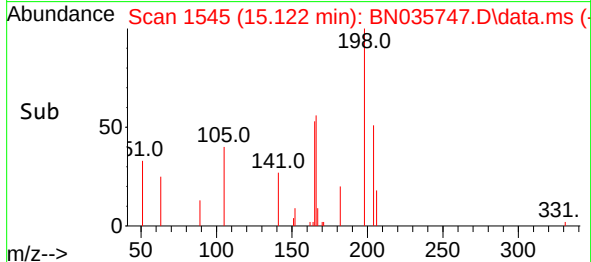
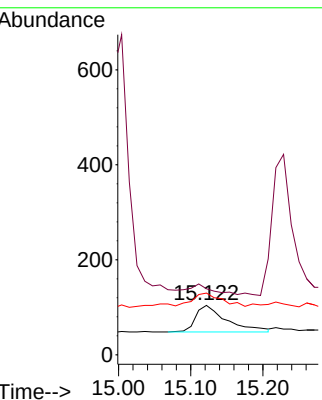
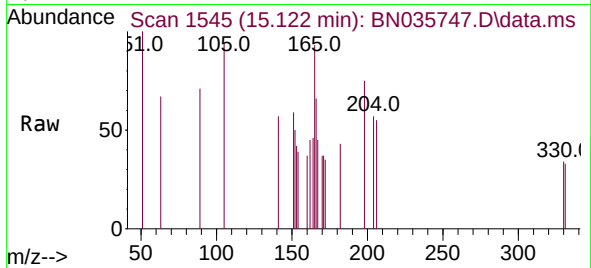




#20  
4,6-Dinitro-2-methylphenol  
Concen: 0.122 ng  
RT: 15.122 min Scan# 1545  
Delta R.T. -0.000 min  
Lab File: BN035747.D  
Acq: 20 Dec 2024 18:18

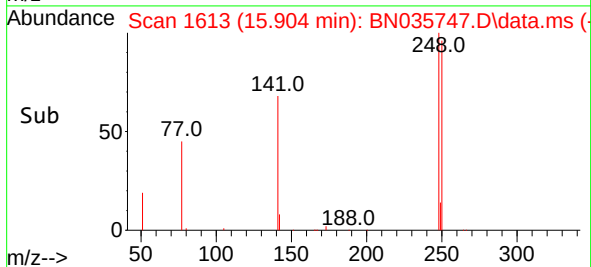
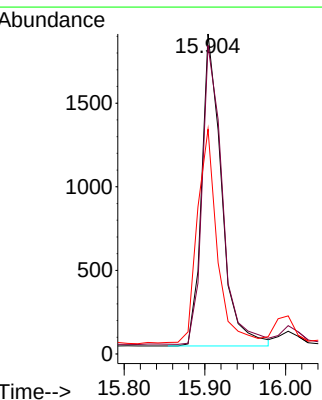
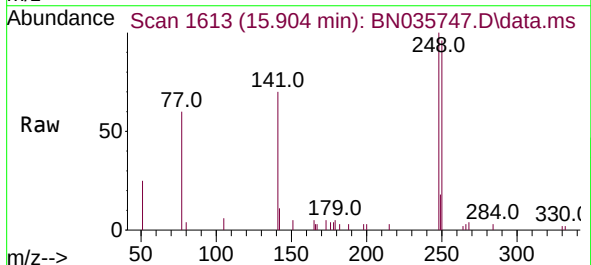
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

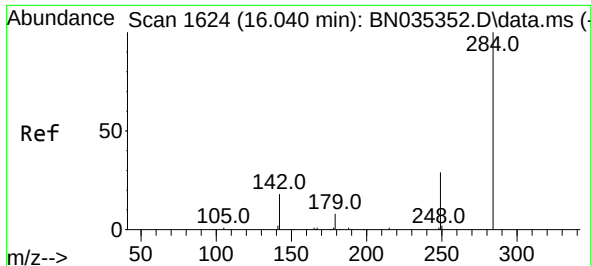
Tgt Ion:198 Resp: 168  
Ion Ratio Lower Upper  
198 100  
51 133.7 46.5 69.7#  
105 125.0 45.3 67.9#



#21  
4-Bromophenyl-phenylether  
Concen: 0.391 ng  
RT: 15.904 min Scan# 1613  
Delta R.T. -0.013 min  
Lab File: BN035747.D  
Acq: 20 Dec 2024 18:18

Tgt Ion:248 Resp: 3188  
Ion Ratio Lower Upper  
248 100  
250 96.4 80.6 120.8  
141 70.3 31.5 47.3#

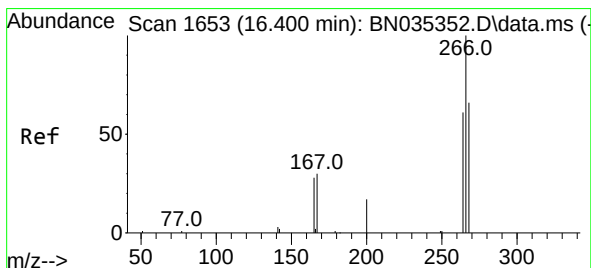
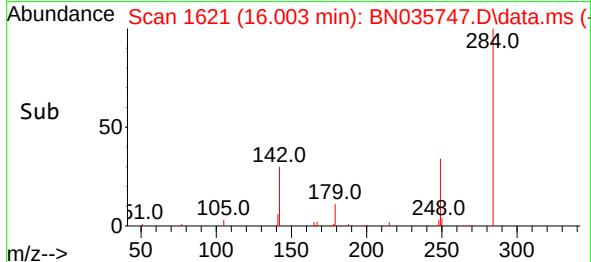
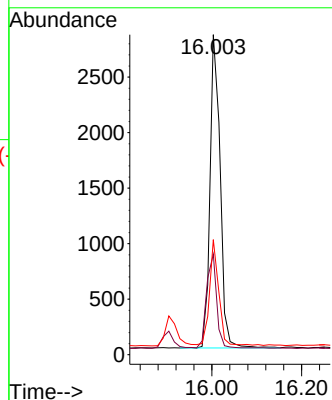
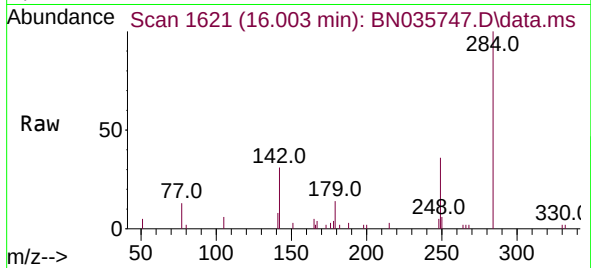




#22  
Hexachlorobenzene  
Concen: 0.460 ng  
RT: 16.003 min Scan# 1621  
Delta R.T. -0.013 min  
Lab File: BN035747.D  
Acq: 20 Dec 2024 18:18

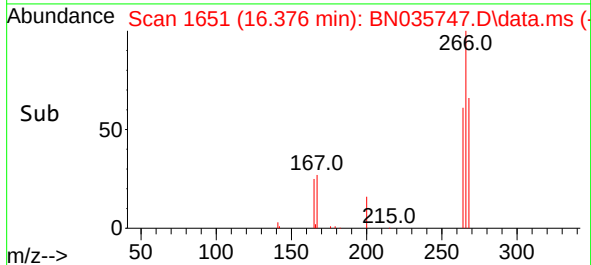
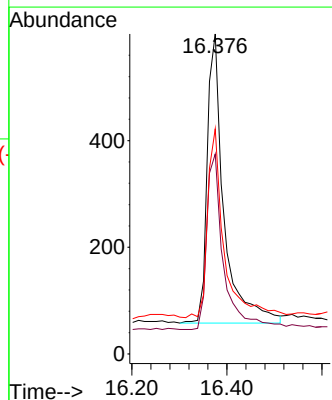
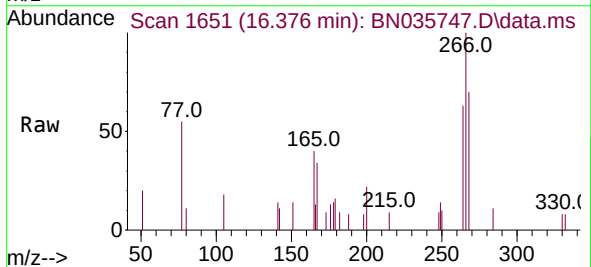
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

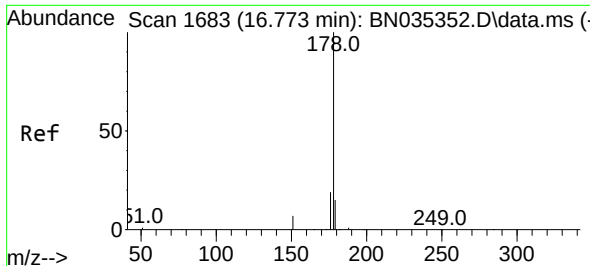
Tgt Ion:284 Resp: 4408  
Ion Ratio Lower Upper  
284 100  
142 29.9 26.7 40.1  
249 30.7 24.6 36.8



#24  
Pentachlorophenol  
Concen: 0.319 ng  
RT: 16.376 min Scan# 1651  
Delta R.T. -0.000 min  
Lab File: BN035747.D  
Acq: 20 Dec 2024 18:18

Tgt Ion:266 Resp: 1329  
Ion Ratio Lower Upper  
266 100  
264 61.8 42.3 63.5  
268 64.7 43.3 64.9

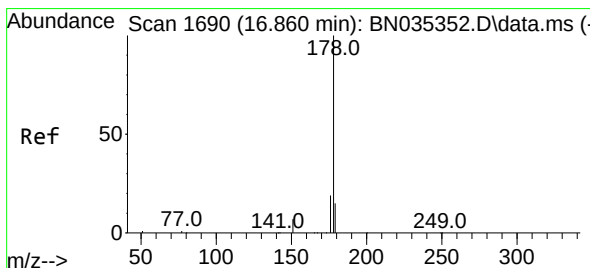
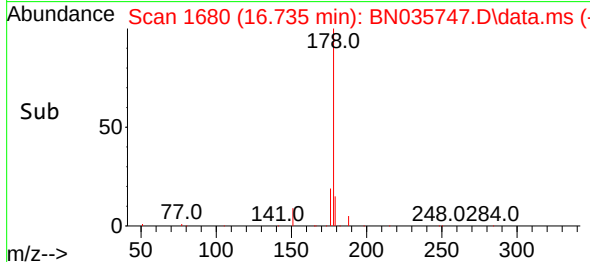
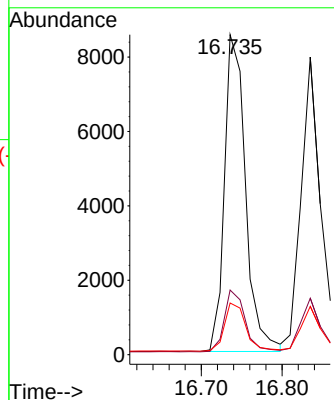
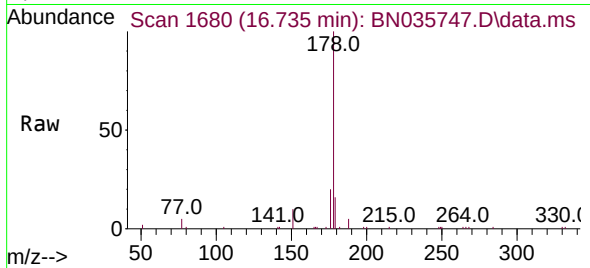




#25  
Phenanthrene  
Concen: 0.403 ng  
RT: 16.735 min Scan# 1680  
Delta R.T. -0.013 min  
Lab File: BN035747.D  
Acq: 20 Dec 2024 18:18

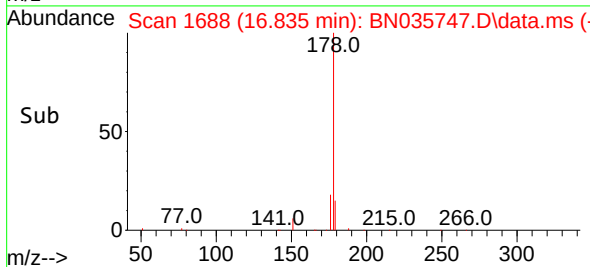
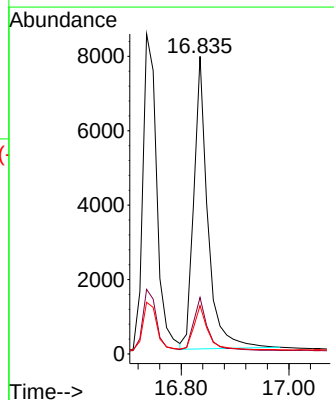
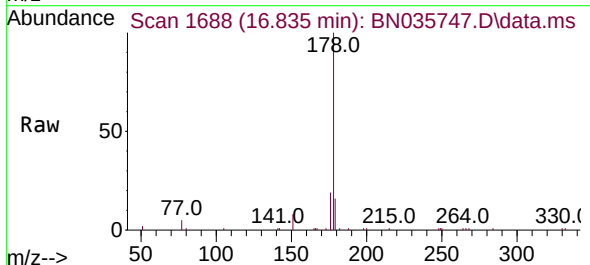
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

Tgt Ion:178 Resp: 15452  
Ion Ratio Lower Upper  
178 100  
176 19.2 15.4 23.2  
179 15.4 12.3 18.5

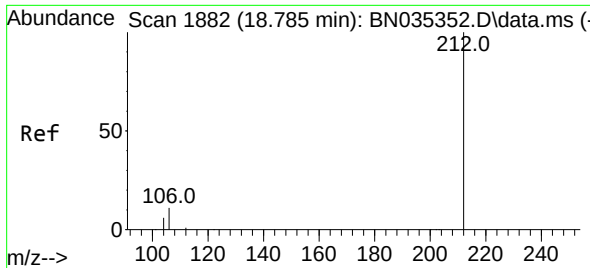


#26  
Anthracene  
Concen: 0.408 ng  
RT: 16.835 min Scan# 1688  
Delta R.T. -0.000 min  
Lab File: BN035747.D  
Acq: 20 Dec 2024 18:18

Tgt Ion:178 Resp: 14156  
Ion Ratio Lower Upper  
178 100  
176 18.4 15.0 22.6  
179 15.5 12.6 18.8



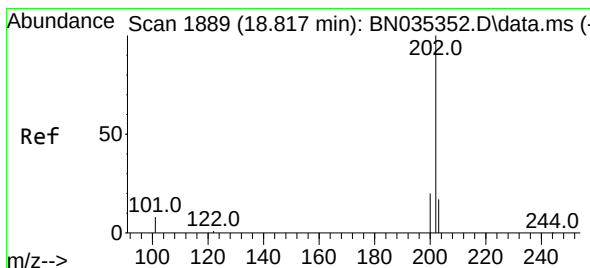
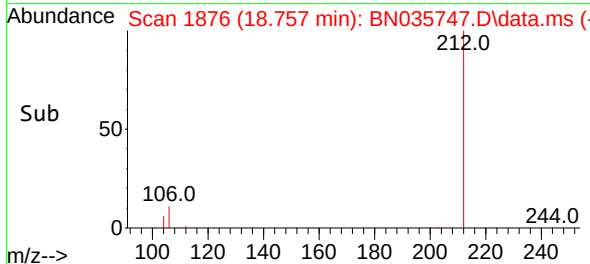
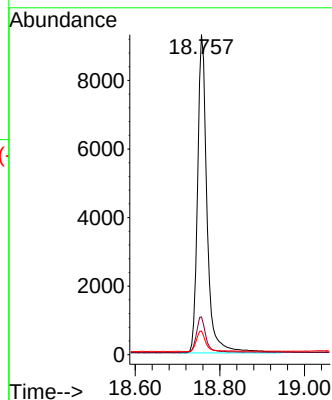
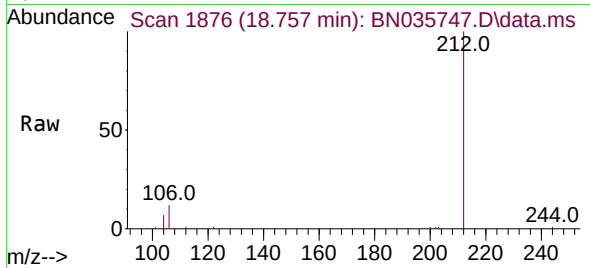




#27  
Fluoranthene-d10  
Concen: 0.365 ng  
RT: 18.757 min Scan# 1876  
Delta R.T. -0.005 min  
Lab File: BN035747.D  
Acq: 20 Dec 2024 18:18

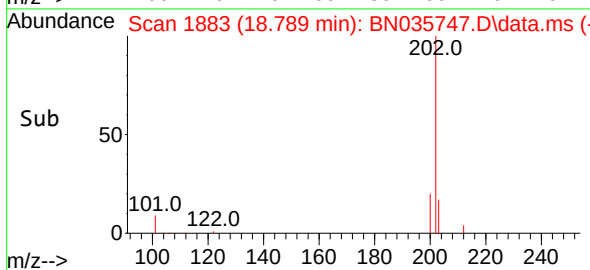
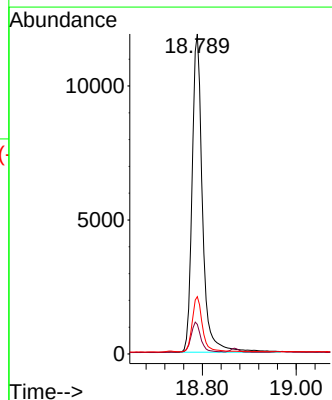
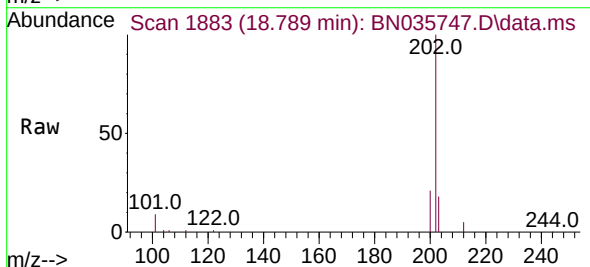
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

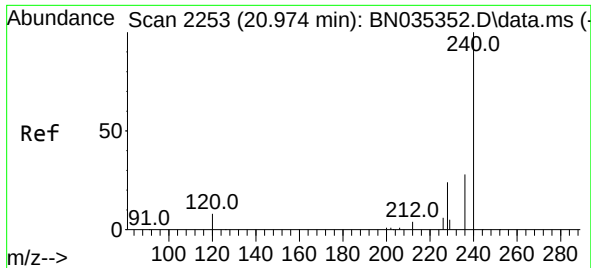
Tgt Ion:212 Resp: 14421  
Ion Ratio Lower Upper  
212 100  
106 11.1 9.2 13.8  
104 6.3 5.3 7.9



#28  
Fluoranthene  
Concen: 0.353 ng  
RT: 18.789 min Scan# 1883  
Delta R.T. -0.000 min  
Lab File: BN035747.D  
Acq: 20 Dec 2024 18:18

Tgt Ion:202 Resp: 18255  
Ion Ratio Lower Upper  
202 100  
101 9.4 7.4 11.0  
203 17.0 13.7 20.5

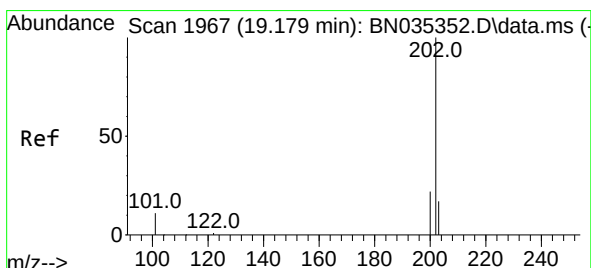
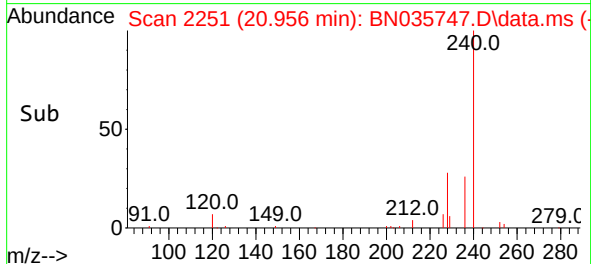
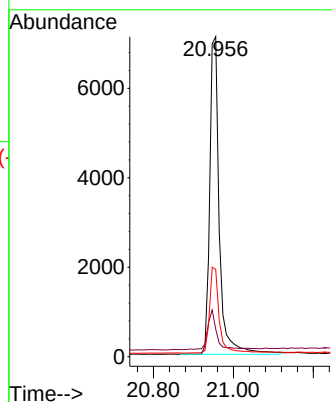
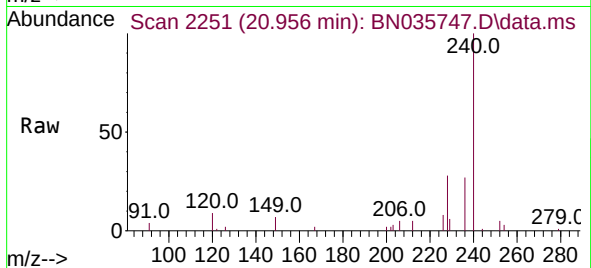




#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 20.956 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: BN035747.D  
Acq: 20 Dec 2024 18:18

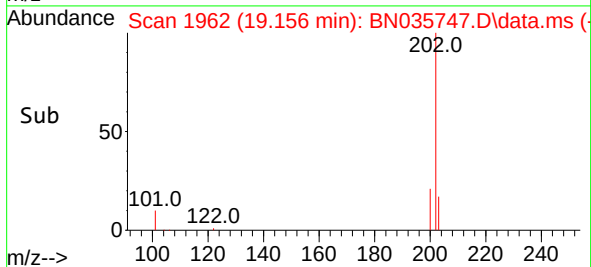
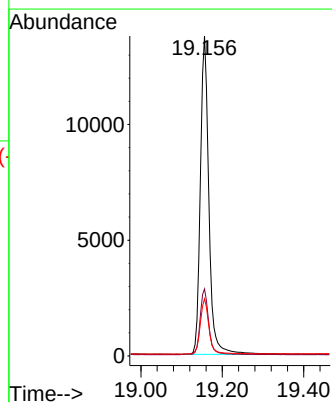
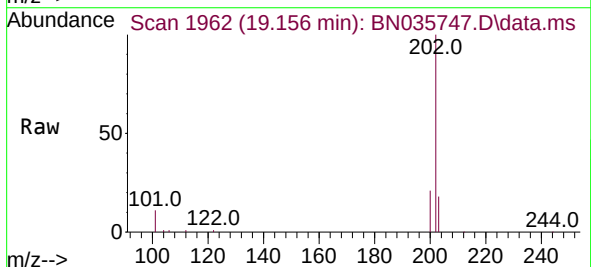
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

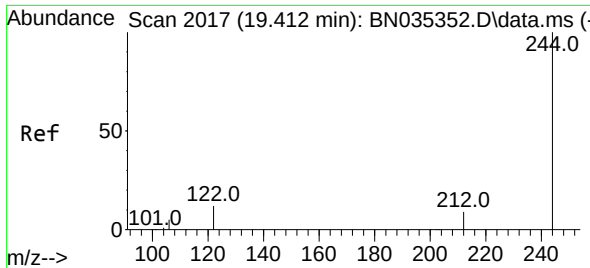
Tgt Ion:240 Resp: 11878  
Ion Ratio Lower Upper  
240 100  
120 8.6 7.9 11.9  
236 27.2 22.9 34.3



#30  
Pyrene  
Concen: 0.453 ng  
RT: 19.156 min Scan# 1962  
Delta R.T. -0.005 min  
Lab File: BN035747.D  
Acq: 20 Dec 2024 18:18

Tgt Ion:202 Resp: 19874  
Ion Ratio Lower Upper  
202 100  
200 21.0 17.0 25.4  
203 17.9 14.3 21.5

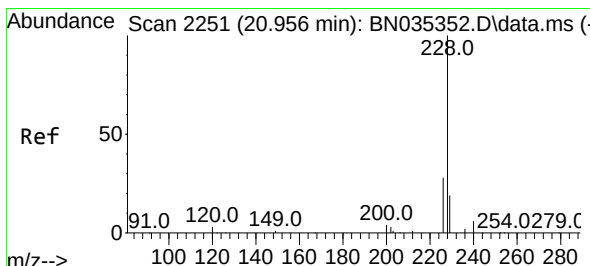
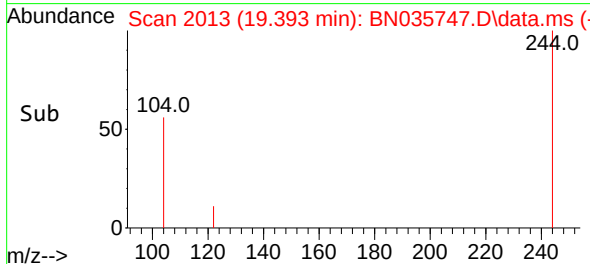
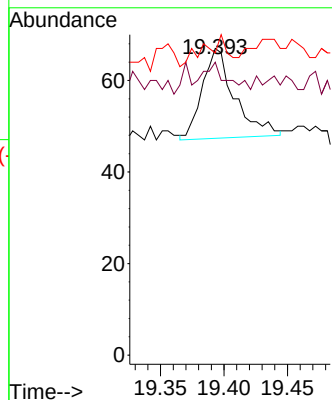
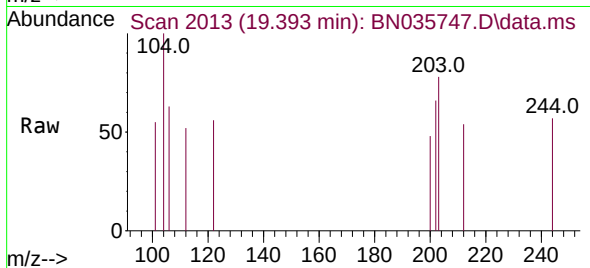




#31  
 Terphenyl-d14  
 Concen: 0.001 ng  
 RT: 19.393 min Scan# 2017  
 Delta R.T. 0.004 min  
 Lab File: BN035747.D  
 Acq: 20 Dec 2024 18:18

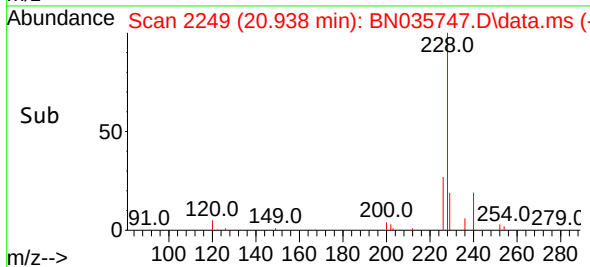
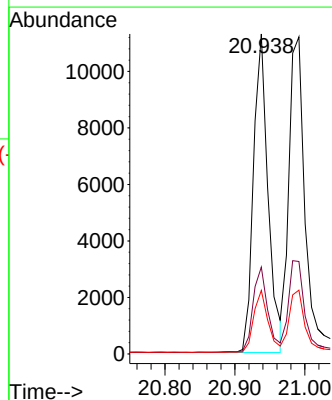
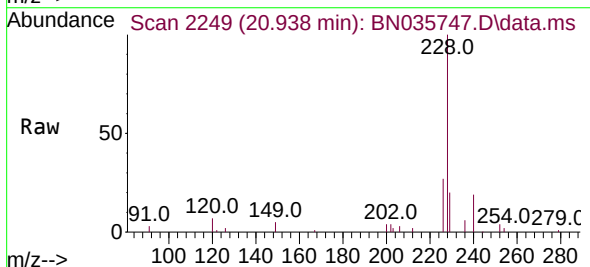
Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4EC

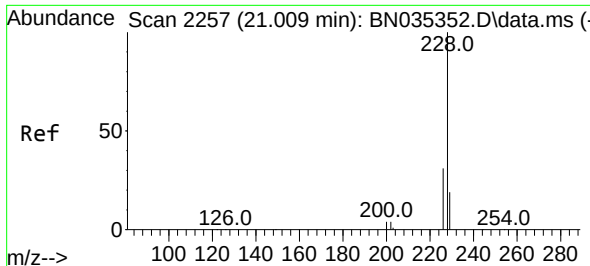
Tgt Ion:244 Resp: 35  
 Ion Ratio Lower Upper  
 244 100  
 212 95.5 8.1 12.1#  
 122 98.5 10.3 15.5#



#32  
 Benzo(a)anthracene  
 Concen: 0.394 ng  
 RT: 20.938 min Scan# 2249  
 Delta R.T. -0.000 min  
 Lab File: BN035747.D  
 Acq: 20 Dec 2024 18:18

Tgt Ion:228 Resp: 16354  
 Ion Ratio Lower Upper  
 228 100  
 226 27.2 22.5 33.7  
 229 19.9 15.8 23.8





#33

Chrysene

Concen: 0.428 ng

RT: 20.991 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035747.D

Acq: 20 Dec 2024 18:18

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC

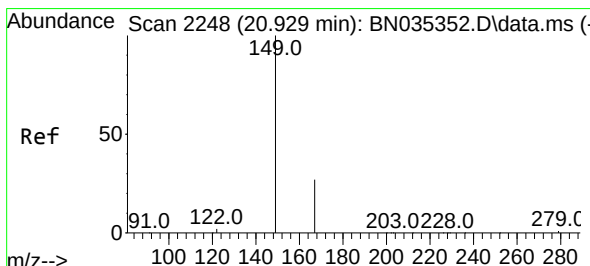
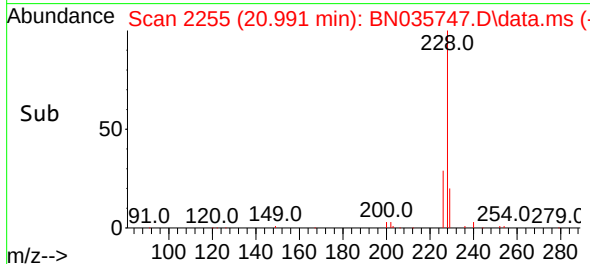
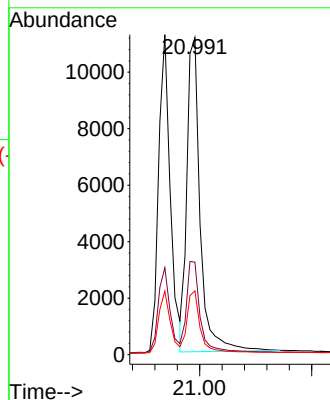
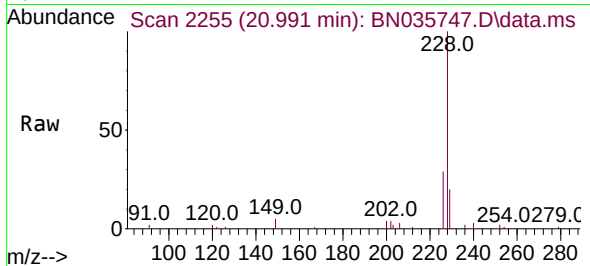
Tgt Ion:228 Resp: 18340

Ion Ratio Lower Upper

228 100

226 29.2 24.6 37.0

229 20.1 15.9 23.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.456 ng

RT: 20.911 min Scan# 2246

Delta R.T. -0.000 min

Lab File: BN035747.D

Acq: 20 Dec 2024 18:18

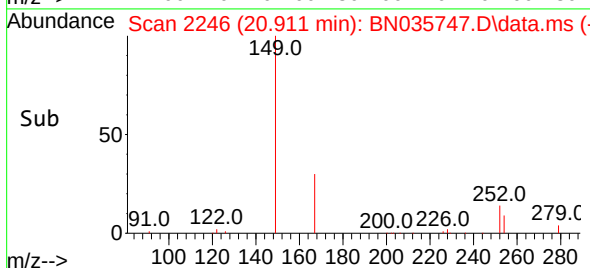
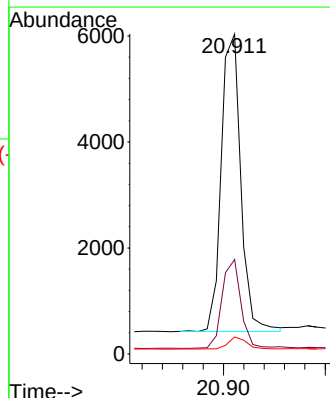
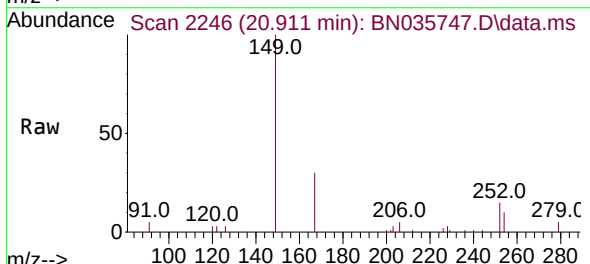
Tgt Ion:149 Resp: 7490

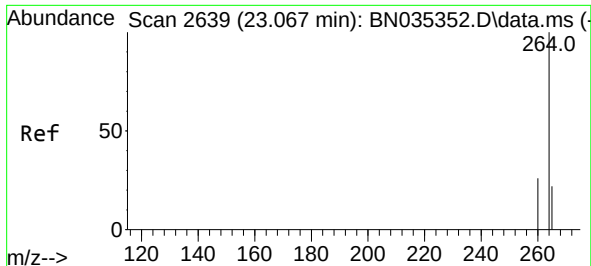
Ion Ratio Lower Upper

149 100

167 29.2 22.2 33.4

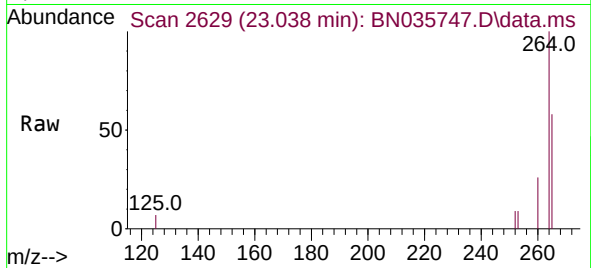
279 3.7 2.7 4.1



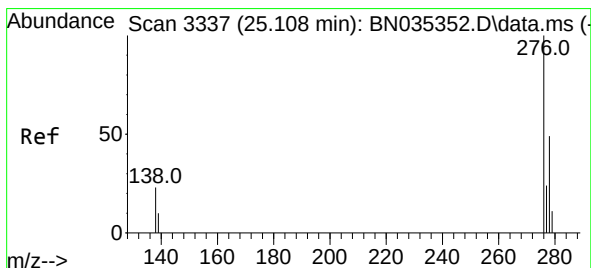
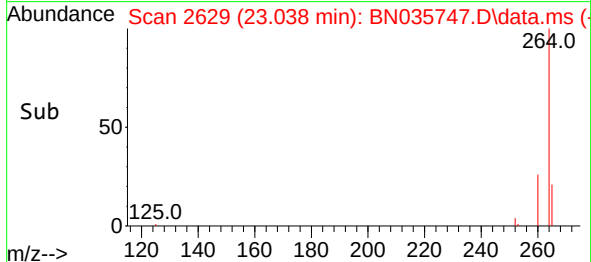
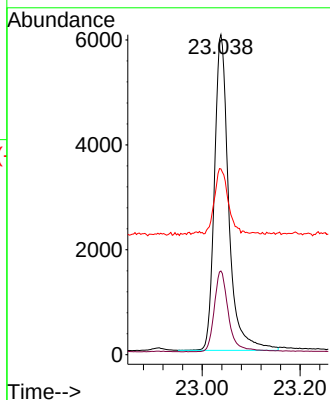


#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.038 min Scan# 2  
Delta R.T. -0.003 min  
Lab File: BN035747.D  
Acq: 20 Dec 2024 18:18

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

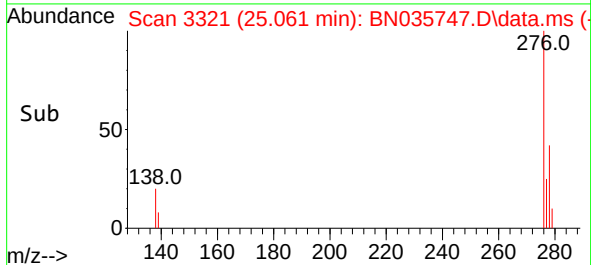
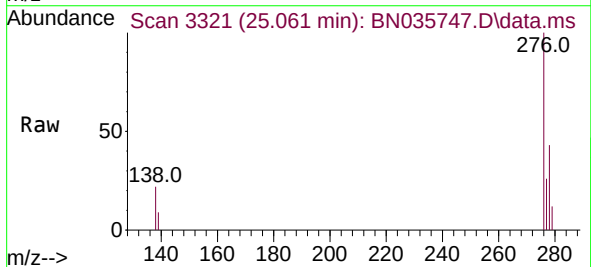
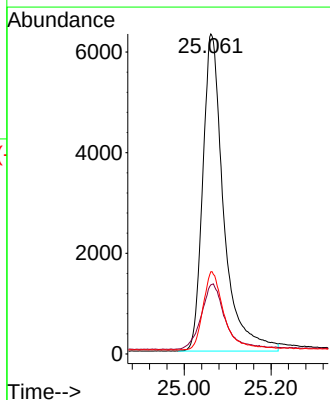


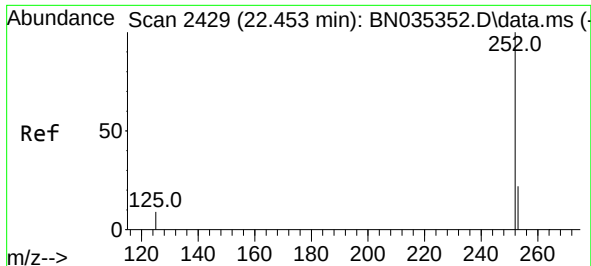
Tgt Ion:264 Resp: 12200  
Ion Ratio Lower Upper  
264 100  
260 26.2 21.4 32.2  
265 58.1 40.2 60.4



#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.442 ng  
RT: 25.061 min Scan# 3321  
Delta R.T. -0.006 min  
Lab File: BN035747.D  
Acq: 20 Dec 2024 18:18

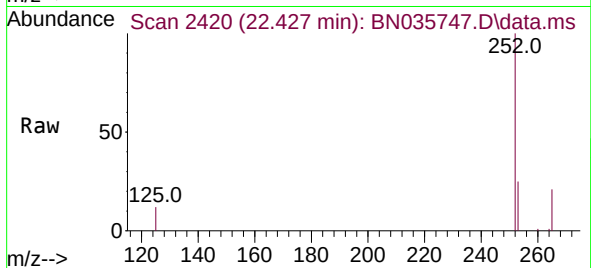
Tgt Ion:276 Resp: 21102  
Ion Ratio Lower Upper  
276 100  
138 23.7 19.4 29.0  
277 25.2 19.8 29.6



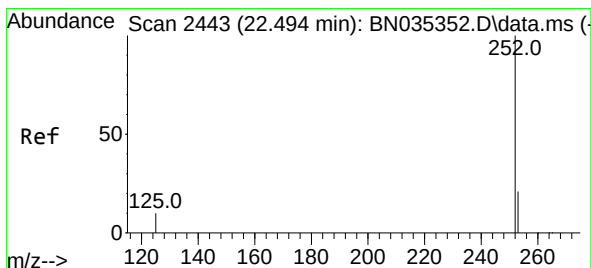
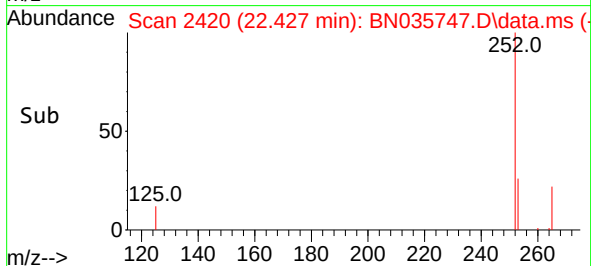
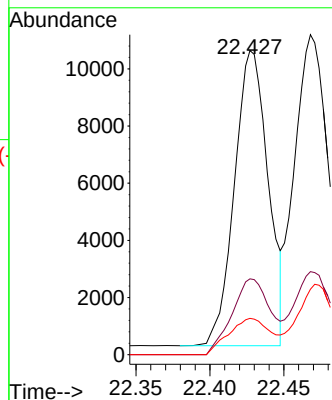


#37  
Benzo(b)fluoranthene  
Concen: 0.493 ng  
RT: 22.427 min Scan# 2420  
Delta R.T. -0.003 min  
Lab File: BN035747.D  
Acq: 20 Dec 2024 18:18

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

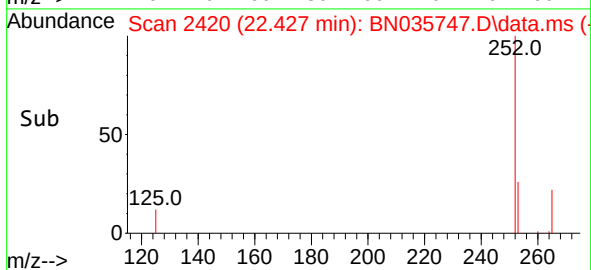
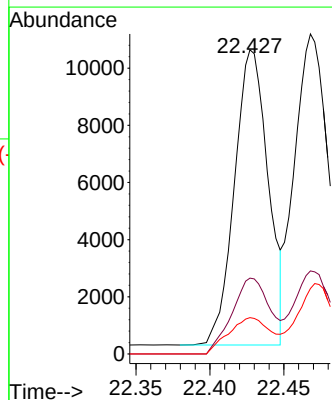
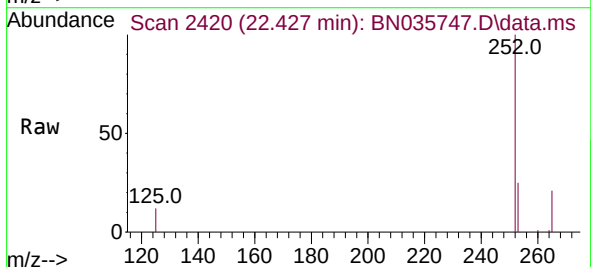


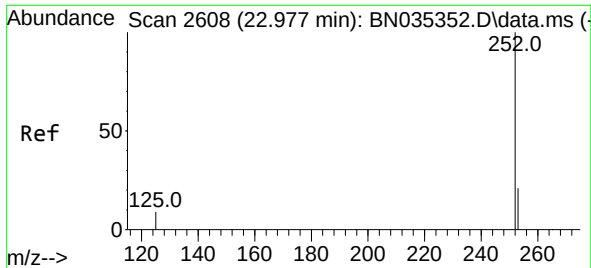
Tgt Ion:252 Resp: 21982  
Ion Ratio Lower Upper  
252 100  
253 25.0 19.6 29.4  
125 12.0 9.6 14.4



#38  
Benzo(k)fluoranthene  
Concen: 0.500 ng  
RT: 22.427 min Scan# 2420  
Delta R.T. -0.044 min  
Lab File: BN035747.D  
Acq: 20 Dec 2024 18:18

Tgt Ion:252 Resp: 21982  
Ion Ratio Lower Upper  
252 100  
253 25.0 19.5 29.3  
125 12.0 10.2 15.4

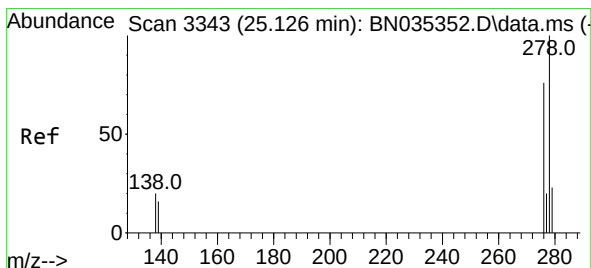
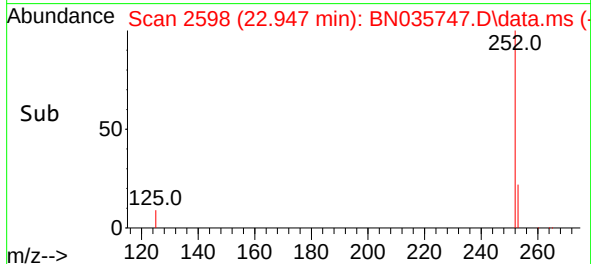
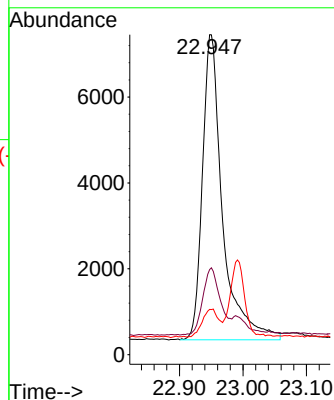
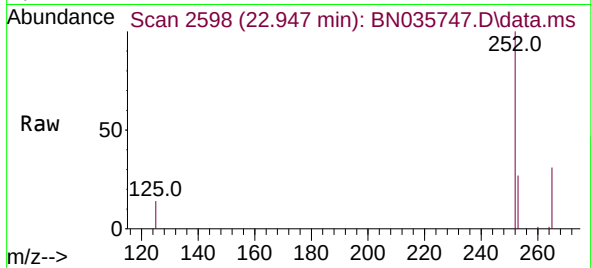




#39  
Benzo(a)pyrene  
Concen: 0.425 ng  
RT: 22.947 min Scan# 21  
Delta R.T. -0.003 min  
Lab File: BN035747.D  
Acq: 20 Dec 2024 18:18

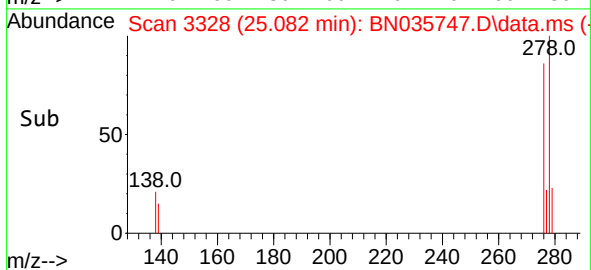
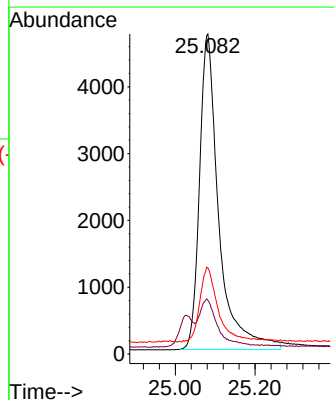
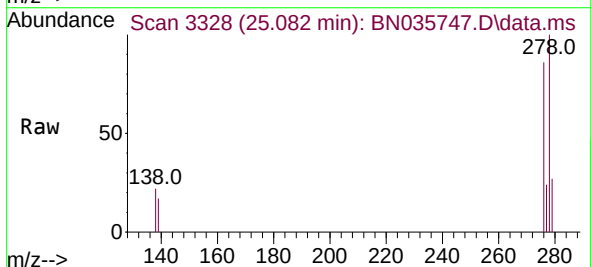
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

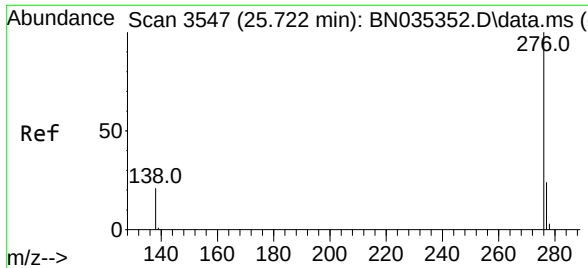
Tgt Ion:252 Resp: 15636  
Ion Ratio Lower Upper  
252 100  
253 26.6 20.2 30.4  
125 14.2 10.9 16.3



#40  
Dibenzo(a,h)anthracene  
Concen: 0.421 ng  
RT: 25.082 min Scan# 3328  
Delta R.T. -0.000 min  
Lab File: BN035747.D  
Acq: 20 Dec 2024 18:18

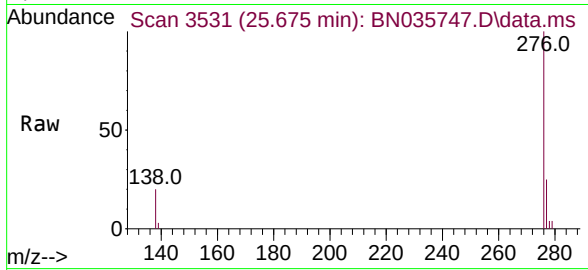
Tgt Ion:278 Resp: 15847  
Ion Ratio Lower Upper  
278 100  
139 16.8 14.2 21.4  
279 26.9 20.5 30.7



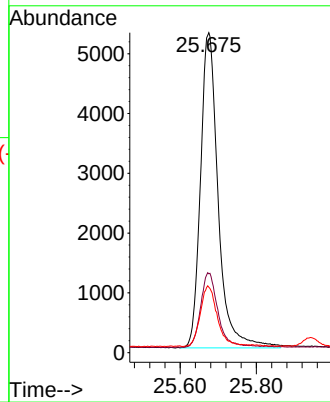
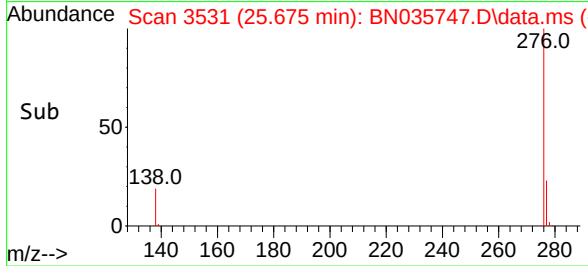


#41  
Benzo(g,h,i)perylene  
Concen: 0.432 ng  
RT: 25.675 min Scan# 31  
Delta R.T. -0.003 min  
Lab File: BN035747.D  
Acq: 20 Dec 2024 18:18

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 276   | Resp: | 16995 |
| Ion      | Ratio | Lower | Upper |
| 276      | 100   |       |       |
| 277      | 24.6  | 19.9  | 29.9  |
| 138      | 20.4  | 17.8  | 26.8  |





Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN121924\  
 Data File : BN035749.D  
 Acq On : 20 Dec 2024 19:33  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 40 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4

Quant Time: Dec 21 01:43:03 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Dec 19 23:06:19 2024  
 Response via : Initial Calibration

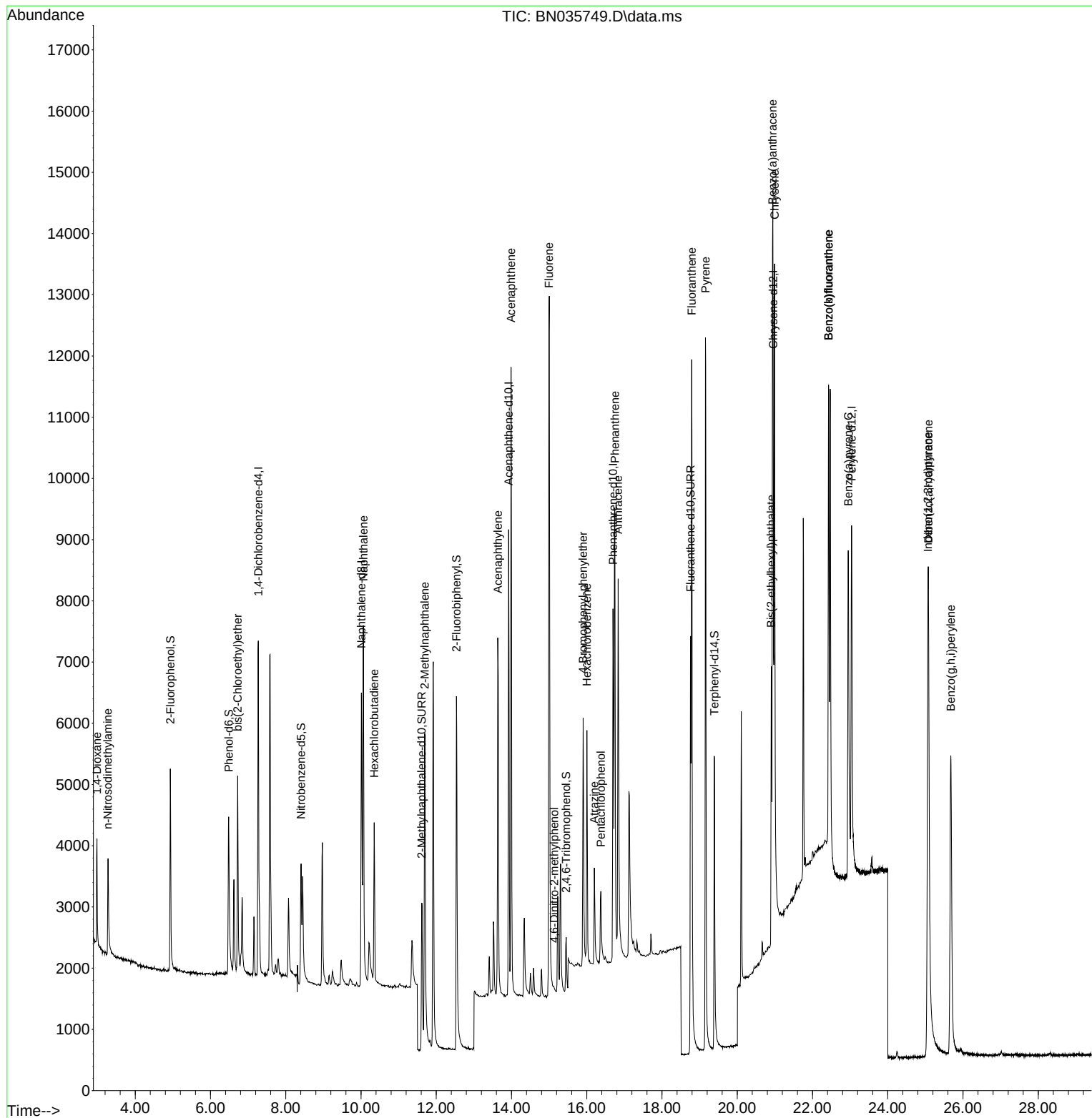
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.272  | 152  | 2885     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.009 | 136  | 7460     | 0.400 | ng    | -0.01    |
| 13) Acenaphthene-d10          | 13.925 | 164  | 4592     | 0.400 | ng    | -0.01    |
| 19) Phenanthrene-d10          | 16.698 | 188  | 9182     | 0.400 | ng    | # 0.00   |
| 29) Chrysene-d12              | 20.956 | 240  | 7719     | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.038 | 264  | 7943     | 0.400 | ng    | # 0.00   |
|                               |        |      |          |       |       |          |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 4.932  | 112  | 2946     | 0.408 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.484  | 99   | 3398     | 0.391 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.408  | 82   | 2510     | 0.551 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.616 | 152  | 4637     | 0.397 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.453 | 330  | 1079     | 0.331 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.539 | 172  | 7163     | 0.413 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 18.761 | 212  | 9858     | 0.379 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.393 | 244  | 6880     | 0.452 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| Target Compounds              |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 2.982  | 88   | 1284     | 0.466 | ng    | 96       |
| 3) n-Nitrosodimethylamine     | 3.271  | 42   | 1037     | 0.451 | ng    | # 96     |
| 6) bis(2-Chloroethyl)ether    | 6.723  | 93   | 2854     | 0.391 | ng    | 99       |
| 9) Naphthalene                | 10.063 | 128  | 8115     | 0.412 | ng    | 99       |
| 10) Hexachlorobutadiene       | 10.351 | 225  | 2104     | 0.464 | ng    | # 98     |
| 12) 2-Methylnaphthalene       | 11.697 | 142  | 5318     | 0.378 | ng    | 99       |
| 16) Acenaphthylene            | 13.636 | 152  | 7458     | 0.387 | ng    | 100      |
| 17) Acenaphthene              | 13.989 | 154  | 5179     | 0.405 | ng    | 99       |
| 18) Fluorene                  | 14.994 | 166  | 6721     | 0.367 | ng    | 100      |
| 20) 4,6-Dinitro-2-methylph... | 15.133 | 198  | 99       | 0.110 | ng    | # 1      |
| 21) 4-Bromophenyl-phenylether | 15.904 | 248  | 2111     | 0.393 | ng    | # 80     |
| 22) Hexachlorobenzene         | 16.003 | 284  | 3074     | 0.487 | ng    | 96       |
| 23) Atrazine                  | 16.202 | 200  | 1584     | 0.414 | ng    | 97       |
| 24) Pentachlorophenol         | 16.376 | 266  | 1014     | 0.370 | ng    | 87       |
| 25) Phenanthrene              | 16.748 | 178  | 9861     | 0.391 | ng    | 100      |
| 26) Anthracene                | 16.835 | 178  | 8624     | 0.378 | ng    | 99       |
| 28) Fluoranthene              | 18.789 | 202  | 12002    | 0.353 | ng    | 100      |
| 30) Pyrene                    | 19.156 | 202  | 12468    | 0.438 | ng    | 99       |
| 32) Benzo(a)anthracene        | 20.938 | 228  | 9472     | 0.351 | ng    | 99       |
| 33) Chrysene                  | 20.992 | 228  | 11952    | 0.429 | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 20.902 | 149  | 4632     | 0.434 | ng    | # 98     |
| 36) Indeno(1,2,3-cd)pyrene    | 25.067 | 276  | 12531    | 0.404 | ng    | 96       |
| 37) Benzo(b)fluoranthene      | 22.427 | 252  | 13708    | 0.472 | ng    | 95       |
| 38) Benzo(k)fluoranthene      | 22.427 | 252  | 13708    | 0.479 | ng    | 96       |
| 39) Benzo(a)pyrene            | 22.950 | 252  | 9304     | 0.389 | ng    | # 91     |
| 40) Dibenzo(a,h)anthracene    | 25.082 | 278  | 9530     | 0.389 | ng    | 95       |
| 41) Benzo(g,h,i)perylene      | 25.675 | 276  | 11213    | 0.438 | ng    | 99       |
| -----                         |        |      |          |       |       |          |

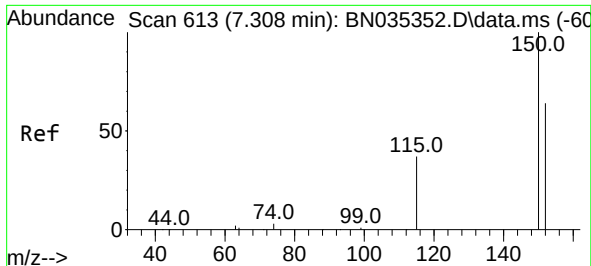
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN121924\  
Data File : BN035749.D  
Acq On : 20 Dec 2024 19:33  
Operator : RC/JU  
Sample : SSTDCCC0.4  
Misc :  
ALS Vial : 40 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

Quant Time: Dec 21 01:43:03 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Dec 19 23:06:19 2024  
Response via : Initial Calibration

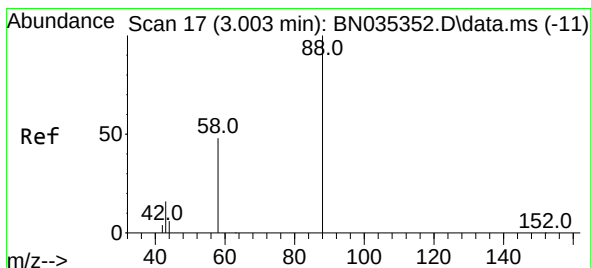
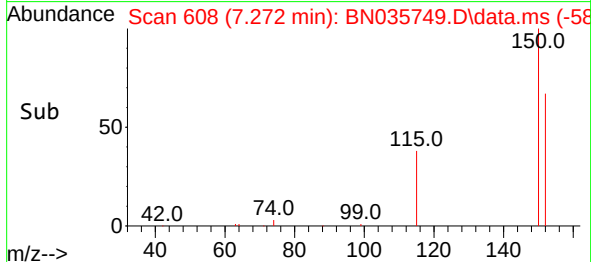
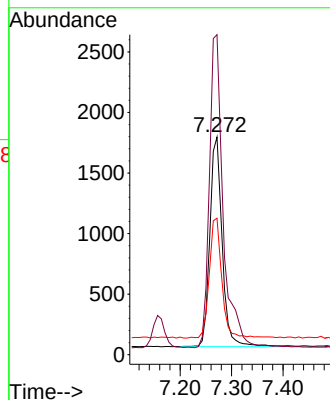
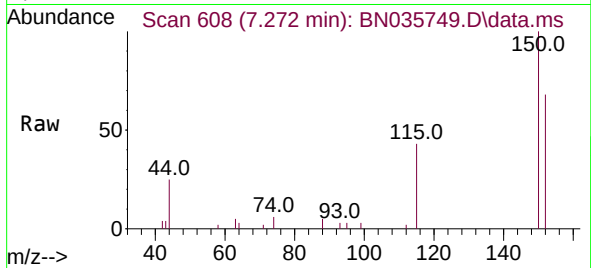




#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.272 min Scan# 60  
Delta R.T. -0.000 min  
Lab File: BN035749.D  
Acq: 20 Dec 2024 19:33

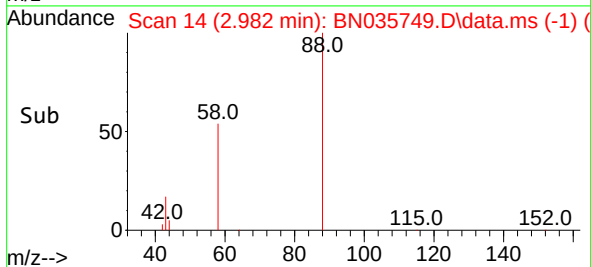
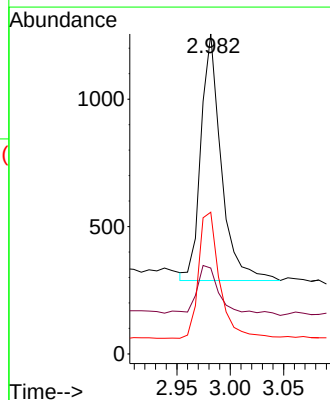
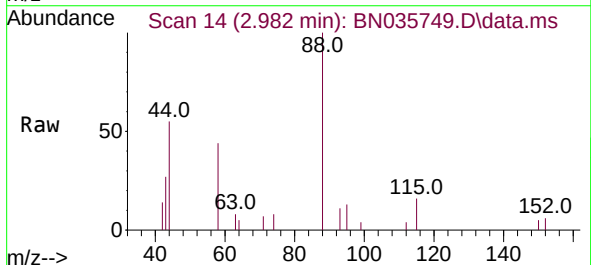
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

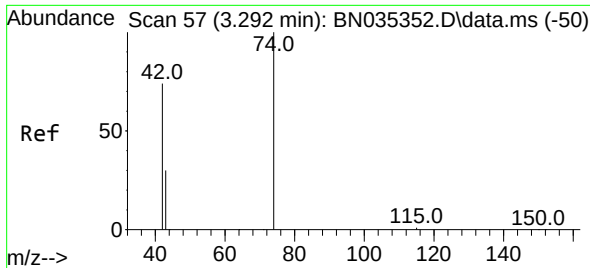
Tgt Ion:152 Resp: 2885  
Ion Ratio Lower Upper  
152 100  
150 147.0 124.0 186.0  
115 62.7 49.6 74.4



#2  
1,4-Dioxane  
Concen: 0.466 ng  
RT: 2.982 min Scan# 14  
Delta R.T. -0.000 min  
Lab File: BN035749.D  
Acq: 20 Dec 2024 19:33

Tgt Ion: 88 Resp: 1284  
Ion Ratio Lower Upper  
88 100  
43 24.5 17.2 25.8  
58 53.3 44.5 66.7

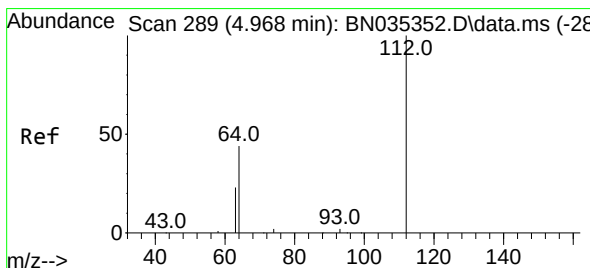
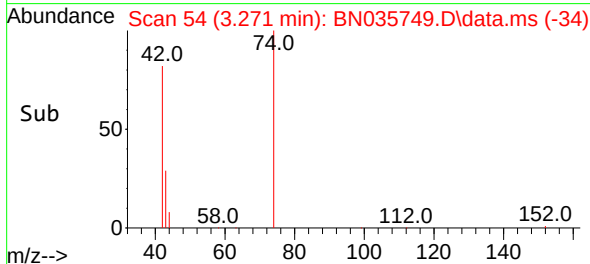
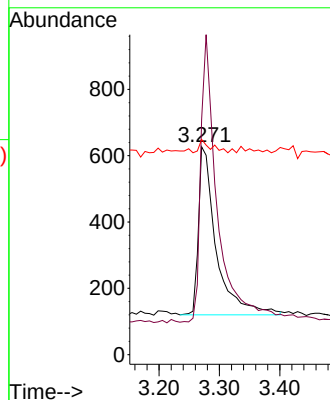
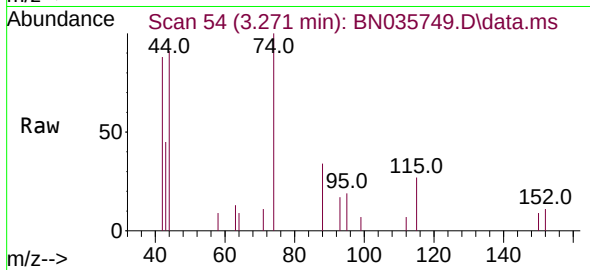




#3  
n-Nitrosodimethylamine  
Concen: 0.451 ng  
RT: 3.271 min Scan# 54  
Delta R.T. -0.007 min  
Lab File: BN035749.D  
Acq: 20 Dec 2024 19:33

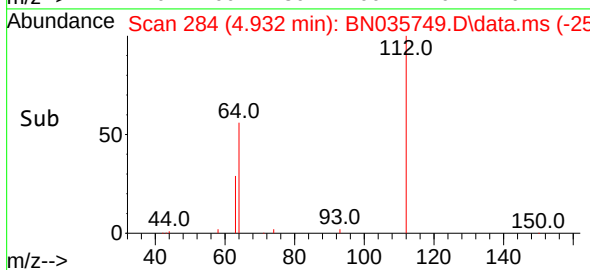
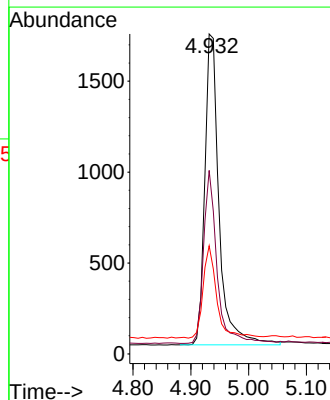
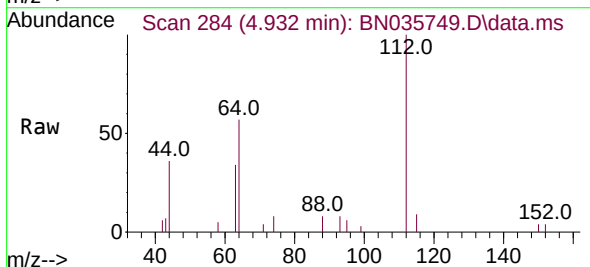
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

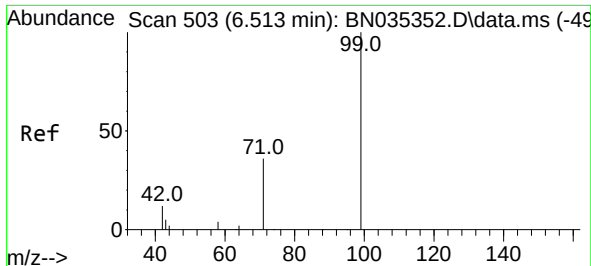
Tgt Ion: 42 Resp: 1037  
Ion Ratio Lower Upper  
42 100  
74 160.8 124.9 187.3  
44 7.0 2.2 3.4#



#4  
2-Fluorophenol  
Concen: 0.408 ng  
RT: 4.932 min Scan# 284  
Delta R.T. -0.007 min  
Lab File: BN035749.D  
Acq: 20 Dec 2024 19:33

Tgt Ion: 112 Resp: 2946  
Ion Ratio Lower Upper  
112 100  
64 52.4 39.8 59.8  
63 28.5 21.0 31.6

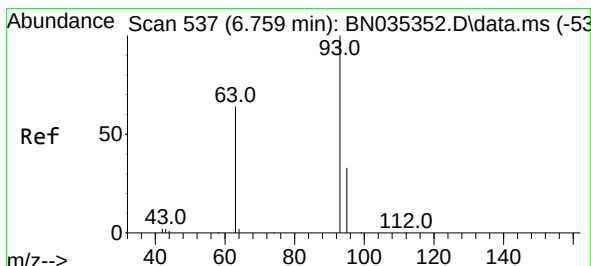
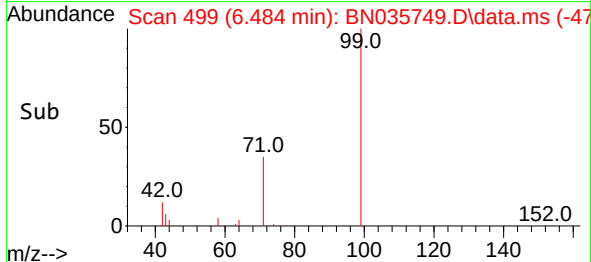
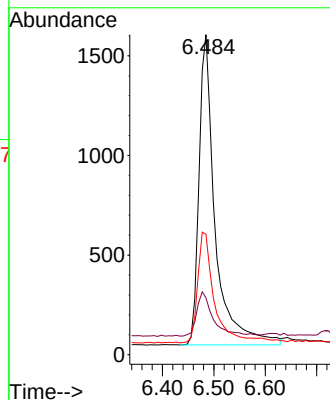
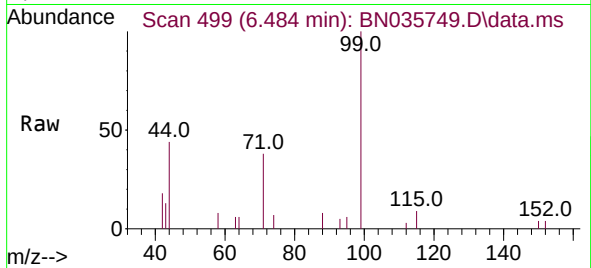




#5  
Phenol-d6  
Concen: 0.391 ng  
RT: 6.484 min Scan# 499  
Delta R.T. -0.007 min  
Lab File: BN035749.D  
Acq: 20 Dec 2024 19:33

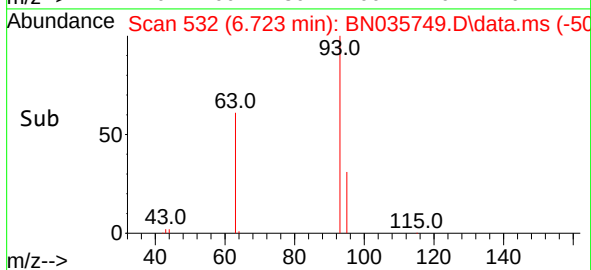
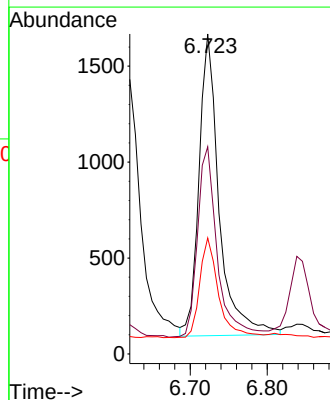
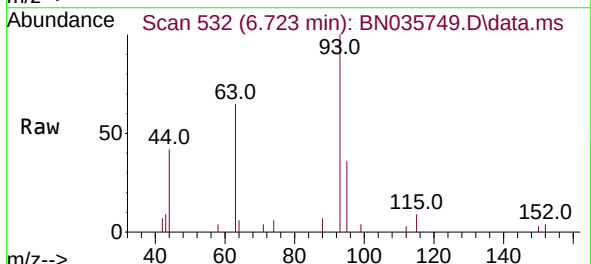
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

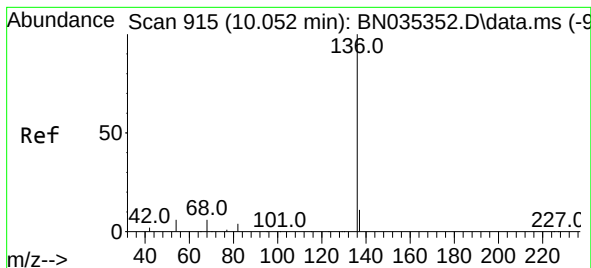
Tgt Ion: 99 Resp: 3398  
Ion Ratio Lower Upper  
99 100  
42 14.6 11.4 17.2  
71 37.5 29.3 43.9



#6  
bis(2-Chloroethyl)ether  
Concen: 0.391 ng  
RT: 6.723 min Scan# 532  
Delta R.T. -0.007 min  
Lab File: BN035749.D  
Acq: 20 Dec 2024 19:33

Tgt Ion: 93 Resp: 2854  
Ion Ratio Lower Upper  
93 100  
63 62.2 50.4 75.6  
95 31.1 25.7 38.5





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.009 min Scan# 91

Delta R.T. -0.011 min

Lab File: BN035749.D

Acq: 20 Dec 2024 19:33

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion:136 Resp: 7460

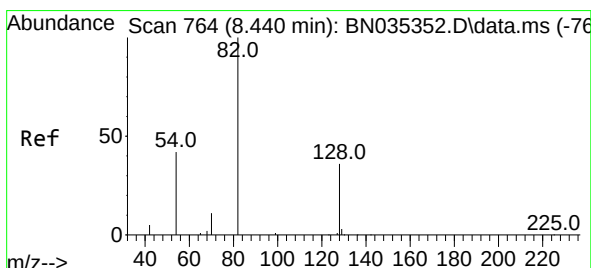
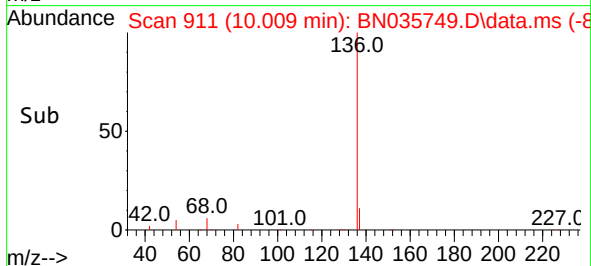
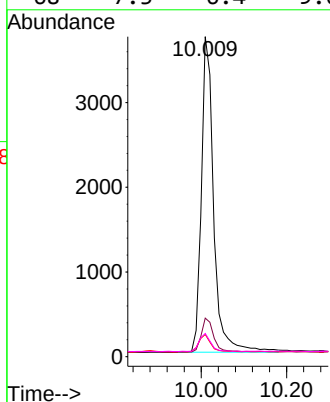
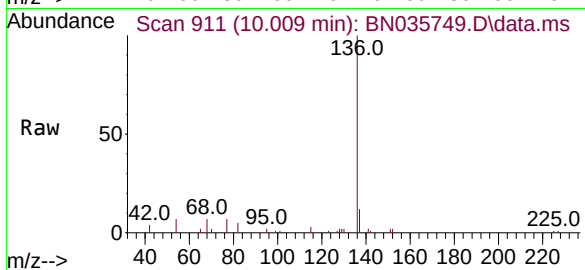
Ion Ratio Lower Upper

136 100

137 12.0 10.2 15.2

54 6.9 6.1 9.1

68 7.3 6.4 9.6



#8

Nitrobenzene-d5

Concen: 0.551 ng

RT: 8.408 min Scan# 761

Delta R.T. -0.000 min

Lab File: BN035749.D

Acq: 20 Dec 2024 19:33

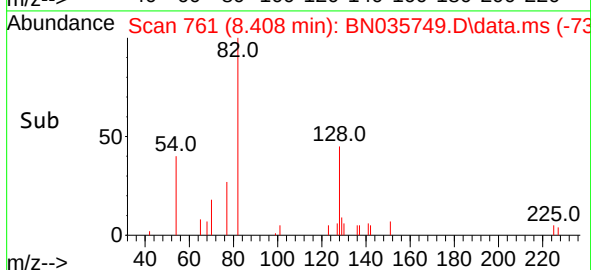
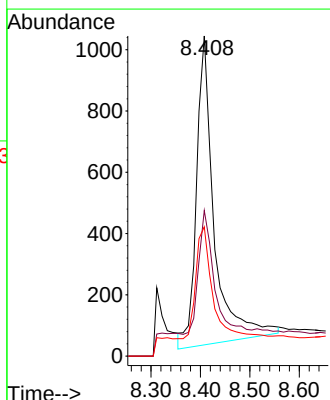
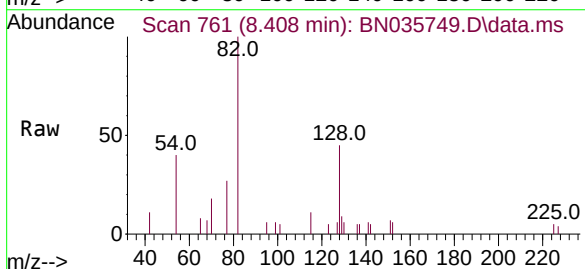
Tgt Ion: 82 Resp: 2510

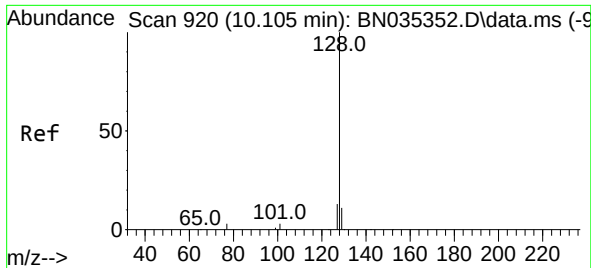
Ion Ratio Lower Upper

82 100

128 45.5 33.4 50.0

54 40.4 36.7 55.1

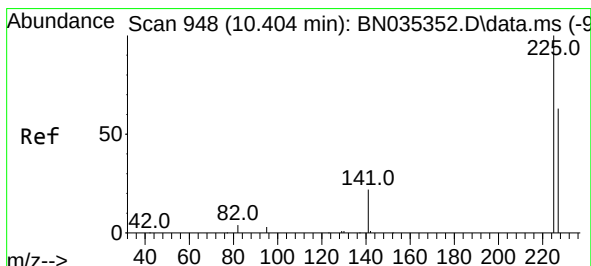
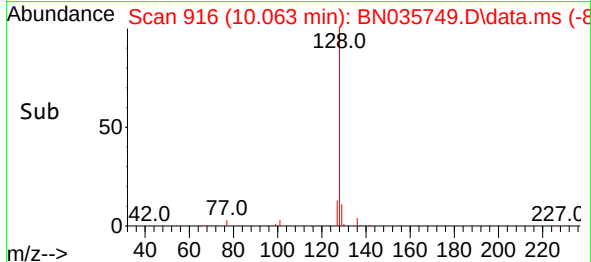
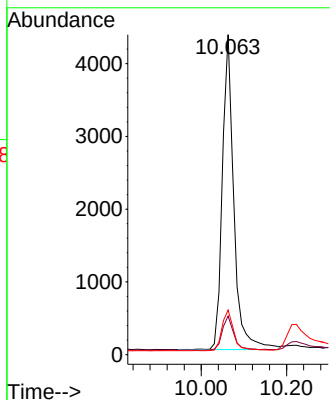
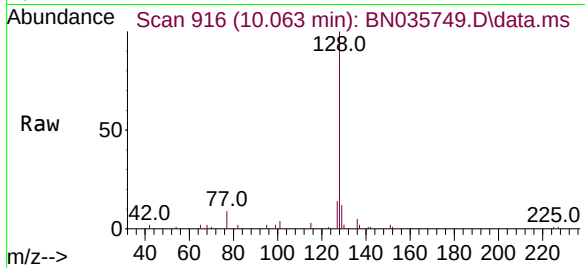




#9  
Naphthalene  
Concen: 0.412 ng  
RT: 10.063 min Scan# 916  
Delta R.T. -0.000 min  
Lab File: BN035749.D  
Acq: 20 Dec 2024 19:33

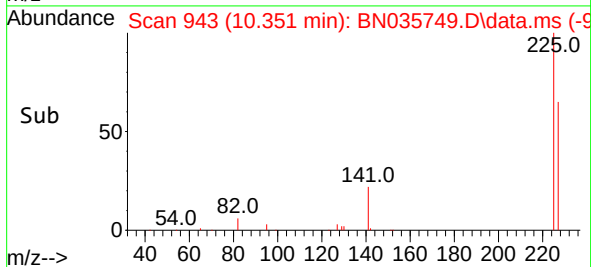
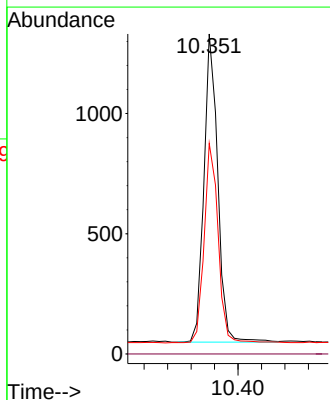
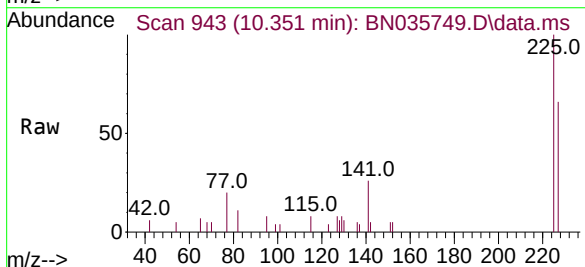
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

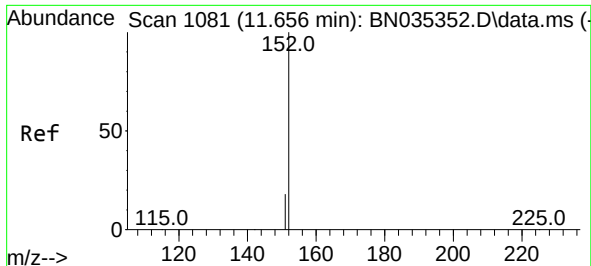
Tgt Ion:128 Resp: 8115  
Ion Ratio Lower Upper  
128 100  
129 12.1 9.8 14.6  
127 13.9 11.4 17.2



#10  
Hexachlorobutadiene  
Concen: 0.464 ng  
RT: 10.351 min Scan# 943  
Delta R.T. -0.011 min  
Lab File: BN035749.D  
Acq: 20 Dec 2024 19:33

Tgt Ion:225 Resp: 2104  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 65.6 51.3 76.9

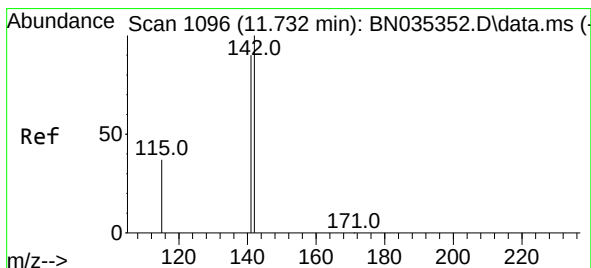
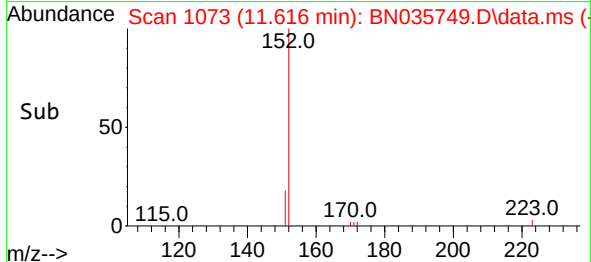
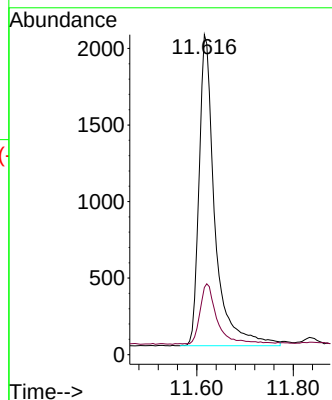
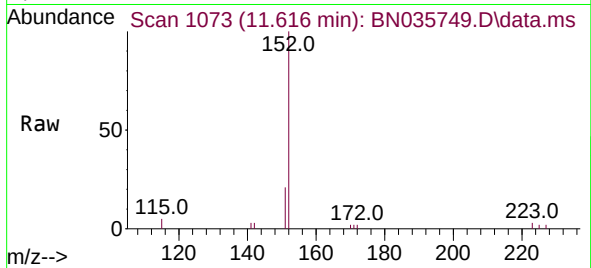




#11  
2-Methylnaphthalene-d10  
Concen: 0.397 ng  
RT: 11.616 min Scan# 1073  
Delta R.T. -0.005 min  
Lab File: BN035749.D  
Acq: 20 Dec 2024 19:33

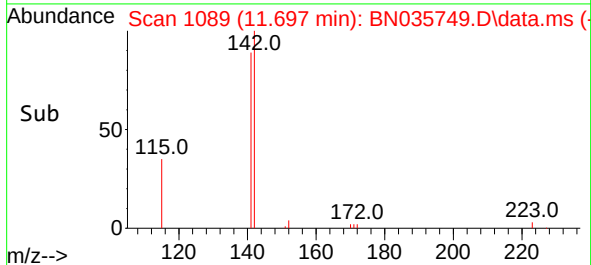
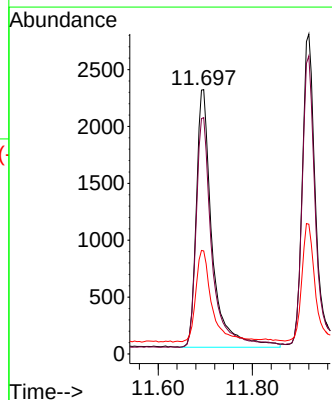
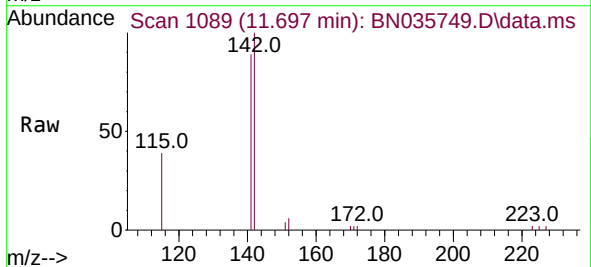
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

Tgt Ion:152 Resp: 4637  
Ion Ratio Lower Upper  
152 100  
151 21.4 16.6 25.0

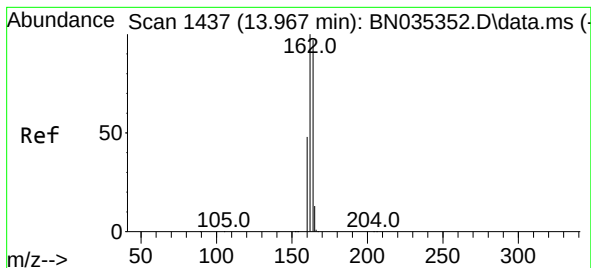


#12  
2-Methylnaphthalene  
Concen: 0.378 ng  
RT: 11.697 min Scan# 1089  
Delta R.T. -0.000 min  
Lab File: BN035749.D  
Acq: 20 Dec 2024 19:33

Tgt Ion:142 Resp: 5318  
Ion Ratio Lower Upper  
142 100  
141 89.4 72.2 108.4  
115 39.0 31.4 47.0







#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 13.925 min Scan# 14

Delta R.T. -0.011 min

Lab File: BN035749.D

Acq: 20 Dec 2024 19:33

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

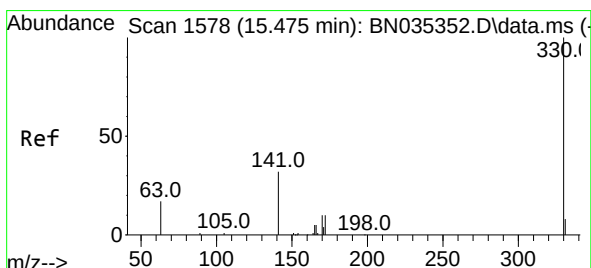
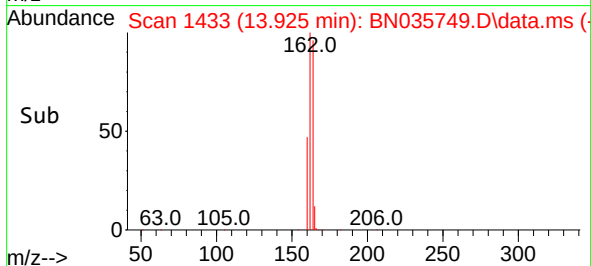
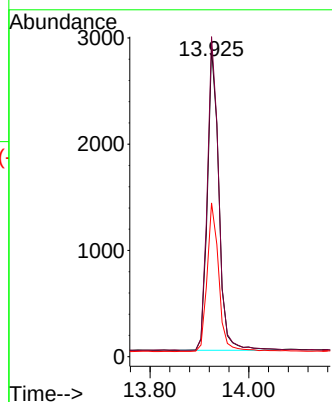
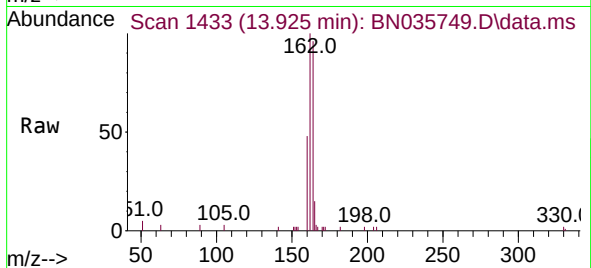
Tgt Ion:164 Resp: 4592

Ion Ratio Lower Upper

164 100

162 103.6 82.2 123.2

160 49.8 40.1 60.1



#14

2,4,6-Tribromophenol

Concen: 0.331 ng

RT: 15.453 min Scan# 1576

Delta R.T. -0.000 min

Lab File: BN035749.D

Acq: 20 Dec 2024 19:33

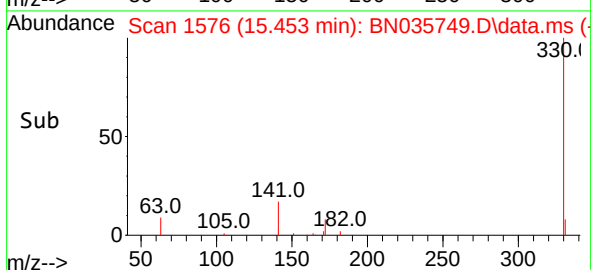
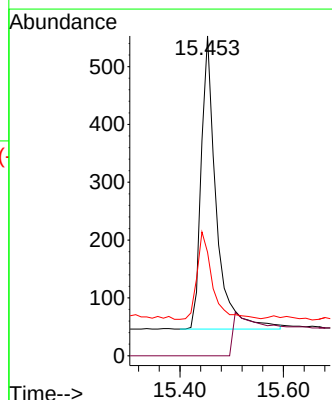
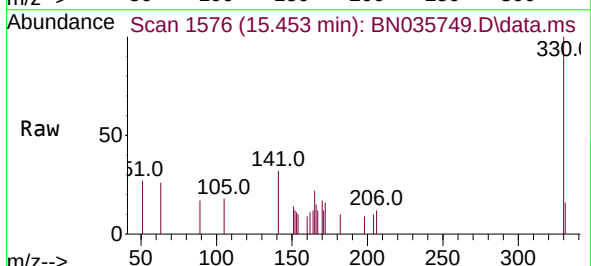
Tgt Ion:330 Resp: 1079

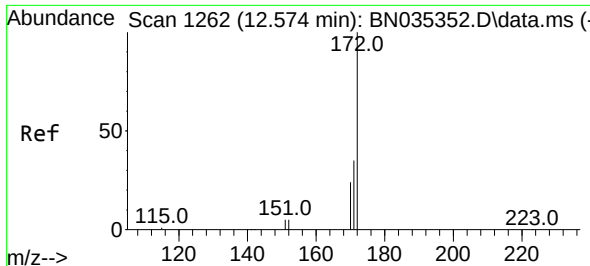
Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

141 29.6 26.6 40.0

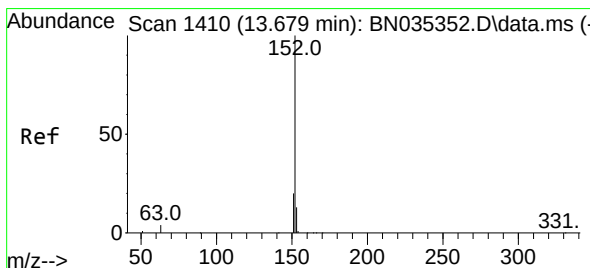
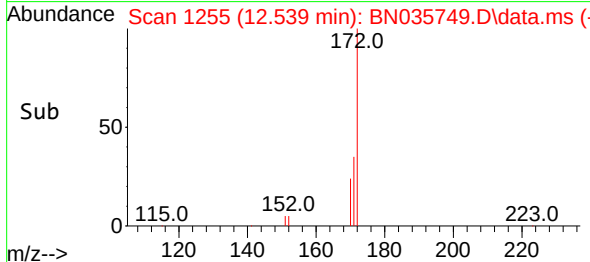
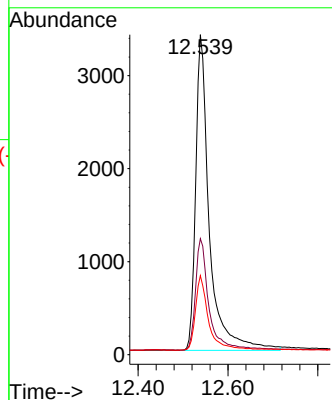
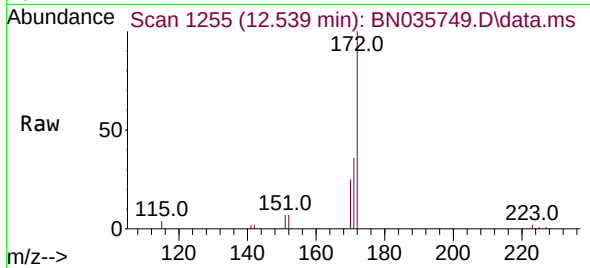




#15  
2-Fluorobiphenyl  
Concen: 0.413 ng  
RT: 12.539 min Scan# 11  
Delta R.T. -0.005 min  
Lab File: BN035749.D  
Acq: 20 Dec 2024 19:33

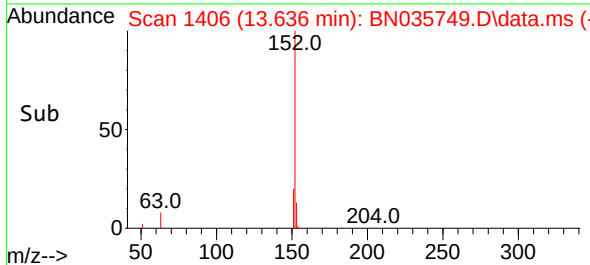
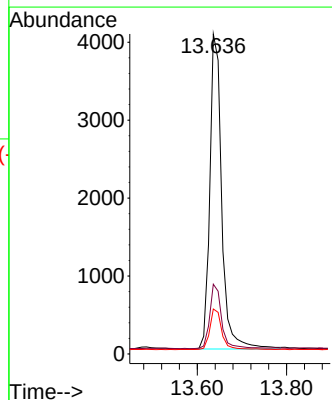
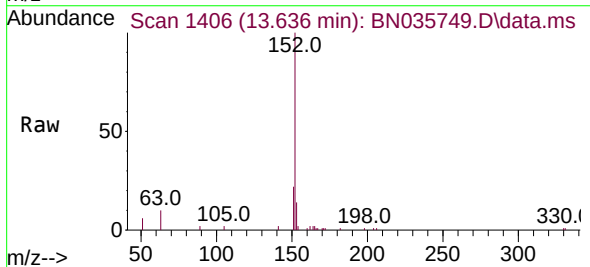
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

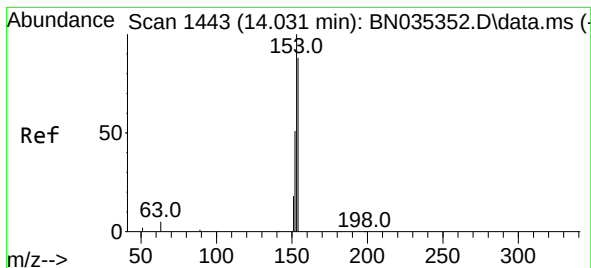
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:172 | Resp: | 7163      |
| Ion Ratio   | Lower | Upper     |
| 172         | 100   |           |
| 171         | 36.3  | 29.0 43.4 |
| 170         | 24.7  | 19.8 29.8 |



#16  
Acenaphthylene  
Concen: 0.387 ng  
RT: 13.636 min Scan# 1406  
Delta R.T. -0.011 min  
Lab File: BN035749.D  
Acq: 20 Dec 2024 19:33

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:152 | Resp: | 7458      |
| Ion Ratio   | Lower | Upper     |
| 152         | 100   |           |
| 151         | 20.4  | 16.2 24.2 |
| 153         | 13.2  | 10.4 15.6 |





#17

Acenaphthene

Concen: 0.405 ng

RT: 13.989 min Scan# 14

Delta R.T. -0.011 min

Lab File: BN035749.D

Acq: 20 Dec 2024 19:33

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

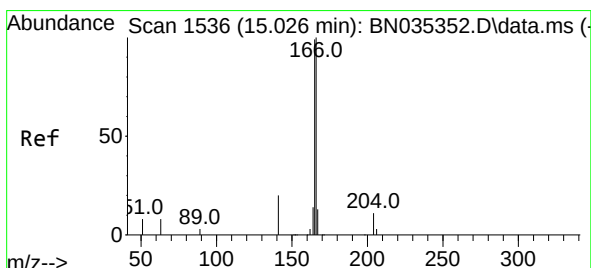
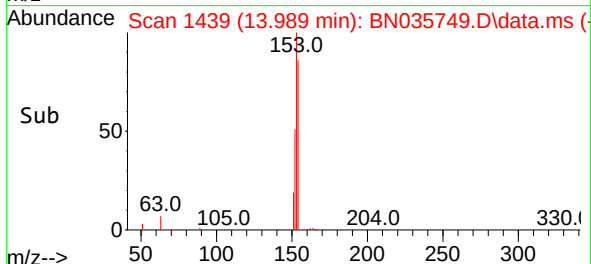
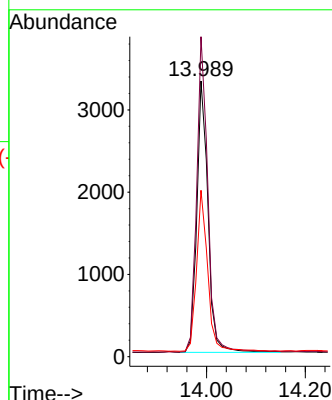
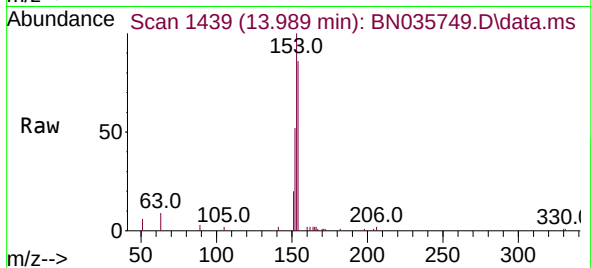
Tgt Ion:154 Resp: 5179

Ion Ratio Lower Upper

154 100

153 115.5 92.6 139.0

152 59.2 49.0 73.6



#18

Fluorene

Concen: 0.367 ng

RT: 14.994 min Scan# 1533

Delta R.T. -0.011 min

Lab File: BN035749.D

Acq: 20 Dec 2024 19:33

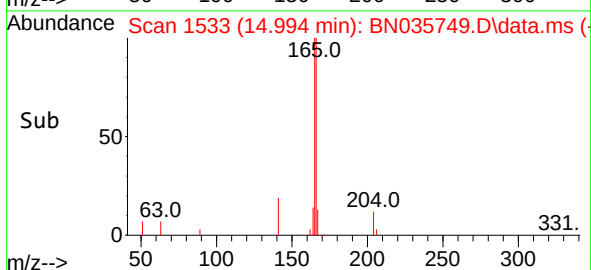
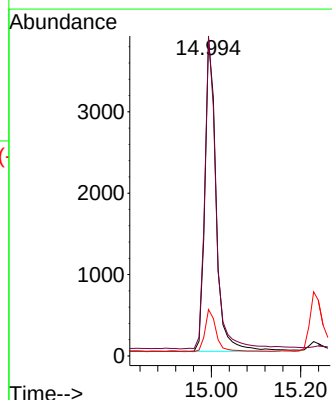
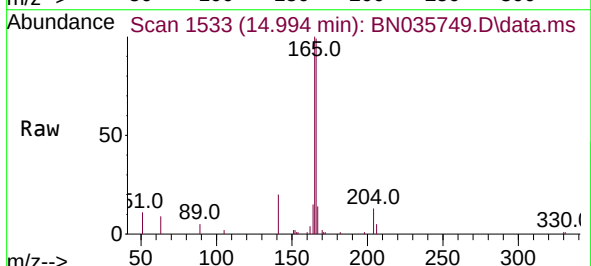
Tgt Ion:166 Resp: 6721

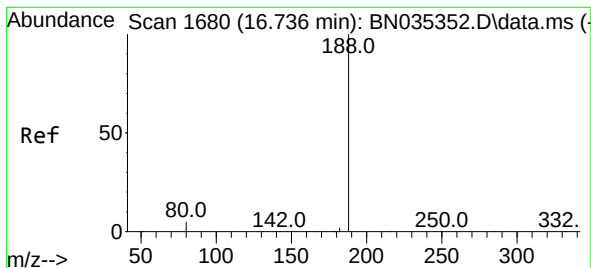
Ion Ratio Lower Upper

166 100

165 99.7 79.7 119.5

167 13.6 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.698 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN035749.D

Acq: 20 Dec 2024 19:33

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

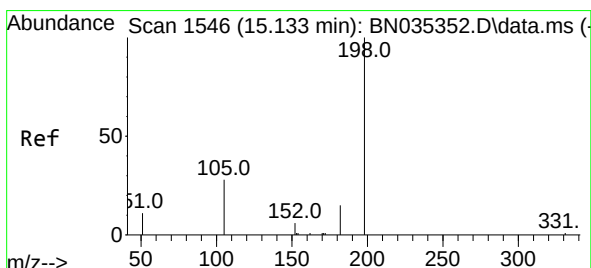
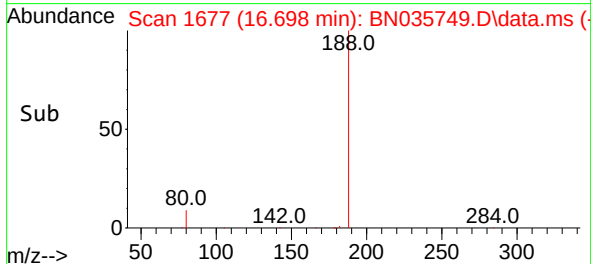
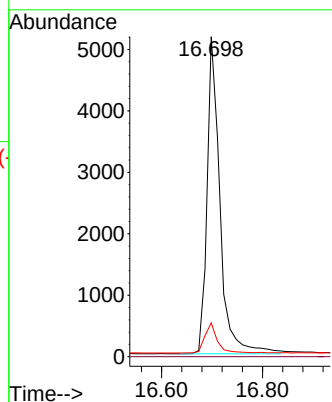
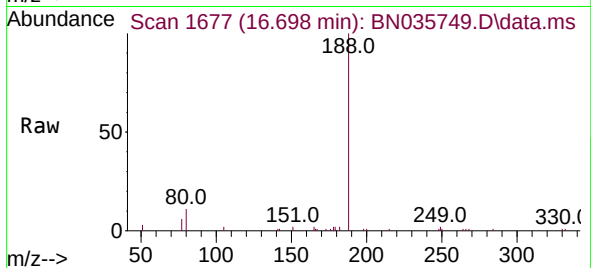
Tgt Ion:188 Resp: 9182

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.6 4.6 6.8#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.110 ng

RT: 15.133 min Scan# 1546

Delta R.T. 0.011 min

Lab File: BN035749.D

Acq: 20 Dec 2024 19:33

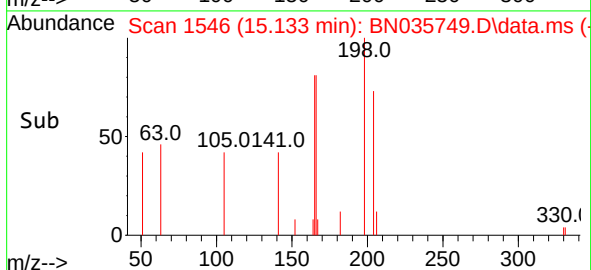
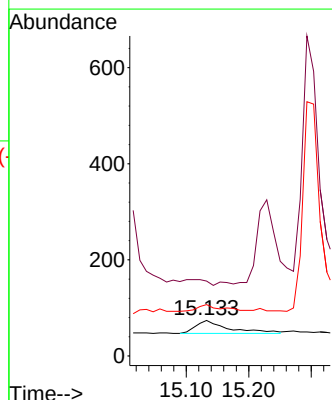
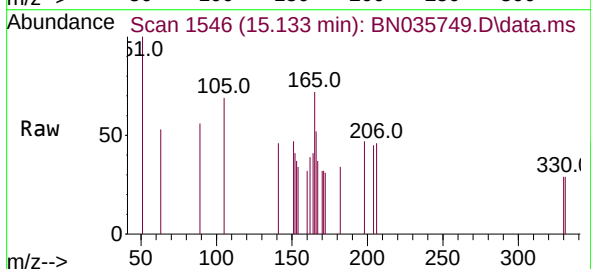
Tgt Ion:198 Resp: 99

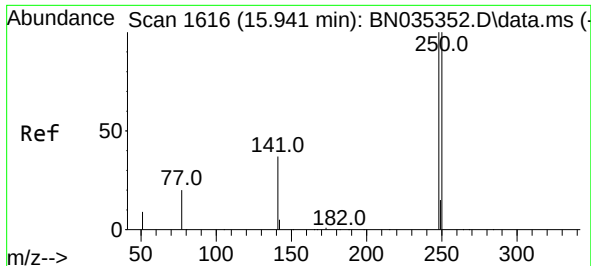
Ion Ratio Lower Upper

198 100

51 210.8 46.5 69.7#

105 144.6 45.3 67.9#

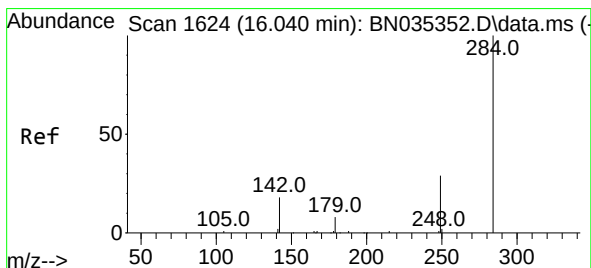
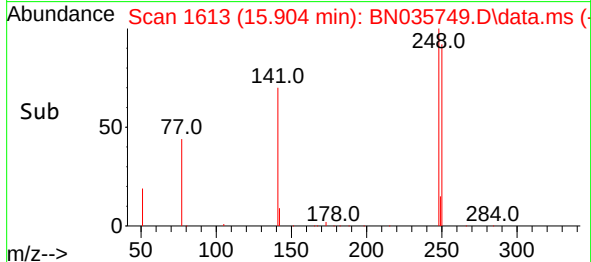
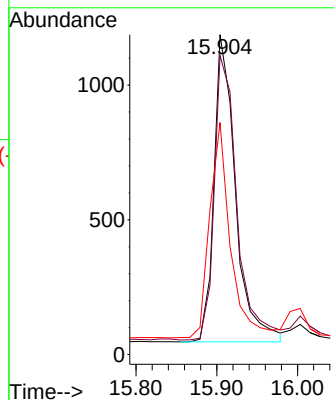
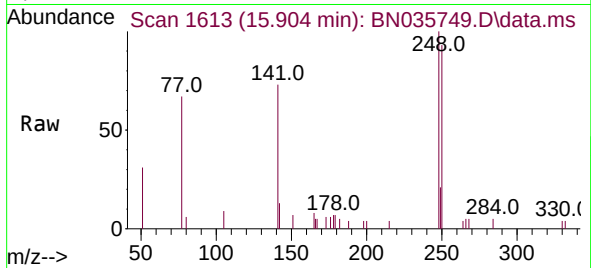




#21  
4-Bromophenyl-phenylether  
Concen: 0.393 ng  
RT: 15.904 min Scan# 1613  
Delta R.T. -0.012 min  
Lab File: BN035749.D  
Acq: 20 Dec 2024 19:33

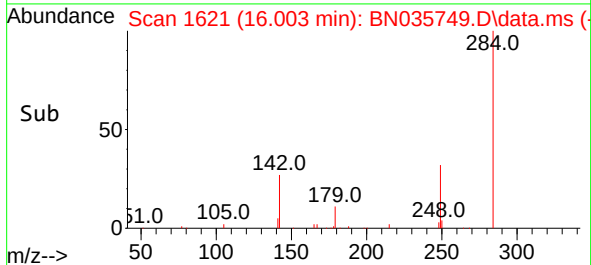
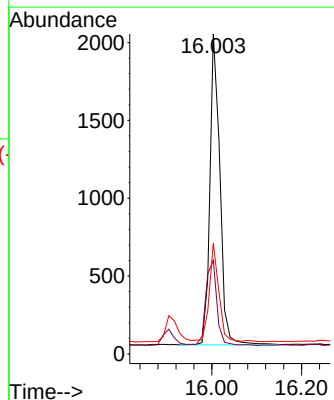
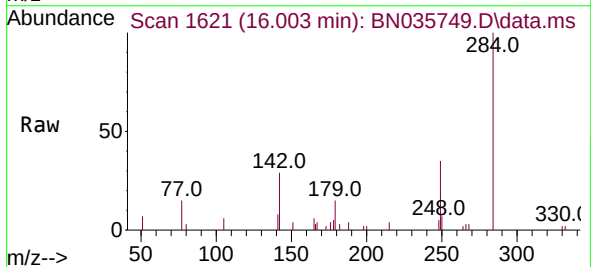
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

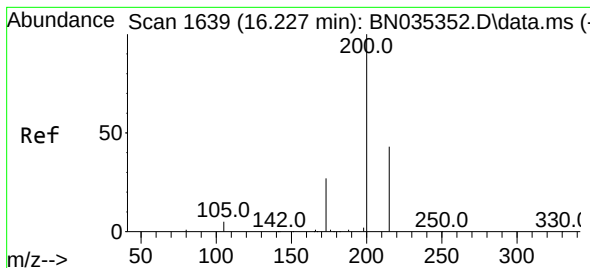
Tgt Ion:248 Resp: 2111  
Ion Ratio Lower Upper  
248 100  
250 93.4 80.6 120.8  
141 72.5 31.5 47.3#



#22  
Hexachlorobenzene  
Concen: 0.487 ng  
RT: 16.003 min Scan# 1621  
Delta R.T. -0.012 min  
Lab File: BN035749.D  
Acq: 20 Dec 2024 19:33

Tgt Ion:284 Resp: 3074  
Ion Ratio Lower Upper  
284 100  
142 30.3 26.7 40.1  
249 29.7 24.6 36.8





#23

Atrazine

Concen: 0.414 ng

RT: 16.202 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN035749.D

Acq: 20 Dec 2024 19:33

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

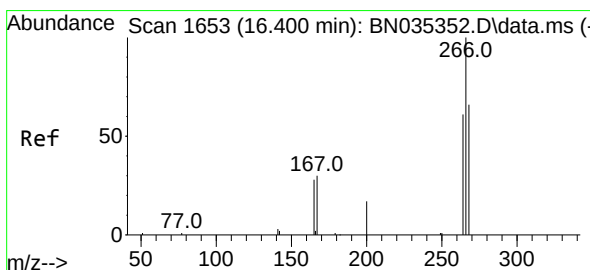
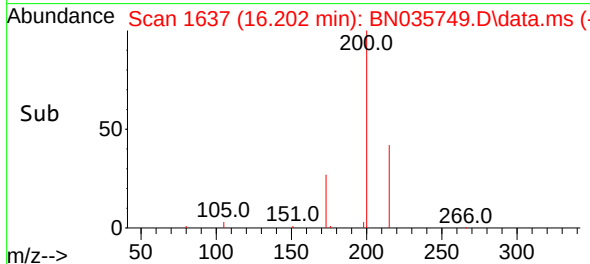
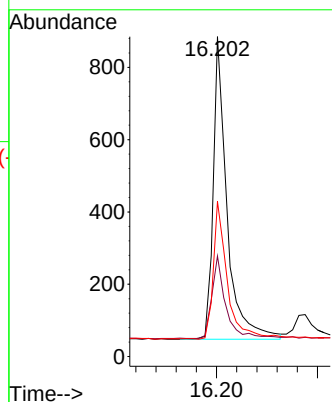
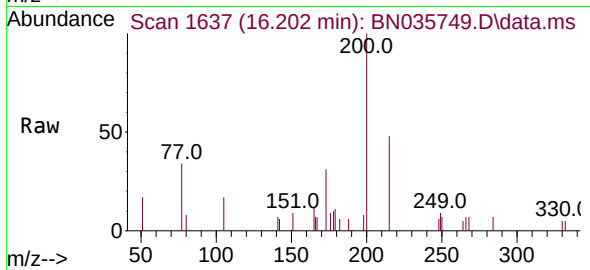
Tgt Ion:200 Resp: 1584

Ion Ratio Lower Upper

200 100

173 31.4 24.1 36.1

215 48.5 36.9 55.3



#24

Pentachlorophenol

Concen: 0.370 ng

RT: 16.376 min Scan# 1651

Delta R.T. -0.000 min

Lab File: BN035749.D

Acq: 20 Dec 2024 19:33

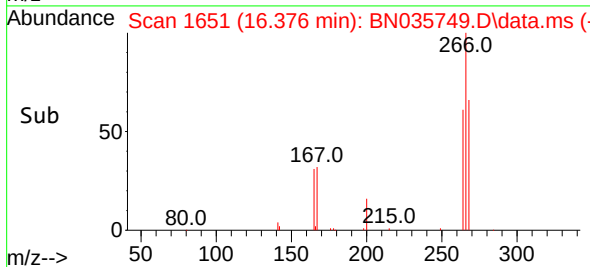
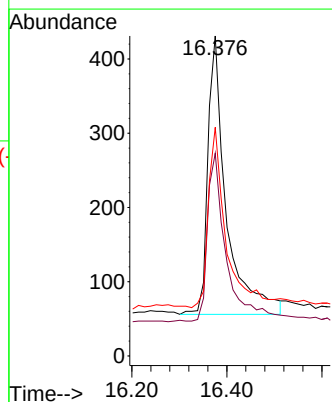
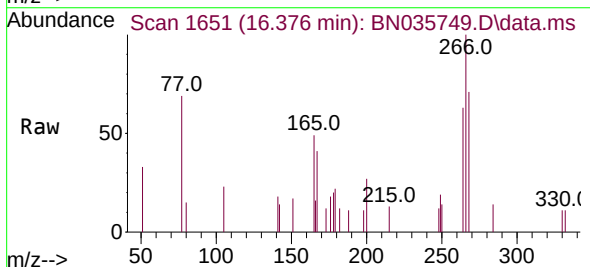
Tgt Ion:266 Resp: 1014

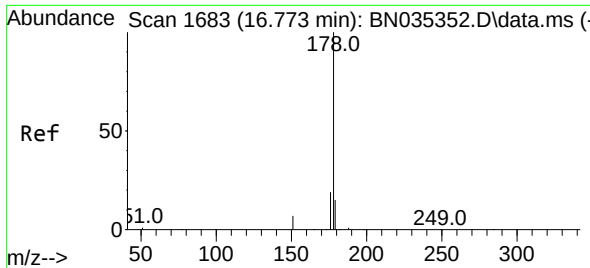
Ion Ratio Lower Upper

266 100

264 61.4 42.3 63.5

268 64.0 43.3 64.9

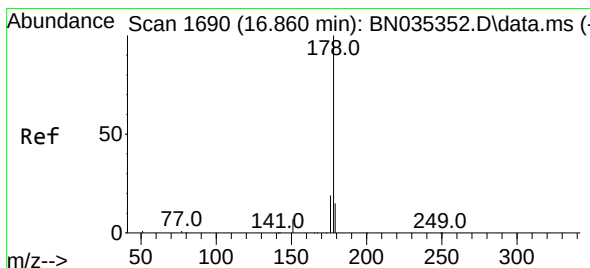
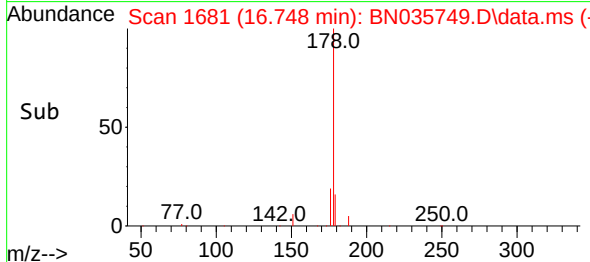
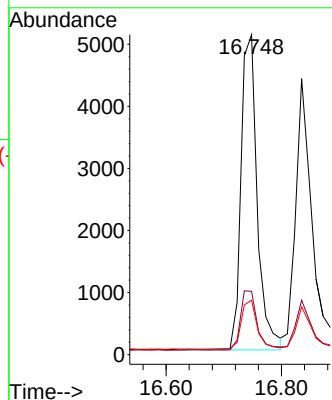
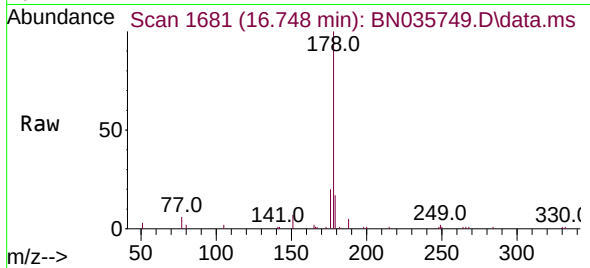




#25  
Phenanthrene  
Concen: 0.391 ng  
RT: 16.748 min Scan# 1681  
Delta R.T. -0.000 min  
Lab File: BN035749.D  
Acq: 20 Dec 2024 19:33

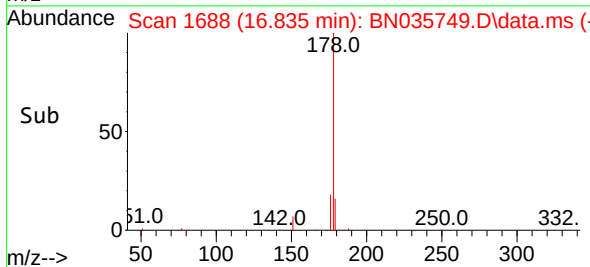
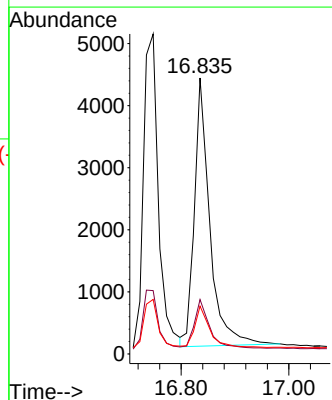
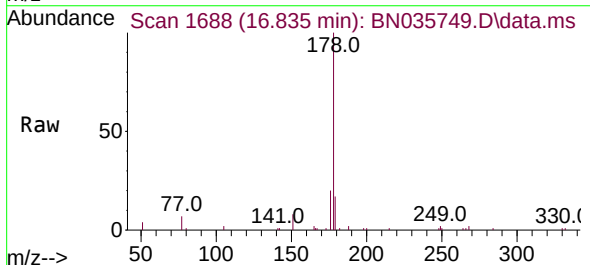
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

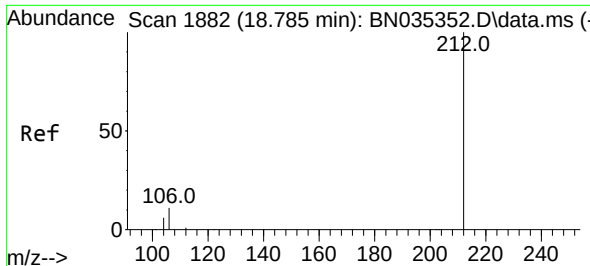
Tgt Ion:178 Resp: 9861  
Ion Ratio Lower Upper  
178 100  
176 19.2 15.4 23.2  
179 15.4 12.3 18.5



#26  
Anthracene  
Concen: 0.378 ng  
RT: 16.835 min Scan# 1688  
Delta R.T. -0.000 min  
Lab File: BN035749.D  
Acq: 20 Dec 2024 19:33

Tgt Ion:178 Resp: 8624  
Ion Ratio Lower Upper  
178 100  
176 18.2 15.0 22.6  
179 15.3 12.6 18.8

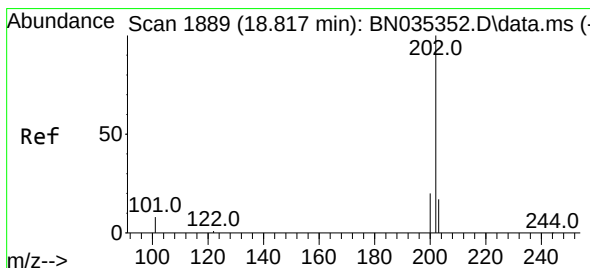
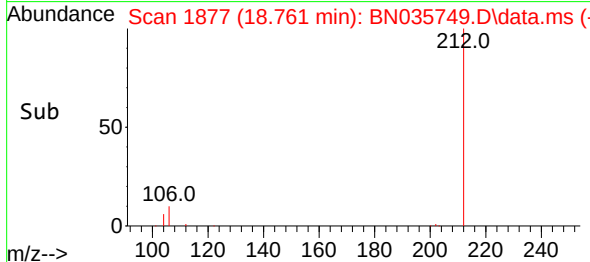
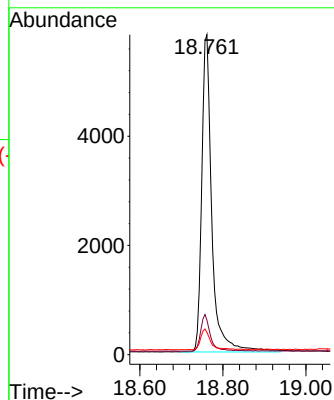
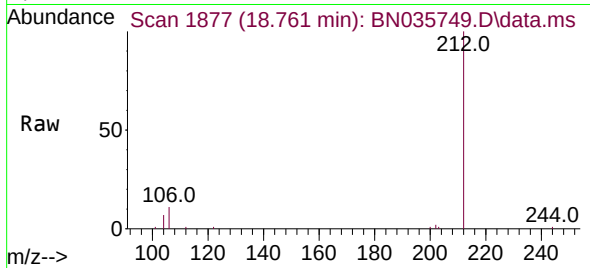




#27  
Fluoranthene-d10  
Concen: 0.379 ng  
RT: 18.761 min Scan# 1877  
Delta R.T. -0.000 min  
Lab File: BN035749.D  
Acq: 20 Dec 2024 19:33

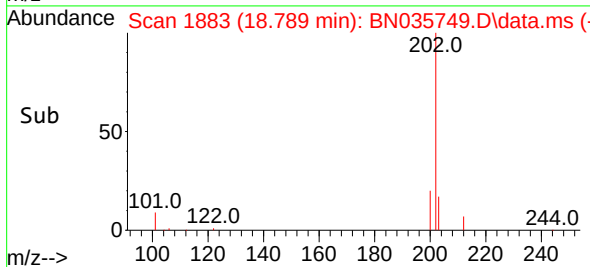
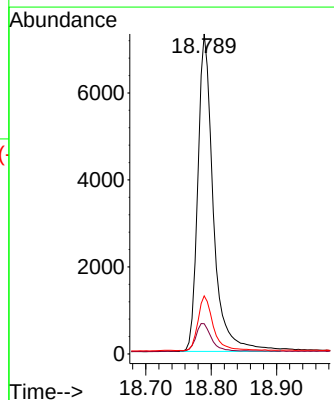
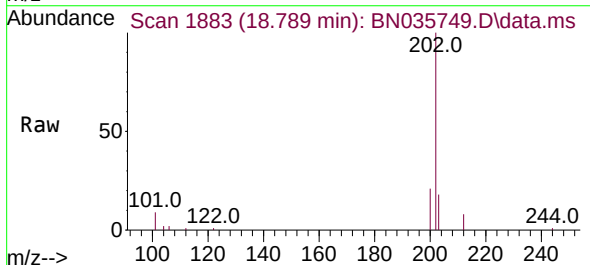
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

Tgt Ion:212 Resp: 9858  
Ion Ratio Lower Upper  
212 100  
106 11.0 9.2 13.8  
104 6.4 5.3 7.9

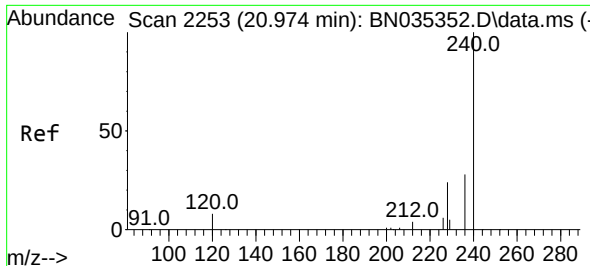


#28  
Fluoranthene  
Concen: 0.353 ng  
RT: 18.789 min Scan# 1883  
Delta R.T. -0.000 min  
Lab File: BN035749.D  
Acq: 20 Dec 2024 19:33

Tgt Ion:202 Resp: 12002  
Ion Ratio Lower Upper  
202 100  
101 9.1 7.4 11.0  
203 17.1 13.7 20.5



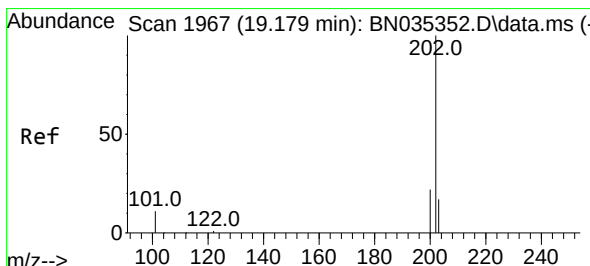
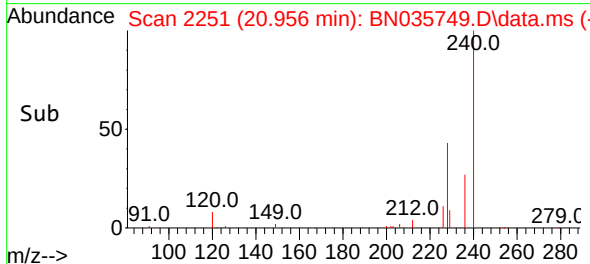
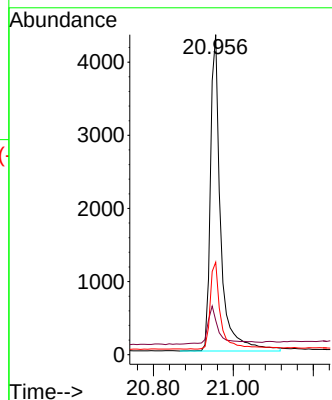
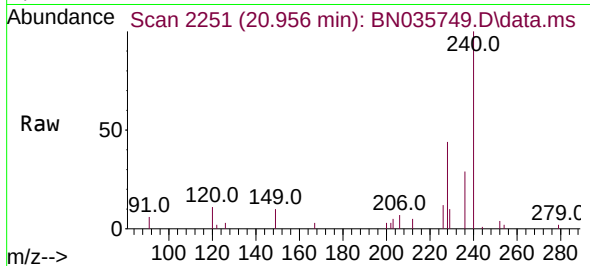




#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 20.956 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: BN035749.D  
Acq: 20 Dec 2024 19:33

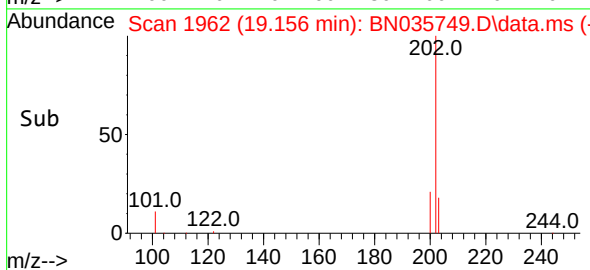
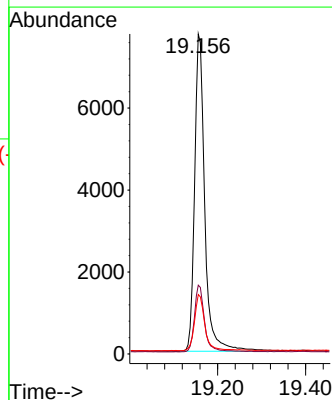
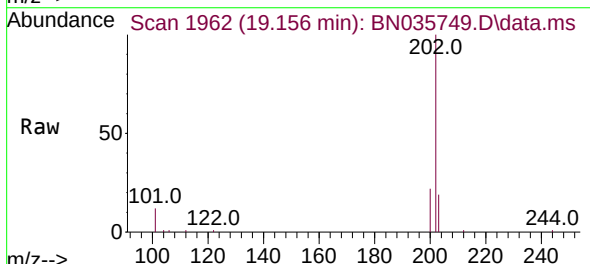
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

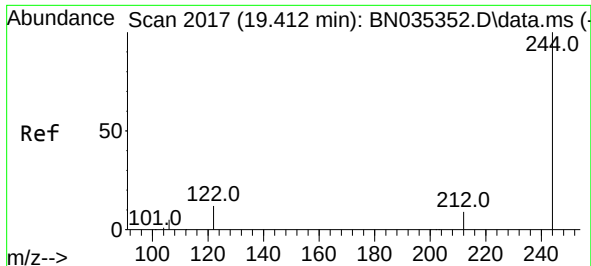
Tgt Ion:240 Resp: 7719  
Ion Ratio Lower Upper  
240 100  
120 10.7 7.9 11.9  
236 28.9 22.9 34.3



#30  
Pyrene  
Concen: 0.438 ng  
RT: 19.156 min Scan# 1962  
Delta R.T. -0.005 min  
Lab File: BN035749.D  
Acq: 20 Dec 2024 19:33

Tgt Ion:202 Resp: 12468  
Ion Ratio Lower Upper  
202 100  
200 20.7 17.0 25.4  
203 17.8 14.3 21.5

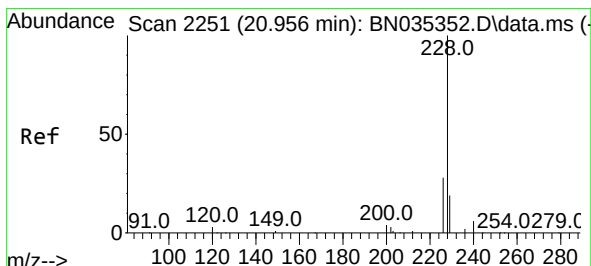
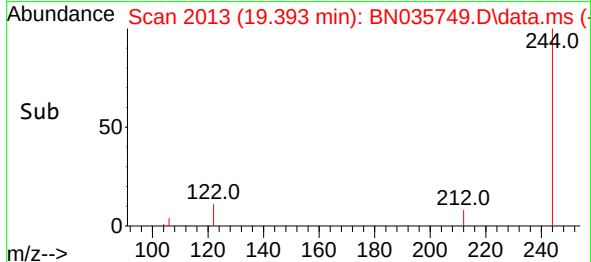
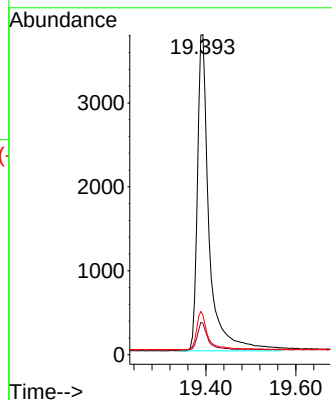
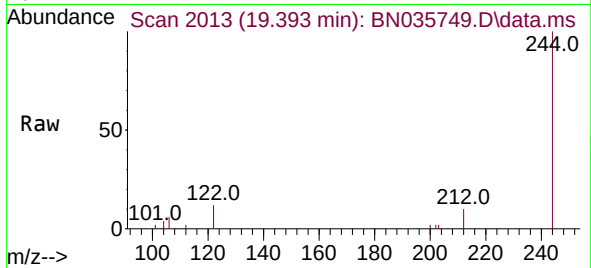




#31  
 Terphenyl-d14  
 Concen: 0.452 ng  
 RT: 19.393 min Scan# 2017  
 Delta R.T. 0.005 min  
 Lab File: BN035749.D  
 Acq: 20 Dec 2024 19:33

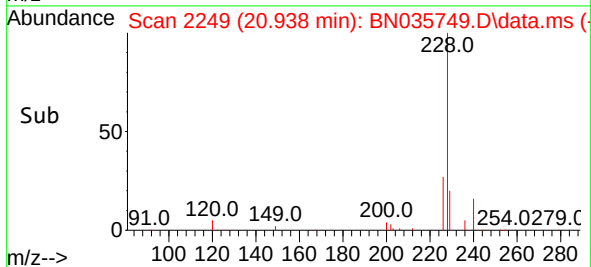
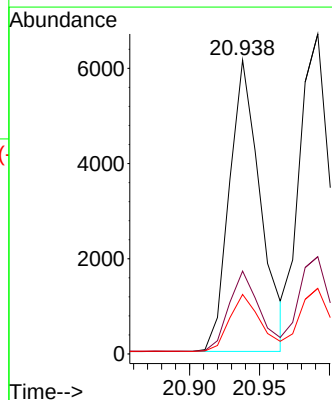
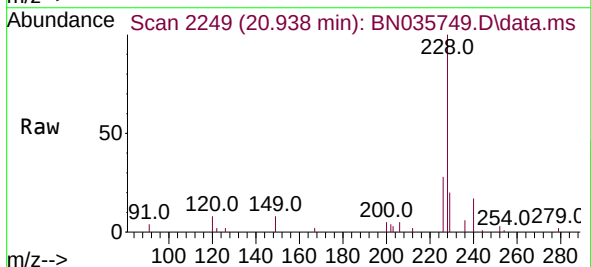
Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4

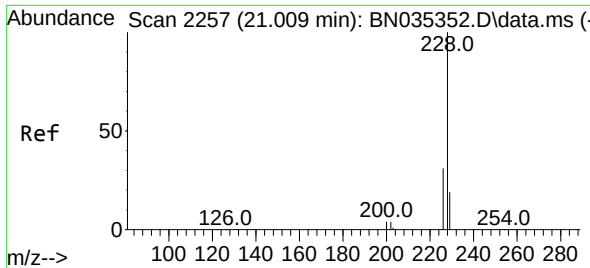
Tgt Ion:244 Resp: 6880  
 Ion Ratio Lower Upper  
 244 100  
 212 9.8 8.1 12.1  
 122 12.4 10.3 15.5



#32  
 Benzo(a)anthracene  
 Concen: 0.351 ng  
 RT: 20.938 min Scan# 2249  
 Delta R.T. -0.000 min  
 Lab File: BN035749.D  
 Acq: 20 Dec 2024 19:33

Tgt Ion:228 Resp: 9472  
 Ion Ratio Lower Upper  
 228 100  
 226 28.2 22.5 33.7  
 229 20.3 15.8 23.8

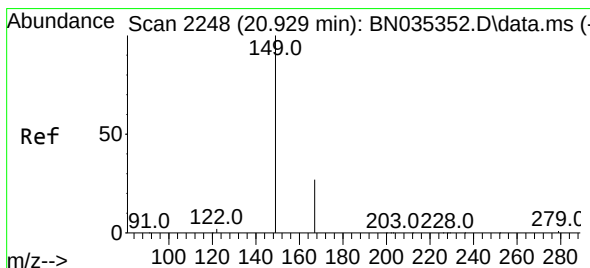
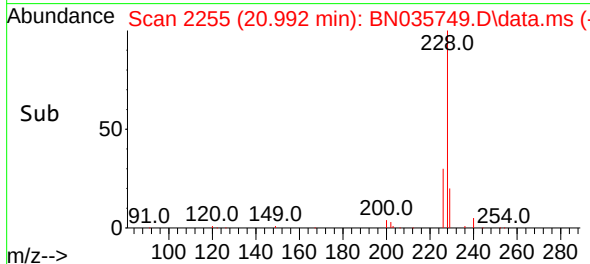
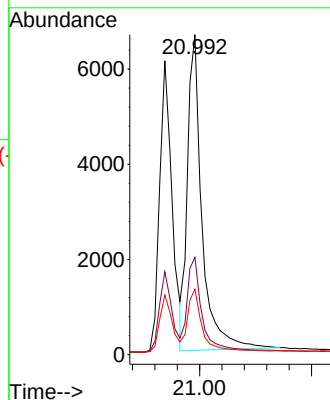
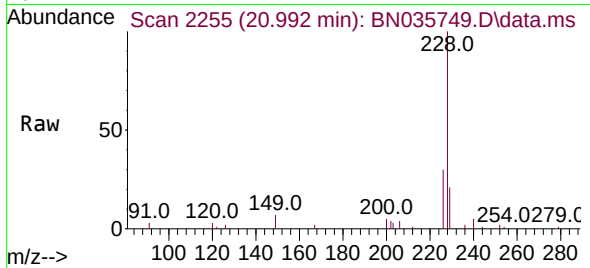




#33  
Chrysene  
Concen: 0.429 ng  
RT: 20.992 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: BN035749.D  
Acq: 20 Dec 2024 19:33

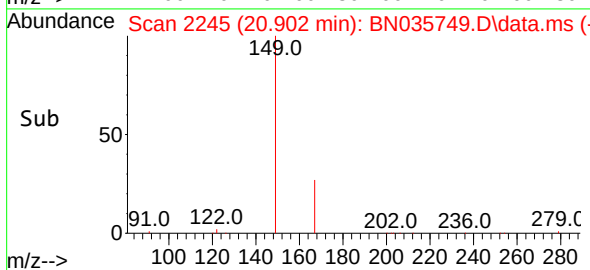
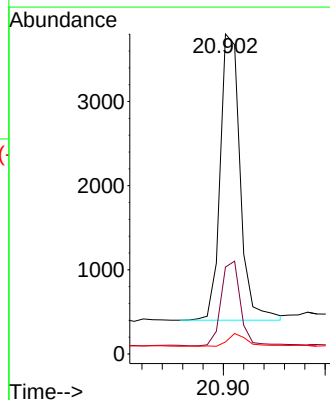
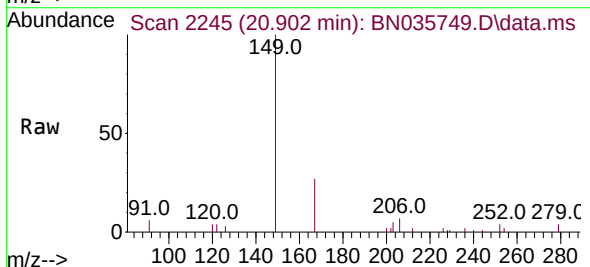
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

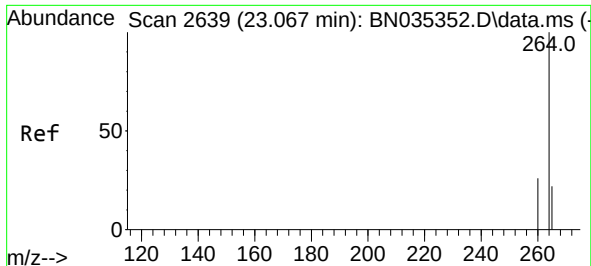
Tgt Ion:228 Resp: 11952  
Ion Ratio Lower Upper  
228 100  
226 30.4 24.6 37.0  
229 20.5 15.9 23.9



#34  
Bis(2-ethylhexyl)phthalate  
Concen: 0.434 ng  
RT: 20.902 min Scan# 2245  
Delta R.T. -0.009 min  
Lab File: BN035749.D  
Acq: 20 Dec 2024 19:33

Tgt Ion:149 Resp: 4632  
Ion Ratio Lower Upper  
149 100  
167 28.9 22.2 33.4  
279 4.5 2.7 4.1#

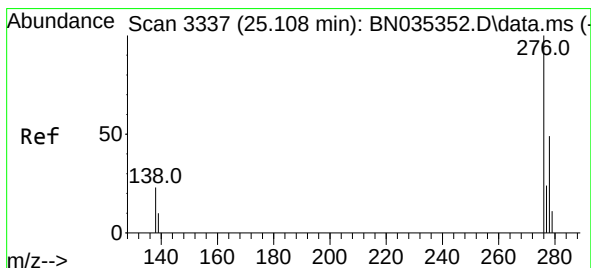
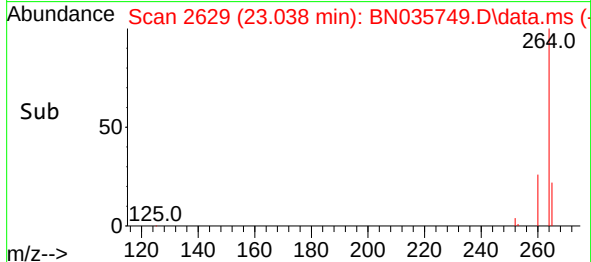
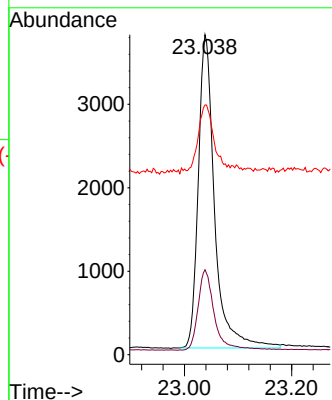
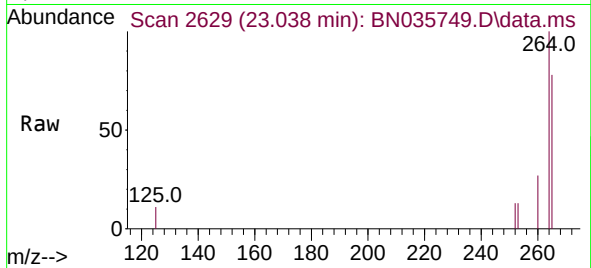




#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.038 min Scan# 2629  
Delta R.T. -0.003 min  
Lab File: BN035749.D  
Acq: 20 Dec 2024 19:33

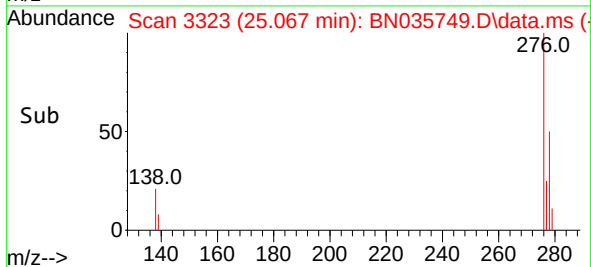
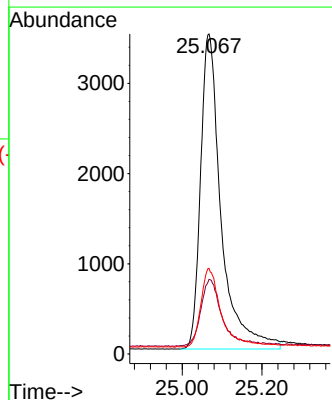
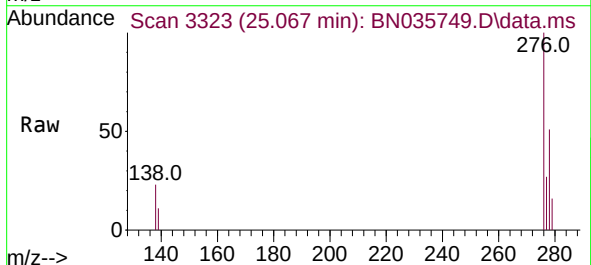
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

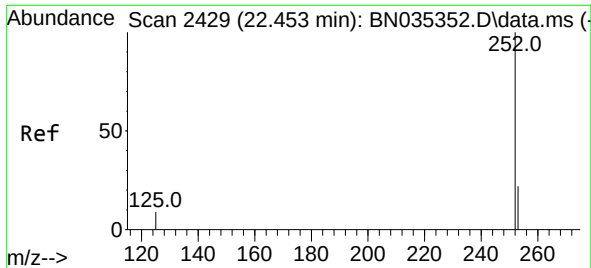
Tgt Ion:264 Resp: 7943  
Ion Ratio Lower Upper  
264 100  
260 26.5 21.4 32.2  
265 78.1 40.2 60.4#



#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.404 ng  
RT: 25.067 min Scan# 3323  
Delta R.T. -0.000 min  
Lab File: BN035749.D  
Acq: 20 Dec 2024 19:33

Tgt Ion:276 Resp: 12531  
Ion Ratio Lower Upper  
276 100  
138 21.0 19.4 29.0  
277 24.2 19.8 29.6

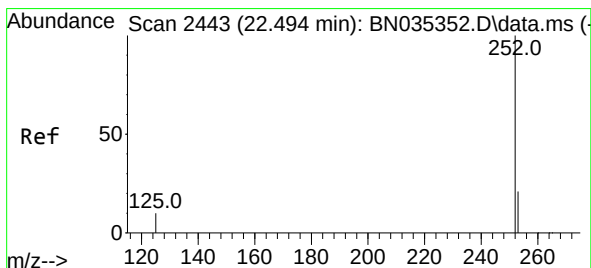
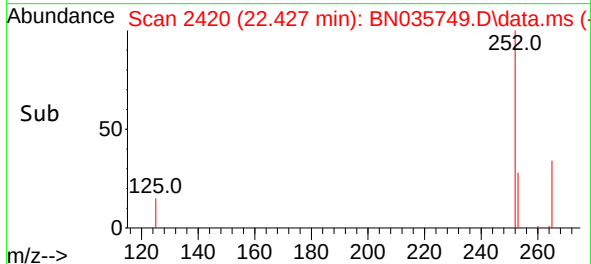
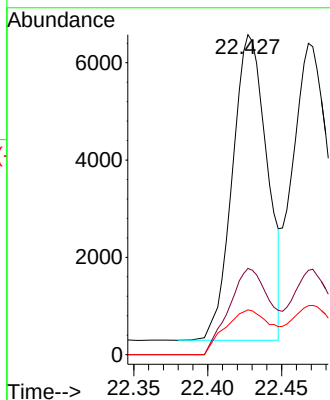
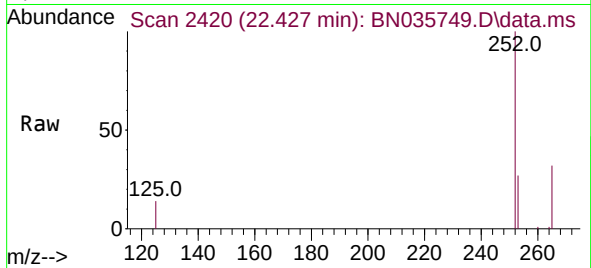




#37  
Benzo(b)fluoranthene  
Concen: 0.472 ng  
RT: 22.427 min Scan# 2420  
Delta R.T. -0.003 min  
Lab File: BN035749.D  
Acq: 20 Dec 2024 19:33

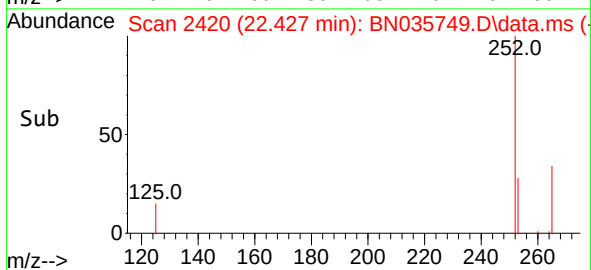
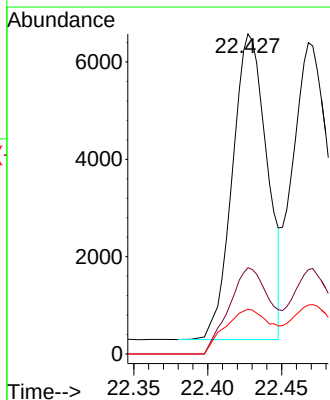
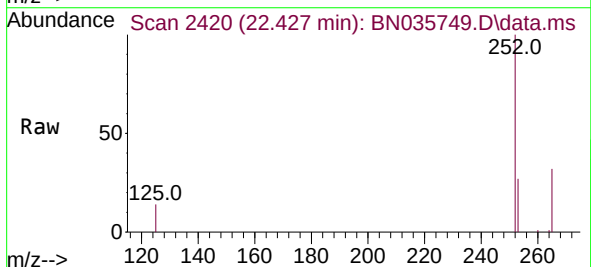
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

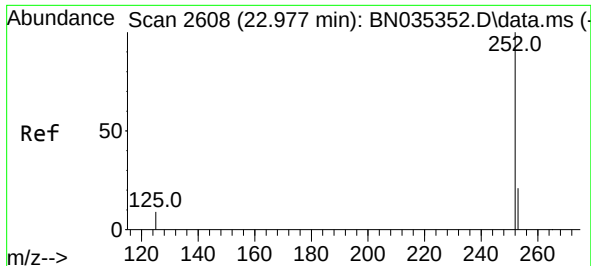
Tgt Ion:252 Resp: 13708  
Ion Ratio Lower Upper  
252 100  
253 26.9 19.6 29.4  
125 14.0 9.6 14.4



#38  
Benzo(k)fluoranthene  
Concen: 0.479 ng  
RT: 22.427 min Scan# 2420  
Delta R.T. -0.044 min  
Lab File: BN035749.D  
Acq: 20 Dec 2024 19:33

Tgt Ion:252 Resp: 13708  
Ion Ratio Lower Upper  
252 100  
253 26.9 19.5 29.3  
125 14.0 10.2 15.4





#39

Benzo(a)pyrene

Concen: 0.389 ng

RT: 22.950 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035749.D

Acq: 20 Dec 2024 19:33

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

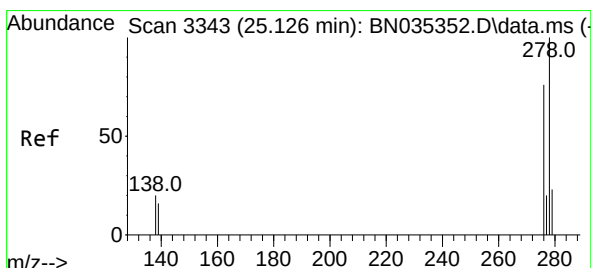
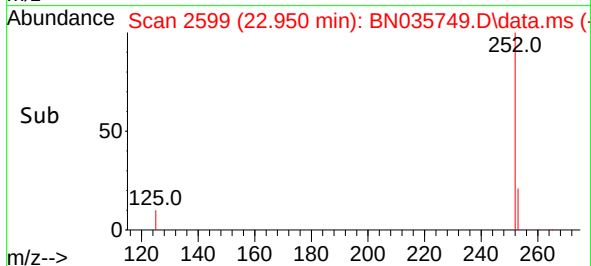
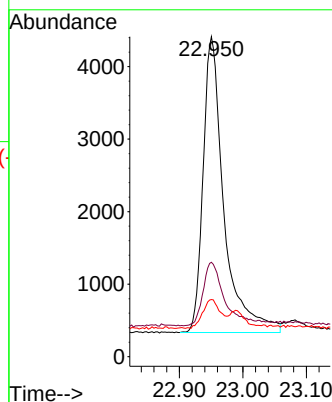
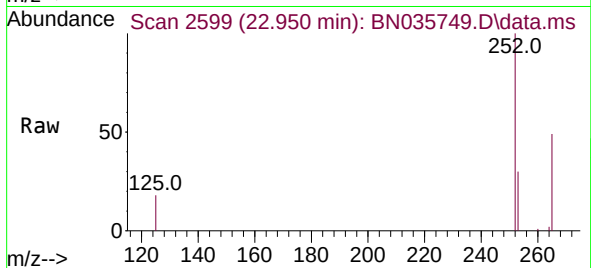
Tgt Ion:252 Resp: 9304

Ion Ratio Lower Upper

252 100

253 29.5 20.2 30.4

125 17.9 10.9 16.3#



#40

Dibenzo(a,h)anthracene

Concen: 0.389 ng

RT: 25.082 min Scan# 3328

Delta R.T. -0.000 min

Lab File: BN035749.D

Acq: 20 Dec 2024 19:33

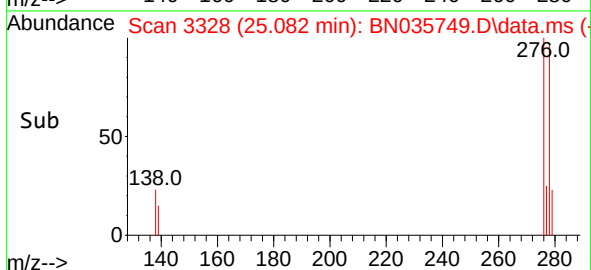
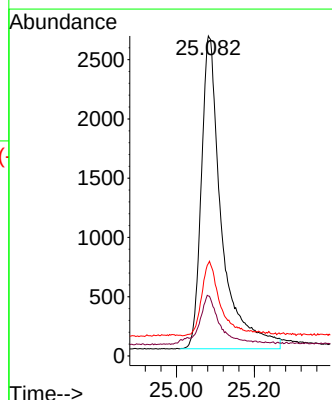
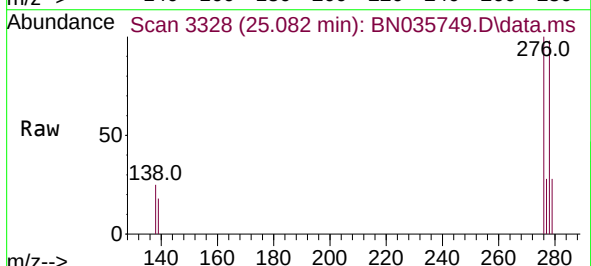
Tgt Ion:278 Resp: 9530

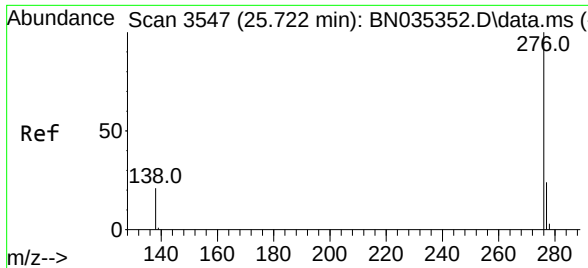
Ion Ratio Lower Upper

278 100

139 18.7 14.2 21.4

279 28.9 20.5 30.7

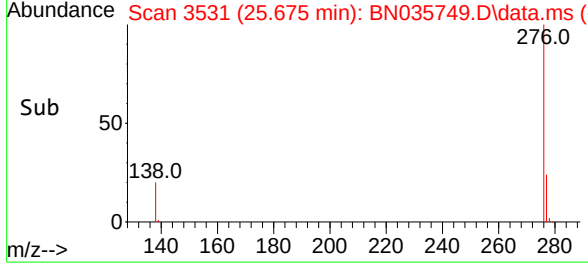
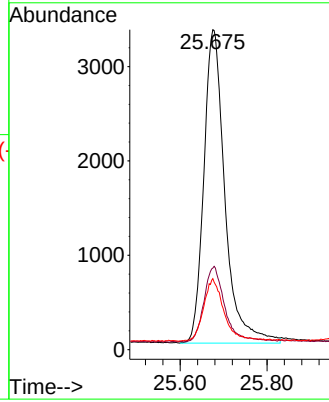
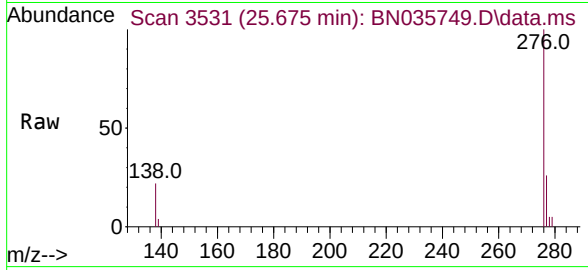




#41  
 Benzo(g,h,i)perylene  
 Concen: 0.438 ng  
 RT: 25.675 min Scan# 31  
 Delta R.T. -0.003 min  
 Lab File: BN035749.D  
 Acq: 20 Dec 2024 19:33

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 276   | Resp: | 11213 |
| Ion      | Ratio | Lower | Upper |
| 276      | 100   |       |       |
| 277      | 25.5  | 19.9  | 29.9  |
| 138      | 22.2  | 17.8  | 26.8  |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN121924\  
 Data File : BN035762.D  
 Acq On : 21 Dec 2024 03:22  
 Operator : RC/JU  
 Sample : P5284-02  
 Misc :  
 ALS Vial : 53 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 RW5-SP201-20241212

Quant Time: Dec 21 04:11:35 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Dec 19 23:06:19 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min)  |
|-------------------------------|--------|------|----------|-------|-------|-----------|
| -----                         |        |      |          |       |       |           |
| Internal Standards            |        |      |          |       |       |           |
| 1) 1,4-Dichlorobenzene-d4     | 7.271  | 152  | 2707     | 0.400 | ng    | 0.00      |
| 7) Naphthalene-d8             | 10.020 | 136  | 6635     | 0.400 | ng    | 0.00      |
| 13) Acenaphthene-d10          | 13.935 | 164  | 4389     | 0.400 | ng    | 0.00      |
| 19) Phenanthrene-d10          | 16.711 | 188  | 8477     | 0.400 | ng    | # 0.01    |
| 29) Chrysene-d12              | 20.956 | 240  | 6852     | 0.400 | ng    | # 0.00    |
| 35) Perylene-d12              | 23.044 | 264  | 6936     | 0.400 | ng    | # 0.00    |
| System Monitoring Compounds   |        |      |          |       |       |           |
| 4) 2-Fluorophenol             | 4.931  | 112  | 947      | 0.140 | ng    | 0.00      |
| 5) Phenol-d6                  | 6.492  | 99   | 458      | 0.056 | ng    | 0.00      |
| 8) Nitrobenzene-d5            | 8.418  | 82   | 1944     | 0.480 | ng    | 0.01      |
| 11) 2-Methylnaphthalene-d10   | 11.631 | 152  | 4128     | 0.398 | ng    | 0.00      |
| 14) 2,4,6-Tribromophenol      | 15.464 | 330  | 599      | 0.192 | ng    | 0.01      |
| 15) 2-Fluorobiphenyl          | 12.549 | 172  | 6078     | 0.366 | ng    | 0.00      |
| 27) Fluoranthene-d10          | 18.761 | 212  | 11121    | 0.463 | ng    | 0.00      |
| 31) Terphenyl-d14             | 19.388 | 244  | 8321     | 0.616 | ng    | 0.00      |
| Target Compounds              |        |      |          |       |       |           |
| 34) Bis(2-ethylhexyl)phtha... | 20.911 | 149  | 428      | 0.045 | ng    | Qvalue 99 |
| -----                         |        |      |          |       |       |           |

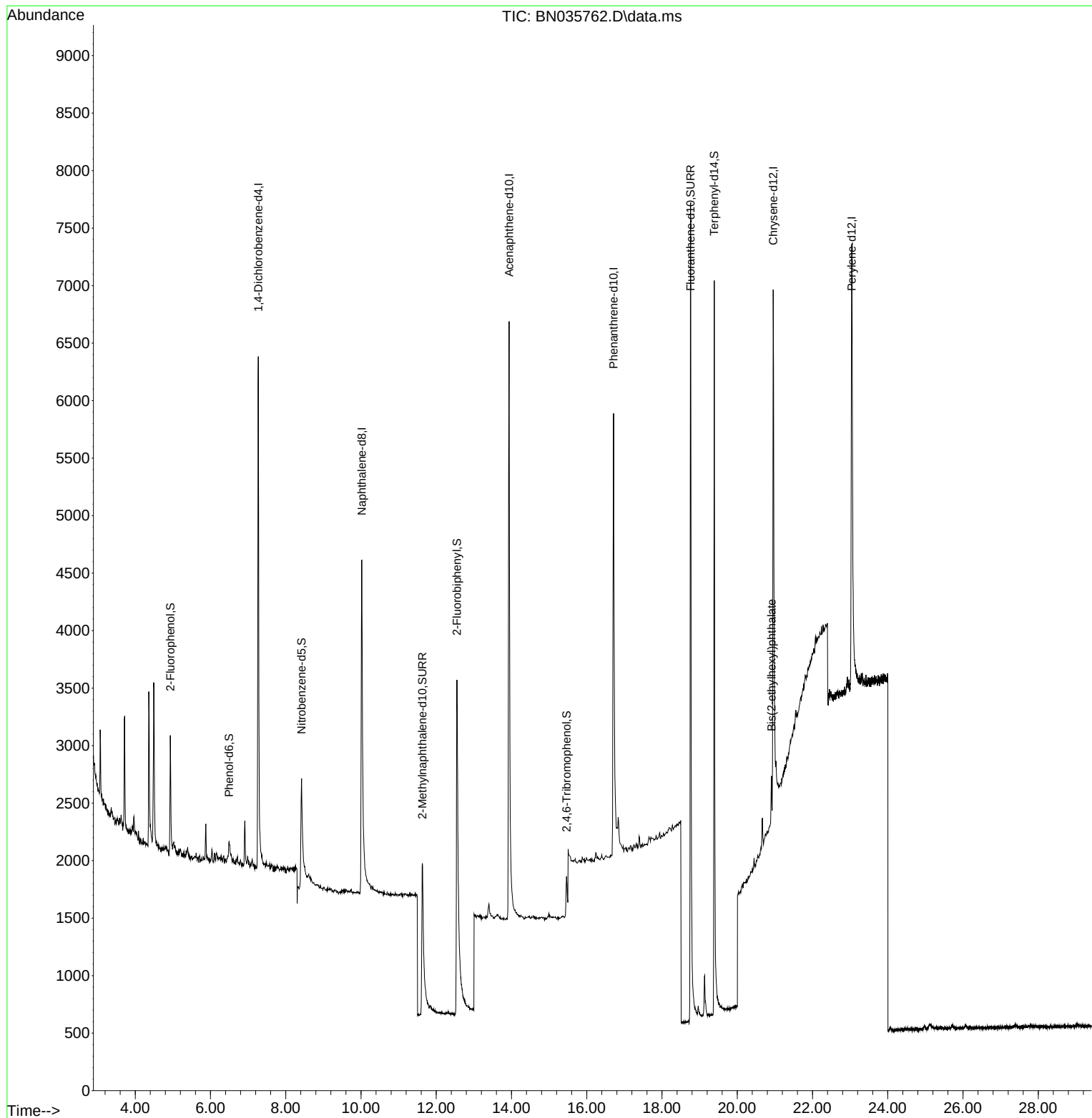
(#) = qualifier out of range (m) = manual integration (+) = signals summed

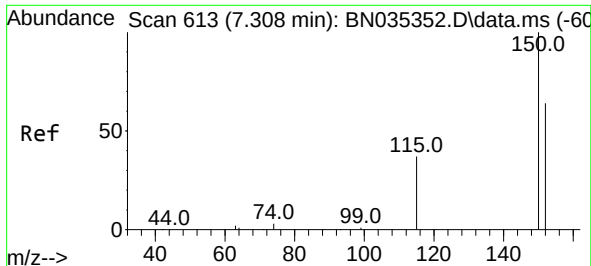


Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN121924\  
Data File : BN035762.D  
Acq On : 21 Dec 2024 03:22  
Operator : RC/JU  
Sample : P5284-02  
Misc :  
ALS Vial : 53 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP201-20241212

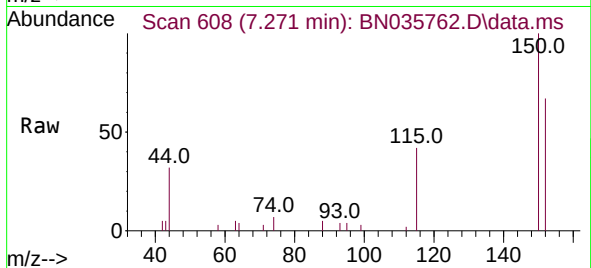
Quant Time: Dec 21 04:11:35 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Dec 19 23:06:19 2024  
Response via : Initial Calibration



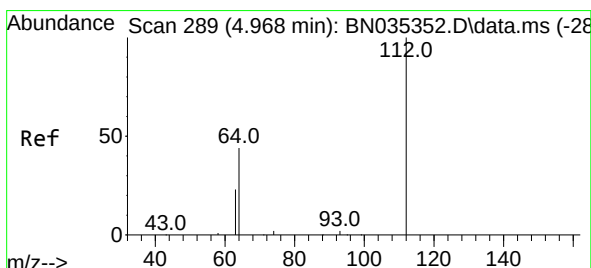
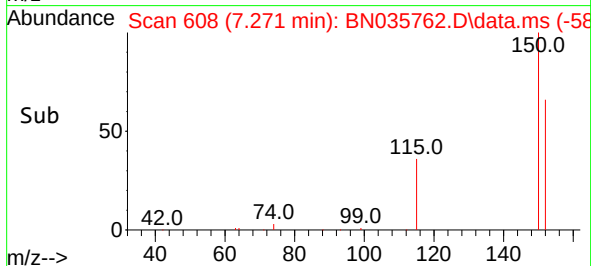
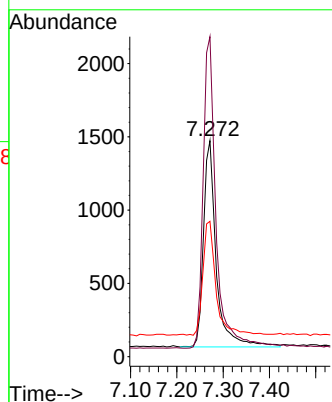


#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.271 min Scan# 613  
Delta R.T. -0.001 min  
Lab File: BN035762.D  
Acq: 21 Dec 2024 03:22

Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP201-20241212

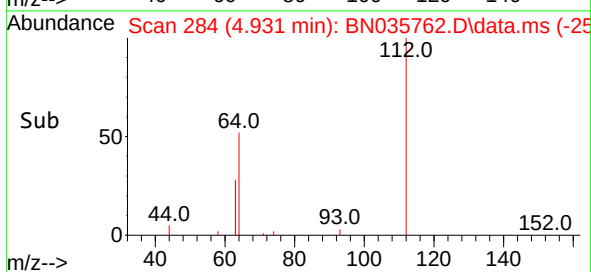
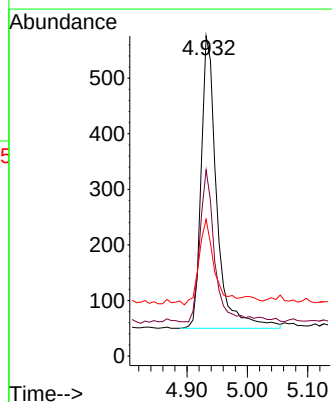
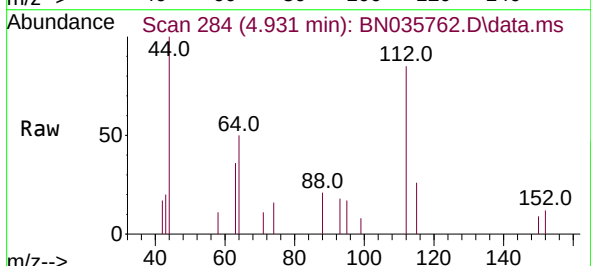


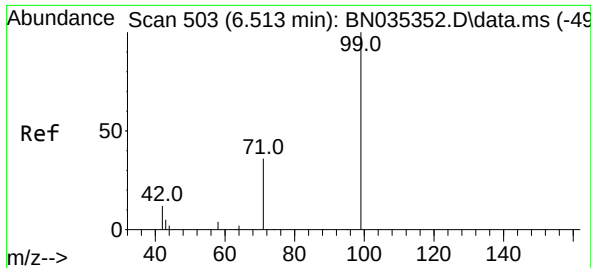
Tgt Ion:152 Resp: 2707  
Ion Ratio Lower Upper  
152 100  
150 148.2 124.0 186.0  
115 62.7 49.6 74.4



#4  
2-Fluorophenol  
Concen: 0.140 ng  
RT: 4.931 min Scan# 284  
Delta R.T. -0.007 min  
Lab File: BN035762.D  
Acq: 21 Dec 2024 03:22

Tgt Ion:112 Resp: 947  
Ion Ratio Lower Upper  
112 100  
64 50.8 39.8 59.8  
63 28.6 21.0 31.6

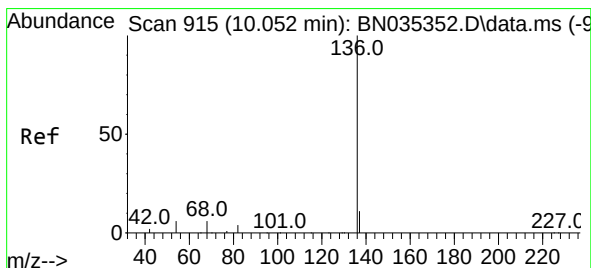
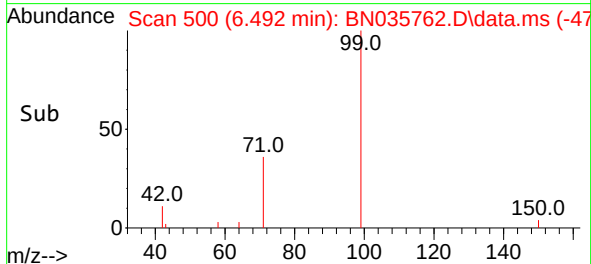
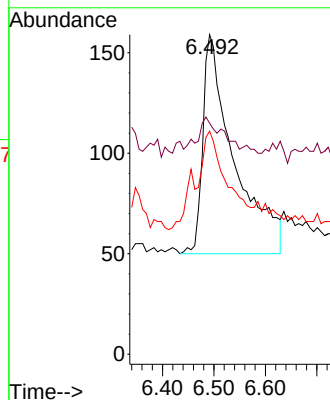
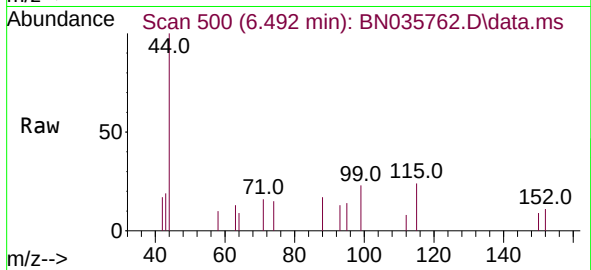




#5  
Phenol-d6  
Concen: 0.056 ng  
RT: 6.492 min Scan# 503  
Delta R.T. -0.000 min  
Lab File: BN035762.D  
Acq: 21 Dec 2024 03:22

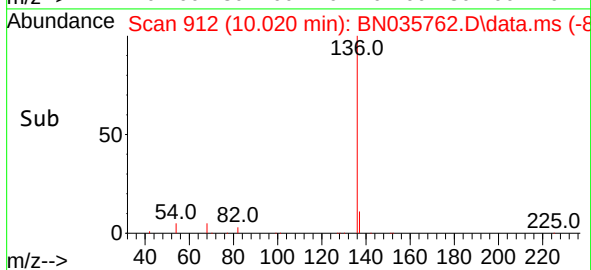
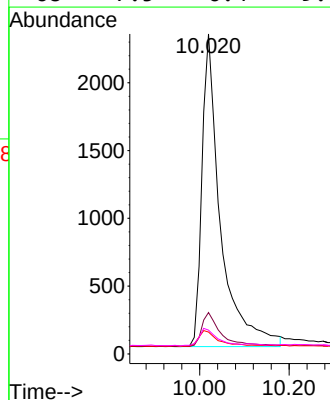
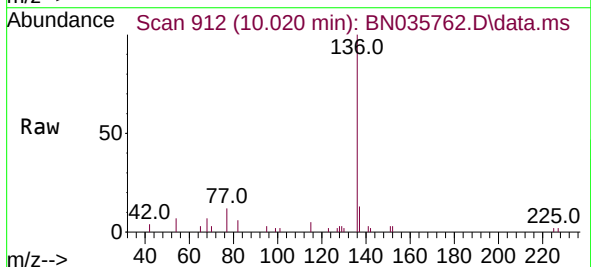
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP201-20241212

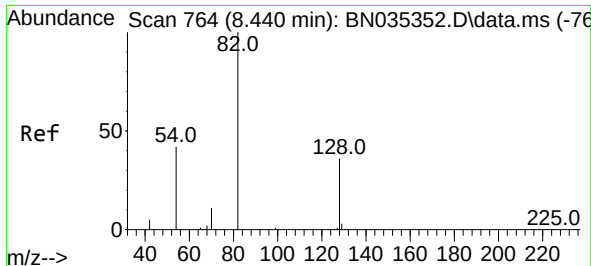
Tgt Ion: 99 Resp: 458  
Ion Ratio Lower Upper  
99 100  
42 10.7 11.4 17.2#  
71 24.9 29.3 43.9#



#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.020 min Scan# 912  
Delta R.T. -0.000 min  
Lab File: BN035762.D  
Acq: 21 Dec 2024 03:22

Tgt Ion: 136 Resp: 6635  
Ion Ratio Lower Upper  
136 100  
137 13.0 10.2 15.2  
54 6.9 6.1 9.1  
68 7.5 6.4 9.6

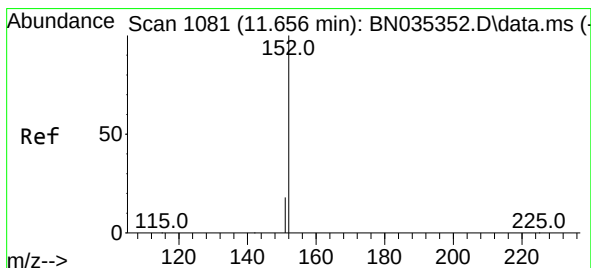
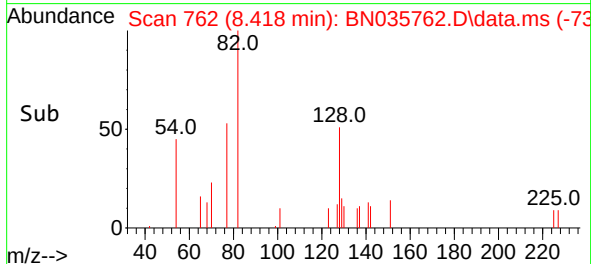
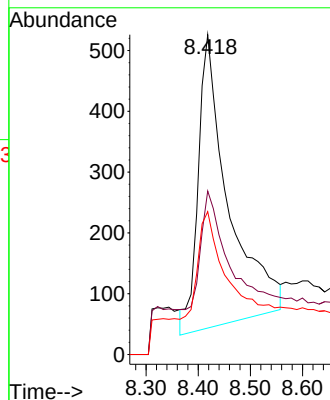
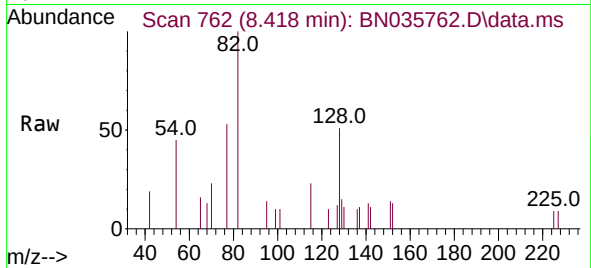




#8  
Nitrobenzene-d5  
Concen: 0.480 ng  
RT: 8.418 min Scan# 70  
Delta R.T. 0.010 min  
Lab File: BN035762.D  
Acq: 21 Dec 2024 03:22

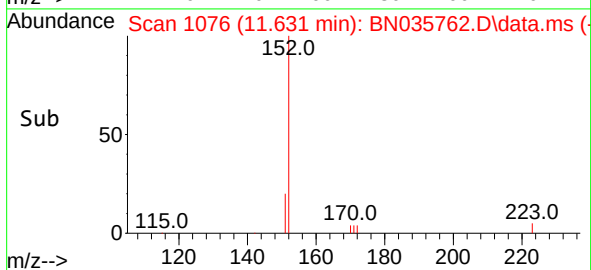
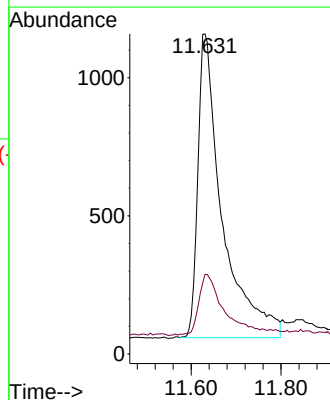
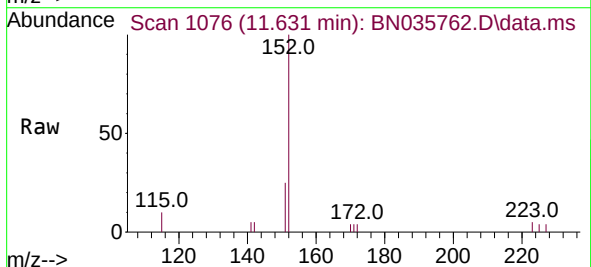
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP201-20241212

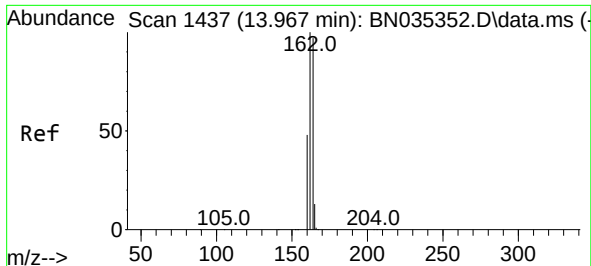
Tgt Ion: 82 Resp: 1944  
Ion Ratio Lower Upper  
82 100  
128 51.1 33.4 50.0#  
54 44.7 36.7 55.1



#11  
2-Methylnaphthalene-d10  
Concen: 0.398 ng  
RT: 11.631 min Scan# 1076  
Delta R.T. 0.010 min  
Lab File: BN035762.D  
Acq: 21 Dec 2024 03:22

Tgt Ion: 152 Resp: 4128  
Ion Ratio Lower Upper  
152 100  
151 20.8 16.6 25.0

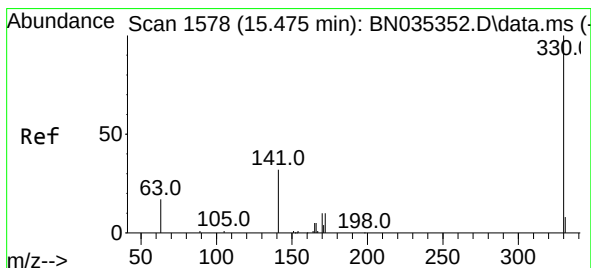
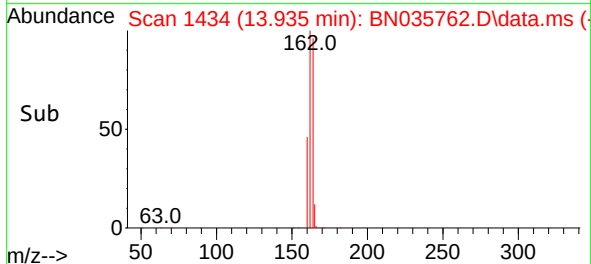
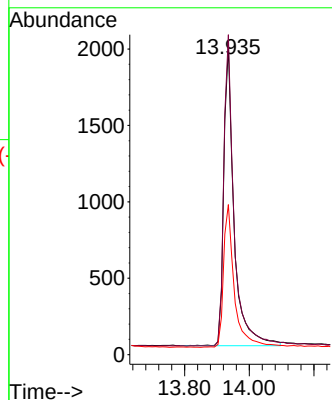
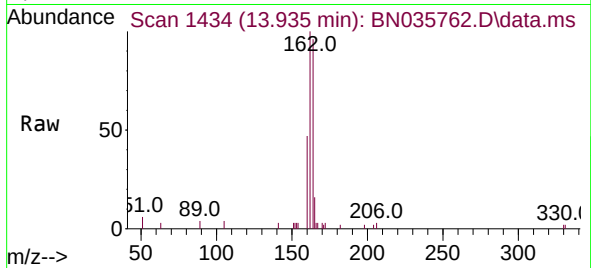




#13  
 Acenaphthene-d10  
 Concen: 0.400 ng  
 RT: 13.935 min Scan# 14  
 Delta R.T. -0.000 min  
 Lab File: BN035762.D  
 Acq: 21 Dec 2024 03:22

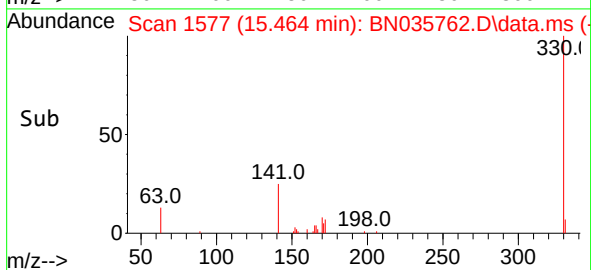
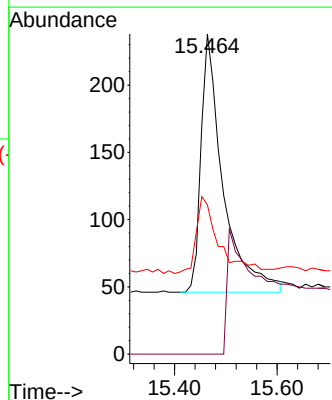
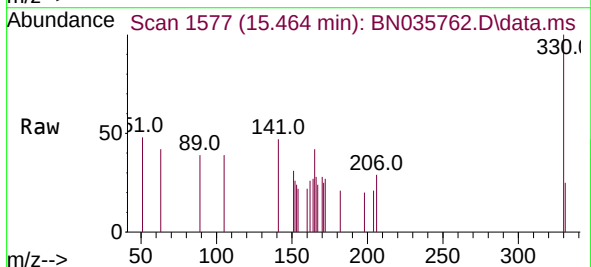
Instrument :  
 BNA\_N  
 ClientSampleId :  
 RW5-SP201-20241212

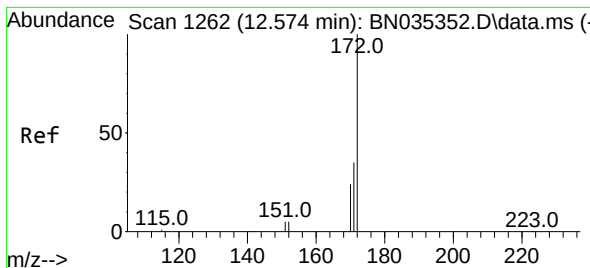
Tgt Ion:164 Resp: 4389  
 Ion Ratio Lower Upper  
 164 100  
 162 104.1 82.2 123.2  
 160 48.8 40.1 60.1



#14  
 2,4,6-Tribromophenol  
 Concen: 0.192 ng  
 RT: 15.464 min Scan# 1577  
 Delta R.T. 0.010 min  
 Lab File: BN035762.D  
 Acq: 21 Dec 2024 03:22

Tgt Ion:330 Resp: 599  
 Ion Ratio Lower Upper  
 330 100  
 332 0.0 0.0 0.0  
 141 30.1 26.6 40.0





#15

2-Fluorobiphenyl

Concen: 0.366 ng

RT: 12.549 min Scan# 1

Delta R.T. 0.005 min

Lab File: BN035762.D

Acq: 21 Dec 2024 03:22

Instrument :

BNA\_N

ClientSampleId :

RW5-SP201-20241212

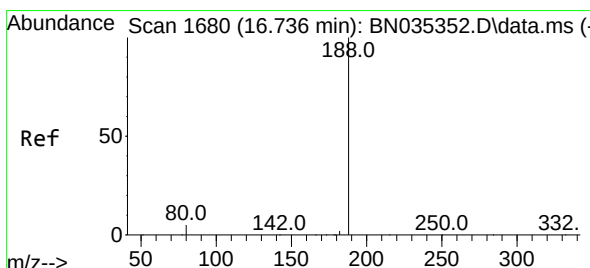
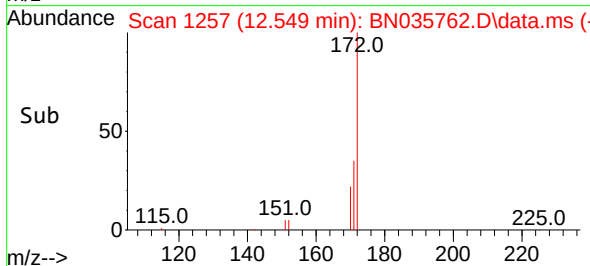
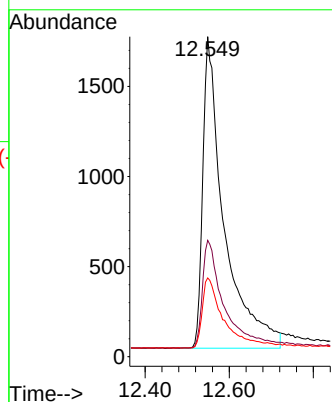
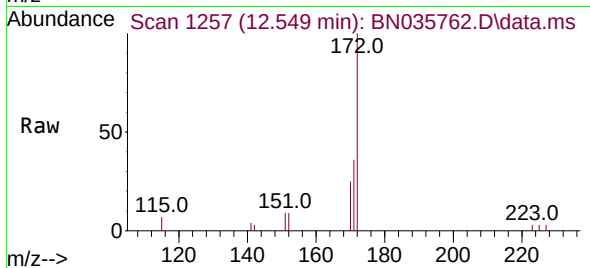
Tgt Ion:172 Resp: 6078

Ion Ratio Lower Upper

172 100

171 36.4 29.0 43.4

170 24.6 19.8 29.8



#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.711 min Scan# 1678

Delta R.T. 0.012 min

Lab File: BN035762.D

Acq: 21 Dec 2024 03:22

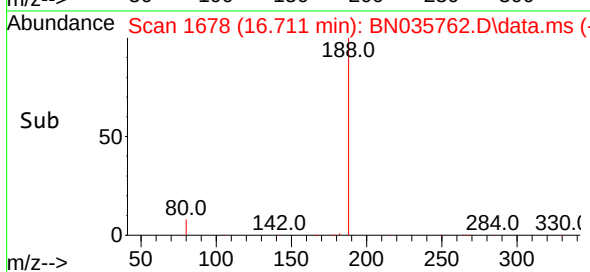
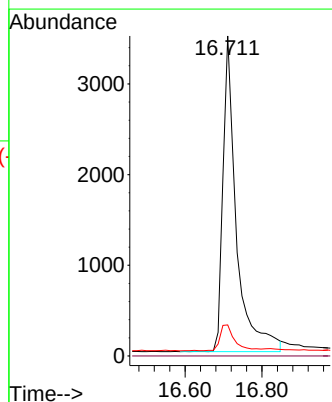
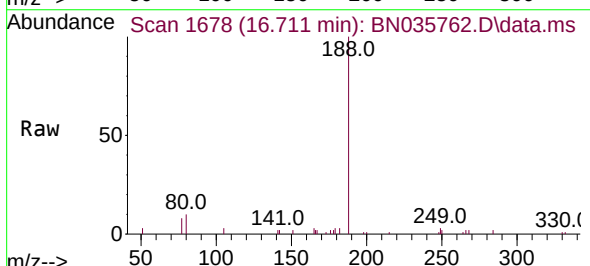
Tgt Ion:188 Resp: 8477

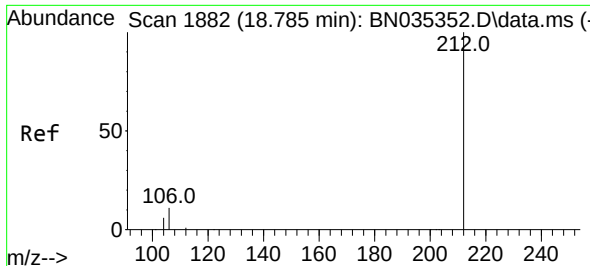
Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.7 4.6 6.8#

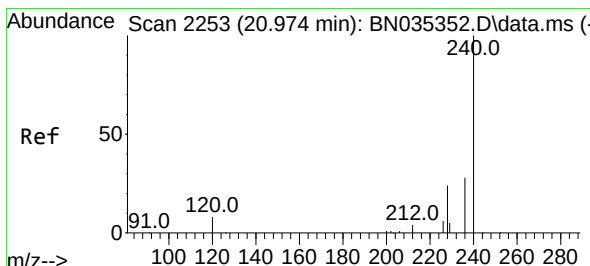
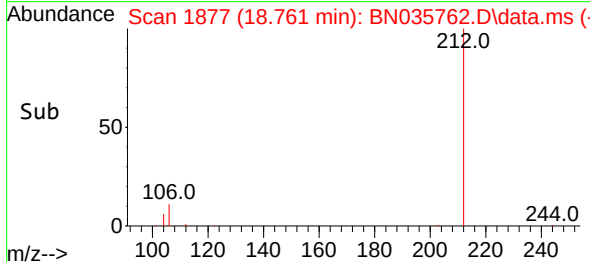
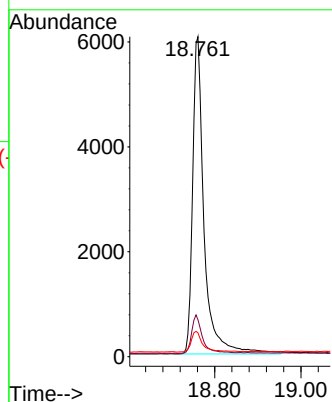
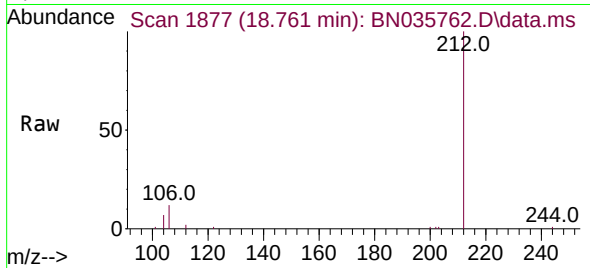




#27  
Fluoranthene-d10  
Concen: 0.463 ng  
RT: 18.761 min Scan# 11121  
Delta R.T. -0.000 min  
Lab File: BN035762.D  
Acq: 21 Dec 2024 03:22

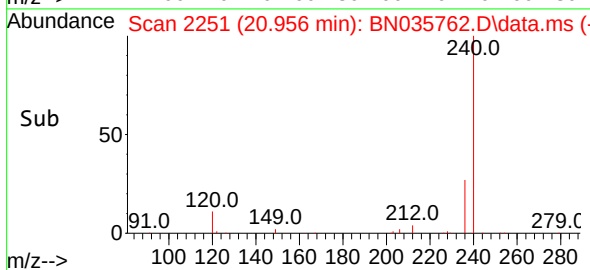
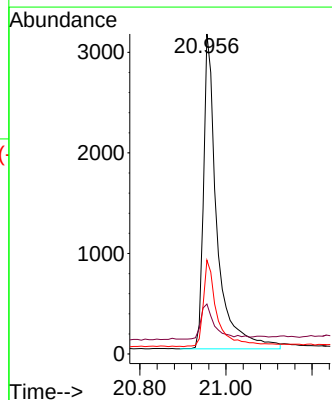
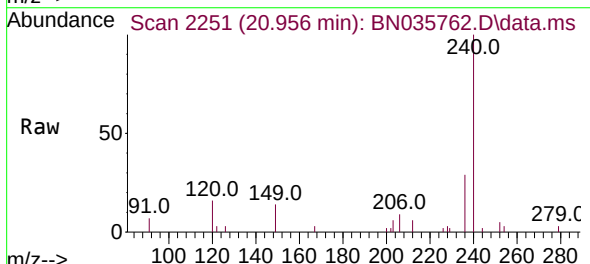
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP201-20241212

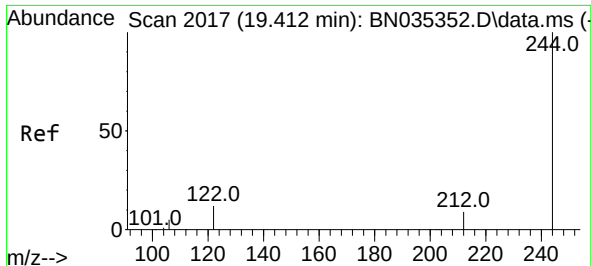
Tgt Ion:212 Resp: 11121  
Ion Ratio Lower Upper  
212 100  
106 11.5 9.2 13.8  
104 6.6 5.3 7.9



#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 20.956 min Scan# 2251  
Delta R.T. -0.000 min  
Lab File: BN035762.D  
Acq: 21 Dec 2024 03:22

Tgt Ion:240 Resp: 6852  
Ion Ratio Lower Upper  
240 100  
120 15.6 7.9 11.9#  
236 29.3 22.9 34.3

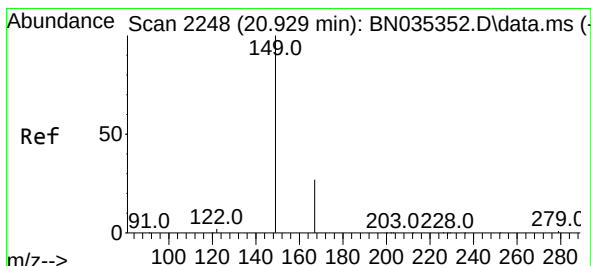
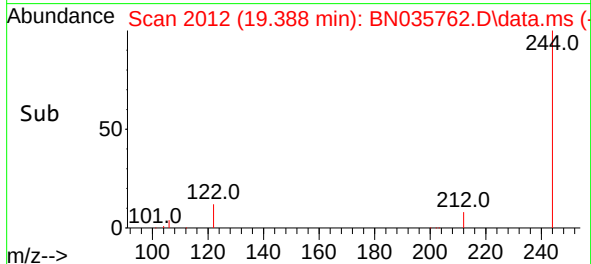
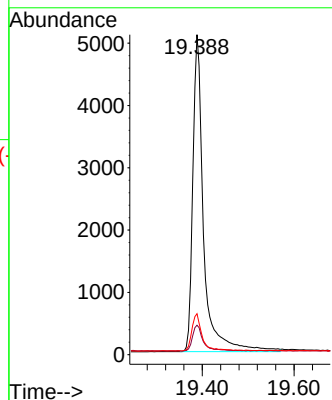
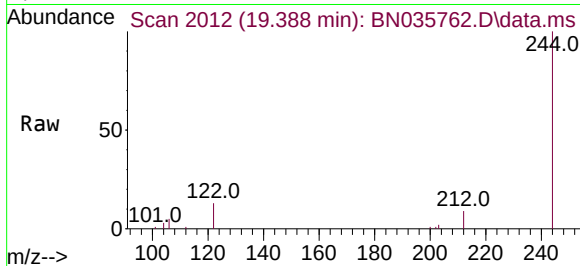




#31  
 Terphenyl-d14  
 Concen: 0.616 ng  
 RT: 19.388 min Scan# 2017  
 Delta R.T. -0.000 min  
 Lab File: BN035762.D  
 Acq: 21 Dec 2024 03:22

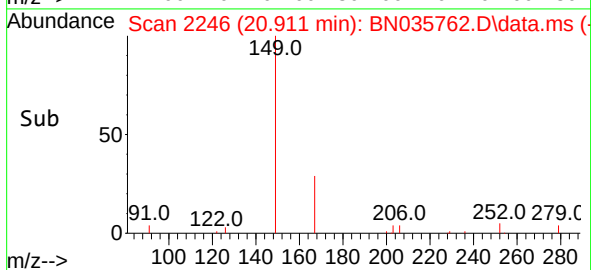
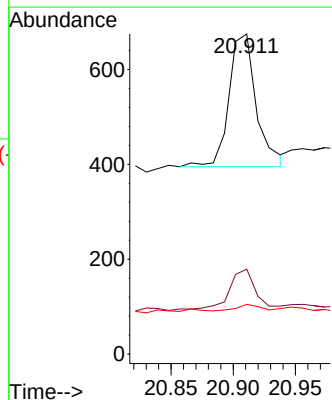
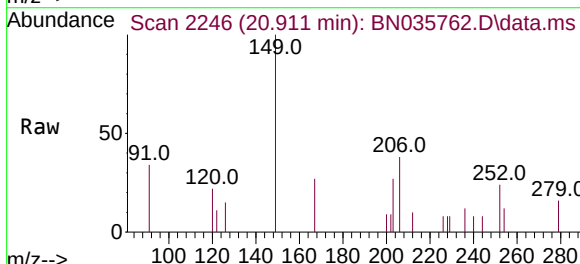
Instrument :  
 BNA\_N  
 ClientSampleId :  
 RW5-SP201-20241212

Tgt Ion:244 Resp: 8321  
 Ion Ratio Lower Upper  
 244 100  
 212 9.2 8.1 12.1  
 122 12.8 10.3 15.5

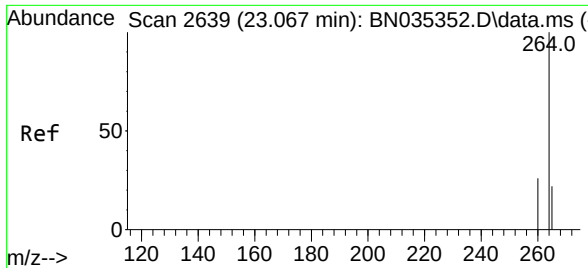


#34  
 Bis(2-ethylhexyl)phthalate  
 Concen: 0.045 ng  
 RT: 20.911 min Scan# 2246  
 Delta R.T. -0.000 min  
 Lab File: BN035762.D  
 Acq: 21 Dec 2024 03:22

Tgt Ion:149 Resp: 428  
 Ion Ratio Lower Upper  
 149 100  
 167 27.6 22.2 33.4  
 279 4.0 2.7 4.1







#35

Perylene-d12

Concen: 0.400 ng

RT: 23.044 min Scan# 20

Delta R.T. 0.003 min

Lab File: BN035762.D

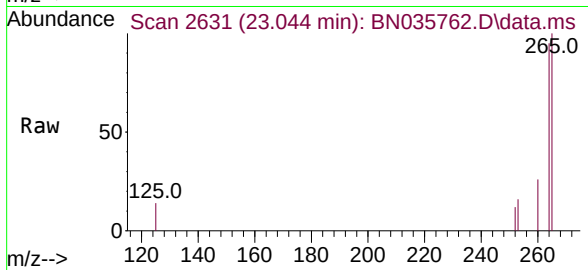
Acq: 21 Dec 2024 03:22

Instrument :

BNA\_N

ClientSampleId :

RW5-SP201-20241212



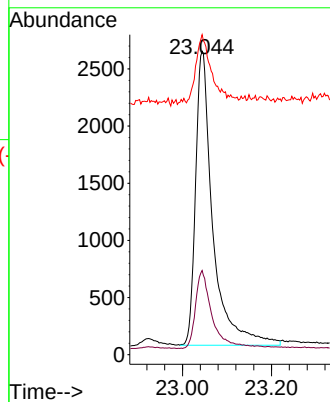
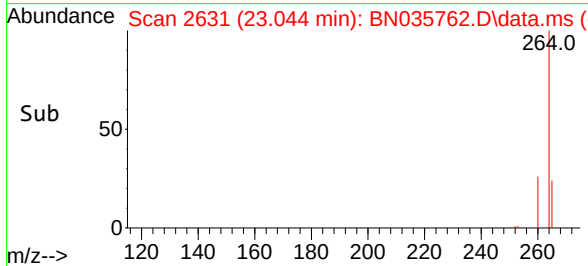
Tgt Ion:264 Resp: 6936

Ion Ratio Lower Upper

264 100

260 27.8 21.4 32.2

265 105.5 40.2 60.4#



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN121924\  
 Data File : BN035763.D  
 Acq On : 21 Dec 2024 03:58  
 Operator : RC/JU  
 Sample : P5284-03  
 Misc :  
 ALS Vial : 54 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 RW5-SP303-20241212

Quant Time: Dec 21 04:27:40 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Dec 19 23:06:19 2024  
 Response via : Initial Calibration

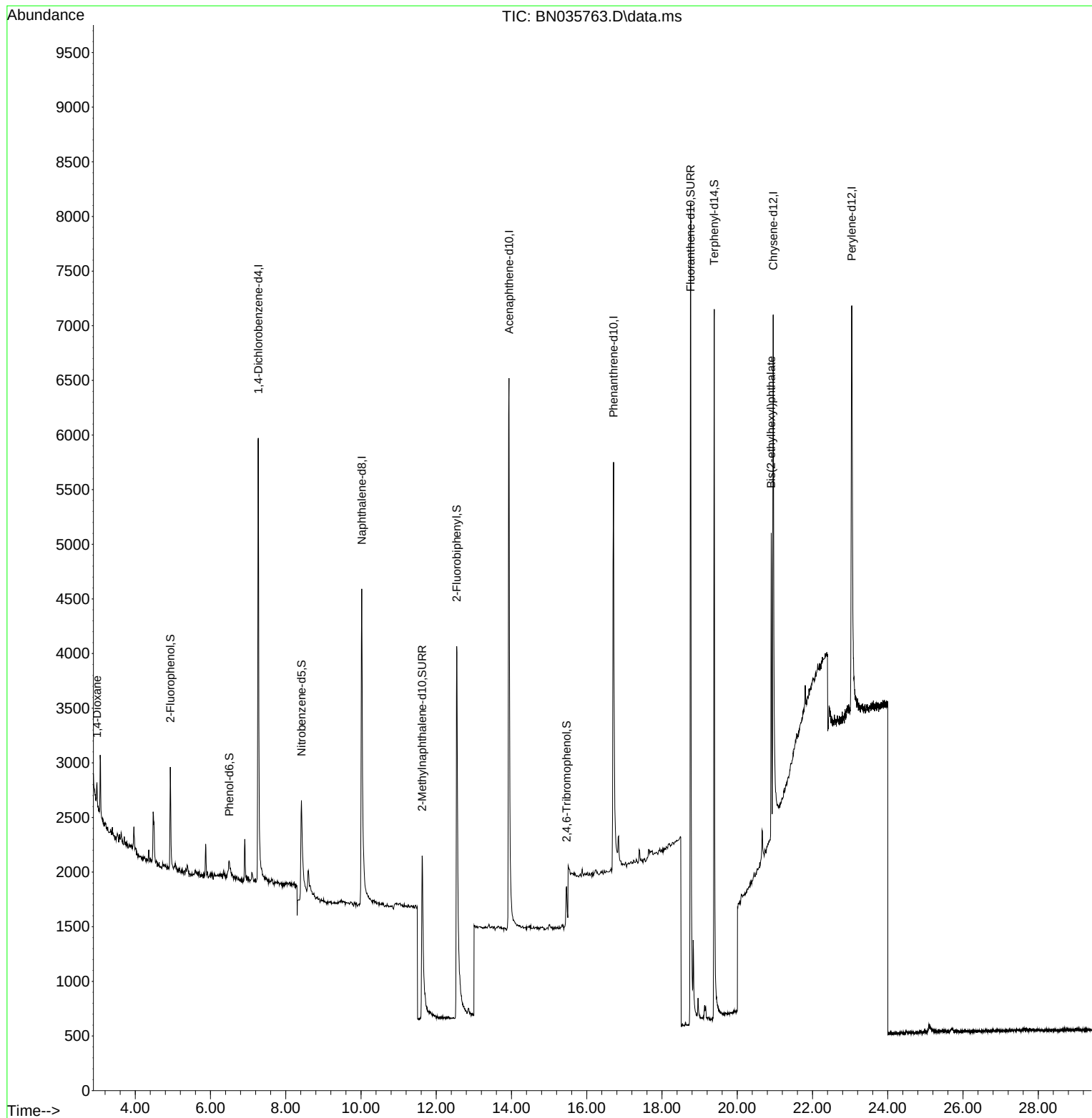
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.272  | 152  | 2594     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.020 | 136  | 6365     | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 13.935 | 164  | 4185     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 16.711 | 188  | 7931     | 0.400 | ng    | # 0.01   |
| 29) Chrysene-d12              | 20.956 | 240  | 6332     | 0.400 | ng    | # 0.00   |
| 35) Perylene-d12              | 23.044 | 264  | 6481     | 0.400 | ng    | # 0.00   |
|                               |        |      |          |       |       |          |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 4.932  | 112  | 889      | 0.137 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.499  | 99   | 447      | 0.057 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.418  | 82   | 1940     | 0.499 | ng    | 0.01     |
| 11) 2-Methylnaphthalene-d10   | 11.626 | 152  | 4201     | 0.422 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.464 | 330  | 570      | 0.192 | ng    | 0.01     |
| 15) 2-Fluorobiphenyl          | 12.544 | 172  | 6215     | 0.393 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 18.761 | 212  | 11188    | 0.498 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.389 | 244  | 8071     | 0.646 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| Target Compounds              |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 2.982  | 88   | 221      | 0.089 | ng    | # 81     |
| 34) Bis(2-ethylhexyl)phtha... | 20.902 | 149  | 2822     | 0.323 | ng    | # 99     |
| -----                         |        |      |          |       |       |          |

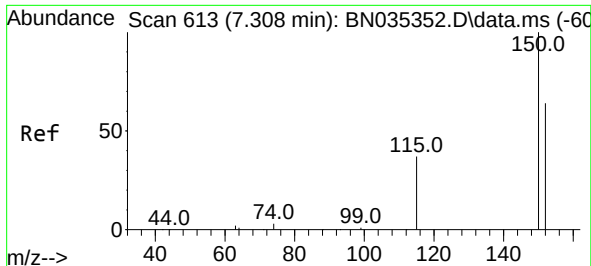
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN121924\  
Data File : BN035763.D  
Acq On : 21 Dec 2024 03:58  
Operator : RC/JU  
Sample : P5284-03  
Misc :  
ALS Vial : 54 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP303-20241212

Quant Time: Dec 21 04:27:40 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Dec 19 23:06:19 2024  
Response via : Initial Calibration

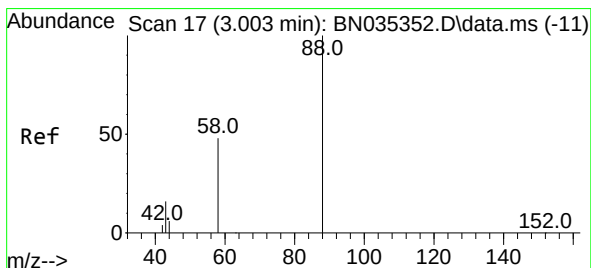
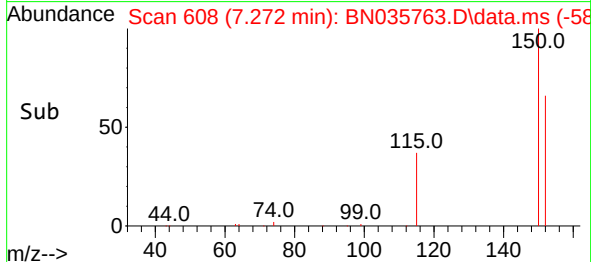
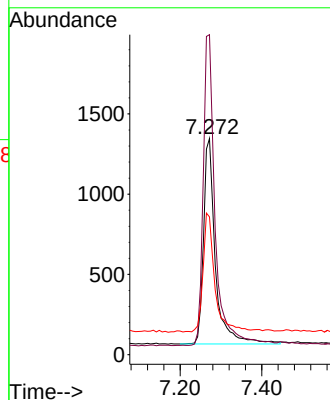
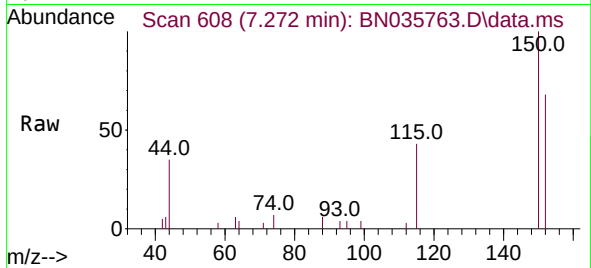




#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.272 min Scan# 613  
Delta R.T. -0.000 min  
Lab File: BN035763.D  
Acq: 21 Dec 2024 03:58

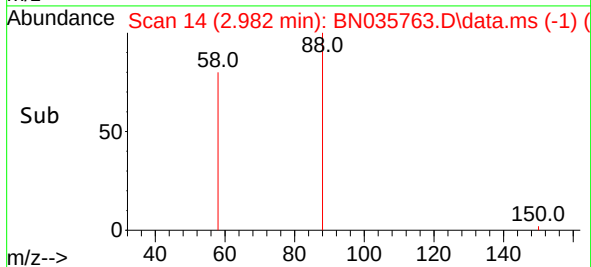
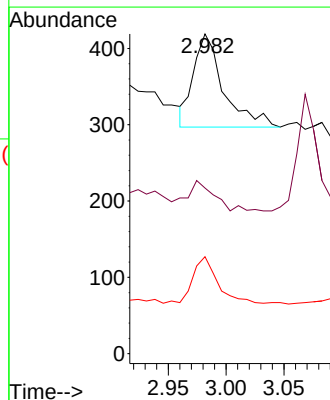
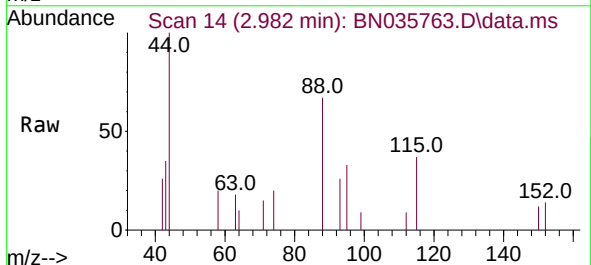
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP303-20241212

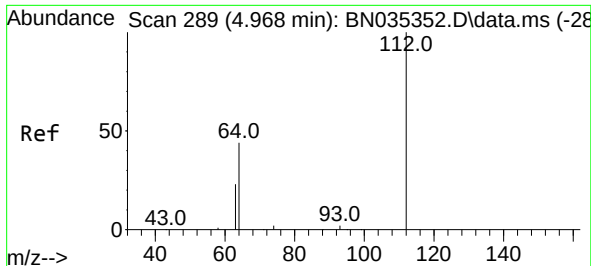
Tgt Ion:152 Resp: 2594  
Ion Ratio Lower Upper  
152 100  
150 148.0 124.0 186.0  
115 63.7 49.6 74.4



#2  
1,4-Dioxane  
Concen: 0.089 ng  
RT: 2.982 min Scan# 14  
Delta R.T. -0.000 min  
Lab File: BN035763.D  
Acq: 21 Dec 2024 03:58

Tgt Ion: 88 Resp: 221  
Ion Ratio Lower Upper  
88 100  
43 29.4 17.2 25.8#  
58 40.7 44.5 66.7#

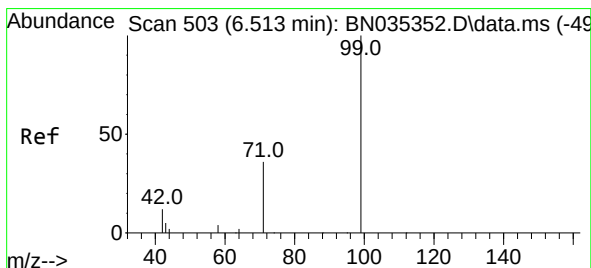
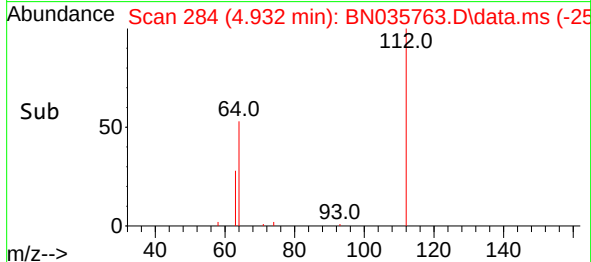
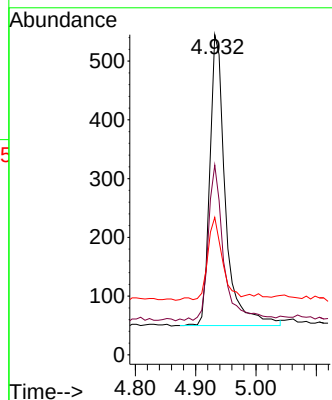
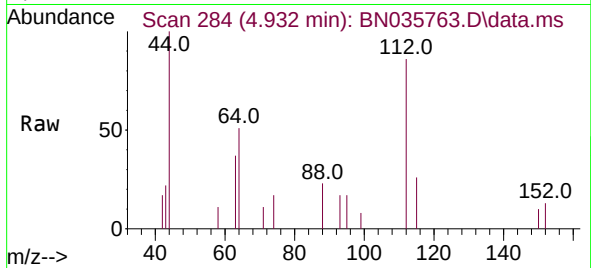




#4  
2-Fluorophenol  
Concen: 0.137 ng  
RT: 4.932 min Scan# 21  
Delta R.T. -0.007 min  
Lab File: BN035763.D  
Acq: 21 Dec 2024 03:58

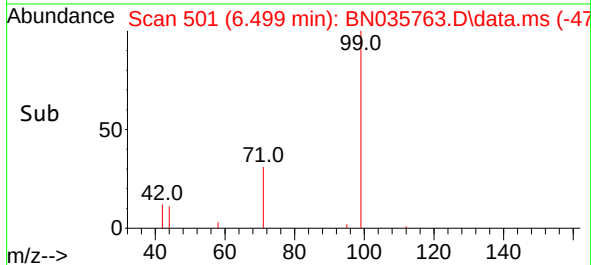
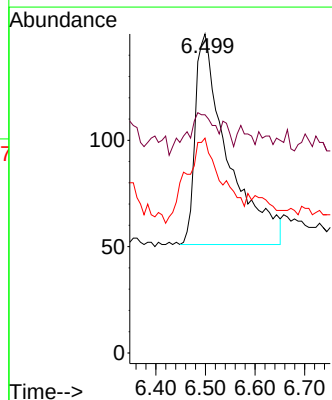
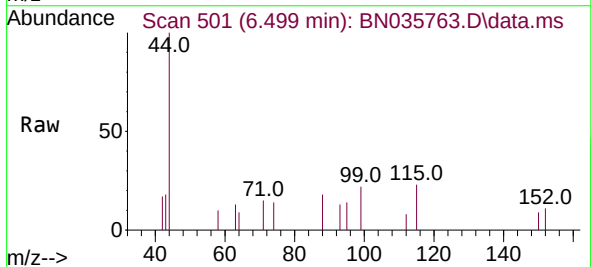
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP303-20241212

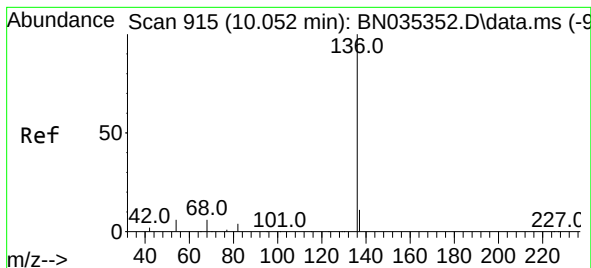
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 53.9  | 39.8  | 59.8  |
| 63      | 26.4  | 21.0  | 31.6  |



#5  
Phenol-d6  
Concen: 0.057 ng  
RT: 6.499 min Scan# 501  
Delta R.T. 0.007 min  
Lab File: BN035763.D  
Acq: 21 Dec 2024 03:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 99      | 100   |       |       |
| 42      | 17.0  | 11.4  | 17.2  |
| 71      | 44.5  | 29.3  | 43.9  |





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.020 min Scan# 915

Delta R.T. -0.000 min

Lab File: BN035763.D

Acq: 21 Dec 2024 03:58

Instrument :

BNA\_N

ClientSampleId :

RW5-SP303-20241212

Tgt Ion:136 Resp: 6365

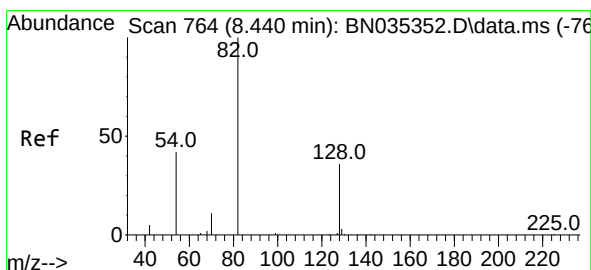
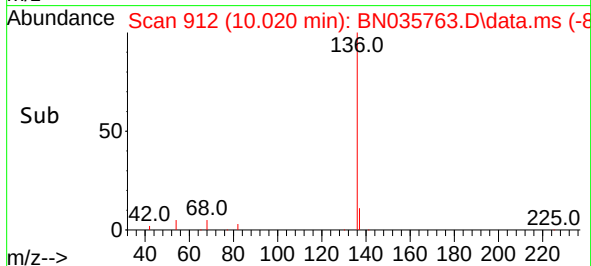
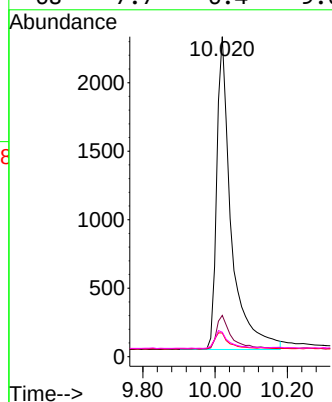
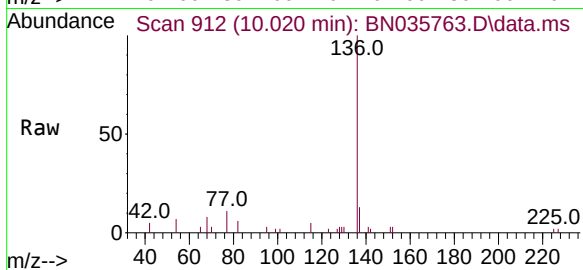
Ion Ratio Lower Upper

136 100

137 12.9 10.2 15.2

54 7.4 6.1 9.1

68 7.7 6.4 9.6



#8

Nitrobenzene-d5

Concen: 0.499 ng

RT: 8.418 min Scan# 762

Delta R.T. 0.011 min

Lab File: BN035763.D

Acq: 21 Dec 2024 03:58

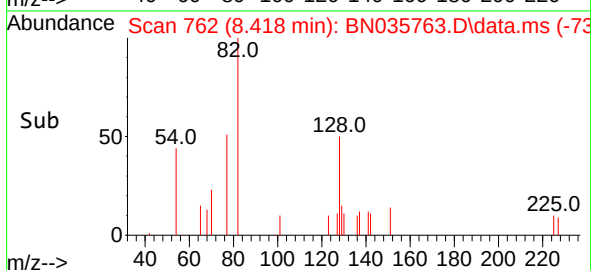
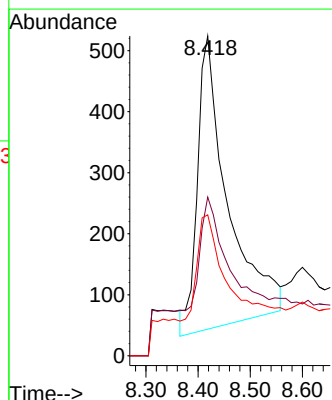
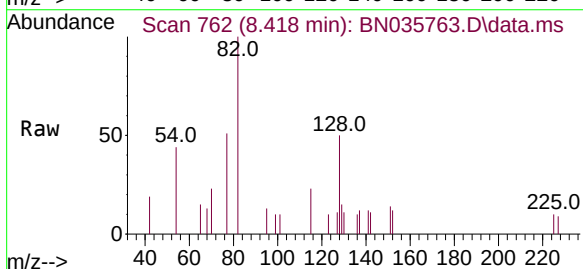
Tgt Ion: 82 Resp: 1940

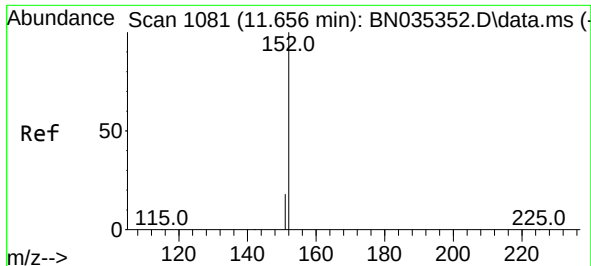
Ion Ratio Lower Upper

82 100

128 49.6 33.4 50.0

54 44.1 36.7 55.1

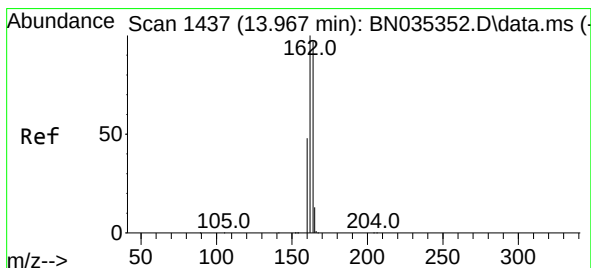
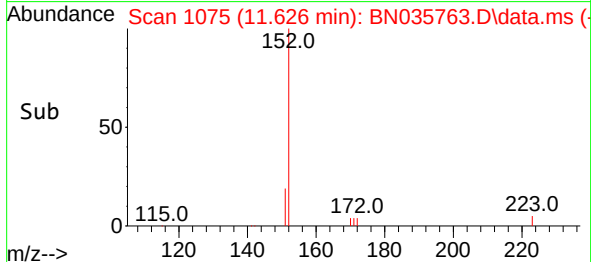
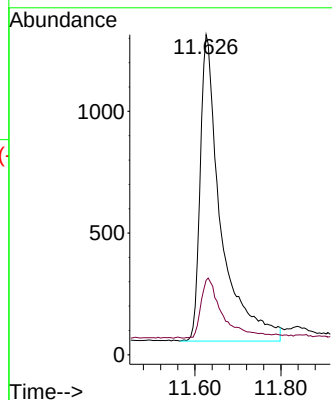
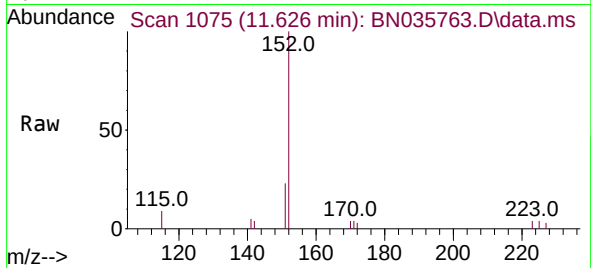




#11  
2-Methylnaphthalene-d10  
Concen: 0.422 ng  
RT: 11.626 min Scan# 1075  
Delta R.T. 0.005 min  
Lab File: BN035763.D  
Acq: 21 Dec 2024 03:58

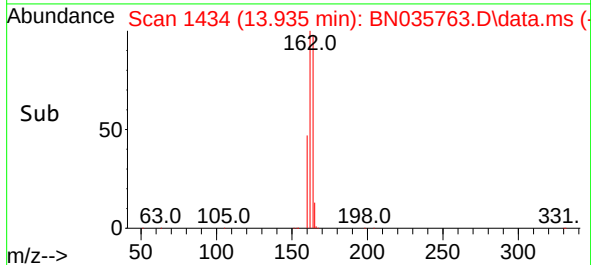
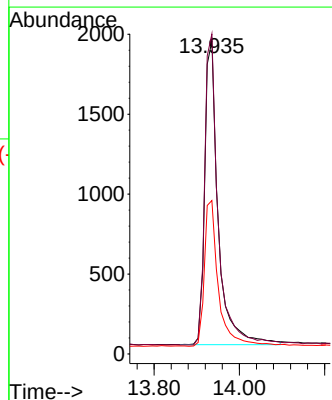
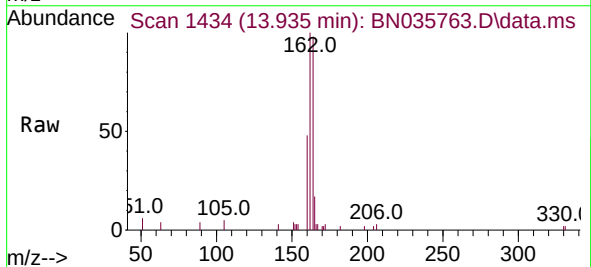
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP303-20241212

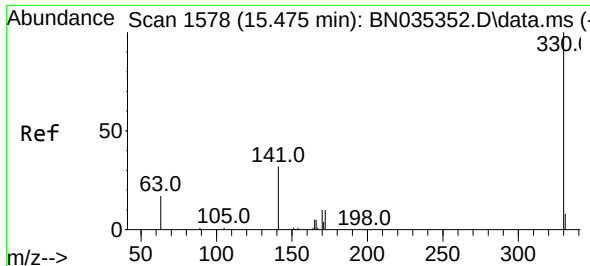
Tgt Ion:152 Resp: 4201  
Ion Ratio Lower Upper  
152 100  
151 20.3 16.6 25.0



#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.935 min Scan# 1434  
Delta R.T. -0.000 min  
Lab File: BN035763.D  
Acq: 21 Dec 2024 03:58

Tgt Ion:164 Resp: 4185  
Ion Ratio Lower Upper  
164 100  
162 102.2 82.2 123.2  
160 49.0 40.1 60.1

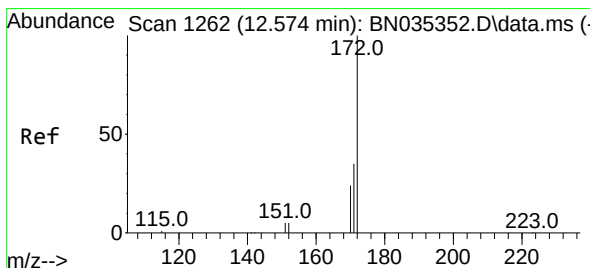
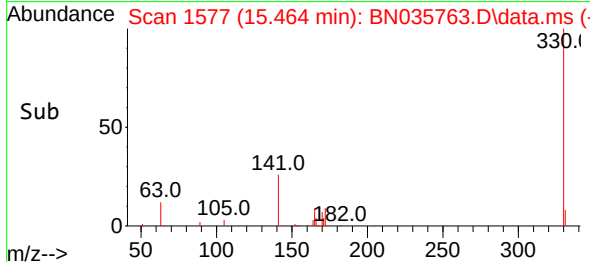
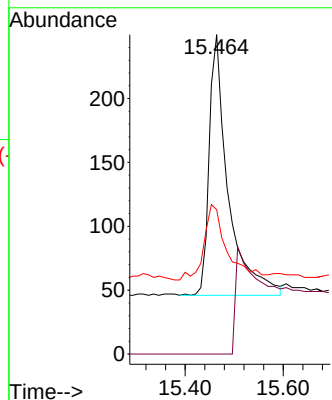
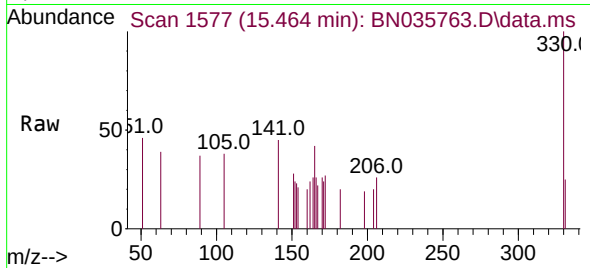




#14  
2,4,6-Tribromophenol  
Concen: 0.192 ng  
RT: 15.464 min Scan# 11  
Delta R.T. 0.011 min  
Lab File: BN035763.D  
Acq: 21 Dec 2024 03:58

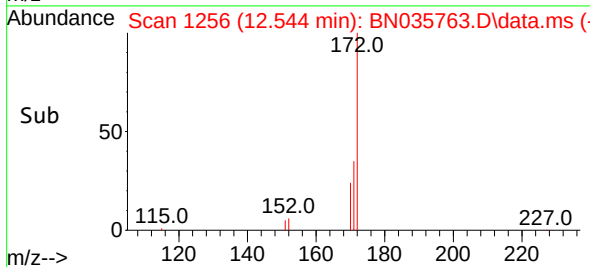
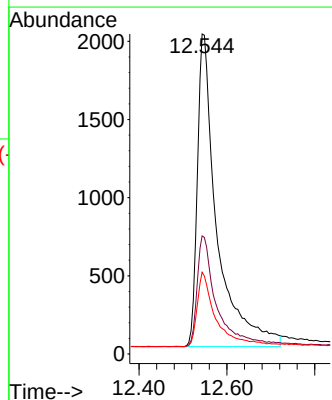
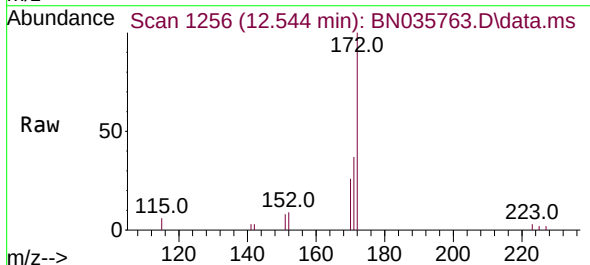
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP303-20241212

Tgt Ion:330 Resp: 570  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 34.9 26.6 40.0

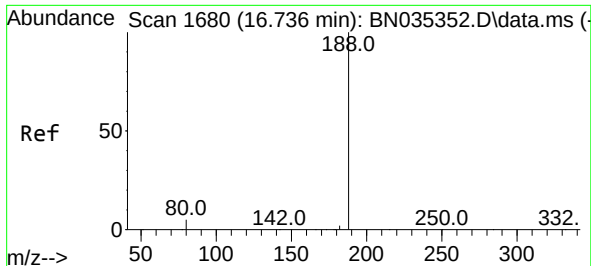


#15  
2-Fluorobiphenyl  
Concen: 0.393 ng  
RT: 12.544 min Scan# 1256  
Delta R.T. -0.000 min  
Lab File: BN035763.D  
Acq: 21 Dec 2024 03:58

Tgt Ion:172 Resp: 6215  
Ion Ratio Lower Upper  
172 100  
171 36.9 29.0 43.4  
170 25.5 19.8 29.8







#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.711 min Scan# 1

Delta R.T. 0.012 min

Lab File: BN035763.D

Acq: 21 Dec 2024 03:58

Instrument :

BNA\_N

ClientSampleId :

RW5-SP303-20241212

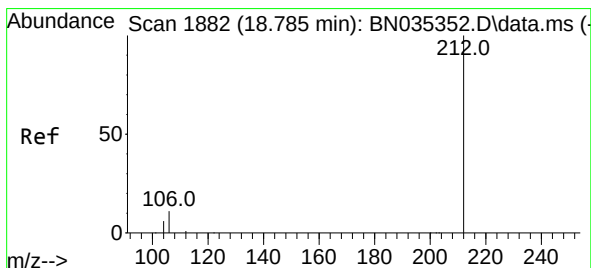
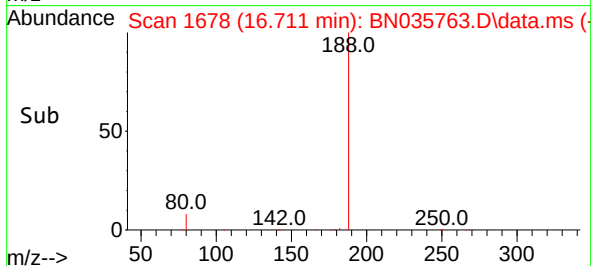
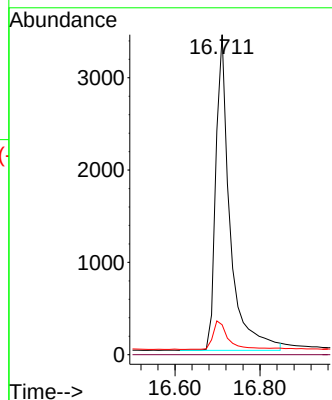
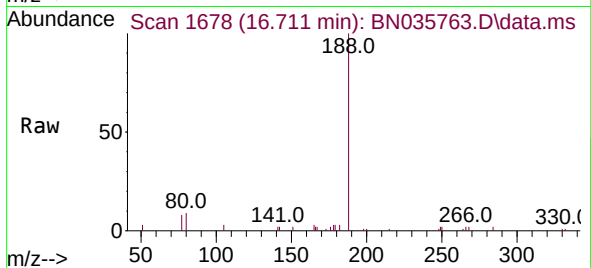
Tgt Ion:188 Resp: 7931

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.3 4.6 6.8#



#27

Fluoranthene-d10

Concen: 0.498 ng

RT: 18.761 min Scan# 1877

Delta R.T. -0.000 min

Lab File: BN035763.D

Acq: 21 Dec 2024 03:58

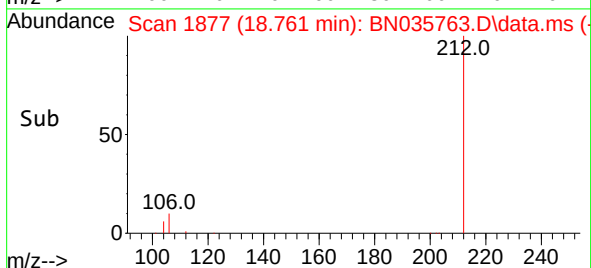
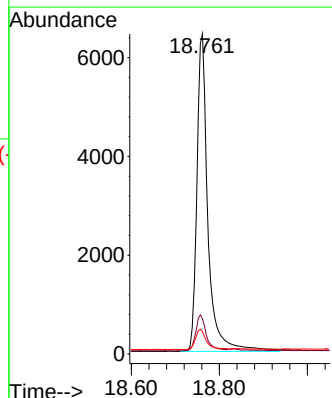
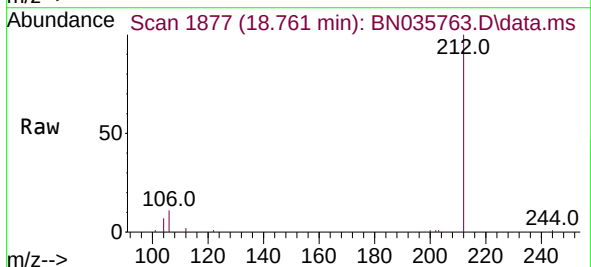
Tgt Ion:212 Resp: 11188

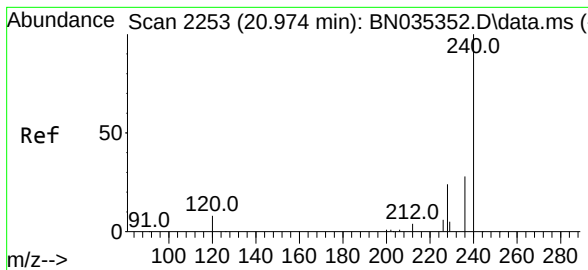
Ion Ratio Lower Upper

212 100

106 11.0 9.2 13.8

104 6.3 5.3 7.9





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.956 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035763.D

Acq: 21 Dec 2024 03:58

Instrument :

BNA\_N

ClientSampleId :

RW5-SP303-20241212

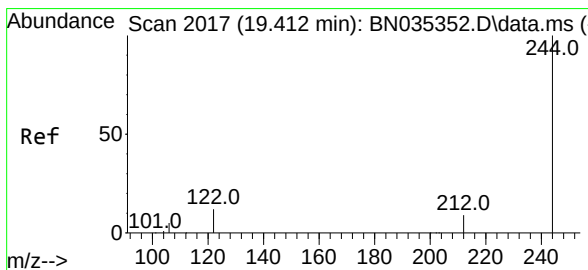
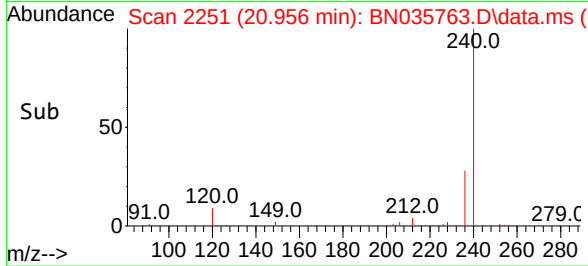
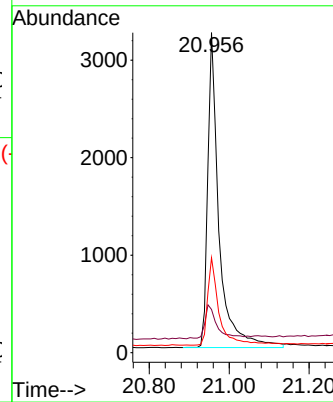
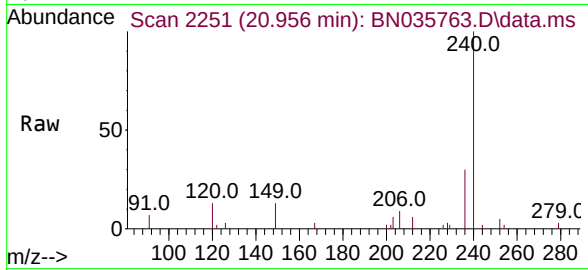
Tgt Ion:240 Resp: 6332

Ion Ratio Lower Upper

240 100

120 13.5 7.9 11.9#

236 29.6 22.9 34.3



#31

Terphenyl-d14

Concen: 0.646 ng

RT: 19.389 min Scan# 2012

Delta R.T. -0.000 min

Lab File: BN035763.D

Acq: 21 Dec 2024 03:58

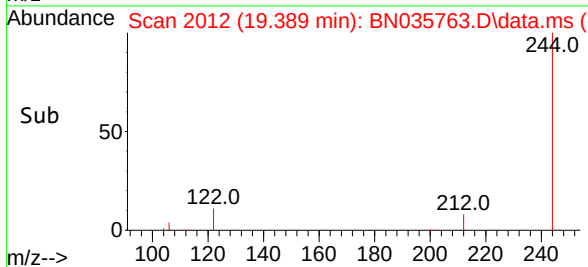
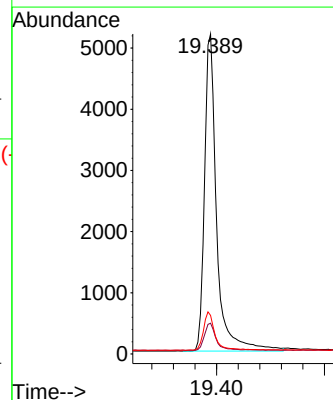
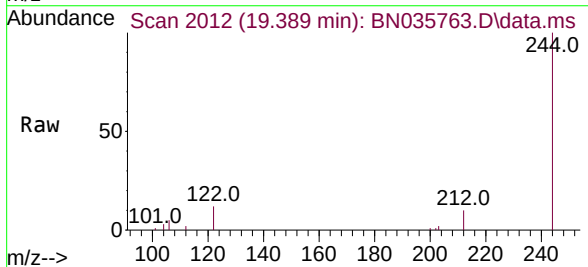
Tgt Ion:244 Resp: 8071

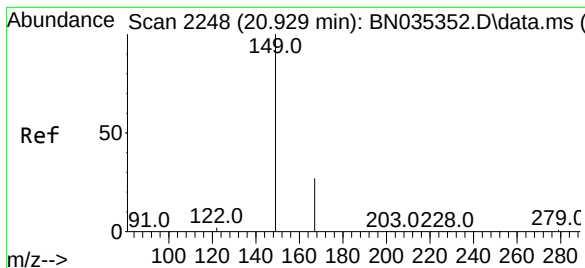
Ion Ratio Lower Upper

244 100

212 9.6 8.1 12.1

122 12.0 10.3 15.5





#34

Bis(2-ethylhexyl)phthalate

Concen: 0.323 ng

RT: 20.902 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035763.D

Acq: 21 Dec 2024 03:58

Instrument :

BNA\_N

ClientSampleId :

RW5-SP303-20241212

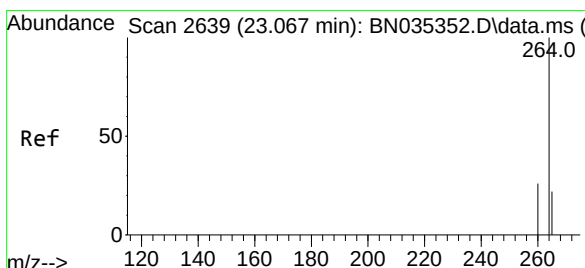
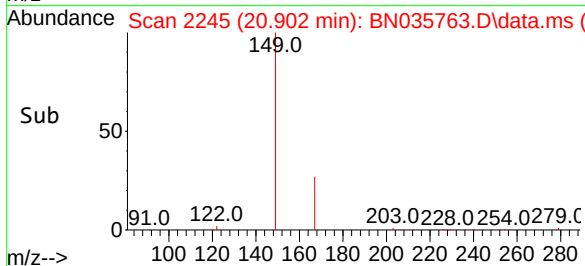
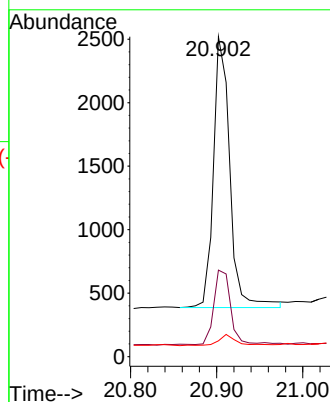
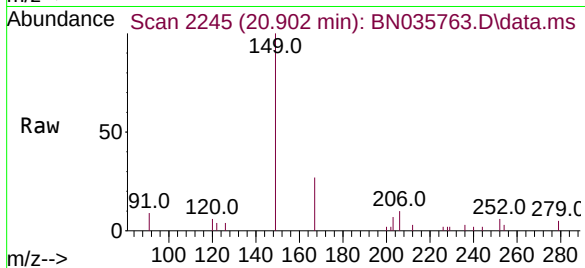
Tgt Ion:149 Resp: 2822

Ion Ratio Lower Upper

149 100

167 27.4 22.2 33.4

279 4.5 2.7 4.1#



#35

Perylene-d12

Concen: 0.400 ng

RT: 23.044 min Scan# 2631

Delta R.T. 0.003 min

Lab File: BN035763.D

Acq: 21 Dec 2024 03:58

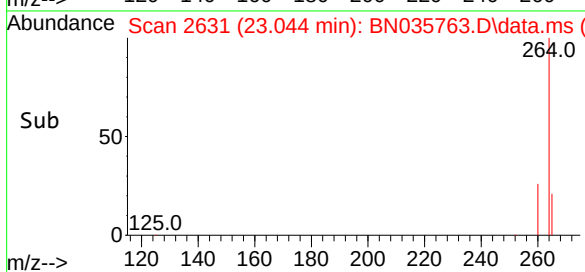
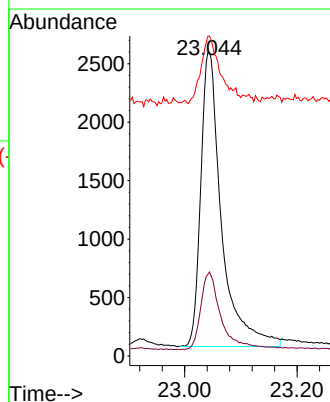
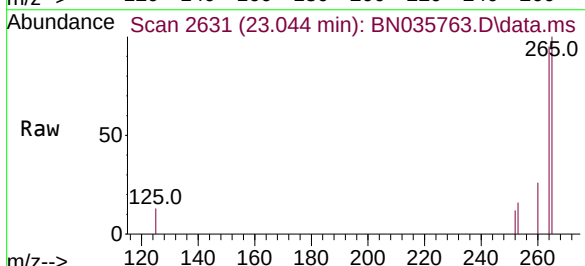
Tgt Ion:264 Resp: 6481

Ion Ratio Lower Upper

264 100

260 27.7 21.4 32.2

265 105.4 40.2 60.4#



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN121924\  
 Data File : BN035765.D  
 Acq On : 21 Dec 2024 05:10  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 56 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4EC

Quant Time: Dec 21 05:39:14 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Dec 19 23:06:19 2024  
 Response via : Initial Calibration

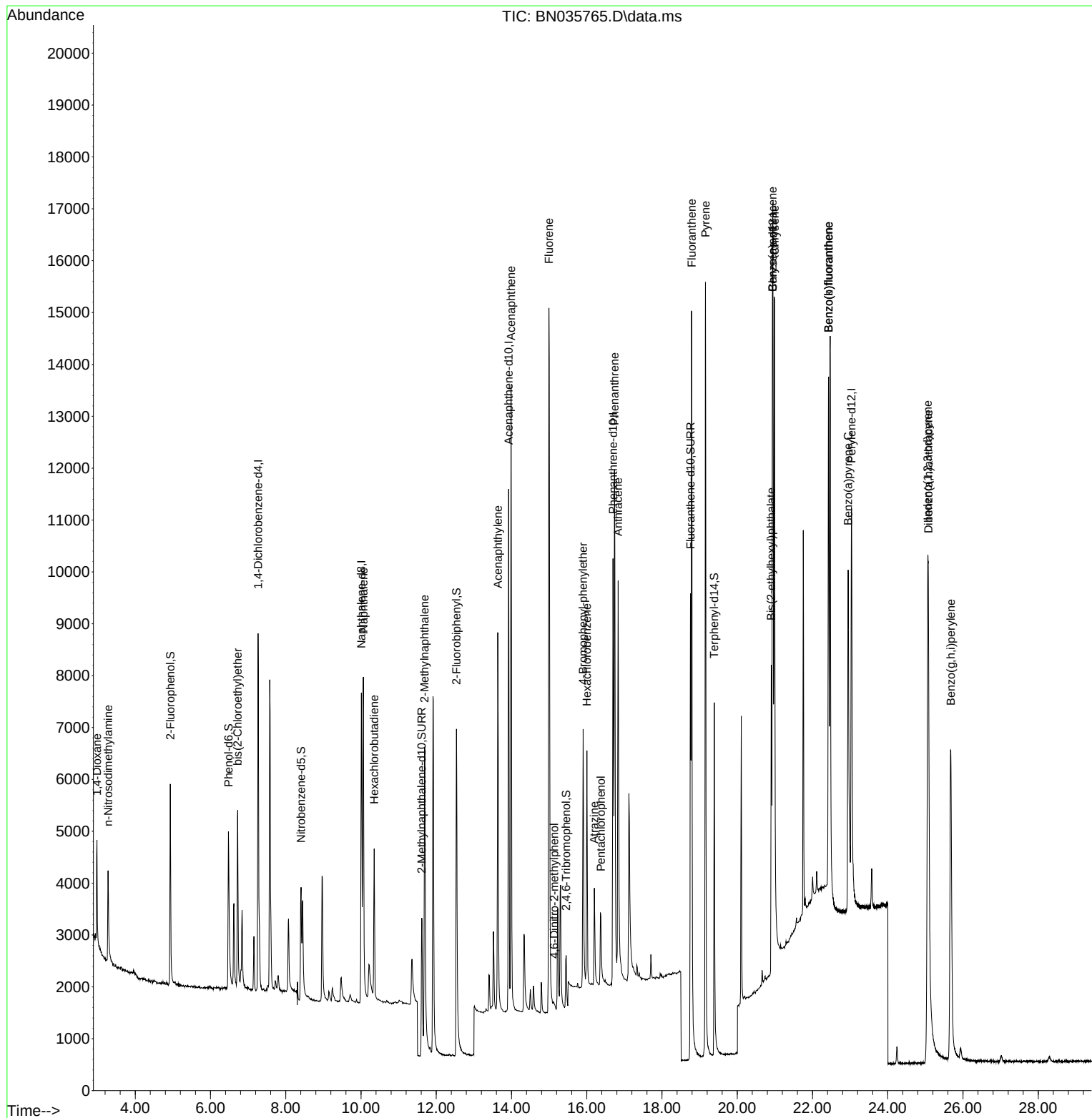
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.264  | 152  | 3545     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.009 | 136  | 9106     | 0.400 | ng    | #-0.01   |
| 13) Acenaphthene-d10          | 13.924 | 164  | 5821     | 0.400 | ng    | -0.01    |
| 19) Phenanthrene-d10          | 16.698 | 188  | 12321    | 0.400 | ng    | # 0.00   |
| 29) Chrysene-d12              | 20.947 | 240  | 9836     | 0.400 | ng    | # 0.00   |
| 35) Perylene-d12              | 23.035 | 264  | 10740    | 0.400 | ng    | # 0.00   |
|                               |        |      |          |       |       |          |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 4.932  | 112  | 3403     | 0.384 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.477  | 99   | 3879     | 0.364 | ng    | -0.01    |
| 8) Nitrobenzene-d5            | 8.408  | 82   | 2756     | 0.496 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.616 | 152  | 5263     | 0.369 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.453 | 330  | 1253     | 0.303 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.538 | 172  | 8084     | 0.367 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 18.757 | 212  | 12191    | 0.349 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.388 | 244  | 8488     | 0.437 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| Target Compounds              |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 2.982  | 88   | 1555     | 0.459 | ng    | 96       |
| 3) n-Nitrosodimethylamine     | 3.278  | 42   | 1104     | 0.391 | ng    | # 93     |
| 6) bis(2-Chloroethyl)ether    | 6.723  | 93   | 3165     | 0.353 | ng    | 98       |
| 9) Naphthalene                | 10.063 | 128  | 9097     | 0.379 | ng    | 100      |
| 10) Hexachlorobutadiene       | 10.351 | 225  | 2300     | 0.415 | ng    | # 99     |
| 12) 2-Methylnaphthalene       | 11.692 | 142  | 6016     | 0.350 | ng    | 99       |
| 16) Acenaphthylene            | 13.636 | 152  | 8764     | 0.359 | ng    | 99       |
| 17) Acenaphthene              | 13.989 | 154  | 6047     | 0.373 | ng    | 98       |
| 18) Fluorene                  | 14.993 | 166  | 7942     | 0.342 | ng    | 100      |
| 20) 4,6-Dinitro-2-methylph... | 15.132 | 198  | 142      | 0.117 | ng    | # 1      |
| 21) 4-Bromophenyl-phenylether | 15.904 | 248  | 2531     | 0.351 | ng    | # 83     |
| 22) Hexachlorobenzene         | 16.003 | 284  | 3667     | 0.433 | ng    | 97       |
| 23) Atrazine                  | 16.202 | 200  | 1895     | 0.369 | ng    | 96       |
| 24) Pentachlorophenol         | 16.376 | 266  | 1177     | 0.320 | ng    | # 86     |
| 25) Phenanthrene              | 16.735 | 178  | 12350    | 0.365 | ng    | 99       |
| 26) Anthracene                | 16.835 | 178  | 10612    | 0.347 | ng    | 99       |
| 28) Fluoranthene              | 18.789 | 202  | 15375    | 0.337 | ng    | 99       |
| 30) Pyrene                    | 19.156 | 202  | 15587    | 0.429 | ng    | 100      |
| 32) Benzo(a)anthracene        | 20.938 | 228  | 11659    | 0.339 | ng    | 100      |
| 33) Chrysene                  | 20.991 | 228  | 14263    | 0.402 | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 20.902 | 149  | 5697     | 0.419 | ng    | 99       |
| 36) Indeno(1,2,3-cd)pyrene    | 25.064 | 276  | 15666    | 0.373 | ng    | 99       |
| 37) Benzo(b)fluoranthene      | 22.427 | 252  | 19003    | 0.484 | ng    | 98       |
| 38) Benzo(k)fluoranthene      | 22.427 | 252  | 19003    | 0.491 | ng    | 99       |
| 39) Benzo(a)pyrene            | 22.947 | 252  | 11742    | 0.363 | ng    | 94       |
| 40) Dibenzo(a,h)anthracene    | 25.079 | 278  | 11661    | 0.352 | ng    | 97       |
| 41) Benzo(g,h,i)perylene      | 25.675 | 276  | 14236    | 0.411 | ng    | 99       |
| -----                         |        |      |          |       |       |          |

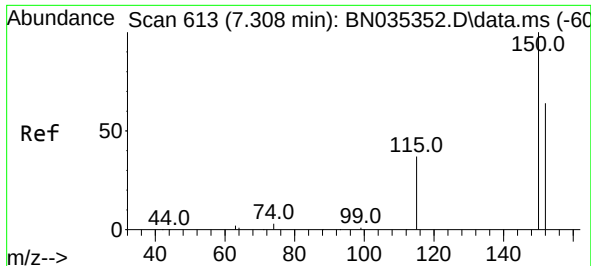
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN035765.D  
Acq On : 21 Dec 2024 05:10  
Operator : RC/JU  
Sample : SSTDCCC0.4  
Misc :  
ALS Vial : 56 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

Quant Time: Dec 21 05:39:14 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Dec 19 23:06:19 2024  
Response via : Initial Calibration

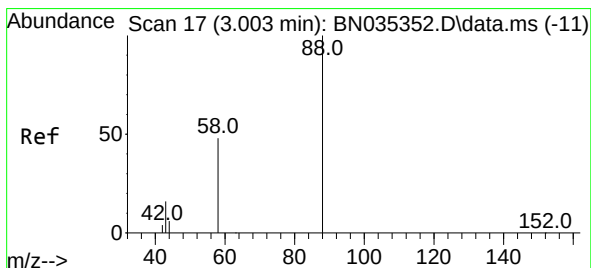
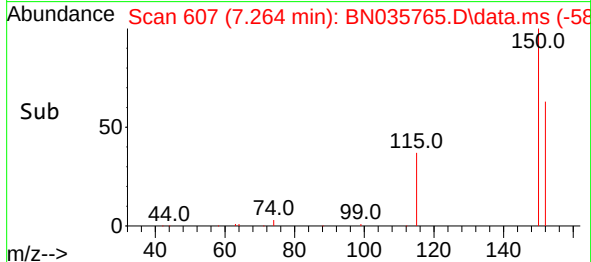
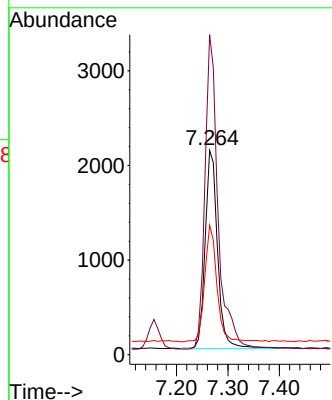
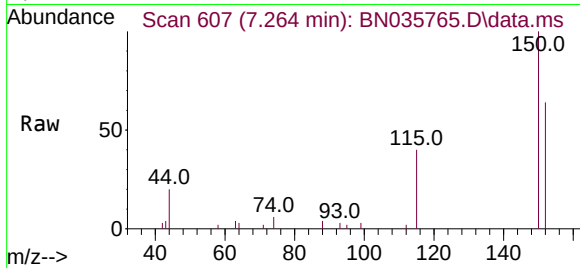




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 0.400 ng  
 RT: 7.264 min Scan# 613  
 Delta R.T. -0.008 min  
 Lab File: BN035765.D  
 Acq: 21 Dec 2024 05:10

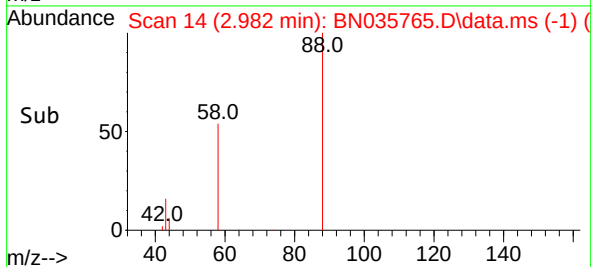
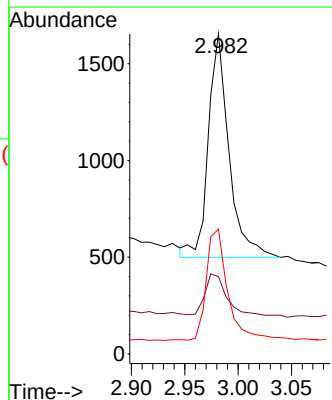
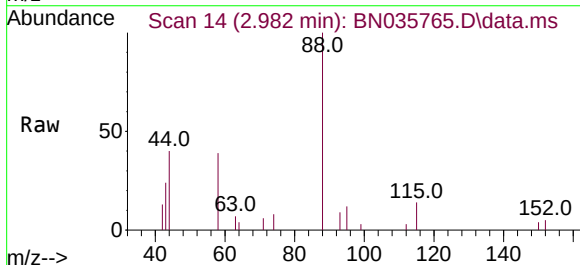
Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4EC

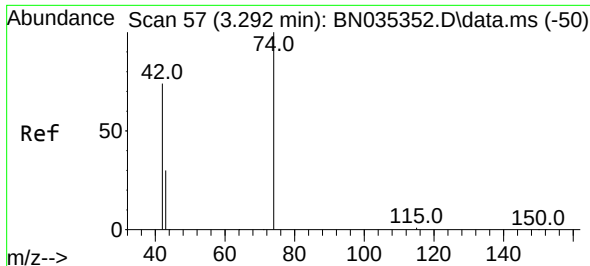
Tgt Ion:152 Resp: 3545  
 Ion Ratio Lower Upper  
 152 100  
 150 156.6 124.0 186.0  
 115 63.3 49.6 74.4



#2  
 1,4-Dioxane  
 Concen: 0.459 ng  
 RT: 2.982 min Scan# 14  
 Delta R.T. -0.000 min  
 Lab File: BN035765.D  
 Acq: 21 Dec 2024 05:10

Tgt Ion: 88 Resp: 1555  
 Ion Ratio Lower Upper  
 88 100  
 43 22.1 17.2 25.8  
 58 52.2 44.5 66.7

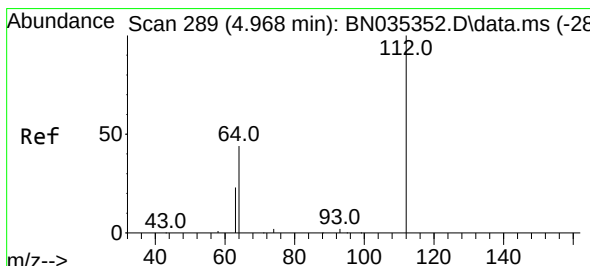
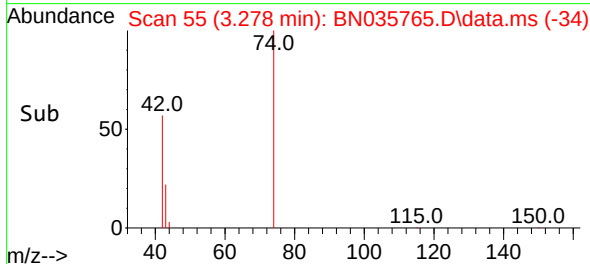
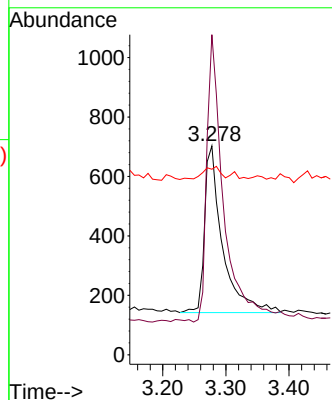
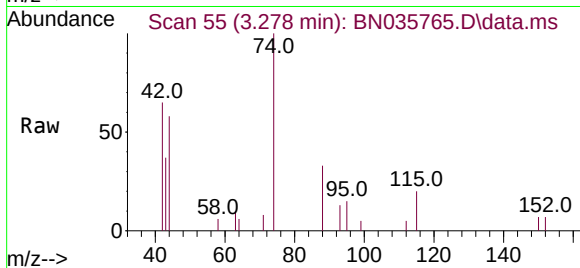




#3  
n-Nitrosodimethylamine  
Concen: 0.391 ng  
RT: 3.278 min Scan# 51  
Delta R.T. -0.000 min  
Lab File: BN035765.D  
Acq: 21 Dec 2024 05:10

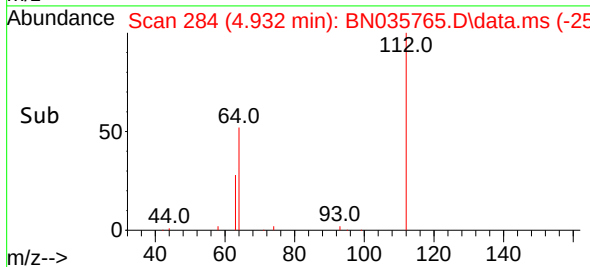
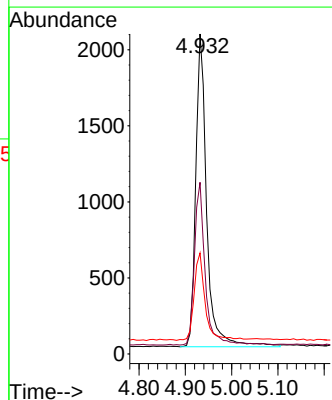
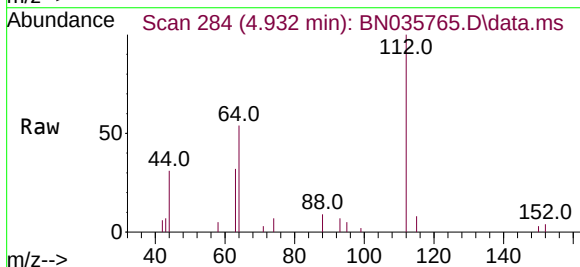
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BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

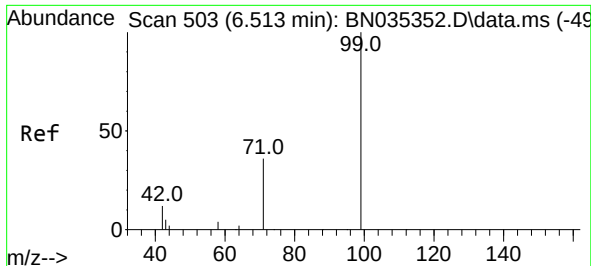
Tgt Ion: 42 Resp: 1104  
Ion Ratio Lower Upper  
42 100  
74 165.7 124.9 187.3  
44 6.3 2.2 3.4#



#4  
2-Fluorophenol  
Concen: 0.384 ng  
RT: 4.932 min Scan# 284  
Delta R.T. -0.007 min  
Lab File: BN035765.D  
Acq: 21 Dec 2024 05:10

Tgt Ion: 112 Resp: 3403  
Ion Ratio Lower Upper  
112 100  
64 51.2 39.8 59.8  
63 28.0 21.0 31.6

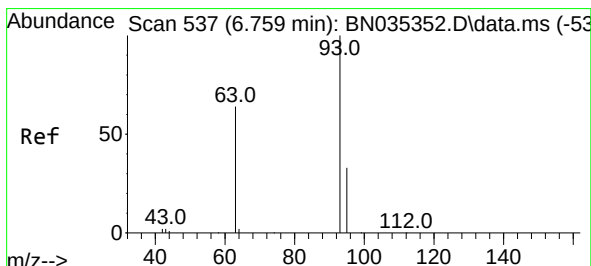
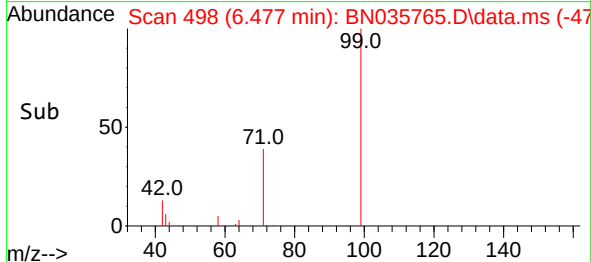
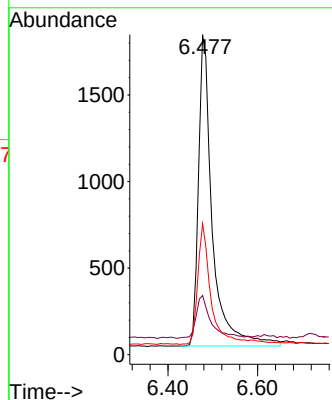
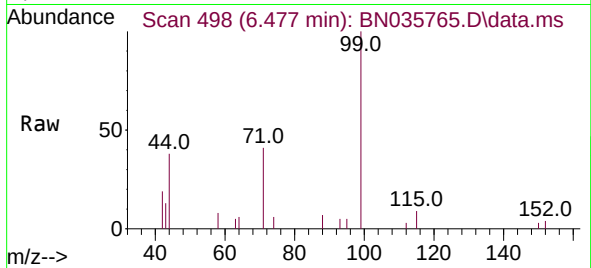




#5  
Phenol-d6  
Concen: 0.364 ng  
RT: 6.477 min Scan# 498  
Delta R.T. -0.015 min  
Lab File: BN035765.D  
Acq: 21 Dec 2024 05:10

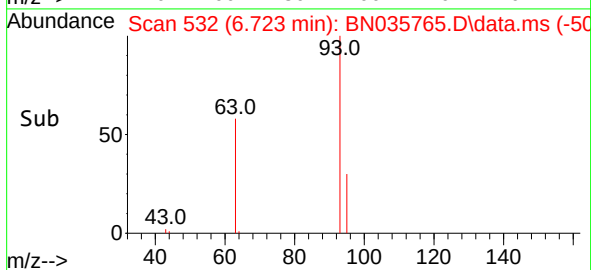
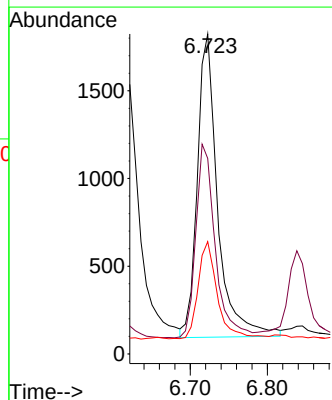
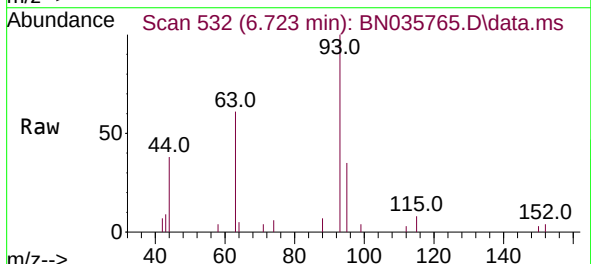
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

Tgt Ion: 99 Resp: 3879  
Ion Ratio Lower Upper  
99 100  
42 14.6 11.4 17.2  
71 35.9 29.3 43.9

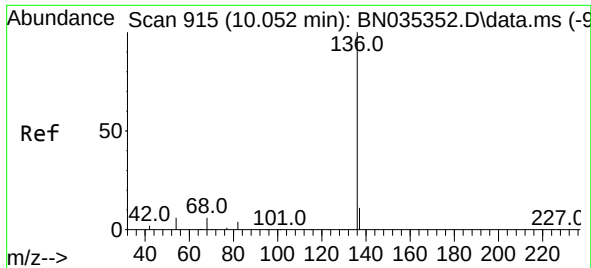


#6  
bis(2-Chloroethyl)ether  
Concen: 0.353 ng  
RT: 6.723 min Scan# 532  
Delta R.T. -0.007 min  
Lab File: BN035765.D  
Acq: 21 Dec 2024 05:10

Tgt Ion: 93 Resp: 3165  
Ion Ratio Lower Upper  
93 100  
63 61.5 50.4 75.6  
95 30.6 25.7 38.5



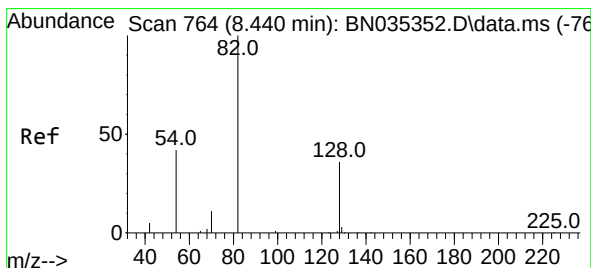
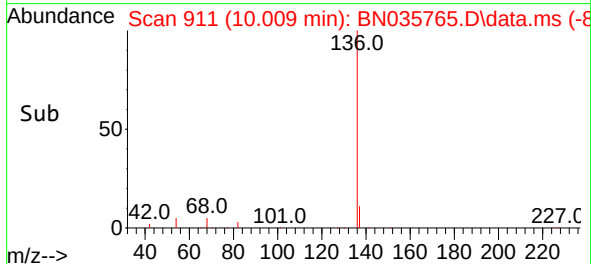
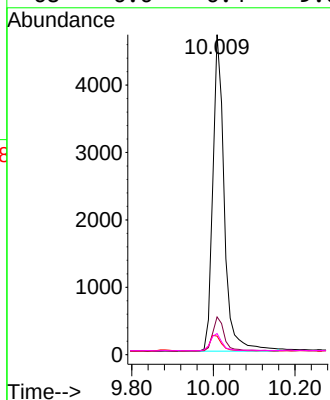
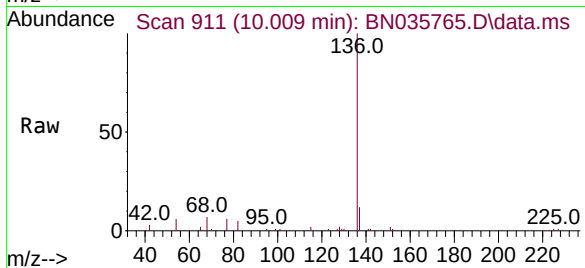




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.009 min Scan# 915  
Delta R.T. -0.011 min  
Lab File: BN035765.D  
Acq: 21 Dec 2024 05:10

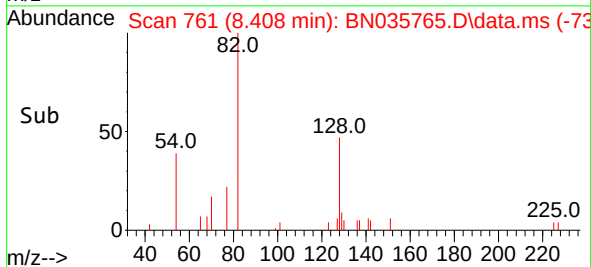
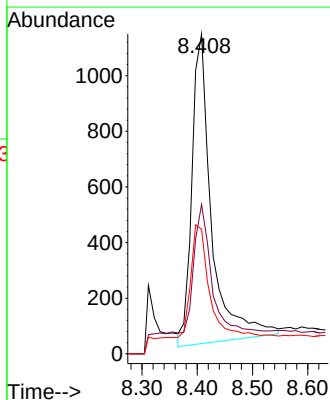
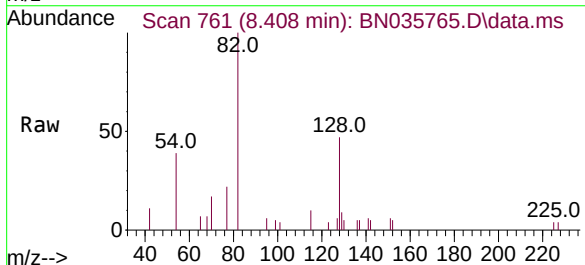
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

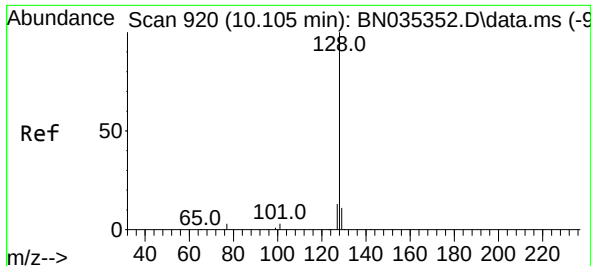
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 136   | Resp: | 9106 |
| Ion Ratio | Lower | Upper |      |
| 136       | 100   |       |      |
| 137       | 11.8  | 10.2  | 15.2 |
| 54        | 5.8   | 6.1   | 9.1# |
| 68        | 6.6   | 6.4   | 9.6  |



#8  
Nitrobenzene-d5  
Concen: 0.496 ng  
RT: 8.408 min Scan# 761  
Delta R.T. -0.000 min  
Lab File: BN035765.D  
Acq: 21 Dec 2024 05:10

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 82    | Resp: | 2756 |
| Ion Ratio | Lower | Upper |      |
| 82        | 100   |       |      |
| 128       | 46.7  | 33.4  | 50.0 |
| 54        | 39.0  | 36.7  | 55.1 |

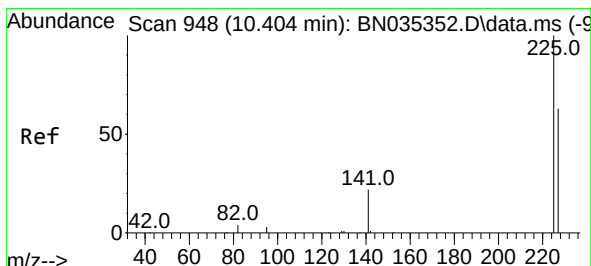
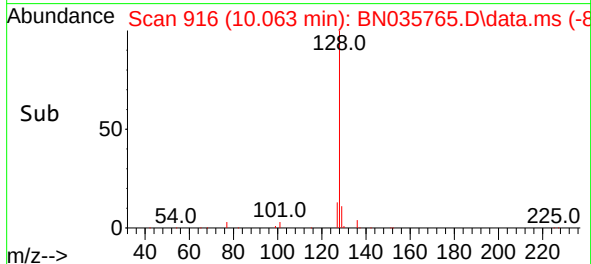
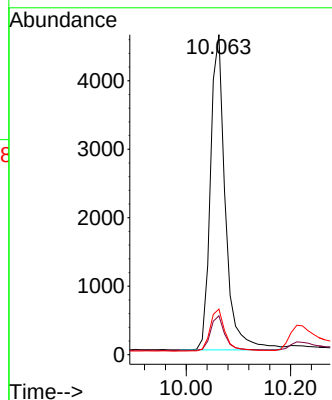
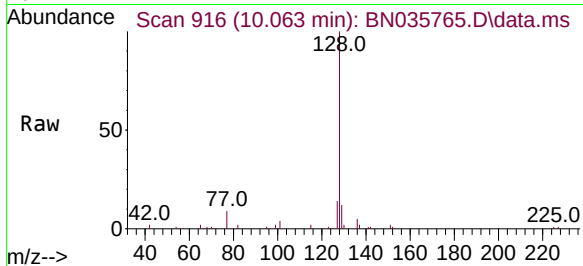




#9  
Naphthalene  
Concen: 0.379 ng  
RT: 10.063 min Scan# 916  
Delta R.T. -0.000 min  
Lab File: BN035765.D  
Acq: 21 Dec 2024 05:10

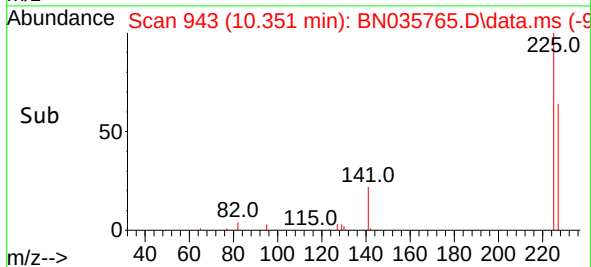
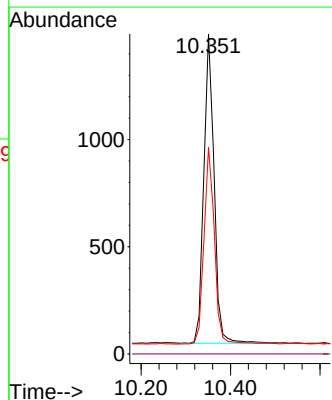
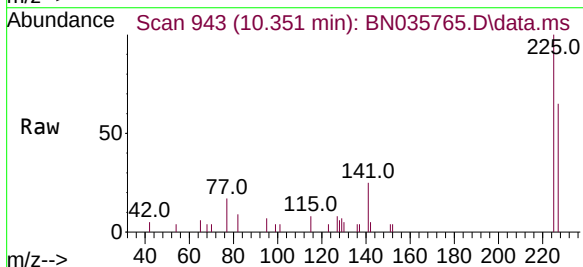
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

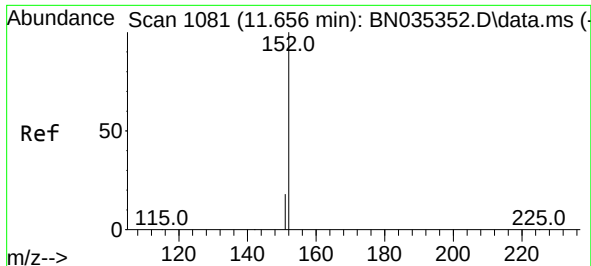
Tgt Ion:128 Resp: 9097  
Ion Ratio Lower Upper  
128 100  
129 12.2 9.8 14.6  
127 14.3 11.4 17.2



#10  
Hexachlorobutadiene  
Concen: 0.415 ng  
RT: 10.351 min Scan# 943  
Delta R.T. -0.011 min  
Lab File: BN035765.D  
Acq: 21 Dec 2024 05:10

Tgt Ion:225 Resp: 2300  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 65.0 51.3 76.9

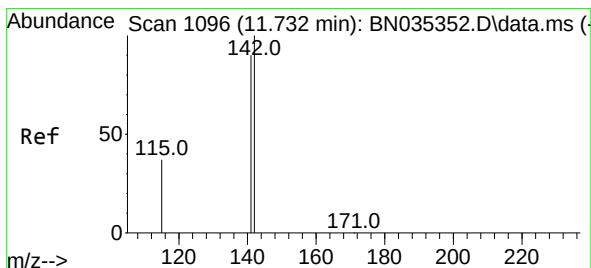
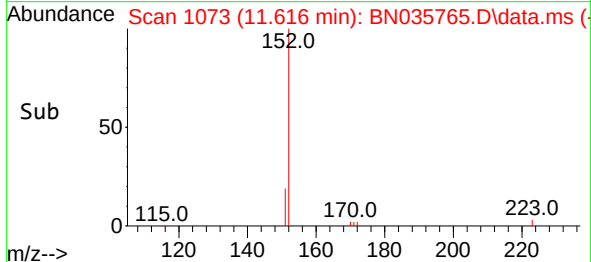
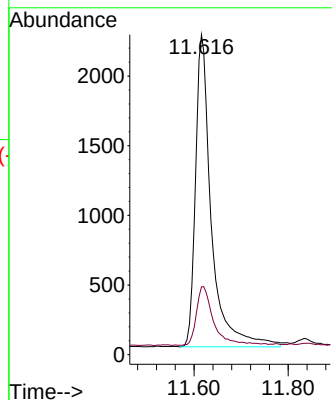
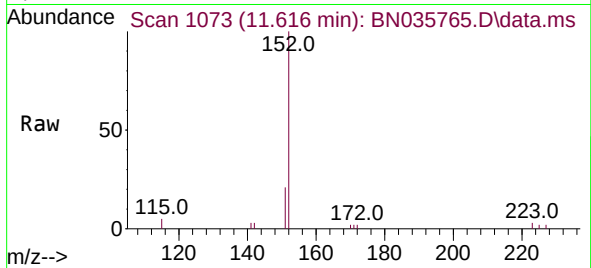




#11  
2-Methylnaphthalene-d10  
Concen: 0.369 ng  
RT: 11.616 min Scan# 1073  
Delta R.T. -0.005 min  
Lab File: BN035765.D  
Acq: 21 Dec 2024 05:10

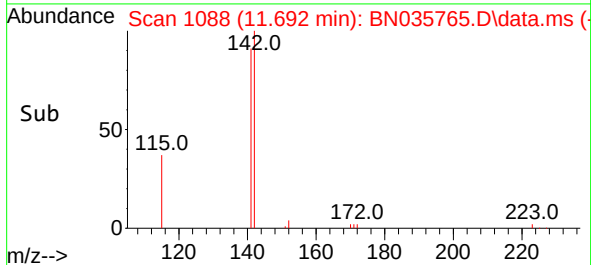
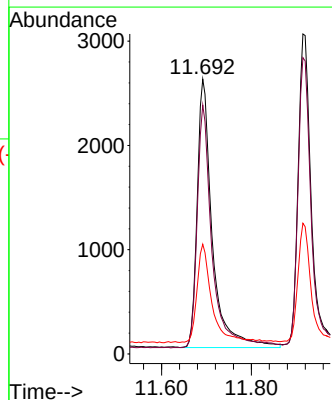
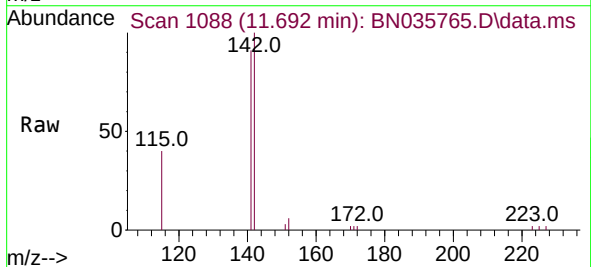
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

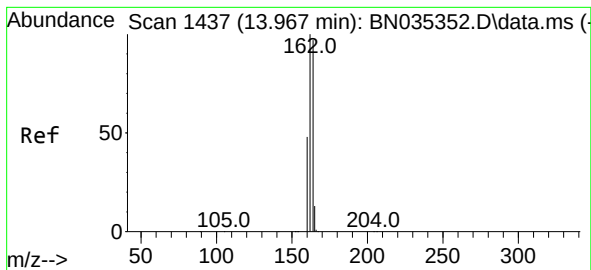
Tgt Ion:152 Resp: 5263  
Ion Ratio Lower Upper  
152 100  
151 19.7 16.6 25.0



#12  
2-Methylnaphthalene  
Concen: 0.350 ng  
RT: 11.692 min Scan# 1088  
Delta R.T. -0.005 min  
Lab File: BN035765.D  
Acq: 21 Dec 2024 05:10

Tgt Ion:142 Resp: 6016  
Ion Ratio Lower Upper  
142 100  
141 90.5 72.2 108.4  
115 39.9 31.4 47.0





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 13.924 min Scan# 14

Delta R.T. -0.011 min

Lab File: BN035765.D

Acq: 21 Dec 2024 05:10

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC

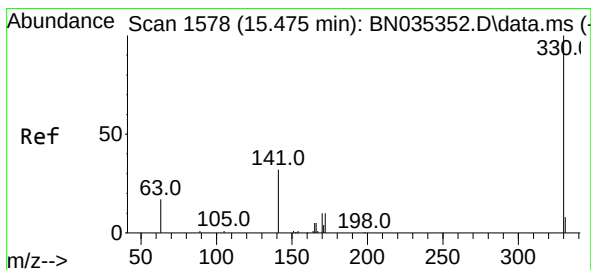
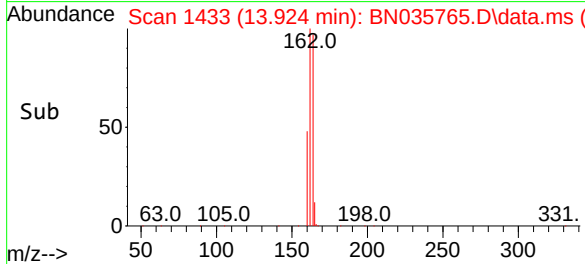
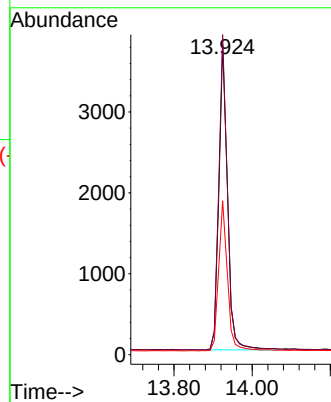
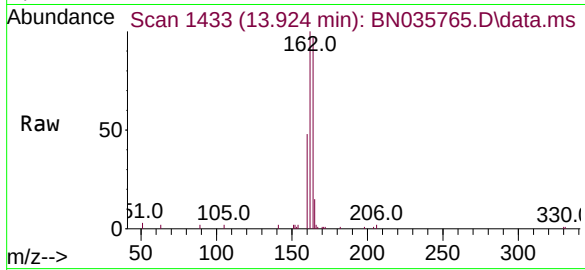
Tgt Ion:164 Resp: 5821

Ion Ratio Lower Upper

164 100

162 103.2 82.2 123.2

160 49.6 40.1 60.1



#14

2,4,6-Tribromophenol

Concen: 0.303 ng

RT: 15.453 min Scan# 1576

Delta R.T. -0.000 min

Lab File: BN035765.D

Acq: 21 Dec 2024 05:10

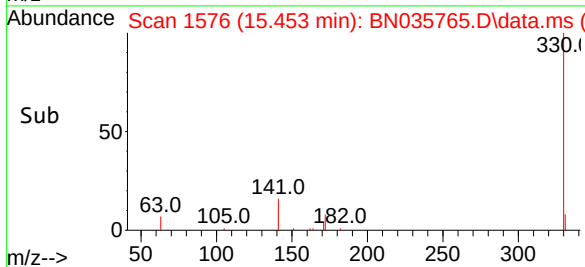
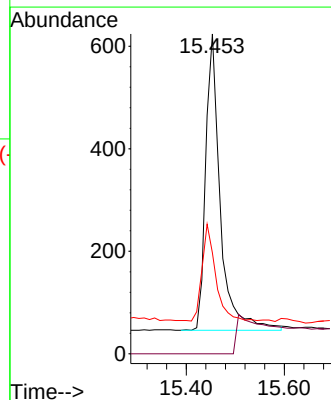
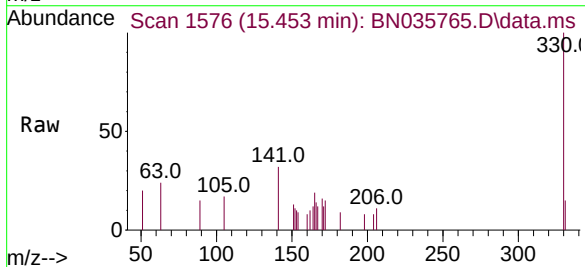
Tgt Ion:330 Resp: 1253

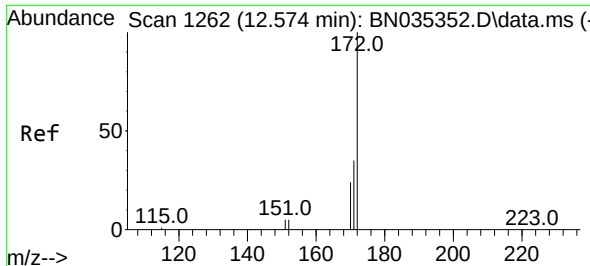
Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

141 29.6 26.6 40.0

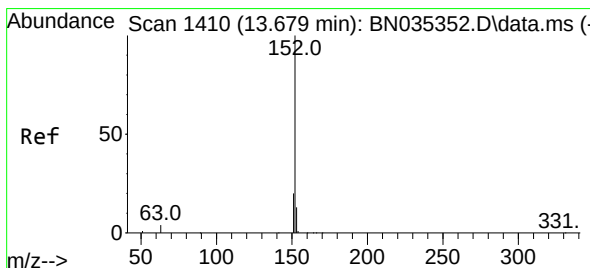
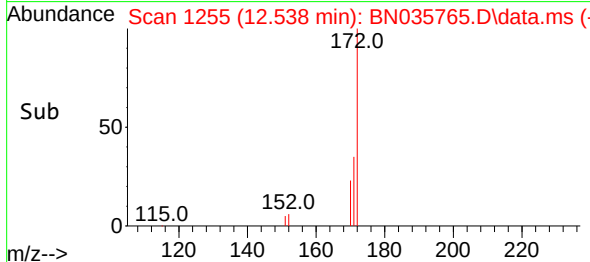
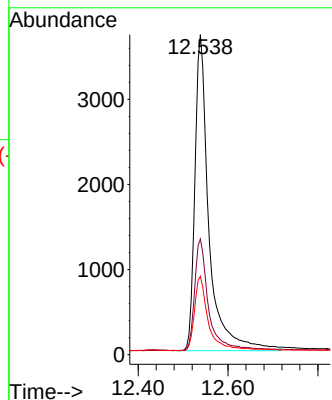
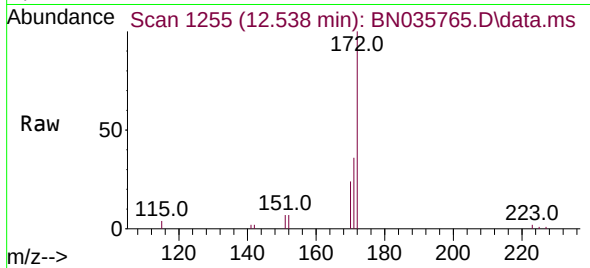




#15  
2-Fluorobiphenyl  
Concen: 0.367 ng  
RT: 12.538 min Scan# 11  
Delta R.T. -0.005 min  
Lab File: BN035765.D  
Acq: 21 Dec 2024 05:10

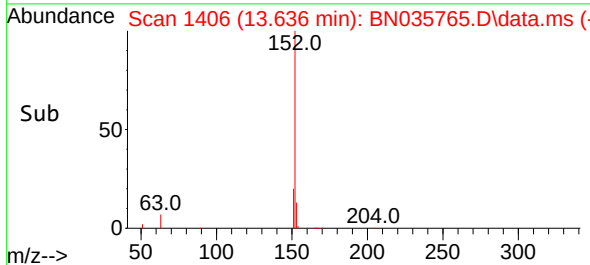
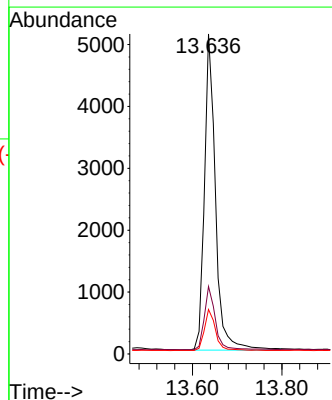
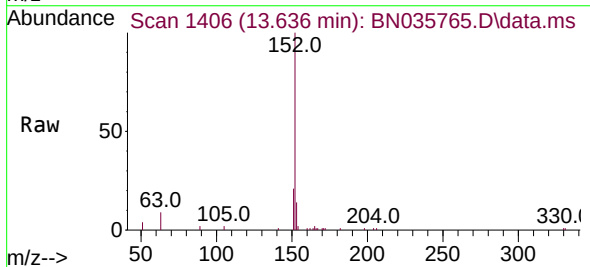
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

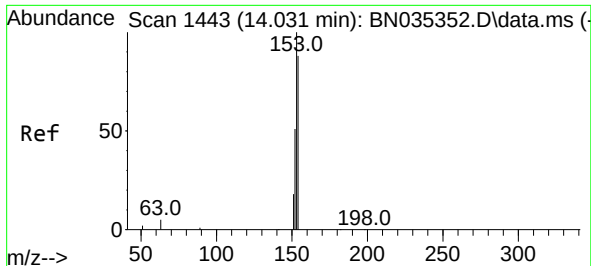
Tgt Ion:172 Resp: 8084  
Ion Ratio Lower Upper  
172 100  
171 36.1 29.0 43.4  
170 24.5 19.8 29.8



#16  
Acenaphthylene  
Concen: 0.359 ng  
RT: 13.636 min Scan# 1406  
Delta R.T. -0.011 min  
Lab File: BN035765.D  
Acq: 21 Dec 2024 05:10

Tgt Ion:152 Resp: 8764  
Ion Ratio Lower Upper  
152 100  
151 19.7 16.2 24.2  
153 13.0 10.4 15.6

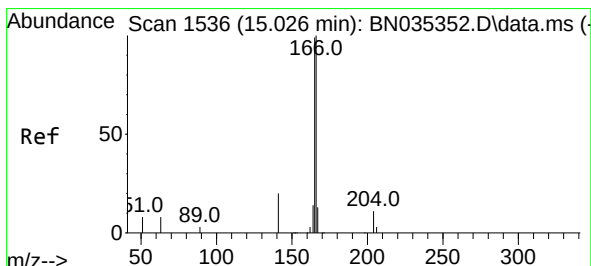
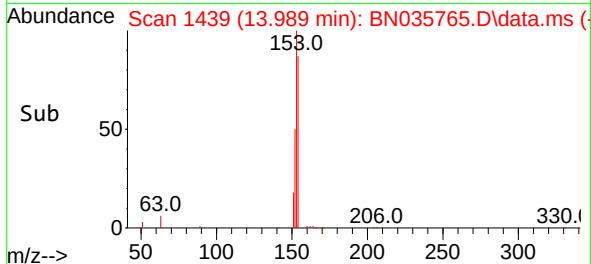
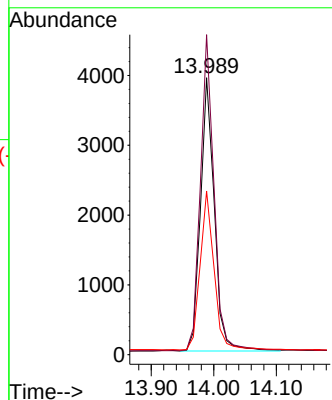
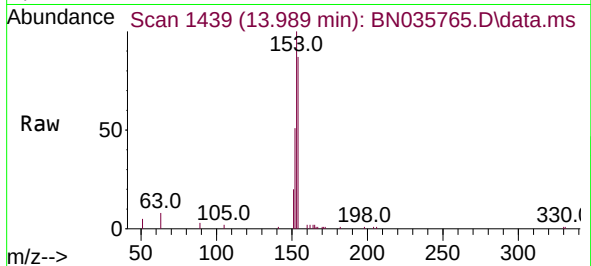




#17  
Acenaphthene  
Concen: 0.373 ng  
RT: 13.989 min Scan# 14  
Delta R.T. -0.011 min  
Lab File: BN035765.D  
Acq: 21 Dec 2024 05:10

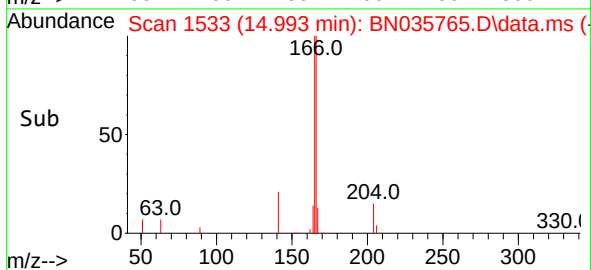
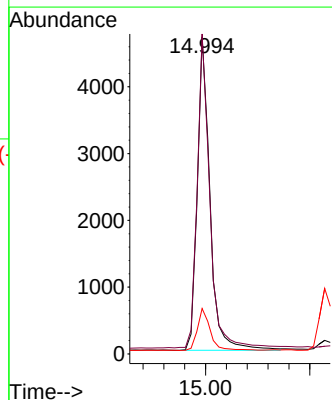
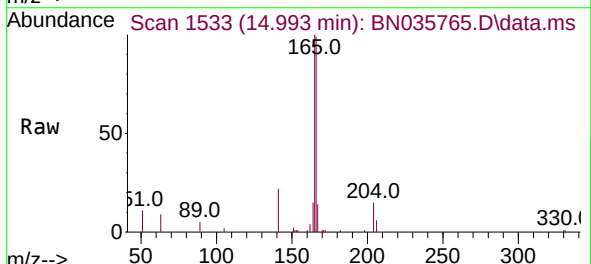
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

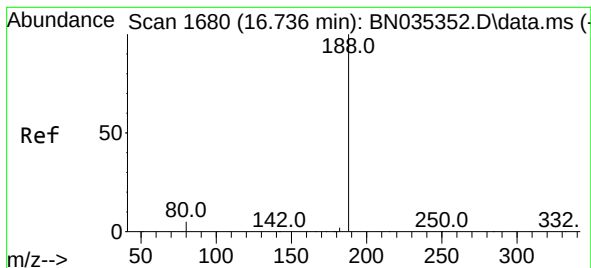
Tgt Ion:154 Resp: 6047  
Ion Ratio Lower Upper  
154 100  
153 114.7 92.6 139.0  
152 58.8 49.0 73.6



#18  
Fluorene  
Concen: 0.342 ng  
RT: 14.993 min Scan# 1533  
Delta R.T. -0.011 min  
Lab File: BN035765.D  
Acq: 21 Dec 2024 05:10

Tgt Ion:166 Resp: 7942  
Ion Ratio Lower Upper  
166 100  
165 99.1 79.7 119.5  
167 13.6 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.698 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN035765.D

Acq: 21 Dec 2024 05:10

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC

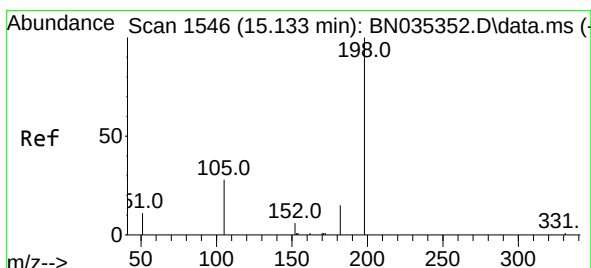
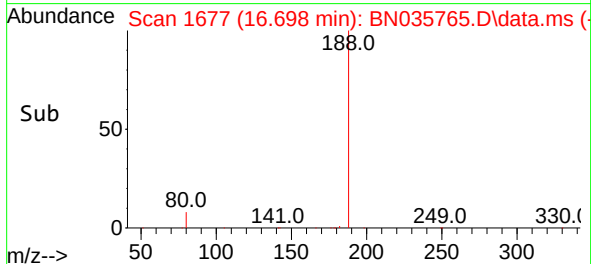
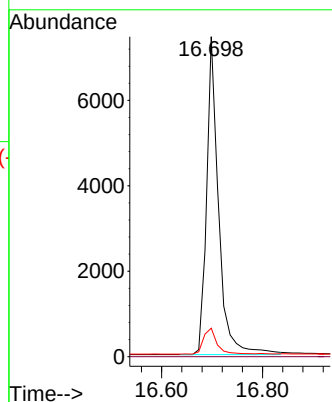
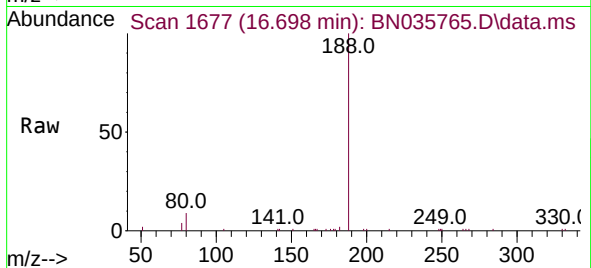
Tgt Ion:188 Resp: 12321

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.9 4.6 6.8#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.117 ng

RT: 15.132 min Scan# 1546

Delta R.T. 0.011 min

Lab File: BN035765.D

Acq: 21 Dec 2024 05:10

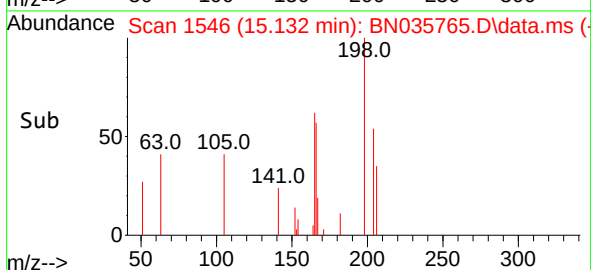
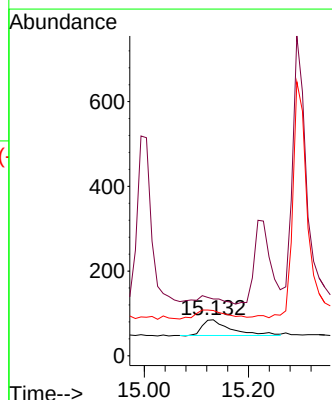
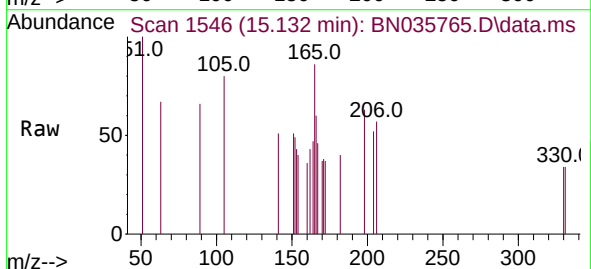
Tgt Ion:198 Resp: 142

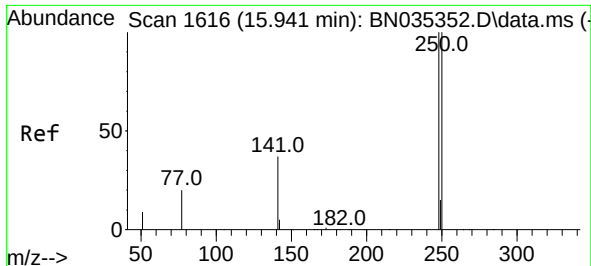
Ion Ratio Lower Upper

198 100

51 157.6 46.5 69.7#

105 125.9 45.3 67.9#

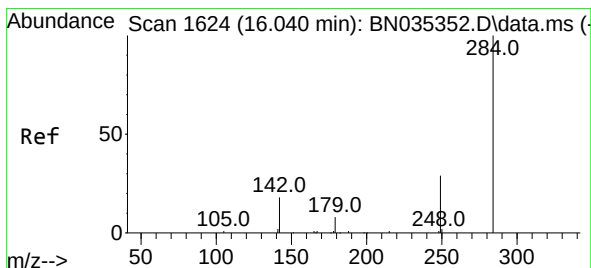
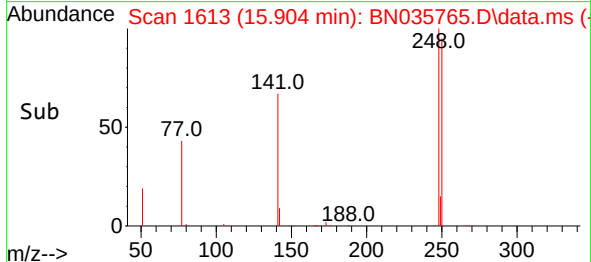
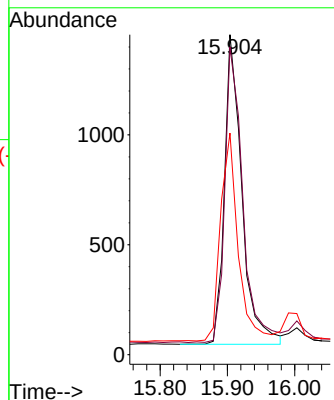
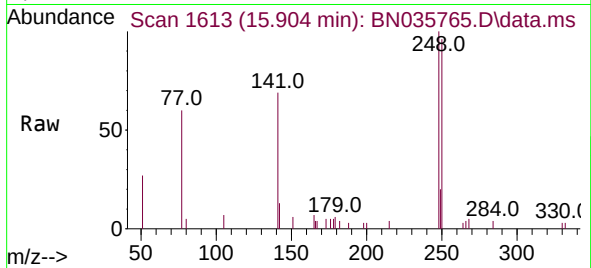




#21  
4-Bromophenyl-phenylether  
Concen: 0.351 ng  
RT: 15.904 min Scan# 1613  
Delta R.T. -0.013 min  
Lab File: BN035765.D  
Acq: 21 Dec 2024 05:10

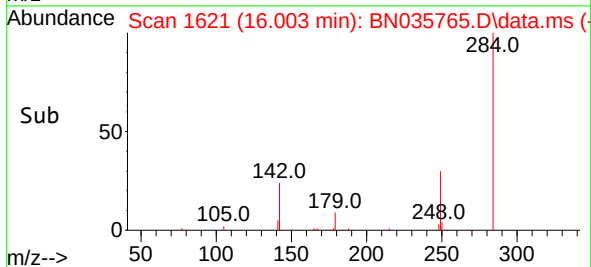
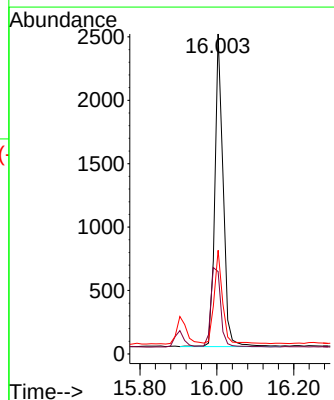
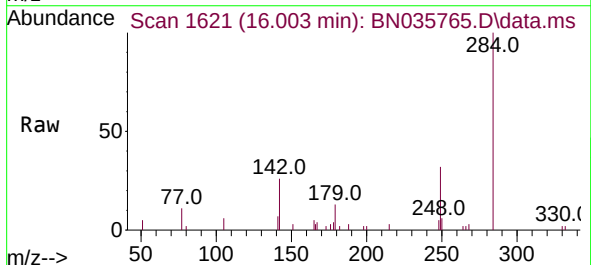
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

Tgt Ion:248 Resp: 2531  
Ion Ratio Lower Upper  
248 100  
250 96.2 80.6 120.8  
141 69.2 31.5 47.3#

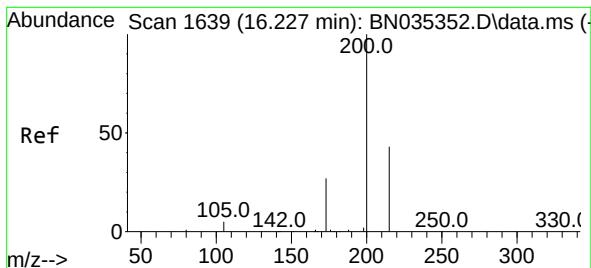


#22  
Hexachlorobenzene  
Concen: 0.433 ng  
RT: 16.003 min Scan# 1621  
Delta R.T. -0.013 min  
Lab File: BN035765.D  
Acq: 21 Dec 2024 05:10

Tgt Ion:284 Resp: 3667  
Ion Ratio Lower Upper  
284 100  
142 30.7 26.7 40.1  
249 29.9 24.6 36.8







#23

Atrazine

Concen: 0.369 ng

RT: 16.202 min Scan# 1637

Delta R.T. -0.000 min

Lab File: BN035765.D

Acq: 21 Dec 2024 05:10

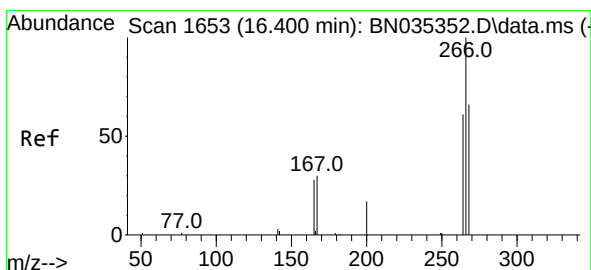
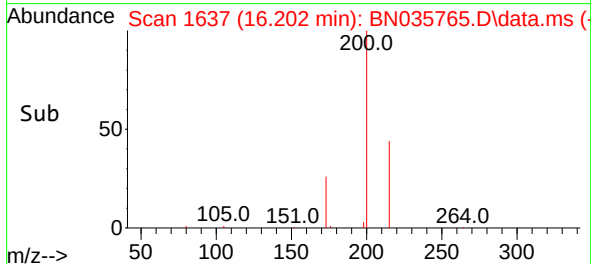
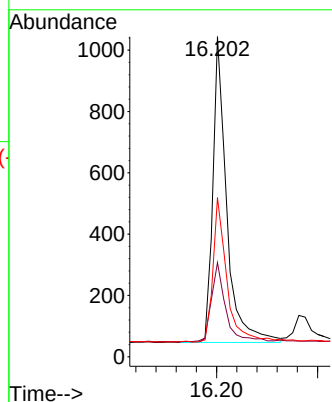
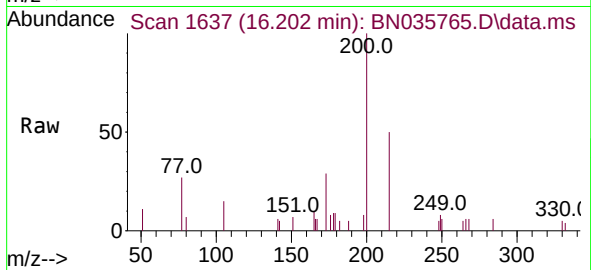
Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 200   | Resp: | 1895 |
| Ion Ratio | Lower | Upper |      |
| 200       | 100   |       |      |
| 173       | 29.4  | 24.1  | 36.1 |
| 215       | 49.7  | 36.9  | 55.3 |



#24

Pentachlorophenol

Concen: 0.320 ng

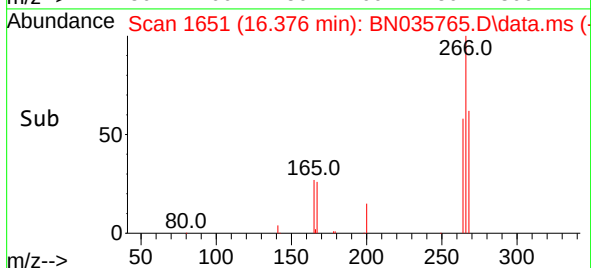
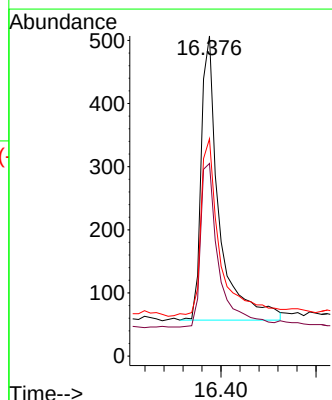
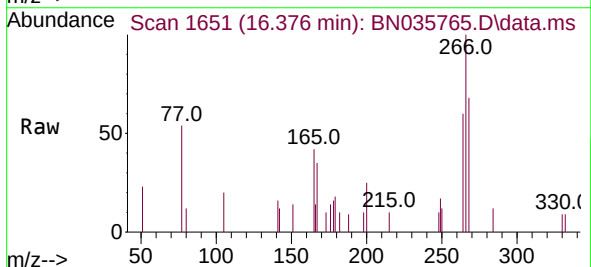
RT: 16.376 min Scan# 1651

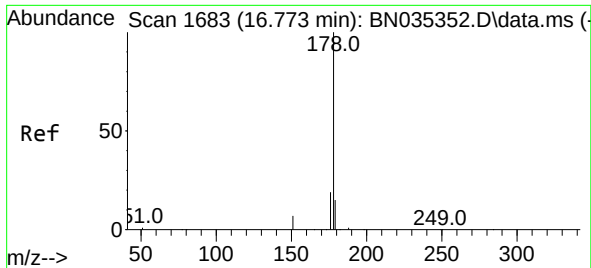
Delta R.T. -0.000 min

Lab File: BN035765.D

Acq: 21 Dec 2024 05:10

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 266   | Resp: | 1177 |
| Ion Ratio | Lower | Upper |      |
| 266       | 100   |       |      |
| 264       | 59.3  | 42.3  | 63.5 |
| 268       | 67.2  | 43.3  | 64.9 |

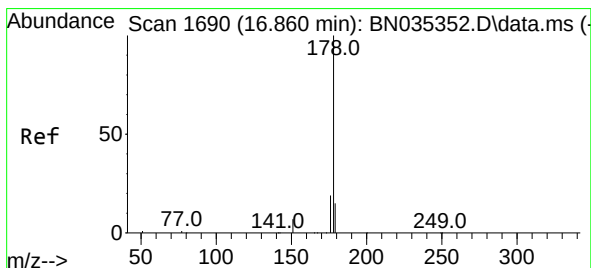
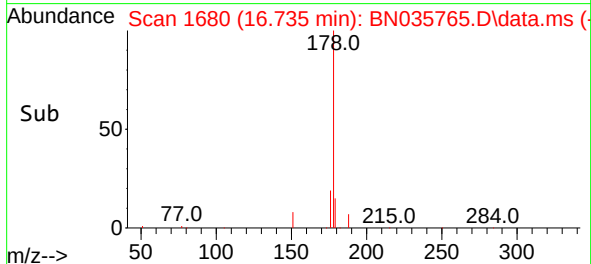
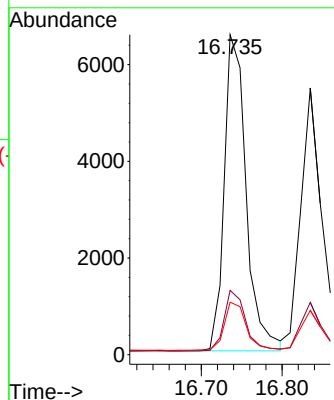
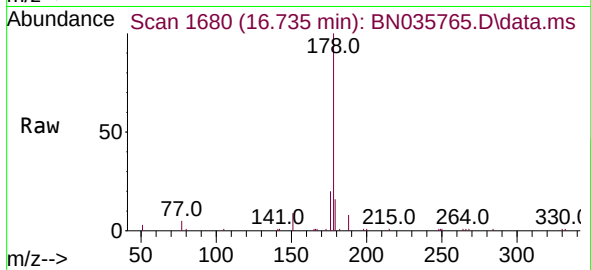




#25  
Phenanthrene  
Concen: 0.365 ng  
RT: 16.735 min Scan# 1680  
Delta R.T. -0.013 min  
Lab File: BN035765.D  
Acq: 21 Dec 2024 05:10

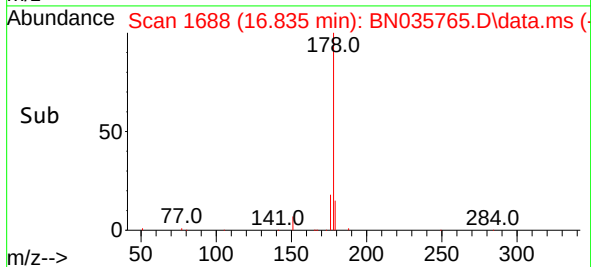
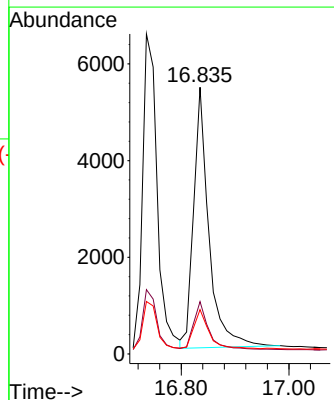
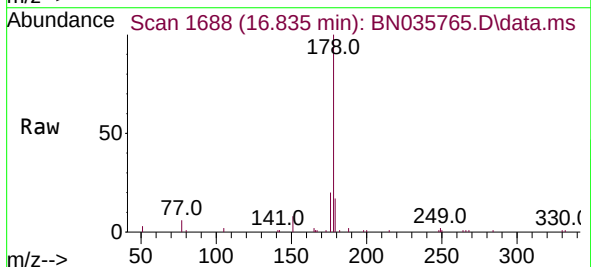
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

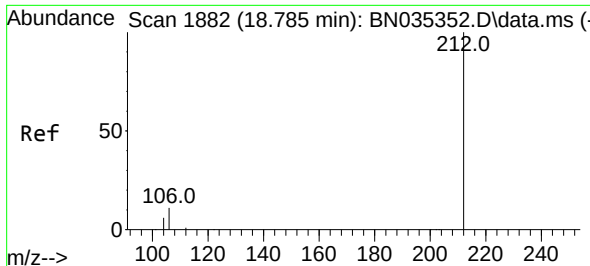
Tgt Ion:178 Resp: 12350  
Ion Ratio Lower Upper  
178 100  
176 18.8 15.4 23.2  
179 15.4 12.3 18.5



#26  
Anthracene  
Concen: 0.347 ng  
RT: 16.835 min Scan# 1688  
Delta R.T. -0.000 min  
Lab File: BN035765.D  
Acq: 21 Dec 2024 05:10

Tgt Ion:178 Resp: 10612  
Ion Ratio Lower Upper  
178 100  
176 18.5 15.0 22.6  
179 15.2 12.6 18.8

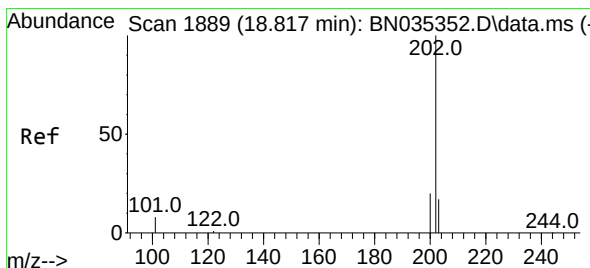
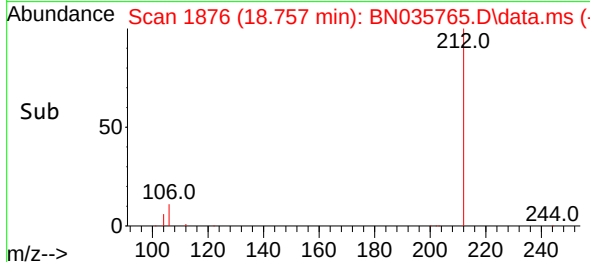
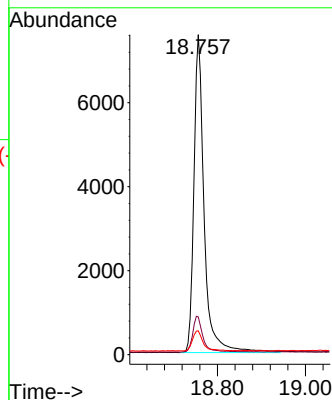
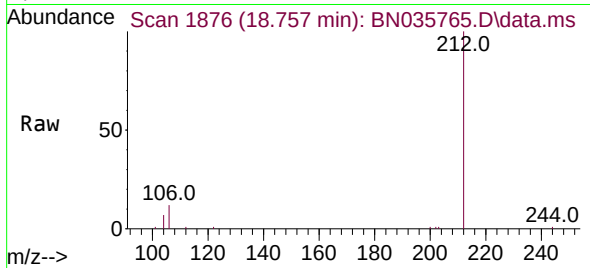




#27  
Fluoranthene-d10  
Concen: 0.349 ng  
RT: 18.757 min Scan# 1876  
Delta R.T. -0.005 min  
Lab File: BN035765.D  
Acq: 21 Dec 2024 05:10

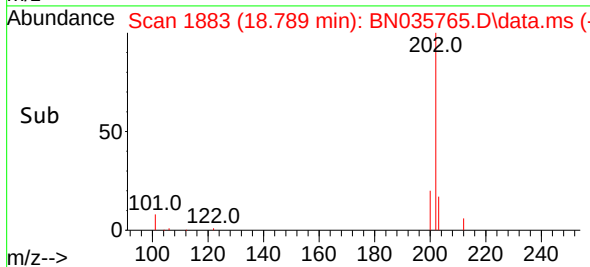
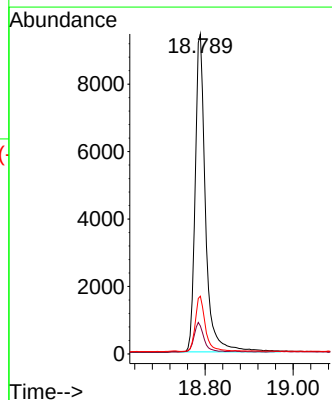
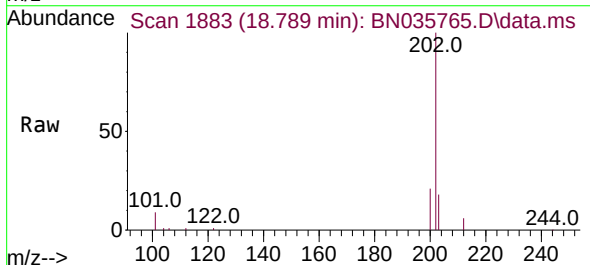
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

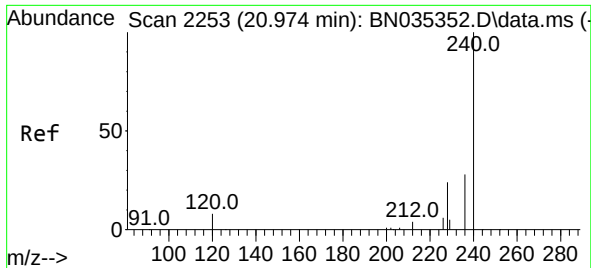
Tgt Ion:212 Resp: 12191  
Ion Ratio Lower Upper  
212 100  
106 11.4 9.2 13.8  
104 6.5 5.3 7.9



#28  
Fluoranthene  
Concen: 0.337 ng  
RT: 18.789 min Scan# 1883  
Delta R.T. -0.000 min  
Lab File: BN035765.D  
Acq: 21 Dec 2024 05:10

Tgt Ion:202 Resp: 15375  
Ion Ratio Lower Upper  
202 100  
101 9.2 7.4 11.0  
203 16.8 13.7 20.5

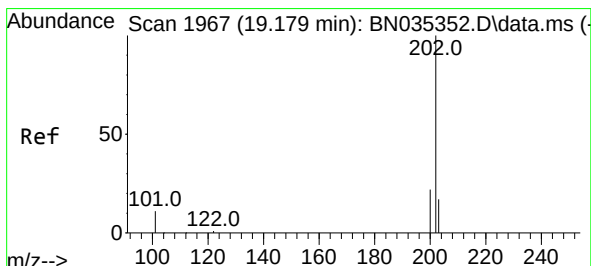
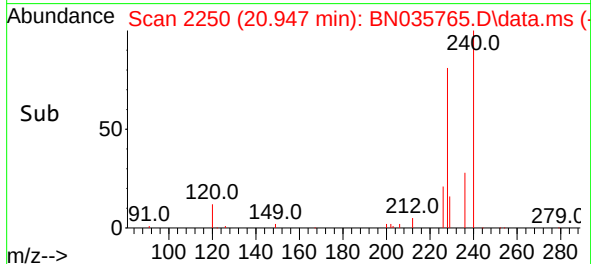
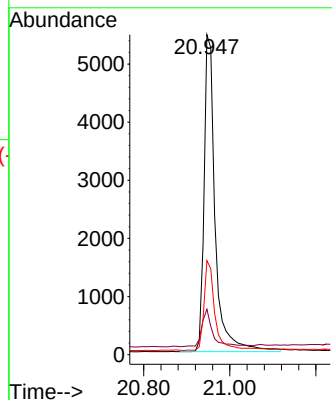
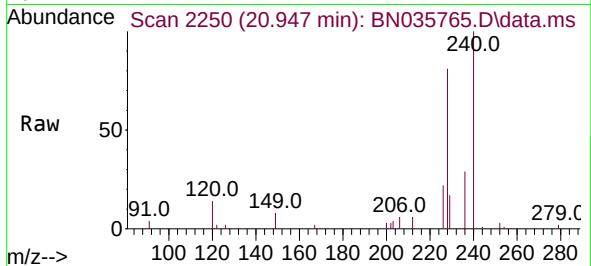




#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 20.947 min Scan# 21  
Delta R.T. -0.009 min  
Lab File: BN035765.D  
Acq: 21 Dec 2024 05:10

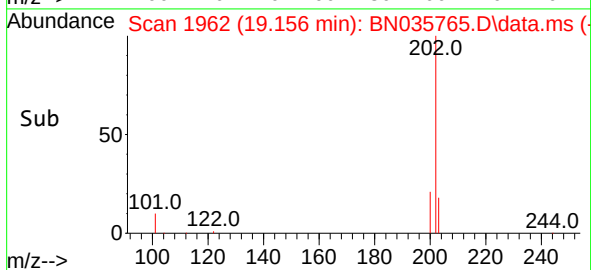
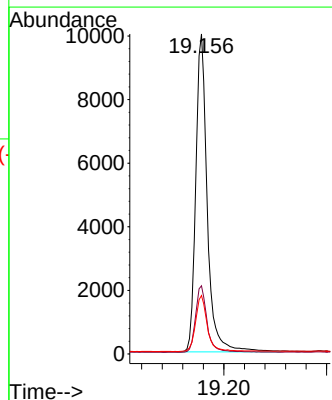
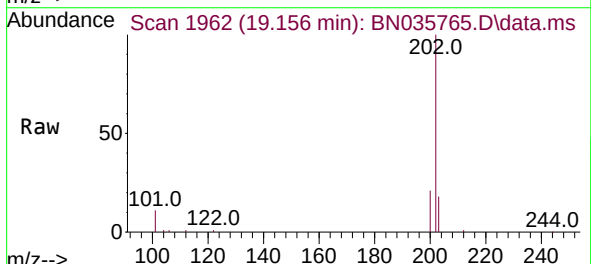
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

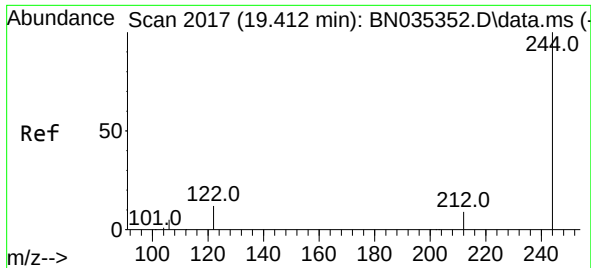
Tgt Ion:240 Resp: 9836  
Ion Ratio Lower Upper  
240 100  
120 14.2 7.9 11.9#  
236 29.4 22.9 34.3



#30  
Pyrene  
Concen: 0.429 ng  
RT: 19.156 min Scan# 1962  
Delta R.T. -0.005 min  
Lab File: BN035765.D  
Acq: 21 Dec 2024 05:10

Tgt Ion:202 Resp: 15587  
Ion Ratio Lower Upper  
202 100  
200 21.1 17.0 25.4  
203 18.0 14.3 21.5

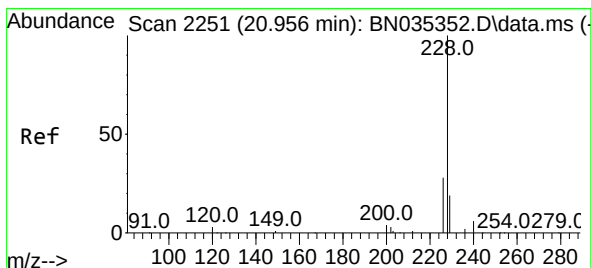
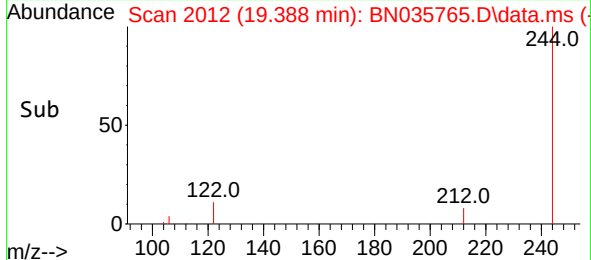
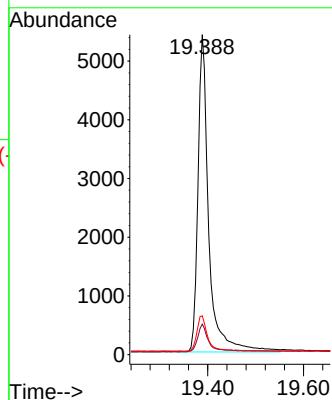
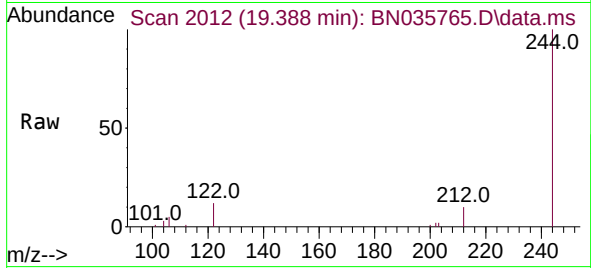




#31  
 Terphenyl-d14  
 Concen: 0.437 ng  
 RT: 19.388 min Scan# 20  
 Delta R.T. -0.000 min  
 Lab File: BN035765.D  
 Acq: 21 Dec 2024 05:10

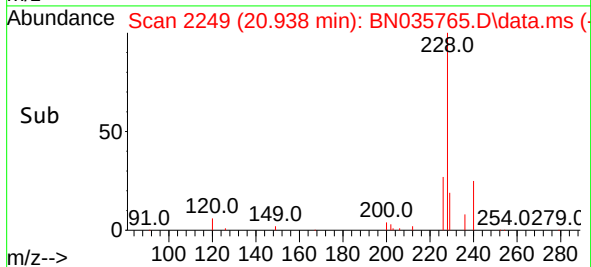
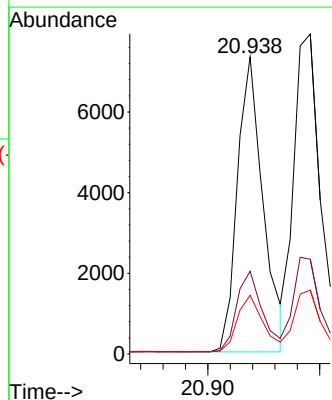
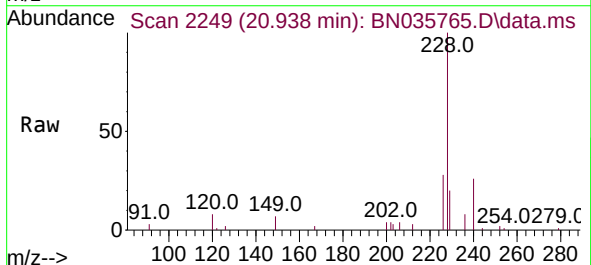
Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4EC

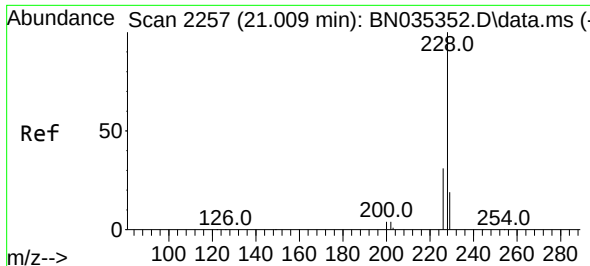
Tgt Ion:244 Resp: 8488  
 Ion Ratio Lower Upper  
 244 100  
 212 9.6 8.1 12.1  
 122 12.1 10.3 15.5



#32  
 Benzo(a)anthracene  
 Concen: 0.339 ng  
 RT: 20.938 min Scan# 2249  
 Delta R.T. -0.000 min  
 Lab File: BN035765.D  
 Acq: 21 Dec 2024 05:10

Tgt Ion:228 Resp: 11659  
 Ion Ratio Lower Upper  
 228 100  
 226 27.9 22.5 33.7  
 229 19.8 15.8 23.8





#33

Chrysene

Concen: 0.402 ng

RT: 20.991 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035765.D

Acq: 21 Dec 2024 05:10

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC

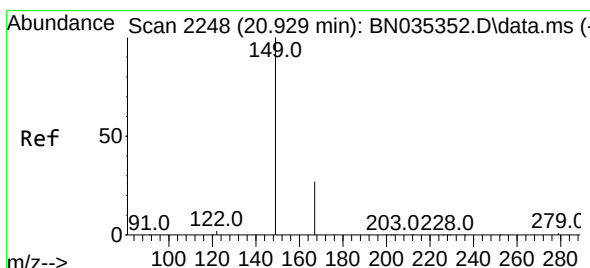
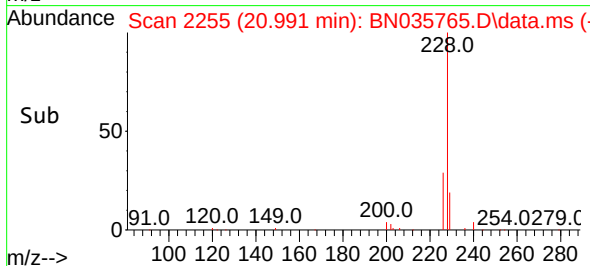
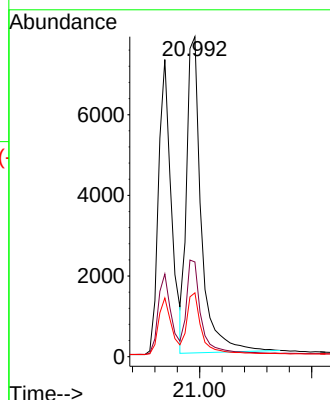
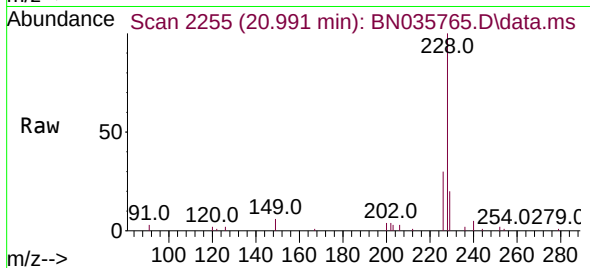
Tgt Ion:228 Resp: 14263

Ion Ratio Lower Upper

228 100

226 29.6 24.6 37.0

229 20.0 15.9 23.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.419 ng

RT: 20.902 min Scan# 2245

Delta R.T. -0.009 min

Lab File: BN035765.D

Acq: 21 Dec 2024 05:10

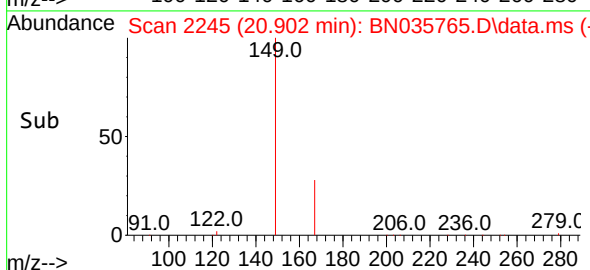
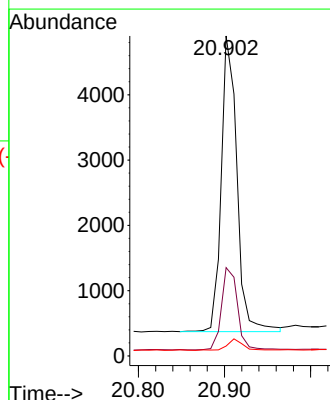
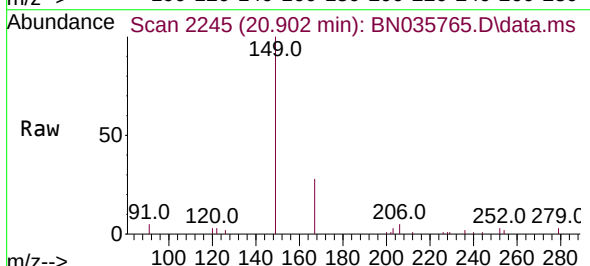
Tgt Ion:149 Resp: 5697

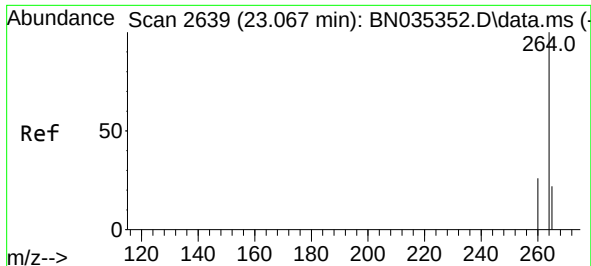
Ion Ratio Lower Upper

149 100

167 28.5 22.2 33.4

279 3.9 2.7 4.1

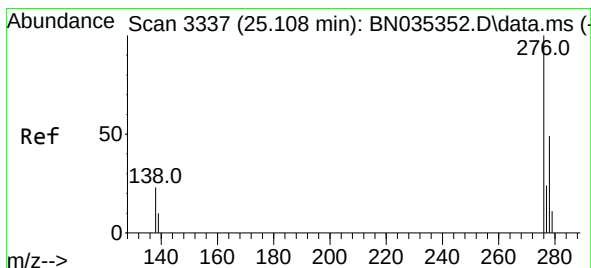
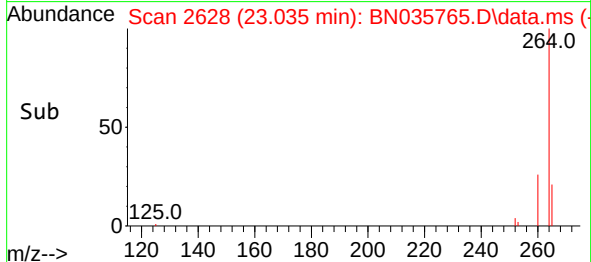
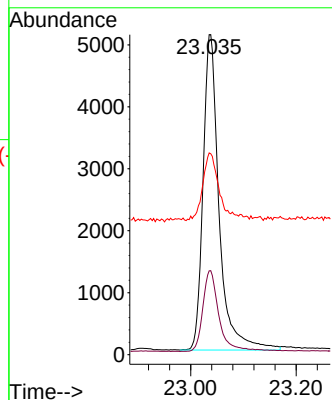
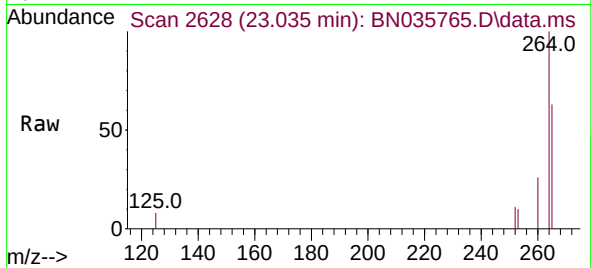




#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.035 min Scan# 2628  
Delta R.T. -0.006 min  
Lab File: BN035765.D  
Acq: 21 Dec 2024 05:10

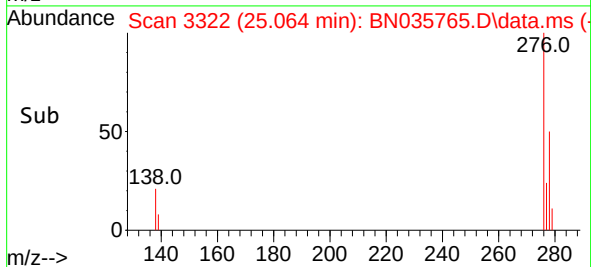
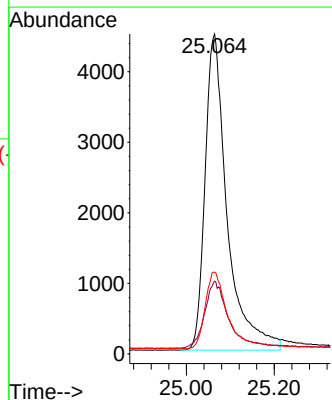
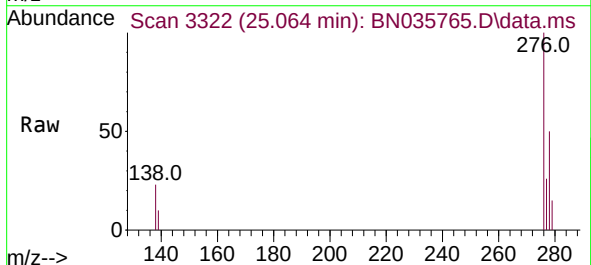
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

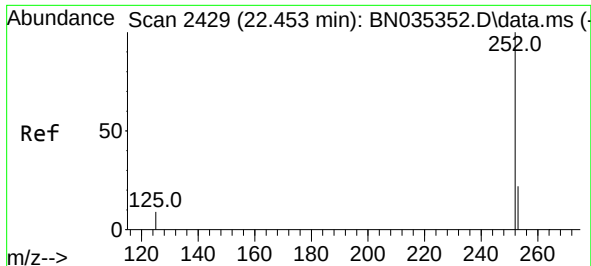
Tgt Ion:264 Resp: 10740  
Ion Ratio Lower Upper  
264 100  
260 26.2 21.4 32.2  
265 63.0 40.2 60.4#



#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.373 ng  
RT: 25.064 min Scan# 3322  
Delta R.T. -0.003 min  
Lab File: BN035765.D  
Acq: 21 Dec 2024 05:10

Tgt Ion:276 Resp: 15666  
Ion Ratio Lower Upper  
276 100  
138 22.9 19.4 29.0  
277 24.7 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.484 ng

RT: 22.427 min Scan# 2420

Delta R.T. -0.003 min

Lab File: BN035765.D

Acq: 21 Dec 2024 05:10

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC

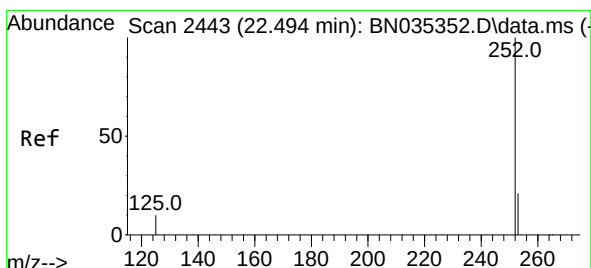
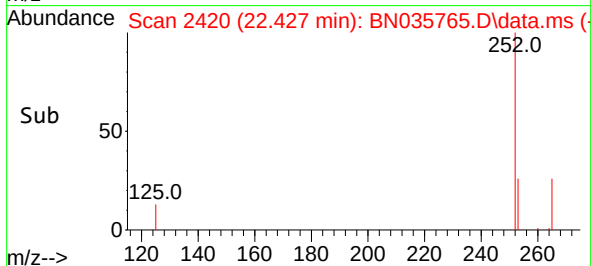
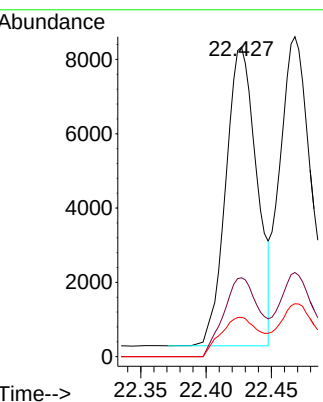
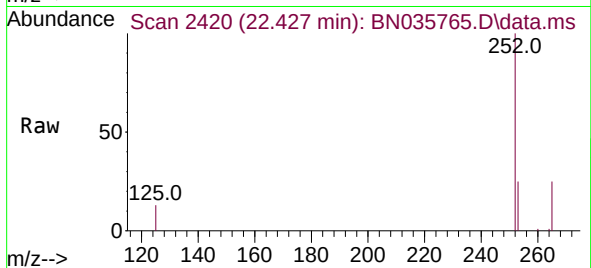
Tgt Ion:252 Resp: 19003

Ion Ratio Lower Upper

252 100

253 25.5 19.6 29.4

125 12.7 9.6 14.4



#38

Benzo(k)fluoranthene

Concen: 0.491 ng

RT: 22.427 min Scan# 2420

Delta R.T. -0.044 min

Lab File: BN035765.D

Acq: 21 Dec 2024 05:10

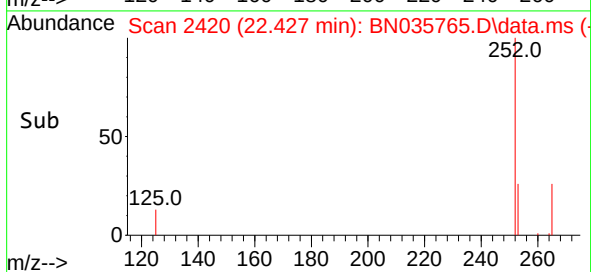
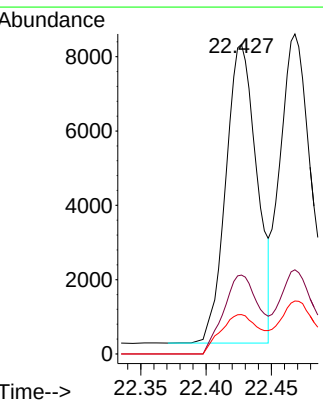
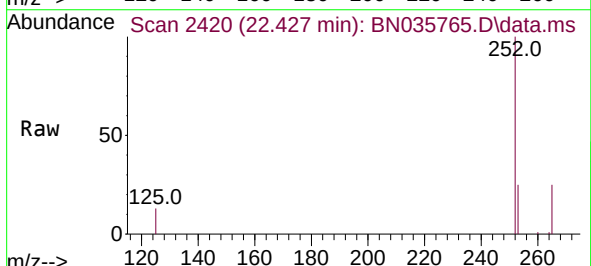
Tgt Ion:252 Resp: 19003

Ion Ratio Lower Upper

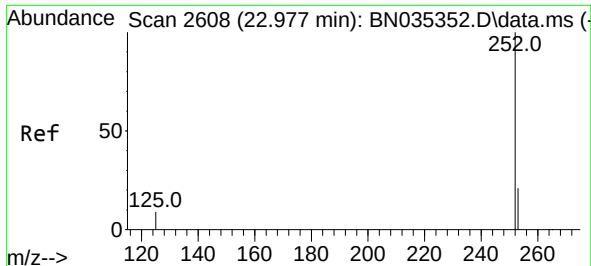
252 100

253 25.5 19.5 29.3

125 12.7 10.2 15.4







#39

Benzo(a)pyrene

Concen: 0.363 ng

RT: 22.947 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN035765.D

Acq: 21 Dec 2024 05:10

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC

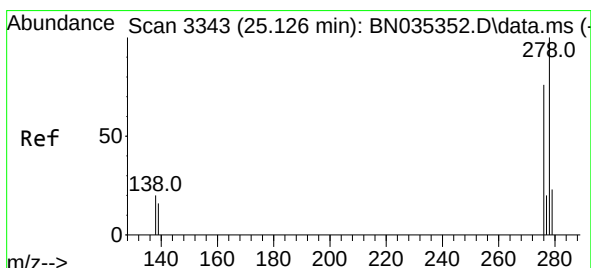
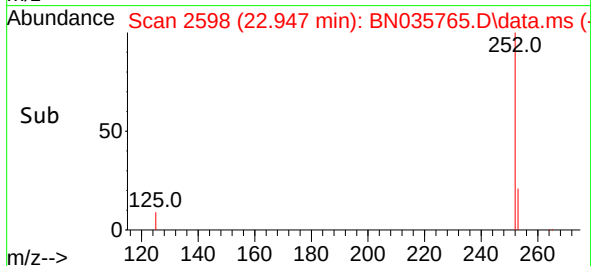
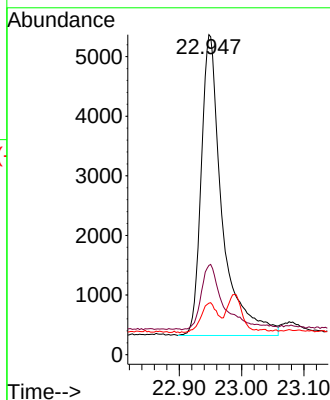
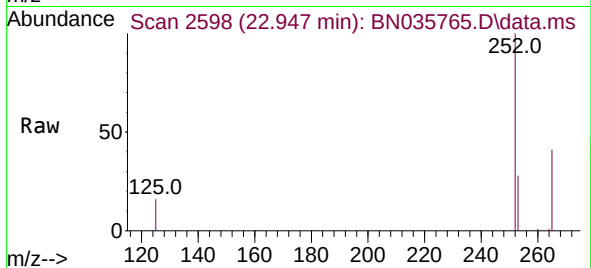
Tgt Ion:252 Resp: 11742

Ion Ratio Lower Upper

252 100

253 27.9 20.2 30.4

125 16.1 10.9 16.3



#40

Dibenzo(a,h)anthracene

Concen: 0.352 ng

RT: 25.079 min Scan# 3327

Delta R.T. -0.003 min

Lab File: BN035765.D

Acq: 21 Dec 2024 05:10

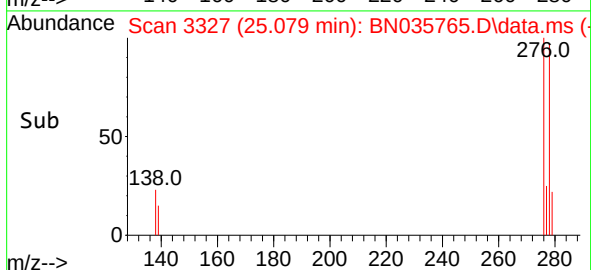
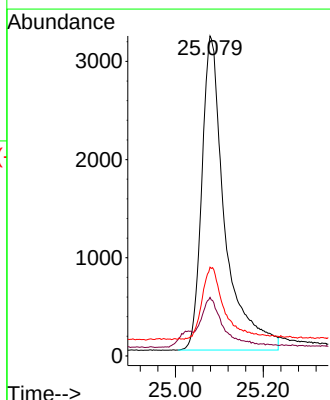
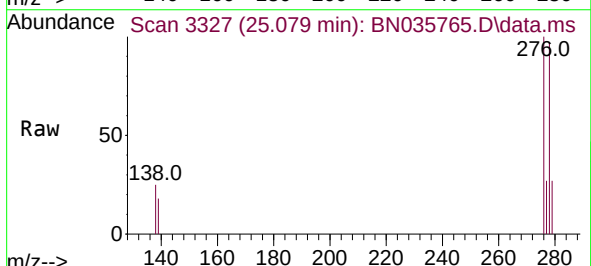
Tgt Ion:278 Resp: 11661

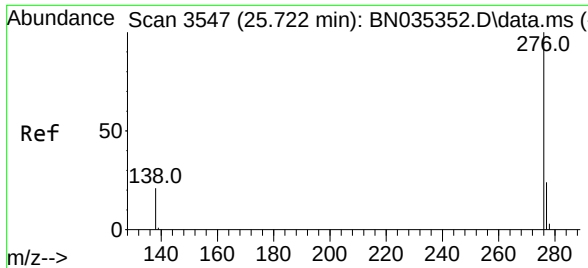
Ion Ratio Lower Upper

278 100

139 18.3 14.2 21.4

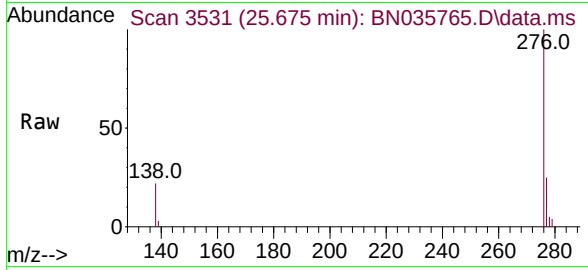
279 27.7 20.5 30.7



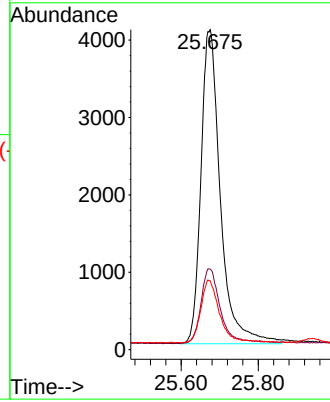
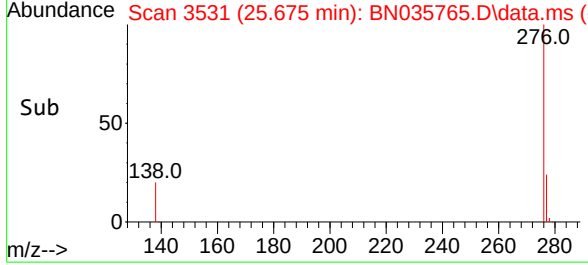


#41  
Benzo(g,h,i)perylene  
Concen: 0.411 ng  
RT: 25.675 min Scan# 31  
Delta R.T. -0.003 min  
Lab File: BN035765.D  
Acq: 21 Dec 2024 05:10

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 276   | Resp: | 14236 |
| Ion      | Ratio | Lower | Upper |
| 276      | 100   |       |       |
| 277      | 25.2  | 19.9  | 29.9  |
| 138      | 21.5  | 17.8  | 26.8  |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN122324\  
 Data File : BN035794.D  
 Acq On : 23 Dec 2024 22:16  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4

Quant Time: Dec 24 00:13:20 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Dec 19 23:06:19 2024  
 Response via : Initial Calibration

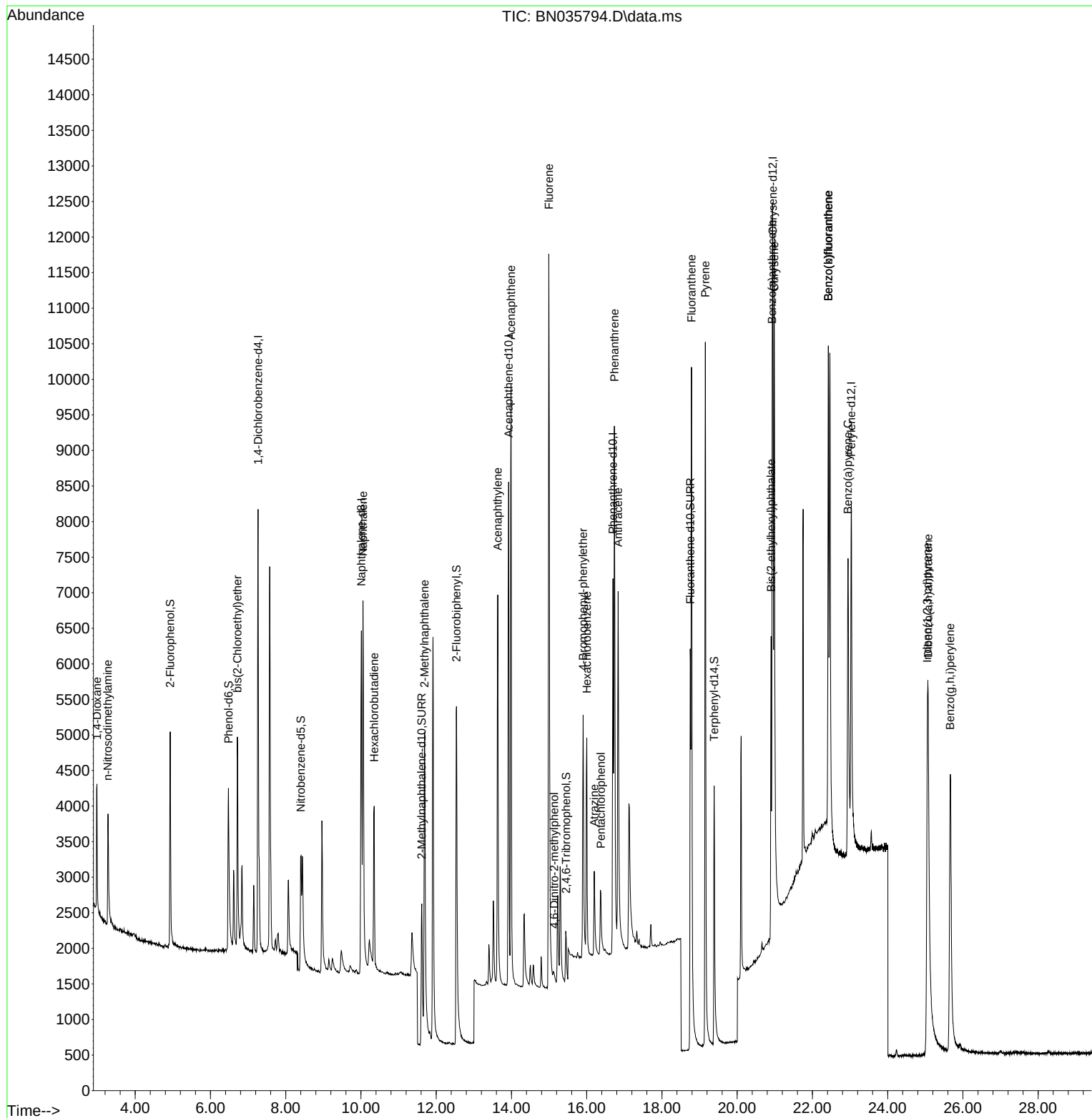
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min)   |
|-------------------------------|--------|------|----------|-------|-------|------------|
| Internal Standards            |        |      |          |       |       |            |
| 1) 1,4-Dichlorobenzene-d4     | 7.264  | 152  | 3234     | 0.400 | ng    | 0.00       |
| 7) Naphthalene-d8             | 10.009 | 136  | 7877     | 0.400 | ng    | #-0.01     |
| 13) Acenaphthene-d10          | 13.924 | 164  | 4482     | 0.400 | ng    | -0.01      |
| 19) Phenanthrene-d10          | 16.698 | 188  | 8845     | 0.400 | ng    | # 0.00     |
| 29) Chrysene-d12              | 20.947 | 240  | 7163     | 0.400 | ng    | # 0.00     |
| 35) Perylene-d12              | 23.032 | 264  | 7277     | 0.400 | ng    | # 0.00     |
| System Monitoring Compounds   |        |      |          |       |       |            |
| 4) 2-Fluorophenol             | 4.932  | 112  | 2987     | 0.369 | ng    | 0.00       |
| 5) Phenol-d6                  | 6.477  | 99   | 3287     | 0.338 | ng    | -0.01      |
| 8) Nitrobenzene-d5            | 8.397  | 82   | 2444     | 0.508 | ng    | -0.01      |
| 11) 2-Methylnaphthalene-d10   | 11.615 | 152  | 4254     | 0.345 | ng    | 0.00       |
| 14) 2,4,6-Tribromophenol      | 15.453 | 330  | 932      | 0.293 | ng    | 0.00       |
| 15) 2-Fluorobiphenyl          | 12.538 | 172  | 6854     | 0.405 | ng    | 0.00       |
| 27) Fluoranthene-d10          | 18.752 | 212  | 8405     | 0.335 | ng    | 0.00       |
| 31) Terphenyl-d14             | 19.388 | 244  | 5620     | 0.398 | ng    | 0.00       |
| Target Compounds              |        |      |          |       |       |            |
| 2) 1,4-Dioxane                | 2.982  | 88   | 1355     | 0.438 | ng    | Qvalue 100 |
| 3) n-Nitrosodimethylamine     | 3.270  | 42   | 1052     | 0.409 | ng    | # 95       |
| 6) bis(2-Chloroethyl)ether    | 6.715  | 93   | 2845     | 0.348 | ng    | 97         |
| 9) Naphthalene                | 10.052 | 128  | 7865     | 0.379 | ng    | 100        |
| 10) Hexachlorobutadiene       | 10.351 | 225  | 2082     | 0.434 | ng    | # 100      |
| 12) 2-Methylnaphthalene       | 11.692 | 142  | 5023     | 0.338 | ng    | 99         |
| 16) Acenaphthylene            | 13.636 | 152  | 6992     | 0.372 | ng    | 99         |
| 17) Acenaphthene              | 13.989 | 154  | 4714     | 0.377 | ng    | 99         |
| 18) Fluorene                  | 14.993 | 166  | 6004     | 0.336 | ng    | 100        |
| 20) 4,6-Dinitro-2-methylph... | 15.132 | 198  | 221      | 0.254 | ng    | # 12       |
| 21) 4-Bromophenyl-phenylether | 15.904 | 248  | 1918     | 0.371 | ng    | # 86       |
| 22) Hexachlorobenzene         | 16.003 | 284  | 2804     | 0.462 | ng    | 97         |
| 23) Atrazine                  | 16.202 | 200  | 1338     | 0.363 | ng    | 96         |
| 24) Pentachlorophenol         | 16.375 | 266  | 783      | 0.296 | ng    | 87         |
| 25) Phenanthrene              | 16.735 | 178  | 8831     | 0.363 | ng    | 100        |
| 26) Anthracene                | 16.835 | 178  | 7665     | 0.349 | ng    | 99         |
| 28) Fluoranthene              | 18.785 | 202  | 11004    | 0.336 | ng    | 100        |
| 30) Pyrene                    | 19.152 | 202  | 11228    | 0.425 | ng    | 99         |
| 32) Benzo(a)anthracene        | 20.929 | 228  | 7716     | 0.308 | ng    | 100        |
| 33) Chrysene                  | 20.983 | 228  | 11129    | 0.431 | ng    | 99         |
| 34) Bis(2-ethylhexyl)phtha... | 20.902 | 149  | 4068     | 0.411 | ng    | 99         |
| 36) Indeno(1,2,3-cd)pyrene    | 25.055 | 276  | 10012    | 0.352 | ng    | 98         |
| 37) Benzo(b)fluoranthene      | 22.421 | 252  | 14187    | 0.533 | ng    | # 95       |
| 38) Benzo(k)fluoranthene      | 22.421 | 252  | 14187    | 0.541 | ng    | 95         |
| 39) Benzo(a)pyrene            | 22.944 | 252  | 8141     | 0.371 | ng    | # 87       |
| 40) Dibenzo(a,h)anthracene    | 25.076 | 278  | 7465     | 0.333 | ng    | # 91       |
| 41) Benzo(g,h,i)perylene      | 25.663 | 276  | 9418     | 0.401 | ng    | 98         |

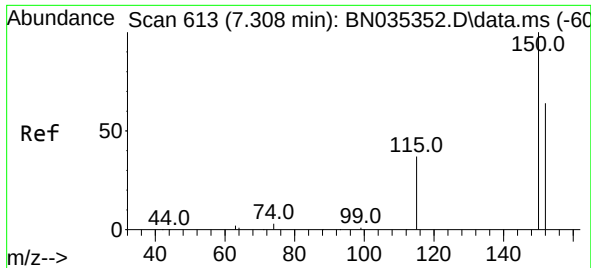
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN122324\  
Data File : BN035794.D  
Acq On : 23 Dec 2024 22:16  
Operator : RC/JU  
Sample : SSTDCCC0.4  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

Quant Time: Dec 24 00:13:20 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Dec 19 23:06:19 2024  
Response via : Initial Calibration

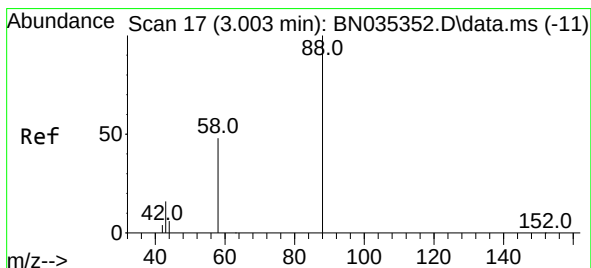
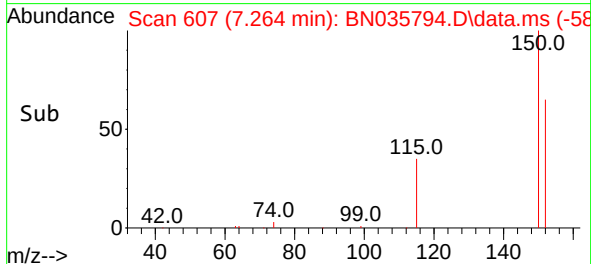
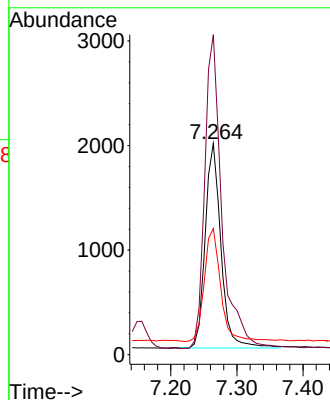
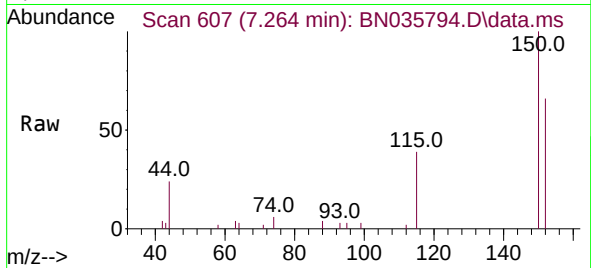




#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.264 min Scan# 61  
Delta R.T. -0.008 min  
Lab File: BN035794.D  
Acq: 23 Dec 2024 22:16

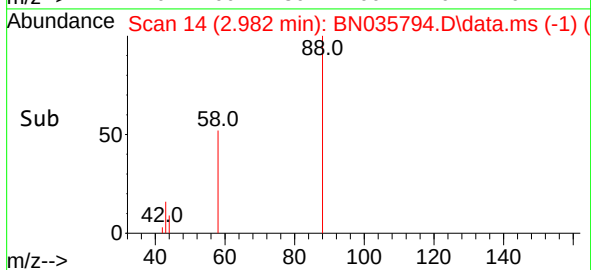
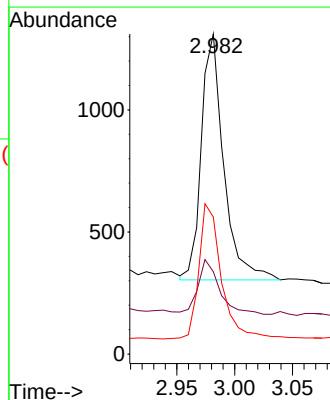
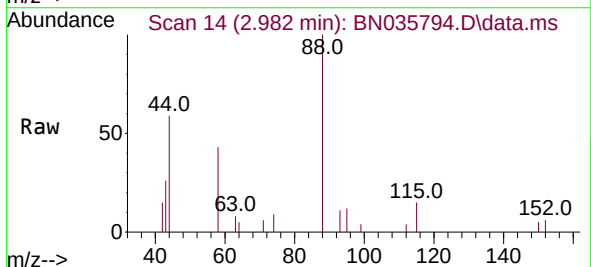
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

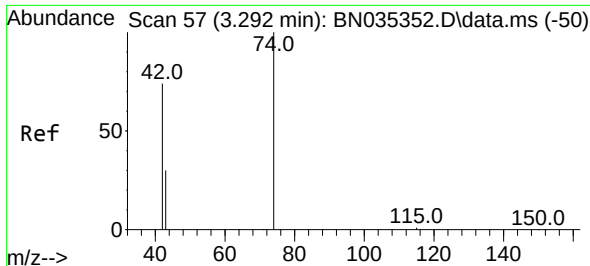
Tgt Ion:152 Resp: 3234  
Ion Ratio Lower Upper  
152 100  
150 151.5 124.0 186.0  
115 59.7 49.6 74.4



#2  
1,4-Dioxane  
Concen: 0.438 ng  
RT: 2.982 min Scan# 14  
Delta R.T. -0.000 min  
Lab File: BN035794.D  
Acq: 23 Dec 2024 22:16

Tgt Ion: 88 Resp: 1355  
Ion Ratio Lower Upper  
88 100  
43 21.3 17.2 25.8  
58 55.4 44.5 66.7

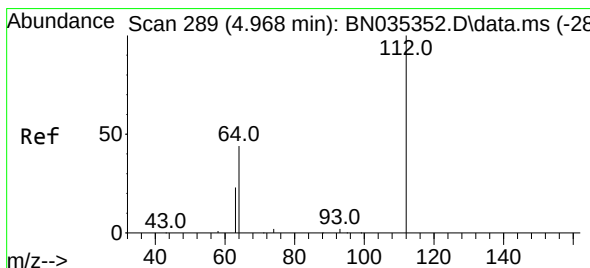
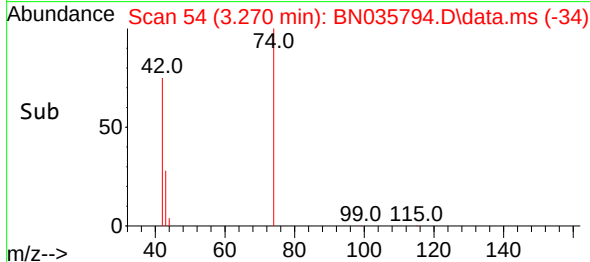
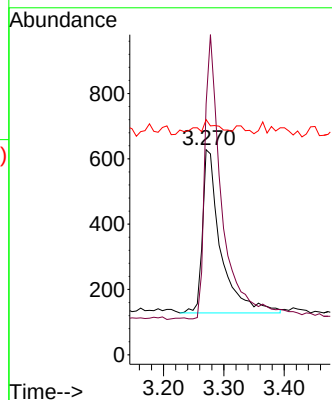
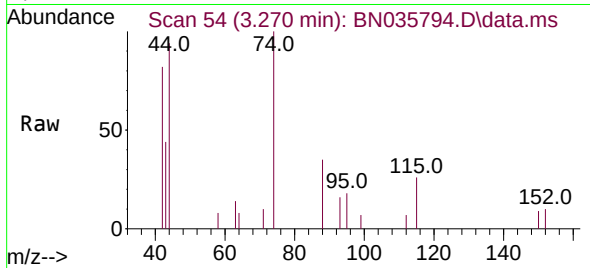




#3  
n-Nitrosodimethylamine  
Concen: 0.409 ng  
RT: 3.270 min Scan# 54  
Delta R.T. -0.007 min  
Lab File: BN035794.D  
Acq: 23 Dec 2024 22:16

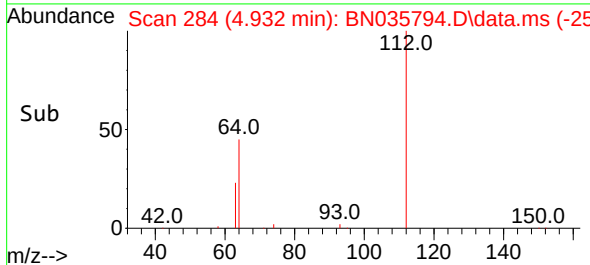
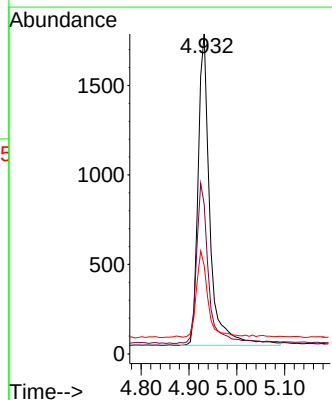
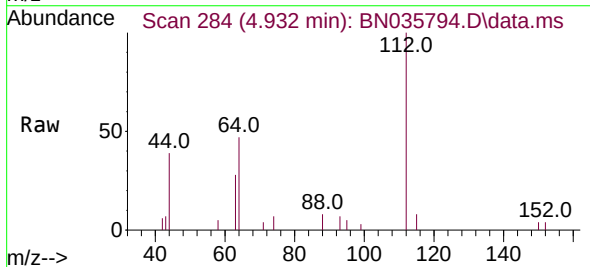
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

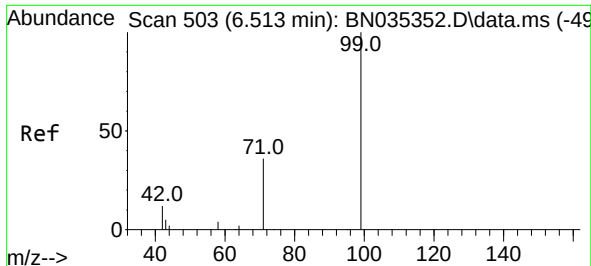
Tgt Ion: 42 Resp: 1052  
Ion Ratio Lower Upper  
42 100  
74 162.6 124.9 187.3  
44 10.1 2.2 3.4#



#4  
2-Fluorophenol  
Concen: 0.369 ng  
RT: 4.932 min Scan# 284  
Delta R.T. -0.007 min  
Lab File: BN035794.D  
Acq: 23 Dec 2024 22:16

Tgt Ion: 112 Resp: 2987  
Ion Ratio Lower Upper  
112 100  
64 51.9 39.8 59.8  
63 26.4 21.0 31.6

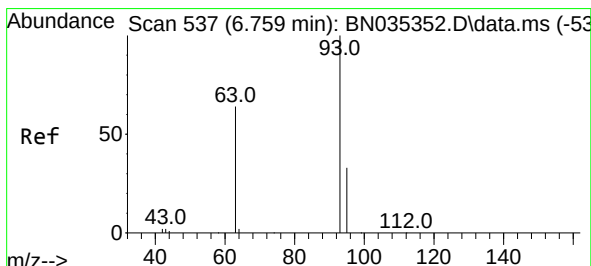
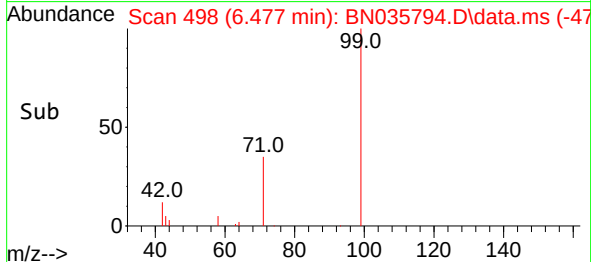
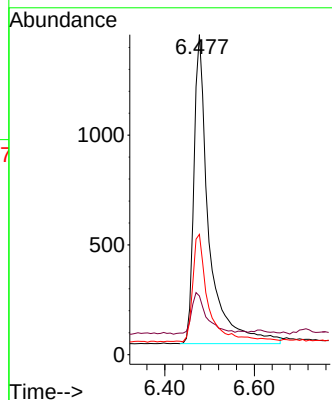
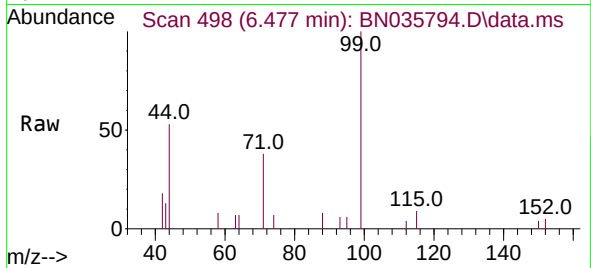




#5  
Phenol-d6  
Concen: 0.338 ng  
RT: 6.477 min Scan# 498  
Delta R.T. -0.015 min  
Lab File: BN035794.D  
Acq: 23 Dec 2024 22:16

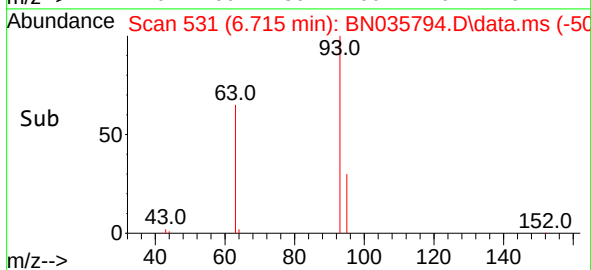
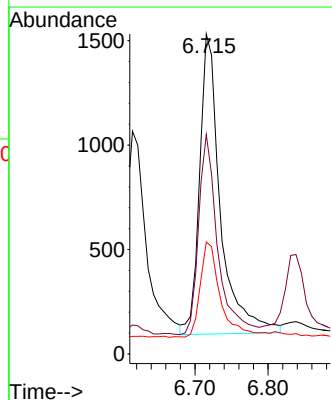
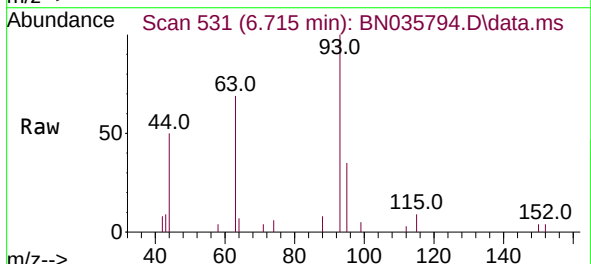
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

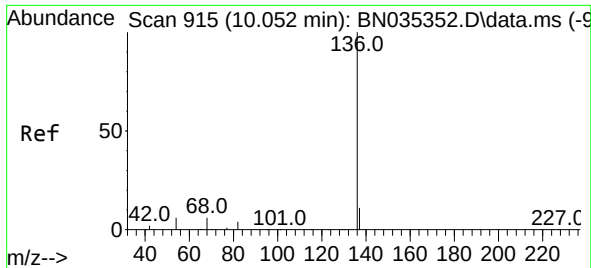
Tgt Ion: 99 Resp: 3287  
Ion Ratio Lower Upper  
99 100  
42 13.9 11.4 17.2  
71 35.3 29.3 43.9



#6  
bis(2-Chloroethyl)ether  
Concen: 0.348 ng  
RT: 6.715 min Scan# 531  
Delta R.T. -0.015 min  
Lab File: BN035794.D  
Acq: 23 Dec 2024 22:16

Tgt Ion: 93 Resp: 2845  
Ion Ratio Lower Upper  
93 100  
63 61.5 50.4 75.6  
95 30.1 25.7 38.5

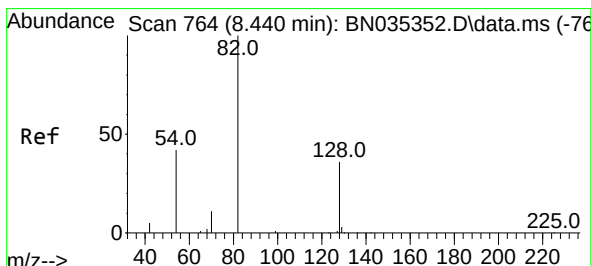
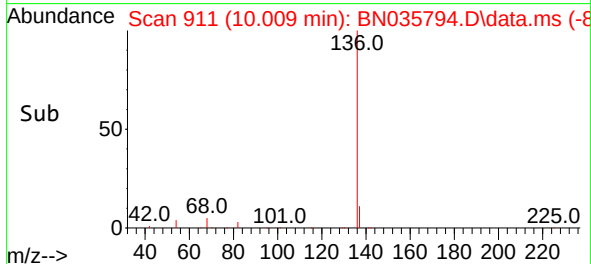
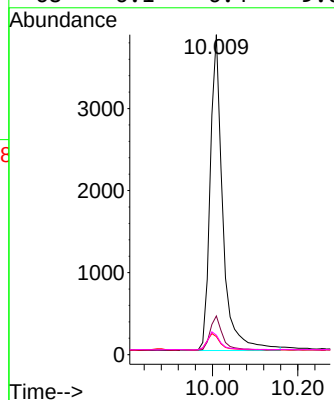
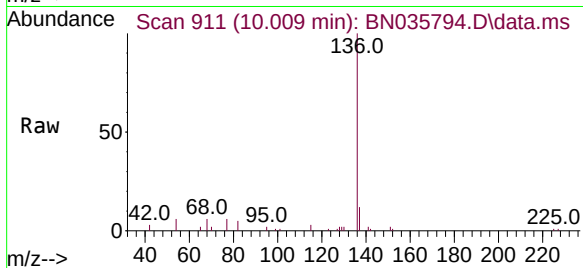




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.009 min Scan# 915  
Delta R.T. -0.011 min  
Lab File: BN035794.D  
Acq: 23 Dec 2024 22:16

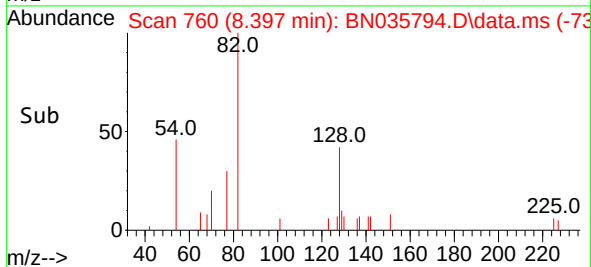
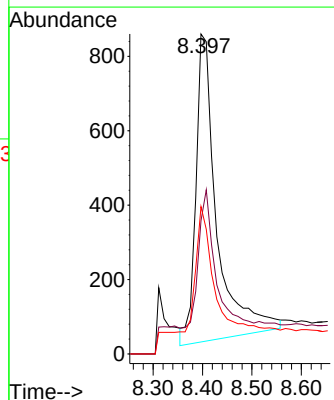
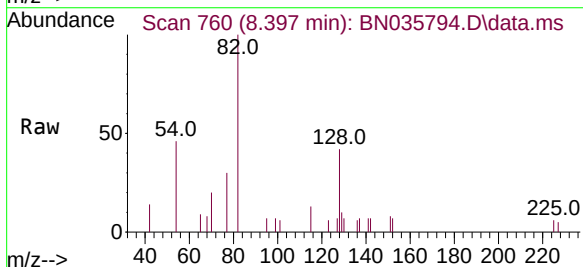
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 136   | Resp: | 7877 |
| Ion Ratio | Lower | Upper |      |
| 136       | 100   |       |      |
| 137       | 12.1  | 10.2  | 15.2 |
| 54        | 5.7   | 6.1   | 9.1# |
| 68        | 6.1   | 6.4   | 9.6# |

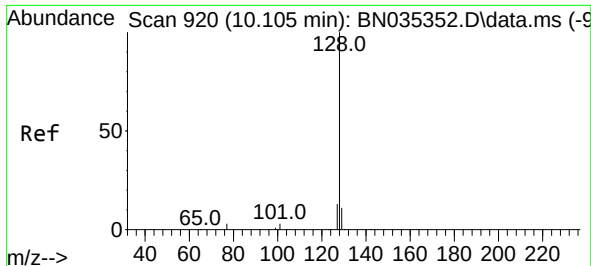


#8  
Nitrobenzene-d5  
Concen: 0.508 ng  
RT: 8.397 min Scan# 760  
Delta R.T. -0.011 min  
Lab File: BN035794.D  
Acq: 23 Dec 2024 22:16

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 82    | Resp: | 2444 |
| Ion Ratio | Lower | Upper |      |
| 82        | 100   |       |      |
| 128       | 41.6  | 33.4  | 50.0 |
| 54        | 46.0  | 36.7  | 55.1 |



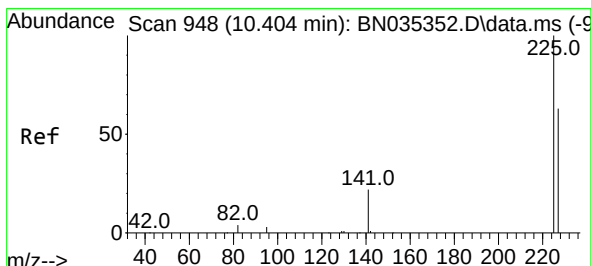
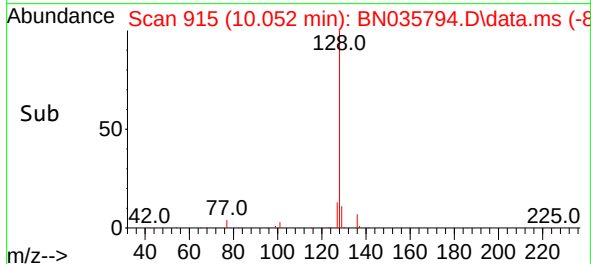
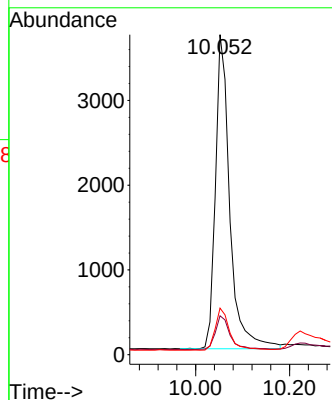
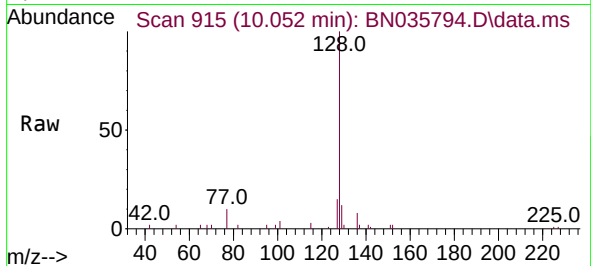




#9  
Naphthalene  
Concen: 0.379 ng  
RT: 10.052 min Scan# 915  
Delta R.T. -0.011 min  
Lab File: BN035794.D  
Acq: 23 Dec 2024 22:16

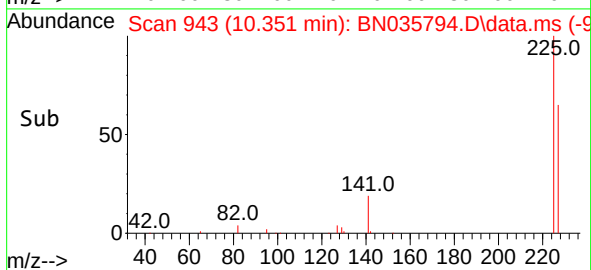
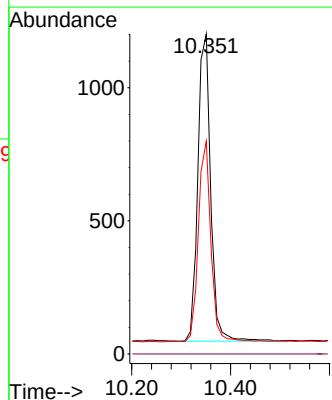
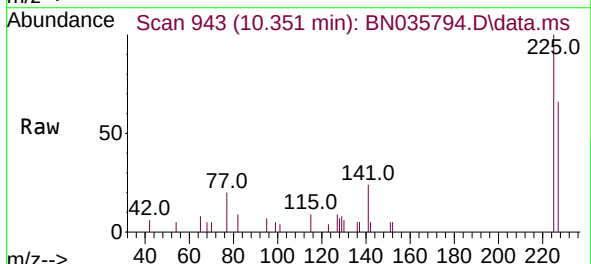
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

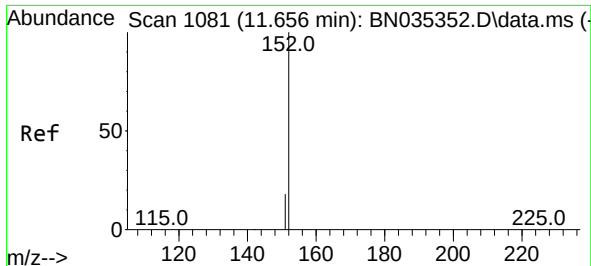
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 7865  |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 129      | 12.2  | 9.8   | 14.6  |
| 127      | 14.6  | 11.4  | 17.2  |



#10  
Hexachlorobutadiene  
Concen: 0.434 ng  
RT: 10.351 min Scan# 943  
Delta R.T. -0.011 min  
Lab File: BN035794.D  
Acq: 23 Dec 2024 22:16

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 225   | Resp: | 2082  |
| Ion      | Ratio | Lower | Upper |
| 225      | 100   |       |       |
| 223      | 0.0   | 0.0   | 0.0   |
| 227      | 63.8  | 51.3  | 76.9  |

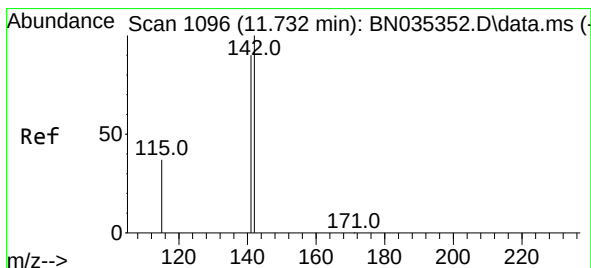
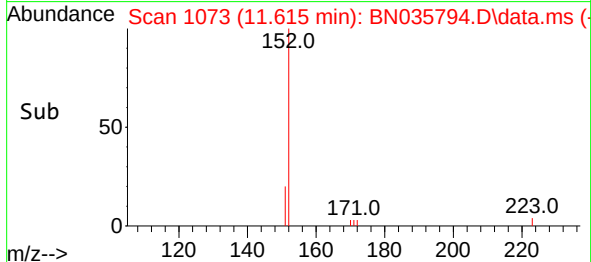
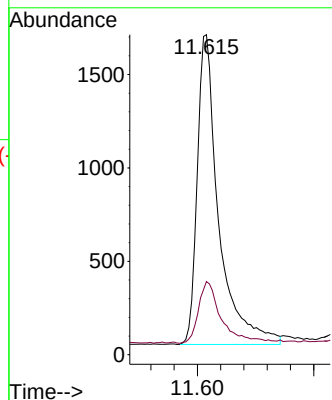
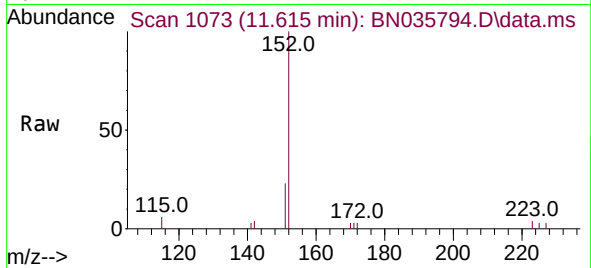




#11  
2-Methylnaphthalene-d10  
Concen: 0.345 ng  
RT: 11.615 min Scan# 1073  
Delta R.T. -0.005 min  
Lab File: BN035794.D  
Acq: 23 Dec 2024 22:16

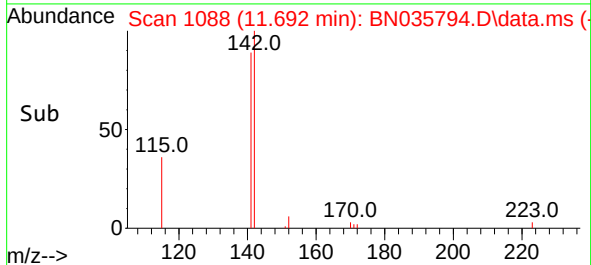
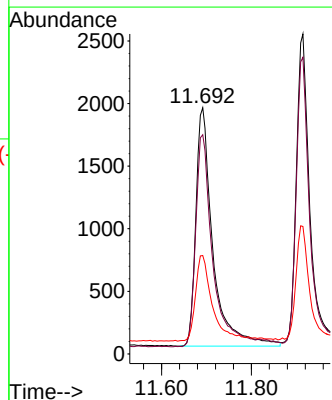
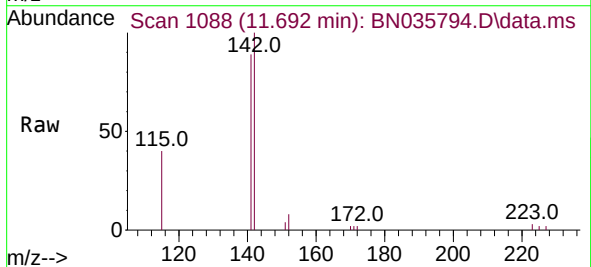
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

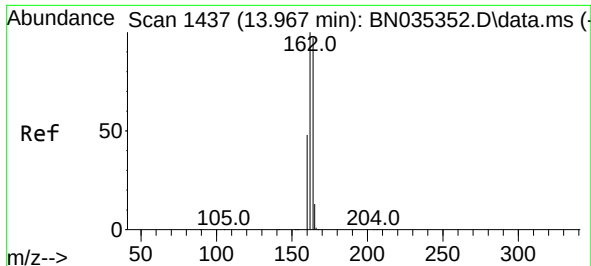
Tgt Ion:152 Resp: 4254  
Ion Ratio Lower Upper  
152 100  
151 21.5 16.6 25.0



#12  
2-Methylnaphthalene  
Concen: 0.338 ng  
RT: 11.692 min Scan# 1088  
Delta R.T. -0.005 min  
Lab File: BN035794.D  
Acq: 23 Dec 2024 22:16

Tgt Ion:142 Resp: 5023  
Ion Ratio Lower Upper  
142 100  
141 89.0 72.2 108.4  
115 40.0 31.4 47.0

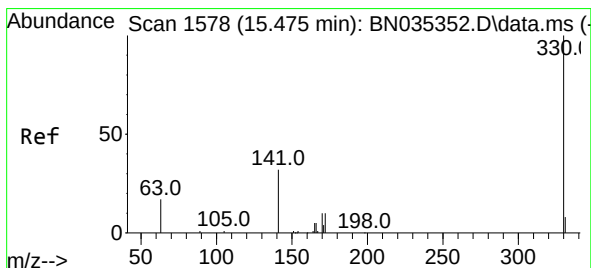
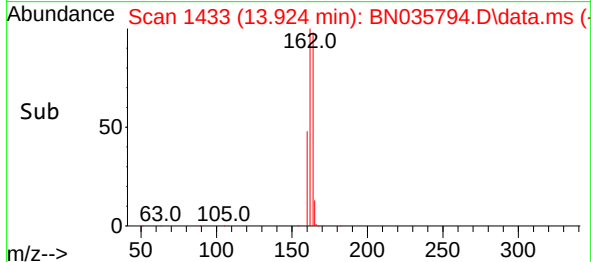
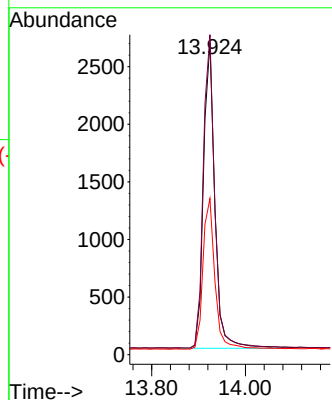
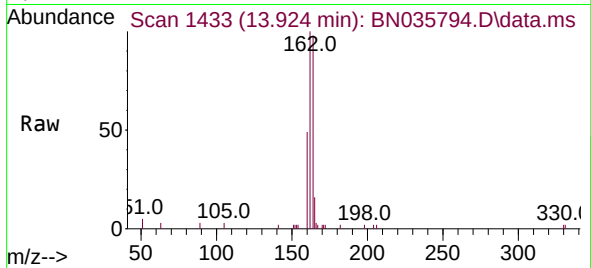




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.924 min Scan# 1433  
Delta R.T. -0.011 min  
Lab File: BN035794.D  
Acq: 23 Dec 2024 22:16

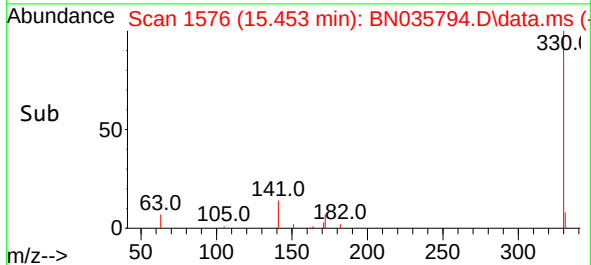
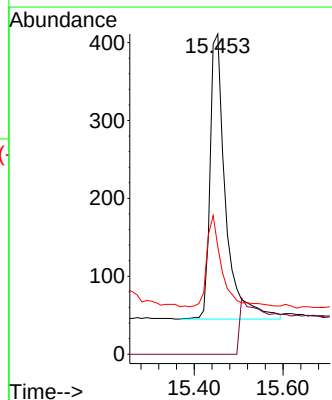
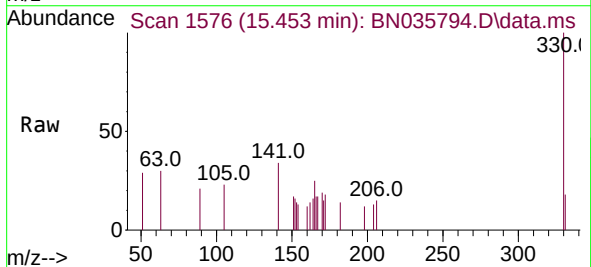
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

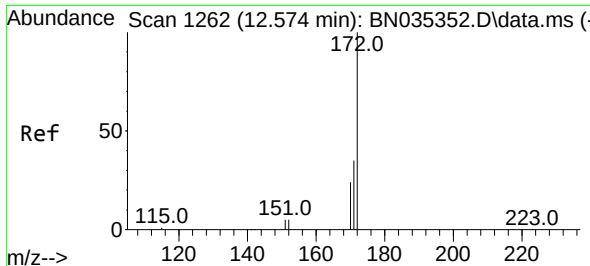
Tgt Ion:164 Resp: 4482  
Ion Ratio Lower Upper  
164 100  
162 102.4 82.2 123.2  
160 50.0 40.1 60.1



#14  
2,4,6-Tribromophenol  
Concen: 0.293 ng  
RT: 15.453 min Scan# 1576  
Delta R.T. -0.000 min  
Lab File: BN035794.D  
Acq: 23 Dec 2024 22:16

Tgt Ion:330 Resp: 932  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 30.8 26.6 40.0

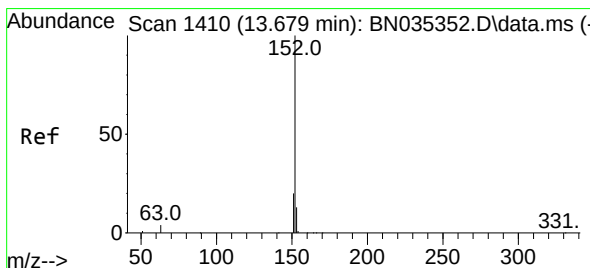
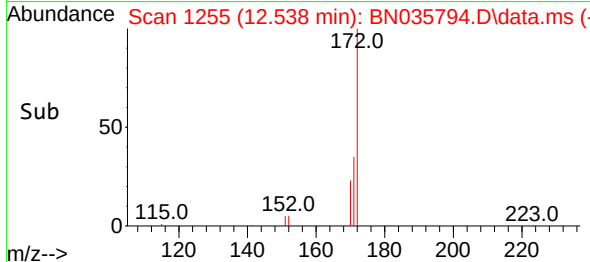
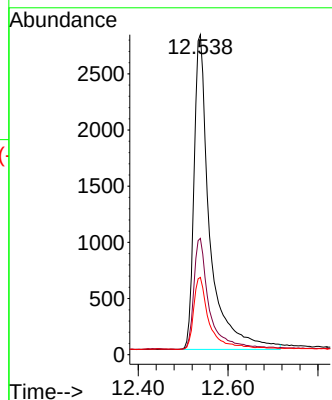
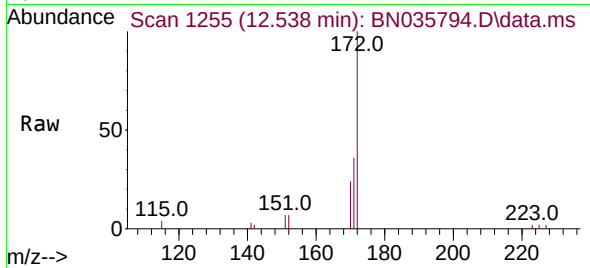




#15  
2-Fluorobiphenyl  
Concen: 0.405 ng  
RT: 12.538 min Scan# 11  
Delta R.T. -0.005 min  
Lab File: BN035794.D  
Acq: 23 Dec 2024 22:16

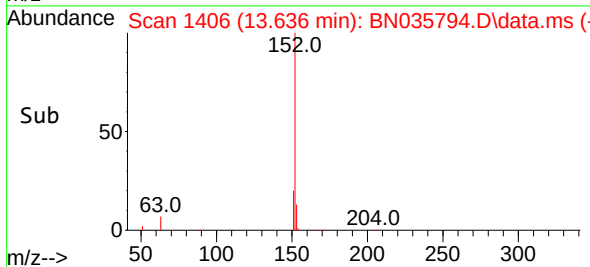
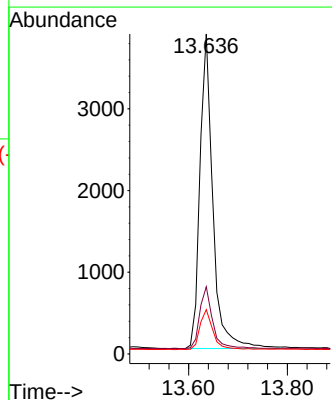
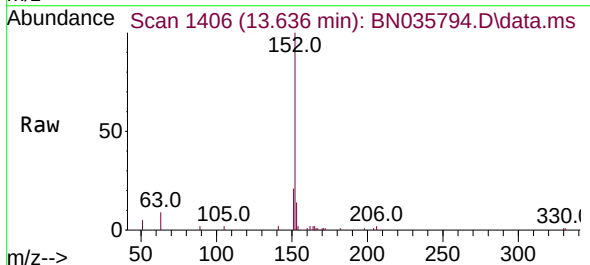
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

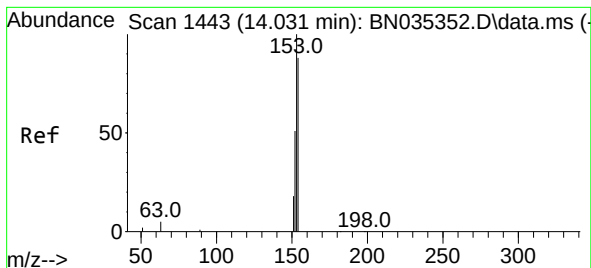
Tgt Ion:172 Resp: 6854  
Ion Ratio Lower Upper  
172 100  
171 36.4 29.0 43.4  
170 24.1 19.8 29.8



#16  
Acenaphthylene  
Concen: 0.372 ng  
RT: 13.636 min Scan# 1406  
Delta R.T. -0.011 min  
Lab File: BN035794.D  
Acq: 23 Dec 2024 22:16

Tgt Ion:152 Resp: 6992  
Ion Ratio Lower Upper  
152 100  
151 19.6 16.2 24.2  
153 13.2 10.4 15.6





#17

Acenaphthene

Concen: 0.377 ng

RT: 13.989 min Scan# 1443

Delta R.T. -0.011 min

Lab File: BN035794.D

Acq: 23 Dec 2024 22:16

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

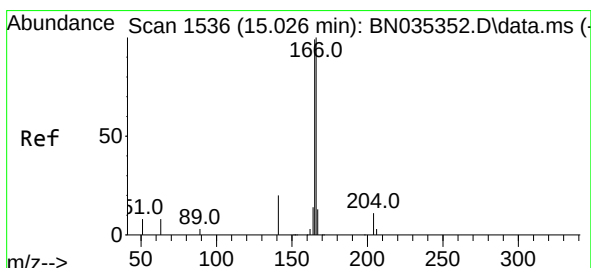
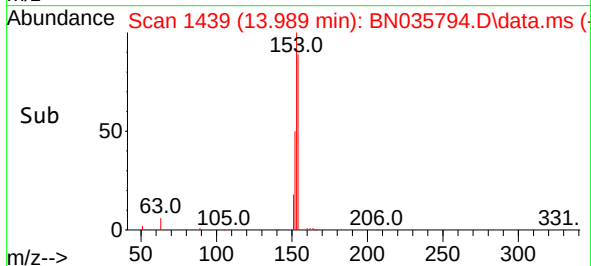
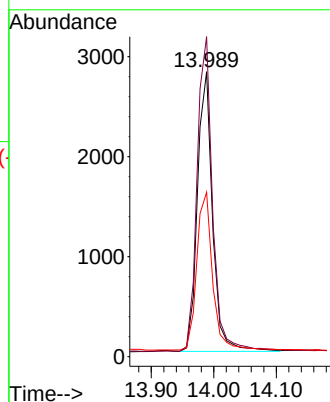
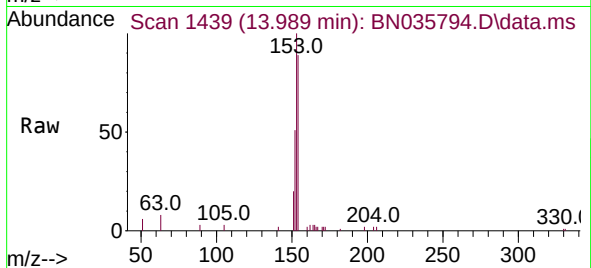
Tgt Ion:154 Resp: 4714

Ion Ratio Lower Upper

154 100

153 115.7 92.6 139.0

152 59.2 49.0 73.6



#18

Fluorene

Concen: 0.336 ng

RT: 14.993 min Scan# 1533

Delta R.T. -0.011 min

Lab File: BN035794.D

Acq: 23 Dec 2024 22:16

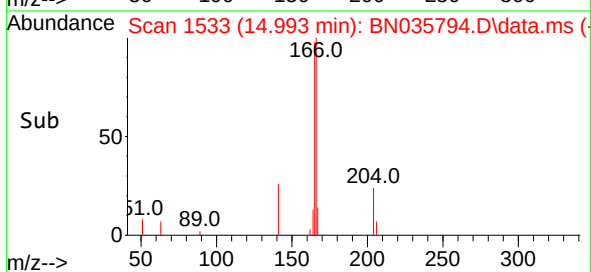
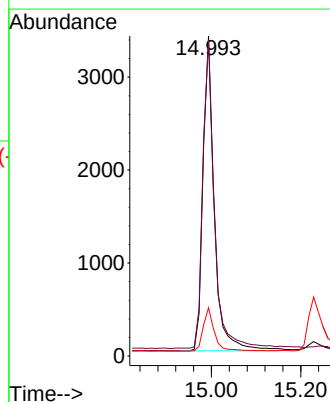
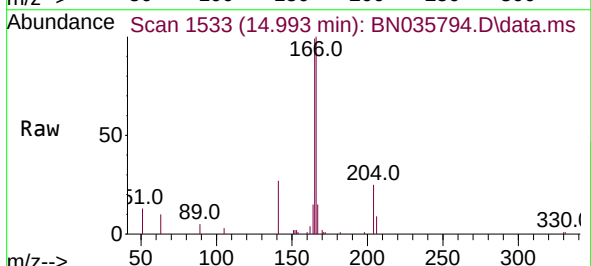
Tgt Ion:166 Resp: 6004

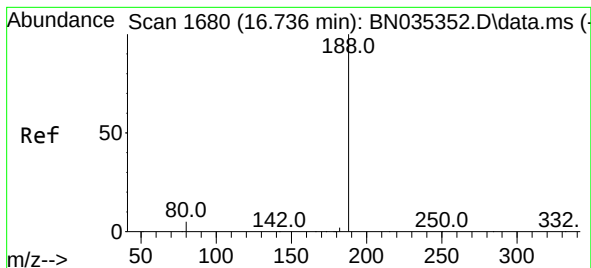
Ion Ratio Lower Upper

166 100

165 99.4 79.7 119.5

167 13.5 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.698 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN035794.D

Acq: 23 Dec 2024 22:16

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

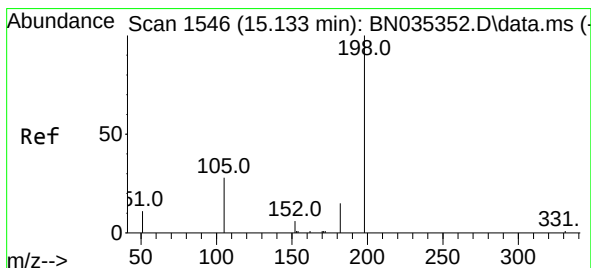
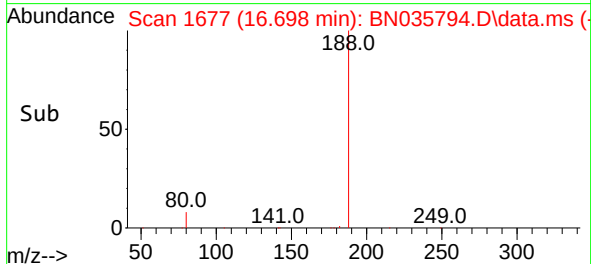
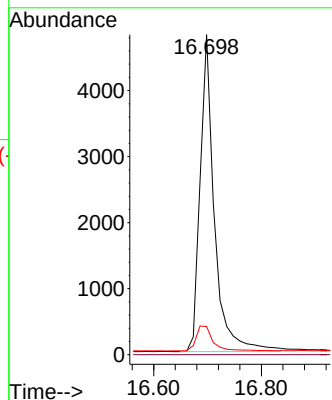
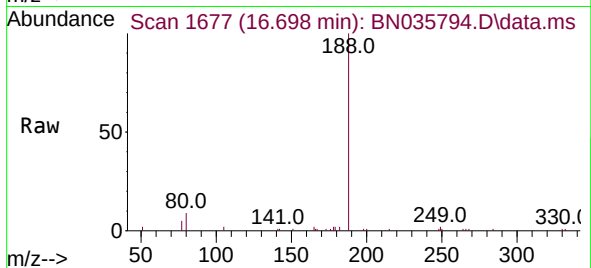
Tgt Ion:188 Resp: 8845

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.8 4.6 6.8#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.254 ng

RT: 15.132 min Scan# 1546

Delta R.T. 0.010 min

Lab File: BN035794.D

Acq: 23 Dec 2024 22:16

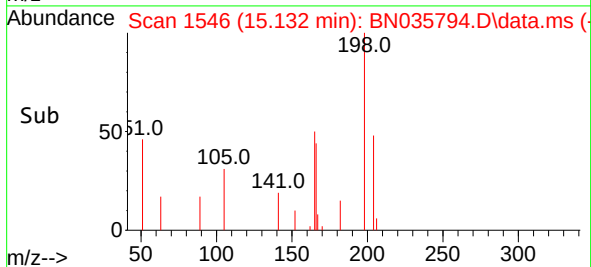
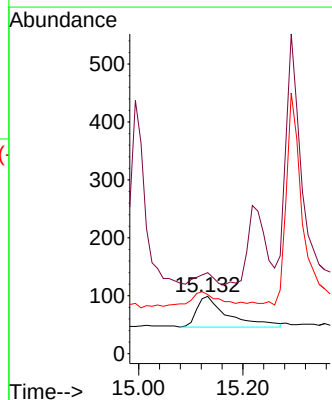
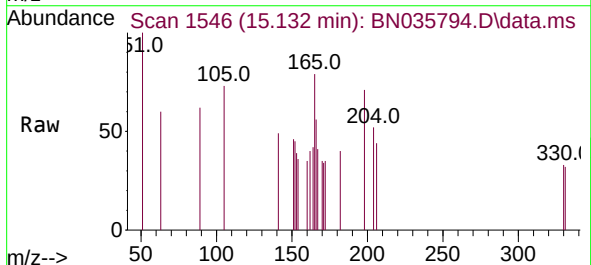
Tgt Ion:198 Resp: 221

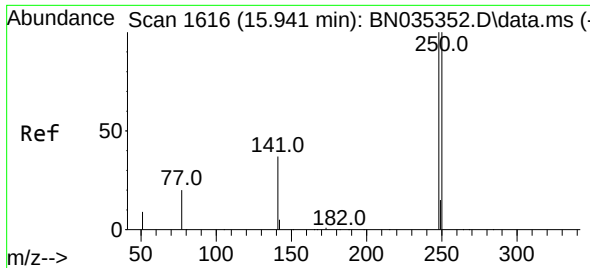
Ion Ratio Lower Upper

198 100

51 141.4 46.5 69.7#

105 103.0 45.3 67.9#

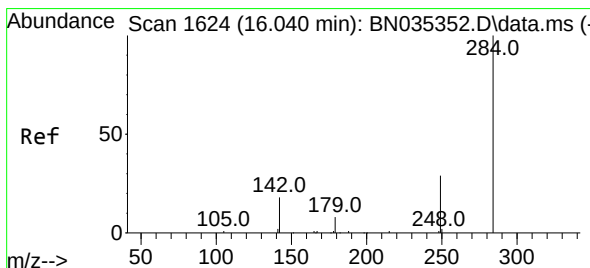
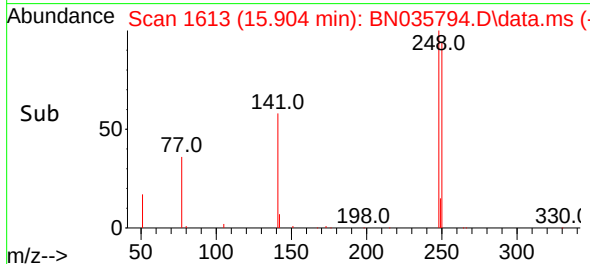
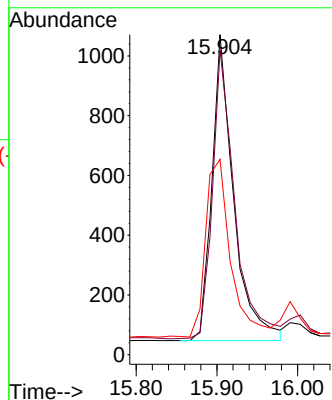
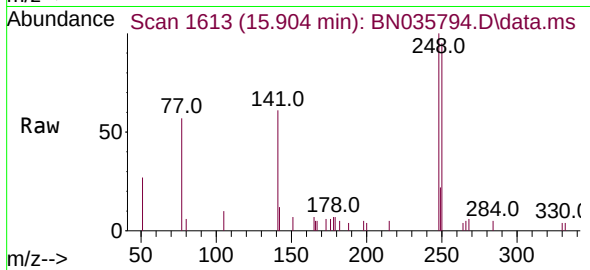




#21  
4-Bromophenyl-phenylether  
Concen: 0.371 ng  
RT: 15.904 min Scan# 1613  
Delta R.T. -0.013 min  
Lab File: BN035794.D  
Acq: 23 Dec 2024 22:16

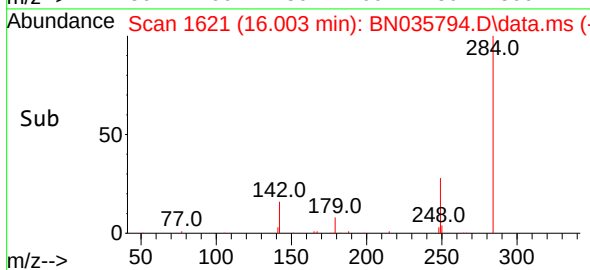
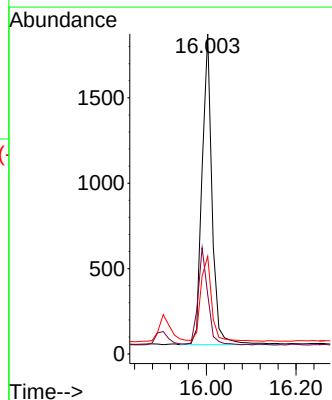
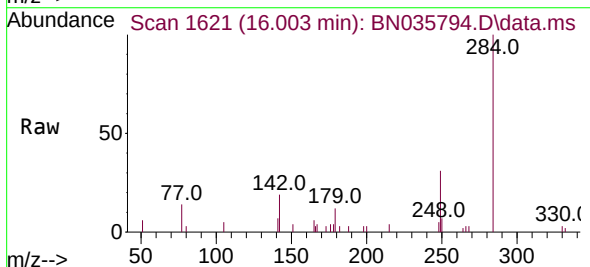
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

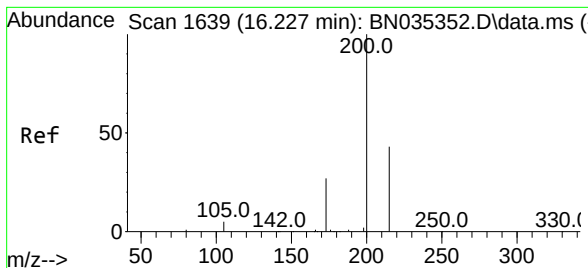
Tgt Ion:248 Resp: 1918  
Ion Ratio Lower Upper  
248 100  
250 95.3 80.6 120.8  
141 61.1 31.5 47.3#



#22  
Hexachlorobenzene  
Concen: 0.462 ng  
RT: 16.003 min Scan# 1621  
Delta R.T. -0.013 min  
Lab File: BN035794.D  
Acq: 23 Dec 2024 22:16

Tgt Ion:284 Resp: 2804  
Ion Ratio Lower Upper  
284 100  
142 30.7 26.7 40.1  
249 30.0 24.6 36.8





#23

Atrazine

Concen: 0.363 ng

RT: 16.202 min Scan# 1637

Delta R.T. -0.000 min

Lab File: BN035794.D

Acq: 23 Dec 2024 22:16

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

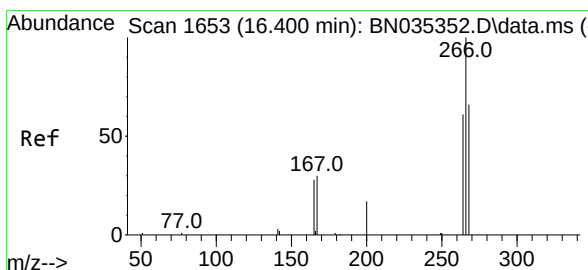
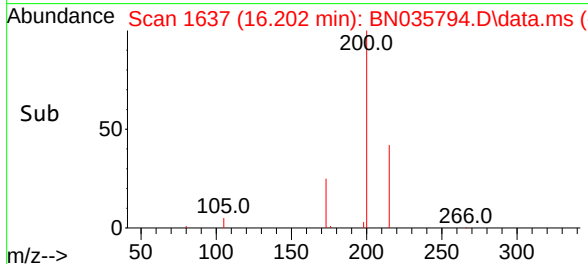
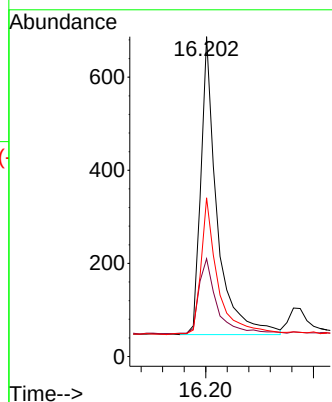
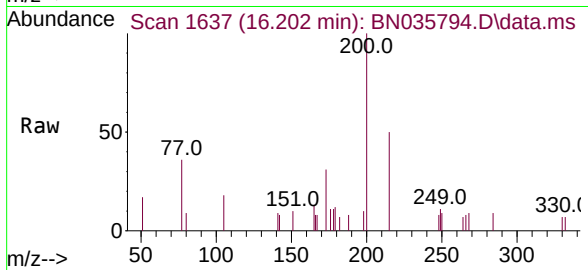
Tgt Ion:200 Resp: 1338

Ion Ratio Lower Upper

200 100

173 30.6 24.1 36.1

215 49.6 36.9 55.3



#24

Pentachlorophenol

Concen: 0.296 ng

RT: 16.375 min Scan# 1651

Delta R.T. -0.000 min

Lab File: BN035794.D

Acq: 23 Dec 2024 22:16

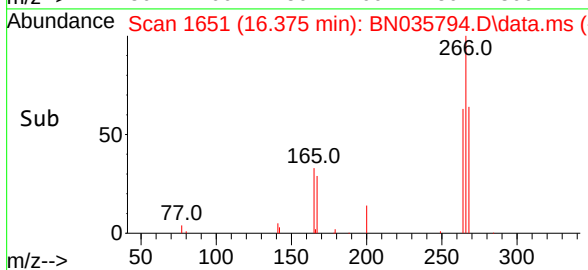
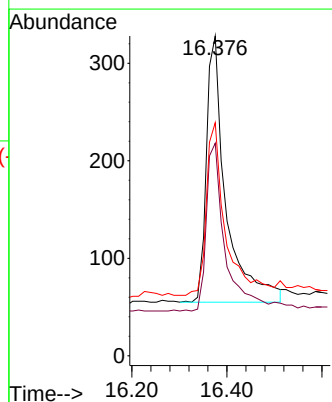
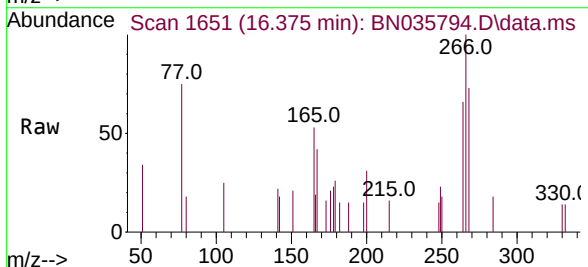
Tgt Ion:266 Resp: 783

Ion Ratio Lower Upper

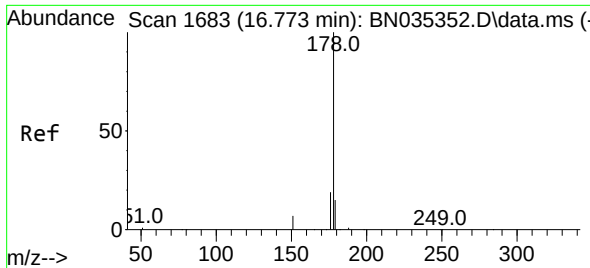
266 100

264 62.1 42.3 63.5

268 63.6 43.3 64.9



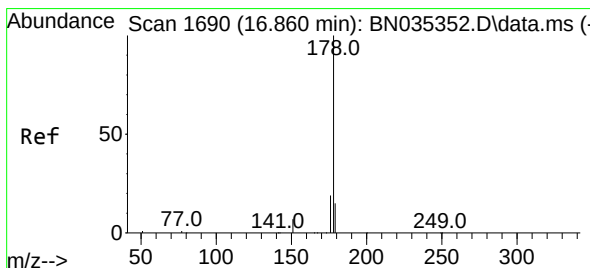
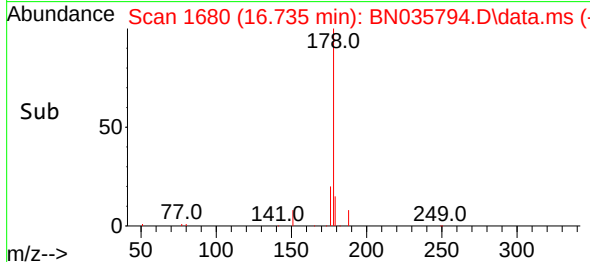
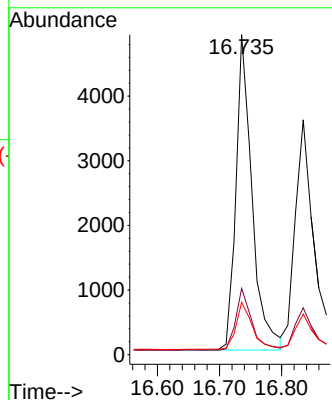
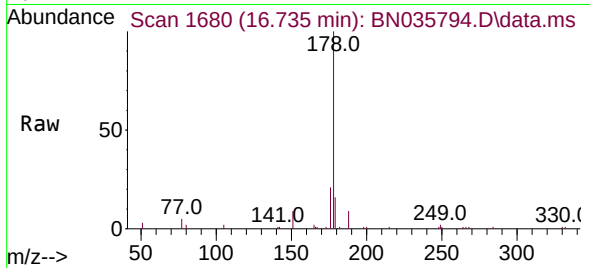




#25  
Phenanthrene  
Concen: 0.363 ng  
RT: 16.735 min Scan# 1680  
Delta R.T. -0.013 min  
Lab File: BN035794.D  
Acq: 23 Dec 2024 22:16

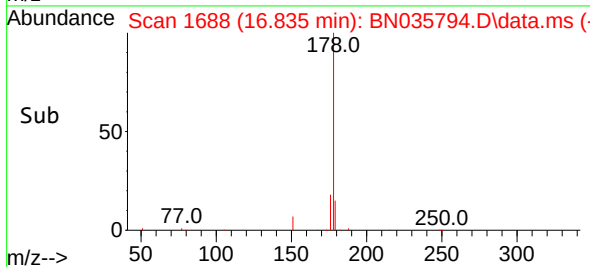
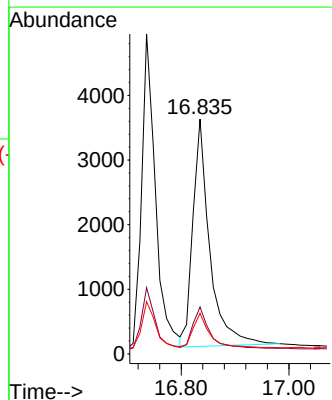
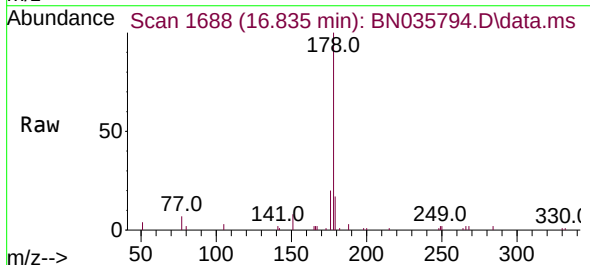
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

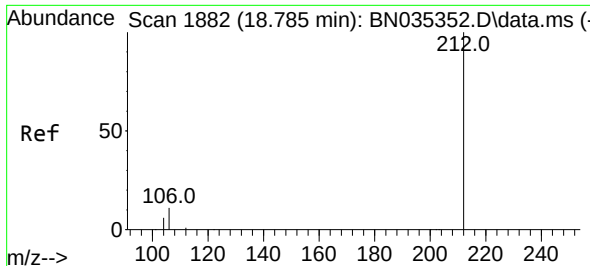
Tgt Ion:178 Resp: 8831  
Ion Ratio Lower Upper  
178 100  
176 19.3 15.4 23.2  
179 15.4 12.3 18.5



#26  
Anthracene  
Concen: 0.349 ng  
RT: 16.835 min Scan# 1688  
Delta R.T. -0.000 min  
Lab File: BN035794.D  
Acq: 23 Dec 2024 22:16

Tgt Ion:178 Resp: 7665  
Ion Ratio Lower Upper  
178 100  
176 18.6 15.0 22.6  
179 15.3 12.6 18.8

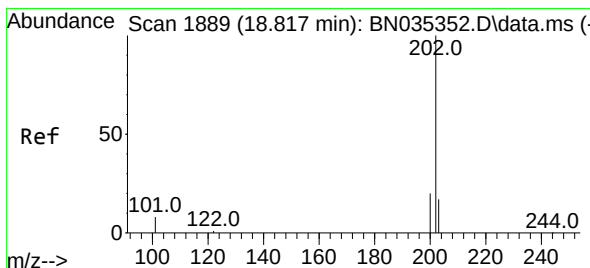
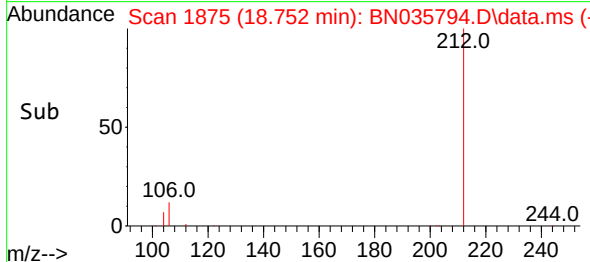
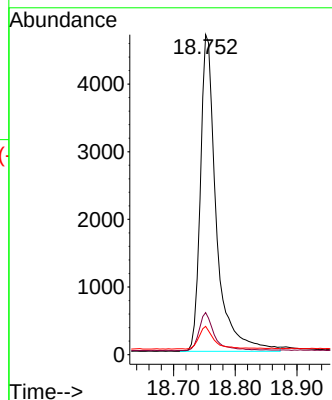
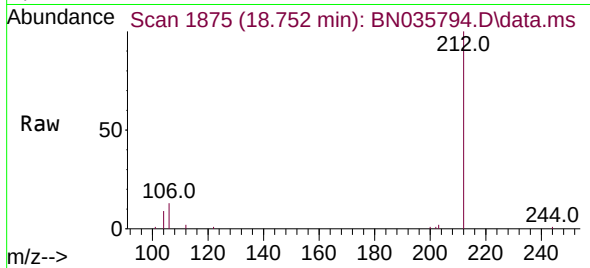




#27  
Fluoranthene-d10  
Concen: 0.335 ng  
RT: 18.752 min Scan# 1882  
Delta R.T. -0.009 min  
Lab File: BN035794.D  
Acq: 23 Dec 2024 22:16

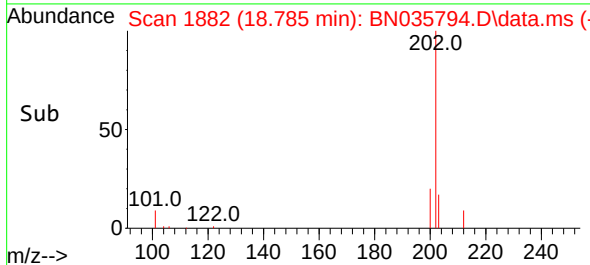
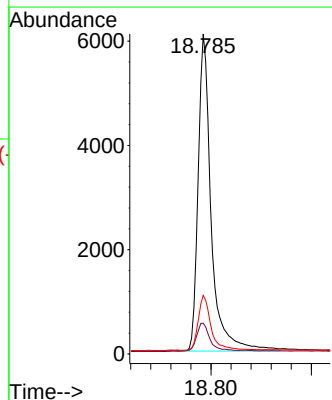
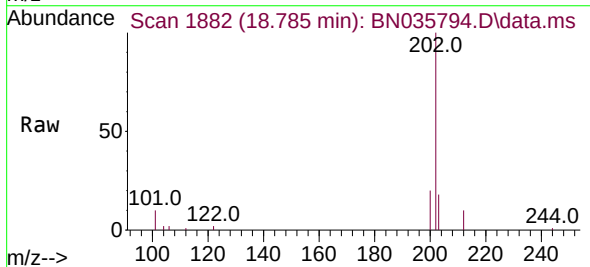
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

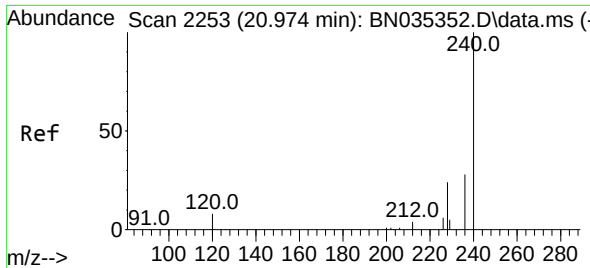
Tgt Ion:212 Resp: 8405  
Ion Ratio Lower Upper  
212 100  
106 11.6 9.2 13.8  
104 6.7 5.3 7.9



#28  
Fluoranthene  
Concen: 0.336 ng  
RT: 18.785 min Scan# 1882  
Delta R.T. -0.005 min  
Lab File: BN035794.D  
Acq: 23 Dec 2024 22:16

Tgt Ion:202 Resp: 11004  
Ion Ratio Lower Upper  
202 100  
101 9.2 7.4 11.0  
203 17.0 13.7 20.5

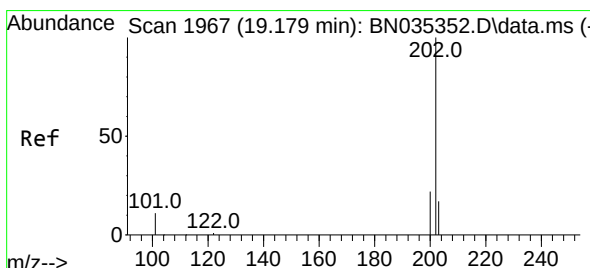
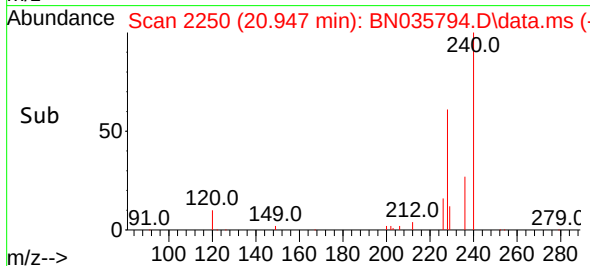
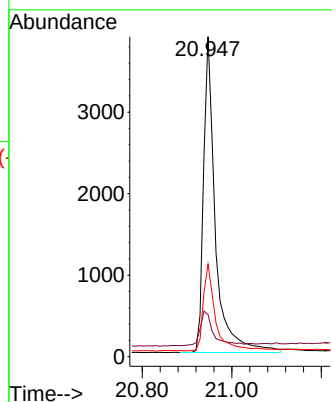
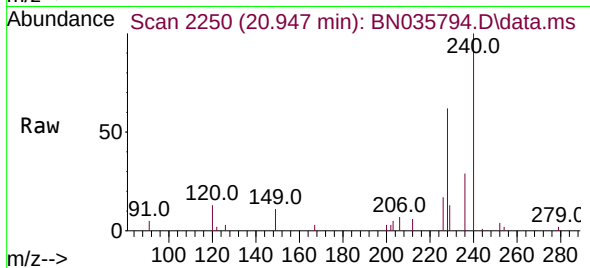




#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 20.947 min Scan# 21  
Delta R.T. -0.009 min  
Lab File: BN035794.D  
Acq: 23 Dec 2024 22:16

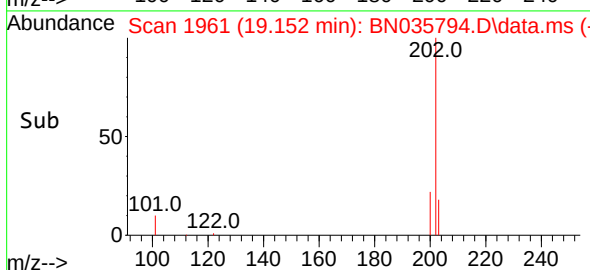
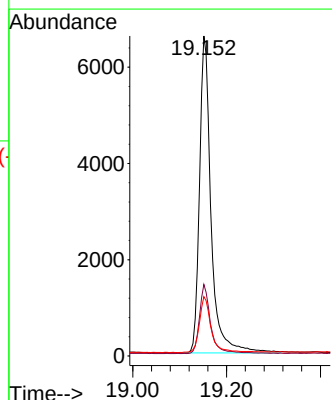
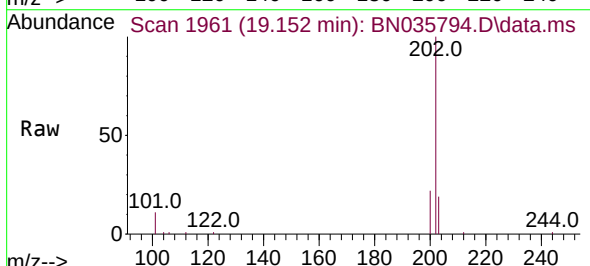
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

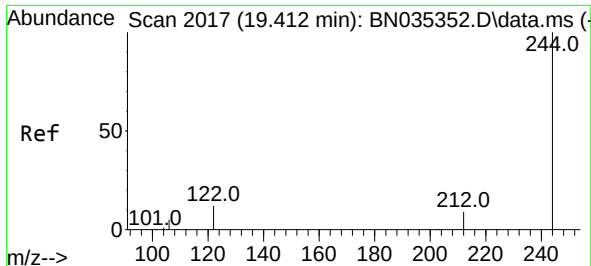
Tgt Ion:240 Resp: 7163  
Ion Ratio Lower Upper  
240 100  
120 13.2 7.9 11.9#  
236 28.9 22.9 34.3



#30  
Pyrene  
Concen: 0.425 ng  
RT: 19.152 min Scan# 1961  
Delta R.T. -0.009 min  
Lab File: BN035794.D  
Acq: 23 Dec 2024 22:16

Tgt Ion:202 Resp: 11228  
Ion Ratio Lower Upper  
202 100  
200 20.8 17.0 25.4  
203 17.7 14.3 21.5

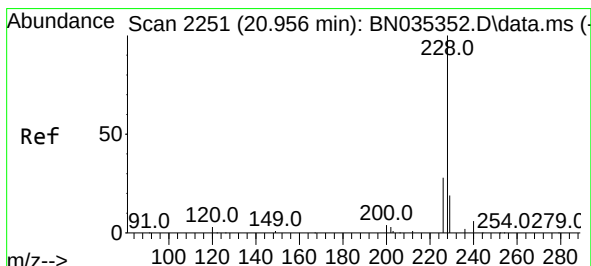
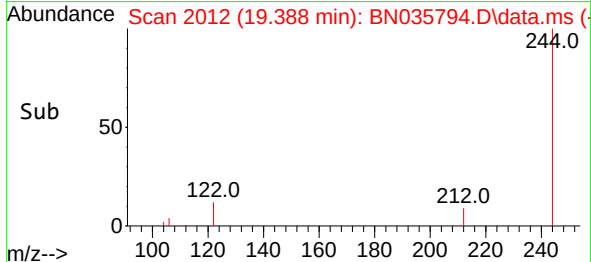
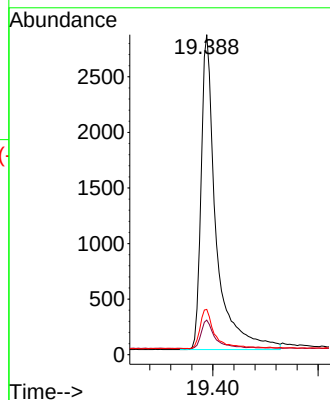
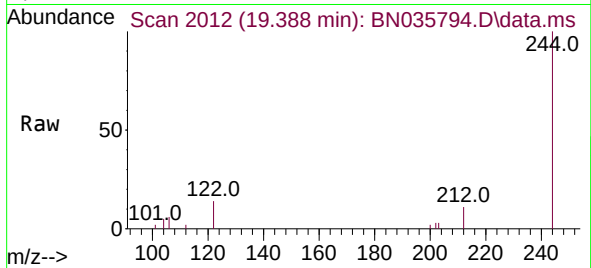




#31  
 Terphenyl-d14  
 Concen: 0.398 ng  
 RT: 19.388 min Scan# 2017  
 Delta R.T. -0.000 min  
 Lab File: BN035794.D  
 Acq: 23 Dec 2024 22:16

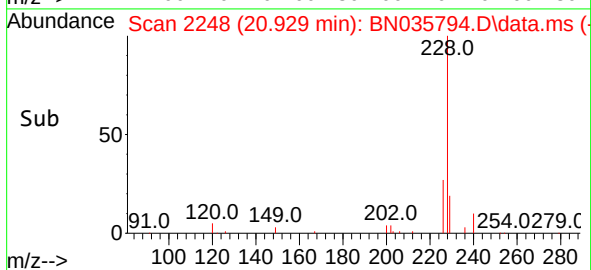
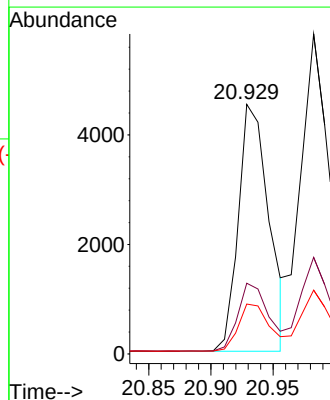
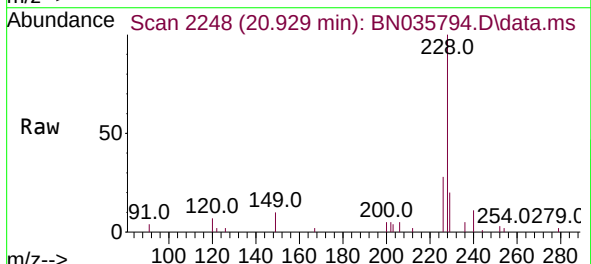
Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4

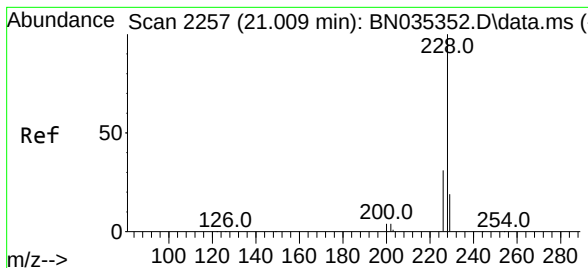
Tgt Ion:244 Resp: 5620  
 Ion Ratio Lower Upper  
 244 100  
 212 10.8 8.1 12.1  
 122 14.2 10.3 15.5



#32  
 Benzo(a)anthracene  
 Concen: 0.308 ng  
 RT: 20.929 min Scan# 2248  
 Delta R.T. -0.009 min  
 Lab File: BN035794.D  
 Acq: 23 Dec 2024 22:16

Tgt Ion:228 Resp: 7716  
 Ion Ratio Lower Upper  
 228 100  
 226 28.3 22.5 33.7  
 229 20.0 15.8 23.8





#33

Chrysene

Concen: 0.431 ng

RT: 20.983 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035794.D

Acq: 23 Dec 2024 22:16

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

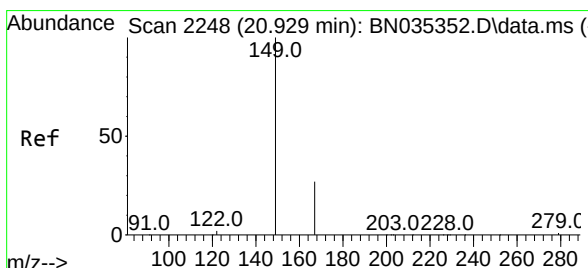
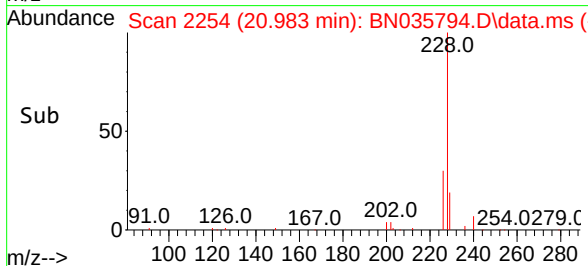
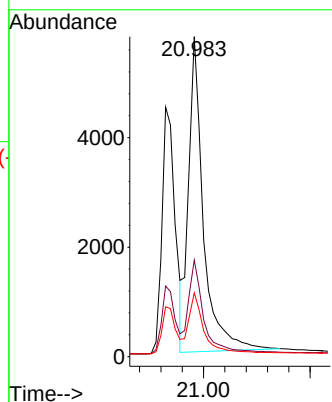
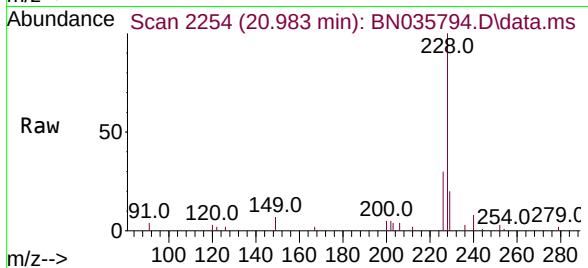
Tgt Ion:228 Resp: 11129

Ion Ratio Lower Upper

228 100

226 30.2 24.6 37.0

229 19.9 15.9 23.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.411 ng

RT: 20.902 min Scan# 2245

Delta R.T. -0.009 min

Lab File: BN035794.D

Acq: 23 Dec 2024 22:16

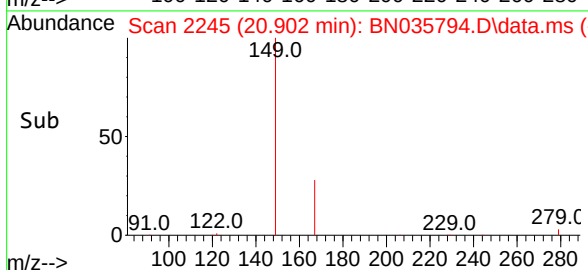
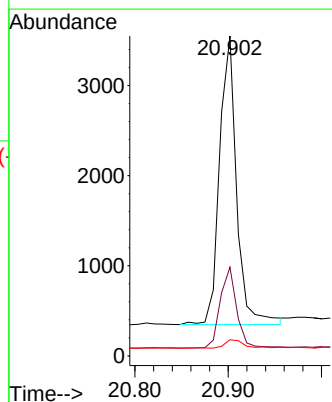
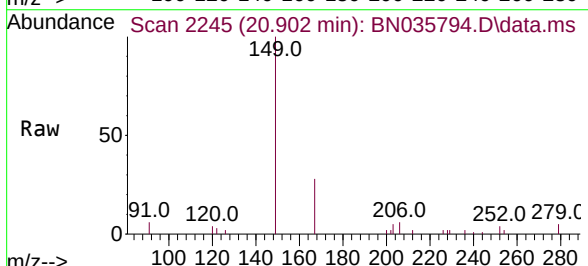
Tgt Ion:149 Resp: 4068

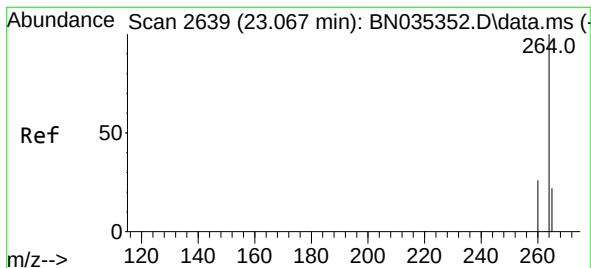
Ion Ratio Lower Upper

149 100

167 27.3 22.2 33.4

279 3.6 2.7 4.1





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.032 min Scan# 2

Delta R.T. -0.009 min

Lab File: BN035794.D

Acq: 23 Dec 2024 22:16

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

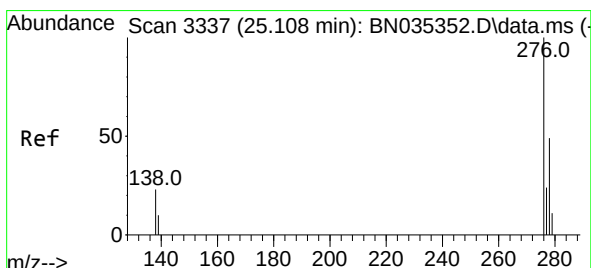
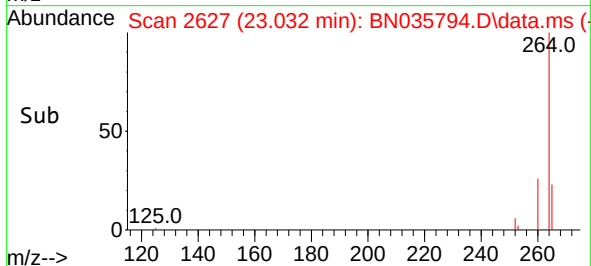
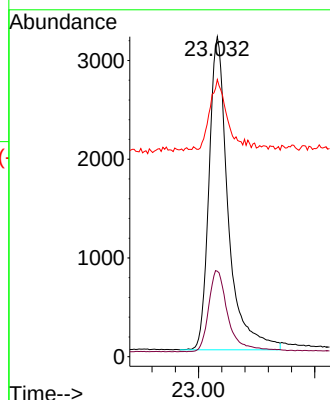
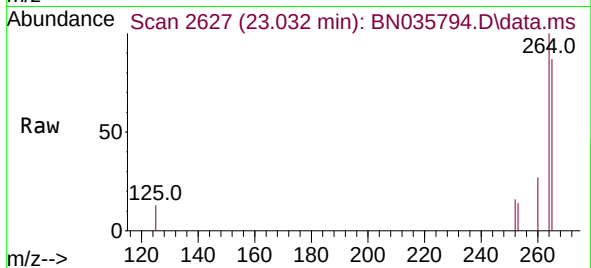
Tgt Ion:264 Resp: 7277

Ion Ratio Lower Upper

264 100

260 26.7 21.4 32.2

265 86.6 40.2 60.4#



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.352 ng

RT: 25.055 min Scan# 3319

Delta R.T. -0.012 min

Lab File: BN035794.D

Acq: 23 Dec 2024 22:16

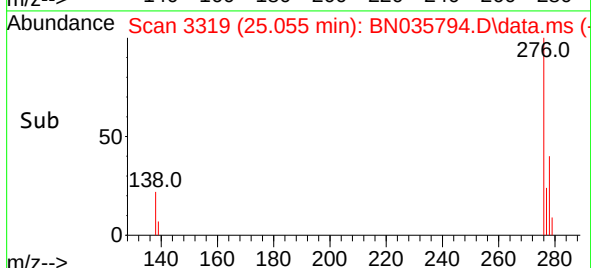
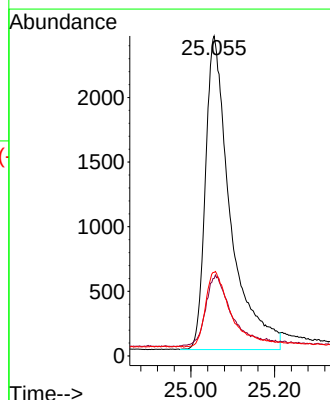
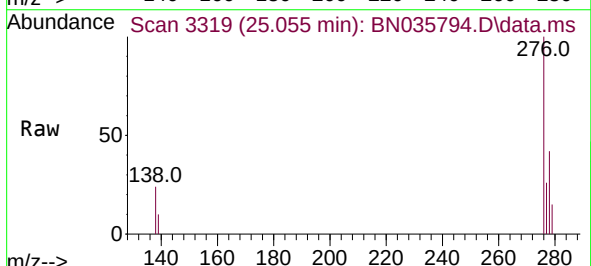
Tgt Ion:276 Resp: 10012

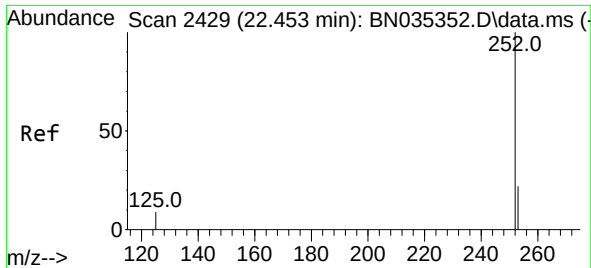
Ion Ratio Lower Upper

276 100

138 22.3 19.4 29.0

277 24.6 19.8 29.6

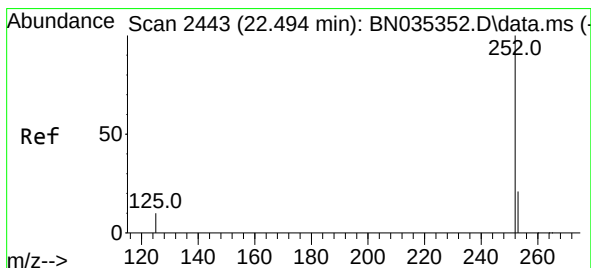
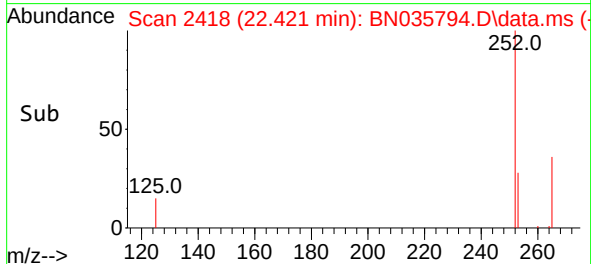
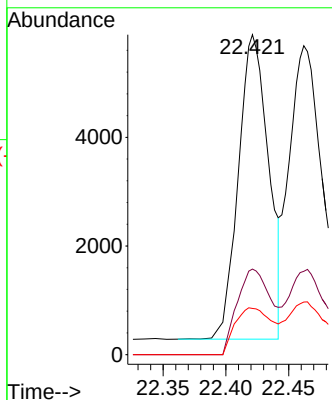
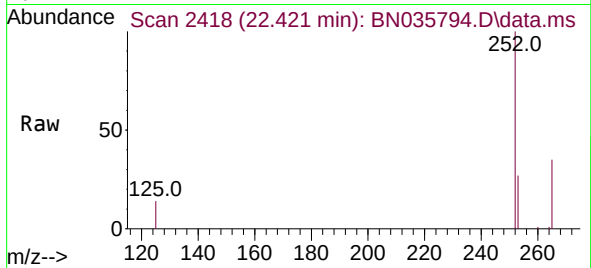




#37  
Benzo(b)fluoranthene  
Concen: 0.533 ng  
RT: 22.421 min Scan# 2418  
Delta R.T. -0.009 min  
Lab File: BN035794.D  
Acq: 23 Dec 2024 22:16

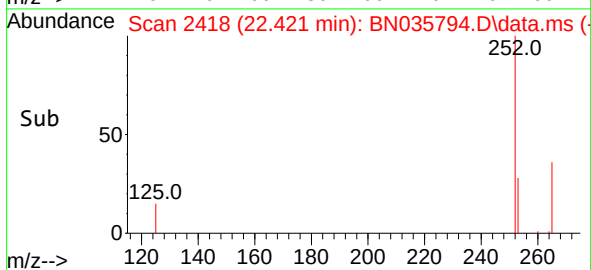
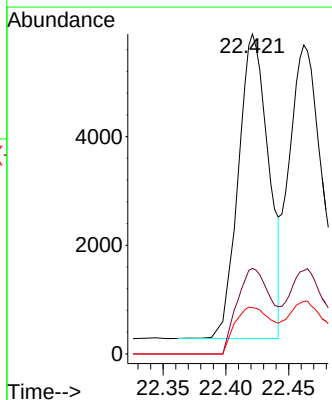
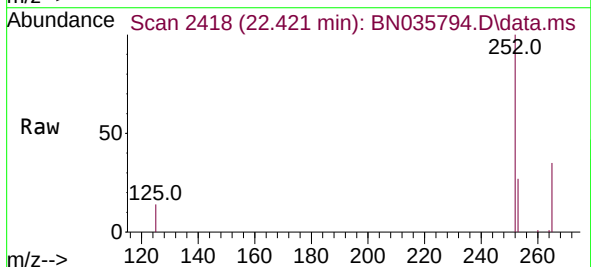
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

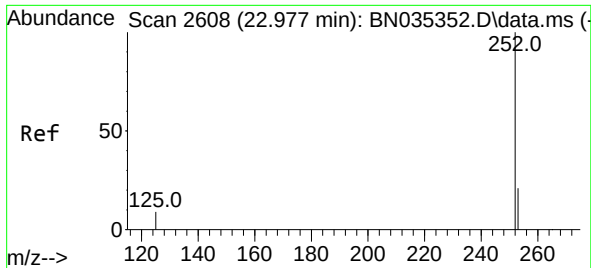
Tgt Ion:252 Resp: 14187  
Ion Ratio Lower Upper  
252 100  
253 26.7 19.6 29.4  
125 14.5 9.6 14.4#



#38  
Benzo(k)fluoranthene  
Concen: 0.541 ng  
RT: 22.421 min Scan# 2418  
Delta R.T. -0.050 min  
Lab File: BN035794.D  
Acq: 23 Dec 2024 22:16

Tgt Ion:252 Resp: 14187  
Ion Ratio Lower Upper  
252 100  
253 26.7 19.5 29.3  
125 14.5 10.2 15.4

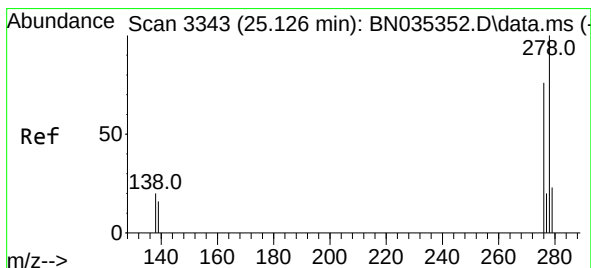
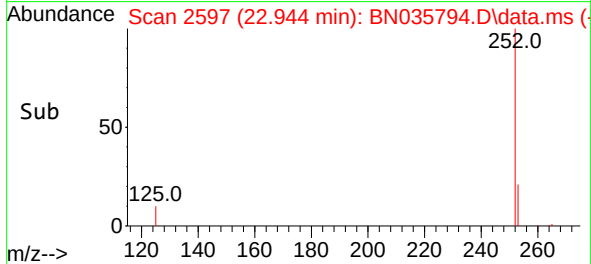
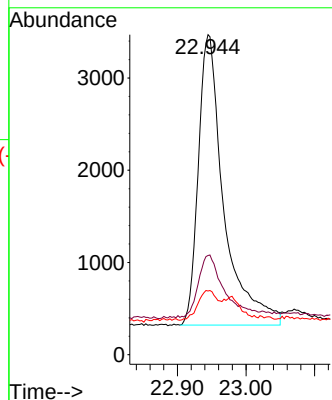
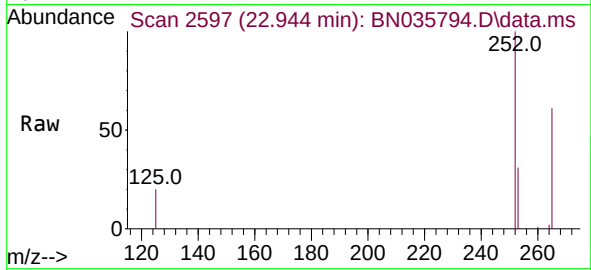




#39  
Benzo(a)pyrene  
Concen: 0.371 ng  
RT: 22.944 min Scan# 21  
Delta R.T. -0.006 min  
Lab File: BN035794.D  
Acq: 23 Dec 2024 22:16

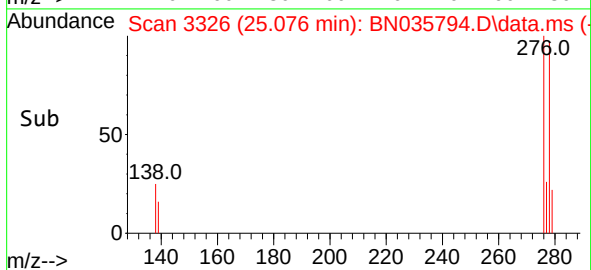
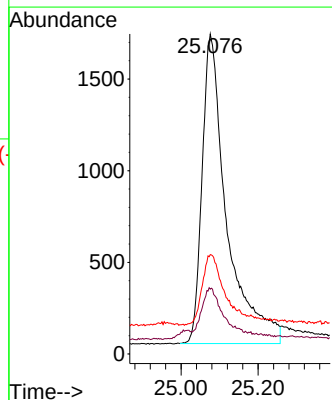
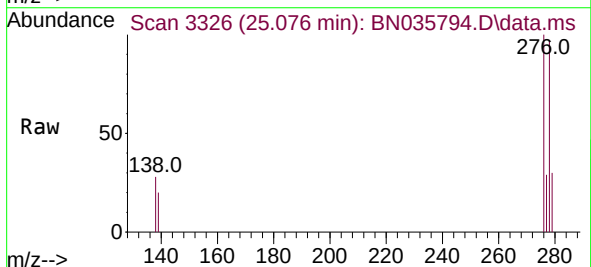
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

Tgt Ion:252 Resp: 8141  
Ion Ratio Lower Upper  
252 100  
253 31.0 20.2 30.4#  
125 19.9 10.9 16.3#

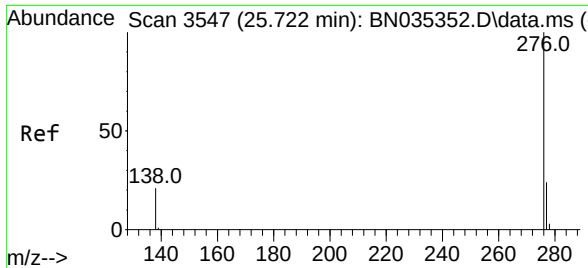


#40  
Dibenzo(a,h)anthracene  
Concen: 0.333 ng  
RT: 25.076 min Scan# 3326  
Delta R.T. -0.006 min  
Lab File: BN035794.D  
Acq: 23 Dec 2024 22:16

Tgt Ion:278 Resp: 7465  
Ion Ratio Lower Upper  
278 100  
139 20.3 14.2 21.4  
279 31.0 20.5 30.7#



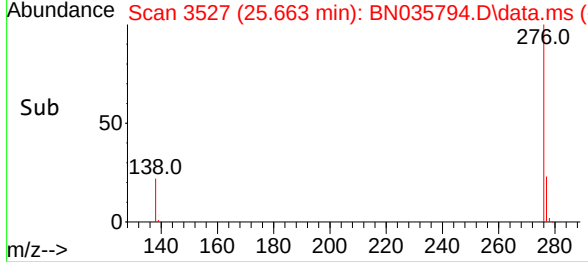
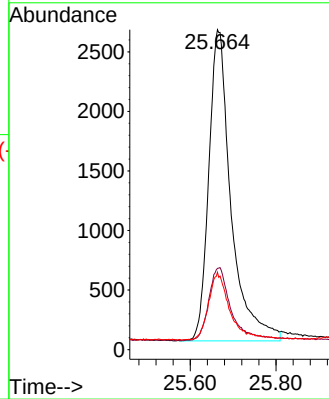
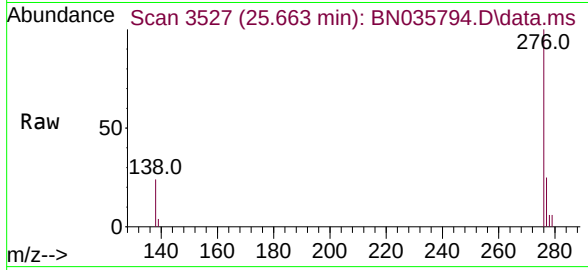




#41  
Benzo(g,h,i)perylene  
Concen: 0.401 ng  
RT: 25.663 min Scan# 31  
Delta R.T. -0.015 min  
Lab File: BN035794.D  
Acq: 23 Dec 2024 22:16

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

Tgt Ion:276 Resp: 9418  
Ion Ratio Lower Upper  
276 100  
277 25.4 19.9 29.9  
138 24.2 17.8 26.8



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN122324\  
 Data File : BN035795.D  
 Acq On : 23 Dec 2024 22:52  
 Operator : RC/JU  
 Sample : PB165667BL  
 Misc :  
 ALS Vial : 77 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 PB165667BL

Quant Time: Dec 24 00:13:30 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Dec 19 23:06:19 2024  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|--------|------|----------|-------|-------|----------|
| -----                       |        |      |          |       |       |          |
| Internal Standards          |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.264  | 152  | 4926     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8           | 10.009 | 136  | 11442    | 0.400 | ng    | -0.01    |
| 13) Acenaphthene-d10        | 13.924 | 164  | 7253     | 0.400 | ng    | -0.01    |
| 19) Phenanthrene-d10        | 16.711 | 188  | 12605    | 0.400 | ng    | # 0.01   |
| 29) Chrysene-d12            | 20.956 | 240  | 9944     | 0.400 | ng    | # 0.00   |
| 35) Perylene-d12            | 23.038 | 264  | 9785     | 0.400 | ng    | # 0.00   |
|                             |        |      |          |       |       |          |
| System Monitoring Compounds |        |      |          |       |       |          |
| 4) 2-Fluorophenol           | 4.932  | 112  | 3783     | 0.307 | ng    | 0.00     |
| 5) Phenol-d6                | 6.484  | 99   | 3587     | 0.242 | ng    | 0.00     |
| 8) Nitrobenzene-d5          | 8.408  | 82   | 3704     | 0.530 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10 | 11.626 | 152  | 6566     | 0.367 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol    | 15.475 | 330  | 426      | 0.083 | ng    | 0.02     |
| 15) 2-Fluorobiphenyl        | 12.549 | 172  | 9720     | 0.355 | ng    | 0.00     |
| 27) Fluoranthene-d10        | 18.761 | 212  | 13649    | 0.382 | ng    | 0.00     |
| 31) Terphenyl-d14           | 19.388 | 244  | 11020    | 0.562 | ng    | 0.00     |

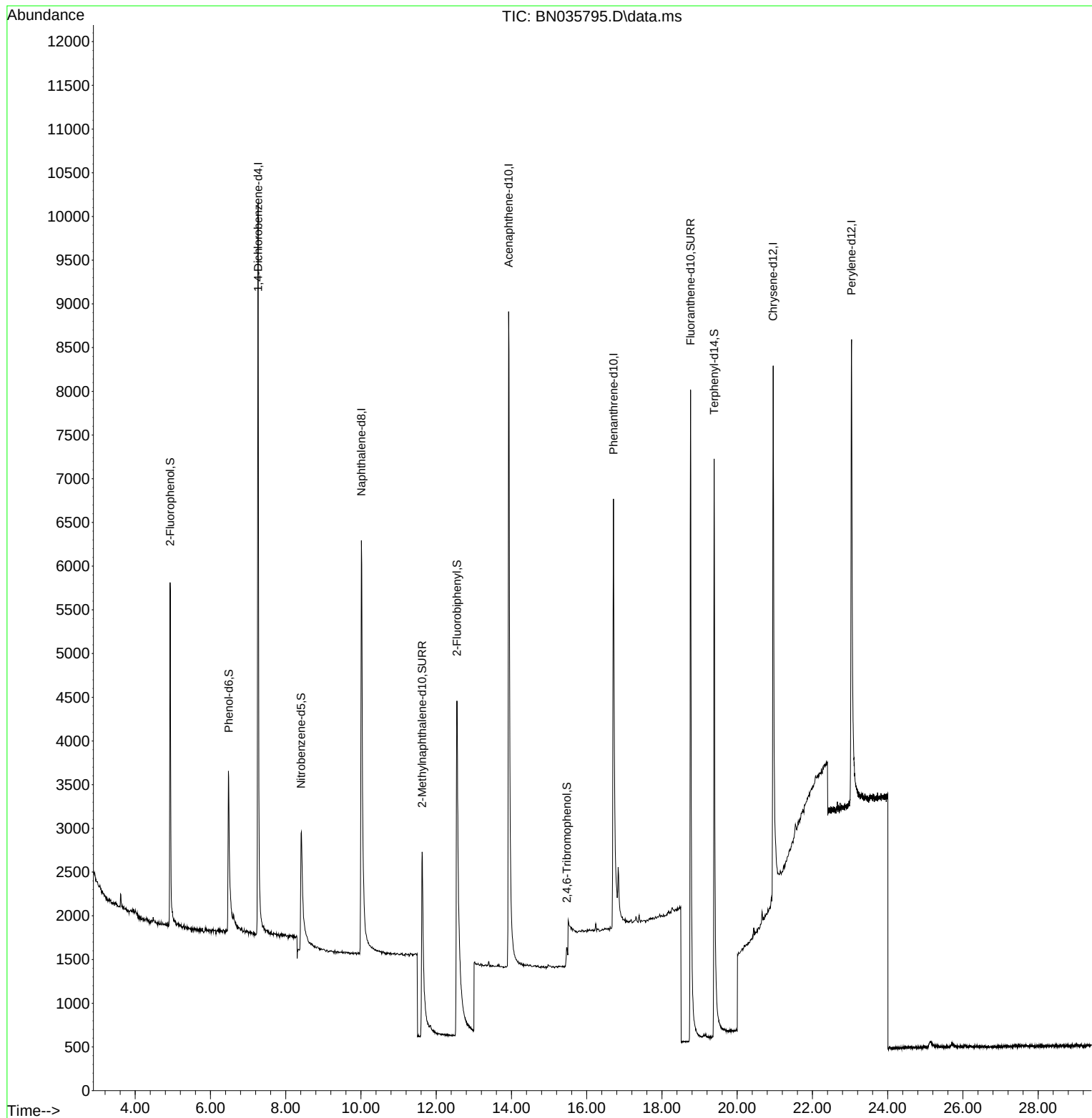
Target Compounds Qvalue

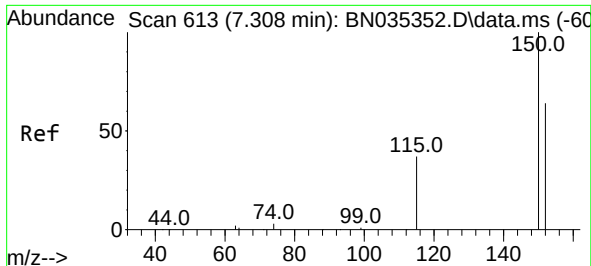
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 (#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN122324\  
Data File : BN035795.D  
Acq On : 23 Dec 2024 22:52  
Operator : RC/JU  
Sample : PB165667BL  
Misc :  
ALS Vial : 77 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
PB165667BL

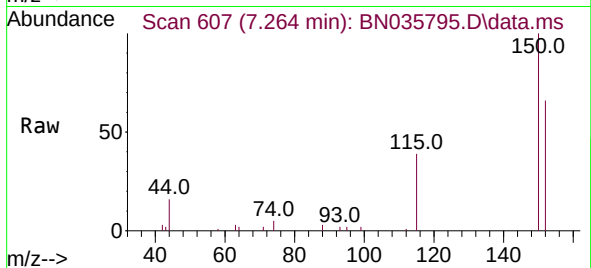
Quant Time: Dec 24 00:13:30 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Dec 19 23:06:19 2024  
Response via : Initial Calibration



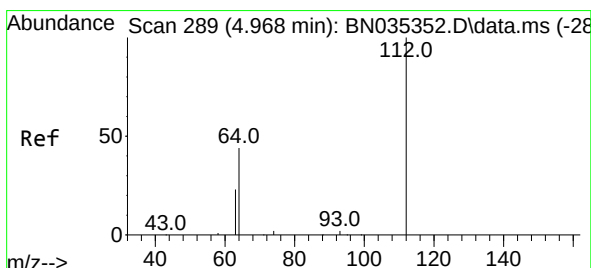
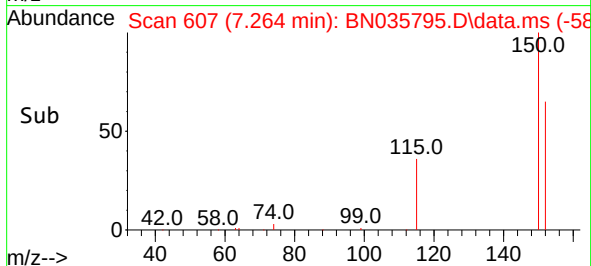
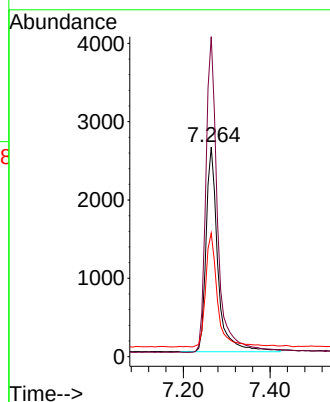


#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.264 min Scan# 613  
Delta R.T. -0.008 min  
Lab File: BN035795.D  
Acq: 23 Dec 2024 22:52

Instrument :  
BNA\_N  
ClientSampleId :  
PB165667BL

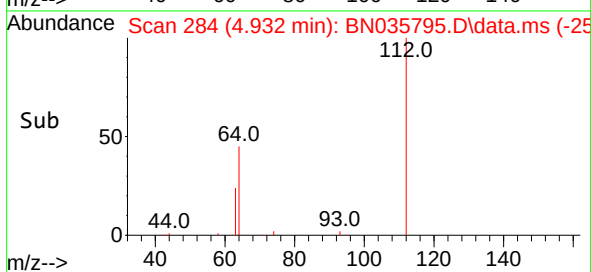
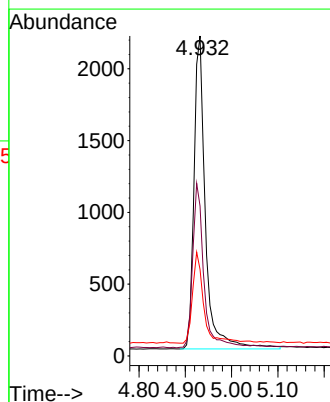
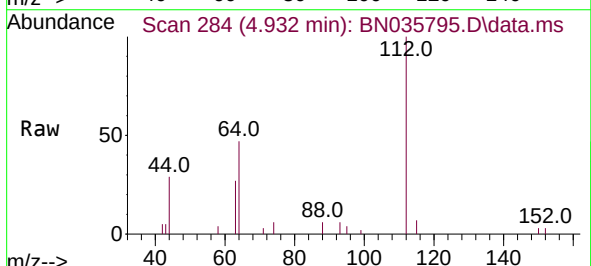


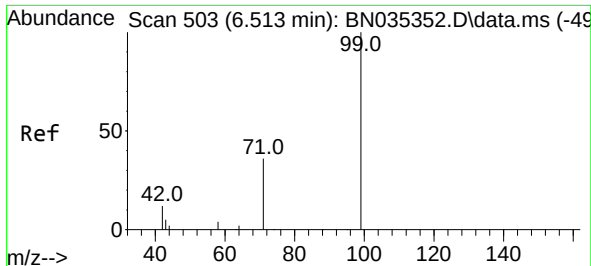
Tgt Ion:152 Resp: 4926  
Ion Ratio Lower Upper  
152 100  
150 152.7 124.0 186.0  
115 58.9 49.6 74.4



#4  
2-Fluorophenol  
Concen: 0.307 ng  
RT: 4.932 min Scan# 284  
Delta R.T. -0.007 min  
Lab File: BN035795.D  
Acq: 23 Dec 2024 22:52

Tgt Ion:112 Resp: 3783  
Ion Ratio Lower Upper  
112 100  
64 51.0 39.8 59.8  
63 28.0 21.0 31.6

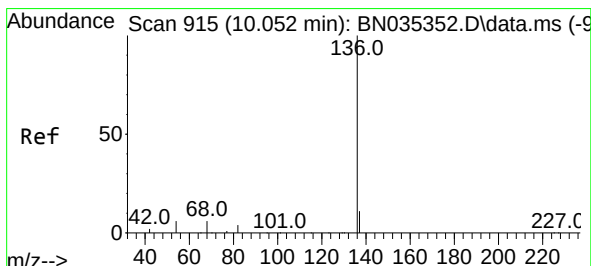
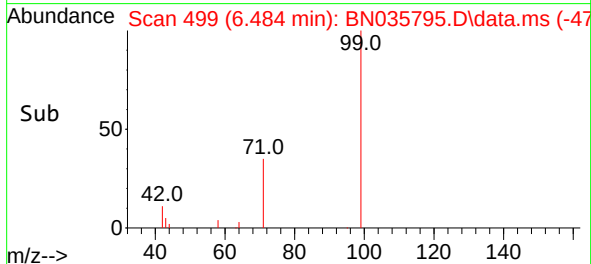
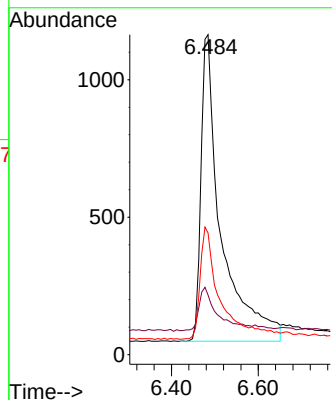
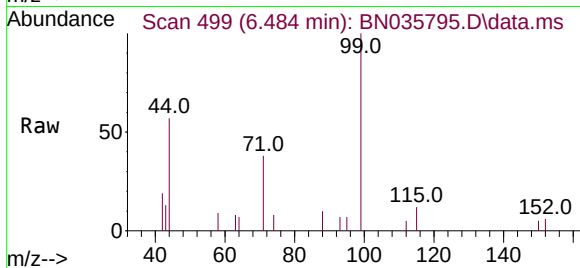




#5  
Phenol-d6  
Concen: 0.242 ng  
RT: 6.484 min Scan# 499  
Delta R.T. -0.007 min  
Lab File: BN035795.D  
Acq: 23 Dec 2024 22:52

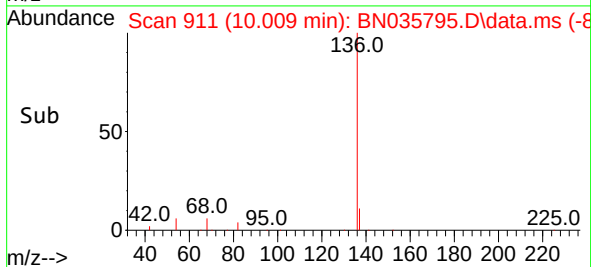
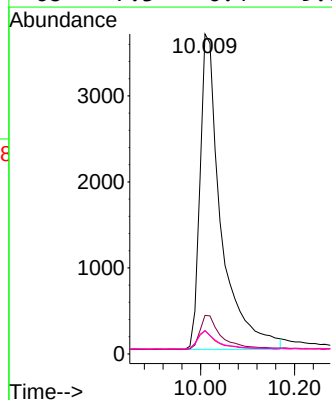
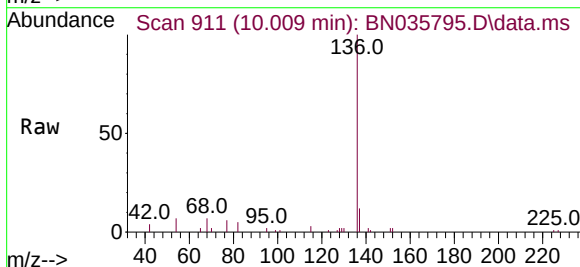
Instrument :  
BNA\_N  
ClientSampleId :  
PB165667BL

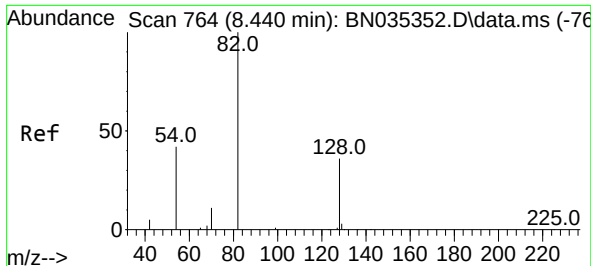
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 99    | Resp: | 3587  |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 13.1  | 11.4  | 17.2  |
| 71       | 37.0  | 29.3  | 43.9  |



#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.009 min Scan# 911  
Delta R.T. -0.011 min  
Lab File: BN035795.D  
Acq: 23 Dec 2024 22:52

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 11442 |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 12.0  | 10.2  | 15.2  |
| 54       | 7.3   | 6.1   | 9.1   |
| 68       | 7.3   | 6.4   | 9.6   |

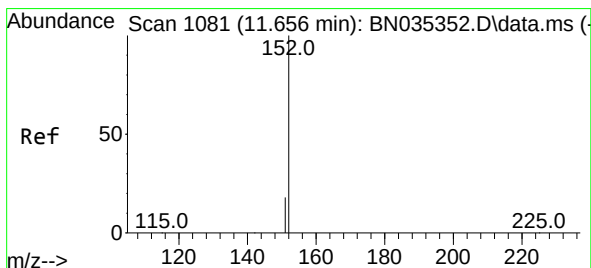
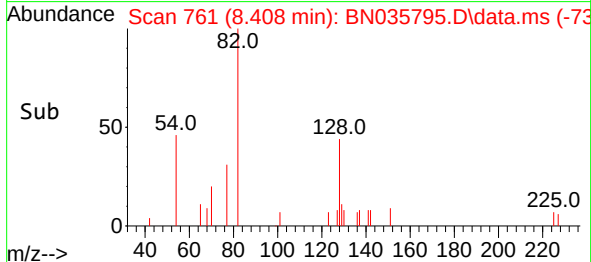
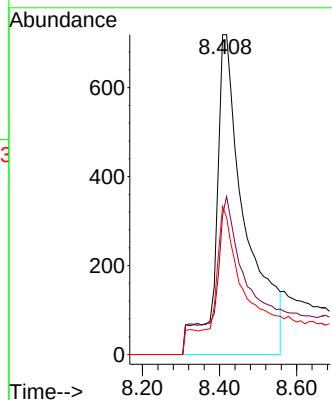
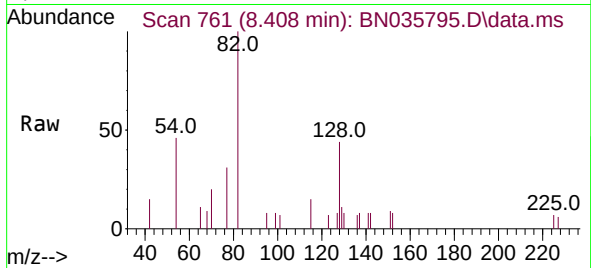




#8  
Nitrobenzene-d5  
Concen: 0.530 ng  
RT: 8.408 min Scan# 764  
Delta R.T. -0.000 min  
Lab File: BN035795.D  
Acq: 23 Dec 2024 22:52

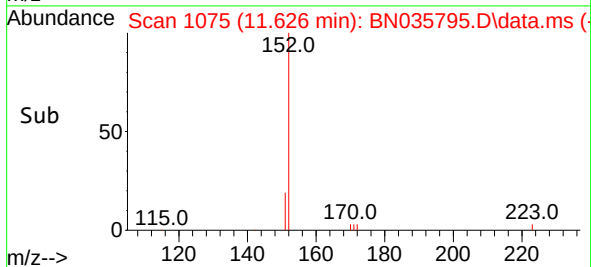
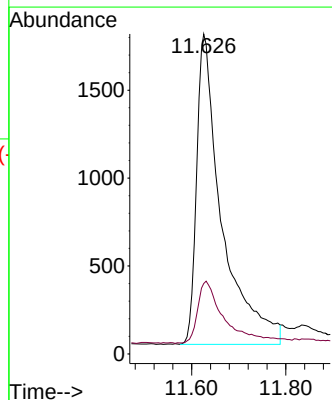
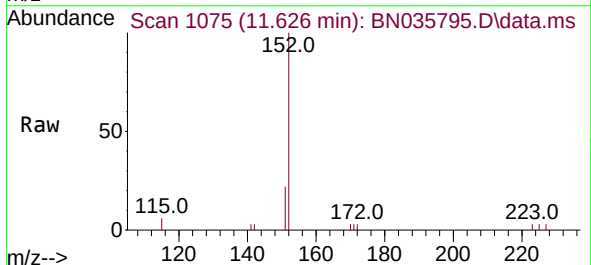
Instrument :  
BNA\_N  
ClientSampleId :  
PB165667BL

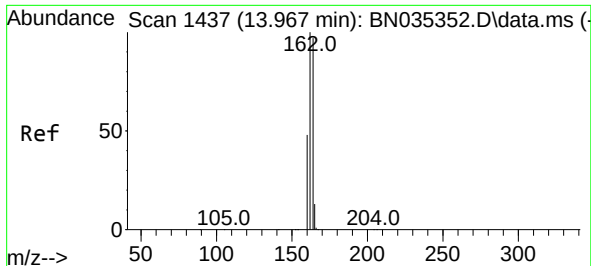
Tgt Ion: 82 Resp: 3704  
Ion Ratio Lower Upper  
82 100  
128 43.7 33.4 50.0  
54 46.3 36.7 55.1



#11  
2-Methylnaphthalene-d10  
Concen: 0.367 ng  
RT: 11.626 min Scan# 1075  
Delta R.T. 0.005 min  
Lab File: BN035795.D  
Acq: 23 Dec 2024 22:52

Tgt Ion: 152 Resp: 6566  
Ion Ratio Lower Upper  
152 100  
151 21.2 16.6 25.0

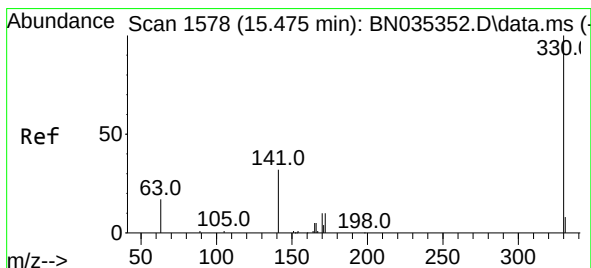
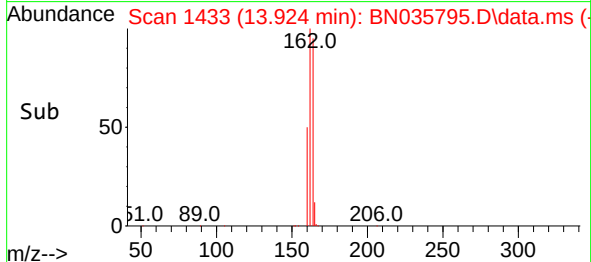
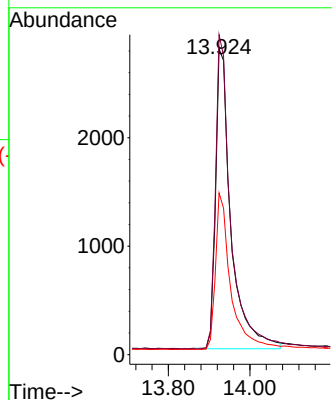
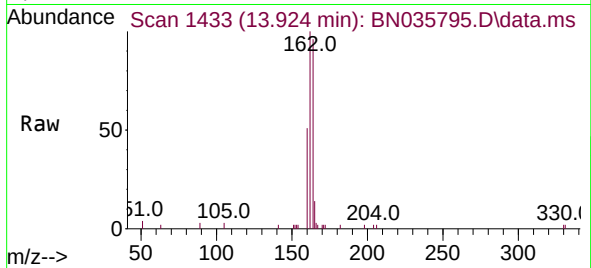




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.924 min Scan# 1433  
Delta R.T. -0.011 min  
Lab File: BN035795.D  
Acq: 23 Dec 2024 22:52

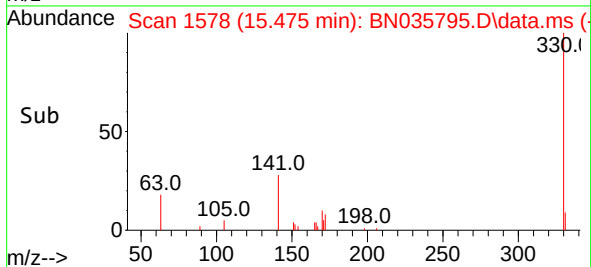
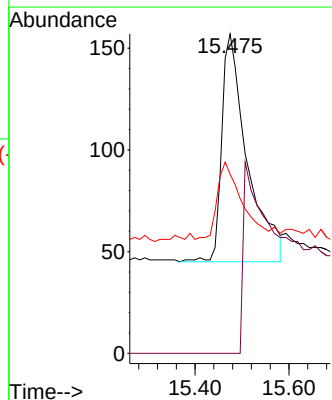
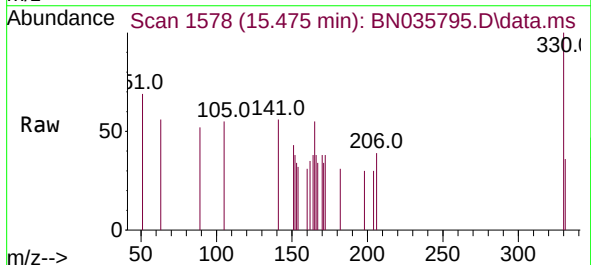
Instrument :  
BNA\_N  
ClientSampleId :  
PB165667BL

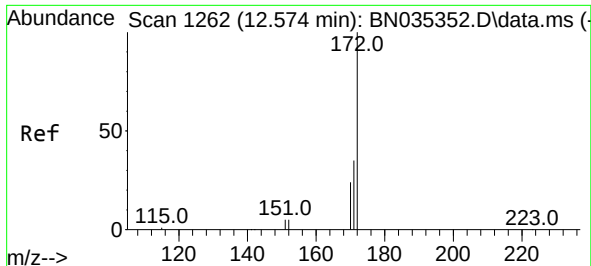
Tgt Ion:164 Resp: 7253  
Ion Ratio Lower Upper  
164 100  
162 104.6 82.2 123.2  
160 52.9 40.1 60.1



#14  
2,4,6-Tribromophenol  
Concen: 0.083 ng  
RT: 15.475 min Scan# 1578  
Delta R.T. 0.021 min  
Lab File: BN035795.D  
Acq: 23 Dec 2024 22:52

Tgt Ion:330 Resp: 426  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 32.6 26.6 40.0

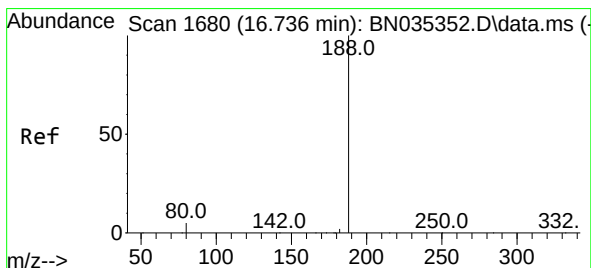
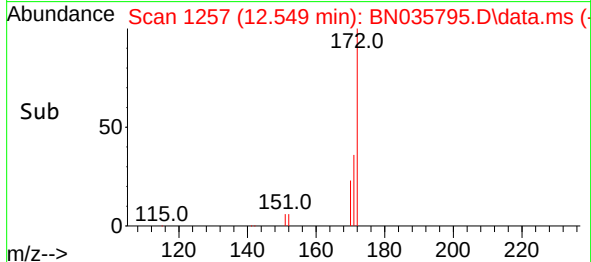
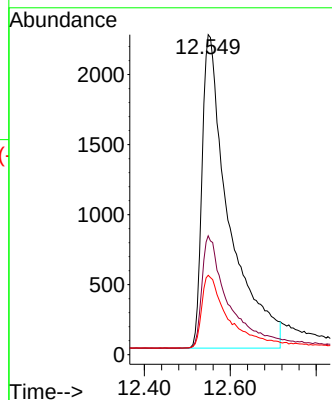
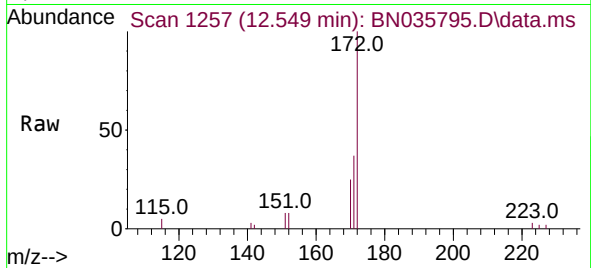




#15  
2-Fluorobiphenyl  
Concen: 0.355 ng  
RT: 12.549 min Scan# 11  
Delta R.T. 0.005 min  
Lab File: BN035795.D  
Acq: 23 Dec 2024 22:52

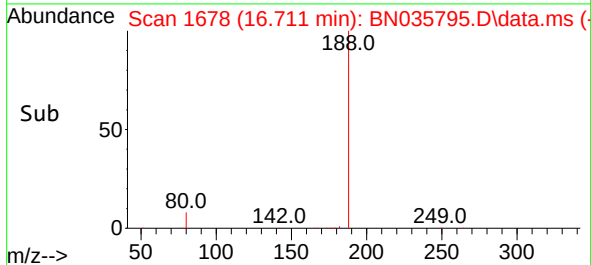
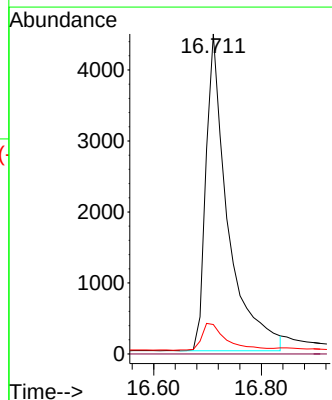
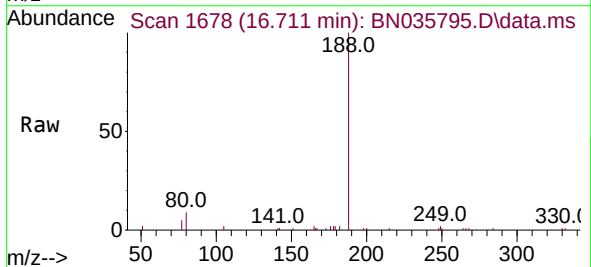
Instrument :  
BNA\_N  
ClientSampleId :  
PB165667BL

Tgt Ion:172 Resp: 9720  
Ion Ratio Lower Upper  
172 100  
171 37.2 29.0 43.4  
170 24.8 19.8 29.8

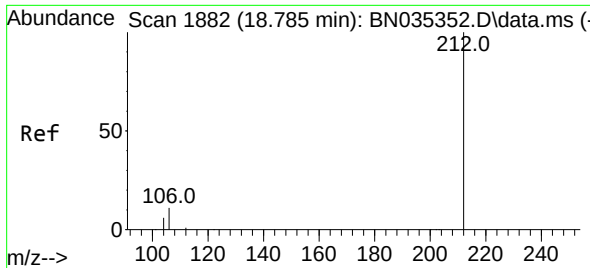


#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 16.711 min Scan# 1678  
Delta R.T. 0.012 min  
Lab File: BN035795.D  
Acq: 23 Dec 2024 22:52

Tgt Ion:188 Resp: 12605  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 9.2 4.6 6.8#

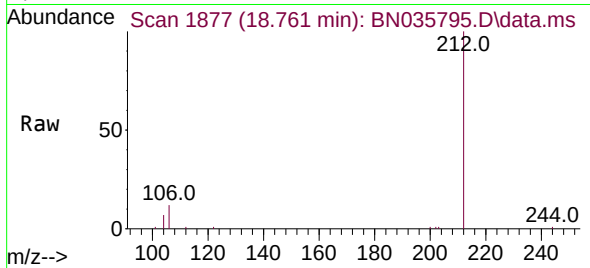




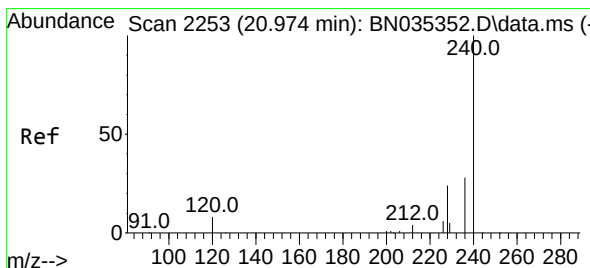
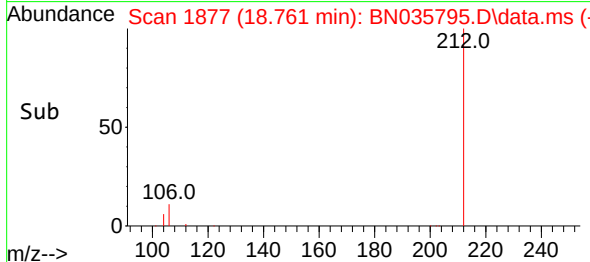
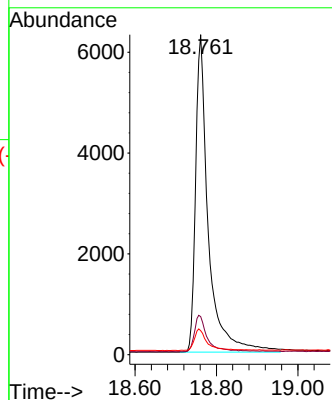


#27  
Fluoranthene-d10  
Concen: 0.382 ng  
RT: 18.761 min Scan# 1877  
Delta R.T. -0.000 min  
Lab File: BN035795.D  
Acq: 23 Dec 2024 22:52

Instrument :  
BNA\_N  
ClientSampleId :  
PB165667BL

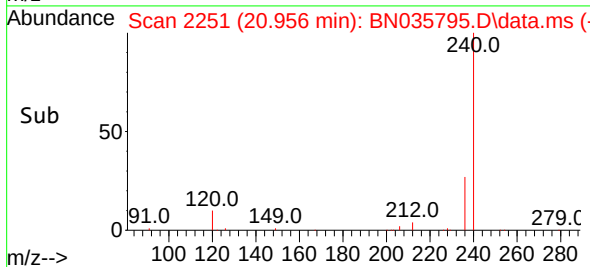
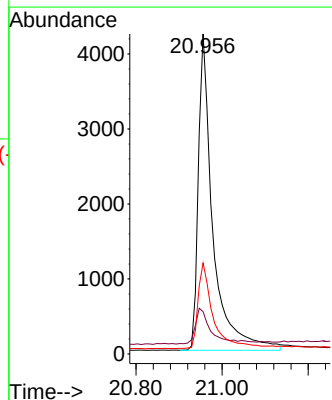
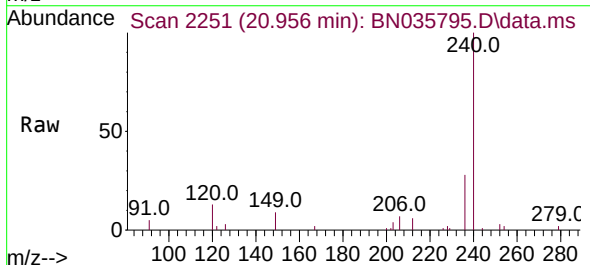


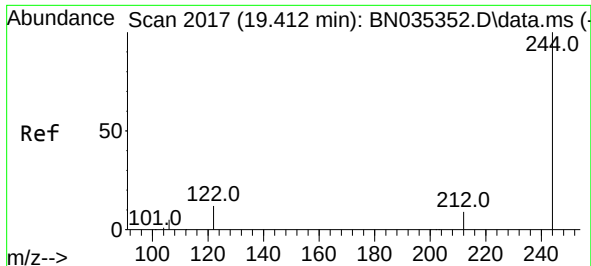
Tgt Ion:212 Resp: 13649  
Ion Ratio Lower Upper  
212 100  
106 11.8 9.2 13.8  
104 6.6 5.3 7.9



#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 20.956 min Scan# 2251  
Delta R.T. -0.000 min  
Lab File: BN035795.D  
Acq: 23 Dec 2024 22:52

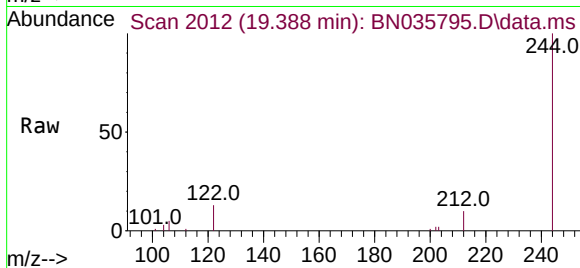
Tgt Ion:240 Resp: 9944  
Ion Ratio Lower Upper  
240 100  
120 13.2 7.9 11.9#  
236 28.4 22.9 34.3



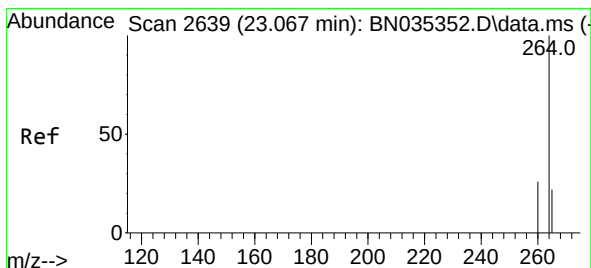
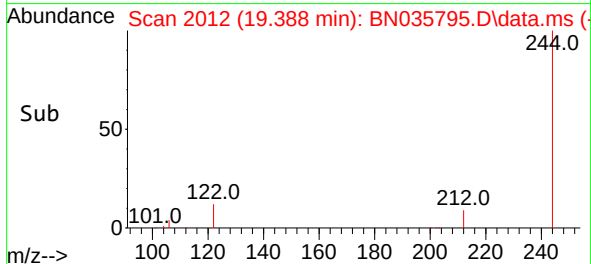
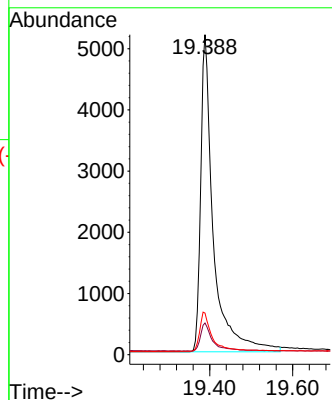


#31  
Terphenyl-d14  
Concen: 0.562 ng  
RT: 19.388 min Scan# 2017  
Delta R.T. -0.000 min  
Lab File: BN035795.D  
Acq: 23 Dec 2024 22:52

Instrument :  
BNA\_N  
ClientSampleId :  
PB165667BL

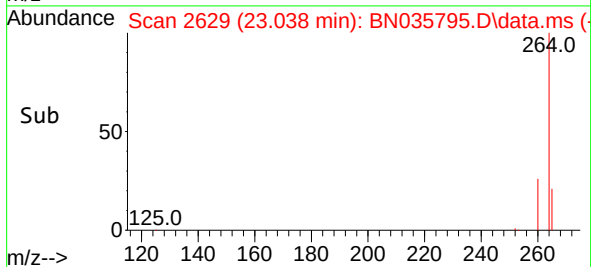
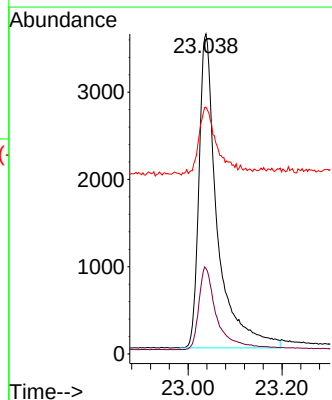
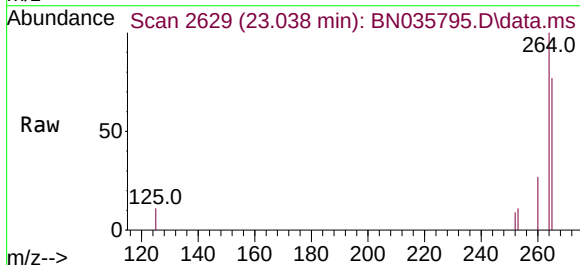


Tgt Ion:244 Resp: 11020  
Ion Ratio Lower Upper  
244 100  
212 9.9 8.1 12.1  
122 13.0 10.3 15.5



#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.038 min Scan# 2629  
Delta R.T. -0.003 min  
Lab File: BN035795.D  
Acq: 23 Dec 2024 22:52

Tgt Ion:264 Resp: 9785  
Ion Ratio Lower Upper  
264 100  
260 26.7 21.4 32.2  
265 77.1 40.2 60.4#



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN122324\  
 Data File : BN035805.D  
 Acq On : 24 Dec 2024 04:47  
 Operator : RC/JU  
 Sample : P5284-01  
 Misc :  
 ALS Vial : 87 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 RW5-SP100-20241212

Quant Time: Dec 24 05:31:51 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Dec 19 23:06:19 2024  
 Response via : Initial Calibration

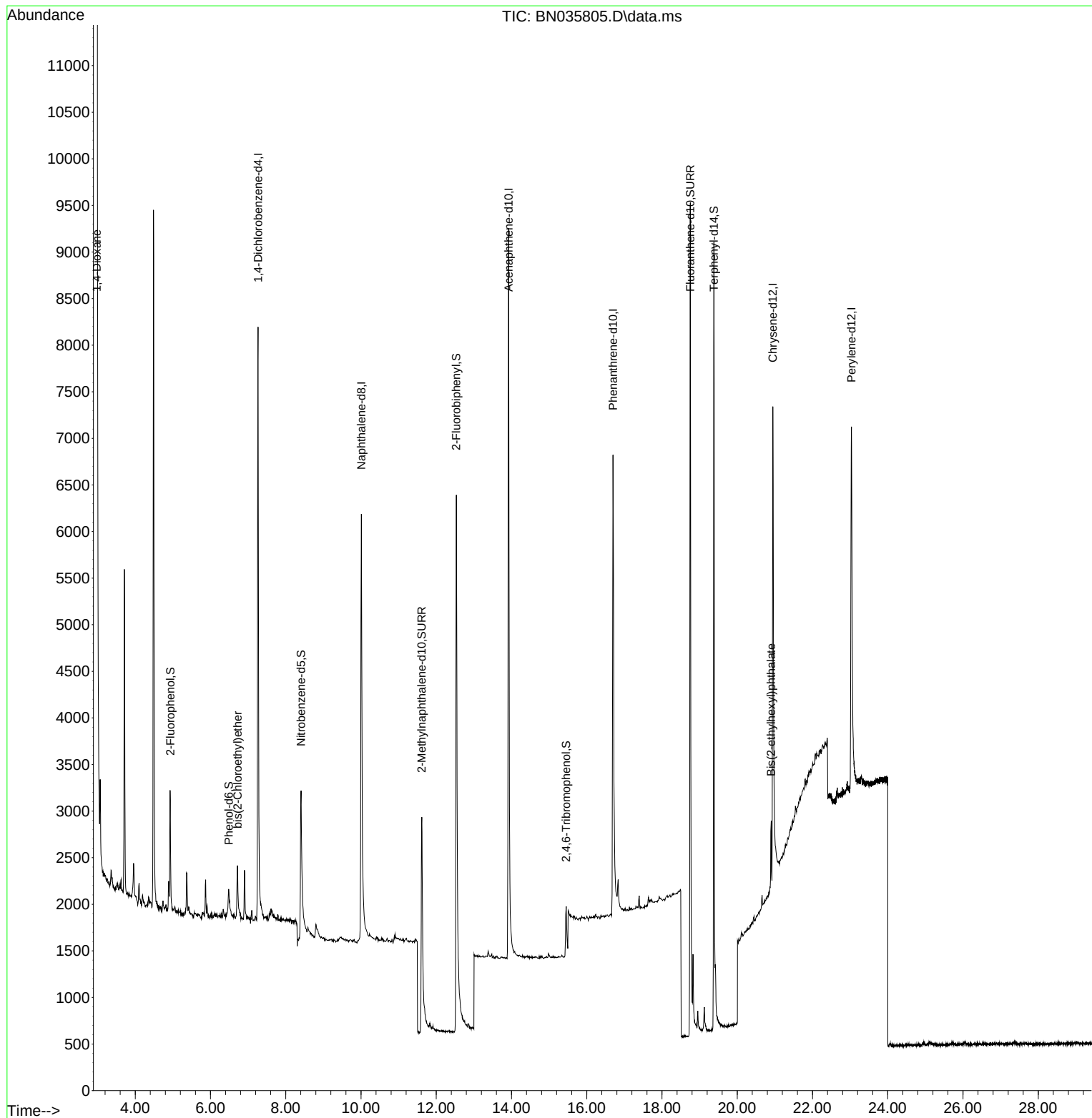
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.265  | 152  | 3703     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.009 | 136  | 8793     | 0.400 | ng    | -0.01    |
| 13) Acenaphthene-d10          | 13.925 | 164  | 5556     | 0.400 | ng    | -0.01    |
| 19) Phenanthrene-d10          | 16.698 | 188  | 10032    | 0.400 | ng    | # 0.00   |
| 29) Chrysene-d12              | 20.947 | 240  | 7300     | 0.400 | ng    | # 0.00   |
| 35) Perylene-d12              | 23.035 | 264  | 6598     | 0.400 | ng    | # 0.00   |
|                               |        |      |          |       |       |          |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 4.932  | 112  | 1185     | 0.128 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.484  | 99   | 673      | 0.060 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.408  | 82   | 2771     | 0.516 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.616 | 152  | 5575     | 0.405 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.453 | 330  | 790      | 0.200 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.534 | 172  | 8878     | 0.423 | ng    | -0.01    |
| 27) Fluoranthene-d10          | 18.752 | 212  | 13011    | 0.458 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.379 | 244  | 9765     | 0.678 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| Target Compounds              |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 2.974  | 88   | 34090    | 9.630 | ng    | 98       |
| 6) bis(2-Chloroethyl)ether    | 6.723  | 93   | 501      | 0.053 | ng    | # 82     |
| 34) Bis(2-ethylhexyl)phtha... | 20.902 | 149  | 858      | 0.085 | ng    | # 95     |
| -----                         |        |      |          |       |       |          |

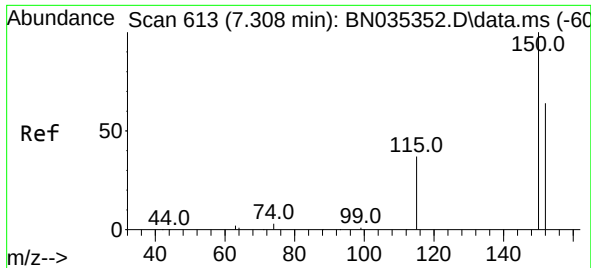
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN122324\  
Data File : BN035805.D  
Acq On : 24 Dec 2024 04:47  
Operator : RC/JU  
Sample : P5284-01  
Misc :  
ALS Vial : 87 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP100-20241212

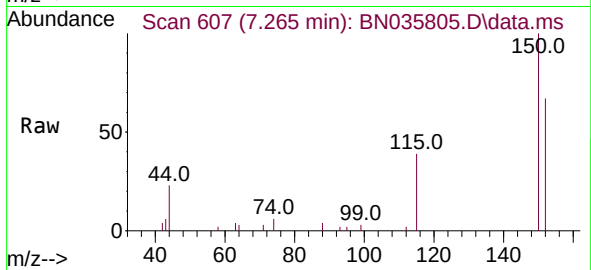
Quant Time: Dec 24 05:31:51 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Dec 19 23:06:19 2024  
Response via : Initial Calibration



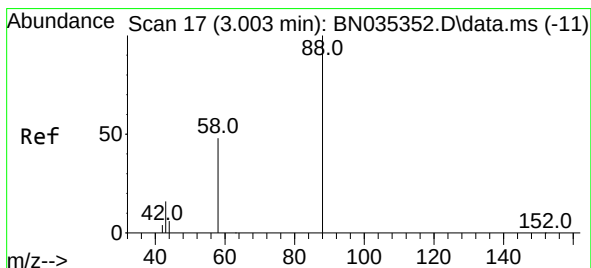
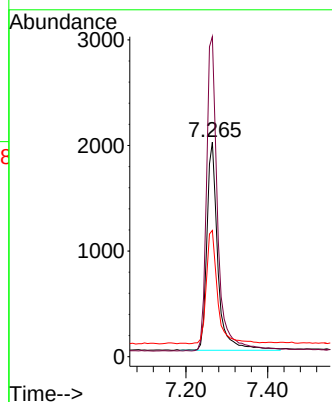
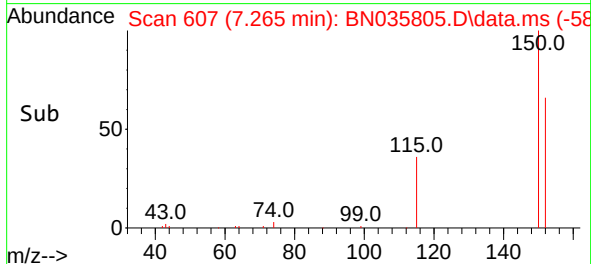


#1  
 1,4-Dichlorobenzene-d4  
 Concen: 0.400 ng  
 RT: 7.265 min Scan# 61  
 Delta R.T. -0.008 min  
 Lab File: BN035805.D  
 Acq: 24 Dec 2024 04:47

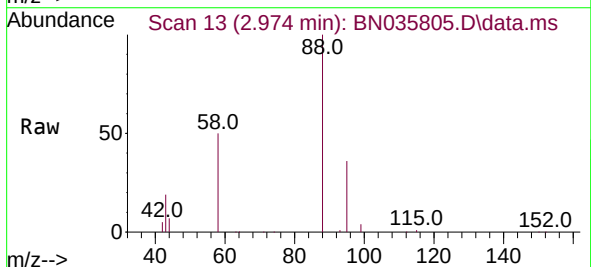
Instrument :  
 BNA\_N  
 ClientSampleId :  
 RW5-SP100-20241212



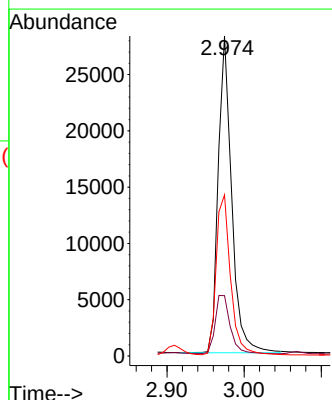
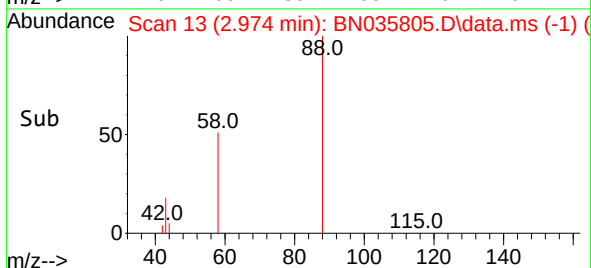
Tgt Ion:152 Resp: 3703  
 Ion Ratio Lower Upper  
 152 100  
 150 149.1 124.0 186.0  
 115 58.8 49.6 74.4

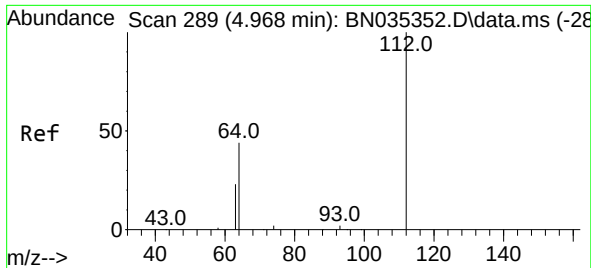


#2  
 1,4-Dioxane  
 Concen: 9.630 ng  
 RT: 2.974 min Scan# 13  
 Delta R.T. -0.007 min  
 Lab File: BN035805.D  
 Acq: 24 Dec 2024 04:47



Tgt Ion: 88 Resp: 34090  
 Ion Ratio Lower Upper  
 88 100  
 43 20.5 17.2 25.8  
 58 53.7 44.5 66.7

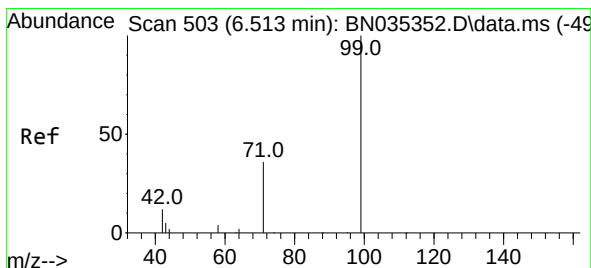
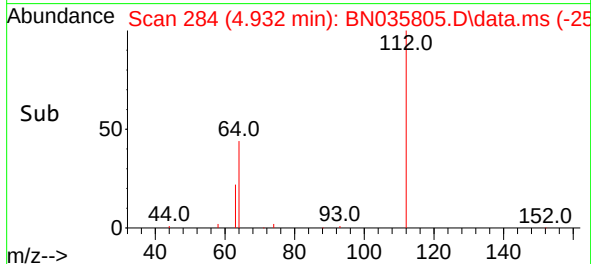
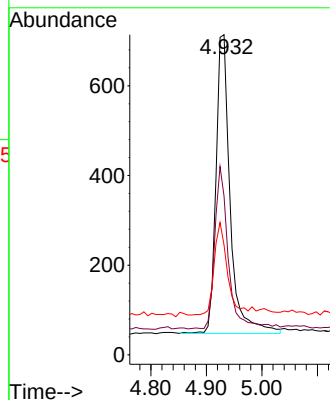
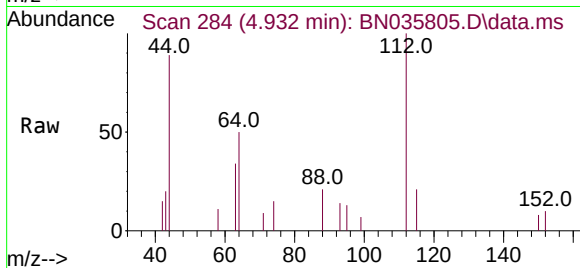




#4  
2-Fluorophenol  
Concen: 0.128 ng  
RT: 4.932 min Scan# 21  
Delta R.T. -0.007 min  
Lab File: BN035805.D  
Acq: 24 Dec 2024 04:47

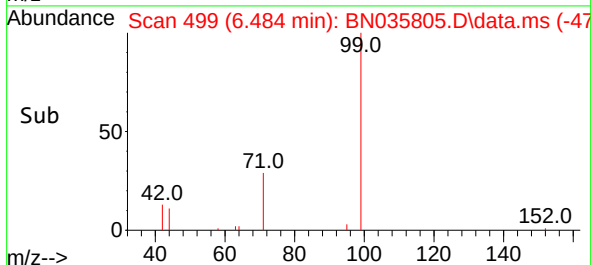
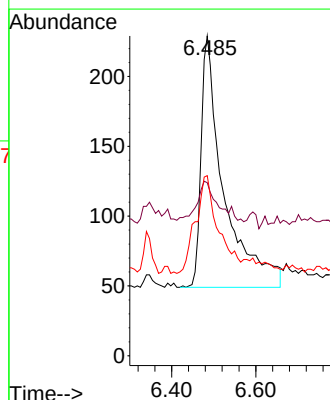
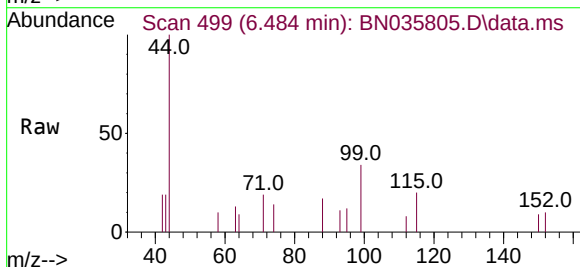
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP100-20241212

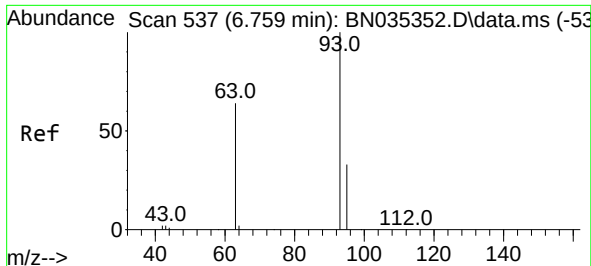
Tgt Ion:112 Resp: 1185  
Ion Ratio Lower Upper  
112 100  
64 52.2 39.8 59.8  
63 28.9 21.0 31.6



#5  
Phenol-d6  
Concen: 0.060 ng  
RT: 6.484 min Scan# 499  
Delta R.T. -0.007 min  
Lab File: BN035805.D  
Acq: 24 Dec 2024 04:47

Tgt Ion: 99 Resp: 673  
Ion Ratio Lower Upper  
99 100  
42 16.0 11.4 17.2  
71 39.4 29.3 43.9

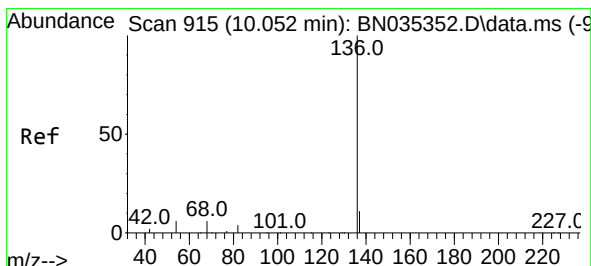
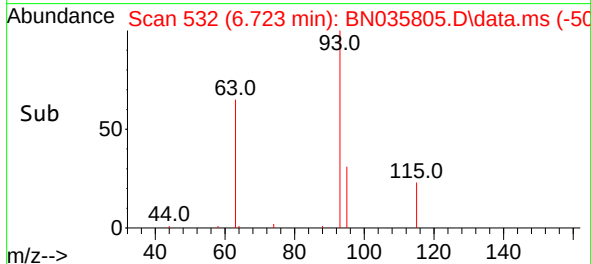
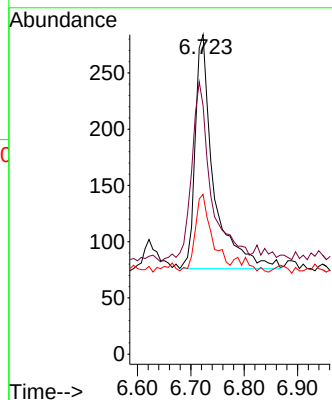
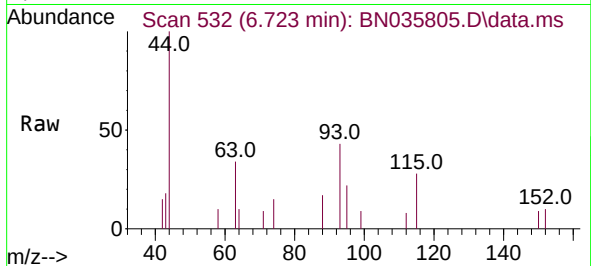




#6  
bis(2-Chloroethyl)ether  
Concen: 0.053 ng  
RT: 6.723 min Scan# 51  
Delta R.T. -0.007 min  
Lab File: BN035805.D  
Acq: 24 Dec 2024 04:47

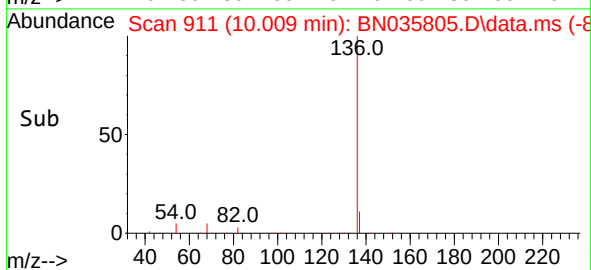
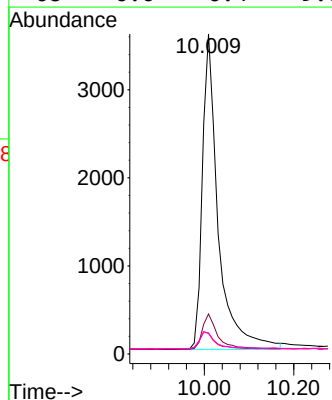
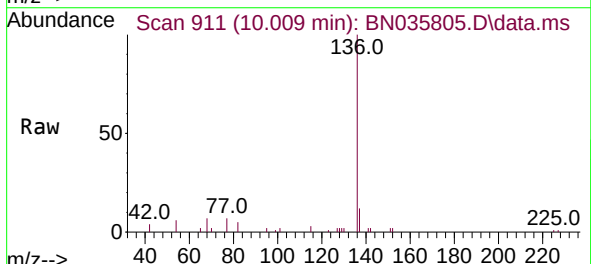
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP100-20241212

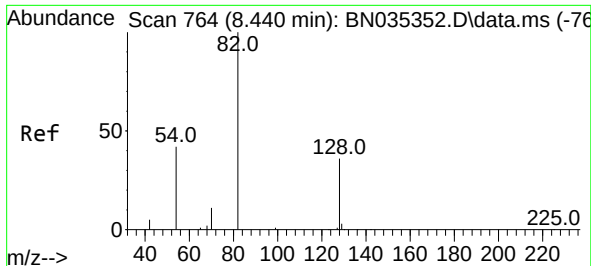
Tgt Ion: 93 Resp: 501  
Ion Ratio Lower Upper  
93 100  
63 83.2 50.4 75.6#  
95 30.9 25.7 38.5



#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.009 min Scan# 911  
Delta R.T. -0.011 min  
Lab File: BN035805.D  
Acq: 24 Dec 2024 04:47

Tgt Ion: 136 Resp: 8793  
Ion Ratio Lower Upper  
136 100  
137 12.5 10.2 15.2  
54 6.4 6.1 9.1  
68 6.6 6.4 9.6

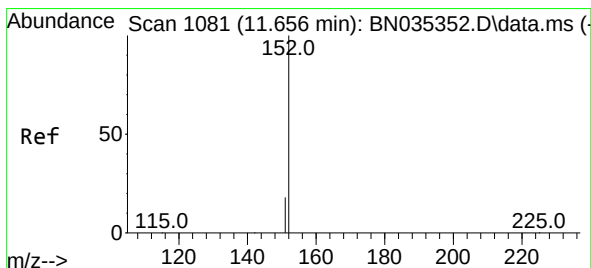
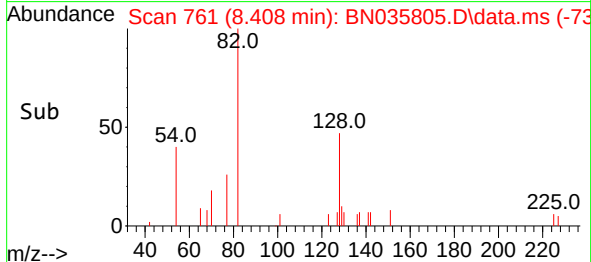
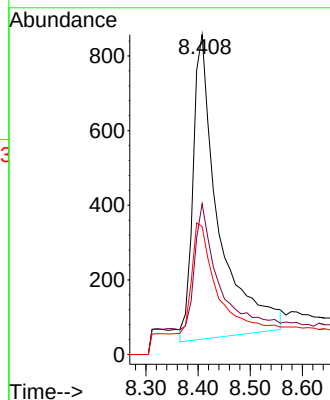
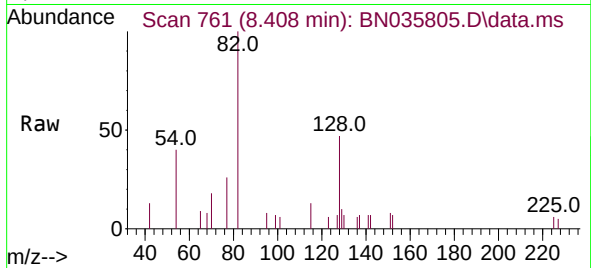




#8  
Nitrobenzene-d5  
Concen: 0.516 ng  
RT: 8.408 min Scan# 761  
Delta R.T. -0.000 min  
Lab File: BN035805.D  
Acq: 24 Dec 2024 04:47

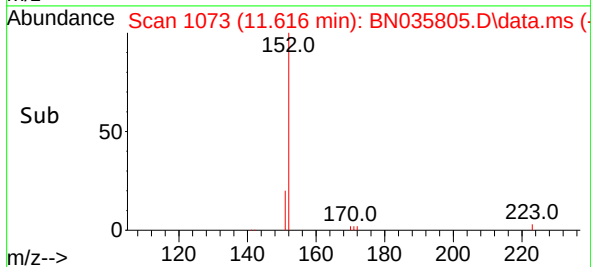
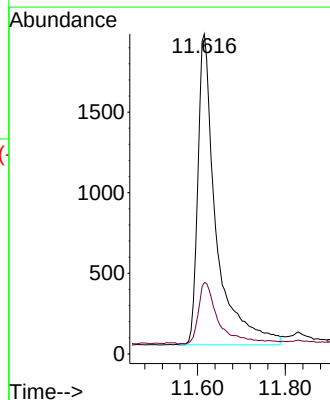
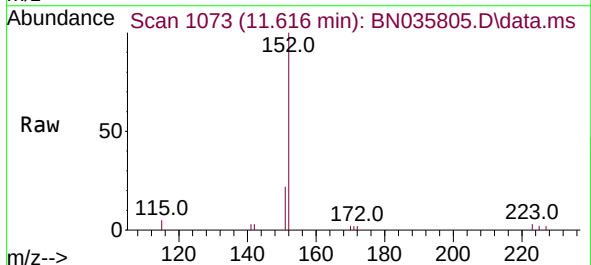
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP100-20241212

Tgt Ion: 82 Resp: 2771  
Ion Ratio Lower Upper  
82 100  
128 47.1 33.4 50.0  
54 40.0 36.7 55.1

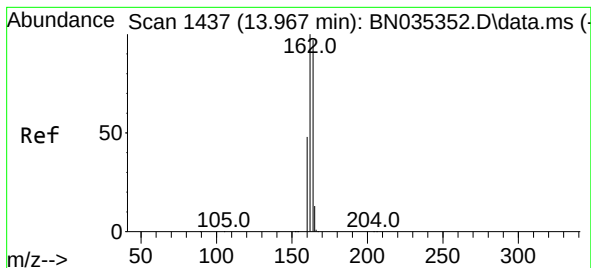


#11  
2-Methylnaphthalene-d10  
Concen: 0.405 ng  
RT: 11.616 min Scan# 1073  
Delta R.T. -0.005 min  
Lab File: BN035805.D  
Acq: 24 Dec 2024 04:47

Tgt Ion: 152 Resp: 5575  
Ion Ratio Lower Upper  
152 100  
151 21.0 16.6 25.0







#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 13.925 min Scan# 14

Delta R.T. -0.011 min

Lab File: BN035805.D

Acq: 24 Dec 2024 04:47

Instrument :

BNA\_N

ClientSampleId :

RW5-SP100-20241212

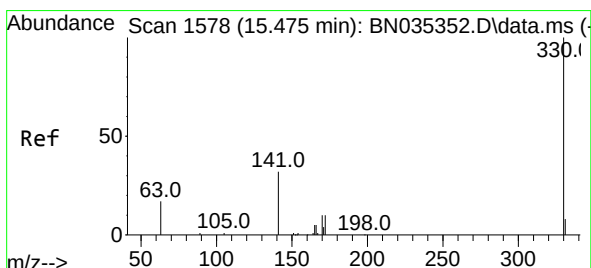
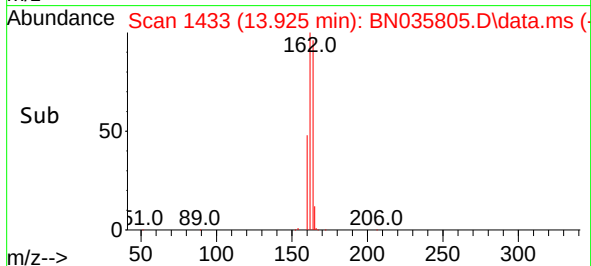
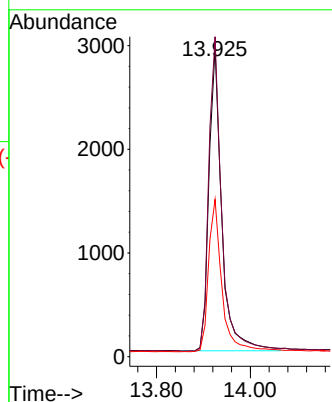
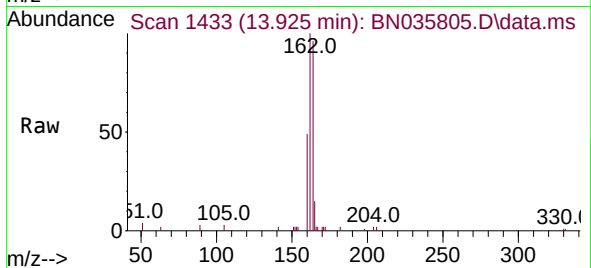
Tgt Ion:164 Resp: 5556

Ion Ratio Lower Upper

164 100

162 103.8 82.2 123.2

160 51.0 40.1 60.1



#14

2,4,6-Tribromophenol

Concen: 0.200 ng

RT: 15.453 min Scan# 1576

Delta R.T. -0.000 min

Lab File: BN035805.D

Acq: 24 Dec 2024 04:47

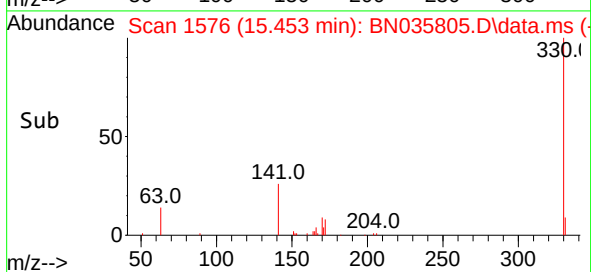
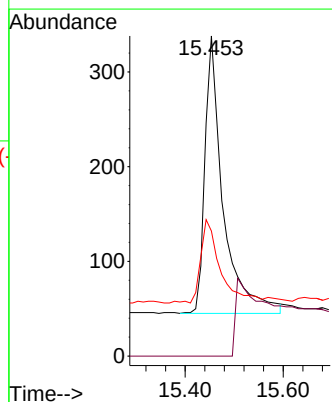
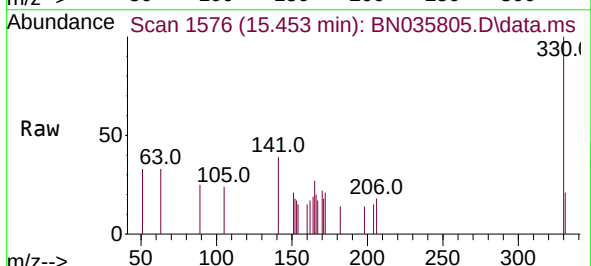
Tgt Ion:330 Resp: 790

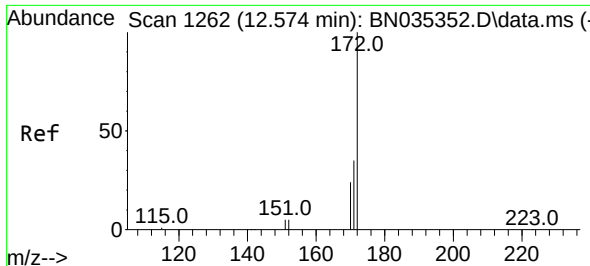
Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

141 32.0 26.6 40.0

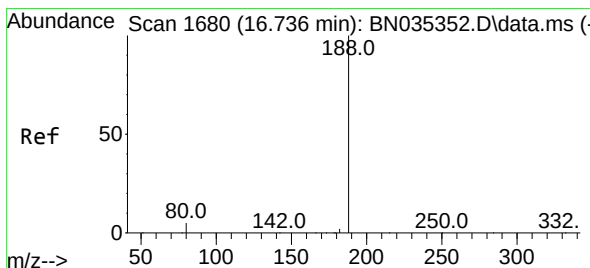
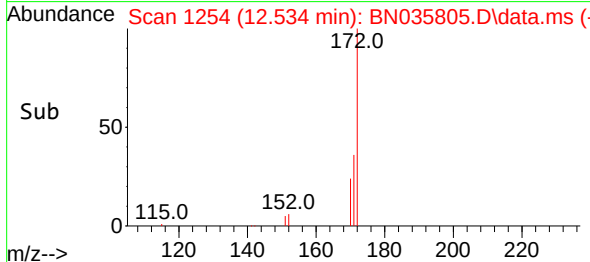
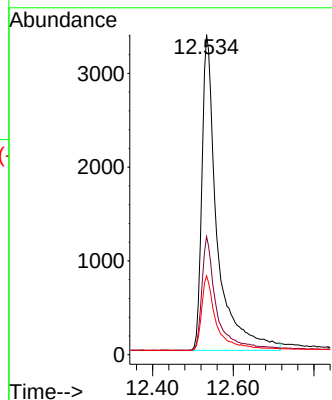
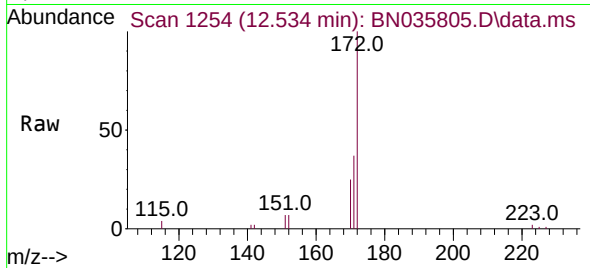




#15  
2-Fluorobiphenyl  
Concen: 0.423 ng  
RT: 12.534 min Scan# 11  
Delta R.T. -0.010 min  
Lab File: BN035805.D  
Acq: 24 Dec 2024 04:47

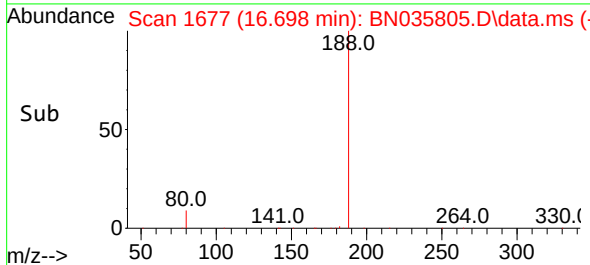
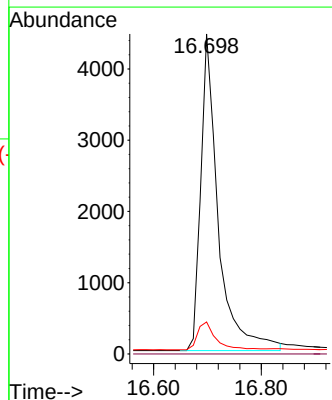
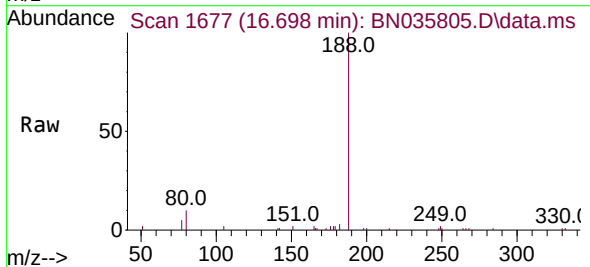
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP100-20241212

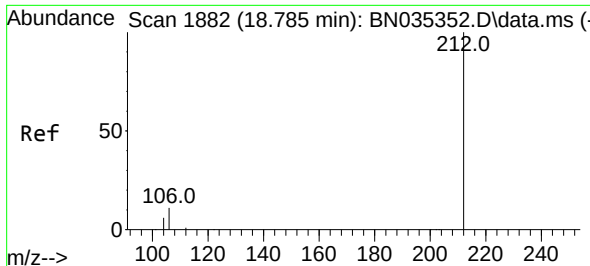
Tgt Ion:172 Resp: 8878  
Ion Ratio Lower Upper  
172 100  
171 36.9 29.0 43.4  
170 24.6 19.8 29.8



#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 16.698 min Scan# 1677  
Delta R.T. 0.000 min  
Lab File: BN035805.D  
Acq: 24 Dec 2024 04:47

Tgt Ion:188 Resp: 10032  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 10.0 4.6 6.8#

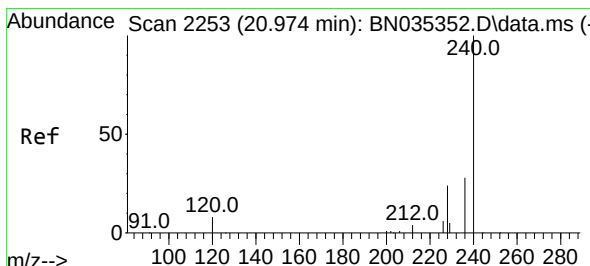
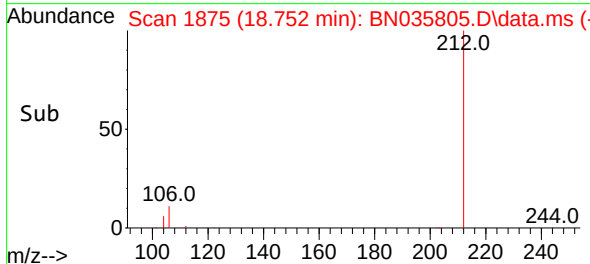
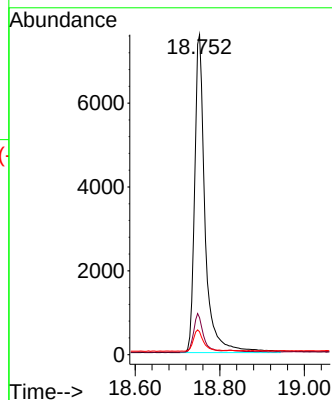
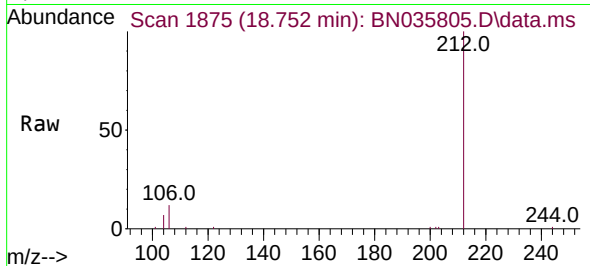




#27  
Fluoranthene-d10  
Concen: 0.458 ng  
RT: 18.752 min Scan# 11  
Delta R.T. -0.009 min  
Lab File: BN035805.D  
Acq: 24 Dec 2024 04:47

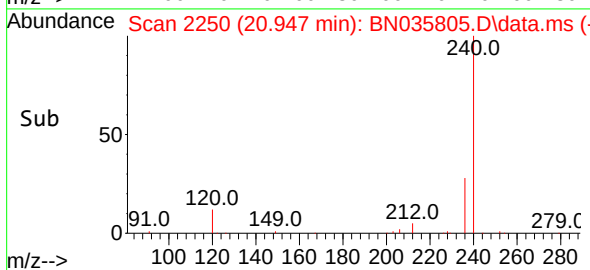
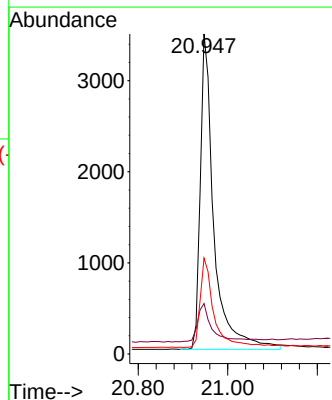
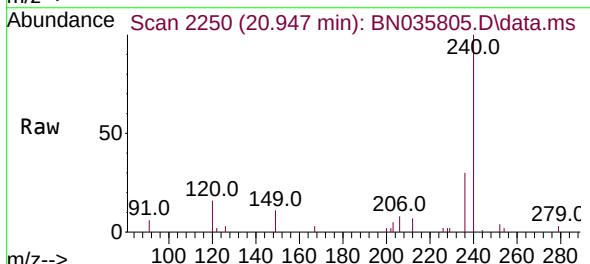
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP100-20241212

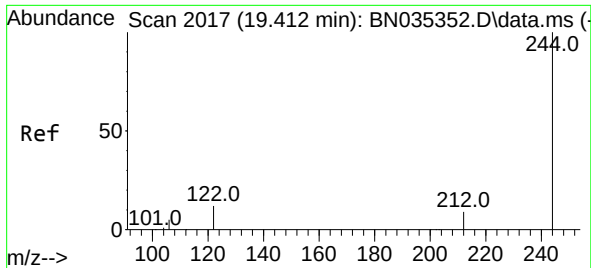
Tgt Ion:212 Resp: 13011  
Ion Ratio Lower Upper  
212 100  
106 11.2 9.2 13.8  
104 6.5 5.3 7.9



#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 20.947 min Scan# 2250  
Delta R.T. -0.009 min  
Lab File: BN035805.D  
Acq: 24 Dec 2024 04:47

Tgt Ion:240 Resp: 7300  
Ion Ratio Lower Upper  
240 100  
120 15.7 7.9 11.9#  
236 30.0 22.9 34.3

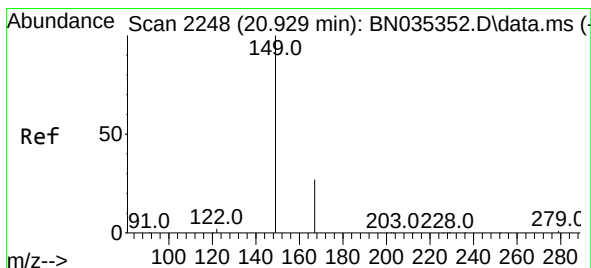
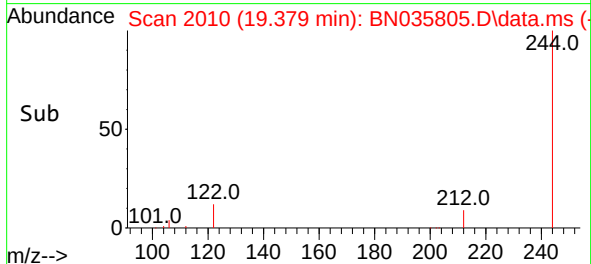
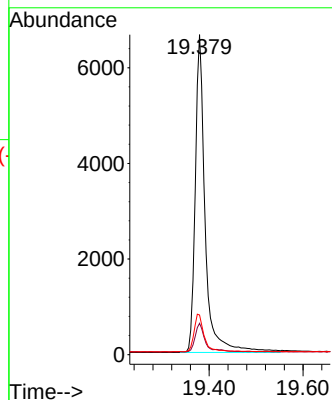
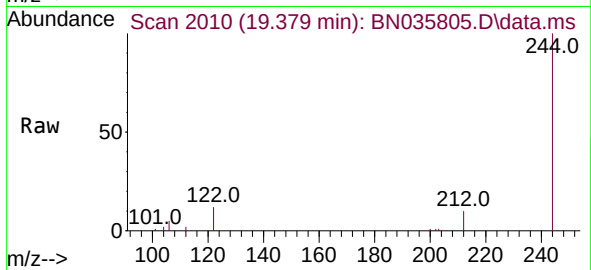




#31  
Terphenyl-d14  
Concen: 0.678 ng  
RT: 19.379 min Scan# 2017  
Delta R.T. -0.009 min  
Lab File: BN035805.D  
Acq: 24 Dec 2024 04:47

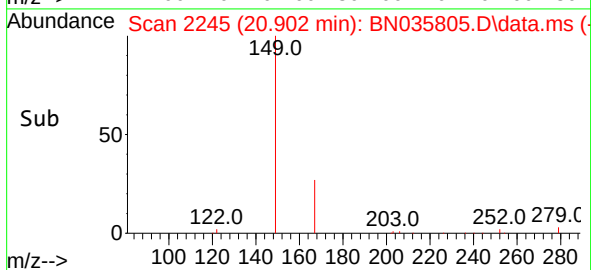
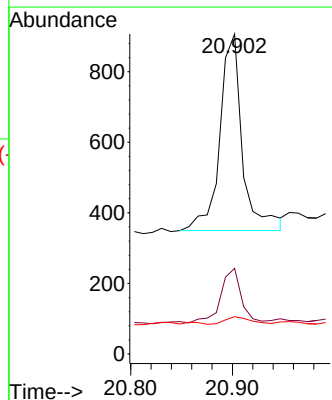
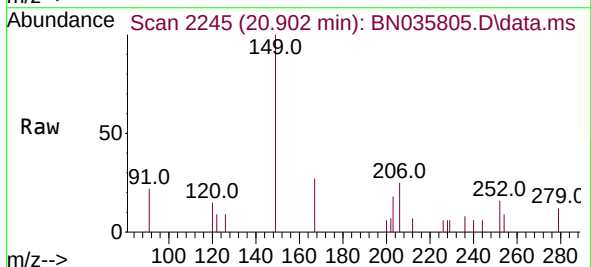
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP100-20241212

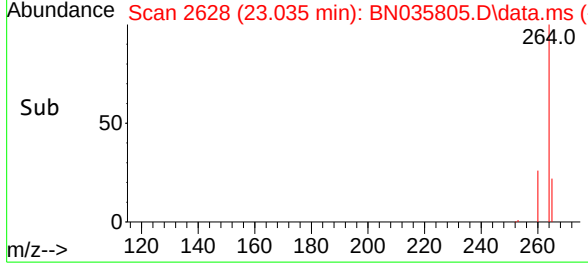
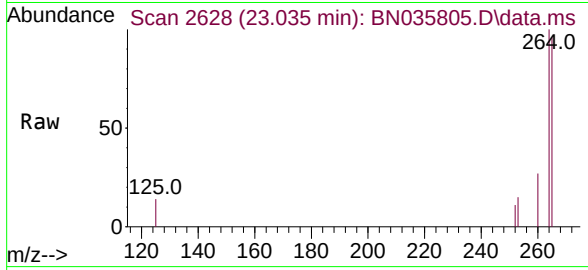
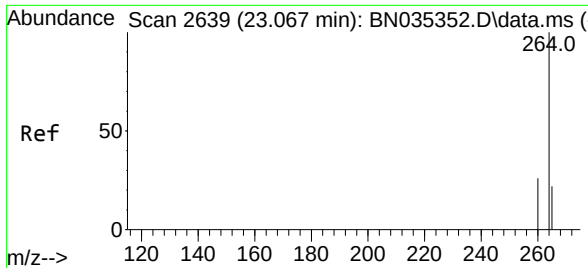
Tgt Ion:244 Resp: 9765  
Ion Ratio Lower Upper  
244 100  
212 9.8 8.1 12.1  
122 12.4 10.3 15.5



#34  
Bis(2-ethylhexyl)phthalate  
Concen: 0.085 ng  
RT: 20.902 min Scan# 2245  
Delta R.T. -0.009 min  
Lab File: BN035805.D  
Acq: 24 Dec 2024 04:47

Tgt Ion:149 Resp: 858  
Ion Ratio Lower Upper  
149 100  
167 25.2 22.2 33.4  
279 4.4 2.7 4.1#

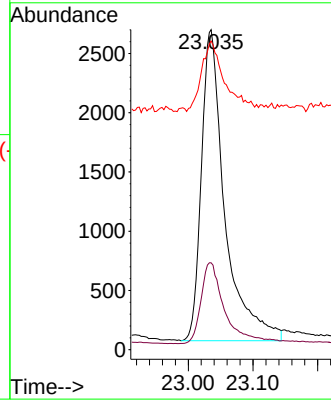




#35  
 Perylene-d12  
 Concen: 0.400 ng  
 RT: 23.035 min Scan# 20  
 Delta R.T. -0.006 min  
 Lab File: BN035805.D  
 Acq: 24 Dec 2024 04:47

Instrument :  
 BNA\_N  
 ClientSampleId :  
 RW5-SP100-20241212

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:264 | Resp: | 6598       |
| Ion Ratio   | Lower | Upper      |
| 264         | 100   |            |
| 260         | 27.2  | 21.4 32.2  |
| 265         | 96.4  | 40.2 60.4# |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN122324\  
 Data File : BN035808.D  
 Acq On : 24 Dec 2024 06:34  
 Operator : RC/JU  
 Sample : PB165667BS  
 Misc :  
 ALS Vial : 92 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 PB165667BS

Quant Time: Dec 24 07:07:05 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Dec 19 23:06:19 2024  
 Response via : Initial Calibration

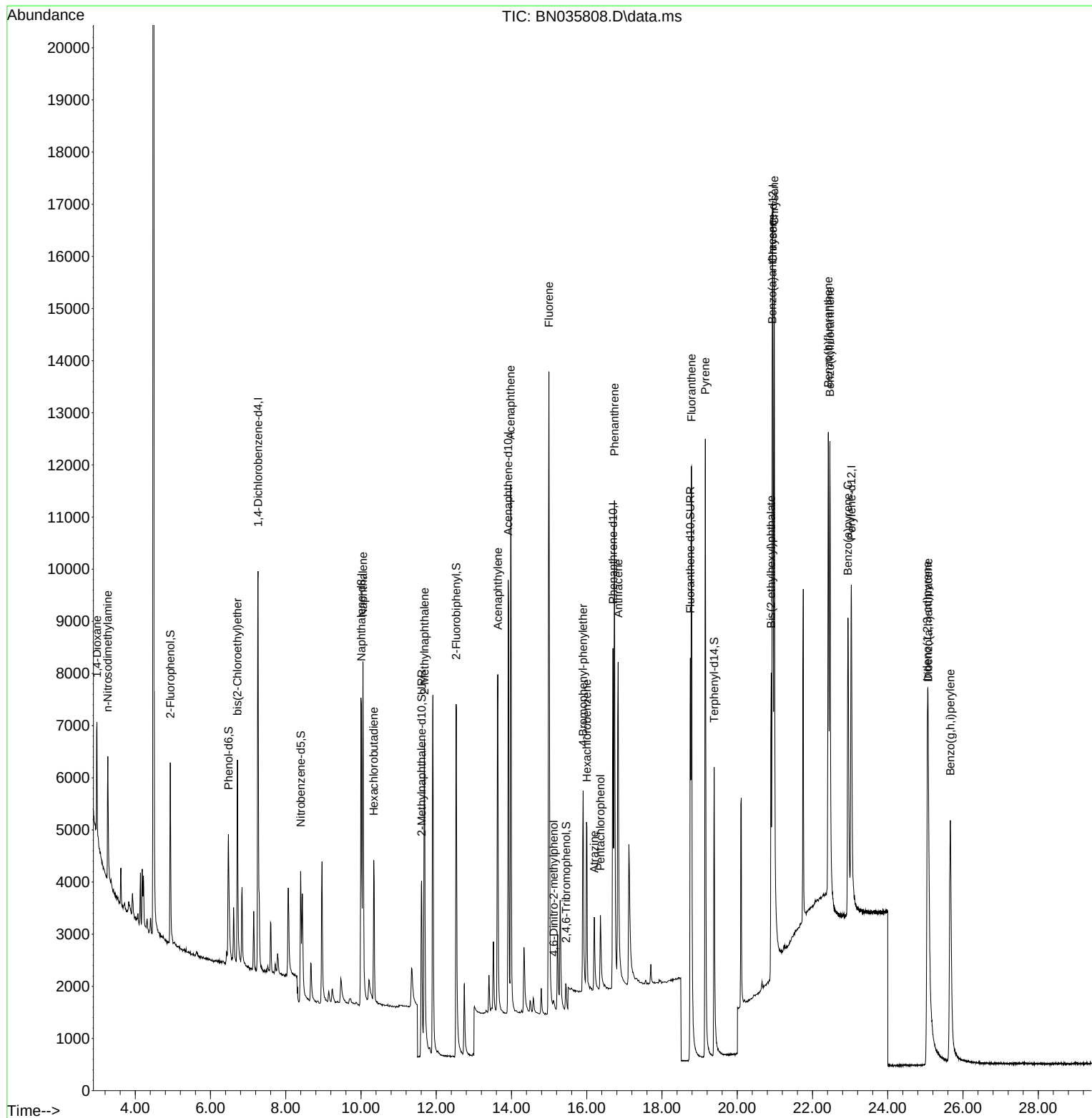
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.264  | 152  | 4067     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.009 | 136  | 9754     | 0.400 | ng    | #-0.01   |
| 13) Acenaphthene-d10          | 13.914 | 164  | 5527     | 0.400 | ng    | -0.02    |
| 19) Phenanthrene-d10          | 16.698 | 188  | 10920    | 0.400 | ng    | # 0.00   |
| 29) Chrysene-d12              | 20.947 | 240  | 9467     | 0.400 | ng    | # 0.00   |
| 35) Perylene-d12              | 23.032 | 264  | 9435     | 0.400 | ng    | # 0.00   |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 4.932  | 112  | 3134     | 0.308 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.477  | 99   | 3400     | 0.278 | ng    | -0.01    |
| 8) Nitrobenzene-d5            | 8.397  | 82   | 3006     | 0.505 | ng    | -0.01    |
| 11) 2-Methylnaphthalene-d10   | 11.611 | 152  | 7007     | 0.459 | ng    | -0.01    |
| 14) 2,4,6-Tribromophenol      | 15.453 | 330  | 647      | 0.165 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.528 | 172  | 8330     | 0.399 | ng    | -0.02    |
| 27) Fluoranthene-d10          | 18.752 | 212  | 11348    | 0.367 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.384 | 244  | 8056     | 0.431 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
| 2) 1,4-Dioxane                | 2.982  | 88   | 1441     | 0.371 | ng    | # 72     |
| 3) n-Nitrosodimethylamine     | 3.271  | 42   | 1276     | 0.394 | ng    | # 88     |
| 6) bis(2-Chloroethyl)ether    | 6.715  | 93   | 3429     | 0.333 | ng    | 99       |
| 9) Naphthalene                | 10.052 | 128  | 9192     | 0.357 | ng    | 100      |
| 10) Hexachlorobutadiene       | 10.340 | 225  | 2323     | 0.391 | ng    | # 99     |
| 12) 2-Methylnaphthalene       | 11.687 | 142  | 5969     | 0.324 | ng    | 98       |
| 16) Acenaphthylene            | 13.636 | 152  | 8595     | 0.370 | ng    | 99       |
| 17) Acenaphthene              | 13.978 | 154  | 5618     | 0.365 | ng    | 99       |
| 18) Fluorene                  | 14.994 | 166  | 7068     | 0.320 | ng    | 99       |
| 20) 4,6-Dinitro-2-methylph... | 15.122 | 198  | 260      | 0.242 | ng    | # 30     |
| 21) 4-Bromophenyl-phenylether | 15.904 | 248  | 2229     | 0.349 | ng    | # 91     |
| 22) Hexachlorobenzene         | 16.003 | 284  | 3165     | 0.422 | ng    | 98       |
| 23) Atrazine                  | 16.202 | 200  | 1619     | 0.356 | ng    | 96       |
| 24) Pentachlorophenol         | 16.363 | 266  | 1112     | 0.341 | ng    | # 84     |
| 25) Phenanthrene              | 16.736 | 178  | 10790    | 0.360 | ng    | 99       |
| 26) Anthracene                | 16.835 | 178  | 9628     | 0.355 | ng    | 99       |
| 28) Fluoranthene              | 18.785 | 202  | 12957    | 0.320 | ng    | 100      |
| 30) Pyrene                    | 19.152 | 202  | 13632    | 0.390 | ng    | 99       |
| 32) Benzo(a)anthracene        | 20.929 | 228  | 10627    | 0.321 | ng    | 99       |
| 33) Chrysene                  | 20.983 | 228  | 14185    | 0.415 | ng    | 100      |
| 34) Bis(2-ethylhexyl)phtha... | 20.902 | 149  | 4640     | 0.355 | ng    | 100      |
| 36) Indeno(1,2,3-cd)pyrene    | 25.053 | 276  | 13497    | 0.366 | ng    | 98       |
| 37) Benzo(b)fluoranthene      | 22.421 | 252  | 22672    | 0.657 | ng    | 96       |
| 38) Benzo(k)fluoranthene      | 22.462 | 252  | 14330    | 0.422 | ng    | 97       |
| 39) Benzo(a)pyrene            | 22.942 | 252  | 11221    | 0.395 | ng    | # 92     |
| 40) Dibenzo(a,h)anthracene    | 25.076 | 278  | 9782     | 0.336 | ng    | 93       |
| 41) Benzo(g,h,i)perylene      | 25.664 | 276  | 11572    | 0.380 | ng    | 99       |

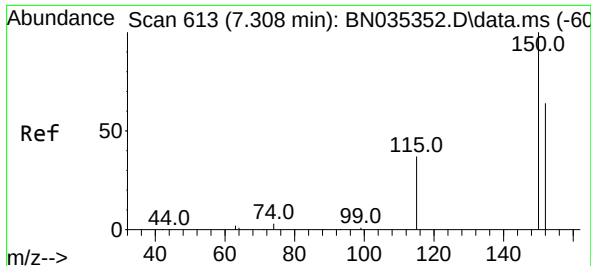
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN122324\  
Data File : BN035808.D  
Acq On : 24 Dec 2024 06:34  
Operator : RC/JU  
Sample : PB165667BS  
Misc :  
ALS Vial : 92 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
PB165667BS

Quant Time: Dec 24 07:07:05 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Dec 19 23:06:19 2024  
Response via : Initial Calibration

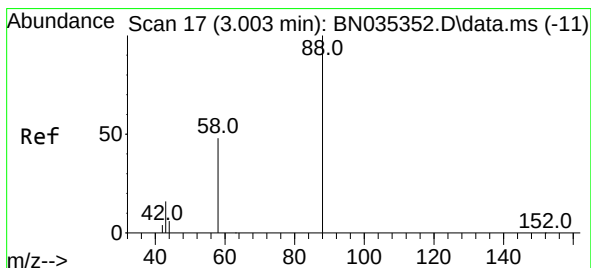
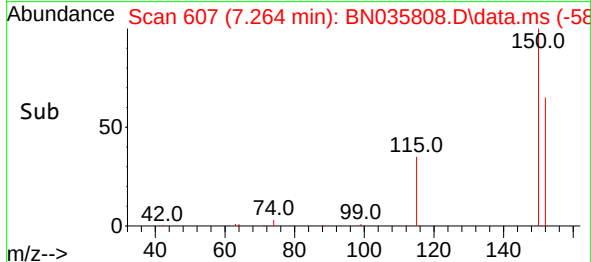
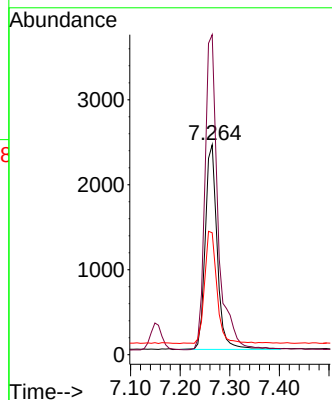
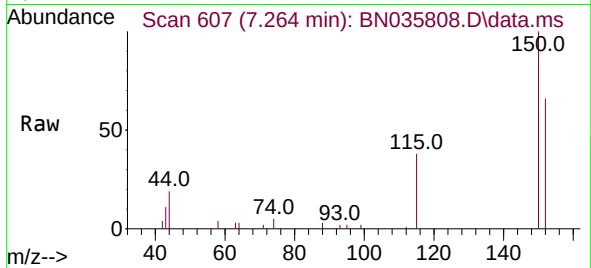




#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.264 min Scan# 61  
Delta R.T. -0.008 min  
Lab File: BN035808.D  
Acq: 24 Dec 2024 06:34

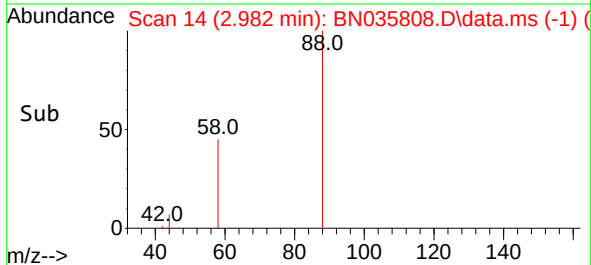
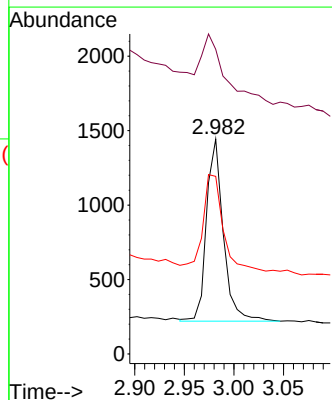
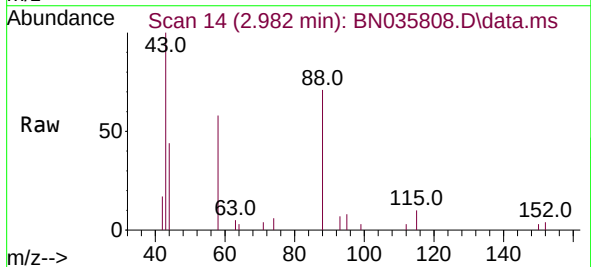
Instrument :  
BNA\_N  
ClientSampleId :  
PB165667BS

Tgt Ion:152 Resp: 4067  
Ion Ratio Lower Upper  
152 100  
150 152.4 124.0 186.0  
115 58.0 49.6 74.4

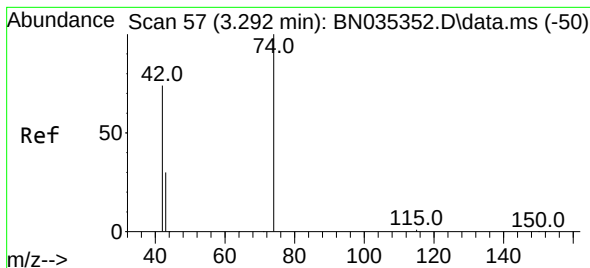


#2  
1,4-Dioxane  
Concen: 0.371 ng  
RT: 2.982 min Scan# 14  
Delta R.T. -0.000 min  
Lab File: BN035808.D  
Acq: 24 Dec 2024 06:34

Tgt Ion: 88 Resp: 1441  
Ion Ratio Lower Upper  
88 100  
43 55.2 17.2 25.8#  
58 64.2 44.5 66.7







#3

n-Nitrosodimethylamine

Concen: 0.394 ng

RT: 3.271 min Scan# 54

Delta R.T. -0.007 min

Lab File: BN035808.D

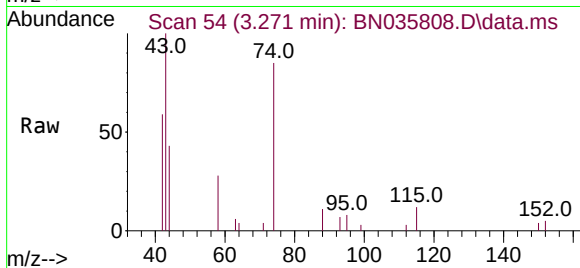
Acq: 24 Dec 2024 06:34

Instrument :

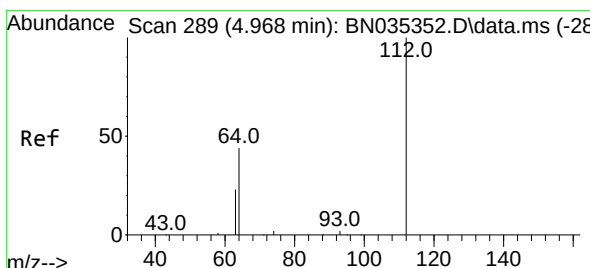
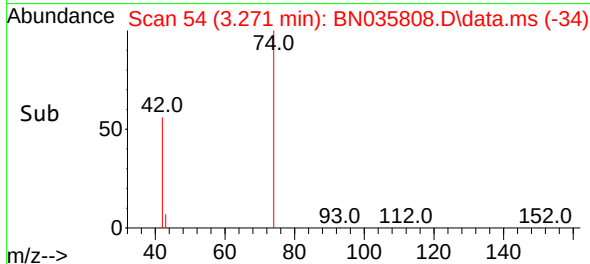
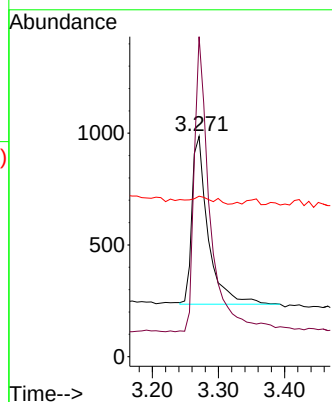
BNA\_N

ClientSampleId :

PB165667BS



| Tgt Ion: | 42    | Resp: | 1276  |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 74       | 171.2 | 124.9 | 187.3 |
| 44       | 6.1   | 2.2   | 3.4   |



#4

2-Fluorophenol

Concen: 0.308 ng

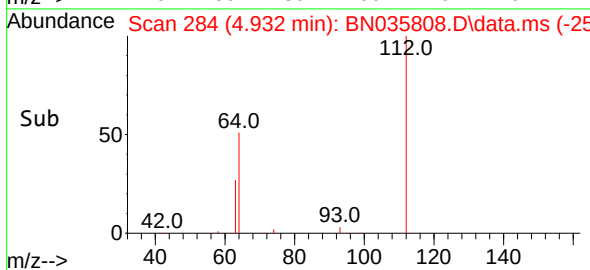
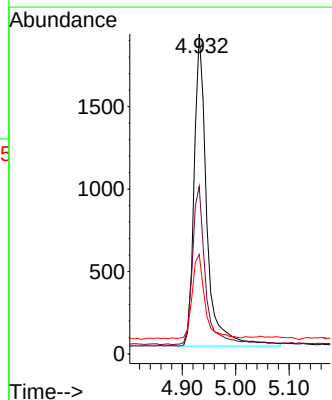
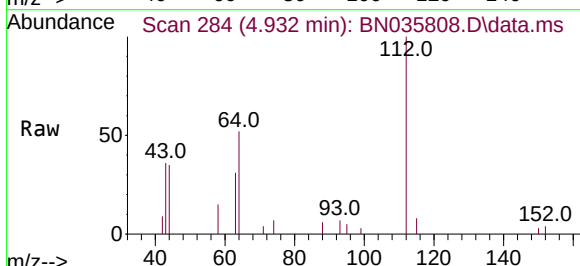
RT: 4.932 min Scan# 284

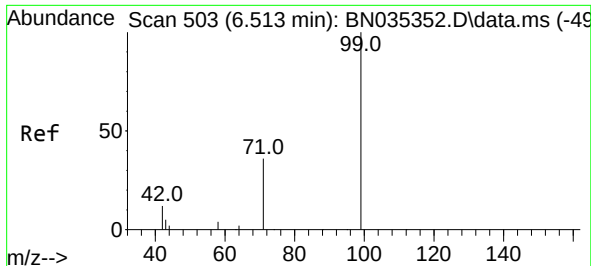
Delta R.T. -0.007 min

Lab File: BN035808.D

Acq: 24 Dec 2024 06:34

| Tgt Ion: | 112   | Resp: | 3134  |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 112      | 100   |       |       |
| 64       | 51.3  | 39.8  | 59.8  |
| 63       | 27.3  | 21.0  | 31.6  |





#5

Phenol-d6

Concen: 0.278 ng

RT: 6.477 min Scan# 498

Delta R.T. -0.015 min

Lab File: BN035808.D

Acq: 24 Dec 2024 06:34

Instrument :

BNA\_N

ClientSampleId :

PB165667BS

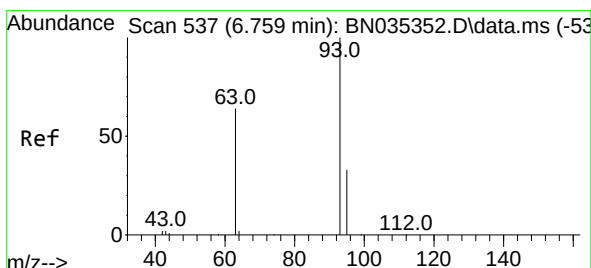
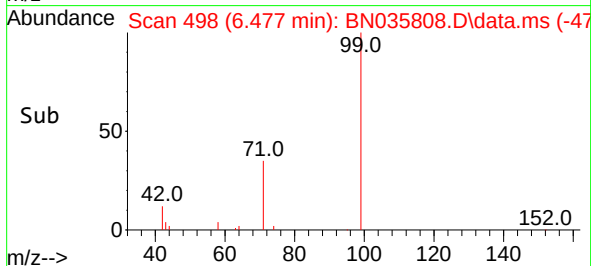
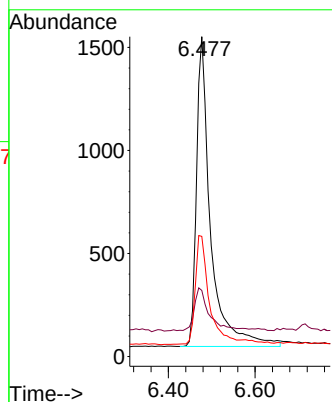
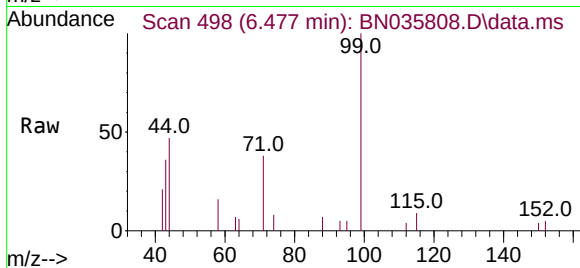
Tgt Ion: 99 Resp: 3400

Ion Ratio Lower Upper

99 100

42 14.5 11.4 17.2

71 34.8 29.3 43.9



#6

bis(2-Chloroethyl)ether

Concen: 0.333 ng

RT: 6.715 min Scan# 531

Delta R.T. -0.015 min

Lab File: BN035808.D

Acq: 24 Dec 2024 06:34

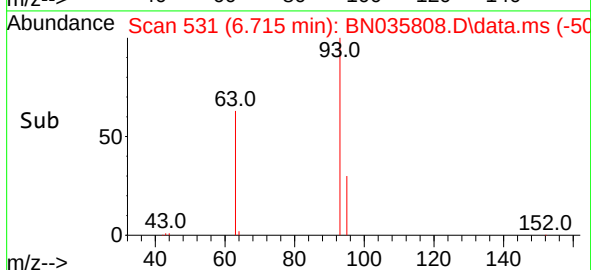
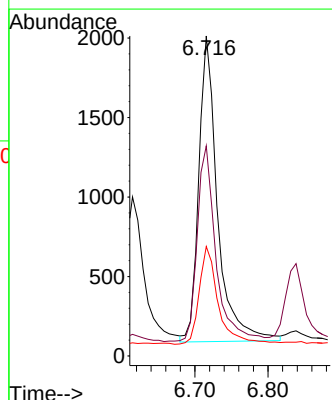
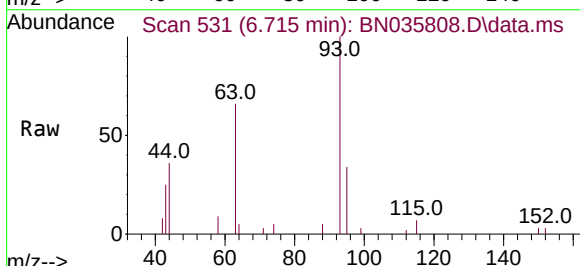
Tgt Ion: 93 Resp: 3429

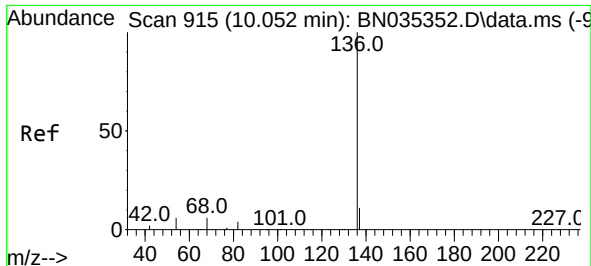
Ion Ratio Lower Upper

93 100

63 63.3 50.4 75.6

95 32.7 25.7 38.5

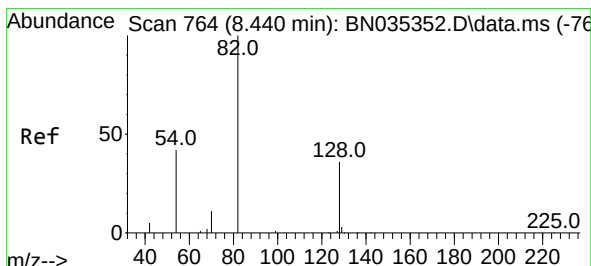
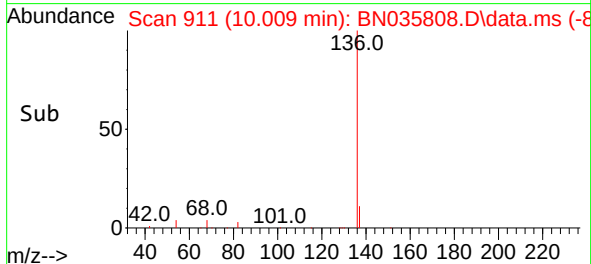
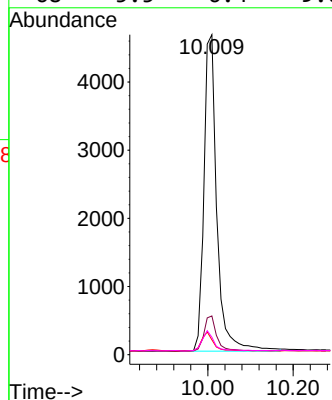
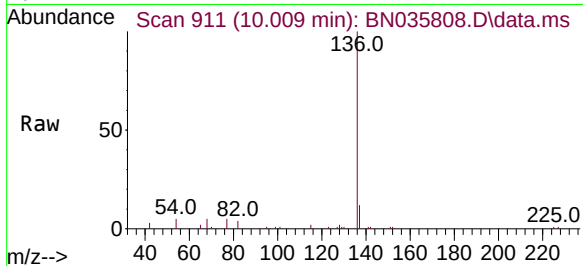




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.009 min Scan# 915  
Delta R.T. -0.011 min  
Lab File: BN035808.D  
Acq: 24 Dec 2024 06:34

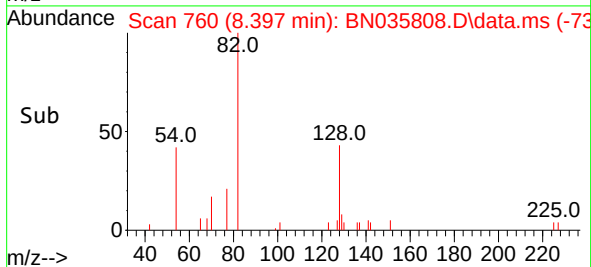
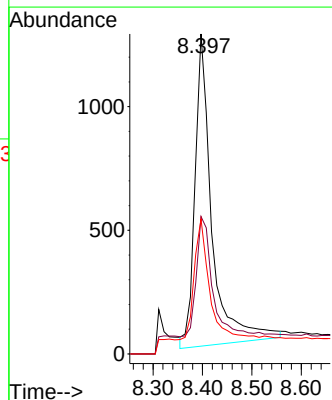
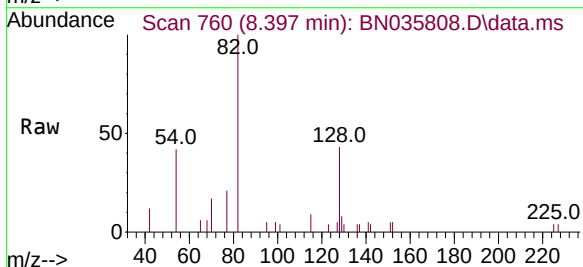
Instrument :  
BNA\_N  
ClientSampleId :  
PB165667BS

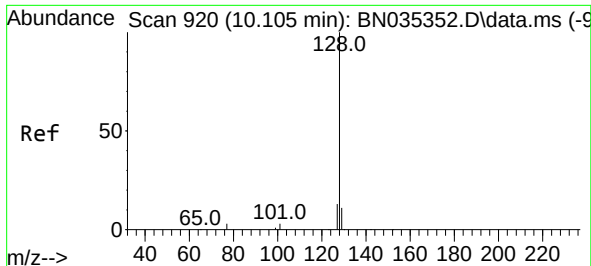
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 136   | Resp: | 9754 |
| Ion Ratio | Lower | Upper |      |
| 136       | 100   |       |      |
| 137       | 12.1  | 10.2  | 15.2 |
| 54        | 4.7   | 6.1   | 9.1# |
| 68        | 5.5   | 6.4   | 9.6# |



#8  
Nitrobenzene-d5  
Concen: 0.505 ng  
RT: 8.397 min Scan# 760  
Delta R.T. -0.011 min  
Lab File: BN035808.D  
Acq: 24 Dec 2024 06:34

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 82    | Resp: | 3006 |
| Ion Ratio | Lower | Upper |      |
| 82        | 100   |       |      |
| 128       | 43.0  | 33.4  | 50.0 |
| 54        | 42.2  | 36.7  | 55.1 |

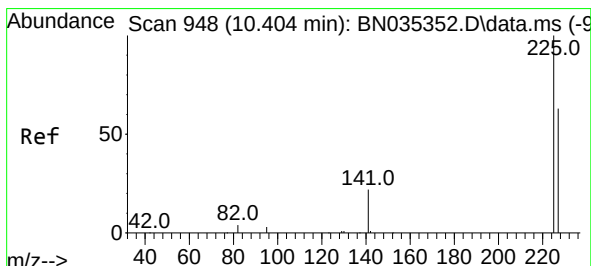
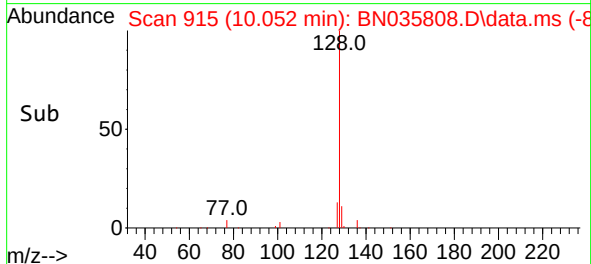
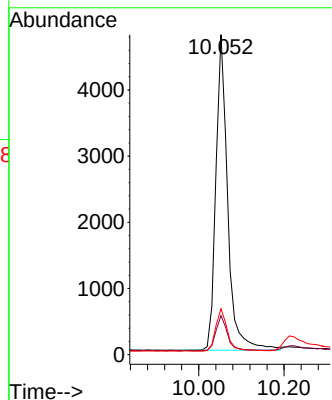
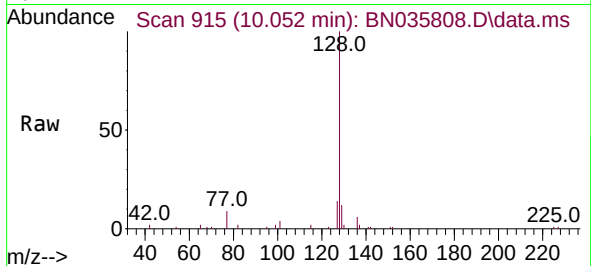




#9  
Naphthalene  
Concen: 0.357 ng  
RT: 10.052 min Scan# 915  
Delta R.T. -0.011 min  
Lab File: BN035808.D  
Acq: 24 Dec 2024 06:34

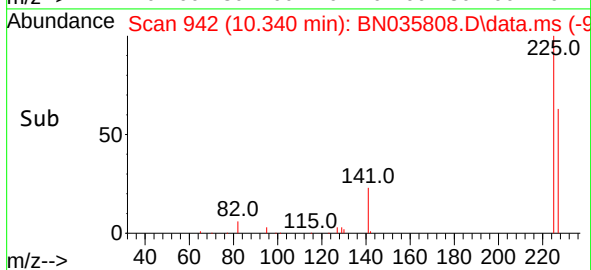
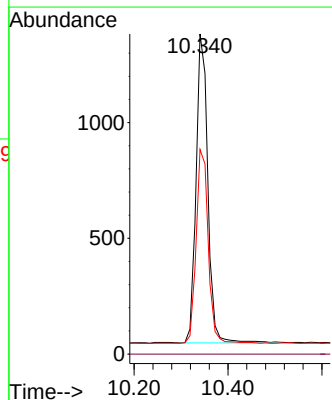
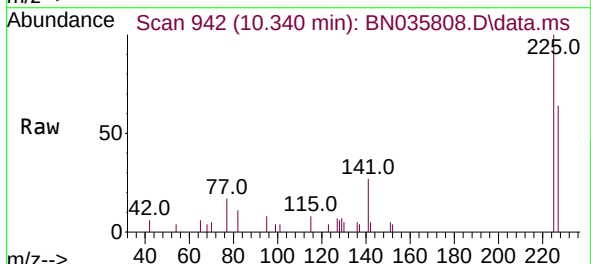
Instrument :  
BNA\_N  
ClientSampleId :  
PB165667BS

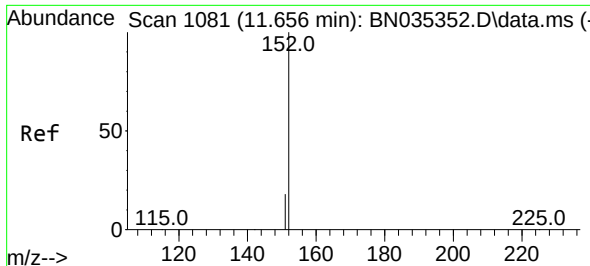
Tgt Ion:128 Resp: 9192  
Ion Ratio Lower Upper  
128 100  
129 12.2 9.8 14.6  
127 14.4 11.4 17.2



#10  
Hexachlorobutadiene  
Concen: 0.391 ng  
RT: 10.340 min Scan# 942  
Delta R.T. -0.021 min  
Lab File: BN035808.D  
Acq: 24 Dec 2024 06:34

Tgt Ion:225 Resp: 2323  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 64.7 51.3 76.9

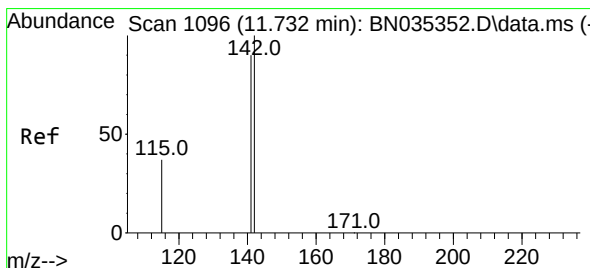
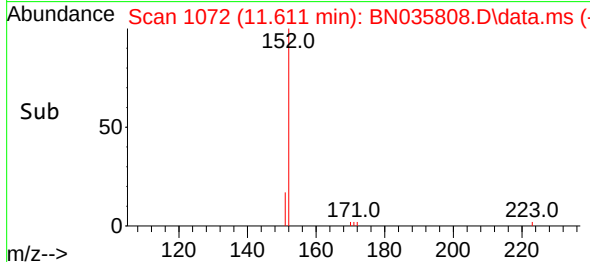
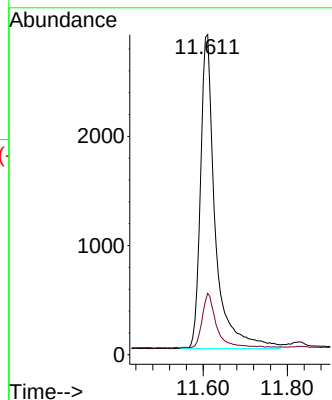
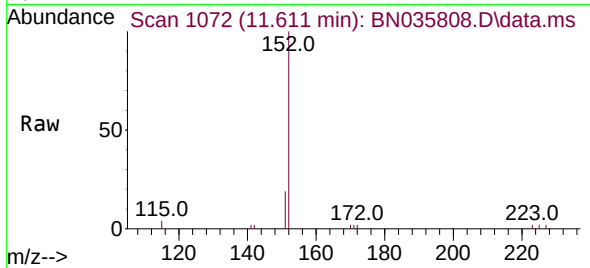




#11  
2-Methylnaphthalene-d10  
Concen: 0.459 ng  
RT: 11.611 min Scan# 1072  
Delta R.T. -0.010 min  
Lab File: BN035808.D  
Acq: 24 Dec 2024 06:34

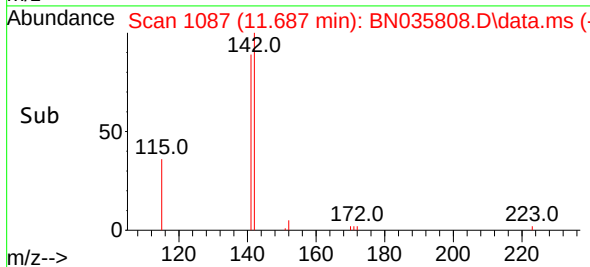
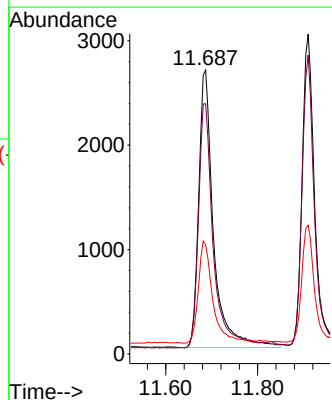
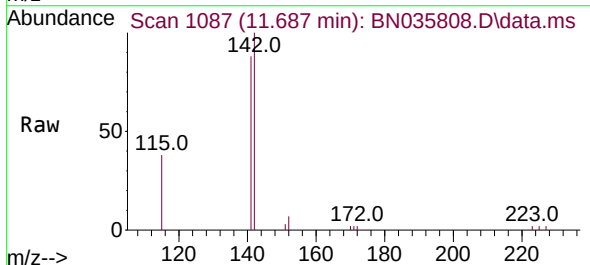
Instrument :  
BNA\_N  
ClientSampleId :  
PB165667BS

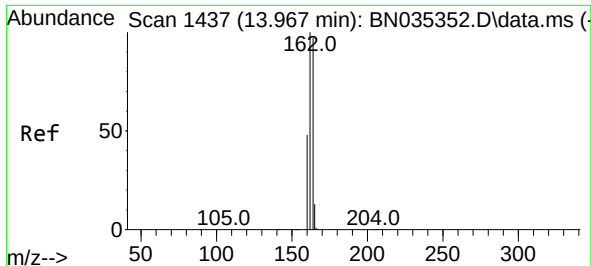
Tgt Ion:152 Resp: 7007  
Ion Ratio Lower Upper  
152 100  
151 16.5 16.6 25.0#



#12  
2-Methylnaphthalene  
Concen: 0.324 ng  
RT: 11.687 min Scan# 1087  
Delta R.T. -0.010 min  
Lab File: BN035808.D  
Acq: 24 Dec 2024 06:34

Tgt Ion:142 Resp: 5969  
Ion Ratio Lower Upper  
142 100  
141 88.2 72.2 108.4  
115 38.4 31.4 47.0

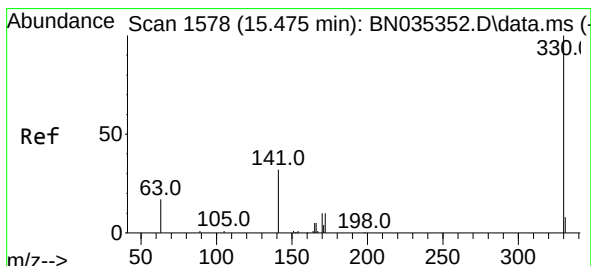
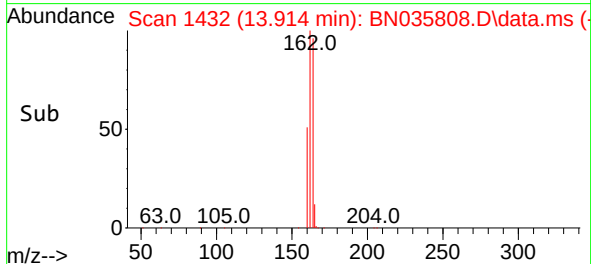
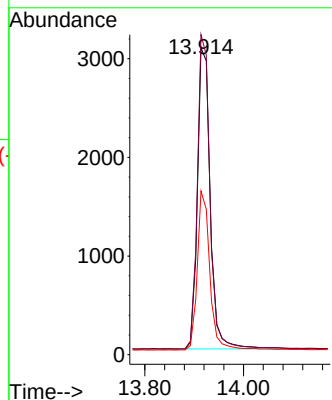
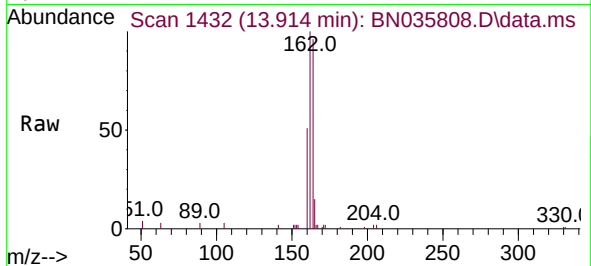




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.914 min Scan# 14  
Delta R.T. -0.021 min  
Lab File: BN035808.D  
Acq: 24 Dec 2024 06:34

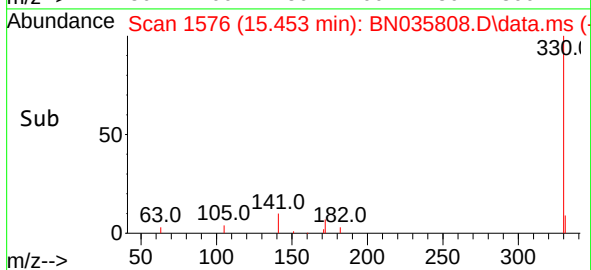
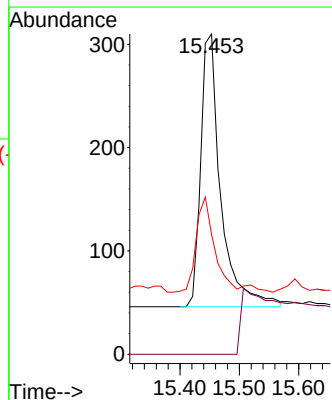
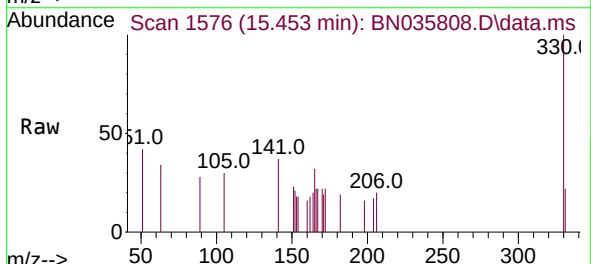
Instrument :  
BNA\_N  
ClientSampleId :  
PB165667BS

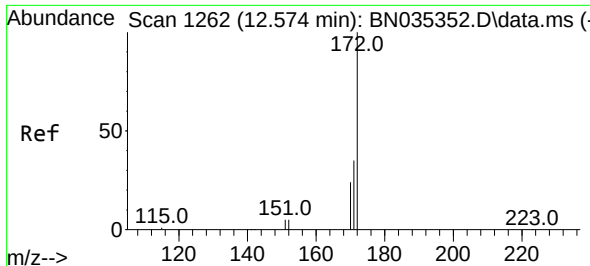
Tgt Ion:164 Resp: 5527  
Ion Ratio Lower Upper  
164 100  
162 104.3 82.2 123.2  
160 53.3 40.1 60.1



#14  
2,4,6-Tribromophenol  
Concen: 0.165 ng  
RT: 15.453 min Scan# 1576  
Delta R.T. -0.000 min  
Lab File: BN035808.D  
Acq: 24 Dec 2024 06:34

Tgt Ion:330 Resp: 647  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 30.3 26.6 40.0

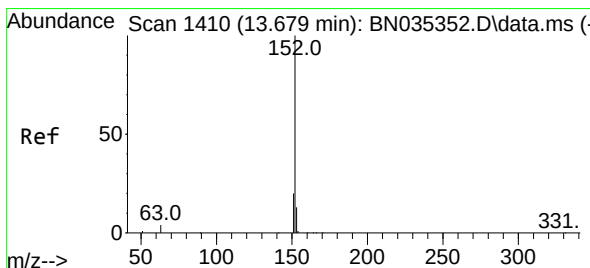
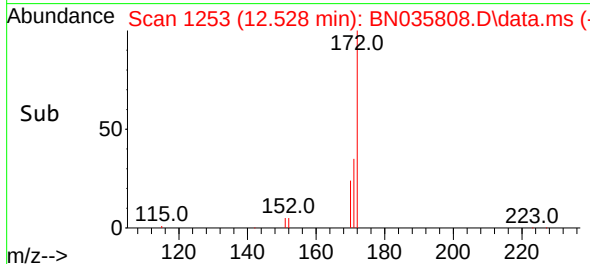
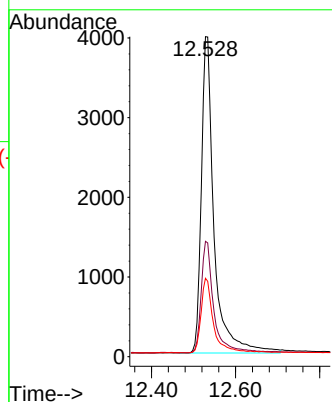
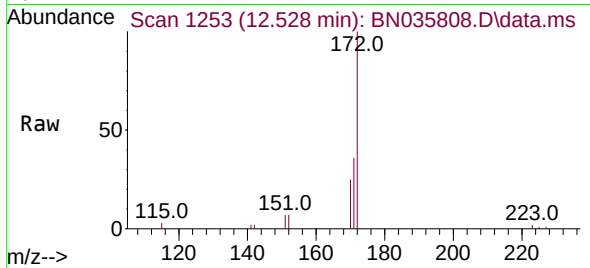




#15  
2-Fluorobiphenyl  
Concen: 0.399 ng  
RT: 12.528 min Scan# 11  
Delta R.T. -0.015 min  
Lab File: BN035808.D  
Acq: 24 Dec 2024 06:34

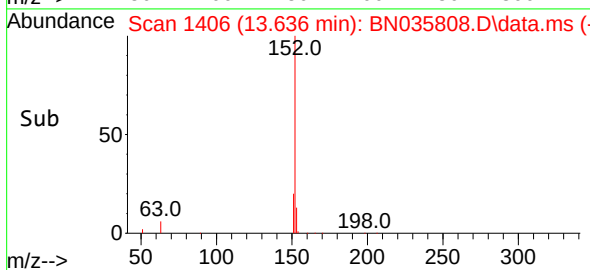
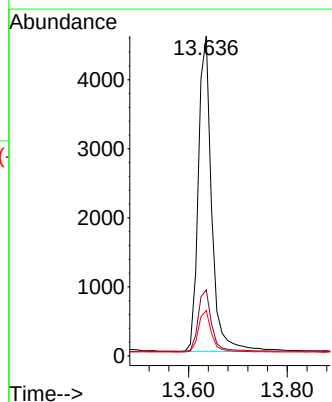
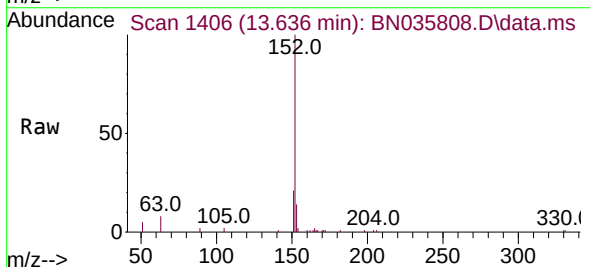
Instrument :  
BNA\_N  
ClientSampleId :  
PB165667BS

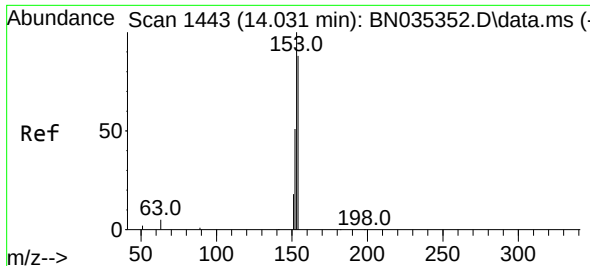
Tgt Ion:172 Resp: 8330  
Ion Ratio Lower Upper  
172 100  
171 36.1 29.0 43.4  
170 24.5 19.8 29.8



#16  
Acenaphthylene  
Concen: 0.370 ng  
RT: 13.636 min Scan# 1406  
Delta R.T. -0.011 min  
Lab File: BN035808.D  
Acq: 24 Dec 2024 06:34

Tgt Ion:152 Resp: 8595  
Ion Ratio Lower Upper  
152 100  
151 19.8 16.2 24.2  
153 13.1 10.4 15.6

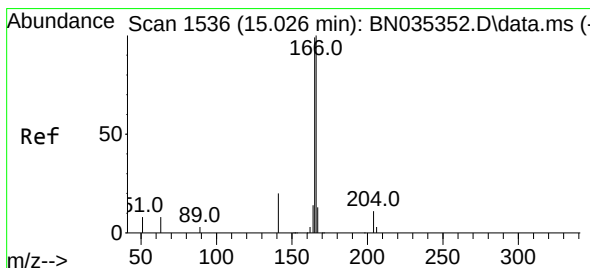
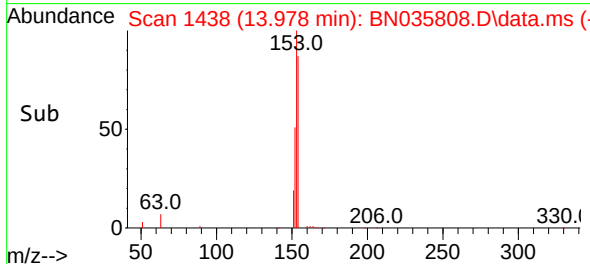
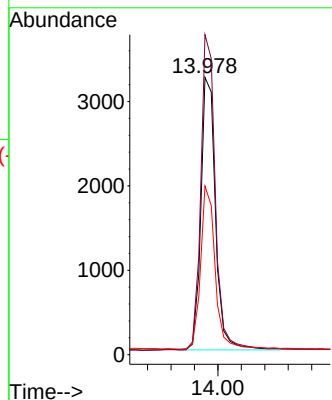
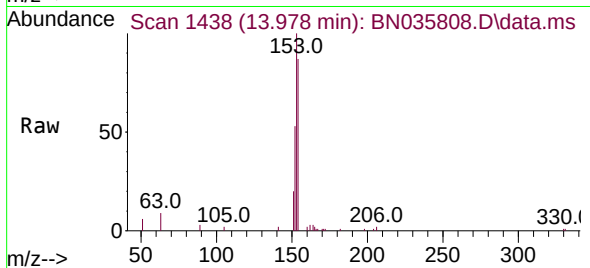




#17  
Acenaphthene  
Concen: 0.365 ng  
RT: 13.978 min Scan# 14  
Delta R.T. -0.021 min  
Lab File: BN035808.D  
Acq: 24 Dec 2024 06:34

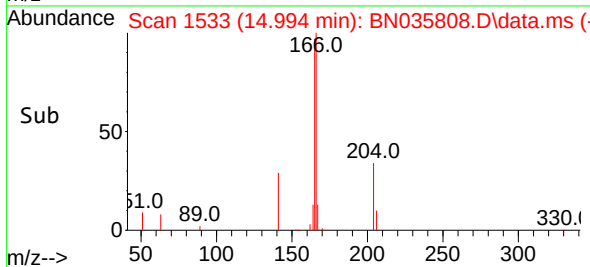
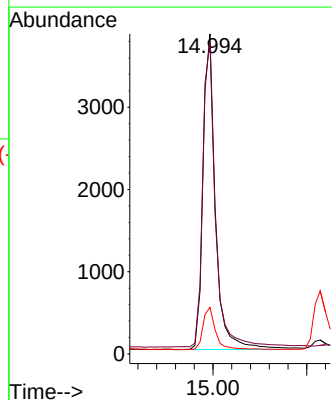
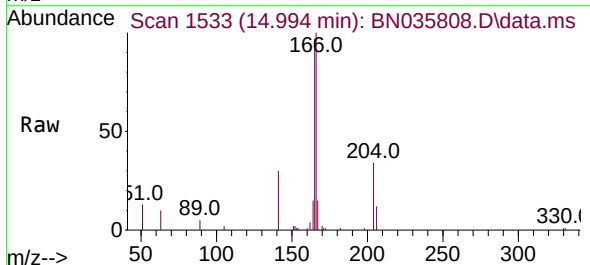
Instrument :  
BNA\_N  
ClientSampleId :  
PB165667BS

Tgt Ion:154 Resp: 5618  
Ion Ratio Lower Upper  
154 100  
153 115.4 92.6 139.0  
152 59.8 49.0 73.6

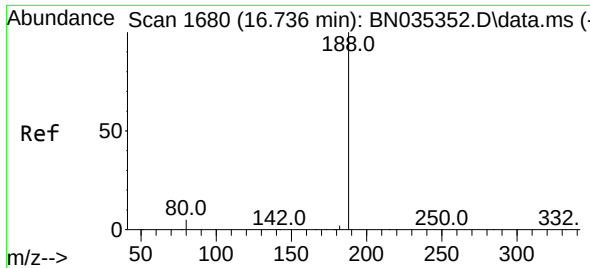


#18  
Fluorene  
Concen: 0.320 ng  
RT: 14.994 min Scan# 1533  
Delta R.T. -0.011 min  
Lab File: BN035808.D  
Acq: 24 Dec 2024 06:34

Tgt Ion:166 Resp: 7068  
Ion Ratio Lower Upper  
166 100  
165 98.7 79.7 119.5  
167 13.7 10.8 16.2



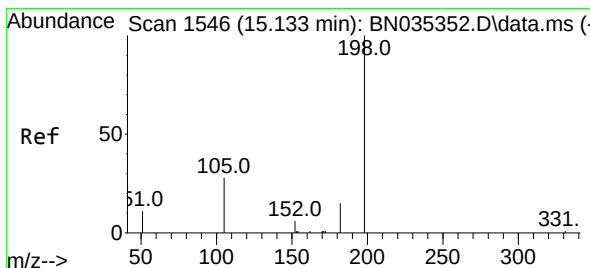
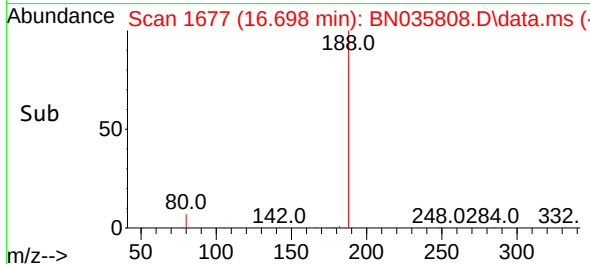
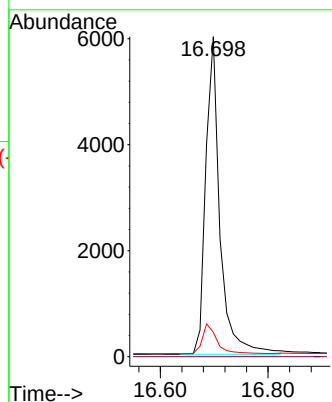
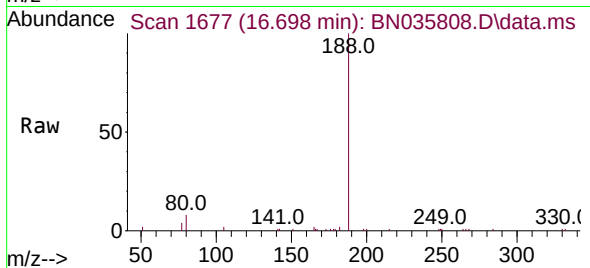




#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 16.698 min Scan# 1677  
Delta R.T. -0.000 min  
Lab File: BN035808.D  
Acq: 24 Dec 2024 06:34

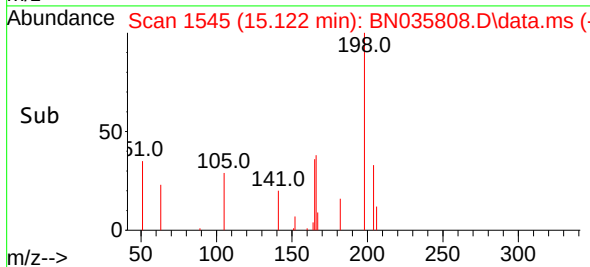
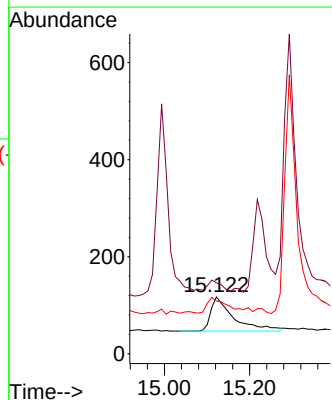
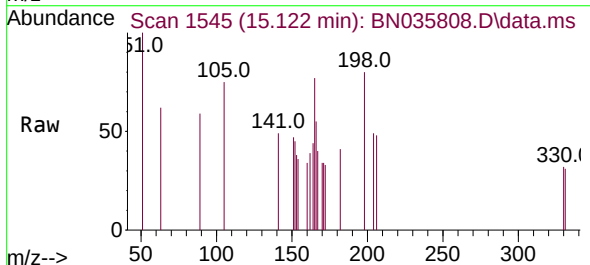
Instrument :  
BNA\_N  
ClientSampleId :  
PB165667BS

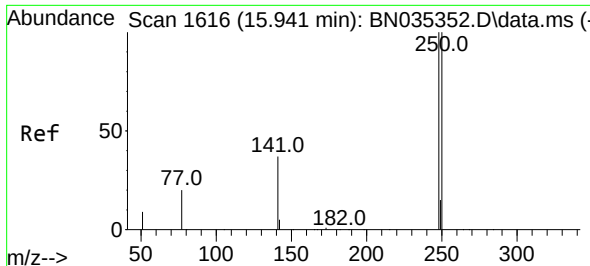
Tgt Ion:188 Resp: 10920  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 7.6 4.6 6.8#



#20  
4,6-Dinitro-2-methylphenol  
Concen: 0.242 ng  
RT: 15.122 min Scan# 1545  
Delta R.T. -0.000 min  
Lab File: BN035808.D  
Acq: 24 Dec 2024 06:34

Tgt Ion:198 Resp: 260  
Ion Ratio Lower Upper  
198 100  
51 124.8 46.5 69.7#  
105 93.2 45.3 67.9#

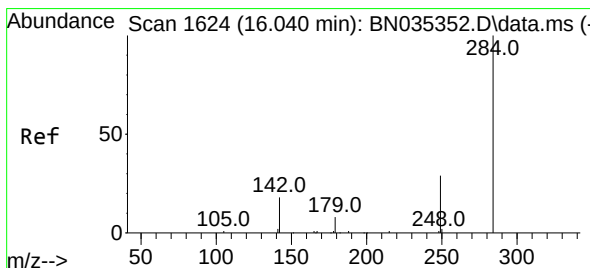
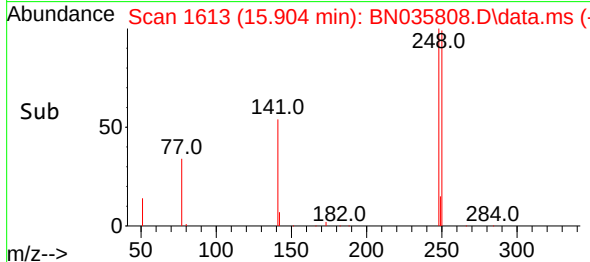
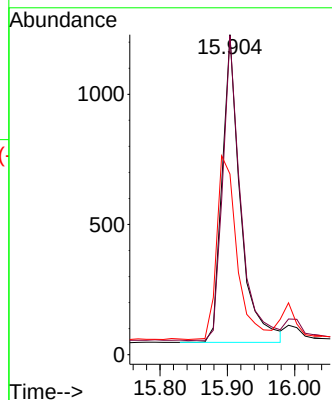
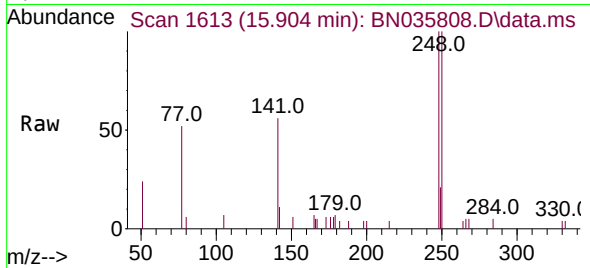




#21  
4-Bromophenyl-phenylether  
Concen: 0.349 ng  
RT: 15.904 min Scan# 1613  
Delta R.T. -0.013 min  
Lab File: BN035808.D  
Acq: 24 Dec 2024 06:34

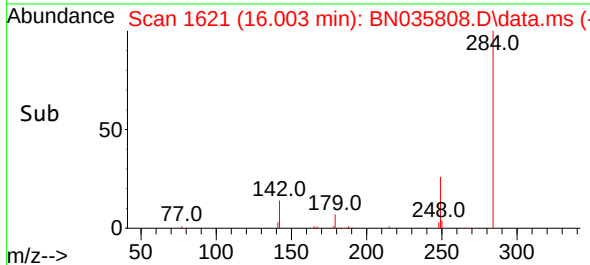
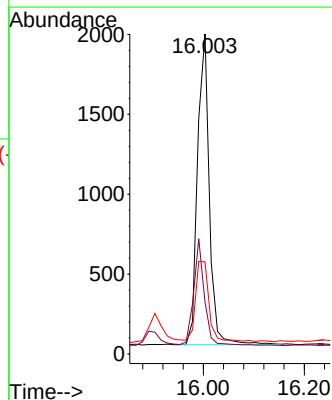
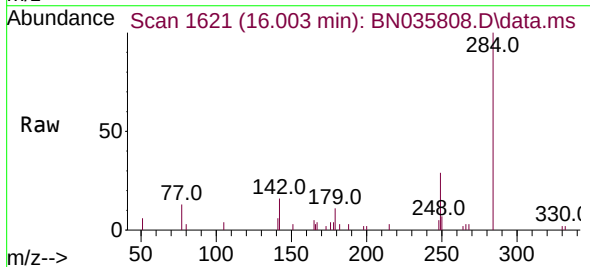
Instrument :  
BNA\_N  
ClientSampleId :  
PB165667BS

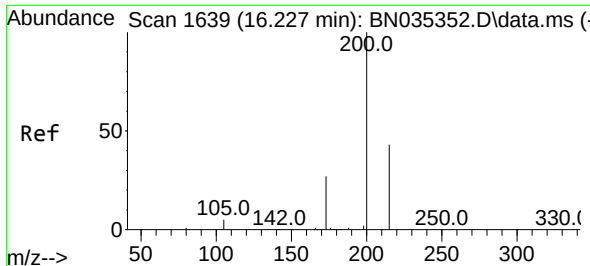
Tgt Ion:248 Resp: 2229  
Ion Ratio Lower Upper  
248 100  
250 99.8 80.6 120.8  
141 56.5 31.5 47.3#



#22  
Hexachlorobenzene  
Concen: 0.422 ng  
RT: 16.003 min Scan# 1621  
Delta R.T. -0.013 min  
Lab File: BN035808.D  
Acq: 24 Dec 2024 06:34

Tgt Ion:284 Resp: 3165  
Ion Ratio Lower Upper  
284 100  
142 31.6 26.7 40.1  
249 30.2 24.6 36.8





#23

Atrazine

Concen: 0.356 ng

RT: 16.202 min Scan# 1637

Delta R.T. -0.000 min

Lab File: BN035808.D

Acq: 24 Dec 2024 06:34

Instrument :

BNA\_N

ClientSampleId :

PB165667BS

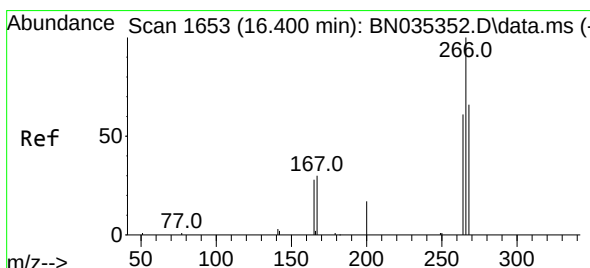
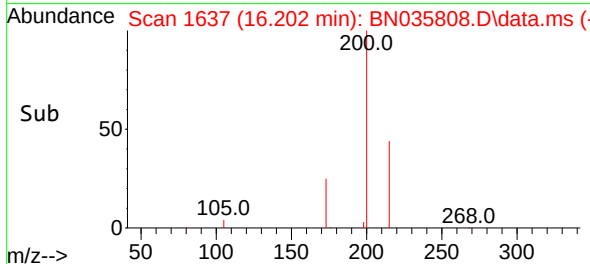
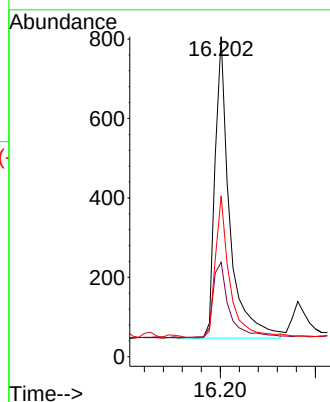
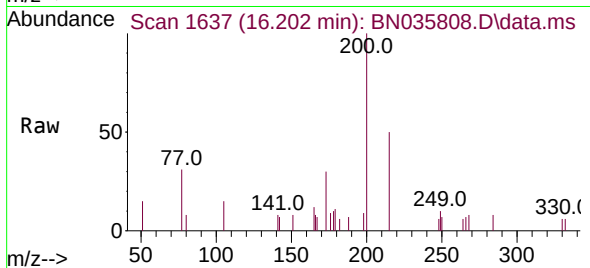
Tgt Ion:200 Resp: 1619

Ion Ratio Lower Upper

200 100

173 29.5 24.1 36.1

215 50.2 36.9 55.3



#24

Pentachlorophenol

Concen: 0.341 ng

RT: 16.363 min Scan# 1650

Delta R.T. -0.013 min

Lab File: BN035808.D

Acq: 24 Dec 2024 06:34

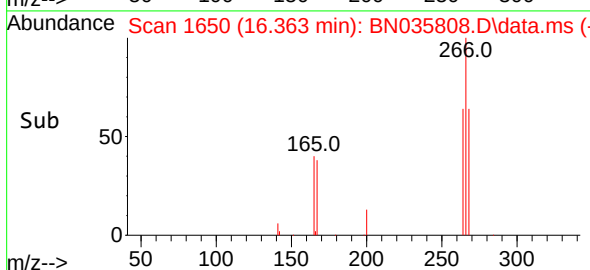
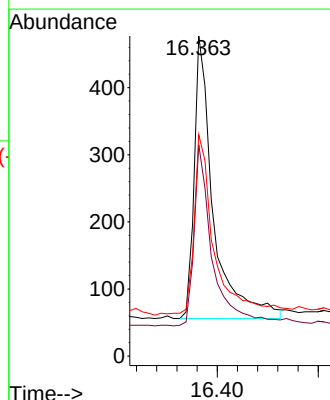
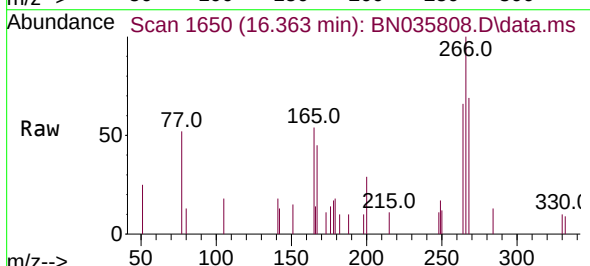
Tgt Ion:266 Resp: 1112

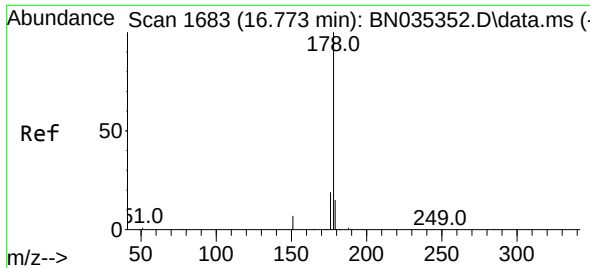
Ion Ratio Lower Upper

266 100

264 62.4 42.3 63.5

268 68.0 43.3 64.9#

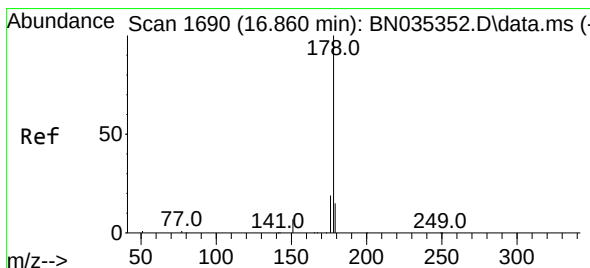
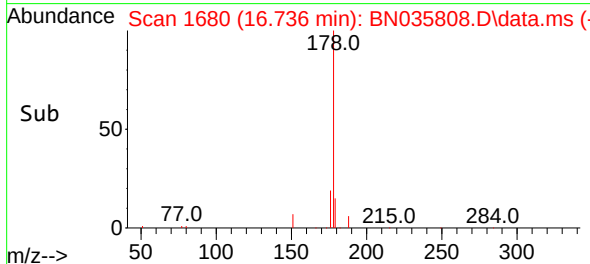
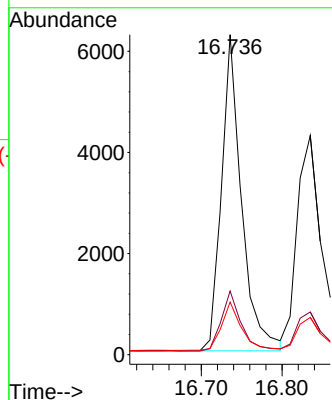
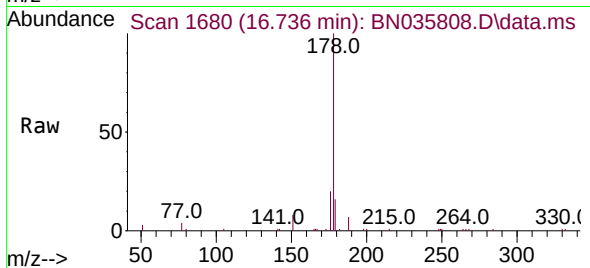




#25  
Phenanthrene  
Concen: 0.360 ng  
RT: 16.736 min Scan# 1680  
Delta R.T. -0.013 min  
Lab File: BN035808.D  
Acq: 24 Dec 2024 06:34

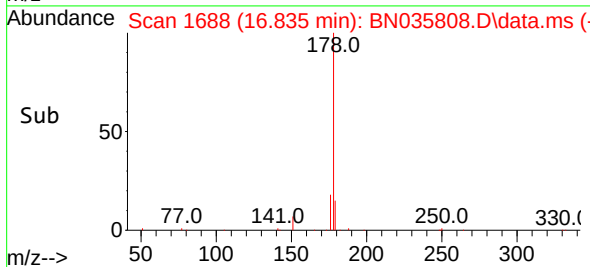
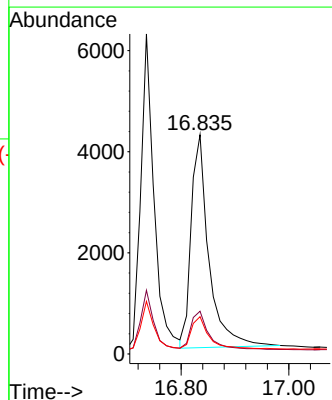
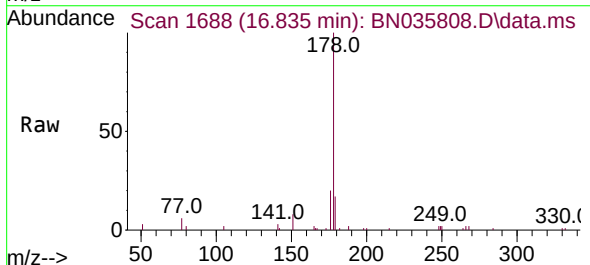
Instrument :  
BNA\_N  
ClientSampleId :  
PB165667BS

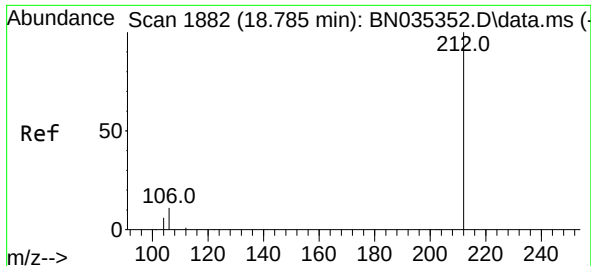
Tgt Ion:178 Resp: 10790  
Ion Ratio Lower Upper  
178 100  
176 19.0 15.4 23.2  
179 15.2 12.3 18.5



#26  
Anthracene  
Concen: 0.355 ng  
RT: 16.835 min Scan# 1688  
Delta R.T. -0.000 min  
Lab File: BN035808.D  
Acq: 24 Dec 2024 06:34

Tgt Ion:178 Resp: 9628  
Ion Ratio Lower Upper  
178 100  
176 18.7 15.0 22.6  
179 15.4 12.6 18.8

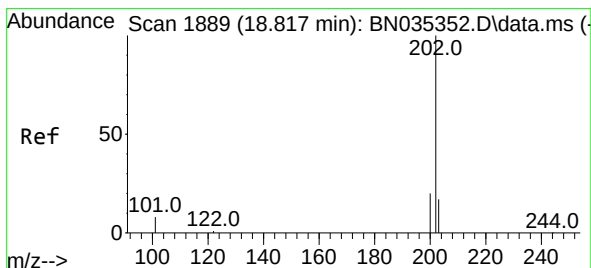
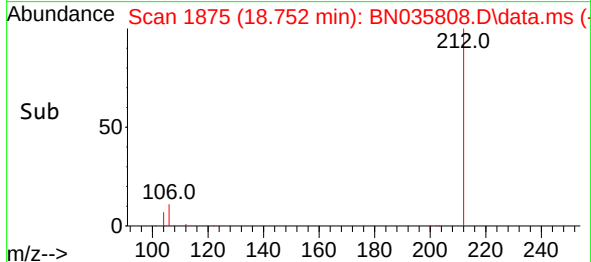
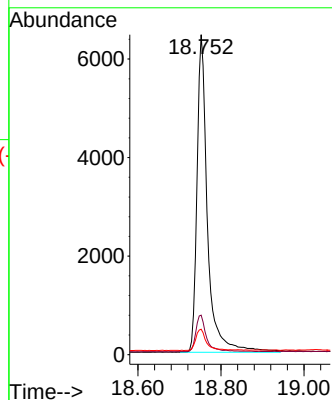
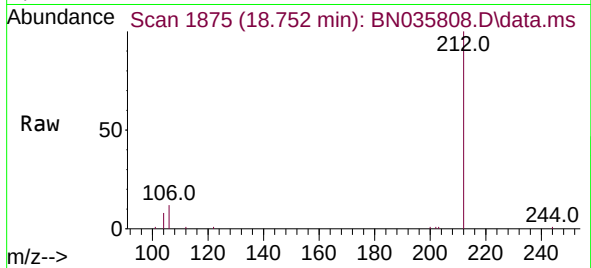




#27  
Fluoranthene-d10  
Concen: 0.367 ng  
RT: 18.752 min Scan# 1882  
Delta R.T. -0.009 min  
Lab File: BN035808.D  
Acq: 24 Dec 2024 06:34

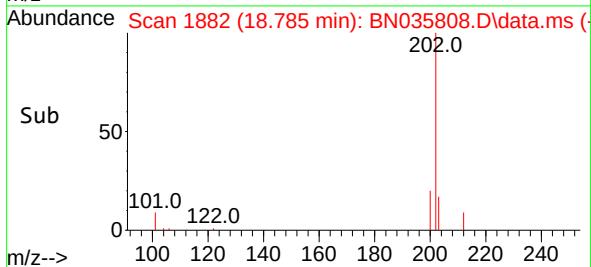
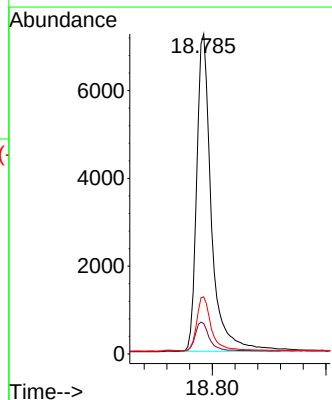
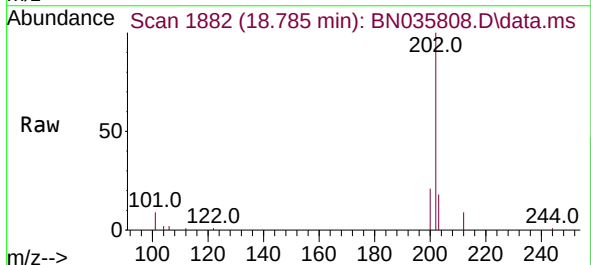
Instrument :  
BNA\_N  
ClientSampleId :  
PB165667BS

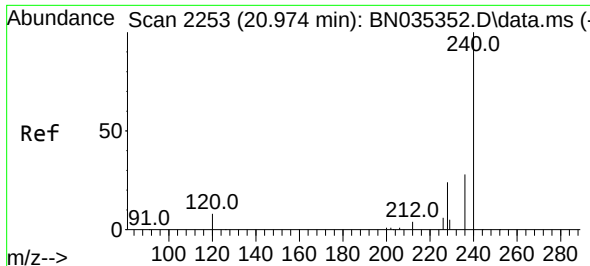
Tgt Ion:212 Resp: 11348  
Ion Ratio Lower Upper  
212 100  
106 11.5 9.2 13.8  
104 6.6 5.3 7.9



#28  
Fluoranthene  
Concen: 0.320 ng  
RT: 18.785 min Scan# 1882  
Delta R.T. -0.005 min  
Lab File: BN035808.D  
Acq: 24 Dec 2024 06:34

Tgt Ion:202 Resp: 12957  
Ion Ratio Lower Upper  
202 100  
101 9.3 7.4 11.0  
203 16.8 13.7 20.5

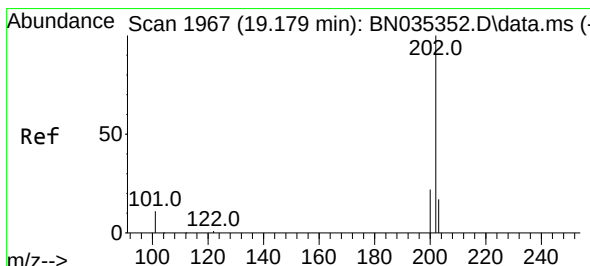
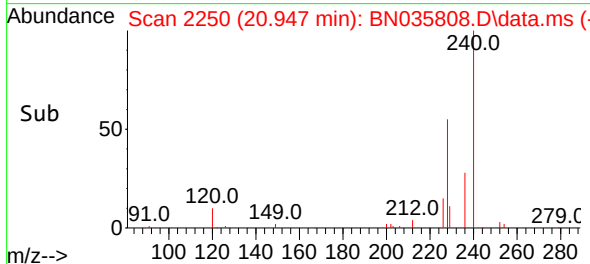
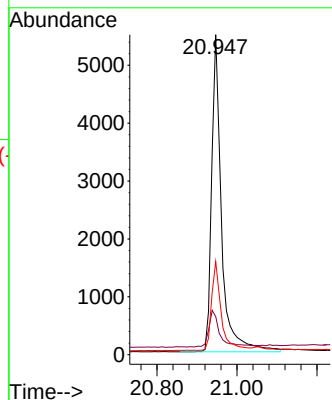
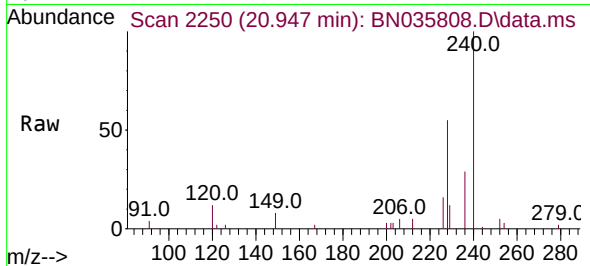




#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 20.947 min Scan# 21  
Delta R.T. -0.009 min  
Lab File: BN035808.D  
Acq: 24 Dec 2024 06:34

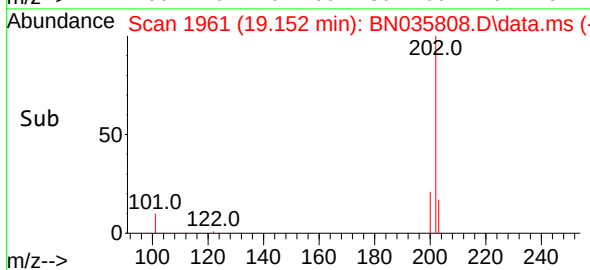
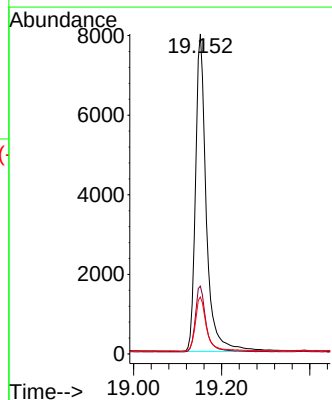
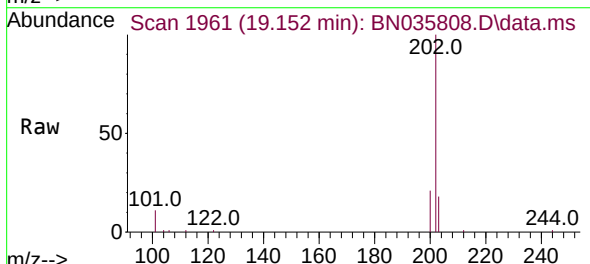
Instrument :  
BNA\_N  
ClientSampleId :  
PB165667BS

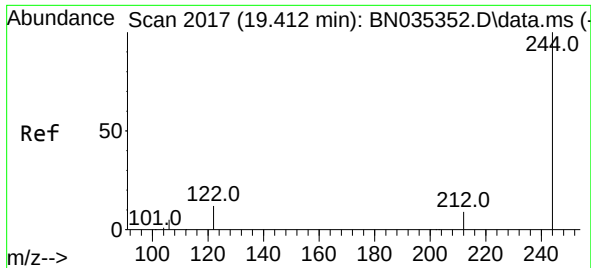
Tgt Ion:240 Resp: 9467  
Ion Ratio Lower Upper  
240 100  
120 11.9 7.9 11.9#  
236 29.1 22.9 34.3



#30  
Pyrene  
Concen: 0.390 ng  
RT: 19.152 min Scan# 1961  
Delta R.T. -0.009 min  
Lab File: BN035808.D  
Acq: 24 Dec 2024 06:34

Tgt Ion:202 Resp: 13632  
Ion Ratio Lower Upper  
202 100  
200 20.9 17.0 25.4  
203 17.6 14.3 21.5

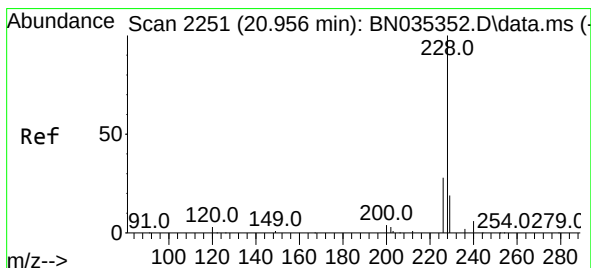
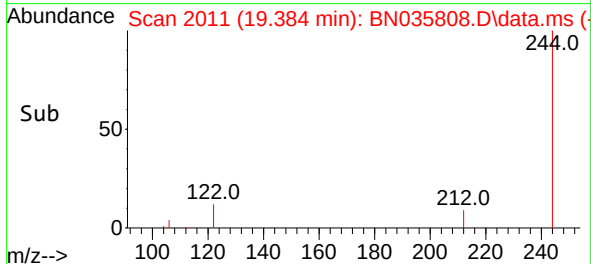
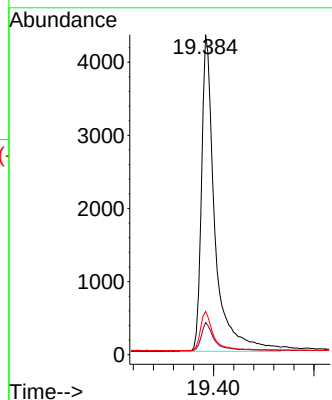
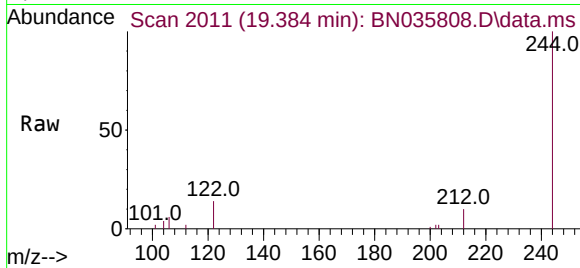




#31  
 Terphenyl-d14  
 Concen: 0.431 ng  
 RT: 19.384 min Scan# 20  
 Delta R.T. -0.005 min  
 Lab File: BN035808.D  
 Acq: 24 Dec 2024 06:34

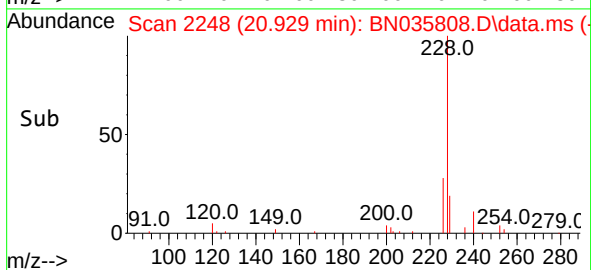
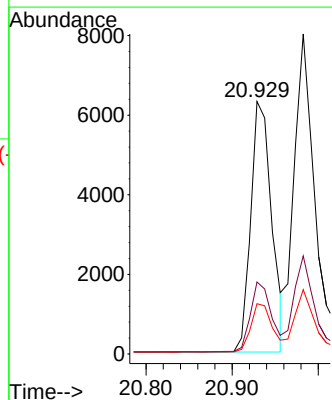
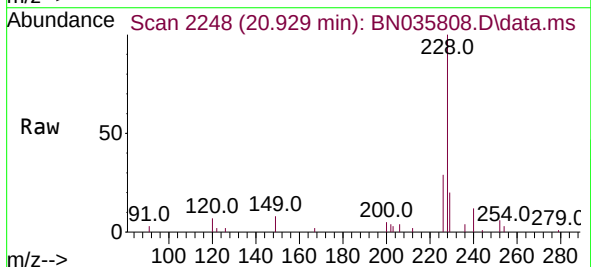
Instrument :  
 BNA\_N  
 ClientSampleId :  
 PB165667BS

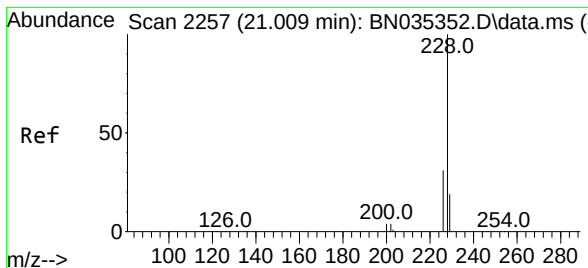
Tgt Ion:244 Resp: 8056  
 Ion Ratio Lower Upper  
 244 100  
 212 10.1 8.1 12.1  
 122 13.5 10.3 15.5



#32  
 Benzo(a)anthracene  
 Concen: 0.321 ng  
 RT: 20.929 min Scan# 2248  
 Delta R.T. -0.009 min  
 Lab File: BN035808.D  
 Acq: 24 Dec 2024 06:34

Tgt Ion:228 Resp: 10627  
 Ion Ratio Lower Upper  
 228 100  
 226 28.5 22.5 33.7  
 229 19.9 15.8 23.8





#33

Chrysene

Concen: 0.415 ng

RT: 20.983 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035808.D

Acq: 24 Dec 2024 06:34

Instrument :

BNA\_N

ClientSampleId :

PB165667BS

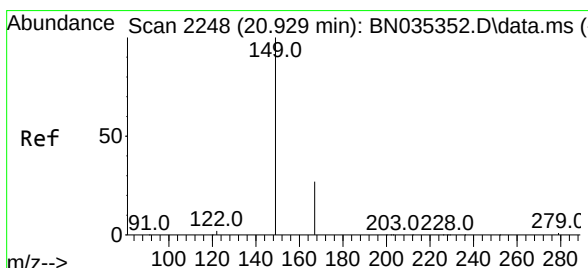
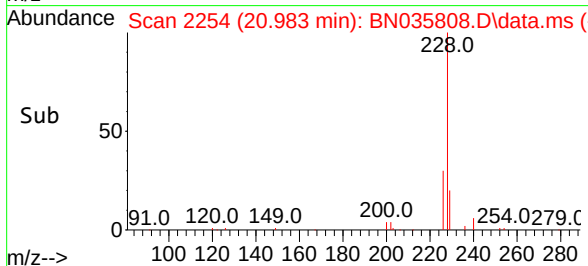
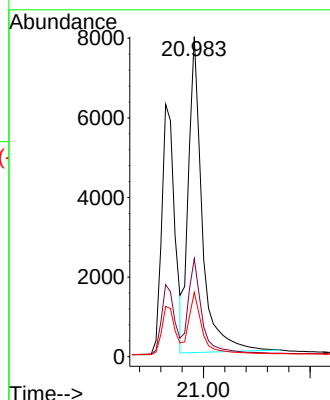
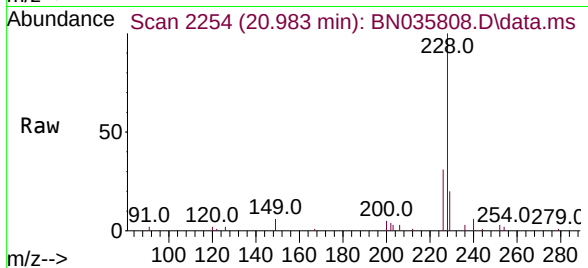
Tgt Ion:228 Resp: 14185

Ion Ratio Lower Upper

228 100

226 30.6 24.6 37.0

229 20.1 15.9 23.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.355 ng

RT: 20.902 min Scan# 2245

Delta R.T. -0.009 min

Lab File: BN035808.D

Acq: 24 Dec 2024 06:34

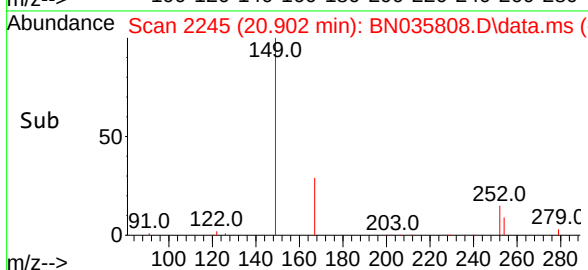
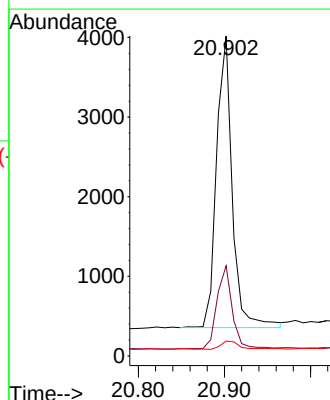
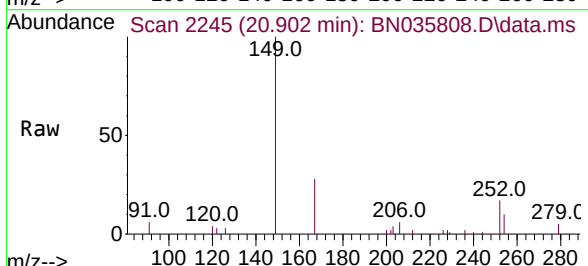
Tgt Ion:149 Resp: 4640

Ion Ratio Lower Upper

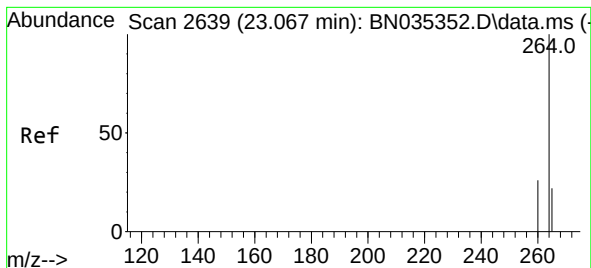
149 100

167 27.6 22.2 33.4

279 3.2 2.7 4.1







#35

Perylene-d12

Concen: 0.400 ng

RT: 23.032 min Scan# 2

Delta R.T. -0.009 min

Lab File: BN035808.D

Acq: 24 Dec 2024 06:34

Instrument :

BNA\_N

ClientSampleId :

PB165667BS

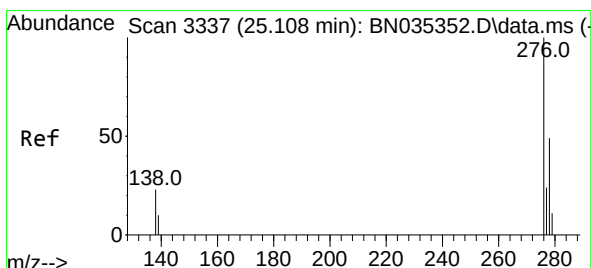
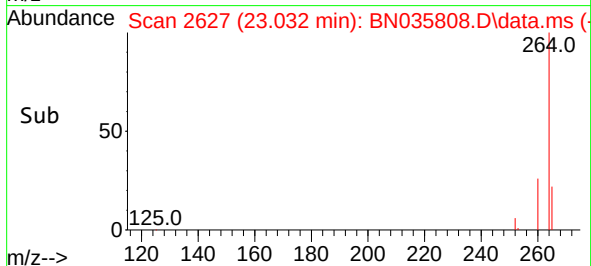
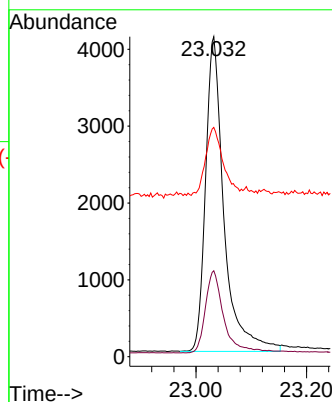
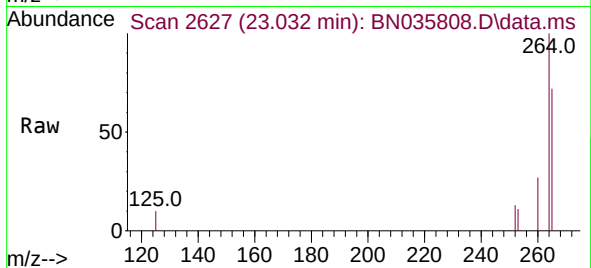
Tgt Ion:264 Resp: 9435

Ion Ratio Lower Upper

264 100

260 26.9 21.4 32.2

265 71.7 40.2 60.4#



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.366 ng

RT: 25.053 min Scan# 3318

Delta R.T. -0.015 min

Lab File: BN035808.D

Acq: 24 Dec 2024 06:34

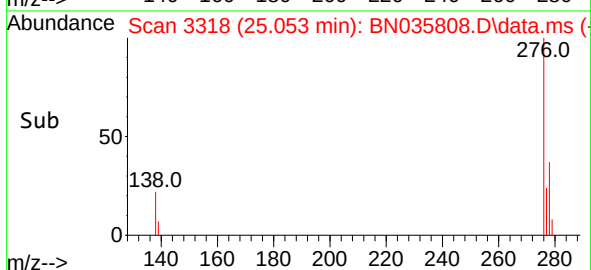
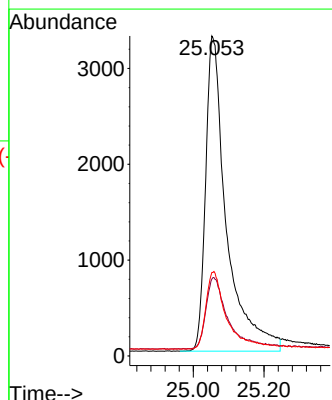
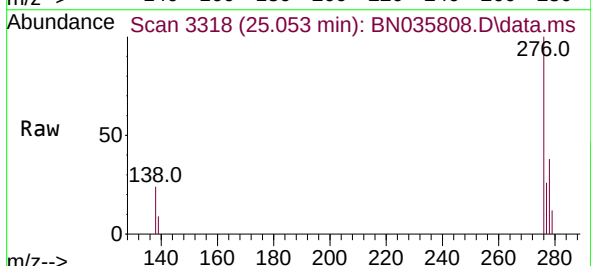
Tgt Ion:276 Resp: 13497

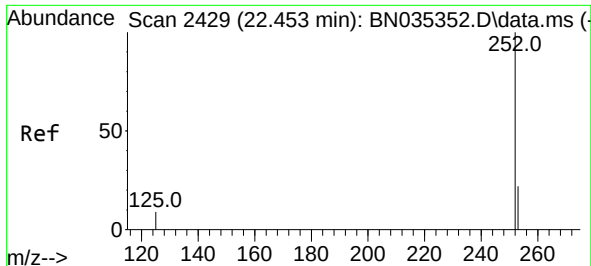
Ion Ratio Lower Upper

276 100

138 22.1 19.4 29.0

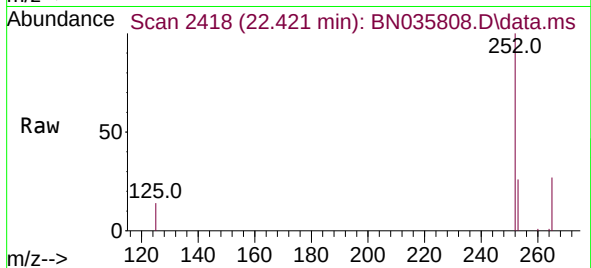
277 24.4 19.8 29.6



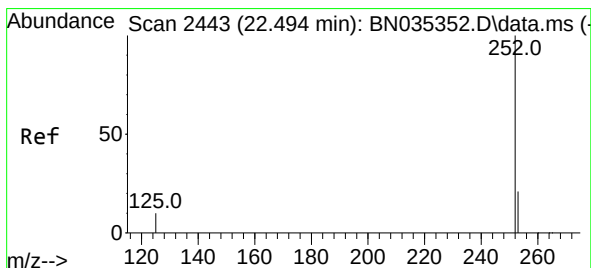
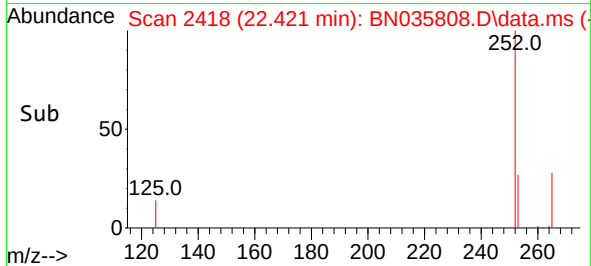
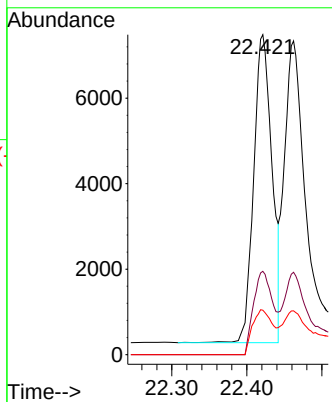


#37  
Benzo(b)fluoranthene  
Concen: 0.657 ng  
RT: 22.421 min Scan# 2418  
Delta R.T. -0.009 min  
Lab File: BN035808.D  
Acq: 24 Dec 2024 06:34

Instrument :  
BNA\_N  
ClientSampleId :  
PB165667BS

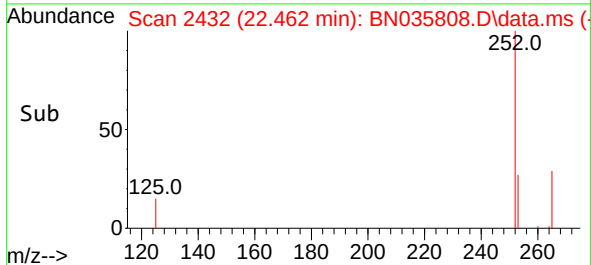
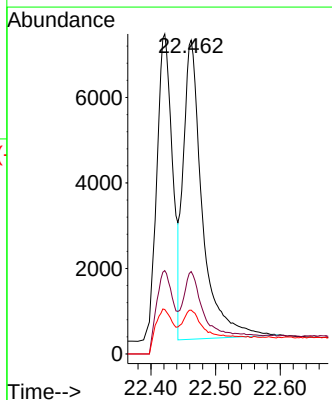
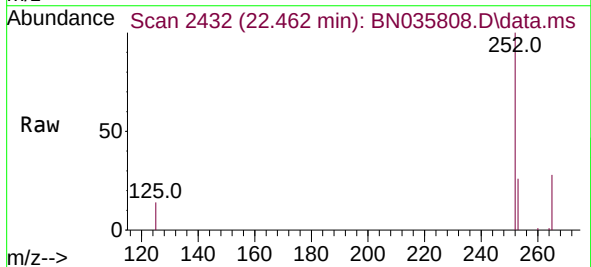


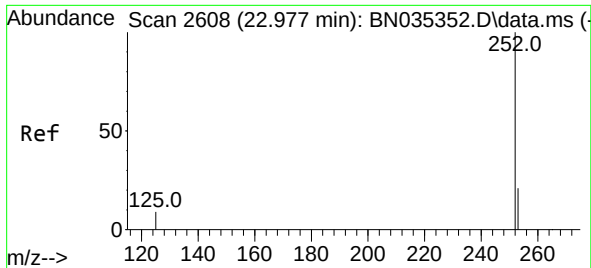
Tgt Ion:252 Resp: 22672  
Ion Ratio Lower Upper  
252 100  
253 26.1 19.6 29.4  
125 13.9 9.6 14.4



#38  
Benzo(k)fluoranthene  
Concen: 0.422 ng  
RT: 22.462 min Scan# 2432  
Delta R.T. -0.009 min  
Lab File: BN035808.D  
Acq: 24 Dec 2024 06:34

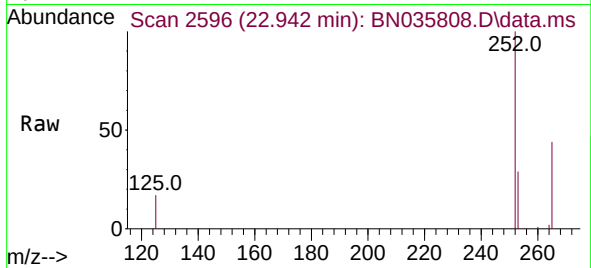
Tgt Ion:252 Resp: 14330  
Ion Ratio Lower Upper  
252 100  
253 26.2 19.5 29.3  
125 14.0 10.2 15.4



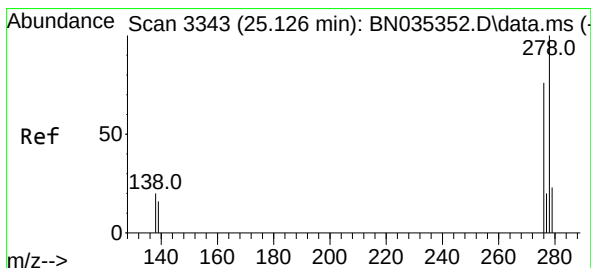
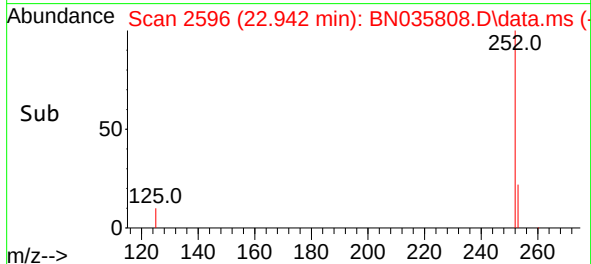
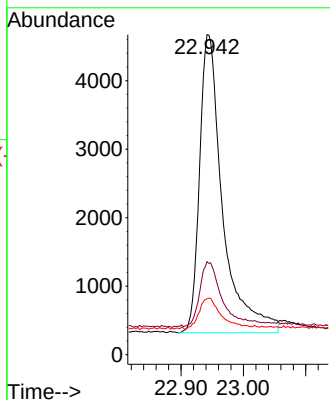


#39  
Benzo(a)pyrene  
Concen: 0.395 ng  
RT: 22.942 min Scan# 21  
Delta R.T. -0.009 min  
Lab File: BN035808.D  
Acq: 24 Dec 2024 06:34

Instrument :  
BNA\_N  
ClientSampleId :  
PB165667BS

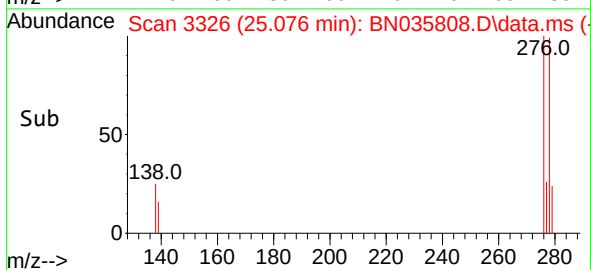
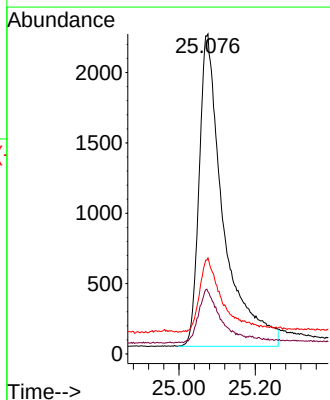
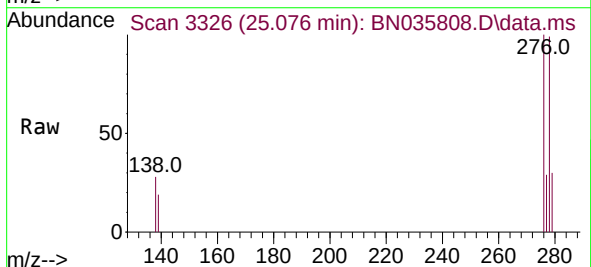


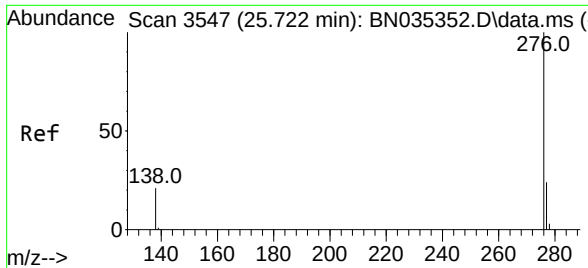
Tgt Ion:252 Resp: 11221  
Ion Ratio Lower Upper  
252 100  
253 29.1 20.2 30.4  
125 17.5 10.9 16.3#



#40  
Dibenzo(a,h)anthracene  
Concen: 0.336 ng  
RT: 25.076 min Scan# 3326  
Delta R.T. -0.006 min  
Lab File: BN035808.D  
Acq: 24 Dec 2024 06:34

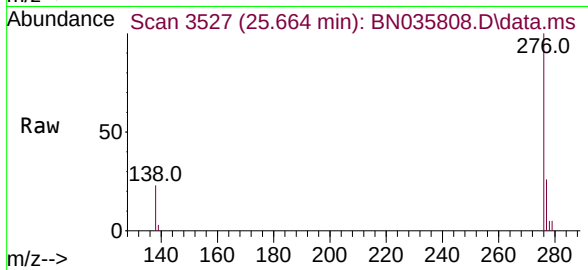
Tgt Ion:278 Resp: 9782  
Ion Ratio Lower Upper  
278 100  
139 19.5 14.2 21.4  
279 30.0 20.5 30.7



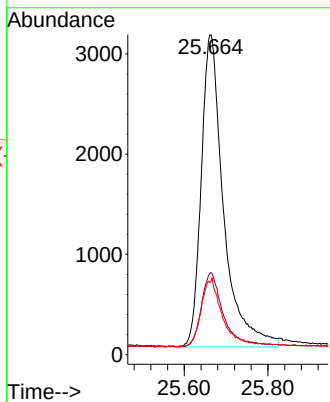
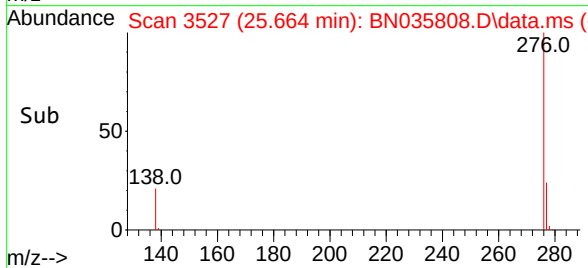


#41  
Benzo(g,h,i)perylene  
Concen: 0.380 ng  
RT: 25.664 min Scan# 31  
Delta R.T. -0.015 min  
Lab File: BN035808.D  
Acq: 24 Dec 2024 06:34

Instrument :  
BNA\_N  
ClientSampleId :  
PB165667BS



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 276   | Resp: | 11572 |
| Ion      | Ratio | Lower | Upper |
| 276      | 100   |       |       |
| 277      | 25.7  | 19.9  | 29.9  |
| 138      | 22.9  | 17.8  | 26.8  |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN122324\  
 Data File : BN035809.D  
 Acq On : 24 Dec 2024 07:09  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 93 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4EC

Quant Time: Dec 24 07:43:23 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Dec 19 23:06:19 2024  
 Response via : Initial Calibration

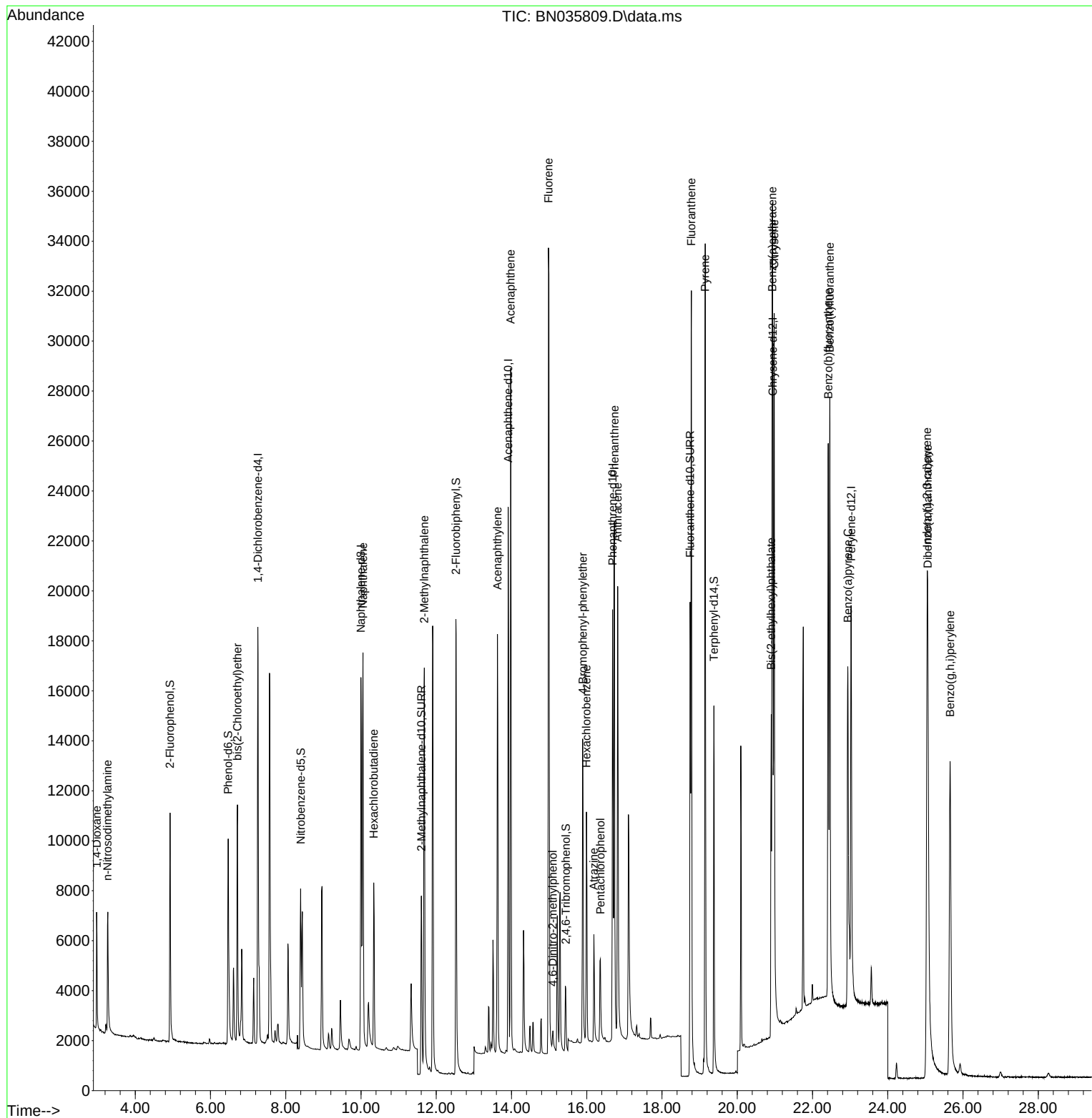
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.257  | 152  | 8362     | 0.400 | ng    | -0.01    |
| 7) Naphthalene-d8             | 9.999  | 136  | 20753    | 0.400 | ng    | #-0.02   |
| 13) Acenaphthene-d10          | 13.914 | 164  | 12456    | 0.400 | ng    | -0.02    |
| 19) Phenanthrene-d10          | 16.686 | 188  | 24922    | 0.400 | ng    | #-0.01   |
| 29) Chrysene-d12              | 20.947 | 240  | 20198    | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.026 | 264  | 21431    | 0.400 | ng    | -0.01    |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 4.924  | 112  | 7909     | 0.378 | ng    | -0.01    |
| 5) Phenol-d6                  | 6.470  | 99   | 9085     | 0.361 | ng    | -0.02    |
| 8) Nitrobenzene-d5            | 8.397  | 82   | 6477     | 0.511 | ng    | -0.01    |
| 11) 2-Methylnaphthalene-d10   | 11.605 | 152  | 11679    | 0.360 | ng    | -0.02    |
| 14) 2,4,6-Tribromophenol      | 15.443 | 330  | 2792     | 0.316 | ng    | -0.01    |
| 15) 2-Fluorobiphenyl          | 12.523 | 172  | 19125    | 0.406 | ng    | -0.02    |
| 27) Fluoranthene-d10          | 18.747 | 212  | 23606    | 0.334 | ng    | -0.01    |
| 31) Terphenyl-d14             | 19.379 | 244  | 16501    | 0.414 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
|                               |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 2.974  | 88   | 3198     | 0.400 | ng    | 100      |
| 3) n-Nitrosodimethylamine     | 3.263  | 42   | 2673     | 0.401 | ng    | # 88     |
| 6) bis(2-Chloroethyl)ether    | 6.716  | 93   | 7863     | 0.372 | ng    | 99       |
| 9) Naphthalene                | 10.052 | 128  | 21064    | 0.385 | ng    | 98       |
| 10) Hexachlorobutadiene       | 10.340 | 225  | 5424     | 0.430 | ng    | # 100    |
| 12) 2-Methylnaphthalene       | 11.682 | 142  | 13794    | 0.352 | ng    | 98       |
| 16) Acenaphthylene            | 13.625 | 152  | 19447    | 0.372 | ng    | 99       |
| 17) Acenaphthene              | 13.978 | 154  | 13250    | 0.382 | ng    | 99       |
| 18) Fluorene                  | 14.983 | 166  | 17299    | 0.348 | ng    | 99       |
| 20) 4,6-Dinitro-2-methylph... | 15.101 | 198  | 892      | 0.364 | ng    | 99       |
| 21) 4-Bromophenyl-phenylether | 15.892 | 248  | 5717     | 0.392 | ng    | # 72     |
| 22) Hexachlorobenzene         | 15.991 | 284  | 7638     | 0.446 | ng    | 97       |
| 23) Atrazine                  | 16.189 | 200  | 3955     | 0.381 | ng    | 99       |
| 24) Pentachlorophenol         | 16.363 | 266  | 2368     | 0.318 | ng    | # 86     |
| 25) Phenanthrene              | 16.736 | 178  | 25787    | 0.377 | ng    | 100      |
| 26) Anthracene                | 16.822 | 178  | 22279    | 0.360 | ng    | 99       |
| 28) Fluoranthene              | 18.780 | 202  | 31096    | 0.337 | ng    | 100      |
| 30) Pyrene                    | 19.147 | 202  | 32211    | 0.432 | ng    | 100      |
| 32) Benzo(a)anthracene        | 20.929 | 228  | 25428    | 0.360 | ng    | 99       |
| 33) Chrysene                  | 20.983 | 228  | 29722    | 0.408 | ng    | 98       |
| 34) Bis(2-ethylhexyl)phtha... | 20.902 | 149  | 11220    | 0.402 | ng    | 99       |
| 36) Indeno(1,2,3-cd)pyrene    | 25.047 | 276  | 32558    | 0.389 | ng    | 100      |
| 37) Benzo(b)fluoranthene      | 22.418 | 252  | 43862    | 0.559 | ng    | 98       |
| 38) Benzo(k)fluoranthene      | 22.459 | 252  | 32848    | 0.426 | ng    | 97       |
| 39) Benzo(a)pyrene            | 22.939 | 252  | 23952    | 0.371 | ng    | 100      |
| 40) Dibenzo(a,h)anthracene    | 25.064 | 278  | 24090    | 0.364 | ng    | 99       |
| 41) Benzo(g,h,i)perylene      | 25.658 | 276  | 28353    | 0.410 | ng    | 99       |
| -----                         |        |      |          |       |       |          |

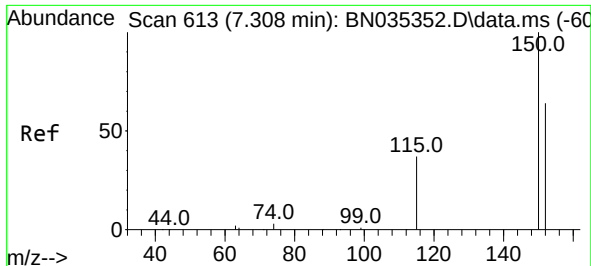
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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 Data File : BN035809.D  
 Acq On : 24 Dec 2024 07:09  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 93 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4EC

Quant Time: Dec 24 07:43:23 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Dec 19 23:06:19 2024  
 Response via : Initial Calibration

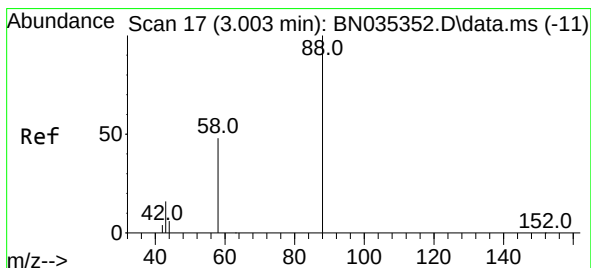
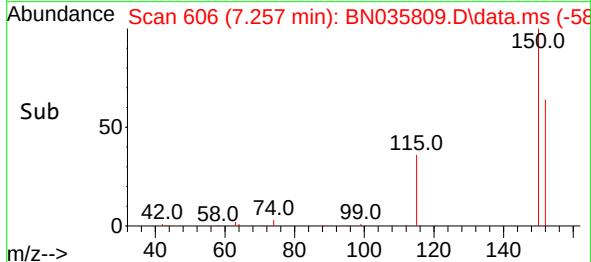
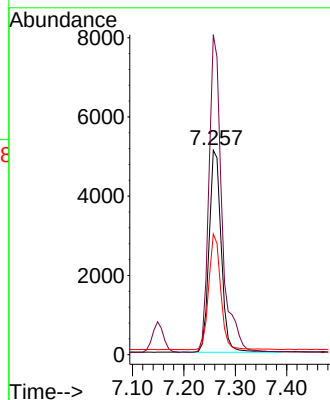
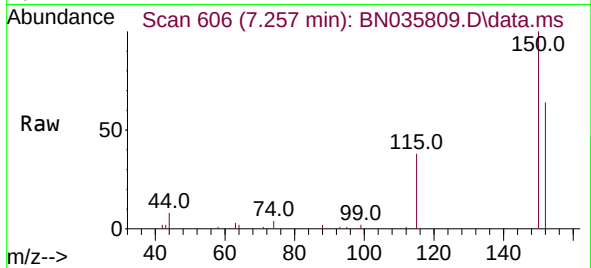




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 0.400 ng  
 RT: 7.257 min Scan# 60  
 Delta R.T. -0.015 min  
 Lab File: BN035809.D  
 Acq: 24 Dec 2024 07:09

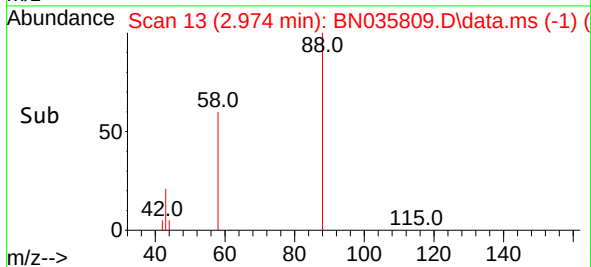
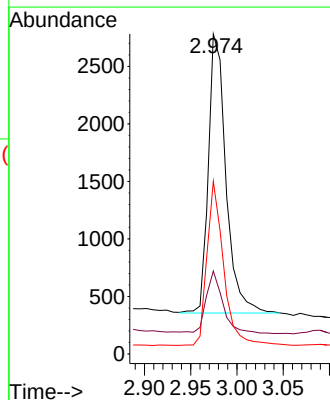
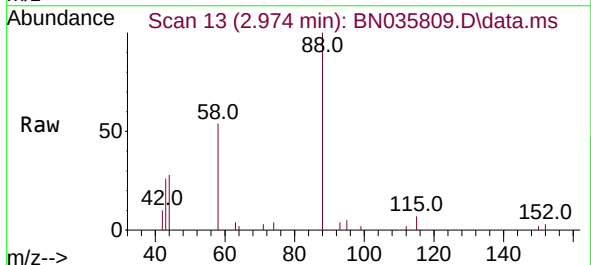
Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4EC

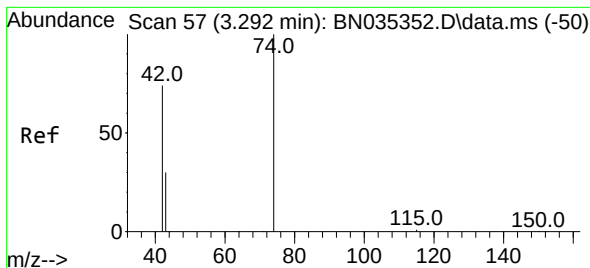
Tgt Ion:152 Resp: 8362  
 Ion Ratio Lower Upper  
 152 100  
 150 156.5 124.0 186.0  
 115 59.0 49.6 74.4



#2  
 1,4-Dioxane  
 Concen: 0.400 ng  
 RT: 2.974 min Scan# 13  
 Delta R.T. -0.007 min  
 Lab File: BN035809.D  
 Acq: 24 Dec 2024 07:09

Tgt Ion: 88 Resp: 3198  
 Ion Ratio Lower Upper  
 88 100  
 43 21.6 17.2 25.8  
 58 55.7 44.5 66.7





#3

n-Nitrosodimethylamine

Concen: 0.401 ng

RT: 3.263 min Scan# 51

Delta R.T. -0.015 min

Lab File: BN035809.D

Acq: 24 Dec 2024 07:09

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC

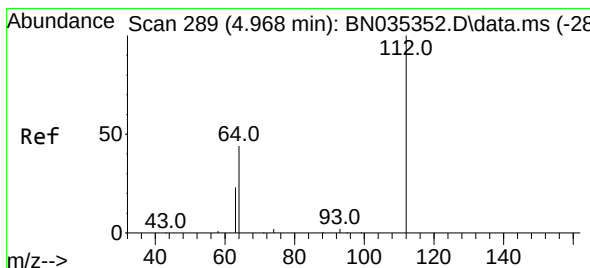
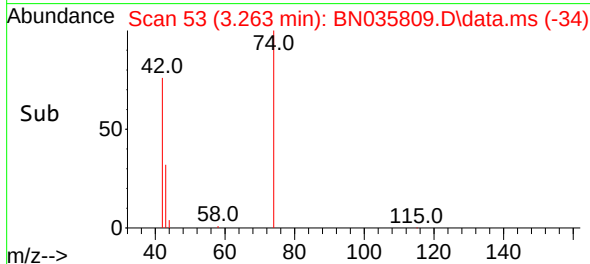
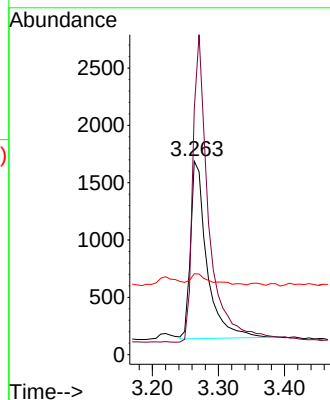
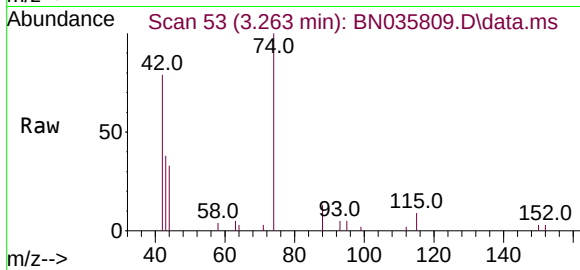
Tgt Ion: 42 Resp: 2673

Ion Ratio Lower Upper

42 100

74 172.2 124.9 187.3

44 9.1 2.2 3.4#



#4

2-Fluorophenol

Concen: 0.378 ng

RT: 4.924 min Scan# 283

Delta R.T. -0.015 min

Lab File: BN035809.D

Acq: 24 Dec 2024 07:09

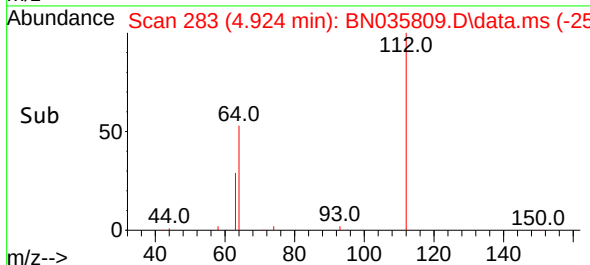
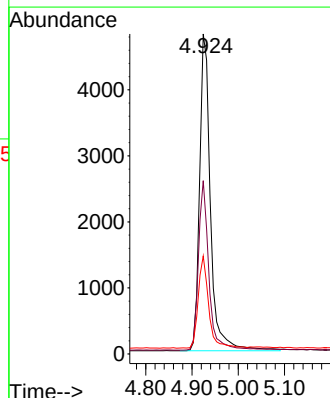
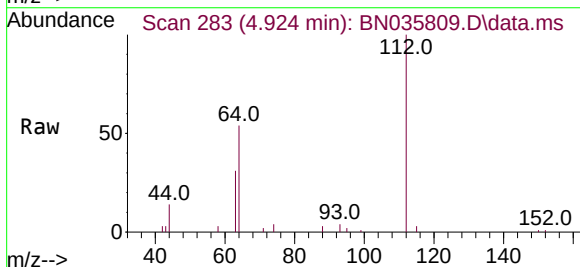
Tgt Ion: 112 Resp: 7909

Ion Ratio Lower Upper

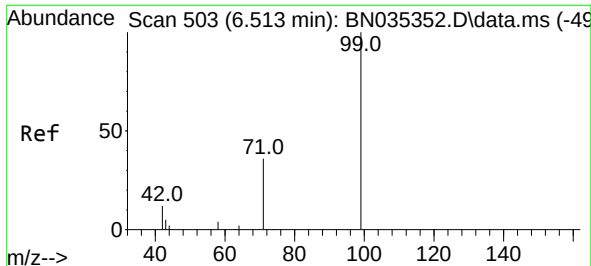
112 100

64 51.5 39.8 59.8

63 28.0 21.0 31.6



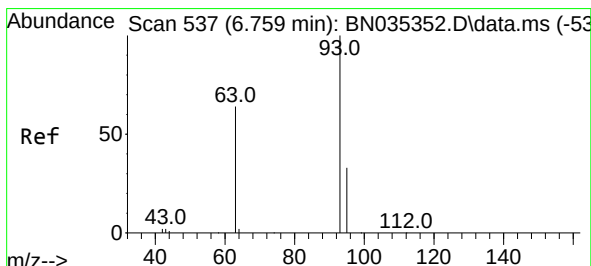
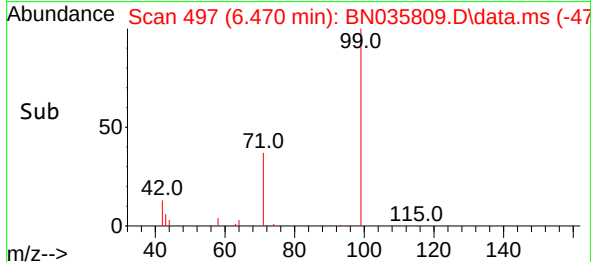
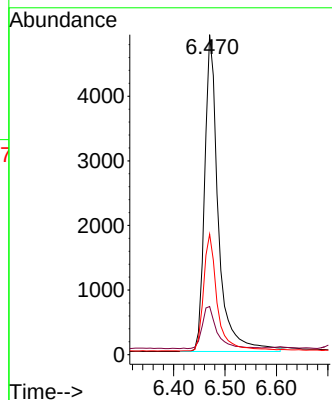
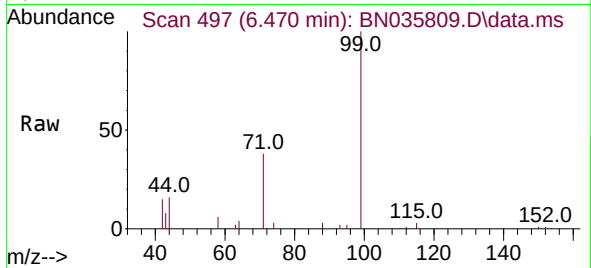




#5  
Phenol-d6  
Concen: 0.361 ng  
RT: 6.470 min Scan# 497  
Delta R.T. -0.022 min  
Lab File: BN035809.D  
Acq: 24 Dec 2024 07:09

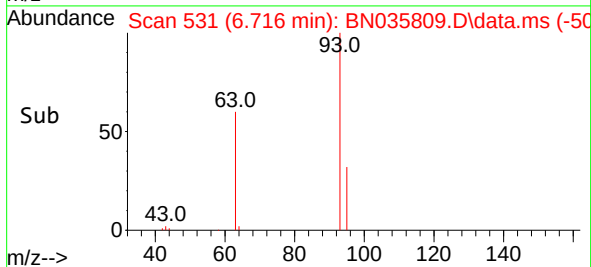
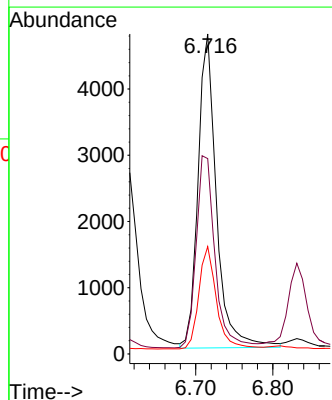
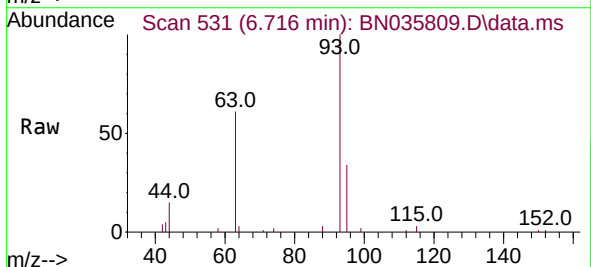
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

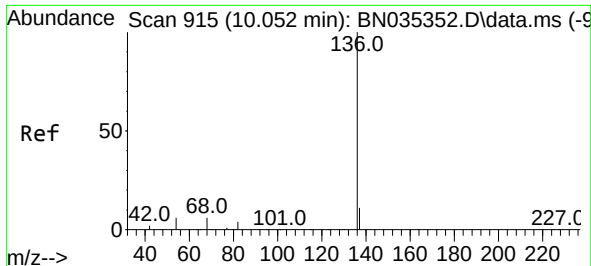
Tgt Ion: 99 Resp: 9085  
Ion Ratio Lower Upper  
99 100  
42 14.3 11.4 17.2  
71 37.3 29.3 43.9



#6  
bis(2-Chloroethyl)ether  
Concen: 0.372 ng  
RT: 6.716 min Scan# 531  
Delta R.T. -0.015 min  
Lab File: BN035809.D  
Acq: 24 Dec 2024 07:09

Tgt Ion: 93 Resp: 7863  
Ion Ratio Lower Upper  
93 100  
63 62.7 50.4 75.6  
95 31.6 25.7 38.5

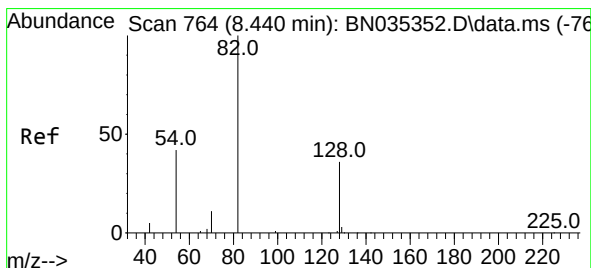
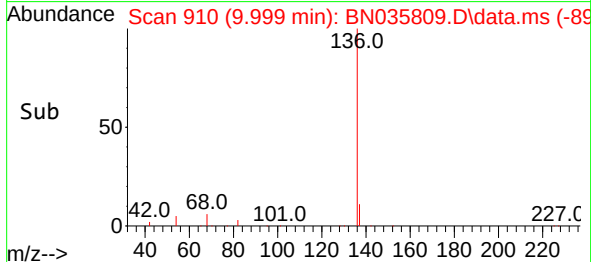
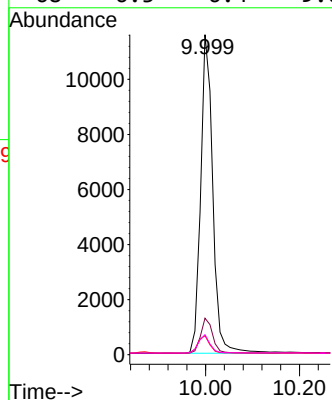
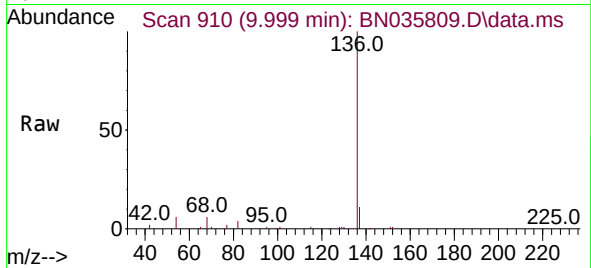




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 9.999 min Scan# 91  
Delta R.T. -0.021 min  
Lab File: BN035809.D  
Acq: 24 Dec 2024 07:09

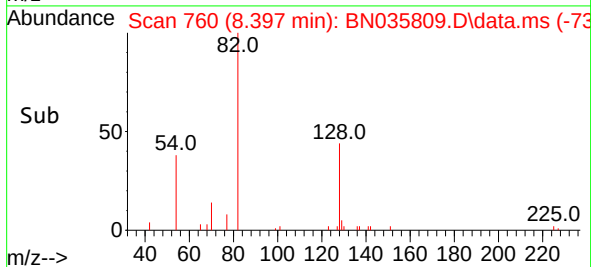
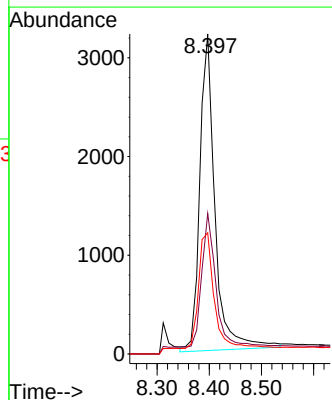
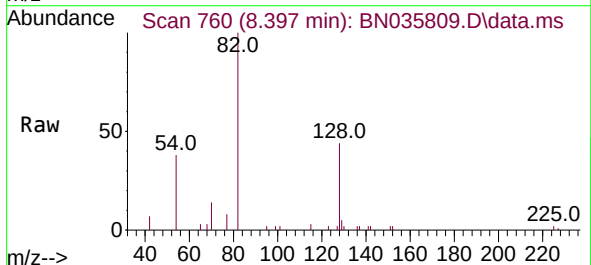
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

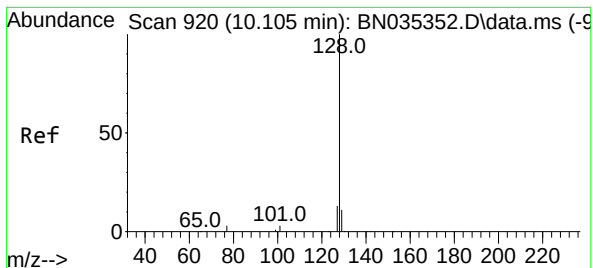
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 20753 |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 11.4  | 10.2  | 15.2  |
| 54       | 5.9   | 6.1   | 9.1#  |
| 68       | 6.3   | 6.4   | 9.6#  |



#8  
Nitrobenzene-d5  
Concen: 0.511 ng  
RT: 8.397 min Scan# 760  
Delta R.T. -0.011 min  
Lab File: BN035809.D  
Acq: 24 Dec 2024 07:09

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 6477  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 43.9  | 33.4  | 50.0  |
| 54       | 37.9  | 36.7  | 55.1  |





#9

Naphthalene

Concen: 0.385 ng

RT: 10.052 min Scan# 915

Delta R.T. -0.011 min

Lab File: BN035809.D

Acq: 24 Dec 2024 07:09

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC

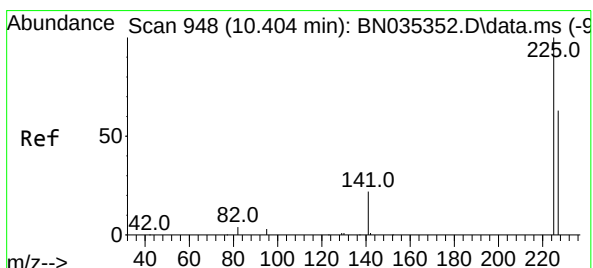
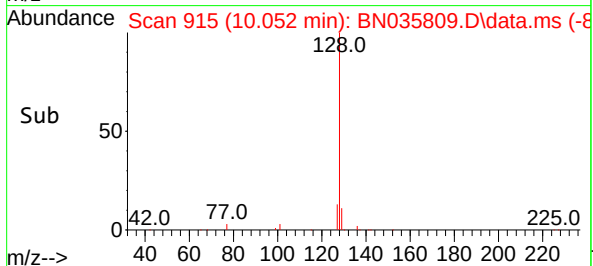
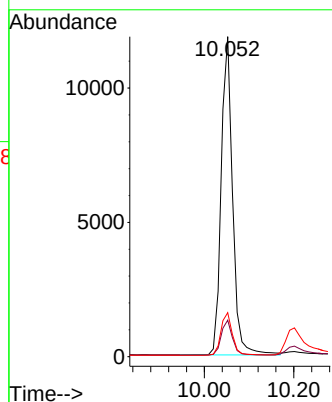
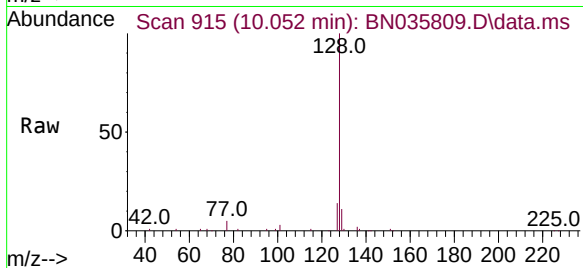
Tgt Ion:128 Resp: 21064

Ion Ratio Lower Upper

128 100

129 11.4 9.8 14.6

127 13.8 11.4 17.2



#10

Hexachlorobutadiene

Concen: 0.430 ng

RT: 10.340 min Scan# 942

Delta R.T. -0.021 min

Lab File: BN035809.D

Acq: 24 Dec 2024 07:09

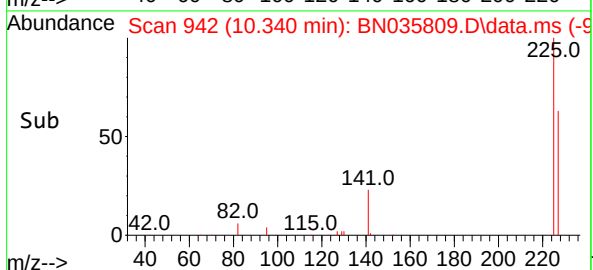
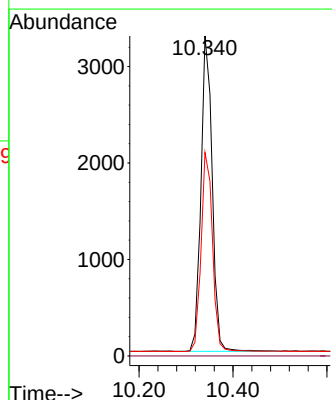
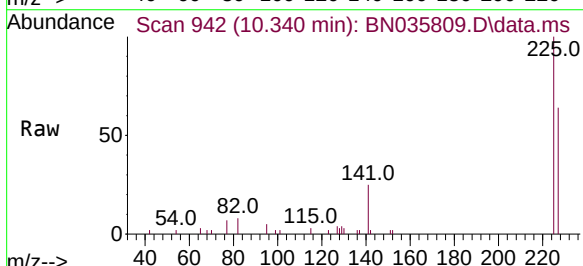
Tgt Ion:225 Resp: 5424

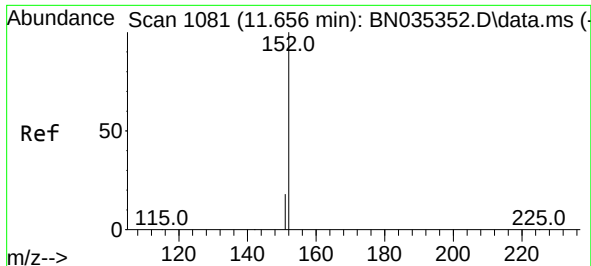
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 64.1 51.3 76.9

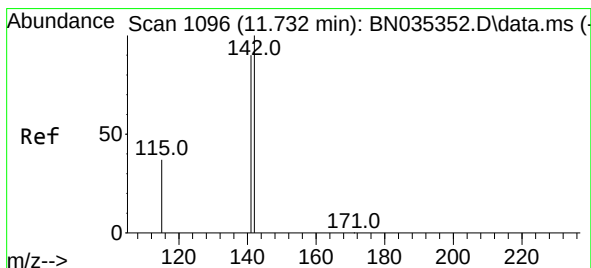
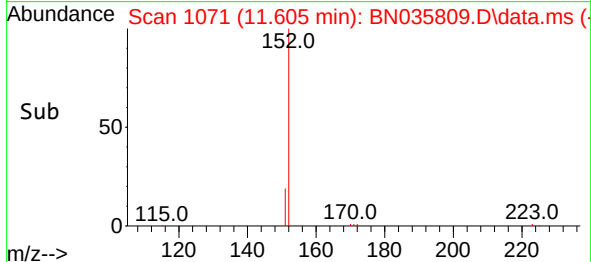
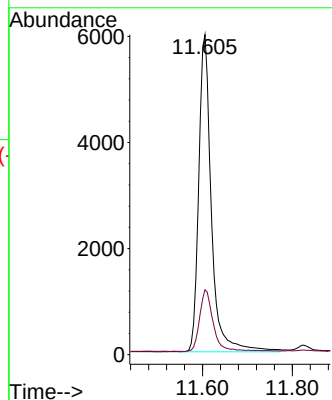
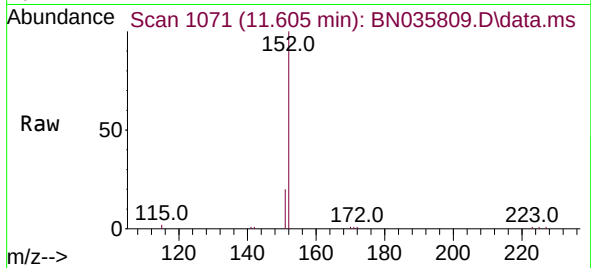




#11  
2-Methylnaphthalene-d10  
Concen: 0.360 ng  
RT: 11.605 min Scan# 1071  
Delta R.T. -0.015 min  
Lab File: BN035809.D  
Acq: 24 Dec 2024 07:09

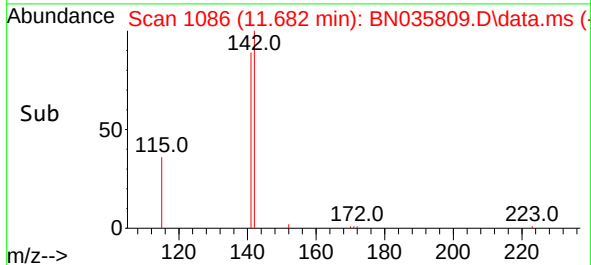
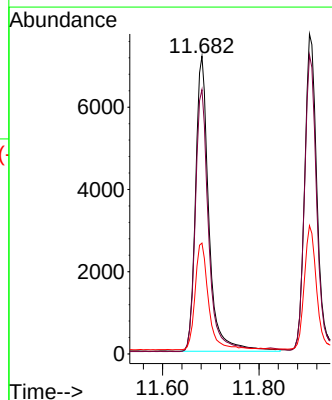
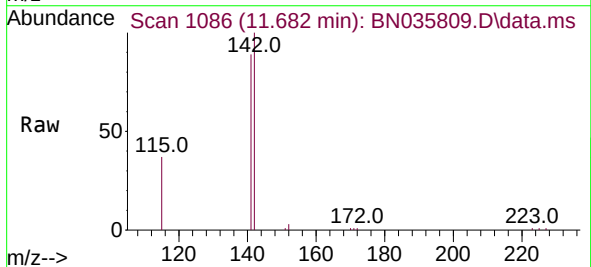
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

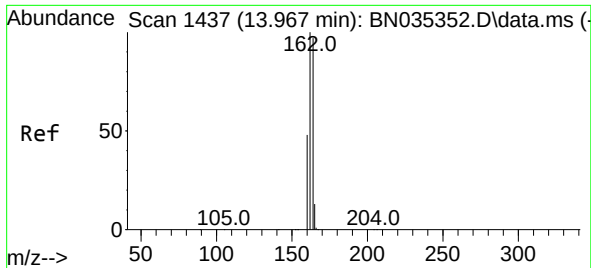
Tgt Ion:152 Resp: 11679  
Ion Ratio Lower Upper  
152 100  
151 20.8 16.6 25.0



#12  
2-Methylnaphthalene  
Concen: 0.352 ng  
RT: 11.682 min Scan# 1086  
Delta R.T. -0.015 min  
Lab File: BN035809.D  
Acq: 24 Dec 2024 07:09

Tgt Ion:142 Resp: 13794  
Ion Ratio Lower Upper  
142 100  
141 88.8 72.2 108.4  
115 37.2 31.4 47.0

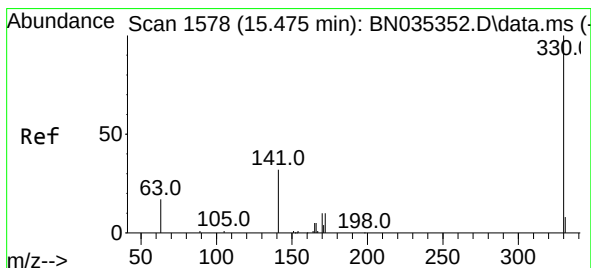
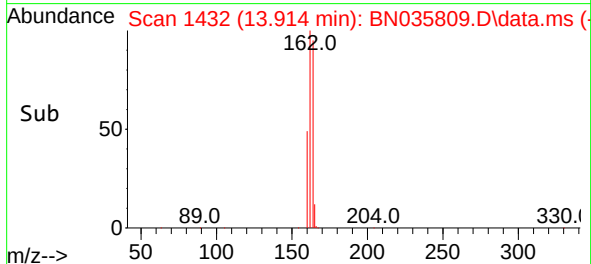
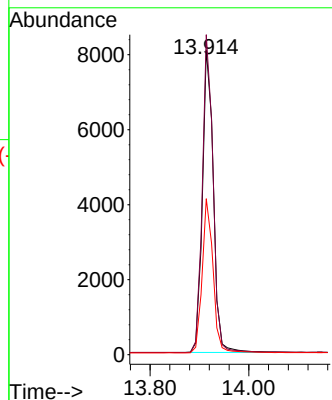
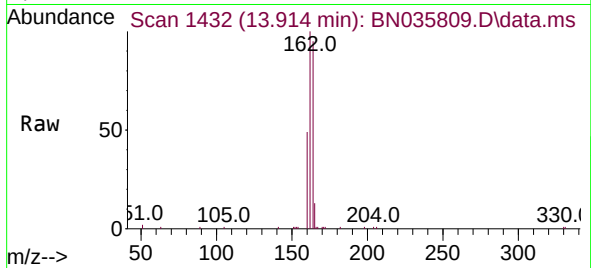




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.914 min Scan# 14  
Delta R.T. -0.021 min  
Lab File: BN035809.D  
Acq: 24 Dec 2024 07:09

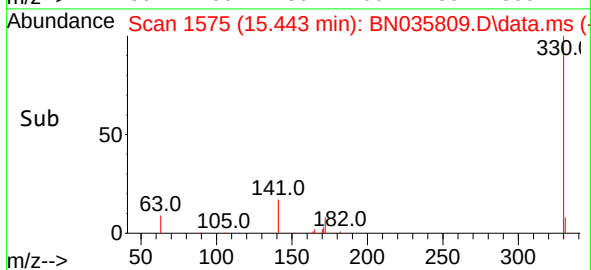
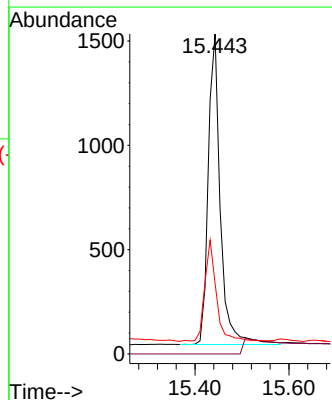
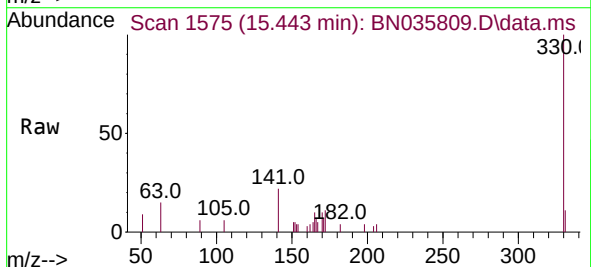
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

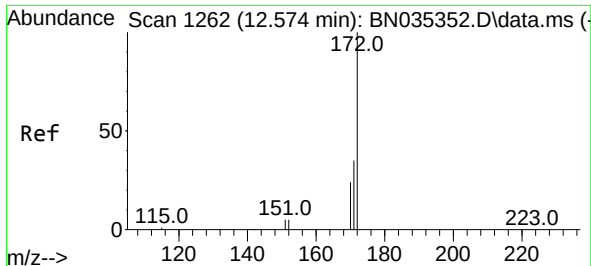
Tgt Ion:164 Resp: 12456  
Ion Ratio Lower Upper  
164 100  
162 104.9 82.2 123.2  
160 51.2 40.1 60.1



#14  
2,4,6-Tribromophenol  
Concen: 0.316 ng  
RT: 15.443 min Scan# 1575  
Delta R.T. -0.011 min  
Lab File: BN035809.D  
Acq: 24 Dec 2024 07:09

Tgt Ion:330 Resp: 2792  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 30.9 26.6 40.0

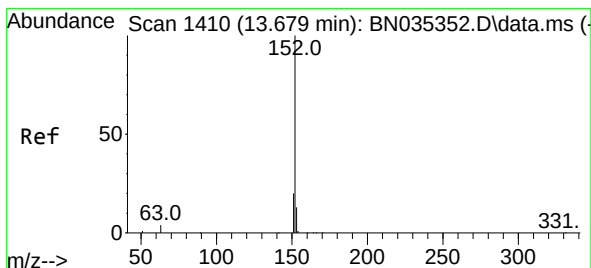
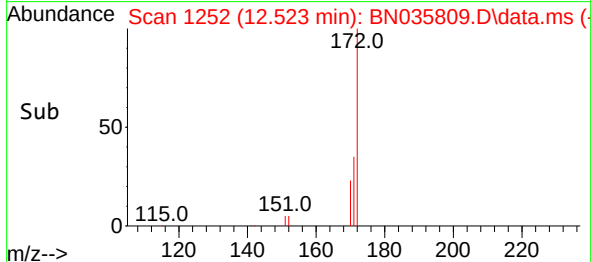
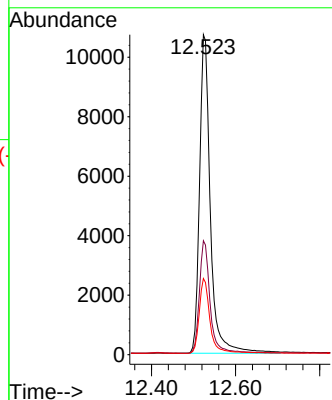
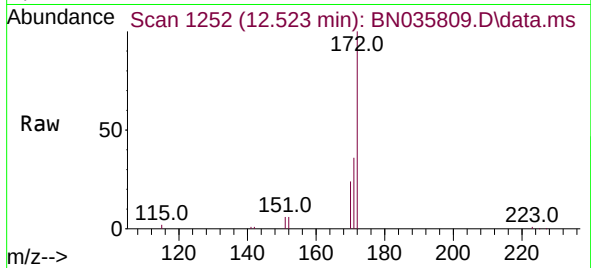




#15  
2-Fluorobiphenyl  
Concen: 0.406 ng  
RT: 12.523 min Scan# 11  
Delta R.T. -0.020 min  
Lab File: BN035809.D  
Acq: 24 Dec 2024 07:09

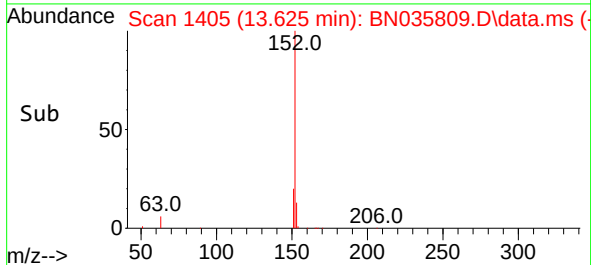
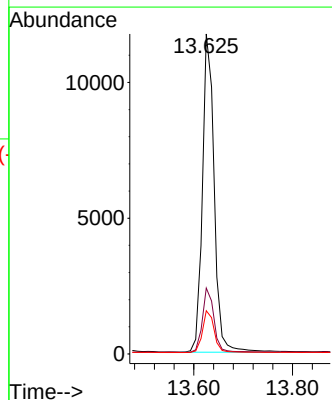
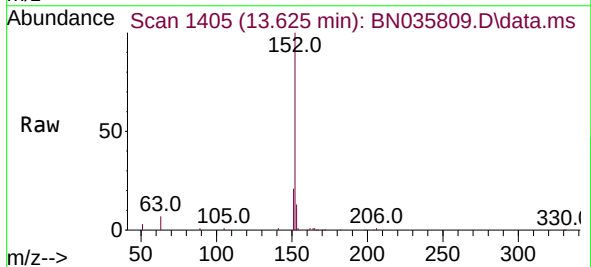
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

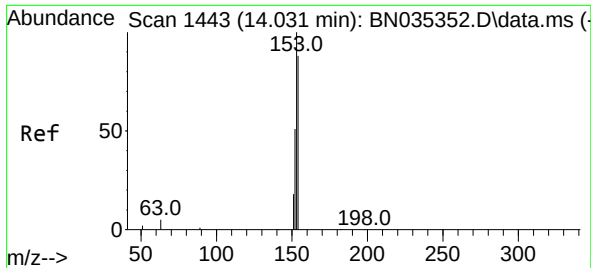
Tgt Ion:172 Resp: 19125  
Ion Ratio Lower Upper  
172 100  
171 35.6 29.0 43.4  
170 23.8 19.8 29.8



#16  
Acenaphthylene  
Concen: 0.372 ng  
RT: 13.625 min Scan# 1405  
Delta R.T. -0.021 min  
Lab File: BN035809.D  
Acq: 24 Dec 2024 07:09

Tgt Ion:152 Resp: 19447  
Ion Ratio Lower Upper  
152 100  
151 19.8 16.2 24.2  
153 13.1 10.4 15.6

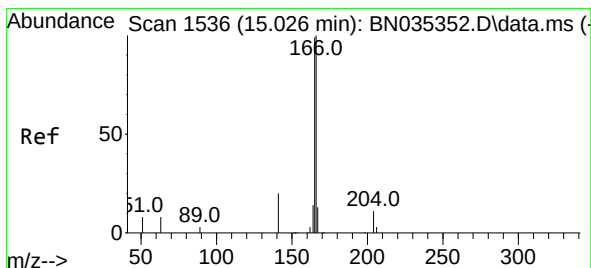
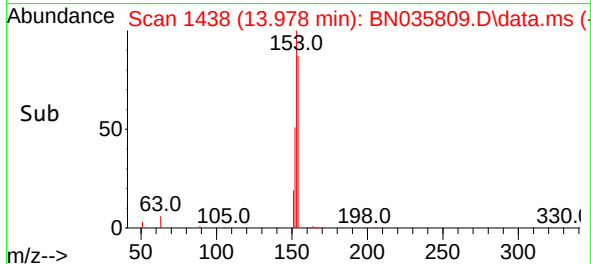
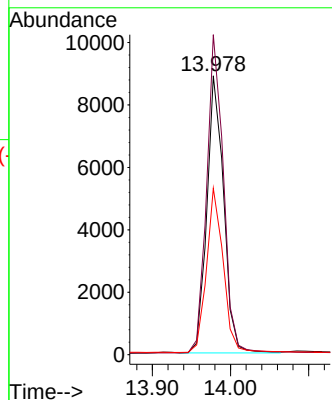
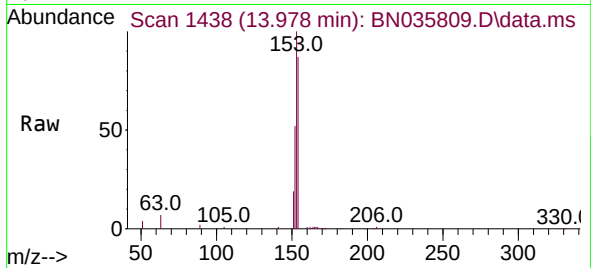




#17  
Acenaphthene  
Concen: 0.382 ng  
RT: 13.978 min Scan# 1443  
Delta R.T. -0.021 min  
Lab File: BN035809.D  
Acq: 24 Dec 2024 07:09

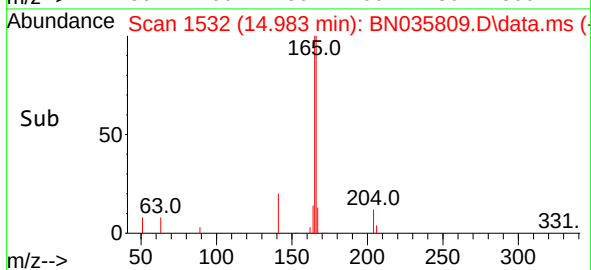
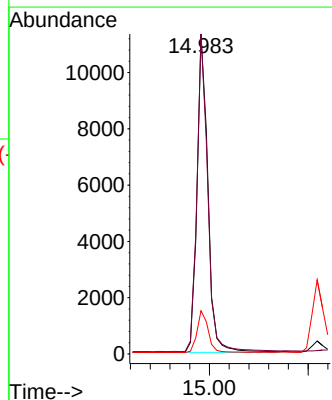
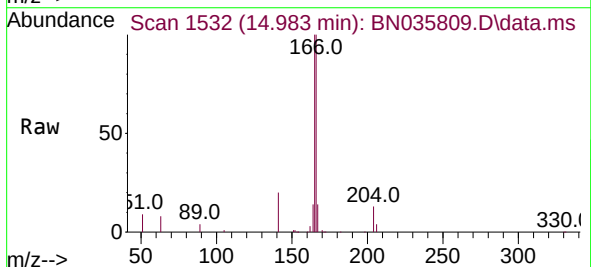
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

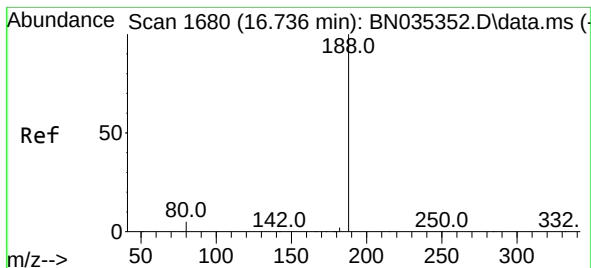
Tgt Ion:154 Resp: 13250  
Ion Ratio Lower Upper  
154 100  
153 115.4 92.6 139.0  
152 59.3 49.0 73.6



#18  
Fluorene  
Concen: 0.348 ng  
RT: 14.983 min Scan# 1532  
Delta R.T. -0.021 min  
Lab File: BN035809.D  
Acq: 24 Dec 2024 07:09

Tgt Ion:166 Resp: 17299  
Ion Ratio Lower Upper  
166 100  
165 98.8 79.7 119.5  
167 13.4 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.686 min Scan# 1

Delta R.T. -0.012 min

Lab File: BN035809.D

Acq: 24 Dec 2024 07:09

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC

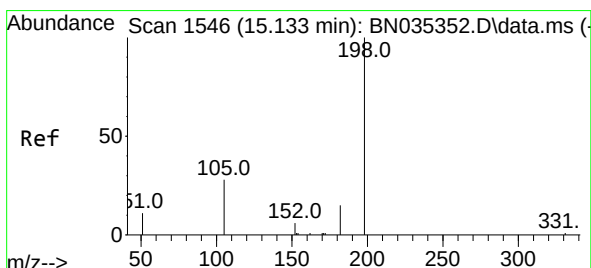
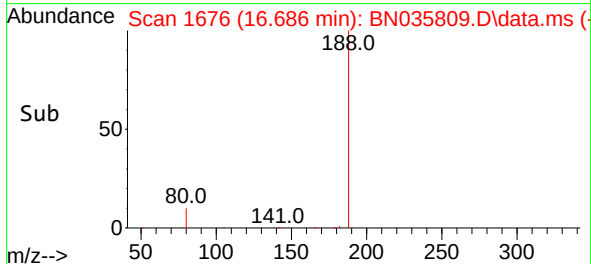
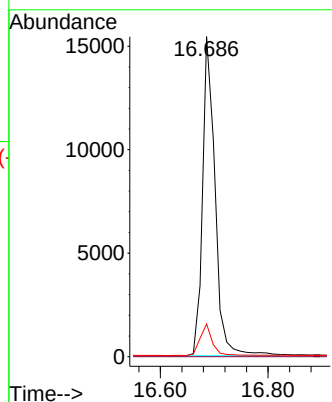
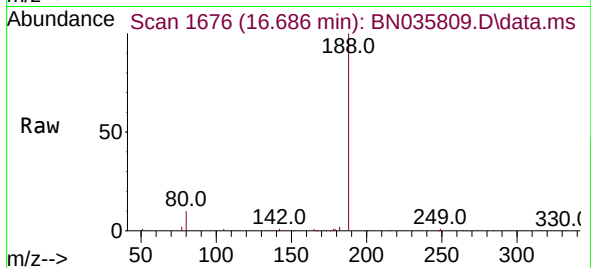
Tgt Ion:188 Resp: 24922

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.2 4.6 6.8#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.364 ng

RT: 15.101 min Scan# 1543

Delta R.T. -0.021 min

Lab File: BN035809.D

Acq: 24 Dec 2024 07:09

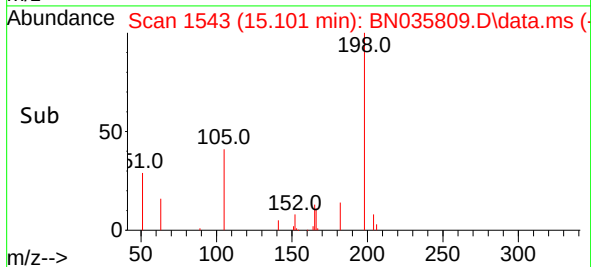
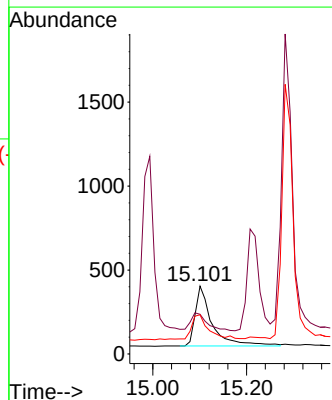
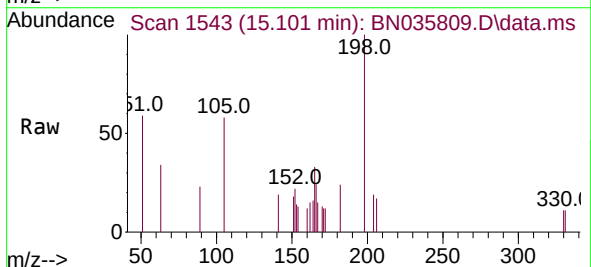
Tgt Ion:198 Resp: 892

Ion Ratio Lower Upper

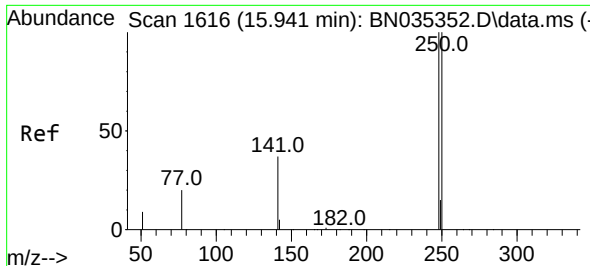
198 100

51 58.7 46.5 69.7

105 57.9 45.3 67.9



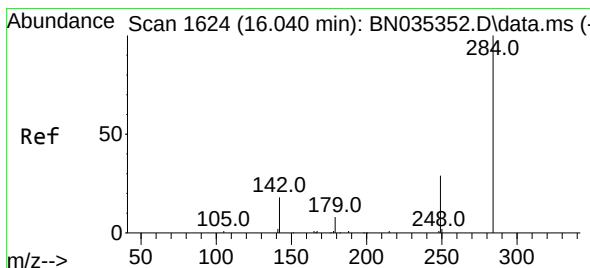
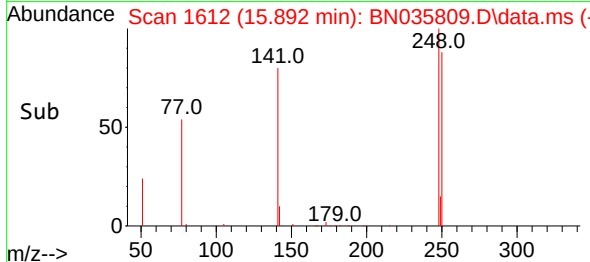
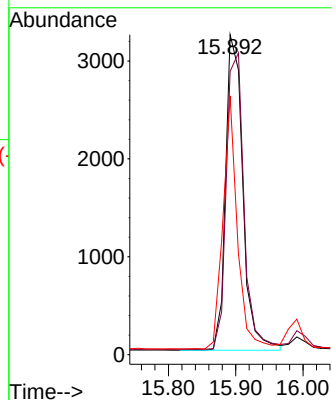
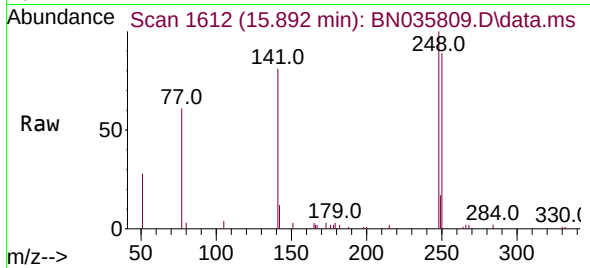




#21  
4-Bromophenyl-phenylether  
Concen: 0.392 ng  
RT: 15.892 min Scan# 1612  
Delta R.T. -0.025 min  
Lab File: BN035809.D  
Acq: 24 Dec 2024 07:09

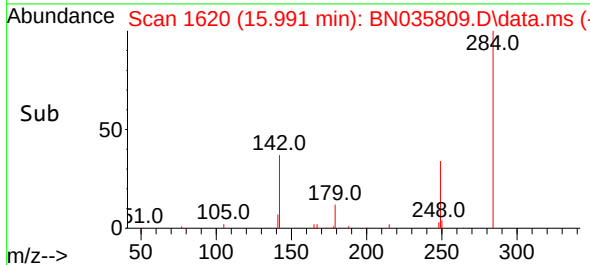
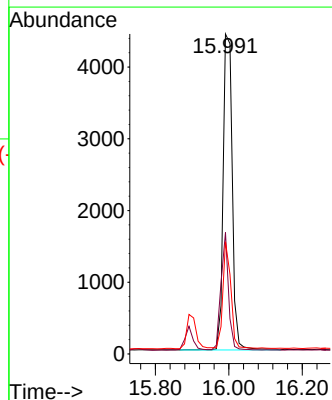
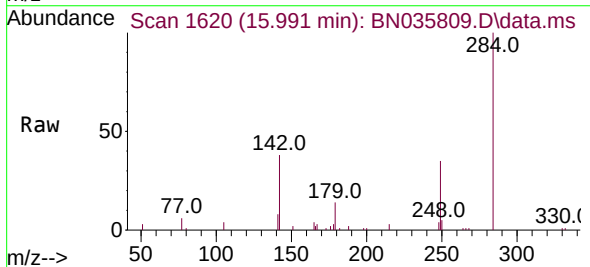
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

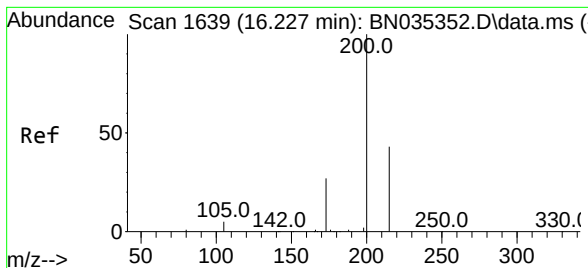
Tgt Ion:248 Resp: 5717  
Ion Ratio Lower Upper  
248 100  
250 88.5 80.6 120.8  
141 80.9 31.5 47.3#



#22  
Hexachlorobenzene  
Concen: 0.446 ng  
RT: 15.991 min Scan# 1620  
Delta R.T. -0.025 min  
Lab File: BN035809.D  
Acq: 24 Dec 2024 07:09

Tgt Ion:284 Resp: 7638  
Ion Ratio Lower Upper  
284 100  
142 31.3 26.7 40.1  
249 29.6 24.6 36.8





#23

Atrazine

Concen: 0.381 ng

RT: 16.189 min Scan# 1

Delta R.T. -0.012 min

Lab File: BN035809.D

Acq: 24 Dec 2024 07:09

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC

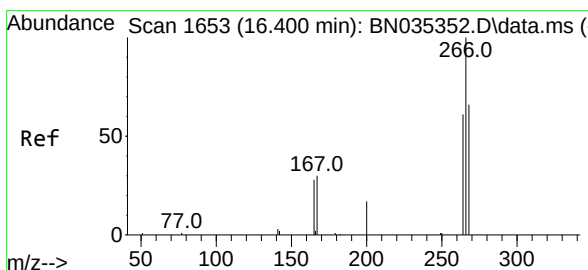
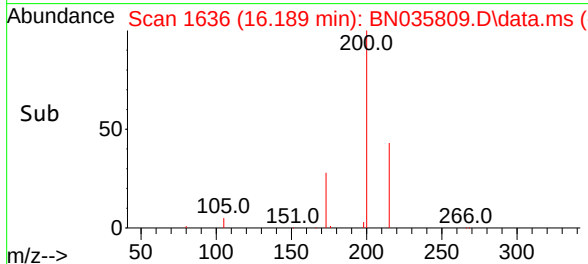
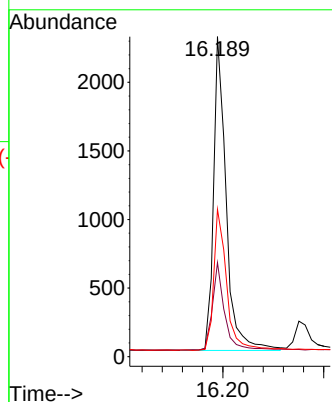
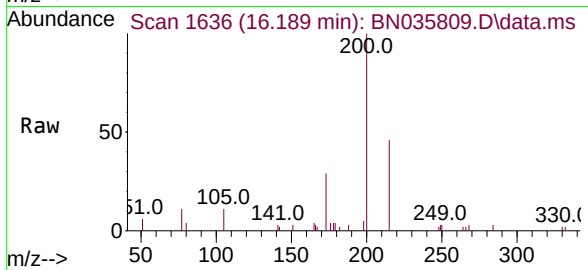
Tgt Ion:200 Resp: 3955

Ion Ratio Lower Upper

200 100

173 29.4 24.1 36.1

215 46.0 36.9 55.3



#24

Pentachlorophenol

Concen: 0.318 ng

RT: 16.363 min Scan# 1650

Delta R.T. -0.012 min

Lab File: BN035809.D

Acq: 24 Dec 2024 07:09

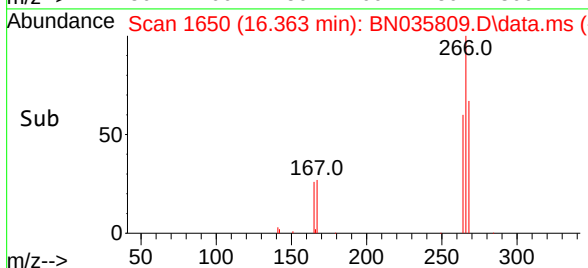
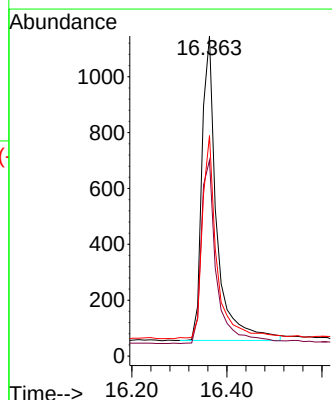
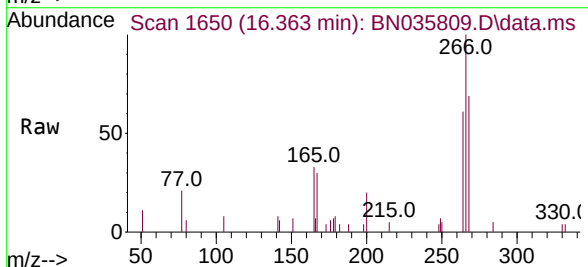
Tgt Ion:266 Resp: 2368

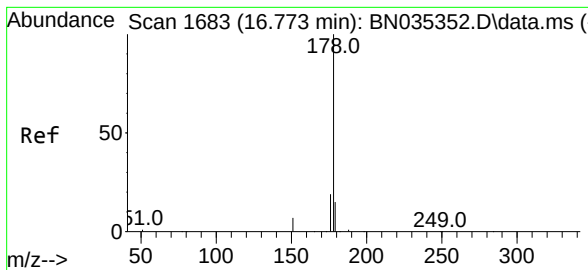
Ion Ratio Lower Upper

266 100

264 62.2 42.3 63.5

268 65.5 43.3 64.9#

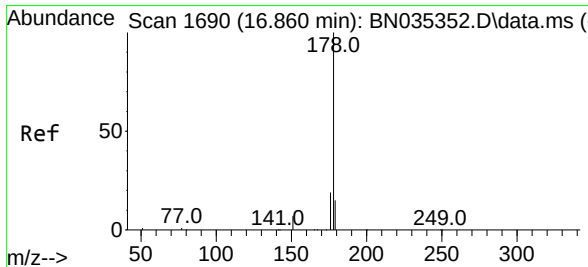
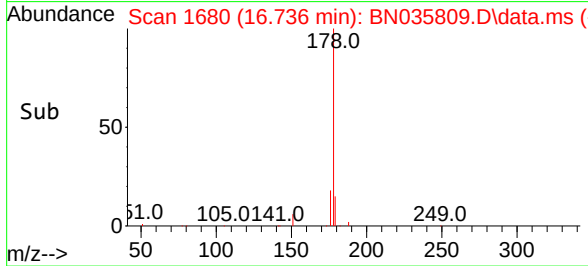
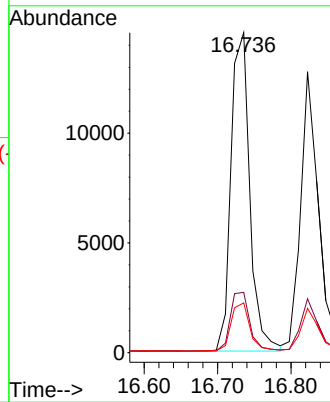
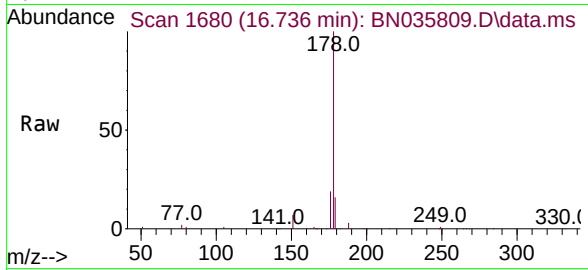




#25  
Phenanthrene  
Concen: 0.377 ng  
RT: 16.736 min Scan# 1680  
Delta R.T. -0.012 min  
Lab File: BN035809.D  
Acq: 24 Dec 2024 07:09

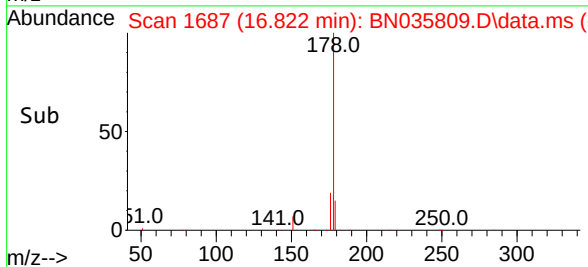
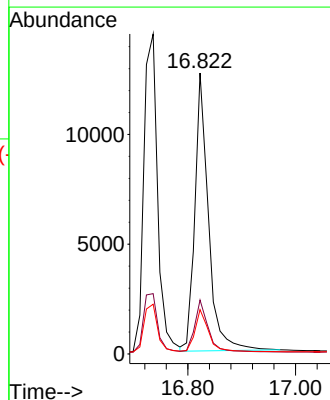
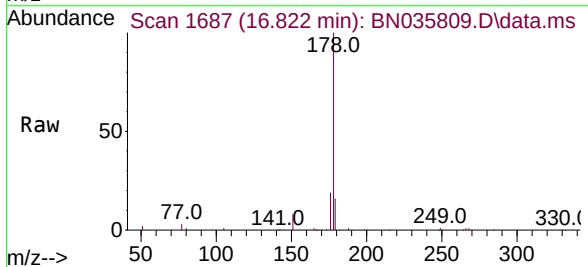
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

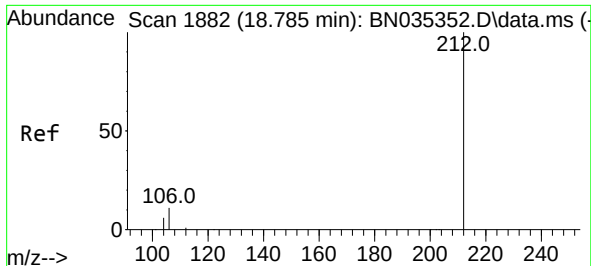
Tgt Ion:178 Resp: 25787  
Ion Ratio Lower Upper  
178 100  
176 19.2 15.4 23.2  
179 15.2 12.3 18.5



#26  
Anthracene  
Concen: 0.360 ng  
RT: 16.822 min Scan# 1687  
Delta R.T. -0.012 min  
Lab File: BN035809.D  
Acq: 24 Dec 2024 07:09

Tgt Ion:178 Resp: 22279  
Ion Ratio Lower Upper  
178 100  
176 18.5 15.0 22.6  
179 15.4 12.6 18.8

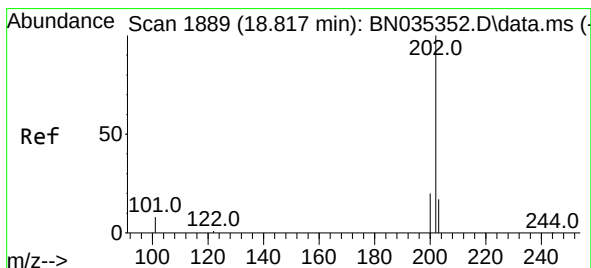
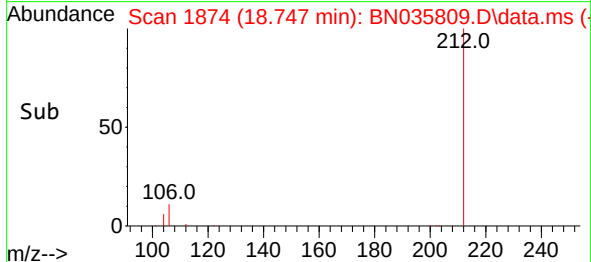
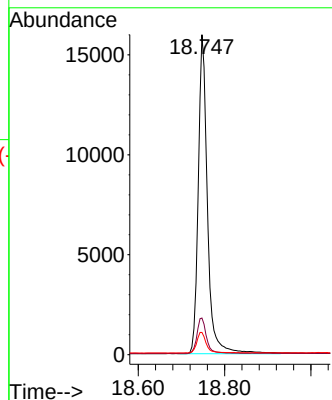
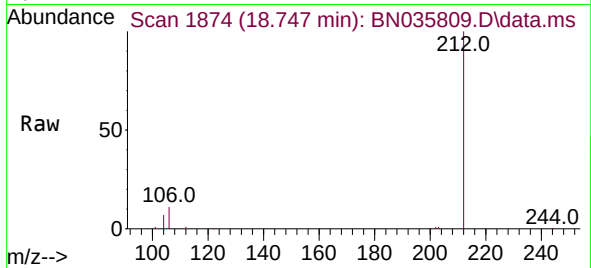




#27  
Fluoranthene-d10  
Concen: 0.334 ng  
RT: 18.747 min Scan# 1874  
Delta R.T. -0.014 min  
Lab File: BN035809.D  
Acq: 24 Dec 2024 07:09

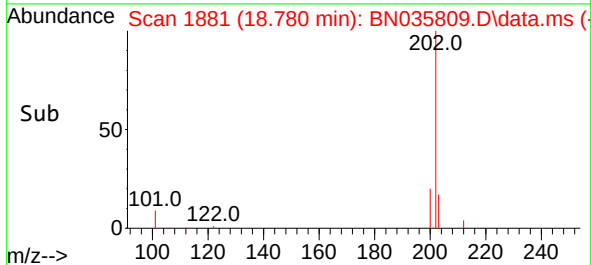
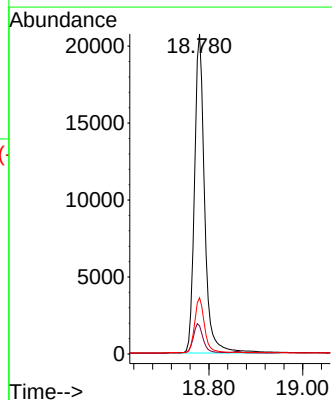
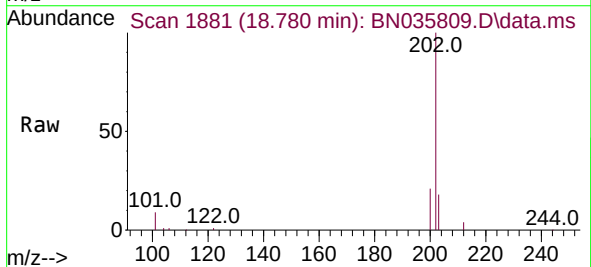
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

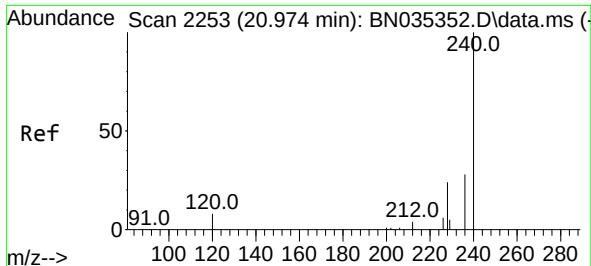
Tgt Ion:212 Resp: 23606  
Ion Ratio Lower Upper  
212 100  
106 11.5 9.2 13.8  
104 6.6 5.3 7.9



#28  
Fluoranthene  
Concen: 0.337 ng  
RT: 18.780 min Scan# 1881  
Delta R.T. -0.009 min  
Lab File: BN035809.D  
Acq: 24 Dec 2024 07:09

Tgt Ion:202 Resp: 31096  
Ion Ratio Lower Upper  
202 100  
101 9.3 7.4 11.0  
203 16.9 13.7 20.5

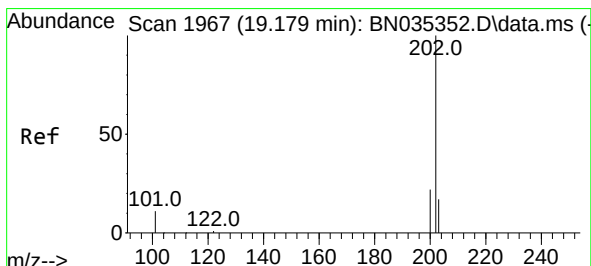
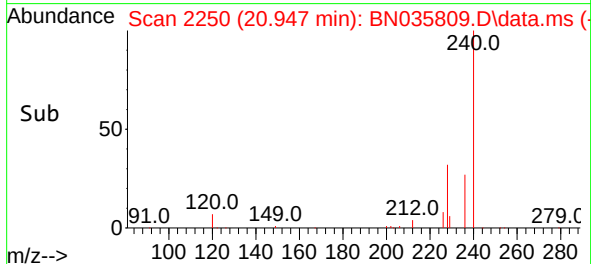
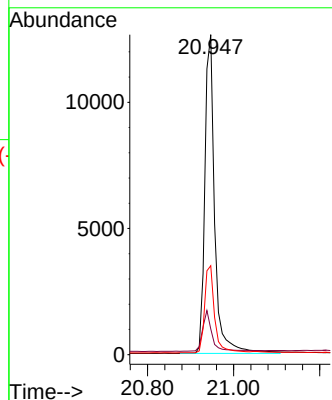
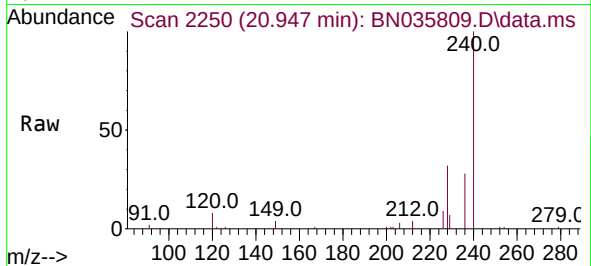




#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 20.947 min Scan# 21  
Delta R.T. -0.009 min  
Lab File: BN035809.D  
Acq: 24 Dec 2024 07:09

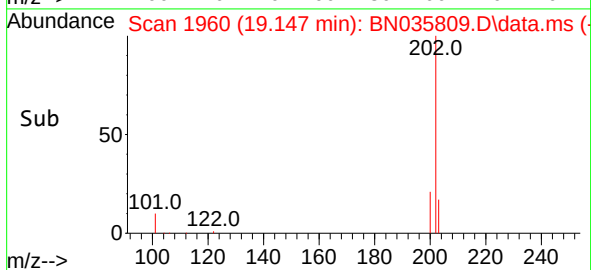
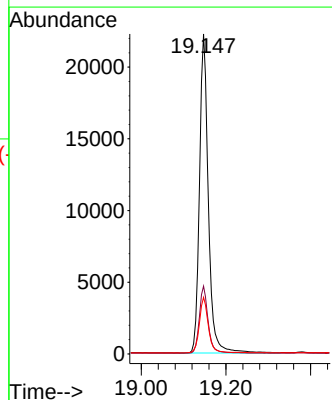
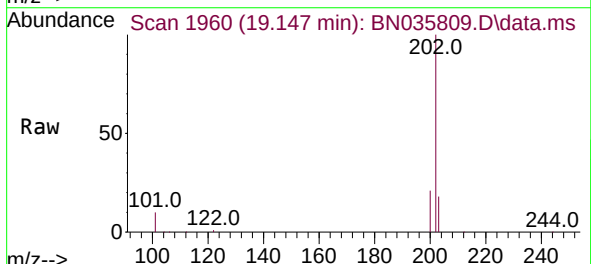
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

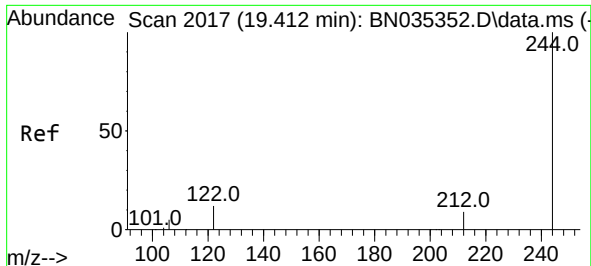
Tgt Ion:240 Resp: 20198  
Ion Ratio Lower Upper  
240 100  
120 8.0 7.9 11.9  
236 27.8 22.9 34.3



#30  
Pyrene  
Concen: 0.432 ng  
RT: 19.147 min Scan# 1960  
Delta R.T. -0.014 min  
Lab File: BN035809.D  
Acq: 24 Dec 2024 07:09

Tgt Ion:202 Resp: 32211  
Ion Ratio Lower Upper  
202 100  
200 21.0 17.0 25.4  
203 17.8 14.3 21.5

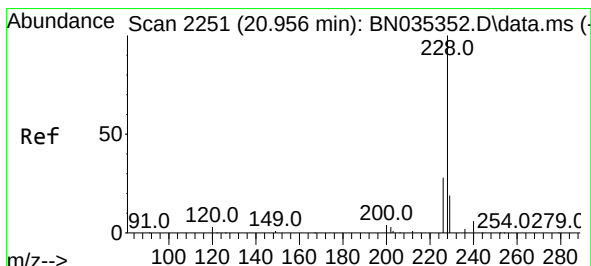
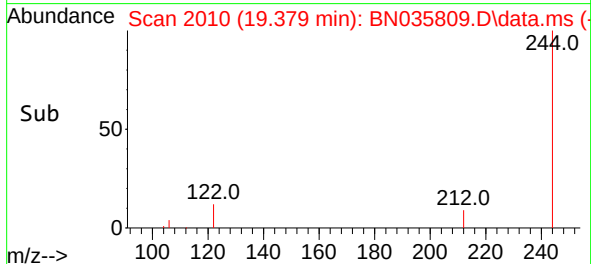
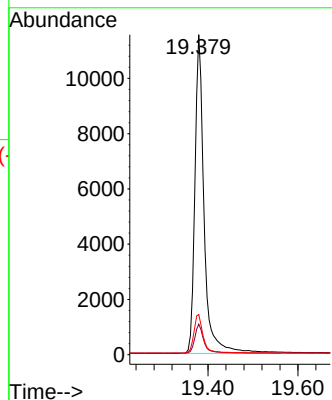
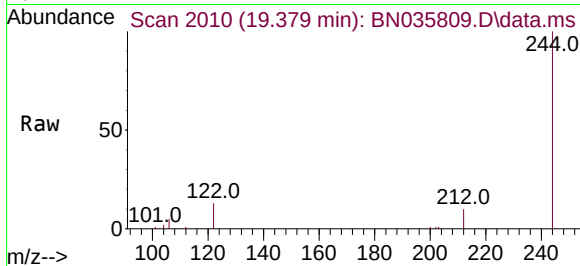




#31  
 Terphenyl-d14  
 Concen: 0.414 ng  
 RT: 19.379 min Scan# 20  
 Delta R.T. -0.009 min  
 Lab File: BN035809.D  
 Acq: 24 Dec 2024 07:09

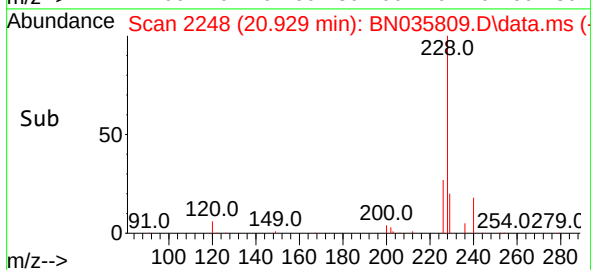
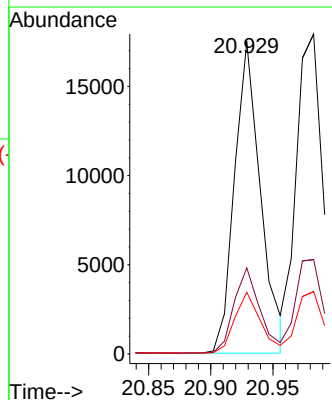
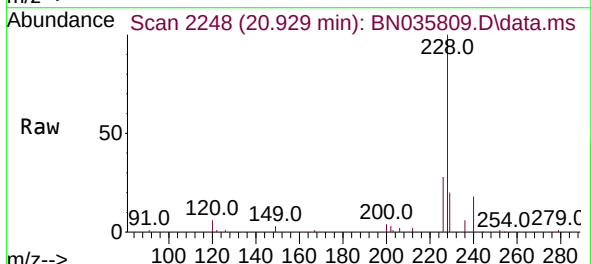
Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4EC

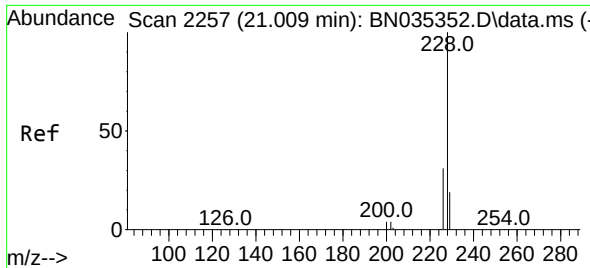
Tgt Ion:244 Resp: 16501  
 Ion Ratio Lower Upper  
 244 100  
 212 9.5 8.1 12.1  
 122 12.5 10.3 15.5



#32  
 Benzo(a)anthracene  
 Concen: 0.360 ng  
 RT: 20.929 min Scan# 2248  
 Delta R.T. -0.009 min  
 Lab File: BN035809.D  
 Acq: 24 Dec 2024 07:09

Tgt Ion:228 Resp: 25428  
 Ion Ratio Lower Upper  
 228 100  
 226 27.5 22.5 33.7  
 229 19.8 15.8 23.8





#33

Chrysene

Concen: 0.408 ng

RT: 20.983 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035809.D

Acq: 24 Dec 2024 07:09

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC

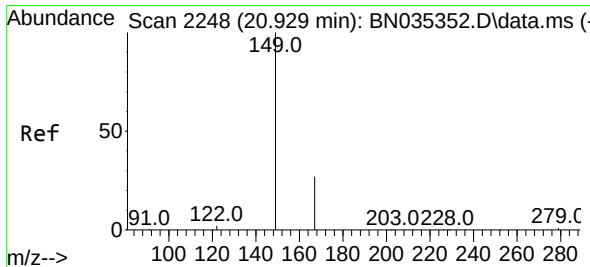
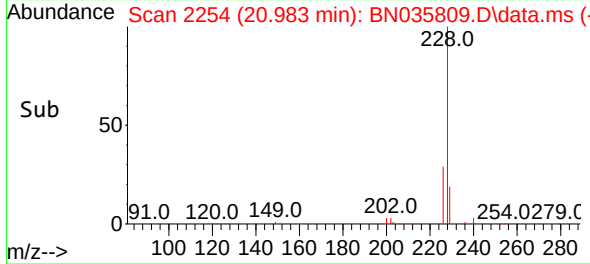
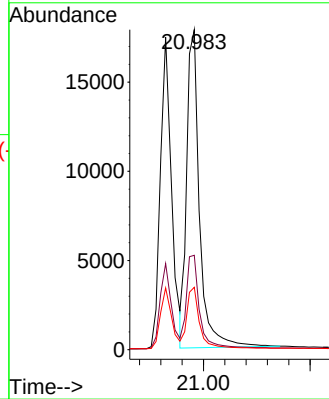
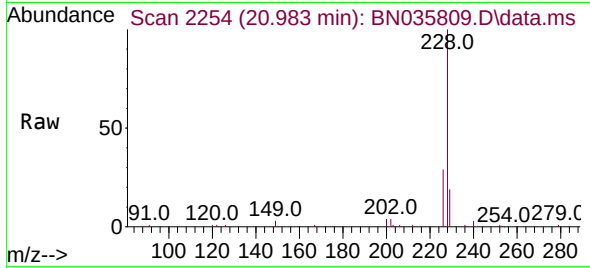
Tgt Ion:228 Resp: 29722

Ion Ratio Lower Upper

228 100

226 29.5 24.6 37.0

229 19.5 15.9 23.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.402 ng

RT: 20.902 min Scan# 2245

Delta R.T. -0.009 min

Lab File: BN035809.D

Acq: 24 Dec 2024 07:09

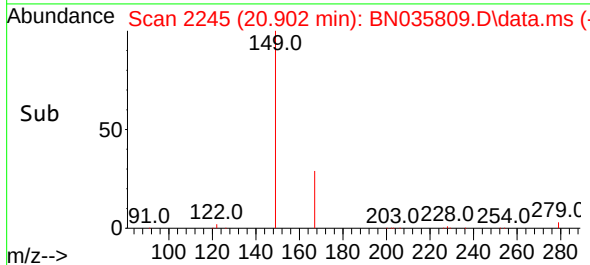
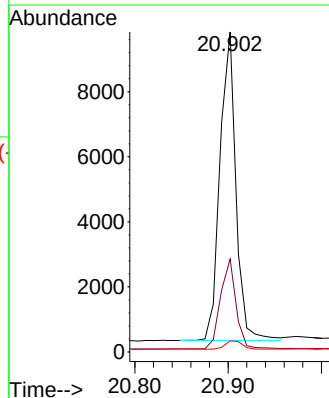
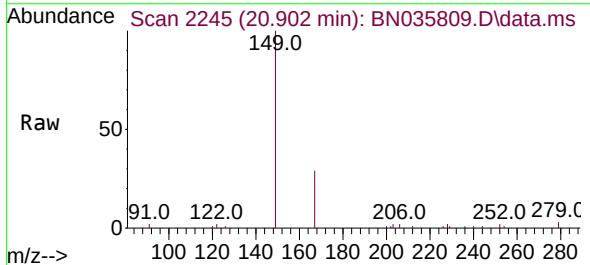
Tgt Ion:149 Resp: 11220

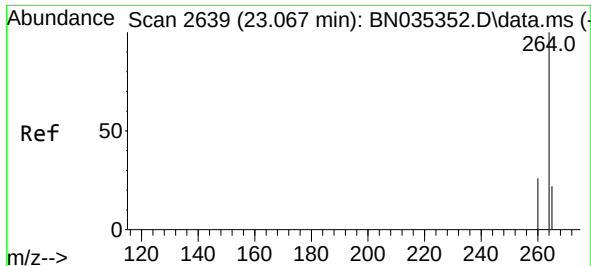
Ion Ratio Lower Upper

149 100

167 28.4 22.2 33.4

279 2.9 2.7 4.1

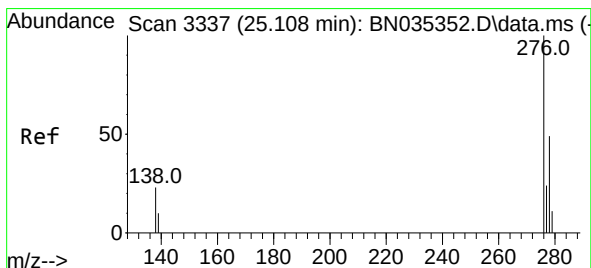
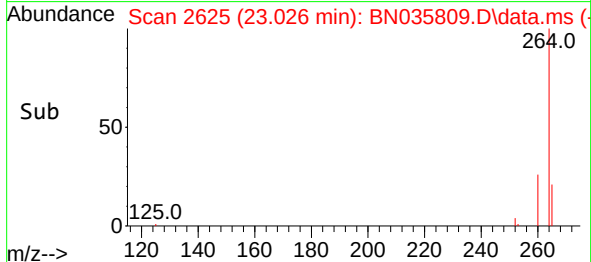
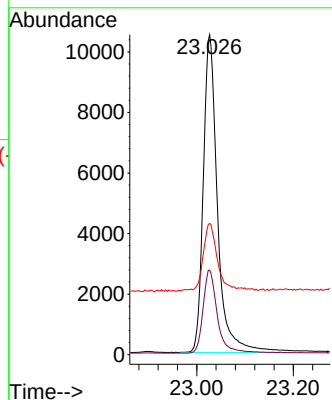
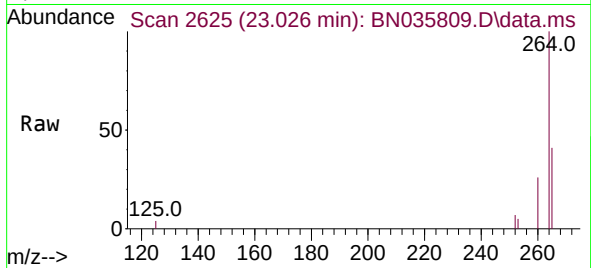




#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.026 min Scan# 21431  
Delta R.T. -0.015 min  
Lab File: BN035809.D  
Acq: 24 Dec 2024 07:09

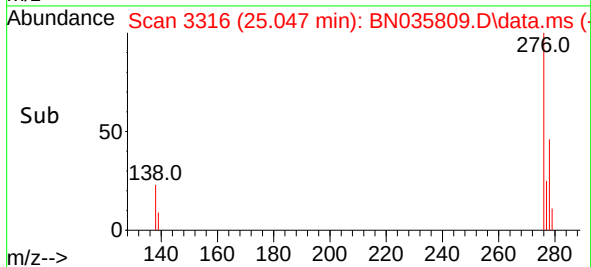
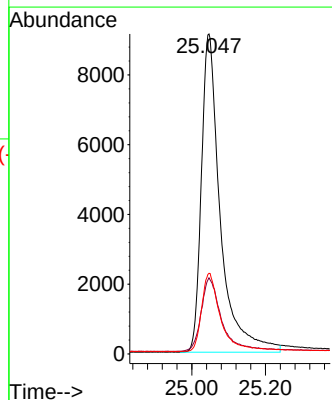
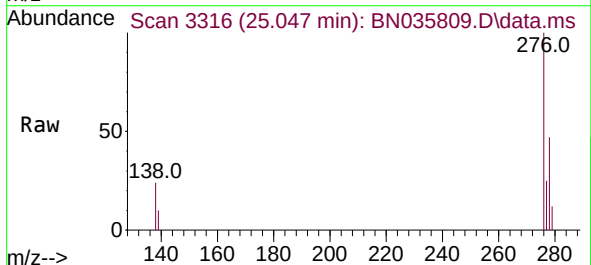
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 264   | Resp: | 21431 |
| Ion Ratio | Lower | Upper |       |
| 264       | 100   |       |       |
| 260       | 26.4  | 21.4  | 32.2  |
| 265       | 41.0  | 40.2  | 60.4  |

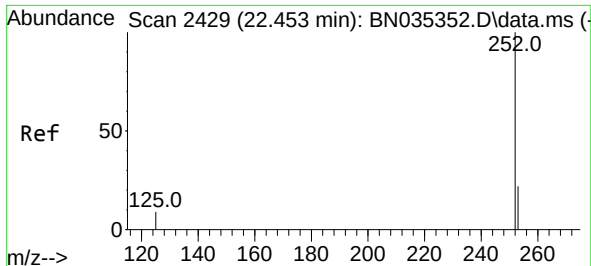


#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.389 ng  
RT: 25.047 min Scan# 3316  
Delta R.T. -0.021 min  
Lab File: BN035809.D  
Acq: 24 Dec 2024 07:09

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 32558 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 24.5  | 19.4  | 29.0  |
| 277       | 24.7  | 19.8  | 29.6  |







#37

Benzo(b)fluoranthene

Concen: 0.559 ng

RT: 22.418 min Scan# 2417

Delta R.T. -0.012 min

Lab File: BN035809.D

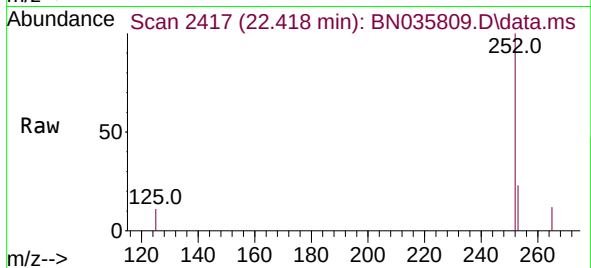
Acq: 24 Dec 2024 07:09

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC



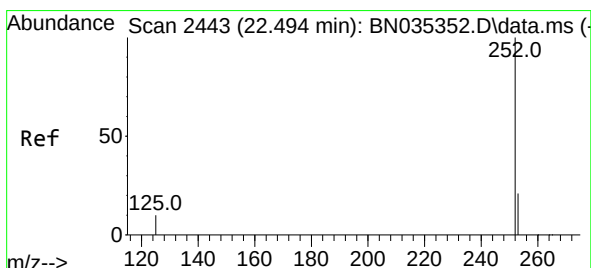
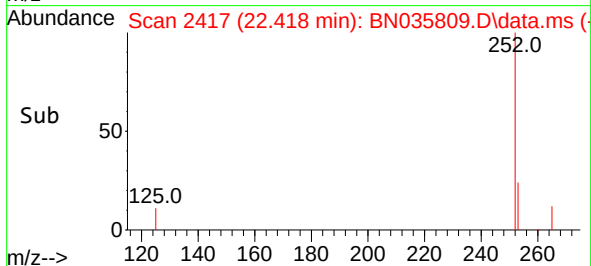
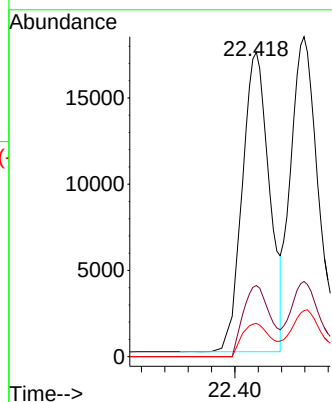
Tgt Ion:252 Resp: 43862

Ion Ratio Lower Upper

252 100

253 23.4 19.6 29.4

125 10.9 9.6 14.4



#38

Benzo(k)fluoranthene

Concen: 0.426 ng

RT: 22.459 min Scan# 2431

Delta R.T. -0.012 min

Lab File: BN035809.D

Acq: 24 Dec 2024 07:09

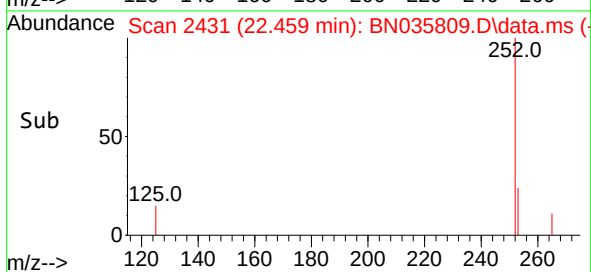
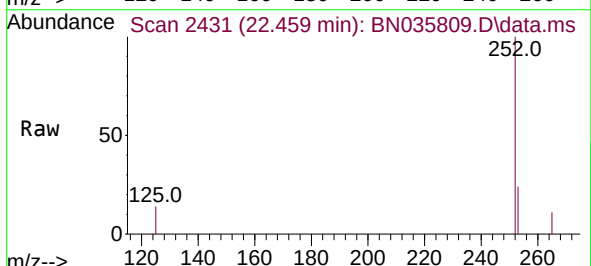
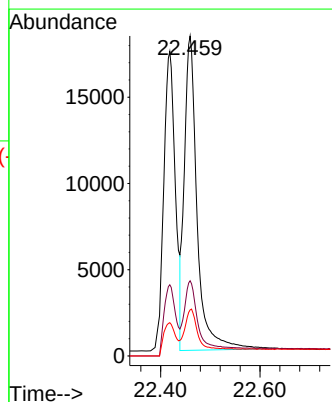
Tgt Ion:252 Resp: 32848

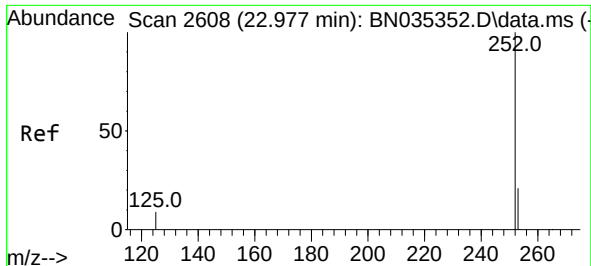
Ion Ratio Lower Upper

252 100

253 23.5 19.5 29.3

125 14.4 10.2 15.4





#39

Benzo(a)pyrene

Concen: 0.371 ng

RT: 22.939 min Scan# 21

Delta R.T. -0.012 min

Lab File: BN035809.D

Acq: 24 Dec 2024 07:09

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC

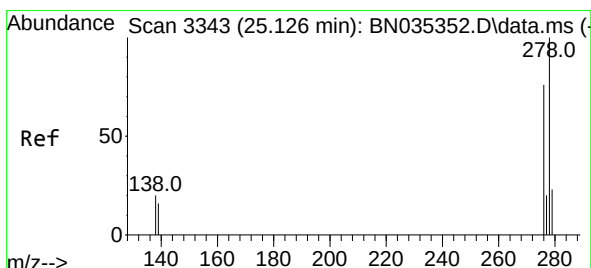
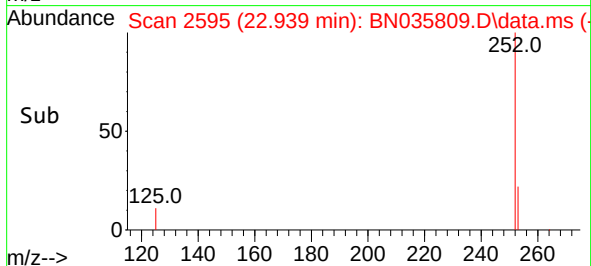
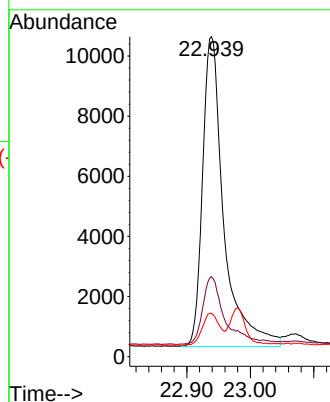
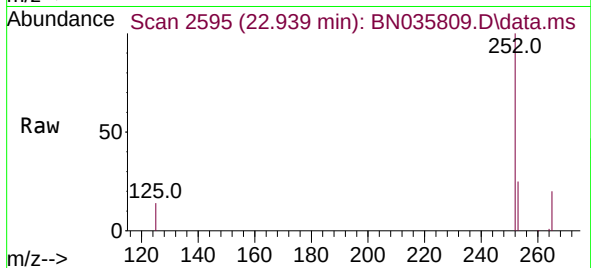
Tgt Ion:252 Resp: 23952

Ion Ratio Lower Upper

252 100

253 25.0 20.2 30.4

125 13.6 10.9 16.3



#40

Dibenzo(a,h)anthracene

Concen: 0.364 ng

RT: 25.064 min Scan# 3322

Delta R.T. -0.018 min

Lab File: BN035809.D

Acq: 24 Dec 2024 07:09

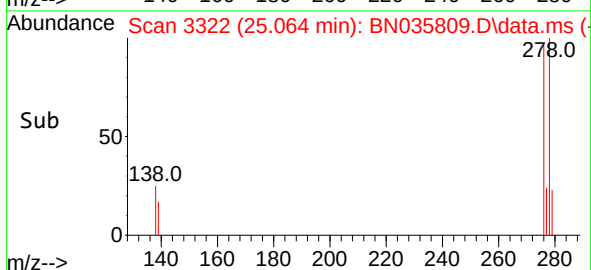
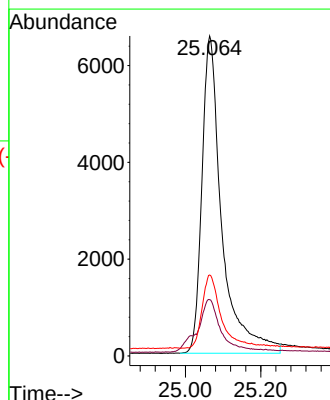
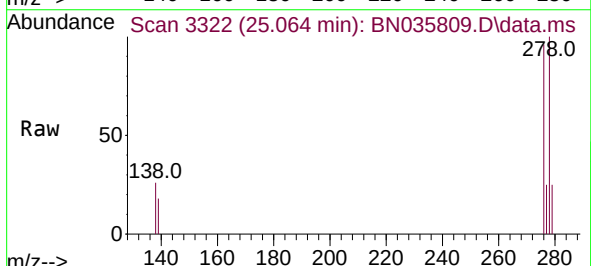
Tgt Ion:278 Resp: 24090

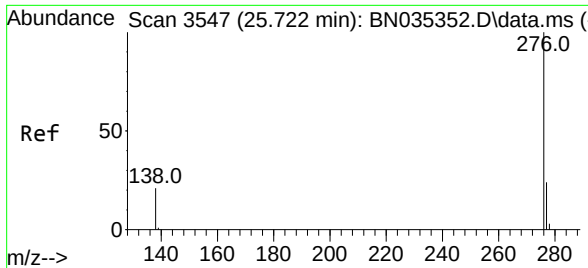
Ion Ratio Lower Upper

278 100

139 17.6 14.2 21.4

279 25.3 20.5 30.7

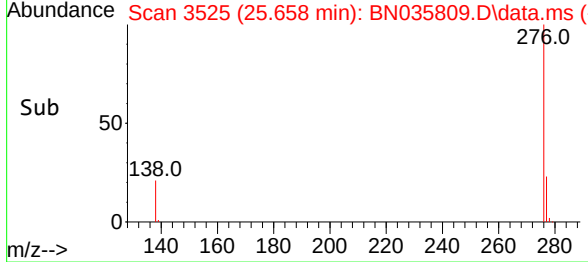
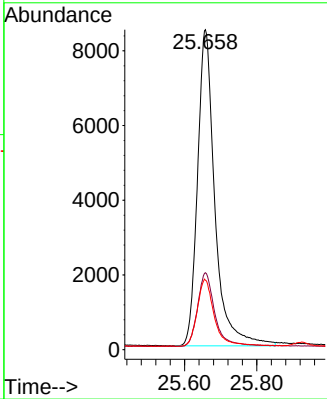
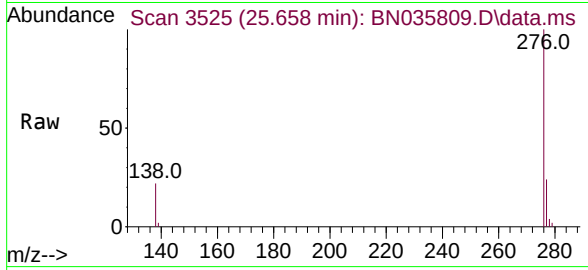




#41  
 Benzo(g,h,i)perylene  
 Concen: 0.410 ng  
 RT: 25.658 min Scan# 31  
 Delta R.T. -0.021 min  
 Lab File: BN035809.D  
 Acq: 24 Dec 2024 07:09

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4EC

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 276   | Resp: | 28353 |
| Ion      | Ratio | Lower | Upper |
| 276      | 100   |       |       |
| 277      | 24.1  | 19.9  | 29.9  |
| 138      | 21.7  | 17.8  | 26.8  |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN122624\  
 Data File : BN035845.D  
 Acq On : 26 Dec 2024 09:58  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4

Quant Time: Dec 27 00:40:11 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Dec 19 23:06:19 2024  
 Response via : Initial Calibration

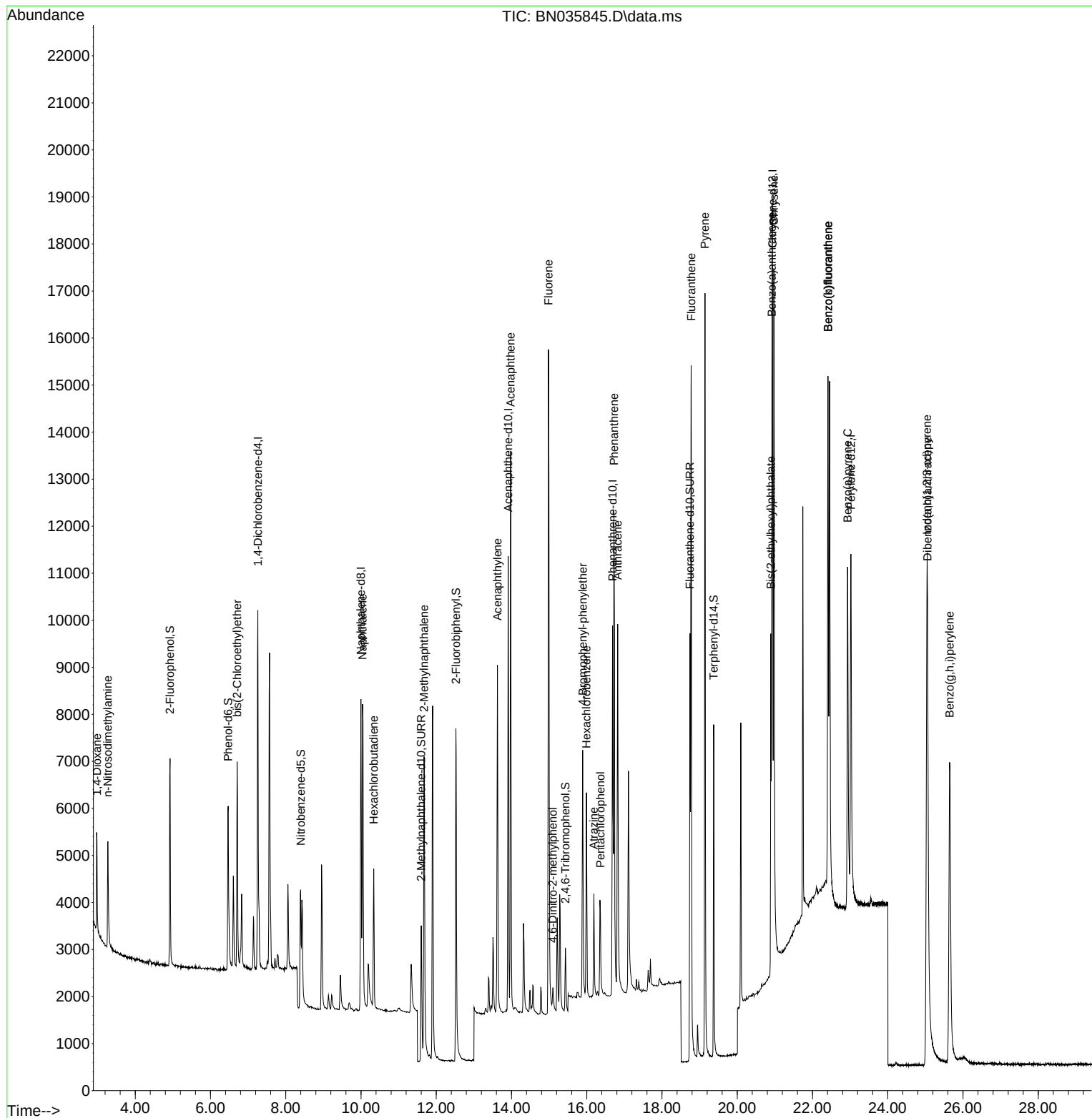
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.257  | 152  | 3755     | 0.400 | ng    | -0.01    |
| 7) Naphthalene-d8             | 9.999  | 136  | 9322     | 0.400 | ng    | #-0.02   |
| 13) Acenaphthene-d10          | 13.914 | 164  | 5387     | 0.400 | ng    | -0.02    |
| 19) Phenanthrene-d10          | 16.686 | 188  | 11262    | 0.400 | ng    | #-0.01   |
| 29) Chrysene-d12              | 20.938 | 240  | 9932     | 0.400 | ng    | #-0.02   |
| 35) Perylene-d12              | 23.021 | 264  | 10817    | 0.400 | ng    | #-0.02   |
|                               |        |      |          |       |       |          |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 4.924  | 112  | 3777     | 0.402 | ng    | -0.01    |
| 5) Phenol-d6                  | 6.470  | 99   | 4175     | 0.369 | ng    | -0.02    |
| 8) Nitrobenzene-d5            | 8.397  | 82   | 3148     | 0.553 | ng    | -0.01    |
| 11) 2-Methylnaphthalene-d10   | 11.600 | 152  | 5080     | 0.348 | ng    | -0.02    |
| 14) 2,4,6-Tribromophenol      | 15.432 | 330  | 1338     | 0.350 | ng    | -0.02    |
| 15) 2-Fluorobiphenyl          | 12.523 | 172  | 8104     | 0.398 | ng    | -0.02    |
| 27) Fluoranthene-d10          | 18.743 | 212  | 11161    | 0.350 | ng    | -0.02    |
| 31) Terphenyl-d14             | 19.375 | 244  | 7783     | 0.397 | ng    | -0.01    |
|                               |        |      |          |       |       |          |
| Target Compounds              |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 2.982  | 88   | 1520     | 0.423 | ng    | 97       |
| 3) n-Nitrosodimethylamine     | 3.270  | 42   | 1223     | 0.409 | ng    | # 82     |
| 6) bis(2-Chloroethyl)ether    | 6.708  | 93   | 3599     | 0.379 | ng    | 99       |
| 9) Naphthalene                | 10.041 | 128  | 9440     | 0.384 | ng    | 100      |
| 10) Hexachlorobutadiene       | 10.340 | 225  | 2352     | 0.415 | ng    | # 99     |
| 12) 2-Methylnaphthalene       | 11.676 | 142  | 5939     | 0.337 | ng    | 98       |
| 16) Acenaphthylene            | 13.625 | 152  | 8340     | 0.369 | ng    | 100      |
| 17) Acenaphthene              | 13.978 | 154  | 5695     | 0.379 | ng    | 99       |
| 18) Fluorene                  | 14.983 | 166  | 7523     | 0.350 | ng    | 99       |
| 20) 4,6-Dinitro-2-methylph... | 15.100 | 198  | 526      | 0.475 | ng    | # 39     |
| 21) 4-Bromophenyl-phenylether | 15.891 | 248  | 2443     | 0.371 | ng    | # 87     |
| 22) Hexachlorobenzene         | 15.991 | 284  | 3482     | 0.450 | ng    | 95       |
| 23) Atrazine                  | 16.189 | 200  | 1843     | 0.393 | ng    | 97       |
| 24) Pentachlorophenol         | 16.363 | 266  | 1383     | 0.411 | ng    | 87       |
| 25) Phenanthrene              | 16.723 | 178  | 11602    | 0.375 | ng    | 100      |
| 26) Anthracene                | 16.822 | 178  | 10005    | 0.358 | ng    | 100      |
| 28) Fluoranthene              | 18.775 | 202  | 14489    | 0.347 | ng    | 98       |
| 30) Pyrene                    | 19.142 | 202  | 15278    | 0.417 | ng    | 100      |
| 32) Benzo(a)anthracene        | 20.920 | 228  | 12798    | 0.368 | ng    | 100      |
| 33) Chrysene                  | 20.974 | 228  | 14214    | 0.397 | ng    | 100      |
| 34) Bis(2-ethylhexyl)phtha... | 20.893 | 149  | 6282     | 0.458 | ng    | 100      |
| 36) Indeno(1,2,3-cd)pyrene    | 25.041 | 276  | 15946    | 0.377 | ng    | 97       |
| 37) Benzo(b)fluoranthene      | 22.412 | 252  | 19565    | 0.494 | ng    | # 96     |
| 38) Benzo(k)fluoranthene      | 22.412 | 252  | 19565    | 0.502 | ng    | 96       |
| 39) Benzo(a)pyrene            | 22.933 | 252  | 12458    | 0.382 | ng    | # 92     |
| 40) Dibenzo(a,h)anthracene    | 25.058 | 278  | 12678    | 0.380 | ng    | 96       |
| 41) Benzo(g,h,i)perylene      | 25.646 | 276  | 14614    | 0.419 | ng    | 98       |
| -----                         |        |      |          |       |       |          |

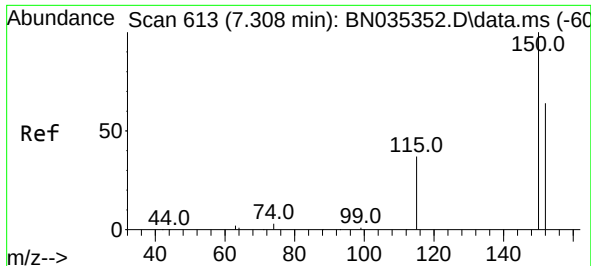
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN122624\  
Data File : BN035845.D  
Acq On : 26 Dec 2024 09:58  
Operator : RC/JU  
Sample : SSTDCCC0.4  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

Quant Time: Dec 27 00:40:11 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Dec 19 23:06:19 2024  
Response via : Initial Calibration

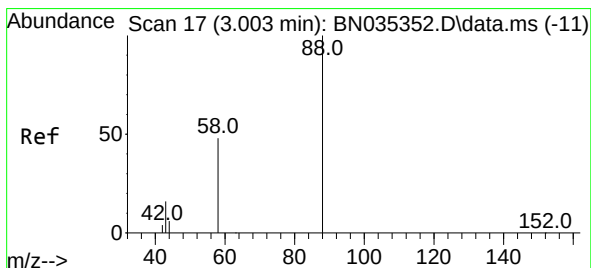
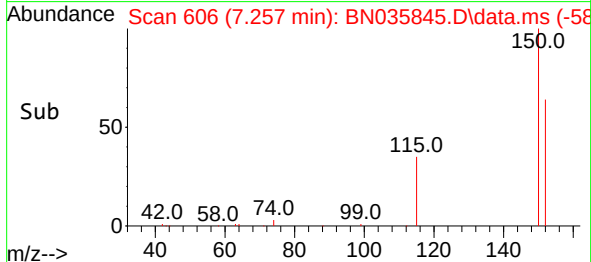
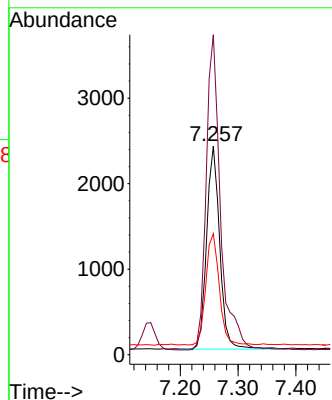
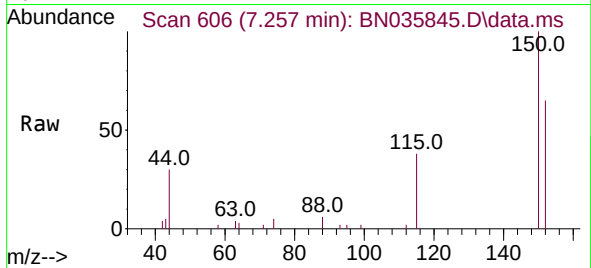




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 0.400 ng  
 RT: 7.257 min Scan# 60  
 Delta R.T. -0.015 min  
 Lab File: BN035845.D  
 Acq: 26 Dec 2024 09:58

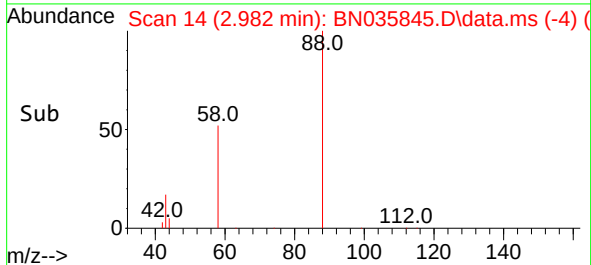
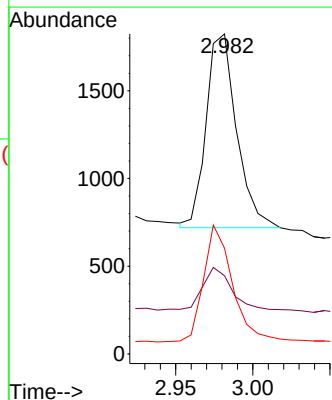
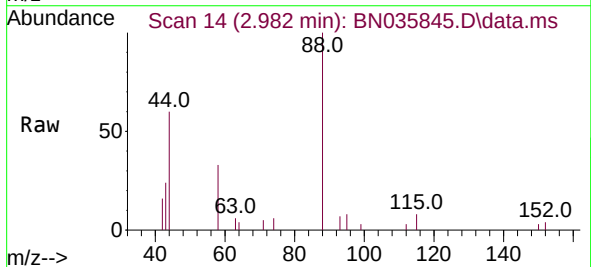
Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4

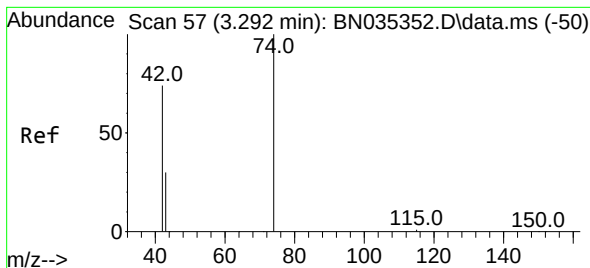
Tgt Ion:152 Resp: 3755  
 Ion Ratio Lower Upper  
 152 100  
 150 153.5 124.0 186.0  
 115 58.0 49.6 74.4



#2  
 1,4-Dioxane  
 Concen: 0.423 ng  
 RT: 2.982 min Scan# 14  
 Delta R.T. -0.000 min  
 Lab File: BN035845.D  
 Acq: 26 Dec 2024 09:58

Tgt Ion: 88 Resp: 1520  
 Ion Ratio Lower Upper  
 88 100  
 43 19.9 17.2 25.8  
 58 57.5 44.5 66.7





#3

n-Nitrosodimethylamine

Concen: 0.409 ng

RT: 3.270 min Scan# 54

Delta R.T. -0.007 min

Lab File: BN035845.D

Acq: 26 Dec 2024 09:58

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

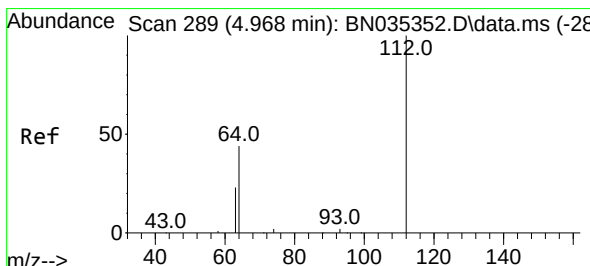
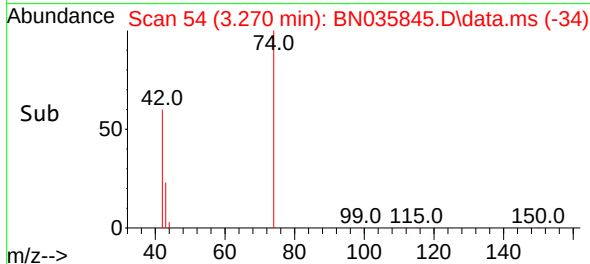
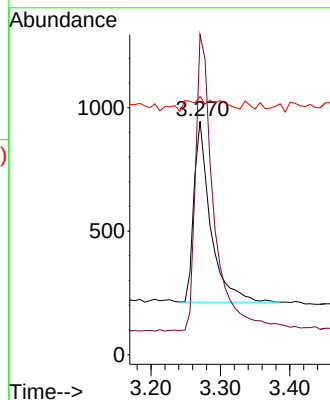
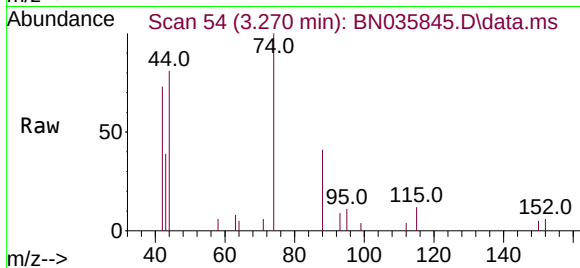
Tgt Ion: 42 Resp: 1223

Ion Ratio Lower Upper

42 100

74 179.4 124.9 187.3

44 16.9 2.2 3.4#



#4

2-Fluorophenol

Concen: 0.402 ng

RT: 4.924 min Scan# 283

Delta R.T. -0.015 min

Lab File: BN035845.D

Acq: 26 Dec 2024 09:58

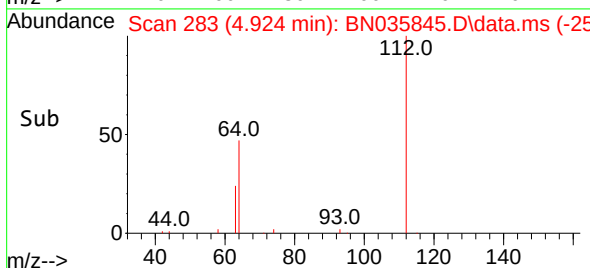
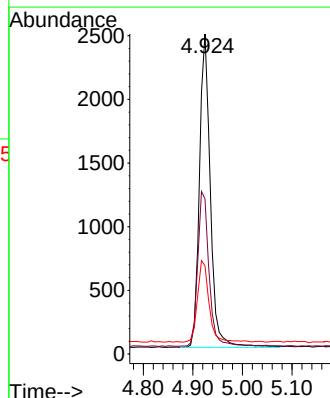
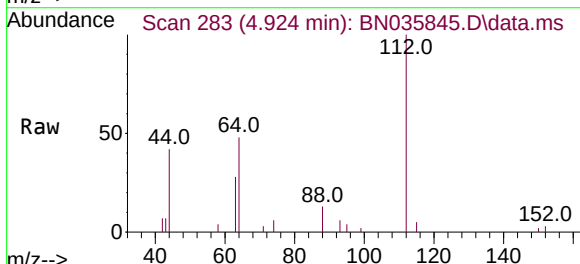
Tgt Ion: 112 Resp: 3777

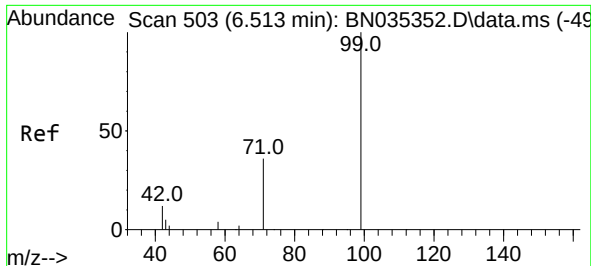
Ion Ratio Lower Upper

112 100

64 51.0 39.8 59.8

63 27.5 21.0 31.6

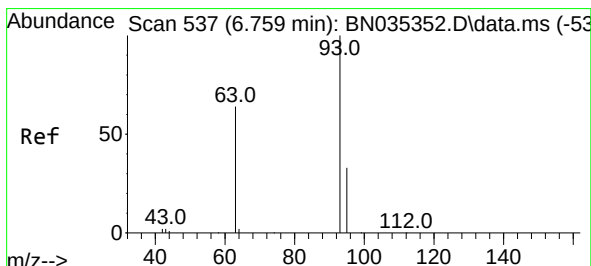
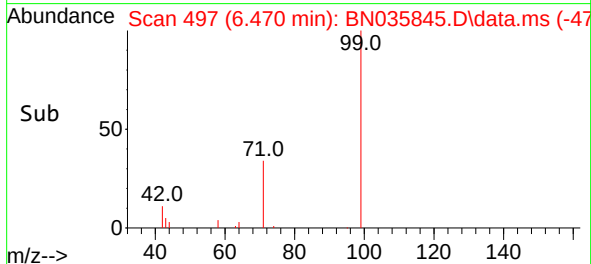
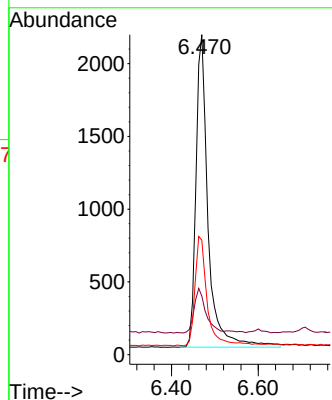
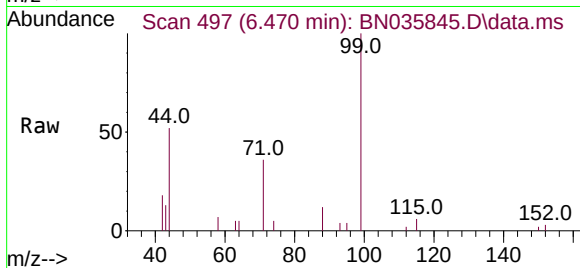




#5  
Phenol-d6  
Concen: 0.369 ng  
RT: 6.470 min Scan# 497  
Delta R.T. -0.022 min  
Lab File: BN035845.D  
Acq: 26 Dec 2024 09:58

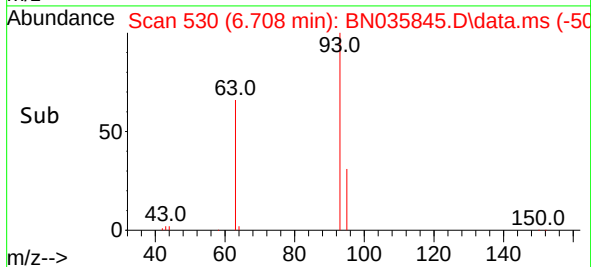
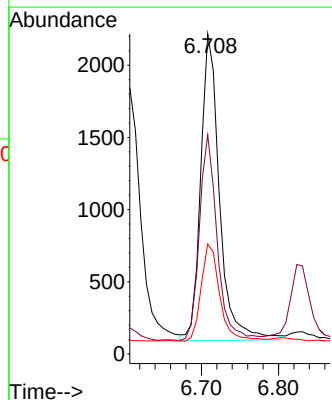
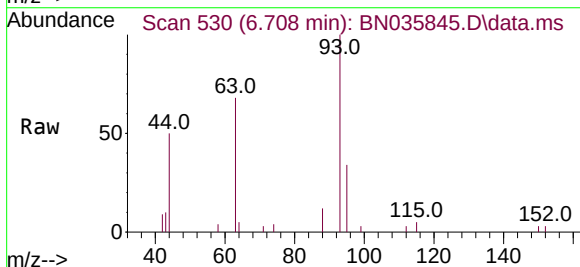
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 99    | Resp: | 4175  |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 14.0  | 11.4  | 17.2  |
| 71       | 35.3  | 29.3  | 43.9  |

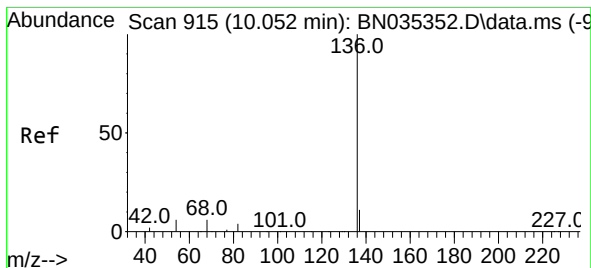


#6  
bis(2-Chloroethyl)ether  
Concen: 0.379 ng  
RT: 6.708 min Scan# 530  
Delta R.T. -0.022 min  
Lab File: BN035845.D  
Acq: 26 Dec 2024 09:58

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 93    | Resp: | 3599  |
| Ion      | Ratio | Lower | Upper |
| 93       | 100   |       |       |
| 63       | 63.3  | 50.4  | 75.6  |
| 95       | 31.3  | 25.7  | 38.5  |







#7

Naphthalene-d8

Concen: 0.400 ng

RT: 9.999 min Scan# 91

Delta R.T. -0.022 min

Lab File: BN035845.D

Acq: 26 Dec 2024 09:58

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion:136 Resp: 9322

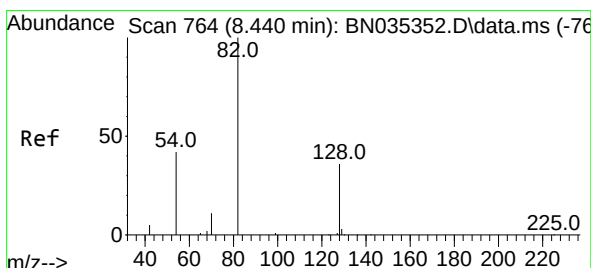
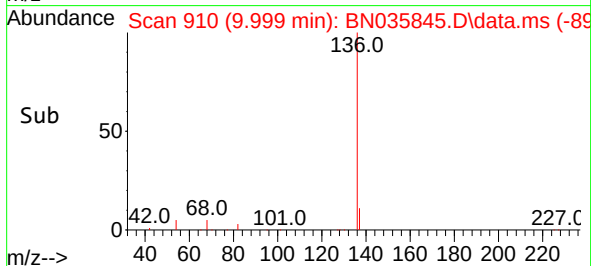
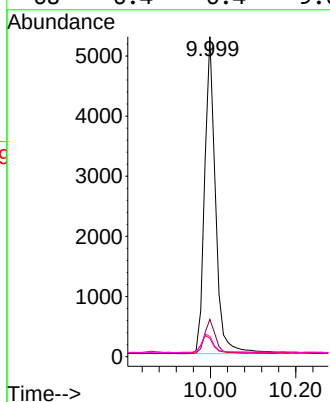
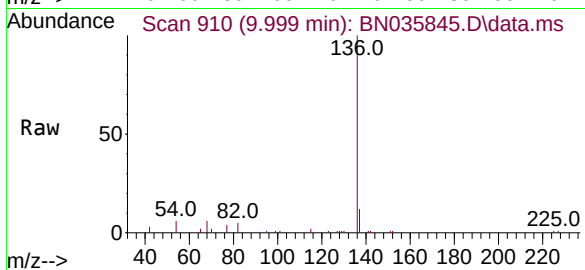
Ion Ratio Lower Upper

136 100

137 11.6 10.2 15.2

54 5.8 6.1 9.1#

68 6.4 6.4 9.6#



#8

Nitrobenzene-d5

Concen: 0.553 ng

RT: 8.397 min Scan# 760

Delta R.T. -0.011 min

Lab File: BN035845.D

Acq: 26 Dec 2024 09:58

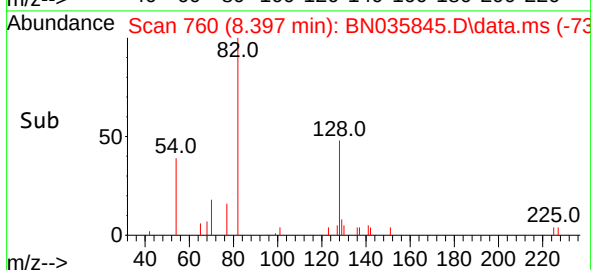
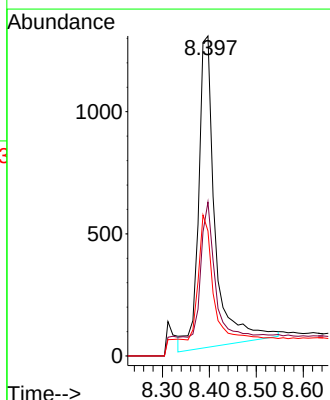
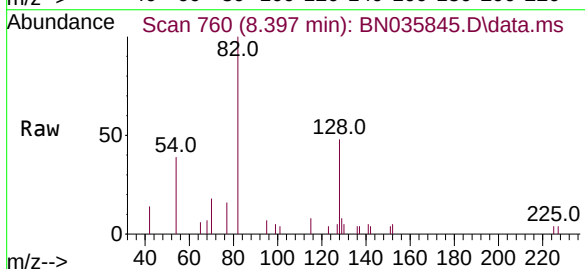
Tgt Ion: 82 Resp: 3148

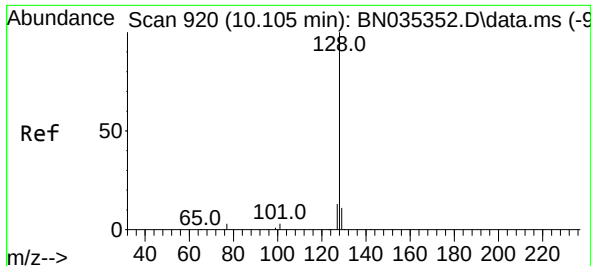
Ion Ratio Lower Upper

82 100

128 48.1 33.4 50.0

54 39.1 36.7 55.1

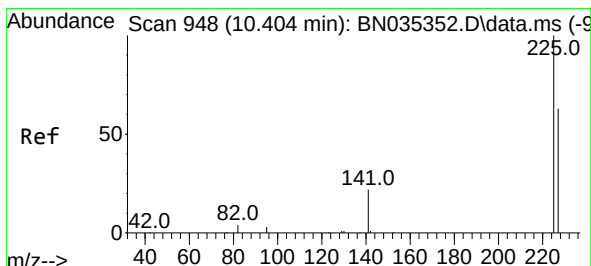
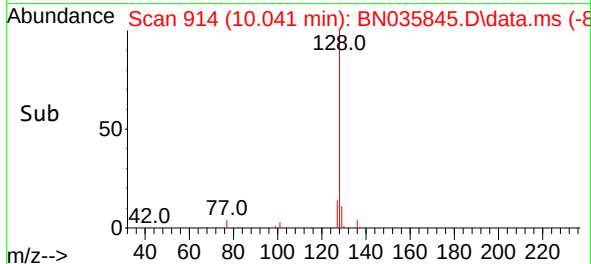
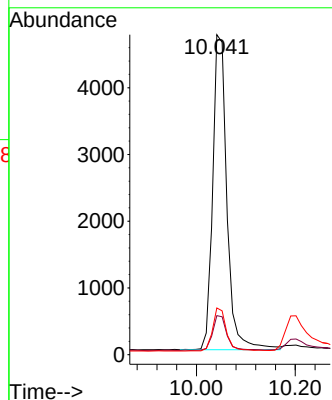
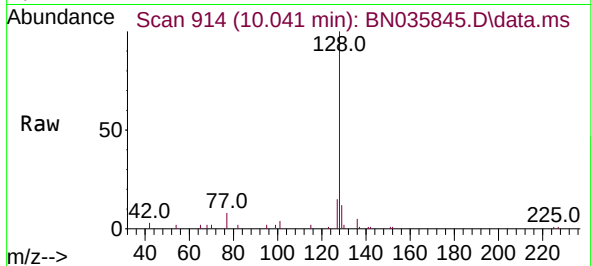




#9  
Naphthalene  
Concen: 0.384 ng  
RT: 10.041 min Scan# 914  
Delta R.T. -0.021 min  
Lab File: BN035845.D  
Acq: 26 Dec 2024 09:58

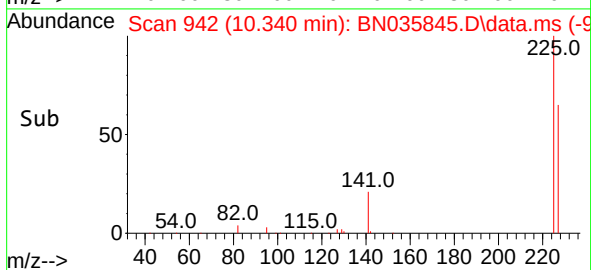
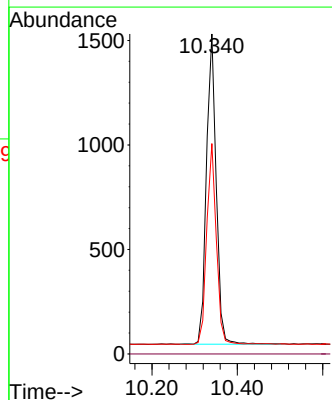
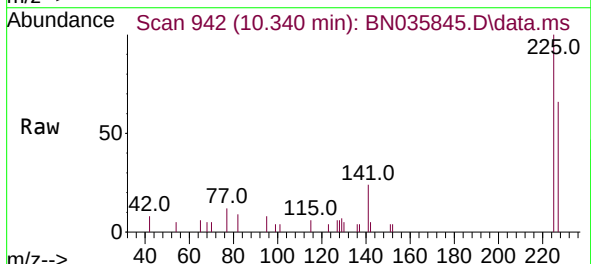
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

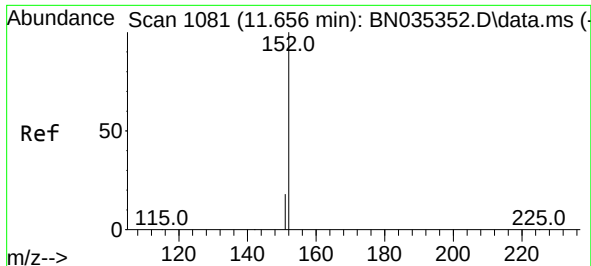
Tgt Ion:128 Resp: 9440  
Ion Ratio Lower Upper  
128 100  
129 12.2 9.8 14.6  
127 14.6 11.4 17.2



#10  
Hexachlorobutadiene  
Concen: 0.415 ng  
RT: 10.340 min Scan# 942  
Delta R.T. -0.021 min  
Lab File: BN035845.D  
Acq: 26 Dec 2024 09:58

Tgt Ion:225 Resp: 2352  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 63.7 51.3 76.9

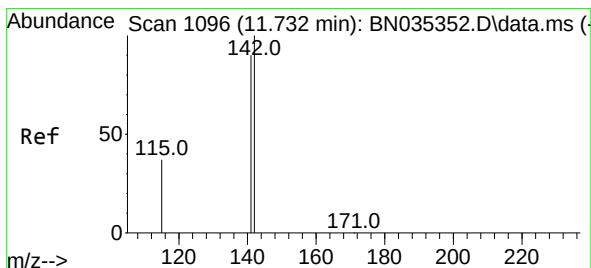
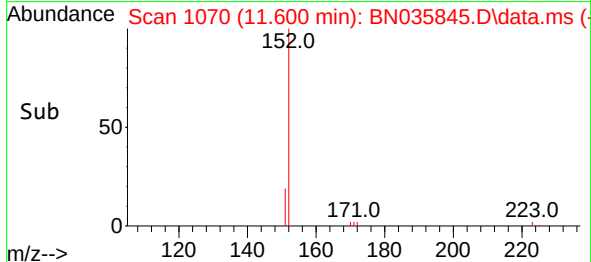
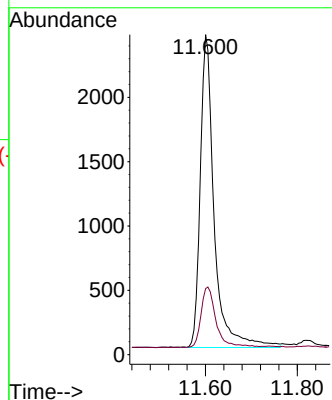
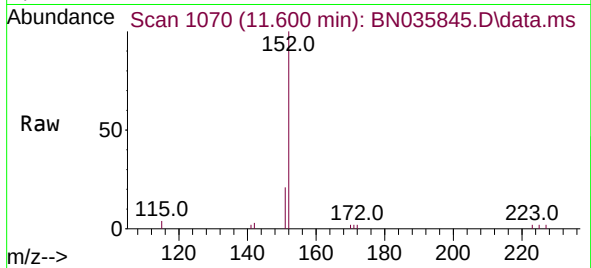




#11  
2-Methylnaphthalene-d10  
Concen: 0.348 ng  
RT: 11.600 min Scan# 1070  
Delta R.T. -0.020 min  
Lab File: BN035845.D  
Acq: 26 Dec 2024 09:58

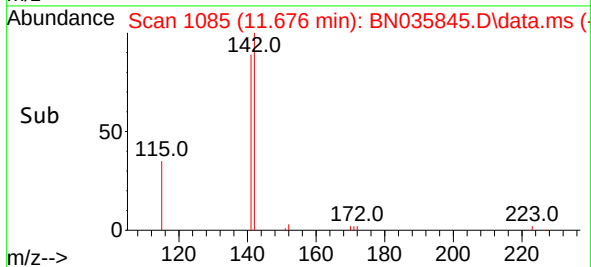
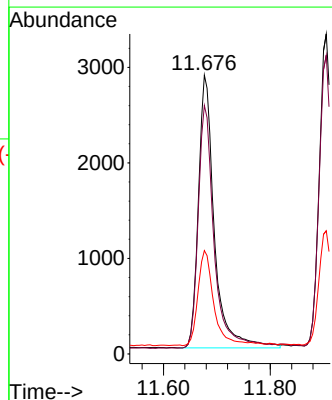
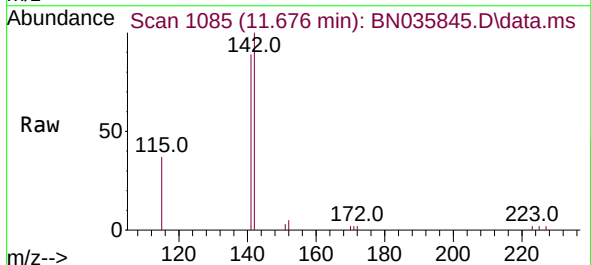
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

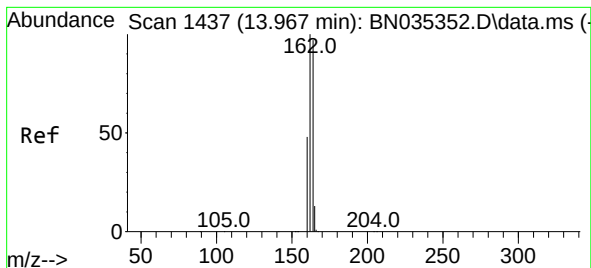
Tgt Ion:152 Resp: 5080  
Ion Ratio Lower Upper  
152 100  
151 21.0 16.6 25.0



#12  
2-Methylnaphthalene  
Concen: 0.337 ng  
RT: 11.676 min Scan# 1085  
Delta R.T. -0.020 min  
Lab File: BN035845.D  
Acq: 26 Dec 2024 09:58

Tgt Ion:142 Resp: 5939  
Ion Ratio Lower Upper  
142 100  
141 89.1 72.2 108.4  
115 37.1 31.4 47.0





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 13.914 min Scan# 14

Delta R.T. -0.022 min

Lab File: BN035845.D

Acq: 26 Dec 2024 09:58

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

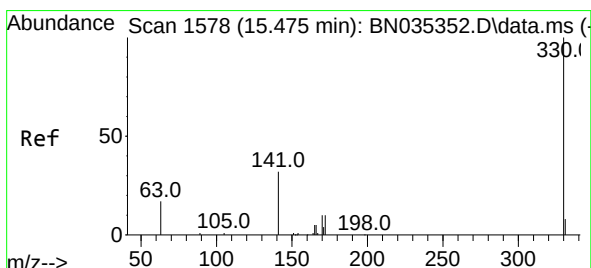
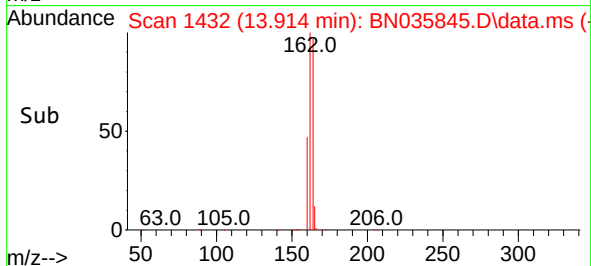
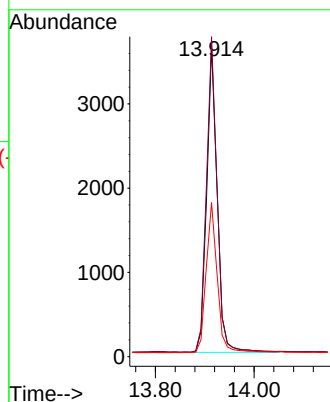
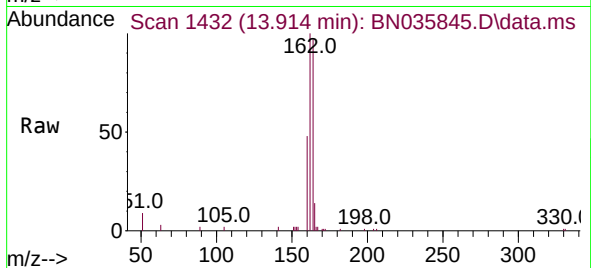
Tgt Ion:164 Resp: 5387

Ion Ratio Lower Upper

164 100

162 103.2 82.2 123.2

160 49.7 40.1 60.1



#14

2,4,6-Tribromophenol

Concen: 0.350 ng

RT: 15.432 min Scan# 1574

Delta R.T. -0.022 min

Lab File: BN035845.D

Acq: 26 Dec 2024 09:58

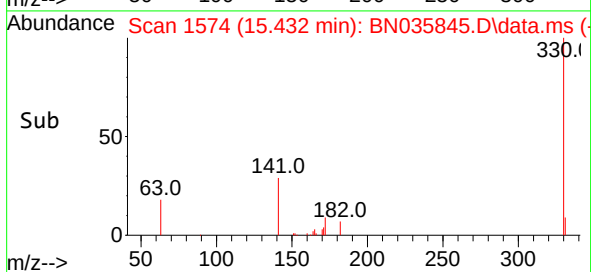
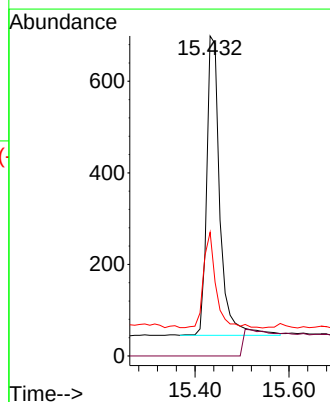
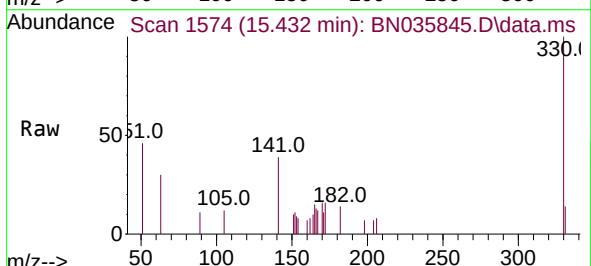
Tgt Ion:330 Resp: 1338

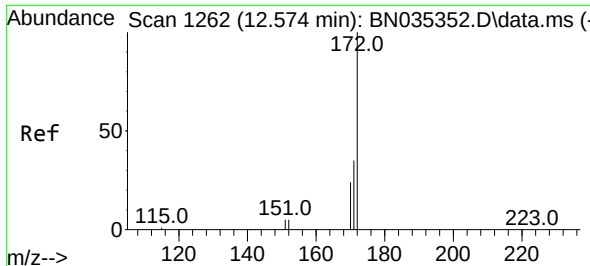
Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

141 29.7 26.6 40.0

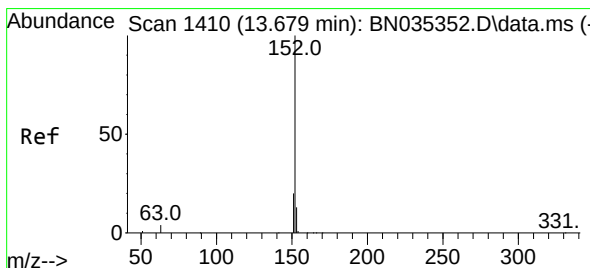
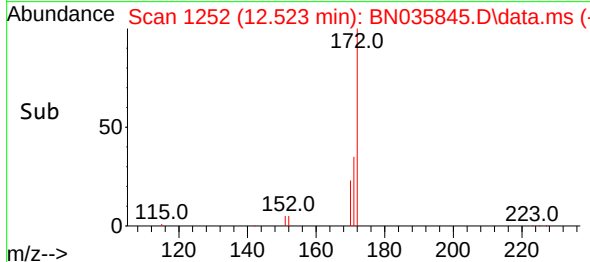
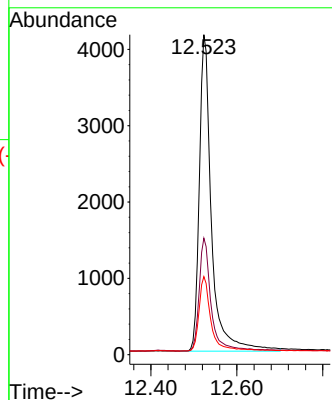
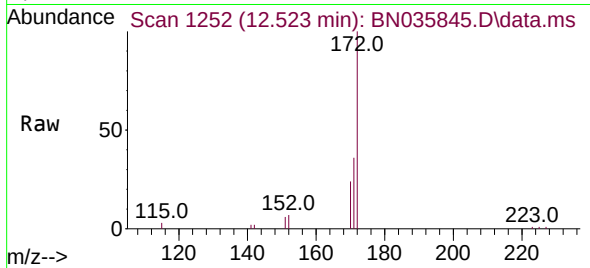




#15  
2-Fluorobiphenyl  
Concen: 0.398 ng  
RT: 12.523 min Scan# 11  
Delta R.T. -0.020 min  
Lab File: BN035845.D  
Acq: 26 Dec 2024 09:58

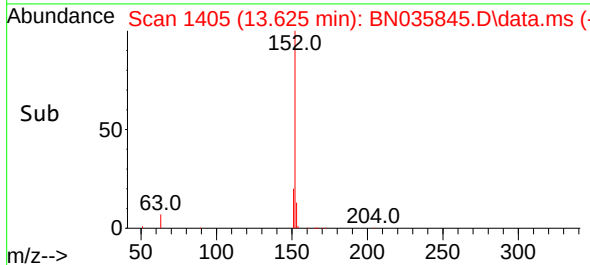
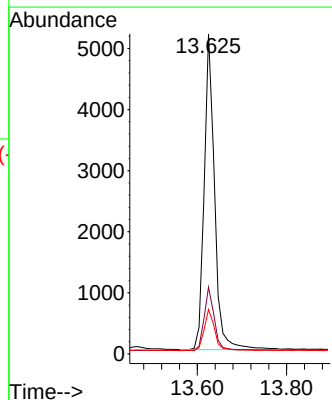
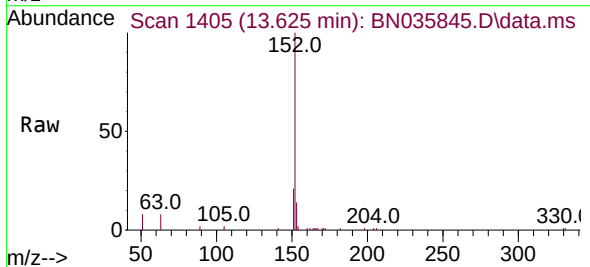
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

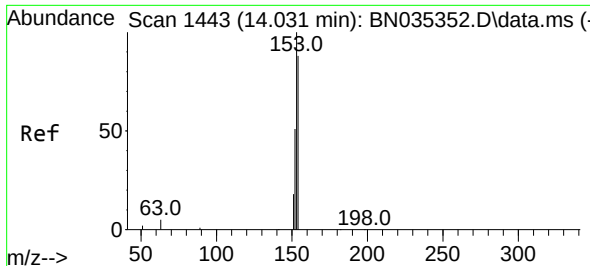
Tgt Ion:172 Resp: 8104  
Ion Ratio Lower Upper  
172 100  
171 36.4 29.0 43.4  
170 24.4 19.8 29.8



#16  
Acenaphthylene  
Concen: 0.369 ng  
RT: 13.625 min Scan# 1405  
Delta R.T. -0.022 min  
Lab File: BN035845.D  
Acq: 26 Dec 2024 09:58

Tgt Ion:152 Resp: 8340  
Ion Ratio Lower Upper  
152 100  
151 20.1 16.2 24.2  
153 13.2 10.4 15.6

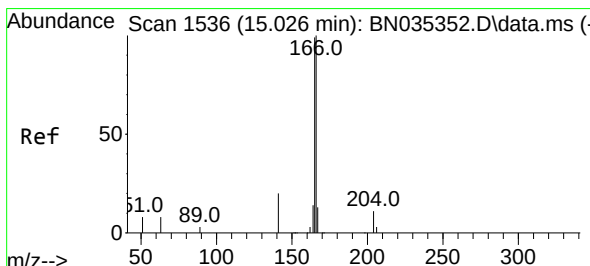
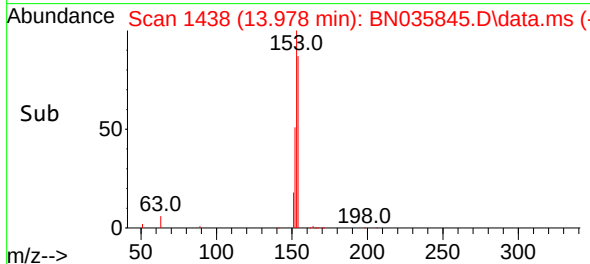
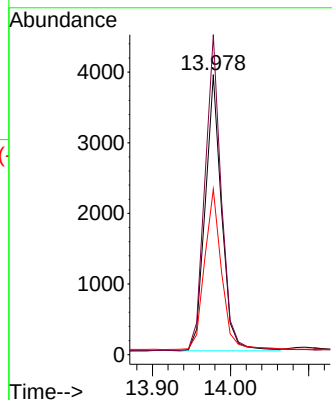
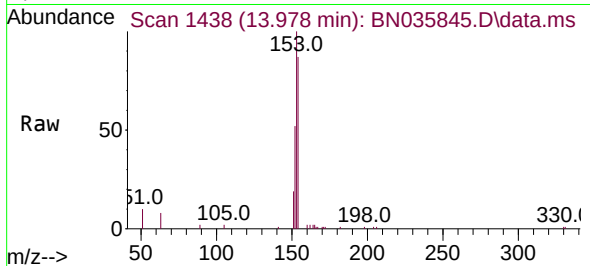




#17  
Acenaphthene  
Concen: 0.379 ng  
RT: 13.978 min Scan# 14  
Delta R.T. -0.022 min  
Lab File: BN035845.D  
Acq: 26 Dec 2024 09:58

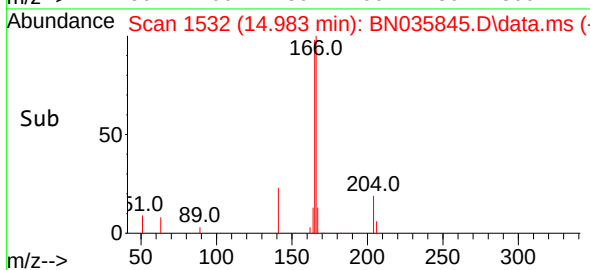
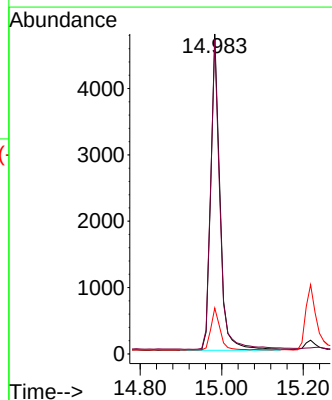
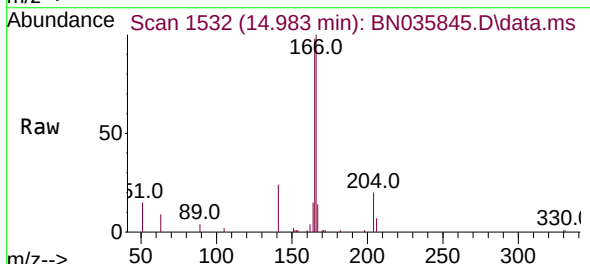
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

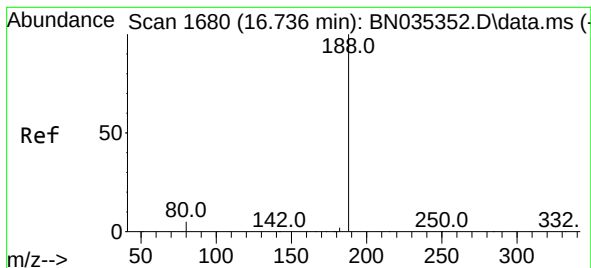
Tgt Ion:154 Resp: 5695  
Ion Ratio Lower Upper  
154 100  
153 116.1 92.6 139.0  
152 60.4 49.0 73.6



#18  
Fluorene  
Concen: 0.350 ng  
RT: 14.983 min Scan# 1532  
Delta R.T. -0.022 min  
Lab File: BN035845.D  
Acq: 26 Dec 2024 09:58

Tgt Ion:166 Resp: 7523  
Ion Ratio Lower Upper  
166 100  
165 98.0 79.7 119.5  
167 13.4 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.686 min Scan# 1

Delta R.T. -0.013 min

Lab File: BN035845.D

Acq: 26 Dec 2024 09:58

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

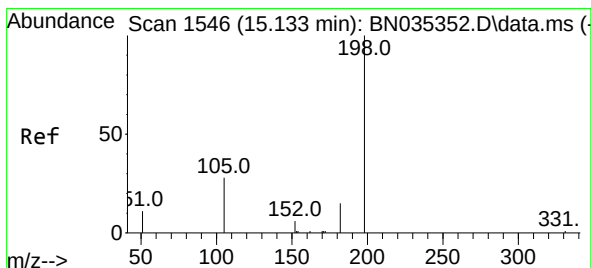
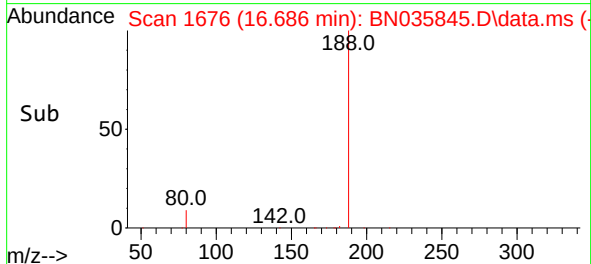
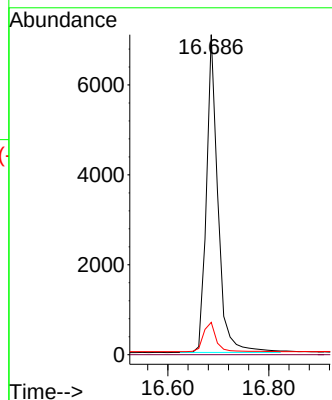
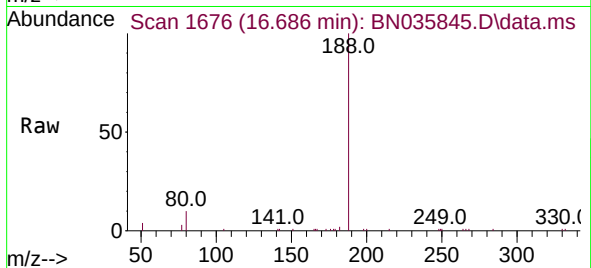
Tgt Ion:188 Resp: 11262

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.1 4.6 6.8#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.475 ng

RT: 15.100 min Scan# 1543

Delta R.T. -0.022 min

Lab File: BN035845.D

Acq: 26 Dec 2024 09:58

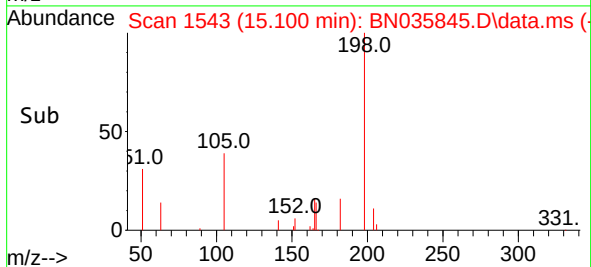
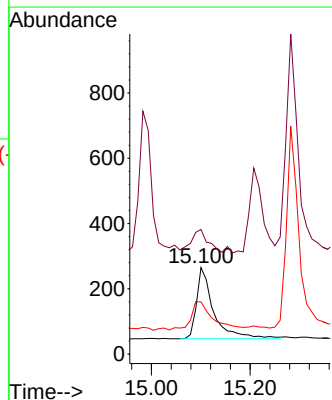
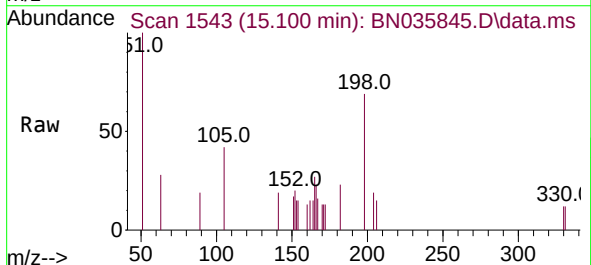
Tgt Ion:198 Resp: 526

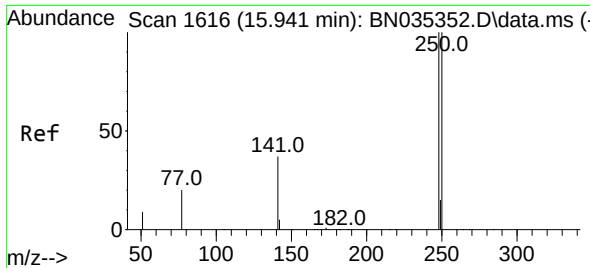
Ion Ratio Lower Upper

198 100

51 144.2 46.5 69.7#

105 60.4 45.3 67.9

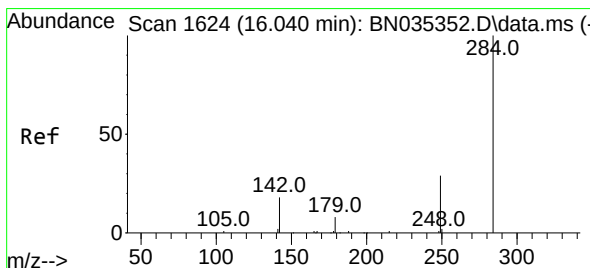
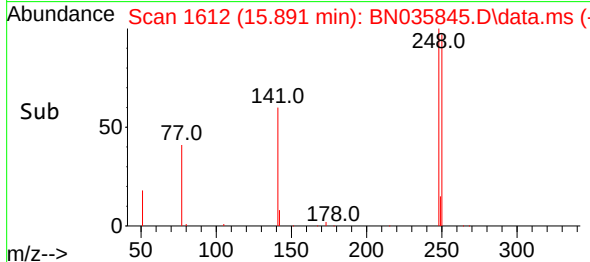
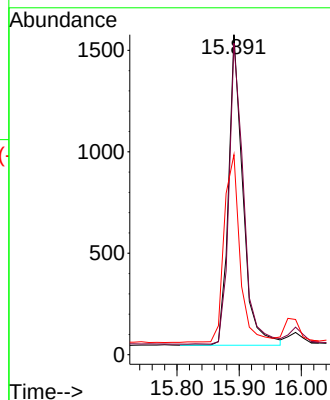
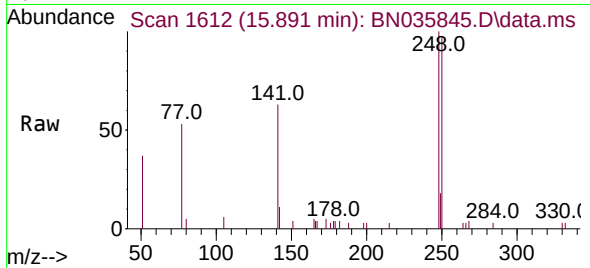




#21  
4-Bromophenyl-phenylether  
Concen: 0.371 ng  
RT: 15.891 min Scan# 1612  
Delta R.T. -0.025 min  
Lab File: BN035845.D  
Acq: 26 Dec 2024 09:58

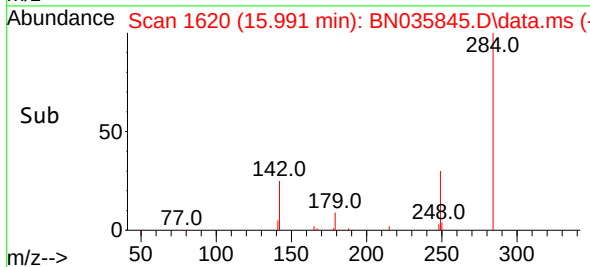
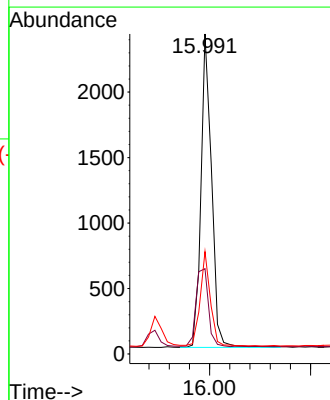
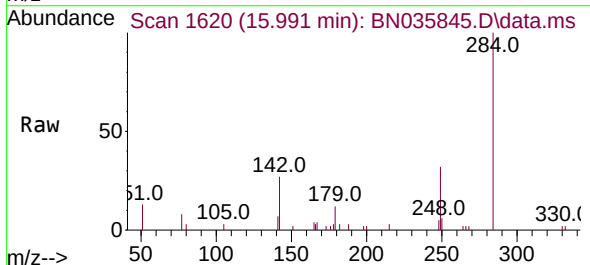
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

Tgt Ion:248 Resp: 2443  
Ion Ratio Lower Upper  
248 100  
250 97.3 80.6 120.8  
141 62.5 31.5 47.3#

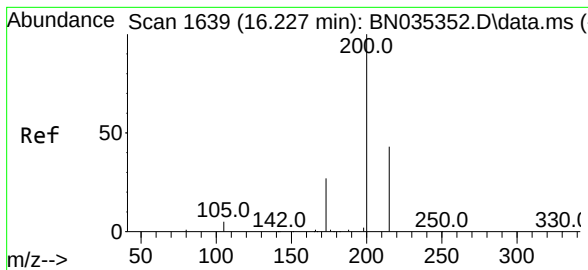


#22  
Hexachlorobenzene  
Concen: 0.450 ng  
RT: 15.991 min Scan# 1620  
Delta R.T. -0.025 min  
Lab File: BN035845.D  
Acq: 26 Dec 2024 09:58

Tgt Ion:284 Resp: 3482  
Ion Ratio Lower Upper  
284 100  
142 29.6 26.7 40.1  
249 28.9 24.6 36.8







#23

Atrazine

Concen: 0.393 ng

RT: 16.189 min Scan# 1

Delta R.T. -0.013 min

Lab File: BN035845.D

Acq: 26 Dec 2024 09:58

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

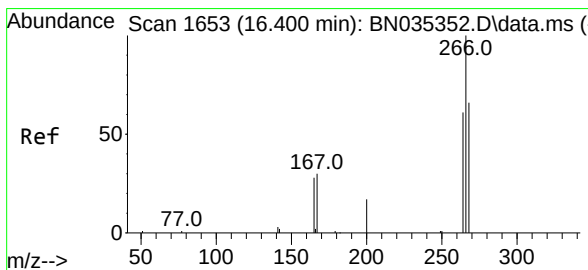
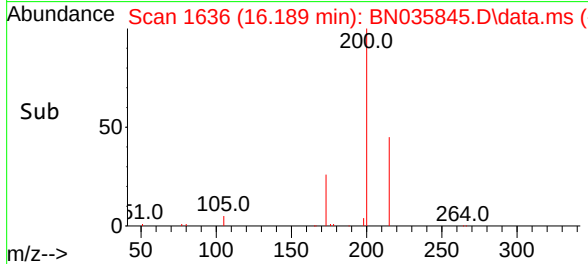
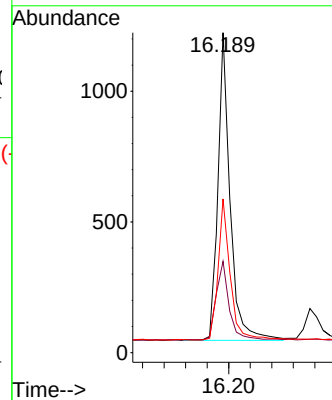
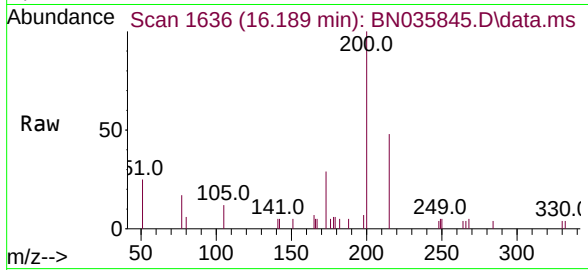
Tgt Ion:200 Resp: 1843

Ion Ratio Lower Upper

200 100

173 28.5 24.1 36.1

215 48.0 36.9 55.3



#24

Pentachlorophenol

Concen: 0.411 ng

RT: 16.363 min Scan# 1650

Delta R.T. -0.013 min

Lab File: BN035845.D

Acq: 26 Dec 2024 09:58

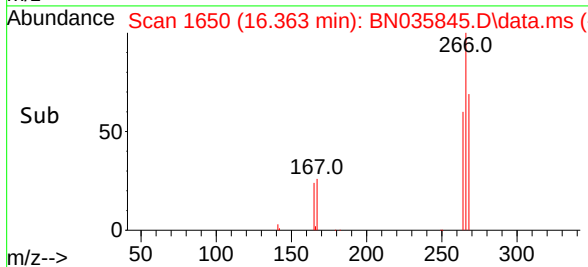
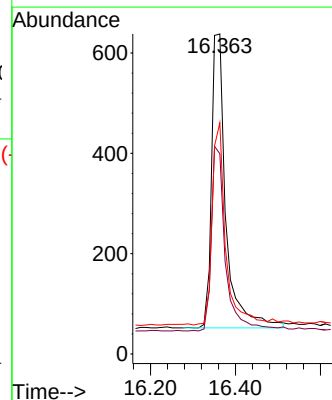
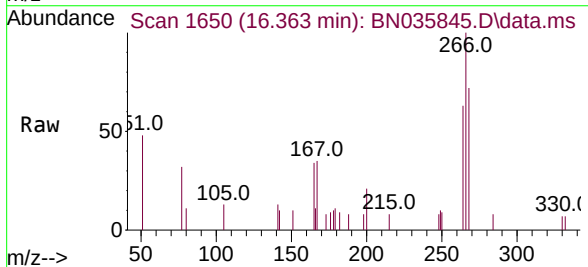
Tgt Ion:266 Resp: 1383

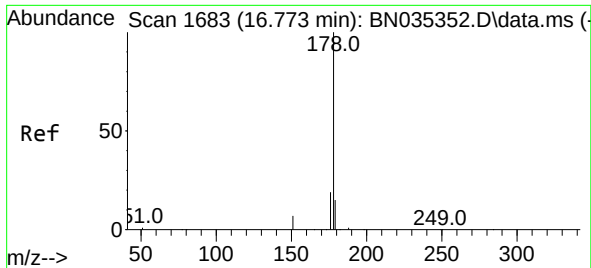
Ion Ratio Lower Upper

266 100

264 61.3 42.3 63.5

268 63.8 43.3 64.9

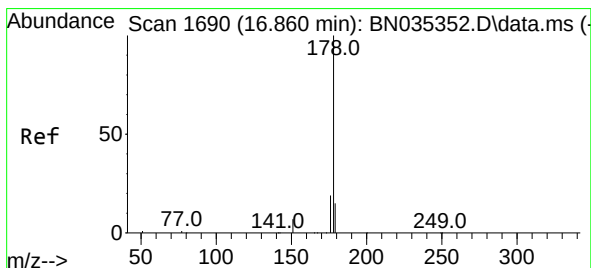
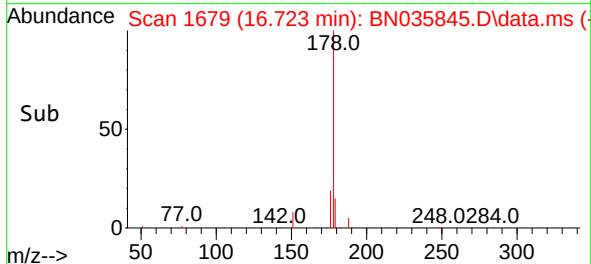
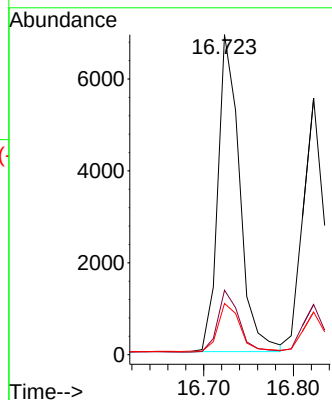
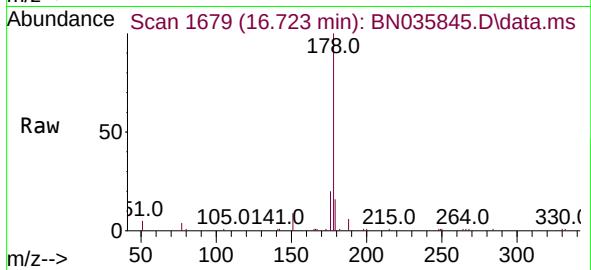




#25  
Phenanthrene  
Concen: 0.375 ng  
RT: 16.723 min Scan# 1682  
Delta R.T. -0.025 min  
Lab File: BN035845.D  
Acq: 26 Dec 2024 09:58

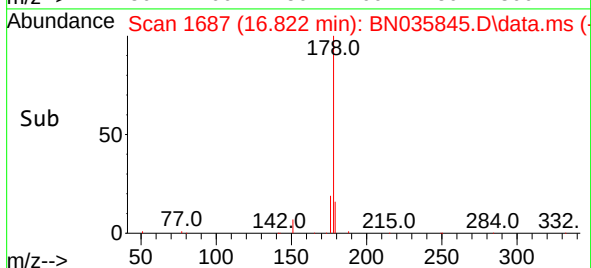
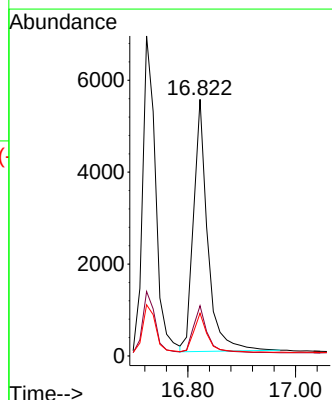
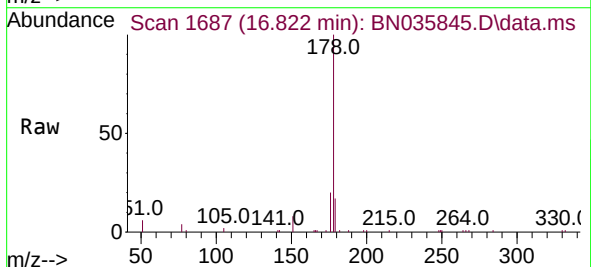
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

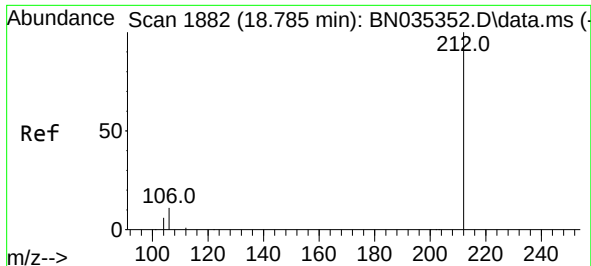
Tgt Ion:178 Resp: 11602  
Ion Ratio Lower Upper  
178 100  
176 19.2 15.4 23.2  
179 15.7 12.3 18.5



#26  
Anthracene  
Concen: 0.358 ng  
RT: 16.822 min Scan# 1687  
Delta R.T. -0.013 min  
Lab File: BN035845.D  
Acq: 26 Dec 2024 09:58

Tgt Ion:178 Resp: 10005  
Ion Ratio Lower Upper  
178 100  
176 18.8 15.0 22.6  
179 15.3 12.6 18.8





#27

Fluoranthene-d10

Concen: 0.350 ng

RT: 18.743 min Scan# 1873

Delta R.T. -0.019 min

Lab File: BN035845.D

Acq: 26 Dec 2024 09:58

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

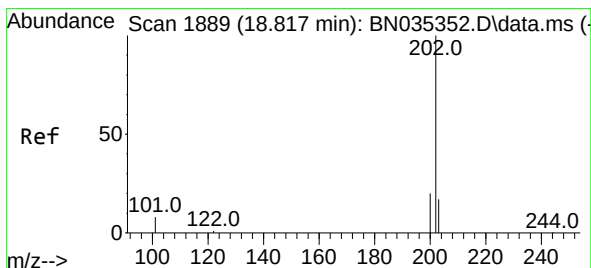
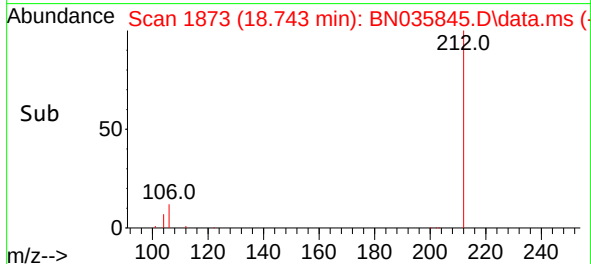
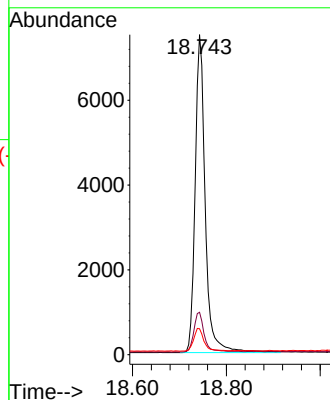
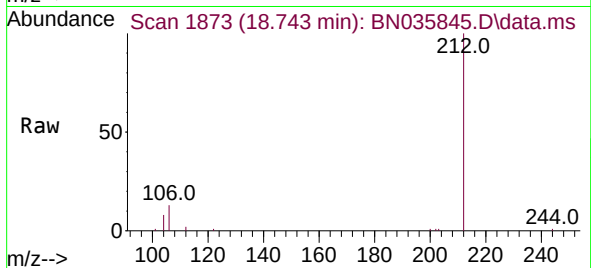
Tgt Ion:212 Resp: 11161

Ion Ratio Lower Upper

212 100

106 12.7 9.2 13.8

104 7.4 5.3 7.9



#28

Fluoranthene

Concen: 0.347 ng

RT: 18.775 min Scan# 1880

Delta R.T. -0.014 min

Lab File: BN035845.D

Acq: 26 Dec 2024 09:58

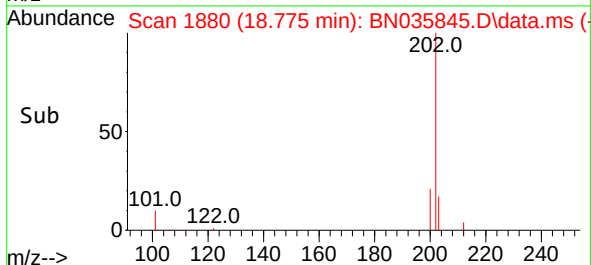
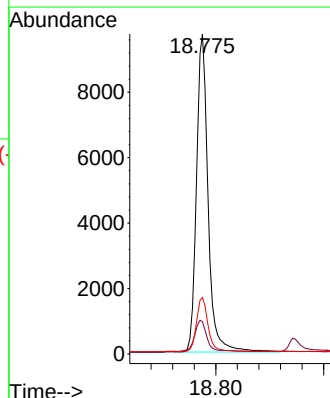
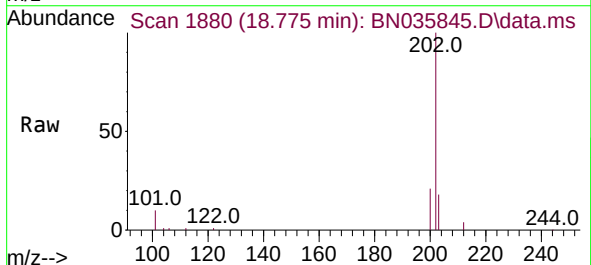
Tgt Ion:202 Resp: 14489

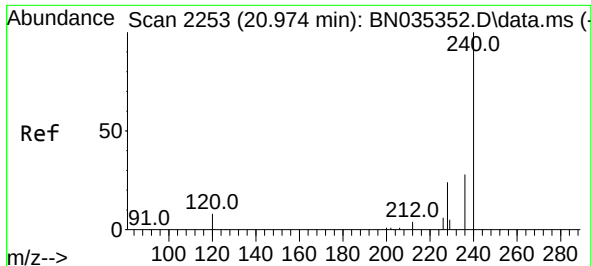
Ion Ratio Lower Upper

202 100

101 10.7 7.4 11.0

203 17.0 13.7 20.5

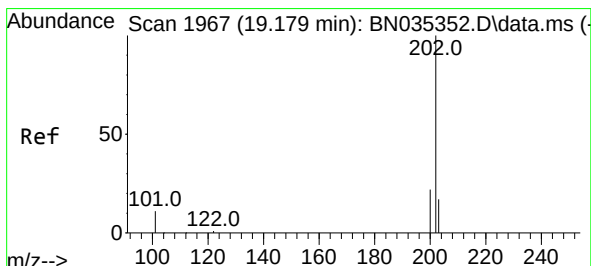
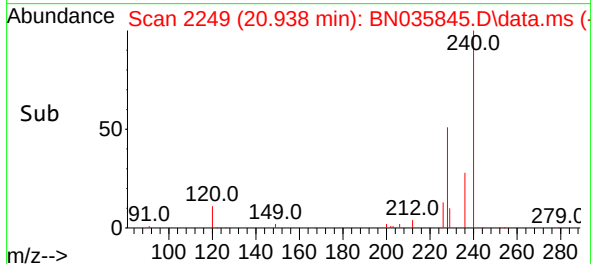
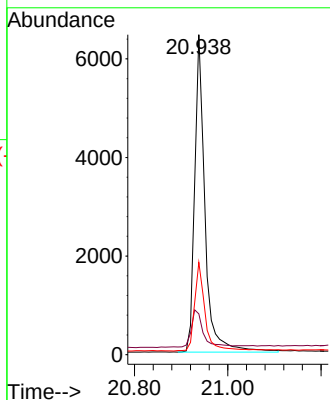
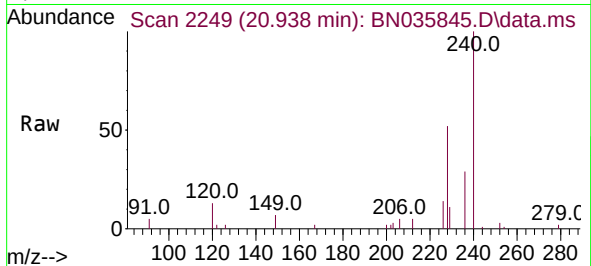




#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 20.938 min Scan# 21  
Delta R.T. -0.018 min  
Lab File: BN035845.D  
Acq: 26 Dec 2024 09:58

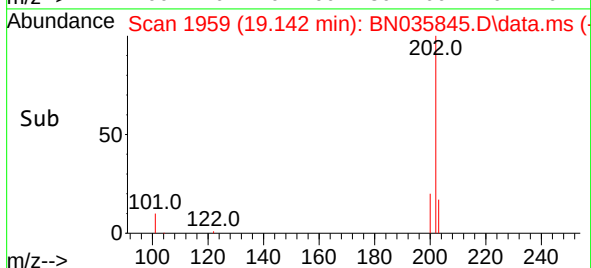
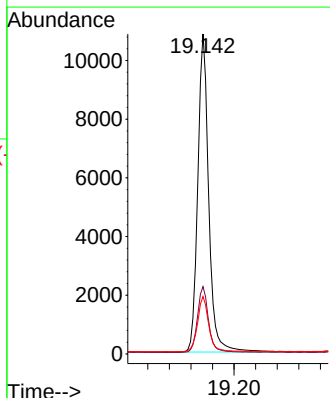
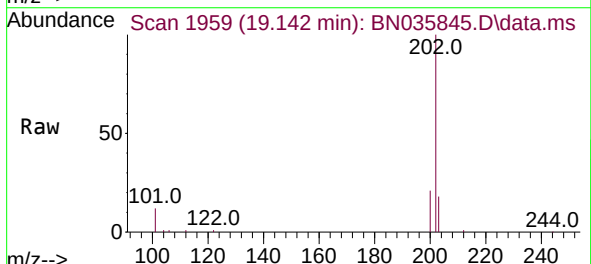
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

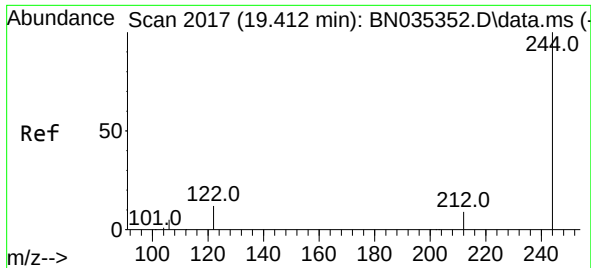
Tgt Ion:240 Resp: 9932  
Ion Ratio Lower Upper  
240 100  
120 12.7 7.9 11.9#  
236 28.9 22.9 34.3



#30  
Pyrene  
Concen: 0.417 ng  
RT: 19.142 min Scan# 1959  
Delta R.T. -0.019 min  
Lab File: BN035845.D  
Acq: 26 Dec 2024 09:58

Tgt Ion:202 Resp: 15278  
Ion Ratio Lower Upper  
202 100  
200 21.0 17.0 25.4  
203 17.9 14.3 21.5

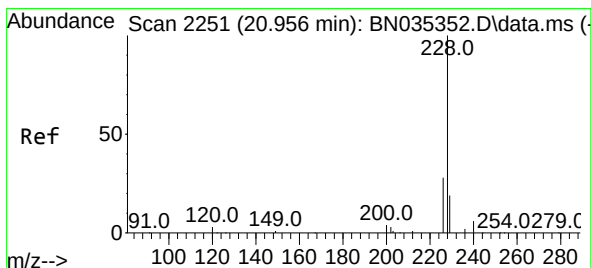
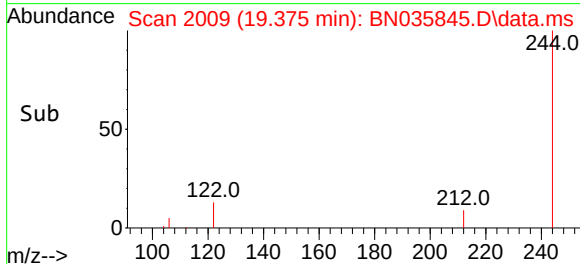
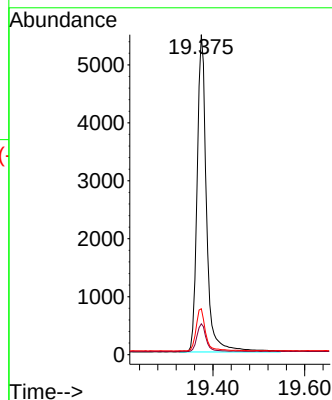
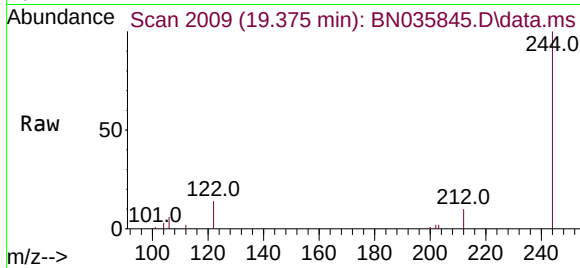




#31  
 Terphenyl-d14  
 Concen: 0.397 ng  
 RT: 19.375 min Scan# 2017  
 Delta R.T. -0.014 min  
 Lab File: BN035845.D  
 Acq: 26 Dec 2024 09:58

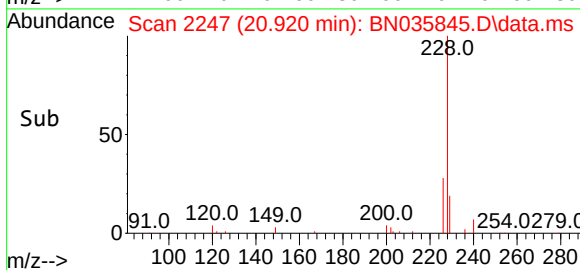
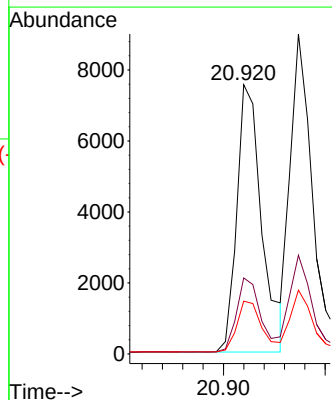
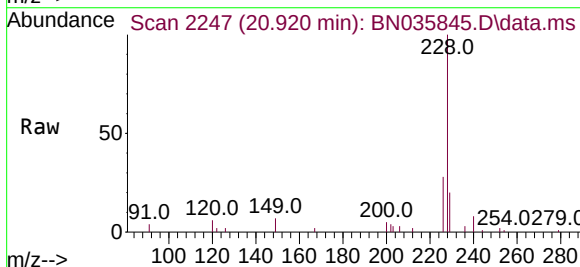
Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4

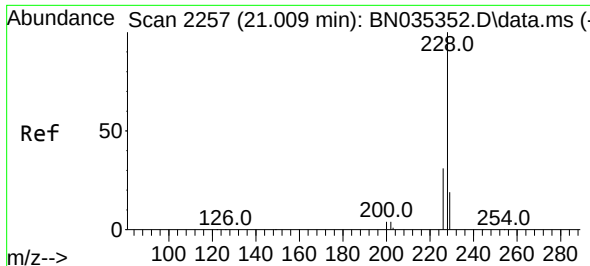
Tgt Ion:244 Resp: 7783  
 Ion Ratio Lower Upper  
 244 100  
 212 9.7 8.1 12.1  
 122 14.4 10.3 15.5



#32  
 Benzo(a)anthracene  
 Concen: 0.368 ng  
 RT: 20.920 min Scan# 2247  
 Delta R.T. -0.018 min  
 Lab File: BN035845.D  
 Acq: 26 Dec 2024 09:58

Tgt Ion:228 Resp: 12798  
 Ion Ratio Lower Upper  
 228 100  
 226 28.2 22.5 33.7  
 229 19.6 15.8 23.8

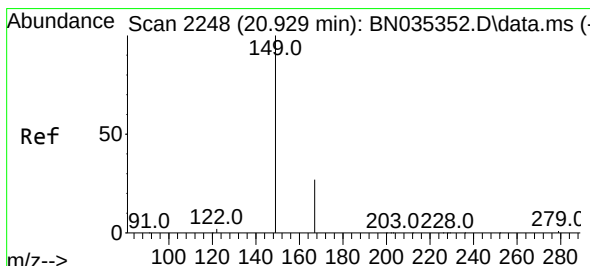
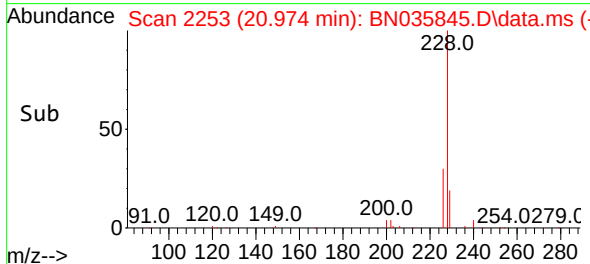
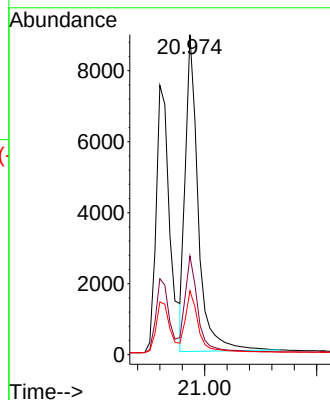
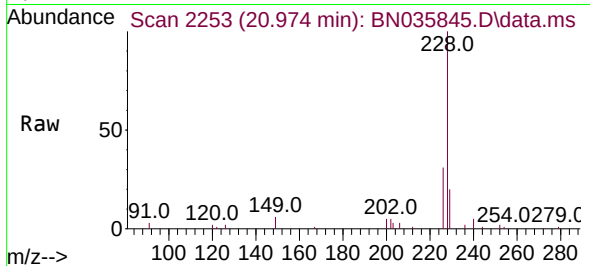




#33  
Chrysene  
Concen: 0.397 ng  
RT: 20.974 min Scan# 21  
Delta R.T. -0.018 min  
Lab File: BN035845.D  
Acq: 26 Dec 2024 09:58

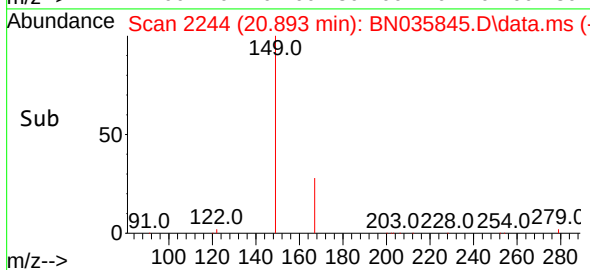
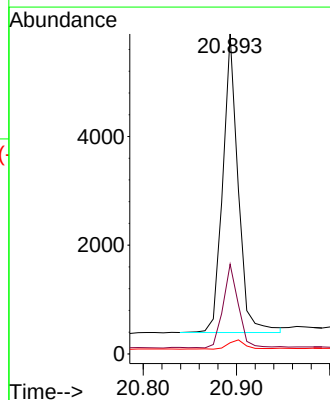
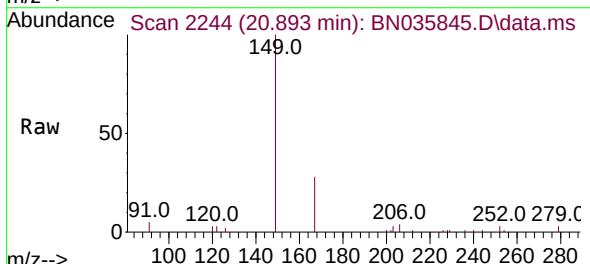
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

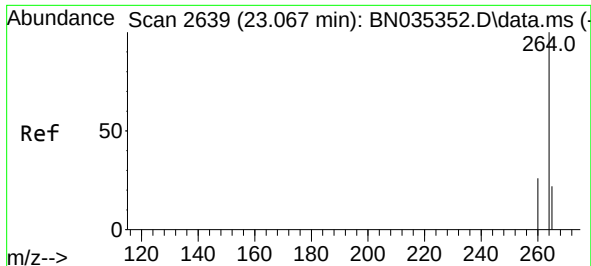
Tgt Ion:228 Resp: 14214  
Ion Ratio Lower Upper  
228 100  
226 30.9 24.6 37.0  
229 20.0 15.9 23.9



#34  
Bis(2-ethylhexyl)phthalate  
Concen: 0.458 ng  
RT: 20.893 min Scan# 2244  
Delta R.T. -0.018 min  
Lab File: BN035845.D  
Acq: 26 Dec 2024 09:58

Tgt Ion:149 Resp: 6282  
Ion Ratio Lower Upper  
149 100  
167 27.6 22.2 33.4  
279 3.4 2.7 4.1

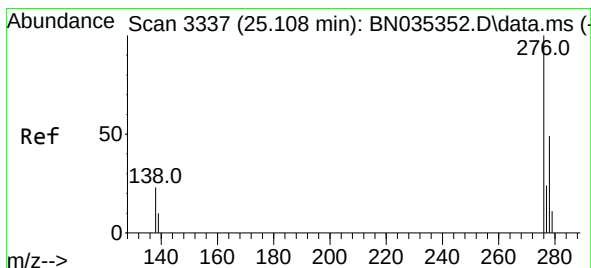
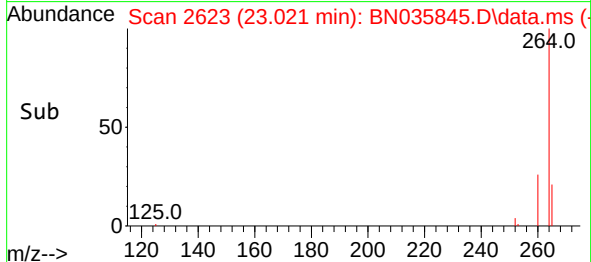
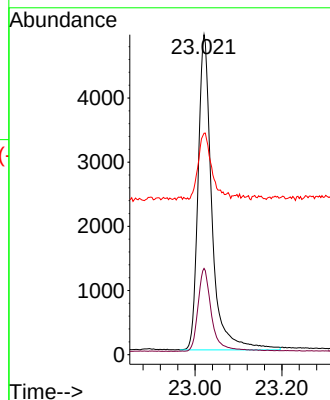
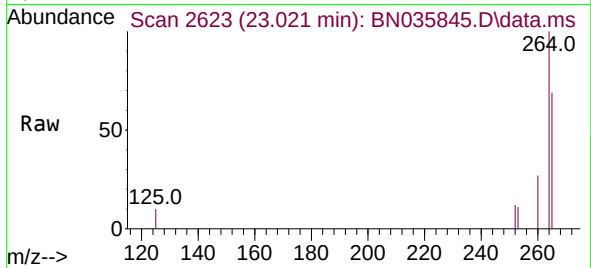




#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.021 min Scan# 2623  
Delta R.T. -0.021 min  
Lab File: BN035845.D  
Acq: 26 Dec 2024 09:58

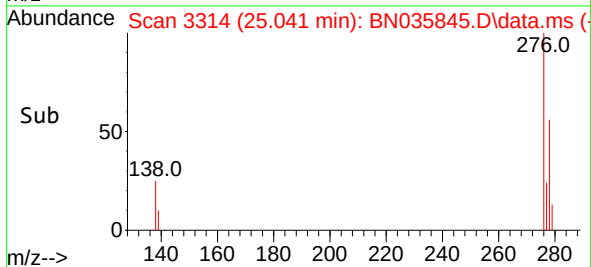
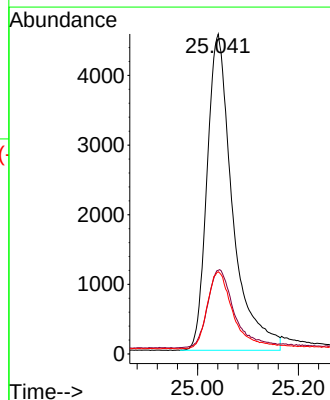
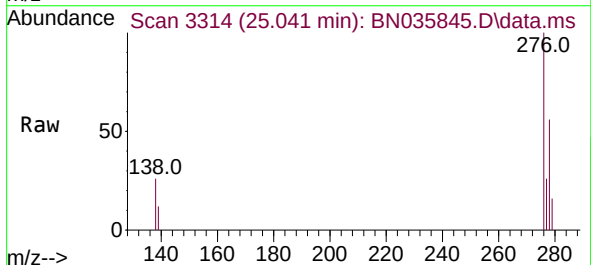
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

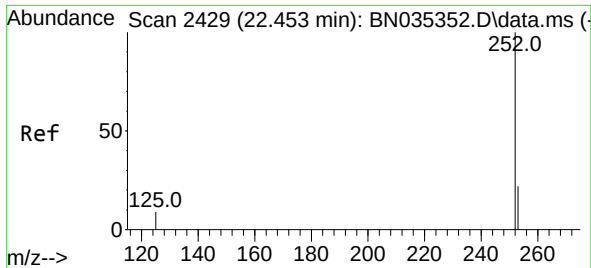
Tgt Ion:264 Resp: 10817  
Ion Ratio Lower Upper  
264 100  
260 27.0 21.4 32.2  
265 69.2 40.2 60.4#



#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.377 ng  
RT: 25.041 min Scan# 3314  
Delta R.T. -0.026 min  
Lab File: BN035845.D  
Acq: 26 Dec 2024 09:58

Tgt Ion:276 Resp: 15946  
Ion Ratio Lower Upper  
276 100  
138 26.4 19.4 29.0  
277 25.7 19.8 29.6

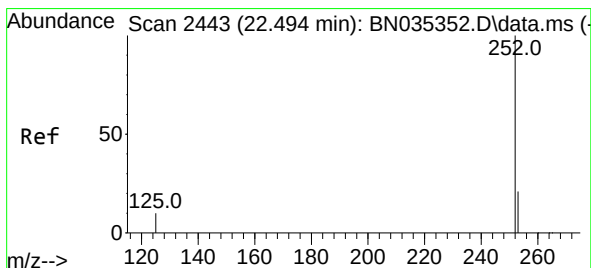
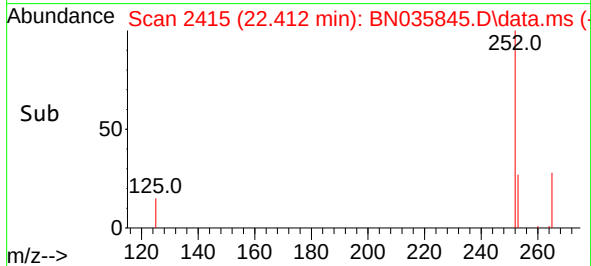
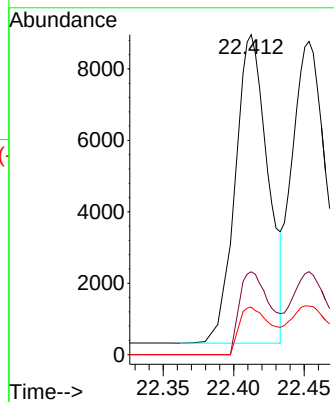
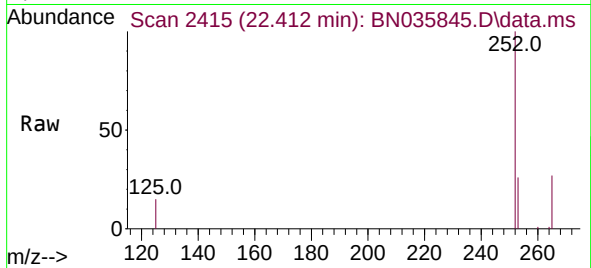




#37  
Benzo(b)fluoranthene  
Concen: 0.494 ng  
RT: 22.412 min Scan# 2415  
Delta R.T. -0.018 min  
Lab File: BN035845.D  
Acq: 26 Dec 2024 09:58

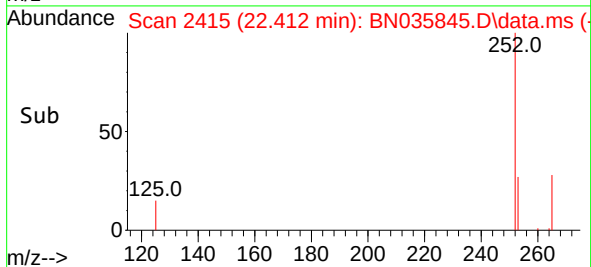
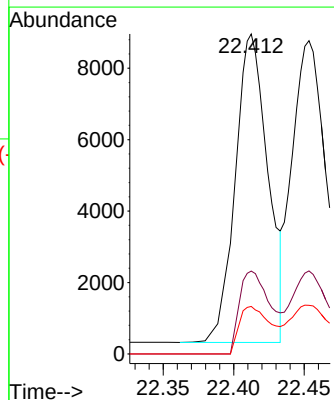
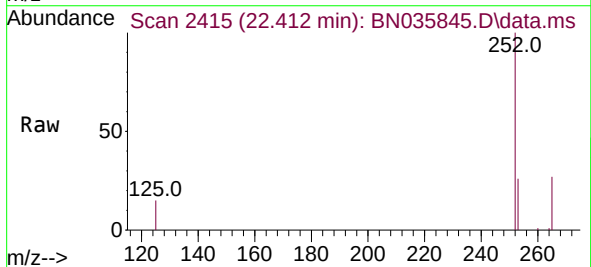
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

Tgt Ion:252 Resp: 19565  
Ion Ratio Lower Upper  
252 100  
253 25.9 19.6 29.4  
125 14.9 9.6 14.4#

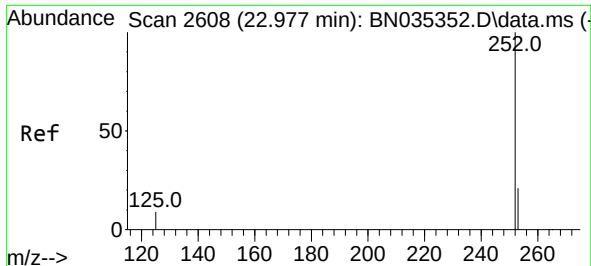


#38  
Benzo(k)fluoranthene  
Concen: 0.502 ng  
RT: 22.412 min Scan# 2415  
Delta R.T. -0.059 min  
Lab File: BN035845.D  
Acq: 26 Dec 2024 09:58

Tgt Ion:252 Resp: 19565  
Ion Ratio Lower Upper  
252 100  
253 25.9 19.5 29.3  
125 14.9 10.2 15.4







#39

Benzo(a)pyrene

Concen: 0.382 ng

RT: 22.933 min Scan# 21

Delta R.T. -0.018 min

Lab File: BN035845.D

Acq: 26 Dec 2024 09:58

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

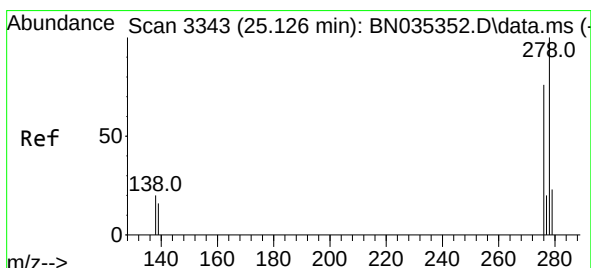
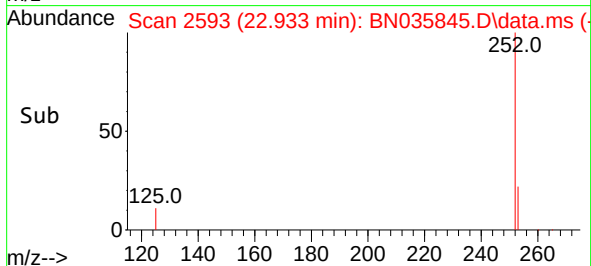
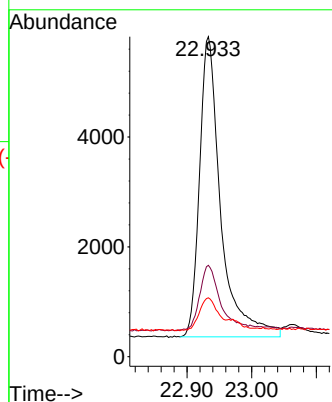
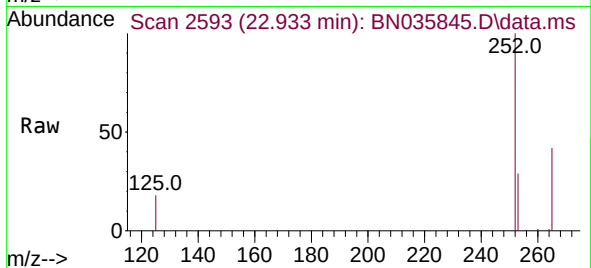
Tgt Ion:252 Resp: 12458

Ion Ratio Lower Upper

252 100

253 28.6 20.2 30.4

125 18.4 10.9 16.3#



#40

Dibenzo(a,h)anthracene

Concen: 0.380 ng

RT: 25.058 min Scan# 3320

Delta R.T. -0.024 min

Lab File: BN035845.D

Acq: 26 Dec 2024 09:58

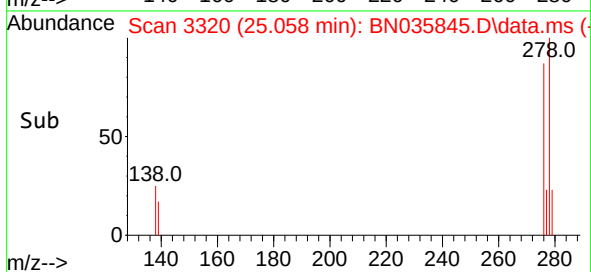
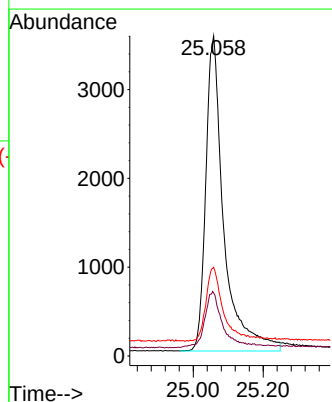
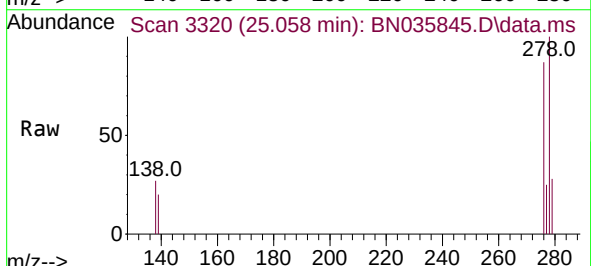
Tgt Ion:278 Resp: 12678

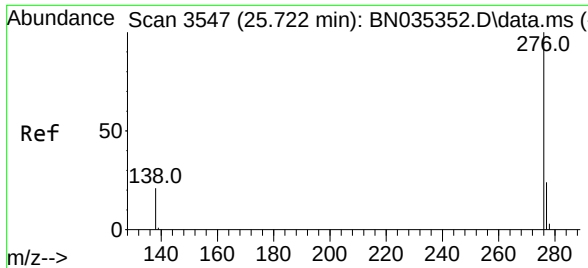
Ion Ratio Lower Upper

278 100

139 19.7 14.2 21.4

279 27.7 20.5 30.7

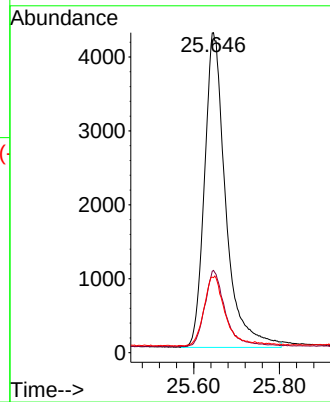
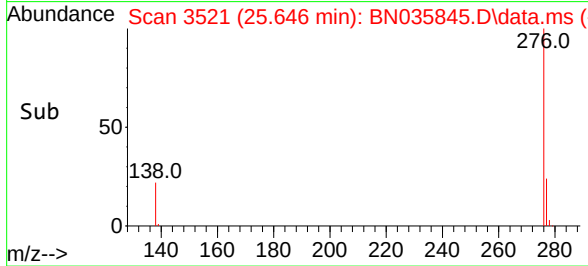
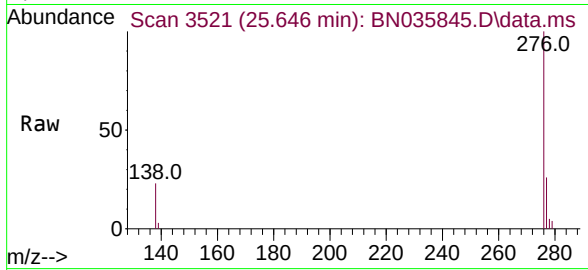




#41  
 Benzo(g,h,i)perylene  
 Concen: 0.419 ng  
 RT: 25.646 min Scan# 31  
 Delta R.T. -0.032 min  
 Lab File: BN035845.D  
 Acq: 26 Dec 2024 09:58

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 276   | Resp: | 14614 |
| Ion      | Ratio | Lower | Upper |
| 276      | 100   |       |       |
| 277      | 25.7  | 19.9  | 29.9  |
| 138      | 23.5  | 17.8  | 26.8  |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN122624\  
 Data File : BN035859.D  
 Acq On : 26 Dec 2024 18:29  
 Operator : RC/JU  
 Sample : P5284-01DL 5X  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 RW5-SP100-20241212DL

Quant Time: Dec 27 00:42:22 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Dec 19 23:06:19 2024  
 Response via : Initial Calibration

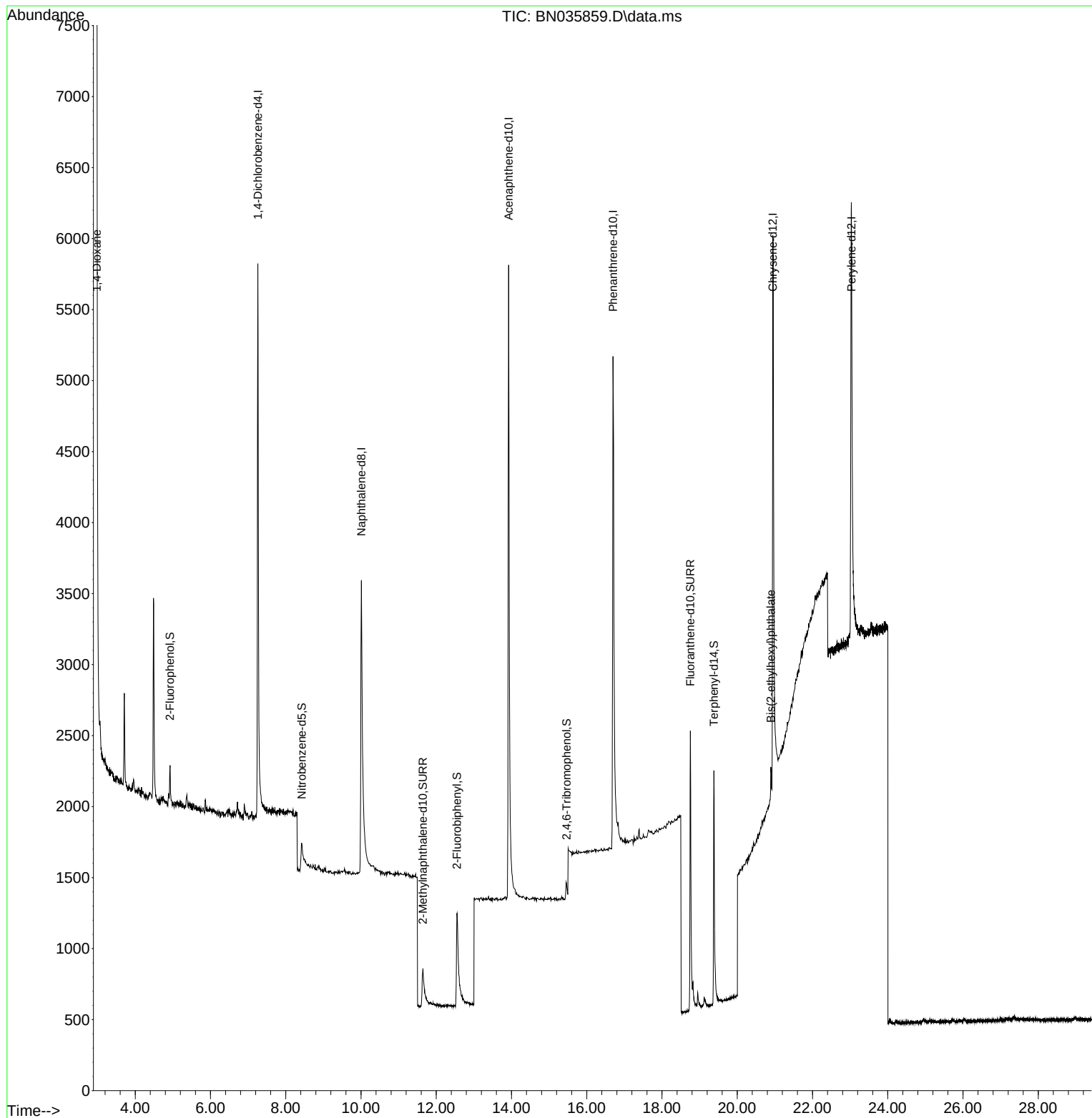
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.257  | 152  | 2451     | 0.400 | ng    | -0.01    |
| 7) Naphthalene-d8             | 10.009 | 136  | 5536     | 0.400 | ng    | -0.01    |
| 13) Acenaphthene-d10          | 13.924 | 164  | 3750     | 0.400 | ng    | -0.01    |
| 19) Phenanthrene-d10          | 16.698 | 188  | 8150     | 0.400 | ng    | # 0.00   |
| 29) Chrysene-d12              | 20.947 | 240  | 6332     | 0.400 | ng    | # 0.00   |
| 35) Perylene-d12              | 23.032 | 264  | 5817     | 0.400 | ng    | # 0.00   |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 4.924  | 112  | 244      | 0.040 | ng    | -0.01    |
| 5) Phenol-d6                  | 6.477  | 99   | 104      | 0.014 | ng    | -0.01    |
| 8) Nitrobenzene-d5            | 8.429  | 82   | 643      | 0.190 | ng    | 0.02     |
| 11) 2-Methylnaphthalene-d10   | 11.646 | 152  | 965      | 0.111 | ng    | 0.03     |
| 14) 2,4,6-Tribromophenol      | 15.464 | 330  | 185      | 0.069 | ng    | 0.01     |
| 15) 2-Fluorobiphenyl          | 12.549 | 172  | 1572     | 0.111 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 18.752 | 212  | 3305     | 0.143 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.379 | 244  | 2316     | 0.185 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
| 2) 1,4-Dioxane                | 2.974  | 88   | 6977     | 2.978 | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 20.893 | 149  | 400      | 0.046 | ng    | # 90     |
| -----                         |        |      |          |       |       |          |

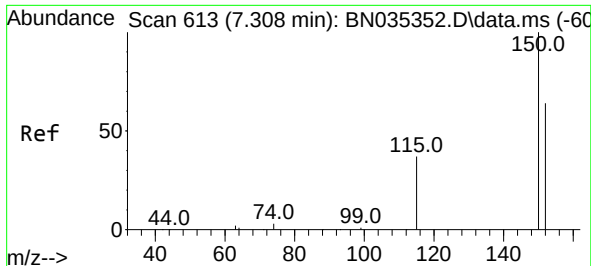
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN122624\  
Data File : BN035859.D  
Acq On : 26 Dec 2024 18:29  
Operator : RC/JU  
Sample : P5284-01DL 5X  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP100-20241212DL

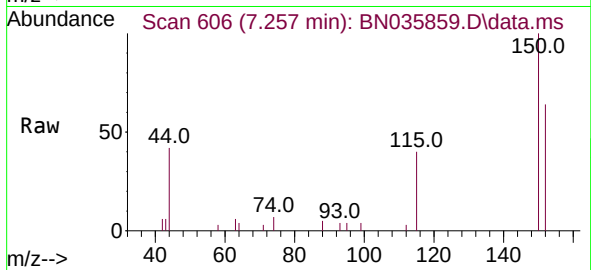
Quant Time: Dec 27 00:42:22 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Dec 19 23:06:19 2024  
Response via : Initial Calibration



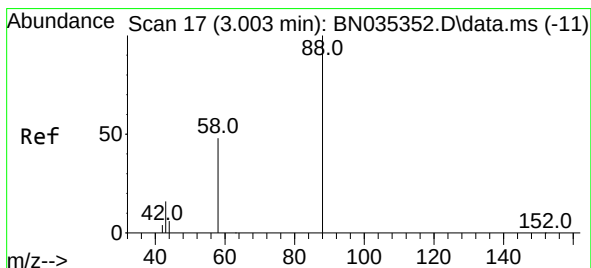
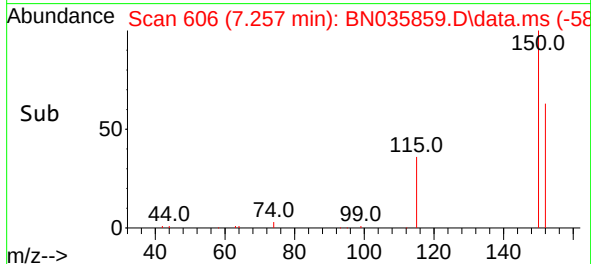
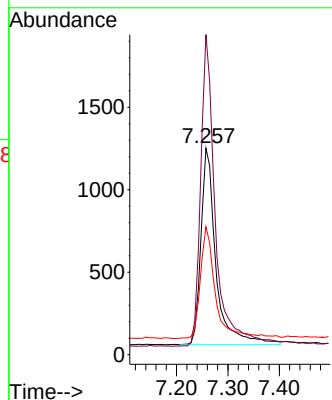


#1  
 1,4-Dichlorobenzene-d4  
 Concen: 0.400 ng  
 RT: 7.257 min Scan# 60  
 Delta R.T. -0.015 min  
 Lab File: BN035859.D  
 Acq: 26 Dec 2024 18:29

Instrument :  
 BNA\_N  
 ClientSampleId :  
 RW5-SP100-20241212DL

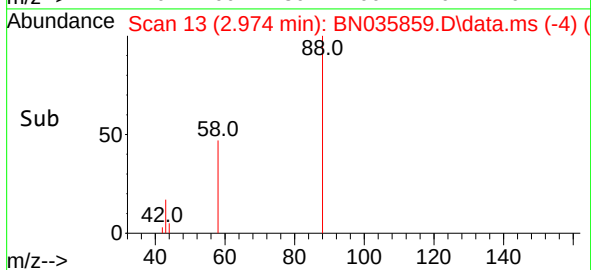
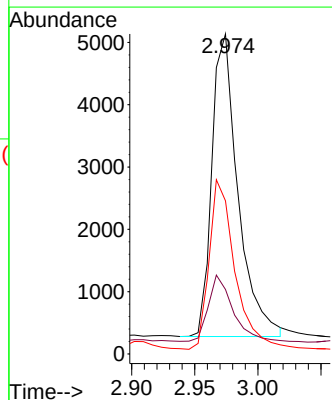
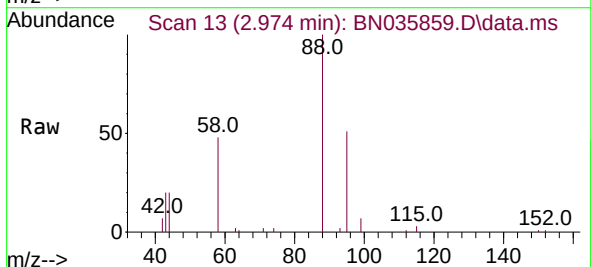


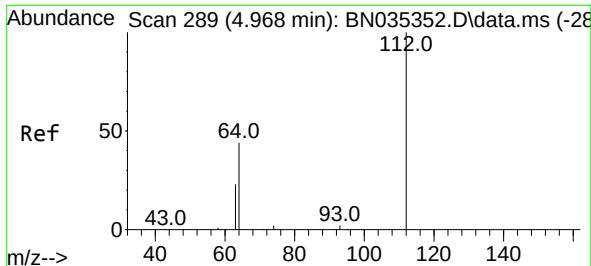
Tgt Ion:152 Resp: 2451  
 Ion Ratio Lower Upper  
 152 100  
 150 155.1 124.0 186.0  
 115 62.0 49.6 74.4



#2  
 1,4-Dioxane  
 Concen: 2.978 ng  
 RT: 2.974 min Scan# 13  
 Delta R.T. -0.008 min  
 Lab File: BN035859.D  
 Acq: 26 Dec 2024 18:29

Tgt Ion: 88 Resp: 6977  
 Ion Ratio Lower Upper  
 88 100  
 43 20.5 17.2 25.8  
 58 54.7 44.5 66.7

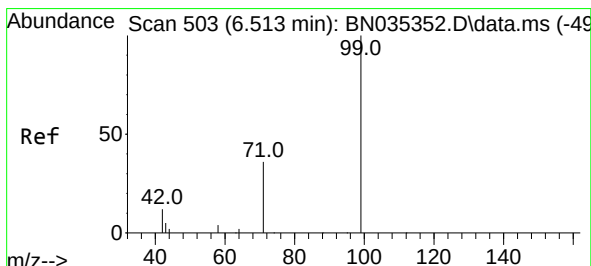
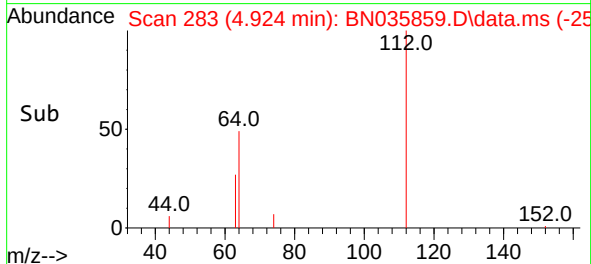
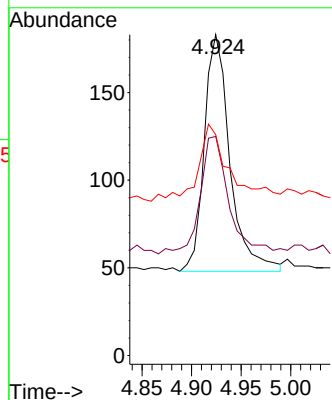
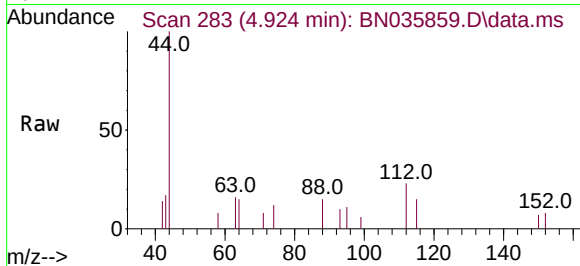




#4  
2-Fluorophenol  
Concen: 0.040 ng  
RT: 4.924 min Scan# 211  
Delta R.T. -0.015 min  
Lab File: BN035859.D  
Acq: 26 Dec 2024 18:29

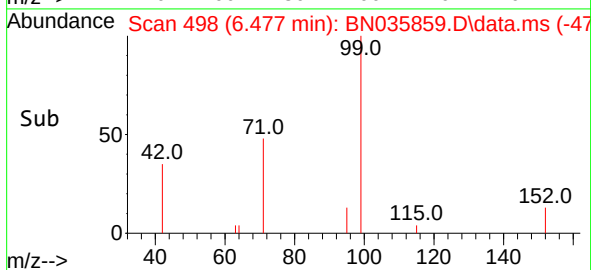
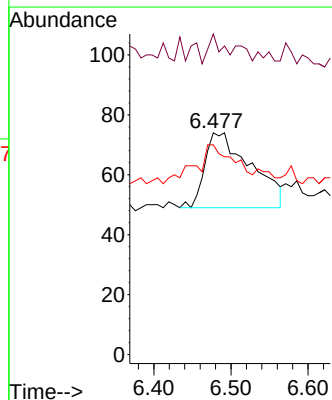
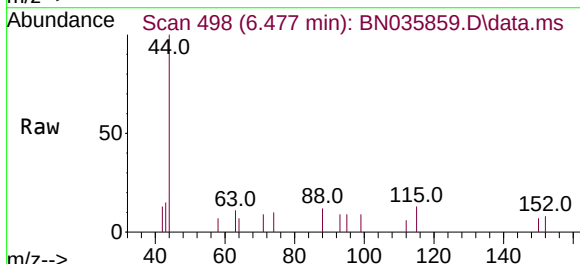
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP100-20241212DL

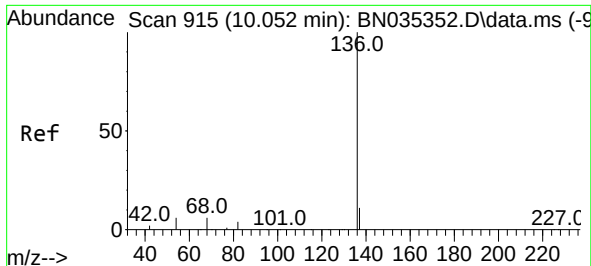
Tgt Ion:112 Resp: 244  
Ion Ratio Lower Upper  
112 100  
64 55.7 39.8 59.8  
63 40.2 21.0 31.6#



#5  
Phenol-d6  
Concen: 0.014 ng  
RT: 6.477 min Scan# 498  
Delta R.T. -0.015 min  
Lab File: BN035859.D  
Acq: 26 Dec 2024 18:29

Tgt Ion: 99 Resp: 104  
Ion Ratio Lower Upper  
99 100  
42 11.5 11.4 17.2  
71 43.3 29.3 43.9

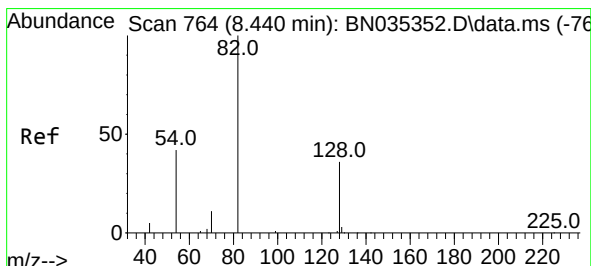
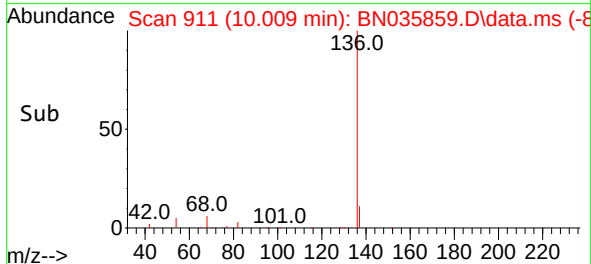
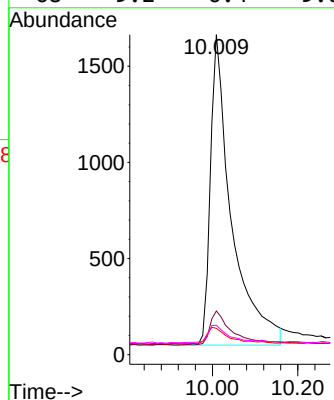
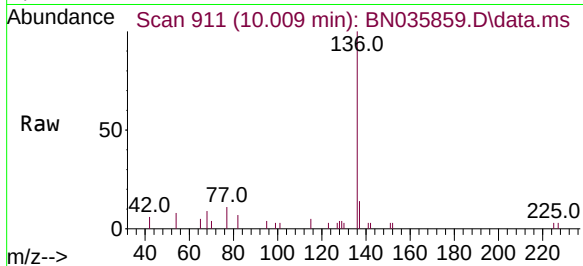




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.009 min Scan# 915  
Delta R.T. -0.011 min  
Lab File: BN035859.D  
Acq: 26 Dec 2024 18:29

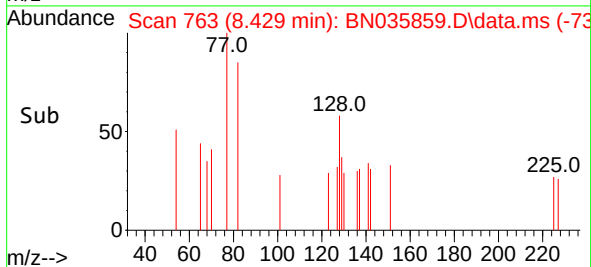
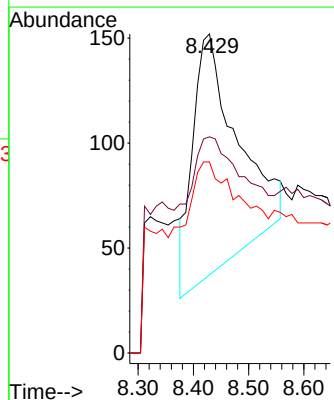
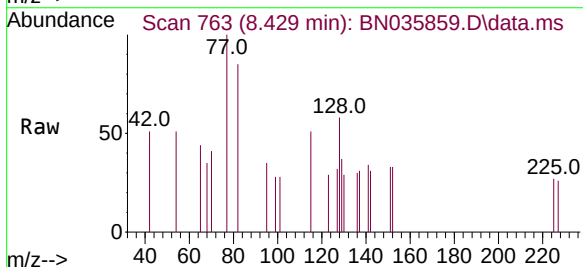
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP100-20241212DL

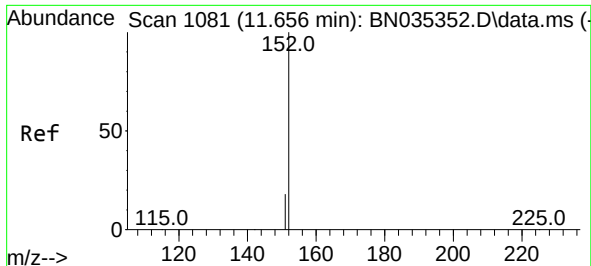
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:136 | Resp: | 5536      |
| Ion Ratio   | Lower | Upper     |
| 136         | 100   |           |
| 137         | 13.6  | 10.2 15.2 |
| 54          | 8.2   | 6.1 9.1   |
| 68          | 9.2   | 6.4 9.6   |



#8  
Nitrobenzene-d5  
Concen: 0.190 ng  
RT: 8.429 min Scan# 763  
Delta R.T. 0.021 min  
Lab File: BN035859.D  
Acq: 26 Dec 2024 18:29

|             |       |            |
|-------------|-------|------------|
| Tgt Ion: 82 | Resp: | 643        |
| Ion Ratio   | Lower | Upper      |
| 82          | 100   |            |
| 128         | 67.8  | 33.4 50.0# |
| 54          | 59.9  | 36.7 55.1# |

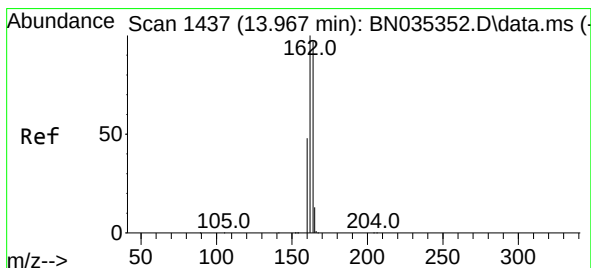
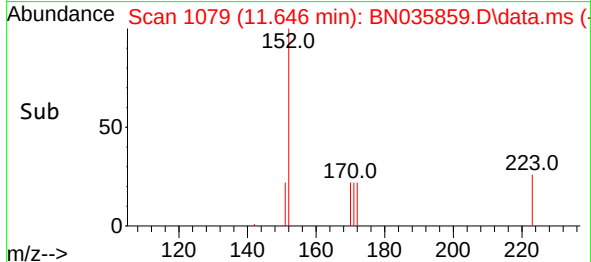
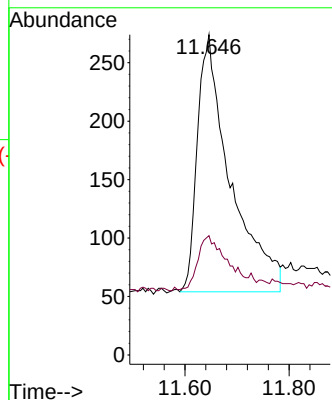
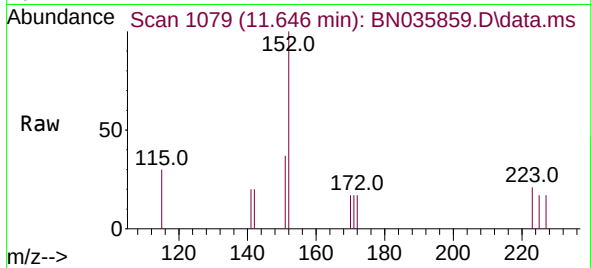




#11  
2-Methylnaphthalene-d10  
Concen: 0.111 ng  
RT: 11.646 min Scan# 1081  
Delta R.T. 0.025 min  
Lab File: BN035859.D  
Acq: 26 Dec 2024 18:29

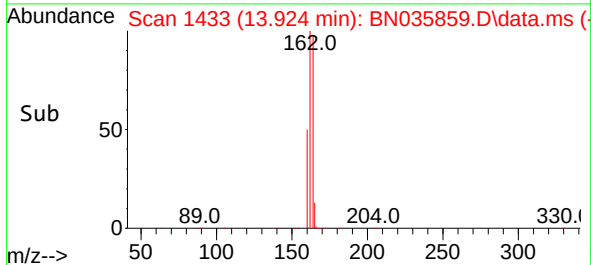
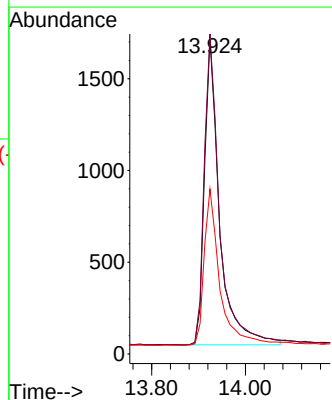
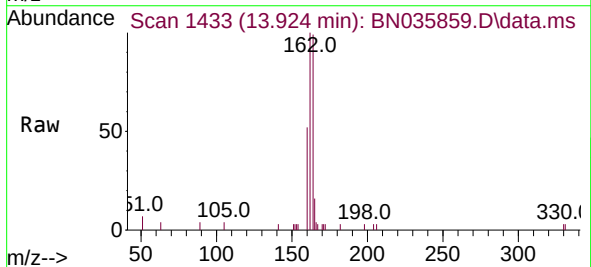
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP100-20241212DL

Tgt Ion:152 Resp: 965  
Ion Ratio Lower Upper  
152 100  
151 18.1 16.6 25.0

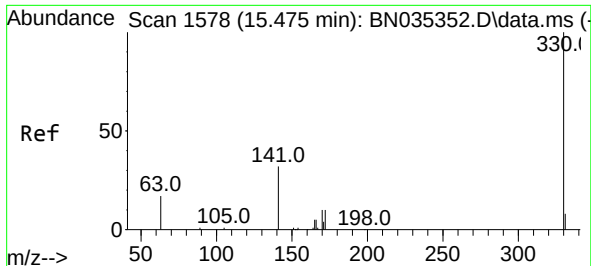


#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.924 min Scan# 1433  
Delta R.T. -0.011 min  
Lab File: BN035859.D  
Acq: 26 Dec 2024 18:29

Tgt Ion:164 Resp: 3750  
Ion Ratio Lower Upper  
164 100  
162 101.4 82.2 123.2  
160 52.3 40.1 60.1



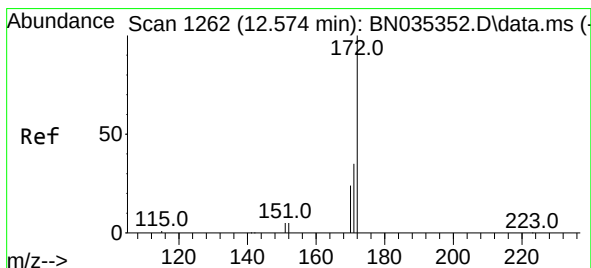
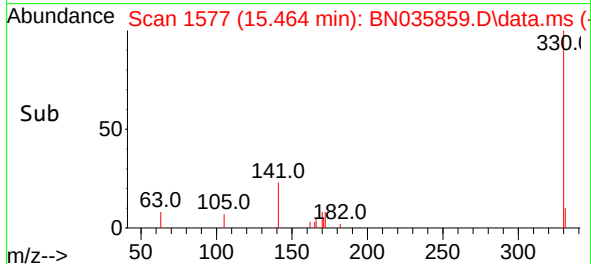
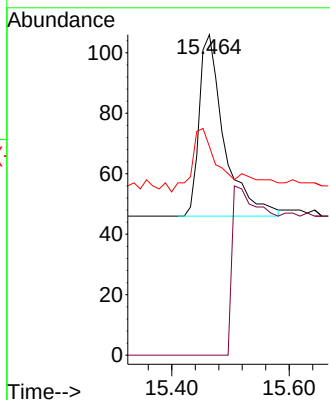
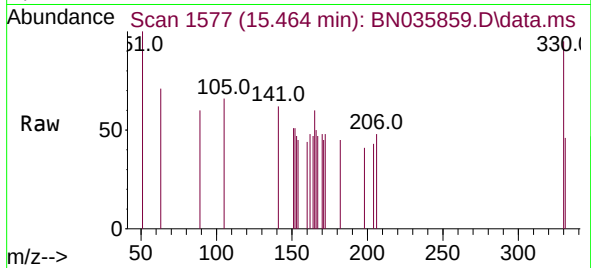




#14  
2,4,6-Tribromophenol  
Concen: 0.069 ng  
RT: 15.464 min Scan# 11  
Delta R.T. 0.011 min  
Lab File: BN035859.D  
Acq: 26 Dec 2024 18:29

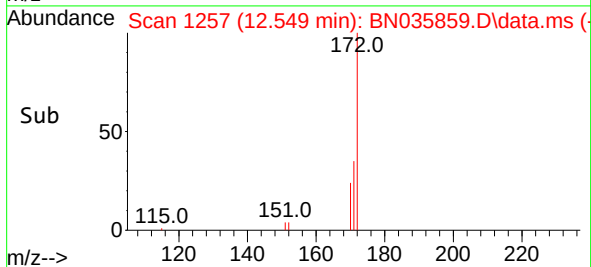
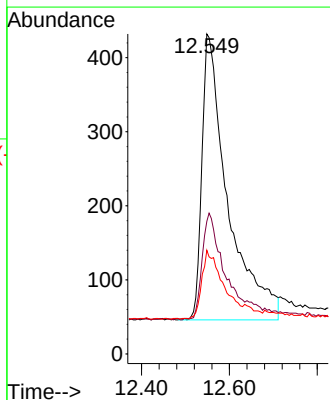
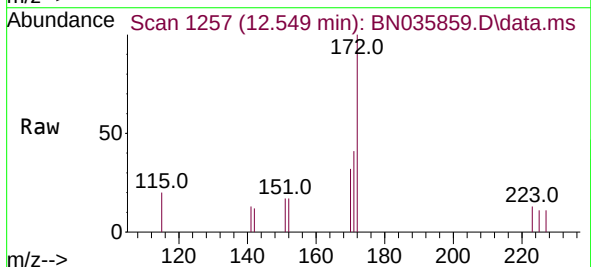
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP100-20241212DL

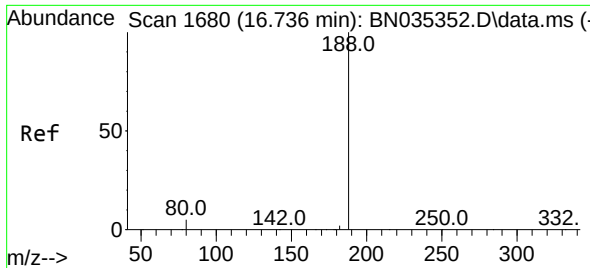
Tgt Ion:330 Resp: 185  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 32.4 26.6 40.0



#15  
2-Fluorobiphenyl  
Concen: 0.111 ng  
RT: 12.549 min Scan# 1257  
Delta R.T. 0.005 min  
Lab File: BN035859.D  
Acq: 26 Dec 2024 18:29

Tgt Ion:172 Resp: 1572  
Ion Ratio Lower Upper  
172 100  
171 41.4 29.0 43.4  
170 32.4 19.8 29.8#

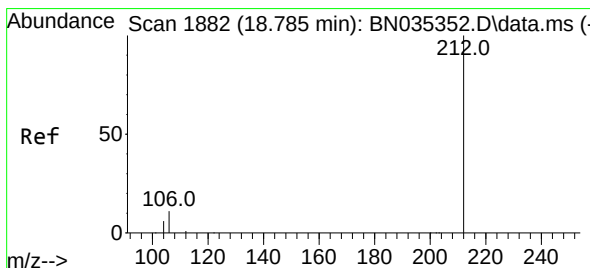
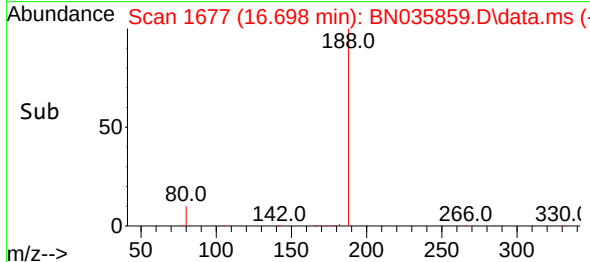
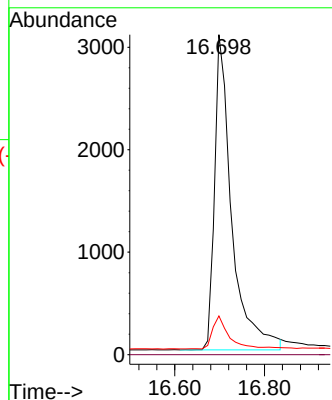
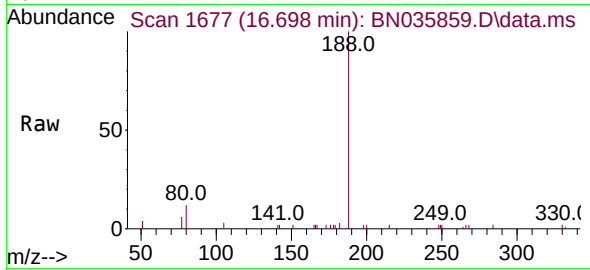




#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 16.698 min Scan# 1677  
Delta R.T. -0.000 min  
Lab File: BN035859.D  
Acq: 26 Dec 2024 18:29

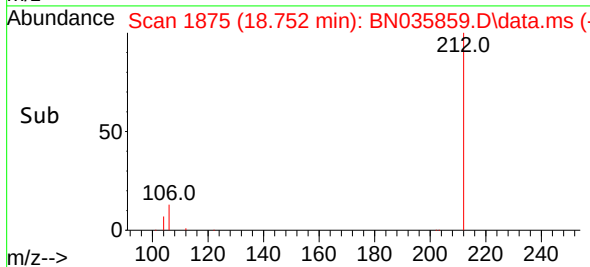
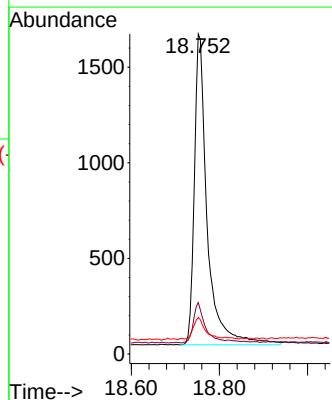
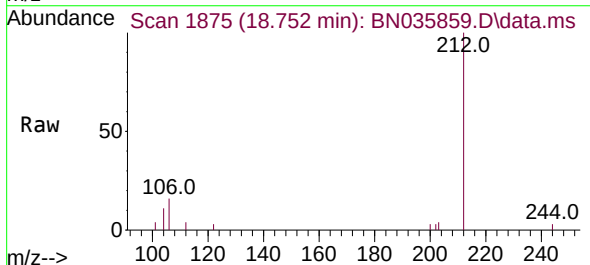
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP100-20241212DL

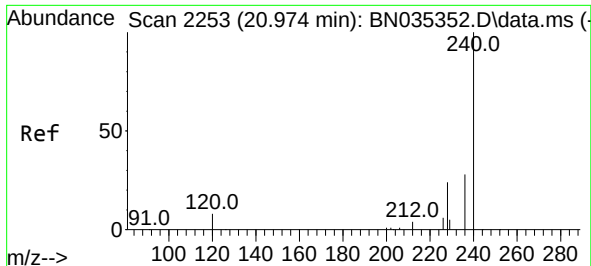
Tgt Ion:188 Resp: 8150  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 12.1 4.6 6.8#



#27  
Fluoranthene-d10  
Concen: 0.143 ng  
RT: 18.752 min Scan# 1875  
Delta R.T. -0.009 min  
Lab File: BN035859.D  
Acq: 26 Dec 2024 18:29

Tgt Ion:212 Resp: 3305  
Ion Ratio Lower Upper  
212 100  
106 11.6 9.2 13.8  
104 6.0 5.3 7.9

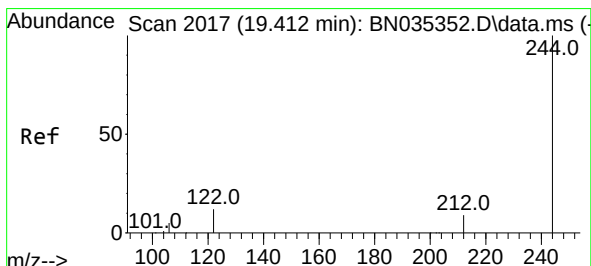
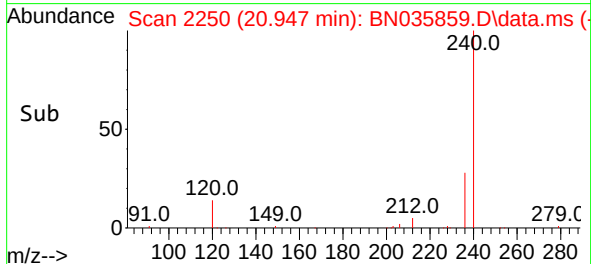
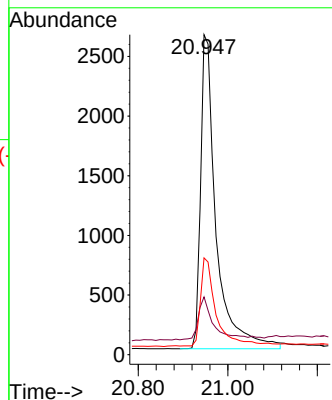
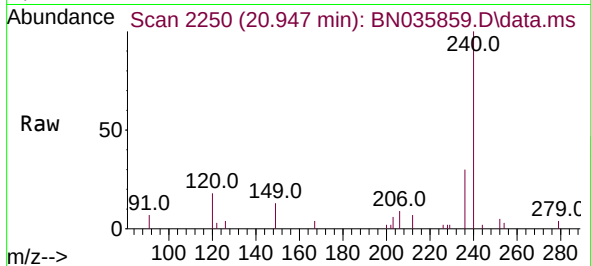




#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 20.947 min Scan# 210  
Delta R.T. -0.009 min  
Lab File: BN035859.D  
Acq: 26 Dec 2024 18:29

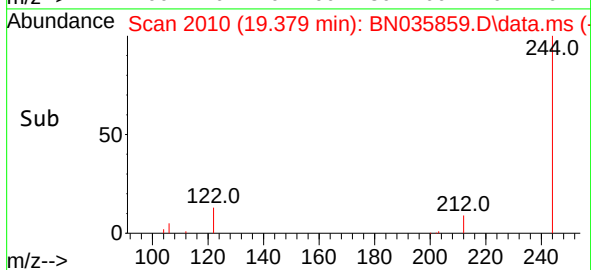
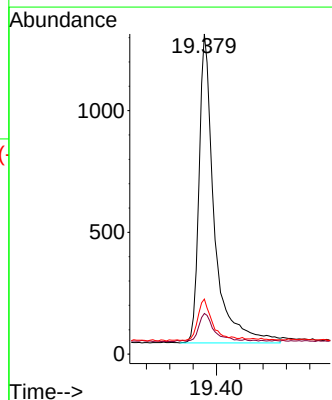
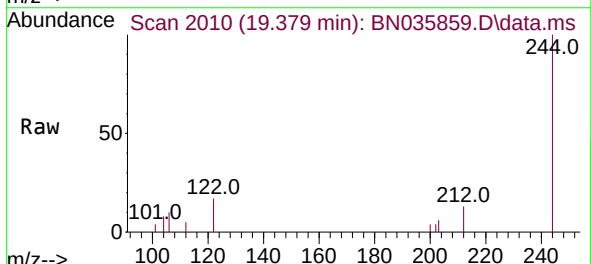
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP100-20241212DL

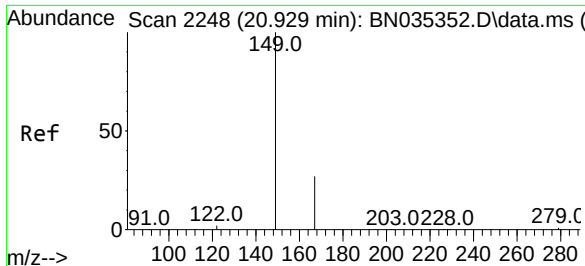
Tgt Ion:240 Resp: 6332  
Ion Ratio Lower Upper  
240 100  
120 18.0 7.9 11.9#  
236 30.2 22.9 34.3



#31  
Terphenyl-d14  
Concen: 0.185 ng  
RT: 19.379 min Scan# 2010  
Delta R.T. -0.009 min  
Lab File: BN035859.D  
Acq: 26 Dec 2024 18:29

Tgt Ion:244 Resp: 2316  
Ion Ratio Lower Upper  
244 100  
212 12.7 8.1 12.1#  
122 17.2 10.3 15.5#

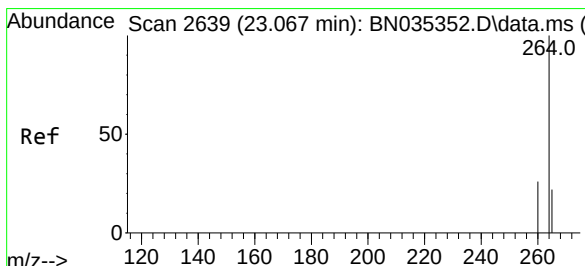
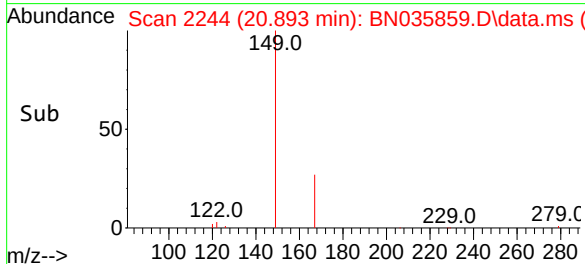
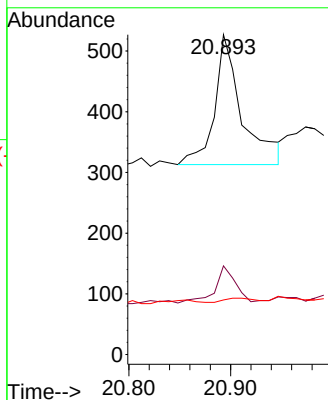
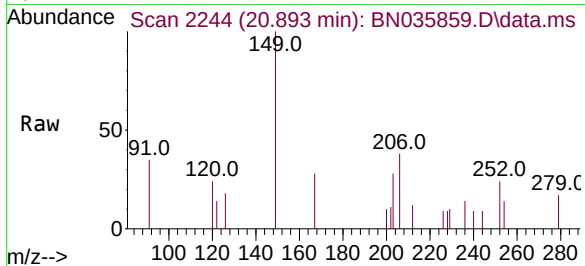




#34  
 Bis(2-ethylhexyl)phthalate  
 Concen: 0.046 ng  
 RT: 20.893 min Scan# 21  
 Delta R.T. -0.018 min  
 Lab File: BN035859.D  
 Acq: 26 Dec 2024 18:29

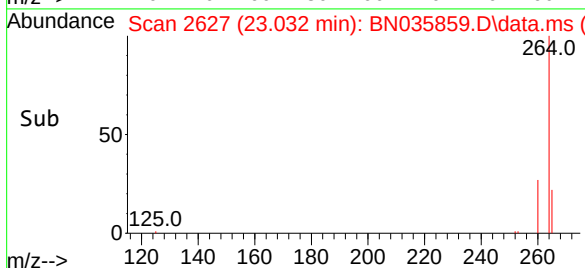
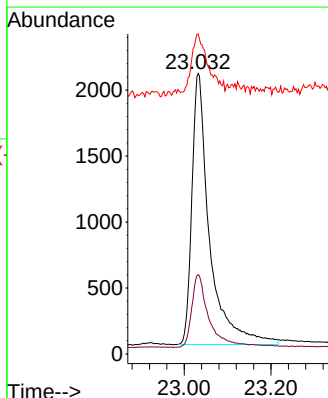
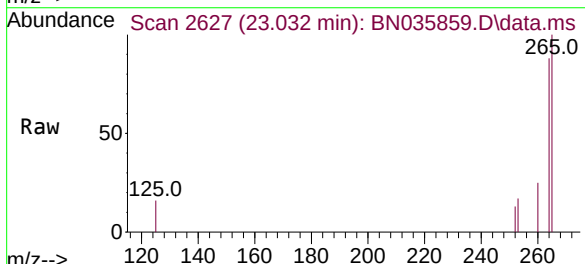
Instrument :  
 BNA\_N  
 ClientSampleId :  
 RW5-SP100-20241212DL

Tgt Ion:149 Resp: 400  
 Ion Ratio Lower Upper  
 149 100  
 167 21.8 22.2 33.4#  
 279 3.5 2.7 4.1



#35  
 Perylene-d12  
 Concen: 0.400 ng  
 RT: 23.032 min Scan# 2627  
 Delta R.T. -0.009 min  
 Lab File: BN035859.D  
 Acq: 26 Dec 2024 18:29

Tgt Ion:264 Resp: 5817  
 Ion Ratio Lower Upper  
 264 100  
 260 28.3 21.4 32.2  
 265 114.1 40.2 60.4#



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN122624\  
 Data File : BN035861.D  
 Acq On : 26 Dec 2024 19:41  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4EC

Quant Time: Dec 27 00:42:36 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Dec 19 23:06:19 2024  
 Response via : Initial Calibration

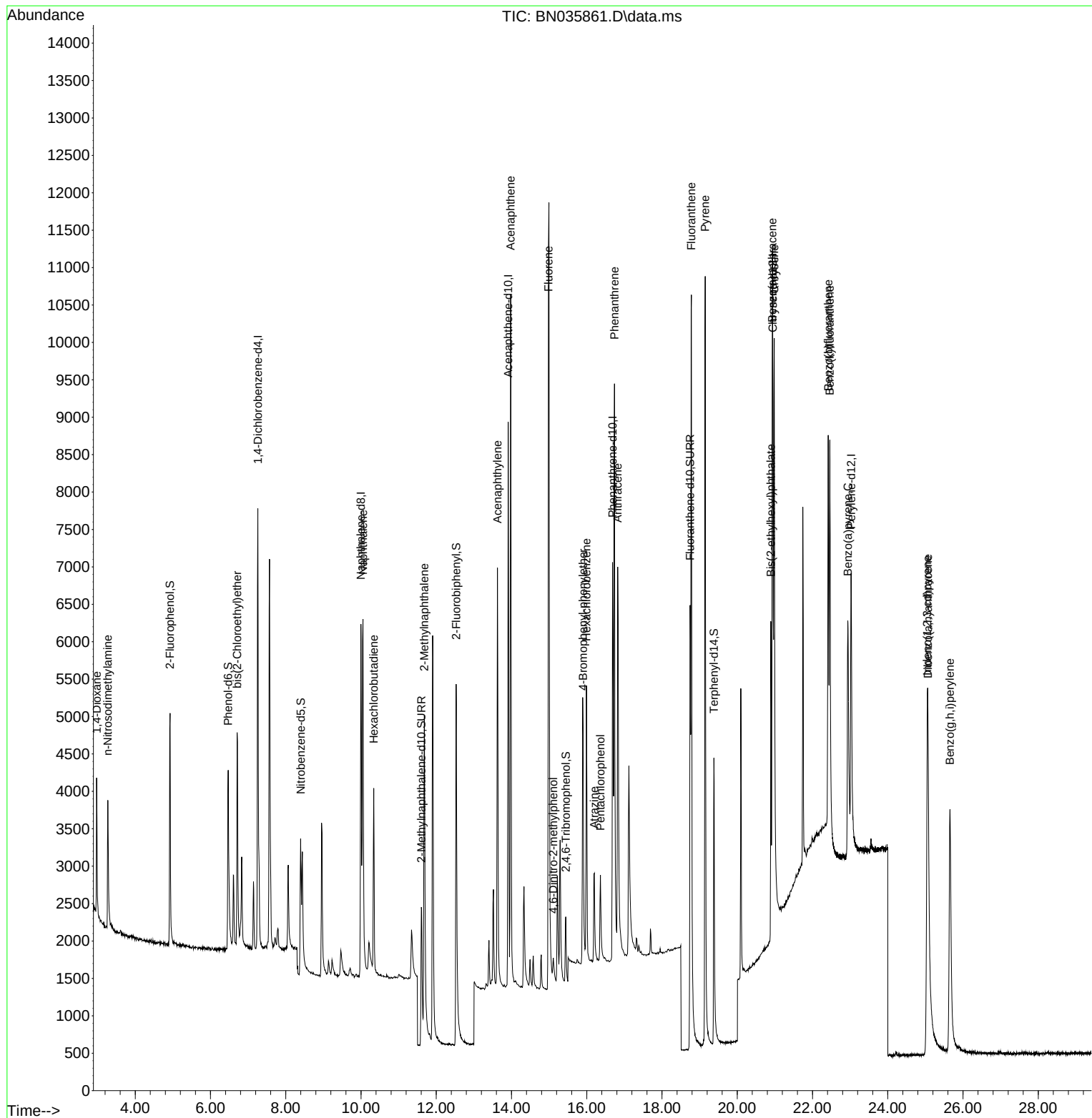
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.257  | 152  | 3087     | 0.400 | ng    | -0.01    |
| 7) Naphthalene-d8             | 9.999  | 136  | 7239     | 0.400 | ng    | -0.02    |
| 13) Acenaphthene-d10          | 13.914 | 164  | 4472     | 0.400 | ng    | -0.02    |
| 19) Phenanthrene-d10          | 16.686 | 188  | 9373     | 0.400 | ng    | #-0.01   |
| 29) Chrysene-d12              | 20.947 | 240  | 6021     | 0.400 | ng    | # 0.00   |
| 35) Perylene-d12              | 23.026 | 264  | 5699     | 0.400 | ng    | #-0.01   |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 4.924  | 112  | 2874     | 0.372 | ng    | -0.01    |
| 5) Phenol-d6                  | 6.470  | 99   | 3155     | 0.340 | ng    | -0.02    |
| 8) Nitrobenzene-d5            | 8.397  | 82   | 2397     | 0.542 | ng    | -0.01    |
| 11) 2-Methylnaphthalene-d10   | 11.605 | 152  | 3987     | 0.352 | ng    | -0.02    |
| 14) 2,4,6-Tribromophenol      | 15.443 | 330  | 1008     | 0.318 | ng    | -0.01    |
| 15) 2-Fluorobiphenyl          | 12.528 | 172  | 6619     | 0.392 | ng    | -0.02    |
| 27) Fluoranthene-d10          | 18.747 | 212  | 8643     | 0.325 | ng    | -0.01    |
| 31) Terphenyl-d14             | 19.379 | 244  | 5407     | 0.455 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
|                               |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 2.974  | 88   | 1215     | 0.412 | ng    | 96       |
| 3) n-Nitrosodimethylamine     | 3.271  | 42   | 1021     | 0.415 | ng    | # 90     |
| 6) bis(2-Chloroethyl)ether    | 6.708  | 93   | 2725     | 0.349 | ng    | 98       |
| 9) Naphthalene                | 10.052 | 128  | 7516     | 0.394 | ng    | 100      |
| 10) Hexachlorobutadiene       | 10.340 | 225  | 1992     | 0.452 | ng    | # 99     |
| 12) 2-Methylnaphthalene       | 11.682 | 142  | 4745     | 0.347 | ng    | 99       |
| 16) Acenaphthylene            | 13.625 | 152  | 6923     | 0.369 | ng    | 100      |
| 17) Acenaphthene              | 13.978 | 154  | 4776     | 0.383 | ng    | 99       |
| 18) Fluorene                  | 14.983 | 166  | 6478     | 0.363 | ng    | 99       |
| 20) 4,6-Dinitro-2-methylph... | 15.111 | 198  | 453      | 0.492 | ng    | # 67     |
| 21) 4-Bromophenyl-phenylether | 15.904 | 248  | 2071     | 0.378 | ng    | # 96     |
| 22) Hexachlorobenzene         | 15.991 | 284  | 3015     | 0.468 | ng    | 98       |
| 23) Atrazine                  | 16.202 | 200  | 1507     | 0.386 | ng    | 94       |
| 24) Pentachlorophenol         | 16.363 | 266  | 846      | 0.302 | ng    | # 84     |
| 25) Phenanthrene              | 16.736 | 178  | 9697     | 0.377 | ng    | 100      |
| 26) Anthracene                | 16.822 | 178  | 8100     | 0.348 | ng    | 99       |
| 28) Fluoranthene              | 18.780 | 202  | 11145    | 0.321 | ng    | 99       |
| 30) Pyrene                    | 19.147 | 202  | 11492    | 0.517 | ng    | 99       |
| 32) Benzo(a)anthracene        | 20.929 | 228  | 6901     | 0.328 | ng    | 99       |
| 33) Chrysene                  | 20.983 | 228  | 9578     | 0.441 | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 20.893 | 149  | 4069     | 0.489 | ng    | 99       |
| 36) Indeno(1,2,3-cd)pyrene    | 25.050 | 276  | 9030     | 0.405 | ng    | 98       |
| 37) Benzo(b)fluoranthene      | 22.418 | 252  | 11803    | 0.566 | ng    | # 92     |
| 38) Benzo(k)fluoranthene      | 22.459 | 252  | 9638     | 0.470 | ng    | # 90     |
| 39) Benzo(a)pyrene            | 22.939 | 252  | 6641     | 0.387 | ng    | # 82     |
| 40) Dibenzo(a,h)anthracene    | 25.070 | 278  | 6633     | 0.377 | ng    | # 91     |
| 41) Benzo(g,h,i)perylene      | 25.652 | 276  | 8300     | 0.452 | ng    | 95       |
| -----                         |        |      |          |       |       |          |

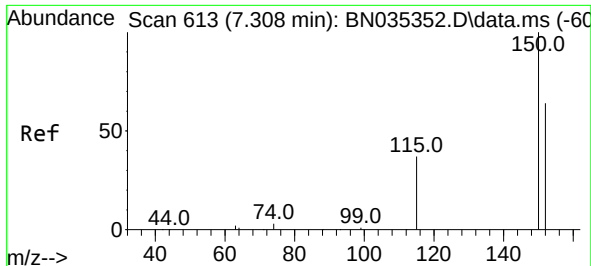
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN122624\  
Data File : BN035861.D  
Acq On : 26 Dec 2024 19:41  
Operator : RC/JU  
Sample : SSTDCCC0.4  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

Quant Time: Dec 27 00:42:36 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Dec 19 23:06:19 2024  
Response via : Initial Calibration

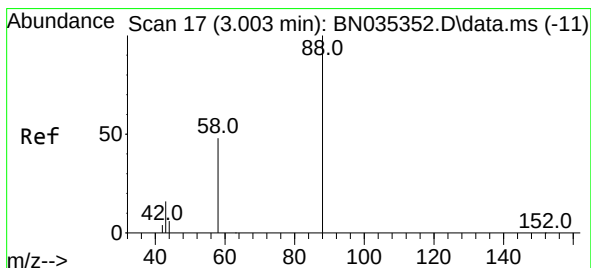
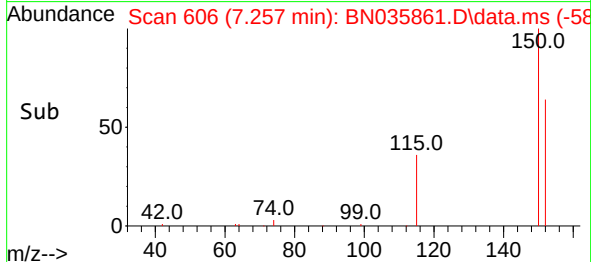
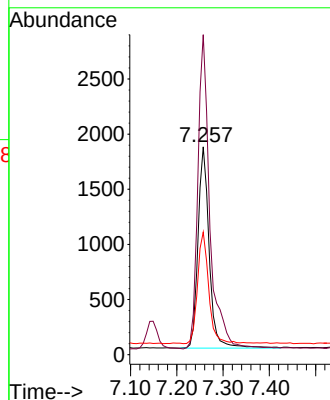
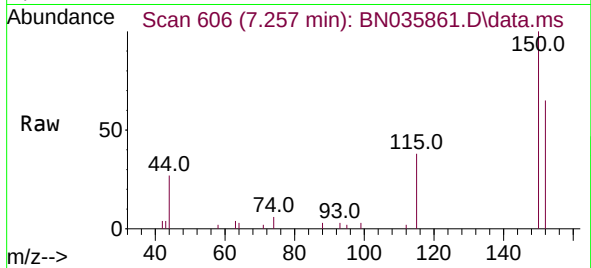




#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.257 min Scan# 61  
Delta R.T. -0.015 min  
Lab File: BN035861.D  
Acq: 26 Dec 2024 19:41

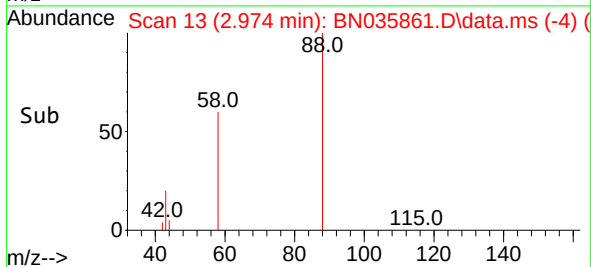
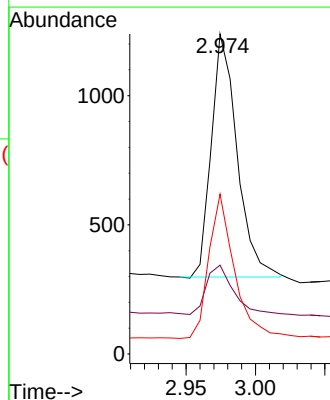
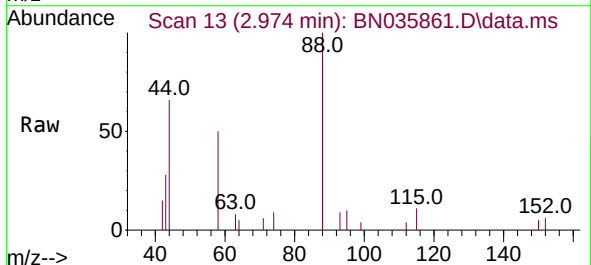
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

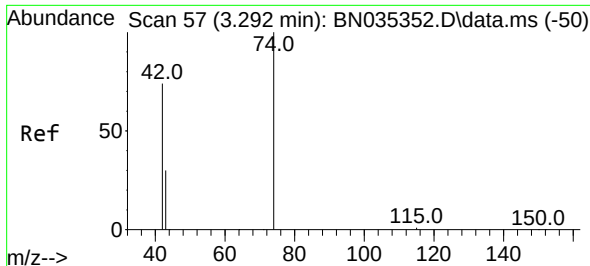
Tgt Ion:152 Resp: 3087  
Ion Ratio Lower Upper  
152 100  
150 154.0 124.0 186.0  
115 58.9 49.6 74.4



#2  
1,4-Dioxane  
Concen: 0.412 ng  
RT: 2.974 min Scan# 13  
Delta R.T. -0.008 min  
Lab File: BN035861.D  
Acq: 26 Dec 2024 19:41

Tgt Ion: 88 Resp: 1215  
Ion Ratio Lower Upper  
88 100  
43 20.1 17.2 25.8  
58 59.1 44.5 66.7

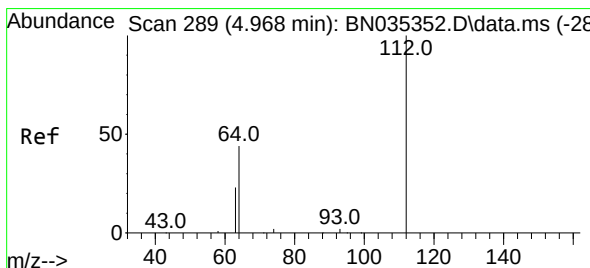
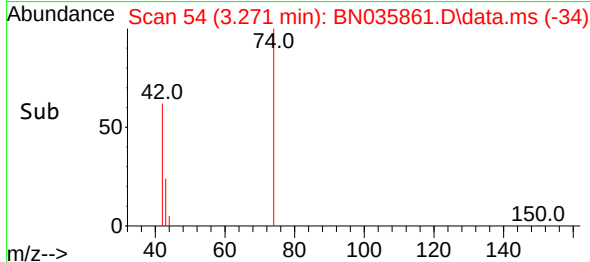
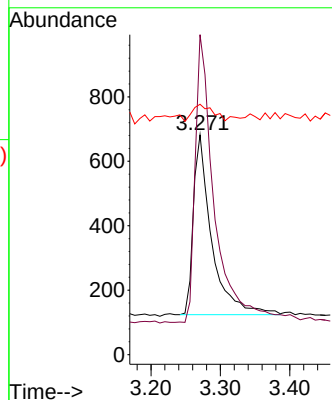
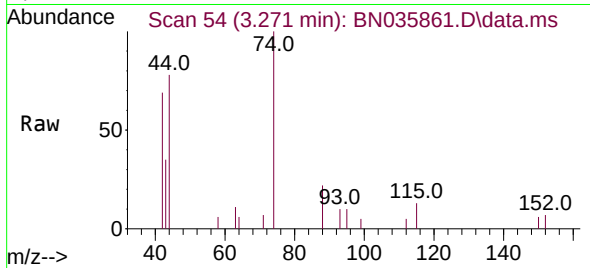




#3  
n-Nitrosodimethylamine  
Concen: 0.415 ng  
RT: 3.271 min Scan# 54  
Delta R.T. -0.007 min  
Lab File: BN035861.D  
Acq: 26 Dec 2024 19:41

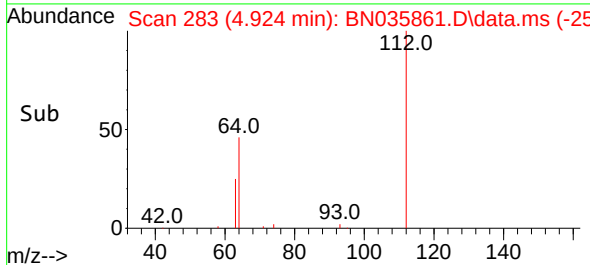
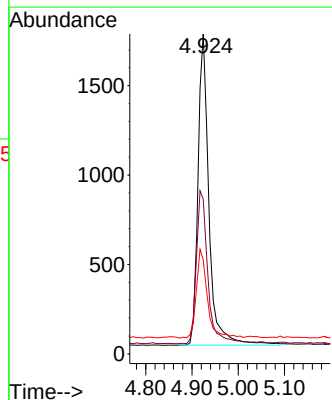
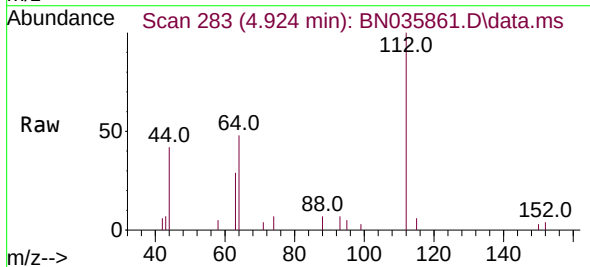
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

Tgt Ion: 42 Resp: 1021  
Ion Ratio Lower Upper  
42 100  
74 169.1 124.9 187.3  
44 10.6 2.2 3.4#

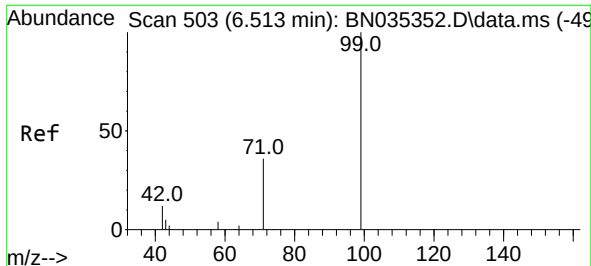


#4  
2-Fluorophenol  
Concen: 0.372 ng  
RT: 4.924 min Scan# 283  
Delta R.T. -0.015 min  
Lab File: BN035861.D  
Acq: 26 Dec 2024 19:41

Tgt Ion: 112 Resp: 2874  
Ion Ratio Lower Upper  
112 100  
64 51.6 39.8 59.8  
63 28.9 21.0 31.6







#5

Phenol-d6

Concen: 0.340 ng

RT: 6.470 min Scan# 497

Delta R.T. -0.022 min

Lab File: BN035861.D

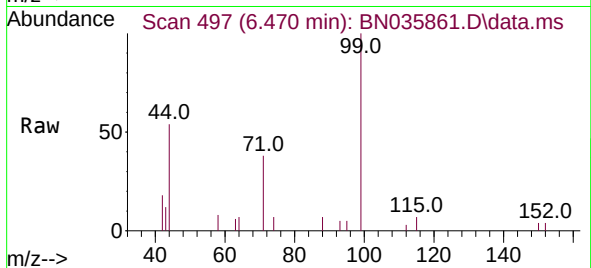
Acq: 26 Dec 2024 19:41

Instrument :

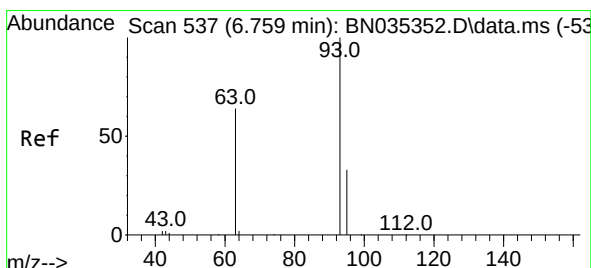
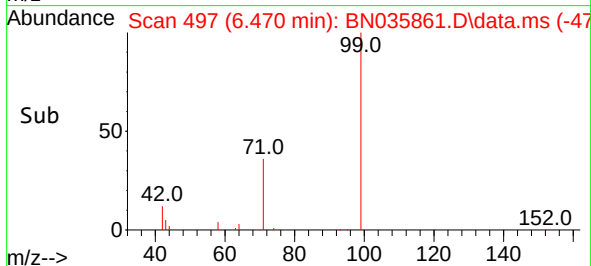
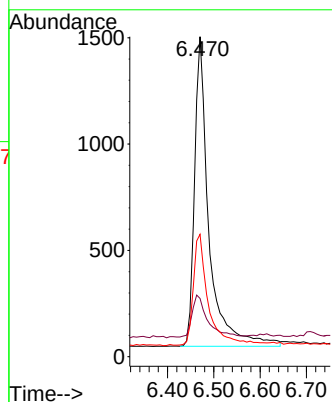
BNA\_N

ClientSampleId :

SSTDCCC0.4EC



| Tgt Ion: | 99   | Ratio | 100  | Lower | Upper |
|----------|------|-------|------|-------|-------|
| 99       | 100  |       |      |       |       |
| 42       | 14.5 |       | 11.4 | 17.2  |       |
| 71       | 37.3 |       | 29.3 | 43.9  |       |



#6

bis(2-Chloroethyl)ether

Concen: 0.349 ng

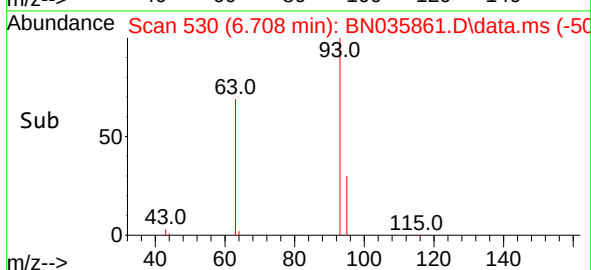
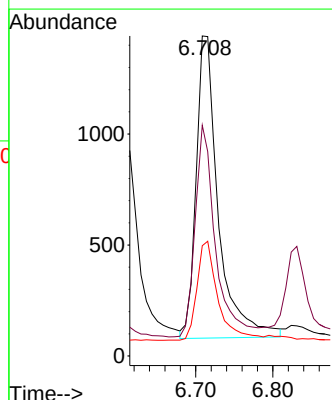
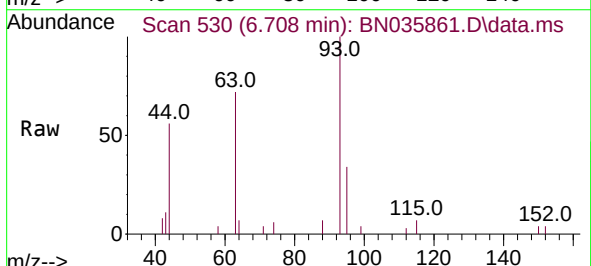
RT: 6.708 min Scan# 530

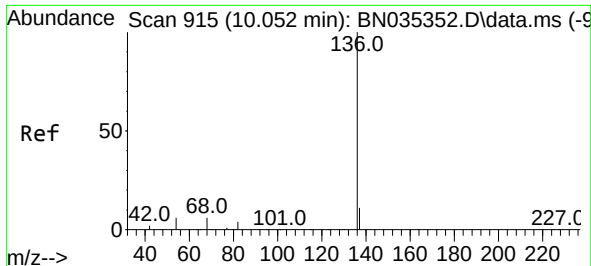
Delta R.T. -0.022 min

Lab File: BN035861.D

Acq: 26 Dec 2024 19:41

| Tgt Ion: | 93   | Ratio | 100  | Lower | Upper |
|----------|------|-------|------|-------|-------|
| 93       | 100  |       |      |       |       |
| 63       | 64.1 |       | 50.4 | 75.6  |       |
| 95       | 31.0 |       | 25.7 | 38.5  |       |

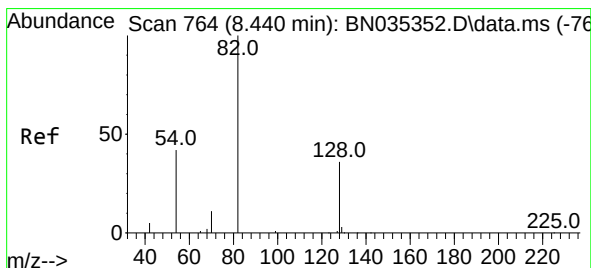
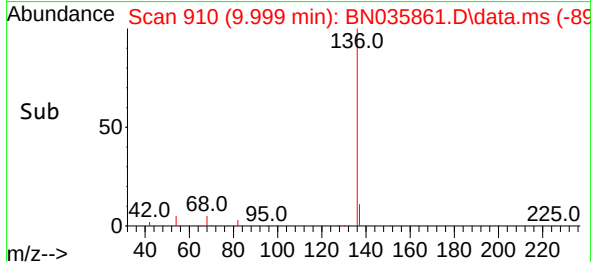
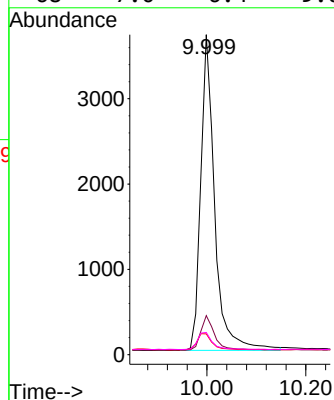
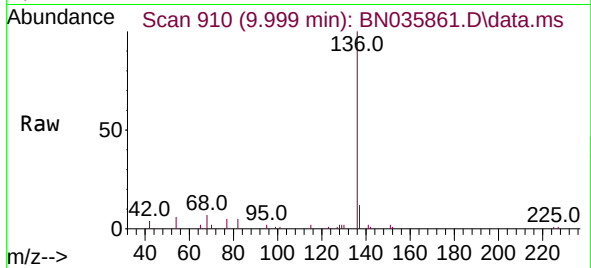




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 9.999 min Scan# 915  
Delta R.T. -0.021 min  
Lab File: BN035861.D  
Acq: 26 Dec 2024 19:41

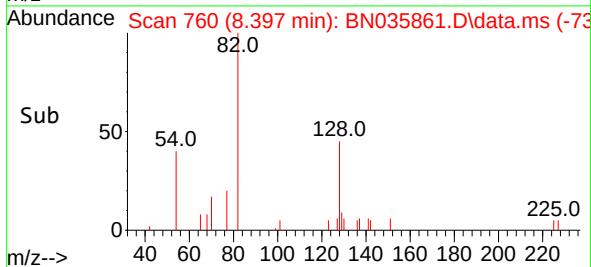
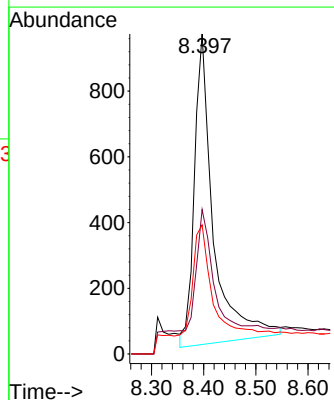
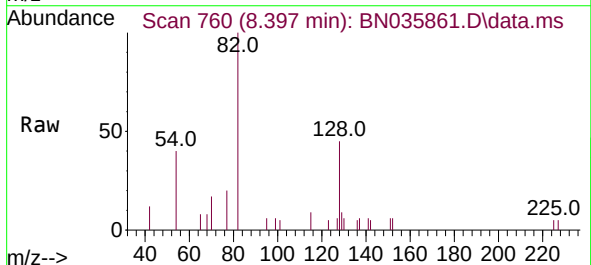
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

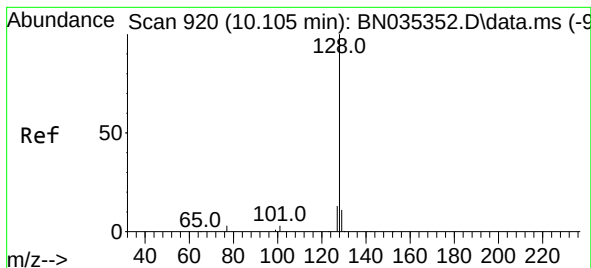
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 7239  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 12.2  | 10.2  | 15.2  |
| 54       | 6.5   | 6.1   | 9.1   |
| 68       | 7.0   | 6.4   | 9.6   |



#8  
Nitrobenzene-d5  
Concen: 0.542 ng  
RT: 8.397 min Scan# 760  
Delta R.T. -0.011 min  
Lab File: BN035861.D  
Acq: 26 Dec 2024 19:41

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 2397  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 45.2  | 33.4  | 50.0  |
| 54       | 40.3  | 36.7  | 55.1  |





#9

Naphthalene

Concen: 0.394 ng

RT: 10.052 min Scan# 915

Delta R.T. -0.011 min

Lab File: BN035861.D

Acq: 26 Dec 2024 19:41

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC

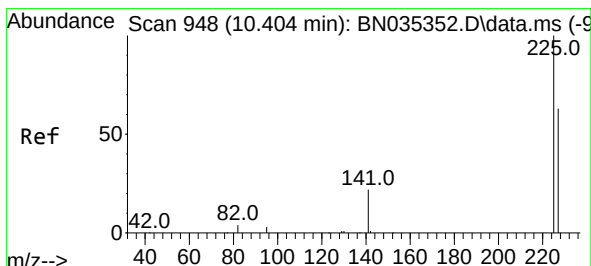
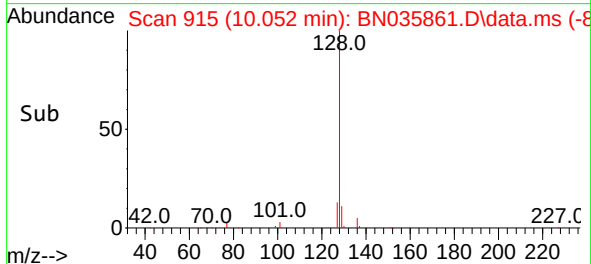
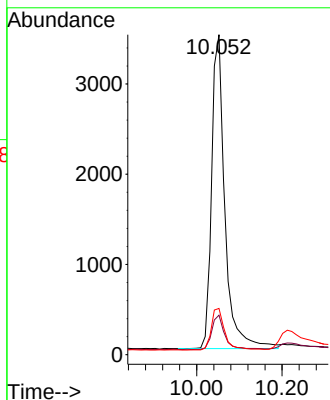
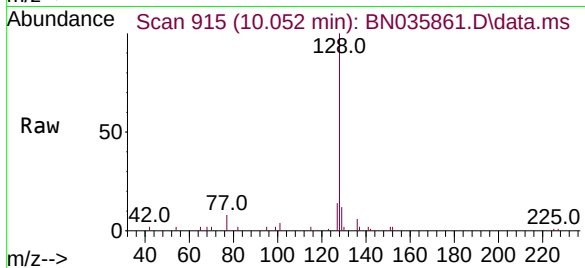
Tgt Ion:128 Resp: 7516

Ion Ratio Lower Upper

128 100

129 12.4 9.8 14.6

127 14.5 11.4 17.2



#10

Hexachlorobutadiene

Concen: 0.452 ng

RT: 10.340 min Scan# 942

Delta R.T. -0.021 min

Lab File: BN035861.D

Acq: 26 Dec 2024 19:41

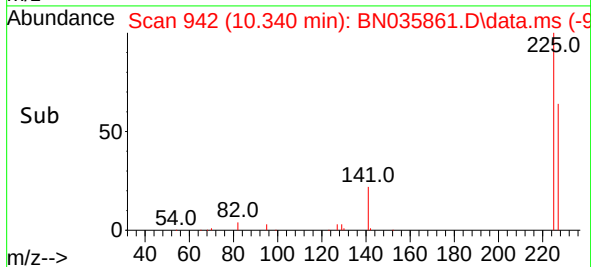
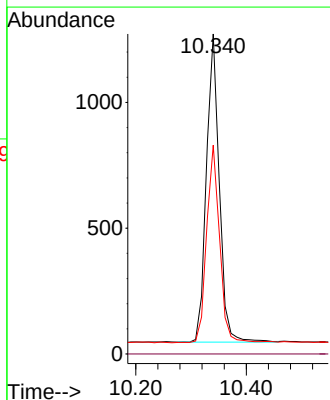
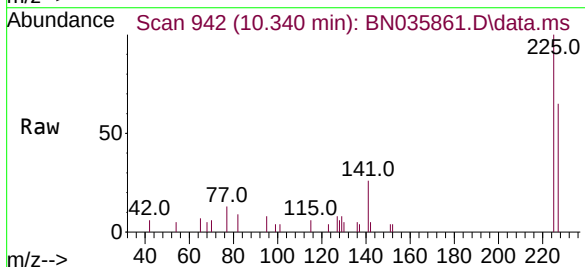
Tgt Ion:225 Resp: 1992

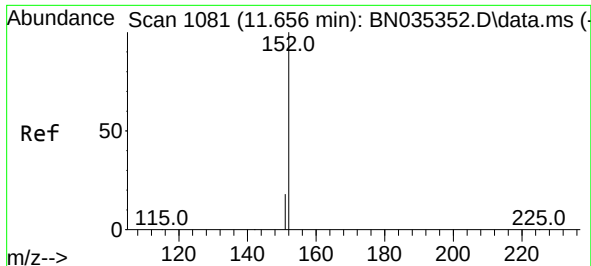
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 64.7 51.3 76.9

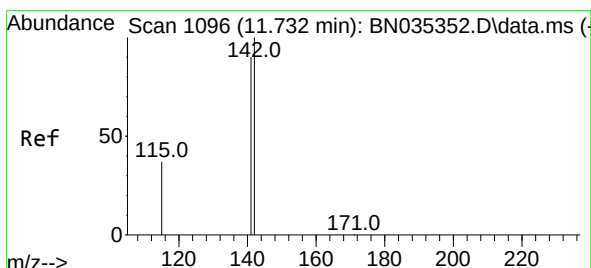
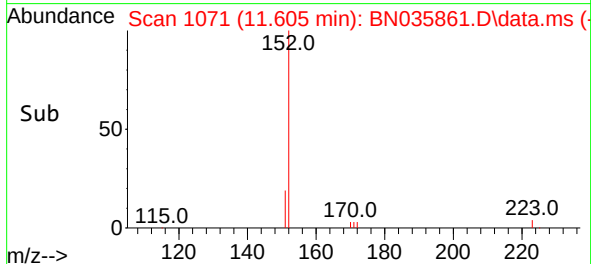
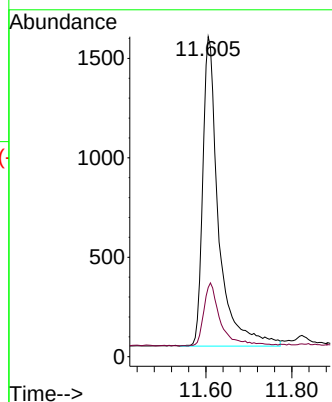
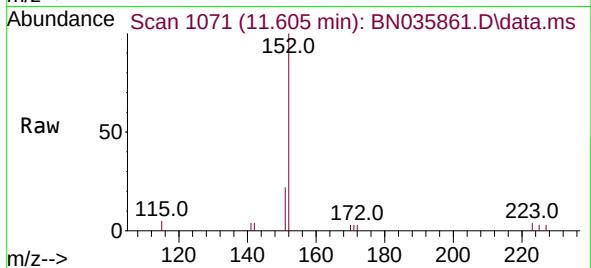




#11  
2-Methylnaphthalene-d10  
Concen: 0.352 ng  
RT: 11.605 min Scan# 1071  
Delta R.T. -0.015 min  
Lab File: BN035861.D  
Acq: 26 Dec 2024 19:41

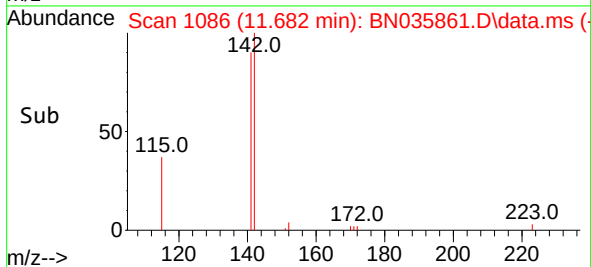
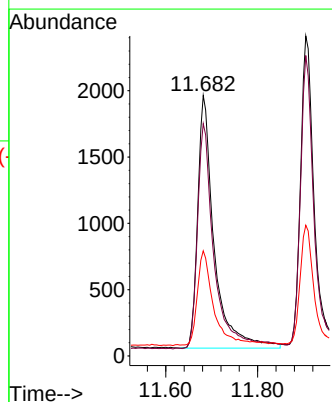
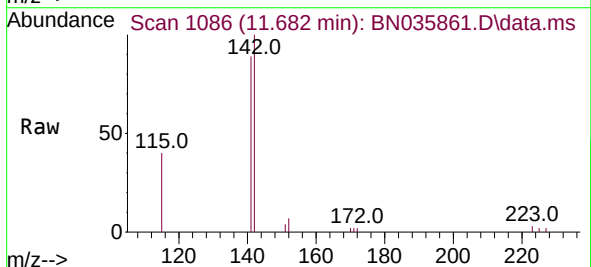
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

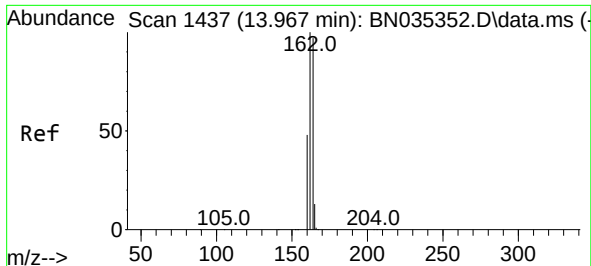
Tgt Ion:152 Resp: 3987  
Ion Ratio Lower Upper  
152 100  
151 21.5 16.6 25.0



#12  
2-Methylnaphthalene  
Concen: 0.347 ng  
RT: 11.682 min Scan# 1086  
Delta R.T. -0.015 min  
Lab File: BN035861.D  
Acq: 26 Dec 2024 19:41

Tgt Ion:142 Resp: 4745  
Ion Ratio Lower Upper  
142 100  
141 89.2 72.2 108.4  
115 40.4 31.4 47.0

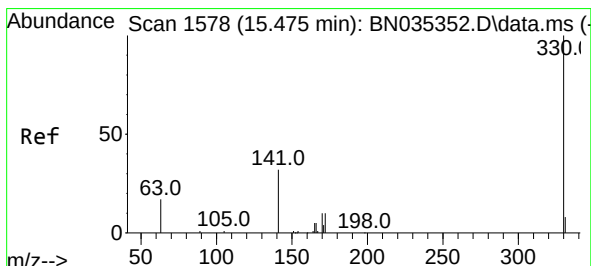
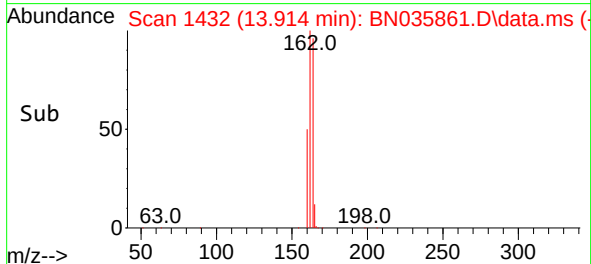
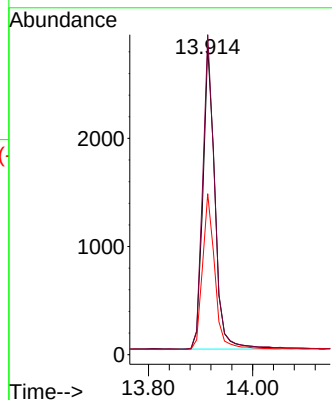
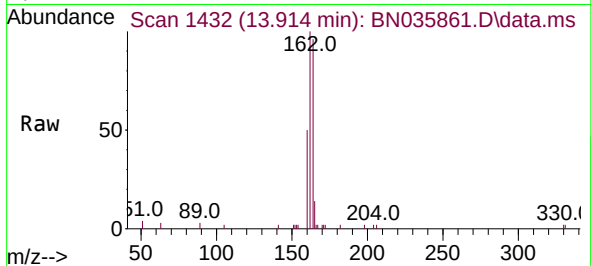




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.914 min Scan# 14  
Delta R.T. -0.021 min  
Lab File: BN035861.D  
Acq: 26 Dec 2024 19:41

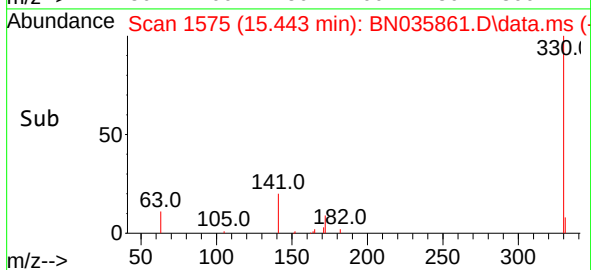
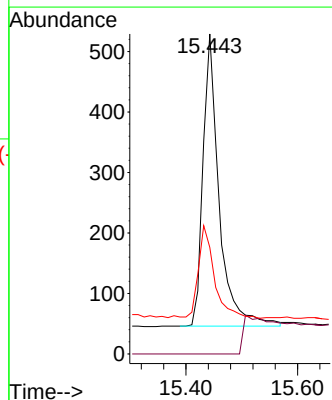
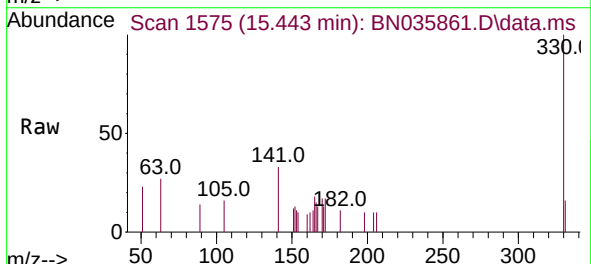
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

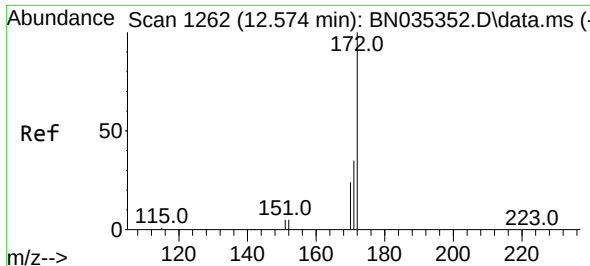
Tgt Ion:164 Resp: 4472  
Ion Ratio Lower Upper  
164 100  
162 104.0 82.2 123.2  
160 52.3 40.1 60.1



#14  
2,4,6-Tribromophenol  
Concen: 0.318 ng  
RT: 15.443 min Scan# 1575  
Delta R.T. -0.011 min  
Lab File: BN035861.D  
Acq: 26 Dec 2024 19:41

Tgt Ion:330 Resp: 1008  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 30.5 26.6 40.0

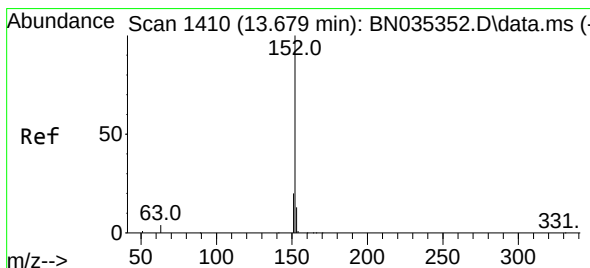
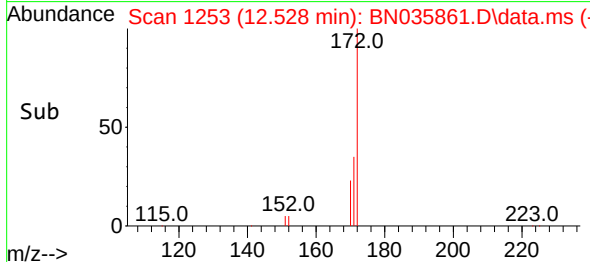
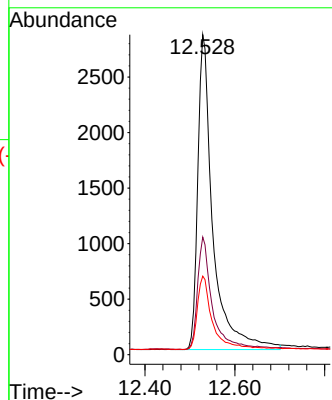
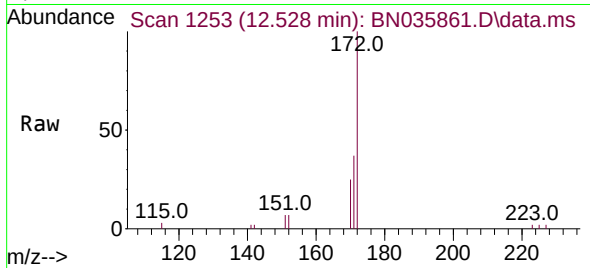




#15  
2-Fluorobiphenyl  
Concen: 0.392 ng  
RT: 12.528 min Scan# 11  
Delta R.T. -0.015 min  
Lab File: BN035861.D  
Acq: 26 Dec 2024 19:41

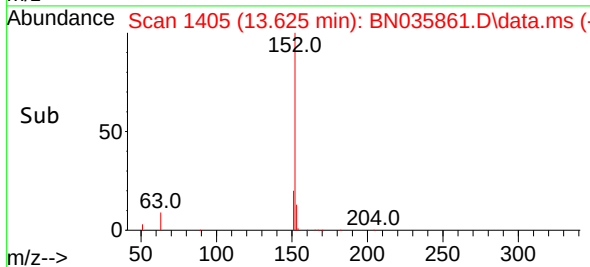
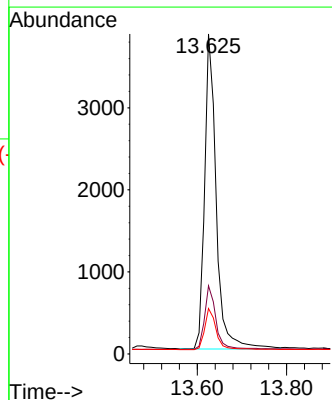
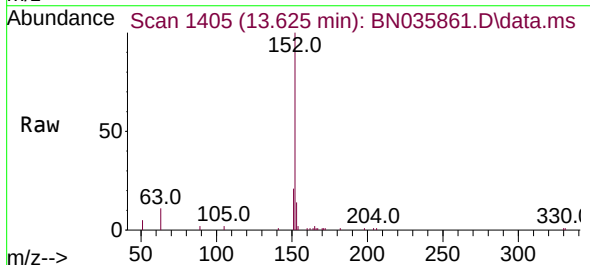
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

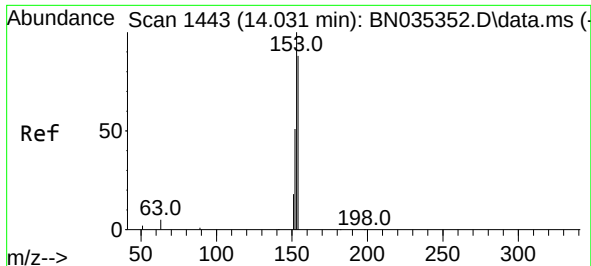
Tgt Ion:172 Resp: 6619  
Ion Ratio Lower Upper  
172 100  
171 36.8 29.0 43.4  
170 24.5 19.8 29.8



#16  
Acenaphthylene  
Concen: 0.369 ng  
RT: 13.625 min Scan# 1405  
Delta R.T. -0.021 min  
Lab File: BN035861.D  
Acq: 26 Dec 2024 19:41

Tgt Ion:152 Resp: 6923  
Ion Ratio Lower Upper  
152 100  
151 20.1 16.2 24.2  
153 13.0 10.4 15.6

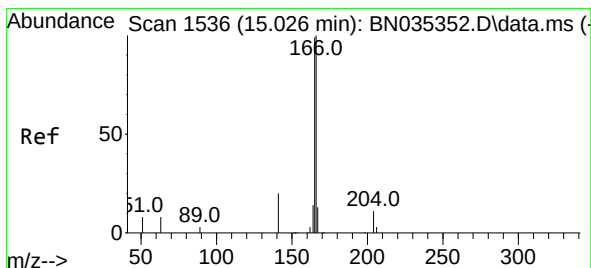
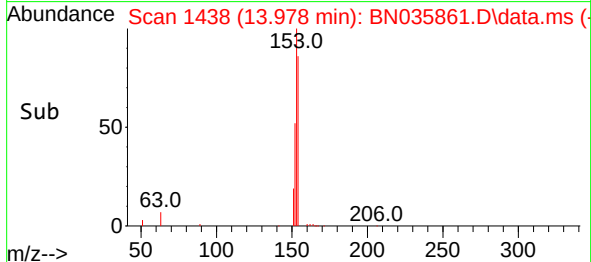
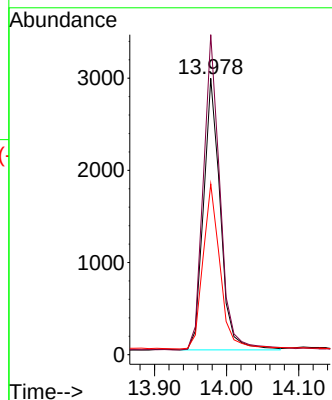
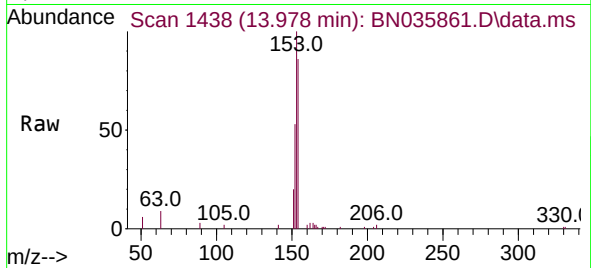




#17  
Acenaphthene  
Concen: 0.383 ng  
RT: 13.978 min Scan# 1443  
Delta R.T. -0.021 min  
Lab File: BN035861.D  
Acq: 26 Dec 2024 19:41

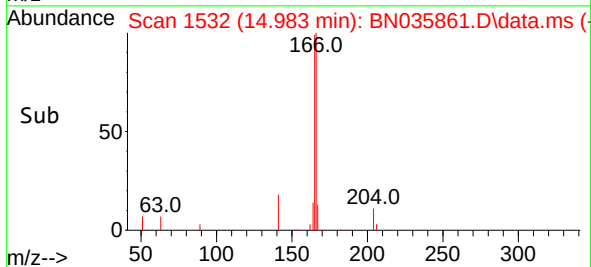
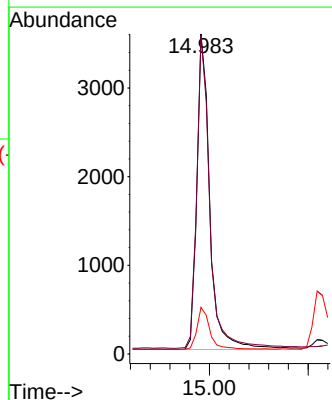
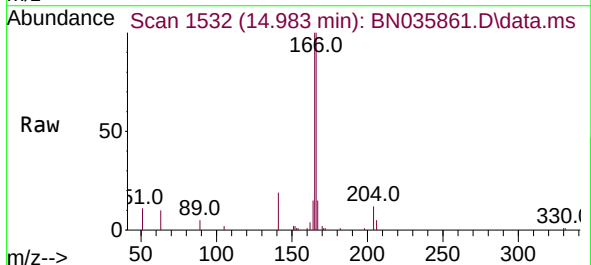
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

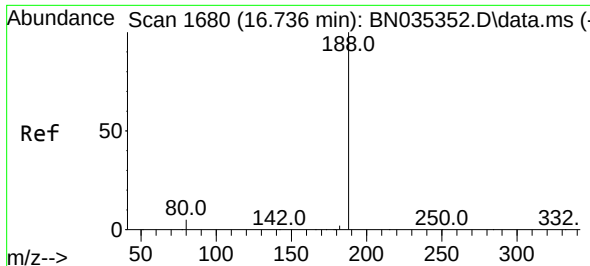
Tgt Ion:154 Resp: 4776  
Ion Ratio Lower Upper  
154 100  
153 116.3 92.6 139.0  
152 62.6 49.0 73.6



#18  
Fluorene  
Concen: 0.363 ng  
RT: 14.983 min Scan# 1532  
Delta R.T. -0.021 min  
Lab File: BN035861.D  
Acq: 26 Dec 2024 19:41

Tgt Ion:166 Resp: 6478  
Ion Ratio Lower Upper  
166 100  
165 98.7 79.7 119.5  
167 13.6 10.8 16.2

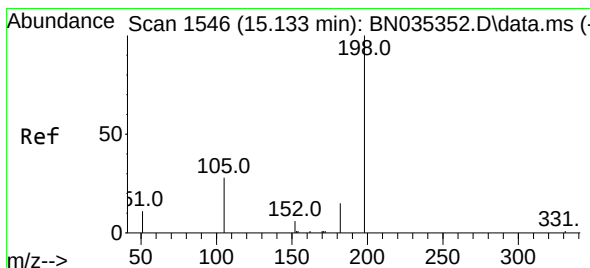
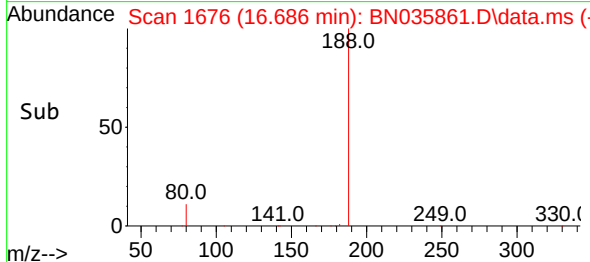
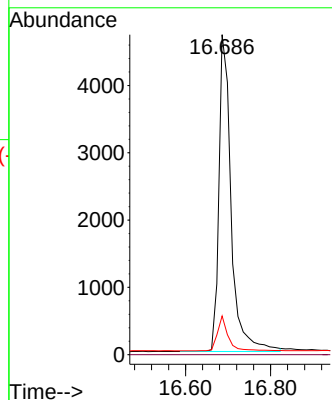
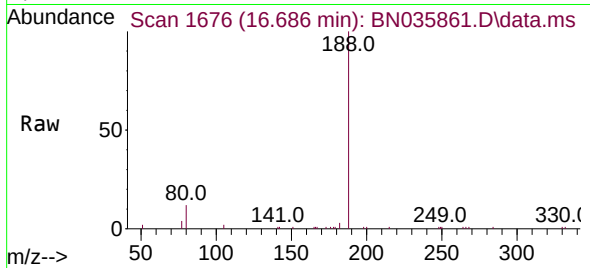




#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 16.686 min Scan# 1676  
Delta R.T. -0.012 min  
Lab File: BN035861.D  
Acq: 26 Dec 2024 19:41

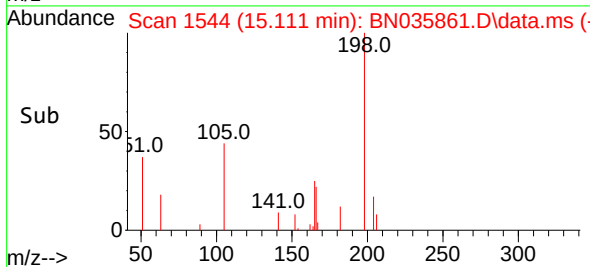
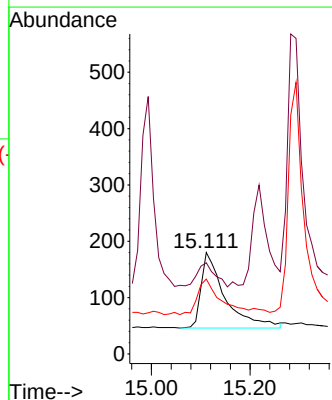
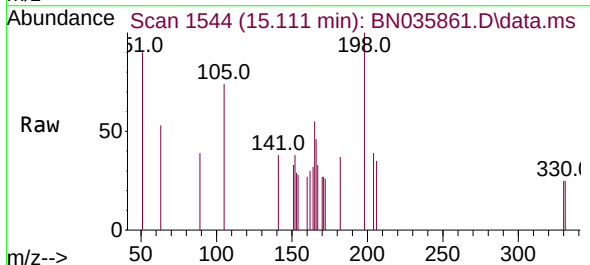
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

Tgt Ion:188 Resp: 9373  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 12.1 4.6 6.8#

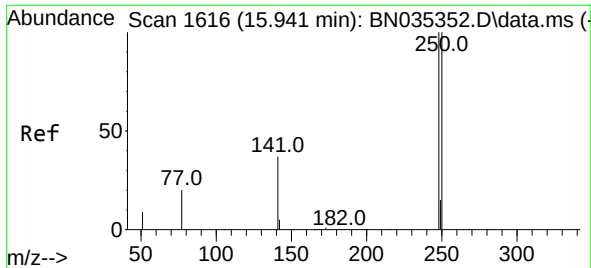


#20  
4,6-Dinitro-2-methylphenol  
Concen: 0.492 ng  
RT: 15.111 min Scan# 1544  
Delta R.T. -0.011 min  
Lab File: BN035861.D  
Acq: 26 Dec 2024 19:41

Tgt Ion:198 Resp: 453  
Ion Ratio Lower Upper  
198 100  
51 90.0 46.5 69.7#  
105 73.9 45.3 67.9#



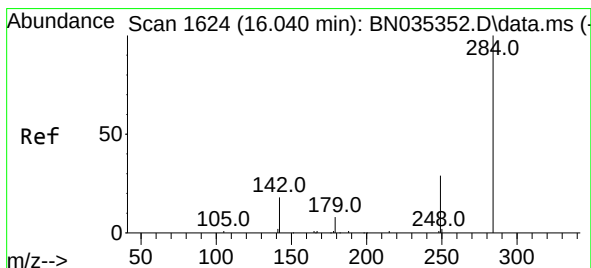
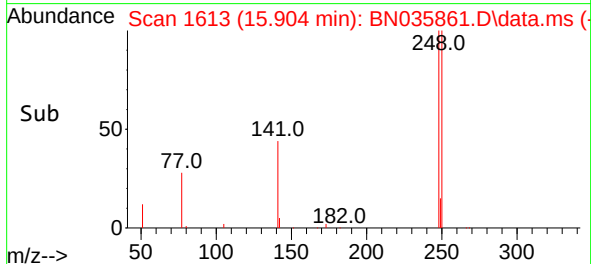
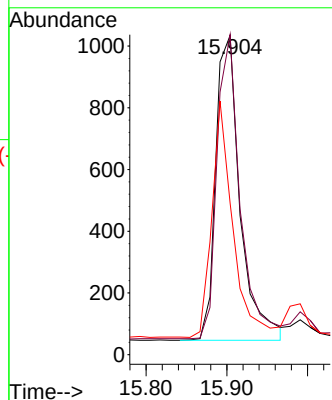
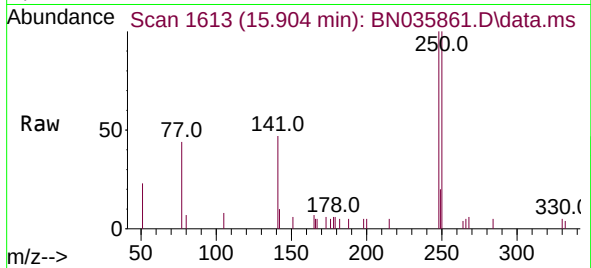




#21  
4-Bromophenyl-phenylether  
Concen: 0.378 ng  
RT: 15.904 min Scan# 1613  
Delta R.T. -0.012 min  
Lab File: BN035861.D  
Acq: 26 Dec 2024 19:41

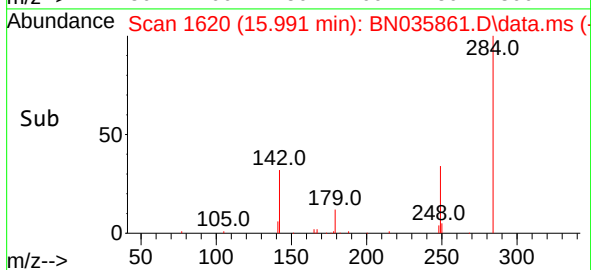
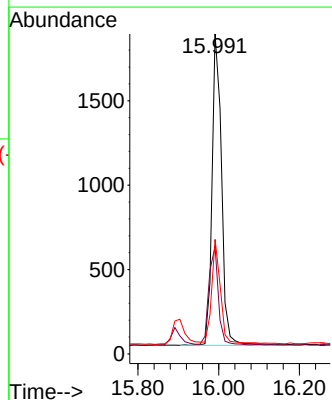
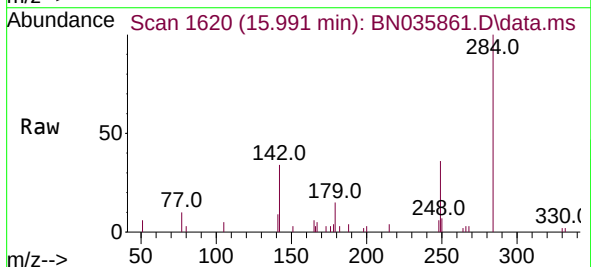
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

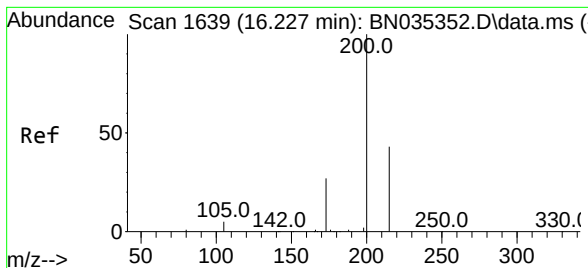
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 248     | 100   |       |       |
| 250     | 100.2 | 80.6  | 120.8 |
| 141     | 47.4  | 31.5  | 47.3# |



#22  
Hexachlorobenzene  
Concen: 0.468 ng  
RT: 15.991 min Scan# 1620  
Delta R.T. -0.025 min  
Lab File: BN035861.D  
Acq: 26 Dec 2024 19:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 284     | 100   |       |       |
| 142     | 31.5  | 26.7  | 40.1  |
| 249     | 31.2  | 24.6  | 36.8  |





#23

Atrazine

Concen: 0.386 ng

RT: 16.202 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN035861.D

Acq: 26 Dec 2024 19:41

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC

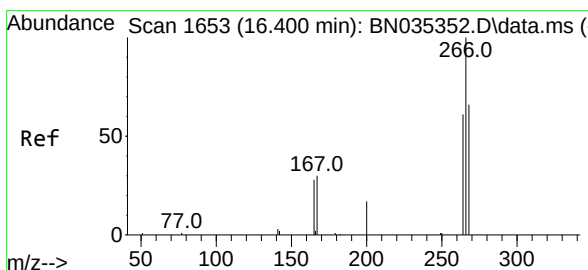
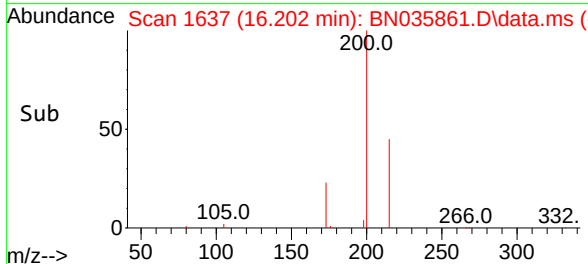
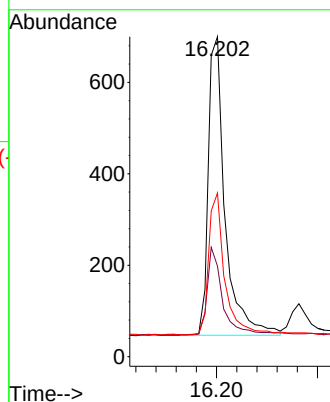
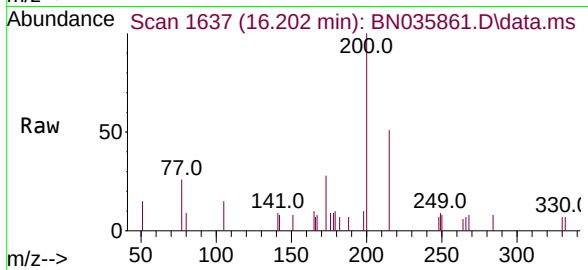
Tgt Ion:200 Resp: 1507

Ion Ratio Lower Upper

200 100

173 28.3 24.1 36.1

215 51.1 36.9 55.3



#24

Pentachlorophenol

Concen: 0.302 ng

RT: 16.363 min Scan# 1650

Delta R.T. -0.012 min

Lab File: BN035861.D

Acq: 26 Dec 2024 19:41

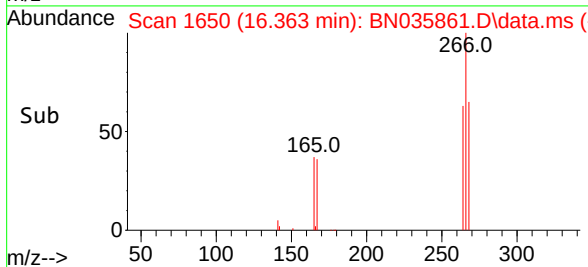
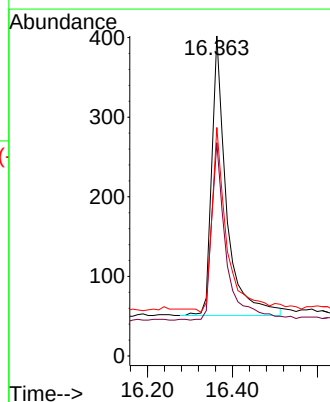
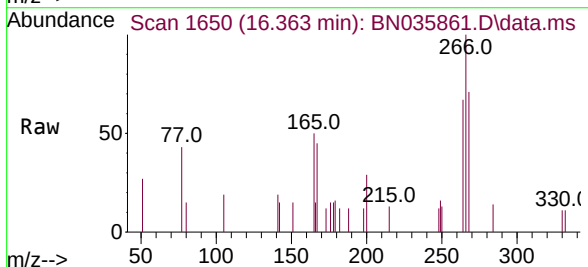
Tgt Ion:266 Resp: 846

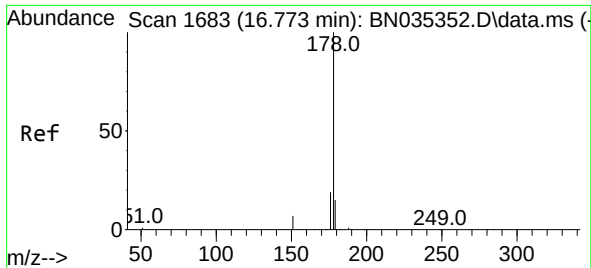
Ion Ratio Lower Upper

266 100

264 62.3 42.3 63.5

268 67.7 43.3 64.9#

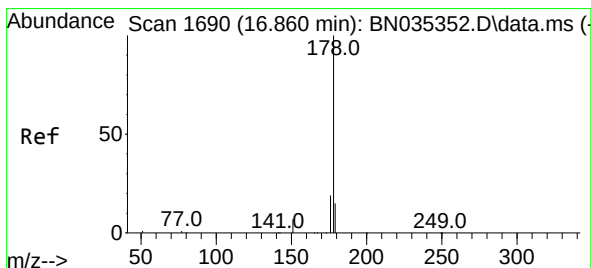
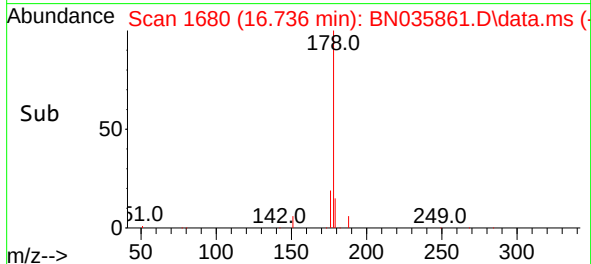
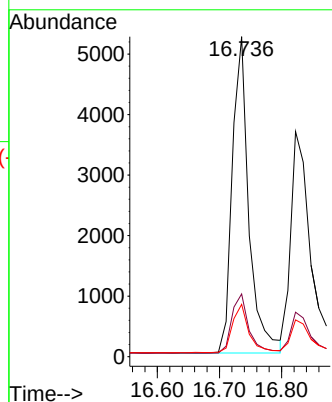
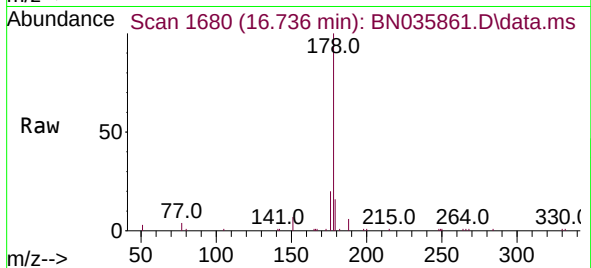




#25  
Phenanthrene  
Concen: 0.377 ng  
RT: 16.736 min Scan# 1680  
Delta R.T. -0.012 min  
Lab File: BN035861.D  
Acq: 26 Dec 2024 19:41

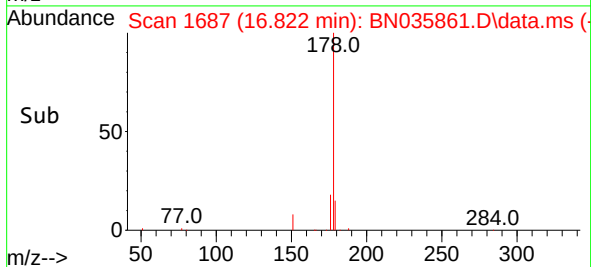
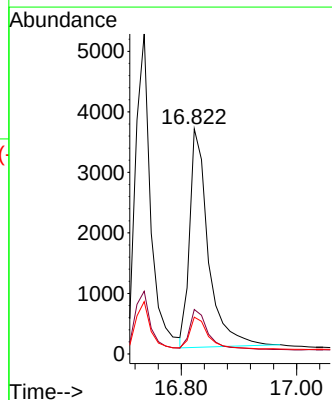
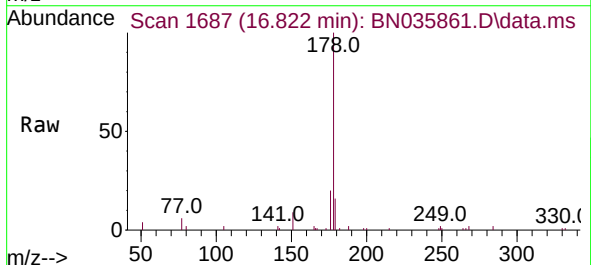
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

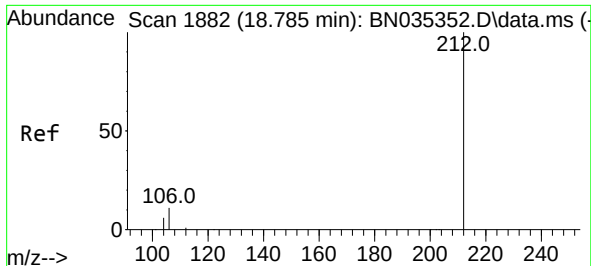
Tgt Ion:178 Resp: 9697  
Ion Ratio Lower Upper  
178 100  
176 19.5 15.4 23.2  
179 15.3 12.3 18.5



#26  
Anthracene  
Concen: 0.348 ng  
RT: 16.822 min Scan# 1687  
Delta R.T. -0.012 min  
Lab File: BN035861.D  
Acq: 26 Dec 2024 19:41

Tgt Ion:178 Resp: 8100  
Ion Ratio Lower Upper  
178 100  
176 18.6 15.0 22.6  
179 15.3 12.6 18.8





#27

Fluoranthene-d10

Concen: 0.325 ng

RT: 18.747 min Scan# 1874

Delta R.T. -0.014 min

Lab File: BN035861.D

Acq: 26 Dec 2024 19:41

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC

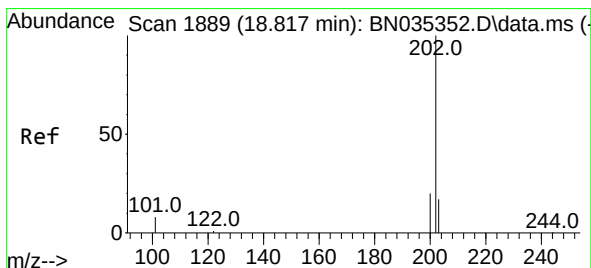
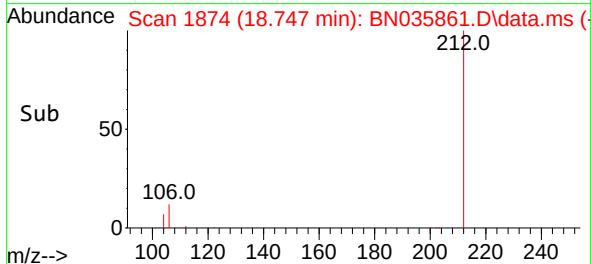
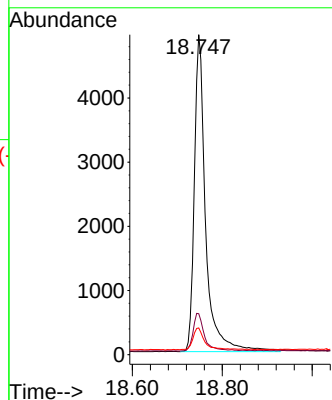
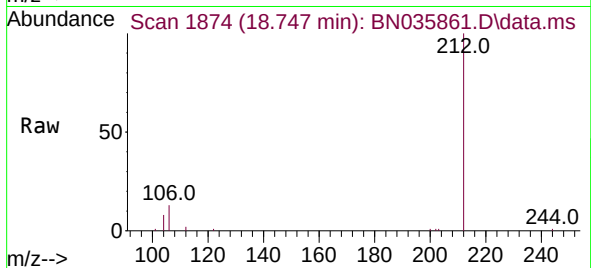
Tgt Ion:212 Resp: 8643

Ion Ratio Lower Upper

212 100

106 11.7 9.2 13.8

104 7.0 5.3 7.9



#28

Fluoranthene

Concen: 0.321 ng

RT: 18.780 min Scan# 1881

Delta R.T. -0.009 min

Lab File: BN035861.D

Acq: 26 Dec 2024 19:41

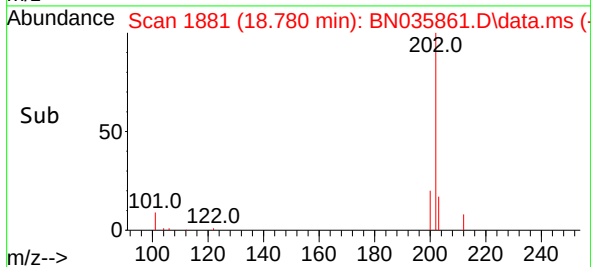
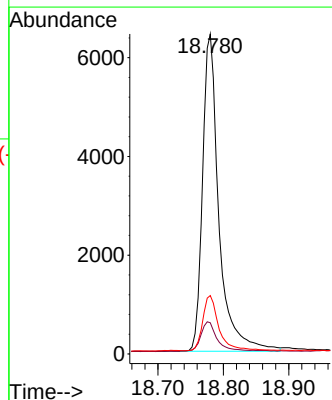
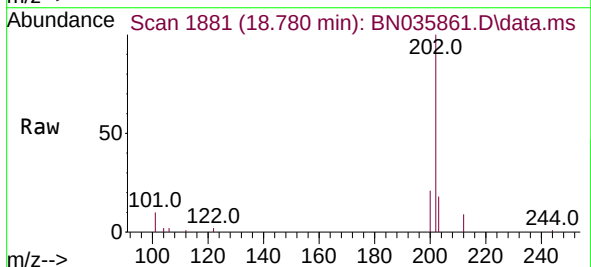
Tgt Ion:202 Resp: 11145

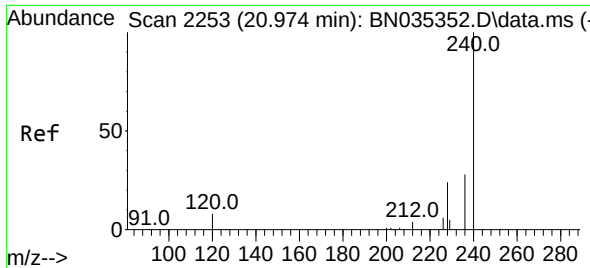
Ion Ratio Lower Upper

202 100

101 9.7 7.4 11.0

203 17.4 13.7 20.5

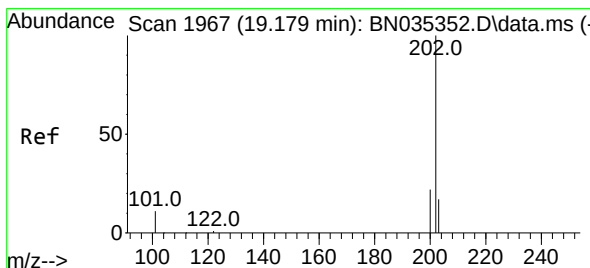
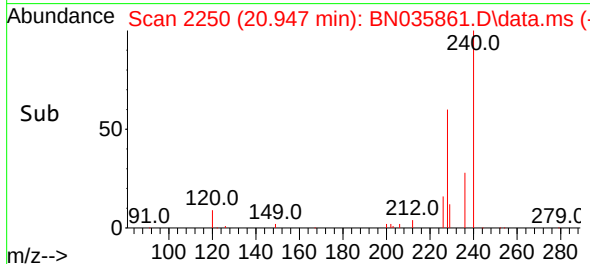
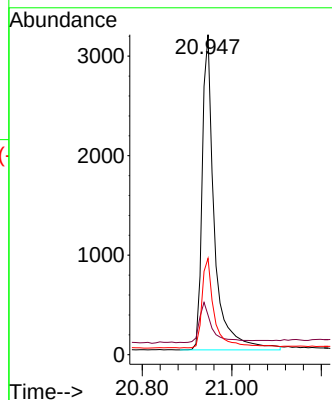
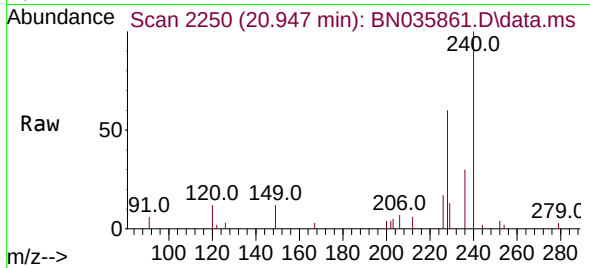




#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 20.947 min Scan# 21  
Delta R.T. -0.009 min  
Lab File: BN035861.D  
Acq: 26 Dec 2024 19:41

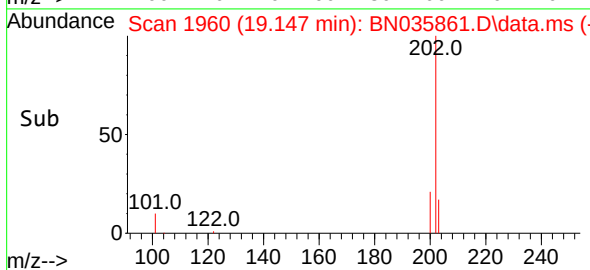
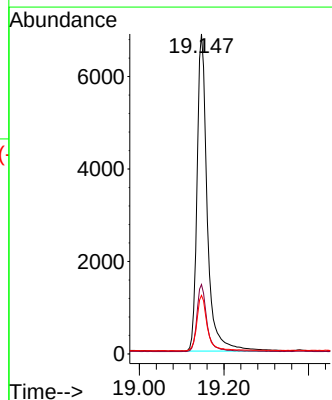
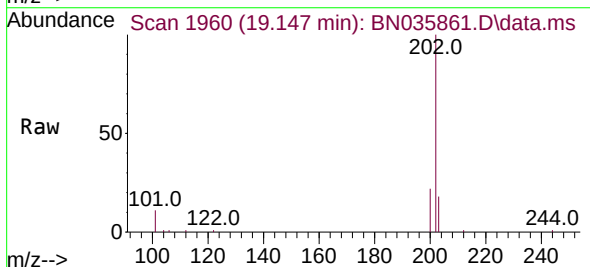
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

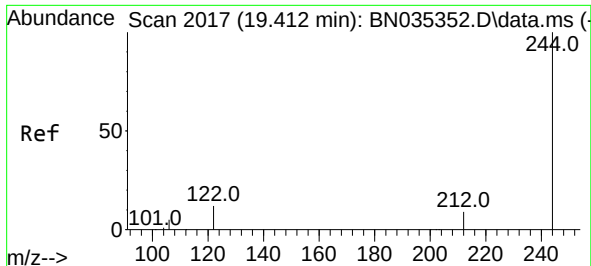
Tgt Ion:240 Resp: 6021  
Ion Ratio Lower Upper  
240 100  
120 12.3 7.9 11.9#  
236 30.1 22.9 34.3



#30  
Pyrene  
Concen: 0.517 ng  
RT: 19.147 min Scan# 1960  
Delta R.T. -0.014 min  
Lab File: BN035861.D  
Acq: 26 Dec 2024 19:41

Tgt Ion:202 Resp: 11492  
Ion Ratio Lower Upper  
202 100  
200 20.8 17.0 25.4  
203 18.0 14.3 21.5

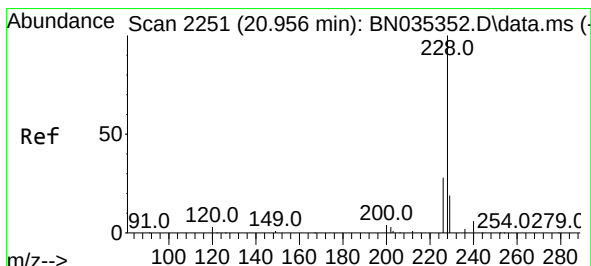
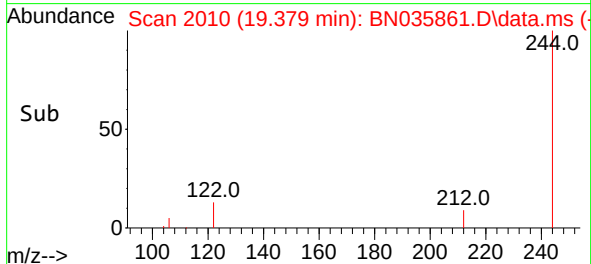
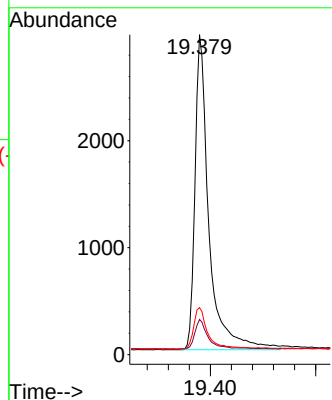
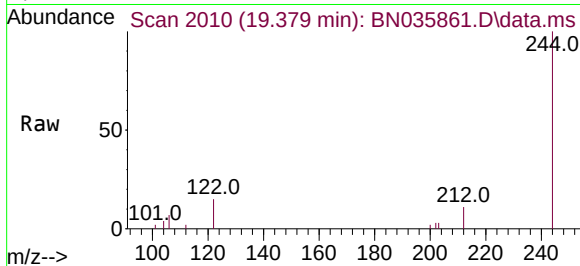




#31  
 Terphenyl-d14  
 Concen: 0.455 ng  
 RT: 19.379 min Scan# 20  
 Delta R.T. -0.009 min  
 Lab File: BN035861.D  
 Acq: 26 Dec 2024 19:41

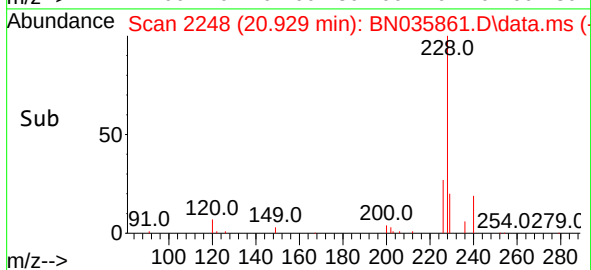
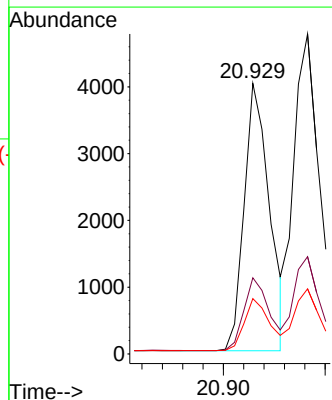
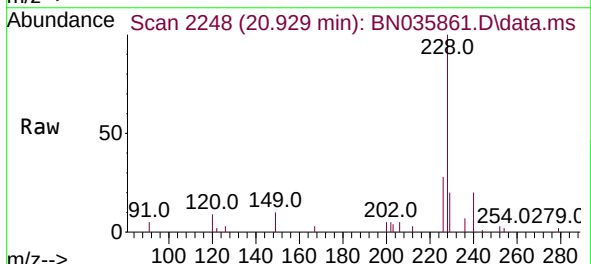
Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4EC

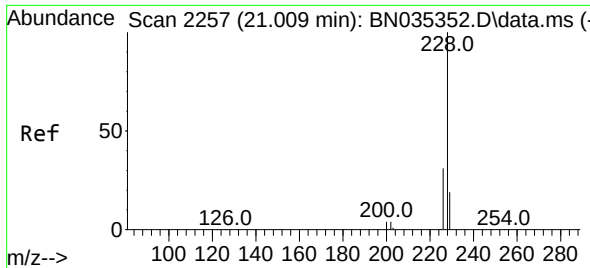
Tgt Ion:244 Resp: 5407  
 Ion Ratio Lower Upper  
 244 100  
 212 11.0 8.1 12.1  
 122 14.7 10.3 15.5



#32  
 Benzo(a)anthracene  
 Concen: 0.328 ng  
 RT: 20.929 min Scan# 2248  
 Delta R.T. -0.009 min  
 Lab File: BN035861.D  
 Acq: 26 Dec 2024 19:41

Tgt Ion:228 Resp: 6901  
 Ion Ratio Lower Upper  
 228 100  
 226 28.1 22.5 33.7  
 229 20.5 15.8 23.8

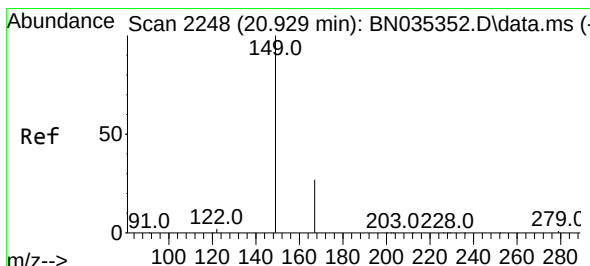
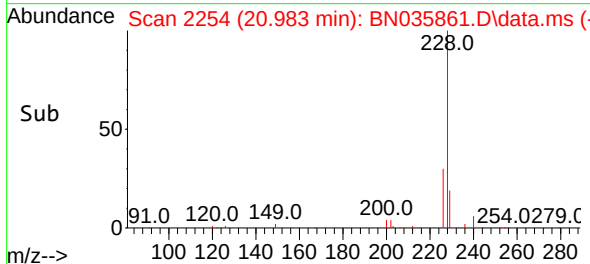
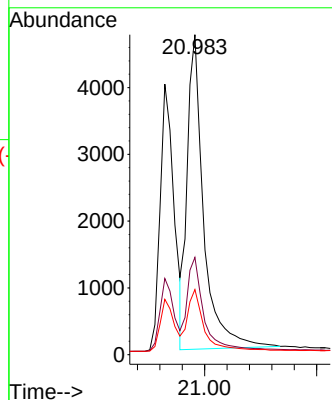
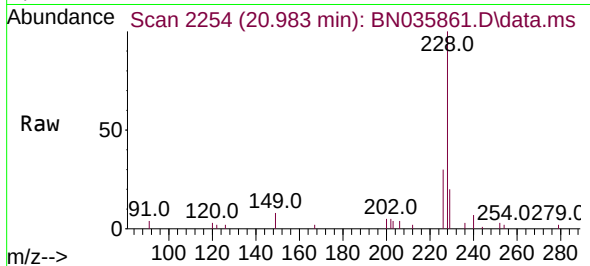




#33  
Chrysene  
Concen: 0.441 ng  
RT: 20.983 min Scan# 21  
Delta R.T. -0.009 min  
Lab File: BN035861.D  
Acq: 26 Dec 2024 19:41

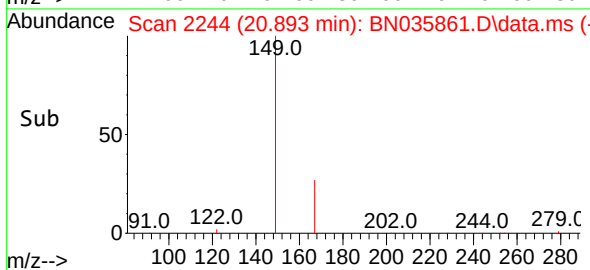
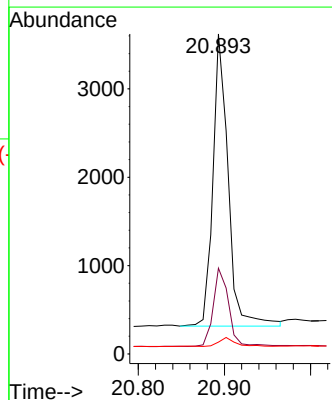
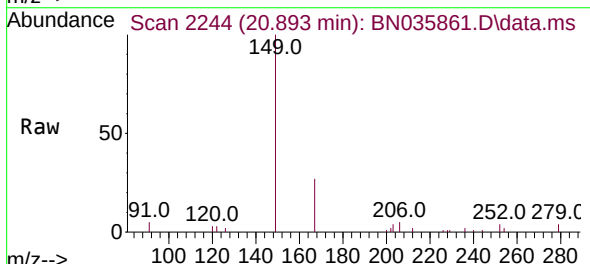
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

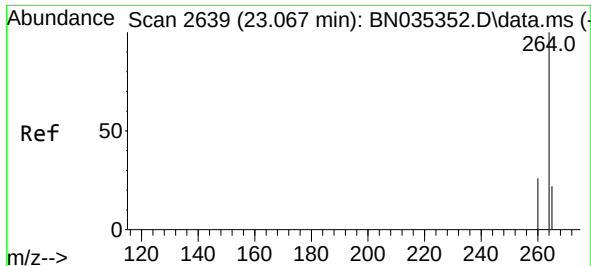
Tgt Ion:228 Resp: 9578  
Ion Ratio Lower Upper  
228 100  
226 30.4 24.6 37.0  
229 20.3 15.9 23.9



#34  
Bis(2-ethylhexyl)phthalate  
Concen: 0.489 ng  
RT: 20.893 min Scan# 2244  
Delta R.T. -0.018 min  
Lab File: BN035861.D  
Acq: 26 Dec 2024 19:41

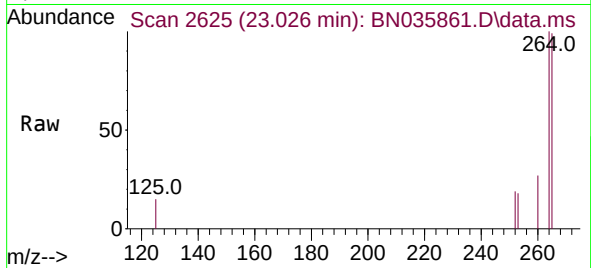
Tgt Ion:149 Resp: 4069  
Ion Ratio Lower Upper  
149 100  
167 27.2 22.2 33.4  
279 3.2 2.7 4.1



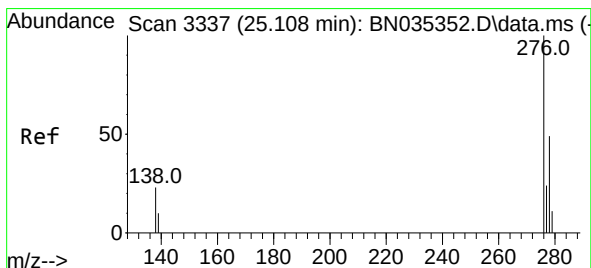
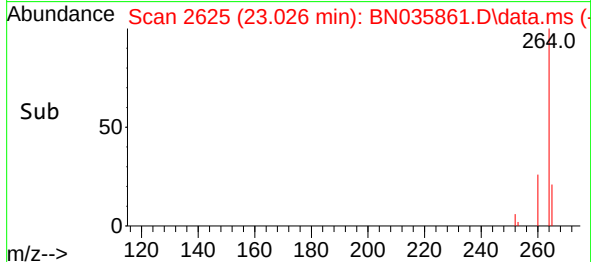
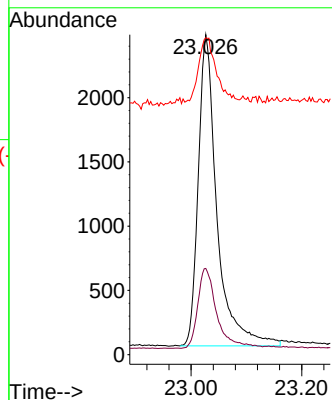


#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.026 min Scan# 2625  
Delta R.T. -0.015 min  
Lab File: BN035861.D  
Acq: 26 Dec 2024 19:41

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

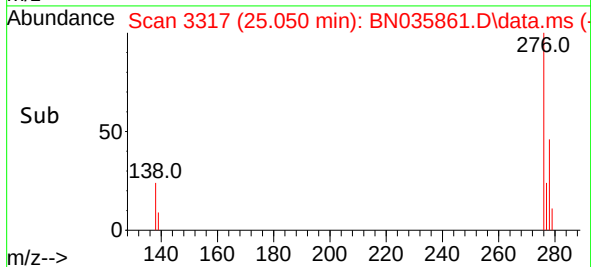
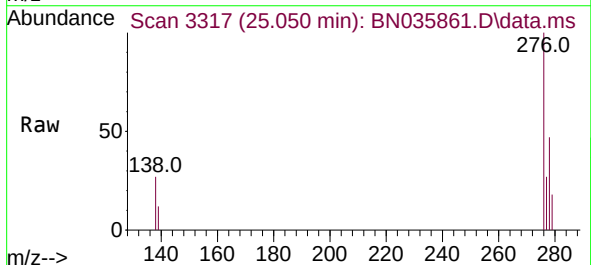
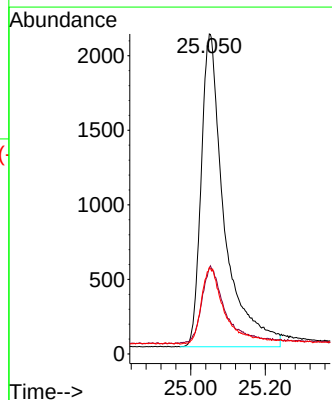


Tgt Ion:264 Resp: 5699  
Ion Ratio Lower Upper  
264 100  
260 26.9 21.4 32.2  
265 99.1 40.2 60.4#

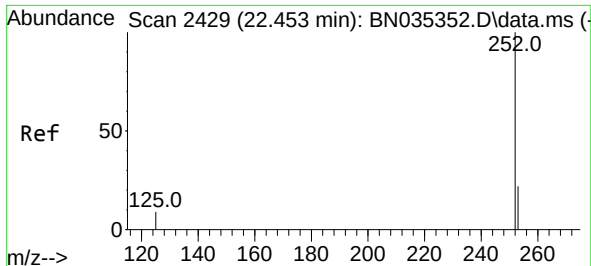


#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.405 ng  
RT: 25.050 min Scan# 3317  
Delta R.T. -0.018 min  
Lab File: BN035861.D  
Acq: 26 Dec 2024 19:41

Tgt Ion:276 Resp: 9030  
Ion Ratio Lower Upper  
276 100  
138 24.8 19.4 29.0  
277 23.4 19.8 29.6

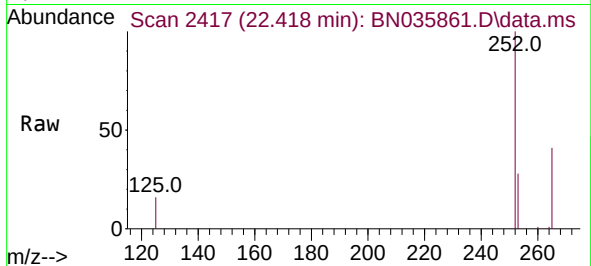




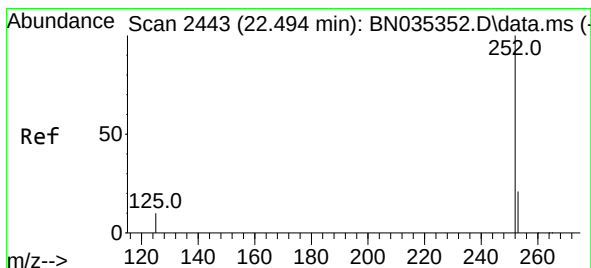
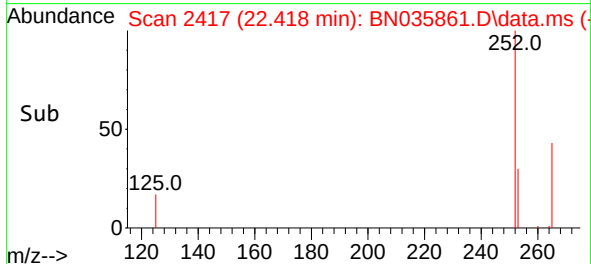
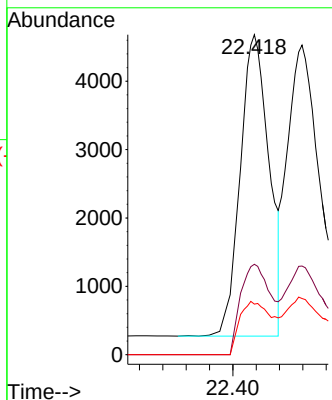


#37  
Benzo(b)fluoranthene  
Concen: 0.566 ng  
RT: 22.418 min Scan# 2417  
Delta R.T. -0.012 min  
Lab File: BN035861.D  
Acq: 26 Dec 2024 19:41

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

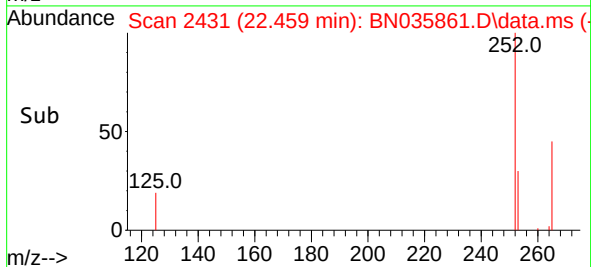
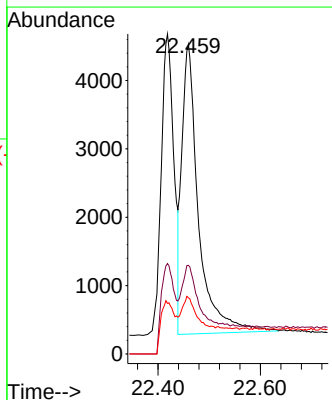
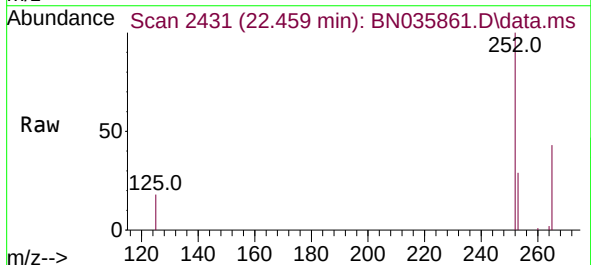


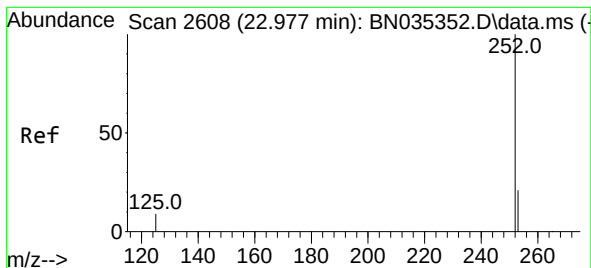
Tgt Ion:252 Resp: 11803  
Ion Ratio Lower Upper  
252 100  
253 28.3 19.6 29.4  
125 15.8 9.6 14.4#



#38  
Benzo(k)fluoranthene  
Concen: 0.470 ng  
RT: 22.459 min Scan# 2431  
Delta R.T. -0.012 min  
Lab File: BN035861.D  
Acq: 26 Dec 2024 19:41

Tgt Ion:252 Resp: 9638  
Ion Ratio Lower Upper  
252 100  
253 28.6 19.5 29.3  
125 18.2 10.2 15.4#





#39

Benzo(a)pyrene

Concen: 0.387 ng

RT: 22.939 min Scan# 21

Delta R.T. -0.012 min

Lab File: BN035861.D

Acq: 26 Dec 2024 19:41

Instrument :

BN035861.D

ClientSampleId :

SSTDCCC0.4EC

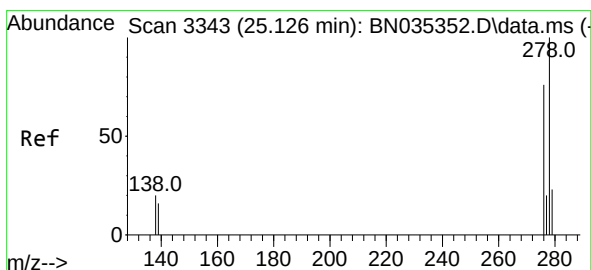
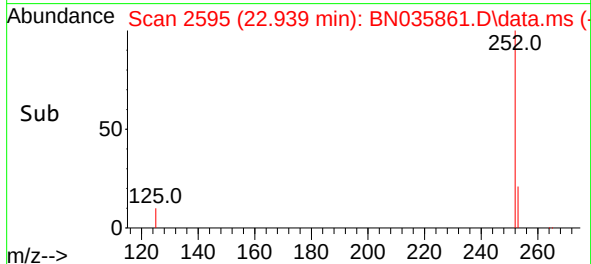
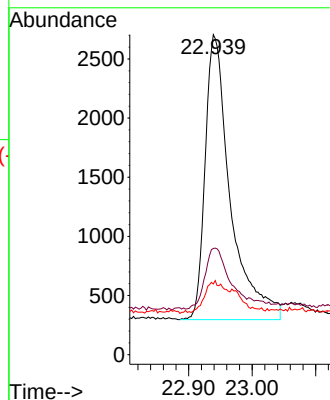
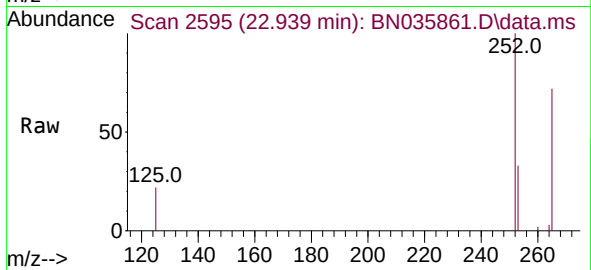
Tgt Ion:252 Resp: 6641

Ion Ratio Lower Upper

252 100

253 33.2 20.2 30.4#

125 22.1 10.9 16.3#



#40

Dibenzo(a,h)anthracene

Concen: 0.377 ng

RT: 25.070 min Scan# 3324

Delta R.T. -0.012 min

Lab File: BN035861.D

Acq: 26 Dec 2024 19:41

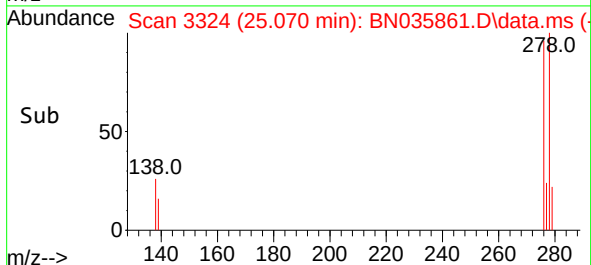
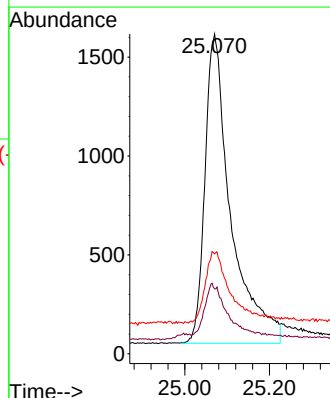
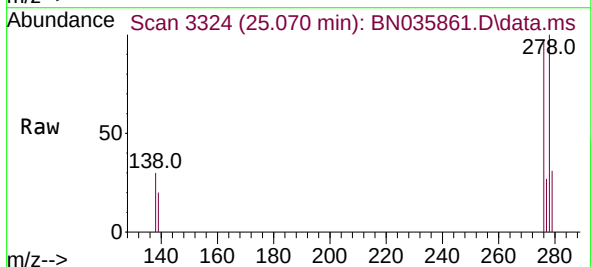
Tgt Ion:278 Resp: 6633

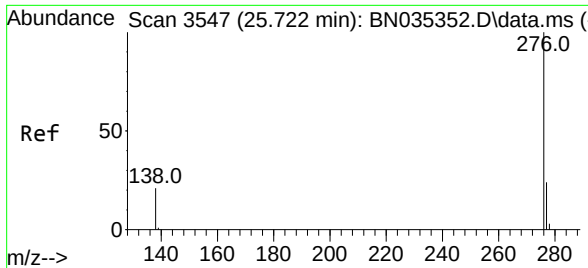
Ion Ratio Lower Upper

278 100

139 20.3 14.2 21.4

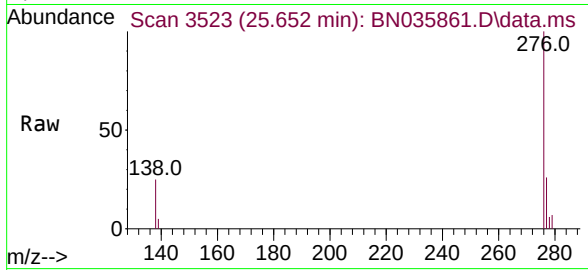
279 31.2 20.5 30.7#





#41  
Benzo(g,h,i)perylene  
Concen: 0.452 ng  
RT: 25.652 min Scan# 31  
Delta R.T. -0.026 min  
Lab File: BN035861.D  
Acq: 26 Dec 2024 19:41

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 276   | Resp: | 8300  |
| Ion      | Ratio | Lower | Upper |
| 276      | 100   |       |       |
| 277      | 26.3  | 19.9  | 29.9  |
| 138      | 25.5  | 17.8  | 26.8  |

