

**DATA PACKAGE  
SEMI-VOLATILE ORGANICS**

**PROJECT NAME : CTO WE13**

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

**ORDER ID : P5065  
ATTENTION : Ernie Wu**



**Laboratory Certification ID # 20012**



|                                             |     |
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## Cover Page

**Order ID :** P5065

**Project ID :** CTO WE13

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

**Lab Sample Number**

P5065-04  
P5065-05  
P5065-06

**Client Sample Number**

RW7-SP200-20241202  
RW7-SP201-20241202  
RW7-SP300A-20241202

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 :

*N. N. Pandya*

**APPROVED**

*By Nimisha Pandya, QA/QC Supervisor at 2:21 pm, Dec 05, 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 # P5065**

**Test Name: SVOC-SIMGroup1**

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

3 Water samples were received on 12/03/2024.

### **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 RW7-SP200-20241202 [Terphenyl-d14 - 135%], RW7-SP201-20241202 [Terphenyl-d14 - 145%], RW7-SP300A-20241202 [Terphenyl-d14 - 151%], PB165348BS [2-Fluorobiphenyl - 108%, Nitrobenzene-d5 - 112%] and PB165348BSD [2-Fluorobiphenyl - 115%, Nitrobenzene-d5 - 127%], 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 RPD met criteria .

The Blank Spike met requirements for all samples .

The Blank Spike Duplicate met requirements for all samples .

The Initial Calibration met the requirements .

The Continuous Calibration met the requirements .

The Tuning criteria met requirements.

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

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

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

The not QT review data is reported in the Miscellaneous.  
Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

**F. Manual Integration Comments:**

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

---

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

Signature N. N. Pandya

**APPROVED**

By Nimisha Pandya, QA/QC Supervisor at 2:21 pm, Dec 05, 2024

## 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: <ol style="list-style-type: none"> <li>(1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.)</li> <li>(2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.</li> </ol> |
| B     | Indicates the analyte was found in the blank as well as the sample report as “12 B”.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| E     | Indicates the analyte ‘s concentration exceeds the calibrated range of the instrument for that specific analysis.                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| D     | This flag identifies all compounds identified in an analysis at a secondary dilution factor.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| P     | This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a “P”.                                                                                                                                                                                                                                                                                                                                                                             |
| N     | This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.                                                                                                                                                                                                                                                                       |
| A     | This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Q     | Indicates the LCS did not meet the control limits requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

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

CHEMTECH PROJECT NUMBER: P5065

MATRIX: /Water

METHOD: 8270-Modified/3510

|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | NA | NO | YES |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|-----|
| 1. | Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |    |    | ✓   |
| 2. | GC/MS Tuning Specifications. DFTPP Meet Criteria.<br>(NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP,<br>CLP AND NJ)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |    | ✓   |
| 3. | GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for<br>8000 Series.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    |    | ✓   |
| 4. | GC/MS Calibration - Initial Calibration performed within 30 days before sample<br>analysis and continuing calibration performed within 24 hours of sample analysis for<br>600 series and 12 hours for 8000 series.                                                                                                                                                                                                                                                                                                                                                                                                      |    |    | ✓   |
| 5. | GC/MS Calibration Requirements.<br><br>The Initial Calibration met the requirements .<br>The Continuous Calibration met the requirements .                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |    |    | ✓   |
| 6. | Blank Contamination - If yes, list compounds and concentrations in each blank:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |    | ✓  |     |
| 7. | Surrogate Recoveries Meet Criteria<br><br>If not met, list those compounds and their recoveries which fall outside the acceptable<br>ranges.<br><br>The Surrogate recoveries met the acceptable criteria except for RW7-SP200-20241202<br>[Terphenyl-d14 - 135%], RW7-SP201-20241202 [Terphenyl-d14 - 145%], RW7-<br>SP300A-20241202 [Terphenyl-d14 - 151%], PB165348BS [2-Fluorobiphenyl - 108%,<br>Nitrobenzene-d5 - 112%] and PB165348BSD [2-Fluorobiphenyl - 115%, Nitrobenzene-<br>d5 - 127%], The failure surrogates not associated with the client parameters list,<br>therefore no corrective action was taken. |    | ✓  |     |
| 8. | Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria<br><br>If not met, list those compounds and their recoveries which fall outside the acceptable<br>range.<br><br>The Blank Spike met requirements for all samples .<br>The Blank Spike Duplicate met requirements for all samples .                                                                                                                                                                                                                                                                                                                         |    |    | ✓   |

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

|     |                                                           | NA | NO | YES |
|-----|-----------------------------------------------------------|----|----|-----|
| 9.  | Internal Standard Area/Retention Time Shift Meet Criteria |    |    | ✓   |
|     | Comments:                                                 |    |    |     |
| 10. | Extraction Holding Time Met                               |    |    | ✓   |
|     | If not met, list number of days exceeded for each sample: |    |    |     |
| 11. | Analysis Holding Time Met                                 |    |    | ✓   |
|     | If not met, list number of days exceeded for each sample: |    |    |     |

**ADDITIONAL COMMENTS:**

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

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

The not QT review data is reported in the Miscellaneous.

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.

\_\_\_\_ S. M. Jodhani \_\_\_\_\_  
 QA REVIEW

**REVIEWED**

By Sohil Jodhani, QA/QC Director at 9:10 am, Dec 05, 2024

APPENDIX A

**QA REVIEW GENERAL DOCUMENTATION**

Project #: P5065

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: 12/05/2024

## LAB CHRONICLE

|                 |                      |                   |                       |
|-----------------|----------------------|-------------------|-----------------------|
| <b>OrderID:</b> | P5065                | <b>OrderDate:</b> | 12/3/2024 10:48:00 AM |
| <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>P5065-04</b> | <b>RW7-SP200-20241202</b>  | <b>Water</b> |                |               | <b>12/02/24</b> |           |           | <b>12/03/24</b> |
|                 |                            |              | SVOC-SIMGroup1 | 8270-Modified |                 | 12/03/24  | 12/03/24  |                 |
| <b>P5065-05</b> | <b>RW7-SP201-20241202</b>  | <b>Water</b> |                |               | <b>12/02/24</b> |           |           | <b>12/03/24</b> |
|                 |                            |              | SVOC-SIMGroup1 | 8270-Modified |                 | 12/03/24  | 12/03/24  |                 |
| <b>P5065-06</b> | <b>RW7-SP300A-20241202</b> | <b>Water</b> |                |               | <b>12/02/24</b> |           |           | <b>12/03/24</b> |
|                 |                            |              | SVOC-SIMGroup1 | 8270-Modified |                 | 12/03/24  | 12/03/24  |                 |

### Hit Summary Sheet SW-846

**SDG No.:** P5065  
**Client:** Tetra Tech NUS, Inc.

| Sample ID                              | Client ID           | Parameter | Concentration               | C           | MDL  | LOD  | RDL  | Units |
|----------------------------------------|---------------------|-----------|-----------------------------|-------------|------|------|------|-------|
| <b>Client ID : RW7-SP200-20241202</b>  |                     |           |                             |             |      |      |      |       |
| P5065-04                               | RW7-SP200-20241202  | WATER     | 1,4-Dioxane                 | 3.300       | 0.07 | 0.21 | 0.21 | ug/L  |
|                                        |                     |           | <b>Total Svoc :</b>         | <b>3.30</b> |      |      |      |       |
|                                        |                     |           | <b>Total Concentration:</b> | <b>3.30</b> |      |      |      |       |
| <b>Client ID : RW7-SP300A-20241202</b> |                     |           |                             |             |      |      |      |       |
| P5065-06                               | RW7-SP300A-20241202 | WATER     | 1,4-Dioxane                 | 0.570       | 0.07 | 0.2  | 0.2  | ug/L  |
|                                        |                     |           | <b>Total Svoc :</b>         | <b>0.57</b> |      |      |      |       |
|                                        |                     |           | <b>Total Concentration:</b> | <b>0.57</b> |      |      |      |       |





# QC SUMMARY

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## Surrogate Summary

SW-846

SDG No.: **P5065**

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

Analytical Method: **8270-Modified**

| Lab Sample ID | Client ID           | Parameter               | Spike (PPM) | Result (PPM) | Recovery (%) | Qual | Limits (%) |      |
|---------------|---------------------|-------------------------|-------------|--------------|--------------|------|------------|------|
|               |                     |                         |             |              |              |      | Low        | High |
| P5065-04      | RW7-SP200-20241202  | 2-Methylnaphthalene-d10 | 0.4         | 0.36         | 90           |      | 30         | 150  |
|               |                     | Fluoranthene-d10        | 0.4         | 0.37         | 93           |      | 30         | 150  |
|               |                     | Nitrobenzene-d5         | 0.4         | 0.33         | 82           |      | 55         | 111  |
|               |                     | 2-Fluorobiphenyl        | 0.4         | 0.37         | 91           |      | 53         | 106  |
|               |                     | Terphenyl-d14           | 0.4         | 0.54         | 135          | *    | 58         | 132  |
| P5065-05      | RW7-SP201-20241202  | 2-Methylnaphthalene-d10 | 0.4         | 0.36         | 89           |      | 30         | 150  |
|               |                     | Fluoranthene-d10        | 0.4         | 0.38         | 94           |      | 30         | 150  |
|               |                     | Nitrobenzene-d5         | 0.4         | 0.35         | 88           |      | 55         | 111  |
|               |                     | 2-Fluorobiphenyl        | 0.4         | 0.36         | 90           |      | 53         | 106  |
|               |                     | Terphenyl-d14           | 0.4         | 0.58         | 145          | *    | 58         | 132  |
| P5065-06      | RW7-SP300A-20241202 | 2-Methylnaphthalene-d10 | 0.4         | 0.36         | 91           |      | 30         | 150  |
|               |                     | Fluoranthene-d10        | 0.4         | 0.38         | 94           |      | 30         | 150  |
|               |                     | Nitrobenzene-d5         | 0.4         | 0.32         | 81           |      | 55         | 111  |
|               |                     | 2-Fluorobiphenyl        | 0.4         | 0.37         | 94           |      | 53         | 106  |
|               |                     | Terphenyl-d14           | 0.4         | 0.60         | 151          | *    | 58         | 132  |
| PB165348BL    | PB165348BL          | 2-Methylnaphthalene-d10 | 0.4         | 0.44         | 109          |      | 30         | 150  |
|               |                     | Fluoranthene-d10        | 0.4         | 0.42         | 104          |      | 30         | 150  |
|               |                     | Nitrobenzene-d5         | 0.4         | 0.40         | 100          |      | 55         | 111  |
|               |                     | 2-Fluorobiphenyl        | 0.4         | 0.42         | 106          |      | 53         | 106  |
|               |                     | Terphenyl-d14           | 0.4         | 0.51         | 128          |      | 58         | 132  |
| PB165348BS    | PB165348BS          | 2-Methylnaphthalene-d10 | 0.4         | 0.52         | 130          |      | 30         | 150  |
|               |                     | Fluoranthene-d10        | 0.4         | 0.40         | 100          |      | 30         | 150  |
|               |                     | Nitrobenzene-d5         | 0.4         | 0.45         | 112          | *    | 55         | 111  |
|               |                     | 2-Fluorobiphenyl        | 0.4         | 0.43         | 108          | *    | 53         | 106  |
|               |                     | Terphenyl-d14           | 0.4         | 0.46         | 116          |      | 58         | 132  |
| PB165348BSD   | PB165348BSD         | 2-Methylnaphthalene-d10 | 0.4         | 0.57         | 142          |      | 30         | 150  |
|               |                     | Fluoranthene-d10        | 0.4         | 0.43         | 108          |      | 30         | 150  |
|               |                     | Nitrobenzene-d5         | 0.4         | 0.51         | 127          | *    | 55         | 111  |
|               |                     | 2-Fluorobiphenyl        | 0.4         | 0.46         | 115          | *    | 53         | 106  |
|               |                     | Terphenyl-d14           | 0.4         | 0.50         | 124          |      | 58         | 132  |

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

SW-846

SDG No.: P5065

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified DataFile: BN035408.D

| Lab Sample ID | Parameter   | Spike | Result | Unit | Rec | RPD | Qual | RPD  | Limits |      | RPD |
|---------------|-------------|-------|--------|------|-----|-----|------|------|--------|------|-----|
|               |             |       |        |      |     |     |      | Qual | Low    | High |     |
| PB165348BS    | 1,4-Dioxane | 0.4   | 0.37   | ug/L | 93  |     |      |      | 70     | 130  |     |

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

SW-846

SDG No.: P5065

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified DataFile: BN035409.D

| Lab Sample ID | Parameter   | Spike | Result | Unit | Rec | RPD | Qual | RPD  | Low | Limits | RPD |
|---------------|-------------|-------|--------|------|-----|-----|------|------|-----|--------|-----|
|               |             |       |        |      |     |     |      | Qual |     | High   |     |
| PB165348BSD   | 1,4-Dioxane | 0.4   | 0.41   | ug/L | 103 | 10  |      |      | 70  | 130    | 20  |

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB165348BL

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM Case No.: P5065

SAS No.: P5065 SDG NO.: P5065

Lab File ID: BN035407.D

Lab Sample ID: PB165348BL

Instrument ID: BNA\_N

Date Extracted: 12/03/2024

Matrix: (soil/water) Water

Date Analyzed: 12/03/2024

Level: (low/med) LOW

Time Analyzed: 17:37

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 |
|---------------------|------------------|----------------|------------------|
| PB165348BS          | PB165348BS       | BN035408.D     | 12/03/2024       |
| PB165348BSD         | PB165348BSD      | BN035409.D     | 12/03/2024       |
| RW7-SP300A-20241202 | P5065-06         | BN035412.D     | 12/03/2024       |
| RW7-SP200-20241202  | P5065-04         | BN035410.D     | 12/03/2024       |
| RW7-SP201-20241202  | P5065-05         | BN035411.D     | 12/03/2024       |

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



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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: TETR06Lab Code: CHEMSAS No.: P5065SDG NO.: P5065Lab 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            |



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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: TETR06Lab Code: CHEMSAS No.: P5065SDG NO.: P5065Lab File ID: BN035405.DDFTPP Injection Date: 12/03/2024Instrument ID: BNA\_NDFTPP Injection Time: 15:56

| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 51  | 10.0 - 80.0% of mass 198           | 22.8                 |
| 68  | Less than 2.0% of mass 69          | 0.0 ( 0.0 ) 1        |
| 69  | Mass 69 relative abundance         | 30.2                 |
| 70  | Less than 2.0% of mass 69          | 0.1 ( 0.4 ) 1        |
| 127 | 10.0 - 80.0% of mass 198           | 40.9                 |
| 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            | 6.9                  |
| 275 | 10.0 - 60.0% of mass 198           | 28.3                 |
| 365 | Greater than 1% of mass 198        | 4.5                  |
| 441 | Present, but less than mass 443    | 11.6                 |
| 442 | Greater than 50% of mass 198       | 100                  |
| 443 | 15.0 - 24.0% of mass 442           | 14.1 ( 19 ) 2        |

1-Value is % mass 69

2-Value is % mass 442

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

| EPA<br>SAMPLE NO.   | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE<br>ANALYZED | TIME<br>ANALYZED |
|---------------------|------------------|----------------|------------------|------------------|
| SSTDCCC0.4          | SSTDCCC0.4       | BN035406.D     | 12/03/2024       | 16:35            |
| PB165348BL          | PB165348BL       | BN035407.D     | 12/03/2024       | 17:37            |
| PB165348BS          | PB165348BS       | BN035408.D     | 12/03/2024       | 18:13            |
| PB165348BSD         | PB165348BSD      | BN035409.D     | 12/03/2024       | 18:48            |
| RW7-SP200-20241202  | P5065-04         | BN035410.D     | 12/03/2024       | 19:24            |
| RW7-SP201-20241202  | P5065-05         | BN035411.D     | 12/03/2024       | 20:00            |
| RW7-SP300A-20241202 | P5065-06         | BN035412.D     | 12/03/2024       | 20:36            |
| SSTDCCC0.4EC        | SSTDCCC0.4       | BN035413.D     | 12/03/2024       | 21:11            |

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P5065 SAS No.: P5065 SDG NO.: P5065

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 12/03/2024

Lab File ID: BN035406.D Time Analyzed: 16:35

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            | 2015                | 7.3  | 5135                | 10.05  | 3625                | 13.96  |
| UPPER LIMIT            | 4030                | 7.8  | 10270               | 10.552 | 7250                | 14.457 |
| LOWER LIMIT            | 1007.5              | 6.8  | 2567.5              | 9.552  | 1812.5              | 13.457 |
| EPA SAMPLE NO.         |                     |      |                     |        |                     |        |
| 01 PB165348BL          | 1833                | 7.30 | 4526                | 10.05  | 3257                | 13.97  |
| 02 PB165348BS          | 2152                | 7.30 | 5114                | 10.05  | 3359                | 13.96  |
| 03 RW7-SP200-20241202  | 2075                | 7.31 | 5240                | 10.05  | 3772                | 13.96  |
| 04 PB165348BSD         | 1951                | 7.30 | 4691                | 10.05  | 3099                | 13.96  |
| 05 RW7-SP201-20241202  | 1851                | 7.31 | 4555                | 10.05  | 3248                | 13.97  |
| 06 RW7-SP300A-20241202 | 1636                | 7.31 | 4083                | 10.05  | 2951                | 13.96  |

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.: P5065 SAS No.: P5065 SDG NO.: P5065

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 12/03/2024

Lab File ID: BN035406.D Time Analyzed: 16:35

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            | 8862                | 16.723 | 8251                | 20.974 | 7832                | 23.07 |
| UPPER LIMIT            | 17724               | 17.223 | 16502               | 21.474 | 15664               | 23.57 |
| LOWER LIMIT            | 4431                | 16.223 | 4125.5              | 20.474 | 3916                | 22.57 |
| EPA SAMPLE NO.         |                     |        |                     |        |                     |       |
| 01 PB165348BL          | 8120                | 16.74  | 6937                | 20.98  | 6492                | 23.08 |
| 02 PB165348BS          | 8334                | 16.72  | 7507                | 20.97  | 6897                | 23.07 |
| 03 RW7-SP200-20241202  | 9570                | 16.72  | 8675                | 20.97  | 8373                | 23.06 |
| 04 PB165348BSD         | 7726                | 16.72  | 7120                | 20.97  | 6595                | 23.06 |
| 05 RW7-SP201-20241202  | 8127                | 16.74  | 6931                | 20.97  | 6312                | 23.07 |
| 06 RW7-SP300A-20241202 | 7433                | 16.72  | 6344                | 20.97  | 5799                | 23.07 |

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

\* Values outside of QC limits.



# SAMPLE DATA

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

## Report of Analysis

|                    |                      |                  |                 |                |      |
|--------------------|----------------------|------------------|-----------------|----------------|------|
| Client:            | Tetra Tech NUS, Inc. |                  | Date Collected: | 12/02/24       |      |
| Project:           | CTO WE13             |                  | Date Received:  | 12/03/24       |      |
| Client Sample ID:  | RW7-SP200-20241202   |                  | SDG No.:        | P5065          |      |
| Lab Sample ID:     | P5065-04             |                  | Matrix:         | Water          |      |
| Analytical Method: | SW8270SIM            |                  | % Solid:        | 0              |      |
| Sample Wt/Vol:     | 970                  | 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 :      | SW3510C              |                  |                 |                |      |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BN035410.D        | 1         | 12/03/24 12:30 | 12/03/24 19:24 | PB165348      |

| CAS Number                | Parameter               | Conc. | Qualifier | MDL      | LOD  | LOQ / CRQL | Units    |
|---------------------------|-------------------------|-------|-----------|----------|------|------------|----------|
| <b>TARGETS</b>            |                         |       |           |          |      |            |          |
| 123-91-1                  | 1,4-Dioxane             | 3.30  |           | 0.070    | 0.21 | 0.21       | ug/L     |
| <b>SURROGATES</b>         |                         |       |           |          |      |            |          |
| 7297-45-2                 | 2-Methylnaphthalene-d10 | 0.36  |           | 30 - 150 |      | 90%        | SPK: 0.4 |
| 93951-69-0                | Fluoranthene-d10        | 0.37  |           | 30 - 150 |      | 93%        | SPK: 0.4 |
| 4165-60-0                 | Nitrobenzene-d5         | 0.33  |           | 55 - 111 |      | 82%        | SPK: 0.4 |
| 321-60-8                  | 2-Fluorobiphenyl        | 0.37  |           | 53 - 106 |      | 91%        | SPK: 0.4 |
| 1718-51-0                 | Terphenyl-d14           | 0.54  | *         | 58 - 132 |      | 135%       | SPK: 0.4 |
| <b>INTERNAL STANDARDS</b> |                         |       |           |          |      |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4  | 2080  | 7.308     |          |      |            |          |
| 1146-65-2                 | Naphthalene-d8          | 5240  | 10.052    |          |      |            |          |
| 15067-26-2                | Acenaphthene-d10        | 3770  | 13.957    |          |      |            |          |
| 1517-22-2                 | Phenanthrene-d10        | 9570  | 16.723    |          |      |            |          |
| 1719-03-5                 | Chrysene-d12            | 8680  | 20.974    |          |      |            |          |
| 1520-96-3                 | Perylene-d12            | 8370  | 23.064    |          |      |            |          |

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\BN120424\  
Data File : BN035410.D  
Acq On : 03 Dec 2024 19:24  
Operator : RC/JU  
Sample : P5065-04  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP200-20241202

Quant Time: Dec 03 22:05:48 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

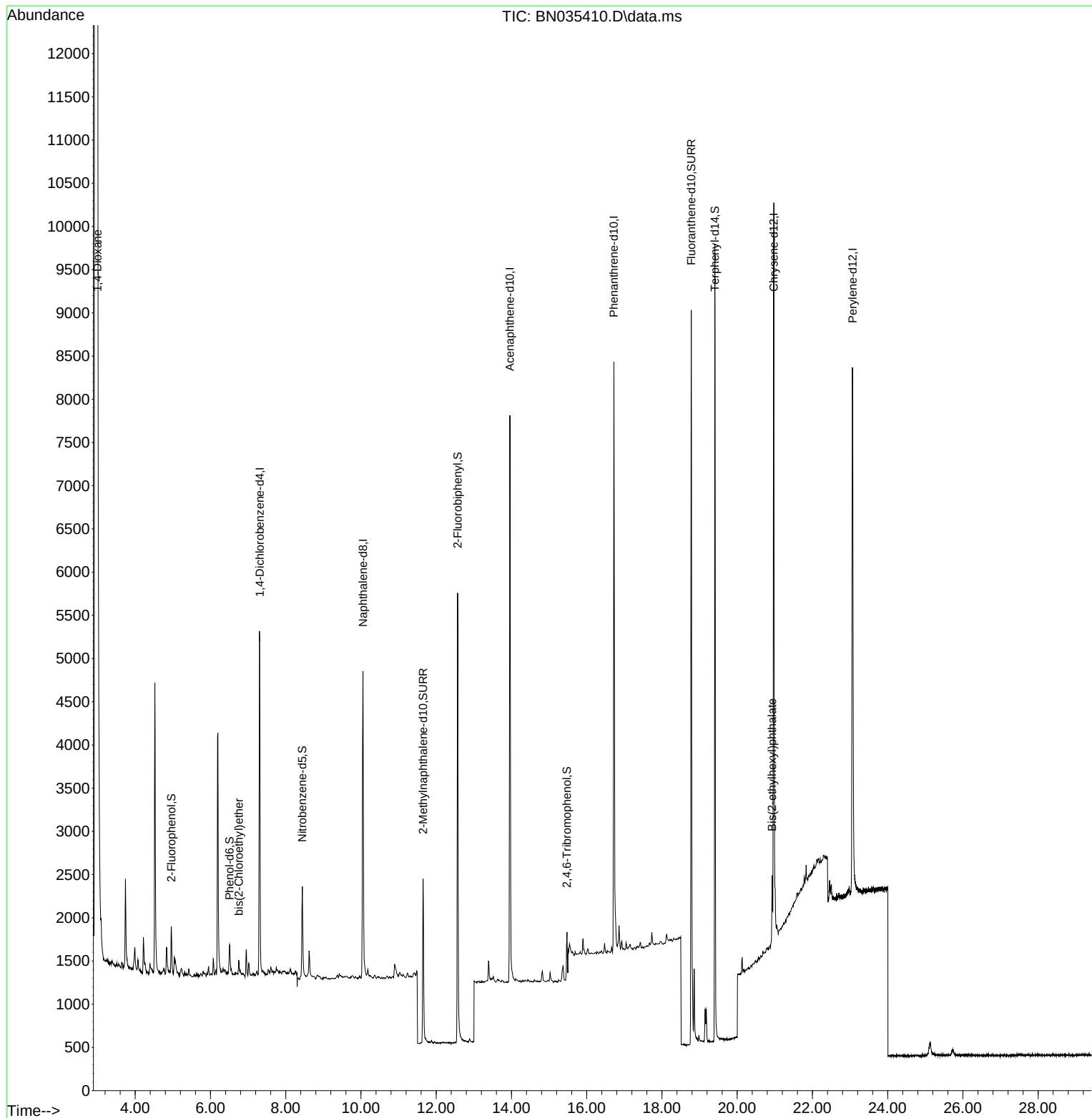
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.308  | 152  | 2075     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.052 | 136  | 5240     | 0.400 | ng    | # 0.00   |
| 13) Acenaphthene-d10          | 13.957 | 164  | 3772     | 0.400 | ng    | -0.01    |
| 19) Phenanthrene-d10          | 16.723 | 188  | 9570     | 0.400 | ng    | #-0.01   |
| 29) Chrysene-d12              | 20.974 | 240  | 8675     | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.064 | 264  | 8373     | 0.400 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 4.960  | 112  | 496      | 0.096 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.506  | 99   | 374      | 0.060 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.440  | 82   | 1048m    | 0.327 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.651 | 152  | 2970     | 0.362 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.475 | 330  | 530      | 0.198 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.569 | 172  | 5211     | 0.365 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 18.780 | 212  | 10124    | 0.373 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.407 | 244  | 9247     | 0.540 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
| 2) 1,4-Dioxane                | 2.996  | 88   | 6354     | 3.203 | ng    | 98       |
| 6) bis(2-Chloroethyl)ether    | 6.752  | 93   | 129      | 0.025 | ng    | 94       |
| 34) Bis(2-ethylhexyl)phtha... | 20.929 | 149  | 831      | 0.069 | ng    | # 93     |

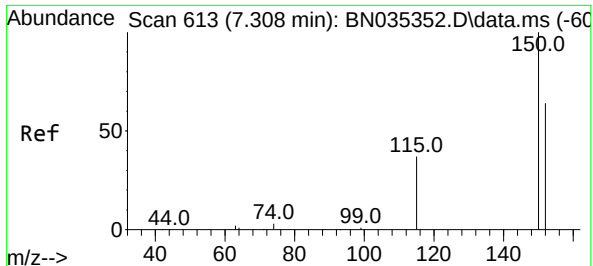
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN120424\  
Data File : BN035410.D  
Acq On : 03 Dec 2024 19:24  
Operator : RC/JU  
Sample : P5065-04  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP200-20241202

Quant Time: Dec 03 22:05:48 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

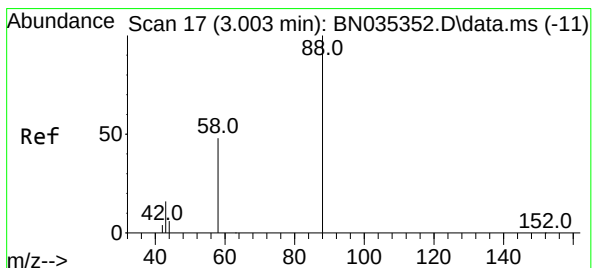
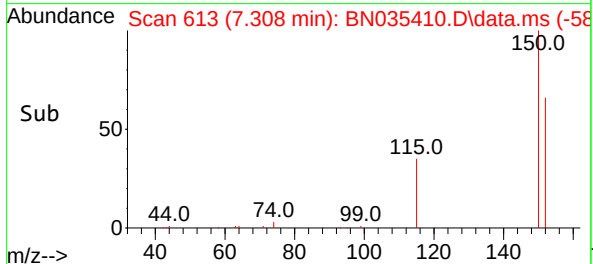
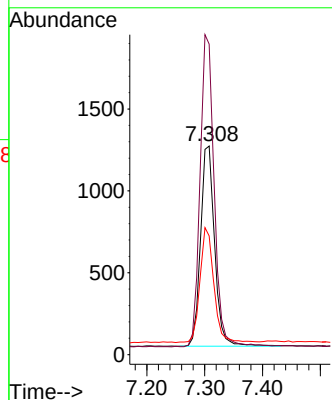
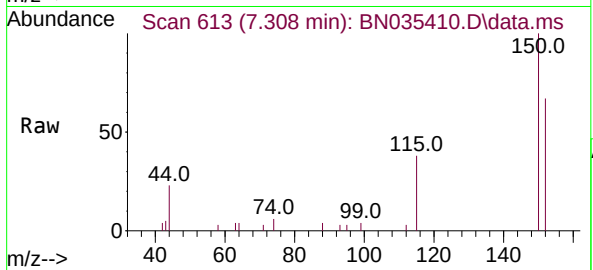




#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.308 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: BN035410.D  
Acq: 03 Dec 2024 19:24

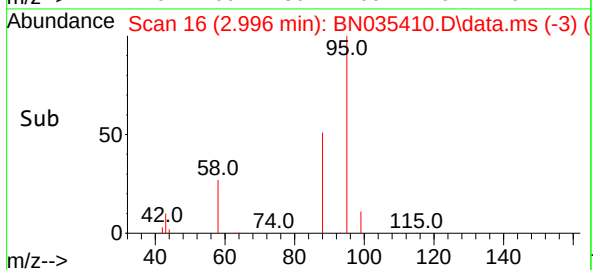
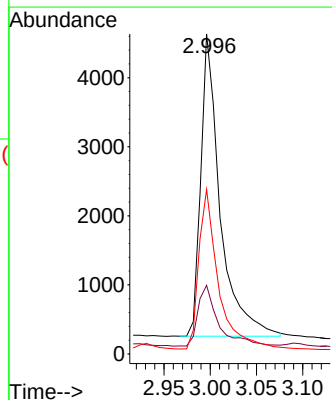
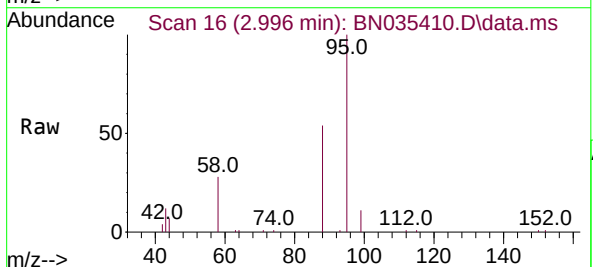
Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP200-20241202

Tgt Ion:152 Resp: 2075  
Ion Ratio Lower Upper  
152 100  
150 148.8 124.0 186.0  
115 56.9 49.6 74.4

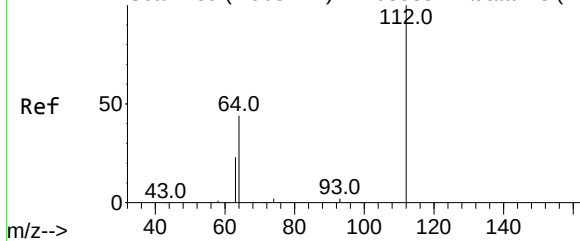


#2  
1,4-Dioxane  
Concen: 3.203 ng  
RT: 2.996 min Scan# 16  
Delta R.T. -0.007 min  
Lab File: BN035410.D  
Acq: 03 Dec 2024 19:24

Tgt Ion: 88 Resp: 6354  
Ion Ratio Lower Upper  
88 100  
43 21.5 17.2 25.8  
58 53.3 44.5 66.7



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



#4

2-Fluorophenol

Concen: 0.096 ng

RT: 4.960 min Scan# 21

Delta R.T. -0.007 min

Lab File: BN035410.D

Acq: 03 Dec 2024 19:24

Instrument :

BNA\_N

ClientSampleId :

RW7-SP200-20241202

Tgt Ion:112 Resp: 496

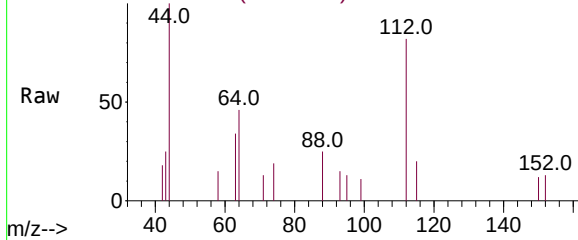
Ion Ratio Lower Upper

112 100

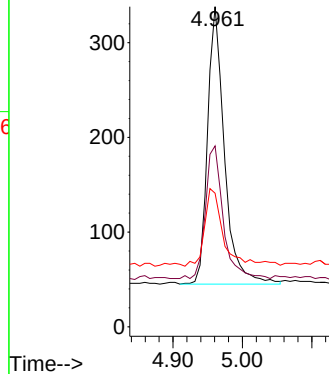
64 50.4 39.8 59.8

63 30.0 21.0 31.6

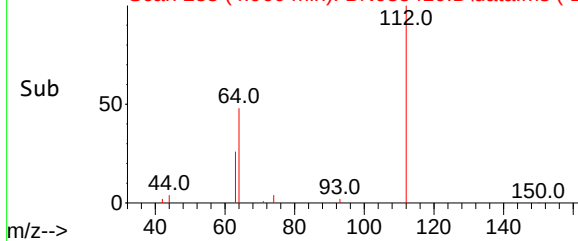
Abundance Scan 288 (4.960 min): BN035410.D\data.ms



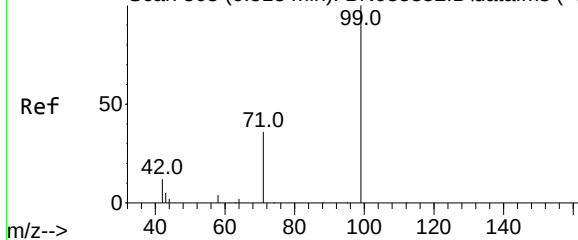
Abundance



Abundance Scan 288 (4.960 min): BN035410.D\data.ms (-26



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



#5

Phenol-d6

Concen: 0.060 ng

RT: 6.506 min Scan# 502

Delta R.T. -0.007 min

Lab File: BN035410.D

Acq: 03 Dec 2024 19:24

Tgt Ion: 99 Resp: 374

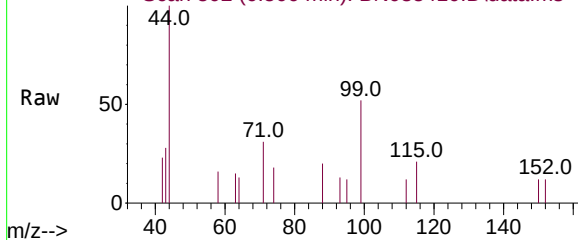
Ion Ratio Lower Upper

99 100

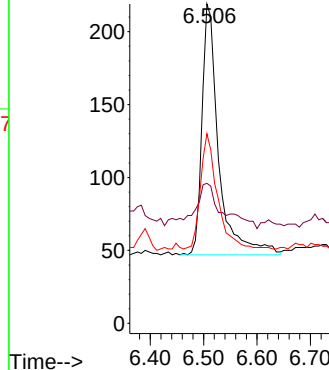
42 27.8 11.4 17.2#

71 46.8 29.3 43.9#

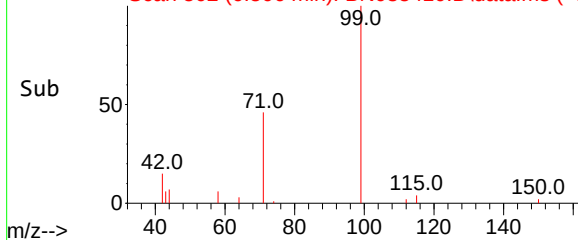
Abundance Scan 502 (6.506 min): BN035410.D\data.ms

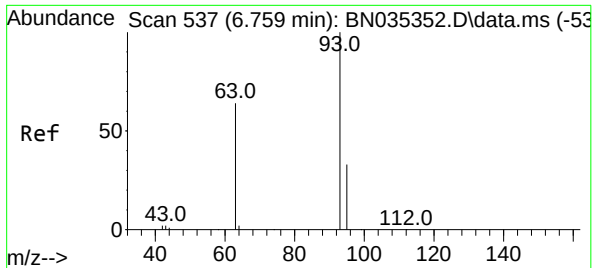


Abundance



Abundance Scan 502 (6.506 min): BN035410.D\data.ms (-47

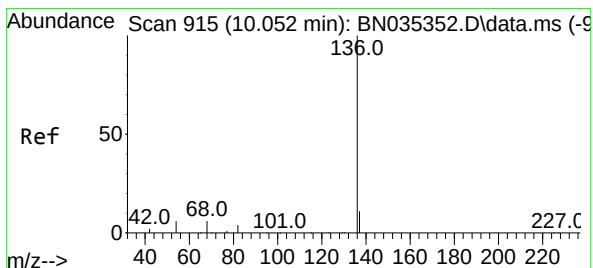
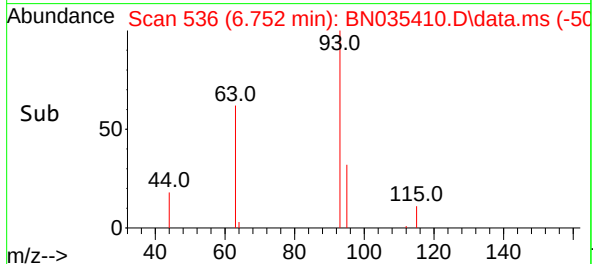
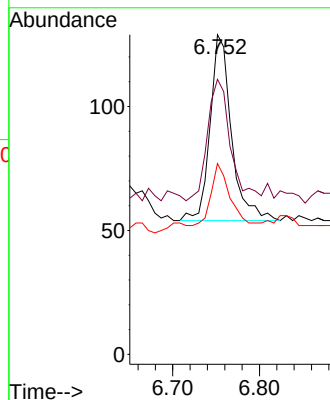
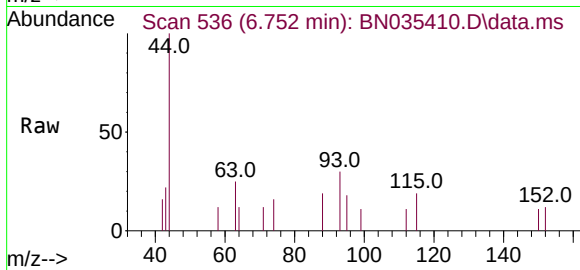




#6  
bis(2-Chloroethyl)ether  
Concen: 0.025 ng  
RT: 6.752 min Scan# 51  
Delta R.T. -0.007 min  
Lab File: BN035410.D  
Acq: 03 Dec 2024 19:24

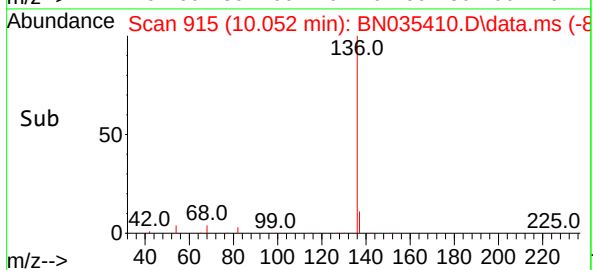
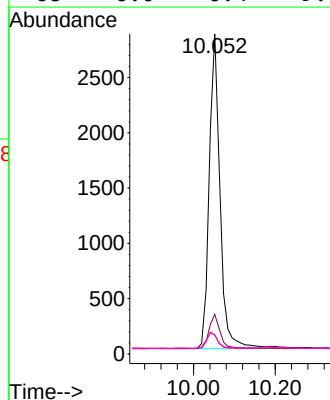
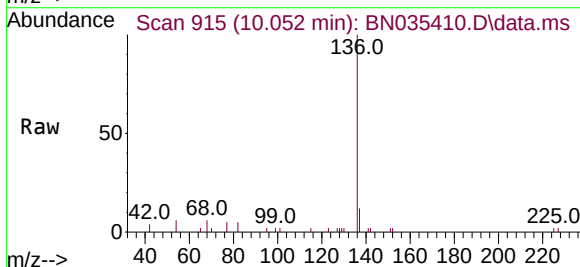
Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP200-20241202

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 93 | Resp: | 129         |
| Ion         | Ratio | Lower Upper |
| 93          | 100   |             |
| 63          | 69.8  | 50.4 75.6   |
| 95          | 31.8  | 25.7 38.5   |

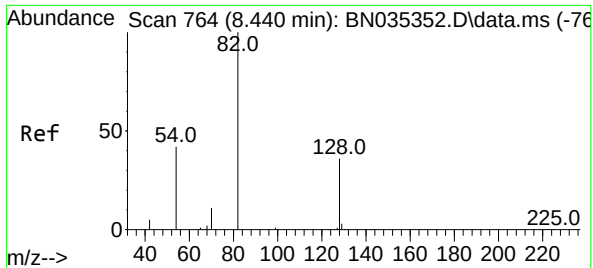


#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.052 min Scan# 915  
Delta R.T. 0.000 min  
Lab File: BN035410.D  
Acq: 03 Dec 2024 19:24

|              |       |             |
|--------------|-------|-------------|
| Tgt Ion: 136 | Resp: | 5240        |
| Ion          | Ratio | Lower Upper |
| 136          | 100   |             |
| 137          | 12.3  | 10.2 15.2   |
| 54           | 5.9   | 6.1 9.1#    |
| 68           | 6.0   | 6.4 9.6#    |



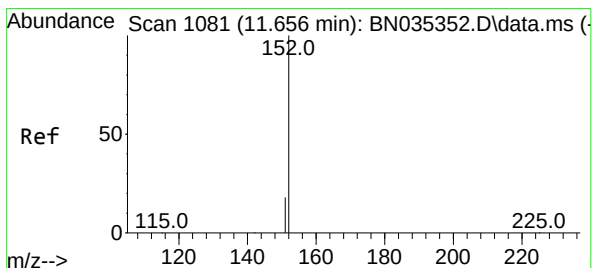
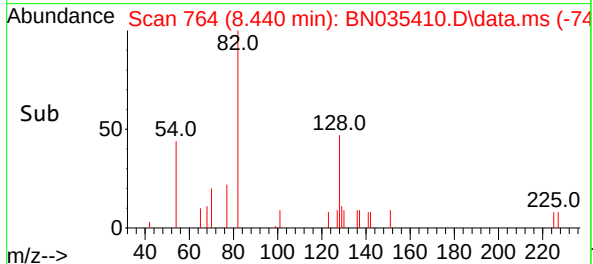
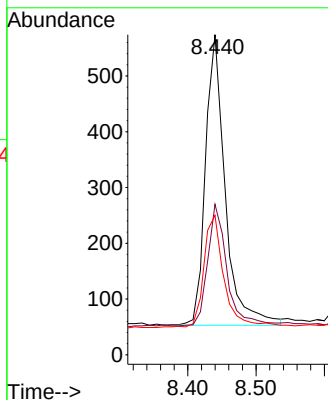
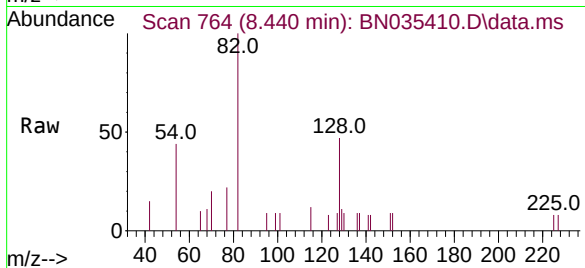




#8  
Nitrobenzene-d5  
Concen: 0.327 ng m  
RT: 8.440 min Scan# 7  
Delta R.T. 0.000 min  
Lab File: BN035410.D  
Acq: 03 Dec 2024 19:24

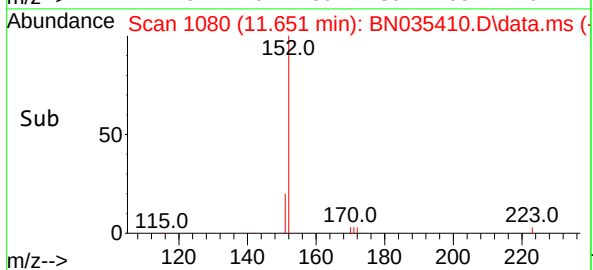
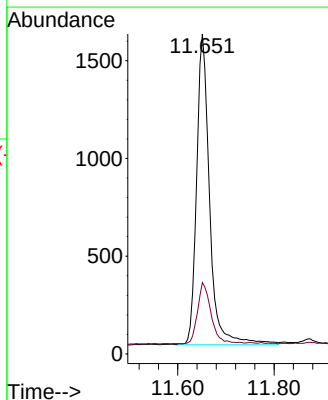
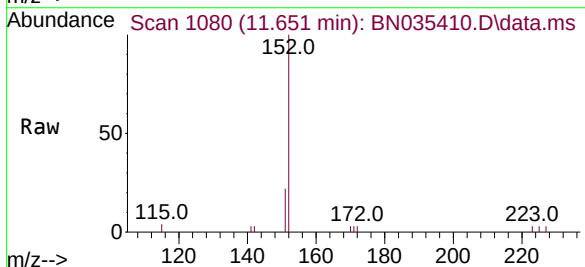
Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP200-20241202

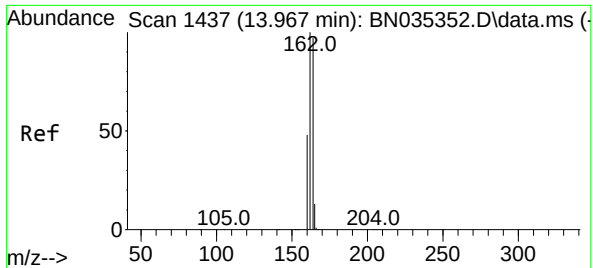
| Tgt Ion: | 82    | Resp: | 1048  |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 47.0  | 33.4  | 50.0  |
| 54       | 43.6  | 36.7  | 55.1  |



#11  
2-Methylnaphthalene-d10  
Concen: 0.362 ng  
RT: 11.651 min Scan# 1080  
Delta R.T. -0.005 min  
Lab File: BN035410.D  
Acq: 03 Dec 2024 19:24

| Tgt Ion: | 152   | Resp: | 2970  |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 152      | 100   |       |       |
| 151      | 20.6  | 16.6  | 25.0  |

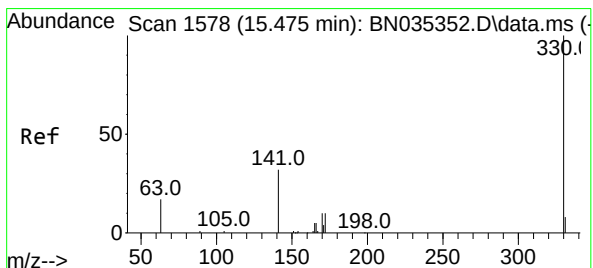
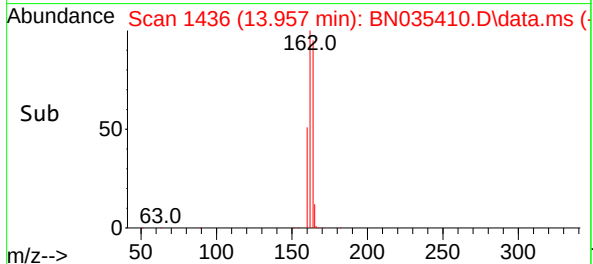
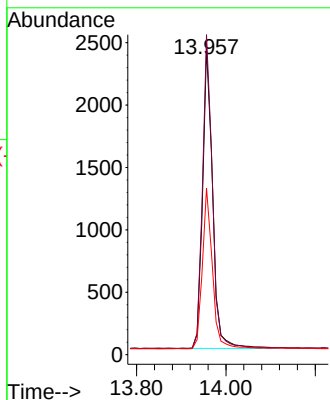
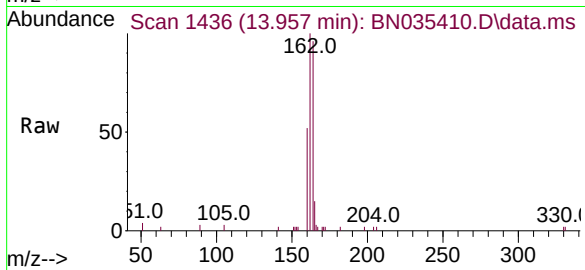




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.957 min Scan# 1437  
Delta R.T. -0.011 min  
Lab File: BN035410.D  
Acq: 03 Dec 2024 19:24

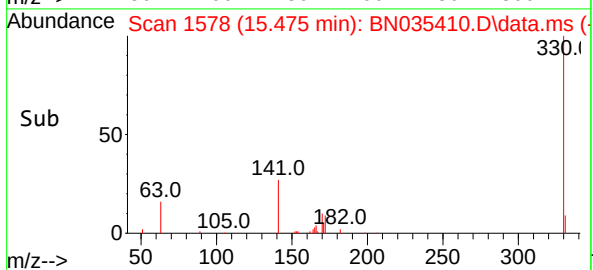
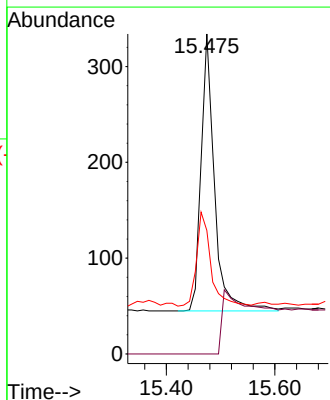
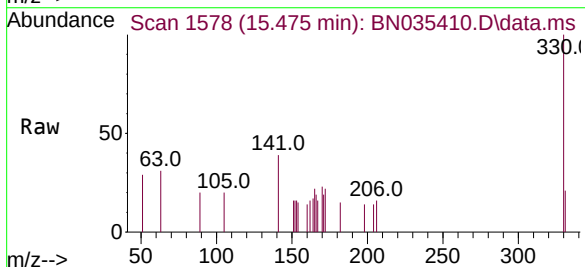
Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP200-20241202

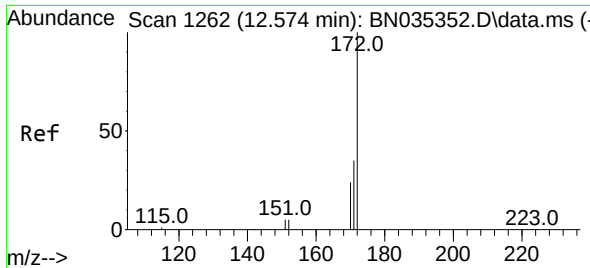
Tgt Ion:164 Resp: 3772  
Ion Ratio Lower Upper  
164 100  
162 104.5 82.2 123.2  
160 54.4 40.1 60.1



#14  
2,4,6-Tribromophenol  
Concen: 0.198 ng  
RT: 15.475 min Scan# 1578  
Delta R.T. 0.000 min  
Lab File: BN035410.D  
Acq: 03 Dec 2024 19:24

Tgt Ion:330 Resp: 530  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 35.3 26.6 40.0

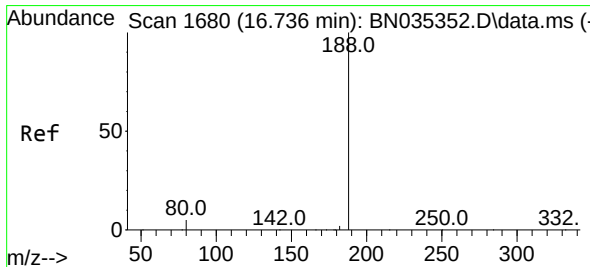
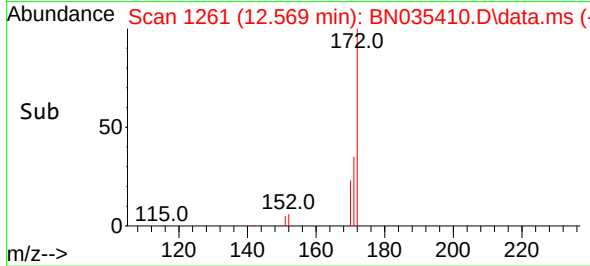
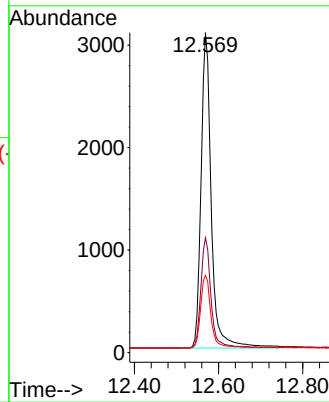
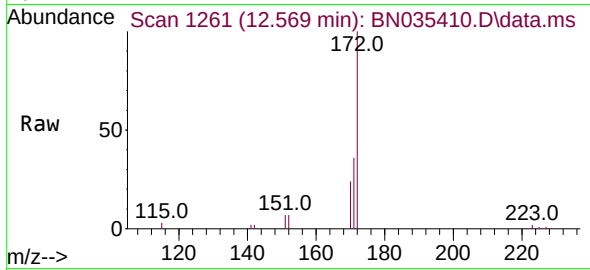




#15  
2-Fluorobiphenyl  
Concen: 0.365 ng  
RT: 12.569 min Scan# 11  
Delta R.T. -0.005 min  
Lab File: BN035410.D  
Acq: 03 Dec 2024 19:24

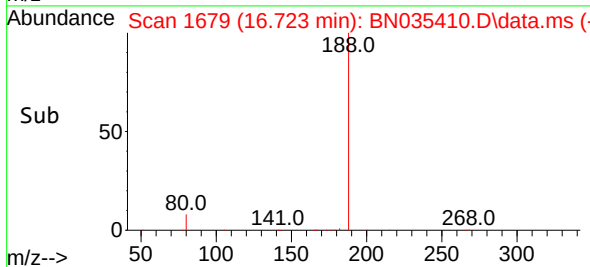
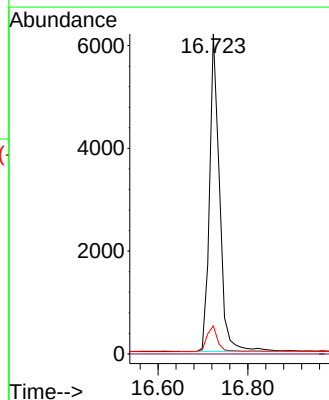
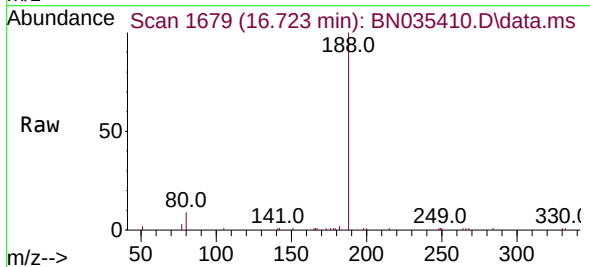
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BNA\_N  
ClientSampleId :  
RW7-SP200-20241202

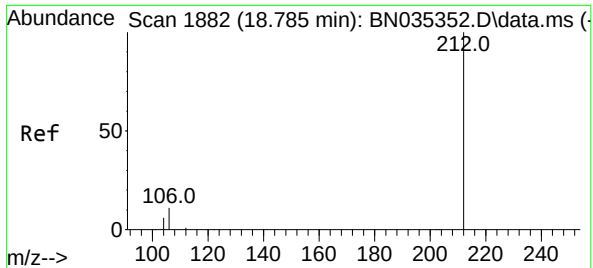
|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:172 | Resp: | 5211        |
| Ion         | Ratio | Lower Upper |
| 172         | 100   |             |
| 171         | 35.9  | 29.0 43.4   |
| 170         | 24.1  | 19.8 29.8   |



#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 16.723 min Scan# 1679  
Delta R.T. -0.012 min  
Lab File: BN035410.D  
Acq: 03 Dec 2024 19:24

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:188 | Resp: | 9570        |
| Ion         | Ratio | Lower Upper |
| 188         | 100   |             |
| 94          | 0.0   | 0.0 0.0     |
| 80          | 8.8   | 4.6 6.8#    |

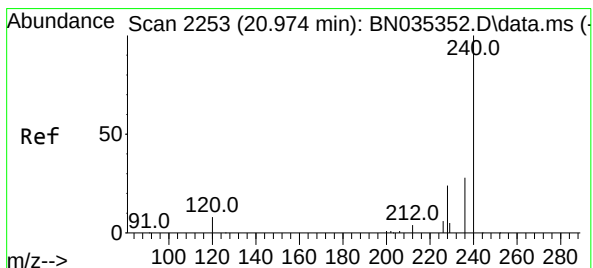
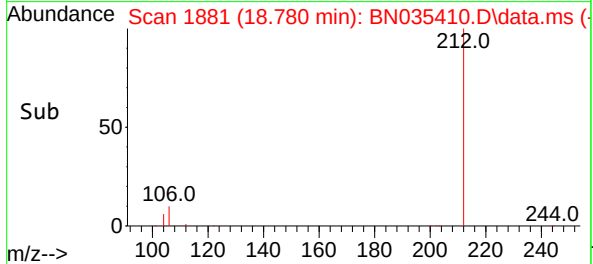
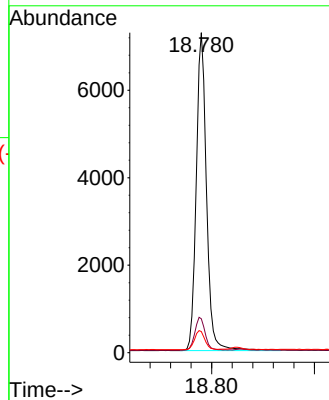
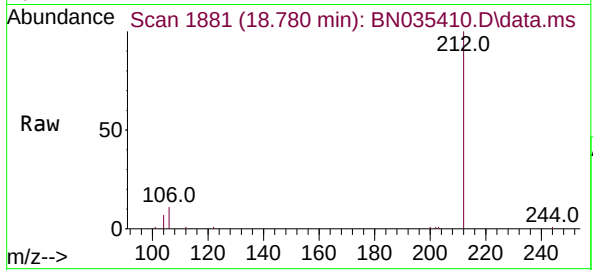




#27  
Fluoranthene-d10  
Concen: 0.373 ng  
RT: 18.780 min Scan# 1881  
Delta R.T. -0.005 min  
Lab File: BN035410.D  
Acq: 03 Dec 2024 19:24

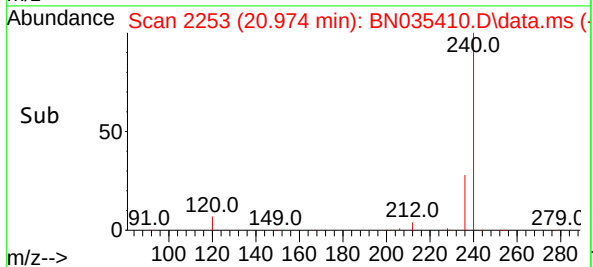
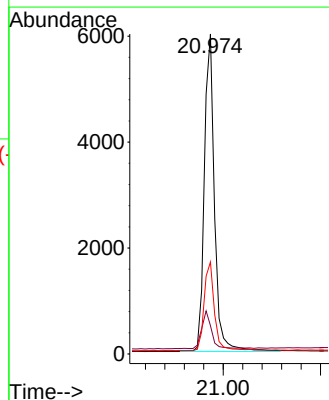
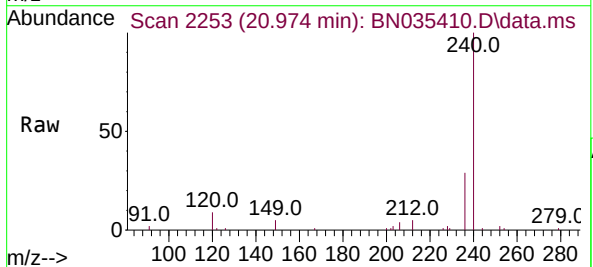
Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP200-20241202

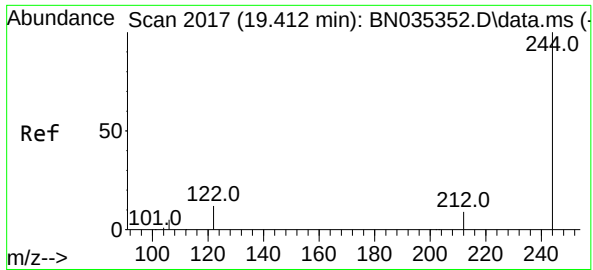
Tgt Ion:212 Resp: 10124  
Ion Ratio Lower Upper  
212 100  
106 10.5 9.2 13.8  
104 6.0 5.3 7.9



#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 20.974 min Scan# 2253  
Delta R.T. 0.000 min  
Lab File: BN035410.D  
Acq: 03 Dec 2024 19:24

Tgt Ion:240 Resp: 8675  
Ion Ratio Lower Upper  
240 100  
120 8.8 7.9 11.9  
236 28.8 22.9 34.3

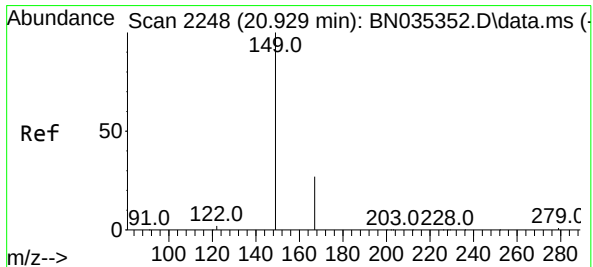
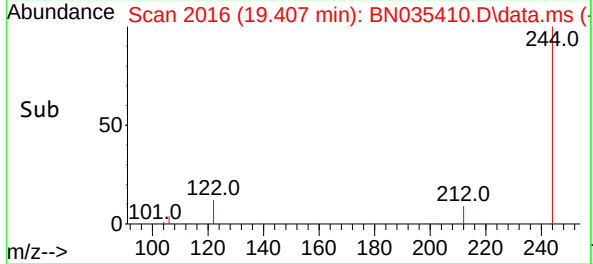
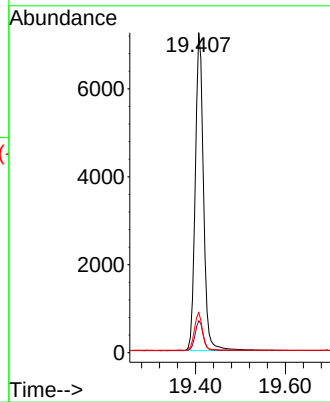
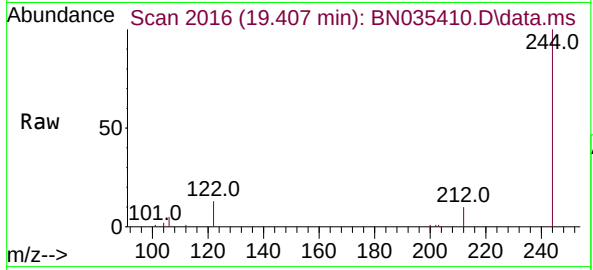




#31  
Terphenyl-d14  
Concen: 0.540 ng  
RT: 19.407 min Scan# 2017  
Delta R.T. -0.005 min  
Lab File: BN035410.D  
Acq: 03 Dec 2024 19:24

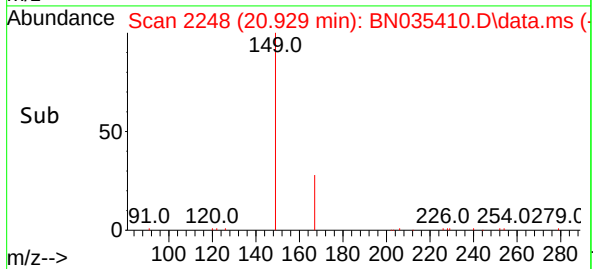
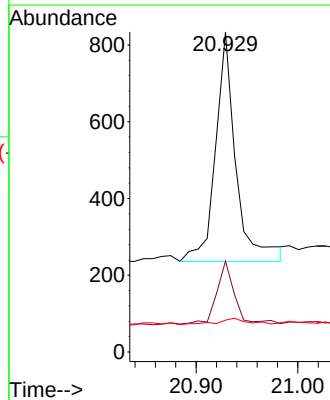
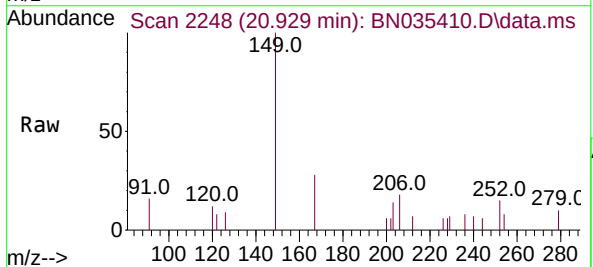
Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP200-20241202

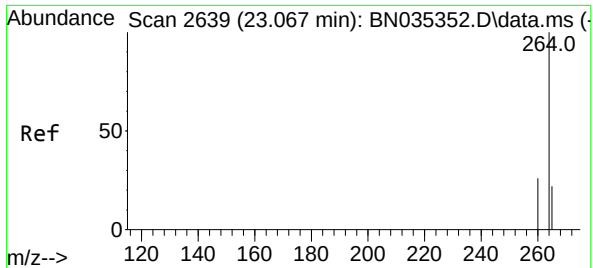
Tgt Ion:244 Resp: 9247  
Ion Ratio Lower Upper  
244 100  
212 10.0 8.1 12.1  
122 12.6 10.3 15.5



#34  
Bis(2-ethylhexyl)phthalate  
Concen: 0.069 ng  
RT: 20.929 min Scan# 2248  
Delta R.T. 0.000 min  
Lab File: BN035410.D  
Acq: 03 Dec 2024 19:24

Tgt Ion:149 Resp: 831  
Ion Ratio Lower Upper  
149 100  
167 23.7 22.2 33.4  
279 4.2 2.7 4.1#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.064 min Scan# 20

Delta R.T. -0.003 min

Lab File: BN035410.D

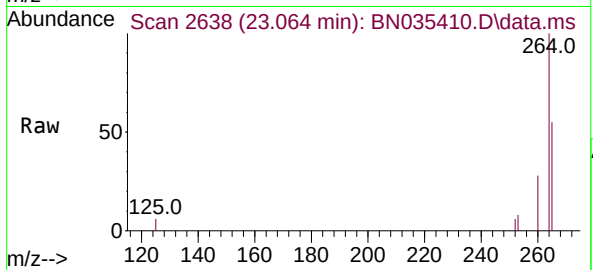
Acq: 03 Dec 2024 19:24

Instrument :

BNA\_N

ClientSampleId :

RW7-SP200-20241202



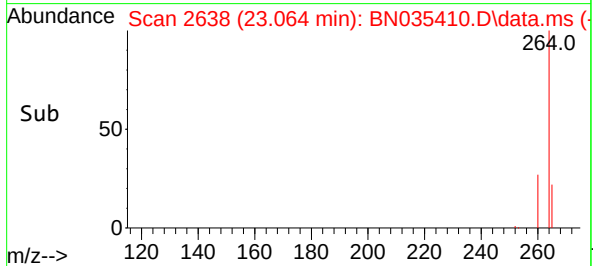
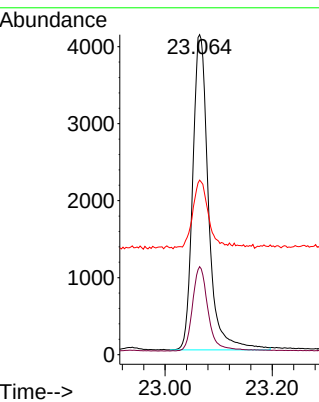
Tgt Ion:264 Resp: 8373

Ion Ratio Lower Upper

264 100

260 27.5 21.4 32.2

265 54.6 40.2 60.4



## Report of Analysis

|                    |                      |                  |                 |                |      |
|--------------------|----------------------|------------------|-----------------|----------------|------|
| Client:            | Tetra Tech NUS, Inc. |                  | Date Collected: | 12/02/24       |      |
| Project:           | CTO WE13             |                  | Date Received:  | 12/03/24       |      |
| Client Sample ID:  | RW7-SP201-20241202   |                  | SDG No.:        | P5065          |      |
| Lab Sample ID:     | P5065-05             |                  | Matrix:         | Water          |      |
| Analytical Method: | SW8270SIM            |                  | % Solid:        | 0              |      |
| Sample Wt/Vol:     | 980                  | Units: mL        | Final Vol:      | 1000           | uL   |
| Soil Aliquot Vol:  |                      | uL               | Test:           | SVOC-SIMGroup1 |      |
| Extraction Type :  |                      | Decanted : N     | Level :         | LOW            |      |
| Injection Volume : |                      | GPC Factor : 1.0 | GPC Cleanup :   | N              | PH : |
| Prep Method :      | SW3510C              |                  |                 |                |      |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BN035411.D        | 1         | 12/03/24 12:30 | 12/03/24 20:00 | PB165348      |

| 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 | 0.36  |           | 30 - 150 |      | 89%        | SPK: 0.4 |
| 93951-69-0                | Fluoranthene-d10        | 0.38  |           | 30 - 150 |      | 94%        | SPK: 0.4 |
| 4165-60-0                 | Nitrobenzene-d5         | 0.35  |           | 55 - 111 |      | 88%        | SPK: 0.4 |
| 321-60-8                  | 2-Fluorobiphenyl        | 0.36  |           | 53 - 106 |      | 90%        | SPK: 0.4 |
| 1718-51-0                 | Terphenyl-d14           | 0.58  | *         | 58 - 132 |      | 145%       | SPK: 0.4 |
| <b>INTERNAL STANDARDS</b> |                         |       |           |          |      |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4  | 1850  | 7.308     |          |      |            |          |
| 1146-65-2                 | Naphthalene-d8          | 4560  | 10.052    |          |      |            |          |
| 15067-26-2                | Acenaphthene-d10        | 3250  | 13.967    |          |      |            |          |
| 1517-22-2                 | Phenanthrene-d10        | 8130  | 16.736    |          |      |            |          |
| 1719-03-5                 | Chrysene-d12            | 6930  | 20.974    |          |      |            |          |
| 1520-96-3                 | Perylene-d12            | 6310  | 23.067    |          |      |            |          |

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\BN120424\  
Data File : BN035411.D  
Acq On : 03 Dec 2024 20:00  
Operator : RC/JU  
Sample : P5065-05  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP201-20241202

Quant Time: Dec 03 22:06:00 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  | 1851     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.052 | 136  | 4555     | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 13.967 | 164  | 3248     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 16.736 | 188  | 8127     | 0.400 | ng    | # 0.00   |
| 29) Chrysene-d12              | 20.974 | 240  | 6931     | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.067 | 264  | 6312     | 0.400 | ng    | # 0.00   |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 4.961  | 112  | 428      | 0.092 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.513  | 99   | 268      | 0.048 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.440  | 82   | 974m     | 0.350 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.656 | 152  | 2531     | 0.355 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.485 | 330  | 441      | 0.191 | ng    | 0.01     |
| 15) 2-Fluorobiphenyl          | 12.574 | 172  | 4425     | 0.360 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 18.780 | 212  | 8690     | 0.377 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.407 | 244  | 7900     | 0.578 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
| 2) 1,4-Dioxane                | 3.003  | 88   | 109      | 0.062 | ng    | # 68     |
| 34) Bis(2-ethylhexyl)phtha... | 20.929 | 149  | 402      | 0.042 | ng    | 93       |

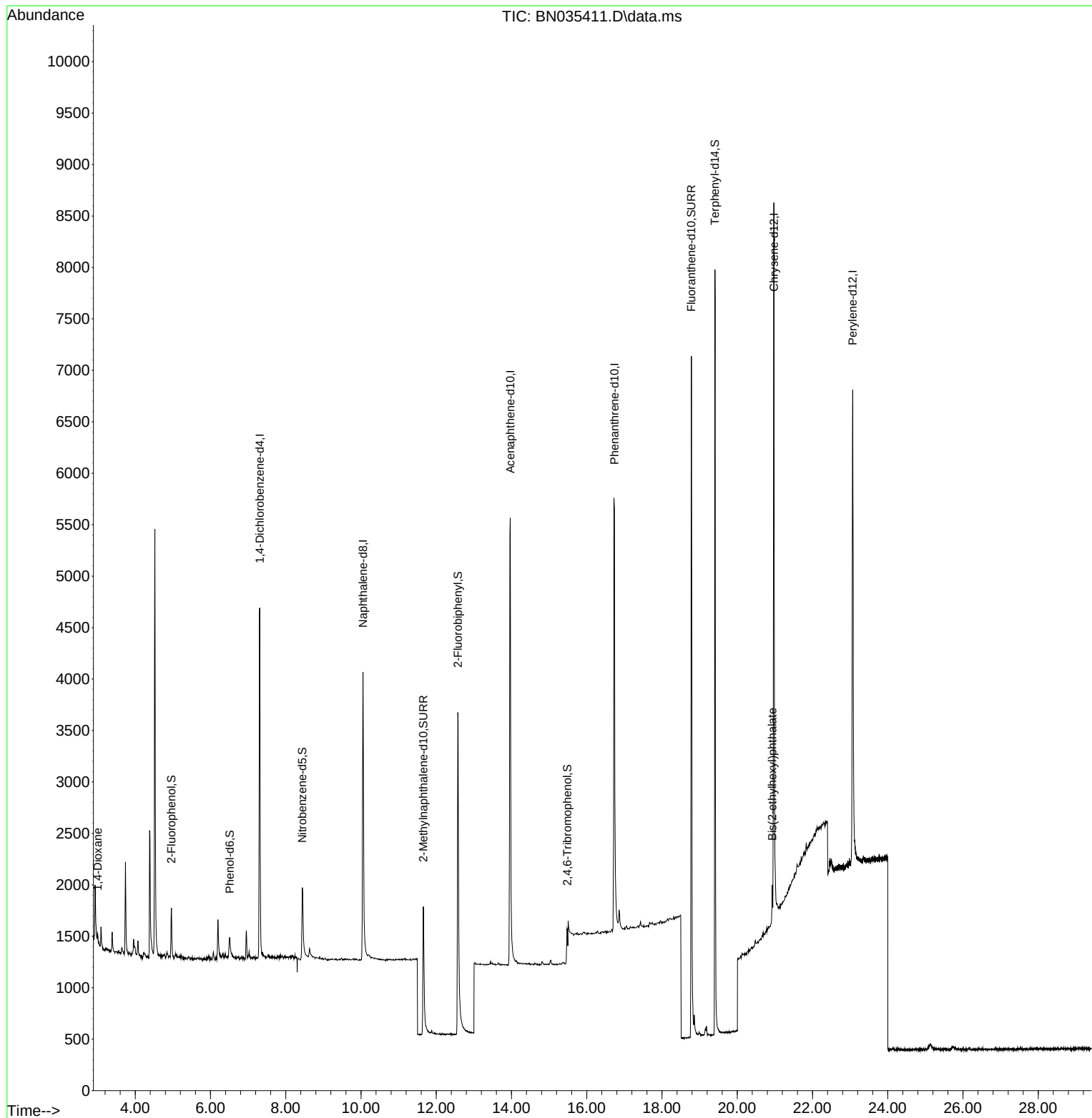
(#) = qualifier out of range (m) = manual integration (+) = signals summed

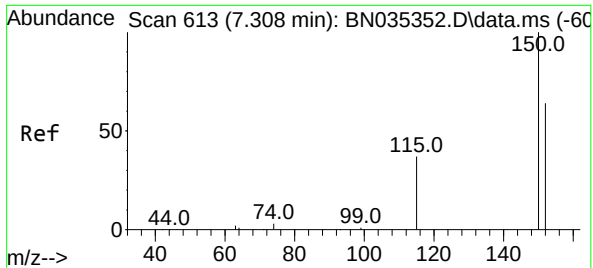


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Data File : BN035411.D  
Acq On : 03 Dec 2024 20:00  
Operator : RC/JU  
Sample : P5065-05  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP201-20241202

Quant Time: Dec 03 22:06:00 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

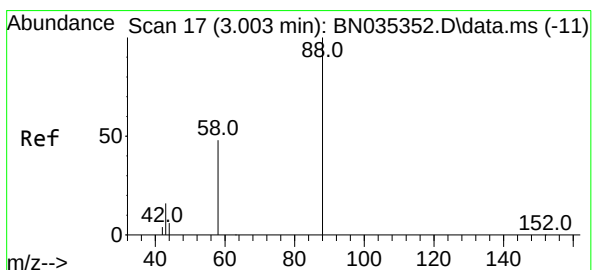
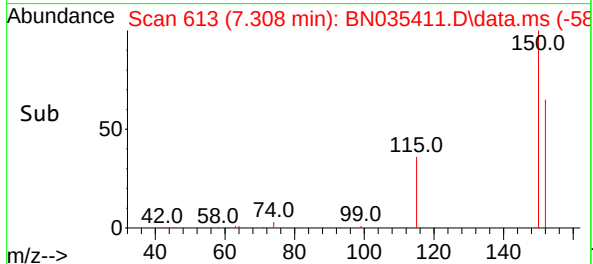
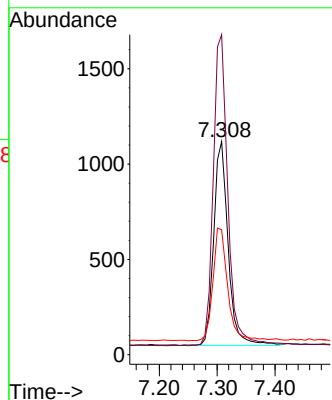
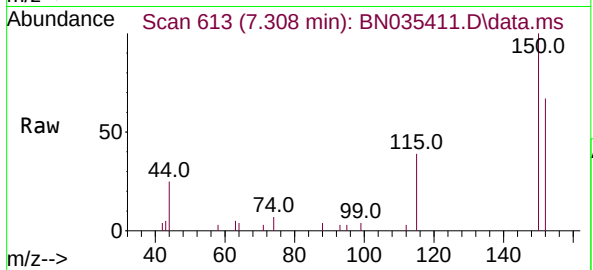




#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.308 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: BN035411.D  
Acq: 03 Dec 2024 20:00

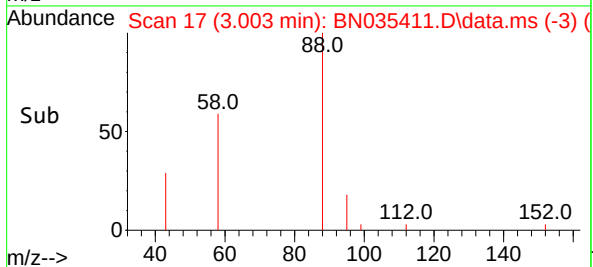
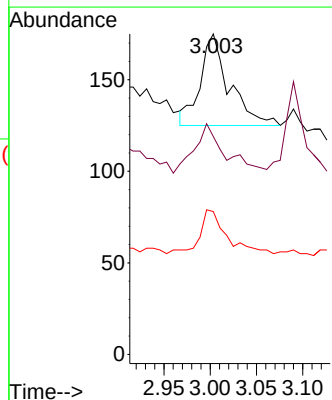
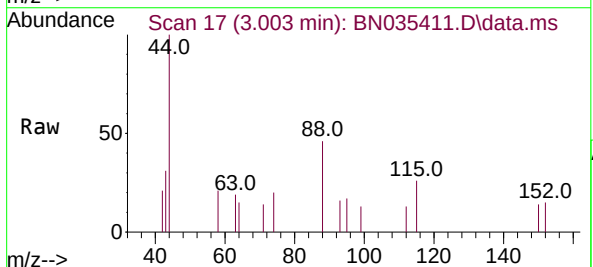
Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP201-20241202

Tgt Ion:152 Resp: 1851  
Ion Ratio Lower Upper  
152 100  
150 150.2 124.0 186.0  
115 58.7 49.6 74.4

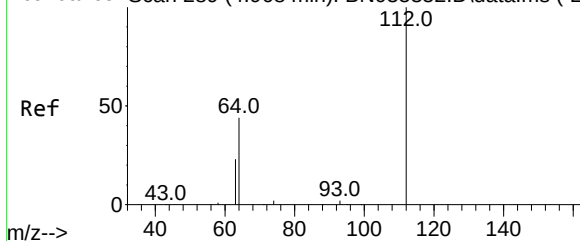


#2  
1,4-Dioxane  
Concen: 0.062 ng  
RT: 3.003 min Scan# 17  
Delta R.T. 0.000 min  
Lab File: BN035411.D  
Acq: 03 Dec 2024 20:00

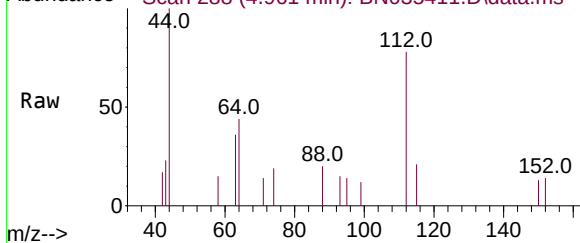
Tgt Ion: 88 Resp: 109  
Ion Ratio Lower Upper  
88 100  
43 56.9 17.2 25.8#  
58 44.0 44.5 66.7#



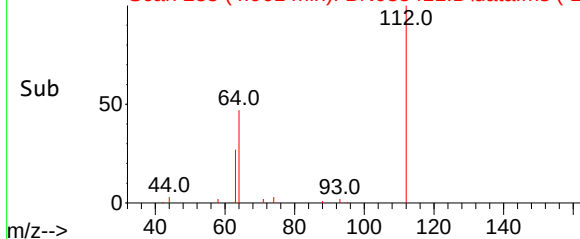
Abundance Scan 289 (4.968 min): BN035352.D\data.ms (-28



Abundance Scan 288 (4.961 min): BN035411.D\data.ms



Abundance Scan 288 (4.961 min): BN035411.D\data.ms (-26



#4

2-Fluorophenol

Concen: 0.092 ng

RT: 4.961 min Scan# 21

Delta R.T. -0.007 min

Lab File: BN035411.D

Acq: 03 Dec 2024 20:00

Instrument :

BNA\_N

ClientSampleId :

RW7-SP201-20241202

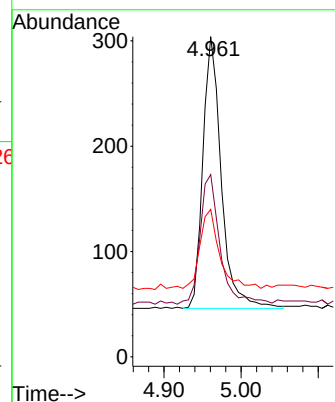
Tgt Ion:112 Resp: 428

Ion Ratio Lower Upper

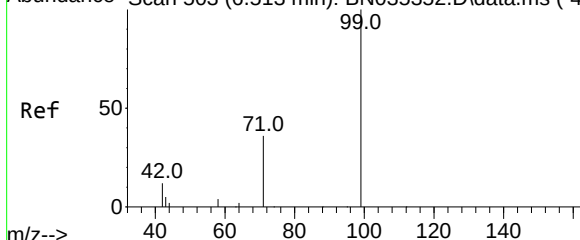
112 100

64 51.6 39.8 59.8

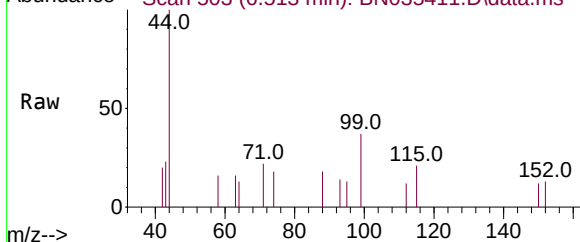
63 30.6 21.0 31.6



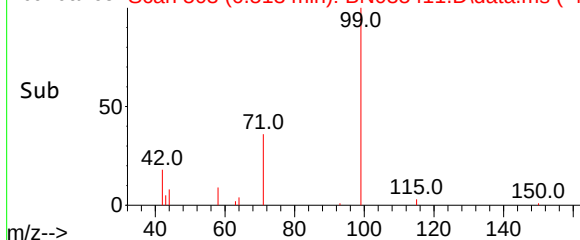
Abundance Scan 503 (6.513 min): BN035352.D\data.ms (-49



Abundance Scan 503 (6.513 min): BN035411.D\data.ms



Abundance Scan 503 (6.513 min): BN035411.D\data.ms (-47



#5

Phenol-d6

Concen: 0.048 ng

RT: 6.513 min Scan# 503

Delta R.T. 0.000 min

Lab File: BN035411.D

Acq: 03 Dec 2024 20:00

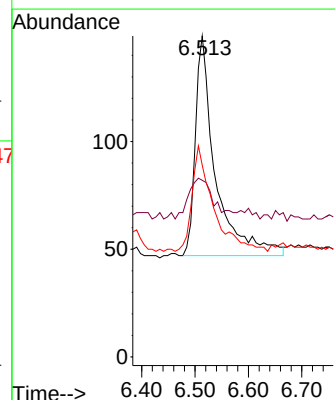
Tgt Ion: 99 Resp: 268

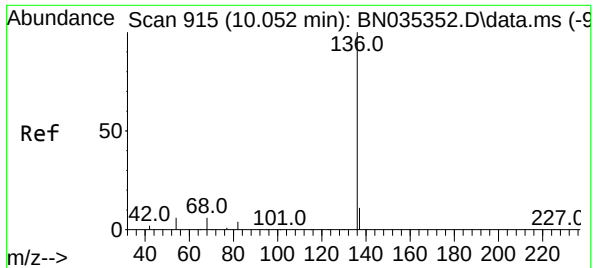
Ion Ratio Lower Upper

99 100

42 23.1 11.4 17.2#

71 50.7 29.3 43.9#

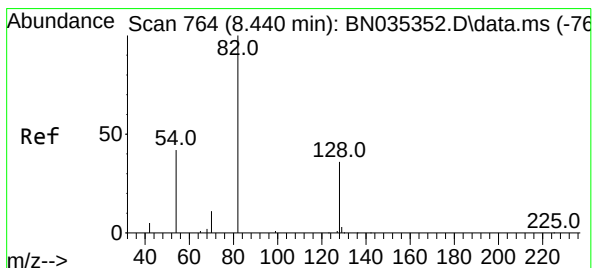
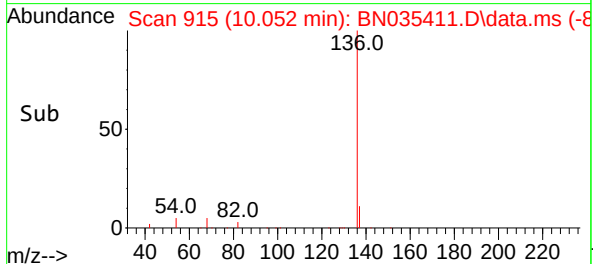
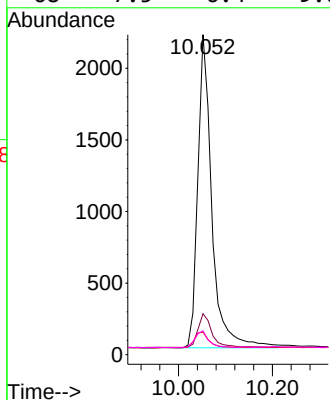
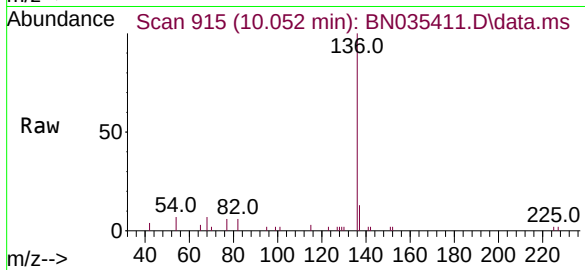




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.052 min Scan# 915  
Delta R.T. 0.000 min  
Lab File: BN035411.D  
Acq: 03 Dec 2024 20:00

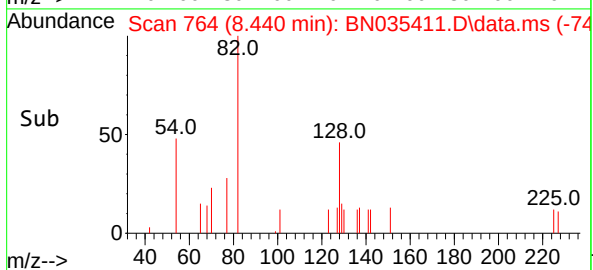
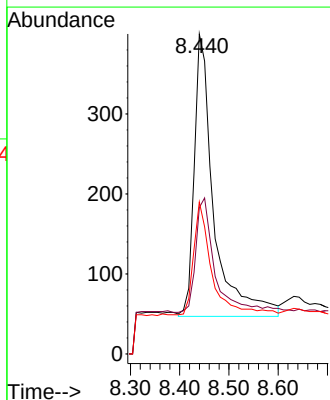
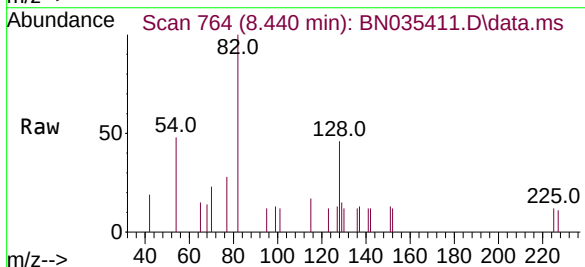
Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP201-20241202

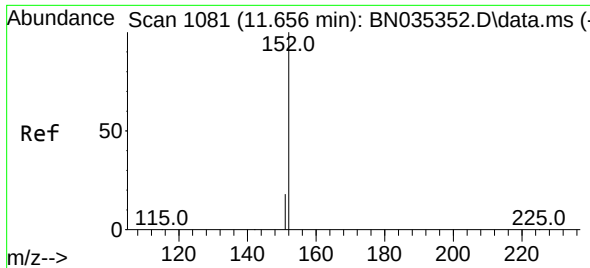
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 4555  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 12.8  | 10.2  | 15.2  |
| 54       | 7.1   | 6.1   | 9.1   |
| 68       | 7.5   | 6.4   | 9.6   |



#8  
Nitrobenzene-d5  
Concen: 0.350 ng m  
RT: 8.440 min Scan# 764  
Delta R.T. 0.000 min  
Lab File: BN035411.D  
Acq: 03 Dec 2024 20:00

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 974   |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 45.8  | 33.4  | 50.0  |
| 54       | 47.5  | 36.7  | 55.1  |

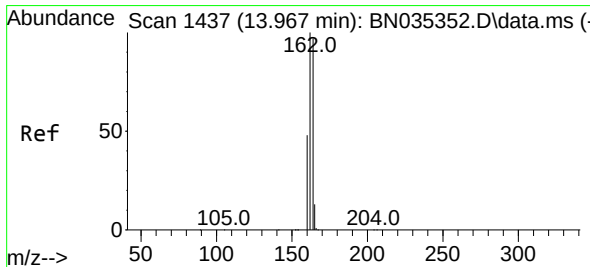
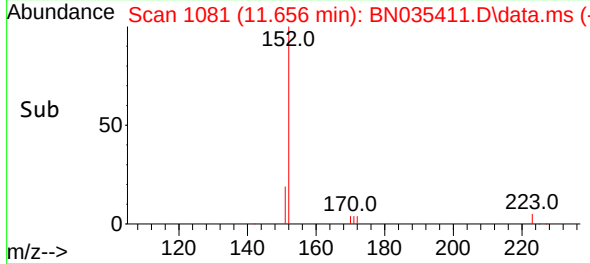
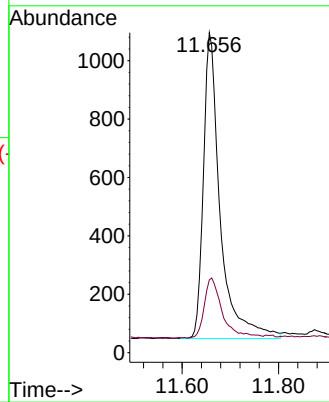
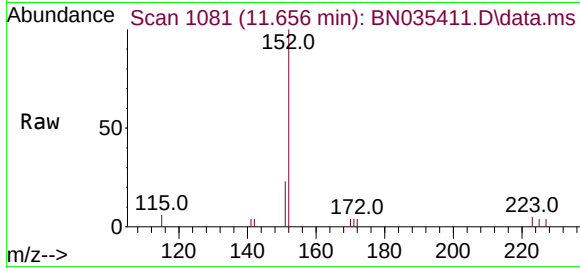




#11  
2-Methylnaphthalene-d10  
Concen: 0.355 ng  
RT: 11.656 min Scan# 1081  
Delta R.T. 0.000 min  
Lab File: BN035411.D  
Acq: 03 Dec 2024 20:00

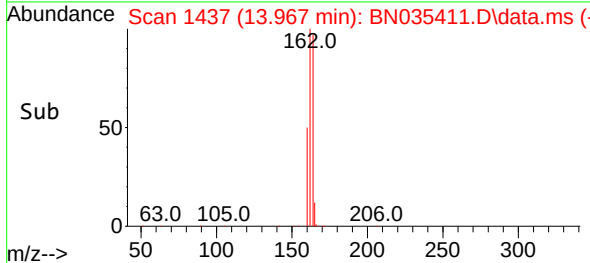
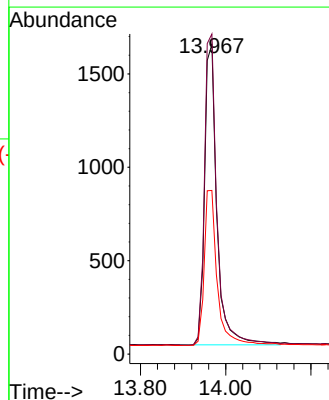
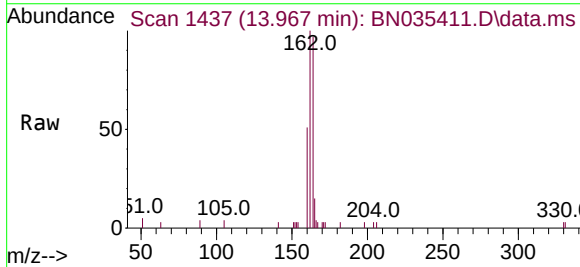
Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP201-20241202

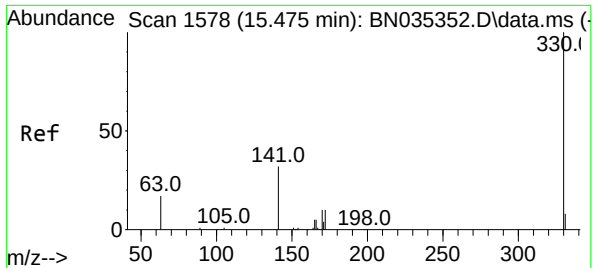
Tgt Ion:152 Resp: 2531  
Ion Ratio Lower Upper  
152 100  
151 21.2 16.6 25.0



#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.967 min Scan# 1437  
Delta R.T. 0.000 min  
Lab File: BN035411.D  
Acq: 03 Dec 2024 20:00

Tgt Ion:164 Resp: 3248  
Ion Ratio Lower Upper  
164 100  
162 103.3 82.2 123.2  
160 52.8 40.1 60.1





#14

2,4,6-Tribromophenol

Concen: 0.191 ng

RT: 15.485 min Scan# 1579

Delta R.T. 0.011 min

Lab File: BN035411.D

Acq: 03 Dec 2024 20:00

Instrument :

BNA\_N

ClientSampleId :

RW7-SP201-20241202

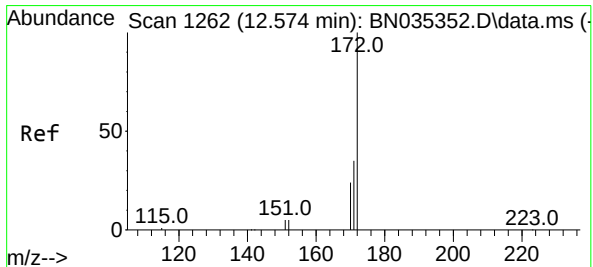
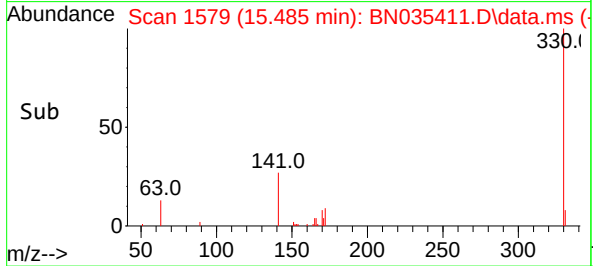
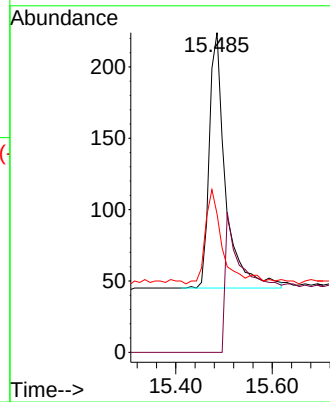
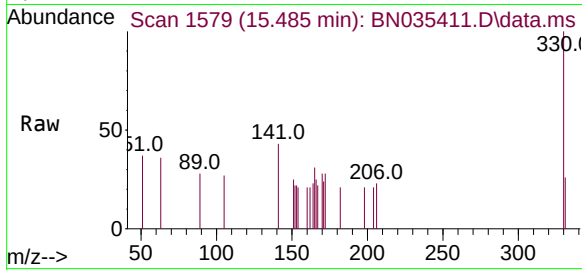
Tgt Ion:330 Resp: 441

Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

141 40.8 26.6 40.0#



#15

2-Fluorobiphenyl

Concen: 0.360 ng

RT: 12.574 min Scan# 1262

Delta R.T. 0.000 min

Lab File: BN035411.D

Acq: 03 Dec 2024 20:00

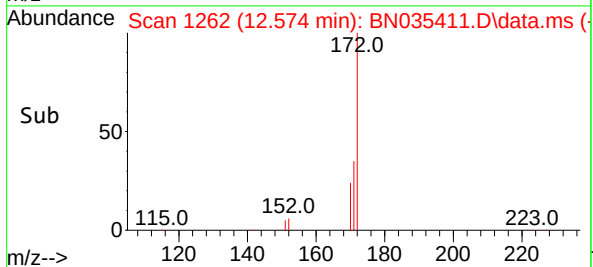
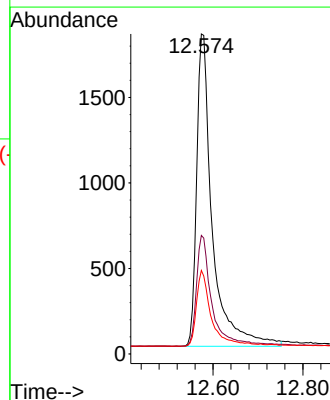
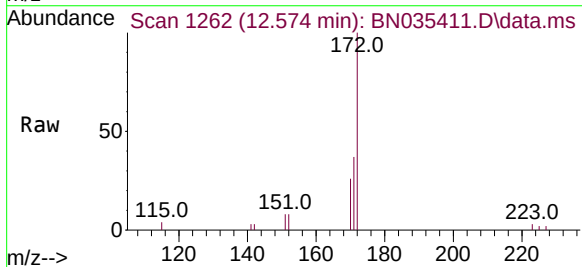
Tgt Ion:172 Resp: 4425

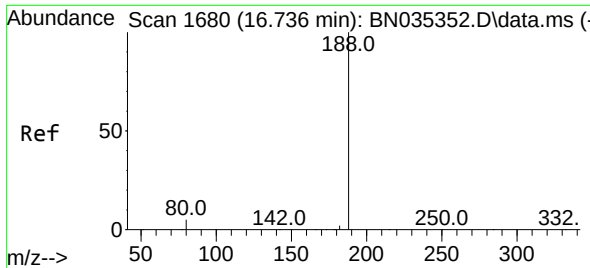
Ion Ratio Lower Upper

172 100

171 37.0 29.0 43.4

170 26.1 19.8 29.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.736 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN035411.D

Acq: 03 Dec 2024 20:00

Instrument :

BNA\_N

ClientSampleId :

RW7-SP201-20241202

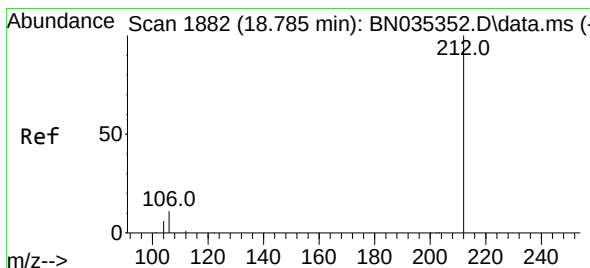
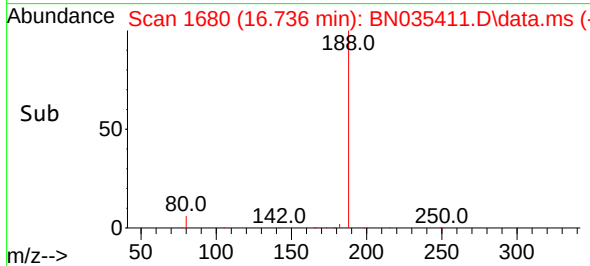
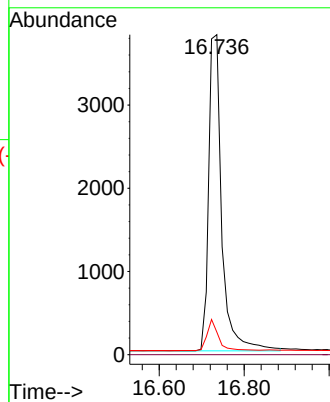
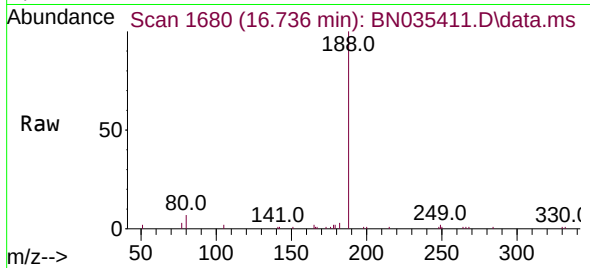
Tgt Ion:188 Resp: 8127

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 7.0 4.6 6.8#



#27

Fluoranthene-d10

Concen: 0.377 ng

RT: 18.780 min Scan# 1881

Delta R.T. -0.005 min

Lab File: BN035411.D

Acq: 03 Dec 2024 20:00

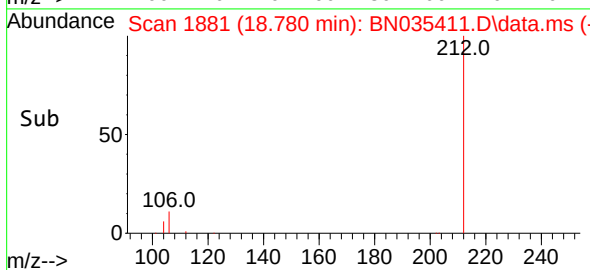
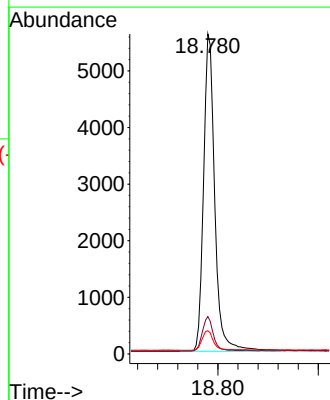
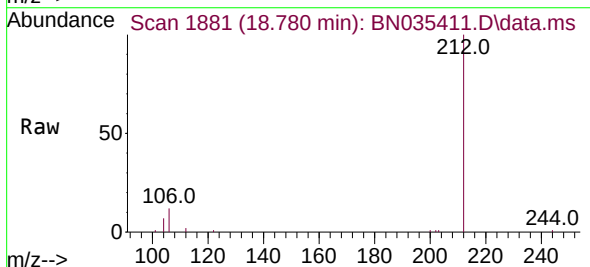
Tgt Ion:212 Resp: 8690

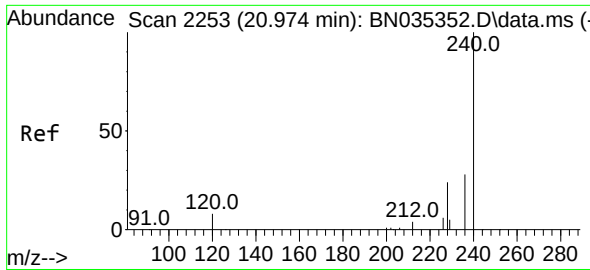
Ion Ratio Lower Upper

212 100

106 10.5 9.2 13.8

104 6.5 5.3 7.9





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.974 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN035411.D

Acq: 03 Dec 2024 20:00

Instrument :

BNA\_N

ClientSampleId :

RW7-SP201-20241202

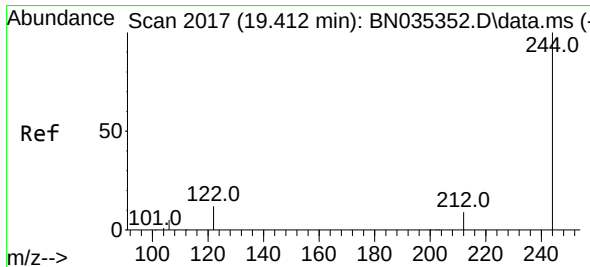
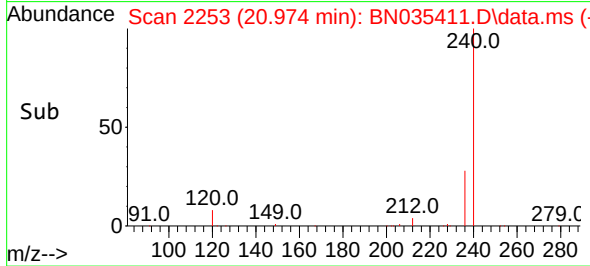
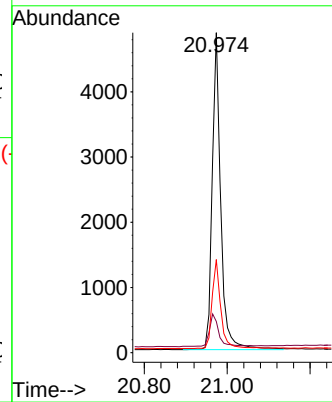
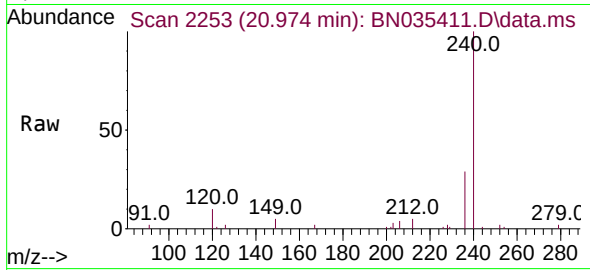
Tgt Ion:240 Resp: 6931

Ion Ratio Lower Upper

240 100

120 9.7 7.9 11.9

236 29.1 22.9 34.3



#31

Terphenyl-d14

Concen: 0.578 ng

RT: 19.407 min Scan# 2016

Delta R.T. -0.005 min

Lab File: BN035411.D

Acq: 03 Dec 2024 20:00

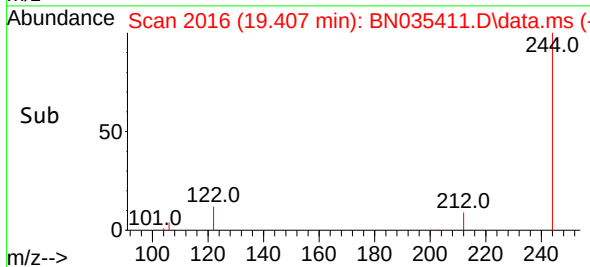
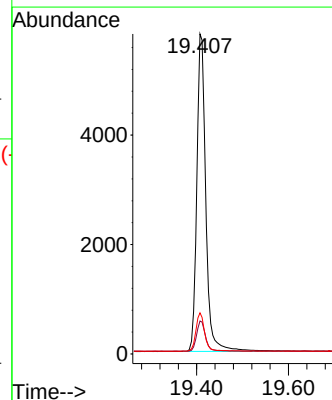
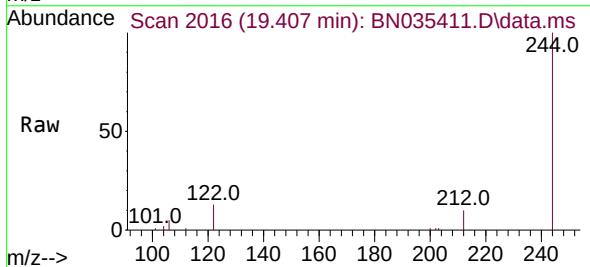
Tgt Ion:244 Resp: 7900

Ion Ratio Lower Upper

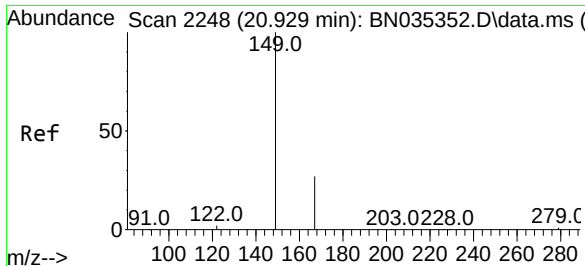
244 100

212 10.3 8.1 12.1

122 12.9 10.3 15.5



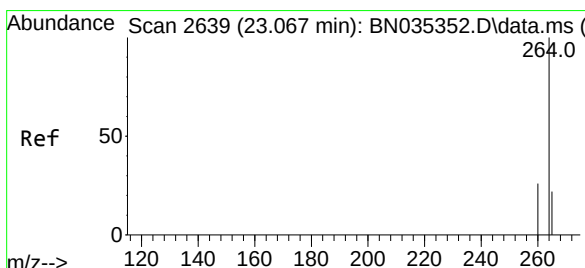
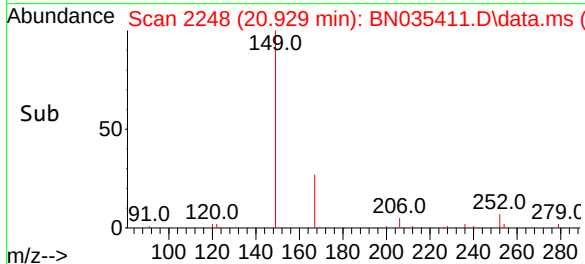
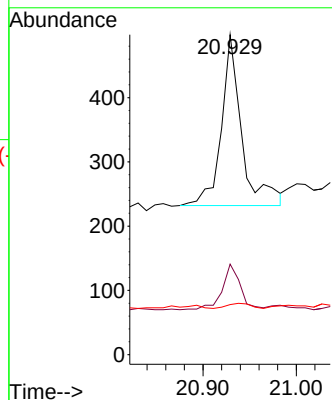
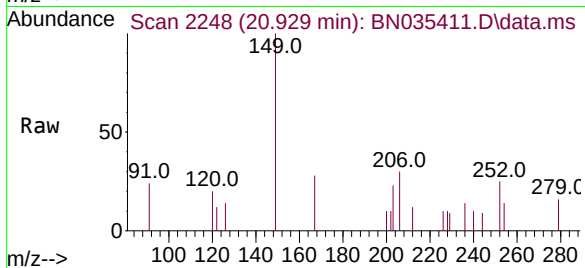




#34  
Bis(2-ethylhexyl)phthalate  
Concen: 0.042 ng  
RT: 20.929 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: BN035411.D  
Acq: 03 Dec 2024 20:00

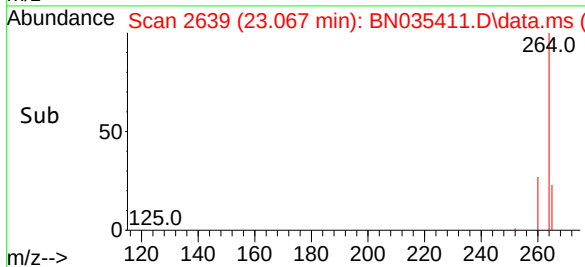
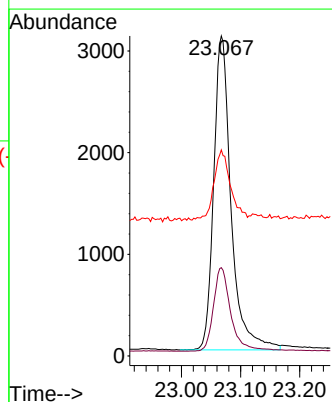
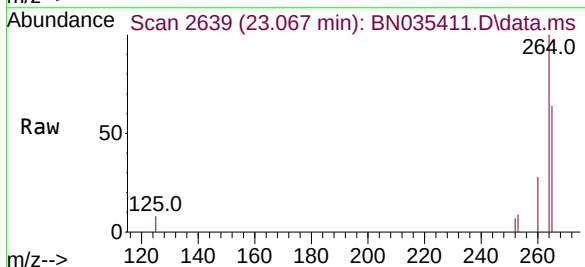
Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP201-20241202

Tgt Ion:149 Resp: 402  
Ion Ratio Lower Upper  
149 100  
167 23.9 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: BN035411.D  
Acq: 03 Dec 2024 20:00

Tgt Ion:264 Resp: 6312  
Ion Ratio Lower Upper  
264 100  
260 27.6 21.4 32.2  
265 64.4 40.2 60.4#



## Report of Analysis

|                    |                      |                  |                 |                |      |
|--------------------|----------------------|------------------|-----------------|----------------|------|
| Client:            | Tetra Tech NUS, Inc. |                  | Date Collected: | 12/02/24       |      |
| Project:           | CTO WE13             |                  | Date Received:  | 12/03/24       |      |
| Client Sample ID:  | RW7-SP300A-20241202  |                  | SDG No.:        | P5065          |      |
| Lab Sample ID:     | P5065-06             |                  | Matrix:         | Water          |      |
| Analytical Method: | SW8270SIM            |                  | % 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 :      | SW3510C              |                  |                 |                |      |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BN035412.D        | 1         | 12/03/24 12:30 | 12/03/24 20:36 | PB165348      |

| CAS Number                | Parameter               | Conc. | Qualifier | MDL      | LOD  | LOQ / CRQL | Units    |
|---------------------------|-------------------------|-------|-----------|----------|------|------------|----------|
| <b>TARGETS</b>            |                         |       |           |          |      |            |          |
| 123-91-1                  | 1,4-Dioxane             | 0.57  |           | 0.070    | 0.20 | 0.20       | ug/L     |
| <b>SURROGATES</b>         |                         |       |           |          |      |            |          |
| 7297-45-2                 | 2-Methylnaphthalene-d10 | 0.36  |           | 30 - 150 |      | 91%        | SPK: 0.4 |
| 93951-69-0                | Fluoranthene-d10        | 0.38  |           | 30 - 150 |      | 94%        | SPK: 0.4 |
| 4165-60-0                 | Nitrobenzene-d5         | 0.32  |           | 55 - 111 |      | 81%        | SPK: 0.4 |
| 321-60-8                  | 2-Fluorobiphenyl        | 0.37  |           | 53 - 106 |      | 94%        | SPK: 0.4 |
| 1718-51-0                 | Terphenyl-d14           | 0.60  | *         | 58 - 132 |      | 151%       | SPK: 0.4 |
| <b>INTERNAL STANDARDS</b> |                         |       |           |          |      |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4  | 1640  | 7.308     |          |      |            |          |
| 1146-65-2                 | Naphthalene-d8          | 4080  | 10.052    |          |      |            |          |
| 15067-26-2                | Acenaphthene-d10        | 2950  | 13.956    |          |      |            |          |
| 1517-22-2                 | Phenanthrene-d10        | 7430  | 16.723    |          |      |            |          |
| 1719-03-5                 | Chrysene-d12            | 6340  | 20.973    |          |      |            |          |
| 1520-96-3                 | Perylene-d12            | 5800  | 23.067    |          |      |            |          |

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\BN120424\  
Data File : BN035412.D  
Acq On : 03 Dec 2024 20:36  
Operator : RC/JU  
Sample : P5065-06  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP300A-20241202

Quant Time: Dec 03 22:06:12 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

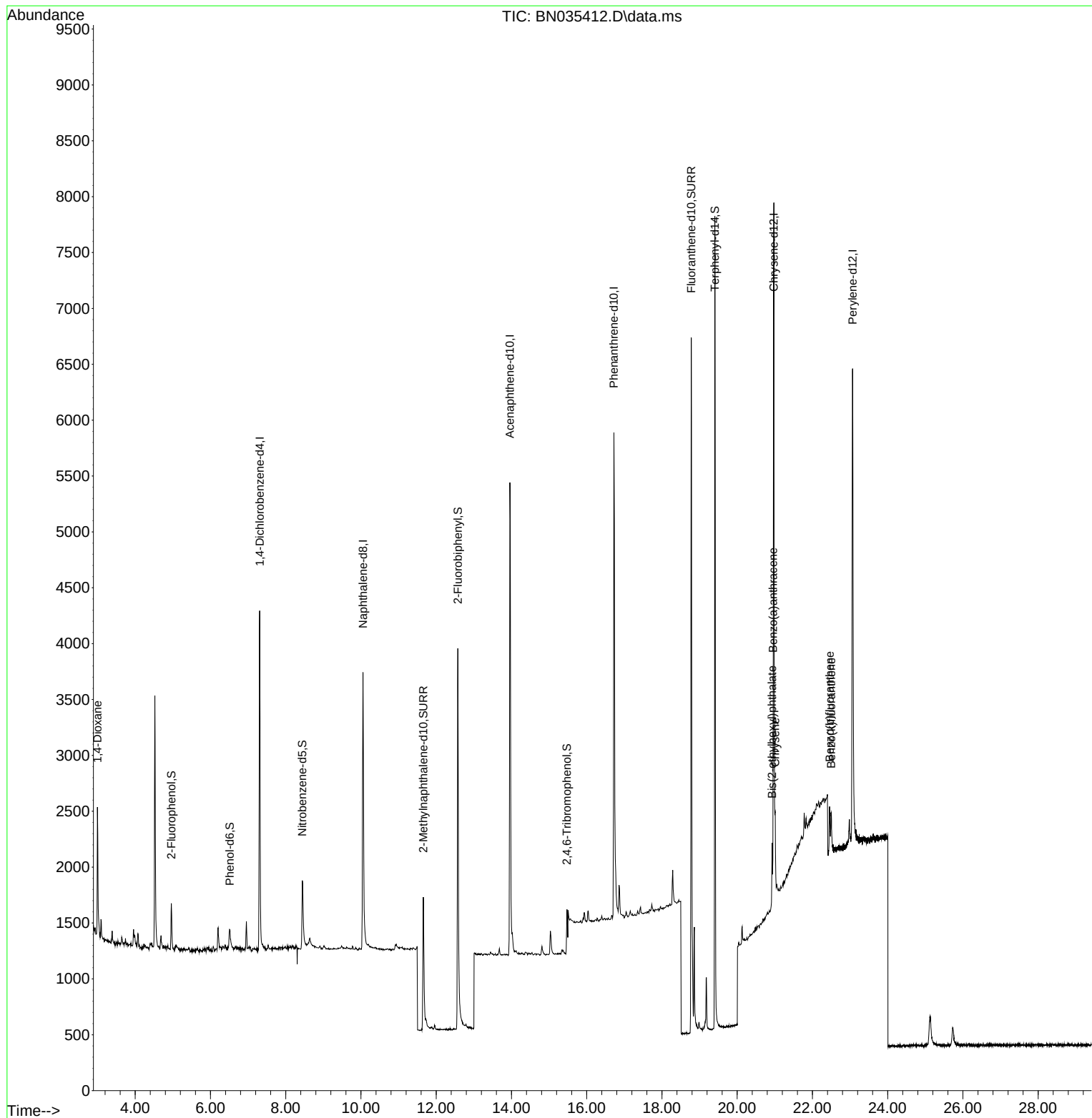
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.308  | 152  | 1636     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.052 | 136  | 4083     | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 13.956 | 164  | 2951     | 0.400 | ng    | -0.01    |
| 19) Phenanthrene-d10          | 16.723 | 188  | 7433     | 0.400 | ng    | #-0.01   |
| 29) Chrysene-d12              | 20.973 | 240  | 6344     | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.067 | 264  | 5799     | 0.400 | ng    | # 0.00   |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 4.960  | 112  | 375      | 0.092 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.513  | 99   | 224      | 0.045 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.440  | 82   | 804      | 0.322 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.656 | 152  | 2329     | 0.364 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.474 | 330  | 435      | 0.208 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.574 | 172  | 4173     | 0.374 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 18.780 | 212  | 7907     | 0.375 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.407 | 244  | 7562     | 0.604 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
| 2) 1,4-Dioxane                | 2.996  | 88   | 884      | 0.565 | ng    | 98       |
| 32) Benzo(a)anthracene        | 20.956 | 228  | 457      | 0.021 | ng    | # 79     |
| 33) Chrysene                  | 21.009 | 228  | 622      | 0.027 | ng    | # 85     |
| 34) Bis(2-ethylhexyl)phtha... | 20.929 | 149  | 548      | 0.063 | ng    | # 98     |
| 37) Benzo(b)fluoranthene      | 22.456 | 252  | 598      | 0.028 | ng    | # 16     |
| 38) Benzo(k)fluoranthene      | 22.500 | 252  | 476      | 0.023 | ng    | # 4      |

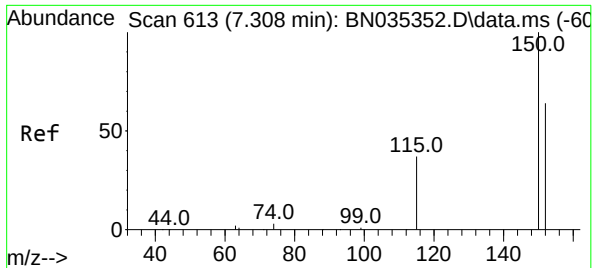
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN120424\  
Data File : BN035412.D  
Acq On : 03 Dec 2024 20:36  
Operator : RC/JU  
Sample : P5065-06  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP300A-20241202

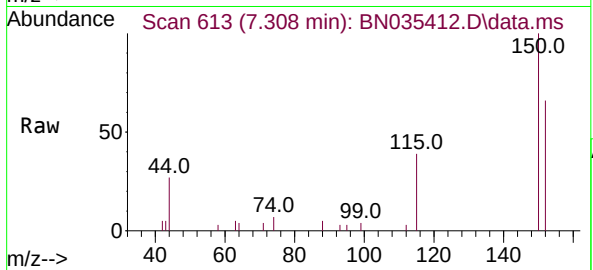
Quant Time: Dec 03 22:06:12 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Nov 27 23:03:24 2024  
Response via : Initial Calibration



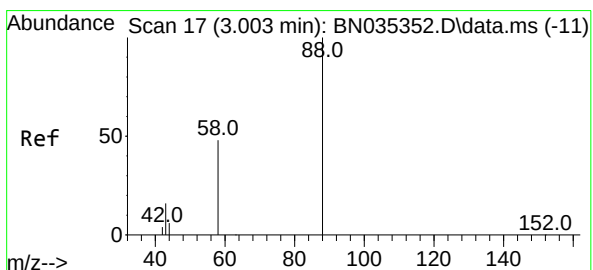
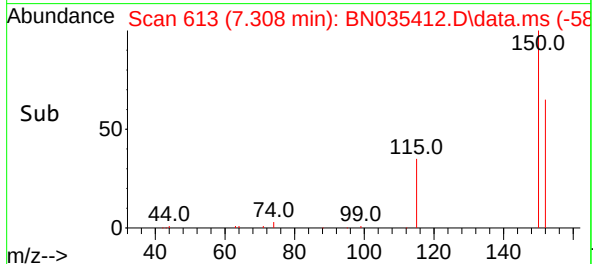
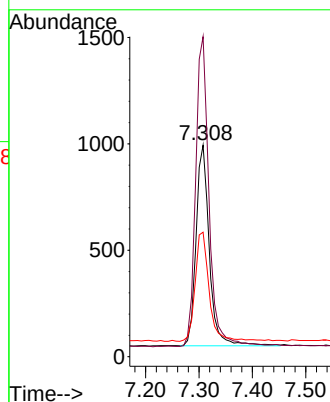


#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.308 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: BN035412.D  
Acq: 03 Dec 2024 20:36

Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP300A-20241202

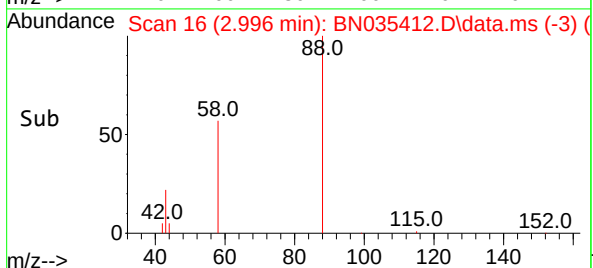
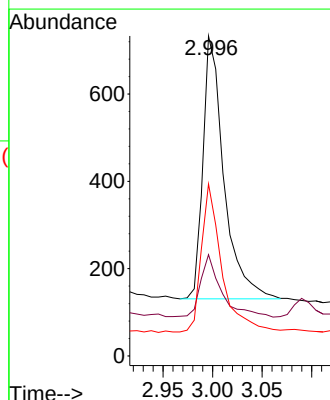
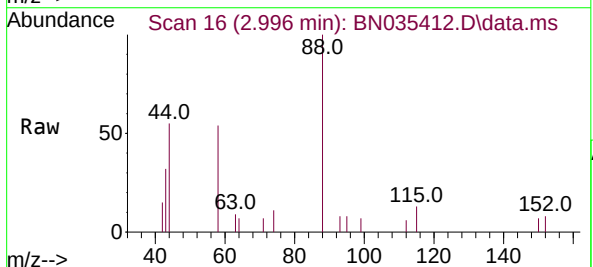


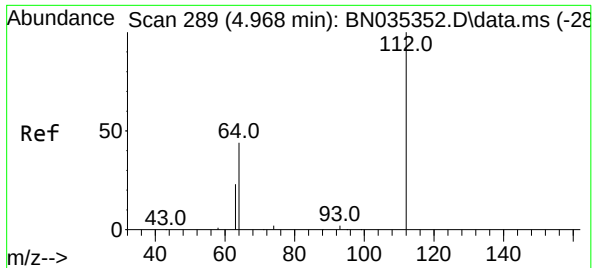
Tgt Ion:152 Resp: 1636  
Ion Ratio Lower Upper  
152 100  
150 151.3 124.0 186.0  
115 58.9 49.6 74.4



#2  
1,4-Dioxane  
Concen: 0.565 ng  
RT: 2.996 min Scan# 16  
Delta R.T. -0.007 min  
Lab File: BN035412.D  
Acq: 03 Dec 2024 20:36

Tgt Ion: 88 Resp: 884  
Ion Ratio Lower Upper  
88 100  
43 23.6 17.2 25.8  
58 54.8 44.5 66.7

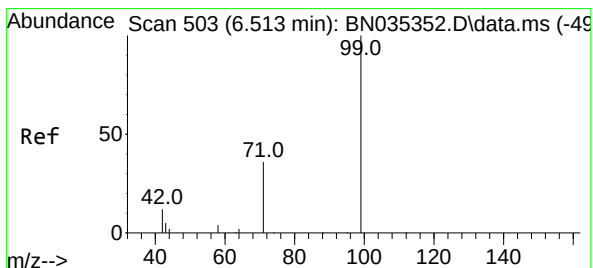
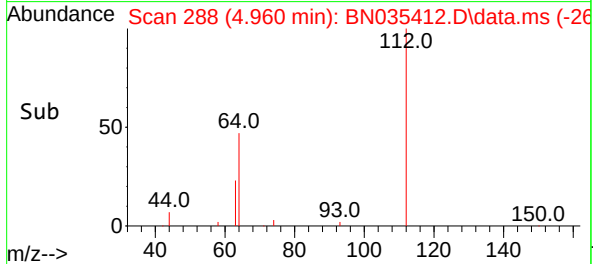
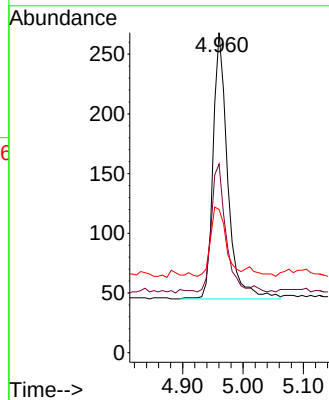
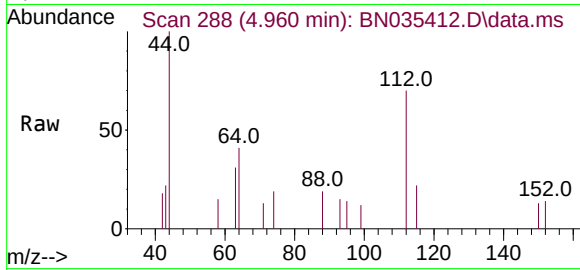




#4  
2-Fluorophenol  
Concen: 0.092 ng  
RT: 4.960 min Scan# 288  
Delta R.T. -0.007 min  
Lab File: BN035412.D  
Acq: 03 Dec 2024 20:36

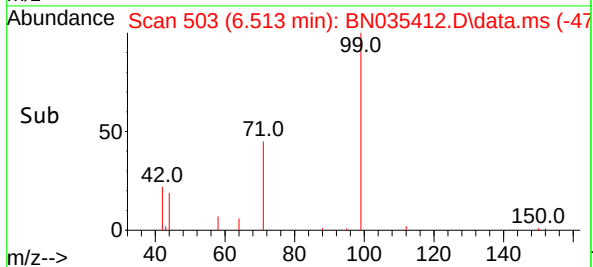
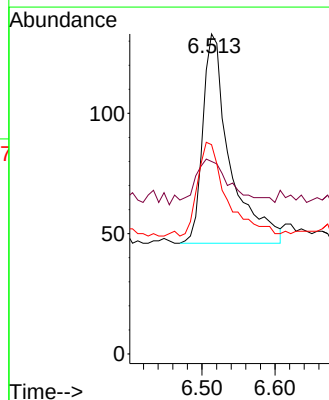
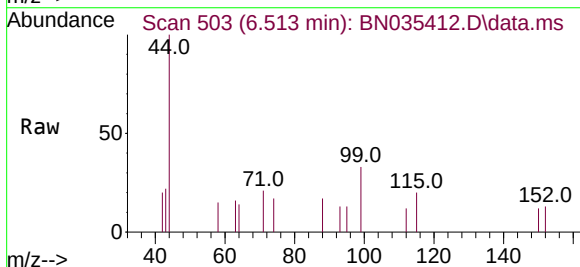
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ClientSampleId :  
RW7-SP300A-20241202

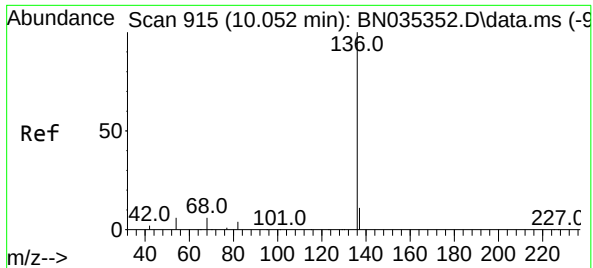
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 112   | Resp: | 375   |
| Ion      | Ratio | Lower | Upper |
| 112      | 100   |       |       |
| 64       | 46.9  | 39.8  | 59.8  |
| 63       | 27.2  | 21.0  | 31.6  |



#5  
Phenol-d6  
Concen: 0.045 ng  
RT: 6.513 min Scan# 503  
Delta R.T. -0.000 min  
Lab File: BN035412.D  
Acq: 03 Dec 2024 20:36

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 99    | Resp: | 224   |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 24.6  | 11.4  | 17.2# |
| 71       | 48.7  | 29.3  | 43.9# |

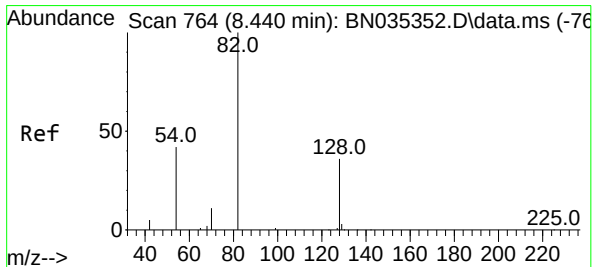
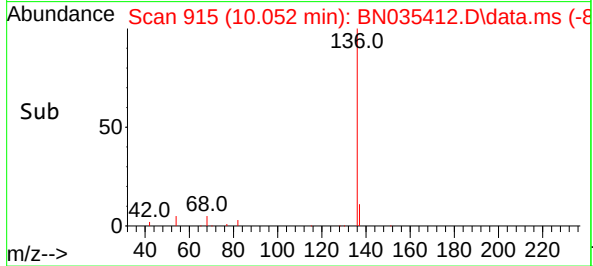
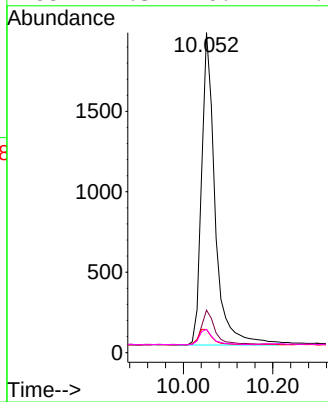
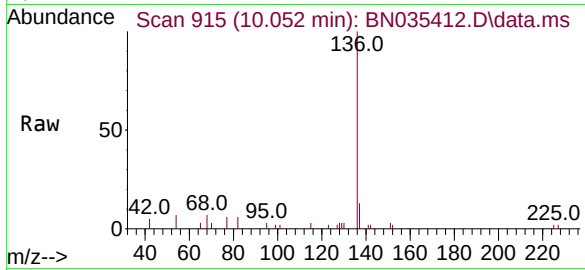




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.052 min Scan# 915  
Delta R.T. -0.000 min  
Lab File: BN035412.D  
Acq: 03 Dec 2024 20:36

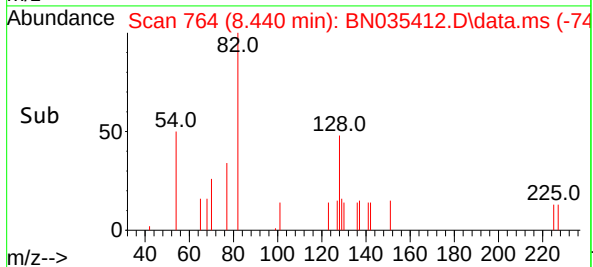
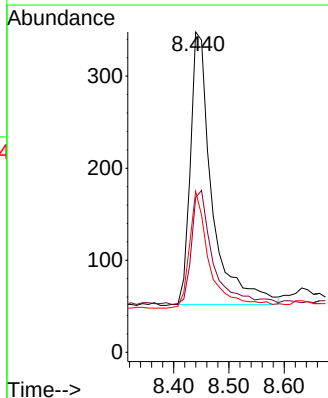
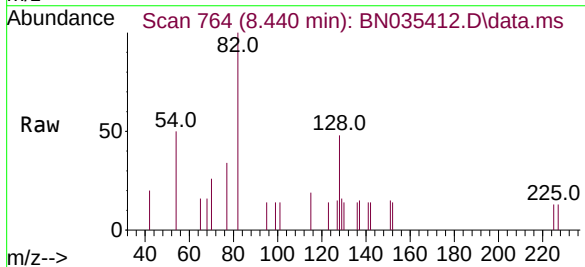
Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP300A-20241202

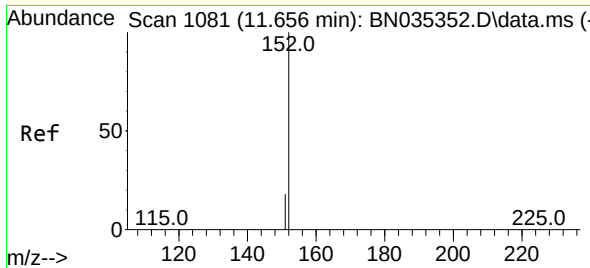
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 4083  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 13.3  | 10.2  | 15.2  |
| 54       | 7.2   | 6.1   | 9.1   |
| 68       | 7.3   | 6.4   | 9.6   |



#8  
Nitrobenzene-d5  
Concen: 0.322 ng  
RT: 8.440 min Scan# 764  
Delta R.T. -0.000 min  
Lab File: BN035412.D  
Acq: 03 Dec 2024 20:36

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 804   |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 48.3  | 33.4  | 50.0  |
| 54       | 50.3  | 36.7  | 55.1  |

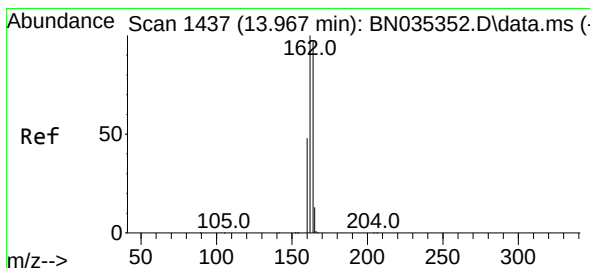
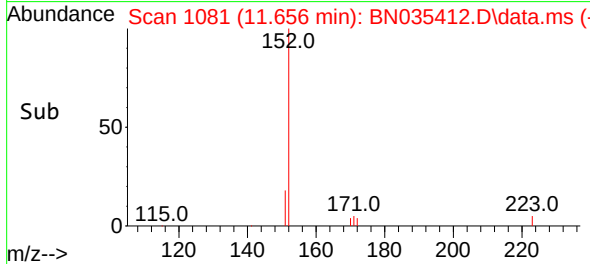
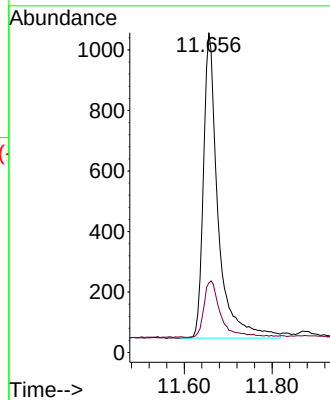
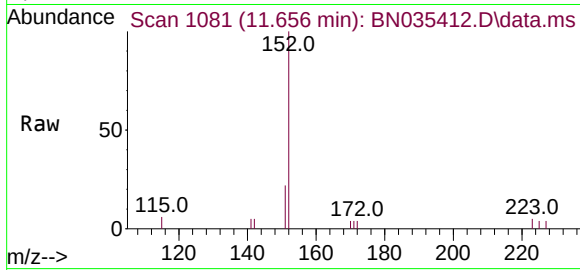




#11  
2-Methylnaphthalene-d10  
Concen: 0.364 ng  
RT: 11.656 min Scan# 1081  
Delta R.T. -0.000 min  
Lab File: BN035412.D  
Acq: 03 Dec 2024 20:36

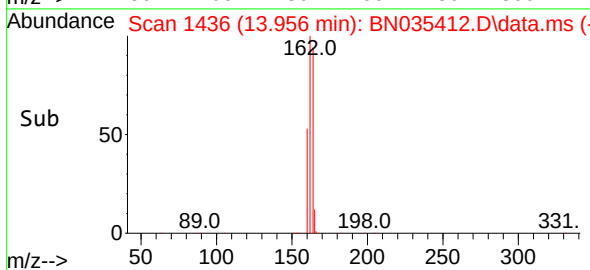
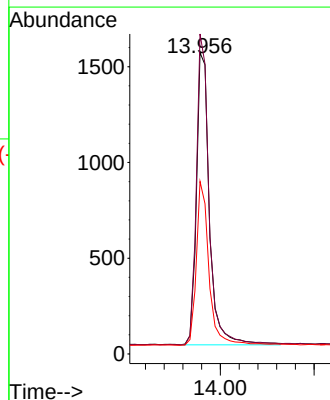
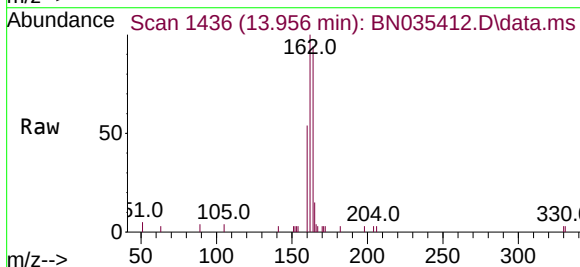
Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP300A-20241202

Tgt Ion:152 Resp: 2329  
Ion Ratio Lower Upper  
152 100  
151 21.2 16.6 25.0

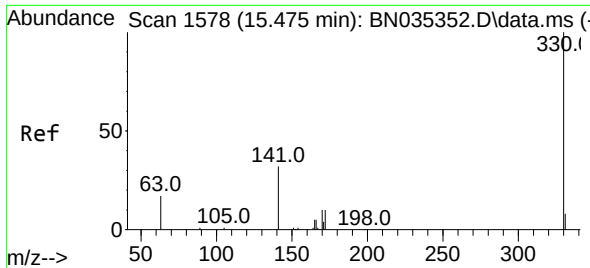


#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.956 min Scan# 1436  
Delta R.T. -0.011 min  
Lab File: BN035412.D  
Acq: 03 Dec 2024 20:36

Tgt Ion:164 Resp: 2951  
Ion Ratio Lower Upper  
164 100  
162 106.2 82.2 123.2  
160 57.3 40.1 60.1



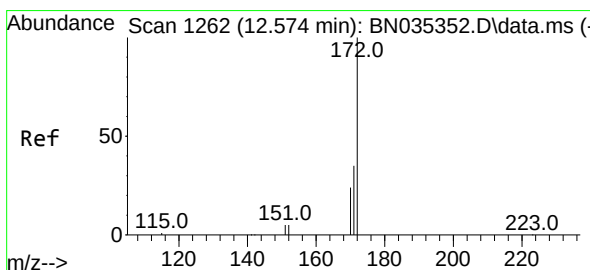
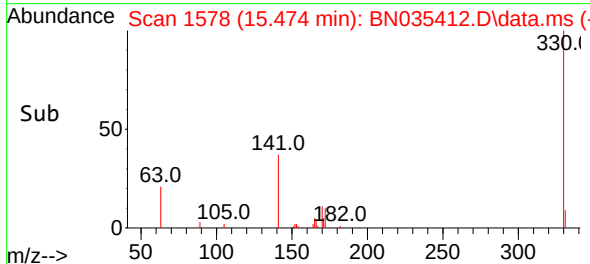
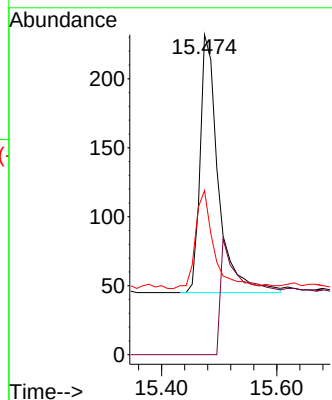
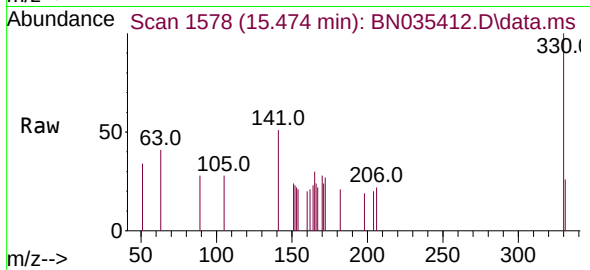




#14  
2,4,6-Tribromophenol  
Concen: 0.208 ng  
RT: 15.474 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: BN035412.D  
Acq: 03 Dec 2024 20:36

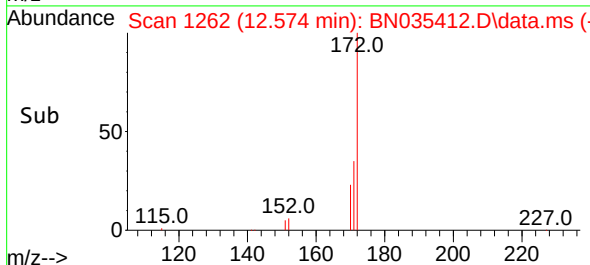
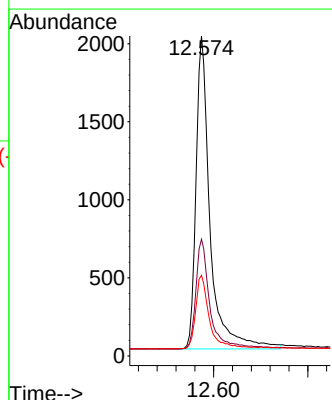
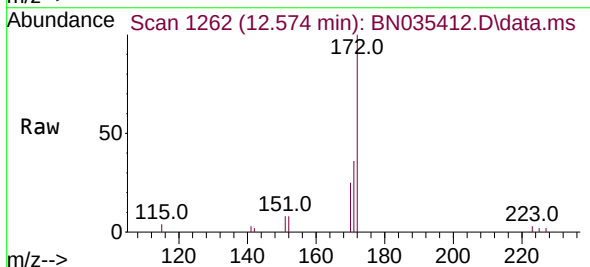
Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP300A-20241202

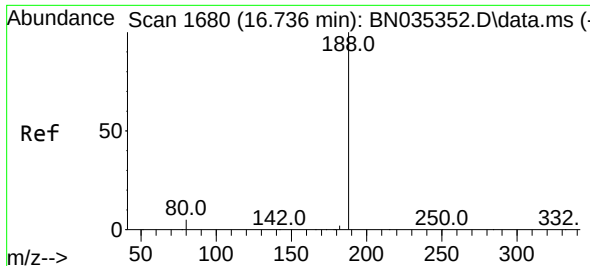
Tgt Ion:330 Resp: 435  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 39.1 26.6 40.0



#15  
2-Fluorobiphenyl  
Concen: 0.374 ng  
RT: 12.574 min Scan# 1262  
Delta R.T. -0.000 min  
Lab File: BN035412.D  
Acq: 03 Dec 2024 20:36

Tgt Ion:172 Resp: 4173  
Ion Ratio Lower Upper  
172 100  
171 36.5 29.0 43.4  
170 25.2 19.8 29.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.723 min Scan# 1

Delta R.T. -0.013 min

Lab File: BN035412.D

Acq: 03 Dec 2024 20:36

Instrument :

BNA\_N

ClientSampleId :

RW7-SP300A-20241202

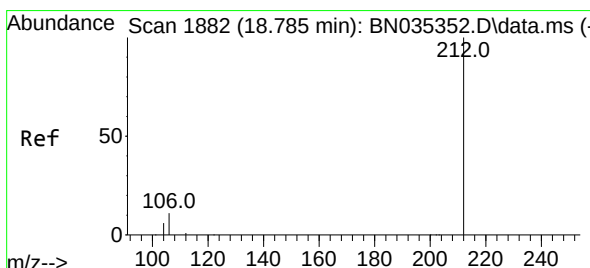
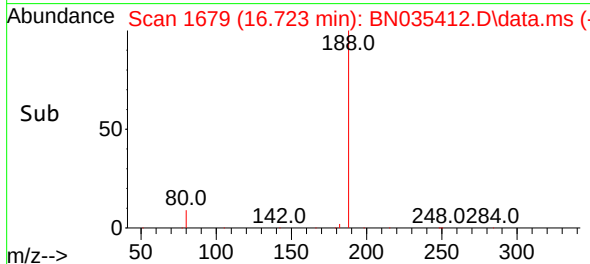
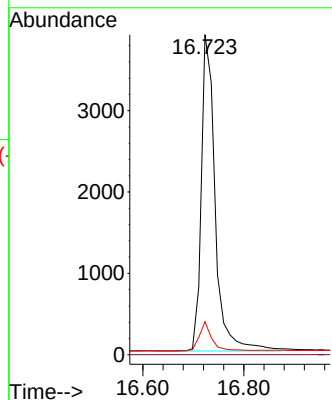
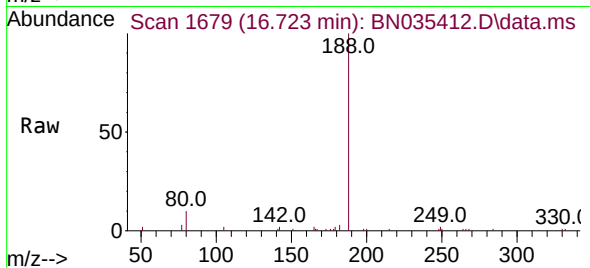
Tgt Ion:188 Resp: 7433

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.3 4.6 6.8#



#27

Fluoranthene-d10

Concen: 0.375 ng

RT: 18.780 min Scan# 1881

Delta R.T. -0.005 min

Lab File: BN035412.D

Acq: 03 Dec 2024 20:36

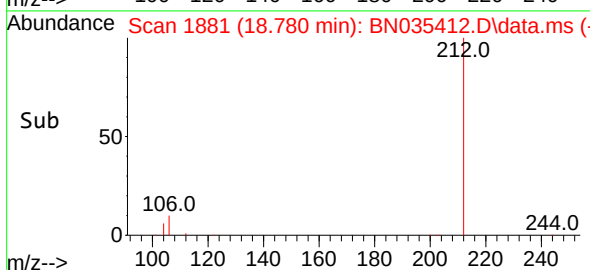
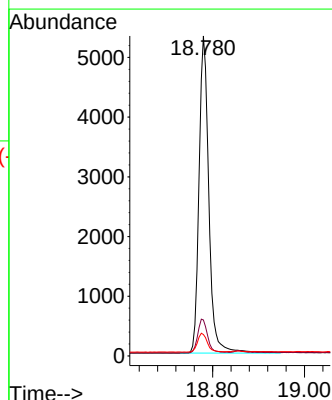
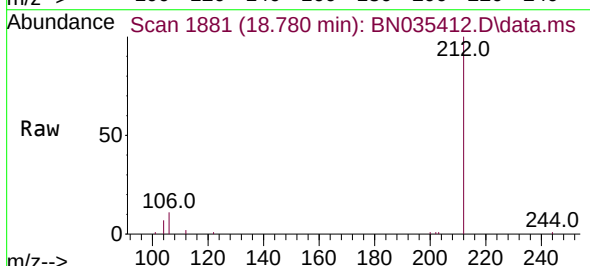
Tgt Ion:212 Resp: 7907

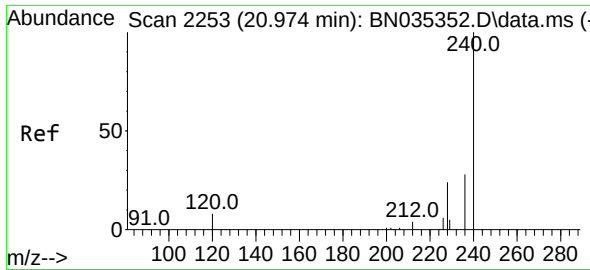
Ion Ratio Lower Upper

212 100

106 10.6 9.2 13.8

104 5.9 5.3 7.9





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.973 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035412.D

Acq: 03 Dec 2024 20:36

Instrument :

BNA\_N

ClientSampleId :

RW7-SP300A-20241202

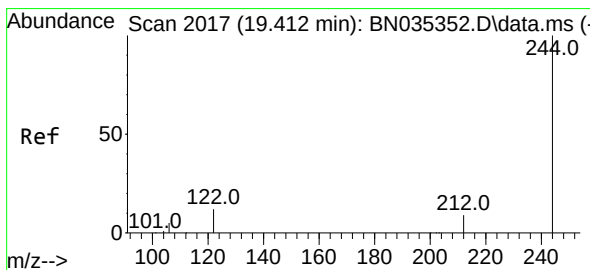
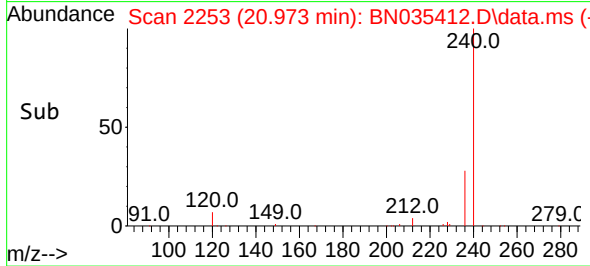
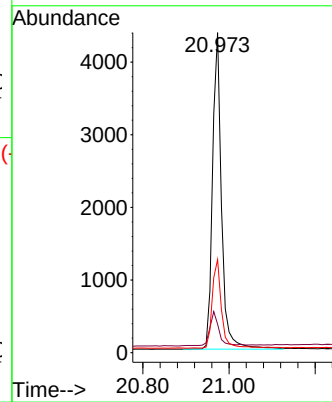
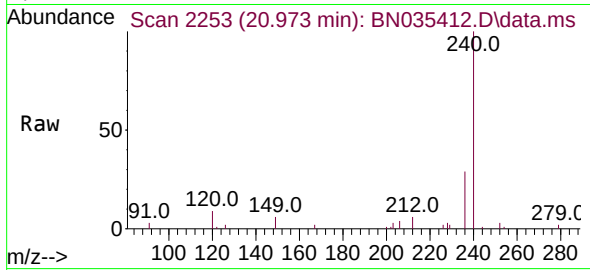
Tgt Ion:240 Resp: 6344

Ion Ratio Lower Upper

240 100

120 8.9 7.9 11.9

236 29.1 22.9 34.3



#31

Terphenyl-d14

Concen: 0.604 ng

RT: 19.407 min Scan# 2016

Delta R.T. -0.005 min

Lab File: BN035412.D

Acq: 03 Dec 2024 20:36

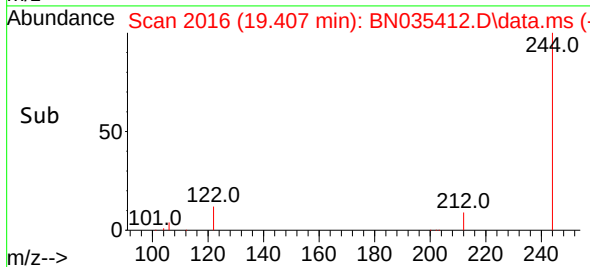
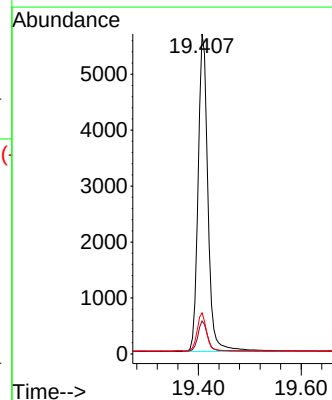
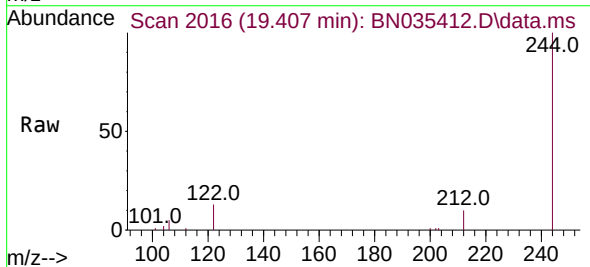
Tgt Ion:244 Resp: 7562

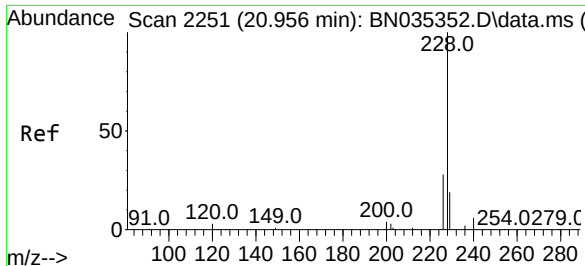
Ion Ratio Lower Upper

244 100

212 10.3 8.1 12.1

122 12.9 10.3 15.5





#32

Benzo(a)anthracene

Concen: 0.021 ng

RT: 20.956 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035412.D

Acq: 03 Dec 2024 20:36

Instrument :

BNA\_N

ClientSampleId :

RW7-SP300A-20241202

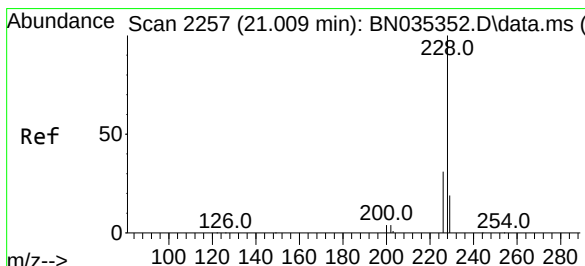
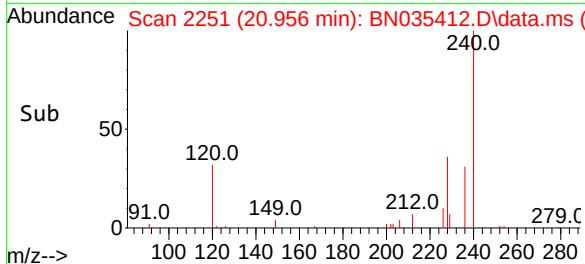
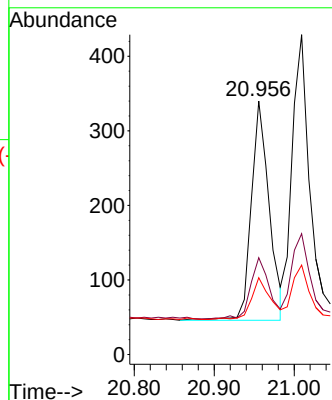
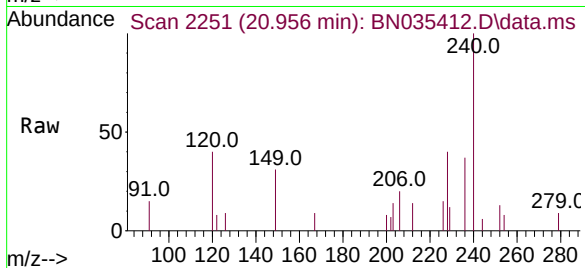
Tgt Ion:228 Resp: 457

Ion Ratio Lower Upper

228 100

226 38.2 22.5 33.7#

229 30.3 15.8 23.8#



#33

Chrysene

Concen: 0.027 ng

RT: 21.009 min Scan# 2257

Delta R.T. -0.000 min

Lab File: BN035412.D

Acq: 03 Dec 2024 20:36

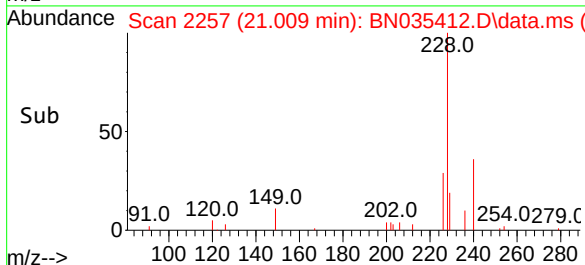
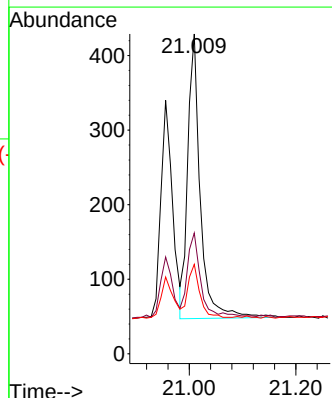
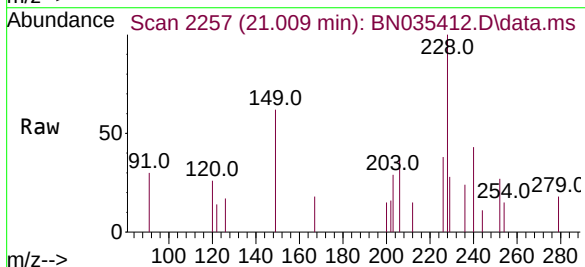
Tgt Ion:228 Resp: 622

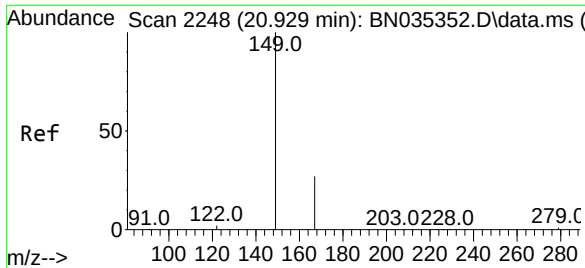
Ion Ratio Lower Upper

228 100

226 37.8 24.6 37.0#

229 28.0 15.9 23.9#

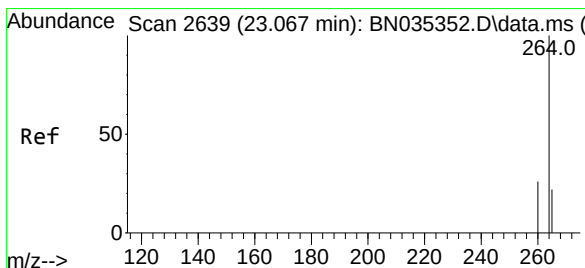
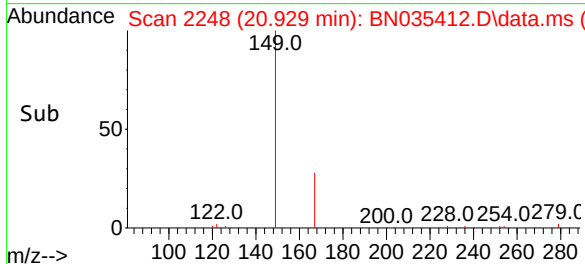
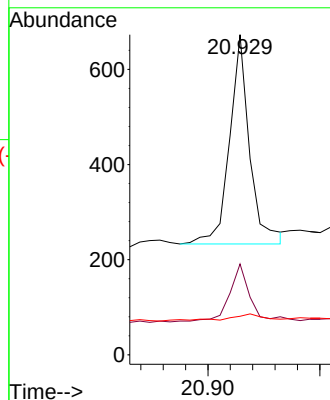
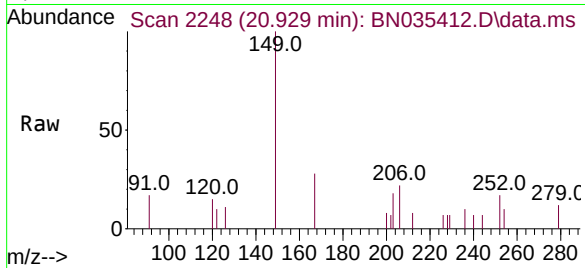




#34  
Bis(2-ethylhexyl)phthalate  
Concen: 0.063 ng  
RT: 20.929 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: BN035412.D  
Acq: 03 Dec 2024 20:36

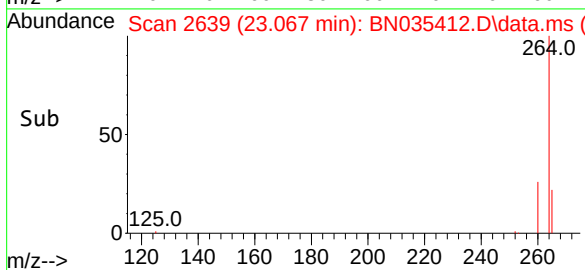
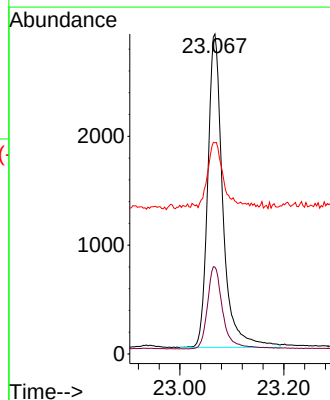
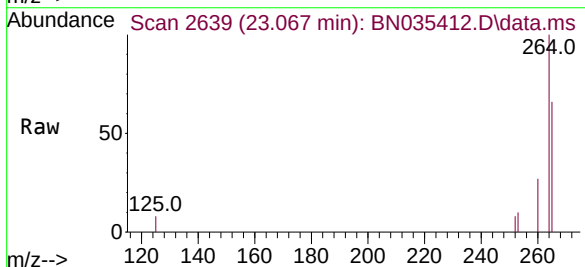
Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP300A-20241202

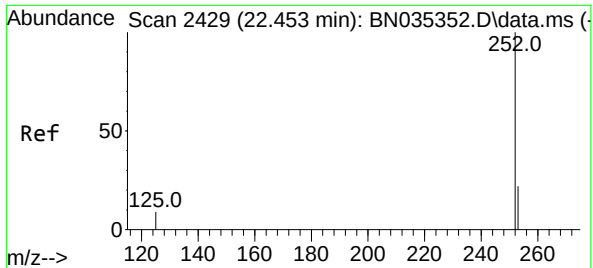
Tgt Ion:149 Resp: 548  
Ion Ratio Lower Upper  
149 100  
167 27.0 22.2 33.4  
279 4.2 2.7 4.1#



#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.067 min Scan# 2639  
Delta R.T. -0.000 min  
Lab File: BN035412.D  
Acq: 03 Dec 2024 20:36

Tgt Ion:264 Resp: 5799  
Ion Ratio Lower Upper  
264 100  
260 27.2 21.4 32.2  
265 66.0 40.2 60.4#

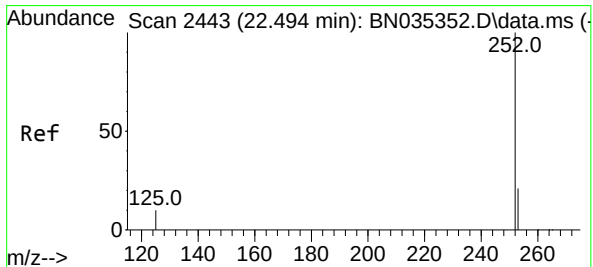
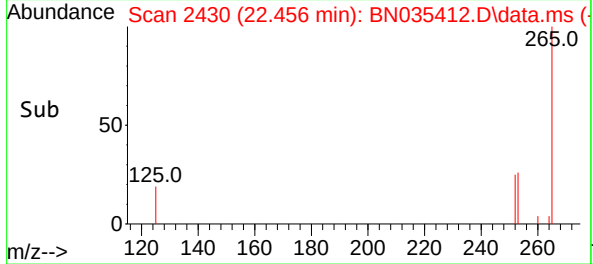
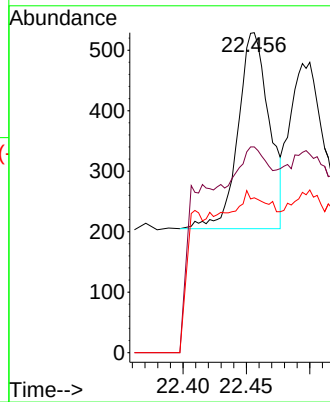
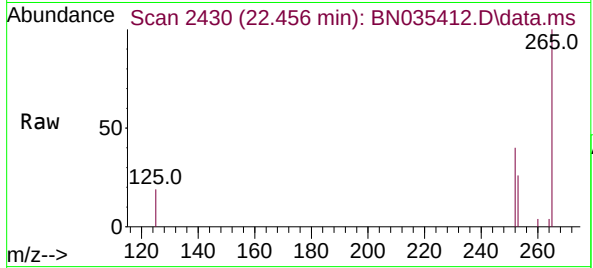




#37  
Benzo(b)fluoranthene  
Concen: 0.028 ng  
RT: 22.456 min Scan# 2429  
Delta R.T. 0.003 min  
Lab File: BN035412.D  
Acq: 03 Dec 2024 20:36

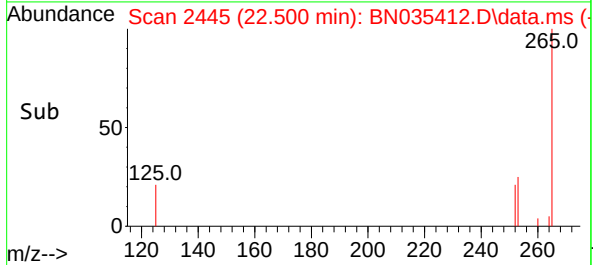
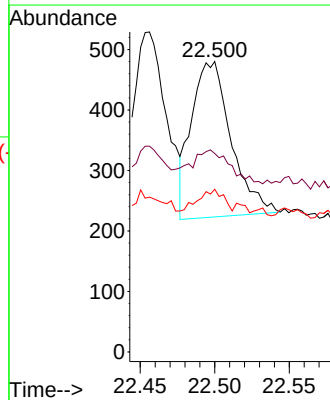
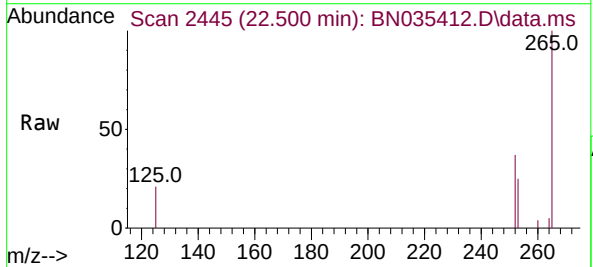
Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP300A-20241202

Tgt Ion:252 Resp: 598  
Ion Ratio Lower Upper  
252 100  
253 64.3 19.6 29.4#  
125 48.4 9.6 14.4#



#38  
Benzo(k)fluoranthene  
Concen: 0.023 ng  
RT: 22.500 min Scan# 2445  
Delta R.T. 0.006 min  
Lab File: BN035412.D  
Acq: 03 Dec 2024 20:36

Tgt Ion:252 Resp: 476  
Ion Ratio Lower Upper  
252 100  
253 68.3 19.5 29.3#  
125 56.0 10.2 15.4#





# CALIBRATION SUMMARY

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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

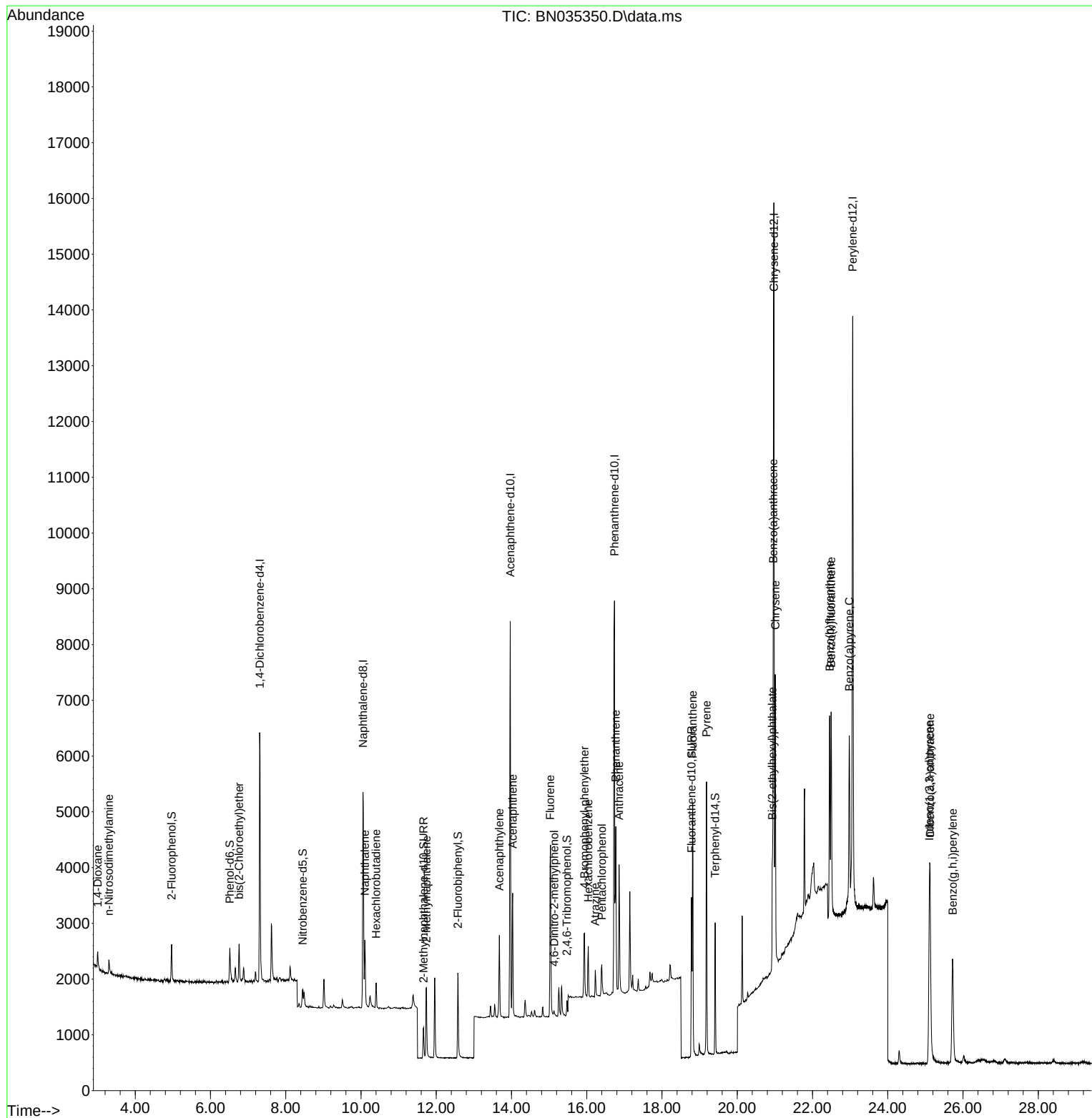
## Manual Integrations

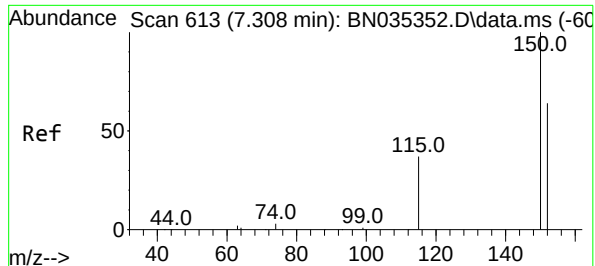
## APPROVED

Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024

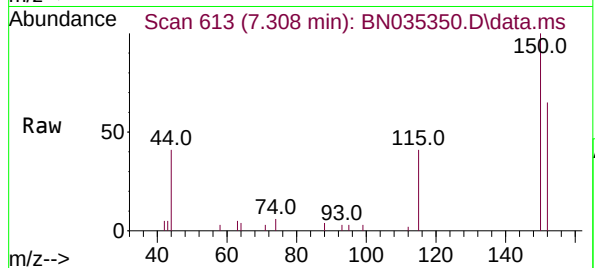
Quant Time: Nov 27 22:52:09 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Nov 27 22:48:24 2024  
Response via : Initial Calibration





#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.308 min Scan# 613  
Delta R.T. -0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

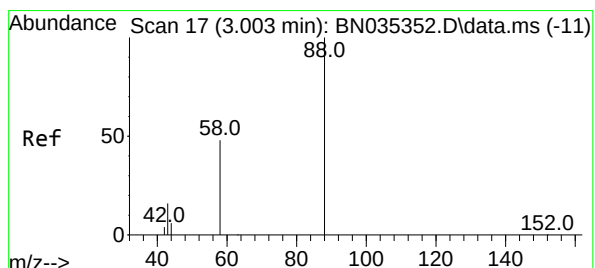
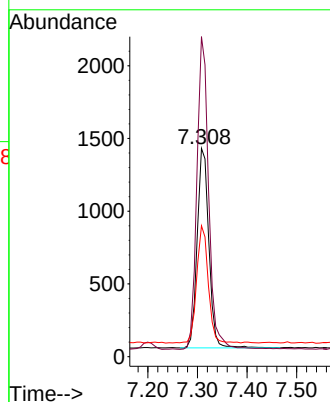
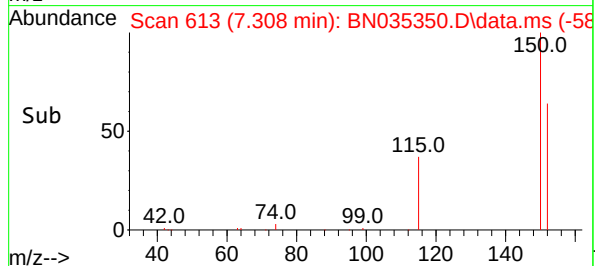
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1



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

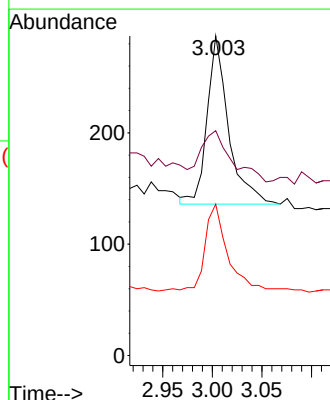
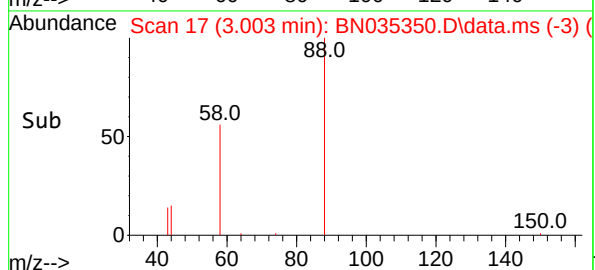
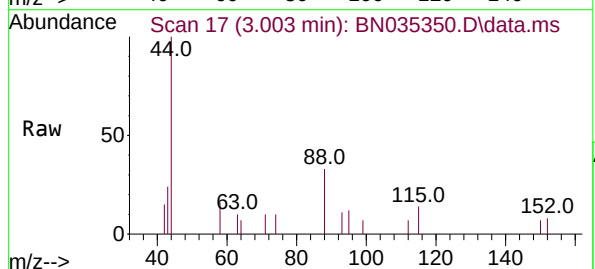
Manual Integrations  
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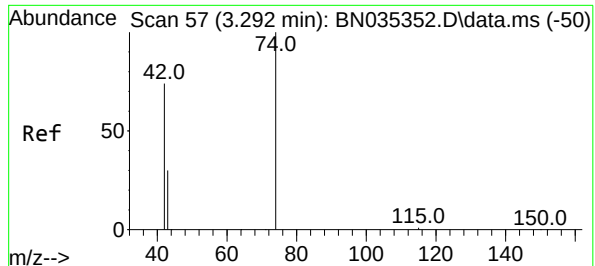
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#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





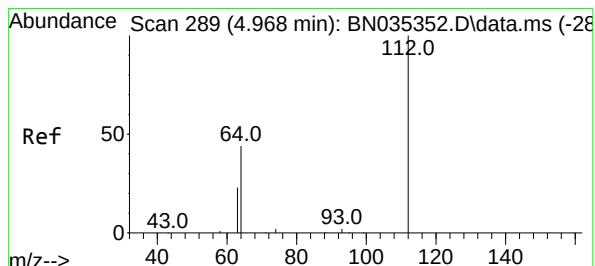
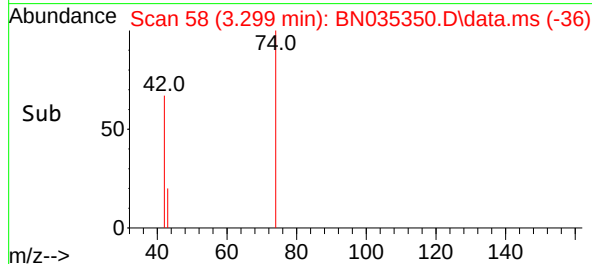
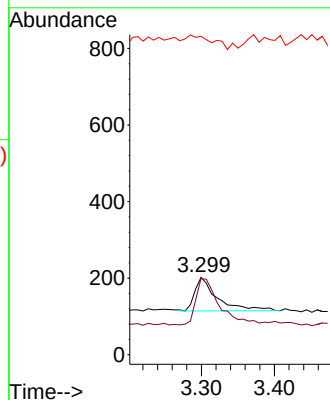
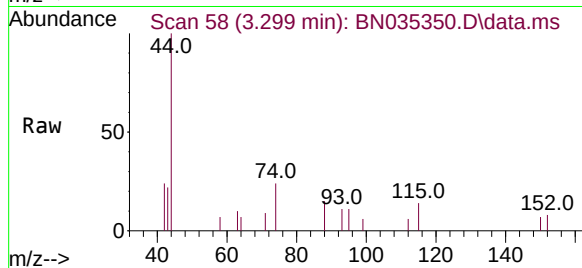
#3  
n-Nitrosodimethylamine  
Concen: 0.099 ng  
RT: 3.299 min Scan# 50  
Delta R.T. 0.007 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

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

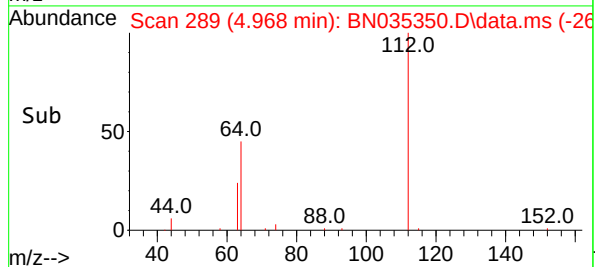
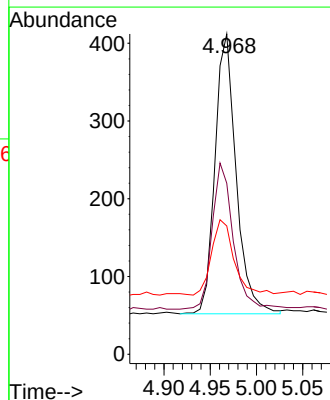
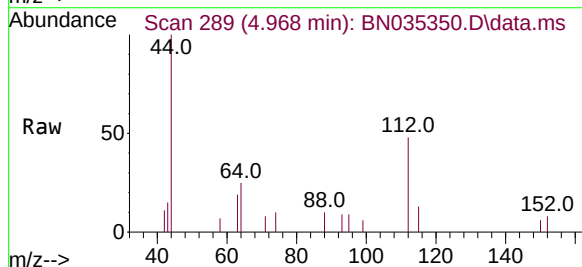
Manual Integrations  
APPROVED

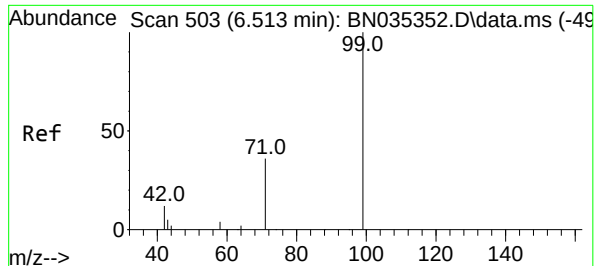
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#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

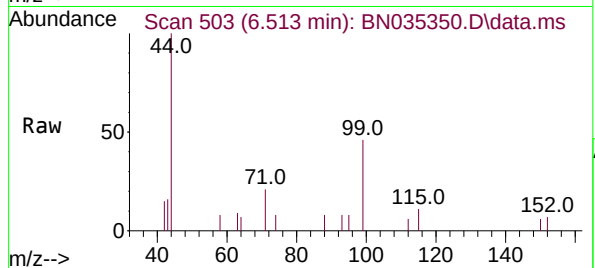
Tgt Ion:112 Resp: 573  
Ion Ratio Lower Upper  
112 100  
64 52.0 39.8 59.8  
63 28.8 21.0 31.6





#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

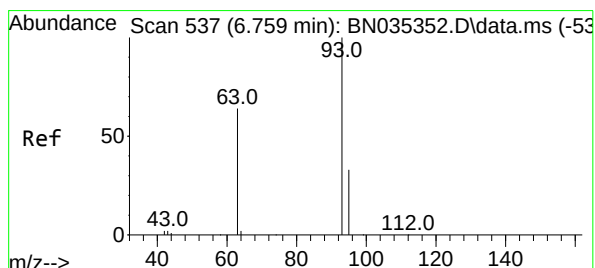
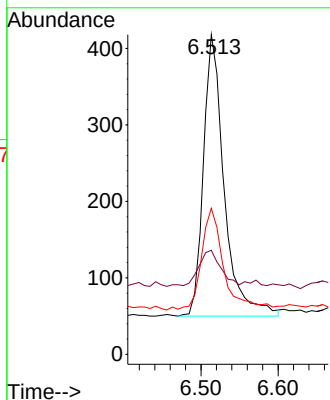
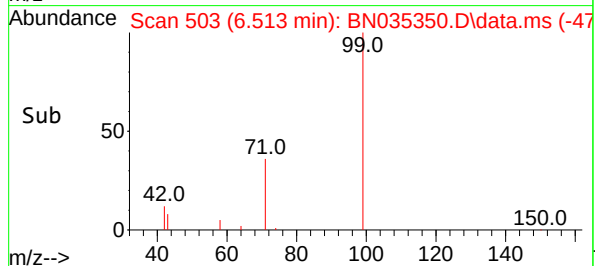
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1



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

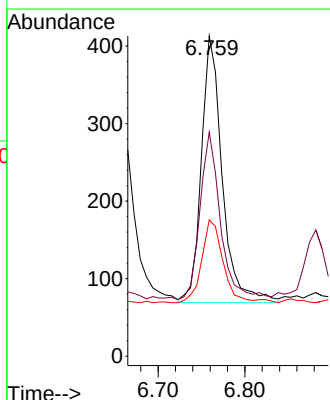
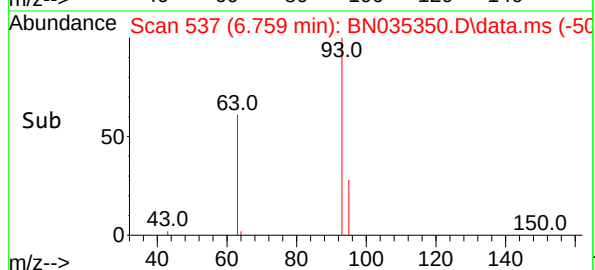
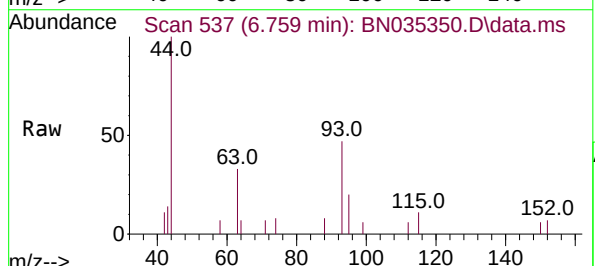
Manual Integrations  
APPROVED

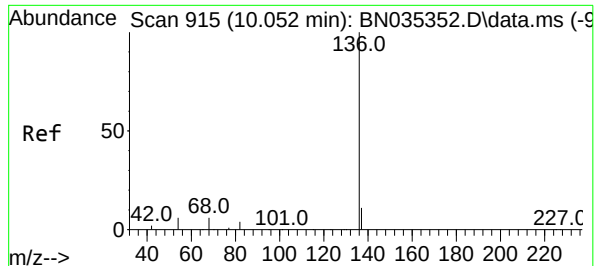
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#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

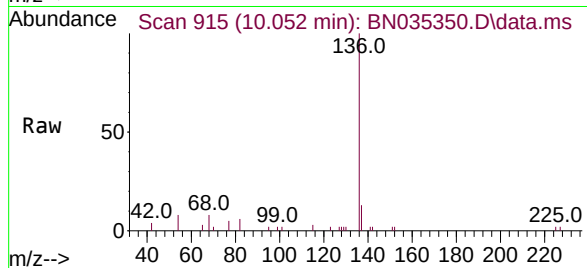
Tgt Ion: 93 Resp: 579  
Ion Ratio Lower Upper  
93 100  
63 61.7 50.4 75.6  
95 31.3 25.7 38.5





#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

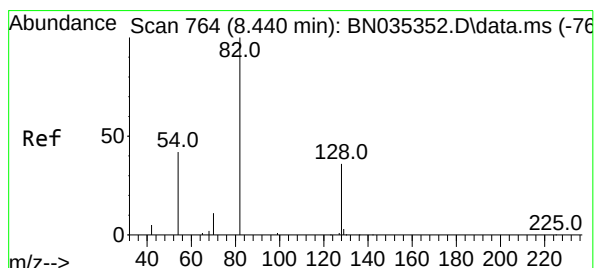
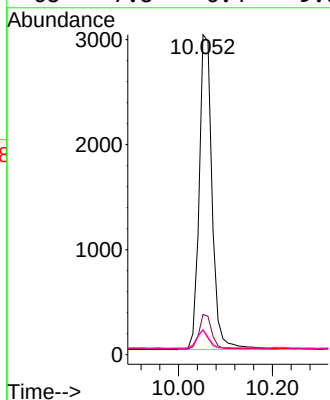
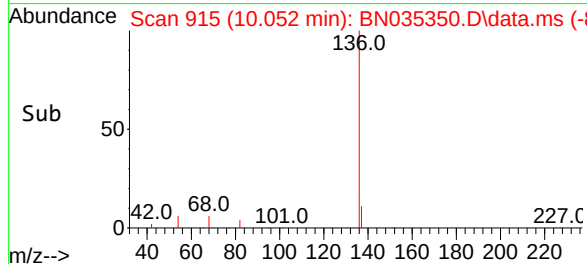
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1



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

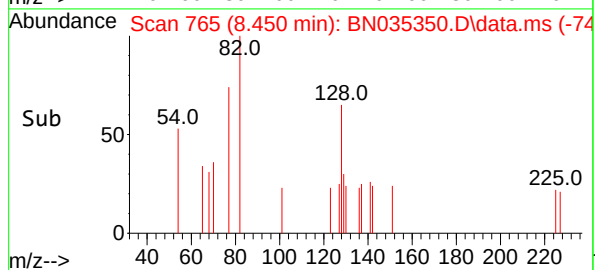
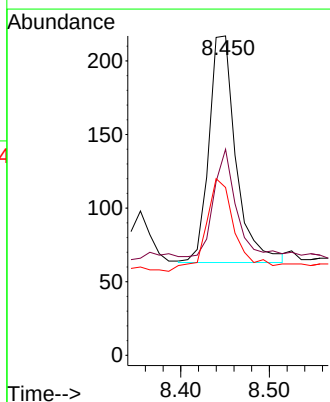
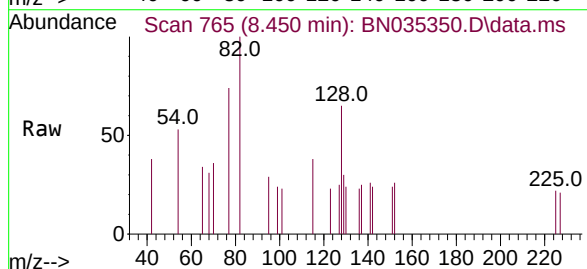
Manual Integrations  
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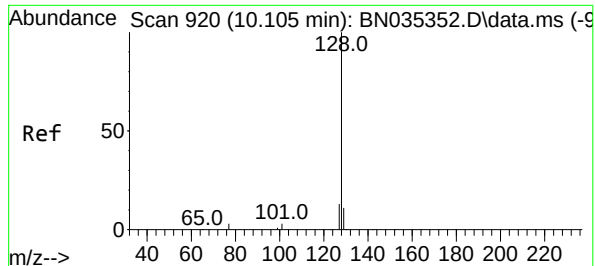
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#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





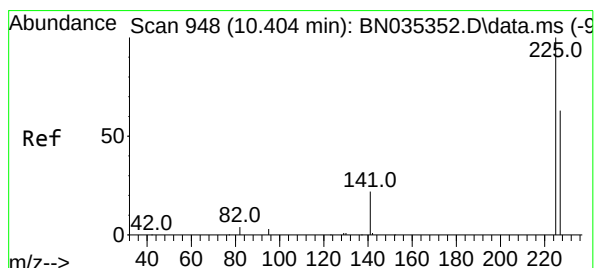
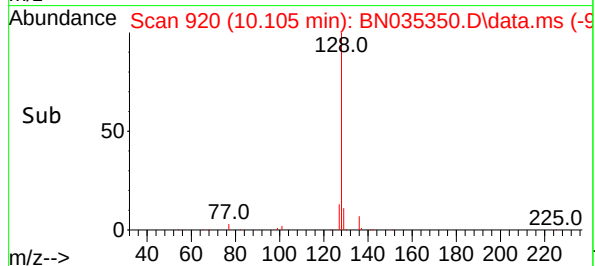
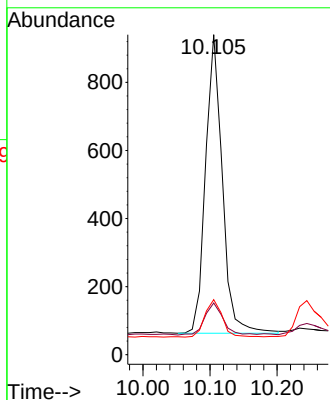
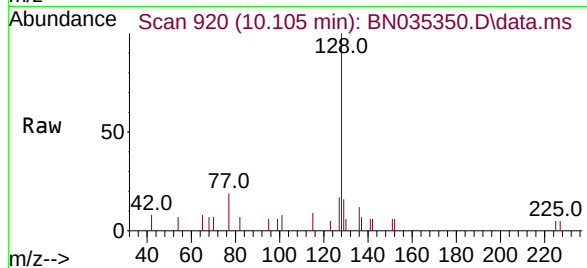
#9  
Naphthalene  
Concen: 0.102 ng  
RT: 10.105 min Scan# 912  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

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

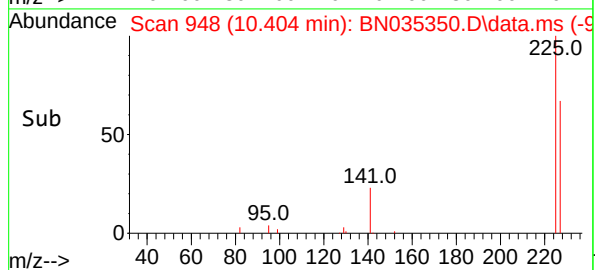
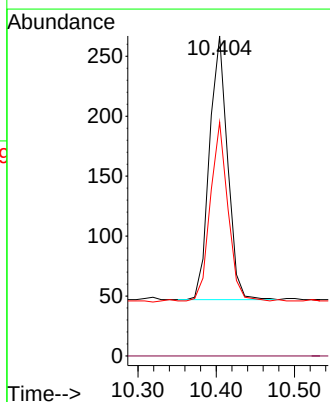
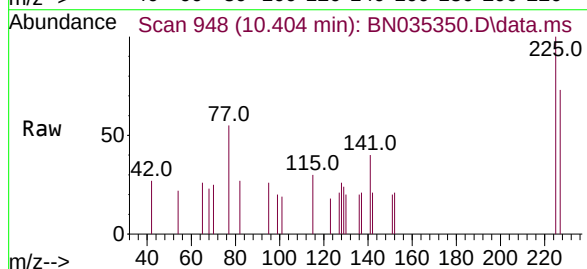
Manual Integrations  
APPROVED

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

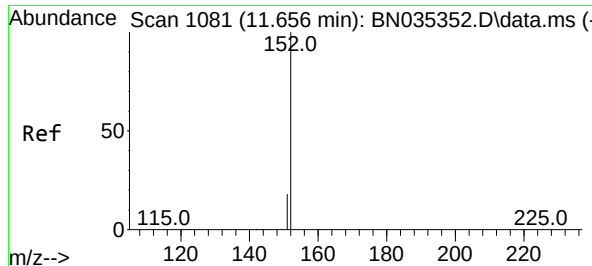


#10  
Hexachlorobutadiene  
Concen: 0.080 ng  
RT: 10.404 min Scan# 948  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

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







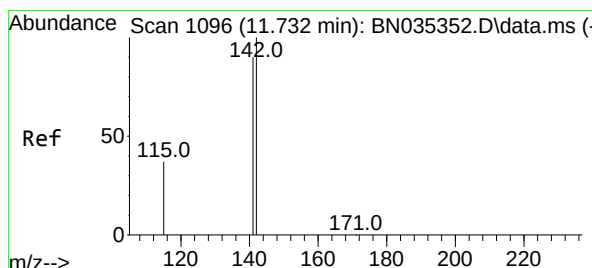
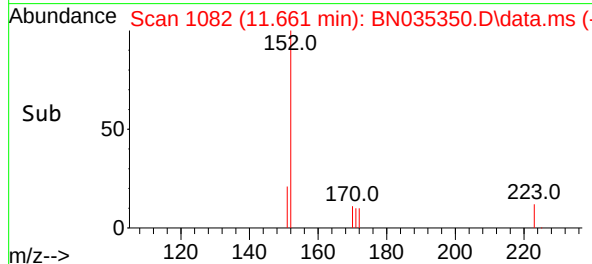
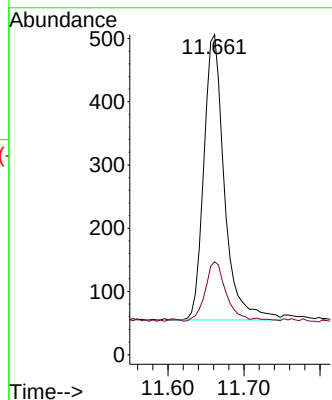
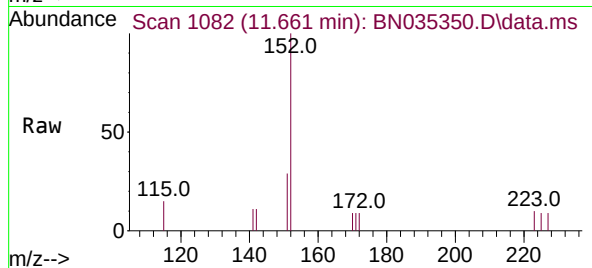
#11  
2-Methylnaphthalene-d10  
Concen: 0.083 ng  
RT: 11.661 min Scan# 1081  
Delta R.T. 0.005 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

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

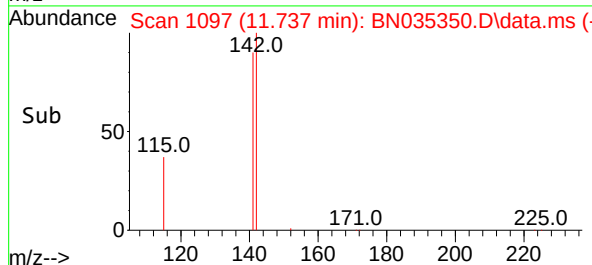
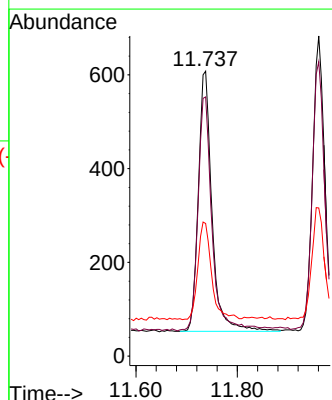
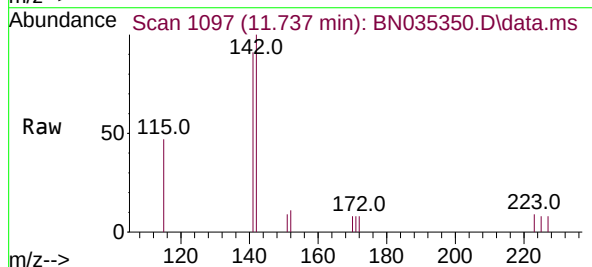
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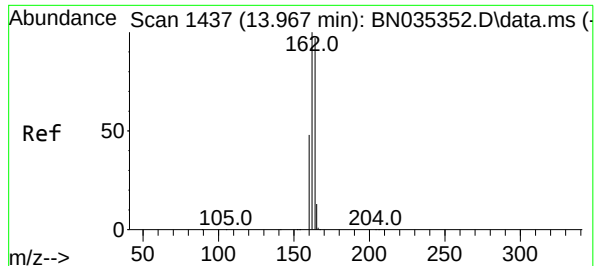
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#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

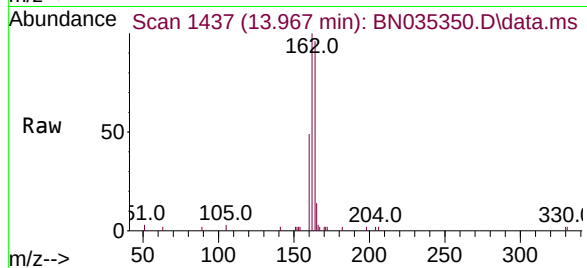
Tgt Ion:142 Resp: 1042  
Ion Ratio Lower Upper  
142 100  
141 91.0 72.2 108.4  
115 46.5 31.4 47.0





#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

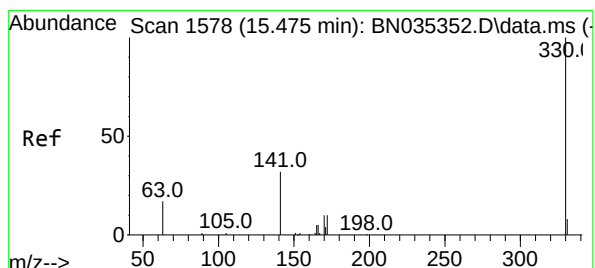
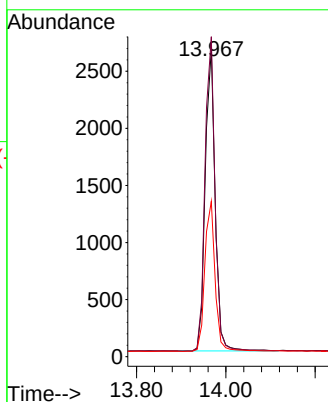
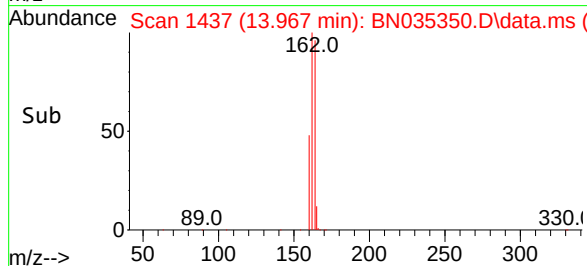
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1



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

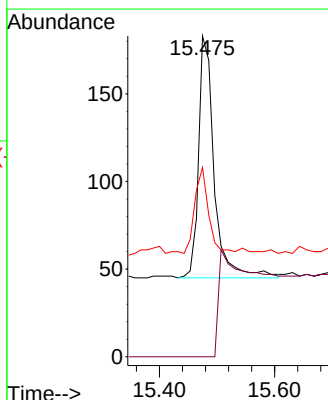
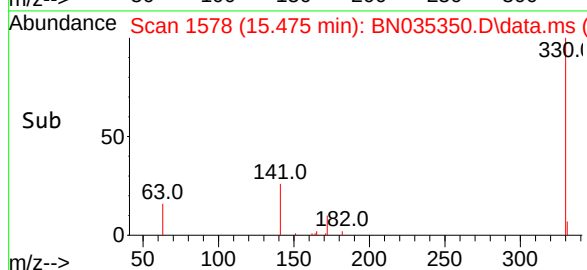
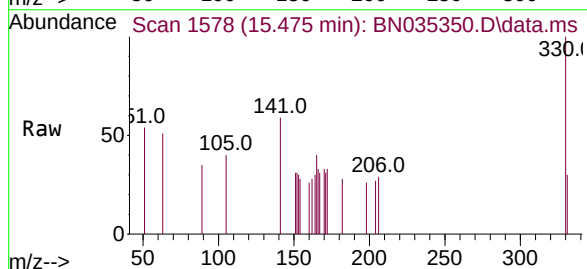
Manual Integrations  
APPROVED

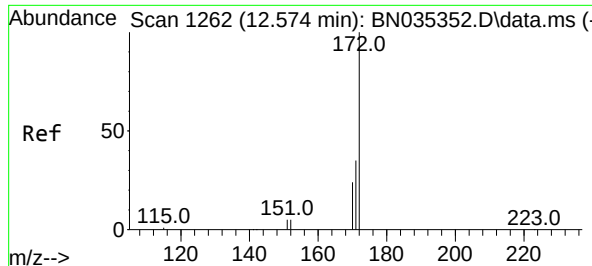
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#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# 1518

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.1

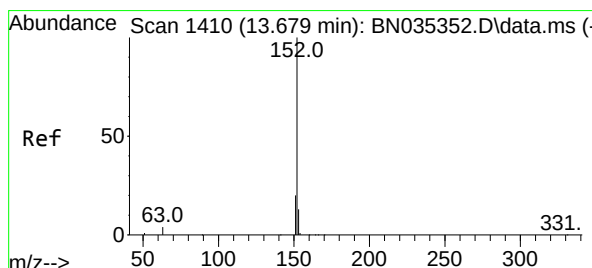
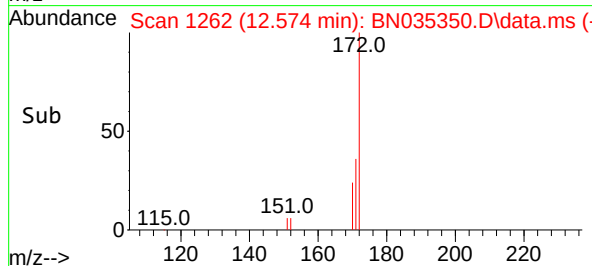
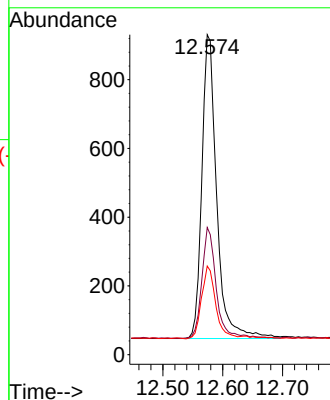
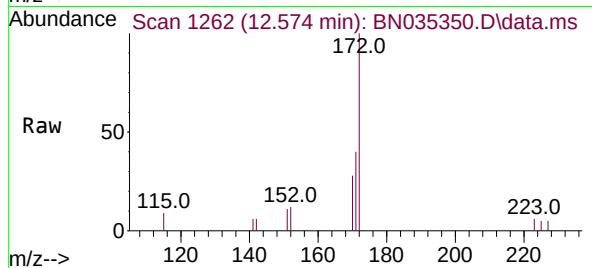
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 172   | Resp: | 1518  |
| Ion      | Ratio | Lower | Upper |
| 172      | 100   |       |       |
| 171      | 39.7  | 29.0  | 43.4  |
| 170      | 27.7  | 19.8  | 29.8  |

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

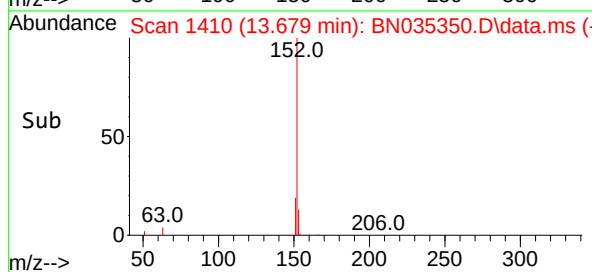
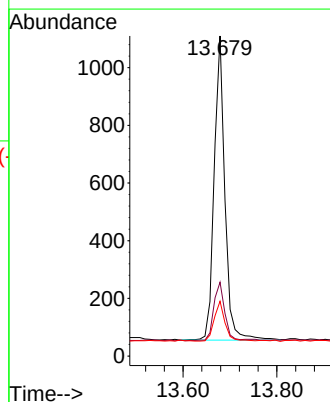
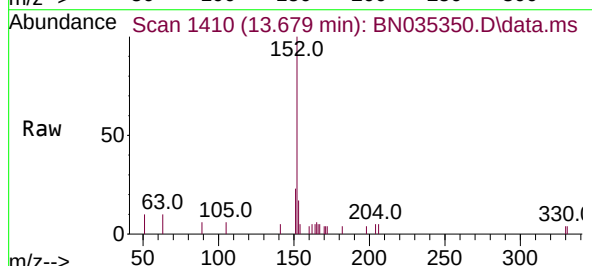
RT: 13.679 min Scan# 1410

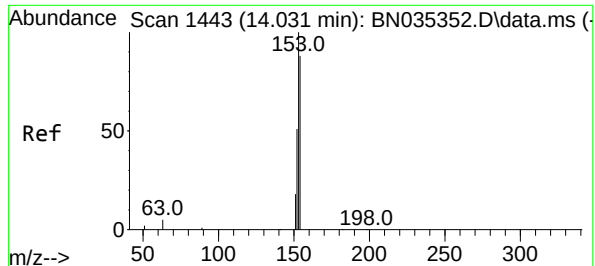
Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 152   | Resp: | 1675  |
| Ion      | Ratio | Lower | Upper |
| 152      | 100   |       |       |
| 151      | 20.4  | 16.2  | 24.2  |
| 153      | 13.1  | 10.4  | 15.6  |





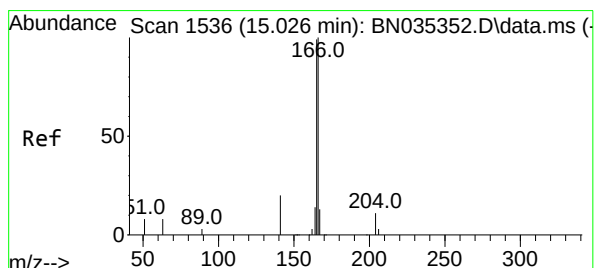
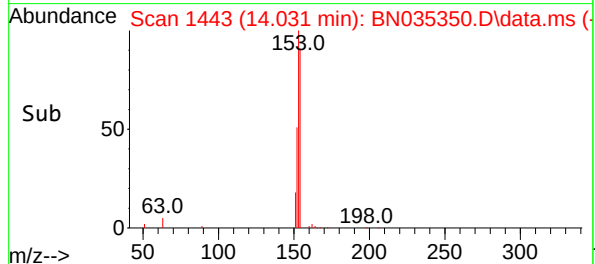
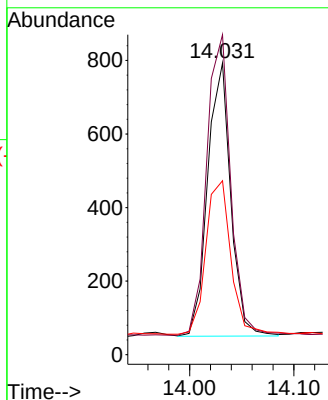
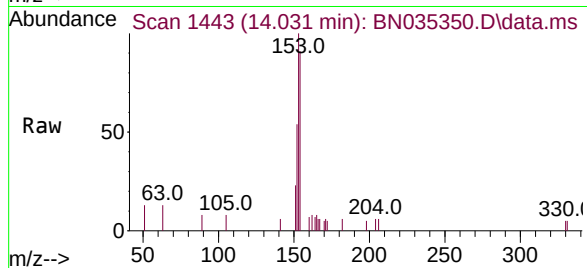
#17  
Acenaphthene  
Concen: 0.100 ng  
RT: 14.031 min Scan# 1443  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

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

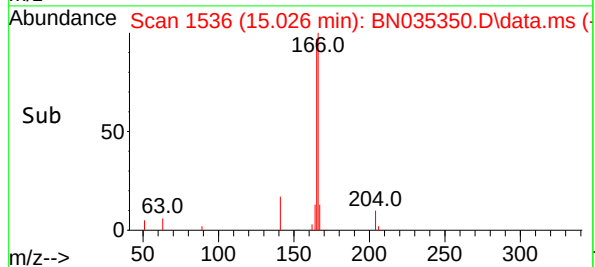
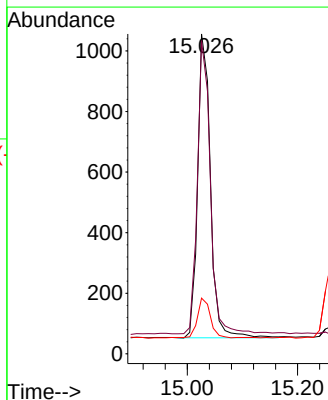
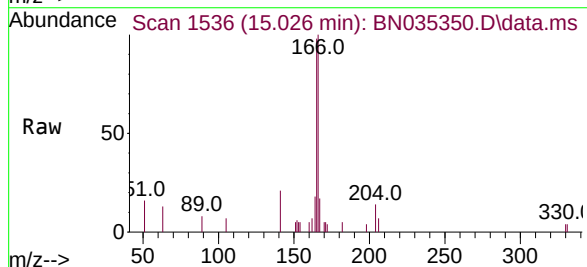
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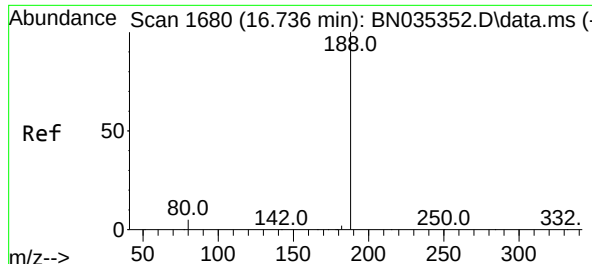
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#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 :

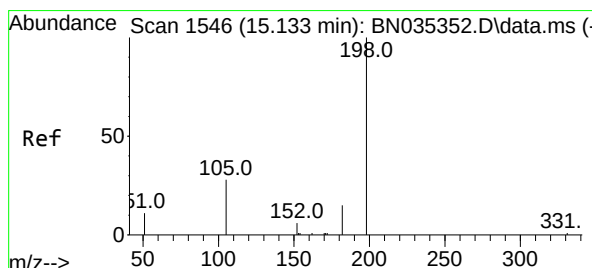
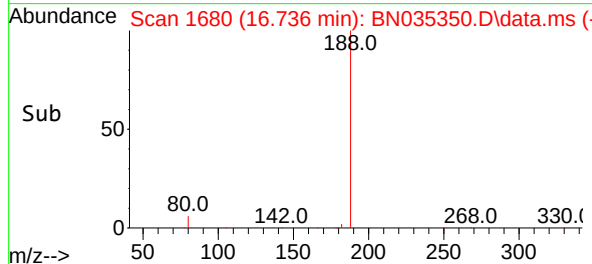
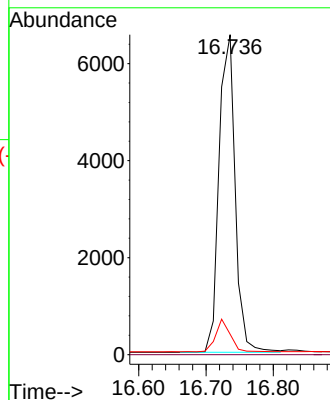
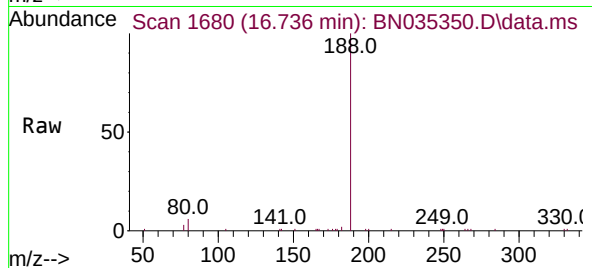
SSTDIC0.1

|             |       |       |
|-------------|-------|-------|
| 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

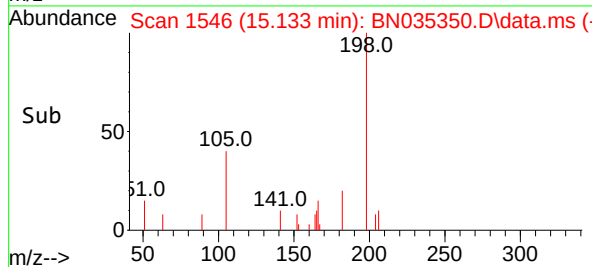
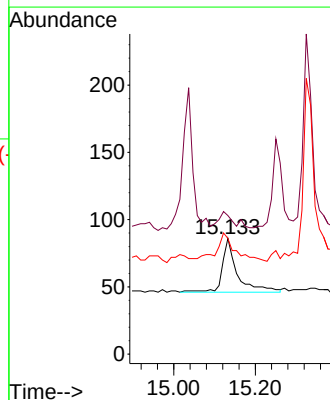
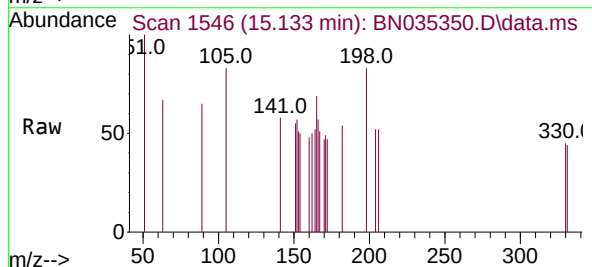
RT: 15.133 min Scan# 1546

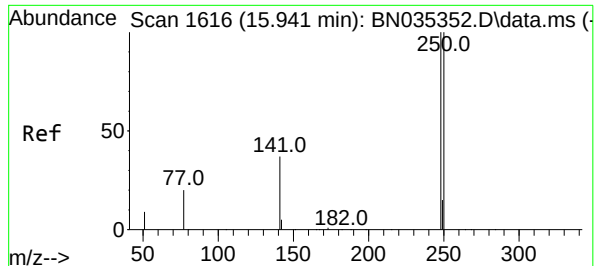
Delta R.T. 0.000 min

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  |





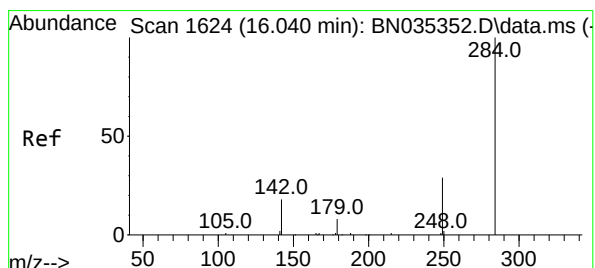
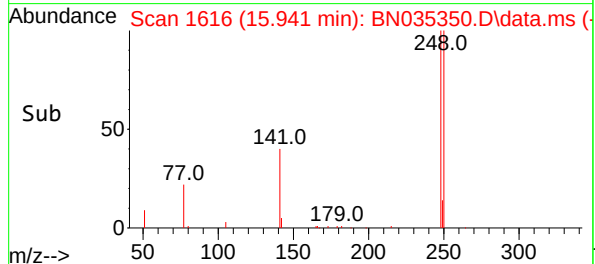
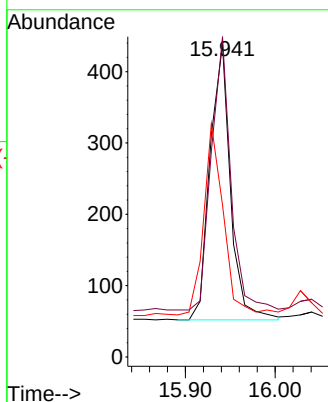
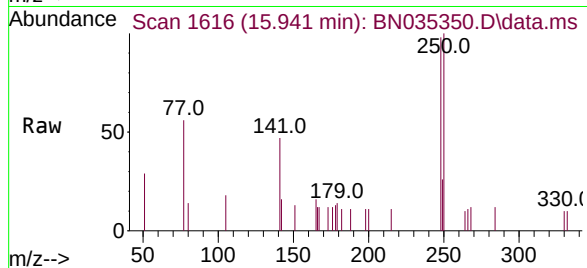
#21  
4-Bromophenyl-phenylether  
Concen: 0.088 ng  
RT: 15.941 min Scan# 1616  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

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

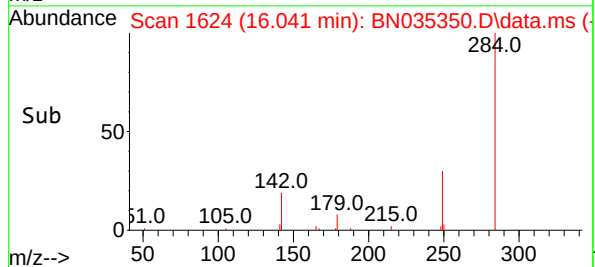
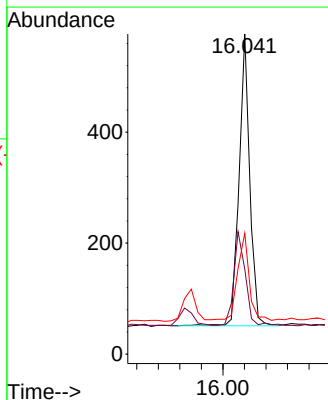
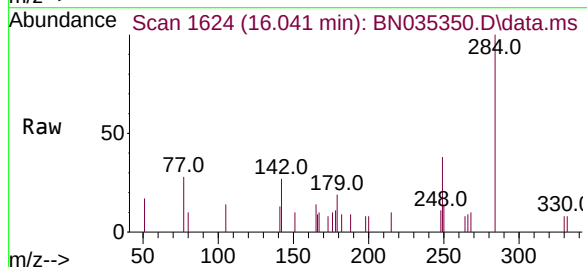
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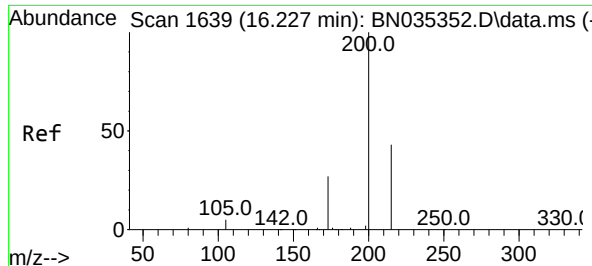
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#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

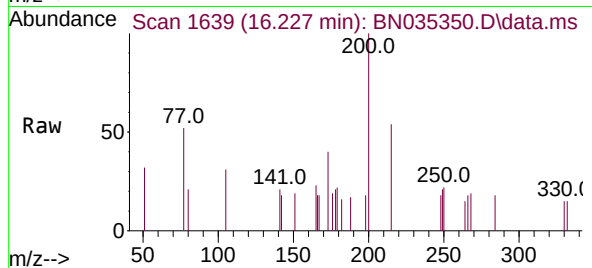
Tgt Ion:284 Resp: 720  
Ion Ratio Lower Upper  
284 100  
142 35.4 26.7 40.1  
249 32.2 24.6 36.8





#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

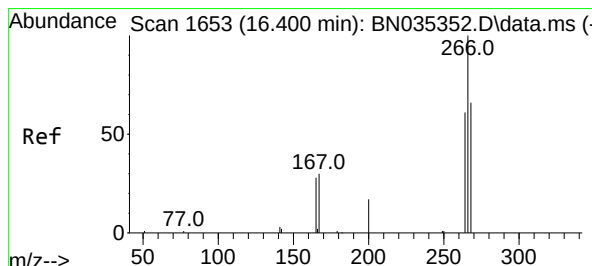
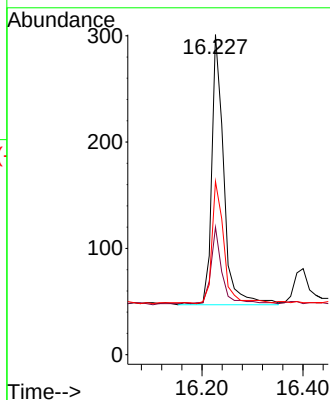
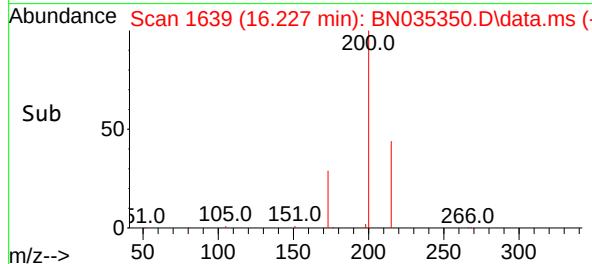
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1



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

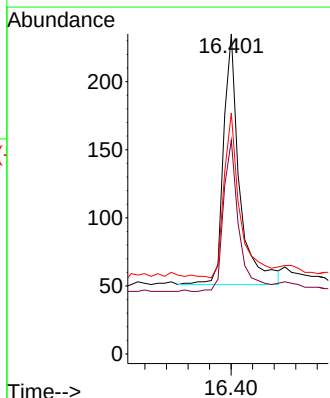
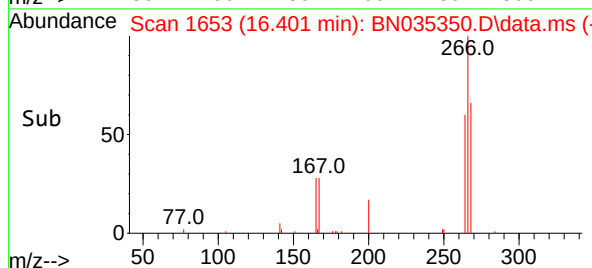
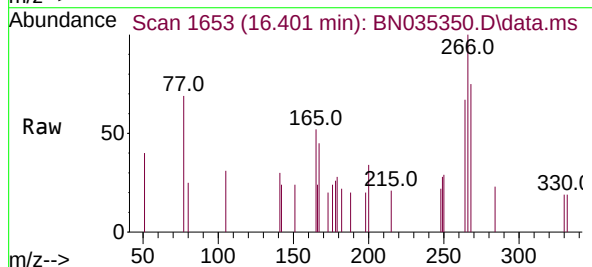
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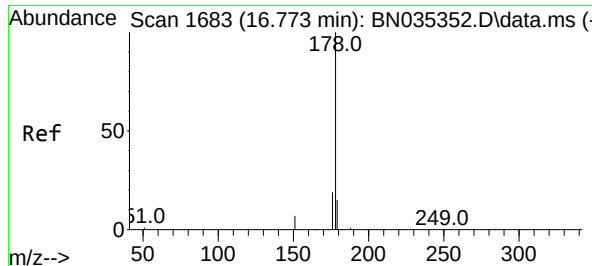
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#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





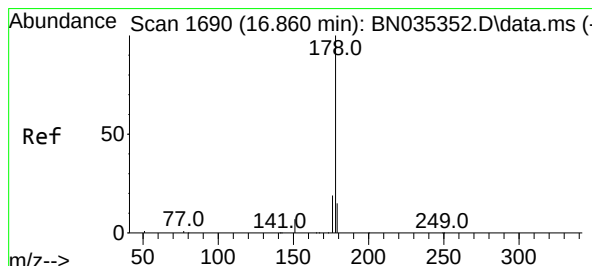
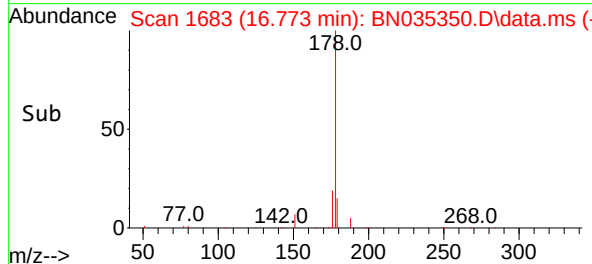
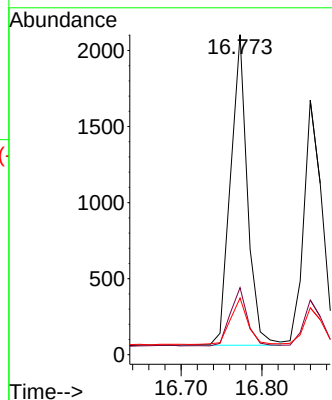
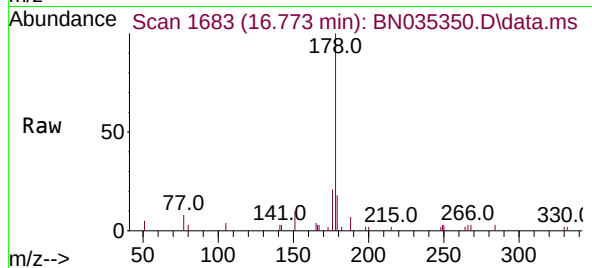
#25  
Phenanthrene  
Concen: 0.104 ng  
RT: 16.773 min Scan# 1683  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

Tgt Ion:178 Resp: 2961  
Ion Ratio Lower Upper  
178 100  
176 18.8 15.4 23.2  
179 15.6 12.3 18.5

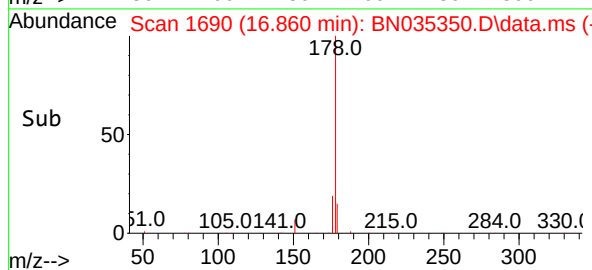
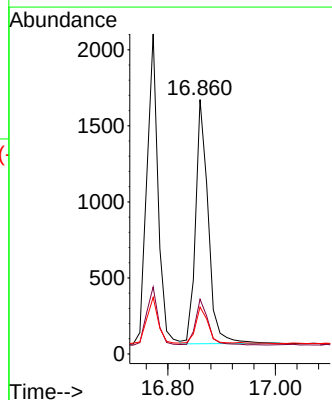
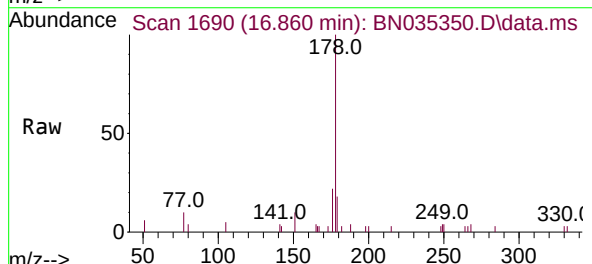
Manual Integrations  
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Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024

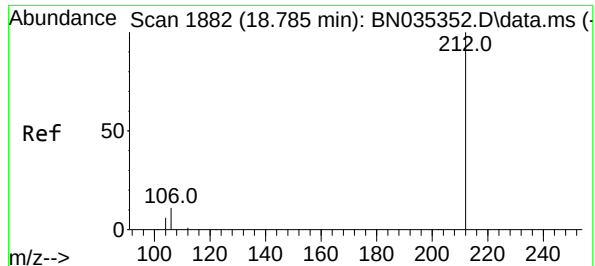


#26  
Anthracene  
Concen: 0.100 ng  
RT: 16.860 min Scan# 1690  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

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 :

SSTDIC0.1

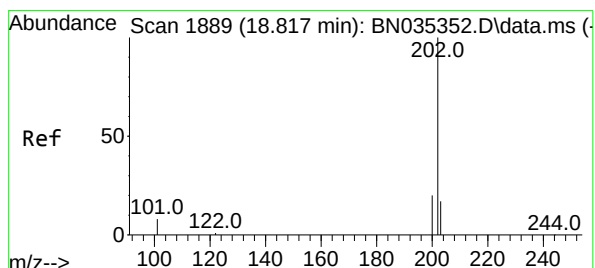
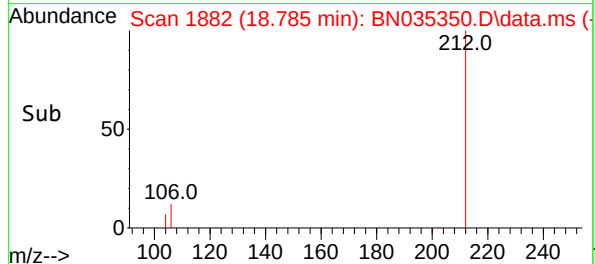
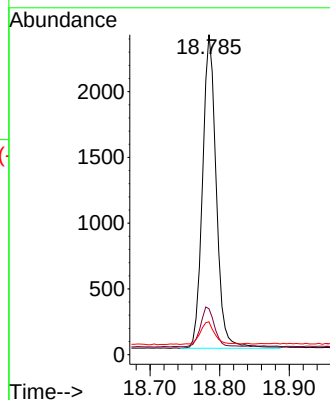
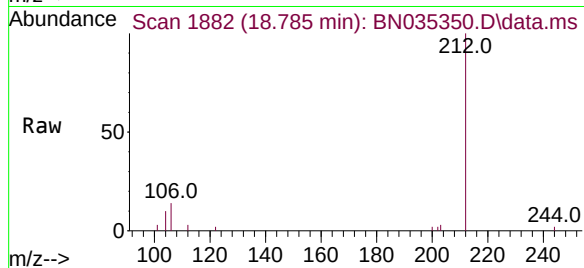
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 212   | Resp: | 326   |
| Ion      | Ratio | Lower | Upper |
| 212      | 100   |       |       |
| 106      | 12.8  | 9.2   | 13.8  |
| 104      | 7.6   | 5.3   | 7.9   |

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

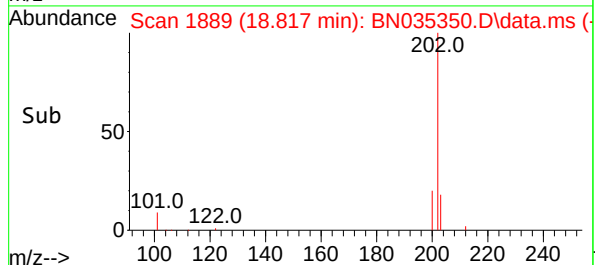
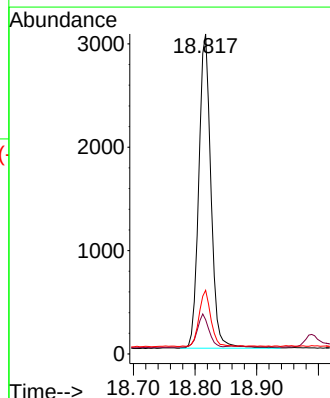
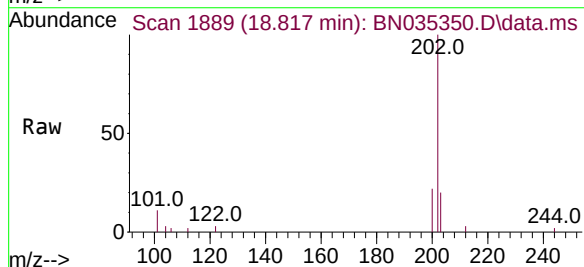
RT: 18.817 min Scan# 1889

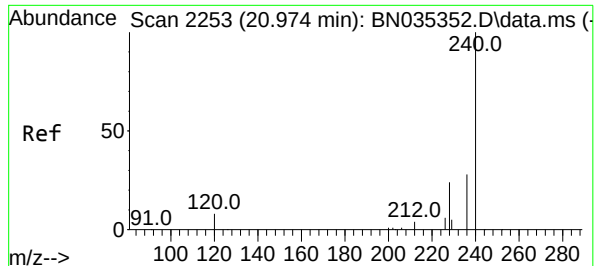
Delta R.T. 0.000 min

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

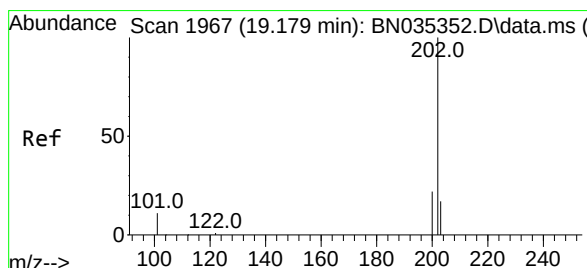
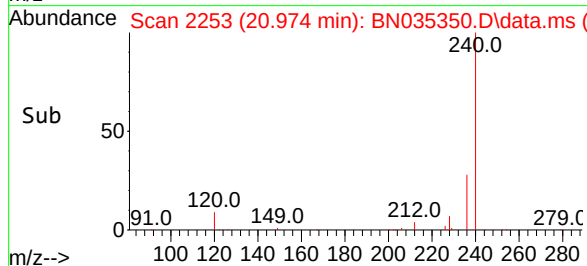
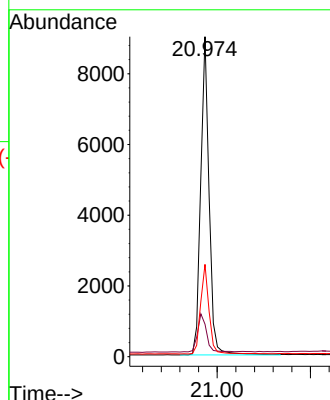
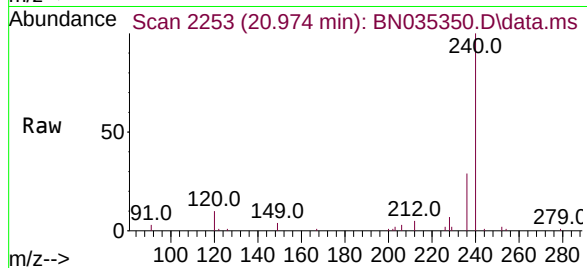
ClientSampleId :

SSTDIC0.1

|           |       |       |       |
|-----------|-------|-------|-------|
| 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  |

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



#30

Pyrene

Concen: 0.119 ng

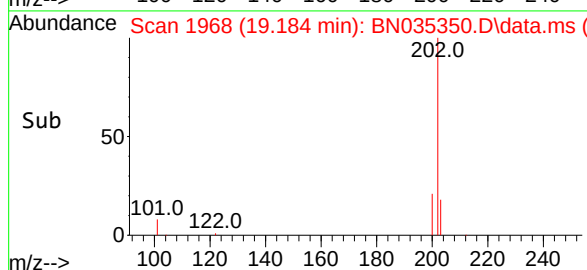
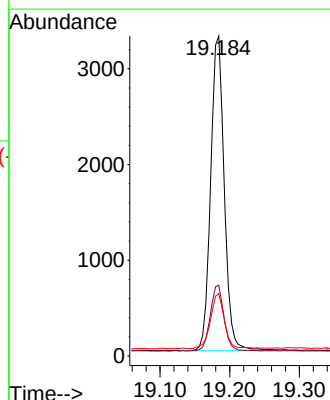
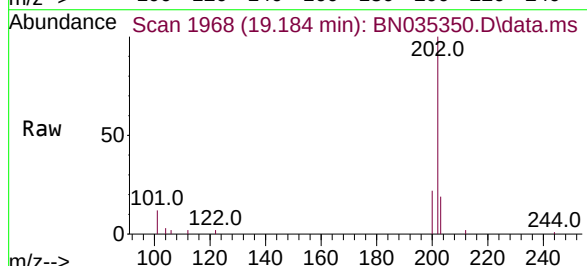
RT: 19.184 min Scan# 1968

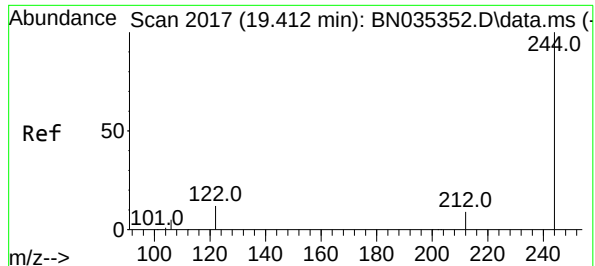
Delta R.T. 0.005 min

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

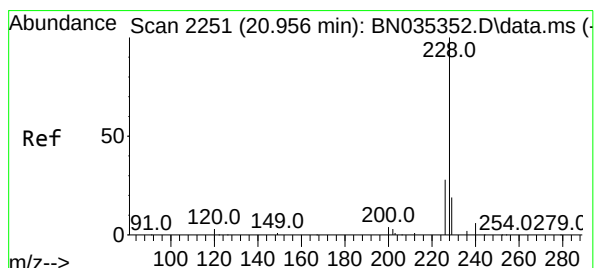
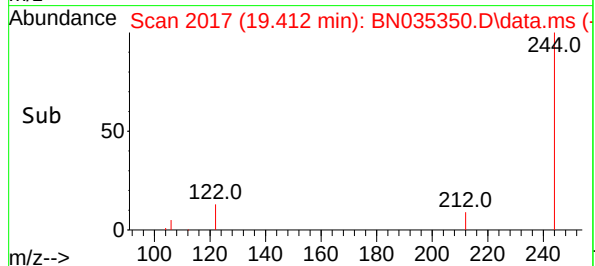
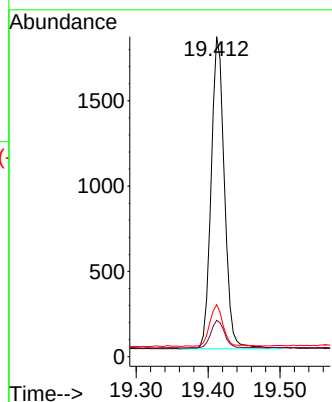
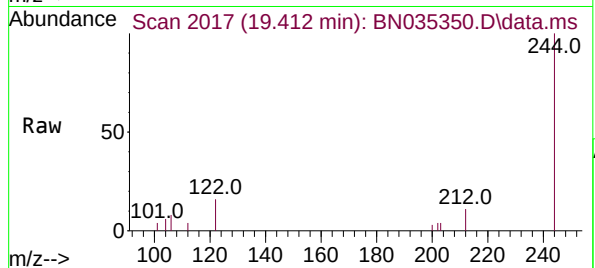
ClientSampleId :

SSTDICC0.1

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 11.4  | 8.1   | 12.1  |
| 122     | 16.3  | 10.3  | 15.5  |

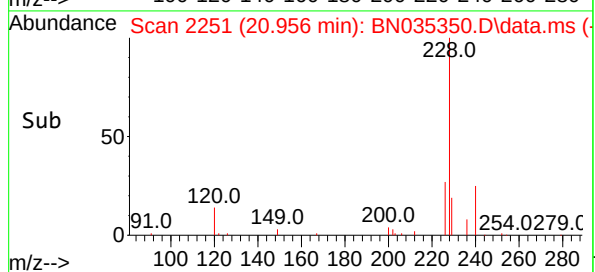
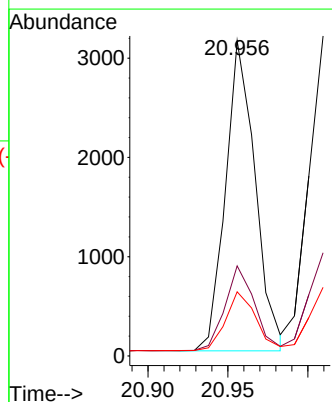
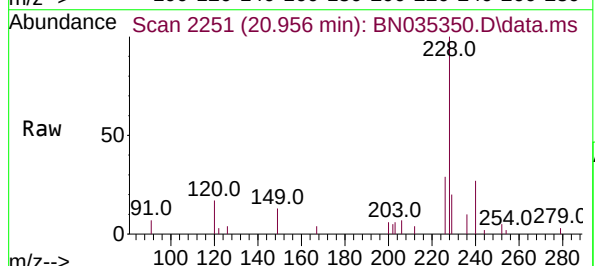
Manual Integrations  
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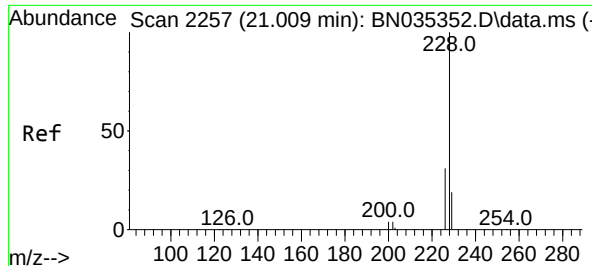
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#32  
Benzo(a)anthracene  
Concen: 0.103 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 | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 28.5  | 22.5  | 33.7  |
| 229     | 20.4  | 15.8  | 23.8  |





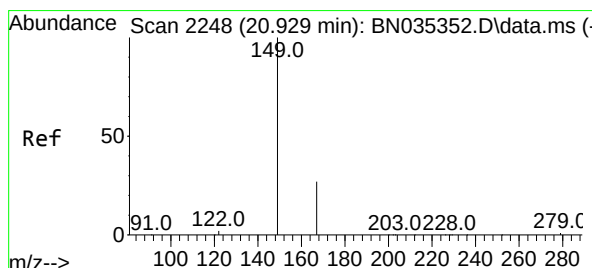
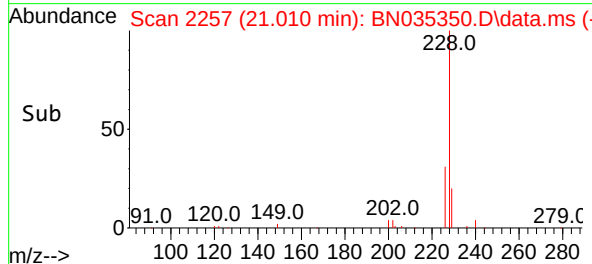
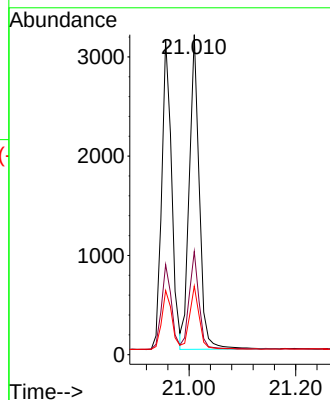
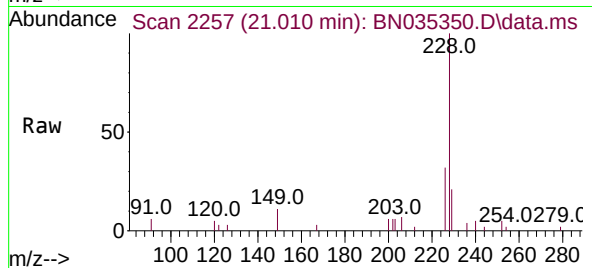
#33  
Chrysene  
Concen: 0.106 ng  
RT: 21.010 min Scan# 210  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

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

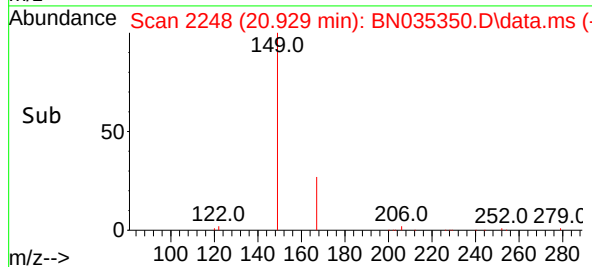
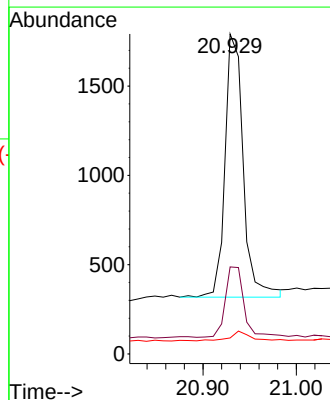
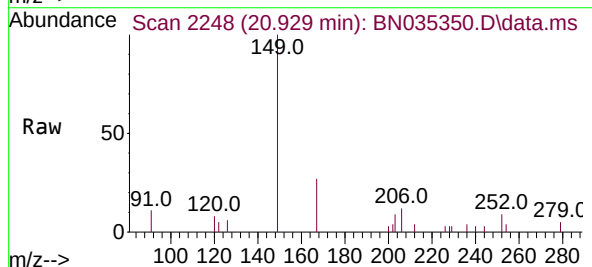
Manual Integrations  
APPROVED

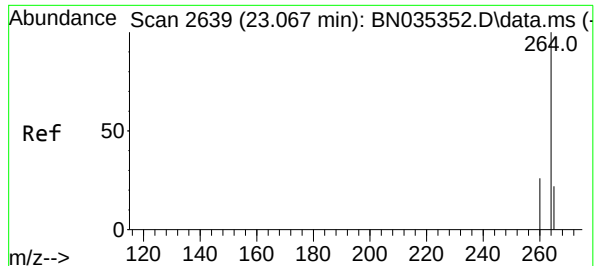
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#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

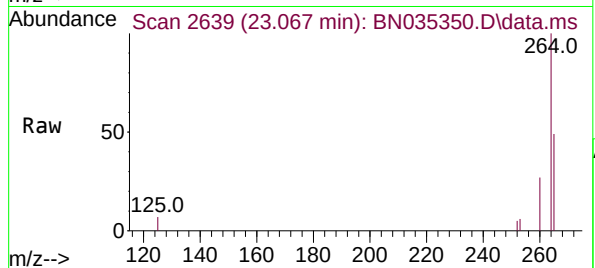
Tgt Ion:149 Resp: 1999  
Ion Ratio Lower Upper  
149 100  
167 27.5 22.2 33.4  
279 3.6 2.7 4.1





#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

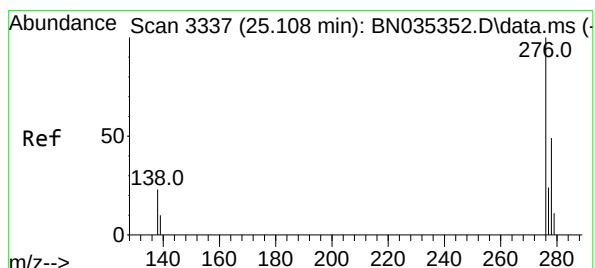
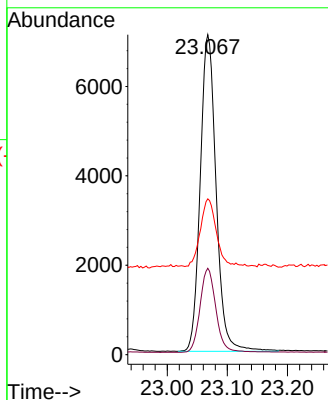
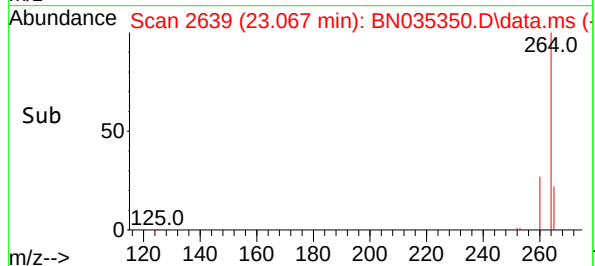
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDIC0.1



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

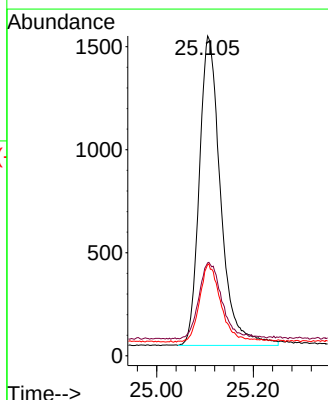
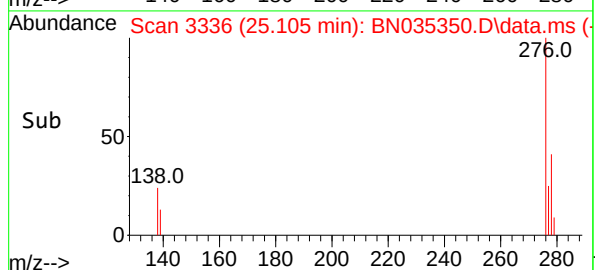
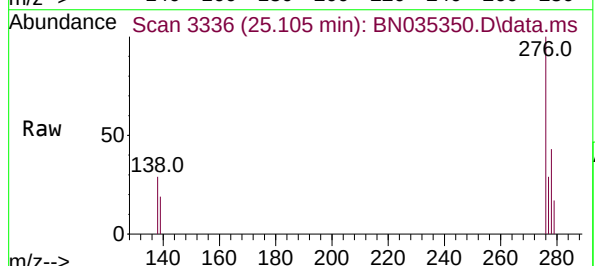
Manual Integrations  
APPROVED

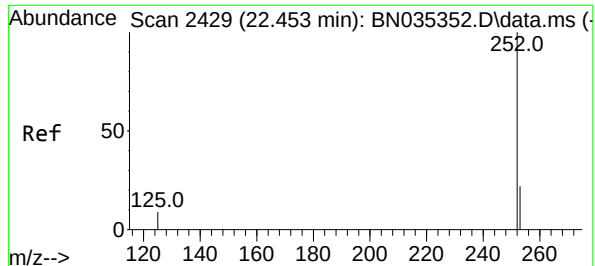
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.088 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

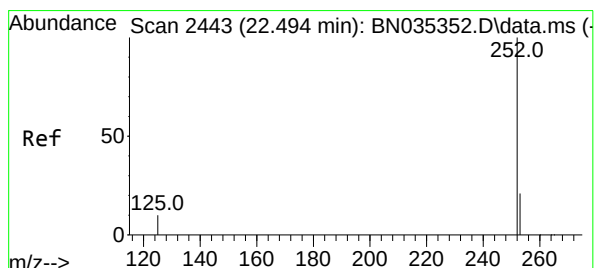
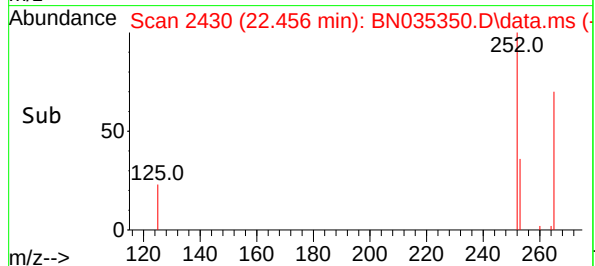
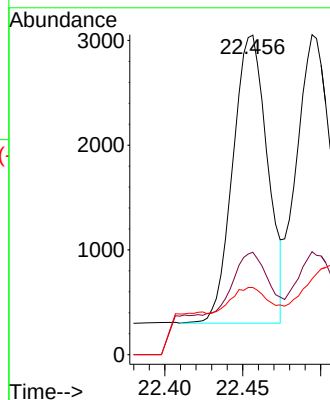
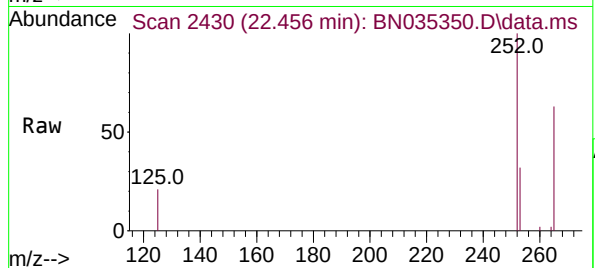
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:252 | Resp: | 424       |
| Ion Ratio   | Lower | Upper     |
| 252         | 100   |           |
| 253         | 32.1  | 19.6 29.4 |
| 125         | 21.0  | 9.6 14.4  |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024



#38

Benzo(k)fluoranthene

Concen: 0.107 ng m

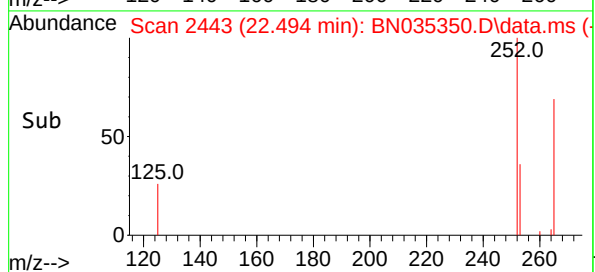
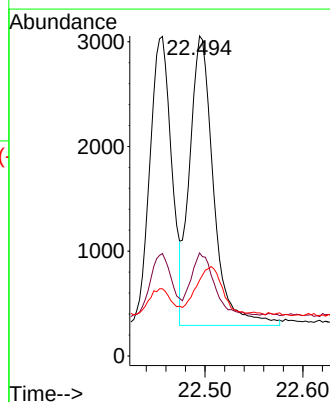
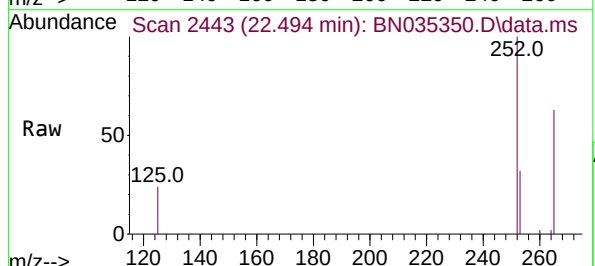
RT: 22.494 min Scan# 2443

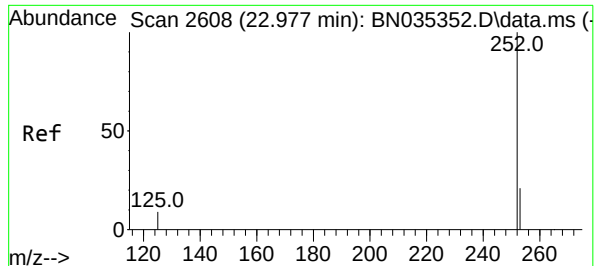
Delta R.T. 0.000 min

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

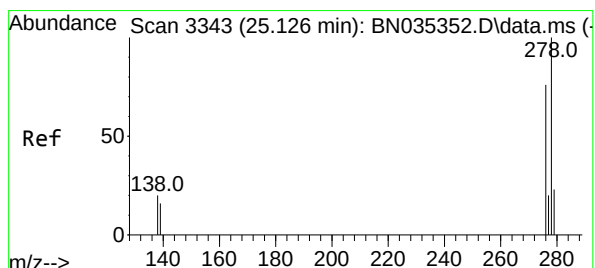
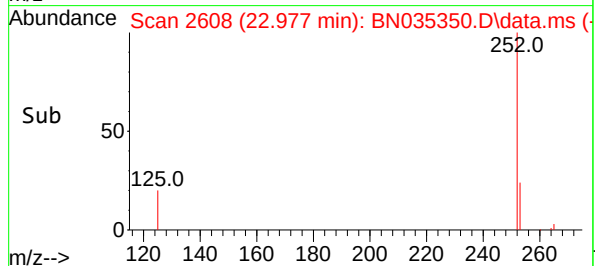
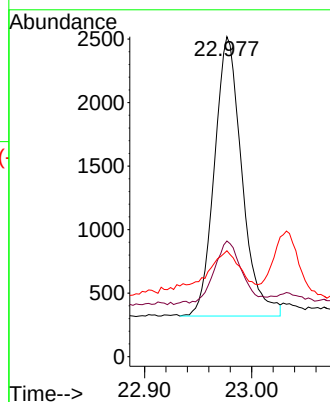
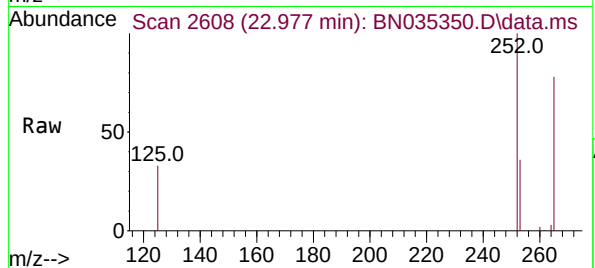
Instrument :

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

#40

Dibenzo(a,h)anthracene

Concen: 0.087 ng

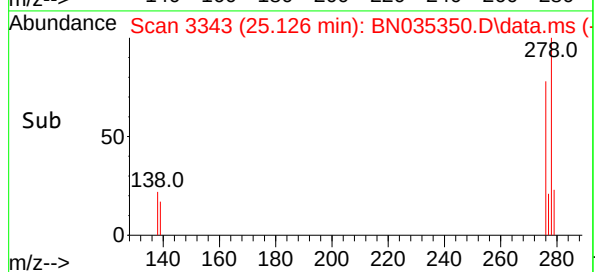
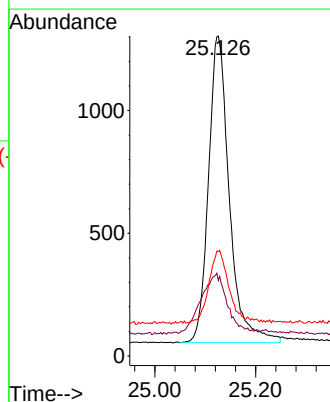
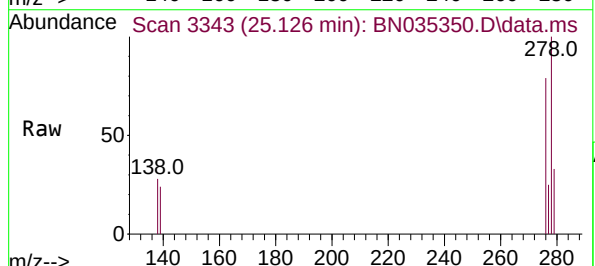
RT: 25.126 min Scan# 3343

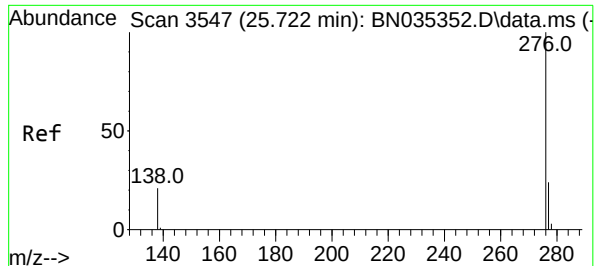
Delta R.T. 0.000 min

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

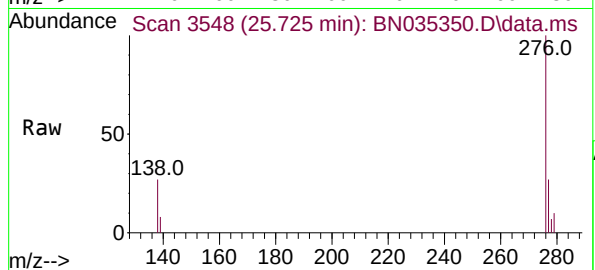
Acq: 27 Nov 2024 15:34

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.1



Tgt Ion:276 Resp: 386

Ion Ratio Lower Upper

276 100

277 26.9 19.9 29.9

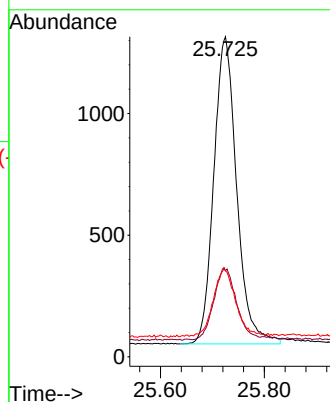
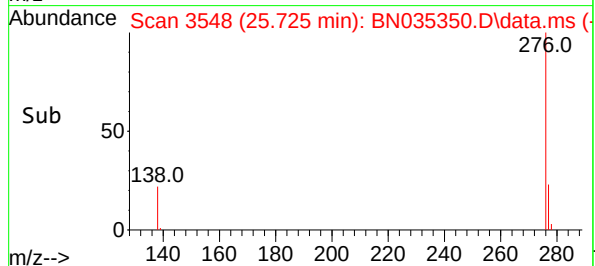
138 26.8 17.8 26.8

Manual Integrations

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 : 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

## APPROVED

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              |        |      |          |       |       |          |
| 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

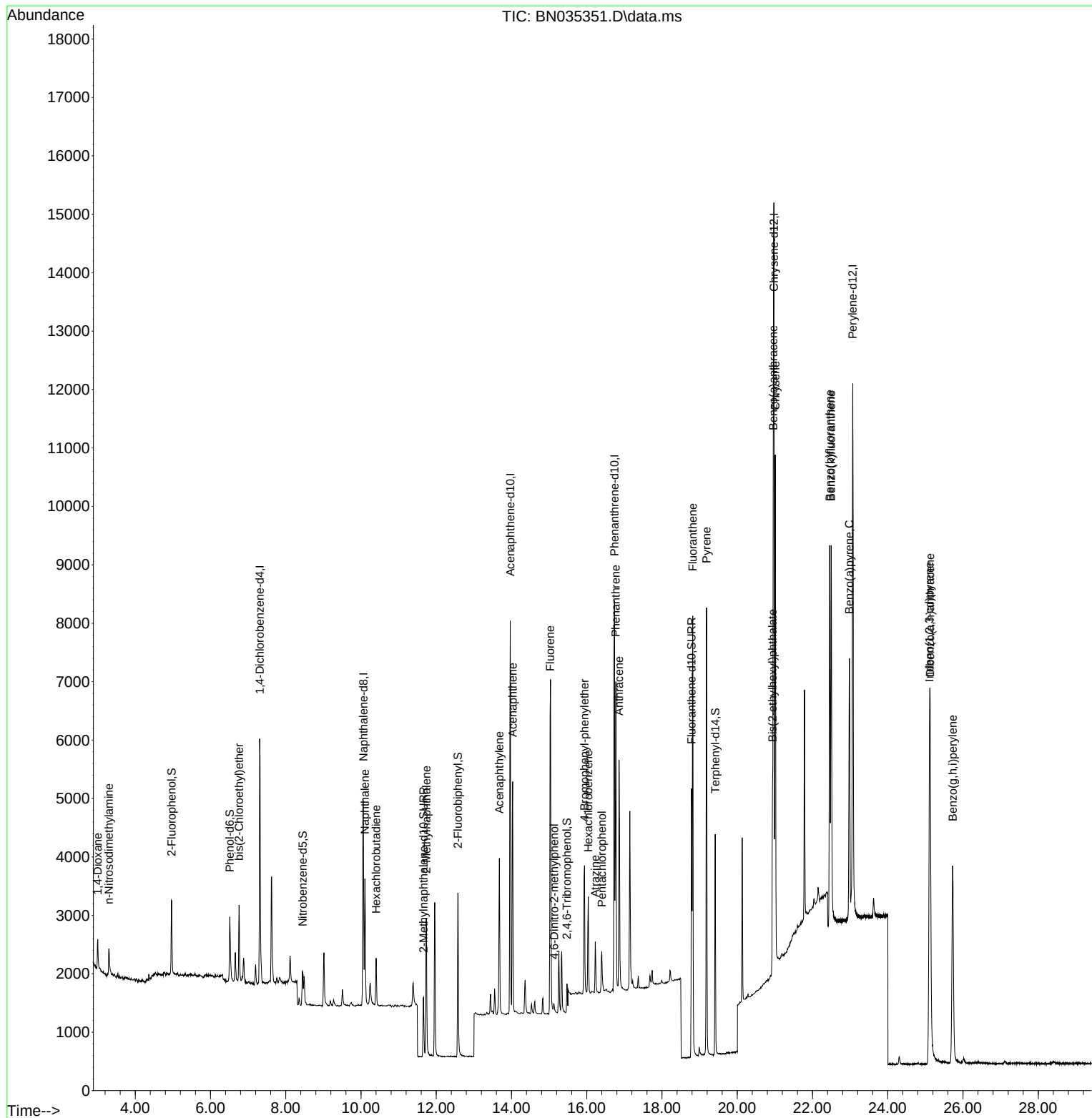
## Manual Integrations

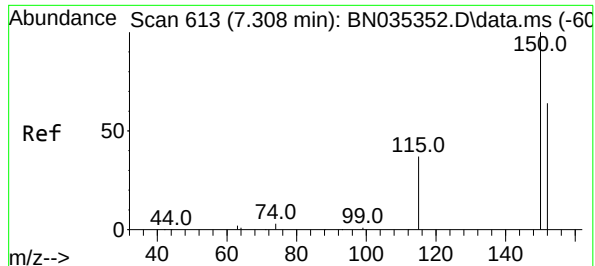
## APPROVED

Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024

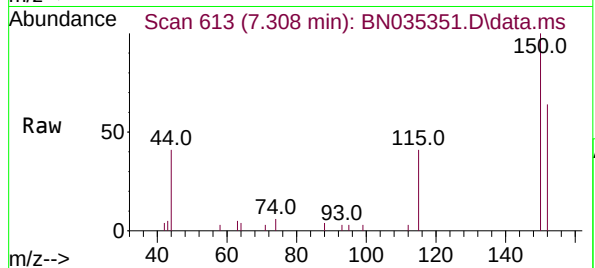
Quant Time: Nov 27 22:52:33 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Nov 27 22:48:24 2024  
Response via : Initial Calibration





#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

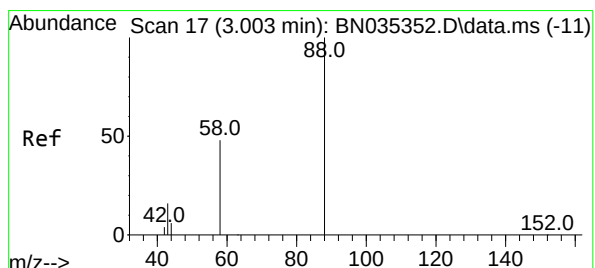
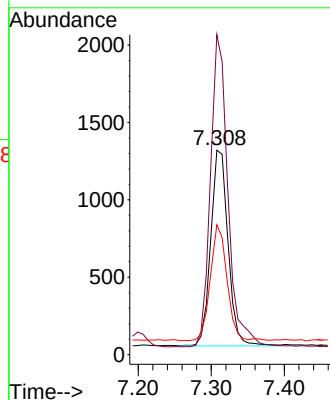
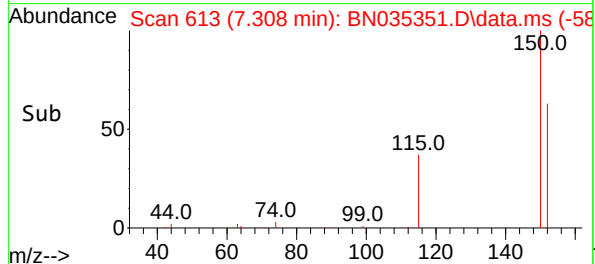
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2



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

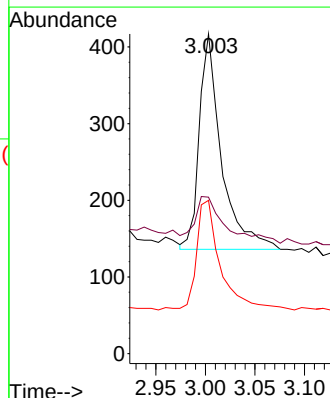
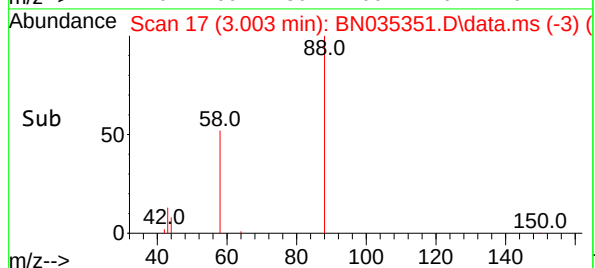
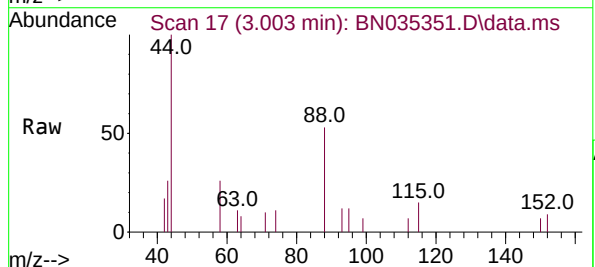
Manual Integrations  
APPROVED

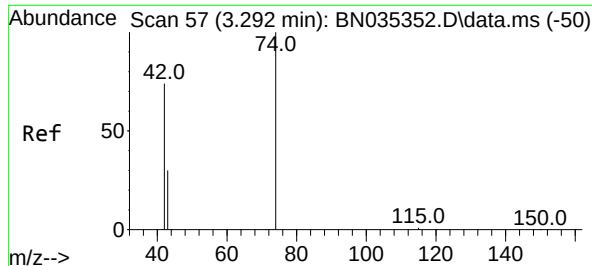
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#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

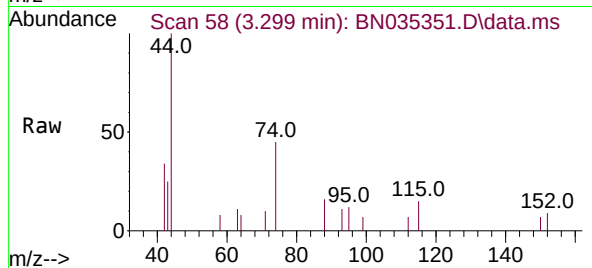
Tgt Ion: 88 Resp: 435  
Ion Ratio Lower Upper  
88 100  
43 29.9 17.2 25.8#  
58 55.2 44.5 66.7





#3  
n-Nitrosodimethylamine  
Concen: 0.179 ng  
RT: 3.299 min Scan# 58  
Delta R.T. 0.007 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

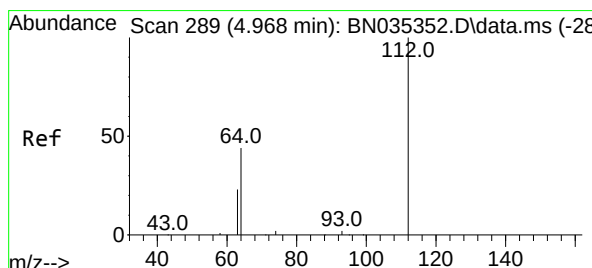
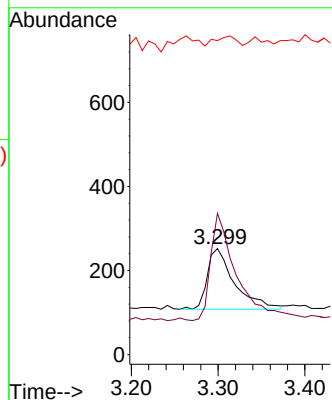
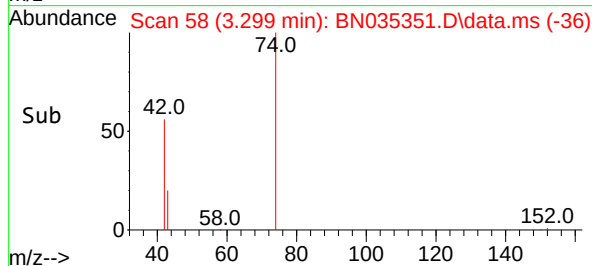
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2



Tgt Ion: 42 Resp: 31  
Ion Ratio Lower Upper  
42 100  
74 172.4 124.9 187.3  
44 16.2 2.2 3.4

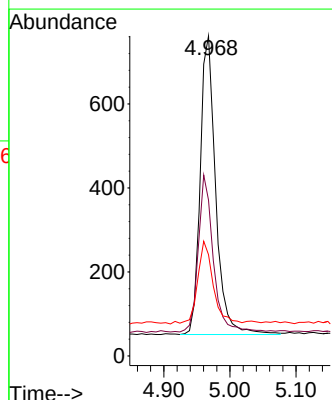
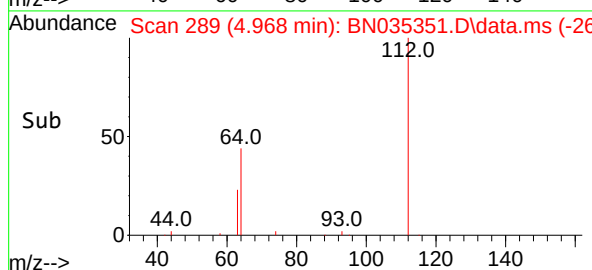
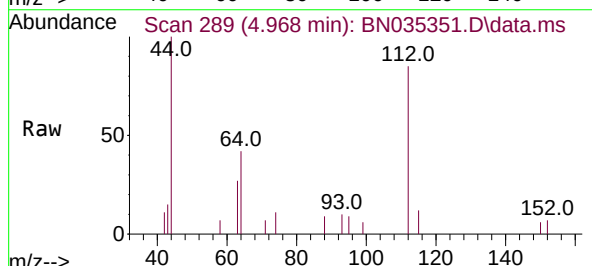
Manual Integrations  
APPROVED

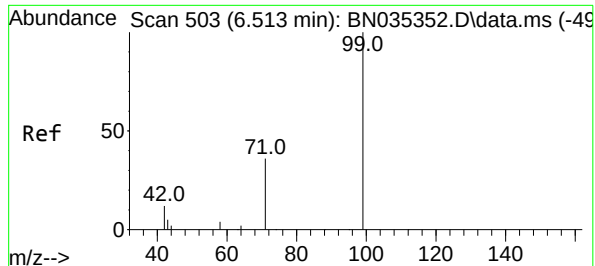
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



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

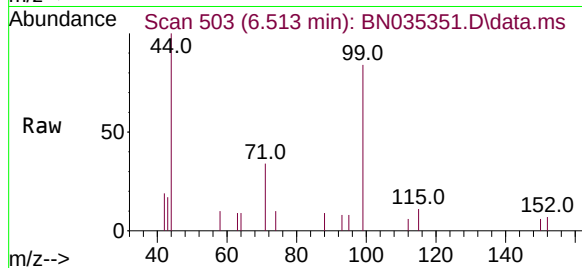
Tgt Ion:112 Resp: 1159  
Ion Ratio Lower Upper  
112 100  
64 51.2 39.8 59.8  
63 27.9 21.0 31.6





#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

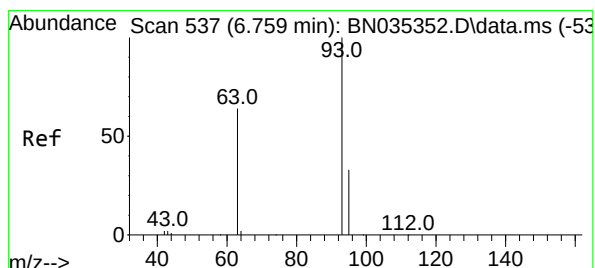
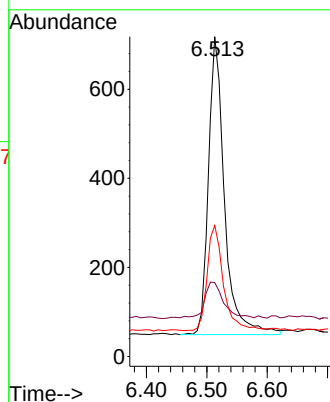
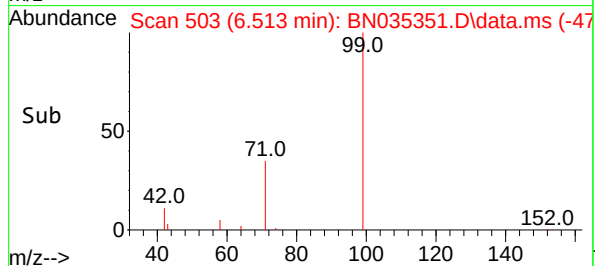
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2



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

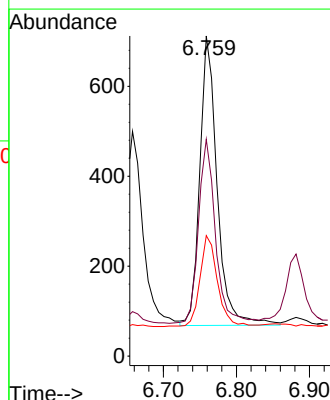
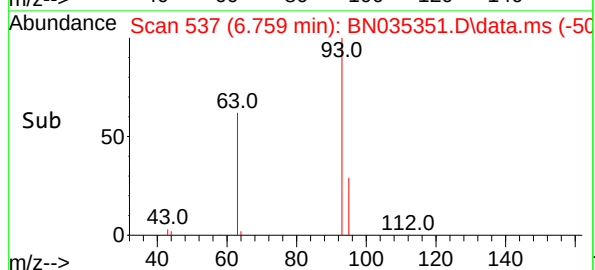
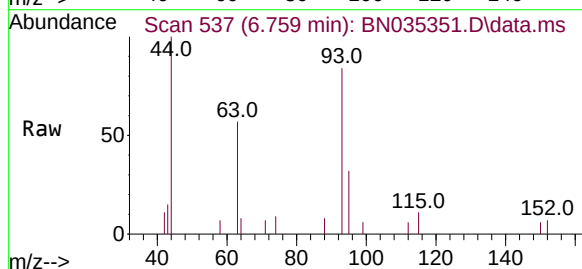
Manual Integrations  
APPROVED

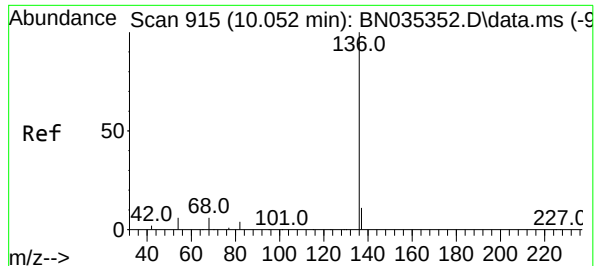
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#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





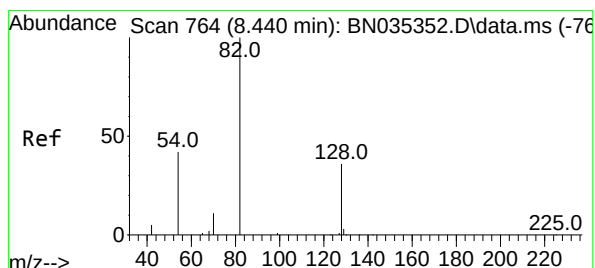
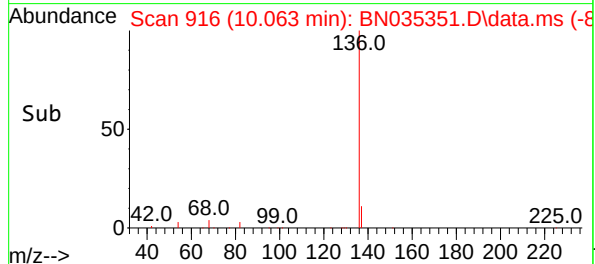
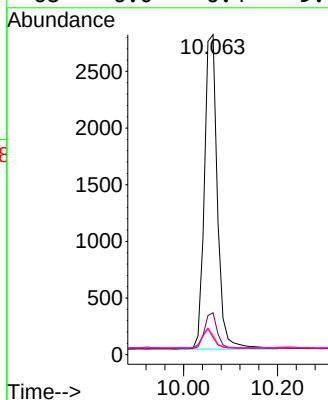
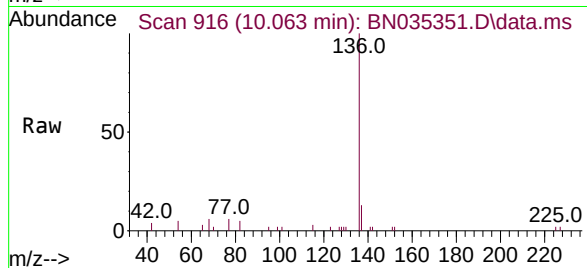
#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.063 min Scan# 915  
Delta R.T. 0.011 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

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#

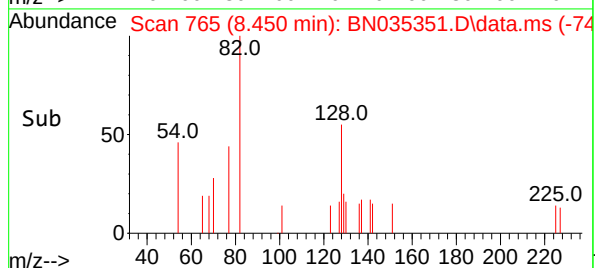
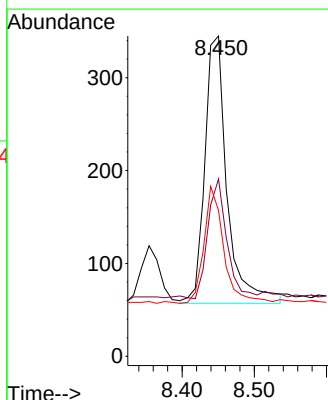
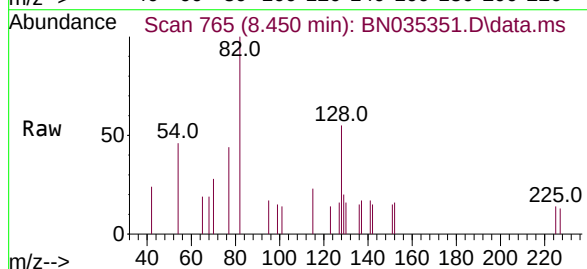
Manual Integrations  
APPROVED

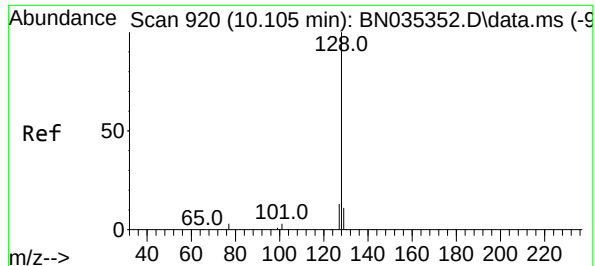
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#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





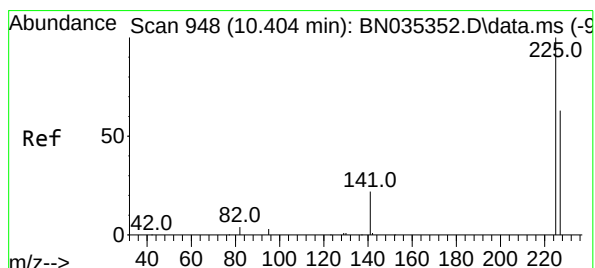
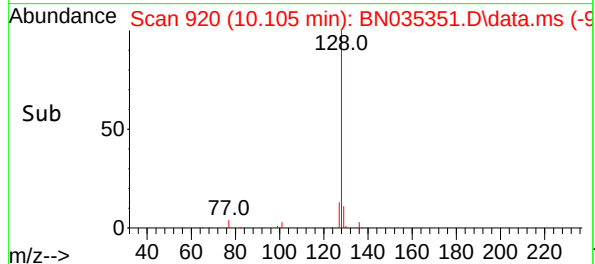
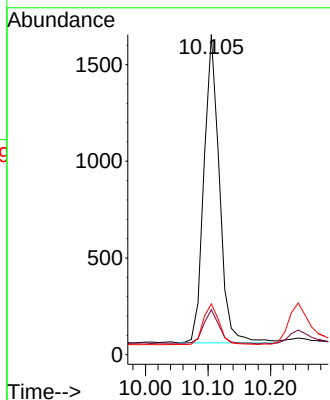
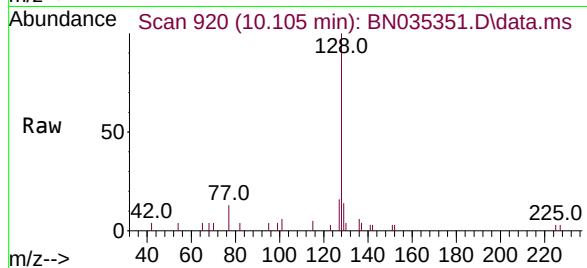
#9  
Naphthalene  
Concen: 0.197 ng  
RT: 10.105 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

Tgt Ion:128 Resp: 274  
Ion Ratio Lower Upper  
128 100  
129 14.0 9.8 14.6  
127 15.9 11.4 17.2

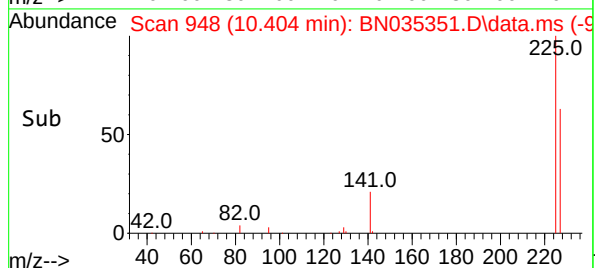
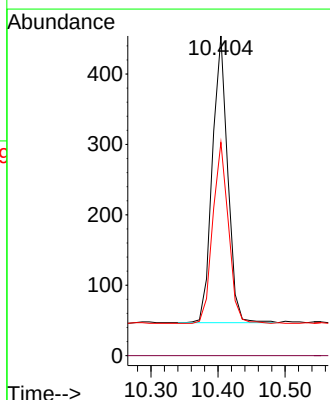
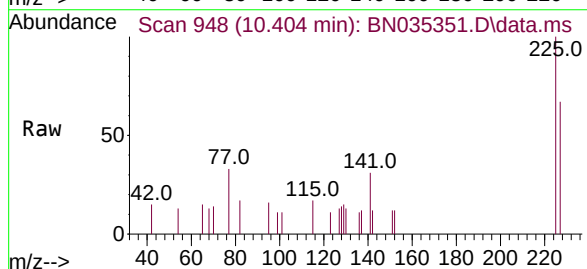
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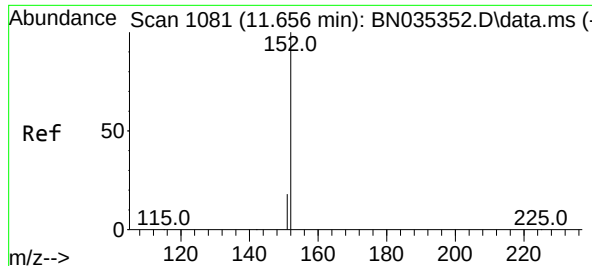
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#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

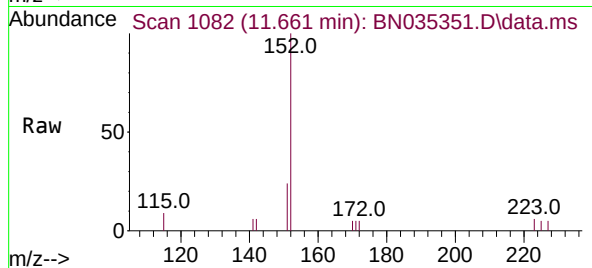
Tgt Ion:225 Resp: 646  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 64.7 51.3 76.9





#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

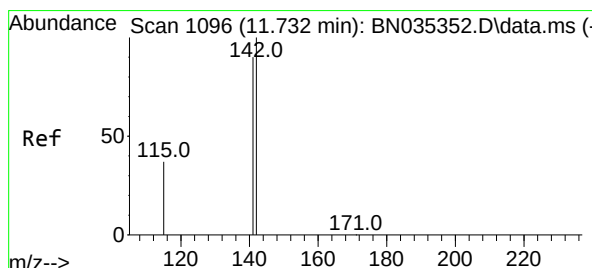
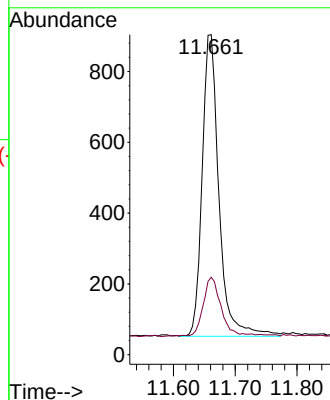
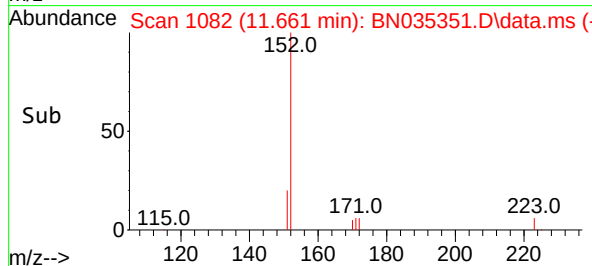
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2



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

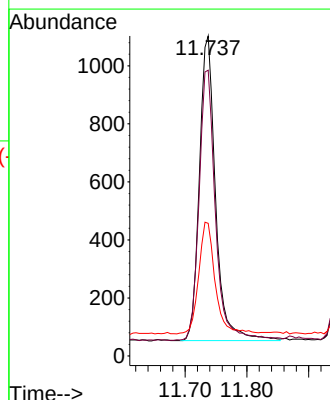
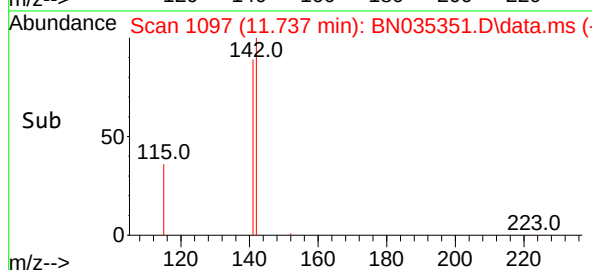
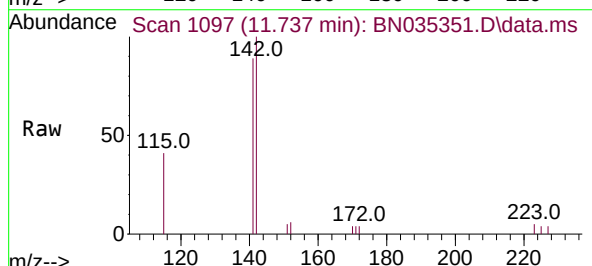
Manual Integrations  
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Supervised By :mohammad ahmed 12/03/2024

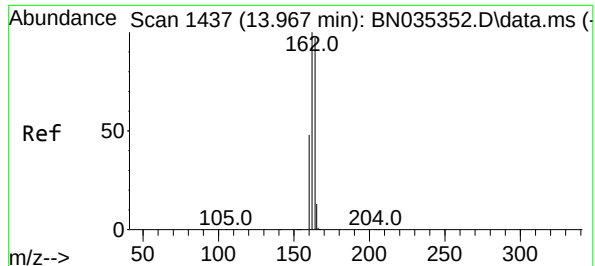


#12  
2-Methylnaphthalene  
Concen: 0.186 ng  
RT: 11.737 min Scan# 1097  
Delta R.T. 0.005 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

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

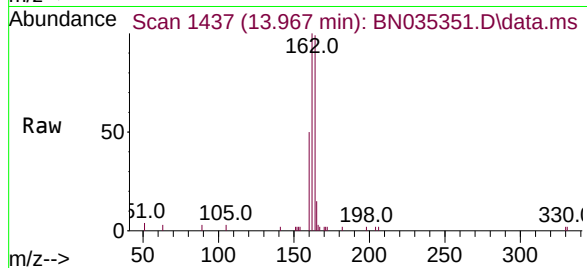






#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.967 min Scan# 1437  
Delta R.T. -0.000 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

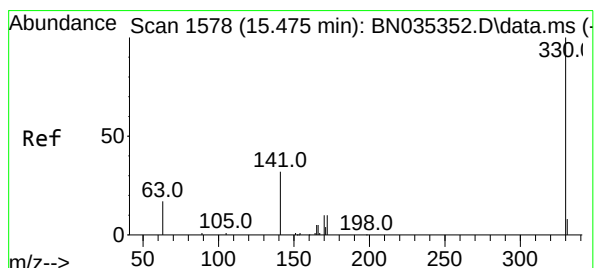
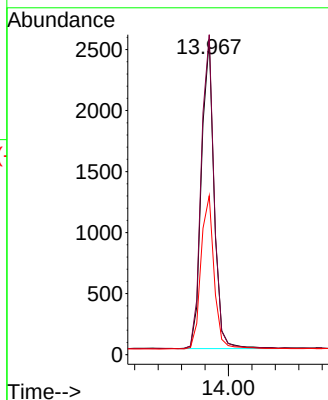
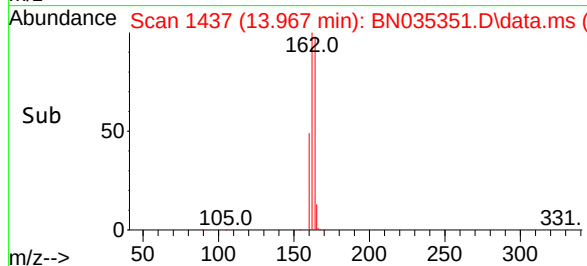
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2



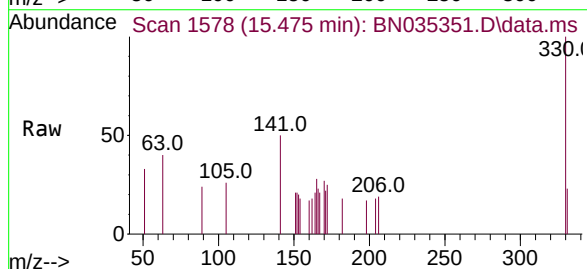
Tgt Ion:164 Resp: 380  
Ion Ratio Lower Upper  
164 100  
162 101.5 82.2 123.2  
160 50.4 40.1 60.1

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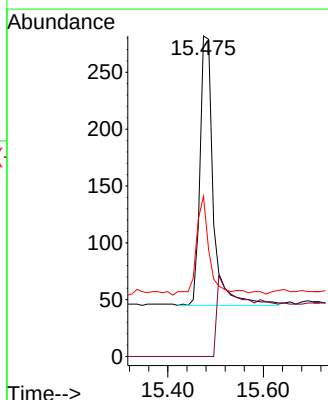
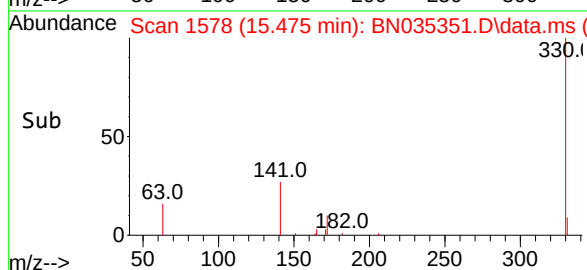
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024

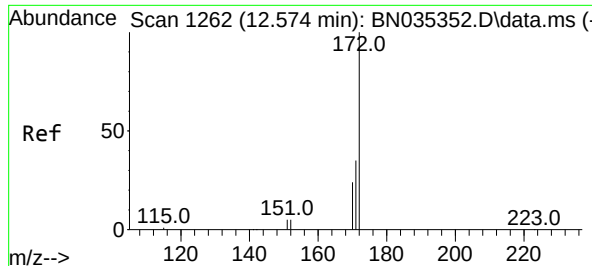


#14  
2,4,6-Tribromophenol  
Concen: 0.179 ng  
RT: 15.475 min Scan# 1578  
Delta R.T. -0.000 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10



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# 11

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

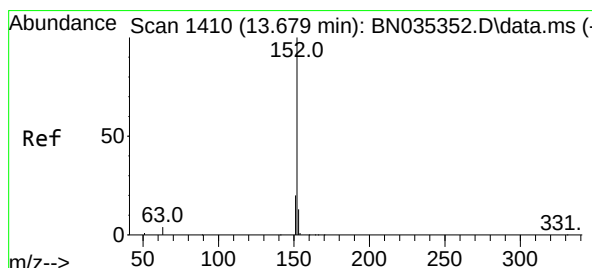
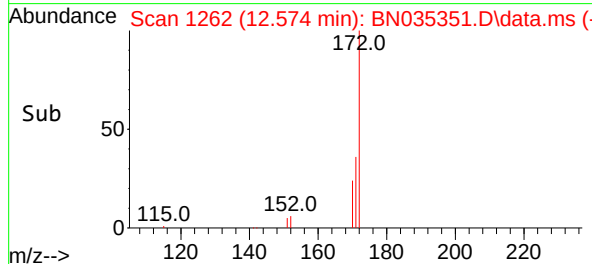
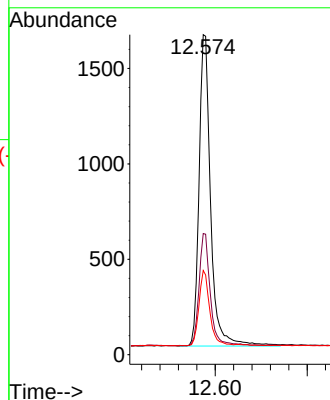
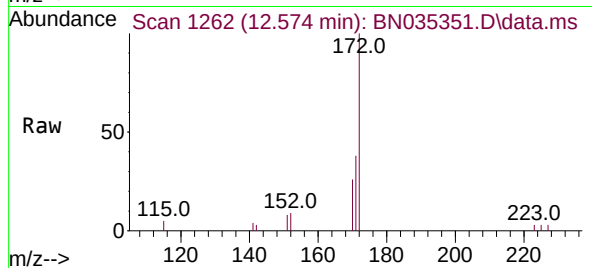
170 26.3 19.8 29.8

Manual Integrations

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Reviewed By :Yogesh Patel 11/29/2024

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

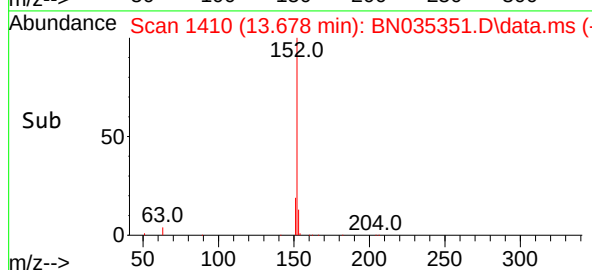
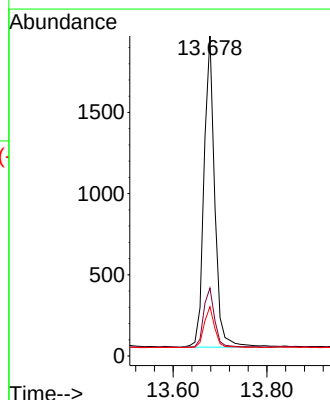
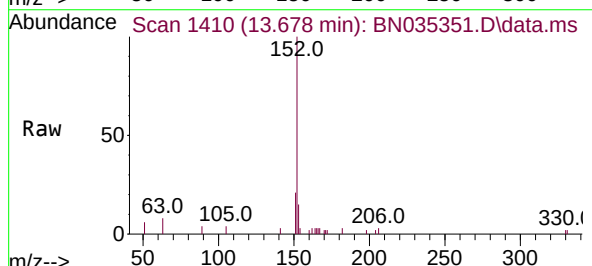
Tgt Ion:152 Resp: 3047

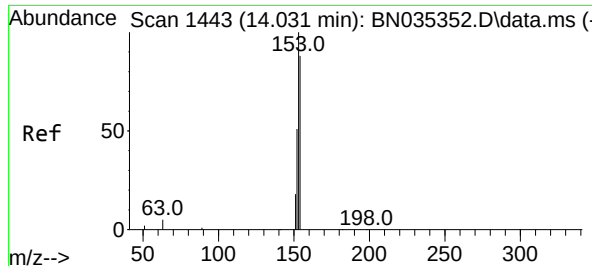
Ion Ratio Lower Upper

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 :

SSTDIC0.2

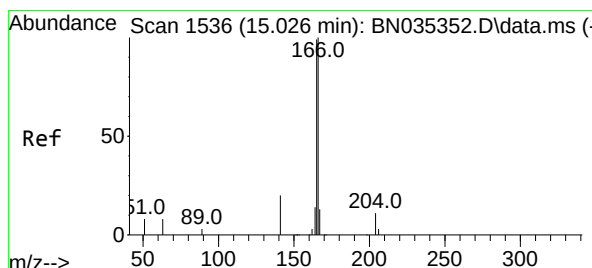
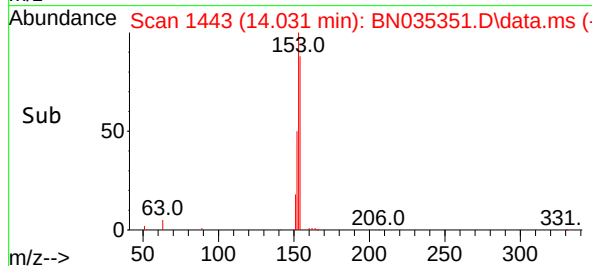
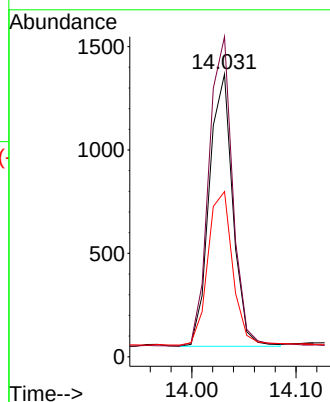
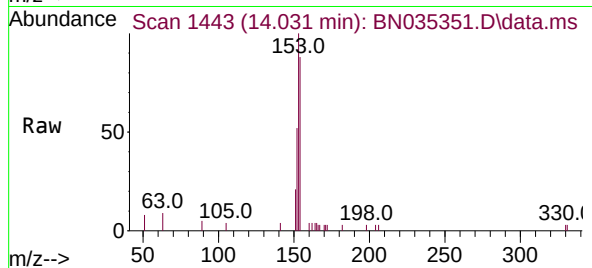
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 154   | Resp: | 2064  |
| Ion      | Ratio | Lower | Upper |
| 154      | 100   |       |       |
| 153      | 115.2 | 92.6  | 139.0 |
| 152      | 60.7  | 49.0  | 73.6  |

Manual Integrations

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Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024



#18

Fluorene

Concen: 0.188 ng

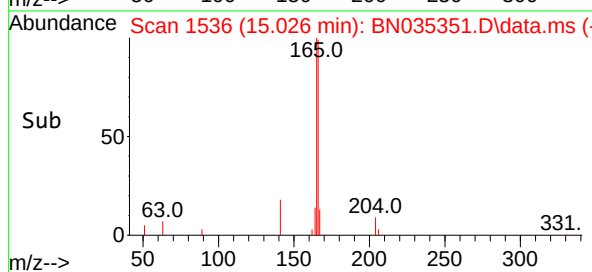
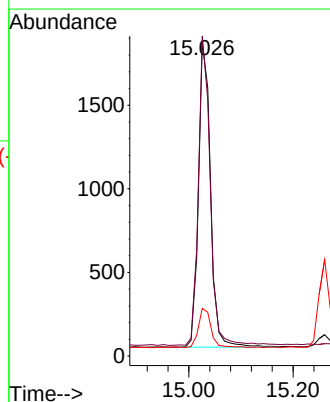
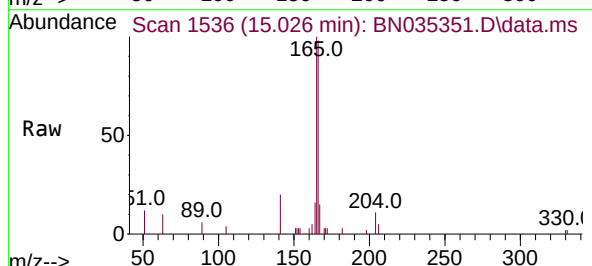
RT: 15.026 min Scan# 1536

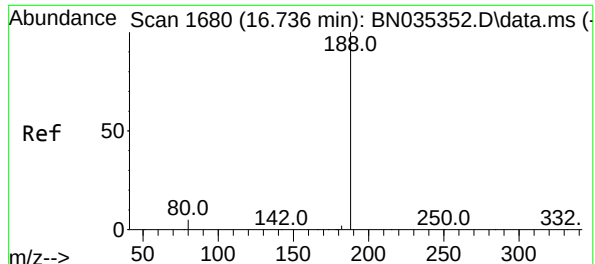
Delta R.T. -0.000 min

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# 1680

Delta R.T. -0.000 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

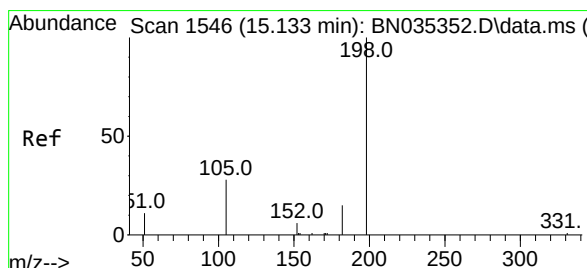
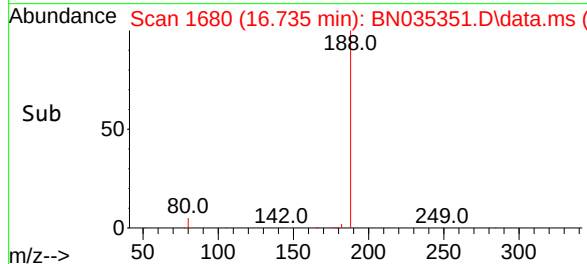
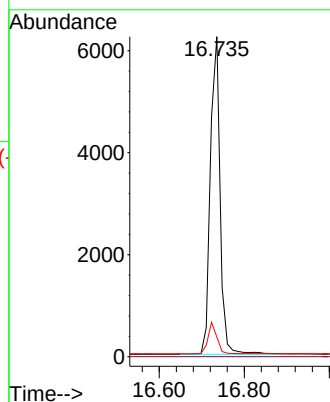
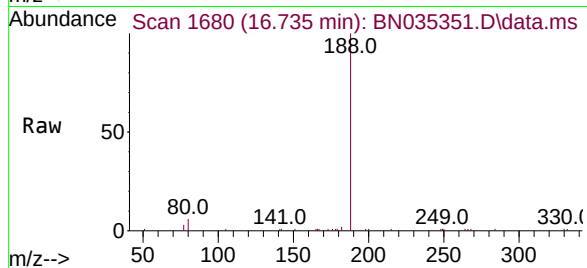
Instrument :

BNA\_N

ClientSampleId :

SSTDIC0.2

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

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

#20

4,6-Dinitro-2-methylphenol

Concen: 0.074 ng

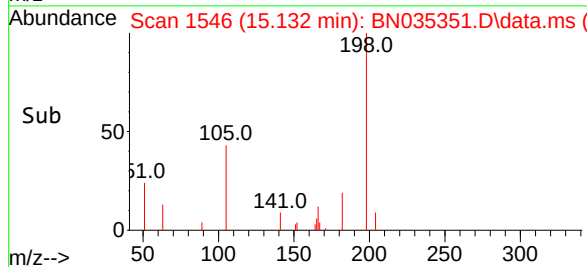
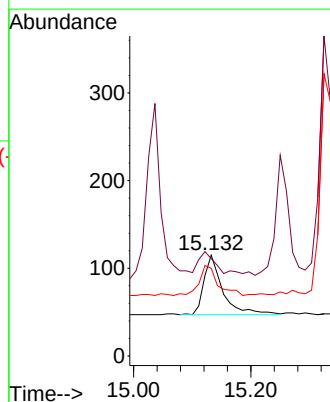
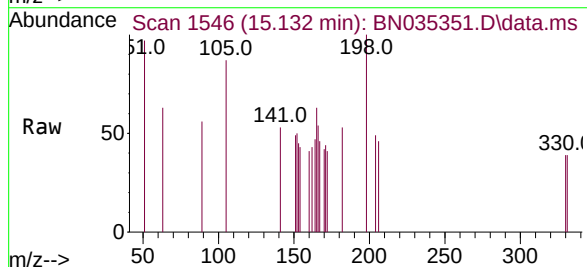
RT: 15.132 min Scan# 1546

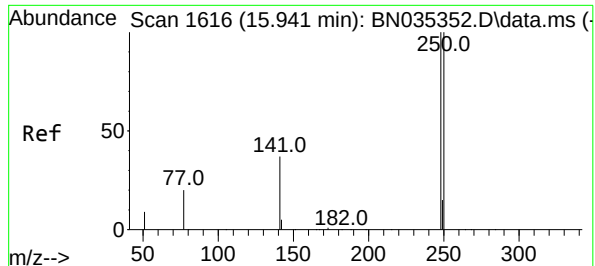
Delta R.T. -0.000 min

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

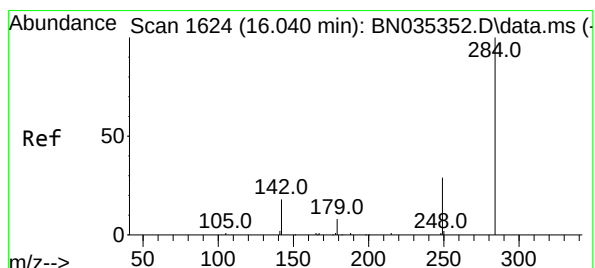
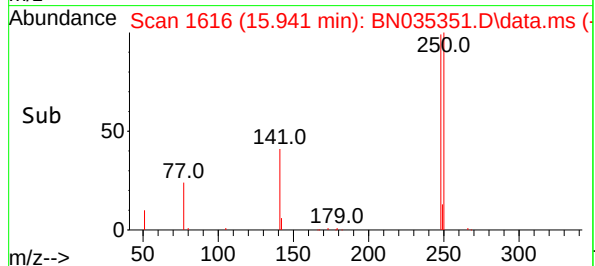
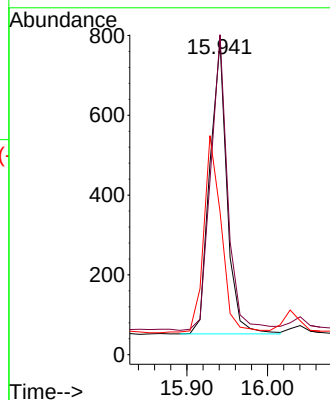
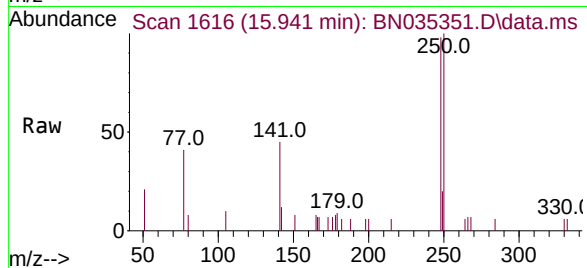
ClientSampleId :

SSTDICC0.2

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 248     | 100   |       |       |
| 250     | 102.3 | 80.6  | 120.8 |
| 141     | 45.7  | 31.5  | 47.3  |

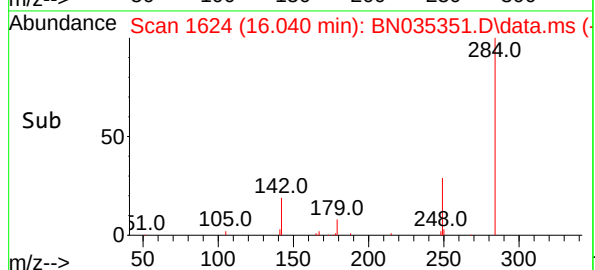
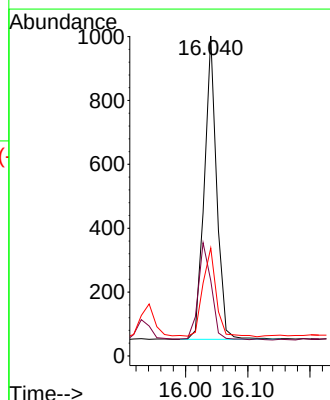
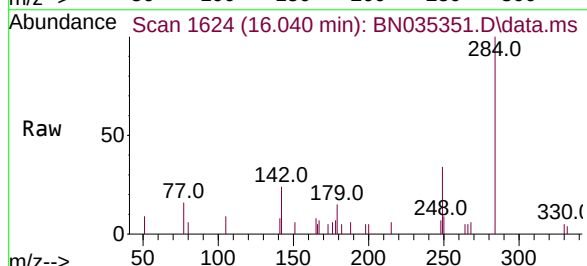
Manual Integrations  
APPROVED

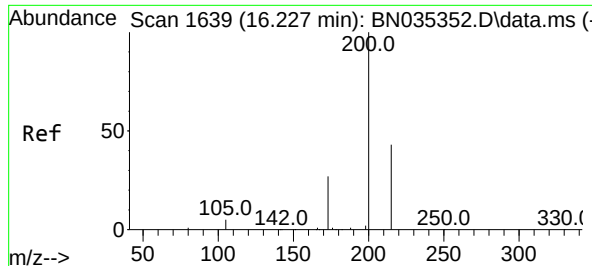
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#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

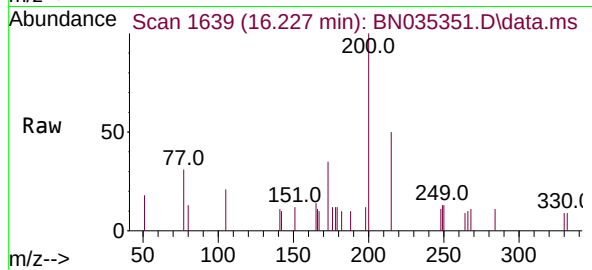
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 284     | 100   |       |       |
| 142     | 34.2  | 26.7  | 40.1  |
| 249     | 32.0  | 24.6  | 36.8  |





#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

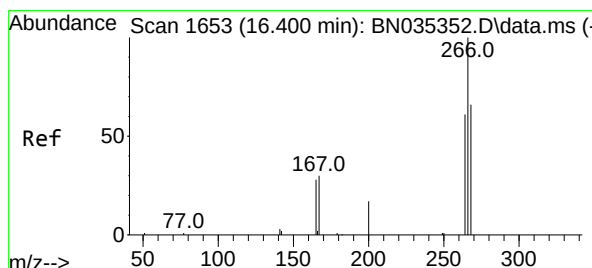
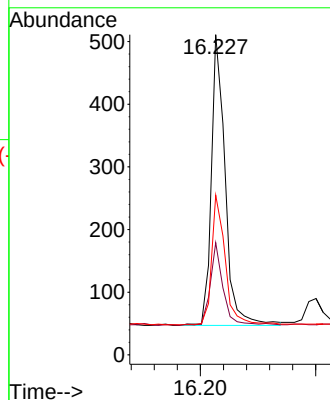
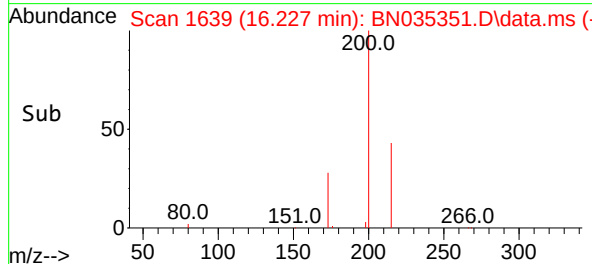
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2



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

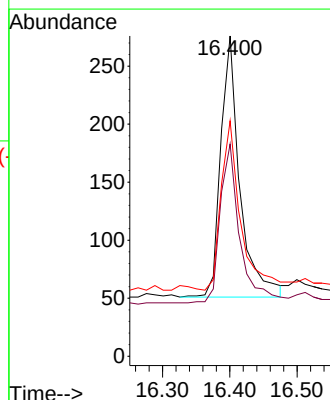
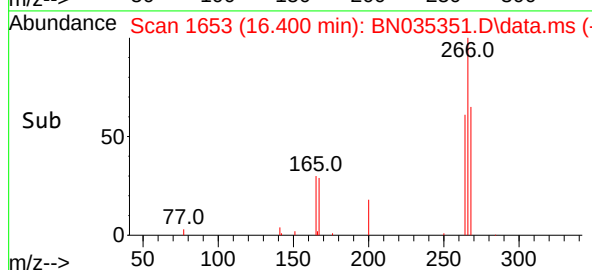
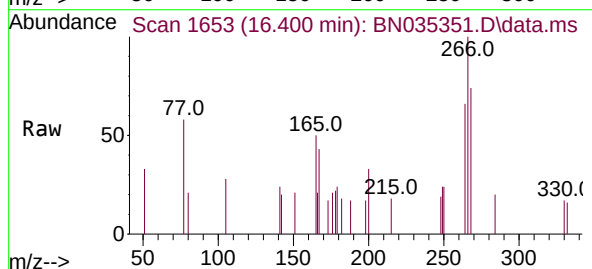
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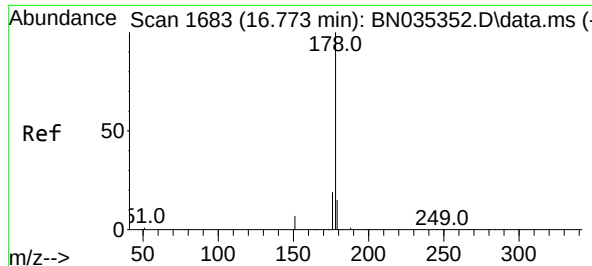
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#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#





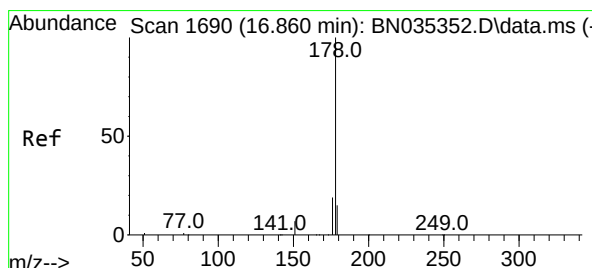
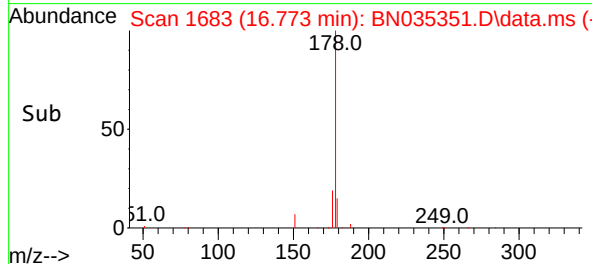
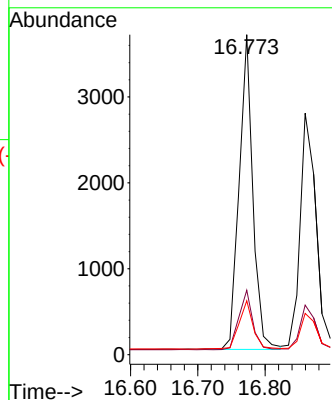
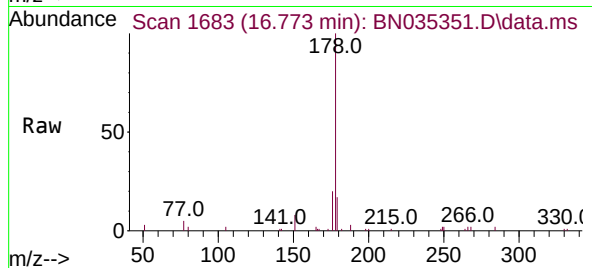
#25  
Phenanthrene  
Concen: 0.199 ng  
RT: 16.773 min Scan# 1683  
Delta R.T. -0.000 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

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

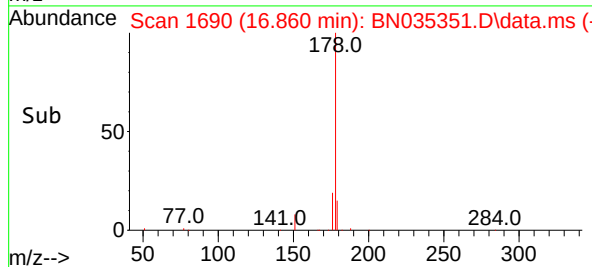
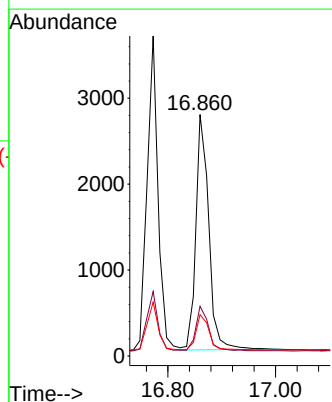
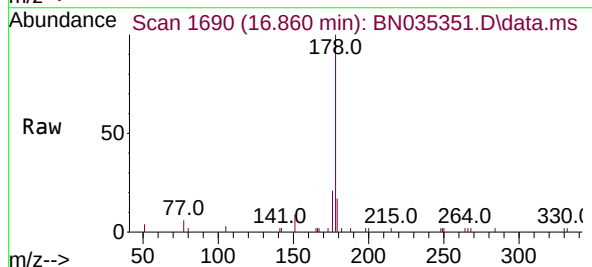
Manual Integrations  
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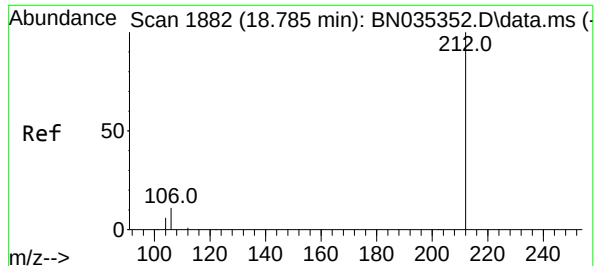
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#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 :

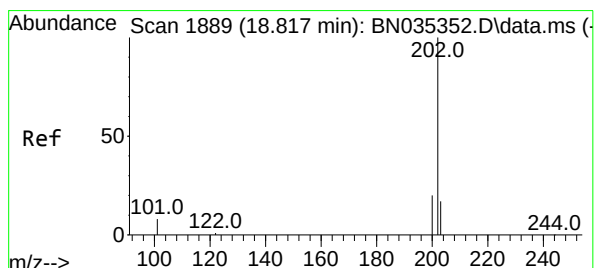
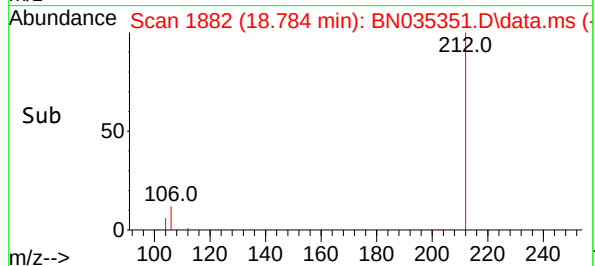
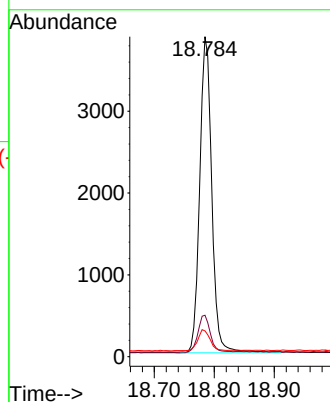
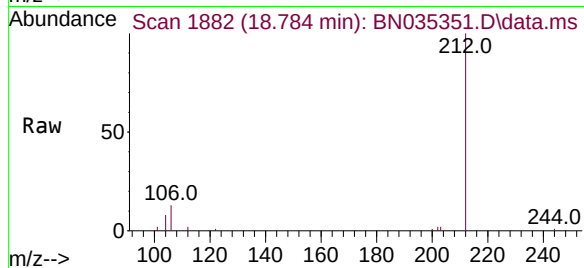
SSTDIC0.2

|           |       |       |      |
|-----------|-------|-------|------|
| 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

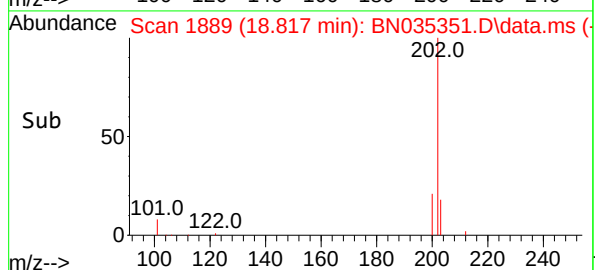
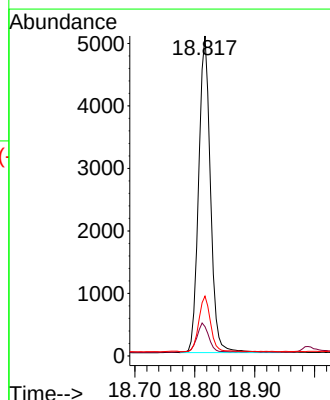
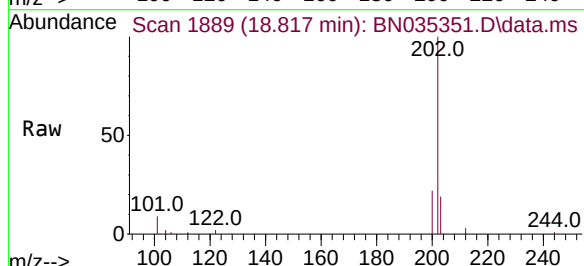
RT: 18.817 min Scan# 1889

Delta R.T. -0.000 min

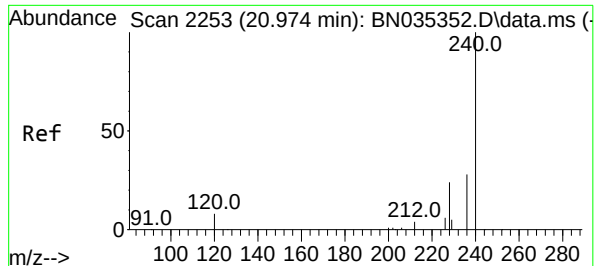
Lab File: BN035351.D

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

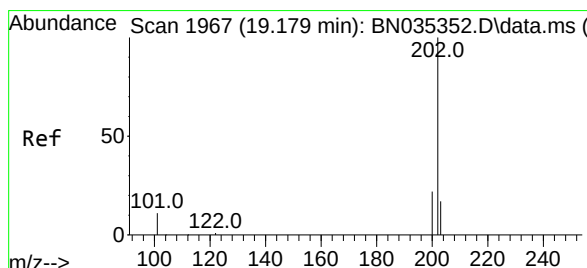
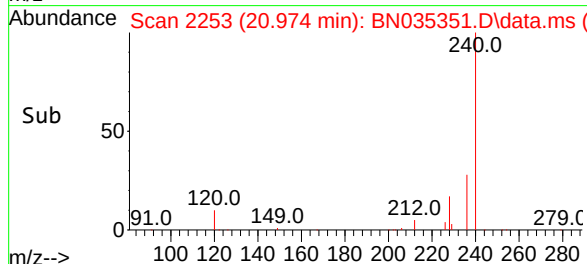
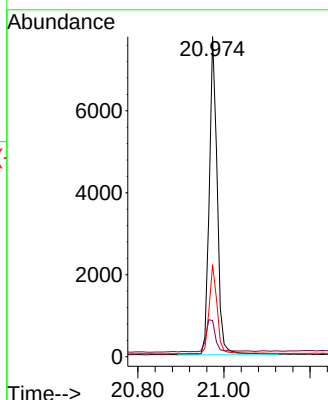
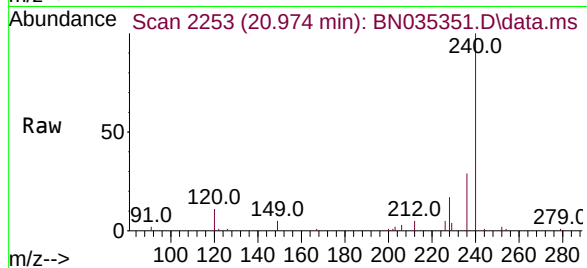
ClientSampleId :

SSTDIC0.2

|             |       |           |
|-------------|-------|-----------|
| 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

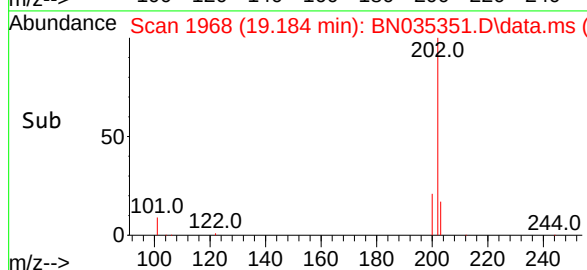
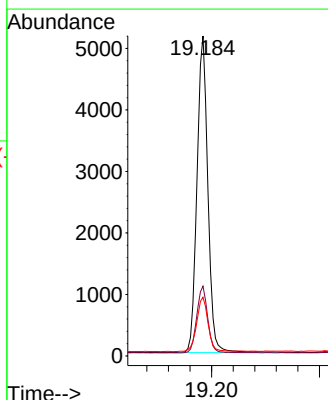
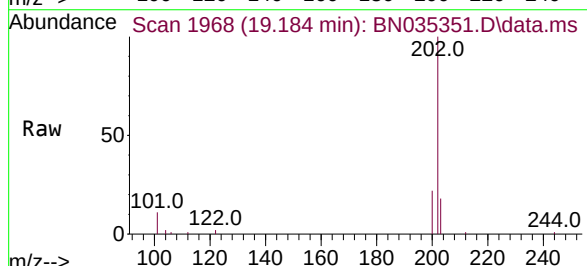
RT: 19.184 min Scan# 1968

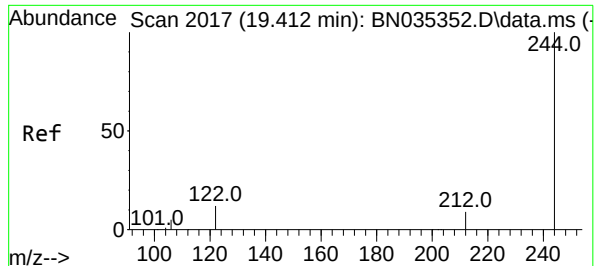
Delta R.T. 0.005 min

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

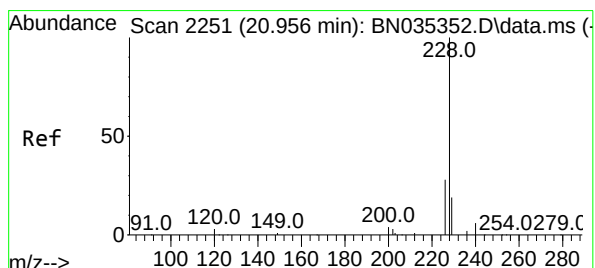
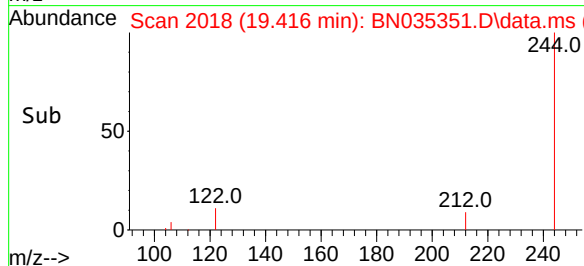
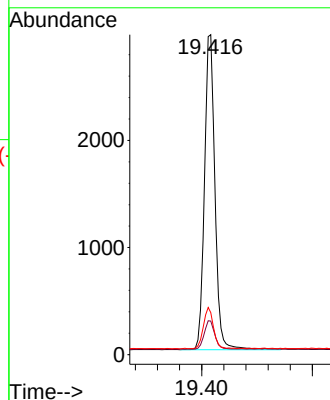
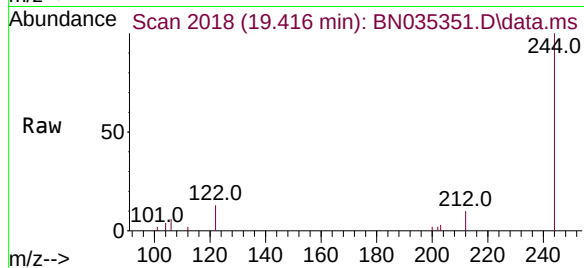
ClientSampleId :

SSTDICC0.2

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

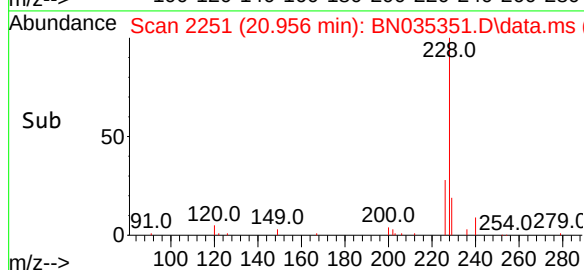
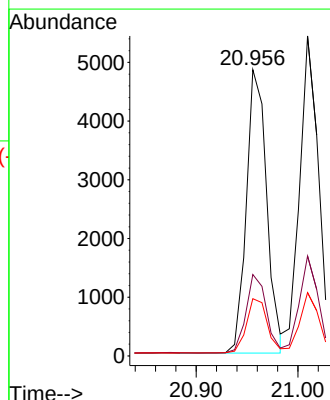
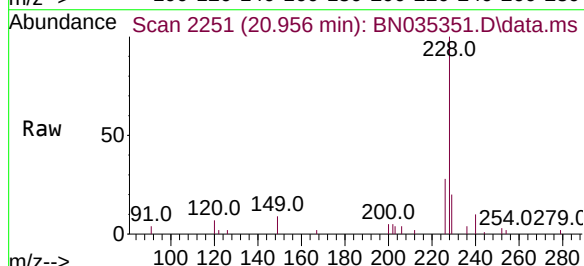
Manual Integrations  
APPROVED

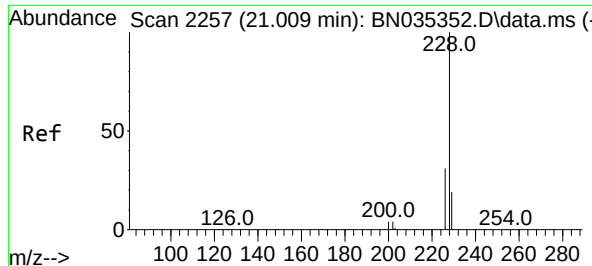
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#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  |





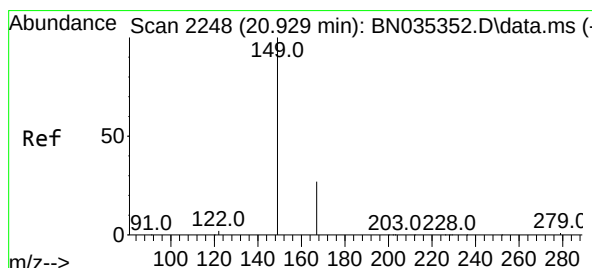
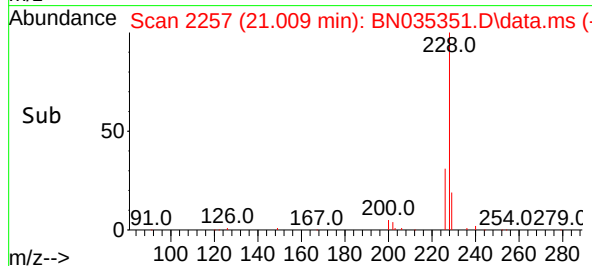
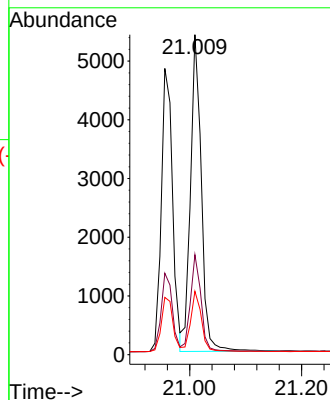
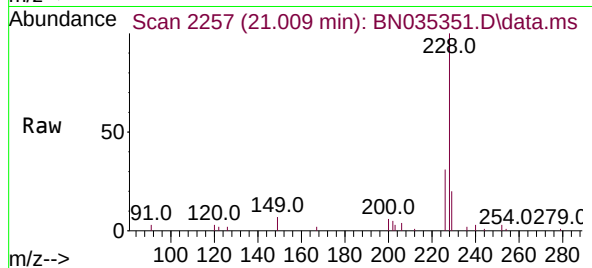
#33  
Chrysene  
Concen: 0.211 ng  
RT: 21.009 min Scan# 21009  
Delta R.T. -0.000 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

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

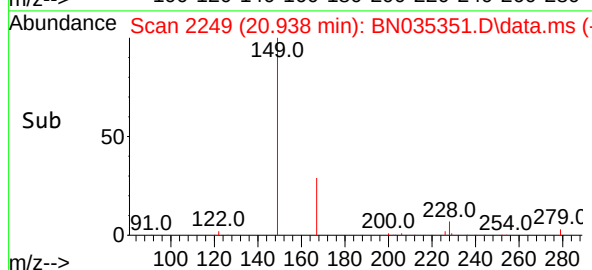
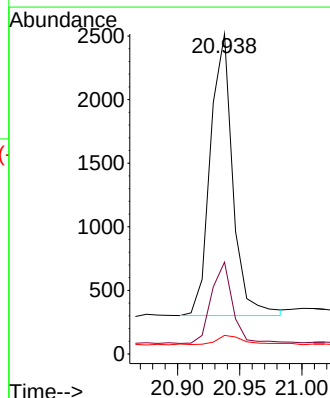
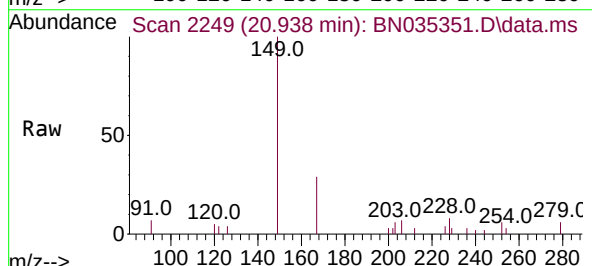
Manual Integrations  
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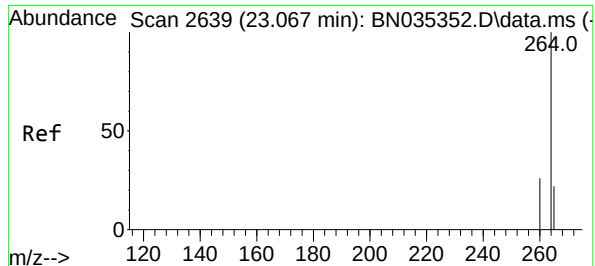
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#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#





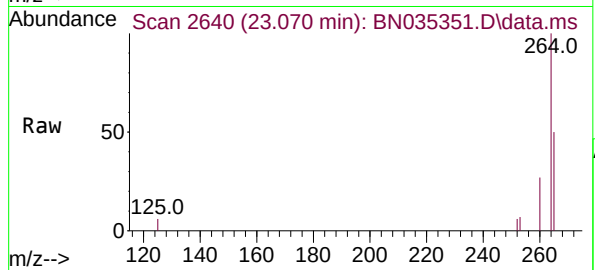
#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.070 min Scan# 2640  
Delta R.T. 0.003 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

Instrument :

BNA\_N

ClientSampleId :

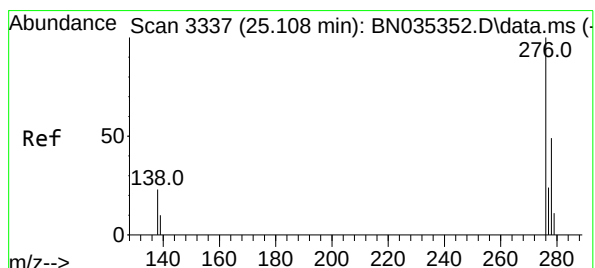
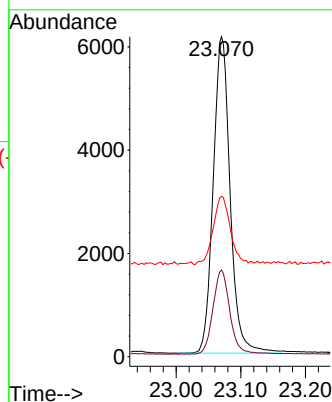
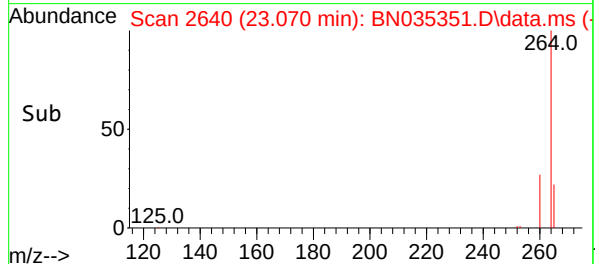
SSTDIC0.2



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

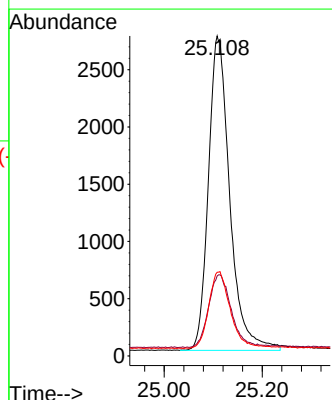
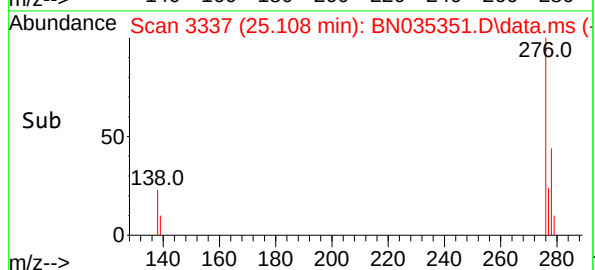
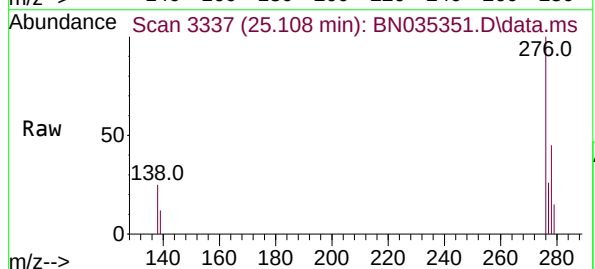
Manual Integrations  
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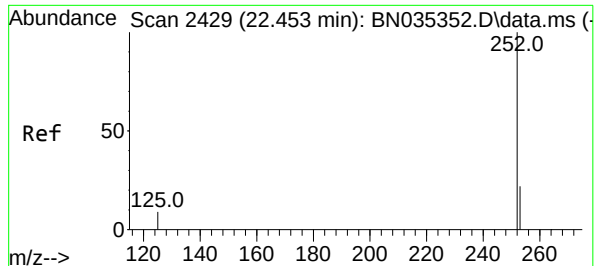
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.187 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

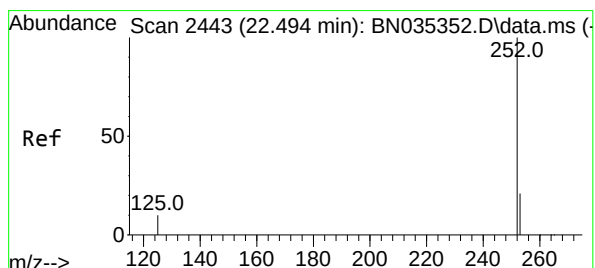
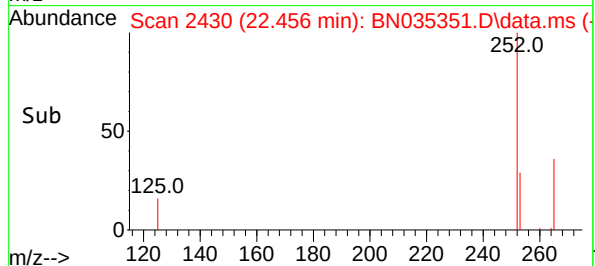
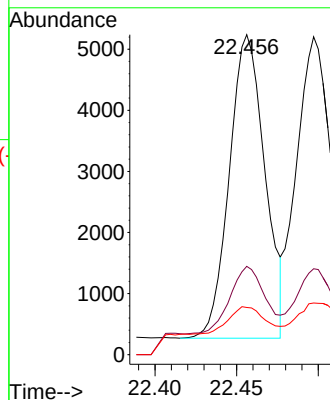
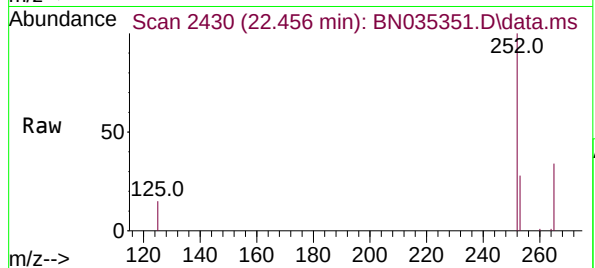
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 252   | Resp: | 752  |
| Ion Ratio | Lower | Upper |      |
| 252       | 100   |       |      |
| 253       | 27.6  | 19.6  | 29.4 |
| 125       | 14.8  | 9.6   | 14.4 |

Manual Integrations

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Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024



#38

Benzo(k)fluoranthene

Concen: 0.204 ng m

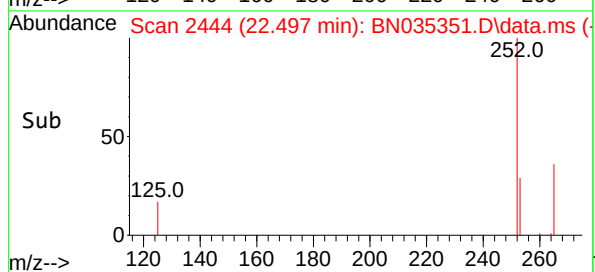
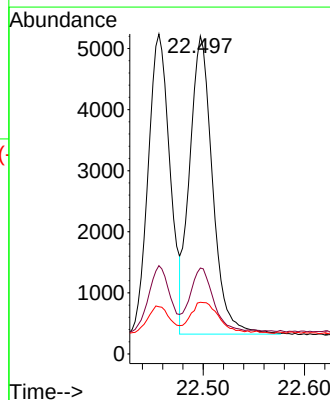
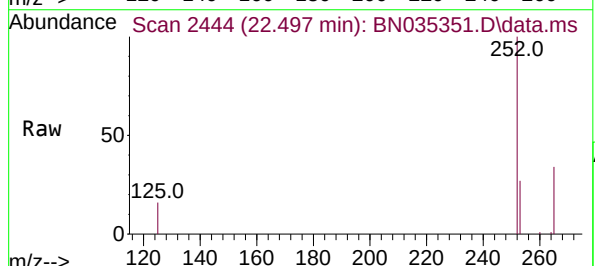
RT: 22.497 min Scan# 2444

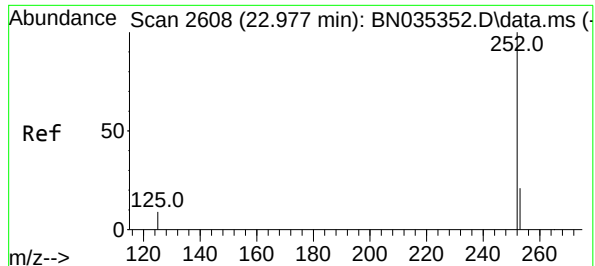
Delta R.T. 0.003 min

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

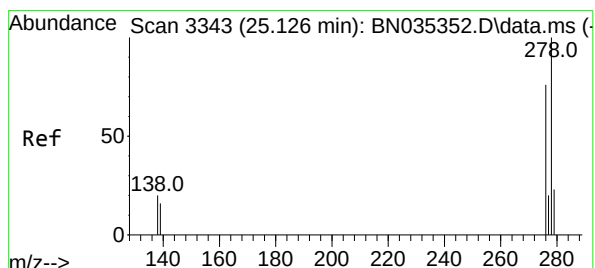
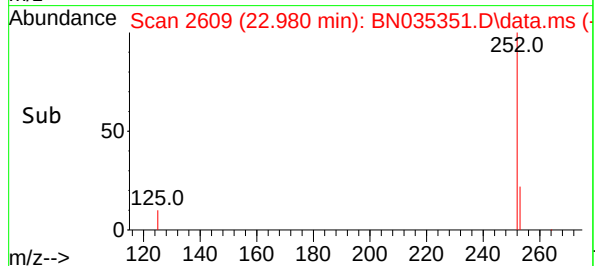
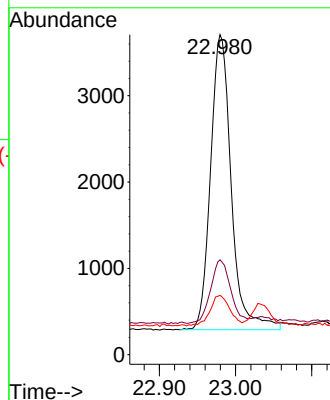
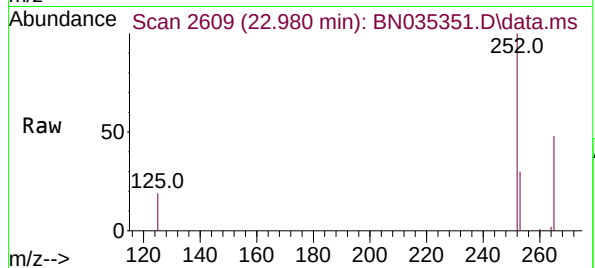
ClientSampleId :

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



#40

Dibenzo(a,h)anthracene

Concen: 0.188 ng

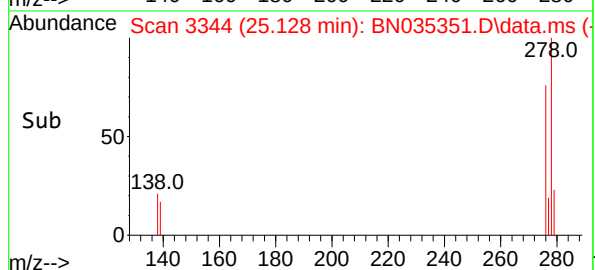
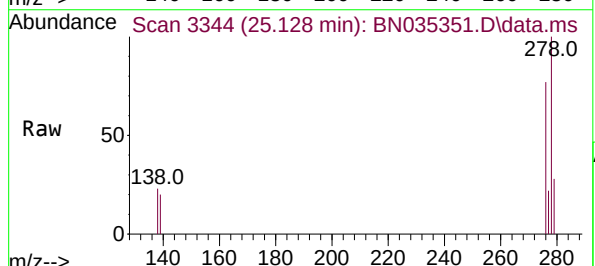
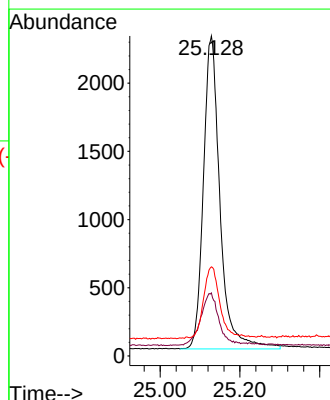
RT: 25.128 min Scan# 3344

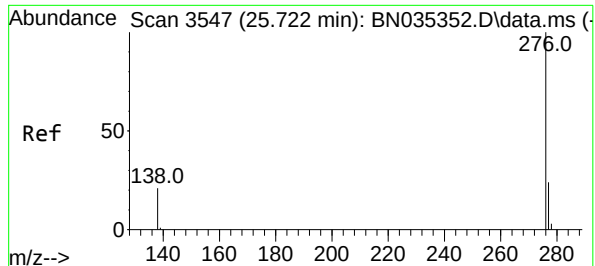
Delta R.T. 0.003 min

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

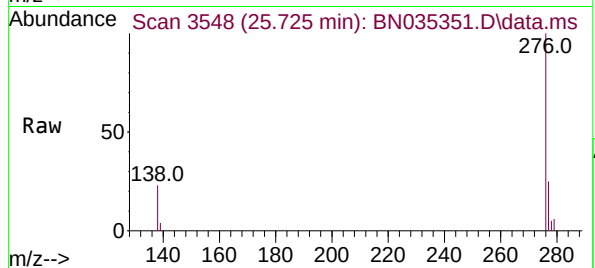
Acq: 27 Nov 2024 16:10

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2



Tgt Ion:276 Resp: 6908

Ion Ratio Lower Upper

276 100

277 25.5 19.9 29.9

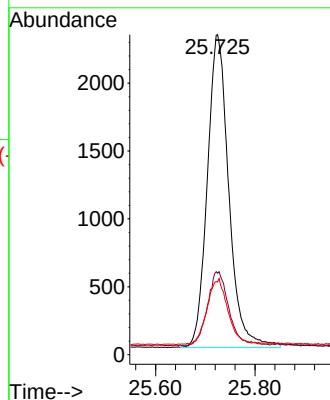
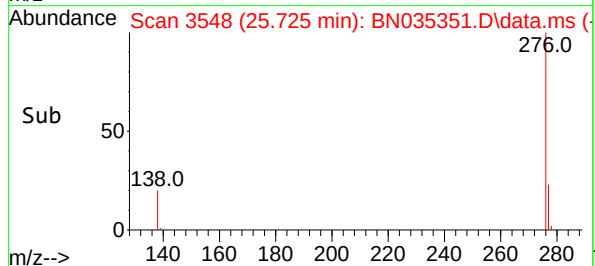
138 22.7 17.8 26.8

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

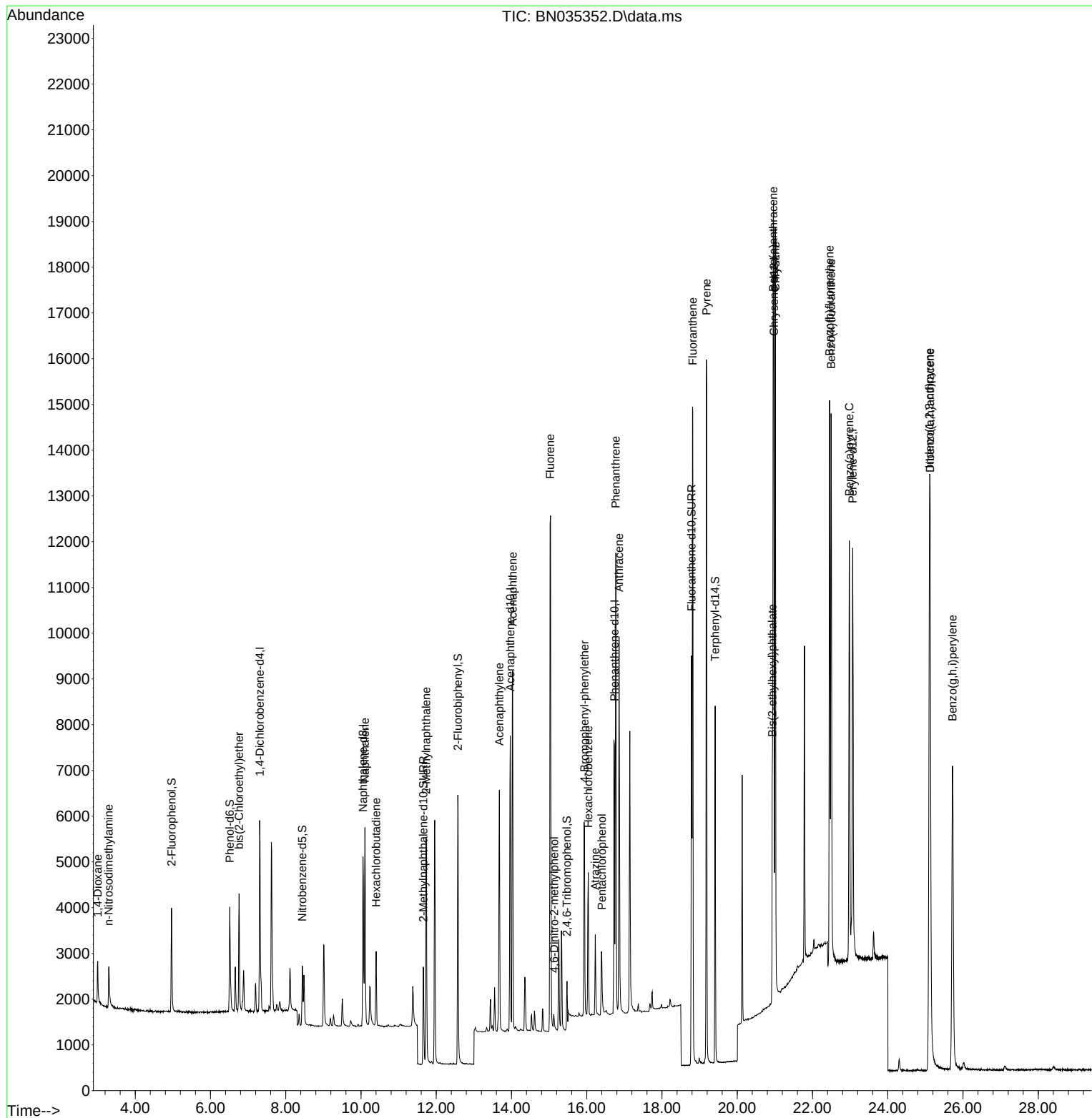
Response via : Initial Calibration

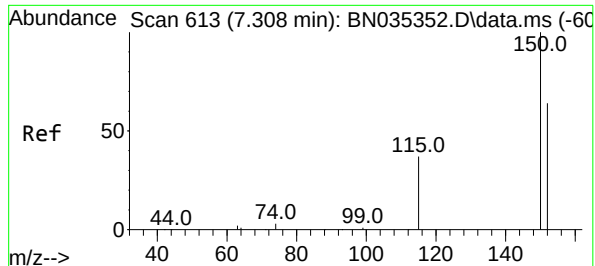
## Manual Integrations

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Reviewed By :Yogesh Patel 11/29/2024

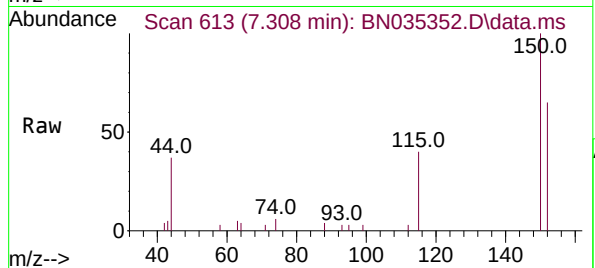
Supervised By :mohammad ahmed 12/03/2024





#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.308 min Scan# 613  
Delta R.T. -0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

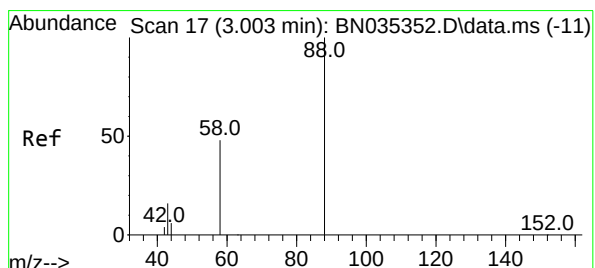
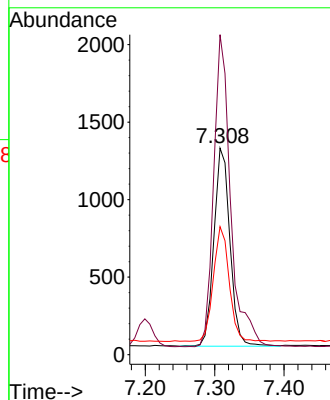
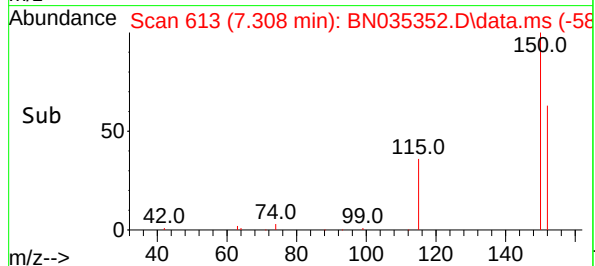
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4



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

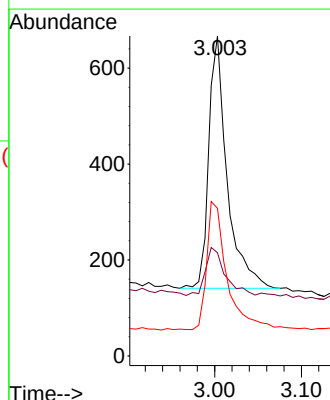
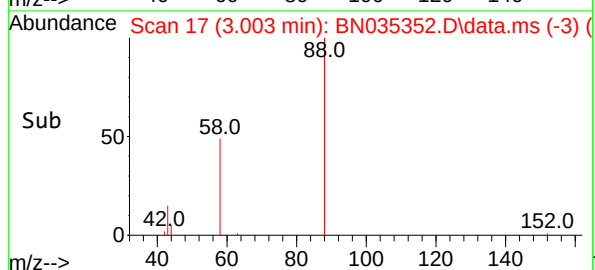
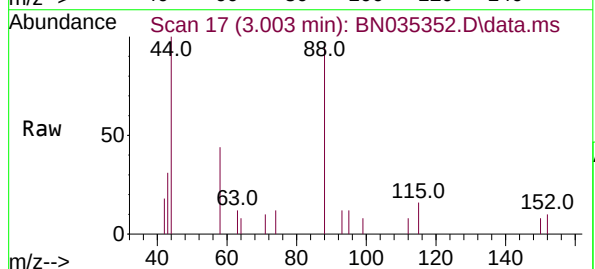
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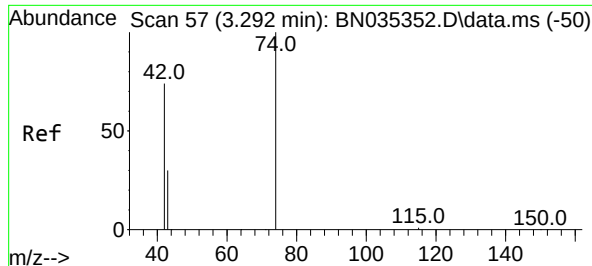
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#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





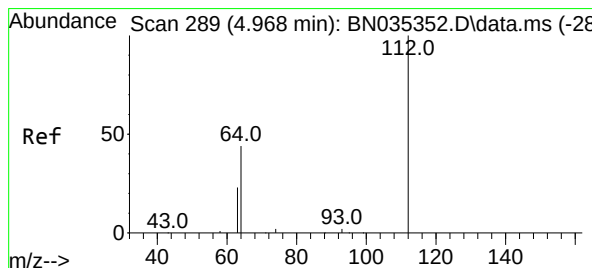
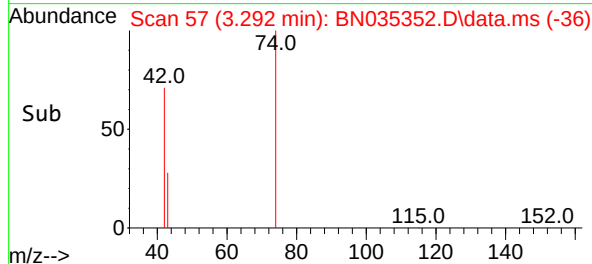
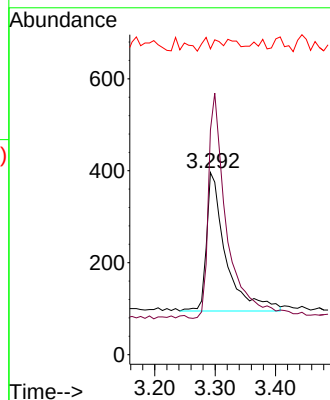
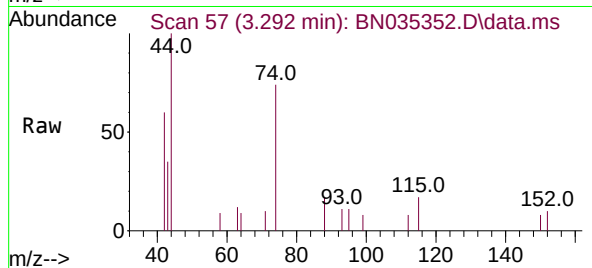
#3  
n-Nitrosodimethylamine  
Concen: 0.385 ng  
RT: 3.292 min Scan# 51  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

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

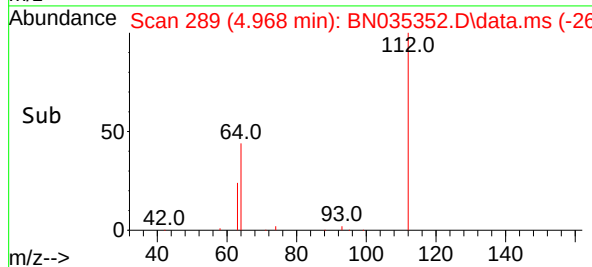
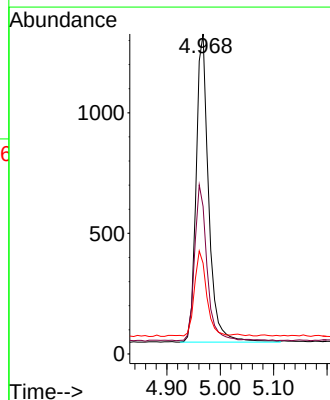
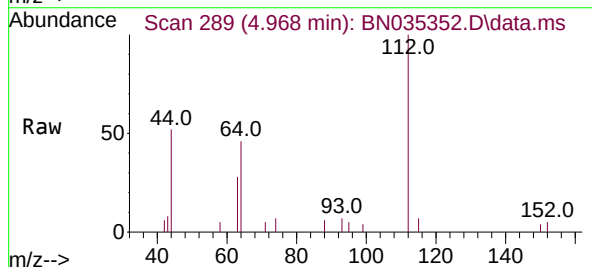
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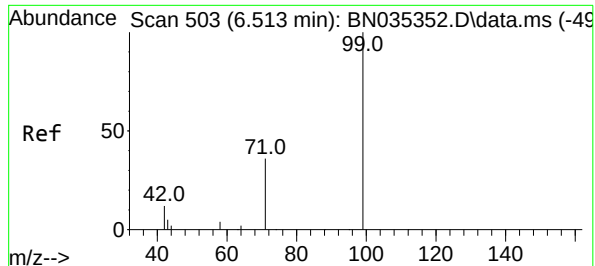
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#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





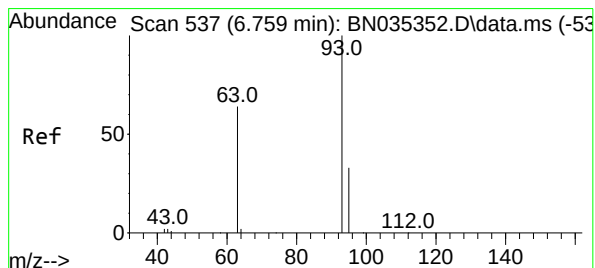
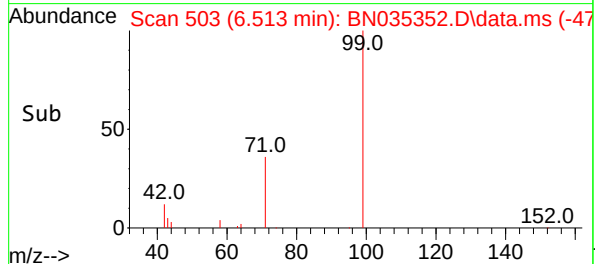
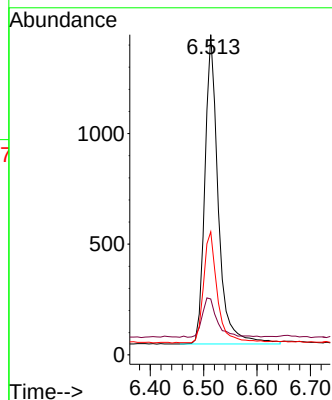
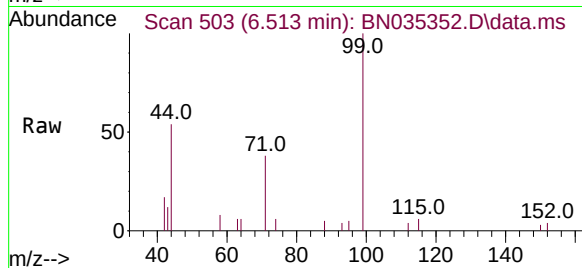
#5  
Phenol-d6  
Concen: 0.375 ng  
RT: 6.513 min Scan# 503  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

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

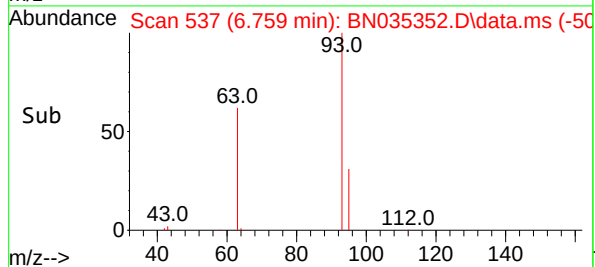
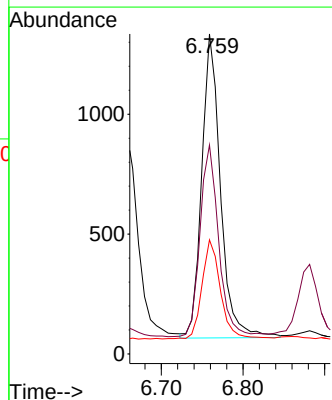
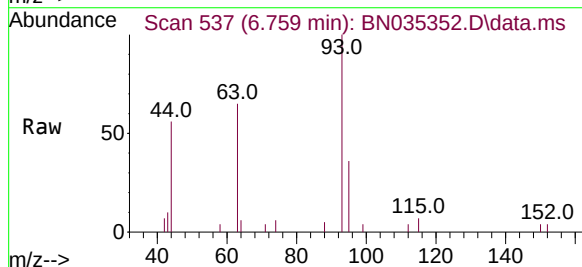
Manual Integrations  
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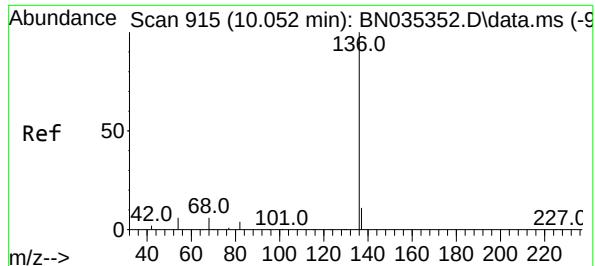
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#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





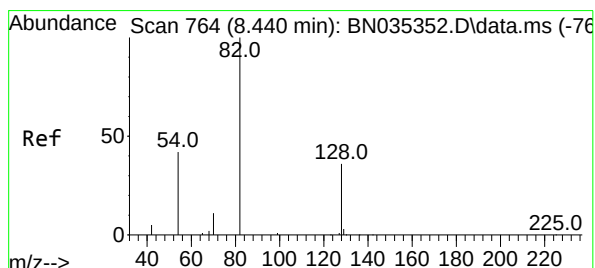
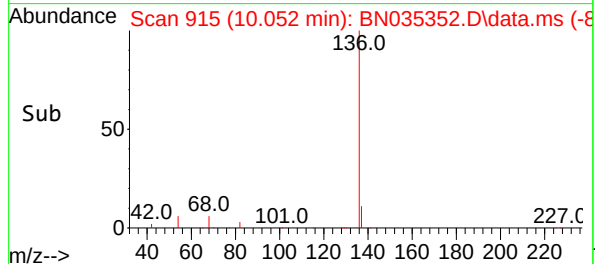
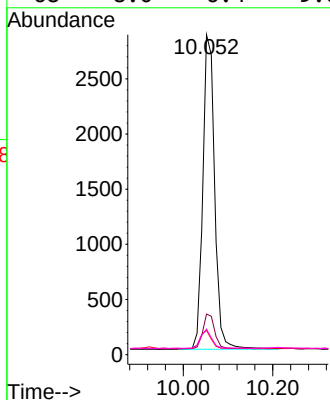
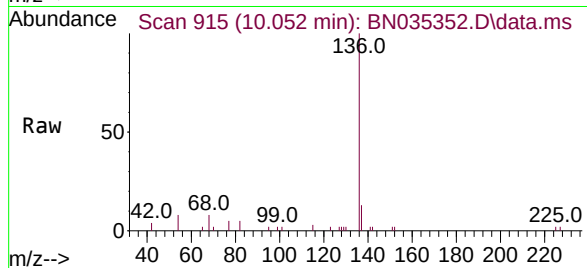
#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.052 min Scan# 915  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

| Tgt Ion | 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   |

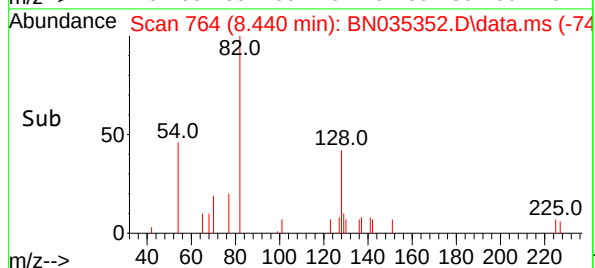
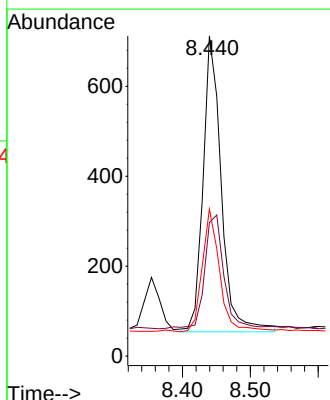
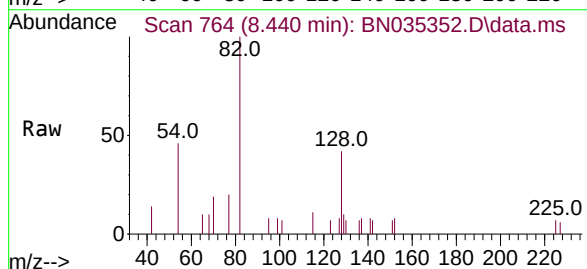
Manual Integrations  
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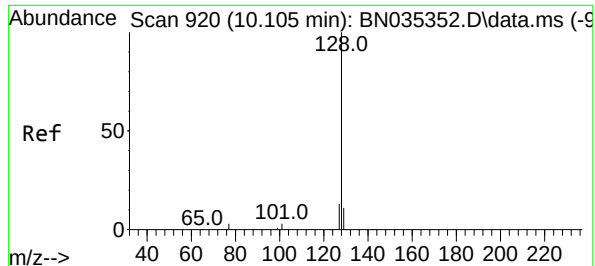
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#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 | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 41.7  | 33.4  | 50.0  |
| 54      | 45.9  | 36.7  | 55.1  |





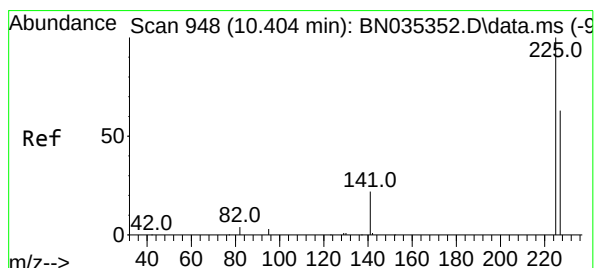
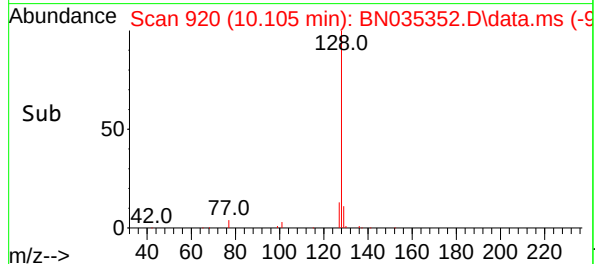
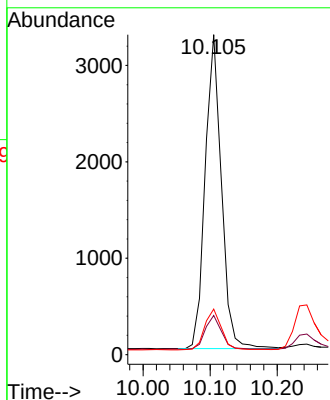
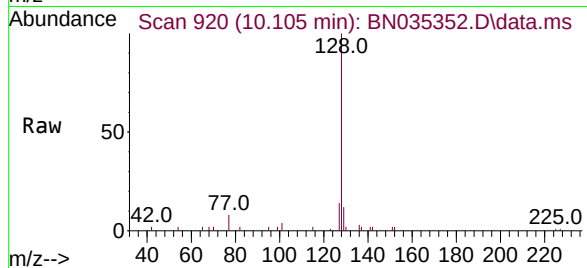
#9  
Naphthalene  
Concen: 0.401 ng  
RT: 10.105 min Scan# 912  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

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

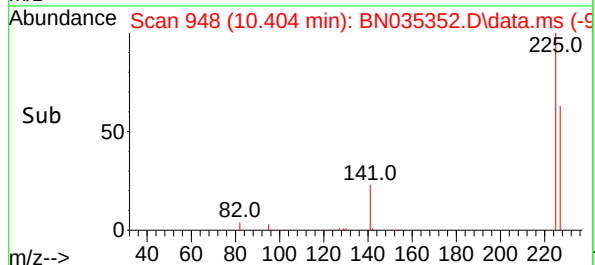
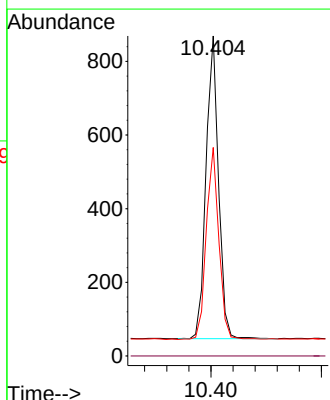
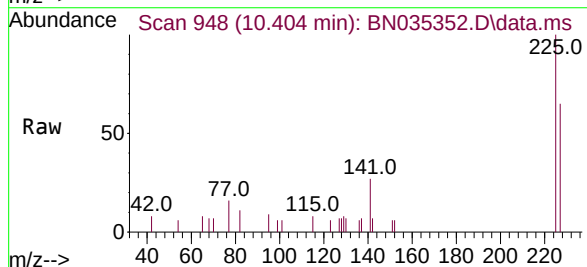
Manual Integrations  
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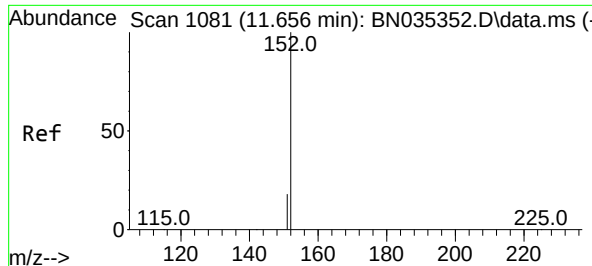
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#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





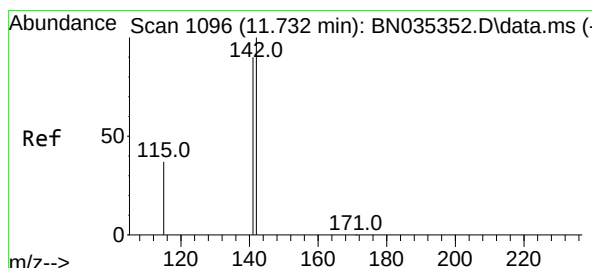
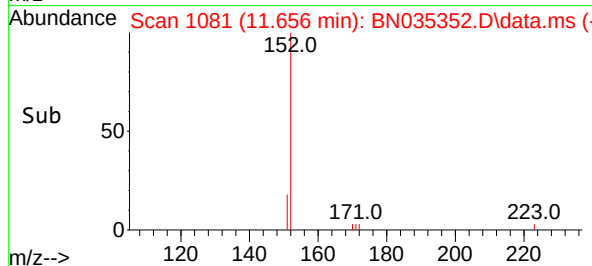
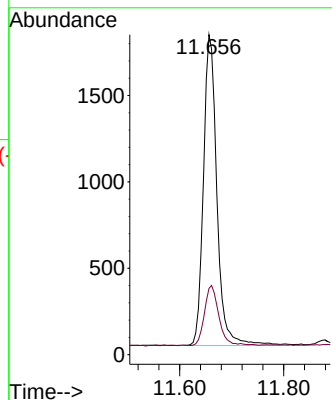
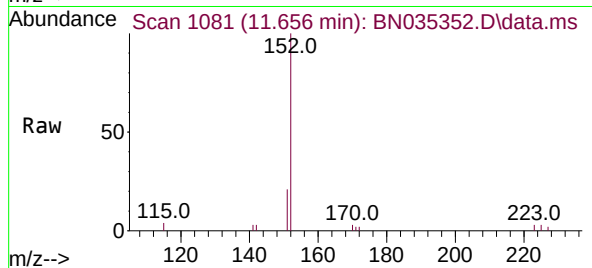
#11  
2-Methylnaphthalene-d10  
Concen: 0.347 ng  
RT: 11.656 min Scan# 1081  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

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

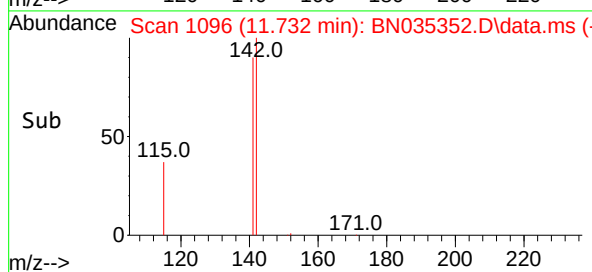
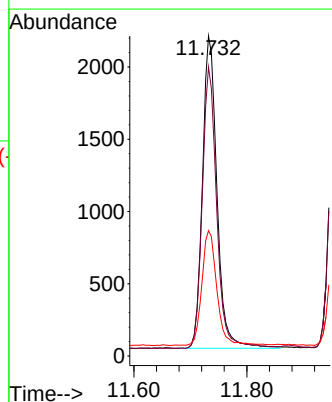
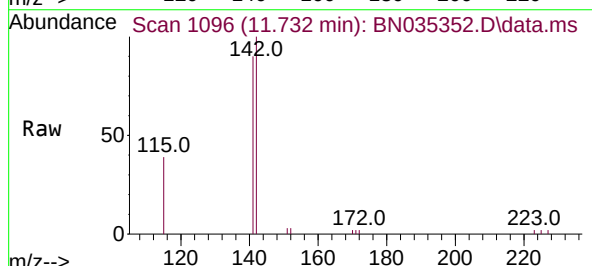
Manual Integrations  
APPROVED

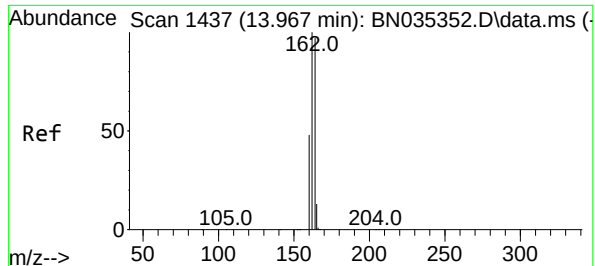
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#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

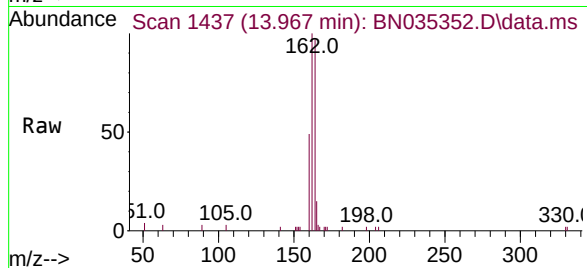
Tgt Ion:142 Resp: 3867  
Ion Ratio Lower Upper  
142 100  
141 90.3 72.2 108.4  
115 39.2 31.4 47.0





#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

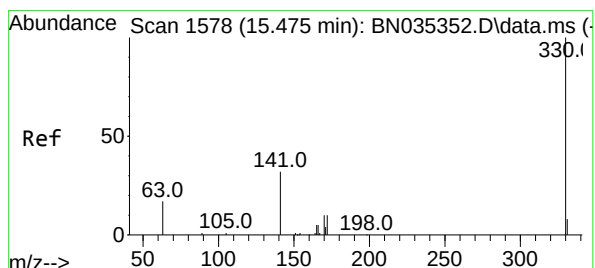
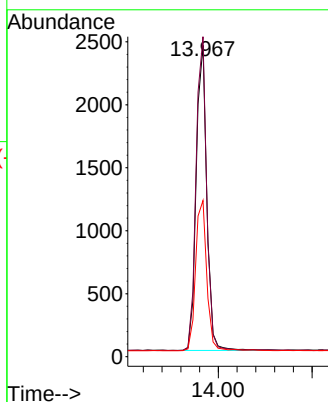
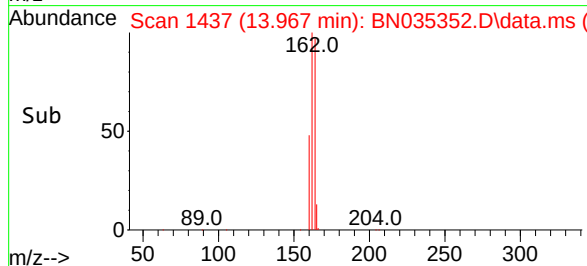
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4



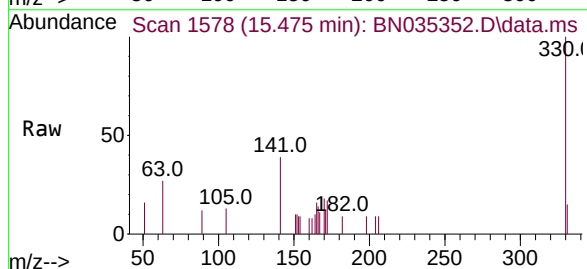
Tgt Ion:164 Resp: 3799  
Ion Ratio Lower Upper  
164 100  
162 102.7 82.2 123.2  
160 50.1 40.1 60.1

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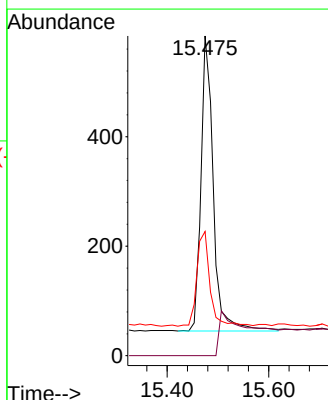
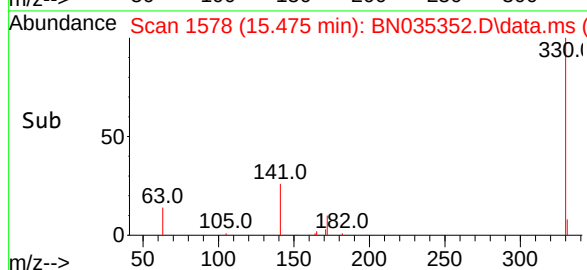
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



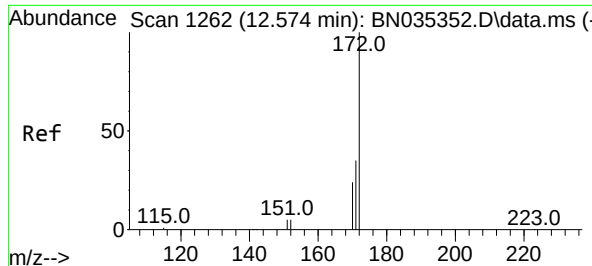
#14  
2,4,6-Tribromophenol  
Concen: 0.356 ng  
RT: 15.475 min Scan# 1578  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46



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# 11

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

Instrument :

BNA\_N

ClientSampleId :

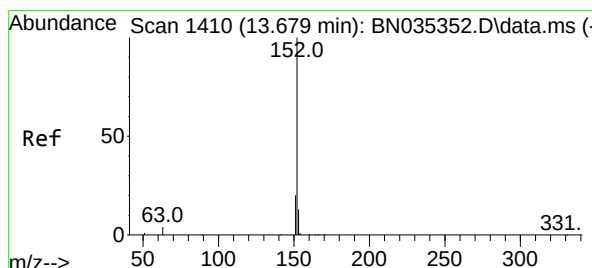
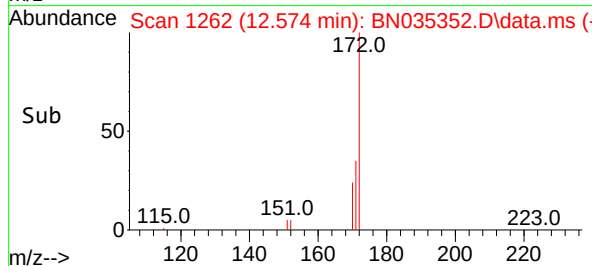
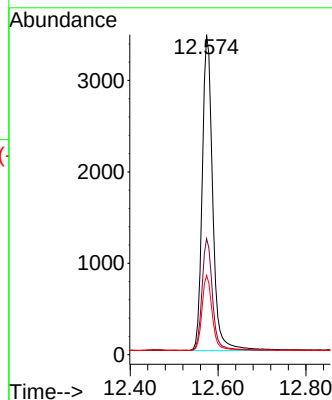
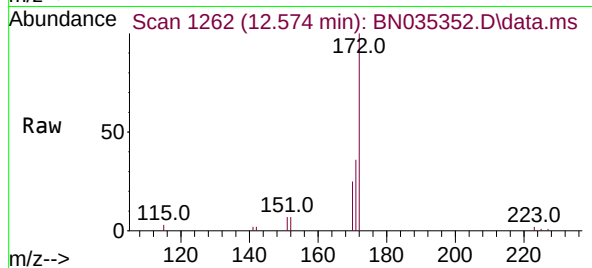
SSTDICCC0.4

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 172   | Resp: | 573  |
| Ion Ratio | Lower | Upper |      |
| 172       | 100   |       |      |
| 171       | 36.2  | 29.0  | 43.4 |
| 170       | 24.8  | 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: 0.373 ng

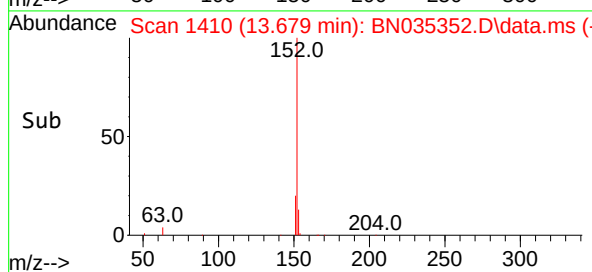
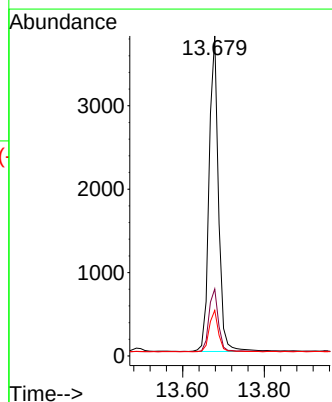
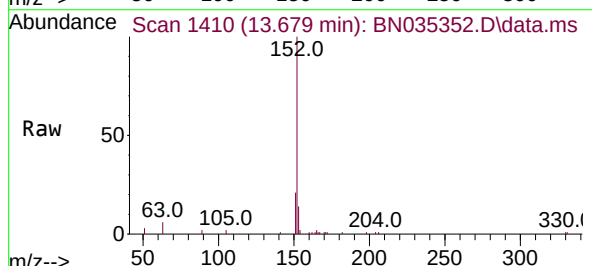
RT: 13.679 min Scan# 1410

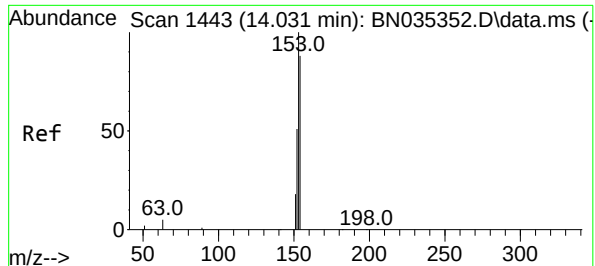
Delta R.T. 0.000 min

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 |





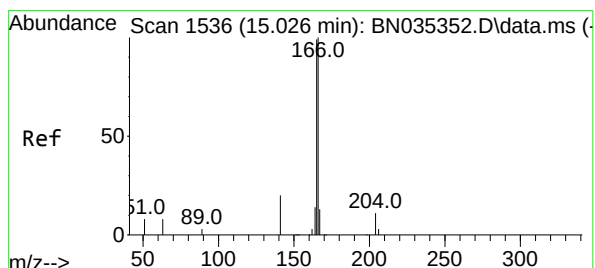
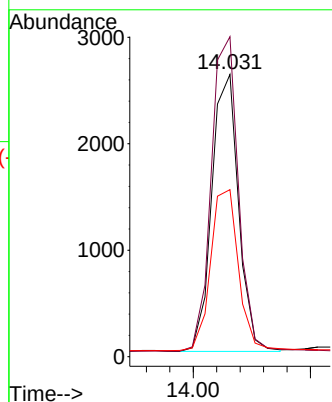
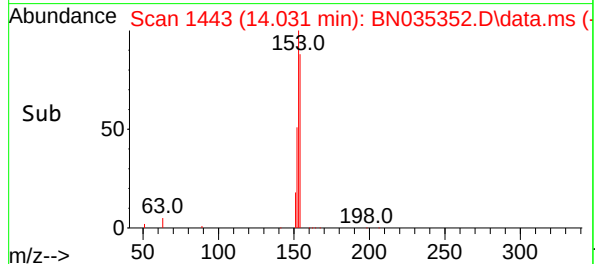
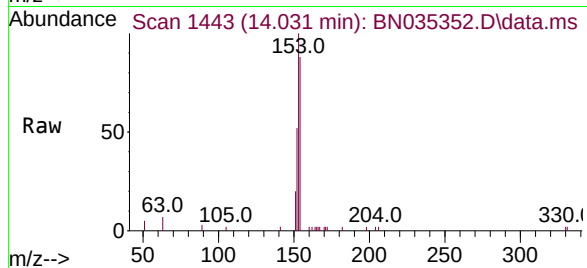
#17  
Acenaphthene  
Concen: 0.388 ng  
RT: 14.031 min Scan# 1443  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

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

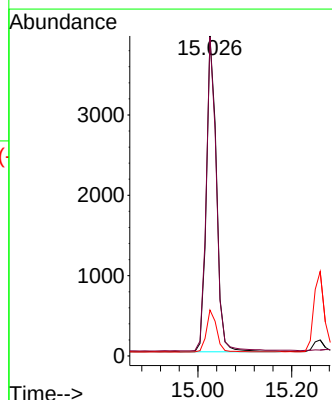
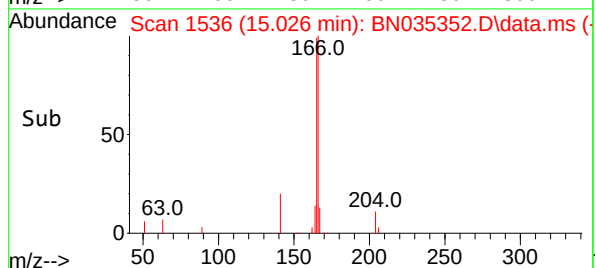
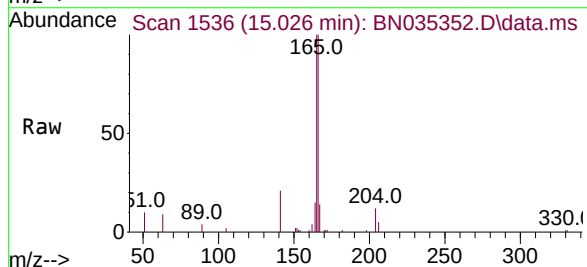
Manual Integrations  
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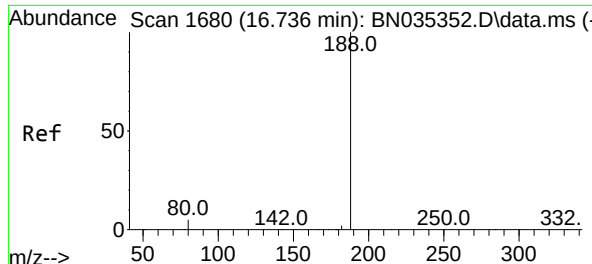
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#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 :

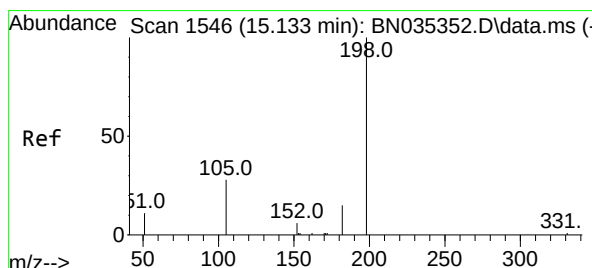
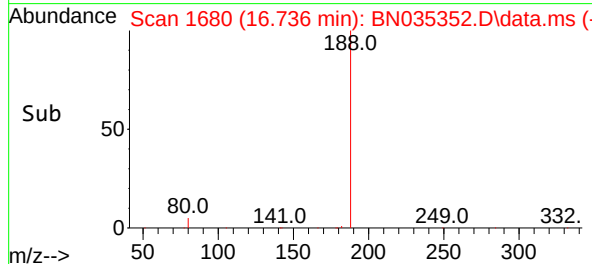
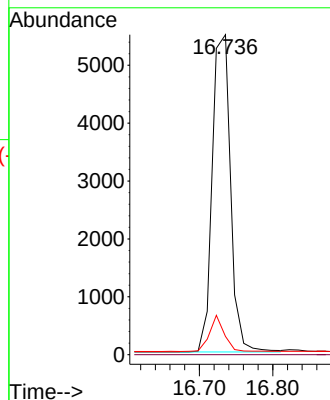
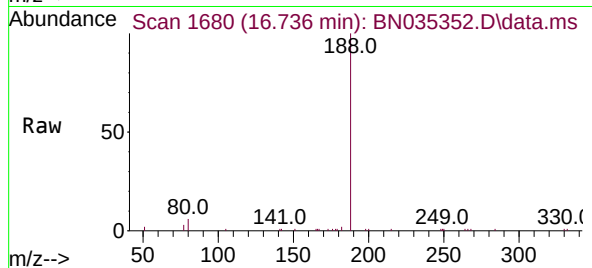
SSTDICCC0.4

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 0.0   | 0.0   | 0.0   |
| 80      | 5.7   | 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: 0.171 ng

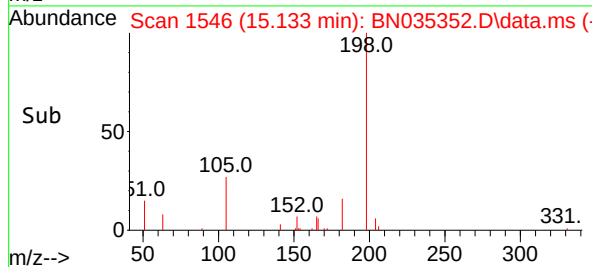
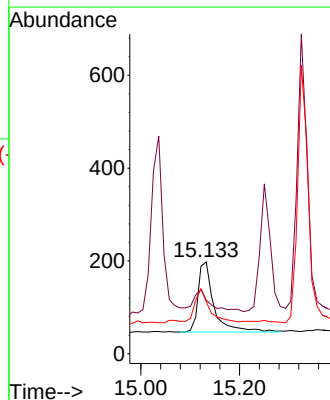
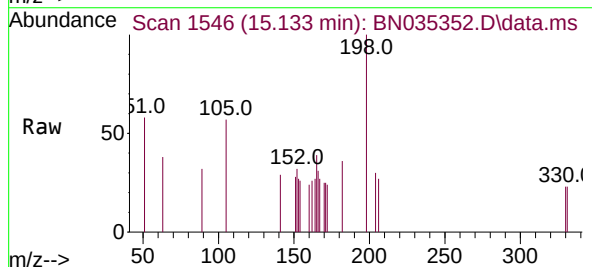
RT: 15.133 min Scan# 1546

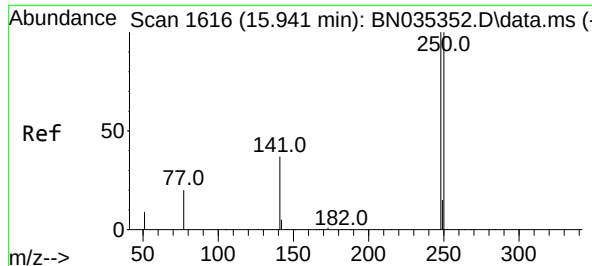
Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 198     | 100   |       |       |
| 51      | 58.1  | 46.5  | 69.7  |
| 105     | 56.6  | 45.3  | 67.9  |





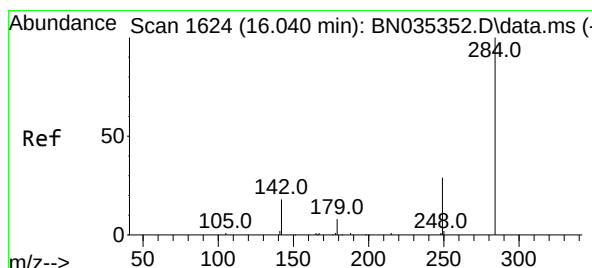
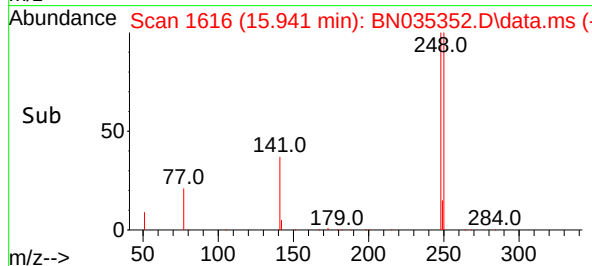
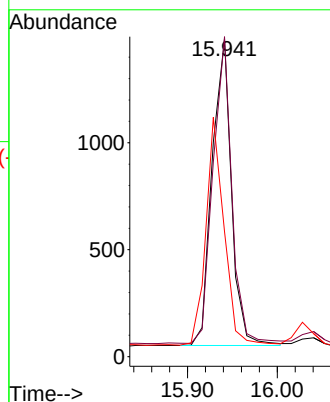
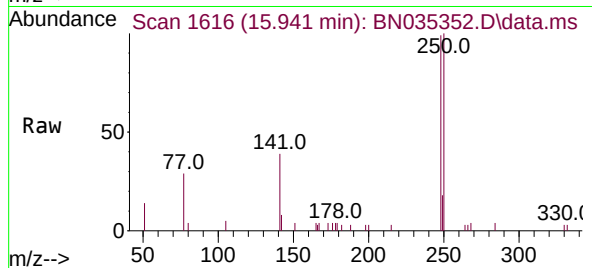
#21  
4-Bromophenyl-phenylether  
Concen: 0.355 ng  
RT: 15.941 min Scan# 1616  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

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

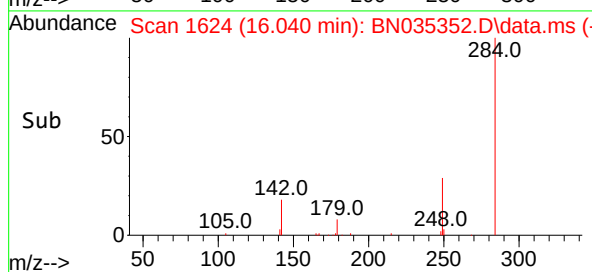
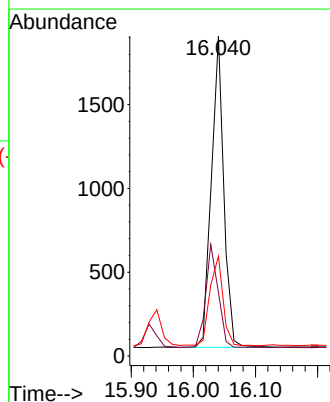
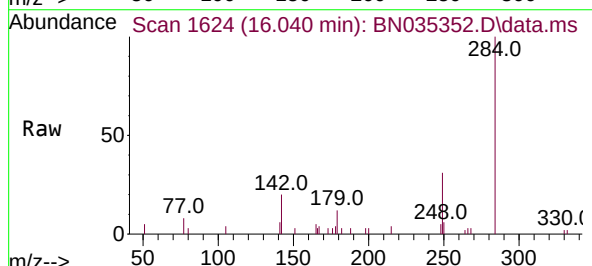
Manual Integrations  
APPROVED

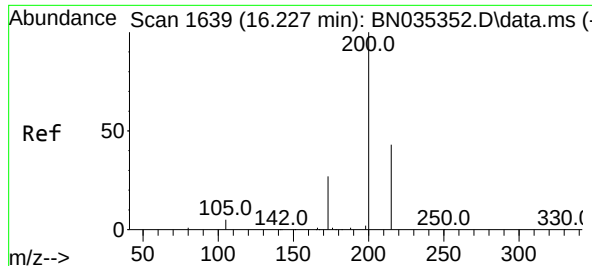
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#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





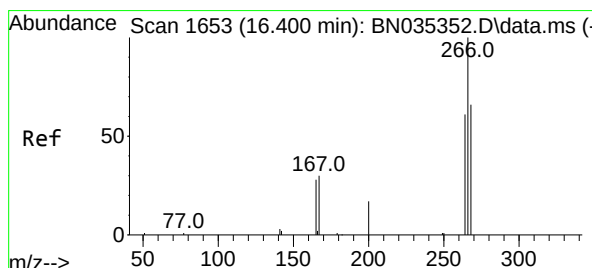
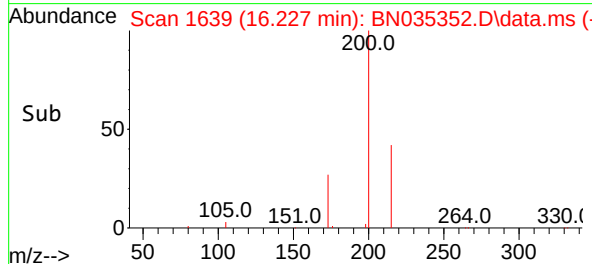
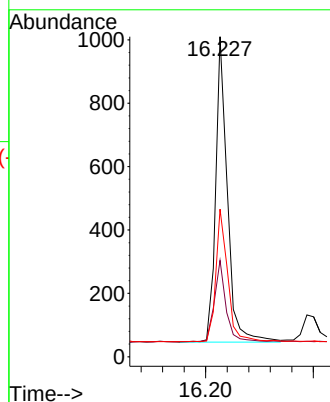
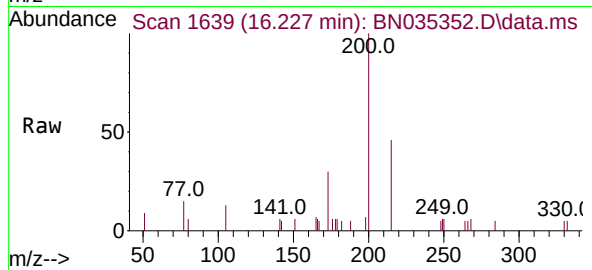
#23  
Atrazine  
Concen: 0.269 ng  
RT: 16.227 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 200     | 100   |       |       |
| 173     | 30.1  | 24.1  | 36.1  |
| 215     | 46.1  | 36.9  | 55.3  |

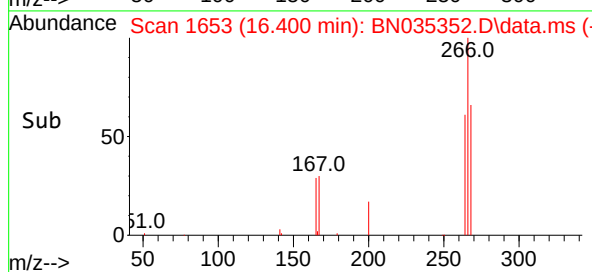
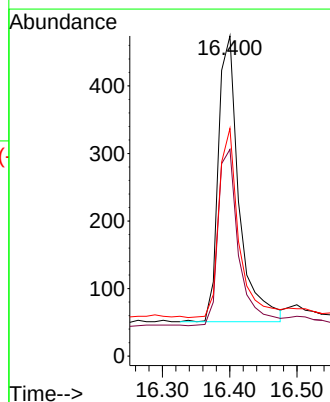
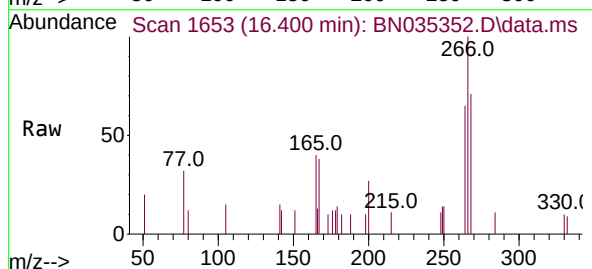
Manual Integrations  
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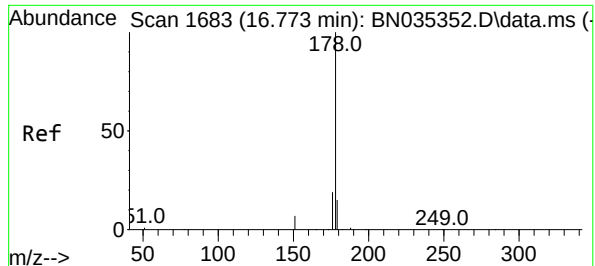
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#24  
Pentachlorophenol  
Concen: 0.309 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 | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 266     | 100   |       |       |
| 264     | 62.4  | 42.3  | 63.5  |
| 268     | 63.8  | 43.3  | 64.9  |





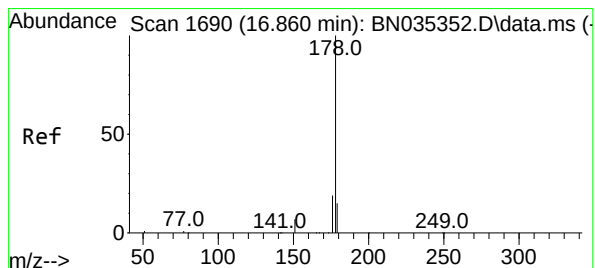
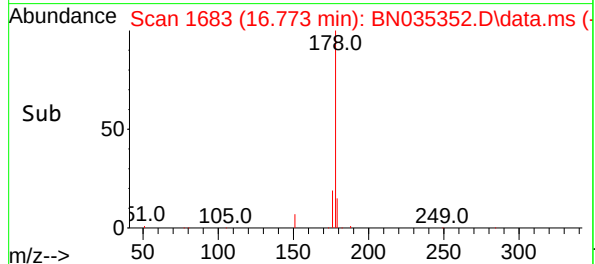
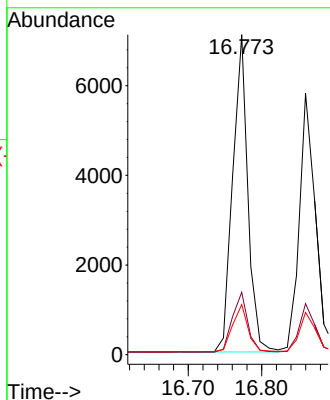
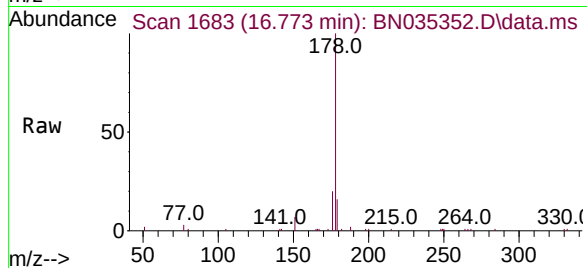
#25  
Phenanthrene  
Concen: 0.405 ng  
RT: 16.773 min Scan# 1683  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

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

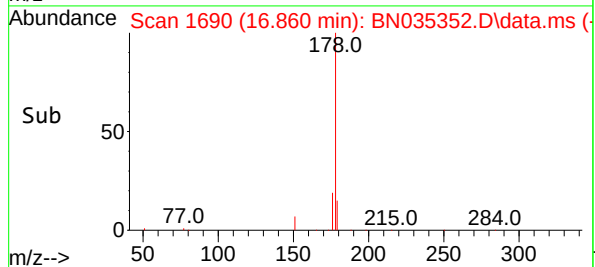
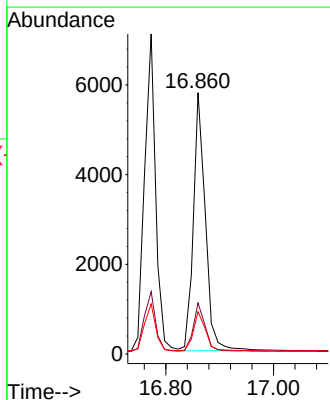
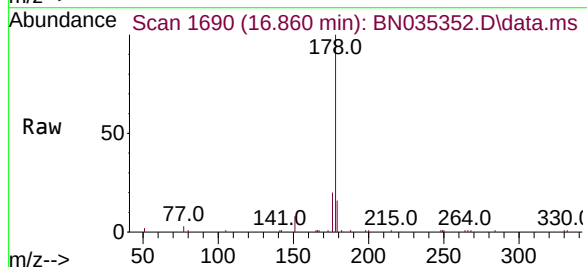
Manual Integrations  
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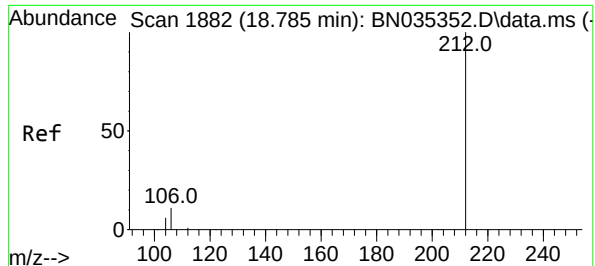
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#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





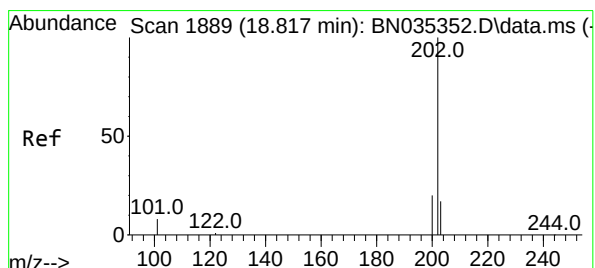
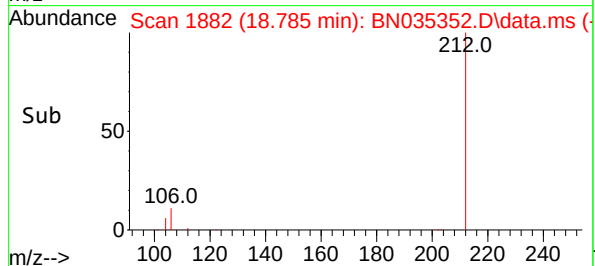
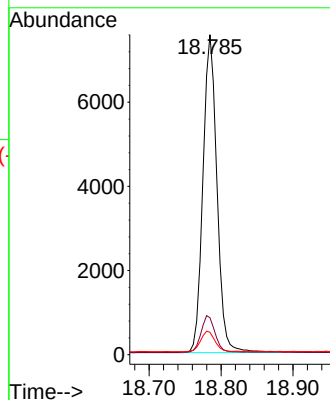
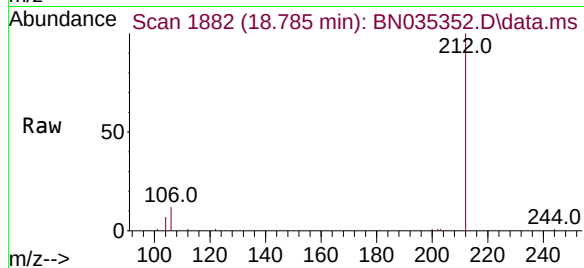
#27  
Fluoranthene-d10  
Concen: 0.352 ng  
RT: 18.785 min Scan# 1882  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

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

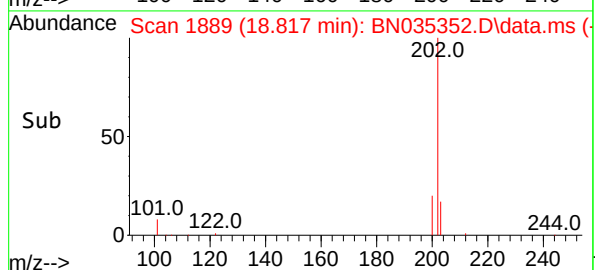
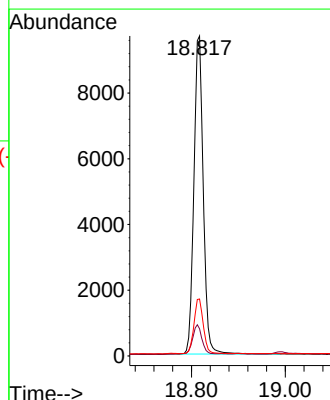
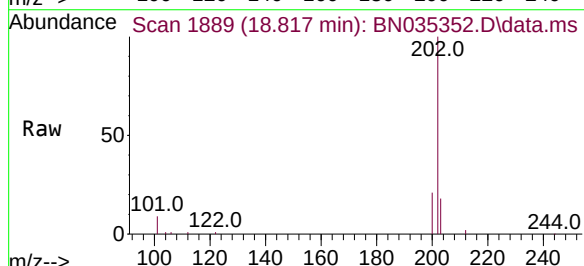
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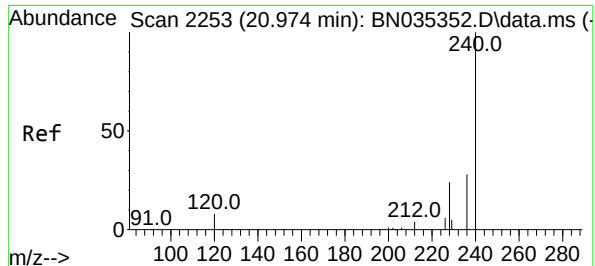
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#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

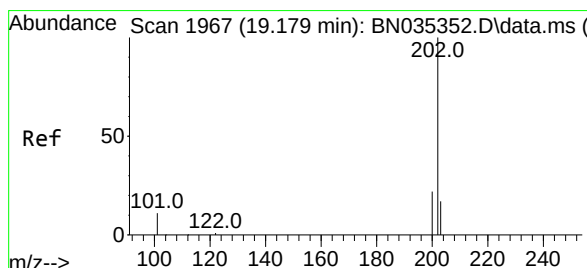
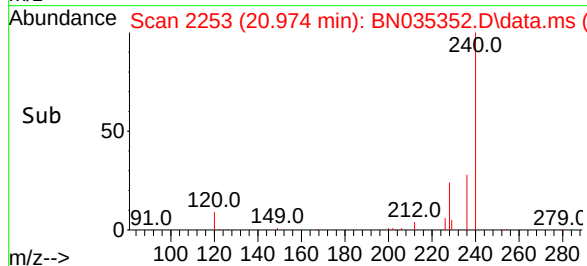
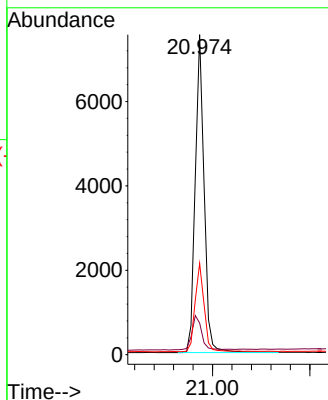
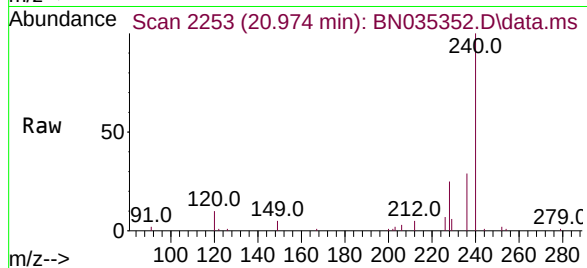
ClientSampleId :

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  
APPROVED

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



#30

Pyrene

Concen: 0.443 ng

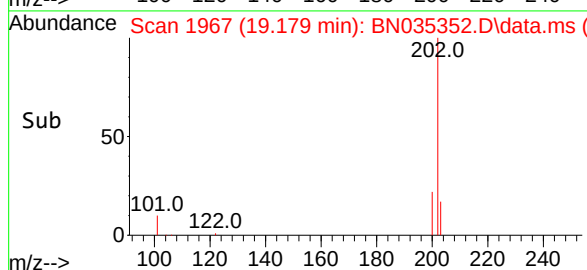
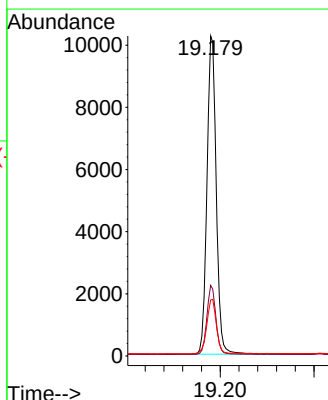
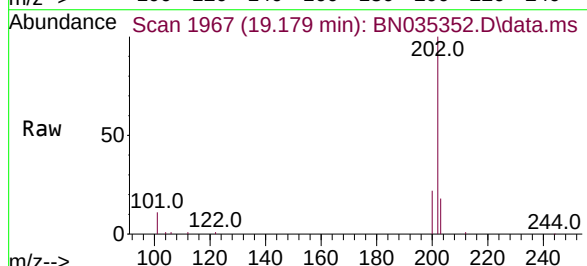
RT: 19.179 min Scan# 1967

Delta R.T. 0.000 min

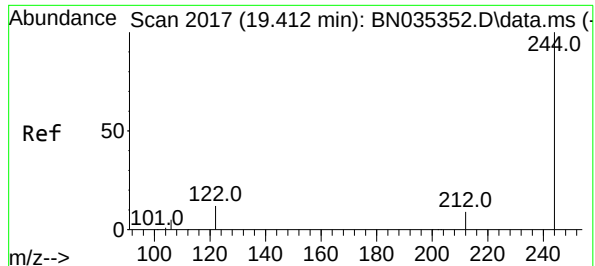
Lab File: BN035352.D

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

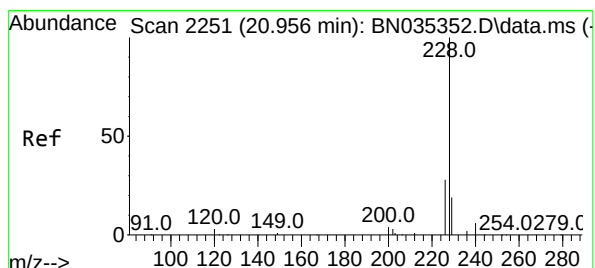
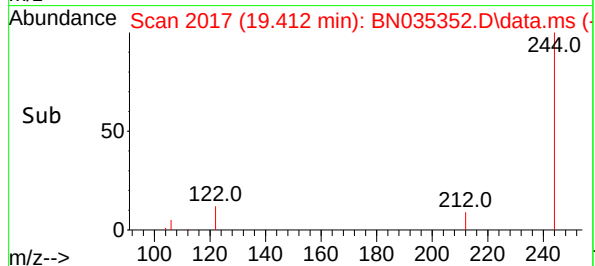
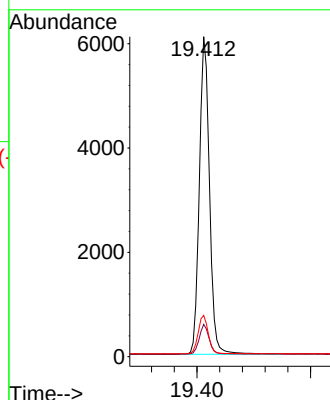
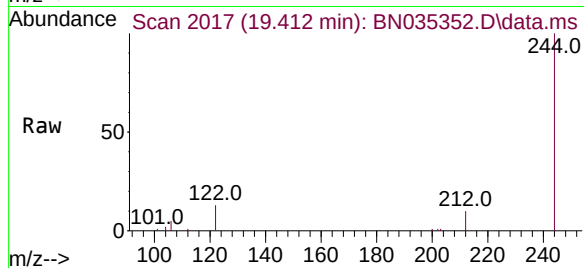
ClientSampleId :

SSTDICCC0.4

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

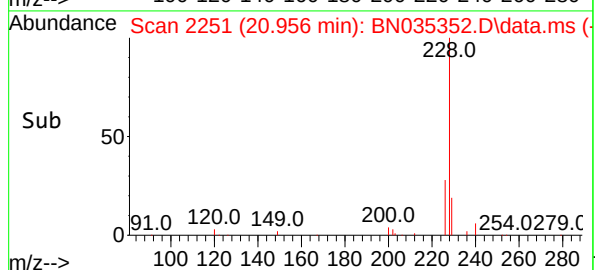
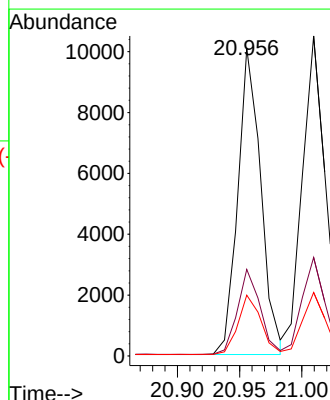
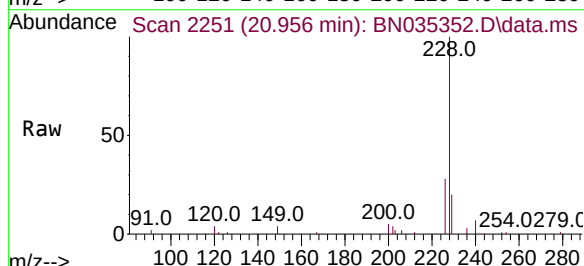
Manual Integrations  
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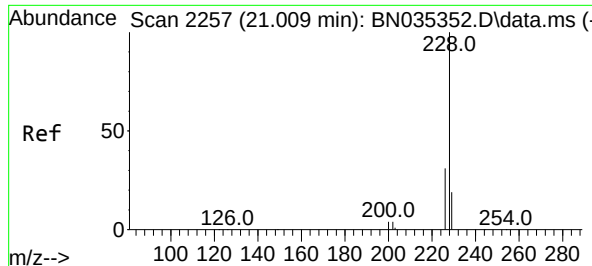
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#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

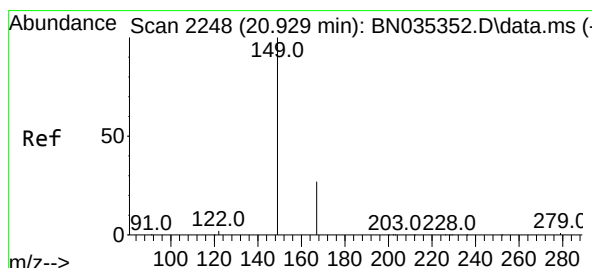
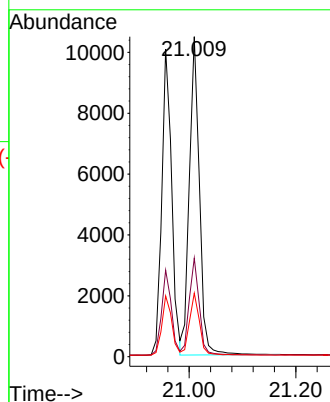
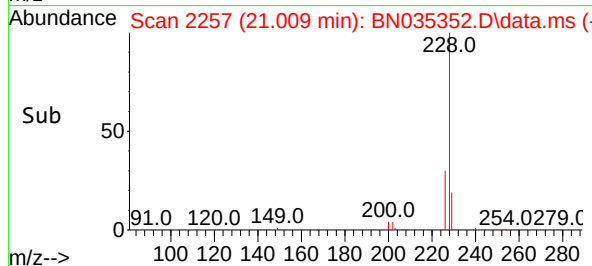
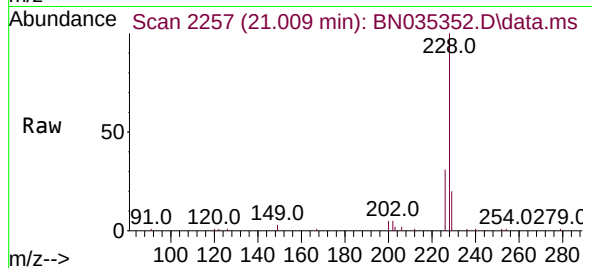
ClientSampleId :

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

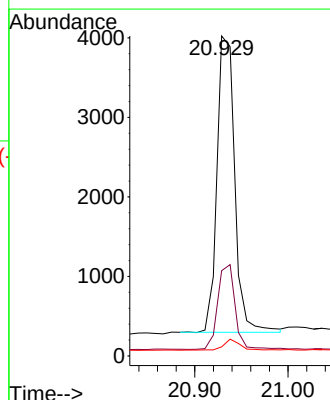
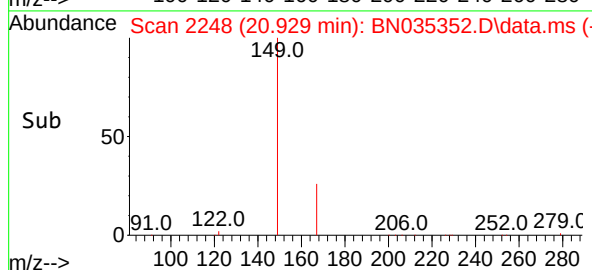
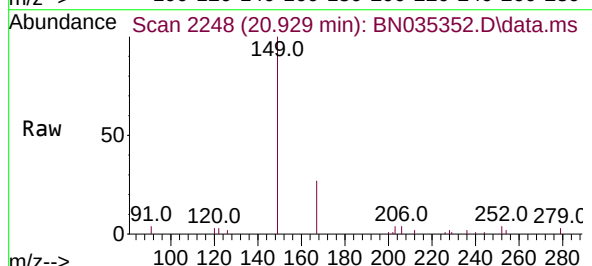
RT: 20.929 min Scan# 2248

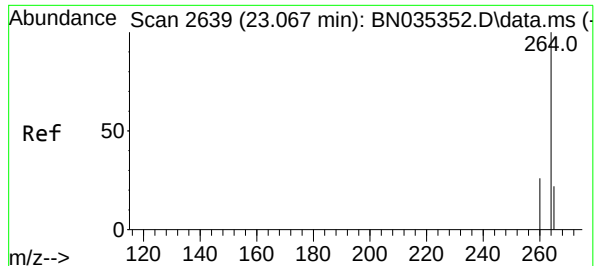
Delta R.T. 0.000 min

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 :

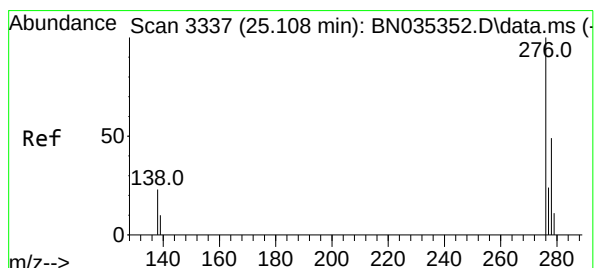
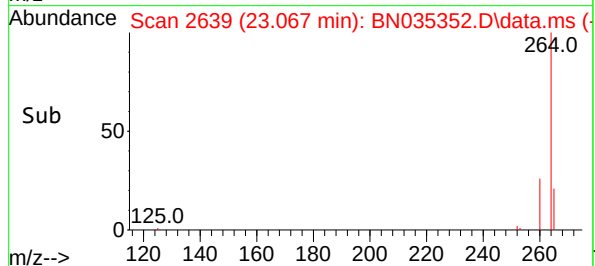
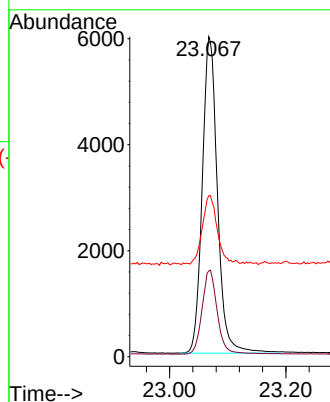
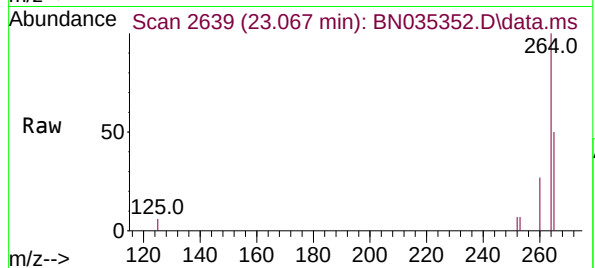
SSTDICCC0.4

|           |       |       |      |
|-----------|-------|-------|------|
| 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 |

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: 0.384 ng

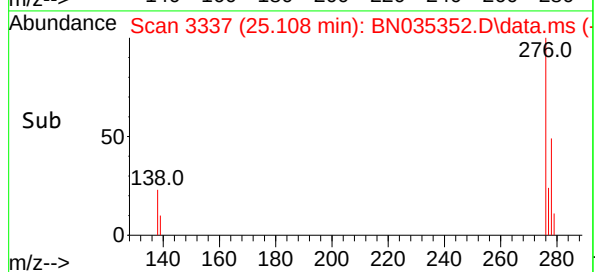
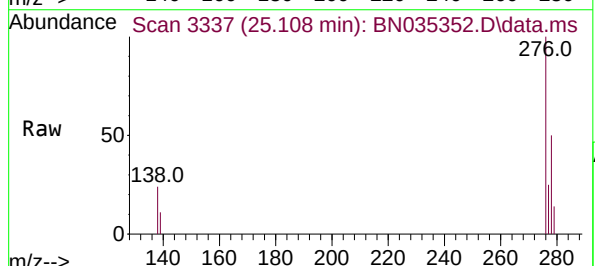
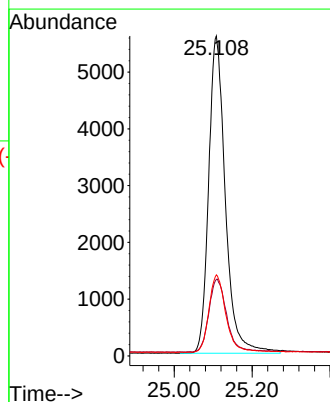
RT: 25.108 min Scan# 3337

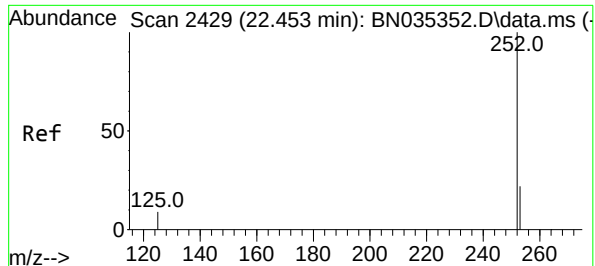
Delta R.T. 0.000 min

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

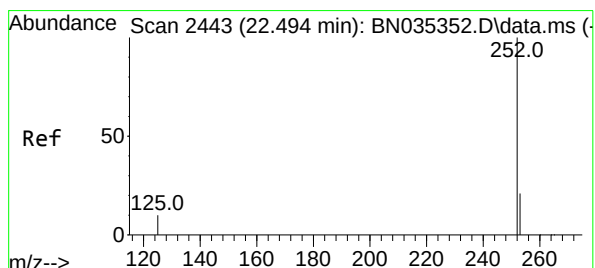
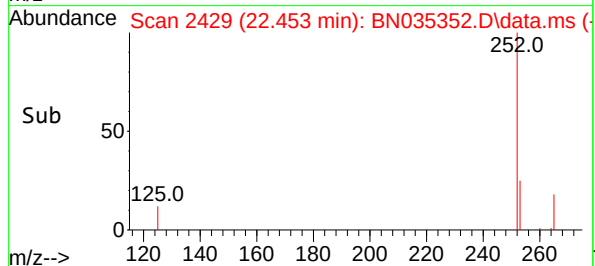
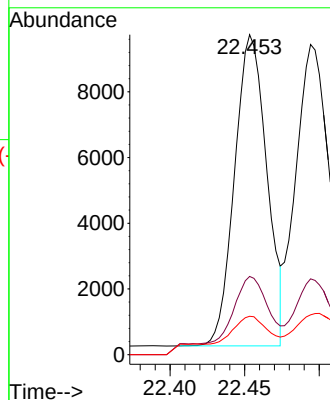
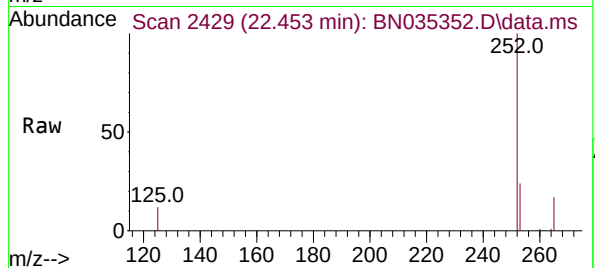
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 252   | Resp: | 1423 |
| Ion Ratio | Lower | Upper |      |
| 252       | 100   |       |      |
| 253       | 24.5  | 19.6  | 29.4 |
| 125       | 12.0  | 9.6   | 14.4 |

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

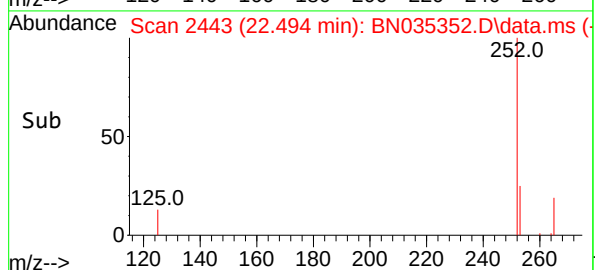
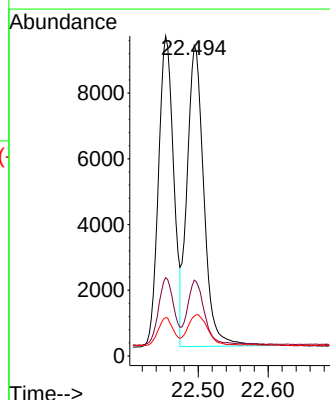
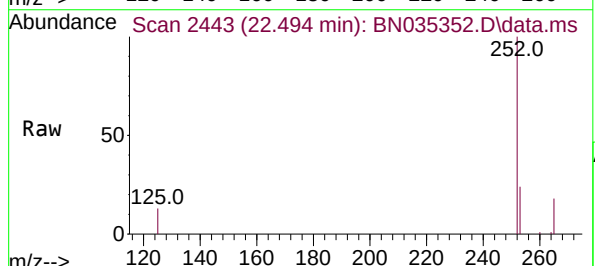
RT: 22.494 min Scan# 2443

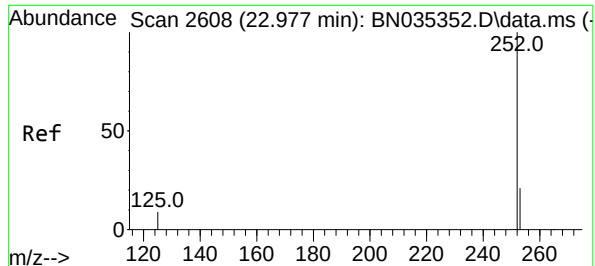
Delta R.T. 0.000 min

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

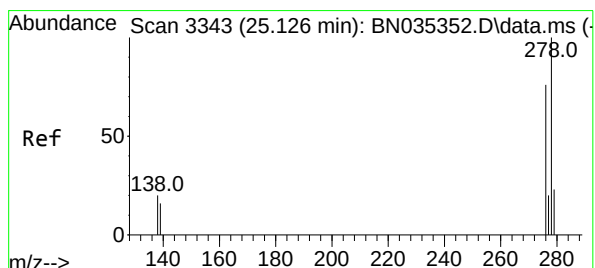
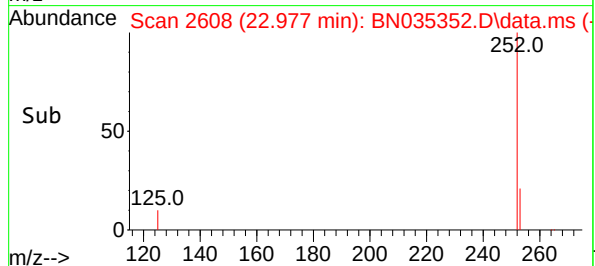
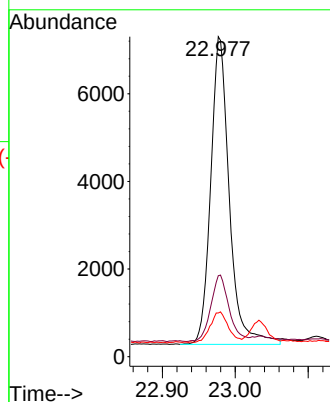
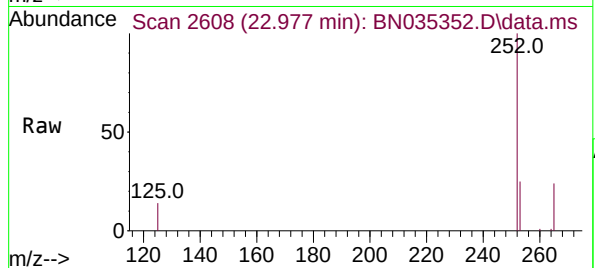
ClientSampleId :

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

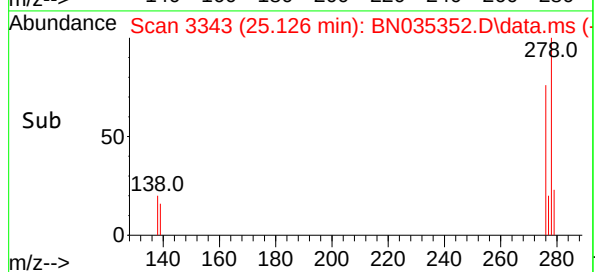
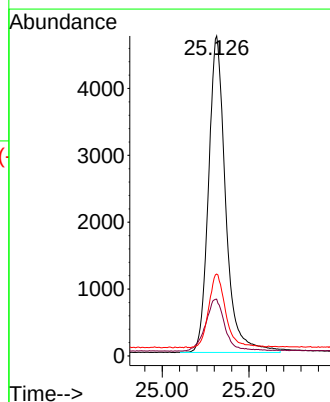
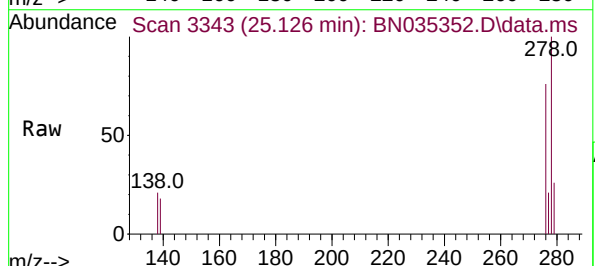
RT: 25.126 min Scan# 3343

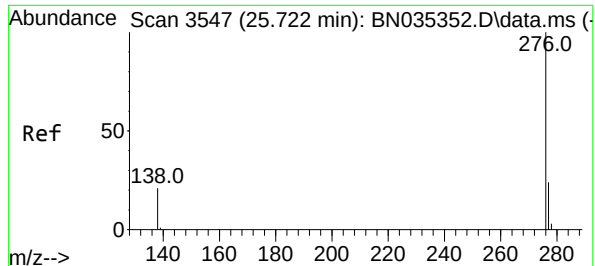
Delta R.T. 0.000 min

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# 30

Delta R.T. 0.000 min

Lab File: BN035352.D

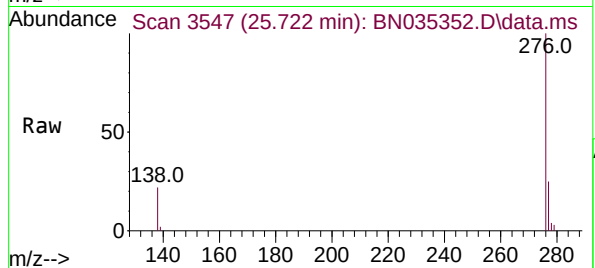
Acq: 27 Nov 2024 16:46

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4



Tgt Ion:276 Resp: 13529

Ion Ratio Lower Upper

276 100

277 24.9 19.9 29.9

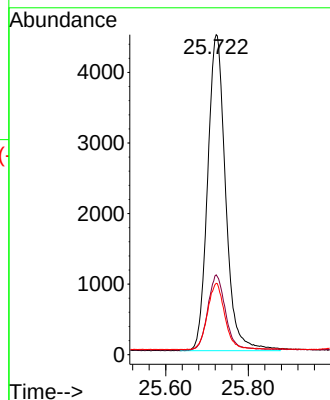
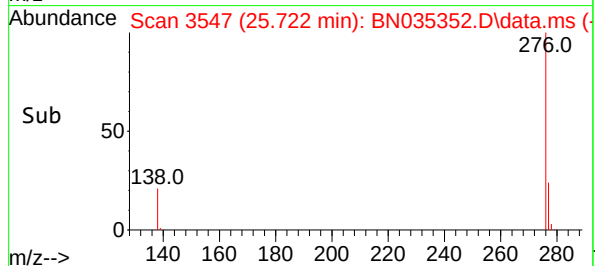
138 22.3 17.8 26.8

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

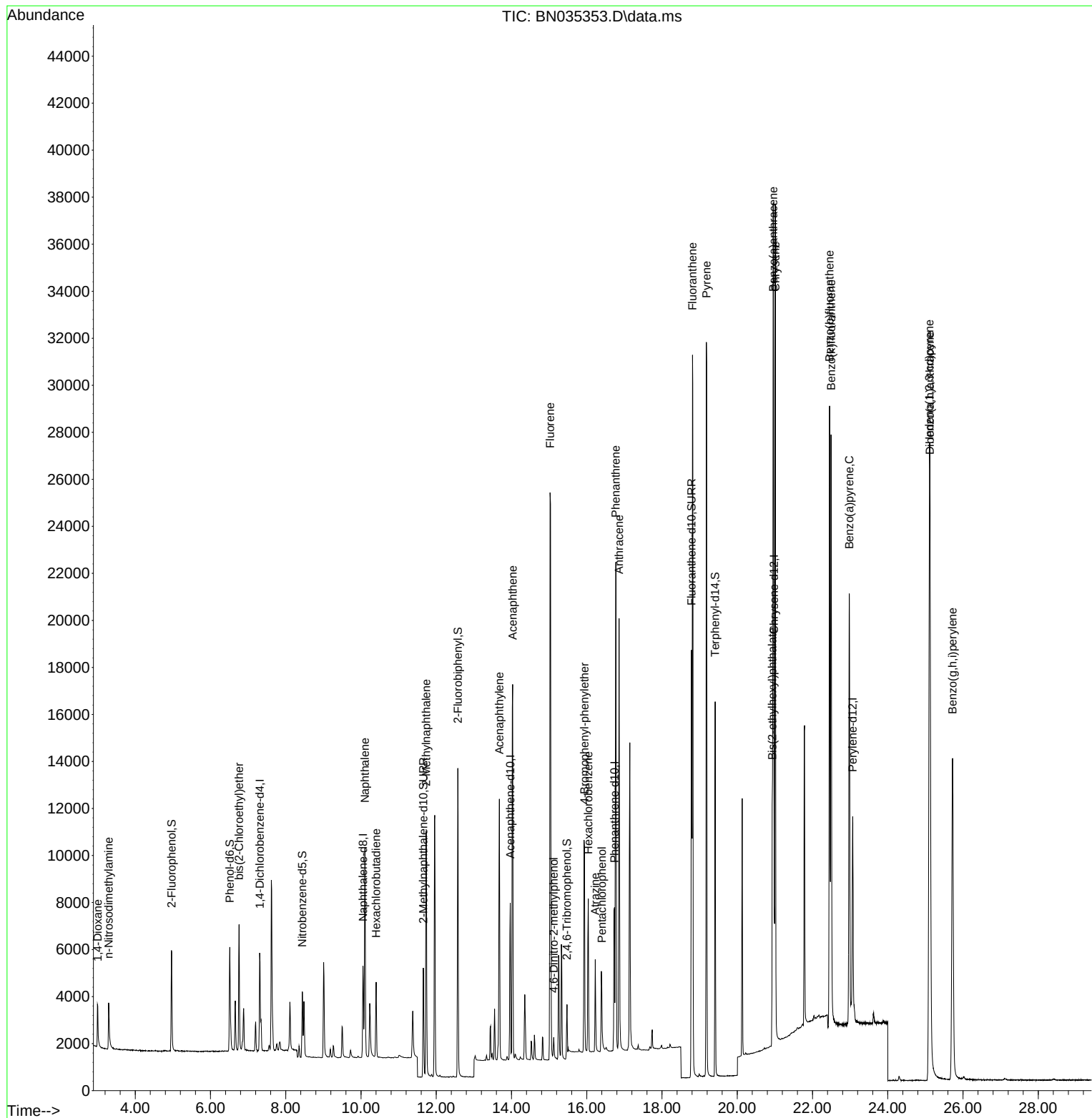
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.308  | 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              |        |      |          |       |       |          |
| 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

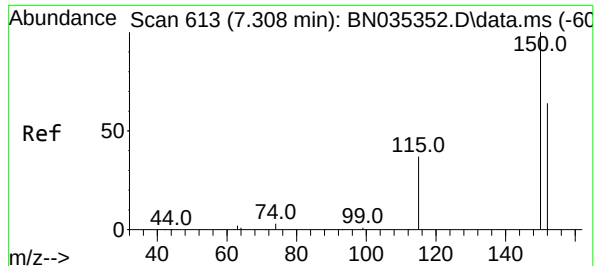
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112724\  
Data File : BN035353.D  
Acq On : 27 Nov 2024 17:21  
Operator : RC/JU  
Sample : SSTDICC0.8  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

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

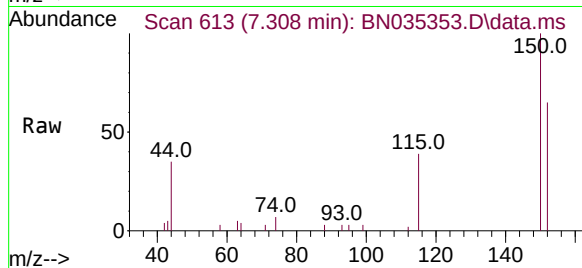




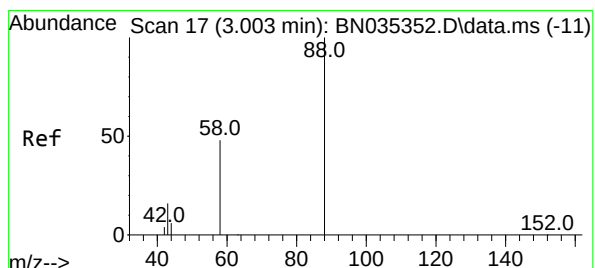
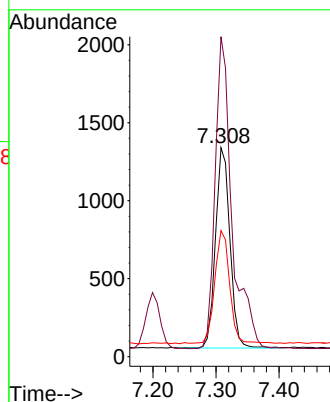
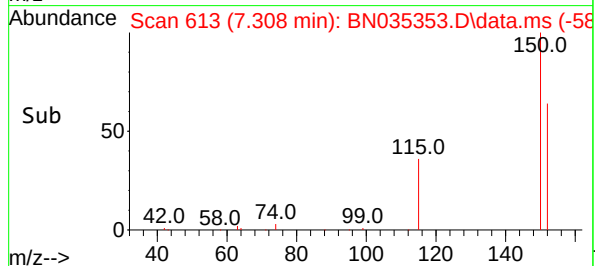


#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.308 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: BN035353.D  
Acq: 27 Nov 2024 17:21

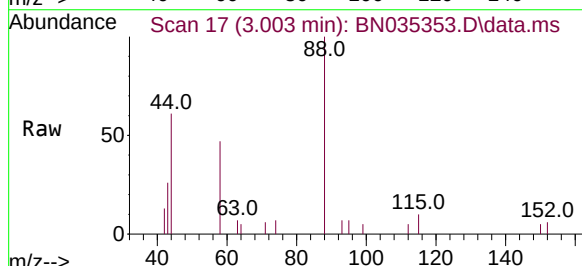
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8



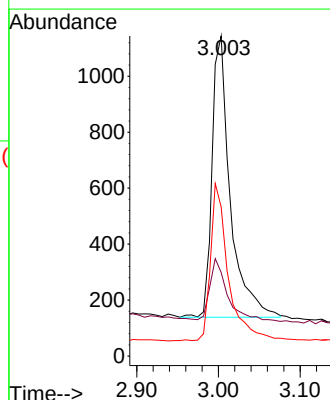
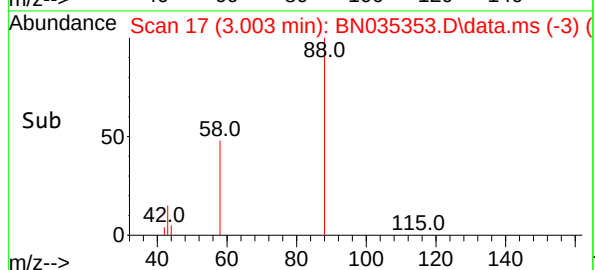
Tgt Ion:152 Resp: 2047  
Ion Ratio Lower Upper  
152 100  
150 153.1 124.0 186.0  
115 60.3 49.6 74.4

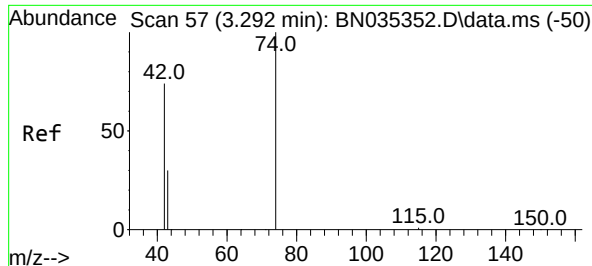


#2  
1,4-Dioxane  
Concen: 0.836 ng  
RT: 3.003 min Scan# 17  
Delta R.T. 0.000 min  
Lab File: BN035353.D  
Acq: 27 Nov 2024 17:21



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

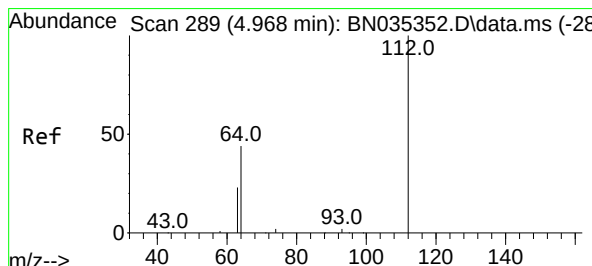
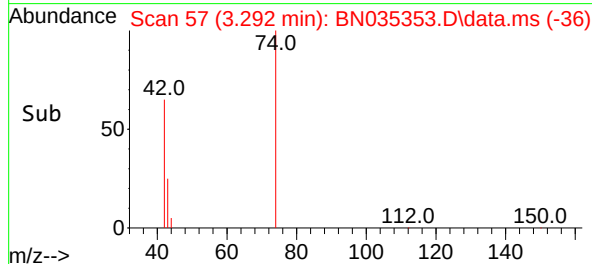
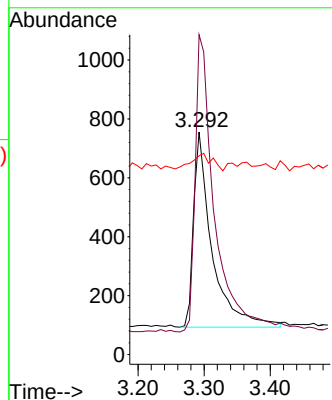
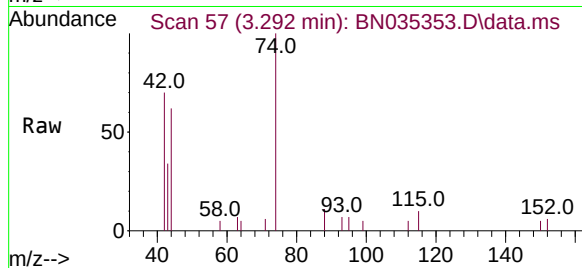




#3  
n-Nitrosodimethylamine  
Concen: 0.745 ng  
RT: 3.292 min Scan# 51  
Delta R.T. 0.000 min  
Lab File: BN035353.D  
Acq: 27 Nov 2024 17:21

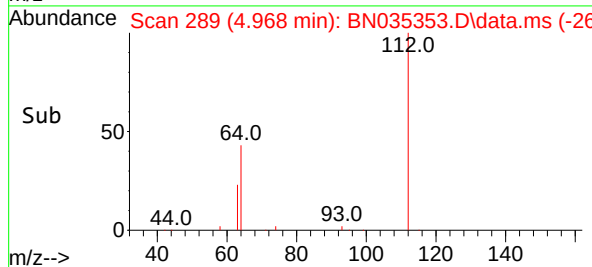
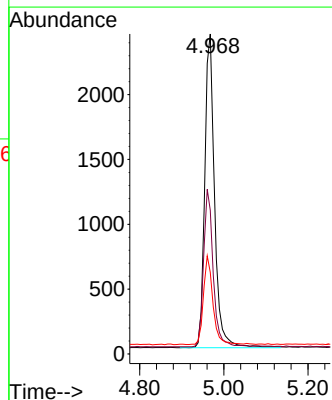
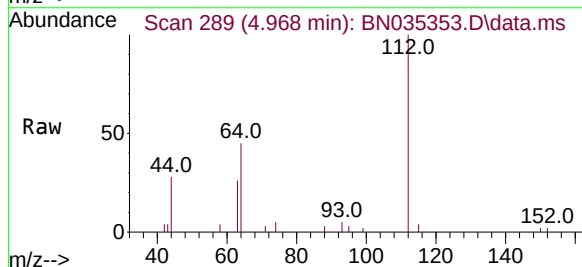
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

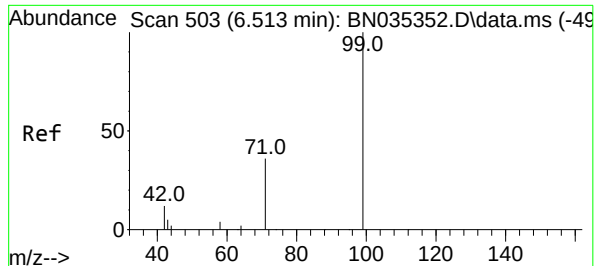
Tgt Ion: 42 Resp: 1291  
Ion Ratio Lower Upper  
42 100  
74 158.7 124.9 187.3  
44 9.8 2.2 3.4#



#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

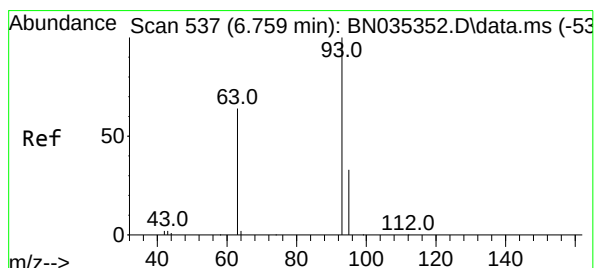
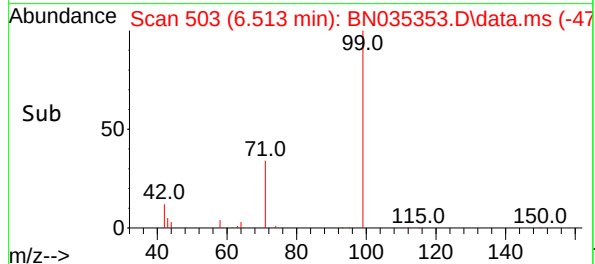
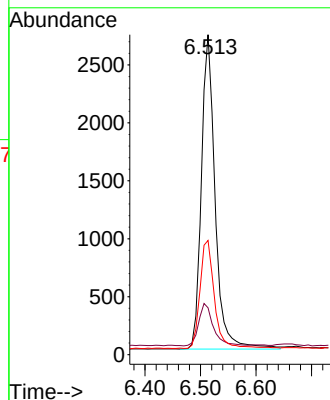
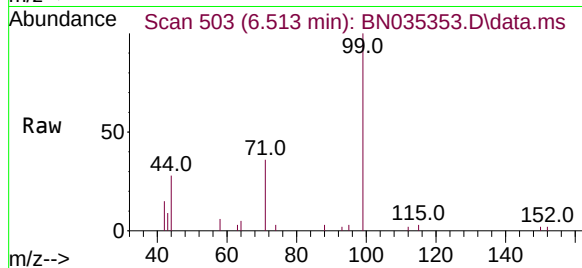




#5  
Phenol-d6  
Concen: 0.718 ng  
RT: 6.513 min Scan# 503  
Delta R.T. 0.000 min  
Lab File: BN035353.D  
Acq: 27 Nov 2024 17:21

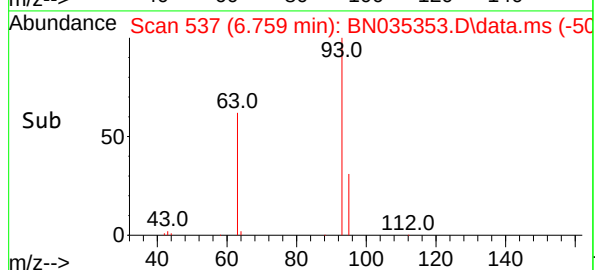
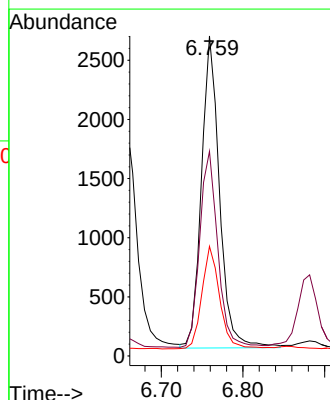
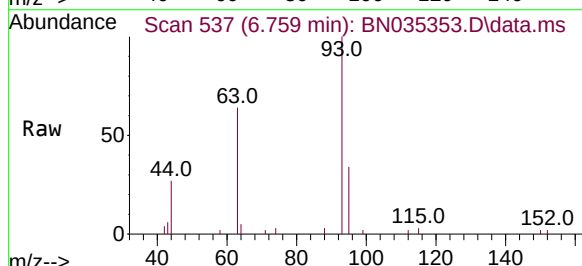
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDIC0.8

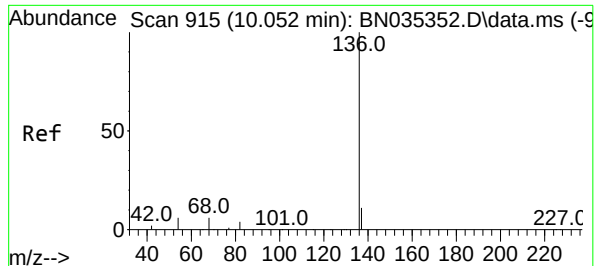
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 99      | 100   |       |       |
| 42      | 14.3  | 11.4  | 17.2  |
| 71      | 36.1  | 29.3  | 43.9  |



#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  |

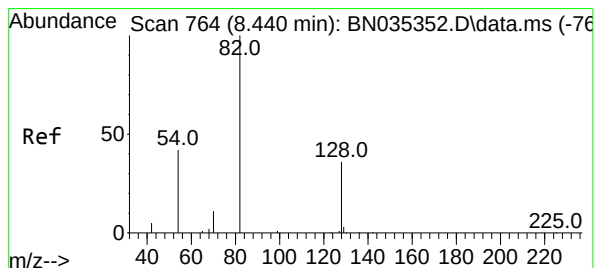
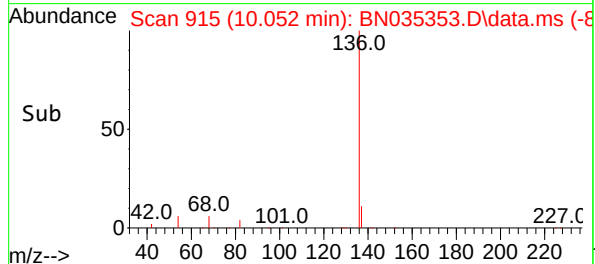
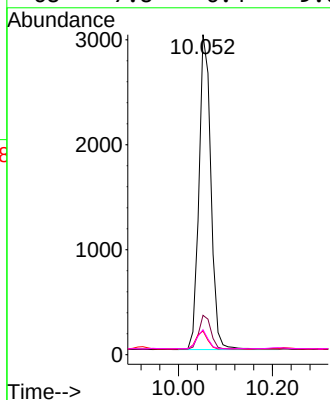
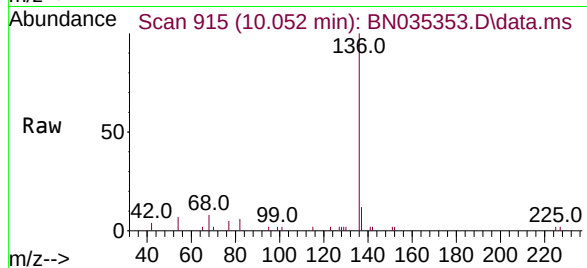




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.052 min Scan# 915  
Delta R.T. 0.000 min  
Lab File: BN035353.D  
Acq: 27 Nov 2024 17:21

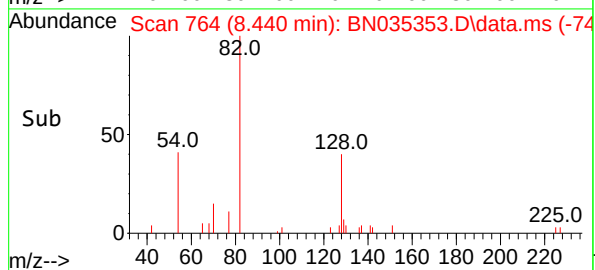
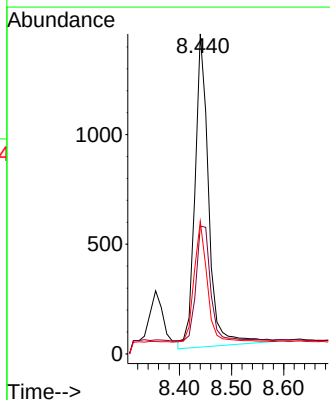
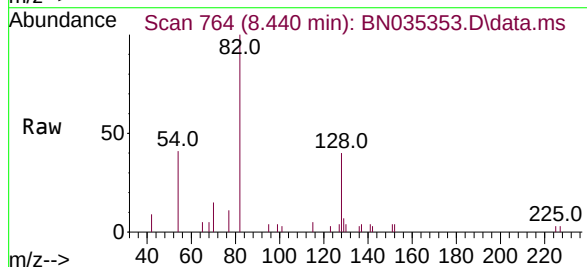
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

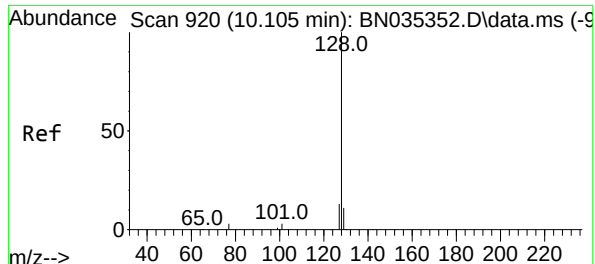
|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:136 | Resp: | 5308        |
| Ion         | Ratio | Lower Upper |
| 136         | 100   |             |
| 137         | 12.3  | 10.2 15.2   |
| 54          | 7.4   | 6.1 9.1     |
| 68          | 7.8   | 6.4 9.6   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



#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   |

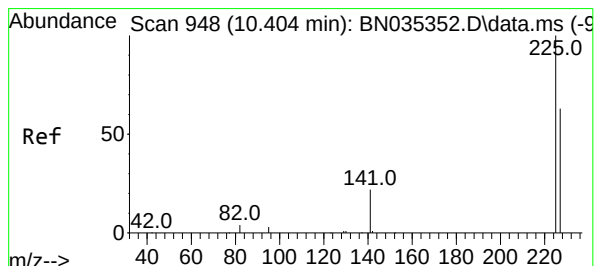
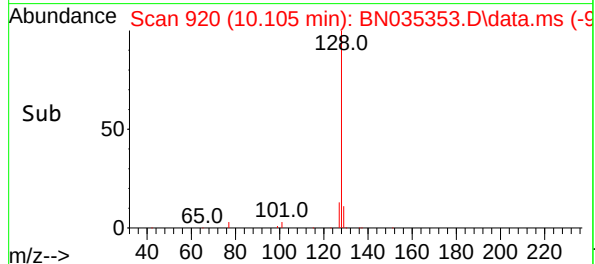
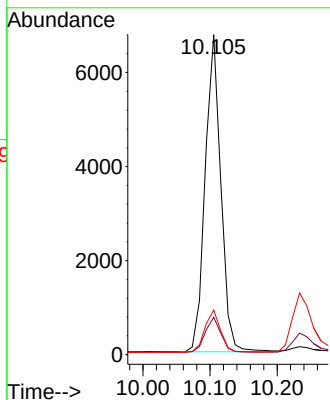
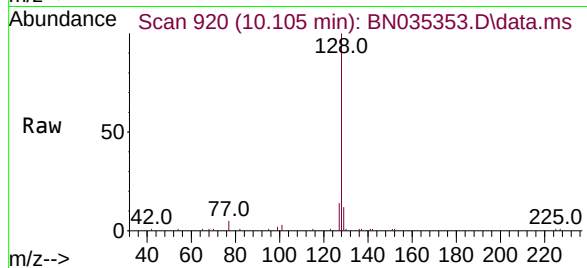


#9  
Naphthalene

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  |

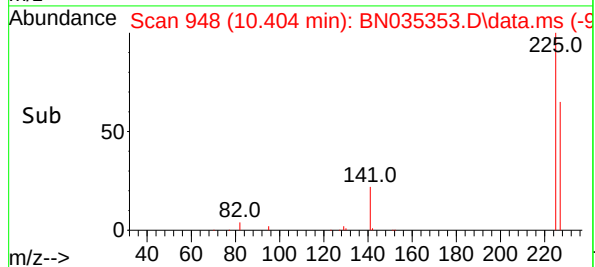
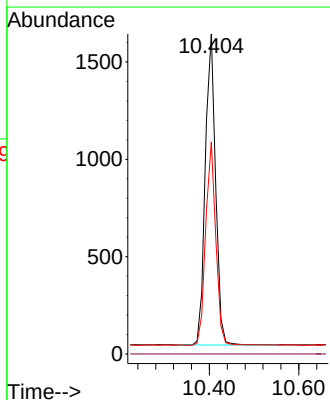
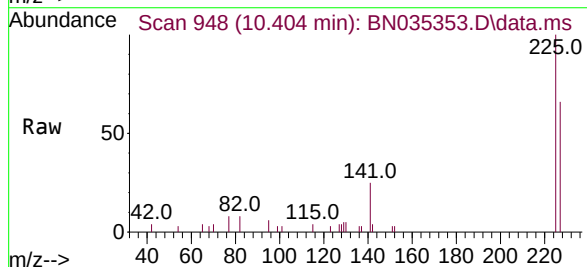


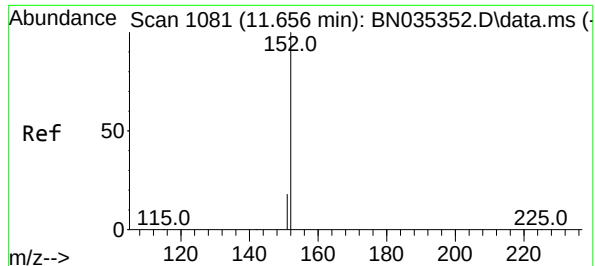
## #10

## 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  |

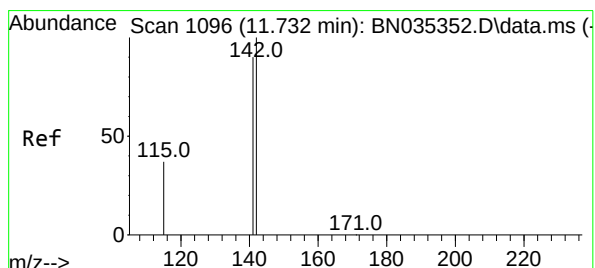
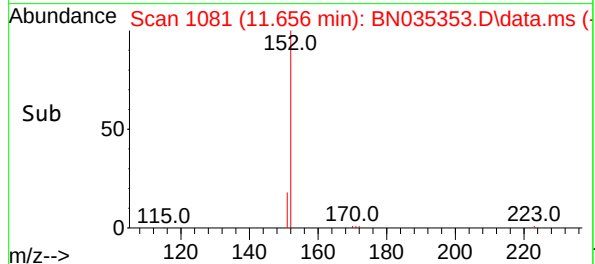
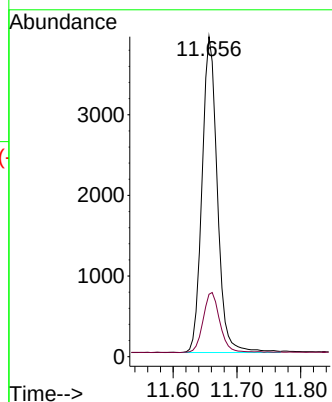
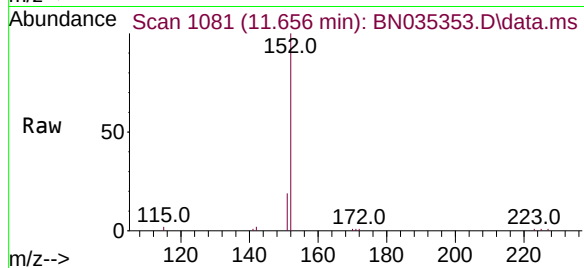




#11  
2-Methylnaphthalene-d10  
Concen: 0.690 ng  
RT: 11.656 min Scan# 1081  
Delta R.T. 0.000 min  
Lab File: BN035353.D  
Acq: 27 Nov 2024 17:21

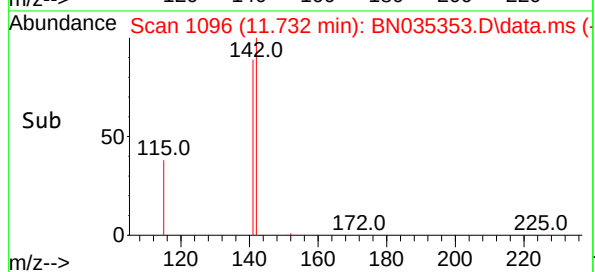
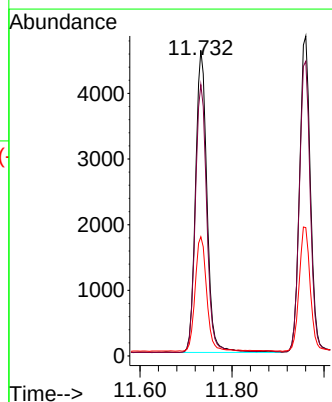
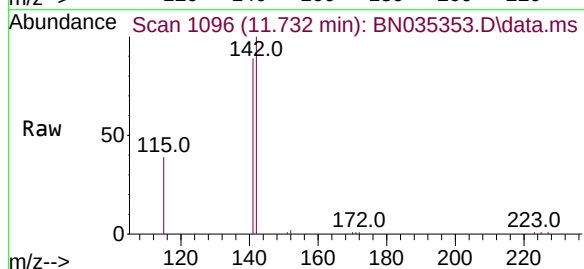
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

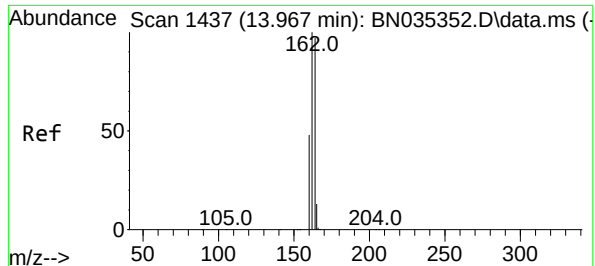
Tgt Ion:152 Resp: 6530  
Ion Ratio Lower Upper  
152 100  
151 20.8 16.6 25.0



#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

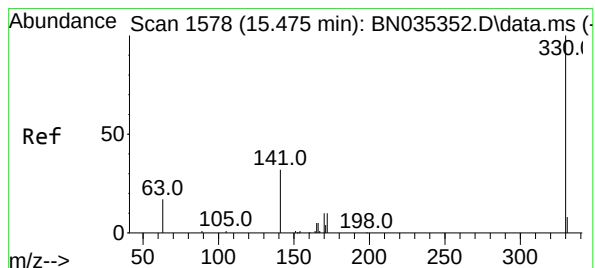
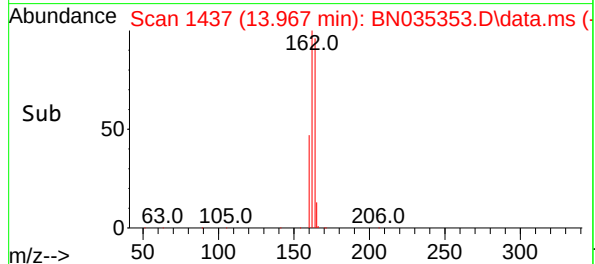
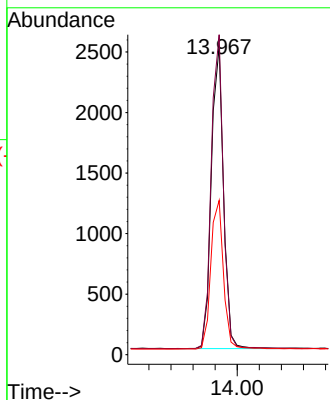
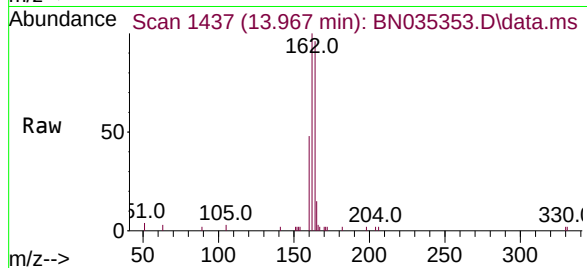




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.967 min Scan# 1437  
Delta R.T. 0.000 min  
Lab File: BN035353.D  
Acq: 27 Nov 2024 17:21

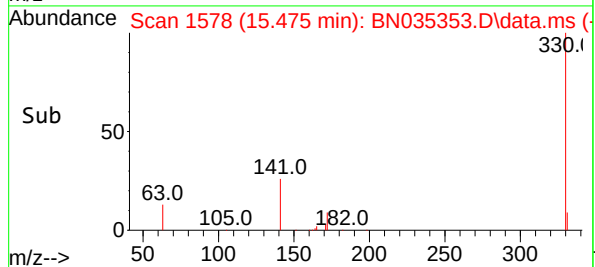
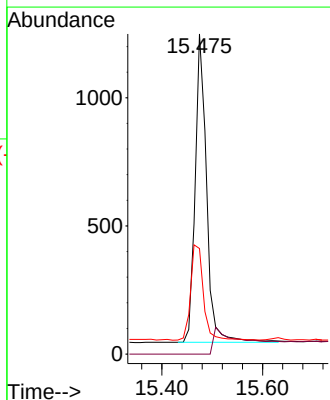
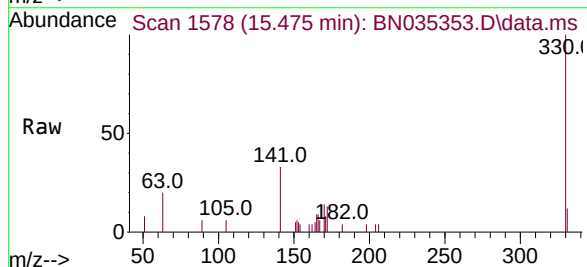
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

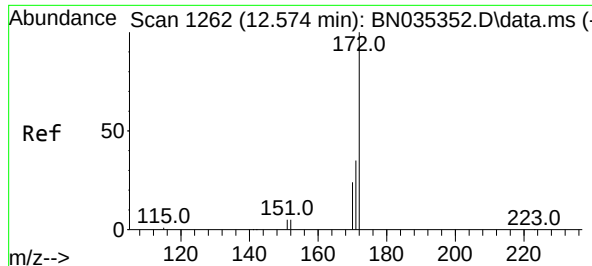
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 103.9 | 82.2  | 123.2 |
| 160     | 50.1  | 40.1  | 60.1  |



#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 | 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 :

SSTDIC0.8

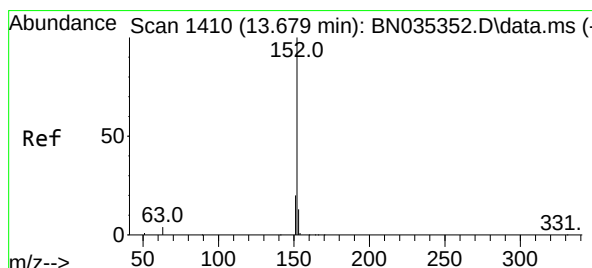
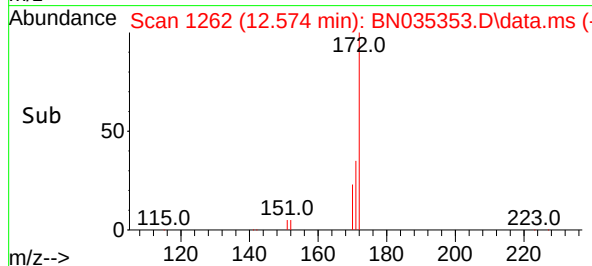
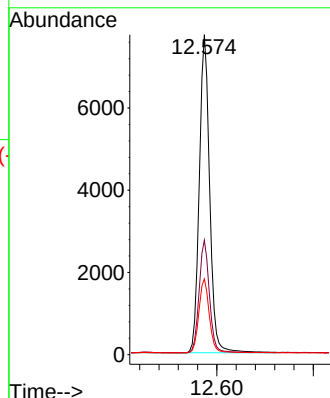
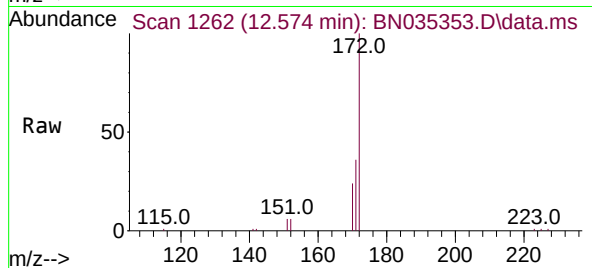
Tgt Ion:172 Resp: 11528

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

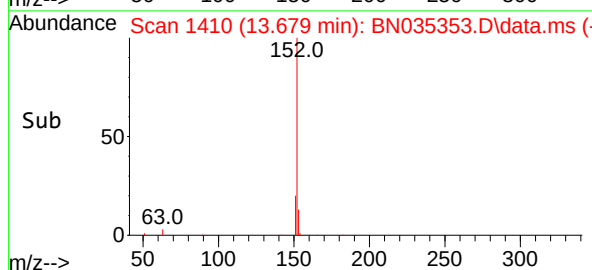
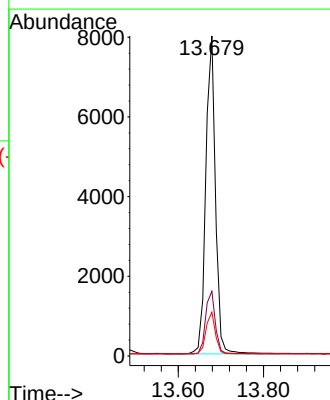
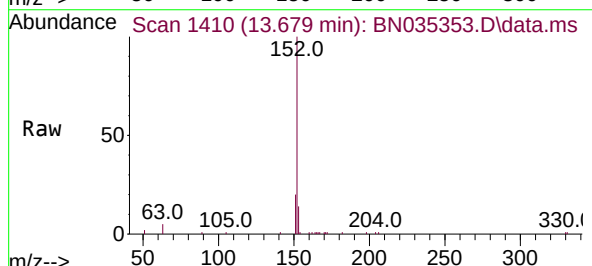
Tgt Ion:152 Resp: 12523

Ion Ratio Lower Upper

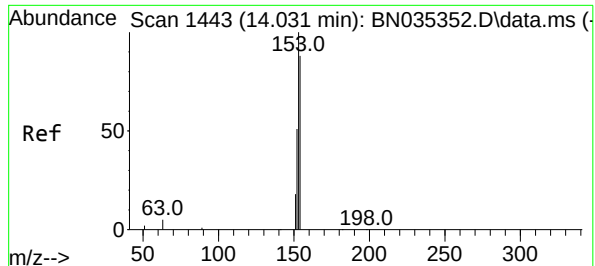
152 100

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

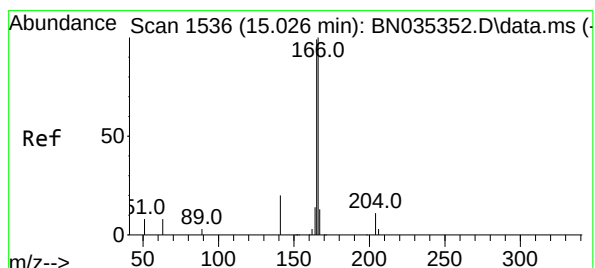
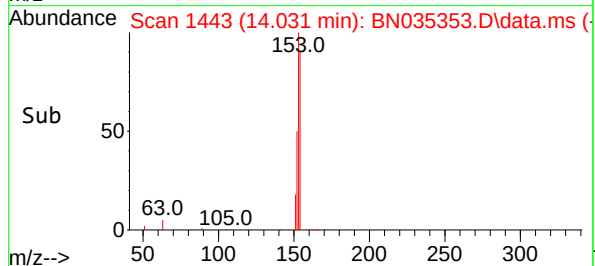
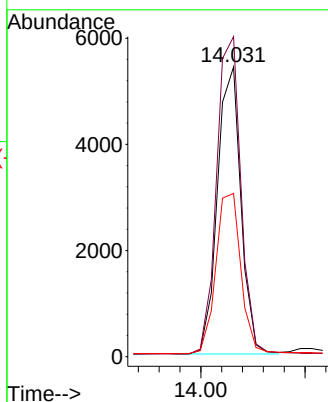
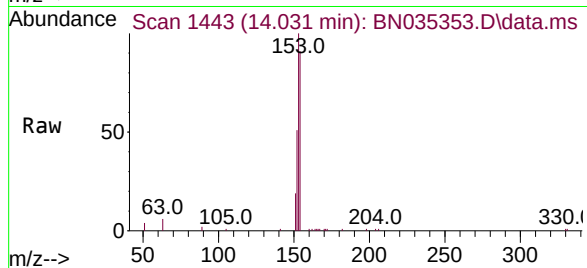
Tgt Ion:154 Resp: 8470

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

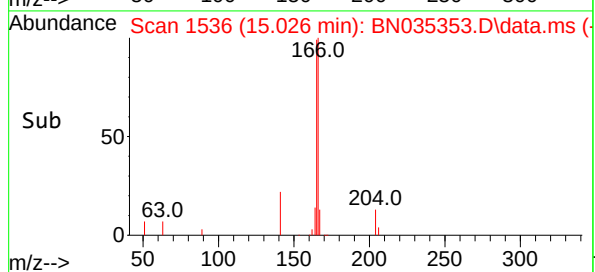
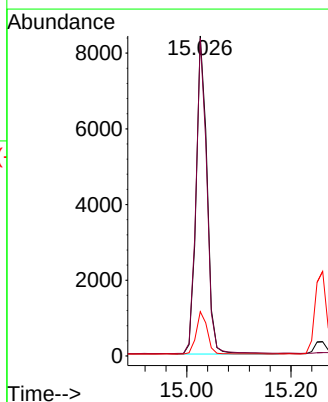
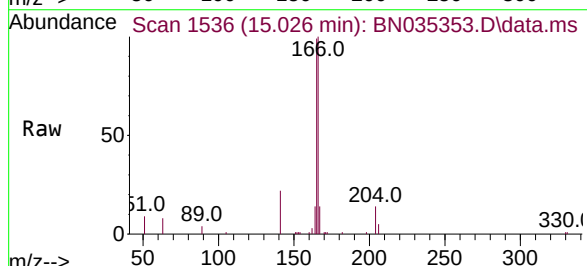
Tgt Ion:166 Resp: 12232

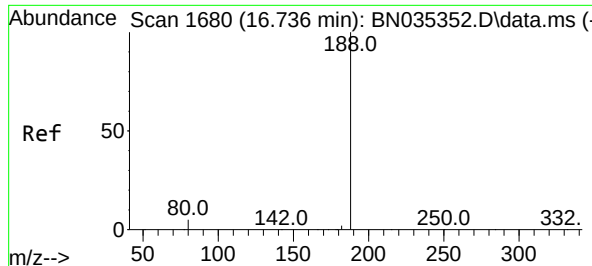
Ion Ratio Lower Upper

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

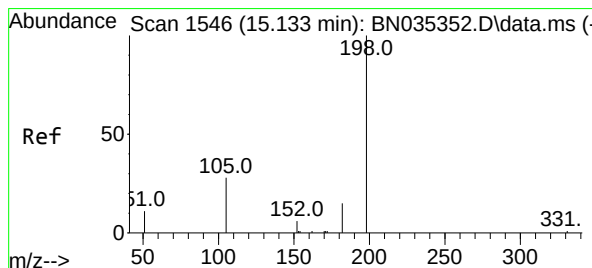
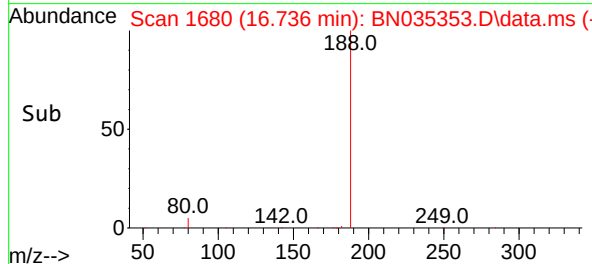
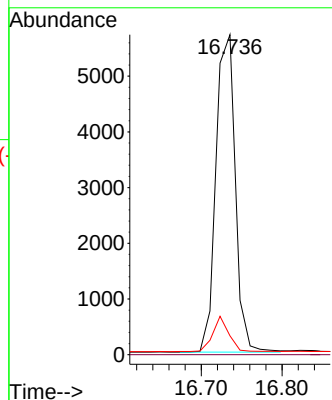
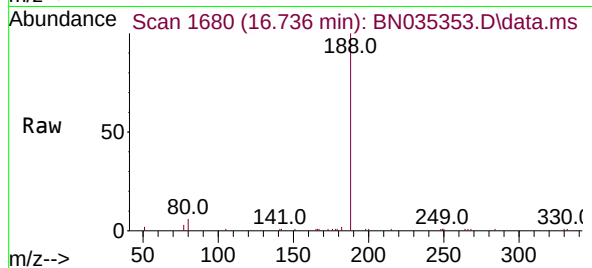
Tgt Ion:188 Resp: 9525

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

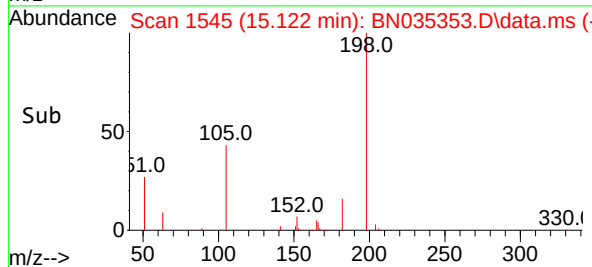
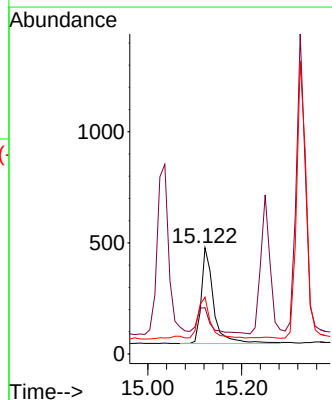
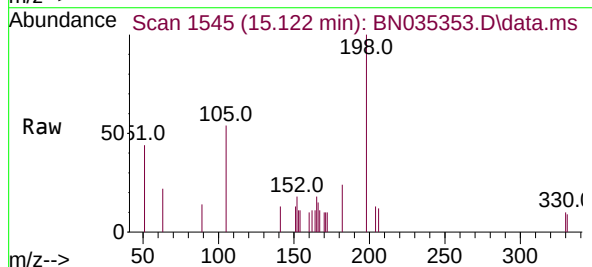
Tgt Ion:198 Resp: 784

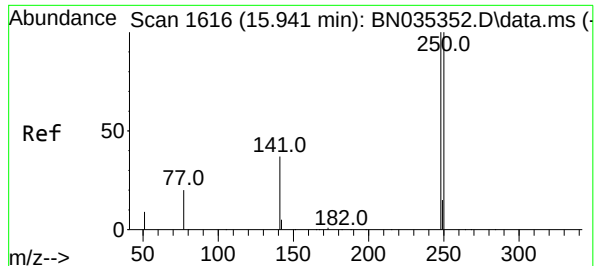
Ion Ratio Lower Upper

198 100

51 43.5 46.5 69.7#

105 53.6 45.3 67.9

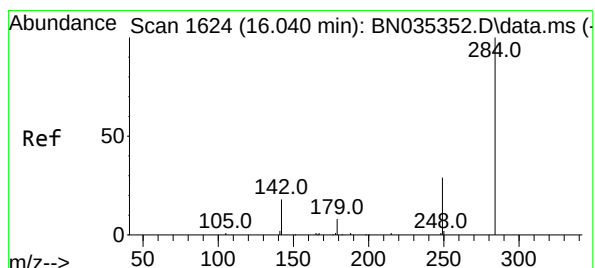
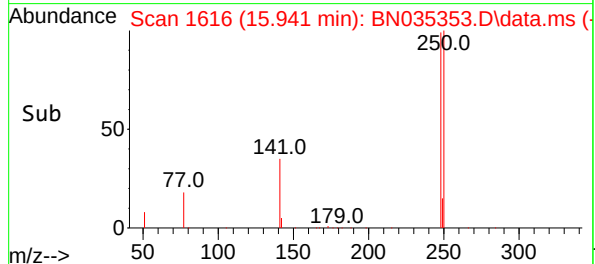
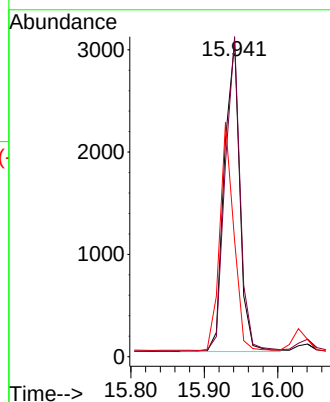
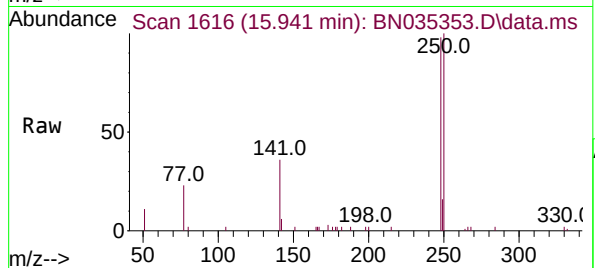




#21  
4-Bromophenyl-phenylether  
Concen: 0.732 ng  
RT: 15.941 min Scan# 1616  
Delta R.T. 0.000 min  
Lab File: BN035353.D  
Acq: 27 Nov 2024 17:21

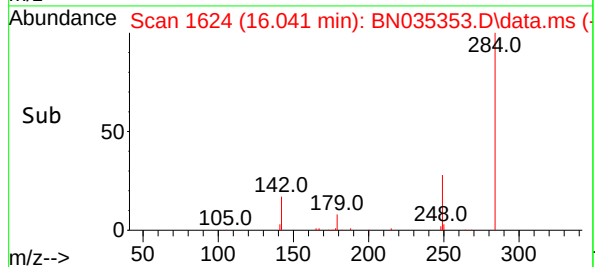
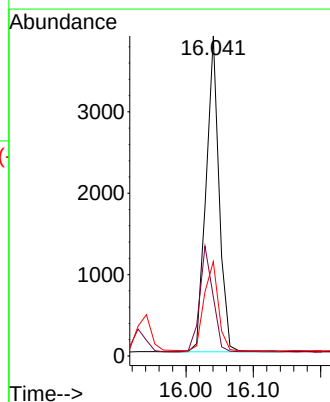
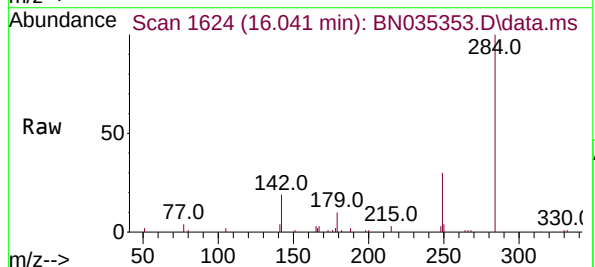
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

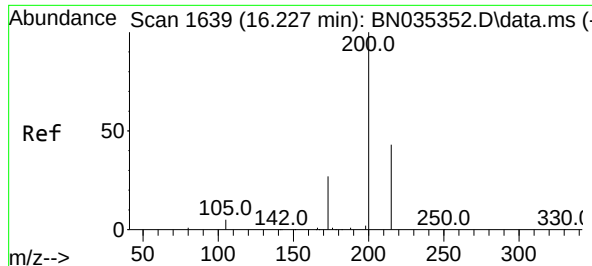
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 248     | 100   |       |       |
| 250     | 101.5 | 80.6  | 120.8 |
| 141     | 36.9  | 31.5  | 47.3  |



#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  |

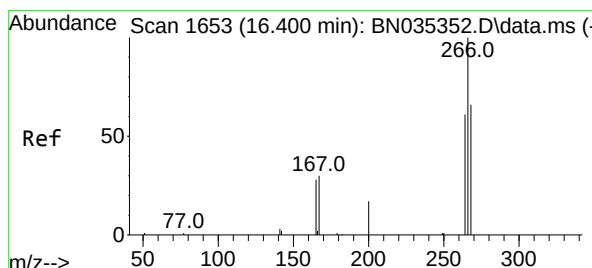
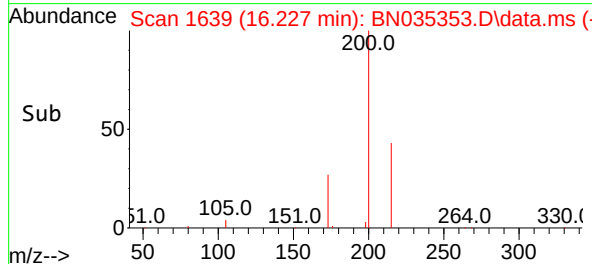
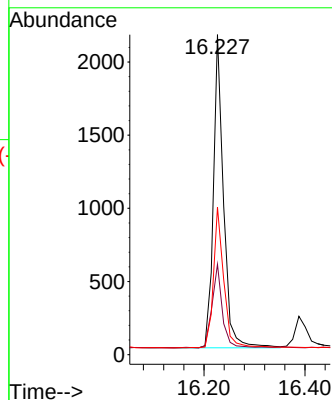
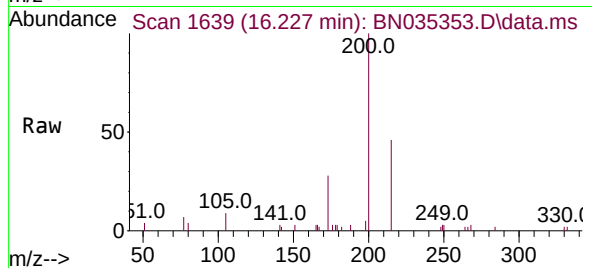




#23  
Atrazine  
Concen: 0.547 ng  
RT: 16.227 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: BN035353.D  
Acq: 27 Nov 2024 17:21

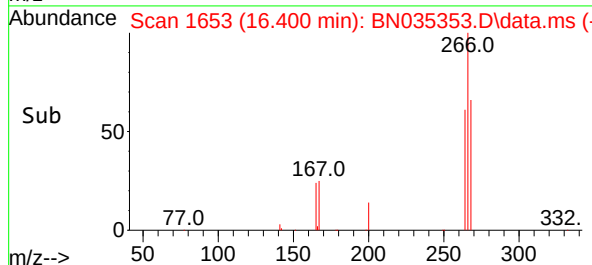
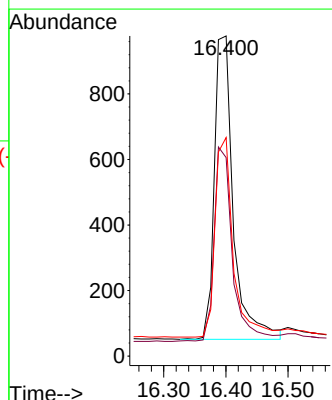
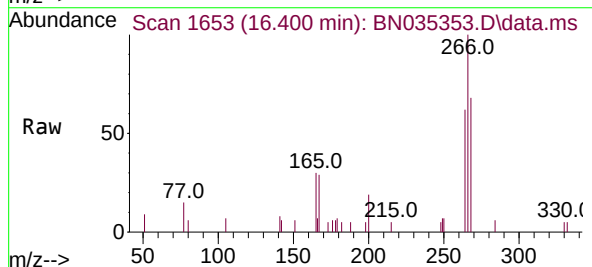
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

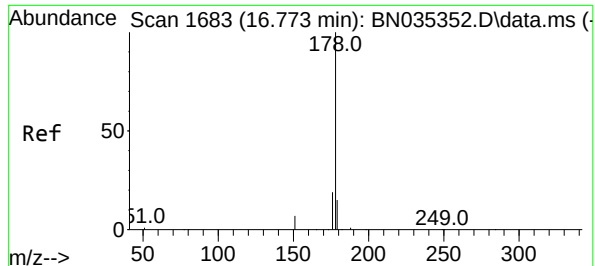
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 200     | 100   |       |       |
| 173     | 28.3  | 24.1  | 36.1  |
| 215     | 46.1  | 36.9  | 55.3  |



#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  |

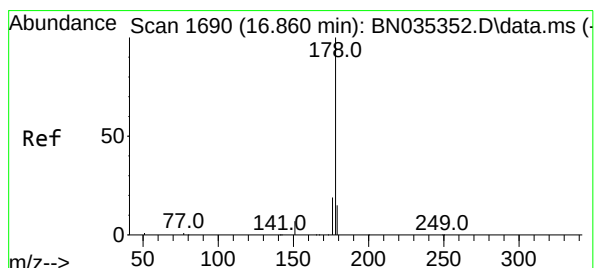
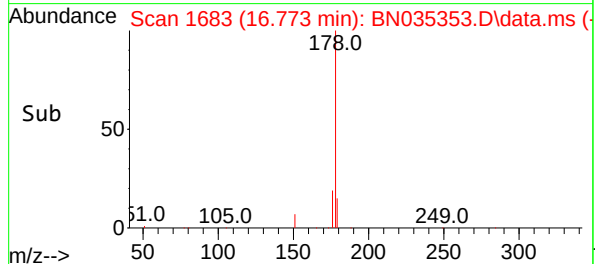
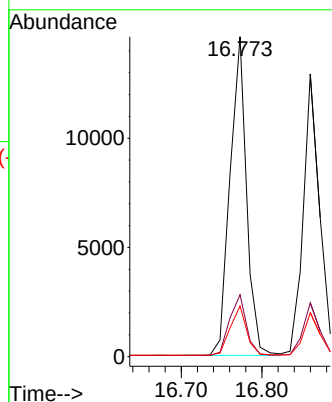
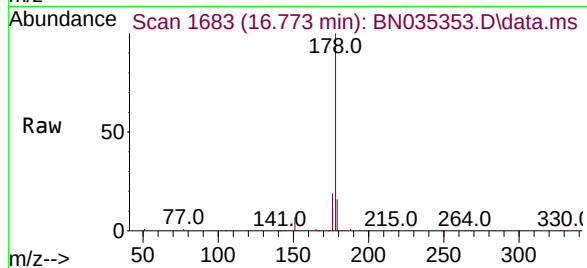




#25  
Phenanthrene  
Concen: 0.830 ng  
RT: 16.773 min Scan# 1683  
Delta R.T. 0.000 min  
Lab File: BN035353.D  
Acq: 27 Nov 2024 17:21

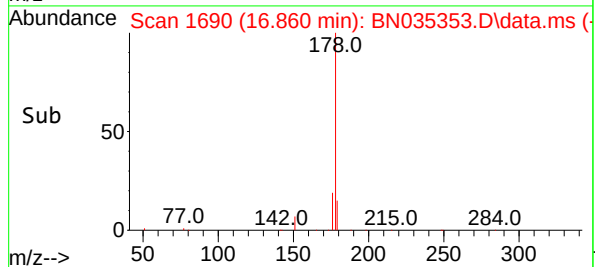
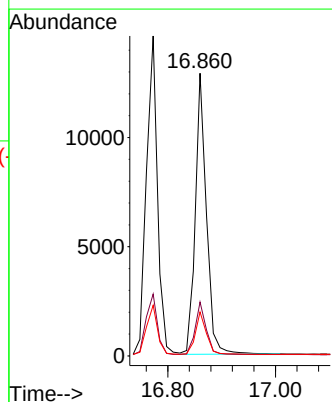
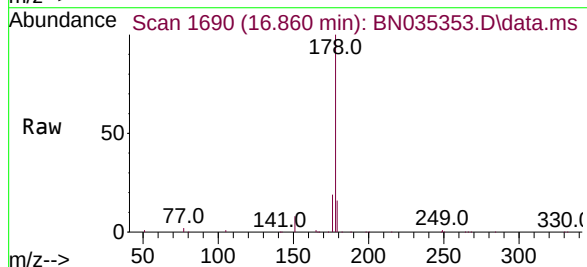
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

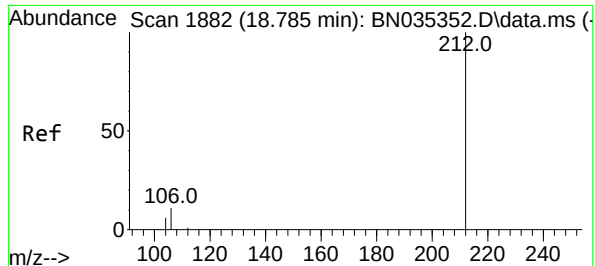
Tgt Ion:178 Resp: 20803  
Ion Ratio Lower Upper  
178 100  
176 19.4 15.4 23.2  
179 15.4 12.3 18.5



#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

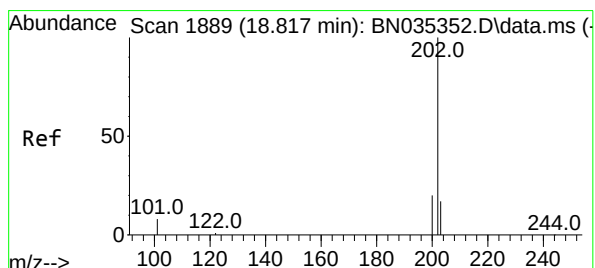
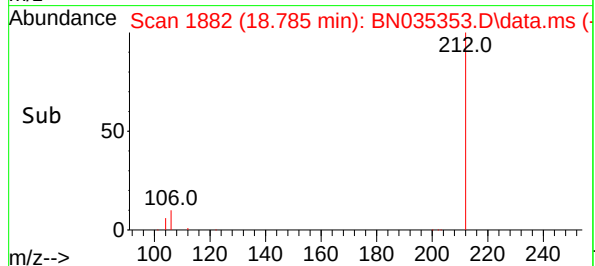
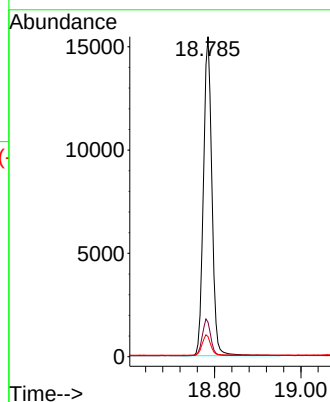
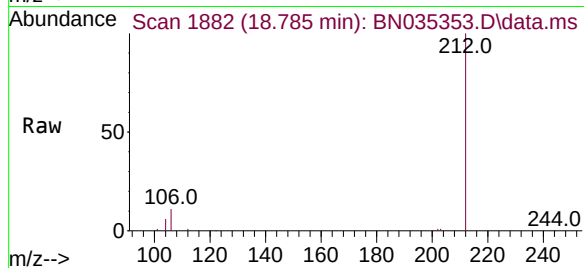
Tgt Ion:212 Resp: 21050

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

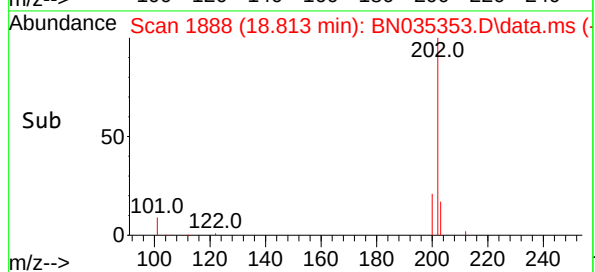
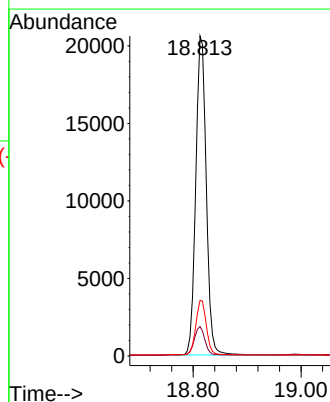
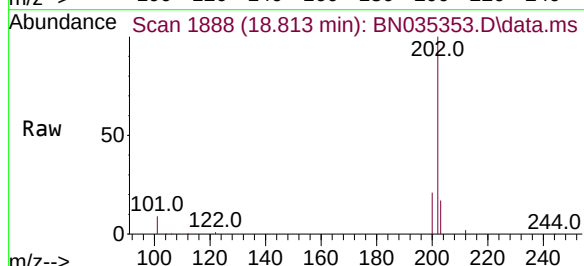
Tgt Ion:202 Resp: 27743

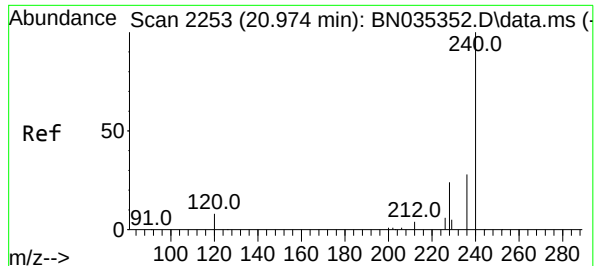
Ion Ratio Lower Upper

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

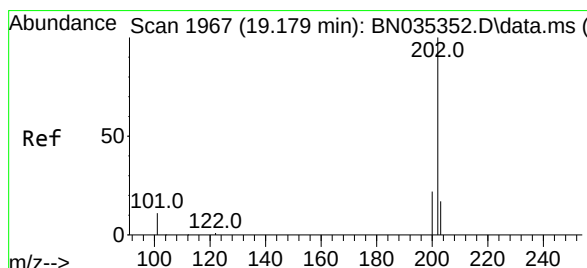
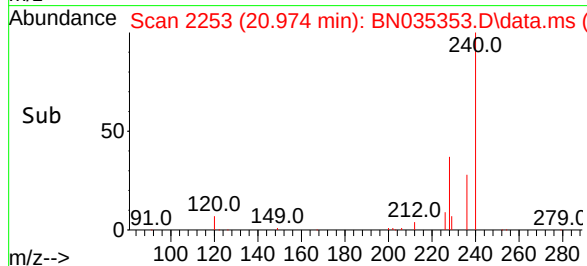
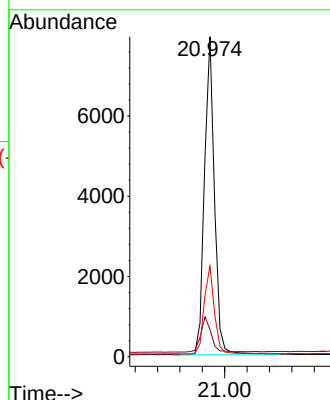
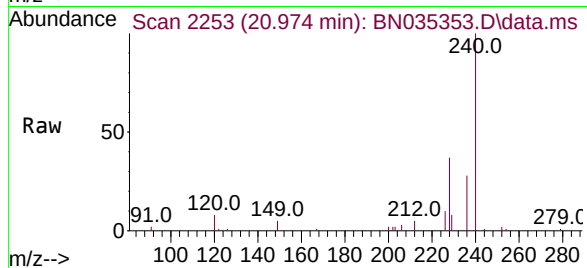
Tgt Ion:240 Resp: 9837

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

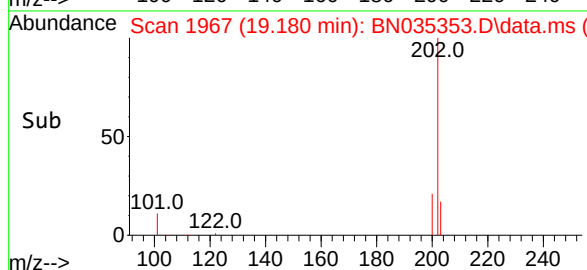
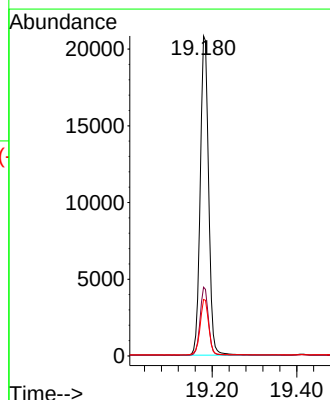
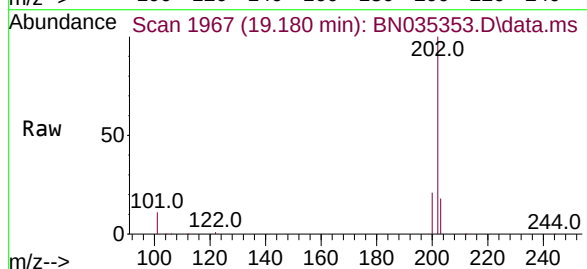
Tgt Ion:202 Resp: 28384

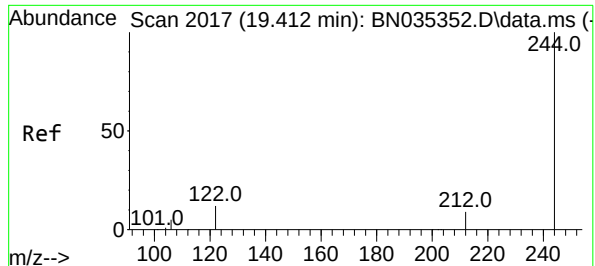
Ion Ratio Lower Upper

202 100

200 21.1 17.0 25.4

203 17.8 14.3 21.5

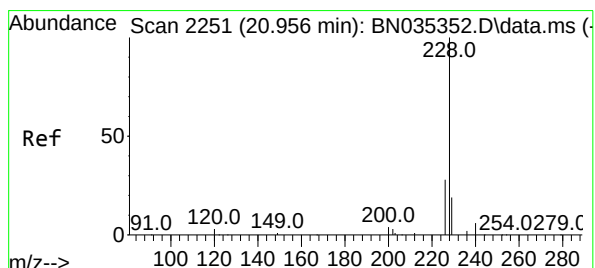
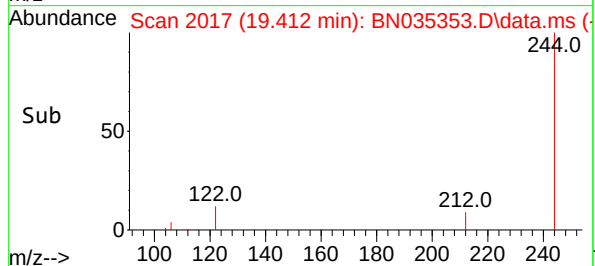
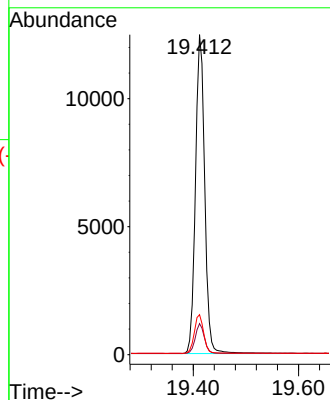
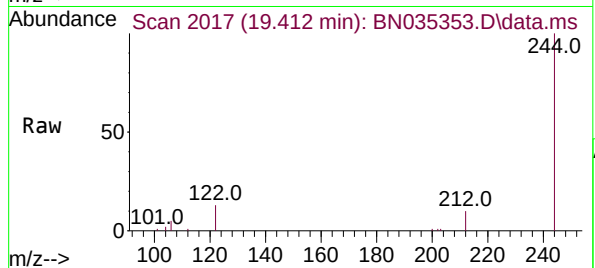




#31  
Terphenyl-d14  
Concen: 0.735 ng  
RT: 19.412 min Scan# 2017  
Delta R.T. 0.000 min  
Lab File: BN035353.D  
Acq: 27 Nov 2024 17:21

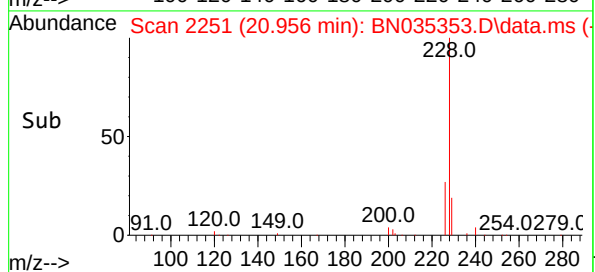
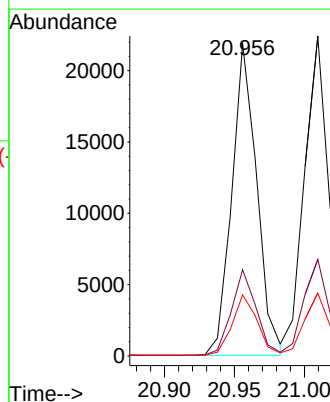
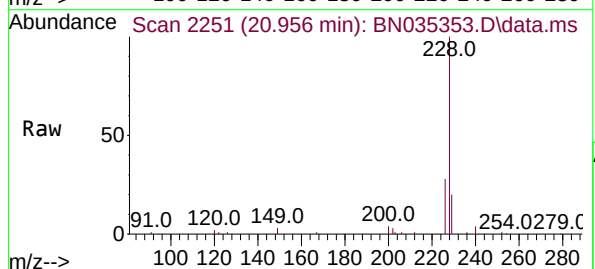
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

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

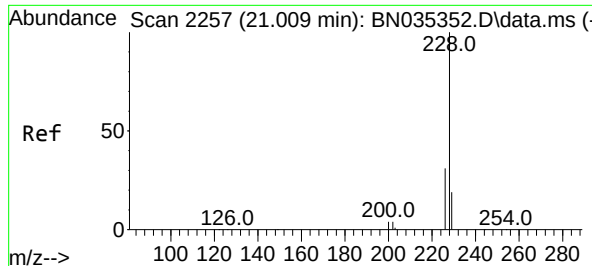


#32  
Benzo(a)anthracene  
Concen: 0.790 ng  
RT: 20.956 min Scan# 2251  
Delta R.T. 0.000 min  
Lab File: BN035353.D  
Acq: 27 Nov 2024 17:21

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

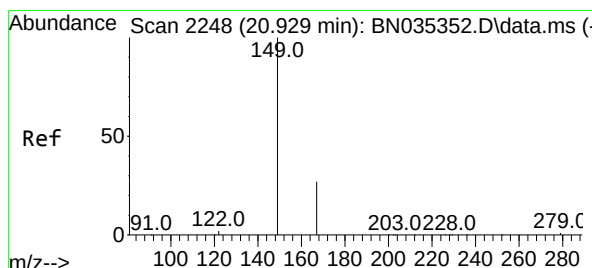
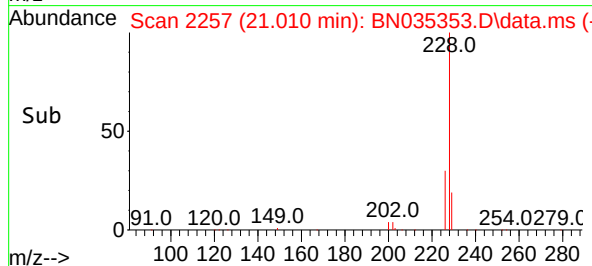
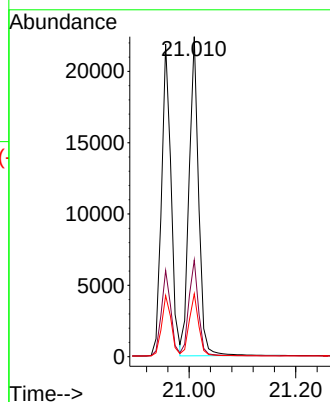
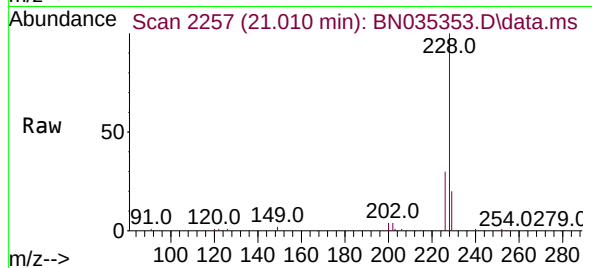
Tgt Ion:228 Resp: 27838

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

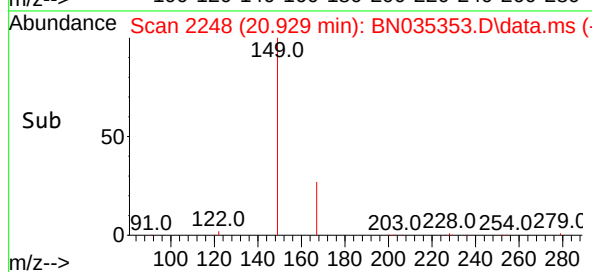
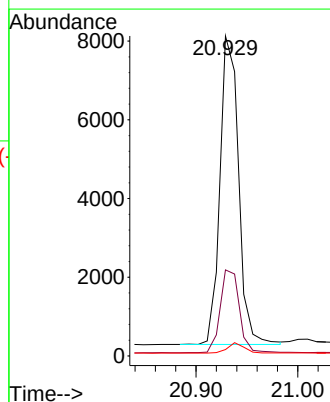
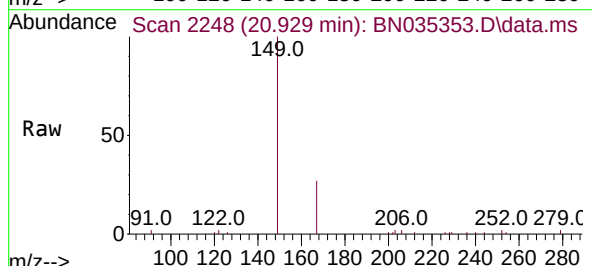
Tgt Ion:149 Resp: 9941

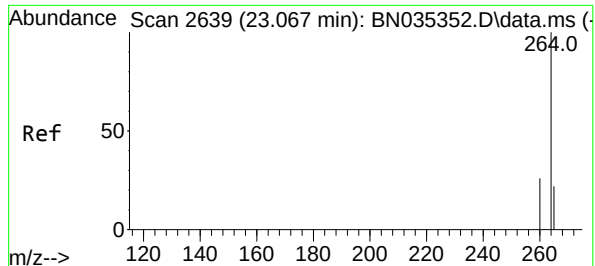
Ion Ratio Lower Upper

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 :

SSTDIC0.8

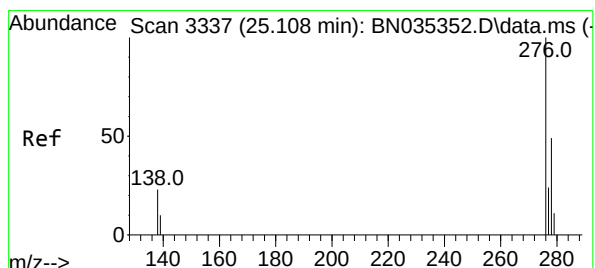
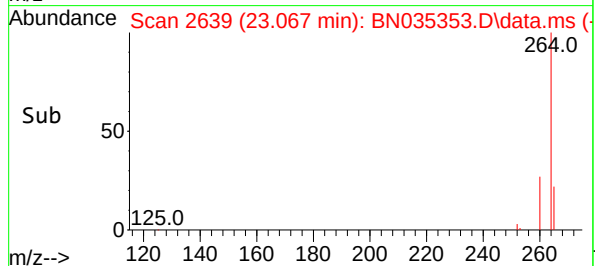
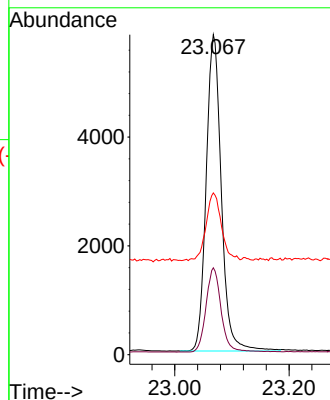
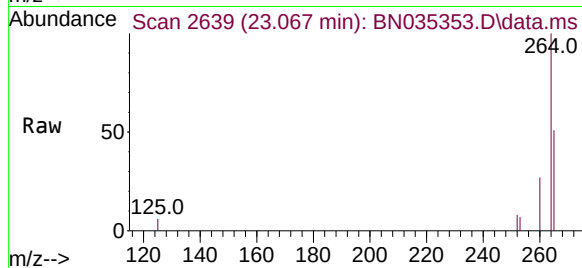
Tgt Ion:264 Resp: 10698

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

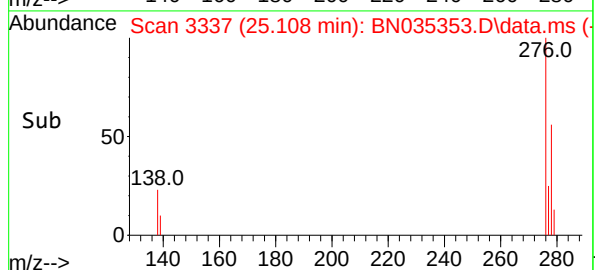
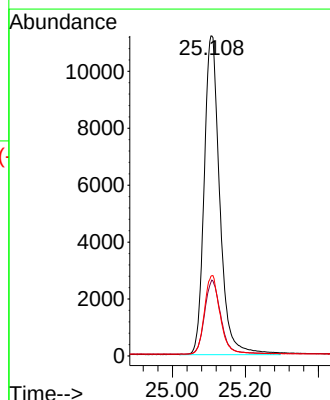
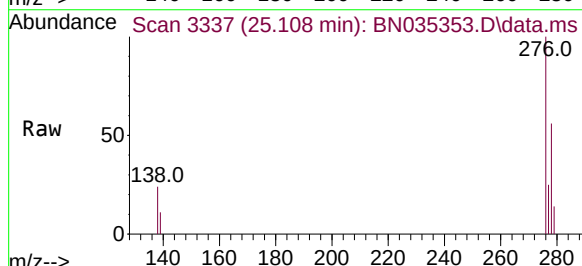
Tgt Ion:276 Resp: 33248

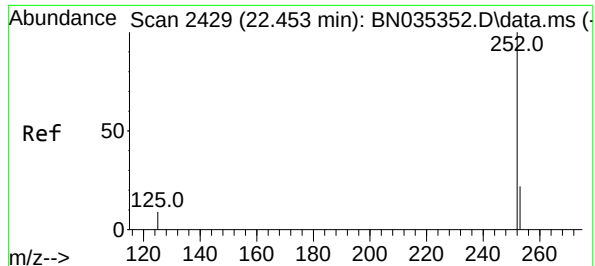
Ion Ratio Lower Upper

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 :

SSTDIC0.8

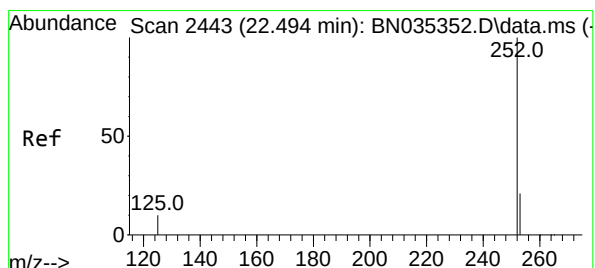
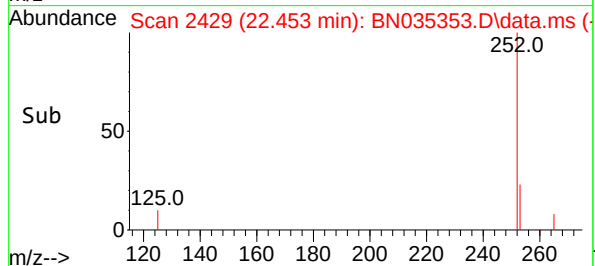
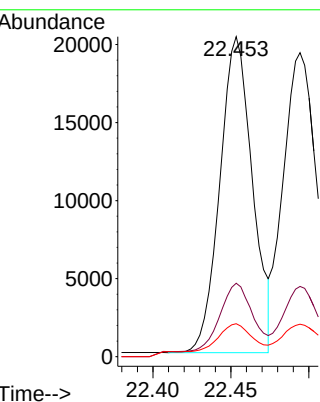
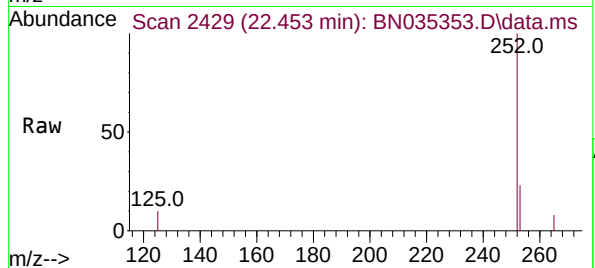
Tgt Ion:252 Resp: 29491

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

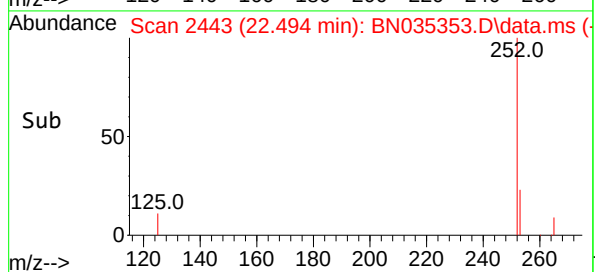
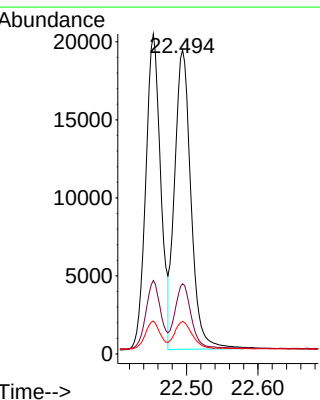
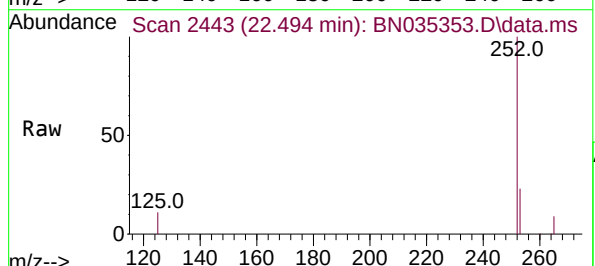
Tgt Ion:252 Resp: 30369

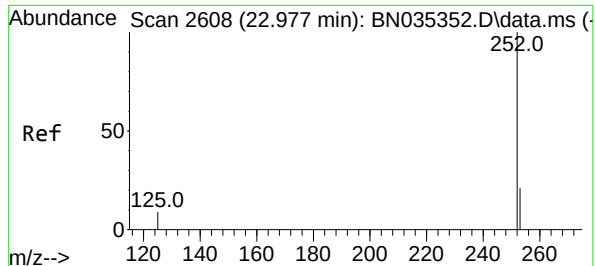
Ion Ratio Lower Upper

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

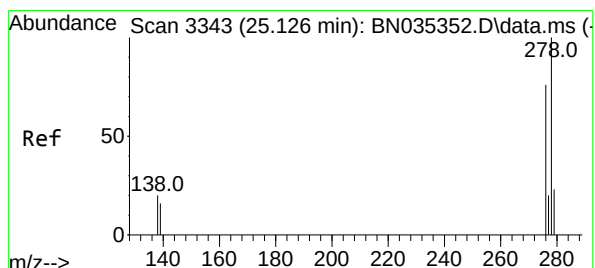
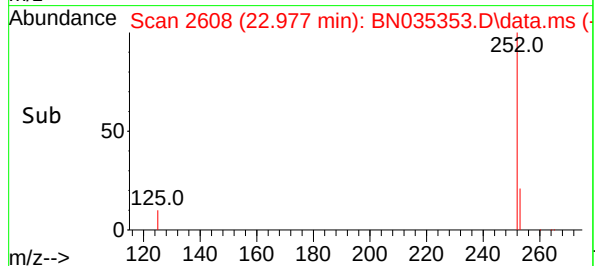
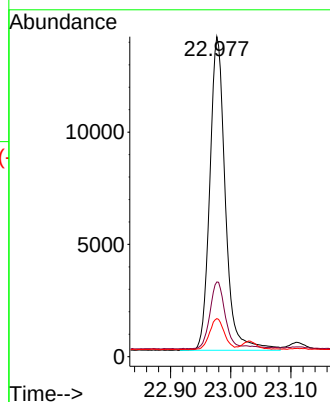
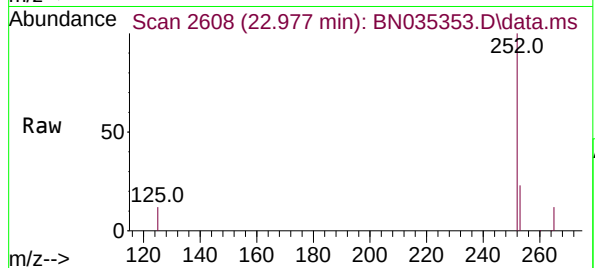
Tgt Ion:252 Resp: 25053

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

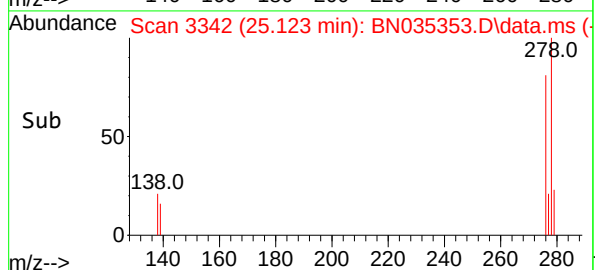
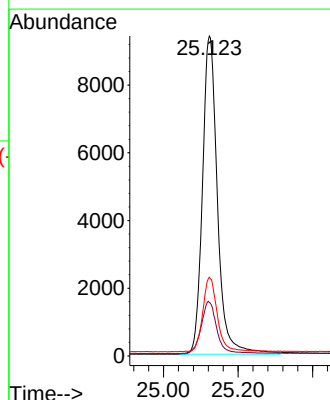
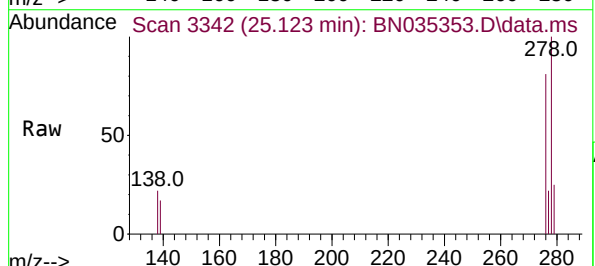
Tgt Ion:278 Resp: 26222

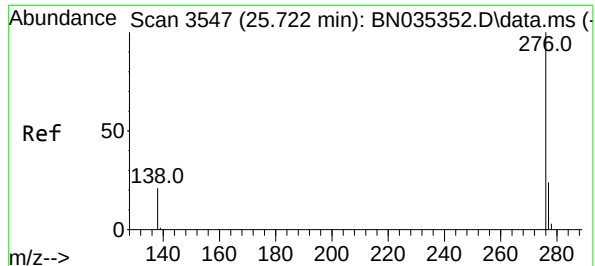
Ion Ratio Lower Upper

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

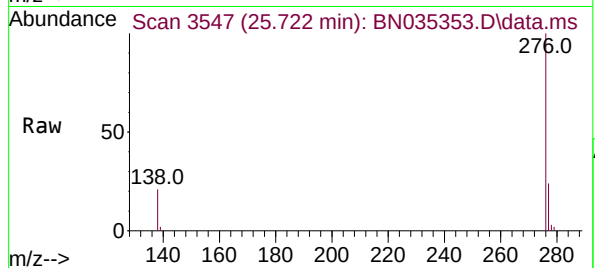
Acq: 27 Nov 2024 17:21

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8



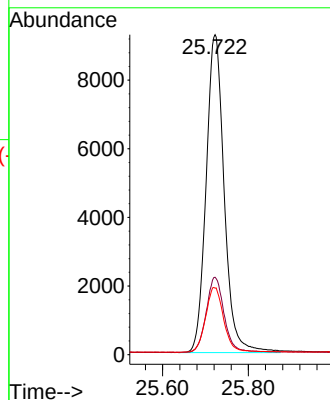
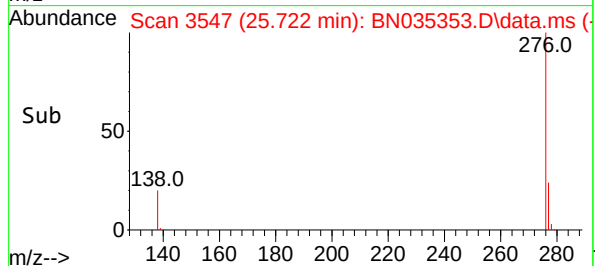
Tgt Ion:276 Resp: 27143

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

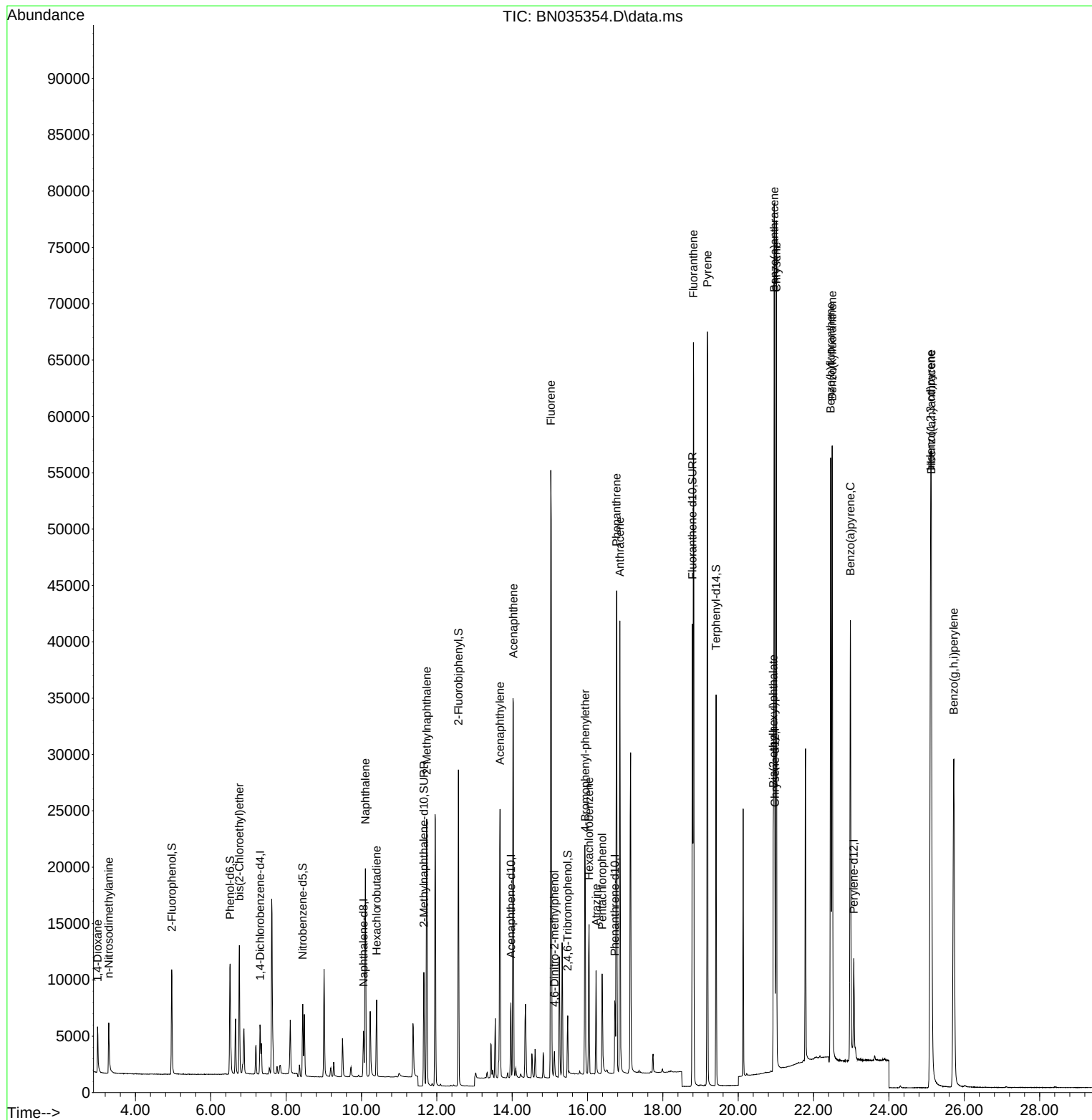
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.308  | 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       |

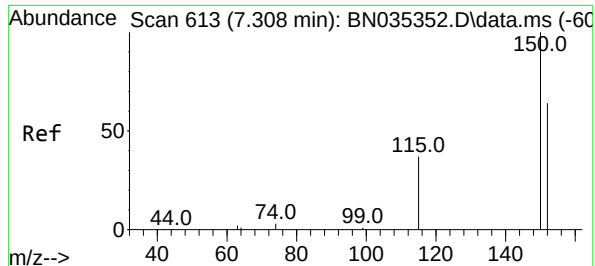
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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

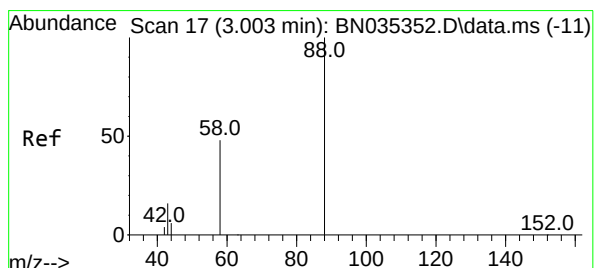
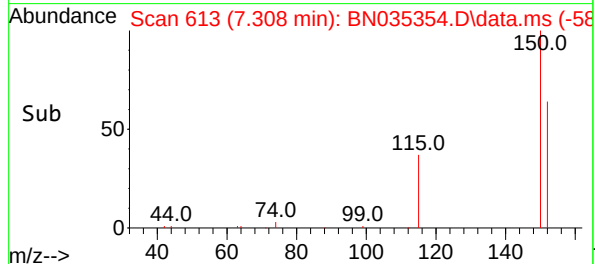
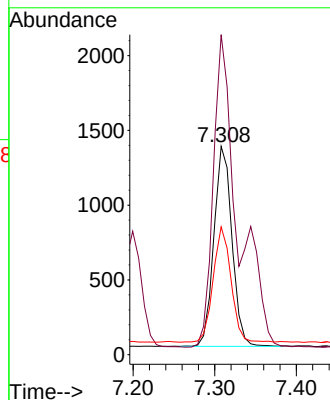
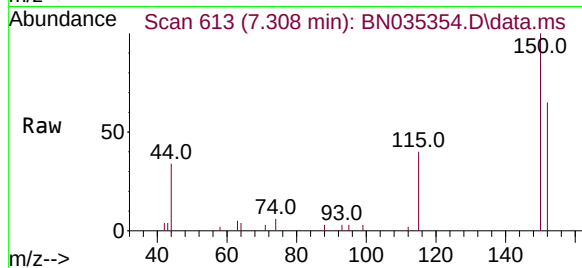




#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.308 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: BN035354.D  
Acq: 27 Nov 2024 17:57

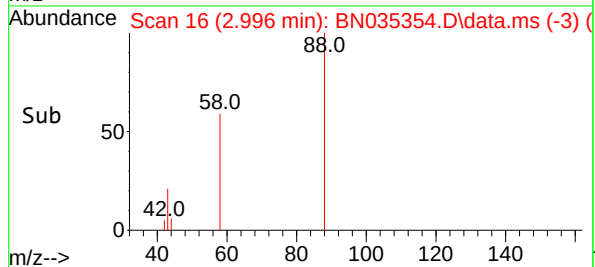
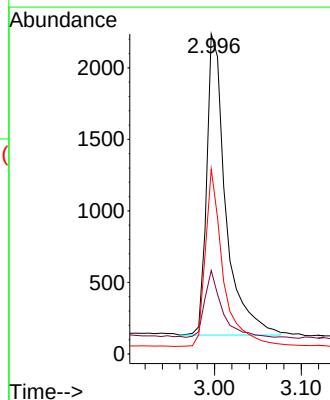
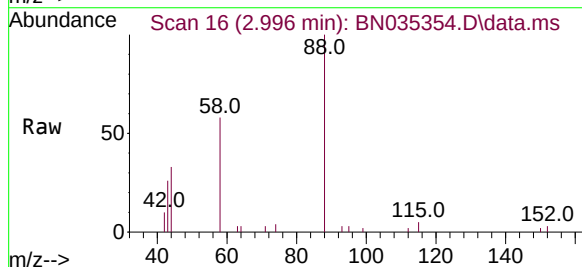
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

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

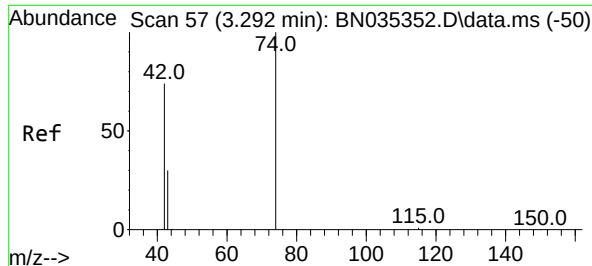


#2  
1,4-Dioxane  
Concen: 1.727 ng  
RT: 2.996 min Scan# 16  
Delta R.T. -0.007 min  
Lab File: BN035354.D  
Acq: 27 Nov 2024 17:57

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



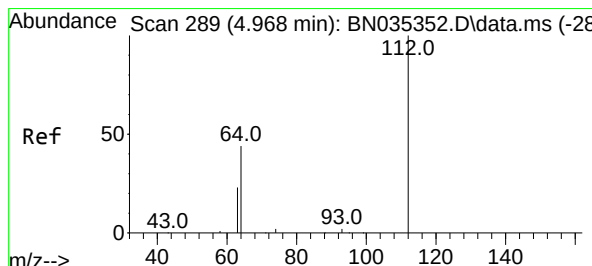
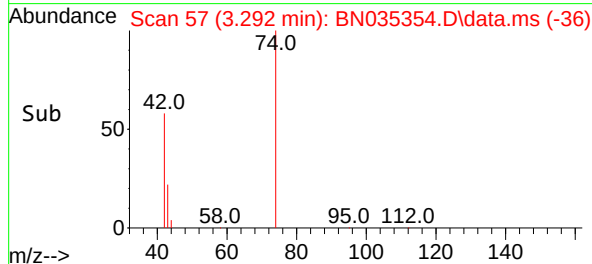
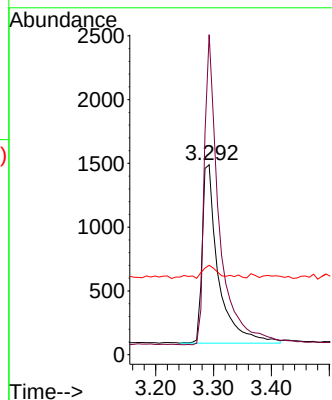
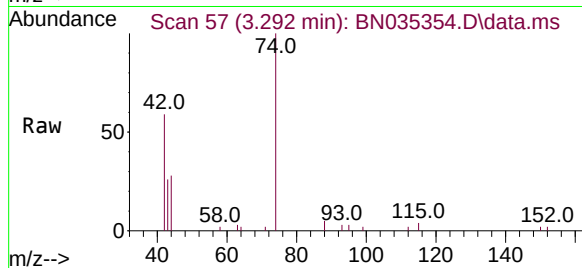




#3  
n-Nitrosodimethylamine  
Concen: 1.570 ng  
RT: 3.292 min Scan# 51  
Delta R.T. 0.000 min  
Lab File: BN035354.D  
Acq: 27 Nov 2024 17:57

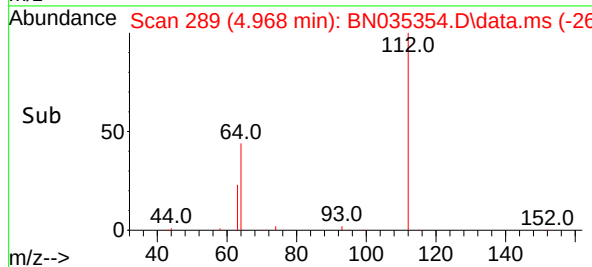
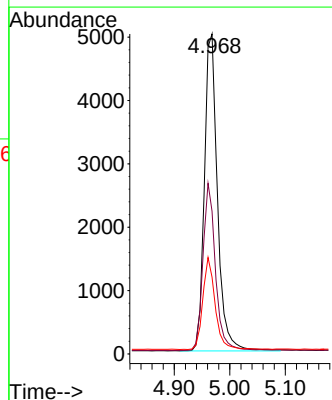
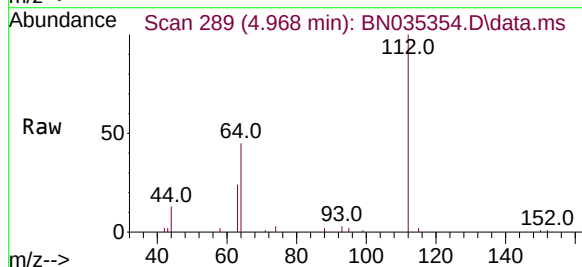
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

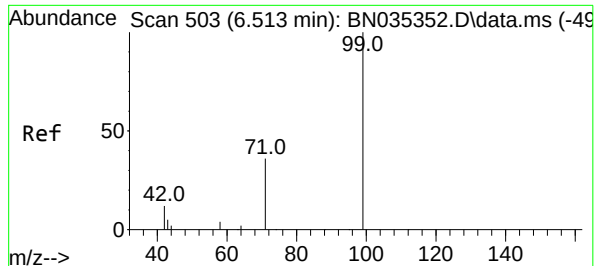
Tgt Ion: 42 Resp: 2729  
Ion Ratio Lower Upper  
42 100  
74 160.4 124.9 187.3  
44 6.2 2.2 3.4#



#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

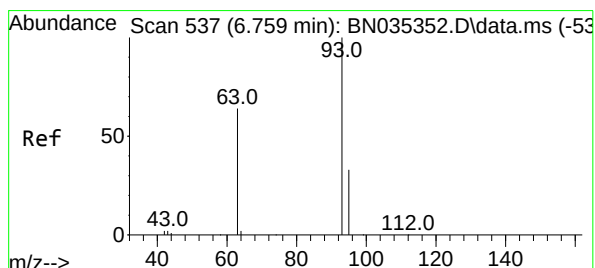
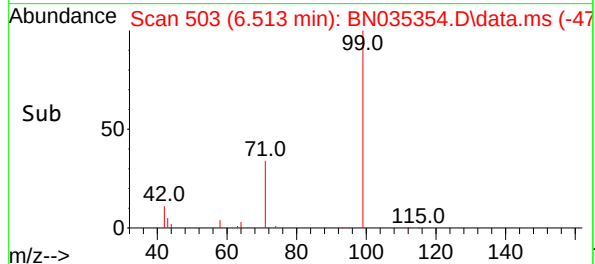
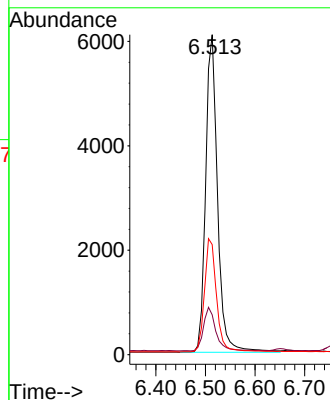
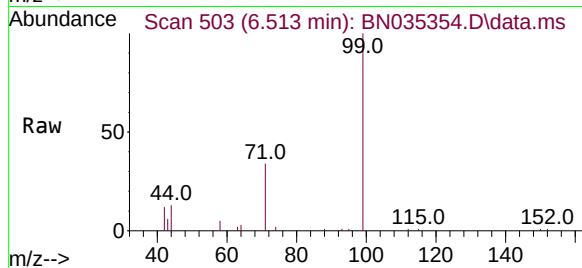




#5  
Phenol-d6  
Concen: 1.552 ng  
RT: 6.513 min Scan# 503  
Delta R.T. 0.000 min  
Lab File: BN035354.D  
Acq: 27 Nov 2024 17:57

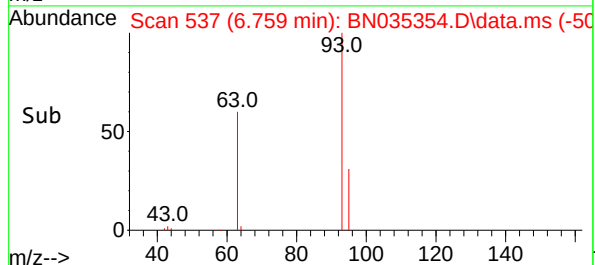
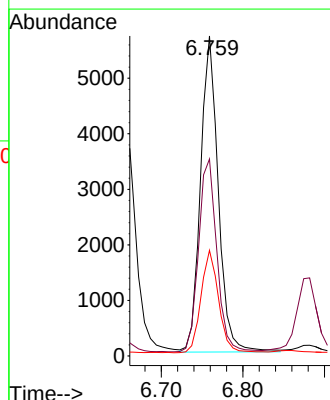
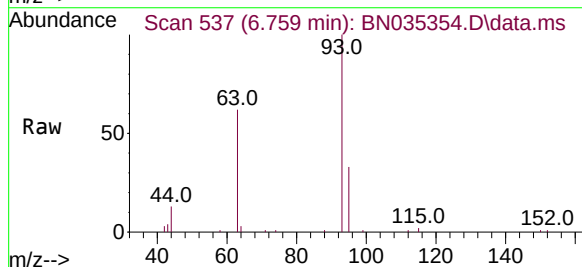
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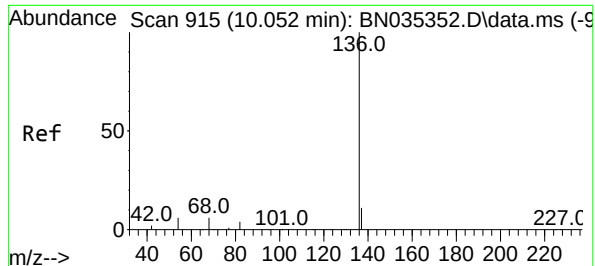
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 99      | 100   |       |       |
| 42      | 14.5  | 11.4  | 17.2  |
| 71      | 36.3  | 29.3  | 43.9  |



#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 | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 93      | 100   |       |       |
| 63      | 62.6  | 50.4  | 75.6  |
| 95      | 32.2  | 25.7  | 38.5  |

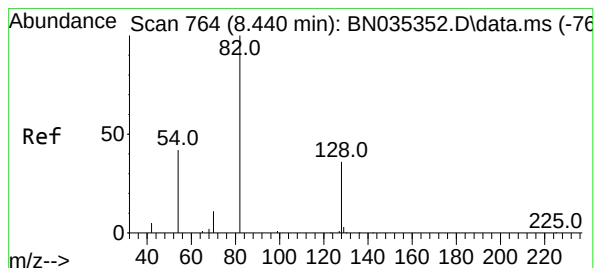
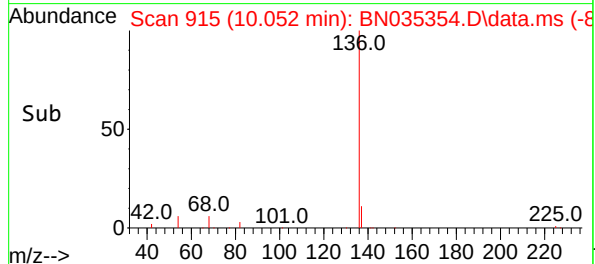
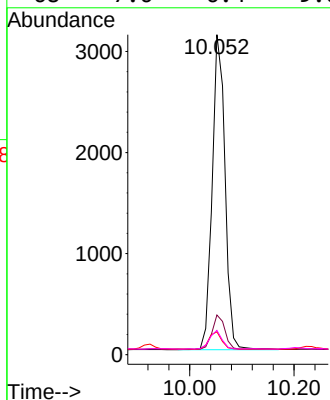
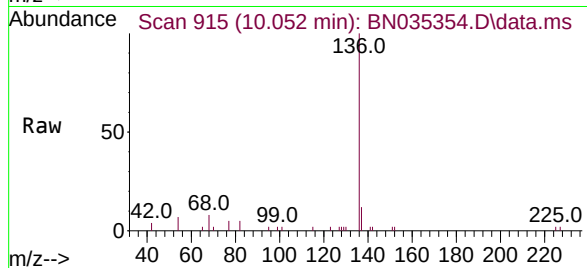




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.052 min Scan# 915  
Delta R.T. 0.000 min  
Lab File: BN035354.D  
Acq: 27 Nov 2024 17:57

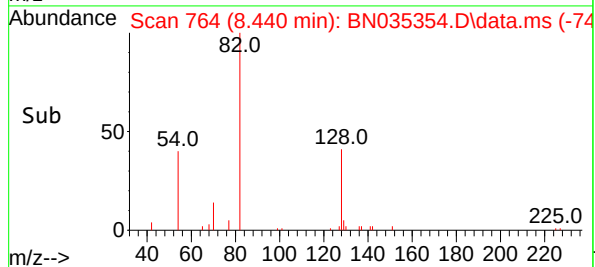
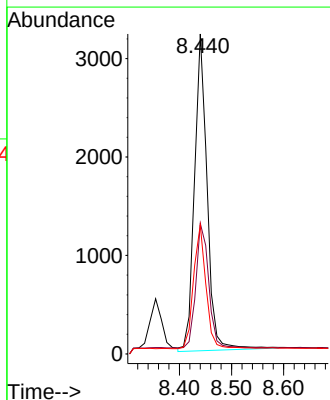
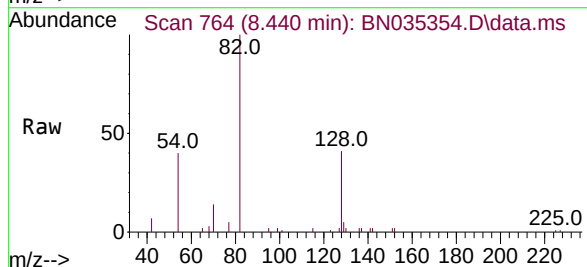
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ClientSampleId :  
SSTDICC1.6

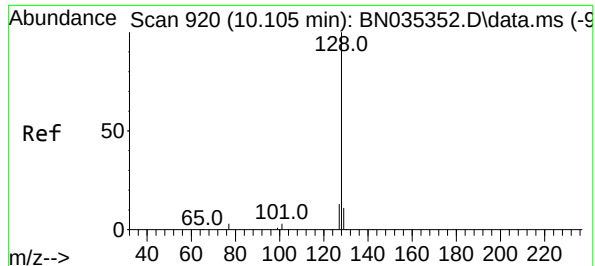
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 5309  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 12.4  | 10.2  | 15.2  |
| 54       | 7.2   | 6.1   | 9.1   |
| 68       | 7.6   | 6.4   | 9.6   |



#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  |

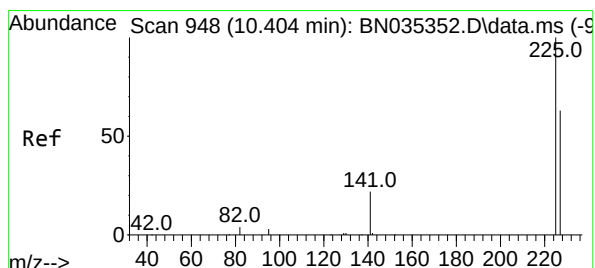
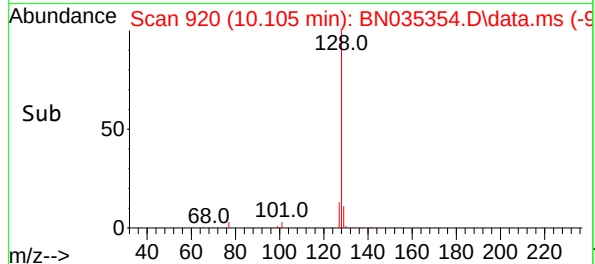
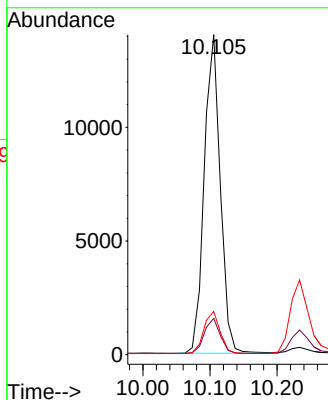
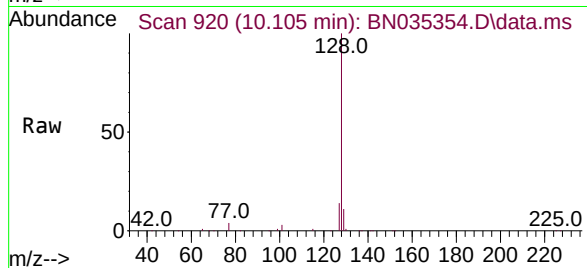




#9  
Naphthalene  
Concen: 1.680 ng  
RT: 10.105 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: BN035354.D  
Acq: 27 Nov 2024 17:57

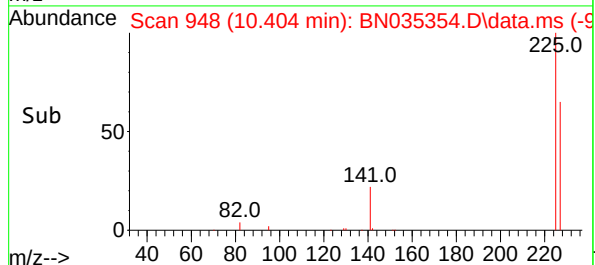
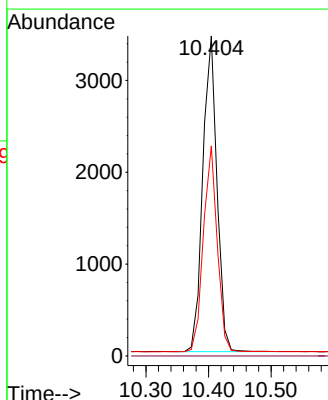
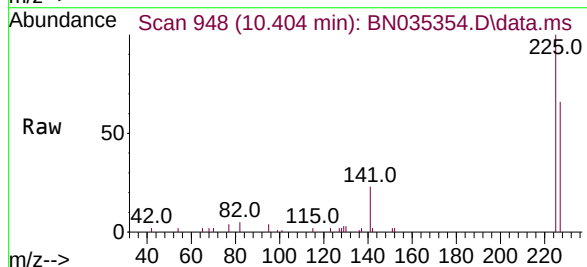
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

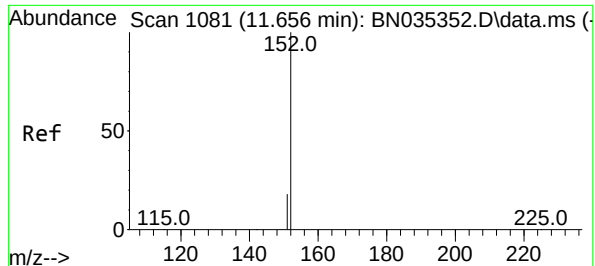
Tgt Ion:128 Resp: 23280  
Ion Ratio Lower Upper  
128 100  
129 11.4 9.8 14.6  
127 13.5 11.4 17.2



#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

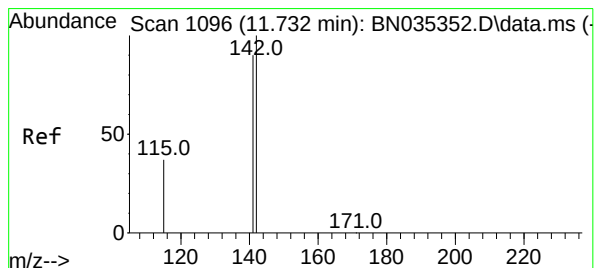
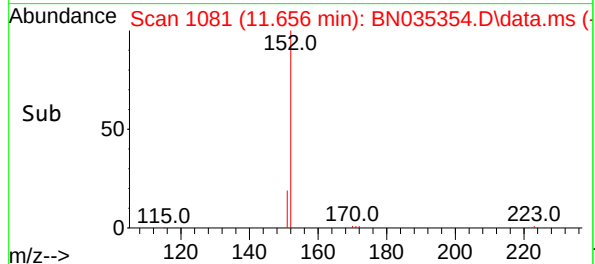
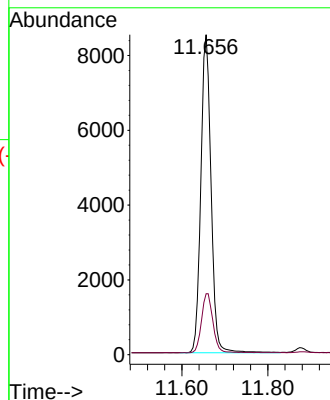
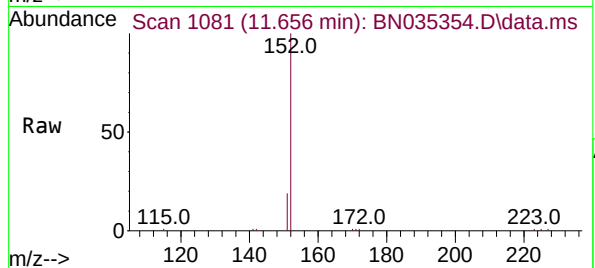




#11  
2-Methylnaphthalene-d10  
Concen: 1.478 ng  
RT: 11.656 min Scan# 1081  
Delta R.T. 0.000 min  
Lab File: BN035354.D  
Acq: 27 Nov 2024 17:57

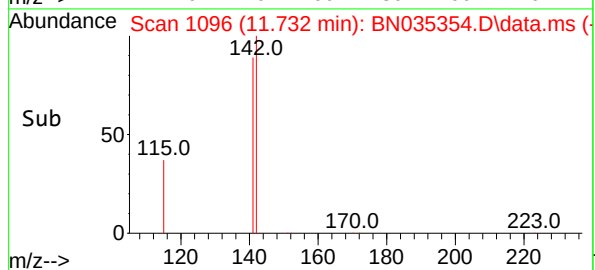
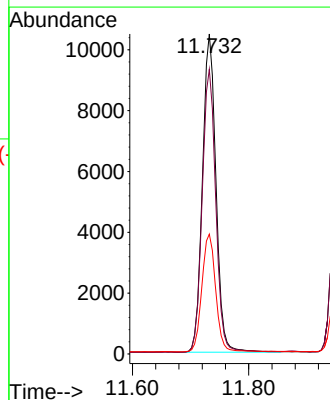
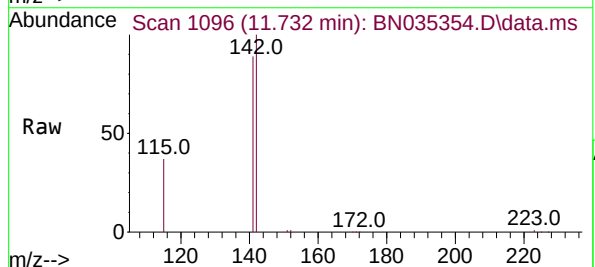
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

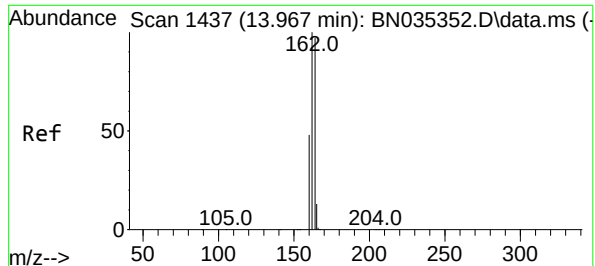
Tgt Ion:152 Resp: 13988  
Ion Ratio Lower Upper  
152 100  
151 20.5 16.6 25.0



#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

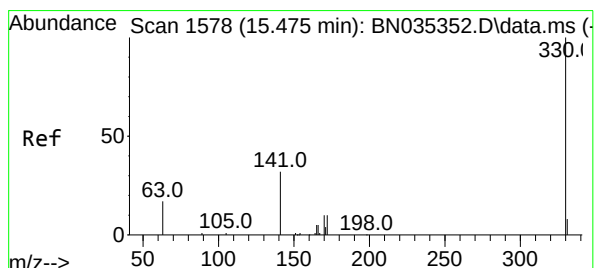
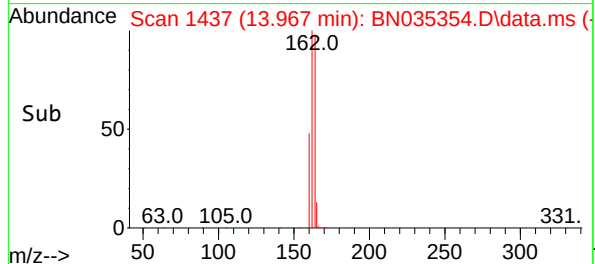
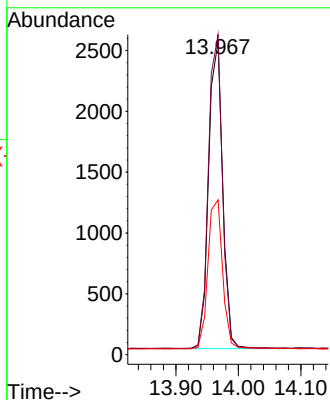
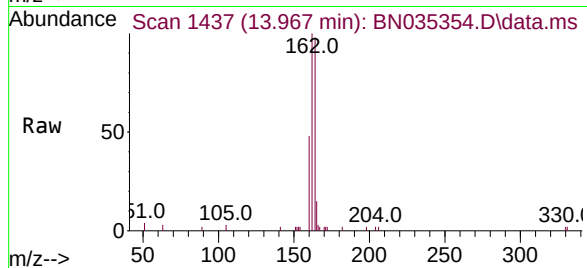




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.967 min Scan# 1437  
Delta R.T. 0.000 min  
Lab File: BN035354.D  
Acq: 27 Nov 2024 17:57

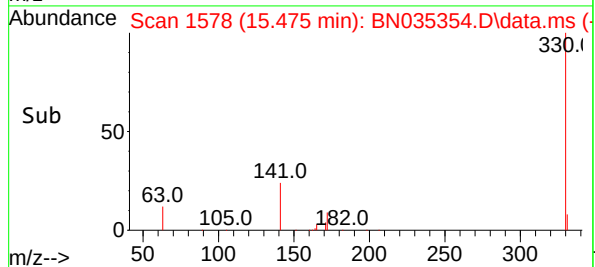
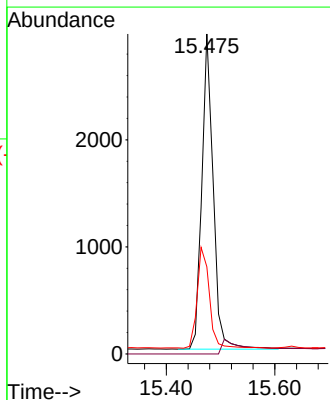
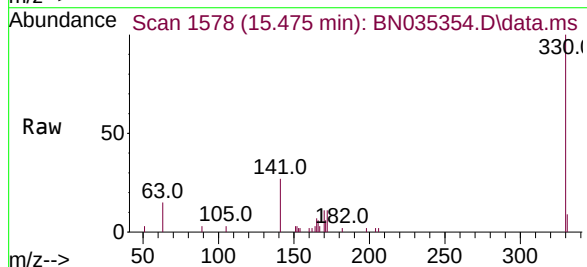
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

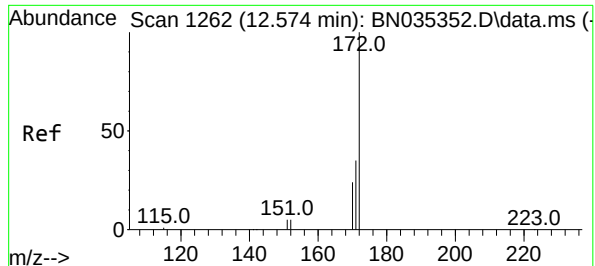
Tgt Ion:164 Resp: 3942  
Ion Ratio Lower Upper  
164 100  
162 102.2 82.2 123.2  
160 49.5 40.1 60.1



#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

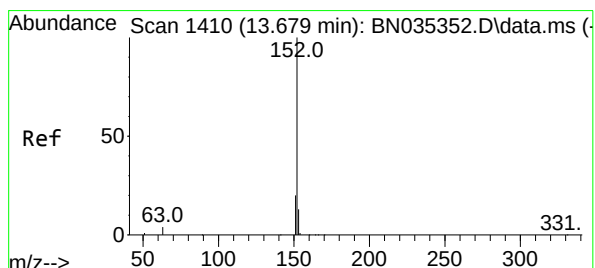
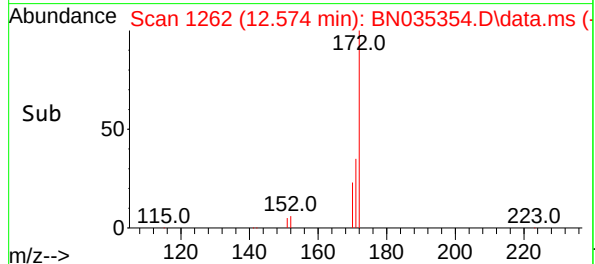
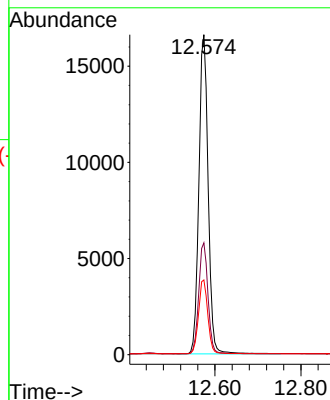
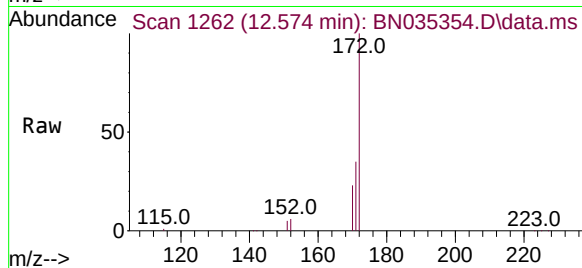




#15  
2-Fluorobiphenyl  
Concen: 1.542 ng  
RT: 12.574 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: BN035354.D  
Acq: 27 Nov 2024 17:57

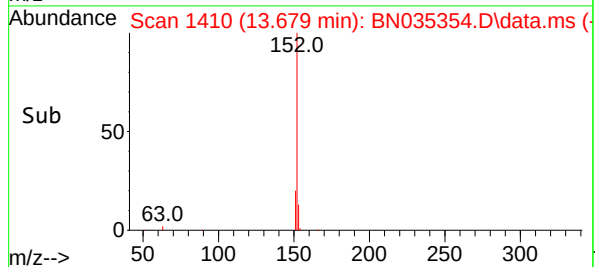
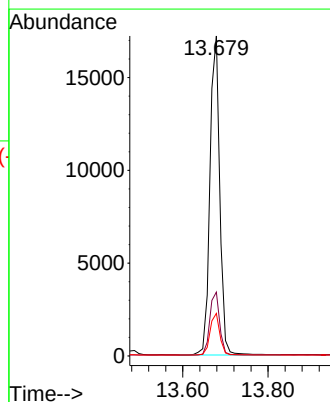
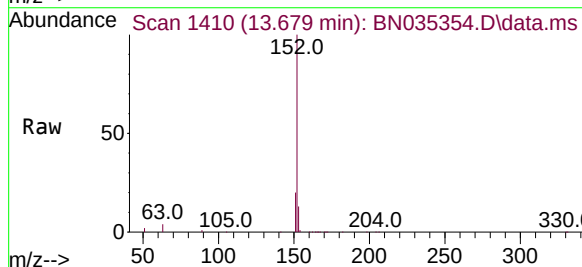
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

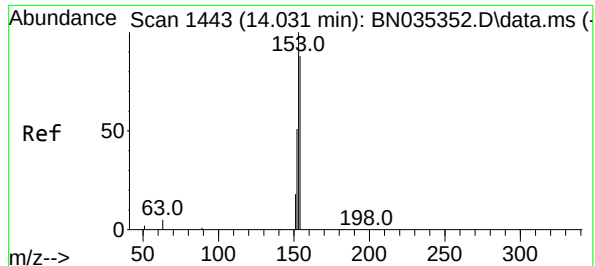
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 172   | Resp: | 24687 |
| Ion      | Ratio | Lower | Upper |
| 172      | 100   |       |       |
| 171      | 35.0  | 29.0  | 43.4  |
| 170      | 23.4  | 19.8  | 29.8  |



#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: | 152   | Resp: | 27389 |
| 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

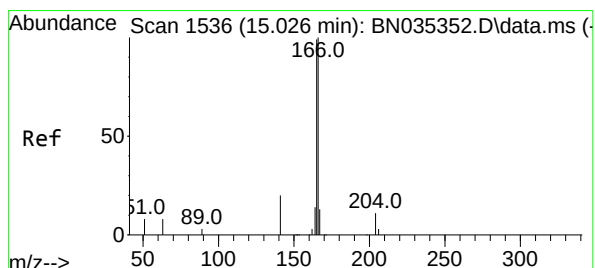
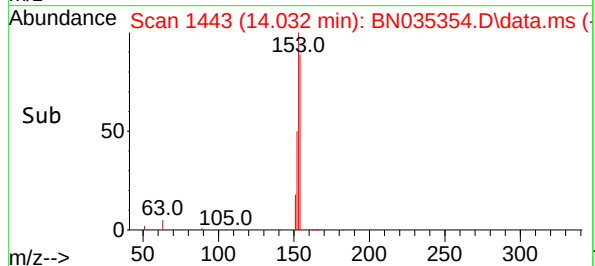
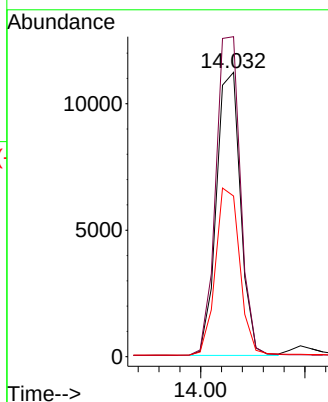
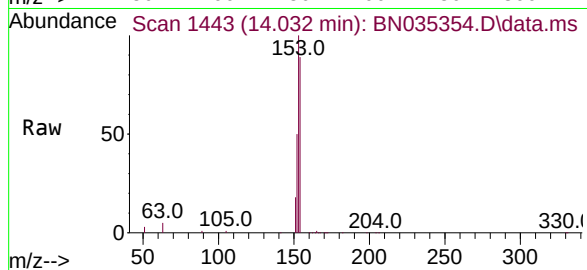
Tgt Ion:154 Resp: 18061

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

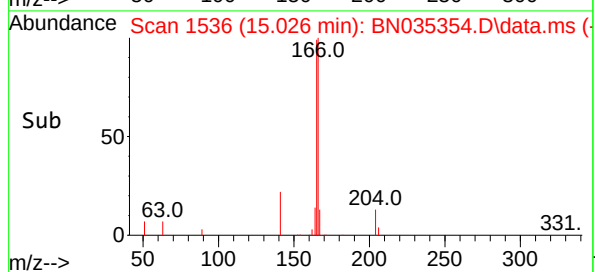
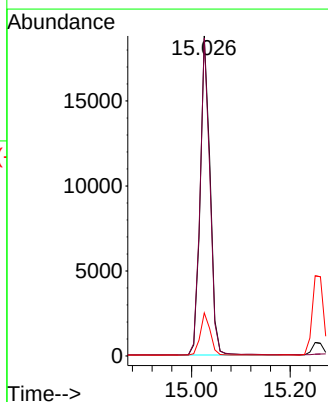
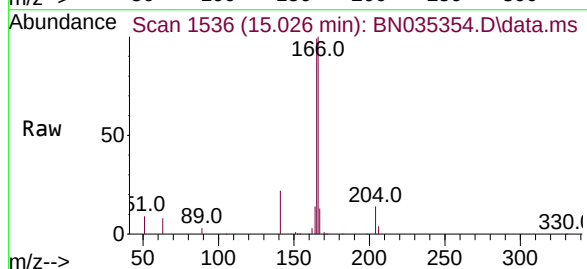
Tgt Ion:166 Resp: 26044

Ion Ratio Lower Upper

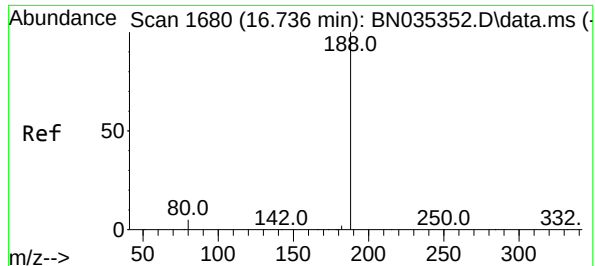
166 100

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

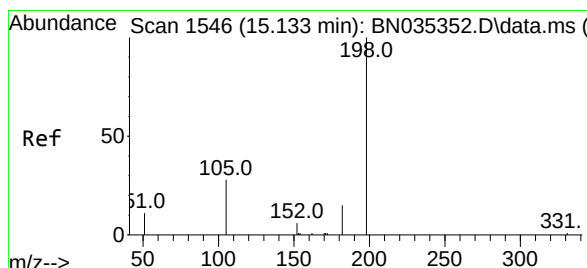
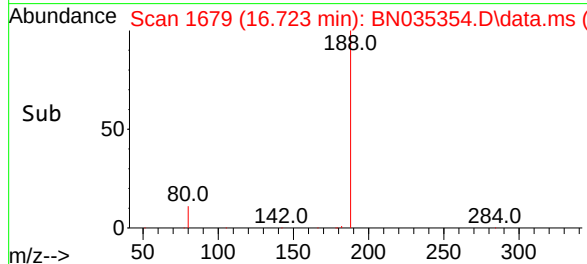
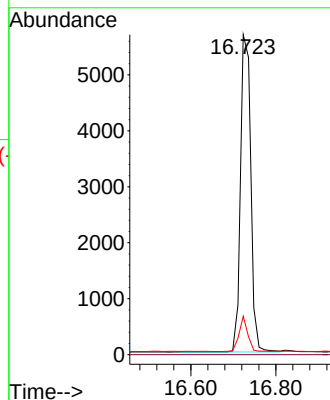
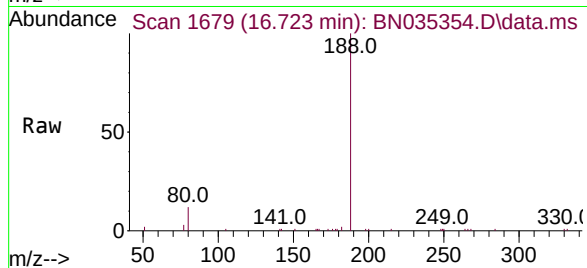
Tgt Ion:188 Resp: 9517

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

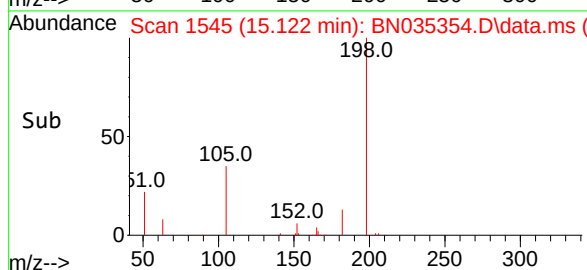
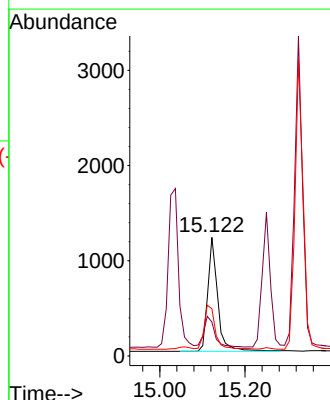
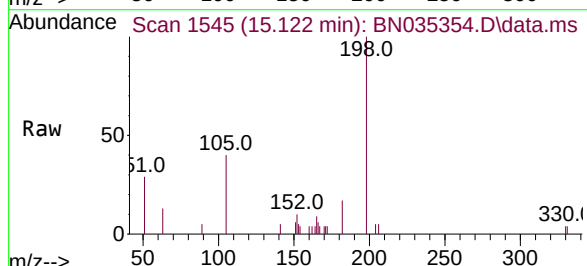
Tgt Ion:198 Resp: 1947

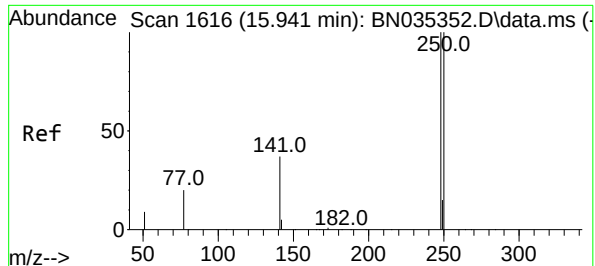
Ion Ratio Lower Upper

198 100

51 28.6 46.5 69.7#

105 39.8 45.3 67.9#

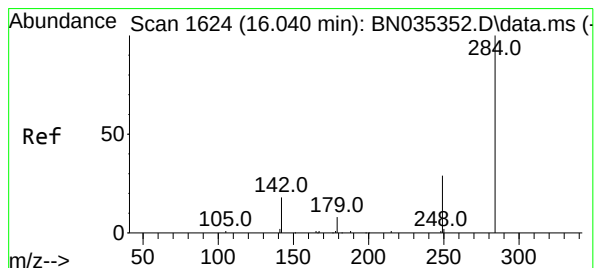
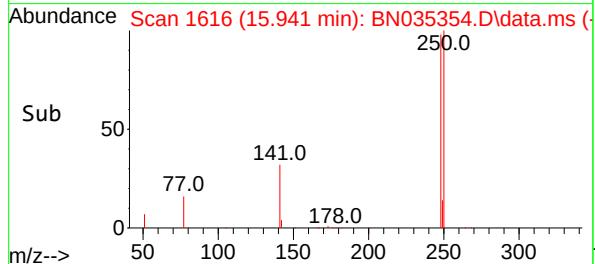
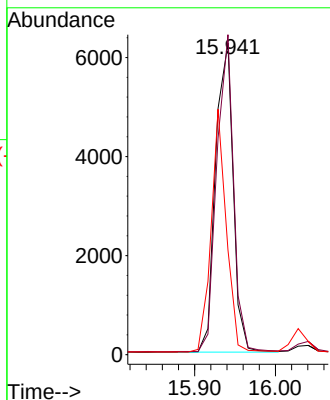
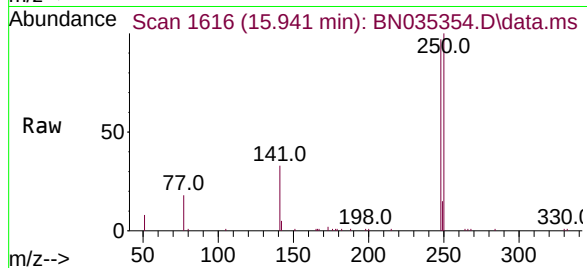




#21  
4-Bromophenyl-phenylether  
Concen: 1.566 ng  
RT: 15.941 min Scan# 1616  
Delta R.T. 0.000 min  
Lab File: BN035354.D  
Acq: 27 Nov 2024 17:57

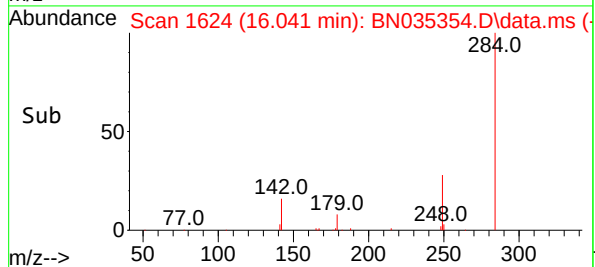
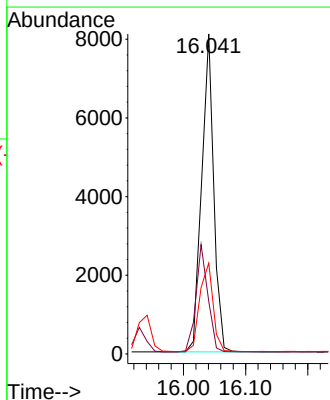
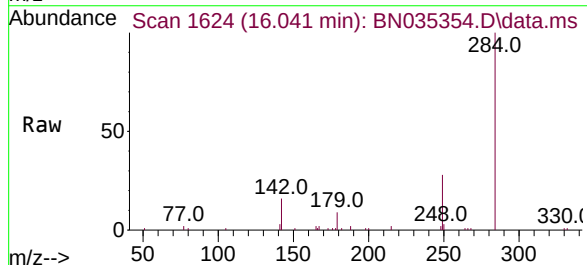
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

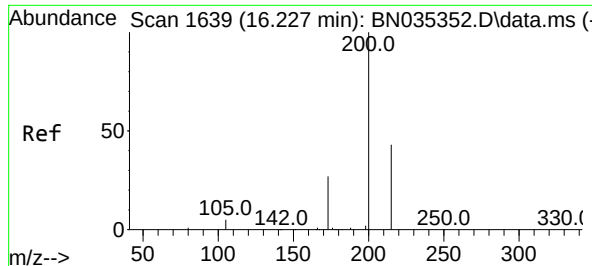
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 248     | 100   |       |       |
| 250     | 102.7 | 80.6  | 120.8 |
| 141     | 33.7  | 31.5  | 47.3  |



#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 | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 284     | 100   |       |       |
| 142     | 33.5  | 26.7  | 40.1  |
| 249     | 30.6  | 24.6  | 36.8  |

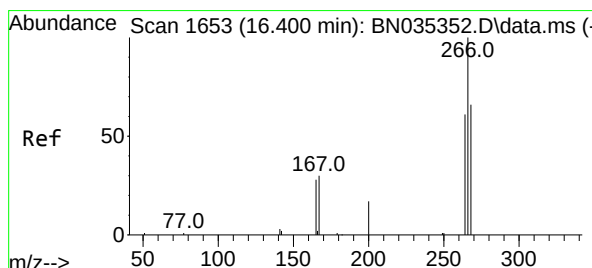
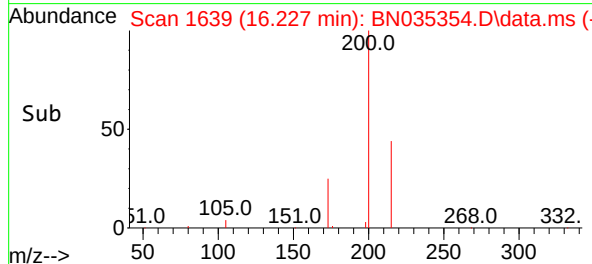
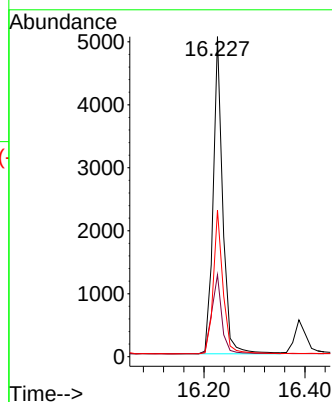
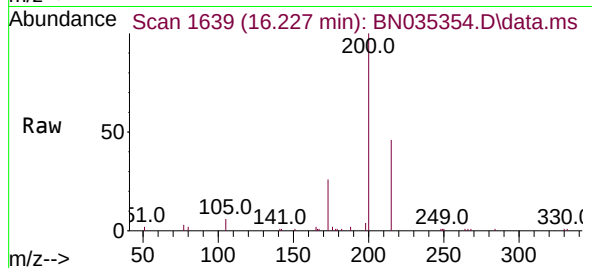




#23  
Atrazine  
Concen: 1.221 ng  
RT: 16.227 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: BN035354.D  
Acq: 27 Nov 2024 17:57

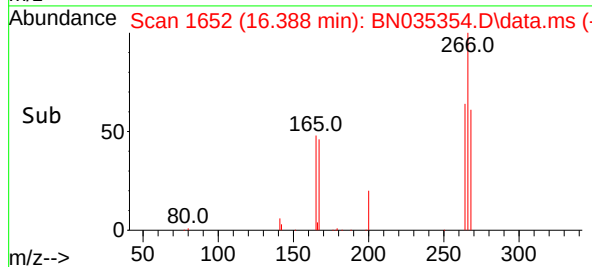
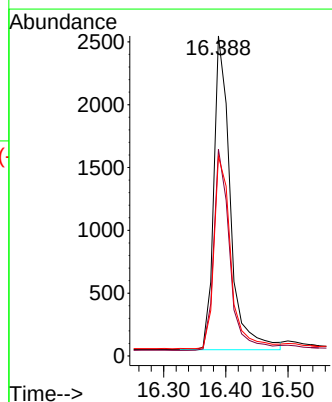
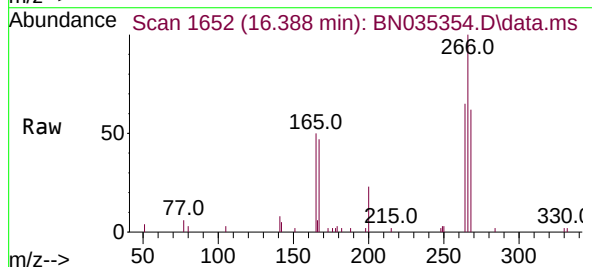
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

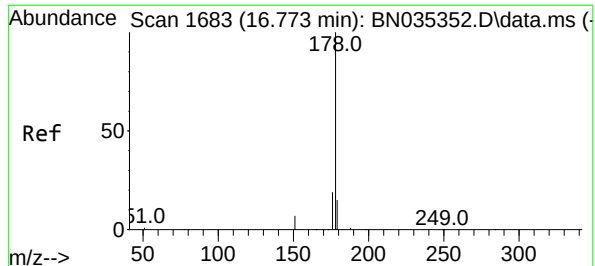
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 200     | 100   |       |       |
| 173     | 25.6  | 24.1  | 36.1  |
| 215     | 45.8  | 36.9  | 55.3  |



#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  |

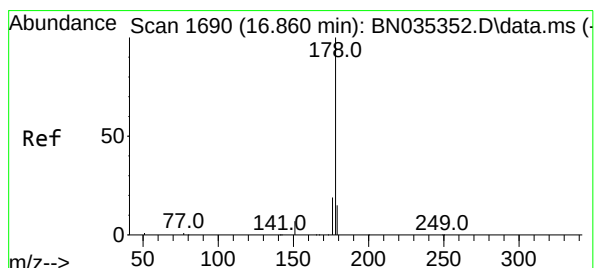
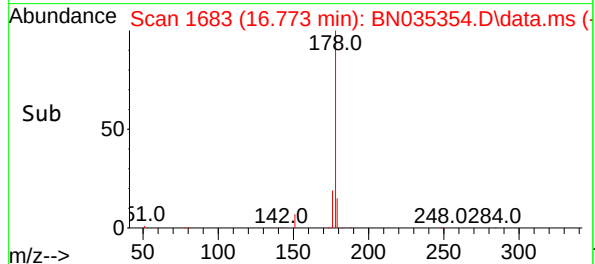
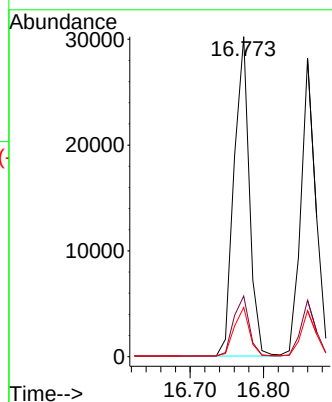
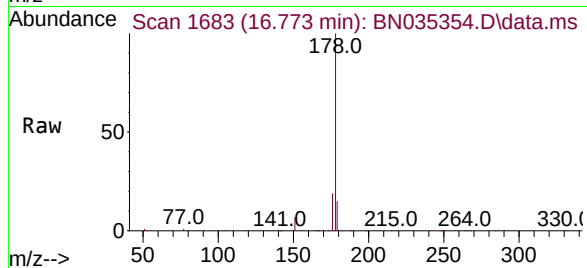




#25  
Phenanthrene  
Concen: 1.745 ng  
RT: 16.773 min Scan# 1683  
Delta R.T. 0.000 min  
Lab File: BN035354.D  
Acq: 27 Nov 2024 17:57

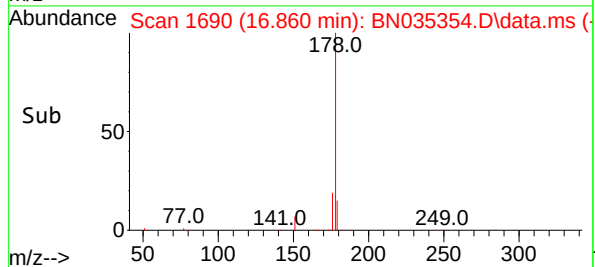
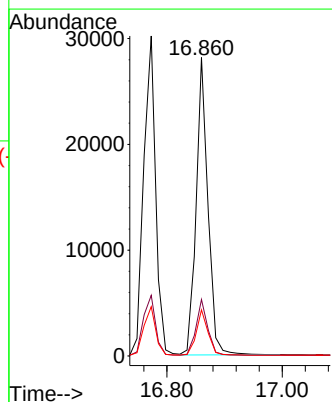
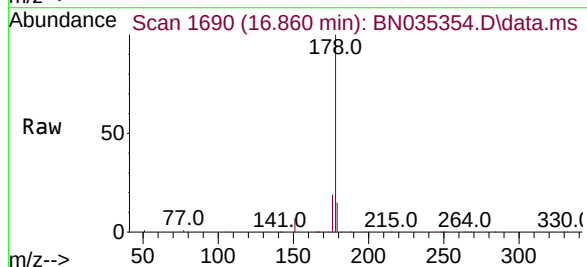
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

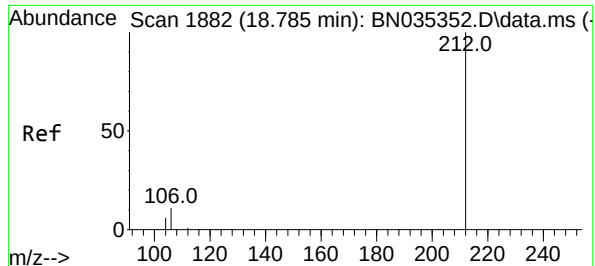
Tgt Ion:178 Resp: 43698  
Ion Ratio Lower Upper  
178 100  
176 19.2 15.4 23.2  
179 15.2 12.3 18.5



#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

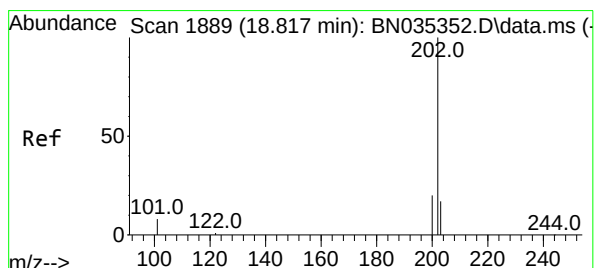
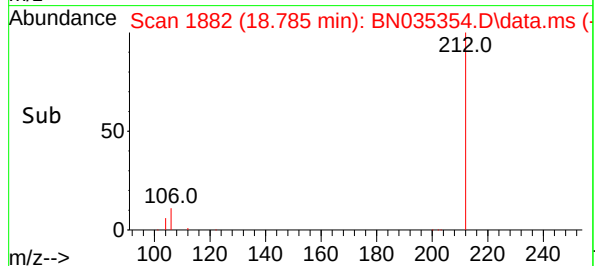
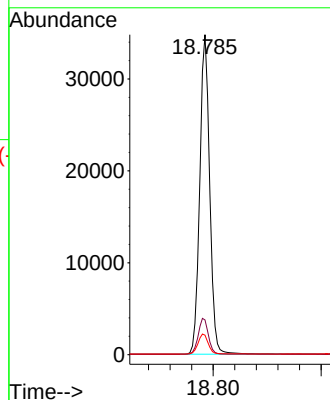
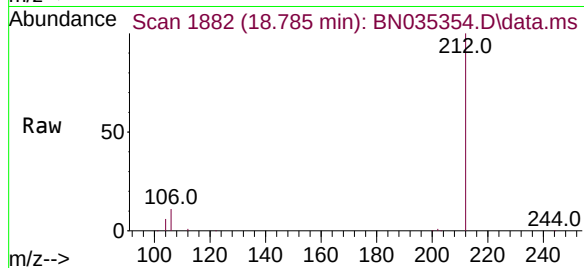
Tgt Ion:212 Resp: 44338

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

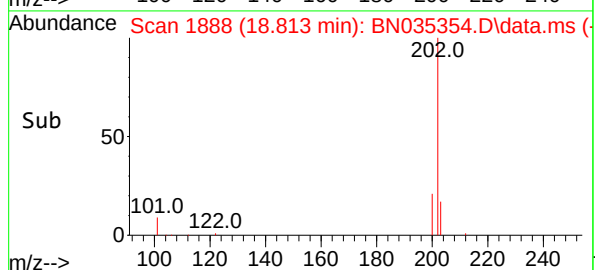
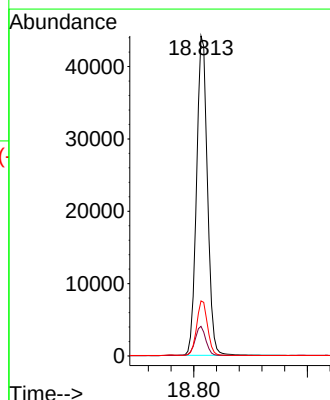
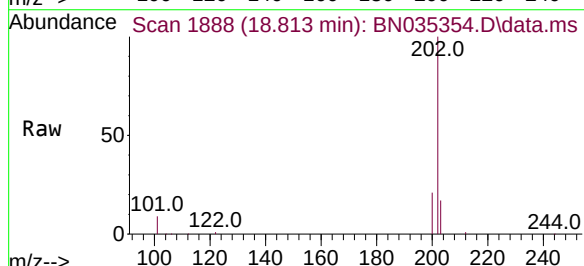
Tgt Ion:202 Resp: 58605

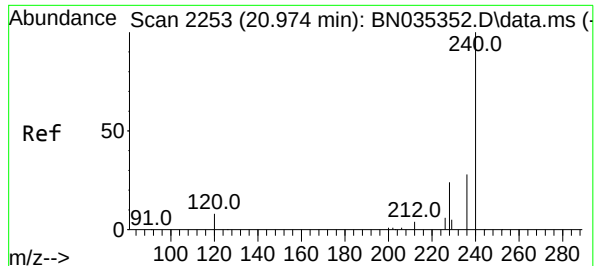
Ion Ratio Lower Upper

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

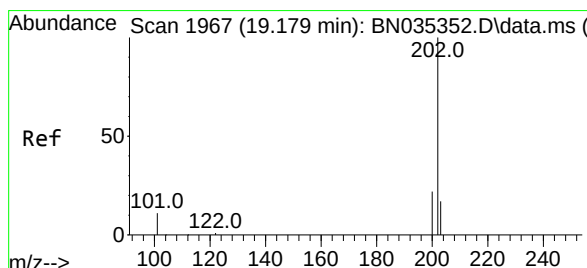
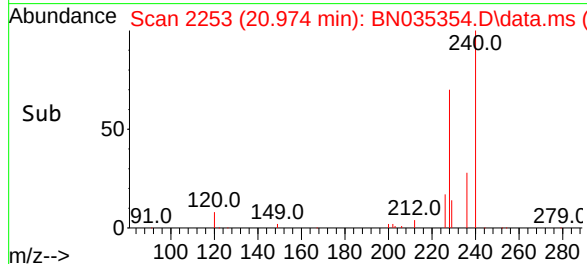
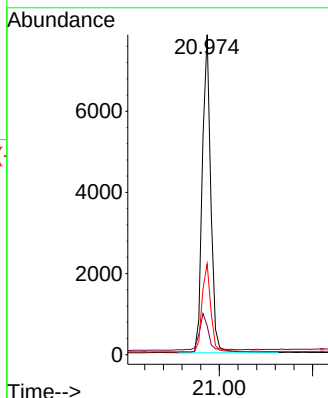
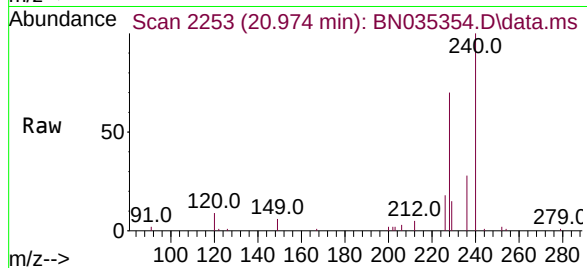
Tgt Ion:240 Resp: 9905

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

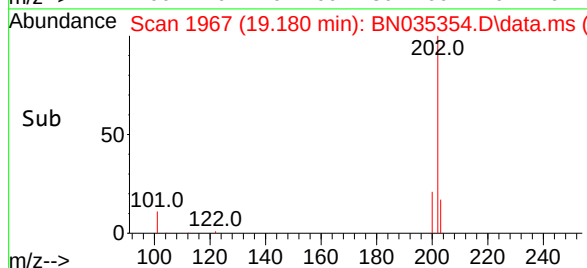
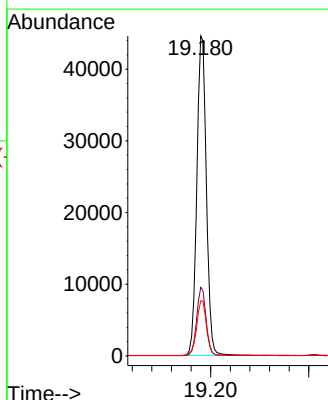
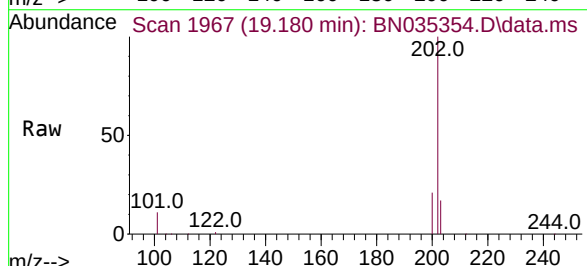
Tgt Ion:202 Resp: 60164

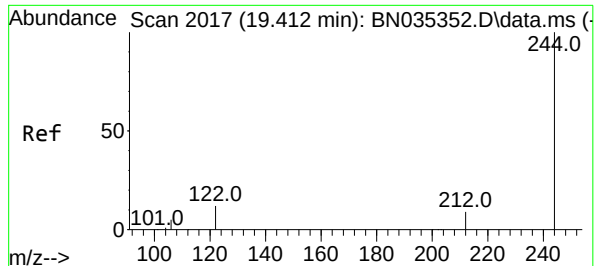
Ion Ratio Lower Upper

202 100

200 21.1 17.0 25.4

203 17.7 14.3 21.5

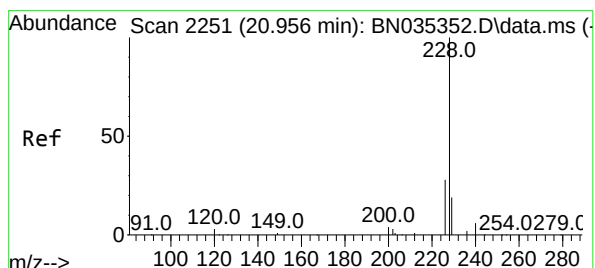
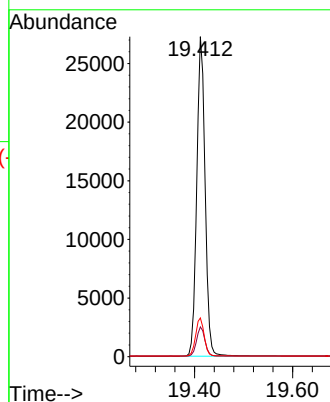
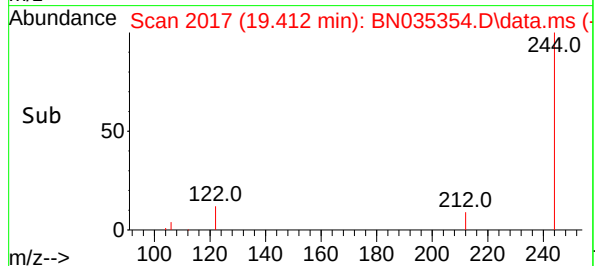
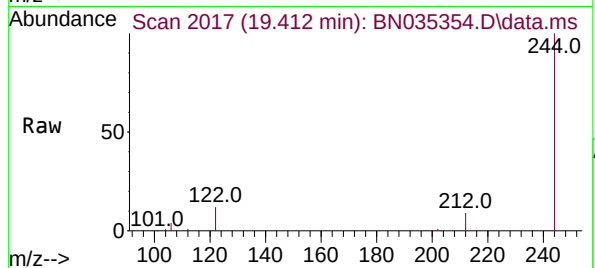




#31  
Terphenyl-d14  
Concen: 1.548 ng  
RT: 19.412 min Scan# 2017  
Delta R.T. 0.000 min  
Lab File: BN035354.D  
Acq: 27 Nov 2024 17:57

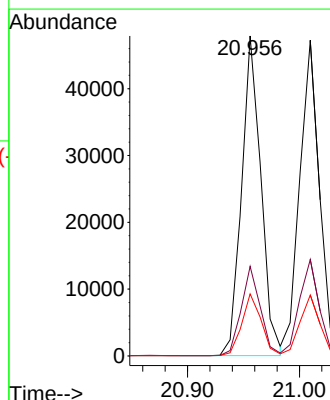
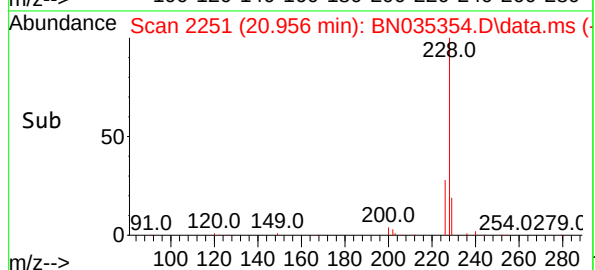
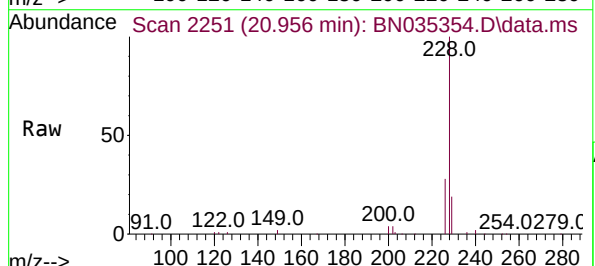
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

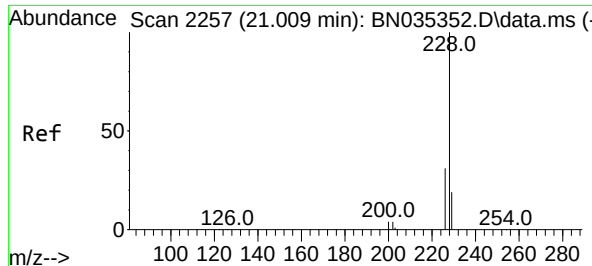
Tgt Ion:244 Resp: 32174  
Ion Ratio Lower Upper  
244 100  
212 9.3 8.1 12.1  
122 12.1 10.3 15.5



#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

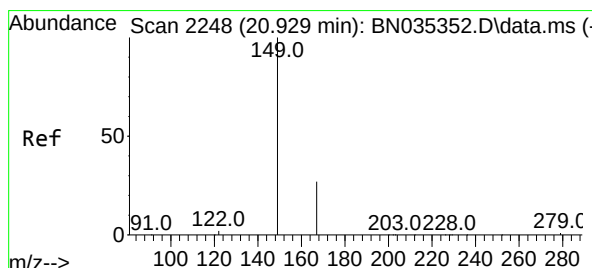
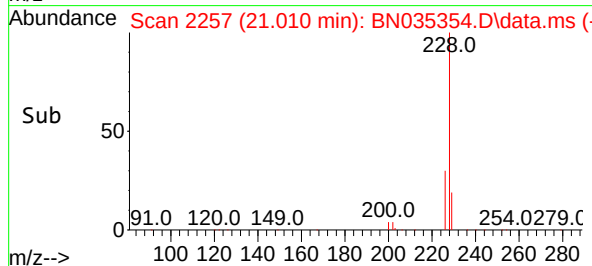
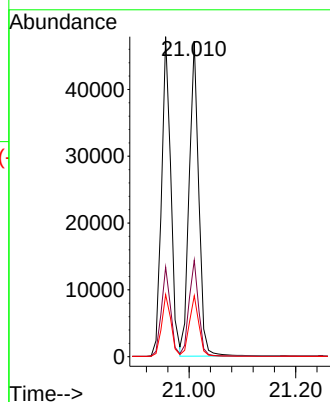
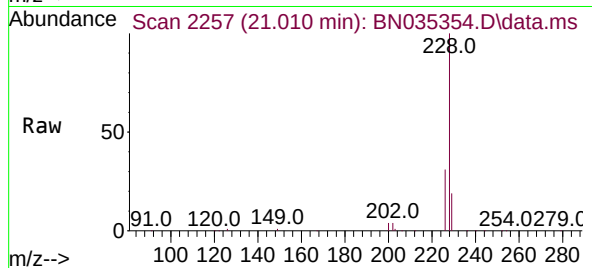
Tgt Ion:228 Resp: 58919

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

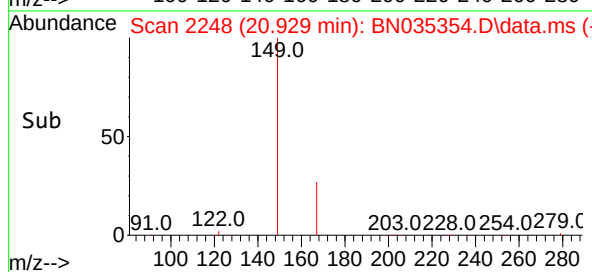
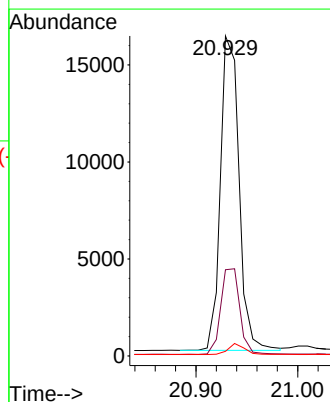
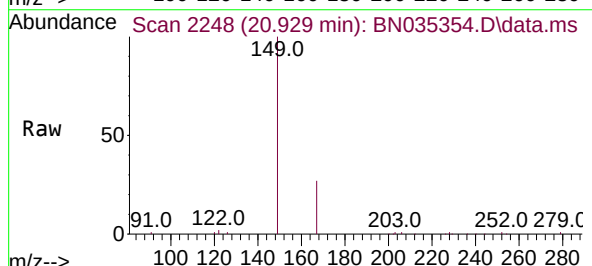
Tgt Ion:149 Resp: 20598

Ion Ratio Lower Upper

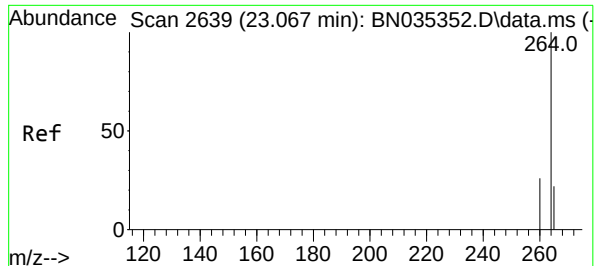
149 100

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

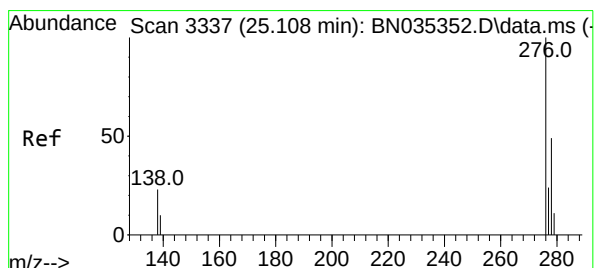
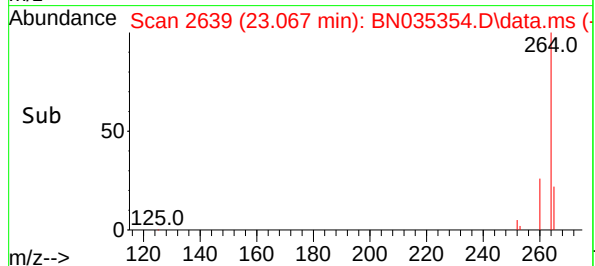
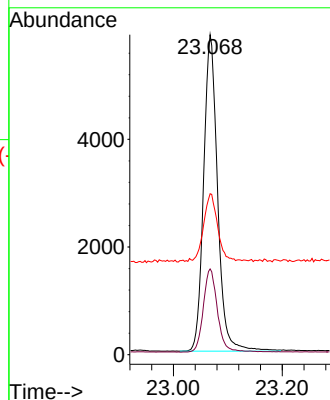
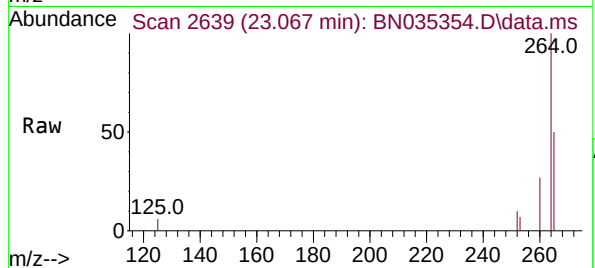
Tgt Ion:264 Resp: 10469

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

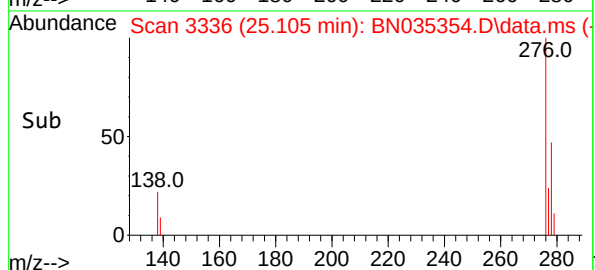
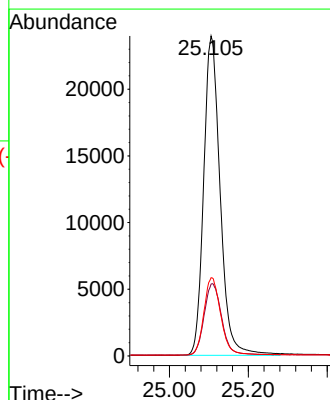
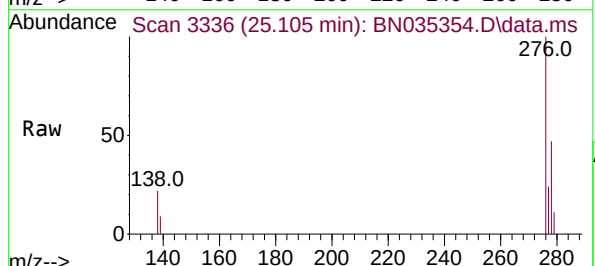
Tgt Ion:276 Resp: 69517

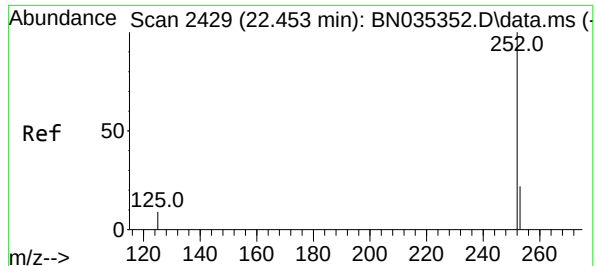
Ion Ratio Lower Upper

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

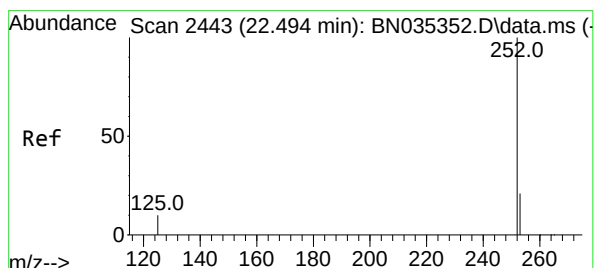
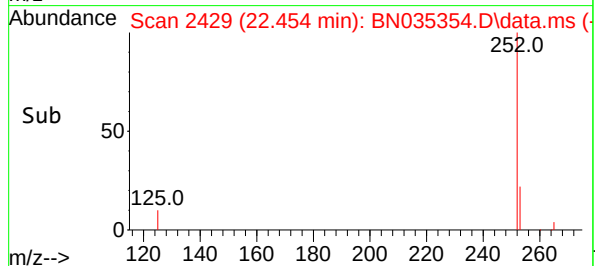
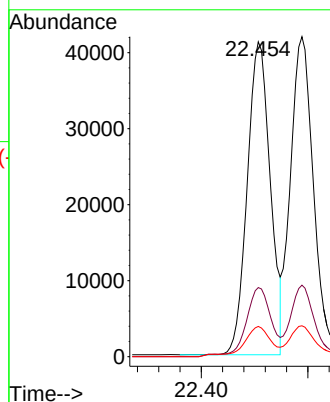
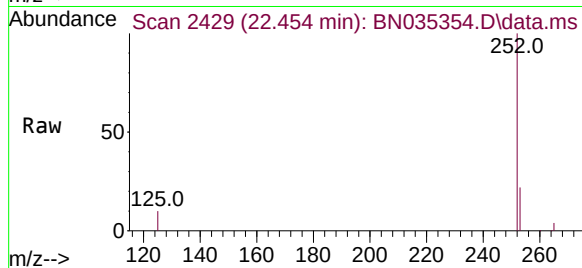
Tgt Ion:252 Resp: 76506

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

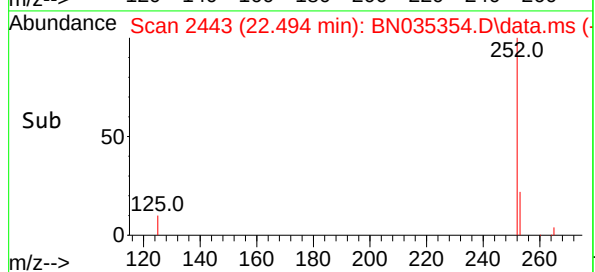
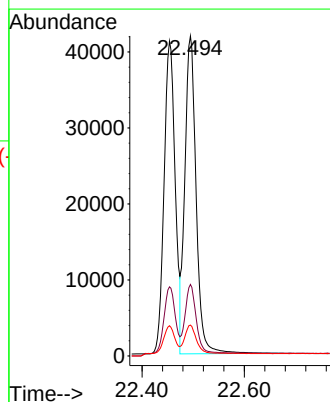
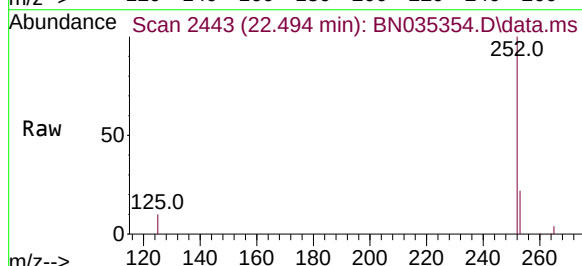
Tgt Ion:252 Resp: 63925

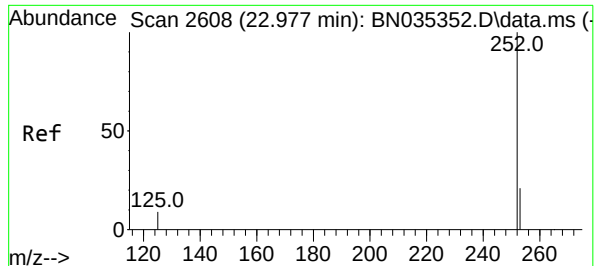
Ion Ratio Lower Upper

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

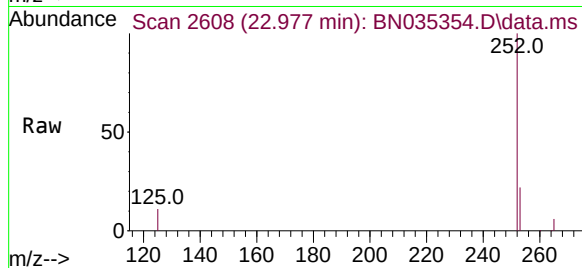
Acq: 27 Nov 2024 17:57

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6



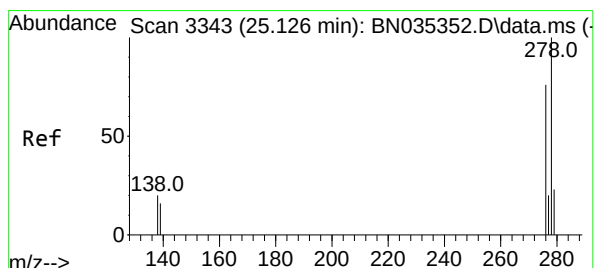
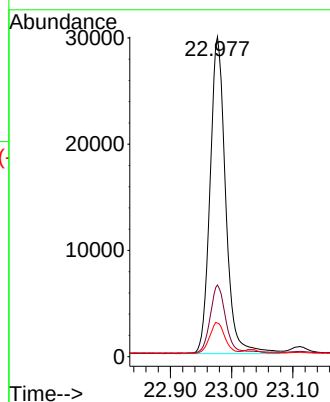
Tgt Ion:252 Resp: 52595

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

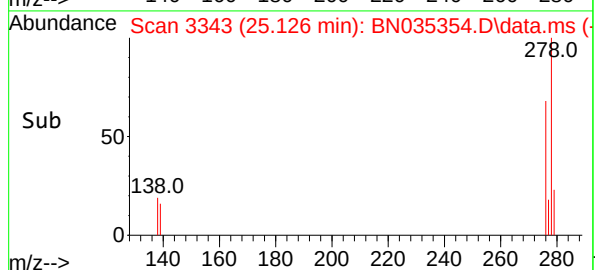
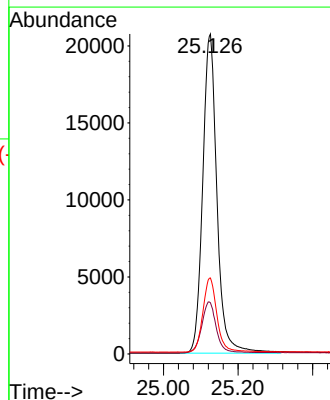
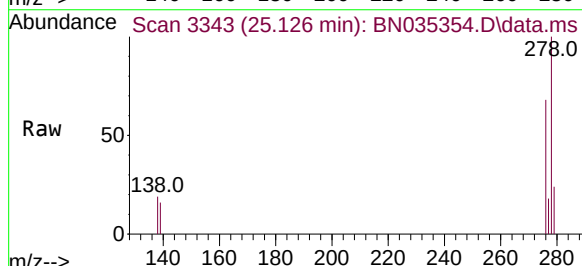
Tgt Ion:278 Resp: 55068

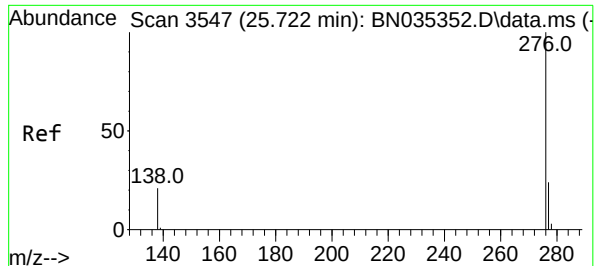
Ion Ratio Lower Upper

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

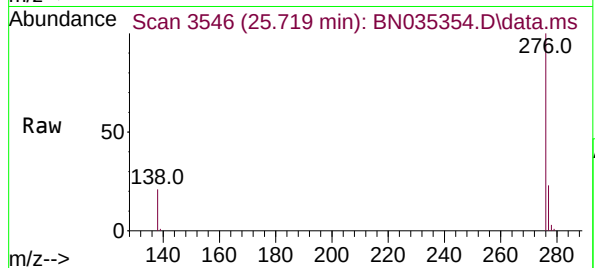
Acq: 27 Nov 2024 17:57

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6



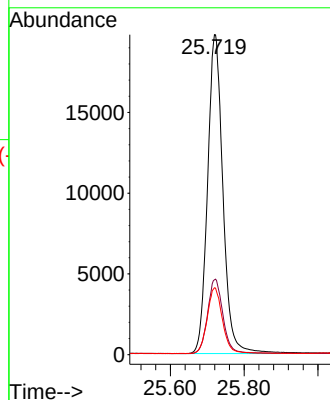
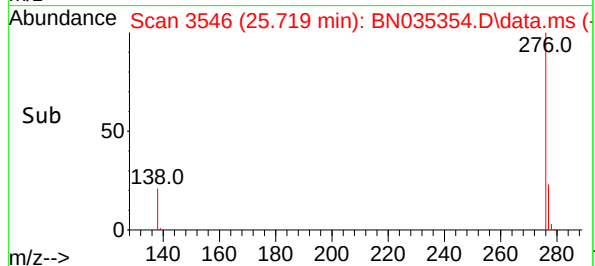
Tgt Ion:276 Resp: 56947

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

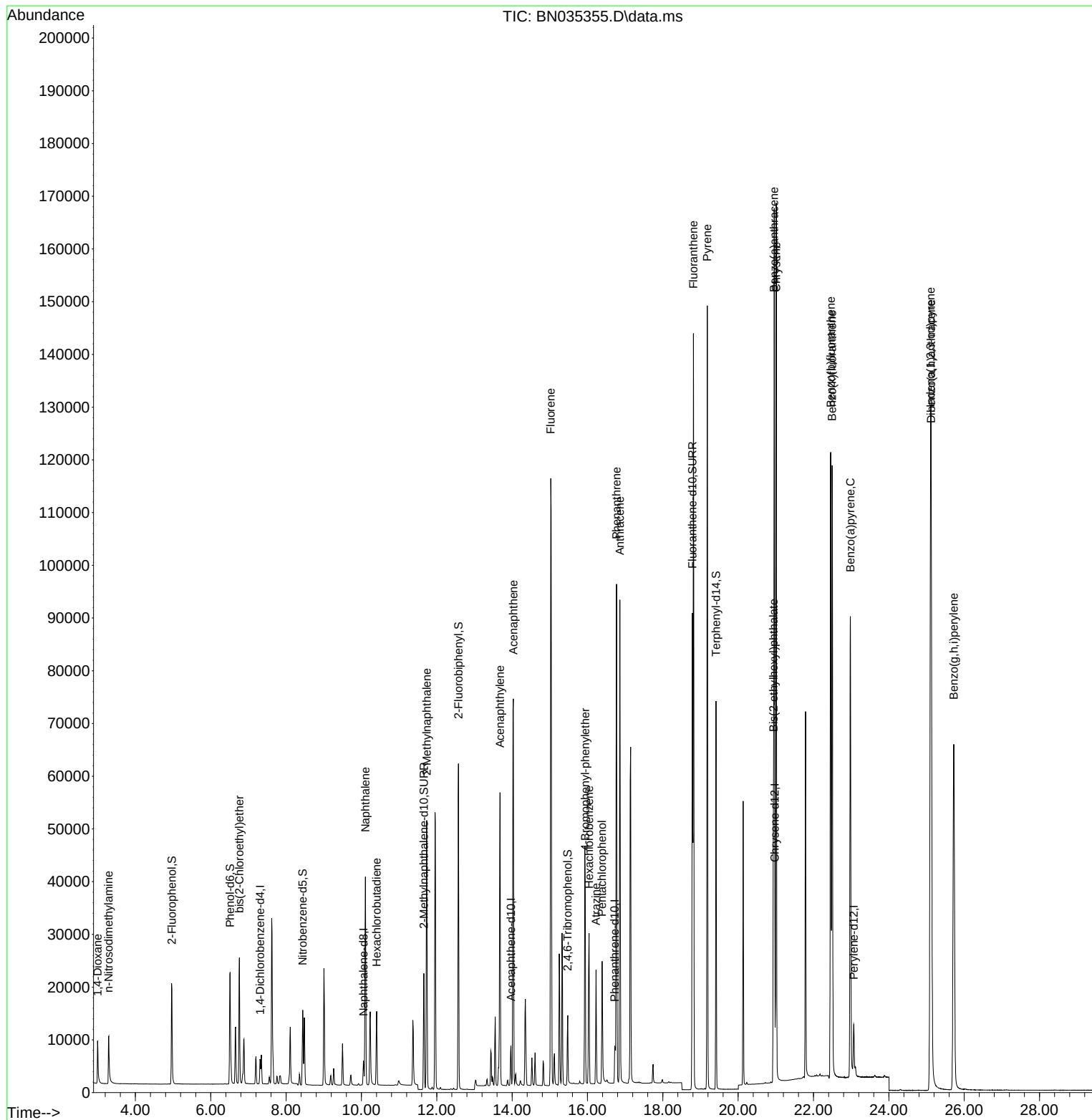
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.308  | 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              |        |      |          |       |       |          |
| 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       |

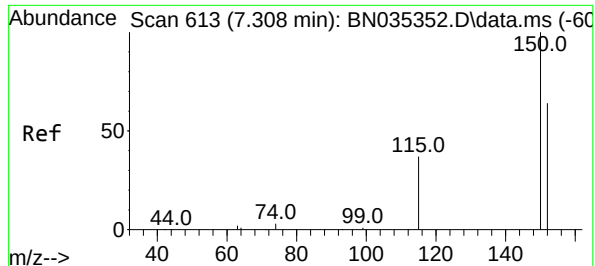
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

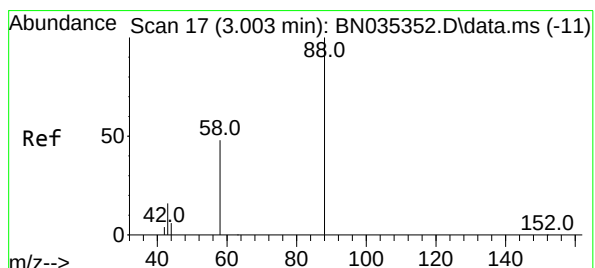
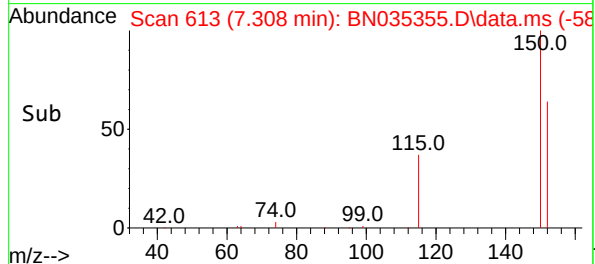
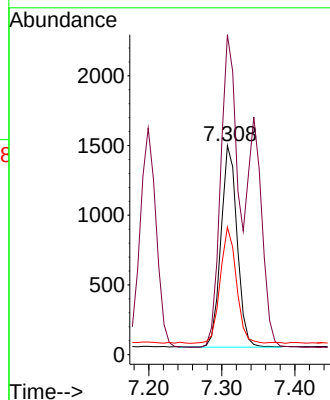
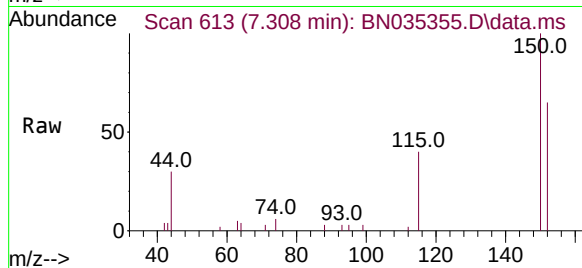




#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.308 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: BN035355.D  
Acq: 27 Nov 2024 18:33

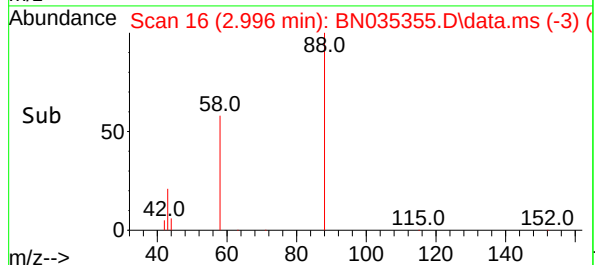
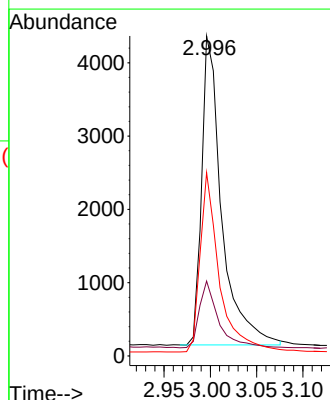
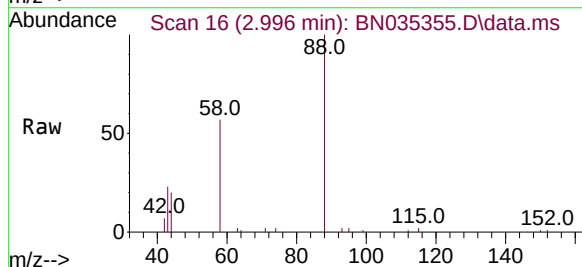
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

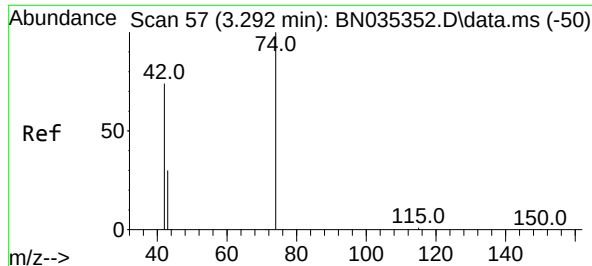
Tgt Ion:152 Resp: 2226  
Ion Ratio Lower Upper  
152 100  
150 153.0 124.0 186.0  
115 61.0 49.6 74.4



#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

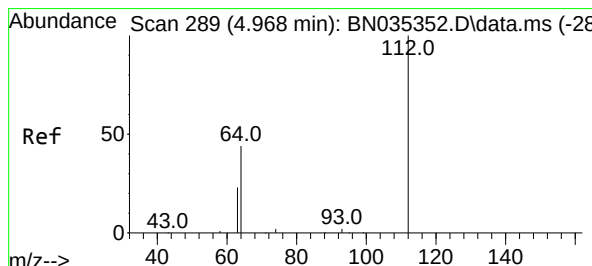
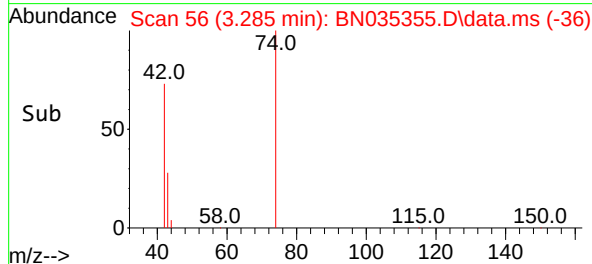
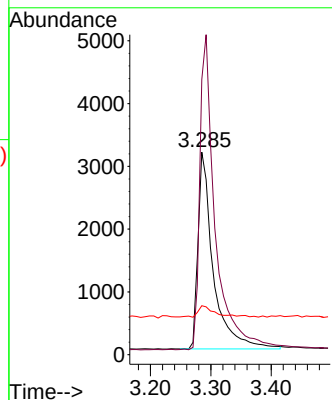
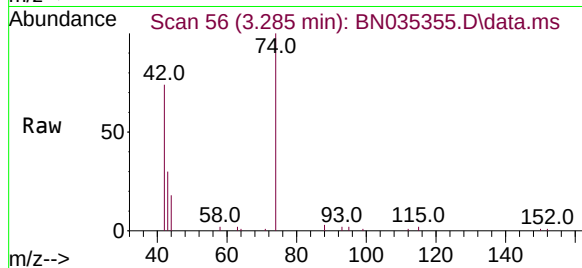




#3  
n-Nitrosodimethylamine  
Concen: 2.932 ng  
RT: 3.285 min Scan# 50  
Delta R.T. -0.007 min  
Lab File: BN035355.D  
Acq: 27 Nov 2024 18:33

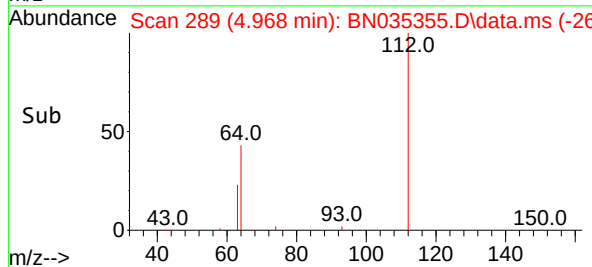
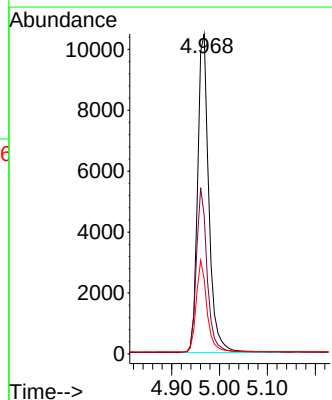
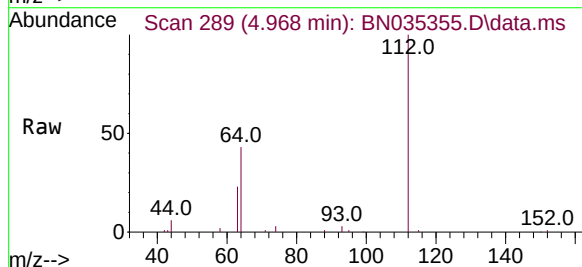
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

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#

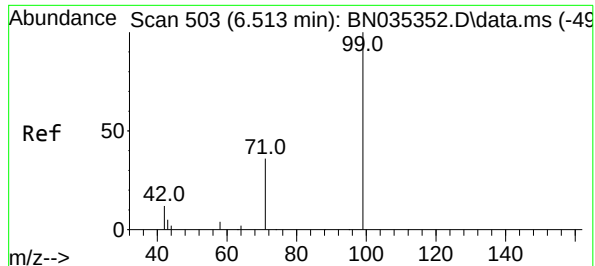


#4  
2-Fluorophenol  
Concen: 3.007 ng  
RT: 4.968 min Scan# 289  
Delta R.T. -0.000 min  
Lab File: BN035355.D  
Acq: 27 Nov 2024 18:33

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



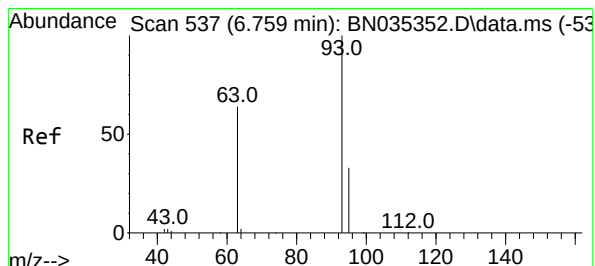
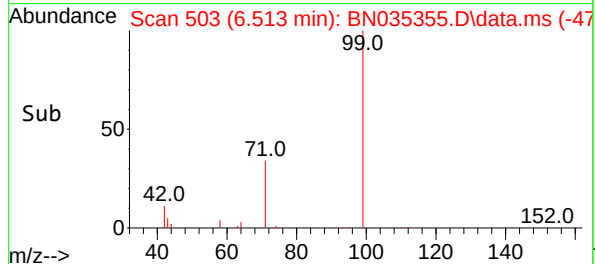
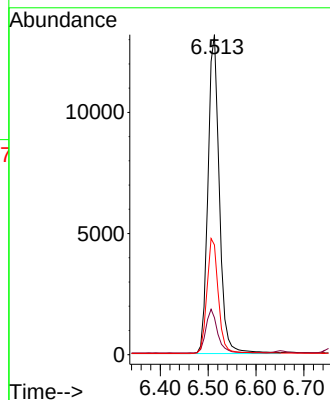
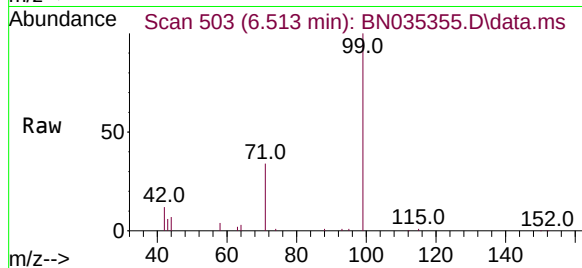




#5  
Phenol-d6  
Concen: 3.053 ng  
RT: 6.513 min Scan# 503  
Delta R.T. -0.000 min  
Lab File: BN035355.D  
Acq: 27 Nov 2024 18:33

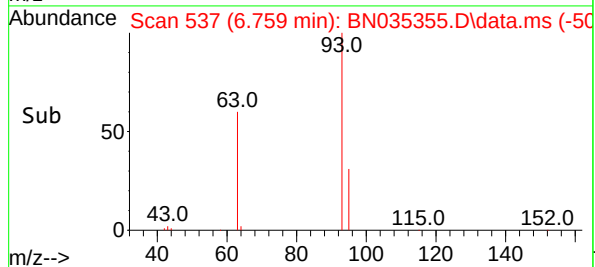
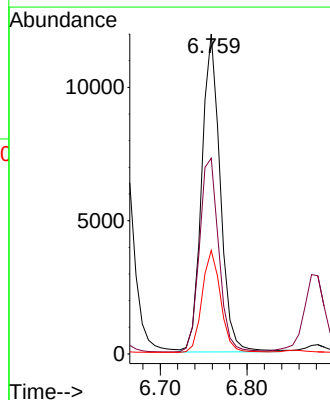
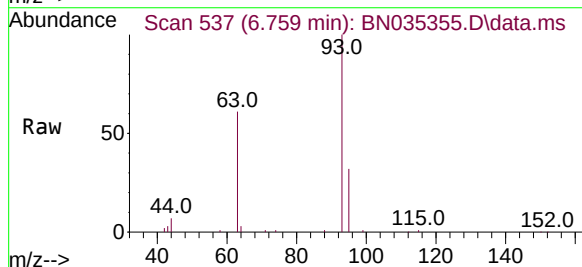
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

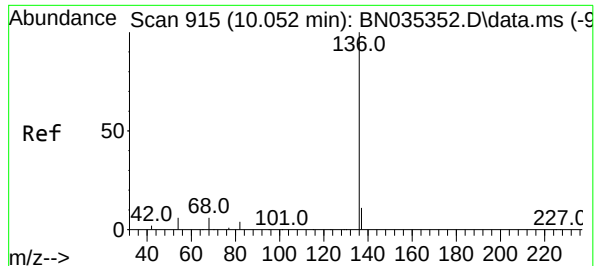
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 99    | Resp: | 21633 |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 14.1  | 11.4  | 17.2  |
| 71       | 36.5  | 29.3  | 43.9  |



#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  |

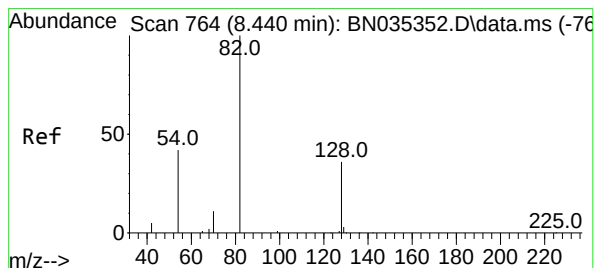
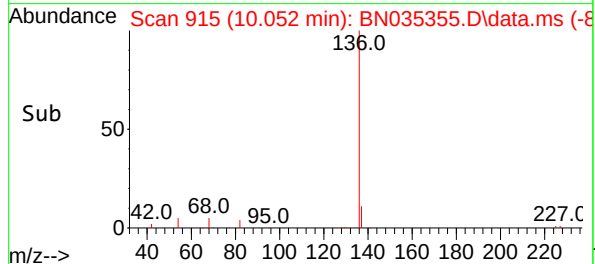
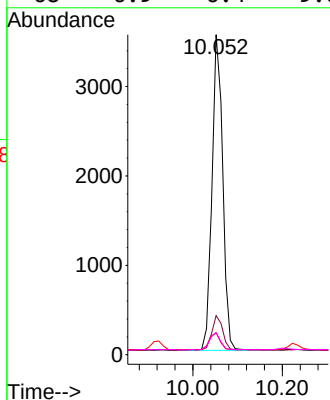
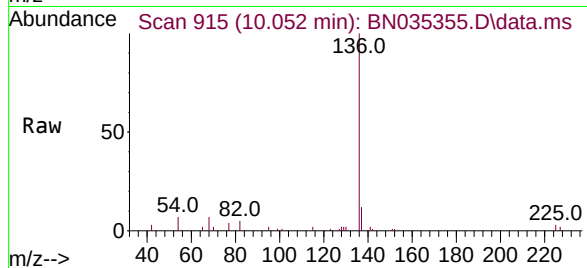




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.052 min Scan# 915  
Delta R.T. -0.000 min  
Lab File: BN035355.D  
Acq: 27 Nov 2024 18:33

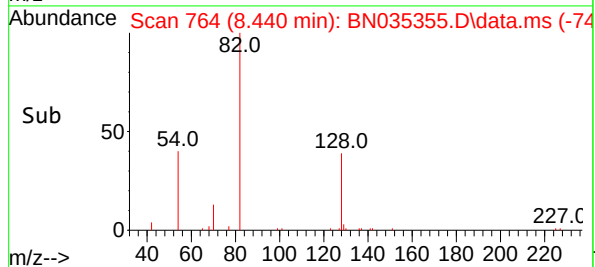
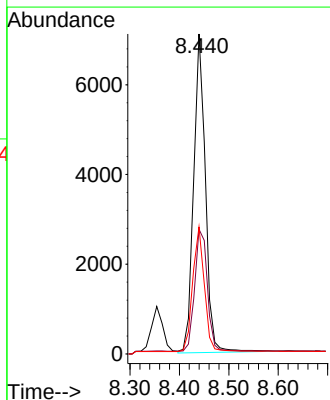
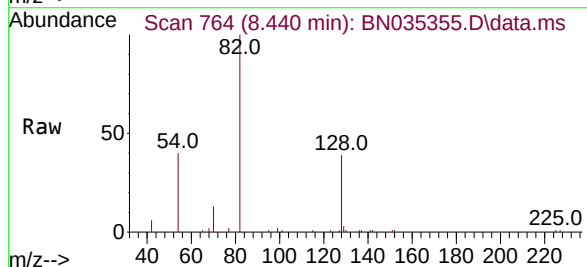
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

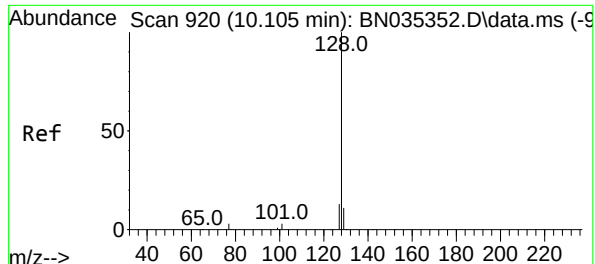
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 5857  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 12.2  | 10.2  | 15.2  |
| 54       | 6.9   | 6.1   | 9.1   |
| 68       | 6.9   | 6.4   | 9.6   |



#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  |

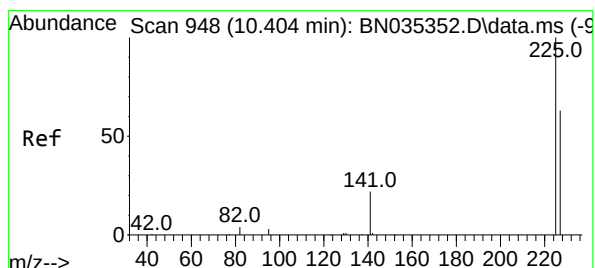
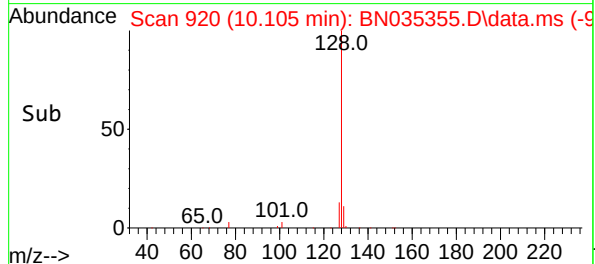
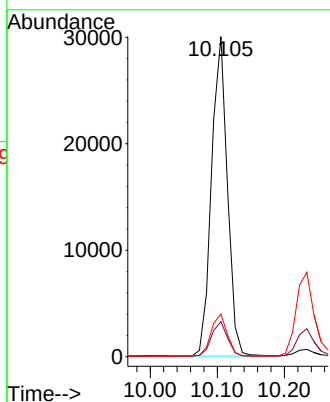
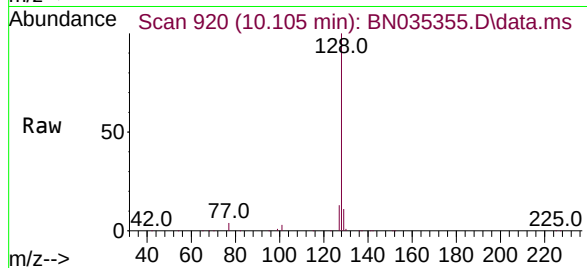




#9  
Naphthalene  
Concen: 3.214 ng  
RT: 10.105 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: BN035355.D  
Acq: 27 Nov 2024 18:33

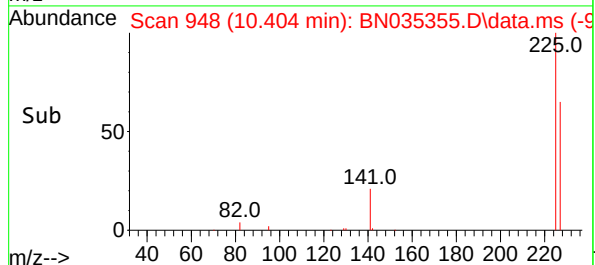
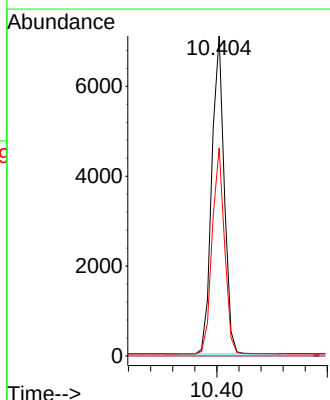
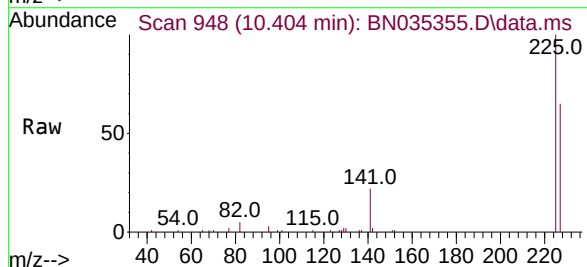
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

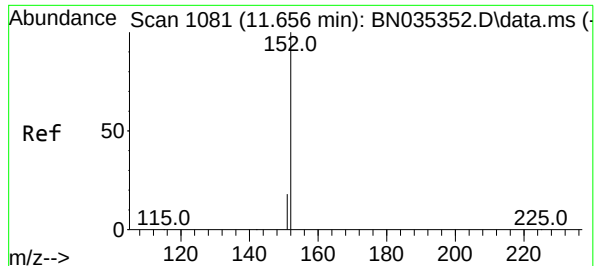
Tgt Ion:128 Resp: 49151  
Ion Ratio Lower Upper  
128 100  
129 11.0 9.8 14.6  
127 13.3 11.4 17.2



#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

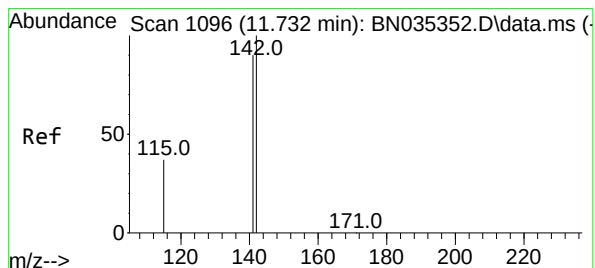
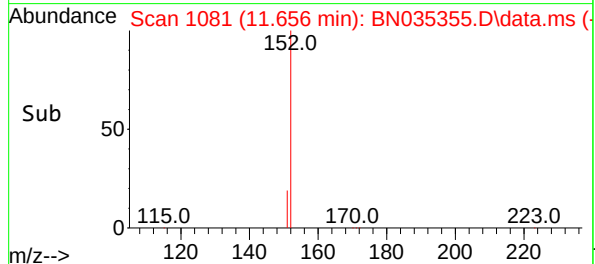
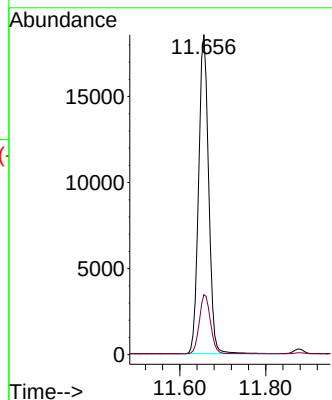
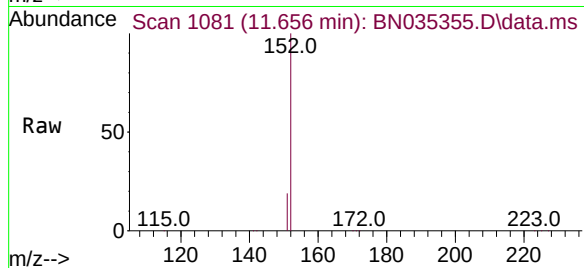




#11  
2-Methylnaphthalene-d10  
Concen: 2.870 ng  
RT: 11.656 min Scan# 1081  
Delta R.T. -0.000 min  
Lab File: BN035355.D  
Acq: 27 Nov 2024 18:33

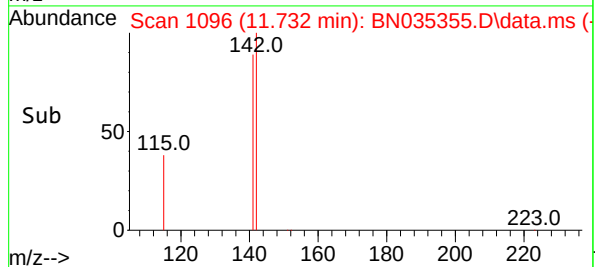
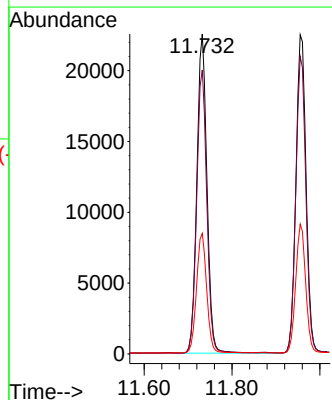
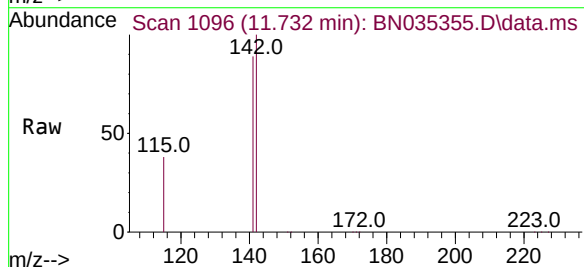
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

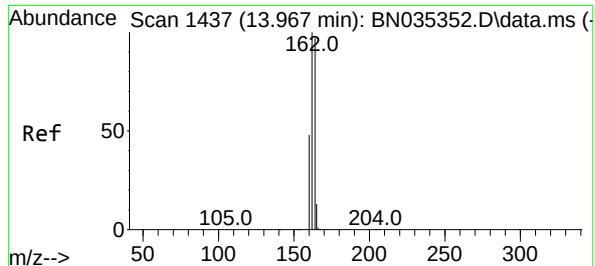
Tgt Ion:152 Resp: 29957  
Ion Ratio Lower Upper  
152 100  
151 20.6 16.6 25.0



#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

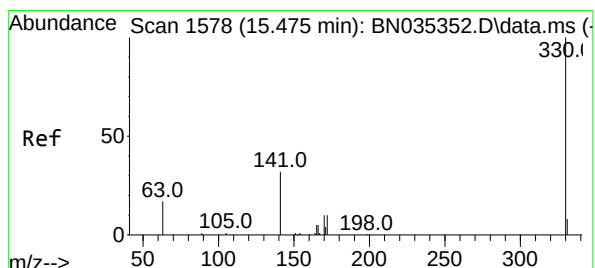
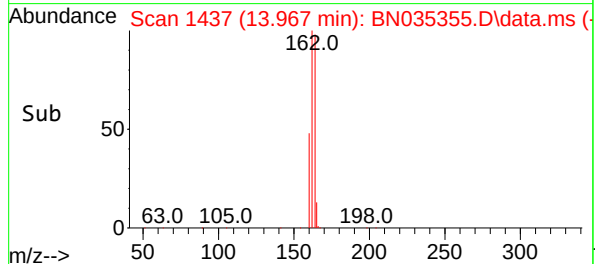
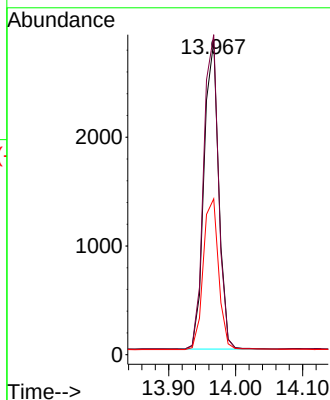
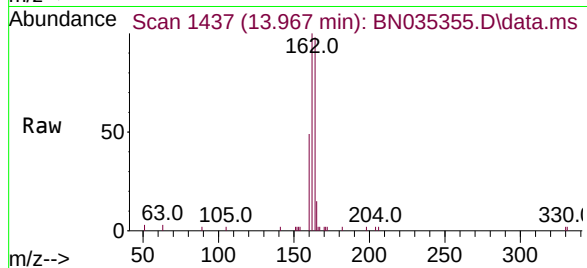




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.967 min Scan# 1437  
Delta R.T. -0.000 min  
Lab File: BN035355.D  
Acq: 27 Nov 2024 18:33

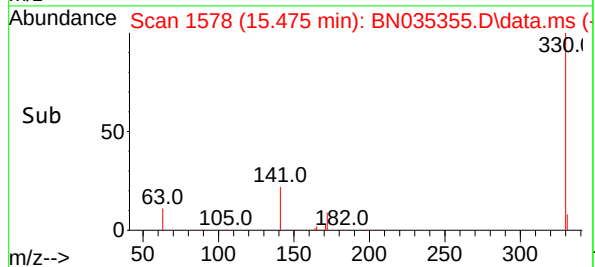
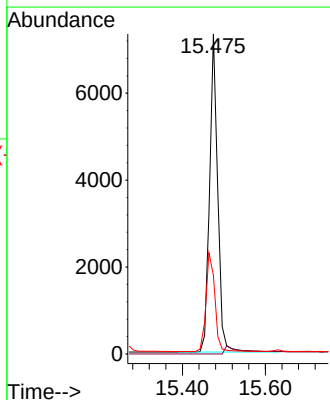
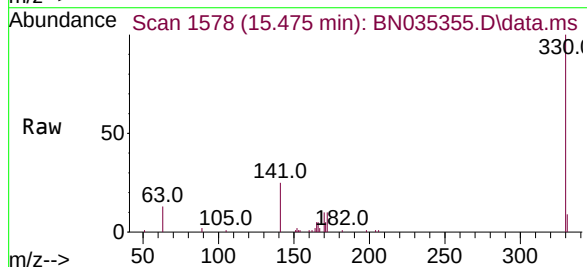
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

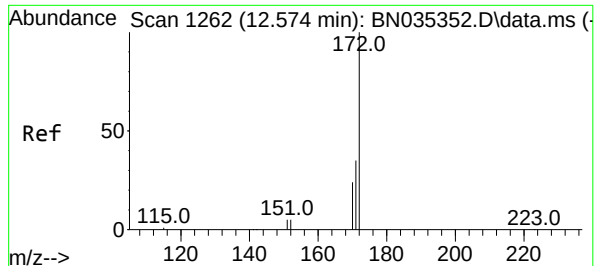
Tgt Ion:164 Resp: 4307  
Ion Ratio Lower Upper  
164 100  
162 102.0 82.2 123.2  
160 49.7 40.1 60.1



#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# 11

Delta R.T. -0.000 min

Lab File: BN035355.D

Acq: 27 Nov 2024 18:33

Instrument :

BNA\_N

ClientSampleId :

SSTDICC3.2

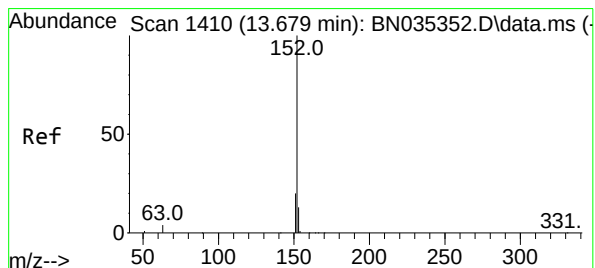
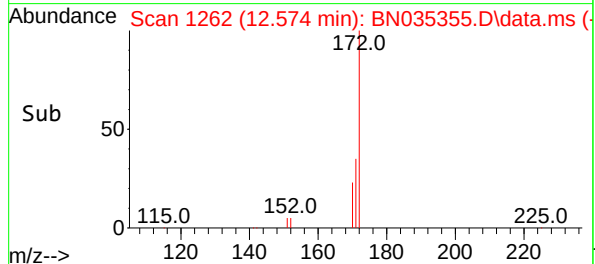
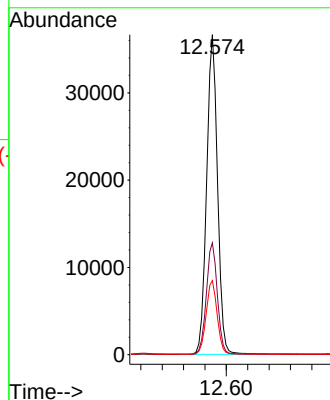
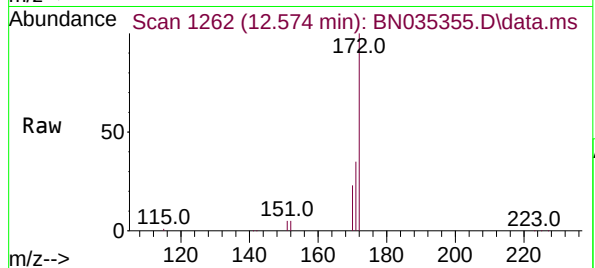
Tgt Ion:172 Resp: 52048

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

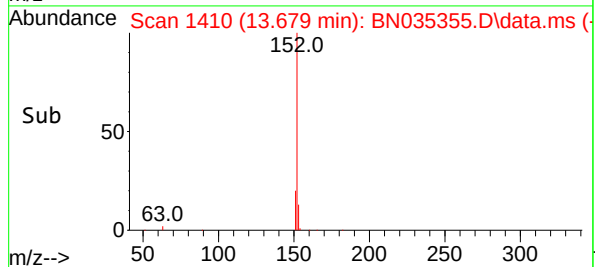
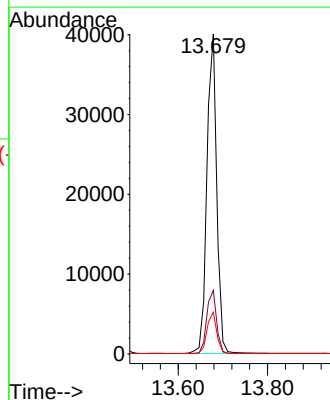
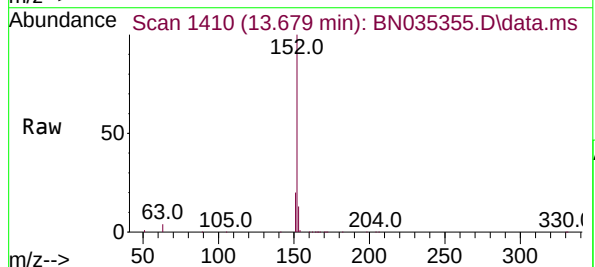
Tgt Ion:152 Resp: 60734

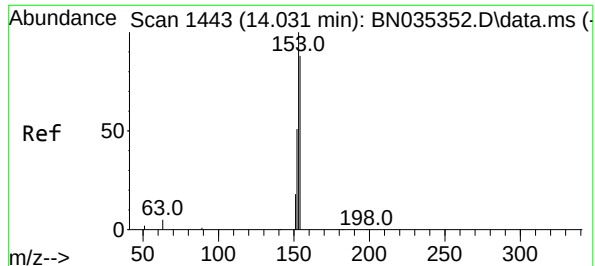
Ion Ratio Lower Upper

152 100

151 19.8 16.2 24.2

153 12.9 10.4 15.6

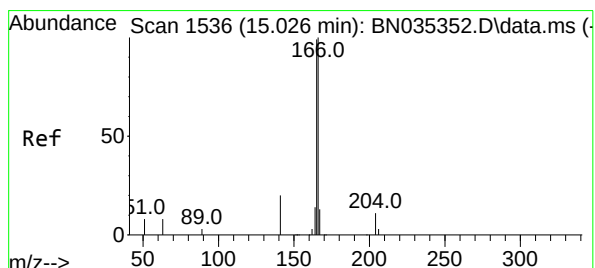
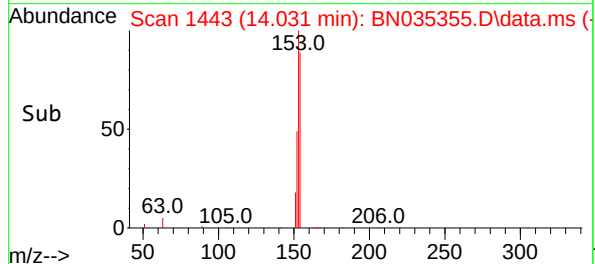
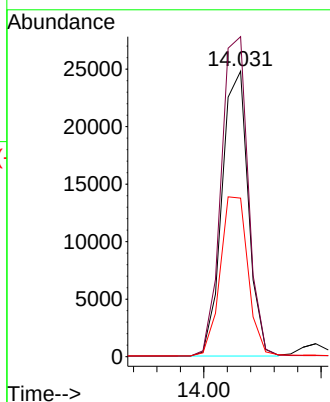
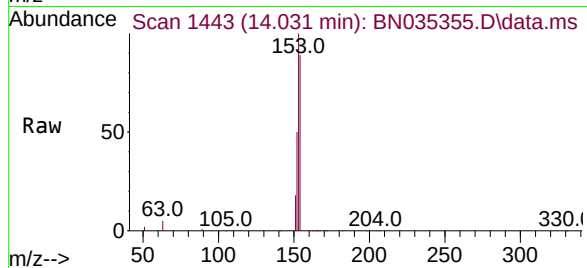




#17  
Acenaphthene  
Concen: 3.206 ng  
RT: 14.031 min Scan# 1443  
Delta R.T. -0.000 min  
Lab File: BN035355.D  
Acq: 27 Nov 2024 18:33

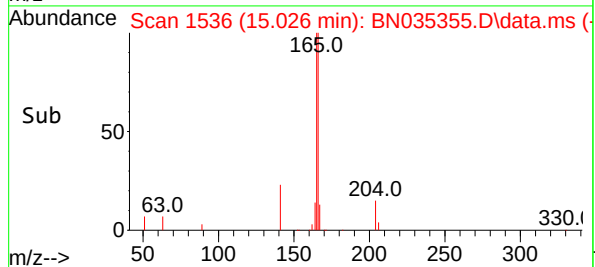
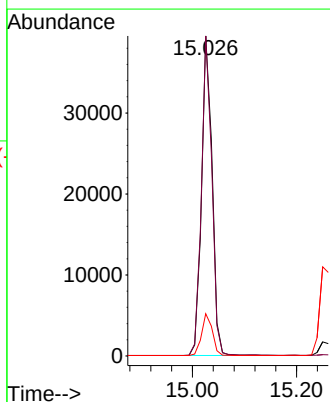
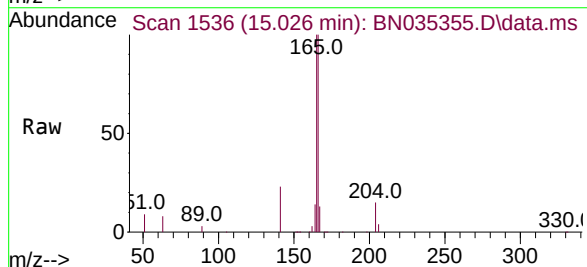
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

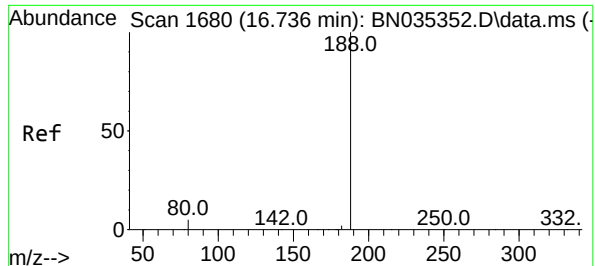
Tgt Ion:154 Resp: 38676  
Ion Ratio Lower Upper  
154 100  
153 115.5 92.6 139.0  
152 59.2 49.0 73.6



#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

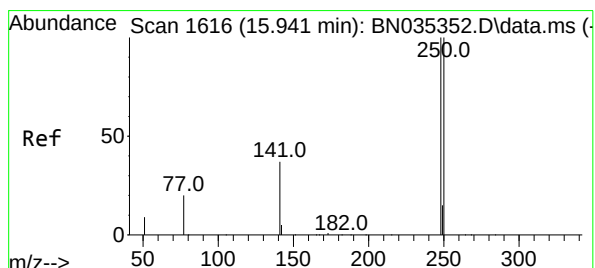
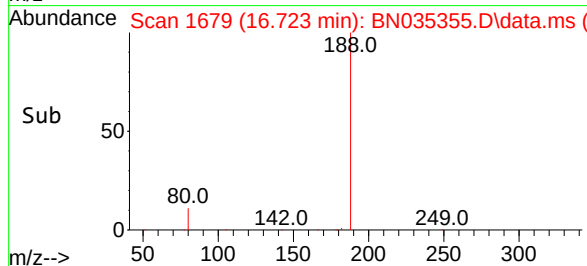
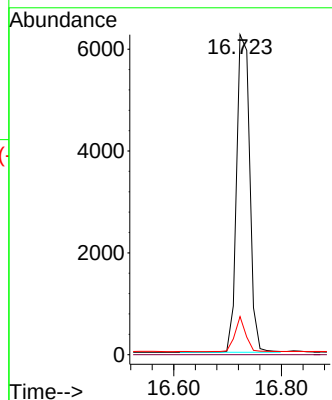
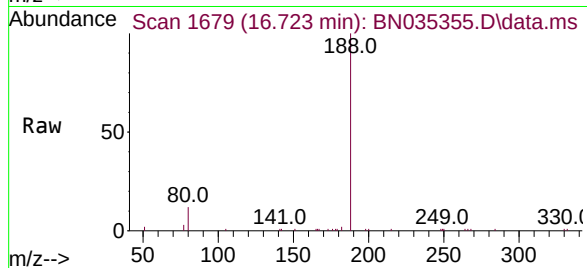
Tgt Ion:188 Resp: 10513

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

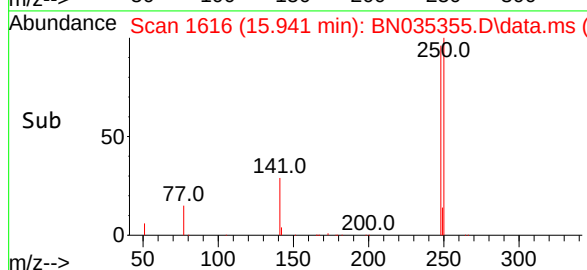
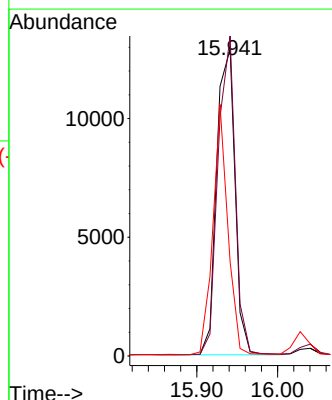
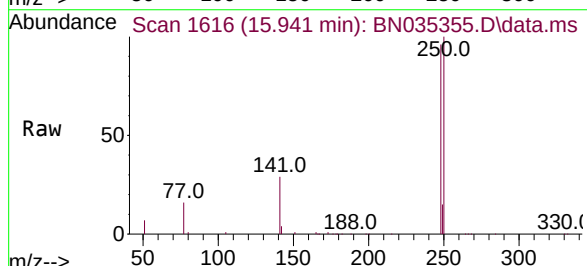
Tgt Ion:248 Resp: 20321

Ion Ratio Lower Upper

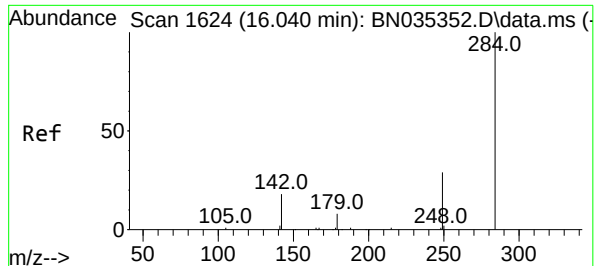
248 100

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

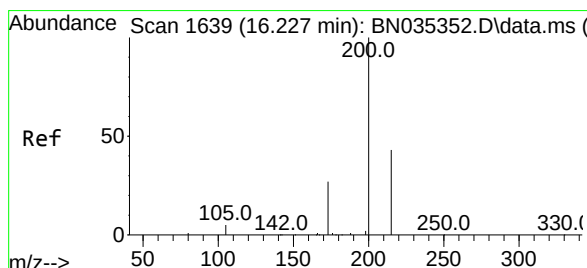
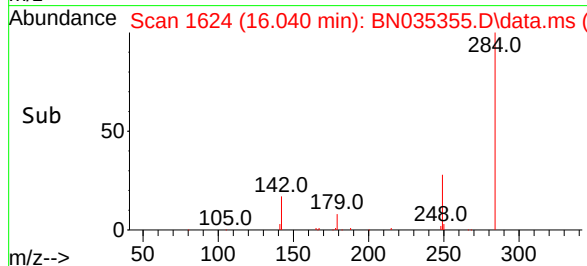
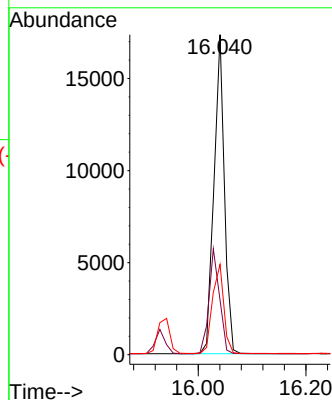
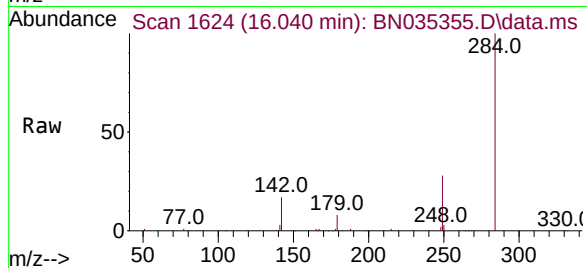
Tgt Ion:284 Resp: 23349

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

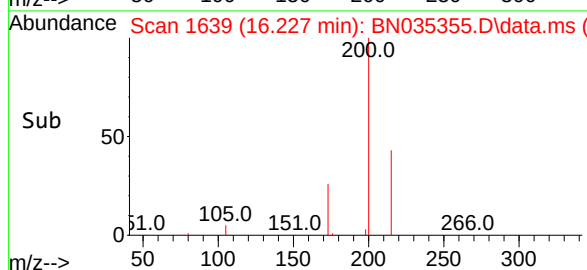
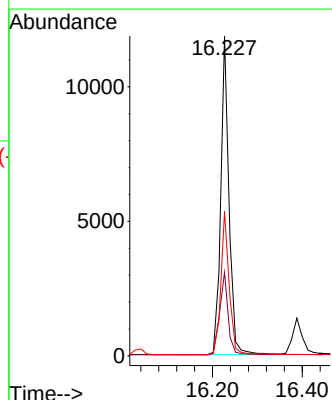
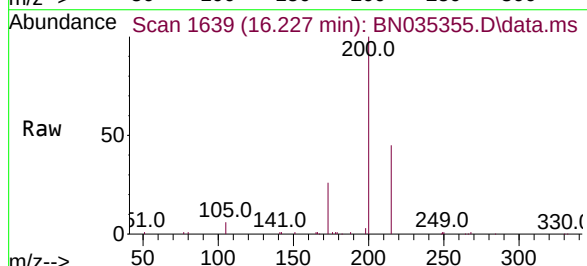
Tgt Ion:200 Resp: 15072

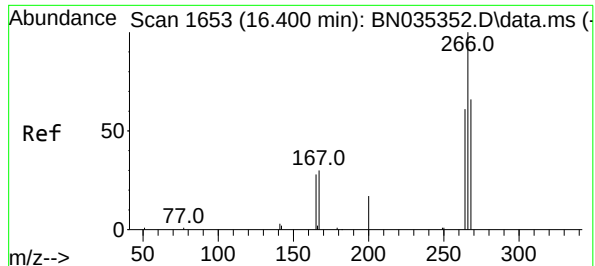
Ion Ratio Lower Upper

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

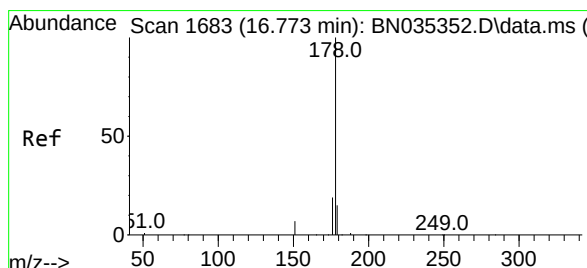
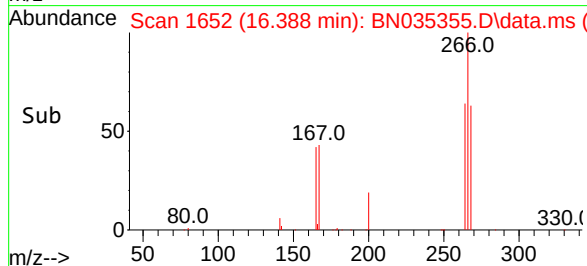
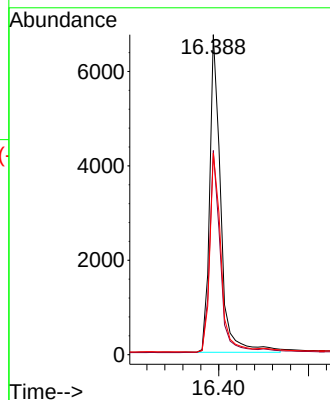
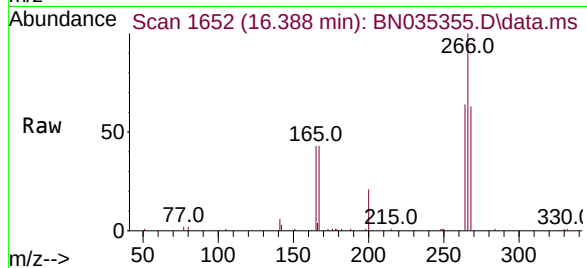
Tgt Ion:266 Resp: 11439

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

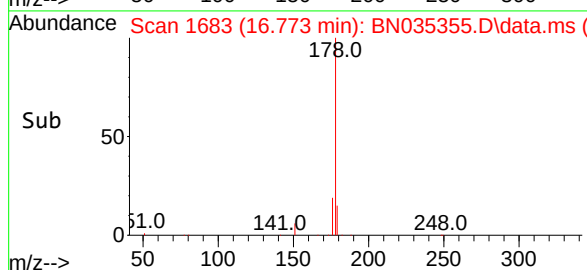
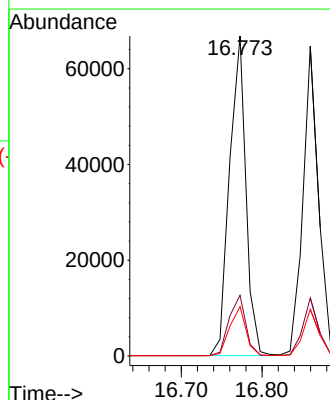
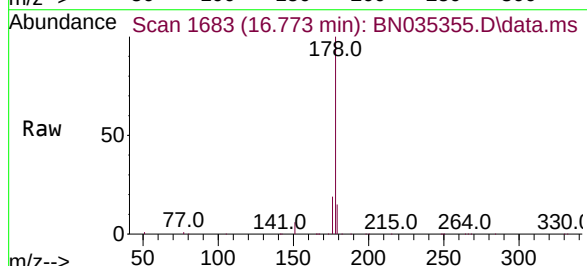
Tgt Ion:178 Resp: 94243

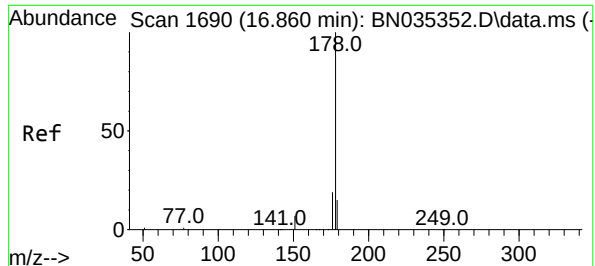
Ion Ratio Lower Upper

178 100

176 19.3 15.4 23.2

179 15.3 12.3 18.5

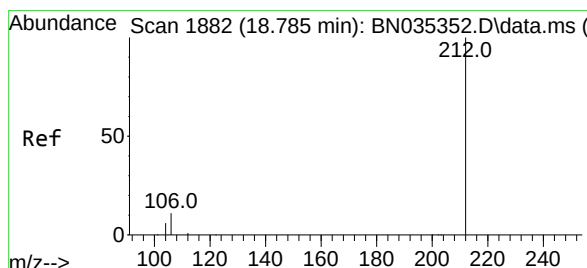
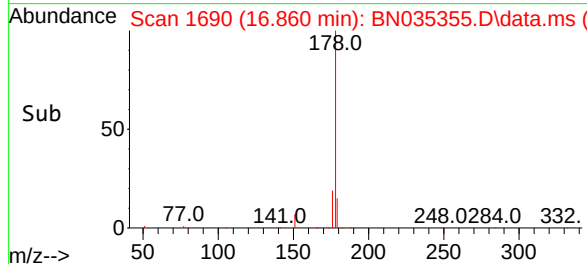
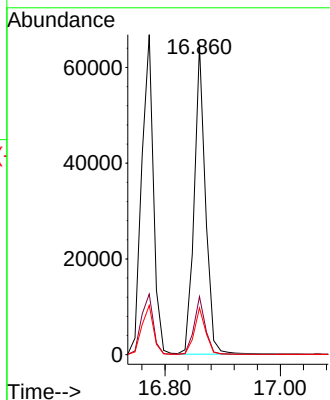
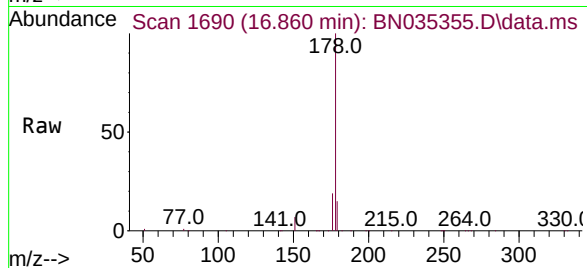




#26  
Anthracene  
Concen: 3.449 ng  
RT: 16.860 min Scan# 1690  
Delta R.T. -0.000 min  
Lab File: BN035355.D  
Acq: 27 Nov 2024 18:33

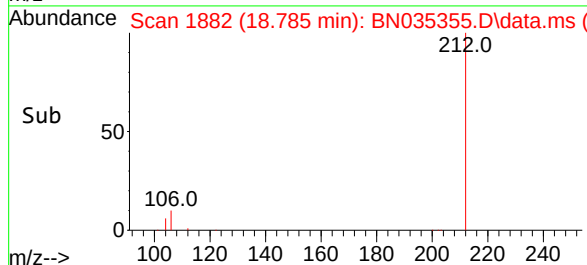
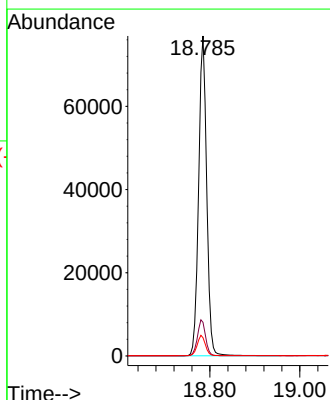
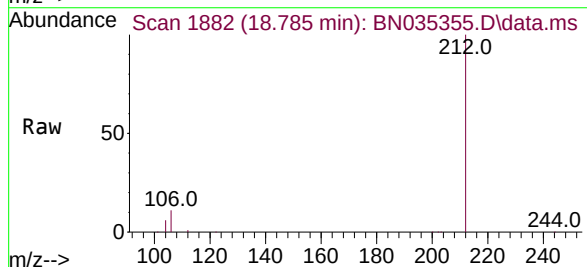
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

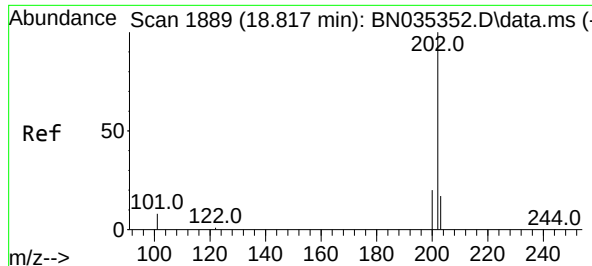
Tgt Ion:178 Resp: 87657  
Ion Ratio Lower Upper  
178 100  
176 18.6 15.0 22.6  
179 15.1 12.6 18.8



#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

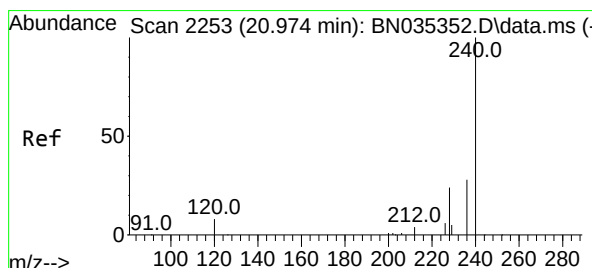
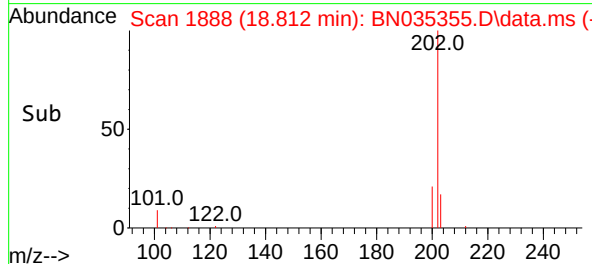
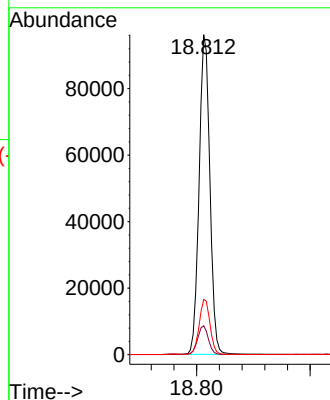
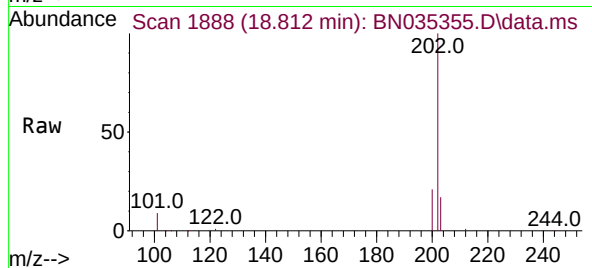




#28  
Fluoranthene  
Concen: 3.309 ng  
RT: 18.812 min Scan# 1888  
Delta R.T. -0.005 min  
Lab File: BN035355.D  
Acq: 27 Nov 2024 18:33

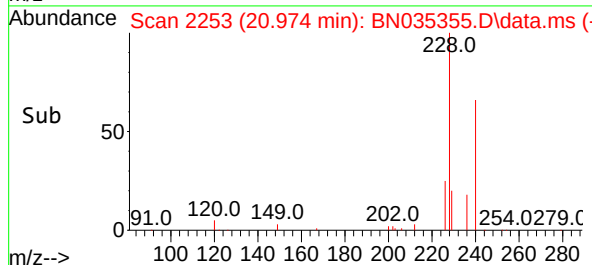
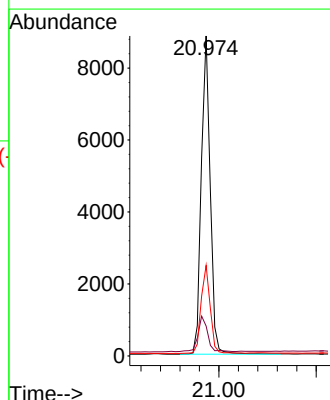
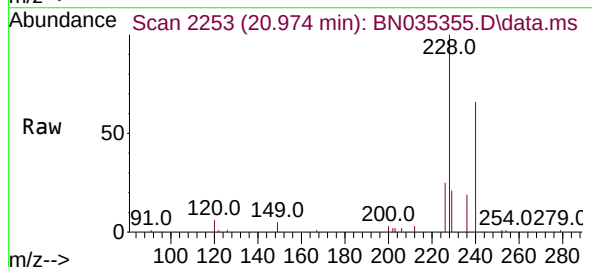
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

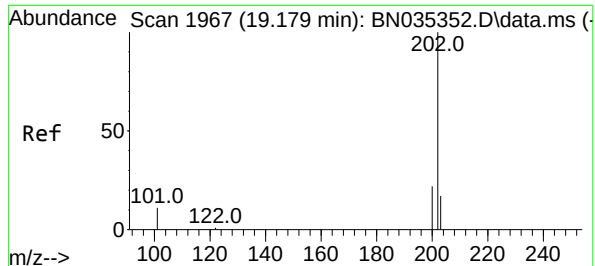
Tgt Ion:202 Resp: 125901  
Ion Ratio Lower Upper  
202 100  
101 9.1 7.4 11.0  
203 17.3 13.7 20.5



#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

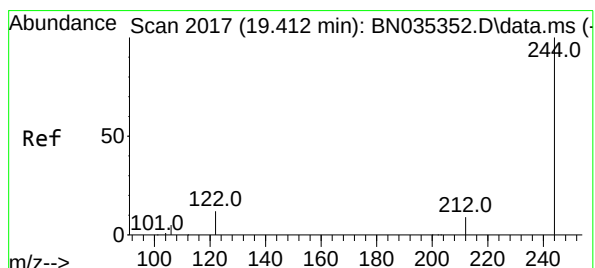
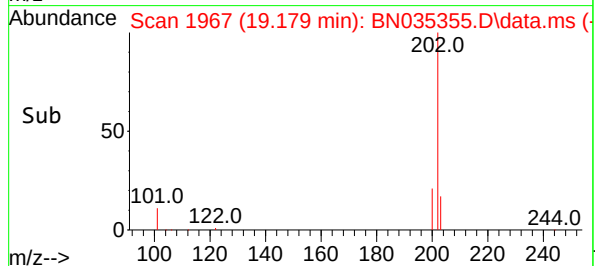
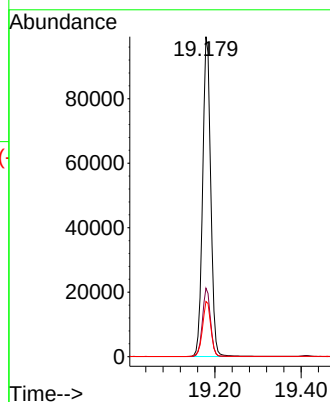
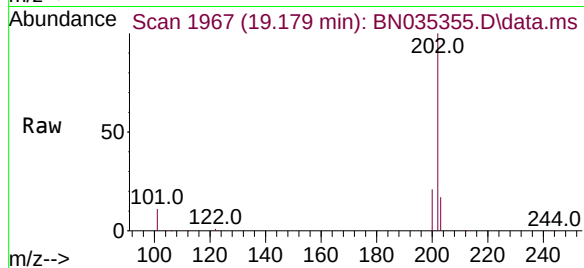
Tgt Ion:202 Resp: 129105

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

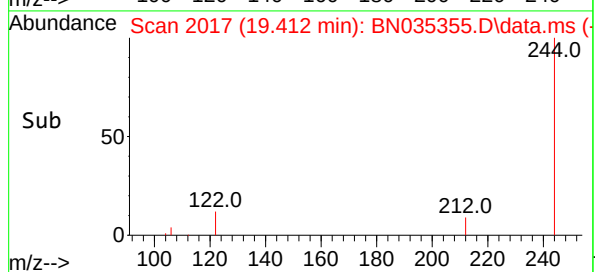
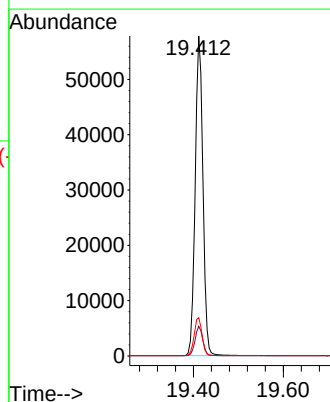
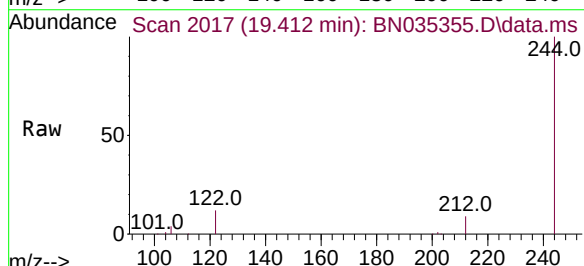
Tgt Ion:244 Resp: 69164

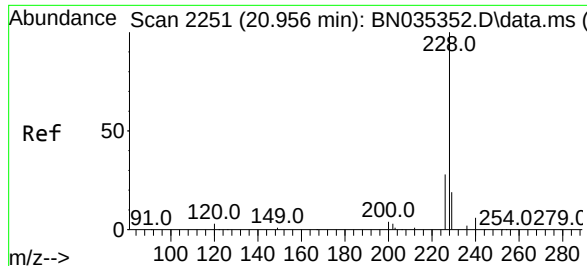
Ion Ratio Lower Upper

244 100

212 9.2 8.1 12.1

122 12.0 10.3 15.5

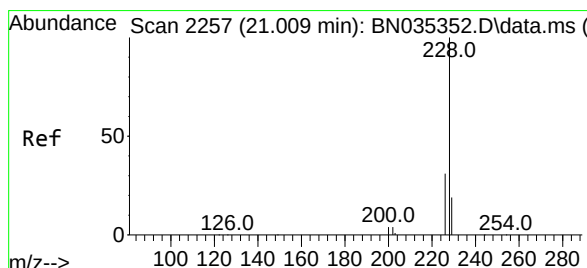
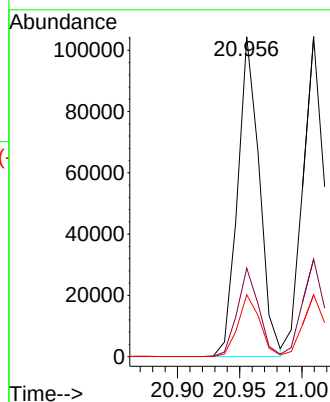
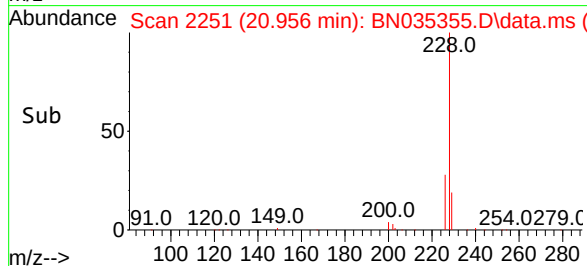
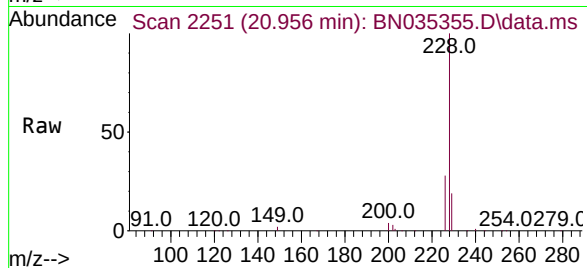




#32  
Benzo(a)anthracene  
Concen: 3.242 ng  
RT: 20.956 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: BN035355.D  
Acq: 27 Nov 2024 18:33

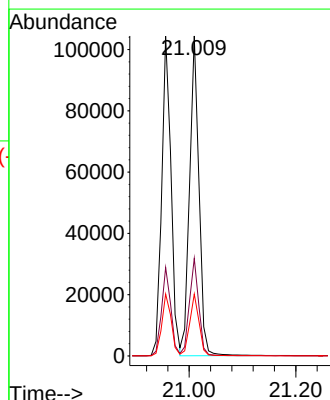
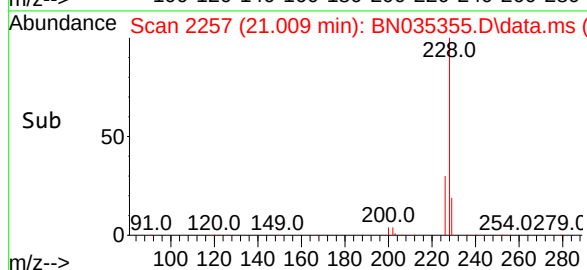
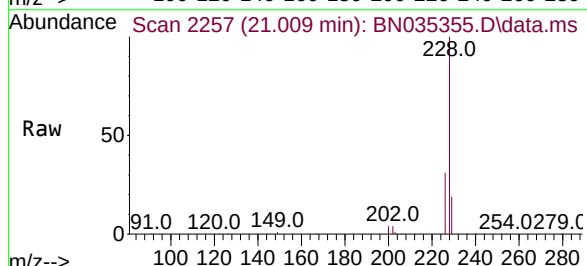
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

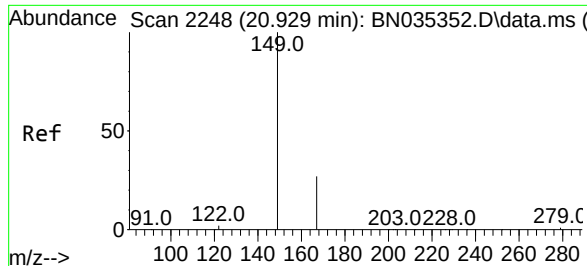
Tgt Ion:228 Resp: 126517  
Ion Ratio Lower Upper  
228 100  
226 27.6 22.5 33.7  
229 19.4 15.8 23.8



#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

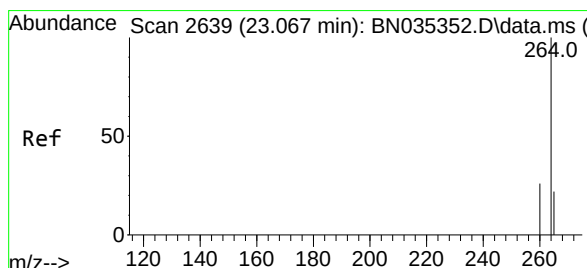
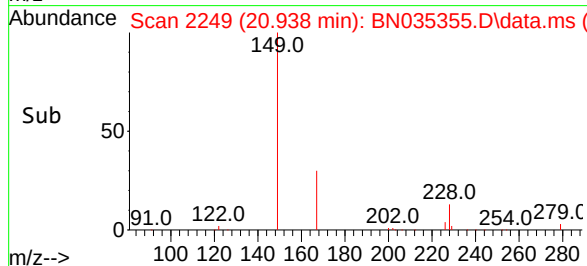
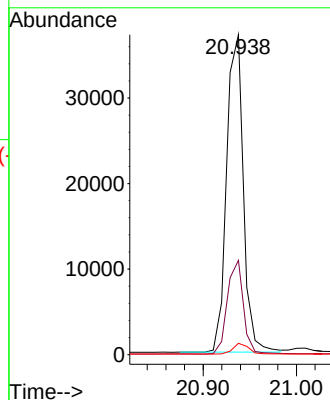
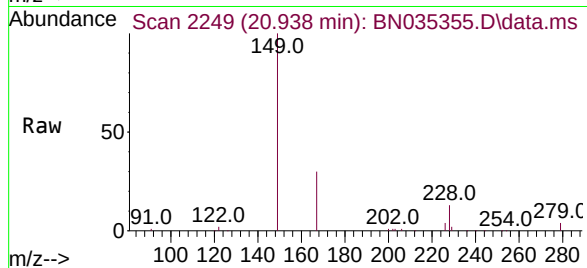




#34  
Bis(2-ethylhexyl)phthalate  
Concen: 2.259 ng  
RT: 20.938 min Scan# 21  
Delta R.T. 0.009 min  
Lab File: BN035355.D  
Acq: 27 Nov 2024 18:33

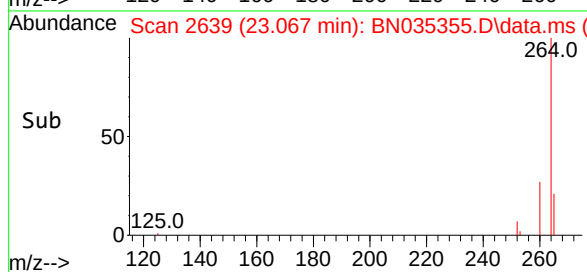
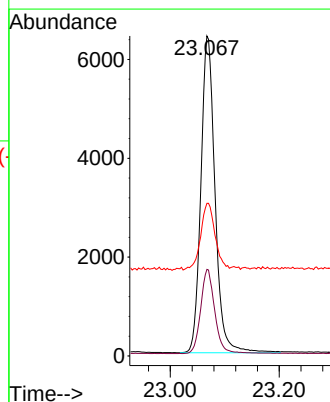
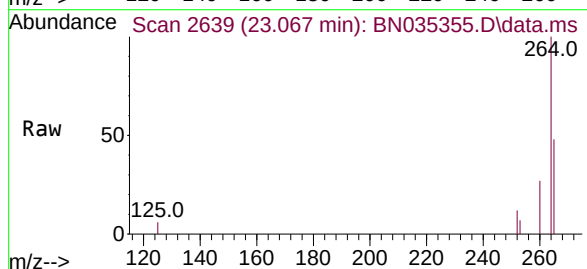
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

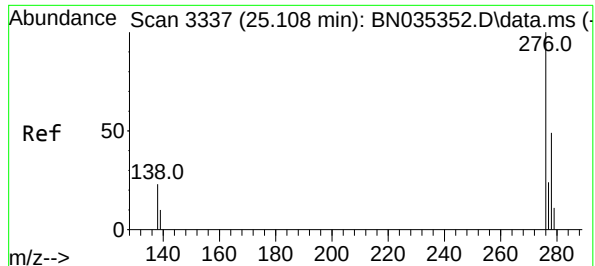
Tgt Ion:149 Resp: 46251  
Ion Ratio Lower Upper  
149 100  
167 28.3 22.2 33.4  
279 3.2 2.7 4.1



#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

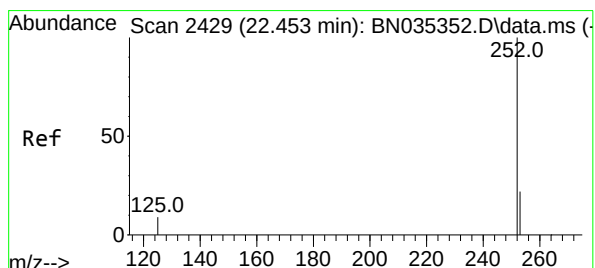
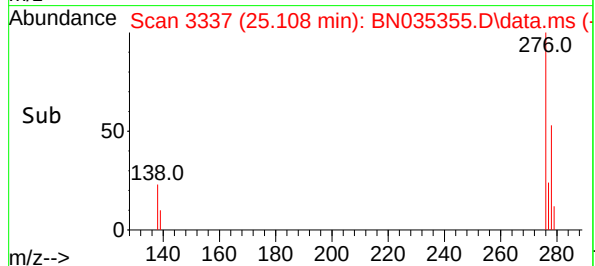
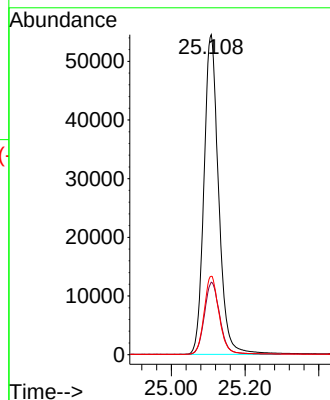
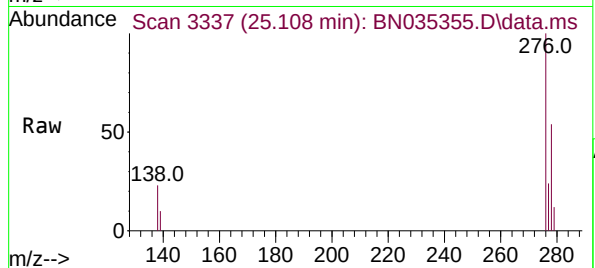
Tgt Ion:276 Resp: 150433

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

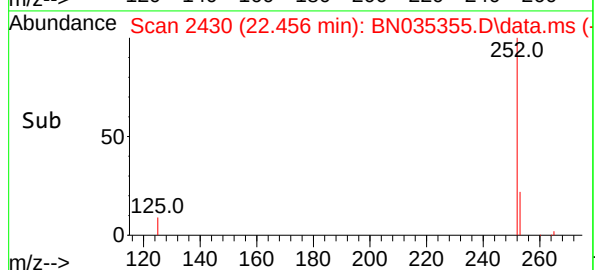
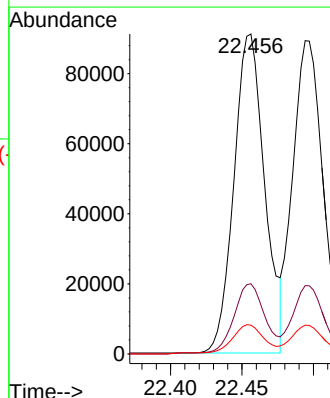
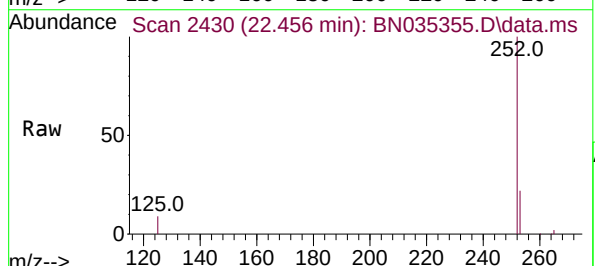
Tgt Ion:252 Resp: 136261

Ion Ratio Lower Upper

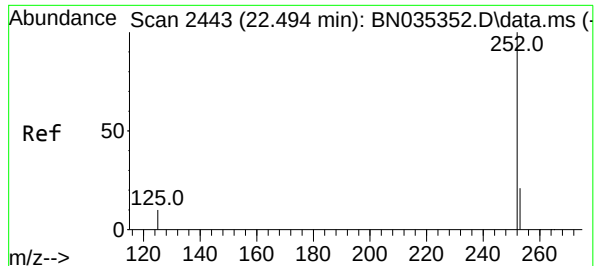
252 100

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

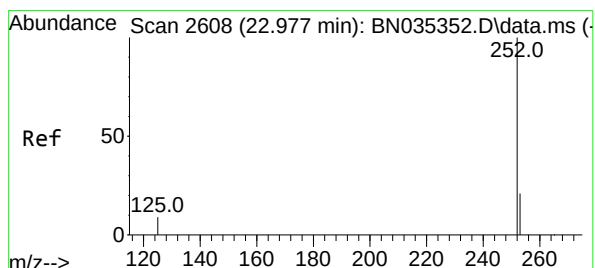
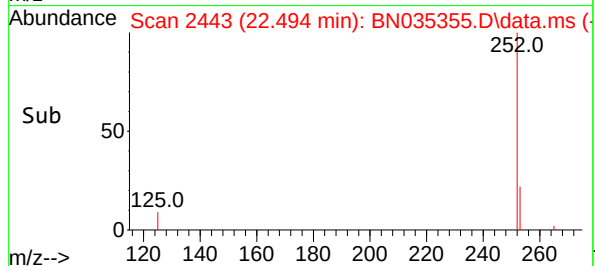
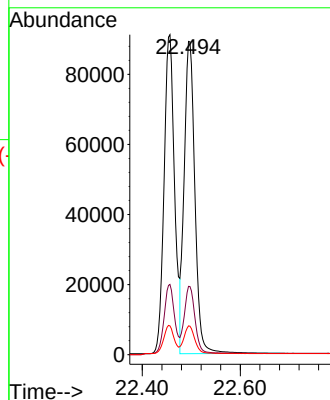
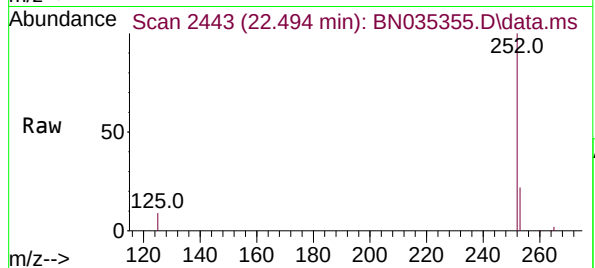
Tgt Ion:252 Resp: 134789

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

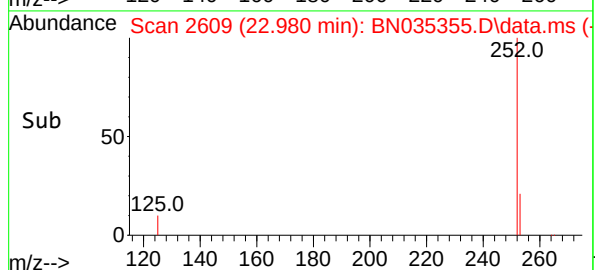
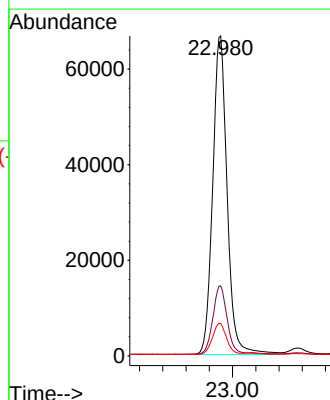
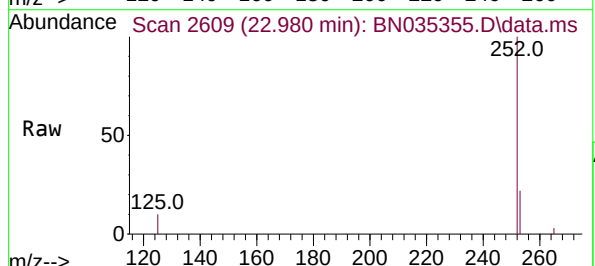
Tgt Ion:252 Resp: 114719

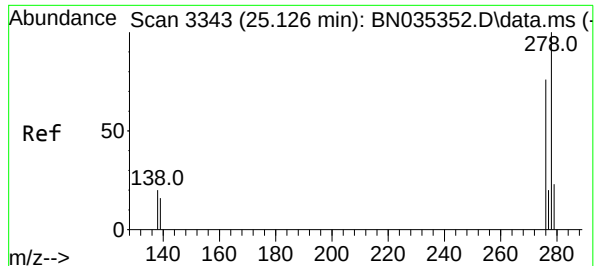
Ion Ratio Lower Upper

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

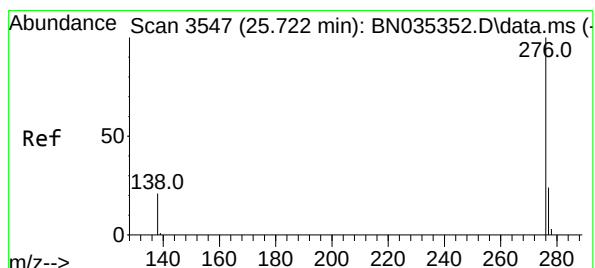
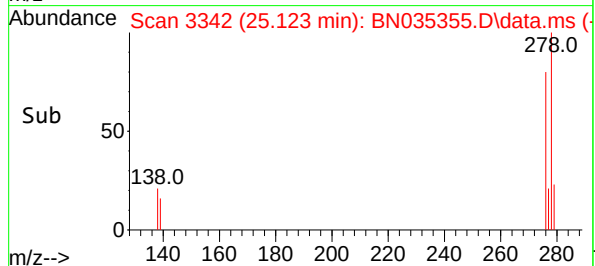
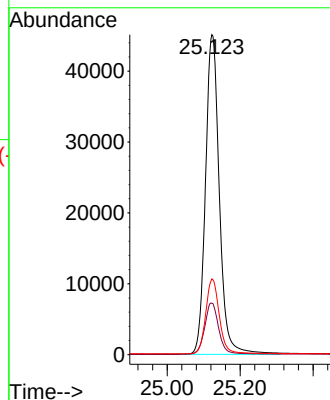
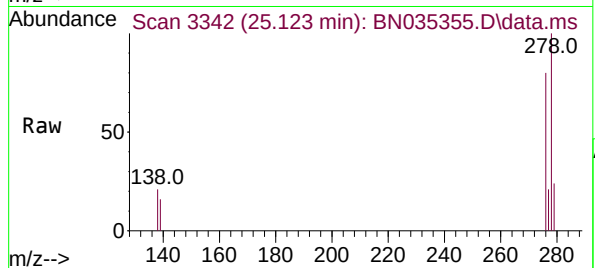
Tgt Ion:278 Resp: 119216

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

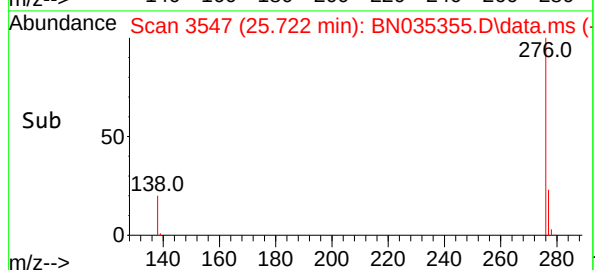
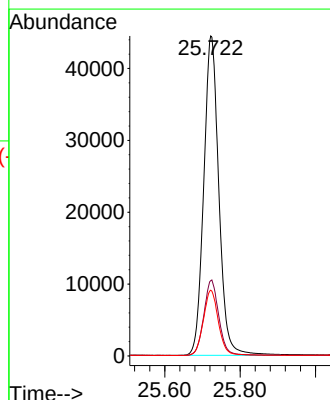
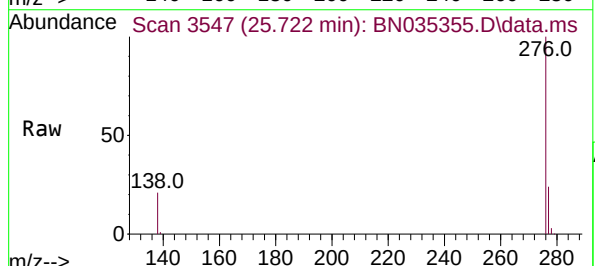
Tgt Ion:276 Resp: 123841

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

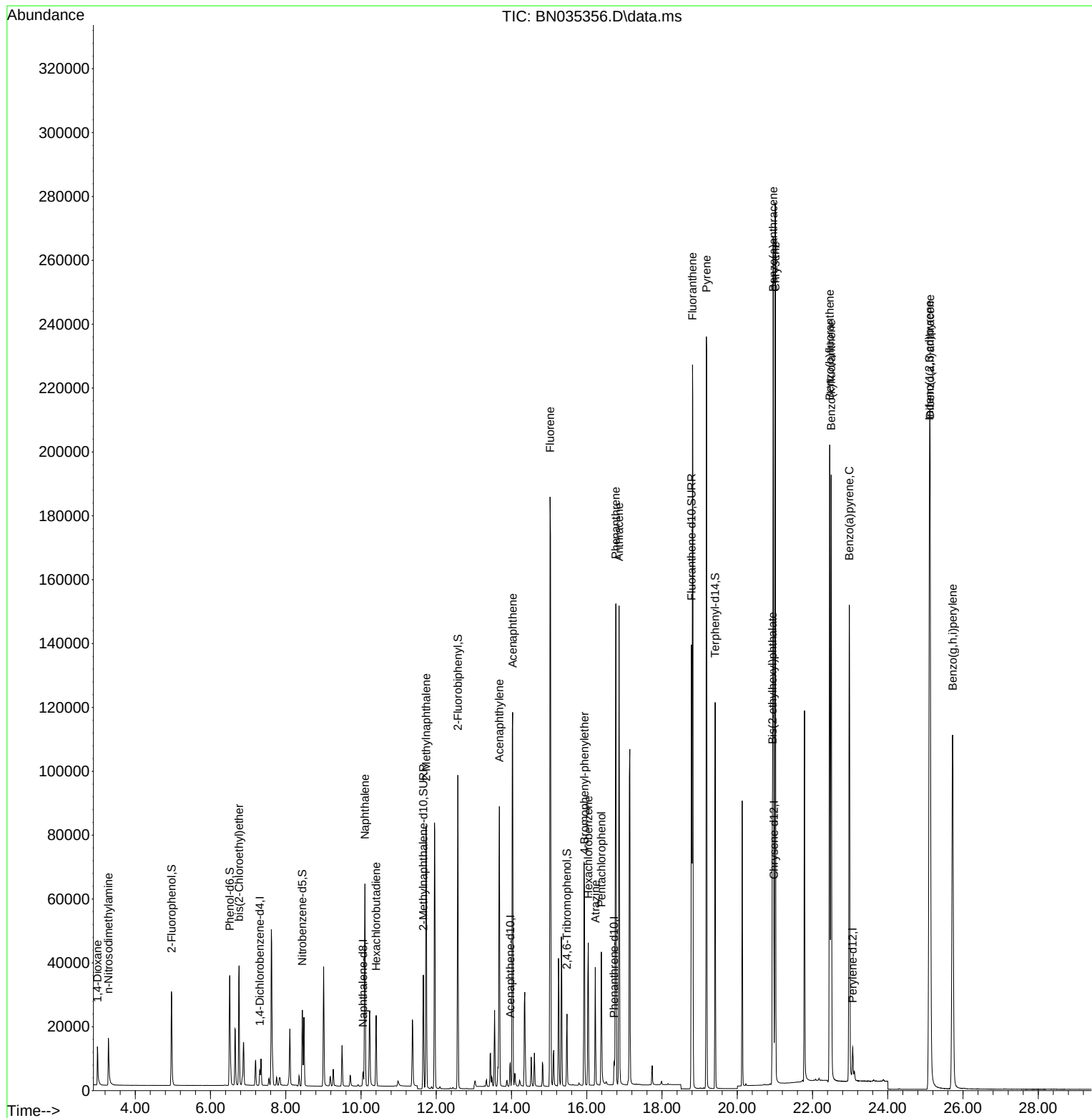
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.308  | 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              |        |      |          |       |       |          |
| 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       |

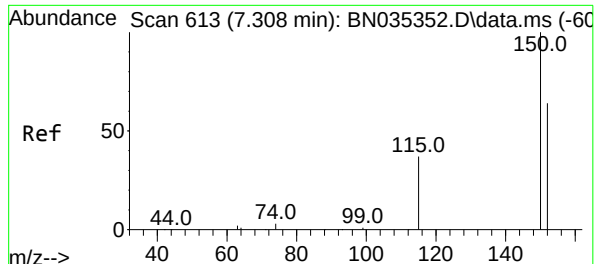
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

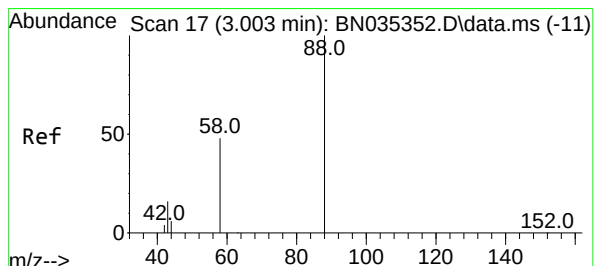
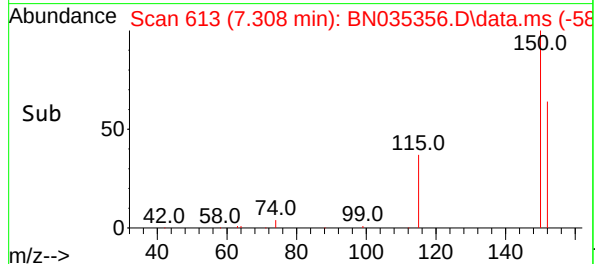
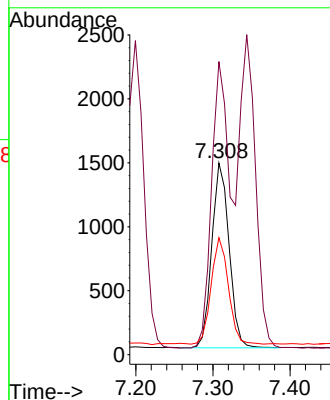
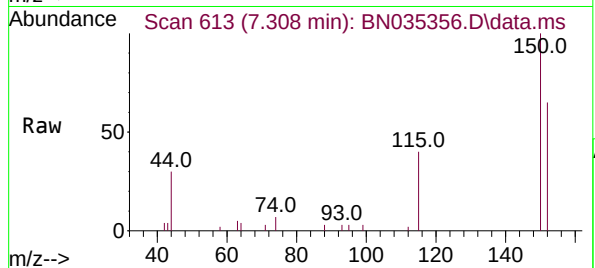




#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.308 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: BN035356.D  
Acq: 27 Nov 2024 19:09

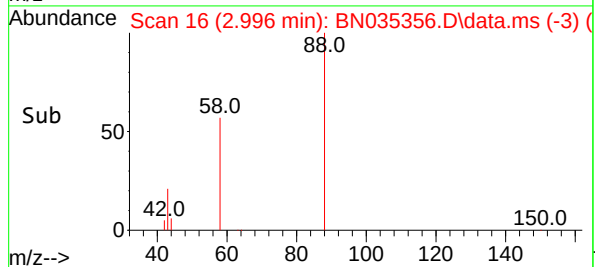
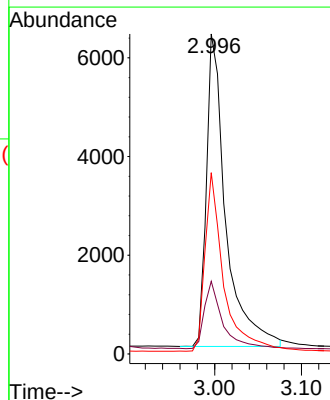
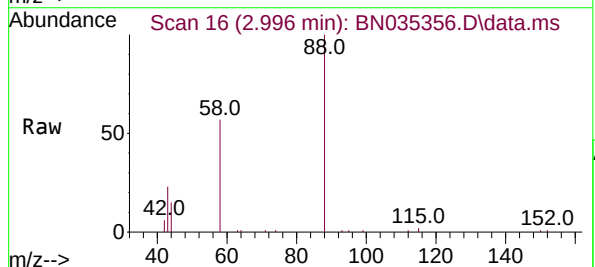
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

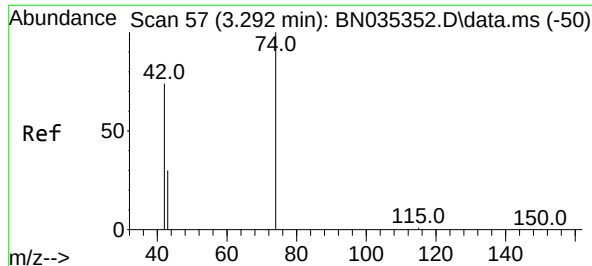
Tgt Ion:152 Resp: 2249  
Ion Ratio Lower Upper  
152 100  
150 152.9 124.0 186.0  
115 61.0 49.6 74.4



#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

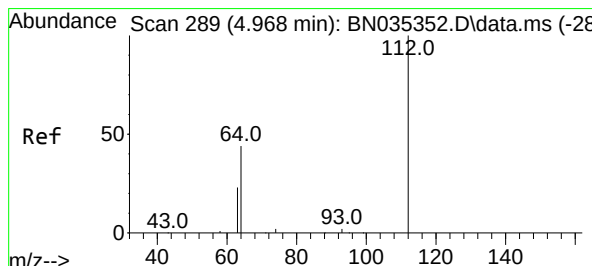
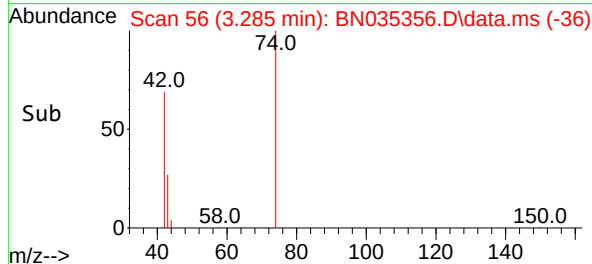
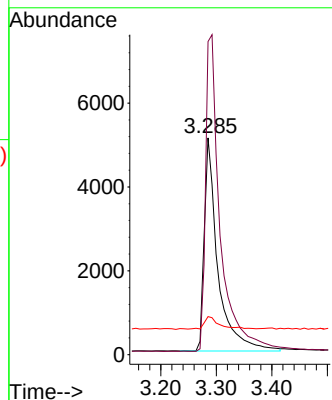
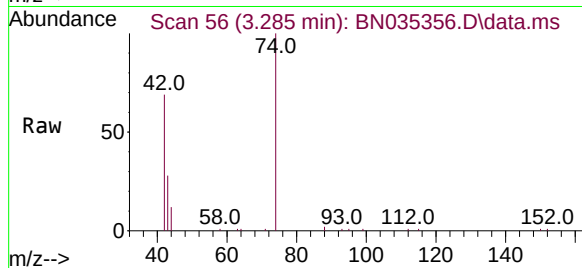




#3  
n-Nitrosodimethylamine  
Concen: 4.560 ng  
RT: 3.285 min Scan# 50  
Delta R.T. -0.007 min  
Lab File: BN035356.D  
Acq: 27 Nov 2024 19:09

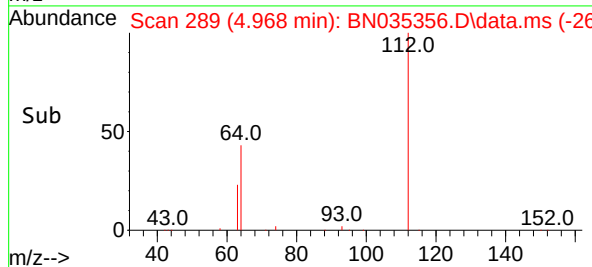
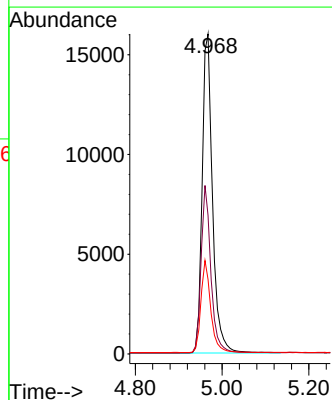
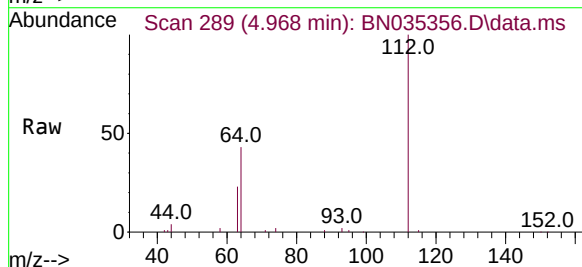
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

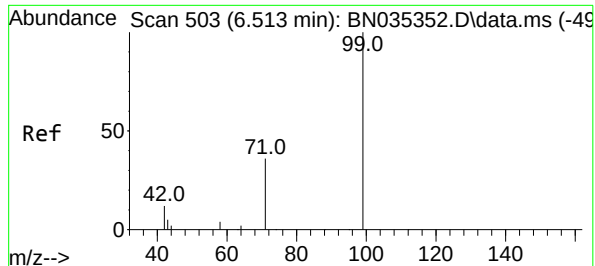
Tgt Ion: 42 Resp: 8681  
Ion Ratio Lower Upper  
42 100  
74 161.2 124.9 187.3  
44 6.7 2.2 3.4#



#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

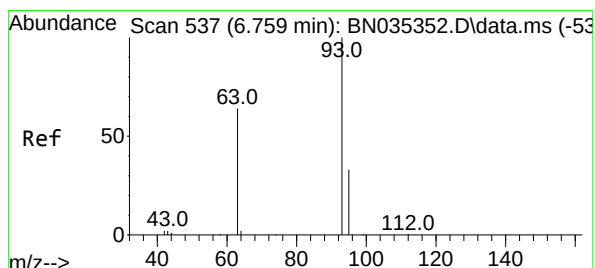
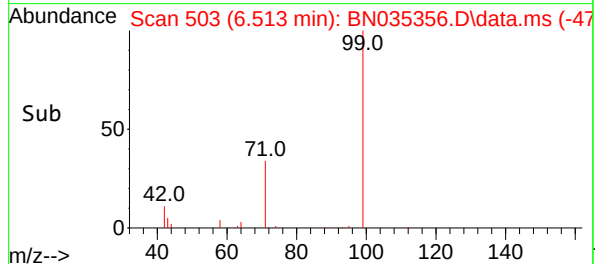
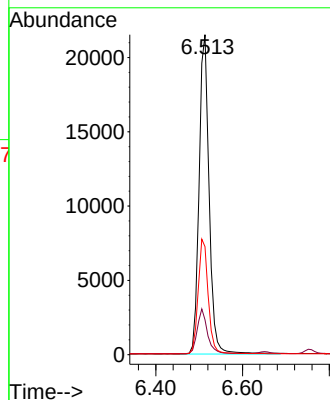
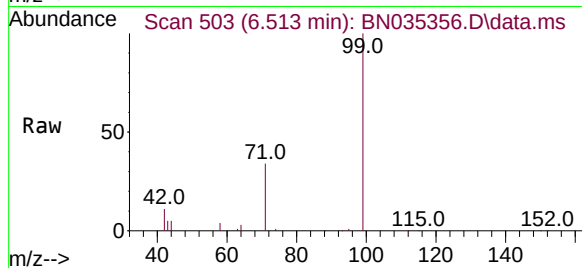




#5  
Phenol-d6  
Concen: 4.828 ng  
RT: 6.513 min Scan# 503  
Delta R.T. 0.000 min  
Lab File: BN035356.D  
Acq: 27 Nov 2024 19:09

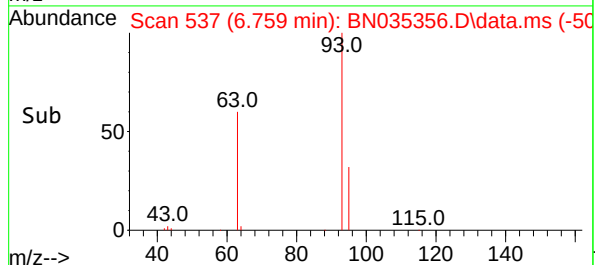
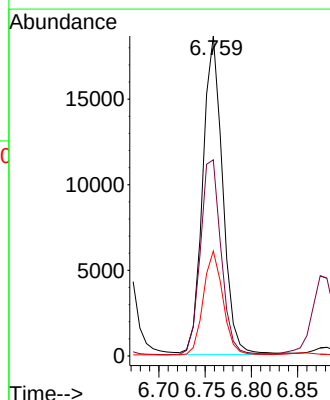
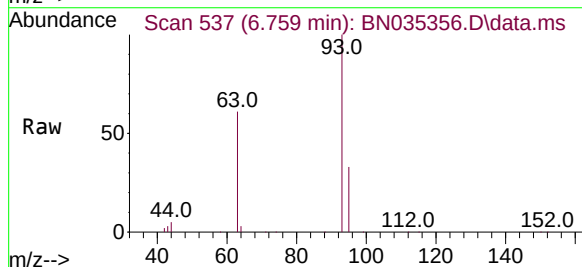
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

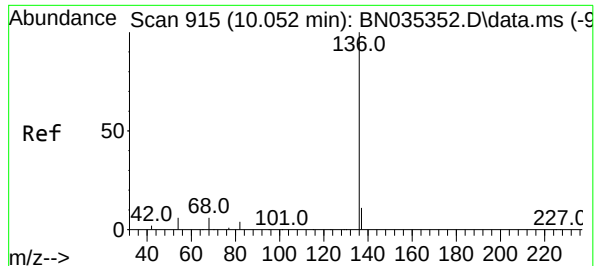
Tgt Ion: 99 Resp: 34560  
Ion Ratio Lower Upper  
99 100  
42 14.1 11.4 17.2  
71 36.4 29.3 43.9



#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

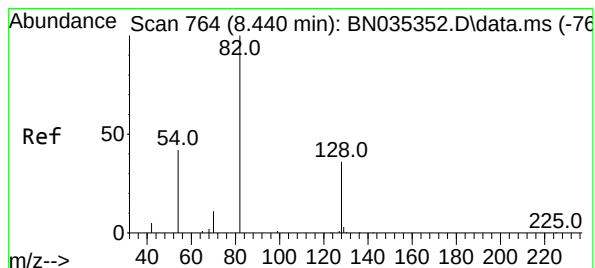
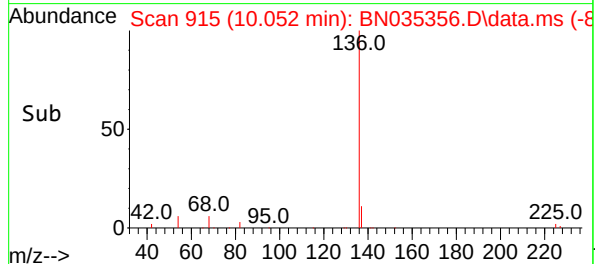
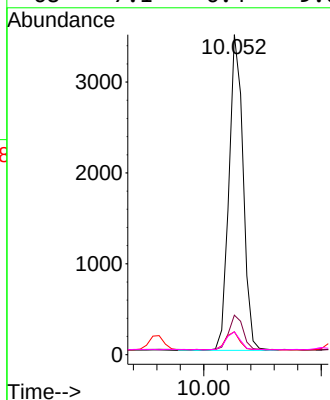
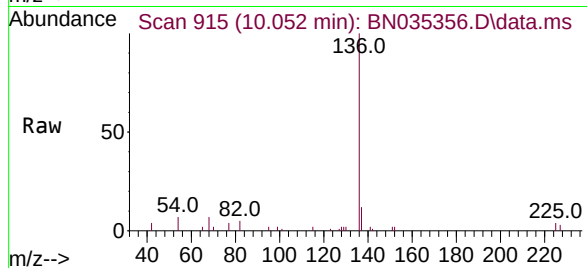




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.052 min Scan# 915  
Delta R.T. 0.000 min  
Lab File: BN035356.D  
Acq: 27 Nov 2024 19:09

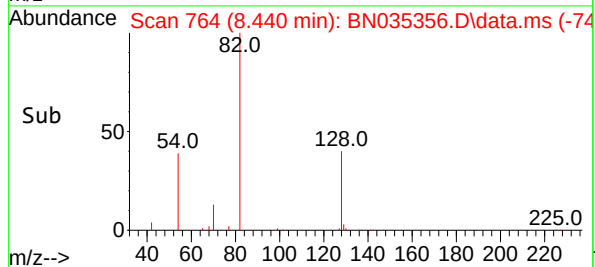
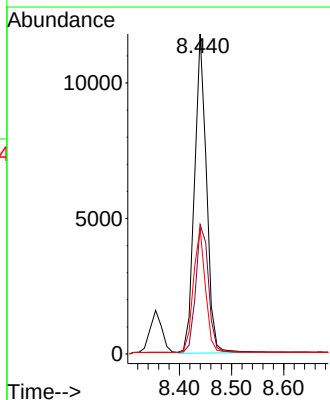
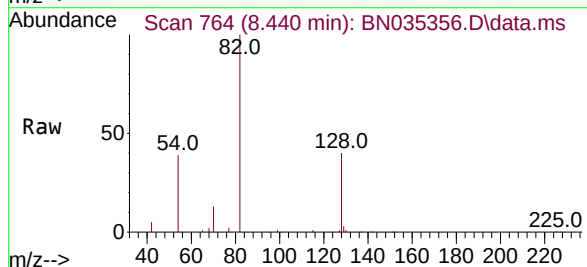
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

|          |       |       |       |
|----------|-------|-------|-------|
| 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   |

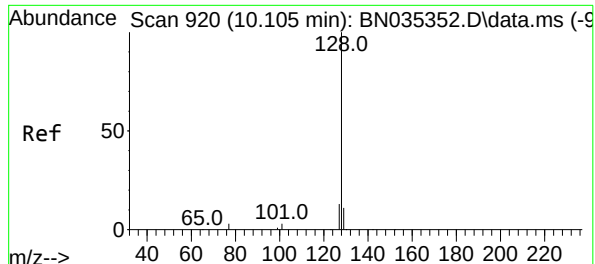


#8  
Nitrobenzene-d5  
Concen: 3.741 ng  
RT: 8.440 min Scan# 764  
Delta R.T. 0.000 min  
Lab File: BN035356.D  
Acq: 27 Nov 2024 19:09

|          |       |       |       |
|----------|-------|-------|-------|
| 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  |



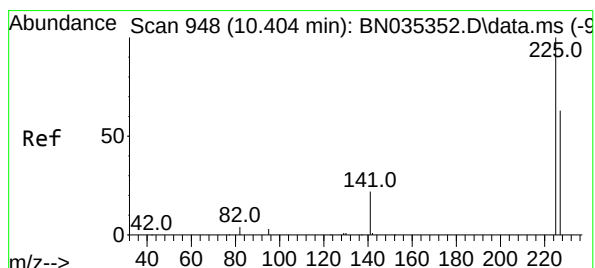
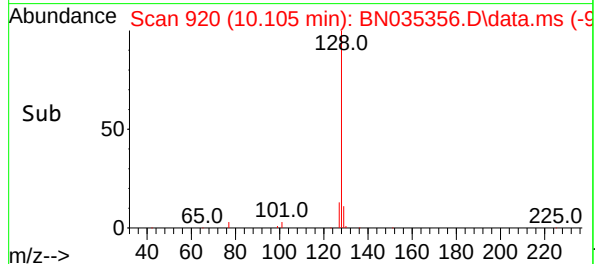
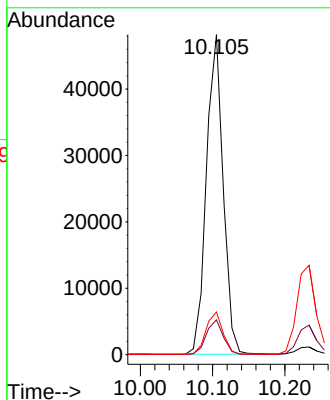
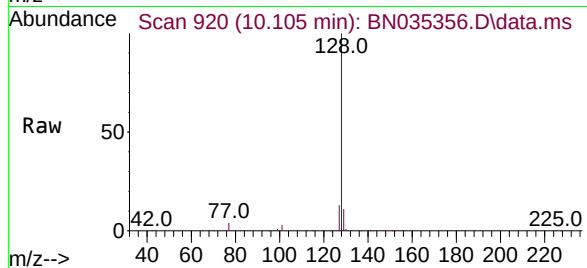




#9  
Naphthalene  
Concen: 5.123 ng  
RT: 10.105 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: BN035356.D  
Acq: 27 Nov 2024 19:09

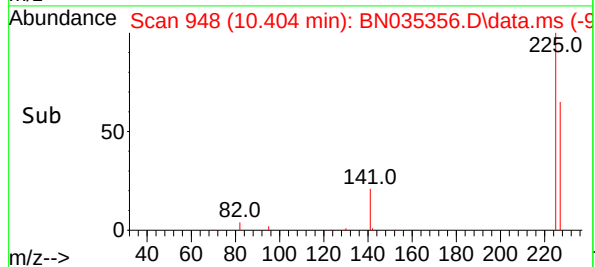
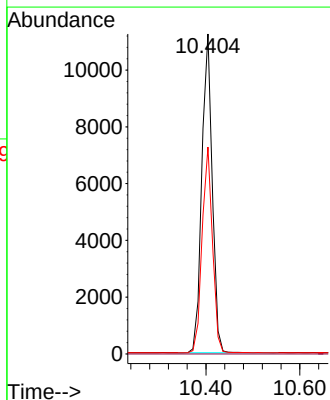
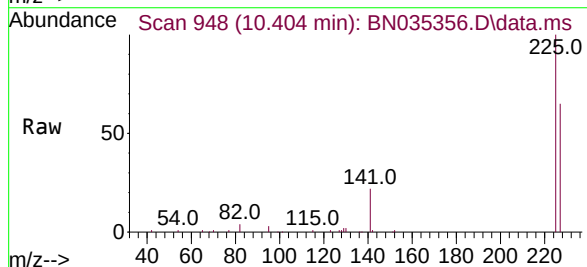
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

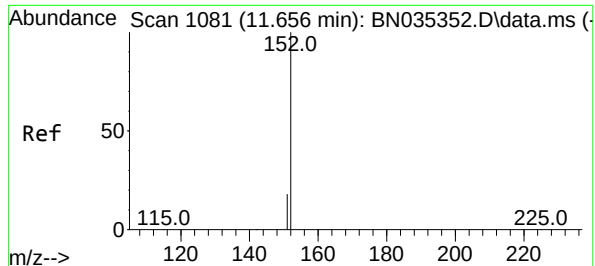
Tgt Ion:128 Resp: 77668  
Ion Ratio Lower Upper  
128 100  
129 10.9 9.8 14.6  
127 13.4 11.4 17.2



#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

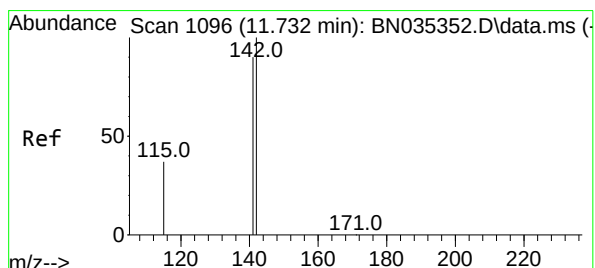
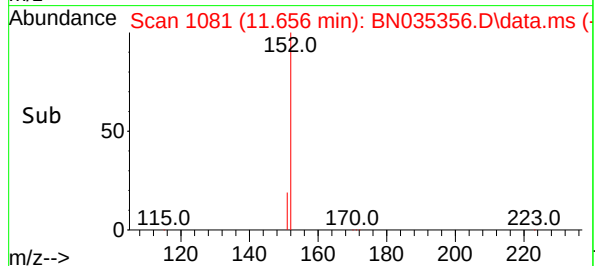
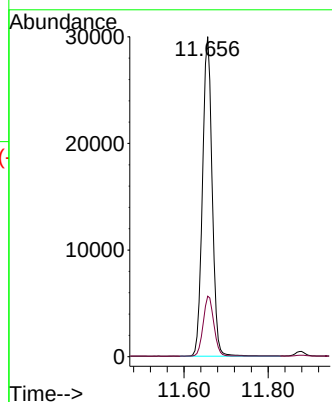
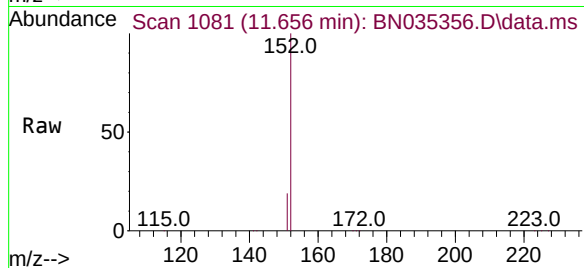




#11  
2-Methylnaphthalene-d10  
Concen: 4.601 ng  
RT: 11.656 min Scan# 1081  
Delta R.T. 0.000 min  
Lab File: BN035356.D  
Acq: 27 Nov 2024 19:09

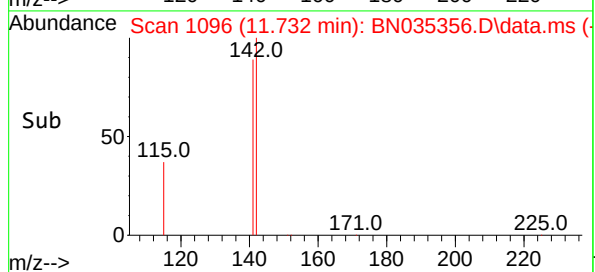
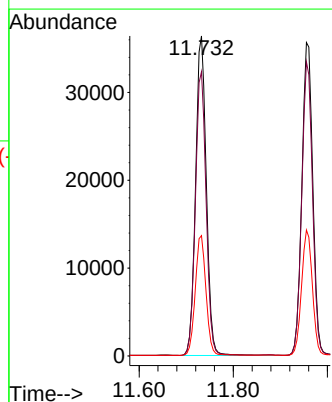
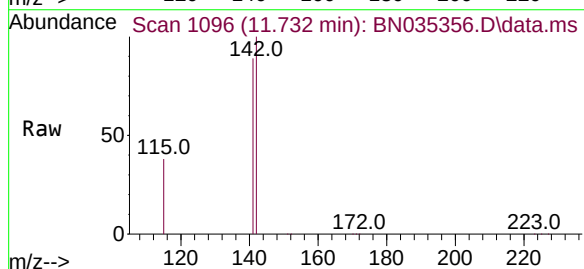
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

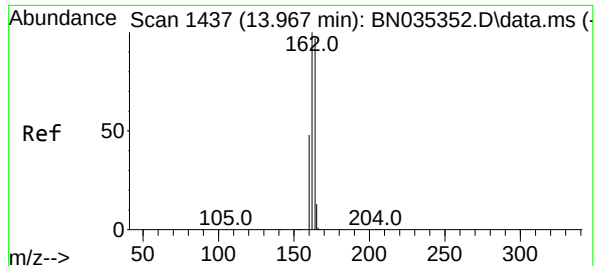
Tgt Ion:152 Resp: 47612  
Ion Ratio Lower Upper  
152 100  
151 20.8 16.6 25.0



#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

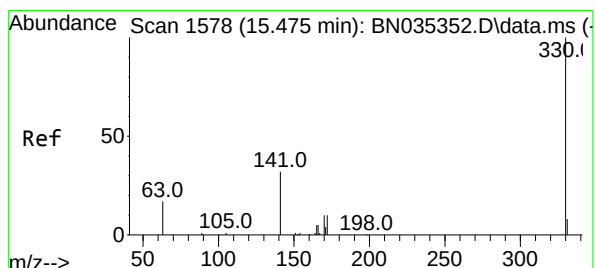
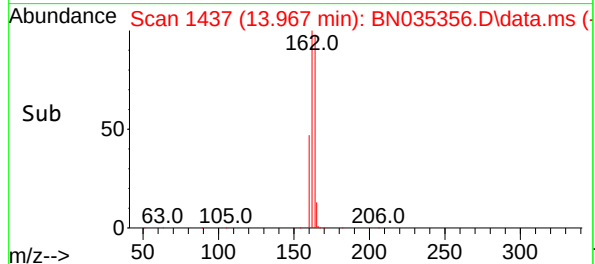
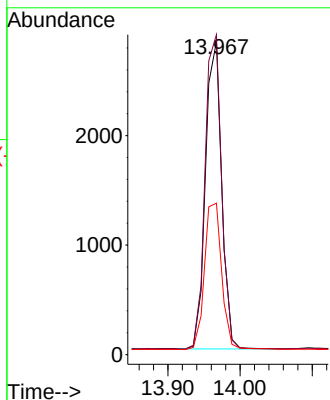
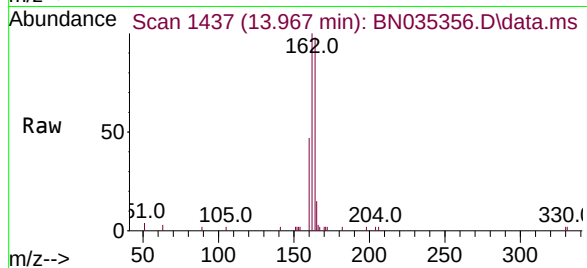




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.967 min Scan# 1437  
Delta R.T. 0.000 min  
Lab File: BN035356.D  
Acq: 27 Nov 2024 19:09

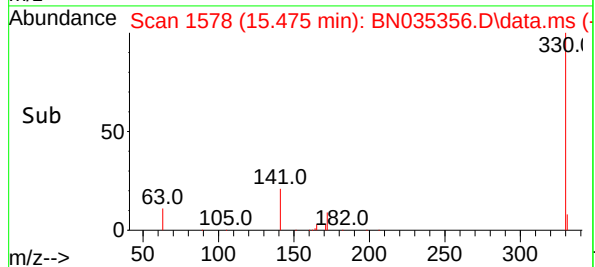
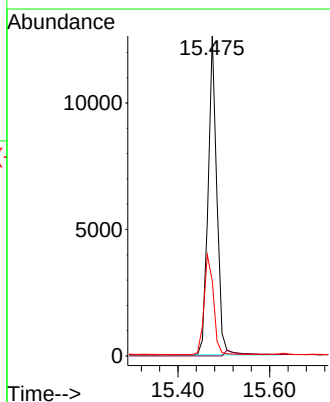
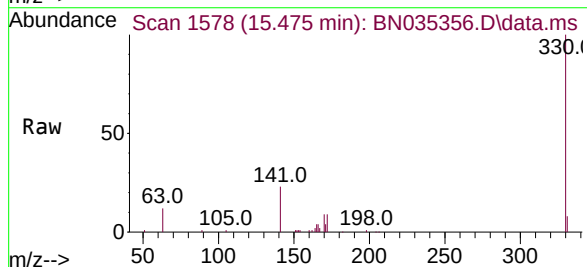
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

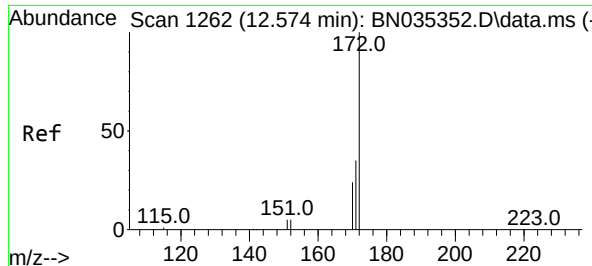
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 102.2 | 82.2  | 123.2 |
| 160     | 48.4  | 40.1  | 60.1  |



#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 | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 0.0   | 0.0   | 0.0   |
| 141     | 33.4  | 26.6  | 40.0  |

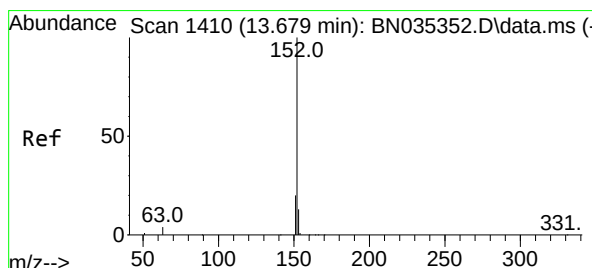
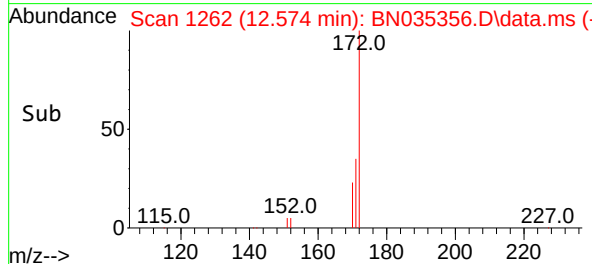
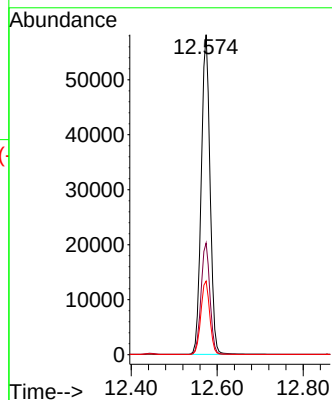
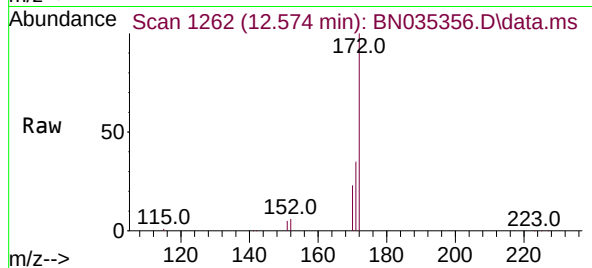




#15  
2-Fluorobiphenyl  
Concen: 4.650 ng  
RT: 12.574 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: BN035356.D  
Acq: 27 Nov 2024 19:09

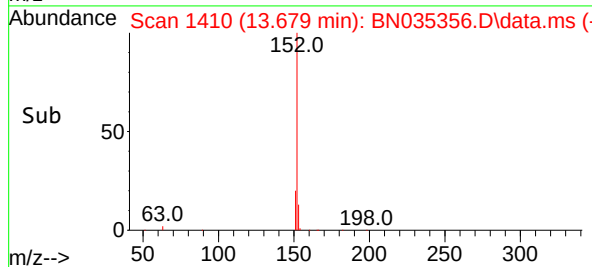
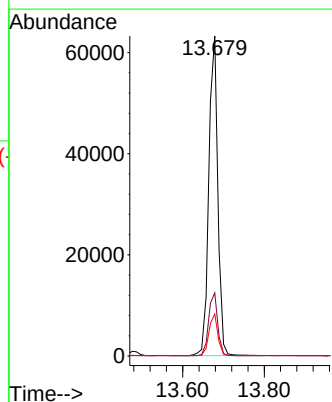
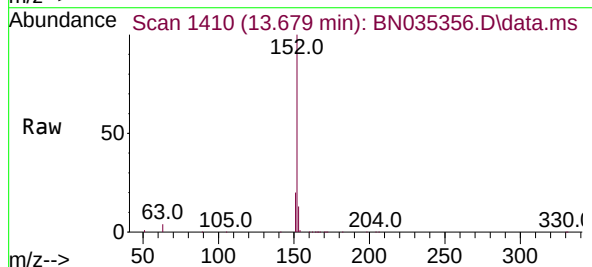
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

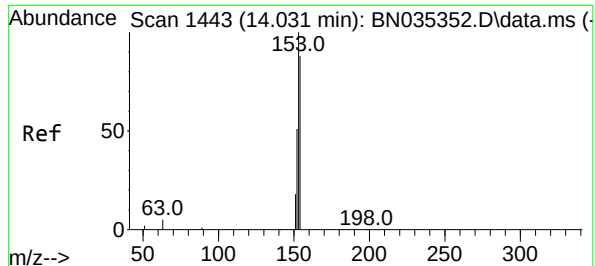
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 34.9  | 29.0  | 43.4  |
| 170     | 23.0  | 19.8  | 29.8  |



#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 | 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

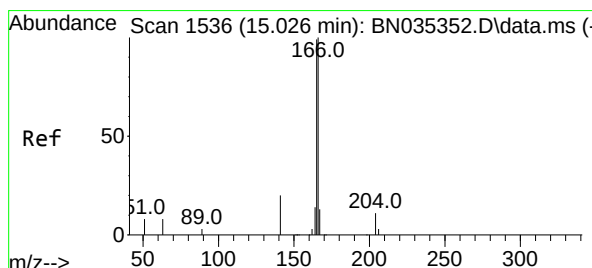
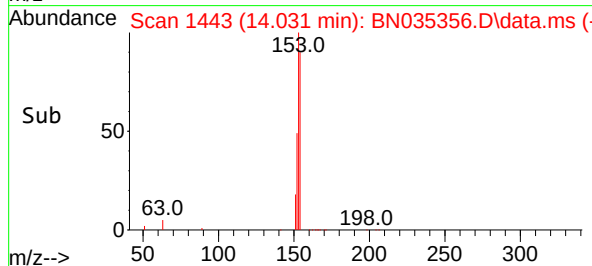
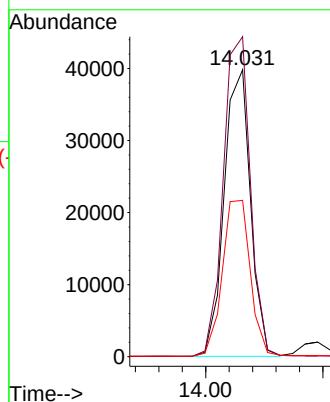
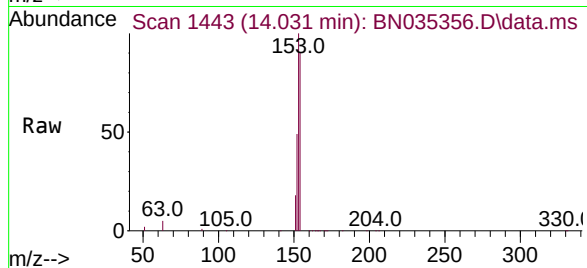
Tgt Ion:154 Resp: 62170

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

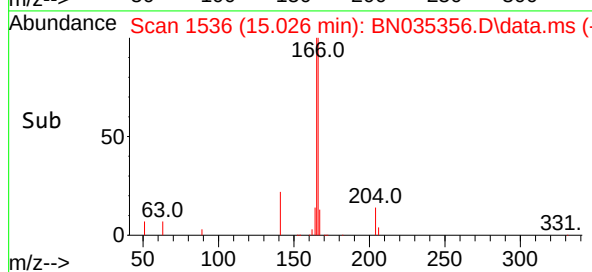
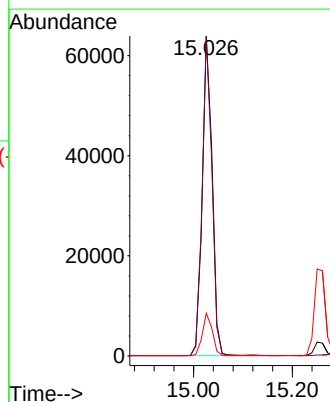
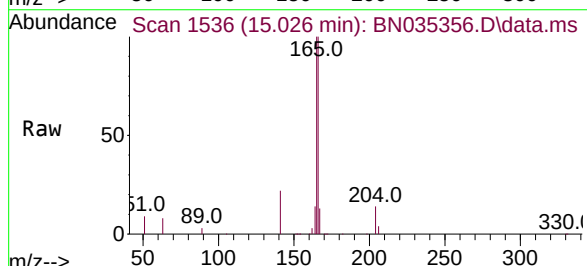
Tgt Ion:166 Resp: 88648

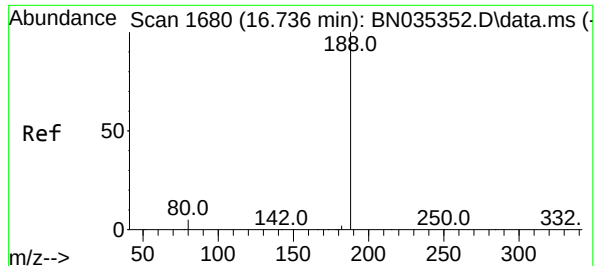
Ion Ratio Lower Upper

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

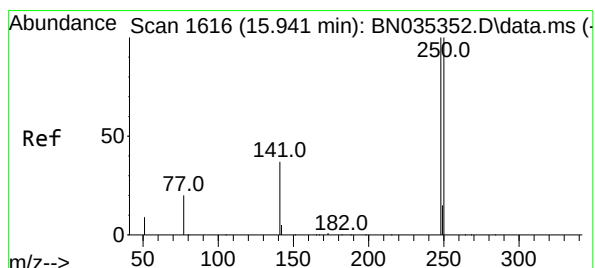
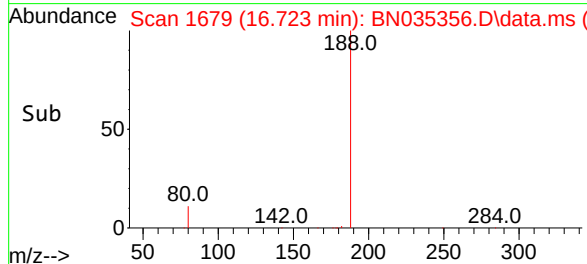
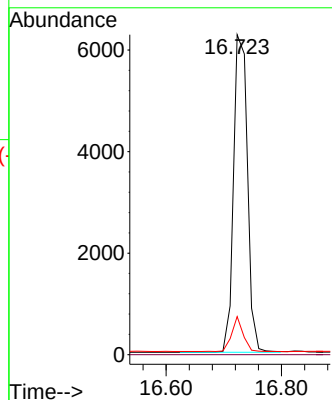
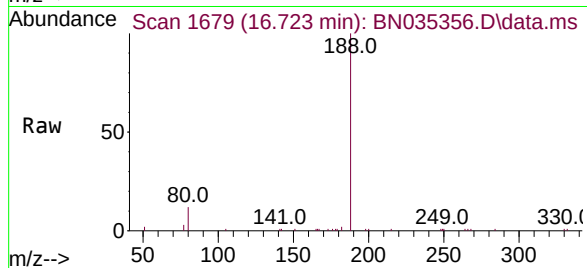
Tgt Ion:188 Resp: 10479

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

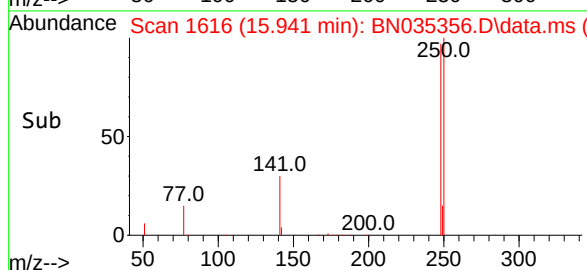
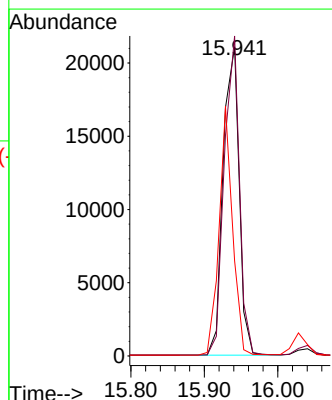
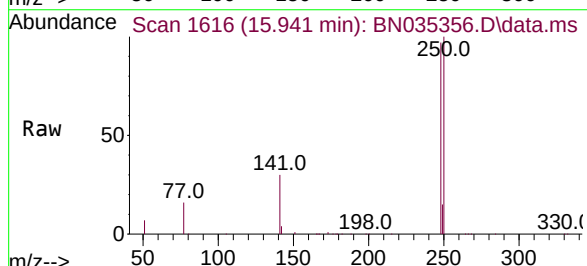
Tgt Ion:248 Resp: 31947

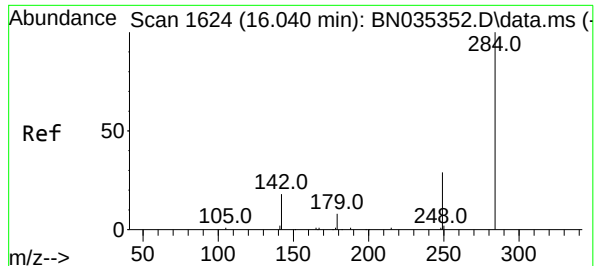
Ion Ratio Lower Upper

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

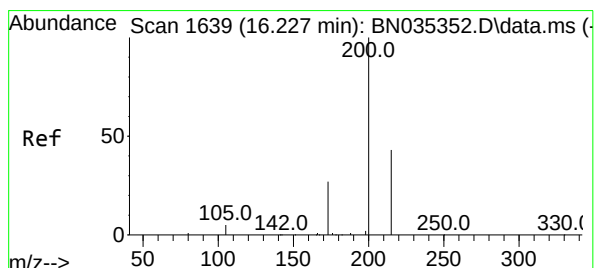
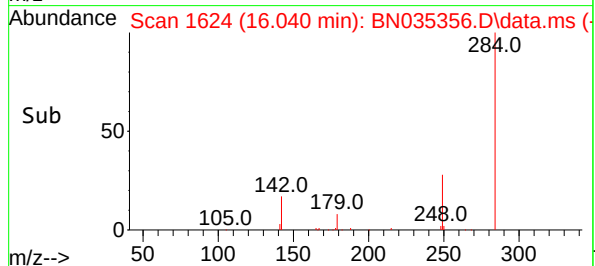
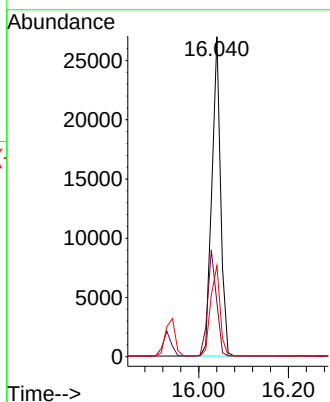
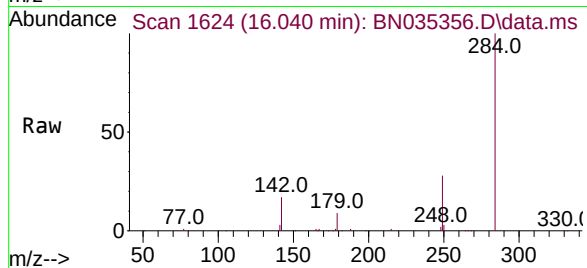
Tgt Ion:284 Resp: 36315

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

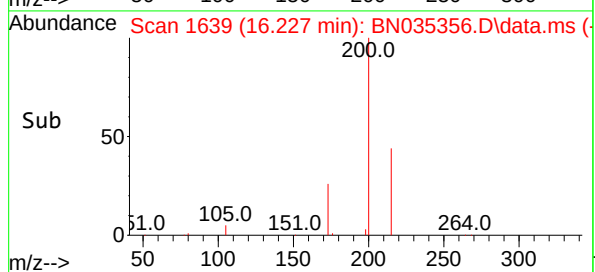
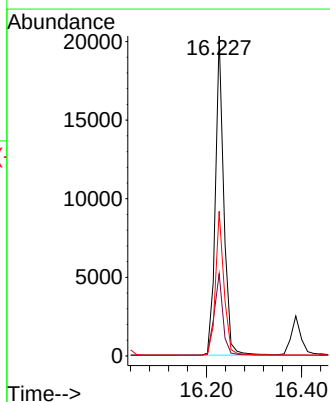
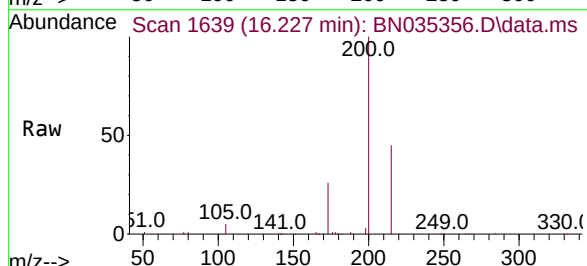
Tgt Ion:200 Resp: 25034

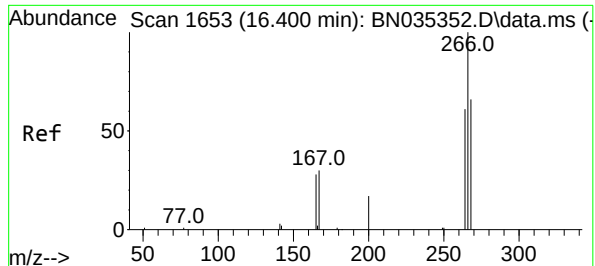
Ion Ratio Lower Upper

200 100

173 25.7 24.1 36.1

215 45.2 36.9 55.3

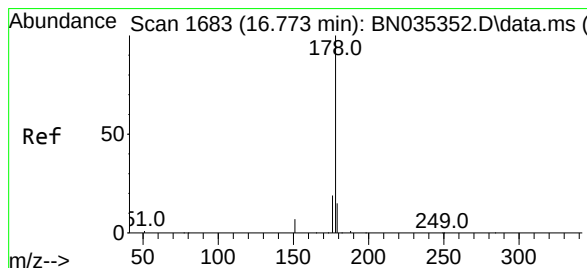
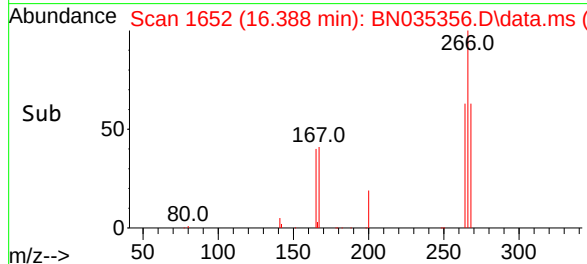
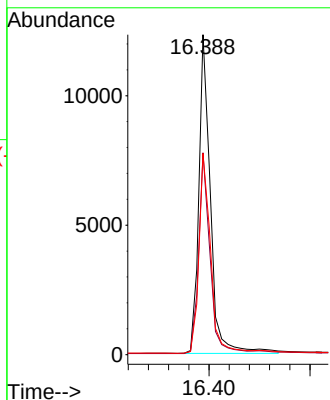
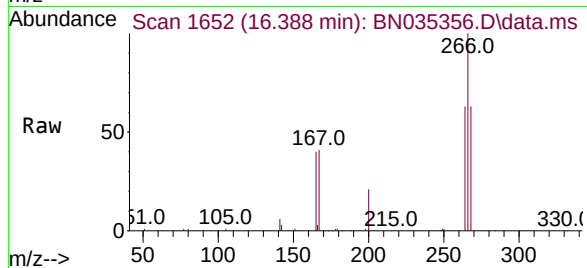




#24  
Pentachlorophenol  
Concen: 6.083 ng  
RT: 16.388 min Scan# 1652  
Delta R.T. -0.012 min  
Lab File: BN035356.D  
Acq: 27 Nov 2024 19:09

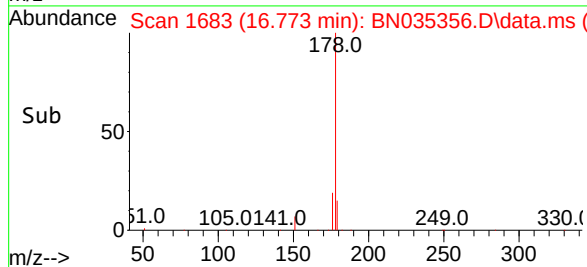
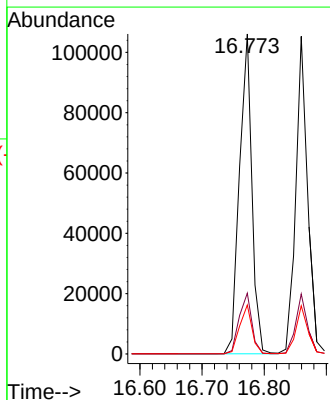
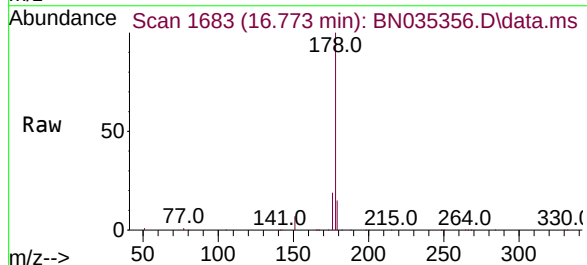
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

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

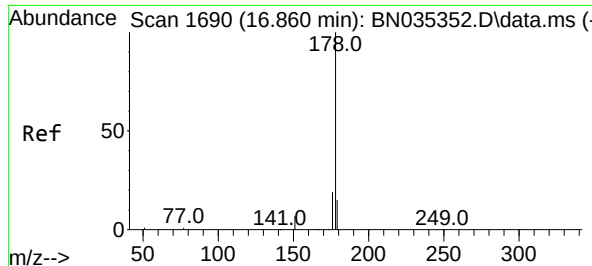


#25  
Phenanthrene  
Concen: 5.343 ng  
RT: 16.773 min Scan# 1683  
Delta R.T. 0.000 min  
Lab File: BN035356.D  
Acq: 27 Nov 2024 19:09

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



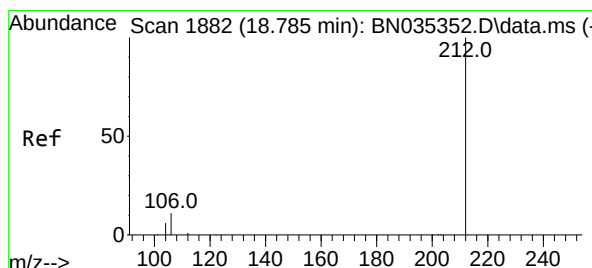
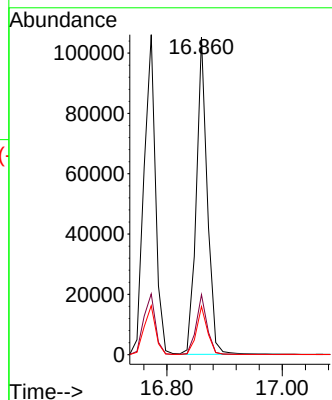
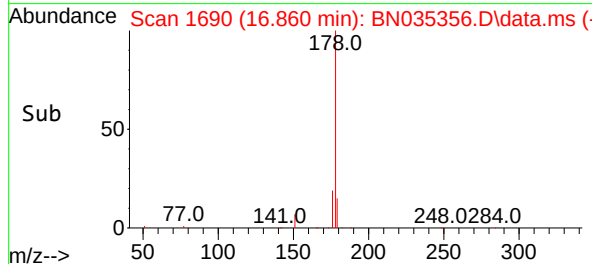
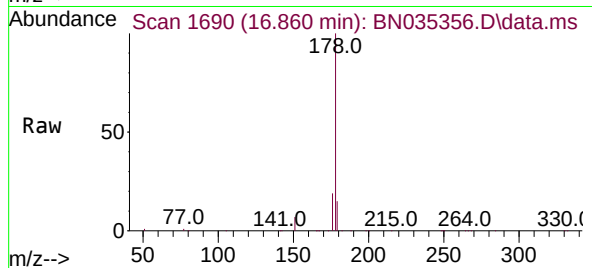




#26  
Anthracene  
Concen: 5.503 ng  
RT: 16.860 min Scan# 1690  
Delta R.T. 0.000 min  
Lab File: BN035356.D  
Acq: 27 Nov 2024 19:09

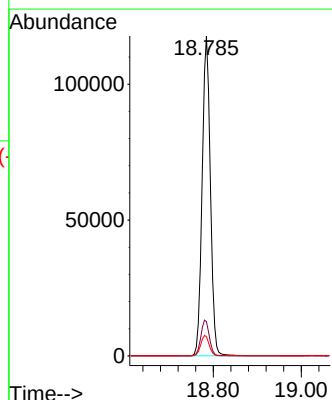
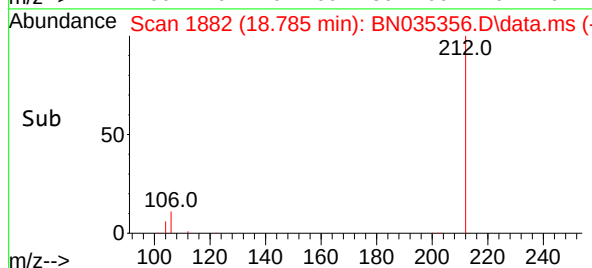
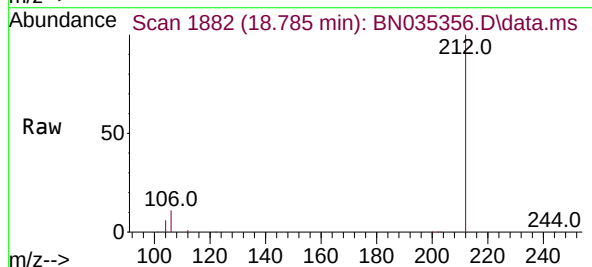
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

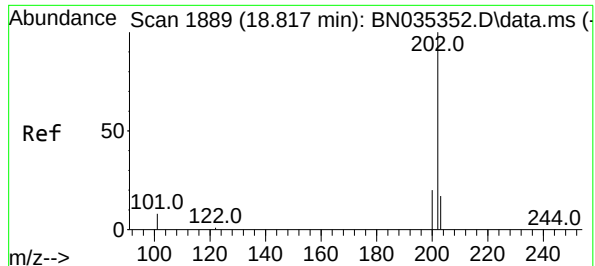
Tgt Ion:178 Resp: 139399  
Ion Ratio Lower Upper  
178 100  
176 18.7 15.0 22.6  
179 15.1 12.6 18.8



#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

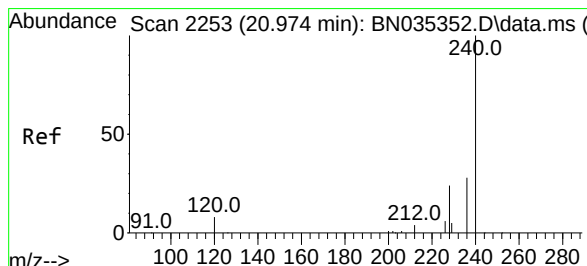
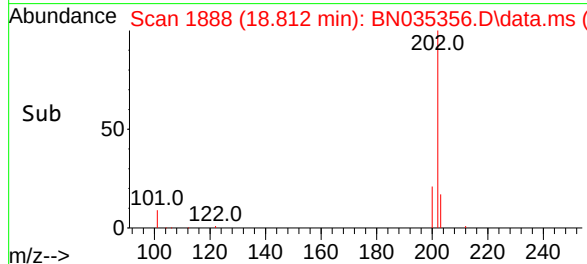
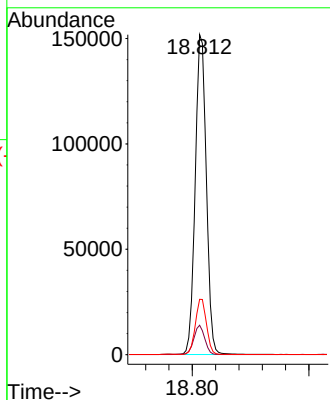
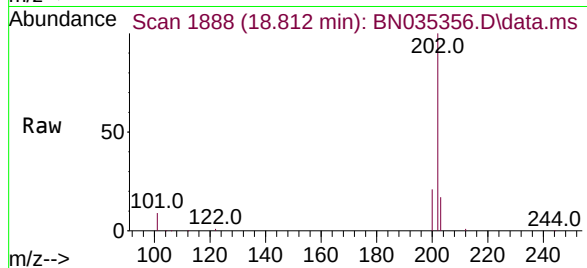




#28  
Fluoranthene  
Concen: 5.270 ng  
RT: 18.812 min Scan# 1888  
Delta R.T. -0.005 min  
Lab File: BN035356.D  
Acq: 27 Nov 2024 19:09

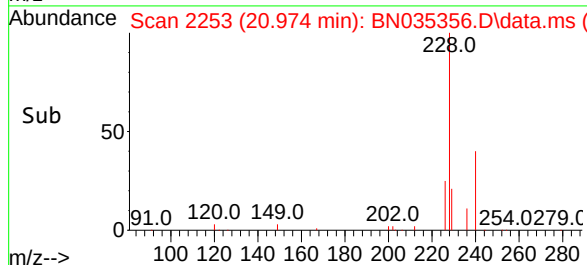
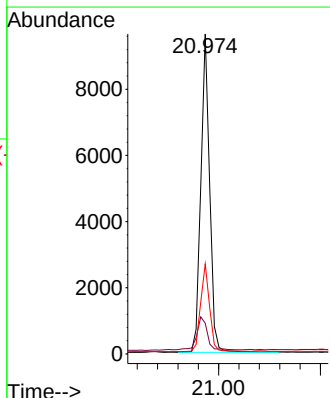
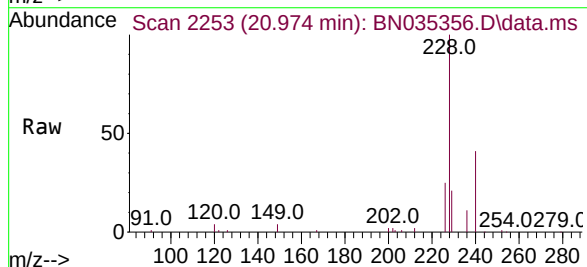
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

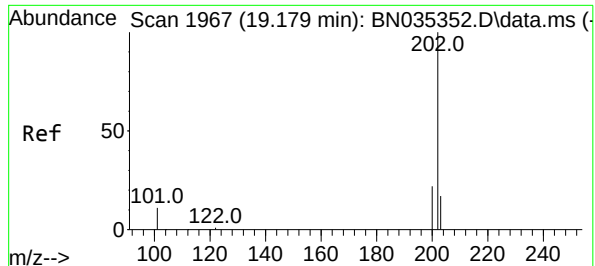
Tgt Ion:202 Resp: 199850  
Ion Ratio Lower Upper  
202 100  
101 9.1 7.4 11.0  
203 17.4 13.7 20.5



#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 :

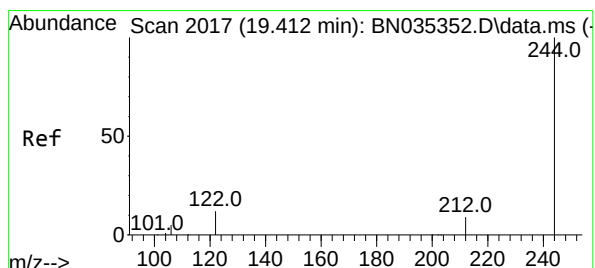
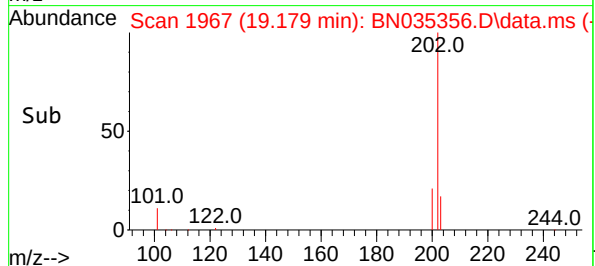
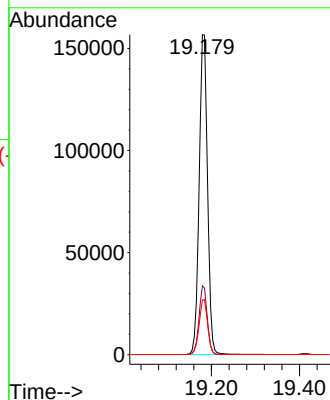
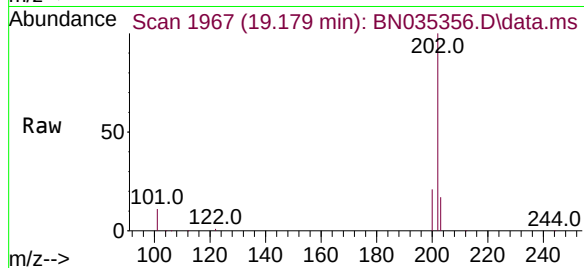
BNA\_N

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

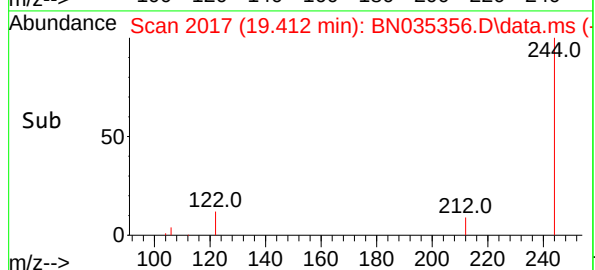
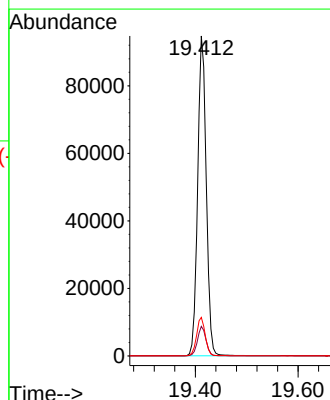
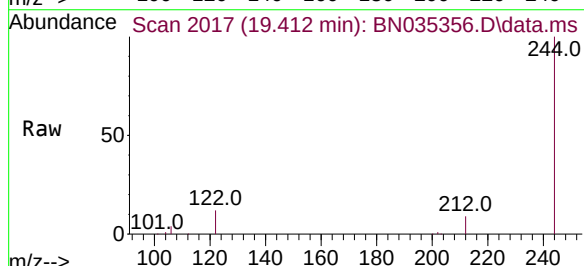
Delta R.T. 0.000 min

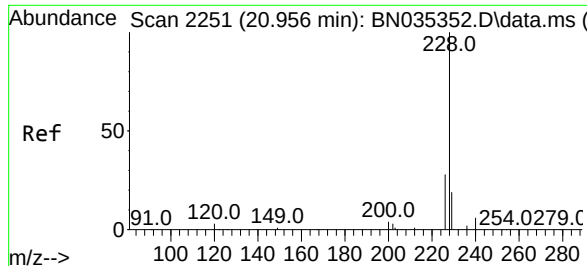
Lab File: BN035356.D

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  |

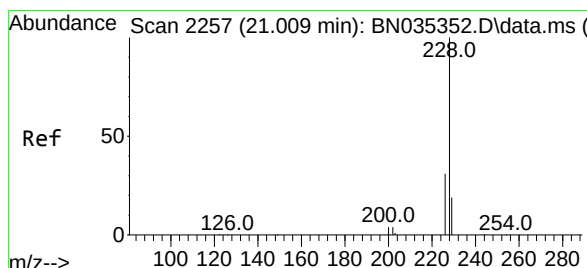
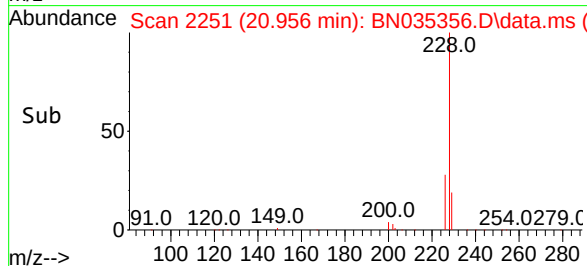
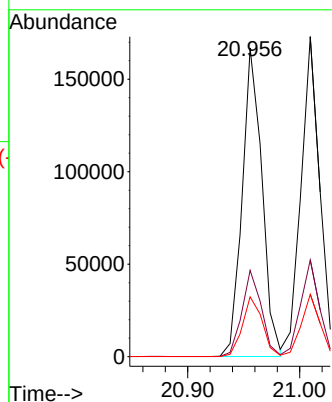
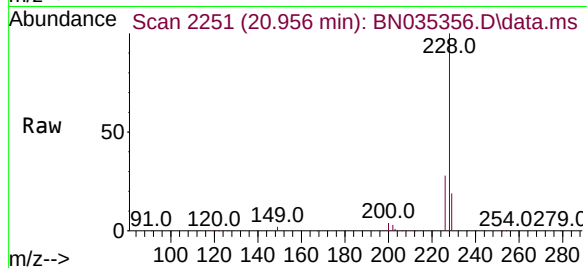




#32  
Benzo(a)anthracene  
Concen: 5.128 ng  
RT: 20.956 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: BN035356.D  
Acq: 27 Nov 2024 19:09

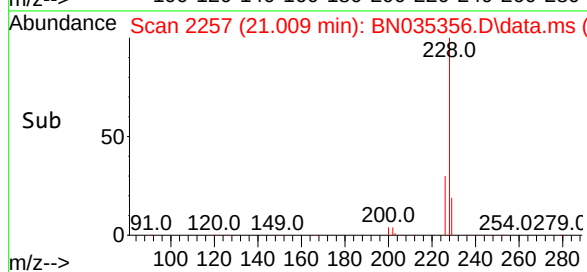
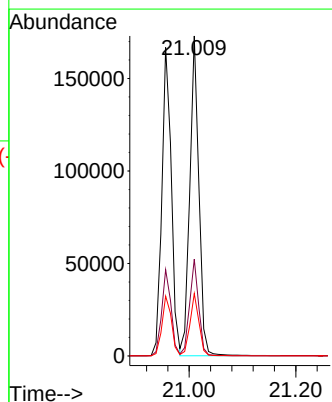
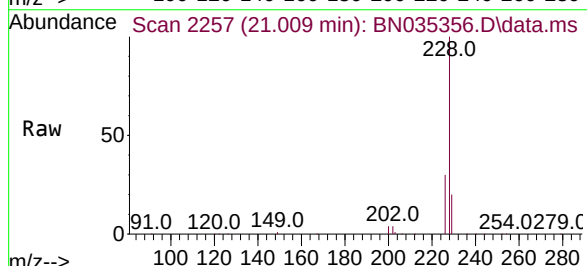
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

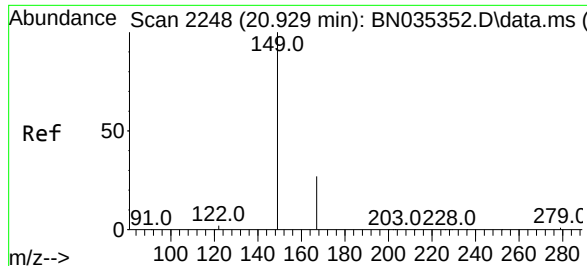
Tgt Ion:228 Resp: 205712  
Ion Ratio Lower Upper  
228 100  
226 27.9 22.5 33.7  
229 19.4 15.8 23.8



#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

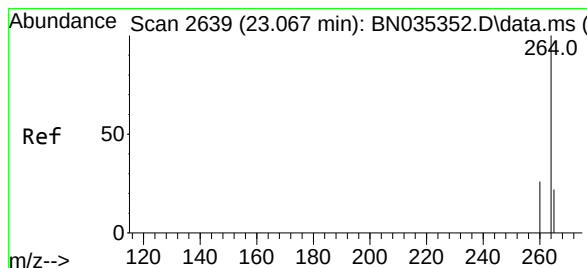
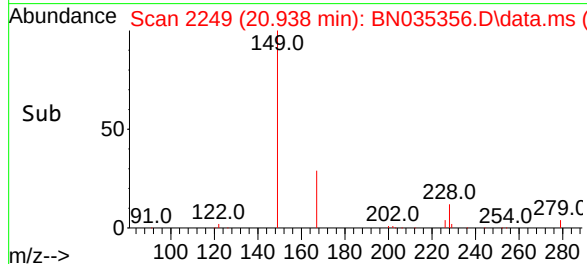
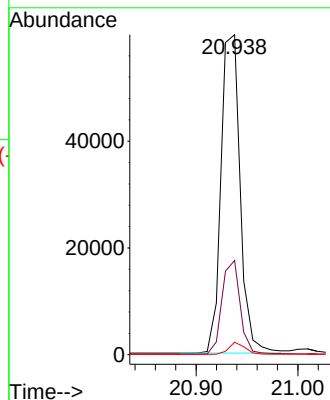
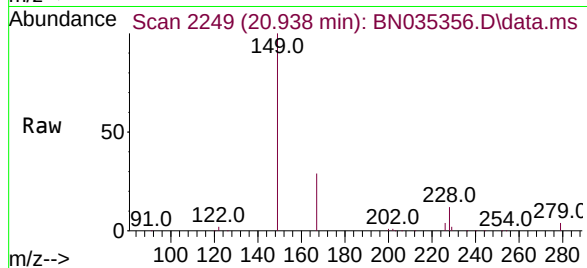




#34  
Bis(2-ethylhexyl)phthalate  
Concen: 3.721 ng  
RT: 20.938 min Scan# 21  
Delta R.T. 0.009 min  
Lab File: BN035356.D  
Acq: 27 Nov 2024 19:09

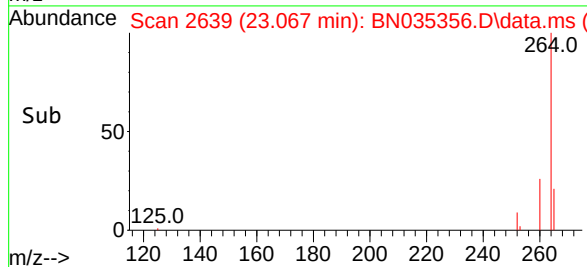
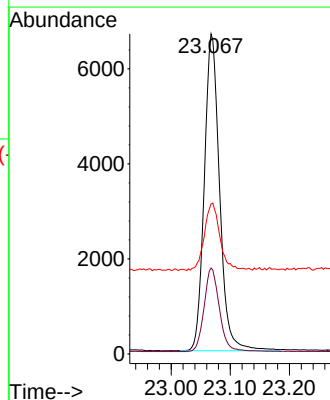
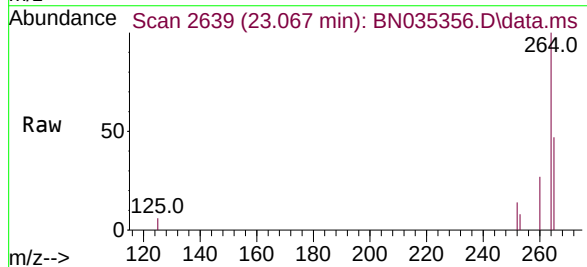
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

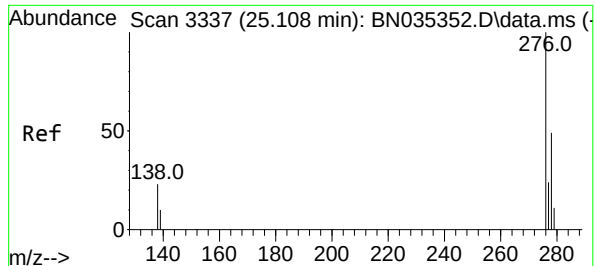
Tgt Ion:149 Resp: 78322  
Ion Ratio Lower Upper  
149 100  
167 28.1 22.2 33.4  
279 3.2 2.7 4.1



#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

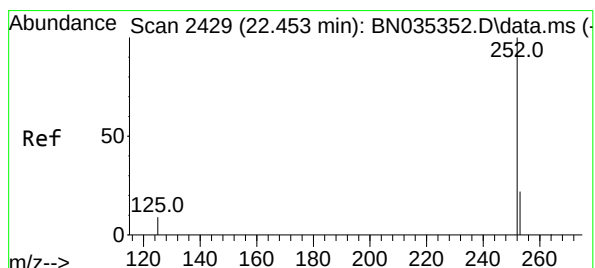
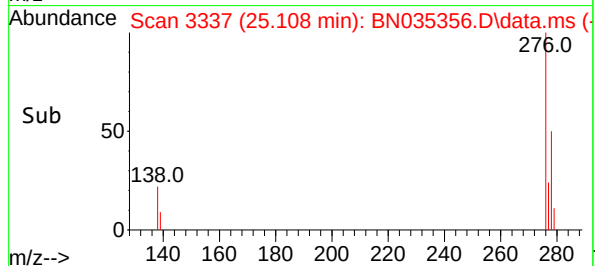
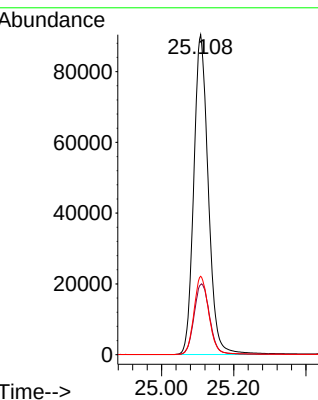
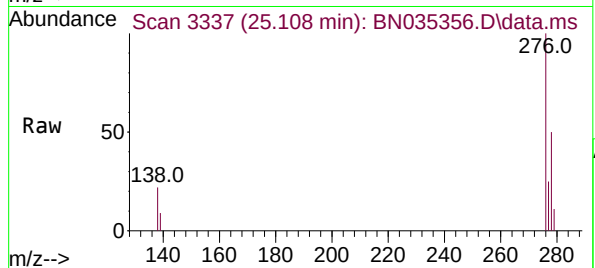
Tgt Ion:276 Resp: 252709

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

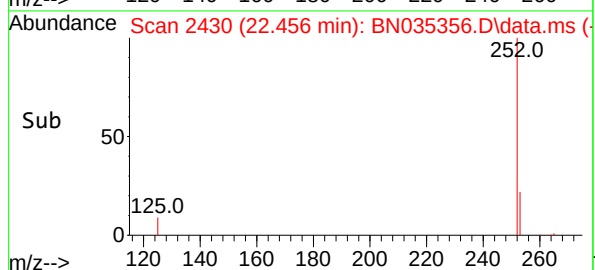
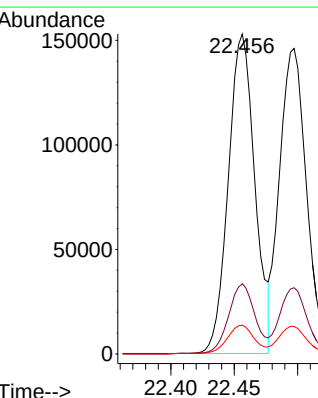
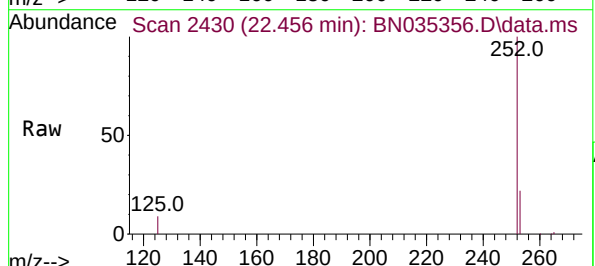
Tgt Ion:252 Resp: 241201

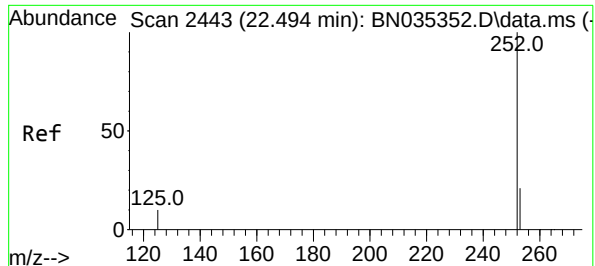
Ion Ratio Lower Upper

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# 2443

Delta R.T. 0.003 min

Lab File: BN035356.D

Acq: 27 Nov 2024 19:09

Instrument :

BNA\_N

ClientSampleId :

SSTDICC5.0

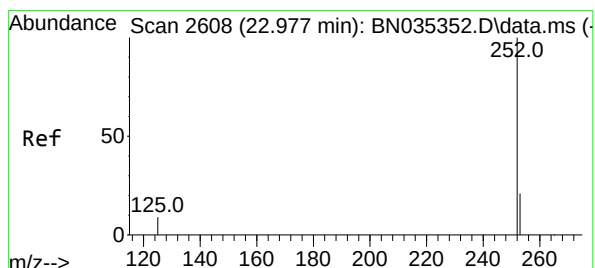
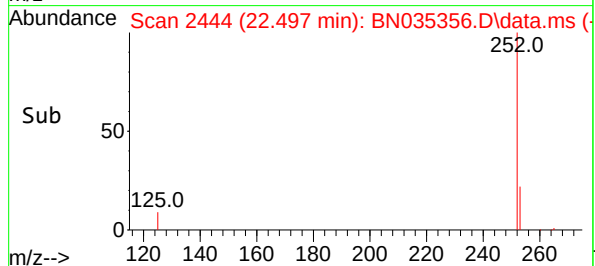
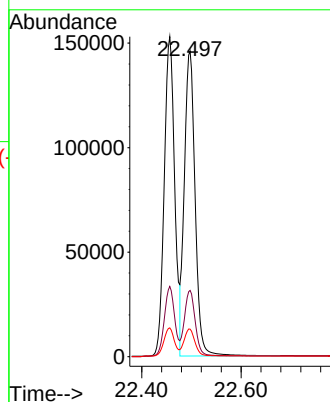
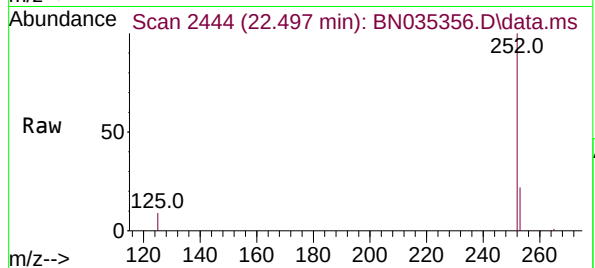
Tgt Ion:252 Resp: 220146

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

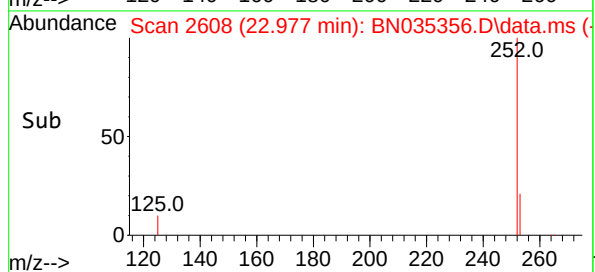
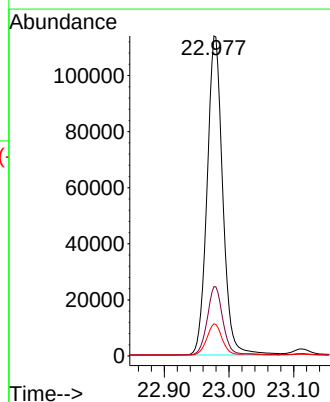
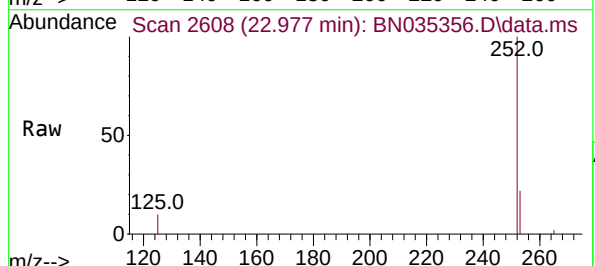
Tgt Ion:252 Resp: 190665

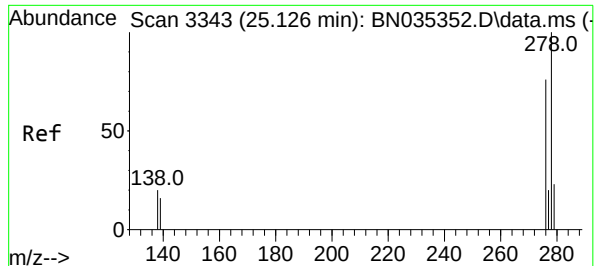
Ion Ratio Lower Upper

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

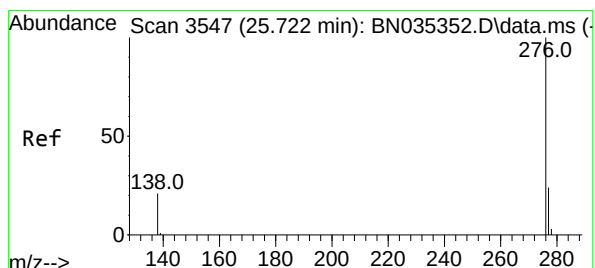
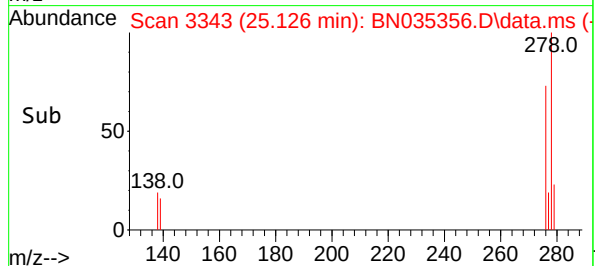
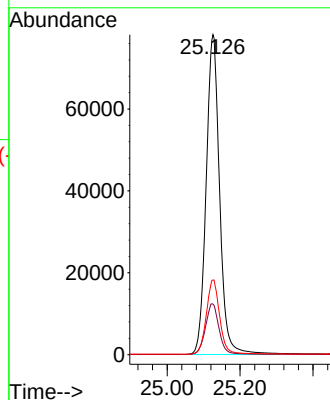
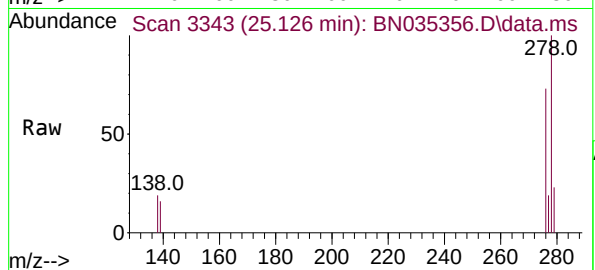
Tgt Ion:278 Resp: 199852

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

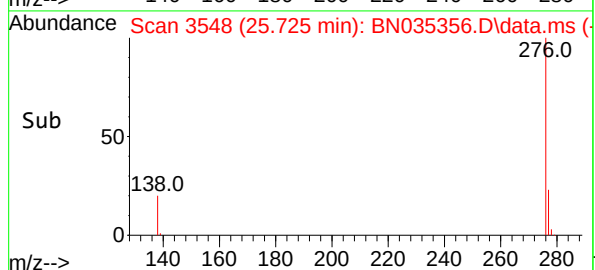
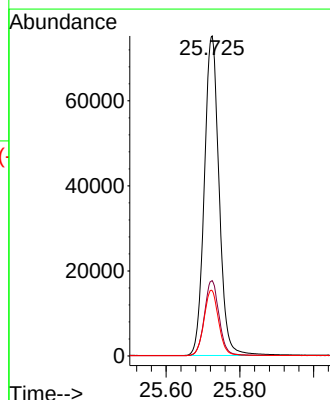
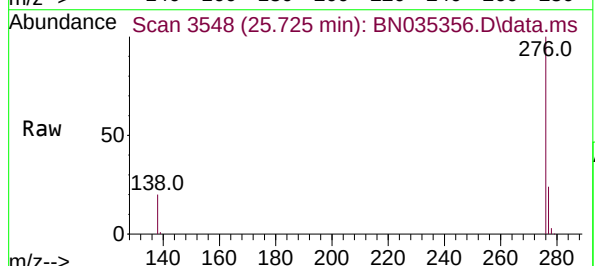
Tgt Ion:276 Resp: 209119

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              |        |      |          |       |       |          |
| 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

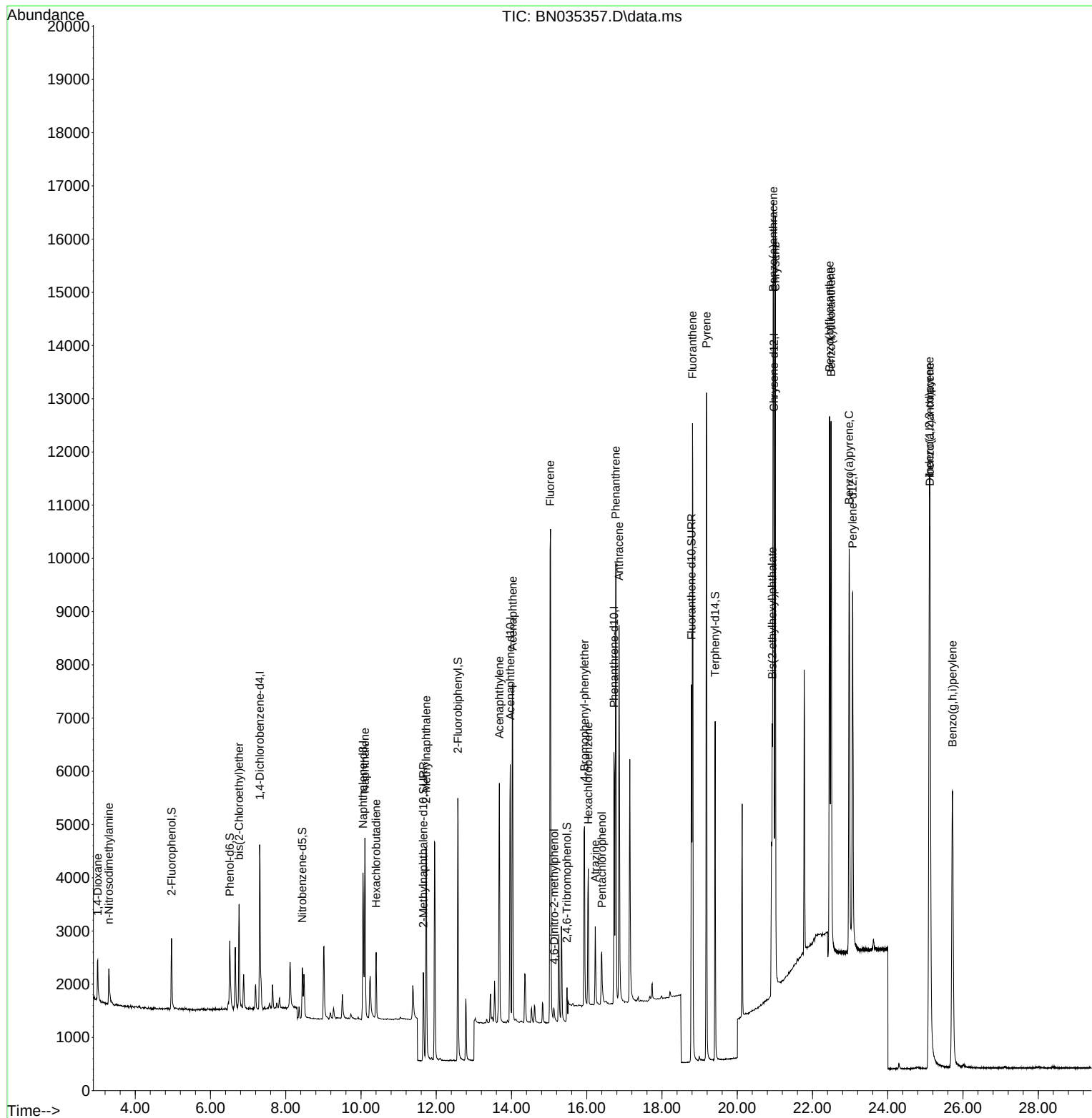
## Manual Integrations

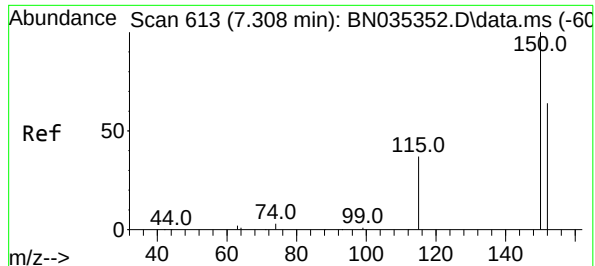
## APPROVED

Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024

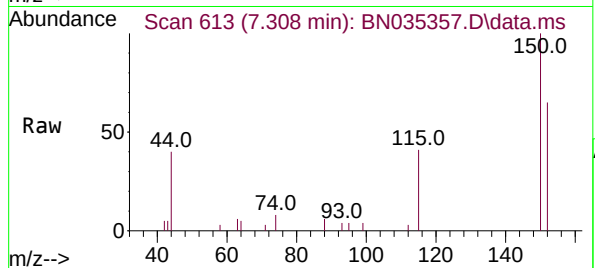
Quant Time: Nov 27 23:06:03 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Nov 27 23:03:24 2024  
Response via : Initial Calibration





#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.308 min Scan# 613  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

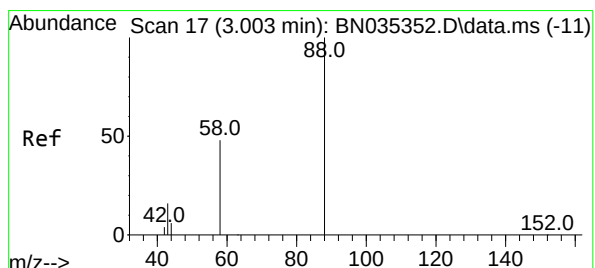
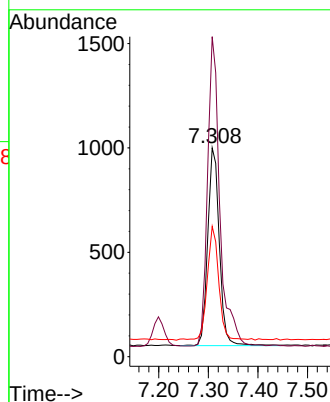
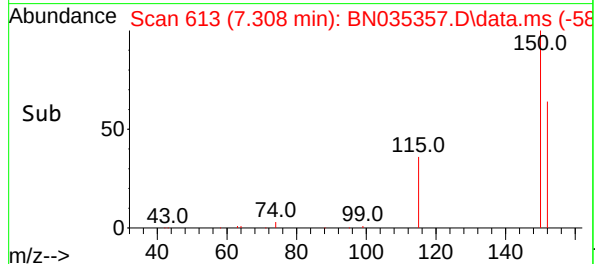
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112724



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

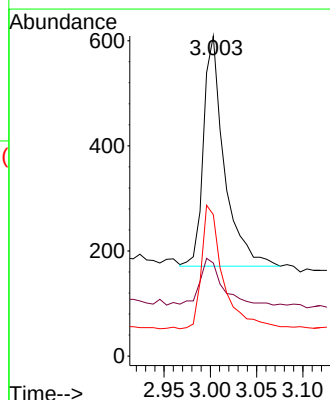
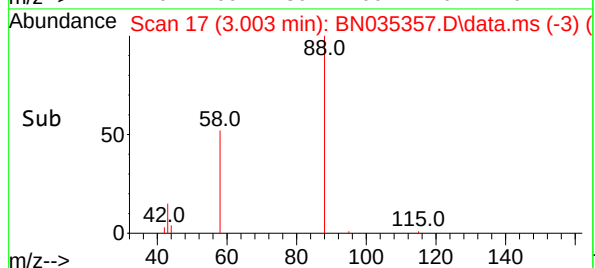
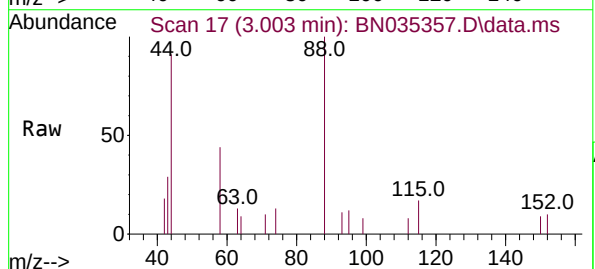
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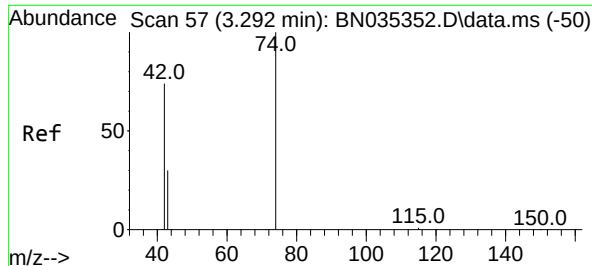
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#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

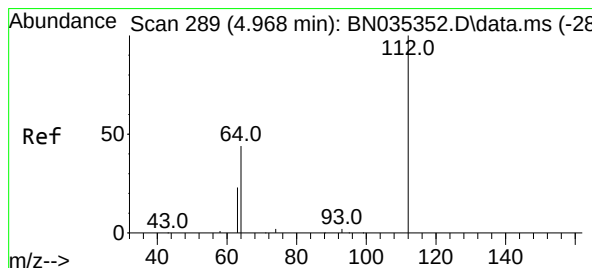
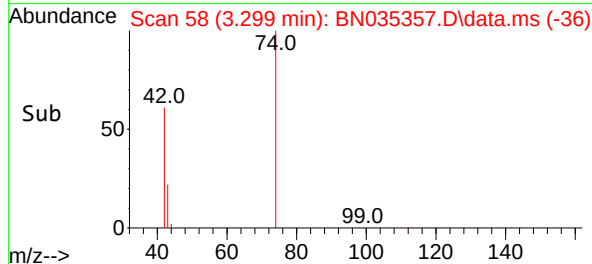
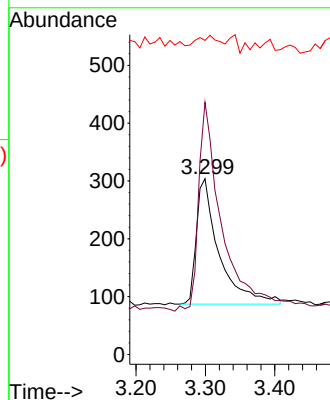
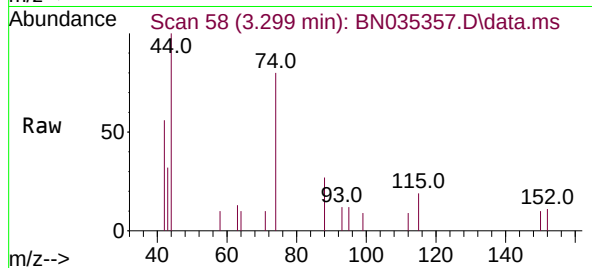
ClientSampleId :

ICVBN112724

Tgt Ion: 42 Resp: 49  
Ion Ratio Lower Upper  
42 100  
74 172.1 124.9 187.3  
44 6.3 2.2 3.4

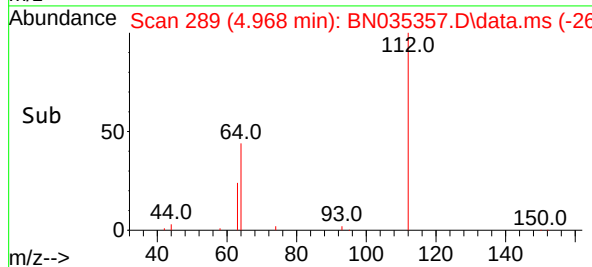
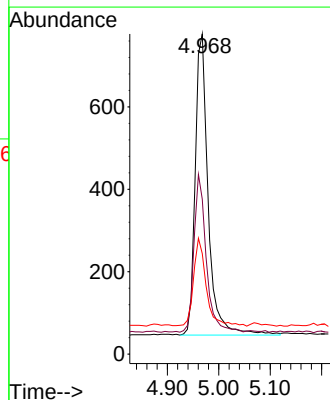
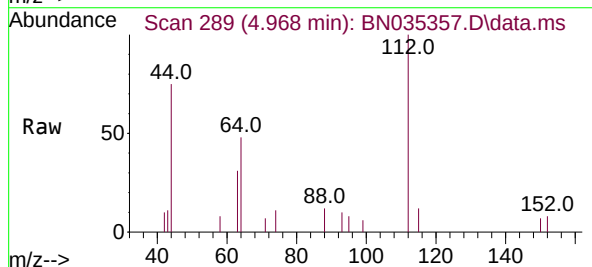
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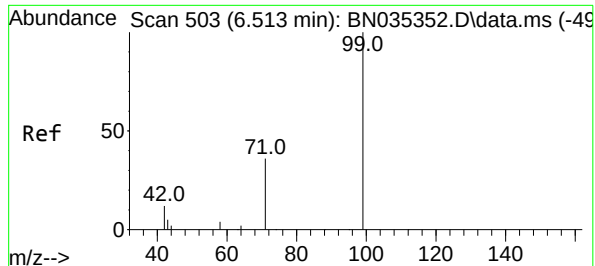
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#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





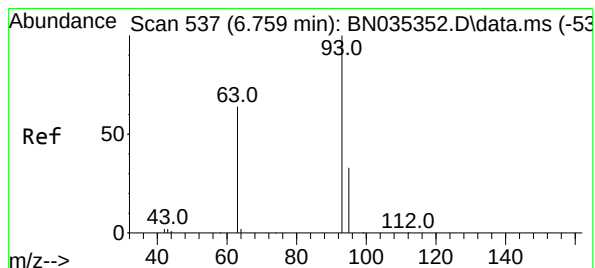
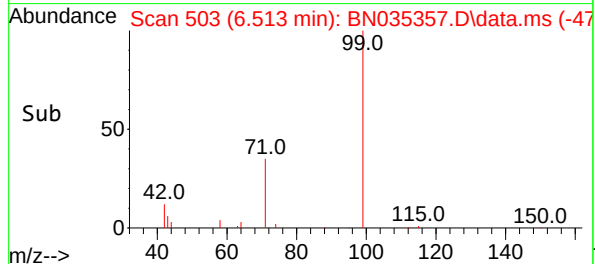
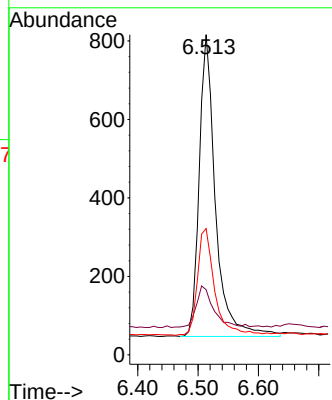
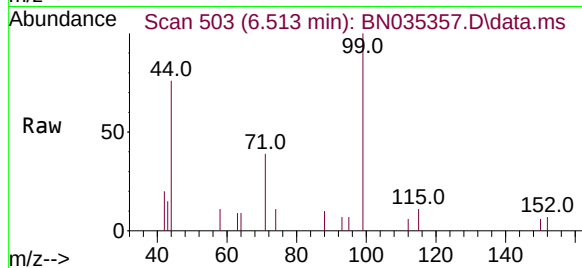
#5  
Phenol-d6  
Concen: 0.310 ng  
RT: 6.513 min Scan# 503  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

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

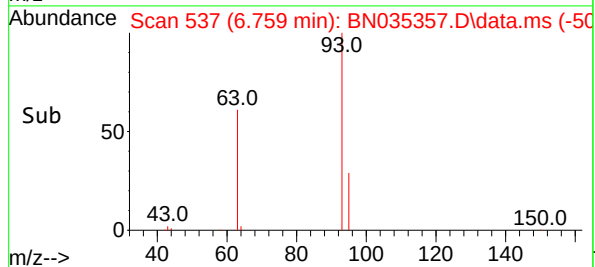
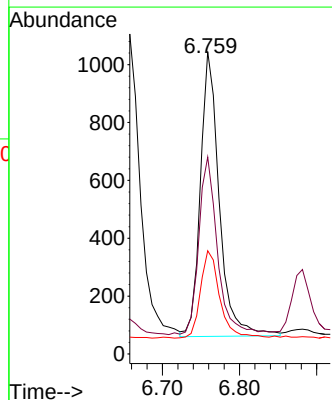
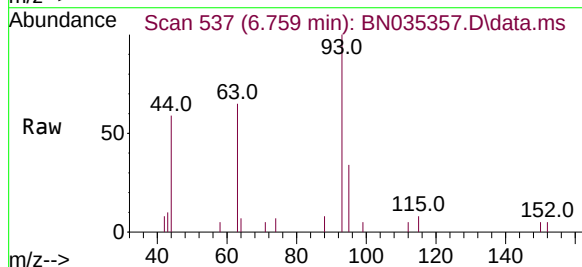
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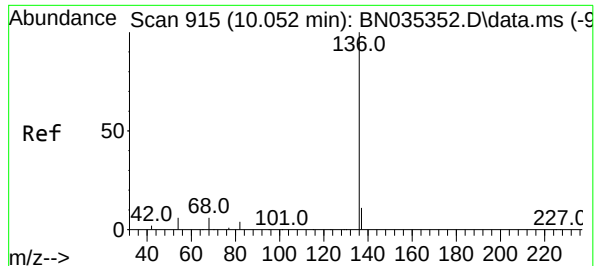
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#6  
bis(2-Chloroethyl)ether  
Concen: 0.430 ng  
RT: 6.759 min Scan# 537  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

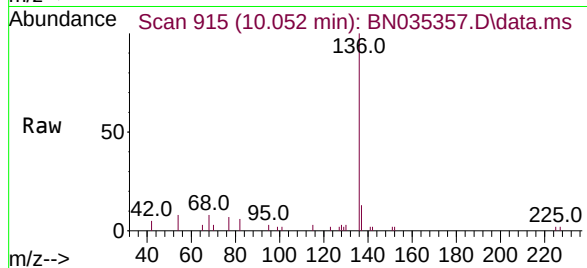
Tgt Ion: 93 Resp: 1676  
Ion Ratio Lower Upper  
93 100  
63 62.1 50.4 75.6  
95 31.4 25.7 38.5





#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

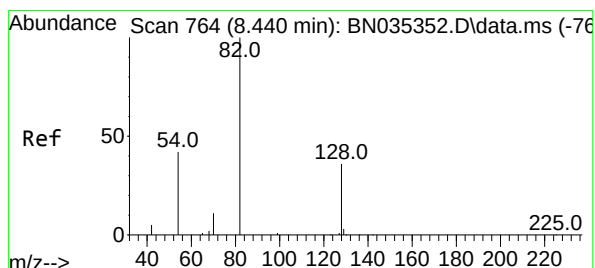
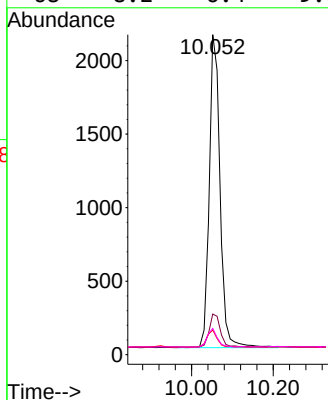
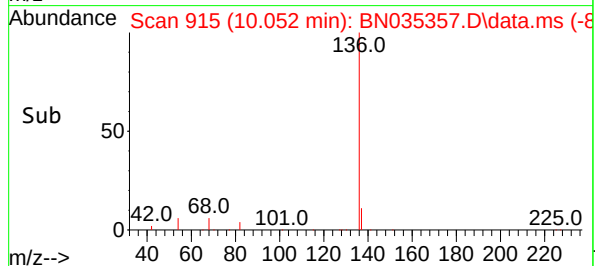
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112724



| 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   |

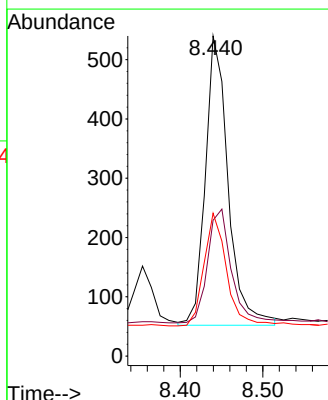
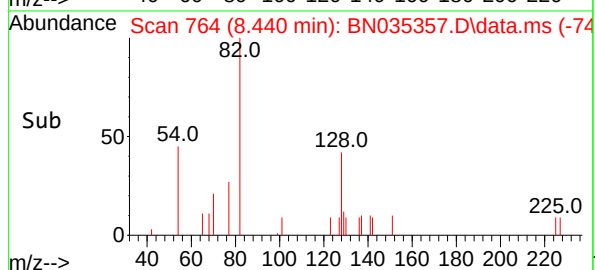
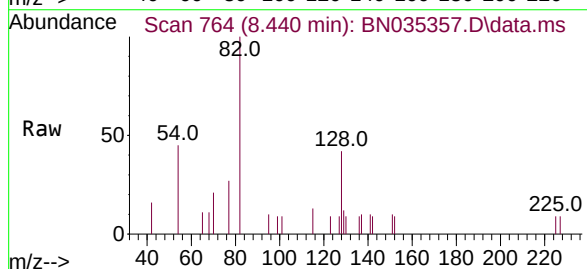
Manual Integrations  
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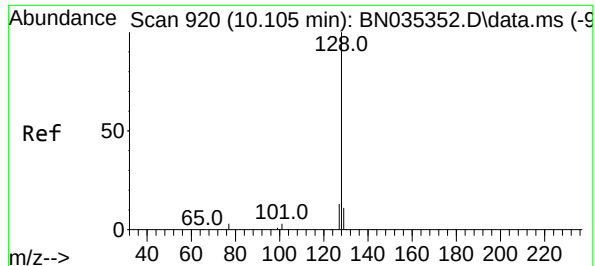
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#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  |





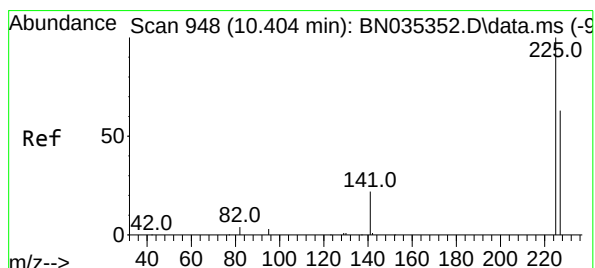
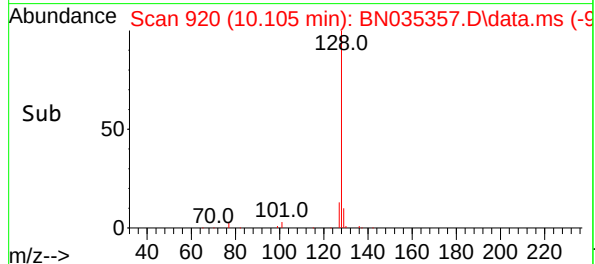
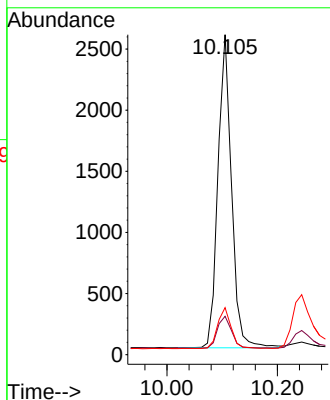
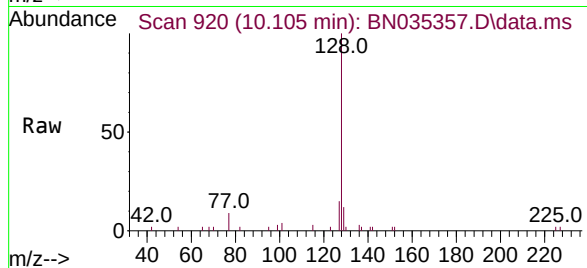
#9  
Naphthalene  
Concen: 0.424 ng  
RT: 10.105 min Scan# 912  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

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

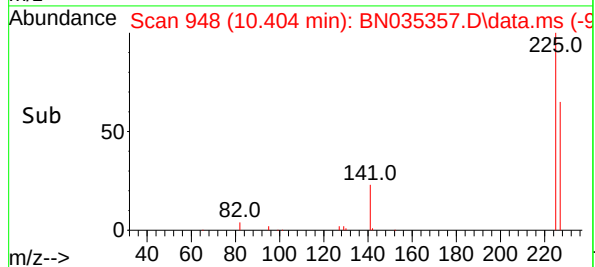
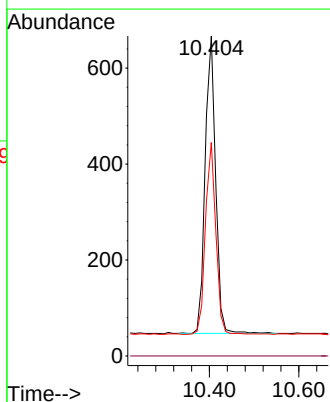
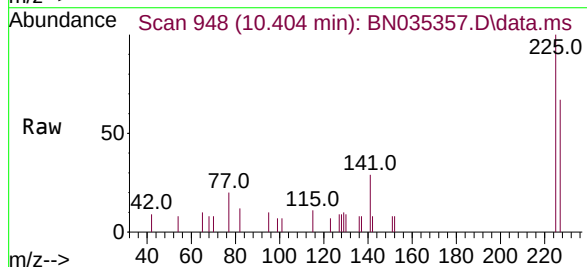
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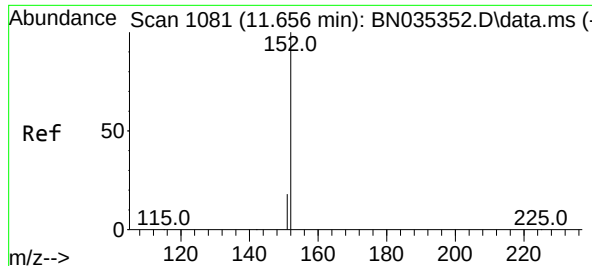
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#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

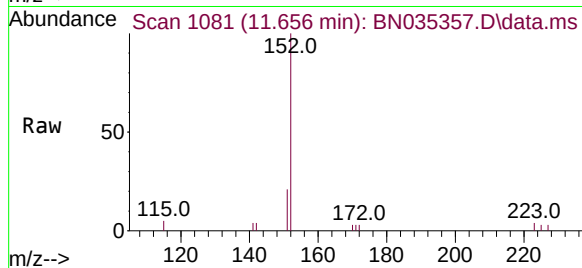
Tgt Ion:225 Resp: 1005  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 64.3 51.3 76.9





#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

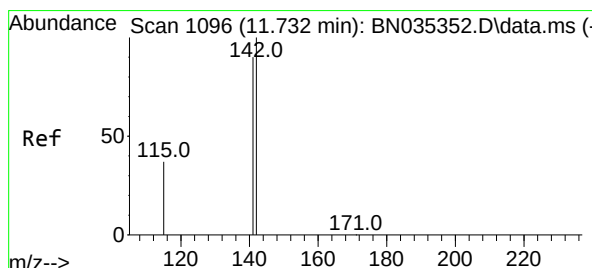
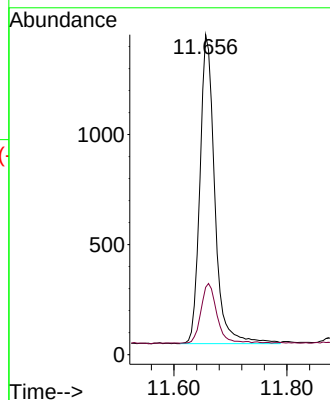
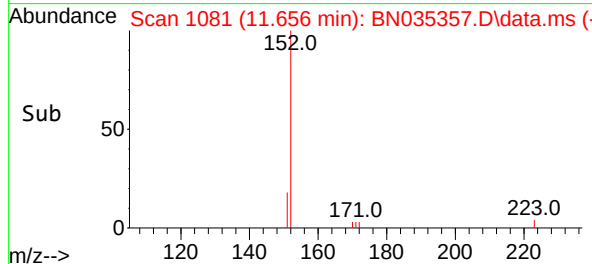
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112724



Tgt Ion:152 Resp: 256  
Ion Ratio Lower Upper  
152 100  
151 20.5 16.6 25.0

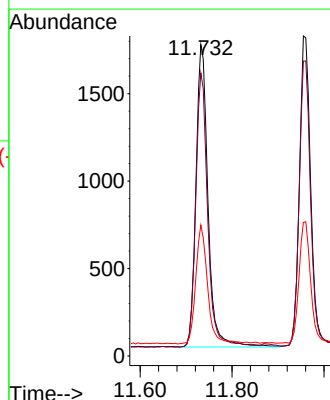
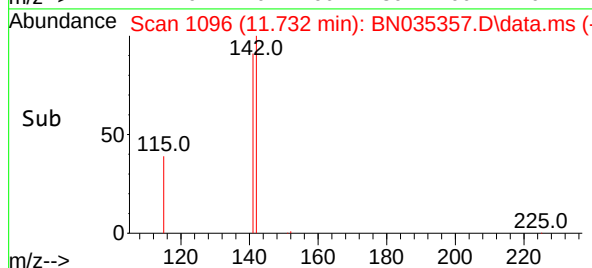
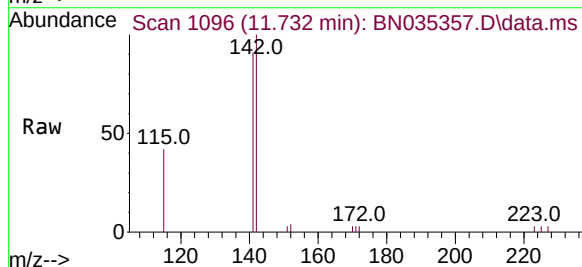
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Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024

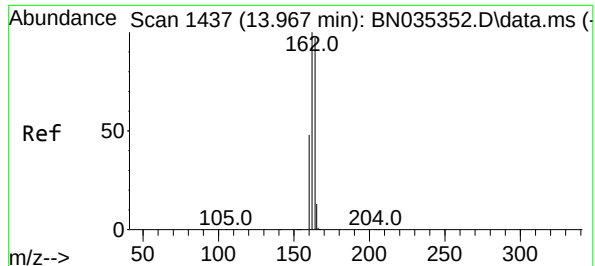


#12  
2-Methylnaphthalene  
Concen: 0.428 ng  
RT: 11.732 min Scan# 1096  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

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 :

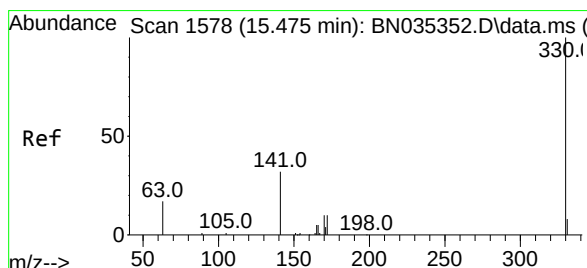
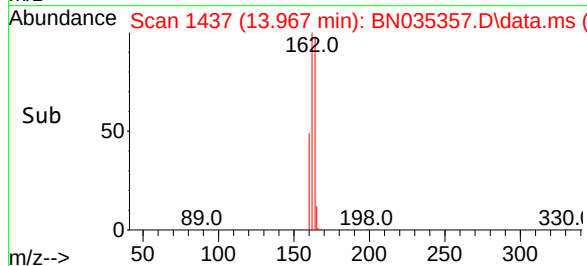
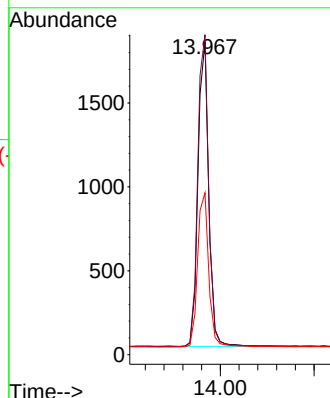
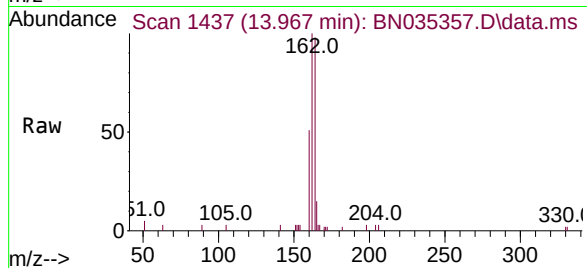
ICVBN112724

|          |       |       |       |
|----------|-------|-------|-------|
| 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  |

Manual Integrations  
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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

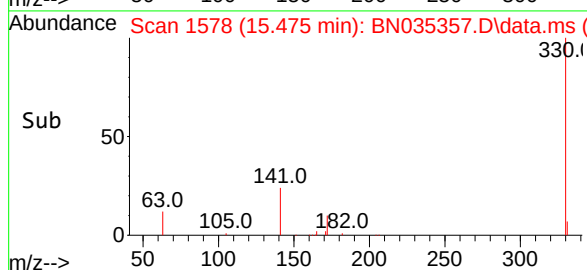
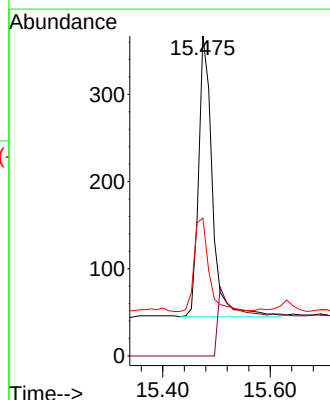
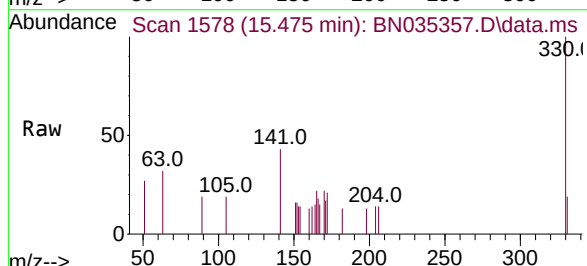
RT: 15.475 min Scan# 1578

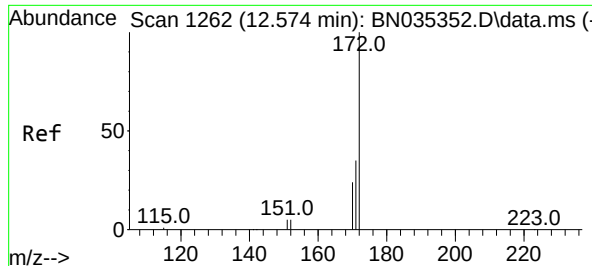
Delta R.T. -0.000 min

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# 11

Delta R.T. -0.000 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

Instrument :

BNA\_N

ClientSampleId :

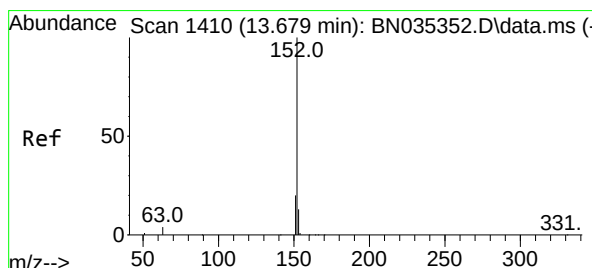
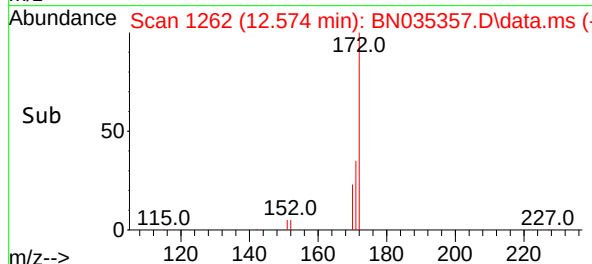
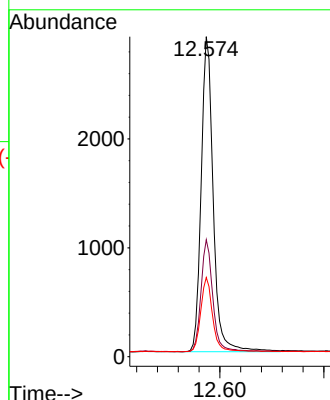
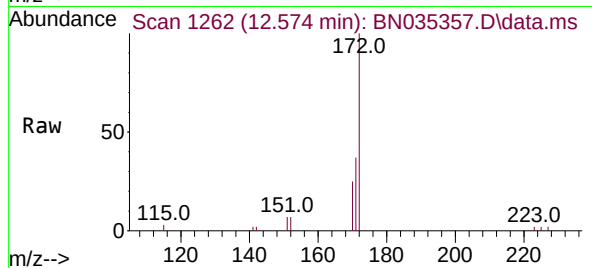
ICVBN112724

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:172 | Resp: | 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

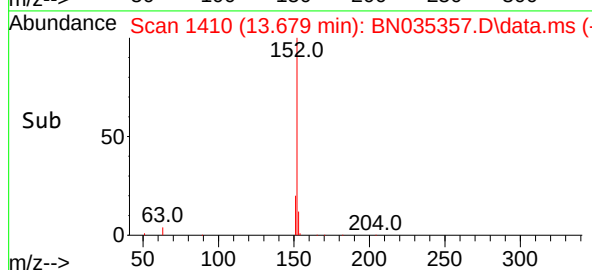
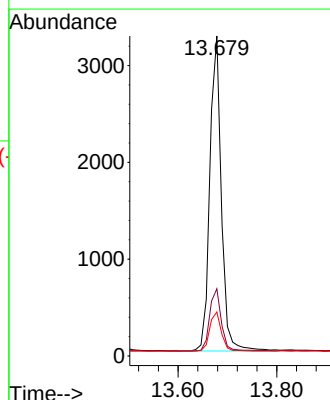
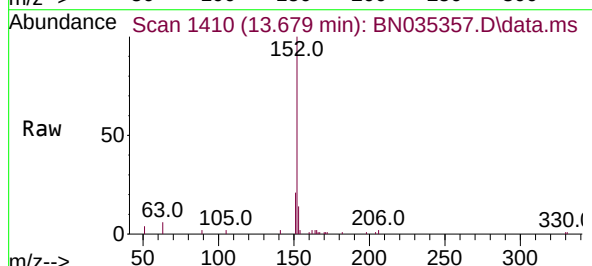
RT: 13.679 min Scan# 1410

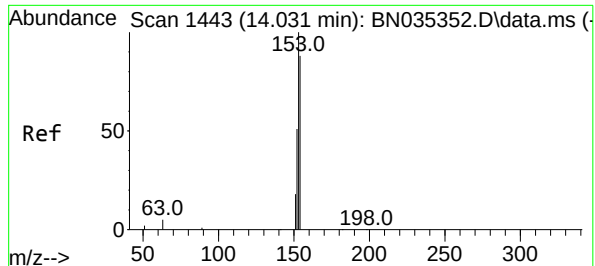
Delta R.T. -0.000 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

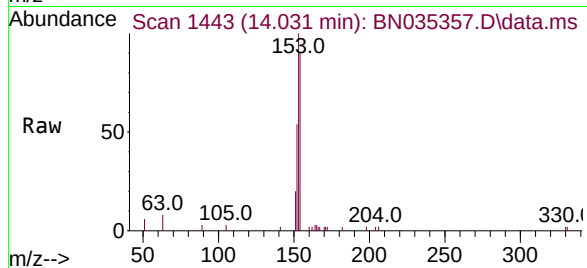
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:152 | Resp: | 5261      |
| Ion Ratio   | Lower | Upper     |
| 152         | 100   |           |
| 151         | 20.1  | 16.2 24.2 |
| 153         | 12.7  | 10.4 15.6 |





#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

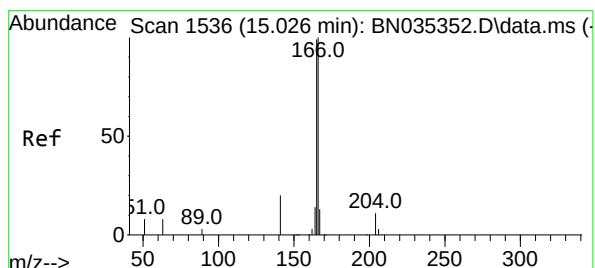
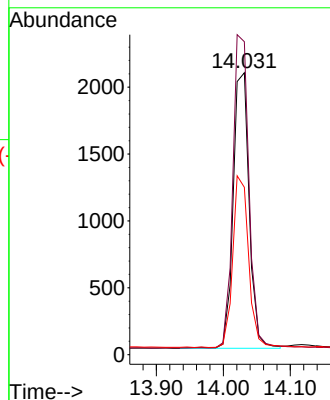
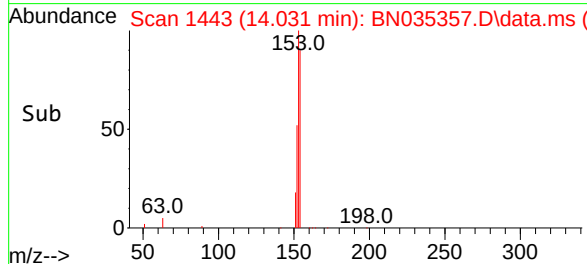
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112724



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

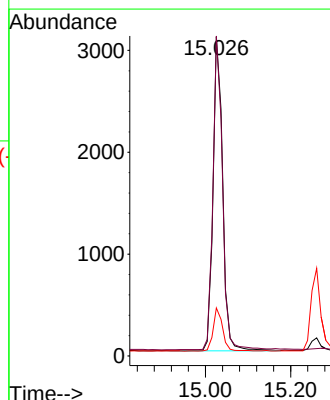
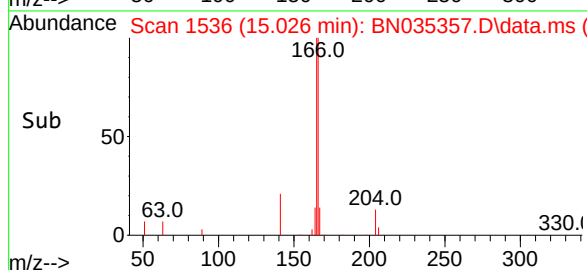
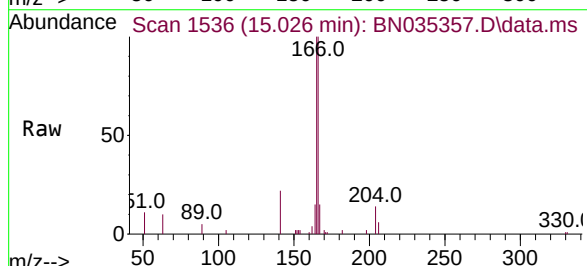
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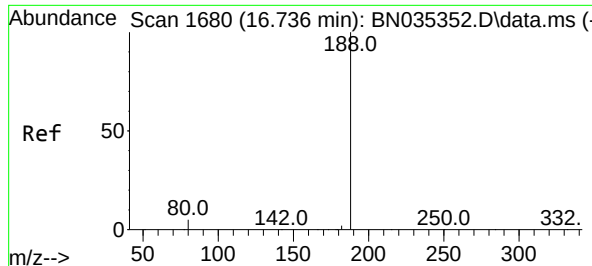
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#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# 1

Delta R.T. -0.012 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

Instrument :

BNA\_N

ClientSampleId :

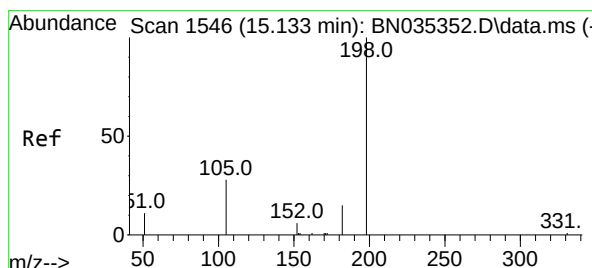
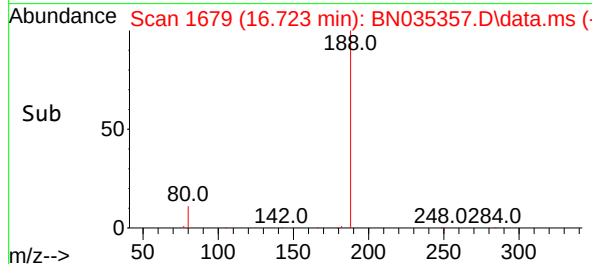
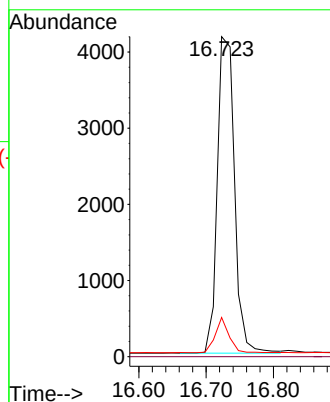
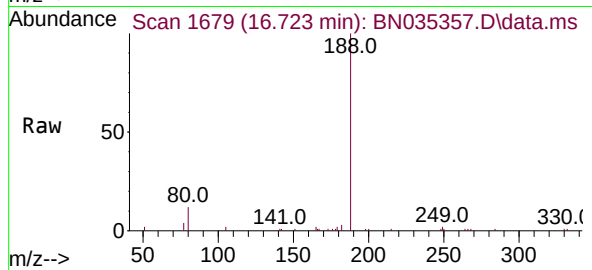
ICVBN112724

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 0.0   | 0.0   | 0.0   |
| 80      | 12.2  | 4.6   | 6.8   |

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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

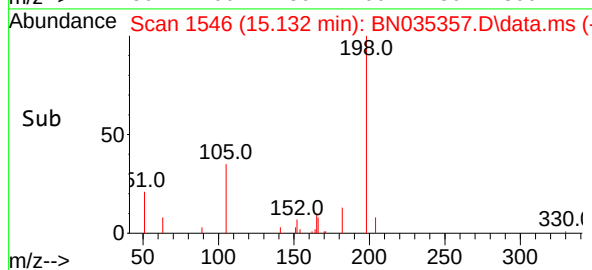
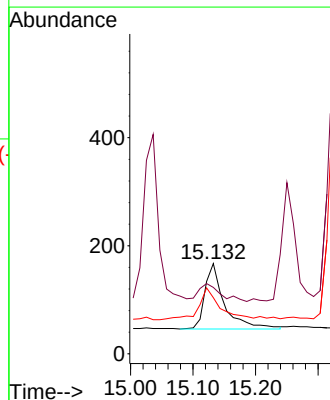
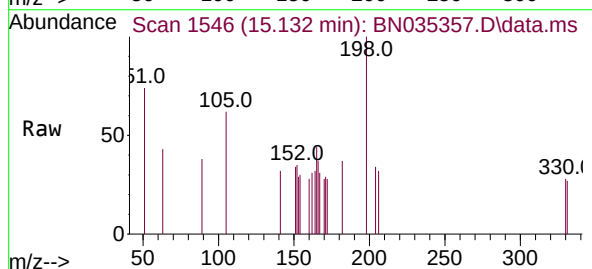
RT: 15.132 min Scan# 1546

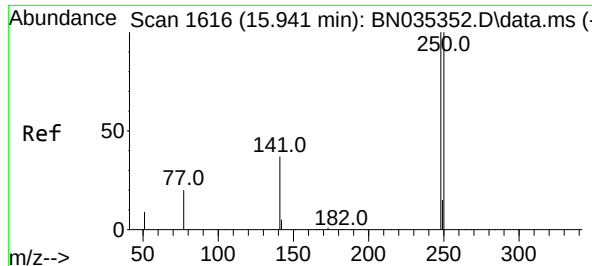
Delta R.T. -0.001 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

| Tgt Ion | 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

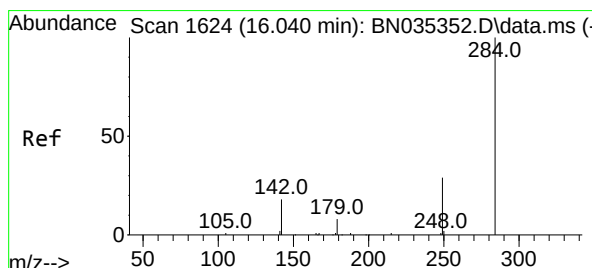
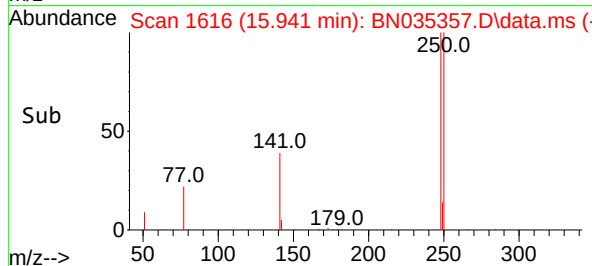
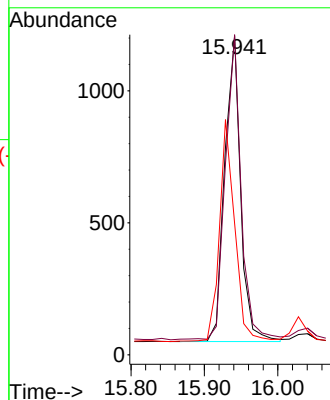
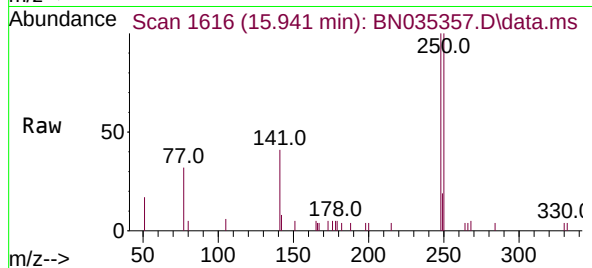
ClientSampleId :

ICVBN112724

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 248     | 100   |       |       |
| 250     | 100.3 | 80.6  | 120.8 |
| 141     | 41.2  | 31.5  | 47.3  |

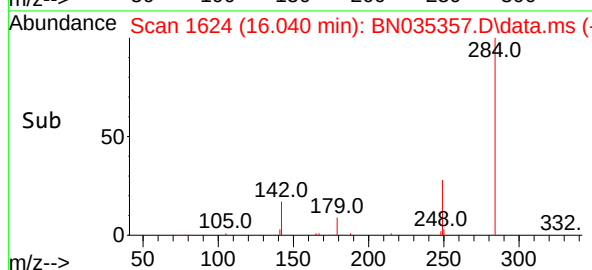
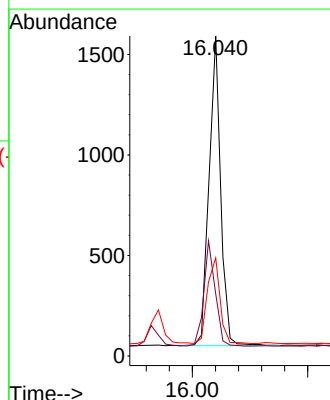
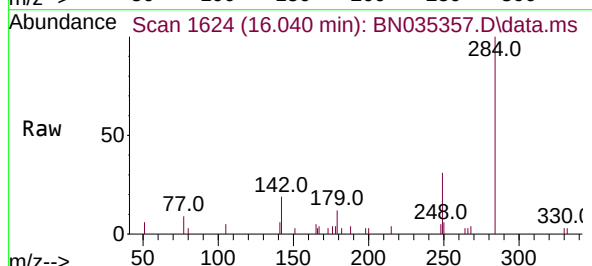
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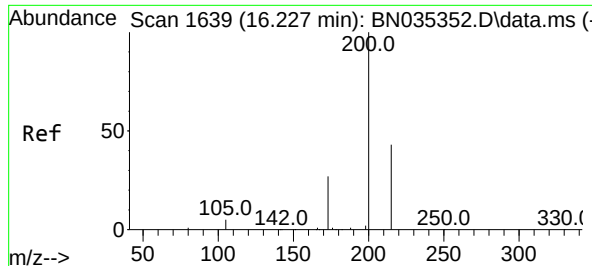
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#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 | 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 :

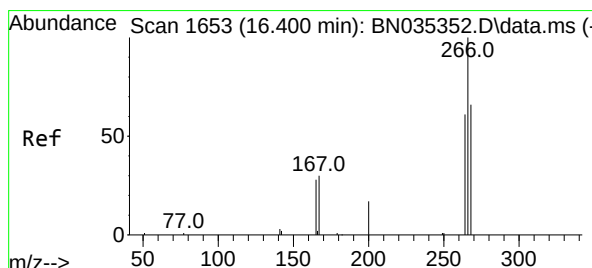
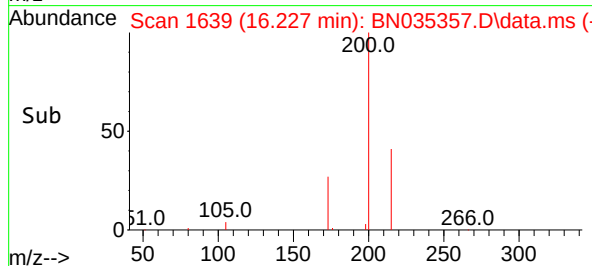
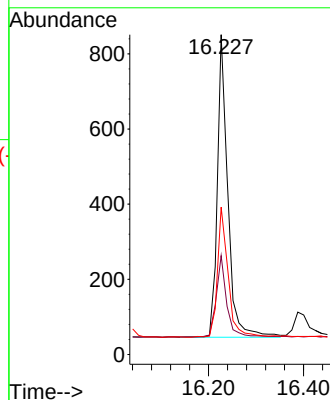
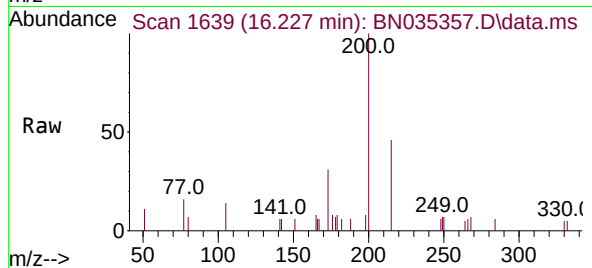
ICVBN112724

|          |       |       |       |
|----------|-------|-------|-------|
| 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  |

Manual Integrations  
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Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024



#24

Pentachlorophenol

Concen: 0.301 ng

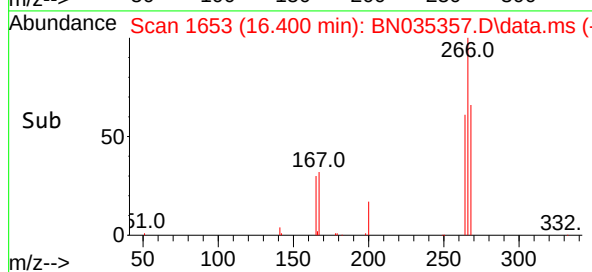
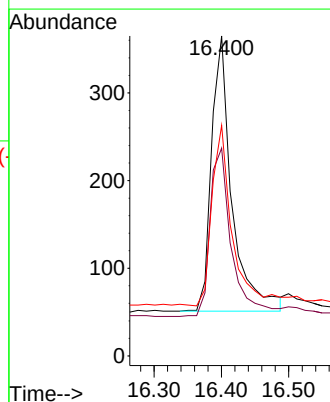
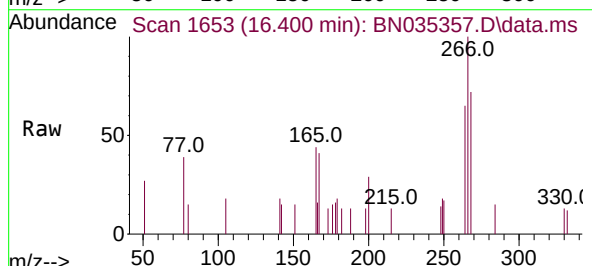
RT: 16.400 min Scan# 1653

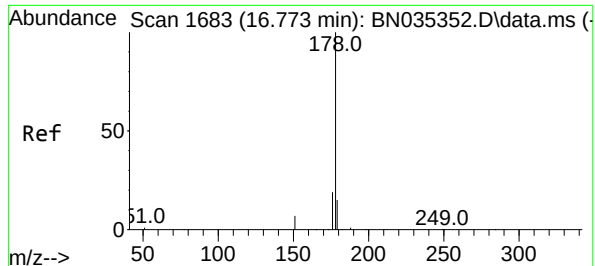
Delta R.T. -0.000 min

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

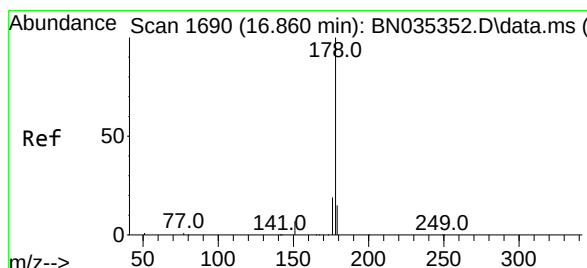
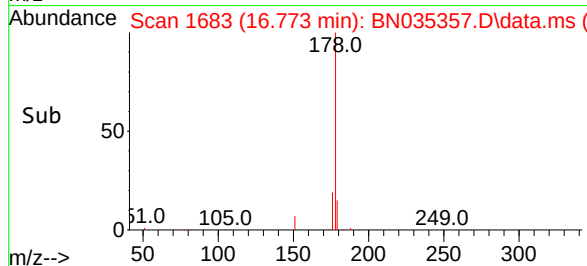
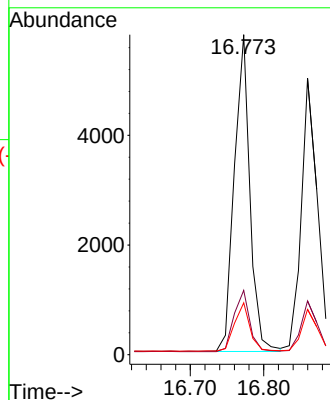
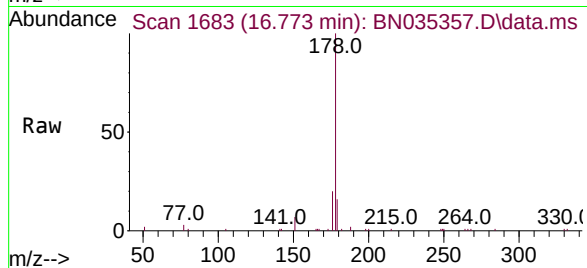
179 15.4 12.3 18.5

Manual Integrations

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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

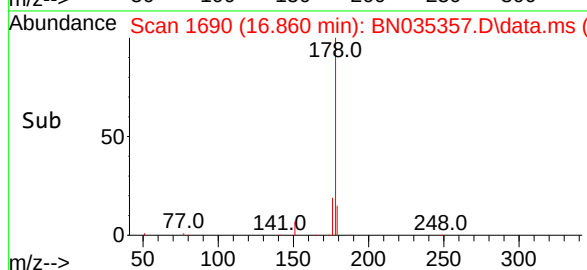
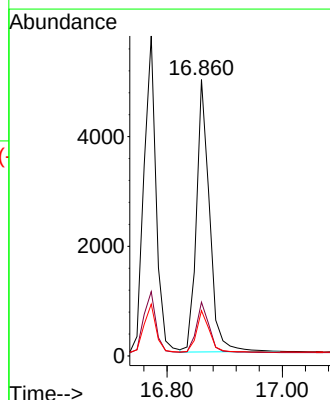
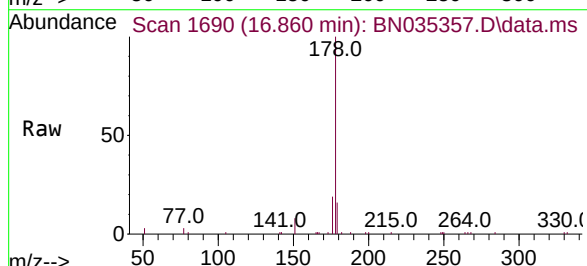
Tgt Ion:178 Resp: 7849

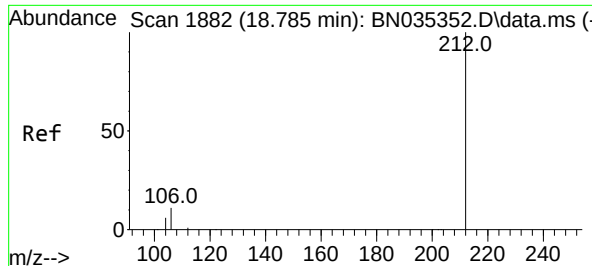
Ion Ratio Lower Upper

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

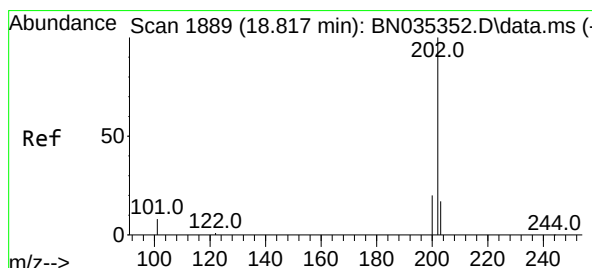
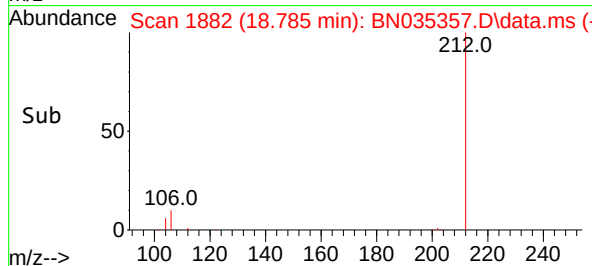
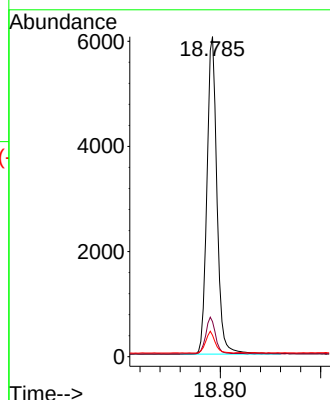
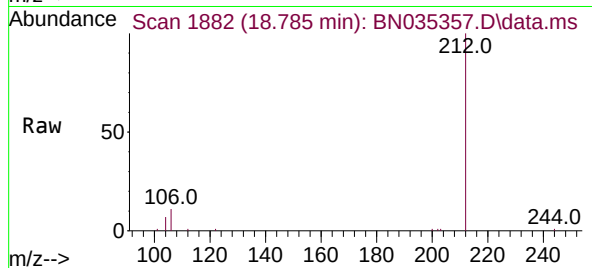
ClientSampleId :

ICVBN112724

|             |       |          |
|-------------|-------|----------|
| Tgt Ion:212 | Resp: | 841      |
| 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

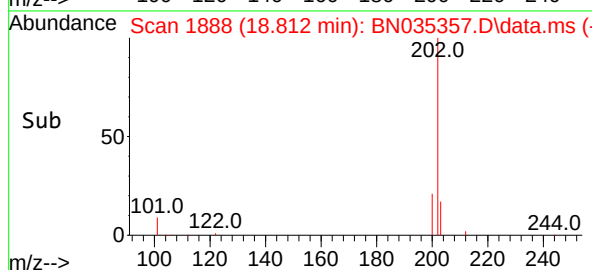
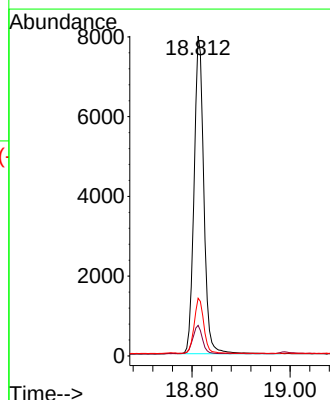
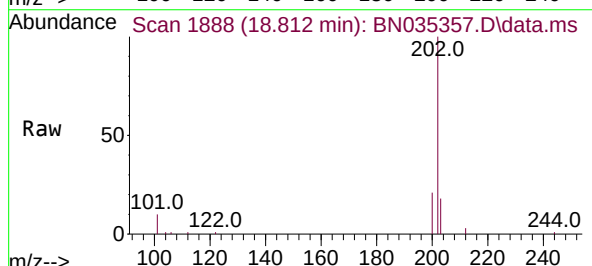
RT: 18.812 min Scan# 1888

Delta R.T. -0.005 min

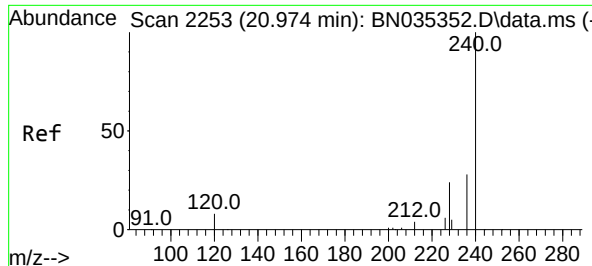
Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion: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 :

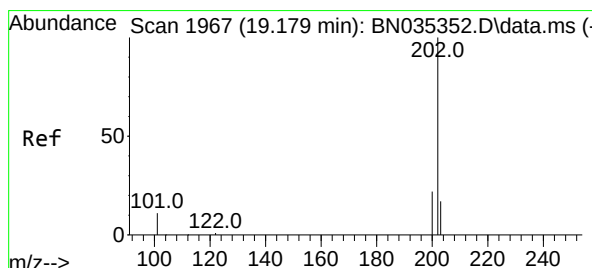
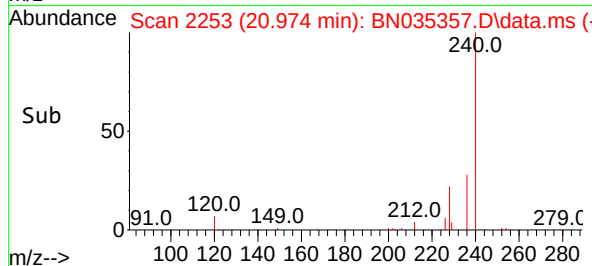
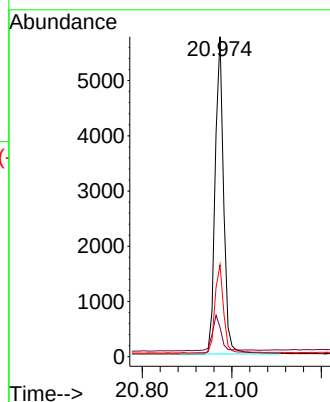
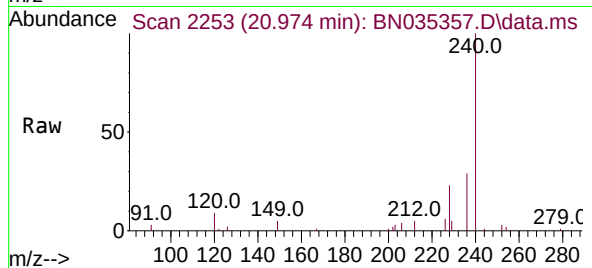
ICVBN112724

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:240 | Resp: | 7570      |
| Ion Ratio   | Lower | Upper     |
| 240         | 100   |           |
| 120         | 9.1   | 7.9 11.9  |
| 236         | 28.7  | 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: 0.410 ng

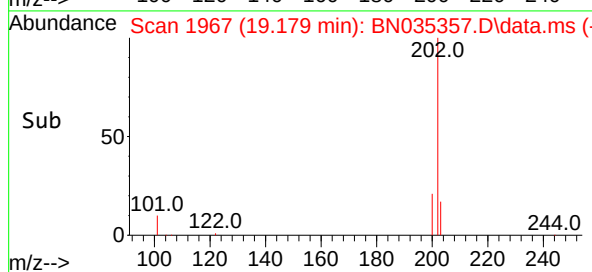
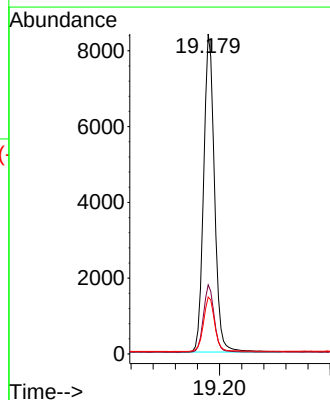
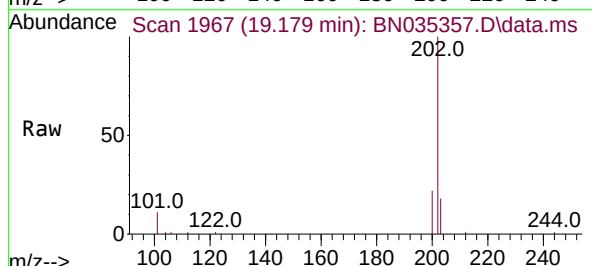
RT: 19.179 min Scan# 1967

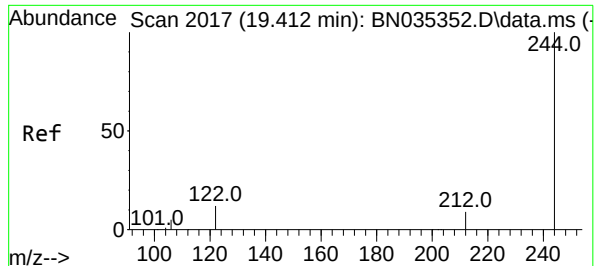
Delta R.T. -0.000 min

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

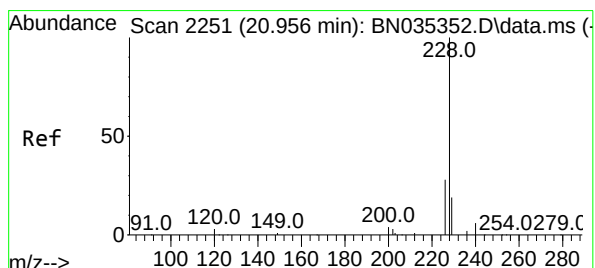
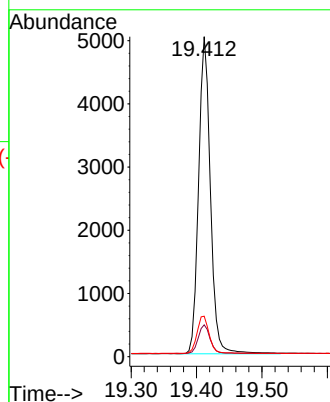
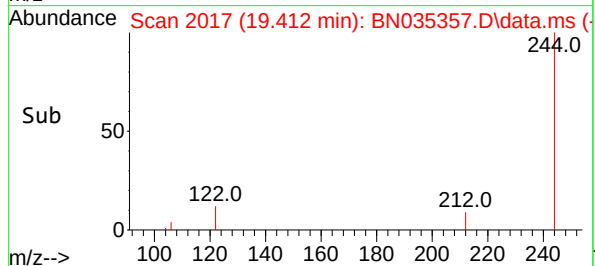
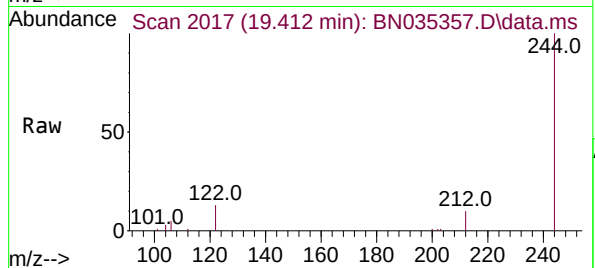
ClientSampleId :

ICVBN112724

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 9.9   | 8.1   | 12.1  |
| 122     | 12.6  | 10.3  | 15.5  |

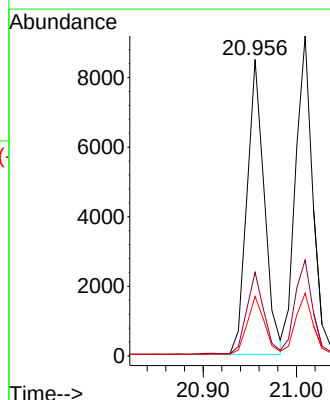
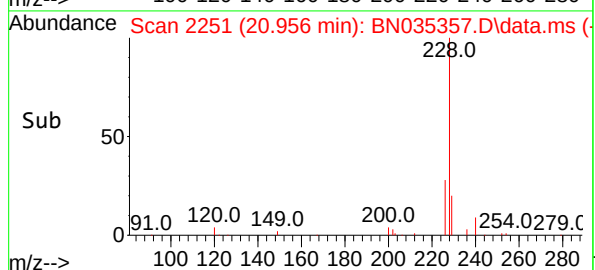
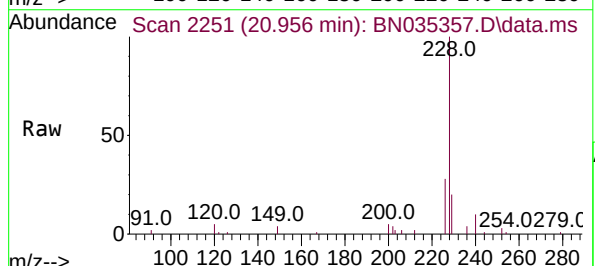
Manual Integrations  
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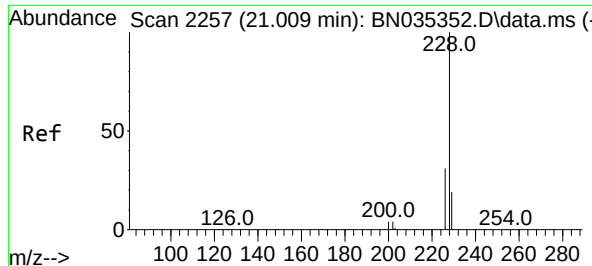
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 12/03/2024



#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

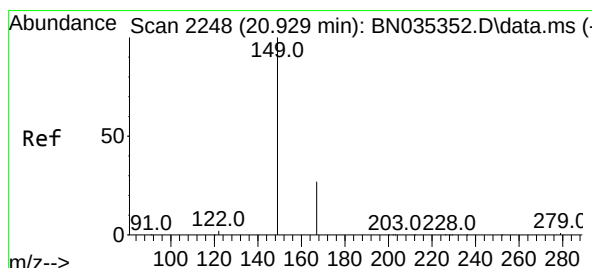
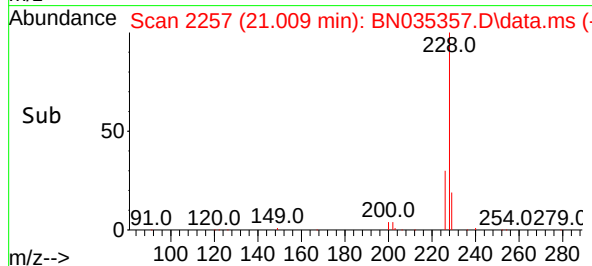
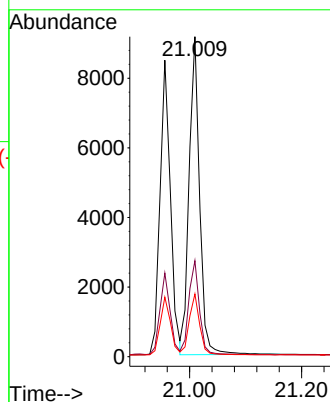
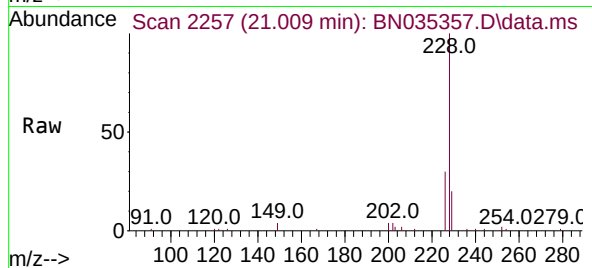
ClientSampleId :

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  
APPROVED

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



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.384 ng

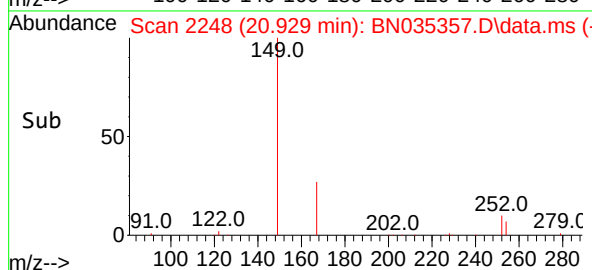
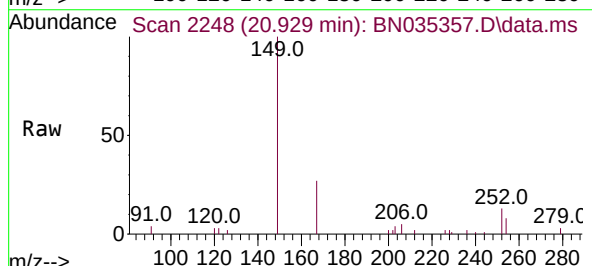
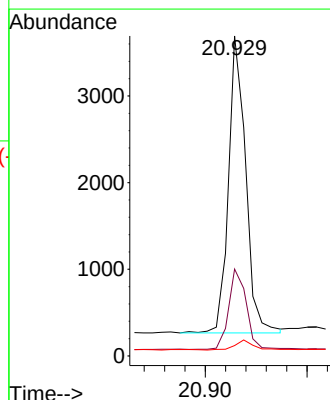
RT: 20.929 min Scan# 2248

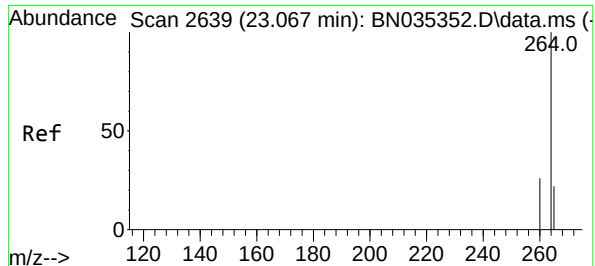
Delta R.T. -0.000 min

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

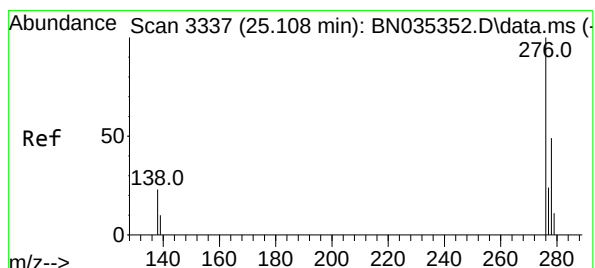
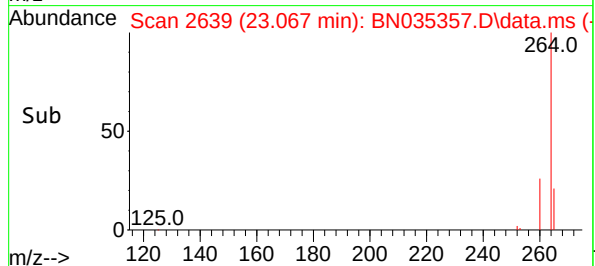
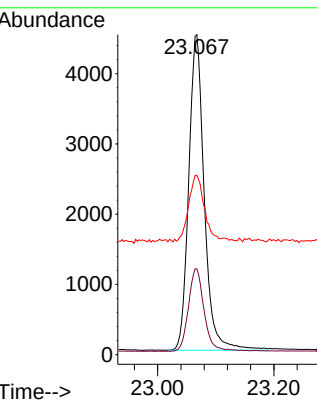
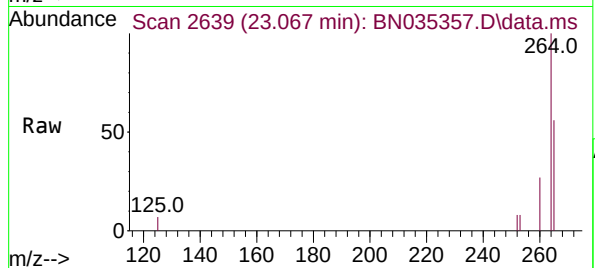
265 56.1 40.2 60.4

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

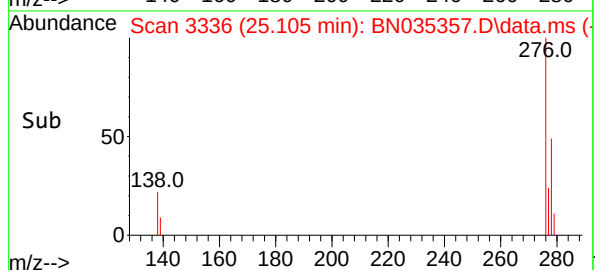
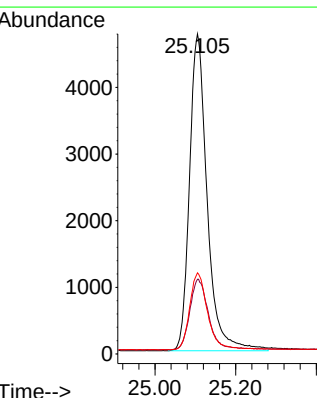
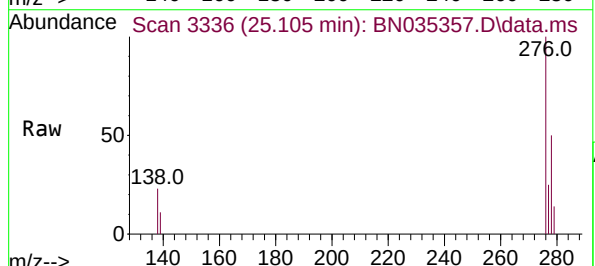
Tgt Ion:276 Resp: 14433

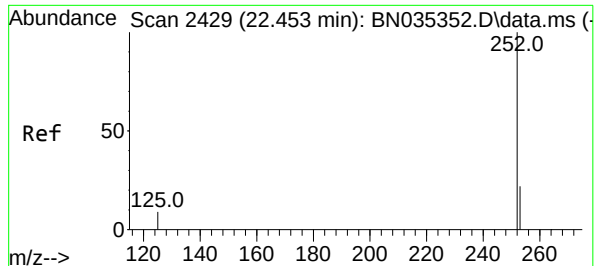
Ion Ratio Lower Upper

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

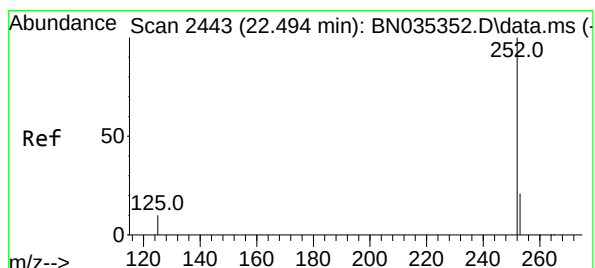
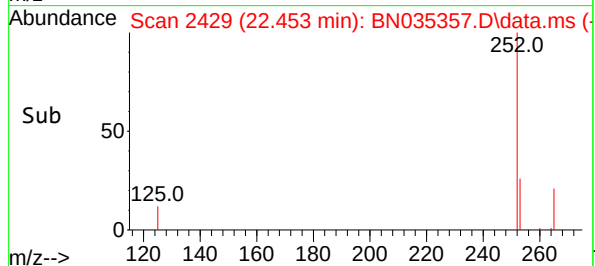
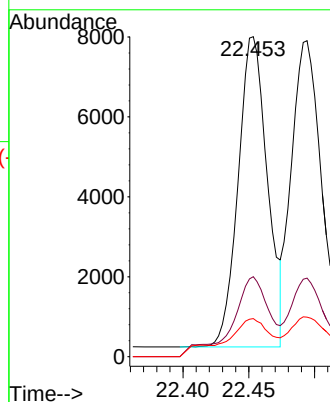
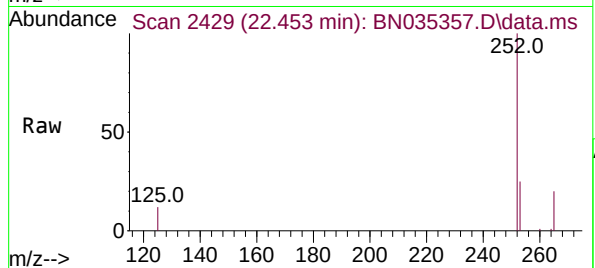
Instrument :

BNA\_N

ClientSampleId :

ICVBN112724

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 12988 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 25.0  | 19.6  | 29.4  |
| 125       | 11.9  | 9.6   | 14.4  |

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

#38

Benzo(k)fluoranthene

Concen: 0.422 ng

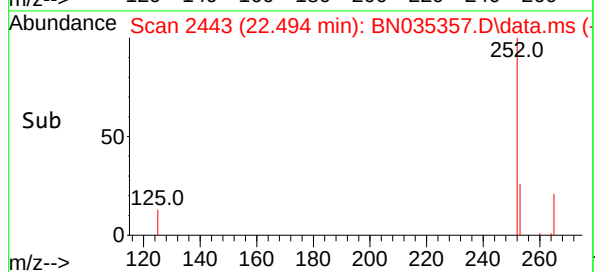
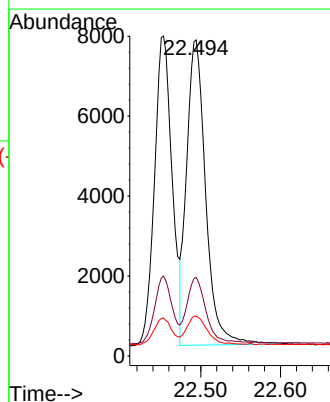
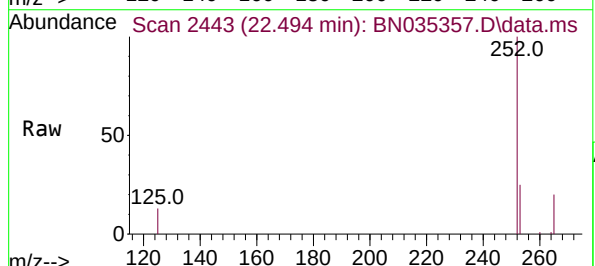
RT: 22.494 min Scan# 2443

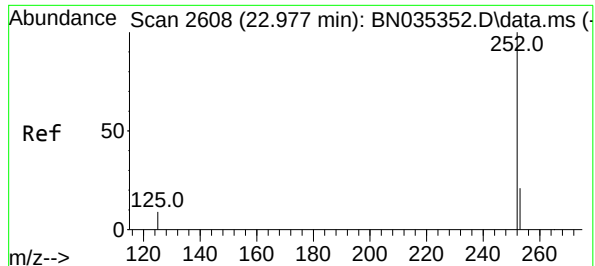
Delta R.T. -0.000 min

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 :

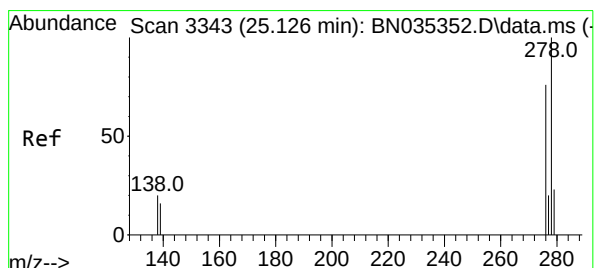
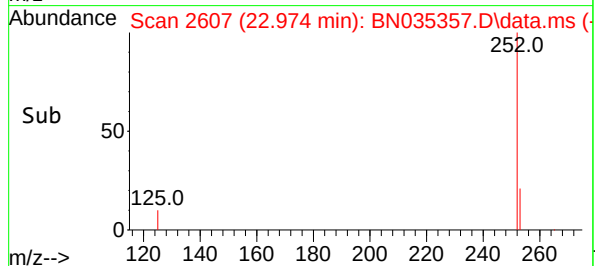
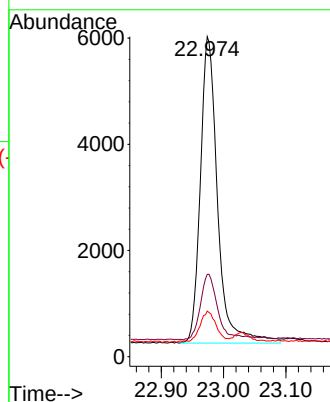
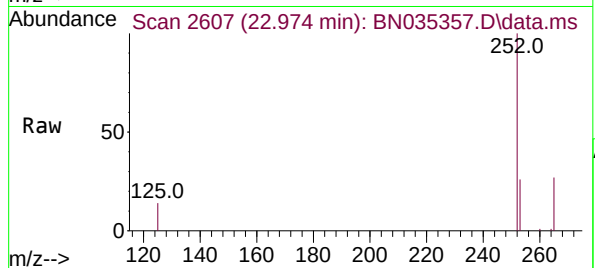
ICVBN112724

|           |       |       |       |
|-----------|-------|-------|-------|
| 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

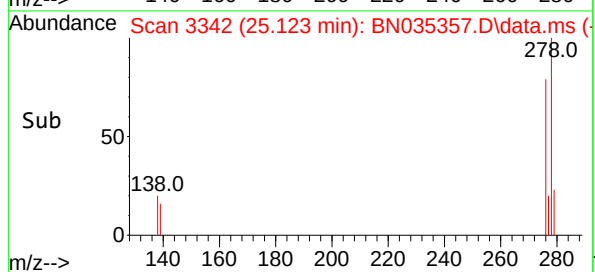
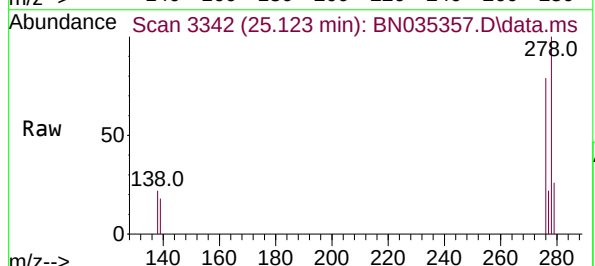
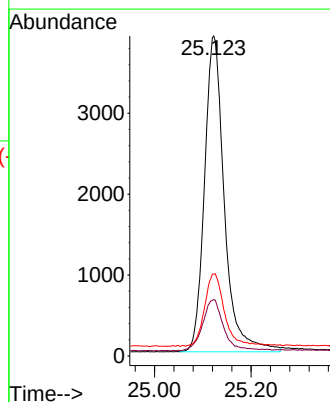
RT: 25.123 min Scan# 3342

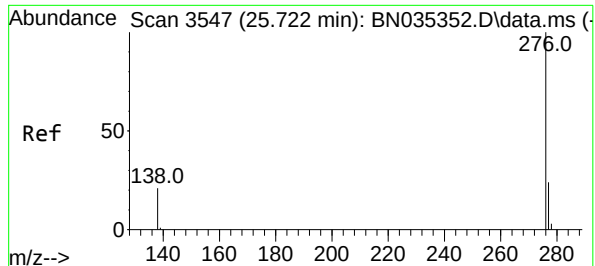
Delta R.T. -0.003 min

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

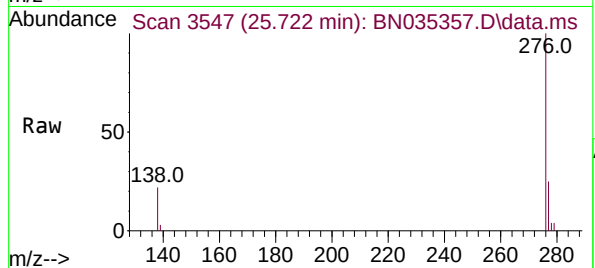
Acq: 27 Nov 2024 20:21

Instrument :

BNA\_N

ClientSampleId :

ICVBN112724



Tgt Ion:276 Resp: 10870

Ion Ratio Lower Upper

276 100

277 24.7 19.9 29.9

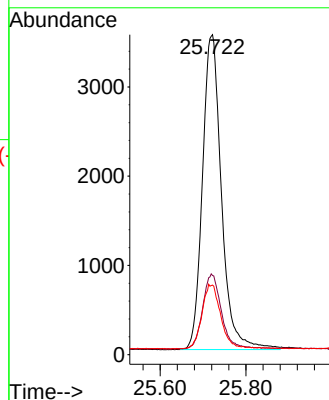
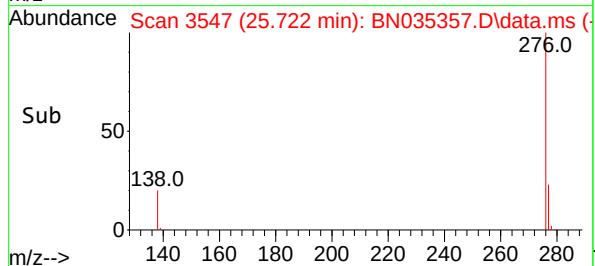
138 21.7 17.8 26.8

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.: P5065 SAS No.: P5065 SDG No.: P5065

Instrument ID: BNA\_N Calibration Date/Time: 12/03/2024 16:35

Lab File ID: BN035406.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 | 0.600  |            | -4.2  | 20.0  |
| Fluoranthene-d10        | 1.134 | 1.017  |            | -10.3 | 20.0  |
| 2-Fluorophenol          | 1.001 | 0.897  |            | -10.4 | 20.0  |
| Phenol-d6               | 1.204 | 1.101  |            | -8.6  | 20.0  |
| Nitrobenzene-d5         | 0.244 | 0.236  |            | -3.3  | 20.0  |
| 2-Fluorobiphenyl        | 1.512 | 1.538  |            | 1.7   | 20.0  |
| 2,4,6-Tribromophenol    | 0.284 | 0.253  |            | -10.9 | 20.0  |
| Terphenyl-d14           | 0.789 | 0.767  |            | -2.8  | 20.0  |
| 1,4-Dioxane             | 0.382 | 0.365  |            | -4.4  | 20.0  |

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN120424\  
Data File : BN035406.D  
Acq On : 03 Dec 2024 16:35  
Operator : RC/JU  
Sample : SSTDCCC0.4  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

Quant Time: Dec 03 17:45:31 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

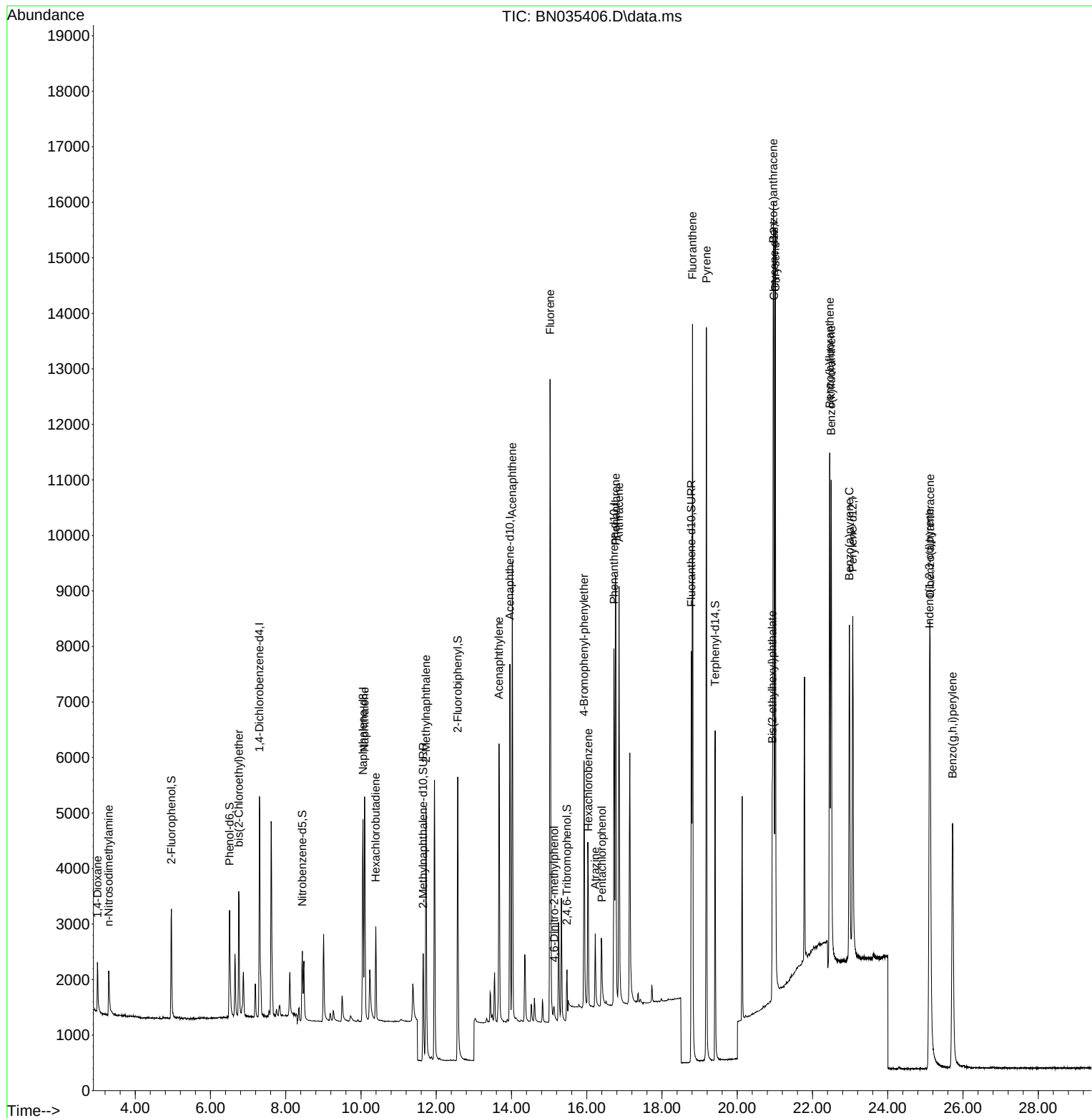
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.300  | 152  | 2015     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.052 | 136  | 5135     | 0.400 | ng    | # 0.00   |
| 13) Acenaphthene-d10          | 13.957 | 164  | 3625     | 0.400 | ng    | -0.01    |
| 19) Phenanthrene-d10          | 16.723 | 188  | 8862     | 0.400 | ng    | #-0.01   |
| 29) Chrysene-d12              | 20.974 | 240  | 8251     | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.070 | 264  | 7832     | 0.400 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 4.960  | 112  | 1808     | 0.359 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.506  | 99   | 2219     | 0.366 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.440  | 82   | 1212m    | 0.386 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.651 | 152  | 3083     | 0.384 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.475 | 330  | 916      | 0.356 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.569 | 172  | 5574     | 0.407 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 18.780 | 212  | 9013     | 0.359 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.412 | 244  | 6327     | 0.389 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
|                               |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 2.996  | 88   | 735      | 0.382 | ng    | 98       |
| 3) n-Nitrosodimethylamine     | 3.292  | 42   | 603      | 0.376 | ng    | # 99     |
| 6) bis(2-Chloroethyl)ether    | 6.752  | 93   | 1920     | 0.377 | ng    | 100      |
| 9) Naphthalene                | 10.095 | 128  | 5329     | 0.393 | ng    | 99       |
| 10) Hexachlorobutadiene       | 10.394 | 225  | 1309     | 0.419 | ng    | # 99     |
| 12) 2-Methylnaphthalene       | 11.727 | 142  | 3781     | 0.390 | ng    | 99       |
| 16) Acenaphthylene            | 13.668 | 152  | 5887     | 0.387 | ng    | 100      |
| 17) Acenaphthene              | 14.021 | 154  | 3907     | 0.387 | ng    | 98       |
| 18) Fluorene                  | 15.026 | 166  | 5593     | 0.387 | ng    | 99       |
| 20) 4,6-Dinitro-2-methylph... | 15.133 | 198  | 291      | 0.334 | ng    | # 83     |
| 21) 4-Bromophenyl-phenylether | 15.929 | 248  | 2060     | 0.397 | ng    | # 75     |
| 22) Hexachlorobenzene         | 16.040 | 284  | 2548     | 0.419 | ng    | 98       |
| 23) Atrazine                  | 16.227 | 200  | 1209     | 0.328 | ng    | 98       |
| 24) Pentachlorophenol         | 16.400 | 266  | 848      | 0.320 | ng    | # 84     |
| 25) Phenanthrene              | 16.773 | 178  | 9564     | 0.393 | ng    | 100      |
| 26) Anthracene                | 16.860 | 178  | 8243     | 0.374 | ng    | 100      |
| 28) Fluoranthene              | 18.812 | 202  | 12056    | 0.367 | ng    | 100      |
| 30) Pyrene                    | 19.179 | 202  | 12183    | 0.400 | ng    | 100      |
| 32) Benzo(a)anthracene        | 20.956 | 228  | 10317    | 0.357 | ng    | 99       |
| 33) Chrysene                  | 21.009 | 228  | 12005    | 0.403 | ng    | 100      |
| 34) Bis(2-ethylhexyl)phtha... | 20.929 | 149  | 3769     | 0.331 | ng    | 99       |
| 36) Indeno(1,2,3-cd)pyrene    | 25.108 | 276  | 11257    | 0.368 | ng    | 98       |
| 37) Benzo(b)fluoranthene      | 22.456 | 252  | 11172    | 0.390 | ng    | 99       |
| 38) Benzo(k)fluoranthene      | 22.497 | 252  | 11663    | 0.414 | ng    | 99       |
| 39) Benzo(a)pyrene            | 22.980 | 252  | 9142     | 0.387 | ng    | 98       |
| 40) Dibenzo(a,h)anthracene    | 25.126 | 278  | 8667     | 0.359 | ng    | 99       |
| 41) Benzo(g,h,i)perylene      | 25.722 | 276  | 9676     | 0.383 | ng    | 100      |

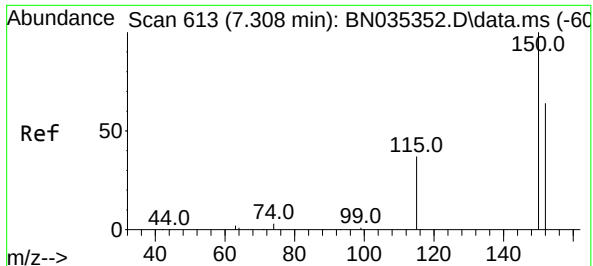
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN035406.D  
Acq On : 03 Dec 2024 16:35  
Operator : RC/JU  
Sample : SSTDCCC0.4  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

Quant Time: Dec 03 17:45:31 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

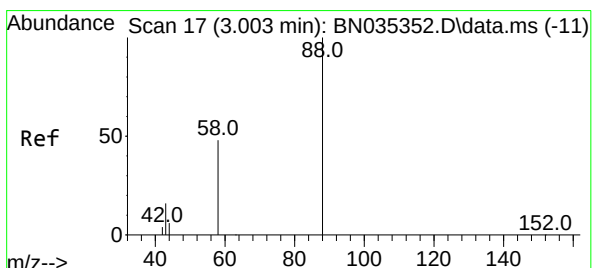
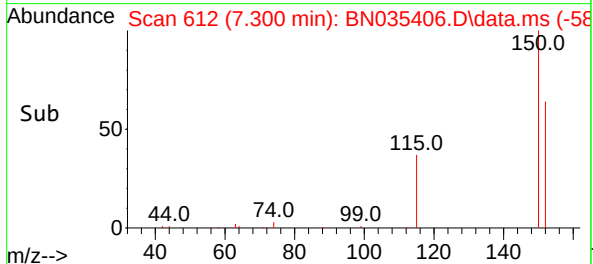
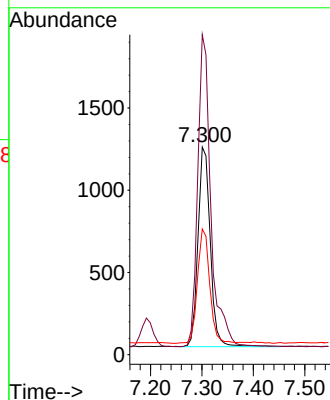
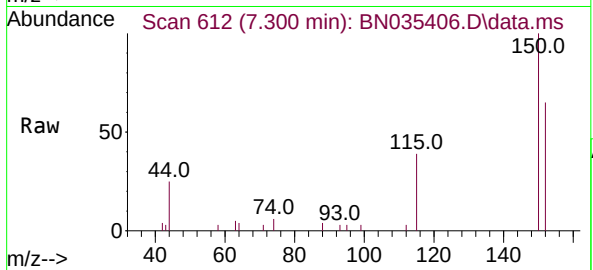




#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.300 min Scan# 61  
Delta R.T. -0.008 min  
Lab File: BN035406.D  
Acq: 03 Dec 2024 16:35

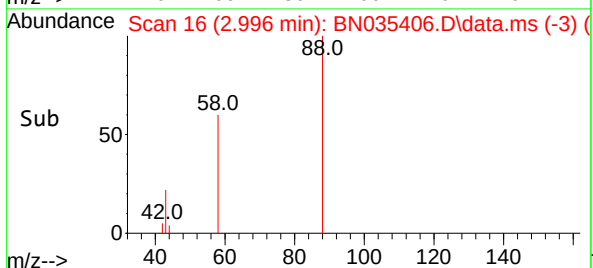
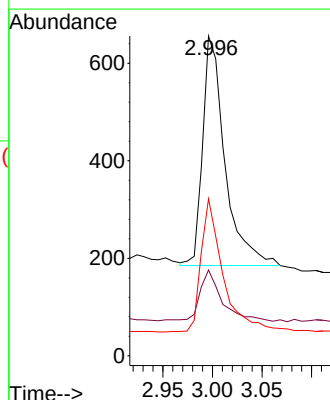
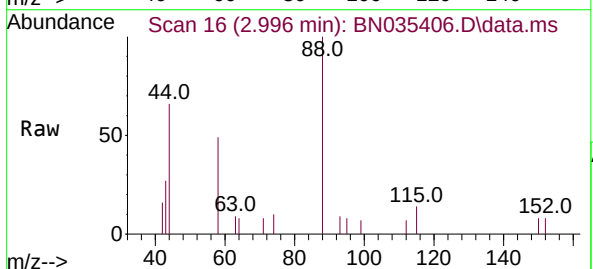
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

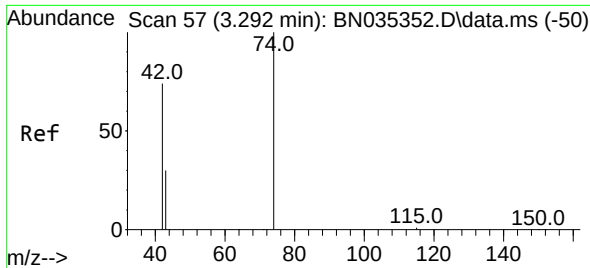
Tgt Ion:152 Resp: 2015  
Ion Ratio Lower Upper  
152 100  
150 154.1 124.0 186.0  
115 60.6 49.6 74.4



#2  
1,4-Dioxane  
Concen: 0.382 ng  
RT: 2.996 min Scan# 16  
Delta R.T. -0.007 min  
Lab File: BN035406.D  
Acq: 03 Dec 2024 16:35

Tgt Ion: 88 Resp: 735  
Ion Ratio Lower Upper  
88 100  
43 22.2 17.2 25.8  
58 57.3 44.5 66.7

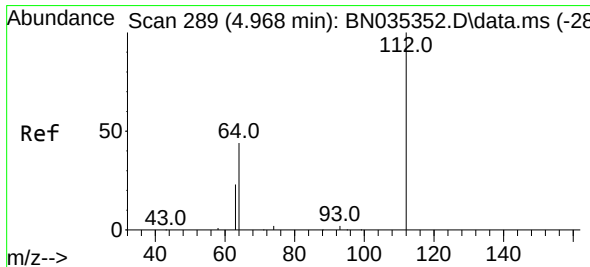
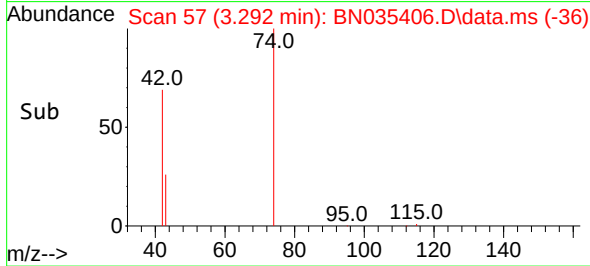
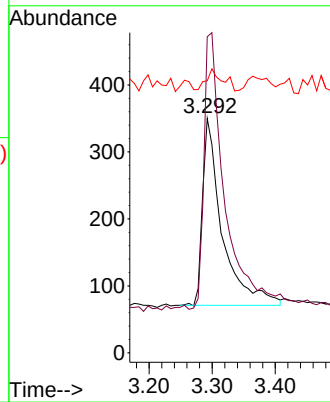
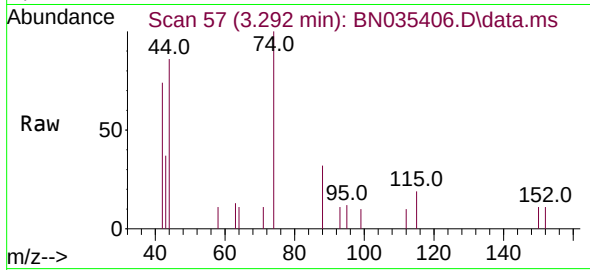




#3  
n-Nitrosodimethylamine  
Concen: 0.376 ng  
RT: 3.292 min Scan# 51  
Delta R.T. -0.000 min  
Lab File: BN035406.D  
Acq: 03 Dec 2024 16:35

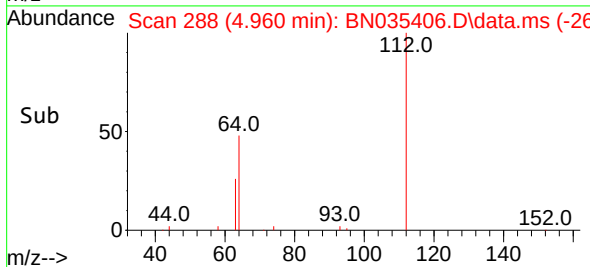
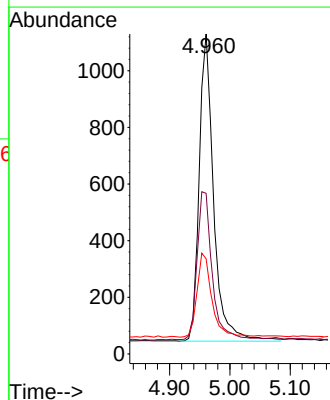
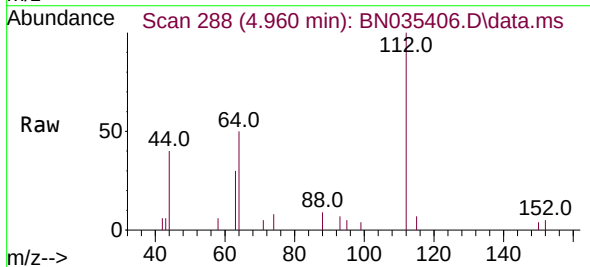
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

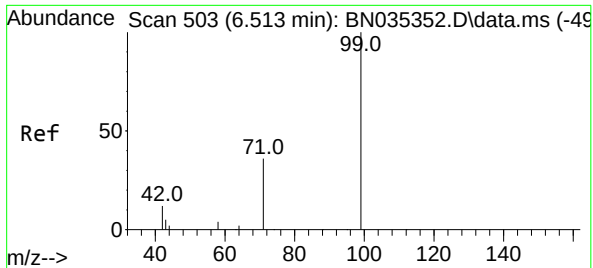
Tgt Ion: 42 Resp: 603  
Ion Ratio Lower Upper  
42 100  
74 156.4 124.9 187.3  
44 9.0 2.2 3.4#



#4  
2-Fluorophenol  
Concen: 0.359 ng  
RT: 4.960 min Scan# 288  
Delta R.T. -0.007 min  
Lab File: BN035406.D  
Acq: 03 Dec 2024 16:35

Tgt Ion: 112 Resp: 1808  
Ion Ratio Lower Upper  
112 100  
64 50.3 39.8 59.8  
63 28.2 21.0 31.6

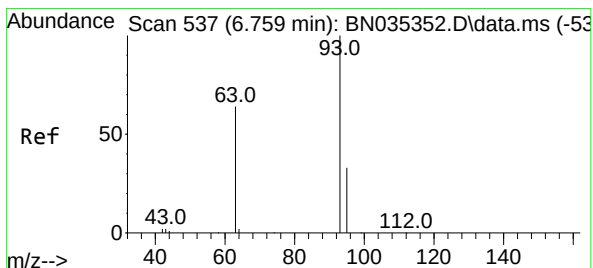
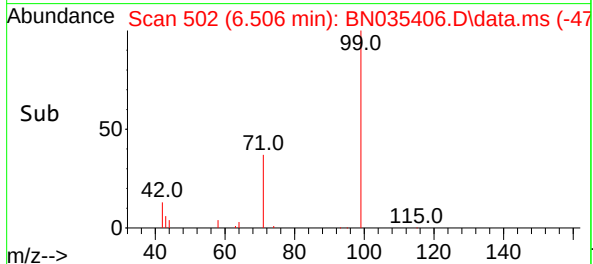
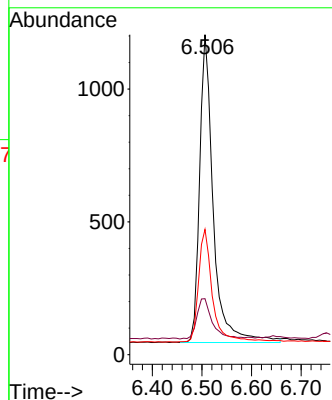
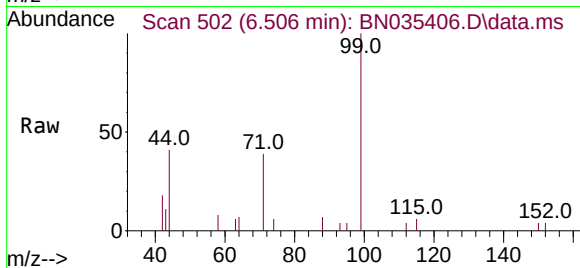




#5  
Phenol-d6  
Concen: 0.366 ng  
RT: 6.506 min Scan# 503  
Delta R.T. -0.007 min  
Lab File: BN035406.D  
Acq: 03 Dec 2024 16:35

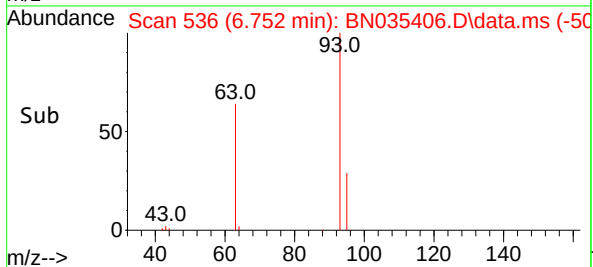
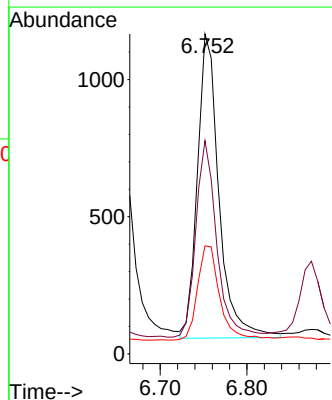
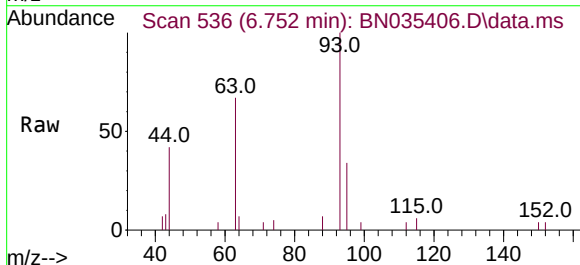
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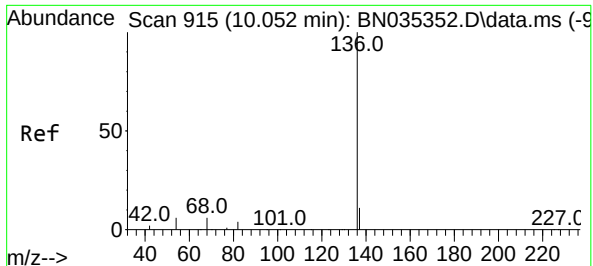
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 99    | Resp: | 2219  |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 14.9  | 11.4  | 17.2  |
| 71       | 37.3  | 29.3  | 43.9  |



#6  
bis(2-Chloroethyl)ether  
Concen: 0.377 ng  
RT: 6.752 min Scan# 536  
Delta R.T. -0.007 min  
Lab File: BN035406.D  
Acq: 03 Dec 2024 16:35

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 93    | Resp: | 1920  |
| Ion      | Ratio | Lower | Upper |
| 93       | 100   |       |       |
| 63       | 62.6  | 50.4  | 75.6  |
| 95       | 32.1  | 25.7  | 38.5  |

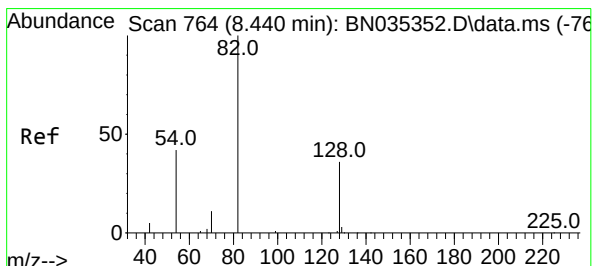
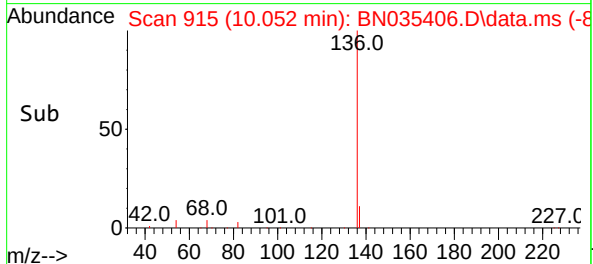
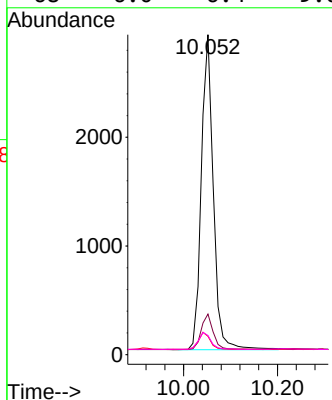
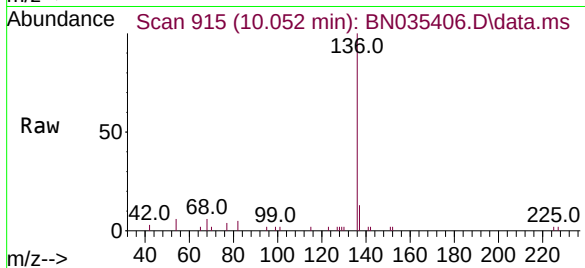




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.052 min Scan# 915  
Delta R.T. 0.000 min  
Lab File: BN035406.D  
Acq: 03 Dec 2024 16:35

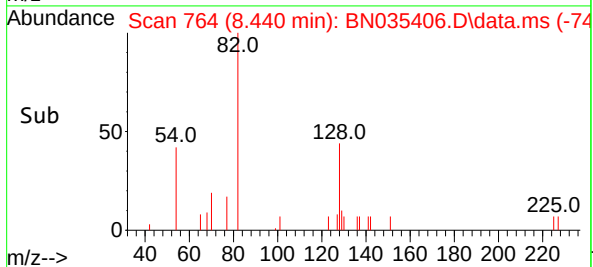
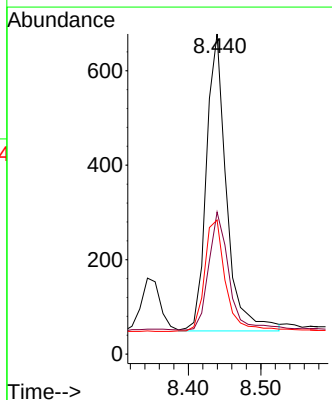
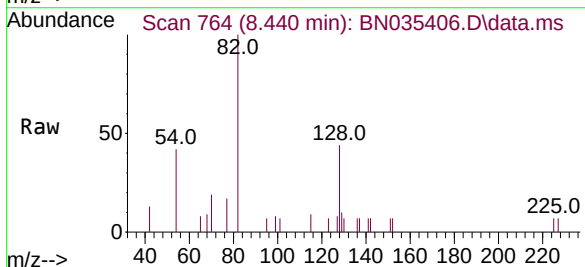
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 136   | Resp: | 5135 |
| Ion Ratio | Lower | Upper |      |
| 136       | 100   |       |      |
| 137       | 12.7  | 10.2  | 15.2 |
| 54        | 5.8   | 6.1   | 9.1# |
| 68        | 6.0   | 6.4   | 9.6# |

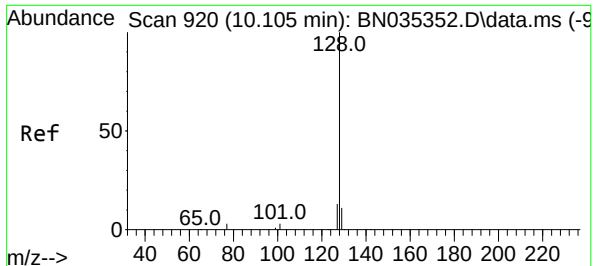


#8  
Nitrobenzene-d5  
Concen: 0.386 ng m  
RT: 8.440 min Scan# 764  
Delta R.T. -0.000 min  
Lab File: BN035406.D  
Acq: 03 Dec 2024 16:35

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 82    | Resp: | 1212 |
| Ion Ratio | Lower | Upper |      |
| 82        | 100   |       |      |
| 128       | 44.4  | 33.4  | 50.0 |
| 54        | 41.9  | 36.7  | 55.1 |



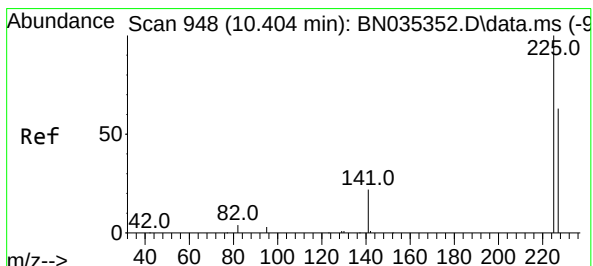
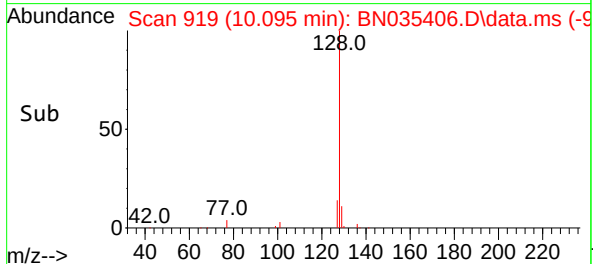
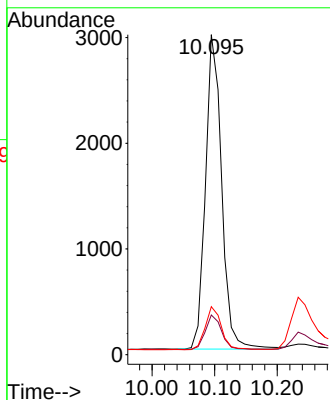
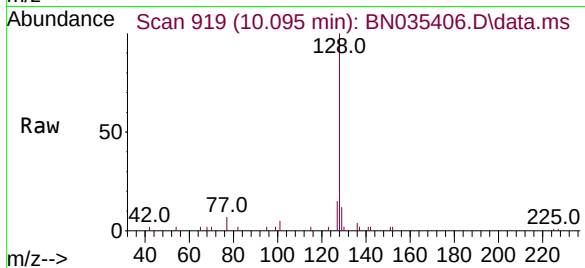




#9  
Naphthalene  
Concen: 0.393 ng  
RT: 10.095 min Scan# 919  
Delta R.T. -0.011 min  
Lab File: BN035406.D  
Acq: 03 Dec 2024 16:35

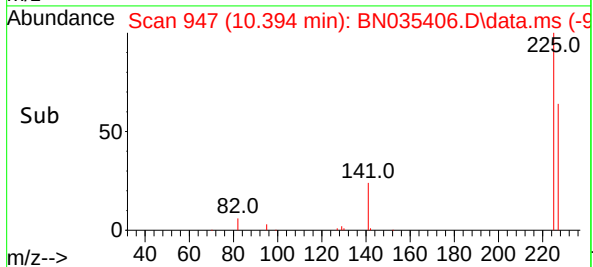
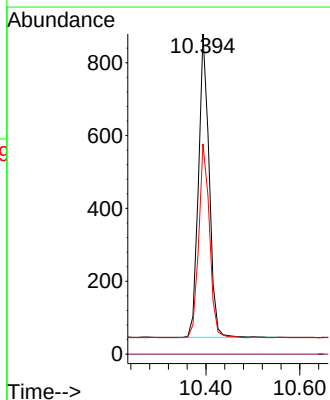
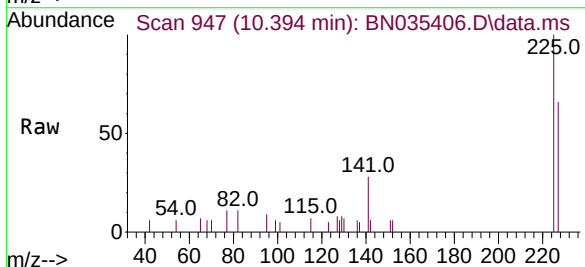
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

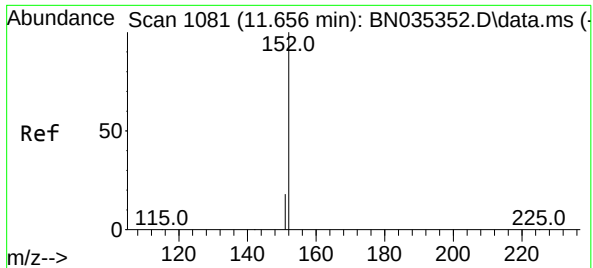
Tgt Ion:128 Resp: 5329  
Ion Ratio Lower Upper  
128 100  
129 12.4 9.8 14.6  
127 15.0 11.4 17.2



#10  
Hexachlorobutadiene  
Concen: 0.419 ng  
RT: 10.394 min Scan# 947  
Delta R.T. -0.011 min  
Lab File: BN035406.D  
Acq: 03 Dec 2024 16:35

Tgt Ion:225 Resp: 1309  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 64.6 51.3 76.9

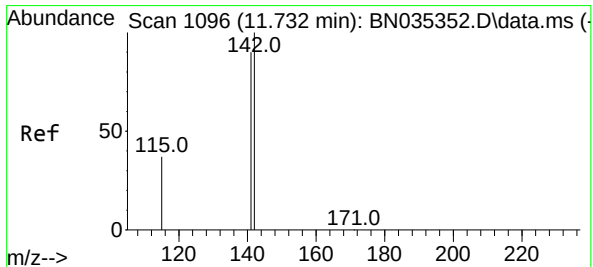
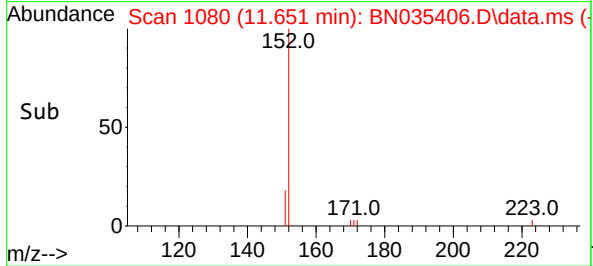
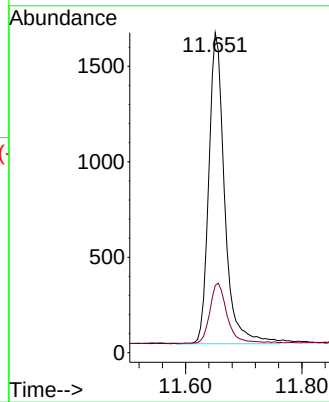
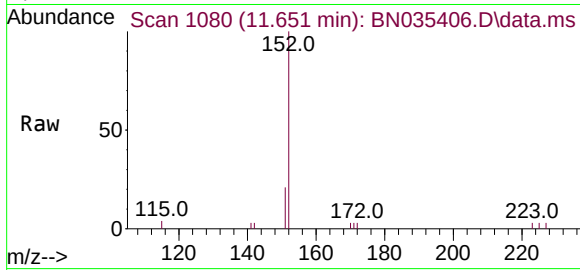




#11  
2-Methylnaphthalene-d10  
Concen: 0.384 ng  
RT: 11.651 min Scan# 1080  
Delta R.T. -0.005 min  
Lab File: BN035406.D  
Acq: 03 Dec 2024 16:35

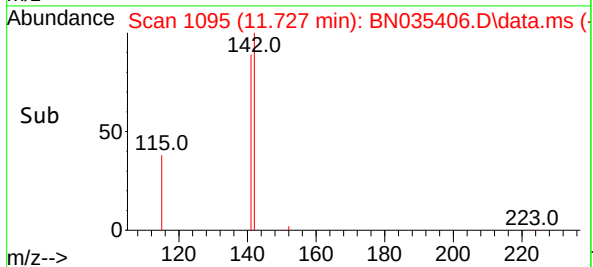
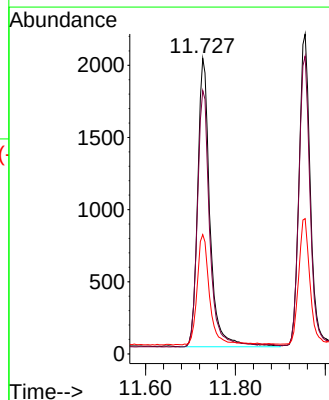
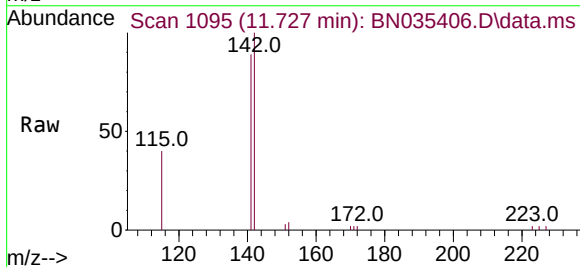
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BNA\_N  
ClientSampleId :  
SSTDCCC0.4

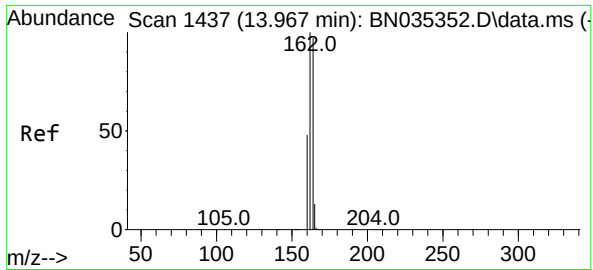
Tgt Ion:152 Resp: 3083  
Ion Ratio Lower Upper  
152 100  
151 21.4 16.6 25.0



#12  
2-Methylnaphthalene  
Concen: 0.390 ng  
RT: 11.727 min Scan# 1095  
Delta R.T. -0.005 min  
Lab File: BN035406.D  
Acq: 03 Dec 2024 16:35

Tgt Ion:142 Resp: 3781  
Ion Ratio Lower Upper  
142 100  
141 89.1 72.2 108.4  
115 40.4 31.4 47.0

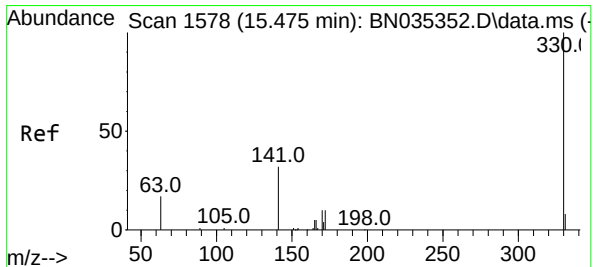
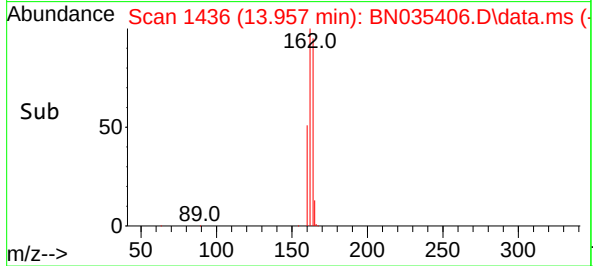
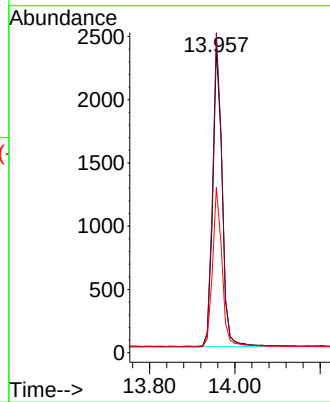
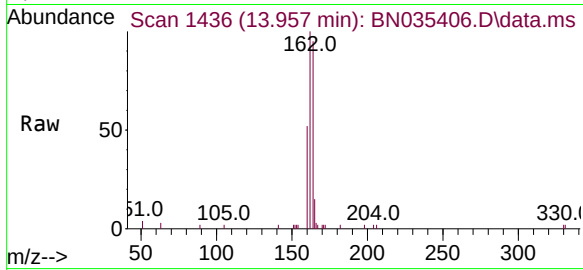




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.957 min Scan# 1437  
Delta R.T. -0.011 min  
Lab File: BN035406.D  
Acq: 03 Dec 2024 16:35

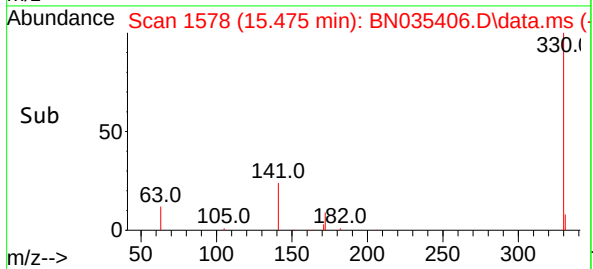
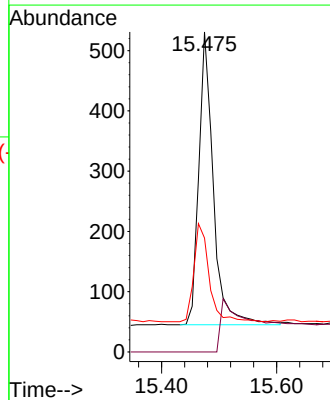
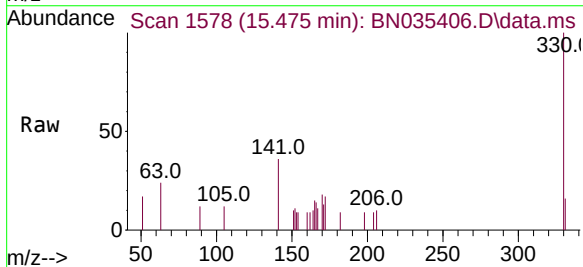
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

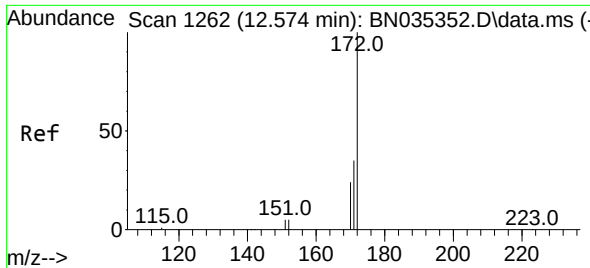
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 105.2 | 82.2  | 123.2 |
| 160     | 54.3  | 40.1  | 60.1  |



#14  
2,4,6-Tribromophenol  
Concen: 0.356 ng  
RT: 15.475 min Scan# 1578  
Delta R.T. -0.000 min  
Lab File: BN035406.D  
Acq: 03 Dec 2024 16:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 0.0   | 0.0   | 0.0   |
| 141     | 34.5  | 26.6  | 40.0  |

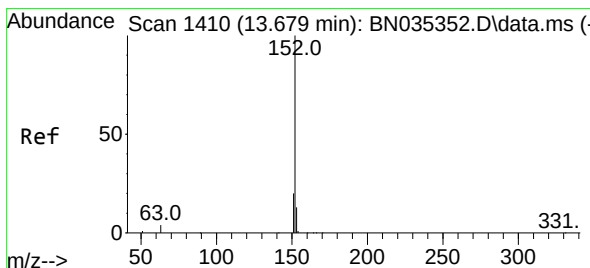
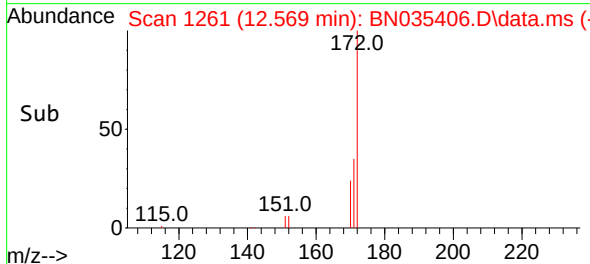
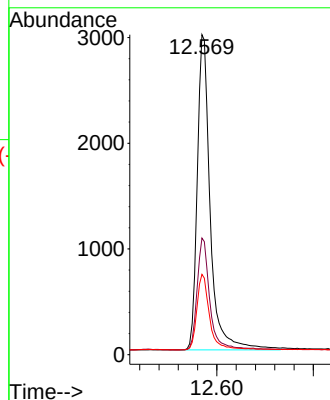
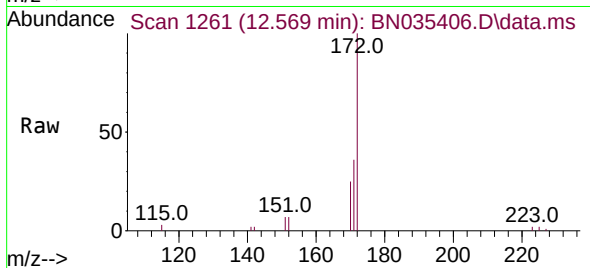




#15  
2-Fluorobiphenyl  
Concen: 0.407 ng  
RT: 12.569 min Scan# 11  
Delta R.T. -0.005 min  
Lab File: BN035406.D  
Acq: 03 Dec 2024 16:35

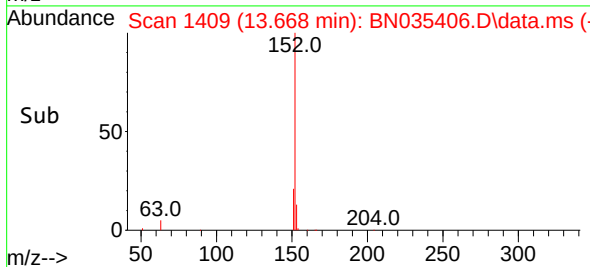
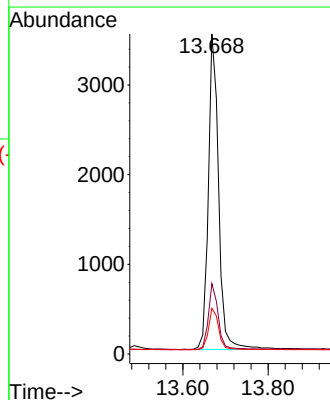
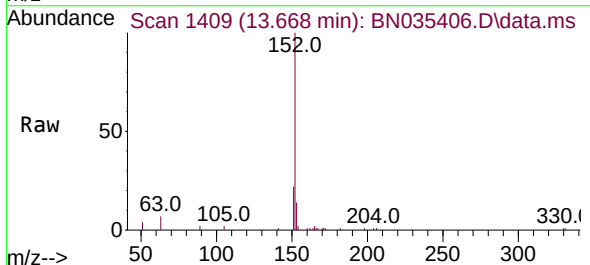
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

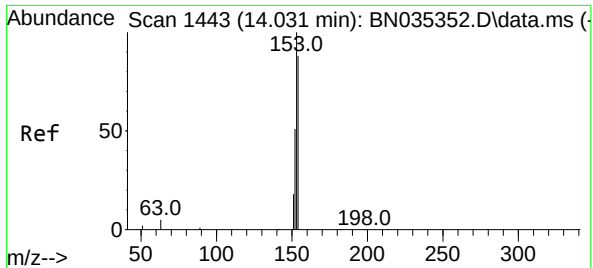
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 172   | Resp: | 5574  |
| Ion      | Ratio | Lower | Upper |
| 172      | 100   |       |       |
| 171      | 36.4  | 29.0  | 43.4  |
| 170      | 25.1  | 19.8  | 29.8  |



#16  
Acenaphthylene  
Concen: 0.387 ng  
RT: 13.668 min Scan# 1409  
Delta R.T. -0.011 min  
Lab File: BN035406.D  
Acq: 03 Dec 2024 16:35

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 152   | Resp: | 5887  |
| Ion      | Ratio | Lower | Upper |
| 152      | 100   |       |       |
| 151      | 20.2  | 16.2  | 24.2  |
| 153      | 13.2  | 10.4  | 15.6  |

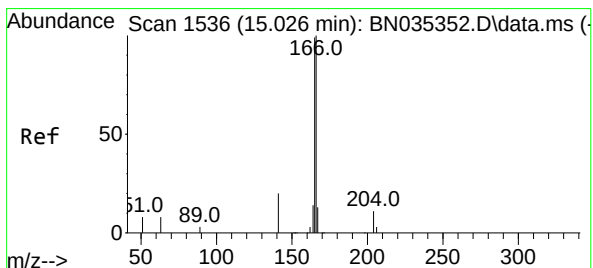
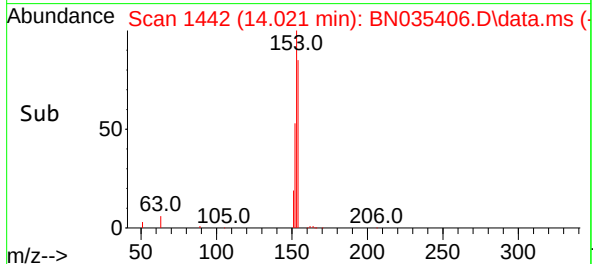
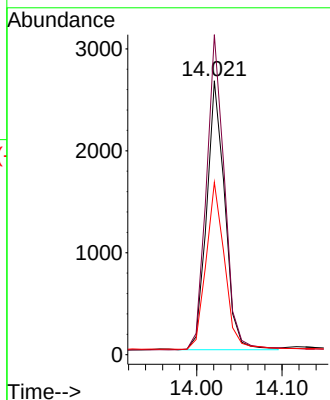
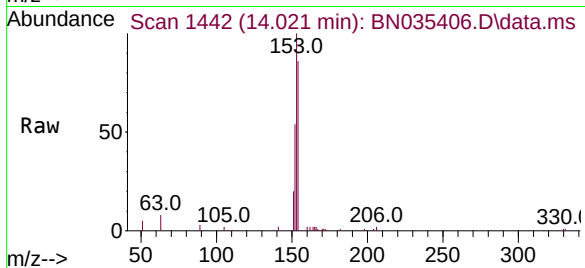




#17  
Acenaphthene  
Concen: 0.387 ng  
RT: 14.021 min Scan# 1442  
Delta R.T. -0.011 min  
Lab File: BN035406.D  
Acq: 03 Dec 2024 16:35

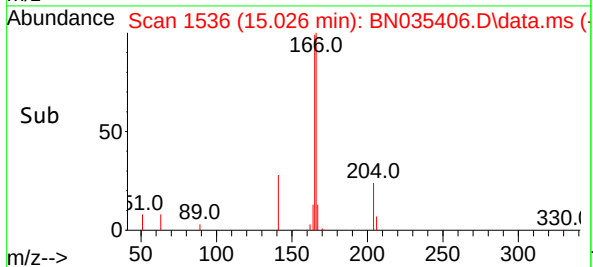
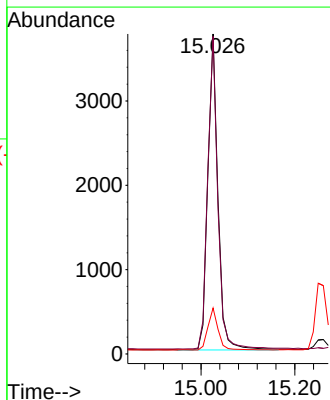
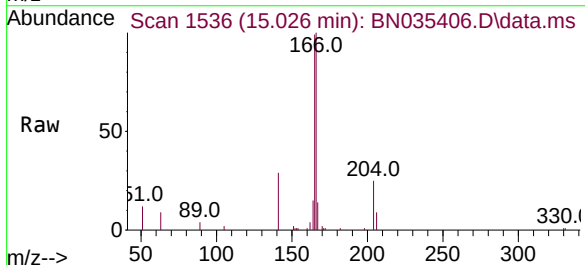
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

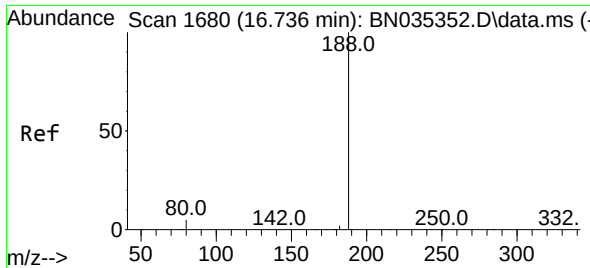
Tgt Ion:154 Resp: 3907  
Ion Ratio Lower Upper  
154 100  
153 117.9 92.6 139.0  
152 63.5 49.0 73.6



#18  
Fluorene  
Concen: 0.387 ng  
RT: 15.026 min Scan# 1536  
Delta R.T. 0.000 min  
Lab File: BN035406.D  
Acq: 03 Dec 2024 16:35

Tgt Ion:166 Resp: 5593  
Ion Ratio Lower Upper  
166 100  
165 98.8 79.7 119.5  
167 13.3 10.8 16.2

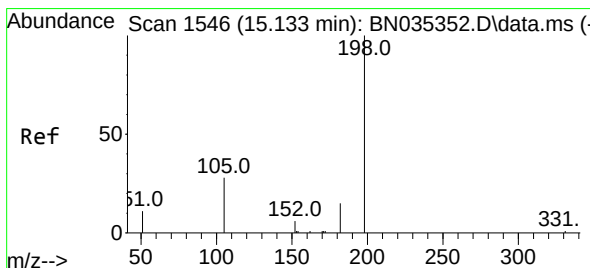
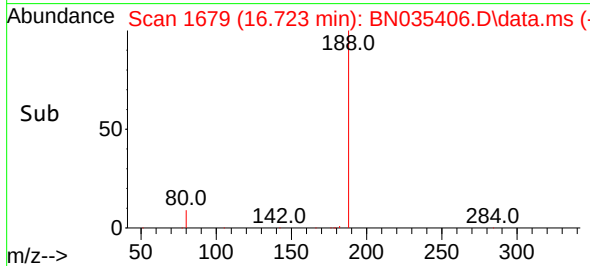
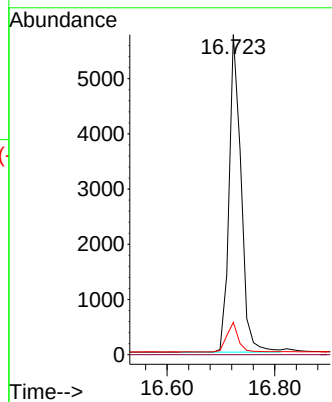
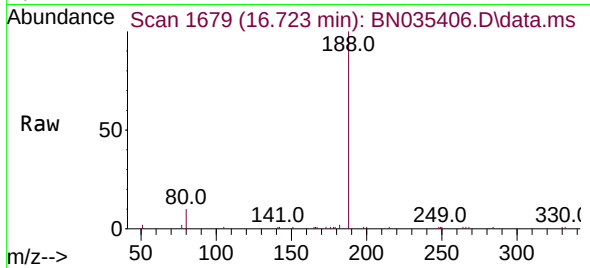




#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 16.723 min Scan# 1  
Delta R.T. -0.012 min  
Lab File: BN035406.D  
Acq: 03 Dec 2024 16:35

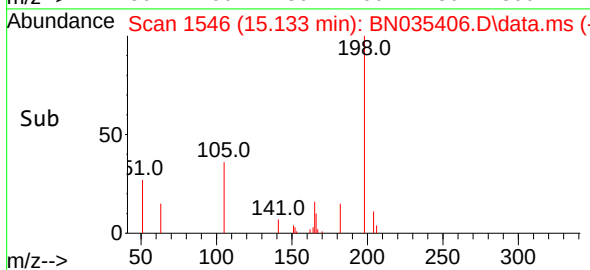
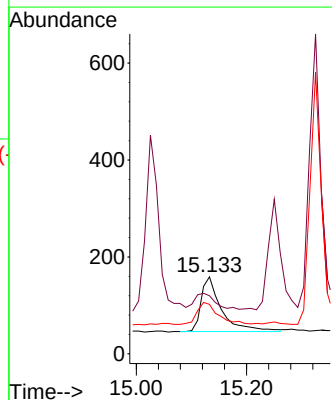
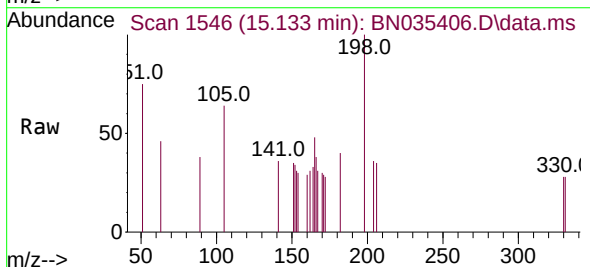
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

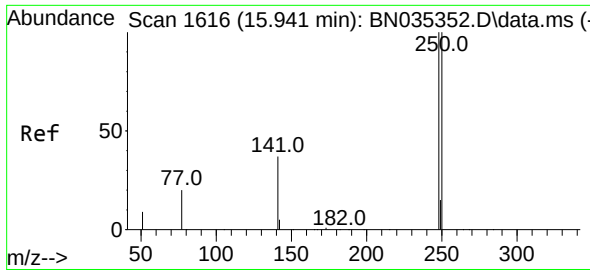
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 0.0   | 0.0   | 0.0   |
| 80      | 10.1  | 4.6   | 6.8#  |



#20  
4,6-Dinitro-2-methylphenol  
Concen: 0.334 ng  
RT: 15.133 min Scan# 1546  
Delta R.T. -0.000 min  
Lab File: BN035406.D  
Acq: 03 Dec 2024 16:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 198     | 100   |       |       |
| 51      | 75.5  | 46.5  | 69.7# |
| 105     | 64.2  | 45.3  | 67.9  |

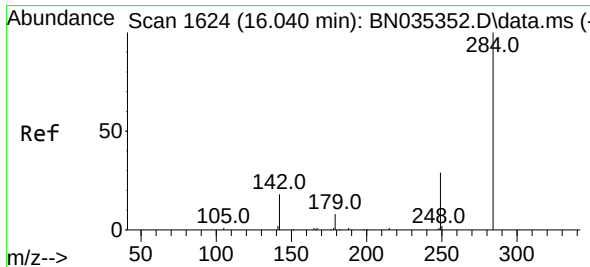
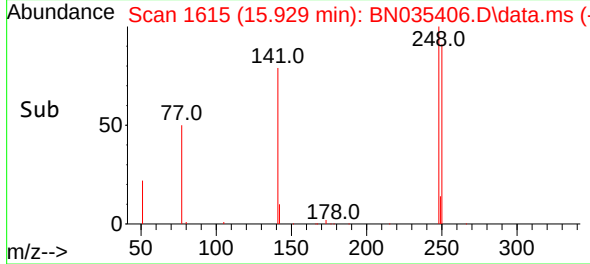
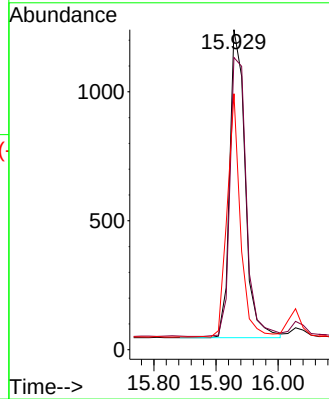
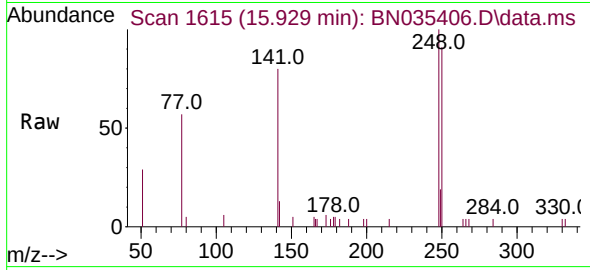




#21  
4-Bromophenyl-phenylether  
Concen: 0.397 ng  
RT: 15.929 min Scan# 1615  
Delta R.T. -0.012 min  
Lab File: BN035406.D  
Acq: 03 Dec 2024 16:35

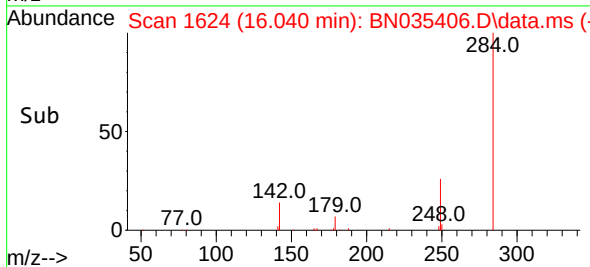
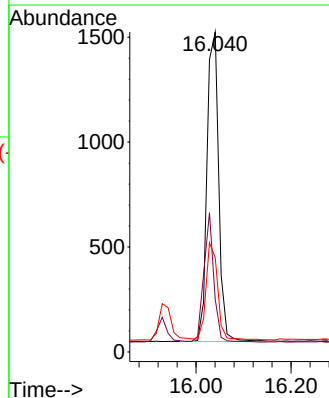
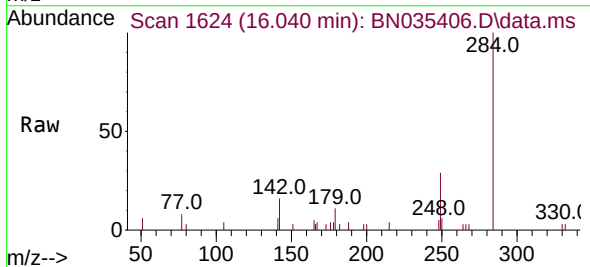
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

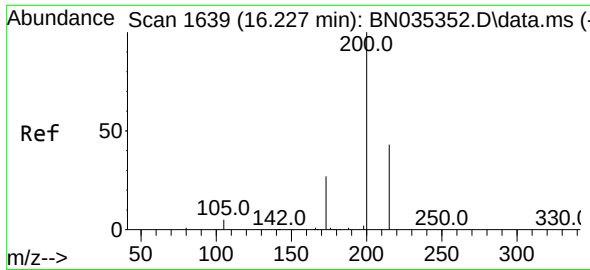
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 248     | 100   |       |       |
| 250     | 91.3  | 80.6  | 120.8 |
| 141     | 80.0  | 31.5  | 47.3  |



#22  
Hexachlorobenzene  
Concen: 0.419 ng  
RT: 16.040 min Scan# 1624  
Delta R.T. -0.000 min  
Lab File: BN035406.D  
Acq: 03 Dec 2024 16:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 284     | 100   |       |       |
| 142     | 35.4  | 26.7  | 40.1  |
| 249     | 31.2  | 24.6  | 36.8  |

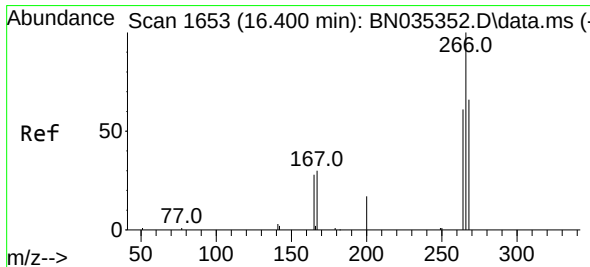
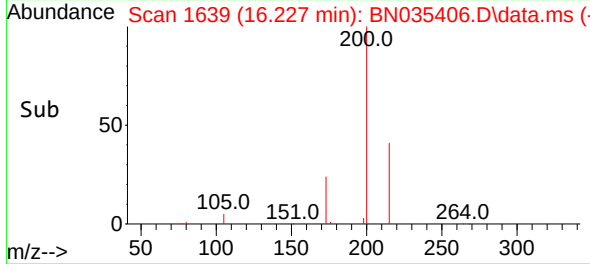
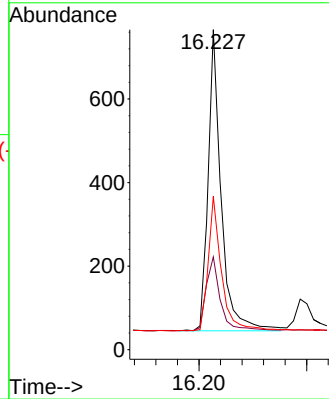
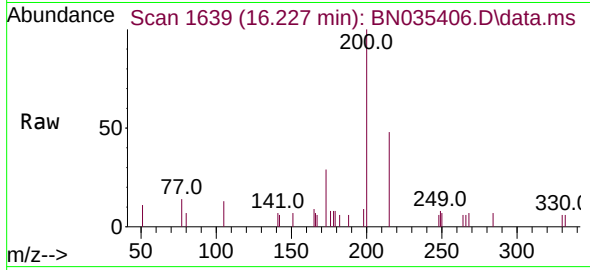




#23  
Atrazine  
Concen: 0.328 ng  
RT: 16.227 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: BN035406.D  
Acq: 03 Dec 2024 16:35

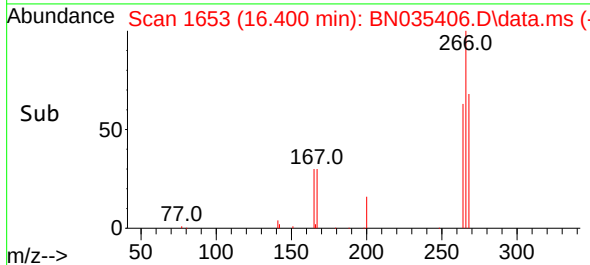
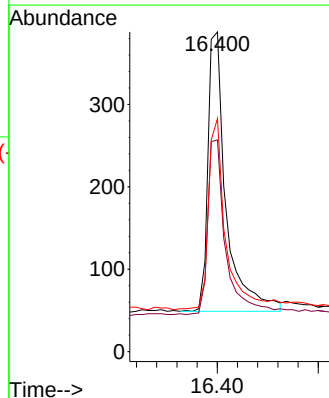
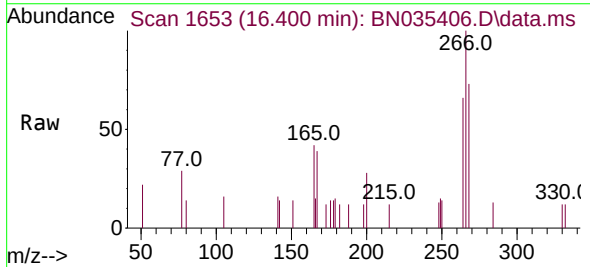
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 200     | 100   |       |       |
| 173     | 29.0  | 24.1  | 36.1  |
| 215     | 47.9  | 36.9  | 55.3  |

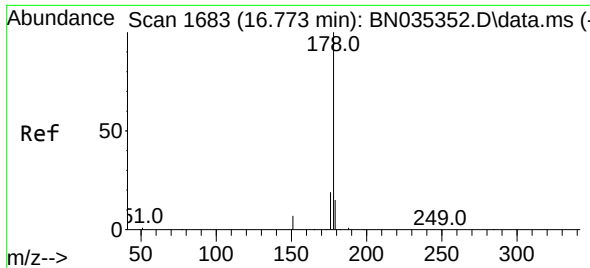


#24  
Pentachlorophenol  
Concen: 0.320 ng  
RT: 16.400 min Scan# 1653  
Delta R.T. 0.000 min  
Lab File: BN035406.D  
Acq: 03 Dec 2024 16:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 266     | 100   |       |       |
| 264     | 63.0  | 42.3  | 63.5  |
| 268     | 67.1  | 43.3  | 64.9  |



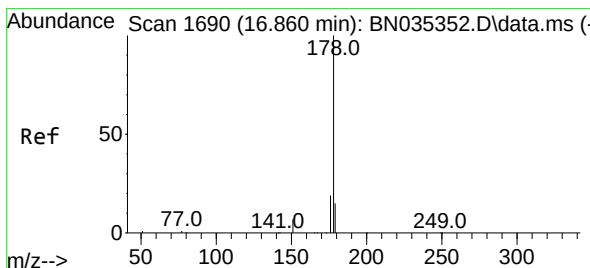
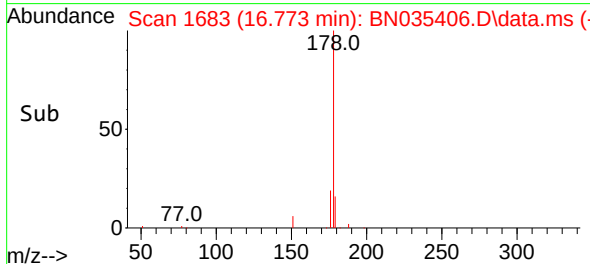
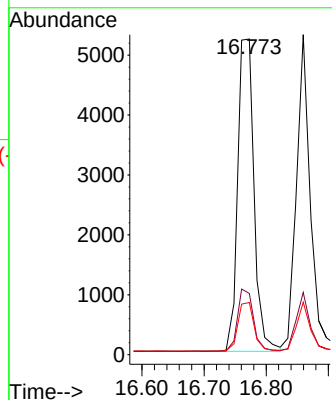
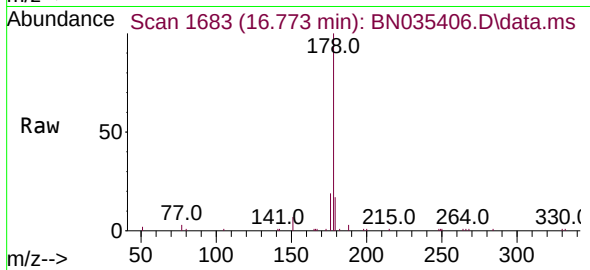




#25  
Phenanthrene  
Concen: 0.393 ng  
RT: 16.773 min Scan# 1683  
Delta R.T. -0.000 min  
Lab File: BN035406.D  
Acq: 03 Dec 2024 16:35

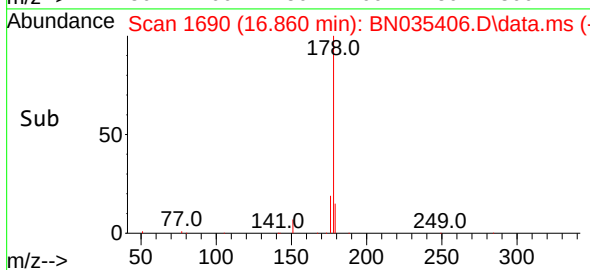
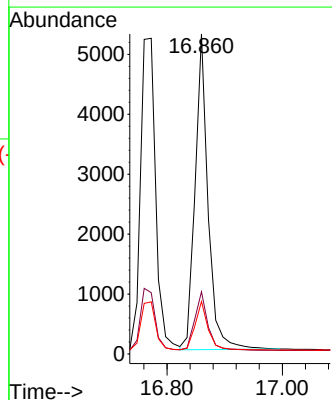
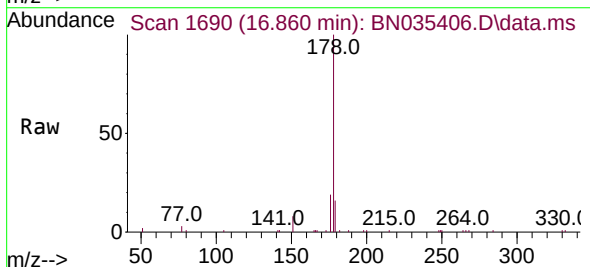
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

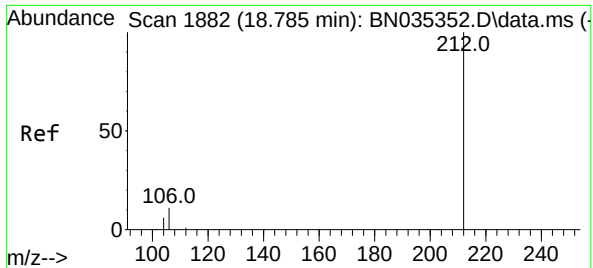
Tgt Ion:178 Resp: 9564  
Ion Ratio Lower Upper  
178 100  
176 19.5 15.4 23.2  
179 15.6 12.3 18.5



#26  
Anthracene  
Concen: 0.374 ng  
RT: 16.860 min Scan# 1690  
Delta R.T. -0.000 min  
Lab File: BN035406.D  
Acq: 03 Dec 2024 16:35

Tgt Ion:178 Resp: 8243  
Ion Ratio Lower Upper  
178 100  
176 18.9 15.0 22.6  
179 15.4 12.6 18.8

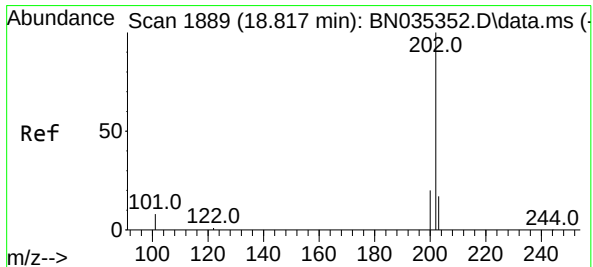
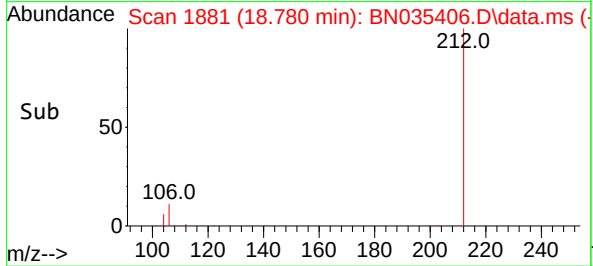
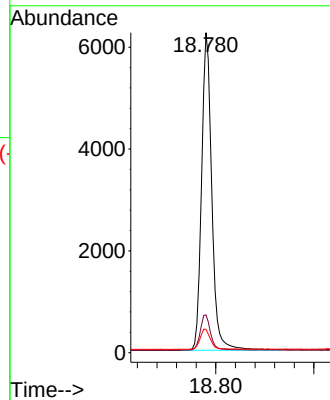
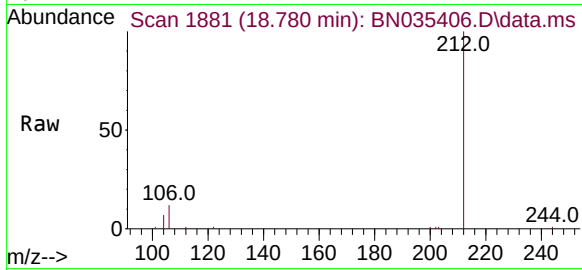




#27  
Fluoranthene-d10  
Concen: 0.359 ng  
RT: 18.780 min Scan# 1881  
Delta R.T. -0.005 min  
Lab File: BN035406.D  
Acq: 03 Dec 2024 16:35

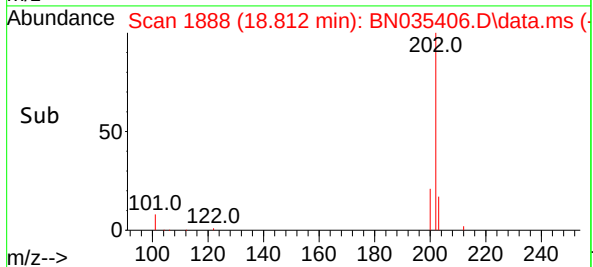
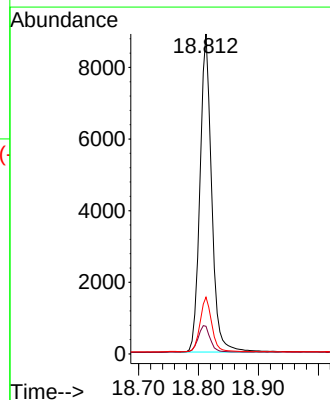
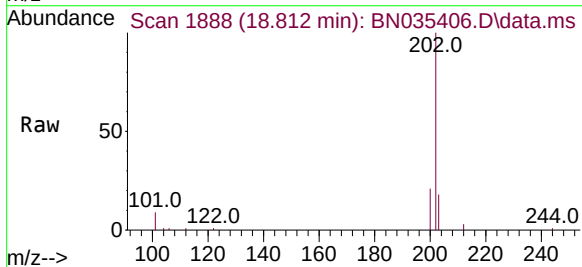
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

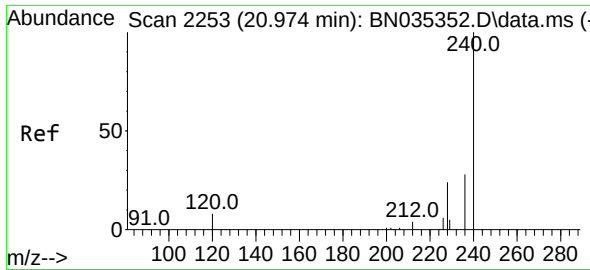
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 212     | 100   |       |       |
| 106     | 11.3  | 9.2   | 13.8  |
| 104     | 6.3   | 5.3   | 7.9   |



#28  
Fluoranthene  
Concen: 0.367 ng  
RT: 18.812 min Scan# 1888  
Delta R.T. -0.005 min  
Lab File: BN035406.D  
Acq: 03 Dec 2024 16:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 8.9   | 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: BN035406.D

Acq: 03 Dec 2024 16:35

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

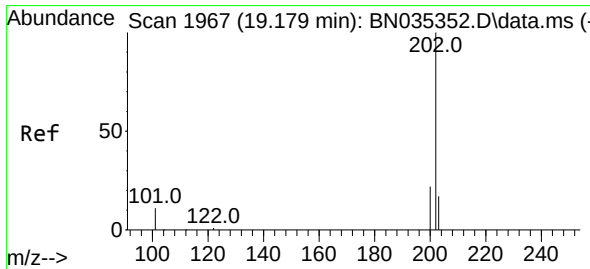
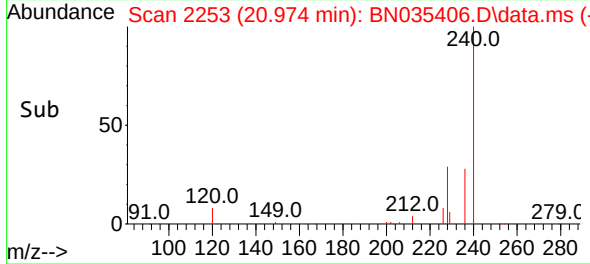
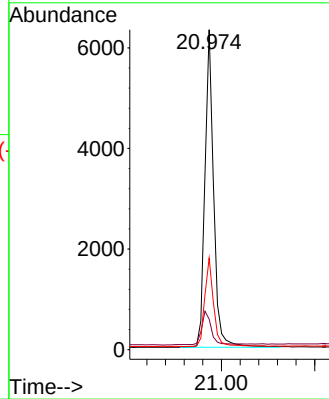
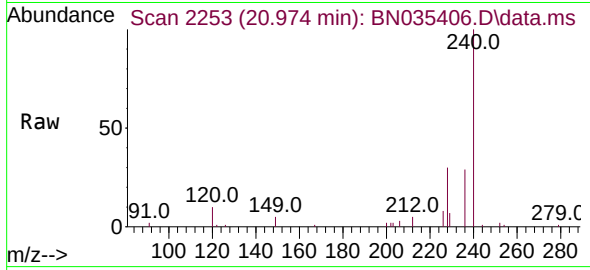
Tgt Ion:240 Resp: 8251

Ion Ratio Lower Upper

240 100

120 9.6 7.9 11.9

236 28.6 22.9 34.3



#30

Pyrene

Concen: 0.400 ng

RT: 19.179 min Scan# 1967

Delta R.T. 0.000 min

Lab File: BN035406.D

Acq: 03 Dec 2024 16:35

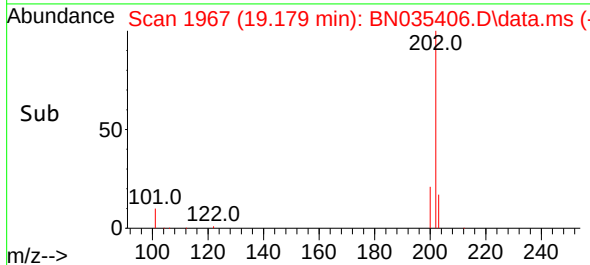
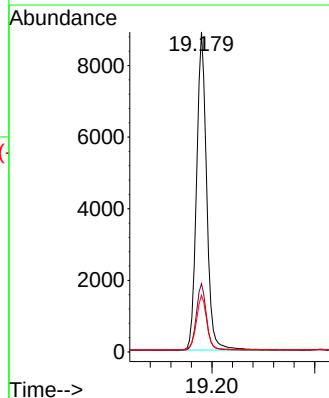
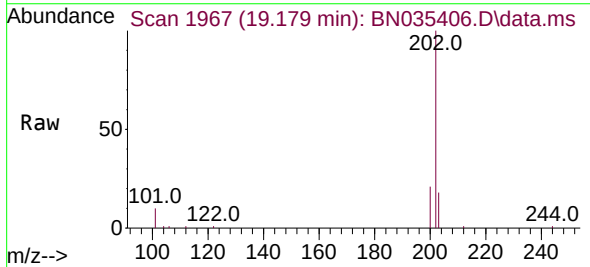
Tgt Ion:202 Resp: 12183

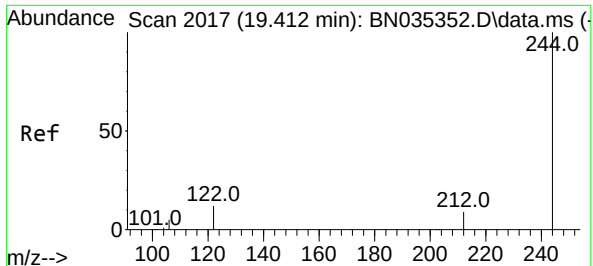
Ion Ratio Lower Upper

202 100

200 21.2 17.0 25.4

203 17.6 14.3 21.5

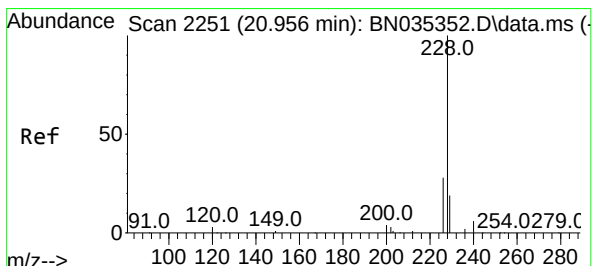
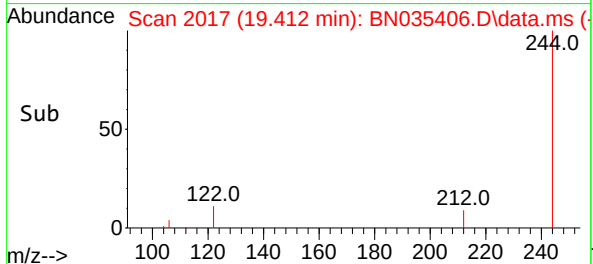
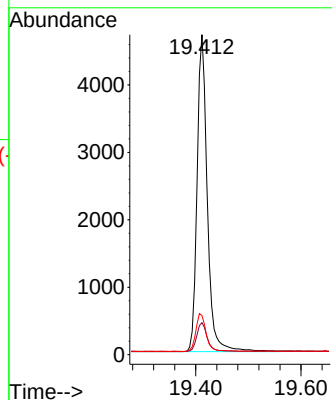
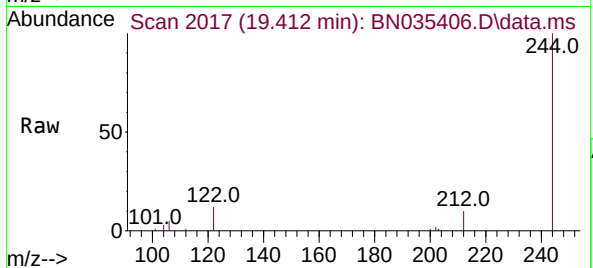




#31  
Terphenyl-d14  
Concen: 0.389 ng  
RT: 19.412 min Scan# 2017  
Delta R.T. -0.000 min  
Lab File: BN035406.D  
Acq: 03 Dec 2024 16:35

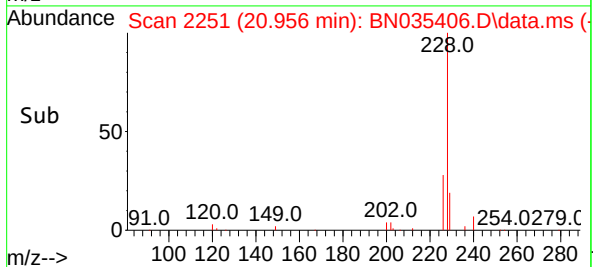
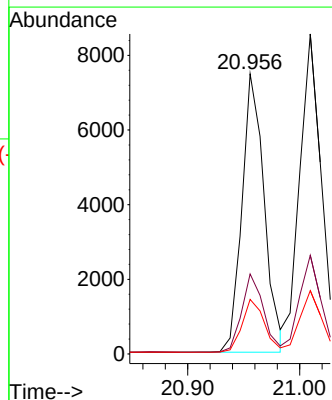
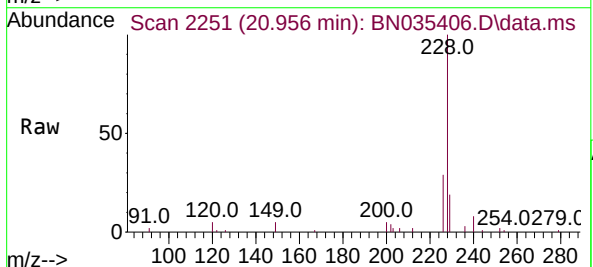
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

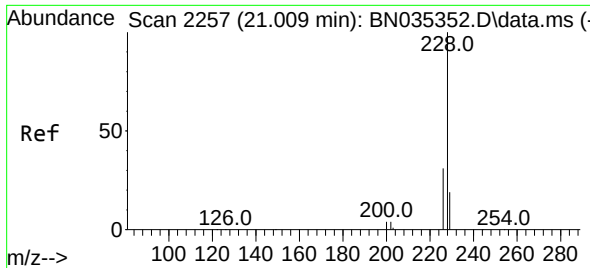
Tgt Ion:244 Resp: 6327  
Ion Ratio Lower Upper  
244 100  
212 10.0 8.1 12.1  
122 12.2 10.3 15.5



#32  
Benzo(a)anthracene  
Concen: 0.357 ng  
RT: 20.956 min Scan# 2251  
Delta R.T. 0.000 min  
Lab File: BN035406.D  
Acq: 03 Dec 2024 16:35

Tgt Ion:228 Resp: 10317  
Ion Ratio Lower Upper  
228 100  
226 28.6 22.5 33.7  
229 19.5 15.8 23.8

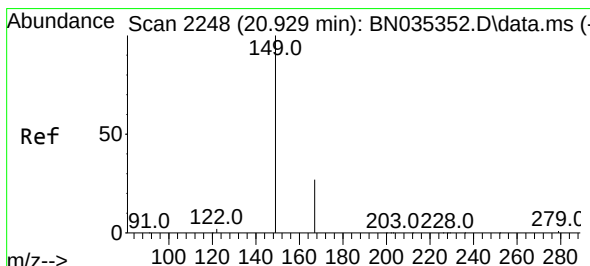
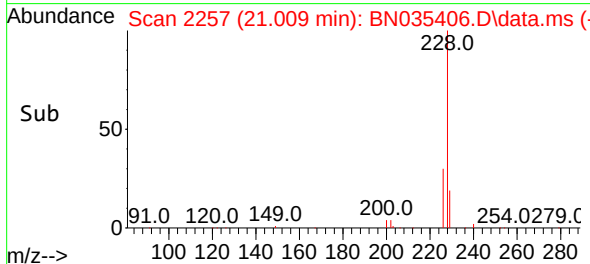
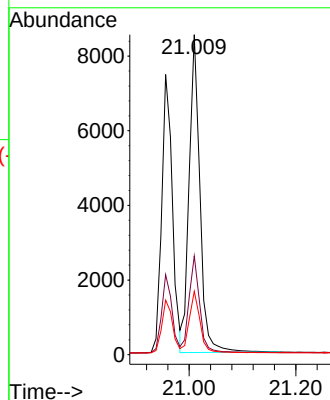
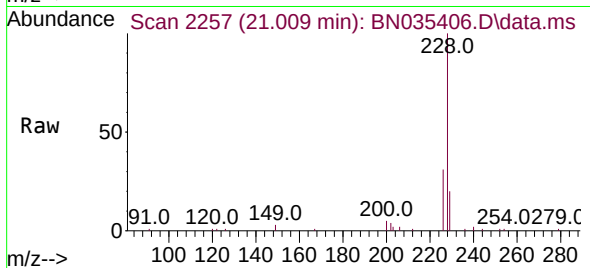




#33  
Chrysene  
Concen: 0.403 ng  
RT: 21.009 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: BN035406.D  
Acq: 03 Dec 2024 16:35

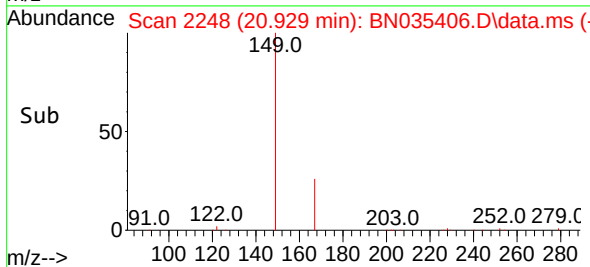
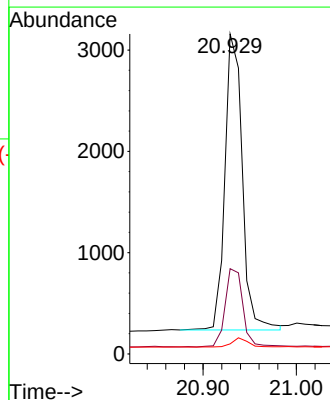
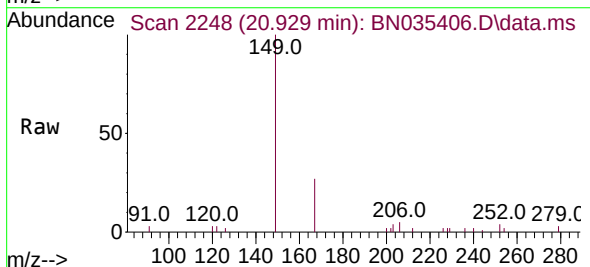
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

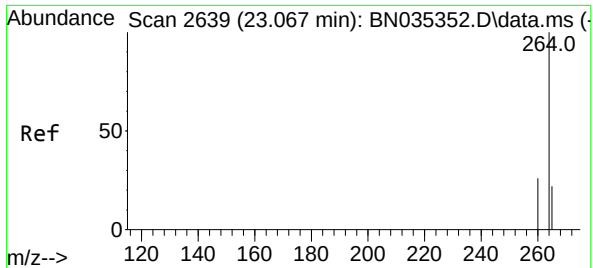
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.9  | 24.6  | 37.0  |
| 229     | 19.8  | 15.9  | 23.9  |



#34  
Bis(2-ethylhexyl)phthalate  
Concen: 0.331 ng  
RT: 20.929 min Scan# 2248  
Delta R.T. 0.000 min  
Lab File: BN035406.D  
Acq: 03 Dec 2024 16:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 27.1  | 22.2  | 33.4  |
| 279     | 3.1   | 2.7   | 4.1   |

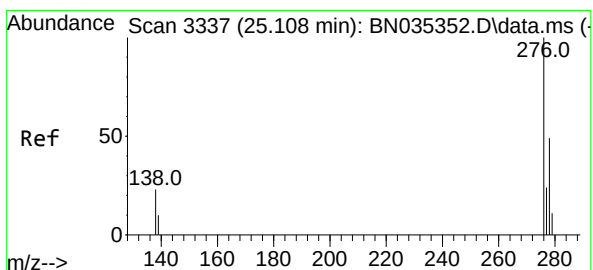
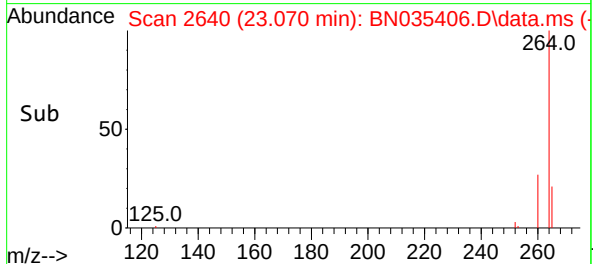
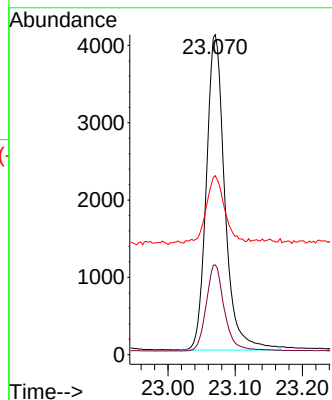
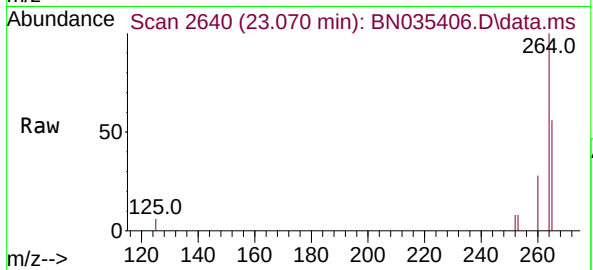




#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.070 min Scan# 2640  
Delta R.T. 0.003 min  
Lab File: BN035406.D  
Acq: 03 Dec 2024 16:35

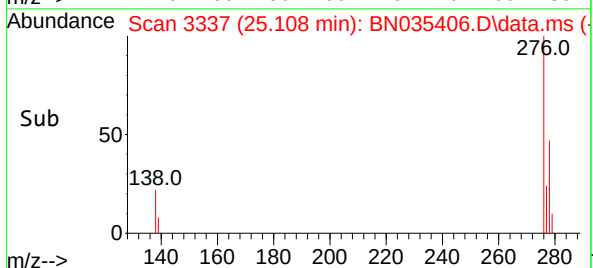
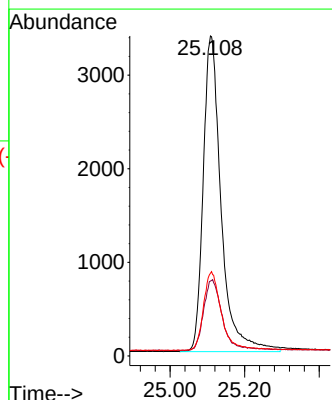
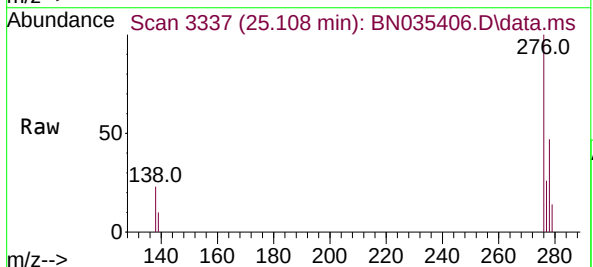
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

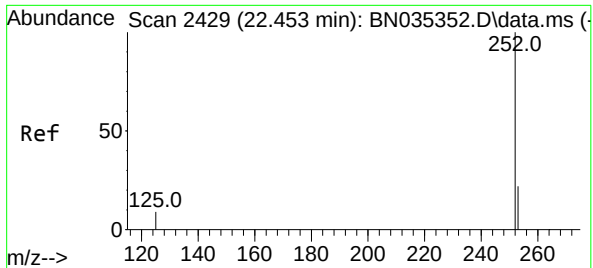
Tgt Ion:264 Resp: 7832  
Ion Ratio Lower Upper  
264 100  
260 28.1 21.4 32.2  
265 55.9 40.2 60.4



#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.368 ng  
RT: 25.108 min Scan# 3337  
Delta R.T. 0.000 min  
Lab File: BN035406.D  
Acq: 03 Dec 2024 16:35

Tgt Ion:276 Resp: 11257  
Ion Ratio Lower Upper  
276 100  
138 22.5 19.4 29.0  
277 24.3 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.390 ng

RT: 22.456 min Scan# 24

Delta R.T. 0.003 min

Lab File: BN035406.D

Acq: 03 Dec 2024 16:35

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

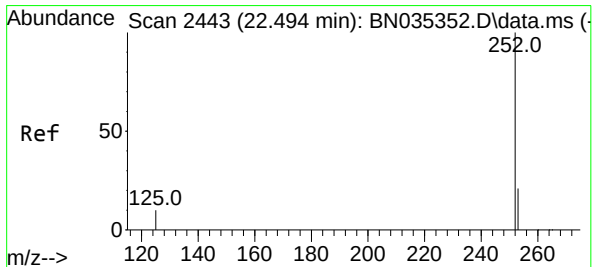
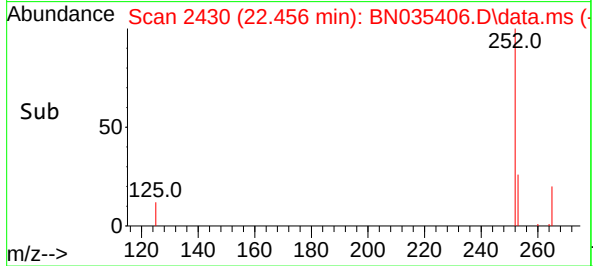
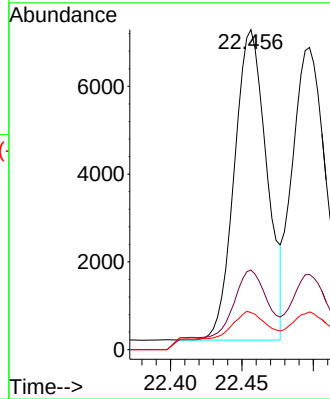
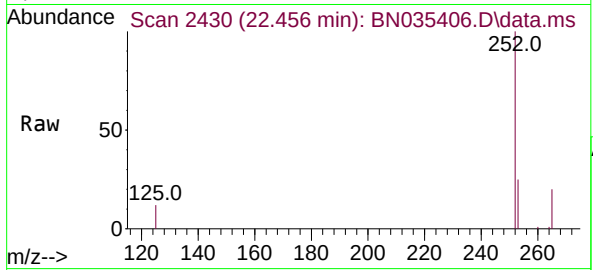
Tgt Ion:252 Resp: 11172

Ion Ratio Lower Upper

252 100

253 24.9 19.6 29.4

125 11.6 9.6 14.4



#38

Benzo(k)fluoranthene

Concen: 0.414 ng

RT: 22.497 min Scan# 2444

Delta R.T. 0.003 min

Lab File: BN035406.D

Acq: 03 Dec 2024 16:35

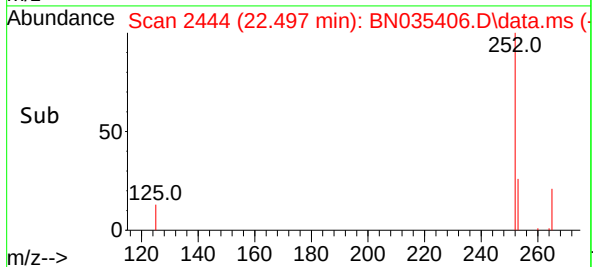
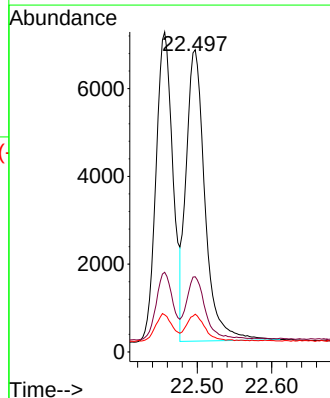
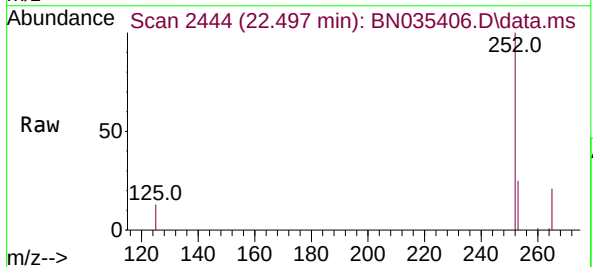
Tgt Ion:252 Resp: 11663

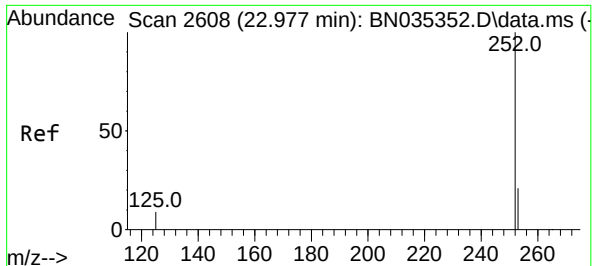
Ion Ratio Lower Upper

252 100

253 24.9 19.5 29.3

125 12.5 10.2 15.4





#39

Benzo(a)pyrene

Concen: 0.387 ng

RT: 22.980 min Scan# 2

Delta R.T. 0.003 min

Lab File: BN035406.D

Acq: 03 Dec 2024 16:35

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

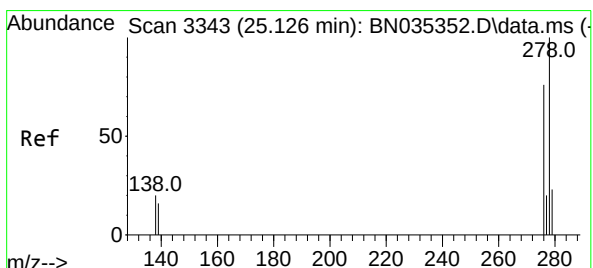
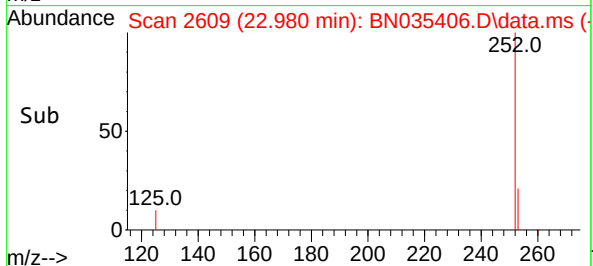
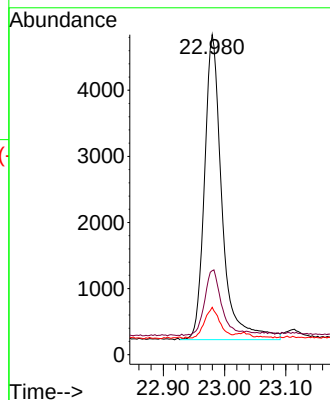
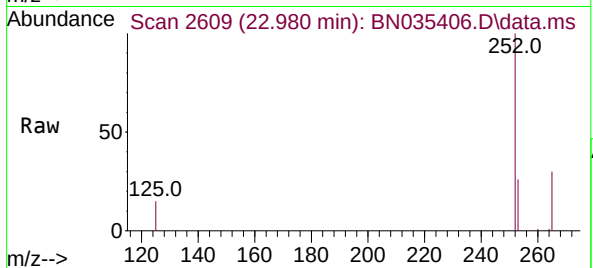
Tgt Ion:252 Resp: 9142

Ion Ratio Lower Upper

252 100

253 26.3 20.2 30.4

125 14.8 10.9 16.3



#40

Dibenzo(a,h)anthracene

Concen: 0.359 ng

RT: 25.126 min Scan# 3343

Delta R.T. -0.000 min

Lab File: BN035406.D

Acq: 03 Dec 2024 16:35

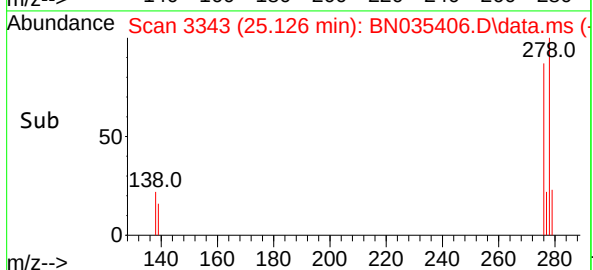
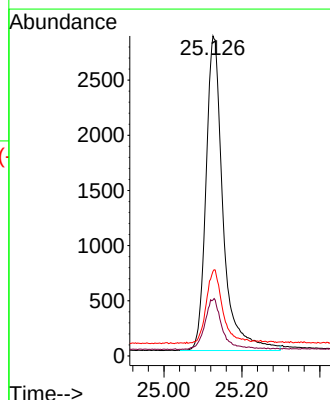
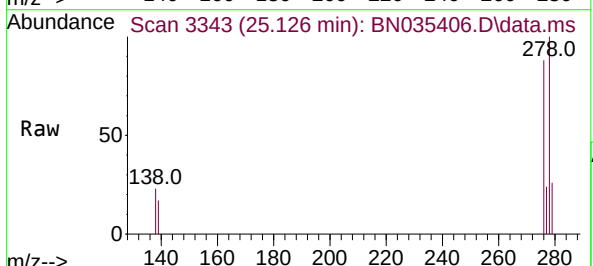
Tgt Ion:278 Resp: 8667

Ion Ratio Lower Upper

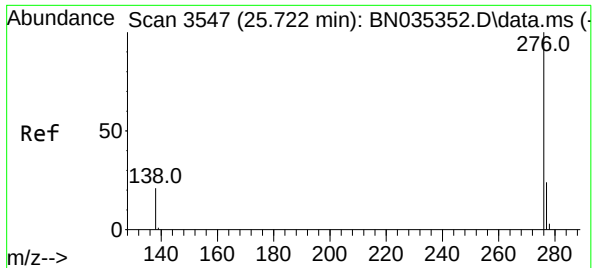
278 100

139 17.5 14.2 21.4

279 26.4 20.5 30.7







#41

Benzo(g,h,i)perylene

Concen: 0.383 ng

RT: 25.722 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN035406.D

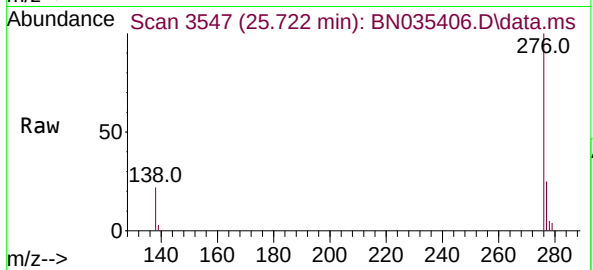
Acq: 03 Dec 2024 16:35

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4



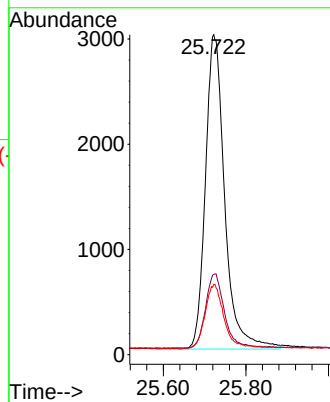
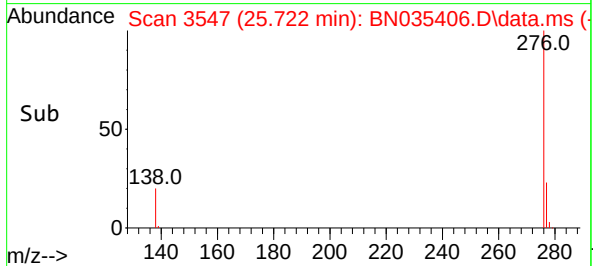
Tgt Ion:276 Resp: 9676

Ion Ratio Lower Upper

276 100

277 25.1 19.9 29.9

138 22.0 17.8 26.8



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN120424\  
Data File : BN035406.D  
Acq On : 03 Dec 2024 16:35  
Operator : RC/JU  
Sample : SSTDCCC0.4  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
BNA\_N  
LabSampleId :  
SSTDCCC0.4

Quant Time: Dec 03 17:45:31 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  | 98    | 0.00     |
| 2       | 1,4-Dioxane                | 0.382 | 0.365 | 4.5  | 95    | 0.00     |
| 3       | n-Nitrosodimethylamine     | 0.319 | 0.299 | 6.3  | 90    | 0.00     |
| 4 S     | 2-Fluorophenol             | 1.001 | 0.897 | 10.4 | 87    | 0.00     |
| 5 S     | Phenol-d6                  | 1.204 | 1.101 | 8.6  | 91    | 0.00     |
| 6       | bis(2-Chloroethyl)ether    | 1.012 | 0.953 | 5.8  | 94    | 0.00     |
| 7 I     | Naphthalene-d8             | 1.000 | 1.000 | 0.0  | 98    | 0.00     |
| 8 S     | Nitrobenzene-d5            | 0.244 | 0.236 | 3.3  | 99    | 0.00     |
| 9       | Naphthalene                | 1.055 | 1.038 | 1.6  | 97    | -0.01    |
| 10      | Hexachlorobutadiene        | 0.243 | 0.255 | -4.9 | 101   | -0.01    |
| 11 SURR | 2-Methylnaphthalene-d10    | 0.626 | 0.600 | 4.2  | 95    | 0.00     |
| 12      | 2-Methylnaphthalene        | 0.755 | 0.736 | 2.5  | 98    | 0.00     |
| 13 I    | Acenaphthene-d10           | 1.000 | 1.000 | 0.0  | 95    | -0.01    |
| 14 S    | 2,4,6-Tribromophenol       | 0.284 | 0.253 | 10.9 | 94    | 0.00     |
| 15 S    | 2-Fluorobiphenyl           | 1.512 | 1.538 | -1.7 | 97    | 0.00     |
| 16      | Acenaphthylene             | 1.680 | 1.624 | 3.3  | 97    | -0.01    |
| 17      | Acenaphthene               | 1.115 | 1.078 | 3.3  | 95    | -0.01    |
| 18      | Fluorene                   | 1.596 | 1.543 | 3.3  | 95    | 0.00     |
| 19 I    | Phenanthrene-d10           | 1.000 | 1.000 | 0.0  | 93    | -0.01    |
| 20      | 4,6-Dinitro-2-methylphenol | 0.039 | 0.033 | 15.4 | 86    | 0.00     |
| 21      | 4-Bromophenyl-phenylether  | 0.234 | 0.232 | 0.9  | 96    | -0.01    |
| 22      | Hexachlorobenzene          | 0.275 | 0.288 | -4.7 | 98    | 0.00     |
| 23      | Atrazine                   | 0.167 | 0.136 | 18.6 | 83    | 0.00     |
| 24      | Pentachlorophenol          | 0.120 | 0.096 | 20.0 | 94    | 0.00     |
| 25      | Phenanthrene               | 1.099 | 1.079 | 1.8  | 94    | 0.00     |
| 26      | Anthracene                 | 0.994 | 0.930 | 6.4  | 92    | 0.00     |
| 27 SURR | Fluoranthene-d10           | 1.134 | 1.017 | 10.3 | 88    | 0.00     |
| 28      | Fluoranthene               | 1.481 | 1.360 | 8.2  | 90    | 0.00     |
| 29 I    | Chrysene-d12               | 1.000 | 1.000 | 0.0  | 87    | 0.00     |
| 30      | Pyrene                     | 1.477 | 1.477 | 0.0  | 87    | 0.00     |
| 31 S    | Terphenyl-d14              | 0.789 | 0.767 | 2.8  | 84    | 0.00     |
| 32      | Benzo(a)anthracene         | 1.399 | 1.250 | 10.7 | 80    | 0.00     |
| 33      | Chrysene                   | 1.443 | 1.455 | -0.8 | 87    | 0.00     |
| 34      | Bis(2-ethylhexyl)phthalate | 0.553 | 0.457 | 17.4 | 77    | 0.00     |
| 35 I    | Perylene-d12               | 1.000 | 1.000 | 0.0  | 72    | 0.00     |
| 36      | Indeno(1,2,3-cd)pyrene     | 1.564 | 1.437 | 8.1  | 68    | 0.00     |
| 37      | Benzo(b)fluoranthene       | 1.463 | 1.426 | 2.5  | 78    | 0.00     |
| 38      | Benzo(k)fluoranthene       | 1.440 | 1.489 | -3.4 | 77    | 0.00     |
| 39 C    | Benzo(a)pyrene             | 1.205 | 1.167 | 3.2  | 74    | 0.00     |
| 40      | Dibenzo(a,h)anthracene     | 1.234 | 1.107 | 10.3 | 67    | 0.00     |
| 41      | Benzo(g,h,i)perylene       | 1.289 | 1.235 | 4.2  | 72    | 0.00     |

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN120424\  
Data File : BN035406.D  
Acq On : 03 Dec 2024 16:35  
Operator : RC/JU  
Sample : SSTDCCC0.4  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
BNA\_N  
LabSampleId :  
SSTDCCC0.4

Quant Time: Dec 03 17:45:31 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  | 98    | 0.00     |
| 2       | 1,4-Dioxane                | 0.400  | 0.382 | 4.5  | 95    | 0.00     |
| 3       | n-Nitrosodimethylamine     | 0.400  | 0.376 | 6.0  | 90    | 0.00     |
| 4 S     | 2-Fluorophenol             | 0.400  | 0.359 | 10.3 | 87    | 0.00     |
| 5 S     | Phenol-d6                  | 0.400  | 0.366 | 8.5  | 91    | 0.00     |
| 6       | bis(2-Chloroethyl)ether    | 0.400  | 0.377 | 5.8  | 94    | 0.00     |
| 7 I     | Naphthalene-d8             | 0.400  | 0.400 | 0.0  | 98    | 0.00     |
| 8 S     | Nitrobenzene-d5            | 0.400  | 0.386 | 3.5  | 99    | 0.00     |
| 9       | Naphthalene                | 0.400  | 0.393 | 1.8  | 97    | -0.01    |
| 10      | Hexachlorobutadiene        | 0.400  | 0.419 | -4.7 | 101   | -0.01    |
| 11 SURR | 2-Methylnaphthalene-d10    | 0.400  | 0.384 | 4.0  | 95    | 0.00     |
| 12      | 2-Methylnaphthalene        | 0.400  | 0.390 | 2.5  | 98    | 0.00     |
| 13 I    | Acenaphthene-d10           | 0.400  | 0.400 | 0.0  | 95    | -0.01    |
| 14 S    | 2,4,6-Tribromophenol       | 0.400  | 0.356 | 11.0 | 94    | 0.00     |
| 15 S    | 2-Fluorobiphenyl           | 0.400  | 0.407 | -1.7 | 97    | 0.00     |
| 16      | Acenaphthylene             | 0.400  | 0.387 | 3.3  | 97    | -0.01    |
| 17      | Acenaphthene               | 0.400  | 0.387 | 3.3  | 95    | -0.01    |
| 18      | Fluorene                   | 0.400  | 0.387 | 3.3  | 95    | 0.00     |
| 19 I    | Phenanthrene-d10           | 0.400  | 0.400 | 0.0  | 93    | -0.01    |
| 20      | 4,6-Dinitro-2-methylphenol | 0.400  | 0.334 | 16.5 | 86    | 0.00     |
| 21      | 4-Bromophenyl-phenylether  | 0.400  | 0.397 | 0.8  | 96    | -0.01    |
| 22      | Hexachlorobenzene          | 0.400  | 0.419 | -4.7 | 98    | 0.00     |
| 23      | Atrazine                   | 0.400  | 0.328 | 18.0 | 83    | 0.00     |
| 24      | Pentachlorophenol          | 0.400  | 0.320 | 20.0 | 94    | 0.00     |
| 25      | Phenanthrene               | 0.400  | 0.393 | 1.8  | 94    | 0.00     |
| 26      | Anthracene                 | 0.400  | 0.374 | 6.5  | 92    | 0.00     |
| 27 SURR | Fluoranthene-d10           | 0.400  | 0.359 | 10.3 | 88    | 0.00     |
| 28      | Fluoranthene               | 0.400  | 0.367 | 8.3  | 90    | 0.00     |
| 29 I    | Chrysene-d12               | 0.400  | 0.400 | 0.0  | 87    | 0.00     |
| 30      | Pyrene                     | 0.400  | 0.400 | 0.0  | 87    | 0.00     |
| 31 S    | Terphenyl-d14              | 0.400  | 0.389 | 2.8  | 84    | 0.00     |
| 32      | Benzo(a)anthracene         | 0.400  | 0.357 | 10.8 | 80    | 0.00     |
| 33      | Chrysene                   | 0.400  | 0.403 | -0.8 | 87    | 0.00     |
| 34      | Bis(2-ethylhexyl)phthalate | 0.400  | 0.331 | 17.3 | 77    | 0.00     |
| 35 I    | Perylene-d12               | 0.400  | 0.400 | 0.0  | 72    | 0.00     |
| 36      | Indeno(1,2,3-cd)pyrene     | 0.400  | 0.368 | 8.0  | 68    | 0.00     |
| 37      | Benzo(b)fluoranthene       | 0.400  | 0.390 | 2.5  | 78    | 0.00     |
| 38      | Benzo(k)fluoranthene       | 0.400  | 0.414 | -3.5 | 77    | 0.00     |
| 39 C    | Benzo(a)pyrene             | 0.400  | 0.387 | 3.3  | 74    | 0.00     |
| 40      | Dibenzo(a,h)anthracene     | 0.400  | 0.359 | 10.3 | 67    | 0.00     |
| 41      | Benzo(g,h,i)perylene       | 0.400  | 0.383 | 4.3  | 72    | 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.: P5065 SAS No.: P5065 SDG No.: P5065

Instrument ID: BNA\_N Calibration Date/Time: 12/03/2024 21:11

Lab File ID: BN035413.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 | 0.609  |            | -2.7 | 50.0  |
| Fluoranthene-d10        | 1.134 | 1.023  |            | -9.8 | 50.0  |
| 2-Fluorophenol          | 1.001 | 0.907  |            | -9.4 | 50.0  |
| Phenol-d6               | 1.204 | 1.095  |            | -9.1 | 50.0  |
| Nitrobenzene-d5         | 0.244 | 0.240  |            | -1.6 | 50.0  |
| 2-Fluorobiphenyl        | 1.512 | 1.547  |            | 2.3  | 50.0  |
| 2,4,6-Tribromophenol    | 0.284 | 0.256  |            | -9.9 | 50.0  |
| Terphenyl-d14           | 0.789 | 0.795  |            | 0.8  | 50.0  |
| 1,4-Dioxane             | 0.382 | 0.384  |            | 0.5  | 50.0  |

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN120424\  
 Data File : BN035413.D  
 Acq On : 03 Dec 2024 21:11  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4EC

Quant Time: Dec 03 22:06:25 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

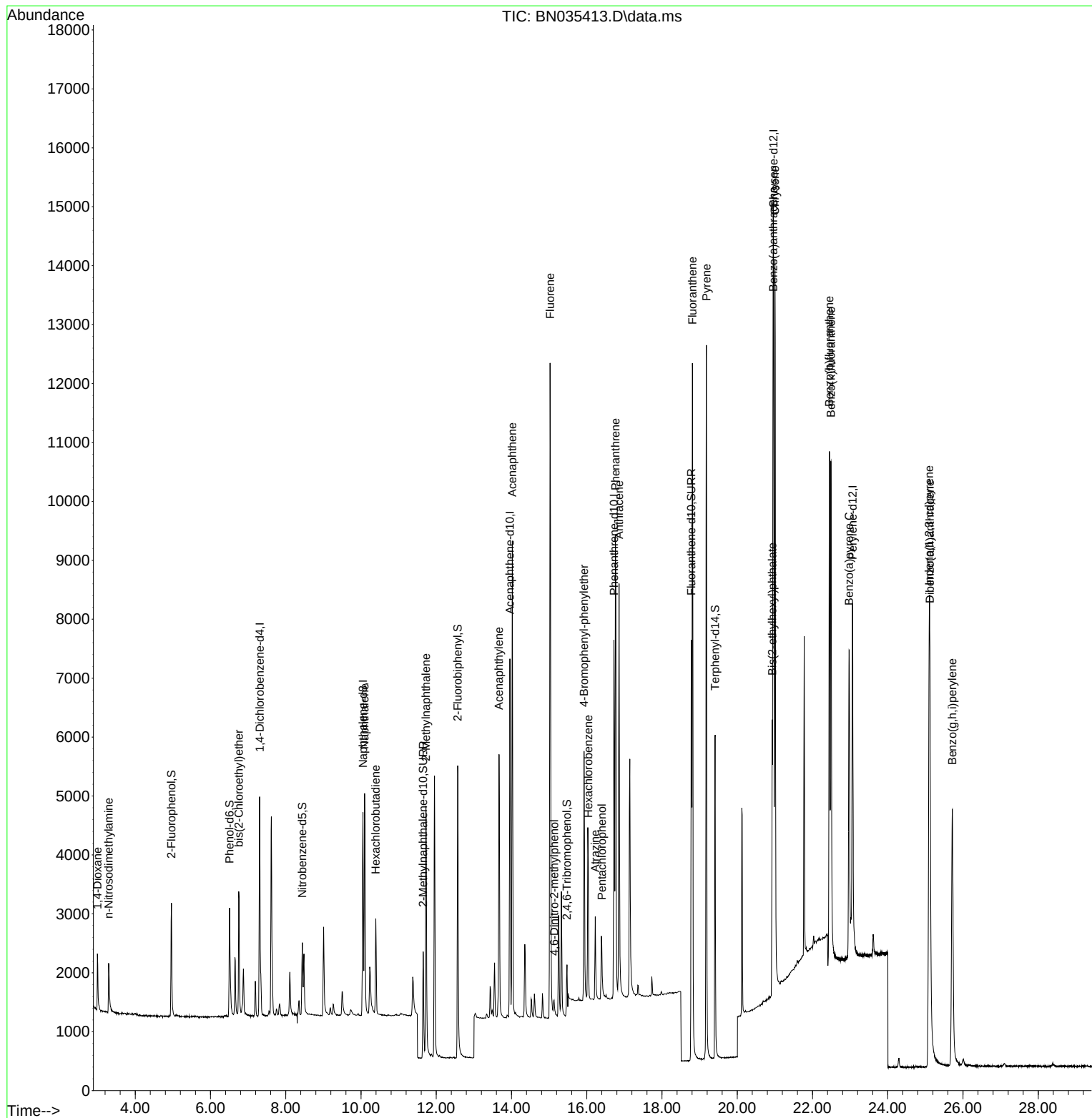
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.308  | 152  | 1905     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.052 | 136  | 4842     | 0.400 | ng    | # 0.00   |
| 13) Acenaphthene-d10          | 13.957 | 164  | 3417     | 0.400 | ng    | -0.01    |
| 19) Phenanthrene-d10          | 16.723 | 188  | 8599     | 0.400 | ng    | #-0.01   |
| 29) Chrysene-d12              | 20.965 | 240  | 7834     | 0.400 | ng    | # 0.00   |
| 35) Perylene-d12              | 23.064 | 264  | 7769     | 0.400 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 4.960  | 112  | 1727     | 0.362 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.506  | 99   | 2086     | 0.364 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.440  | 82   | 1162m    | 0.393 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.651 | 152  | 2948     | 0.389 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.475 | 330  | 874      | 0.360 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.569 | 172  | 5285     | 0.409 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 18.780 | 212  | 8797     | 0.361 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.412 | 244  | 6230     | 0.403 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
|                               |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 2.996  | 88   | 731      | 0.401 | ng    | 98       |
| 3) n-Nitrosodimethylamine     | 3.292  | 42   | 561      | 0.370 | ng    | # 91     |
| 6) bis(2-Chloroethyl)ether    | 6.752  | 93   | 1811     | 0.376 | ng    | 98       |
| 9) Naphthalene                | 10.095 | 128  | 5107     | 0.400 | ng    | 99       |
| 10) Hexachlorobutadiene       | 10.394 | 225  | 1291     | 0.438 | ng    | # 100    |
| 12) 2-Methylnaphthalene       | 11.727 | 142  | 3555     | 0.389 | ng    | 98       |
| 16) Acenaphthylene            | 13.668 | 152  | 5470     | 0.381 | ng    | 99       |
| 17) Acenaphthene              | 14.021 | 154  | 3732     | 0.392 | ng    | 98       |
| 18) Fluorene                  | 15.026 | 166  | 5390     | 0.395 | ng    | 100      |
| 20) 4,6-Dinitro-2-methylph... | 15.133 | 198  | 303      | 0.358 | ng    | 97       |
| 21) 4-Bromophenyl-phenylether | 15.929 | 248  | 1954     | 0.388 | ng    | # 74     |
| 22) Hexachlorobenzene         | 16.040 | 284  | 2442     | 0.413 | ng    | 97       |
| 23) Atrazine                  | 16.227 | 200  | 1233     | 0.344 | ng    | 97       |
| 24) Pentachlorophenol         | 16.400 | 266  | 742      | 0.289 | ng    | 87       |
| 25) Phenanthrene              | 16.760 | 178  | 9217     | 0.390 | ng    | 100      |
| 26) Anthracene                | 16.860 | 178  | 7974     | 0.373 | ng    | 100      |
| 28) Fluoranthene              | 18.812 | 202  | 11723    | 0.368 | ng    | 99       |
| 30) Pyrene                    | 19.179 | 202  | 11845    | 0.410 | ng    | 100      |
| 32) Benzo(a)anthracene        | 20.956 | 228  | 10025    | 0.366 | ng    | 100      |
| 33) Chrysene                  | 21.001 | 228  | 11323    | 0.401 | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 20.929 | 149  | 3811     | 0.352 | ng    | 99       |
| 36) Indeno(1,2,3-cd)pyrene    | 25.099 | 276  | 11352    | 0.374 | ng    | 98       |
| 37) Benzo(b)fluoranthene      | 22.448 | 252  | 12967    | 0.456 | ng    | 100      |
| 38) Benzo(k)fluoranthene      | 22.488 | 252  | 11373    | 0.407 | ng    | 99       |
| 39) Benzo(a)pyrene            | 22.974 | 252  | 8498     | 0.363 | ng    | 98       |
| 40) Dibenzo(a,h)anthracene    | 25.120 | 278  | 8673     | 0.362 | ng    | 98       |
| 41) Benzo(g,h,i)perylene      | 25.716 | 276  | 9224     | 0.368 | ng    | 99       |

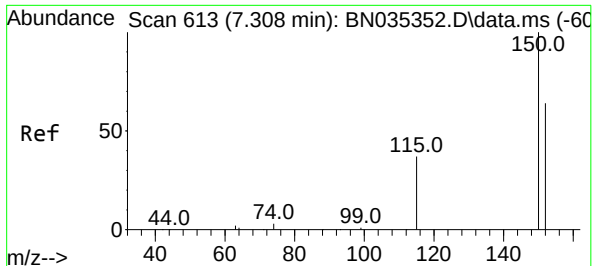
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Data File : BN035413.D  
Acq On : 03 Dec 2024 21:11  
Operator : RC/JU  
Sample : SSTDCCC0.4  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

Quant Time: Dec 03 22:06:25 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

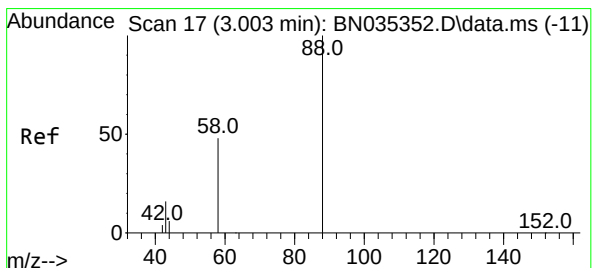
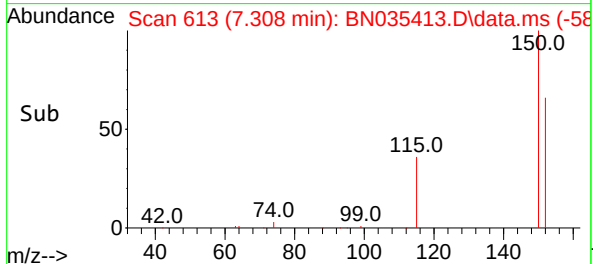
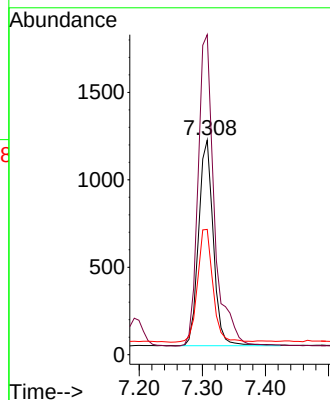
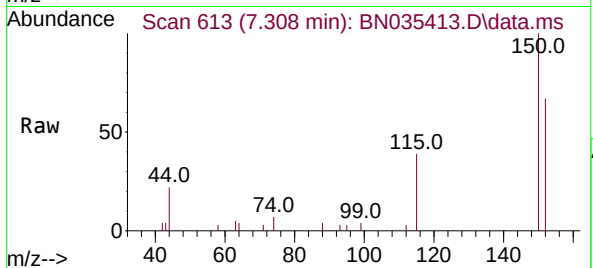




#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.308 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: BN035413.D  
Acq: 03 Dec 2024 21:11

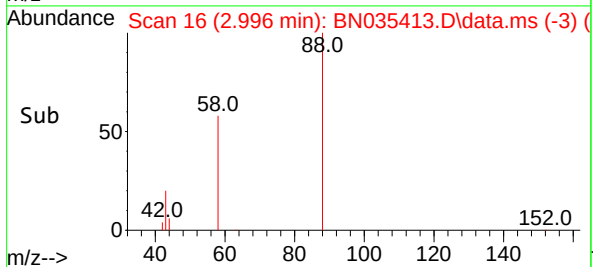
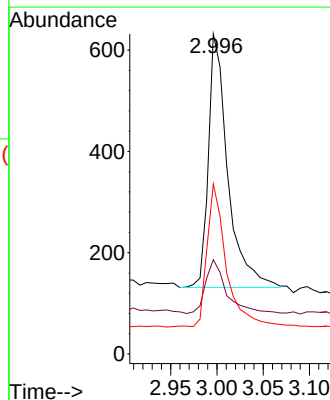
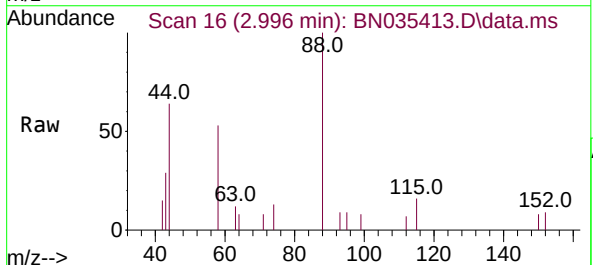
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

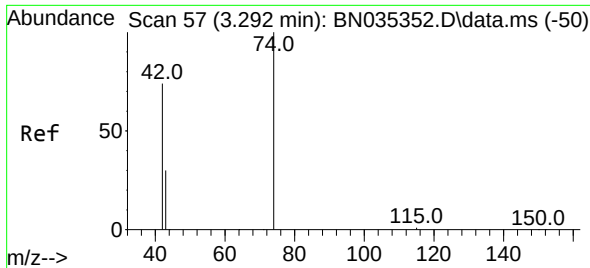
Tgt Ion:152 Resp: 1905  
Ion Ratio Lower Upper  
152 100  
150 149.1 124.0 186.0  
115 58.4 49.6 74.4



#2  
1,4-Dioxane  
Concen: 0.401 ng  
RT: 2.996 min Scan# 16  
Delta R.T. -0.007 min  
Lab File: BN035413.D  
Acq: 03 Dec 2024 21:11

Tgt Ion: 88 Resp: 731  
Ion Ratio Lower Upper  
88 100  
43 22.7 17.2 25.8  
58 56.6 44.5 66.7

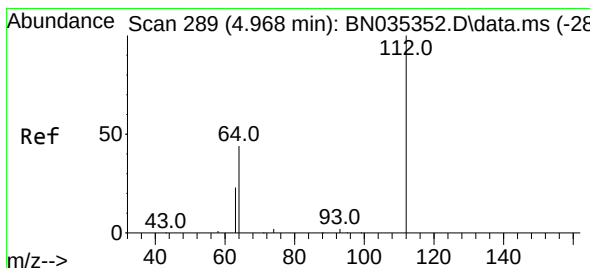
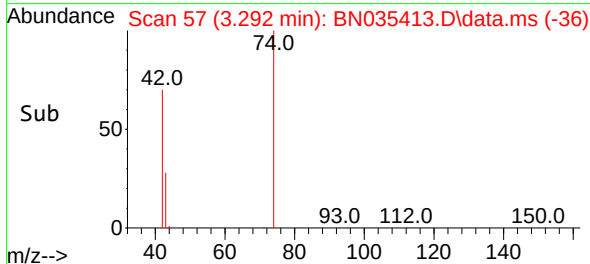
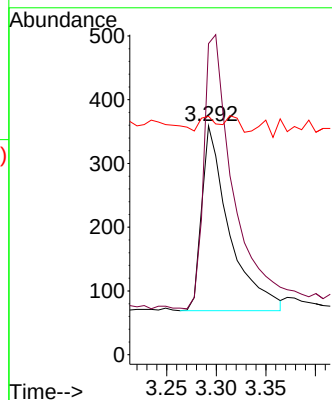
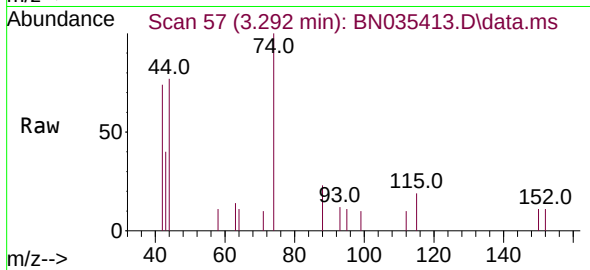




#3  
n-Nitrosodimethylamine  
Concen: 0.370 ng  
RT: 3.292 min Scan# 51  
Delta R.T. 0.000 min  
Lab File: BN035413.D  
Acq: 03 Dec 2024 21:11

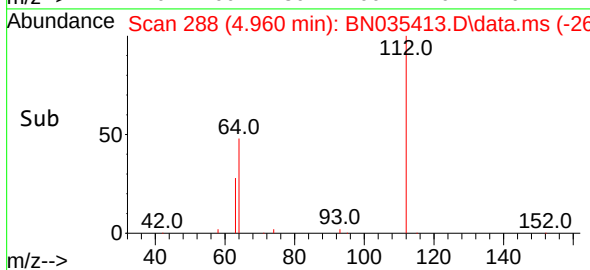
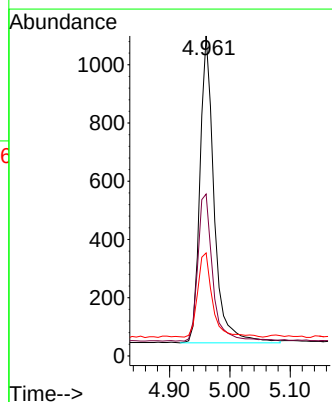
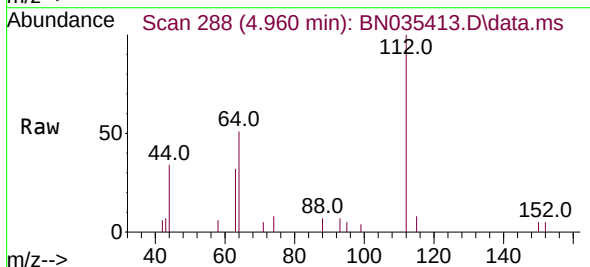
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

Tgt Ion: 42 Resp: 561  
Ion Ratio Lower Upper  
42 100  
74 167.4 124.9 187.3  
44 5.0 2.2 3.4#

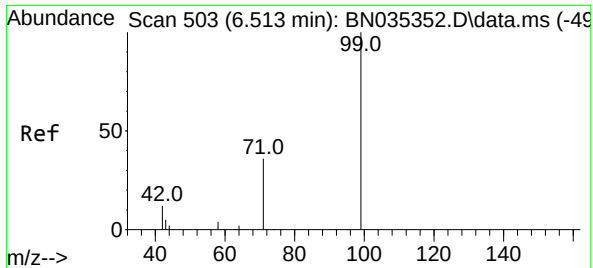


#4  
2-Fluorophenol  
Concen: 0.362 ng  
RT: 4.960 min Scan# 288  
Delta R.T. -0.007 min  
Lab File: BN035413.D  
Acq: 03 Dec 2024 21:11

Tgt Ion: 112 Resp: 1727  
Ion Ratio Lower Upper  
112 100  
64 50.1 39.8 59.8  
63 28.4 21.0 31.6



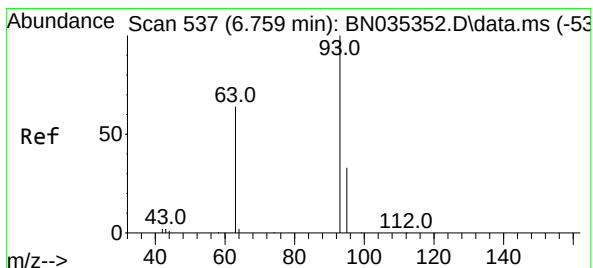
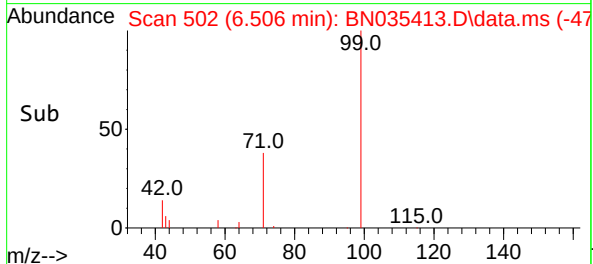
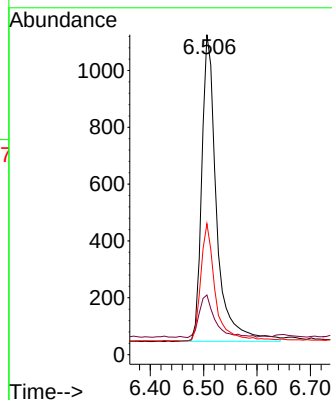
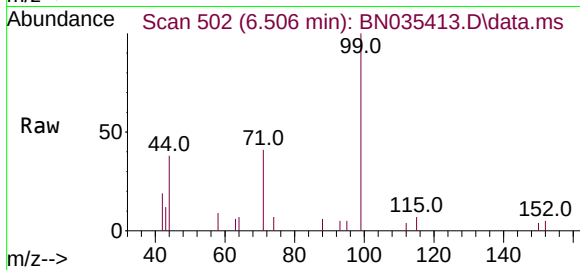




#5  
Phenol-d6  
Concen: 0.364 ng  
RT: 6.506 min Scan# 503  
Delta R.T. -0.007 min  
Lab File: BN035413.D  
Acq: 03 Dec 2024 21:11

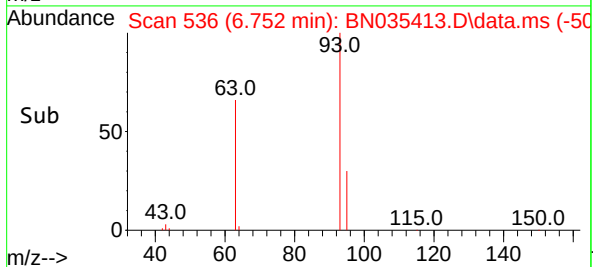
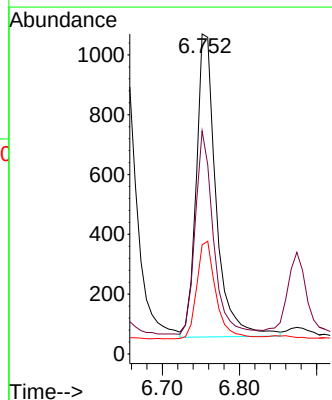
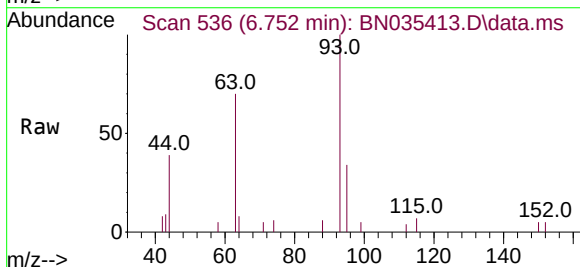
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BNA\_N  
ClientSampleId :  
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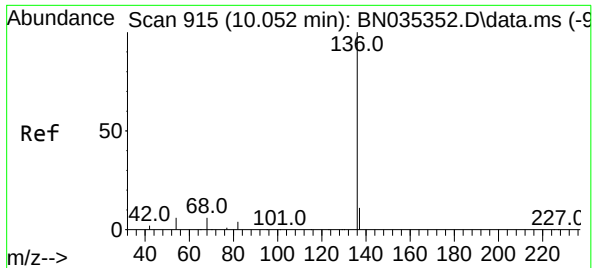
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 99    | Resp: | 2086  |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 15.0  | 11.4  | 17.2  |
| 71       | 37.5  | 29.3  | 43.9  |



#6  
bis(2-Chloroethyl)ether  
Concen: 0.376 ng  
RT: 6.752 min Scan# 536  
Delta R.T. -0.007 min  
Lab File: BN035413.D  
Acq: 03 Dec 2024 21:11

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 93    | Resp: | 1811  |
| Ion      | Ratio | Lower | Upper |
| 93       | 100   |       |       |
| 63       | 61.8  | 50.4  | 75.6  |
| 95       | 31.1  | 25.7  | 38.5  |

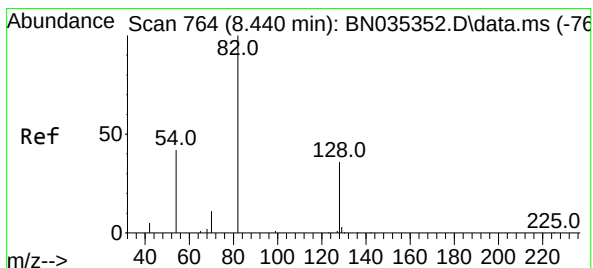
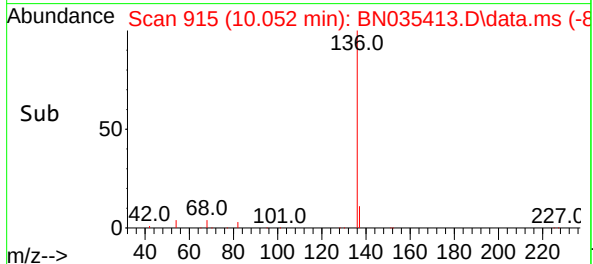
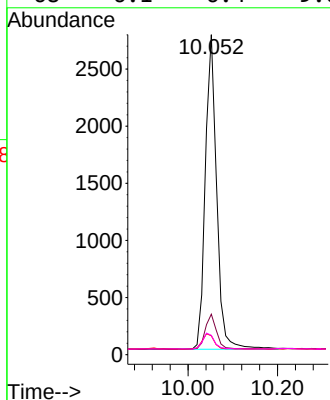
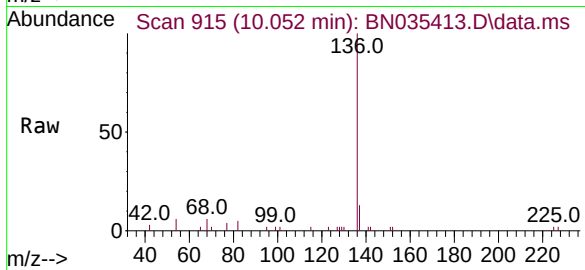




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.052 min Scan# 915  
Delta R.T. 0.000 min  
Lab File: BN035413.D  
Acq: 03 Dec 2024 21:11

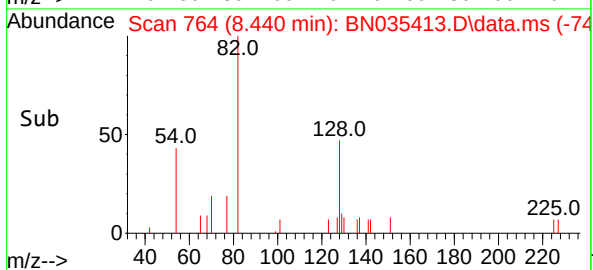
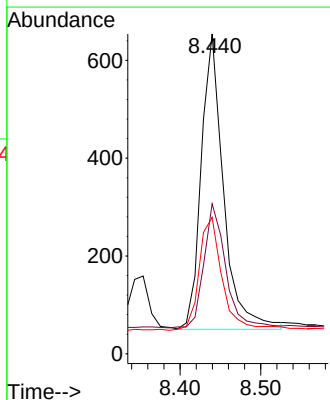
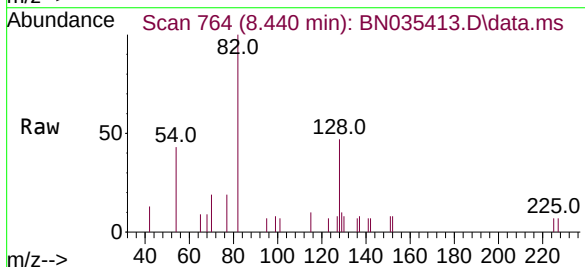
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

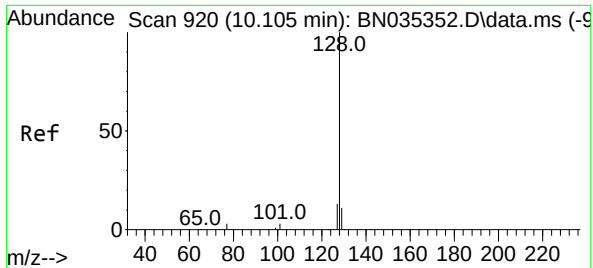
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 4842  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 12.7  | 10.2  | 15.2  |
| 54       | 5.9   | 6.1   | 9.1#  |
| 68       | 6.1   | 6.4   | 9.6#  |



#8  
Nitrobenzene-d5  
Concen: 0.393 ng m  
RT: 8.440 min Scan# 764  
Delta R.T. 0.000 min  
Lab File: BN035413.D  
Acq: 03 Dec 2024 21:11

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 1162  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 46.9  | 33.4  | 50.0  |
| 54       | 42.7  | 36.7  | 55.1  |

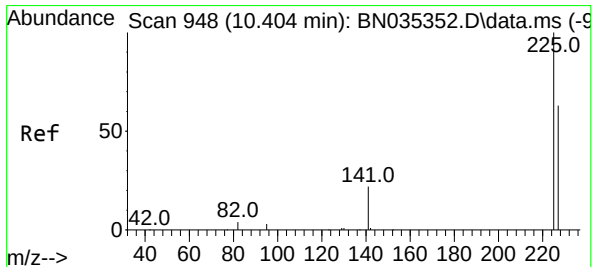
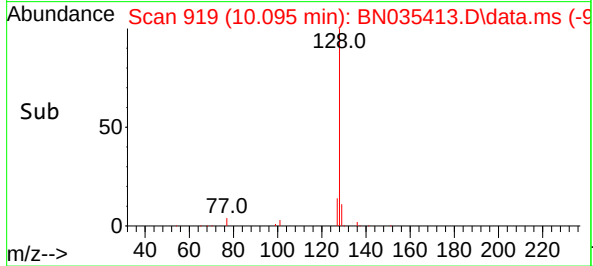
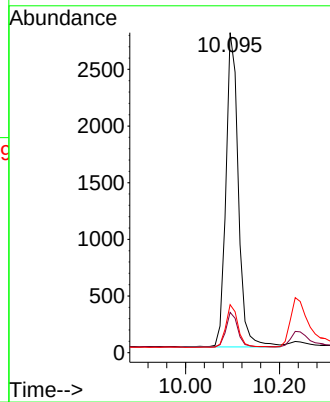
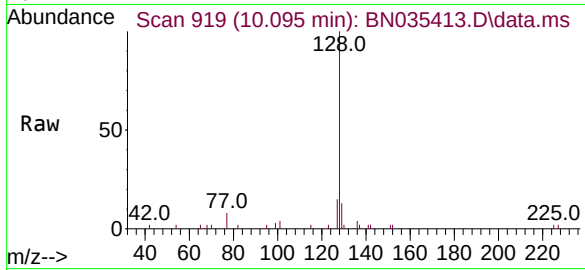




#9  
Naphthalene  
Concen: 0.400 ng  
RT: 10.095 min Scan# 919  
Delta R.T. -0.011 min  
Lab File: BN035413.D  
Acq: 03 Dec 2024 21:11

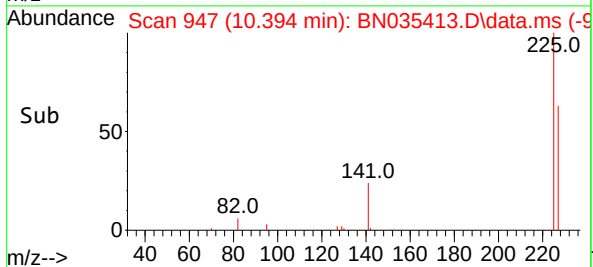
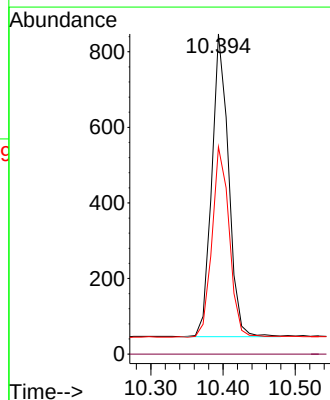
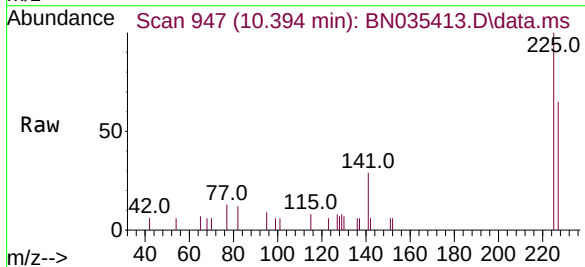
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

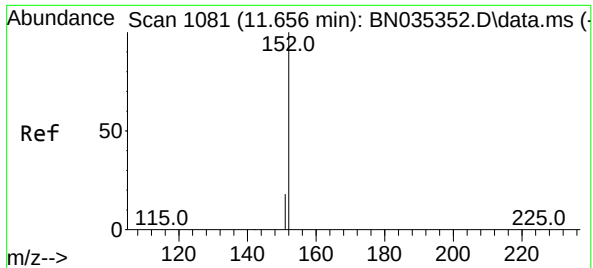
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 5107  |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 129      | 12.6  | 9.8   | 14.6  |
| 127      | 15.0  | 11.4  | 17.2  |



#10  
Hexachlorobutadiene  
Concen: 0.438 ng  
RT: 10.394 min Scan# 947  
Delta R.T. -0.011 min  
Lab File: BN035413.D  
Acq: 03 Dec 2024 21:11

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 225   | Resp: | 1291  |
| Ion      | Ratio | Lower | Upper |
| 225      | 100   |       |       |
| 223      | 0.0   | 0.0   | 0.0   |
| 227      | 64.3  | 51.3  | 76.9  |

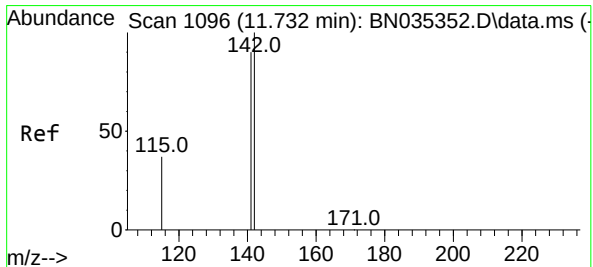
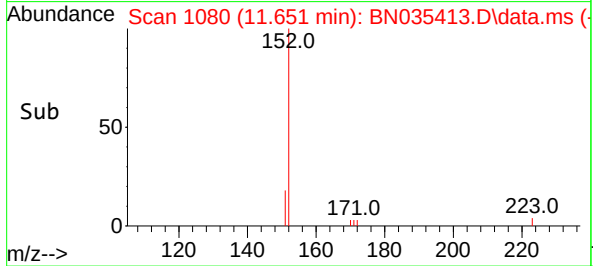
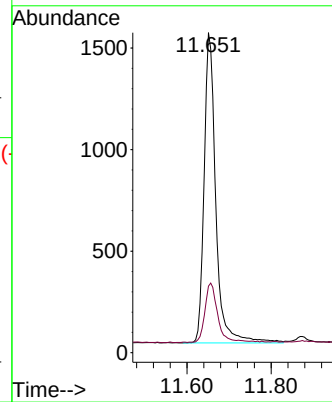
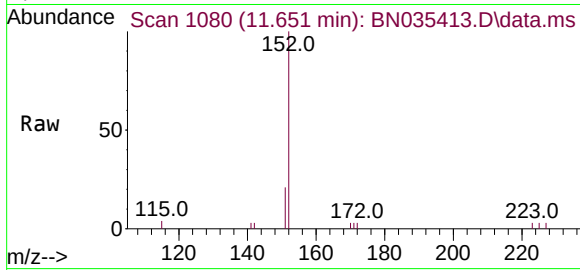




#11  
2-Methylnaphthalene-d10  
Concen: 0.389 ng  
RT: 11.651 min Scan# 1080  
Delta R.T. -0.005 min  
Lab File: BN035413.D  
Acq: 03 Dec 2024 21:11

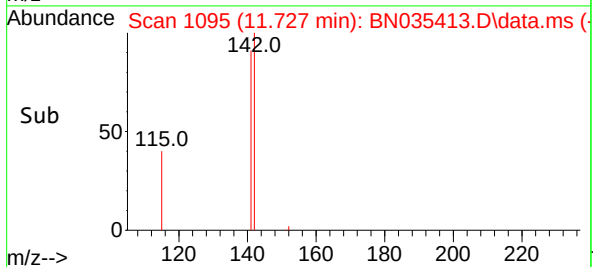
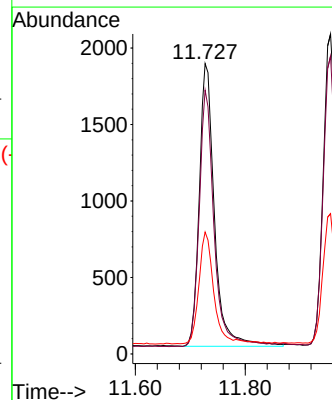
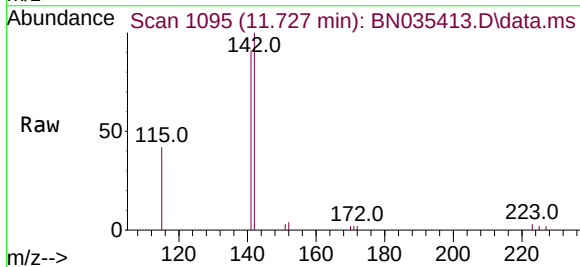
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

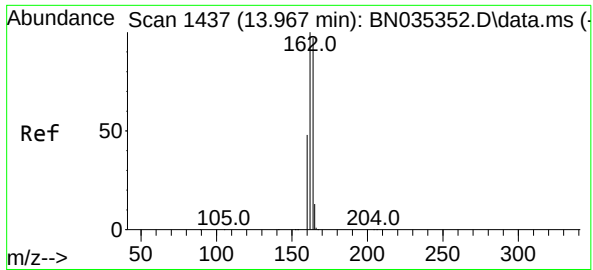
Tgt Ion:152 Resp: 2948  
Ion Ratio Lower Upper  
152 100  
151 20.7 16.6 25.0



#12  
2-Methylnaphthalene  
Concen: 0.389 ng  
RT: 11.727 min Scan# 1095  
Delta R.T. -0.005 min  
Lab File: BN035413.D  
Acq: 03 Dec 2024 21:11

Tgt Ion:142 Resp: 3555  
Ion Ratio Lower Upper  
142 100  
141 90.9 72.2 108.4  
115 42.0 31.4 47.0

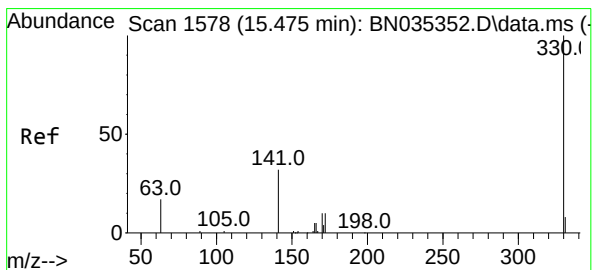
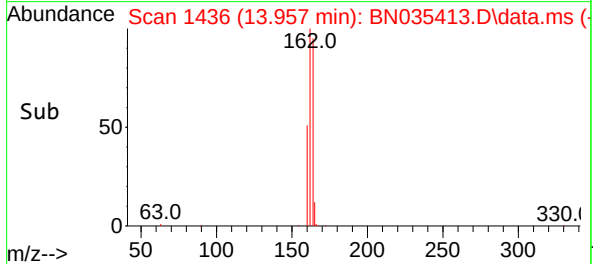
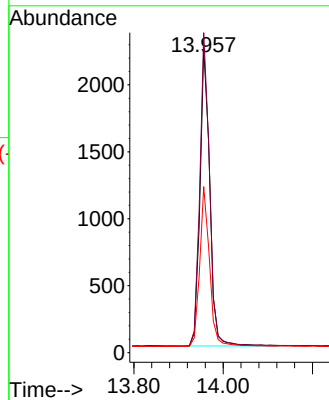
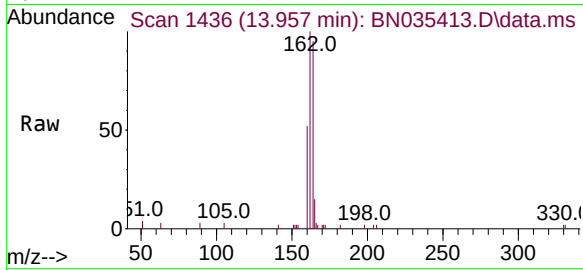




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.957 min Scan# 1437  
Delta R.T. -0.011 min  
Lab File: BN035413.D  
Acq: 03 Dec 2024 21:11

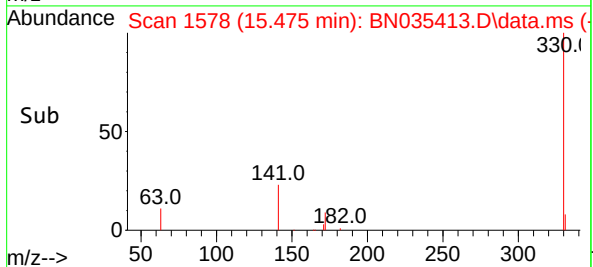
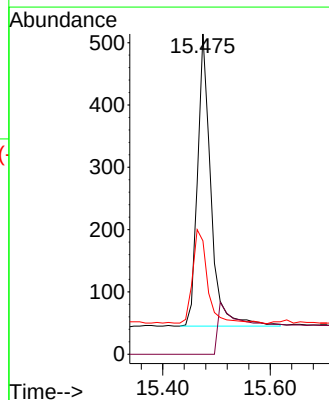
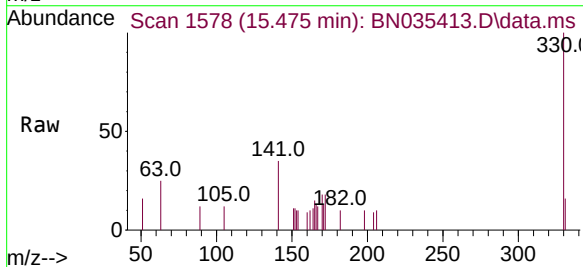
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

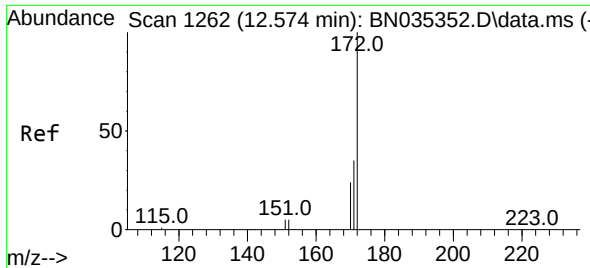
Tgt Ion:164 Resp: 3417  
Ion Ratio Lower Upper  
164 100  
162 105.1 82.2 123.2  
160 54.6 40.1 60.1



#14  
2,4,6-Tribromophenol  
Concen: 0.360 ng  
RT: 15.475 min Scan# 1578  
Delta R.T. 0.000 min  
Lab File: BN035413.D  
Acq: 03 Dec 2024 21:11

Tgt Ion:330 Resp: 874  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 35.7 26.6 40.0

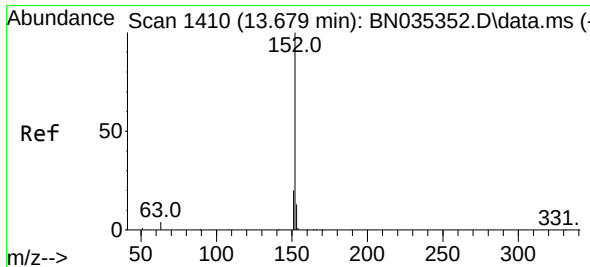
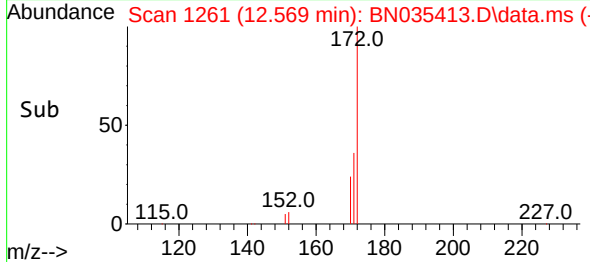
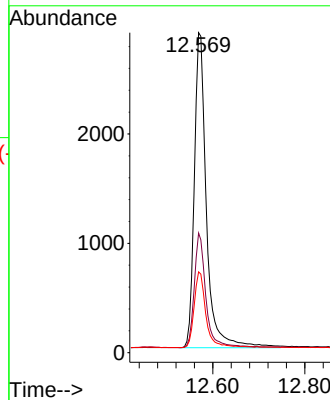
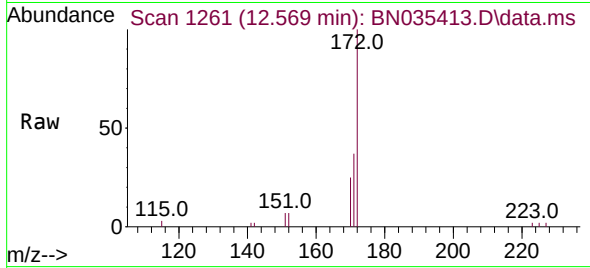




#15  
2-Fluorobiphenyl  
Concen: 0.409 ng  
RT: 12.569 min Scan# 11  
Delta R.T. -0.005 min  
Lab File: BN035413.D  
Acq: 03 Dec 2024 21:11

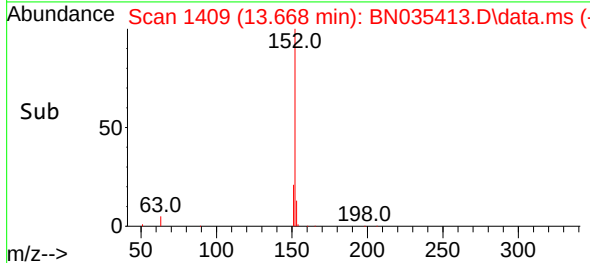
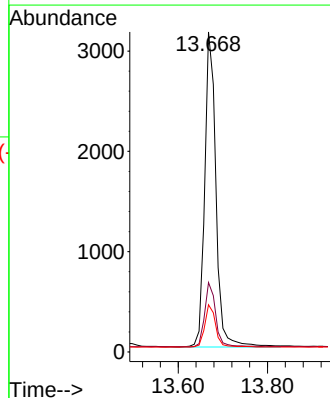
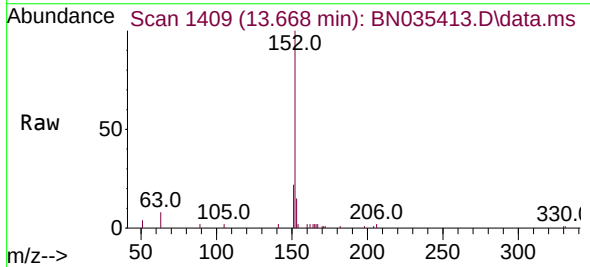
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

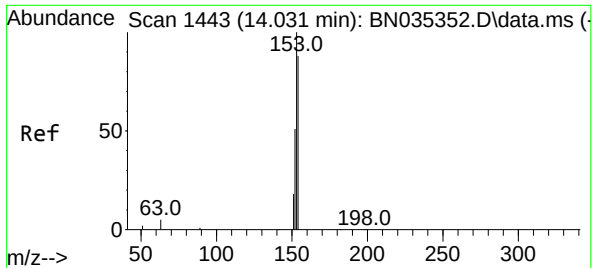
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 172   | Resp: | 5285 |
| Ion Ratio | Lower | Upper |      |
| 172       | 100   |       |      |
| 171       | 37.4  | 29.0  | 43.4 |
| 170       | 25.2  | 19.8  | 29.8 |



#16  
Acenaphthylene  
Concen: 0.381 ng  
RT: 13.668 min Scan# 1409  
Delta R.T. -0.011 min  
Lab File: BN035413.D  
Acq: 03 Dec 2024 21:11

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 152   | Resp: | 5470 |
| Ion Ratio | Lower | Upper |      |
| 152       | 100   |       |      |
| 151       | 19.8  | 16.2  | 24.2 |
| 153       | 13.2  | 10.4  | 15.6 |

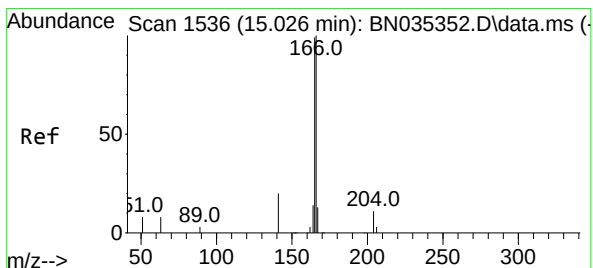
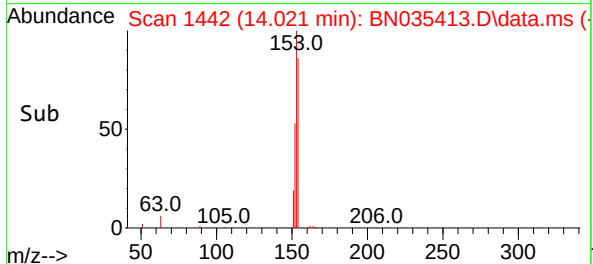
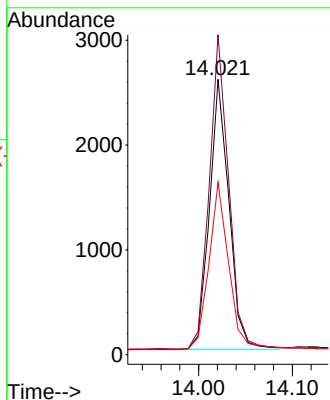
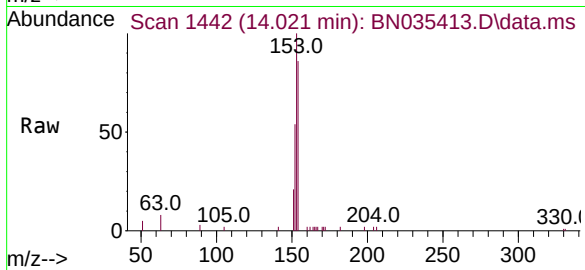




#17  
Acenaphthene  
Concen: 0.392 ng  
RT: 14.021 min Scan# 1442  
Delta R.T. -0.011 min  
Lab File: BN035413.D  
Acq: 03 Dec 2024 21:11

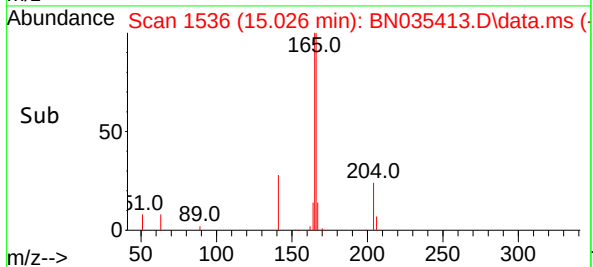
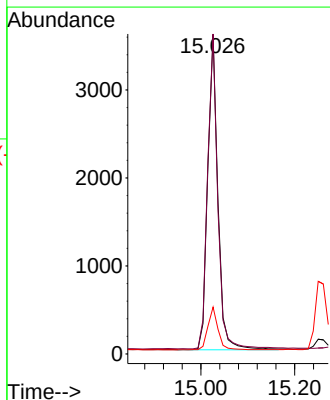
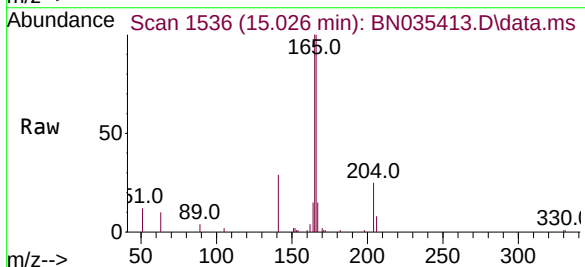
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

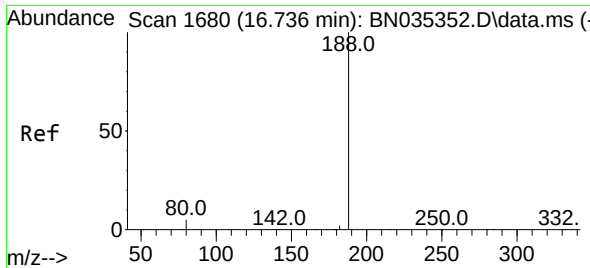
Tgt Ion:154 Resp: 3732  
Ion Ratio Lower Upper  
154 100  
153 117.7 92.6 139.0  
152 62.7 49.0 73.6



#18  
Fluorene  
Concen: 0.395 ng  
RT: 15.026 min Scan# 1536  
Delta R.T. 0.000 min  
Lab File: BN035413.D  
Acq: 03 Dec 2024 21:11

Tgt Ion:166 Resp: 5390  
Ion Ratio Lower Upper  
166 100  
165 99.3 79.7 119.5  
167 13.5 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: BN035413.D

Acq: 03 Dec 2024 21:11

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC

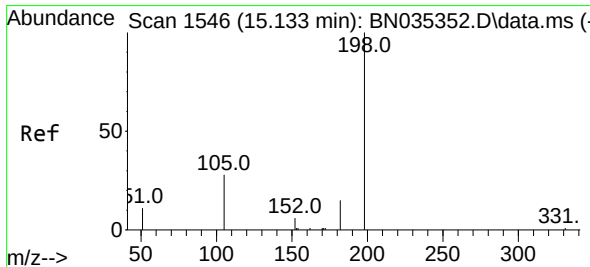
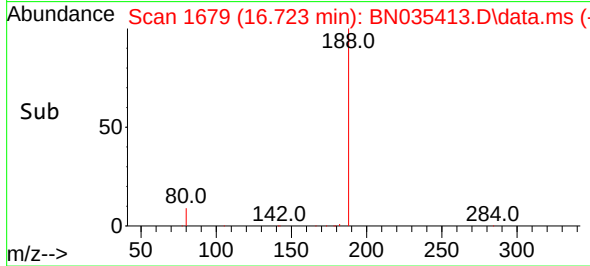
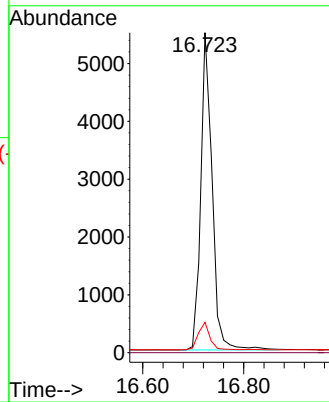
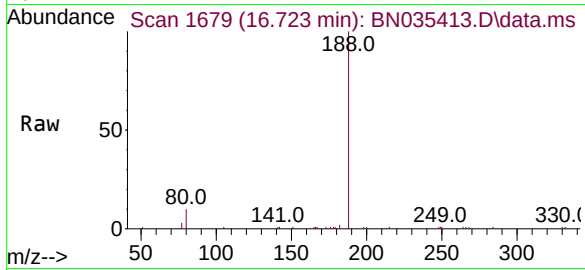
Tgt Ion:188 Resp: 8599

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.5 4.6 6.8#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.358 ng

RT: 15.133 min Scan# 1546

Delta R.T. -0.000 min

Lab File: BN035413.D

Acq: 03 Dec 2024 21:11

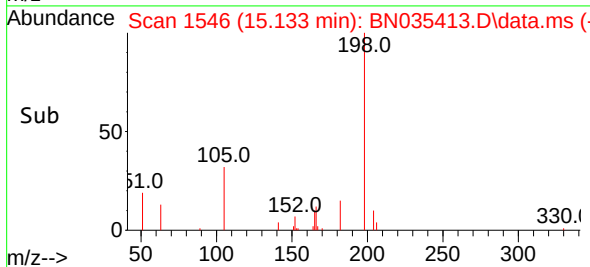
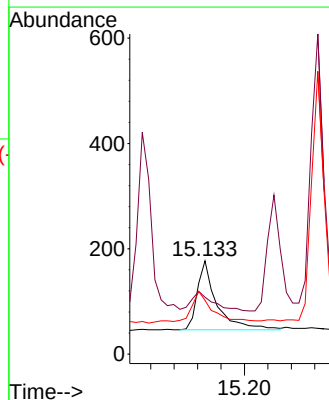
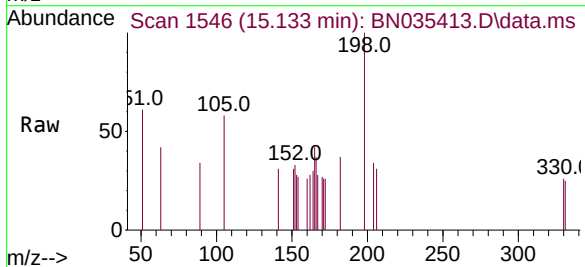
Tgt Ion:198 Resp: 303

Ion Ratio Lower Upper

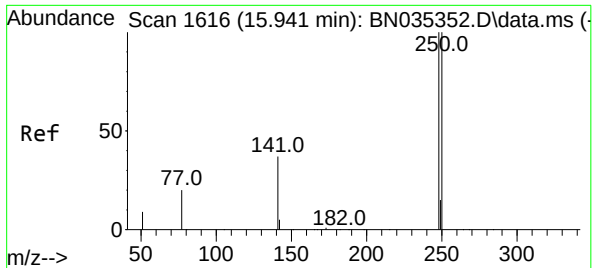
198 100

51 61.0 46.5 69.7

105 57.6 45.3 67.9



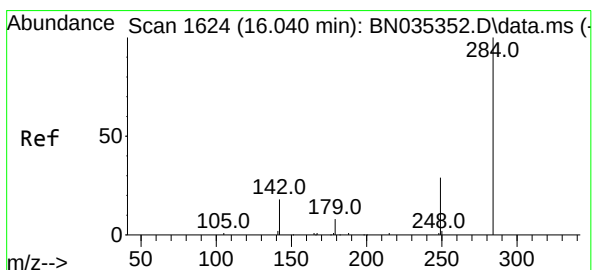
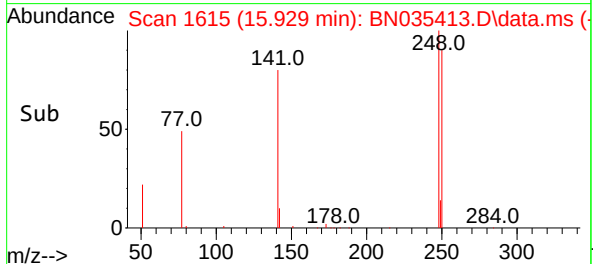
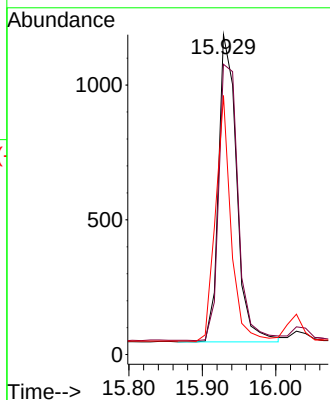
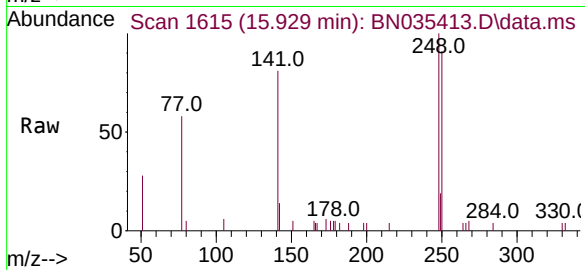




#21  
4-Bromophenyl-phenylether  
Concen: 0.388 ng  
RT: 15.929 min Scan# 1615  
Delta R.T. -0.012 min  
Lab File: BN035413.D  
Acq: 03 Dec 2024 21:11

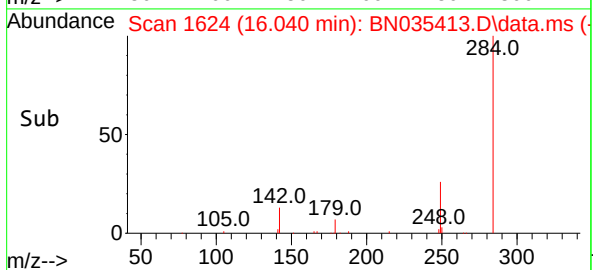
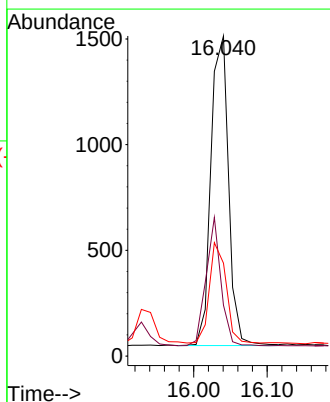
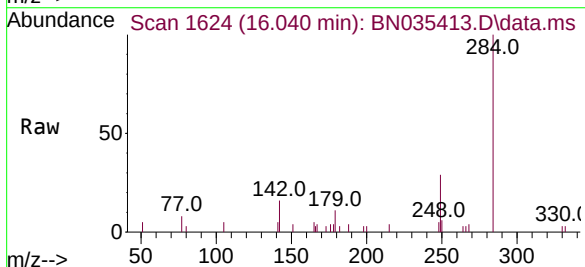
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

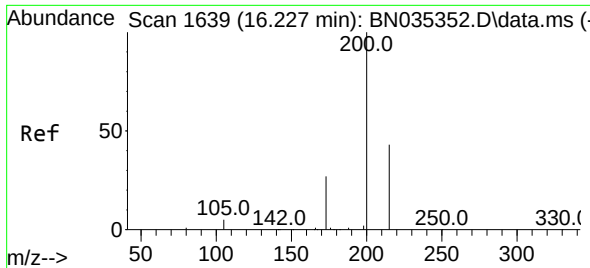
Tgt Ion:248 Resp: 1954  
Ion Ratio Lower Upper  
248 100  
250 90.7 80.6 120.8  
141 81.0 31.5 47.3#



#22  
Hexachlorobenzene  
Concen: 0.413 ng  
RT: 16.040 min Scan# 1624  
Delta R.T. 0.000 min  
Lab File: BN035413.D  
Acq: 03 Dec 2024 21:11

Tgt Ion:284 Resp: 2442  
Ion Ratio Lower Upper  
284 100  
142 35.5 26.7 40.1  
249 32.4 24.6 36.8

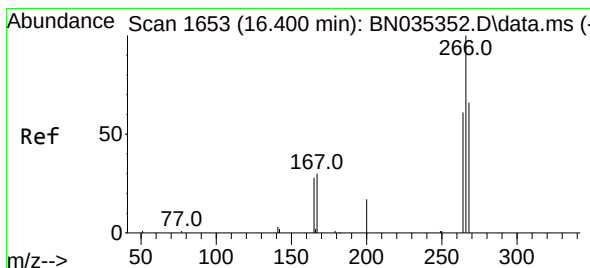
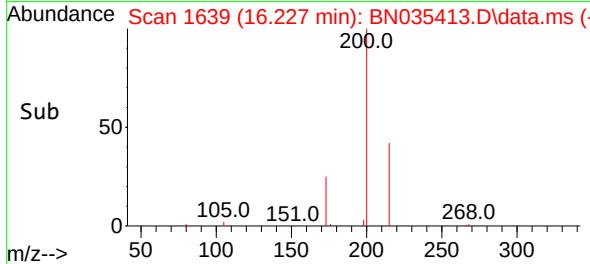
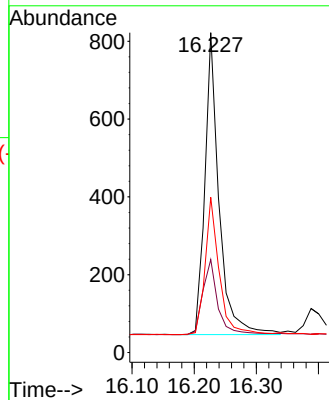
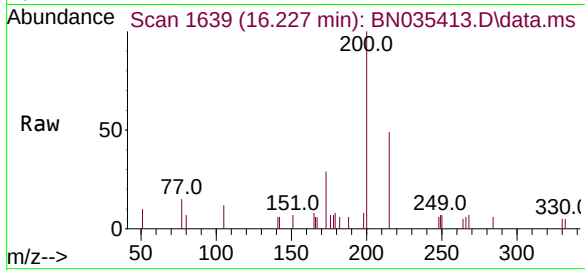




#23  
Atrazine  
Concen: 0.344 ng  
RT: 16.227 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: BN035413.D  
Acq: 03 Dec 2024 21:11

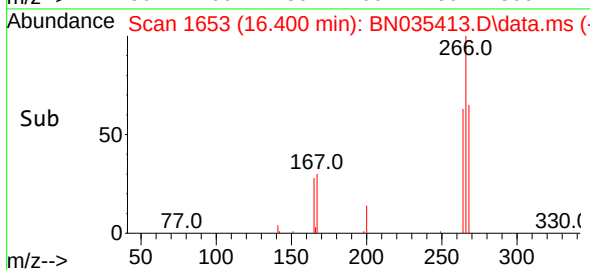
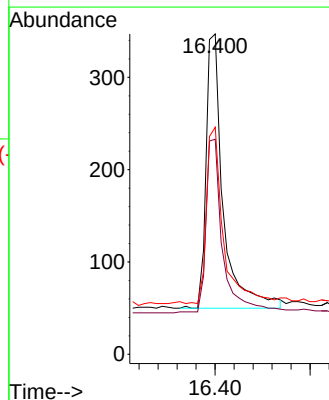
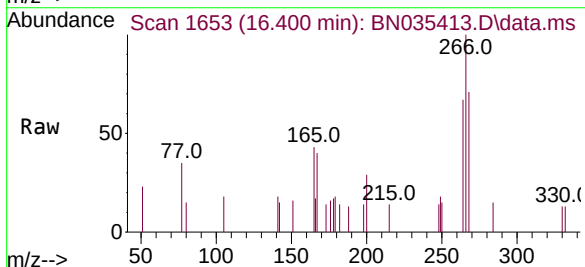
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

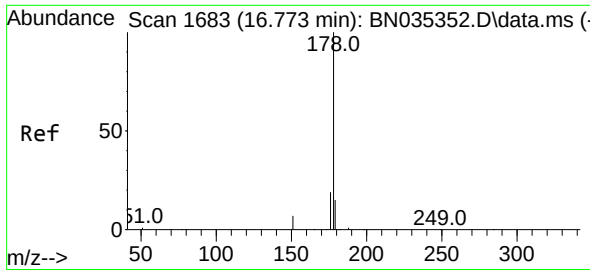
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 200   | Resp: | 1233 |
| Ion Ratio | Lower | Upper |      |
| 200       | 100   |       |      |
| 173       | 29.1  | 24.1  | 36.1 |
| 215       | 48.5  | 36.9  | 55.3 |



#24  
Pentachlorophenol  
Concen: 0.289 ng  
RT: 16.400 min Scan# 1653  
Delta R.T. 0.000 min  
Lab File: BN035413.D  
Acq: 03 Dec 2024 21:11

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 266   | Resp: | 742  |
| Ion Ratio | Lower | Upper |      |
| 266       | 100   |       |      |
| 264       | 62.0  | 42.3  | 63.5 |
| 268       | 63.5  | 43.3  | 64.9 |

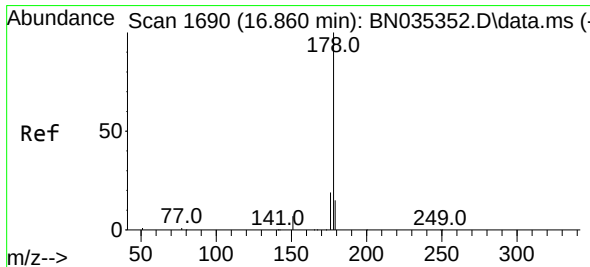
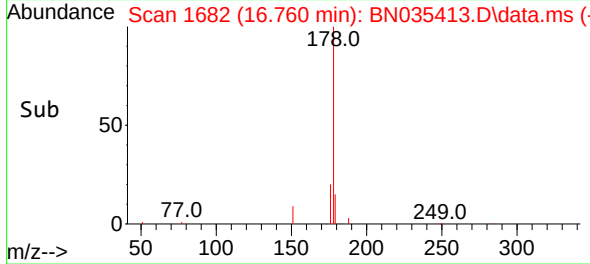
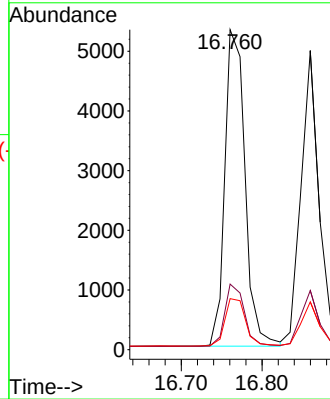
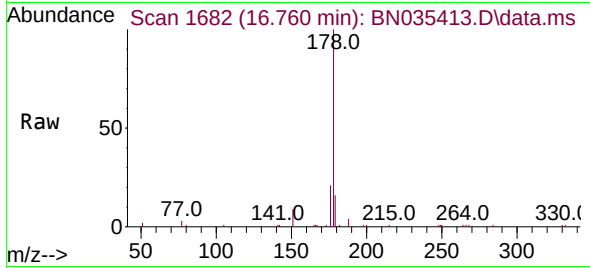




#25  
Phenanthrene  
Concen: 0.390 ng  
RT: 16.760 min Scan# 1682  
Delta R.T. -0.012 min  
Lab File: BN035413.D  
Acq: 03 Dec 2024 21:11

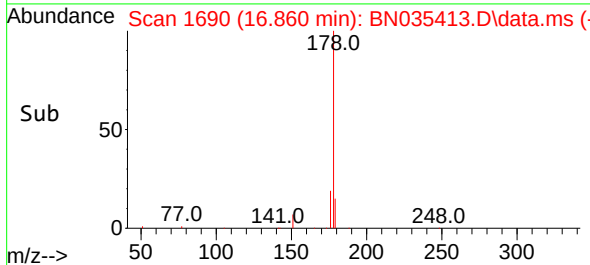
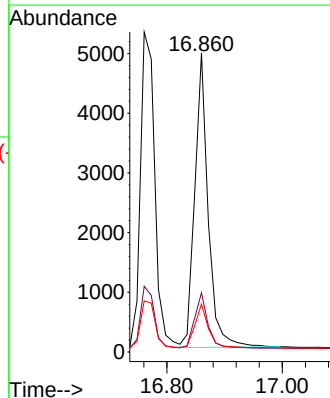
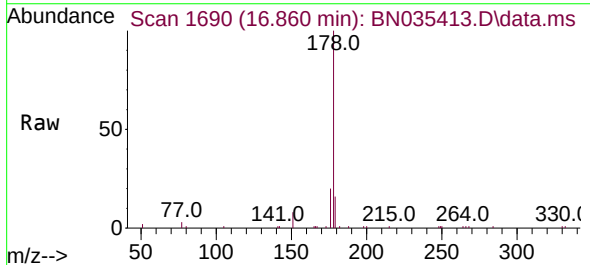
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

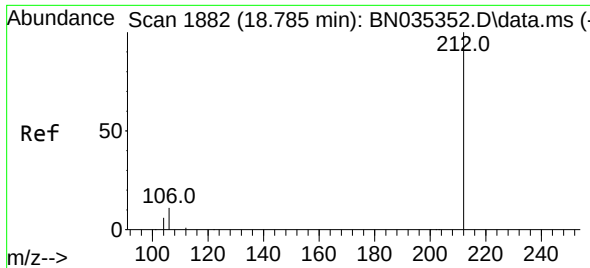
Tgt Ion:178 Resp: 9217  
Ion Ratio Lower Upper  
178 100  
176 19.1 15.4 23.2  
179 15.4 12.3 18.5



#26  
Anthracene  
Concen: 0.373 ng  
RT: 16.860 min Scan# 1690  
Delta R.T. 0.000 min  
Lab File: BN035413.D  
Acq: 03 Dec 2024 21:11

Tgt Ion:178 Resp: 7974  
Ion Ratio Lower Upper  
178 100  
176 18.8 15.0 22.6  
179 15.3 12.6 18.8





#27

Fluoranthene-d10

Concen: 0.361 ng

RT: 18.780 min Scan# 1881

Delta R.T. -0.005 min

Lab File: BN035413.D

Acq: 03 Dec 2024 21:11

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC

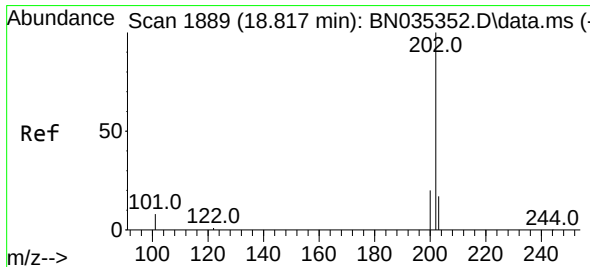
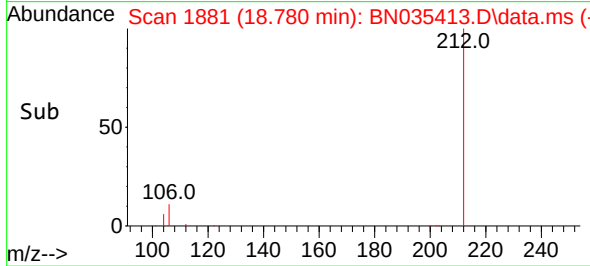
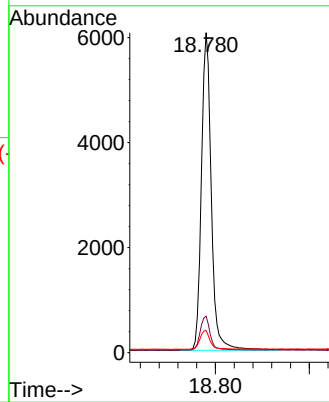
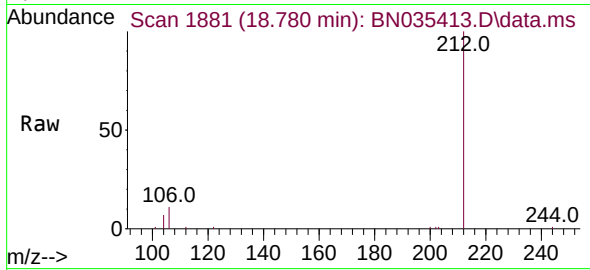
Tgt Ion:212 Resp: 8797

Ion Ratio Lower Upper

212 100

106 10.7 9.2 13.8

104 6.2 5.3 7.9



#28

Fluoranthene

Concen: 0.368 ng

RT: 18.812 min Scan# 1888

Delta R.T. -0.005 min

Lab File: BN035413.D

Acq: 03 Dec 2024 21:11

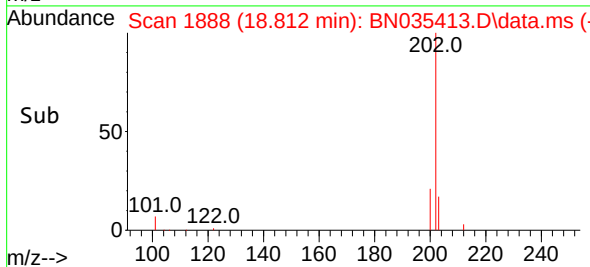
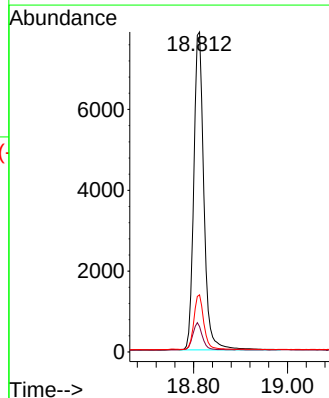
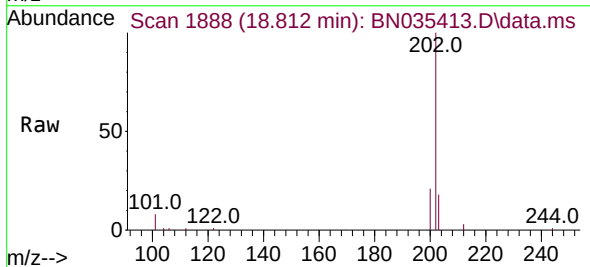
Tgt Ion:202 Resp: 11723

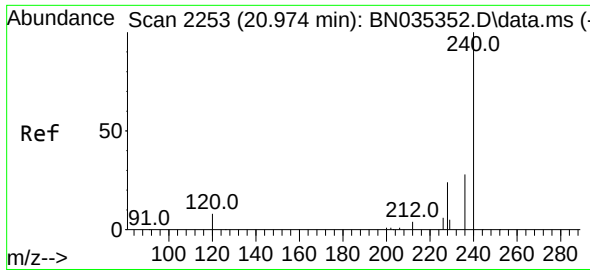
Ion Ratio Lower Upper

202 100

101 8.5 7.4 11.0

203 16.8 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.965 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035413.D

Acq: 03 Dec 2024 21:11

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC

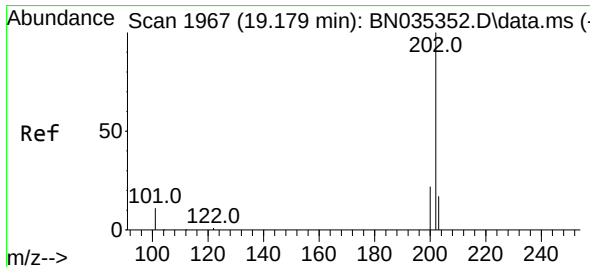
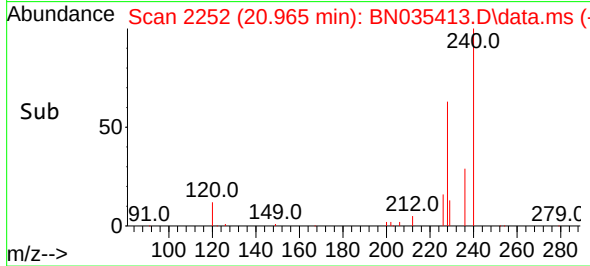
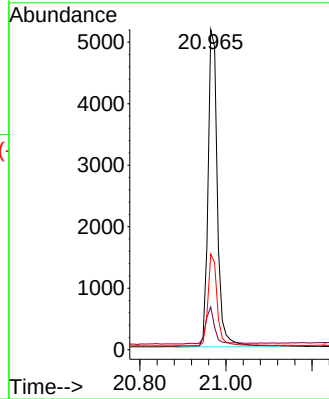
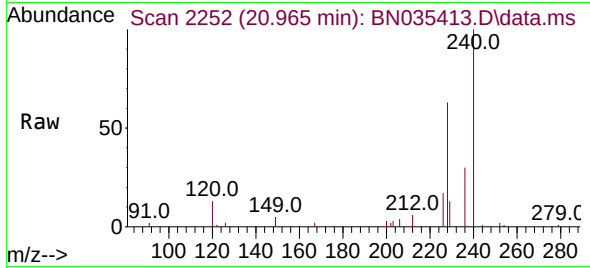
Tgt Ion:240 Resp: 7834

Ion Ratio Lower Upper

240 100

120 13.4 7.9 11.9#

236 29.9 22.9 34.3



#30

Pyrene

Concen: 0.410 ng

RT: 19.179 min Scan# 1967

Delta R.T. 0.000 min

Lab File: BN035413.D

Acq: 03 Dec 2024 21:11

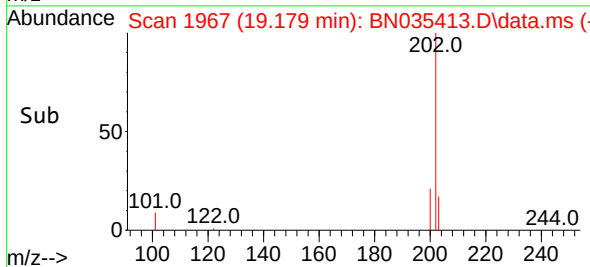
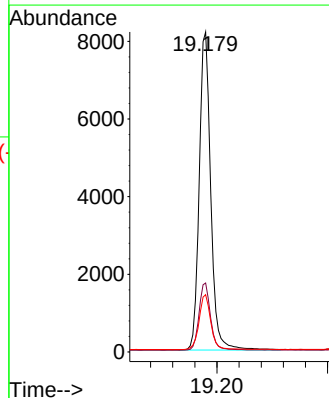
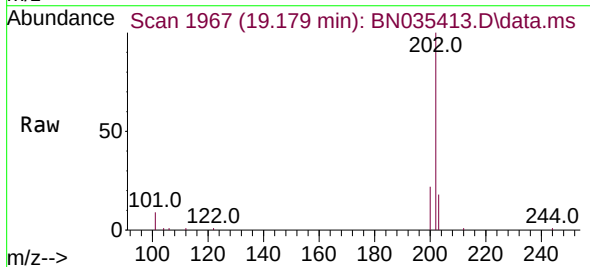
Tgt Ion:202 Resp: 11845

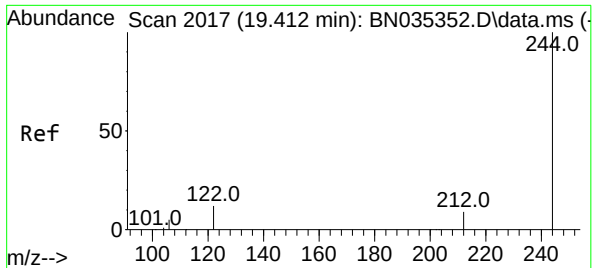
Ion Ratio Lower Upper

202 100

200 21.2 17.0 25.4

203 17.8 14.3 21.5

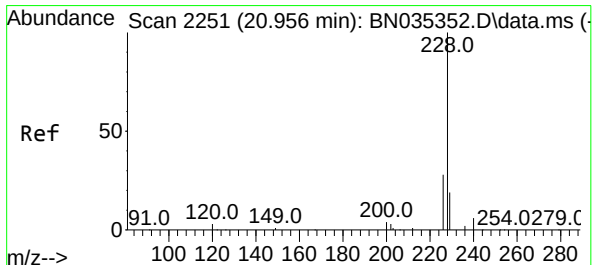
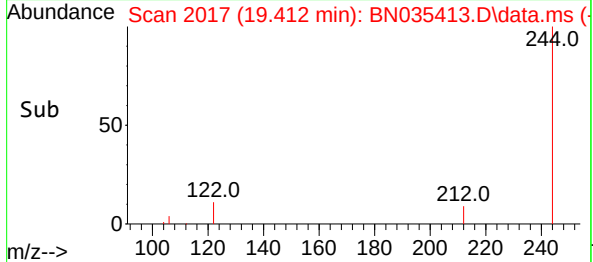
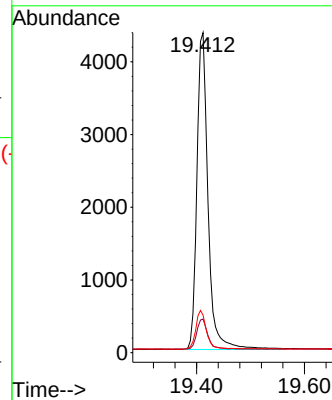
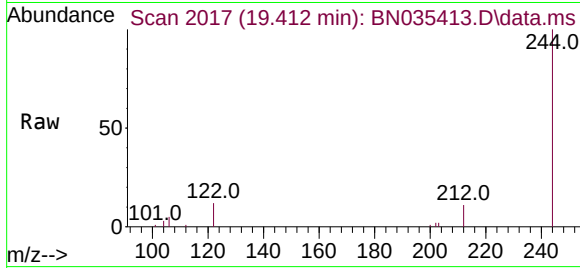




#31  
Terphenyl-d14  
Concen: 0.403 ng  
RT: 19.412 min Scan# 2017  
Delta R.T. 0.000 min  
Lab File: BN035413.D  
Acq: 03 Dec 2024 21:11

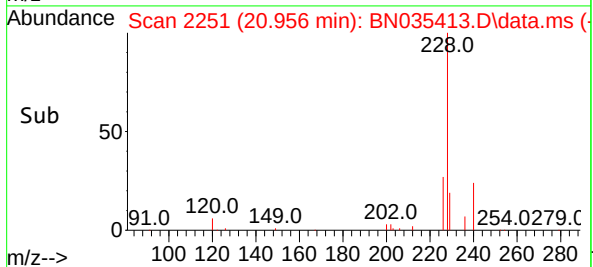
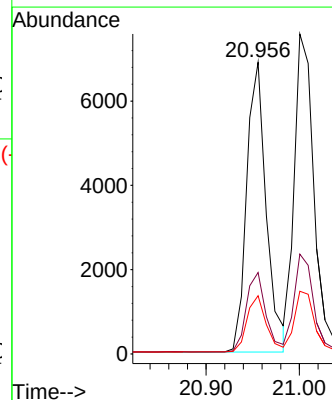
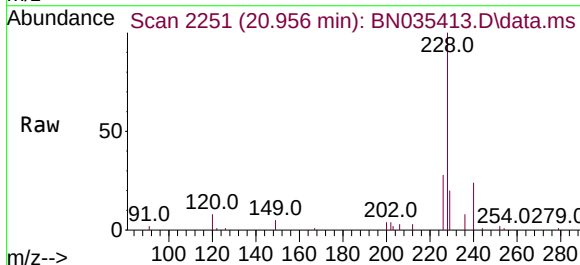
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

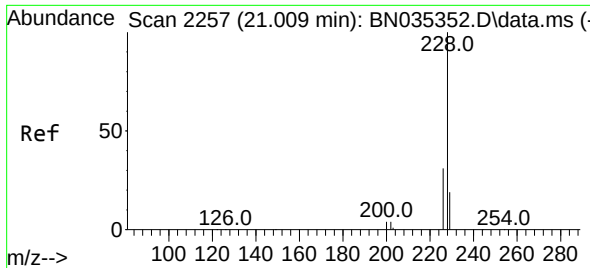
Tgt Ion:244 Resp: 6230  
Ion Ratio Lower Upper  
244 100  
212 10.5 8.1 12.1  
122 11.8 10.3 15.5



#32  
Benzo(a)anthracene  
Concen: 0.366 ng  
RT: 20.956 min Scan# 2251  
Delta R.T. 0.000 min  
Lab File: BN035413.D  
Acq: 03 Dec 2024 21:11

Tgt Ion:228 Resp: 10025  
Ion Ratio Lower Upper  
228 100  
226 27.9 22.5 33.7  
229 19.9 15.8 23.8

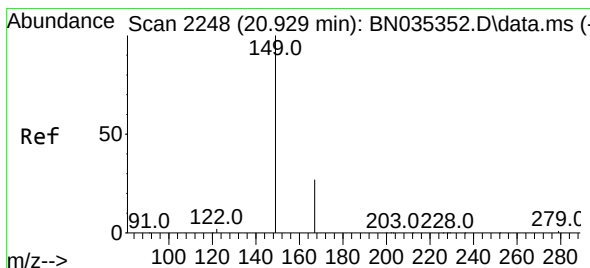
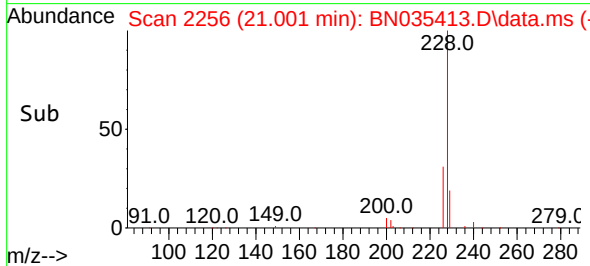
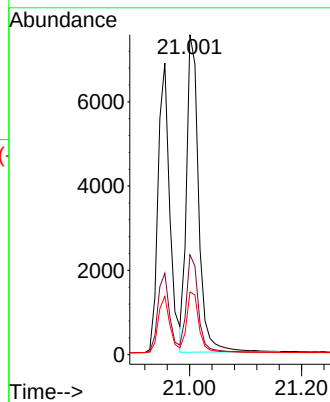
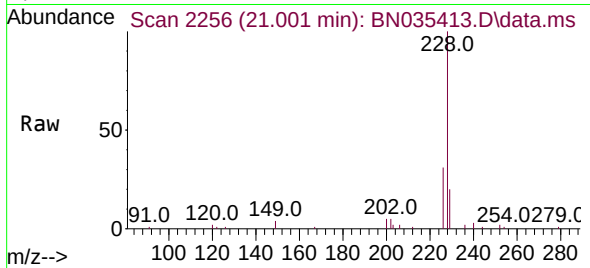




#33  
Chrysene  
Concen: 0.401 ng  
RT: 21.001 min Scan# 21  
Delta R.T. -0.009 min  
Lab File: BN035413.D  
Acq: 03 Dec 2024 21:11

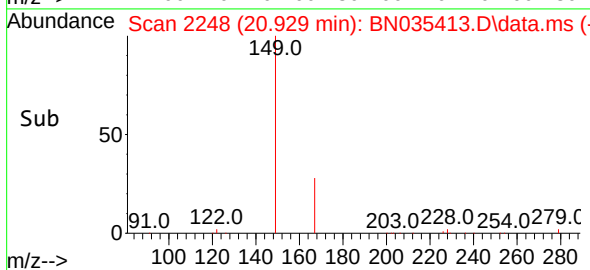
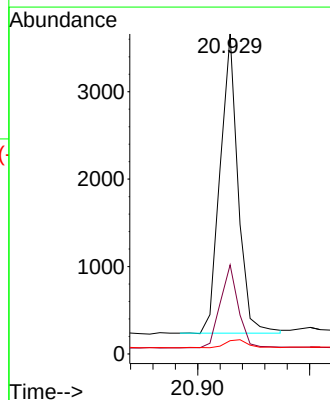
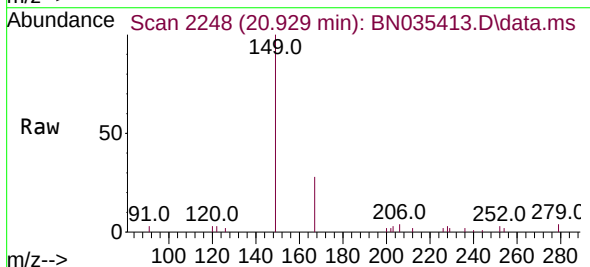
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

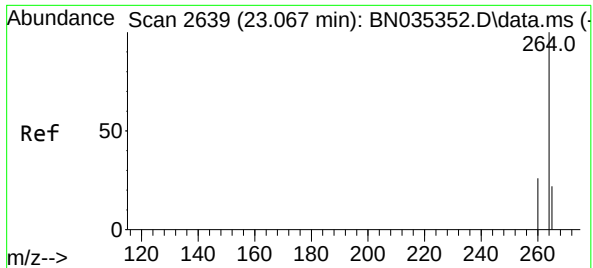
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 31.2  | 24.6  | 37.0  |
| 229     | 19.6  | 15.9  | 23.9  |



#34  
Bis(2-ethylhexyl)phthalate  
Concen: 0.352 ng  
RT: 20.929 min Scan# 2248  
Delta R.T. 0.000 min  
Lab File: BN035413.D  
Acq: 03 Dec 2024 21:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 28.4  | 22.2  | 33.4  |
| 279     | 3.3   | 2.7   | 4.1   |

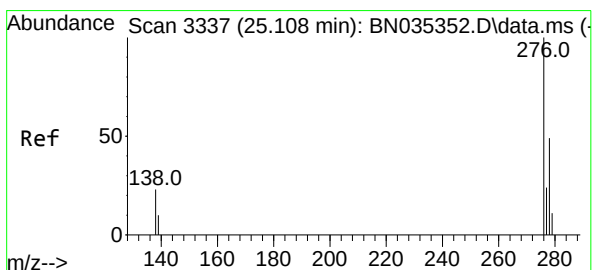
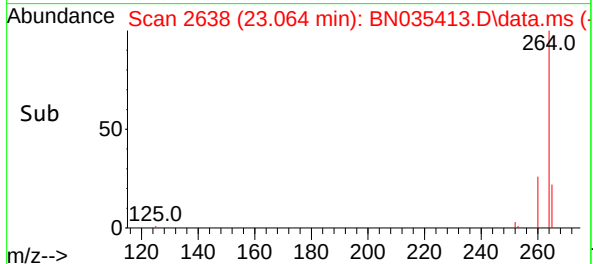
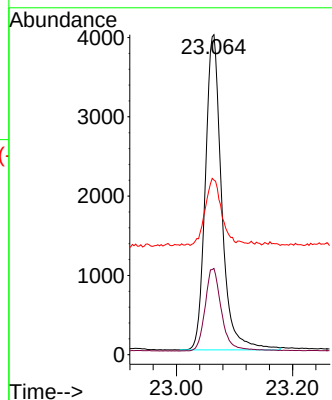
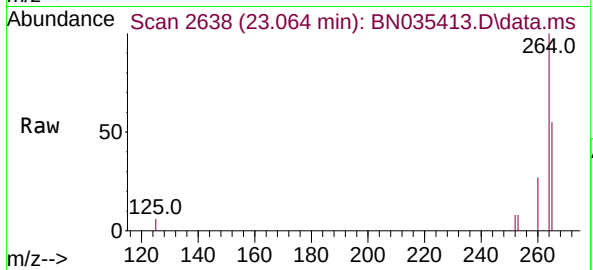




#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.064 min Scan# 21  
Delta R.T. -0.003 min  
Lab File: BN035413.D  
Acq: 03 Dec 2024 21:11

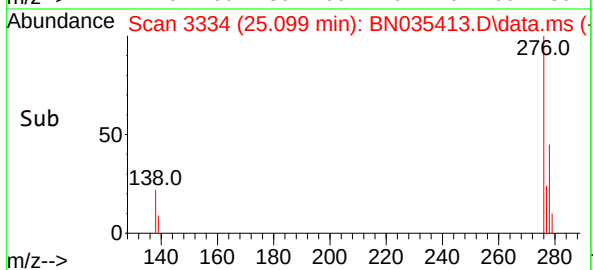
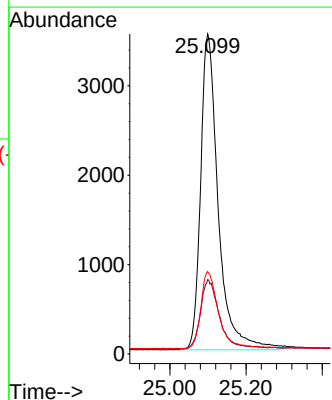
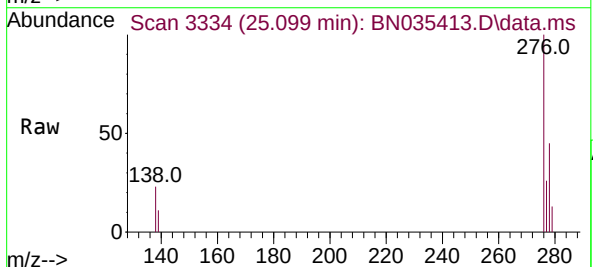
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

Tgt Ion:264 Resp: 7769  
Ion Ratio Lower Upper  
264 100  
260 27.0 21.4 32.2  
265 54.5 40.2 60.4

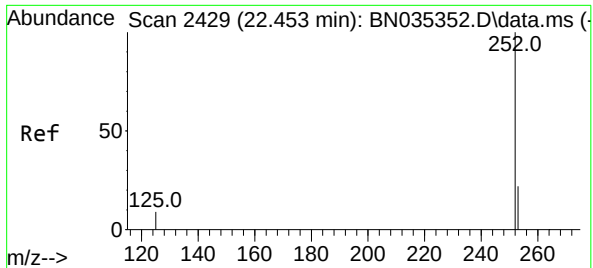


#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.374 ng  
RT: 25.099 min Scan# 3334  
Delta R.T. -0.009 min  
Lab File: BN035413.D  
Acq: 03 Dec 2024 21:11

Tgt Ion:276 Resp: 11352  
Ion Ratio Lower Upper  
276 100  
138 22.8 19.4 29.0  
277 24.4 19.8 29.6







#37

Benzo(b)fluoranthene

Concen: 0.456 ng

RT: 22.448 min Scan# 241

Delta R.T. -0.006 min

Lab File: BN035413.D

Acq: 03 Dec 2024 21:11

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC

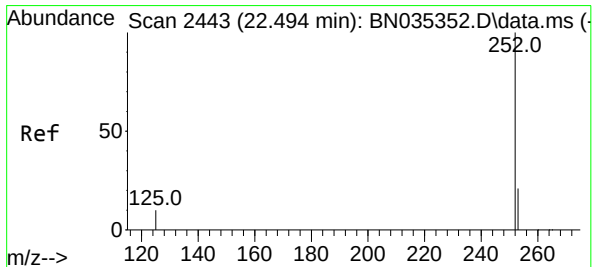
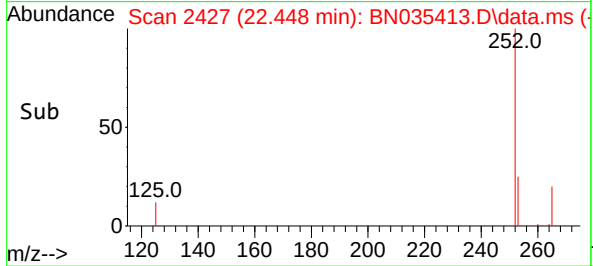
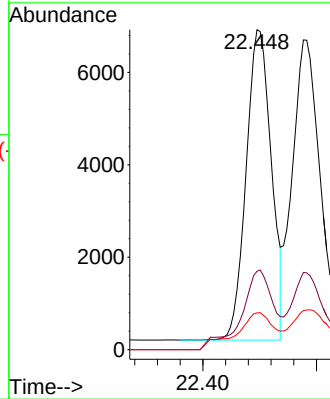
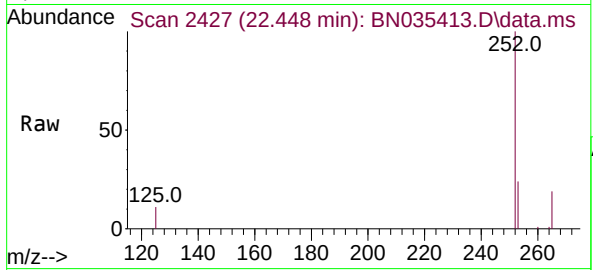
Tgt Ion:252 Resp: 12967

Ion Ratio Lower Upper

252 100

253 24.5 19.6 29.4

125 11.5 9.6 14.4



#38

Benzo(k)fluoranthene

Concen: 0.407 ng

RT: 22.488 min Scan# 2441

Delta R.T. -0.006 min

Lab File: BN035413.D

Acq: 03 Dec 2024 21:11

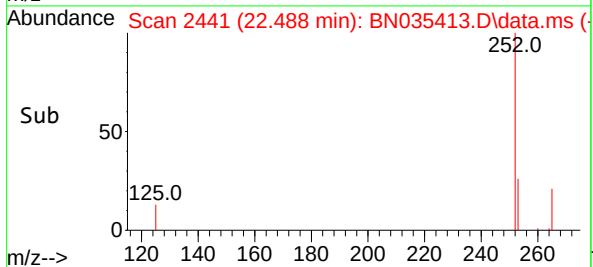
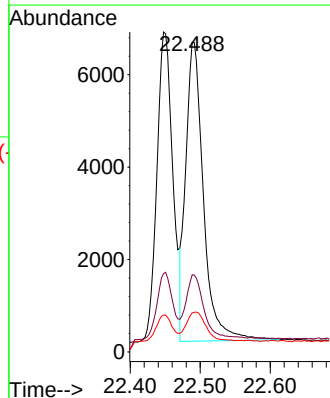
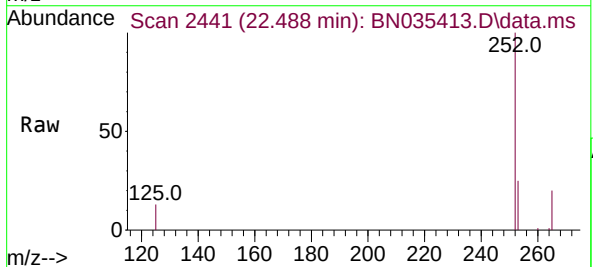
Tgt Ion:252 Resp: 11373

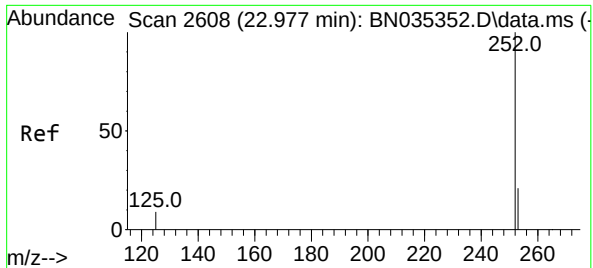
Ion Ratio Lower Upper

252 100

253 24.9 19.5 29.3

125 12.6 10.2 15.4





#39

Benzo(a)pyrene

Concen: 0.363 ng

RT: 22.974 min Scan# 2

Delta R.T. -0.003 min

Lab File: BN035413.D

Acq: 03 Dec 2024 21:11

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC

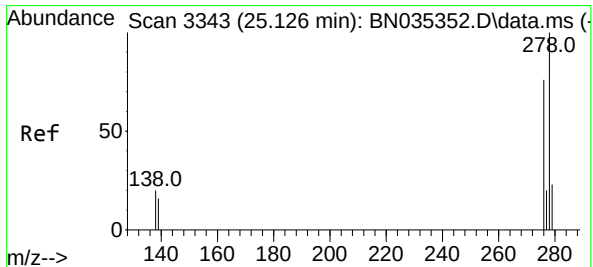
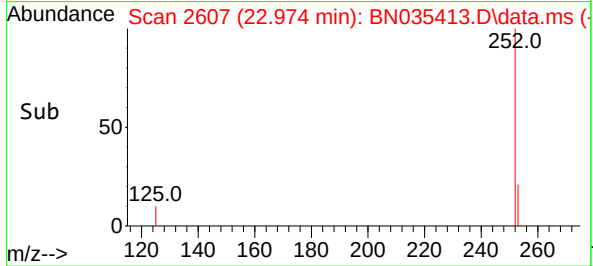
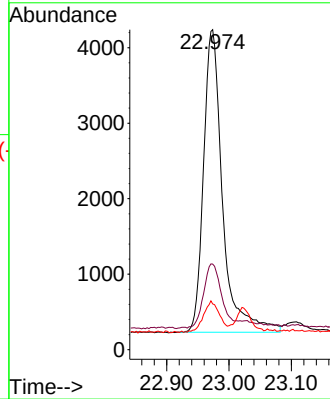
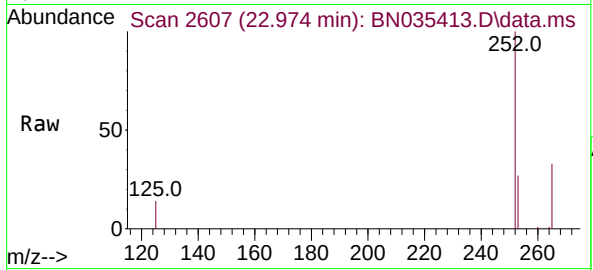
Tgt Ion:252 Resp: 8498

Ion Ratio Lower Upper

252 100

253 26.8 20.2 30.4

125 14.3 10.9 16.3



#40

Dibenzo(a,h)anthracene

Concen: 0.362 ng

RT: 25.120 min Scan# 3341

Delta R.T. -0.006 min

Lab File: BN035413.D

Acq: 03 Dec 2024 21:11

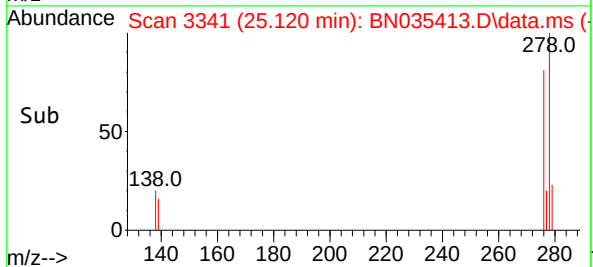
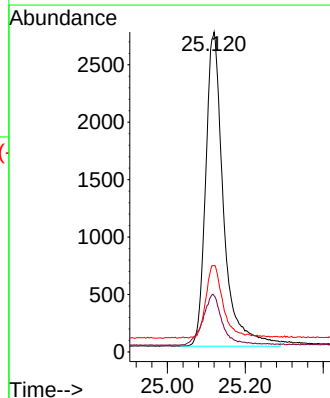
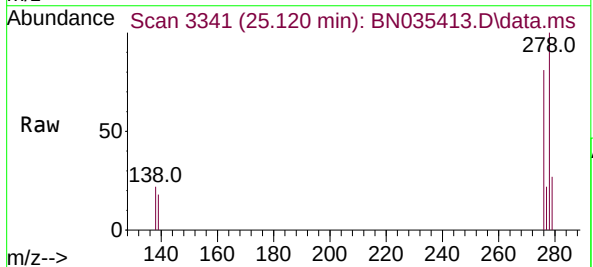
Tgt Ion:278 Resp: 8673

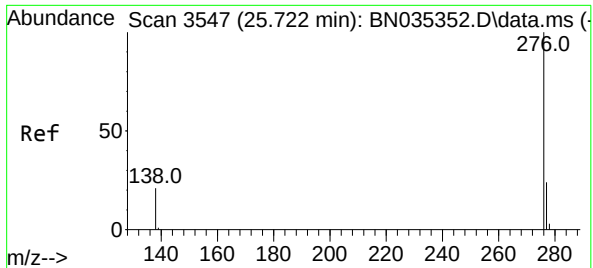
Ion Ratio Lower Upper

278 100

139 17.5 14.2 21.4

279 27.1 20.5 30.7





#41

Benzo(g,h,i)perylene

Concen: 0.368 ng

RT: 25.716 min Scan# 31

Delta R.T. -0.006 min

Lab File: BN035413.D

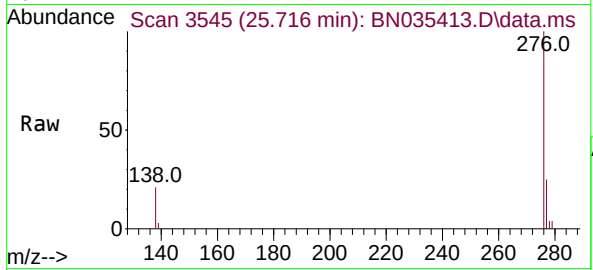
Acq: 03 Dec 2024 21:11

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC



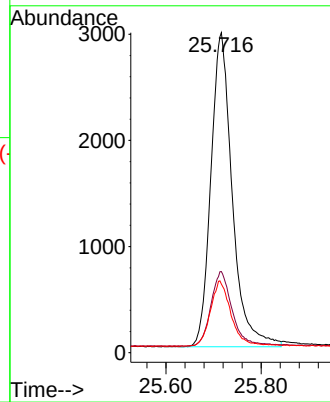
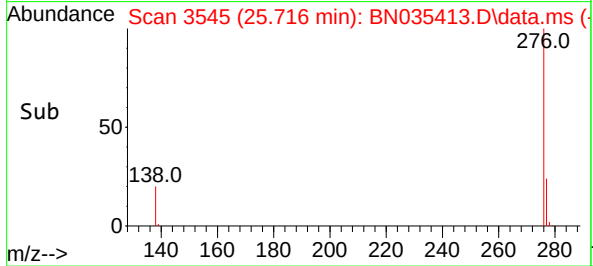
Tgt Ion:276 Resp: 9224

Ion Ratio Lower Upper

276 100

277 25.4 19.9 29.9

138 21.5 17.8 26.8



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN120424\  
Data File : BN035413.D  
Acq On : 03 Dec 2024 21:11  
Operator : RC/JU  
Sample : SSTDCCC0.4  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_N  
LabSampleId :  
SSTDCCC0.4

Quant Time: Dec 03 22:06:25 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   | 93    | 0.00     |
| 2       | 1,4-Dioxane                | 0.382 | 0.384 | -0.5  | 95    | 0.00     |
| 3       | n-Nitrosodimethylamine     | 0.319 | 0.294 | 7.8   | 84    | 0.00     |
| 4 S     | 2-Fluorophenol             | 1.001 | 0.907 | 9.4   | 83    | 0.00     |
| 5 S     | Phenol-d6                  | 1.204 | 1.095 | 9.1   | 85    | 0.00     |
| 6       | bis(2-Chloroethyl)ether    | 1.012 | 0.951 | 6.0   | 89    | 0.00     |
| 7 I     | Naphthalene-d8             | 1.000 | 1.000 | 0.0   | 93    | 0.00     |
| 8 S     | Nitrobenzene-d5            | 0.244 | 0.240 | 1.6   | 95    | 0.00     |
| 9       | Naphthalene                | 1.055 | 1.055 | 0.0   | 93    | -0.01    |
| 10      | Hexachlorobutadiene        | 0.243 | 0.267 | -9.9  | 100   | -0.01    |
| 11 SURR | 2-Methylnaphthalene-d10    | 0.626 | 0.609 | 2.7   | 91    | 0.00     |
| 12      | 2-Methylnaphthalene        | 0.755 | 0.734 | 2.8   | 92    | 0.00     |
| 13 I    | Acenaphthene-d10           | 1.000 | 1.000 | 0.0   | 90    | -0.01    |
| 14 S    | 2,4,6-Tribromophenol       | 0.284 | 0.256 | 9.9   | 90    | 0.00     |
| 15 S    | 2-Fluorobiphenyl           | 1.512 | 1.547 | -2.3  | 92    | 0.00     |
| 16      | Acenaphthylene             | 1.680 | 1.601 | 4.7   | 90    | -0.01    |
| 17      | Acenaphthene               | 1.115 | 1.092 | 2.1   | 90    | -0.01    |
| 18      | Fluorene                   | 1.596 | 1.577 | 1.2   | 92    | 0.00     |
| 19 I    | Phenanthrene-d10           | 1.000 | 1.000 | 0.0   | 91    | -0.01    |
| 20      | 4,6-Dinitro-2-methylphenol | 0.039 | 0.035 | 10.3  | 90    | 0.00     |
| 21      | 4-Bromophenyl-phenylether  | 0.234 | 0.227 | 3.0   | 91    | -0.01    |
| 22      | Hexachlorobenzene          | 0.275 | 0.284 | -3.3  | 94    | 0.00     |
| 23      | Atrazine                   | 0.167 | 0.143 | 14.4  | 84    | 0.00     |
| 24      | Pentachlorophenol          | 0.120 | 0.086 | 28.3# | 82    | 0.00     |
| 25      | Phenanthrene               | 1.099 | 1.072 | 2.5   | 91    | -0.01    |
| 26      | Anthracene                 | 0.994 | 0.927 | 6.7   | 89    | 0.00     |
| 27 SURR | Fluoranthene-d10           | 1.134 | 1.023 | 9.8   | 86    | 0.00     |
| 28      | Fluoranthene               | 1.481 | 1.363 | 8.0   | 87    | 0.00     |
| 29 I    | Chrysene-d12               | 1.000 | 1.000 | 0.0   | 82    | 0.00     |
| 30      | Pyrene                     | 1.477 | 1.512 | -2.4  | 84    | 0.00     |
| 31 S    | Terphenyl-d14              | 0.789 | 0.795 | -0.8  | 83    | 0.00     |
| 32      | Benzo(a)anthracene         | 1.399 | 1.280 | 8.5   | 78    | 0.00     |
| 33      | Chrysene                   | 1.443 | 1.445 | -0.1  | 82    | 0.00     |
| 34      | Bis(2-ethylhexyl)phthalate | 0.553 | 0.486 | 12.1  | 78    | 0.00     |
| 35 I    | Perylene-d12               | 1.000 | 1.000 | 0.0   | 72    | 0.00     |
| 36      | Indeno(1,2,3-cd)pyrene     | 1.564 | 1.461 | 6.6   | 68    | 0.00     |
| 37      | Benzo(b)fluoranthene       | 1.463 | 1.669 | -14.1 | 91    | 0.00     |
| 38      | Benzo(k)fluoranthene       | 1.440 | 1.464 | -1.7  | 75    | 0.00     |
| 39 C    | Benzo(a)pyrene             | 1.205 | 1.094 | 9.2   | 68    | 0.00     |
| 40      | Dibenzo(a,h)anthracene     | 1.234 | 1.116 | 9.6   | 67    | 0.00     |
| 41      | Benzo(g,h,i)perylene       | 1.289 | 1.187 | 7.9   | 68    | 0.00     |

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN120424\  
Data File : BN035413.D  
Acq On : 03 Dec 2024 21:11  
Operator : RC/JU  
Sample : SSTDCCC0.4  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_N  
LabSampleId :  
SSTDCCC0.4

Quant Time: Dec 03 22:06:25 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   | 93    | 0.00     |
| 2       | 1,4-Dioxane                | 0.400  | 0.401 | -0.3  | 95    | 0.00     |
| 3       | n-Nitrosodimethylamine     | 0.400  | 0.370 | 7.5   | 84    | 0.00     |
| 4 S     | 2-Fluorophenol             | 0.400  | 0.362 | 9.5   | 83    | 0.00     |
| 5 S     | Phenol-d6                  | 0.400  | 0.364 | 9.0   | 85    | 0.00     |
| 6       | bis(2-Chloroethyl)ether    | 0.400  | 0.376 | 6.0   | 89    | 0.00     |
| 7 I     | Naphthalene-d8             | 0.400  | 0.400 | 0.0   | 93    | 0.00     |
| 8 S     | Nitrobenzene-d5            | 0.400  | 0.393 | 1.8   | 95    | 0.00     |
| 9       | Naphthalene                | 0.400  | 0.400 | 0.0   | 93    | -0.01    |
| 10      | Hexachlorobutadiene        | 0.400  | 0.438 | -9.5  | 100   | -0.01    |
| 11 SURR | 2-Methylnaphthalene-d10    | 0.400  | 0.389 | 2.8   | 91    | 0.00     |
| 12      | 2-Methylnaphthalene        | 0.400  | 0.389 | 2.8   | 92    | 0.00     |
| 13 I    | Acenaphthene-d10           | 0.400  | 0.400 | 0.0   | 90    | -0.01    |
| 14 S    | 2,4,6-Tribromophenol       | 0.400  | 0.360 | 10.0  | 90    | 0.00     |
| 15 S    | 2-Fluorobiphenyl           | 0.400  | 0.409 | -2.2  | 92    | 0.00     |
| 16      | Acenaphthylene             | 0.400  | 0.381 | 4.8   | 90    | -0.01    |
| 17      | Acenaphthene               | 0.400  | 0.392 | 2.0   | 90    | -0.01    |
| 18      | Fluorene                   | 0.400  | 0.395 | 1.3   | 92    | 0.00     |
| 19 I    | Phenanthrene-d10           | 0.400  | 0.400 | 0.0   | 91    | -0.01    |
| 20      | 4,6-Dinitro-2-methylphenol | 0.400  | 0.358 | 10.5  | 90    | 0.00     |
| 21      | 4-Bromophenyl-phenylether  | 0.400  | 0.388 | 3.0   | 91    | -0.01    |
| 22      | Hexachlorobenzene          | 0.400  | 0.413 | -3.2  | 94    | 0.00     |
| 23      | Atrazine                   | 0.400  | 0.344 | 14.0  | 84    | 0.00     |
| 24      | Pentachlorophenol          | 0.400  | 0.289 | 27.8# | 82    | 0.00     |
| 25      | Phenanthrene               | 0.400  | 0.390 | 2.5   | 91    | -0.01    |
| 26      | Anthracene                 | 0.400  | 0.373 | 6.8   | 89    | 0.00     |
| 27 SURR | Fluoranthene-d10           | 0.400  | 0.361 | 9.8   | 86    | 0.00     |
| 28      | Fluoranthene               | 0.400  | 0.368 | 8.0   | 87    | 0.00     |
| 29 I    | Chrysene-d12               | 0.400  | 0.400 | 0.0   | 82    | 0.00     |
| 30      | Pyrene                     | 0.400  | 0.410 | -2.5  | 84    | 0.00     |
| 31 S    | Terphenyl-d14              | 0.400  | 0.403 | -0.8  | 83    | 0.00     |
| 32      | Benzo(a)anthracene         | 0.400  | 0.366 | 8.5   | 78    | 0.00     |
| 33      | Chrysene                   | 0.400  | 0.401 | -0.3  | 82    | 0.00     |
| 34      | Bis(2-ethylhexyl)phthalate | 0.400  | 0.352 | 12.0  | 78    | 0.00     |
| 35 I    | Perylene-d12               | 0.400  | 0.400 | 0.0   | 72    | 0.00     |
| 36      | Indeno(1,2,3-cd)pyrene     | 0.400  | 0.374 | 6.5   | 68    | 0.00     |
| 37      | Benzo(b)fluoranthene       | 0.400  | 0.456 | -14.0 | 91    | 0.00     |
| 38      | Benzo(k)fluoranthene       | 0.400  | 0.407 | -1.7  | 75    | 0.00     |
| 39 C    | Benzo(a)pyrene             | 0.400  | 0.363 | 9.3   | 68    | 0.00     |
| 40      | Dibenzo(a,h)anthracene     | 0.400  | 0.362 | 9.5   | 67    | 0.00     |
| 41      | Benzo(g,h,i)perylene       | 0.400  | 0.368 | 8.0   | 68    | 0.00     |

(#) = Out of Range

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



# QC SAMPLE DATA

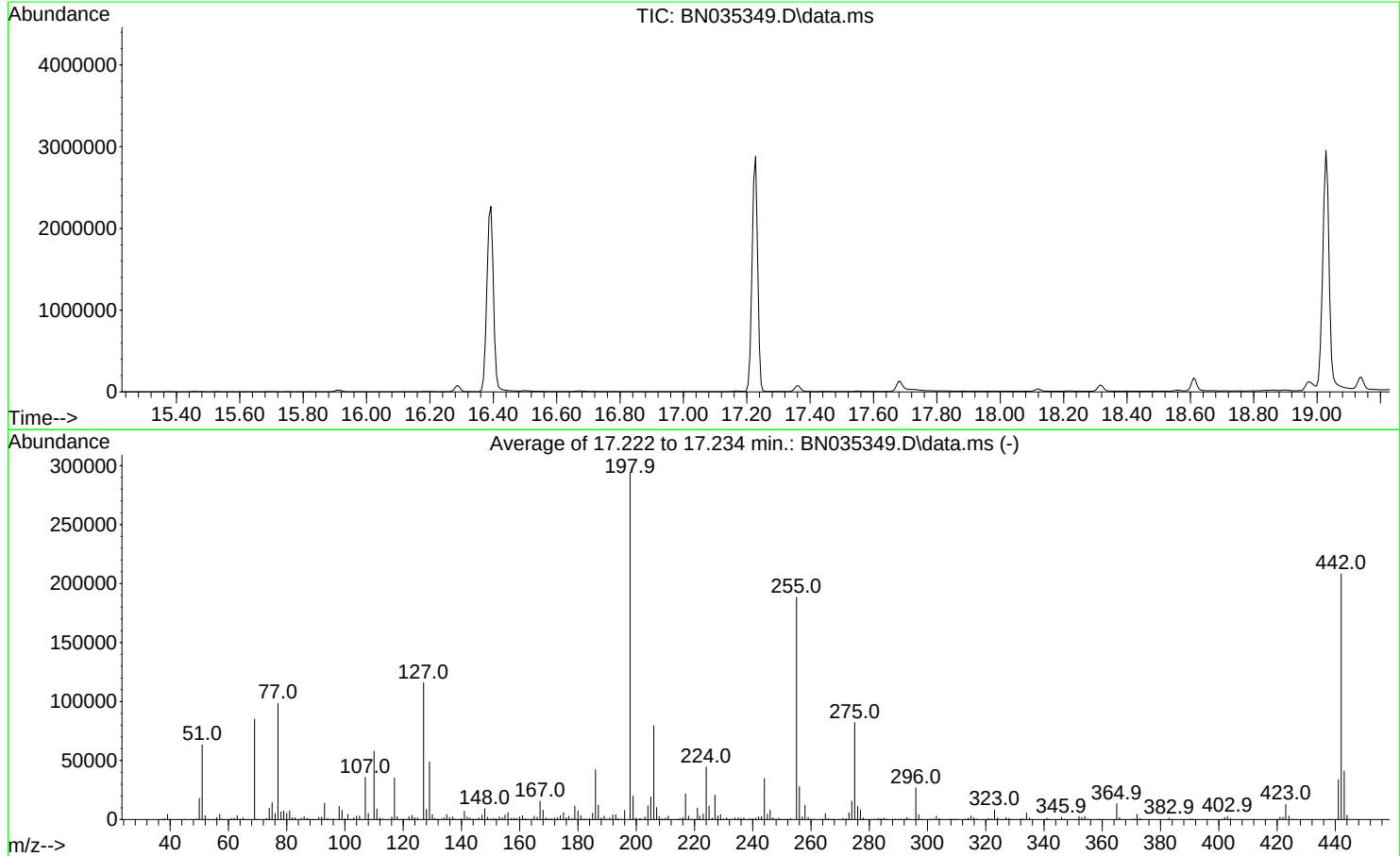
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\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



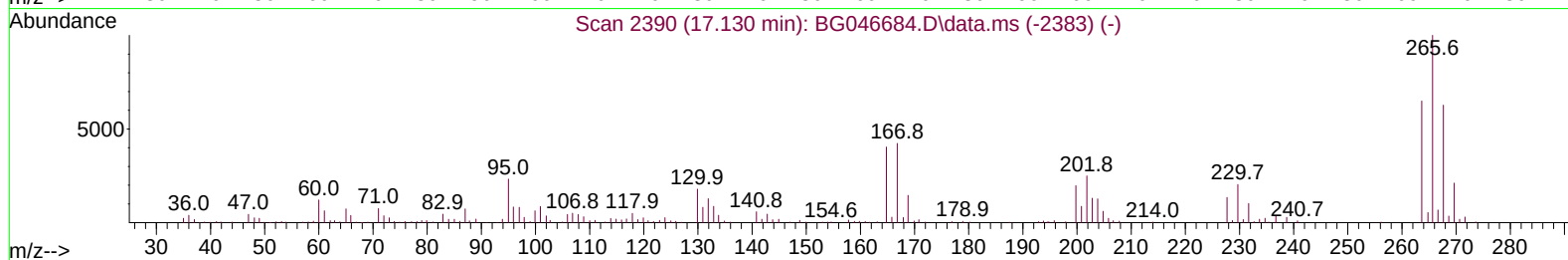
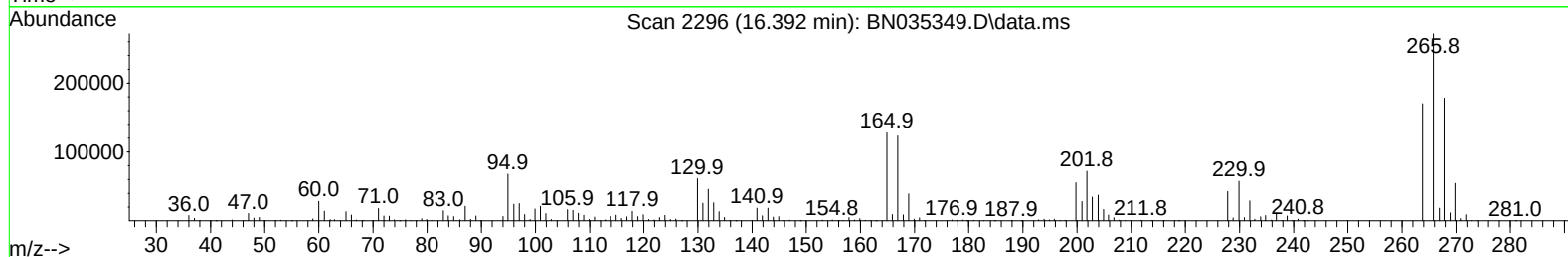
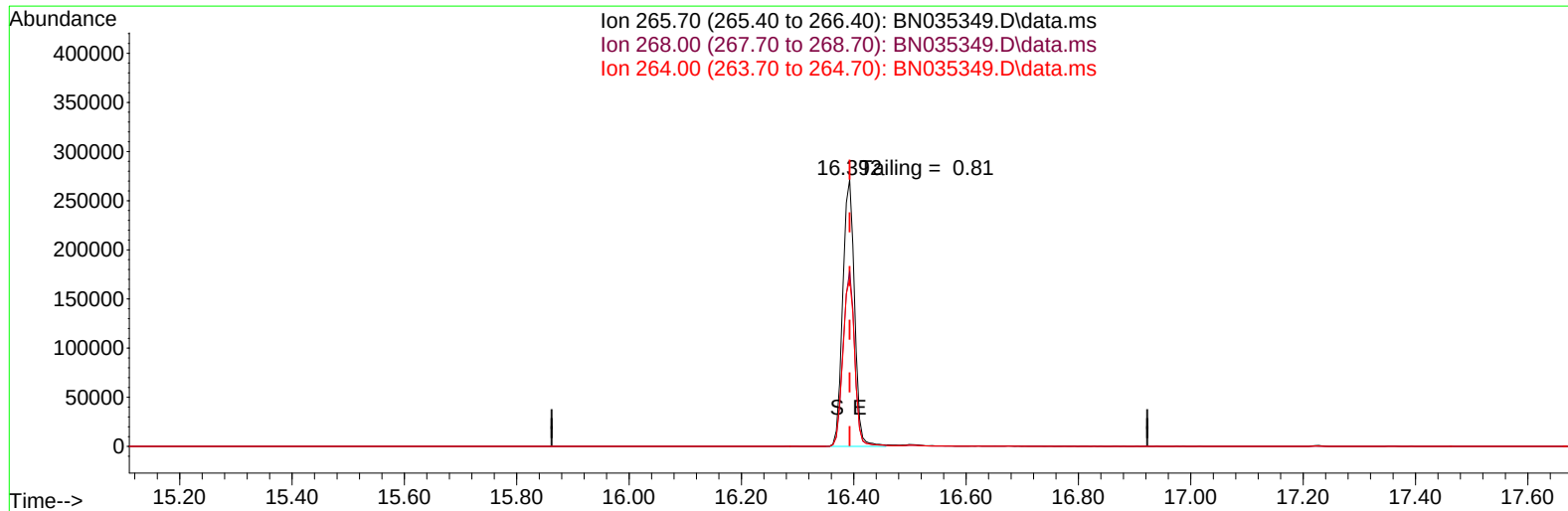
AutoFind: Scans 2437, 2438, 2439; Background Corrected with Scan 2430

| 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

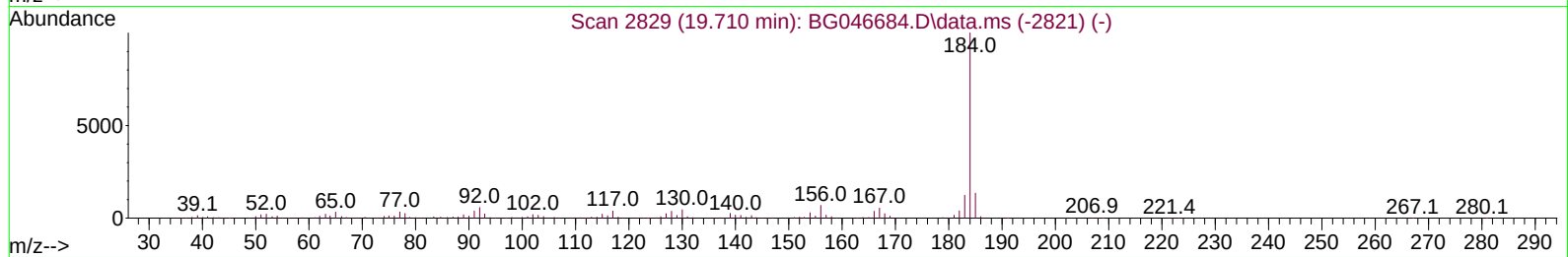
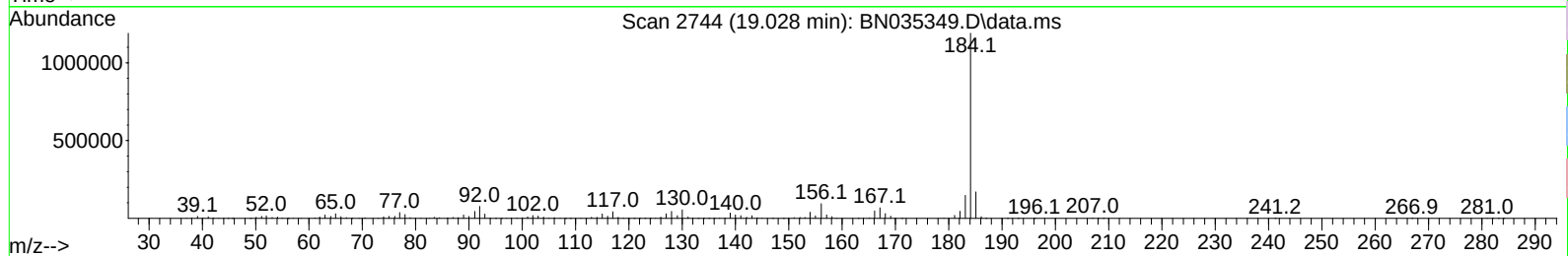
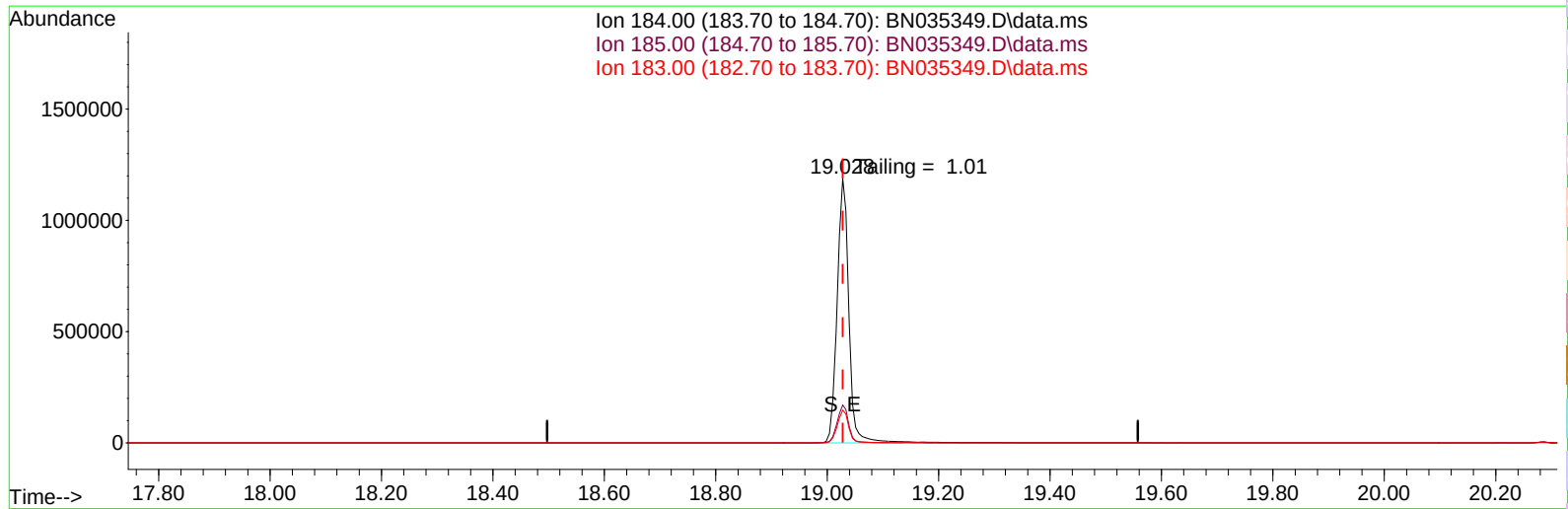
| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 265.70 | 100.00 | 100.00 |
| 268.00 | 62.20  | 65.68  |
| 264.00 | 61.60  | 62.66  |
| 0.00   | 0.00   | 0.00   |



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   |

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

DDT Breakdown

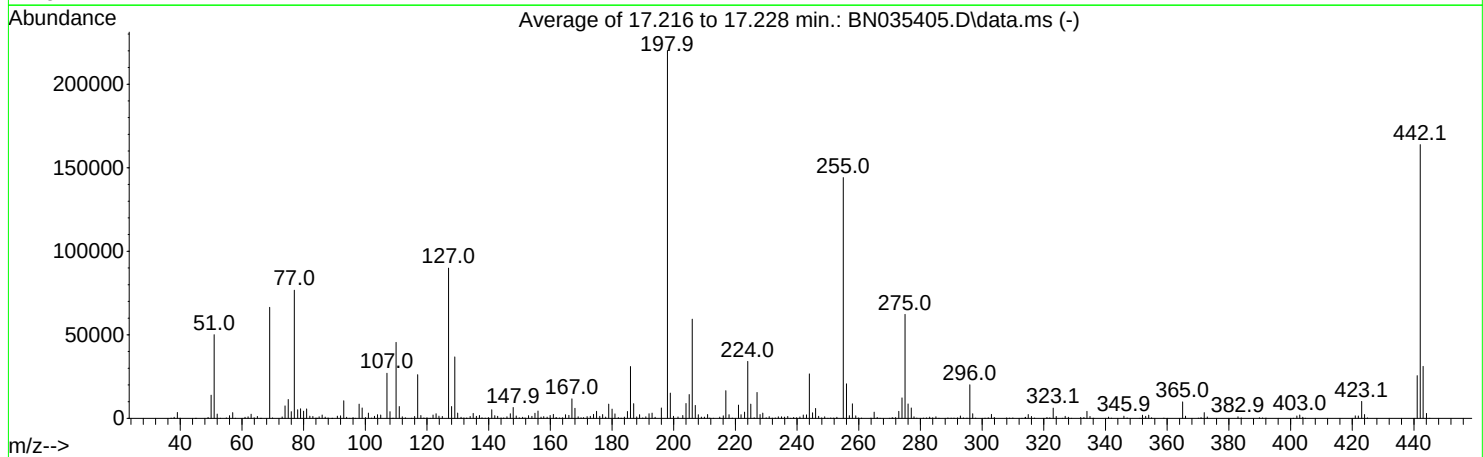
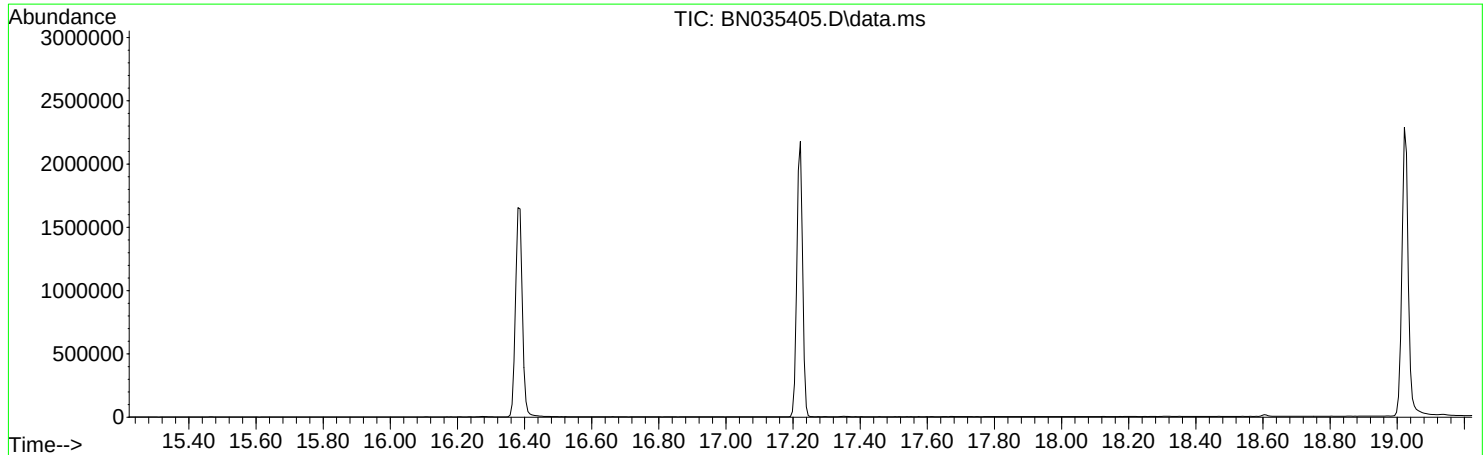
| Date          | Instrument Name  | DFTPP Data File    |
|---------------|------------------|--------------------|
| 11/27/2024    | BNA_N            | <u>BN035349.D</u>  |
|               |                  |                    |
|               |                  |                    |
| Compound 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\BN120424\  
Data File : BN035405.D  
Acq On : 03 Dec 2024 15:56  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

Integration File: rteint.p

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



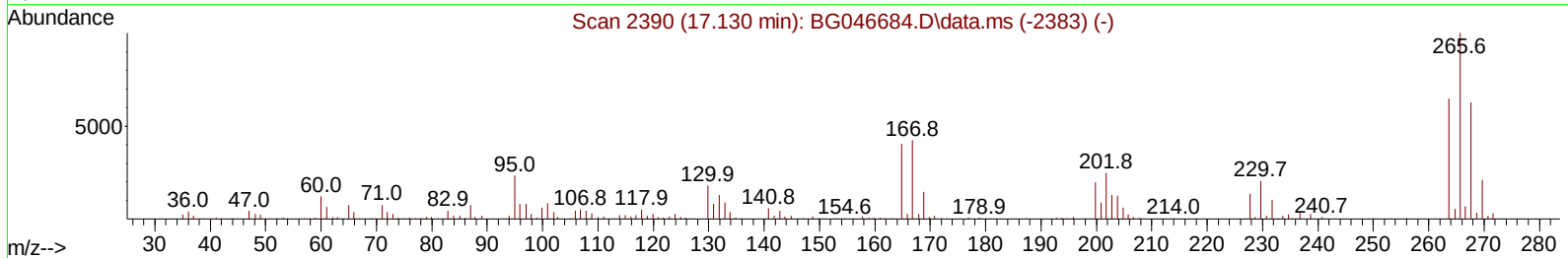
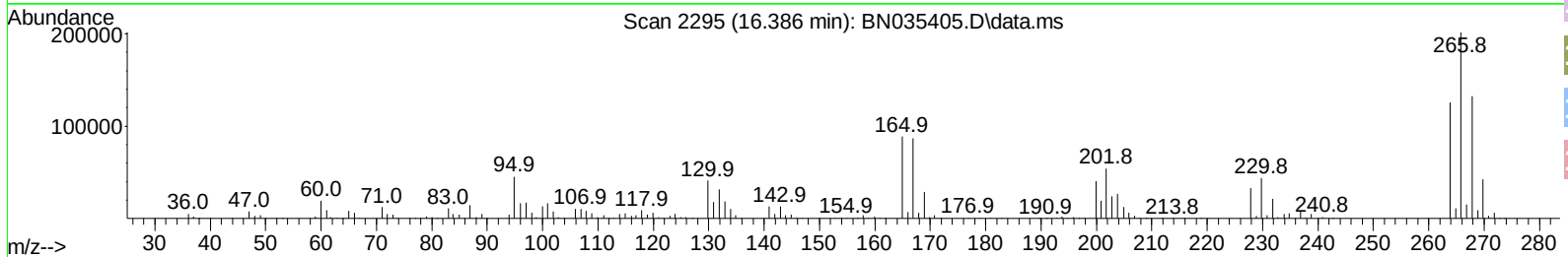
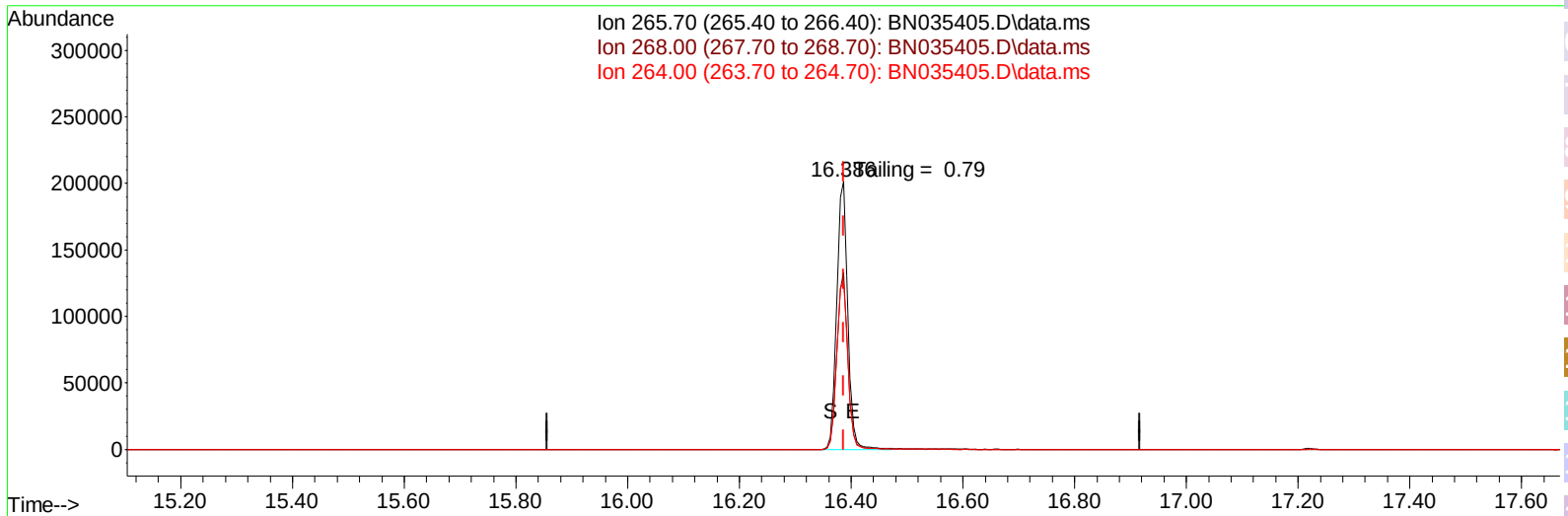
AutoFind: Scans 2436, 2437, 2438; Background Corrected with Scan 2429

| 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              | 22.8         | 50112      | PASS                |
| 68             | 69              | 0.00            | 2               | 0.0          | 0          | PASS                |
| 69             | 198             | 0.00            | 100             | 30.2         | 66499      | PASS                |
| 70             | 69              | 0.00            | 2               | 0.4          | 295        | PASS                |
| 127            | 198             | 10              | 80              | 40.9         | 89949      | PASS                |
| 197            | 198             | 0.00            | 2               | 0.0          | 0          | PASS                |
| 198            | 198             | 100             | 100             | 100.0        | 220181     | PASS                |
| 199            | 198             | 5               | 9               | 6.9          | 15167      | PASS                |
| 275            | 198             | 10              | 60              | 28.3         | 62245      | PASS                |
| 365            | 198             | 1               | 100             | 4.5          | 9919       | PASS                |
| 441            | 198             | 0.01            | 100             | 11.6         | 25605      | PASS                |
| 442            | 442             | 50              | 100             | 100.0        | 163819     | PASS                |
| 443            | 442             | 15              | 24              | 19.0         | 31133      | PASS                |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN120424\  
Data File : BN035405.D  
Acq On : 03 Dec 2024 15:56  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

Quant Time: Dec 03 23:08:33 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 03 23:08:29 2024  
Response via : Initial Calibration



TIC: BN035405.D\data.ms

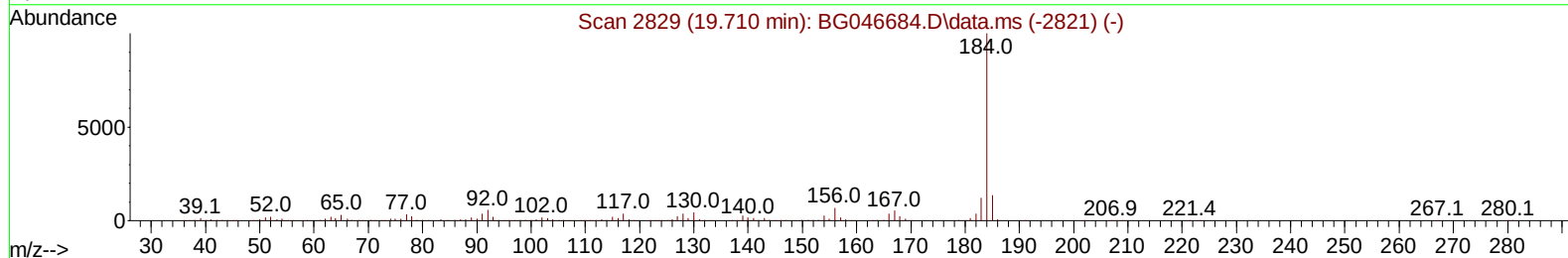
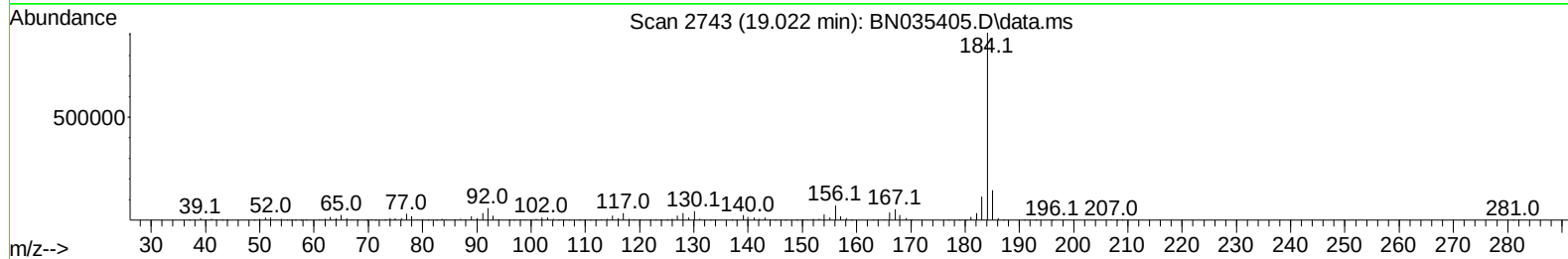
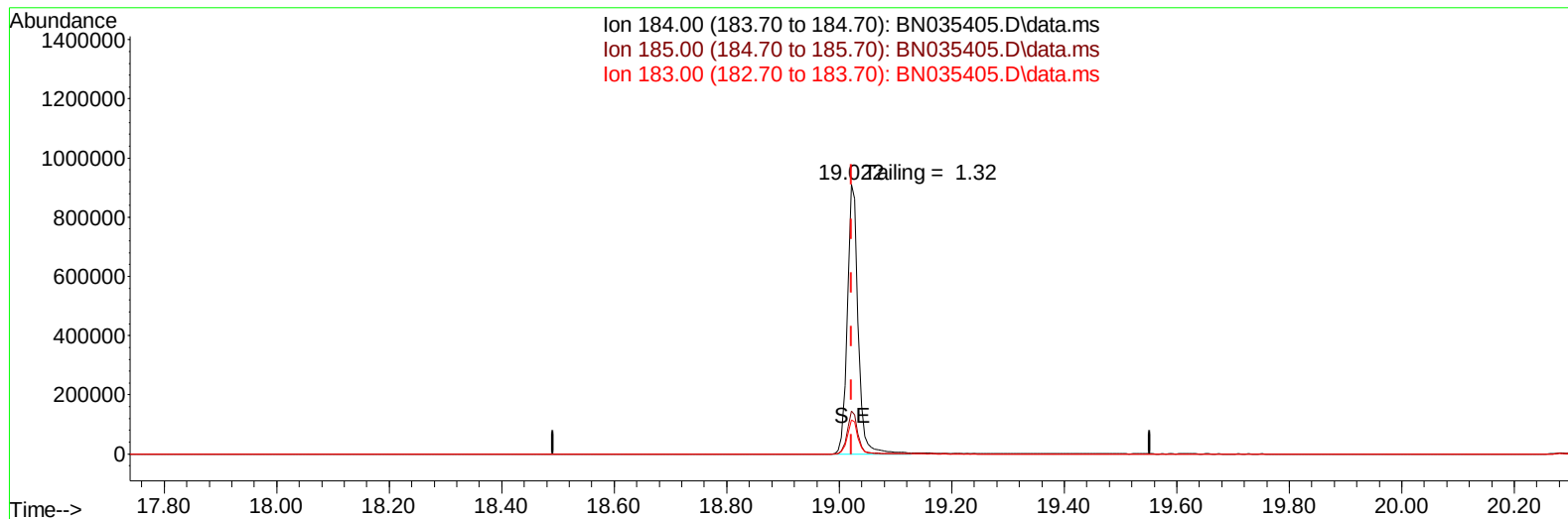
**(70) Pentachlorophenol (C)****16.386min ( 0.000) 30135.06 ng****response 280007**

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 265.70 | 100.00 | 100.00 |
| 268.00 | 62.20  | 65.85  |
| 264.00 | 61.60  | 62.30  |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN120424\  
Data File : BN035405.D  
Acq On : 03 Dec 2024 15:56  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

Quant Time: Dec 03 23:08:33 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 03 23:08:29 2024  
Response via : Initial Calibration



TIC: BN035405.D\data.ms

**(77) Benzidine**

19.022min ( 0.000) 0.00 ng

response 1239645

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 184.00 | 100.00 | 100.00 |
| 185.00 | 15.50  | 15.96  |
| 183.00 | 13.20  | 12.61  |
| 0.00   | 0.00   | 0.00   |

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

DDT Breakdown

| Date          | Instrument Name  | DFTPP Data File    |
|---------------|------------------|--------------------|
| 12/4/2024     | BNA_N            | <u>BN035405.D</u>  |
|               |                  |                    |
|               |                  |                    |
| Compound Name | Response         | Retention Time     |
|               |                  |                    |
| DDT           | 674620           | 20.286             |
| DDD           | 16934            | 19.833             |
| DDE           | 1155             | 19.322             |
|               |                  |                    |
|               |                  |                    |
| SUM(DDD+DDE)  | SUM(DDT+DDD+DDE) | % Breakdown Of DDT |
|               |                  |                    |
| 18089         | 692709           | 2.61               |
|               |                  |                    |

## Report of Analysis

|                    |                      |                  |                 |                |
|--------------------|----------------------|------------------|-----------------|----------------|
| Client:            | Tetra Tech NUS, Inc. |                  | Date Collected: |                |
| Project:           | CTO WE13             |                  | Date Received:  |                |
| Client Sample ID:  | PB165348BL           |                  | SDG No.:        | P5065          |
| Lab Sample ID:     | PB165348BL           |                  | Matrix:         | Water          |
| Analytical Method: | SW8270SIM            |                  | % 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 :      | SW3510C              |                  |                 |                |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BN035407.D        | 1         | 12/03/24 12:30 | 12/03/24 17:37 | PB165348      |

| 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 | 0.44  |           | 30 - 150 |      | 109%       | SPK: 0.4 |
| 93951-69-0                | Fluoranthene-d10        | 0.42  |           | 30 - 150 |      | 104%       | SPK: 0.4 |
| 4165-60-0                 | Nitrobenzene-d5         | 0.40  |           | 55 - 111 |      | 100%       | SPK: 0.4 |
| 321-60-8                  | 2-Fluorobiphenyl        | 0.42  |           | 53 - 106 |      | 106%       | SPK: 0.4 |
| 1718-51-0                 | Terphenyl-d14           | 0.51  |           | 58 - 132 |      | 128%       | SPK: 0.4 |
| <b>INTERNAL STANDARDS</b> |                         |       |           |          |      |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4  | 1830  | 7.3       |          |      |            |          |
| 1146-65-2                 | Naphthalene-d8          | 4530  | 10.052    |          |      |            |          |
| 15067-26-2                | Acenaphthene-d10        | 3260  | 13.967    |          |      |            |          |
| 1517-22-2                 | Phenanthrene-d10        | 8120  | 16.735    |          |      |            |          |
| 1719-03-5                 | Chrysene-d12            | 6940  | 20.983    |          |      |            |          |
| 1520-96-3                 | Perylene-d12            | 6490  | 23.076    |          |      |            |          |

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\BN120424\  
Data File : BN035407.D  
Acq On : 03 Dec 2024 17:37  
Operator : RC/JU  
Sample : PB165348BL  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
PB165348BL

Quant Time: Dec 03 18:02:35 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : 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   | 7.300  | 152  | 1833     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8           | 10.052 | 136  | 4526     | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10        | 13.967 | 164  | 3257     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10        | 16.735 | 188  | 8120     | 0.400 | ng    | # 0.00   |
| 29) Chrysene-d12            | 20.983 | 240  | 6937     | 0.400 | ng    | 0.00     |
| 35) Perylene-d12            | 23.076 | 264  | 6492     | 0.400 | ng    | # 0.00   |
| System Monitoring Compounds |        |      |          |       |       |          |
| 4) 2-Fluorophenol           | 4.953  | 112  | 1626     | 0.354 | ng    | -0.01    |
| 5) Phenol-d6                | 6.506  | 99   | 1782     | 0.323 | ng    | 0.00     |
| 8) Nitrobenzene-d5          | 8.440  | 82   | 1109     | 0.401 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10 | 11.656 | 152  | 3089     | 0.436 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol    | 15.485 | 330  | 400      | 0.173 | ng    | 0.01     |
| 15) 2-Fluorobiphenyl        | 12.574 | 172  | 5204     | 0.423 | ng    | 0.00     |
| 27) Fluoranthene-d10        | 18.785 | 212  | 9620     | 0.418 | ng    | 0.00     |
| 31) Terphenyl-d14           | 19.416 | 244  | 7009     | 0.512 | ng    | 0.00     |

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

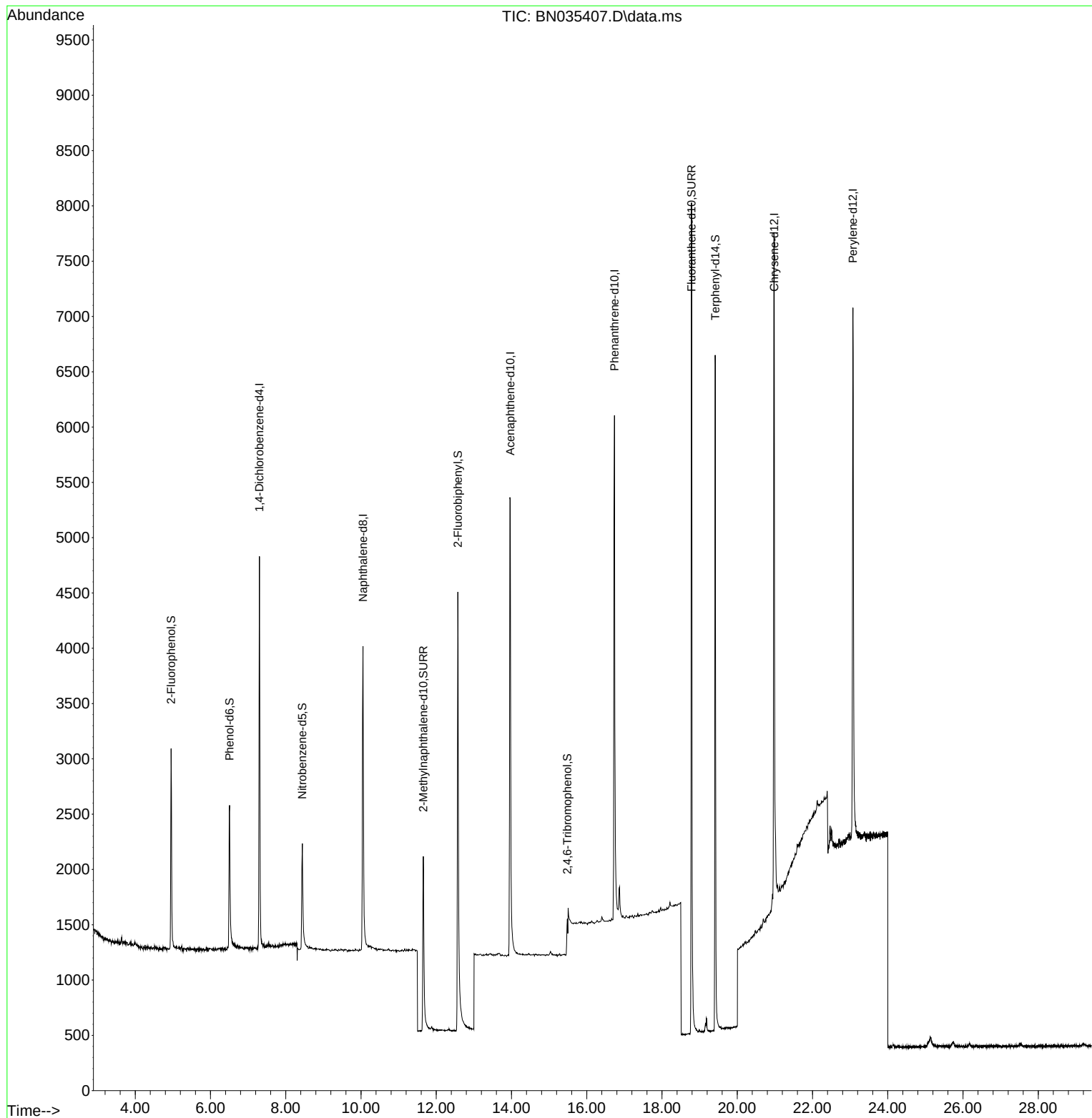
(#) = qualifier out of range (m) = manual integration (+) = signals summed

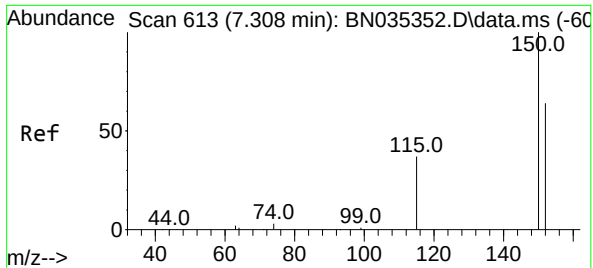


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Data File : BN035407.D  
Acq On : 03 Dec 2024 17:37  
Operator : RC/JU  
Sample : PB165348BL  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
PB165348BL

Quant Time: Dec 03 18:02:35 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Nov 27 23:03:24 2024  
Response via : Initial Calibration

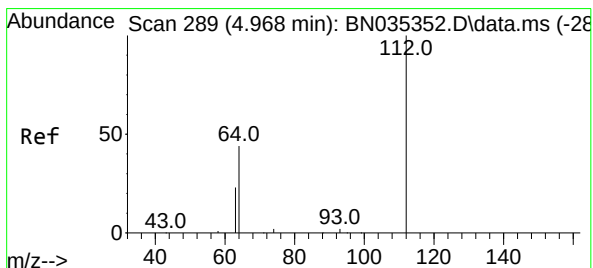
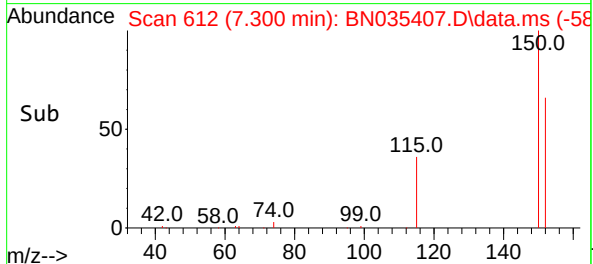
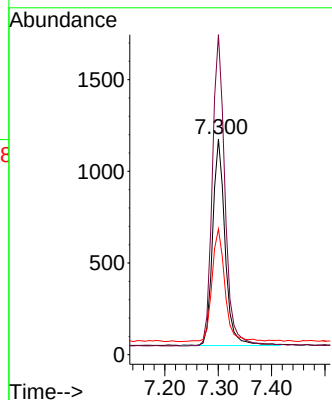
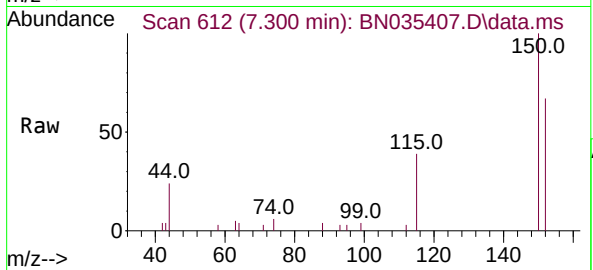




#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.300 min Scan# 613  
Delta R.T. -0.008 min  
Lab File: BN035407.D  
Acq: 03 Dec 2024 17:37

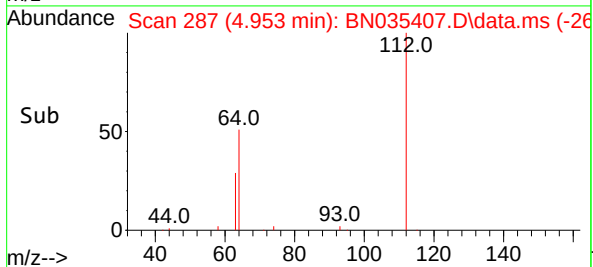
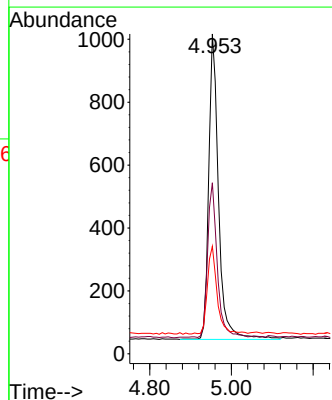
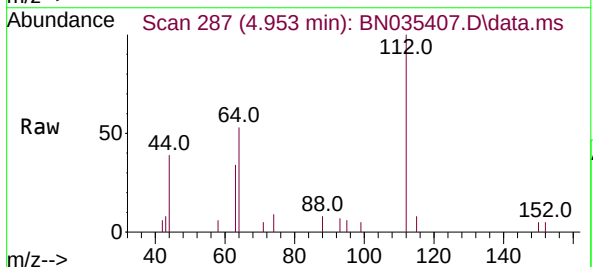
Instrument :  
BNA\_N  
ClientSampleId :  
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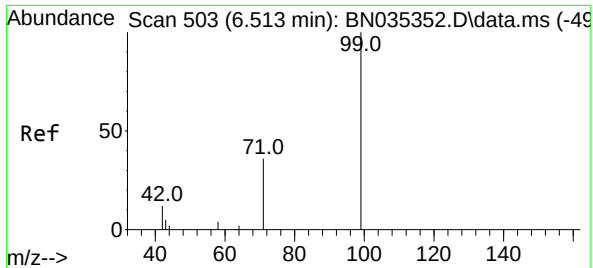
Tgt Ion:152 Resp: 1833  
Ion Ratio Lower Upper  
152 100  
150 148.4 124.0 186.0  
115 58.3 49.6 74.4



#4  
2-Fluorophenol  
Concen: 0.354 ng  
RT: 4.953 min Scan# 287  
Delta R.T. -0.014 min  
Lab File: BN035407.D  
Acq: 03 Dec 2024 17:37

Tgt Ion:112 Resp: 1626  
Ion Ratio Lower Upper  
112 100  
64 50.6 39.8 59.8  
63 28.5 21.0 31.6

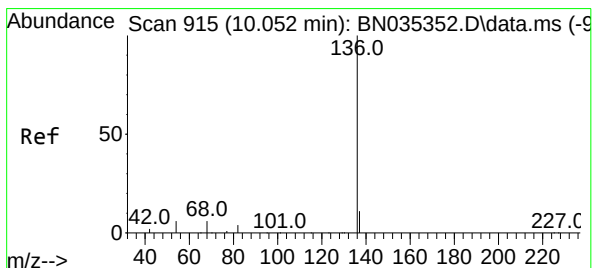
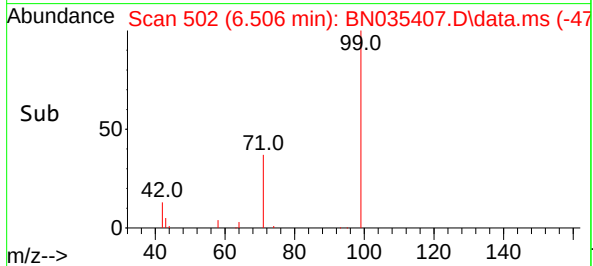
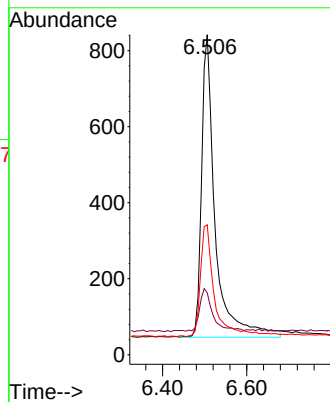
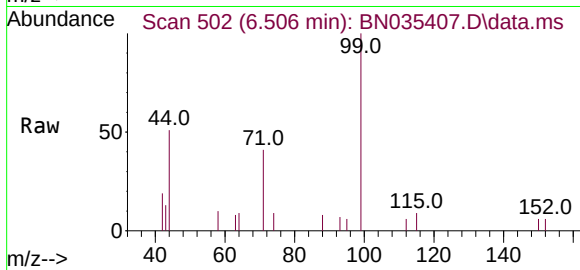




#5  
Phenol-d6  
Concen: 0.323 ng  
RT: 6.506 min Scan# 503  
Delta R.T. -0.007 min  
Lab File: BN035407.D  
Acq: 03 Dec 2024 17:37

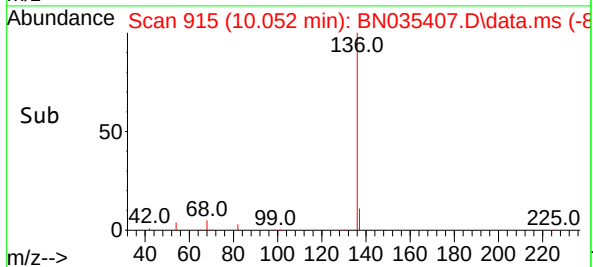
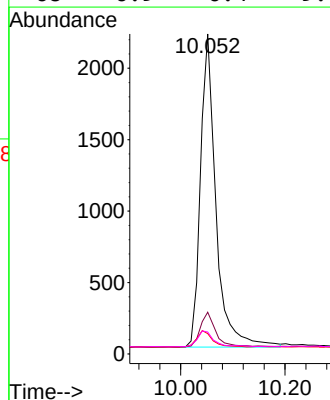
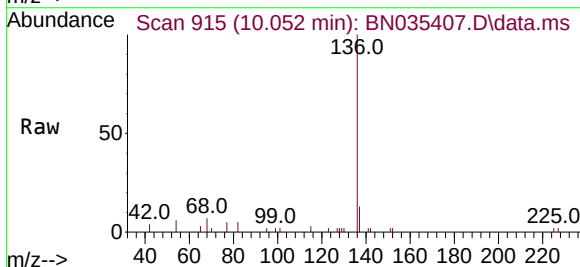
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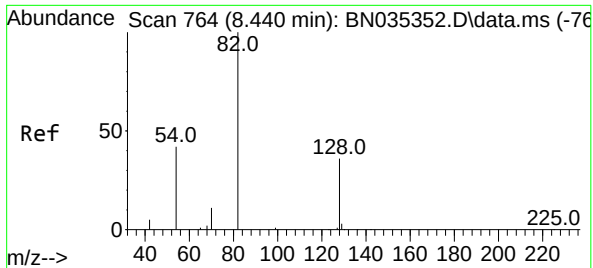
Tgt Ion: 99 Resp: 1782  
Ion Ratio Lower Upper  
99 100  
42 13.4 11.4 17.2  
71 38.6 29.3 43.9



#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.052 min Scan# 915  
Delta R.T. -0.000 min  
Lab File: BN035407.D  
Acq: 03 Dec 2024 17:37

Tgt Ion: 136 Resp: 4526  
Ion Ratio Lower Upper  
136 100  
137 13.1 10.2 15.2  
54 6.4 6.1 9.1  
68 6.9 6.4 9.6

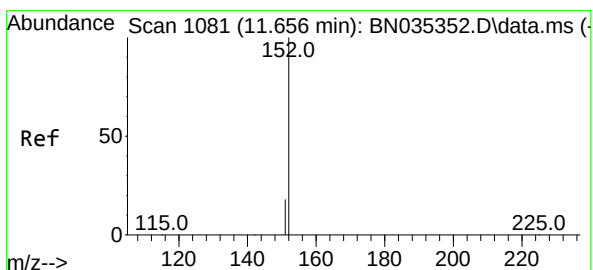
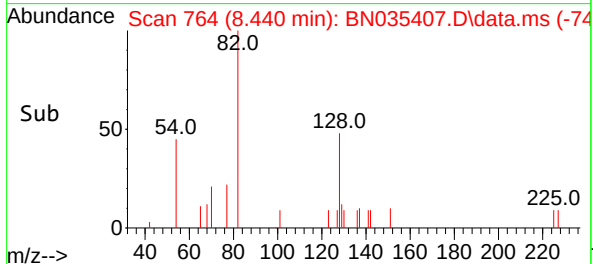
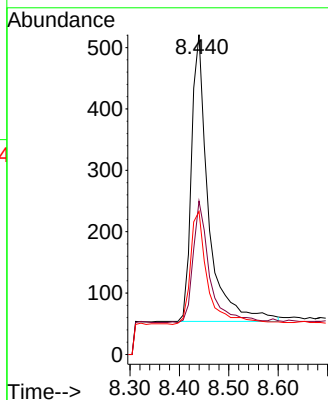
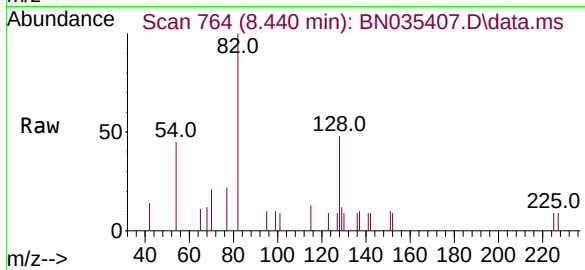




#8  
Nitrobenzene-d5  
Concen: 0.401 ng  
RT: 8.440 min Scan# 764  
Delta R.T. -0.000 min  
Lab File: BN035407.D  
Acq: 03 Dec 2024 17:37

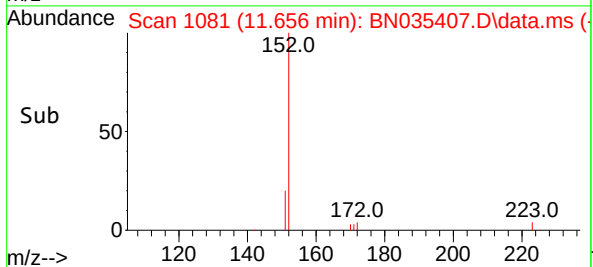
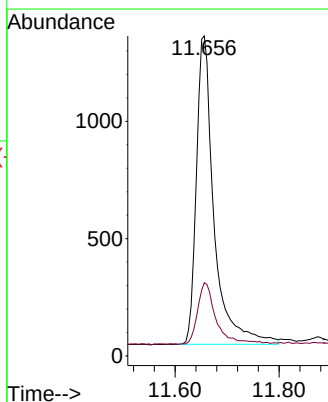
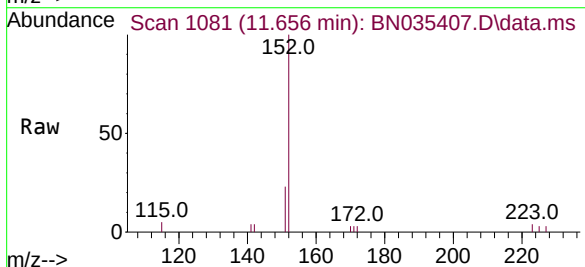
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ClientSampleId :  
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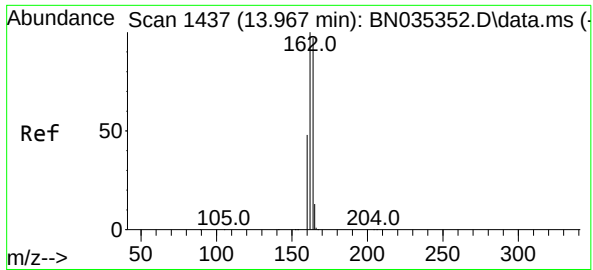
Tgt Ion: 82 Resp: 1109  
Ion Ratio Lower Upper  
82 100  
128 48.0 33.4 50.0  
54 44.7 36.7 55.1



#11  
2-Methylnaphthalene-d10  
Concen: 0.436 ng  
RT: 11.656 min Scan# 1081  
Delta R.T. -0.000 min  
Lab File: BN035407.D  
Acq: 03 Dec 2024 17:37

Tgt Ion: 152 Resp: 3089  
Ion Ratio Lower Upper  
152 100  
151 21.0 16.6 25.0

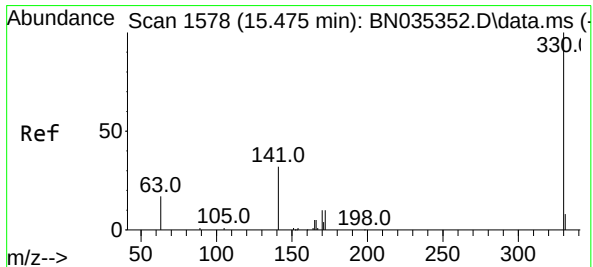
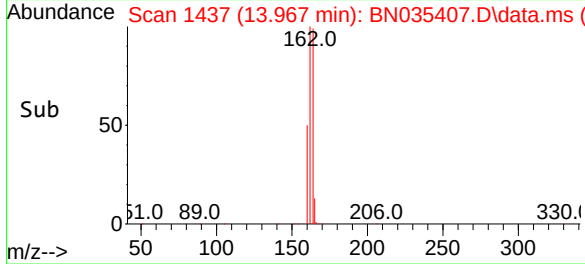
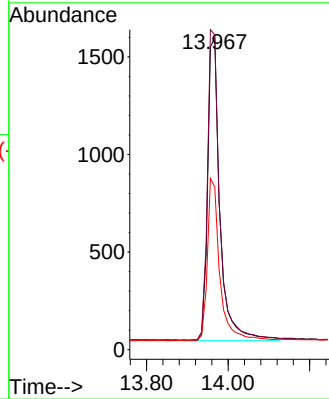
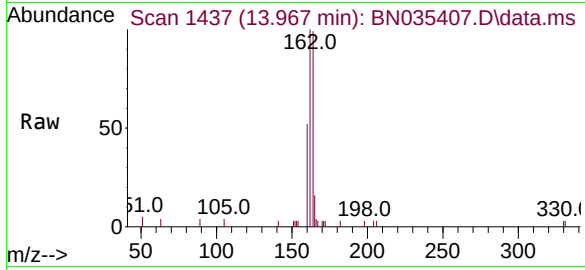




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.967 min Scan# 1437  
Delta R.T. -0.000 min  
Lab File: BN035407.D  
Acq: 03 Dec 2024 17:37

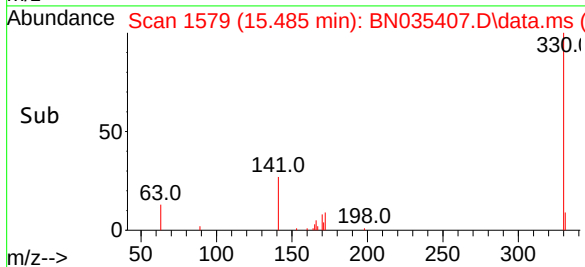
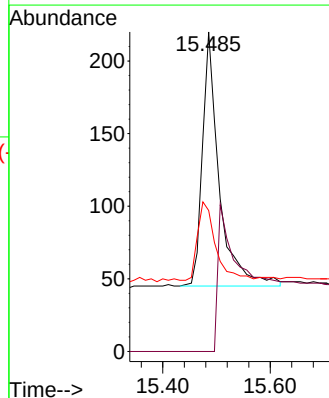
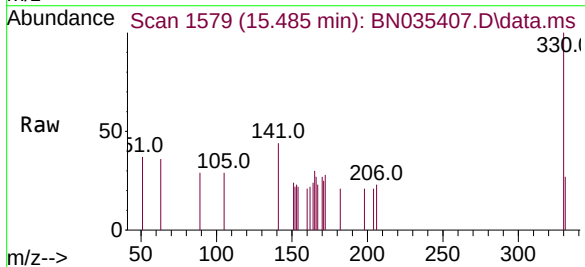
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ClientSampleId :  
PB165348BL

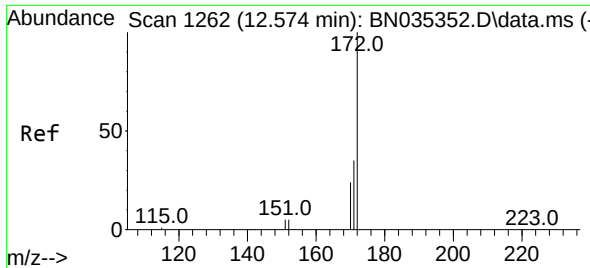
Tgt Ion:164 Resp: 3257  
Ion Ratio Lower Upper  
164 100  
162 101.3 82.2 123.2  
160 52.4 40.1 60.1



#14  
2,4,6-Tribromophenol  
Concen: 0.173 ng  
RT: 15.485 min Scan# 1579  
Delta R.T. 0.011 min  
Lab File: BN035407.D  
Acq: 03 Dec 2024 17:37

Tgt Ion:330 Resp: 400  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 32.8 26.6 40.0

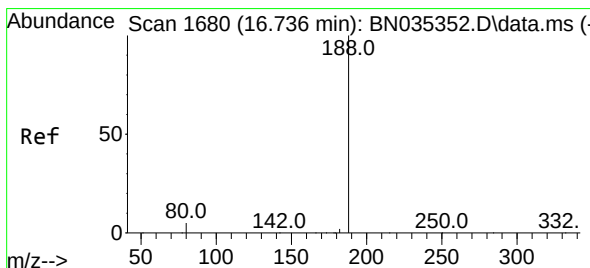
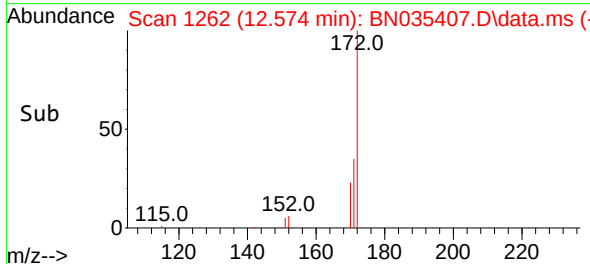
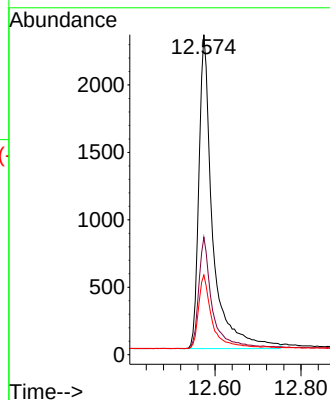
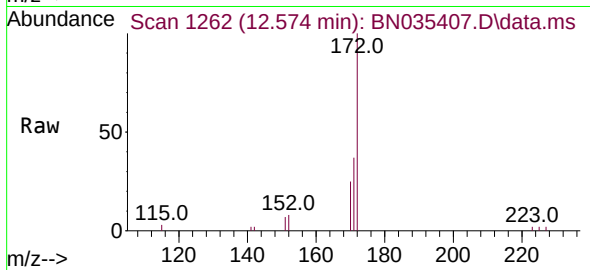




#15  
2-Fluorobiphenyl  
Concen: 0.423 ng  
RT: 12.574 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: BN035407.D  
Acq: 03 Dec 2024 17:37

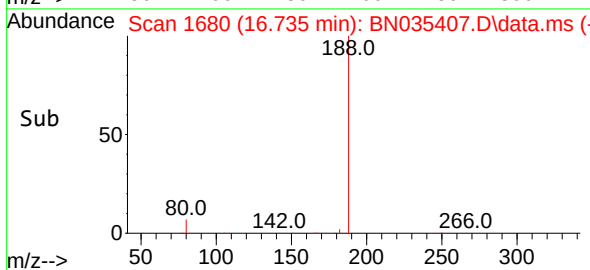
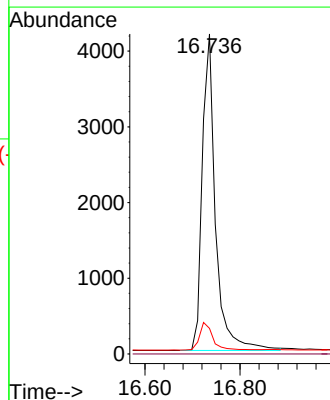
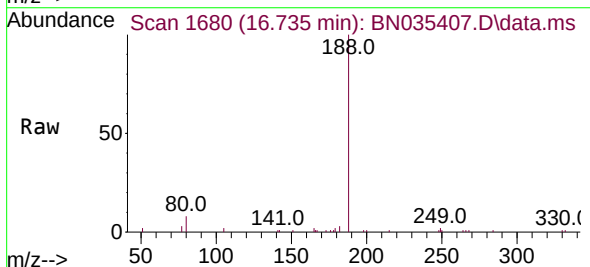
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ClientSampleId :  
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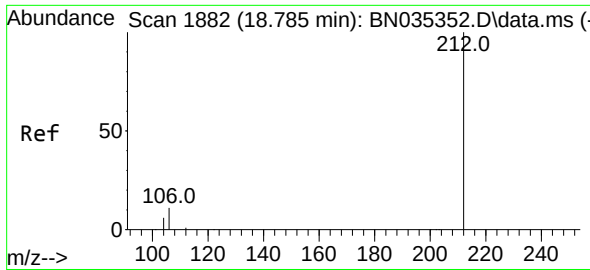
|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:172 | Resp: | 5204        |
| Ion         | Ratio | Lower Upper |
| 172         | 100   |             |
| 171         | 36.7  | 29.0 43.4   |
| 170         | 24.9  | 19.8 29.8   |



#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 16.735 min Scan# 1680  
Delta R.T. -0.000 min  
Lab File: BN035407.D  
Acq: 03 Dec 2024 17:37

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:188 | Resp: | 8120        |
| Ion         | Ratio | Lower Upper |
| 188         | 100   |             |
| 94          | 0.0   | 0.0 0.0     |
| 80          | 8.0   | 4.6 6.8#    |

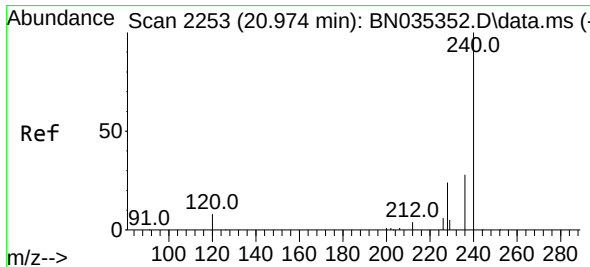
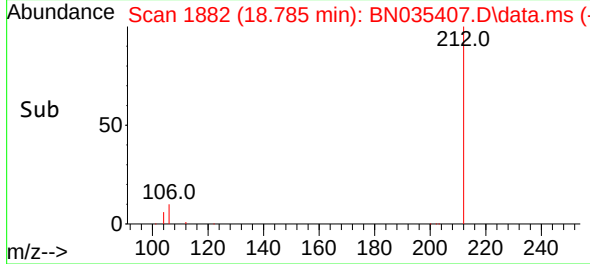
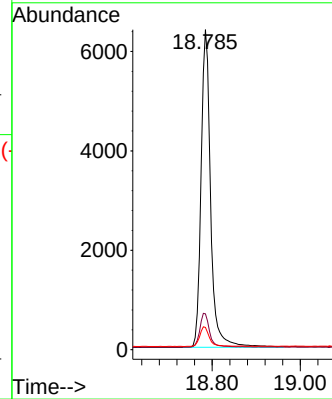
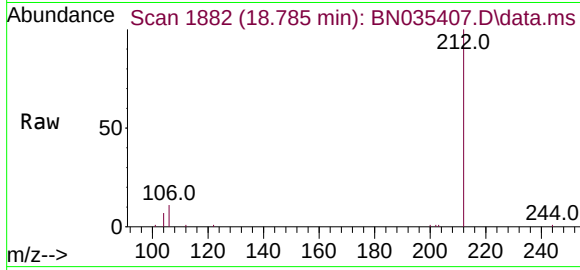




#27  
Fluoranthene-d10  
Concen: 0.418 ng  
RT: 18.785 min Scan# 1882  
Delta R.T. -0.000 min  
Lab File: BN035407.D  
Acq: 03 Dec 2024 17:37

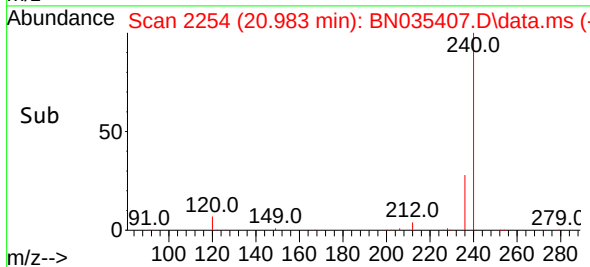
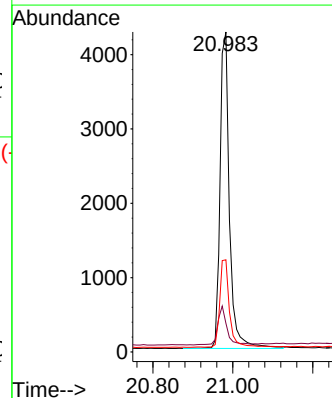
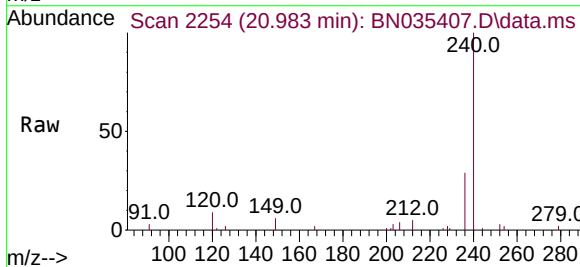
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ClientSampleId :  
PB165348BL

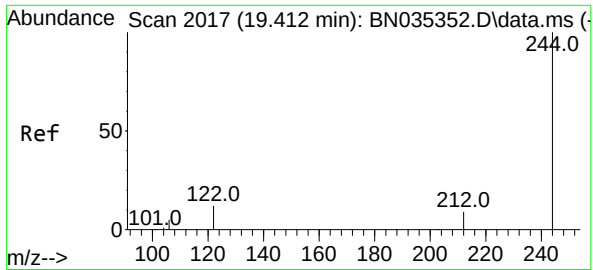
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 212     | 100   |       |       |
| 106     | 10.9  | 9.2   | 13.8  |
| 104     | 6.2   | 5.3   | 7.9   |



#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 20.983 min Scan# 2254  
Delta R.T. 0.009 min  
Lab File: BN035407.D  
Acq: 03 Dec 2024 17:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 8.9   | 7.9   | 11.9  |
| 236     | 28.8  | 22.9  | 34.3  |

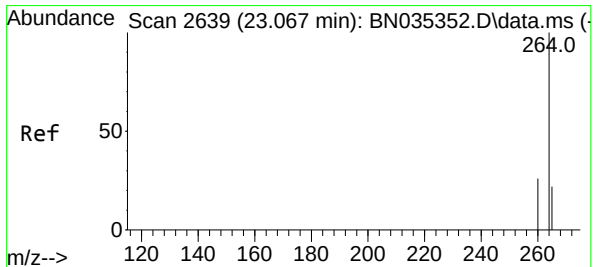
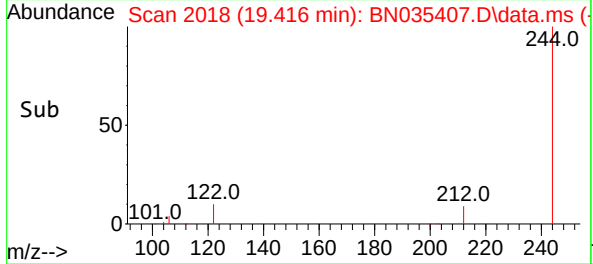
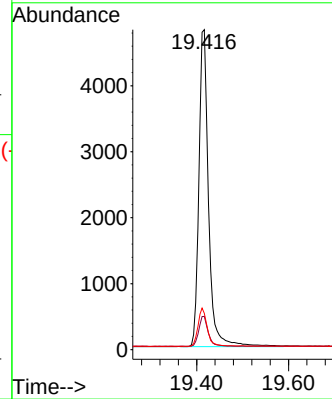
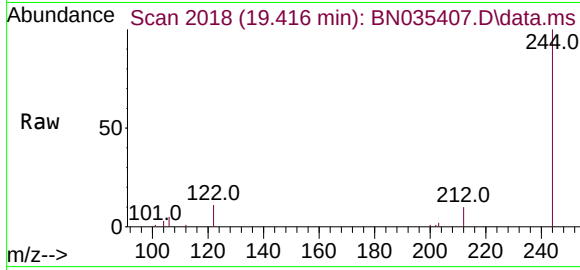




#31  
Terphenyl-d14  
Concen: 0.512 ng  
RT: 19.416 min Scan# 2017  
Delta R.T. 0.005 min  
Lab File: BN035407.D  
Acq: 03 Dec 2024 17:37

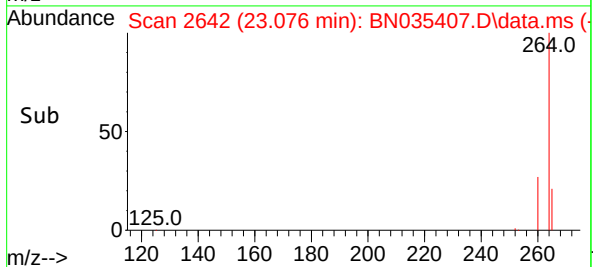
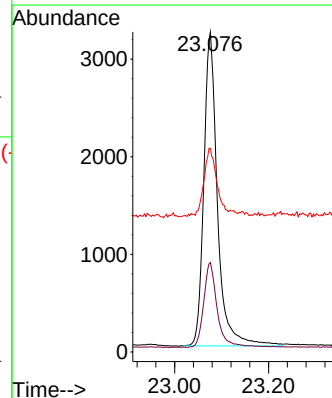
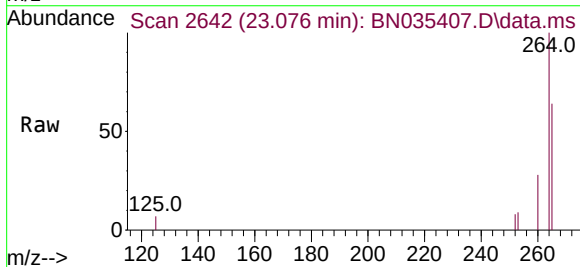
Instrument :  
BNA\_N  
ClientSampleId :  
PB165348BL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 10.4  | 8.1   | 12.1  |
| 122     | 11.3  | 10.3  | 15.5  |



#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.076 min Scan# 2642  
Delta R.T. 0.009 min  
Lab File: BN035407.D  
Acq: 03 Dec 2024 17:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 27.9  | 21.4  | 32.2  |
| 265     | 63.6  | 40.2  | 60.4  |





## Report of Analysis

|                    |                      |                 |                |
|--------------------|----------------------|-----------------|----------------|
| Client:            | Tetra Tech NUS, Inc. | Date Collected: |                |
| Project:           | CTO WE13             | Date Received:  |                |
| Client Sample ID:  | PB165348BS           | SDG No.:        | P5065          |
| Lab Sample ID:     | PB165348BS           | Matrix:         | Water          |
| Analytical Method: | SW8270SIM            | % 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 :      | SW3510C              |                 |                |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BN035408.D        | 1         | 12/03/24 12:30 | 12/03/24 18:13 | PB165348      |

| 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 | 0.52  |           | 30 - 150 |      | 130%       | SPK: 0.4 |
| 93951-69-0                | Fluoranthene-d10        | 0.40  |           | 30 - 150 |      | 100%       | SPK: 0.4 |
| 4165-60-0                 | Nitrobenzene-d5         | 0.45  | *         | 55 - 111 |      | 112%       | SPK: 0.4 |
| 321-60-8                  | 2-Fluorobiphenyl        | 0.43  | *         | 53 - 106 |      | 108%       | SPK: 0.4 |
| 1718-51-0                 | Terphenyl-d14           | 0.46  |           | 58 - 132 |      | 116%       | SPK: 0.4 |
| <b>INTERNAL STANDARDS</b> |                         |       |           |          |      |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4  | 2150  | 7.301     |          |      |            |          |
| 1146-65-2                 | Naphthalene-d8          | 5110  | 10.052    |          |      |            |          |
| 15067-26-2                | Acenaphthene-d10        | 3360  | 13.957    |          |      |            |          |
| 1517-22-2                 | Phenanthrene-d10        | 8330  | 16.723    |          |      |            |          |
| 1719-03-5                 | Chrysene-d12            | 7510  | 20.974    |          |      |            |          |
| 1520-96-3                 | Perylene-d12            | 6900  | 23.067    |          |      |            |          |

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\BN120424\  
 Data File : BN035408.D  
 Acq On : 03 Dec 2024 18:13  
 Operator : RC/JU  
 Sample : PB165348BS  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 PB165348BS

Quant Time: Dec 03 22:05:05 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Nov 27 23:03:24 2024  
 Response via : Initial Calibration

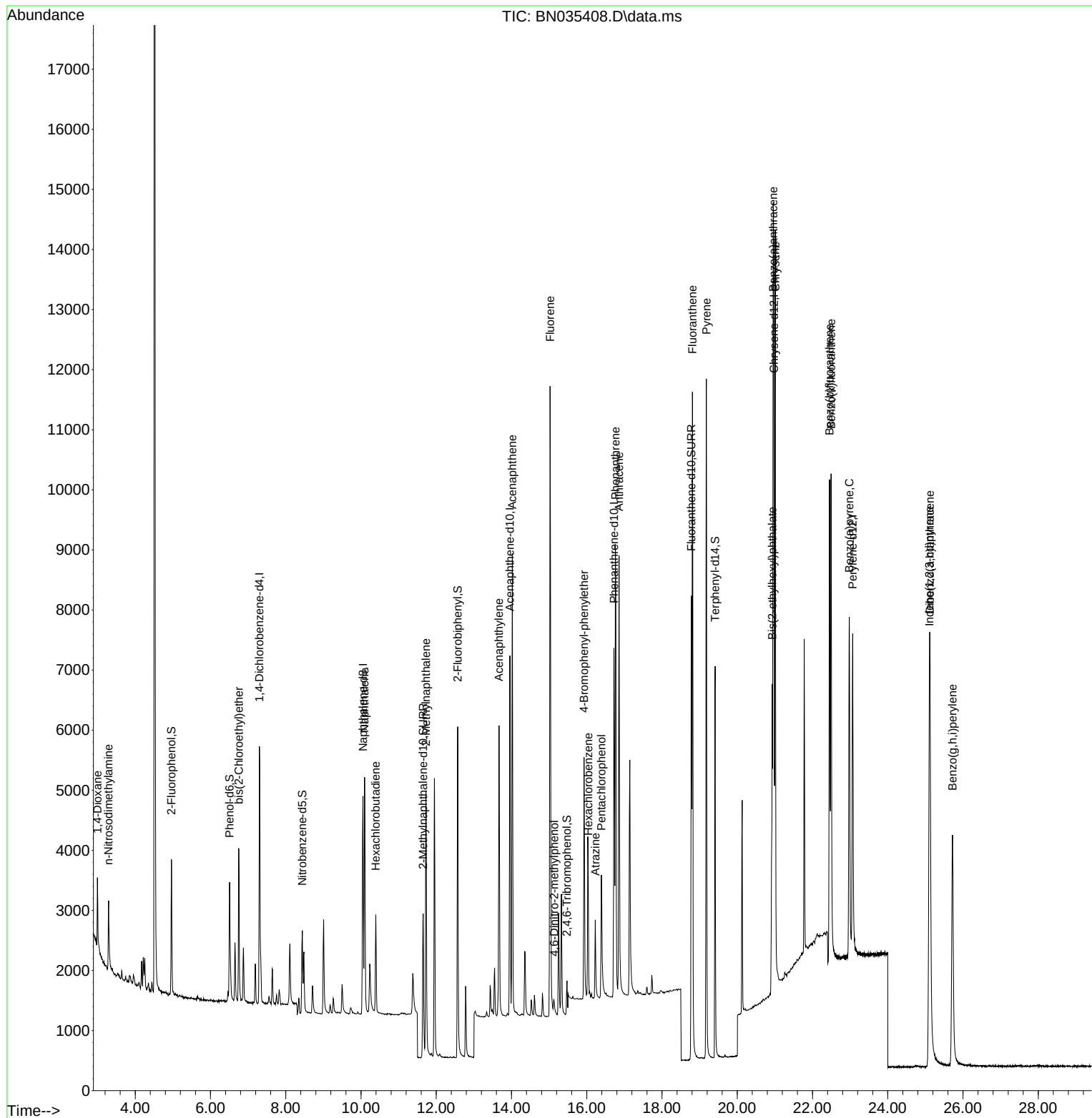
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.301  | 152  | 2152     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.052 | 136  | 5114     | 0.400 | ng    | # 0.00   |
| 13) Acenaphthene-d10          | 13.957 | 164  | 3359     | 0.400 | ng    | -0.01    |
| 19) Phenanthrene-d10          | 16.723 | 188  | 8334     | 0.400 | ng    | #-0.01   |
| 29) Chrysene-d12              | 20.974 | 240  | 7507     | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.067 | 264  | 6897     | 0.400 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 4.961  | 112  | 1873     | 0.348 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.506  | 99   | 2132     | 0.329 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.440  | 82   | 1399     | 0.448 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.651 | 152  | 4155     | 0.519 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.475 | 330  | 550      | 0.231 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.569 | 172  | 5473     | 0.431 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 18.780 | 212  | 9414     | 0.398 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.412 | 244  | 6867     | 0.464 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
| 2) 1,4-Dioxane                | 2.996  | 88   | 754      | 0.367 | ng    | # 72     |
| 3) n-Nitrosodimethylamine     | 3.285  | 42   | 671      | 0.392 | ng    | # 98     |
| 6) bis(2-Chloroethyl)ether    | 6.752  | 93   | 2015     | 0.370 | ng    | 99       |
| 9) Naphthalene                | 10.095 | 128  | 5182     | 0.384 | ng    | 99       |
| 10) Hexachlorobutadiene       | 10.394 | 225  | 1293     | 0.416 | ng    | # 99     |
| 12) 2-Methylnaphthalene       | 11.727 | 142  | 3585     | 0.371 | ng    | 98       |
| 16) Acenaphthylene            | 13.668 | 152  | 5729     | 0.406 | ng    | 99       |
| 17) Acenaphthene              | 14.021 | 154  | 3643     | 0.389 | ng    | 99       |
| 18) Fluorene                  | 15.026 | 166  | 5048     | 0.377 | ng    | 100      |
| 20) 4,6-Dinitro-2-methylph... | 15.133 | 198  | 266      | 0.325 | ng    | 85       |
| 21) 4-Bromophenyl-phenylether | 15.929 | 248  | 1855     | 0.381 | ng    | # 77     |
| 22) Hexachlorobenzene         | 16.041 | 284  | 2219     | 0.388 | ng    | 98       |
| 23) Atrazine                  | 16.227 | 200  | 1192     | 0.344 | ng    | 98       |
| 24) Pentachlorophenol         | 16.388 | 266  | 1328     | 0.533 | ng    | # 86     |
| 25) Phenanthrene              | 16.760 | 178  | 8896     | 0.389 | ng    | 100      |
| 26) Anthracene                | 16.860 | 178  | 8036     | 0.388 | ng    | 99       |
| 28) Fluoranthene              | 18.813 | 202  | 10698    | 0.347 | ng    | 99       |
| 30) Pyrene                    | 19.180 | 202  | 10998    | 0.397 | ng    | 99       |
| 32) Benzo(a)anthracene        | 20.956 | 228  | 9786     | 0.373 | ng    | 100      |
| 33) Chrysene                  | 21.010 | 228  | 10984    | 0.406 | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 20.929 | 149  | 3698     | 0.357 | ng    | 99       |
| 36) Indeno(1,2,3-cd)pyrene    | 25.105 | 276  | 10275    | 0.381 | ng    | 98       |
| 37) Benzo(b)fluoranthene      | 22.453 | 252  | 9922     | 0.393 | ng    | 98       |
| 38) Benzo(k)fluoranthene      | 22.494 | 252  | 10718    | 0.432 | ng    | 99       |
| 39) Benzo(a)pyrene            | 22.977 | 252  | 8783     | 0.423 | ng    | 98       |
| 40) Dibenzo(a,h)anthracene    | 25.123 | 278  | 7917     | 0.372 | ng    | 98       |
| 41) Benzo(g,h,i)perylene      | 25.719 | 276  | 8299     | 0.373 | ng    | 98       |

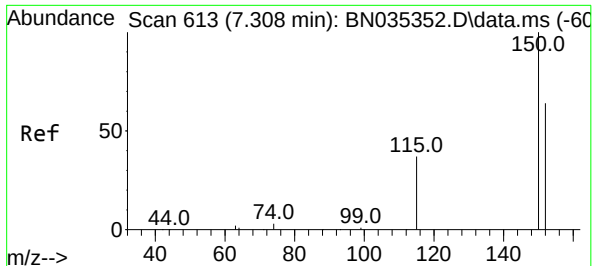
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN035408.D  
Acq On : 03 Dec 2024 18:13  
Operator : RC/JU  
Sample : PB165348BS  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
PB165348BS

Quant Time: Dec 03 22:05:05 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Nov 27 23:03:24 2024  
Response via : Initial Calibration

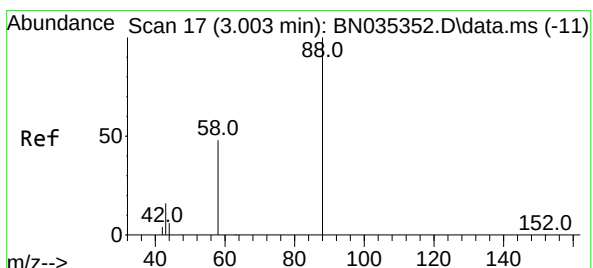
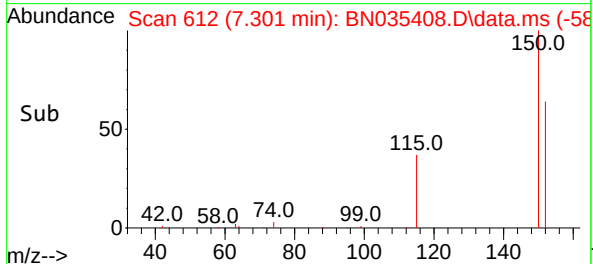
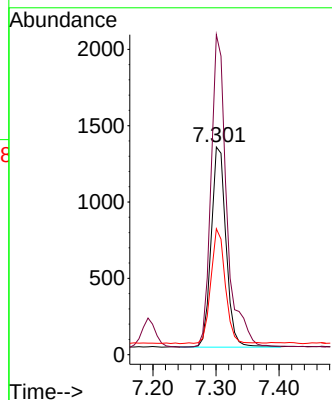
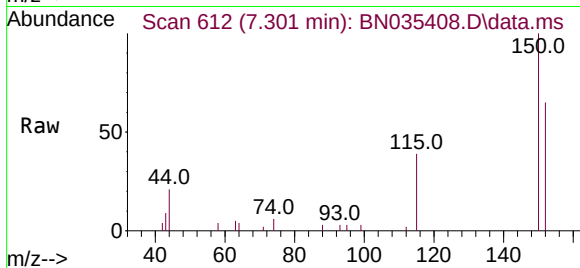




#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.301 min Scan# 61  
Delta R.T. -0.007 min  
Lab File: BN035408.D  
Acq: 03 Dec 2024 18:13

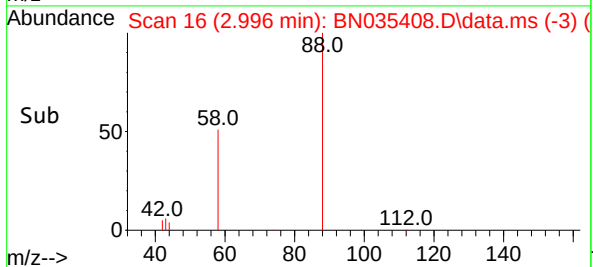
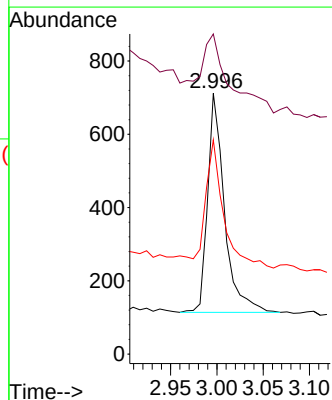
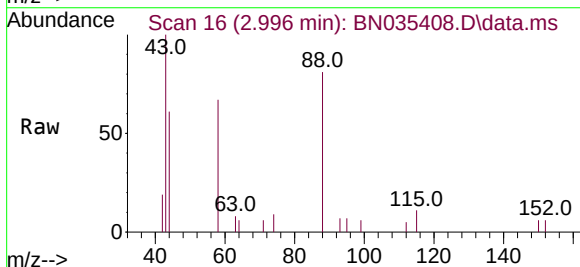
Instrument :  
BNA\_N  
ClientSampleId :  
PB165348BS

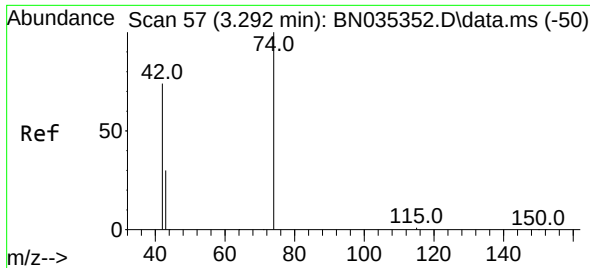
Tgt Ion:152 Resp: 2152  
Ion Ratio Lower Upper  
152 100  
150 154.1 124.0 186.0  
115 60.7 49.6 74.4



#2  
1,4-Dioxane  
Concen: 0.367 ng  
RT: 2.996 min Scan# 16  
Delta R.T. -0.007 min  
Lab File: BN035408.D  
Acq: 03 Dec 2024 18:13

Tgt Ion: 88 Resp: 754  
Ion Ratio Lower Upper  
88 100  
43 58.1 17.2 25.8#  
58 61.8 44.5 66.7

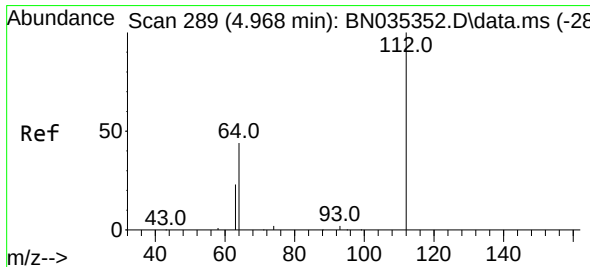
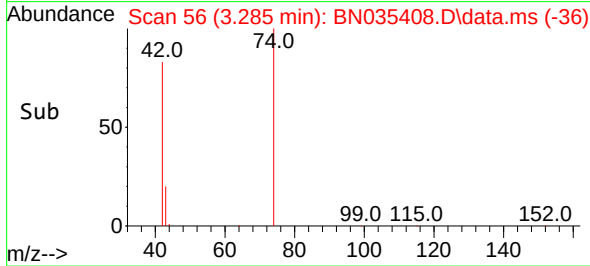
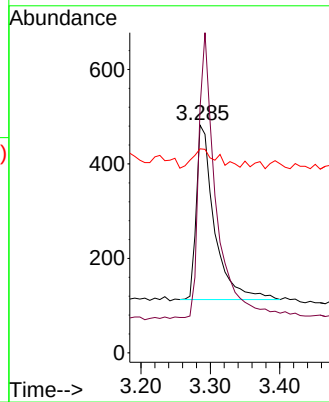
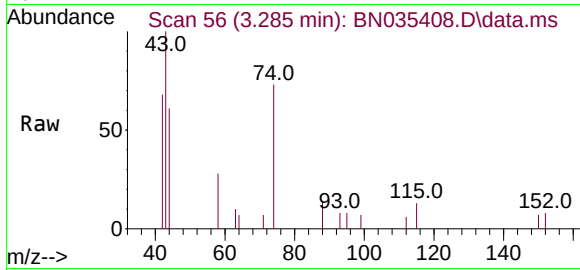




#3  
n-Nitrosodimethylamine  
Concen: 0.392 ng  
RT: 3.285 min Scan# 50  
Delta R.T. -0.007 min  
Lab File: BN035408.D  
Acq: 03 Dec 2024 18:13

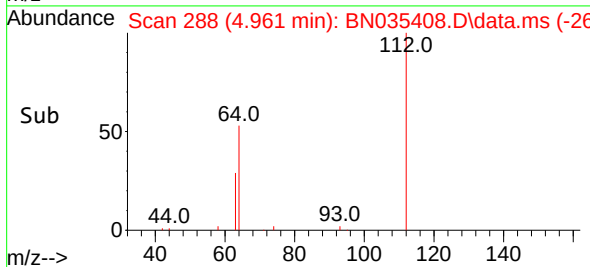
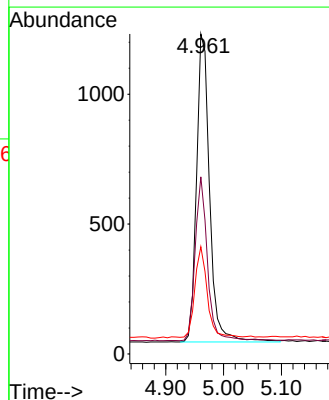
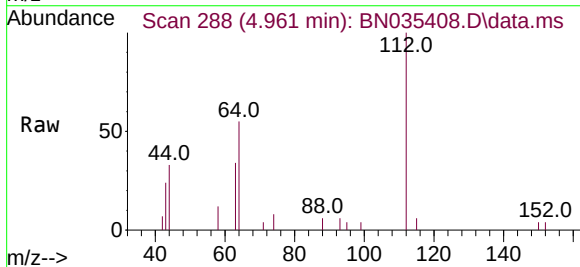
Instrument :  
BNA\_N  
ClientSampleId :  
PB165348BS

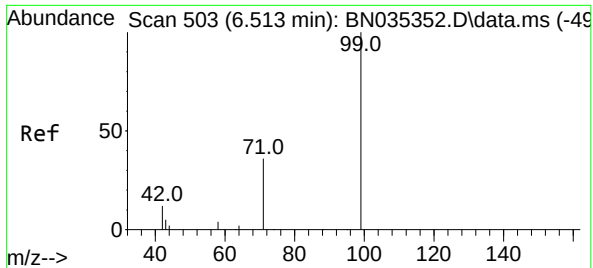
Tgt Ion: 42 Resp: 671  
Ion Ratio Lower Upper  
42 100  
74 158.4 124.9 187.3  
44 14.8 2.2 3.4#



#4  
2-Fluorophenol  
Concen: 0.348 ng  
RT: 4.961 min Scan# 288  
Delta R.T. -0.007 min  
Lab File: BN035408.D  
Acq: 03 Dec 2024 18:13

Tgt Ion: 112 Resp: 1873  
Ion Ratio Lower Upper  
112 100  
64 49.5 39.8 59.8  
63 29.0 21.0 31.6

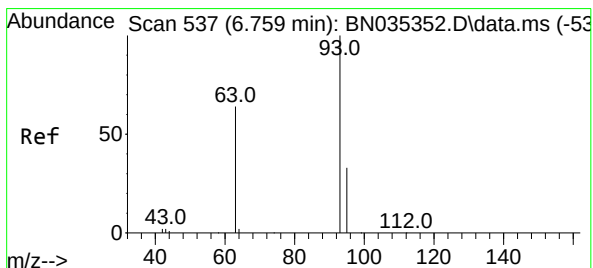
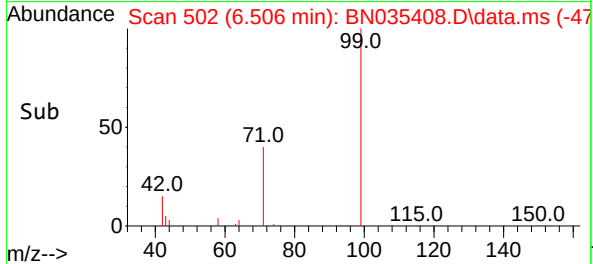
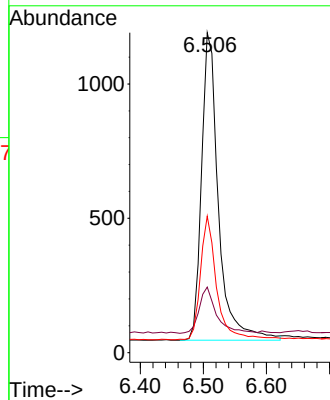
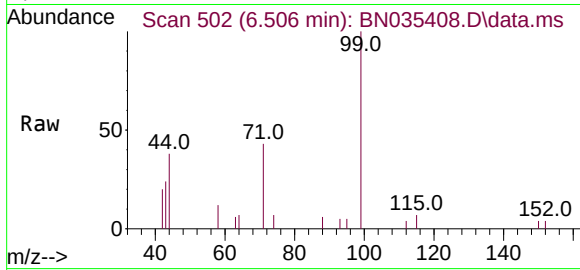




#5  
Phenol-d6  
Concen: 0.329 ng  
RT: 6.506 min Scan# 503  
Delta R.T. -0.007 min  
Lab File: BN035408.D  
Acq: 03 Dec 2024 18:13

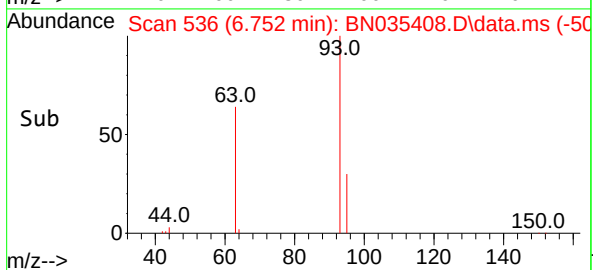
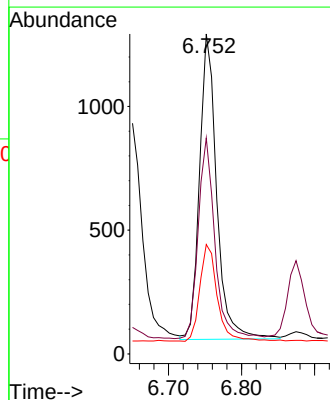
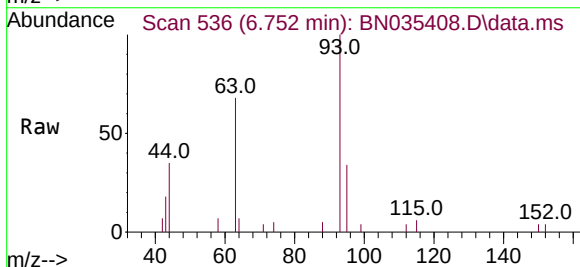
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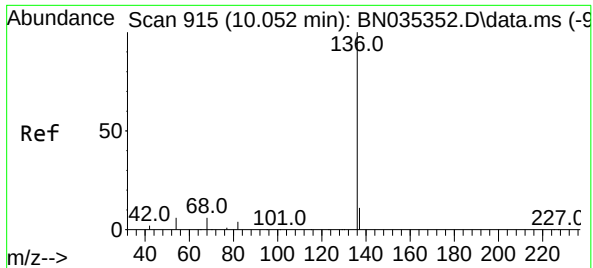
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 99    | Resp: | 2132  |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 15.3  | 11.4  | 17.2  |
| 71       | 38.9  | 29.3  | 43.9  |



#6  
bis(2-Chloroethyl)ether  
Concen: 0.370 ng  
RT: 6.752 min Scan# 536  
Delta R.T. -0.007 min  
Lab File: BN035408.D  
Acq: 03 Dec 2024 18:13

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 93    | Resp: | 2015  |
| Ion      | Ratio | Lower | Upper |
| 93       | 100   |       |       |
| 63       | 63.8  | 50.4  | 75.6  |
| 95       | 32.0  | 25.7  | 38.5  |

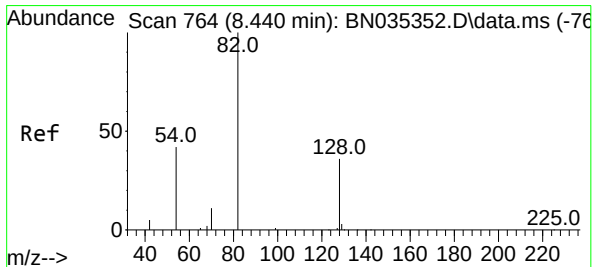
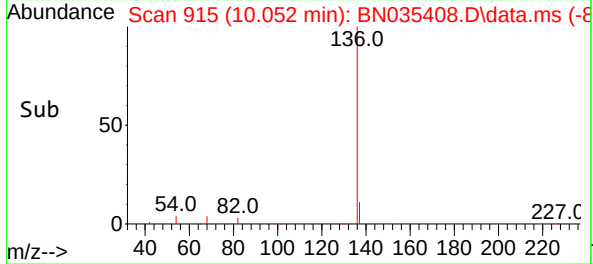
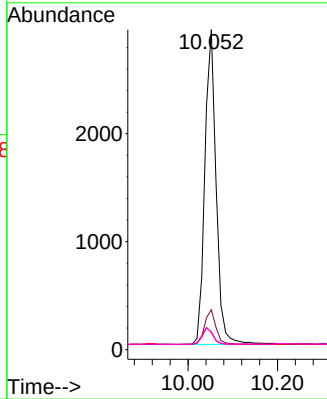
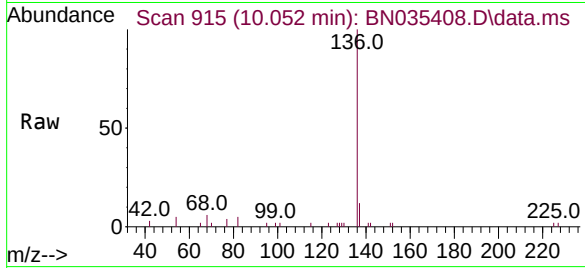




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.052 min Scan# 915  
Delta R.T. 0.000 min  
Lab File: BN035408.D  
Acq: 03 Dec 2024 18:13

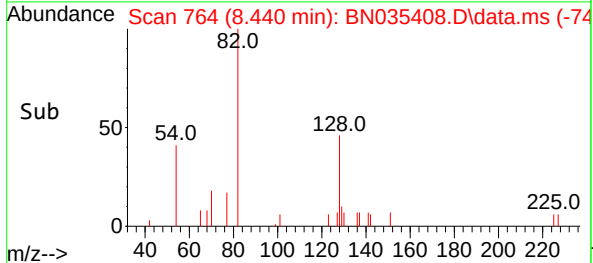
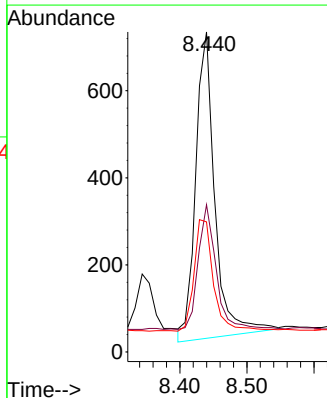
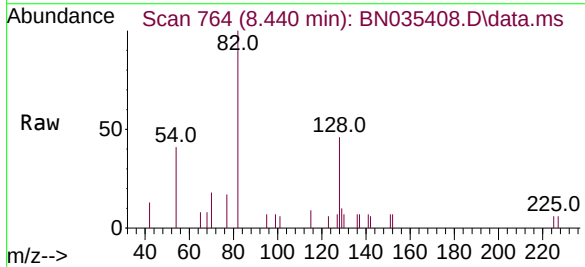
Instrument :  
BNA\_N  
ClientSampleId :  
PB165348BS

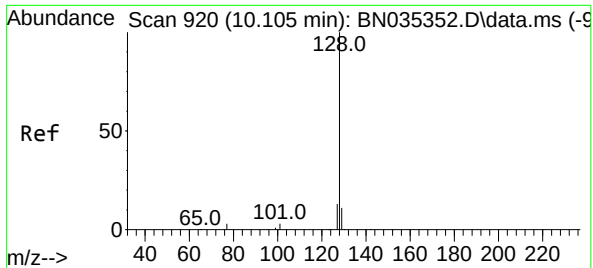
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 5114  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 12.4  | 10.2  | 15.2  |
| 54       | 5.3   | 6.1   | 9.1#  |
| 68       | 5.6   | 6.4   | 9.6#  |



#8  
Nitrobenzene-d5  
Concen: 0.448 ng  
RT: 8.440 min Scan# 764  
Delta R.T. 0.000 min  
Lab File: BN035408.D  
Acq: 03 Dec 2024 18:13

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 1399  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 46.0  | 33.4  | 50.0  |
| 54       | 40.7  | 36.7  | 55.1  |

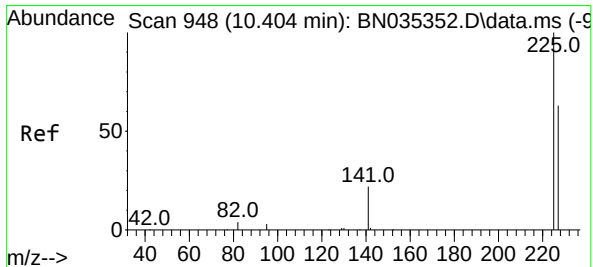
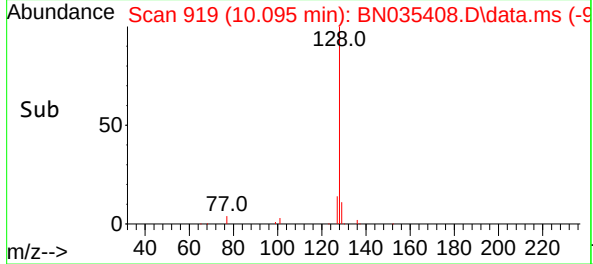
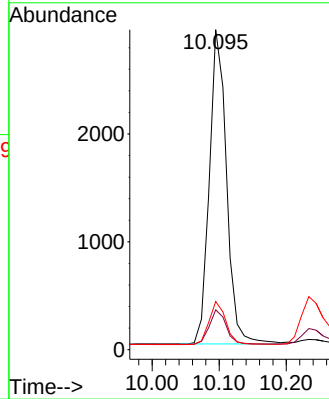
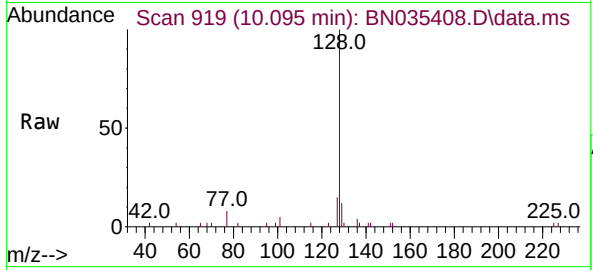




#9  
Naphthalene  
Concen: 0.384 ng  
RT: 10.095 min Scan# 919  
Delta R.T. -0.011 min  
Lab File: BN035408.D  
Acq: 03 Dec 2024 18:13

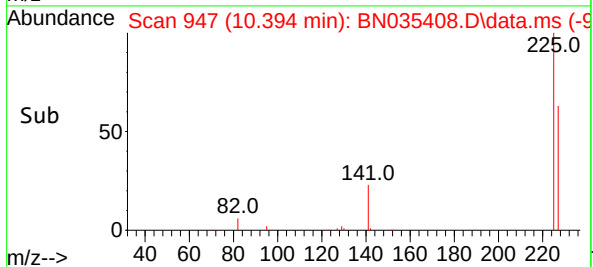
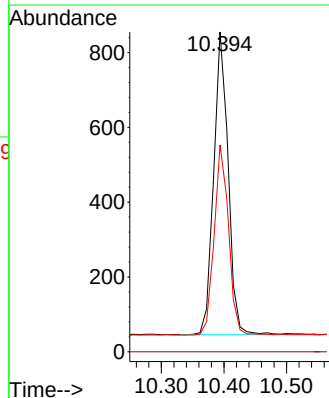
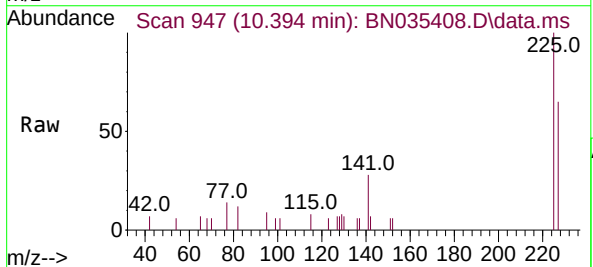
Instrument :  
BNA\_N  
ClientSampleId :  
PB165348BS

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 5182  |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 129      | 12.4  | 9.8   | 14.6  |
| 127      | 15.0  | 11.4  | 17.2  |

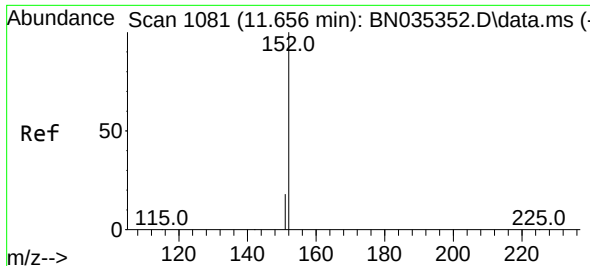


#10  
Hexachlorobutadiene  
Concen: 0.416 ng  
RT: 10.394 min Scan# 947  
Delta R.T. -0.011 min  
Lab File: BN035408.D  
Acq: 03 Dec 2024 18:13

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 225   | Resp: | 1293  |
| Ion      | Ratio | Lower | Upper |
| 225      | 100   |       |       |
| 223      | 0.0   | 0.0   | 0.0   |
| 227      | 63.0  | 51.3  | 76.9  |



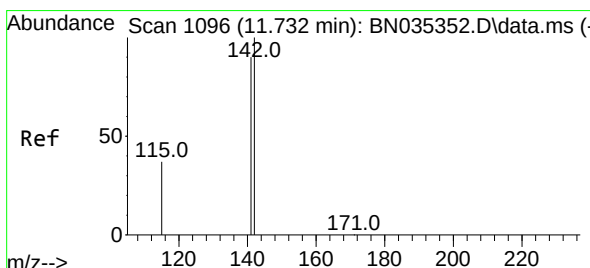
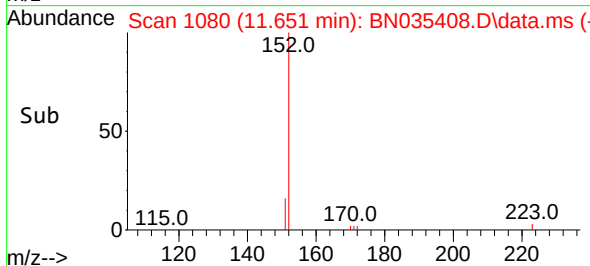
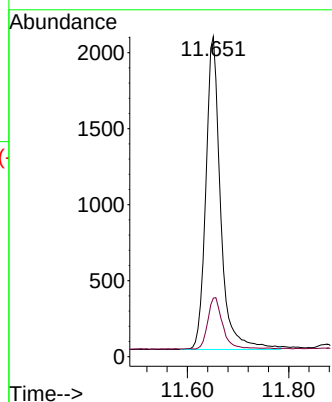
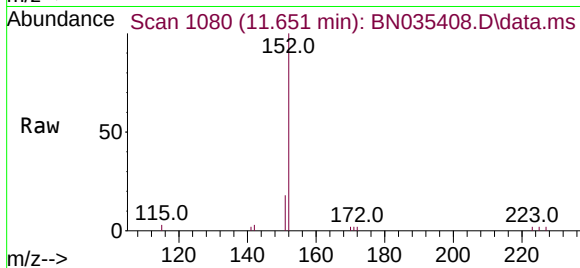




#11  
2-Methylnaphthalene-d10  
Concen: 0.519 ng  
RT: 11.651 min Scan# 1080  
Delta R.T. -0.005 min  
Lab File: BN035408.D  
Acq: 03 Dec 2024 18:13

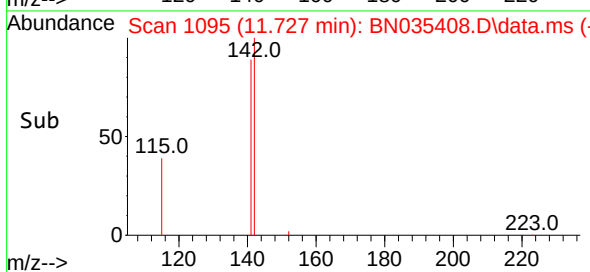
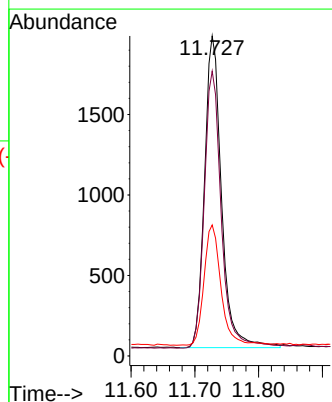
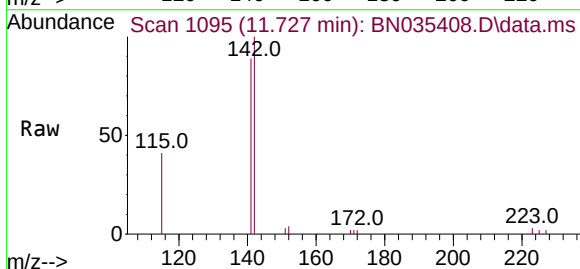
Instrument :  
BNA\_N  
ClientSampleId :  
PB165348BS

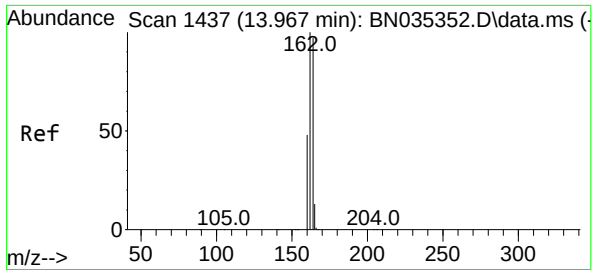
Tgt Ion:152 Resp: 4155  
Ion Ratio Lower Upper  
152 100  
151 16.5 16.6 25.0#



#12  
2-Methylnaphthalene  
Concen: 0.371 ng  
RT: 11.727 min Scan# 1095  
Delta R.T. -0.005 min  
Lab File: BN035408.D  
Acq: 03 Dec 2024 18:13

Tgt Ion:142 Resp: 3585  
Ion Ratio Lower Upper  
142 100  
141 89.0 72.2 108.4  
115 40.9 31.4 47.0

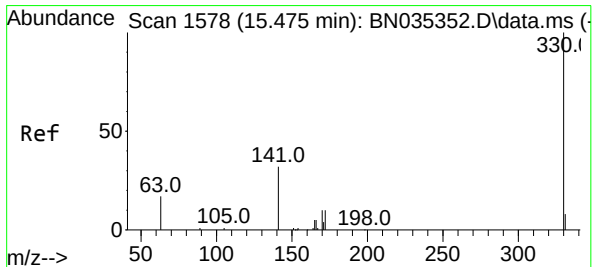
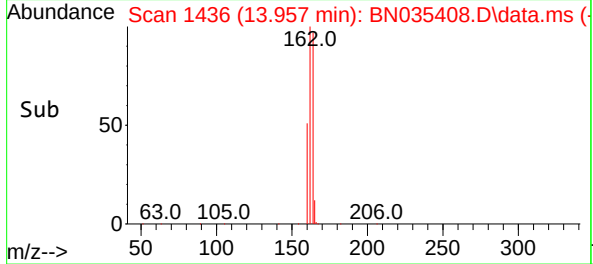
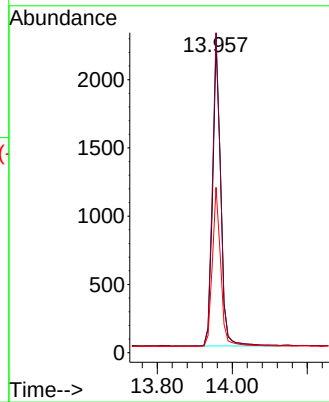
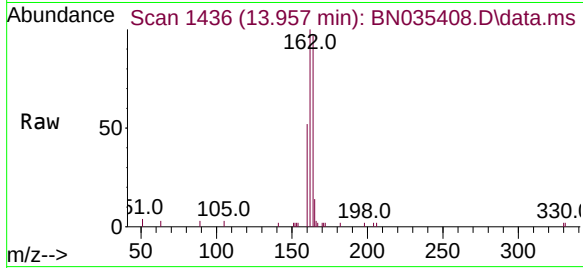




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.957 min Scan# 1437  
Delta R.T. -0.011 min  
Lab File: BN035408.D  
Acq: 03 Dec 2024 18:13

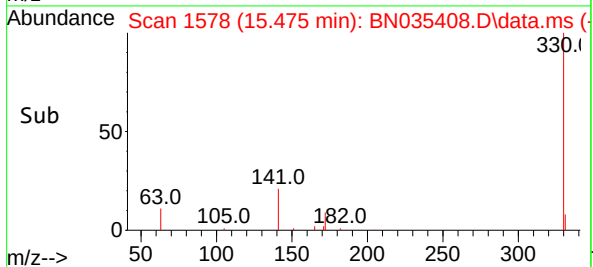
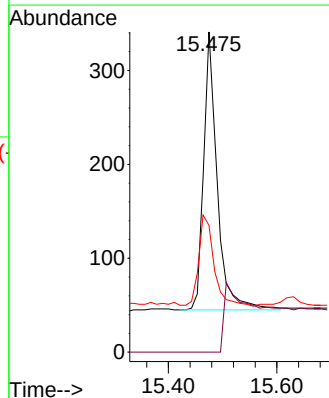
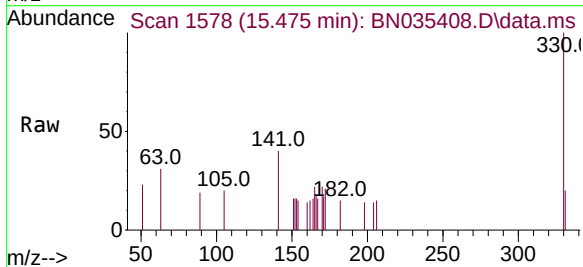
Instrument :  
BNA\_N  
ClientSampleId :  
PB165348BS

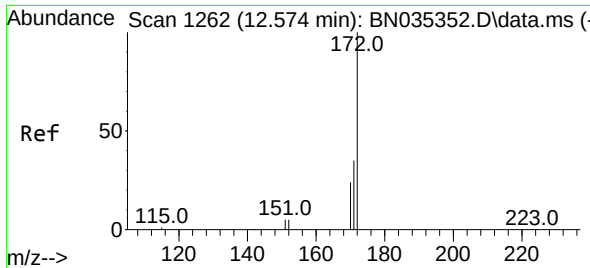
Tgt Ion:164 Resp: 3359  
Ion Ratio Lower Upper  
164 100  
162 103.4 82.2 123.2  
160 53.4 40.1 60.1



#14  
2,4,6-Tribromophenol  
Concen: 0.231 ng  
RT: 15.475 min Scan# 1578  
Delta R.T. 0.000 min  
Lab File: BN035408.D  
Acq: 03 Dec 2024 18:13

Tgt Ion:330 Resp: 550  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 36.0 26.6 40.0

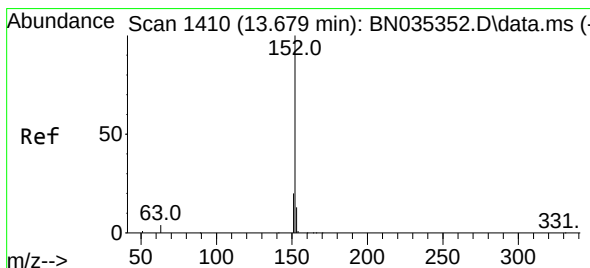
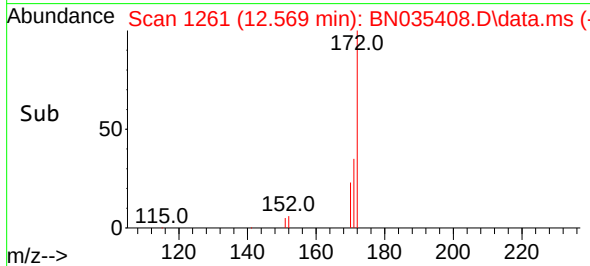
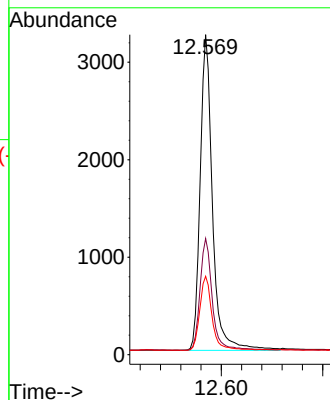
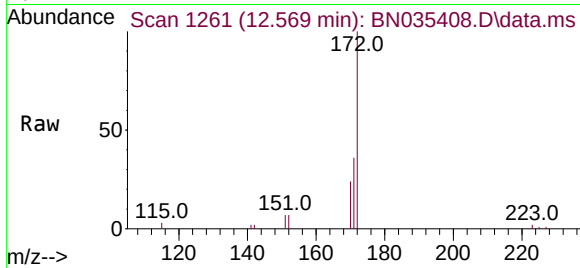




#15  
2-Fluorobiphenyl  
Concen: 0.431 ng  
RT: 12.569 min Scan# 11  
Delta R.T. -0.005 min  
Lab File: BN035408.D  
Acq: 03 Dec 2024 18:13

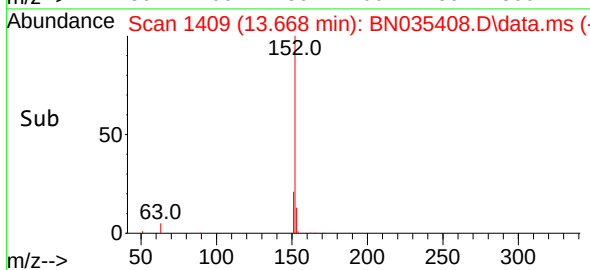
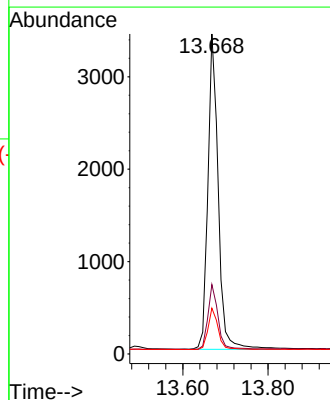
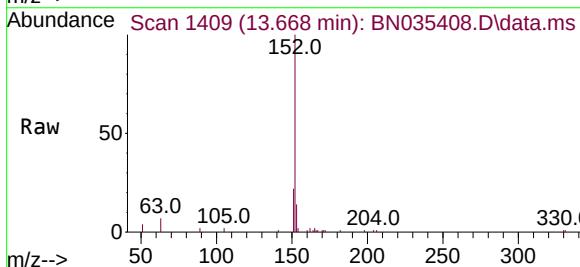
Instrument :  
BNA\_N  
ClientSampleId :  
PB165348BS

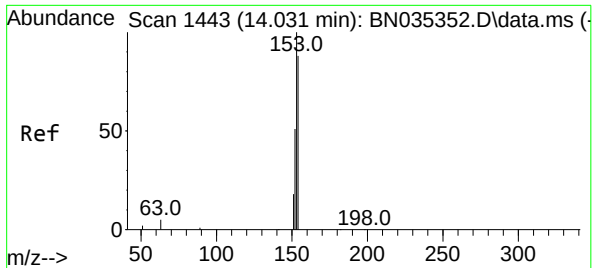
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 172   | Resp: | 5473  |
| Ion      | Ratio | Lower | Upper |
| 172      | 100   |       |       |
| 171      | 36.3  | 29.0  | 43.4  |
| 170      | 24.5  | 19.8  | 29.8  |



#16  
Acenaphthylene  
Concen: 0.406 ng  
RT: 13.668 min Scan# 1409  
Delta R.T. -0.011 min  
Lab File: BN035408.D  
Acq: 03 Dec 2024 18:13

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 152   | Resp: | 5729  |
| Ion      | Ratio | Lower | Upper |
| 152      | 100   |       |       |
| 151      | 19.9  | 16.2  | 24.2  |
| 153      | 12.8  | 10.4  | 15.6  |

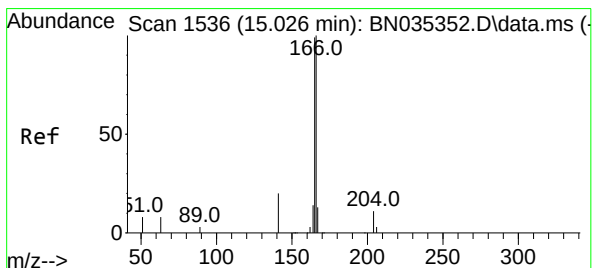
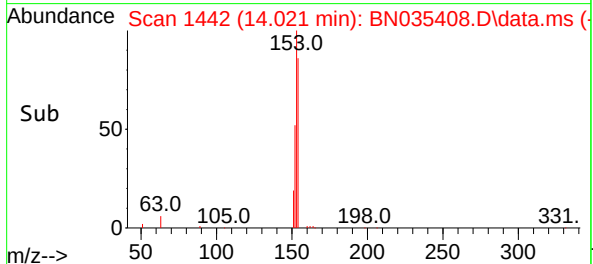
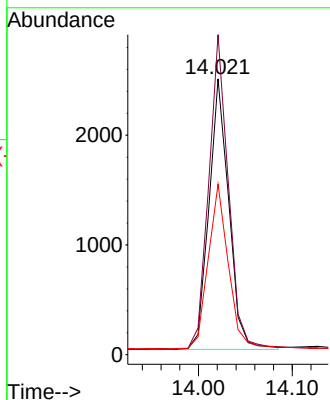
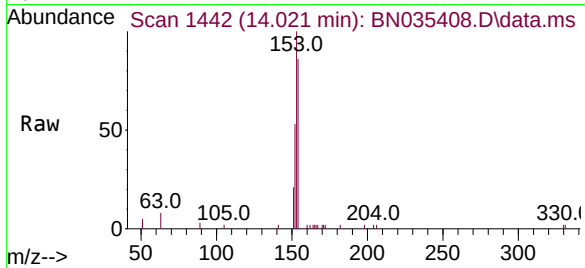




#17  
Acenaphthene  
Concen: 0.389 ng  
RT: 14.021 min Scan# 1442  
Delta R.T. -0.011 min  
Lab File: BN035408.D  
Acq: 03 Dec 2024 18:13

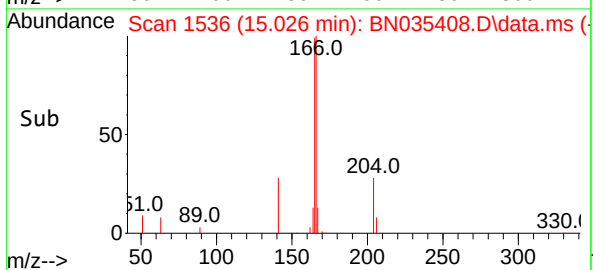
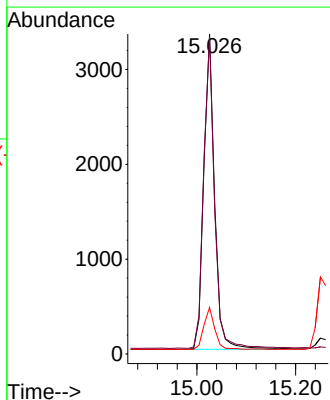
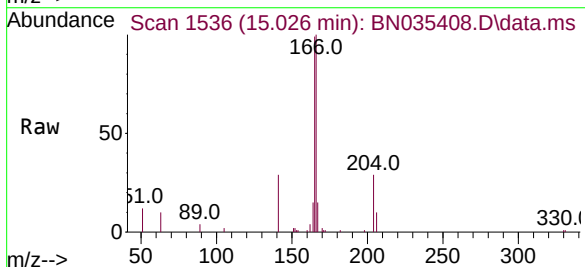
Instrument :  
BNA\_N  
ClientSampleId :  
PB165348BS

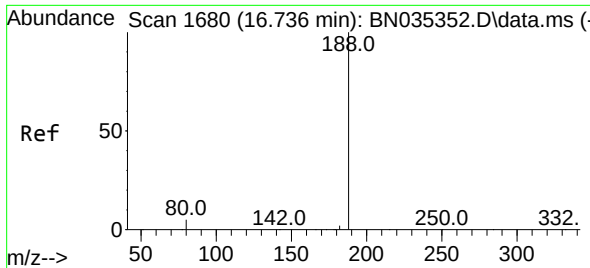
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 116.8 | 92.6  | 139.0 |
| 152     | 62.3  | 49.0  | 73.6  |



#18  
Fluorene  
Concen: 0.377 ng  
RT: 15.026 min Scan# 1536  
Delta R.T. 0.000 min  
Lab File: BN035408.D  
Acq: 03 Dec 2024 18:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 99.2  | 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: BN035408.D

Acq: 03 Dec 2024 18:13

Instrument :

BNA\_N

ClientSampleId :

PB165348BS

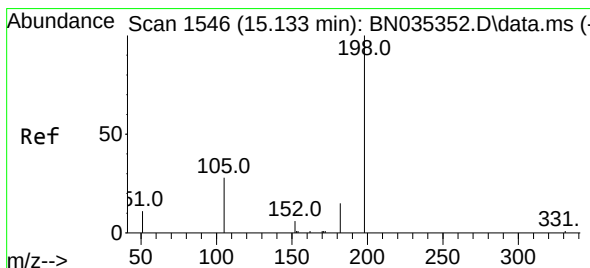
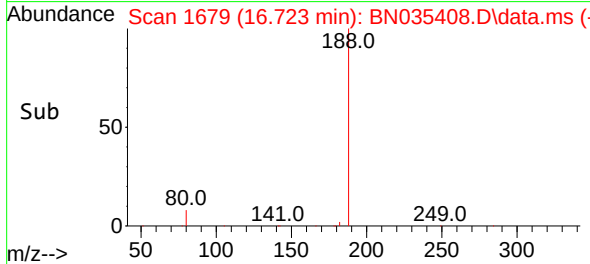
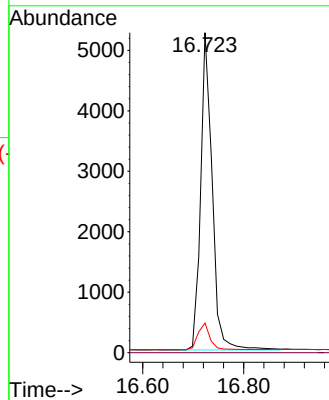
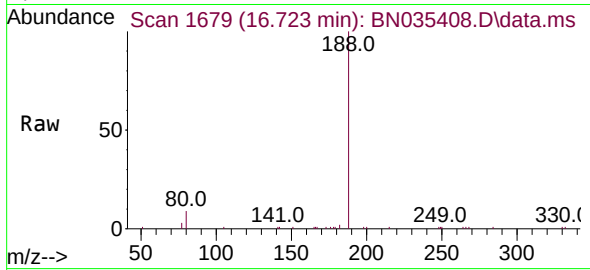
Tgt Ion:188 Resp: 8334

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: 0.325 ng

RT: 15.133 min Scan# 1546

Delta R.T. -0.000 min

Lab File: BN035408.D

Acq: 03 Dec 2024 18:13

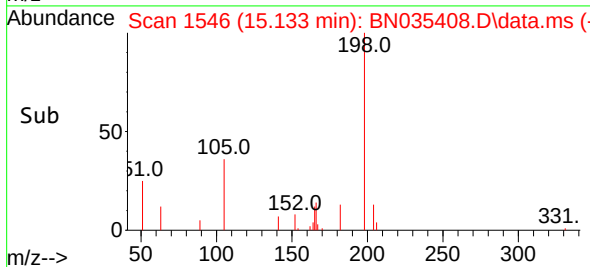
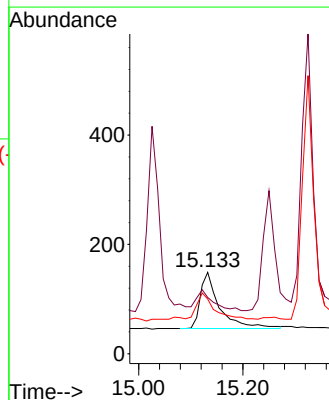
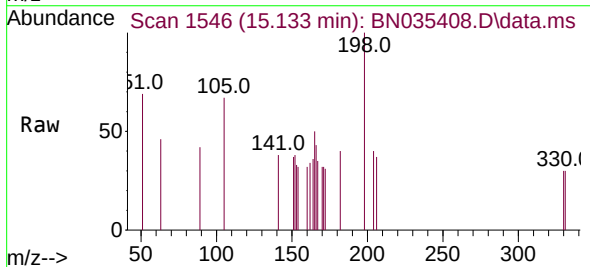
Tgt Ion:198 Resp: 266

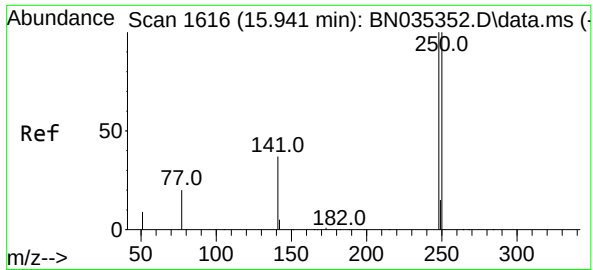
Ion Ratio Lower Upper

198 100

51 69.1 46.5 69.7

105 67.1 45.3 67.9

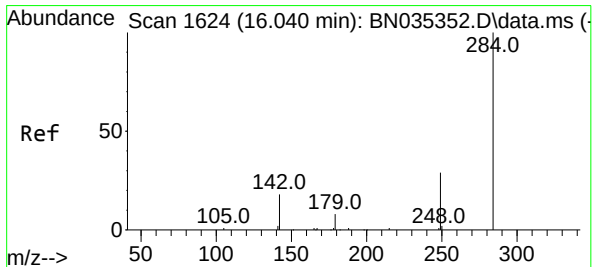
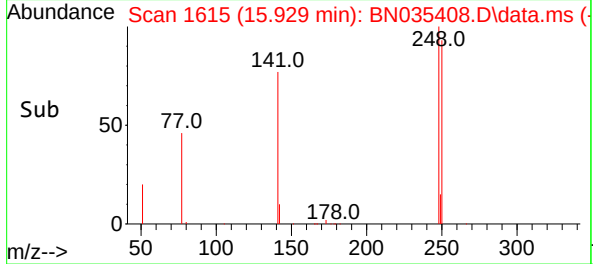
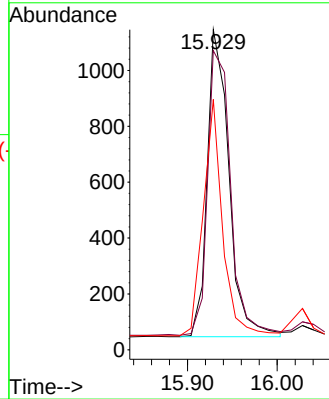
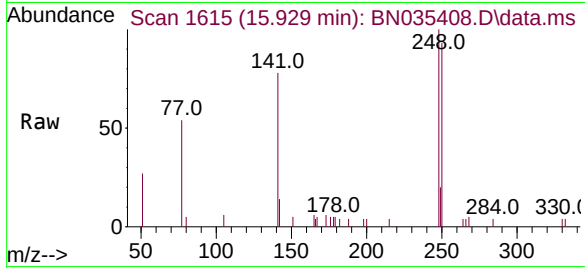




#21  
4-Bromophenyl-phenylether  
Concen: 0.381 ng  
RT: 15.929 min Scan# 1615  
Delta R.T. -0.012 min  
Lab File: BN035408.D  
Acq: 03 Dec 2024 18:13

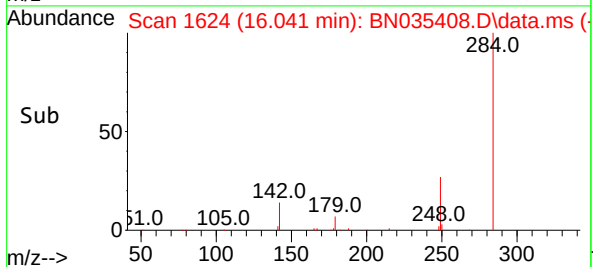
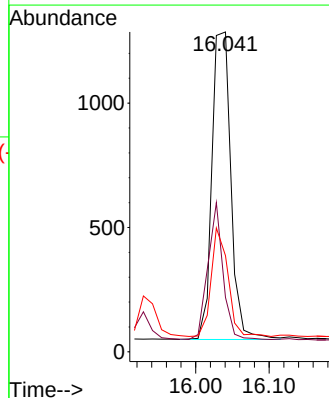
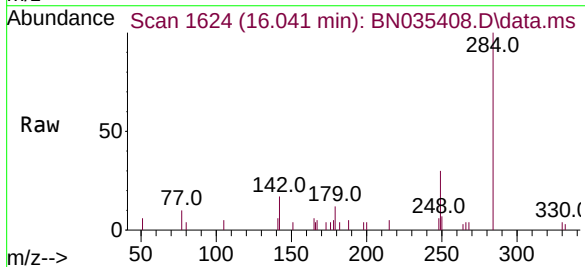
Instrument :  
BNA\_N  
ClientSampleId :  
PB165348BS

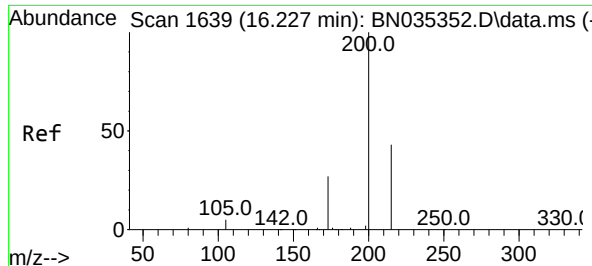
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 248     | 100   |       |       |
| 250     | 93.5  | 80.6  | 120.8 |
| 141     | 78.2  | 31.5  | 47.3  |



#22  
Hexachlorobenzene  
Concen: 0.388 ng  
RT: 16.041 min Scan# 1624  
Delta R.T. 0.000 min  
Lab File: BN035408.D  
Acq: 03 Dec 2024 18:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 284     | 100   |       |       |
| 142     | 35.5  | 26.7  | 40.1  |
| 249     | 31.3  | 24.6  | 36.8  |

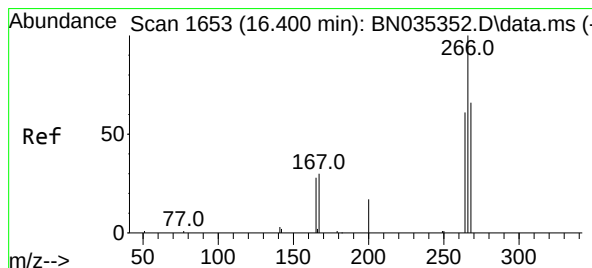
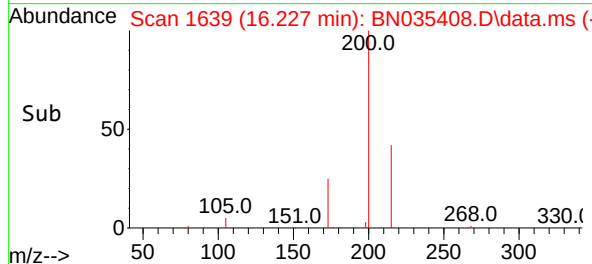
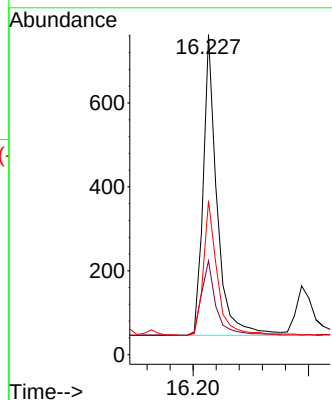
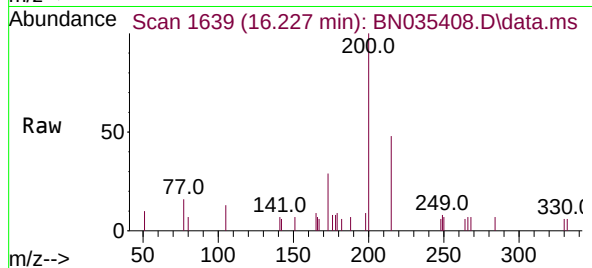




#23  
Atrazine  
Concen: 0.344 ng  
RT: 16.227 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: BN035408.D  
Acq: 03 Dec 2024 18:13

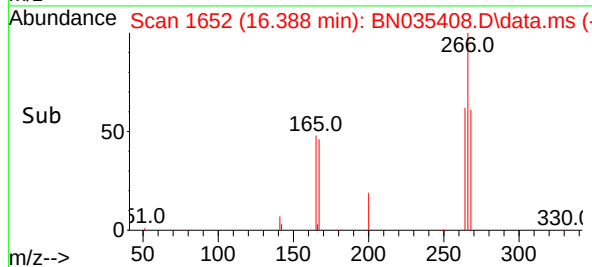
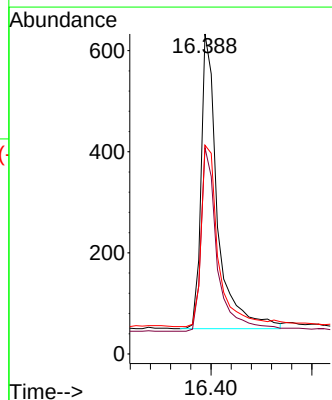
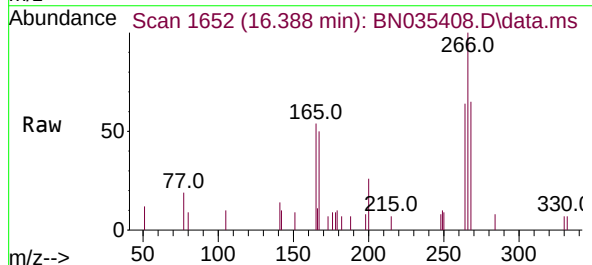
Instrument :  
BNA\_N  
ClientSampleId :  
PB165348BS

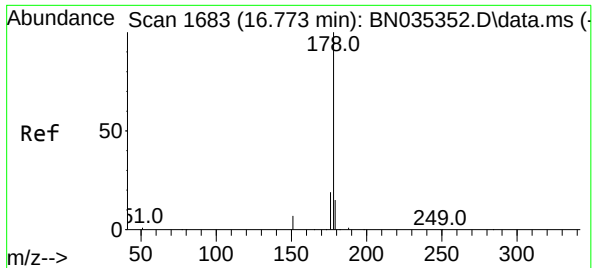
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 200     | 100   |       |       |
| 173     | 29.4  | 24.1  | 36.1  |
| 215     | 48.1  | 36.9  | 55.3  |



#24  
Pentachlorophenol  
Concen: 0.533 ng  
RT: 16.388 min Scan# 1652  
Delta R.T. -0.012 min  
Lab File: BN035408.D  
Acq: 03 Dec 2024 18:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 266     | 100   |       |       |
| 264     | 61.8  | 42.3  | 63.5  |
| 268     | 65.1  | 43.3  | 64.9  |

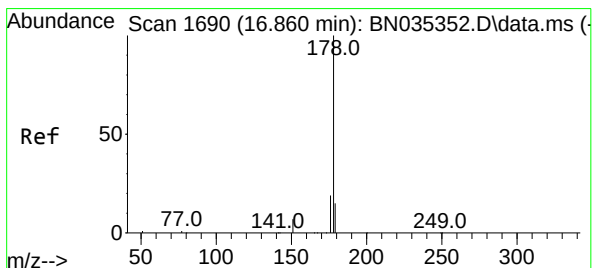
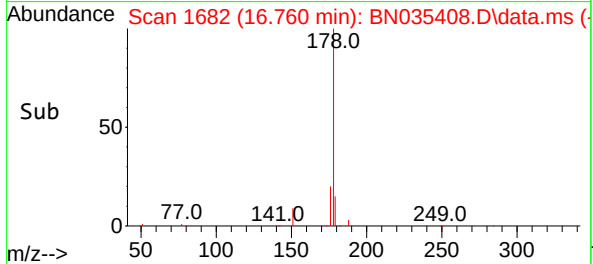
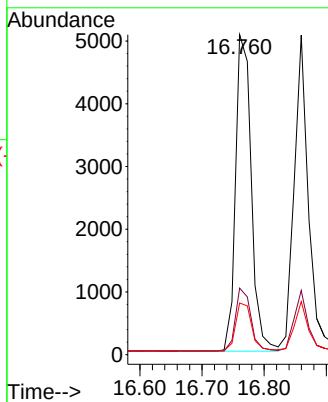
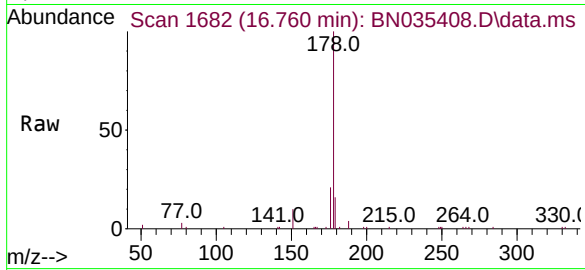




#25  
Phenanthrene  
Concen: 0.389 ng  
RT: 16.760 min Scan# 1682  
Delta R.T. -0.012 min  
Lab File: BN035408.D  
Acq: 03 Dec 2024 18:13

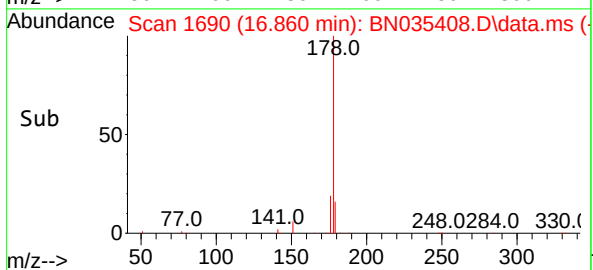
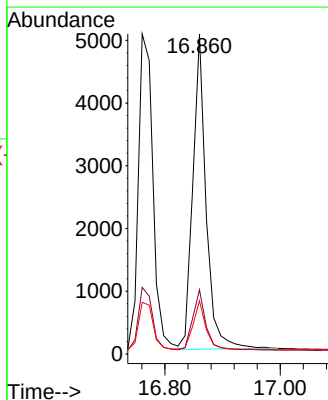
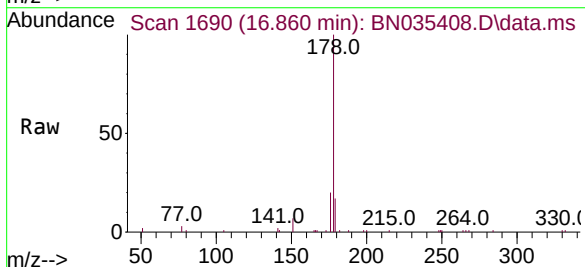
Instrument :  
BNA\_N  
ClientSampleId :  
PB165348BS

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.4  | 15.4  | 23.2  |
| 179     | 15.3  | 12.3  | 18.5  |

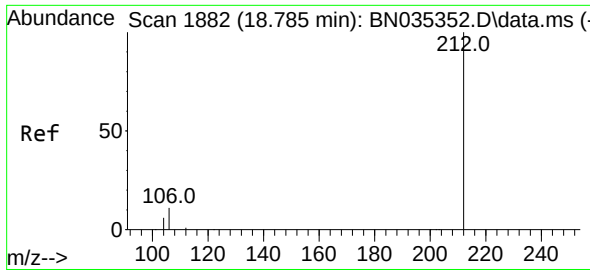


#26  
Anthracene  
Concen: 0.388 ng  
RT: 16.860 min Scan# 1690  
Delta R.T. 0.000 min  
Lab File: BN035408.D  
Acq: 03 Dec 2024 18:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.1  | 15.0  | 22.6  |
| 179     | 15.3  | 12.6  | 18.8  |







#27

Fluoranthene-d10

Concen: 0.398 ng

RT: 18.780 min Scan# 1881

Delta R.T. -0.005 min

Lab File: BN035408.D

Acq: 03 Dec 2024 18:13

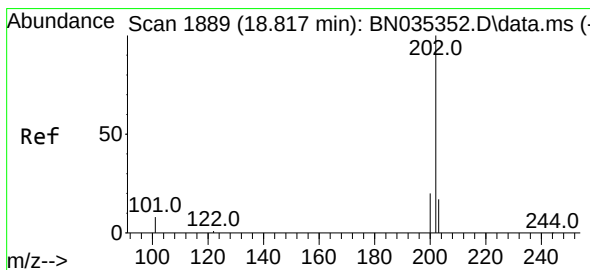
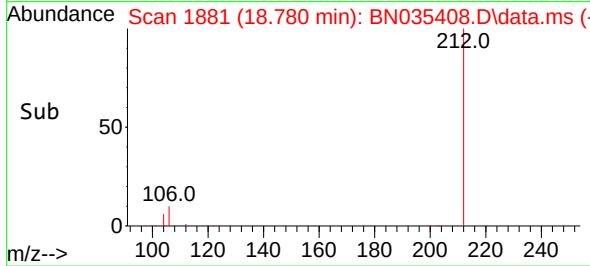
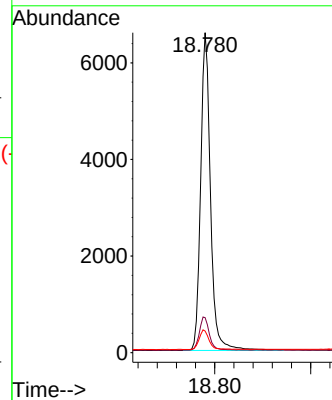
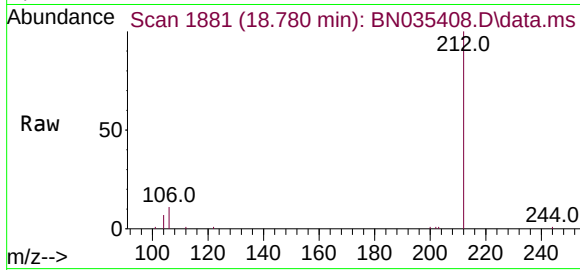
Instrument :

BNA\_N

ClientSampleId :

PB165348BS

|             |       |          |
|-------------|-------|----------|
| Tgt Ion:212 | Resp: | 9414     |
| Ion Ratio   | Lower | Upper    |
| 212         | 100   |          |
| 106         | 10.6  | 9.2 13.8 |
| 104         | 6.2   | 5.3 7.9  |



#28

Fluoranthene

Concen: 0.347 ng

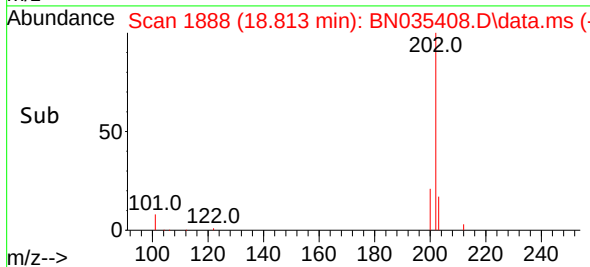
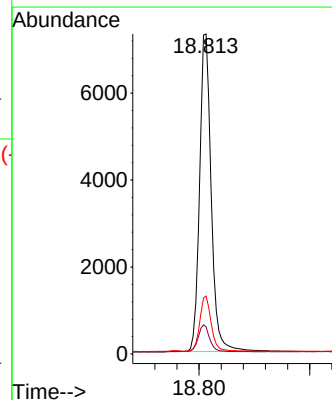
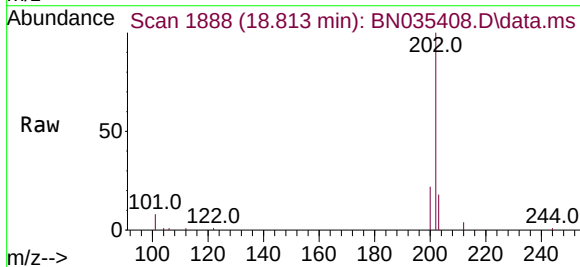
RT: 18.813 min Scan# 1888

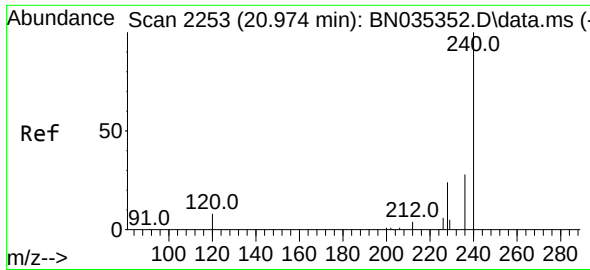
Delta R.T. -0.005 min

Lab File: BN035408.D

Acq: 03 Dec 2024 18:13

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:202 | Resp: | 10698     |
| Ion Ratio   | Lower | Upper     |
| 202         | 100   |           |
| 101         | 8.5   | 7.4 11.0  |
| 203         | 16.9  | 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: BN035408.D

Acq: 03 Dec 2024 18:13

Instrument :

BNA\_N

ClientSampleId :

PB165348BS

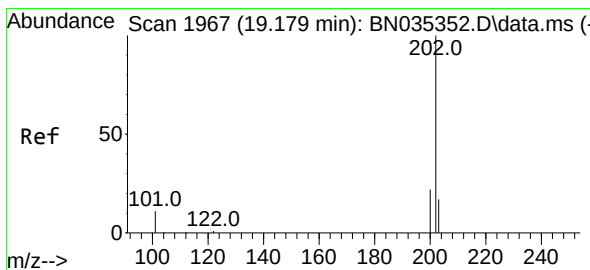
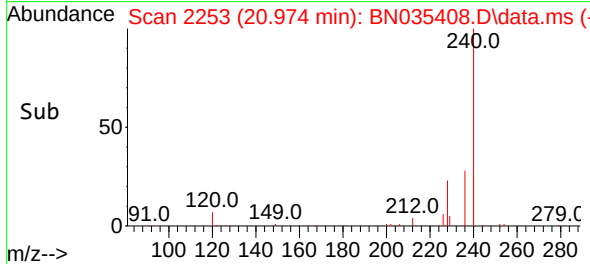
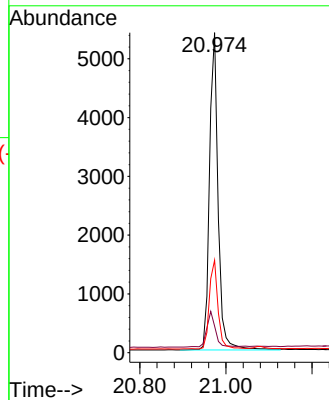
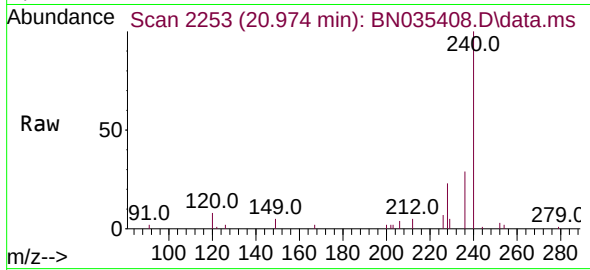
Tgt Ion:240 Resp: 7507

Ion Ratio Lower Upper

240 100

120 8.3 7.9 11.9

236 28.9 22.9 34.3



#30

Pyrene

Concen: 0.397 ng

RT: 19.180 min Scan# 1967

Delta R.T. 0.000 min

Lab File: BN035408.D

Acq: 03 Dec 2024 18:13

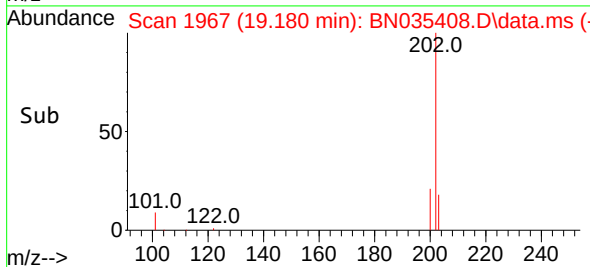
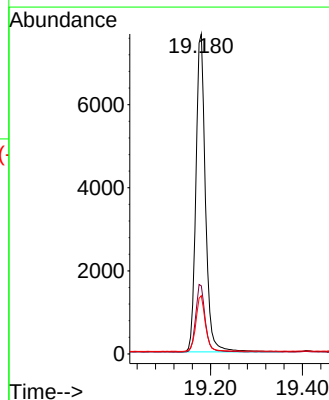
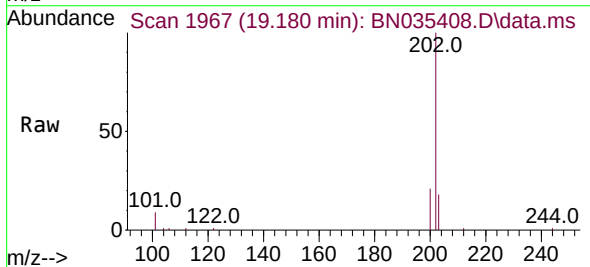
Tgt Ion:202 Resp: 10998

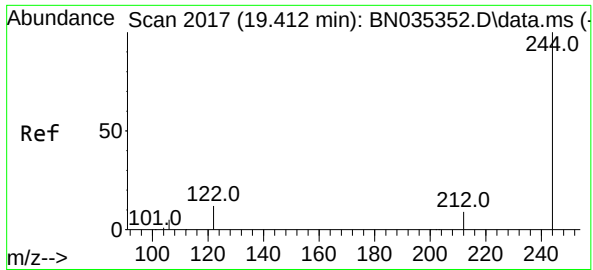
Ion Ratio Lower Upper

202 100

200 21.1 17.0 25.4

203 17.5 14.3 21.5

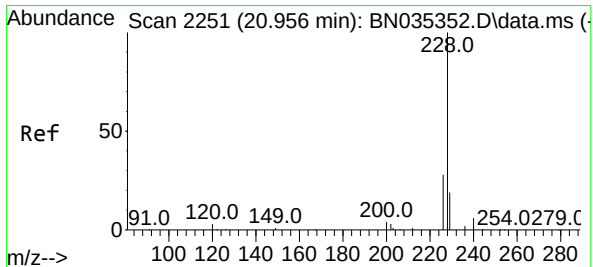
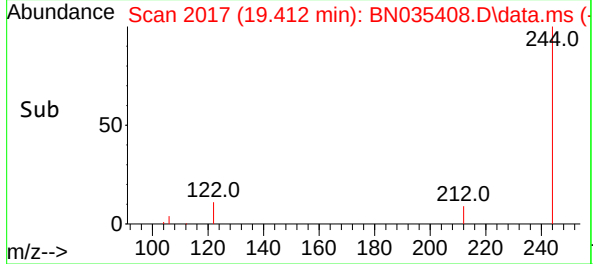
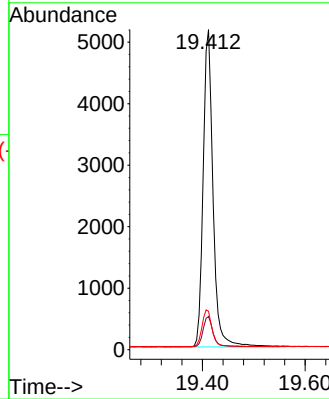
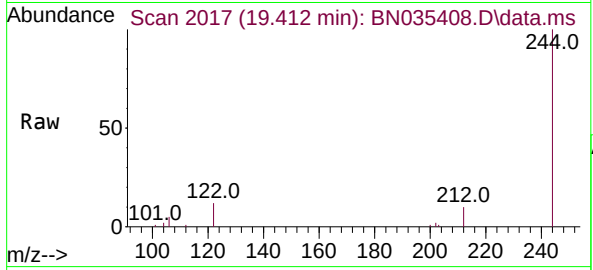




#31  
Terphenyl-d14  
Concen: 0.464 ng  
RT: 19.412 min Scan# 2017  
Delta R.T. 0.000 min  
Lab File: BN035408.D  
Acq: 03 Dec 2024 18:13

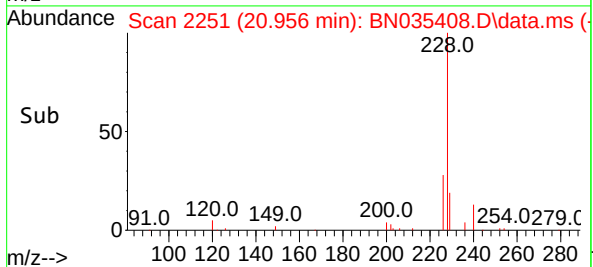
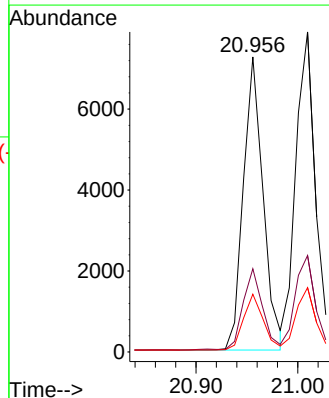
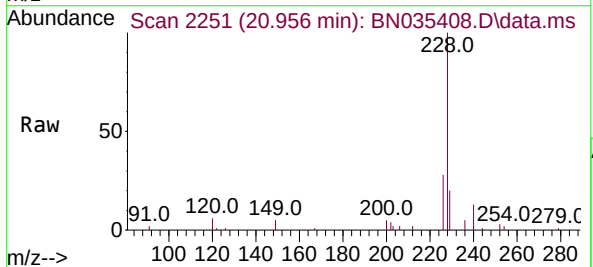
Instrument :  
BNA\_N  
ClientSampleId :  
PB165348BS

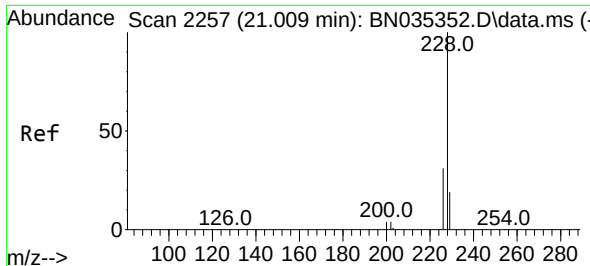
Tgt Ion:244 Resp: 6867  
Ion Ratio Lower Upper  
244 100  
212 10.4 8.1 12.1  
122 12.0 10.3 15.5



#32  
Benzo(a)anthracene  
Concen: 0.373 ng  
RT: 20.956 min Scan# 2251  
Delta R.T. 0.000 min  
Lab File: BN035408.D  
Acq: 03 Dec 2024 18:13

Tgt Ion:228 Resp: 9786  
Ion Ratio Lower Upper  
228 100  
226 28.2 22.5 33.7  
229 19.6 15.8 23.8

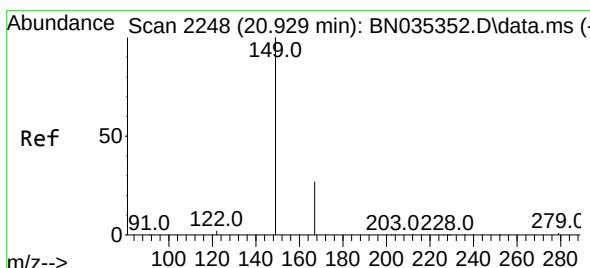
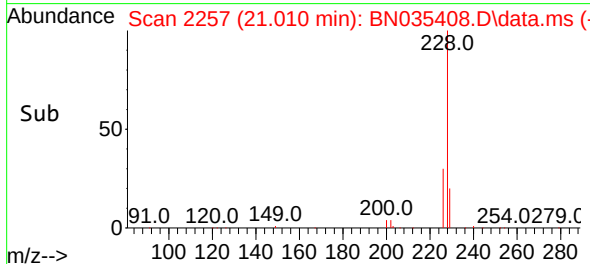
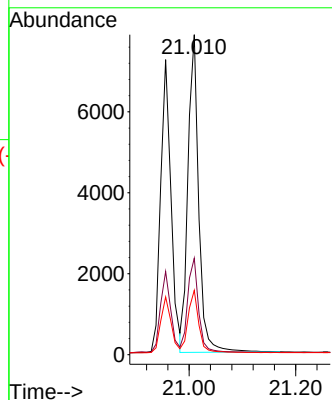
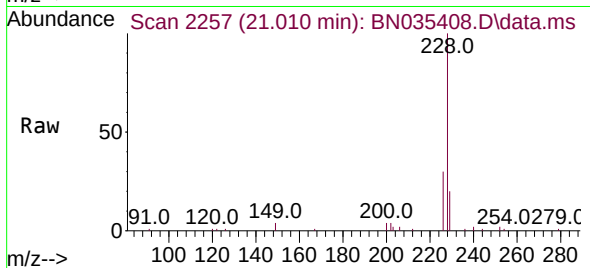




#33  
Chrysene  
Concen: 0.406 ng  
RT: 21.010 min Scan# 210  
Delta R.T. 0.000 min  
Lab File: BN035408.D  
Acq: 03 Dec 2024 18:13

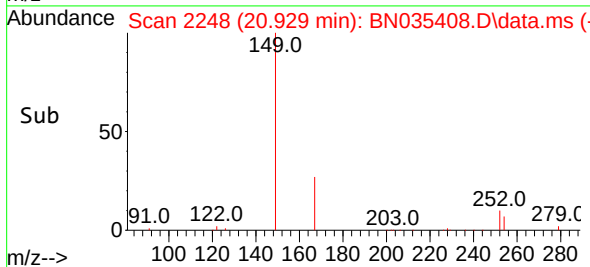
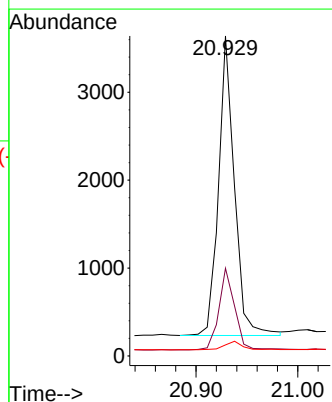
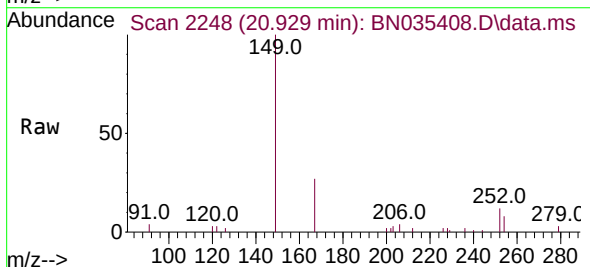
Instrument :  
BNA\_N  
ClientSampleId :  
PB165348BS

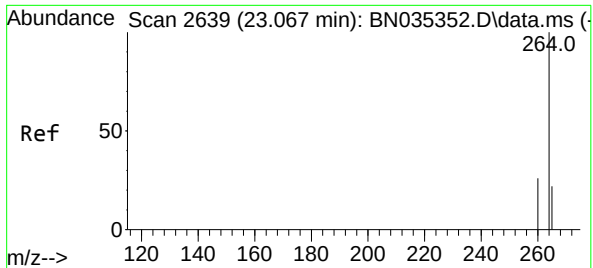
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.1  | 24.6  | 37.0  |
| 229     | 20.1  | 15.9  | 23.9  |



#34  
Bis(2-ethylhexyl)phthalate  
Concen: 0.357 ng  
RT: 20.929 min Scan# 2248  
Delta R.T. 0.000 min  
Lab File: BN035408.D  
Acq: 03 Dec 2024 18:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 27.2  | 22.2  | 33.4  |
| 279     | 3.3   | 2.7   | 4.1   |

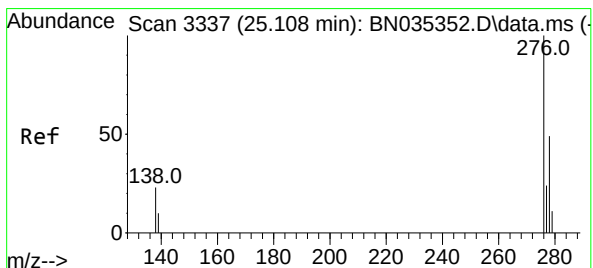
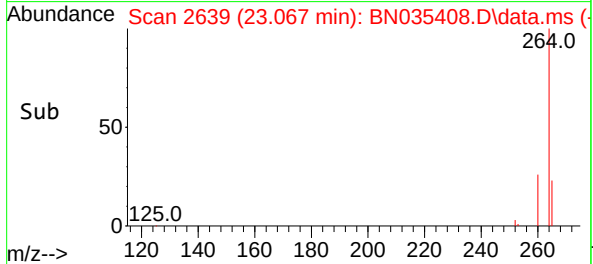
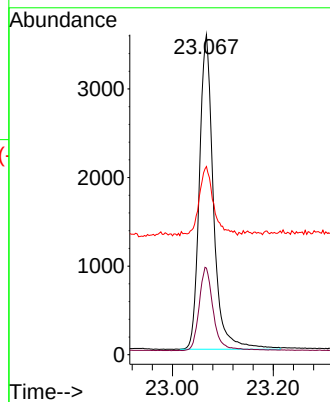
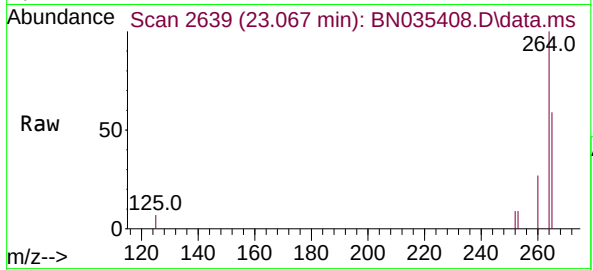




#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.067 min Scan# 20  
Delta R.T. 0.000 min  
Lab File: BN035408.D  
Acq: 03 Dec 2024 18:13

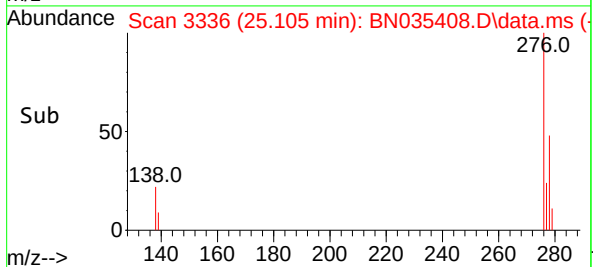
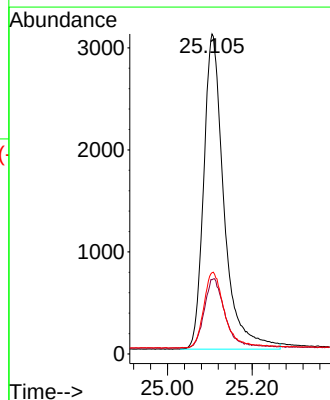
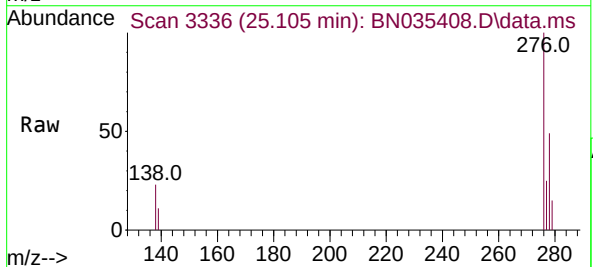
Instrument :  
BNA\_N  
ClientSampleId :  
PB165348BS

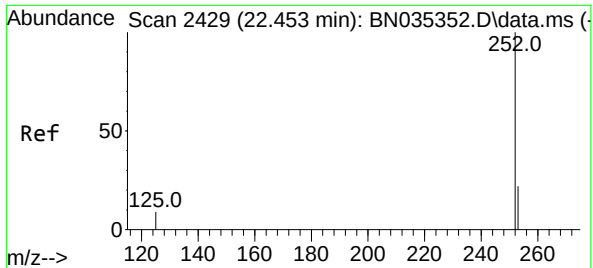
Tgt Ion:264 Resp: 6897  
Ion Ratio Lower Upper  
264 100  
260 27.1 21.4 32.2  
265 58.8 40.2 60.4



#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.381 ng  
RT: 25.105 min Scan# 3336  
Delta R.T. -0.003 min  
Lab File: BN035408.D  
Acq: 03 Dec 2024 18:13

Tgt Ion:276 Resp: 10275  
Ion Ratio Lower Upper  
276 100  
138 22.2 19.4 29.0  
277 24.3 19.8 29.6

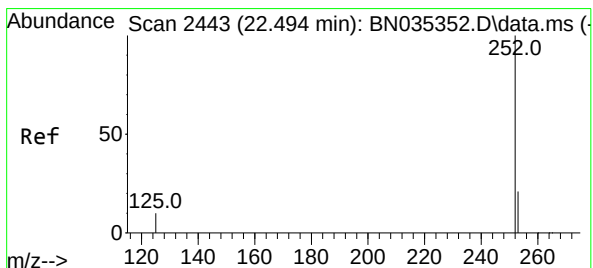
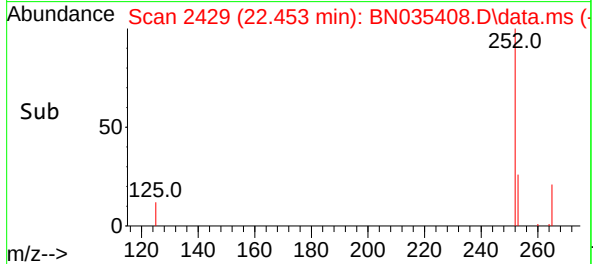
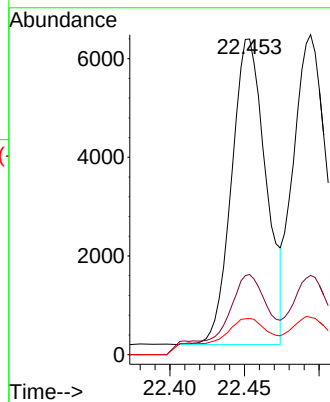
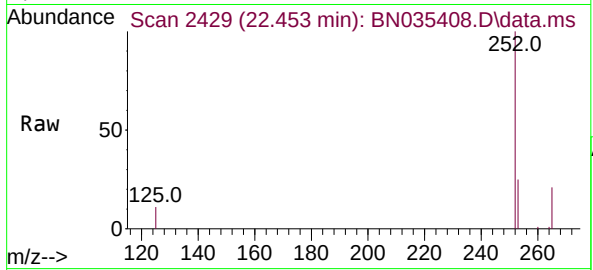




#37  
Benzo(b)fluoranthene  
Concen: 0.393 ng  
RT: 22.453 min Scan# 2429  
Delta R.T. 0.000 min  
Lab File: BN035408.D  
Acq: 03 Dec 2024 18:13

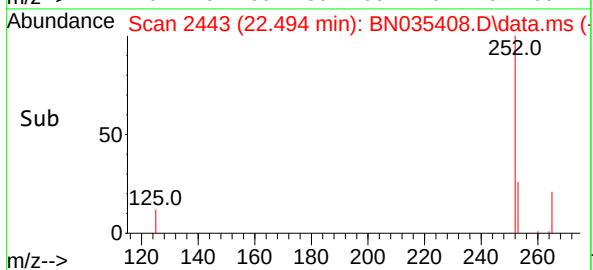
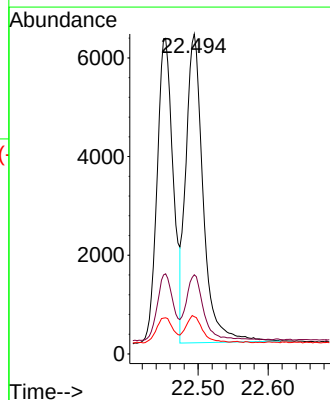
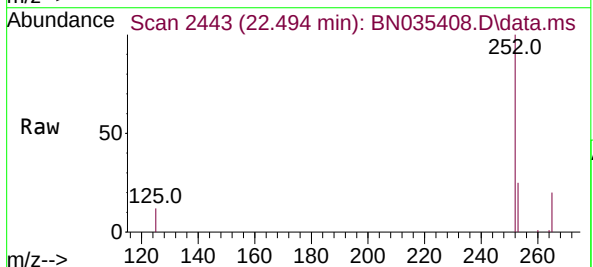
Instrument :  
BNA\_N  
ClientSampleId :  
PB165348BS

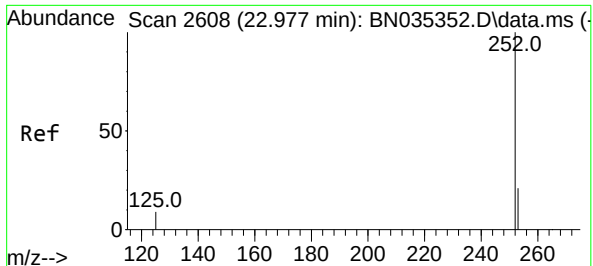
Tgt Ion:252 Resp: 9922  
Ion Ratio Lower Upper  
252 100  
253 25.4 19.6 29.4  
125 11.5 9.6 14.4



#38  
Benzo(k)fluoranthene  
Concen: 0.432 ng  
RT: 22.494 min Scan# 2443  
Delta R.T. 0.000 min  
Lab File: BN035408.D  
Acq: 03 Dec 2024 18:13

Tgt Ion:252 Resp: 10718  
Ion Ratio Lower Upper  
252 100  
253 24.7 19.5 29.3  
125 11.6 10.2 15.4





#39

Benzo(a)pyrene

Concen: 0.423 ng

RT: 22.977 min Scan# 2

Delta R.T. 0.000 min

Lab File: BN035408.D

Acq: 03 Dec 2024 18:13

Instrument :

BNA\_N

ClientSampleId :

PB165348BS

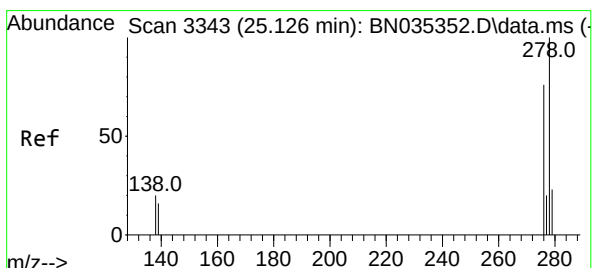
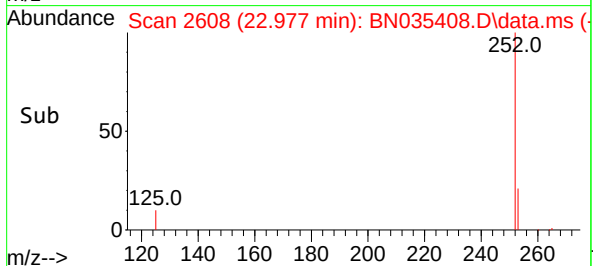
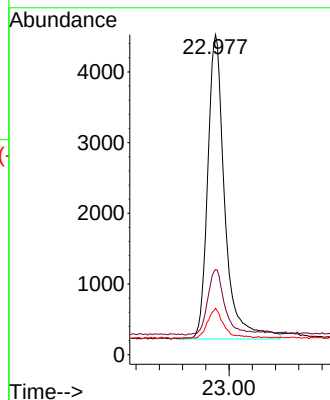
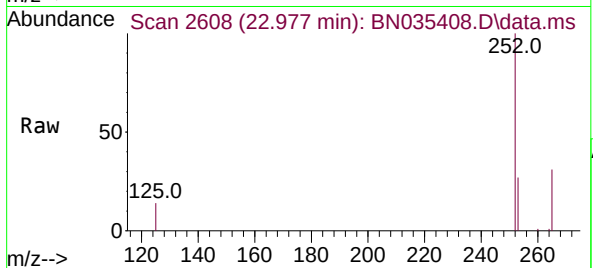
Tgt Ion:252 Resp: 8783

Ion Ratio Lower Upper

252 100

253 26.6 20.2 30.4

125 14.5 10.9 16.3



#40

Dibenzo(a,h)anthracene

Concen: 0.372 ng

RT: 25.123 min Scan# 3342

Delta R.T. -0.003 min

Lab File: BN035408.D

Acq: 03 Dec 2024 18:13

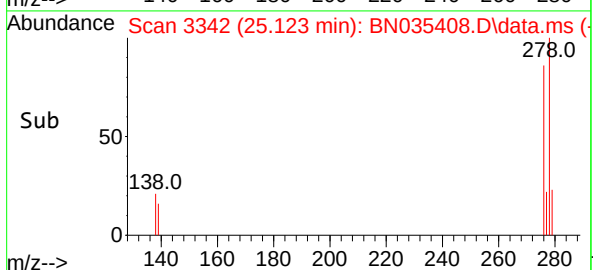
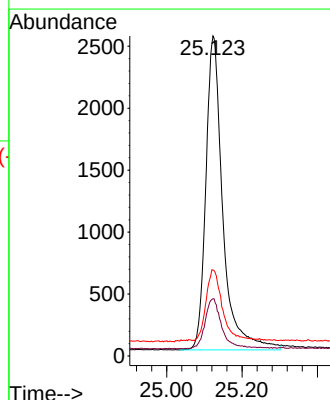
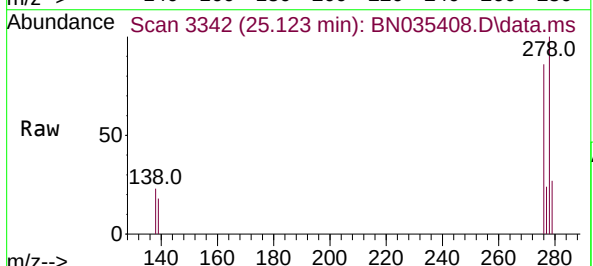
Tgt Ion:278 Resp: 7917

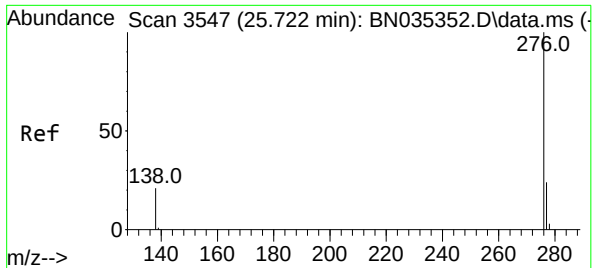
Ion Ratio Lower Upper

278 100

139 17.9 14.2 21.4

279 26.9 20.5 30.7





#41

Benzo(g,h,i)perylene

Concen: 0.373 ng

RT: 25.719 min Scan# 31

Delta R.T. -0.003 min

Lab File: BN035408.D

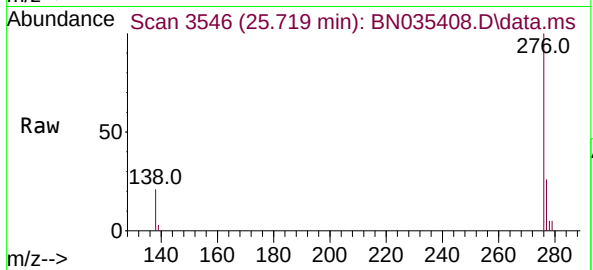
Acq: 03 Dec 2024 18:13

Instrument :

BNA\_N

ClientSampleId :

PB165348BS



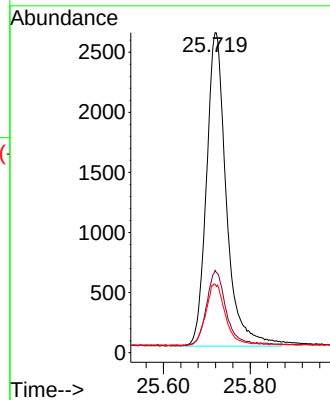
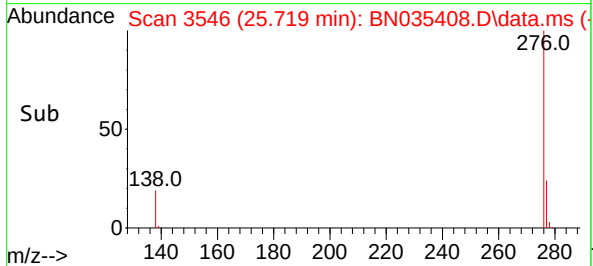
Tgt Ion:276 Resp: 8299

Ion Ratio Lower Upper

276 100

277 25.7 19.9 29.9

138 21.4 17.8 26.8





## Report of Analysis

|                    |                        |                 |                   |
|--------------------|------------------------|-----------------|-------------------|
| Client:            | Tetra Tech NUS, Inc.   | Date Collected: |                   |
| Project:           | CTO WE13               | Date Received:  |                   |
| Client Sample ID:  | PB165348BSD            | SDG No.:        | P5065             |
| Lab Sample ID:     | PB165348BSD            | Matrix:         | Water             |
| Analytical Method: | SW8270SIM              | % 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 :      | SW3510C                |                 |                   |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BN035409.D        | 1         | 12/03/24 12:30 | 12/03/24 18:48 | PB165348      |

| CAS Number                | Parameter               | Conc. | Qualifier | MDL      | LOD  | LOQ / CRQL | Units    |
|---------------------------|-------------------------|-------|-----------|----------|------|------------|----------|
| <b>TARGETS</b>            |                         |       |           |          |      |            |          |
| 123-91-1                  | 1,4-Dioxane             | 0.41  |           | 0.070    | 0.20 | 0.20       | ug/L     |
| <b>SURROGATES</b>         |                         |       |           |          |      |            |          |
| 7297-45-2                 | 2-Methylnaphthalene-d10 | 0.57  |           | 30 - 150 |      | 142%       | SPK: 0.4 |
| 93951-69-0                | Fluoranthene-d10        | 0.43  |           | 30 - 150 |      | 108%       | SPK: 0.4 |
| 4165-60-0                 | Nitrobenzene-d5         | 0.51  | *         | 55 - 111 |      | 127%       | SPK: 0.4 |
| 321-60-8                  | 2-Fluorobiphenyl        | 0.46  | *         | 53 - 106 |      | 115%       | SPK: 0.4 |
| 1718-51-0                 | Terphenyl-d14           | 0.50  |           | 58 - 132 |      | 124%       | SPK: 0.4 |
| <b>INTERNAL STANDARDS</b> |                         |       |           |          |      |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4  | 1950  | 7.301     |          |      |            |          |
| 1146-65-2                 | Naphthalene-d8          | 4690  | 10.052    |          |      |            |          |
| 15067-26-2                | Acenaphthene-d10        | 3100  | 13.957    |          |      |            |          |
| 1517-22-2                 | Phenanthrene-d10        | 7730  | 16.723    |          |      |            |          |
| 1719-03-5                 | Chrysene-d12            | 7120  | 20.974    |          |      |            |          |
| 1520-96-3                 | Perylene-d12            | 6600  | 23.064    |          |      |            |          |

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\BN120424\  
 Data File : BN035409.D  
 Acq On : 03 Dec 2024 18:48  
 Operator : RC/JU  
 Sample : PB165348BSD  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 PB165348BSD

Quant Time: Dec 03 22:05:27 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

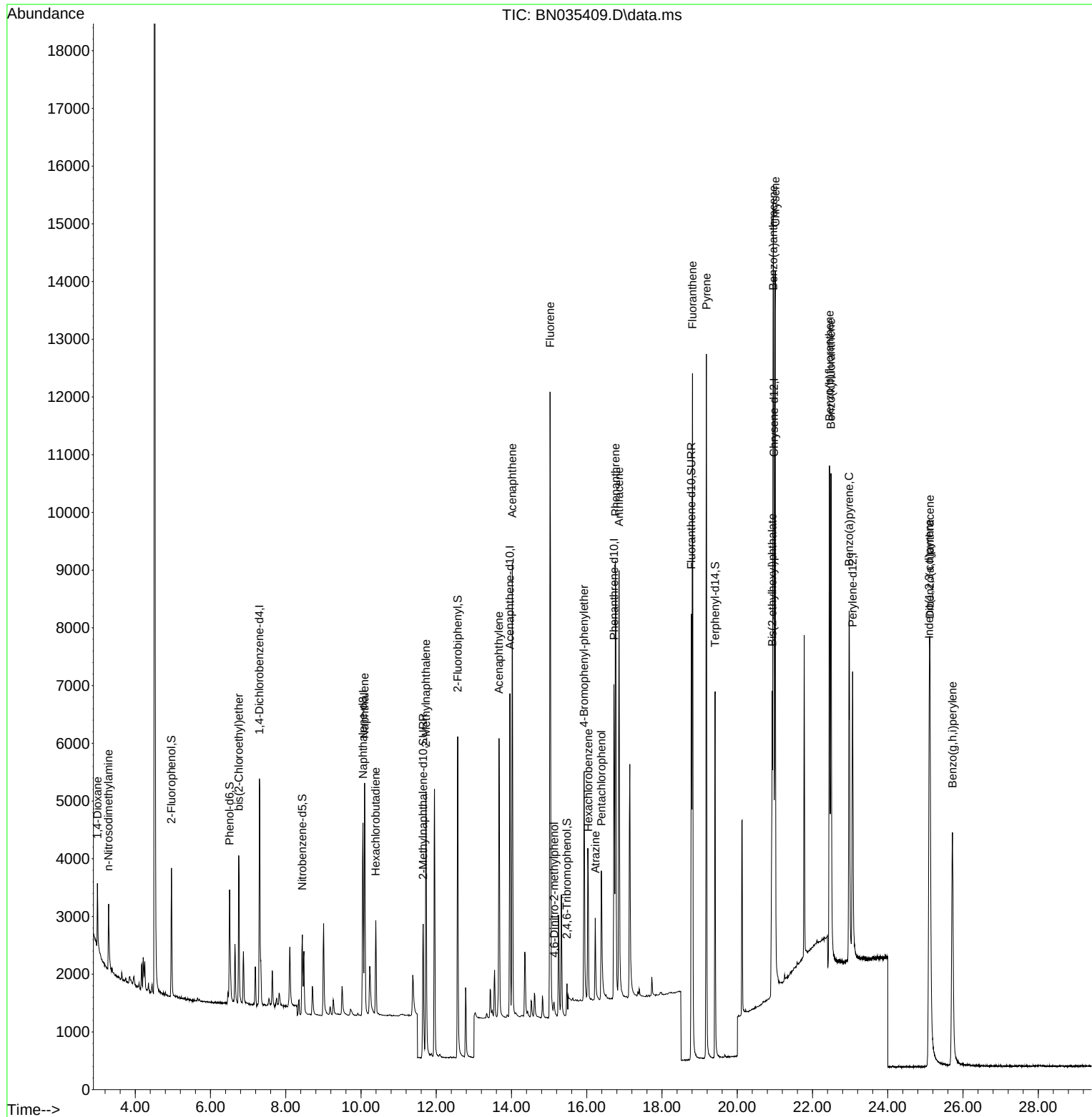
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.301  | 152  | 1951     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.052 | 136  | 4691     | 0.400 | ng    | # 0.00   |
| 13) Acenaphthene-d10          | 13.957 | 164  | 3099     | 0.400 | ng    | -0.01    |
| 19) Phenanthrene-d10          | 16.723 | 188  | 7726     | 0.400 | ng    | #-0.01   |
| 29) Chrysene-d12              | 20.974 | 240  | 7120     | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.064 | 264  | 6595     | 0.400 | ng    | # 0.00   |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 4.961  | 112  | 1884     | 0.386 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.506  | 99   | 2126     | 0.362 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.440  | 82   | 1454     | 0.507 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.651 | 152  | 4161     | 0.567 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.475 | 330  | 556      | 0.253 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.569 | 172  | 5400     | 0.461 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 18.780 | 212  | 9439     | 0.431 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.412 | 244  | 6956     | 0.495 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
| 2) 1,4-Dioxane                | 2.996  | 88   | 759      | 0.407 | ng    | # 80     |
| 3) n-Nitrosodimethylamine     | 3.285  | 42   | 676      | 0.435 | ng    | # 97     |
| 6) bis(2-Chloroethyl)ether    | 6.752  | 93   | 2039     | 0.413 | ng    | 99       |
| 9) Naphthalene                | 10.095 | 128  | 5234     | 0.423 | ng    | 99       |
| 10) Hexachlorobutadiene       | 10.394 | 225  | 1303     | 0.457 | ng    | # 99     |
| 12) 2-Methylnaphthalene       | 11.727 | 142  | 3629     | 0.410 | ng    | 99       |
| 16) Acenaphthylene            | 13.668 | 152  | 5859     | 0.450 | ng    | 99       |
| 17) Acenaphthene              | 14.021 | 154  | 3729     | 0.432 | ng    | 100      |
| 18) Fluorene                  | 15.026 | 166  | 5251     | 0.425 | ng    | 100      |
| 20) 4,6-Dinitro-2-methylph... | 15.133 | 198  | 293      | 0.386 | ng    | 89       |
| 21) 4-Bromophenyl-phenylether | 15.929 | 248  | 1930     | 0.427 | ng    | # 77     |
| 22) Hexachlorobenzene         | 16.040 | 284  | 2303     | 0.434 | ng    | 99       |
| 23) Atrazine                  | 16.227 | 200  | 1258     | 0.391 | ng    | 97       |
| 24) Pentachlorophenol         | 16.388 | 266  | 1409     | 0.610 | ng    | # 85     |
| 25) Phenanthrene              | 16.760 | 178  | 9175     | 0.432 | ng    | 100      |
| 26) Anthracene                | 16.860 | 178  | 8313     | 0.433 | ng    | 99       |
| 28) Fluoranthene              | 18.813 | 202  | 11171    | 0.390 | ng    | 99       |
| 30) Pyrene                    | 19.180 | 202  | 11404    | 0.434 | ng    | 100      |
| 32) Benzo(a)anthracene        | 20.956 | 228  | 10285    | 0.413 | ng    | 99       |
| 33) Chrysene                  | 21.009 | 228  | 11567    | 0.450 | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 20.929 | 149  | 3938     | 0.400 | ng    | 99       |
| 36) Indeno(1,2,3-cd)pyrene    | 25.102 | 276  | 10891    | 0.422 | ng    | 98       |
| 37) Benzo(b)fluoranthene      | 22.451 | 252  | 15594    | 0.646 | ng    | 100      |
| 38) Benzo(k)fluoranthene      | 22.491 | 252  | 11076    | 0.466 | ng    | 98       |
| 39) Benzo(a)pyrene            | 22.974 | 252  | 8981     | 0.452 | ng    | 98       |
| 40) Dibenzo(a,h)anthracene    | 25.123 | 278  | 8366     | 0.411 | ng    | 98       |
| 41) Benzo(g,h,i)perylene      | 25.719 | 276  | 8782     | 0.413 | ng    | 100      |

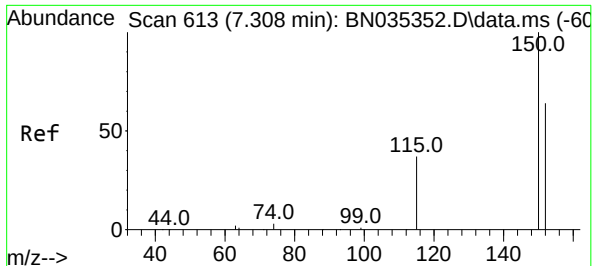
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN035409.D  
Acq On : 03 Dec 2024 18:48  
Operator : RC/JU  
Sample : PB165348BSD  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
PB165348BSD

Quant Time: Dec 03 22:05:27 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

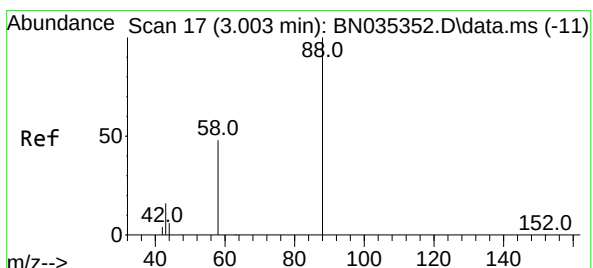
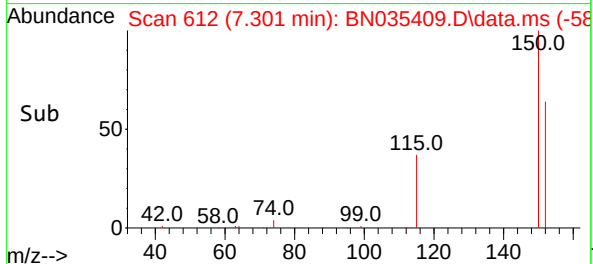
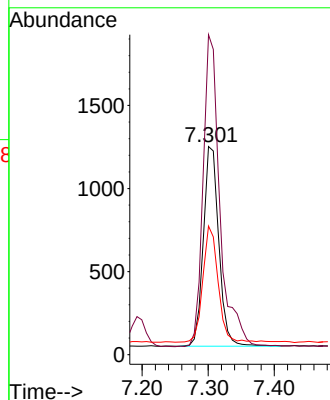
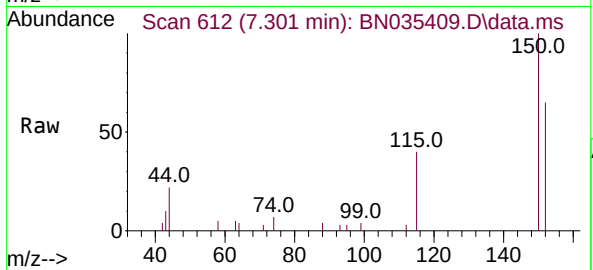




#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.301 min Scan# 61  
Delta R.T. -0.007 min  
Lab File: BN035409.D  
Acq: 03 Dec 2024 18:48

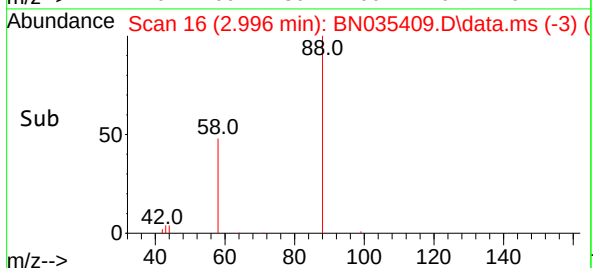
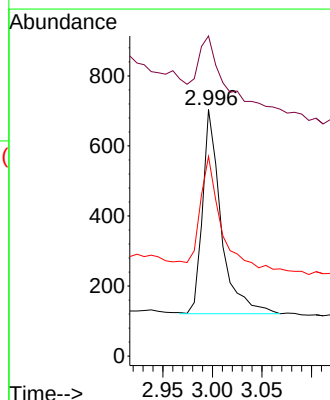
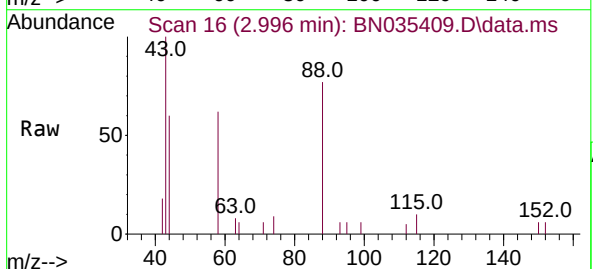
Instrument :  
BNA\_N  
ClientSampleId :  
PB165348BSD

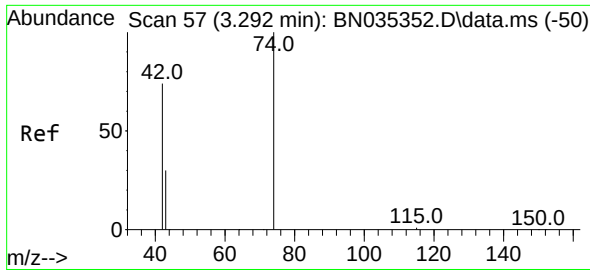
Tgt Ion:152 Resp: 1951  
Ion Ratio Lower Upper  
152 100  
150 153.7 124.0 186.0  
115 61.8 49.6 74.4



#2  
1,4-Dioxane  
Concen: 0.407 ng  
RT: 2.996 min Scan# 16  
Delta R.T. -0.007 min  
Lab File: BN035409.D  
Acq: 03 Dec 2024 18:48

Tgt Ion: 88 Resp: 759  
Ion Ratio Lower Upper  
88 100  
43 48.6 17.2 25.8#  
58 59.2 44.5 66.7

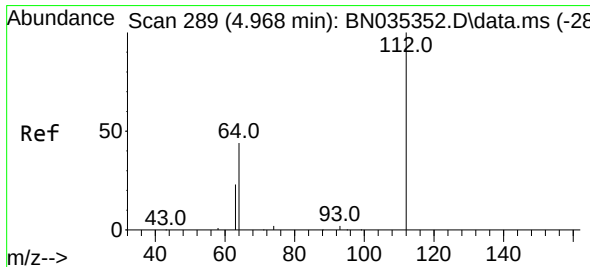
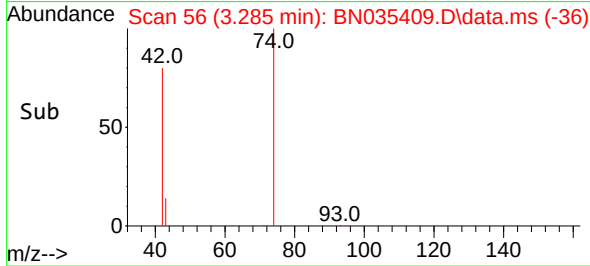
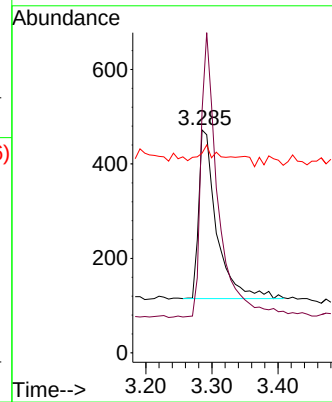
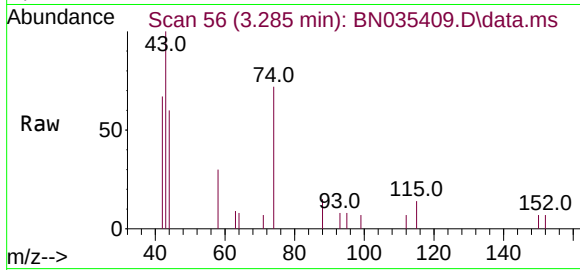




#3  
n-Nitrosodimethylamine  
Concen: 0.435 ng  
RT: 3.285 min Scan# 50  
Delta R.T. -0.007 min  
Lab File: BN035409.D  
Acq: 03 Dec 2024 18:48

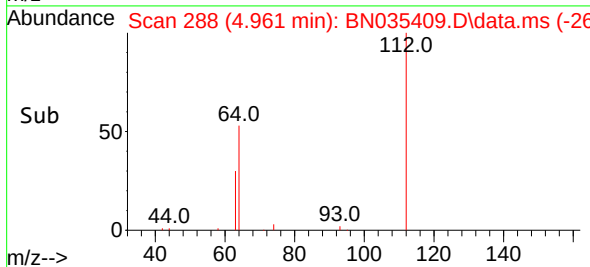
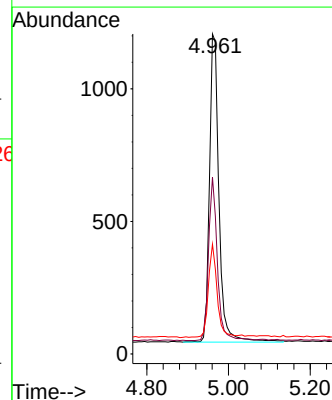
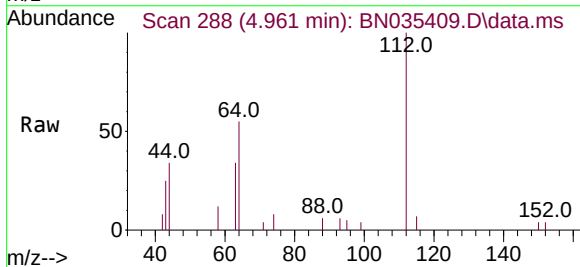
Instrument :  
BNA\_N  
ClientSampleId :  
PB165348BSD

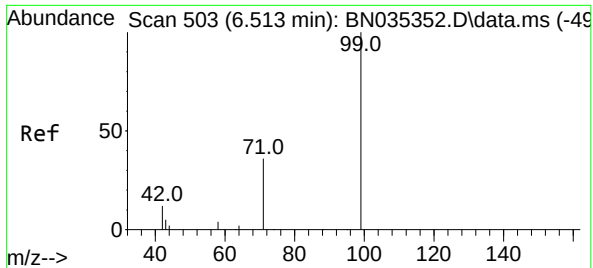
Tgt Ion: 42 Resp: 676  
Ion Ratio Lower Upper  
42 100  
74 160.1 124.9 187.3  
44 6.7 2.2 3.4#



#4  
2-Fluorophenol  
Concen: 0.386 ng  
RT: 4.961 min Scan# 288  
Delta R.T. -0.007 min  
Lab File: BN035409.D  
Acq: 03 Dec 2024 18:48

Tgt Ion: 112 Resp: 1884  
Ion Ratio Lower Upper  
112 100  
64 49.2 39.8 59.8  
63 27.5 21.0 31.6

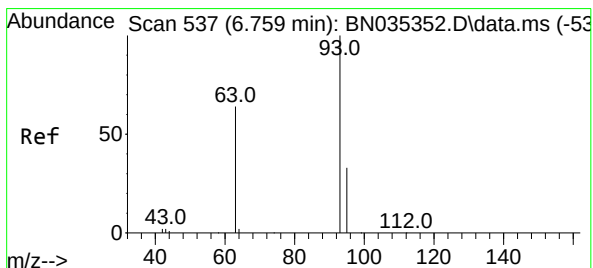
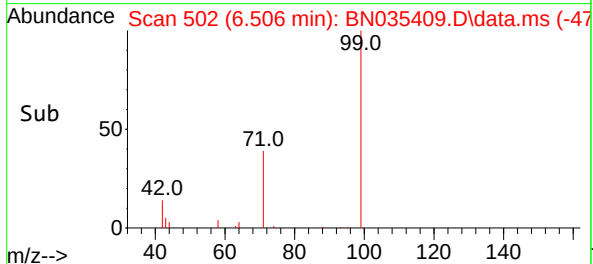
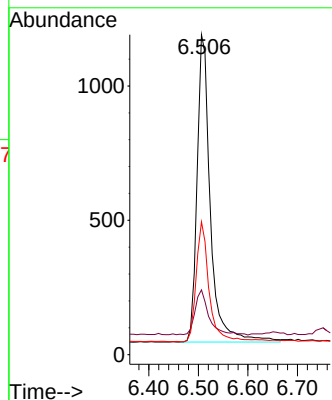
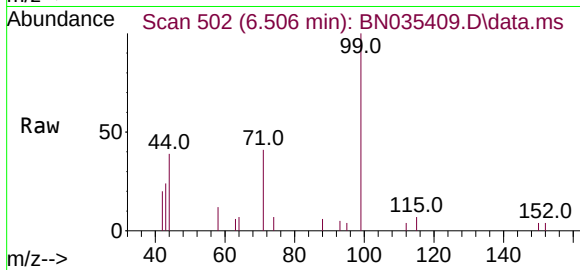




#5  
Phenol-d6  
Concen: 0.362 ng  
RT: 6.506 min Scan# 503  
Delta R.T. -0.007 min  
Lab File: BN035409.D  
Acq: 03 Dec 2024 18:48

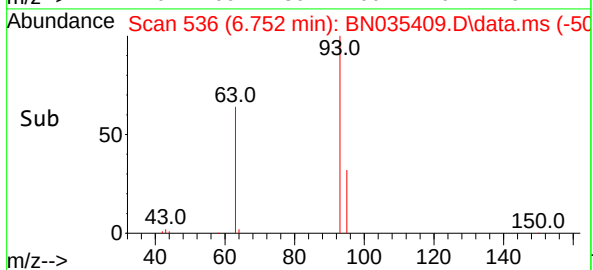
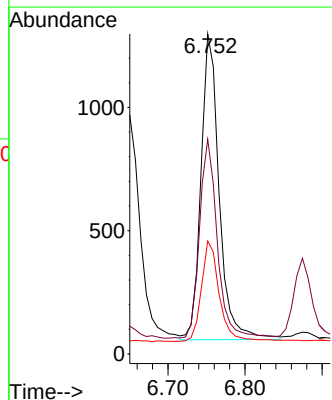
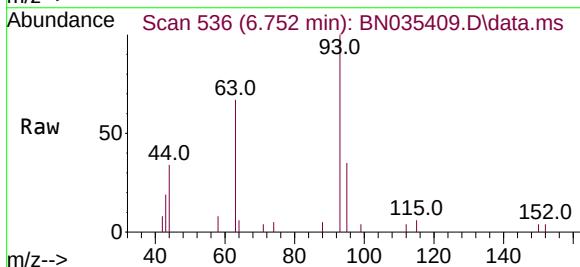
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PB165348BSD

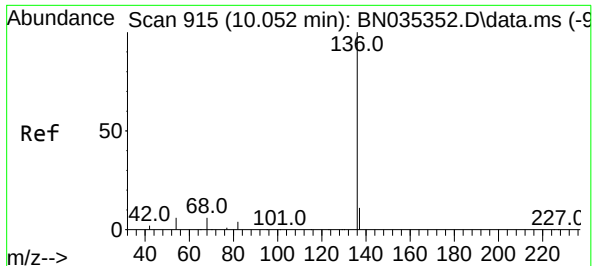
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 99      | 100   |       |       |
| 42      | 15.3  | 11.4  | 17.2  |
| 71      | 38.8  | 29.3  | 43.9  |



#6  
bis(2-Chloroethyl)ether  
Concen: 0.413 ng  
RT: 6.752 min Scan# 536  
Delta R.T. -0.007 min  
Lab File: BN035409.D  
Acq: 03 Dec 2024 18:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 93      | 100   |       |       |
| 63      | 63.6  | 50.4  | 75.6  |
| 95      | 32.7  | 25.7  | 38.5  |

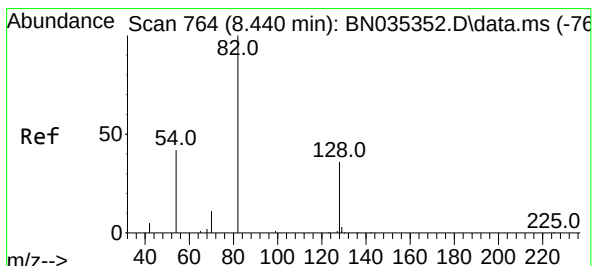
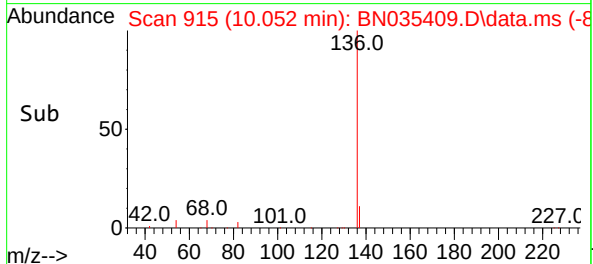
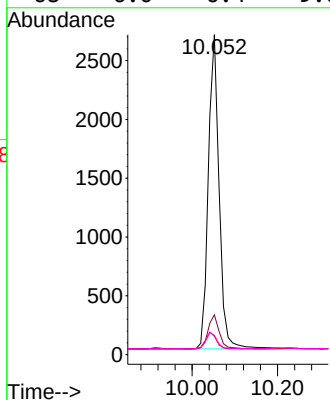
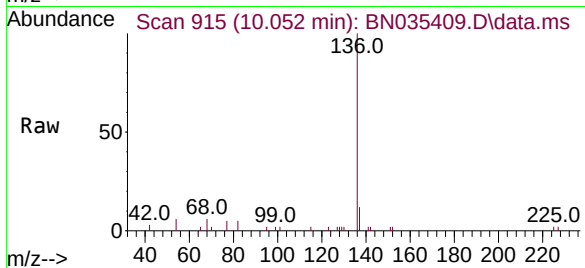




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.052 min Scan# 915  
Delta R.T. 0.000 min  
Lab File: BN035409.D  
Acq: 03 Dec 2024 18:48

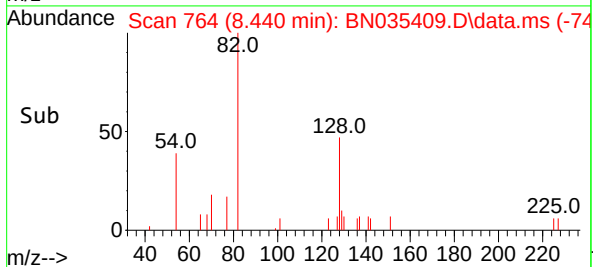
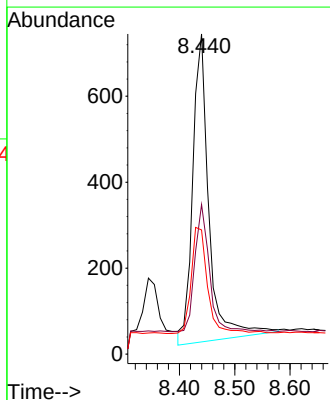
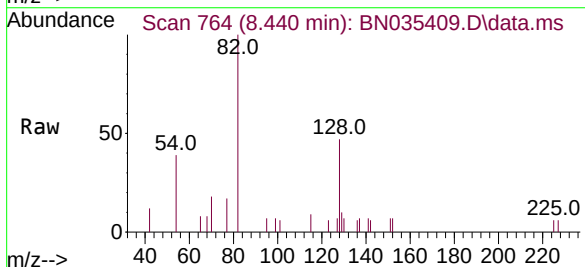
Instrument :  
BNA\_N  
ClientSampleId :  
PB165348BSD

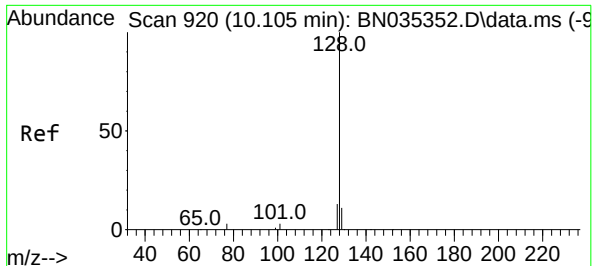
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 4691  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 12.5  | 10.2  | 15.2  |
| 54       | 5.7   | 6.1   | 9.1#  |
| 68       | 6.0   | 6.4   | 9.6#  |



#8  
Nitrobenzene-d5  
Concen: 0.507 ng  
RT: 8.440 min Scan# 764  
Delta R.T. 0.000 min  
Lab File: BN035409.D  
Acq: 03 Dec 2024 18:48

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 1454  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 46.7  | 33.4  | 50.0  |
| 54       | 38.8  | 36.7  | 55.1  |

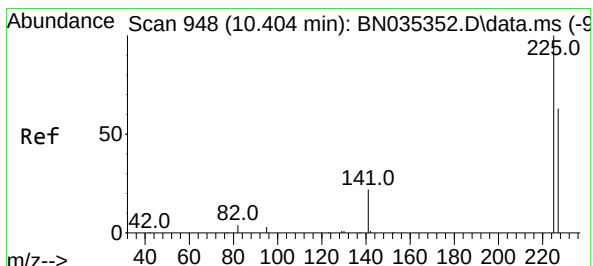
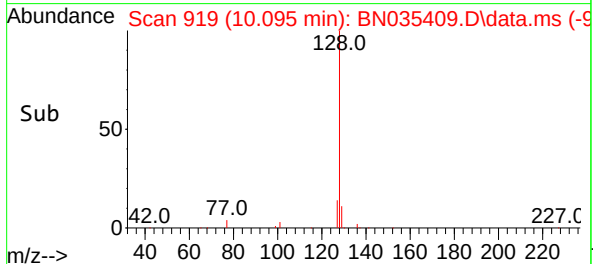
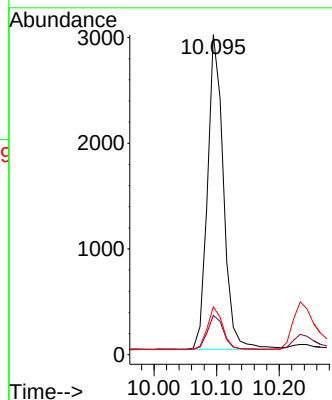
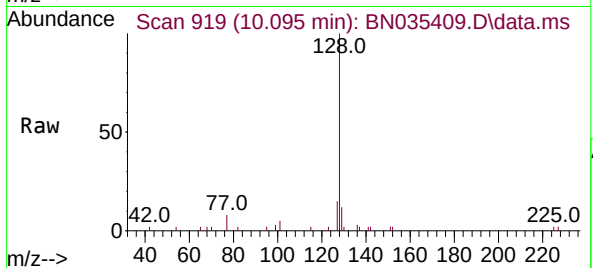




#9  
Naphthalene  
Concen: 0.423 ng  
RT: 10.095 min Scan# 919  
Delta R.T. -0.011 min  
Lab File: BN035409.D  
Acq: 03 Dec 2024 18:48

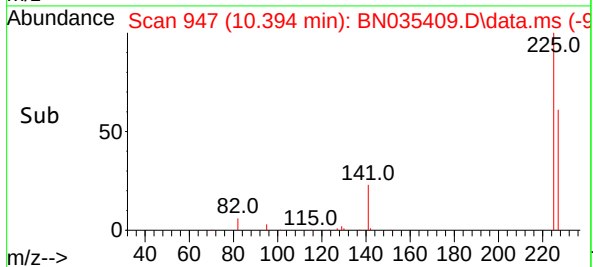
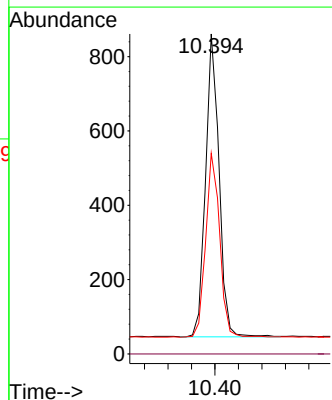
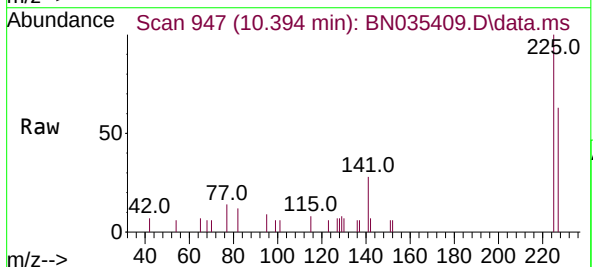
Instrument :  
BNA\_N  
ClientSampleId :  
PB165348BSD

Tgt Ion:128 Resp: 5234  
Ion Ratio Lower Upper  
128 100  
129 12.3 9.8 14.6  
127 15.0 11.4 17.2

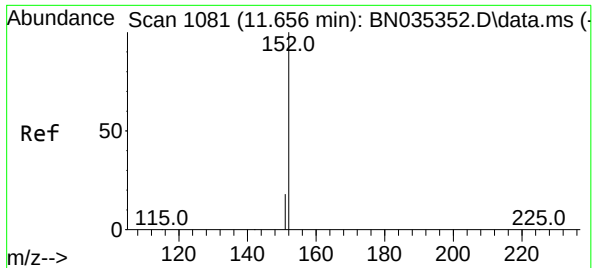


#10  
Hexachlorobutadiene  
Concen: 0.457 ng  
RT: 10.394 min Scan# 947  
Delta R.T. -0.011 min  
Lab File: BN035409.D  
Acq: 03 Dec 2024 18:48

Tgt Ion:225 Resp: 1303  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 63.2 51.3 76.9



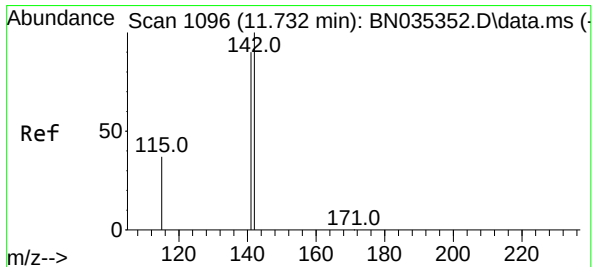
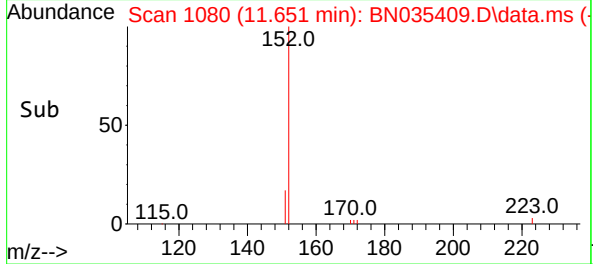
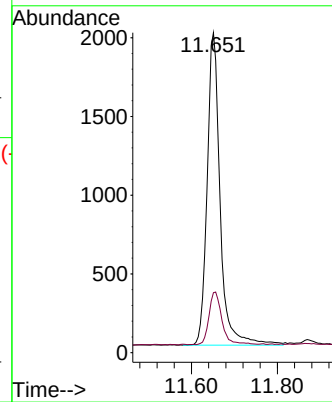
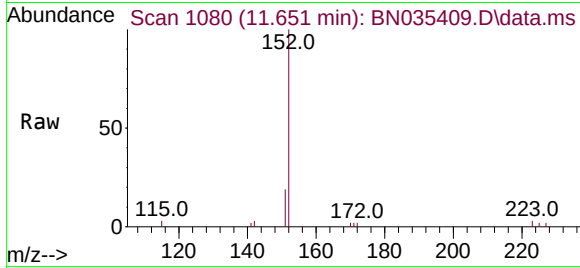




#11  
2-Methylnaphthalene-d10  
Concen: 0.567 ng  
RT: 11.651 min Scan# 1080  
Delta R.T. -0.005 min  
Lab File: BN035409.D  
Acq: 03 Dec 2024 18:48

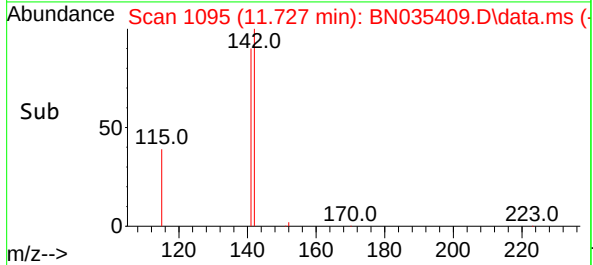
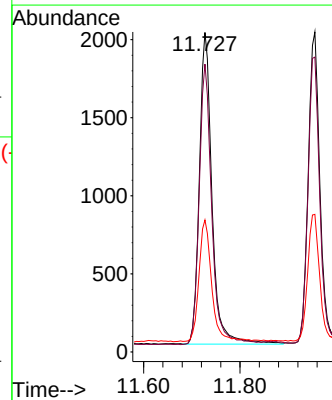
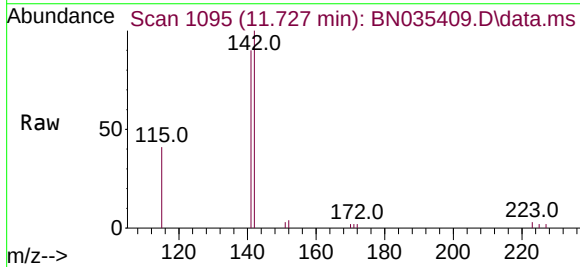
Instrument :  
BNA\_N  
ClientSampleId :  
PB165348BSD

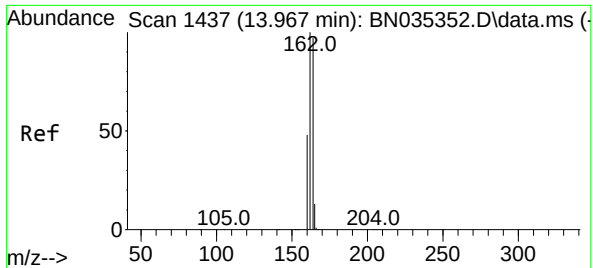
Tgt Ion:152 Resp: 4161  
Ion Ratio Lower Upper  
152 100  
151 16.6 16.6 25.0#



#12  
2-Methylnaphthalene  
Concen: 0.410 ng  
RT: 11.727 min Scan# 1095  
Delta R.T. -0.005 min  
Lab File: BN035409.D  
Acq: 03 Dec 2024 18:48

Tgt Ion:142 Resp: 3629  
Ion Ratio Lower Upper  
142 100  
141 90.1 72.2 108.4  
115 41.3 31.4 47.0

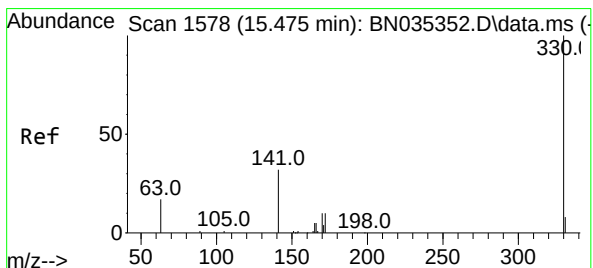
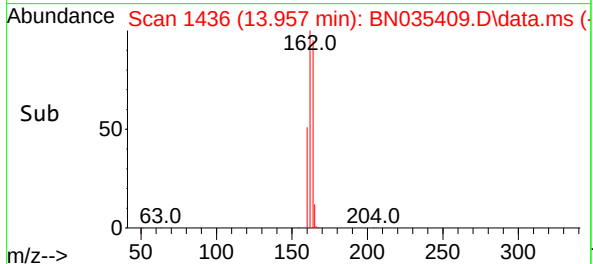
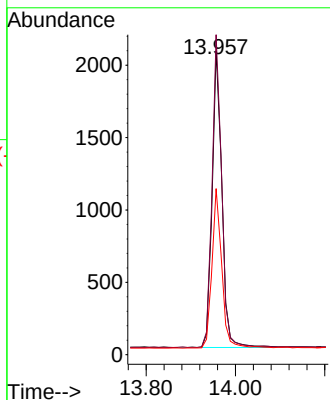
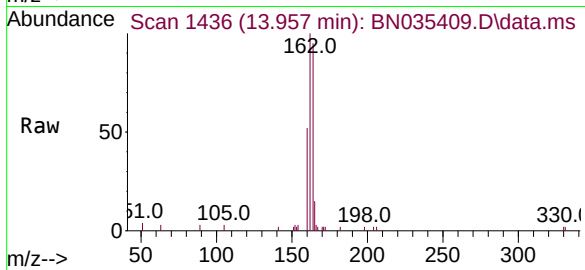




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.957 min Scan# 1437  
Delta R.T. -0.011 min  
Lab File: BN035409.D  
Acq: 03 Dec 2024 18:48

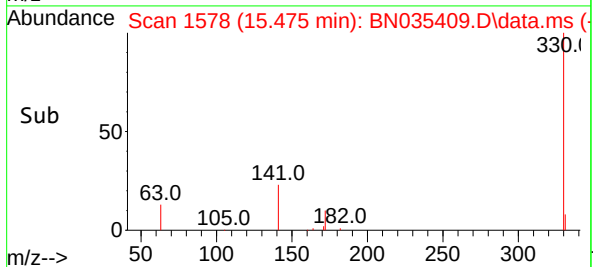
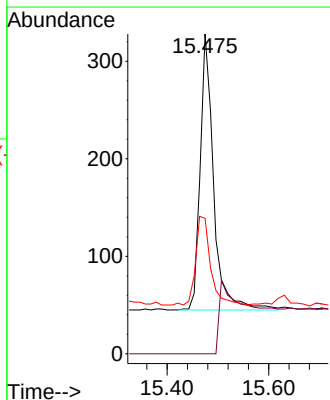
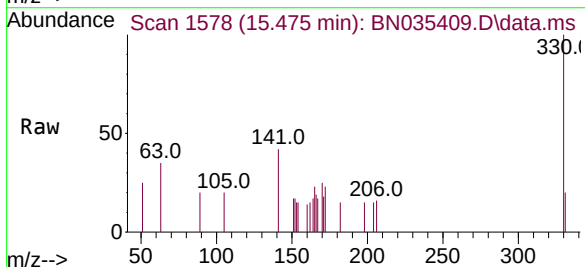
Instrument :  
BNA\_N  
ClientSampleId :  
PB165348BSD

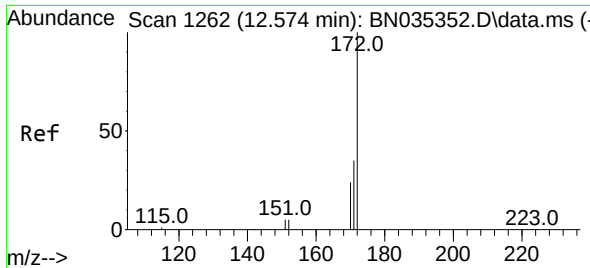
Tgt Ion:164 Resp: 3099  
Ion Ratio Lower Upper  
164 100  
162 105.3 82.2 123.2  
160 54.7 40.1 60.1



#14  
2,4,6-Tribromophenol  
Concen: 0.253 ng  
RT: 15.475 min Scan# 1578  
Delta R.T. 0.000 min  
Lab File: BN035409.D  
Acq: 03 Dec 2024 18:48

Tgt Ion:330 Resp: 556  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 34.7 26.6 40.0

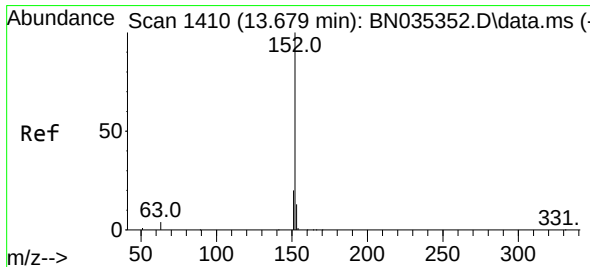
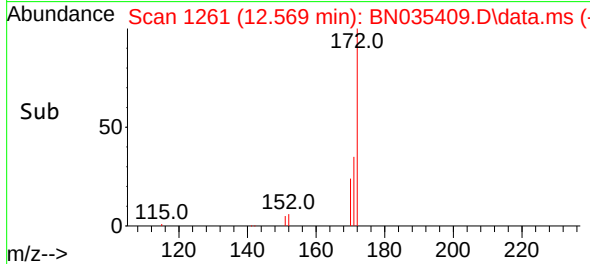
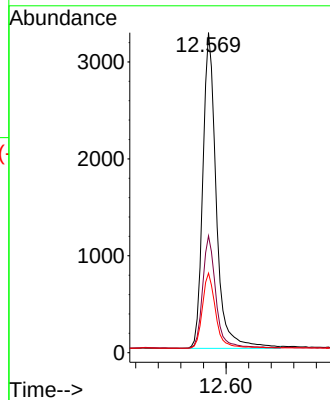
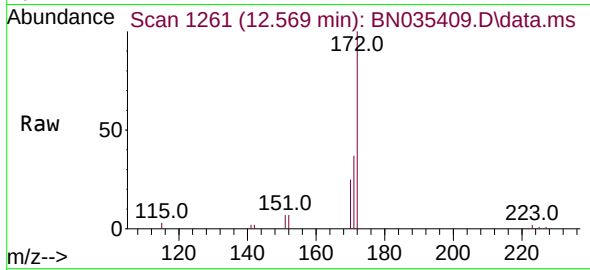




#15  
2-Fluorobiphenyl  
Concen: 0.461 ng  
RT: 12.569 min Scan# 11  
Delta R.T. -0.005 min  
Lab File: BN035409.D  
Acq: 03 Dec 2024 18:48

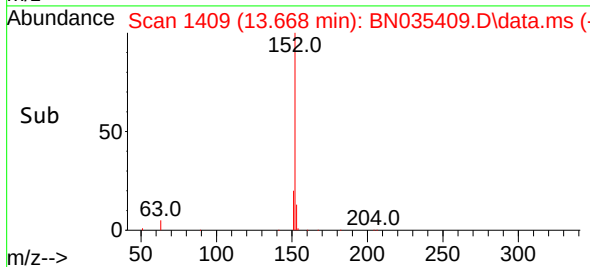
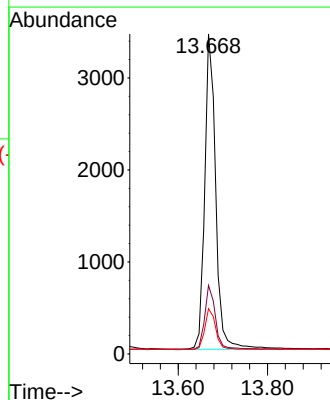
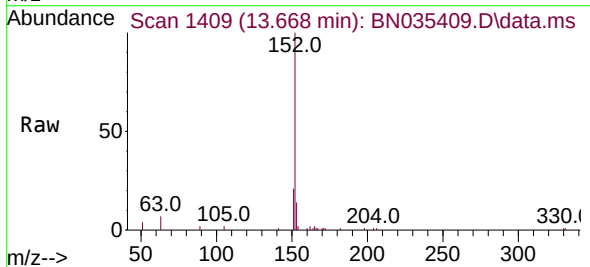
Instrument :  
BNA\_N  
ClientSampleId :  
PB165348BSD

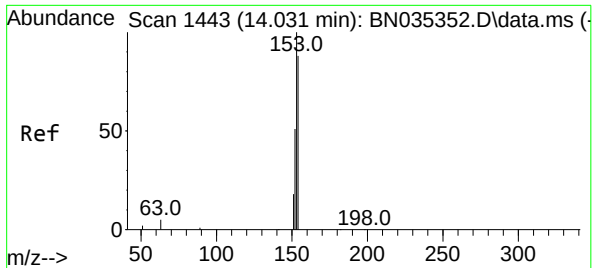
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 172   | Resp: | 5400  |
| Ion      | Ratio | Lower | Upper |
| 172      | 100   |       |       |
| 171      | 36.5  | 29.0  | 43.4  |
| 170      | 24.8  | 19.8  | 29.8  |



#16  
Acenaphthylene  
Concen: 0.450 ng  
RT: 13.668 min Scan# 1409  
Delta R.T. -0.011 min  
Lab File: BN035409.D  
Acq: 03 Dec 2024 18:48

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 152   | Resp: | 5859  |
| Ion      | Ratio | Lower | Upper |
| 152      | 100   |       |       |
| 151      | 19.5  | 16.2  | 24.2  |
| 153      | 13.2  | 10.4  | 15.6  |

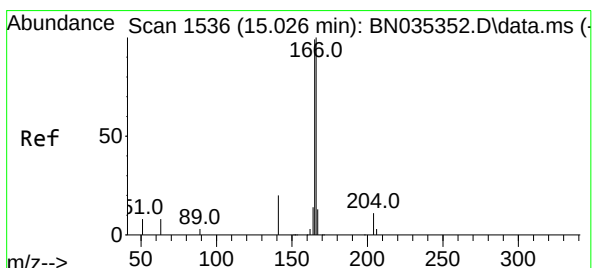
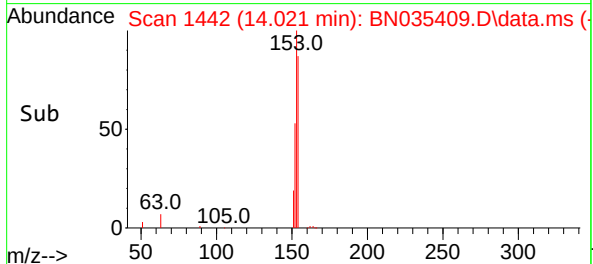
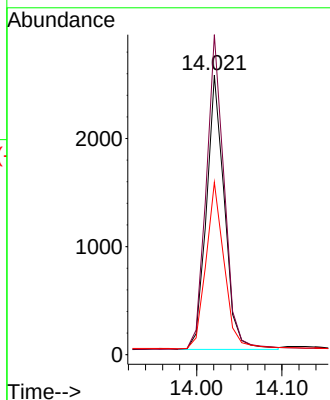
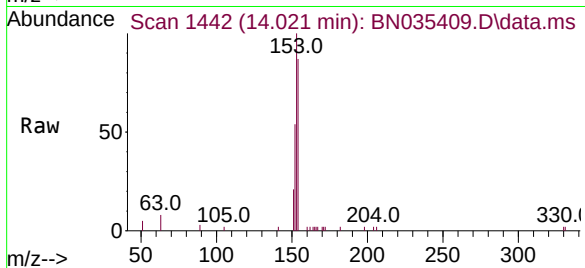




#17  
Acenaphthene  
Concen: 0.432 ng  
RT: 14.021 min Scan# 1442  
Delta R.T. -0.011 min  
Lab File: BN035409.D  
Acq: 03 Dec 2024 18:48

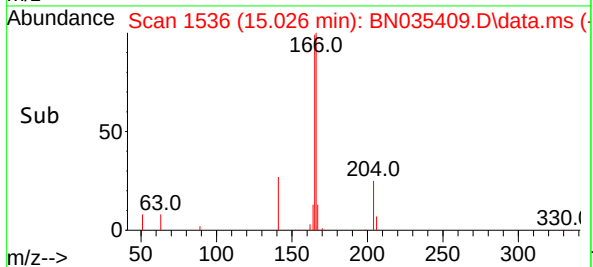
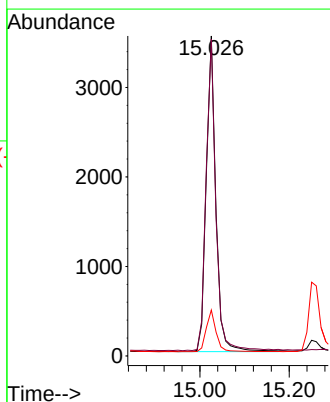
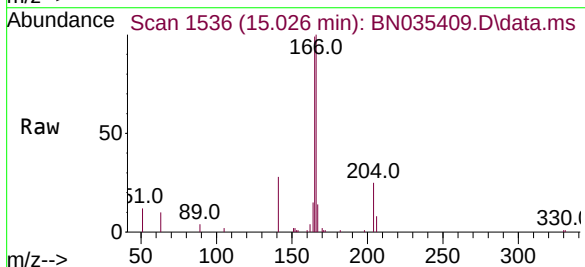
Instrument :  
BNA\_N  
ClientSampleId :  
PB165348BSD

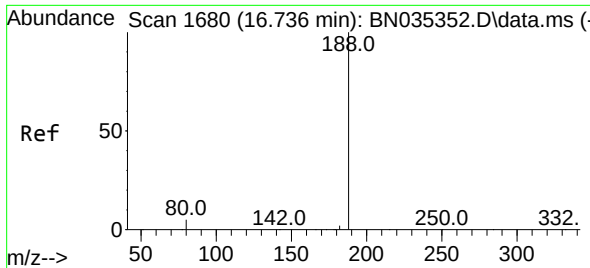
Tgt Ion:154 Resp: 3729  
Ion Ratio Lower Upper  
154 100  
153 116.0 92.6 139.0  
152 62.0 49.0 73.6



#18  
Fluorene  
Concen: 0.425 ng  
RT: 15.026 min Scan# 1536  
Delta R.T. 0.000 min  
Lab File: BN035409.D  
Acq: 03 Dec 2024 18:48

Tgt Ion:166 Resp: 5251  
Ion Ratio Lower Upper  
166 100  
165 99.6 79.7 119.5  
167 13.5 10.8 16.2

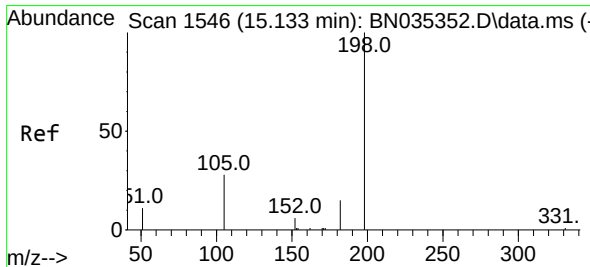
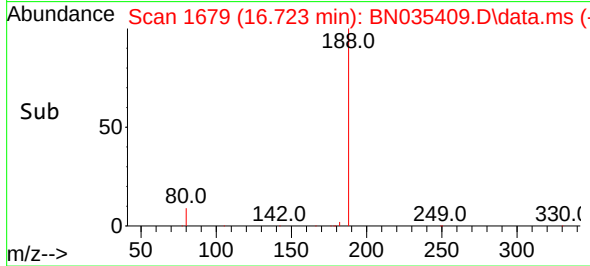
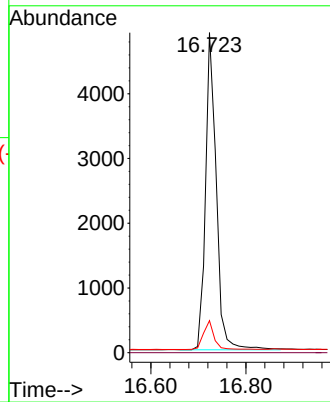
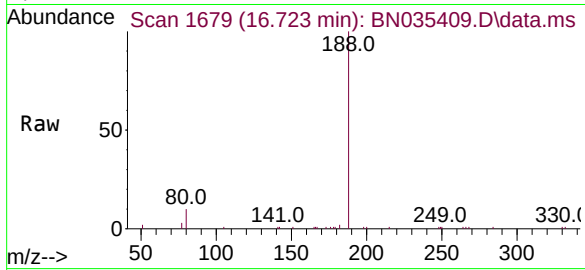




#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 16.723 min Scan# 1679  
Delta R.T. -0.012 min  
Lab File: BN035409.D  
Acq: 03 Dec 2024 18:48

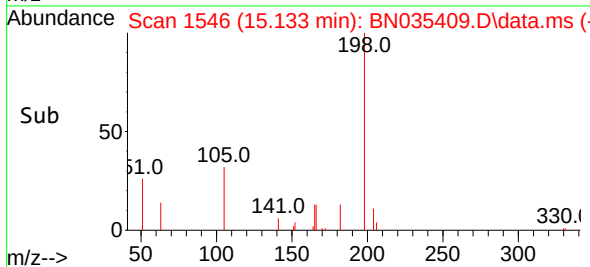
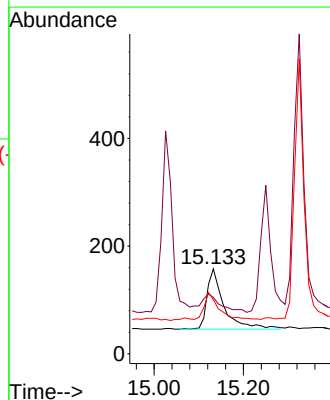
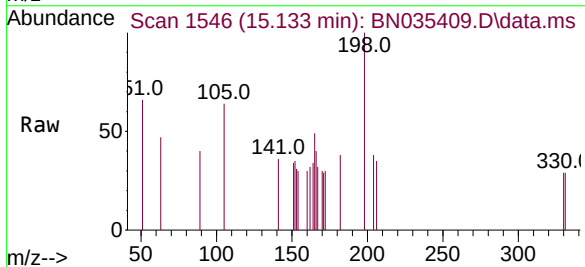
Instrument :  
BNA\_N  
ClientSampleId :  
PB165348BSD

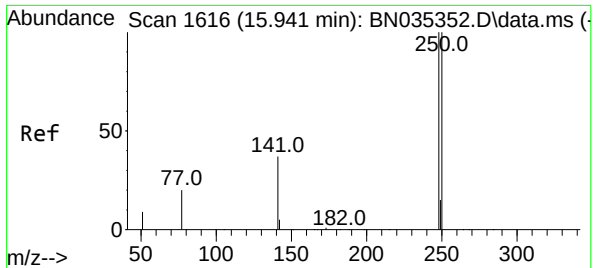
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 0.0   | 0.0   | 0.0   |
| 80      | 10.0  | 4.6   | 6.8   |



#20  
4,6-Dinitro-2-methylphenol  
Concen: 0.386 ng  
RT: 15.133 min Scan# 1546  
Delta R.T. -0.000 min  
Lab File: BN035409.D  
Acq: 03 Dec 2024 18:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 198     | 100   |       |       |
| 51      | 66.5  | 46.5  | 69.7  |
| 105     | 63.9  | 45.3  | 67.9  |

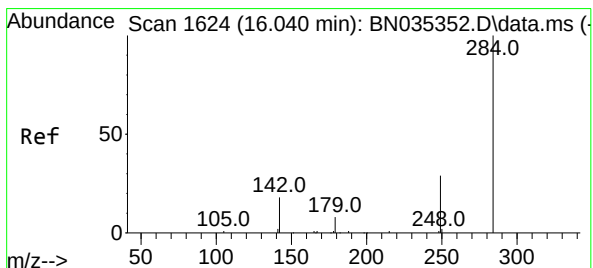
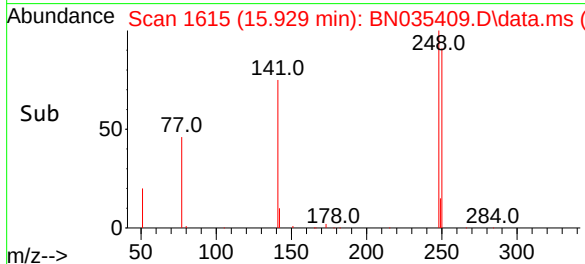
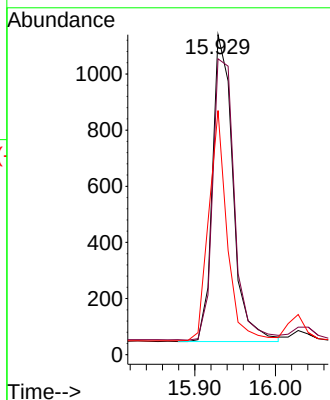
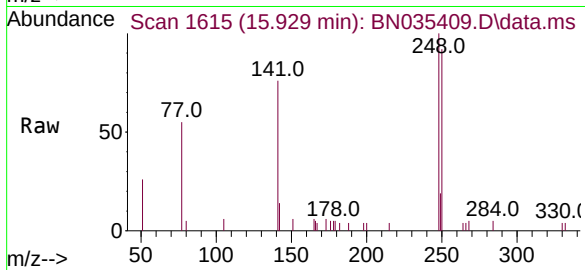




#21  
4-Bromophenyl-phenylether  
Concen: 0.427 ng  
RT: 15.929 min Scan# 1615  
Delta R.T. -0.012 min  
Lab File: BN035409.D  
Acq: 03 Dec 2024 18:48

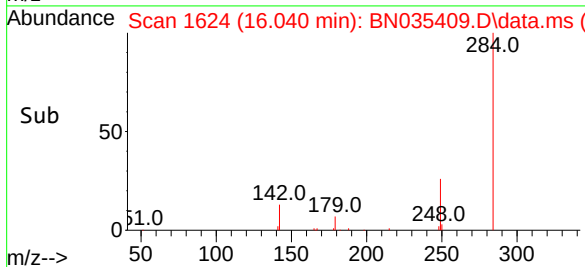
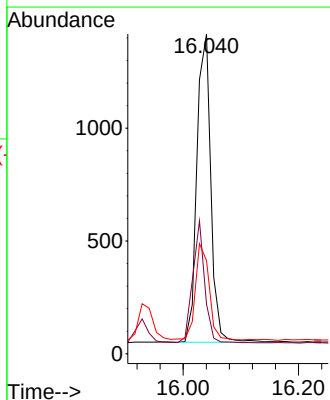
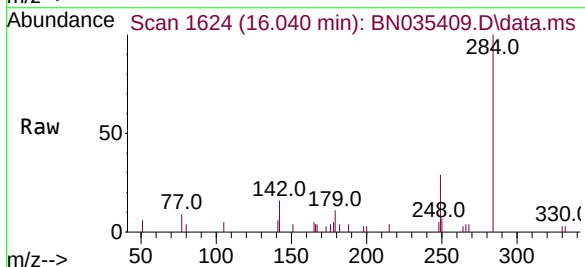
Instrument :  
BNA\_N  
ClientSampleId :  
PB165348BSD

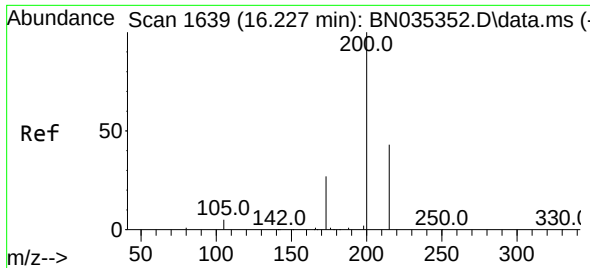
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 248     | 100   |       |       |
| 250     | 92.5  | 80.6  | 120.8 |
| 141     | 76.3  | 31.5  | 47.3  |



#22  
Hexachlorobenzene  
Concen: 0.434 ng  
RT: 16.040 min Scan# 1624  
Delta R.T. 0.000 min  
Lab File: BN035409.D  
Acq: 03 Dec 2024 18:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 284     | 100   |       |       |
| 142     | 34.0  | 26.7  | 40.1  |
| 249     | 30.8  | 24.6  | 36.8  |

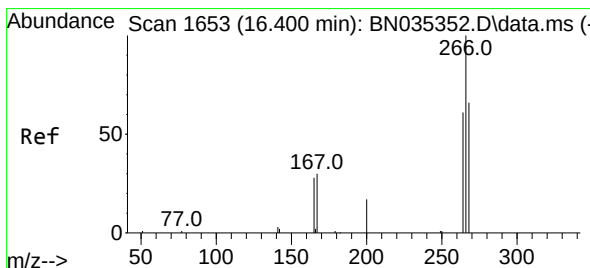
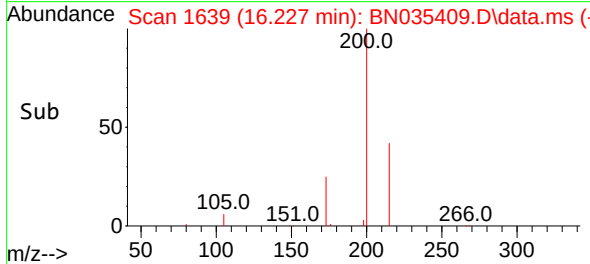
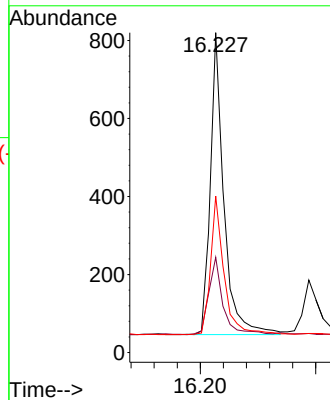
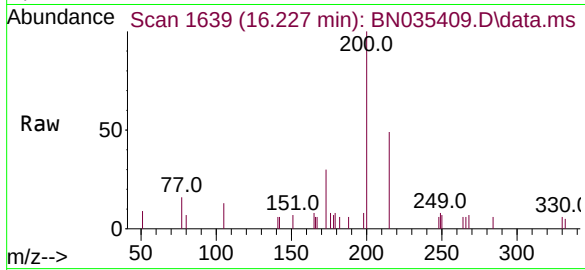




#23  
Atrazine  
Concen: 0.391 ng  
RT: 16.227 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: BN035409.D  
Acq: 03 Dec 2024 18:48

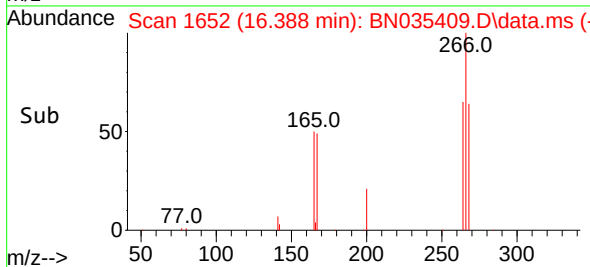
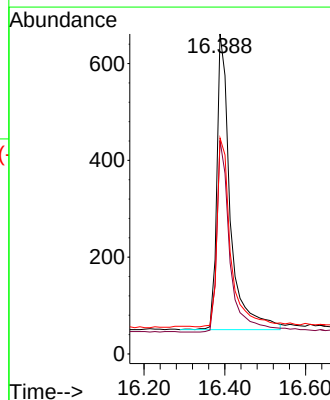
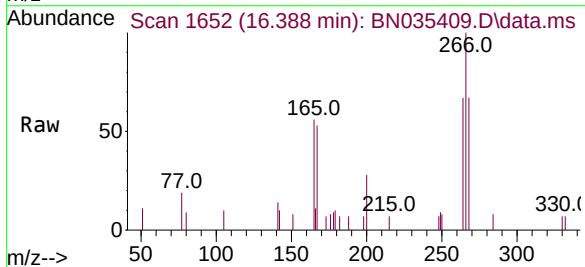
Instrument :  
BNA\_N  
ClientSampleId :  
PB165348BSD

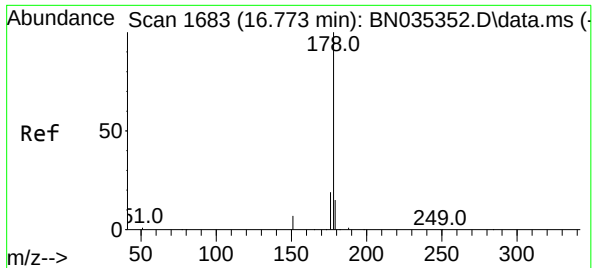
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 200   | Resp: | 1258 |
| Ion Ratio | Lower | Upper |      |
| 200       | 100   |       |      |
| 173       | 29.8  | 24.1  | 36.1 |
| 215       | 48.9  | 36.9  | 55.3 |



#24  
Pentachlorophenol  
Concen: 0.610 ng  
RT: 16.388 min Scan# 1652  
Delta R.T. -0.012 min  
Lab File: BN035409.D  
Acq: 03 Dec 2024 18:48

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 266   | Resp: | 1409  |
| Ion Ratio | Lower | Upper |       |
| 266       | 100   |       |       |
| 264       | 63.7  | 42.3  | 63.5# |
| 268       | 64.9  | 43.3  | 64.9  |

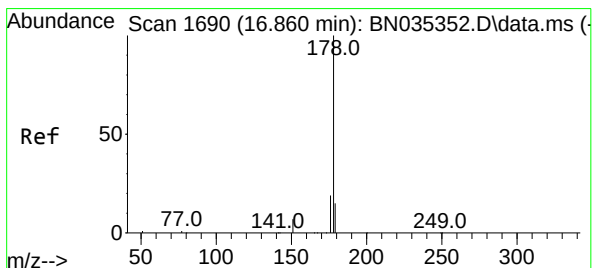
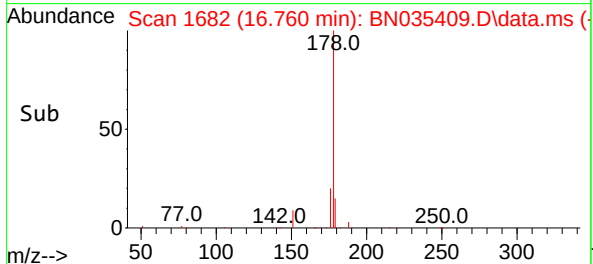
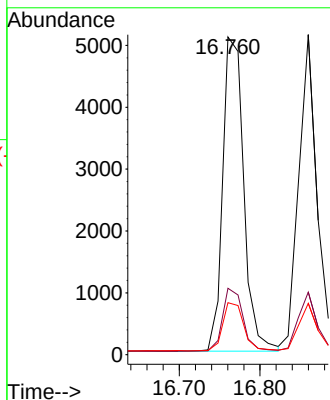
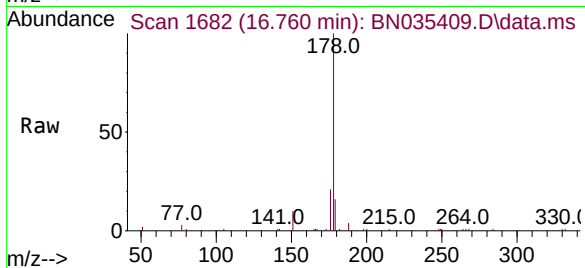




#25  
Phenanthrene  
Concen: 0.432 ng  
RT: 16.760 min Scan# 1682  
Delta R.T. -0.012 min  
Lab File: BN035409.D  
Acq: 03 Dec 2024 18:48

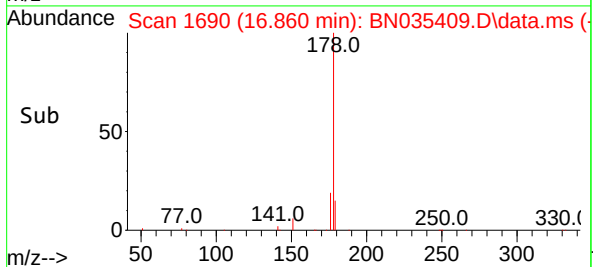
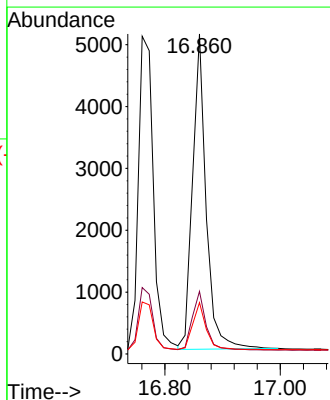
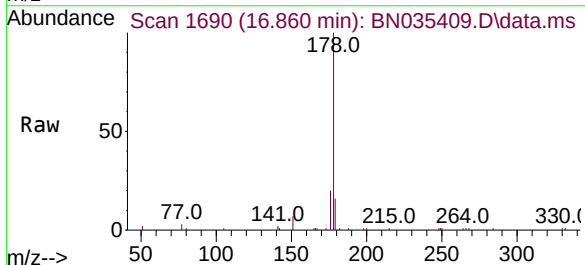
Instrument :  
BNA\_N  
ClientSampleId :  
PB165348BSD

Tgt Ion:178 Resp: 9175  
Ion Ratio Lower Upper  
178 100  
176 19.6 15.4 23.2  
179 15.4 12.3 18.5

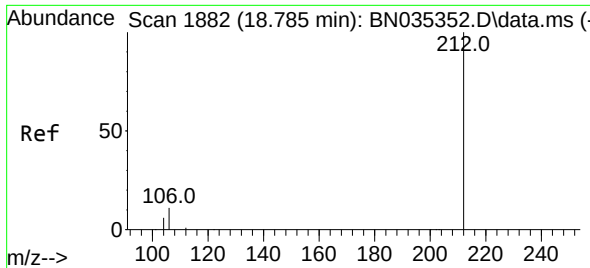


#26  
Anthracene  
Concen: 0.433 ng  
RT: 16.860 min Scan# 1690  
Delta R.T. 0.000 min  
Lab File: BN035409.D  
Acq: 03 Dec 2024 18:48

Tgt Ion:178 Resp: 8313  
Ion Ratio Lower Upper  
178 100  
176 19.0 15.0 22.6  
179 15.1 12.6 18.8







#27

Fluoranthene-d10

Concen: 0.431 ng

RT: 18.780 min Scan# 1881

Delta R.T. -0.005 min

Lab File: BN035409.D

Acq: 03 Dec 2024 18:48

Instrument :

BNA\_N

ClientSampleId :

PB165348BSD

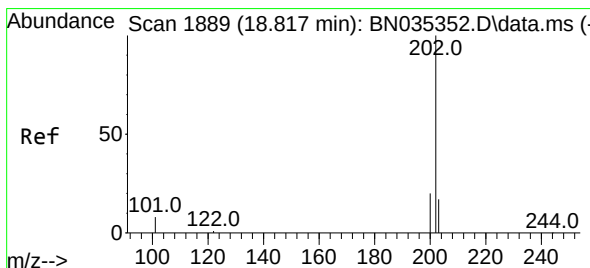
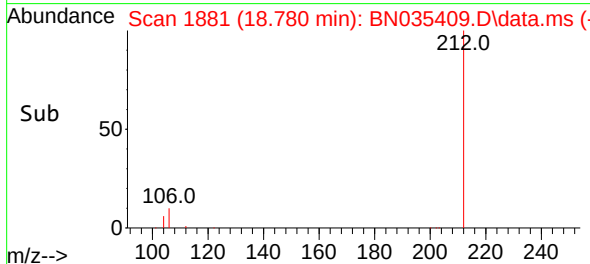
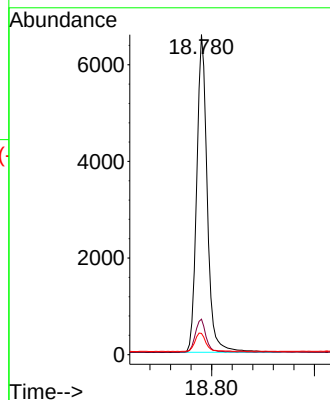
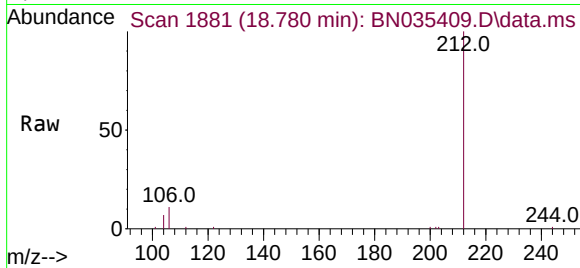
Tgt Ion:212 Resp: 9439

Ion Ratio Lower Upper

212 100

106 10.4 9.2 13.8

104 6.1 5.3 7.9



#28

Fluoranthene

Concen: 0.390 ng

RT: 18.813 min Scan# 1888

Delta R.T. -0.005 min

Lab File: BN035409.D

Acq: 03 Dec 2024 18:48

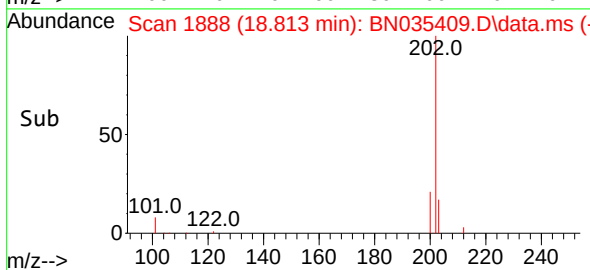
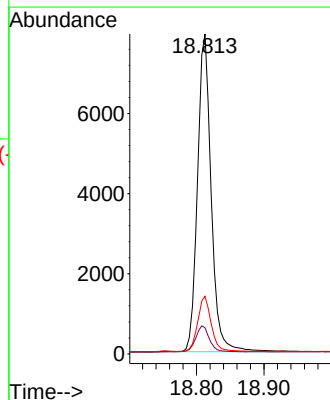
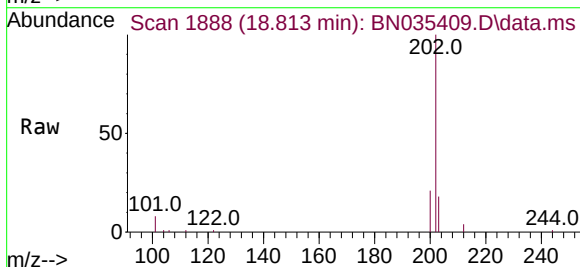
Tgt Ion:202 Resp: 11171

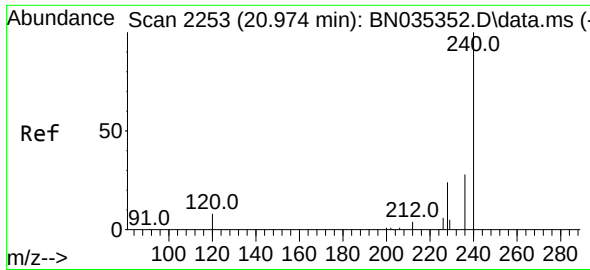
Ion Ratio Lower Upper

202 100

101 8.4 7.4 11.0

203 17.0 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: BN035409.D

Acq: 03 Dec 2024 18:48

Instrument :

BNA\_N

ClientSampleId :

PB165348BSD

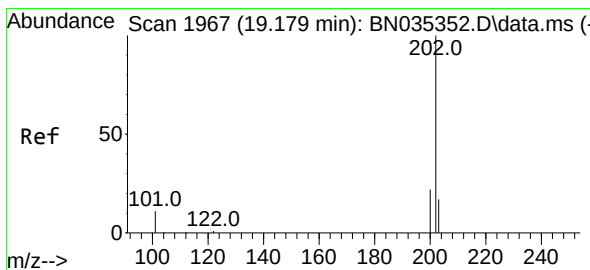
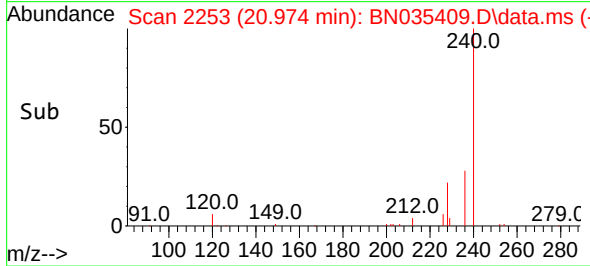
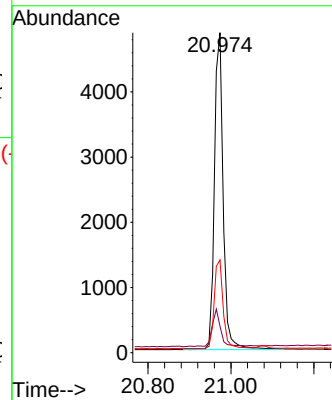
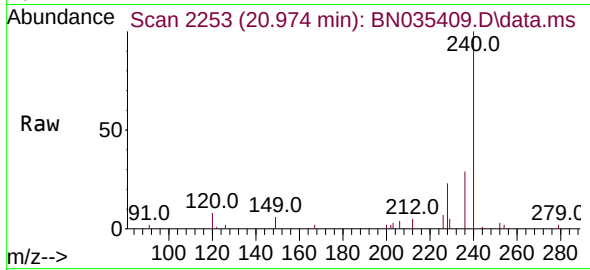
Tgt Ion:240 Resp: 7120

Ion Ratio Lower Upper

240 100

120 8.3 7.9 11.9

236 29.0 22.9 34.3



#30

Pyrene

Concen: 0.434 ng

RT: 19.180 min Scan# 1967

Delta R.T. 0.000 min

Lab File: BN035409.D

Acq: 03 Dec 2024 18:48

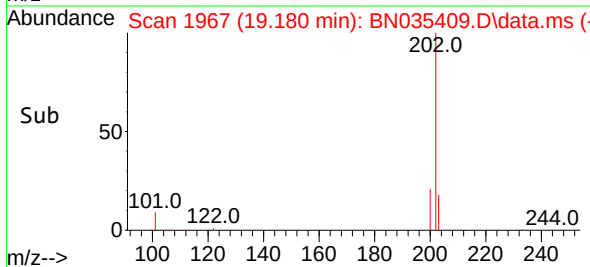
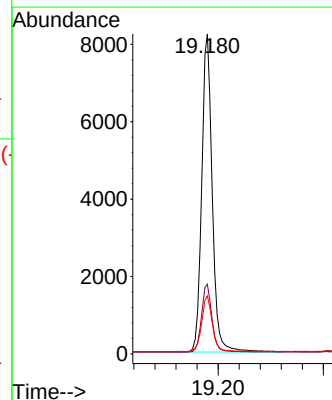
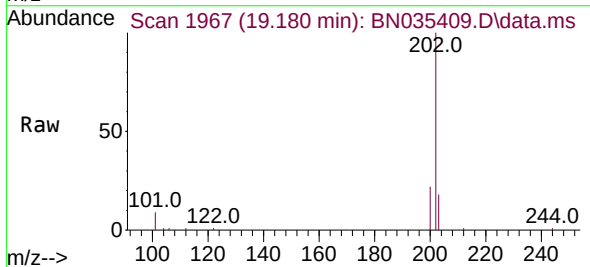
Tgt Ion:202 Resp: 11404

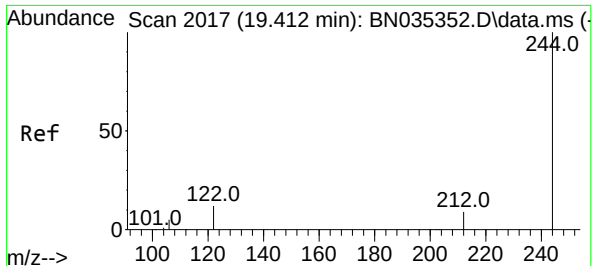
Ion Ratio Lower Upper

202 100

200 21.2 17.0 25.4

203 17.7 14.3 21.5





#31

Terphenyl-d14

Concen: 0.495 ng

RT: 19.412 min Scan# 2017

Delta R.T. 0.000 min

Lab File: BN035409.D

Acq: 03 Dec 2024 18:48

Instrument :

BNA\_N

ClientSampleId :

PB165348BSD

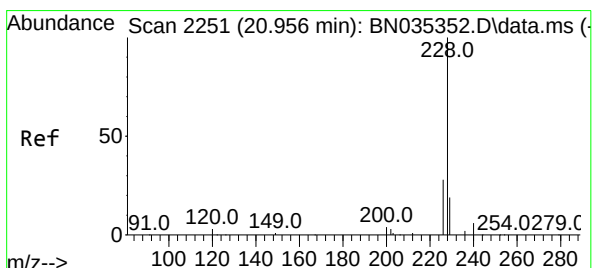
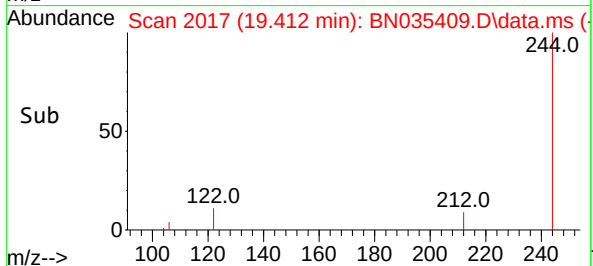
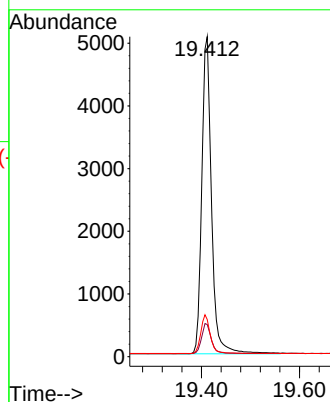
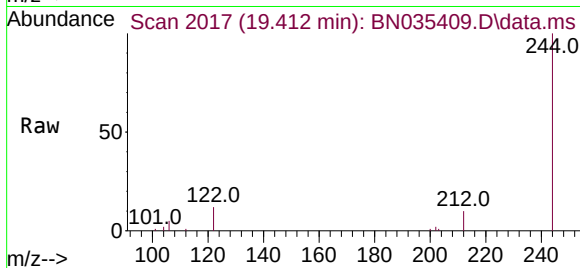
Tgt Ion:244 Resp: 6956

Ion Ratio Lower Upper

244 100

212 10.0 8.1 12.1

122 11.6 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: BN035409.D

Acq: 03 Dec 2024 18:48

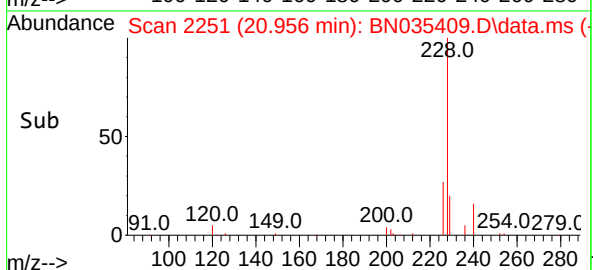
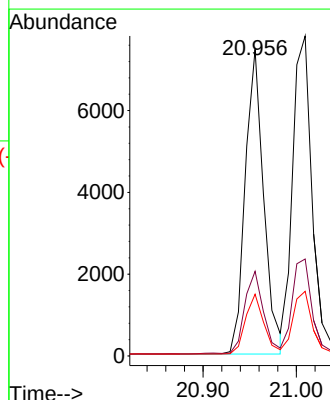
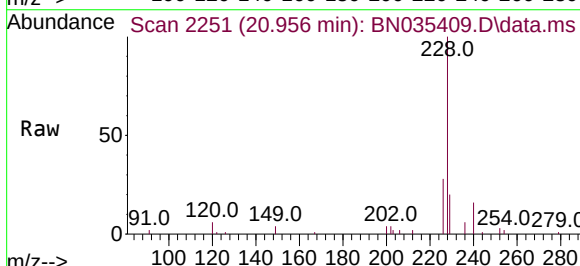
Tgt Ion:228 Resp: 10285

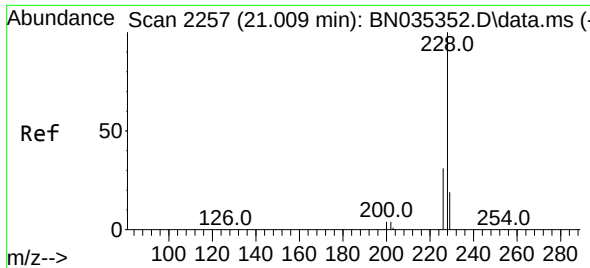
Ion Ratio Lower Upper

228 100

226 27.6 22.5 33.7

229 20.1 15.8 23.8

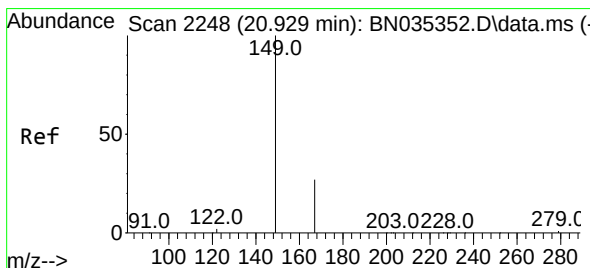
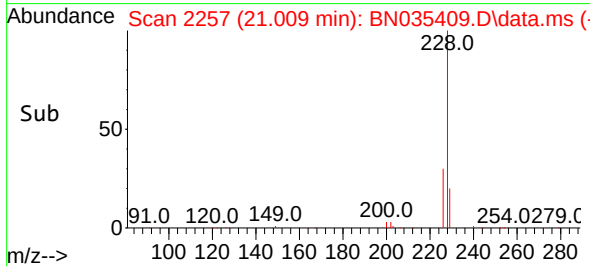
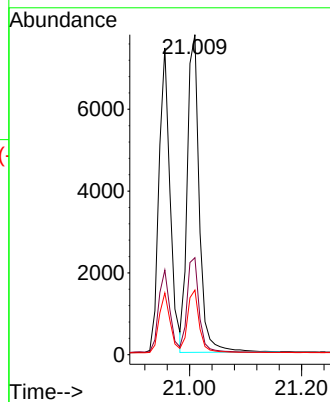
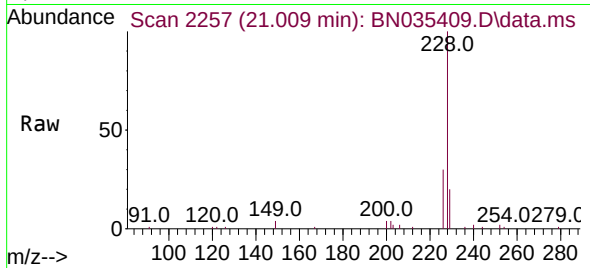




#33  
Chrysene  
Concen: 0.450 ng  
RT: 21.009 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: BN035409.D  
Acq: 03 Dec 2024 18:48

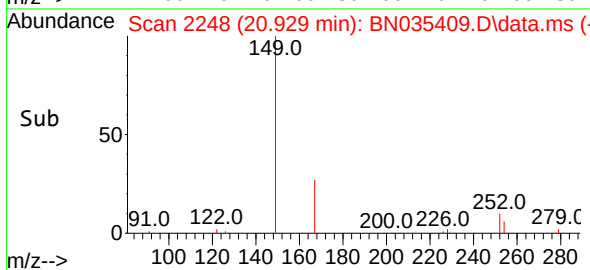
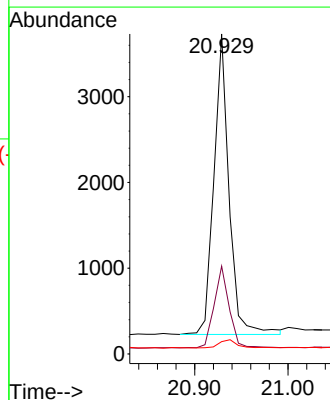
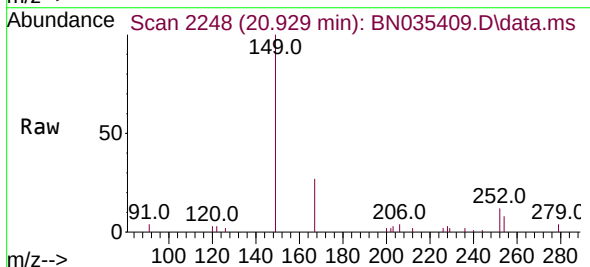
Instrument :  
BNA\_N  
ClientSampleId :  
PB165348BSD

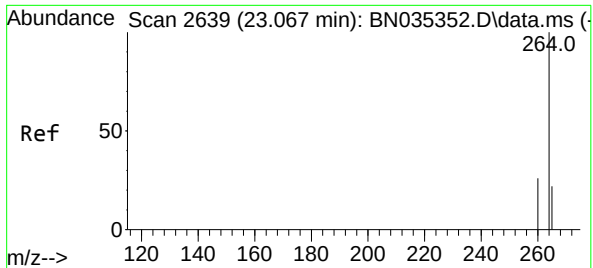
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 11567 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 30.3  | 24.6  | 37.0  |
| 229       | 20.2  | 15.9  | 23.9  |



#34  
Bis(2-ethylhexyl)phthalate  
Concen: 0.400 ng  
RT: 20.929 min Scan# 2248  
Delta R.T. 0.000 min  
Lab File: BN035409.D  
Acq: 03 Dec 2024 18:48

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 149   | Resp: | 3938 |
| Ion Ratio | Lower | Upper |      |
| 149       | 100   |       |      |
| 167       | 27.1  | 22.2  | 33.4 |
| 279       | 3.2   | 2.7   | 4.1  |

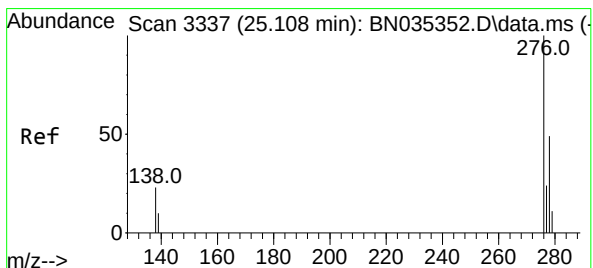
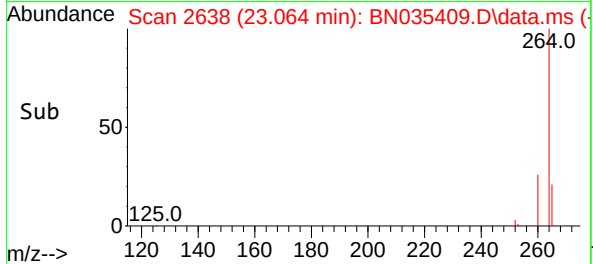
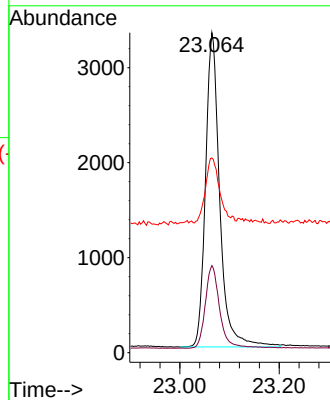
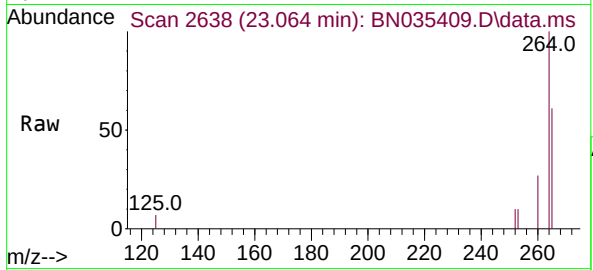




#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.064 min Scan# 20  
Delta R.T. -0.003 min  
Lab File: BN035409.D  
Acq: 03 Dec 2024 18:48

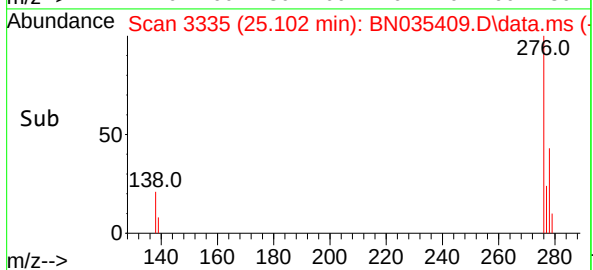
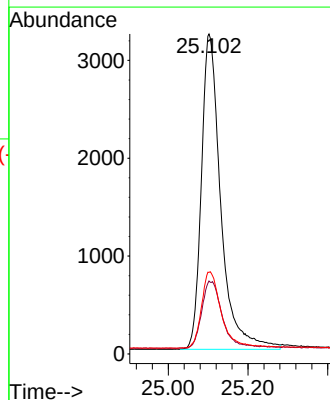
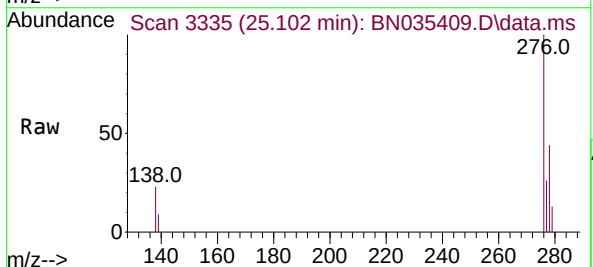
Instrument :  
BNA\_N  
ClientSampleId :  
PB165348BSD

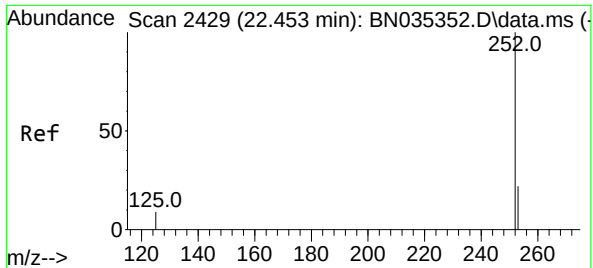
Tgt Ion:264 Resp: 6595  
Ion Ratio Lower Upper  
264 100  
260 27.2 21.4 32.2  
265 60.9 40.2 60.4#



#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.422 ng  
RT: 25.102 min Scan# 3335  
Delta R.T. -0.006 min  
Lab File: BN035409.D  
Acq: 03 Dec 2024 18:48

Tgt Ion:276 Resp: 10891  
Ion Ratio Lower Upper  
276 100  
138 22.6 19.4 29.0  
277 24.5 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.646 ng

RT: 22.451 min Scan# 2429

Delta R.T. -0.003 min

Lab File: BN035409.D

Acq: 03 Dec 2024 18:48

Instrument :

BNA\_N

ClientSampleId :

PB165348BSD

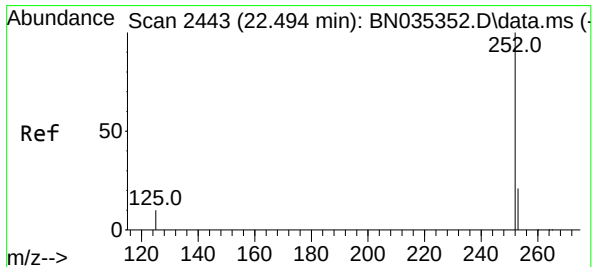
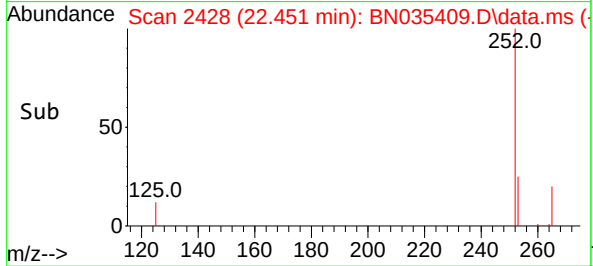
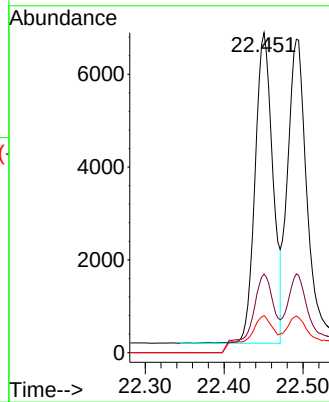
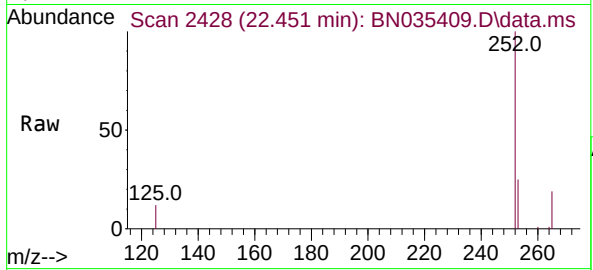
Tgt Ion:252 Resp: 15594

Ion Ratio Lower Upper

252 100

253 24.6 19.6 29.4

125 11.6 9.6 14.4



#38

Benzo(k)fluoranthene

Concen: 0.466 ng

RT: 22.491 min Scan# 2442

Delta R.T. -0.003 min

Lab File: BN035409.D

Acq: 03 Dec 2024 18:48

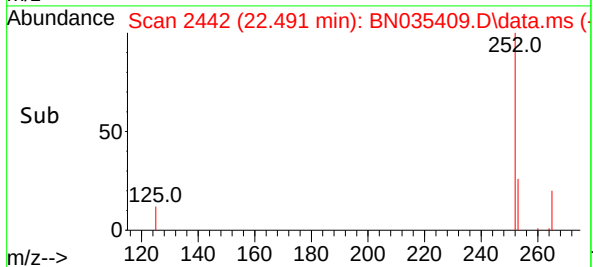
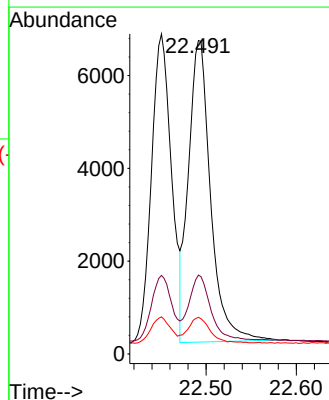
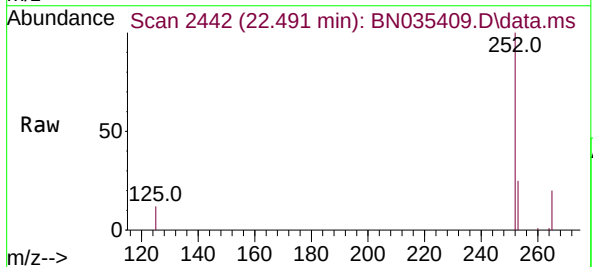
Tgt Ion:252 Resp: 11076

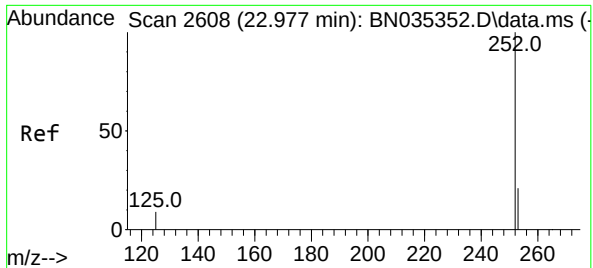
Ion Ratio Lower Upper

252 100

253 25.2 19.5 29.3

125 11.7 10.2 15.4





#39

Benzo(a)pyrene

Concen: 0.452 ng

RT: 22.974 min Scan# 20

Delta R.T. -0.003 min

Lab File: BN035409.D

Acq: 03 Dec 2024 18:48

Instrument :

BNA\_N

ClientSampleId :

PB165348BSD

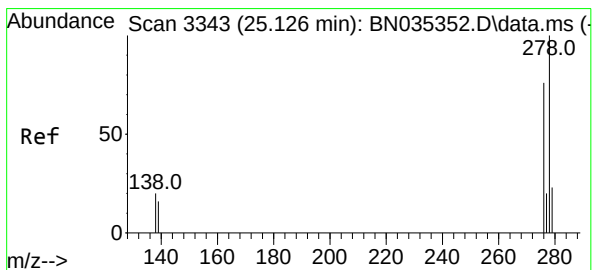
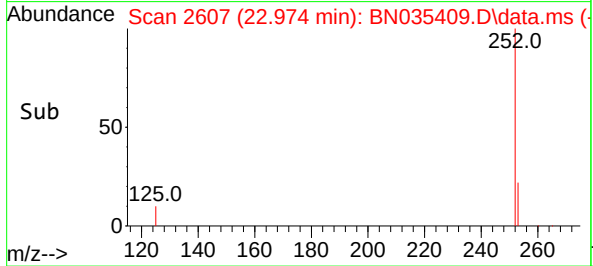
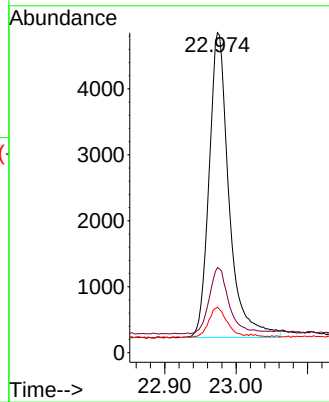
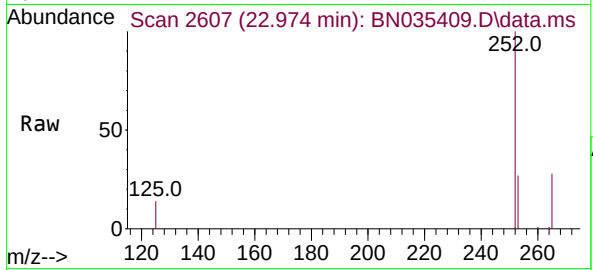
Tgt Ion:252 Resp: 8981

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: 0.411 ng

RT: 25.123 min Scan# 3342

Delta R.T. -0.003 min

Lab File: BN035409.D

Acq: 03 Dec 2024 18:48

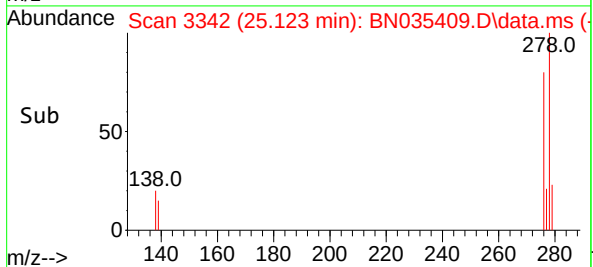
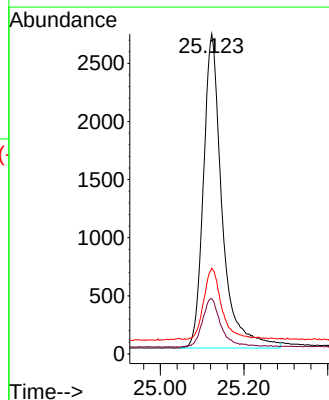
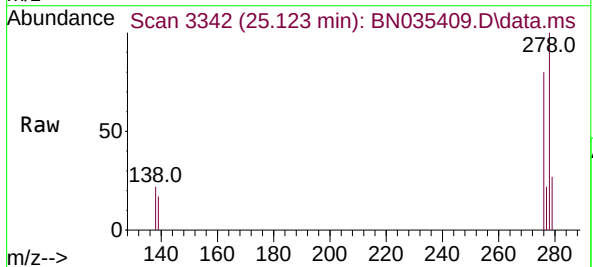
Tgt Ion:278 Resp: 8366

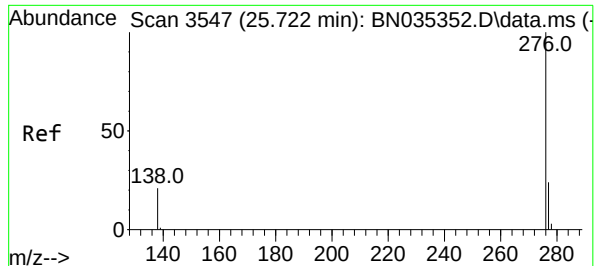
Ion Ratio Lower Upper

278 100

139 17.2 14.2 21.4

279 26.8 20.5 30.7





#41

Benzo(g,h,i)perylene

Concen: 0.413 ng

RT: 25.719 min Scan# 31

Delta R.T. -0.003 min

Lab File: BN035409.D

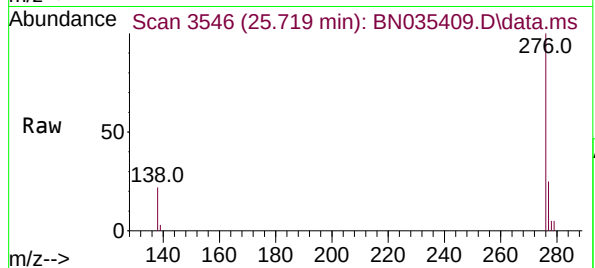
Acq: 03 Dec 2024 18:48

Instrument :

BNA\_N

ClientSampleId :

PB165348BSD



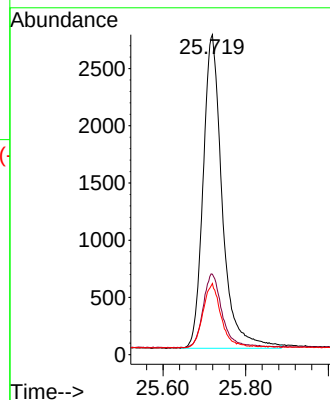
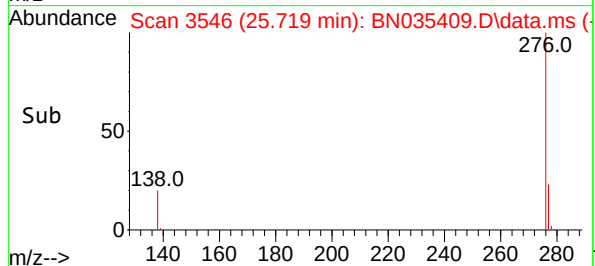
Tgt Ion:276 Resp: 8782

Ion Ratio Lower Upper

276 100

277 25.1 19.9 29.9

138 22.2 17.8 26.8





## 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:

BN120424

Instrument

BNA\_n

| Sample ID  | File ID    | Parameter       | Review By | Review On            | Supervised By | Supervised On        | Reason                      |
|------------|------------|-----------------|-----------|----------------------|---------------|----------------------|-----------------------------|
| SSTDCCC0.4 | BN035406.D | Nitrobenzene-d5 | yogesh    | 12/5/2024 5:46:09 AM | mohammad      | 12/5/2024 6:08:14 AM | Peak Integrated by Software |
| P5065-04   | BN035410.D | Nitrobenzene-d5 | yogesh    | 12/5/2024 5:46:11 AM | mohammad      | 12/5/2024 6:08:14 AM | Peak Integrated by Software |
| P5065-05   | BN035411.D | Nitrobenzene-d5 | yogesh    | 12/5/2024 5:46:12 AM | mohammad      | 12/5/2024 6:08:14 AM | Peak Integrated by Software |
| SSTDCCC0.4 | BN035413.D | Nitrobenzene-d5 | yogesh    | 12/5/2024 5:46:14 AM | mohammad      | 12/5/2024 6:08:14 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 # BN120424**

|                          |                                                  |                   |                                               |
|--------------------------|--------------------------------------------------|-------------------|-----------------------------------------------|
| Review By                | Jagrut                                           | Review On         | 12/4/2024 2:52:48 PM                          |
| Supervise By             | mohammad                                         | Supervise On      | 12/5/2024 6:08:14 AM                          |
| SubDirectory             | BN120424                                         | 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       | BN035405.D     | 03 Dec 2024 15:56 | RC/JU    | Ok     |
| 2   | SSTDCCC0.4  | BN035406.D     | 03 Dec 2024 16:35 | RC/JU    | Ok,M   |
| 3   | PB165348BL  | BN035407.D     | 03 Dec 2024 17:37 | RC/JU    | Ok     |
| 4   | PB165348BS  | BN035408.D     | 03 Dec 2024 18:13 | RC/JU    | Ok     |
| 5   | PB165348BSD | BN035409.D     | 03 Dec 2024 18:48 | RC/JU    | Ok     |
| 6   | P5065-04    | BN035410.D     | 03 Dec 2024 19:24 | RC/JU    | Ok,M   |
| 7   | P5065-05    | BN035411.D     | 03 Dec 2024 20:00 | RC/JU    | Ok,M   |
| 8   | P5065-06    | BN035412.D     | 03 Dec 2024 20:36 | RC/JU    | Ok     |
| 9   | SSTDCCC0.4  | BN035413.D     | 03 Dec 2024 21:11 | 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 |

| 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              | 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 |
| <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             |                                                  |                   |                                           |

|    |             |                    |            |                   |  |       |      |
|----|-------------|--------------------|------------|-------------------|--|-------|------|
| 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 # BN120424**

|              |          |                   |                                           |
|--------------|----------|-------------------|-------------------------------------------|
| Review By    | Jagrut   | Review On         | 12/4/2024 2:52:48 PM                      |
| Supervise By | mohammad | Supervise On      | 12/5/2024 6:08:14 AM                      |
| SubDirectory | BN120424 | 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    | 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               | BN035405.D     | 03 Dec 2024 15:56 |         | RC/JU    | Ok     |
| 2   | SSTDCCC0.4  | SSTDCCC0.4          | BN035406.D     | 03 Dec 2024 16:35 |         | RC/JU    | Ok,M   |
| 3   | PB165348BL  | PB165348BL          | BN035407.D     | 03 Dec 2024 17:37 |         | RC/JU    | Ok     |
| 4   | PB165348BS  | PB165348BS          | BN035408.D     | 03 Dec 2024 18:13 |         | RC/JU    | Ok     |
| 5   | PB165348BSD | PB165348BSD         | BN035409.D     | 03 Dec 2024 18:48 |         | RC/JU    | Ok     |
| 6   | P5065-04    | RW7-SP200-20241202  | BN035410.D     | 03 Dec 2024 19:24 |         | RC/JU    | Ok,M   |
| 7   | P5065-05    | RW7-SP201-20241202  | BN035411.D     | 03 Dec 2024 20:00 |         | RC/JU    | Ok,M   |
| 8   | P5065-06    | RW7-SP300A-20241202 | BN035412.D     | 03 Dec 2024 20:36 |         | RC/JU    | Ok     |
| 9   | SSTDCCC0.4  | SSTDCCC0.4EC        | BN035413.D     | 03 Dec 2024 21:11 |         | RC/JU    | Ok,M   |

M : Manual Integration



**SOP ID:** M3510C,3580A-Extraction SVOC-20

**Clean Up SOP #:** N/A

**Matrix :** Water

**Weigh By:** N/A

**Balance check:** N/A

**Balance ID:** N/A

**pH Strip Lot#:** E3574

**Extraction Method:** ☒ Separatory Funnel ☐ Continuous Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☐ Soxhlet

**Extraction By:** RS

**Filter By:** RS

**pH Meter ID:** N/A

**Hood ID:** 4,6,7

**Extraction Start Date :** 12/03/2024

**Extraction Start Time :** 12:30

**Extraction End Date :** 12/03/2024

**Extraction End Time :** 17:25

**Concentration By:** EH

**Supervisor By :** rajesh

| Standard Name | MLS USED | Concentration ug/mL | STD REF. # FROM LOG |
|---------------|----------|---------------------|---------------------|
| Spike Sol 1   | 1.0ML    | 0.4 PPM             | SP6606              |
| 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            | E3829      |
| Baked Na2SO4       | N/A            | EP2570     |
| 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

**KD Bath Temperature:** 60 °C

**Envap ID:** NEVAP-02

**Envap Temperature:** 40 °C

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|-------------|-----------------------------------------|----------------------|
| 12/3/24     | RP (Ext. Lab)                           | AC/SVOC              |
| 17:30       | Preparation Group                       | Analysis Group       |

Analytical Method: M3510C,3580A-Extraction SVOC-20

Concentration Date: 12/03/2024

| Sample ID       | Client Sample ID    | Test               | g / mL | PH | Surr/Spike By: |            | Final Vol.<br>(mL) | JarID | Comments | Prep<br>Pos |
|-----------------|---------------------|--------------------|--------|----|----------------|------------|--------------------|-------|----------|-------------|
|                 |                     |                    |        |    | AddedBy        | VerifiedBy |                    |       |          |             |
| PB165348BL      | SBLK348             | SVOC-SIMGrou<br>p1 | 1000   | 6  | ritesh         | rajesh     | 1                  |       |          | SEP-01      |
| PB165348BS      | SLCS348             | SVOC-SIMGrou<br>p1 | 1000   | 6  | ritesh         | rajesh     | 1                  |       |          | 2           |
| PB165348BS<br>D | SLCSD348            | SVOC-SIMGrou<br>p1 | 1000   | 6  | ritesh         | rajesh     | 1                  |       |          | 3           |
| P5065-04        | RW7-SP200-20241202  | SVOC-SIMGrou<br>p1 | 970    | 6  | ritesh         | rajesh     | 1                  |       |          | 4           |
| P5065-05        | RW7-SP201-20241202  | SVOC-SIMGrou<br>p1 | 980    | 6  | ritesh         | rajesh     | 1                  |       |          | 5           |
| P5065-06        | RW7-SP300A-20241202 | SVOC-SIMGrou<br>p1 | 990    | 6  | ritesh         | rajesh     | 1                  |       |          | 6           |

\* Extracts relinquished on the same date as received.

12/3/24

P5065-SVOC-SIMGroup1

WORKLIST(Hardcopy Internal Chain)

WorkList Name : p5065      WorkList ID : 185929      Department : Extraction      Date : 12-03-2024 12:27:07

| Sample   | Customer Sample     | Matrix | Test           | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method        |
|----------|---------------------|--------|----------------|--------------|----------|-----------------------------|--------------|---------------|
| P5065-04 | RW7-SP200-20241202  | Water  | SVOC-SIMGroup1 | Cool 4 deg C | TETR06   | L61                         | 12/02/2024   | 8270-Modified |
| P5065-05 | RW7-SP201-20241202  | Water  | SVOC-SIMGroup1 | Cool 4 deg C | TETR06   | L61                         | 12/02/2024   | 8270-Modified |
| P5065-06 | RW7-SP300A-20241202 | Water  | SVOC-SIMGroup1 | Cool 4 deg C | TETR06   | L61                         | 12/02/2024   | 8270-Modified |

Date/Time 12/3/24 12:28  
Raw Sample Received by: RS (Sat 143)  
Raw Sample Relinquished by: SO (SM)

Date/Time 12/3/24 12:50  
Raw Sample Received by: JD (SM)  
Raw Sample Relinquished by: RS (Sat 143)

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

## Prep Standard - Chemical Standard Summary

**Order ID :** P5065  
**Test :** SVOC-SIMGroup1  
**Prepbatch ID :** PB165348,  
**Sequence ID/Qc Batch ID:** BN120424,

**Standard ID :**  
EP2559,EP2565,EP2570,SP6527,SP6573,SP6606,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,E3829,M5173,S10103,S10247,S 11011,S11074,S11097,S11494,S11771,S11831,S12029,S12077,S12079,S12105,S12113,S12126,S12142,S12189,S12207,S12208,S12314,S12328,S12453,S12469,S12517,W3112,

## Extractions STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>                | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u>                      | <u>PipetteID</u> | <u>Supervised By</u>              |
|------------------|----------------------------|------------------------|------------------|------------------------|--------------------|-------------------------------------|------------------|-----------------------------------|
| 1874             | 10 N SODIUM HYDROXIDE SOLN | <a href="#">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 |

**FROM** 1000.00000ml of W3112 + 400.00000gram of E3657 = Final Quantity: 1000.000 ml

| <u>Recipe ID</u> | <u>NAME</u>    | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u>              |
|------------------|----------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|-----------------------------------|
| 314              | 1.1 H2SO4 SOLN | <a href="#">EP2565</a> | 11/20/2024       | 05/20/2025             | Rajesh Parikh      | None           | None             | RUPESHKUMAR<br>SHAH<br>11/20/2024 |

**FROM** 1000.00000ml of M5173 + 1000.00000ml of W3112 = Final Quantity: 2000.000 ml

## Extractions STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>          | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u>                      | <u>PipetteID</u> | <u>Supervised By</u>              |
|------------------|----------------------|------------------------|------------------|------------------------|--------------------|-------------------------------------|------------------|-----------------------------------|
| 3923             | Baked Sodium Sulfate | <a href="#">EP2570</a> | 12/02/2024       | 01/03/2025             | Rajesh Parikh      | Extraction_SC<br>ALE_2<br>(EX-SC-2) | None             | RUPESHKUMAR<br>SHAH<br>12/02/2024 |

**FROM** 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

| <u>Recipe ID</u> | <u>NAME</u>               | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u>         |
|------------------|---------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|------------------------------|
| 3493             | Internal Standard 0.4 PPM | <a href="#">SP6527</a> | 06/10/2024       | 12/05/2024             | Jagrut<br>Upadhyay | None           | None             | mohammad ahmed<br>07/05/2024 |

**FROM** 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="#">SP6606</a> | 08/20/2024       | 02/12/2025             | Rahul Chavli       | None           | None             | mohammad ahmed       |
|                  |                        |                        |                  |                        |                    |                |                  | 08/21/2024           |

**FROM** 0.00160ml of S11011 + 0.02000ml of S11771 + 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

## SVOC STANDARD PREPARATION LOG

| <u>Recipe ID</u>                                                                                                                  | <u>NAME</u>                                    | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|-----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3356                                                                                                                              | 8270-SIM MDL-0.4PPM<br>CALIBRATION SOL ICV-2ND | <a href="#">SP6684</a> | 11/15/2024       | 04/10/2025             | Jagrut Upadhyay    | None           | None             | Yogesh Patel         |
| <p><b>SOURCE</b></p> <p><b>FROM</b> 0.87500ml of E3828 + 0.01000ml of SP6682 + 0.12500ml of SP6683 = Final Quantity: 1.010 ml</p> |                                                |                        |                  |                        |                    |                |                  |                      |

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## CHEMICAL RECEIPT LOG BOOK

| Supplier                    | ItemCode / ItemName                                    | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-----------------------------|--------------------------------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| PCI Scientific Supply, Inc. | PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1 | 313201 | 01/03/2025      | 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) | 24J0862003 | 05/18/2025      | 11/18/2024 / Rajesh     | 11/04/2024 / Rajesh         | E3829          |

| 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 | 02/20/2025      | 08/20/2024 / Rahul      | 11/21/2023 / Rahul          | S11771         |

## 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 511096  
to  
511099

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

| Compound               | CAS No.  | Purity (%) | Compound Lot No. | Concentration, mg/L |
|------------------------|----------|------------|------------------|---------------------|
| 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)

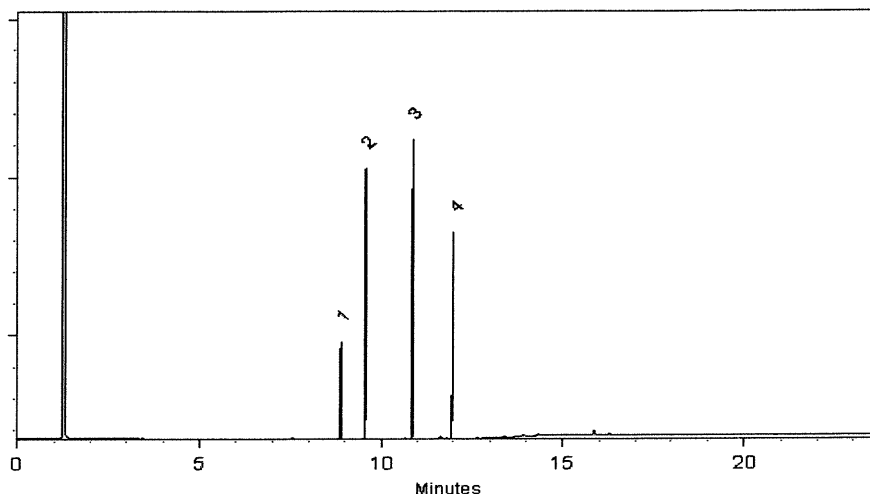
**Carrier Gas:**  
hydrogen-constant pressure 10 psi.

**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



110 Benner Circle  
Bellefonte, PA 16823-8812  
Tel: (800)356-1688  
Fax: (814)353-1309

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# CERTIFIED REFERENCE MATERIAL

## Certificate of Analysis



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received on  
02/08/23

b1  
CG

S 11071  
to  
S 11075

Catalog No. : 31853 Lot No.: A0187043  
Description : 1,4-dioxane  
1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul  
Container Size : 2 mL Pkg Amt: > 1 mL  
Expiration Date : July 31, 2027 Storage: 0°C or colder  
Ship: Ambient

### CERTIFIED VALUES

| Elution Order | Compound                                                      | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2)                                                        |
|---------------|---------------------------------------------------------------|-----------------------------|---------------------------------------------------------------------------------------------|
| 1             | 1,4-Dioxane<br>CAS # 123-91-1<br>Purity 99%<br>(Lot SHBN5929) | 2,019.0 µg/mL               | +/- 11.8486 µg/mL Gravimetric<br>+/- 43.2570 µg/mL Unstressed<br>+/- 44.5129 µg/mL Stressed |

Solvent: Methylene chloride  
CAS # 75-09-2  
Purity 99%

**Column:**

105m x 0.53mm x 3.0µm  
Rtx-502.2 (cat.#10910)

**Carrier Gas:**

hydrogen-constant pressure 11.0 psi.

**Temp. Program:**

40°C (hold 2 min.) to 240°C  
@ 8°C/min. (hold 5 min.)

**Inj. Temp:**

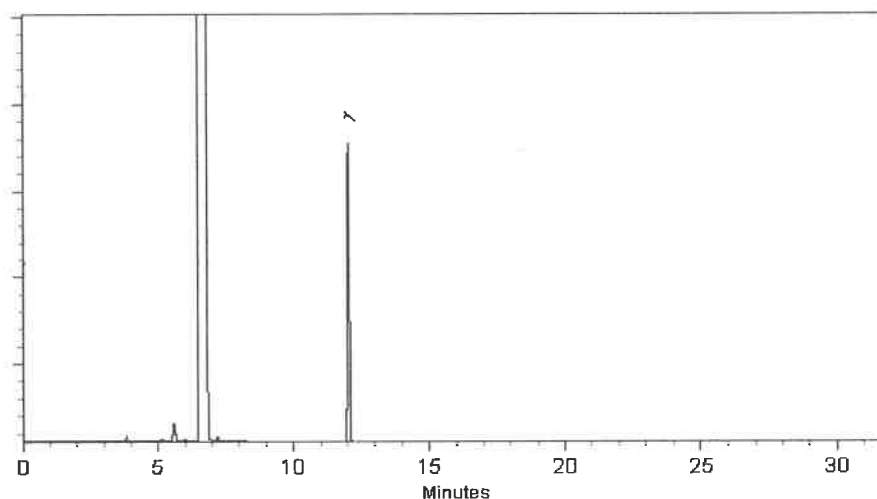
200°C

**Det. Temp:**

250°C

**Det. Type:**

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brittany Federinko - Operations Tech I

Date Mixed: 07-Jul-2022

Balance: 1128360905

Marlina Cowan - Operations Tech II ARM QC

Date Passed: 12-Jul-2022

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397



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/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.



**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.

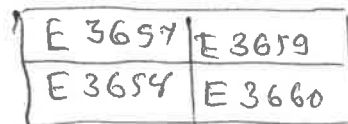
This document has been electronically produced and is valid without a signature.

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)                             | ≤ 5           | < 1      |
| ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)                             | ≤ 10          | 8        |
| Assay (CH <sub>2</sub> Cl <sub>2</sub> ) (by GC, exclusive of preservative, corrected for water) | ≥ 99.8 %      | 99.9 %   |
| Color (APHA)                                                                                     | ≤ 10          | 5        |
| Residue after Evaporation                                                                        | ≤ 1.0 ppm     | 0.1 ppm  |
| Titration Acid (µeq/g)                                                                           | ≤ 0.3         | < 0.1    |
| Chloride (Cl)                                                                                    | ≤ 10 ppm      | < 5 ppm  |
| Water (by KF, coulometric)                                                                       | ≤ 0.02 %      | < 0.01 % |

For Laboratory, Research, or Manufacturing Use  
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD  
  
Country of Origin: 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

Page 1 of 1

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)

Avantor™

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                                                                        | $\leq 1.0$ ppm | 0.3 ppm  |
| Titration Acid ( $\mu$ eq/g)                                                                     | $\leq 0.3$     | < 0.1    |
| Chloride (Cl)                                                                                    | $\leq 10$ ppm  | < 5 ppm  |
| Water (by KF, coulometric)                                                                       | $\leq 0.02 \%$ | < 0.01 % |

For Laboratory, Research, or Manufacturing Use  
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: 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 Heptachlor Epoxide) 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

Acetone  
BAKER RESI-ANALYZED® Reagent  
For Organic Residue Analysis

avantors



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)

avantor™



Material No.: 9266-A4

Batch No.: 24J0862003

Manufactured Date: 2024-09-12

Expiration Date: 2025-12-12

Revision No.: 0

## Certificate of Analysis

| Test                                                                                       | Specification  | Result     |
|--------------------------------------------------------------------------------------------|----------------|------------|
| FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)                       | $\leq 5$       | 2          |
| ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)                        | $\leq 10$      | 1          |
| Assay ( $\text{CH}_2\text{Cl}_2$ ) (by GC, exclusive of preservative, corrected for water) | $\geq 99.8\%$  | 100.0 %    |
| Color (APHA)                                                                               | $\leq 10$      | 5          |
| Residue after Evaporation                                                                  | $\leq 1.0$ ppm | 0.2 ppm    |
| Titration Acid ( $\mu\text{eq/g}$ )                                                        | $\leq 0.3$     | $< 0.1$    |
| Chloride (Cl)                                                                              | $\leq 10$ ppm  | $< 5$ ppm  |
| Water (by KF, coulometric)                                                                 | $\leq 0.02\%$  | $< 0.01\%$ |

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E 3828

Jamie Croak  
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700



11/6/24

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 HeptachlorEpoxide) Single Peak (pg/mL)                        | $\leq 10$      | 1          |
| Assay ( $\text{CH}_2\text{Cl}_2$ ) (by GC, exclusive of preservative, corrected for water) | $\geq 99.8\%$  | 100.0 %    |
| Color (APHA)                                                                               | $\leq 10$      | 5          |
| Residue after Evaporation                                                                  | $\leq 1.0$ ppm | 0.2 ppm    |
| Titration Acid ( $\mu\text{eq/g}$ )                                                        | $\leq 0.3$     | $< 0.1$    |
| Chloride (Cl)                                                                              | $\leq 10$ ppm  | $< 5$ ppm  |
| Water (by KF, coulometric)                                                                 | $\leq 0.02\%$  | $< 0.01\%$ |

For Laboratory, Research, or Manufacturing Use  
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States  
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3829



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

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

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



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:**

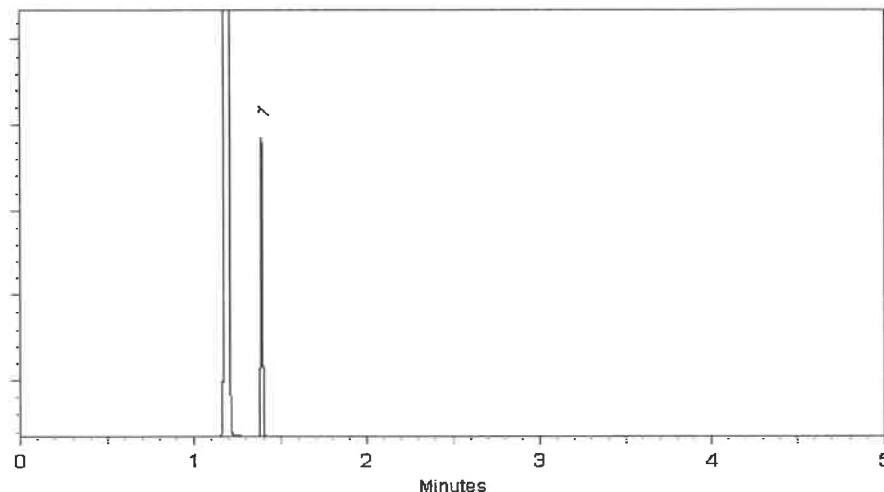
FID

**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.

|    |
|----|
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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. :** 33913 **Lot No.:** A0201976  
**Description :** SOM01.0 SIM Analysis Standard  
SOM01.0 SIM Analysis Standard 2000µg/mL, Methylene chloride, 1mL /ampul  
**Container Size :** 2 mL **Pkg Amt:** > 1 mL  
**Expiration Date :** August 31, 2029 **Storage:** 10°C or colder  
**Handling:** Sonication required. Mix is photosensitive. **Ship:** Ambient

S11828  
↓  
S11832 } RC/  
11/30/23

## CERTIFIED VALUES

| Elution Order | Compound                | CAS #      | Lot #    | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|-------------------------|------------|----------|--------|-----------------------------|----------------------------------------|
| 1             | 2-Methylnaphthalene-d10 | 7297-45-2  | EF-135   | 98%    | 2,015.9 µg/mL               | +/- 90.8098                            |
| 2             | Fluoranthene-d10        | 93951-69-0 | PR-32557 | 99%    | 2,020.0 µg/mL               | +/- 90.9963                            |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%



## Quality Confirmation Test

**Column:**

30m x 0.25mm x 0.25µm  
Rtx-5 (cat.#10223)

**Carrier Gas:**

hydrogen-constant pressure 10 psi.

**Temp. Program:**

75°C (hold 1 min.) to 330°C  
@ 20°C/min. (hold 10 min.)

**Inj. Temp:**

250°C

**Det. Temp:**

330°C

**Det. Type:**

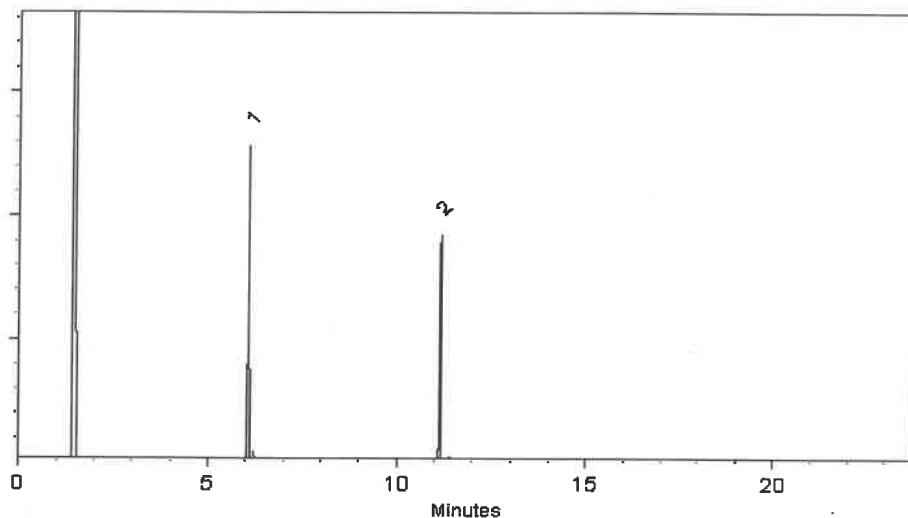
FID

**Split Vent:**

10 ml/min.

**Inj. Vol**

1µl

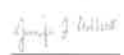


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

  
Dakota Parson - Operations Technician I

Date Mixed: 13-Sep-2023

Balance Serial # B442140311

  
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 28-Sep-2023

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

$k$  is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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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:**

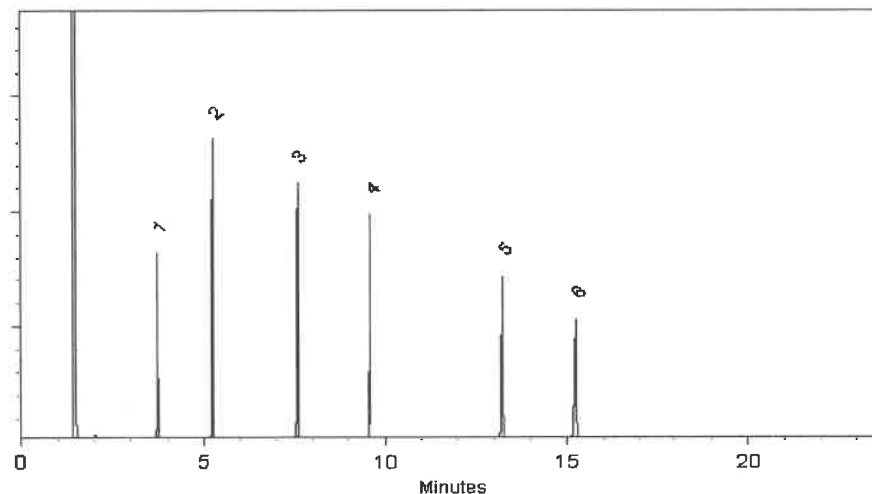
FID

**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

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|                     |                 |                 |                    |                   |                                           |
|---------------------|-----------------|-----------------|--------------------|-------------------|-------------------------------------------|
| <b>Catalog No.:</b> | <b>Lot No.:</b> | <b>Storage:</b> | <b>Solvent:</b>    | <b>Exp. Date:</b> | <b>Description:</b>                       |
| Z-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          |

S12075 } RC  
↓  
S12079 } 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  
(800)878-7654 Toll Free  
(707)545-7901 Fax

Manufacturer's Quality System  
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by TUV USA to ISO 9001:2015

Date Received: \_\_\_\_\_

## Certificate of Analysis

Rev 0

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|                     |                 |                 |                    |                   |                                           |
|---------------------|-----------------|-----------------|--------------------|-------------------|-------------------------------------------|
| <b>Catalog No.:</b> | <b>Lot No.:</b> | <b>Storage:</b> | <b>Solvent:</b>    | <b>Exp. Date:</b> | <b>Description:</b>                       |
| Z-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          |

S12075 } RC  
↓  
S12079 } 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.



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. :** 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  
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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

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|              |          |          |              |            |                                          |
|--------------|----------|----------|--------------|------------|------------------------------------------|
| Catalog No.: | Lot No.: | Storage: | Solvent:     | Exp. Date: | Description:                             |
| Z-020223-01  | 454157   | ≤ -10 °C | P/T Methanol | 6/10/2026  | 1,4-Dioxane Solution, 2000 mg/L,<br>1 mL |

| Compound    | CAS No.  | Purity (%) | Compound Lot No. | Concentration, mg/L |
|-------------|----------|------------|------------------|---------------------|
| 1,4-dioxane | 123-91-1 | 100        | 223.1.3P         | 1997 ± 57.08        |

512112 } RC/  
↓  
912116 } 03/08/24

\*Not a certified value

Certified By: \_\_\_\_\_

Melissa Workoff  
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.  
Concentration (correct for purity) and uncertainty (95% confidence) values  
listed are determined gravimetrically.





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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. :** 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 | 1  |
| 19 | 2-Nitrophenol                                 | 88-75-5   | RP230710    | 99% | 1,003.2 | µg/mL | +/- 36.4998 | 2  |
| 20 | 2,4-Dimethylphenol                            | 105-67-9  | XW5GK       | 99% | 1,003.8 | µg/mL | +/- 36.5200 | 3  |
| 21 | Bis(2-chloroethoxy)methane                    | 111-91-1  | 13670200    | 99% | 1,002.1 | µg/mL | +/- 36.4573 | 4  |
| 22 | 2,4-Dichlorophenol                            | 120-83-2  | BCBZ6787    | 99% | 1,003.7 | µg/mL | +/- 36.5180 | 5  |
| 23 | 1,2,4-Trichlorobenzene                        | 120-82-1  | SHBP5900    | 99% | 1,007.6 | µg/mL | +/- 36.6574 | 6  |
| 24 | Naphthalene                                   | 91-20-3   | STBL1057    | 99% | 1,008.3 | µg/mL | +/- 36.6837 | 7  |
| 25 | 4-Chloroaniline                               | 106-47-8  | BCCJ3217    | 99% | 1,001.3 | µg/mL | +/- 36.4290 | 8  |
| 26 | Hexachlorobutadiene                           | 87-68-3   | RP230823RSR | 98% | 1,008.3 | µg/mL | +/- 36.6829 | 9  |
| 27 | 4-Chloro-3-methylphenol                       | 59-50-7   | BCCD4461    | 99% | 1,003.1 | µg/mL | +/- 36.4937 | 10 |
| 28 | 2-Methylnaphthalene                           | 91-57-6   | STBK0259    | 96% | 1,001.9 | µg/mL | +/- 36.4505 | 11 |
| 29 | 1-Methylnaphthalene                           | 90-12-0   | 5234.00-8   | 98% | 1,000.0 | µg/mL | +/- 36.3838 | 12 |
| 30 | Hexachlorocyclopentadiene                     | 77-47-4   | 099063I14L  | 98% | 1,008.5 | µg/mL | +/- 36.6909 | 13 |
| 31 | 2,4,6-Trichlorophenol                         | 88-06-2   | STBJ5914    | 99% | 1,004.4 | µg/mL | +/- 36.5442 | 14 |
| 32 | 2,4,5-Trichlorophenol                         | 95-95-4   | FHN01       | 98% | 1,001.9 | µg/mL | +/- 36.4512 | 15 |
| 33 | 2-Chloronaphthalene                           | 91-58-7   | RPN7O       | 99% | 1,001.1 | µg/mL | +/- 36.4230 | 16 |
| 34 | 2-Nitroaniline                                | 88-74-4   | RP230531    | 99% | 1,002.9 | µg/mL | +/- 36.4876 | 17 |
| 35 | 1,4-Dinitrobenzene                            | 100-25-4  | RP230816    | 99% | 1,005.7 | µg/mL | +/- 36.5887 | 18 |
| 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 | BCCK0887      | 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%

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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. :** 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 | 1  |
| 19 | 2-Nitrophenol                                 | 88-75-5   | RP230710    | 99% | 1,003.2 | µg/mL | +/- 36.4998 | 2  |
| 20 | 2,4-Dimethylphenol                            | 105-67-9  | XW5GK       | 99% | 1,003.8 | µg/mL | +/- 36.5200 | 3  |
| 21 | Bis(2-chloroethoxy)methane                    | 111-91-1  | 13670200    | 99% | 1,002.1 | µg/mL | +/- 36.4573 | 4  |
| 22 | 2,4-Dichlorophenol                            | 120-83-2  | BCBZ6787    | 99% | 1,003.7 | µg/mL | +/- 36.5180 | 5  |
| 23 | 1,2,4-Trichlorobenzene                        | 120-82-1  | SHBP5900    | 99% | 1,007.6 | µg/mL | +/- 36.6574 | 6  |
| 24 | Naphthalene                                   | 91-20-3   | STBL1057    | 99% | 1,008.3 | µg/mL | +/- 36.6837 | 7  |
| 25 | 4-Chloroaniline                               | 106-47-8  | BCCJ3217    | 99% | 1,001.3 | µg/mL | +/- 36.4290 | 8  |
| 26 | Hexachlorobutadiene                           | 87-68-3   | RP230823RSR | 98% | 1,008.3 | µg/mL | +/- 36.6829 | 9  |
| 27 | 4-Chloro-3-methylphenol                       | 59-50-7   | BCCD4461    | 99% | 1,003.1 | µg/mL | +/- 36.4937 | 10 |
| 28 | 2-Methylnaphthalene                           | 91-57-6   | STBK0259    | 96% | 1,001.9 | µg/mL | +/- 36.4505 | 11 |
| 29 | 1-Methylnaphthalene                           | 90-12-0   | 5234.00-8   | 98% | 1,000.0 | µg/mL | +/- 36.3838 | 12 |
| 30 | Hexachlorocyclopentadiene                     | 77-47-4   | 099063I14L  | 98% | 1,008.5 | µg/mL | +/- 36.6909 | 13 |
| 31 | 2,4,6-Trichlorophenol                         | 88-06-2   | STBJ5914    | 99% | 1,004.4 | µg/mL | +/- 36.5442 | 14 |
| 32 | 2,4,5-Trichlorophenol                         | 95-95-4   | FHN01       | 98% | 1,001.9 | µg/mL | +/- 36.4512 | 15 |
| 33 | 2-Chloronaphthalene                           | 91-58-7   | RPN7O       | 99% | 1,001.1 | µg/mL | +/- 36.4230 | 16 |
| 34 | 2-Nitroaniline                                | 88-74-4   | RP230531    | 99% | 1,002.9 | µg/mL | +/- 36.4876 | 17 |
| 35 | 1,4-Dinitrobenzene                            | 100-25-4  | RP230816    | 99% | 1,005.7 | µg/mL | +/- 36.5887 | 18 |
| 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%

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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

chromatographic plus



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31087 **Lot No.:** A0206206  
**Description :** Acid Surrogate Mix (4/89 SOW)  
Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul  
**Container Size :** 5 mL **Pkg Amt:** > 5 mL  
**Expiration Date :** January 31, 2032 **Storage:** 10°C or colder  
**Ship:** Ambient

512187 } RC/  
↓  
512206 } 03/18/24

### CERTIFIED VALUES

| Elution Order | Compound             | CAS #      | Lot #       | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|----------------------|------------|-------------|--------|-----------------------------|----------------------------------------|
| 1             | 2-Fluorophenol       | 367-12-4   | STBK1705    | 99%    | 10,005.3 µg/mL              | +/- 302.5390                           |
| 2             | Phenol-d6            | 13127-88-3 | PR-33287A   | 99%    | 10,005.5 µg/mL              | +/- 302.5475                           |
| 3             | 2,4,6-Tribromophenol | 118-79-6   | RP230831RSR | 99%    | 10,006.6 µg/mL              | +/- 302.5783                           |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methanol  
**CAS #** 67-56-1  
**Purity** 99%

## Quality Confirmation Test

**Column:**

30m x 0.25mm x 0.25µm  
Rtx-5 (cat.#10223)

**Carrier Gas:**

hydrogen-constant pressure 10 psi.

**Temp. Program:**

40°C (hold 2 min.) to 330°C  
@ 10°C/min. (hold 10 min.)

**Inj. Temp:**

250°C

**Det. Temp:**

330°C

**Det. Type:**

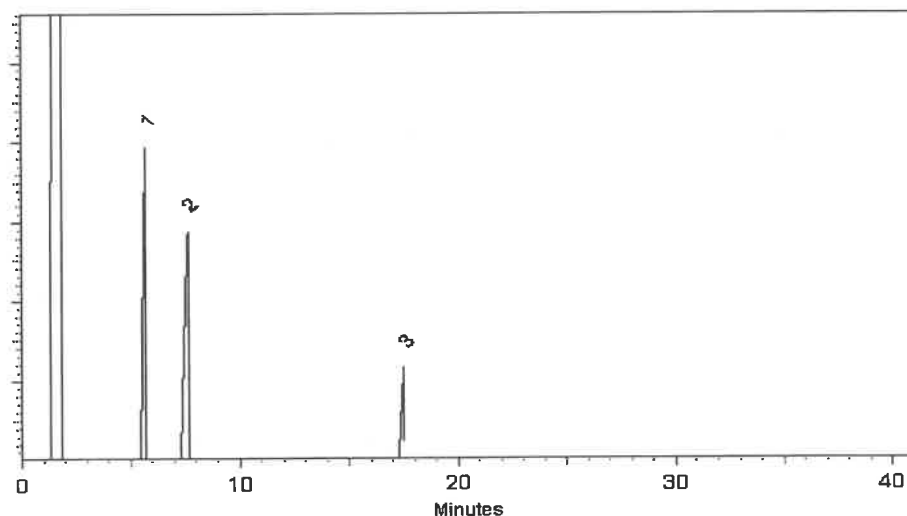
FID

**Split Vent:**

2 ml/min.

**Inj. Vol**

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

*Penelope A. Riglin*

Penelope Riglin - Operations Tech I

*Christie Mills*

Christie Mills - Operations Lead Tech - ARM QC

Date Mixed: 04-Jan-2024

Balance Serial # 1128360905

Date Passed: 08-Jan-2024

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397



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### 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:**

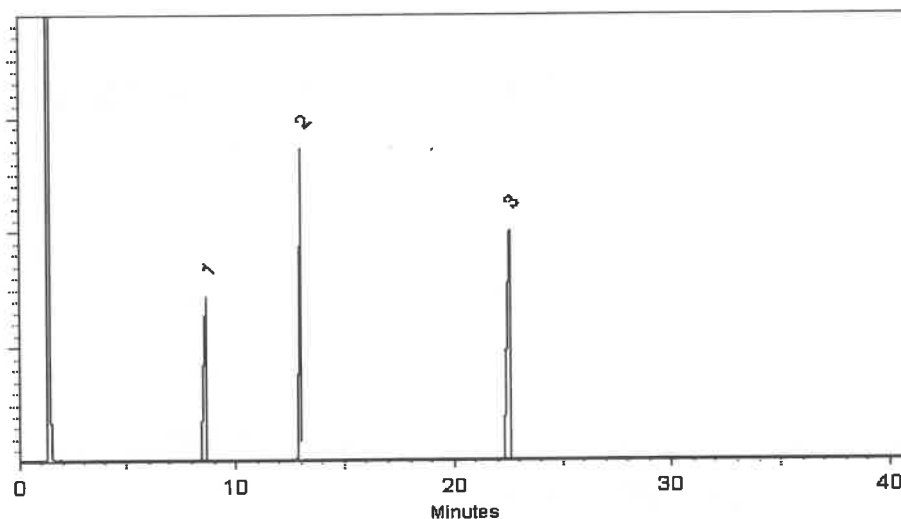
FID

**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/  
↓ 03/18/24  
S12221 }

### CERTIFIED VALUES

| Elution Order | Compound         | CAS #     | Lot #    | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|------------------|-----------|----------|--------|-----------------------------|----------------------------------------|
| 1             | Nitrobenzene-d5  | 4165-60-0 | I-25158  | 99%    | 5,029.3 µg/mL               | +/- 226.5204                           |
| 2             | 2-Fluorobiphenyl | 321-60-8  | 00021384 | 99%    | 5,030.9 µg/mL               | +/- 226.5936                           |
| 3             | p-Terphenyl-d14  | 1718-51-0 | PR-32599 | 99%    | 5,026.4 µg/mL               | +/- 226.3909                           |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

### Tech Tips:

Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

# Quality Confirmation Test

**Column:**

30m x 0.25mm x 0.25µm  
Rtx-S (cat.#10223)

**Carrier Gas:**

hydrogen-constant pressure 10 psi.

**Temp. Program:**

40°C (hold 2 min.) to 330°C  
@ 10°C/min. (hold 10 min.)

**Inj. Temp:**

250°C

**Det. Temp:**

330°C

**Det. Type:**

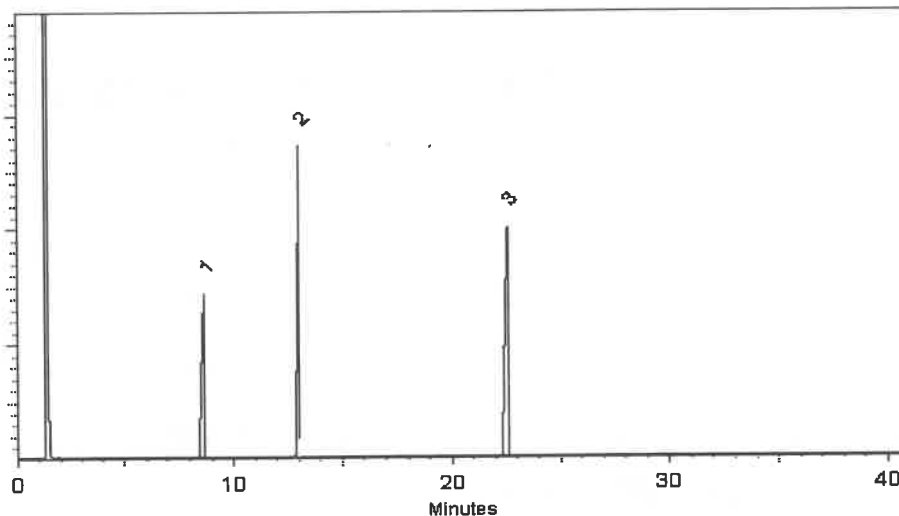
FID

**Split Vent:**

2 ml/min.

**Inj. Vol**

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Jennifer Pollino - Operations Tech III - ARM QC

Date Mixed: 09-Jan-2024

Balance Serial # 1128360905

Date Passed: 11-Jan-2024

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397



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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:**

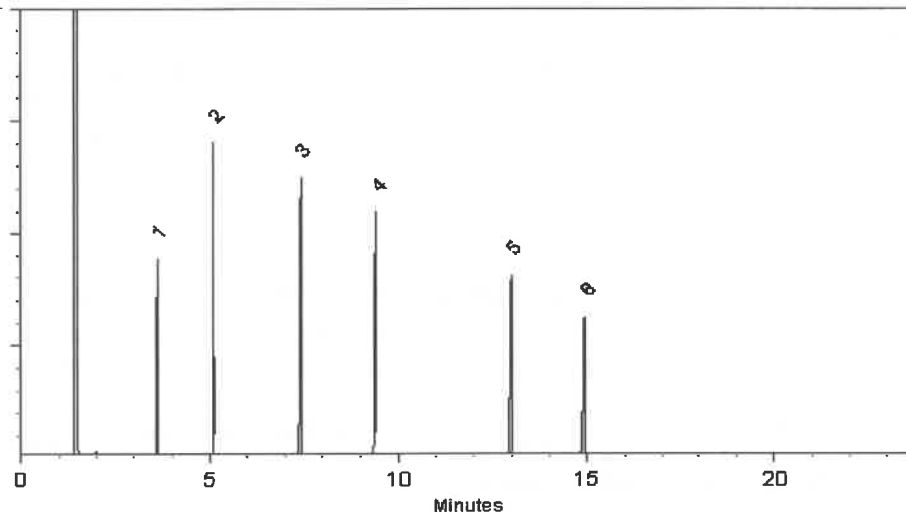
FID

**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  
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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:**

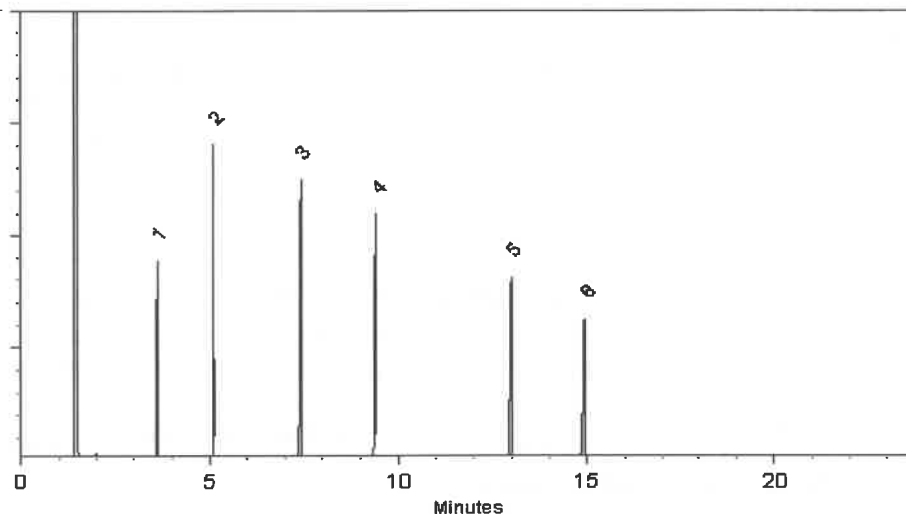
FID

**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

gravimetric



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 555223 **Lot No.:** A0214021

**Description :** Custom 8270 Plus Standard #1  
Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** July 31, 2026 **Storage:** 10°C or colder

**Handling:** This product is photosensitive. **Ship:** Ambient

### CERTIFIED VALUES

| Component # | Compound               | CAS #     | Lot #      | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|-------------|------------------------|-----------|------------|--------|-----------------------------|----------------------------------------|
| 1           | 3,3'-Dichlorobenzidine | 91-94-1   | S240326RSR | 99%    | 1,004.0 µg/mL               | +/- 23.0487                            |
| 2           | Atrazine               | 1912-24-9 | 5FYWL      | 99%    | 1,005.0 µg/mL               | +/- 23.0717                            |
| 3           | Benzidine              | 92-87-5   | S240430RSR | 99%    | 1,006.0 µg/mL               | +/- 23.0947                            |
| 4           | epsilon-Caprolactam    | 105-60-2  | Y16H012    | 99%    | 1,000.0 µg/mL               | +/- 22.9569                            |

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

S12449 } RC/  
↓  
S12508 } 7/24/24

Rebecca Gingerich - Operations Tech II

**Date Mixed:** 18-Jul-2024

**Balance:** 1128353505

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

$k$  is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

gravimetric



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 555223 **Lot No.:** A0214021

**Description :** Custom 8270 Plus Standard #1  
Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** July 31, 2026 **Storage:** 10°C or colder

**Handling:** This product is photosensitive. **Ship:** Ambient

### CERTIFIED VALUES

| Component # | Compound               | CAS #     | Lot #      | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|-------------|------------------------|-----------|------------|--------|-----------------------------|----------------------------------------|
| 1           | 3,3'-Dichlorobenzidine | 91-94-1   | S240326RSR | 99%    | 1,004.0 µg/mL               | +/- 23.0487                            |
| 2           | Atrazine               | 1912-24-9 | 5FYWL      | 99%    | 1,005.0 µg/mL               | +/- 23.0717                            |
| 3           | Benzidine              | 92-87-5   | S240430RSR | 99%    | 1,006.0 µg/mL               | +/- 23.0947                            |
| 4           | epsilon-Caprolactam    | 105-60-2  | Y16H012    | 99%    | 1,000.0 µg/mL               | +/- 22.9569                            |

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

S12449 } RC/  
↓  
S12508 } 7/24/24

Rebecca Gingerich - Operations Tech II

**Date Mixed:** 18-Jul-2024

**Balance:** 1128353505

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

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- 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.
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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.



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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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- 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.
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# SHIPPING DOCUMENTS

- 1
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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------------------------------------------------------------|--------------|
| <b>CHEMTECH</b><br>CHAIN OF CUSTODY RECORD                                                                                                                                           |                                  | 284 Sheffield Street, Mountainside, NJ 07092<br>(908) 789-8900 Fax: (908) 78-8922<br>www.chemtech.net                                                                                                                                                                                                                                                                                          |                             | Chemtech Project Number: <span style="font-size: 1.2em;">P5065</span> |              |
|                                                                                                                                                                                      |                                  |                                                                                                                                                                                                                                                                                                                                                                                                |                             | COC Number:                                                           |              |
| <b>CLIENT INFORMATION</b>                                                                                                                                                            |                                  | <b>PROJECT INFORMATION</b>                                                                                                                                                                                                                                                                                                                                                                     |                             | <b>BILLING INFORMATION</b>                                            |              |
| COMPANY: Tetra Tech                                                                                                                                                                  |                                  | PROJECT NAME: NWIRP Bethpage                                                                                                                                                                                                                                                                                                                                                                   |                             | BILL TO: PO#                                                          |              |
| ADDRESS: 4433 Corporation Ln, Suite 300                                                                                                                                              |                                  | PROJECT #: 112G08005-WE13 LOCATION: RW7B                                                                                                                                                                                                                                                                                                                                                       |                             | ADDRESS:                                                              |              |
| CITY: Virginia Beach STATE: VA ZIP: 23462                                                                                                                                            |                                  | PROJECT MANAGER: Ernie Wu                                                                                                                                                                                                                                                                                                                                                                      |                             | CITY: STATE: ZIP:                                                     |              |
| ATTENTION: Ernie Wu                                                                                                                                                                  |                                  | E-MAIL: ernie.wu@tetratech.com                                                                                                                                                                                                                                                                                                                                                                 |                             | ATTENTION: PHONE:                                                     |              |
| PHONE: 757-466-4901 FAX: 757-461-4148                                                                                                                                                |                                  | PHONE: 757-466-4901 FAX: 757-461-4148                                                                                                                                                                                                                                                                                                                                                          |                             |                                                                       |              |
| <b>DATA TURNAROUND INFORMATION</b>                                                                                                                                                   |                                  | <b>DATA DELIVERABLE INFORMATION</b>                                                                                                                                                                                                                                                                                                                                                            |                             | <b>ANALYSIS</b>                                                       |              |
| FAX: _____ 48 hrs _____ DAYS*<br>HARD COPY: _____ 48 hrs _____ DAYS*<br>EDD _____ 48 hrs _____ 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 SW646 8270<br>SM                                          |              |
|                                                                                                                                                                                      |                                  |                                                                                                                                                                                                                                                                                                                                                                                                |                             |                                                                       |              |
|                                                                                                                                                                                      |                                  |                                                                                                                                                                                                                                                                                                                                                                                                |                             | <b>PRESERVATIVES</b>                                                  |              |
|                                                                                                                                                                                      |                                  |                                                                                                                                                                                                                                                                                                                                                                                                |                             | <b>COMMENTS</b>                                                       |              |
| CHEMTECH<br>SAMPLE<br>ID                                                                                                                                                             | PROJECT<br>SAMPLE IDENTIFICATION | SAMPLE<br>MATRIX                                                                                                                                                                                                                                                                                                                                                                               | SAMPLE<br>TYPE<br>COMP GRAB | SAMPLE<br>COLLECTION<br>DATE TIME                                     | # of Bottles |
|                                                                                                                                                                                      |                                  |                                                                                                                                                                                                                                                                                                                                                                                                |                             |                                                                       |              |
| 1.                                                                                                                                                                                   | RW7-SP200-20241202               | GW                                                                                                                                                                                                                                                                                                                                                                                             |                             | 12/2/24 14:25                                                         | 1            |
| 2.                                                                                                                                                                                   | RW7-SP201-20241202               | GW                                                                                                                                                                                                                                                                                                                                                                                             |                             | 12/2/24 14:27                                                         | 1            |
| 3.                                                                                                                                                                                   | RW7-SP300A-20241202              | GW                                                                                                                                                                                                                                                                                                                                                                                             |                             | 12/2/24 14:29                                                         | 1            |
| 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                                           | Conditions of bottles or coolers at receipt: <input type="checkbox"/> Compliant <input type="checkbox"/> Non Compliant <input type="checkbox"/> Cooler Temp <span style="font-size: 1.2em;">2.1°C</span><br>MeOH extraction requires an additional 4oz. Jar for percent solid <input type="checkbox"/> Ice in Cooler? <span style="font-size: 1.2em;">YES</span><br>Comments: |  |  |
| 1. <span style="font-size: 1.2em;">[Signature]</span>                                                  | <span style="font-size: 1.2em;">12/4/24/15</span> | 1. <span style="font-size: 1.2em;">[Signature]</span> |                                                                                                                                                                                                                                                                                                                                                                               |  |  |
| RELINQUISHED BY                                                                                        | DATE/TIME                                         | RECEIVED BY                                           |                                                                                                                                                                                                                                                                                                                                                                               |  |  |
| 2. <span style="font-size: 1.2em;">[Signature]</span>                                                  | <span style="font-size: 1.2em;">9:50</span>       | 2. <span style="font-size: 1.2em;">[Signature]</span> | SHIPPED VIA: CLIENT: <input type="checkbox"/> Hand Delivered <input type="checkbox"/> Overnight<br>CHEMTECH: <input type="checkbox"/> Picked Up <input type="checkbox"/> Overnight                                                                                                                                                                                            |  |  |
| RELINQUISHED BY                                                                                        | DATE/TIME                                         | RECEIVED FOR LAB BY                                   |                                                                                                                                                                                                                                                                                                                                                                               |  |  |
| 3. <span style="font-size: 1.2em;">[Signature]</span>                                                  | <span style="font-size: 1.2em;">12-3-24</span>    | 3. <span style="font-size: 1.2em;">[Signature]</span> | Shipment Complete<br><input type="checkbox"/> YES <input type="checkbox"/> NO                                                                                                                                                                                                                                                                                                 |  |  |
| RELINQUISHED BY                                                                                        | DATE/TIME                                         | RECEIVED FOR LAB BY                                   |                                                                                                                                                                                                                                                                                                                                                                               |  |  |
| 3.                                                                                                     |                                                   |                                                       |                                                                                                                                                                                                                                                                                                                                                                               |  |  |

Page \_\_\_\_\_ of \_\_\_\_\_

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT
YELLOW - CHEMTECH COPY
PINK - SAMPLER COPY

**Laboratory Certification**

| Certified By         | License No.      |
|----------------------|------------------|
|                      |                  |
| CAS EPA CLP Contract | 68HERH20D0011    |
|                      |                  |
| Connecticut          | PH-0830          |
|                      |                  |
| DOD ELAP (ANAB)      | L2219            |
|                      |                  |
| Maine                | 2024021          |
|                      |                  |
| Maryland             | 296              |
|                      |                  |
| New Hampshire        | 255424 Rev 1     |
|                      |                  |
| New Jersey           | 20012            |
|                      |                  |
| New York             | 11376            |
|                      |                  |
| Pennsylvania         | 68-00548         |
|                      |                  |
| Soil Permit          | 525-24-234-08441 |
|                      |                  |
| Texas                | T104704488       |

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

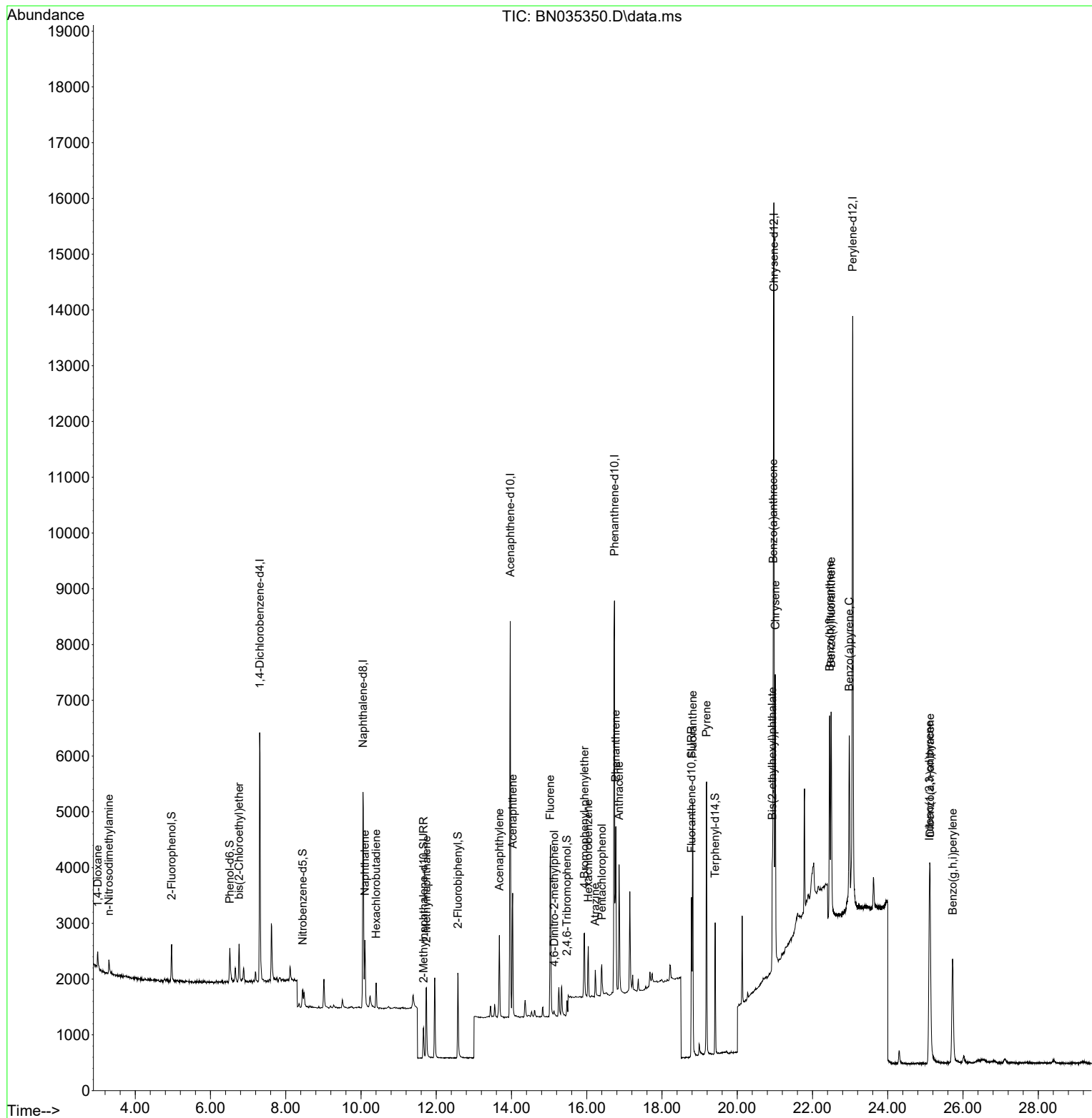
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.308  | 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     |

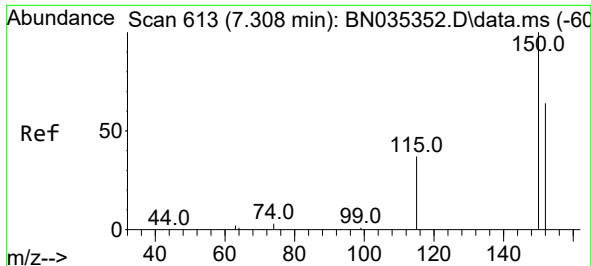
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Data File : BN035350.D  
Acq On : 27 Nov 2024 15:34  
Operator : RC/JU  
Sample : SSTDICC0.1  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

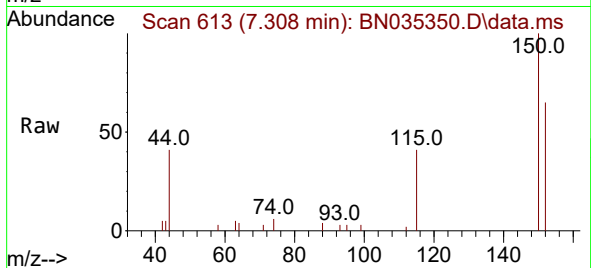
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QLast Update : Wed Nov 27 22:48:24 2024  
Response via : Initial Calibration



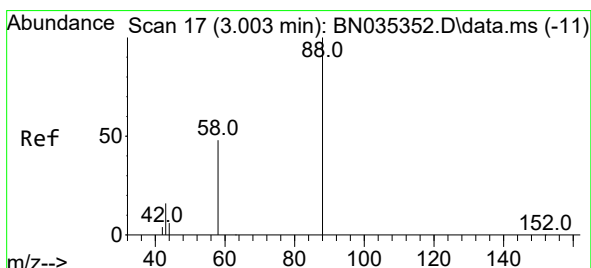
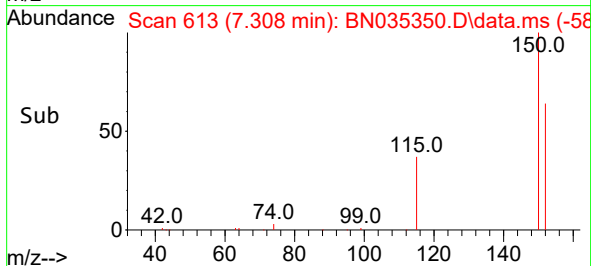
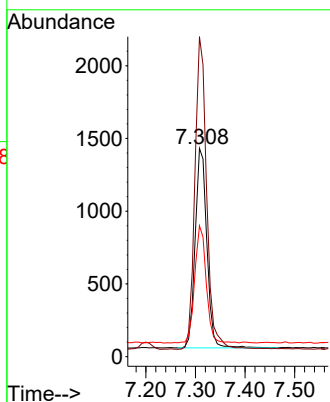


#1  
 1,4-Dichlorobenzene-d4  
 Concen: 0.400 ng  
 RT: 7.308 min Scan# 61  
 Delta R.T. -0.000 min  
 Lab File: BN035350.D  
 Acq: 27 Nov 2024 15:34

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC0.1

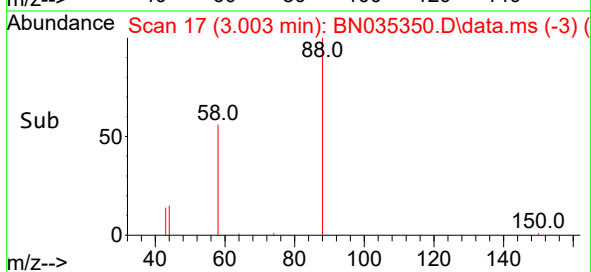
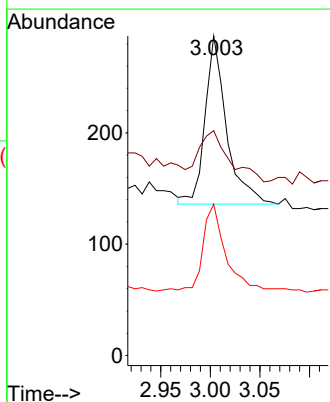
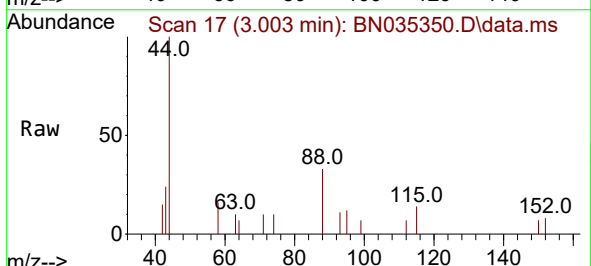


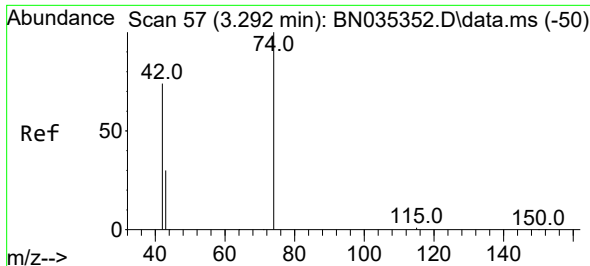
Tgt Ion:152 Resp: 2237  
 Ion Ratio Lower Upper  
 152 100  
 150 153.6 124.0 186.0  
 115 62.8 49.6 74.4



#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

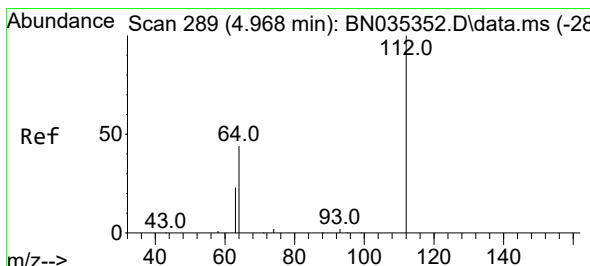
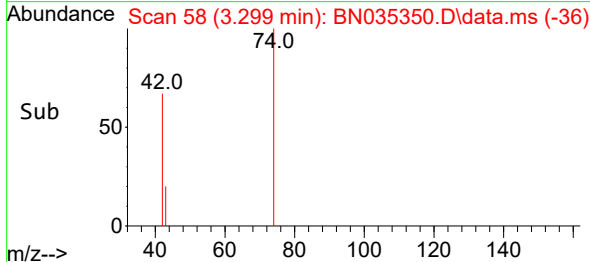
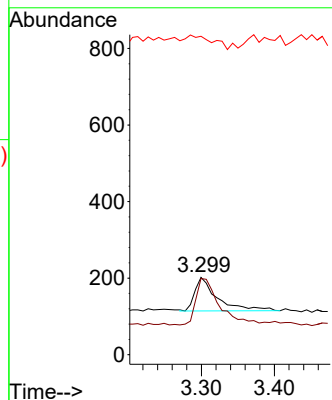
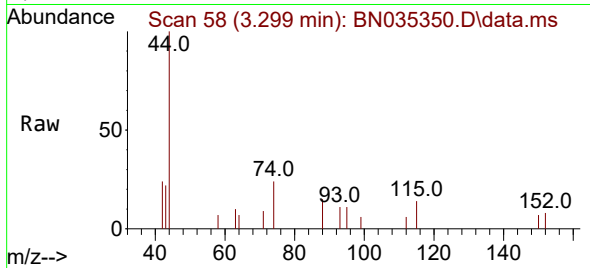




#3  
 n-Nitrosodimethylamine  
 Concen: 0.099 ng  
 RT: 3.299 min Scan# 51  
 Delta R.T. 0.007 min  
 Lab File: BN035350.D  
 Acq: 27 Nov 2024 15:34

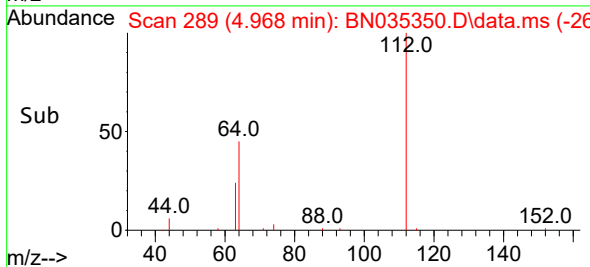
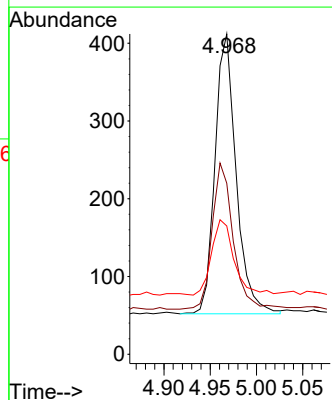
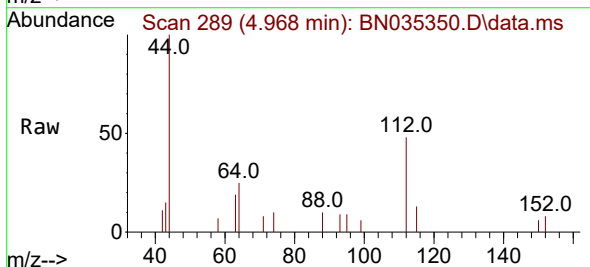
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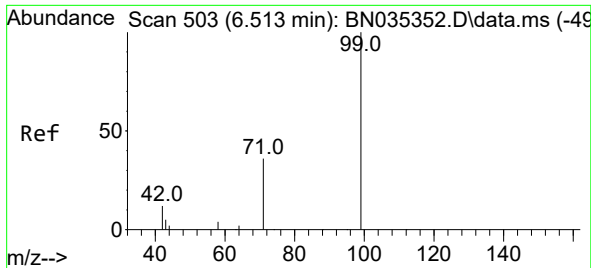
Tgt Ion: 42 Resp: 187  
 Ion Ratio Lower Upper  
 42 100  
 74 146.5 124.9 187.3  
 44 51.9 2.2 3.4#



#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

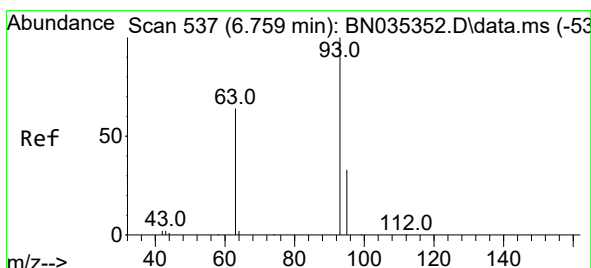
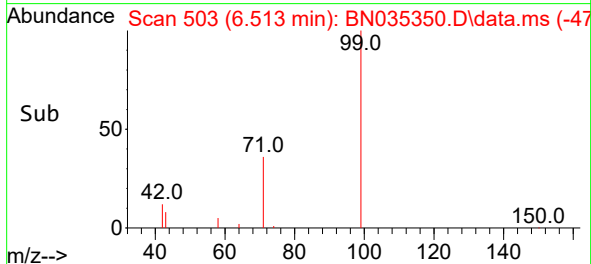
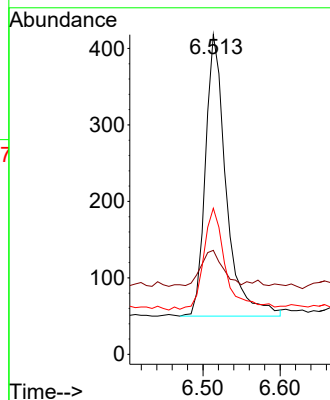
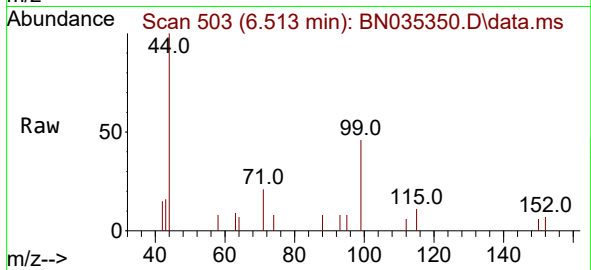




#5  
Phenol-d6  
Concen: 0.096 ng  
RT: 6.513 min Scan# 503  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

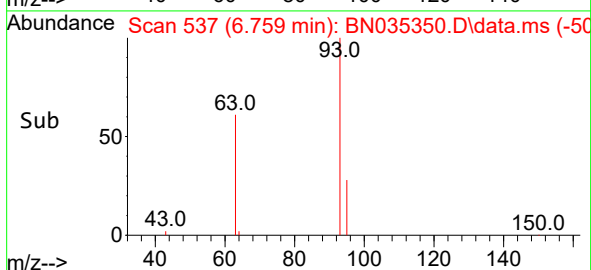
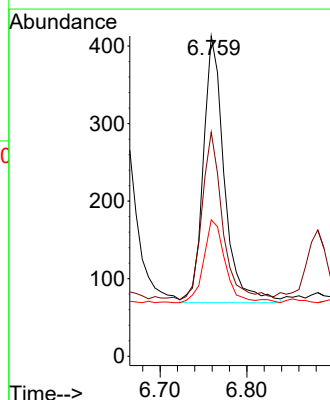
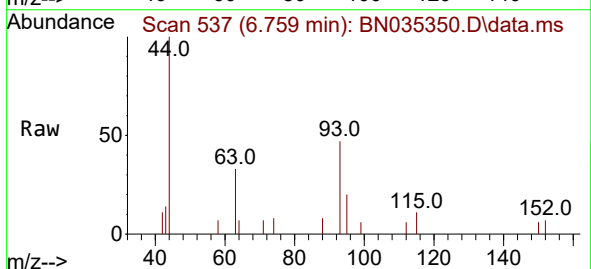
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

|          |       |       |       |
|----------|-------|-------|-------|
| 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  |

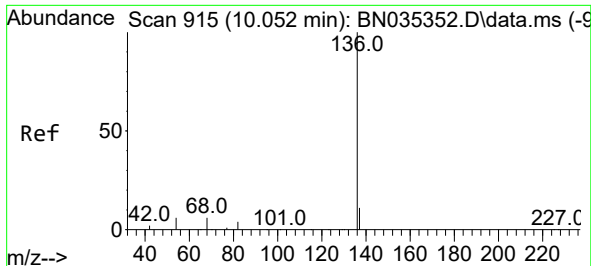


#6  
bis(2-Chloroethyl)ether  
Concen: 0.108 ng  
RT: 6.759 min Scan# 537  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

|          |       |       |       |
|----------|-------|-------|-------|
| 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  |



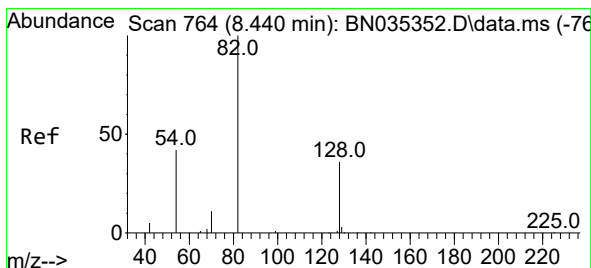
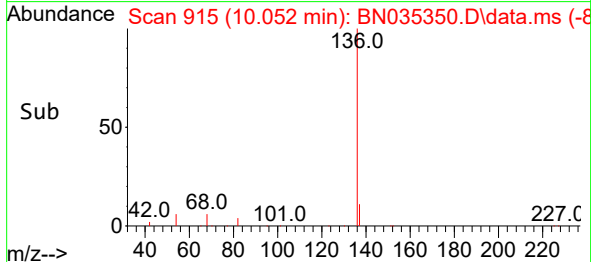
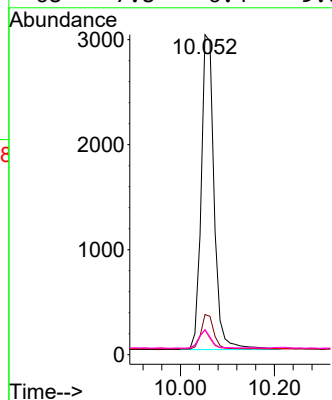
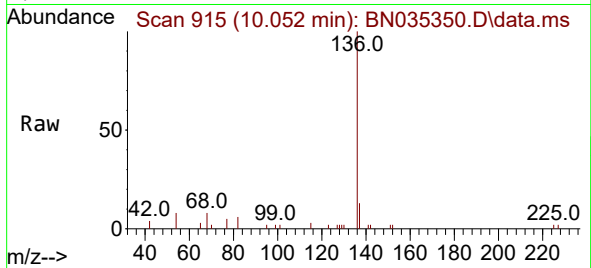




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.052 min Scan# 915  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

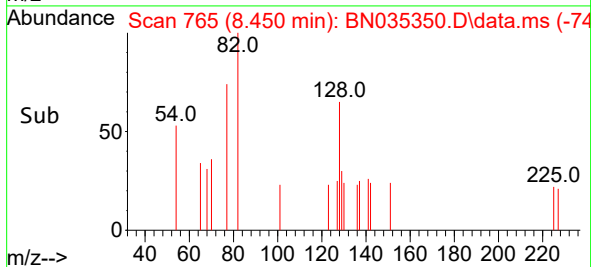
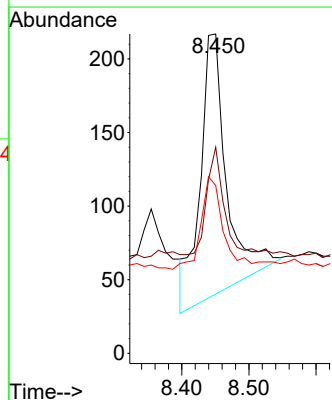
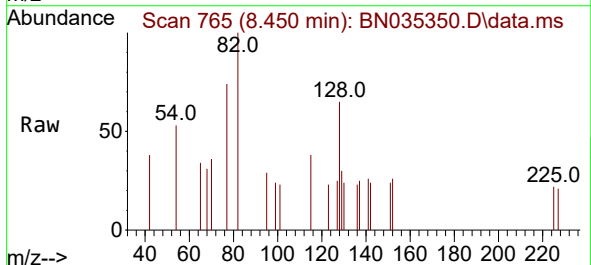
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ClientSampleId :  
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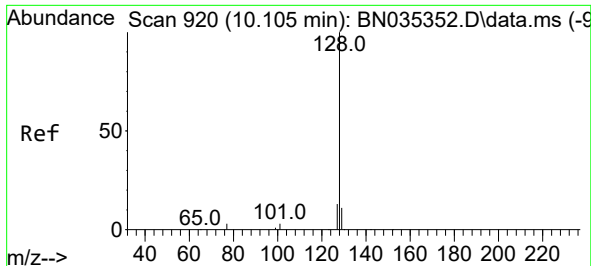
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 5753  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 12.6  | 10.2  | 15.2  |
| 54       | 7.7   | 6.1   | 9.1   |
| 68       | 7.8   | 6.4   | 9.6   |



#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  |

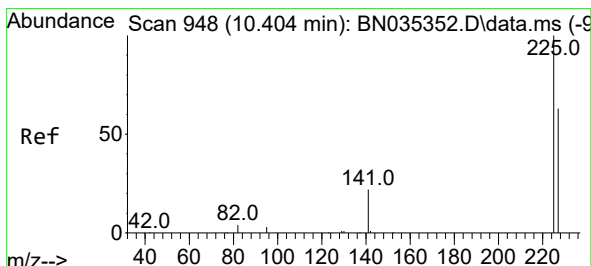
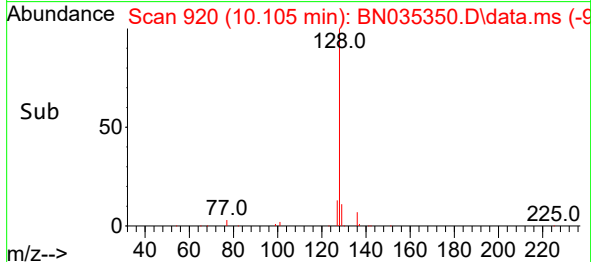
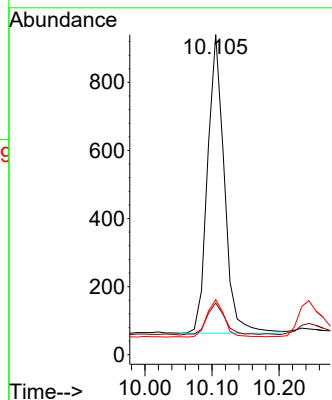
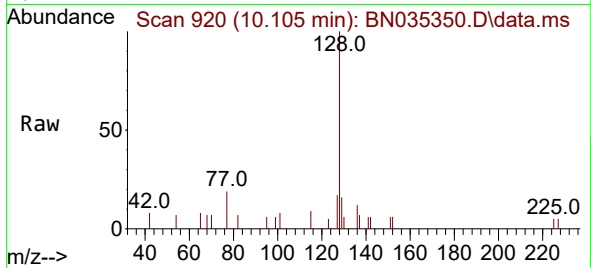




#9  
Naphthalene  
Concen: 0.102 ng  
RT: 10.105 min Scan# 912  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

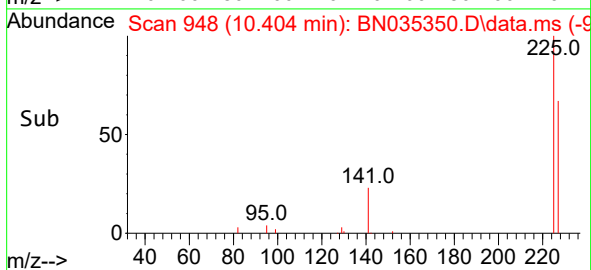
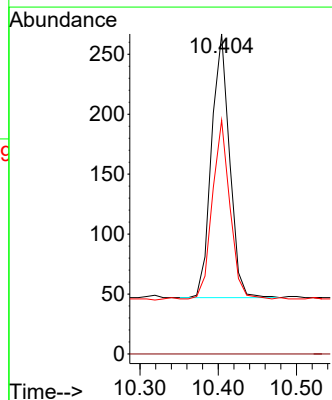
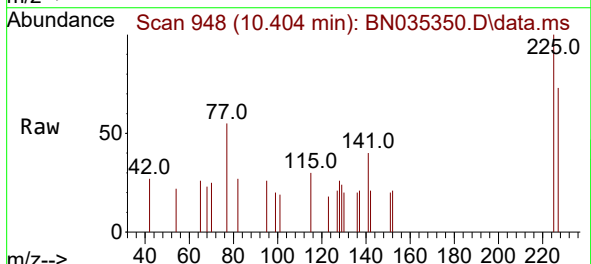
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ClientSampleId :  
SSTDICC0.1

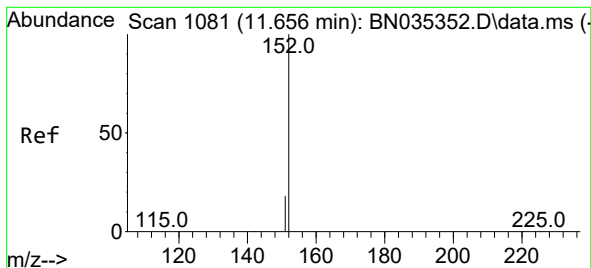
Tgt Ion:128 Resp: 1527  
Ion Ratio Lower Upper  
128 100  
129 16.2 9.8 14.6#  
127 17.2 11.4 17.2#



#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

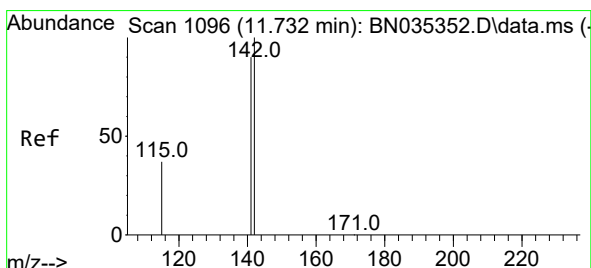
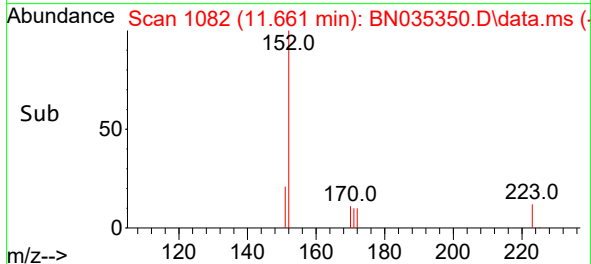
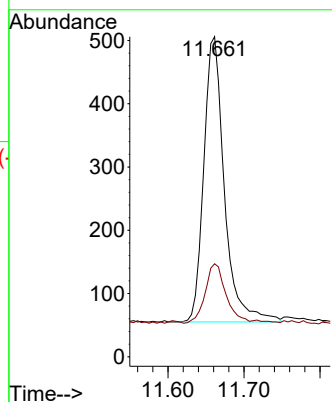
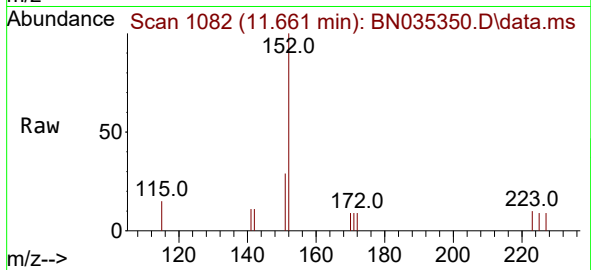




#11  
2-Methylnaphthalene-d10  
Concen: 0.083 ng  
RT: 11.661 min Scan# 1082  
Delta R.T. 0.005 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

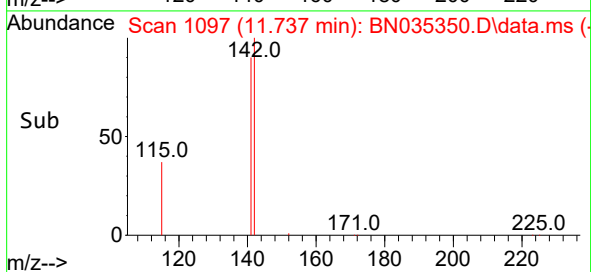
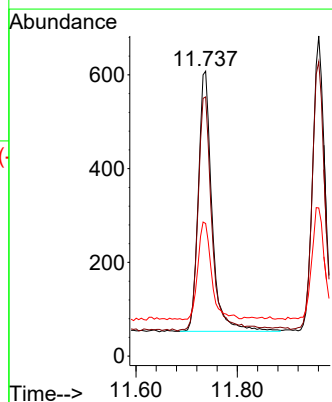
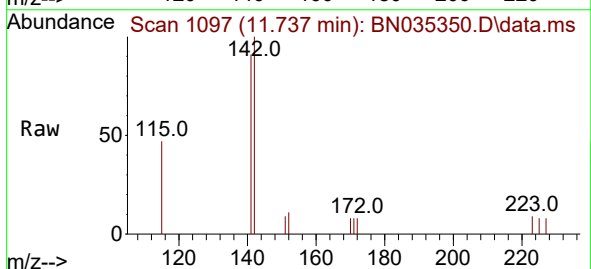
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BNA\_N  
ClientSampleId :  
SSTDICC0.1

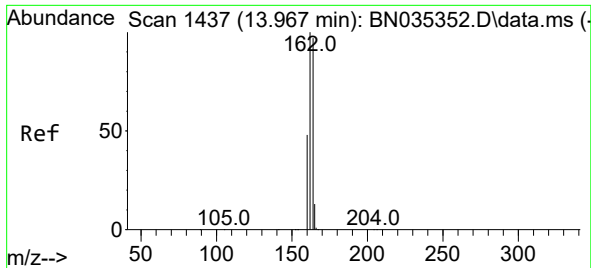
Tgt Ion:152 Resp: 850  
Ion Ratio Lower Upper  
152 100  
151 21.1 16.6 25.0



#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

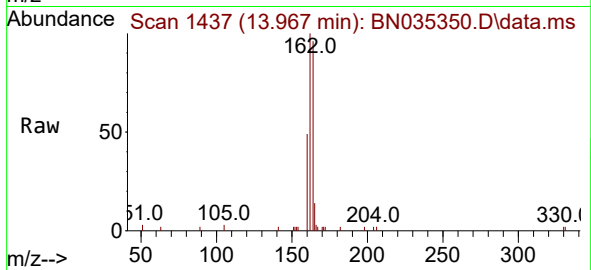
Tgt Ion:142 Resp: 1042  
Ion Ratio Lower Upper  
142 100  
141 91.0 72.2 108.4  
115 46.5 31.4 47.0



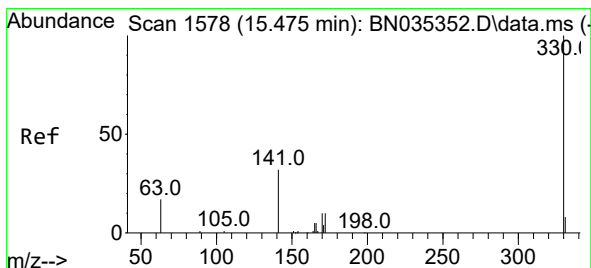
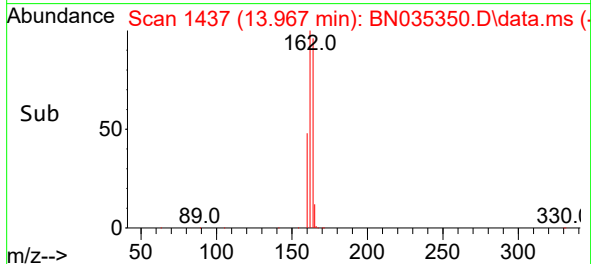
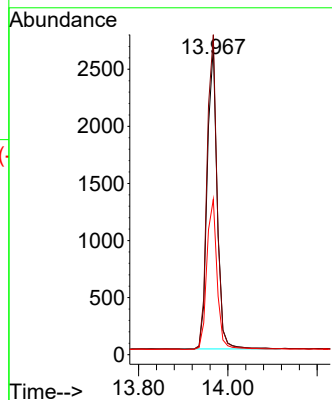


#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.967 min Scan# 14  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDIC0.1

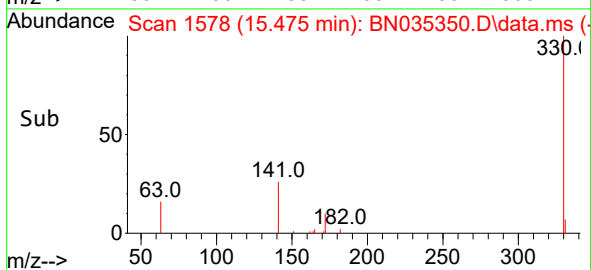
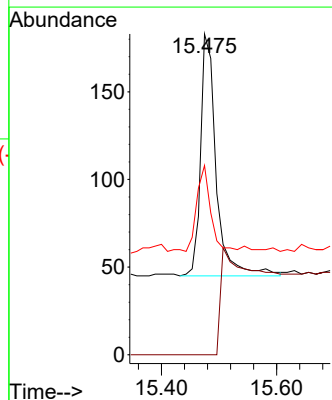
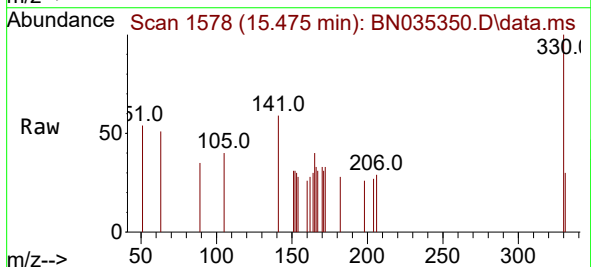


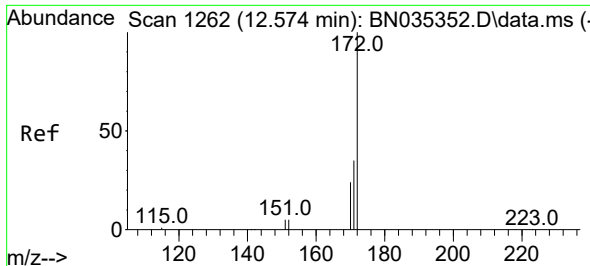
Tgt Ion:164 Resp: 4077  
Ion Ratio Lower Upper  
164 100  
162 103.9 82.2 123.2  
160 50.4 40.1 60.1



#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

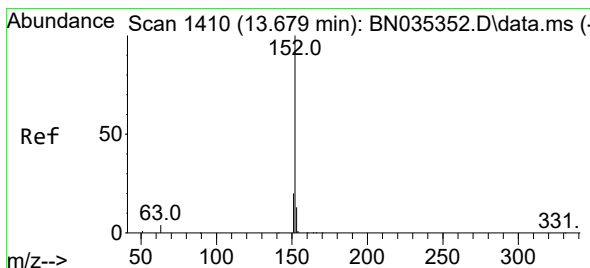
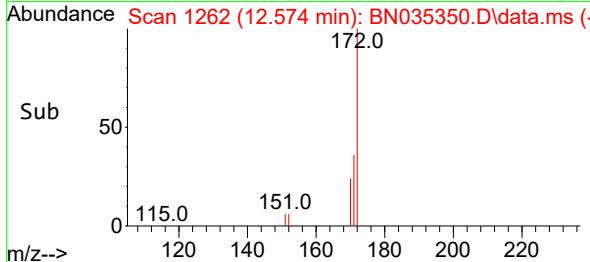
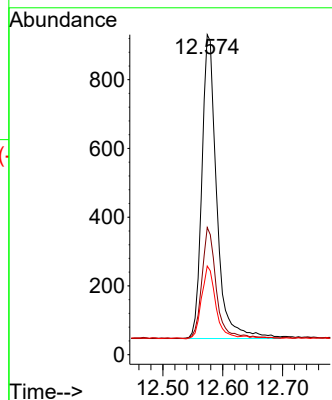
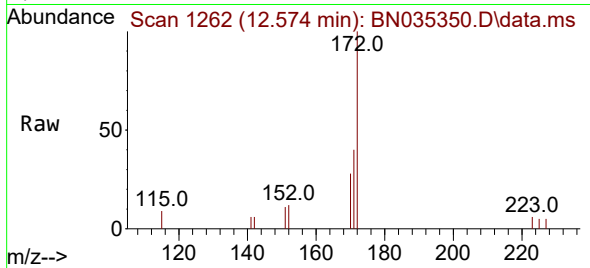




#15  
2-Fluorobiphenyl  
Concen: 0.092 ng  
RT: 12.574 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

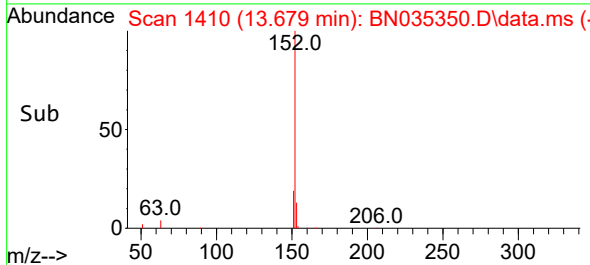
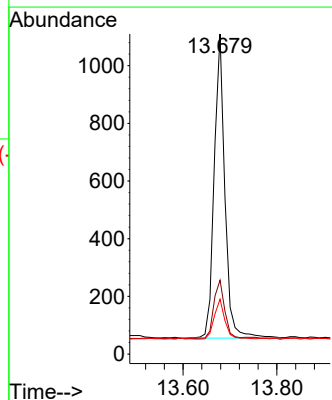
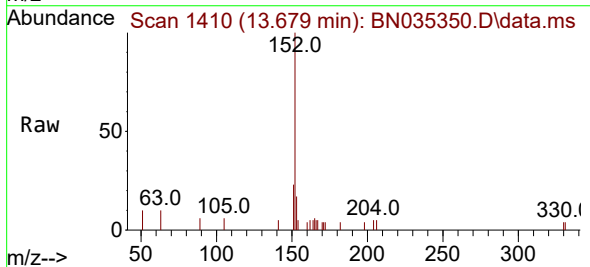
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

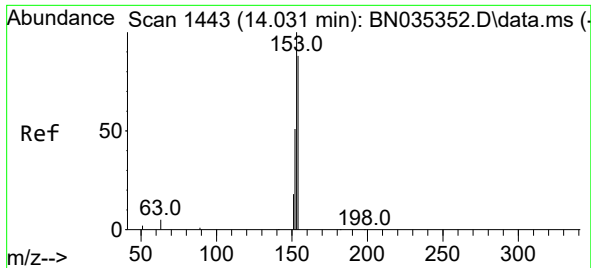
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:172 | Resp: | 1518      |
| Ion Ratio   | Lower | Upper     |
| 172         | 100   |           |
| 171         | 39.7  | 29.0 43.4 |
| 170         | 27.7  | 19.8 29.8 |



#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 |

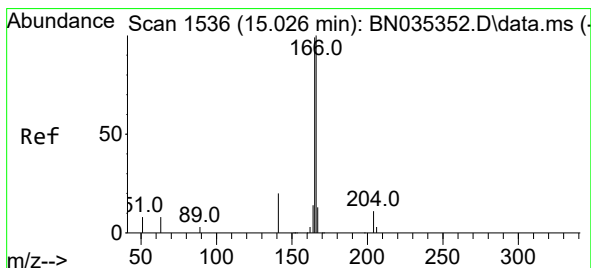
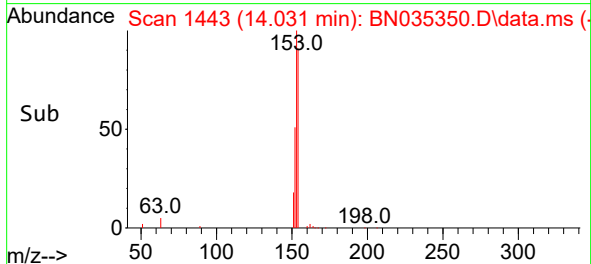
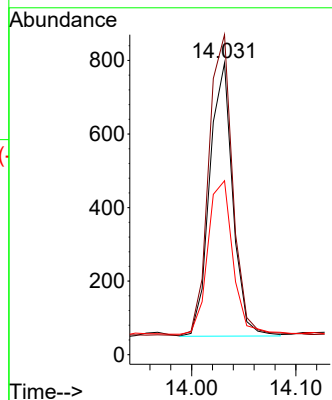
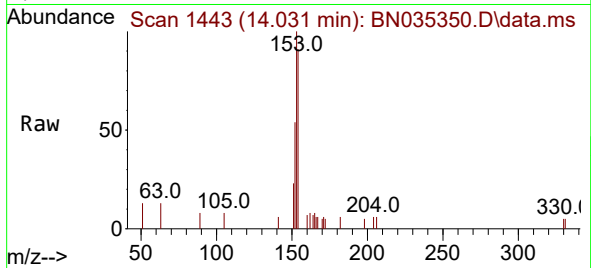




#17  
Acenaphthene  
Concen: 0.100 ng  
RT: 14.031 min Scan# 1443  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

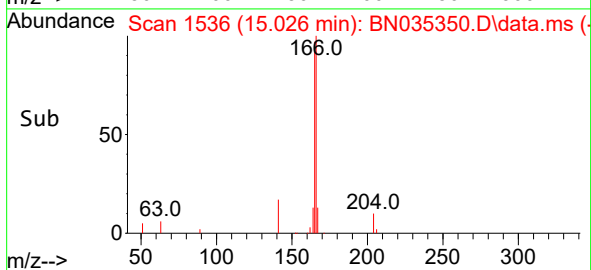
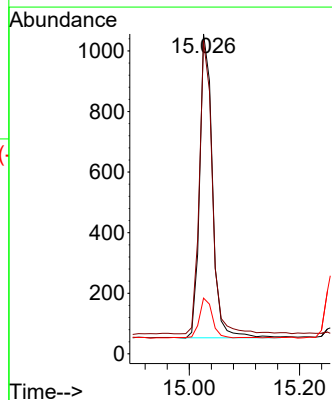
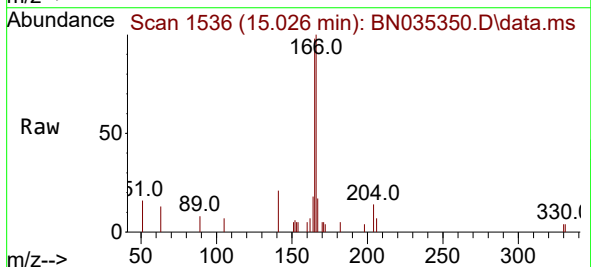
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

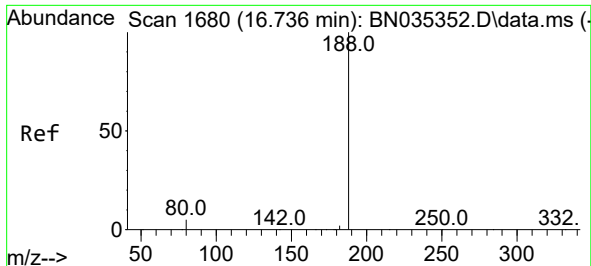
Tgt Ion:154 Resp: 1143  
Ion Ratio Lower Upper  
154 100  
153 115.0 92.6 139.0  
152 60.9 49.0 73.6



#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

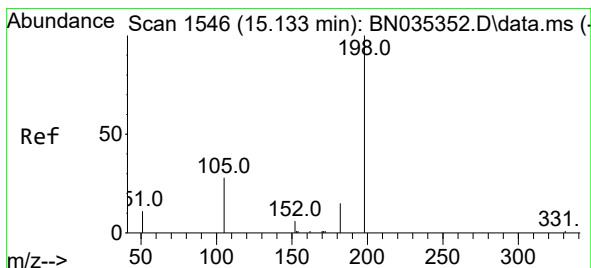
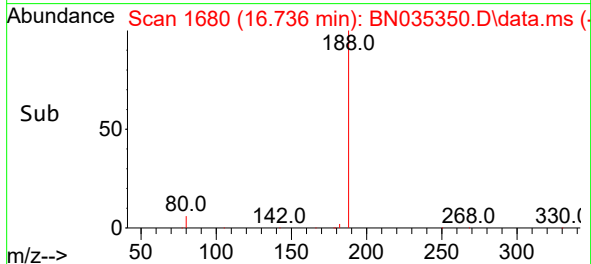
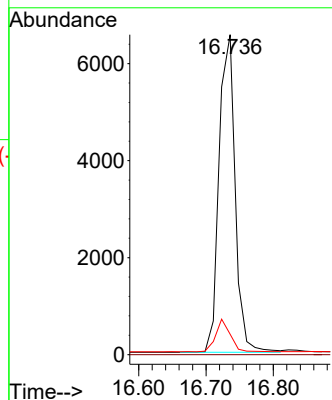
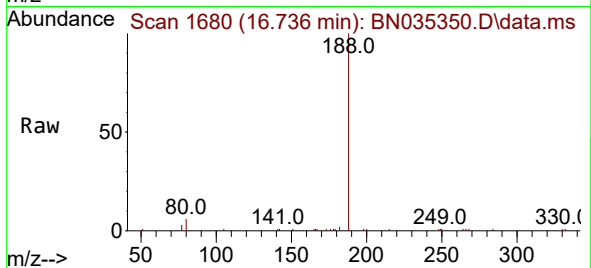
Tgt Ion:188 Resp: 10855

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

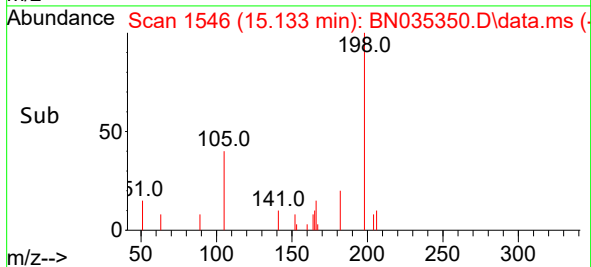
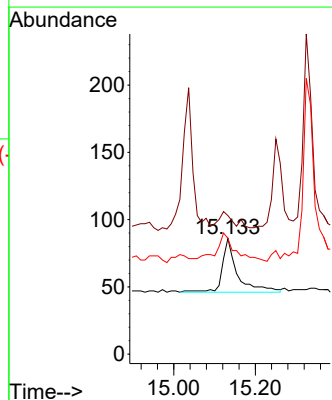
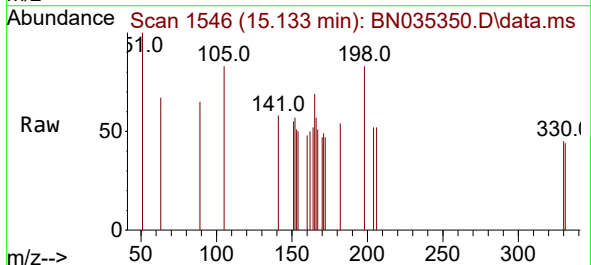
Tgt Ion:198 Resp: 103

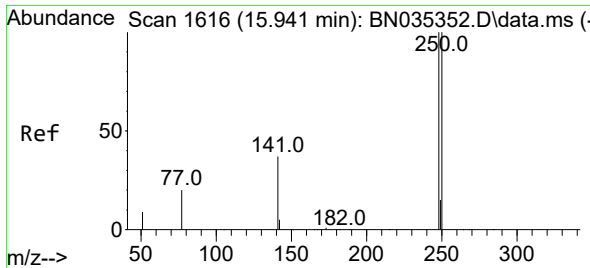
Ion Ratio Lower Upper

198 100

51 119.8 46.5 69.7#

105 100.0 45.3 67.9#

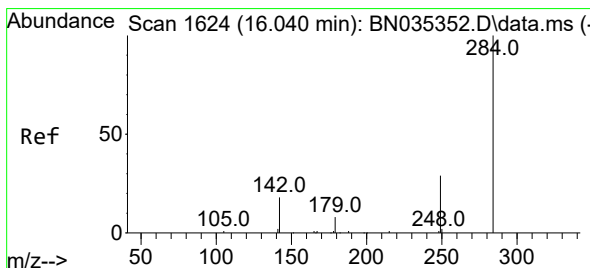
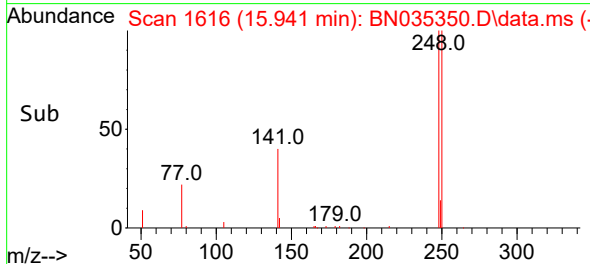
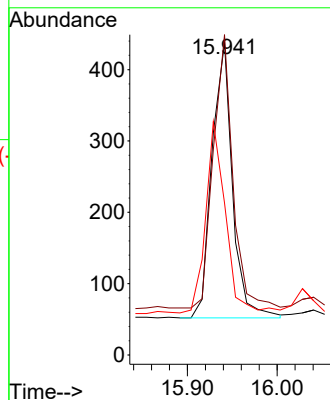
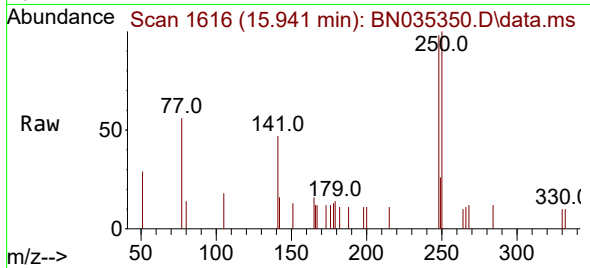




#21  
4-Bromophenyl-phenylether  
Concen: 0.088 ng  
RT: 15.941 min Scan# 1616  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

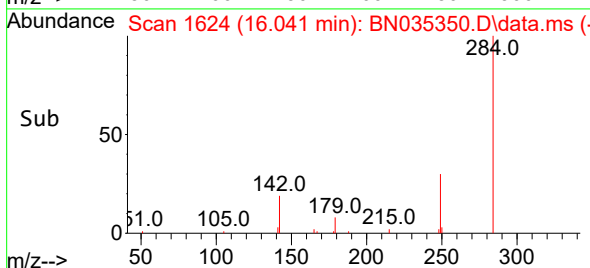
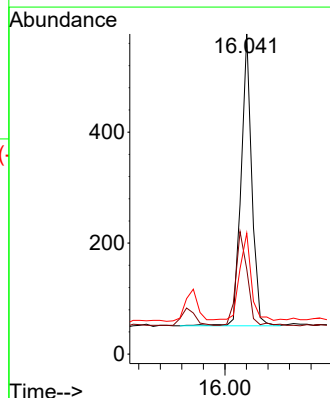
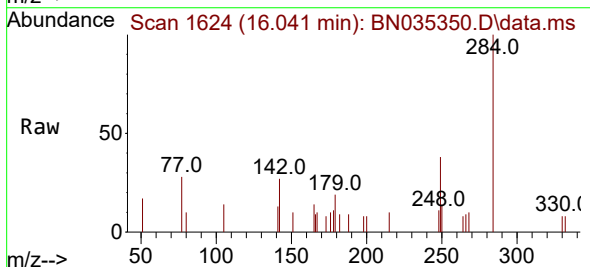
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

|          |       |       |       |
|----------|-------|-------|-------|
| 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# |

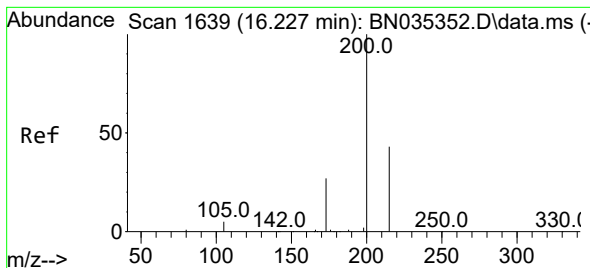


#22  
Hexachlorobenzene  
Concen: 0.100 ng  
RT: 16.041 min Scan# 1624  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

|          |       |       |       |
|----------|-------|-------|-------|
| 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

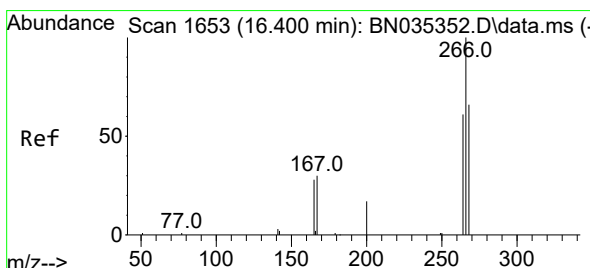
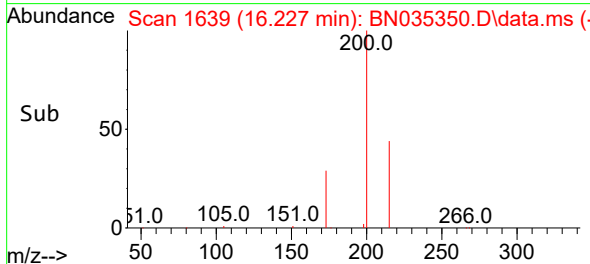
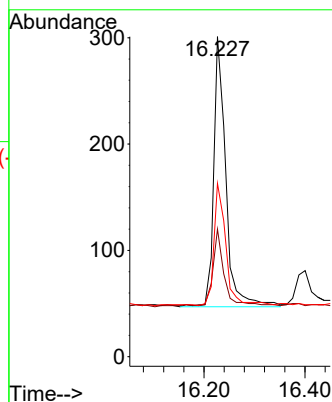
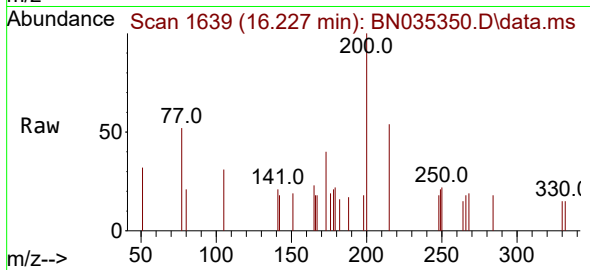
Tgt Ion:200 Resp: 421

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

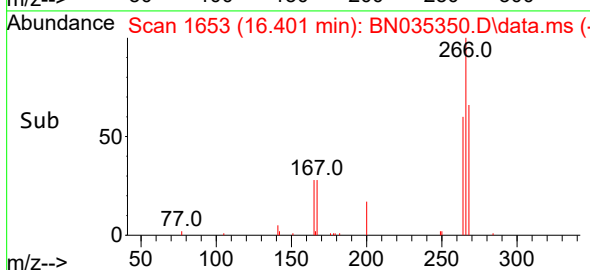
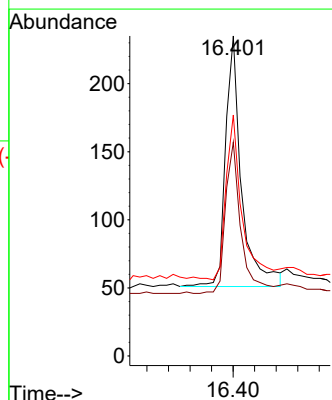
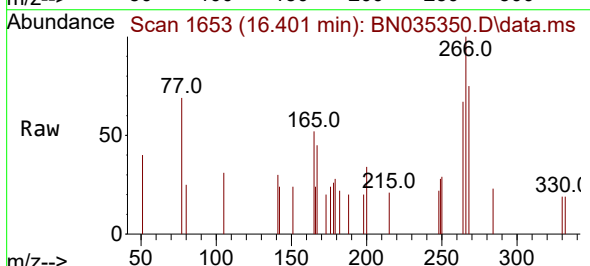
Tgt Ion:266 Resp: 381

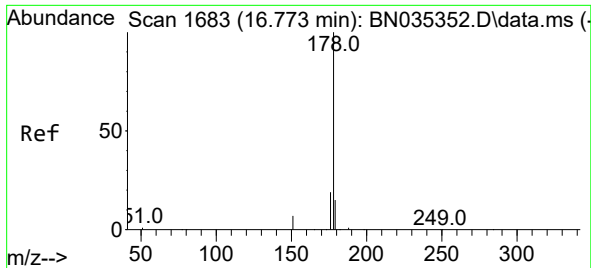
Ion Ratio Lower Upper

266 100

264 58.3 42.3 63.5

268 63.3 43.3 64.9

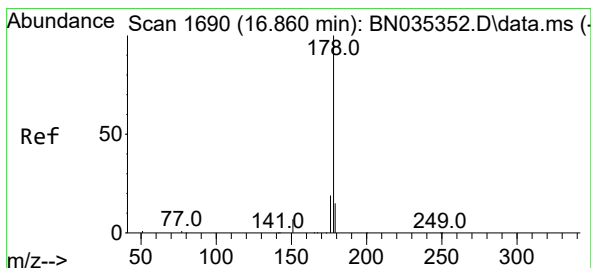
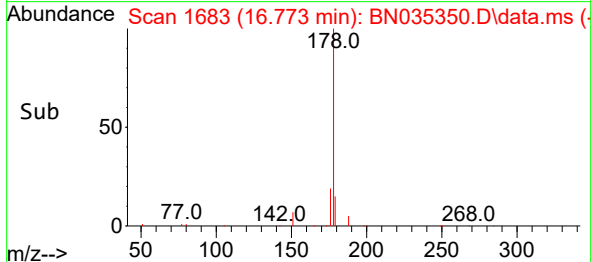
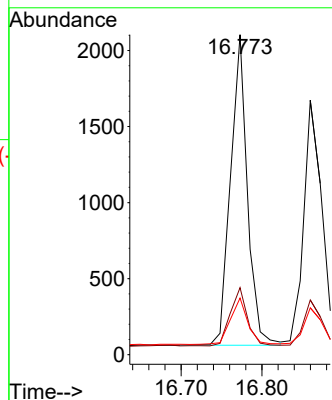
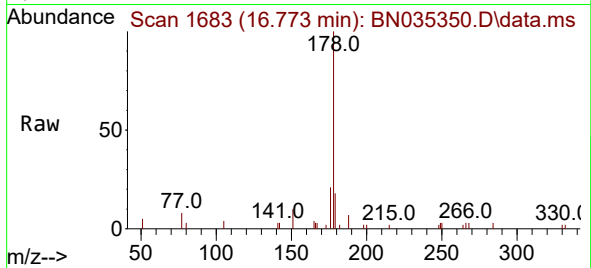




#25  
Phenanthrene  
Concen: 0.104 ng  
RT: 16.773 min Scan# 1683  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

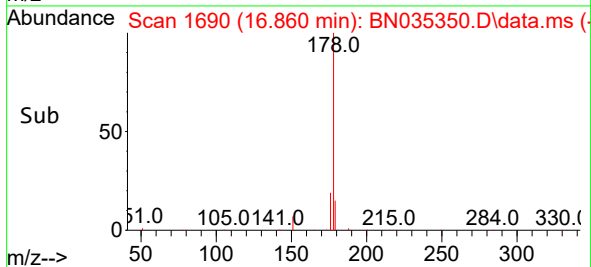
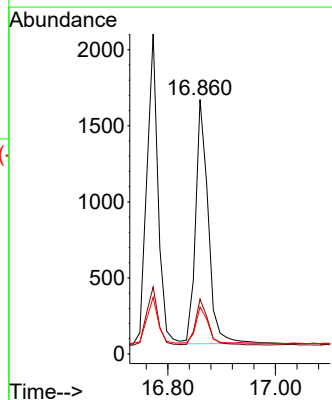
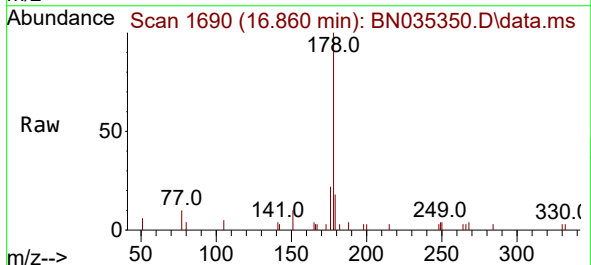
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

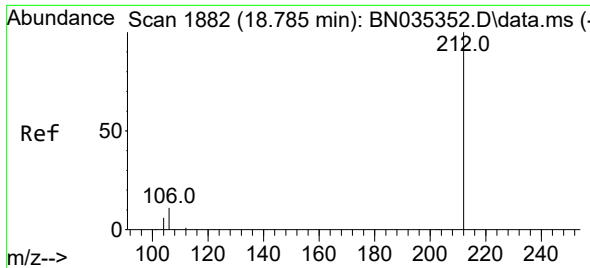
Tgt Ion:178 Resp: 2963  
Ion Ratio Lower Upper  
178 100  
176 18.8 15.4 23.2  
179 15.6 12.3 18.5



#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

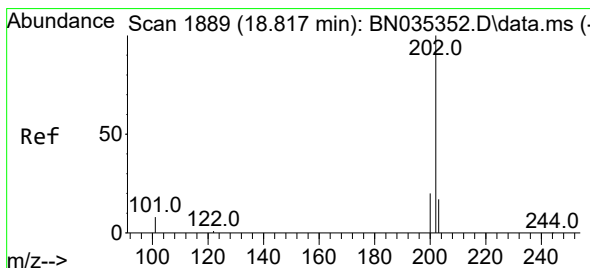
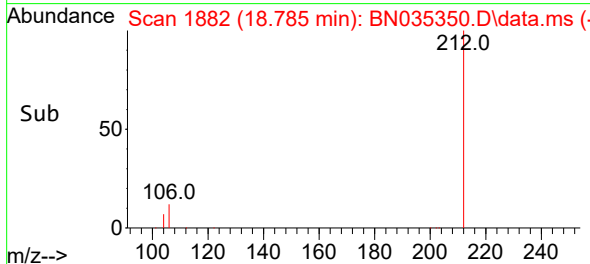
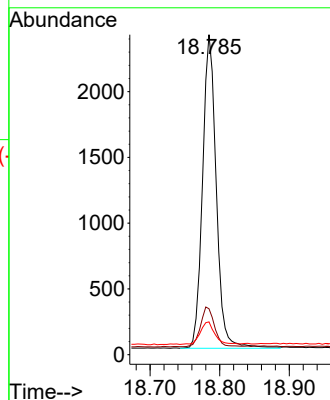
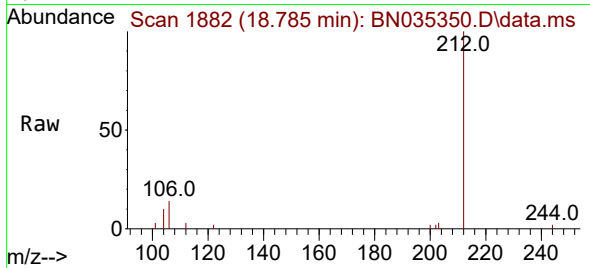




#27  
Fluoranthene-d10  
Concen: 0.098 ng  
RT: 18.785 min Scan# 1882  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

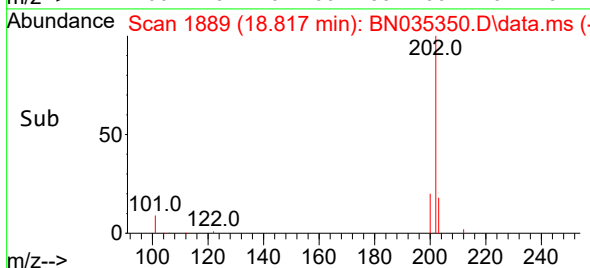
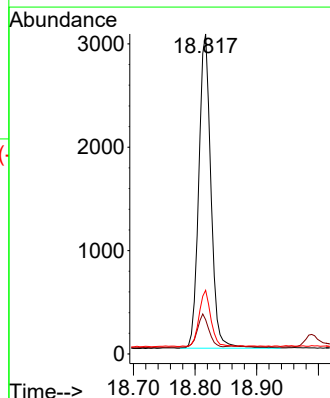
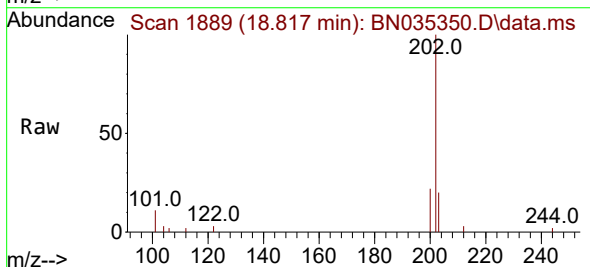
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

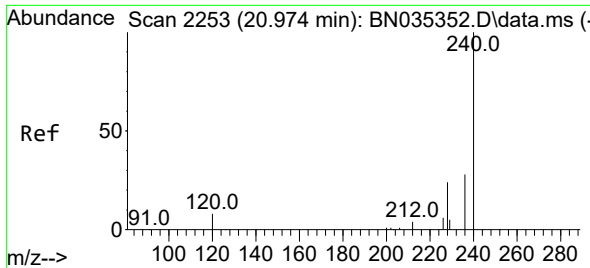
Tgt Ion:212 Resp: 3265  
Ion Ratio Lower Upper  
212 100  
106 12.8 9.2 13.8  
104 7.6 5.3 7.9



#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

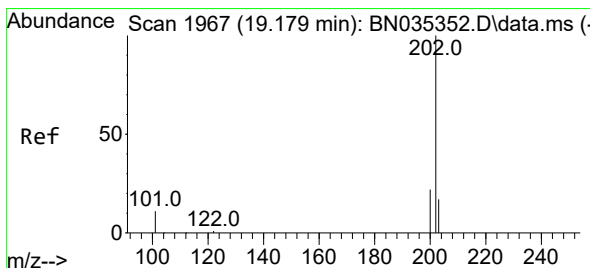
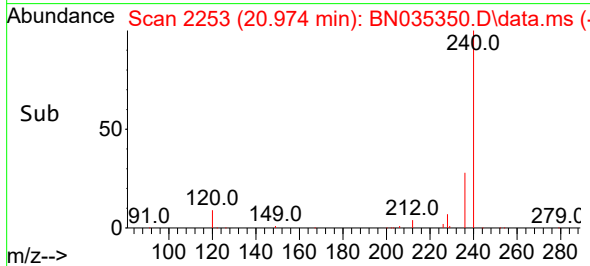
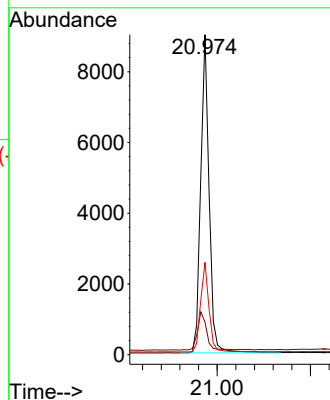
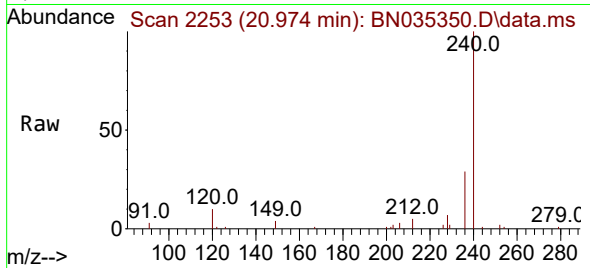




#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 20.974 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

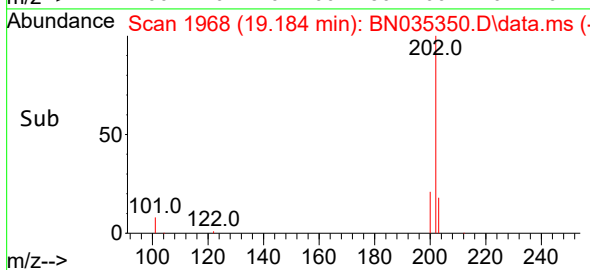
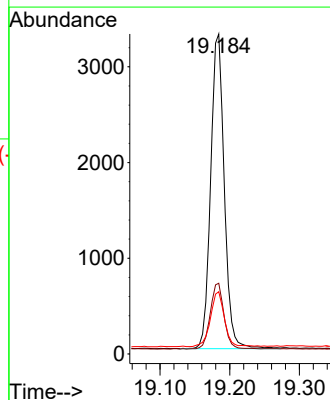
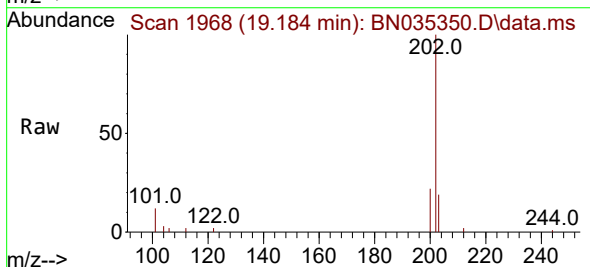
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

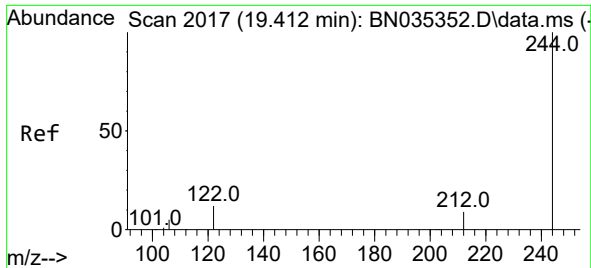
Tgt Ion:240 Resp: 11269  
Ion Ratio Lower Upper  
240 100  
120 10.1 7.9 11.9  
236 28.8 22.9 34.3



#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

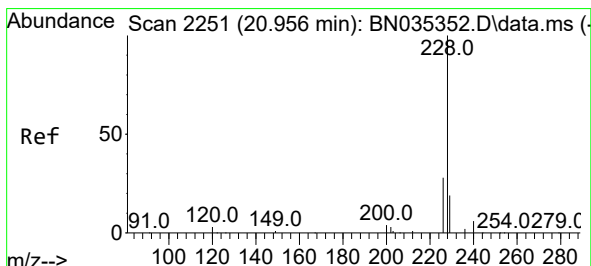
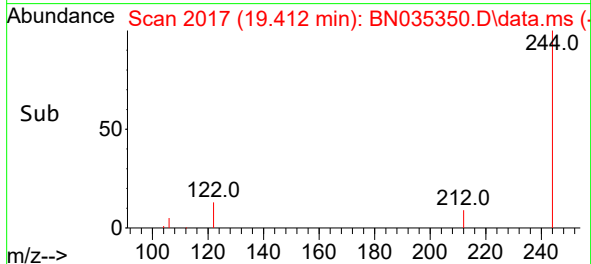
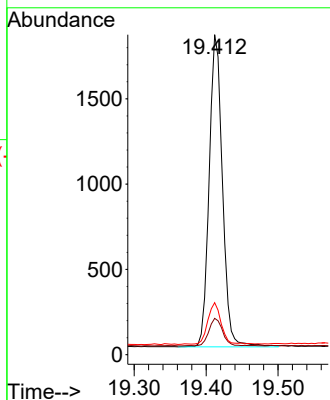
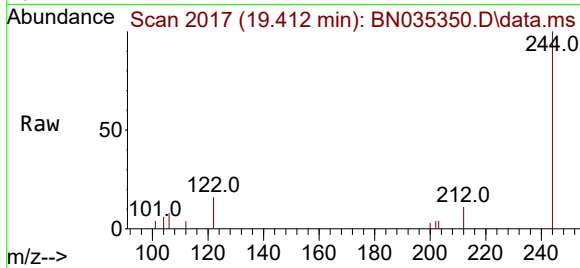




#31  
 Terphenyl-d14  
 Concen: 0.099 ng  
 RT: 19.412 min Scan# 2017  
 Delta R.T. 0.000 min  
 Lab File: BN035350.D  
 Acq: 27 Nov 2024 15:34

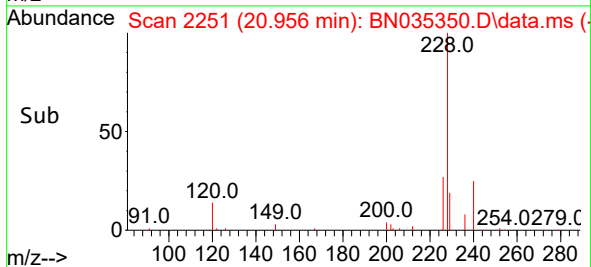
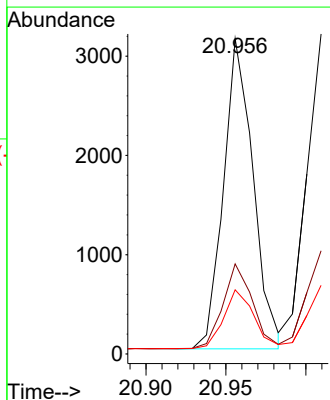
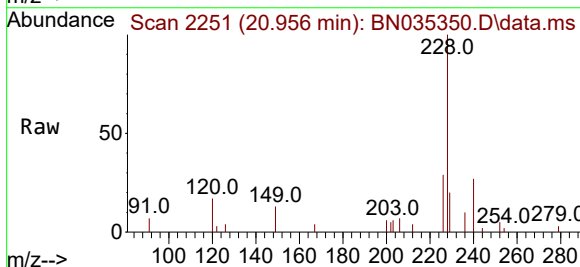
Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC0.1

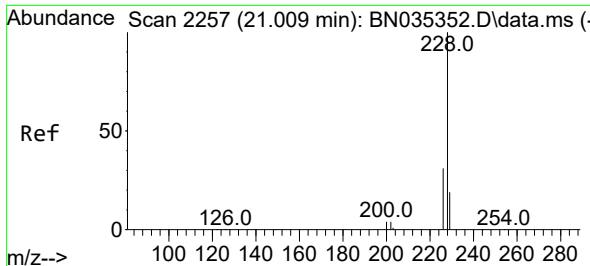
Tgt Ion:244 Resp: 2344  
 Ion Ratio Lower Upper  
 244 100  
 212 11.4 8.1 12.1  
 122 16.3 10.3 15.5#



#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

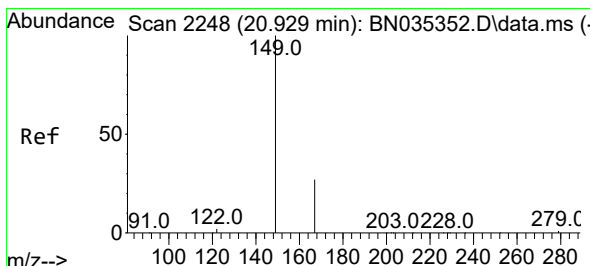
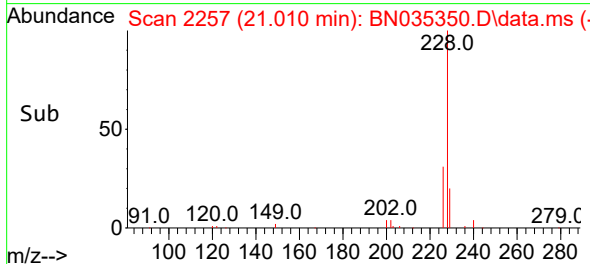
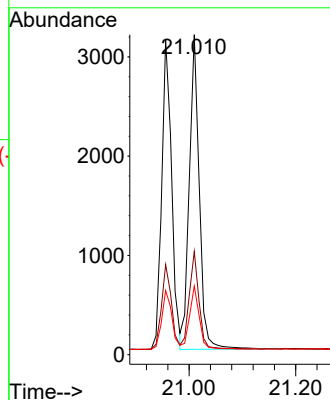
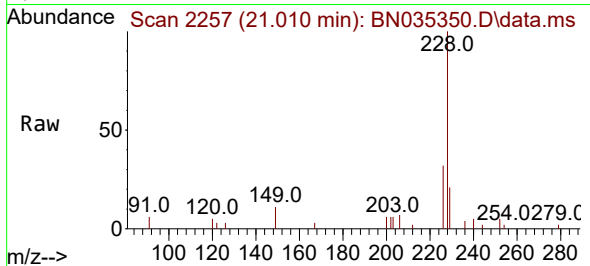




#33  
Chrysene  
Concen: 0.106 ng  
RT: 21.010 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

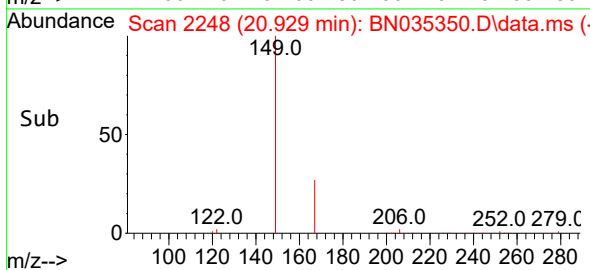
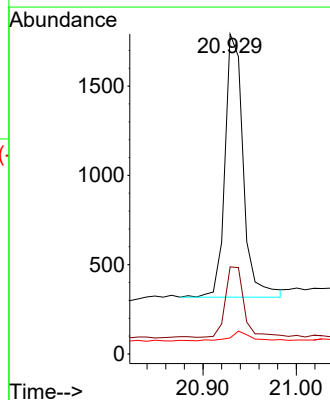
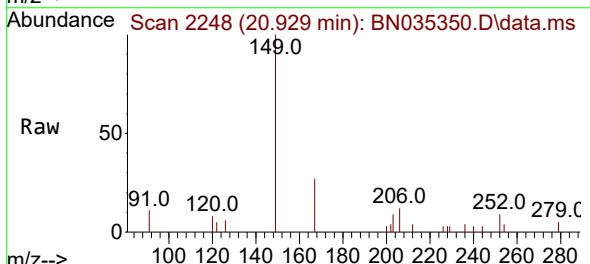
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

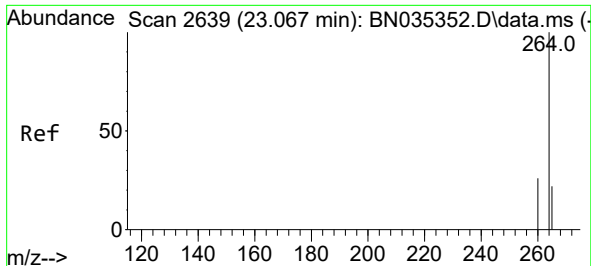
Tgt Ion:228 Resp: 4123  
Ion Ratio Lower Upper  
228 100  
226 32.3 24.6 37.0  
229 21.5 15.9 23.9



#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

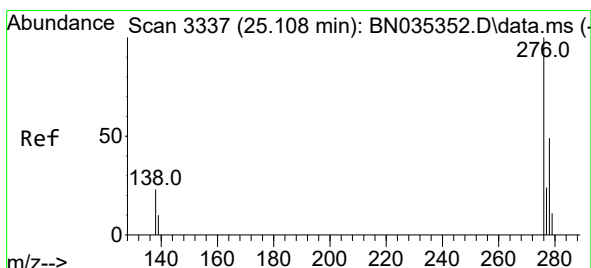
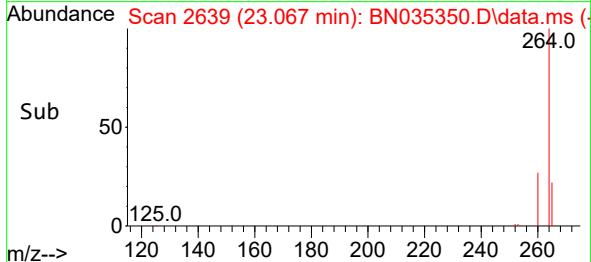
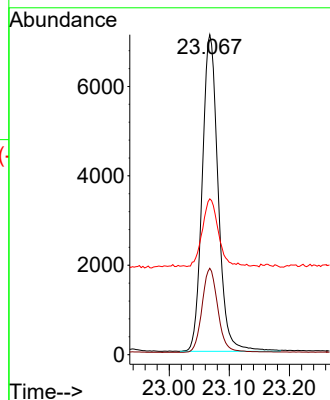
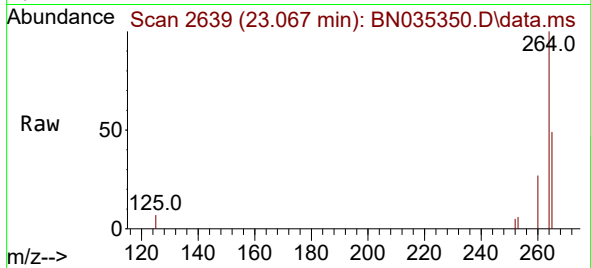




#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.067 min Scan# 2  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

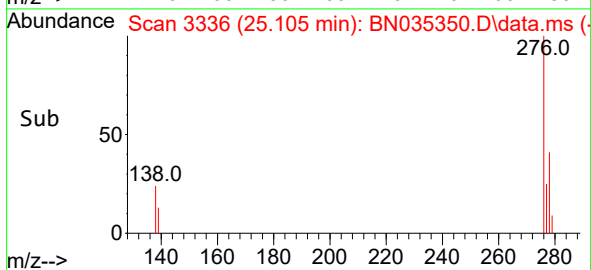
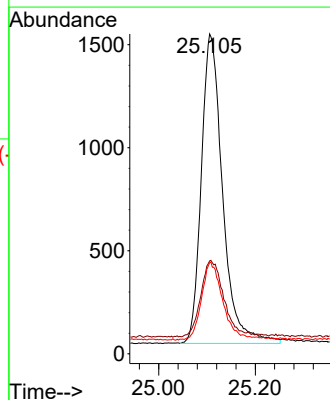
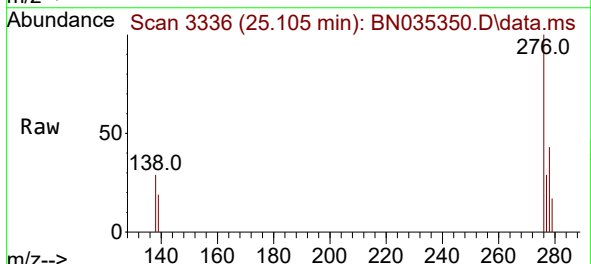
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

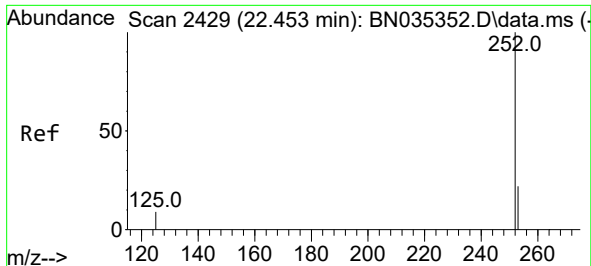
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 264   | Resp: | 13004 |
| Ion Ratio | Lower | Upper |       |
| 264       | 100   |       |       |
| 260       | 27.0  | 21.4  | 32.2  |
| 265       | 48.7  | 40.2  | 60.4  |



#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 |

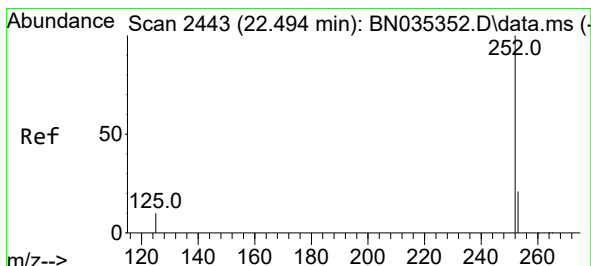
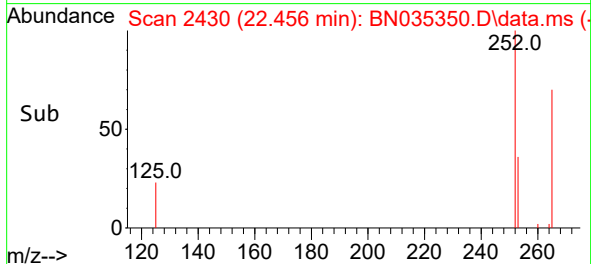
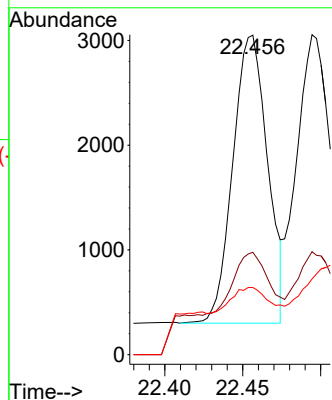
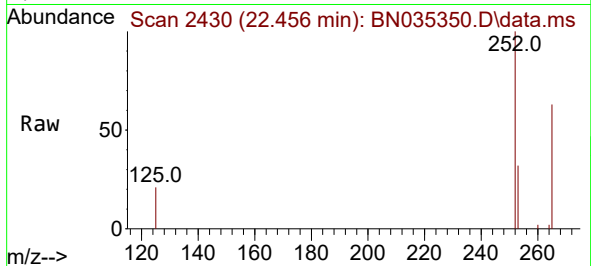




#37  
Benzo(b)fluoranthene  
Concen: 0.097 ng  
RT: 22.456 min Scan# 2430  
Delta R.T. 0.003 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

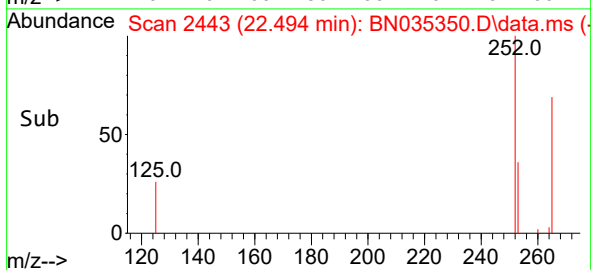
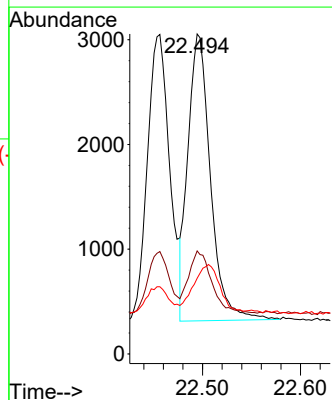
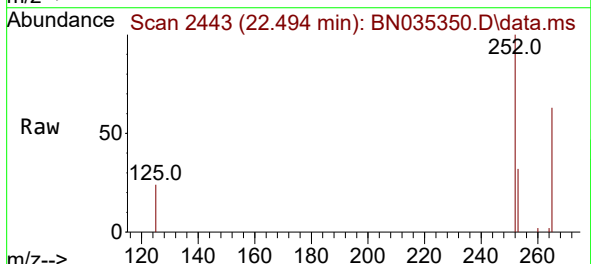
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

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#

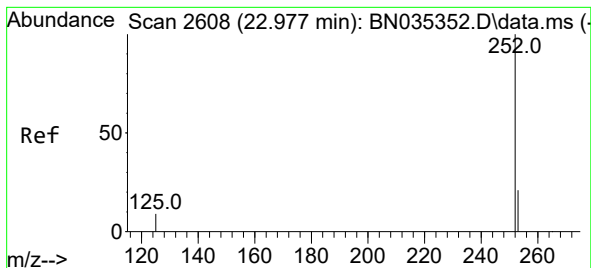


#38  
Benzo(k)fluoranthene  
Concen: 0.100 ng  
RT: 22.494 min Scan# 2443  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

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

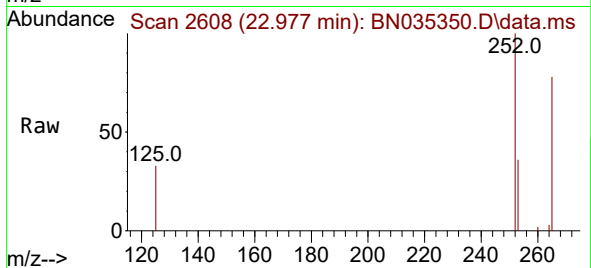
Acq: 27 Nov 2024 15:34

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.1



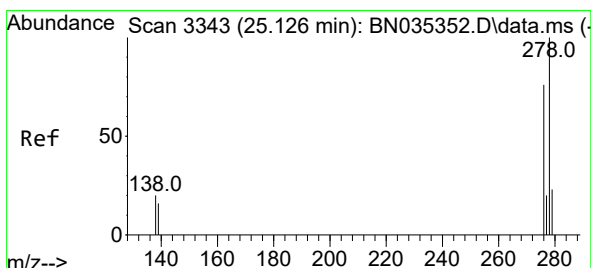
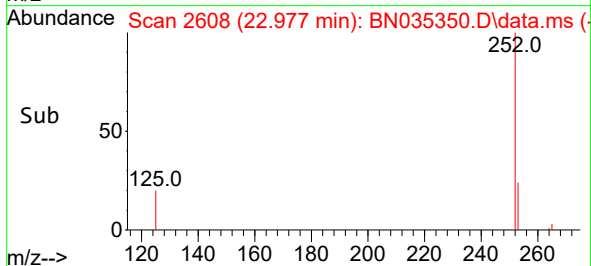
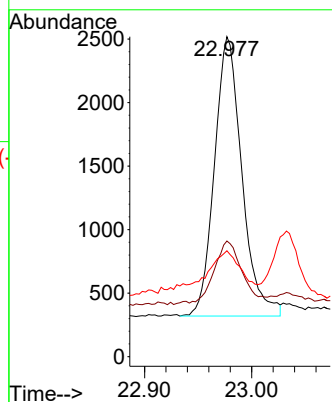
Tgt Ion:252 Resp: 3913

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

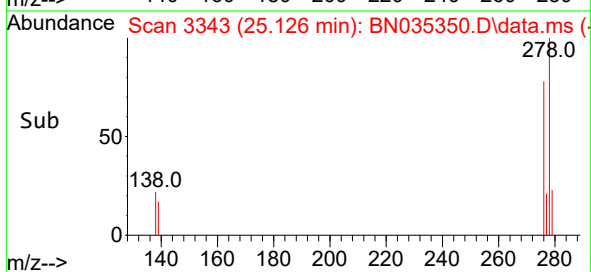
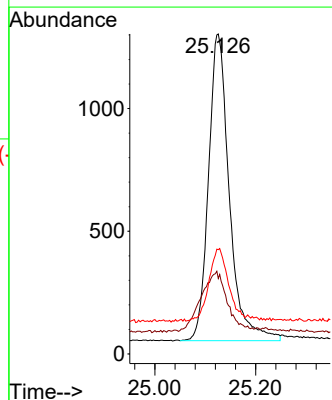
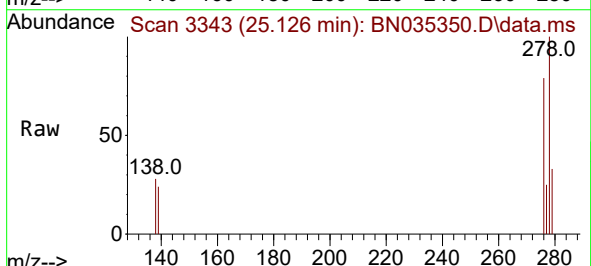
Tgt Ion:278 Resp: 3588

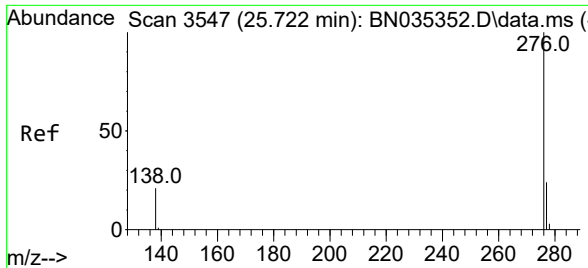
Ion Ratio Lower Upper

278 100

139 23.6 14.2 21.4#

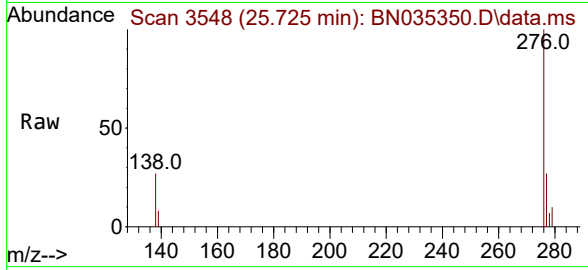
279 32.6 20.5 30.7#



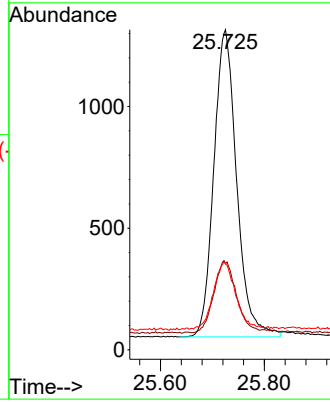
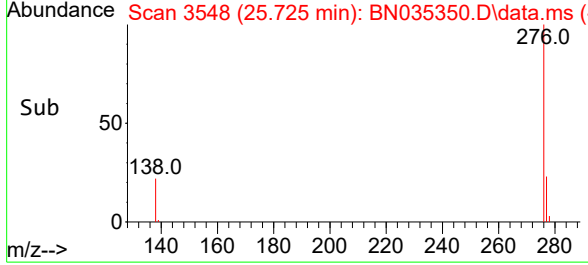


#41  
 Benzo(g,h,i)perylene  
 Concen: 0.088 ng  
 RT: 25.725 min Scan# 31  
 Delta R.T. 0.003 min  
 Lab File: BN035350.D  
 Acq: 27 Nov 2024 15:34

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

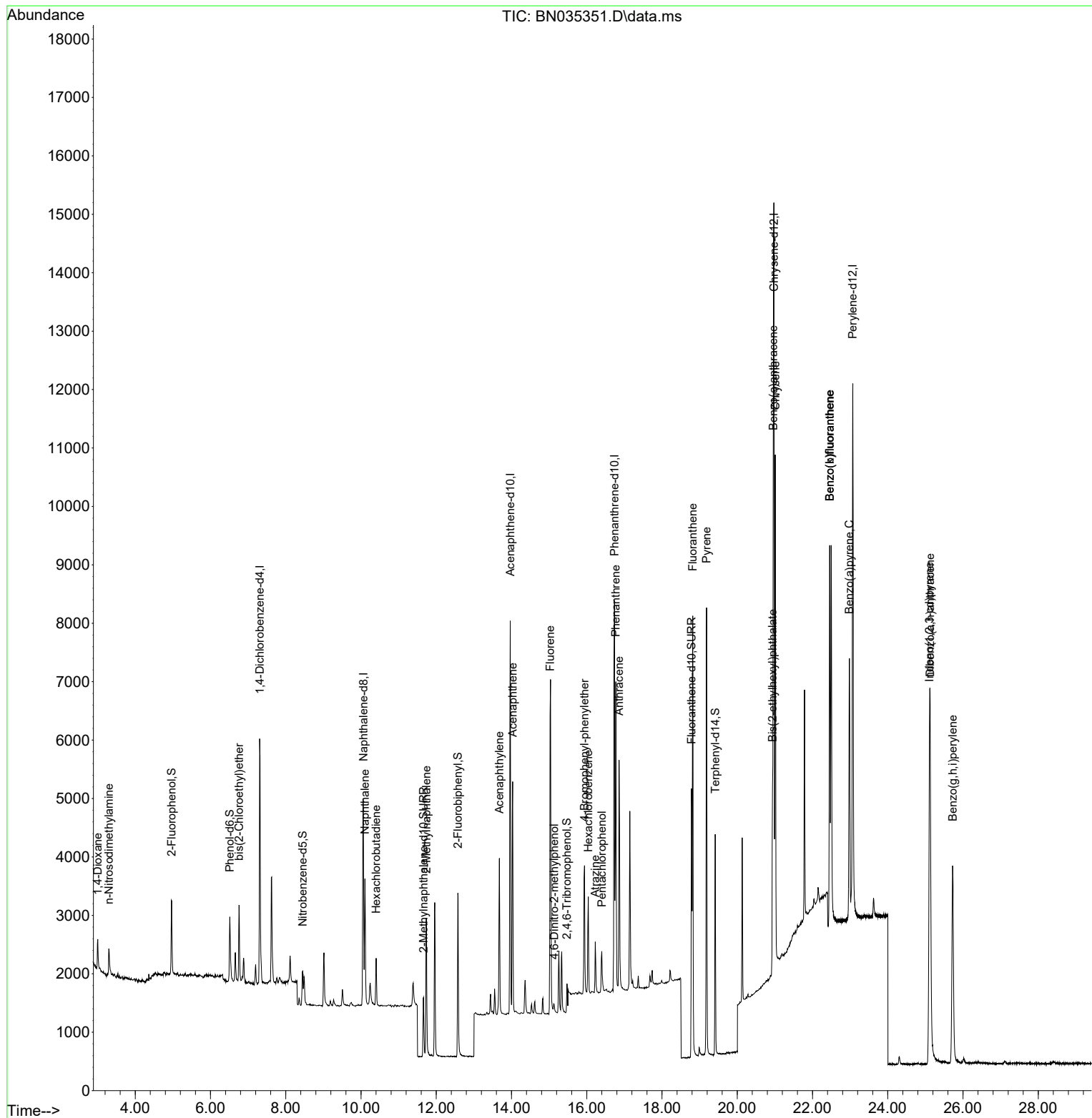
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.308  | 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              |        |      |          |       |       |          |
| 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... | 21.938 | 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       |

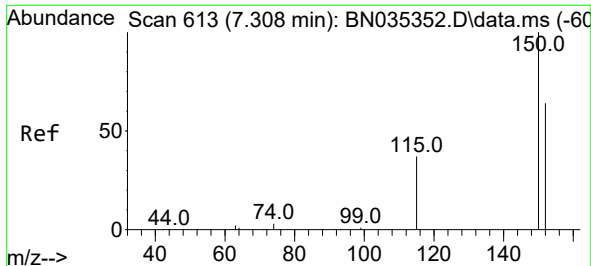
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

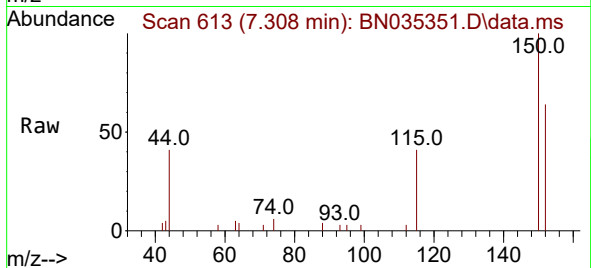
Quant Time: Nov 27 22:52:33 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Nov 27 22:48:24 2024  
Response via : Initial Calibration





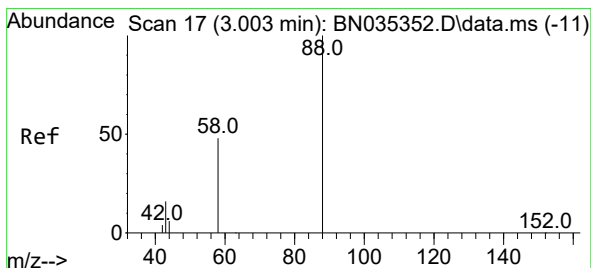
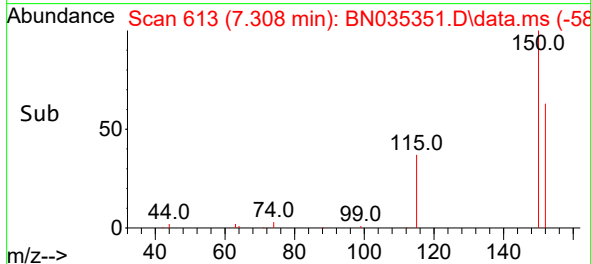
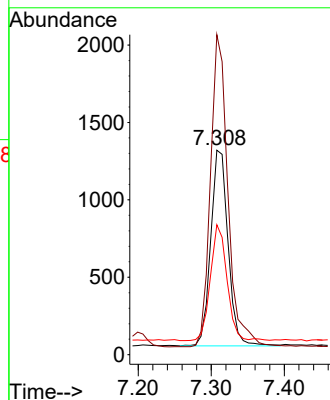
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 0.400 ng  
 RT: 7.308 min Scan# 61  
 Delta R.T. -0.000 min  
 Lab File: BN035351.D  
 Acq: 27 Nov 2024 16:10

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC0.2



Tgt Ion:152 Resp: 2084

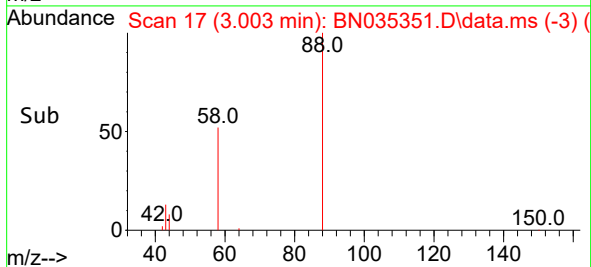
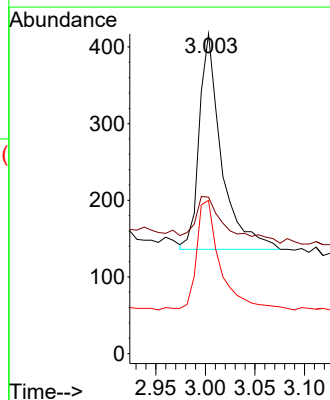
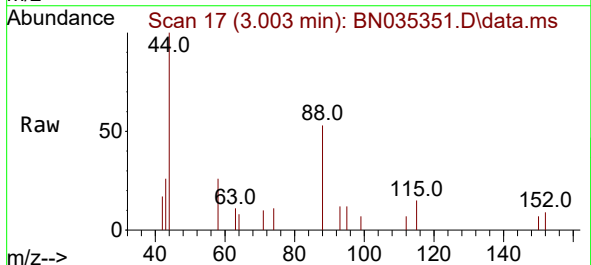
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 152 | 100   |       |       |
| 150 | 156.5 | 124.0 | 186.0 |
| 115 | 63.5  | 49.6  | 74.4  |

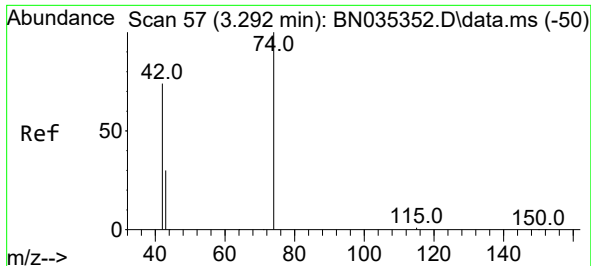


#2  
 1,4-Dioxane  
 Concen: 0.230 ng  
 RT: 3.003 min Scan# 17  
 Delta R.T. -0.000 min  
 Lab File: BN035351.D  
 Acq: 27 Nov 2024 16:10

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  |

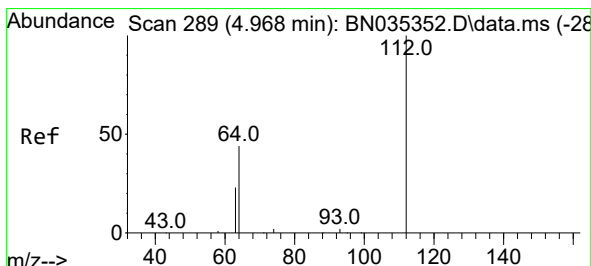
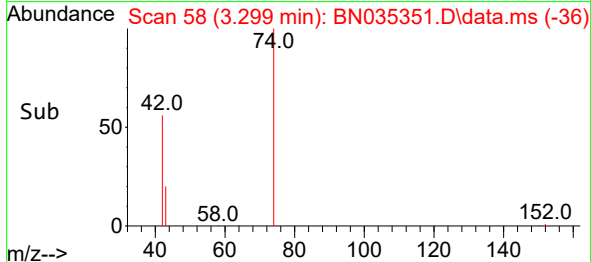
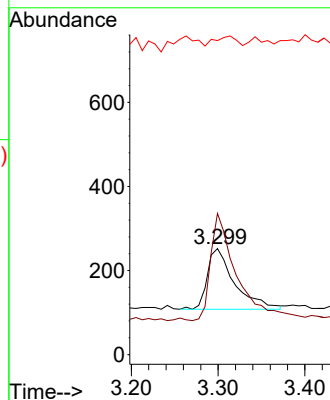
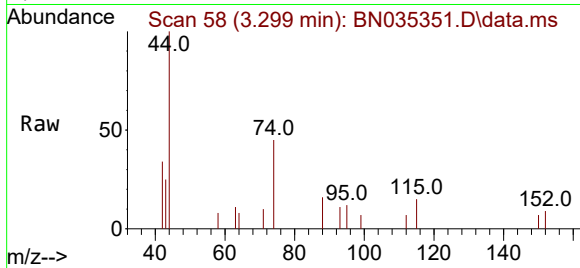




#3  
n-Nitrosodimethylamine  
Concen: 0.179 ng  
RT: 3.299 min Scan# 51  
Delta R.T. 0.007 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

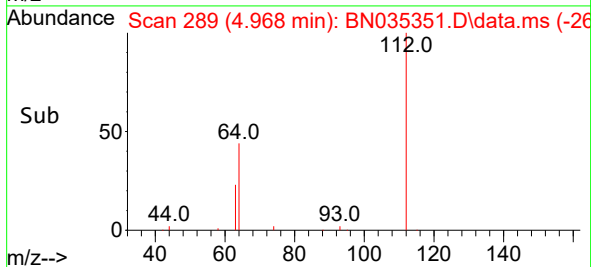
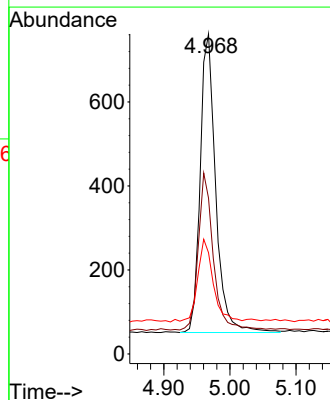
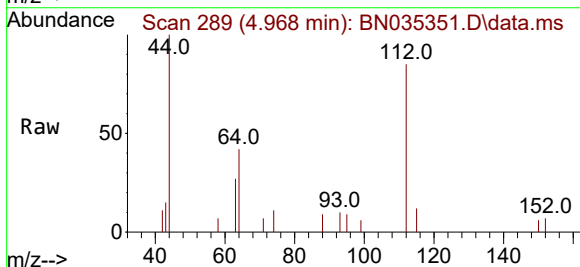
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

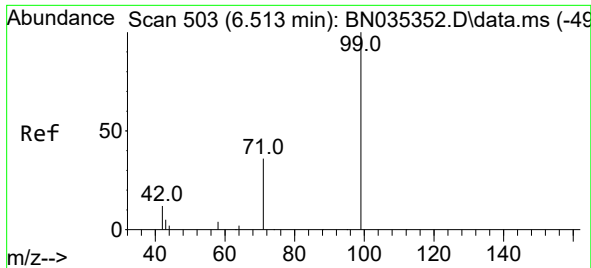
Tgt Ion: 42 Resp: 315  
Ion Ratio Lower Upper  
42 100  
74 172.4 124.9 187.3  
44 16.2 2.2 3.4#



#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

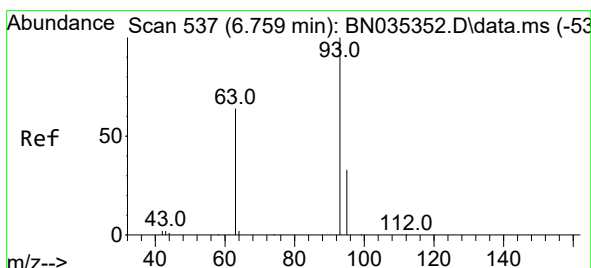
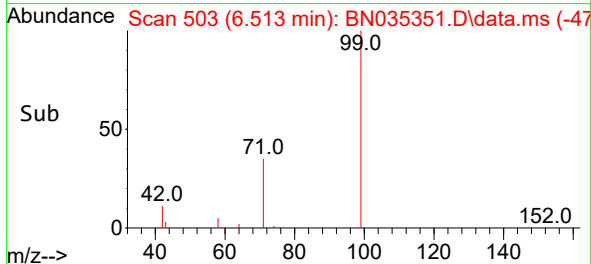
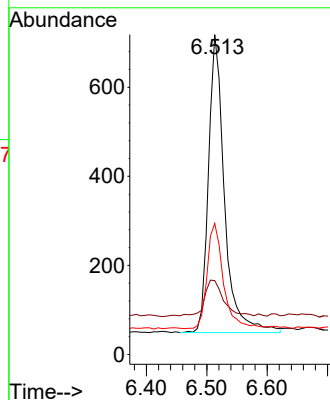
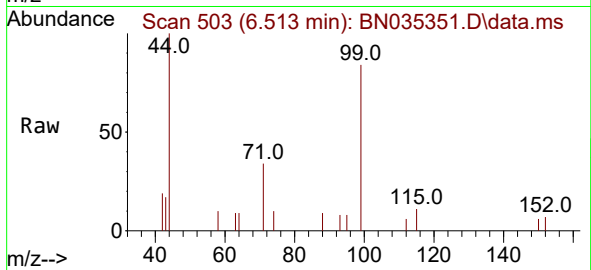




#5  
Phenol-d6  
Concen: 0.186 ng  
RT: 6.513 min Scan# 503  
Delta R.T. -0.000 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

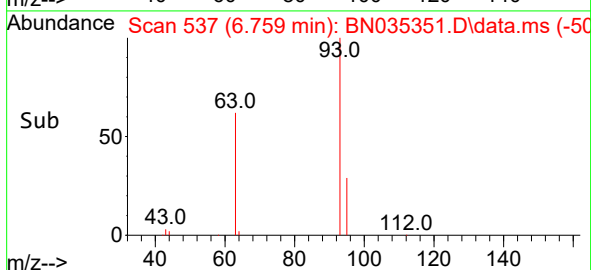
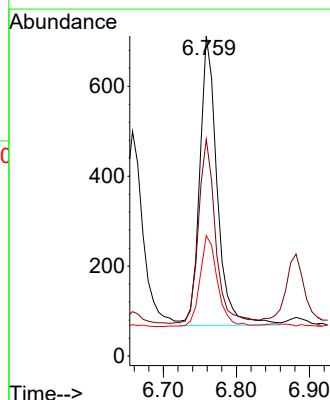
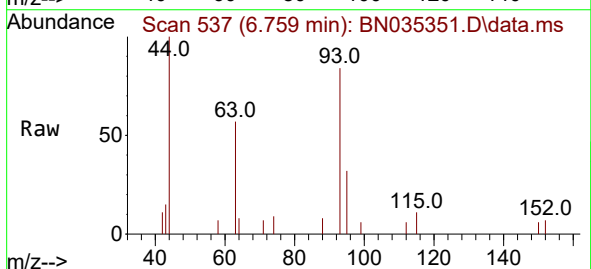
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

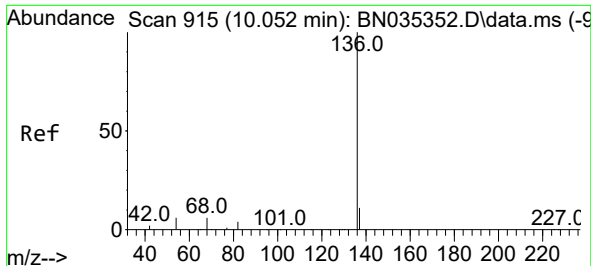
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 99    | Resp: | 1236  |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 15.0  | 11.4  | 17.2  |
| 71       | 35.8  | 29.3  | 43.9  |



#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  |

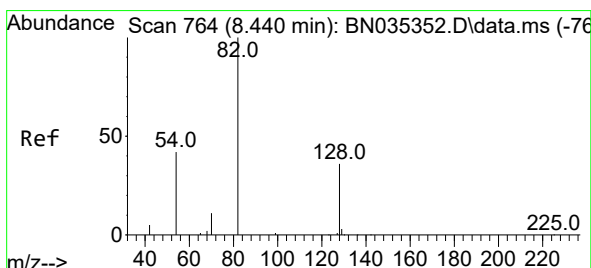
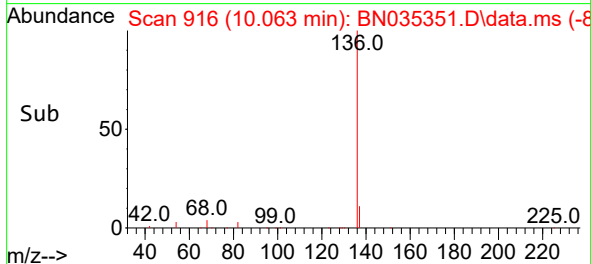
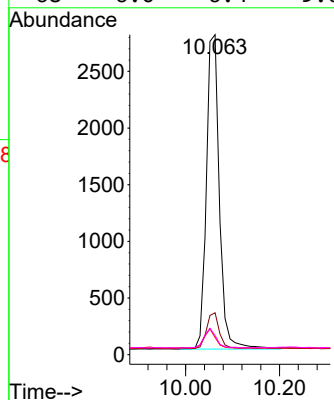
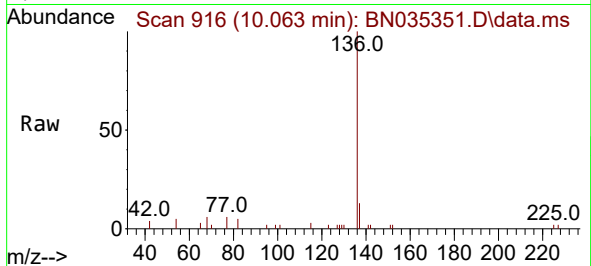




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.063 min Scan# 915  
Delta R.T. 0.011 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

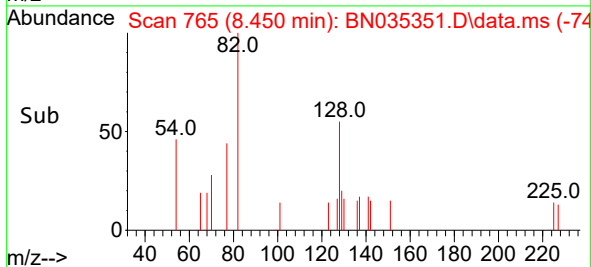
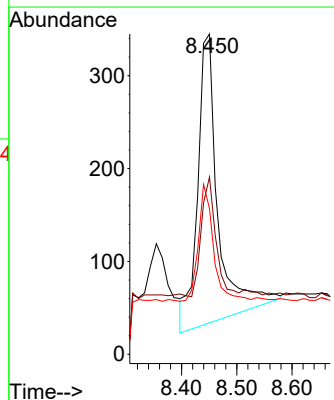
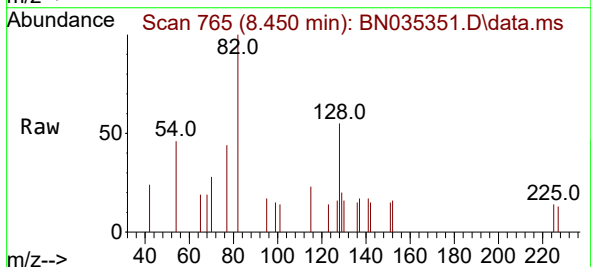
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

|           |       |       |      |
|-----------|-------|-------|------|
| 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# |

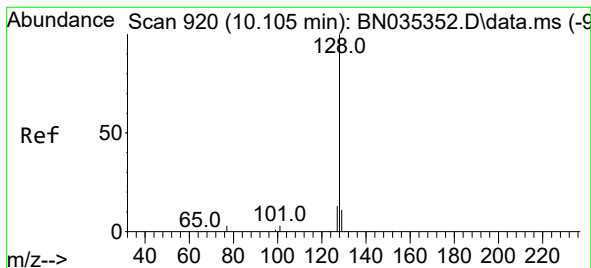


#8  
Nitrobenzene-d5  
Concen: 0.174 ng  
RT: 8.450 min Scan# 765  
Delta R.T. 0.011 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

|           |       |       |       |
|-----------|-------|-------|-------|
| 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

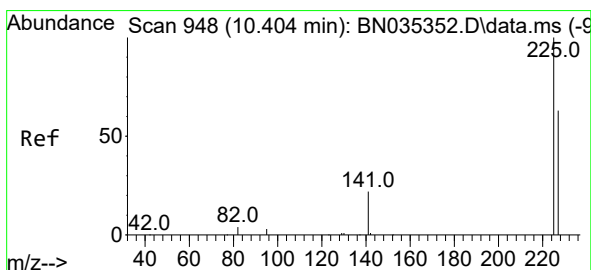
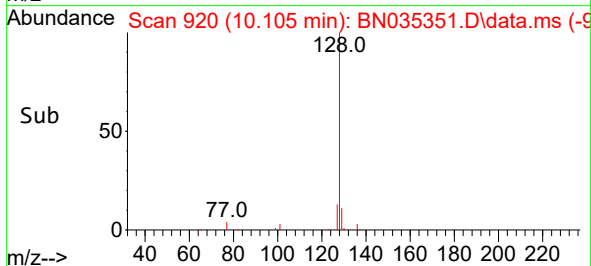
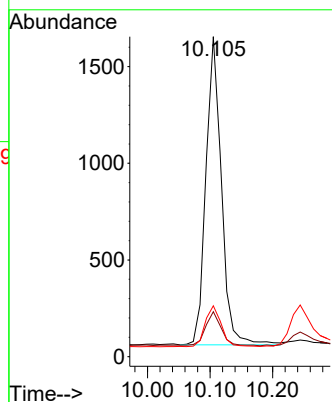
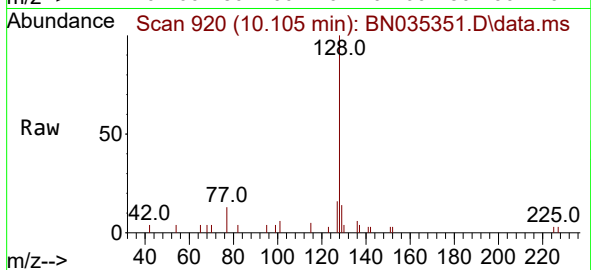
Tgt Ion:128 Resp: 2744

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

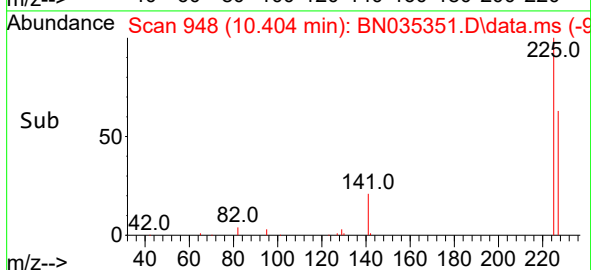
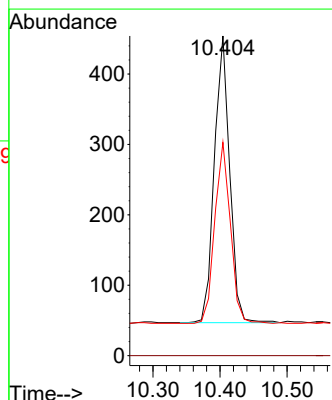
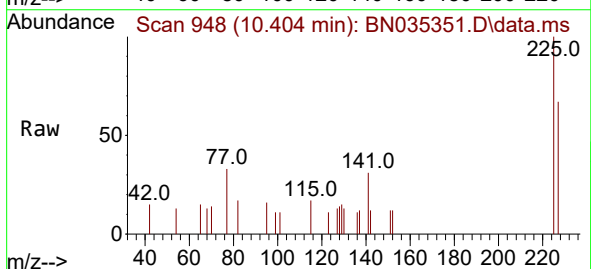
Tgt Ion:225 Resp: 646

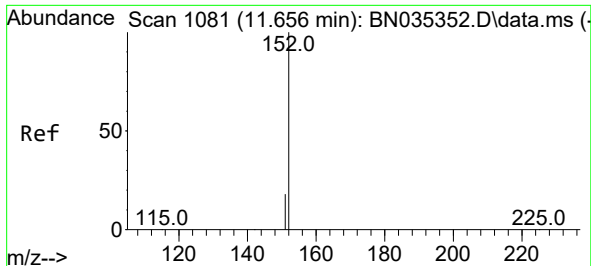
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 64.7 51.3 76.9

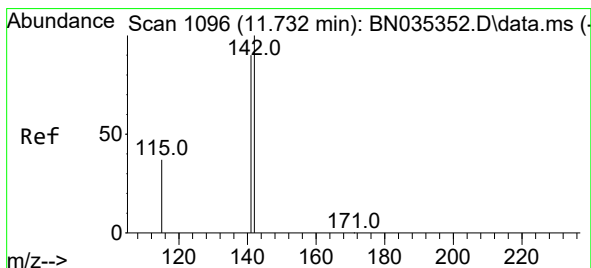
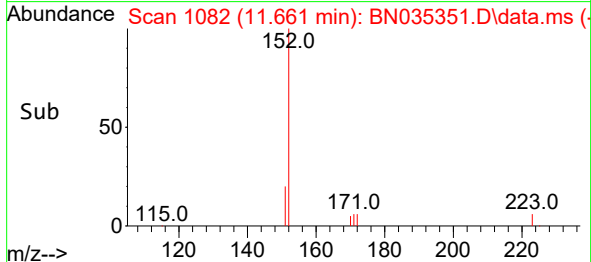
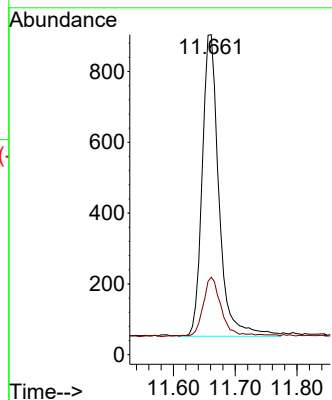
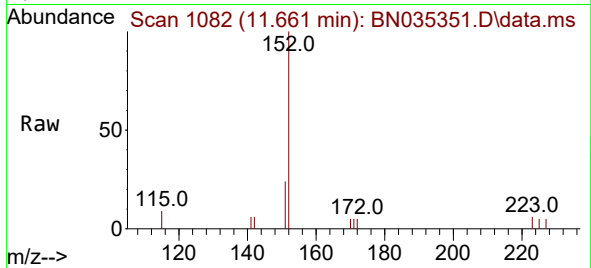




#11  
2-Methylnaphthalene-d10  
Concen: 0.169 ng  
RT: 11.661 min Scan# 1082  
Delta R.T. 0.005 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

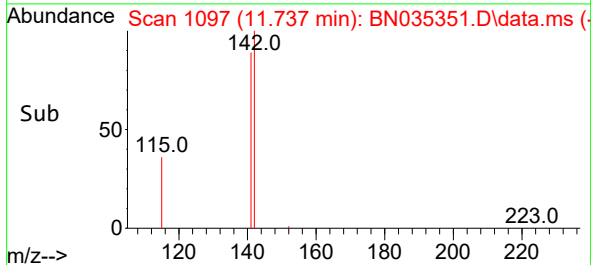
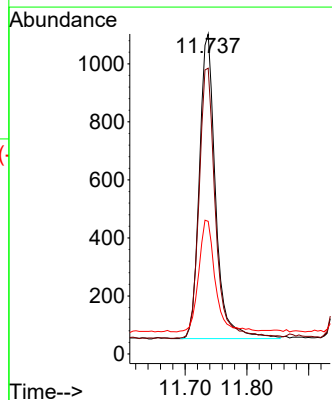
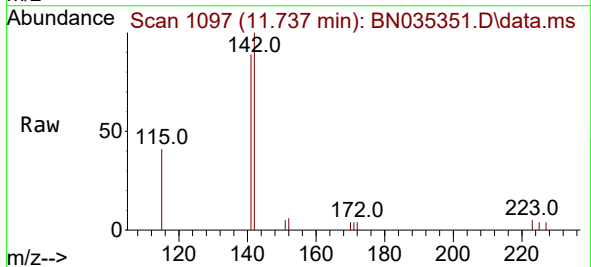
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

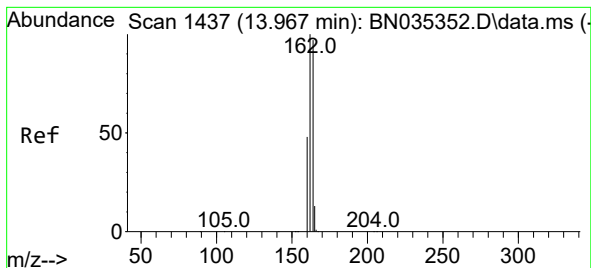
Tgt Ion:152 Resp: 1608  
Ion Ratio Lower Upper  
152 100  
151 22.3 16.6 25.0



#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# 14

Delta R.T. -0.000 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2

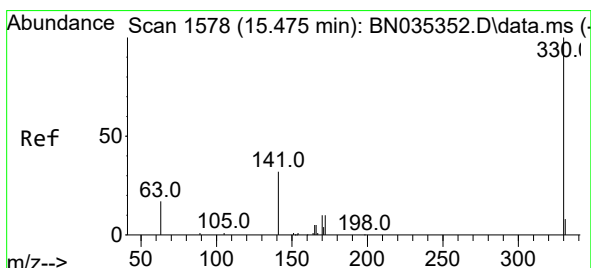
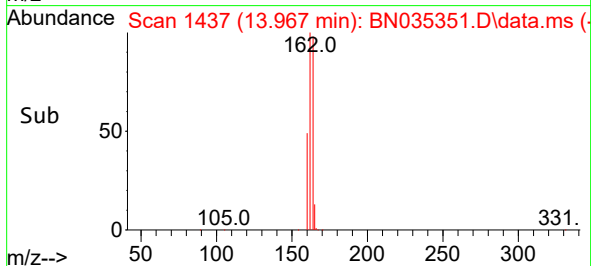
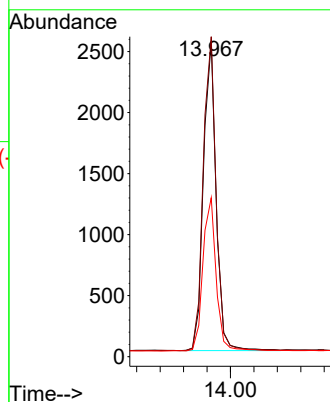
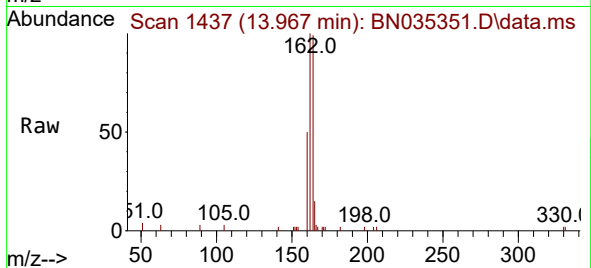
Tgt Ion:164 Resp: 3808

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

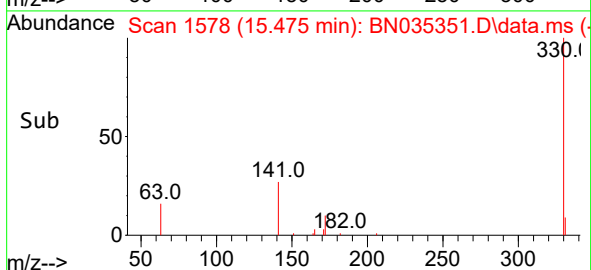
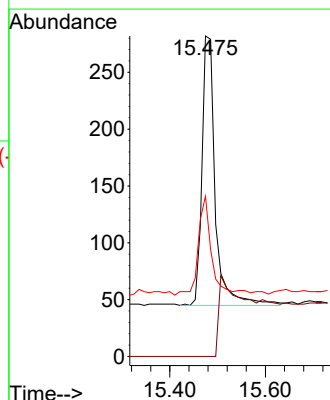
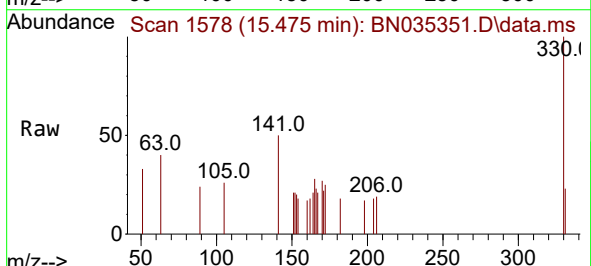
Tgt Ion:330 Resp: 492

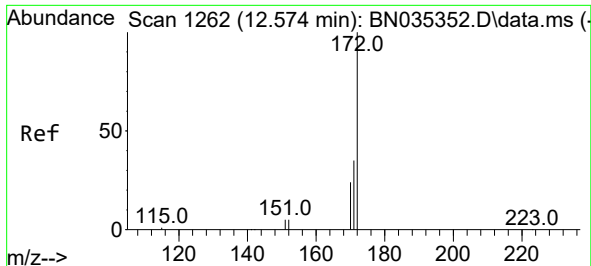
Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

141 37.2 26.6 40.0

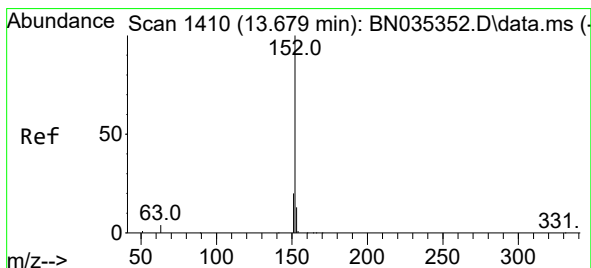
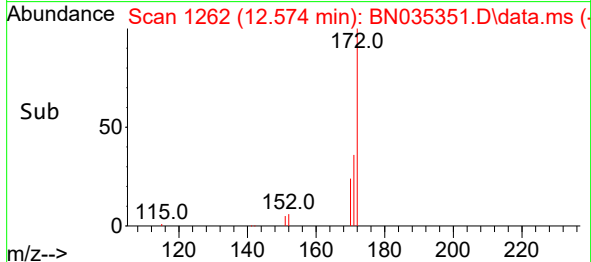
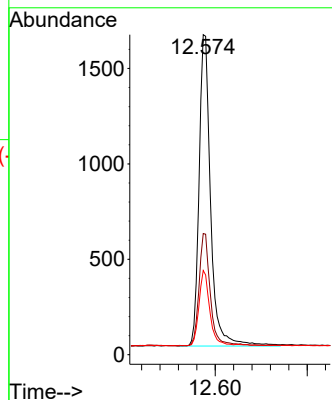
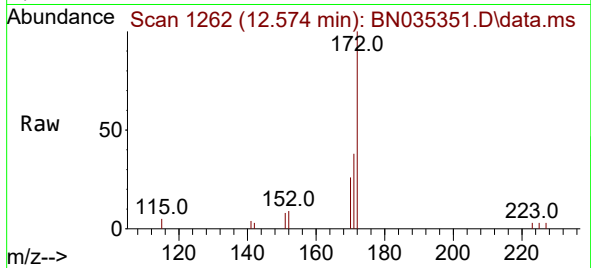




#15  
2-Fluorobiphenyl  
Concen: 0.184 ng  
RT: 12.574 min Scan# 1262  
Delta R.T. -0.000 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

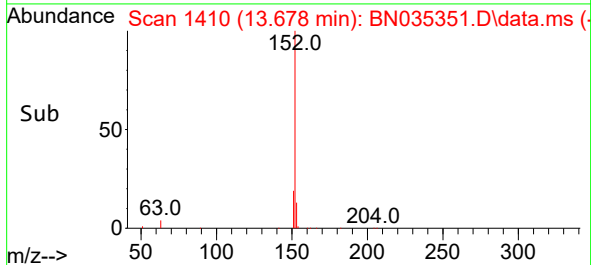
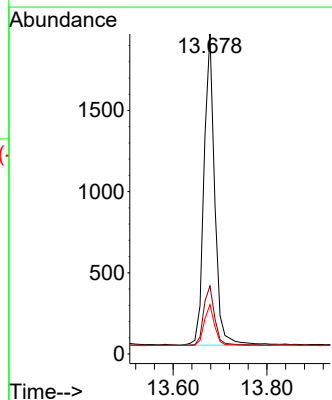
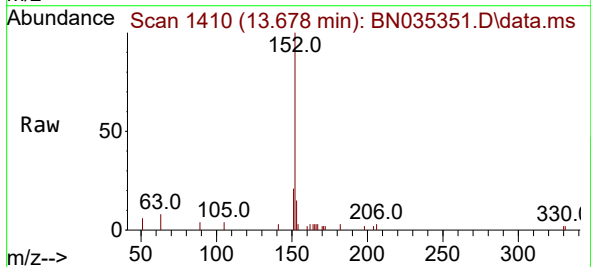
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDIC0.2

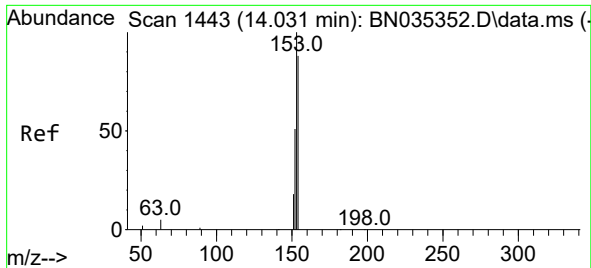
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 172   | Resp: | 2838 |
| Ion Ratio | Lower | Upper |      |
| 172       | 100   |       |      |
| 171       | 37.9  | 29.0  | 43.4 |
| 170       | 26.3  | 19.8  | 29.8 |



#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 |

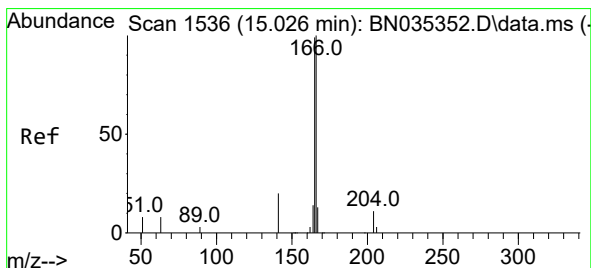
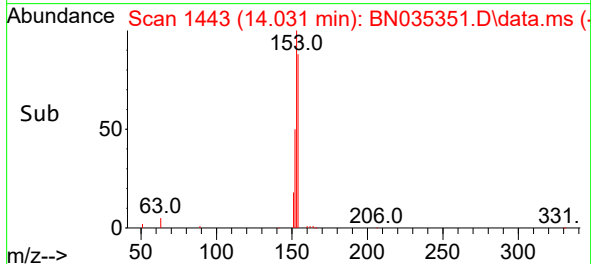
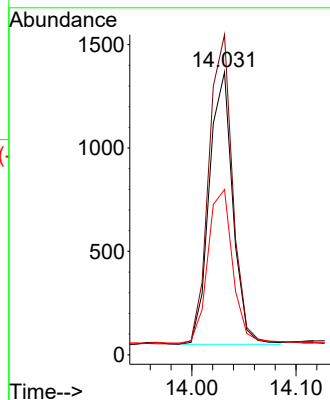
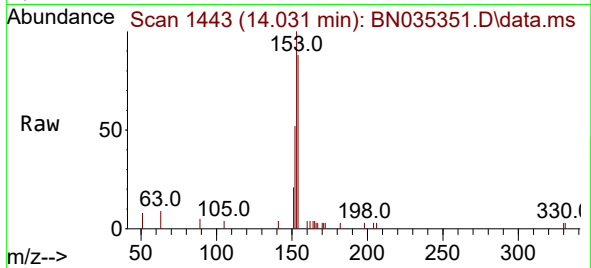




#17  
Acenaphthene  
Concen: 0.194 ng  
RT: 14.031 min Scan# 1443  
Delta R.T. -0.000 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

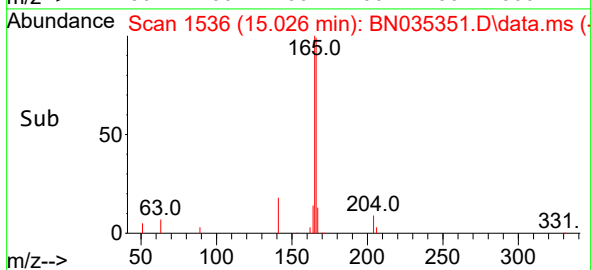
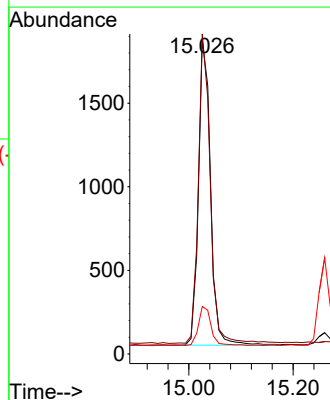
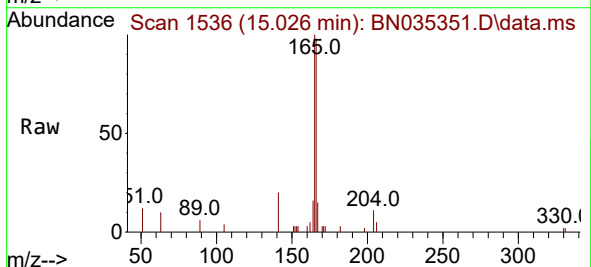
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

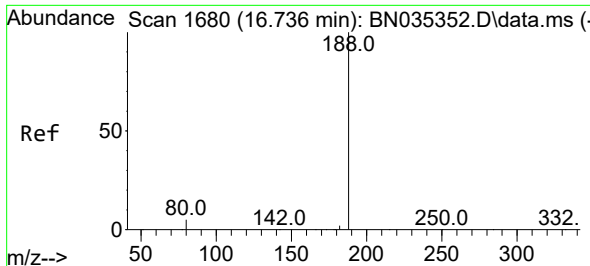
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 154   | Resp: | 2064  |
| Ion Ratio | Lower | Upper |       |
| 154       | 100   |       |       |
| 153       | 115.2 | 92.6  | 139.0 |
| 152       | 60.7  | 49.0  | 73.6  |



#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  |

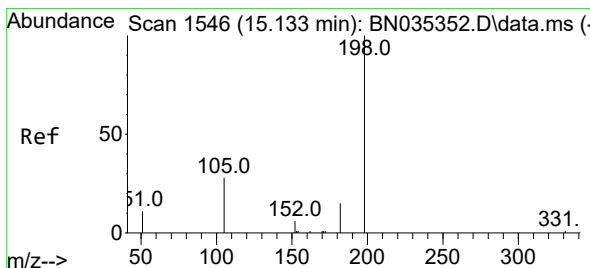
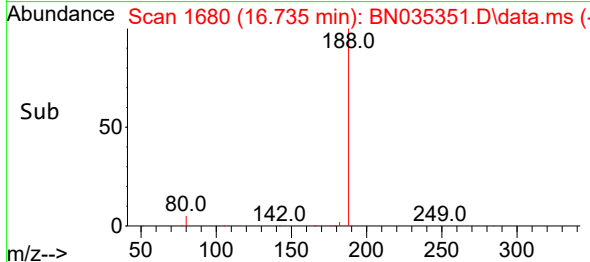
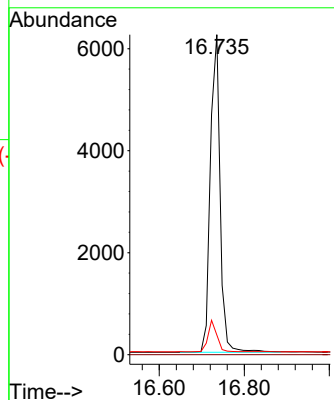
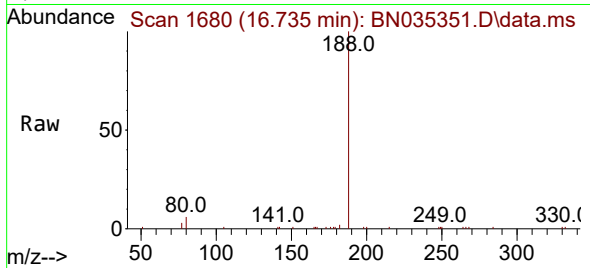




#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 16.735 min Scan# 1680  
Delta R.T. -0.000 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

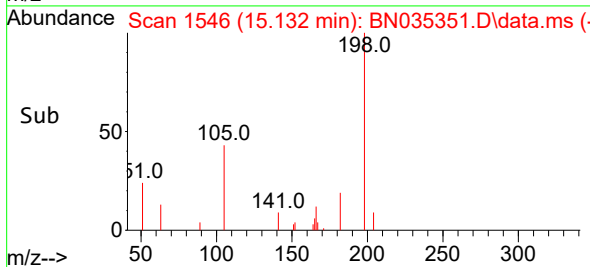
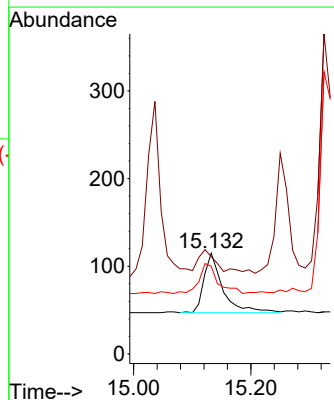
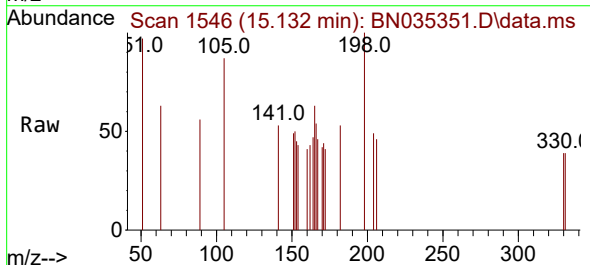
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

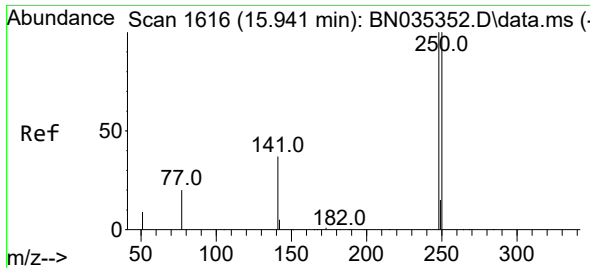
Tgt Ion:188 Resp: 9904  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 6.2 4.6 6.8



#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#

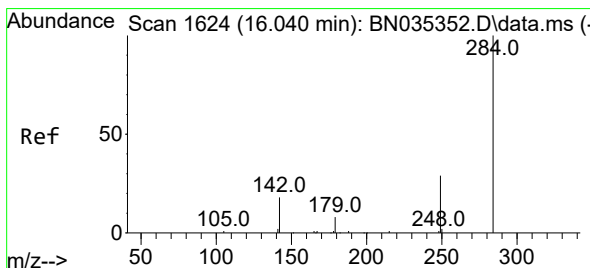
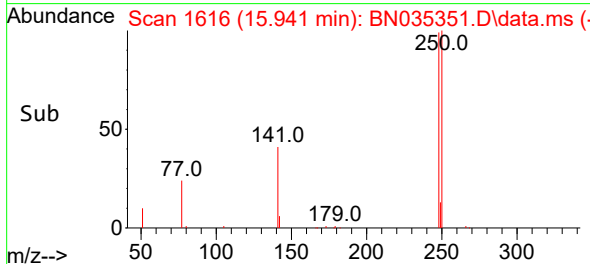
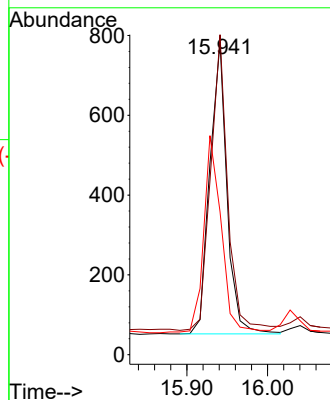
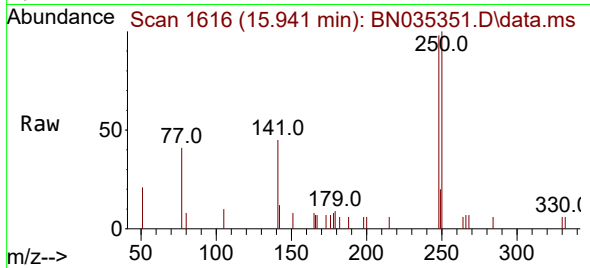




#21  
4-Bromophenyl-phenylether  
Concen: 0.171 ng  
RT: 15.941 min Scan# 1616  
Delta R.T. -0.000 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

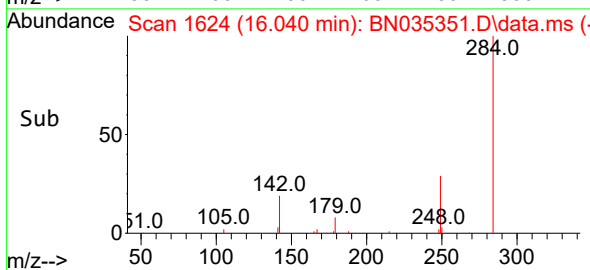
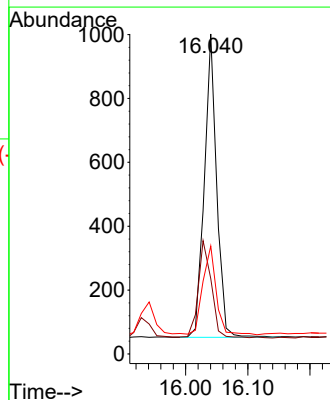
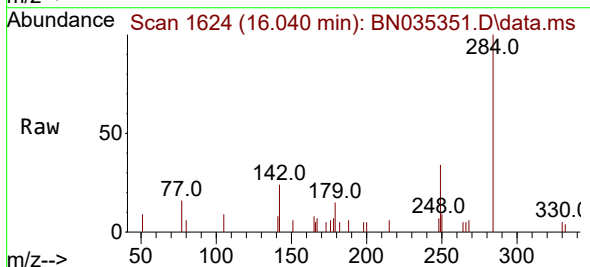
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

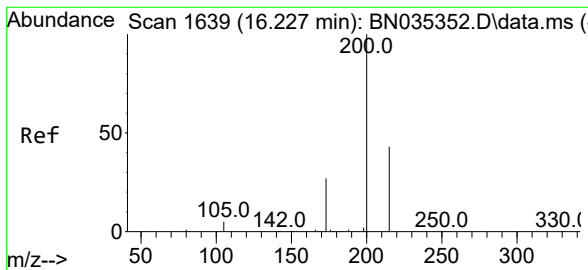
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 248   | Resp: | 1081  |
| Ion      | Ratio | Lower | Upper |
| 248      | 100   |       |       |
| 250      | 102.3 | 80.6  | 120.8 |
| 141      | 45.7  | 31.5  | 47.3  |



#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  |

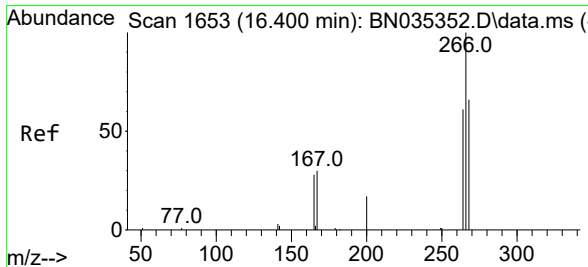
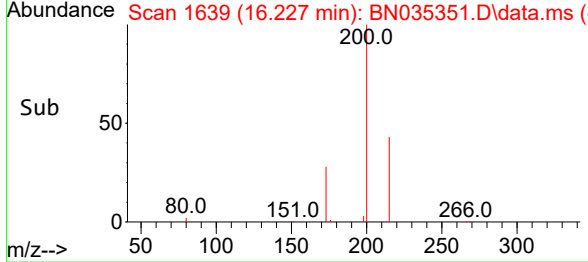
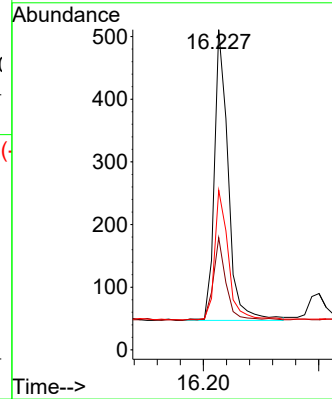
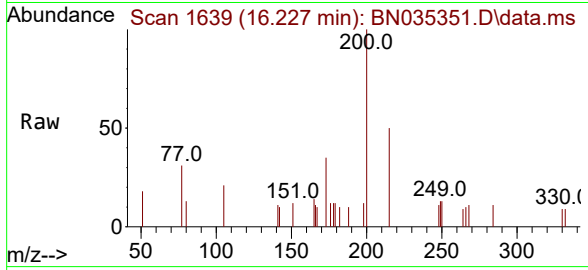




#23  
 Atrazine  
 Concen: 0.136 ng  
 RT: 16.227 min Scan# 1639  
 Delta R.T. -0.000 min  
 Lab File: BN035351.D  
 Acq: 27 Nov 2024 16:10

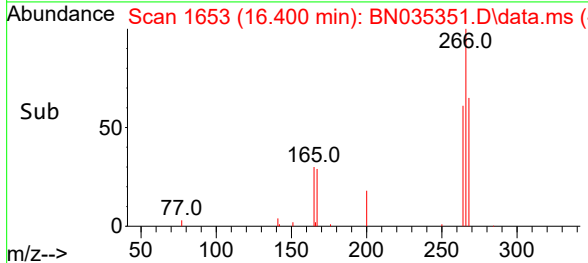
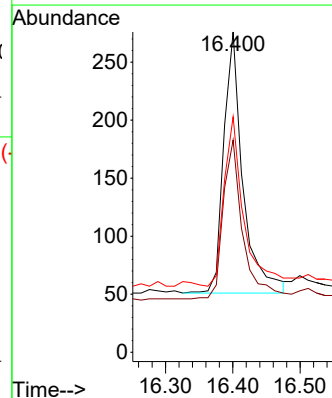
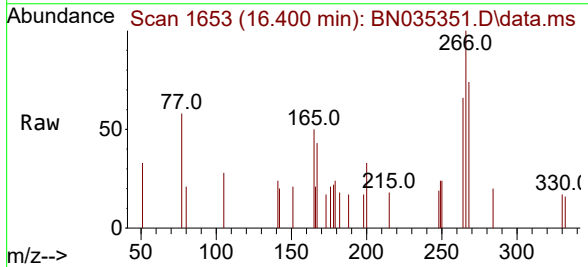
Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC0.2

|           |       |       |      |
|-----------|-------|-------|------|
| 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 |

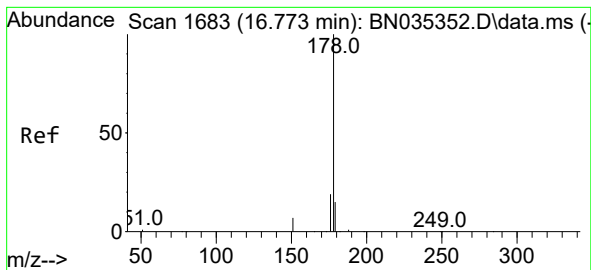


#24  
 Pentachlorophenol  
 Concen: 0.145 ng  
 RT: 16.400 min Scan# 1653  
 Delta R.T. -0.000 min  
 Lab File: BN035351.D  
 Acq: 27 Nov 2024 16:10

|           |       |       |      |
|-----------|-------|-------|------|
| 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 |



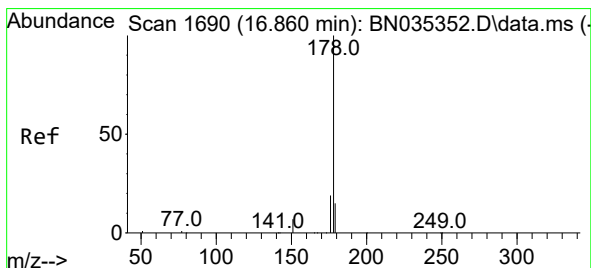
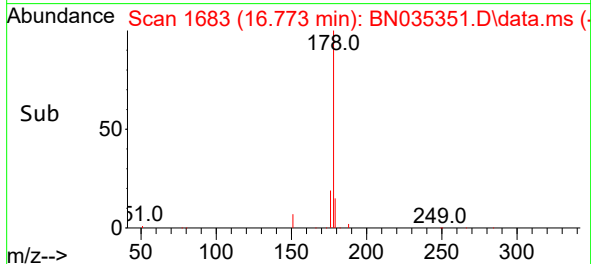
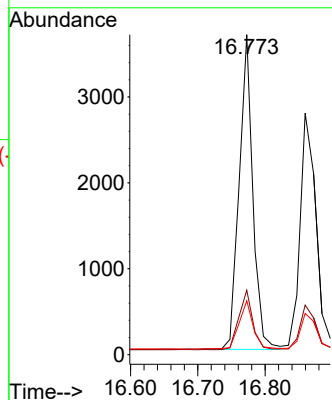
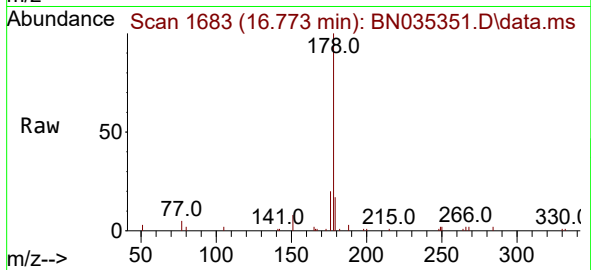




#25  
Phenanthrene  
Concen: 0.199 ng  
RT: 16.773 min Scan# 1683  
Delta R.T. -0.000 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

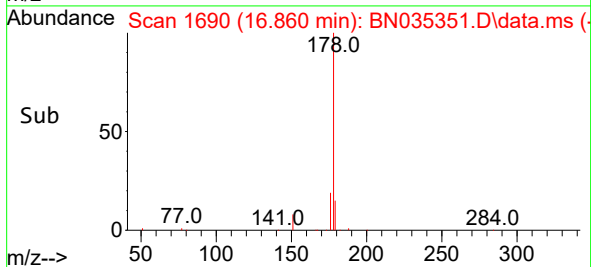
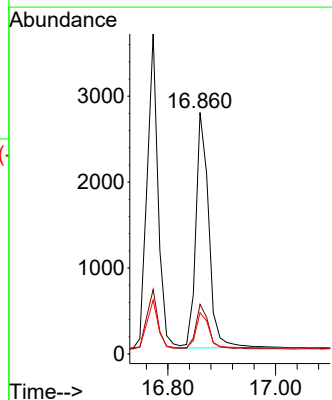
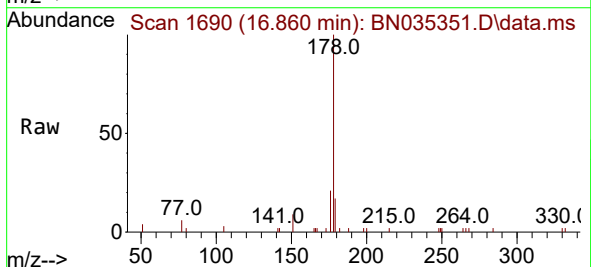
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

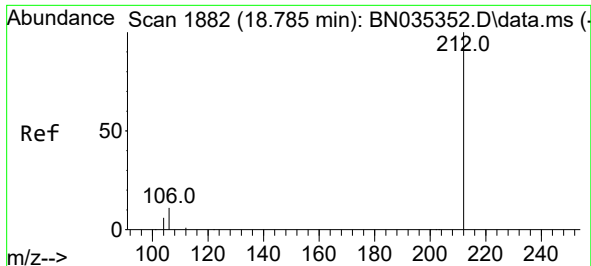
Tgt Ion:178 Resp: 5182  
Ion Ratio Lower Upper  
178 100  
176 18.9 15.4 23.2  
179 15.9 12.3 18.5



#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

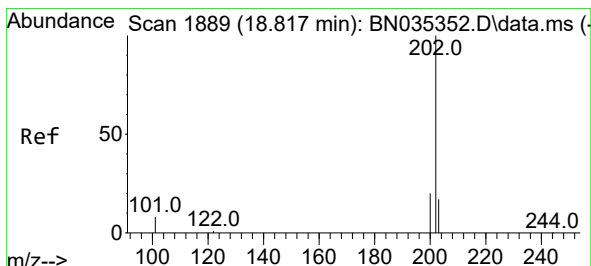
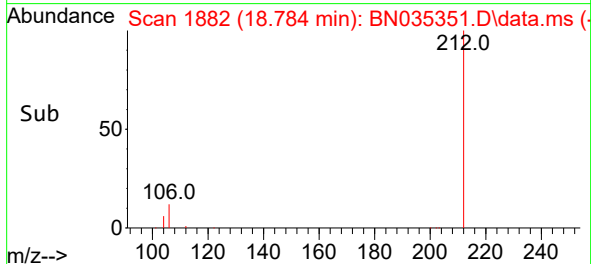
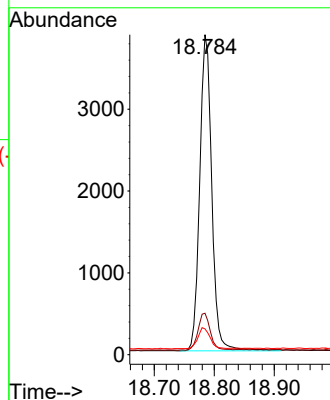
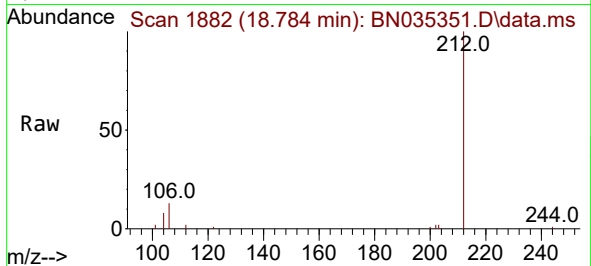




#27  
Fluoranthene-d10  
Concen: 0.177 ng  
RT: 18.784 min Scan# 1882  
Delta R.T. -0.000 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

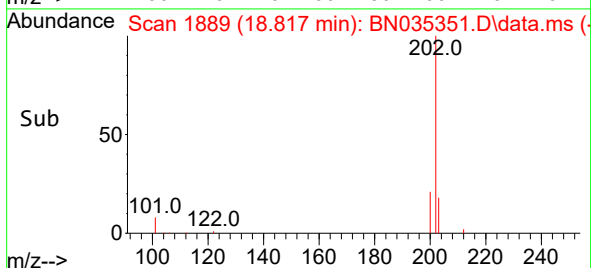
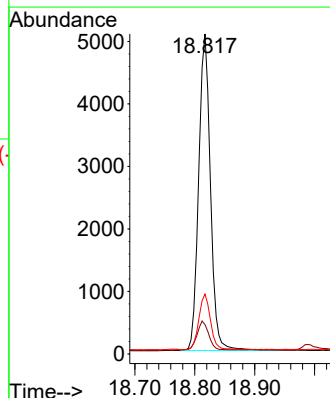
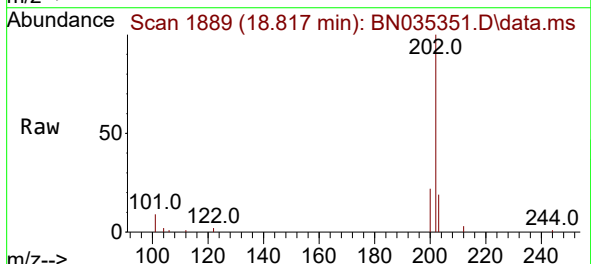
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

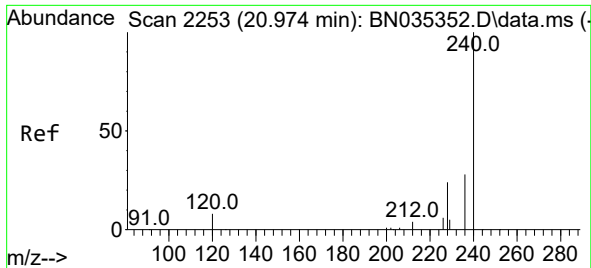
Tgt Ion:212 Resp: 5379  
Ion Ratio Lower Upper  
212 100  
106 11.8 9.2 13.8  
104 6.9 5.3 7.9



#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 :

SSTDIC0.2

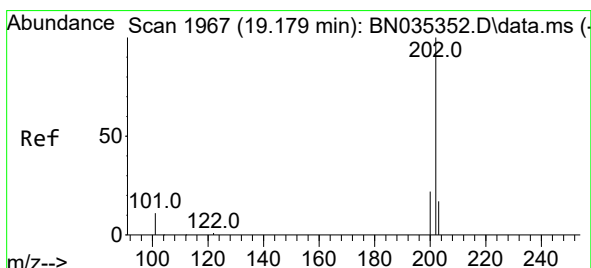
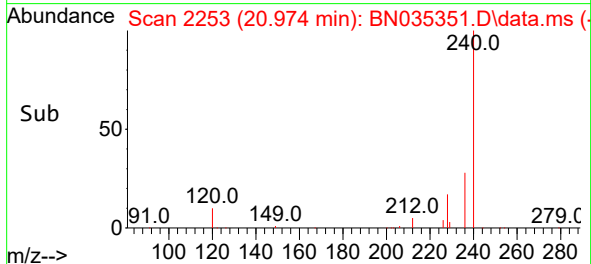
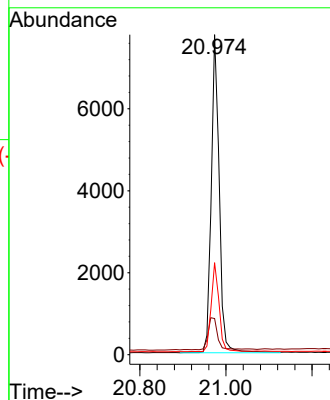
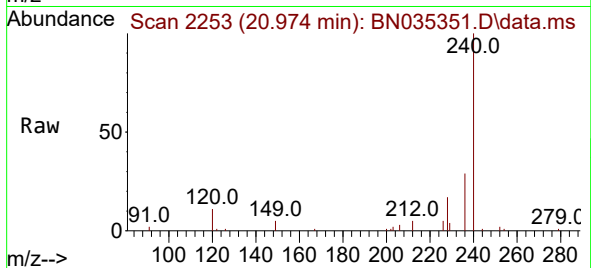
Tgt Ion:240 Resp: 9963

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

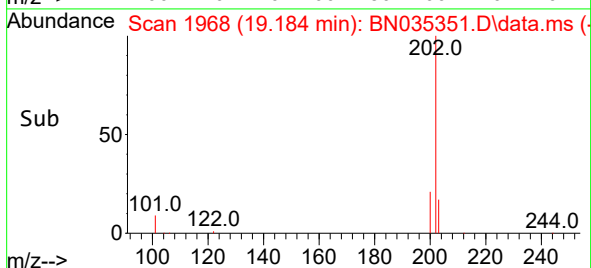
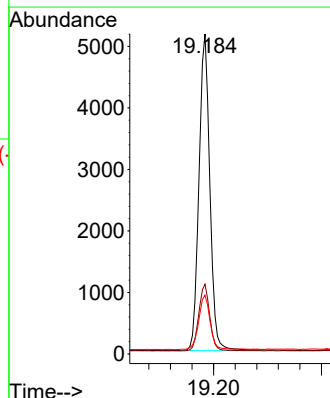
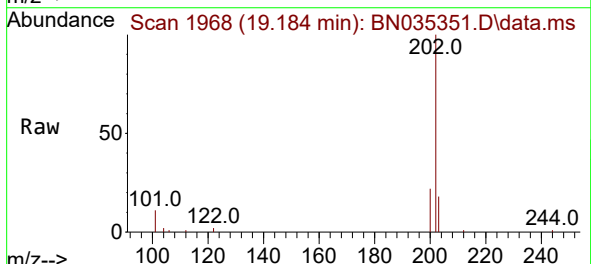
Tgt Ion:202 Resp: 7198

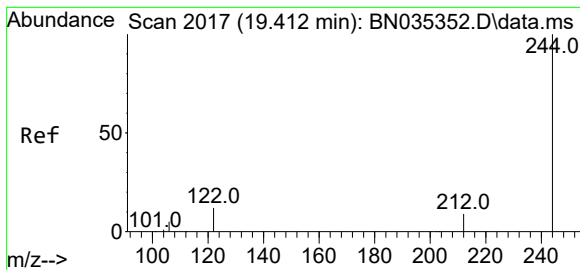
Ion Ratio Lower Upper

202 100

200 21.3 17.0 25.4

203 18.0 14.3 21.5

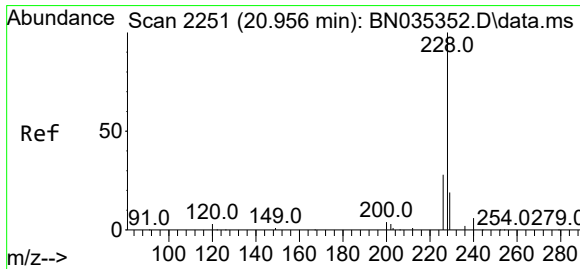
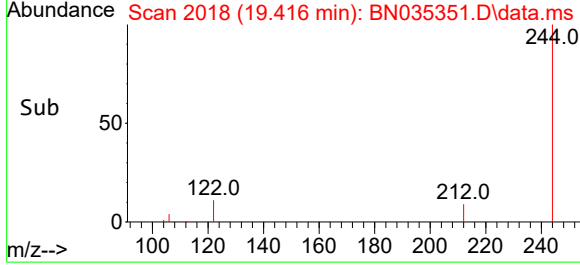
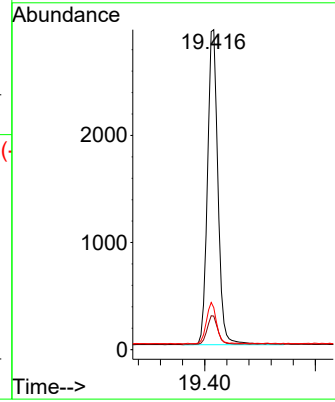
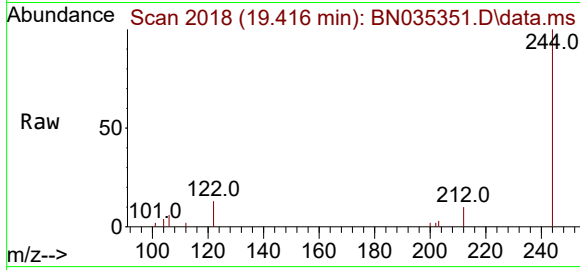




#31  
 Terphenyl-d14  
 Concen: 0.185 ng  
 RT: 19.416 min Scan# 2017  
 Delta R.T. 0.005 min  
 Lab File: BN035351.D  
 Acq: 27 Nov 2024 16:10

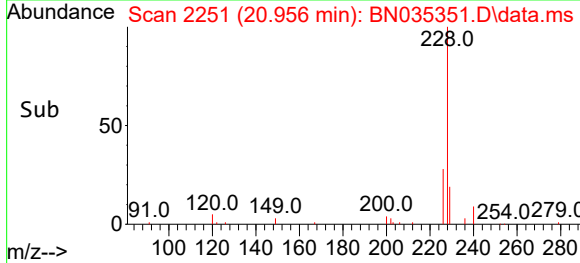
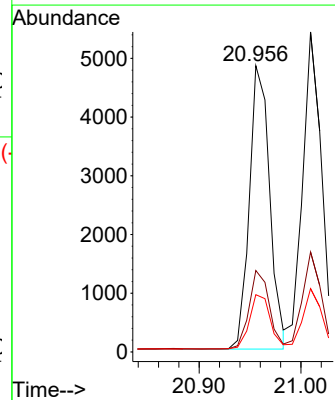
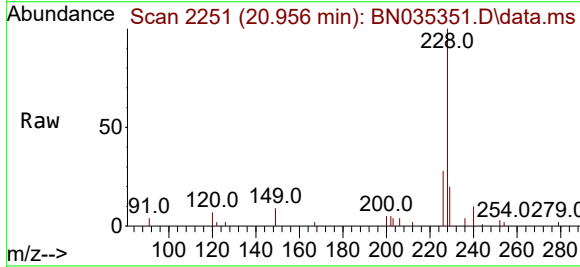
Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC0.2

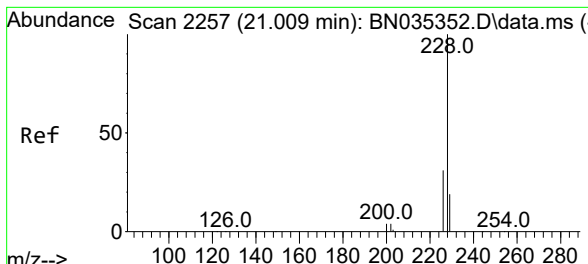
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 244   | Resp: | 3871 |
| Ion Ratio | Lower | Upper |      |
| 244       | 100   |       |      |
| 212       | 10.5  | 8.1   | 12.1 |
| 122       | 13.1  | 10.3  | 15.5 |



#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 |

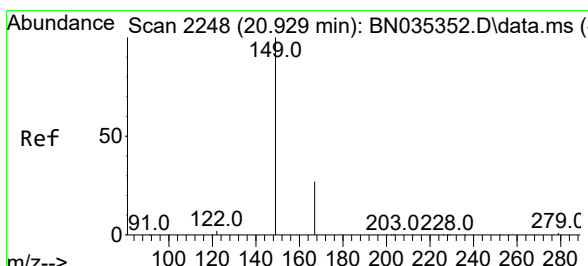
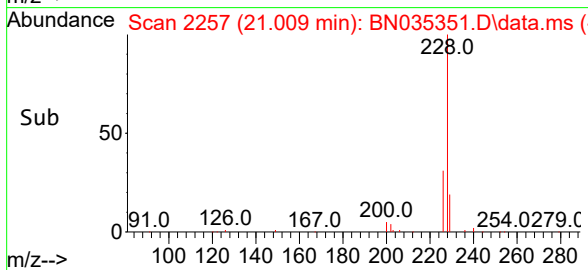
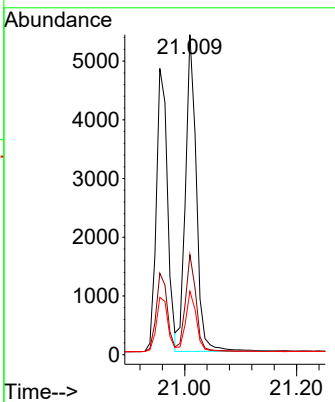
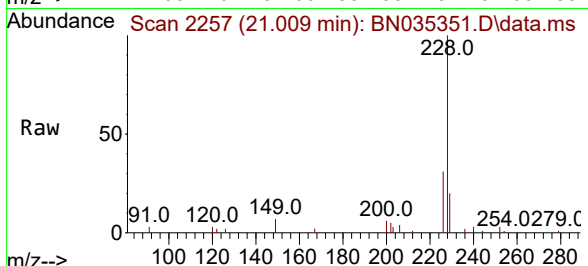




#33  
 Chrysene  
 Concen: 0.211 ng  
 RT: 21.009 min Scan# 21  
 Delta R.T. -0.000 min  
 Lab File: BN035351.D  
 Acq: 27 Nov 2024 16:10

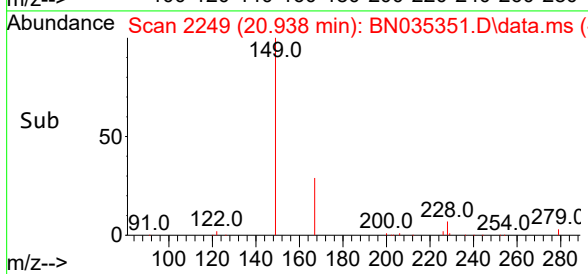
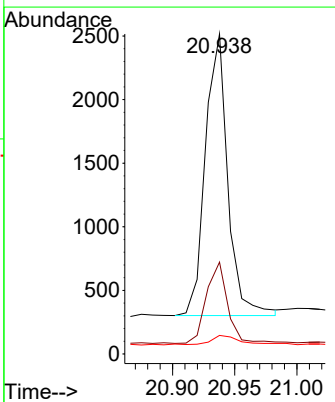
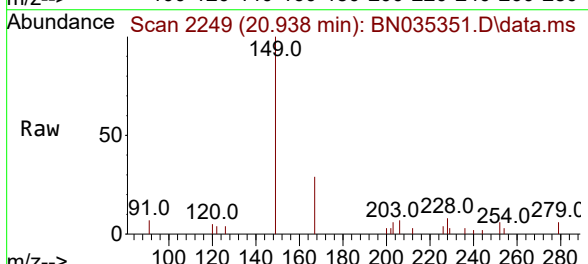
Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC0.2

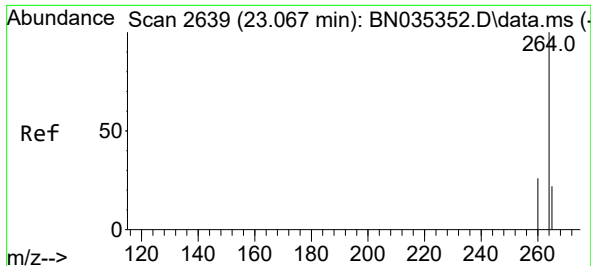
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 228   | Resp: | 7234 |
| Ion Ratio | Lower | Upper |      |
| 228       | 100   |       |      |
| 226       | 31.2  | 24.6  | 37.0 |
| 229       | 19.8  | 15.9  | 23.9 |



#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

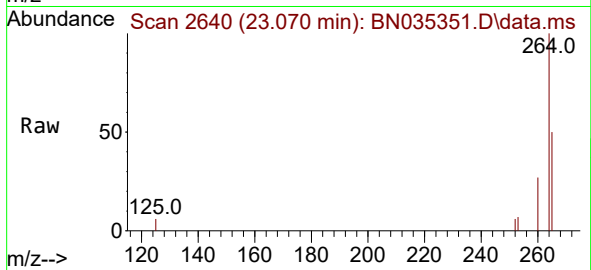
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 149   | Resp: | 2779 |
| Ion Ratio | Lower | Upper |      |
| 149       | 100   |       |      |
| 167       | 27.5  | 22.2  | 33.4 |
| 279       | 4.8   | 2.7   | 4.1  |



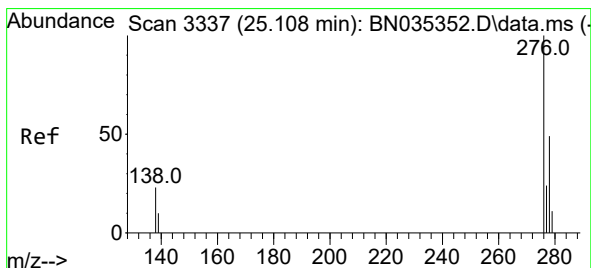
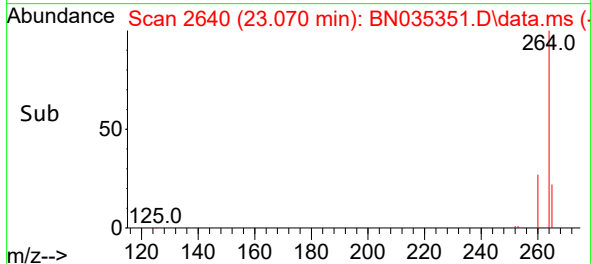
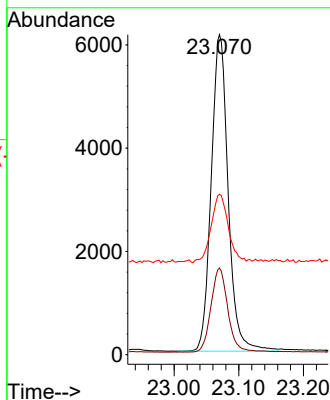


#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.070 min Scan# 2640  
Delta R.T. 0.003 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

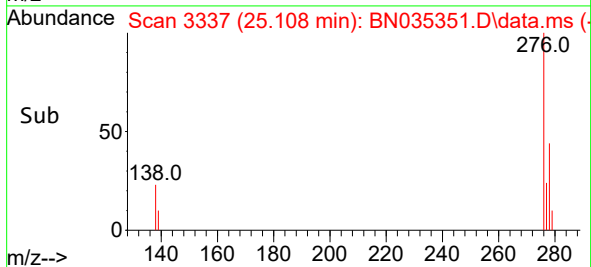
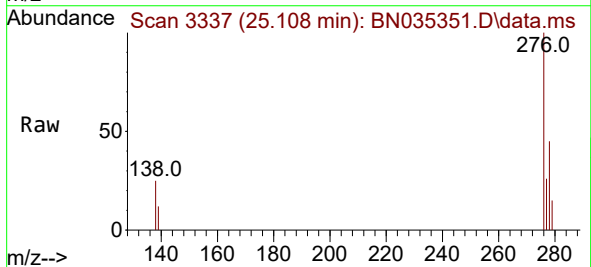
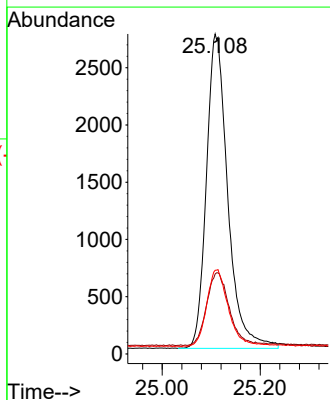


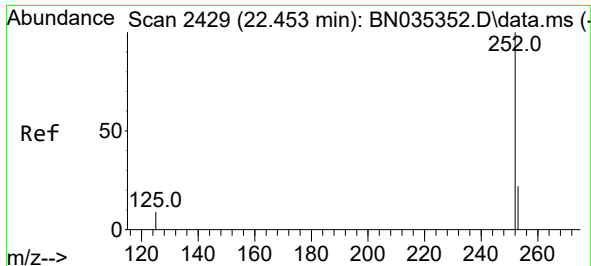
Tgt Ion:264 Resp: 11158  
Ion Ratio Lower Upper  
264 100  
260 27.1 21.4 32.2  
265 50.2 40.2 60.4



#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

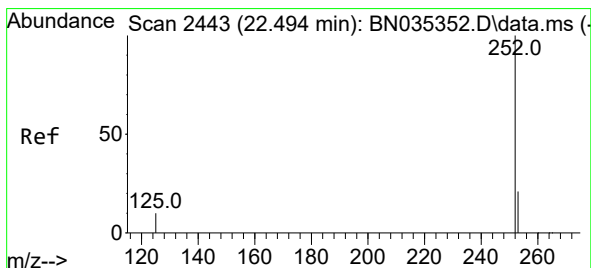
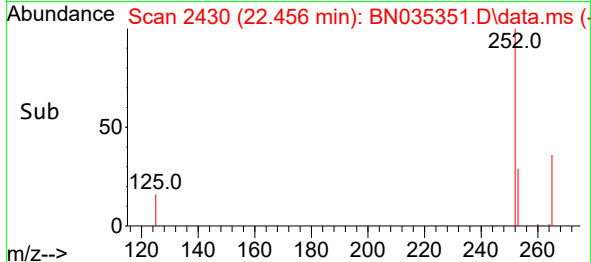
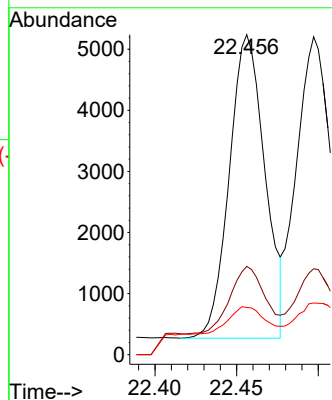
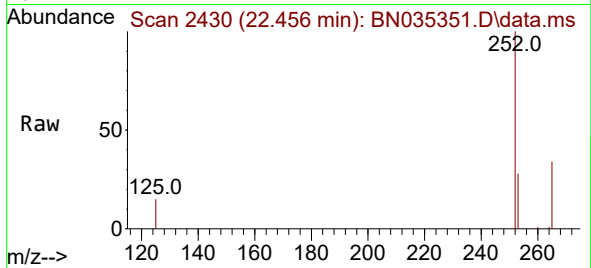




#37  
Benzo(b)fluoranthene  
Concen: 0.200 ng  
RT: 22.456 min Scan# 2430  
Delta R.T. 0.003 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

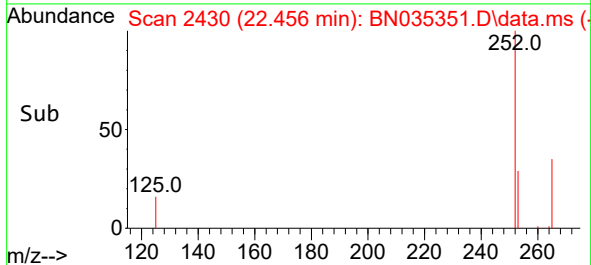
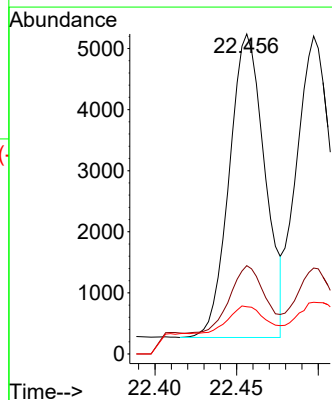
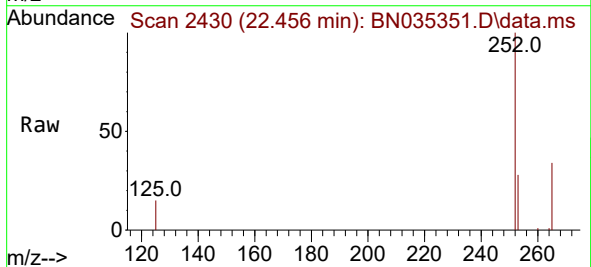
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

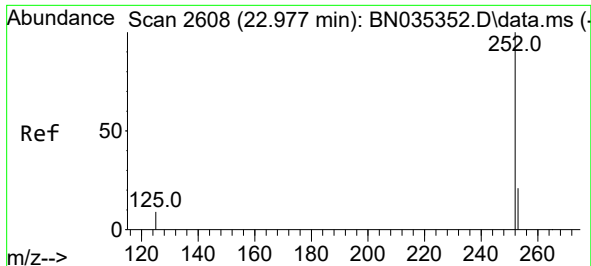
Tgt Ion:252 Resp: 7522  
Ion Ratio Lower Upper  
252 100  
253 27.6 19.6 29.4  
125 14.8 9.6 14.4#



#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# 2

Delta R.T. 0.003 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2

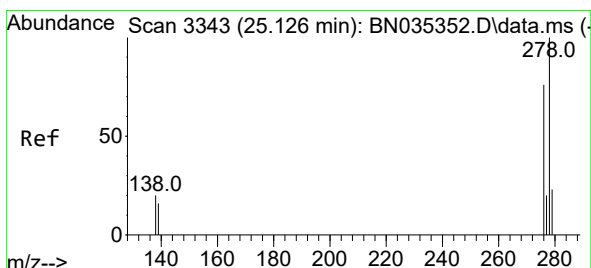
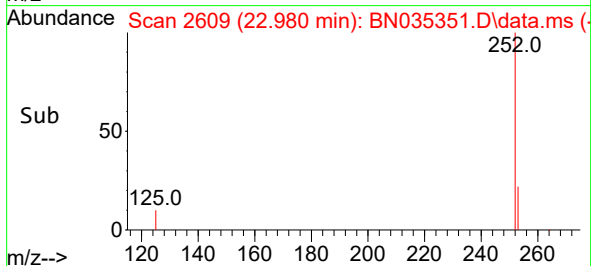
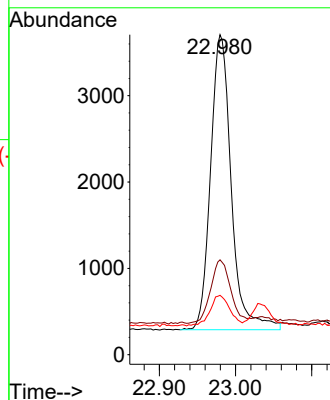
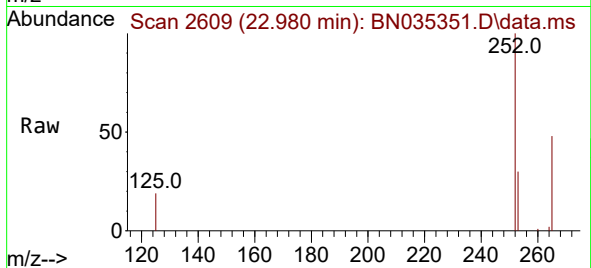
Tgt Ion:252 Resp: 6450

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

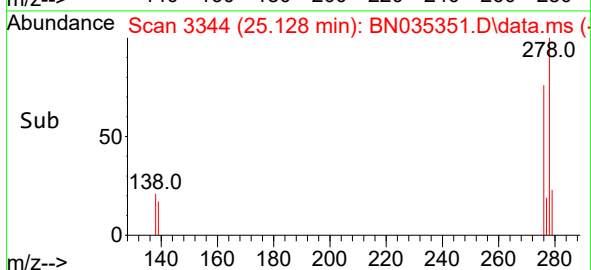
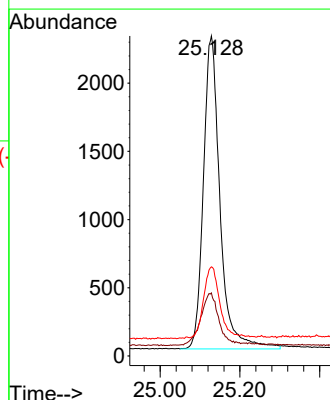
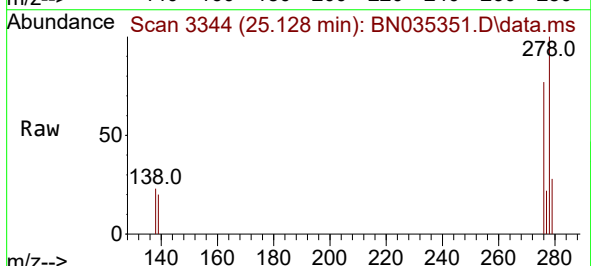
Tgt Ion:278 Resp: 6620

Ion Ratio Lower Upper

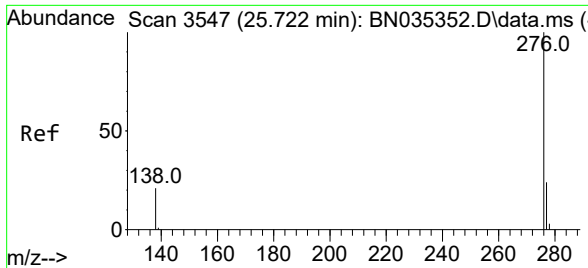
278 100

139 19.7 14.2 21.4

279 27.9 20.5 30.7

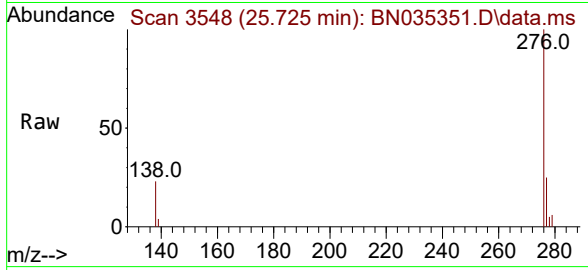




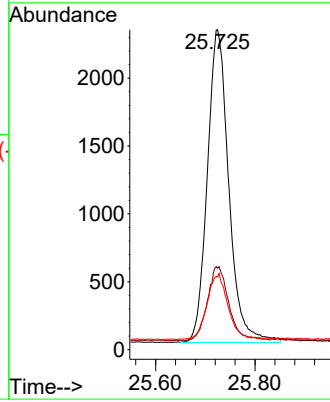
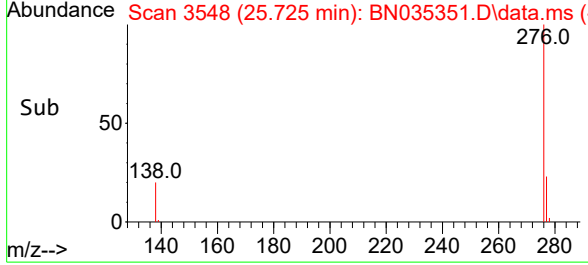


#41  
 Benzo(g,h,i)perylene  
 Concen: 0.184 ng  
 RT: 25.725 min Scan# 31  
 Delta R.T. 0.003 min  
 Lab File: BN035351.D  
 Acq: 27 Nov 2024 16:10

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

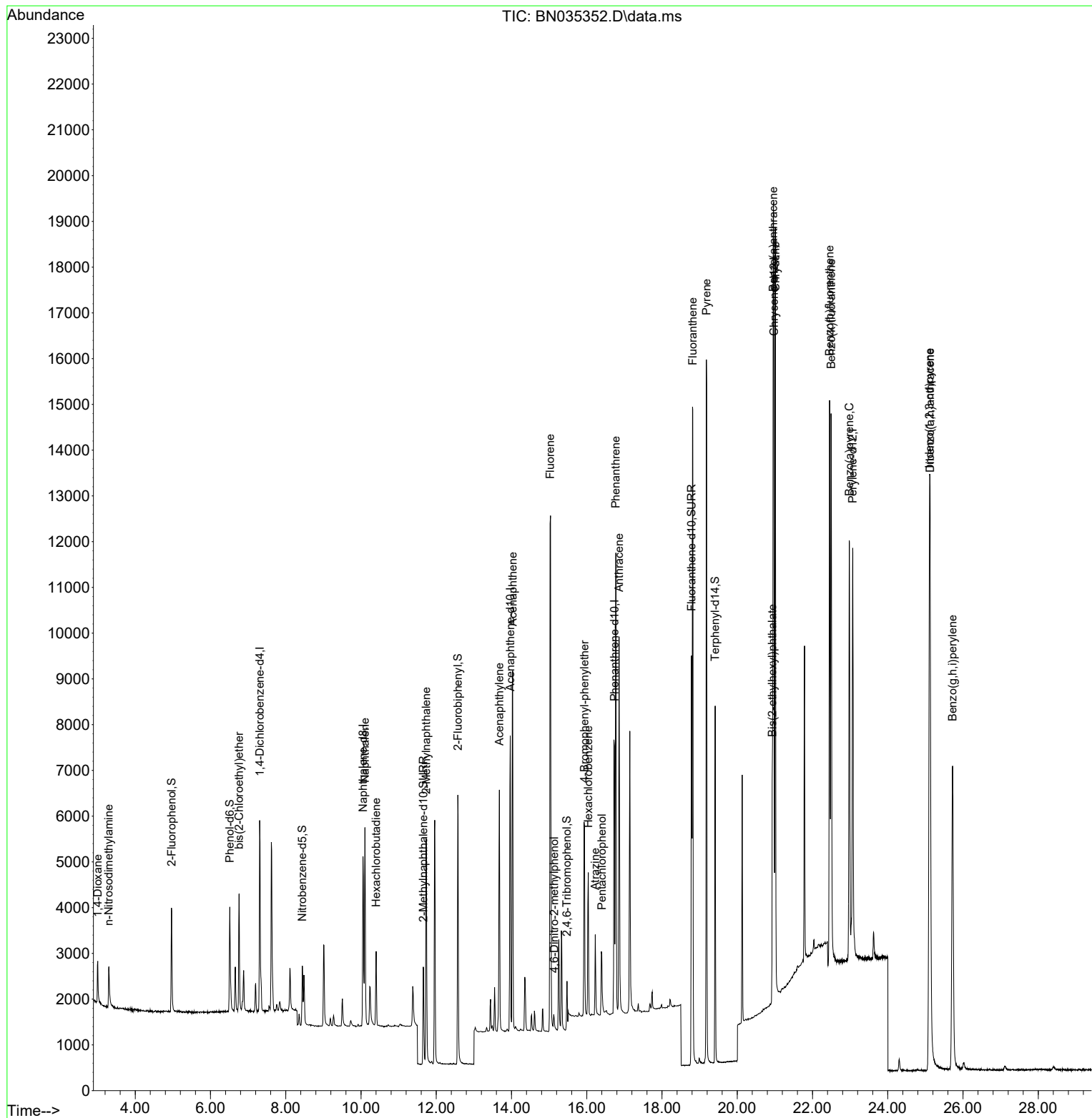
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.308  | 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      |

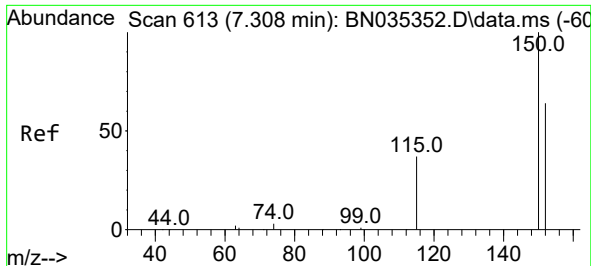
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

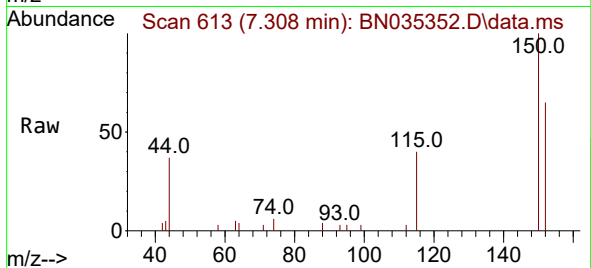
Quant Time: Nov 27 22:52:52 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Nov 27 22:48:24 2024  
Response via : Initial Calibration



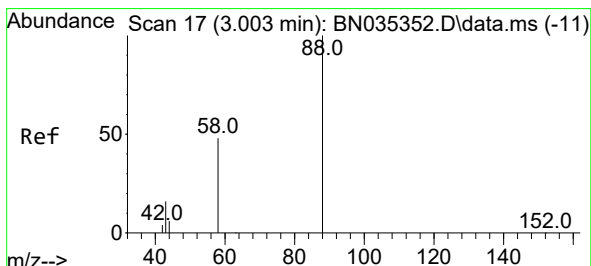
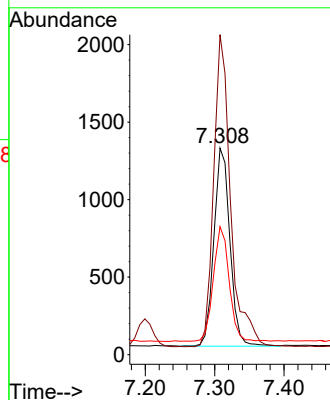
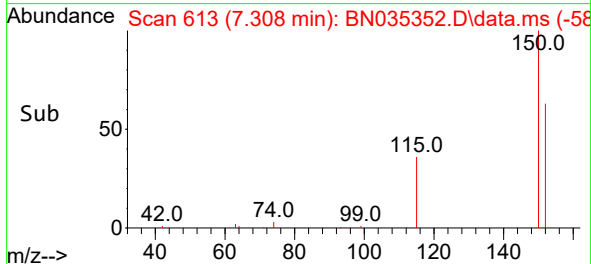


#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.308 min Scan# 613  
Delta R.T. -0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

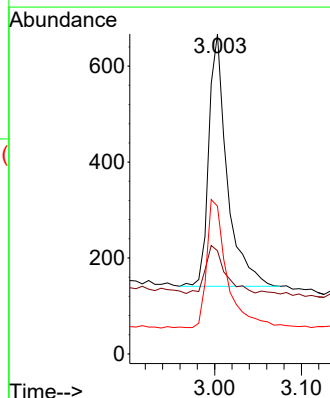
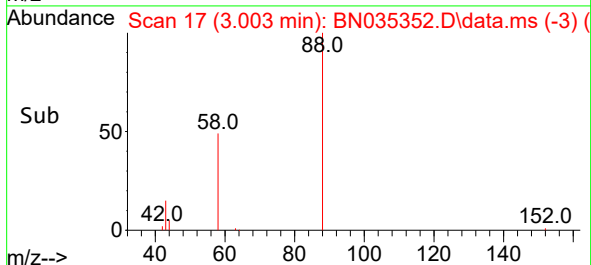
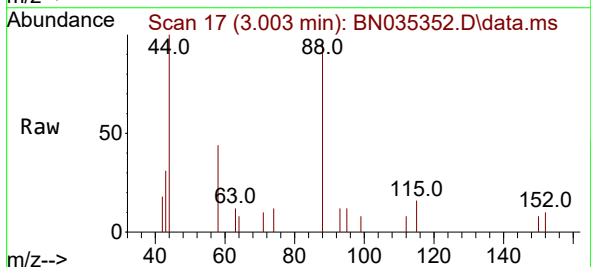


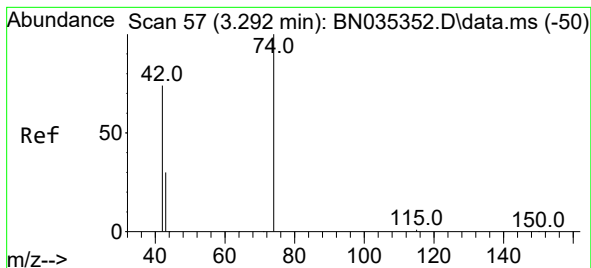
Tgt Ion:152 Resp: 2048  
Ion Ratio Lower Upper  
152 100  
150 155.0 124.0 186.0  
115 62.0 49.6 74.4



#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 :

SSTDICCC0.4

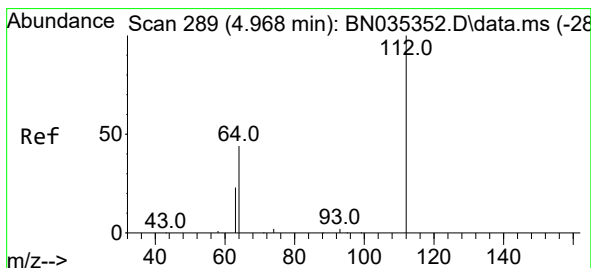
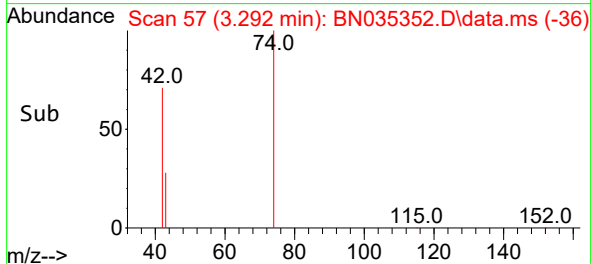
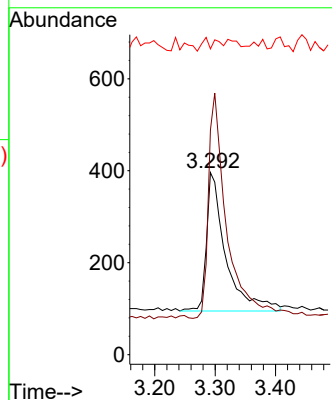
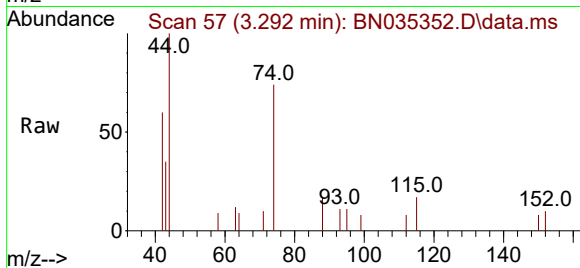
Tgt Ion: 42 Resp: 668

Ion Ratio Lower Upper

42 100

74 156.1 124.9 187.3

44 2.8 2.2 3.4



#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

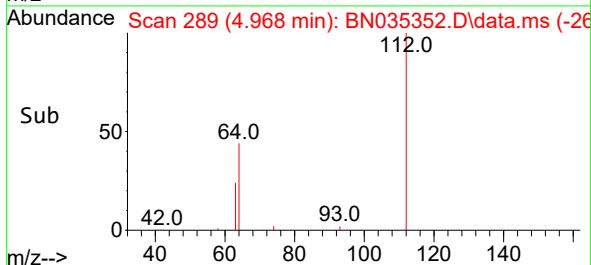
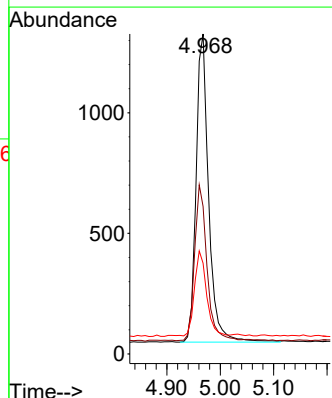
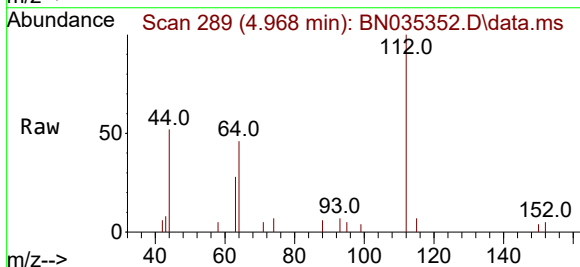
Tgt Ion: 112 Resp: 2085

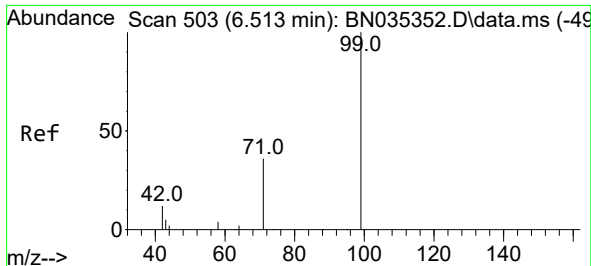
Ion Ratio Lower Upper

112 100

64 49.8 39.8 59.8

63 26.3 21.0 31.6

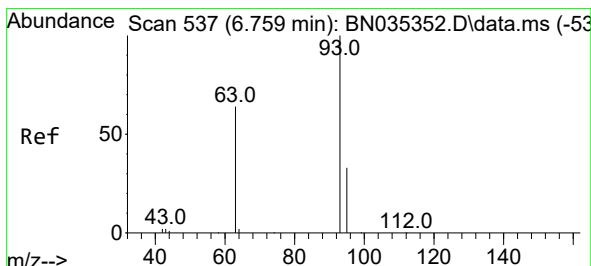
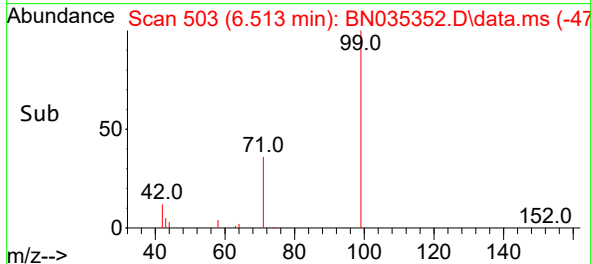
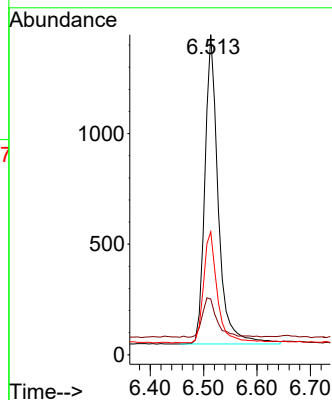
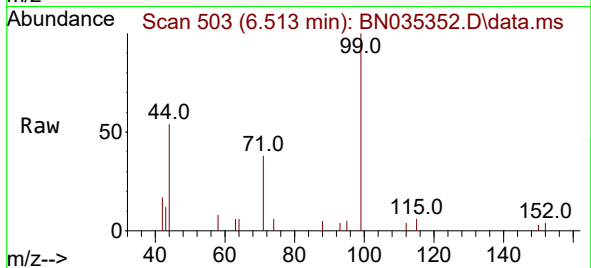




#5  
Phenol-d6  
Concen: 0.375 ng  
RT: 6.513 min Scan# 503  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

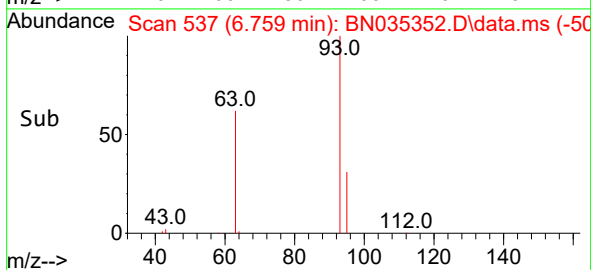
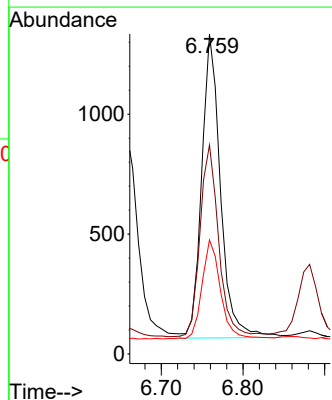
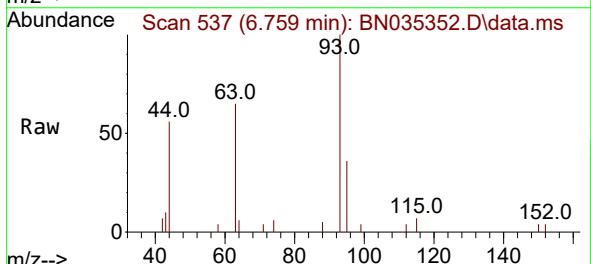
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

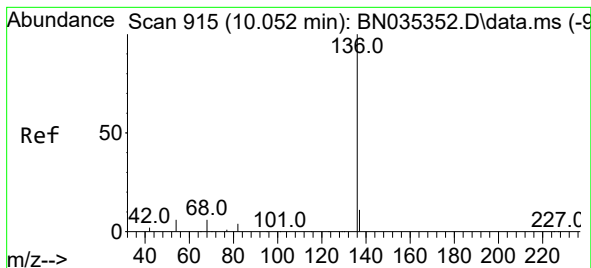
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 99    | Resp: | 2444  |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 14.3  | 11.4  | 17.2  |
| 71       | 36.6  | 29.3  | 43.9  |



#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  |

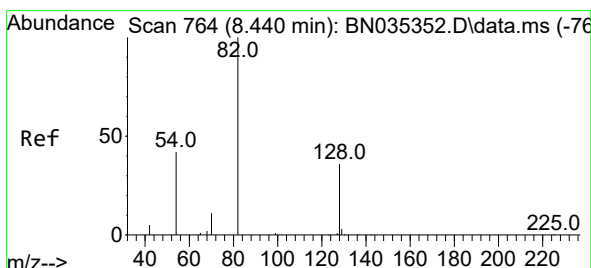
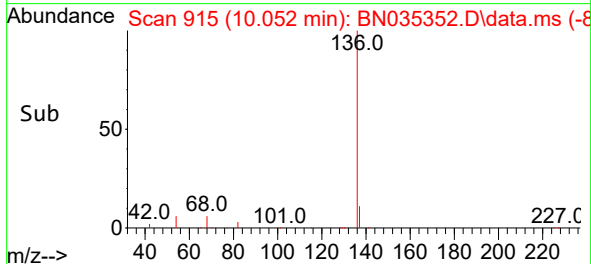
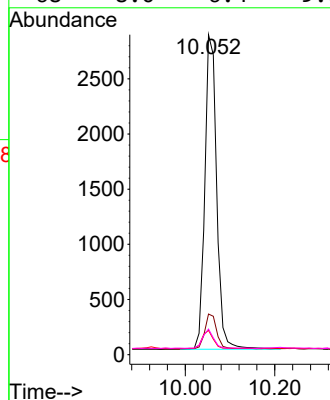
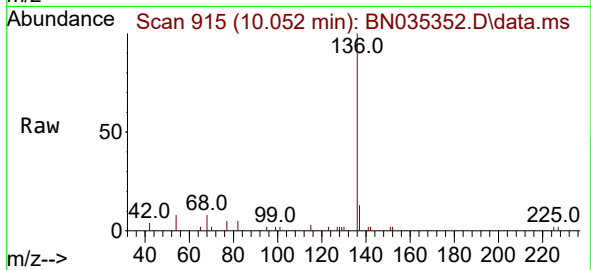




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.052 min Scan# 915  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

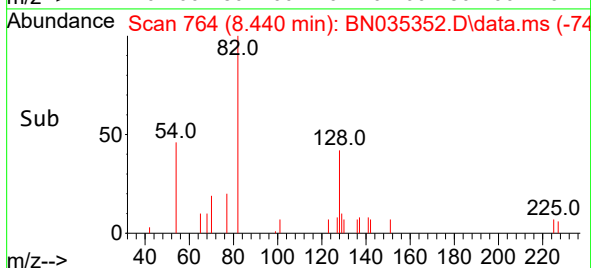
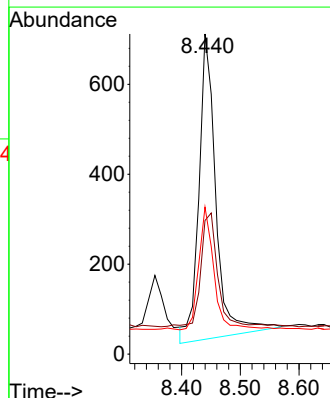
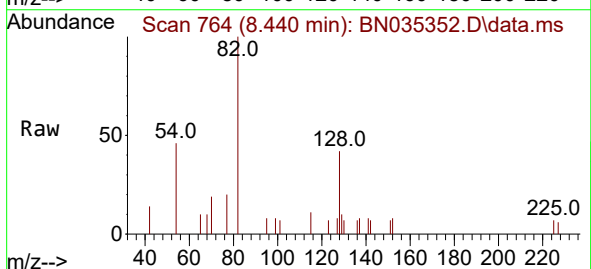
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

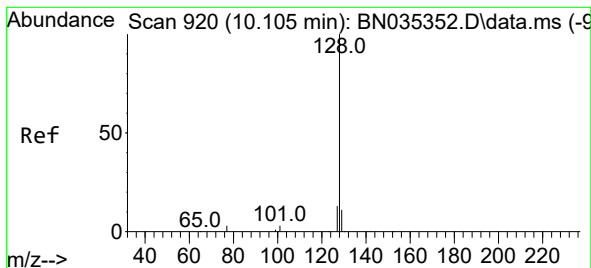
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 5229  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 12.7  | 10.2  | 15.2  |
| 54       | 7.6   | 6.1   | 9.1   |
| 68       | 8.0   | 6.4   | 9.6   |



#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

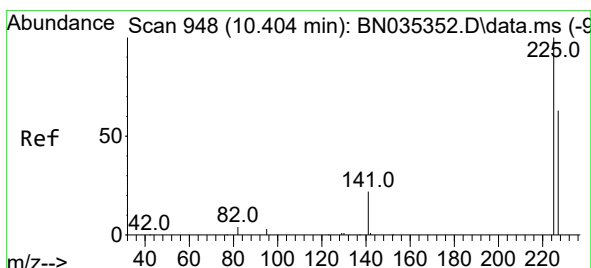
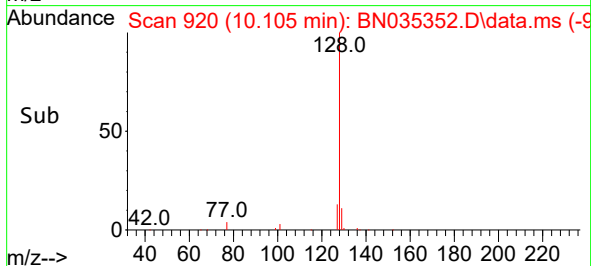
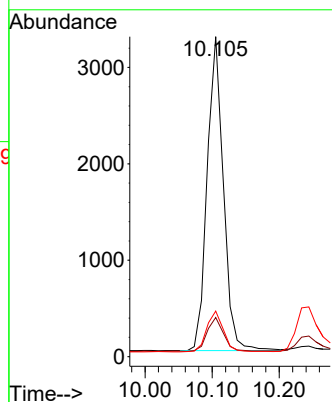
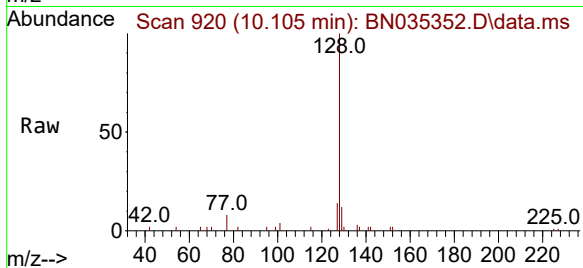
Tgt Ion:128 Resp: 5475

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

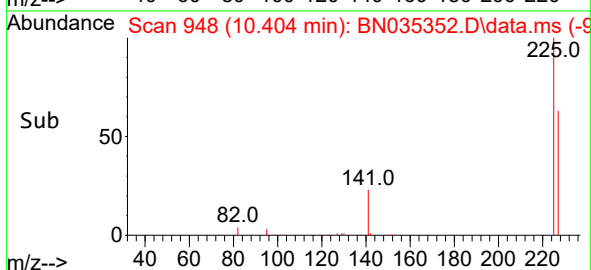
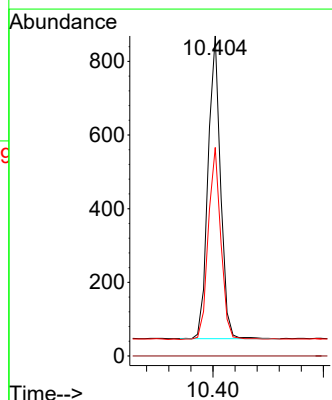
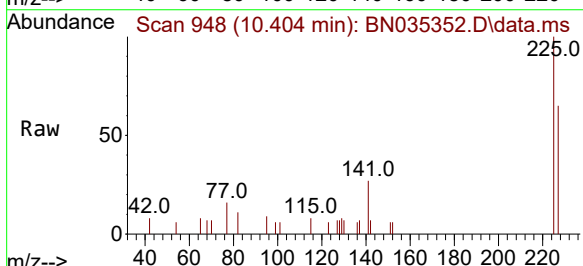
Tgt Ion:225 Resp: 1292

Ion Ratio Lower Upper

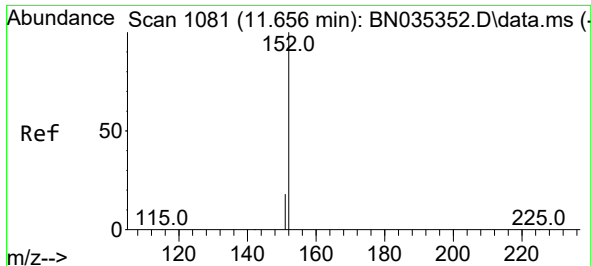
225 100

223 0.0 0.0 0.0

227 64.1 51.3 76.9



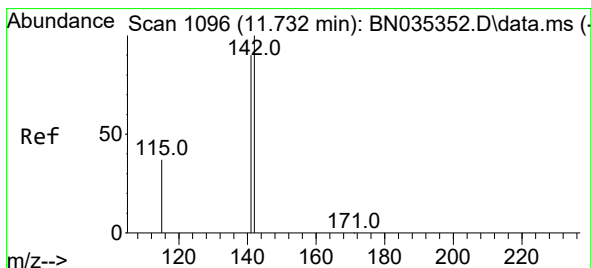
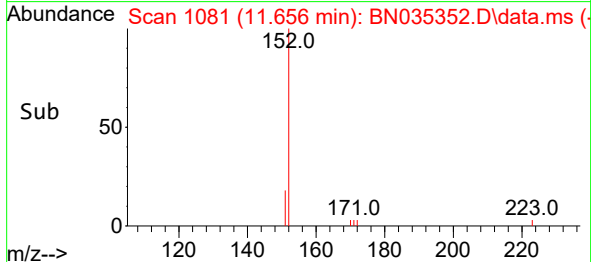
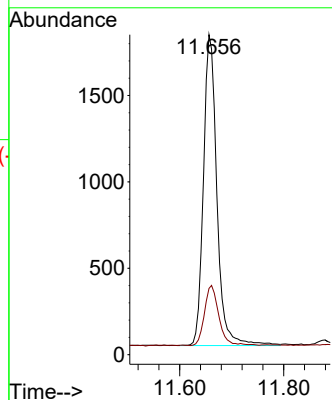
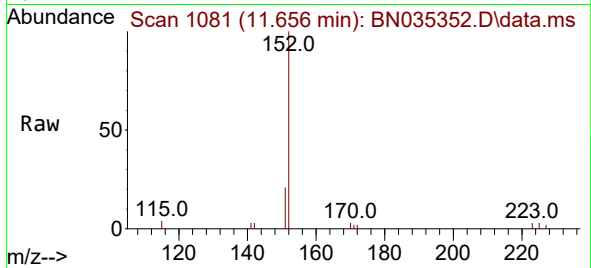




#11  
2-Methylnaphthalene-d10  
Concen: 0.347 ng  
RT: 11.656 min Scan# 1081  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

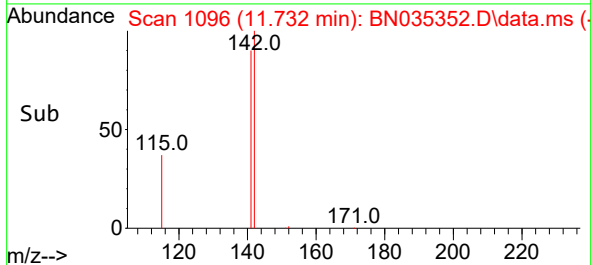
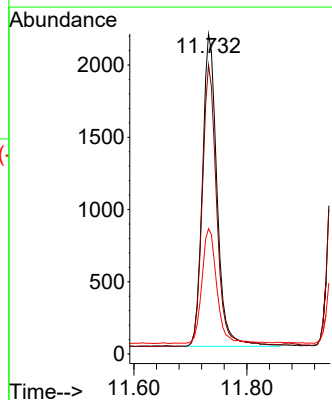
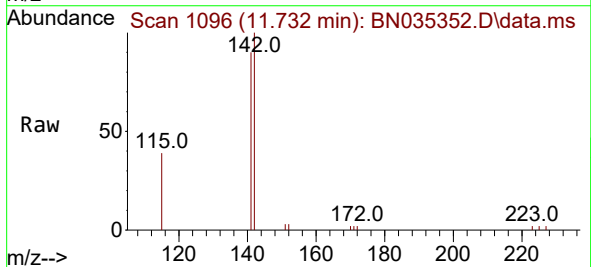
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

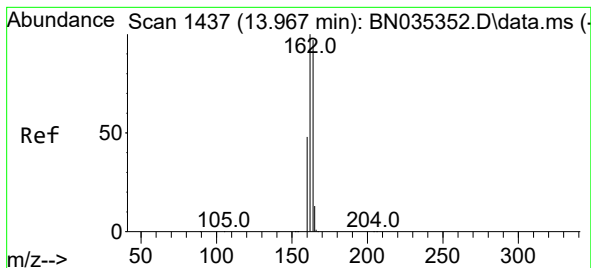
Tgt Ion:152 Resp: 3237  
Ion Ratio Lower Upper  
152 100  
151 20.8 16.6 25.0



#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# 14

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

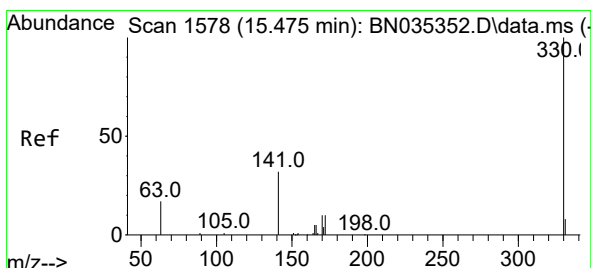
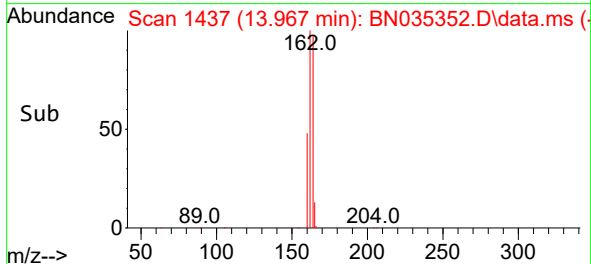
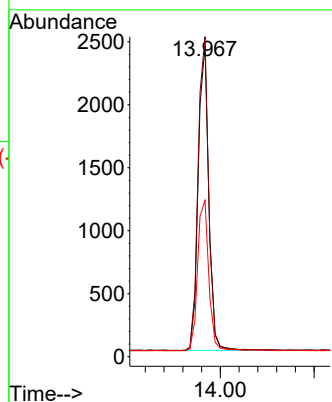
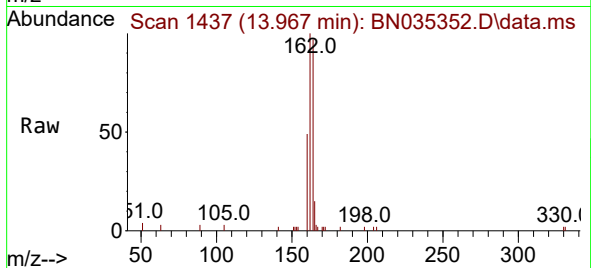
Tgt Ion:164 Resp: 3799

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

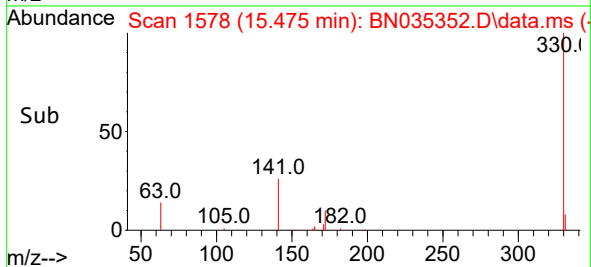
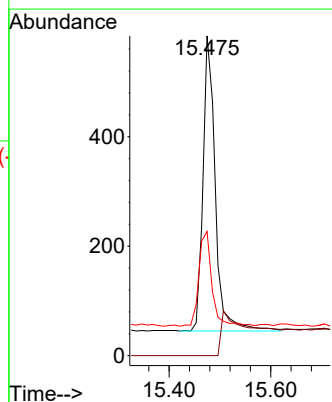
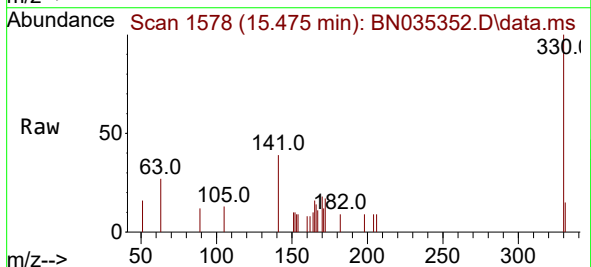
Tgt Ion:330 Resp: 975

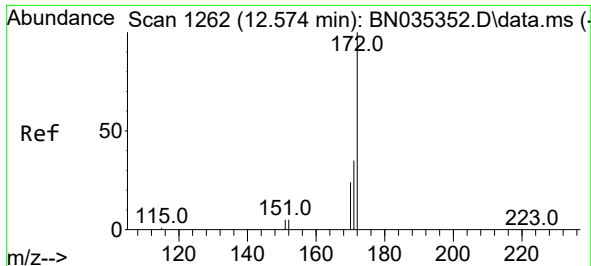
Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

141 33.3 26.6 40.0

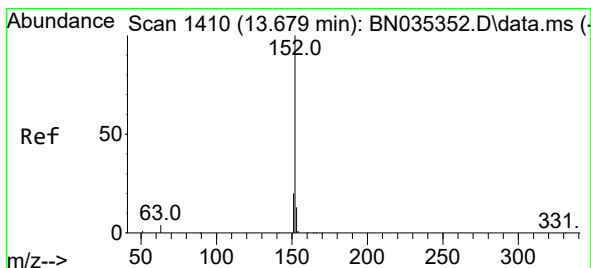
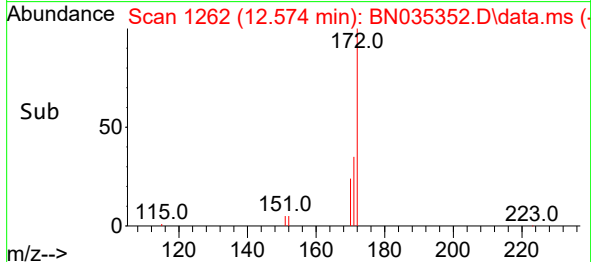
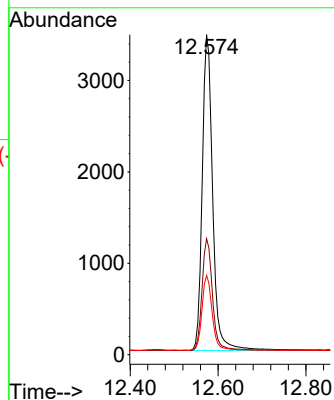
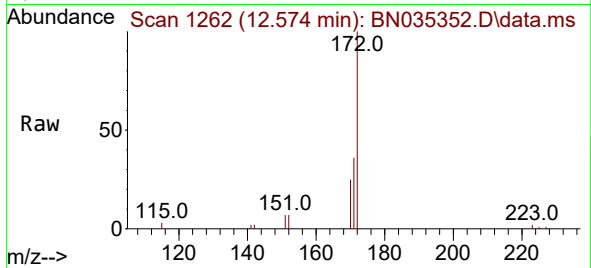




#15  
2-Fluorobiphenyl  
Concen: 0.372 ng  
RT: 12.574 min Scan# 1262  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

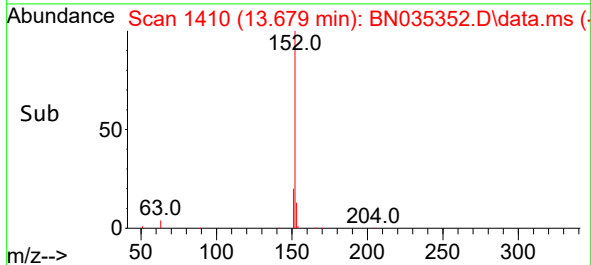
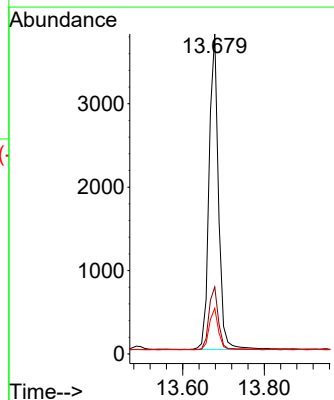
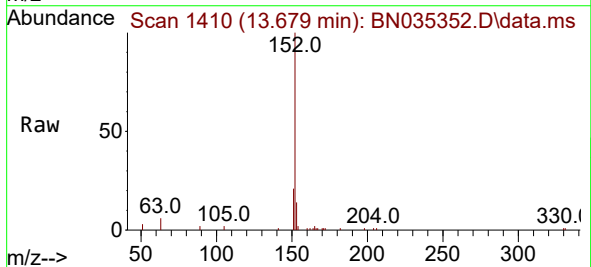
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

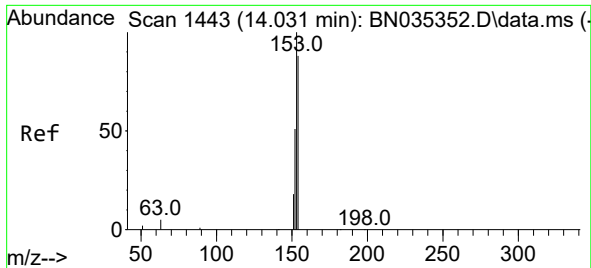
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:172 | Resp: | 5735      |
| Ion Ratio   | Lower | Upper     |
| 172         | 100   |           |
| 171         | 36.2  | 29.0 43.4 |
| 170         | 24.8  | 19.8 29.8 |



#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 |

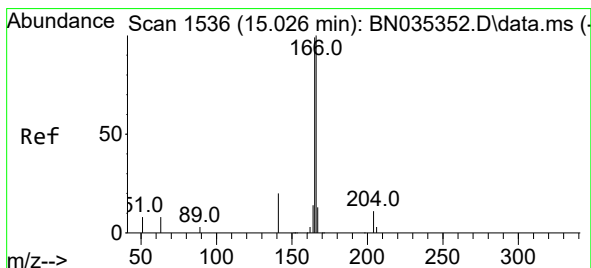
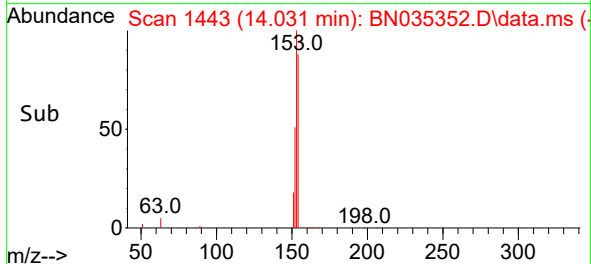
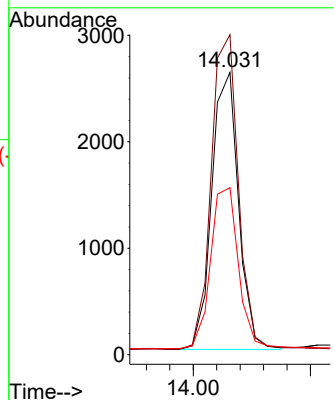
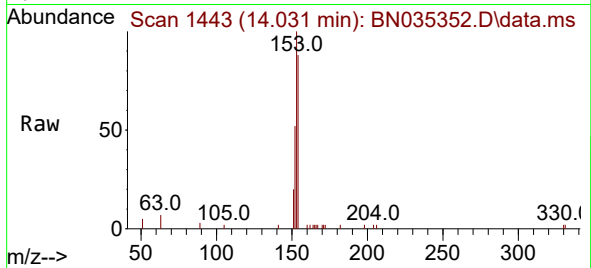




#17  
 Acenaphthene  
 Concen: 0.388 ng  
 RT: 14.031 min Scan# 1443  
 Delta R.T. 0.000 min  
 Lab File: BN035352.D  
 Acq: 27 Nov 2024 16:46

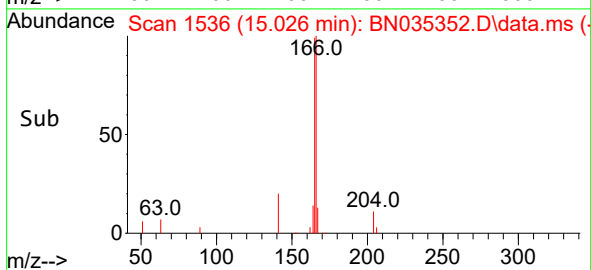
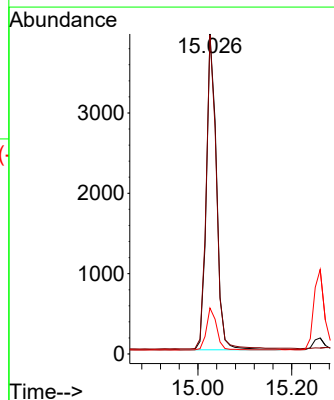
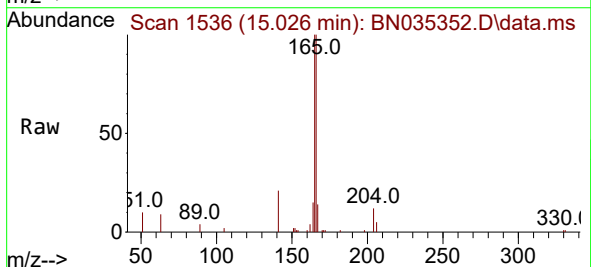
Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICCC0.4

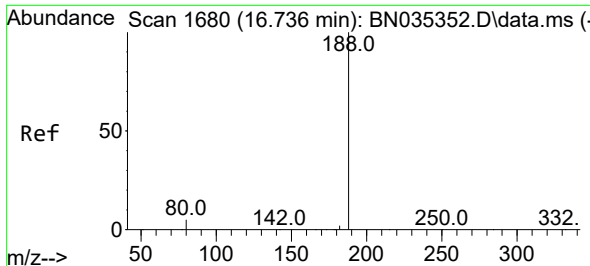
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 154   | Resp: | 4125  |
| Ion Ratio | Lower | Upper |       |
| 154       | 100   |       |       |
| 153       | 115.8 | 92.6  | 139.0 |
| 152       | 61.3  | 49.0  | 73.6  |



#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  |

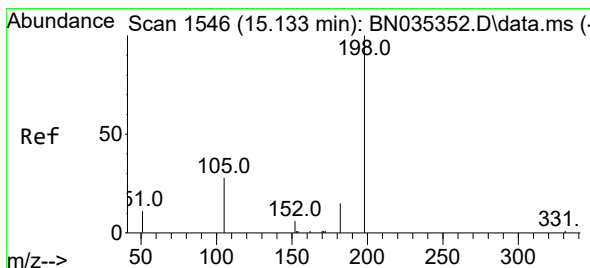
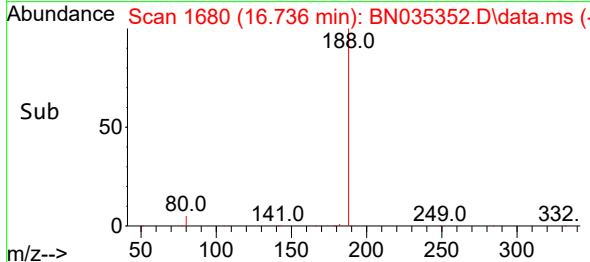
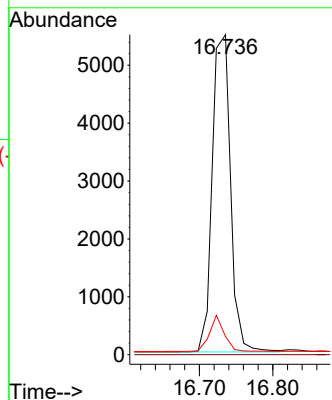
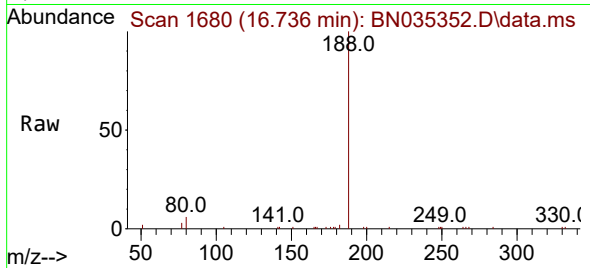




#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 16.736 min Scan# 1680  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

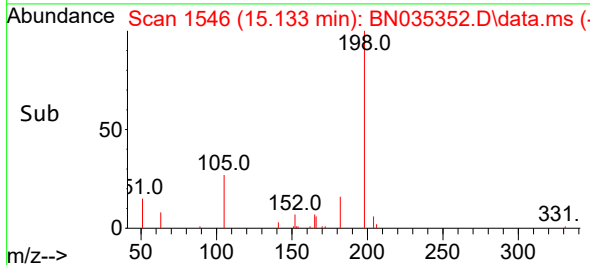
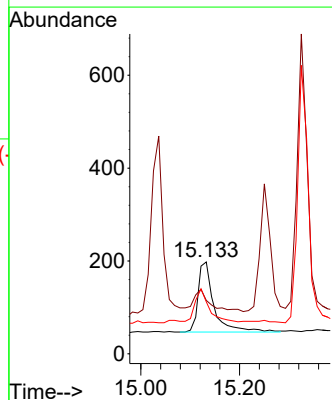
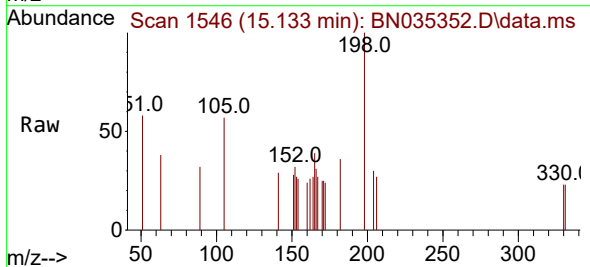
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

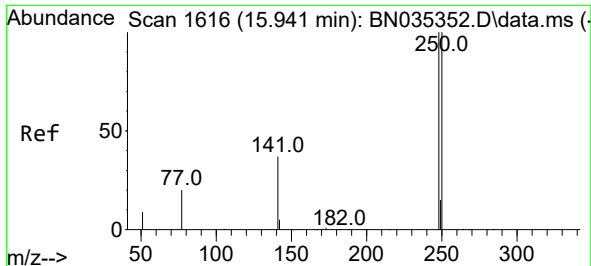
Tgt Ion:188 Resp: 9490  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 5.7 4.6 6.8



#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

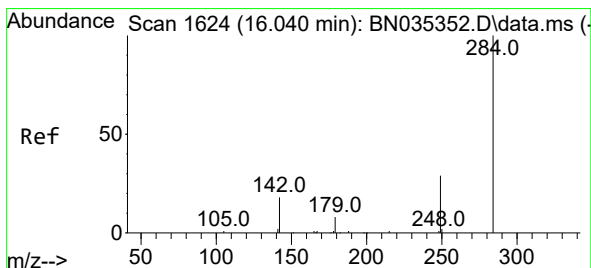
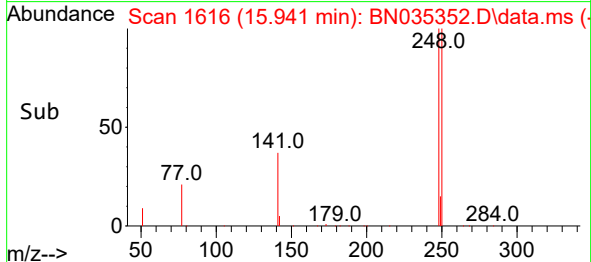
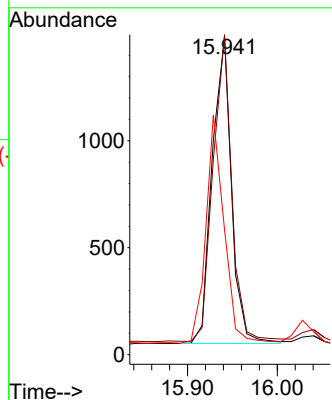
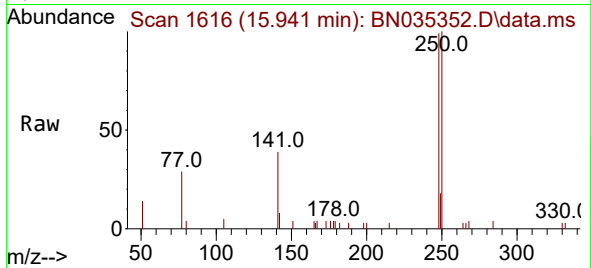




#21  
4-Bromophenyl-phenylether  
Concen: 0.355 ng  
RT: 15.941 min Scan# 1616  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

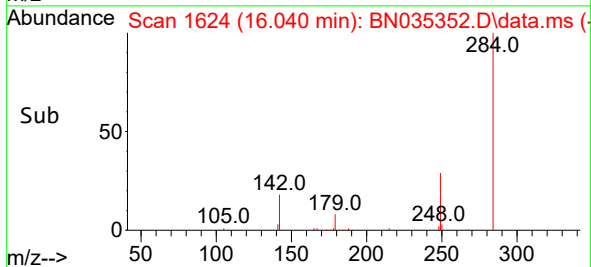
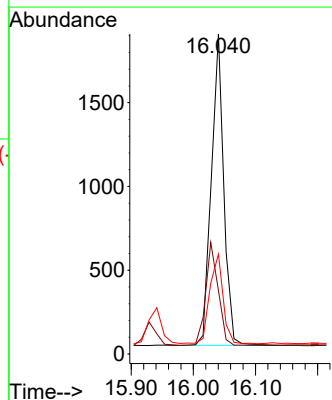
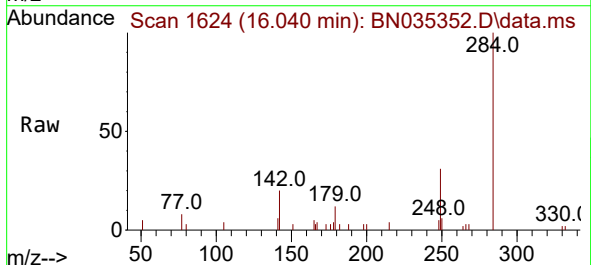
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

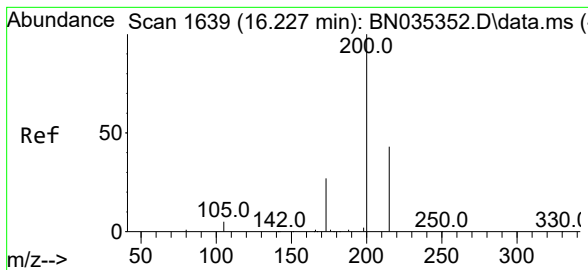
Tgt Ion:248 Resp: 2146  
Ion Ratio Lower Upper  
248 100  
250 100.7 80.6 120.8  
141 39.4 31.5 47.3



#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

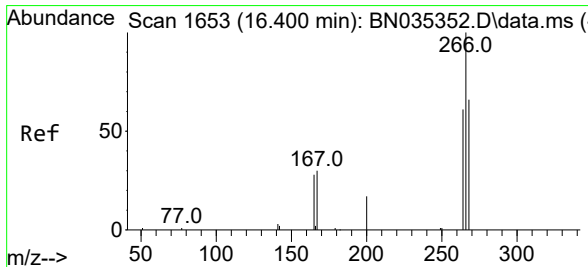
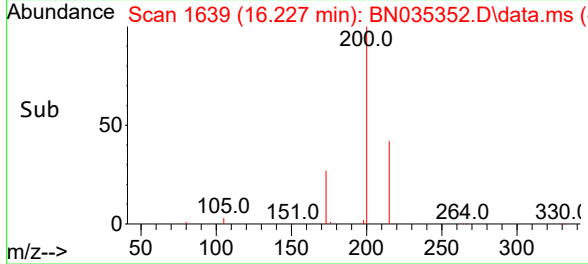
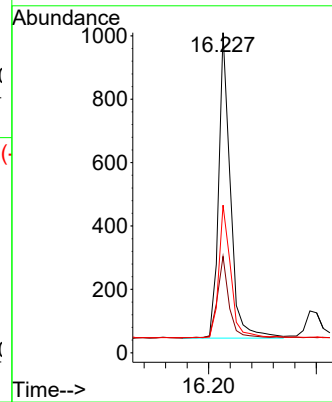
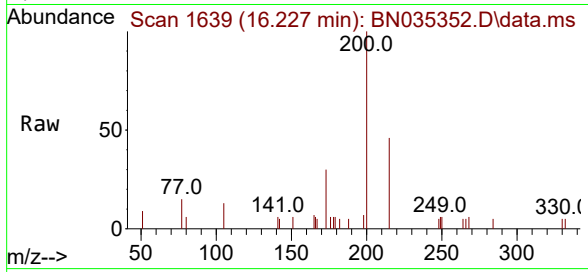




#23  
 Atrazine  
 Concen: 0.269 ng  
 RT: 16.227 min Scan# 1639  
 Delta R.T. 0.000 min  
 Lab File: BN035352.D  
 Acq: 27 Nov 2024 16:46

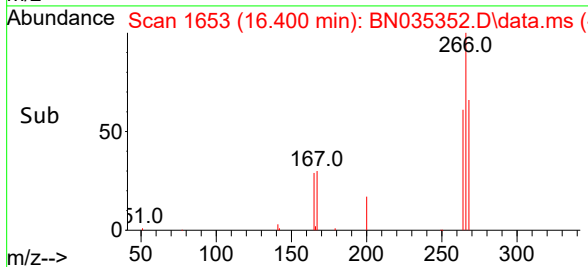
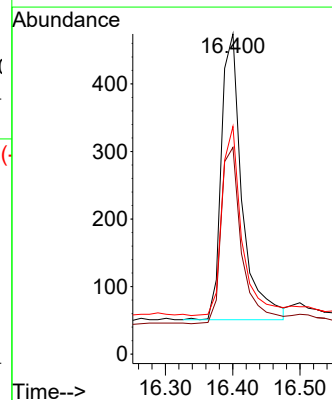
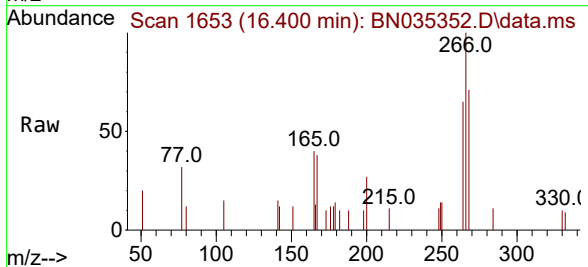
Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC0.4

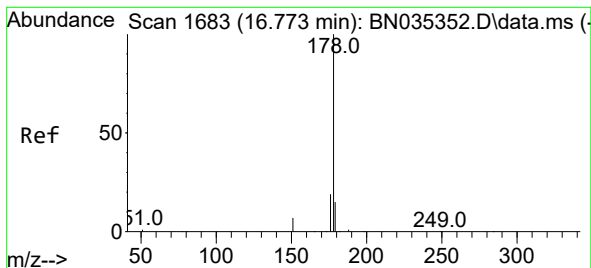
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 200   | Resp: | 1461 |
| Ion Ratio | Lower | Upper |      |
| 200       | 100   |       |      |
| 173       | 30.1  | 24.1  | 36.1 |
| 215       | 46.1  | 36.9  | 55.3 |



#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

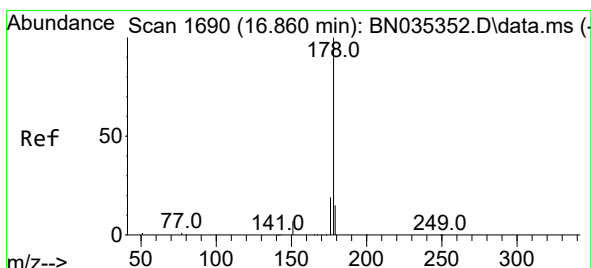
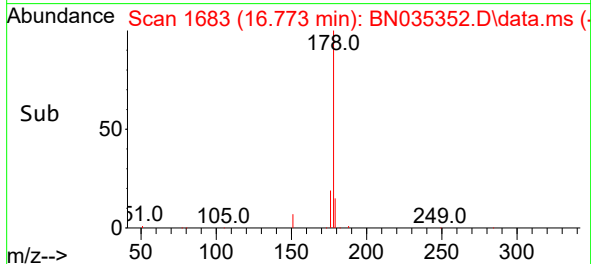
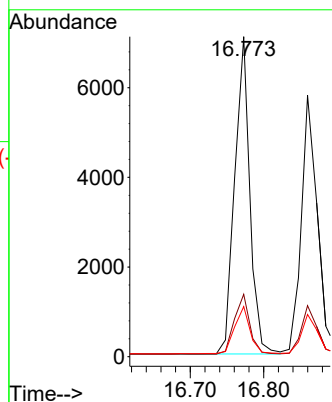
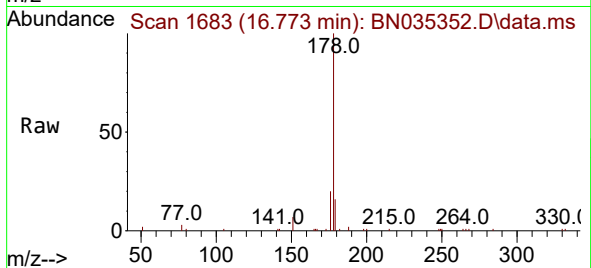
Tgt Ion:178 Resp: 10127

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

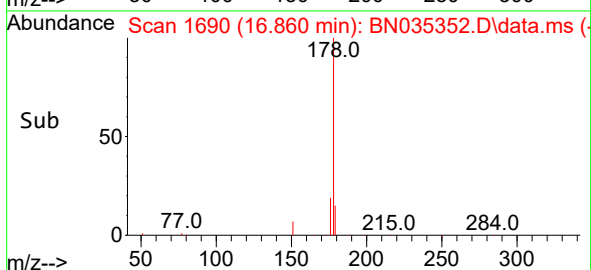
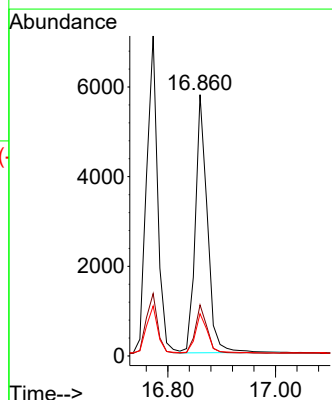
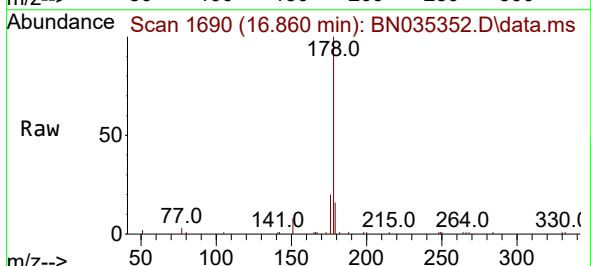
Tgt Ion:178 Resp: 8921

Ion Ratio Lower Upper

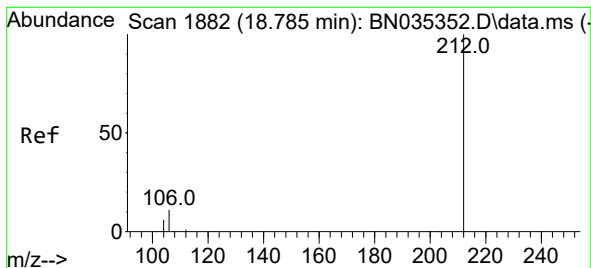
178 100

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

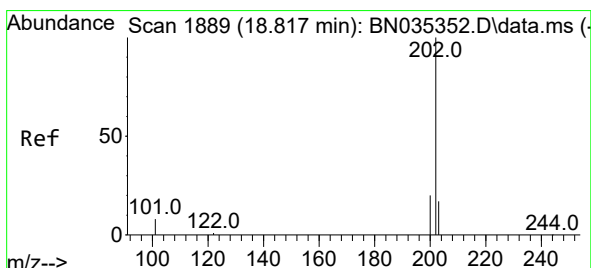
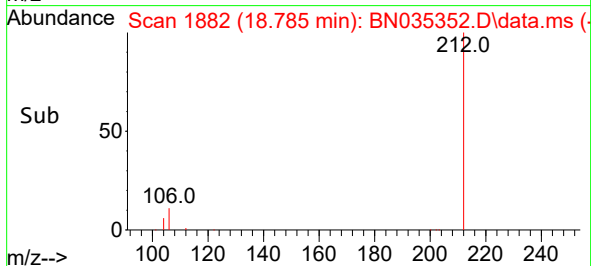
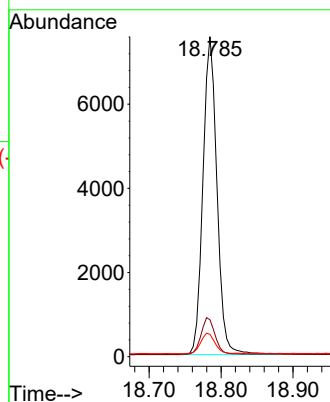
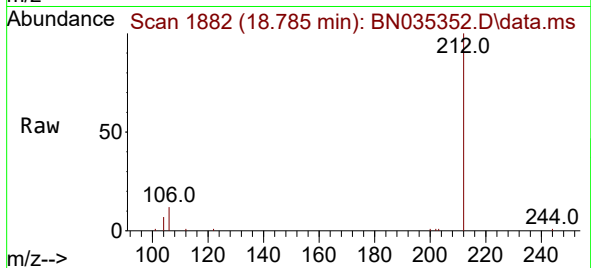
Tgt Ion:212 Resp: 10223

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

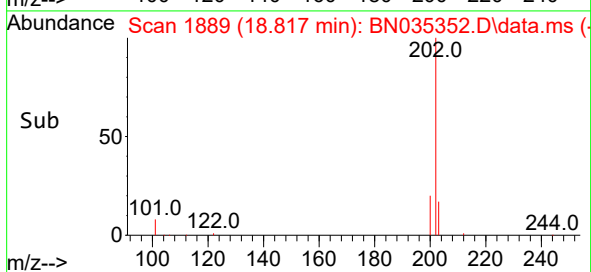
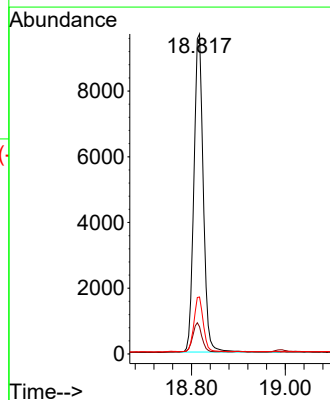
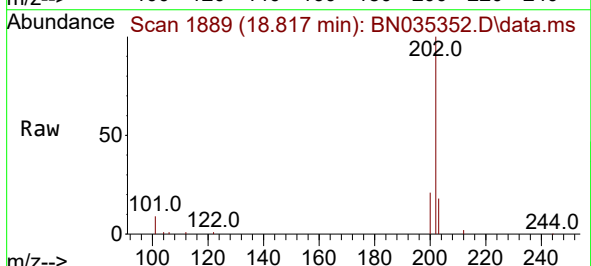
Tgt Ion:202 Resp: 13438

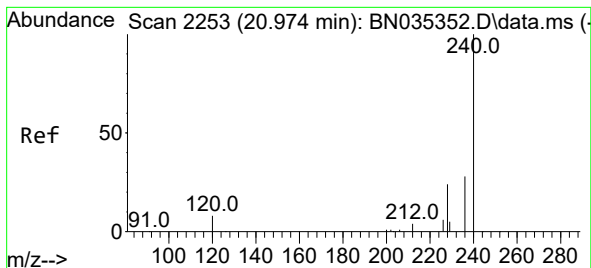
Ion Ratio Lower Upper

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

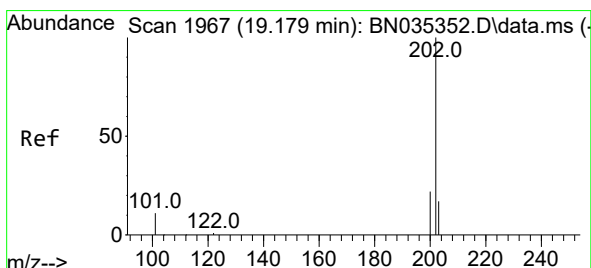
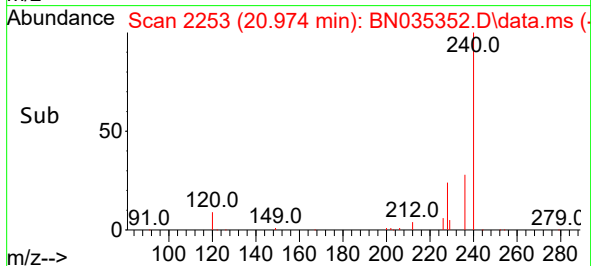
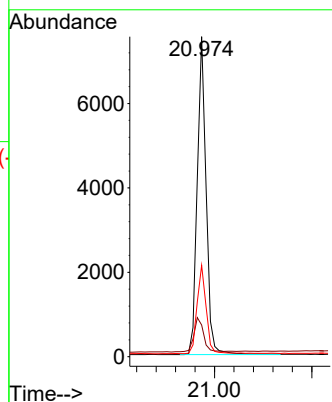
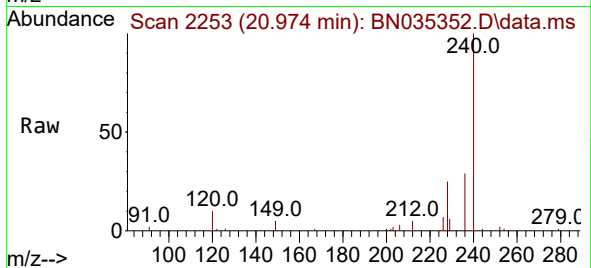
Tgt Ion:240 Resp: 9527

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

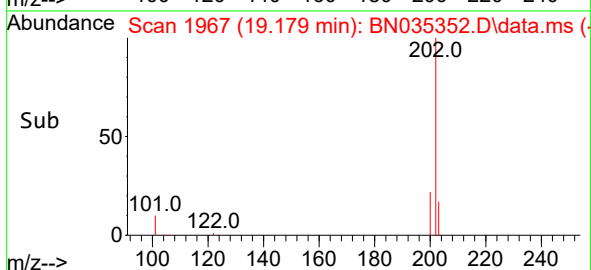
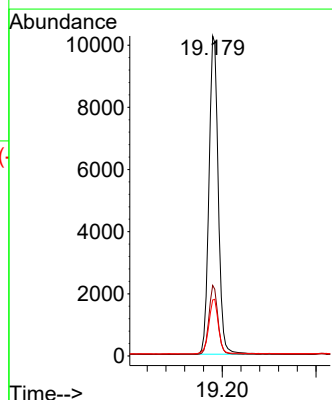
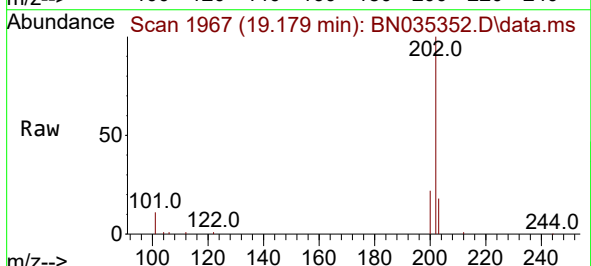
Tgt Ion:202 Resp: 14053

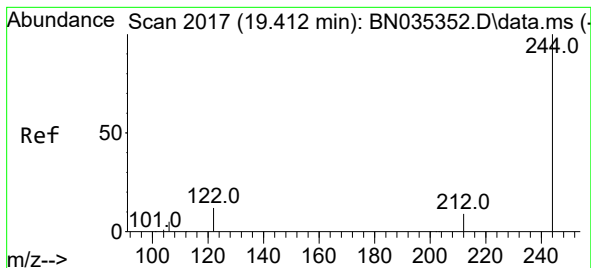
Ion Ratio Lower Upper

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

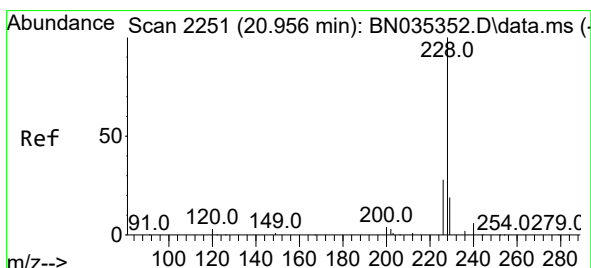
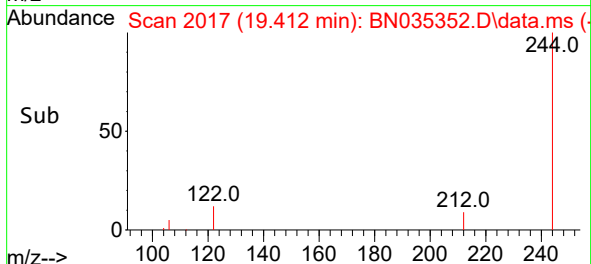
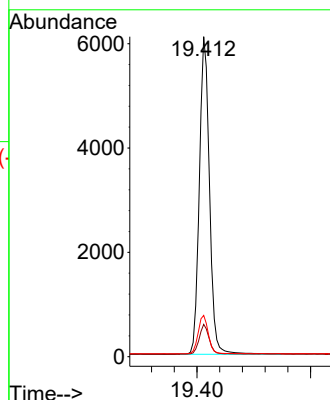
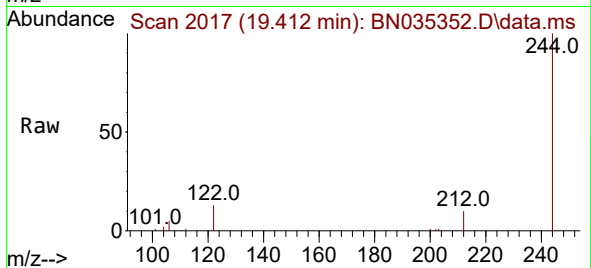
Tgt Ion:244 Resp: 7533

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

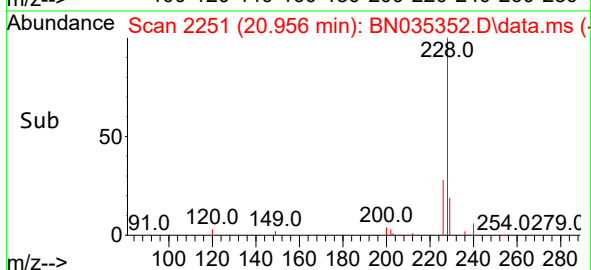
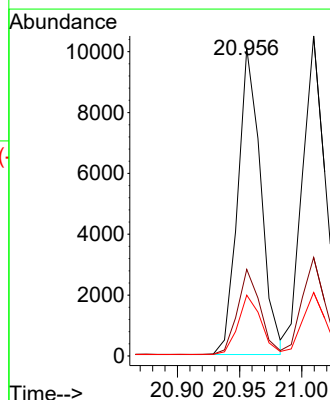
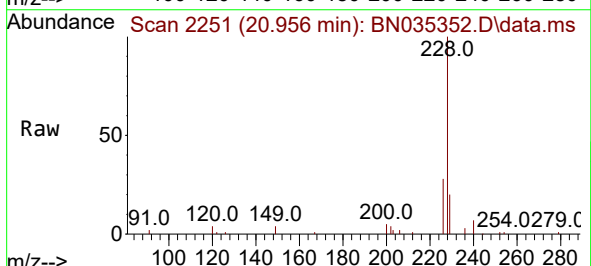
Tgt Ion:228 Resp: 12908

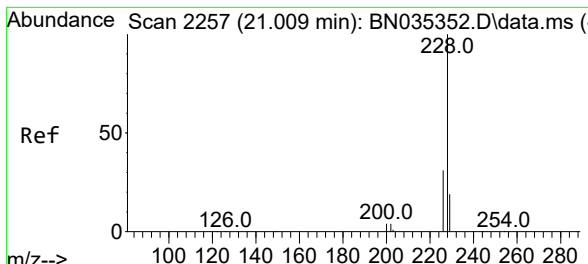
Ion Ratio Lower Upper

228 100

226 28.1 22.5 33.7

229 19.8 15.8 23.8

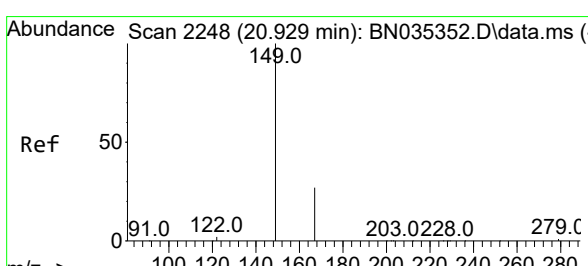
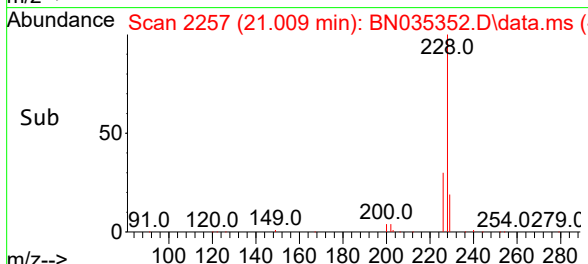
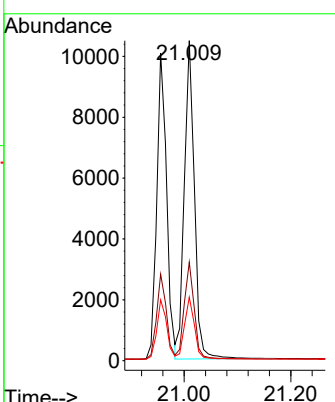
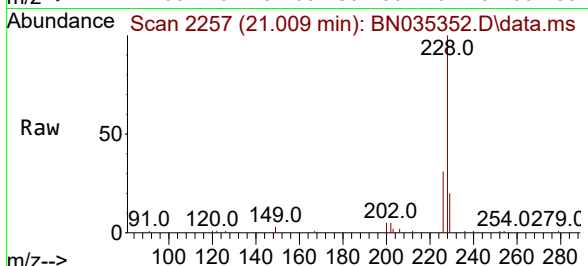




#33  
 Chrysene  
 Concen: 0.418 ng  
 RT: 21.009 min Scan# 21  
 Delta R.T. 0.000 min  
 Lab File: BN035352.D  
 Acq: 27 Nov 2024 16:46

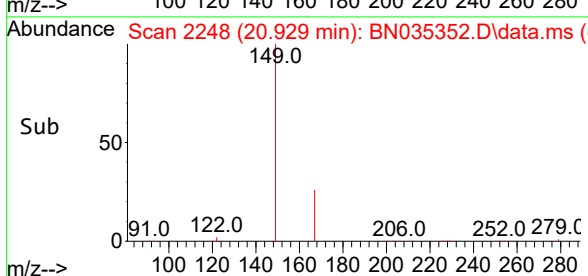
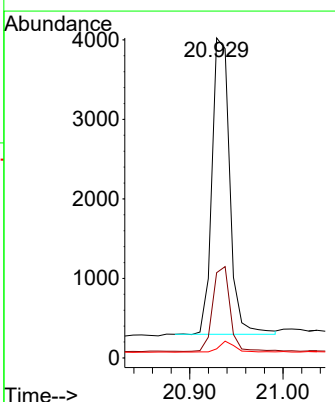
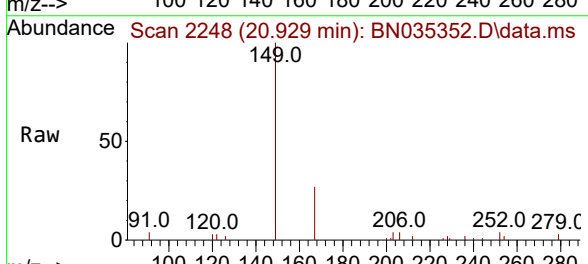
Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICCC0.4

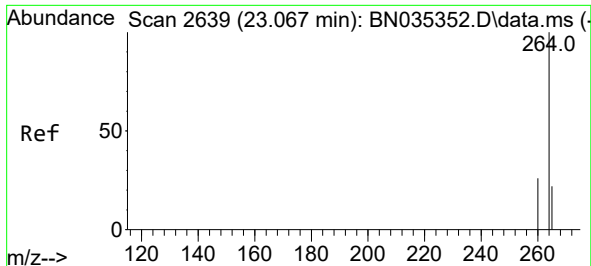
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 13729 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 30.8  | 24.6  | 37.0  |
| 229       | 19.9  | 15.9  | 23.9  |



#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  |

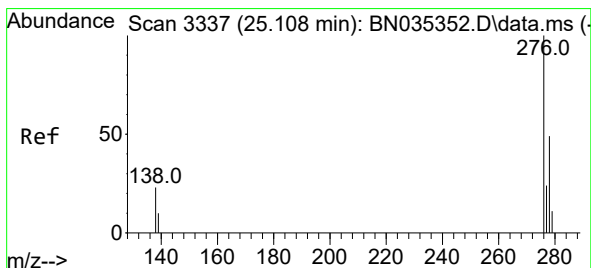
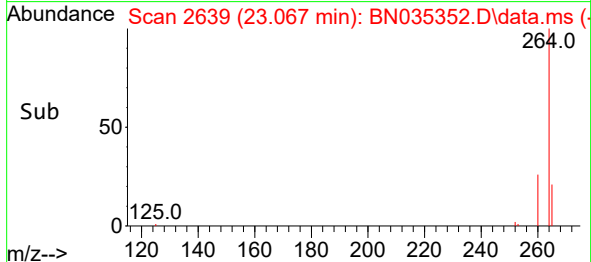
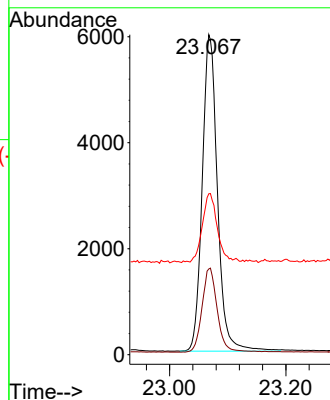
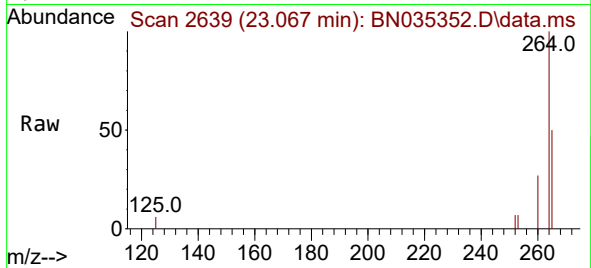




#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.067 min Scan# 2639  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

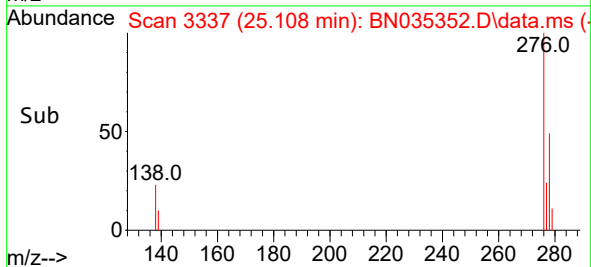
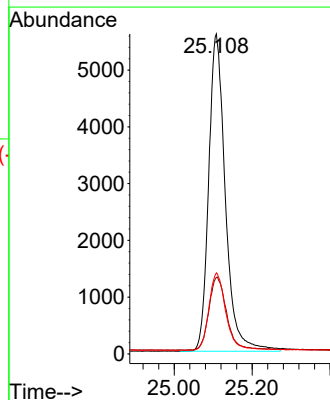
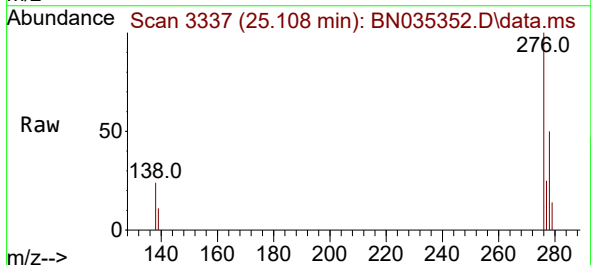
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

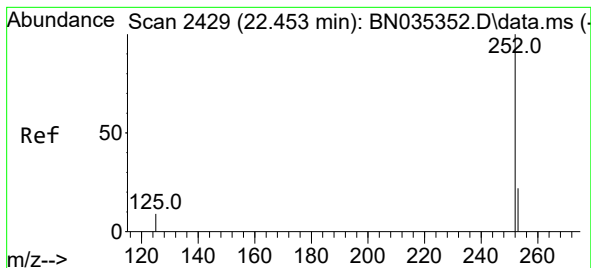
Tgt Ion:264 Resp: 10842  
Ion Ratio Lower Upper  
264 100  
260 26.8 21.4 32.2  
265 50.3 40.2 60.4



#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

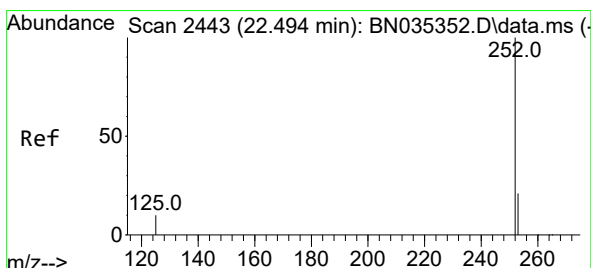
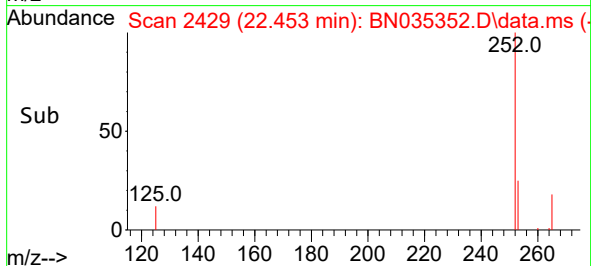
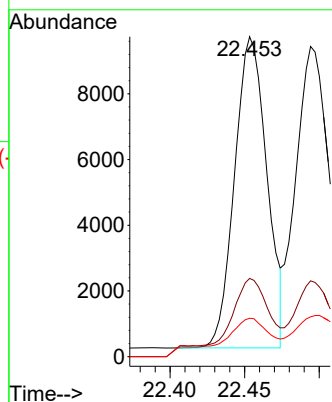
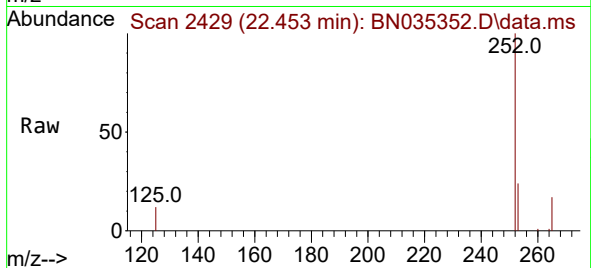
Tgt Ion:252 Resp: 14235

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

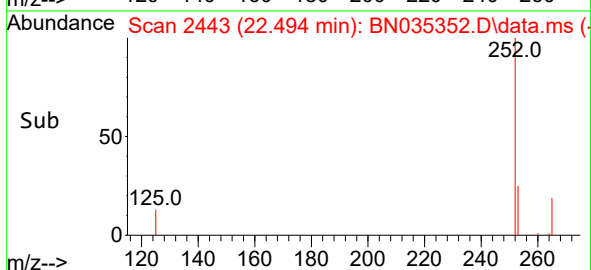
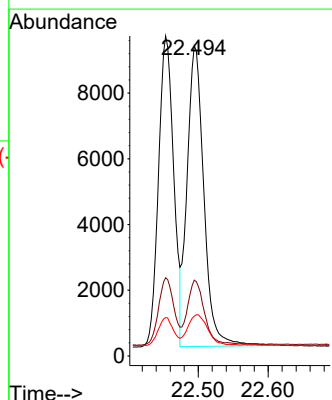
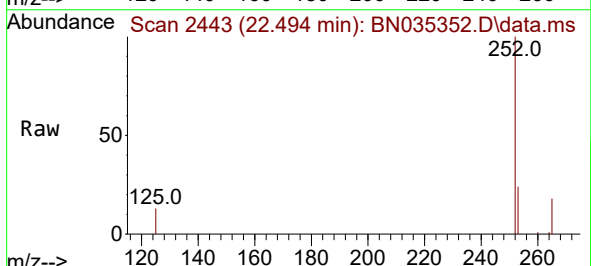
Tgt Ion:252 Resp: 15199

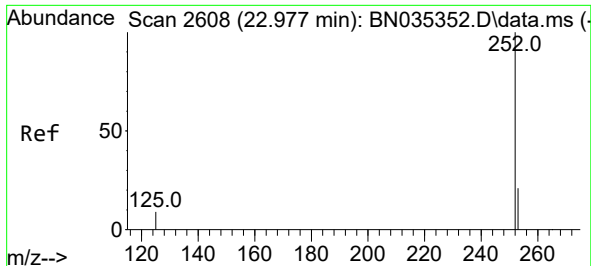
Ion Ratio Lower Upper

252 100

253 24.4 19.5 29.3

125 12.8 10.2 15.4

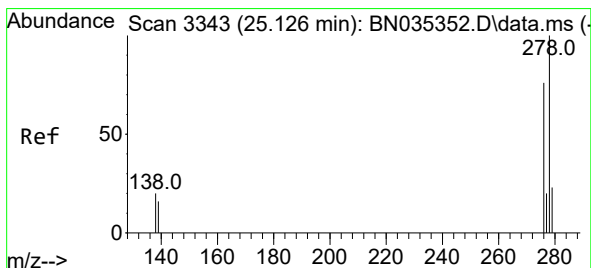
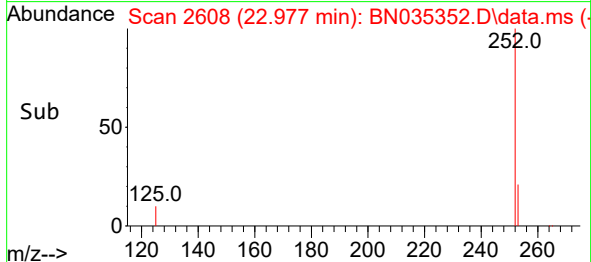
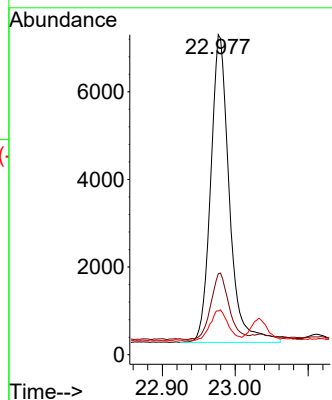
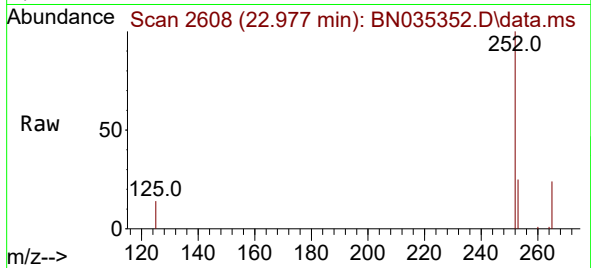




#39  
Benzo(a)pyrene  
Concen: 0.387 ng  
RT: 22.977 min Scan# 2608  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

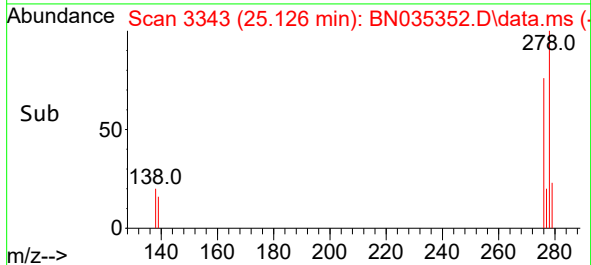
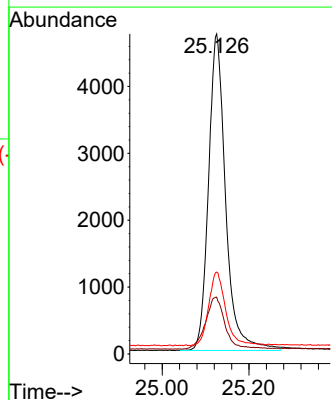
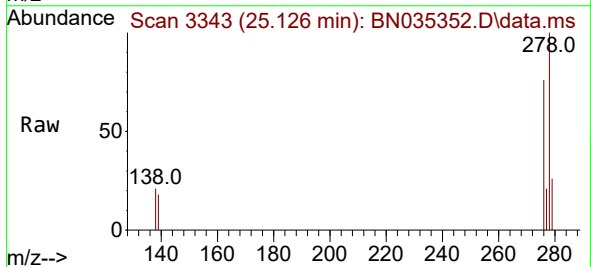
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

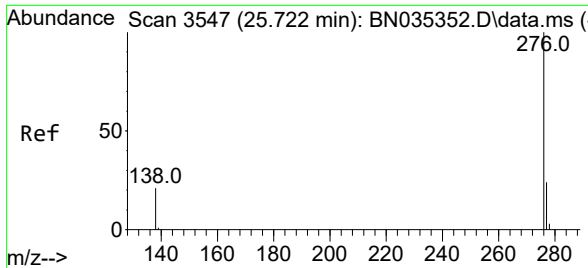
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:252 | Resp: | 12425     |
| Ion Ratio   | Lower | Upper     |
| 252         | 100   |           |
| 253         | 25.3  | 20.2 30.4 |
| 125         | 13.6  | 10.9 16.3 |



#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

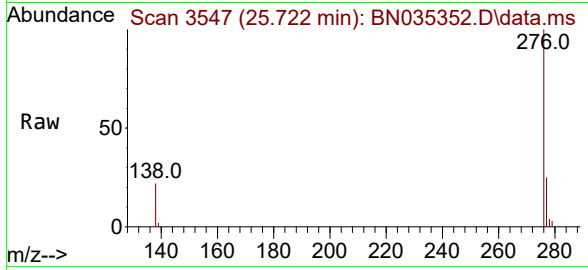
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:278 | Resp: | 12948     |
| Ion Ratio   | Lower | Upper     |
| 278         | 100   |           |
| 139         | 17.8  | 14.2 21.4 |
| 279         | 25.6  | 20.5 30.7 |



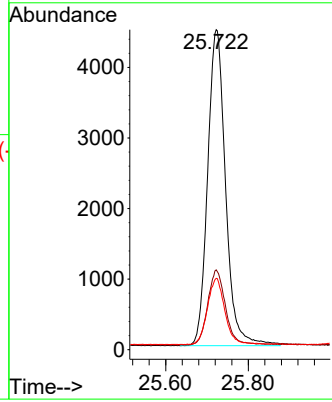
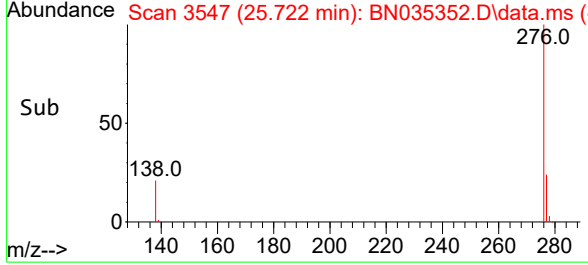


#41  
Benzo(g,h,i)perylene  
Concen: 0.371 ng  
RT: 25.722 min Scan# 31  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

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

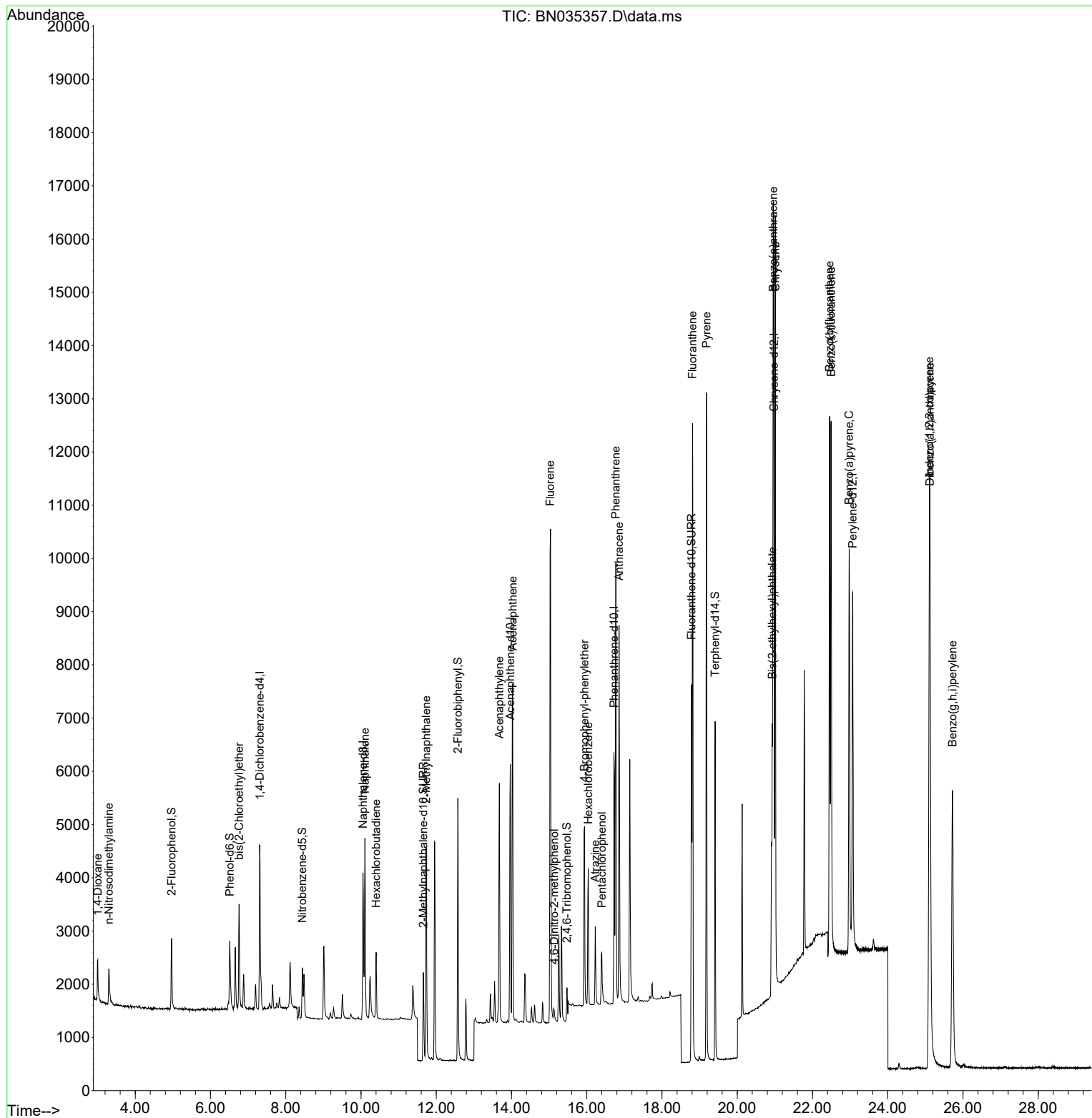
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.308  | 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              |        |      |          |       |       |          |
| 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       |

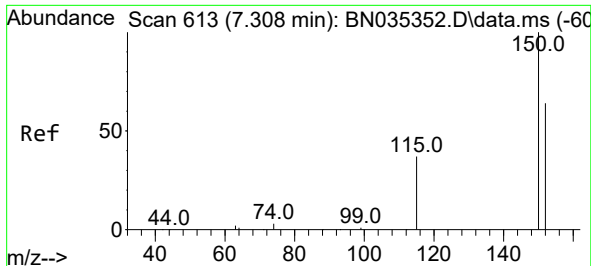
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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

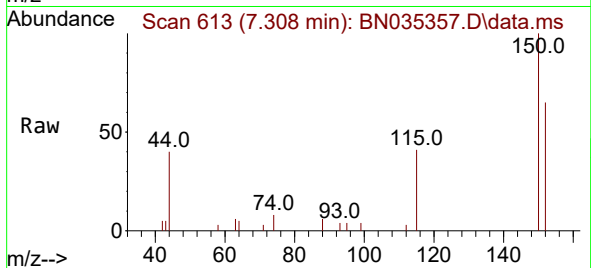
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Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Nov 27 23:03:24 2024  
Response via : Initial Calibration



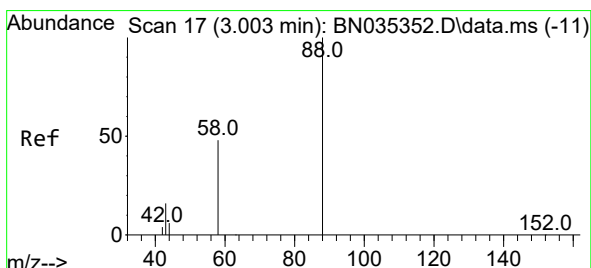
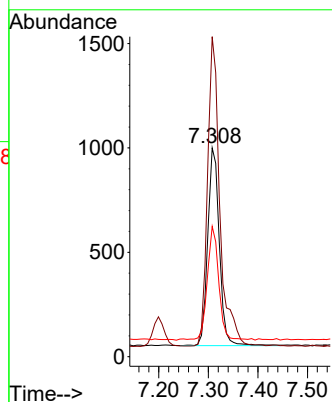
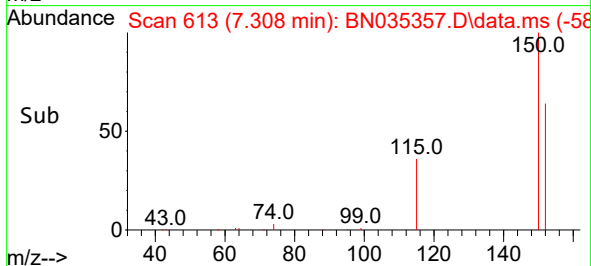


#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.308 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

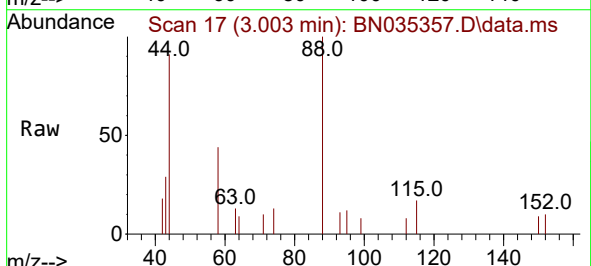
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ClientSampleId :  
ICVBN112724



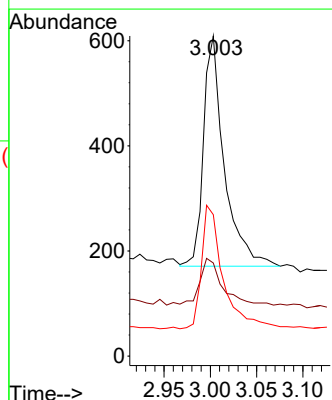
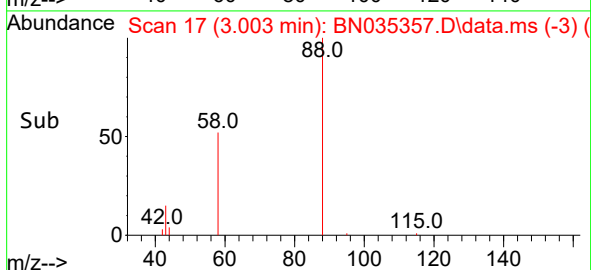
Tgt Ion:152 Resp: 1540  
Ion Ratio Lower Upper  
152 100  
150 153.3 124.0 186.0  
115 62.4 49.6 74.4

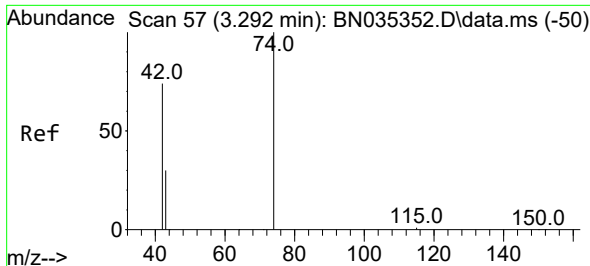


#2  
1,4-Dioxane  
Concen: 0.465 ng  
RT: 3.003 min Scan# 17  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21



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

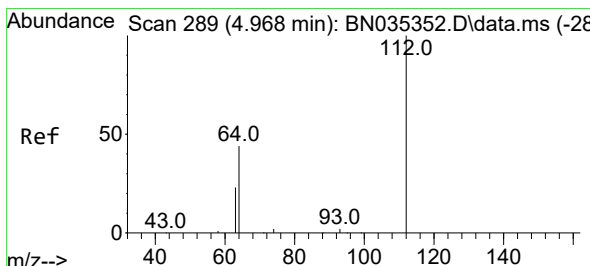
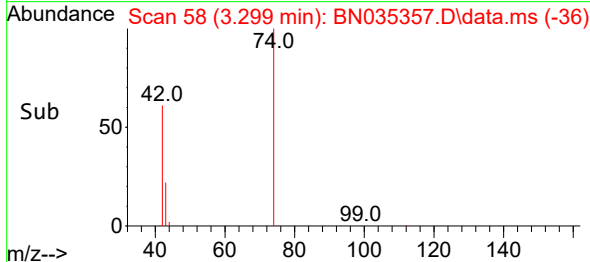
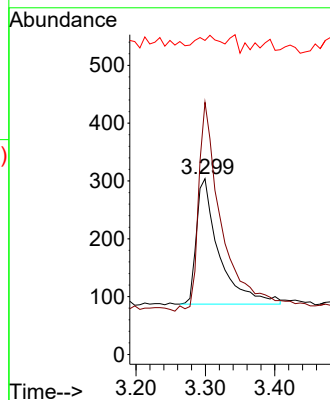
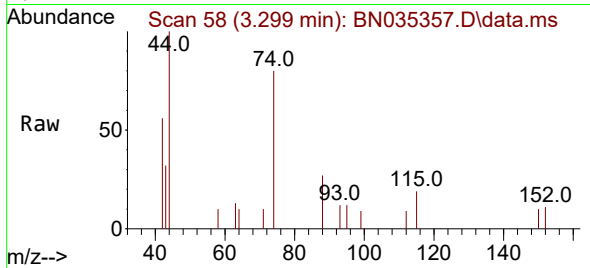




#3  
 n-Nitrosodimethylamine  
 Concen: 0.404 ng  
 RT: 3.299 min Scan# 51  
 Delta R.T. 0.007 min  
 Lab File: BN035357.D  
 Acq: 27 Nov 2024 20:21

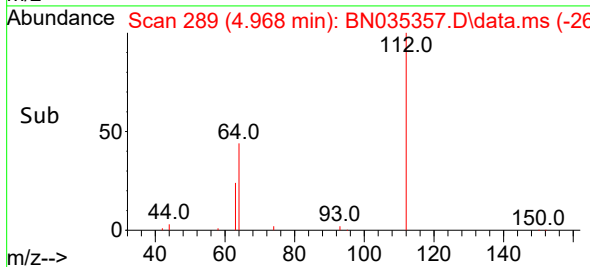
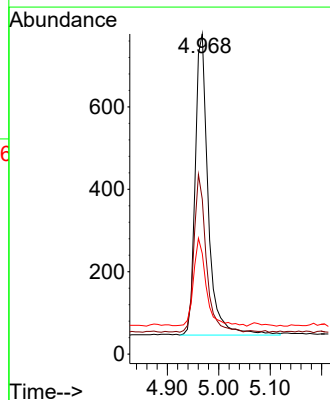
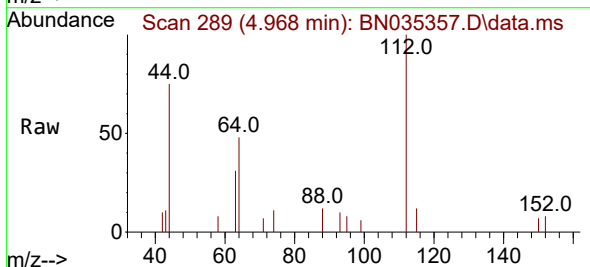
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 ClientSampleId :  
 ICVBN112724

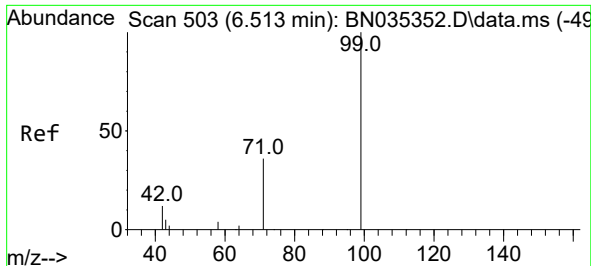
Tgt Ion: 42 Resp: 495  
 Ion Ratio Lower Upper  
 42 100  
 74 172.1 124.9 187.3  
 44 6.3 2.2 3.4#



#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

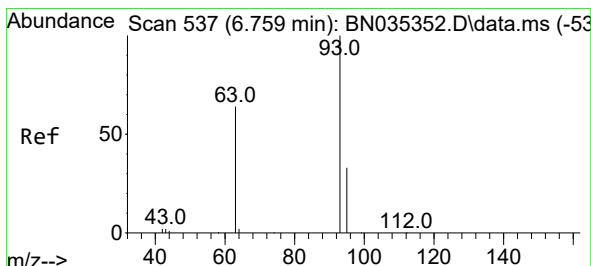
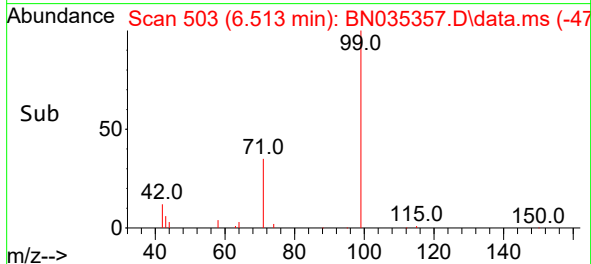
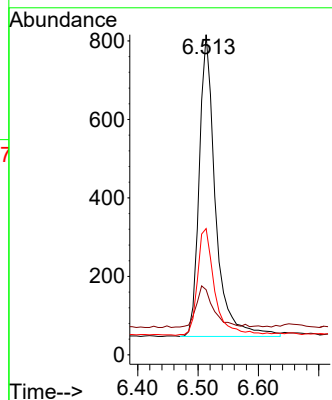
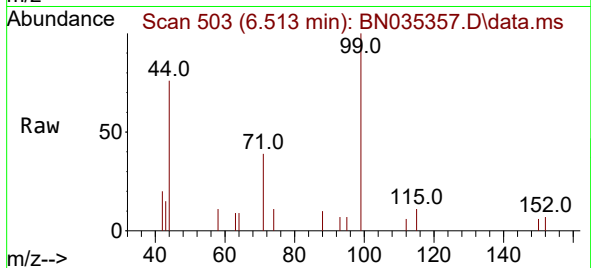




#5  
Phenol-d6  
Concen: 0.310 ng  
RT: 6.513 min Scan# 503  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

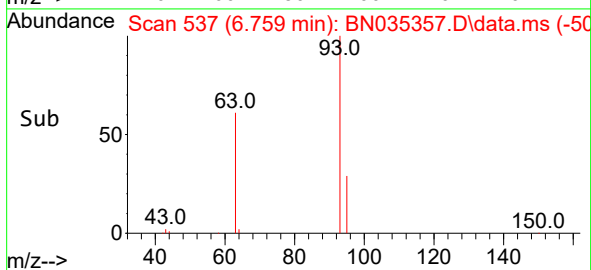
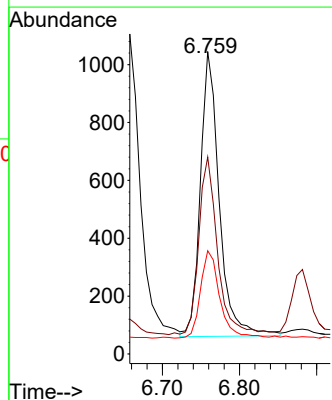
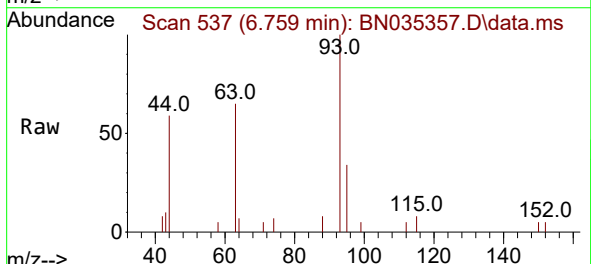
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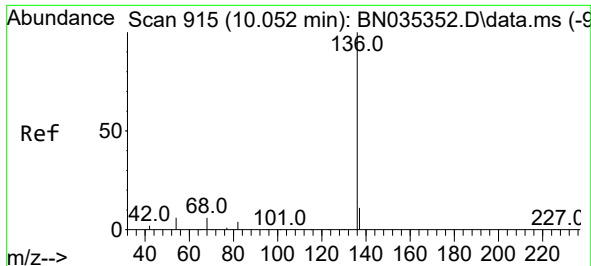
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 99    | Resp: | 1437  |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 13.9  | 11.4  | 17.2  |
| 71       | 37.2  | 29.3  | 43.9  |



#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  |

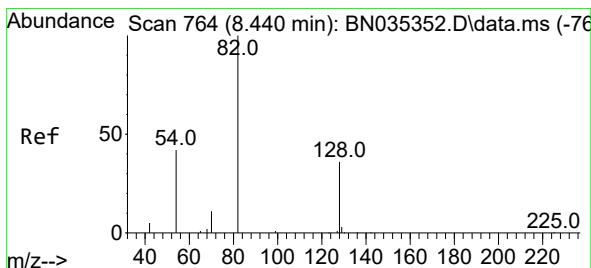
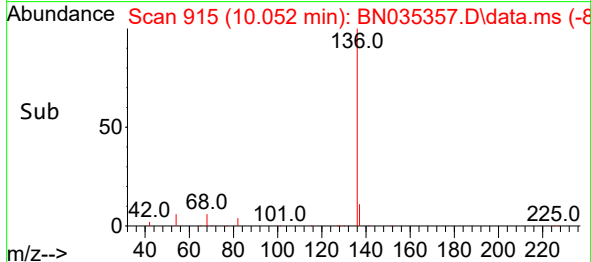
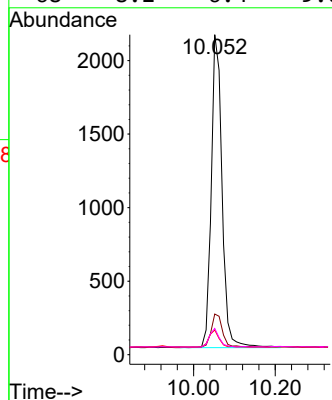
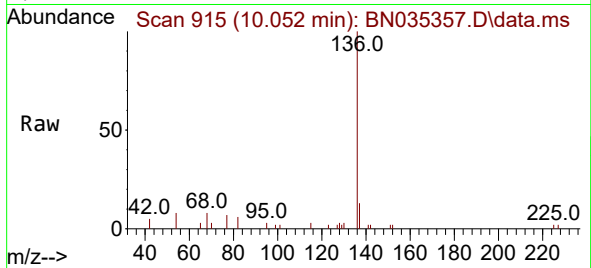




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.052 min Scan# 915  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

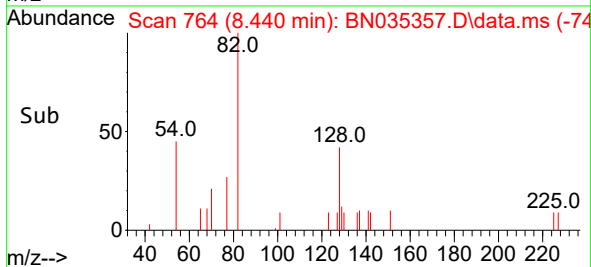
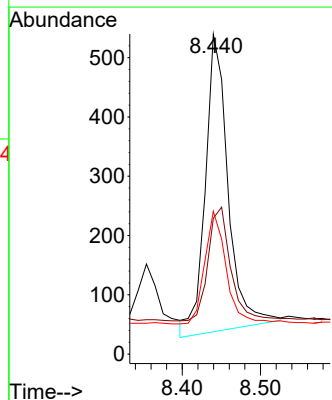
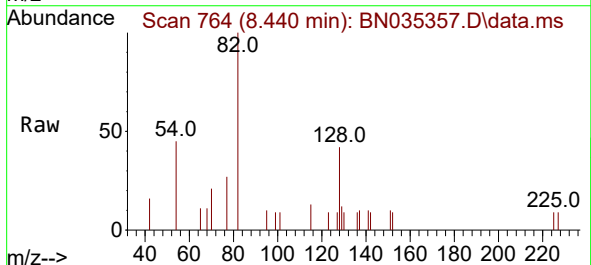
Instrument :  
BNA\_N  
ClientSampleId :  
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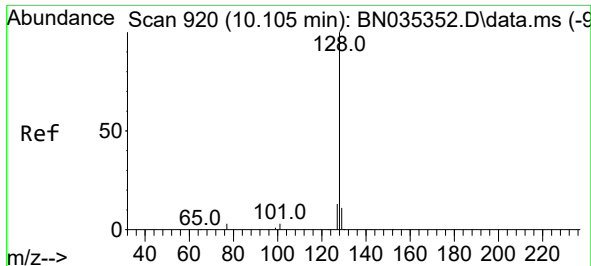
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 3904  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 12.7  | 10.2  | 15.2  |
| 54       | 7.7   | 6.1   | 9.1   |
| 68       | 8.2   | 6.4   | 9.6   |



#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  |

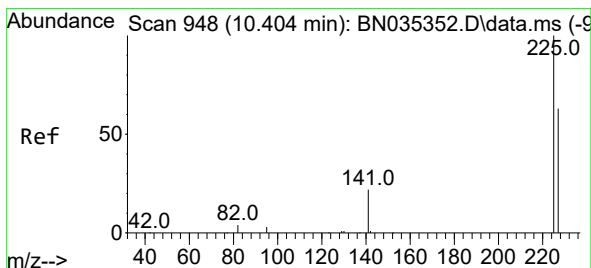
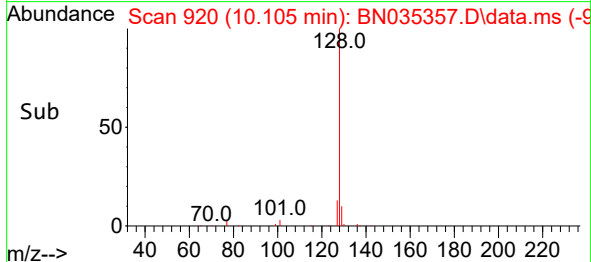
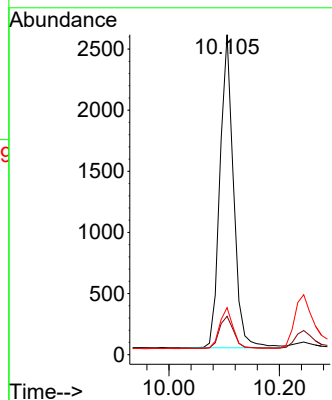
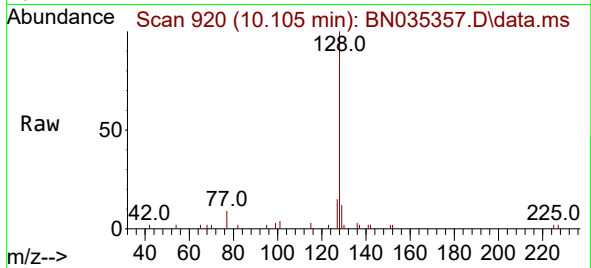




#9  
Naphthalene  
Concen: 0.424 ng  
RT: 10.105 min Scan# 912  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

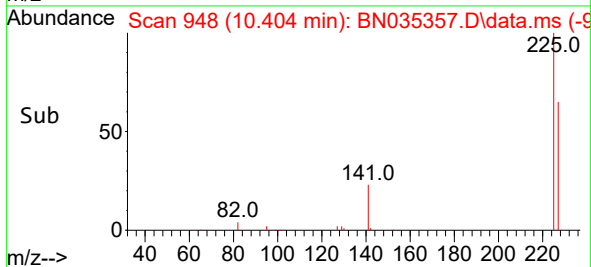
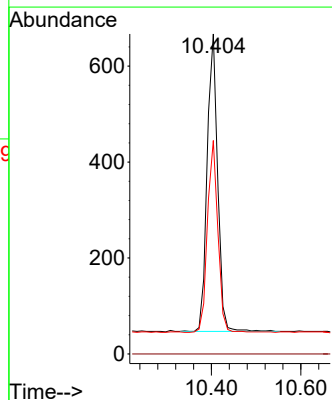
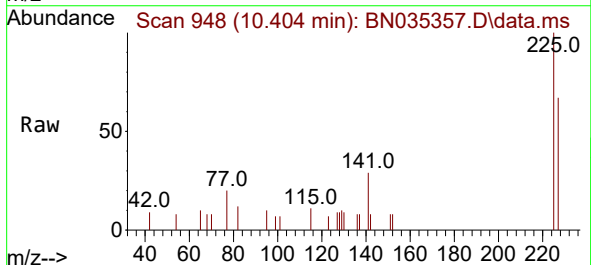
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112724

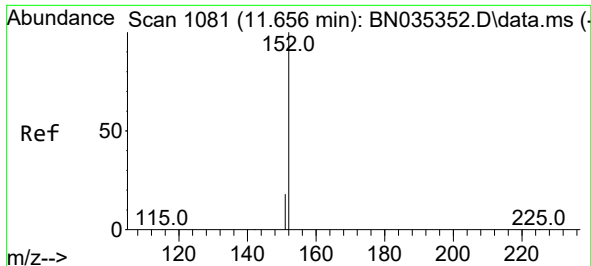
Tgt Ion:128 Resp: 4364  
Ion Ratio Lower Upper  
128 100  
129 12.0 9.8 14.6  
127 14.7 11.4 17.2



#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

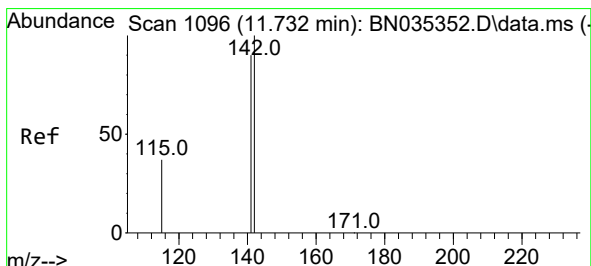
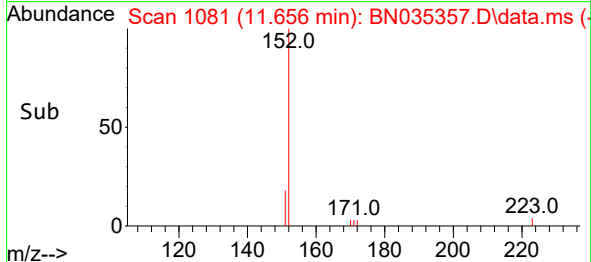
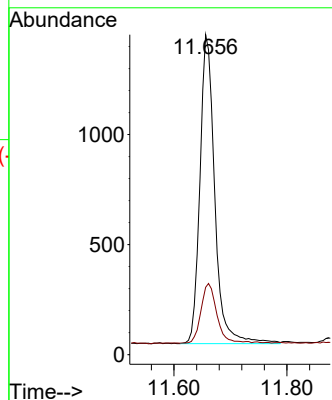
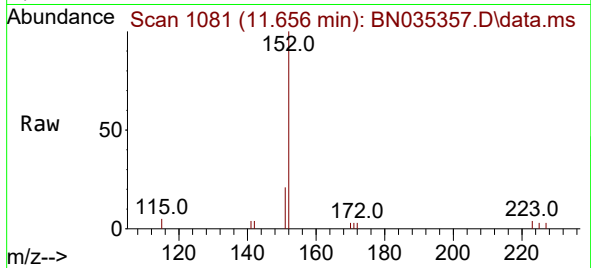




#11  
2-Methylnaphthalene-d10  
Concen: 0.420 ng  
RT: 11.656 min Scan# 1081  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

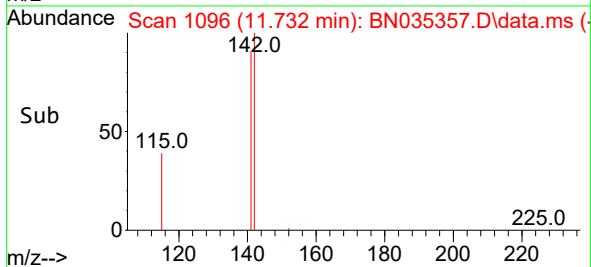
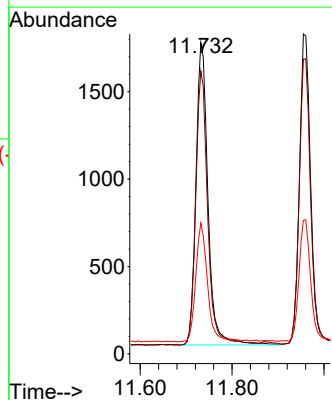
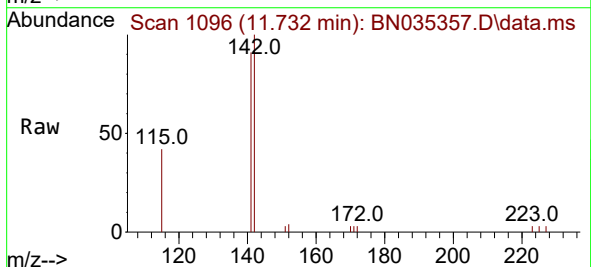
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112724

Tgt Ion:152 Resp: 2565  
Ion Ratio Lower Upper  
152 100  
151 20.5 16.6 25.0

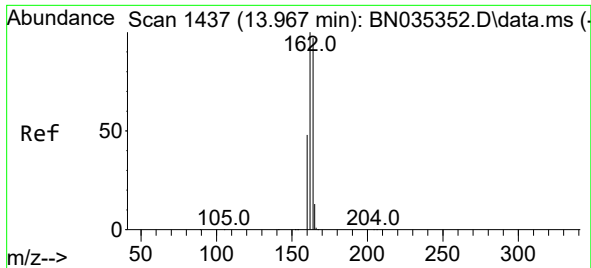


#12  
2-Methylnaphthalene  
Concen: 0.428 ng  
RT: 11.732 min Scan# 1096  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

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



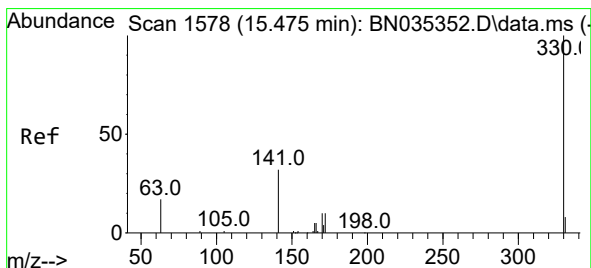
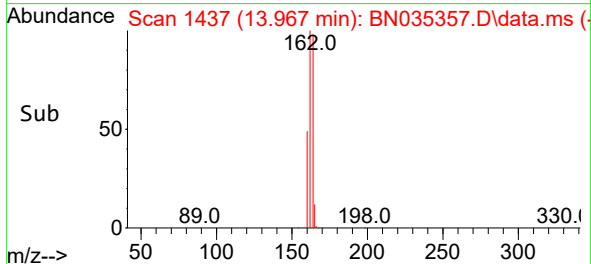
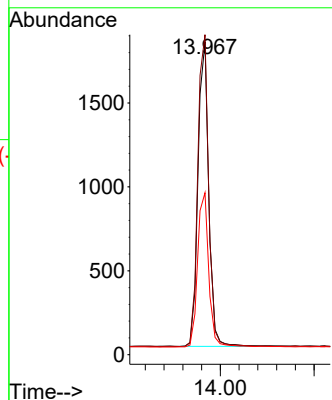
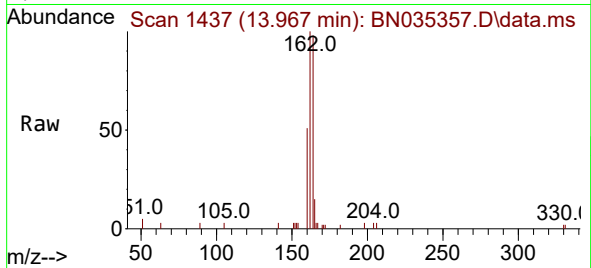




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.967 min Scan# 1437  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

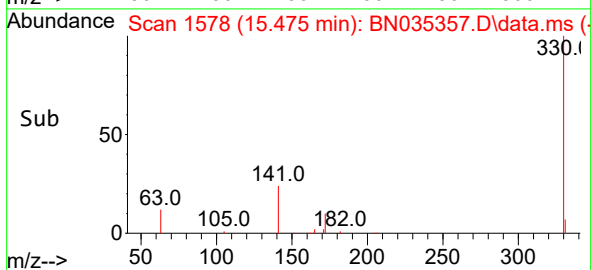
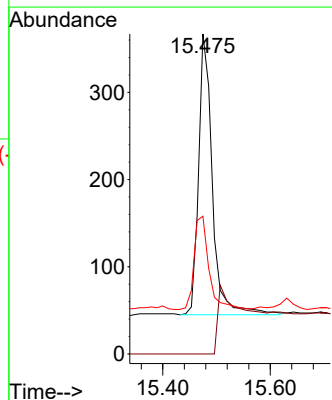
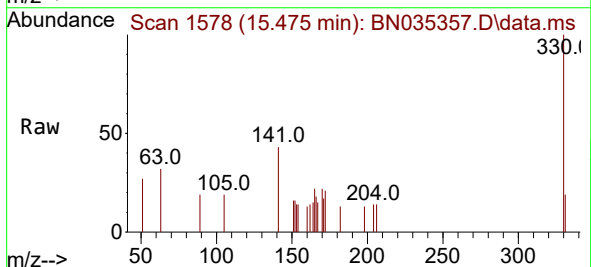
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112724

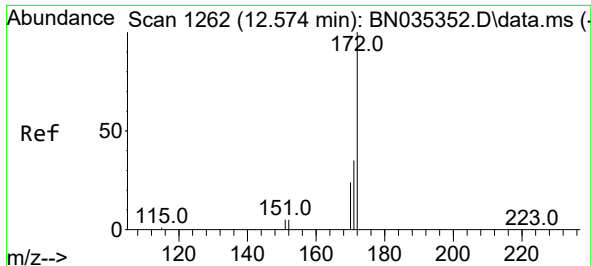
Tgt Ion:164 Resp: 2879  
Ion Ratio Lower Upper  
164 100  
162 102.3 82.2 123.2  
160 51.8 40.1 60.1



#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

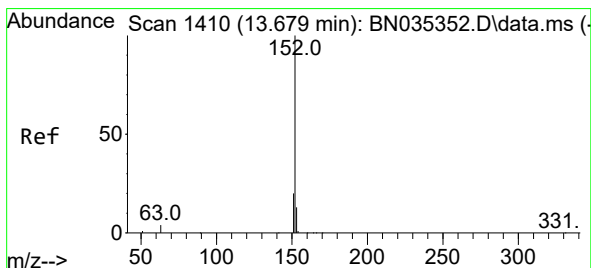
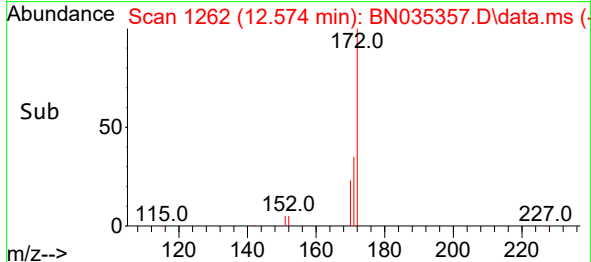
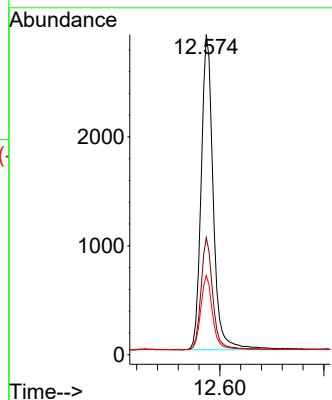
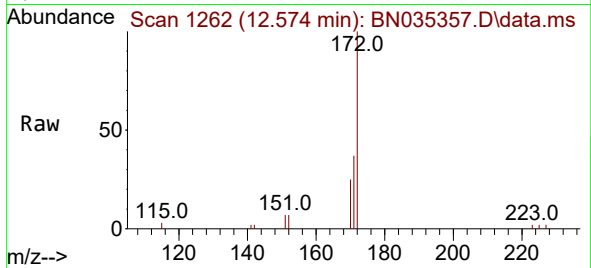




#15  
2-Fluorobiphenyl  
Concen: 0.427 ng  
RT: 12.574 min Scan# 1262  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

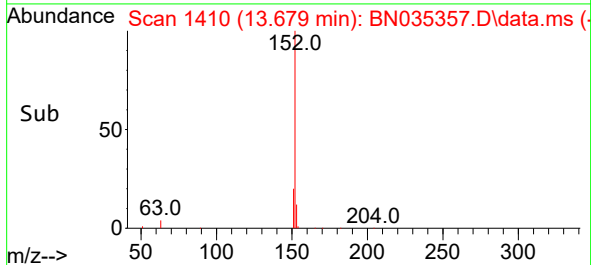
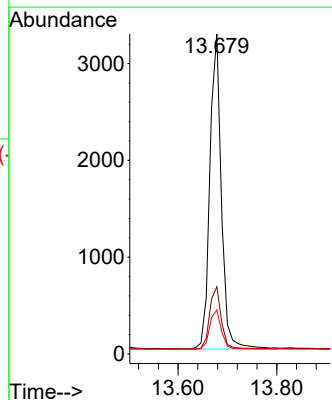
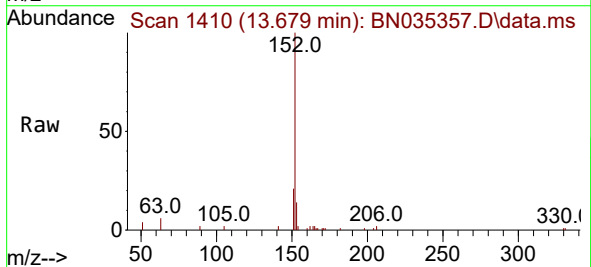
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112724

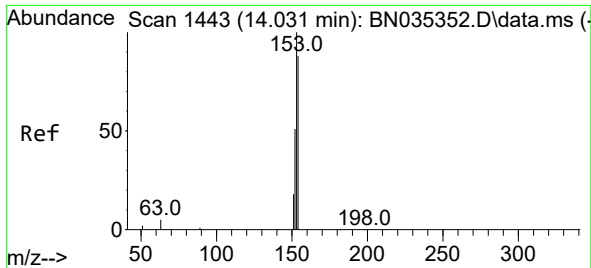
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:172 | Resp: | 4647      |
| Ion Ratio   | Lower | Upper     |
| 172         | 100   |           |
| 171         | 36.5  | 29.0 43.4 |
| 170         | 24.7  | 19.8 29.8 |



#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 |

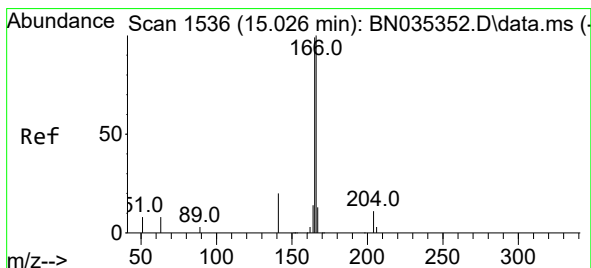
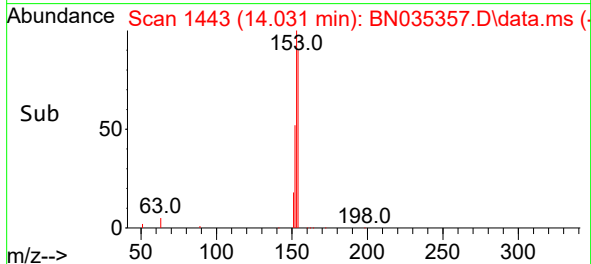
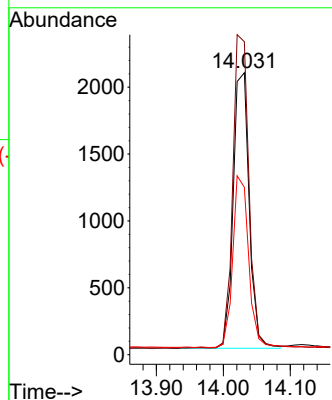
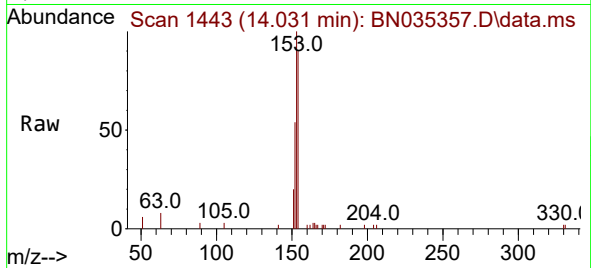




#17  
Acenaphthene  
Concen: 0.426 ng  
RT: 14.031 min Scan# 1443  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

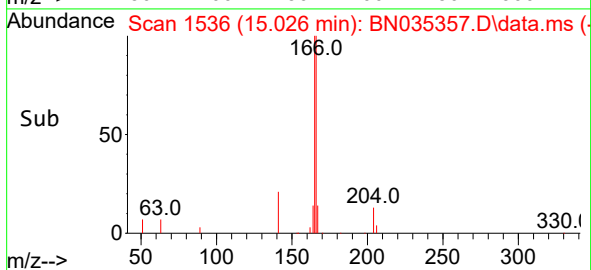
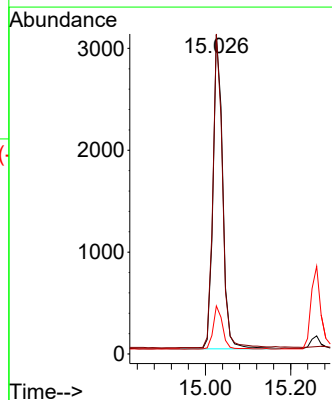
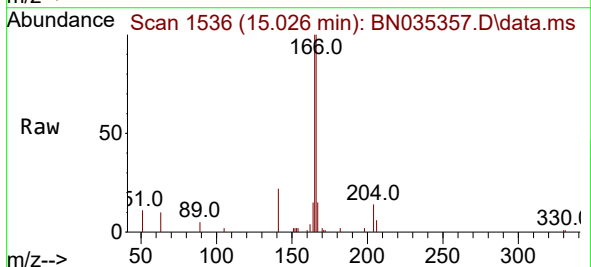
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112724

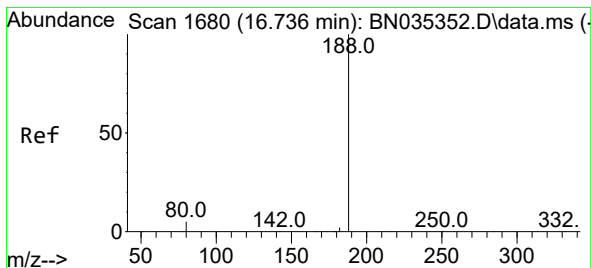
Tgt Ion:154 Resp: 3421  
Ion Ratio Lower Upper  
154 100  
153 115.4 92.6 139.0  
152 61.9 49.0 73.6



#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

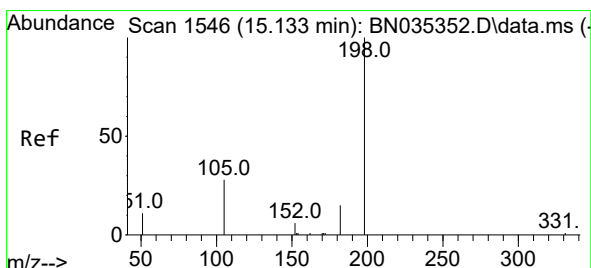
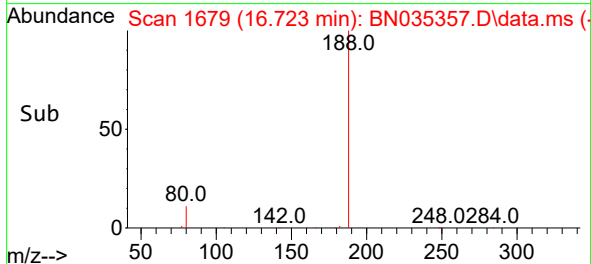
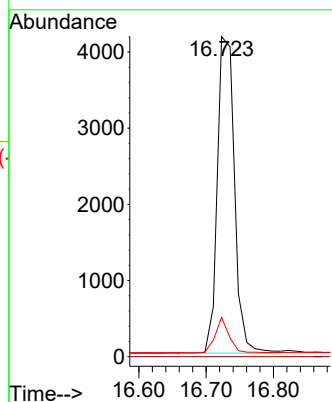
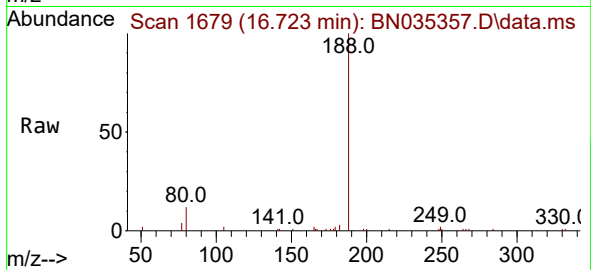




#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 16.723 min Scan# 1679  
Delta R.T. -0.012 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

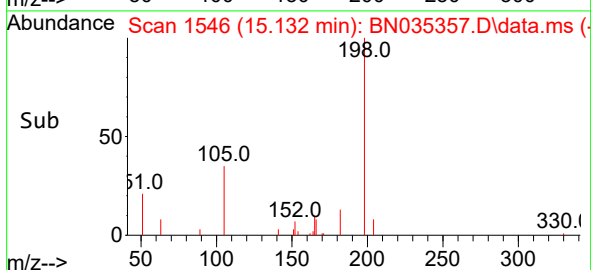
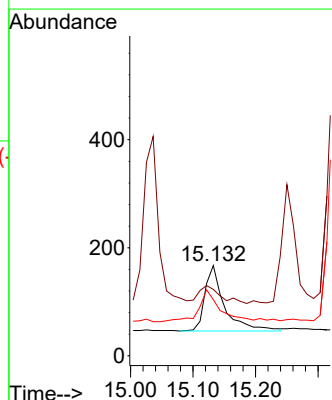
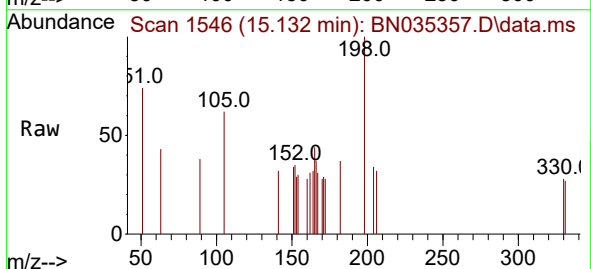
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112724

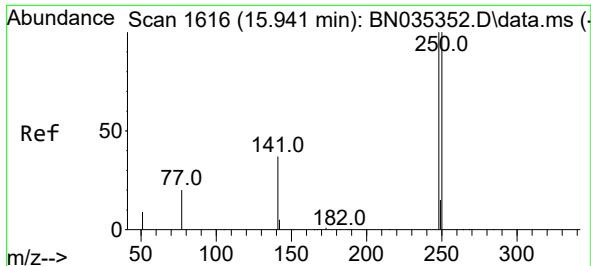
Tgt Ion:188 Resp: 7350  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 12.2 4.6 6.8#



#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

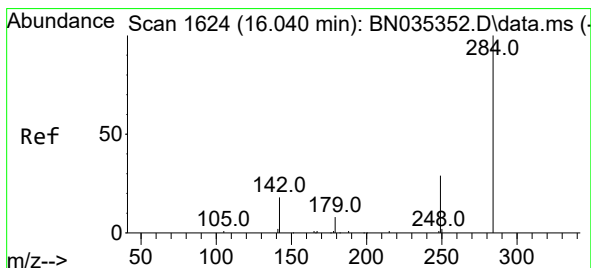
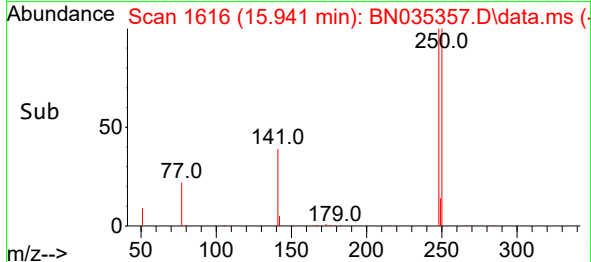
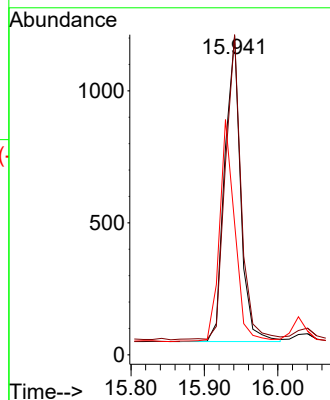
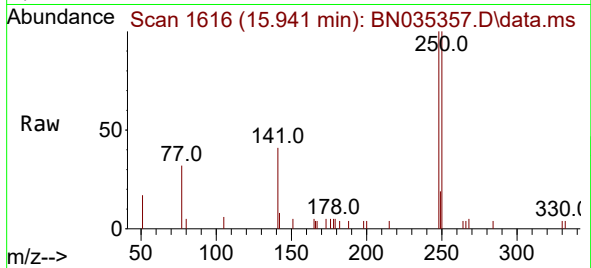




#21  
4-Bromophenyl-phenylether  
Concen: 0.405 ng  
RT: 15.941 min Scan# 1616  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

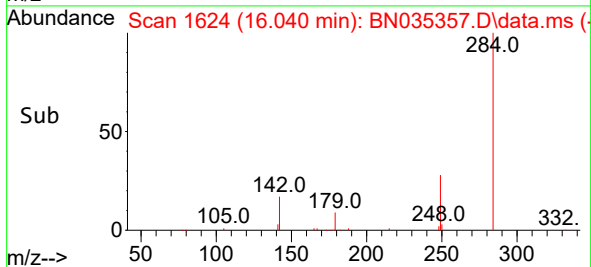
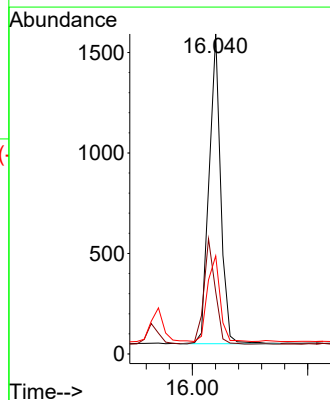
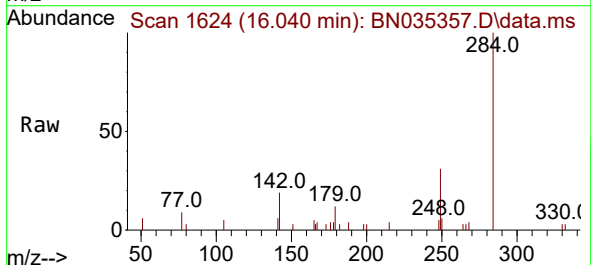
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112724

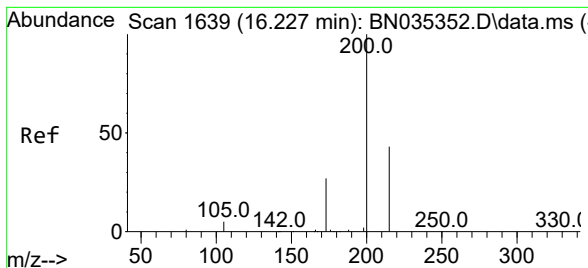
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 248     | 100   |       |       |
| 250     | 100.3 | 80.6  | 120.8 |
| 141     | 41.2  | 31.5  | 47.3  |



#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 | 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

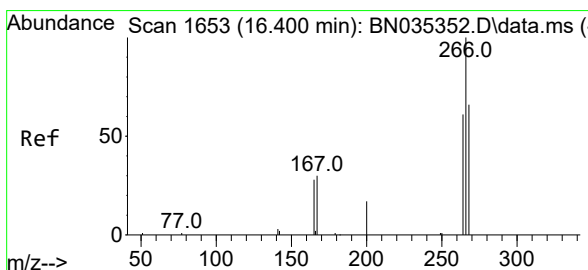
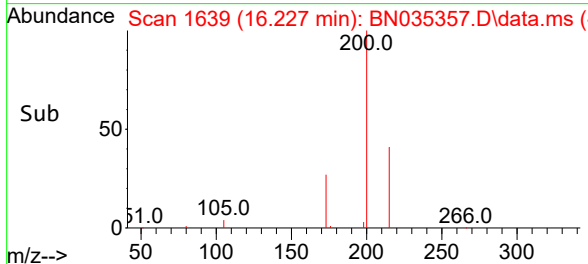
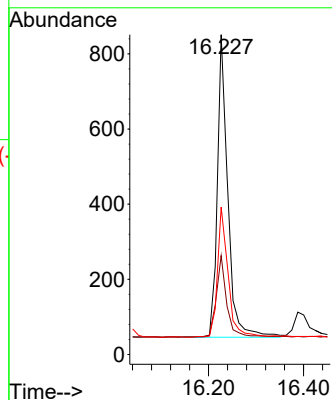
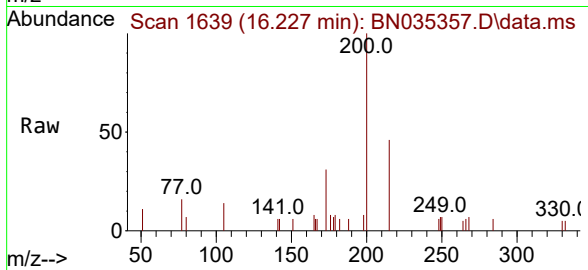
Tgt Ion:200 Resp: 1227

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

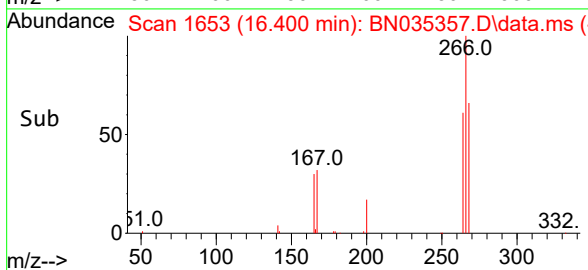
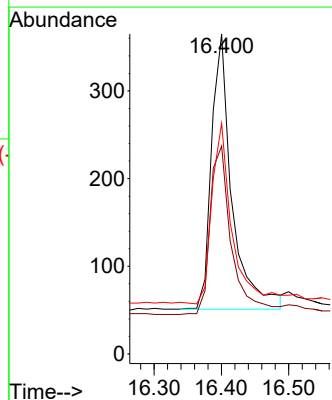
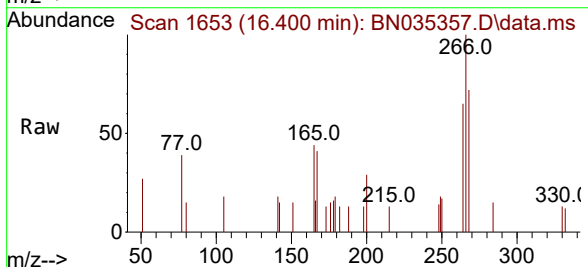
Tgt Ion:266 Resp: 662

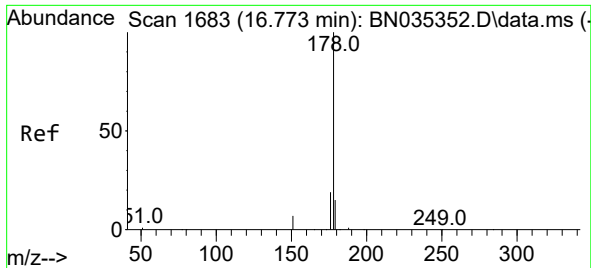
Ion Ratio Lower Upper

266 100

264 65.0 42.3 63.5#

268 66.8 43.3 64.9#

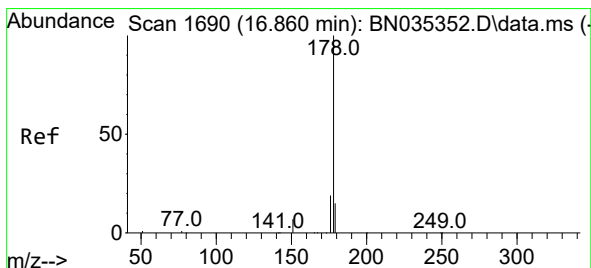
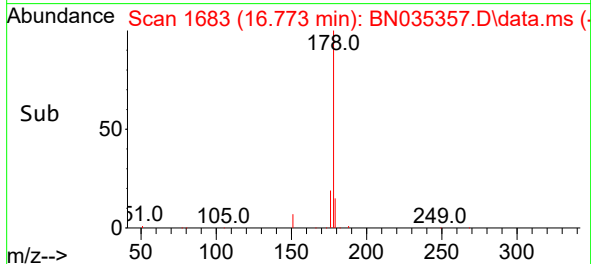
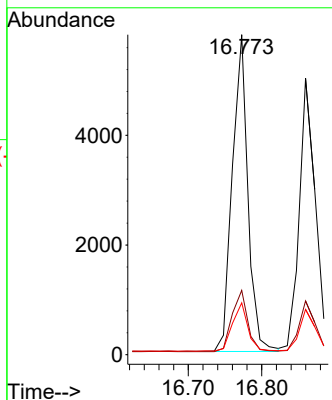
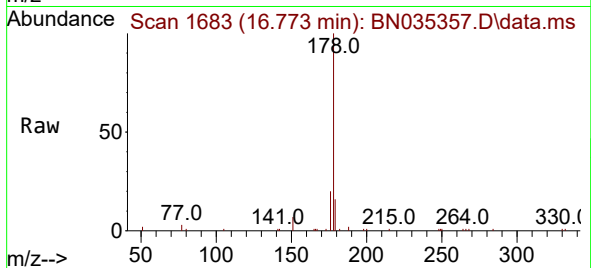




#25  
 Phenanthrene  
 Concen: 0.421 ng  
 RT: 16.773 min Scan# 1683  
 Delta R.T. -0.000 min  
 Lab File: BN035357.D  
 Acq: 27 Nov 2024 20:21

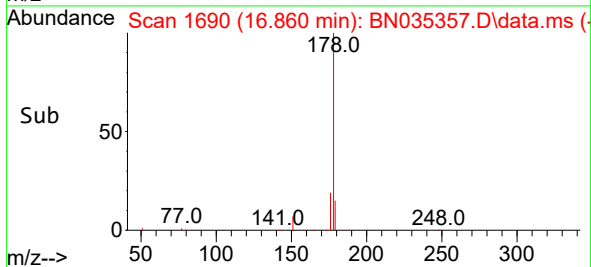
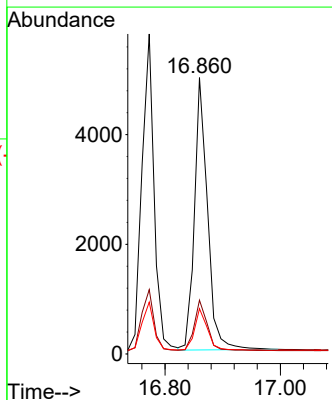
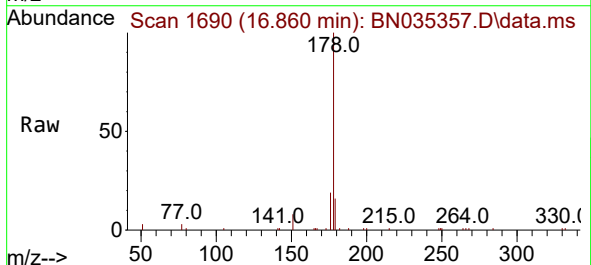
Instrument :  
 BNA\_N  
 ClientSampleId :  
 ICVBN112724

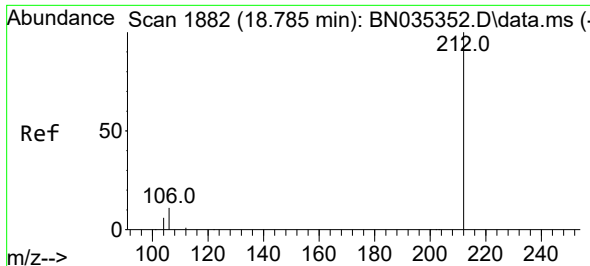
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 178   | Resp: | 8509 |
| Ion Ratio | Lower | Upper |      |
| 178       | 100   |       |      |
| 176       | 19.6  | 15.4  | 23.2 |
| 179       | 15.4  | 12.3  | 18.5 |



#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 |

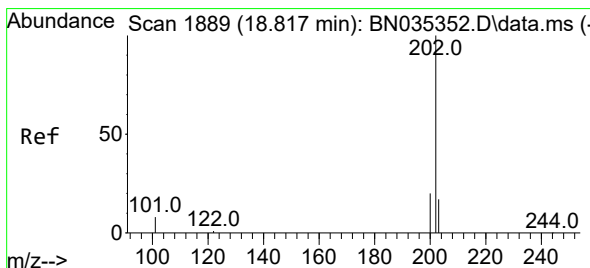
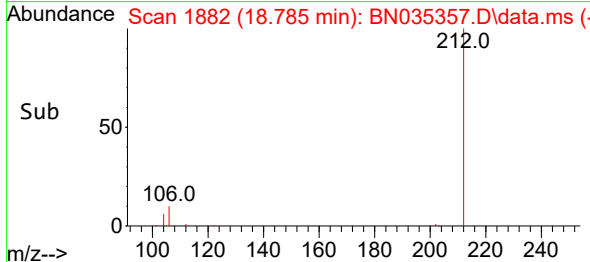
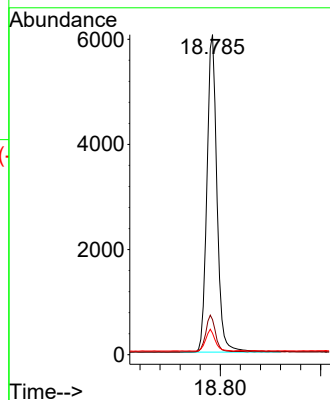
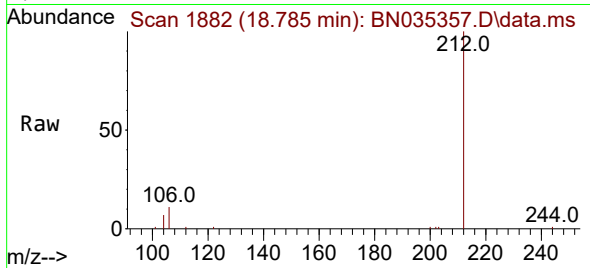




#27  
Fluoranthene-d10  
Concen: 0.404 ng  
RT: 18.785 min Scan# 1882  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

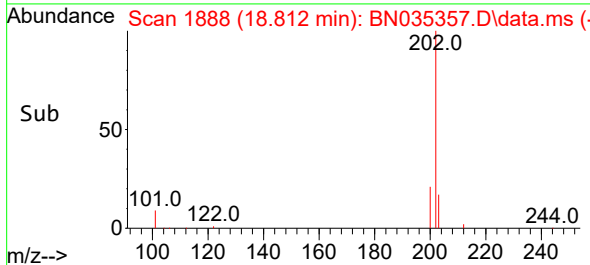
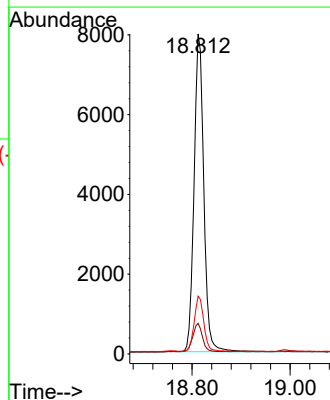
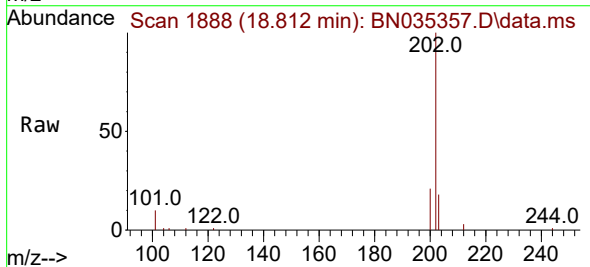
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112724

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 212     | 100   |       |       |
| 106     | 11.3  | 9.2   | 13.8  |
| 104     | 6.4   | 5.3   | 7.9   |

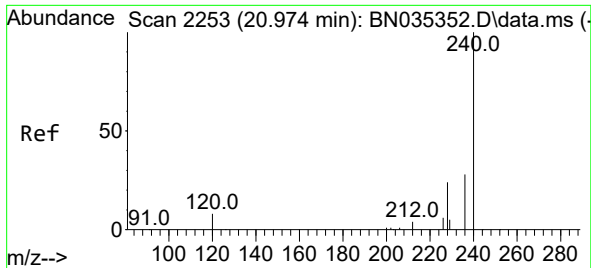


#28  
Fluoranthene  
Concen: 0.402 ng  
RT: 18.812 min Scan# 1888  
Delta R.T. -0.005 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 9.2   | 7.4   | 11.0  |
| 203     | 17.1  | 13.7  | 20.5  |

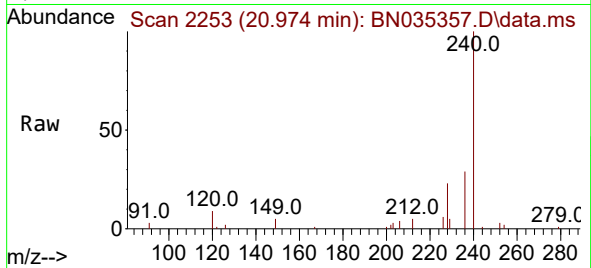




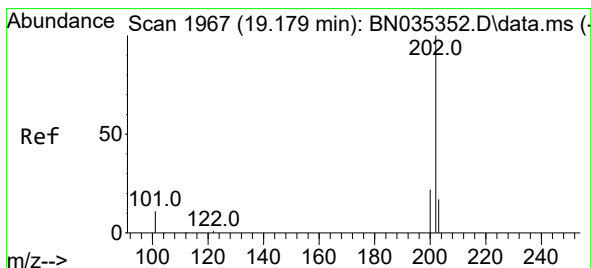
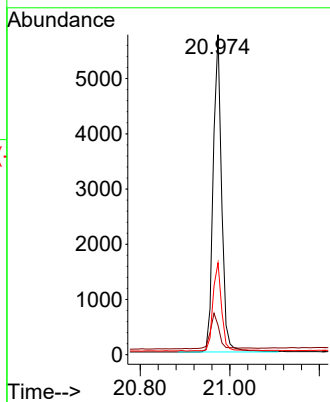
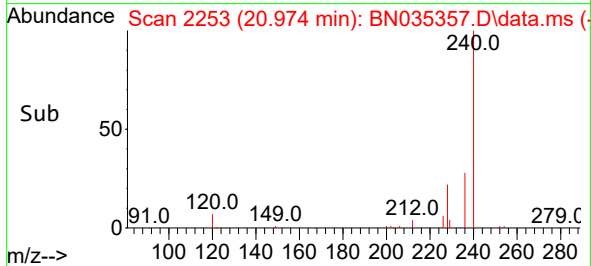


#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 20.974 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

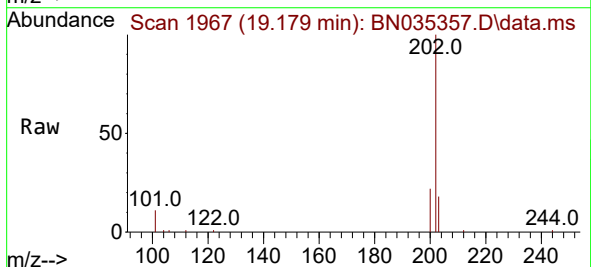
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112724



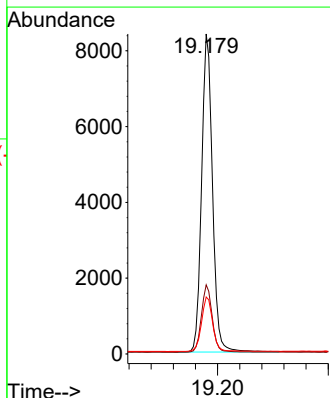
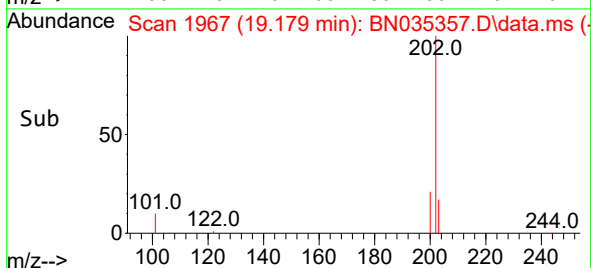
Tgt Ion:240 Resp: 7576  
Ion Ratio Lower Upper  
240 100  
120 9.1 7.9 11.9  
236 28.7 22.9 34.3

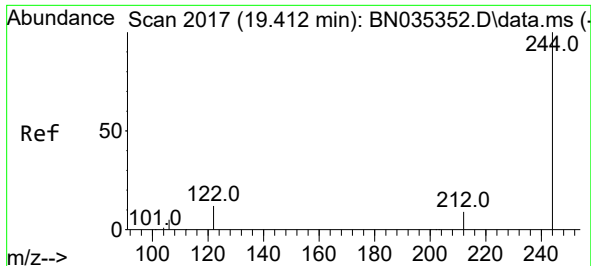


#30  
Pyrene  
Concen: 0.410 ng  
RT: 19.179 min Scan# 1967  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21



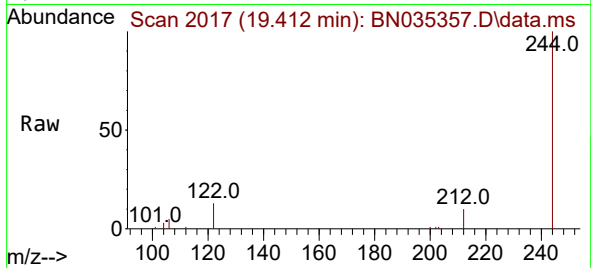
Tgt Ion:202 Resp: 11476  
Ion Ratio Lower Upper  
202 100  
200 20.9 17.0 25.4  
203 17.8 14.3 21.5



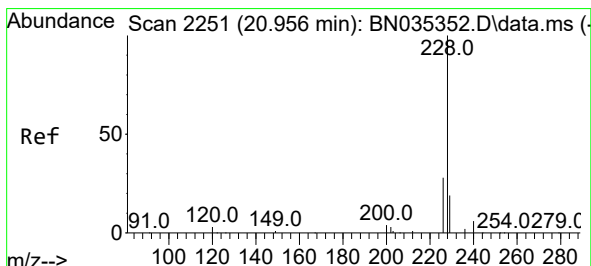
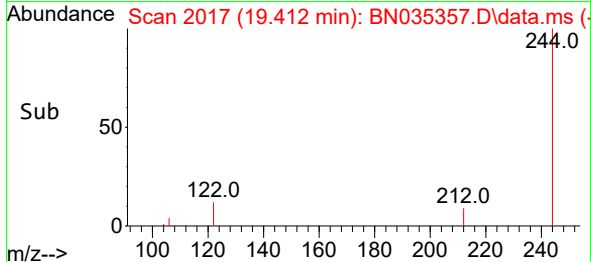
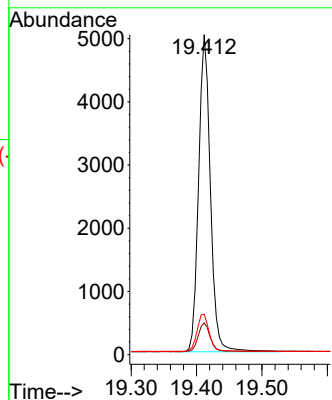


#31  
 Terphenyl-d14  
 Concen: 0.420 ng  
 RT: 19.412 min Scan# 2017  
 Delta R.T. -0.000 min  
 Lab File: BN035357.D  
 Acq: 27 Nov 2024 20:21

Instrument :  
 BNA\_N  
 ClientSampleId :  
 ICVBN112724

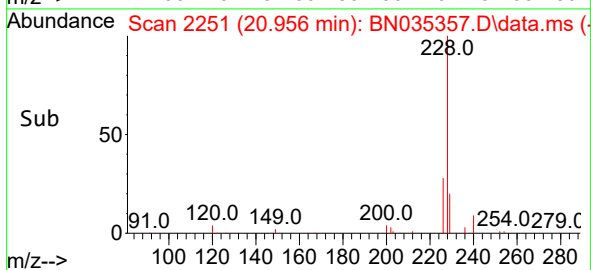
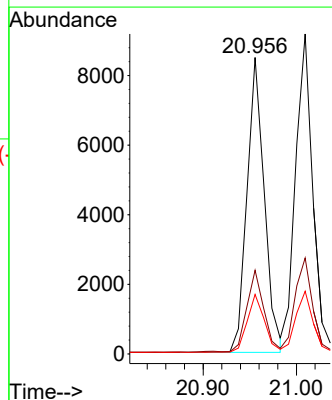
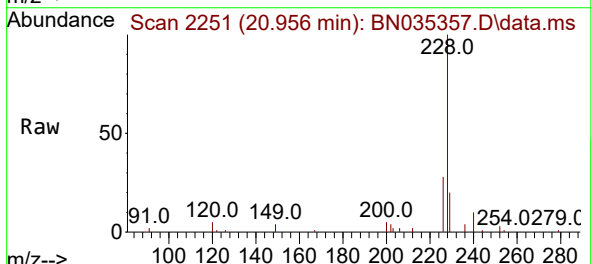


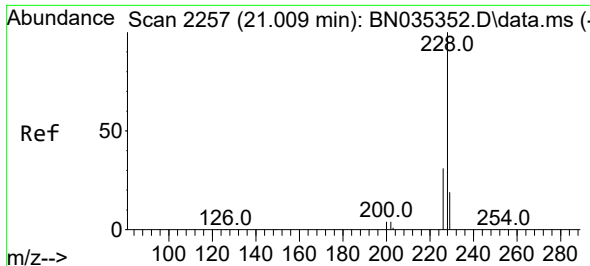
Tgt Ion:244 Resp: 6272  
 Ion Ratio Lower Upper  
 244 100  
 212 9.9 8.1 12.1  
 122 12.6 10.3 15.5



#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

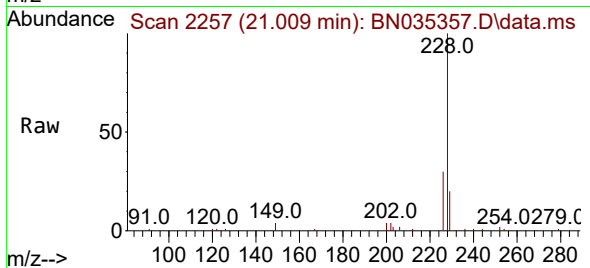
Tgt Ion:228 Resp: 10934  
 Ion Ratio Lower Upper  
 228 100  
 226 28.2 22.5 33.7  
 229 20.1 15.8 23.8



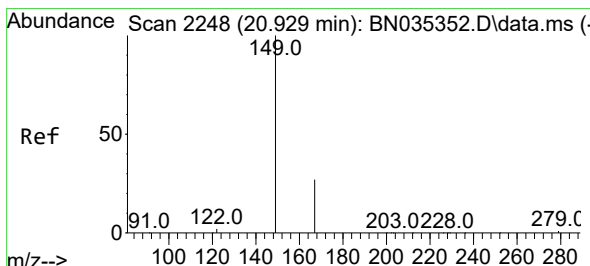
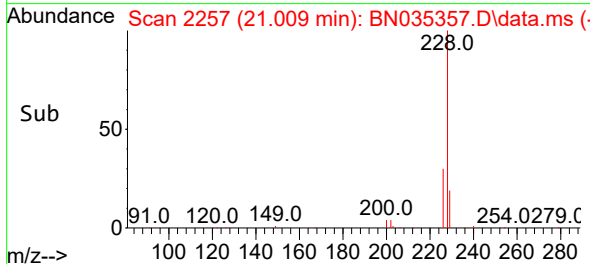
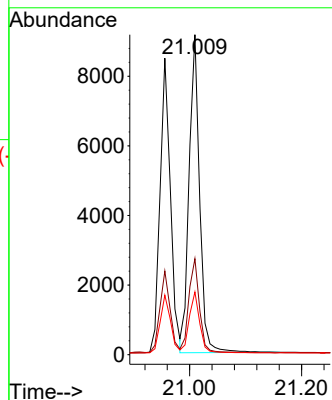


#33  
Chrysene  
Concen: 0.436 ng  
RT: 21.009 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112724

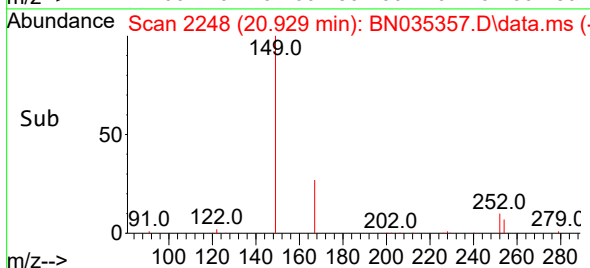
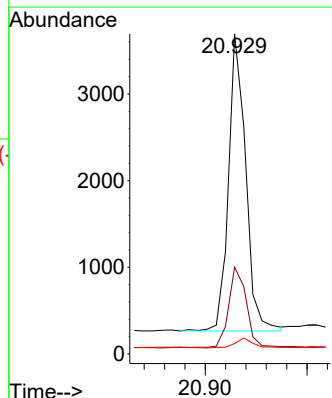
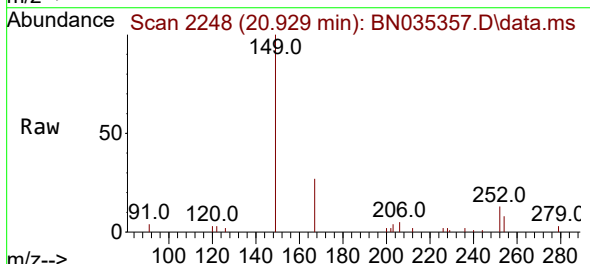


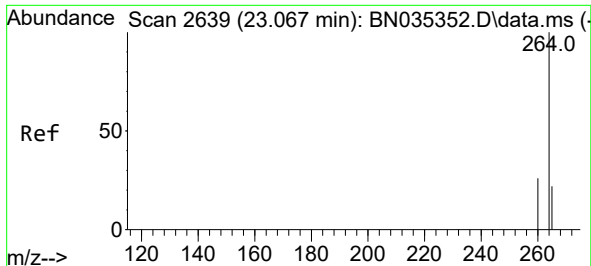
Tgt Ion:228 Resp: 11926  
Ion Ratio Lower Upper  
228 100  
226 30.0 24.6 37.0  
229 19.6 15.9 23.9



#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

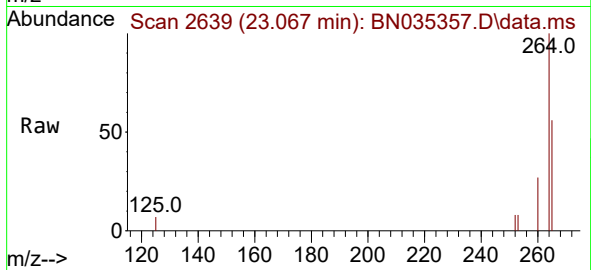
Tgt Ion:149 Resp: 4016  
Ion Ratio Lower Upper  
149 100  
167 27.7 22.2 33.4  
279 3.7 2.7 4.1



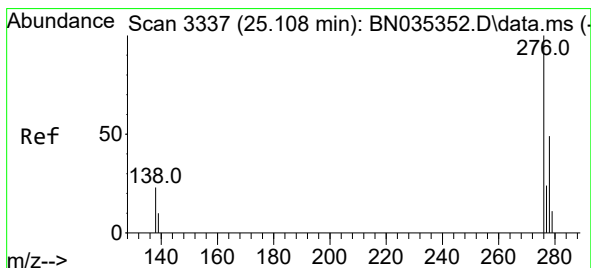
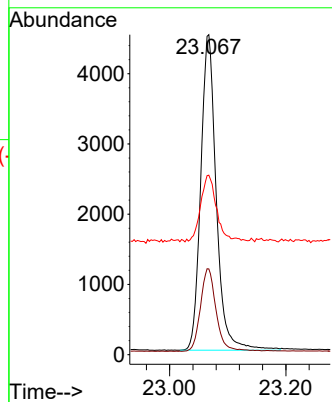
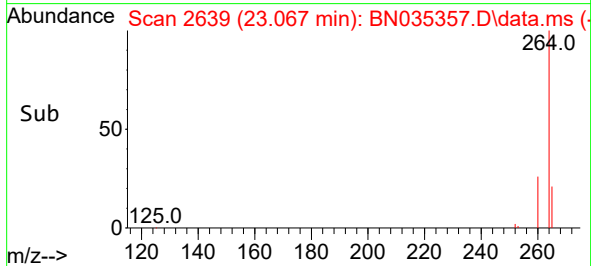


#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.067 min Scan# 20  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

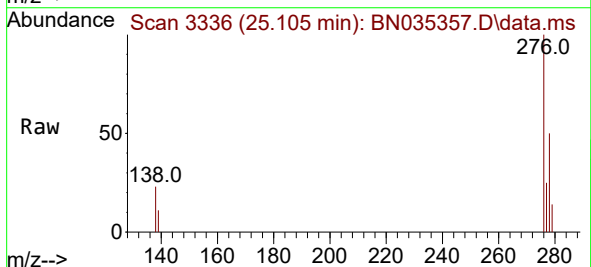
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112724



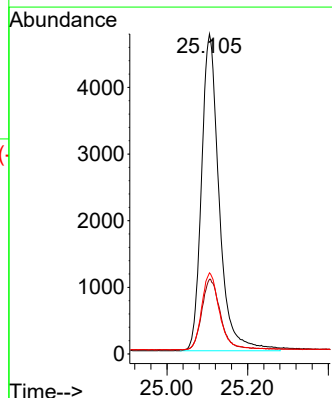
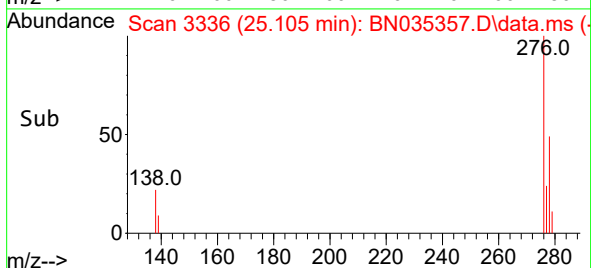
Tgt Ion:264 Resp: 8338  
Ion Ratio Lower Upper  
264 100  
260 26.8 21.4 32.2  
265 56.1 40.2 60.4

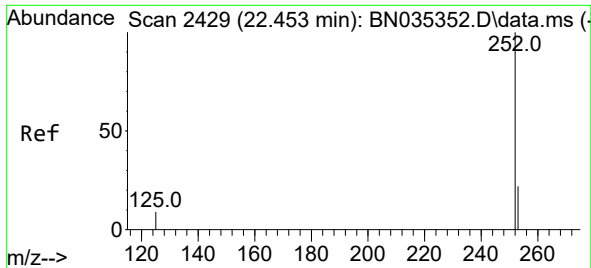


#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.443 ng  
RT: 25.105 min Scan# 3336  
Delta R.T. -0.003 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21



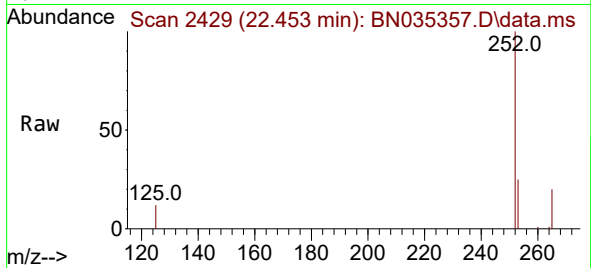
Tgt Ion:276 Resp: 14433  
Ion Ratio Lower Upper  
276 100  
138 23.5 19.4 29.0  
277 24.6 19.8 29.6



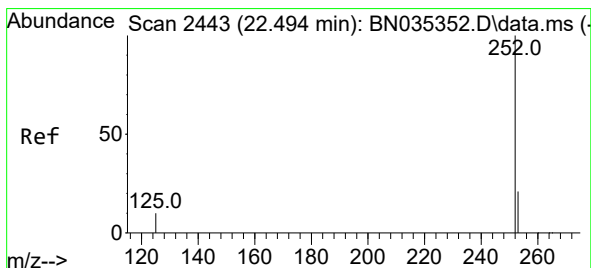
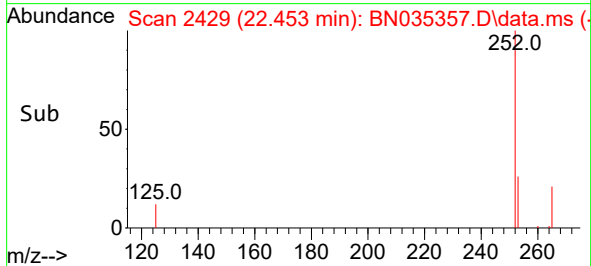
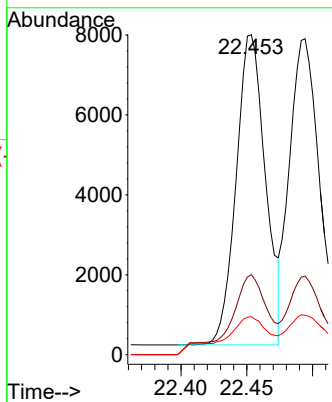


#37  
Benzo(b)fluoranthene  
Concen: 0.426 ng  
RT: 22.453 min Scan# 2429  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112724

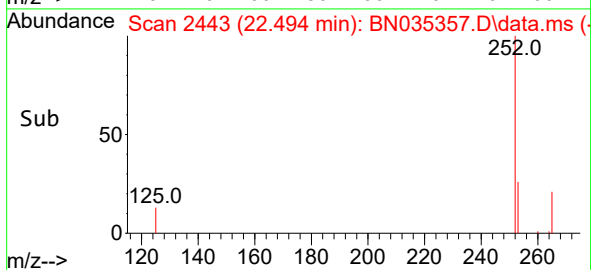
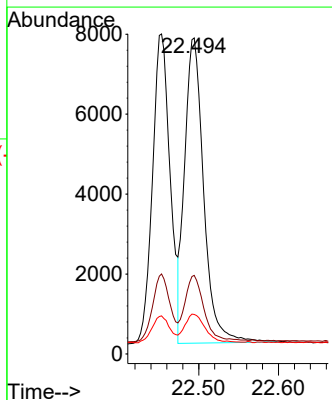
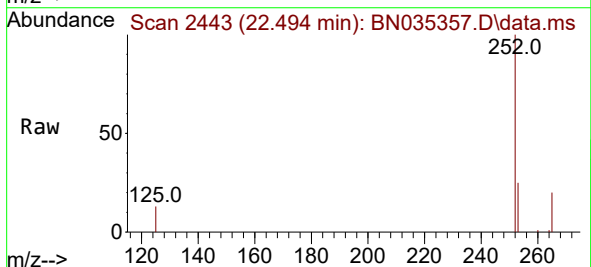


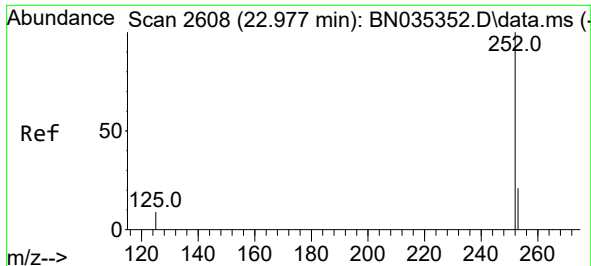
Tgt Ion:252 Resp: 12988  
Ion Ratio Lower Upper  
252 100  
253 25.0 19.6 29.4  
125 11.9 9.6 14.4



#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# 2

Delta R.T. -0.003 min

Lab File: BN035357.D

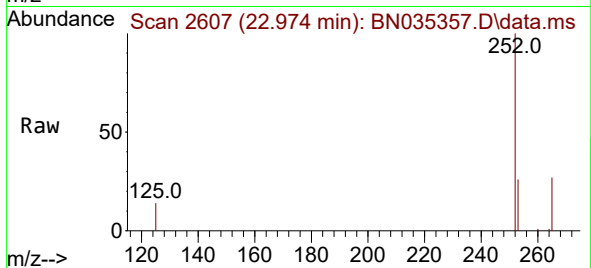
Acq: 27 Nov 2024 20:21

Instrument :

BNA\_N

ClientSampleId :

ICVBN112724



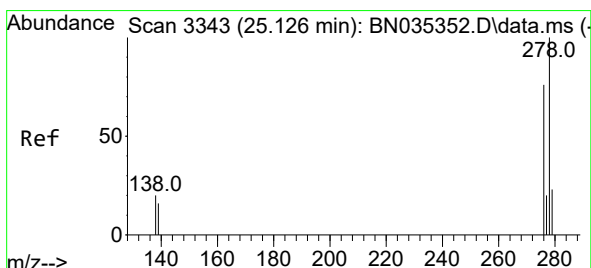
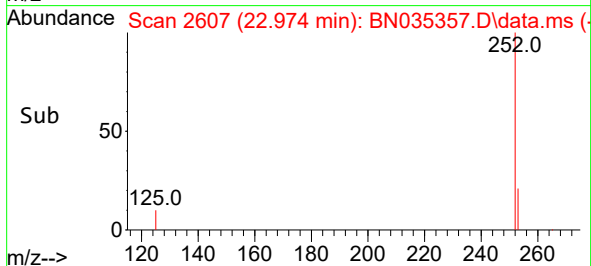
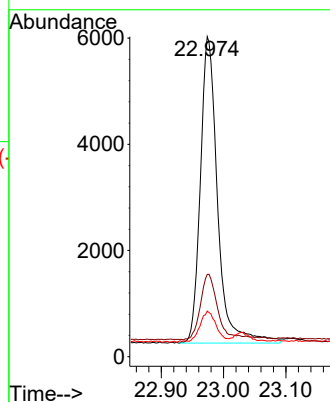
Tgt Ion:252 Resp: 11094

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

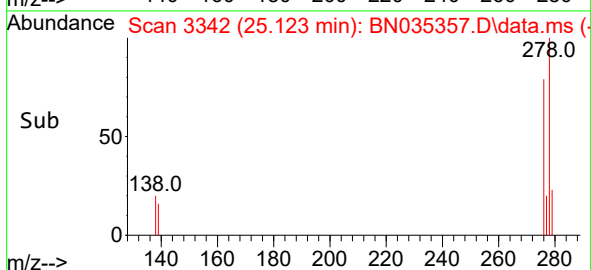
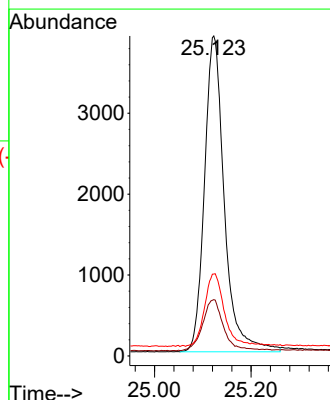
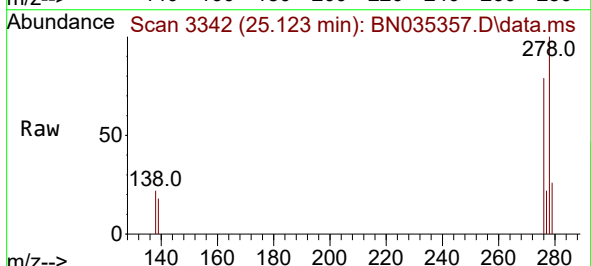
Tgt Ion:278 Resp: 11141

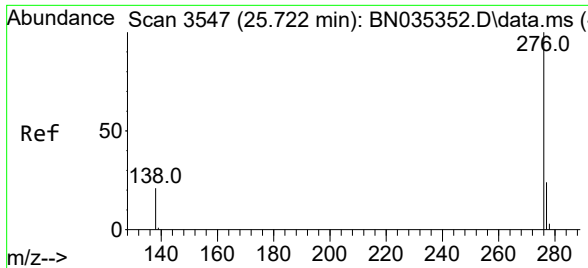
Ion Ratio Lower Upper

278 100

139 17.6 14.2 21.4

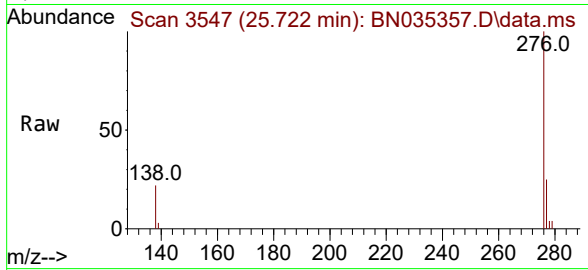
279 25.6 20.5 30.7



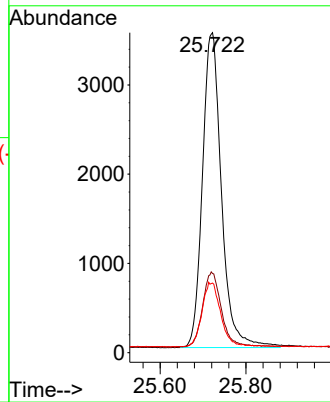
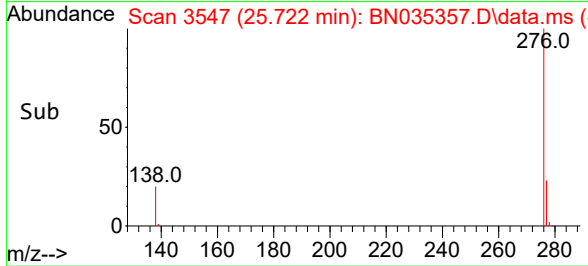


#41  
Benzo(g,h,i)perylene  
Concen: 0.404 ng  
RT: 25.722 min Scan# 31  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

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\BN120424\  
 Data File : BN035406.D  
 Acq On : 03 Dec 2024 16:35  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4

Quant Time: Dec 03 17:45:31 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     | 7.300  | 152  | 2015     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.052 | 136  | 5135     | 0.400 | ng    | # 0.00   |
| 13) Acenaphthene-d10          | 13.957 | 164  | 3625     | 0.400 | ng    | -0.01    |
| 19) Phenanthrene-d10          | 16.723 | 188  | 8862     | 0.400 | ng    | #-0.01   |
| 29) Chrysene-d12              | 20.974 | 240  | 8251     | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.070 | 264  | 7832     | 0.400 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 4.960  | 112  | 1808     | 0.359 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.506  | 99   | 2219     | 0.366 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.440  | 82   | 1450     | 0.462 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.651 | 152  | 3083     | 0.384 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.475 | 330  | 916      | 0.356 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.569 | 172  | 5574     | 0.407 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 18.780 | 212  | 9013     | 0.359 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.412 | 244  | 6327     | 0.389 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
| 2) 1,4-Dioxane                | 2.996  | 88   | 735      | 0.382 | ng    | 98       |
| 3) n-Nitrosodimethylamine     | 3.292  | 42   | 603      | 0.376 | ng    | # 99     |
| 6) bis(2-Chloroethyl)ether    | 6.752  | 93   | 1920     | 0.377 | ng    | 100      |
| 9) Naphthalene                | 10.095 | 128  | 5329     | 0.393 | ng    | 99       |
| 10) Hexachlorobutadiene       | 10.394 | 225  | 1309     | 0.419 | ng    | # 99     |
| 12) 2-Methylnaphthalene       | 11.727 | 142  | 3781     | 0.390 | ng    | 99       |
| 16) Acenaphthylene            | 13.668 | 152  | 5887     | 0.387 | ng    | 100      |
| 17) Acenaphthene              | 14.021 | 154  | 3907     | 0.387 | ng    | 98       |
| 18) Fluorene                  | 15.026 | 166  | 5593     | 0.387 | ng    | 99       |
| 20) 4,6-Dinitro-2-methylph... | 15.133 | 198  | 291      | 0.334 | ng    | # 83     |
| 21) 4-Bromophenyl-phenylether | 15.929 | 248  | 2060     | 0.397 | ng    | # 75     |
| 22) Hexachlorobenzene         | 16.040 | 284  | 2548     | 0.419 | ng    | 98       |
| 23) Atrazine                  | 16.227 | 200  | 1209     | 0.328 | ng    | 98       |
| 24) Pentachlorophenol         | 16.400 | 266  | 848      | 0.320 | ng    | # 84     |
| 25) Phenanthrene              | 16.773 | 178  | 9564     | 0.393 | ng    | 100      |
| 26) Anthracene                | 16.860 | 178  | 8243     | 0.374 | ng    | 100      |
| 28) Fluoranthene              | 18.812 | 202  | 12056    | 0.367 | ng    | 100      |
| 30) Pyrene                    | 19.179 | 202  | 12183    | 0.400 | ng    | 100      |
| 32) Benzo(a)anthracene        | 20.956 | 228  | 10317    | 0.357 | ng    | 99       |
| 33) Chrysene                  | 21.009 | 228  | 12005    | 0.403 | ng    | 100      |
| 34) Bis(2-ethylhexyl)phtha... | 20.929 | 149  | 3769     | 0.331 | ng    | 99       |
| 36) Indeno(1,2,3-cd)pyrene    | 25.108 | 276  | 11257    | 0.368 | ng    | 98       |
| 37) Benzo(b)fluoranthene      | 22.456 | 252  | 11172    | 0.390 | ng    | 99       |
| 38) Benzo(k)fluoranthene      | 22.497 | 252  | 11663    | 0.414 | ng    | 99       |
| 39) Benzo(a)pyrene            | 22.980 | 252  | 9142     | 0.387 | ng    | 98       |
| 40) Dibenzo(a,h)anthracene    | 25.126 | 278  | 8667     | 0.359 | ng    | 99       |
| 41) Benzo(g,h,i)perylene      | 25.722 | 276  | 9676     | 0.383 | ng    | 100      |

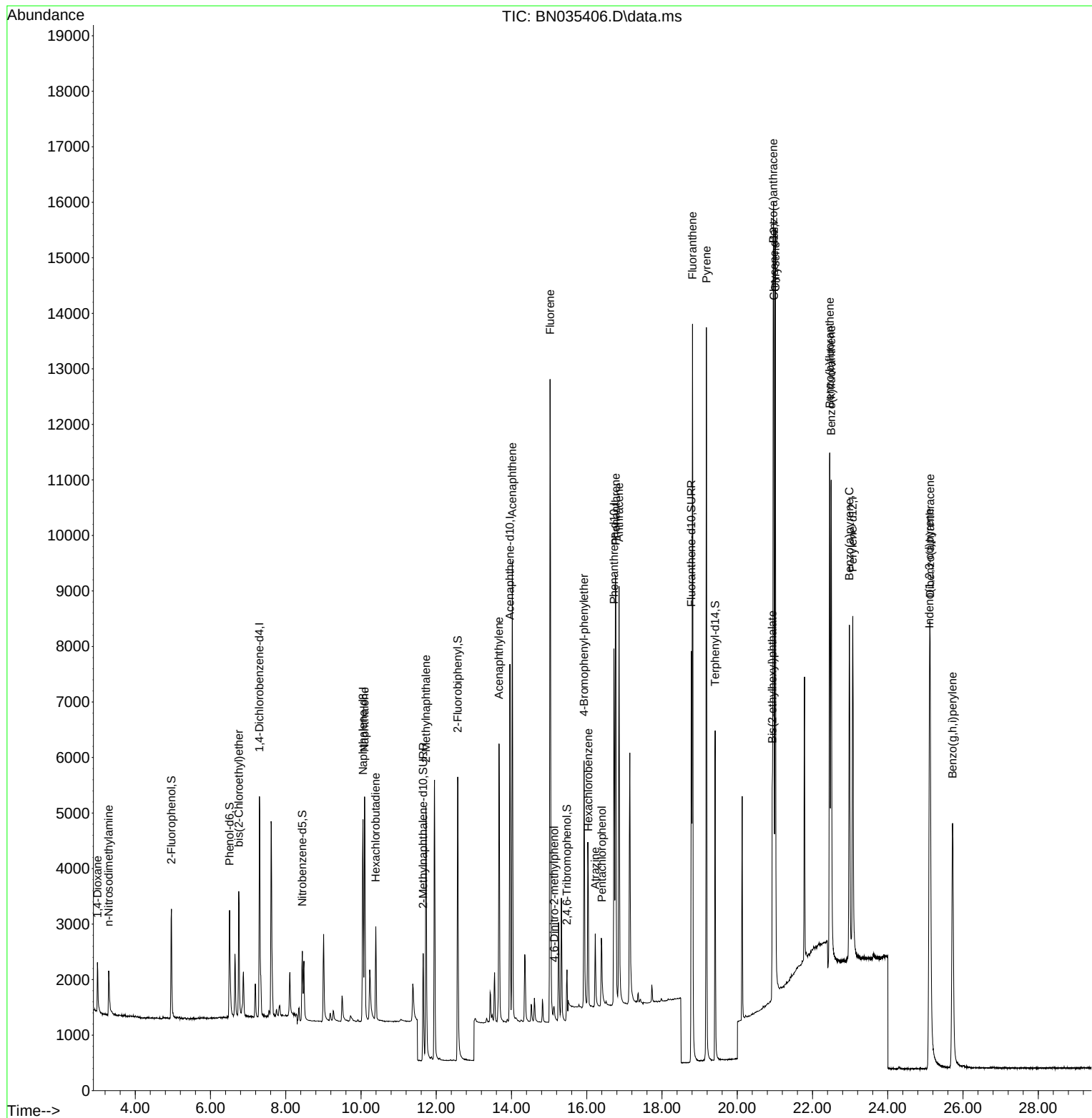
(#) = qualifier out of range (m) = manual integration (+) = signals summed

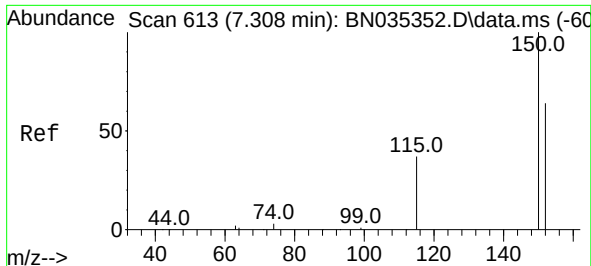


Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN120424\  
Data File : BN035406.D  
Acq On : 03 Dec 2024 16:35  
Operator : RC/JU  
Sample : SSTDCCC0.4  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

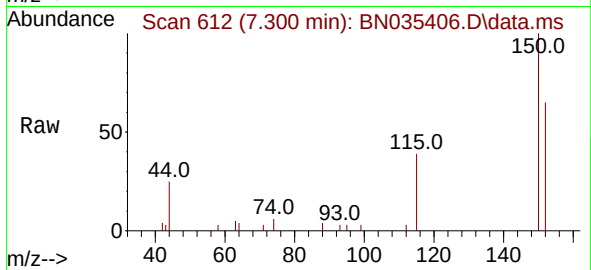
Quant Time: Dec 03 17:45:31 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Nov 27 23:03:24 2024  
Response via : Initial Calibration





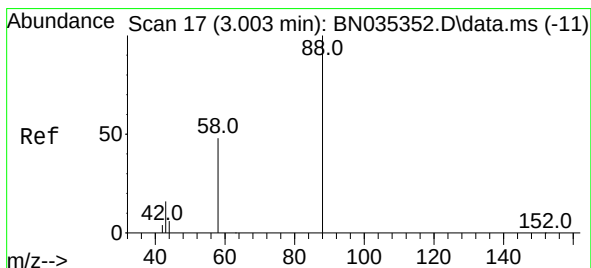
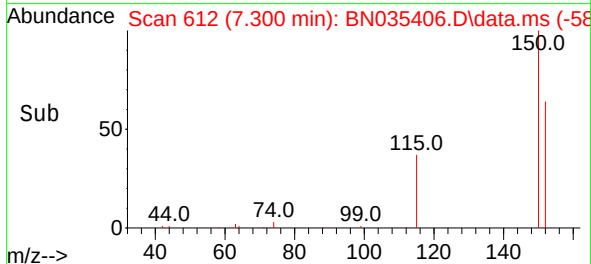
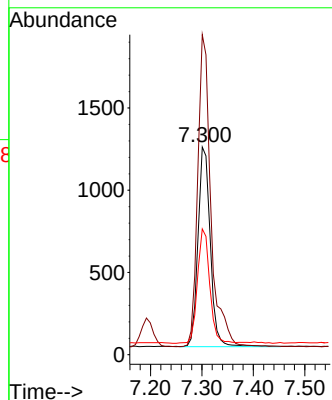
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 0.400 ng  
 RT: 7.300 min Scan# 61  
 Delta R.T. -0.008 min  
 Lab File: BN035406.D  
 Acq: 03 Dec 2024 16:35

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4



Tgt Ion:152 Resp: 2015

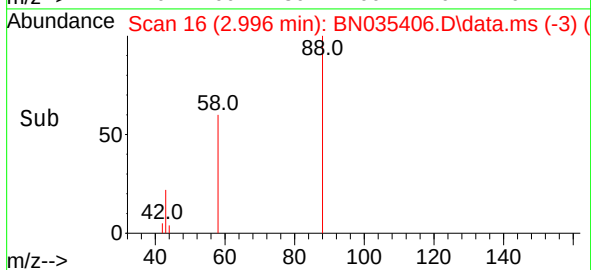
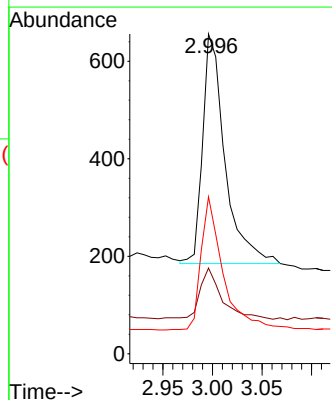
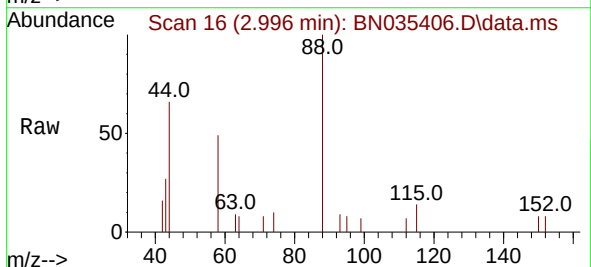
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 152 | 100   |       |       |
| 150 | 154.1 | 124.0 | 186.0 |
| 115 | 60.6  | 49.6  | 74.4  |

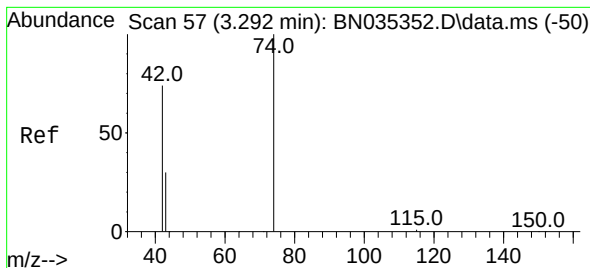


#2  
 1,4-Dioxane  
 Concen: 0.382 ng  
 RT: 2.996 min Scan# 16  
 Delta R.T. -0.007 min  
 Lab File: BN035406.D  
 Acq: 03 Dec 2024 16:35

Tgt Ion: 88 Resp: 735

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 88  | 100   |       |       |
| 43  | 22.2  | 17.2  | 25.8  |
| 58  | 57.3  | 44.5  | 66.7  |





#3

n-Nitrosodimethylamine

Concen: 0.376 ng

RT: 3.292 min Scan# 51

Delta R.T. -0.000 min

Lab File: BN035406.D

Acq: 03 Dec 2024 16:35

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

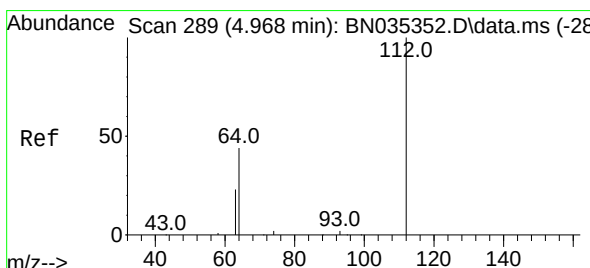
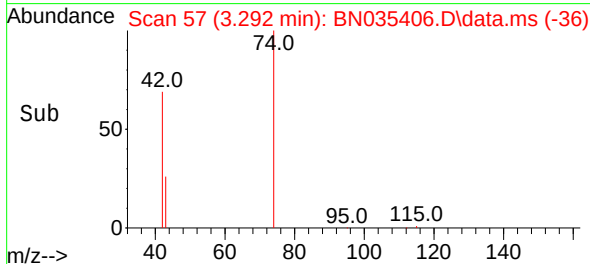
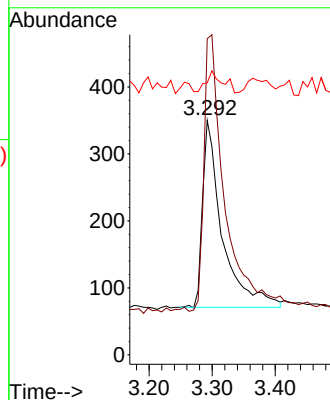
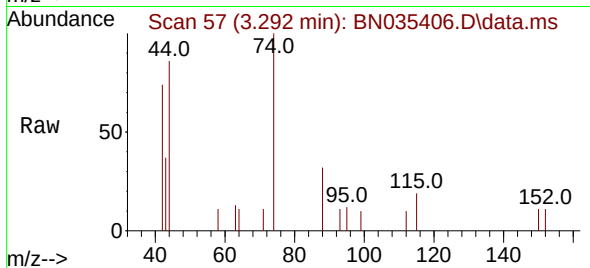
Tgt Ion: 42 Resp: 603

Ion Ratio Lower Upper

42 100

74 156.4 124.9 187.3

44 9.0 2.2 3.4#



#4

2-Fluorophenol

Concen: 0.359 ng

RT: 4.960 min Scan# 288

Delta R.T. -0.007 min

Lab File: BN035406.D

Acq: 03 Dec 2024 16:35

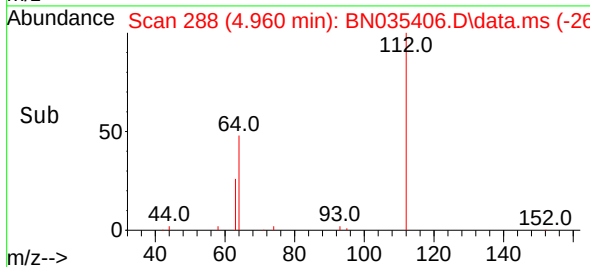
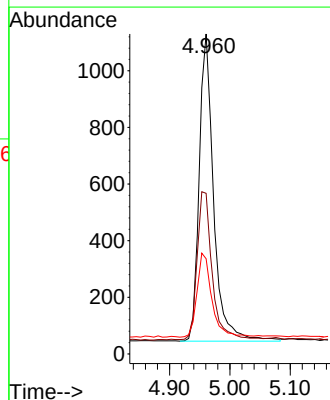
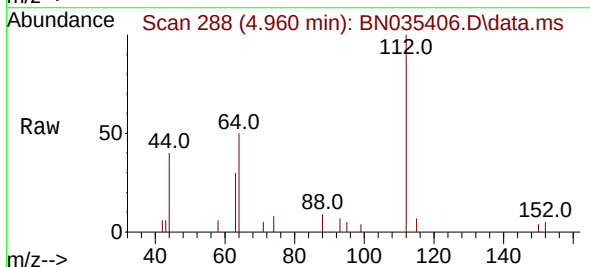
Tgt Ion: 112 Resp: 1808

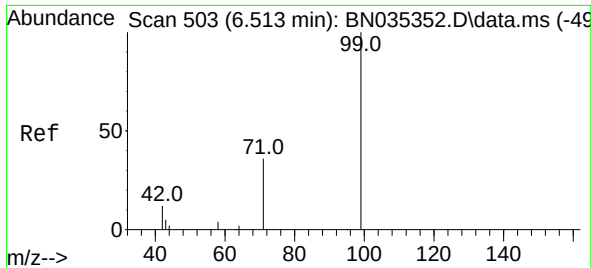
Ion Ratio Lower Upper

112 100

64 50.3 39.8 59.8

63 28.2 21.0 31.6

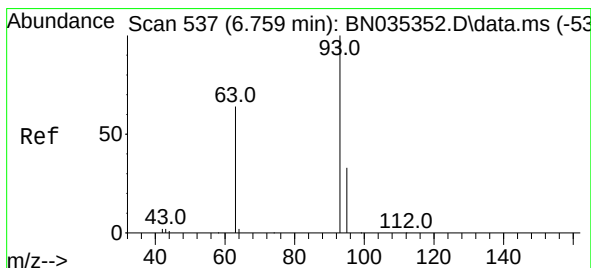
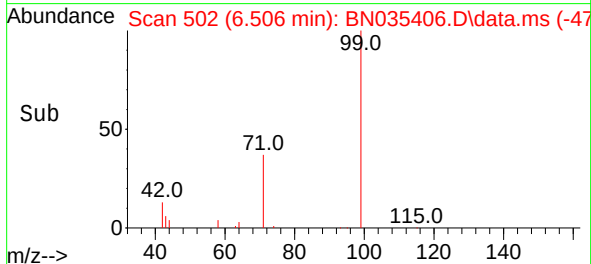
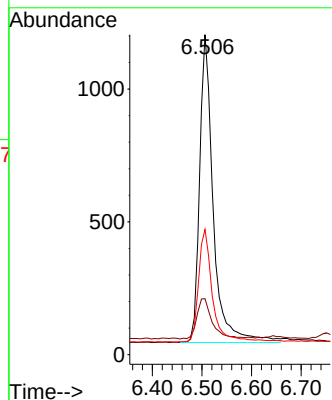
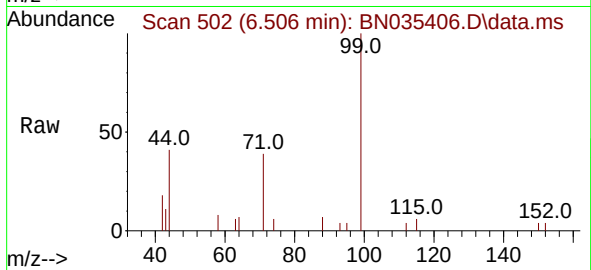




#5  
Phenol-d6  
Concen: 0.366 ng  
RT: 6.506 min Scan# 503  
Delta R.T. -0.007 min  
Lab File: BN035406.D  
Acq: 03 Dec 2024 16:35

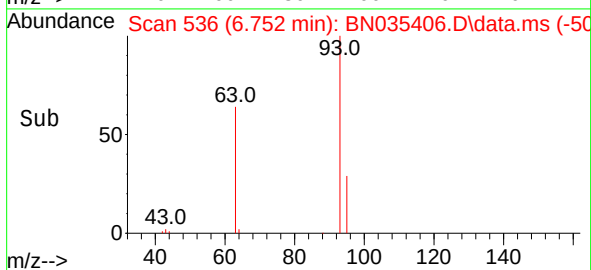
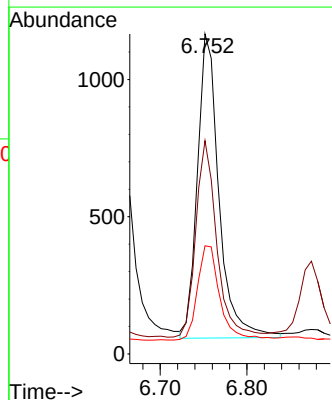
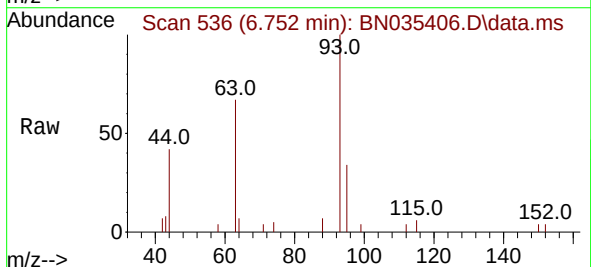
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

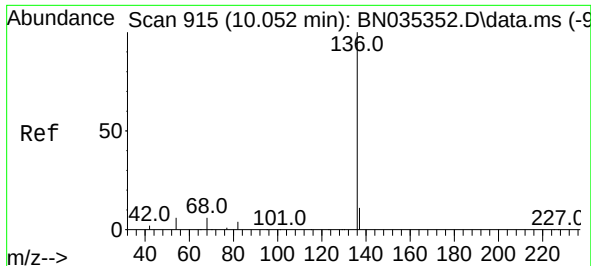
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 99    | Resp: | 2219  |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 14.9  | 11.4  | 17.2  |
| 71       | 37.3  | 29.3  | 43.9  |



#6  
bis(2-Chloroethyl)ether  
Concen: 0.377 ng  
RT: 6.752 min Scan# 536  
Delta R.T. -0.007 min  
Lab File: BN035406.D  
Acq: 03 Dec 2024 16:35

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 93    | Resp: | 1920  |
| Ion      | Ratio | Lower | Upper |
| 93       | 100   |       |       |
| 63       | 62.6  | 50.4  | 75.6  |
| 95       | 32.1  | 25.7  | 38.5  |

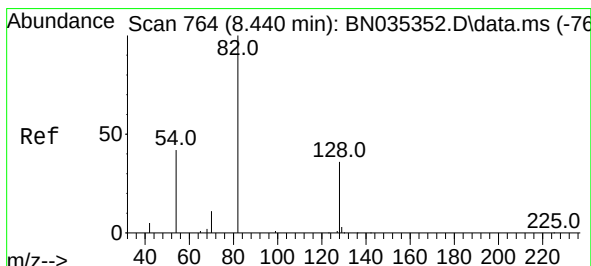
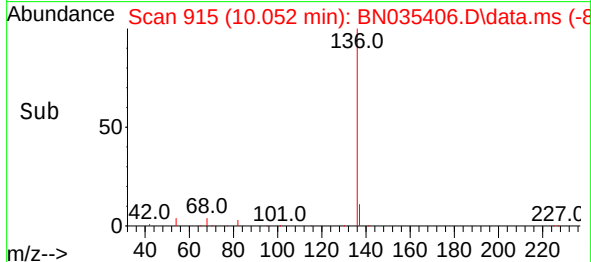
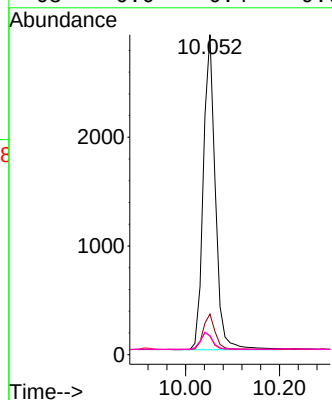
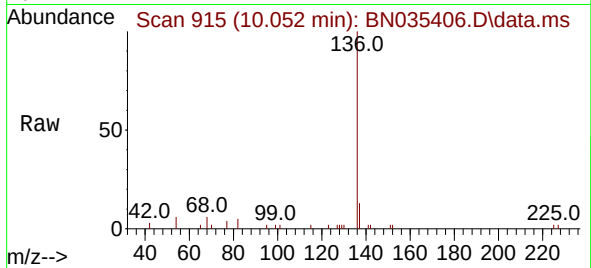




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.052 min Scan# 915  
Delta R.T. 0.000 min  
Lab File: BN035406.D  
Acq: 03 Dec 2024 16:35

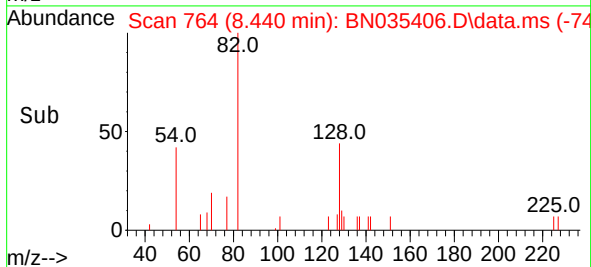
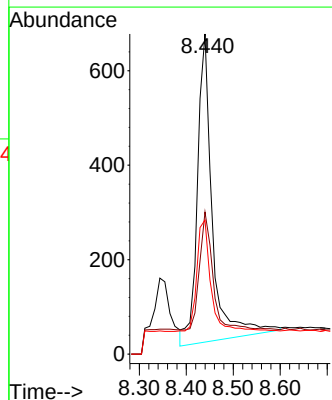
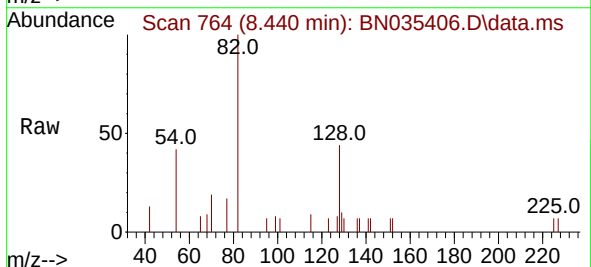
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

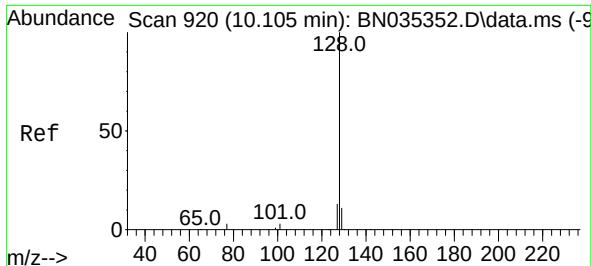
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 136   | Resp: | 5135 |
| Ion Ratio | Lower | Upper |      |
| 136       | 100   |       |      |
| 137       | 12.7  | 10.2  | 15.2 |
| 54        | 5.8   | 6.1   | 9.1# |
| 68        | 6.0   | 6.4   | 9.6# |



#8  
Nitrobenzene-d5  
Concen: 0.462 ng  
RT: 8.440 min Scan# 764  
Delta R.T. -0.000 min  
Lab File: BN035406.D  
Acq: 03 Dec 2024 16:35

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 82    | Resp: | 1450 |
| Ion Ratio | Lower | Upper |      |
| 82        | 100   |       |      |
| 128       | 44.4  | 33.4  | 50.0 |
| 54        | 41.9  | 36.7  | 55.1 |

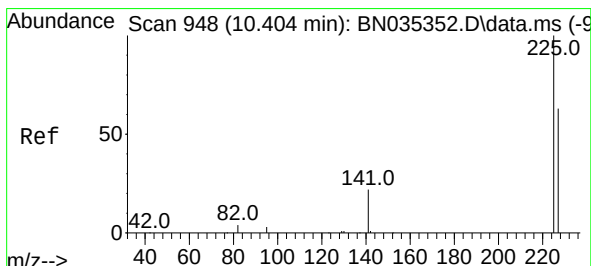
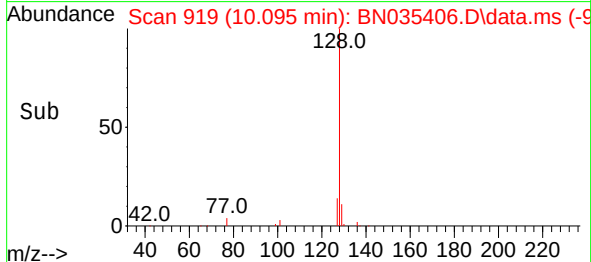
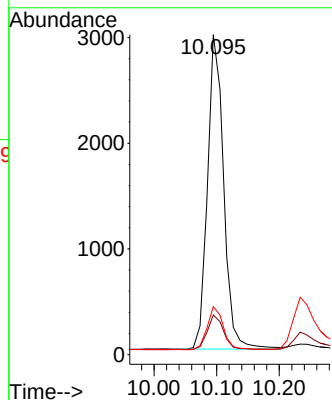
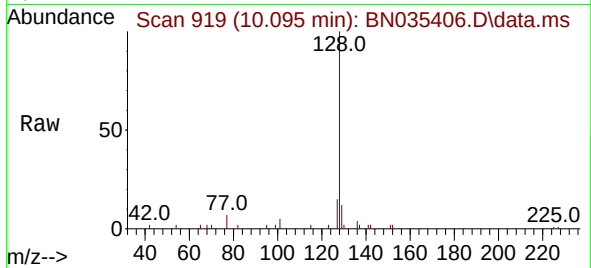




#9  
Naphthalene  
Concen: 0.393 ng  
RT: 10.095 min Scan# 919  
Delta R.T. -0.011 min  
Lab File: BN035406.D  
Acq: 03 Dec 2024 16:35

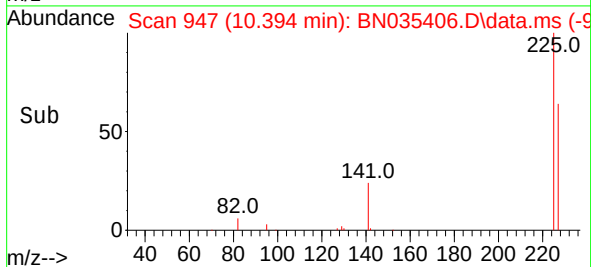
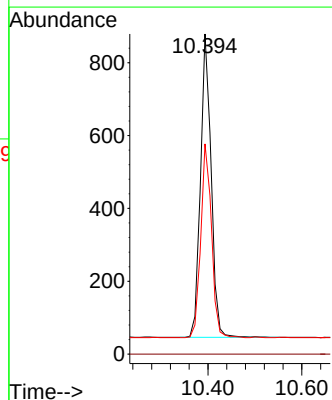
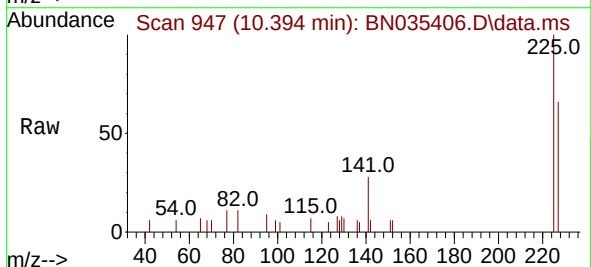
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

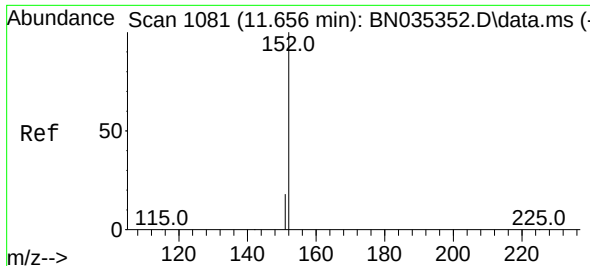
Tgt Ion:128 Resp: 5329  
Ion Ratio Lower Upper  
128 100  
129 12.4 9.8 14.6  
127 15.0 11.4 17.2



#10  
Hexachlorobutadiene  
Concen: 0.419 ng  
RT: 10.394 min Scan# 947  
Delta R.T. -0.011 min  
Lab File: BN035406.D  
Acq: 03 Dec 2024 16:35

Tgt Ion:225 Resp: 1309  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 64.6 51.3 76.9

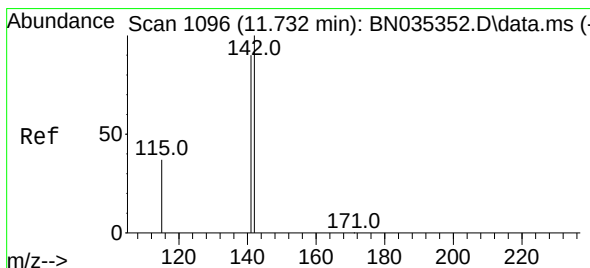
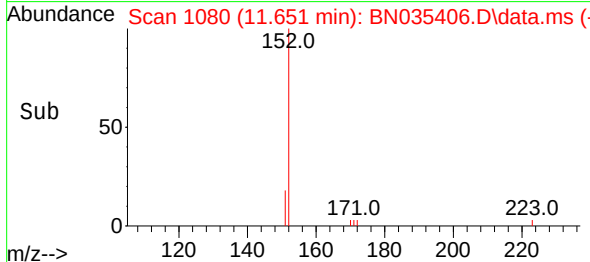
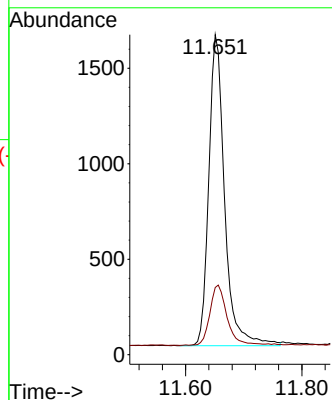
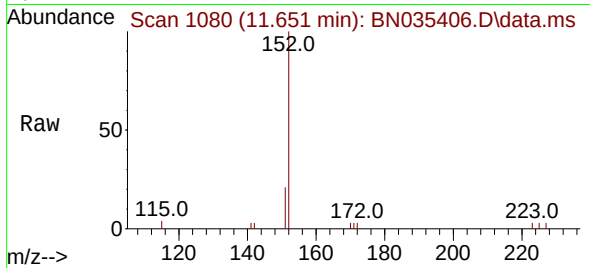




#11  
2-Methylnaphthalene-d10  
Concen: 0.384 ng  
RT: 11.651 min Scan# 1080  
Delta R.T. -0.005 min  
Lab File: BN035406.D  
Acq: 03 Dec 2024 16:35

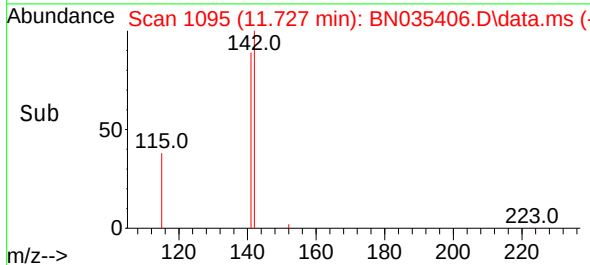
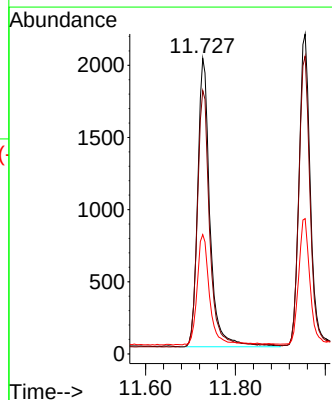
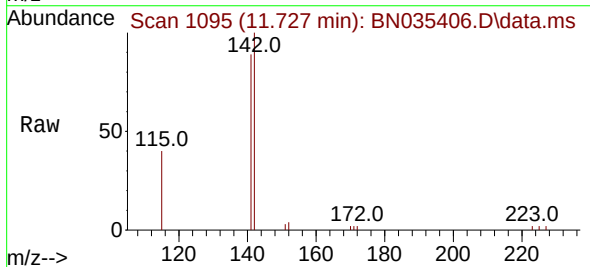
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

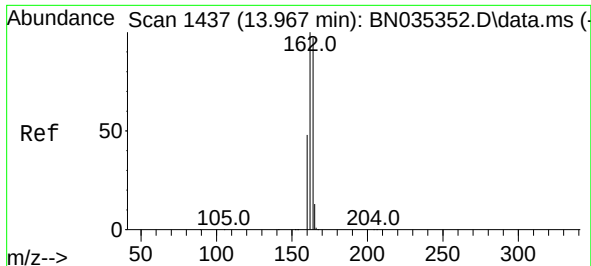
Tgt Ion:152 Resp: 3083  
Ion Ratio Lower Upper  
152 100  
151 21.4 16.6 25.0



#12  
2-Methylnaphthalene  
Concen: 0.390 ng  
RT: 11.727 min Scan# 1095  
Delta R.T. -0.005 min  
Lab File: BN035406.D  
Acq: 03 Dec 2024 16:35

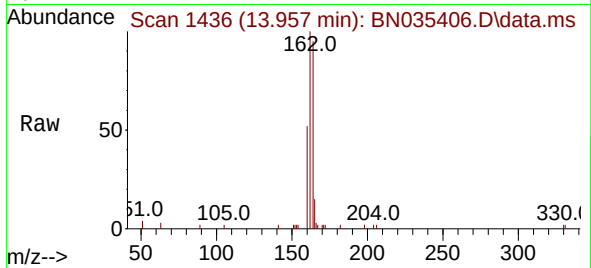
Tgt Ion:142 Resp: 3781  
Ion Ratio Lower Upper  
142 100  
141 89.1 72.2 108.4  
115 40.4 31.4 47.0



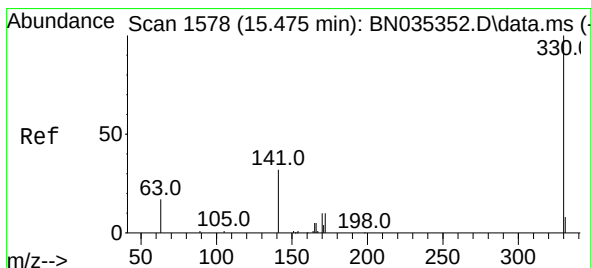
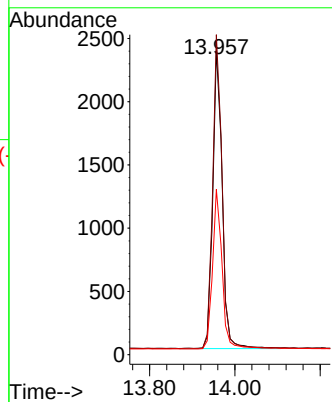
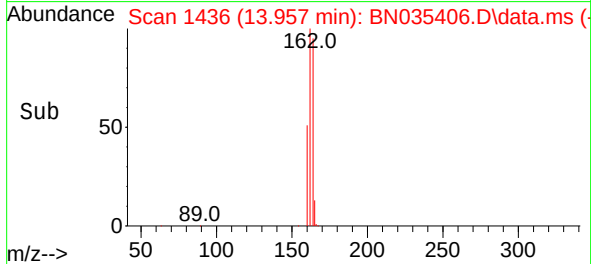


#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.957 min Scan# 1437  
Delta R.T. -0.011 min  
Lab File: BN035406.D  
Acq: 03 Dec 2024 16:35

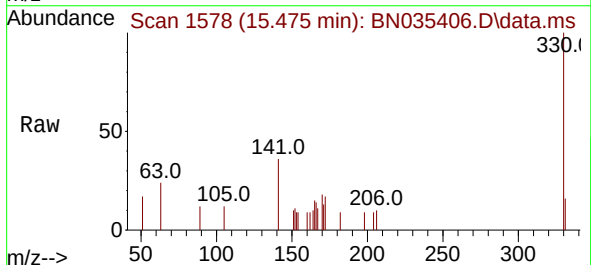
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4



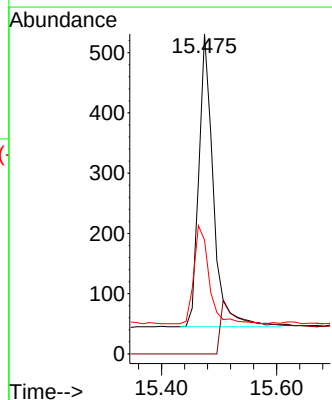
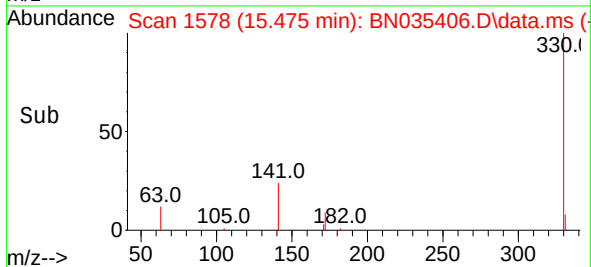
Tgt Ion:164 Resp: 3625  
Ion Ratio Lower Upper  
164 100  
162 105.2 82.2 123.2  
160 54.3 40.1 60.1



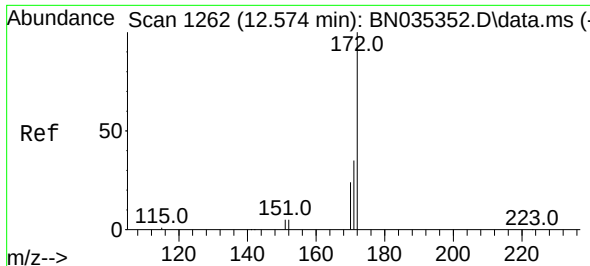
#14  
2,4,6-Tribromophenol  
Concen: 0.356 ng  
RT: 15.475 min Scan# 1578  
Delta R.T. -0.000 min  
Lab File: BN035406.D  
Acq: 03 Dec 2024 16:35



Tgt Ion:330 Resp: 916  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 34.5 26.6 40.0







#15

2-Fluorobiphenyl

Concen: 0.407 ng

RT: 12.569 min Scan# 1409

Delta R.T. -0.005 min

Lab File: BN035406.D

Acq: 03 Dec 2024 16:35

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

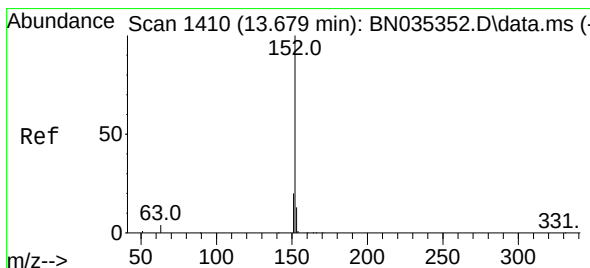
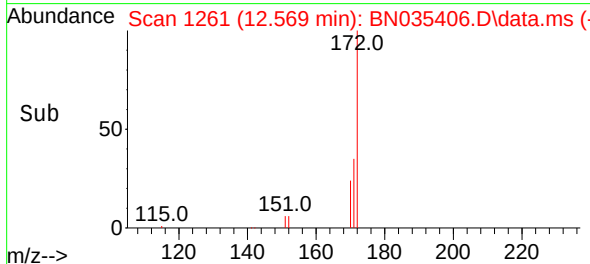
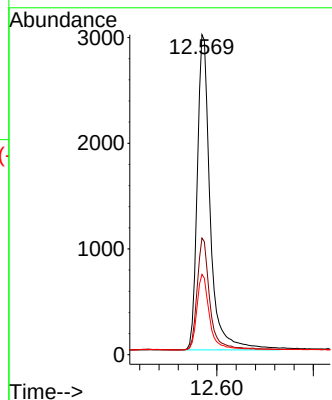
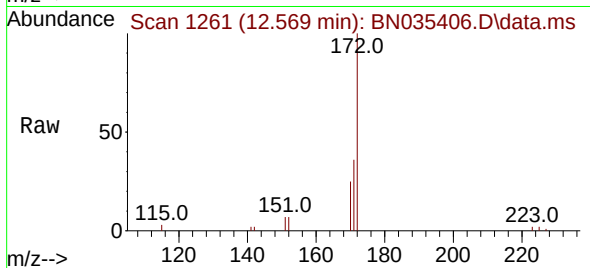
Tgt Ion:172 Resp: 5574

Ion Ratio Lower Upper

172 100

171 36.4 29.0 43.4

170 25.1 19.8 29.8



#16

Acenaphthylene

Concen: 0.387 ng

RT: 13.668 min Scan# 1409

Delta R.T. -0.011 min

Lab File: BN035406.D

Acq: 03 Dec 2024 16:35

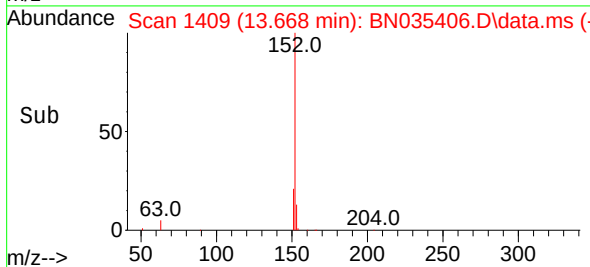
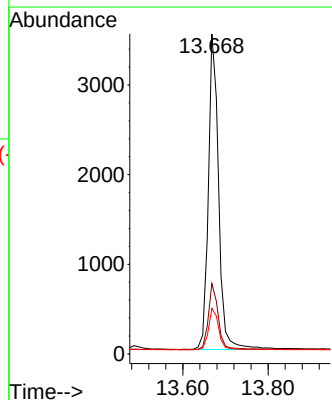
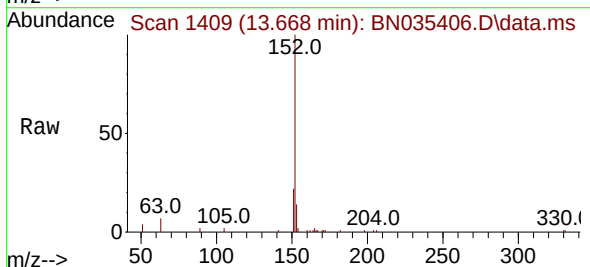
Tgt Ion:152 Resp: 5887

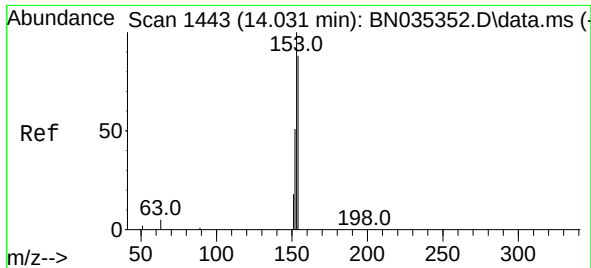
Ion Ratio Lower Upper

152 100

151 20.2 16.2 24.2

153 13.2 10.4 15.6

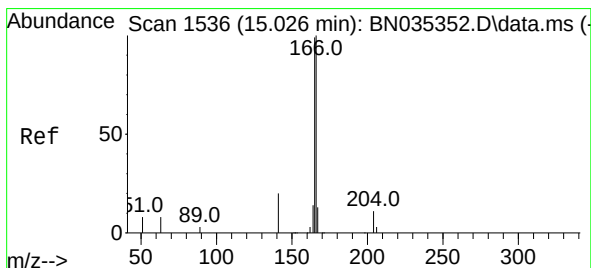
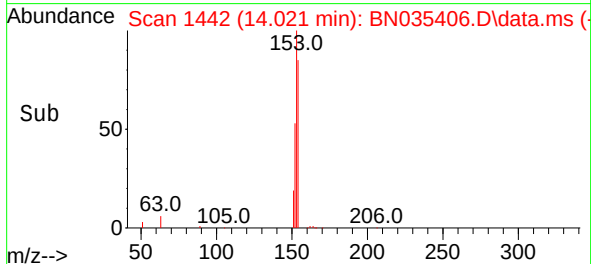
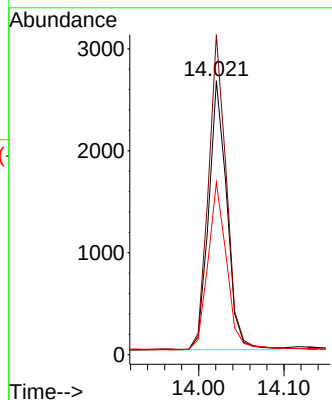
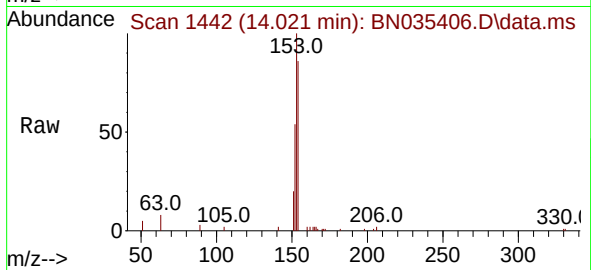




#17  
Acenaphthene  
Concen: 0.387 ng  
RT: 14.021 min Scan# 1442  
Delta R.T. -0.011 min  
Lab File: BN035406.D  
Acq: 03 Dec 2024 16:35

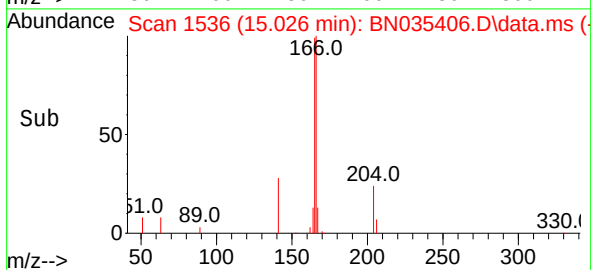
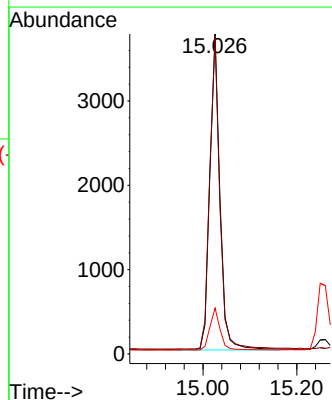
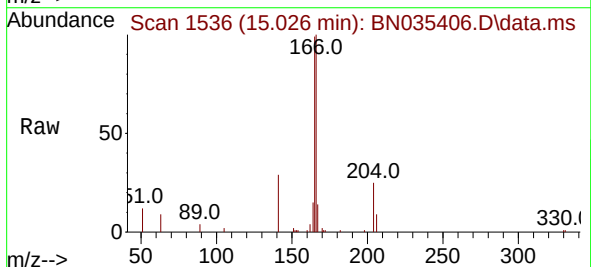
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

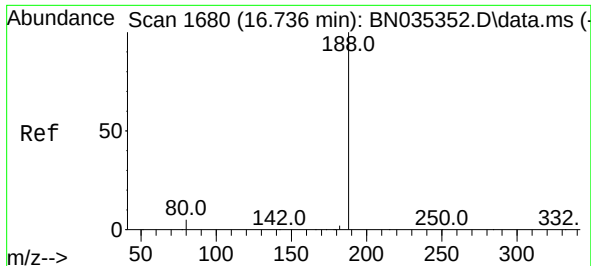
Tgt Ion:154 Resp: 3907  
Ion Ratio Lower Upper  
154 100  
153 117.9 92.6 139.0  
152 63.5 49.0 73.6



#18  
Fluorene  
Concen: 0.387 ng  
RT: 15.026 min Scan# 1536  
Delta R.T. 0.000 min  
Lab File: BN035406.D  
Acq: 03 Dec 2024 16:35

Tgt Ion:166 Resp: 5593  
Ion Ratio Lower Upper  
166 100  
165 98.8 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: BN035406.D

Acq: 03 Dec 2024 16:35

Instrument :

BNA\_N

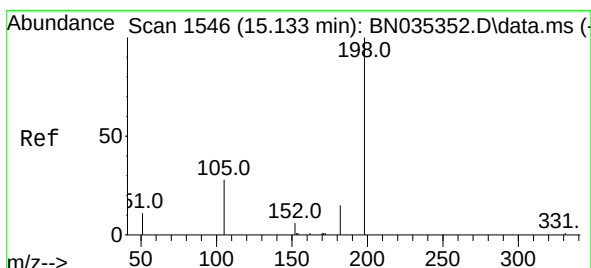
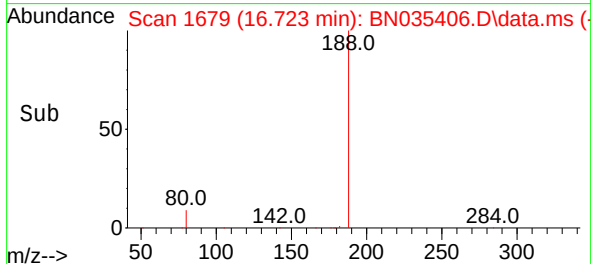
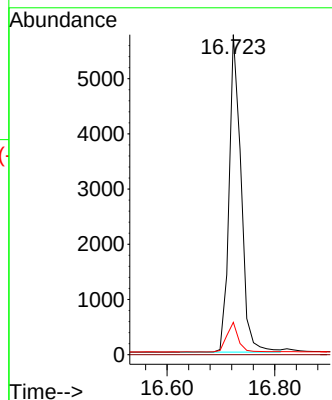
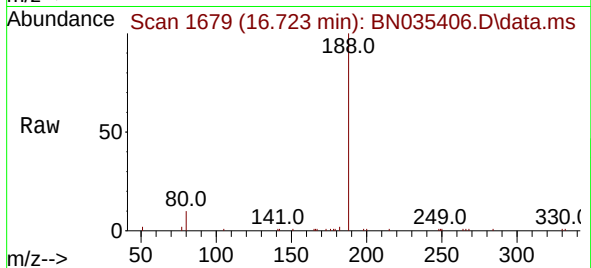
ClientSampleId :

SSTDCCC0.4

Tgt Ion:188 Resp: 8862

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: 0.334 ng

RT: 15.133 min Scan# 1546

Delta R.T. -0.000 min

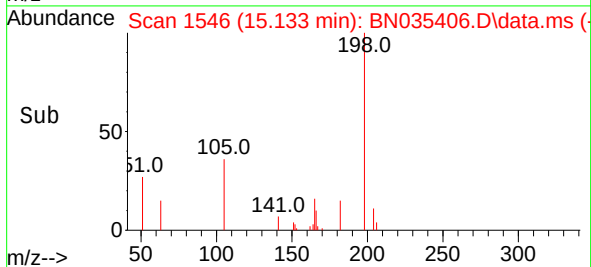
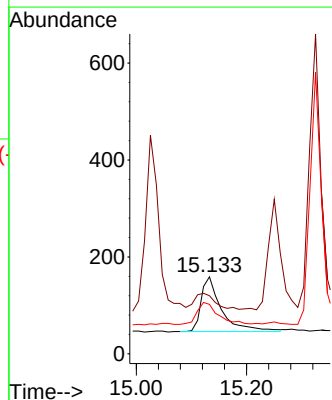
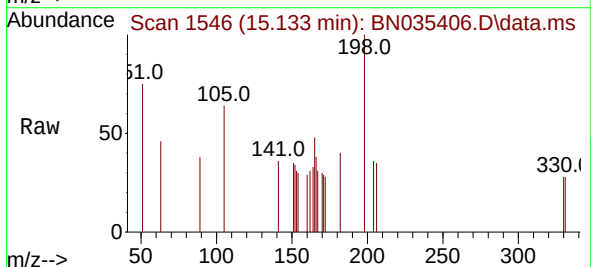
Lab File: BN035406.D

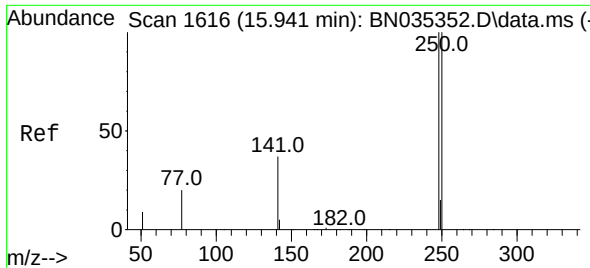
Acq: 03 Dec 2024 16:35

Tgt Ion:198 Resp: 291

Ion Ratio Lower Upper

|     |      |      |      |
|-----|------|------|------|
| 198 | 100  |      |      |
| 51  | 75.5 | 46.5 | 69.7 |
| 105 | 64.2 | 45.3 | 67.9 |

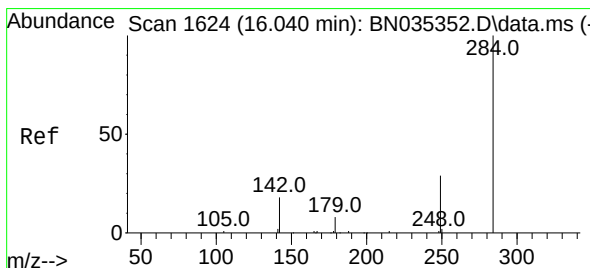
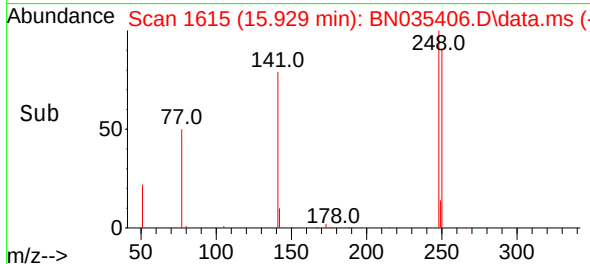
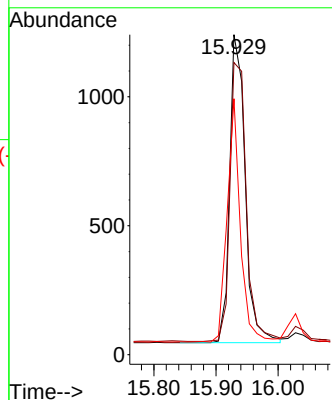
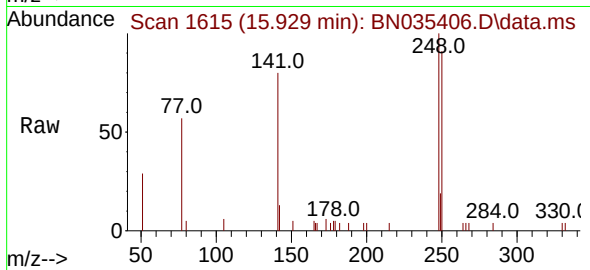




#21  
4-Bromophenyl-phenylether  
Concen: 0.397 ng  
RT: 15.929 min Scan# 1615  
Delta R.T. -0.012 min  
Lab File: BN035406.D  
Acq: 03 Dec 2024 16:35

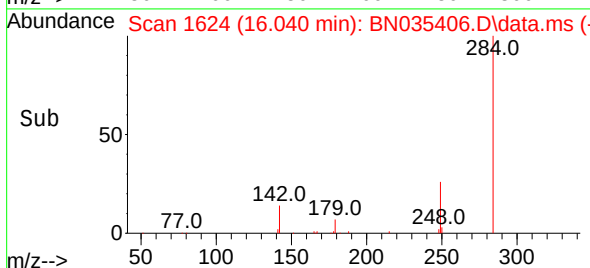
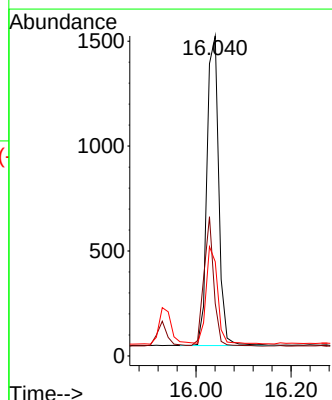
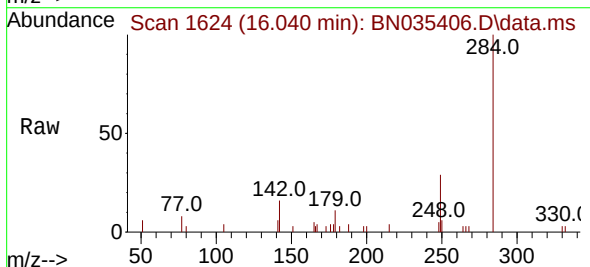
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

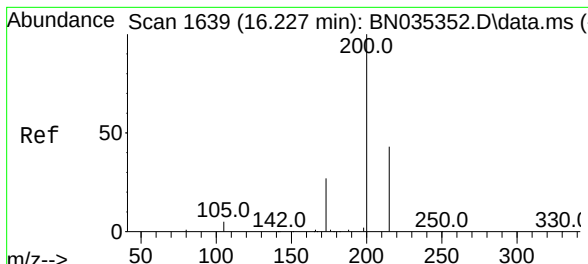
Tgt Ion:248 Resp: 2060  
Ion Ratio Lower Upper  
248 100  
250 91.3 80.6 120.8  
141 80.0 31.5 47.3#



#22  
Hexachlorobenzene  
Concen: 0.419 ng  
RT: 16.040 min Scan# 1624  
Delta R.T. -0.000 min  
Lab File: BN035406.D  
Acq: 03 Dec 2024 16:35

Tgt Ion:284 Resp: 2548  
Ion Ratio Lower Upper  
284 100  
142 35.4 26.7 40.1  
249 31.2 24.6 36.8

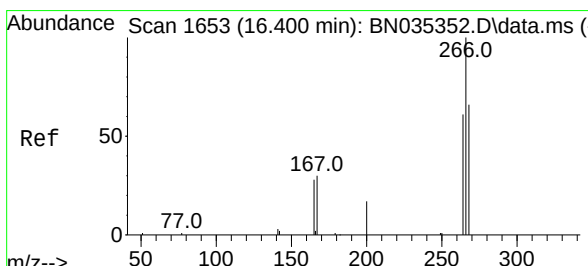
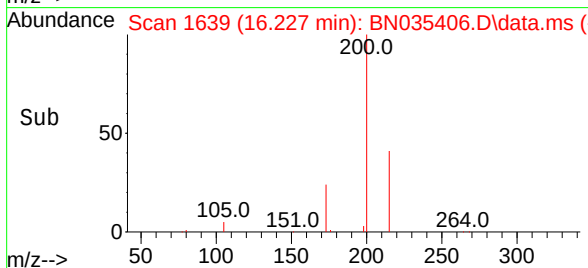
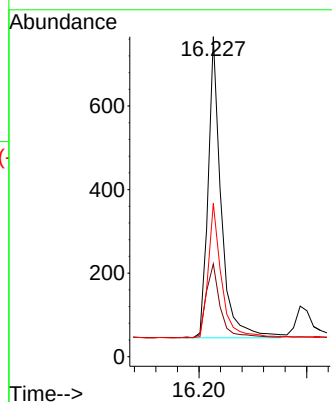
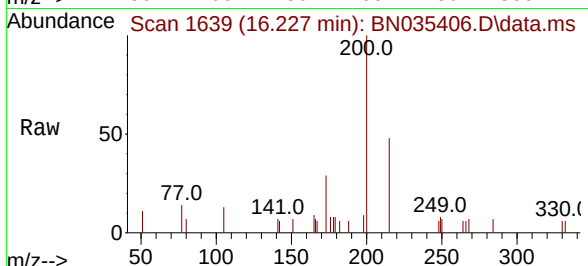




#23  
 Atrazine  
 Concen: 0.328 ng  
 RT: 16.227 min Scan# 1639  
 Delta R.T. 0.000 min  
 Lab File: BN035406.D  
 Acq: 03 Dec 2024 16:35

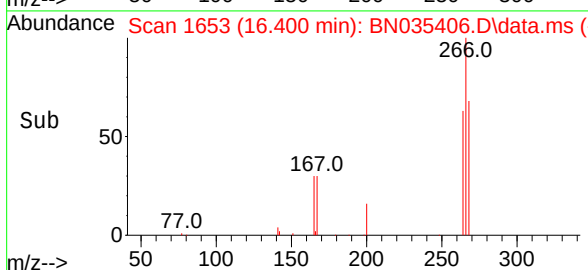
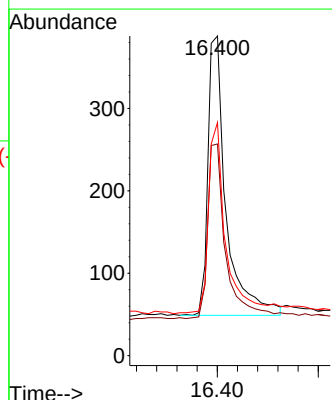
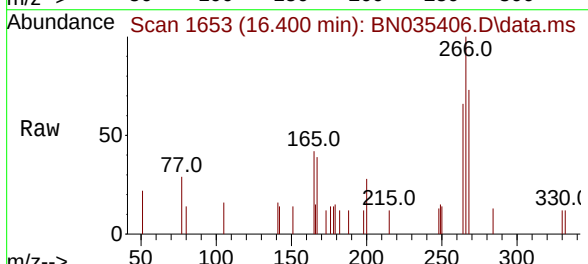
Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4

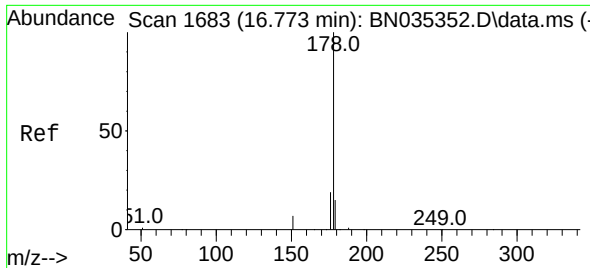
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 200   | Resp: | 1209 |
| Ion Ratio | Lower | Upper |      |
| 200       | 100   |       |      |
| 173       | 29.0  | 24.1  | 36.1 |
| 215       | 47.9  | 36.9  | 55.3 |



#24  
 Pentachlorophenol  
 Concen: 0.320 ng  
 RT: 16.400 min Scan# 1653  
 Delta R.T. 0.000 min  
 Lab File: BN035406.D  
 Acq: 03 Dec 2024 16:35

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 266   | Resp: | 848   |
| Ion Ratio | Lower | Upper |       |
| 266       | 100   |       |       |
| 264       | 63.0  | 42.3  | 63.5  |
| 268       | 67.1  | 43.3  | 64.9# |

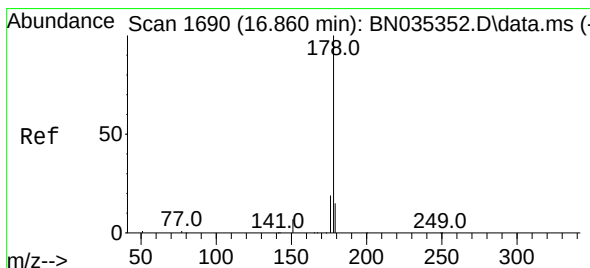
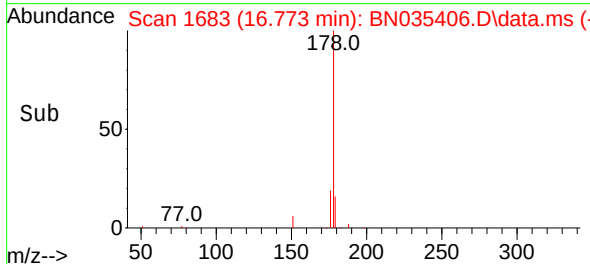
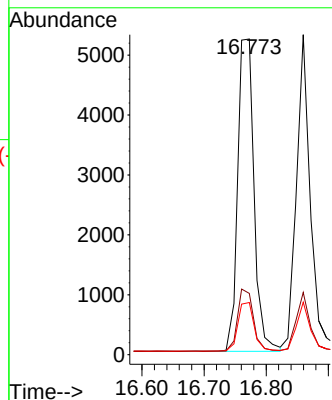
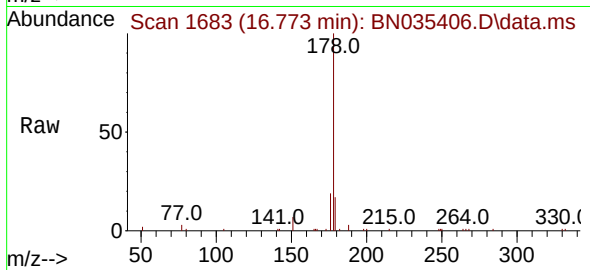




#25  
Phenanthrene  
Concen: 0.393 ng  
RT: 16.773 min Scan# 1683  
Delta R.T. -0.000 min  
Lab File: BN035406.D  
Acq: 03 Dec 2024 16:35

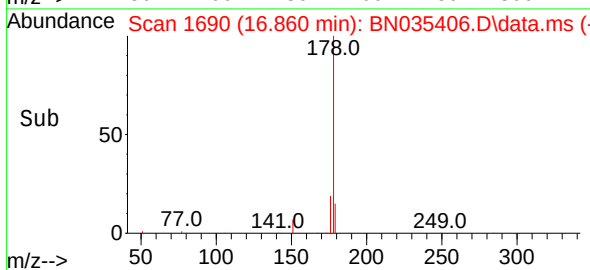
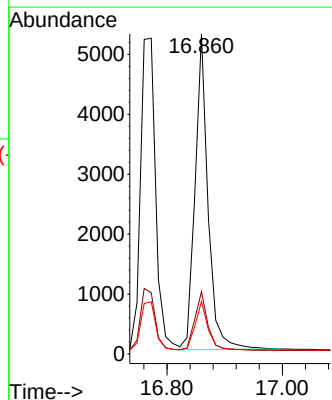
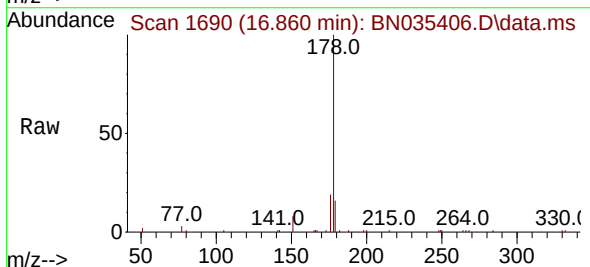
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

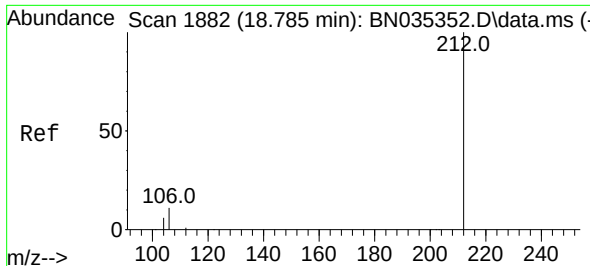
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 178   | Resp: | 9564 |
| Ion Ratio | Lower | Upper |      |
| 178       | 100   |       |      |
| 176       | 19.5  | 15.4  | 23.2 |
| 179       | 15.6  | 12.3  | 18.5 |



#26  
Anthracene  
Concen: 0.374 ng  
RT: 16.860 min Scan# 1690  
Delta R.T. -0.000 min  
Lab File: BN035406.D  
Acq: 03 Dec 2024 16:35

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 178   | Resp: | 8243 |
| Ion Ratio | Lower | Upper |      |
| 178       | 100   |       |      |
| 176       | 18.9  | 15.0  | 22.6 |
| 179       | 15.4  | 12.6  | 18.8 |

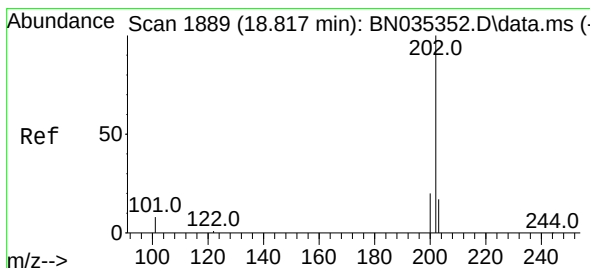
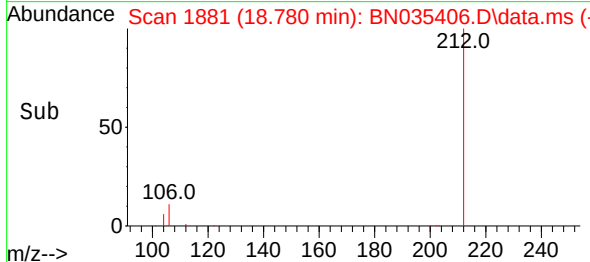
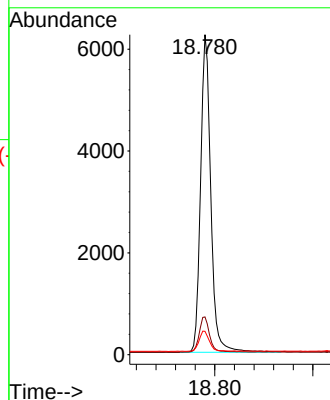
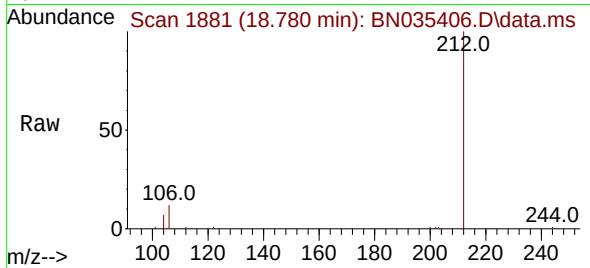




#27  
Fluoranthene-d10  
Concen: 0.359 ng  
RT: 18.780 min Scan# 1881  
Delta R.T. -0.005 min  
Lab File: BN035406.D  
Acq: 03 Dec 2024 16:35

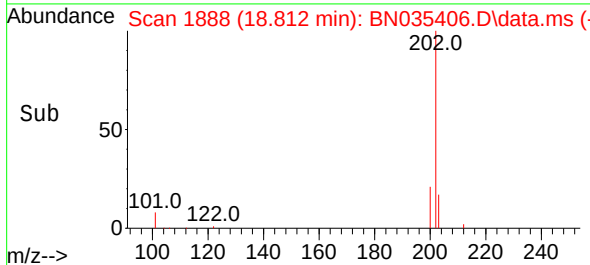
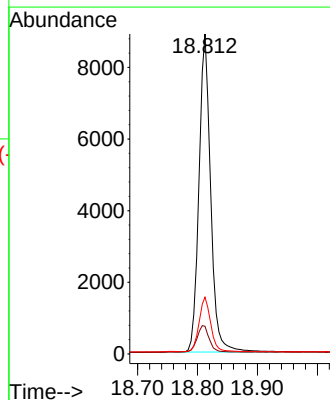
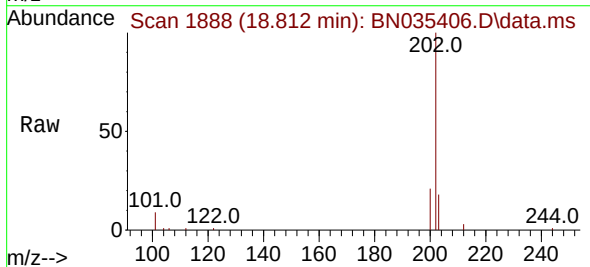
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

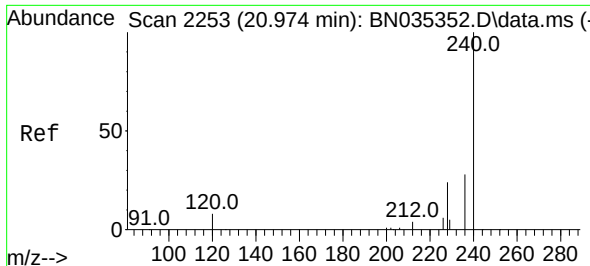
Tgt Ion:212 Resp: 9013  
Ion Ratio Lower Upper  
212 100  
106 11.3 9.2 13.8  
104 6.3 5.3 7.9



#28  
Fluoranthene  
Concen: 0.367 ng  
RT: 18.812 min Scan# 1888  
Delta R.T. -0.005 min  
Lab File: BN035406.D  
Acq: 03 Dec 2024 16:35

Tgt Ion:202 Resp: 12056  
Ion Ratio Lower Upper  
202 100  
101 8.9 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: BN035406.D

Acq: 03 Dec 2024 16:35

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

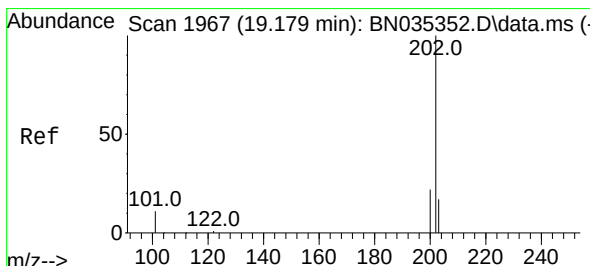
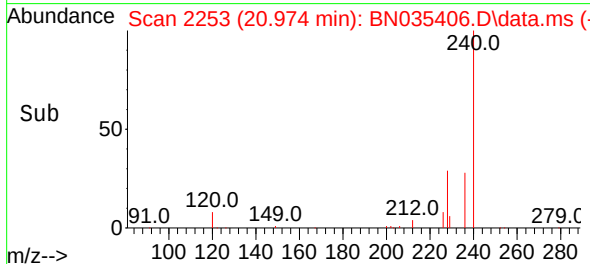
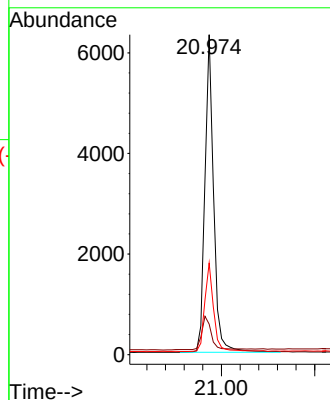
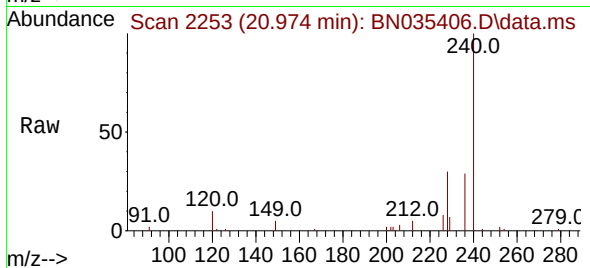
Tgt Ion:240 Resp: 8251

Ion Ratio Lower Upper

240 100

120 9.6 7.9 11.9

236 28.6 22.9 34.3



#30

Pyrene

Concen: 0.400 ng

RT: 19.179 min Scan# 1967

Delta R.T. 0.000 min

Lab File: BN035406.D

Acq: 03 Dec 2024 16:35

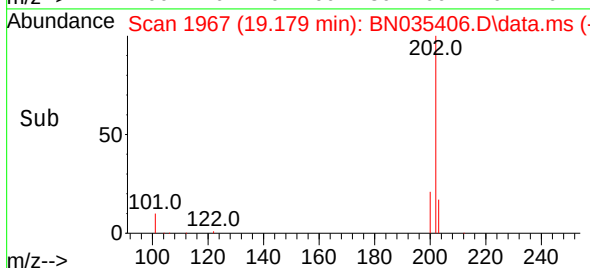
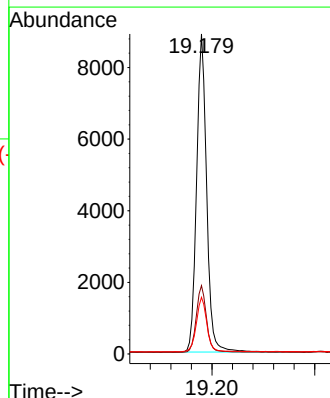
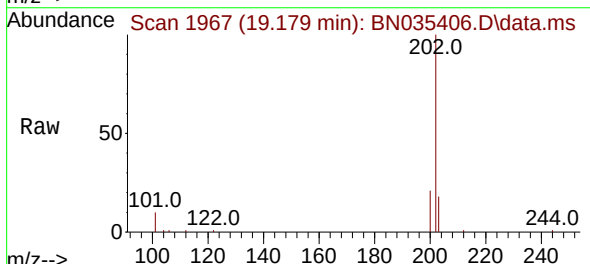
Tgt Ion:202 Resp: 12183

Ion Ratio Lower Upper

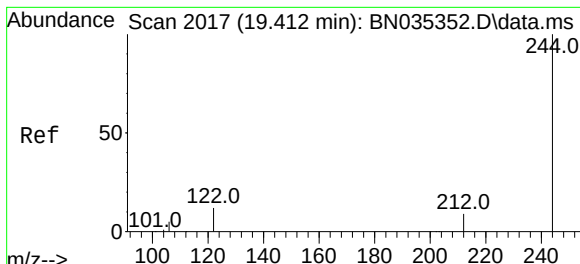
202 100

200 21.2 17.0 25.4

203 17.6 14.3 21.5



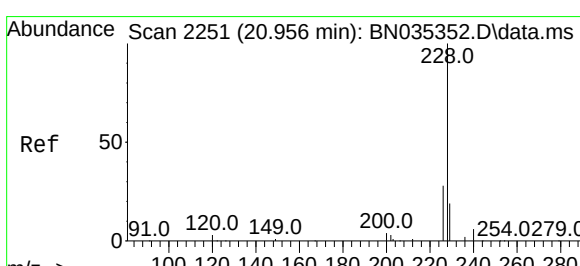
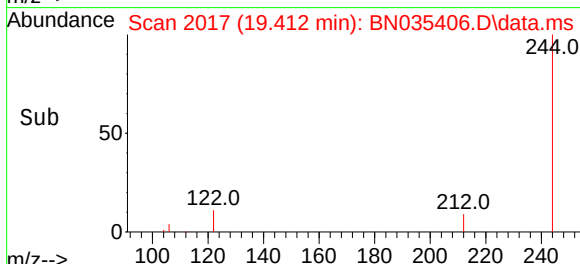
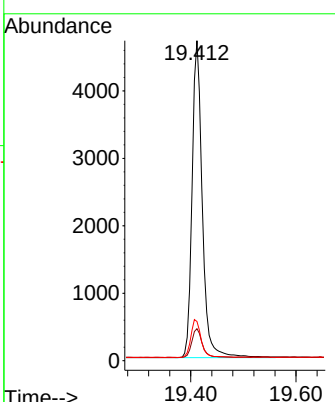
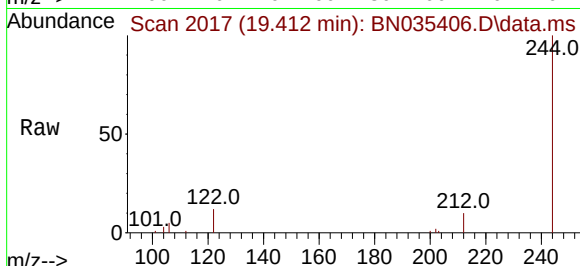




#31  
 Terphenyl-d14  
 Concen: 0.389 ng  
 RT: 19.412 min Scan# 2017  
 Delta R.T. -0.000 min  
 Lab File: BN035406.D  
 Acq: 03 Dec 2024 16:35

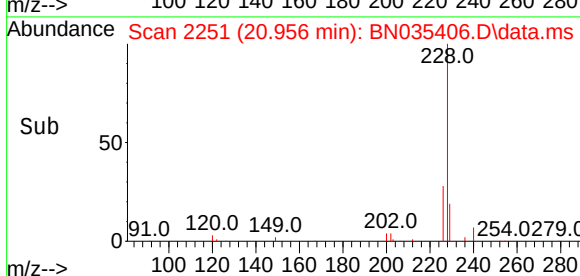
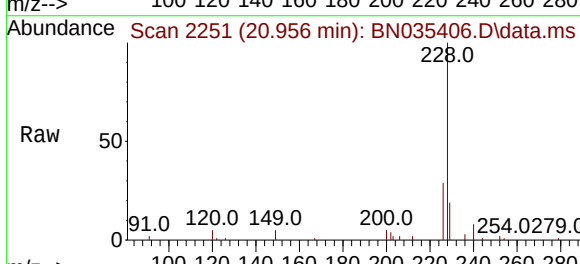
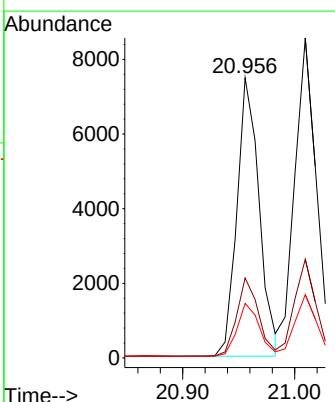
Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4

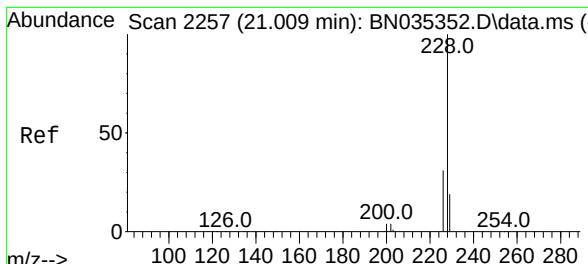
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 244   | Resp: | 6327 |
| Ion Ratio | Lower | Upper |      |
| 244       | 100   |       |      |
| 212       | 10.0  | 8.1   | 12.1 |
| 122       | 12.2  | 10.3  | 15.5 |



#32  
 Benzo(a)anthracene  
 Concen: 0.357 ng  
 RT: 20.956 min Scan# 2251  
 Delta R.T. 0.000 min  
 Lab File: BN035406.D  
 Acq: 03 Dec 2024 16:35

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 10317 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 28.6  | 22.5  | 33.7  |
| 229       | 19.5  | 15.8  | 23.8  |

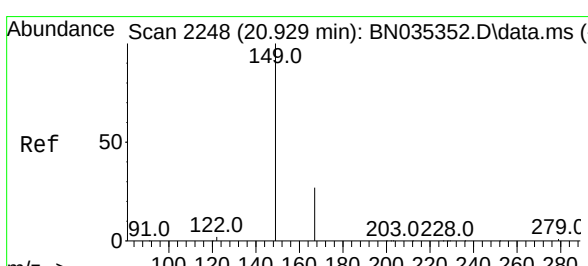
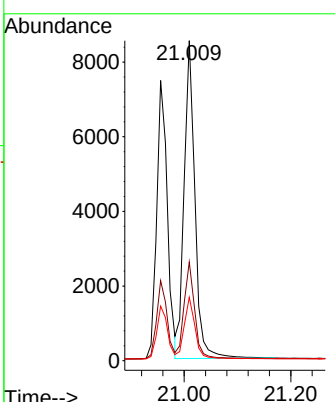
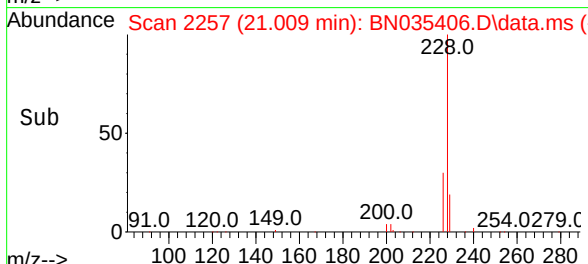
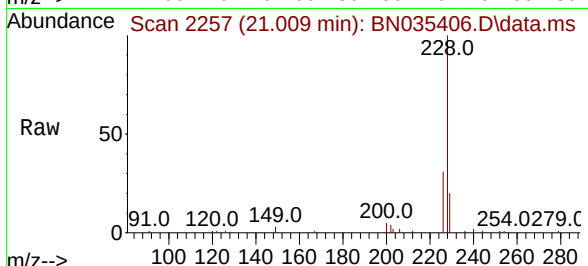




#33  
 Chrysene  
 Concen: 0.403 ng  
 RT: 21.009 min Scan# 21  
 Delta R.T. 0.000 min  
 Lab File: BN035406.D  
 Acq: 03 Dec 2024 16:35

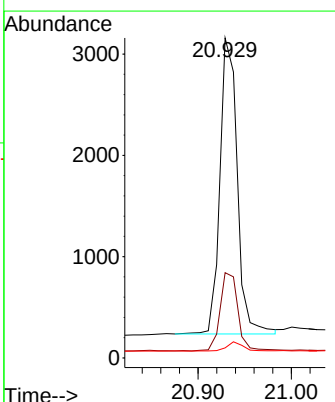
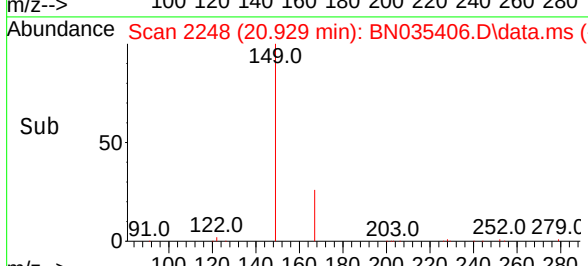
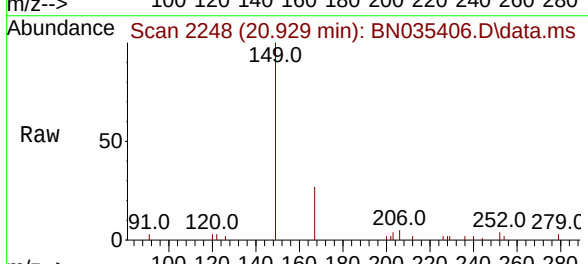
Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4

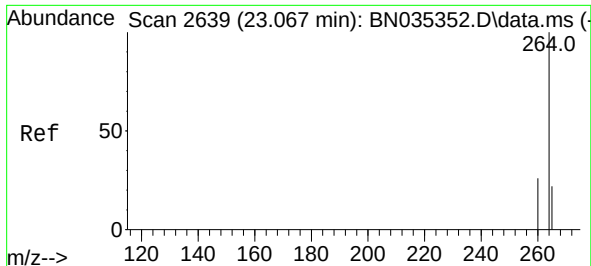
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 12005 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 30.9  | 24.6  | 37.0  |
| 229       | 19.8  | 15.9  | 23.9  |



#34  
 Bis(2-ethylhexyl)phthalate  
 Concen: 0.331 ng  
 RT: 20.929 min Scan# 2248  
 Delta R.T. 0.000 min  
 Lab File: BN035406.D  
 Acq: 03 Dec 2024 16:35

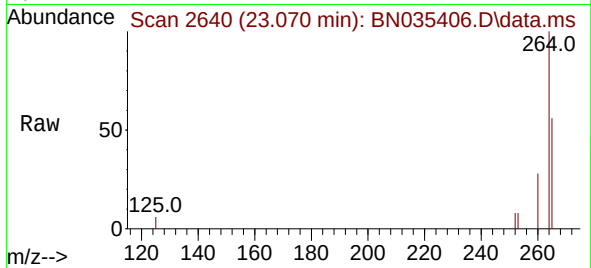
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 149   | Resp: | 3769 |
| Ion Ratio | Lower | Upper |      |
| 149       | 100   |       |      |
| 167       | 27.1  | 22.2  | 33.4 |
| 279       | 3.1   | 2.7   | 4.1  |



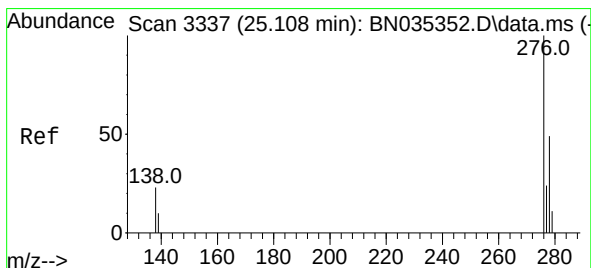
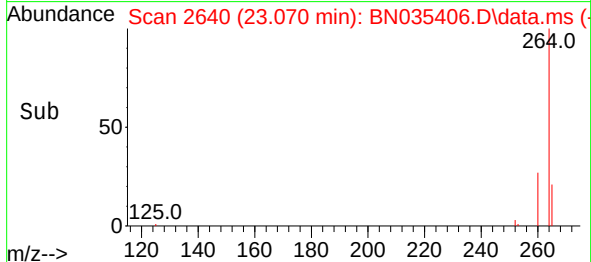
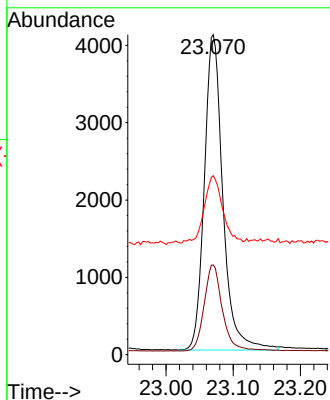


#35  
 Perylene-d12  
 Concen: 0.400 ng  
 RT: 23.070 min Scan# 2640  
 Delta R.T. 0.003 min  
 Lab File: BN035406.D  
 Acq: 03 Dec 2024 16:35

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4

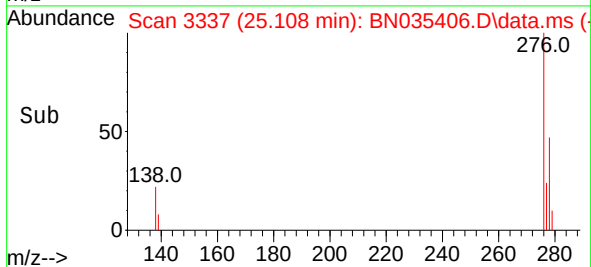
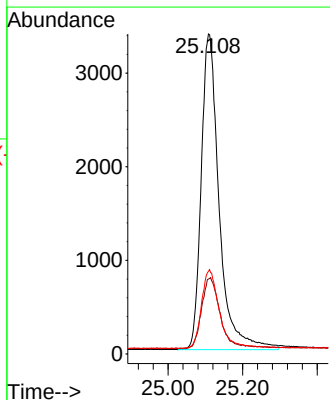
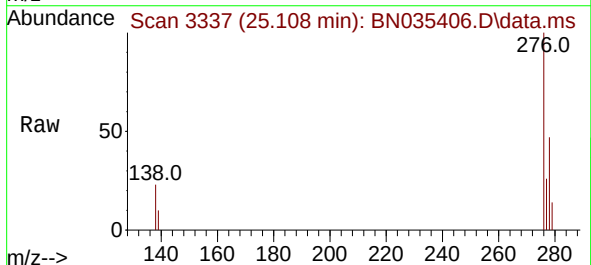


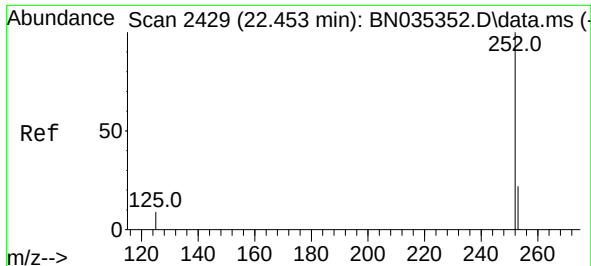
Tgt Ion:264 Resp: 7832  
 Ion Ratio Lower Upper  
 264 100  
 260 28.1 21.4 32.2  
 265 55.9 40.2 60.4



#36  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.368 ng  
 RT: 25.108 min Scan# 3337  
 Delta R.T. 0.000 min  
 Lab File: BN035406.D  
 Acq: 03 Dec 2024 16:35

Tgt Ion:276 Resp: 11257  
 Ion Ratio Lower Upper  
 276 100  
 138 22.5 19.4 29.0  
 277 24.3 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.390 ng

RT: 22.456 min Scan# 2430

Delta R.T. 0.003 min

Lab File: BN035406.D

Acq: 03 Dec 2024 16:35

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

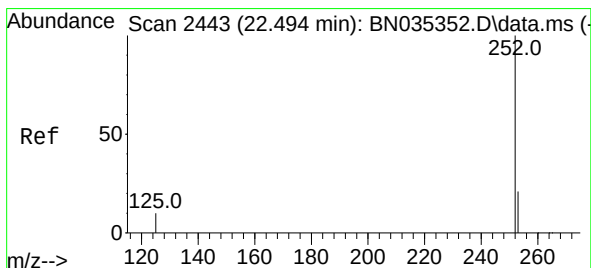
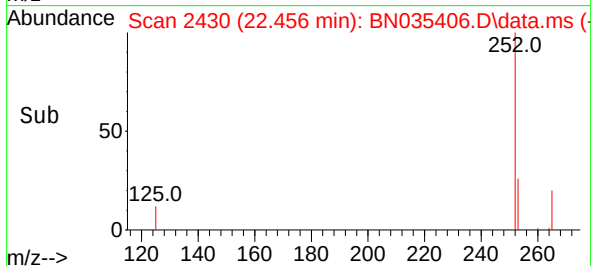
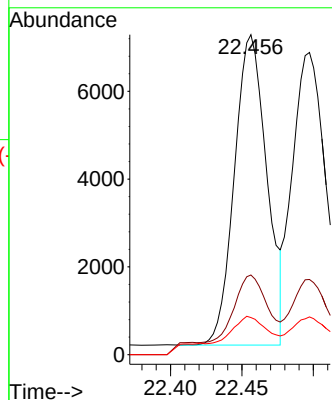
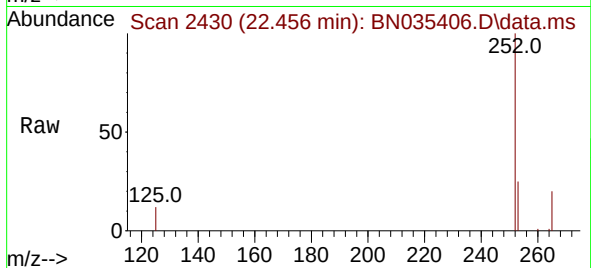
Tgt Ion:252 Resp: 11172

Ion Ratio Lower Upper

252 100

253 24.9 19.6 29.4

125 11.6 9.6 14.4



#38

Benzo(k)fluoranthene

Concen: 0.414 ng

RT: 22.497 min Scan# 2444

Delta R.T. 0.003 min

Lab File: BN035406.D

Acq: 03 Dec 2024 16:35

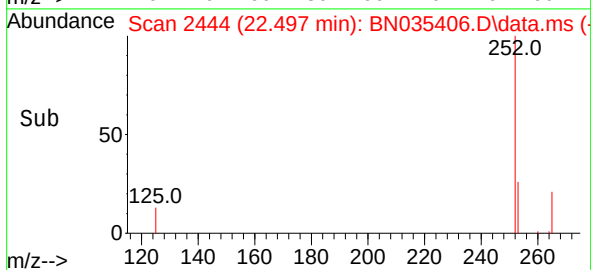
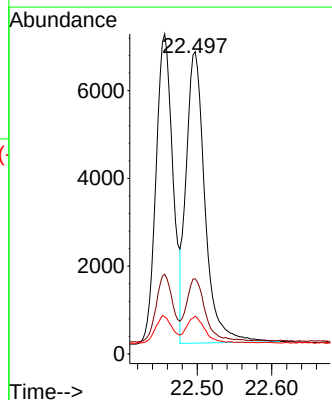
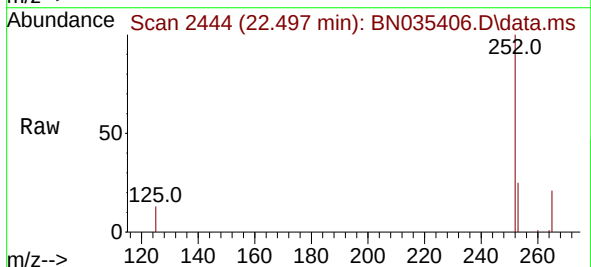
Tgt Ion:252 Resp: 11663

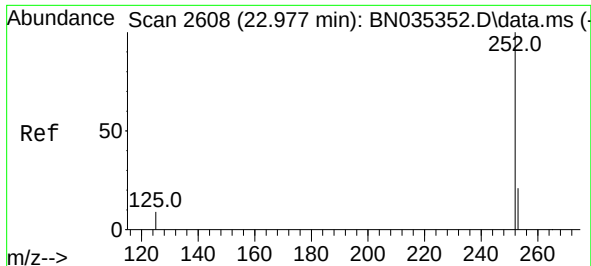
Ion Ratio Lower Upper

252 100

253 24.9 19.5 29.3

125 12.5 10.2 15.4





#39

Benzo(a)pyrene

Concen: 0.387 ng

RT: 22.980 min Scan# 2609

Delta R.T. 0.003 min

Lab File: BN035406.D

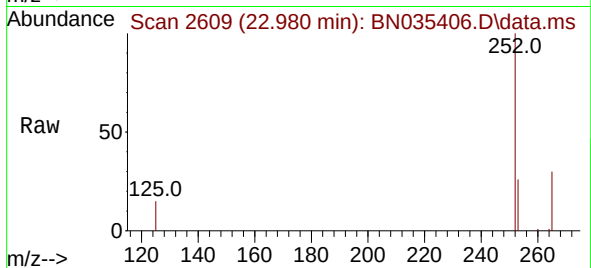
Acq: 03 Dec 2024 16:35

Instrument :

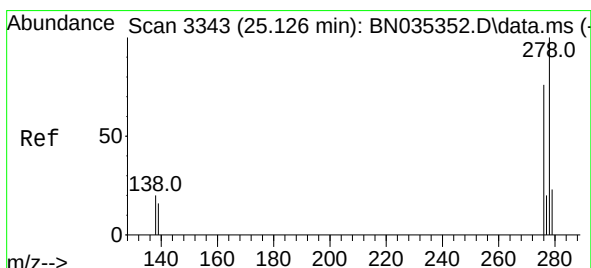
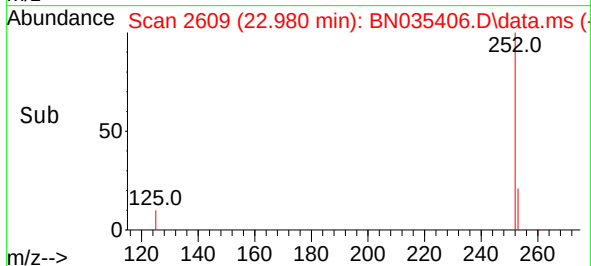
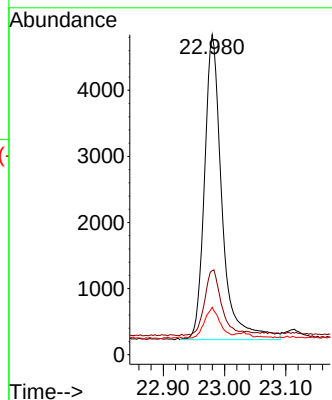
BNA\_N

ClientSampleId :

SSTDCCC0.4



|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 252   | Resp: | 9142 |
| Ion Ratio | Lower | Upper |      |
| 252       | 100   |       |      |
| 253       | 26.3  | 20.2  | 30.4 |
| 125       | 14.8  | 10.9  | 16.3 |



#40

Dibenzo(a,h)anthracene

Concen: 0.359 ng

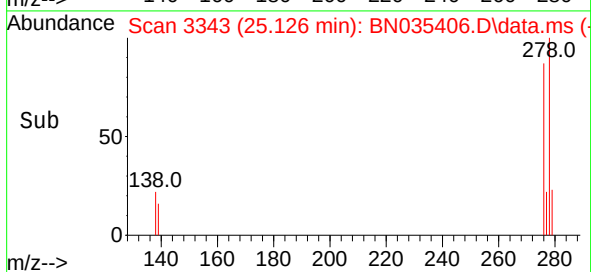
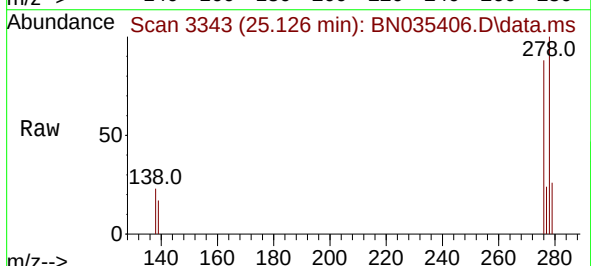
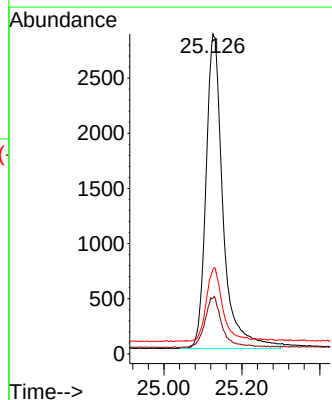
RT: 25.126 min Scan# 3343

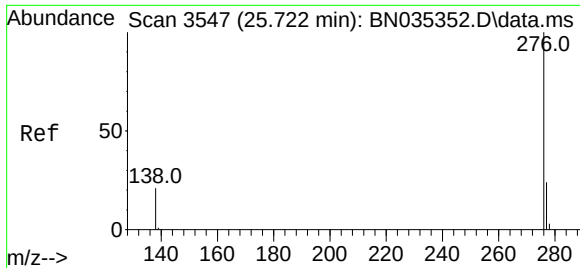
Delta R.T. -0.000 min

Lab File: BN035406.D

Acq: 03 Dec 2024 16:35

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 278   | Resp: | 8667 |
| Ion Ratio | Lower | Upper |      |
| 278       | 100   |       |      |
| 139       | 17.5  | 14.2  | 21.4 |
| 279       | 26.4  | 20.5  | 30.7 |





#41

Benzo(g,h,i)perylene

Concen: 0.383 ng

RT: 25.722 min Scan# 3

Delta R.T. 0.000 min

Lab File: BN035406.D

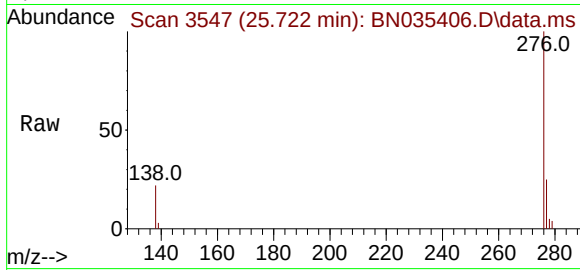
Acq: 03 Dec 2024 16:35

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4



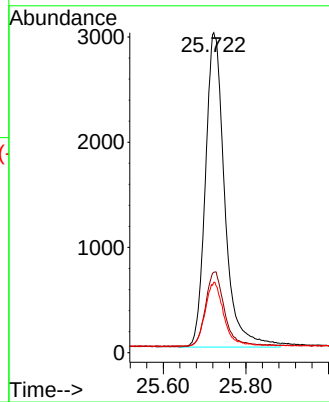
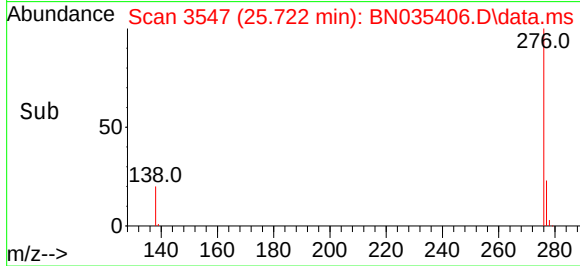
Tgt Ion:276 Resp: 9676

Ion Ratio Lower Upper

276 100

277 25.1 19.9 29.9

138 22.0 17.8 26.8



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN120424\  
Data File : BN035410.D  
Acq On : 03 Dec 2024 19:24  
Operator : RC/JU  
Sample : P5065-04  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP200-20241202

Quant Time: Dec 03 22:05:48 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

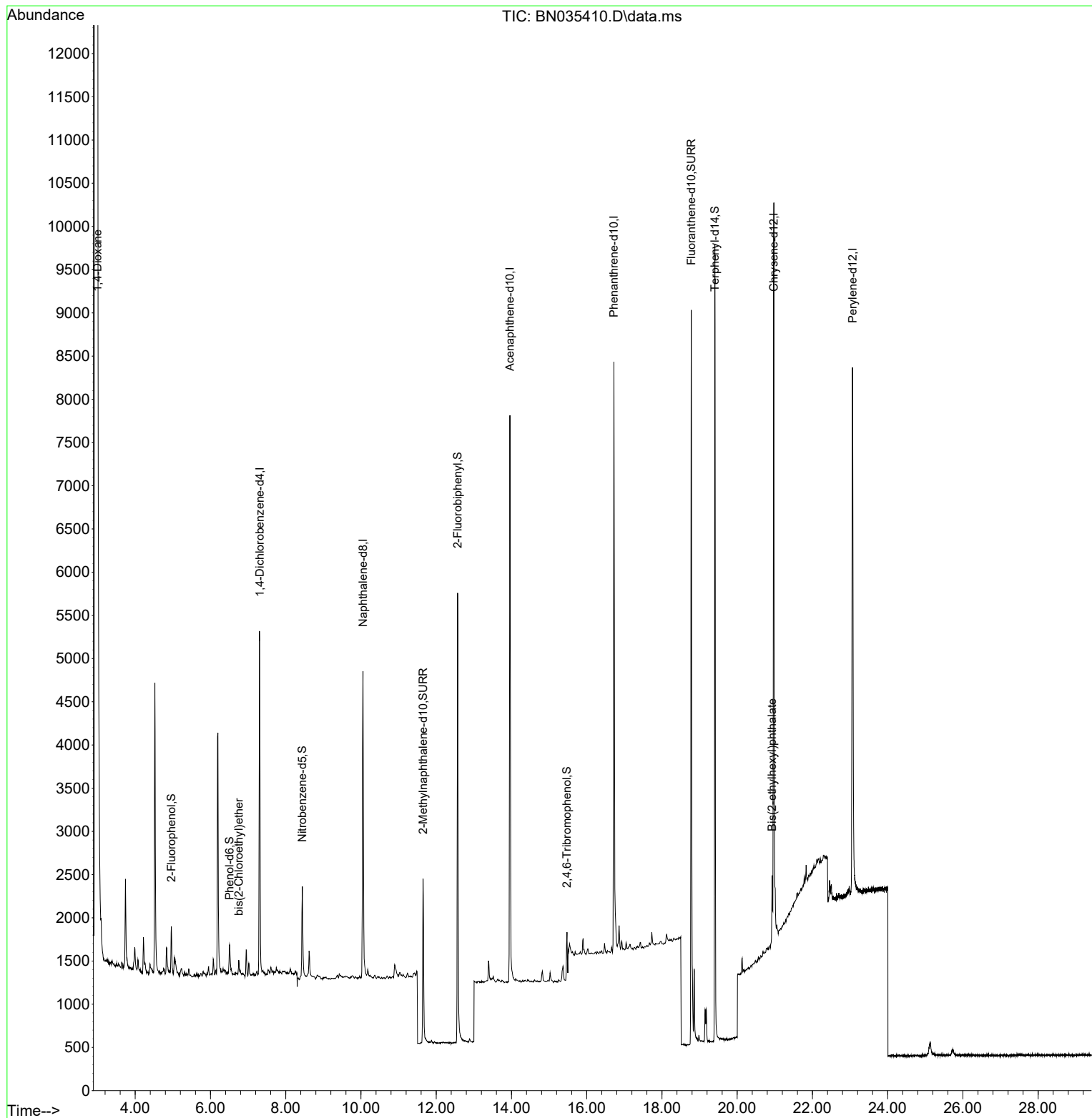
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.308  | 152  | 2075     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.052 | 136  | 5240     | 0.400 | ng    | # 0.00   |
| 13) Acenaphthene-d10          | 13.957 | 164  | 3772     | 0.400 | ng    | -0.01    |
| 19) Phenanthrene-d10          | 16.723 | 188  | 9570     | 0.400 | ng    | #-0.01   |
| 29) Chrysene-d12              | 20.974 | 240  | 8675     | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.064 | 264  | 8373     | 0.400 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 4.960  | 112  | 496      | 0.096 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.506  | 99   | 374      | 0.060 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.440  | 82   | 1256     | 0.392 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.651 | 152  | 2970     | 0.362 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.475 | 330  | 530      | 0.198 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.569 | 172  | 5211     | 0.365 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 18.780 | 212  | 10124    | 0.373 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.407 | 244  | 9247     | 0.540 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
| 2) 1,4-Dioxane                | 2.996  | 88   | 6354     | 3.203 | ng    | 98       |
| 6) bis(2-Chloroethyl)ether    | 6.752  | 93   | 129      | 0.025 | ng    | 94       |
| 34) Bis(2-ethylhexyl)phtha... | 20.929 | 149  | 831      | 0.069 | ng    | # 93     |

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

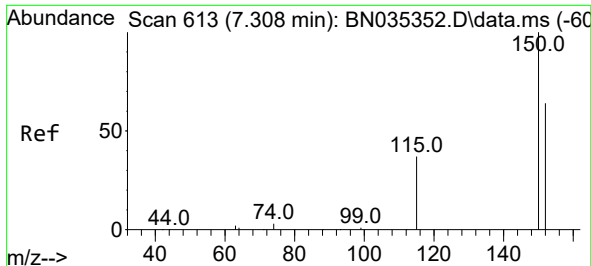
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN120424\  
Data File : BN035410.D  
Acq On : 03 Dec 2024 19:24  
Operator : RC/JU  
Sample : P5065-04  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP200-20241202

Quant Time: Dec 03 22:05:48 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

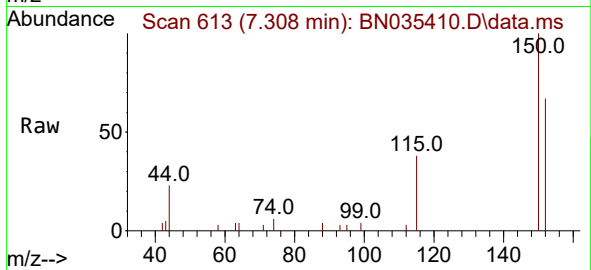




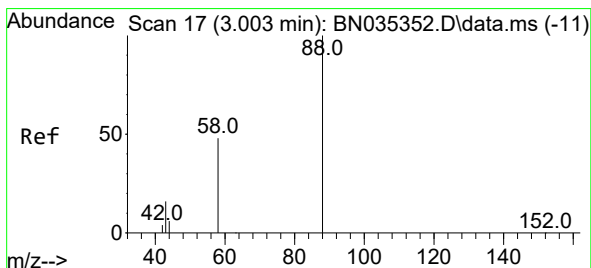
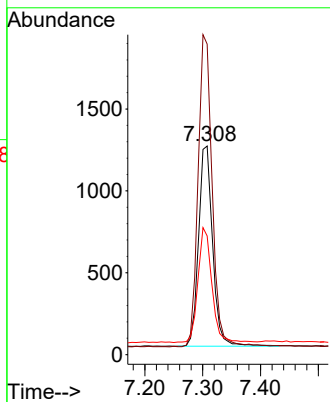
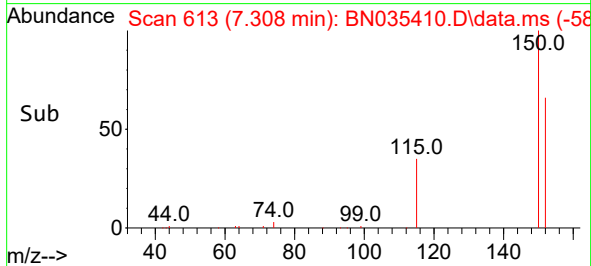


#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.308 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: BN035410.D  
Acq: 03 Dec 2024 19:24

Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP200-20241202

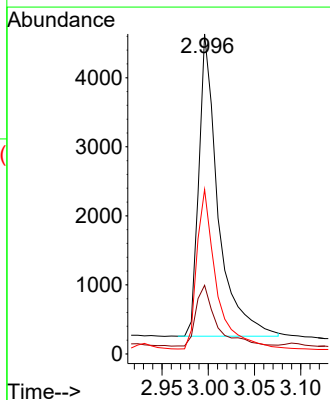
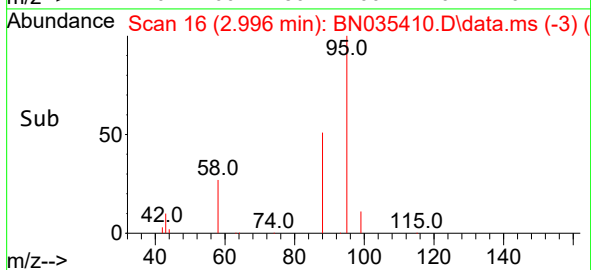
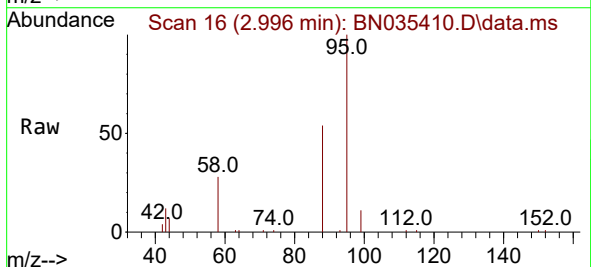


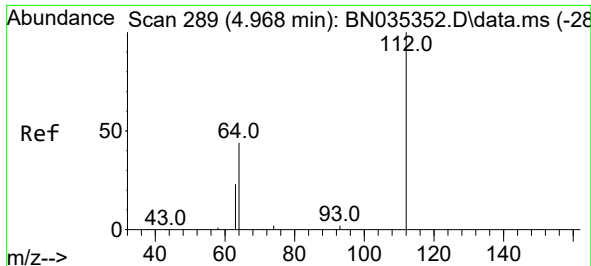
Tgt Ion:152 Resp: 2075  
Ion Ratio Lower Upper  
152 100  
150 148.8 124.0 186.0  
115 56.9 49.6 74.4



#2  
1,4-Dioxane  
Concen: 3.203 ng  
RT: 2.996 min Scan# 16  
Delta R.T. -0.007 min  
Lab File: BN035410.D  
Acq: 03 Dec 2024 19:24

Tgt Ion: 88 Resp: 6354  
Ion Ratio Lower Upper  
88 100  
43 21.5 17.2 25.8  
58 53.3 44.5 66.7

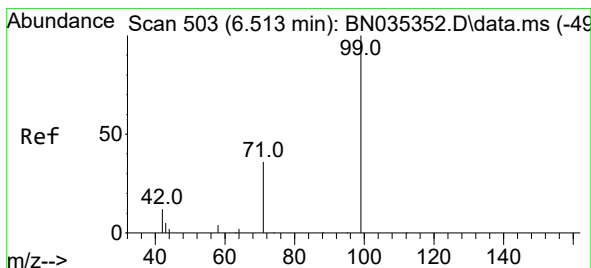
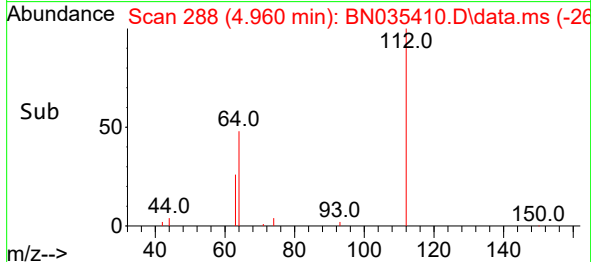
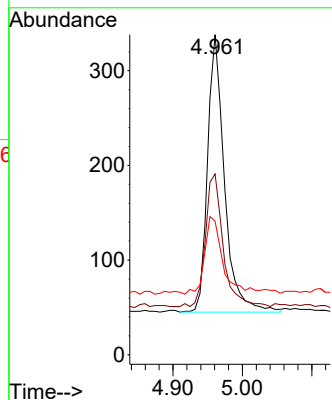
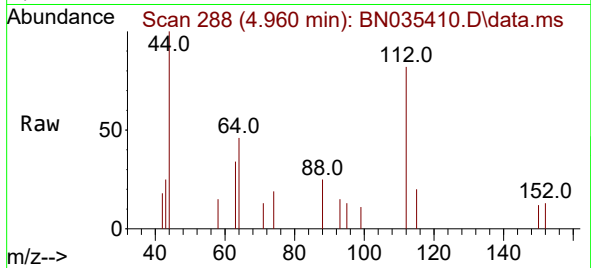




#4  
2-Fluorophenol  
Concen: 0.096 ng  
RT: 4.960 min Scan# 21  
Delta R.T. -0.007 min  
Lab File: BN035410.D  
Acq: 03 Dec 2024 19:24

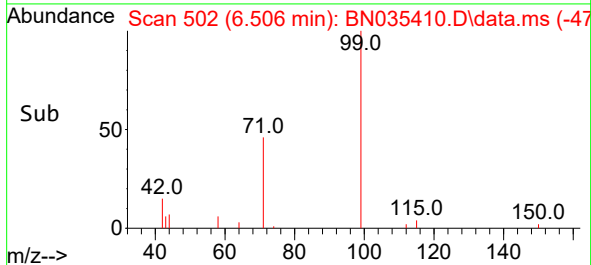
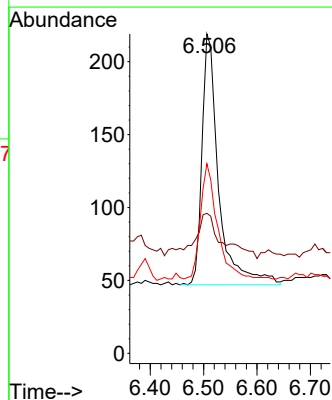
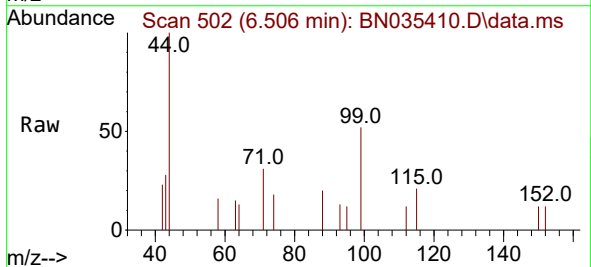
Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP200-20241202

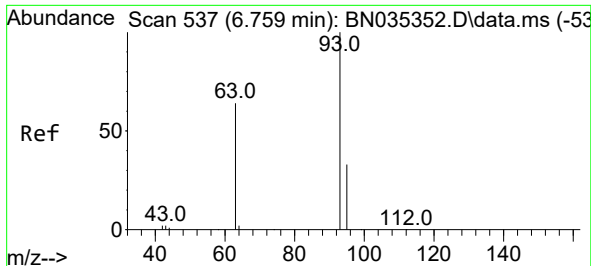
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 112   | Resp: | 496  |
| Ion Ratio | Lower | Upper |      |
| 112       | 100   |       |      |
| 64        | 50.4  | 39.8  | 59.8 |
| 63        | 30.0  | 21.0  | 31.6 |



#5  
Phenol-d6  
Concen: 0.060 ng  
RT: 6.506 min Scan# 502  
Delta R.T. -0.007 min  
Lab File: BN035410.D  
Acq: 03 Dec 2024 19:24

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 99    | Resp: | 374   |
| Ion Ratio | Lower | Upper |       |
| 99        | 100   |       |       |
| 42        | 27.8  | 11.4  | 17.2# |
| 71        | 46.8  | 29.3  | 43.9# |

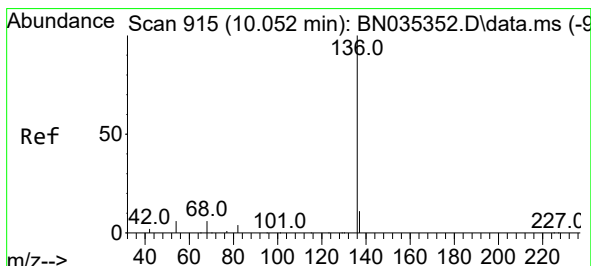
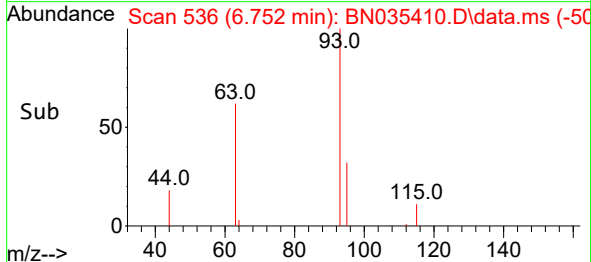
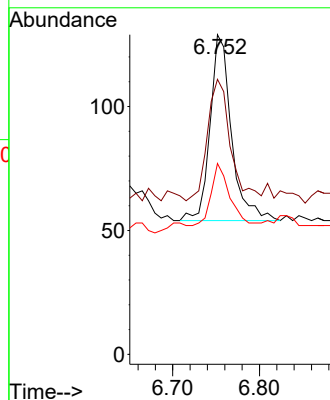
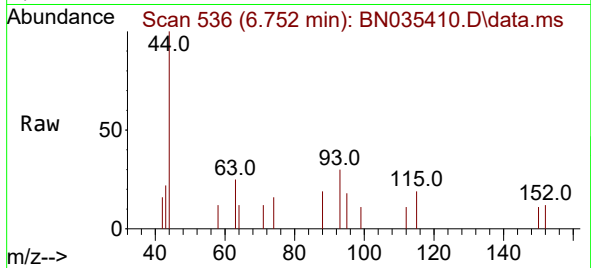




#6  
bis(2-Chloroethyl)ether  
Concen: 0.025 ng  
RT: 6.752 min Scan# 51  
Delta R.T. -0.007 min  
Lab File: BN035410.D  
Acq: 03 Dec 2024 19:24

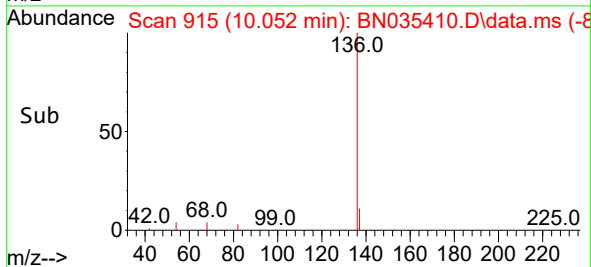
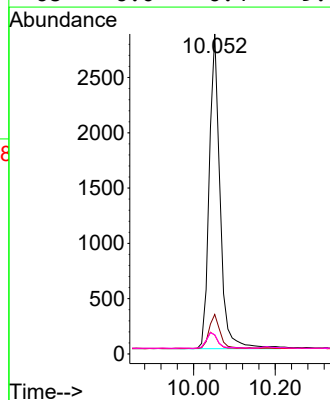
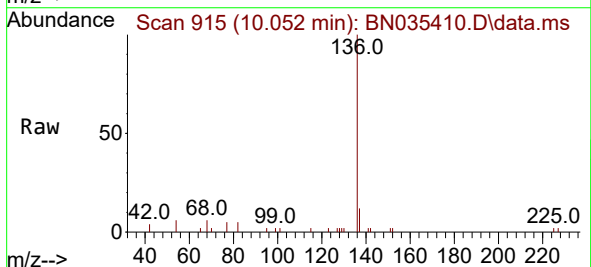
Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP200-20241202

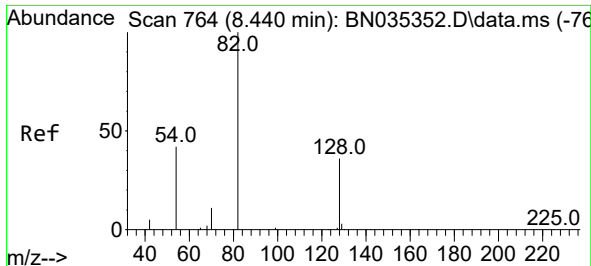
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 93    | Resp: | 129   |
| Ion      | Ratio | Lower | Upper |
| 93       | 100   |       |       |
| 63       | 69.8  | 50.4  | 75.6  |
| 95       | 31.8  | 25.7  | 38.5  |



#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.052 min Scan# 915  
Delta R.T. 0.000 min  
Lab File: BN035410.D  
Acq: 03 Dec 2024 19:24

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 5240  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 12.3  | 10.2  | 15.2  |
| 54       | 5.9   | 6.1   | 9.1#  |
| 68       | 6.0   | 6.4   | 9.6#  |

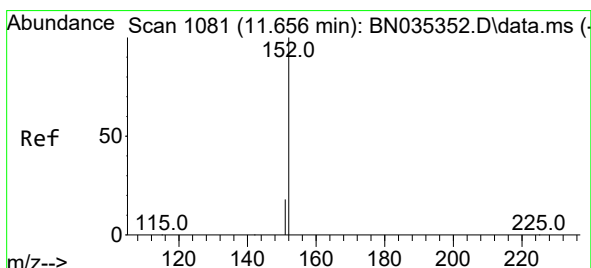
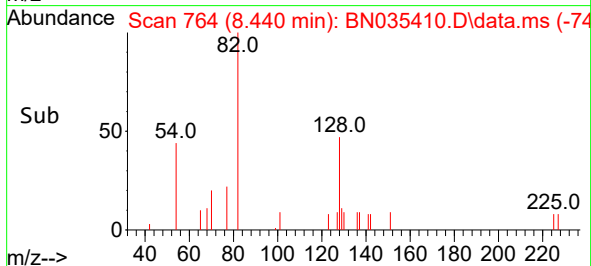
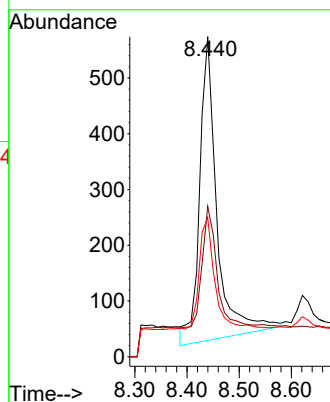
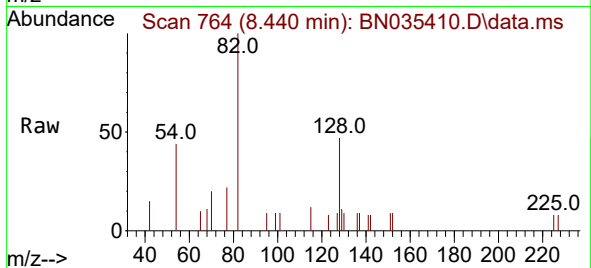




#8  
Nitrobenzene-d5  
Concen: 0.392 ng  
RT: 8.440 min Scan# 7  
Delta R.T. 0.000 min  
Lab File: BN035410.D  
Acq: 03 Dec 2024 19:24

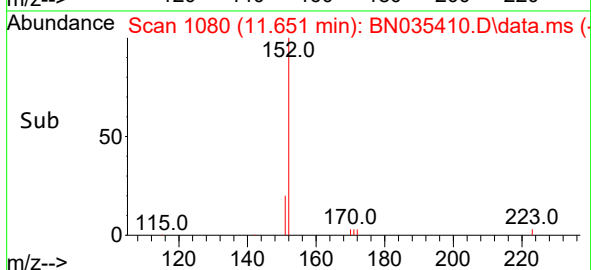
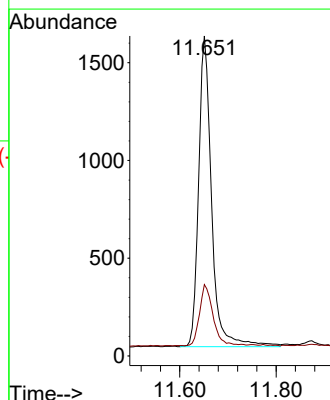
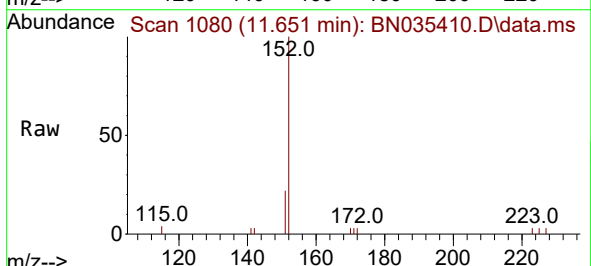
Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP200-20241202

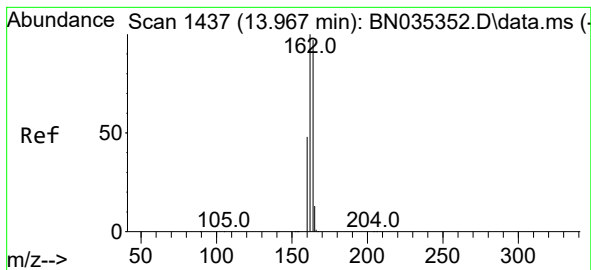
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 1256  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 47.0  | 33.4  | 50.0  |
| 54       | 43.6  | 36.7  | 55.1  |



#11  
2-Methylnaphthalene-d10  
Concen: 0.362 ng  
RT: 11.651 min Scan# 1080  
Delta R.T. -0.005 min  
Lab File: BN035410.D  
Acq: 03 Dec 2024 19:24

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 152   | Resp: | 2970  |
| Ion      | Ratio | Lower | Upper |
| 152      | 100   |       |       |
| 151      | 20.6  | 16.6  | 25.0  |





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 13.957 min Scan# 1437

Delta R.T. -0.011 min

Lab File: BN035410.D

Acq: 03 Dec 2024 19:24

Instrument :

BNA\_N

ClientSampleId :

RW7-SP200-20241202

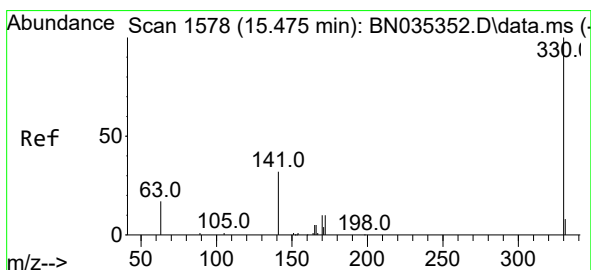
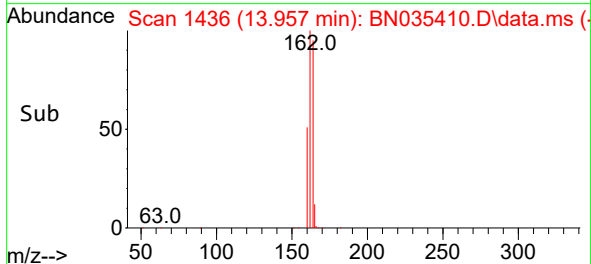
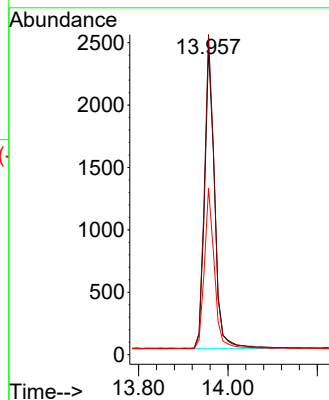
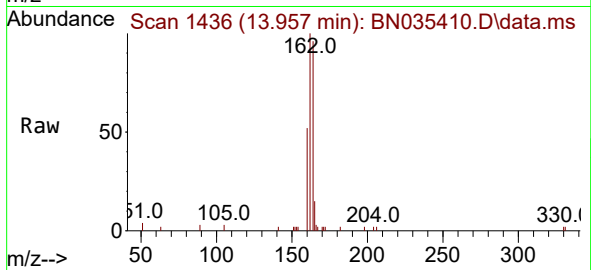
Tgt Ion:164 Resp: 3772

Ion Ratio Lower Upper

164 100

162 104.5 82.2 123.2

160 54.4 40.1 60.1



#14

2,4,6-Tribromophenol

Concen: 0.198 ng

RT: 15.475 min Scan# 1578

Delta R.T. 0.000 min

Lab File: BN035410.D

Acq: 03 Dec 2024 19:24

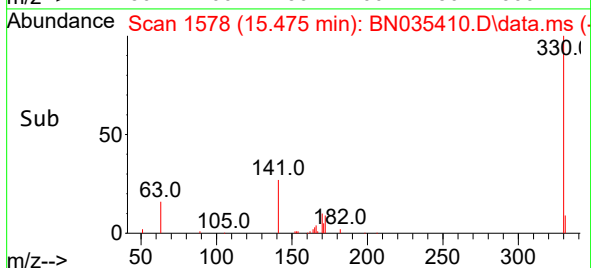
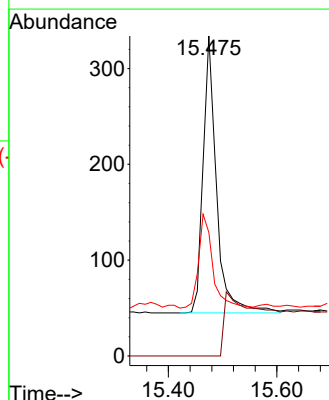
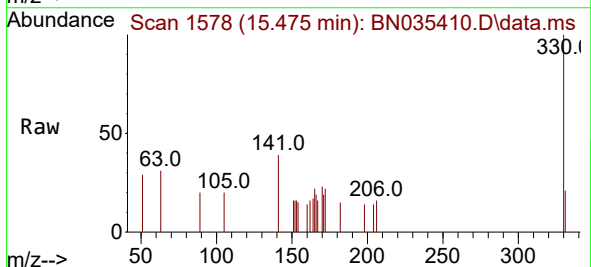
Tgt Ion:330 Resp: 530

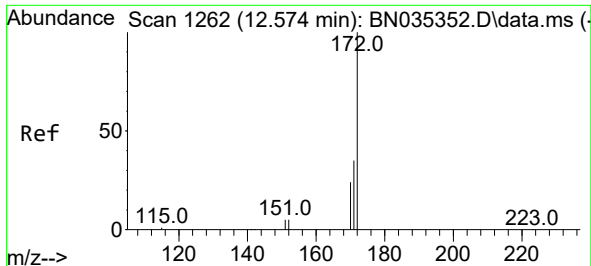
Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

141 35.3 26.6 40.0

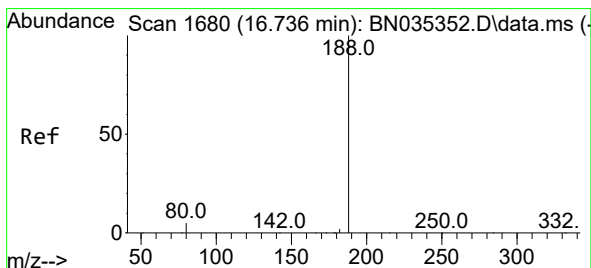
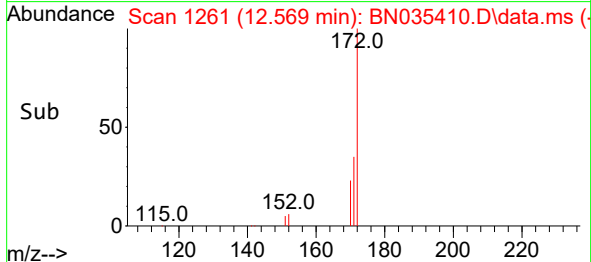
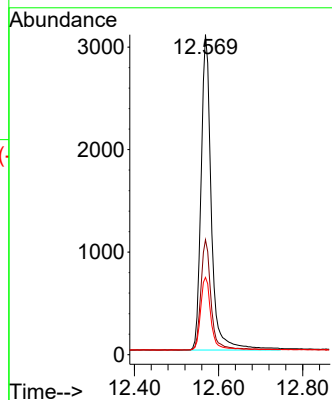
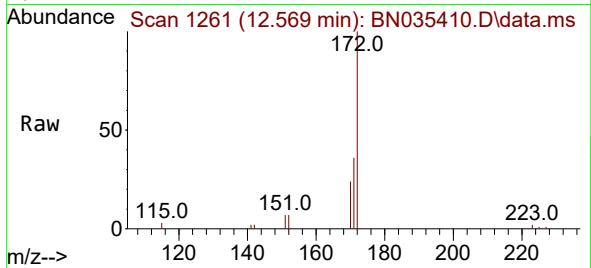




#15  
2-Fluorobiphenyl  
Concen: 0.365 ng  
RT: 12.569 min Scan# 11  
Delta R.T. -0.005 min  
Lab File: BN035410.D  
Acq: 03 Dec 2024 19:24

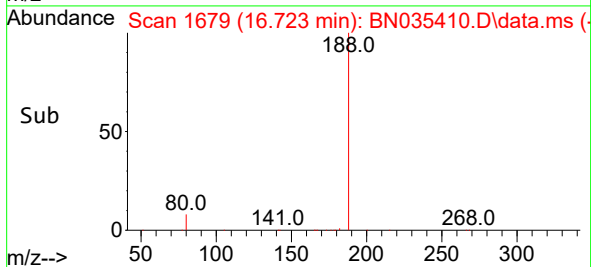
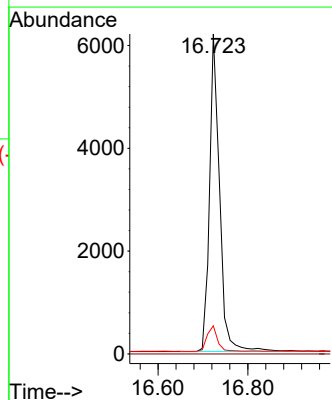
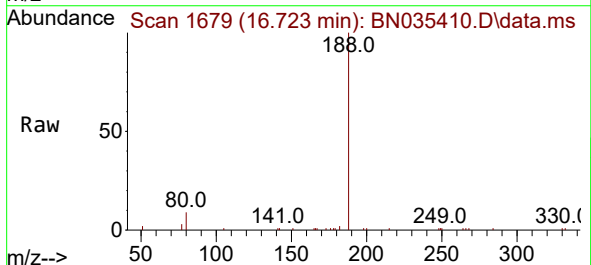
Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP200-20241202

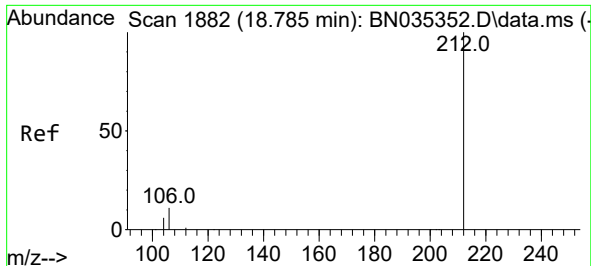
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:172 | Resp: | 5211      |
| Ion Ratio   | Lower | Upper     |
| 172         | 100   |           |
| 171         | 35.9  | 29.0 43.4 |
| 170         | 24.1  | 19.8 29.8 |



#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 16.723 min Scan# 1679  
Delta R.T. -0.012 min  
Lab File: BN035410.D  
Acq: 03 Dec 2024 19:24

|             |       |          |
|-------------|-------|----------|
| Tgt Ion:188 | Resp: | 9570     |
| Ion Ratio   | Lower | Upper    |
| 188         | 100   |          |
| 94          | 0.0   | 0.0 0.0  |
| 80          | 8.8   | 4.6 6.8# |

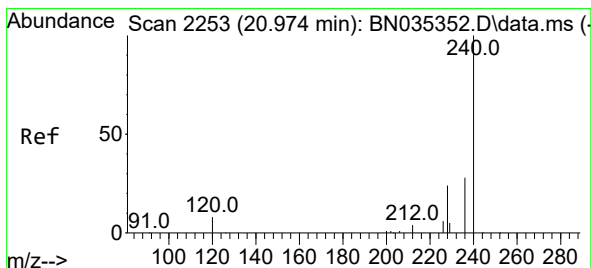
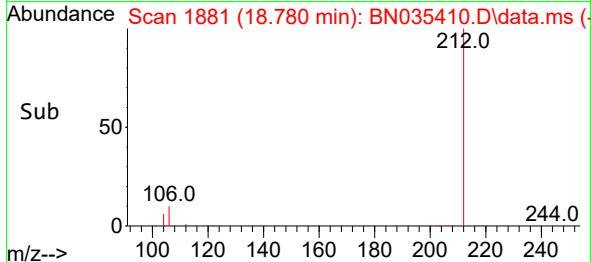
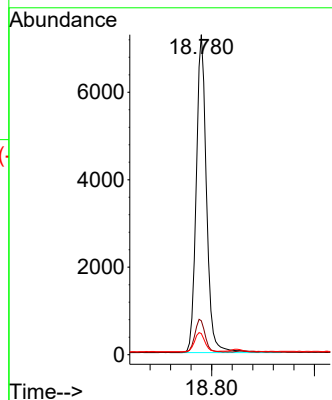
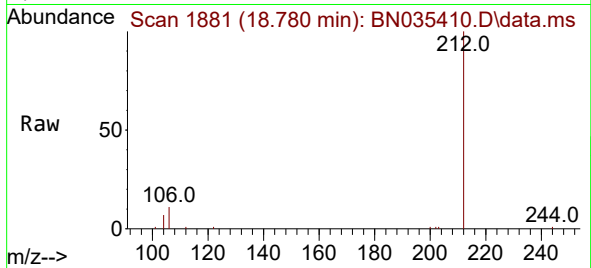




#27  
Fluoranthene-d10  
Concen: 0.373 ng  
RT: 18.780 min Scan# 1882  
Delta R.T. -0.005 min  
Lab File: BN035410.D  
Acq: 03 Dec 2024 19:24

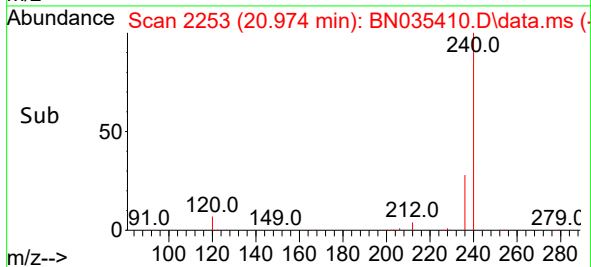
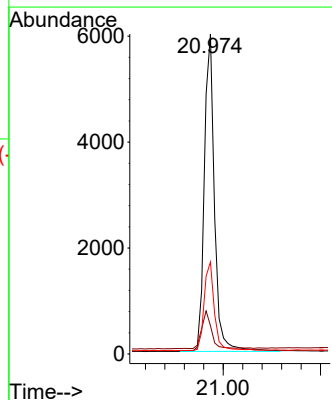
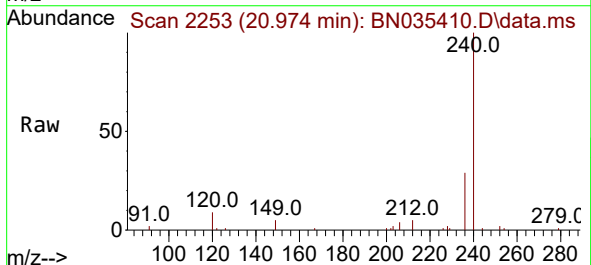
Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP200-20241202

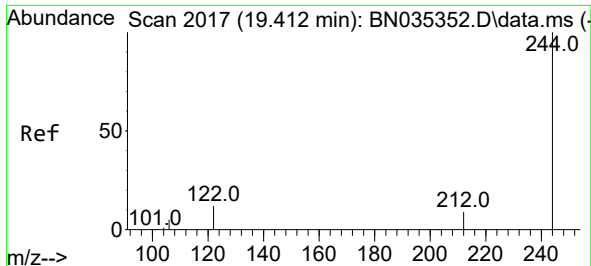
Tgt Ion:212 Resp: 10124  
Ion Ratio Lower Upper  
212 100  
106 10.5 9.2 13.8  
104 6.0 5.3 7.9



#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 20.974 min Scan# 2253  
Delta R.T. 0.000 min  
Lab File: BN035410.D  
Acq: 03 Dec 2024 19:24

Tgt Ion:240 Resp: 8675  
Ion Ratio Lower Upper  
240 100  
120 8.8 7.9 11.9  
236 28.8 22.9 34.3

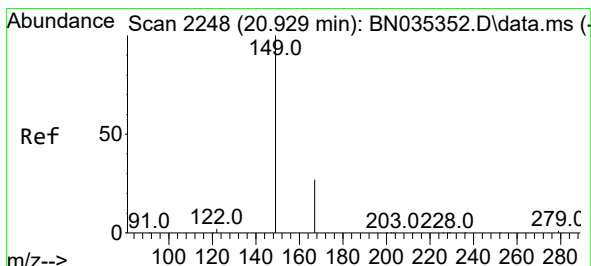
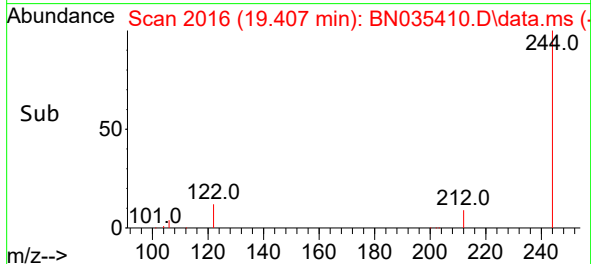
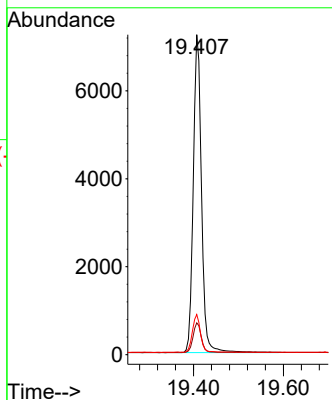
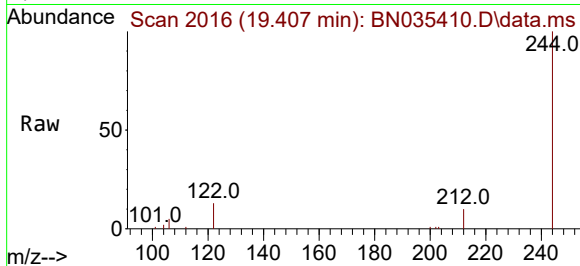




#31  
Terphenyl-d14  
Concen: 0.540 ng  
RT: 19.407 min Scan# 2017  
Delta R.T. -0.005 min  
Lab File: BN035410.D  
Acq: 03 Dec 2024 19:24

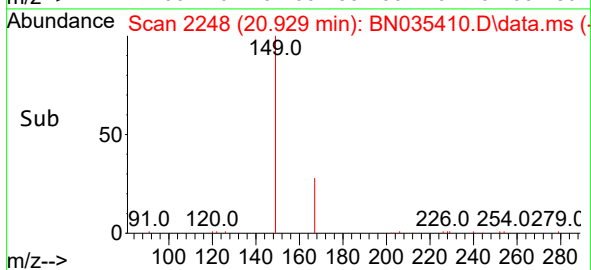
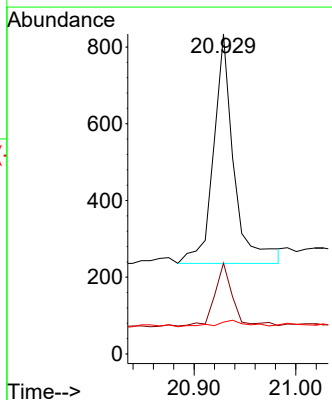
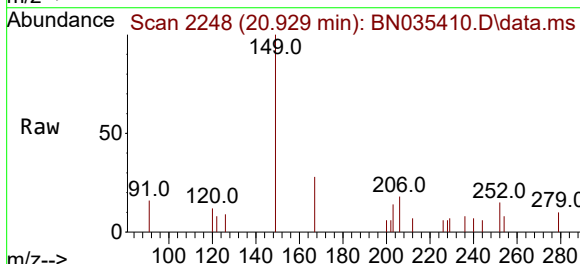
Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP200-20241202

Tgt Ion:244 Resp: 9247  
Ion Ratio Lower Upper  
244 100  
212 10.0 8.1 12.1  
122 12.6 10.3 15.5

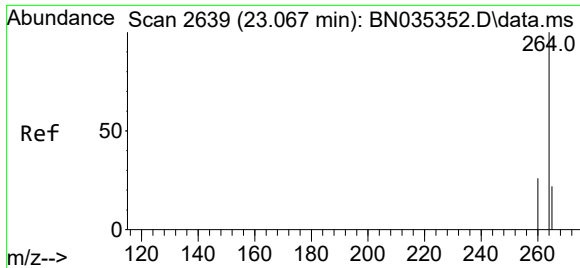


#34  
Bis(2-ethylhexyl)phthalate  
Concen: 0.069 ng  
RT: 20.929 min Scan# 2248  
Delta R.T. 0.000 min  
Lab File: BN035410.D  
Acq: 03 Dec 2024 19:24

Tgt Ion:149 Resp: 831  
Ion Ratio Lower Upper  
149 100  
167 23.7 22.2 33.4  
279 4.2 2.7 4.1#

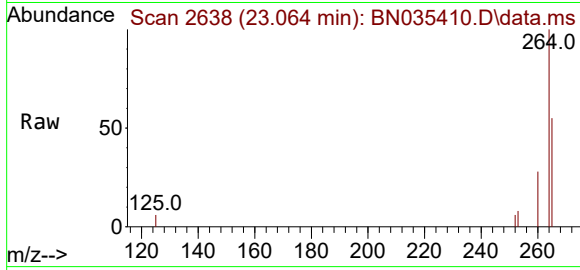




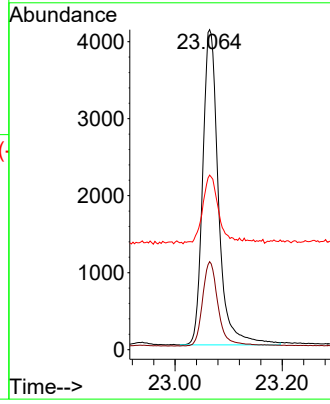
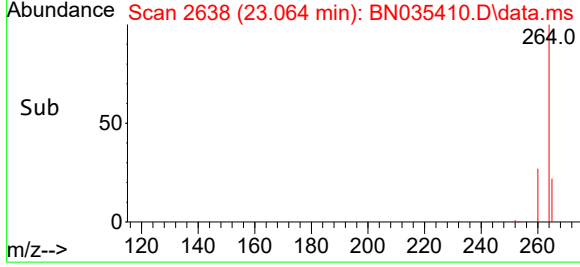


#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.064 min Scan# 20  
Delta R.T. -0.003 min  
Lab File: BN035410.D  
Acq: 03 Dec 2024 19:24

Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP200-20241202



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 264   | Resp: | 8373  |
| Ion      | Ratio | Lower | Upper |
| 264      | 100   |       |       |
| 260      | 27.5  | 21.4  | 32.2  |
| 265      | 54.6  | 40.2  | 60.4  |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN120424\  
Data File : BN035411.D  
Acq On : 03 Dec 2024 20:00  
Operator : RC/JU  
Sample : P5065-05  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP201-20241202

Quant Time: Dec 03 22:06:00 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

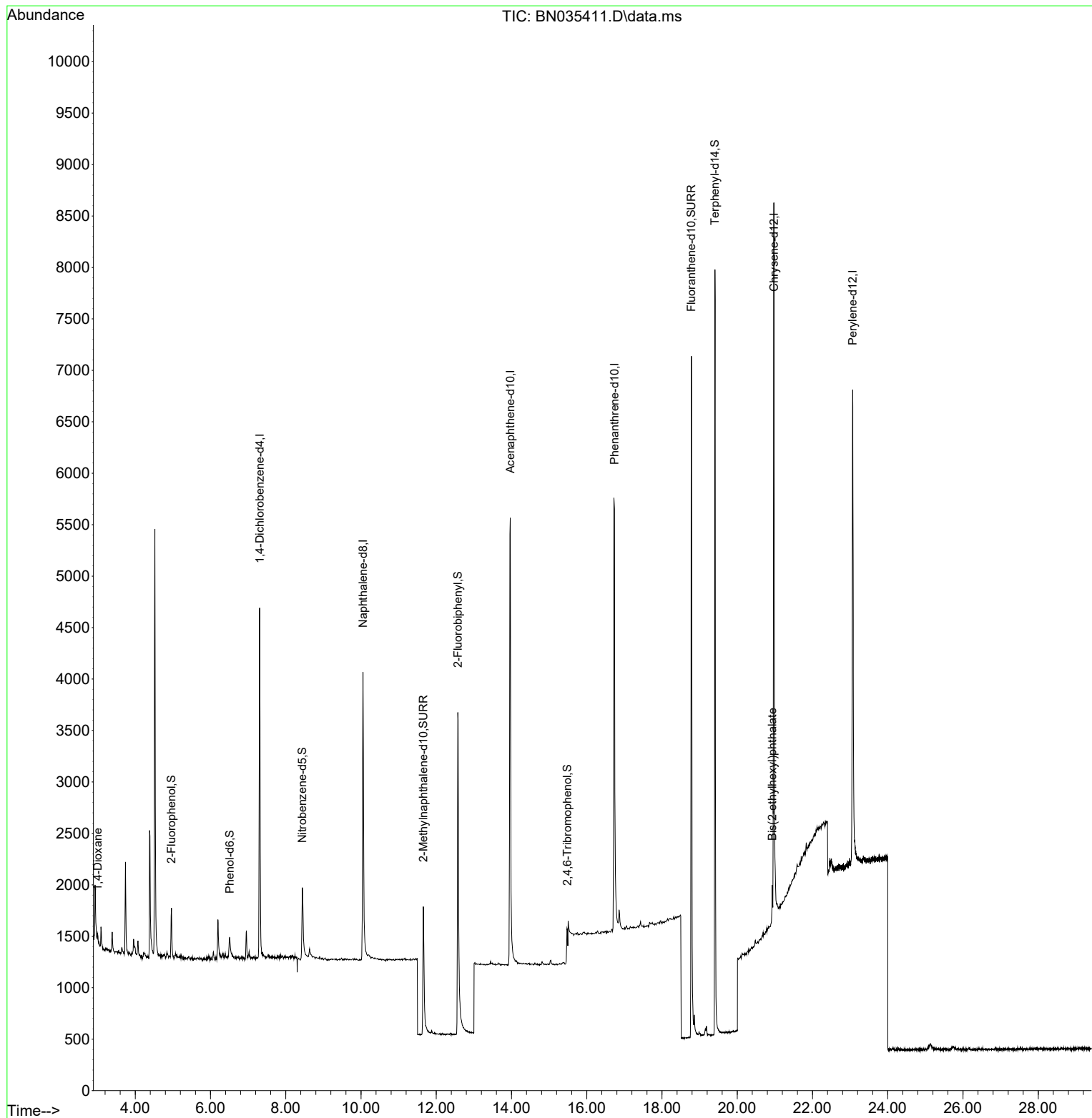
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.308  | 152  | 1851     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.052 | 136  | 4555     | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 13.967 | 164  | 3248     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 16.736 | 188  | 8127     | 0.400 | ng    | # 0.00   |
| 29) Chrysene-d12              | 20.974 | 240  | 6931     | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.067 | 264  | 6312     | 0.400 | ng    | # 0.00   |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 4.961  | 112  | 428      | 0.092 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.513  | 99   | 268      | 0.048 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.440  | 82   | 1114     | 0.400 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.656 | 152  | 2531     | 0.355 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.485 | 330  | 441      | 0.191 | ng    | 0.01     |
| 15) 2-Fluorobiphenyl          | 12.574 | 172  | 4425     | 0.360 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 18.780 | 212  | 8690     | 0.377 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.407 | 244  | 7900     | 0.578 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
| 2) 1,4-Dioxane                | 3.003  | 88   | 109      | 0.062 | ng    | # 68     |
| 34) Bis(2-ethylhexyl)phtha... | 20.929 | 149  | 402      | 0.042 | ng    | 93       |

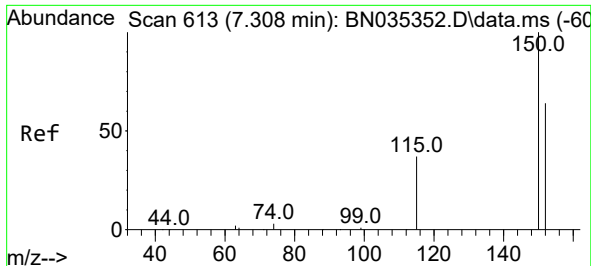
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN120424\  
Data File : BN035411.D  
Acq On : 03 Dec 2024 20:00  
Operator : RC/JU  
Sample : P5065-05  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP201-20241202

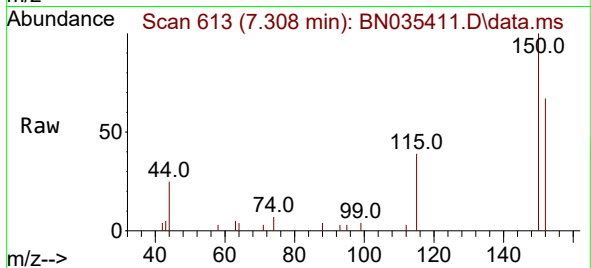
Quant Time: Dec 03 22:06:00 2024  
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Nov 27 23:03:24 2024  
Response via : Initial Calibration



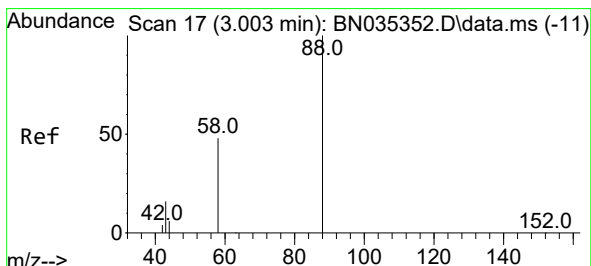
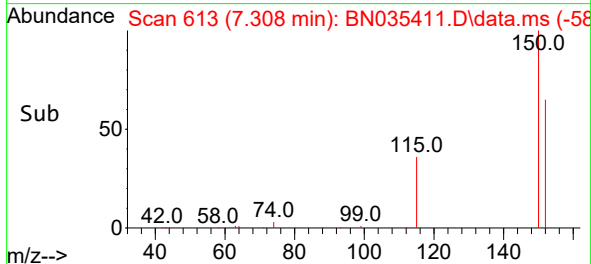
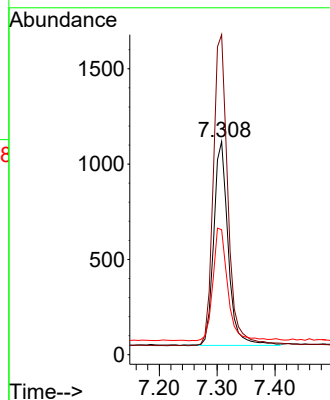


#1  
 1,4-Dichlorobenzene-d4  
 Concen: 0.400 ng  
 RT: 7.308 min Scan# 613  
 Delta R.T. -0.000 min  
 Lab File: BN035411.D  
 Acq: 03 Dec 2024 20:00

Instrument :  
 BNA\_N  
 ClientSampleId :  
 RW7-SP201-20241202

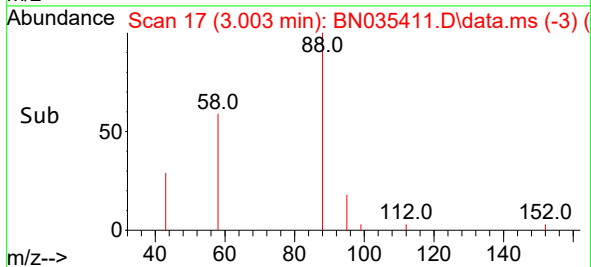
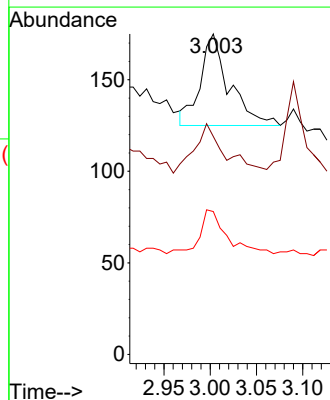
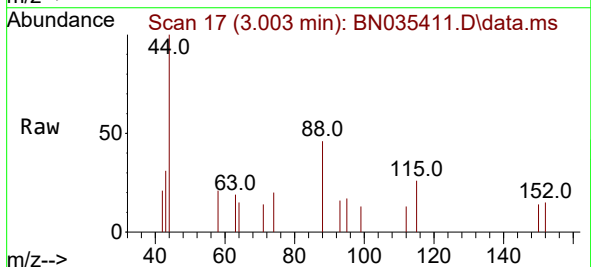


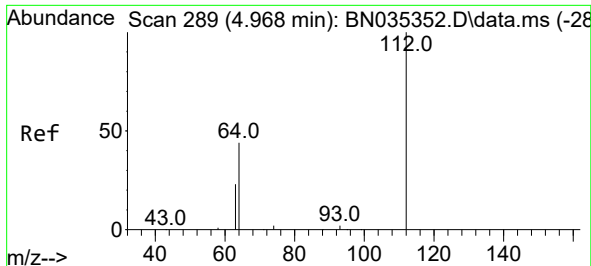
Tgt Ion:152 Resp: 1851  
 Ion Ratio Lower Upper  
 152 100  
 150 150.2 124.0 186.0  
 115 58.7 49.6 74.4



#2  
 1,4-Dioxane  
 Concen: 0.062 ng  
 RT: 3.003 min Scan# 17  
 Delta R.T. 0.000 min  
 Lab File: BN035411.D  
 Acq: 03 Dec 2024 20:00

Tgt Ion: 88 Resp: 109  
 Ion Ratio Lower Upper  
 88 100  
 43 56.9 17.2 25.8#  
 58 44.0 44.5 66.7#

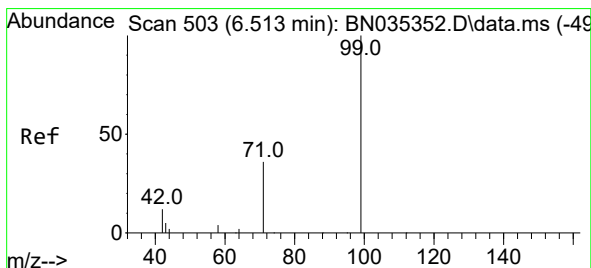
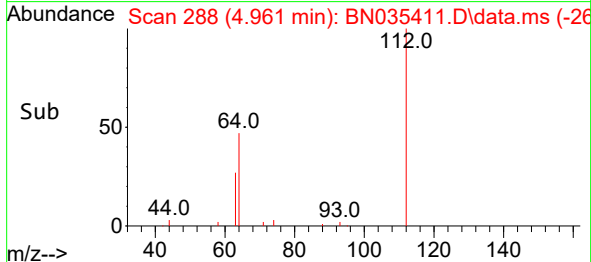
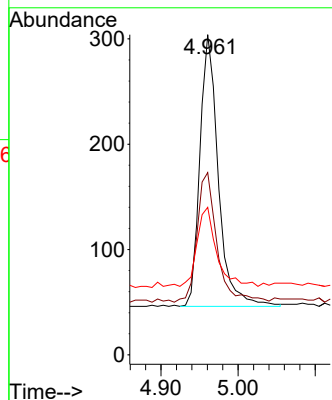
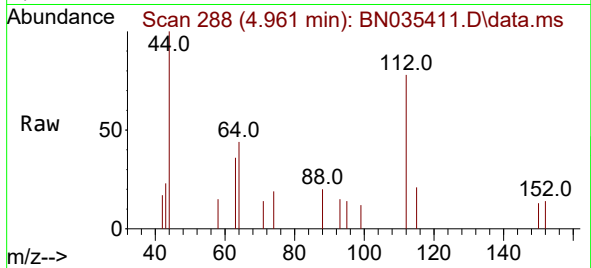




#4  
2-Fluorophenol  
Concen: 0.092 ng  
RT: 4.961 min Scan# 21  
Delta R.T. -0.007 min  
Lab File: BN035411.D  
Acq: 03 Dec 2024 20:00

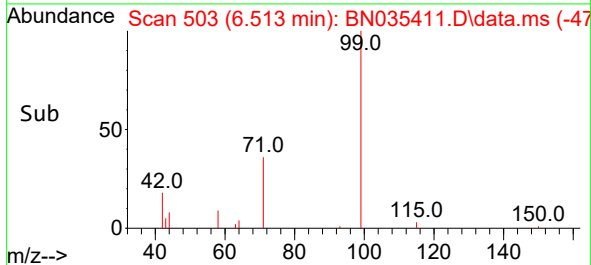
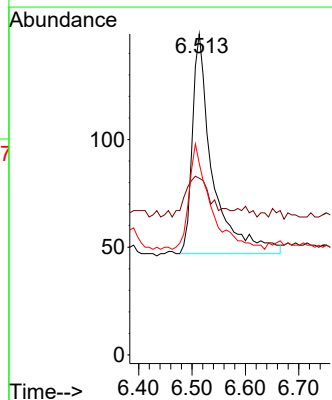
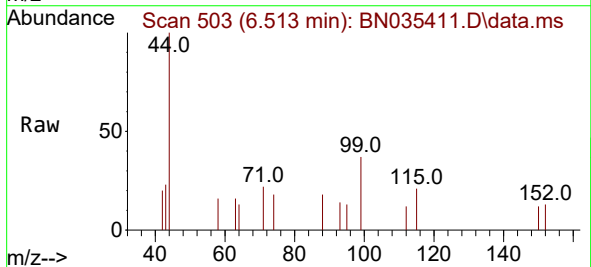
Instrument :  
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ClientSampleId :  
RW7-SP201-20241202

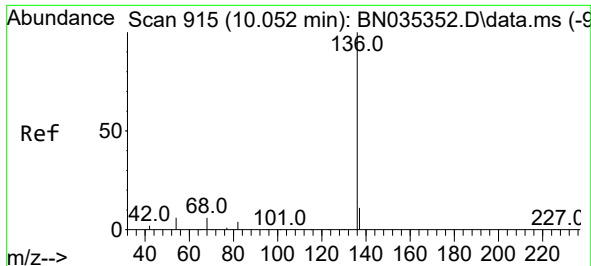
Tgt Ion:112 Resp: 428  
Ion Ratio Lower Upper  
112 100  
64 51.6 39.8 59.8  
63 30.6 21.0 31.6



#5  
Phenol-d6  
Concen: 0.048 ng  
RT: 6.513 min Scan# 503  
Delta R.T. 0.000 min  
Lab File: BN035411.D  
Acq: 03 Dec 2024 20:00

Tgt Ion: 99 Resp: 268  
Ion Ratio Lower Upper  
99 100  
42 23.1 11.4 17.2#  
71 50.7 29.3 43.9#

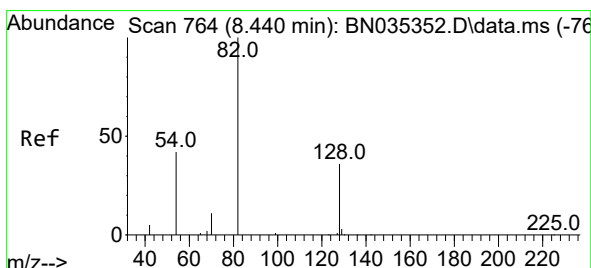
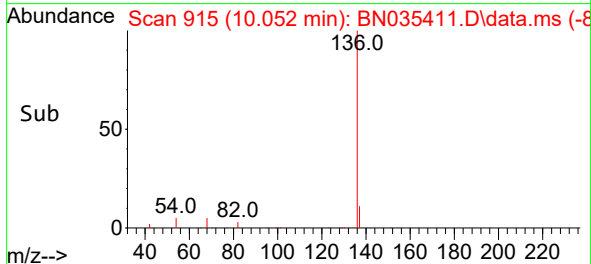
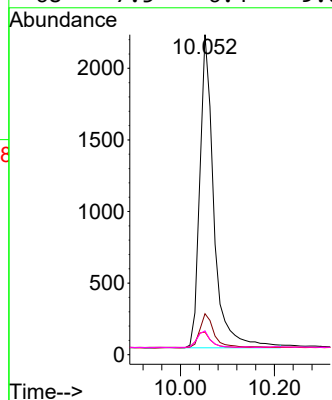
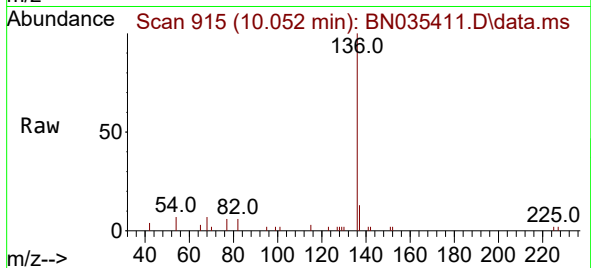




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.052 min Scan# 915  
Delta R.T. 0.000 min  
Lab File: BN035411.D  
Acq: 03 Dec 2024 20:00

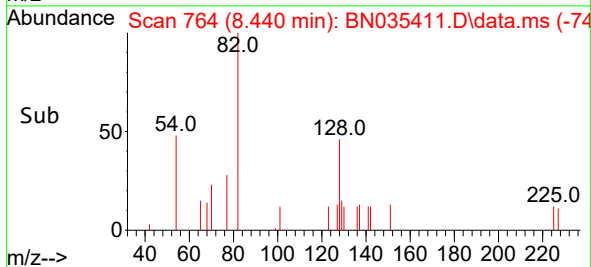
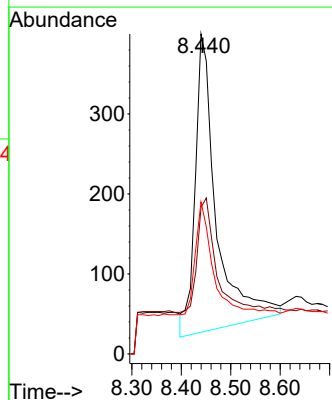
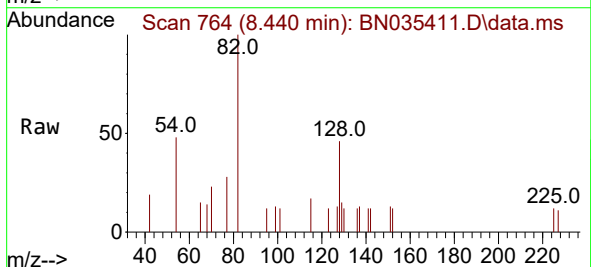
Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP201-20241202

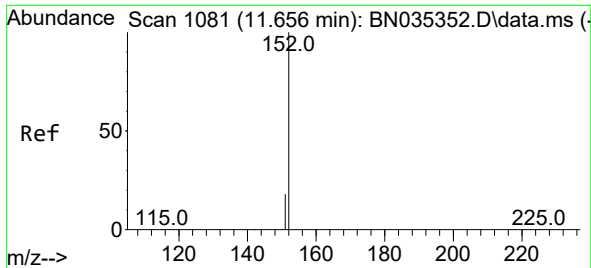
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 4555  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 12.8  | 10.2  | 15.2  |
| 54       | 7.1   | 6.1   | 9.1   |
| 68       | 7.5   | 6.4   | 9.6   |



#8  
Nitrobenzene-d5  
Concen: 0.400 ng  
RT: 8.440 min Scan# 764  
Delta R.T. 0.000 min  
Lab File: BN035411.D  
Acq: 03 Dec 2024 20:00

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 1114  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 45.8  | 33.4  | 50.0  |
| 54       | 47.5  | 36.7  | 55.1  |

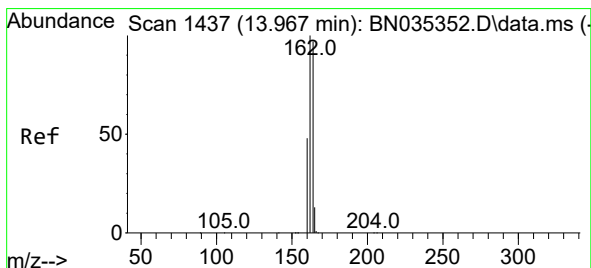
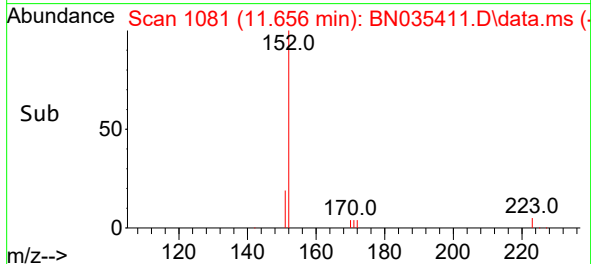
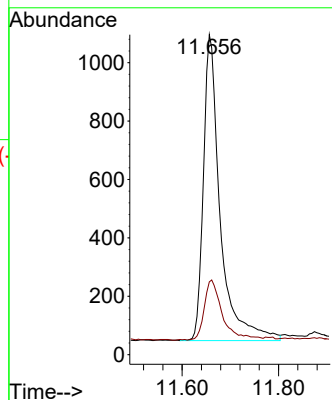
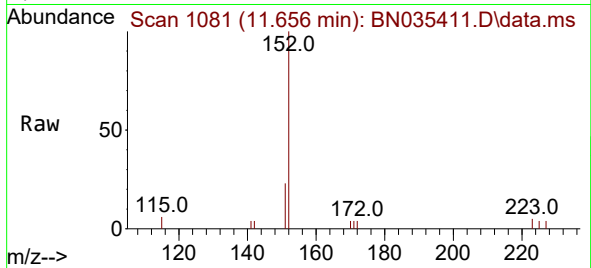




#11  
2-Methylnaphthalene-d10  
Concen: 0.355 ng  
RT: 11.656 min Scan# 1081  
Delta R.T. 0.000 min  
Lab File: BN035411.D  
Acq: 03 Dec 2024 20:00

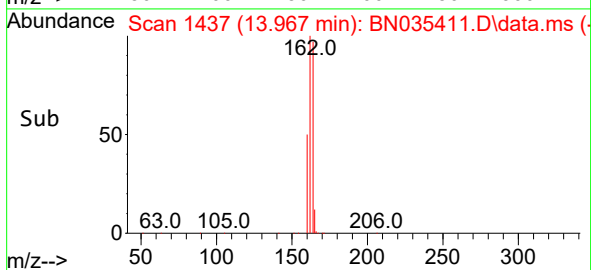
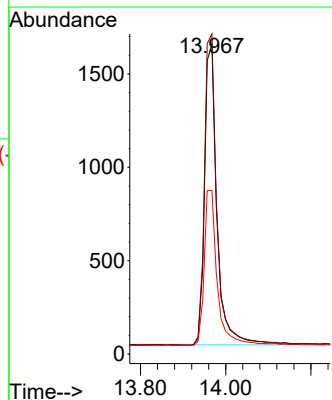
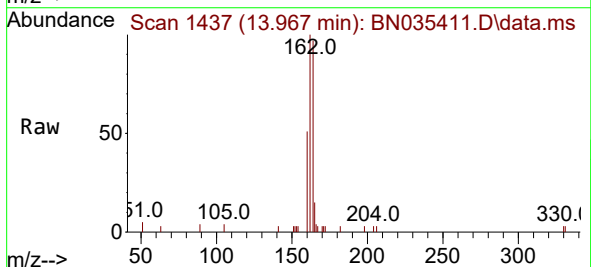
Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP201-20241202

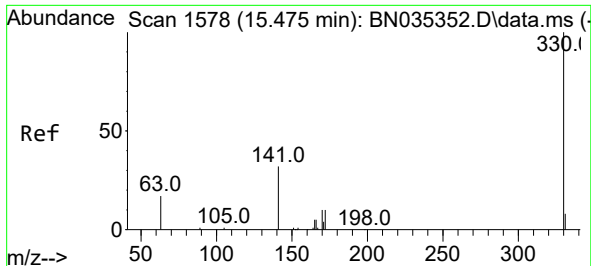
Tgt Ion:152 Resp: 2531  
Ion Ratio Lower Upper  
152 100  
151 21.2 16.6 25.0



#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.967 min Scan# 1437  
Delta R.T. 0.000 min  
Lab File: BN035411.D  
Acq: 03 Dec 2024 20:00

Tgt Ion:164 Resp: 3248  
Ion Ratio Lower Upper  
164 100  
162 103.3 82.2 123.2  
160 52.8 40.1 60.1

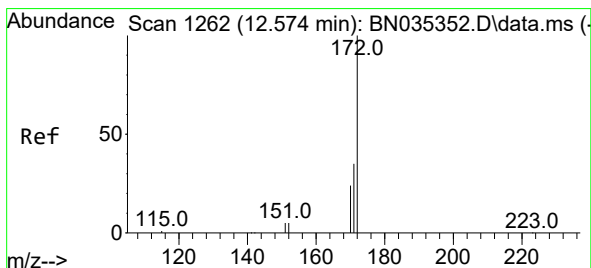
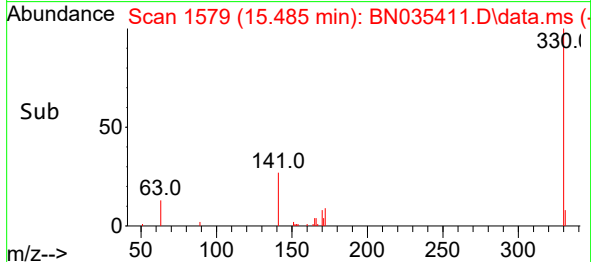
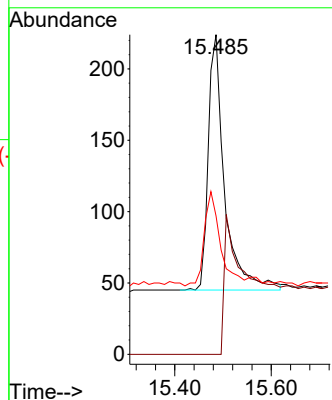
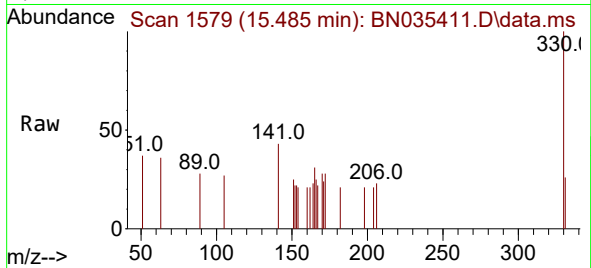




#14  
2,4,6-Tribromophenol  
Concen: 0.191 ng  
RT: 15.485 min Scan# 11  
Delta R.T. 0.011 min  
Lab File: BN035411.D  
Acq: 03 Dec 2024 20:00

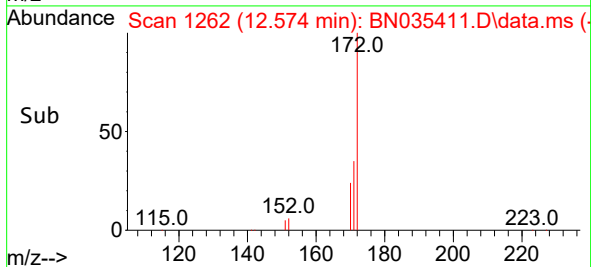
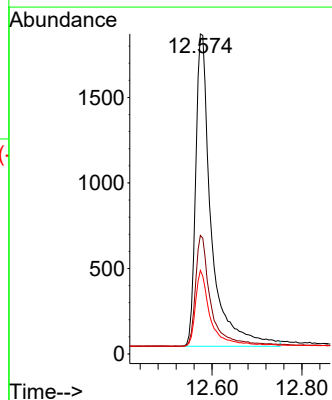
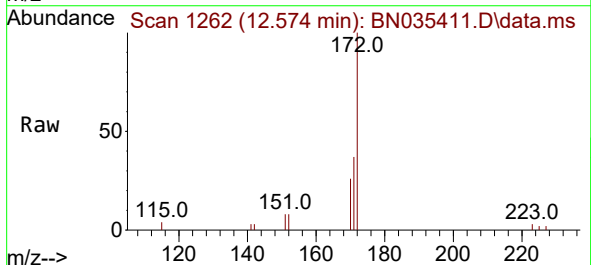
Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP201-20241202

Tgt Ion:330 Resp: 441  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 40.8 26.6 40.0#

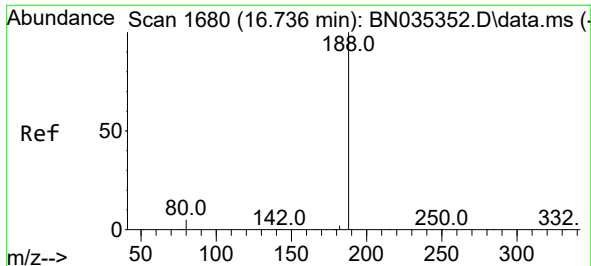


#15  
2-Fluorobiphenyl  
Concen: 0.360 ng  
RT: 12.574 min Scan# 1262  
Delta R.T. 0.000 min  
Lab File: BN035411.D  
Acq: 03 Dec 2024 20:00

Tgt Ion:172 Resp: 4425  
Ion Ratio Lower Upper  
172 100  
171 37.0 29.0 43.4  
170 26.1 19.8 29.8



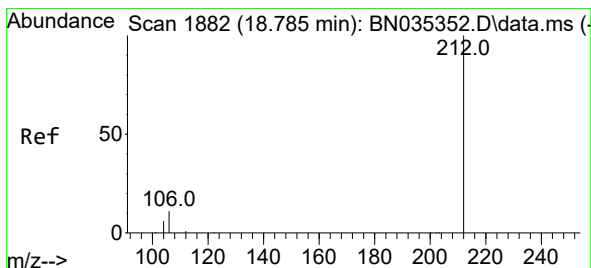
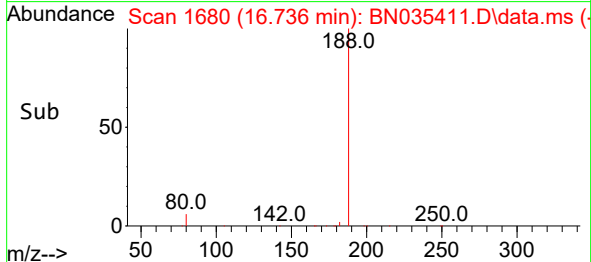
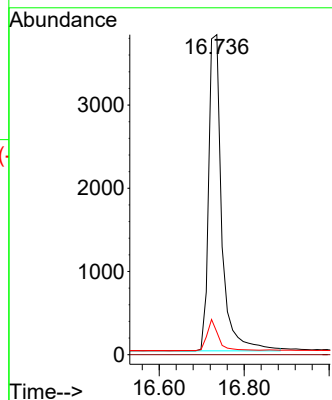
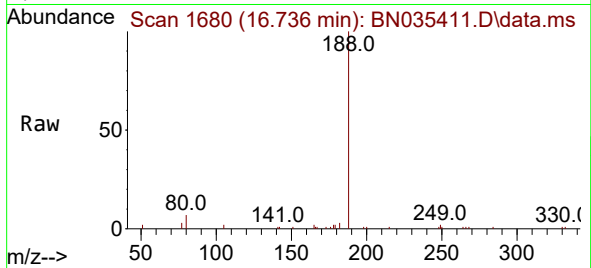




#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 16.736 min Scan# 1  
Delta R.T. 0.000 min  
Lab File: BN035411.D  
Acq: 03 Dec 2024 20:00

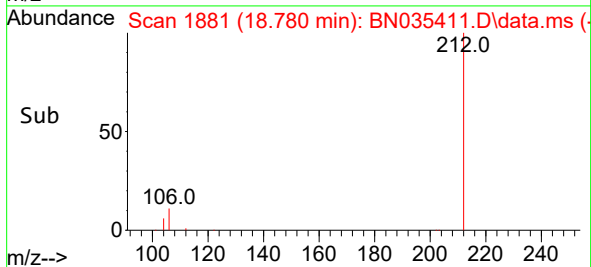
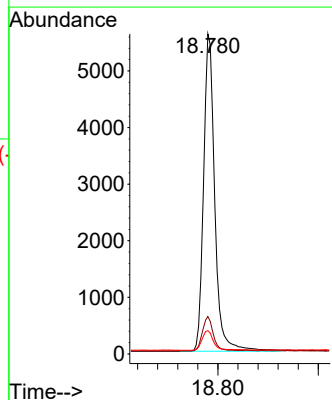
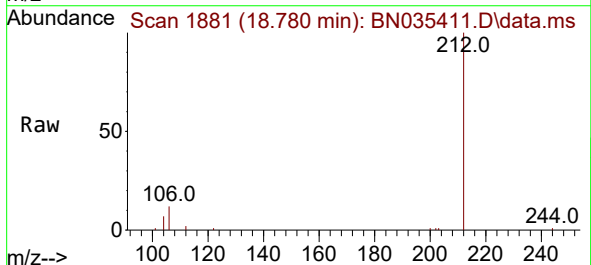
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BNA\_N  
ClientSampleId :  
RW7-SP201-20241202

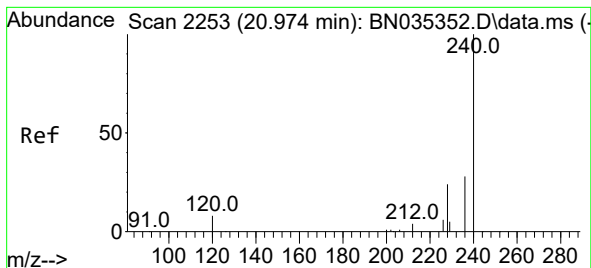
Tgt Ion:188 Resp: 8127  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 7.0 4.6 6.8#



#27  
Fluoranthene-d10  
Concen: 0.377 ng  
RT: 18.780 min Scan# 1881  
Delta R.T. -0.005 min  
Lab File: BN035411.D  
Acq: 03 Dec 2024 20:00

Tgt Ion:212 Resp: 8690  
Ion Ratio Lower Upper  
212 100  
106 10.5 9.2 13.8  
104 6.5 5.3 7.9





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.974 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN035411.D

Acq: 03 Dec 2024 20:00

Instrument :

BNA\_N

ClientSampleId :

RW7-SP201-20241202

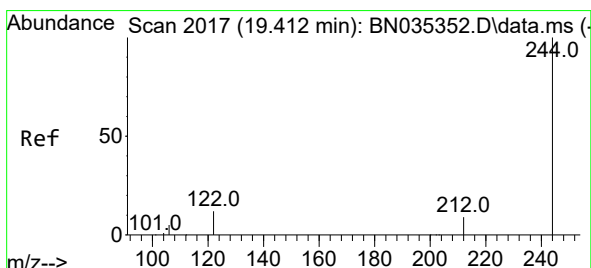
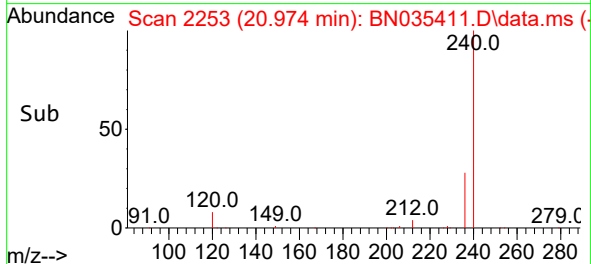
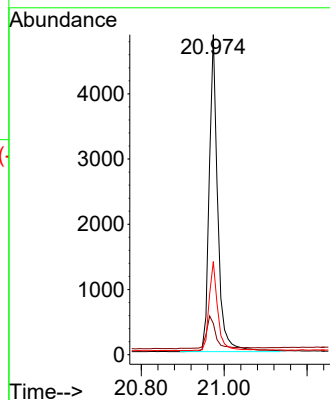
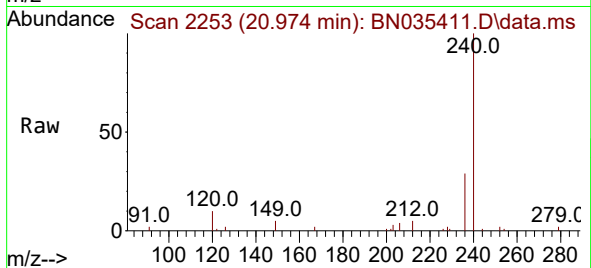
Tgt Ion:240 Resp: 6931

Ion Ratio Lower Upper

240 100

120 9.7 7.9 11.9

236 29.1 22.9 34.3



#31

Terphenyl-d14

Concen: 0.578 ng

RT: 19.407 min Scan# 2016

Delta R.T. -0.005 min

Lab File: BN035411.D

Acq: 03 Dec 2024 20:00

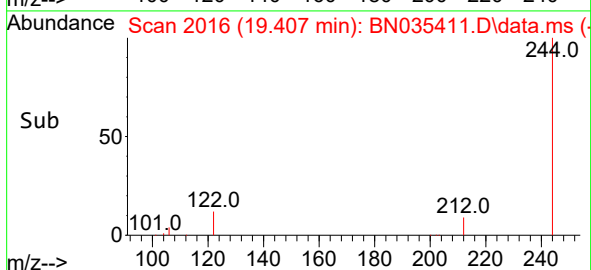
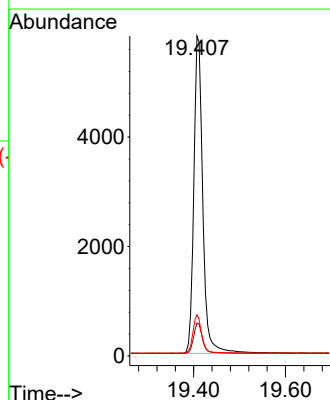
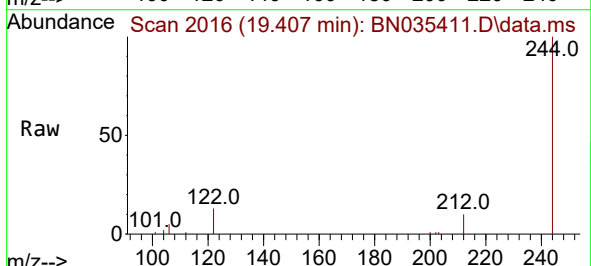
Tgt Ion:244 Resp: 7900

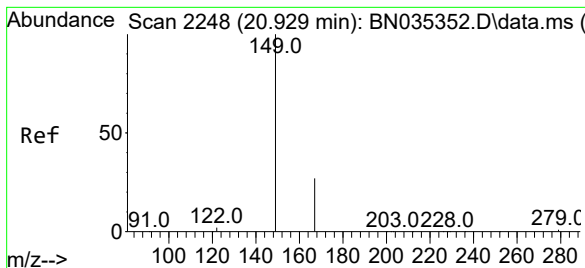
Ion Ratio Lower Upper

244 100

212 10.3 8.1 12.1

122 12.9 10.3 15.5

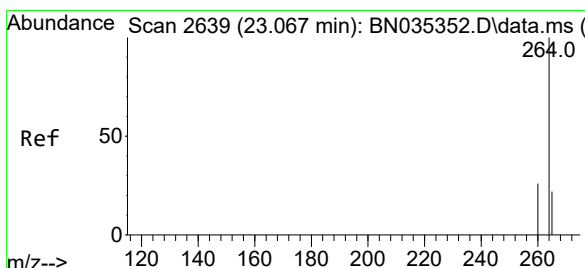
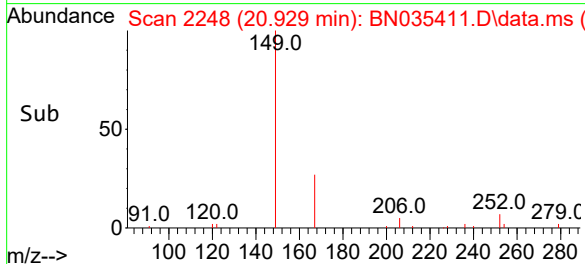
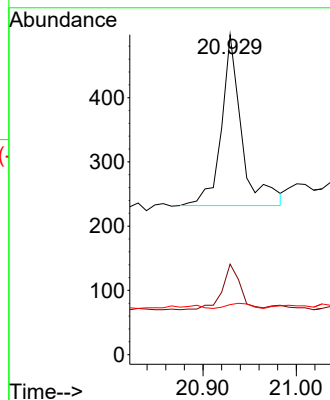
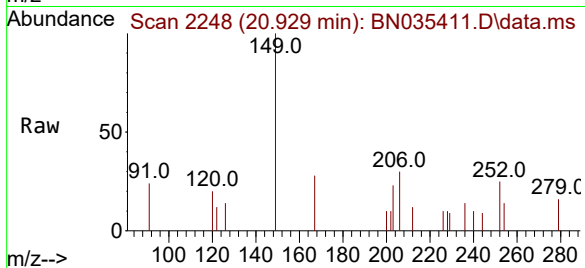




#34  
Bis(2-ethylhexyl)phthalate  
Concen: 0.042 ng  
RT: 20.929 min Scan# 211  
Delta R.T. 0.000 min  
Lab File: BN035411.D  
Acq: 03 Dec 2024 20:00

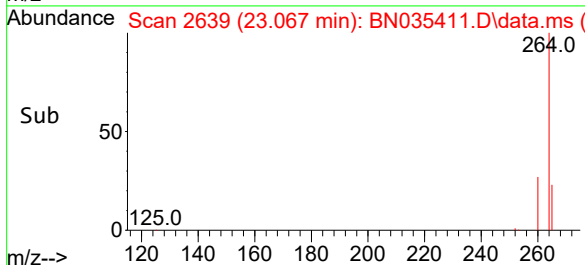
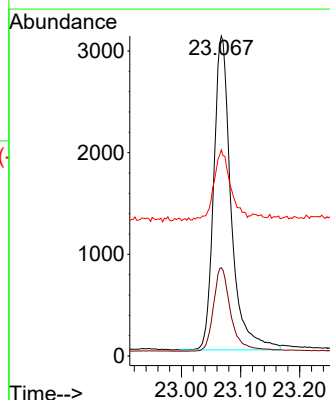
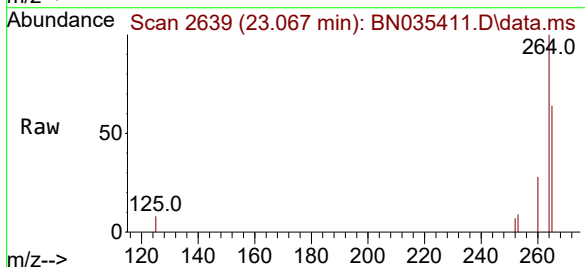
Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP201-20241202

Tgt Ion:149 Resp: 402  
Ion Ratio Lower Upper  
149 100  
167 23.9 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: BN035411.D  
Acq: 03 Dec 2024 20:00

Tgt Ion:264 Resp: 6312  
Ion Ratio Lower Upper  
264 100  
260 27.6 21.4 32.2  
265 64.4 40.2 60.4#



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN120424\  
 Data File : BN035413.D  
 Acq On : 03 Dec 2024 21:11  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4EC

Quant Time: Dec 03 22:06:25 2024  
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 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Nov 27 23:03:24 2024  
 Response via : Initial Calibration

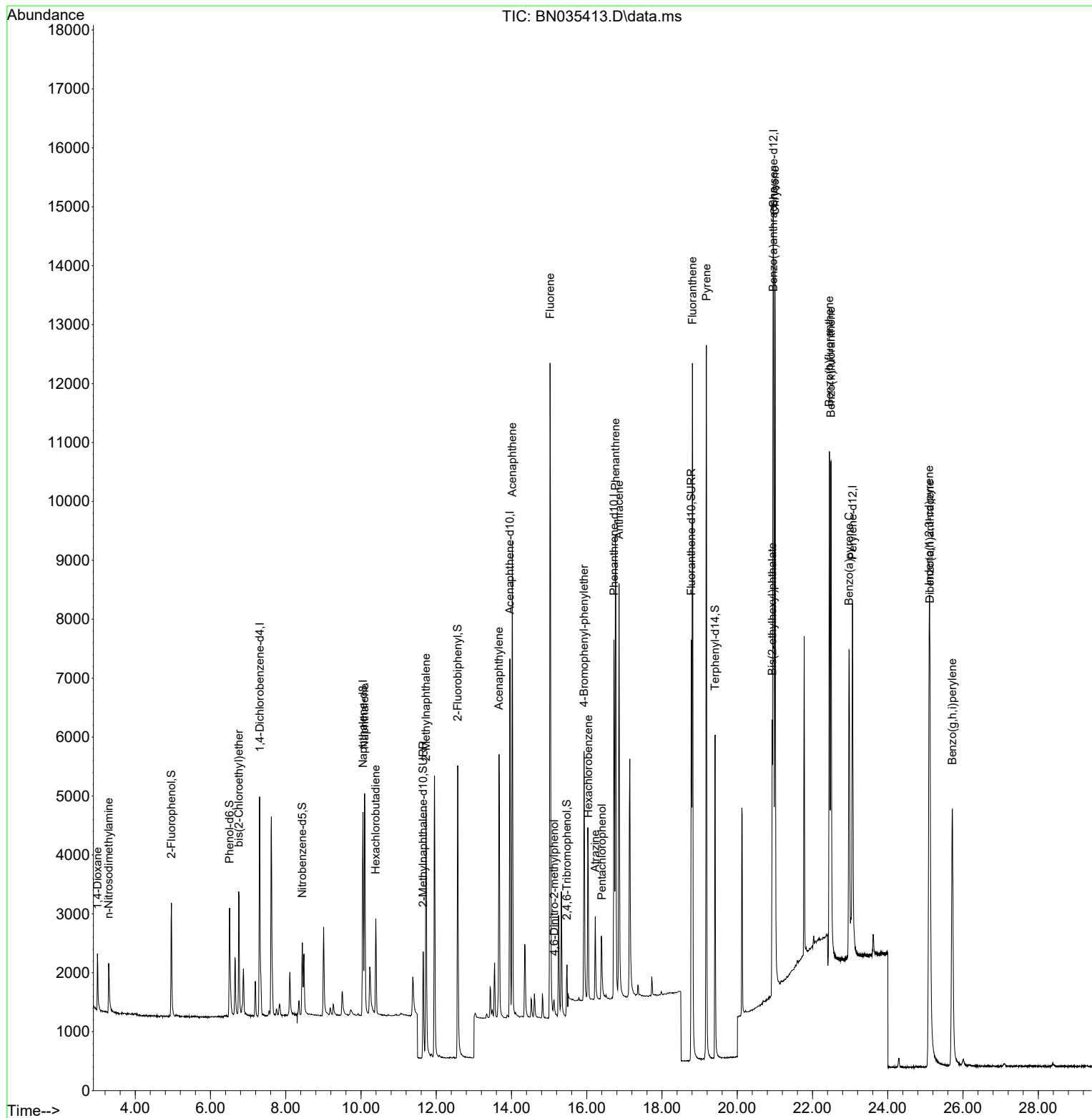
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min)  |
|-------------------------------|--------|------|----------|-------|-------|-----------|
| Internal Standards            |        |      |          |       |       |           |
| 1) 1,4-Dichlorobenzene-d4     | 7.308  | 152  | 1905     | 0.400 | ng    | 0.00      |
| 7) Naphthalene-d8             | 10.052 | 136  | 4842     | 0.400 | ng    | # 0.00    |
| 13) Acenaphthene-d10          | 13.957 | 164  | 3417     | 0.400 | ng    | -0.01     |
| 19) Phenanthrene-d10          | 16.723 | 188  | 8599     | 0.400 | ng    | #-0.01    |
| 29) Chrysene-d12              | 20.965 | 240  | 7834     | 0.400 | ng    | # 0.00    |
| 35) Perylene-d12              | 23.064 | 264  | 7769     | 0.400 | ng    | 0.00      |
| System Monitoring Compounds   |        |      |          |       |       |           |
| 4) 2-Fluorophenol             | 4.960  | 112  | 1727     | 0.362 | ng    | 0.00      |
| 5) Phenol-d6                  | 6.506  | 99   | 2086     | 0.364 | ng    | 0.00      |
| 8) Nitrobenzene-d5            | 8.440  | 82   | 1366     | 0.462 | ng    | 0.00      |
| 11) 2-Methylnaphthalene-d10   | 11.651 | 152  | 2948     | 0.389 | ng    | 0.00      |
| 14) 2,4,6-Tribromophenol      | 15.475 | 330  | 874      | 0.360 | ng    | 0.00      |
| 15) 2-Fluorobiphenyl          | 12.569 | 172  | 5285     | 0.409 | ng    | 0.00      |
| 27) Fluoranthene-d10          | 18.780 | 212  | 8797     | 0.361 | ng    | 0.00      |
| 31) Terphenyl-d14             | 19.412 | 244  | 6230     | 0.403 | ng    | 0.00      |
| Target Compounds              |        |      |          |       |       |           |
| 2) 1,4-Dioxane                | 2.996  | 88   | 731      | 0.401 | ng    | Qvalue 98 |
| 3) n-Nitrosodimethylamine     | 3.292  | 42   | 561      | 0.370 | ng    | # 91      |
| 6) bis(2-Chloroethyl)ether    | 6.752  | 93   | 1811     | 0.376 | ng    | 98        |
| 9) Naphthalene                | 10.095 | 128  | 5107     | 0.400 | ng    | 99        |
| 10) Hexachlorobutadiene       | 10.394 | 225  | 1291     | 0.438 | ng    | # 100     |
| 12) 2-Methylnaphthalene       | 11.727 | 142  | 3555     | 0.389 | ng    | 98        |
| 16) Acenaphthylene            | 13.668 | 152  | 5470     | 0.381 | ng    | 99        |
| 17) Acenaphthene              | 14.021 | 154  | 3732     | 0.392 | ng    | 98        |
| 18) Fluorene                  | 15.026 | 166  | 5390     | 0.395 | ng    | 100       |
| 20) 4,6-Dinitro-2-methylph... | 15.133 | 198  | 303      | 0.358 | ng    | 97        |
| 21) 4-Bromophenyl-phenylether | 15.929 | 248  | 1954     | 0.388 | ng    | # 74      |
| 22) Hexachlorobenzene         | 16.040 | 284  | 2442     | 0.413 | ng    | 97        |
| 23) Atrazine                  | 16.227 | 200  | 1233     | 0.344 | ng    | 97        |
| 24) Pentachlorophenol         | 16.400 | 266  | 742      | 0.289 | ng    | 87        |
| 25) Phenanthrene              | 16.760 | 178  | 9217     | 0.390 | ng    | 100       |
| 26) Anthracene                | 16.860 | 178  | 7974     | 0.373 | ng    | 100       |
| 28) Fluoranthene              | 18.812 | 202  | 11723    | 0.368 | ng    | 99        |
| 30) Pyrene                    | 19.179 | 202  | 11845    | 0.410 | ng    | 100       |
| 32) Benzo(a)anthracene        | 20.956 | 228  | 10025    | 0.366 | ng    | 100       |
| 33) Chrysene                  | 21.001 | 228  | 11323    | 0.401 | ng    | 99        |
| 34) Bis(2-ethylhexyl)phtha... | 20.929 | 149  | 3811     | 0.352 | ng    | 99        |
| 36) Indeno(1,2,3-cd)pyrene    | 25.099 | 276  | 11352    | 0.374 | ng    | 98        |
| 37) Benzo(b)fluoranthene      | 22.448 | 252  | 12967    | 0.456 | ng    | 100       |
| 38) Benzo(k)fluoranthene      | 22.488 | 252  | 11373    | 0.407 | ng    | 99        |
| 39) Benzo(a)pyrene            | 22.974 | 252  | 8498     | 0.363 | ng    | 98        |
| 40) Dibenzo(a,h)anthracene    | 25.120 | 278  | 8673     | 0.362 | ng    | 98        |
| 41) Benzo(g,h,i)perylene      | 25.716 | 276  | 9224     | 0.368 | ng    | 99        |

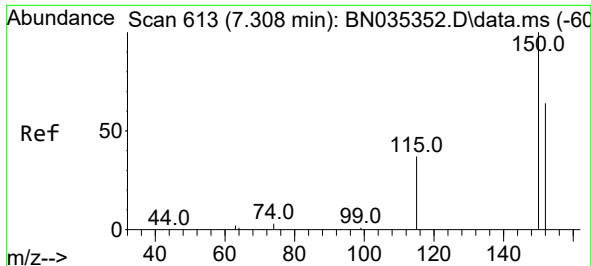
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN120424\  
Data File : BN035413.D  
Acq On : 03 Dec 2024 21:11  
Operator : RC/JU  
Sample : SSTDCCC0.4  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

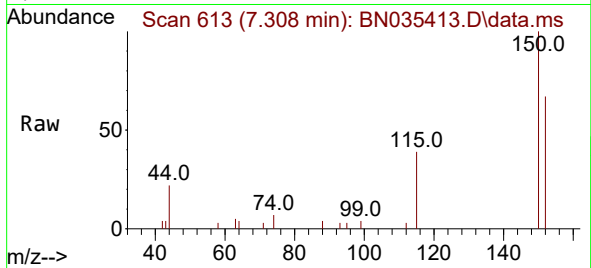
Quant Time: Dec 03 22:06:25 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Nov 27 23:03:24 2024  
Response via : Initial Calibration



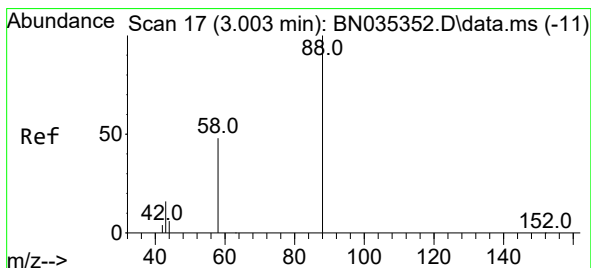
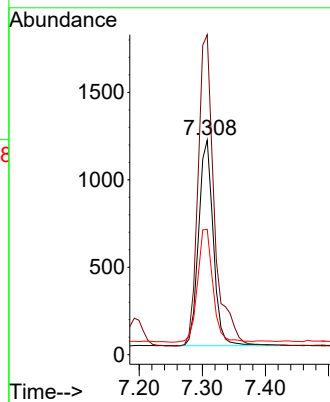
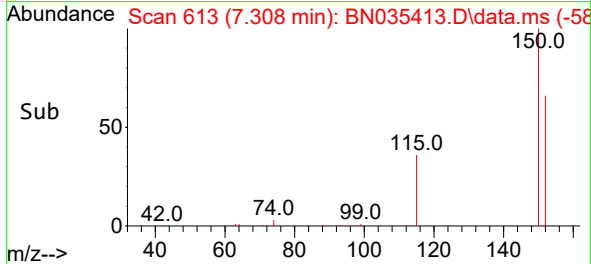


#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.308 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: BN035413.D  
Acq: 03 Dec 2024 21:11

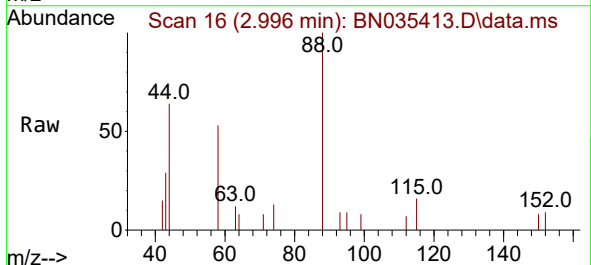
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC



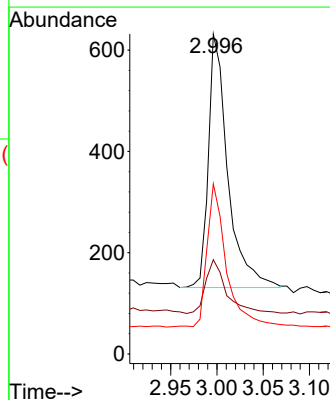
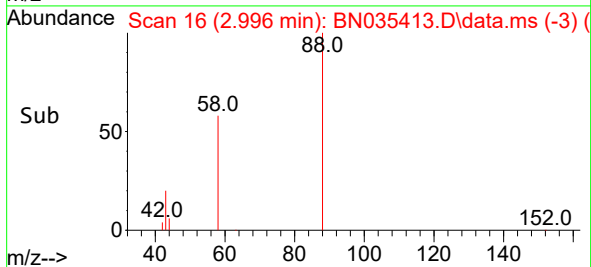
Tgt Ion:152 Resp: 1905  
Ion Ratio Lower Upper  
152 100  
150 149.1 124.0 186.0  
115 58.4 49.6 74.4

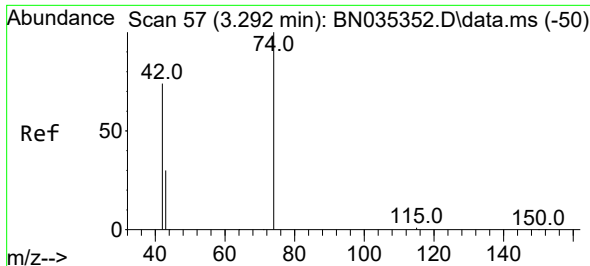


#2  
1,4-Dioxane  
Concen: 0.401 ng  
RT: 2.996 min Scan# 16  
Delta R.T. -0.007 min  
Lab File: BN035413.D  
Acq: 03 Dec 2024 21:11



Tgt Ion: 88 Resp: 731  
Ion Ratio Lower Upper  
88 100  
43 22.7 17.2 25.8  
58 56.6 44.5 66.7

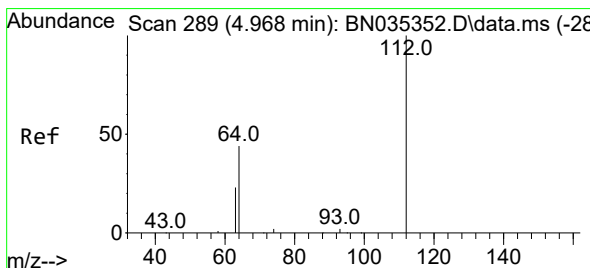
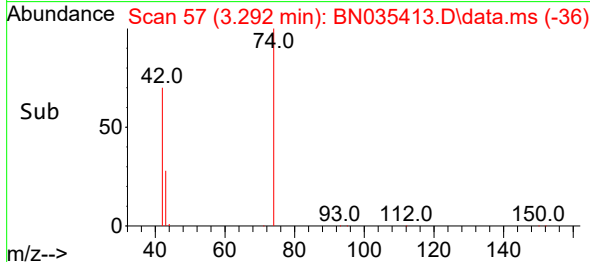
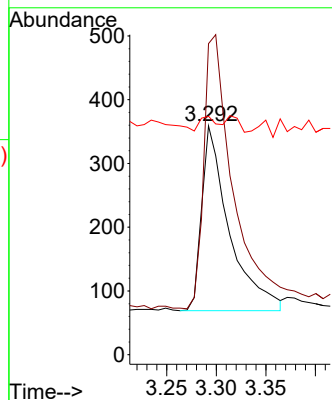
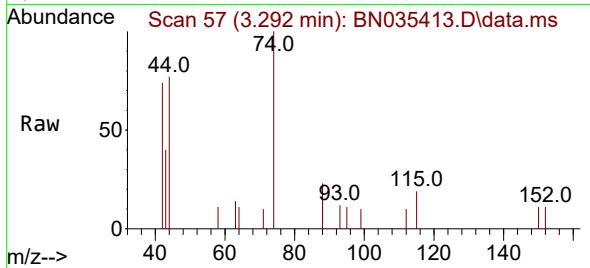




#3  
n-Nitrosodimethylamine  
Concen: 0.370 ng  
RT: 3.292 min Scan# 51  
Delta R.T. 0.000 min  
Lab File: BN035413.D  
Acq: 03 Dec 2024 21:11

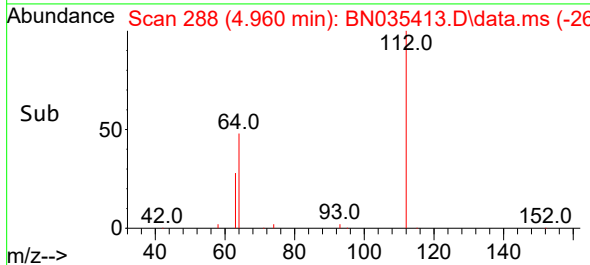
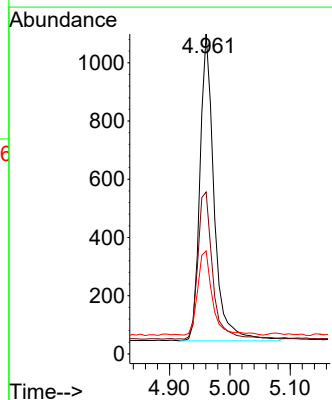
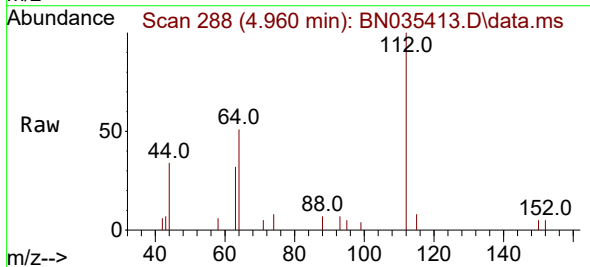
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

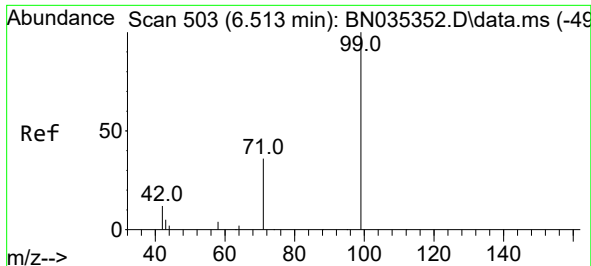
Tgt Ion: 42 Resp: 561  
Ion Ratio Lower Upper  
42 100  
74 167.4 124.9 187.3  
44 5.0 2.2 3.4#



#4  
2-Fluorophenol  
Concen: 0.362 ng  
RT: 4.960 min Scan# 288  
Delta R.T. -0.007 min  
Lab File: BN035413.D  
Acq: 03 Dec 2024 21:11

Tgt Ion: 112 Resp: 1727  
Ion Ratio Lower Upper  
112 100  
64 50.1 39.8 59.8  
63 28.4 21.0 31.6

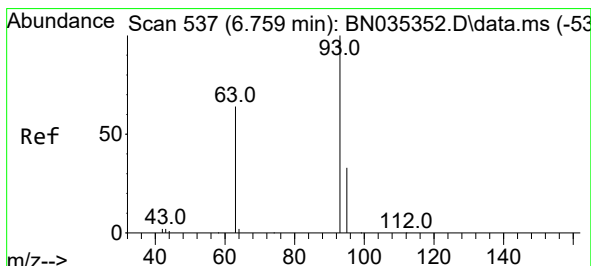
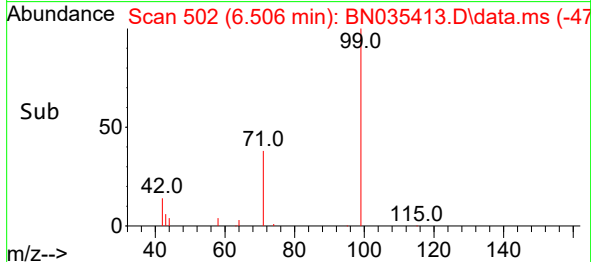
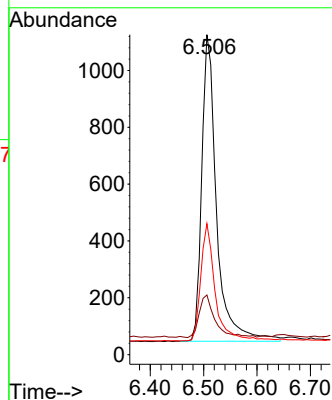
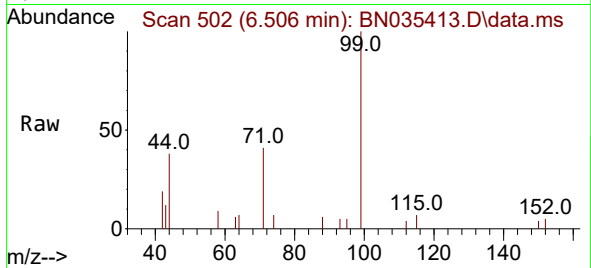




#5  
Phenol-d6  
Concen: 0.364 ng  
RT: 6.506 min Scan# 50  
Delta R.T. -0.007 min  
Lab File: BN035413.D  
Acq: 03 Dec 2024 21:11

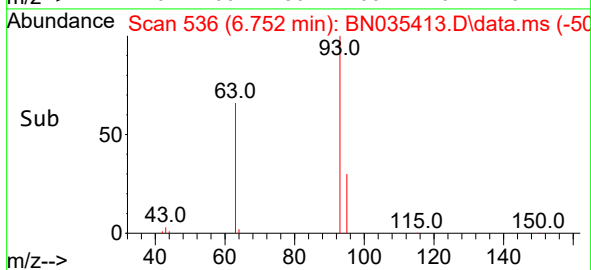
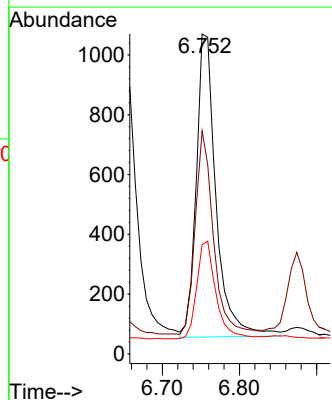
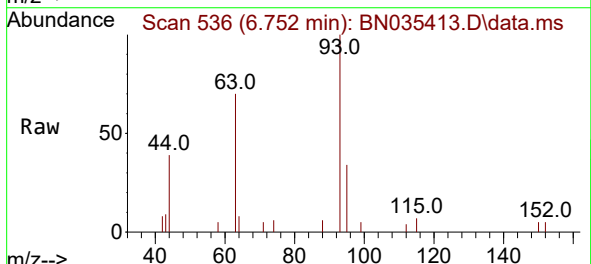
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 99    | Resp: | 2086  |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 15.0  | 11.4  | 17.2  |
| 71       | 37.5  | 29.3  | 43.9  |

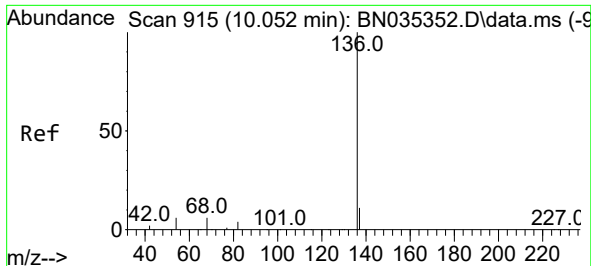


#6  
bis(2-Chloroethyl)ether  
Concen: 0.376 ng  
RT: 6.752 min Scan# 536  
Delta R.T. -0.007 min  
Lab File: BN035413.D  
Acq: 03 Dec 2024 21:11

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 93    | Resp: | 1811  |
| Ion      | Ratio | Lower | Upper |
| 93       | 100   |       |       |
| 63       | 61.8  | 50.4  | 75.6  |
| 95       | 31.1  | 25.7  | 38.5  |



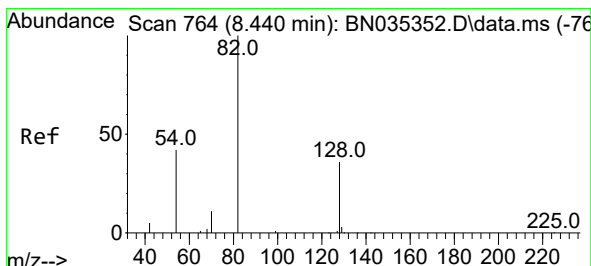
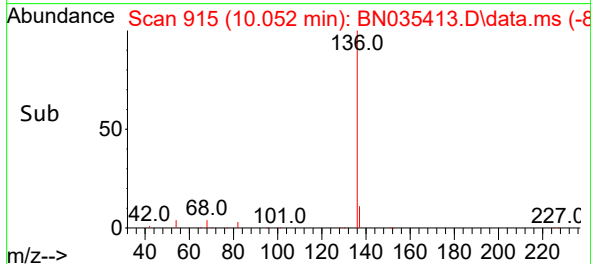
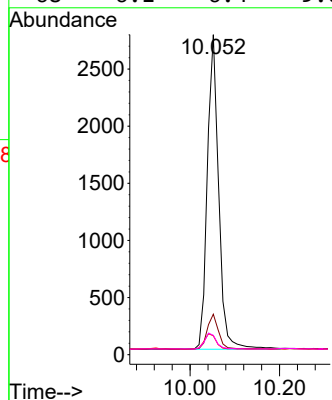
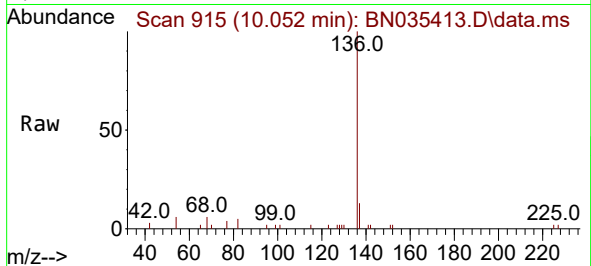




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.052 min Scan# 915  
Delta R.T. 0.000 min  
Lab File: BN035413.D  
Acq: 03 Dec 2024 21:11

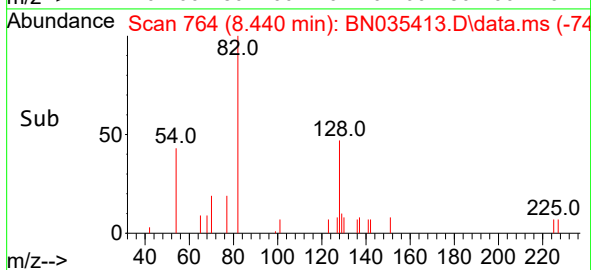
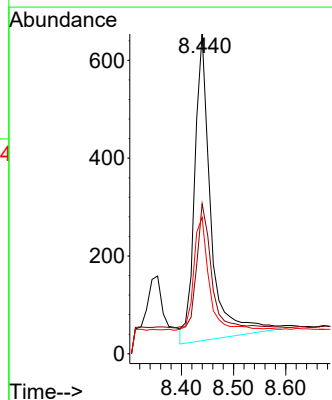
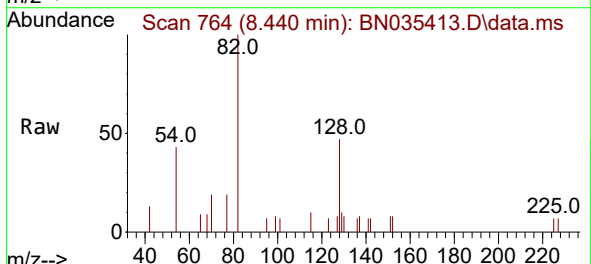
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

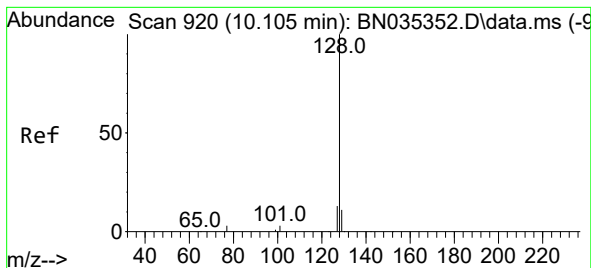
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 4842  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 12.7  | 10.2  | 15.2  |
| 54       | 5.9   | 6.1   | 9.1#  |
| 68       | 6.1   | 6.4   | 9.6#  |



#8  
Nitrobenzene-d5  
Concen: 0.462 ng  
RT: 8.440 min Scan# 764  
Delta R.T. 0.000 min  
Lab File: BN035413.D  
Acq: 03 Dec 2024 21:11

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 1366  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 46.9  | 33.4  | 50.0  |
| 54       | 42.7  | 36.7  | 55.1  |





#9

Naphthalene

Concen: 0.400 ng

RT: 10.095 min Scan# 91

Delta R.T. -0.011 min

Lab File: BN035413.D

Acq: 03 Dec 2024 21:11

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC

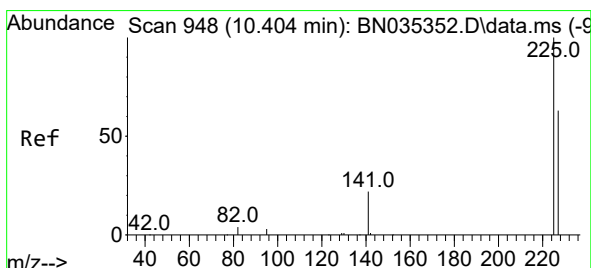
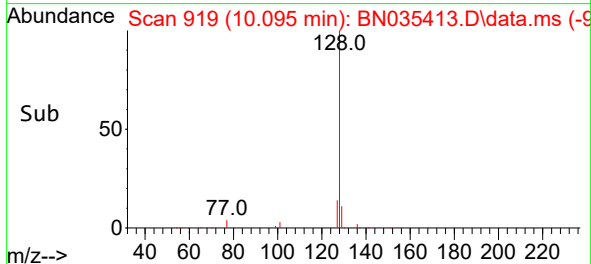
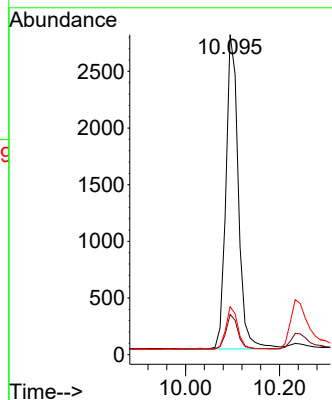
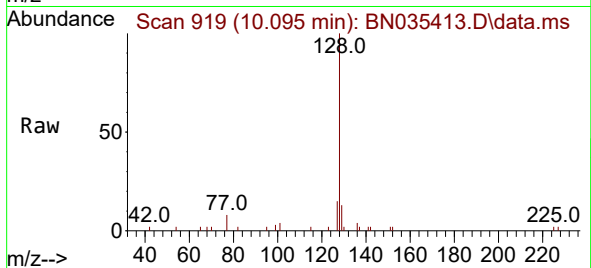
Tgt Ion:128 Resp: 5107

Ion Ratio Lower Upper

128 100

129 12.6 9.8 14.6

127 15.0 11.4 17.2



#10

Hexachlorobutadiene

Concen: 0.438 ng

RT: 10.394 min Scan# 947

Delta R.T. -0.011 min

Lab File: BN035413.D

Acq: 03 Dec 2024 21:11

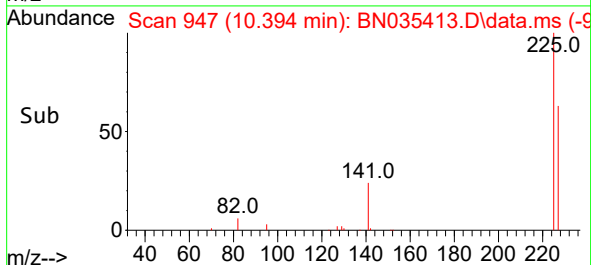
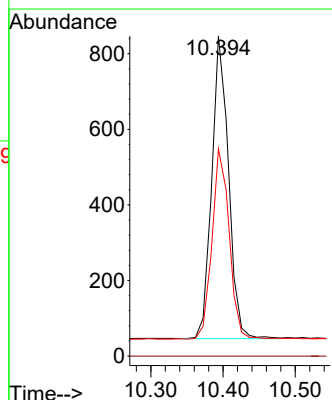
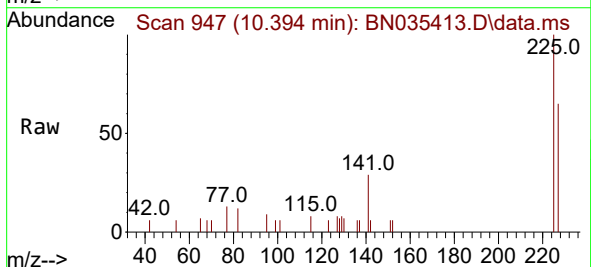
Tgt Ion:225 Resp: 1291

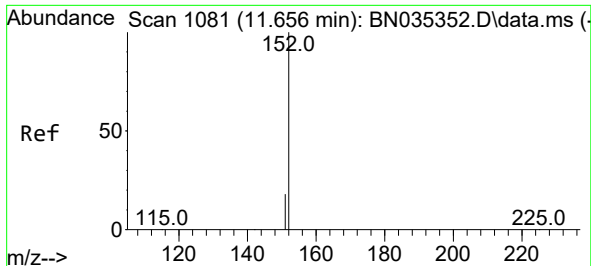
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 64.3 51.3 76.9

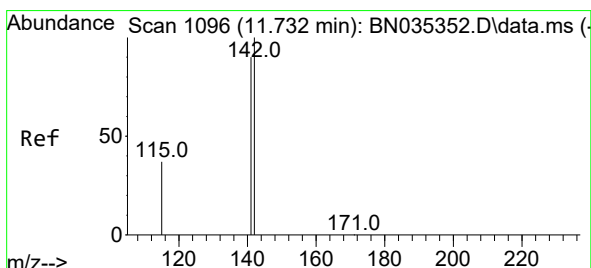
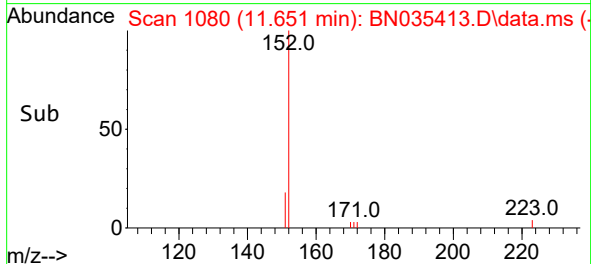
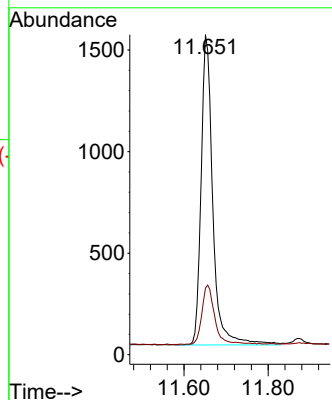
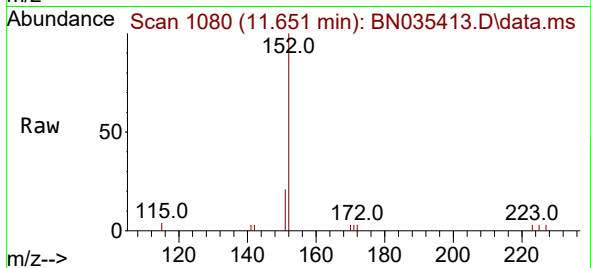




#11  
2-Methylnaphthalene-d10  
Concen: 0.389 ng  
RT: 11.651 min Scan# 1080  
Delta R.T. -0.005 min  
Lab File: BN035413.D  
Acq: 03 Dec 2024 21:11

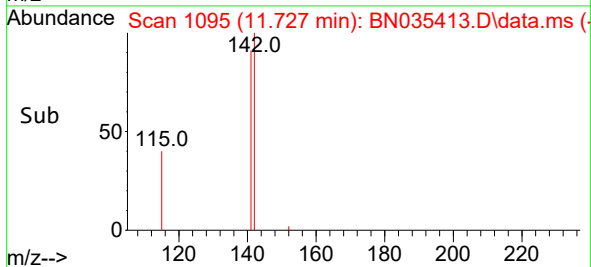
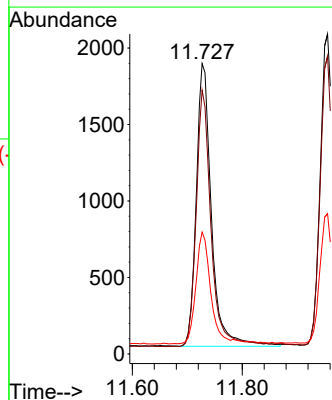
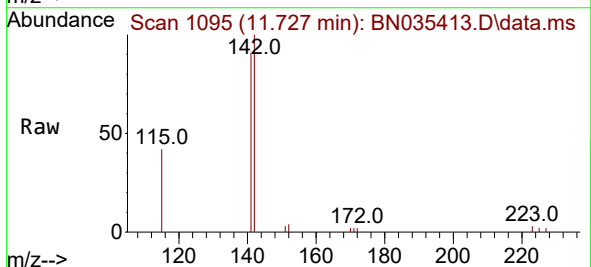
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

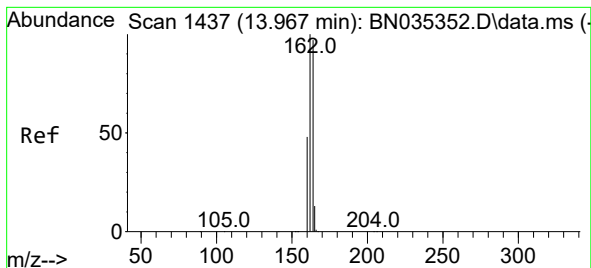
Tgt Ion:152 Resp: 2948  
Ion Ratio Lower Upper  
152 100  
151 20.7 16.6 25.0



#12  
2-Methylnaphthalene  
Concen: 0.389 ng  
RT: 11.727 min Scan# 1095  
Delta R.T. -0.005 min  
Lab File: BN035413.D  
Acq: 03 Dec 2024 21:11

Tgt Ion:142 Resp: 3555  
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: 13.957 min Scan# 14

Delta R.T. -0.011 min

Lab File: BN035413.D

Acq: 03 Dec 2024 21:11

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC

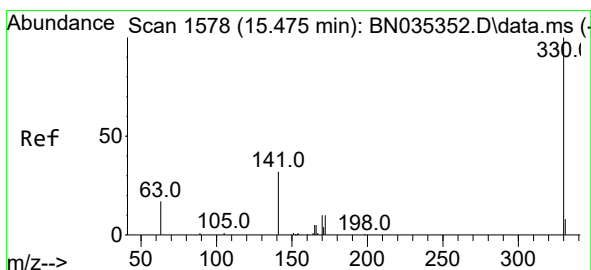
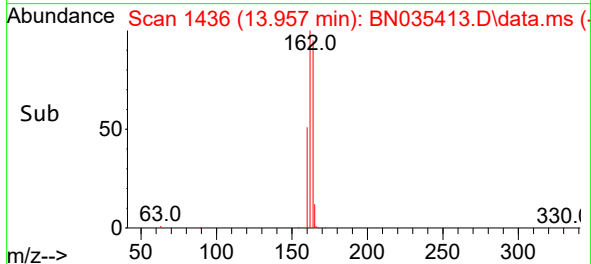
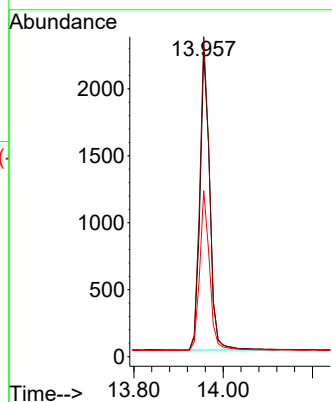
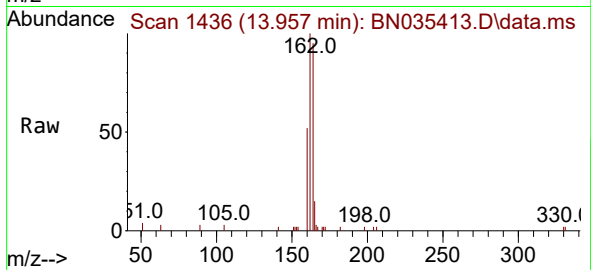
Tgt Ion:164 Resp: 3417

Ion Ratio Lower Upper

164 100

162 105.1 82.2 123.2

160 54.6 40.1 60.1



#14

2,4,6-Tribromophenol

Concen: 0.360 ng

RT: 15.475 min Scan# 1578

Delta R.T. 0.000 min

Lab File: BN035413.D

Acq: 03 Dec 2024 21:11

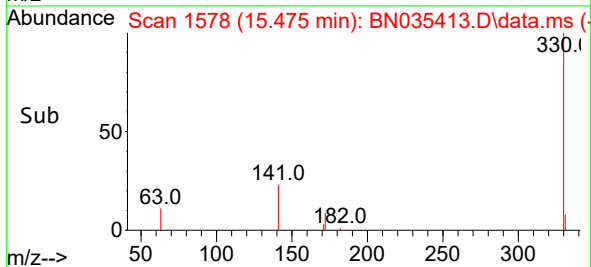
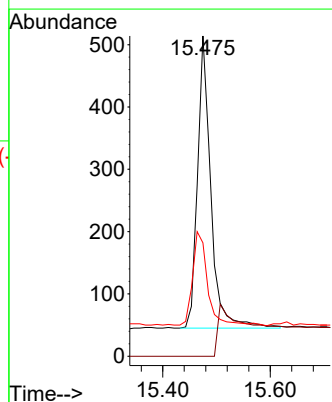
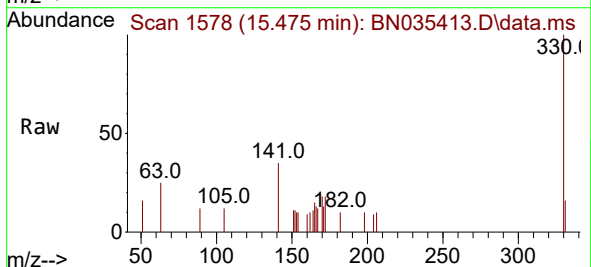
Tgt Ion:330 Resp: 874

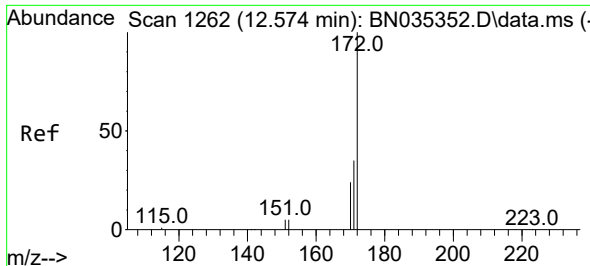
Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

141 35.7 26.6 40.0

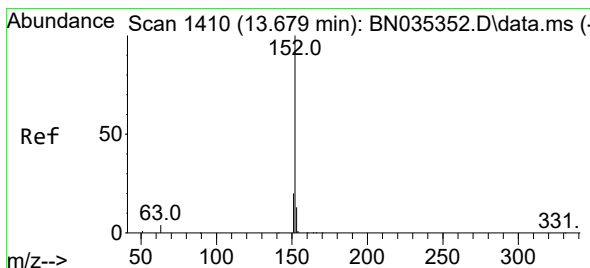
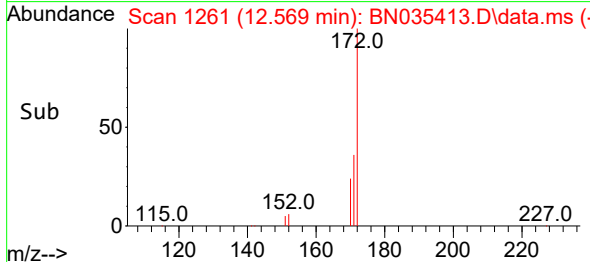
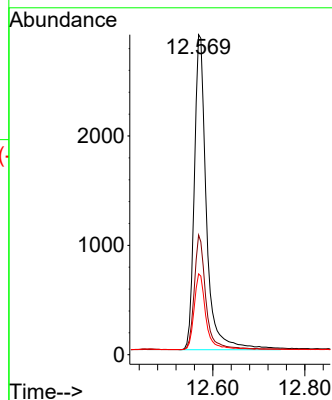
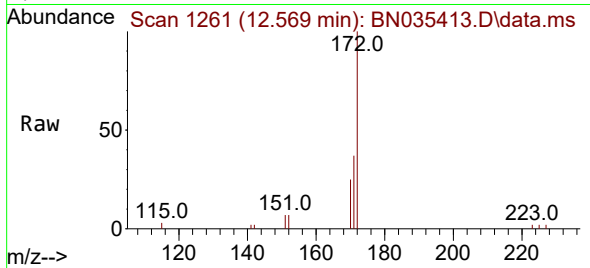




#15  
2-Fluorobiphenyl  
Concen: 0.409 ng  
RT: 12.569 min Scan# 11  
Delta R.T. -0.005 min  
Lab File: BN035413.D  
Acq: 03 Dec 2024 21:11

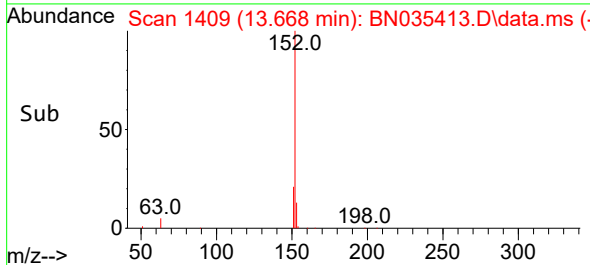
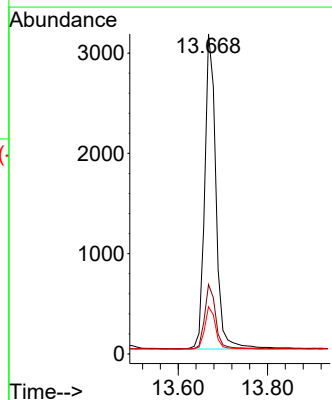
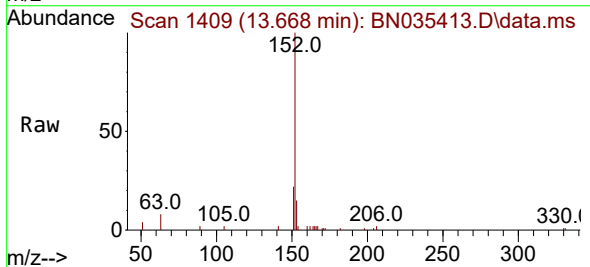
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

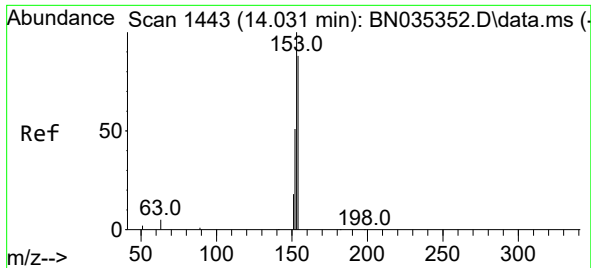
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 172   | Resp: | 5285 |
| Ion Ratio | Lower | Upper |      |
| 172       | 100   |       |      |
| 171       | 37.4  | 29.0  | 43.4 |
| 170       | 25.2  | 19.8  | 29.8 |



#16  
Acenaphthylene  
Concen: 0.381 ng  
RT: 13.668 min Scan# 1409  
Delta R.T. -0.011 min  
Lab File: BN035413.D  
Acq: 03 Dec 2024 21:11

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 152   | Resp: | 5470 |
| Ion Ratio | Lower | Upper |      |
| 152       | 100   |       |      |
| 151       | 19.8  | 16.2  | 24.2 |
| 153       | 13.2  | 10.4  | 15.6 |

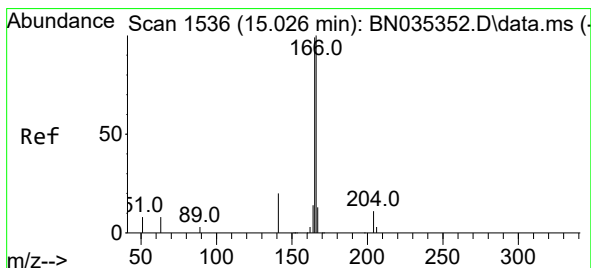
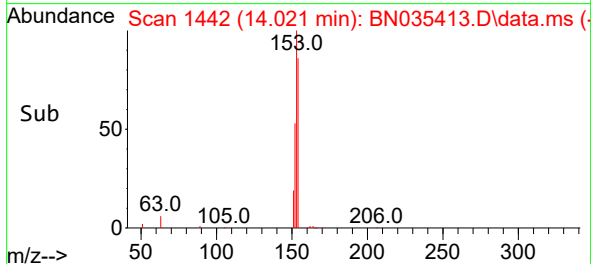
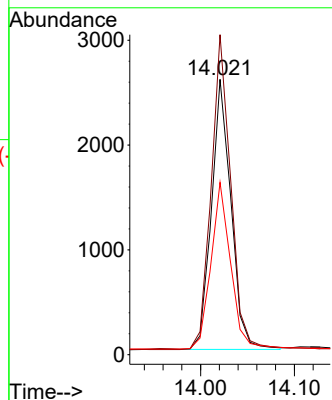
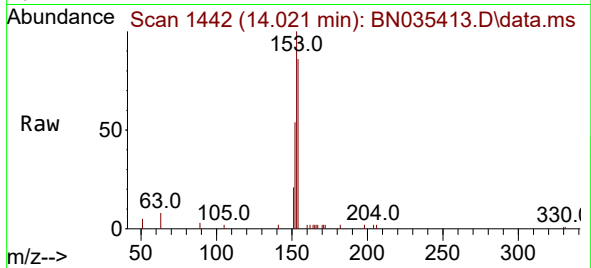




#17  
Acenaphthene  
Concen: 0.392 ng  
RT: 14.021 min Scan# 1442  
Delta R.T. -0.011 min  
Lab File: BN035413.D  
Acq: 03 Dec 2024 21:11

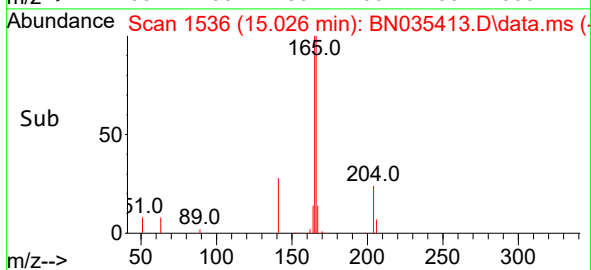
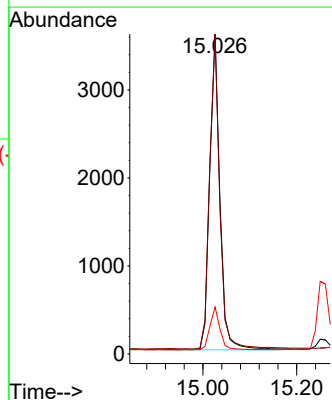
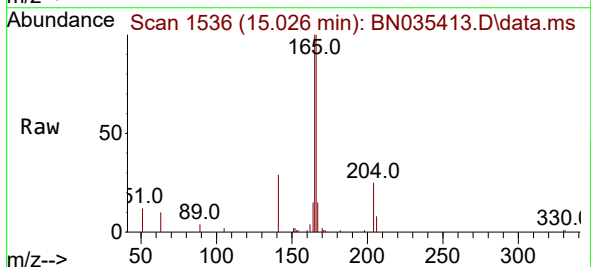
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

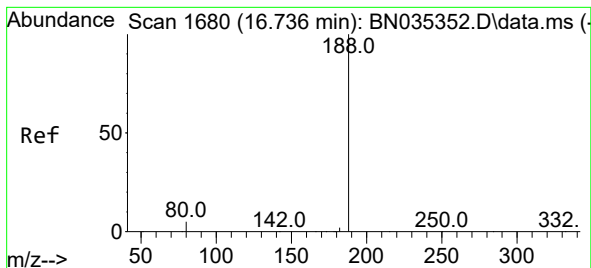
Tgt Ion:154 Resp: 3732  
Ion Ratio Lower Upper  
154 100  
153 117.7 92.6 139.0  
152 62.7 49.0 73.6



#18  
Fluorene  
Concen: 0.395 ng  
RT: 15.026 min Scan# 1536  
Delta R.T. 0.000 min  
Lab File: BN035413.D  
Acq: 03 Dec 2024 21:11

Tgt Ion:166 Resp: 5390  
Ion Ratio Lower Upper  
166 100  
165 99.3 79.7 119.5  
167 13.5 10.8 16.2

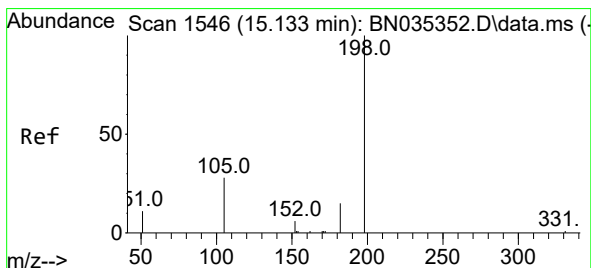
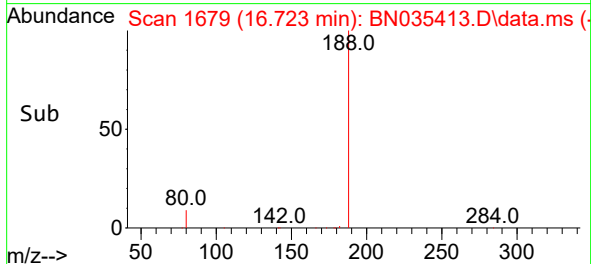
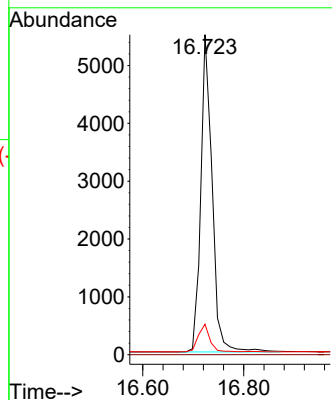
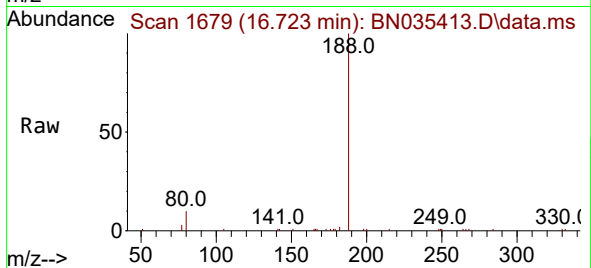




#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 16.723 min Scan# 1679  
Delta R.T. -0.012 min  
Lab File: BN035413.D  
Acq: 03 Dec 2024 21:11

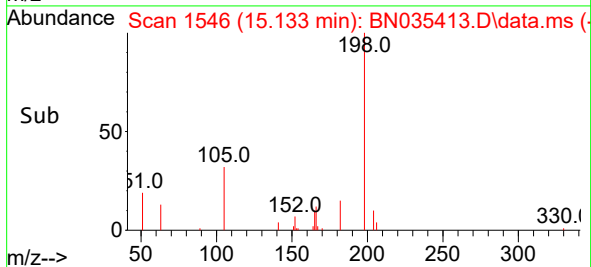
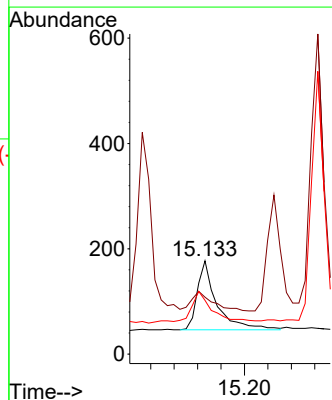
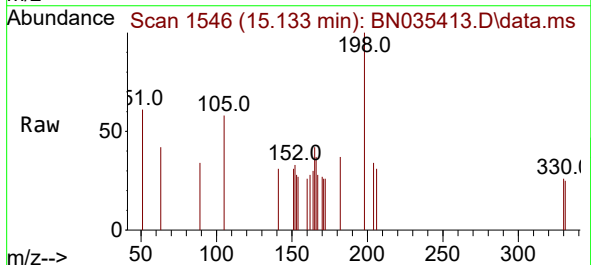
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

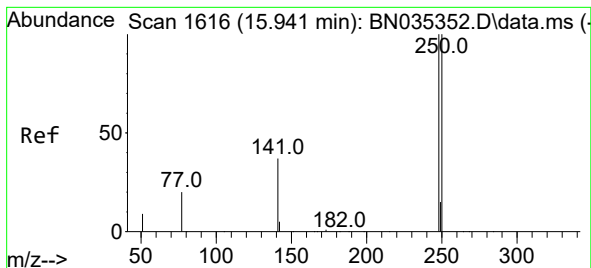
Tgt Ion:188 Resp: 8599  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 9.5 4.6 6.8#



#20  
4,6-Dinitro-2-methylphenol  
Concen: 0.358 ng  
RT: 15.133 min Scan# 1546  
Delta R.T. -0.000 min  
Lab File: BN035413.D  
Acq: 03 Dec 2024 21:11

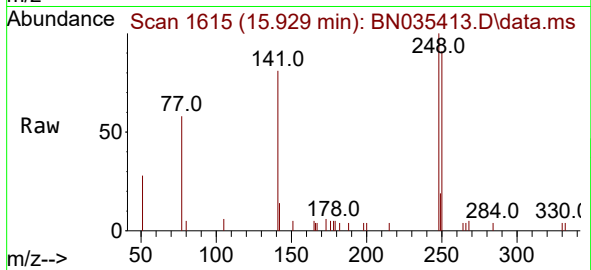
Tgt Ion:198 Resp: 303  
Ion Ratio Lower Upper  
198 100  
51 61.0 46.5 69.7  
105 57.6 45.3 67.9



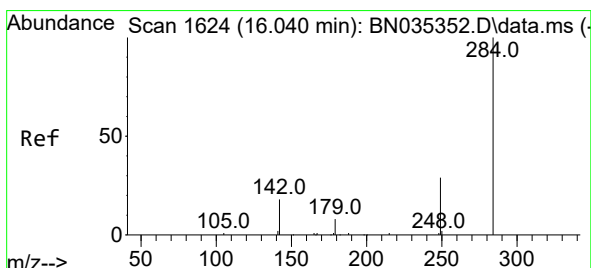
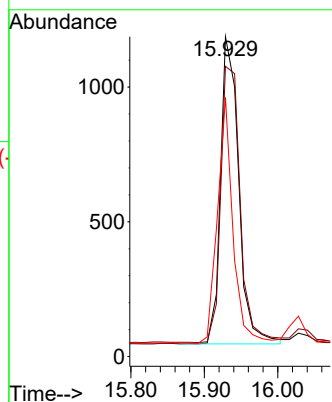
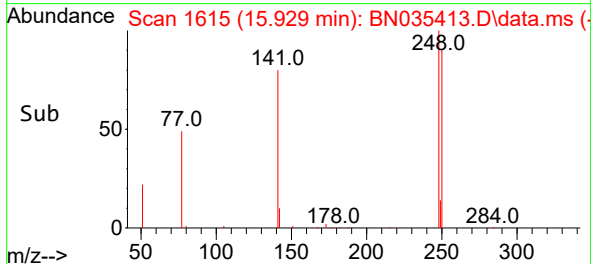


#21  
4-Bromophenyl-phenylether  
Concen: 0.388 ng  
RT: 15.929 min Scan# 1615  
Delta R.T. -0.012 min  
Lab File: BN035413.D  
Acq: 03 Dec 2024 21:11

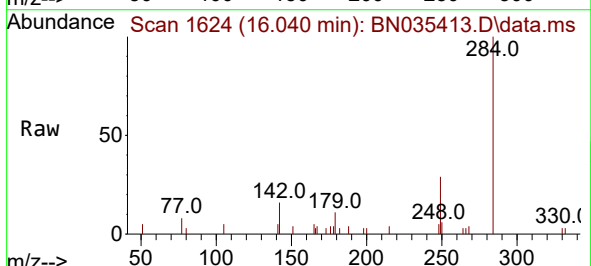
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC



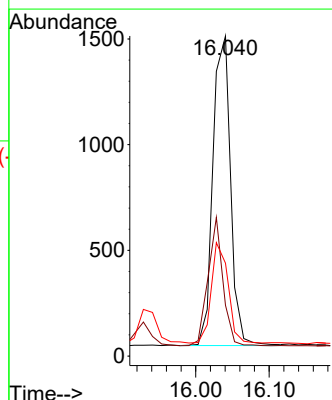
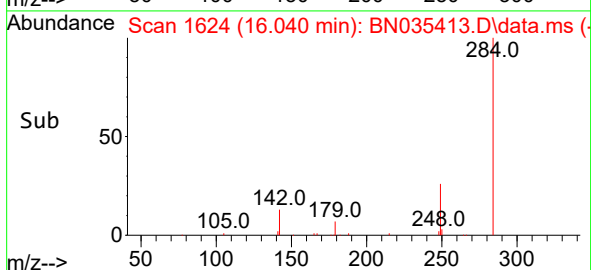
Tgt Ion:248 Resp: 1954  
Ion Ratio Lower Upper  
248 100  
250 90.7 80.6 120.8  
141 81.0 31.5 47.3#



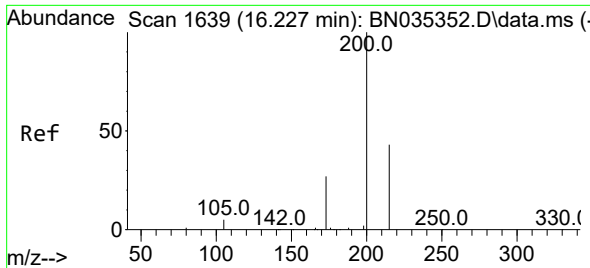
#22  
Hexachlorobenzene  
Concen: 0.413 ng  
RT: 16.040 min Scan# 1624  
Delta R.T. 0.000 min  
Lab File: BN035413.D  
Acq: 03 Dec 2024 21:11



Tgt Ion:284 Resp: 2442  
Ion Ratio Lower Upper  
284 100  
142 35.5 26.7 40.1  
249 32.4 24.6 36.8



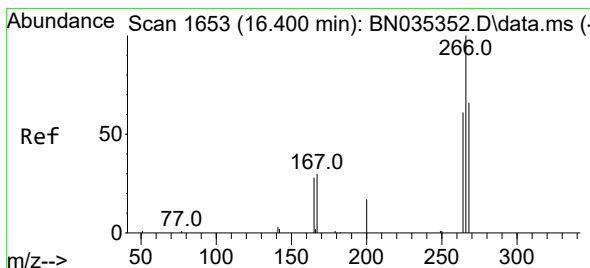
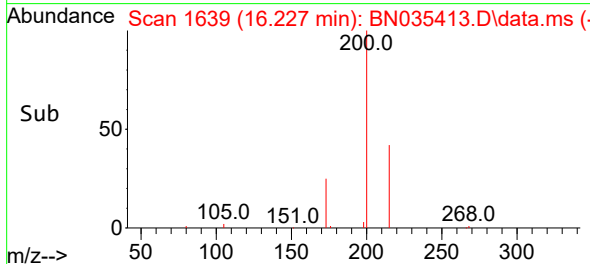
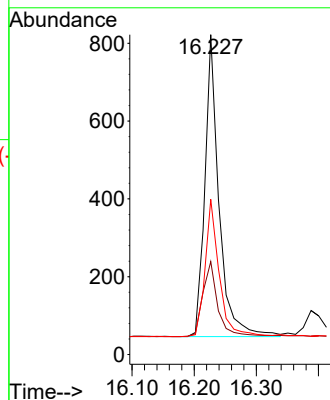
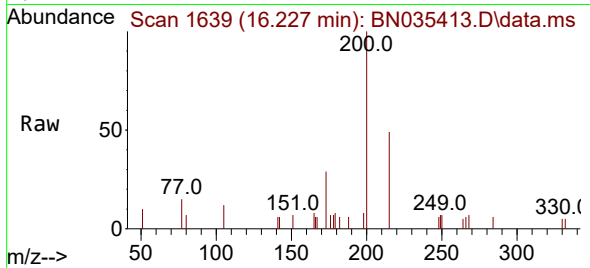




#23  
 Atrazine  
 Concen: 0.344 ng  
 RT: 16.227 min Scan# 1639  
 Delta R.T. 0.000 min  
 Lab File: BN035413.D  
 Acq: 03 Dec 2024 21:11

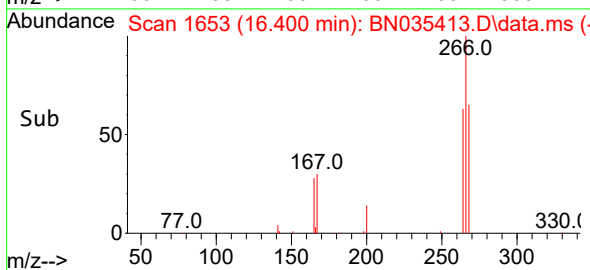
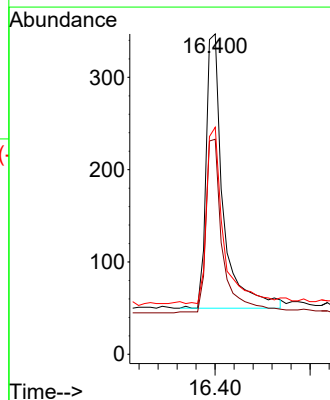
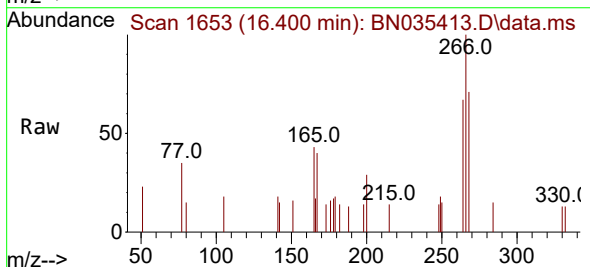
Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4EC

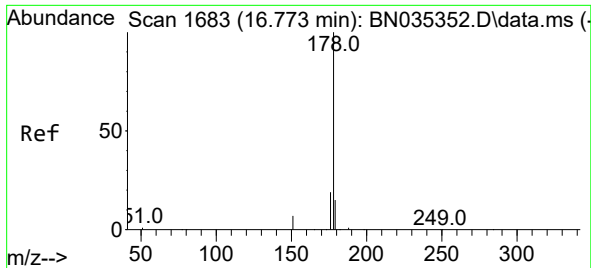
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 200   | Resp: | 1233 |
| Ion Ratio | Lower | Upper |      |
| 200       | 100   |       |      |
| 173       | 29.1  | 24.1  | 36.1 |
| 215       | 48.5  | 36.9  | 55.3 |



#24  
 Pentachlorophenol  
 Concen: 0.289 ng  
 RT: 16.400 min Scan# 1653  
 Delta R.T. 0.000 min  
 Lab File: BN035413.D  
 Acq: 03 Dec 2024 21:11

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 266   | Resp: | 742  |
| Ion Ratio | Lower | Upper |      |
| 266       | 100   |       |      |
| 264       | 62.0  | 42.3  | 63.5 |
| 268       | 63.5  | 43.3  | 64.9 |

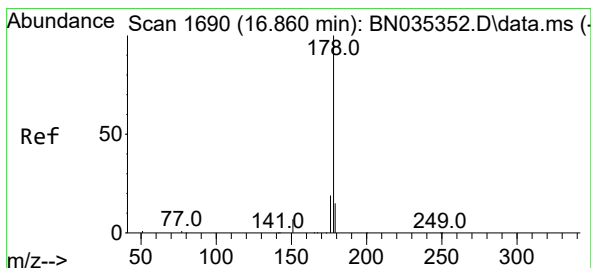
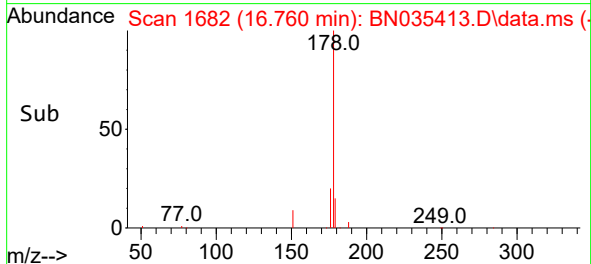
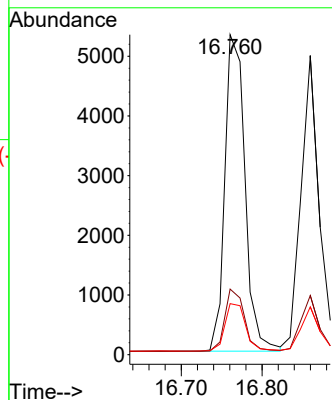
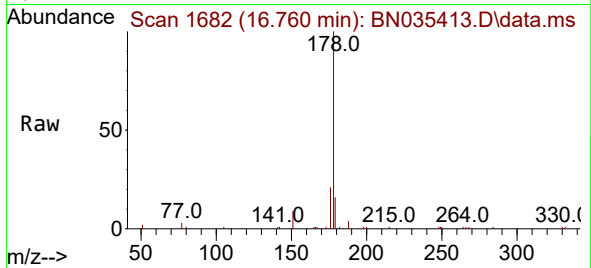




#25  
Phenanthrene  
Concen: 0.390 ng  
RT: 16.760 min Scan# 1682  
Delta R.T. -0.012 min  
Lab File: BN035413.D  
Acq: 03 Dec 2024 21:11

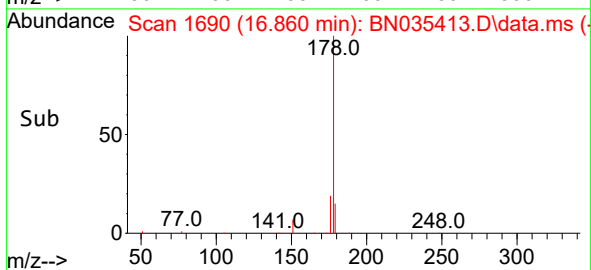
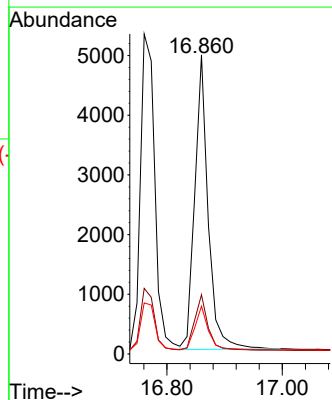
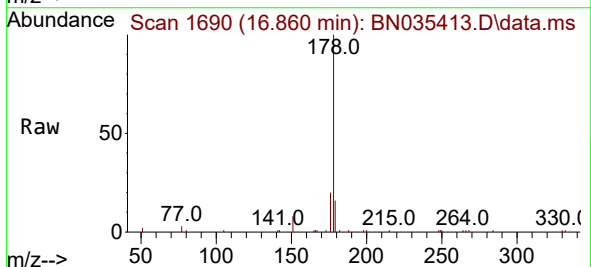
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

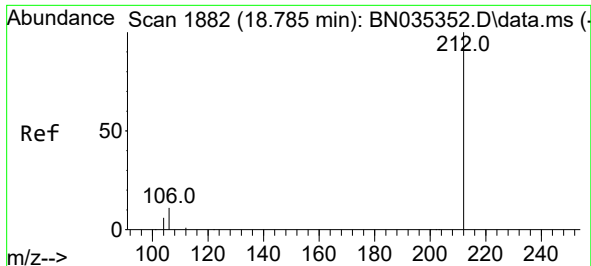
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 178   | Resp: | 9217 |
| Ion Ratio | Lower | Upper |      |
| 178       | 100   |       |      |
| 176       | 19.1  | 15.4  | 23.2 |
| 179       | 15.4  | 12.3  | 18.5 |



#26  
Anthracene  
Concen: 0.373 ng  
RT: 16.860 min Scan# 1690  
Delta R.T. 0.000 min  
Lab File: BN035413.D  
Acq: 03 Dec 2024 21:11

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 178   | Resp: | 7974 |
| Ion Ratio | Lower | Upper |      |
| 178       | 100   |       |      |
| 176       | 18.8  | 15.0  | 22.6 |
| 179       | 15.3  | 12.6  | 18.8 |

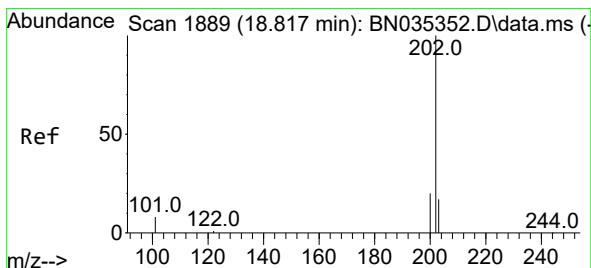
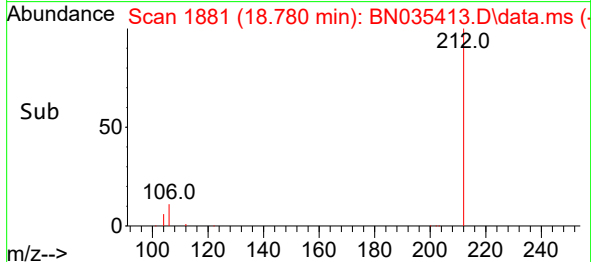
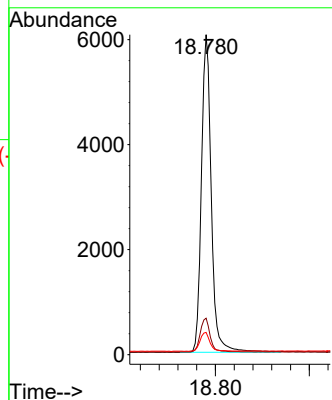
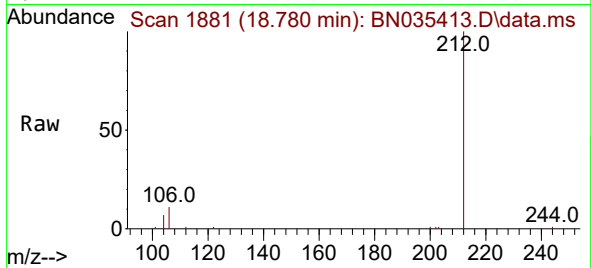




#27  
Fluoranthene-d10  
Concen: 0.361 ng  
RT: 18.780 min Scan# 1881  
Delta R.T. -0.005 min  
Lab File: BN035413.D  
Acq: 03 Dec 2024 21:11

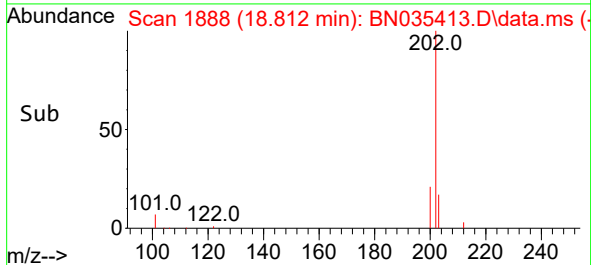
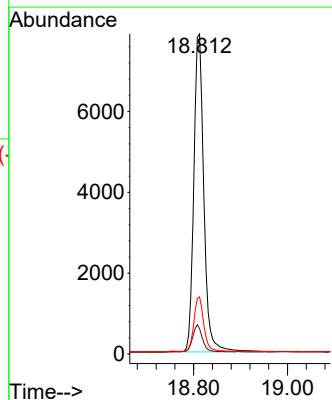
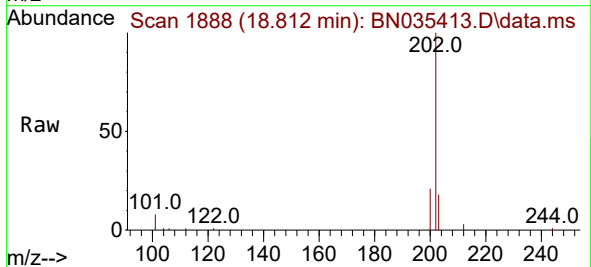
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

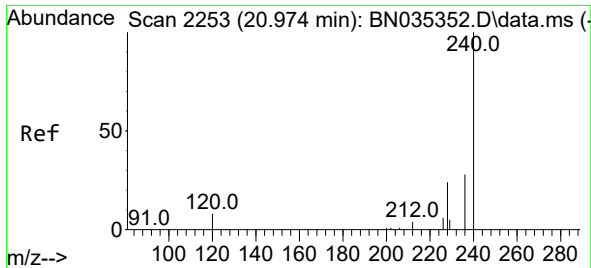
Tgt Ion:212 Resp: 8797  
Ion Ratio Lower Upper  
212 100  
106 10.7 9.2 13.8  
104 6.2 5.3 7.9



#28  
Fluoranthene  
Concen: 0.368 ng  
RT: 18.812 min Scan# 1888  
Delta R.T. -0.005 min  
Lab File: BN035413.D  
Acq: 03 Dec 2024 21:11

Tgt Ion:202 Resp: 11723  
Ion Ratio Lower Upper  
202 100  
101 8.5 7.4 11.0  
203 16.8 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.965 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN035413.D

Acq: 03 Dec 2024 21:11

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC

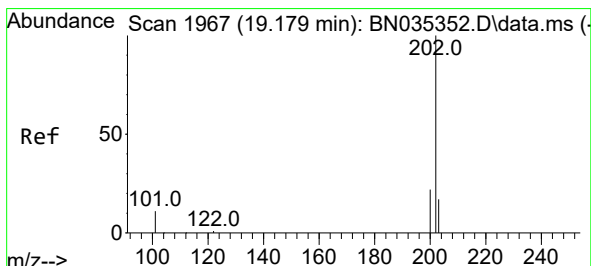
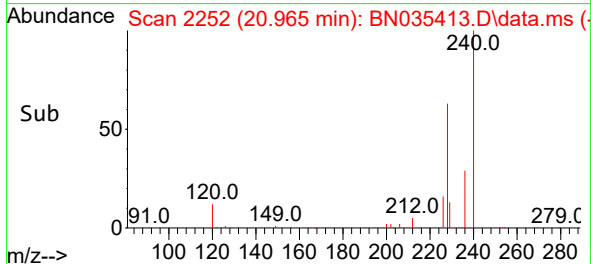
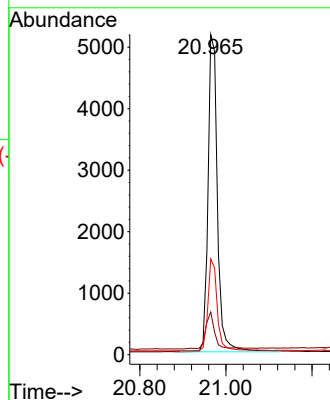
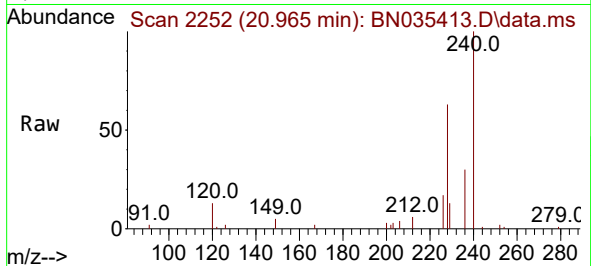
Tgt Ion:240 Resp: 7834

Ion Ratio Lower Upper

240 100

120 13.4 7.9 11.9#

236 29.9 22.9 34.3



#30

Pyrene

Concen: 0.410 ng

RT: 19.179 min Scan# 1967

Delta R.T. 0.000 min

Lab File: BN035413.D

Acq: 03 Dec 2024 21:11

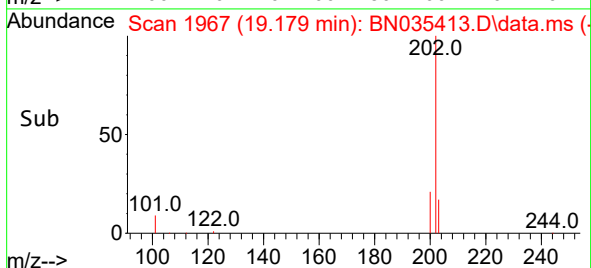
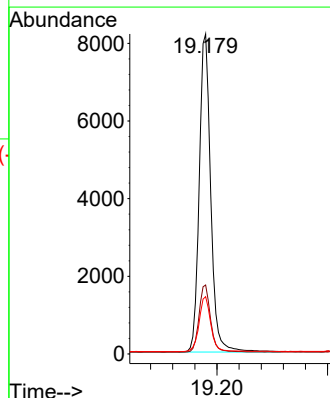
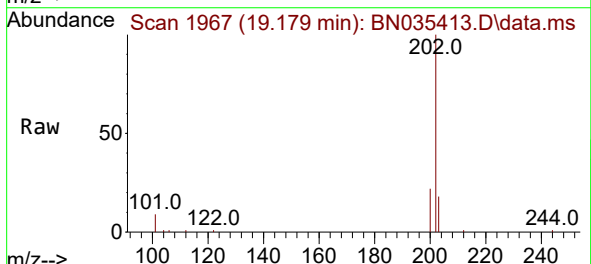
Tgt Ion:202 Resp: 11845

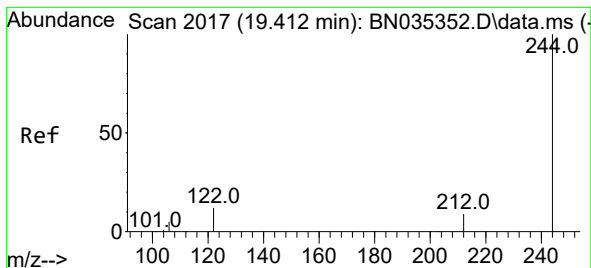
Ion Ratio Lower Upper

202 100

200 21.2 17.0 25.4

203 17.8 14.3 21.5





#31

Terphenyl-d14

Concen: 0.403 ng

RT: 19.412 min Scan# 2017

Delta R.T. 0.000 min

Lab File: BN035413.D

Acq: 03 Dec 2024 21:11

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC

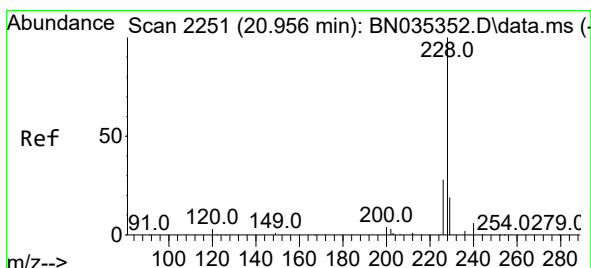
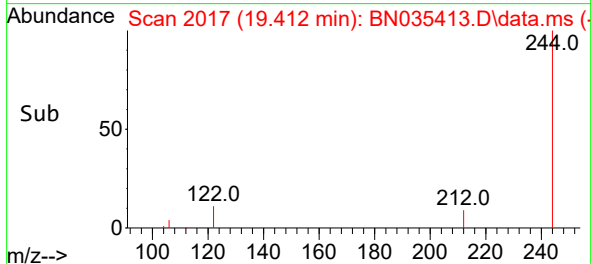
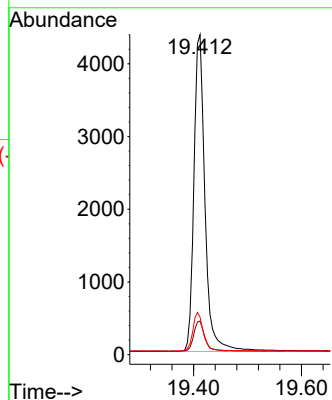
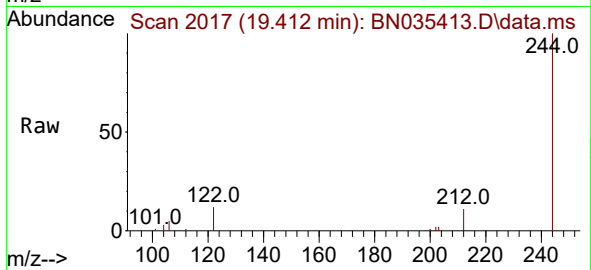
Tgt Ion:244 Resp: 6230

Ion Ratio Lower Upper

244 100

212 10.5 8.1 12.1

122 11.8 10.3 15.5



#32

Benzo(a)anthracene

Concen: 0.366 ng

RT: 20.956 min Scan# 2251

Delta R.T. 0.000 min

Lab File: BN035413.D

Acq: 03 Dec 2024 21:11

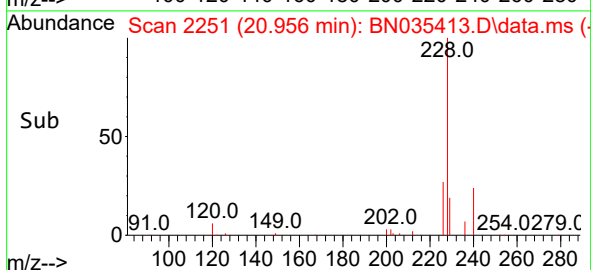
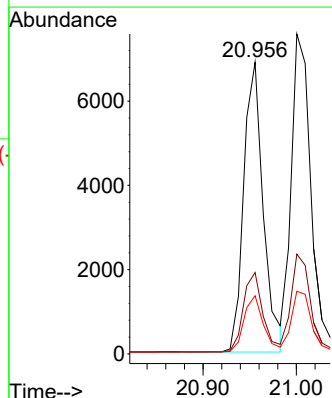
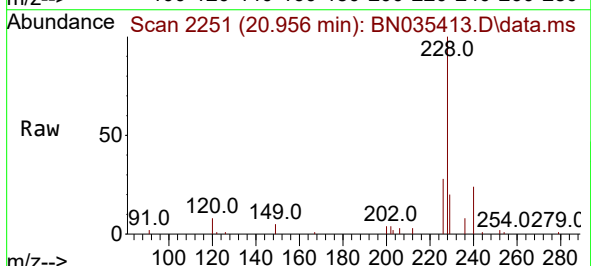
Tgt Ion:228 Resp: 10025

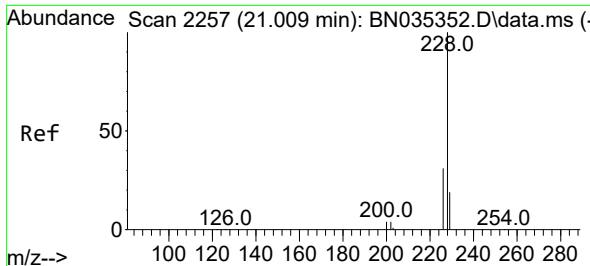
Ion Ratio Lower Upper

228 100

226 27.9 22.5 33.7

229 19.9 15.8 23.8

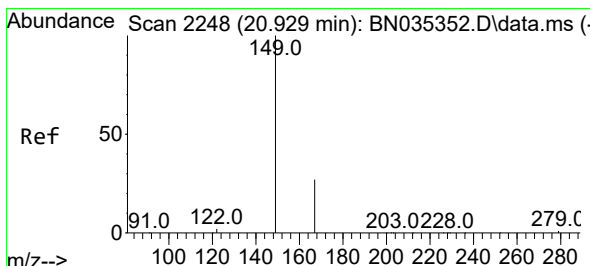
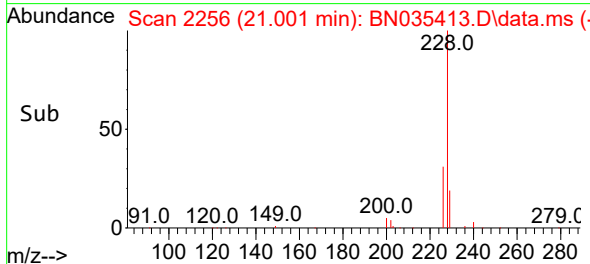
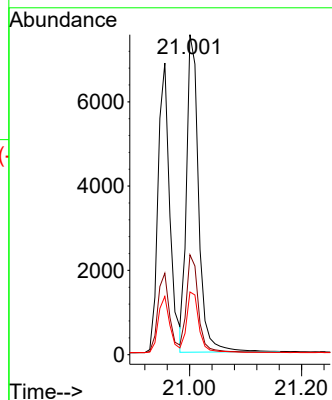
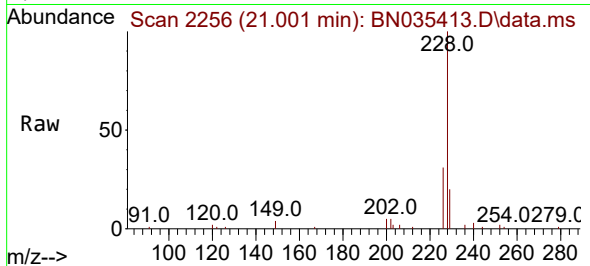




#33  
Chrysene  
Concen: 0.401 ng  
RT: 21.001 min Scan# 21  
Delta R.T. -0.009 min  
Lab File: BN035413.D  
Acq: 03 Dec 2024 21:11

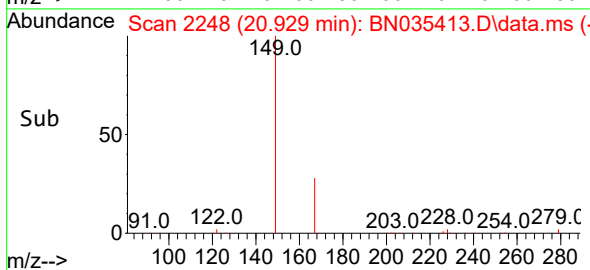
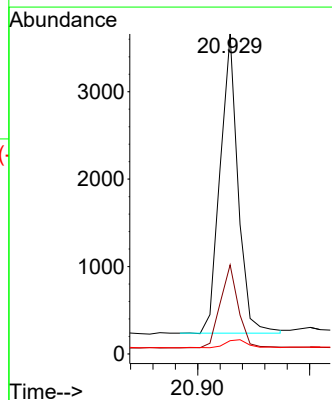
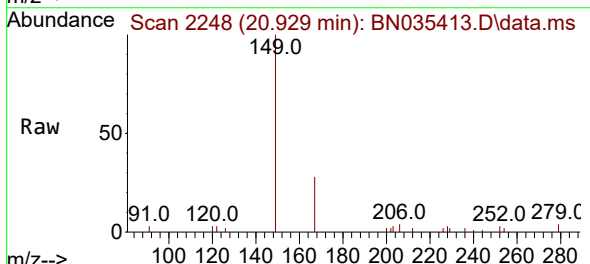
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

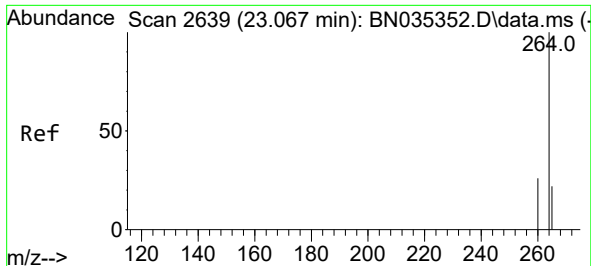
Tgt Ion:228 Resp: 11323  
Ion Ratio Lower Upper  
228 100  
226 31.2 24.6 37.0  
229 19.6 15.9 23.9



#34  
Bis(2-ethylhexyl)phthalate  
Concen: 0.352 ng  
RT: 20.929 min Scan# 2248  
Delta R.T. 0.000 min  
Lab File: BN035413.D  
Acq: 03 Dec 2024 21:11

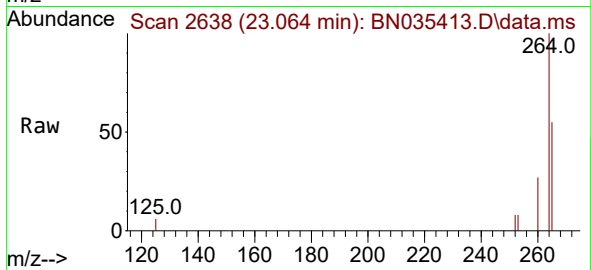
Tgt Ion:149 Resp: 3811  
Ion Ratio Lower Upper  
149 100  
167 28.4 22.2 33.4  
279 3.3 2.7 4.1



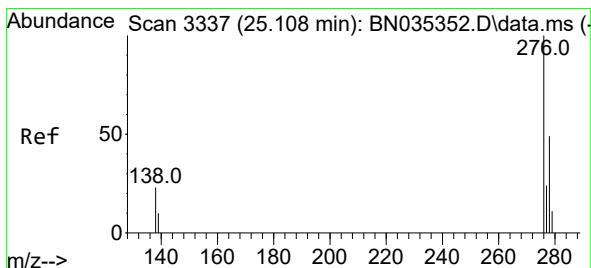
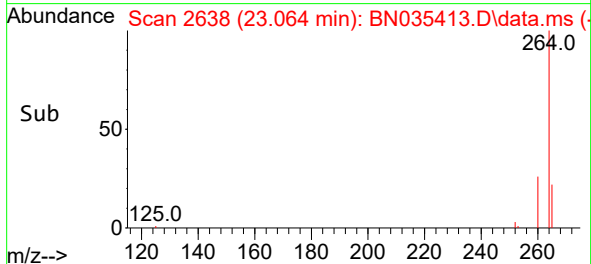
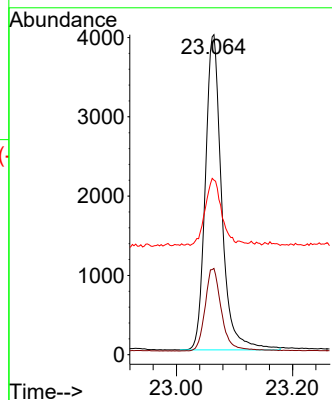


#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.064 min Scan# 2  
Delta R.T. -0.003 min  
Lab File: BN035413.D  
Acq: 03 Dec 2024 21:11

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

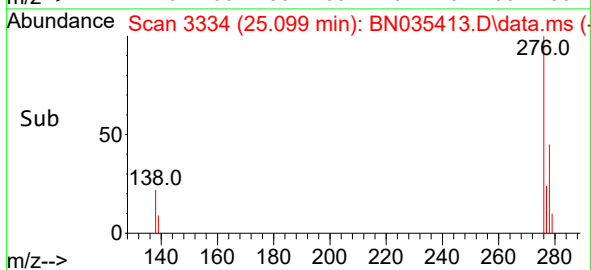
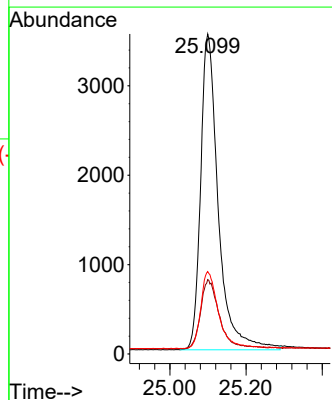
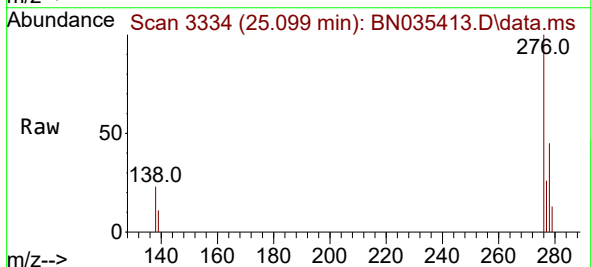


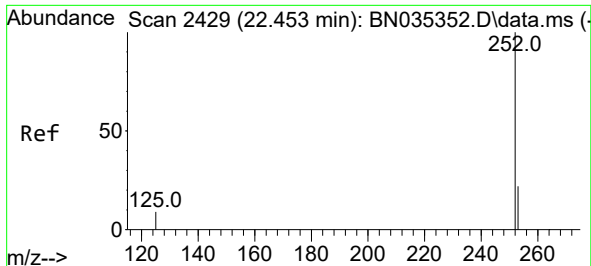
Tgt Ion:264 Resp: 7769  
Ion Ratio Lower Upper  
264 100  
260 27.0 21.4 32.2  
265 54.5 40.2 60.4



#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.374 ng  
RT: 25.099 min Scan# 3334  
Delta R.T. -0.009 min  
Lab File: BN035413.D  
Acq: 03 Dec 2024 21:11

Tgt Ion:276 Resp: 11352  
Ion Ratio Lower Upper  
276 100  
138 22.8 19.4 29.0  
277 24.4 19.8 29.6

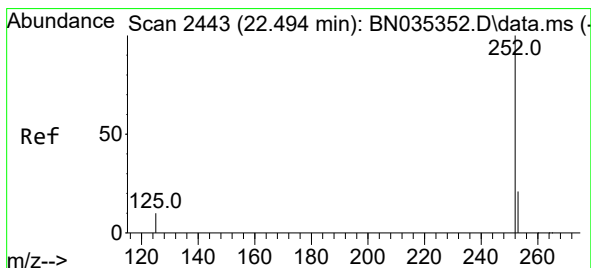
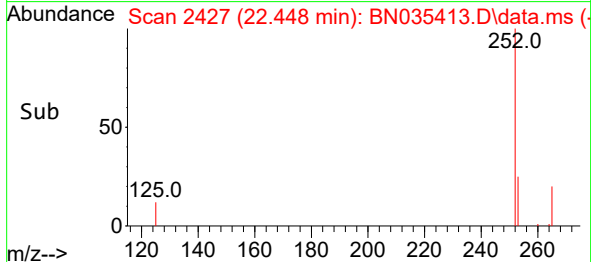
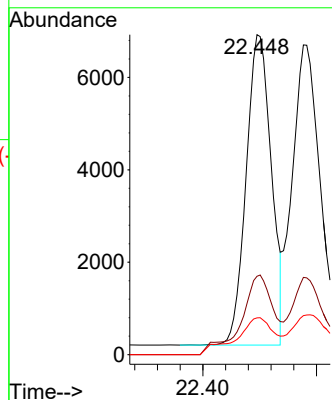
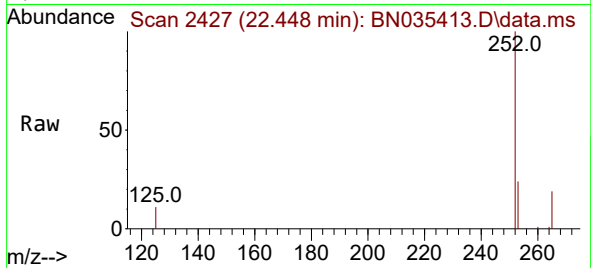




#37  
Benzo(b)fluoranthene  
Concen: 0.456 ng  
RT: 22.448 min Scan# 2427  
Delta R.T. -0.006 min  
Lab File: BN035413.D  
Acq: 03 Dec 2024 21:11

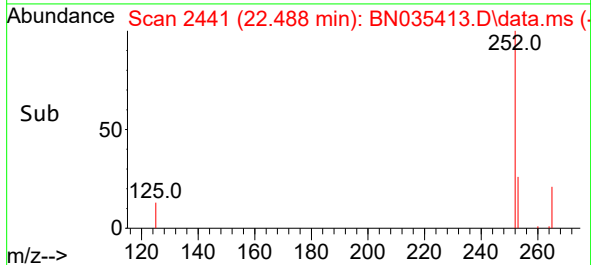
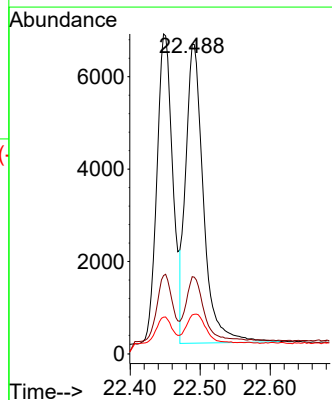
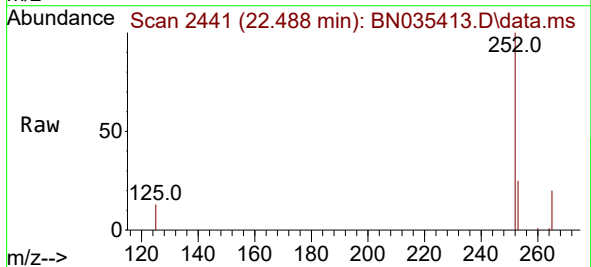
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

Tgt Ion:252 Resp: 12967  
Ion Ratio Lower Upper  
252 100  
253 24.5 19.6 29.4  
125 11.5 9.6 14.4

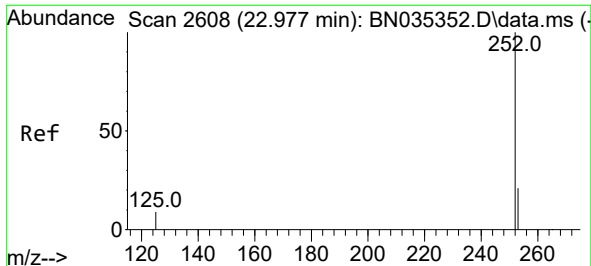


#38  
Benzo(k)fluoranthene  
Concen: 0.407 ng  
RT: 22.488 min Scan# 2441  
Delta R.T. -0.006 min  
Lab File: BN035413.D  
Acq: 03 Dec 2024 21:11

Tgt Ion:252 Resp: 11373  
Ion Ratio Lower Upper  
252 100  
253 24.9 19.5 29.3  
125 12.6 10.2 15.4



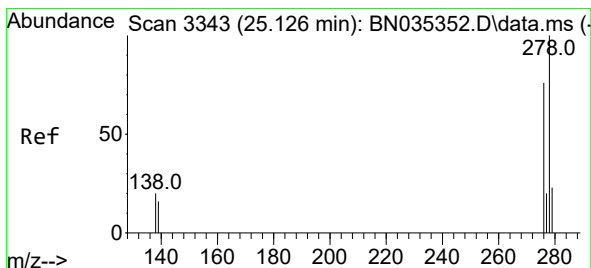
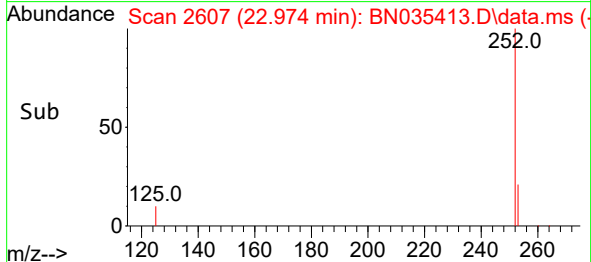
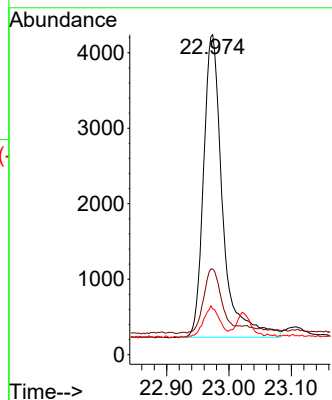
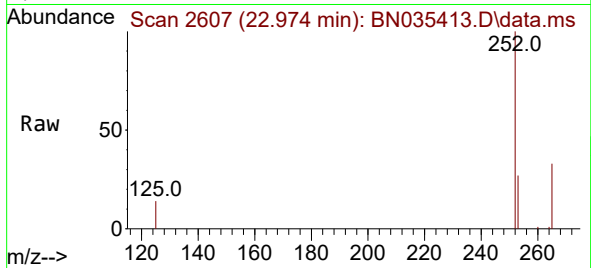




#39  
Benzo(a)pyrene  
Concen: 0.363 ng  
RT: 22.974 min Scan# 20  
Delta R.T. -0.003 min  
Lab File: BN035413.D  
Acq: 03 Dec 2024 21:11

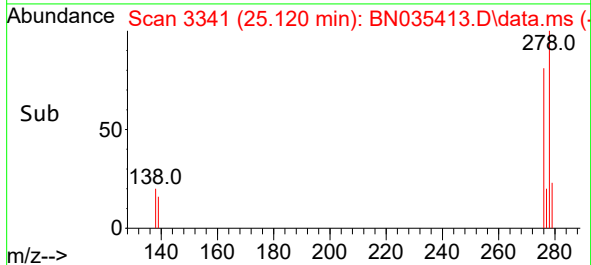
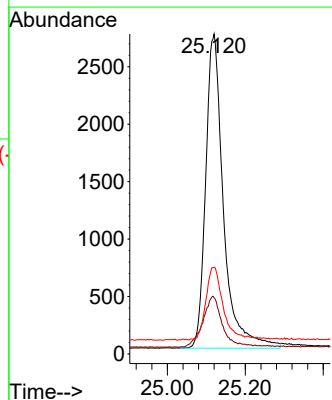
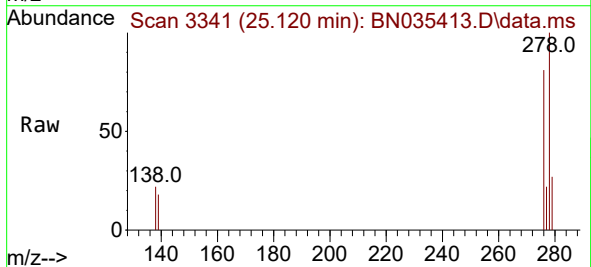
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

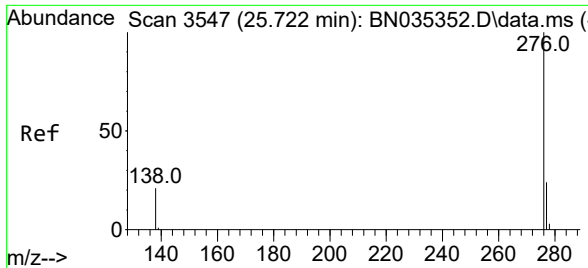
Tgt Ion:252 Resp: 8498  
Ion Ratio Lower Upper  
252 100  
253 26.8 20.2 30.4  
125 14.3 10.9 16.3



#40  
Dibenzo(a,h)anthracene  
Concen: 0.362 ng  
RT: 25.120 min Scan# 3341  
Delta R.T. -0.006 min  
Lab File: BN035413.D  
Acq: 03 Dec 2024 21:11

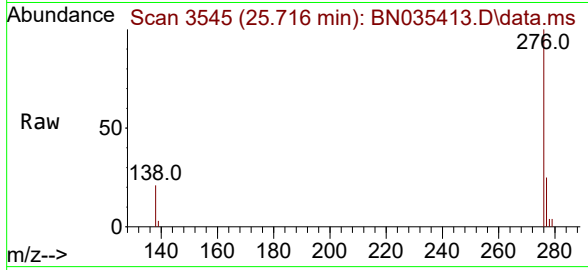
Tgt Ion:278 Resp: 8673  
Ion Ratio Lower Upper  
278 100  
139 17.5 14.2 21.4  
279 27.1 20.5 30.7





#41  
Benzo(g,h,i)perylene  
Concen: 0.368 ng  
RT: 25.716 min Scan# 31  
Delta R.T. -0.006 min  
Lab File: BN035413.D  
Acq: 03 Dec 2024 21:11

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 276   | Resp: | 9224  |
| Ion      | Ratio | Lower | Upper |
| 276      | 100   |       |       |
| 277      | 25.4  | 19.9  | 29.9  |
| 138      | 21.5  | 17.8  | 26.8  |

