

## Cover Page

**Order ID :** Q3526

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

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

**Lab Sample Number**

Q3526-01  
Q3526-02  
Q3526-03  
Q3526-04

**Client Sample Number**

RW7-SP100-20251030  
RW7-SP201-20251030  
RW7-SP302-20251030  
RW7-SP303-20251030

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

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

Date: 11/10/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

## **CASE NARRATIVE**

**Tetra Tech NUS, Inc.**

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

**Project Manager : Ernie Wu**

**Order ID # Q3526**

**Test Name: SVOC-SIMGroup1**

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

4 Water samples were received on 11/03/2025.

### **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-Semi Volatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGA. The 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 were met for all analysis except for RW7-SP201-20251030 [Terphenyl-d14 - 140%], RW7-SP302-20251030 [Terphenyl-d14 - 148%] and RW7-SP303-20251030 [Terphenyl-d14 - 163%], The failure surrogates not associated with the client parameters list, therefore no corrective action was taken.

The Internal Standards Areas were met for all analysis.

The Retention Times were met for all analysis.

The RPD for met criteria except for except for PB170381BSD for 1,4-Dioxane. %RPD was affected due to marginal difference in recoveries.

The Blank Spike Duplicate for {PB170381BSD} with File ID: BN038133.D met requirements for all compounds except for 1,4-Dioxane[65%], Failed marginally biased low, however, it is meeting QC criteria in the continues calibration.

The Blank analysis did not indicate the presence of lab contamination.

The Initial Calibration met the requirements.

The Continuous Calibration met the requirements.

The Tuning criteria met requirements.



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

**E. Additional Comments:**

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

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.

**F. Manual Integration Comments:**

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

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

Signature\_\_\_\_\_

## DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following "Results Qualifiers" are used:

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

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

ORDER ID: Q3526

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 were met for all analysis except for PB170381BL [2,4,6-<br>Tribromophenol - 29%], RW7-SP201-20251030 [Terphenyl-d14 - 140%], RW7-<br>SP302-20251030 [Terphenyl-d14 - 148%] and RW7-SP303-20251030 [Terphenyl-d14<br>- 163%], The failure surrogates not associated with the client parameters list, therefore<br>no corrective action was taken.                                         |    | ✓  |     |
| 8. Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria<br>The RPD for met criteria except for except for PB170381BSD for 1,4-Dioxane. %RPD<br>was affected due to marginal difference in recoveries.<br><br>If not met, list those compounds and their recoveries which fall outside the acceptable<br>range.<br><br>The Blank Spike Duplicate for {PB170381BSD} with File ID: BN038133.D met<br>requirements for all compounds except for 1,4-Dioxane[65%], Failed marginally biased<br>low, however, it is meeting QC criteria in the continues calibration.. |    | ✓  |     |
| 9. Internal Standard Area/Retention Time Shift Meet Criteria<br><br>Comments:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |    |    | ✓   |

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

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

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

**(CONTINUED)**

|     |                                                           | NA | NO | YES |
|-----|-----------------------------------------------------------|----|----|-----|
| 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.

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

\_\_\_\_\_  
Date

## APPENDIX A

### QA REVIEW GENERAL DOCUMENTATION

Project #: Q3526

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: 11/10/2025

## LAB CHRONICLE

|                 |                      |                   |                               |
|-----------------|----------------------|-------------------|-------------------------------|
| <b>OrderID:</b> | Q3526                | <b>OrderDate:</b> | 11/3/2025 9:28:00 AM          |
| <b>Client:</b>  | Tetra Tech NUS, Inc. | <b>Project:</b>   | NWIRP Bethpage 112G08005-WE13 |
| <b>Contact:</b> | Ernie Wu             | <b>Location:</b>  | A12                           |

| LabID           | ClientID                             | Matrix       | Test           | Method        | Sample Date     | Prep Date | Anal Date | Received        |
|-----------------|--------------------------------------|--------------|----------------|---------------|-----------------|-----------|-----------|-----------------|
| <b>Q3526-01</b> | <b>RW7-SP100-2025103</b><br><b>0</b> | <b>Water</b> |                |               | <b>10/30/25</b> |           |           | <b>11/03/25</b> |
|                 |                                      |              | SVOC-SIMGroup1 | 8270-Modified |                 | 11/03/25  | 11/04/25  |                 |
| <b>Q3526-02</b> | <b>RW7-SP201-2025103</b><br><b>0</b> | <b>Water</b> |                |               | <b>10/30/25</b> |           |           | <b>11/03/25</b> |
|                 |                                      |              | SVOC-SIMGroup1 | 8270-Modified |                 | 11/03/25  | 11/04/25  |                 |
| <b>Q3526-03</b> | <b>RW7-SP302-2025103</b><br><b>0</b> | <b>Water</b> |                |               | <b>10/30/25</b> |           |           | <b>11/03/25</b> |
|                 |                                      |              | SVOC-SIMGroup1 | 8270-Modified |                 | 11/03/25  | 11/04/25  |                 |
| <b>Q3526-04</b> | <b>RW7-SP303-2025103</b><br><b>0</b> | <b>Water</b> |                |               | <b>10/30/25</b> |           |           | <b>11/03/25</b> |
|                 |                                      |              | SVOC-SIMGroup1 | 8270-Modified |                 | 11/03/25  | 11/04/25  |                 |



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

**SDG No.:** Q3526

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

| Sample ID          | Client ID                 | Parameter | Concentration               | C     | MDL | LOD         | RDL | Units    |
|--------------------|---------------------------|-----------|-----------------------------|-------|-----|-------------|-----|----------|
| <b>Client ID :</b> | <b>RW7-SP100-20251030</b> |           |                             |       |     |             |     |          |
| Q3526-01           | RW7-SP100-20251030        | WATER     | 1,4-Dioxane                 | 2.900 | Q   | 0.07        | 0.2 | 0.2 ug/L |
|                    |                           |           | <b>Total Svoc :</b>         |       |     | <b>2.90</b> |     |          |
|                    |                           |           | <b>Total Concentration:</b> |       |     | <b>2.90</b> |     |          |



# QC SUMMARY

## Surrogate Summary

SW-846

SDG No.: Q3526

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified

| Lab Sample ID | Client ID          | Parameter               | Spike (PPM) | Result (PPM) | Recovery (%) | Qual | Limits (%) |      |
|---------------|--------------------|-------------------------|-------------|--------------|--------------|------|------------|------|
|               |                    |                         |             |              |              |      | Low        | High |
| PB170381BL    | PB170381BL         | 2-Methylnaphthalene-d10 | 0.4         | 0.33         | 83           |      | 30         | 150  |
|               |                    | Fluoranthene-d10        | 0.4         | 0.35         | 88           |      | 30         | 150  |
|               |                    | Nitrobenzene-d5         | 0.4         | 0.35         | 88           |      | 55         | 111  |
|               |                    | 2-Fluorobiphenyl        | 0.4         | 0.39         | 97           |      | 53         | 106  |
|               |                    | Terphenyl-d14           | 0.4         | 0.46         | 114          |      | 58         | 132  |
| PB170381BS    | PB170381BS         | 2-Methylnaphthalene-d10 | 0.4         | 0.35         | 88           |      | 30         | 150  |
|               |                    | Fluoranthene-d10        | 0.4         | 0.30         | 76           |      | 30         | 150  |
|               |                    | Nitrobenzene-d5         | 0.4         | 0.37         | 92           |      | 55         | 111  |
|               |                    | 2-Fluorobiphenyl        | 0.4         | 0.42         | 104          |      | 53         | 106  |
|               |                    | Terphenyl-d14           | 0.4         | 0.48         | 121          |      | 58         | 132  |
| PB170381BSD   | PB170381BSD        | 2-Methylnaphthalene-d10 | 0.4         | 0.29         | 73           |      | 30         | 150  |
|               |                    | Fluoranthene-d10        | 0.4         | 0.25         | 63           |      | 30         | 150  |
|               |                    | Nitrobenzene-d5         | 0.4         | 0.31         | 76           |      | 55         | 111  |
|               |                    | 2-Fluorobiphenyl        | 0.4         | 0.32         | 81           |      | 53         | 106  |
|               |                    | Terphenyl-d14           | 0.4         | 0.36         | 91           |      | 58         | 132  |
| Q3526-01      | RW7-SP100-20251030 | 2-Methylnaphthalene-d10 | 0.4         | 0.28         | 71           |      | 30         | 150  |
|               |                    | Fluoranthene-d10        | 0.4         | 0.43         | 107          |      | 30         | 150  |
|               |                    | Nitrobenzene-d5         | 0.4         | 0.28         | 70           |      | 55         | 111  |
|               |                    | 2-Fluorobiphenyl        | 0.4         | 0.31         | 77           |      | 53         | 106  |
|               |                    | Terphenyl-d14           | 0.4         | 0.51         | 128          |      | 58         | 132  |
| Q3526-02      | RW7-SP201-20251030 | 2-Methylnaphthalene-d10 | 0.4         | 0.30         | 76           |      | 30         | 150  |
|               |                    | Fluoranthene-d10        | 0.4         | 0.38         | 94           |      | 30         | 150  |
|               |                    | Nitrobenzene-d5         | 0.4         | 0.31         | 76           |      | 55         | 111  |
|               |                    | 2-Fluorobiphenyl        | 0.4         | 0.31         | 77           |      | 53         | 106  |
|               |                    | Terphenyl-d14           | 0.4         | 0.56         | 140          | *    | 58         | 132  |
| Q3526-03      | RW7-SP302-20251030 | 2-Methylnaphthalene-d10 | 0.4         | 0.32         | 79           |      | 30         | 150  |
|               |                    | Fluoranthene-d10        | 0.4         | 0.36         | 90           |      | 30         | 150  |
|               |                    | Nitrobenzene-d5         | 0.4         | 0.33         | 81           |      | 55         | 111  |
|               |                    | 2-Fluorobiphenyl        | 0.4         | 0.36         | 90           |      | 53         | 106  |
|               |                    | Terphenyl-d14           | 0.4         | 0.59         | 148          | *    | 58         | 132  |
| Q3526-04      | RW7-SP303-20251030 | 2-Methylnaphthalene-d10 | 0.4         | 0.27         | 67           |      | 30         | 150  |
|               |                    | Fluoranthene-d10        | 0.4         | 0.32         | 81           |      | 30         | 150  |
|               |                    | Nitrobenzene-d5         | 0.4         | 0.27         | 68           |      | 55         | 111  |
|               |                    | 2-Fluorobiphenyl        | 0.4         | 0.28         | 69           |      | 53         | 106  |
|               |                    | Terphenyl-d14           | 0.4         | 0.65         | 163          | *    | 58         | 132  |

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

SW-846

**SDG No.:** Q3526

**Analytical Method:** 8270-Modified

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

**DataFile:** BN038132.D

| Lab Sample ID | Parameter   | Spike | Result | Unit | Rec | RPD | Qual | RPD  | Limits |      | RPD |
|---------------|-------------|-------|--------|------|-----|-----|------|------|--------|------|-----|
|               |             |       |        |      |     |     |      | Qual | Low    | High |     |
| PB170381BS    | 1,4-Dioxane | 0.4   | 0.33   | ug/L | 83  |     |      |      | 70     | 130  |     |

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

SW-846

**SDG No.:** Q3526

**Analytical Method:** 8270-Modified

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

**DataFile:** BN038133.D

| Lab Sample ID | Parameter   | Spike | Result | Unit | Rec | RPD | Qual | RPD  | Low | Limits | RPD |
|---------------|-------------|-------|--------|------|-----|-----|------|------|-----|--------|-----|
|               |             |       |        |      |     |     |      | Qual |     | High   |     |
| PB170381BSD   | 1,4-Dioxane | 0.4   | 0.26   | ug/L | 65  | 24  | *    | *    | 70  | 130    | 20  |

4B

SEMIVOLATILE METHOD BLANK SUMMARY

Client ID

PB170381BL

Lab Name: Alliance

Contract: TETR06

Lab Code: ACE

SDG NO.: Q3526

Lab File ID: BN038131.D

Lab Sample ID: PB170381BL

Instrument ID: BNA\_N

Date Extracted: 11/03/2025

Matrix: (soil/water) Water

Date Analyzed: 11/04/2025

Level: (low/med) LOW

Time Analyzed: 11:43

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 |
|--------------------|------------------|----------------|------------------|
| PB170381BS         | PB170381BS       | BN038132.D     | 11/04/2025       |
| PB170381BSD        | PB170381BSD      | BN038133.D     | 11/04/2025       |
| RW7-SP100-20251030 | Q3526-01         | BN038138.D     | 11/04/2025       |
| RW7-SP201-20251030 | Q3526-02         | BN038139.D     | 11/04/2025       |
| RW7-SP302-20251030 | Q3526-03         | BN038140.D     | 11/04/2025       |
| RW7-SP303-20251030 | Q3526-04         | BN038141.D     | 11/04/2025       |

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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance  
Lab Code: ACE  
Lab File ID: BN038110.D  
Instrument ID: BNA\_N

Contract: TETR06  
SDG NO.: Q3526  
DFTPP Injection Date: 10/28/2025  
DFTPP Injection Time: 12:05

| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 68  | Less than 2.0% of mass 69          | 0.7 ( 1.8 ) 1        |
| 69  | Mass 69 relative abundance         | 100                  |
| 70  | Less than 2.0% of mass 69          | 0.2 ( 0.5 ) 1        |
| 197 | Less than 2.0% of mass 198         | 0.2                  |
| 198 | Base Peak, 100% relative abundance | 100                  |
| 199 | 5.0 to 9.0% of mass 198            | 6.5                  |
| 365 | Greater than 1% of mass 198        | 3.4                  |
| 441 | Present, but less than mass 443    | 83.9                 |
| 442 | Greater than 50% of mass 198       | 100                  |
| 443 | 15.0 - 24.0% of mass 442           | 17 ( 19.9 ) 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       | BN038111.D     | 10/28/2025       | 13:00            |
| SSTDICC0.2        | SSTDICC0.2       | BN038112.D     | 10/28/2025       | 13:36            |
| SSTDICCC0.4       | SSTDICCC0.4      | BN038113.D     | 10/28/2025       | 14:13            |
| SSTDICC0.8        | SSTDICC0.8       | BN038114.D     | 10/28/2025       | 14:49            |
| SSTDICC1.6        | SSTDICC1.6       | BN038115.D     | 10/28/2025       | 15:25            |
| SSTDICC3.2        | SSTDICC3.2       | BN038116.D     | 10/28/2025       | 16:02            |
| SSTDICC5.0        | SSTDICC5.0       | BN038117.D     | 10/28/2025       | 16:38            |

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance  
Lab Code: ACE  
Lab File ID: BN038129.D  
Instrument ID: BNA\_N

Contract: TETR06  
SDG NO.: Q3526  
DFTPP Injection Date: 11/04/2025  
DFTPP Injection Time: 10:00

| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 68  | Less than 2.0% of mass 69          | 0.7 ( 1.8 ) 1        |
| 69  | Mass 69 relative abundance         | 100                  |
| 70  | Less than 2.0% of mass 69          | 0.2 ( 0.5 ) 1        |
| 197 | Less than 2.0% of mass 198         | 0.0                  |
| 198 | Base Peak, 100% relative abundance | 100                  |
| 199 | 5.0 to 9.0% of mass 198            | 6.9                  |
| 365 | Greater than 1% of mass 198        | 3.8                  |
| 441 | Present, but less than mass 443    | 77.2                 |
| 442 | Greater than 50% of mass 198       | 100                  |
| 443 | 15.0 - 24.0% of mass 442           | 19 ( 20 ) 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       | BN038130.D     | 11/04/2025       | 10:40            |
| PB170381BL         | PB170381BL       | BN038131.D     | 11/04/2025       | 11:43            |
| PB170381BS         | PB170381BS       | BN038132.D     | 11/04/2025       | 12:19            |
| PB170381BSD        | PB170381BSD      | BN038133.D     | 11/04/2025       | 12:56            |
| RW7-SP100-20251030 | Q3526-01         | BN038138.D     | 11/04/2025       | 15:57            |
| RW7-SP201-20251030 | Q3526-02         | BN038139.D     | 11/04/2025       | 16:34            |
| RW7-SP302-20251030 | Q3526-03         | BN038140.D     | 11/04/2025       | 17:10            |
| RW7-SP303-20251030 | Q3526-04         | BN038141.D     | 11/04/2025       | 17:46            |
| SSTDCCC0.4EC       | SSTDCCC0.4       | BN038145.D     | 11/04/2025       | 20:12            |

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE

SDG NO.: Q3526

Client ID : SSTDCCC0.4

Date Analyzed: 11/04/2025

Lab File ID: BN038130.D

Time Analyzed: 10:40

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           | 8599                | 7.775 | 24973               | 10.57  | 13947               | 14.44  |
| UPPER LIMIT           | 17198               | 8.275 | 49946               | 11.073 | 27894               | 14.941 |
| LOWER LIMIT           | 4299.5              | 7.275 | 12486.5             | 10.073 | 6973.5              | 13.941 |
| EPA SAMPLE NO.        |                     |       |                     |        |                     |        |
| 01 PB170381BL         | 8221                | 7.79  | 22221               | 10.59  | 11601               | 14.44  |
| 02 PB170381BS         | 11523               | 7.78  | 31801               | 10.57  | 16154               | 14.44  |
| 03 PB170381BSD        | 10823               | 7.78  | 30534               | 10.57  | 15616               | 14.43  |
| 04 RW7-SP100-20251030 | 8530                | 7.78  | 25854               | 10.57  | 14999               | 14.43  |
| 05 RW7-SP201-20251030 | 8635                | 7.78  | 25969               | 10.57  | 15192               | 14.43  |
| 06 RW7-SP302-20251030 | 8568                | 7.78  | 25578               | 10.57  | 14324               | 14.43  |
| 07 RW7-SP303-20251030 | 8535                | 7.78  | 25212               | 10.57  | 14257               | 14.43  |

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: Alliance

Lab Code: ACE

SDG NO.: Q3526

Client ID: SSTDCCC0.4

Date Analyzed: 11/04/2025

Lab File ID: BN038130.D

Time Analyzed: 10:40

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           | 27056               | 17.186 | 17059               | 21.375 | 13607               | 23.686 |
| UPPER LIMIT           | 54112               | 17.686 | 34118               | 21.875 | 27214               | 24.186 |
| LOWER LIMIT           | 13528               | 16.686 | 8529.5              | 20.875 | 6803.5              | 23.186 |
| EPA SAMPLE NO.        |                     |        |                     |        |                     |        |
| 01 PB170381BL         | 21781               | 17.20  | 15202               | 21.38  | 13241               | 23.70  |
| 02 PB170381BS         | 30417               | 17.19  | 16510               | 21.38  | 13194               | 23.69  |
| 03 PB170381BSD        | 28756               | 17.19  | 18053               | 21.38  | 14856               | 23.68  |
| 04 RW7-SP100-20251030 | 31102               | 17.19  | 25933               | 21.38  | 21372               | 23.68  |
| 05 RW7-SP201-20251030 | 28331               | 17.19  | 19063               | 21.38  | 14967               | 23.69  |
| 06 RW7-SP302-20251030 | 27505               | 17.19  | 16355               | 21.38  | 12980               | 23.68  |
| 07 RW7-SP303-20251030 | 26274               | 17.19  | 14750               | 21.38  | 12357               | 23.68  |

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

\* Values outside of QC limits.



# SAMPLE DATA

## Report of Analysis

|                    |                               |                     |                 |                |
|--------------------|-------------------------------|---------------------|-----------------|----------------|
| Client:            | Tetra Tech NUS, Inc.          |                     | Date Collected: | 10/30/25       |
| Project:           | NWIRP Bethpage 112G08005-WE13 |                     | Date Received:  | 11/03/25       |
| Client Sample ID:  | RW7-SP100-20251030            |                     | SDG No.:        | Q3526          |
| Lab Sample ID:     | Q3526-01                      |                     | Matrix:         | Water          |
| Analytical Method: | SW8270ESIM                    | Level: LOW          | % Solid:        | 0              |
| Sample Wt/Vol:     | 1000 mL                       | Final Vol: 1000 uL  | Test:           | SVOC-SIMGroup1 |
| Prep Method :      | 3510C                         | Prep Date: 11/03/25 |                 |                |

| CAS Number                | Parameter               | Conc.             | Qua. | DF | MDL      | LOD  | LOQ / CRQL | Units    | Date Ana.      | Prep BatchID |
|---------------------------|-------------------------|-------------------|------|----|----------|------|------------|----------|----------------|--------------|
| <b>TARGETS</b>            |                         |                   |      |    |          |      |            |          |                |              |
| 123-91-1                  | 1,4-Dioxane             | 2.90              | Q    | 1  | 0.070    | 0.20 | 0.20       | ug/L     | 11/04/25 15:57 | PB170381     |
| <b>SURROGATES</b>         |                         |                   |      |    |          |      |            |          |                |              |
| 7297-45-2                 | 2-Methylnaphthalene-d10 | 0.28              |      |    | 30 - 150 |      | 71%        | SPK: 0.4 |                |              |
| 93951-69-0                | Fluoranthene-d10        | 0.43              |      |    | 30 - 150 |      | 107%       | SPK: 0.4 |                |              |
| 4165-60-0                 | Nitrobenzene-d5         | 0.28              |      |    | 55 - 111 |      | 70%        | SPK: 0.4 |                |              |
| 321-60-8                  | 2-Fluorobiphenyl        | 0.31              |      |    | 53 - 106 |      | 77%        | SPK: 0.4 |                |              |
| 1718-51-0                 | Terphenyl-d14           | 0.51              |      |    | 58 - 132 |      | 128%       | SPK: 0.4 |                |              |
| <b>INTERNAL STANDARDS</b> |                         | <b>Area Count</b> |      |    |          |      |            |          |                |              |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4  | 8530              |      |    |          |      |            |          |                |              |
| 1146-65-2                 | Naphthalene-d8          | 25900             |      |    |          |      |            |          |                |              |
| 15067-26-2                | Acenaphthene-d10        | 15000             |      |    |          |      |            |          |                |              |
| 1517-22-2                 | Phenanthrene-d10        | 31100             |      |    |          |      |            |          |                |              |
| 1719-03-5                 | Chrysene-d12            | 25900             |      |    |          |      |            |          |                |              |
| 1520-96-3                 | Perylene-d12            | 21400             |      |    |          |      |            |          |                |              |

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\BN110425\  
 Data File : BN038138.D  
 Acq On : 04 Nov 2025 15:57  
 Operator : RC/JU  
 Sample : Q3526-01  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 RW7-SP100-20251030

Quant Time: Nov 04 16:25:24 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN102825.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Oct 29 13:09:46 2025  
 Response via : Initial Calibration

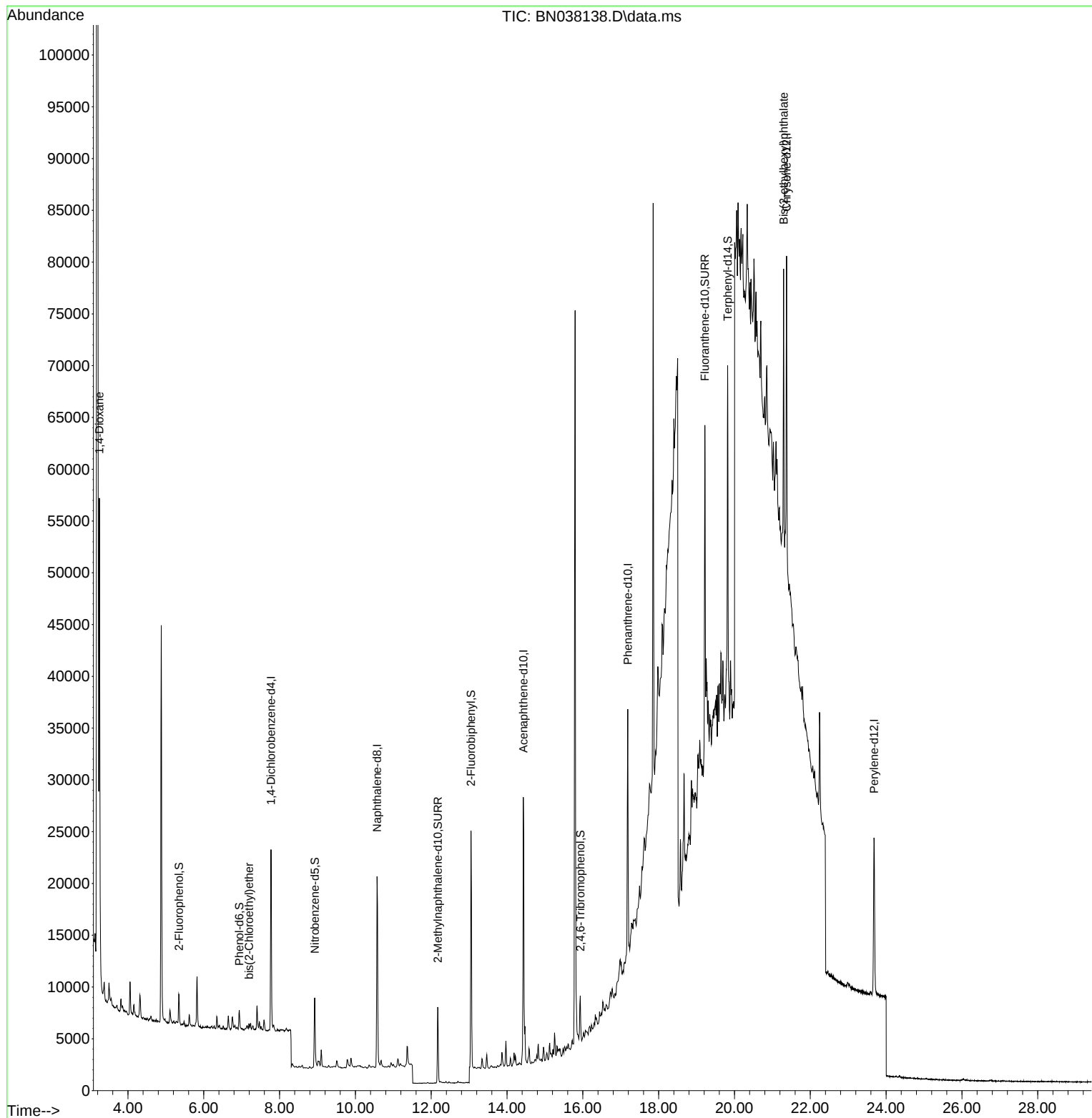
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min)  |
|-------------------------------|--------|------|----------|-------|-------|-----------|
| -----                         |        |      |          |       |       |           |
| Internal Standards            |        |      |          |       |       |           |
| 1) 1,4-Dichlorobenzene-d4     | 7.775  | 152  | 8530     | 0.400 | ng    | 0.00      |
| 7) Naphthalene-d8             | 10.573 | 136  | 25854    | 0.400 | ng    | # 0.00    |
| 13) Acenaphthene-d10          | 14.430 | 164  | 14999    | 0.400 | ng    | 0.00      |
| 19) Phenanthrene-d10          | 17.186 | 188  | 31102    | 0.400 | ng    | 0.00      |
| 29) Chrysene-d12              | 21.375 | 240  | 25933    | 0.400 | ng    | # 0.00    |
| 35) Perylene-d12              | 23.680 | 264  | 21372    | 0.400 | ng    | 0.00      |
| System Monitoring Compounds   |        |      |          |       |       |           |
| 4) 2-Fluorophenol             | 5.348  | 112  | 2490     | 0.124 | ng    | 0.00      |
| 5) Phenol-d6                  | 6.937  | 99   | 1781     | 0.073 | ng    | 0.00      |
| 8) Nitrobenzene-d5            | 8.929  | 82   | 5875     | 0.282 | ng    | 0.00      |
| 11) 2-Methylnaphthalene-d10   | 12.172 | 152  | 10503    | 0.284 | ng    | 0.00      |
| 14) 2,4,6-Tribromophenol      | 15.932 | 330  | 2316     | 0.375 | ng    | 0.00      |
| 15) 2-Fluorobiphenyl          | 13.051 | 172  | 18588    | 0.309 | ng    | 0.00      |
| 27) Fluoranthene-d10          | 19.220 | 212  | 33654    | 0.429 | ng    | 0.00      |
| 31) Terphenyl-d14             | 19.819 | 244  | 28902    | 0.513 | ng    | 0.00      |
| Target Compounds              |        |      |          |       |       |           |
| 2) 1,4-Dioxane                | 3.247  | 88   | 25922    | 2.941 | ng    | Qvalue 97 |
| 6) bis(2-Chloroethyl)ether    | 7.197  | 93   | 524      | 0.022 | ng    | 98        |
| 34) Bis(2-ethylhexyl)phtha... | 21.295 | 149  | 22629    | 0.464 | ng    | 96        |
| -----                         |        |      |          |       |       |           |

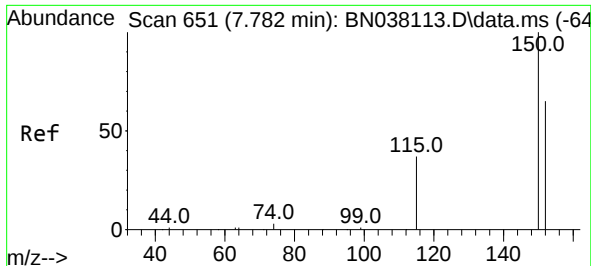
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN110425\  
Data File : BN038138.D  
Acq On : 04 Nov 2025 15:57  
Operator : RC/JU  
Sample : Q3526-01  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP100-20251030

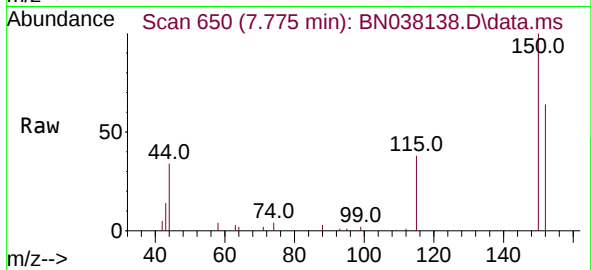
Quant Time: Nov 04 16:25:24 2025  
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Oct 29 13:09:46 2025  
Response via : Initial Calibration



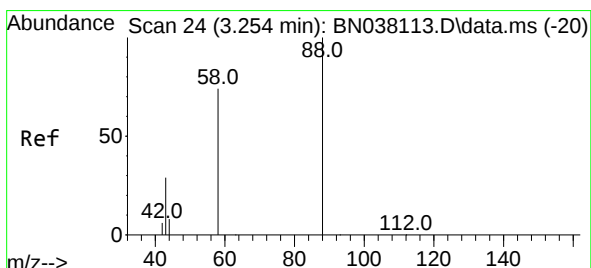
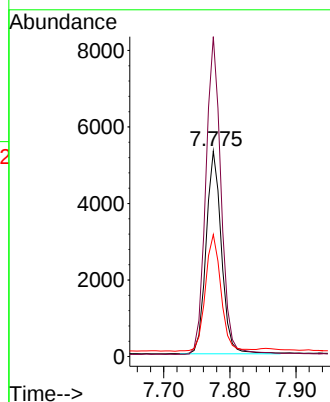
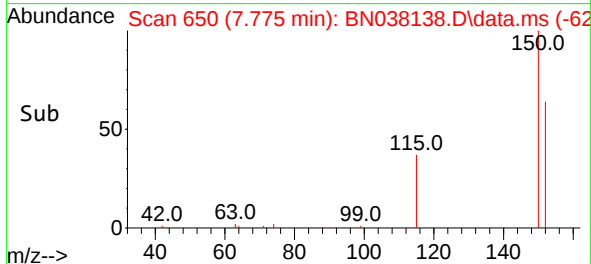


#1  
 1,4-Dichlorobenzene-d4  
 Concen: 0.400 ng  
 RT: 7.775 min Scan# 61  
 Delta R.T. -0.000 min  
 Lab File: BN038138.D  
 Acq: 04 Nov 2025 15:57

Instrument :  
 BNA\_N  
 ClientSampleId :  
 RW7-SP100-20251030

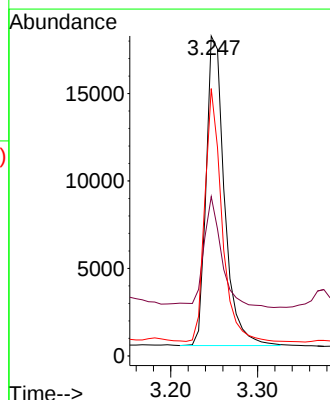
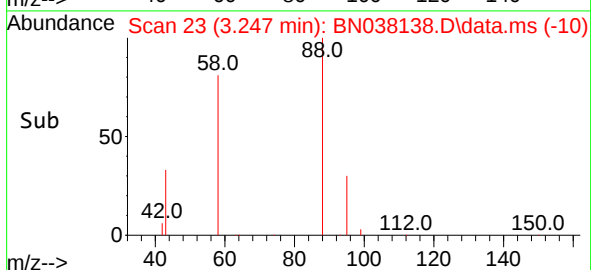
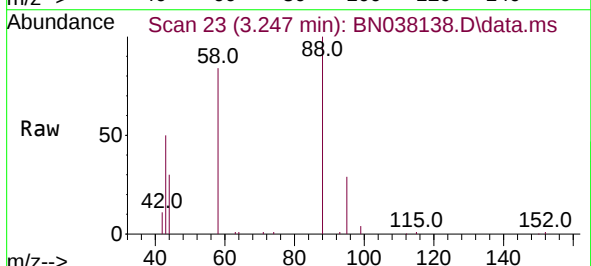


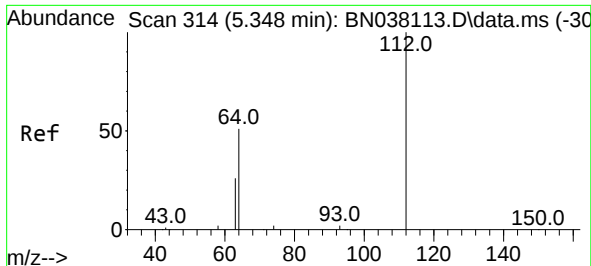
Tgt Ion:152 Resp: 8530  
 Ion Ratio Lower Upper  
 152 100  
 150 155.7 122.3 183.5  
 115 59.4 47.4 71.0



#2  
 1,4-Dioxane  
 Concen: 2.941 ng  
 RT: 3.247 min Scan# 23  
 Delta R.T. -0.007 min  
 Lab File: BN038138.D  
 Acq: 04 Nov 2025 15:57

Tgt Ion: 88 Resp: 25922  
 Ion Ratio Lower Upper  
 88 100  
 43 35.4 24.3 36.5  
 58 75.5 60.4 90.6





#4

2-Fluorophenol

Concen: 0.124 ng

RT: 5.348 min Scan# 314

Delta R.T. -0.000 min

Lab File: BN038138.D

Acq: 04 Nov 2025 15:57

Instrument :

BNA\_N

ClientSampleId :

RW7-SP100-20251030

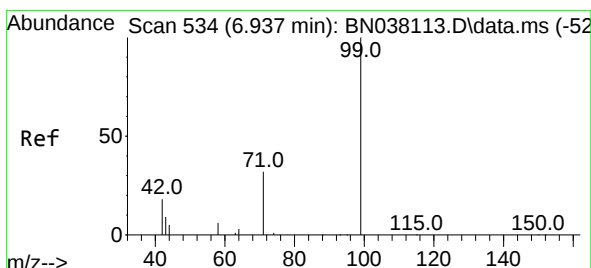
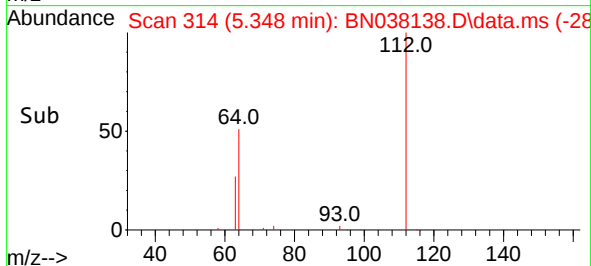
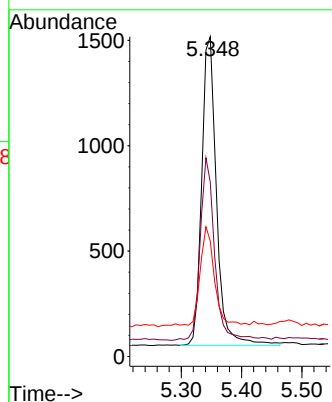
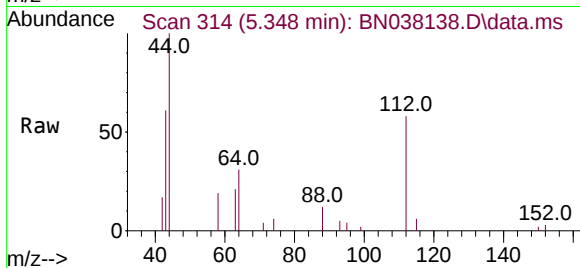
Tgt Ion:112 Resp: 2490

Ion Ratio Lower Upper

112 100

64 58.2 45.4 68.0

63 31.3 23.2 34.8



#5

Phenol-d6

Concen: 0.073 ng

RT: 6.937 min Scan# 534

Delta R.T. -0.000 min

Lab File: BN038138.D

Acq: 04 Nov 2025 15:57

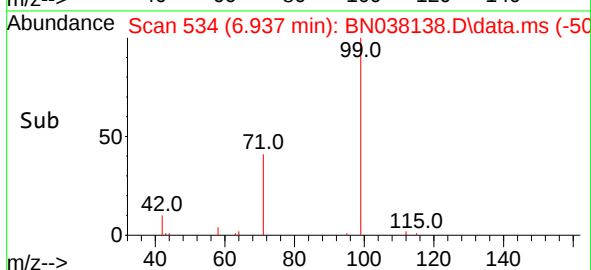
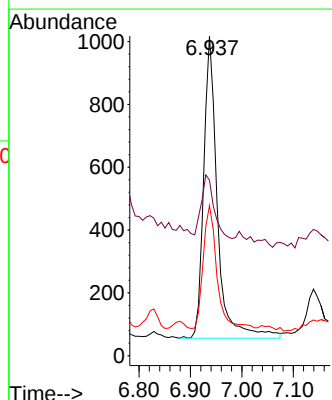
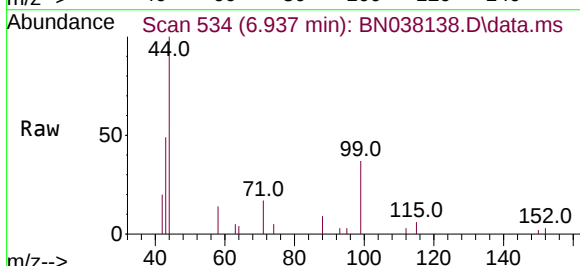
Tgt Ion: 99 Resp: 1781

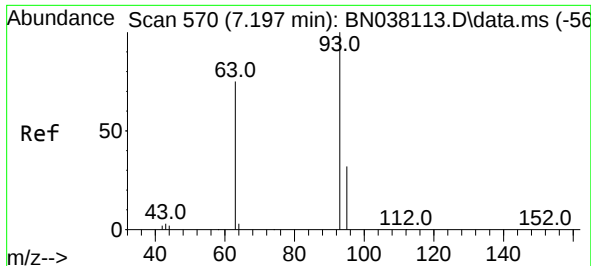
Ion Ratio Lower Upper

99 100

42 19.5 16.6 24.8

71 40.9 25.4 38.2#

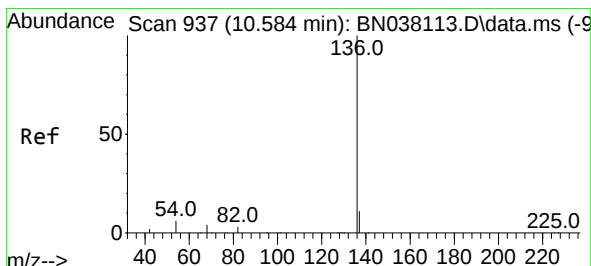
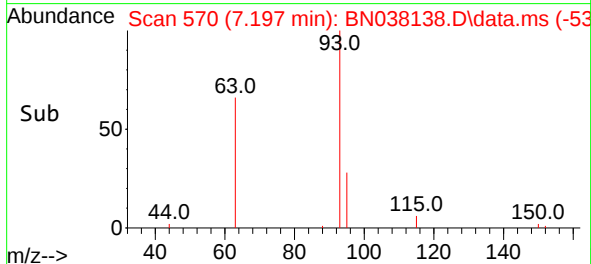
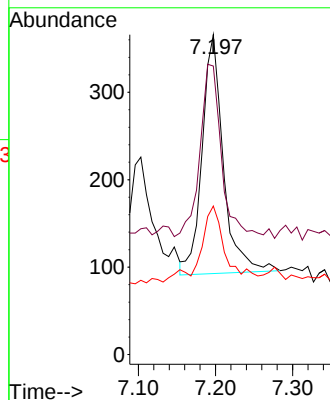
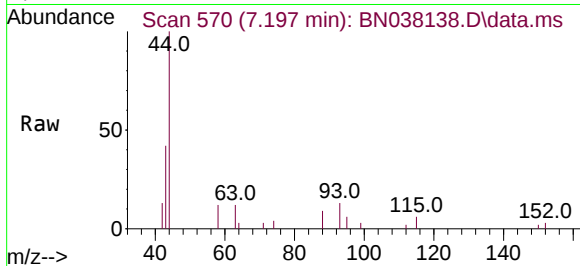




#6  
bis(2-Chloroethyl)ether  
Concen: 0.022 ng  
RT: 7.197 min Scan# 51  
Delta R.T. -0.000 min  
Lab File: BN038138.D  
Acq: 04 Nov 2025 15:57

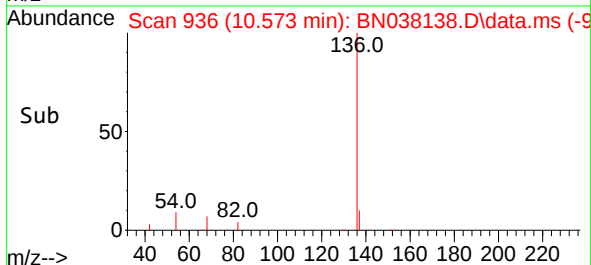
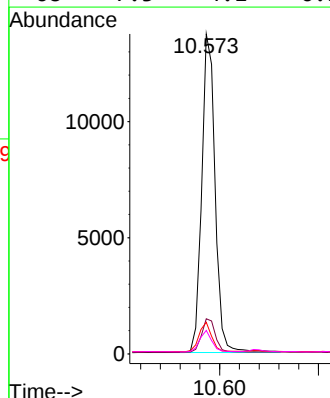
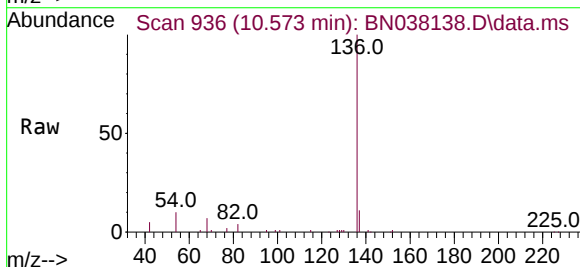
Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP100-20251030

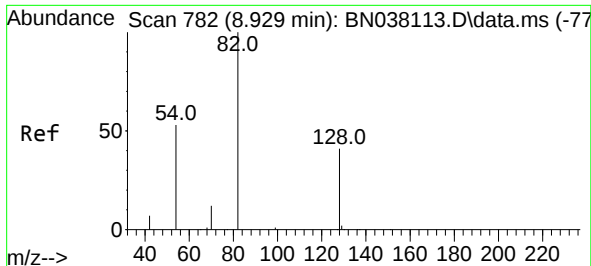
|             |       |       |       |
|-------------|-------|-------|-------|
| Tgt Ion: 93 | Resp: | 524   |       |
| Ion         | Ratio | Lower | Upper |
| 93          | 100   |       |       |
| 63          | 71.9  | 59.3  | 88.9  |
| 95          | 30.7  | 25.2  | 37.8  |



#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.573 min Scan# 936  
Delta R.T. -0.000 min  
Lab File: BN038138.D  
Acq: 04 Nov 2025 15:57

|     |         |       |       |
|-----|---------|-------|-------|
| Tgt | Ion:136 | Resp: | 25854 |
| Ion | Ratio   | Lower | Upper |
| 136 | 100     |       |       |
| 137 | 11.0    | 9.0   | 13.4  |
| 54  | 9.9     | 5.2   | 7.8#  |
| 68  | 7.3     | 4.1   | 6.1#  |

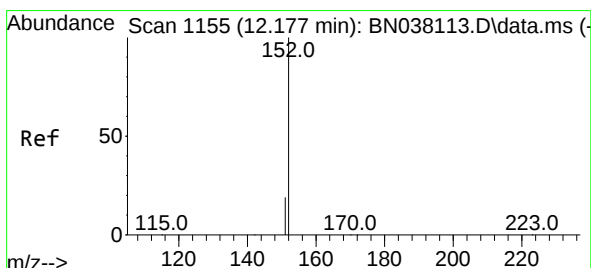
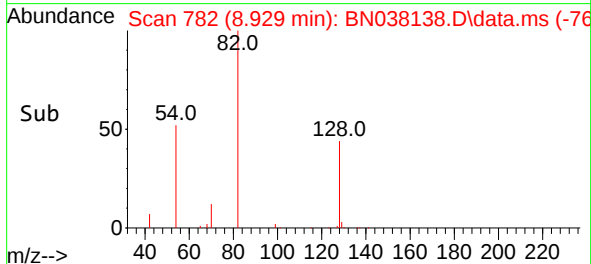
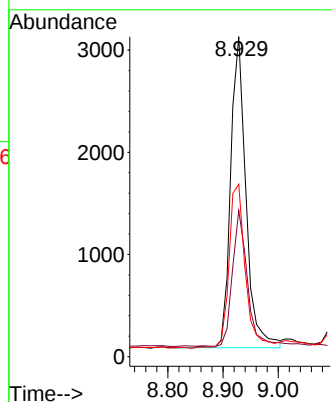
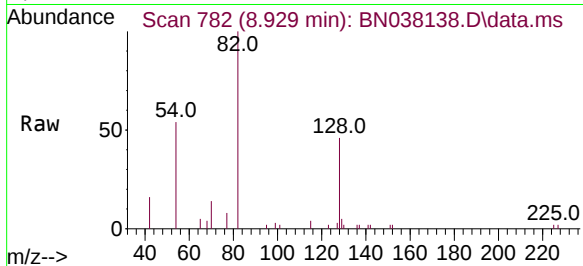




#8  
 Nitrobenzene-d5  
 Concen: 0.282 ng  
 RT: 8.929 min Scan# 782  
 Delta R.T. -0.000 min  
 Lab File: BN038138.D  
 Acq: 04 Nov 2025 15:57

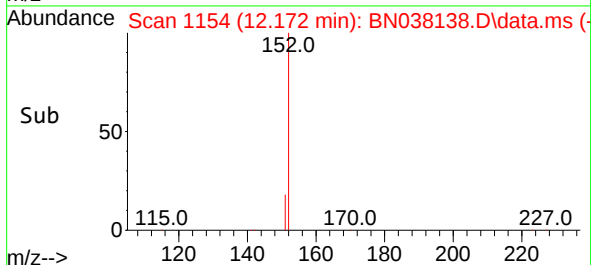
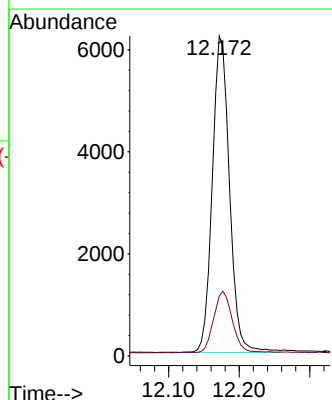
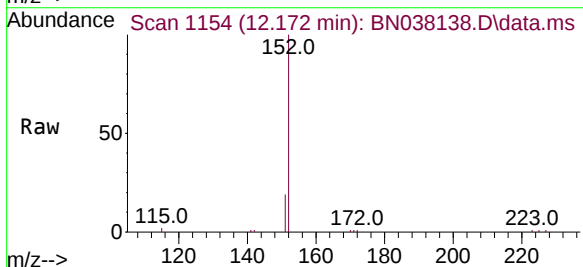
Instrument :  
 BNA\_N  
 ClientSampleId :  
 RW7-SP100-20251030

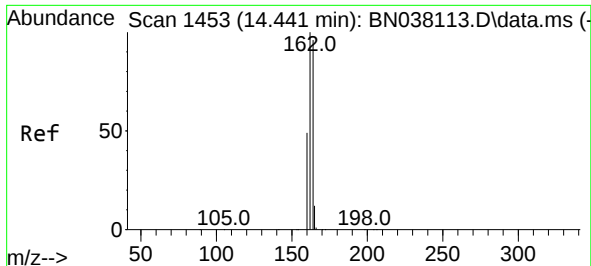
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 5875  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 45.7  | 34.1  | 51.1  |
| 54       | 53.9  | 43.5  | 65.3  |



#11  
 2-Methylnaphthalene-d10  
 Concen: 0.284 ng  
 RT: 12.172 min Scan# 1154  
 Delta R.T. -0.005 min  
 Lab File: BN038138.D  
 Acq: 04 Nov 2025 15:57

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 152   | Resp: | 10503 |
| Ion      | Ratio | Lower | Upper |
| 152      | 100   |       |       |
| 151      | 21.0  | 16.8  | 25.2  |

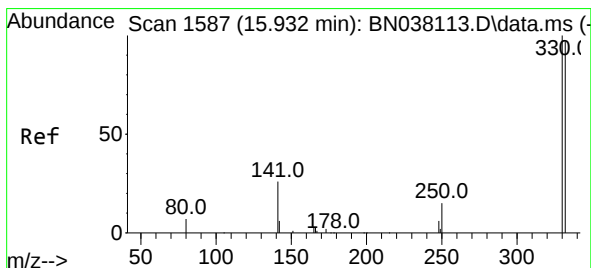
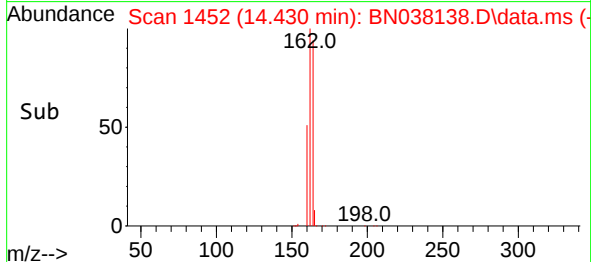
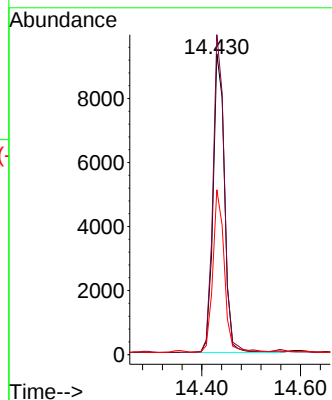
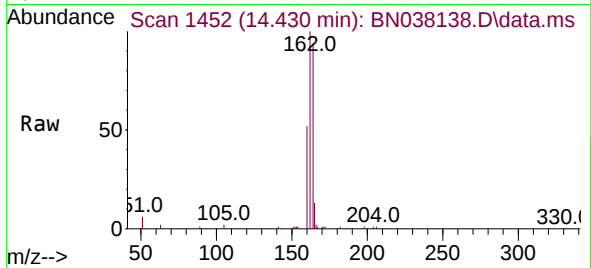




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.430 min Scan# 14  
Delta R.T. -0.000 min  
Lab File: BN038138.D  
Acq: 04 Nov 2025 15:57

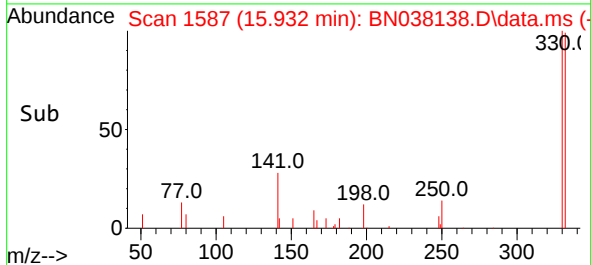
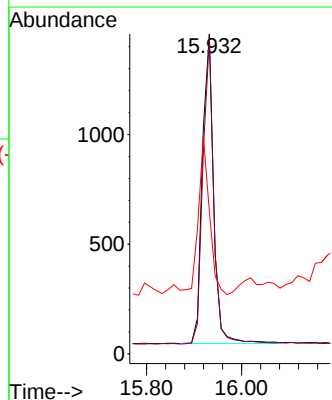
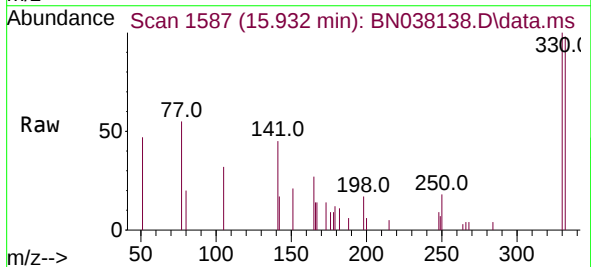
Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP100-20251030

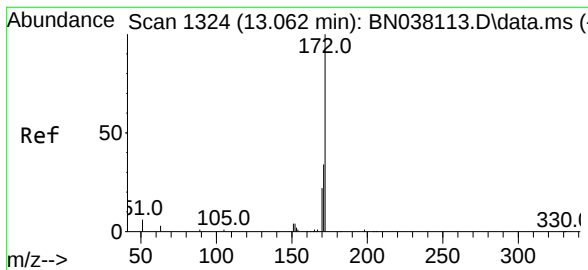
Tgt Ion:164 Resp: 14999  
Ion Ratio Lower Upper  
164 100  
162 106.3 83.0 124.4  
160 54.8 40.7 61.1



#14  
2,4,6-Tribromophenol  
Concen: 0.375 ng  
RT: 15.932 min Scan# 1587  
Delta R.T. 0.000 min  
Lab File: BN038138.D  
Acq: 04 Nov 2025 15:57

Tgt Ion:330 Resp: 2316  
Ion Ratio Lower Upper  
330 100  
332 95.3 76.6 114.8  
141 50.2 34.1 51.1

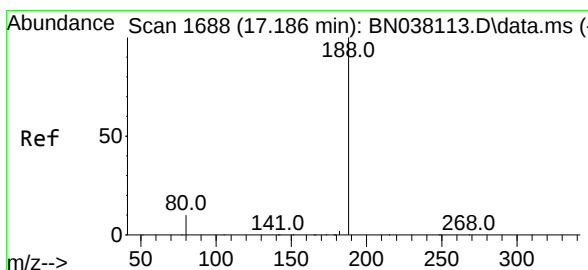
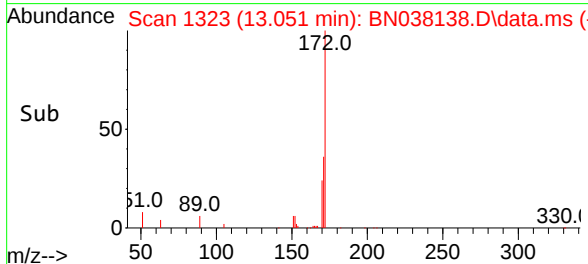
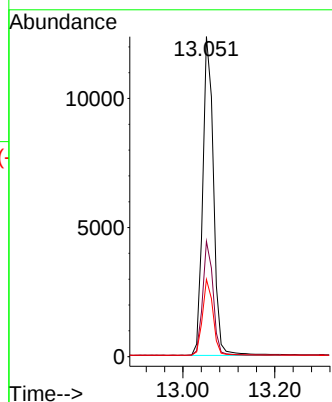
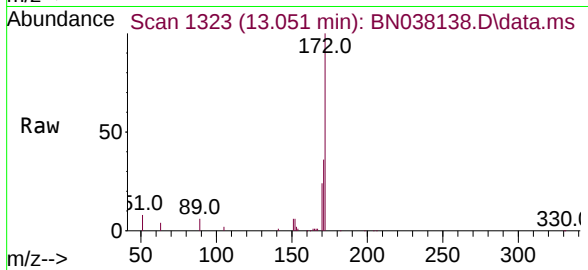




#15  
2-Fluorobiphenyl  
Concen: 0.309 ng  
RT: 13.051 min Scan# 1323  
Delta R.T. -0.000 min  
Lab File: BN038138.D  
Acq: 04 Nov 2025 15:57

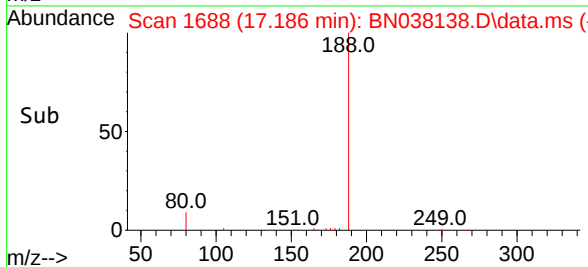
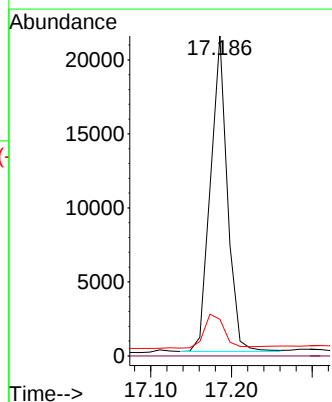
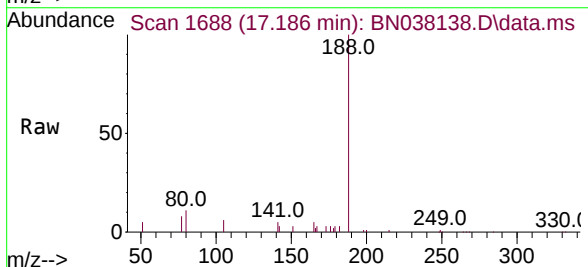
Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP100-20251030

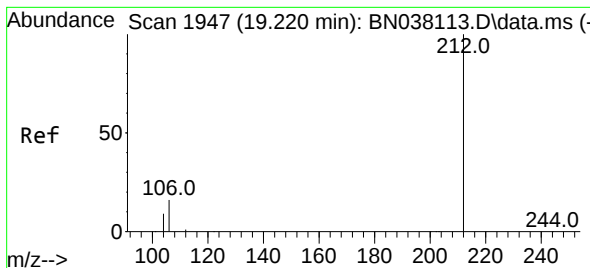
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 172   | Resp: | 18588 |
| Ion Ratio | Lower | Upper |       |
| 172       | 100   |       |       |
| 171       | 36.0  | 27.8  | 41.6  |
| 170       | 24.2  | 18.1  | 27.1  |



#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 17.186 min Scan# 1688  
Delta R.T. -0.000 min  
Lab File: BN038138.D  
Acq: 04 Nov 2025 15:57

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 188   | Resp: | 31102 |
| Ion Ratio | Lower | Upper |       |
| 188       | 100   |       |       |
| 94        | 0.0   | 0.0   | 0.0   |
| 80        | 11.4  | 8.6   | 13.0  |





#27

Fluoranthene-d10

Concen: 0.429 ng

RT: 19.220 min Scan# 1947

Delta R.T. -0.000 min

Lab File: BN038138.D

Acq: 04 Nov 2025 15:57

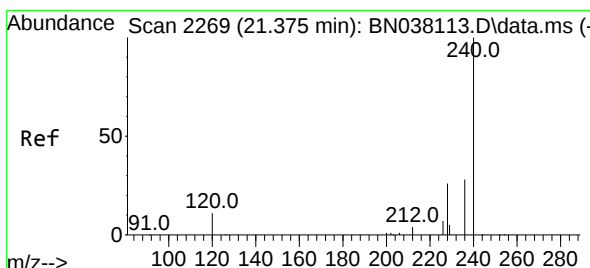
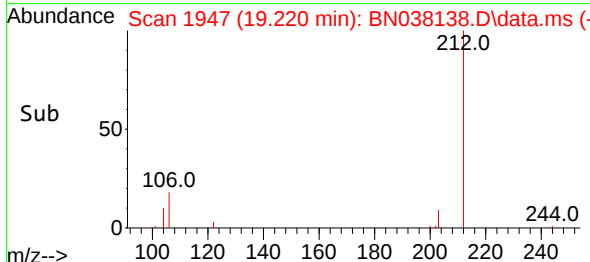
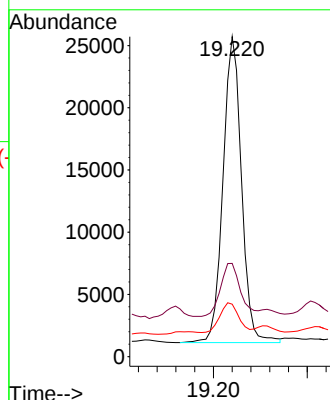
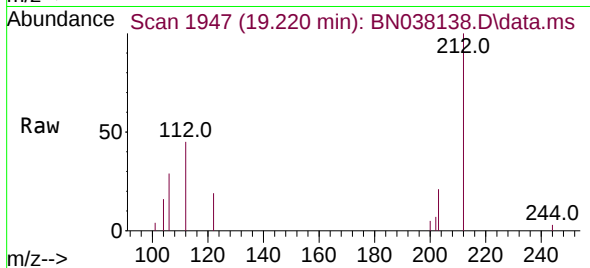
Instrument :

BNA\_N

ClientSampleId :

RW7-SP100-20251030

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:212 | Resp: | 33654     |
| Ion Ratio   | Lower | Upper     |
| 212         | 100   |           |
| 106         | 18.8  | 12.6 19.0 |
| 104         | 9.7   | 7.1 10.7  |



#29

Chrysene-d12

Concen: 0.400 ng

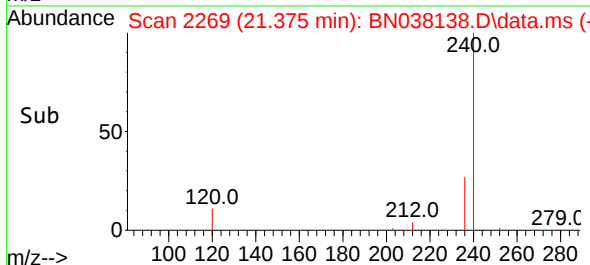
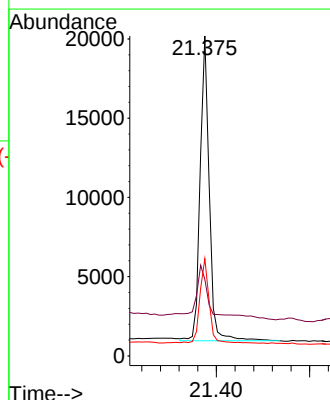
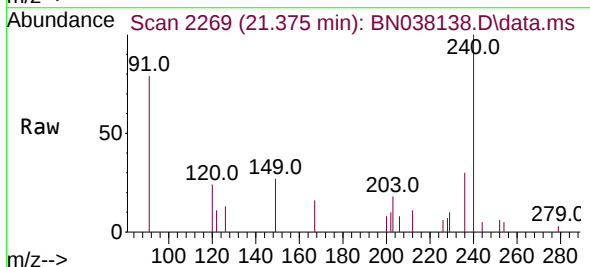
RT: 21.375 min Scan# 2269

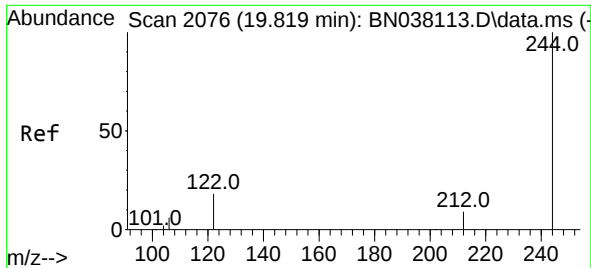
Delta R.T. -0.000 min

Lab File: BN038138.D

Acq: 04 Nov 2025 15:57

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:240 | Resp: | 25933     |
| Ion Ratio   | Lower | Upper     |
| 240         | 100   |           |
| 120         | 23.9  | 10.7 16.1 |
| 236         | 30.4  | 23.1 34.7 |

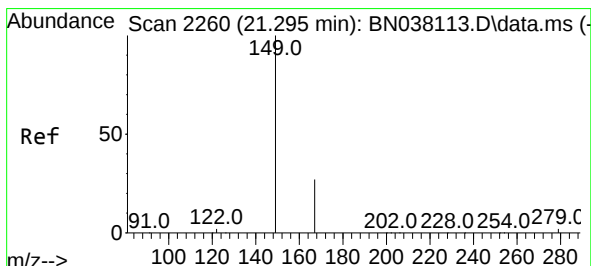
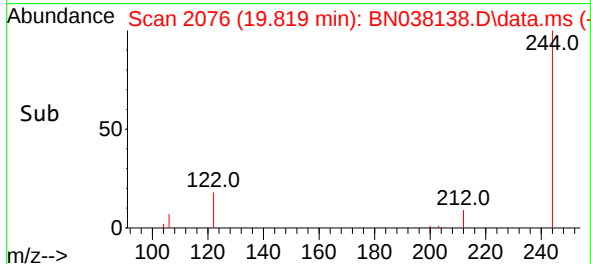
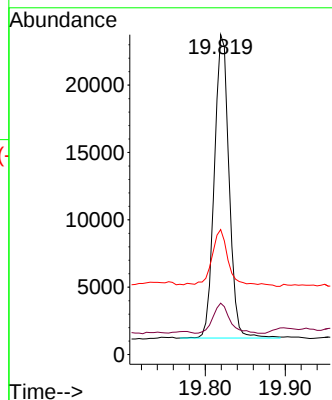
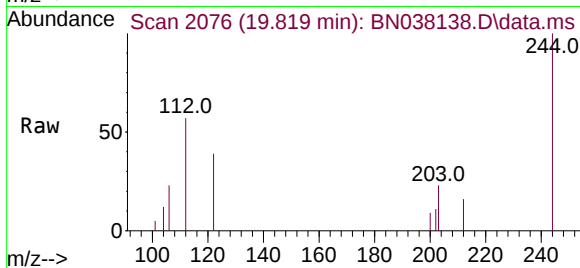




#31  
 Terphenyl-d14  
 Concen: 0.513 ng  
 RT: 19.819 min Scan# 2076  
 Delta R.T. -0.000 min  
 Lab File: BN038113.D  
 Acq: 04 Nov 2025 15:57

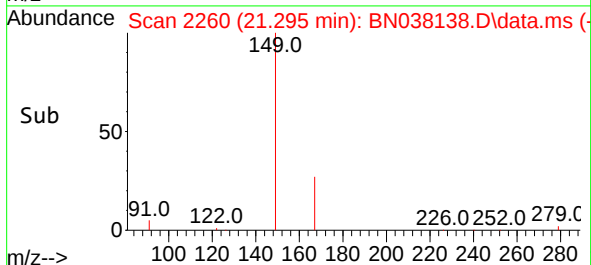
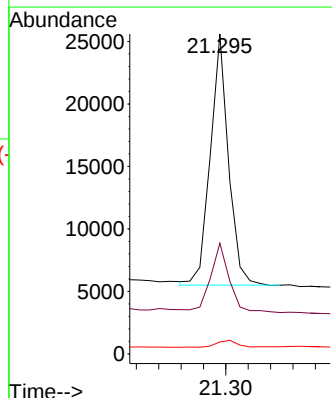
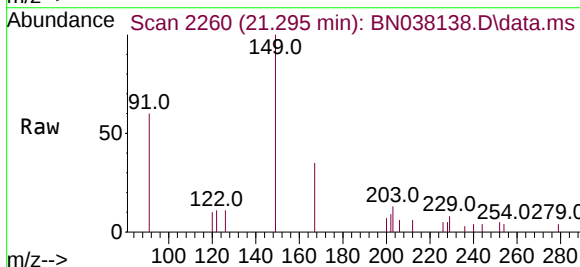
Instrument :  
 BNA\_N  
 ClientSampleId :  
 RW7-SP100-20251030

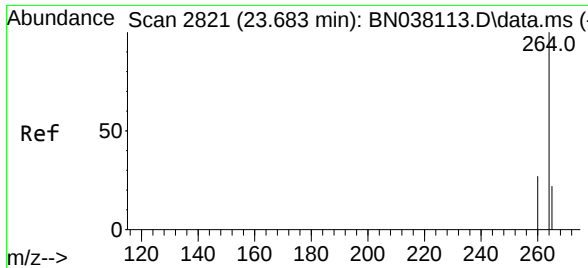
Tgt Ion:244 Resp: 28902  
 Ion Ratio Lower Upper  
 244 100  
 212 16.1 7.8 11.6#  
 122 39.1 15.2 22.8#



#34  
 Bis(2-ethylhexyl)phthalate  
 Concen: 0.464 ng  
 RT: 21.295 min Scan# 2260  
 Delta R.T. -0.000 min  
 Lab File: BN038138.D  
 Acq: 04 Nov 2025 15:57

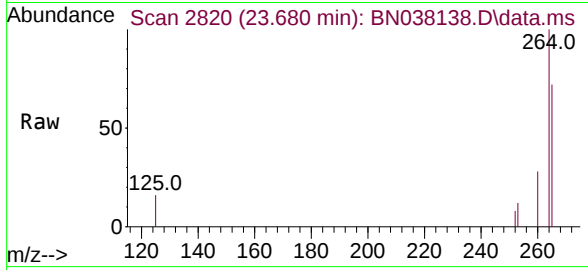
Tgt Ion:149 Resp: 22629  
 Ion Ratio Lower Upper  
 149 100  
 167 28.4 21.1 31.7  
 279 3.1 2.9 4.3





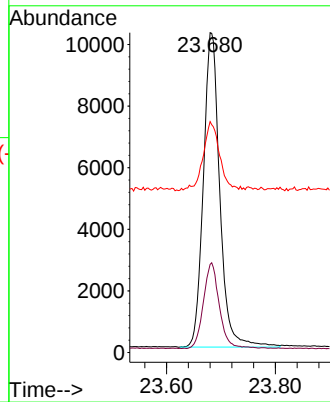
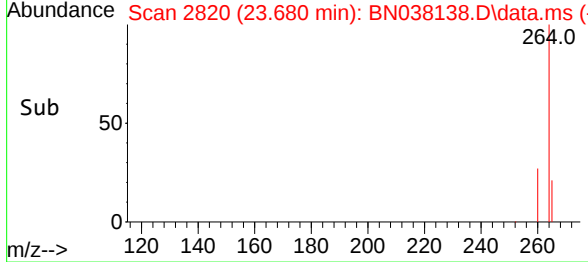
#35  
 Perylene-d12  
 Concen: 0.400 ng  
 RT: 23.680 min Scan# 2821  
 Delta R.T. -0.000 min  
 Lab File: BN038138.D  
 Acq: 04 Nov 2025 15:57

Instrument :  
 BNA\_N  
 ClientSampleId :  
 RW7-SP100-20251030



Tgt Ion:264 Resp: 21372

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 27.6  | 21.8  | 32.8  |
| 265 | 72.2  | 68.6  | 102.8 |



## Report of Analysis

|                    |                               |                     |                 |                |
|--------------------|-------------------------------|---------------------|-----------------|----------------|
| Client:            | Tetra Tech NUS, Inc.          |                     | Date Collected: | 10/30/25       |
| Project:           | NWIRP Bethpage 112G08005-WE13 |                     | Date Received:  | 11/03/25       |
| Client Sample ID:  | RW7-SP201-20251030            |                     | SDG No.:        | Q3526          |
| Lab Sample ID:     | Q3526-02                      |                     | Matrix:         | Water          |
| Analytical Method: | SW8270ESIM                    | Level: LOW          | % Solid:        | 0              |
| Sample Wt/Vol:     | 1000 mL                       | Final Vol: 1000 uL  | Test:           | SVOC-SIMGroup1 |
| Prep Method :      | 3510C                         | Prep Date: 11/03/25 |                 |                |

| CAS Number                | Parameter               | Conc.             | Qua. | DF | MDL      | LOD  | LOQ / CRQL | Units    | Date Ana.      | Prep BatchID |
|---------------------------|-------------------------|-------------------|------|----|----------|------|------------|----------|----------------|--------------|
| <b>TARGETS</b>            |                         |                   |      |    |          |      |            |          |                |              |
| 123-91-1                  | 1,4-Dioxane             | 0.20              | UQ   | 1  | 0.070    | 0.20 | 0.20       | ug/L     | 11/04/25 16:34 | PB170381     |
| <b>SURROGATES</b>         |                         |                   |      |    |          |      |            |          |                |              |
| 7297-45-2                 | 2-Methylnaphthalene-d10 | 0.30              |      |    | 30 - 150 |      | 76%        | SPK: 0.4 |                |              |
| 93951-69-0                | Fluoranthene-d10        | 0.38              |      |    | 30 - 150 |      | 94%        | SPK: 0.4 |                |              |
| 4165-60-0                 | Nitrobenzene-d5         | 0.31              |      |    | 55 - 111 |      | 76%        | SPK: 0.4 |                |              |
| 321-60-8                  | 2-Fluorobiphenyl        | 0.31              |      |    | 53 - 106 |      | 77%        | SPK: 0.4 |                |              |
| 1718-51-0                 | Terphenyl-d14           | 0.56              | *    |    | 58 - 132 |      | 140%       | SPK: 0.4 |                |              |
| <b>INTERNAL STANDARDS</b> |                         |                   |      |    |          |      |            |          |                |              |
|                           |                         | <b>Area Count</b> |      |    |          |      |            |          |                |              |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4  | 8640              |      |    |          |      |            |          |                |              |
| 1146-65-2                 | Naphthalene-d8          | 26000             |      |    |          |      |            |          |                |              |
| 15067-26-2                | Acenaphthene-d10        | 15200             |      |    |          |      |            |          |                |              |
| 1517-22-2                 | Phenanthrene-d10        | 28300             |      |    |          |      |            |          |                |              |
| 1719-03-5                 | Chrysene-d12            | 19100             |      |    |          |      |            |          |                |              |
| 1520-96-3                 | Perylene-d12            | 15000             |      |    |          |      |            |          |                |              |

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\BN110425\  
 Data File : BN038139.D  
 Acq On : 04 Nov 2025 16:34  
 Operator : RC/JU  
 Sample : Q3526-02  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 RW7-SP201-20251030

Quant Time: Nov 04 16:59:16 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN102825.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Oct 29 13:09:46 2025  
 Response via : Initial Calibration

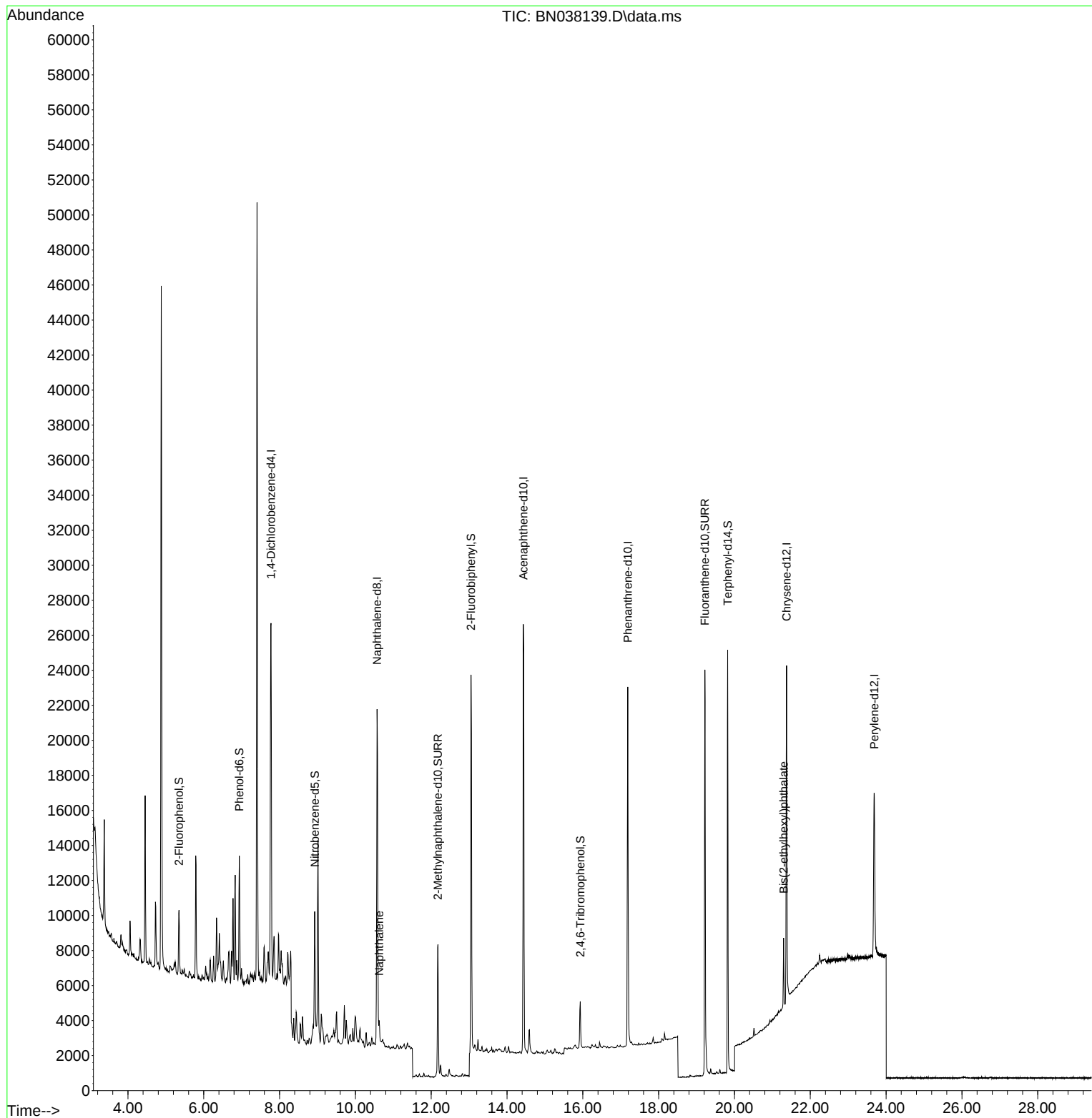
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.775  | 152  | 8635     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.573 | 136  | 25969    | 0.400 | ng    | # 0.00   |
| 13) Acenaphthene-d10          | 14.430 | 164  | 15192    | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 17.186 | 188  | 28331    | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 21.375 | 240  | 19063    | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.686 | 264  | 14967    | 0.400 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.348  | 112  | 2921     | 0.144 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.937  | 99   | 2056     | 0.083 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.929  | 82   | 6392     | 0.305 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 12.177 | 152  | 11234    | 0.303 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.932 | 330  | 1744     | 0.279 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 13.051 | 172  | 18738    | 0.308 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 19.220 | 212  | 26931    | 0.377 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.819 | 244  | 23204    | 0.560 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
| 9) Naphthalene                | 10.626 | 128  | 1557     | 0.022 | ng    | # 76     |
| 34) Bis(2-ethylhexyl)phtha... | 21.295 | 149  | 3536     | 0.099 | ng    | # 99     |
| -----                         |        |      |          |       |       |          |

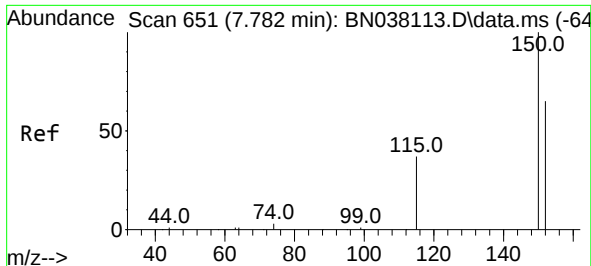
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN110425\  
Data File : BN038139.D  
Acq On : 04 Nov 2025 16:34  
Operator : RC/JU  
Sample : Q3526-02  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP201-20251030

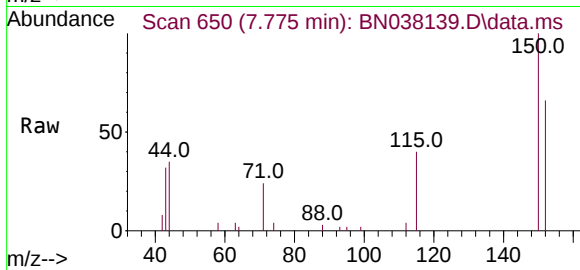
Quant Time: Nov 04 16:59:16 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN102825.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Oct 29 13:09:46 2025  
Response via : Initial Calibration



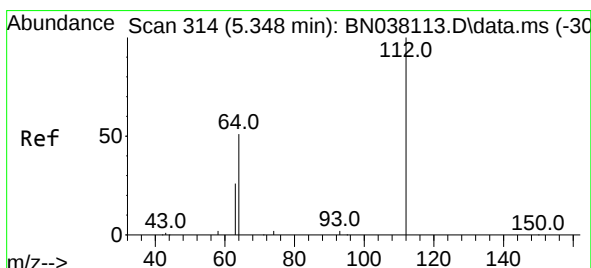
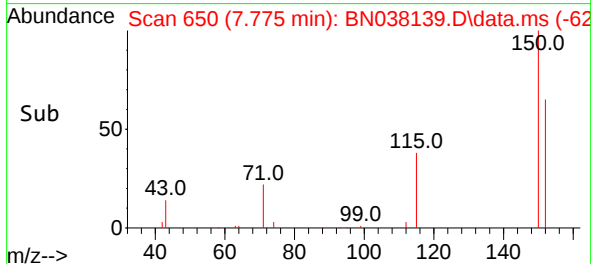
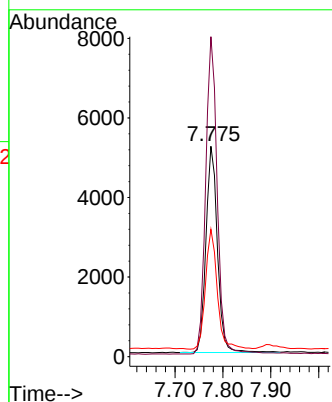


#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.775 min Scan# 651  
Delta R.T. -0.000 min  
Lab File: BN038139.D  
Acq: 04 Nov 2025 16:34

Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP201-20251030

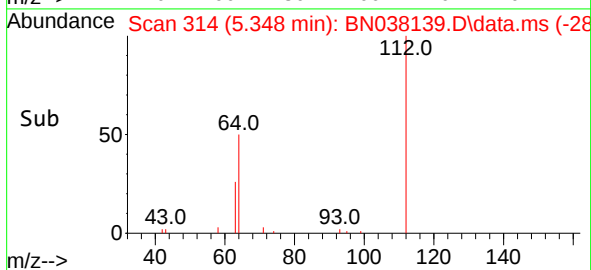
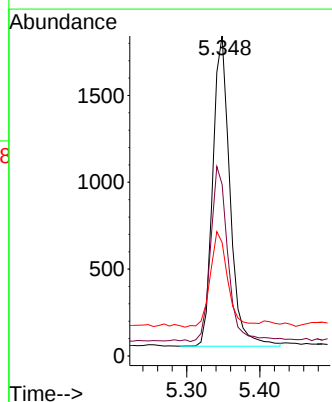
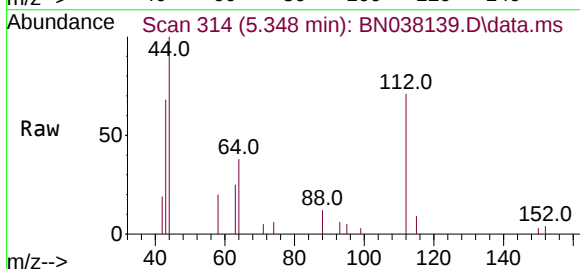


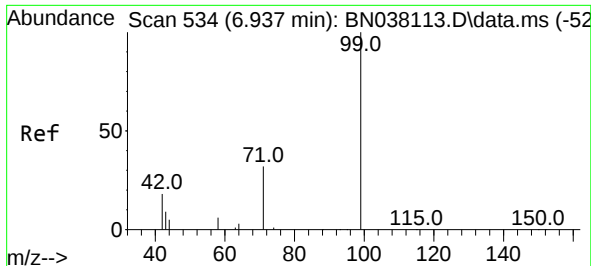
Tgt Ion:152 Resp: 8635  
Ion Ratio Lower Upper  
152 100  
150 152.2 122.3 183.5  
115 60.6 47.4 71.0



#4  
2-Fluorophenol  
Concen: 0.144 ng  
RT: 5.348 min Scan# 314  
Delta R.T. -0.000 min  
Lab File: BN038139.D  
Acq: 04 Nov 2025 16:34

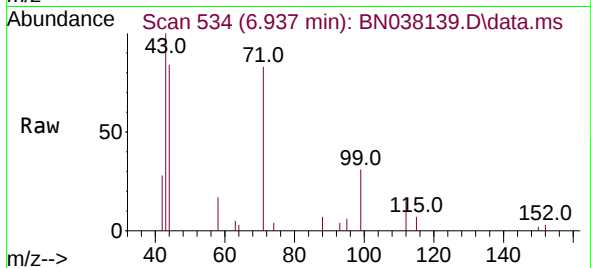
Tgt Ion:112 Resp: 2921  
Ion Ratio Lower Upper  
112 100  
64 57.8 45.4 68.0  
63 31.5 23.2 34.8



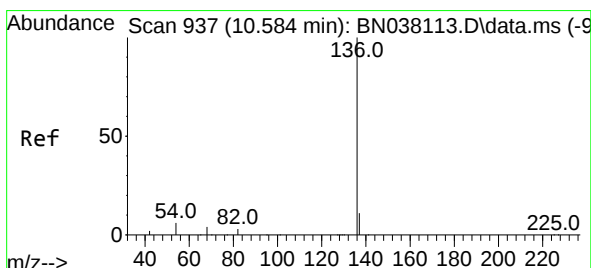
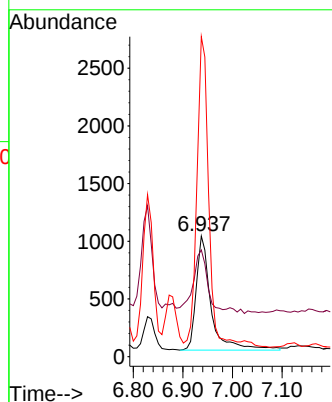
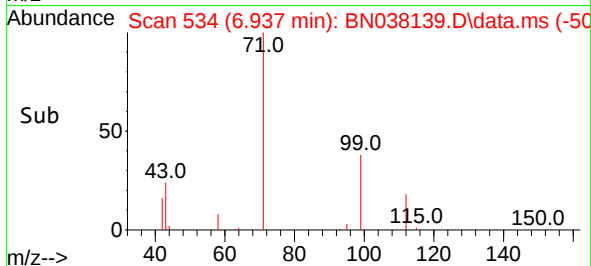


#5  
Phenol-d6  
Concen: 0.083 ng  
RT: 6.937 min Scan# 534  
Delta R.T. -0.000 min  
Lab File: BN038139.D  
Acq: 04 Nov 2025 16:34

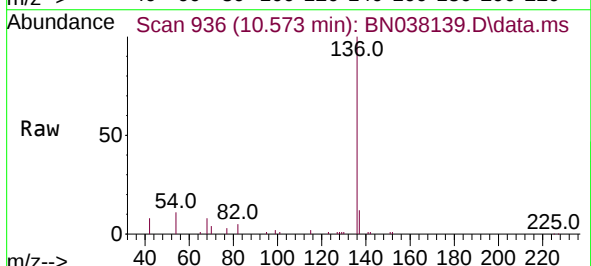
Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP201-20251030



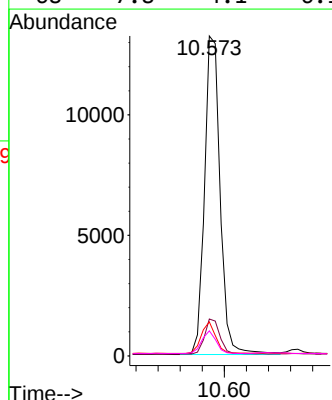
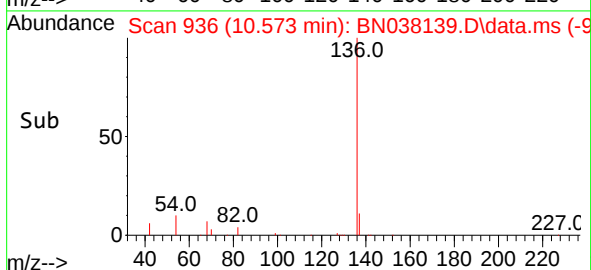
Tgt Ion: 99 Resp: 2056  
Ion Ratio Lower Upper  
99 100  
42 45.8 16.6 24.8#  
71 203.1 25.4 38.2#

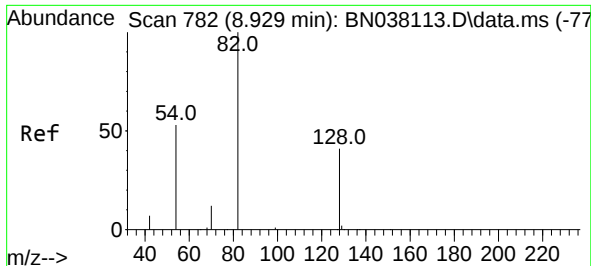


#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.573 min Scan# 936  
Delta R.T. -0.000 min  
Lab File: BN038139.D  
Acq: 04 Nov 2025 16:34



Tgt Ion: 136 Resp: 25969  
Ion Ratio Lower Upper  
136 100  
137 11.5 9.0 13.4  
54 10.6 5.2 7.8#  
68 7.8 4.1 6.1#

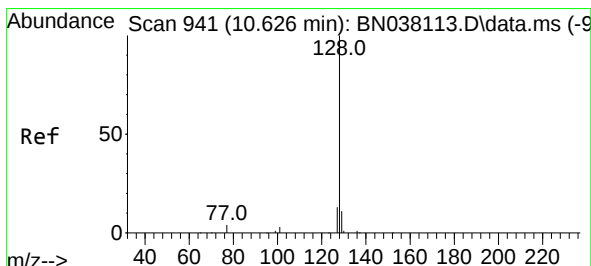
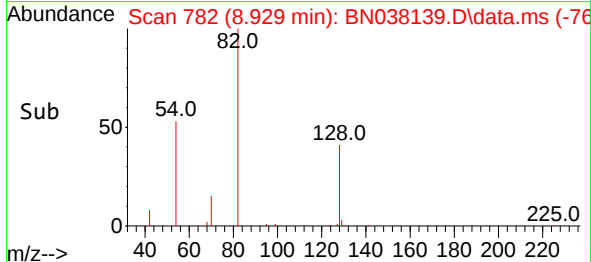
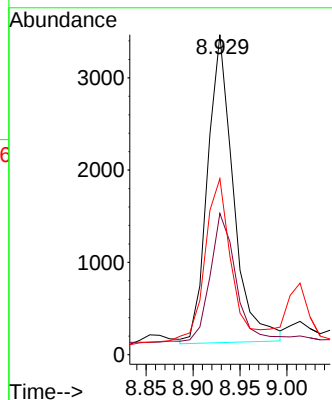
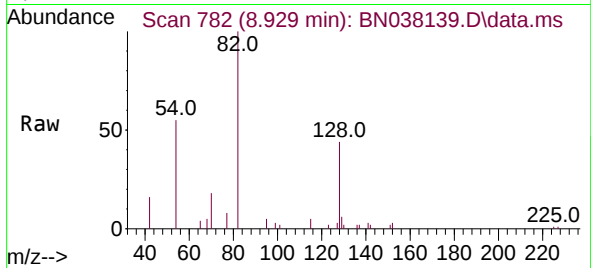




#8  
 Nitrobenzene-d5  
 Concen: 0.305 ng  
 RT: 8.929 min Scan# 782  
 Delta R.T. -0.000 min  
 Lab File: BN038139.D  
 Acq: 04 Nov 2025 16:34

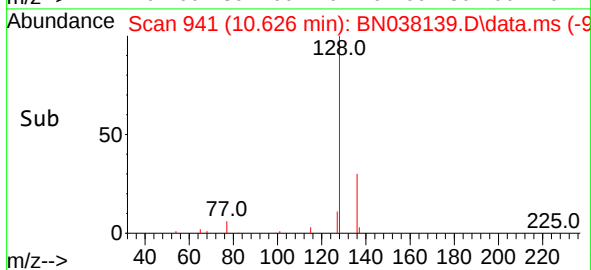
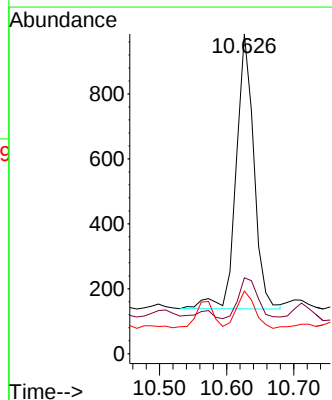
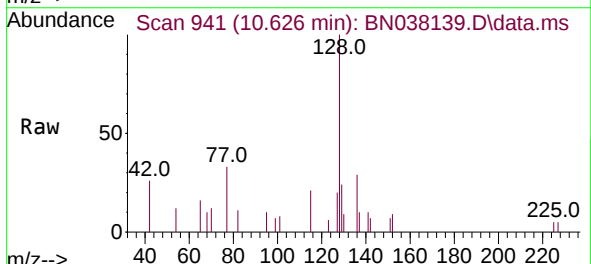
Instrument :  
 BNA\_N  
 ClientSampleId :  
 RW7-SP201-20251030

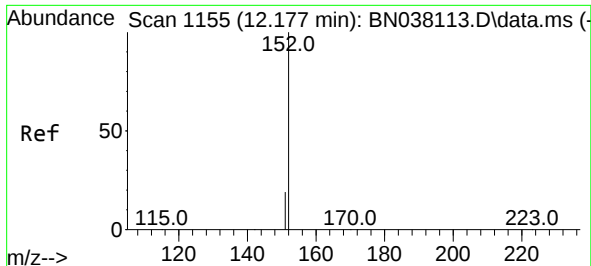
|             |                |
|-------------|----------------|
| Tgt Ion: 82 | Resp: 6392     |
| Ion Ratio   | Lower Upper    |
| 82          | 100            |
| 128         | 44.1 34.1 51.1 |
| 54          | 55.0 43.5 65.3 |



#9  
 Naphthalene  
 Concen: 0.022 ng  
 RT: 10.626 min Scan# 941  
 Delta R.T. -0.000 min  
 Lab File: BN038139.D  
 Acq: 04 Nov 2025 16:34

|              |                 |
|--------------|-----------------|
| Tgt Ion: 128 | Resp: 1557      |
| Ion Ratio    | Lower Upper     |
| 128          | 100             |
| 129          | 23.8 9.1 13.7#  |
| 127          | 19.6 10.5 15.7# |

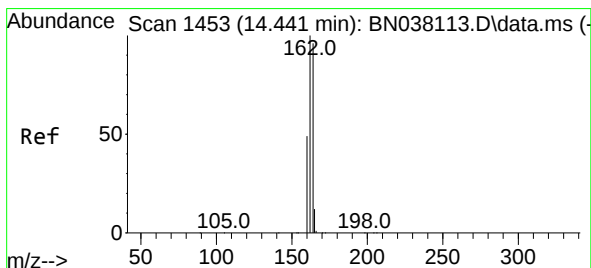
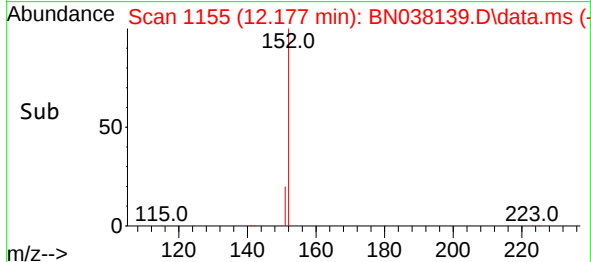
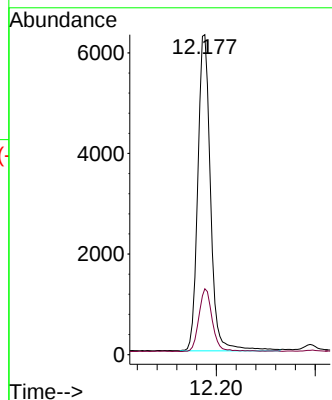
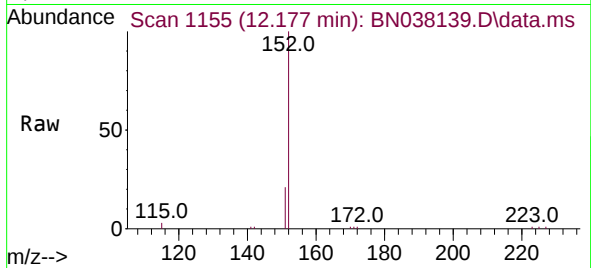




#11  
2-Methylnaphthalene-d10  
Concen: 0.303 ng  
RT: 12.177 min Scan# 1155  
Delta R.T. -0.000 min  
Lab File: BN038139.D  
Acq: 04 Nov 2025 16:34

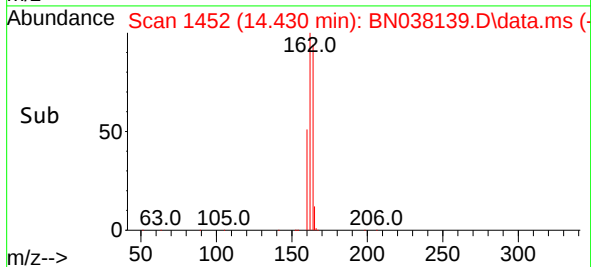
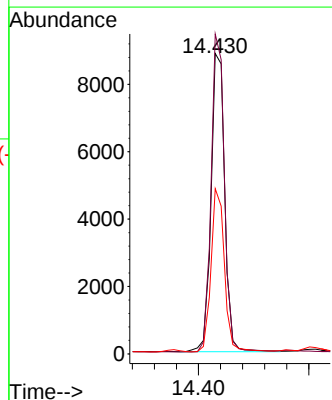
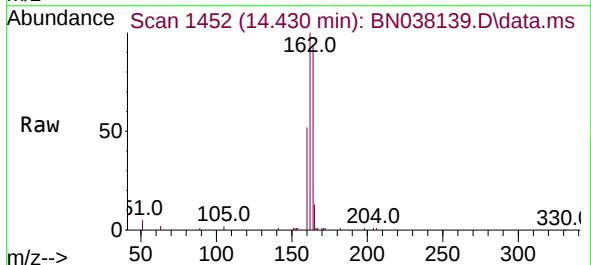
Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP201-20251030

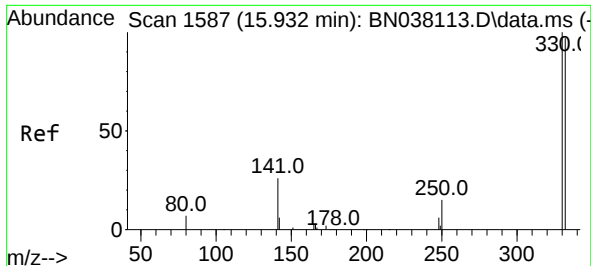
Tgt Ion:152 Resp: 11234  
Ion Ratio Lower Upper  
152 100  
151 20.7 16.8 25.2



#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.430 min Scan# 1452  
Delta R.T. -0.000 min  
Lab File: BN038139.D  
Acq: 04 Nov 2025 16:34

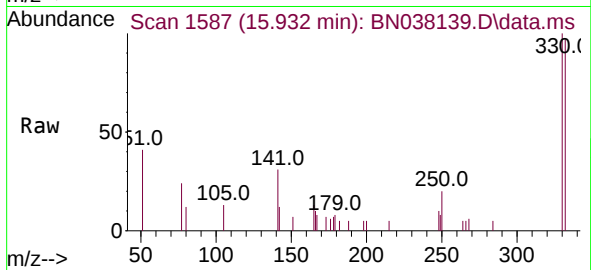
Tgt Ion:164 Resp: 15192  
Ion Ratio Lower Upper  
164 100  
162 106.5 83.0 124.4  
160 55.0 40.7 61.1



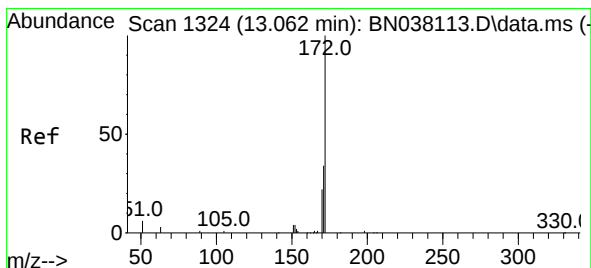
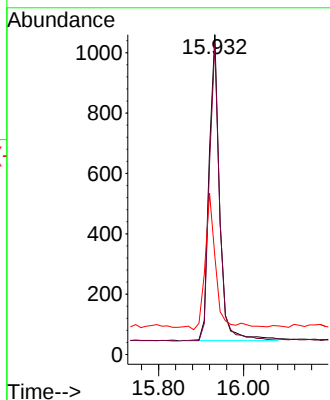
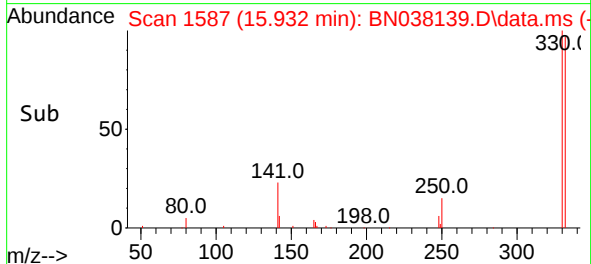


#14  
2,4,6-Tribromophenol  
Concen: 0.279 ng  
RT: 15.932 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: BN038139.D  
Acq: 04 Nov 2025 16:34

Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP201-20251030

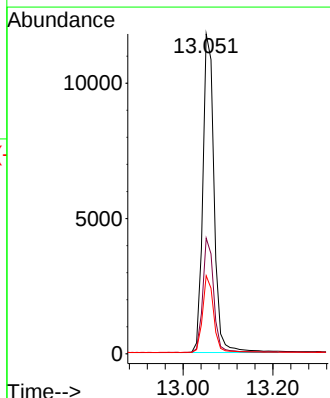
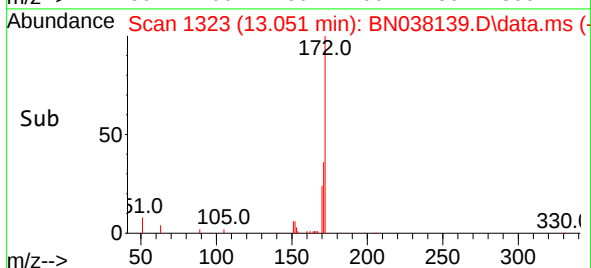
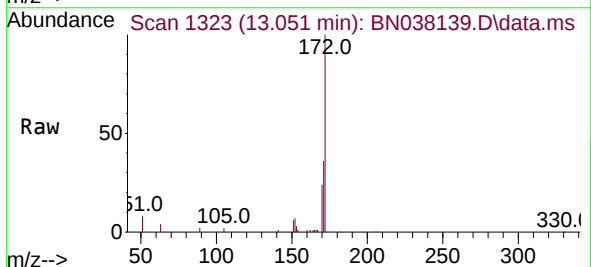


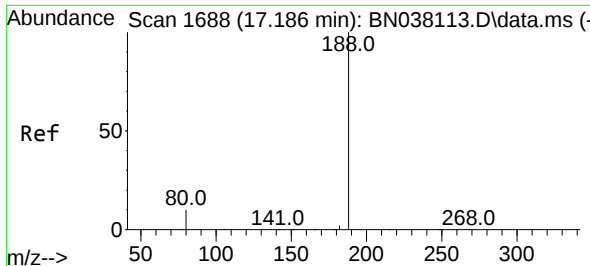
Tgt Ion:330 Resp: 1744  
Ion Ratio Lower Upper  
330 100  
332 95.9 76.6 114.8  
141 43.8 34.1 51.1



#15  
2-Fluorobiphenyl  
Concen: 0.308 ng  
RT: 13.051 min Scan# 1323  
Delta R.T. -0.000 min  
Lab File: BN038139.D  
Acq: 04 Nov 2025 16:34

Tgt Ion:172 Resp: 18738  
Ion Ratio Lower Upper  
172 100  
171 36.2 27.8 41.6  
170 24.4 18.1 27.1

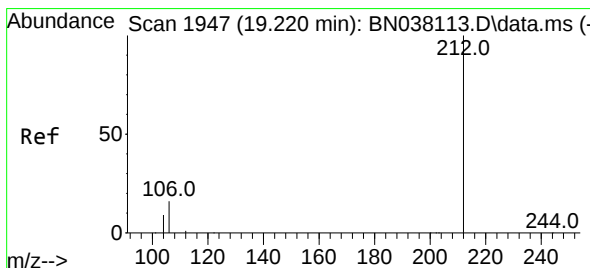
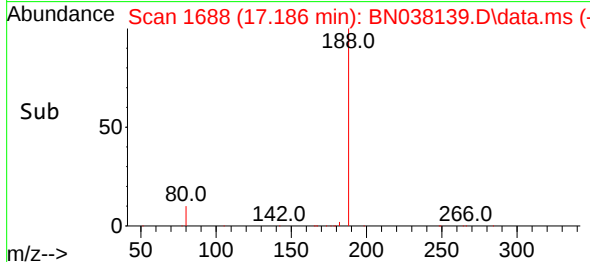
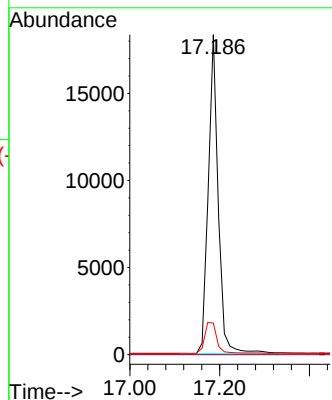
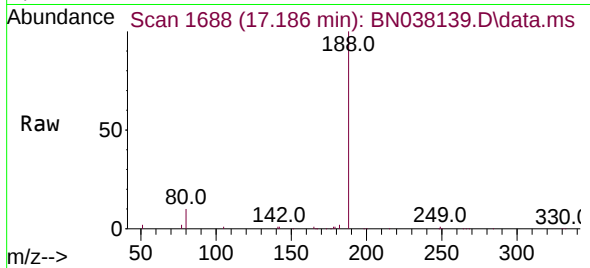




#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 17.186 min Scan# 1688  
Delta R.T. -0.000 min  
Lab File: BN038139.D  
Acq: 04 Nov 2025 16:34

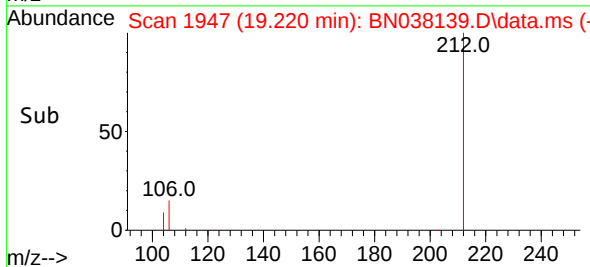
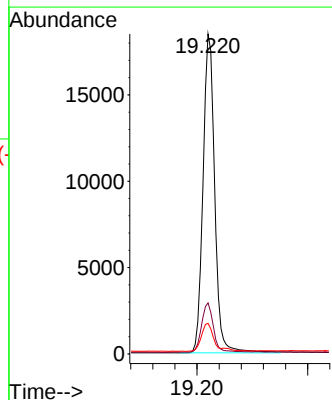
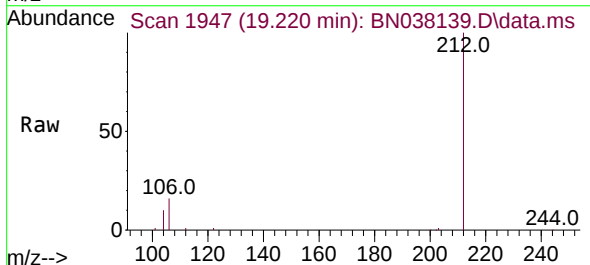
Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP201-20251030

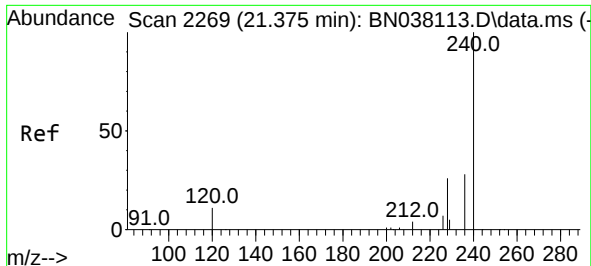
Tgt Ion:188 Resp: 28331  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 9.9 8.6 13.0



#27  
Fluoranthene-d10  
Concen: 0.377 ng  
RT: 19.220 min Scan# 1947  
Delta R.T. -0.000 min  
Lab File: BN038139.D  
Acq: 04 Nov 2025 16:34

Tgt Ion:212 Resp: 26931  
Ion Ratio Lower Upper  
212 100  
106 15.5 12.6 19.0  
104 9.7 7.1 10.7

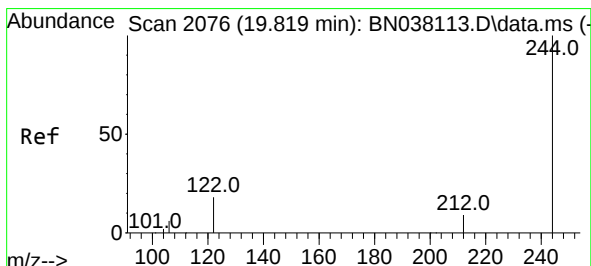
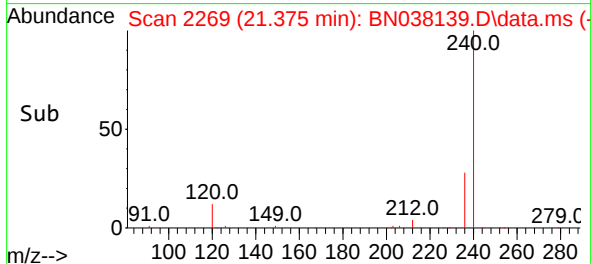
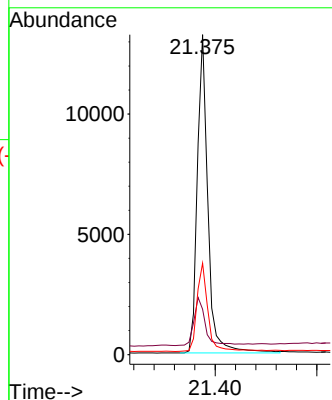
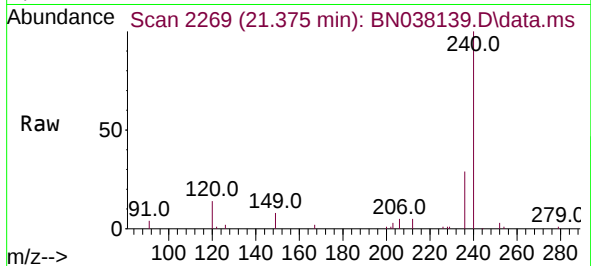




#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.375 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: BN038139.D  
Acq: 04 Nov 2025 16:34

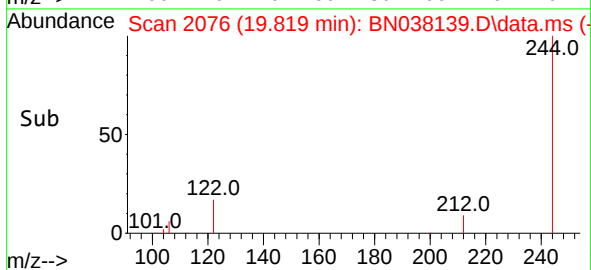
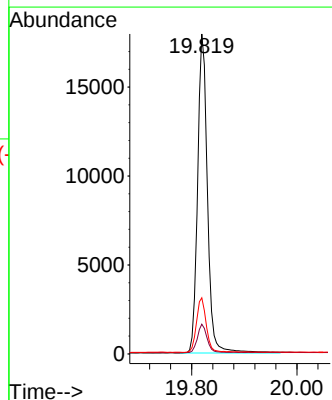
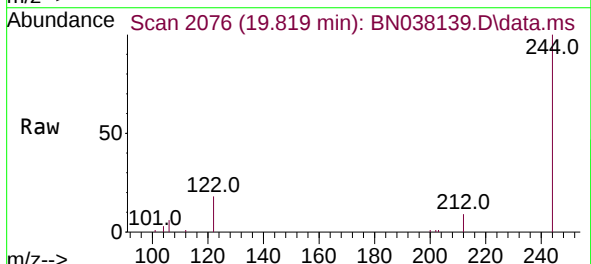
Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP201-20251030

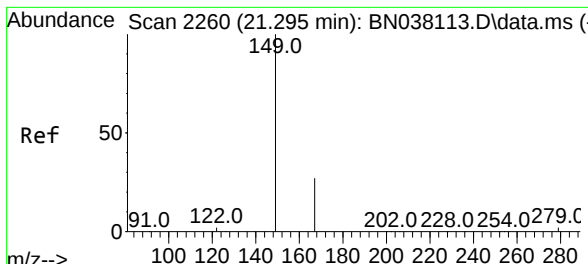
Tgt Ion:240 Resp: 19063  
Ion Ratio Lower Upper  
240 100  
120 14.2 10.7 16.1  
236 28.6 23.1 34.7



#31  
Terphenyl-d14  
Concen: 0.560 ng  
RT: 19.819 min Scan# 2076  
Delta R.T. -0.000 min  
Lab File: BN038139.D  
Acq: 04 Nov 2025 16:34

Tgt Ion:244 Resp: 23204  
Ion Ratio Lower Upper  
244 100  
212 9.3 7.8 11.6  
122 17.5 15.2 22.8

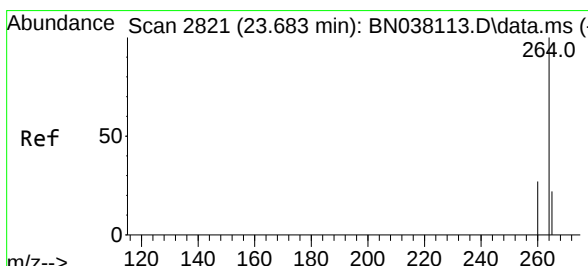
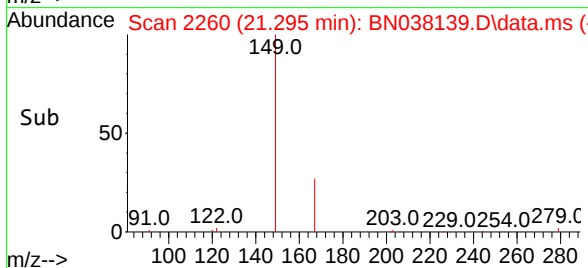
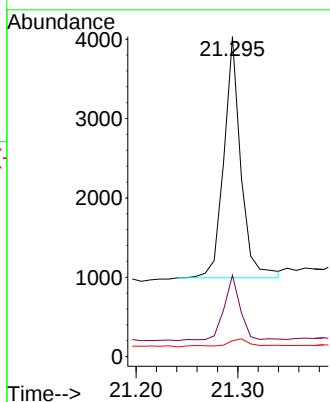
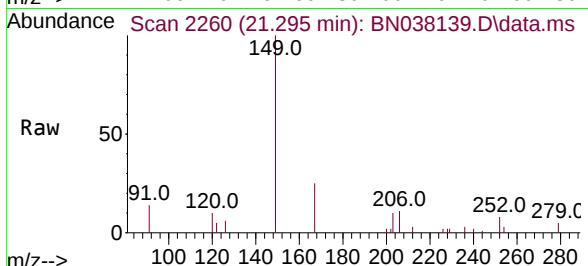




#34  
 Bis(2-ethylhexyl)phthalate  
 Concen: 0.099 ng  
 RT: 21.295 min Scan# 21  
 Delta R.T. -0.000 min  
 Lab File: BN038139.D  
 Acq: 04 Nov 2025 16:34

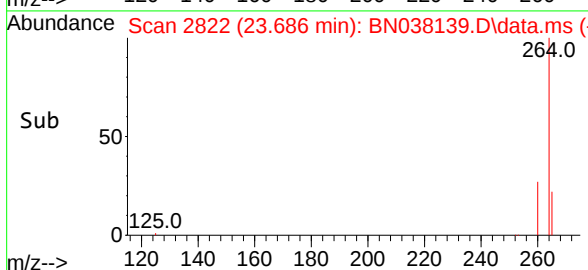
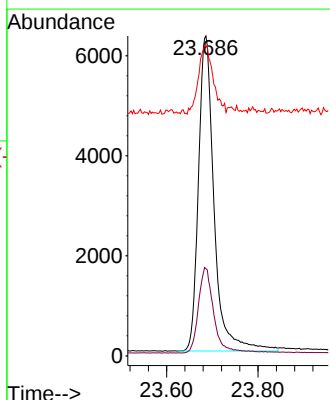
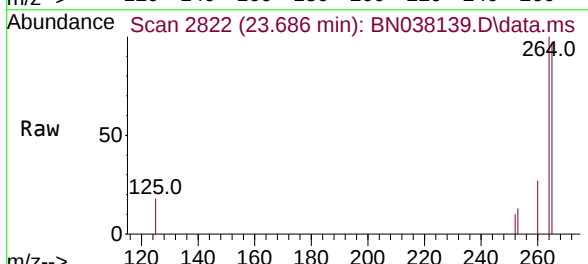
Instrument :  
 BNA\_N  
 ClientSampleId :  
 RW7-SP201-20251030

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 149   | Resp: | 3536 |
| Ion Ratio | Lower | Upper |      |
| 149       | 100   |       |      |
| 167       | 26.5  | 21.1  | 31.7 |
| 279       | 5.5   | 2.9   | 4.3# |



#35  
 Perylene-d12  
 Concen: 0.400 ng  
 RT: 23.686 min Scan# 2822  
 Delta R.T. 0.006 min  
 Lab File: BN038139.D  
 Acq: 04 Nov 2025 16:34

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 264   | Resp: | 14967 |
| Ion Ratio | Lower | Upper |       |
| 264       | 100   |       |       |
| 260       | 27.3  | 21.8  | 32.8  |
| 265       | 96.7  | 68.6  | 102.8 |



## Report of Analysis

|                    |                               |                     |                 |                |
|--------------------|-------------------------------|---------------------|-----------------|----------------|
| Client:            | Tetra Tech NUS, Inc.          |                     | Date Collected: | 10/30/25       |
| Project:           | NWIRP Bethpage 112G08005-WE13 |                     | Date Received:  | 11/03/25       |
| Client Sample ID:  | RW7-SP302-20251030            |                     | SDG No.:        | Q3526          |
| Lab Sample ID:     | Q3526-03                      |                     | Matrix:         | Water          |
| Analytical Method: | SW8270ESIM                    | Level: LOW          | % Solid:        | 0              |
| Sample Wt/Vol:     | 940 mL                        | Final Vol: 1000 uL  | Test:           | SVOC-SIMGroup1 |
| Prep Method :      | 3510C                         | Prep Date: 11/03/25 |                 |                |

| CAS Number                | Parameter               | Conc.             | Qua. | DF | MDL      | LOD  | LOQ / CRQL | Units    | Date Ana.      | Prep BatchID |
|---------------------------|-------------------------|-------------------|------|----|----------|------|------------|----------|----------------|--------------|
| <b>TARGETS</b>            |                         |                   |      |    |          |      |            |          |                |              |
| 123-91-1                  | 1,4-Dioxane             | 0.21              | UQ   | 1  | 0.070    | 0.21 | 0.21       | ug/L     | 11/04/25 17:10 | PB170381     |
| <b>SURROGATES</b>         |                         |                   |      |    |          |      |            |          |                |              |
| 7297-45-2                 | 2-Methylnaphthalene-d10 | 0.32              |      |    | 30 - 150 |      | 79%        | SPK: 0.4 |                |              |
| 93951-69-0                | Fluoranthene-d10        | 0.36              |      |    | 30 - 150 |      | 90%        | SPK: 0.4 |                |              |
| 4165-60-0                 | Nitrobenzene-d5         | 0.33              |      |    | 55 - 111 |      | 81%        | SPK: 0.4 |                |              |
| 321-60-8                  | 2-Fluorobiphenyl        | 0.36              |      |    | 53 - 106 |      | 90%        | SPK: 0.4 |                |              |
| 1718-51-0                 | Terphenyl-d14           | 0.59              | *    |    | 58 - 132 |      | 148%       | SPK: 0.4 |                |              |
| <b>INTERNAL STANDARDS</b> |                         |                   |      |    |          |      |            |          |                |              |
|                           |                         | <b>Area Count</b> |      |    |          |      |            |          |                |              |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4  | 8570              |      |    |          |      |            |          |                |              |
| 1146-65-2                 | Naphthalene-d8          | 25600             |      |    |          |      |            |          |                |              |
| 15067-26-2                | Acenaphthene-d10        | 14300             |      |    |          |      |            |          |                |              |
| 1517-22-2                 | Phenanthrene-d10        | 27500             |      |    |          |      |            |          |                |              |
| 1719-03-5                 | Chrysene-d12            | 16400             |      |    |          |      |            |          |                |              |
| 1520-96-3                 | Perylene-d12            | 13000             |      |    |          |      |            |          |                |              |

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\BN110425\  
 Data File : BN038140.D  
 Acq On : 04 Nov 2025 17:10  
 Operator : RC/JU  
 Sample : Q3526-03  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 RW7-SP302-20251030

Quant Time: Nov 04 17:34:32 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN102825.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Oct 29 13:09:46 2025  
 Response via : Initial Calibration

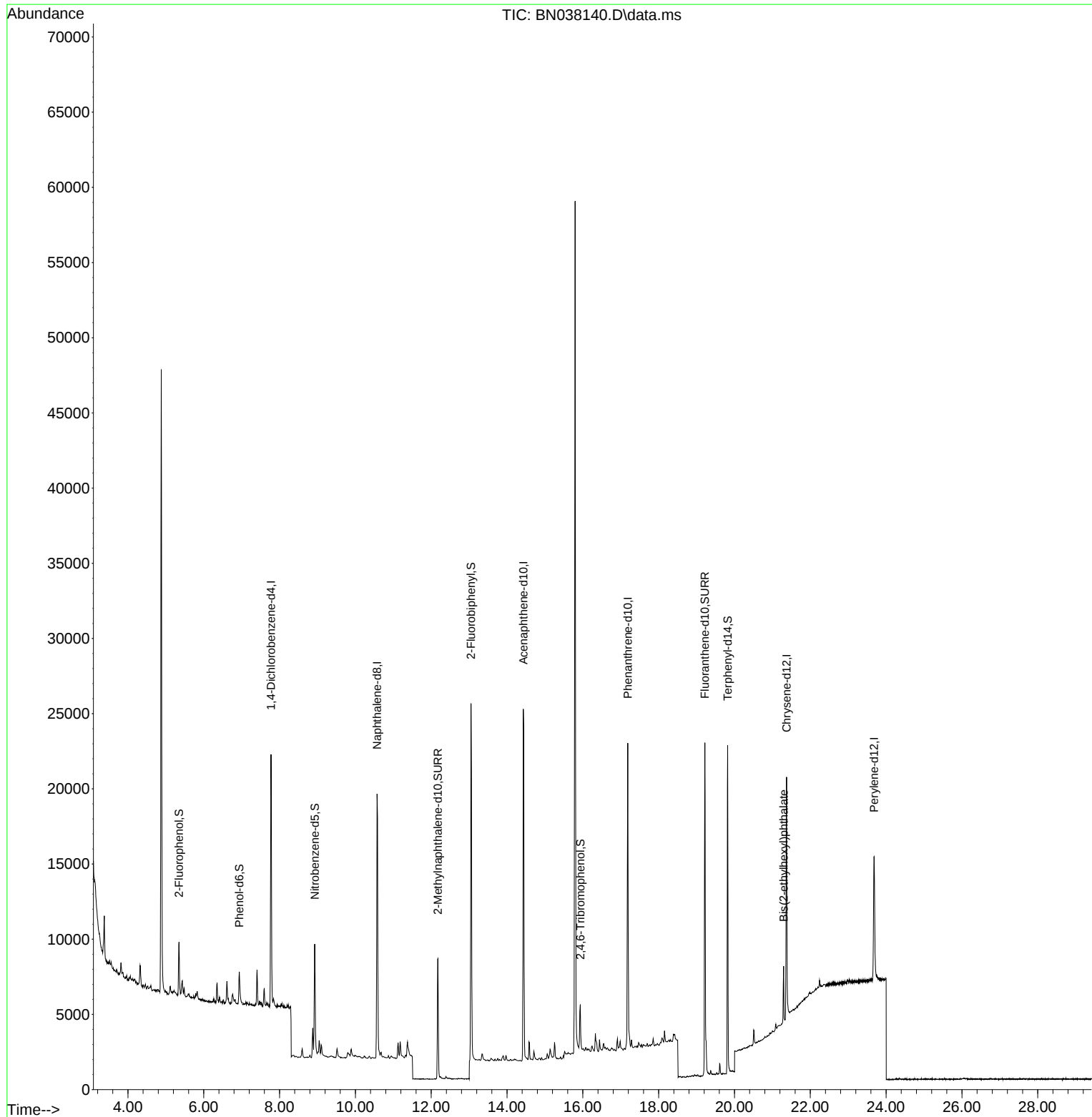
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min)    |
|-------------------------------|--------|------|----------|-------|-------|-------------|
| -----                         |        |      |          |       |       |             |
| Internal Standards            |        |      |          |       |       |             |
| 1) 1,4-Dichlorobenzene-d4     | 7.775  | 152  | 8568     | 0.400 | ng    | 0.00        |
| 7) Naphthalene-d8             | 10.573 | 136  | 25578    | 0.400 | ng    | # 0.00      |
| 13) Acenaphthene-d10          | 14.430 | 164  | 14324    | 0.400 | ng    | 0.00        |
| 19) Phenanthrene-d10          | 17.186 | 188  | 27505    | 0.400 | ng    | 0.00        |
| 29) Chrysene-d12              | 21.375 | 240  | 16355    | 0.400 | ng    | 0.00        |
| 35) Perylene-d12              | 23.683 | 264  | 12980    | 0.400 | ng    | # 0.00      |
| System Monitoring Compounds   |        |      |          |       |       |             |
| 4) 2-Fluorophenol             | 5.348  | 112  | 2964     | 0.147 | ng    | 0.00        |
| 5) Phenol-d6                  | 6.937  | 99   | 2079     | 0.085 | ng    | 0.00        |
| 8) Nitrobenzene-d5            | 8.929  | 82   | 6714     | 0.325 | ng    | 0.00        |
| 11) 2-Methylnaphthalene-d10   | 12.172 | 152  | 11602    | 0.318 | ng    | 0.00        |
| 14) 2,4,6-Tribromophenol      | 15.932 | 330  | 1849     | 0.313 | ng    | 0.00        |
| 15) 2-Fluorobiphenyl          | 13.051 | 172  | 20625    | 0.360 | ng    | 0.00        |
| 27) Fluoranthene-d10          | 19.220 | 212  | 25076    | 0.362 | ng    | 0.00        |
| 31) Terphenyl-d14             | 19.819 | 244  | 21101    | 0.594 | ng    | 0.00        |
| Target Compounds              |        |      |          |       |       |             |
| 34) Bis(2-ethylhexyl)phtha... | 21.295 | 149  | 3579     | 0.116 | ng    | Qvalue # 97 |
| -----                         |        |      |          |       |       |             |

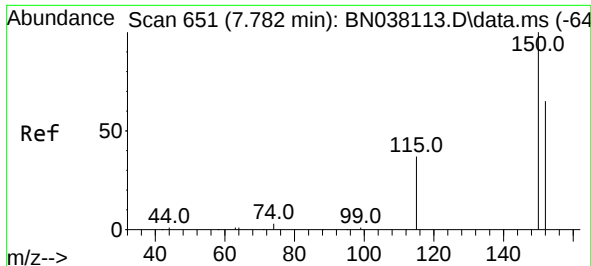
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN038140.D  
Acq On : 04 Nov 2025 17:10  
Operator : RC/JU  
Sample : Q3526-03  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP302-20251030

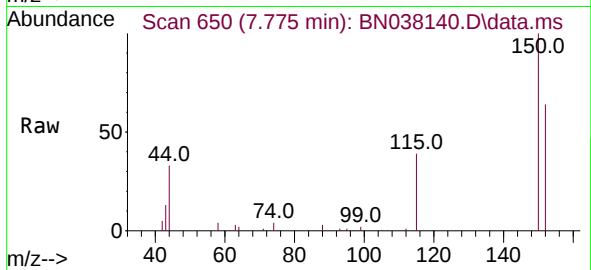
Quant Time: Nov 04 17:34:32 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN102825.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Oct 29 13:09:46 2025  
Response via : Initial Calibration



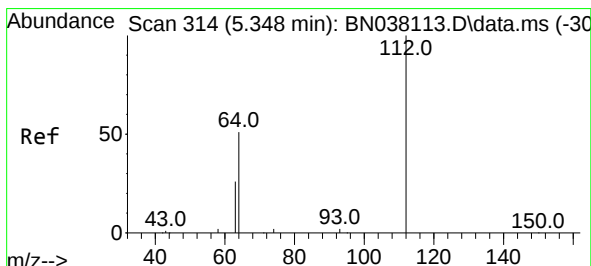
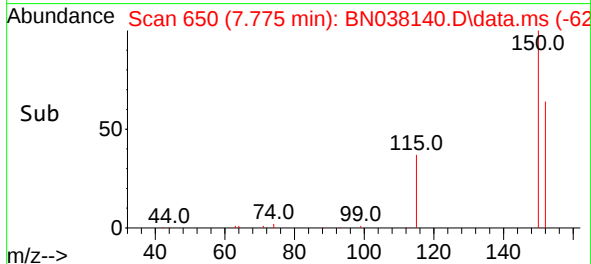
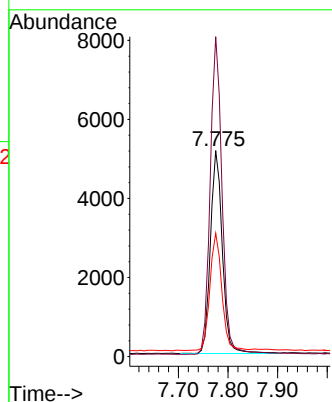


#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.775 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: BN038140.D  
Acq: 04 Nov 2025 17:10

Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP302-20251030

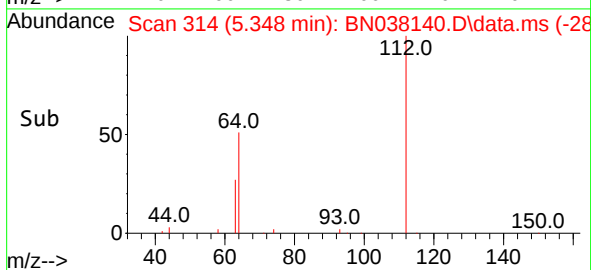
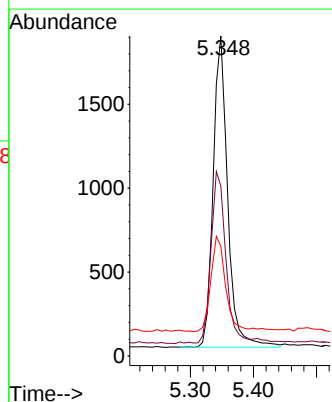
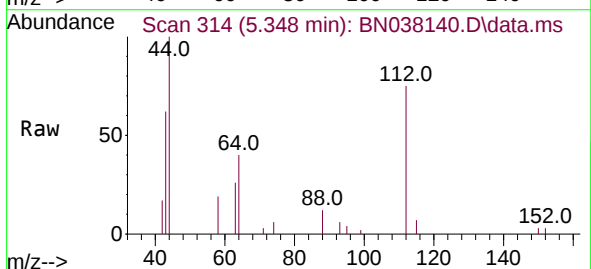


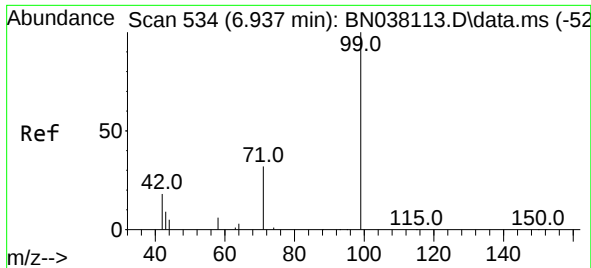
Tgt Ion:152 Resp: 8568  
Ion Ratio Lower Upper  
152 100  
150 155.3 122.3 183.5  
115 59.9 47.4 71.0



#4  
2-Fluorophenol  
Concen: 0.147 ng  
RT: 5.348 min Scan# 314  
Delta R.T. 0.000 min  
Lab File: BN038140.D  
Acq: 04 Nov 2025 17:10

Tgt Ion:112 Resp: 2964  
Ion Ratio Lower Upper  
112 100  
64 57.7 45.4 68.0  
63 30.7 23.2 34.8

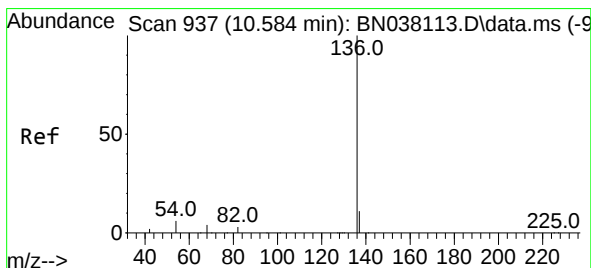
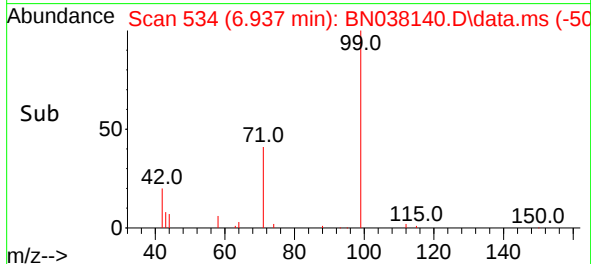
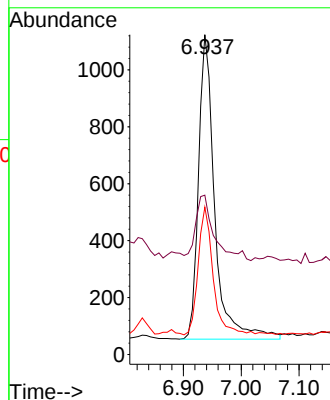
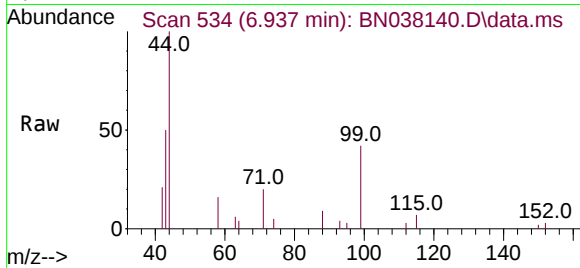




#5  
Phenol-d6  
Concen: 0.085 ng  
RT: 6.937 min Scan# 534  
Delta R.T. 0.000 min  
Lab File: BN038140.D  
Acq: 04 Nov 2025 17:10

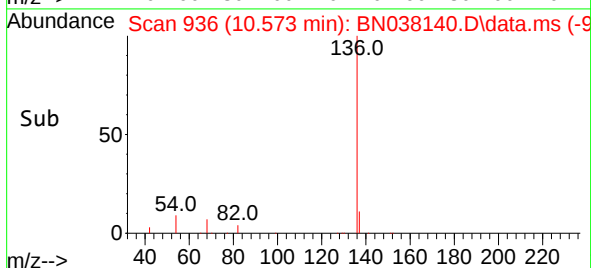
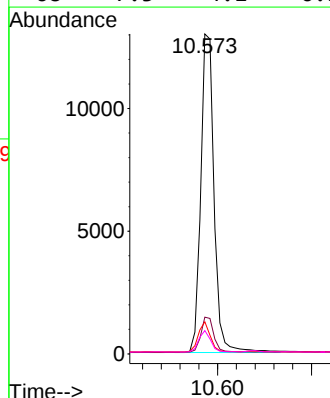
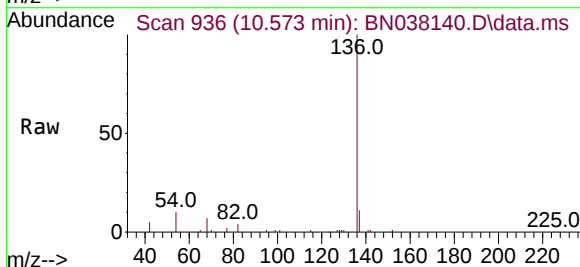
Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP302-20251030

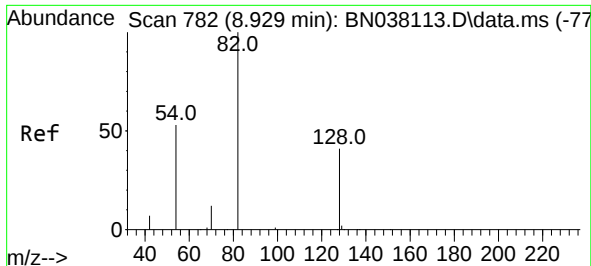
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 99    | Resp: | 2079  |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 24.7  | 16.6  | 24.8  |
| 71       | 39.5  | 25.4  | 38.2  |



#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.573 min Scan# 936  
Delta R.T. -0.000 min  
Lab File: BN038140.D  
Acq: 04 Nov 2025 17:10

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 25578 |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 11.5  | 9.0   | 13.4  |
| 54       | 10.0  | 5.2   | 7.8   |
| 68       | 7.3   | 4.1   | 6.1   |

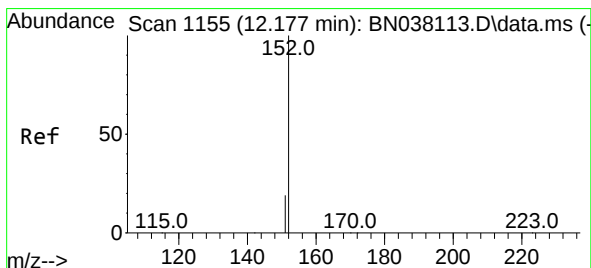
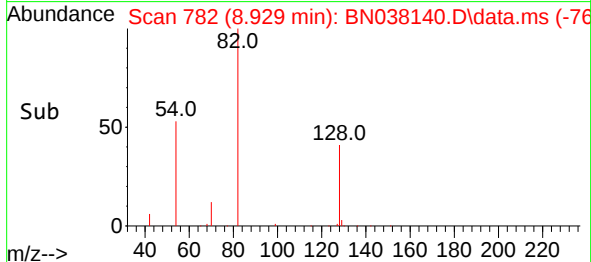
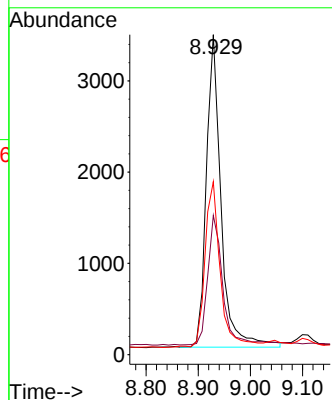
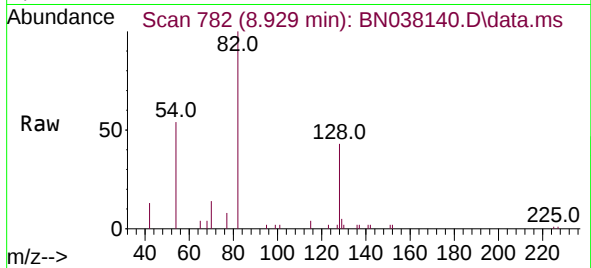




#8  
 Nitrobenzene-d5  
 Concen: 0.325 ng  
 RT: 8.929 min Scan# 782  
 Delta R.T. 0.000 min  
 Lab File: BN038140.D  
 Acq: 04 Nov 2025 17:10

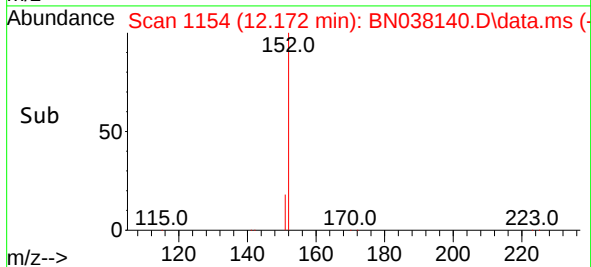
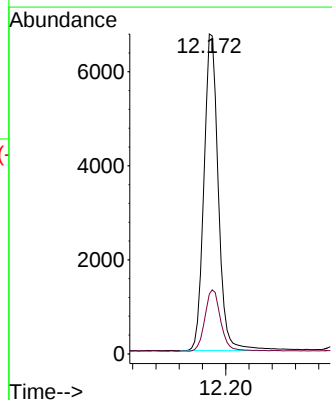
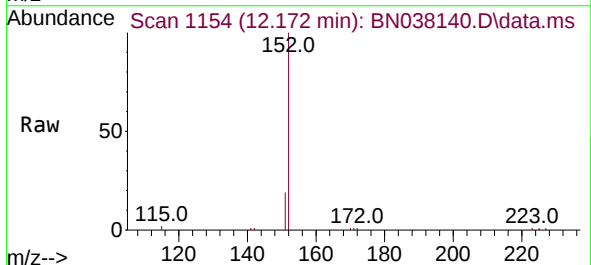
Instrument :  
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 ClientSampleId :  
 RW7-SP302-20251030

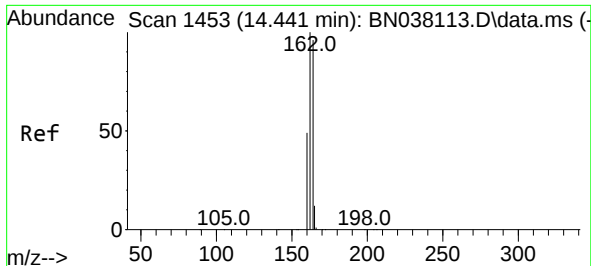
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 6714  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 43.5  | 34.1  | 51.1  |
| 54       | 54.0  | 43.5  | 65.3  |



#11  
 2-Methylnaphthalene-d10  
 Concen: 0.318 ng  
 RT: 12.172 min Scan# 1154  
 Delta R.T. -0.005 min  
 Lab File: BN038140.D  
 Acq: 04 Nov 2025 17:10

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 152   | Resp: | 11602 |
| Ion      | Ratio | Lower | Upper |
| 152      | 100   |       |       |
| 151      | 21.5  | 16.8  | 25.2  |

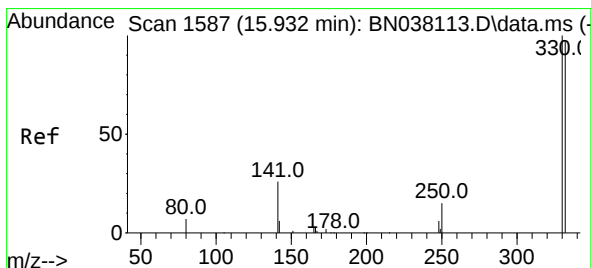
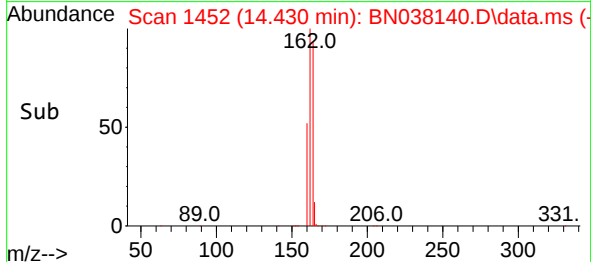
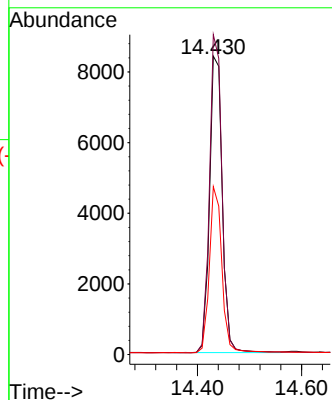
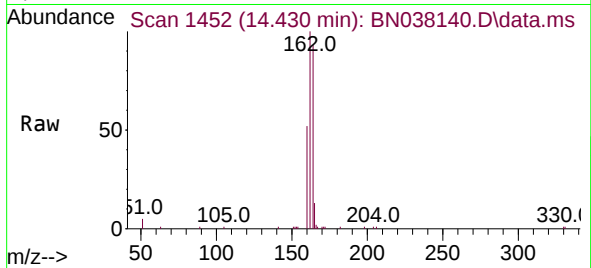




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.430 min Scan# 14  
Delta R.T. -0.000 min  
Lab File: BN038140.D  
Acq: 04 Nov 2025 17:10

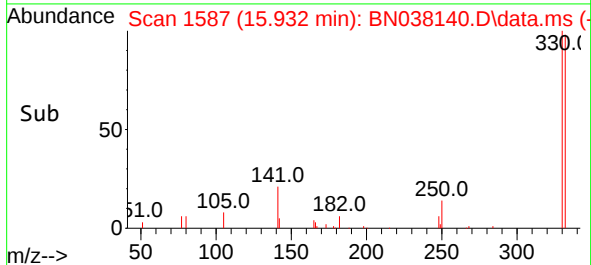
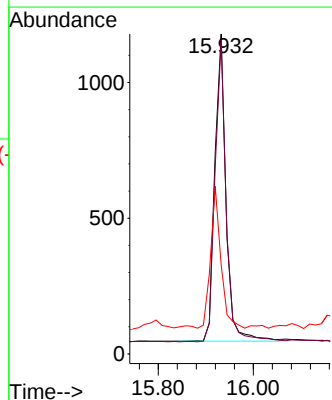
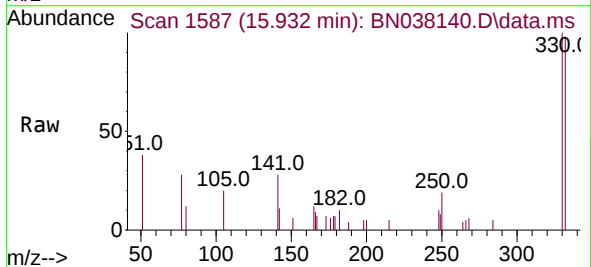
Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP302-20251030

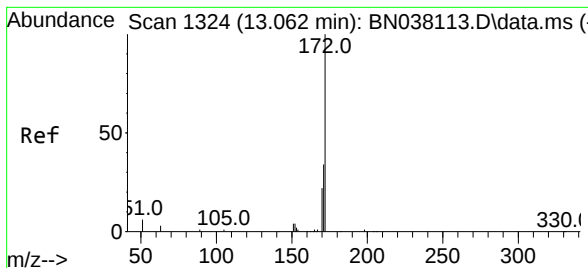
Tgt Ion:164 Resp: 14324  
Ion Ratio Lower Upper  
164 100  
162 107.2 83.0 124.4  
160 56.2 40.7 61.1



#14  
2,4,6-Tribromophenol  
Concen: 0.313 ng  
RT: 15.932 min Scan# 1587  
Delta R.T. 0.000 min  
Lab File: BN038140.D  
Acq: 04 Nov 2025 17:10

Tgt Ion:330 Resp: 1849  
Ion Ratio Lower Upper  
330 100  
332 97.9 76.6 114.8  
141 42.3 34.1 51.1

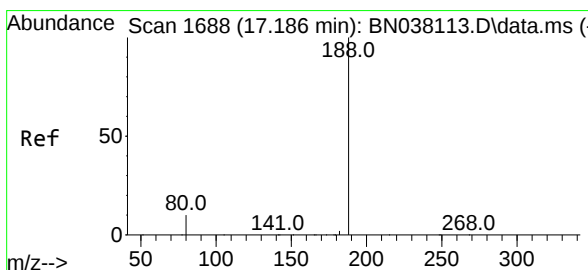
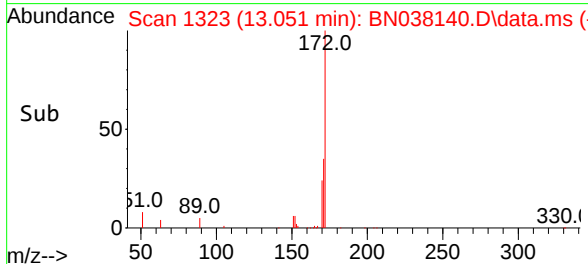
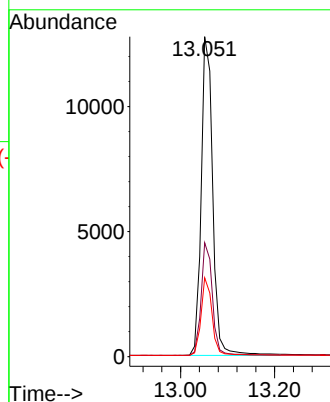
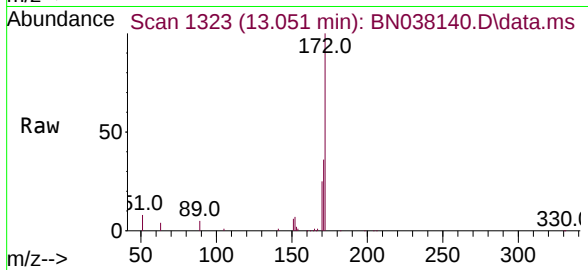




#15  
2-Fluorobiphenyl  
Concen: 0.360 ng  
RT: 13.051 min Scan# 1323  
Delta R.T. 0.000 min  
Lab File: BN038140.D  
Acq: 04 Nov 2025 17:10

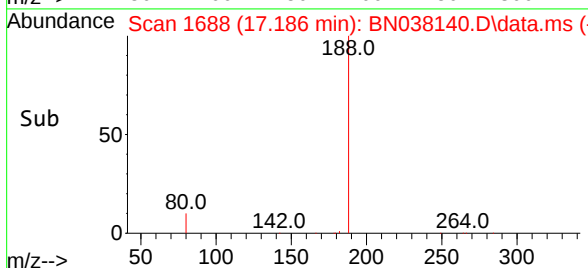
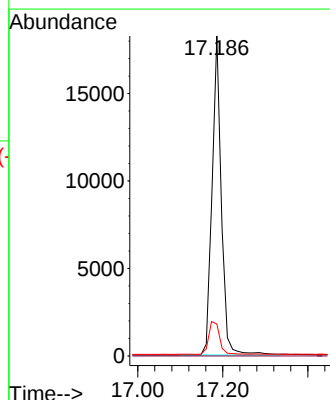
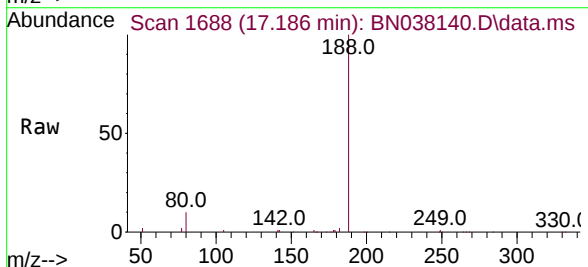
Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP302-20251030

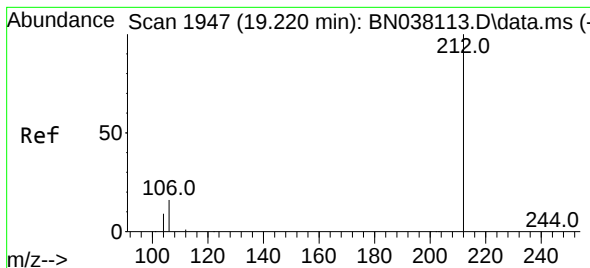
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 172   | Resp: | 20625 |
| Ion Ratio | Lower | Upper |       |
| 172       | 100   |       |       |
| 171       | 35.6  | 27.8  | 41.6  |
| 170       | 24.6  | 18.1  | 27.1  |



#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 17.186 min Scan# 1688  
Delta R.T. -0.000 min  
Lab File: BN038140.D  
Acq: 04 Nov 2025 17:10

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 188   | Resp: | 27505 |
| Ion Ratio | Lower | Upper |       |
| 188       | 100   |       |       |
| 94        | 0.0   | 0.0   | 0.0   |
| 80        | 10.0  | 8.6   | 13.0  |





#27

Fluoranthene-d10

Concen: 0.362 ng

RT: 19.220 min Scan# 1947

Delta R.T. -0.000 min

Lab File: BN038140.D

Acq: 04 Nov 2025 17:10

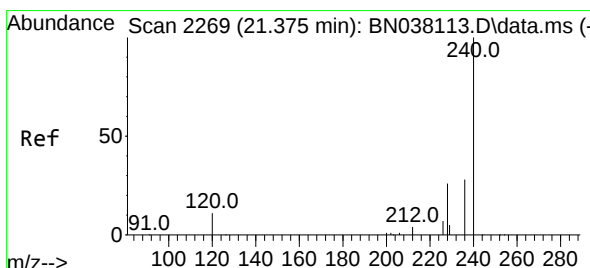
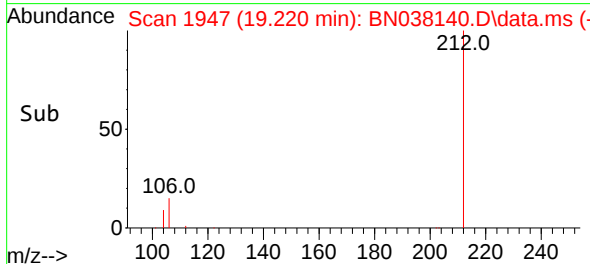
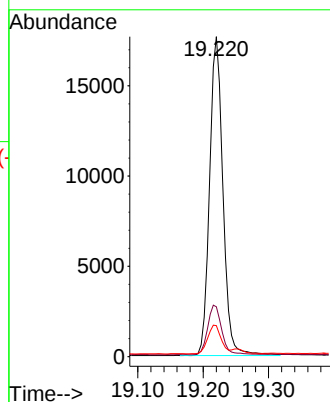
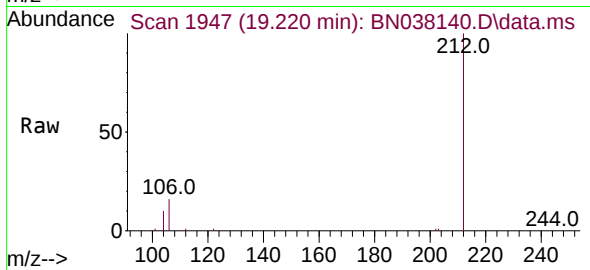
Instrument :

BNA\_N

ClientSampleId :

RW7-SP302-20251030

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:212 | Resp: | 25076     |
| Ion Ratio   | Lower | Upper     |
| 212         | 100   |           |
| 106         | 16.5  | 12.6 19.0 |
| 104         | 9.2   | 7.1 10.7  |



#29

Chrysene-d12

Concen: 0.400 ng

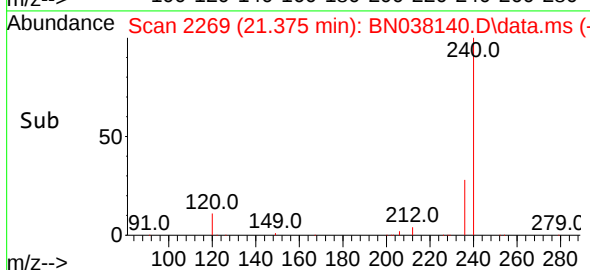
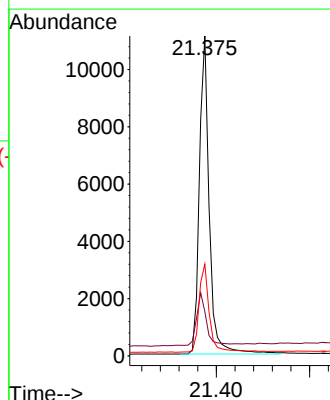
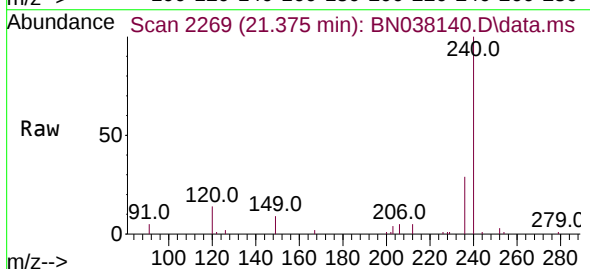
RT: 21.375 min Scan# 2269

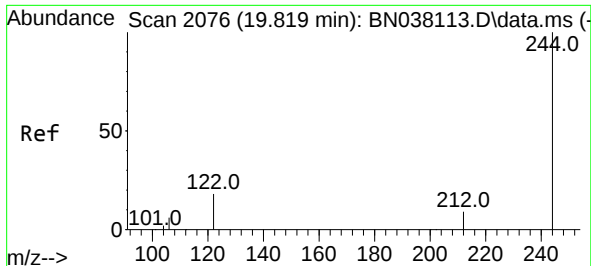
Delta R.T. -0.000 min

Lab File: BN038140.D

Acq: 04 Nov 2025 17:10

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:240 | Resp: | 16355     |
| Ion Ratio   | Lower | Upper     |
| 240         | 100   |           |
| 120         | 13.8  | 10.7 16.1 |
| 236         | 28.8  | 23.1 34.7 |

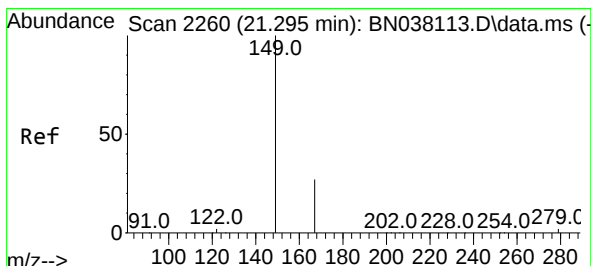
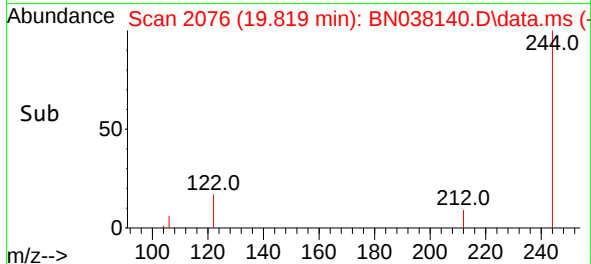
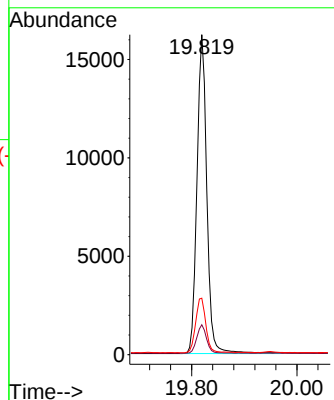
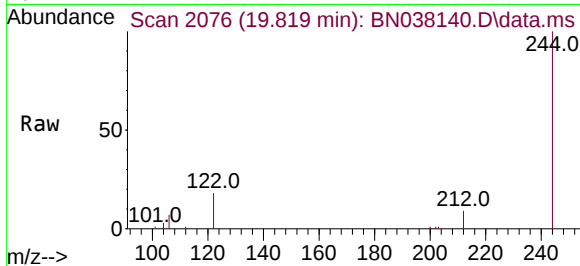




#31  
 Terphenyl-d14  
 Concen: 0.594 ng  
 RT: 19.819 min Scan# 2076  
 Delta R.T. 0.000 min  
 Lab File: BN038140.D  
 Acq: 04 Nov 2025 17:10

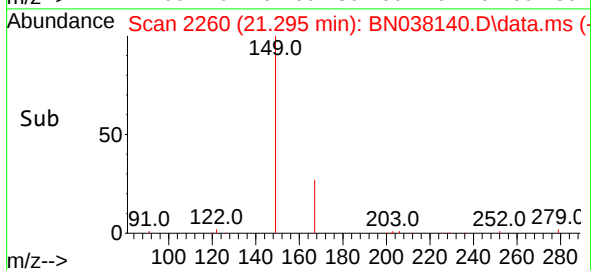
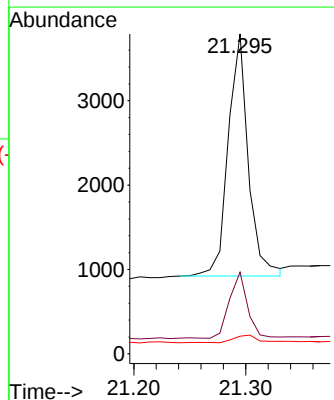
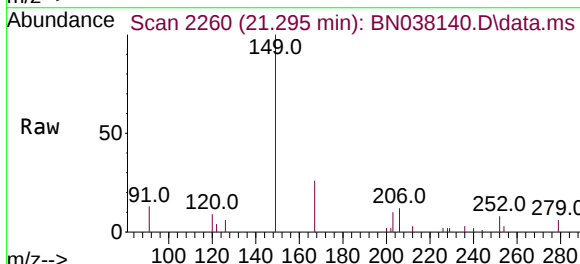
Instrument :  
 BNA\_N  
 ClientSampleId :  
 RW7-SP302-20251030

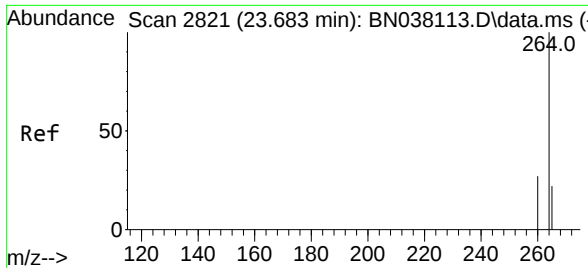
Tgt Ion:244 Resp: 21101  
 Ion Ratio Lower Upper  
 244 100  
 212 9.3 7.8 11.6  
 122 17.6 15.2 22.8



#34  
 Bis(2-ethylhexyl)phthalate  
 Concen: 0.116 ng  
 RT: 21.295 min Scan# 2260  
 Delta R.T. 0.000 min  
 Lab File: BN038140.D  
 Acq: 04 Nov 2025 17:10

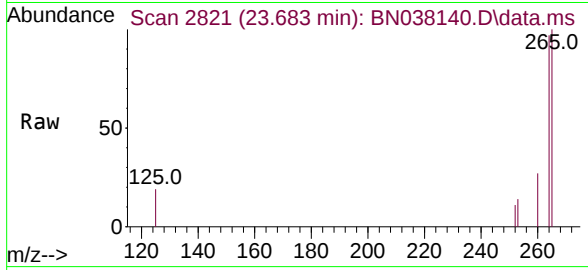
Tgt Ion:149 Resp: 3579  
 Ion Ratio Lower Upper  
 149 100  
 167 24.6 21.1 31.7  
 279 4.6 2.9 4.3#





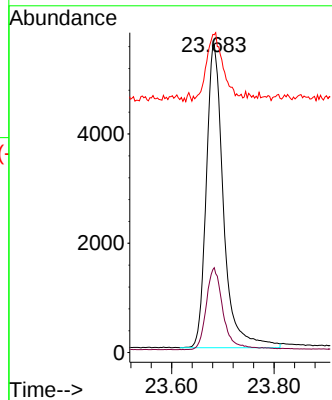
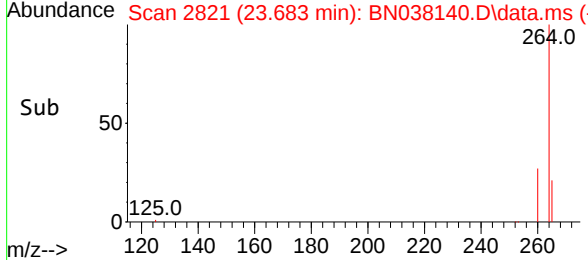
#35  
 Perylene-d12  
 Concen: 0.400 ng  
 RT: 23.683 min Scan# 2821  
 Delta R.T. 0.003 min  
 Lab File: BN038140.D  
 Acq: 04 Nov 2025 17:10

Instrument :  
 BNA\_N  
 ClientSampleId :  
 RW7-SP302-20251030



Tgt Ion:264 Resp: 12980

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 27.6  | 21.8  | 32.8  |
| 265 | 103.2 | 68.6  | 102.8 |



## Report of Analysis

|                    |                               |                     |                 |                |
|--------------------|-------------------------------|---------------------|-----------------|----------------|
| Client:            | Tetra Tech NUS, Inc.          |                     | Date Collected: | 10/30/25       |
| Project:           | NWIRP Bethpage 112G08005-WE13 |                     | Date Received:  | 11/03/25       |
| Client Sample ID:  | RW7-SP303-20251030            |                     | SDG No.:        | Q3526          |
| Lab Sample ID:     | Q3526-04                      |                     | Matrix:         | Water          |
| Analytical Method: | SW8270ESIM                    | Level: LOW          | % Solid:        | 0              |
| Sample Wt/Vol:     | 1000 mL                       | Final Vol: 1000 uL  | Test:           | SVOC-SIMGroup1 |
| Prep Method :      | 3510C                         | Prep Date: 11/03/25 |                 |                |

| CAS Number                | Parameter               | Conc.             | Qua. | DF | MDL      | LOD  | LOQ / CRQL | Units    | Date Ana.      | Prep BatchID |
|---------------------------|-------------------------|-------------------|------|----|----------|------|------------|----------|----------------|--------------|
| <b>TARGETS</b>            |                         |                   |      |    |          |      |            |          |                |              |
| 123-91-1                  | 1,4-Dioxane             | 0.20              | UQ   | 1  | 0.070    | 0.20 | 0.20       | ug/L     | 11/04/25 17:46 | PB170381     |
| <b>SURROGATES</b>         |                         |                   |      |    |          |      |            |          |                |              |
| 7297-45-2                 | 2-Methylnaphthalene-d10 | 0.27              |      |    | 30 - 150 |      | 67%        | SPK: 0.4 |                |              |
| 93951-69-0                | Fluoranthene-d10        | 0.32              |      |    | 30 - 150 |      | 81%        | SPK: 0.4 |                |              |
| 4165-60-0                 | Nitrobenzene-d5         | 0.27              |      |    | 55 - 111 |      | 68%        | SPK: 0.4 |                |              |
| 321-60-8                  | 2-Fluorobiphenyl        | 0.28              |      |    | 53 - 106 |      | 69%        | SPK: 0.4 |                |              |
| 1718-51-0                 | Terphenyl-d14           | 0.65              | *    |    | 58 - 132 |      | 163%       | SPK: 0.4 |                |              |
| <b>INTERNAL STANDARDS</b> |                         |                   |      |    |          |      |            |          |                |              |
|                           |                         | <b>Area Count</b> |      |    |          |      |            |          |                |              |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4  | 8540              |      |    |          |      |            |          |                |              |
| 1146-65-2                 | Naphthalene-d8          | 25200             |      |    |          |      |            |          |                |              |
| 15067-26-2                | Acenaphthene-d10        | 14300             |      |    |          |      |            |          |                |              |
| 1517-22-2                 | Phenanthrene-d10        | 26300             |      |    |          |      |            |          |                |              |
| 1719-03-5                 | Chrysene-d12            | 14800             |      |    |          |      |            |          |                |              |
| 1520-96-3                 | Perylene-d12            | 12400             |      |    |          |      |            |          |                |              |

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\BN110425\  
 Data File : BN038141.D  
 Acq On : 04 Nov 2025 17:46  
 Operator : RC/JU  
 Sample : Q3526-04  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 RW7-SP303-20251030

Quant Time: Nov 04 18:13:11 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN102825.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Oct 29 13:09:46 2025  
 Response via : Initial Calibration

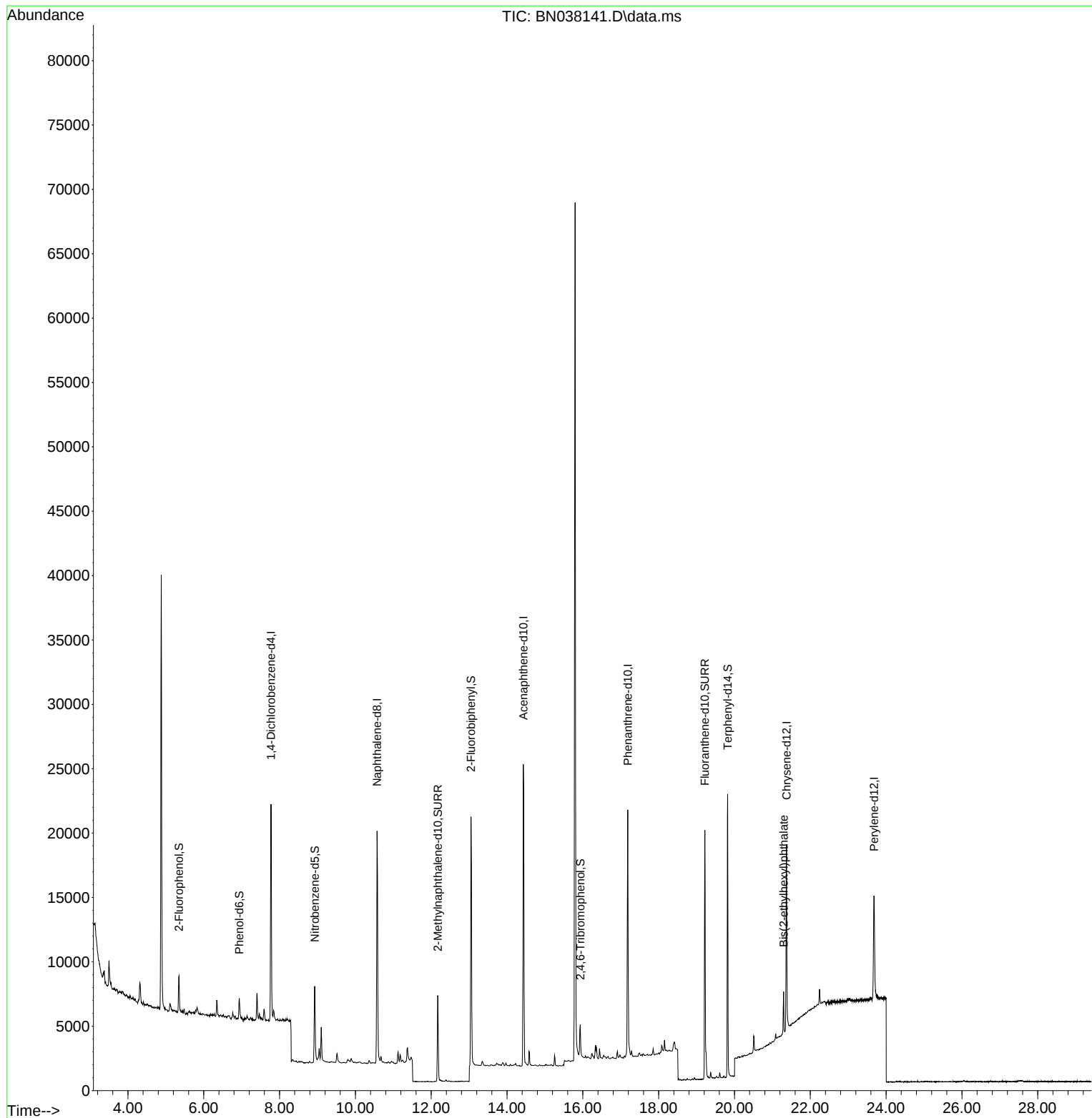
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min)  |
|-------------------------------|--------|------|----------|-------|-------|-----------|
| -----                         |        |      |          |       |       |           |
| Internal Standards            |        |      |          |       |       |           |
| 1) 1,4-Dichlorobenzene-d4     | 7.775  | 152  | 8535     | 0.400 | ng    | 0.00      |
| 7) Naphthalene-d8             | 10.573 | 136  | 25212    | 0.400 | ng    | # 0.00    |
| 13) Acenaphthene-d10          | 14.430 | 164  | 14257    | 0.400 | ng    | 0.00      |
| 19) Phenanthrene-d10          | 17.186 | 188  | 26274    | 0.400 | ng    | 0.00      |
| 29) Chrysene-d12              | 21.375 | 240  | 14750    | 0.400 | ng    | 0.00      |
| 35) Perylene-d12              | 23.680 | 264  | 12357    | 0.400 | ng    | # 0.00    |
| System Monitoring Compounds   |        |      |          |       |       |           |
| 4) 2-Fluorophenol             | 5.348  | 112  | 2450     | 0.122 | ng    | 0.00      |
| 5) Phenol-d6                  | 6.937  | 99   | 1641     | 0.067 | ng    | 0.00      |
| 8) Nitrobenzene-d5            | 8.929  | 82   | 5492     | 0.270 | ng    | 0.00      |
| 11) 2-Methylnaphthalene-d10   | 12.172 | 152  | 9669     | 0.269 | ng    | 0.00      |
| 14) 2,4,6-Tribromophenol      | 15.932 | 330  | 1587     | 0.270 | ng    | 0.00      |
| 15) 2-Fluorobiphenyl          | 13.051 | 172  | 15752    | 0.276 | ng    | 0.00      |
| 27) Fluoranthene-d10          | 19.220 | 212  | 21496    | 0.324 | ng    | 0.00      |
| 31) Terphenyl-d14             | 19.819 | 244  | 20961    | 0.654 | ng    | 0.00      |
| Target Compounds              |        |      |          |       |       |           |
| 34) Bis(2-ethylhexyl)phtha... | 21.295 | 149  | 3107     | 0.112 | ng    | Qvalue 98 |
| -----                         |        |      |          |       |       |           |

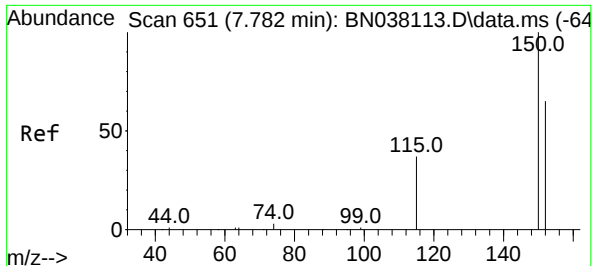
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN110425\  
Data File : BN038141.D  
Acq On : 04 Nov 2025 17:46  
Operator : RC/JU  
Sample : Q3526-04  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP303-20251030

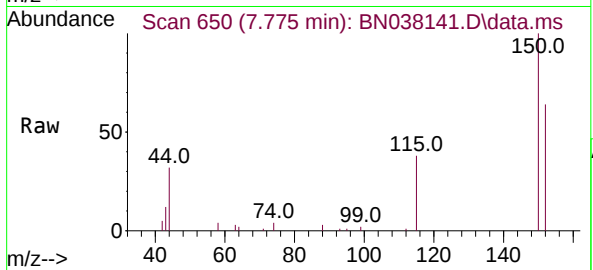
Quant Time: Nov 04 18:13:11 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN102825.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Oct 29 13:09:46 2025  
Response via : Initial Calibration



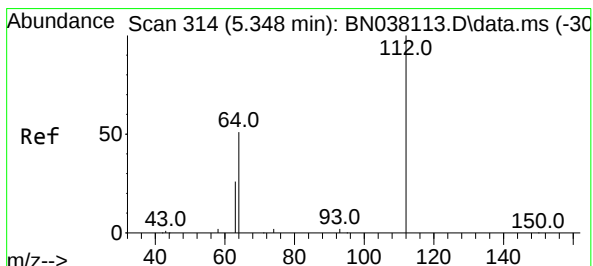
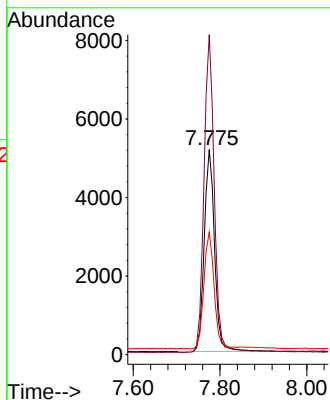
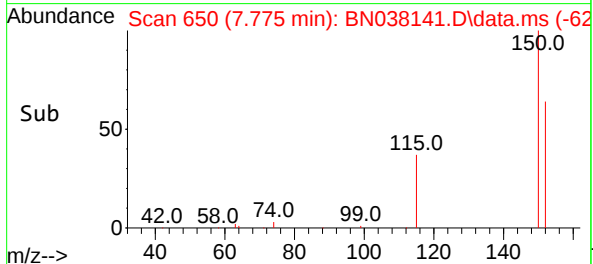


#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.775 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: BN038141.D  
Acq: 04 Nov 2025 17:46

Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP303-20251030

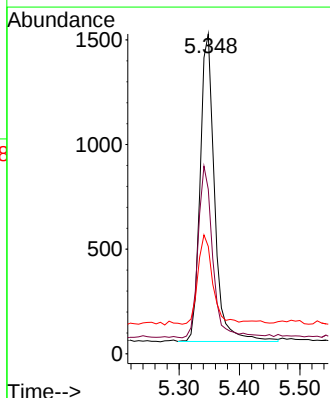
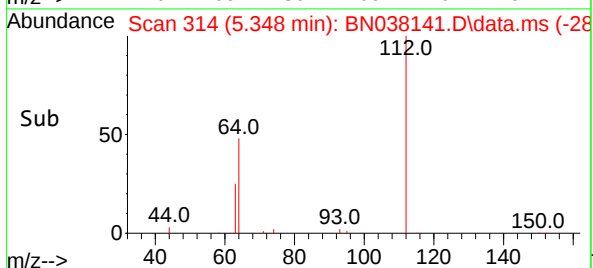
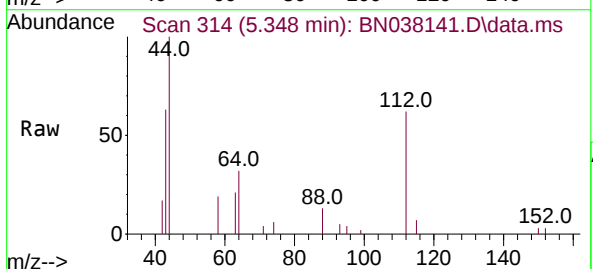


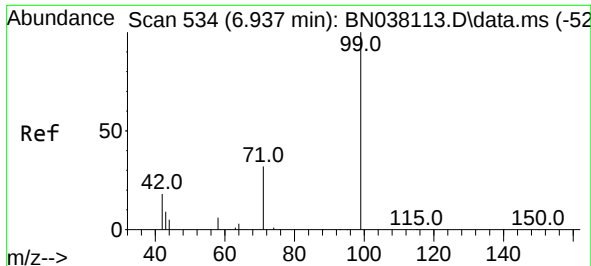
Tgt Ion:152 Resp: 8535  
Ion Ratio Lower Upper  
152 100  
150 156.1 122.3 183.5  
115 59.7 47.4 71.0



#4  
2-Fluorophenol  
Concen: 0.122 ng  
RT: 5.348 min Scan# 314  
Delta R.T. 0.000 min  
Lab File: BN038141.D  
Acq: 04 Nov 2025 17:46

Tgt Ion:112 Resp: 2450  
Ion Ratio Lower Upper  
112 100  
64 56.8 45.4 68.0  
63 29.6 23.2 34.8

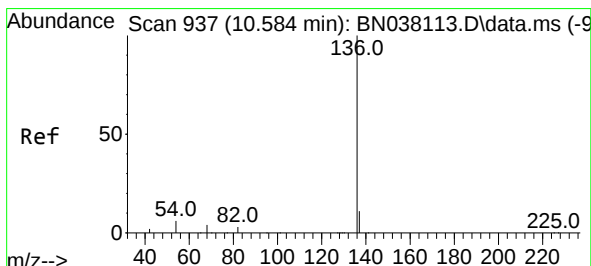
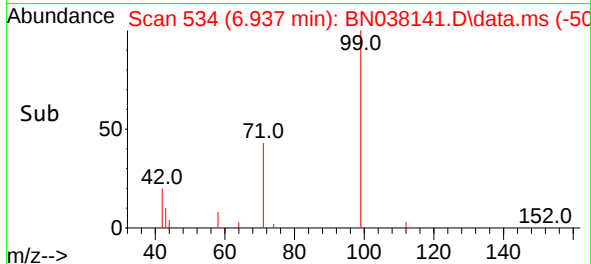
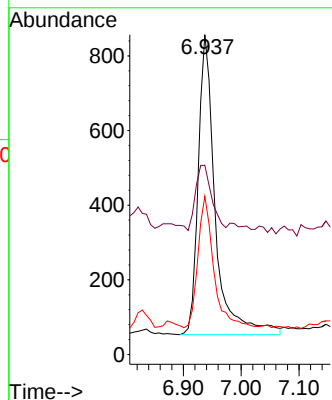
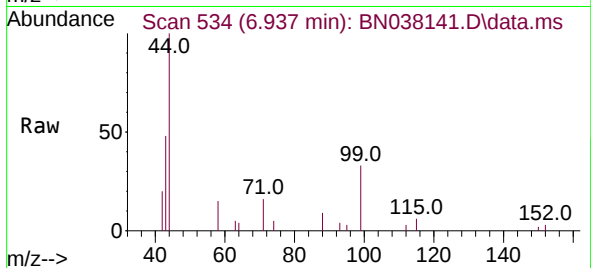




#5  
Phenol-d6  
Concen: 0.067 ng  
RT: 6.937 min Scan# 534  
Delta R.T. 0.000 min  
Lab File: BN038141.D  
Acq: 04 Nov 2025 17:46

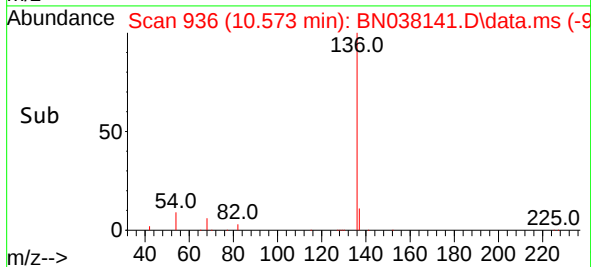
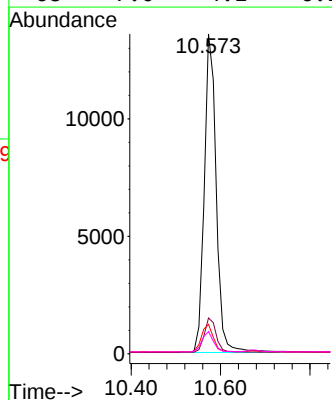
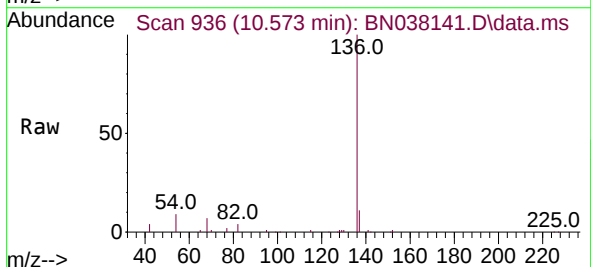
Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP303-20251030

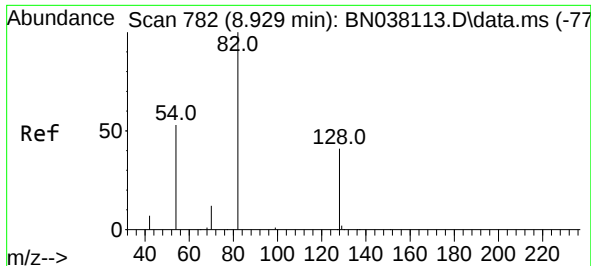
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 99    | Resp: | 1641  |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 20.5  | 16.6  | 24.8  |
| 71       | 41.1  | 25.4  | 38.2  |



#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.573 min Scan# 936  
Delta R.T. 0.000 min  
Lab File: BN038141.D  
Acq: 04 Nov 2025 17:46

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 25212 |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 11.2  | 9.0   | 13.4  |
| 54       | 9.2   | 5.2   | 7.8   |
| 68       | 7.0   | 4.1   | 6.1   |

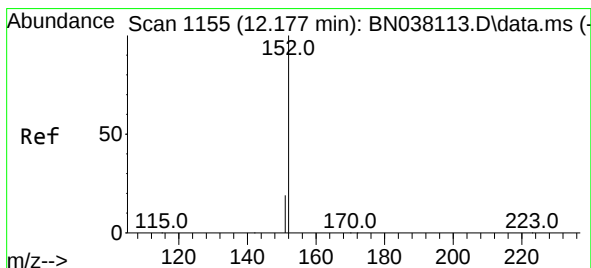
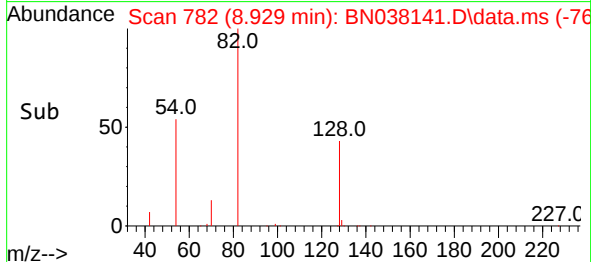
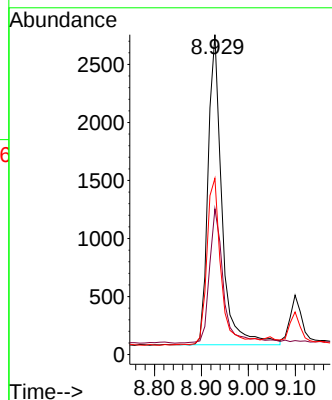
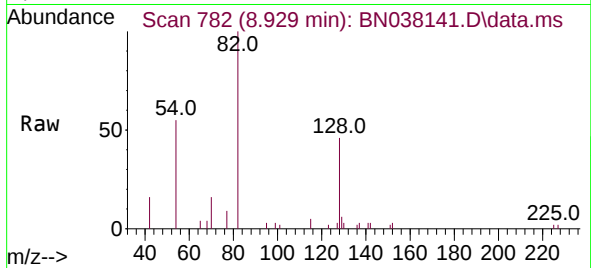




#8  
 Nitrobenzene-d5  
 Concen: 0.270 ng  
 RT: 8.929 min Scan# 782  
 Delta R.T. 0.000 min  
 Lab File: BN038141.D  
 Acq: 04 Nov 2025 17:46

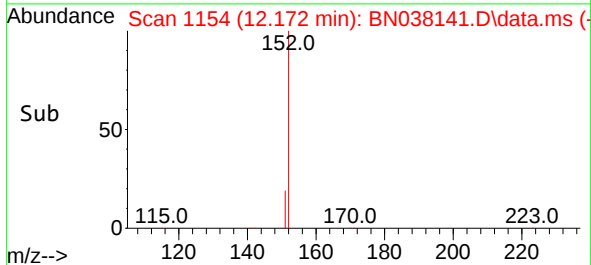
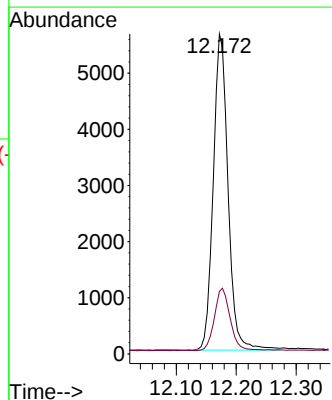
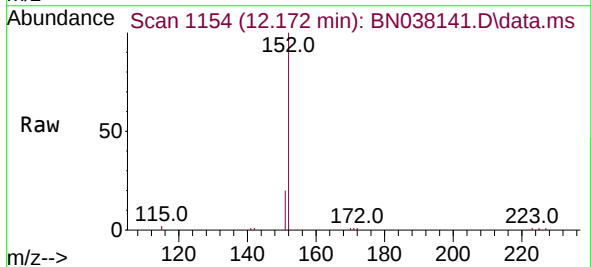
Instrument :  
 BNA\_N  
 ClientSampleId :  
 RW7-SP303-20251030

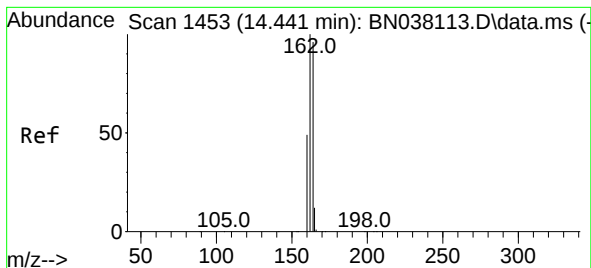
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 5492  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 45.6  | 34.1  | 51.1  |
| 54       | 55.1  | 43.5  | 65.3  |



#11  
 2-Methylnaphthalene-d10  
 Concen: 0.269 ng  
 RT: 12.172 min Scan# 1154  
 Delta R.T. -0.005 min  
 Lab File: BN038141.D  
 Acq: 04 Nov 2025 17:46

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 152   | Resp: | 9669  |
| Ion      | Ratio | Lower | Upper |
| 152      | 100   |       |       |
| 151      | 20.9  | 16.8  | 25.2  |





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.430 min Scan# 14

Delta R.T. 0.000 min

Lab File: BN038141.D

Acq: 04 Nov 2025 17:46

Instrument :

BNA\_N

ClientSampleId :

RW7-SP303-20251030

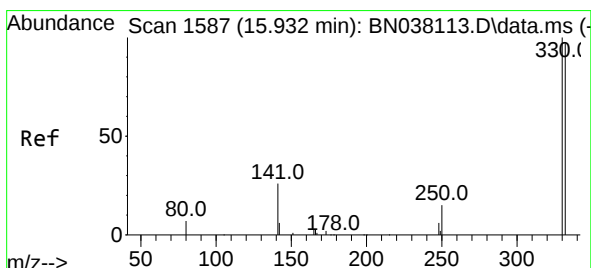
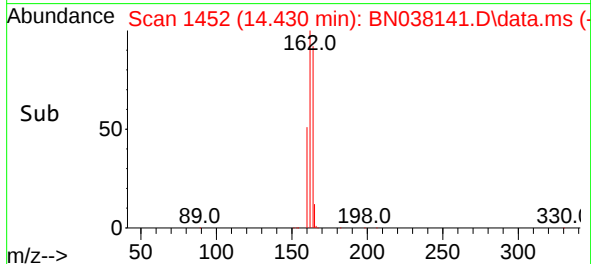
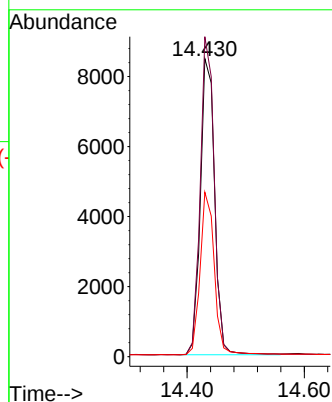
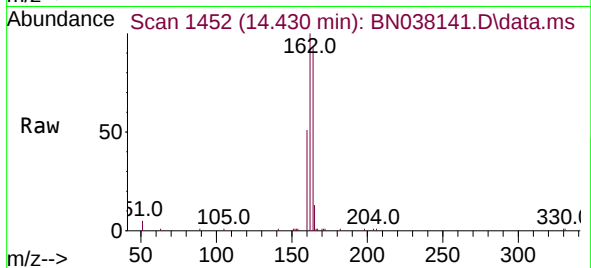
Tgt Ion:164 Resp: 14257

Ion Ratio Lower Upper

164 100

162 107.4 83.0 124.4

160 55.2 40.7 61.1



#14

2,4,6-Tribromophenol

Concen: 0.270 ng

RT: 15.932 min Scan# 1587

Delta R.T. 0.000 min

Lab File: BN038141.D

Acq: 04 Nov 2025 17:46

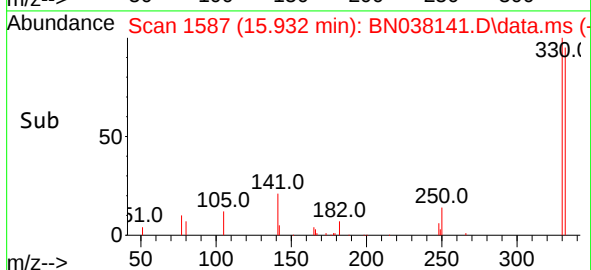
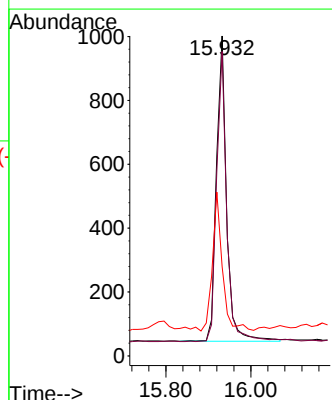
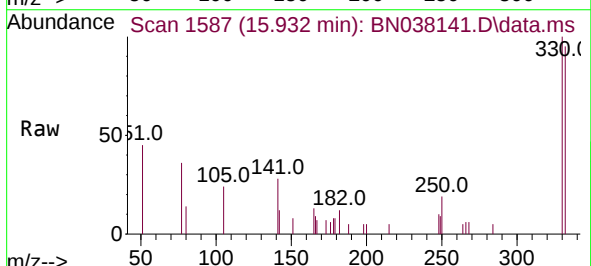
Tgt Ion:330 Resp: 1587

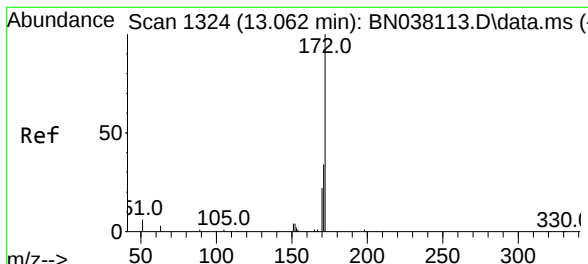
Ion Ratio Lower Upper

330 100

332 94.8 76.6 114.8

141 44.3 34.1 51.1

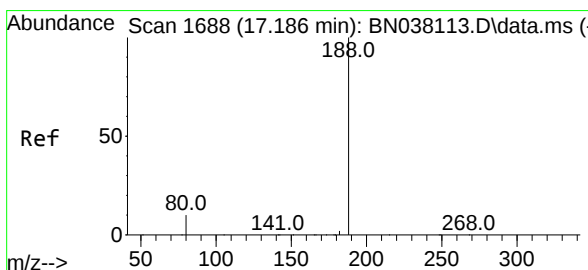
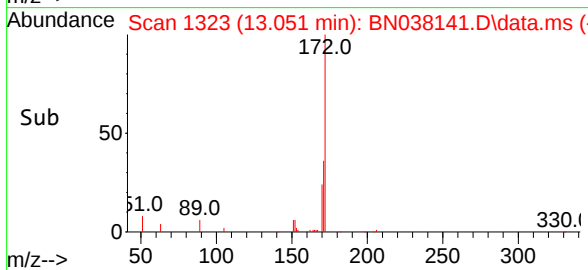
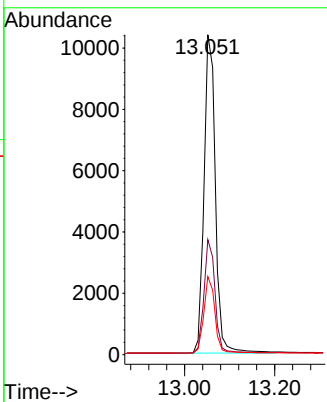
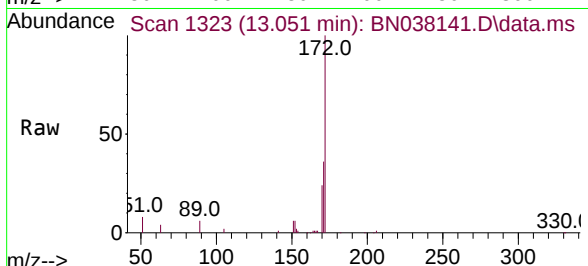




#15  
2-Fluorobiphenyl  
Concen: 0.276 ng  
RT: 13.051 min Scan# 1323  
Delta R.T. 0.000 min  
Lab File: BN038141.D  
Acq: 04 Nov 2025 17:46

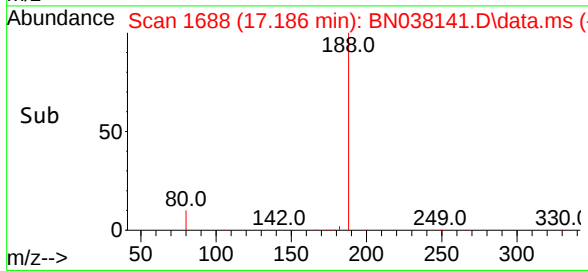
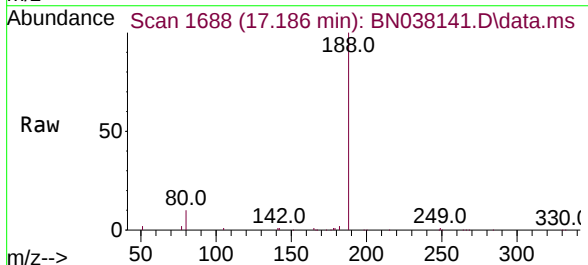
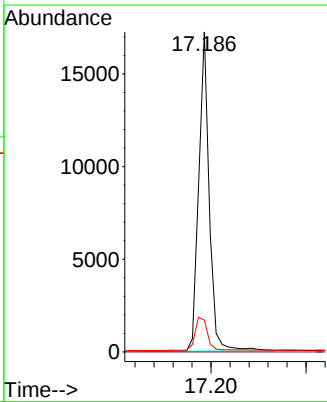
Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP303-20251030

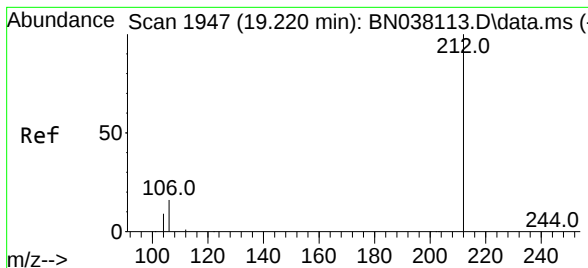
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 172   | Resp: | 15752 |
| Ion Ratio | Lower | Upper |       |
| 172       | 100   |       |       |
| 171       | 36.0  | 27.8  | 41.6  |
| 170       | 24.4  | 18.1  | 27.1  |



#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 17.186 min Scan# 1688  
Delta R.T. 0.000 min  
Lab File: BN038141.D  
Acq: 04 Nov 2025 17:46

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 188   | Resp: | 26274 |
| Ion Ratio | Lower | Upper |       |
| 188       | 100   |       |       |
| 94        | 0.0   | 0.0   | 0.0   |
| 80        | 10.0  | 8.6   | 13.0  |





#27

Fluoranthene-d10

Concen: 0.324 ng

RT: 19.220 min Scan# 1947

Delta R.T. 0.000 min

Lab File: BN038141.D

Acq: 04 Nov 2025 17:46

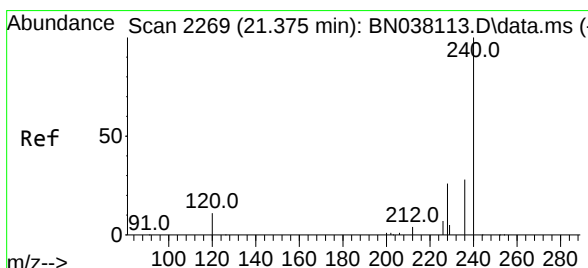
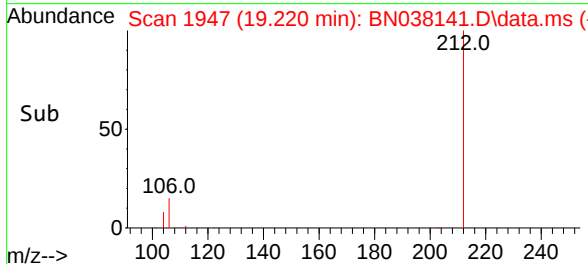
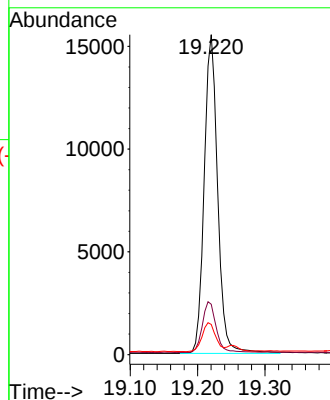
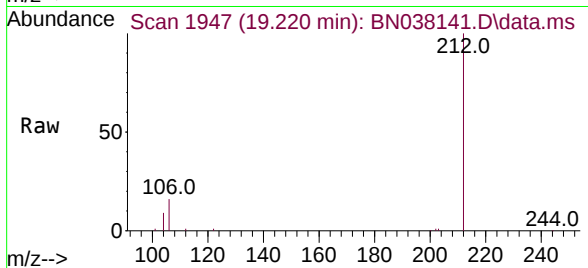
Instrument :

BNA\_N

ClientSampleId :

RW7-SP303-20251030

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:212 | Resp: | 21496     |
| Ion Ratio   | Lower | Upper     |
| 212         | 100   |           |
| 106         | 16.5  | 12.6 19.0 |
| 104         | 9.1   | 7.1 10.7  |



#29

Chrysene-d12

Concen: 0.400 ng

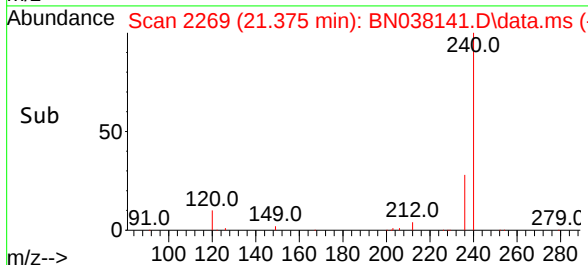
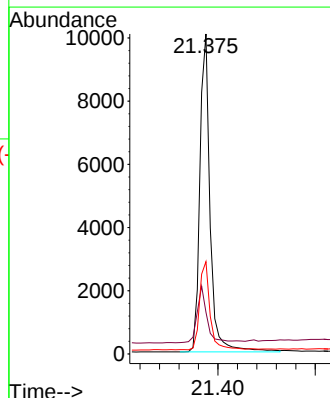
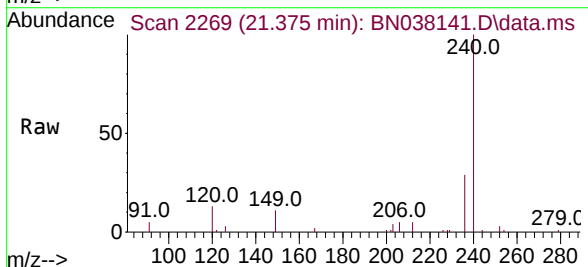
RT: 21.375 min Scan# 2269

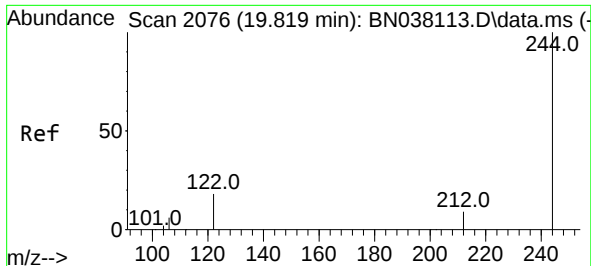
Delta R.T. 0.000 min

Lab File: BN038141.D

Acq: 04 Nov 2025 17:46

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:240 | Resp: | 14750     |
| Ion Ratio   | Lower | Upper     |
| 240         | 100   |           |
| 120         | 13.0  | 10.7 16.1 |
| 236         | 28.8  | 23.1 34.7 |

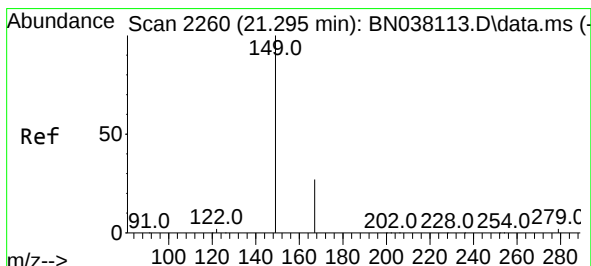
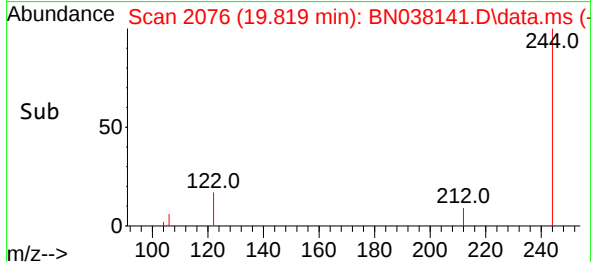
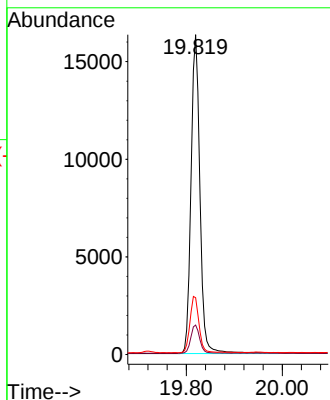
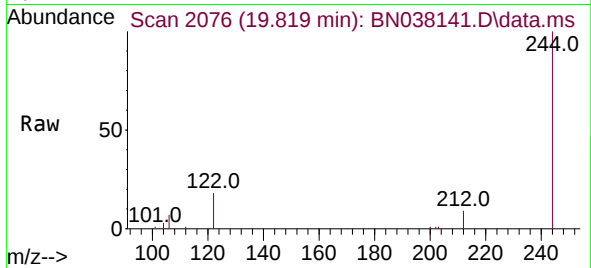




#31  
 Terphenyl-d14  
 Concen: 0.654 ng  
 RT: 19.819 min Scan# 2076  
 Delta R.T. 0.000 min  
 Lab File: BN038141.D  
 Acq: 04 Nov 2025 17:46

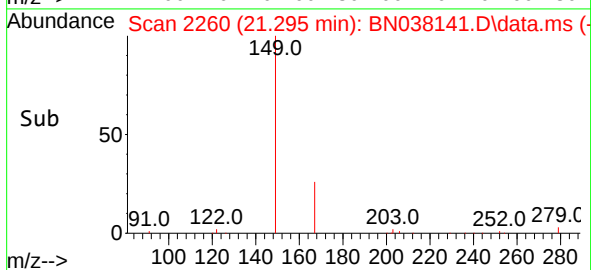
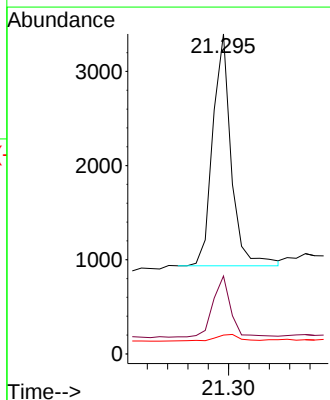
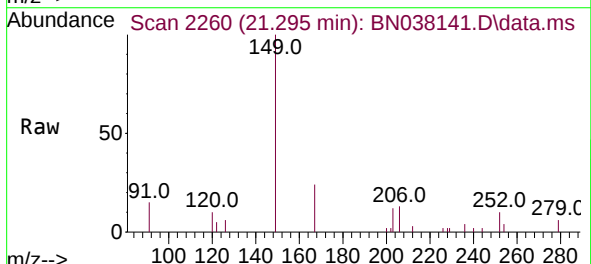
Instrument :  
 BNA\_N  
 ClientSampleId :  
 RW7-SP303-20251030

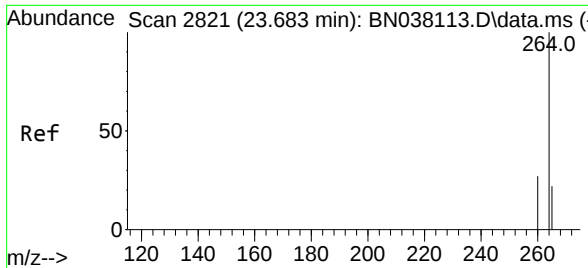
Tgt Ion:244 Resp: 20961  
 Ion Ratio Lower Upper  
 244 100  
 212 9.2 7.8 11.6  
 122 17.8 15.2 22.8



#34  
 Bis(2-ethylhexyl)phthalate  
 Concen: 0.112 ng  
 RT: 21.295 min Scan# 2260  
 Delta R.T. 0.000 min  
 Lab File: BN038141.D  
 Acq: 04 Nov 2025 17:46

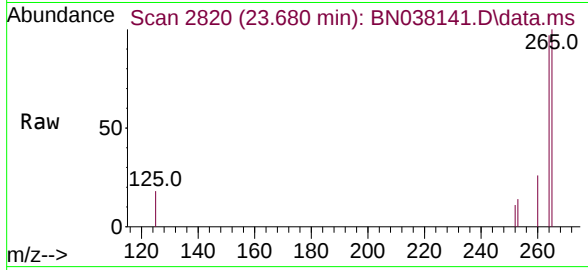
Tgt Ion:149 Resp: 3107  
 Ion Ratio Lower Upper  
 149 100  
 167 25.4 21.1 31.7  
 279 3.9 2.9 4.3





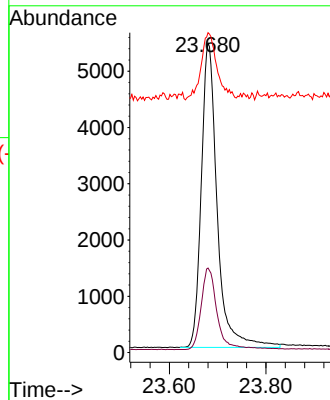
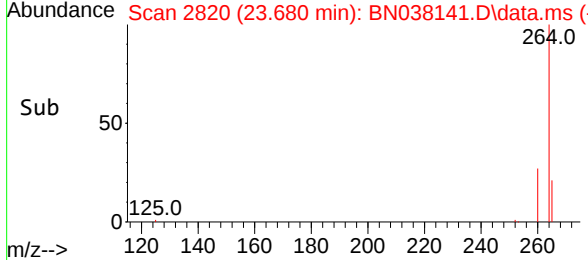
#35  
 Perylene-d12  
 Concen: 0.400 ng  
 RT: 23.680 min Scan# 2821  
 Delta R.T. 0.000 min  
 Lab File: BN038141.D  
 Acq: 04 Nov 2025 17:46

Instrument :  
 BNA\_N  
 ClientSampleId :  
 RW7-SP303-20251030



Tgt Ion:264 Resp: 12357

| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 264 | 100   |       |        |
| 260 | 27.3  | 21.8  | 32.8   |
| 265 | 103.3 | 68.6  | 102.8# |





# CALIBRATION SUMMARY

Method Path : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\  
 Method File : 8270-SIM-BN102825.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 Last Update : Wed Oct 29 13:09:46 2025  
 Response Via : Initial Calibration

## Calibration Files

0.1 =BN038111.D 0.2 =BN038112.D 0.4 =BN038113.D 0.8 =BN038114.D 1.6 =BN038115.D 3.2 =BN038116.D 5 =BN038117.D

| Compound                   | 0.1            | 0.2   | 0.4   | 0.8   | 1.6   | 3.2   | 5     | Avg   | %RSD  |
|----------------------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|
| -----                      |                |       |       |       |       |       |       |       |       |
| 1) I 1,4-Dichlorobenzen... | -----ISTD----- |       |       |       |       |       |       |       |       |
| 2) 1,4-Dioxane             | 0.446          | 0.424 | 0.405 | 0.416 | 0.400 | 0.389 | 0.413 |       | 4.87  |
| 3) n-Nitrosodimet...       | 0.528          | 0.537 | 0.527 | 0.547 | 0.534 | 0.518 | 0.532 |       | 1.85  |
| 4) S 2-Fluorophenol        | 1.066          | 0.973 | 0.954 | 0.907 | 0.918 | 0.895 | 0.882 | 0.942 | 6.73  |
| 5) S Phenol-d6             | 1.266          | 1.134 | 1.134 | 1.097 | 1.131 | 1.135 | 1.137 | 1.148 | 4.71  |
| 6) bis(2-Chloroet...       | 1.164          | 1.140 | 1.126 | 1.122 | 1.148 | 1.114 | 1.079 | 1.128 | 2.42  |
|                            |                |       |       |       |       |       |       |       |       |
| 7) I Naphthalene-d8        | -----ISTD----- |       |       |       |       |       |       |       |       |
| 8) S Nitrobenzene-d5       | 0.403          | 0.312 | 0.313 | 0.301 | 0.316 | 0.307 | 0.307 | 0.323 | 11.11 |
| 9) Naphthalene             | 1.139          | 1.097 | 1.081 | 1.080 | 1.125 | 1.107 | 1.084 | 1.102 | 2.08  |
| 10) Hexachlorobuta...      | 0.198          | 0.187 | 0.187 | 0.182 | 0.188 | 0.183 | 0.177 | 0.186 | 3.49  |
| 11) SURR2-Methylnaphth...  | 0.581          | 0.569 | 0.551 | 0.549 | 0.586 | 0.584 | 0.579 | 0.571 | 2.69  |
| 12) 2-Methylnaphth...      | 0.765          | 0.712 | 0.709 | 0.713 | 0.757 | 0.749 | 0.738 | 0.735 | 3.22  |
|                            |                |       |       |       |       |       |       |       |       |
| 13) I Acenaphthene-d10     | -----ISTD----- |       |       |       |       |       |       |       |       |
| 14) S 2,4,6-Tribromo...    | 0.156          | 0.151 | 0.149 | 0.152 | 0.171 | 0.182 | 0.194 | 0.165 | 10.70 |
| 15) S 2-Fluorobiphenyl     | 1.794          | 1.649 | 1.577 | 1.570 | 1.615 | 1.514 | 1.495 | 1.602 | 6.24  |
| 16) Acenaphthylene         | 1.768          | 1.728 | 1.711 | 1.764 | 1.891 | 1.912 | 1.908 | 1.811 | 4.88  |
| 17) Acenaphthene           | 1.260          | 1.242 | 1.211 | 1.234 | 1.318 | 1.310 | 1.297 | 1.267 | 3.25  |
| 18) Fluorene               | 1.549          | 1.618 | 1.596 | 1.635 | 1.768 | 1.731 | 1.729 | 1.661 | 4.93  |
|                            |                |       |       |       |       |       |       |       |       |
| 19) I Phenanthrene-d10     | -----ISTD----- |       |       |       |       |       |       |       |       |
| 20) 4,6-Dinitro-2-...      | 0.041          | 0.045 | 0.051 | 0.064 | 0.073 |       | 0.055 |       | 24.55 |
| 21) 4-Bromophenyl-...      | 0.260          | 0.251 | 0.250 | 0.256 | 0.274 | 0.271 | 0.275 | 0.262 | 4.06  |
| 22) Hexachlorobenzene      | 0.304          | 0.292 | 0.298 | 0.293 | 0.306 | 0.297 | 0.298 | 0.298 | 1.76  |
| 23) Atrazine               | 0.190          | 0.176 | 0.176 | 0.179 | 0.203 | 0.209 | 0.211 | 0.192 | 8.19  |
| 24) Pentachlorophenol      | 0.112          | 0.108 | 0.113 | 0.132 | 0.146 | 0.159 | 0.128 |       | 16.16 |
| 25) Phenanthrene           | 1.281          | 1.231 | 1.224 | 1.236 | 1.327 | 1.293 | 1.298 | 1.270 | 3.12  |
| 26) Anthracene             | 1.076          | 1.029 | 1.047 | 1.057 | 1.182 | 1.183 | 1.202 | 1.111 | 6.72  |
| 27) SURRFluoranthene-d10   | 1.040          | 0.969 | 0.957 | 0.981 | 1.050 | 1.055 | 1.009 | 1.009 | 4.01  |
| 28) Fluoranthene           | 1.448          | 1.349 | 1.345 | 1.394 | 1.492 | 1.491 | 1.414 | 1.419 | 4.30  |
|                            |                |       |       |       |       |       |       |       |       |
| 29) I Chrysene-d12         | -----ISTD----- |       |       |       |       |       |       |       |       |
| 30) Pyrene                 | 1.834          | 1.853 | 1.842 | 1.664 | 1.835 | 1.766 | 1.846 | 1.806 | 3.82  |
| 31) S Terphenyl-d14        | 0.878          | 0.881 | 0.872 | 0.807 | 0.892 | 0.862 | 0.891 | 0.869 | 3.37  |
| 32) Benzo(a)anthra...      | 1.491          | 1.379 | 1.358 | 1.363 | 1.469 | 1.474 | 1.456 | 1.427 | 4.06  |
| 33) Chrysene               | 1.623          | 1.586 | 1.543 | 1.523 | 1.558 | 1.518 | 1.490 | 1.549 | 2.91  |
| 34) Bis(2-ethylhex...      | 0.910          | 0.722 | 0.700 | 0.721 | 0.754 | 0.703 | 0.752 |       | 10.60 |
|                            |                |       |       |       |       |       |       |       |       |
| 35) I Perylene-d12         | -----ISTD----- |       |       |       |       |       |       |       |       |

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

Method File : 8270-SIM-BN102825.M

|       |                   |       |       |       |       |       |       |       |       |      |
|-------|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| 36)   | Indeno(1,2,3-c... | 1.521 | 1.512 | 1.604 | 1.620 | 1.730 | 1.739 | 1.778 | 1.643 | 6.53 |
| 37)   | Benzo(b)fluora... | 1.603 | 1.543 | 1.630 | 1.729 | 1.806 | 1.839 | 1.822 | 1.710 | 6.94 |
| 38)   | Benzo(k)fluora... | 1.652 | 1.590 | 1.619 | 1.669 | 1.831 | 1.835 | 1.855 | 1.721 | 6.62 |
| 39) C | Benzo(a)pyrene    | 1.344 | 1.276 | 1.316 | 1.314 | 1.420 | 1.451 | 1.462 | 1.369 | 5.44 |
| 40)   | Dibenzo(a,h)an... | 1.149 | 1.150 | 1.196 | 1.240 | 1.352 | 1.363 | 1.402 | 1.265 | 8.42 |
| 41)   | Benzo(g,h,i)pe... | 1.402 | 1.365 | 1.426 | 1.432 | 1.499 | 1.477 | 1.509 | 1.444 | 3.66 |

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

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN102825\  
 Data File : BN038111.D  
 Acq On : 28 Oct 2025 13:00  
 Operator : RC/JU  
 Sample : SSTDICC0.1  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC0.1

Quant Time: Oct 28 17:31:34 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN102825.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Oct 28 17:15:13 2025  
 Response via : Initial Calibration

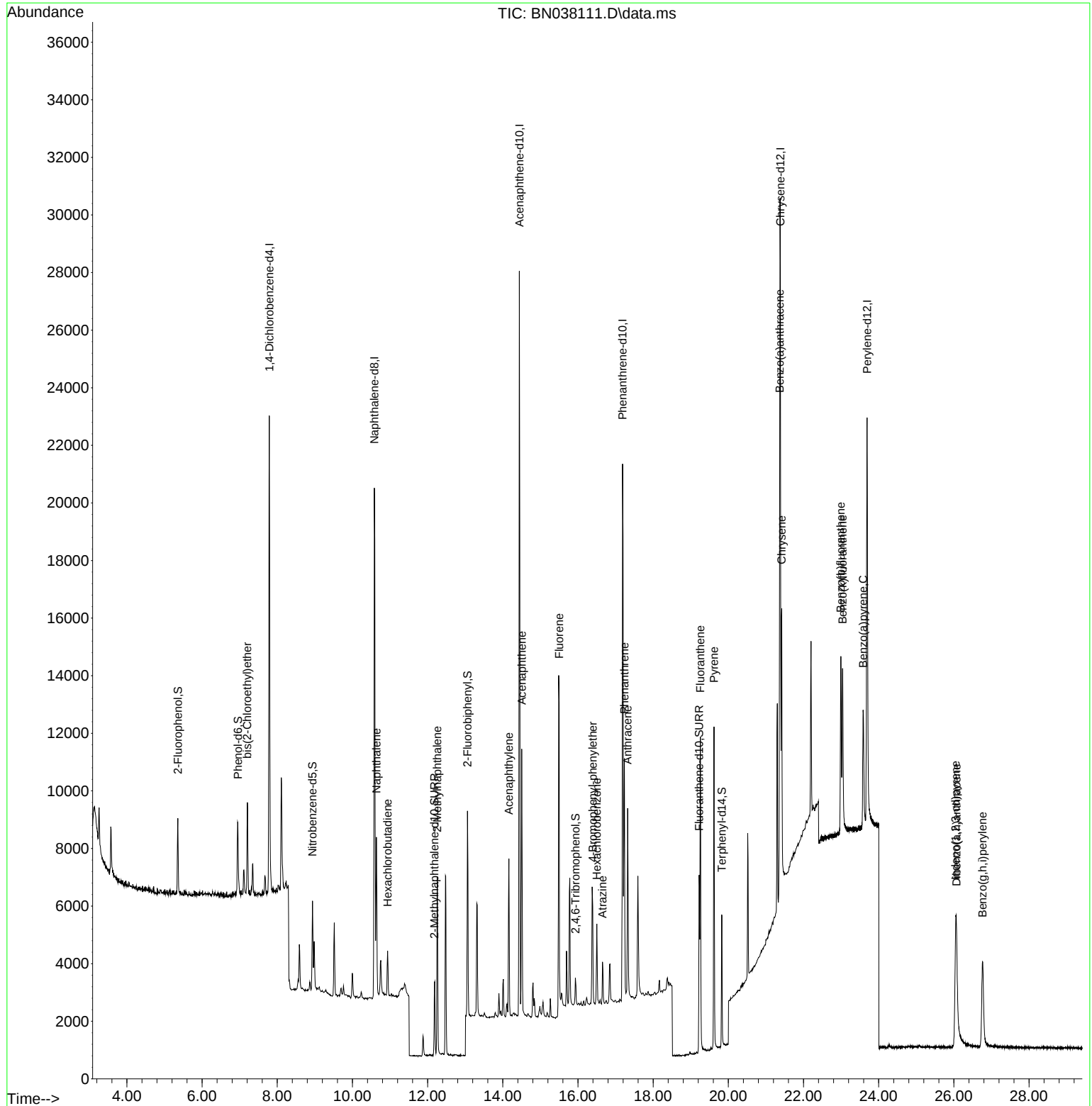
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.789  | 152  | 8239     | 0.400 | ng    | 0.01     |
| 7) Naphthalene-d8             | 10.584 | 136  | 24762    | 0.400 | ng    | # 0.01   |
| 13) Acenaphthene-d10          | 14.441 | 164  | 14233    | 0.400 | ng    | 0.01     |
| 19) Phenanthrene-d10          | 17.186 | 188  | 28114    | 0.400 | ng    | # 0.00   |
| 29) Chrysene-d12              | 21.384 | 240  | 22622    | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.692 | 264  | 20615    | 0.400 | ng    | 0.01     |
|                               |        |      |          |       |       |          |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.356  | 112  | 2196     | 0.113 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.952  | 99   | 2608     | 0.110 | ng    | 0.01     |
| 8) Nitrobenzene-d5            | 8.939  | 82   | 2497     | 0.125 | ng    | 0.01     |
| 11) 2-Methylnaphthalene-d10   | 12.182 | 152  | 3595     | 0.102 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.932 | 330  | 558      | 0.095 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 13.062 | 172  | 6383     | 0.112 | ng    | 0.01     |
| 27) Fluoranthene-d10          | 19.225 | 212  | 7307     | 0.103 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.829 | 244  | 4967     | 0.101 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| Target Compounds              |        |      |          |       |       | Qvalue   |
| 6) bis(2-Chloroethyl)ether    | 7.204  | 93   | 2398     | 0.103 | ng    | 95       |
| 9) Naphthalene                | 10.637 | 128  | 7049     | 0.103 | ng    | 95       |
| 10) Hexachlorobutadiene       | 10.936 | 225  | 1223     | 0.106 | ng    | # 98     |
| 12) 2-Methylnaphthalene       | 12.258 | 142  | 4736     | 0.104 | ng    | 96       |
| 16) Acenaphthylene            | 14.163 | 152  | 6290     | 0.098 | ng    | 100      |
| 17) Acenaphthene              | 14.505 | 154  | 4482     | 0.099 | ng    | 98       |
| 18) Fluorene                  | 15.499 | 166  | 5513     | 0.093 | ng    | 97       |
| 21) 4-Bromophenyl-phenylether | 16.391 | 248  | 1824     | 0.099 | ng    | # 82     |
| 22) Hexachlorobenzene         | 16.503 | 284  | 2137     | 0.102 | ng    | 98       |
| 23) Atrazine                  | 16.652 | 200  | 1338     | 0.099 | ng    | # 90     |
| 25) Phenanthrene              | 17.236 | 178  | 9006     | 0.101 | ng    | 99       |
| 26) Anthracene                | 17.322 | 178  | 7562     | 0.097 | ng    | 98       |
| 28) Fluoranthene              | 19.257 | 202  | 10174    | 0.102 | ng    | 99       |
| 30) Pyrene                    | 19.620 | 202  | 10370    | 0.102 | ng    | 99       |
| 32) Benzo(a)anthracene        | 21.367 | 228  | 8433     | 0.104 | ng    | 99       |
| 33) Chrysene                  | 21.420 | 228  | 9181     | 0.105 | ng    | 98       |
| 36) Indeno(1,2,3-cd)pyrene    | 26.048 | 276  | 7839     | 0.093 | ng    | 98       |
| 37) Benzo(b)fluoranthene      | 22.993 | 252  | 8261     | 0.094 | ng    | # 67     |
| 38) Benzo(k)fluoranthene      | 23.040 | 252  | 8515     | 0.096 | ng    | # 67     |
| 39) Benzo(a)pyrene            | 23.590 | 252  | 6927     | 0.098 | ng    | # 58     |
| 40) Dibenzo(a,h)anthracene    | 26.072 | 278  | 5922     | 0.091 | ng    | # 71     |
| 41) Benzo(g,h,i)perylene      | 26.765 | 276  | 7227     | 0.097 | ng    | # 88     |
| -----                         |        |      |          |       |       |          |

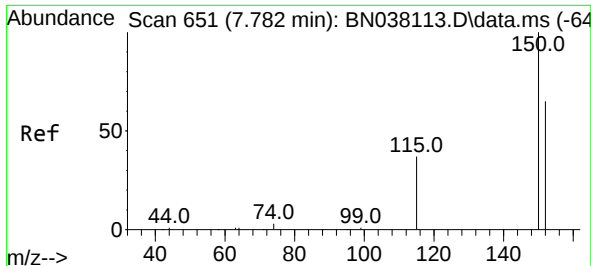
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN102825\  
Data File : BN038111.D  
Acq On : 28 Oct 2025 13:00  
Operator : RC/JU  
Sample : SSTDICC0.1  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

Quant Time: Oct 28 17:31:34 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN102825.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Oct 28 17:15:13 2025  
Response via : Initial Calibration

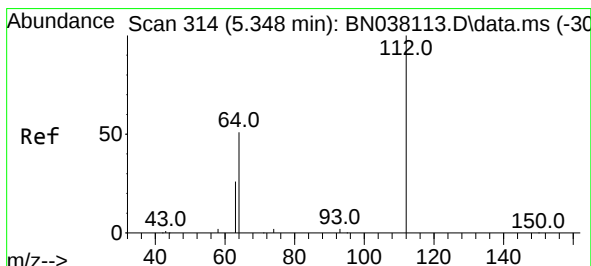
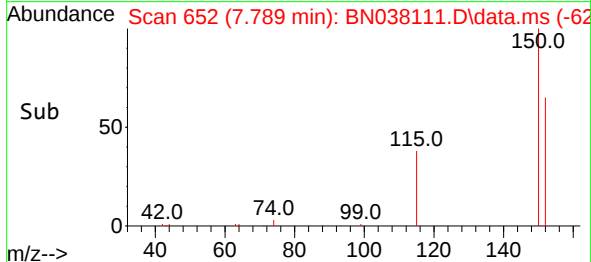
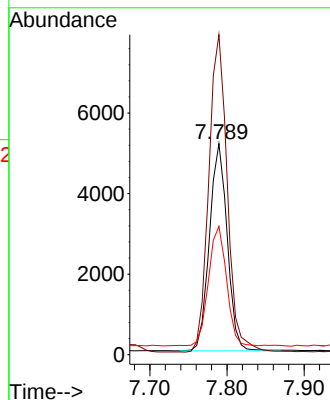
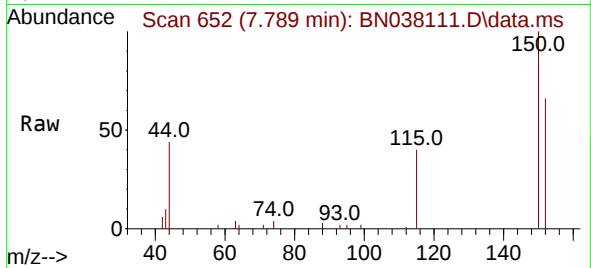




#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.789 min Scan# 61  
Delta R.T. 0.014 min  
Lab File: BN038111.D  
Acq: 28 Oct 2025 13:00

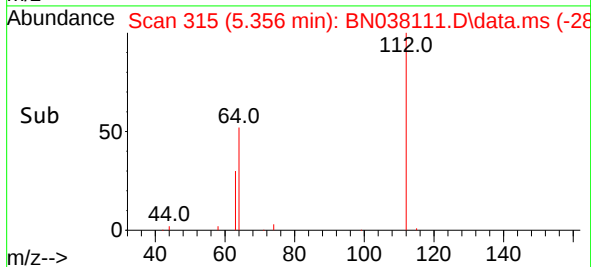
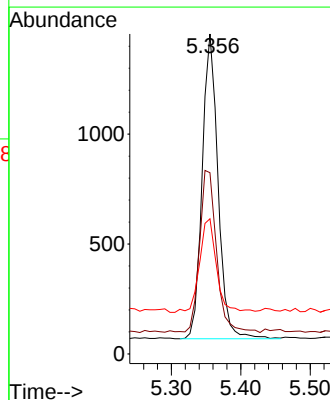
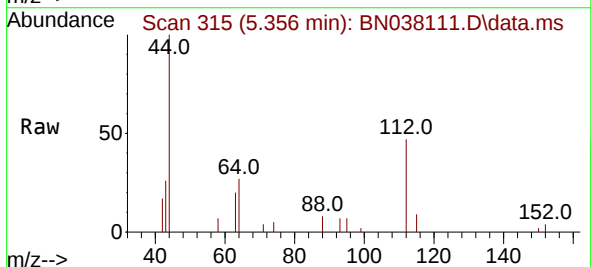
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

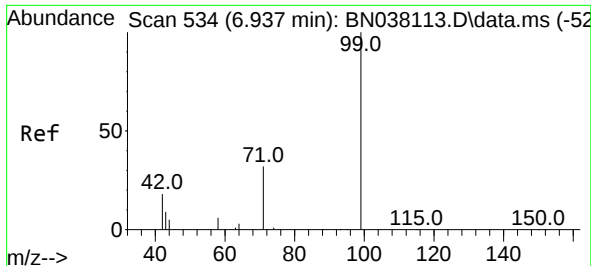
Tgt Ion:152 Resp: 8239  
Ion Ratio Lower Upper  
152 100  
150 151.7 122.3 183.5  
115 60.8 47.4 71.0



#4  
2-Fluorophenol  
Concen: 0.113 ng  
RT: 5.356 min Scan# 315  
Delta R.T. 0.007 min  
Lab File: BN038111.D  
Acq: 28 Oct 2025 13:00

Tgt Ion:112 Resp: 2196  
Ion Ratio Lower Upper  
112 100  
64 57.2 45.4 68.0  
63 32.8 23.2 34.8

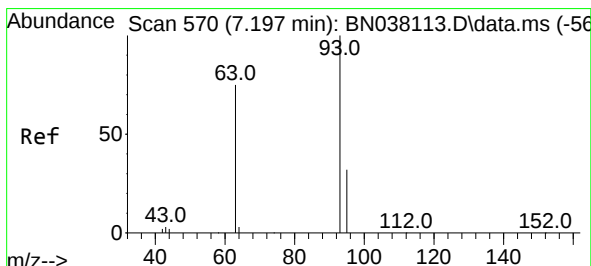
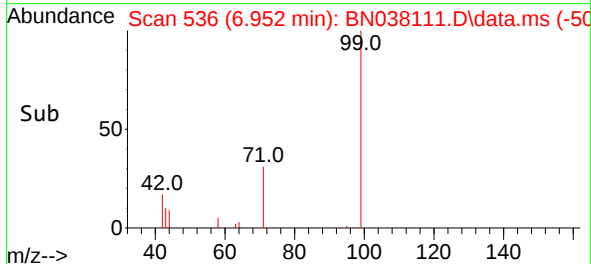
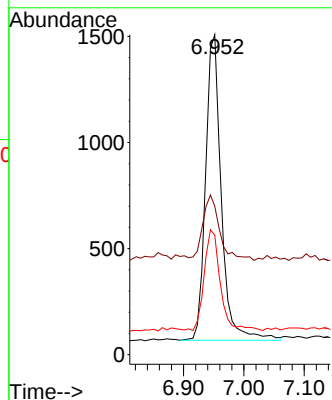
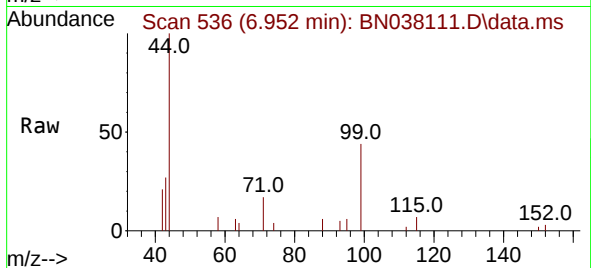




#5  
Phenol-d6  
Concen: 0.110 ng  
RT: 6.952 min Scan# 51  
Delta R.T. 0.015 min  
Lab File: BN038111.D  
Acq: 28 Oct 2025 13:00

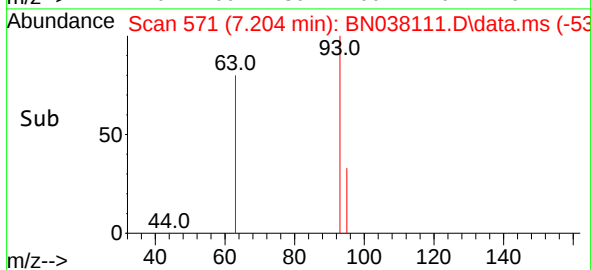
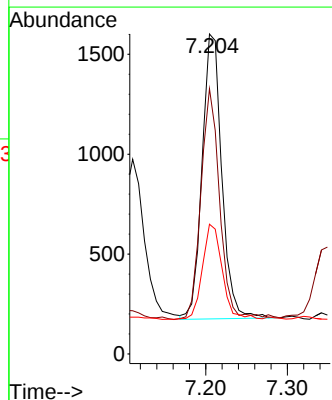
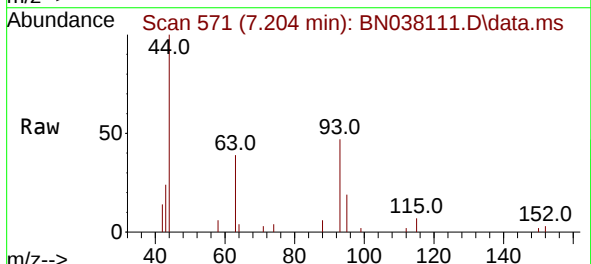
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

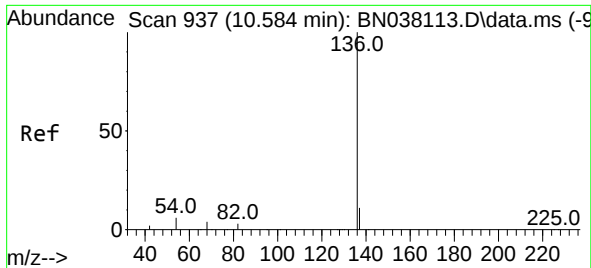
Tgt Ion: 99 Resp: 2608  
Ion Ratio Lower Upper  
99 100  
42 23.4 16.6 24.8  
71 34.0 25.4 38.2



#6  
bis(2-Chloroethyl)ether  
Concen: 0.103 ng  
RT: 7.204 min Scan# 571  
Delta R.T. 0.007 min  
Lab File: BN038111.D  
Acq: 28 Oct 2025 13:00

Tgt Ion: 93 Resp: 2398  
Ion Ratio Lower Upper  
93 100  
63 78.2 59.3 88.9  
95 34.1 25.2 37.8

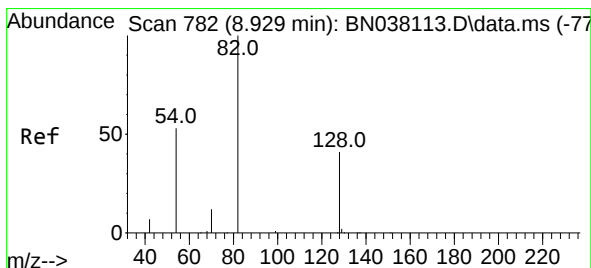
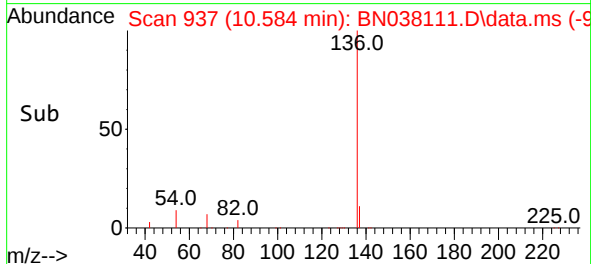
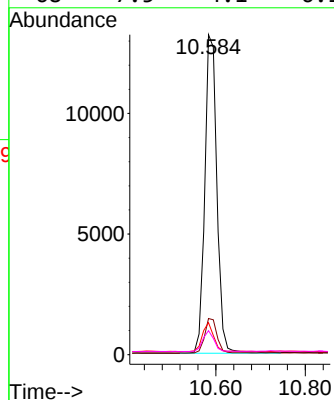
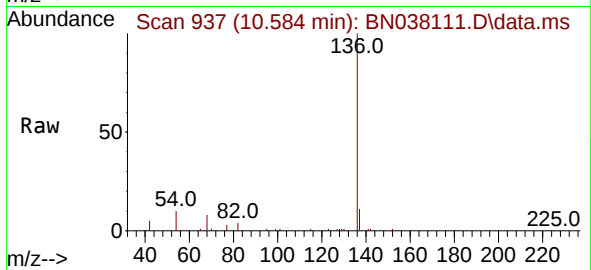




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.584 min Scan# 91  
Delta R.T. 0.011 min  
Lab File: BN038111.D  
Acq: 28 Oct 2025 13:00

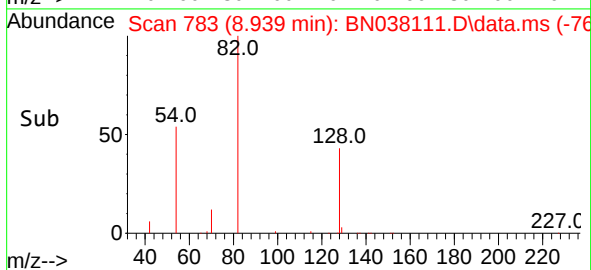
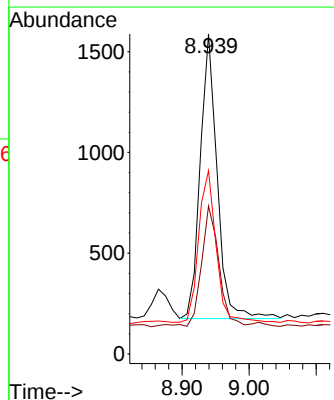
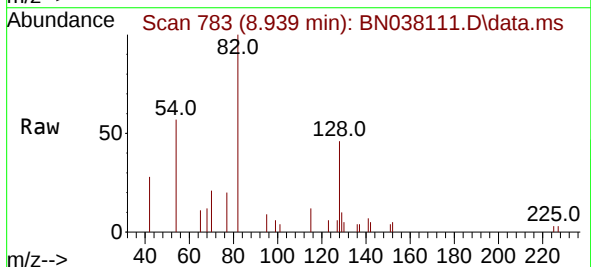
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

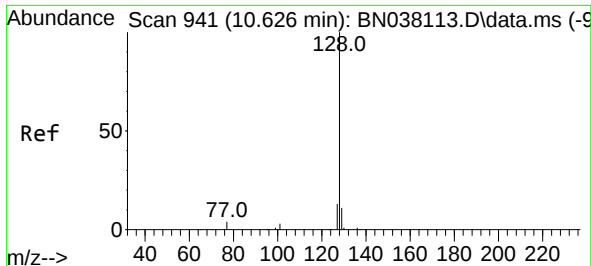
Tgt Ion:136 Resp: 24762  
Ion Ratio Lower Upper  
136 100  
137 11.3 9.0 13.4  
54 10.0 5.2 7.8#  
68 7.5 4.1 6.1#



#8  
Nitrobenzene-d5  
Concen: 0.125 ng  
RT: 8.939 min Scan# 783  
Delta R.T. 0.011 min  
Lab File: BN038111.D  
Acq: 28 Oct 2025 13:00

Tgt Ion: 82 Resp: 2497  
Ion Ratio Lower Upper  
82 100  
128 46.2 34.1 51.1  
54 57.2 43.5 65.3

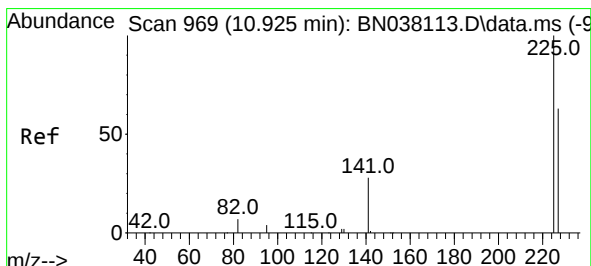
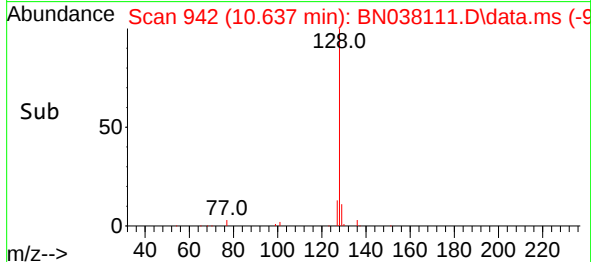
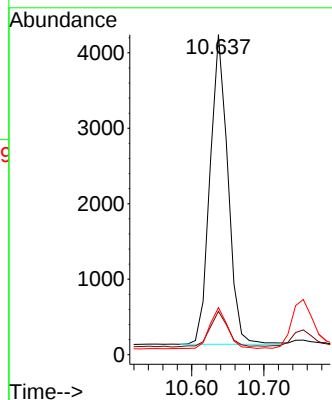
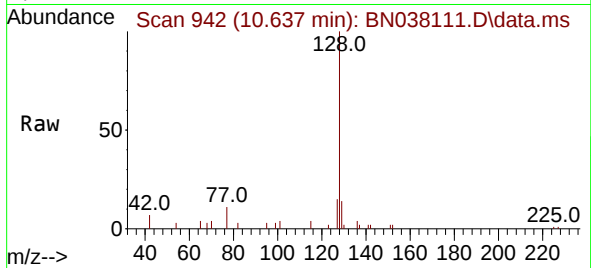




#9  
Naphthalene  
Concen: 0.103 ng  
RT: 10.637 min Scan# 941  
Delta R.T. 0.011 min  
Lab File: BN038111.D  
Acq: 28 Oct 2025 13:00

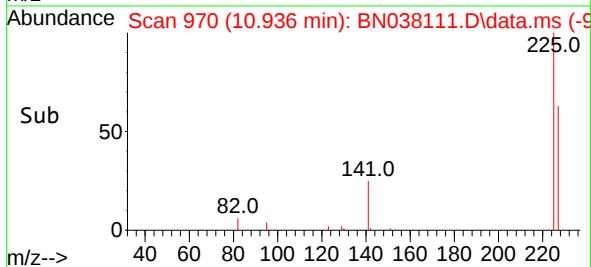
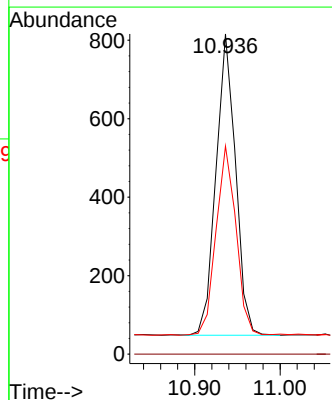
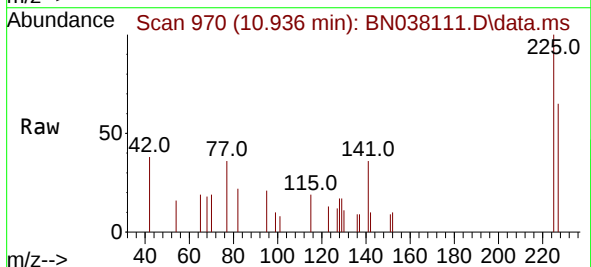
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

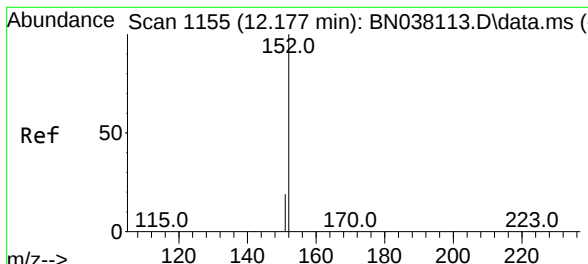
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:128 | Resp: | 7049      |
| Ion Ratio   | Lower | Upper     |
| 128         | 100   |           |
| 129         | 13.5  | 9.1 13.7  |
| 127         | 14.7  | 10.5 15.7 |



#10  
Hexachlorobutadiene  
Concen: 0.106 ng  
RT: 10.936 min Scan# 970  
Delta R.T. 0.011 min  
Lab File: BN038111.D  
Acq: 28 Oct 2025 13:00

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:225 | Resp: | 1223      |
| Ion Ratio   | Lower | Upper     |
| 225         | 100   |           |
| 223         | 0.0   | 0.0 0.0   |
| 227         | 64.3  | 50.3 75.5 |

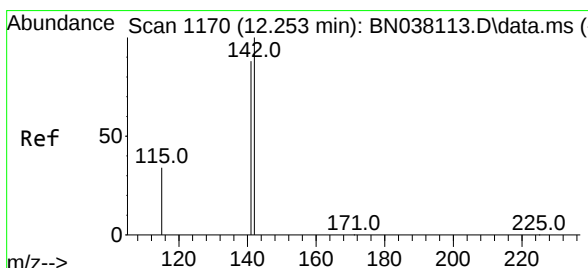
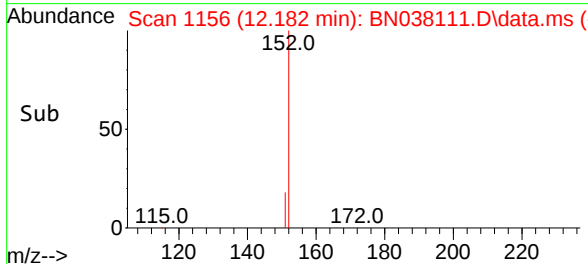
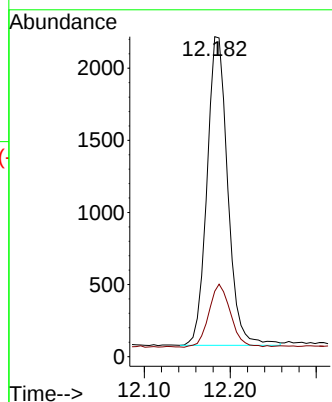
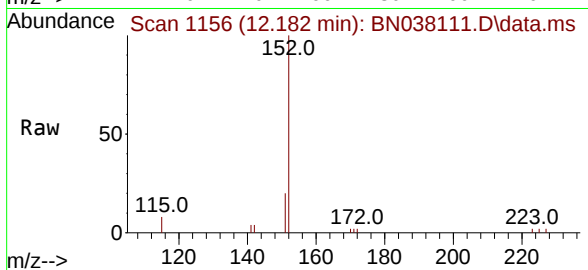




#11  
2-Methylnaphthalene-d10  
Concen: 0.102 ng  
RT: 12.182 min Scan# 1156  
Delta R.T. 0.005 min  
Lab File: BN038111.D  
Acq: 28 Oct 2025 13:00

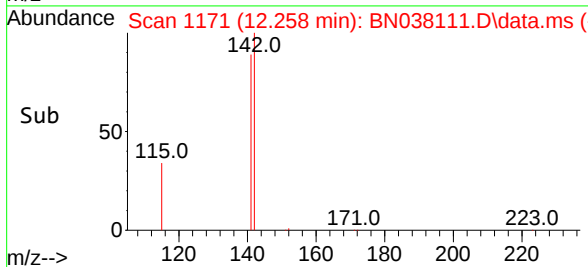
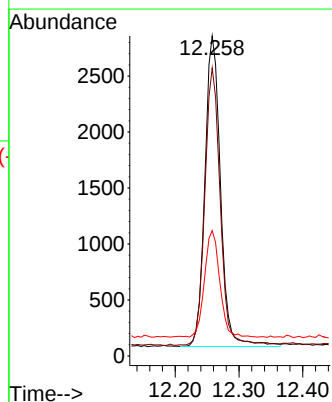
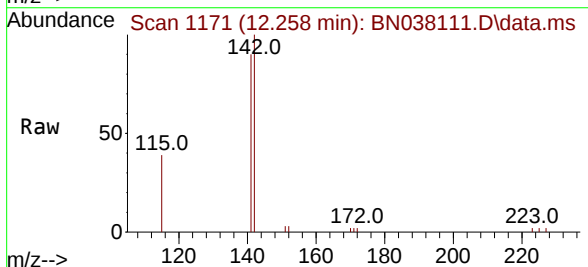
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

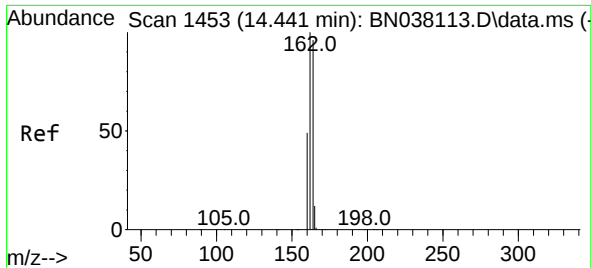
Tgt Ion:152 Resp: 3595  
Ion Ratio Lower Upper  
152 100  
151 21.4 16.8 25.2



#12  
2-Methylnaphthalene  
Concen: 0.104 ng  
RT: 12.258 min Scan# 1171  
Delta R.T. 0.010 min  
Lab File: BN038111.D  
Acq: 28 Oct 2025 13:00

Tgt Ion:142 Resp: 4736  
Ion Ratio Lower Upper  
142 100  
141 90.0 70.3 105.5  
115 39.2 27.8 41.6

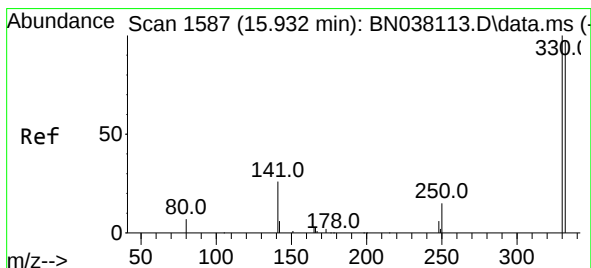
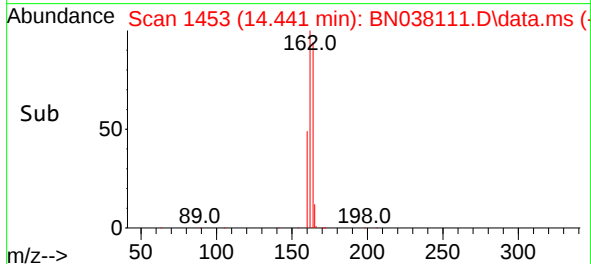
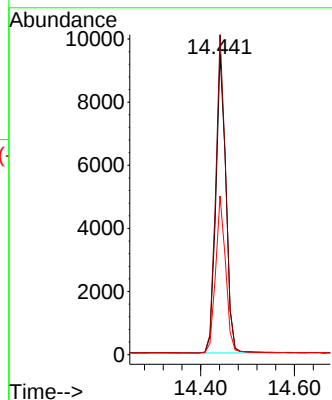
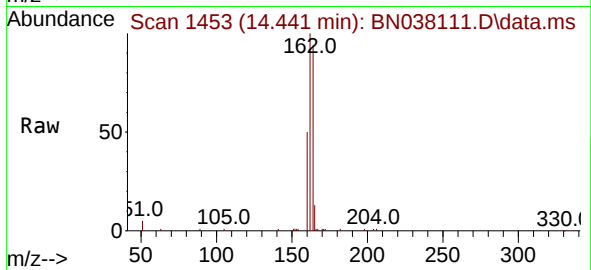




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.441 min Scan# 1453  
Delta R.T. 0.011 min  
Lab File: BN038111.D  
Acq: 28 Oct 2025 13:00

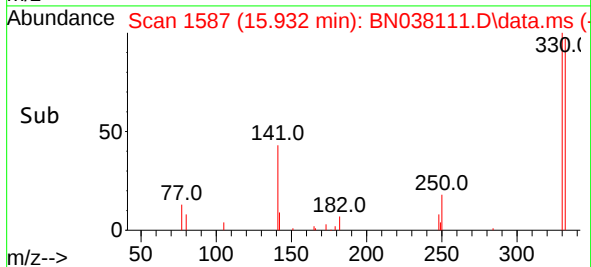
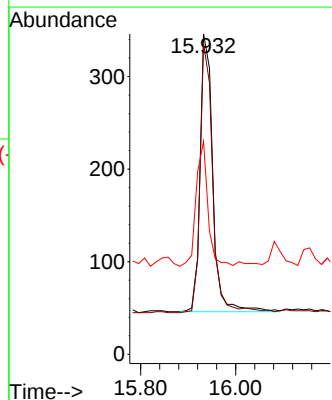
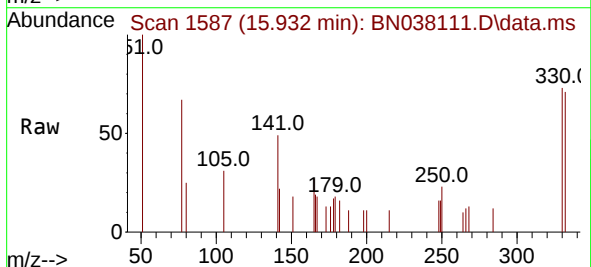
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

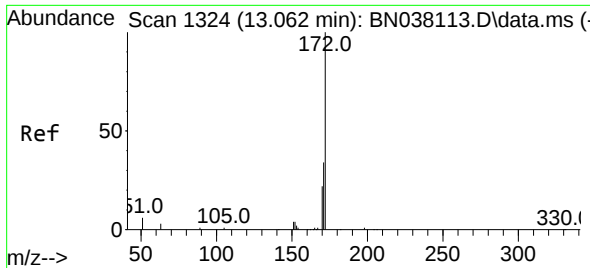
Tgt Ion:164 Resp: 14233  
Ion Ratio Lower Upper  
164 100  
162 106.3 83.0 124.4  
160 52.7 40.7 61.1



#14  
2,4,6-Tribromophenol  
Concen: 0.095 ng  
RT: 15.932 min Scan# 1587  
Delta R.T. 0.000 min  
Lab File: BN038111.D  
Acq: 28 Oct 2025 13:00

Tgt Ion:330 Resp: 558  
Ion Ratio Lower Upper  
330 100  
332 95.9 76.6 114.8  
141 41.0 34.1 51.1

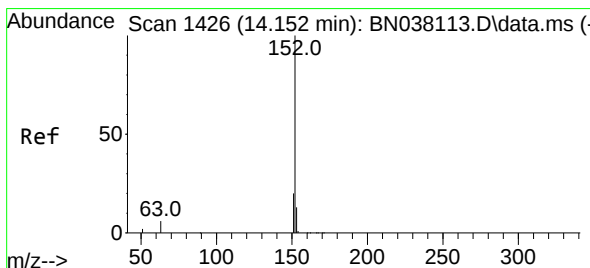
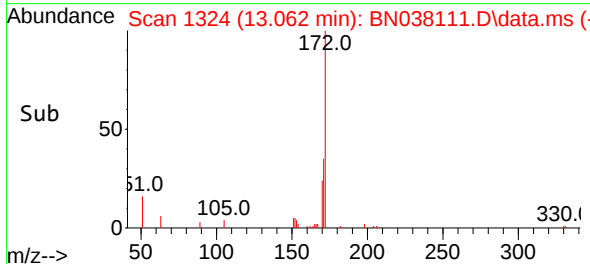
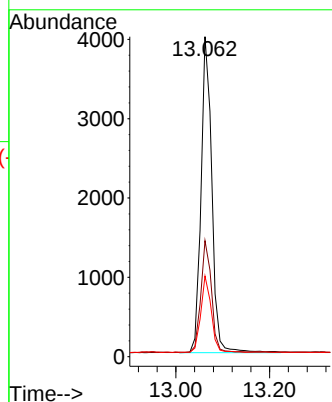
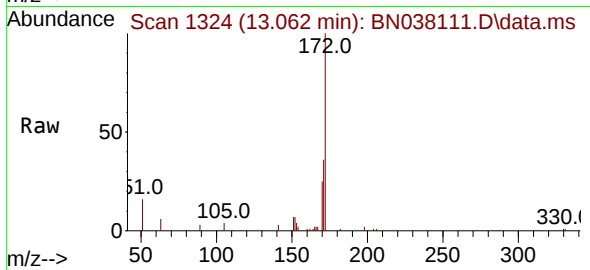




#15  
2-Fluorobiphenyl  
Concen: 0.112 ng  
RT: 13.062 min Scan# 11  
Delta R.T. 0.011 min  
Lab File: BN038111.D  
Acq: 28 Oct 2025 13:00

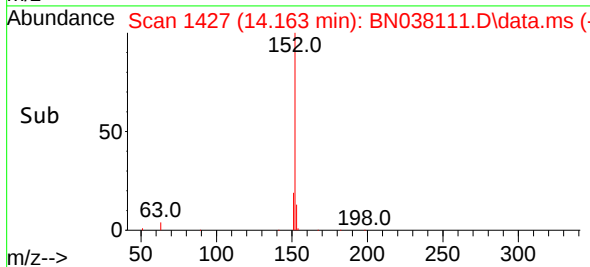
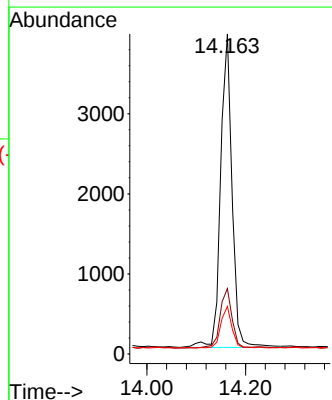
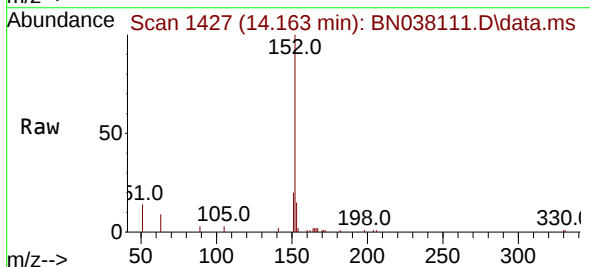
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

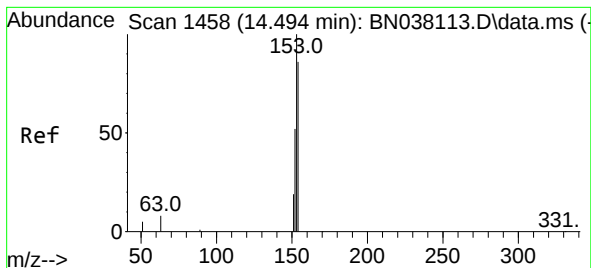
Tgt Ion:172 Resp: 6383  
Ion Ratio Lower Upper  
172 100  
171 36.2 27.8 41.6  
170 25.2 18.1 27.1



#16  
Acenaphthylene  
Concen: 0.098 ng  
RT: 14.163 min Scan# 1427  
Delta R.T. 0.011 min  
Lab File: BN038111.D  
Acq: 28 Oct 2025 13:00

Tgt Ion:152 Resp: 6290  
Ion Ratio Lower Upper  
152 100  
151 19.9 15.8 23.8  
153 12.9 10.2 15.2





#17

Acenaphthene

Concen: 0.099 ng

RT: 14.505 min Scan# 1459

Delta R.T. 0.011 min

Lab File: BN038111.D

Acq: 28 Oct 2025 13:00

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.1

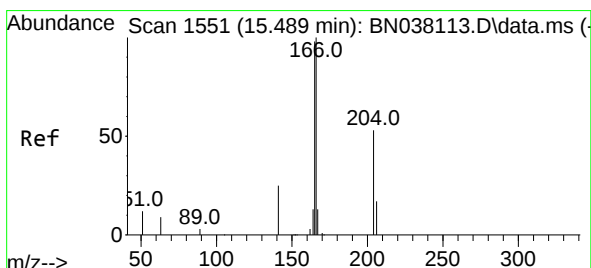
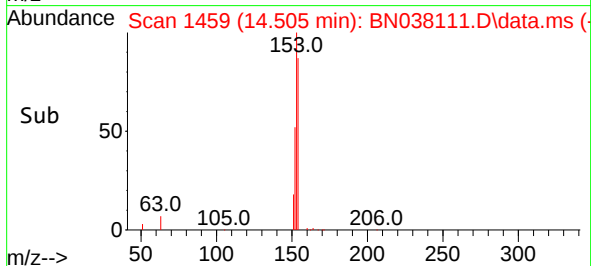
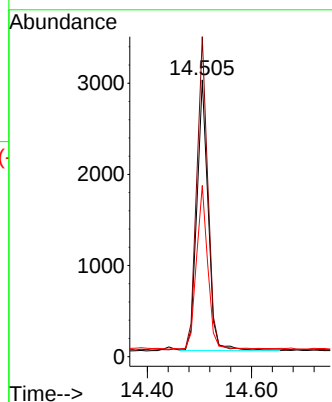
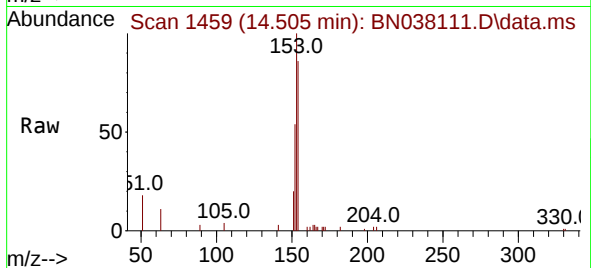
Tgt Ion:154 Resp: 4482

Ion Ratio Lower Upper

154 100

153 114.1 90.0 135.0

152 60.7 47.3 70.9



#18

Fluorene

Concen: 0.093 ng

RT: 15.499 min Scan# 1552

Delta R.T. 0.010 min

Lab File: BN038111.D

Acq: 28 Oct 2025 13:00

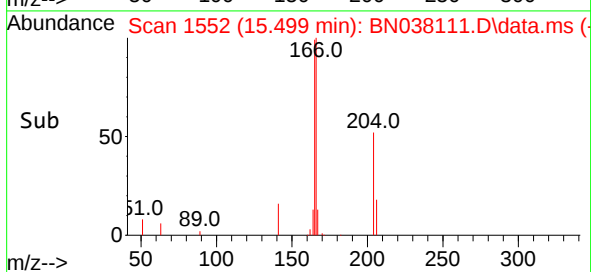
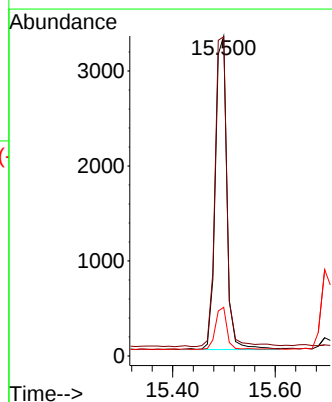
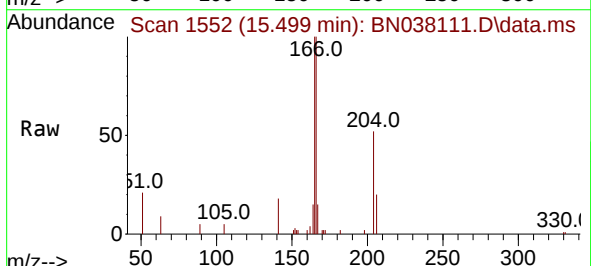
Tgt Ion:166 Resp: 5513

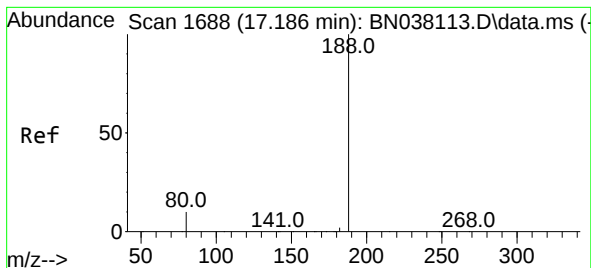
Ion Ratio Lower Upper

166 100

165 102.4 79.0 118.4

167 13.3 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.186 min Scan# 1688

Delta R.T. 0.000 min

Lab File: BN038111.D

Acq: 28 Oct 2025 13:00

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.1

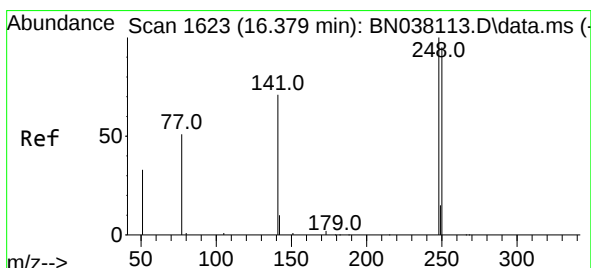
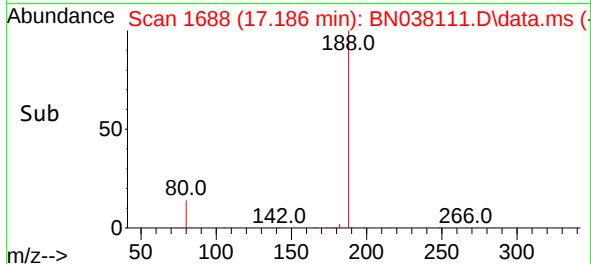
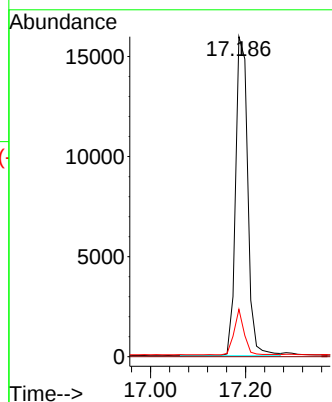
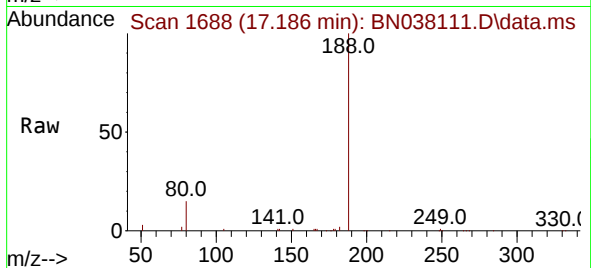
Tgt Ion:188 Resp: 28114

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 14.8 8.6 13.0#



#21

4-Bromophenyl-phenylether

Concen: 0.099 ng

RT: 16.391 min Scan# 1624

Delta R.T. 0.012 min

Lab File: BN038111.D

Acq: 28 Oct 2025 13:00

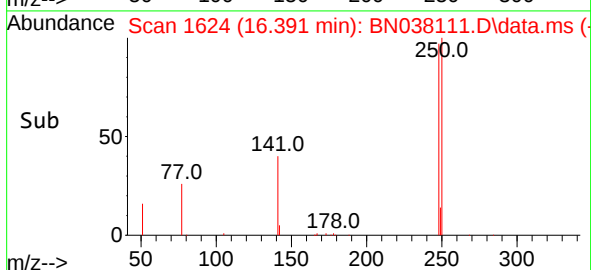
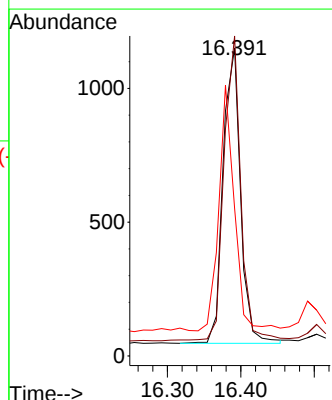
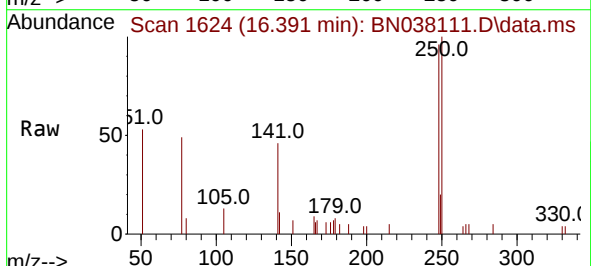
Tgt Ion:248 Resp: 1824

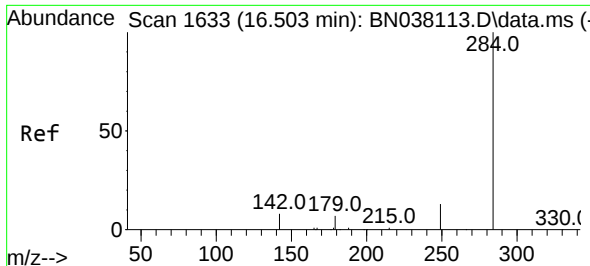
Ion Ratio Lower Upper

248 100

250 103.9 76.2 114.2

141 48.0 57.6 86.4#

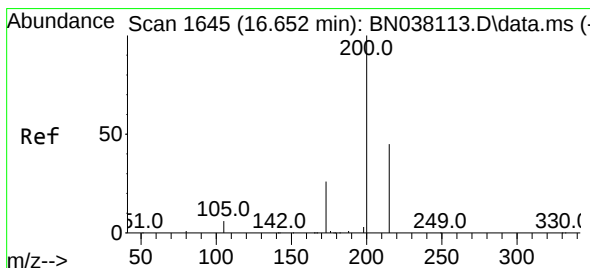
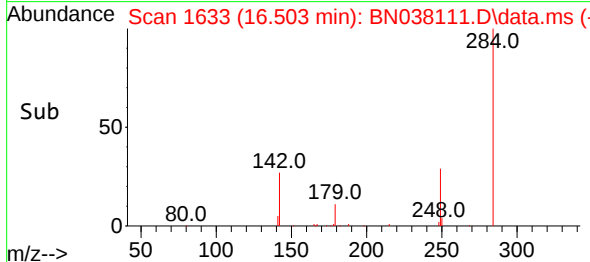
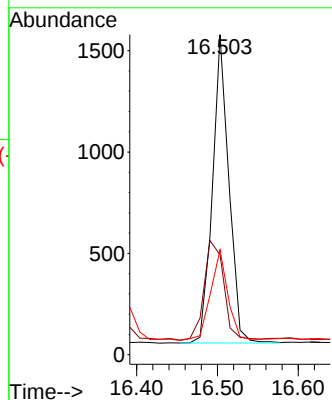
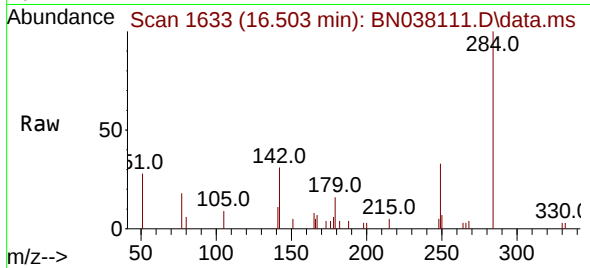




#22  
Hexachlorobenzene  
Concen: 0.102 ng  
RT: 16.503 min Scan# 1633  
Delta R.T. 0.000 min  
Lab File: BN038111.D  
Acq: 28 Oct 2025 13:00

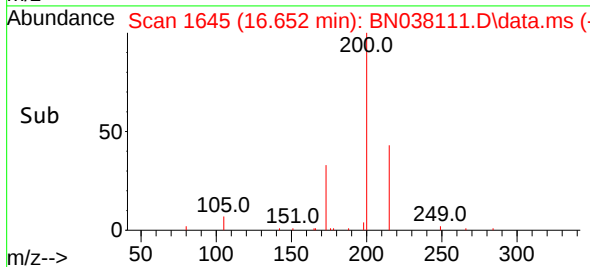
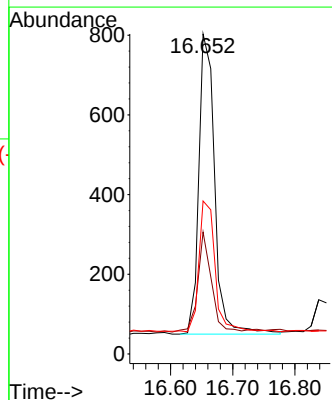
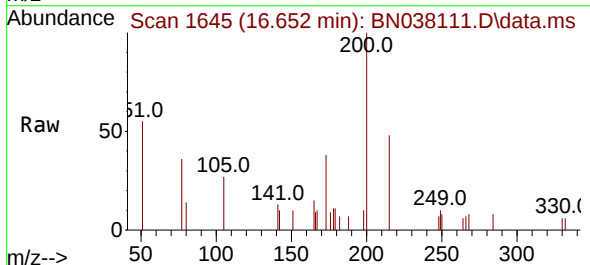
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BNA\_N  
ClientSampleId :  
SSTDICC0.1

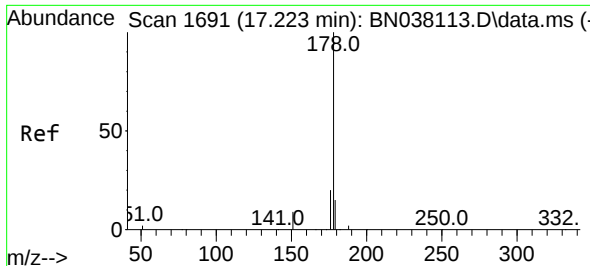
Tgt Ion:284 Resp: 2137  
Ion Ratio Lower Upper  
284 100  
142 38.9 30.5 45.7  
249 31.2 23.5 35.3



#23  
Atrazine  
Concen: 0.099 ng  
RT: 16.652 min Scan# 1645  
Delta R.T. 0.000 min  
Lab File: BN038111.D  
Acq: 28 Oct 2025 13:00

Tgt Ion:200 Resp: 1338  
Ion Ratio Lower Upper  
200 100  
173 38.1 21.4 32.2#  
215 47.8 36.7 55.1

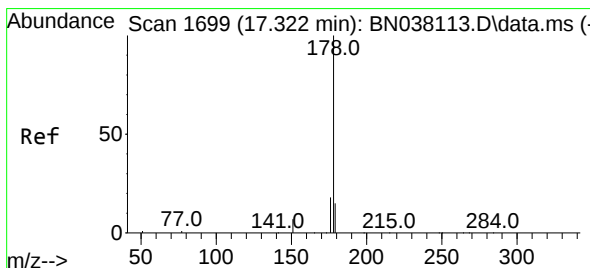
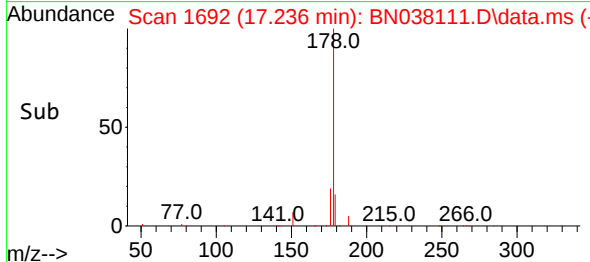
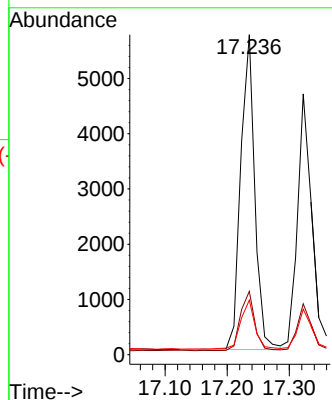
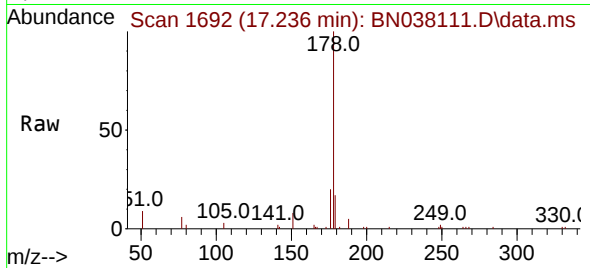




#25  
Phenanthrene  
Concen: 0.101 ng  
RT: 17.236 min Scan# 1692  
Delta R.T. 0.012 min  
Lab File: BN038111.D  
Acq: 28 Oct 2025 13:00

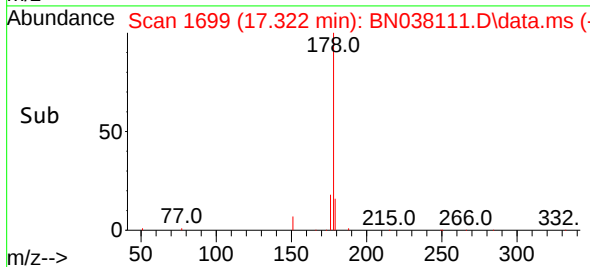
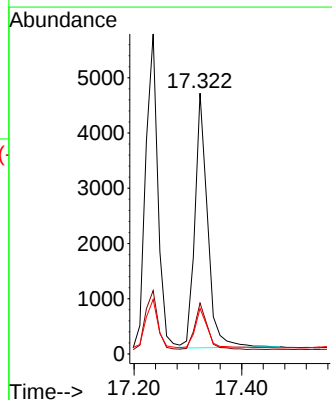
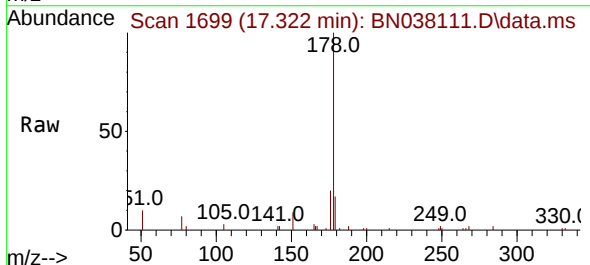
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ClientSampleId :  
SSTDICC0.1

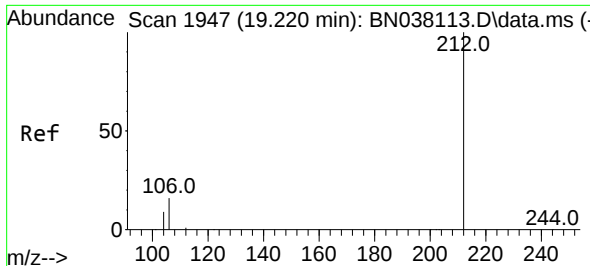
Tgt Ion:178 Resp: 9006  
Ion Ratio Lower Upper  
178 100  
176 19.0 15.5 23.3  
179 15.8 12.2 18.4



#26  
Anthracene  
Concen: 0.097 ng  
RT: 17.322 min Scan# 1699  
Delta R.T. 0.000 min  
Lab File: BN038111.D  
Acq: 28 Oct 2025 13:00

Tgt Ion:178 Resp: 7562  
Ion Ratio Lower Upper  
178 100  
176 18.4 14.9 22.3  
179 16.0 11.8 17.8

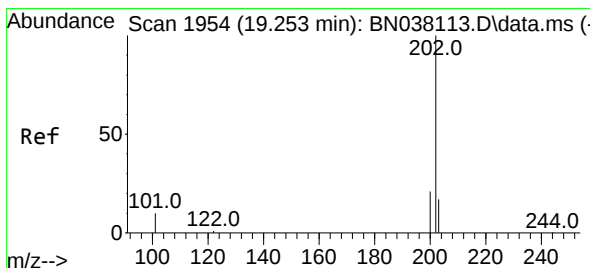
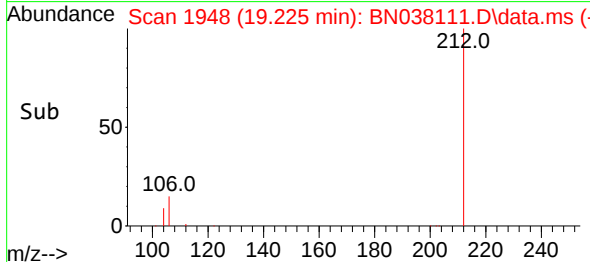
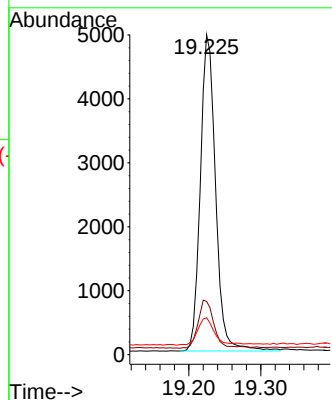
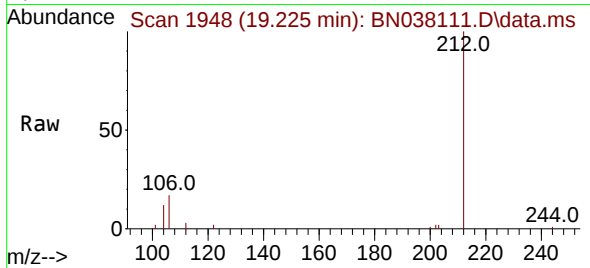




#27  
Fluoranthene-d10  
Concen: 0.103 ng  
RT: 19.225 min Scan# 1948  
Delta R.T. 0.005 min  
Lab File: BN038111.D  
Acq: 28 Oct 2025 13:00

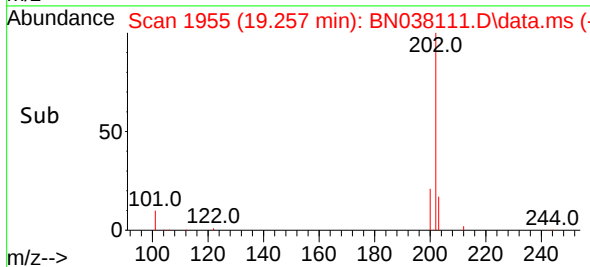
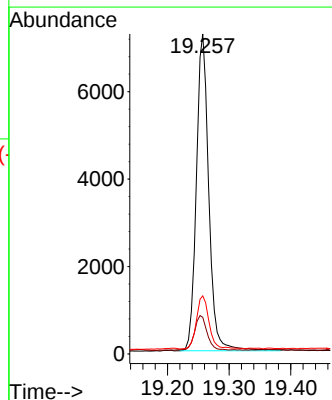
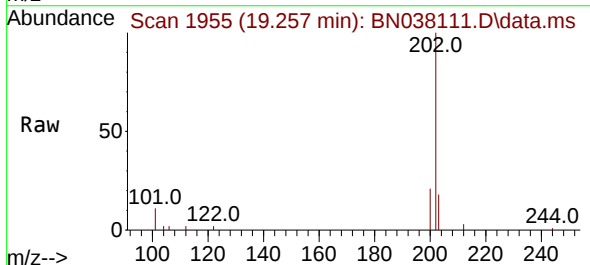
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

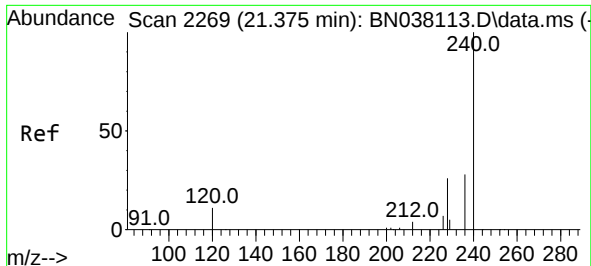
Tgt Ion:212 Resp: 7307  
Ion Ratio Lower Upper  
212 100  
106 15.9 12.6 19.0  
104 9.3 7.1 10.7



#28  
Fluoranthene  
Concen: 0.102 ng  
RT: 19.257 min Scan# 1955  
Delta R.T. 0.005 min  
Lab File: BN038111.D  
Acq: 28 Oct 2025 13:00

Tgt Ion:202 Resp: 10174  
Ion Ratio Lower Upper  
202 100  
101 11.4 9.4 14.2  
203 17.2 13.4 20.2

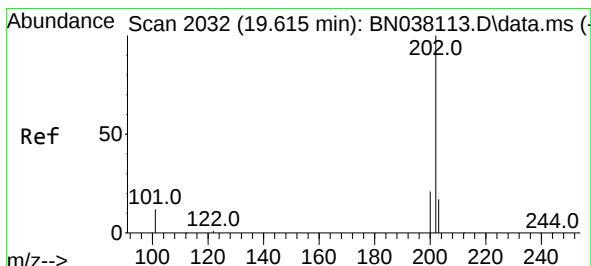
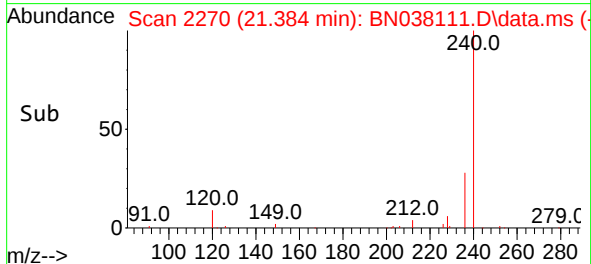
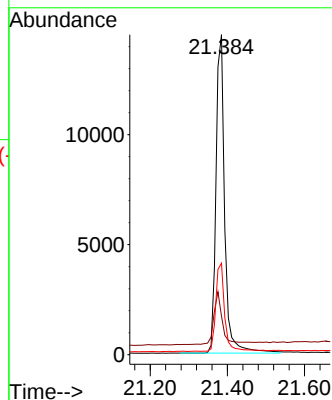
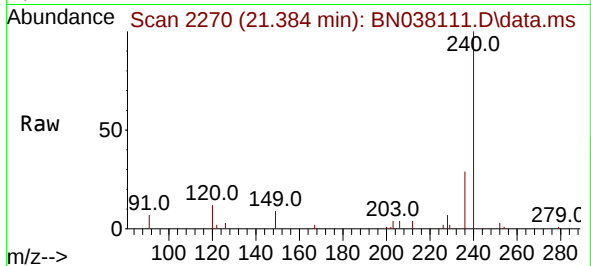




#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.384 min Scan# 21  
Delta R.T. 0.009 min  
Lab File: BN038111.D  
Acq: 28 Oct 2025 13:00

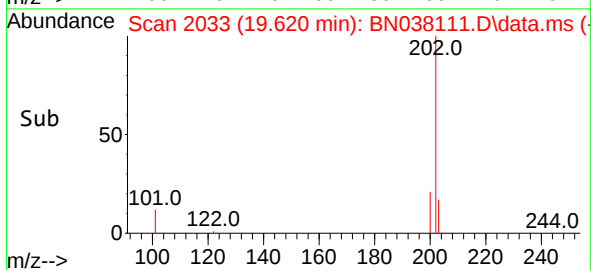
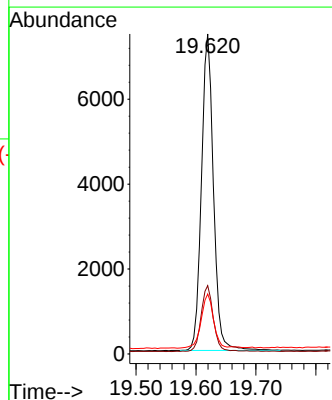
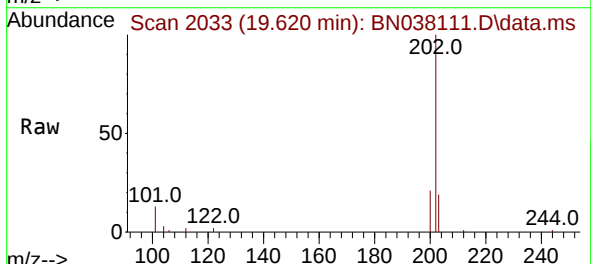
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

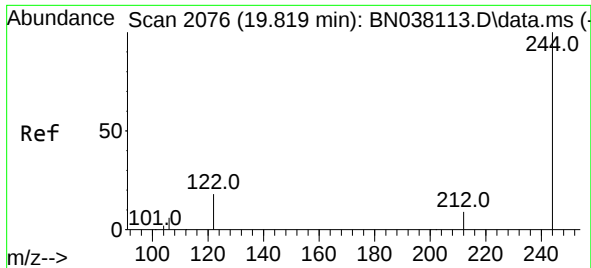
Tgt Ion:240 Resp: 22622  
Ion Ratio Lower Upper  
240 100  
120 12.1 10.7 16.1  
236 28.6 23.1 34.7



#30  
Pyrene  
Concen: 0.102 ng  
RT: 19.620 min Scan# 2033  
Delta R.T. 0.009 min  
Lab File: BN038111.D  
Acq: 28 Oct 2025 13:00

Tgt Ion:202 Resp: 10370  
Ion Ratio Lower Upper  
202 100  
200 21.3 16.7 25.1  
203 18.0 14.2 21.2

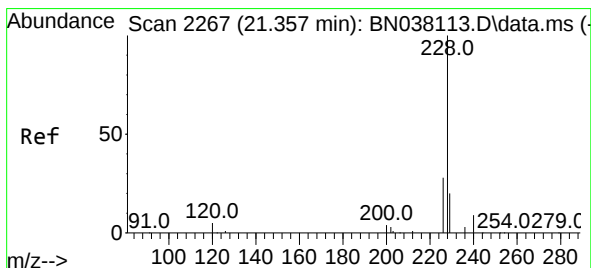
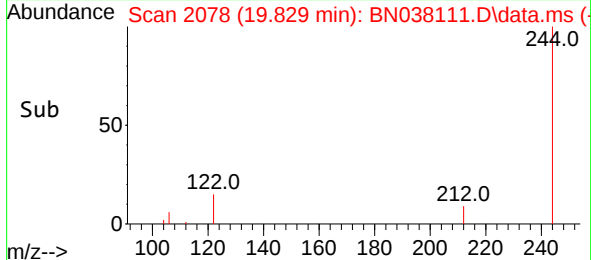
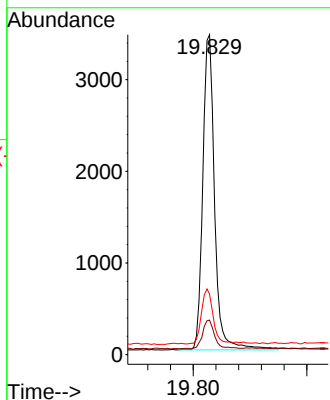
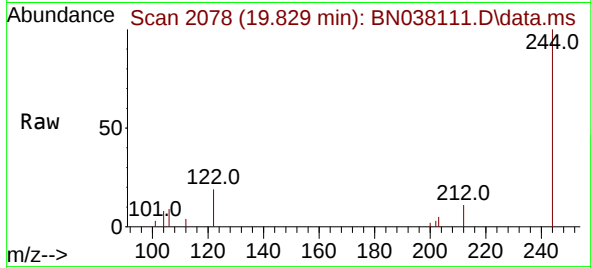




#31  
Terphenyl-d14  
Concen: 0.101 ng  
RT: 19.829 min Scan# 2076  
Delta R.T. 0.009 min  
Lab File: BN038111.D  
Acq: 28 Oct 2025 13:00

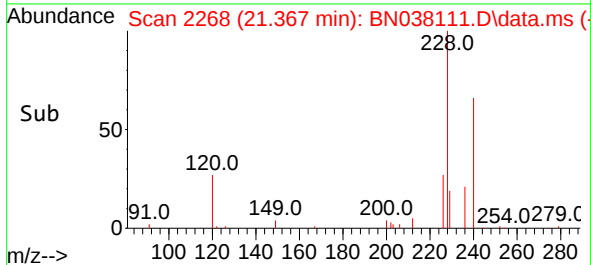
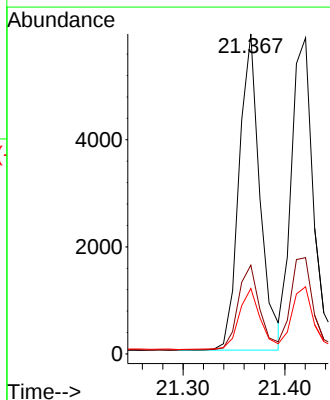
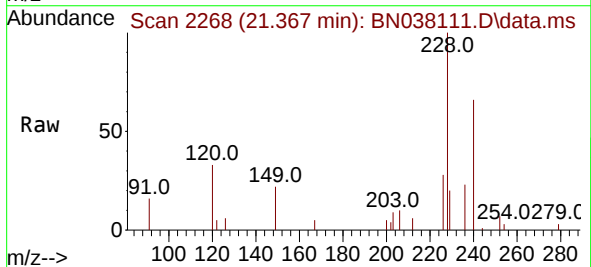
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BNA\_N  
ClientSampleId :  
SSTDICC0.1

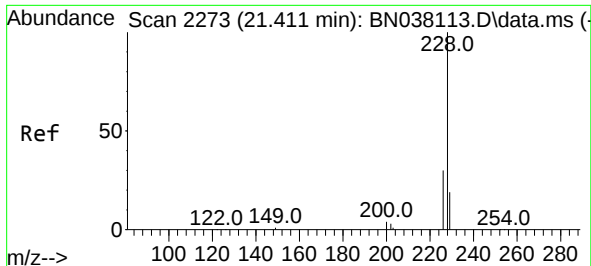
Tgt Ion:244 Resp: 4967  
Ion Ratio Lower Upper  
244 100  
212 10.8 7.8 11.6  
122 18.9 15.2 22.8



#32  
Benzo(a)anthracene  
Concen: 0.104 ng  
RT: 21.367 min Scan# 2268  
Delta R.T. 0.009 min  
Lab File: BN038111.D  
Acq: 28 Oct 2025 13:00

Tgt Ion:228 Resp: 8433  
Ion Ratio Lower Upper  
228 100  
226 27.7 22.2 33.4  
229 20.5 15.8 23.8

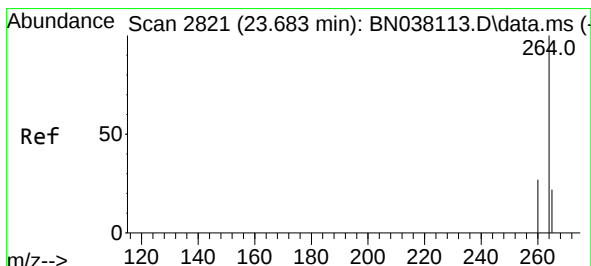
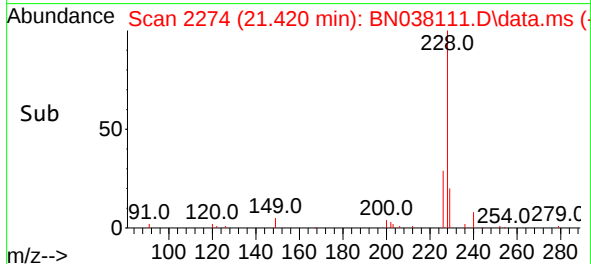
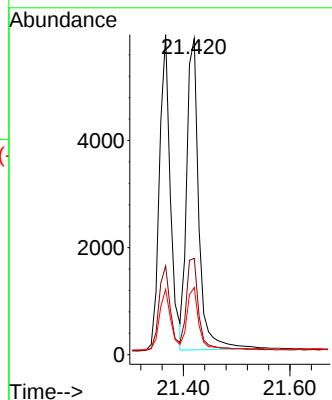
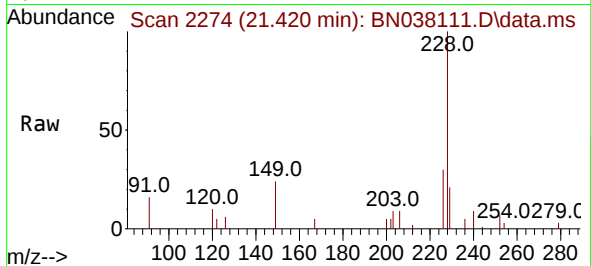




#33  
Chrysene  
Concen: 0.105 ng  
RT: 21.420 min Scan# 21  
Delta R.T. 0.009 min  
Lab File: BN038111.D  
Acq: 28 Oct 2025 13:00

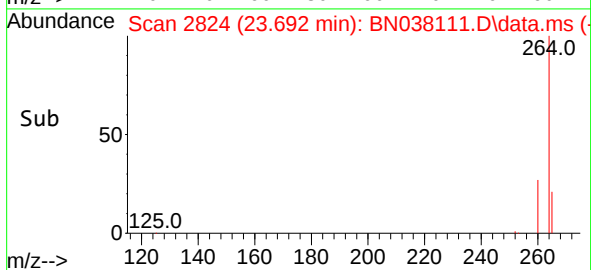
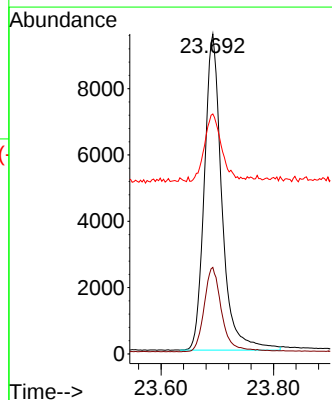
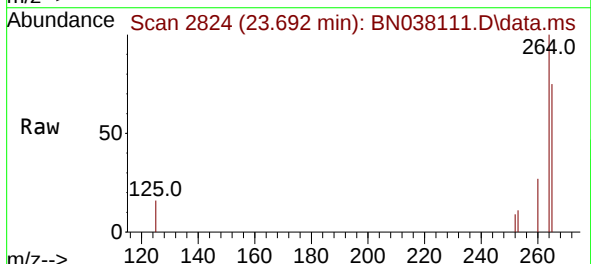
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ClientSampleId :  
SSTDICC0.1

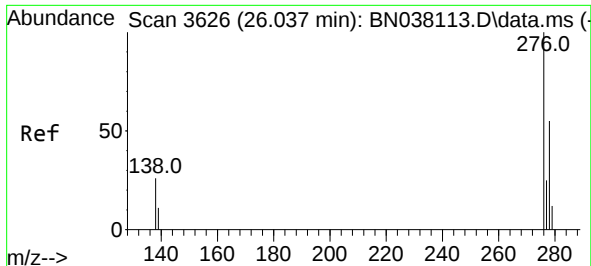
Tgt Ion:228 Resp: 9181  
Ion Ratio Lower Upper  
228 100  
226 30.5 24.3 36.5  
229 21.3 15.7 23.5



#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.692 min Scan# 2824  
Delta R.T. 0.012 min  
Lab File: BN038111.D  
Acq: 28 Oct 2025 13:00

Tgt Ion:264 Resp: 20615  
Ion Ratio Lower Upper  
264 100  
260 27.0 21.8 32.8  
265 75.0 68.6 102.8

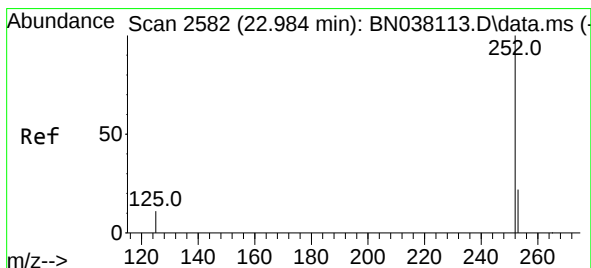
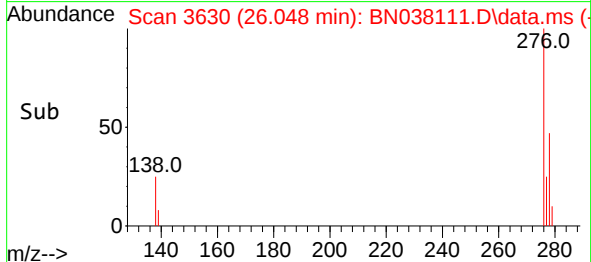
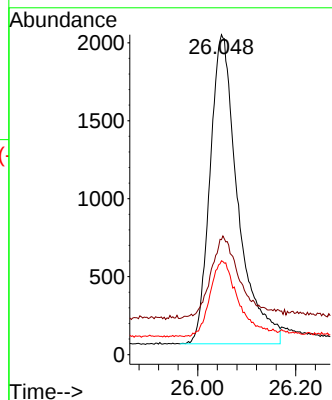
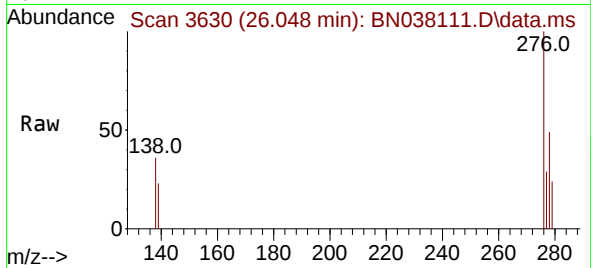




#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.093 ng  
RT: 26.048 min Scan# 3626  
Delta R.T. 0.015 min  
Lab File: BN038111.D  
Acq: 28 Oct 2025 13:00

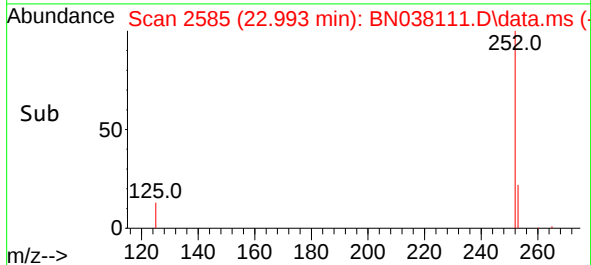
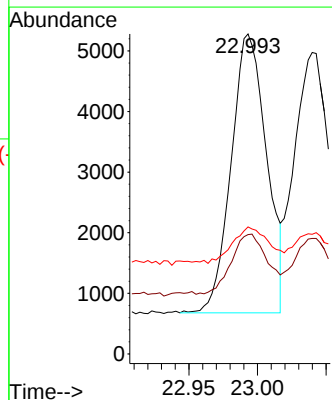
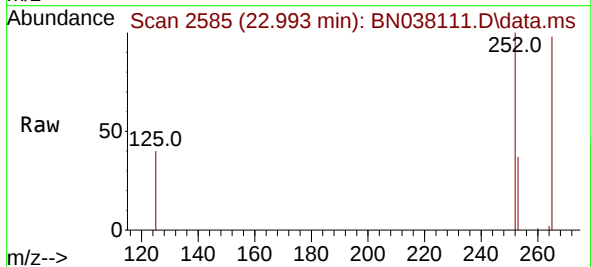
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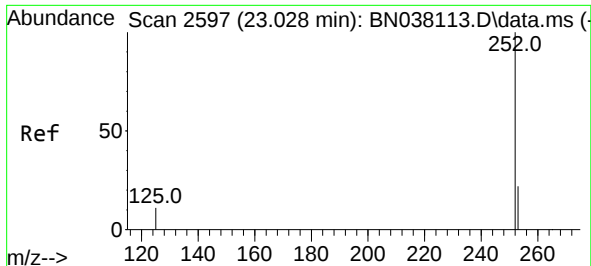
Tgt Ion:276 Resp: 7839  
Ion Ratio Lower Upper  
276 100  
138 25.8 21.4 32.0  
277 24.8 19.2 28.8



#37  
Benzo(b)fluoranthene  
Concen: 0.094 ng  
RT: 22.993 min Scan# 2585  
Delta R.T. 0.012 min  
Lab File: BN038111.D  
Acq: 28 Oct 2025 13:00

Tgt Ion:252 Resp: 8261  
Ion Ratio Lower Upper  
252 100  
253 37.3 20.9 31.3#  
125 39.7 14.1 21.1#

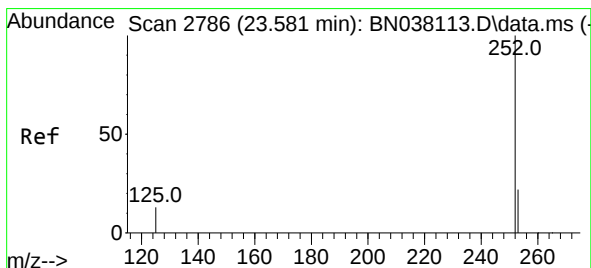
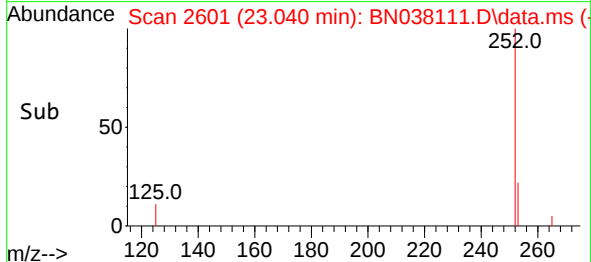
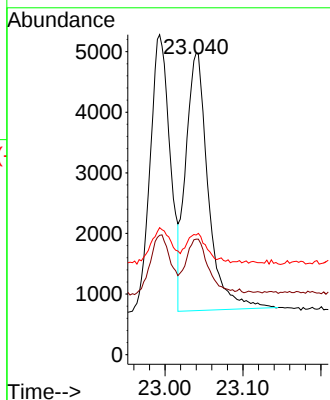
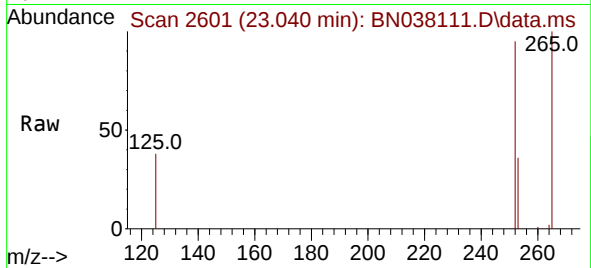




#38  
Benzo(k)fluoranthene  
Concen: 0.096 ng  
RT: 23.040 min Scan# 20  
Delta R.T. 0.012 min  
Lab File: BN038111.D  
Acq: 28 Oct 2025 13:00

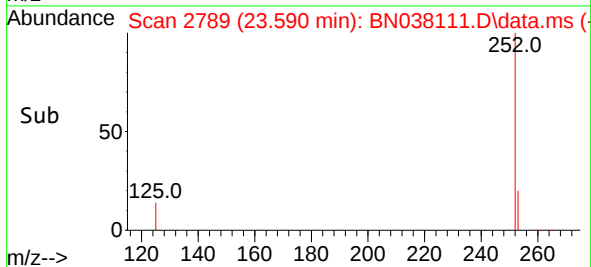
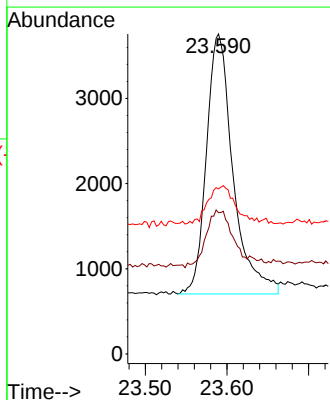
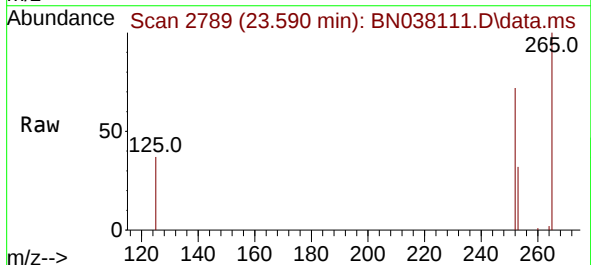
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SSTDICC0.1

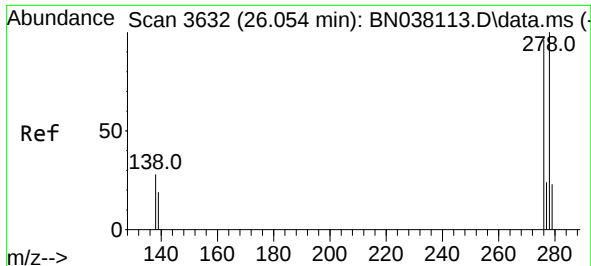
Tgt Ion:252 Resp: 8515  
Ion Ratio Lower Upper  
252 100  
253 38.3 21.2 31.8#  
125 39.7 14.6 22.0#



#39  
Benzo(a)pyrene  
Concen: 0.098 ng  
RT: 23.590 min Scan# 2789  
Delta R.T. 0.012 min  
Lab File: BN038111.D  
Acq: 28 Oct 2025 13:00

Tgt Ion:252 Resp: 6927  
Ion Ratio Lower Upper  
252 100  
253 44.2 23.1 34.7#  
125 51.6 18.6 28.0#

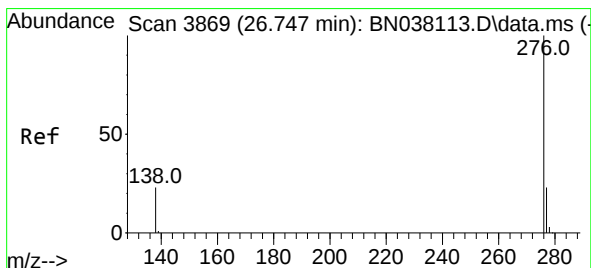
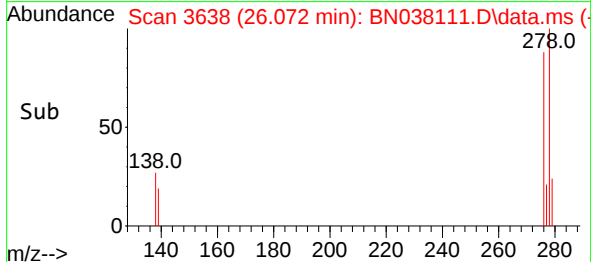
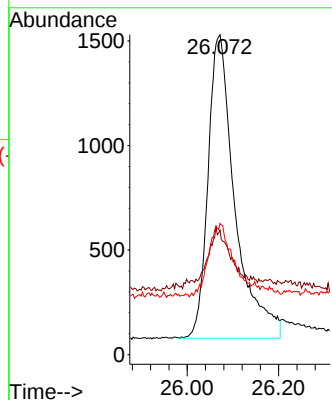
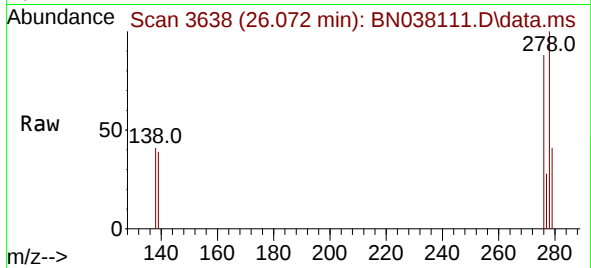




#40  
Dibenzo(a,h)anthracene  
Concen: 0.091 ng  
RT: 26.072 min Scan# 30  
Delta R.T. 0.023 min  
Lab File: BN038111.D  
Acq: 28 Oct 2025 13:00

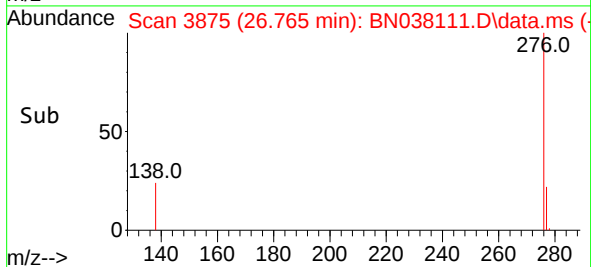
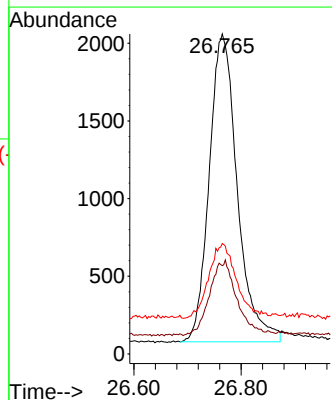
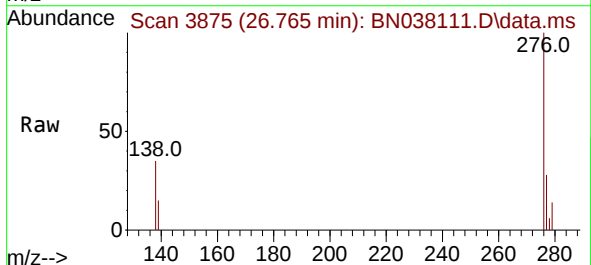
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

Tgt Ion:278 Resp: 5922  
Ion Ratio Lower Upper  
278 100  
139 38.9 17.6 26.4#  
279 41.0 22.6 33.8#



#41  
Benzo(g,h,i)perylene  
Concen: 0.097 ng  
RT: 26.765 min Scan# 3875  
Delta R.T. 0.015 min  
Lab File: BN038111.D  
Acq: 28 Oct 2025 13:00

Tgt Ion:276 Resp: 7227  
Ion Ratio Lower Upper  
276 100  
277 27.6 19.7 29.5  
138 34.5 20.2 30.4#



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN102825\  
 Data File : BN038112.D  
 Acq On : 28 Oct 2025 13:36  
 Operator : RC/JU  
 Sample : SSTDICC0.2  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC0.2

Quant Time: Oct 28 17:31:38 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN102825.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Oct 28 17:15:13 2025  
 Response via : Initial Calibration

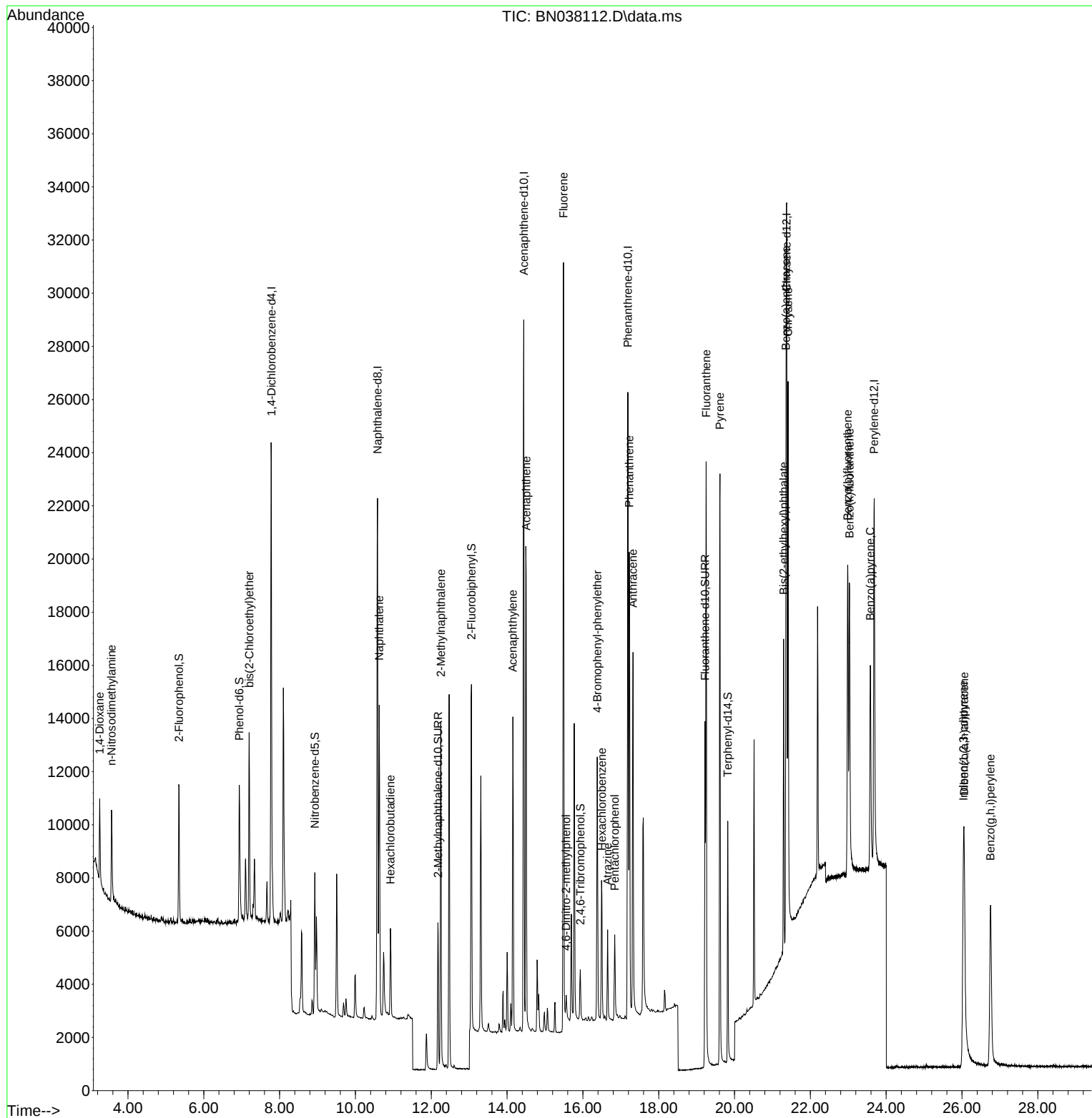
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.782  | 152  | 9322     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.584 | 136  | 28183    | 0.400 | ng    | 0.01     |
| 13) Acenaphthene-d10          | 14.441 | 164  | 15941    | 0.400 | ng    | 0.01     |
| 19) Phenanthrene-d10          | 17.186 | 188  | 31512    | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 21.375 | 240  | 23080    | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.683 | 264  | 20598    | 0.400 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.348  | 112  | 4536     | 0.207 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.937  | 99   | 5284     | 0.198 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.929  | 82   | 4403     | 0.194 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 12.177 | 152  | 8012     | 0.199 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.932 | 330  | 1201     | 0.183 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 13.062 | 172  | 13145    | 0.206 | ng    | 0.01     |
| 27) Fluoranthene-d10          | 19.225 | 212  | 15247    | 0.192 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.824 | 244  | 10170    | 0.203 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
|                               |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.254  | 88   | 2078     | 0.216 | ng    | 95       |
| 3) n-Nitrosodimethylamine     | 3.564  | 42   | 2463     | 0.199 | ng    | # 98     |
| 6) bis(2-Chloroethyl)ether    | 7.197  | 93   | 5312     | 0.202 | ng    | 99       |
| 9) Naphthalene                | 10.626 | 128  | 15455    | 0.199 | ng    | 98       |
| 10) Hexachlorobutadiene       | 10.925 | 225  | 2632     | 0.201 | ng    | # 97     |
| 12) 2-Methylnaphthalene       | 12.253 | 142  | 10027    | 0.194 | ng    | 99       |
| 16) Acenaphthylene            | 14.152 | 152  | 13787    | 0.191 | ng    | 99       |
| 17) Acenaphthene              | 14.505 | 154  | 9898     | 0.196 | ng    | 100      |
| 18) Fluorene                  | 15.489 | 166  | 13019    | 0.197 | ng    | 100      |
| 20) 4,6-Dinitro-2-methylph... | 15.560 | 198  | 639      | 0.238 | ng    | # 40     |
| 21) 4-Bromophenyl-phenylether | 16.379 | 248  | 3948     | 0.191 | ng    | 98       |
| 22) Hexachlorobenzene         | 16.503 | 284  | 4594     | 0.196 | ng    | 99       |
| 23) Atrazine                  | 16.652 | 200  | 2774     | 0.183 | ng    | 98       |
| 24) Pentachlorophenol         | 16.838 | 266  | 1769     | 0.175 | ng    | 98       |
| 25) Phenanthrene              | 17.223 | 178  | 19374    | 0.194 | ng    | 100      |
| 26) Anthracene                | 17.322 | 178  | 16201    | 0.185 | ng    | 99       |
| 28) Fluoranthene              | 19.253 | 202  | 21232    | 0.190 | ng    | 99       |
| 30) Pyrene                    | 19.615 | 202  | 21387    | 0.205 | ng    | 100      |
| 32) Benzo(a)anthracene        | 21.358 | 228  | 15917    | 0.193 | ng    | 99       |
| 33) Chrysene                  | 21.411 | 228  | 18301    | 0.205 | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 21.295 | 149  | 10496    | 0.242 | ng    | 100      |
| 36) Indeno(1,2,3-cd)pyrene    | 26.039 | 276  | 15575    | 0.184 | ng    | 99       |
| 37) Benzo(b)fluoranthene      | 22.984 | 252  | 15888    | 0.180 | ng    | # 90     |
| 38) Benzo(k)fluoranthene      | 23.031 | 252  | 16371    | 0.185 | ng    | # 91     |
| 39) Benzo(a)pyrene            | 23.584 | 252  | 13137    | 0.186 | ng    | # 84     |
| 40) Dibenzo(a,h)anthracene    | 26.057 | 278  | 11845    | 0.182 | ng    | 95       |
| 41) Benzo(g,h,i)perylene      | 26.753 | 276  | 14055    | 0.189 | ng    | 95       |
| -----                         |        |      |          |       |       |          |

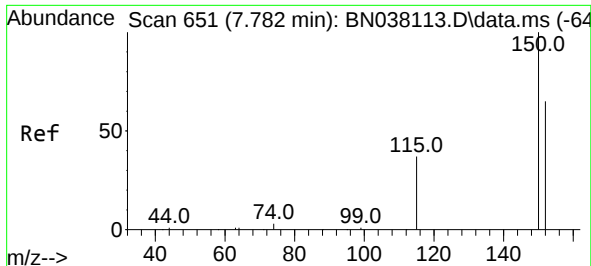
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN102825\  
Data File : BN038112.D  
Acq On : 28 Oct 2025 13:36  
Operator : RC/JU  
Sample : SSTDICC0.2  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

Quant Time: Oct 28 17:31:38 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN102825.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Oct 28 17:15:13 2025  
Response via : Initial Calibration

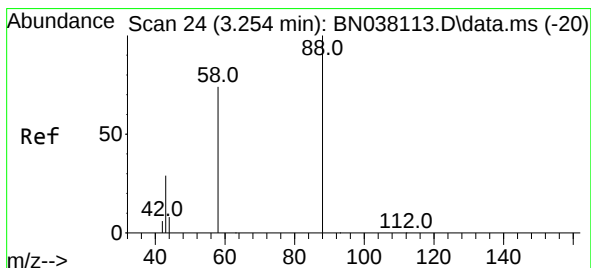
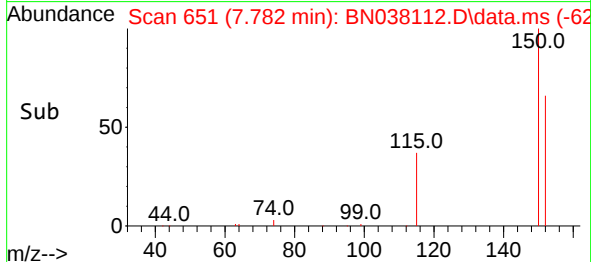
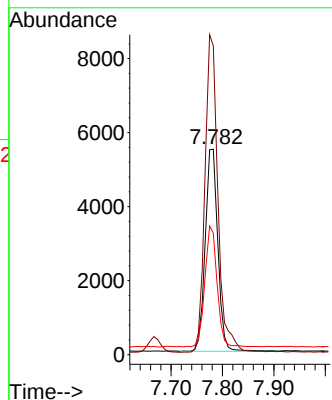
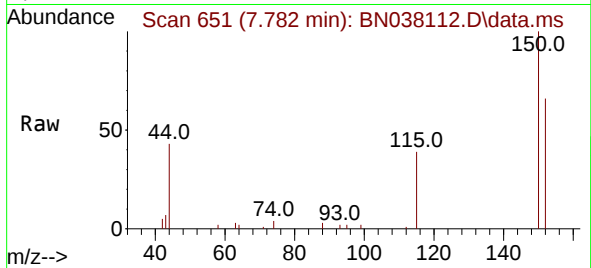




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 0.400 ng  
 RT: 7.782 min Scan# 61  
 Delta R.T. 0.007 min  
 Lab File: BN038112.D  
 Acq: 28 Oct 2025 13:36

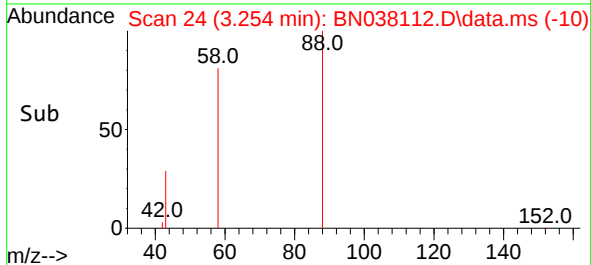
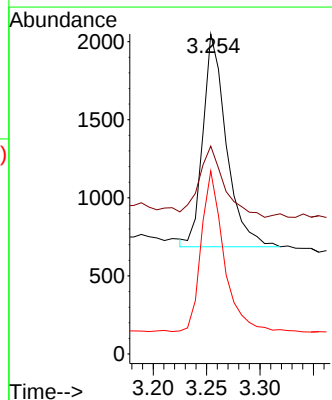
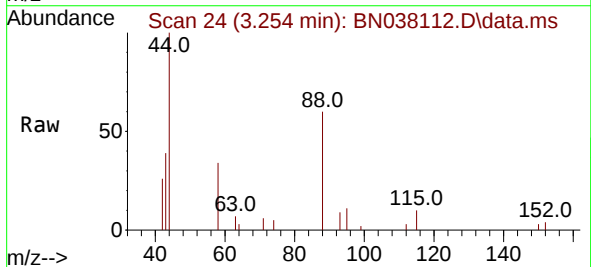
Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC0.2

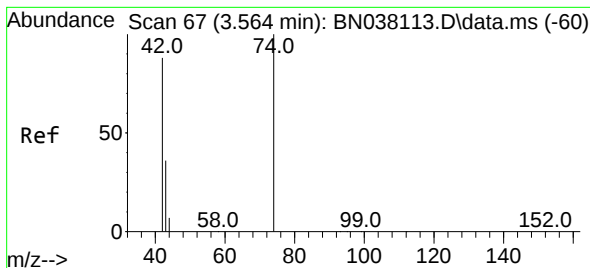
Tgt Ion:152 Resp: 9322  
 Ion Ratio Lower Upper  
 152 100  
 150 150.4 122.3 183.5  
 115 59.1 47.4 71.0



#2  
 1,4-Dioxane  
 Concen: 0.216 ng  
 RT: 3.254 min Scan# 24  
 Delta R.T. 0.000 min  
 Lab File: BN038112.D  
 Acq: 28 Oct 2025 13:36

Tgt Ion: 88 Resp: 2078  
 Ion Ratio Lower Upper  
 88 100  
 43 36.3 24.3 36.5  
 58 73.3 60.4 90.6





#3

n-Nitrosodimethylamine

Concen: 0.199 ng

RT: 3.564 min Scan# 61

Delta R.T. 0.007 min

Lab File: BN038112.D

Acq: 28 Oct 2025 13:36

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2

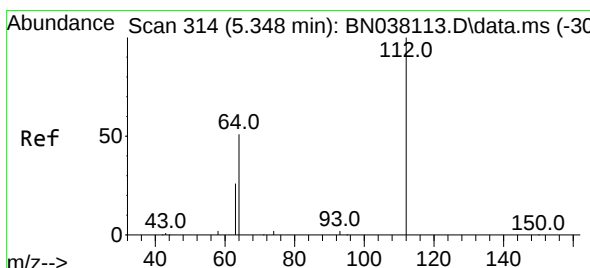
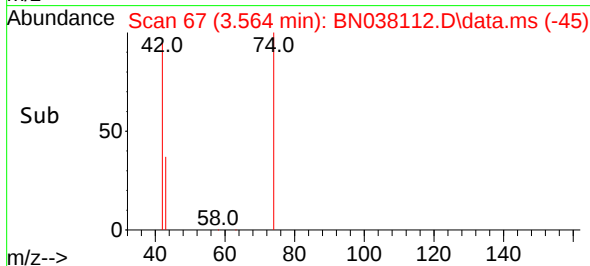
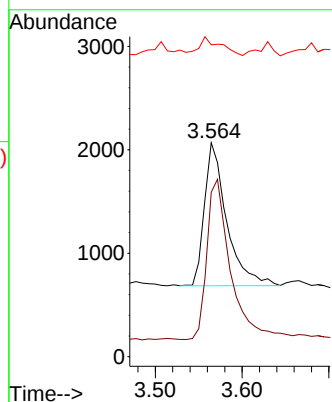
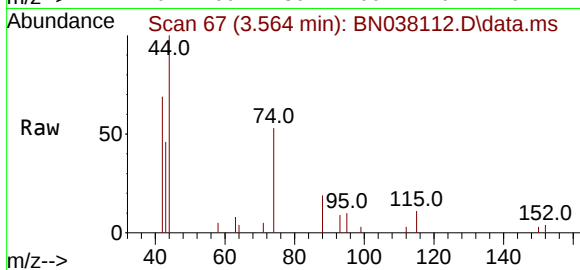
Tgt Ion: 42 Resp: 2463

Ion Ratio Lower Upper

42 100

74 121.8 96.8 145.2

44 12.3 5.3 7.9#



#4

2-Fluorophenol

Concen: 0.207 ng

RT: 5.348 min Scan# 314

Delta R.T. 0.000 min

Lab File: BN038112.D

Acq: 28 Oct 2025 13:36

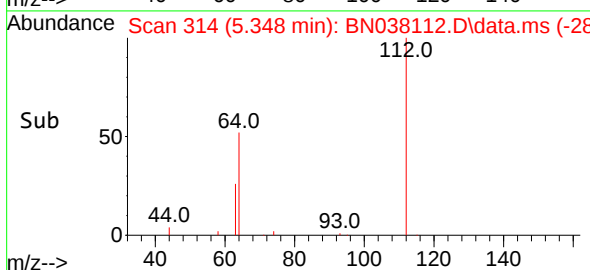
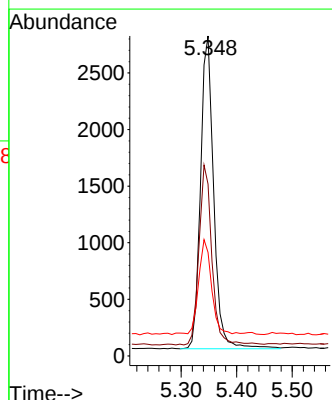
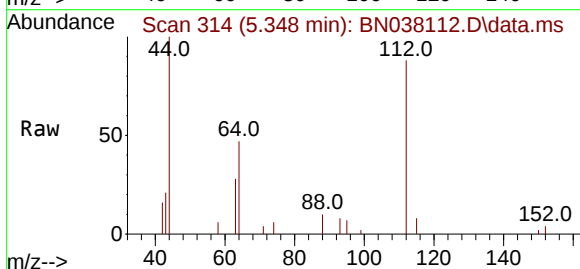
Tgt Ion: 112 Resp: 4536

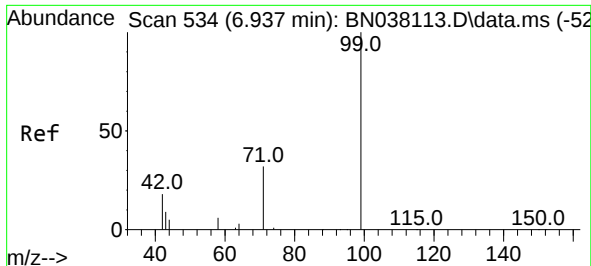
Ion Ratio Lower Upper

112 100

64 56.6 45.4 68.0

63 30.2 23.2 34.8

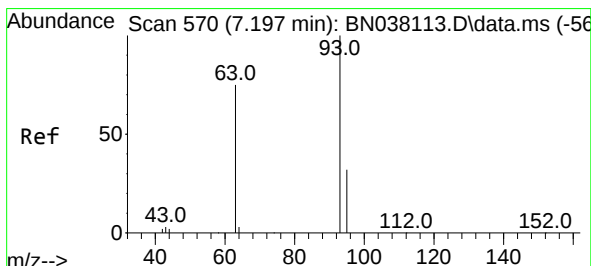
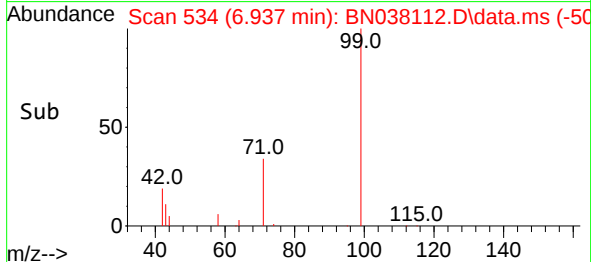
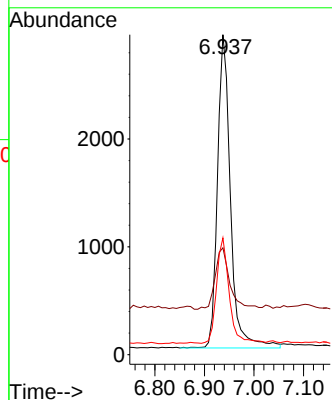
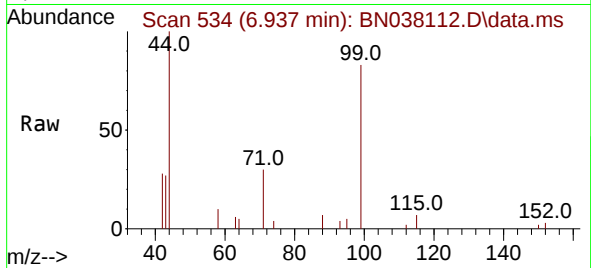




#5  
Phenol-d6  
Concen: 0.198 ng  
RT: 6.937 min Scan# 51  
Delta R.T. 0.000 min  
Lab File: BN038112.D  
Acq: 28 Oct 2025 13:36

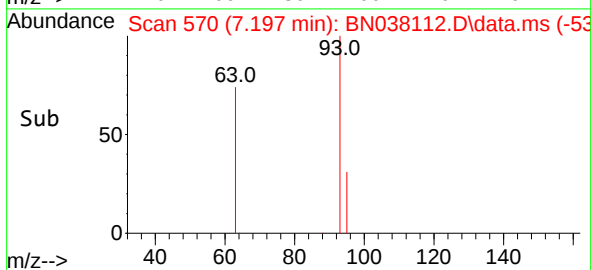
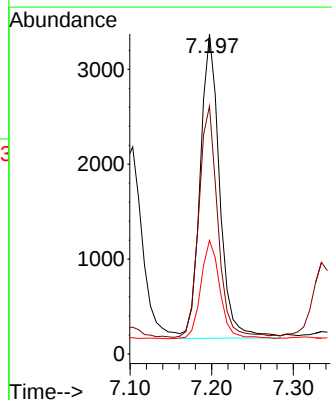
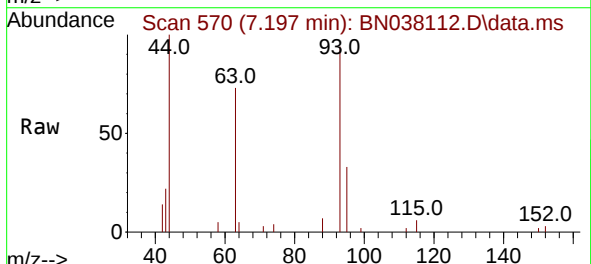
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BNA\_N  
ClientSampleId :  
SSTDICC0.2

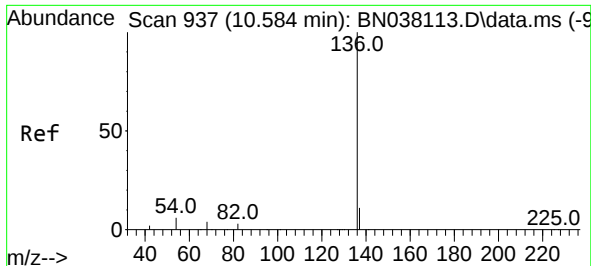
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 99    | Resp: | 5284  |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 22.1  | 16.6  | 24.8  |
| 71       | 32.7  | 25.4  | 38.2  |



#6  
bis(2-Chloroethyl)ether  
Concen: 0.202 ng  
RT: 7.197 min Scan# 570  
Delta R.T. 0.000 min  
Lab File: BN038112.D  
Acq: 28 Oct 2025 13:36

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 93    | Resp: | 5312  |
| Ion      | Ratio | Lower | Upper |
| 93       | 100   |       |       |
| 63       | 74.3  | 59.3  | 88.9  |
| 95       | 32.2  | 25.2  | 37.8  |

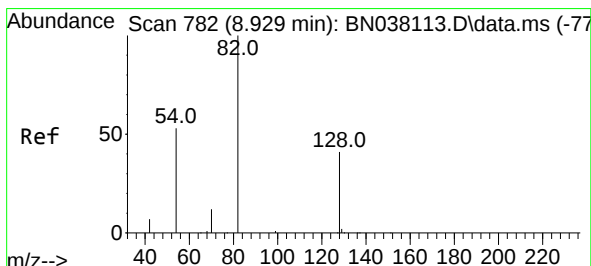
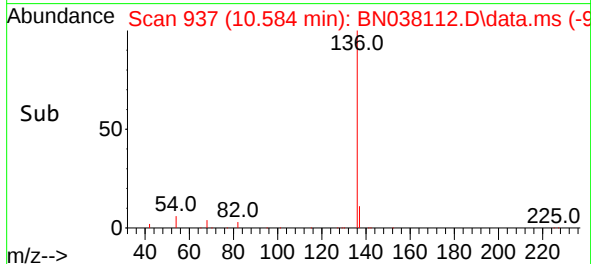
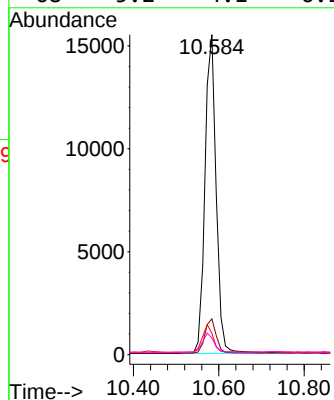
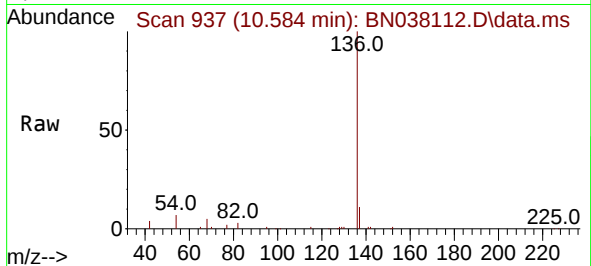




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.584 min Scan# 91  
Delta R.T. 0.011 min  
Lab File: BN038112.D  
Acq: 28 Oct 2025 13:36

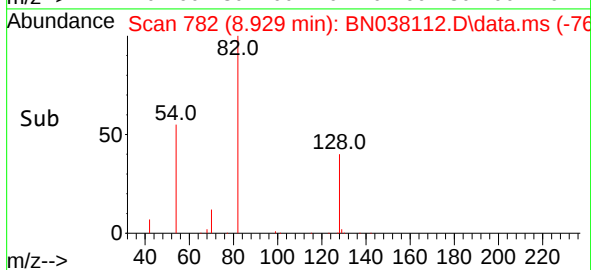
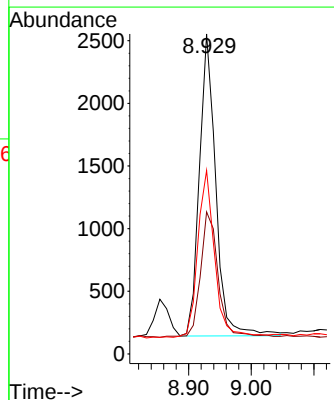
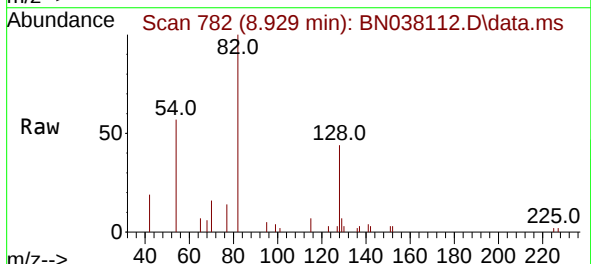
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

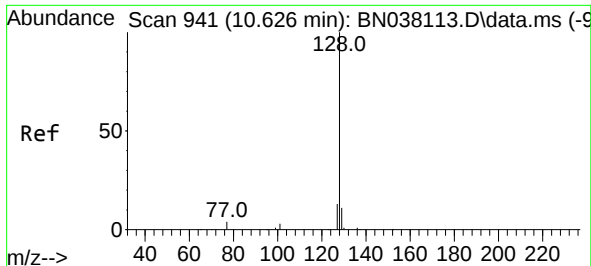
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|-----------|-------|-------|-------|
| Tgt Ion:  | 136   | Resp: | 28183 |
| Ion Ratio | Lower | Upper |       |
| 136       | 100   |       |       |
| 137       | 11.2  | 9.0   | 13.4  |
| 54        | 6.6   | 5.2   | 7.8   |
| 68        | 5.2   | 4.1   | 6.1   |



#8  
Nitrobenzene-d5  
Concen: 0.194 ng  
RT: 8.929 min Scan# 782  
Delta R.T. 0.000 min  
Lab File: BN038112.D  
Acq: 28 Oct 2025 13:36

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 82    | Resp: | 4403 |
| Ion Ratio | Lower | Upper |      |
| 82        | 100   |       |      |
| 128       | 44.4  | 34.1  | 51.1 |
| 54        | 57.3  | 43.5  | 65.3 |

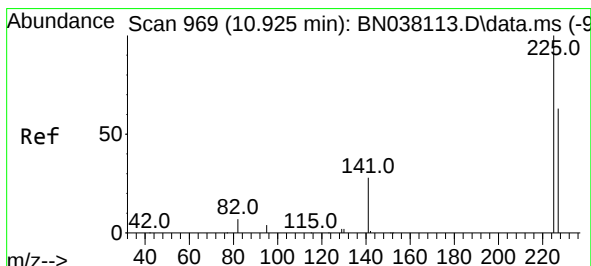
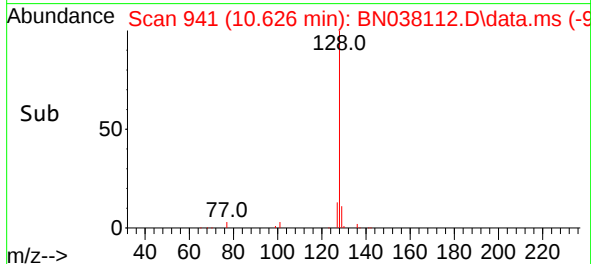
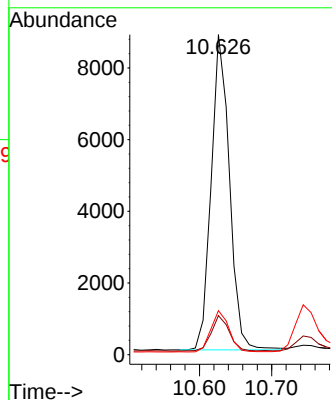
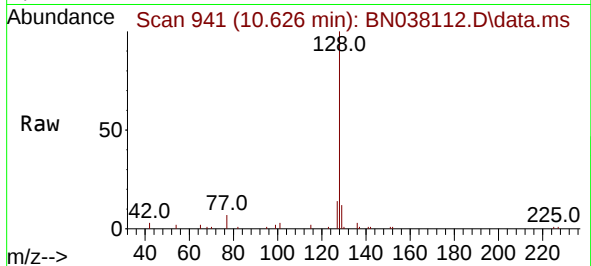




#9  
Naphthalene  
Concen: 0.199 ng  
RT: 10.626 min Scan# 941  
Delta R.T. 0.000 min  
Lab File: BN038112.D  
Acq: 28 Oct 2025 13:36

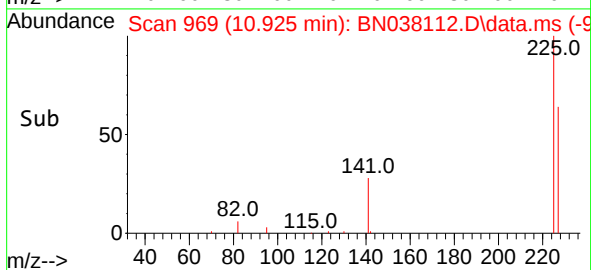
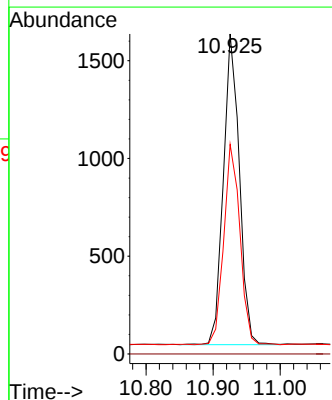
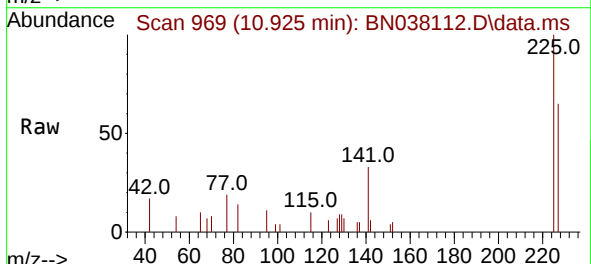
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SSTDICC0.2

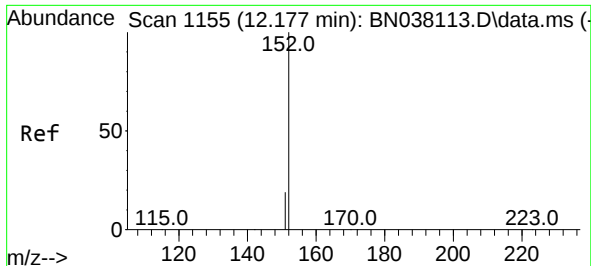
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|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 15455 |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 129      | 12.2  | 9.1   | 13.7  |
| 127      | 13.8  | 10.5  | 15.7  |



#10  
Hexachlorobutadiene  
Concen: 0.201 ng  
RT: 10.925 min Scan# 969  
Delta R.T. 0.000 min  
Lab File: BN038112.D  
Acq: 28 Oct 2025 13:36

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 225   | Resp: | 2632  |
| Ion      | Ratio | Lower | Upper |
| 225      | 100   |       |       |
| 223      | 0.0   | 0.0   | 0.0   |
| 227      | 65.1  | 50.3  | 75.5  |

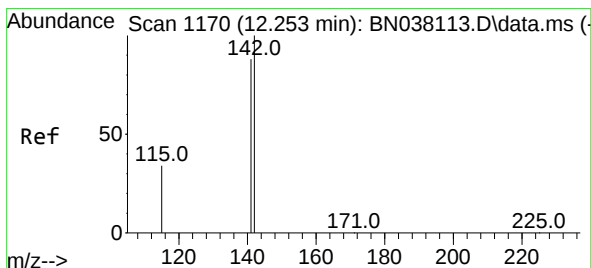
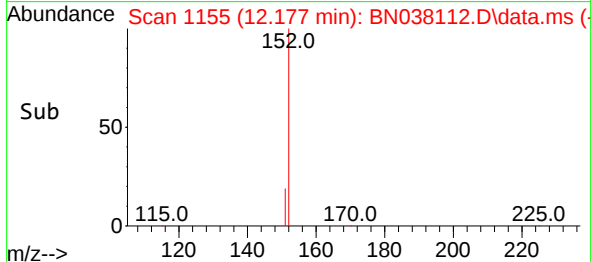
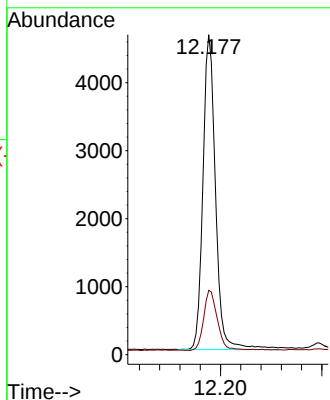
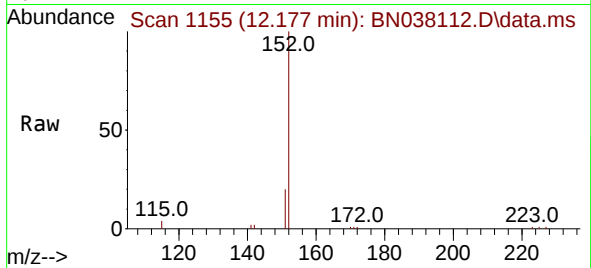




#11  
2-Methylnaphthalene-d10  
Concen: 0.199 ng  
RT: 12.177 min Scan# 1155  
Delta R.T. 0.000 min  
Lab File: BN038112.D  
Acq: 28 Oct 2025 13:36

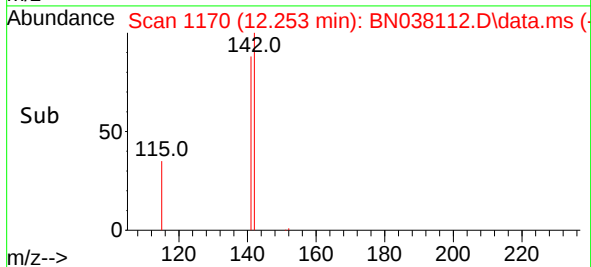
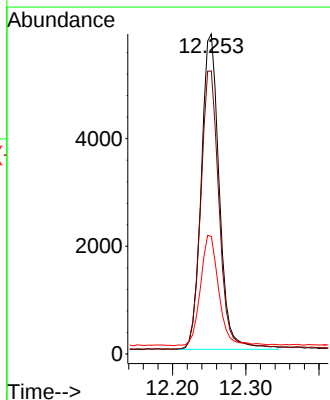
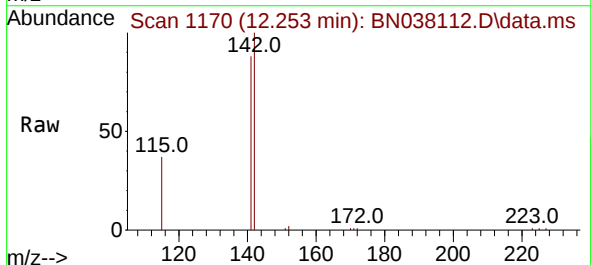
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

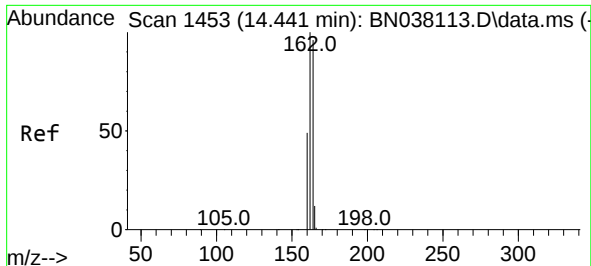
Tgt Ion:152 Resp: 8012  
Ion Ratio Lower Upper  
152 100  
151 20.7 16.8 25.2



#12  
2-Methylnaphthalene  
Concen: 0.194 ng  
RT: 12.253 min Scan# 1170  
Delta R.T. 0.005 min  
Lab File: BN038112.D  
Acq: 28 Oct 2025 13:36

Tgt Ion:142 Resp: 10027  
Ion Ratio Lower Upper  
142 100  
141 88.4 70.3 105.5  
115 36.8 27.8 41.6

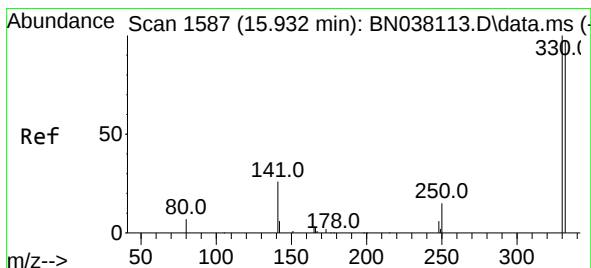
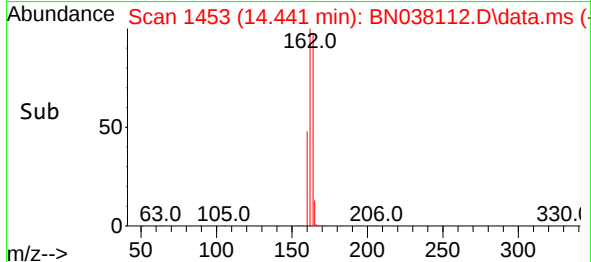
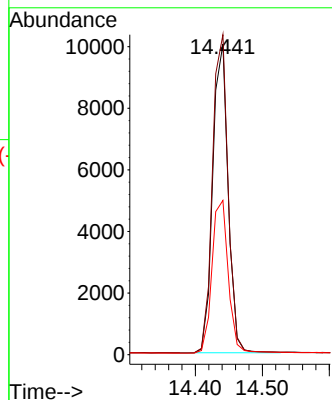
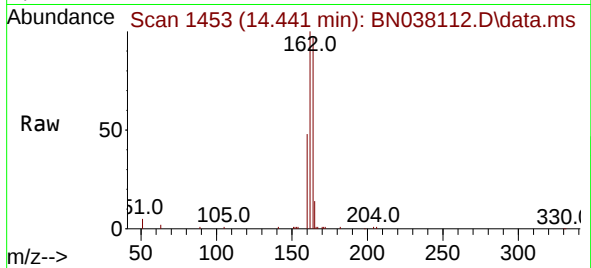




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.441 min Scan# 1453  
Delta R.T. 0.011 min  
Lab File: BN038112.D  
Acq: 28 Oct 2025 13:36

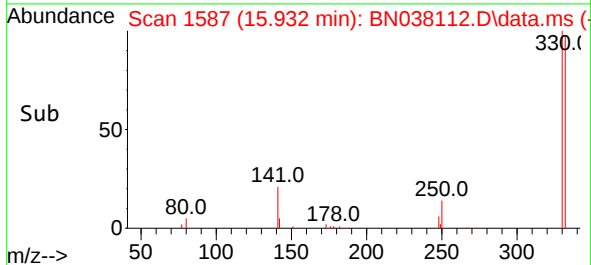
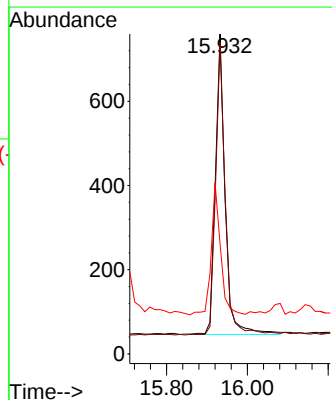
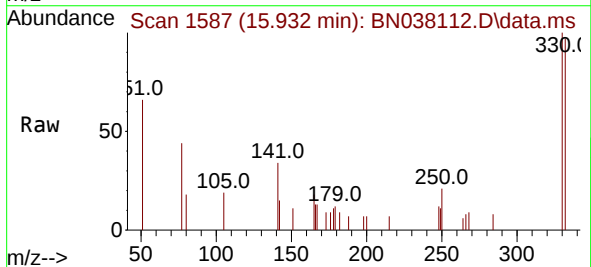
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

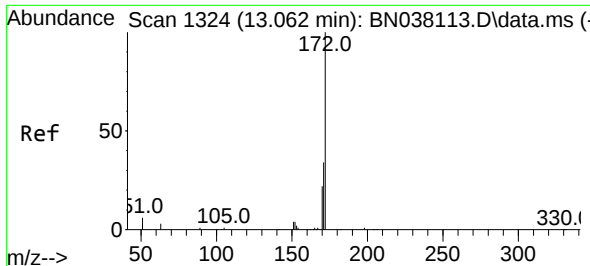
Tgt Ion:164 Resp: 15941  
Ion Ratio Lower Upper  
164 100  
162 103.1 83.0 124.4  
160 49.6 40.7 61.1



#14  
2,4,6-Tribromophenol  
Concen: 0.183 ng  
RT: 15.932 min Scan# 1587  
Delta R.T. 0.000 min  
Lab File: BN038112.D  
Acq: 28 Oct 2025 13:36

Tgt Ion:330 Resp: 1201  
Ion Ratio Lower Upper  
330 100  
332 96.6 76.6 114.8  
141 41.5 34.1 51.1

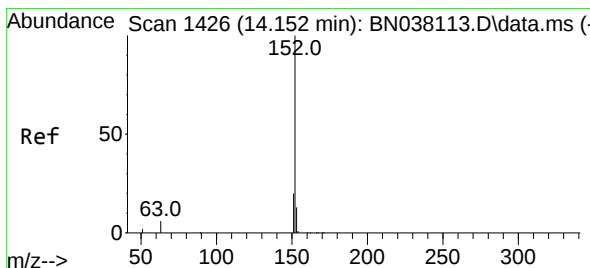
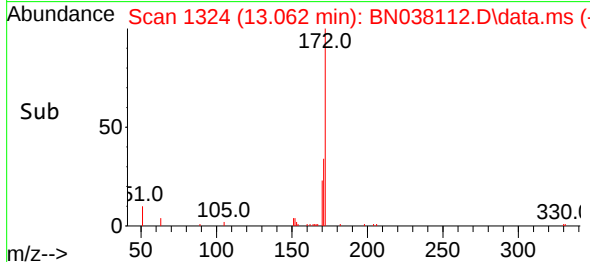
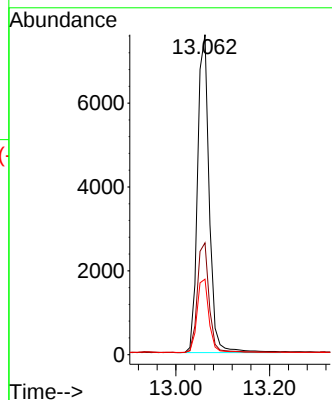
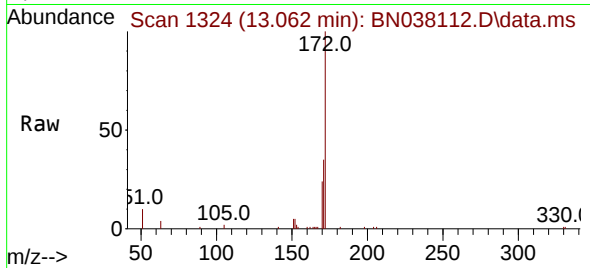




#15  
2-Fluorobiphenyl  
Concen: 0.206 ng  
RT: 13.062 min Scan# 1324  
Delta R.T. 0.011 min  
Lab File: BN038112.D  
Acq: 28 Oct 2025 13:36

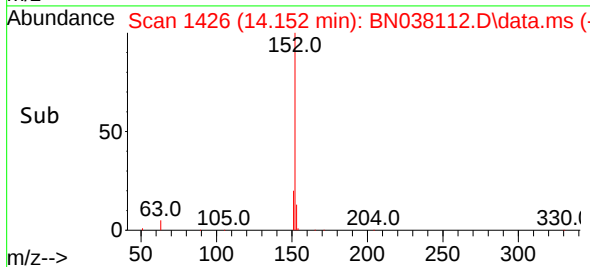
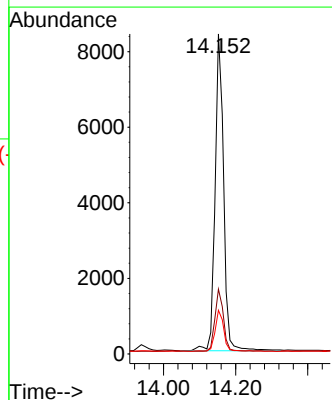
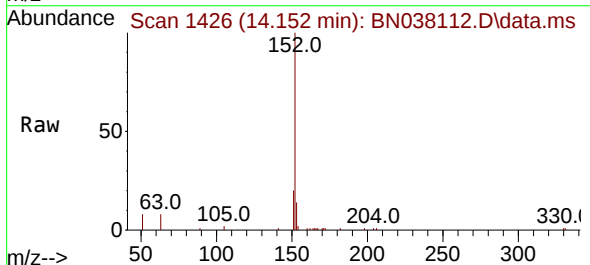
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

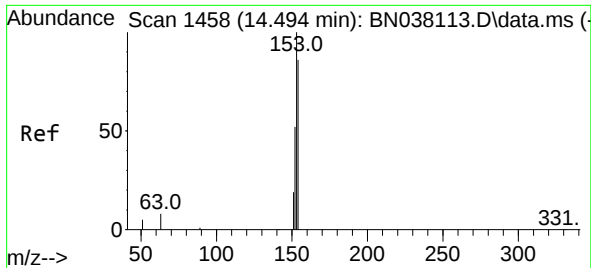
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 172   | Resp: | 13145 |
| Ion Ratio | Lower | Upper |       |
| 172       | 100   |       |       |
| 171       | 35.0  | 27.8  | 41.6  |
| 170       | 23.6  | 18.1  | 27.1  |



#16  
Acenaphthylene  
Concen: 0.191 ng  
RT: 14.152 min Scan# 1426  
Delta R.T. 0.000 min  
Lab File: BN038112.D  
Acq: 28 Oct 2025 13:36

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 152   | Resp: | 13787 |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 19.6  | 15.8  | 23.8  |
| 153       | 13.0  | 10.2  | 15.2  |

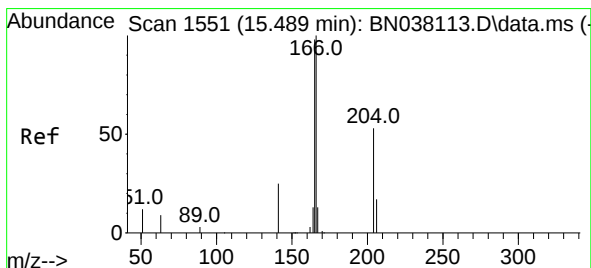
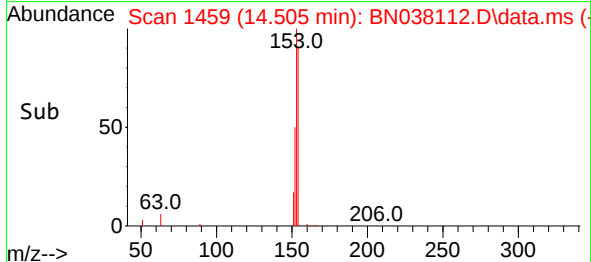
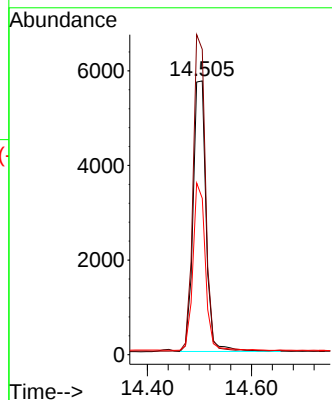
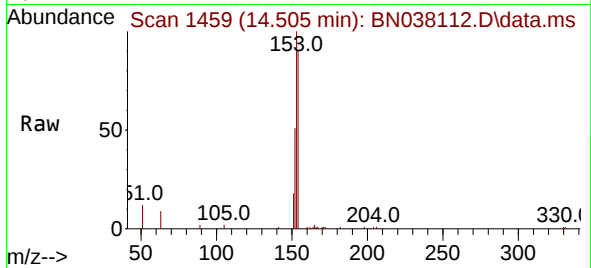




#17  
Acenaphthene  
Concen: 0.196 ng  
RT: 14.505 min Scan# 1459  
Delta R.T. 0.011 min  
Lab File: BN038112.D  
Acq: 28 Oct 2025 13:36

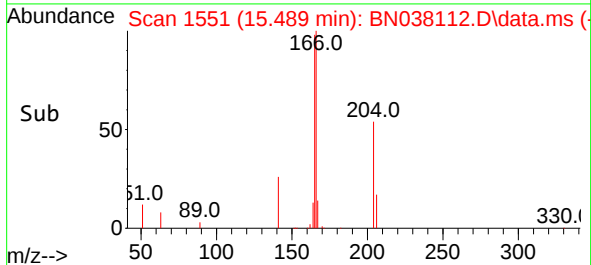
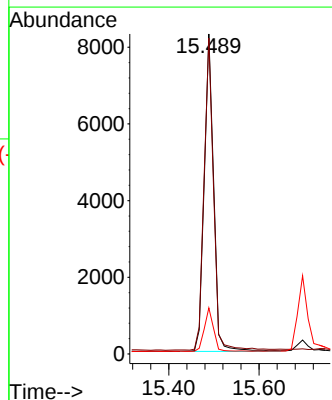
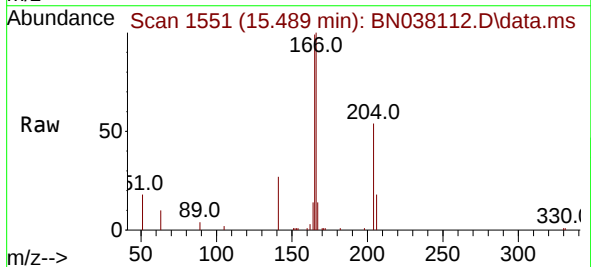
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

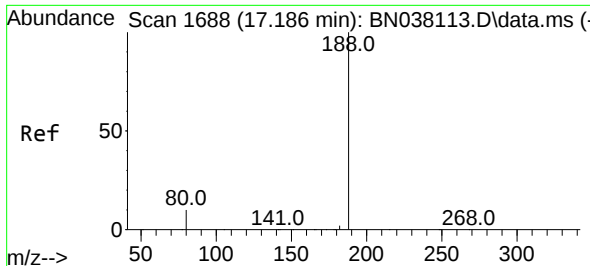
Tgt Ion:154 Resp: 9898  
Ion Ratio Lower Upper  
154 100  
153 112.7 90.0 135.0  
152 58.9 47.3 70.9



#18  
Fluorene  
Concen: 0.197 ng  
RT: 15.489 min Scan# 1551  
Delta R.T. -0.000 min  
Lab File: BN038112.D  
Acq: 28 Oct 2025 13:36

Tgt Ion:166 Resp: 13019  
Ion Ratio Lower Upper  
166 100  
165 98.6 79.0 118.4  
167 13.4 10.7 16.1

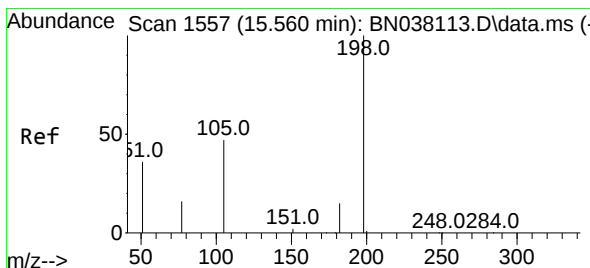
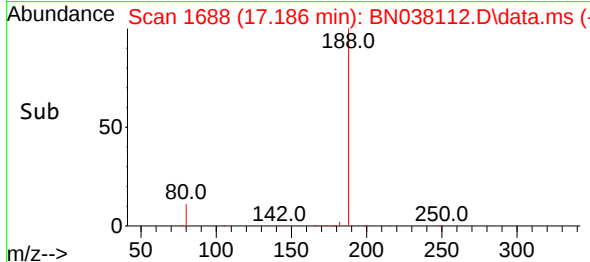
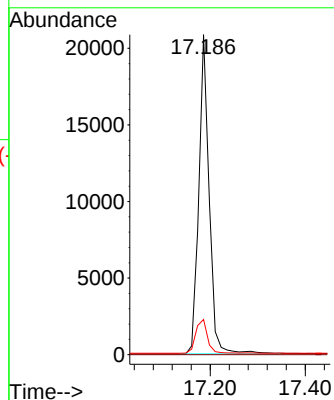
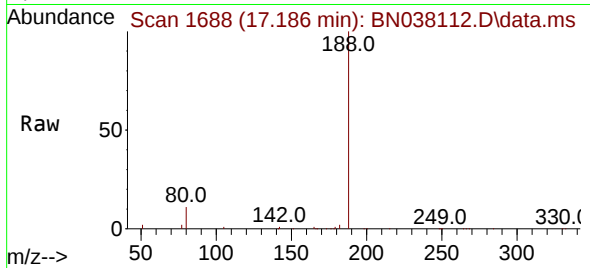




#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 17.186 min Scan# 1688  
Delta R.T. 0.000 min  
Lab File: BN038112.D  
Acq: 28 Oct 2025 13:36

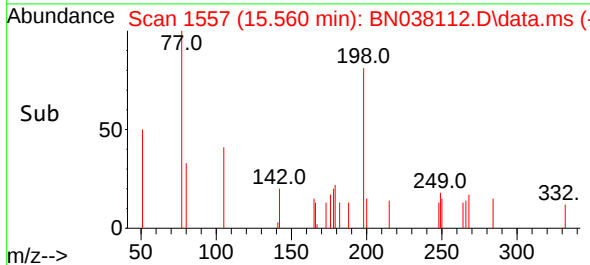
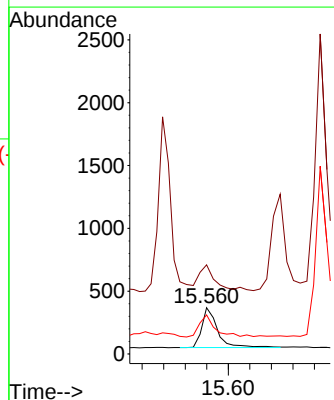
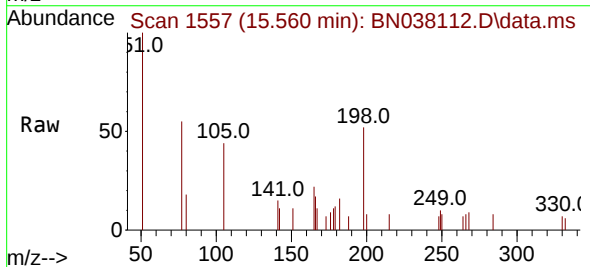
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

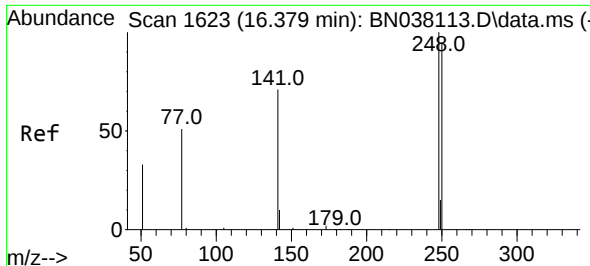
Tgt Ion:188 Resp: 31512  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 11.0 8.6 13.0



#20  
4,6-Dinitro-2-methylphenol  
Concen: 0.238 ng  
RT: 15.560 min Scan# 1557  
Delta R.T. -0.000 min  
Lab File: BN038112.D  
Acq: 28 Oct 2025 13:36

Tgt Ion:198 Resp: 639  
Ion Ratio Lower Upper  
198 100  
51 192.9 88.9 133.3#  
105 84.5 49.2 73.8#

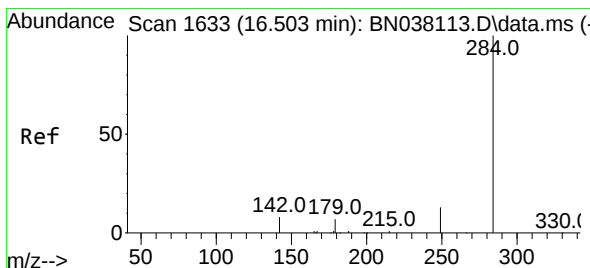
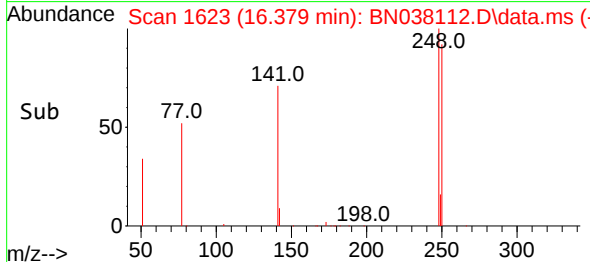
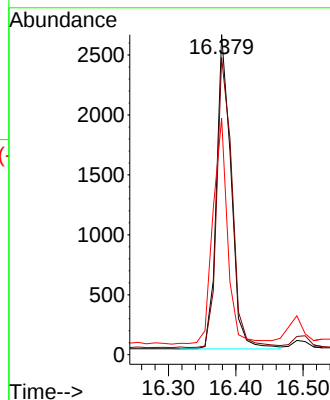
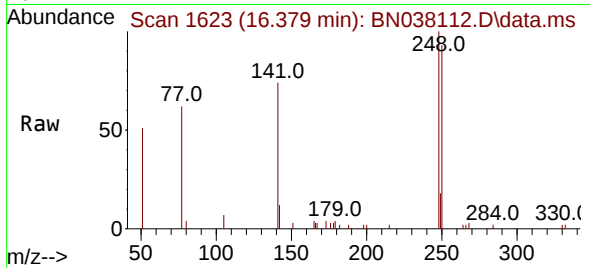




#21  
4-Bromophenyl-phenylether  
Concen: 0.191 ng  
RT: 16.379 min Scan# 1623  
Delta R.T. 0.000 min  
Lab File: BN038112.D  
Acq: 28 Oct 2025 13:36

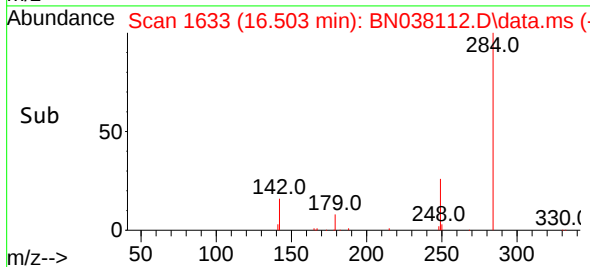
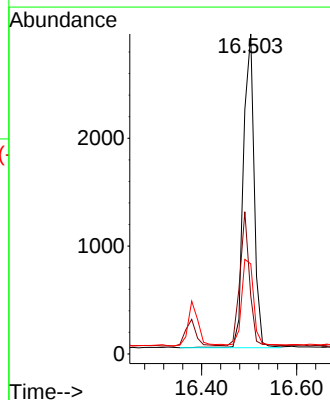
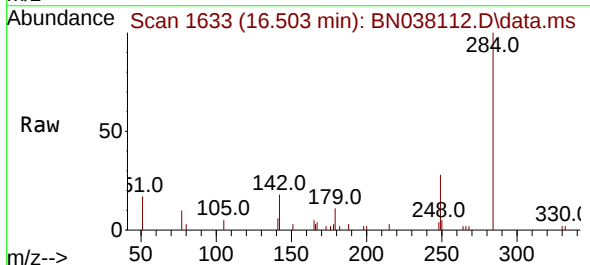
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

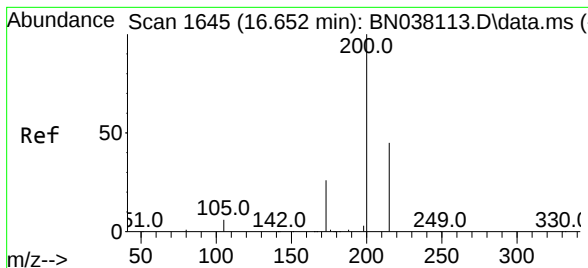
Tgt Ion:248 Resp: 3948  
Ion Ratio Lower Upper  
248 100  
250 92.8 76.2 114.2  
141 73.9 57.6 86.4



#22  
Hexachlorobenzene  
Concen: 0.196 ng  
RT: 16.503 min Scan# 1633  
Delta R.T. 0.000 min  
Lab File: BN038112.D  
Acq: 28 Oct 2025 13:36

Tgt Ion:284 Resp: 4594  
Ion Ratio Lower Upper  
284 100  
142 38.0 30.5 45.7  
249 30.1 23.5 35.3





#23

Atrazine

Concen: 0.183 ng

RT: 16.652 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN038112.D

Acq: 28 Oct 2025 13:36

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2

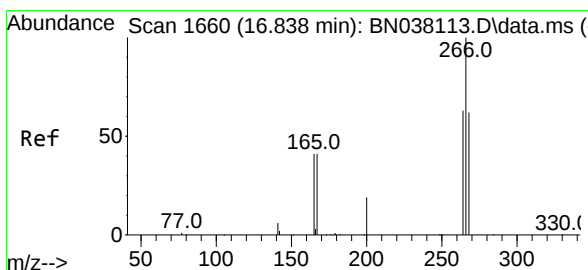
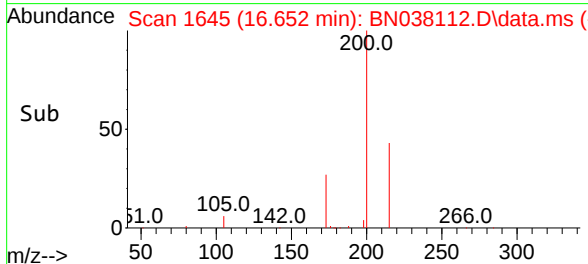
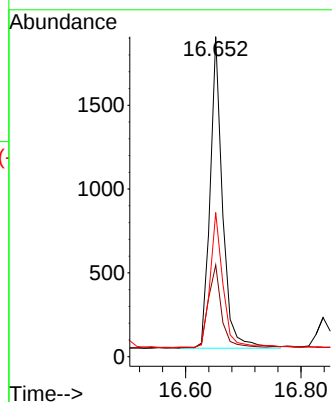
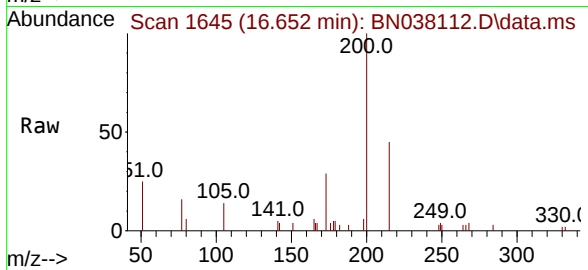
Tgt Ion:200 Resp: 2774

Ion Ratio Lower Upper

200 100

173 28.7 21.4 32.2

215 45.0 36.7 55.1



#24

Pentachlorophenol

Concen: 0.175 ng

RT: 16.838 min Scan# 1660

Delta R.T. 0.000 min

Lab File: BN038112.D

Acq: 28 Oct 2025 13:36

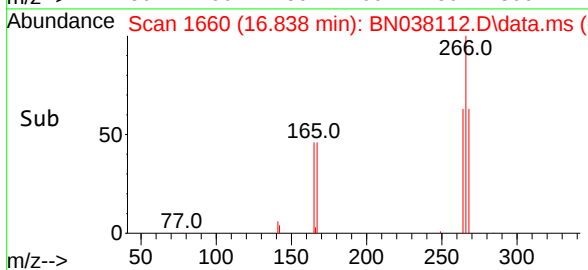
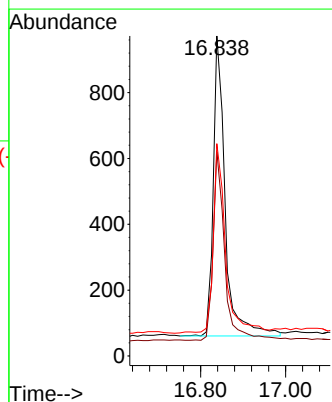
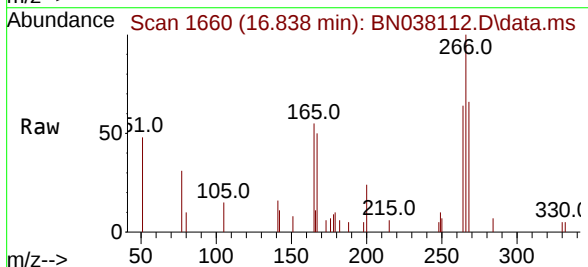
Tgt Ion:266 Resp: 1769

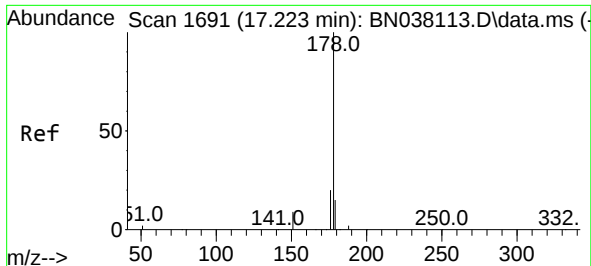
Ion Ratio Lower Upper

266 100

264 61.0 49.3 73.9

268 65.9 50.6 75.8

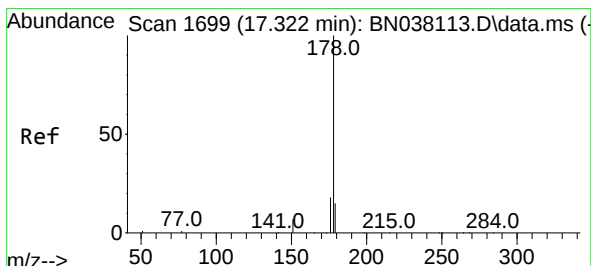
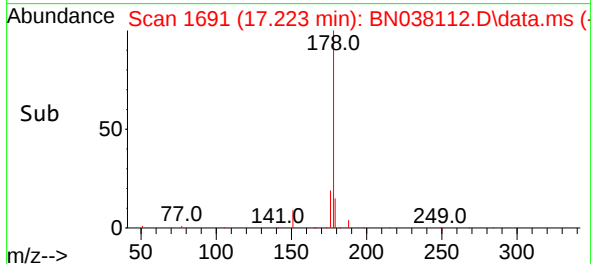
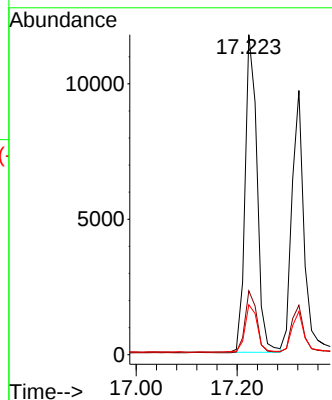
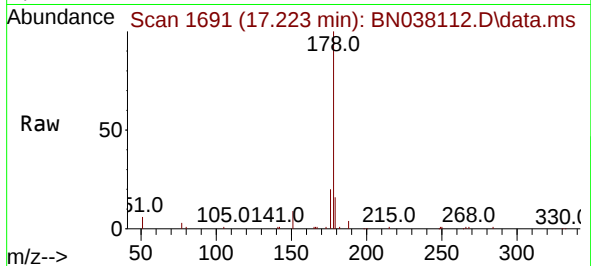




#25  
Phenanthrene  
Concen: 0.194 ng  
RT: 17.223 min Scan# 1691  
Delta R.T. 0.000 min  
Lab File: BN038112.D  
Acq: 28 Oct 2025 13:36

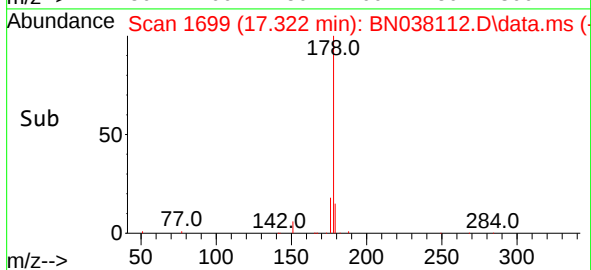
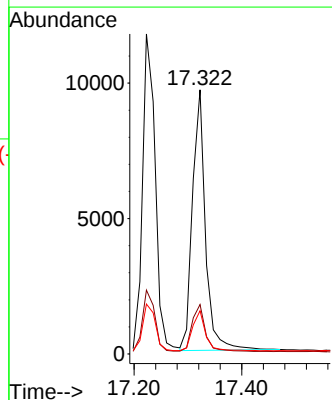
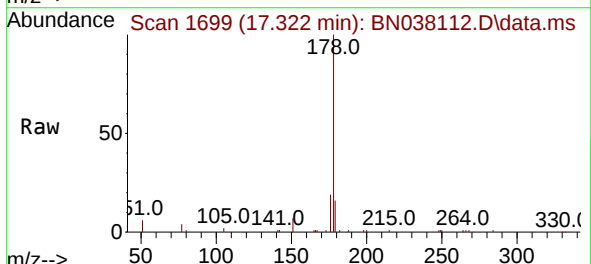
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

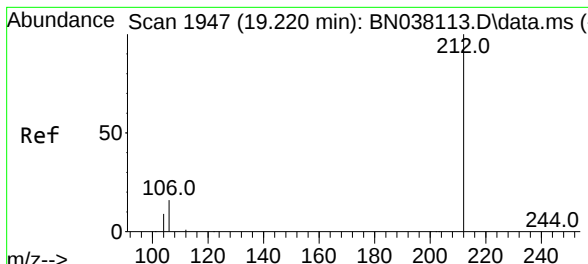
Tgt Ion:178 Resp: 19374  
Ion Ratio Lower Upper  
178 100  
176 19.2 15.5 23.3  
179 15.3 12.2 18.4



#26  
Anthracene  
Concen: 0.185 ng  
RT: 17.322 min Scan# 1699  
Delta R.T. 0.000 min  
Lab File: BN038112.D  
Acq: 28 Oct 2025 13:36

Tgt Ion:178 Resp: 16201  
Ion Ratio Lower Upper  
178 100  
176 18.8 14.9 22.3  
179 15.5 11.8 17.8

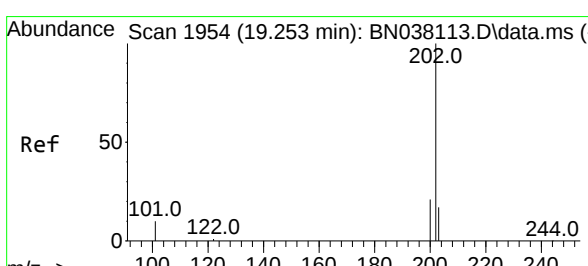
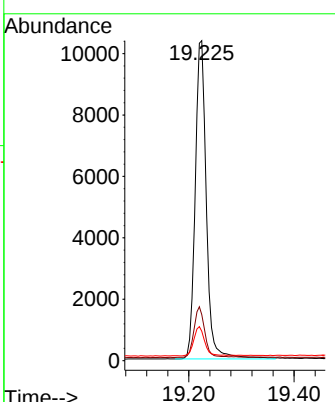
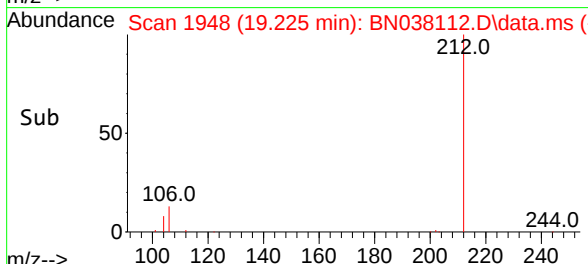
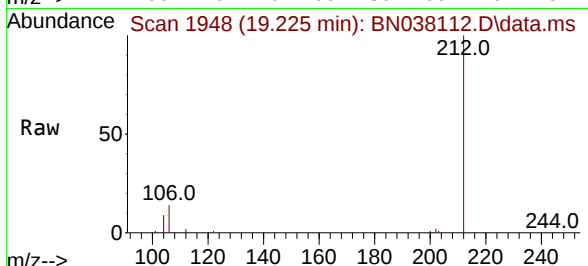




#27  
 Fluoranthene-d10  
 Concen: 0.192 ng  
 RT: 19.225 min Scan# 1948  
 Delta R.T. 0.005 min  
 Lab File: BN038112.D  
 Acq: 28 Oct 2025 13:36

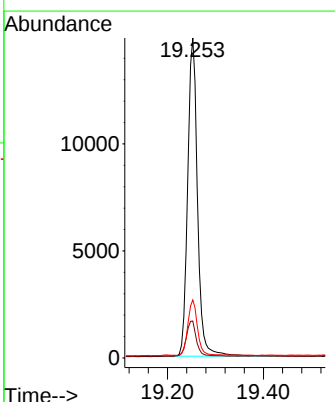
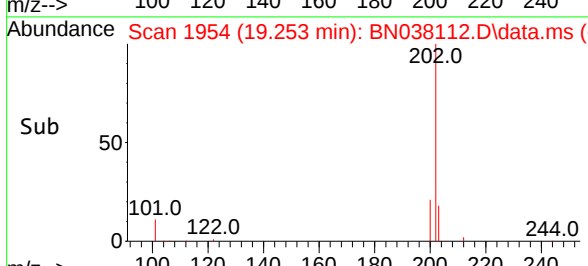
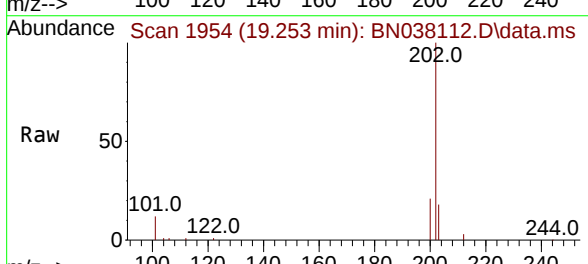
Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC0.2

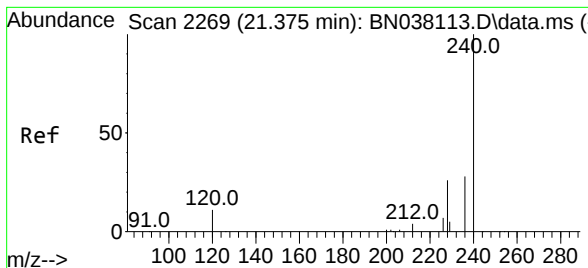
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 212   | Resp: | 15247 |
| Ion Ratio | Lower | Upper |       |
| 212       | 100   |       |       |
| 106       | 15.8  | 12.6  | 19.0  |
| 104       | 9.0   | 7.1   | 10.7  |



#28  
 Fluoranthene  
 Concen: 0.190 ng  
 RT: 19.253 min Scan# 1954  
 Delta R.T. 0.000 min  
 Lab File: BN038112.D  
 Acq: 28 Oct 2025 13:36

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 21232 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 11.6  | 9.4   | 14.2  |
| 203       | 17.2  | 13.4  | 20.2  |





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.375 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN038112.D

Acq: 28 Oct 2025 13:36

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2

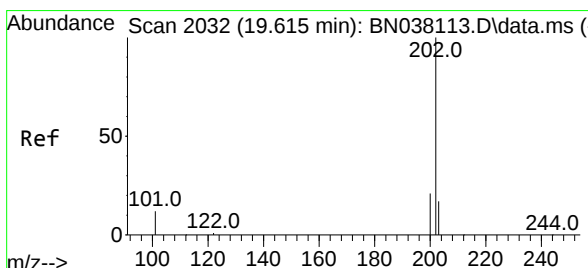
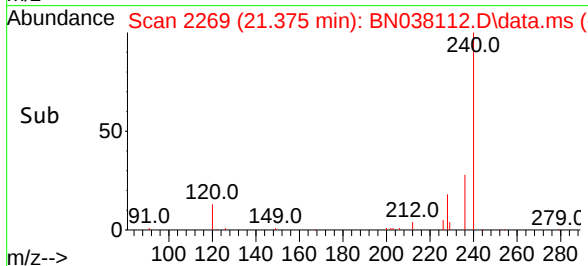
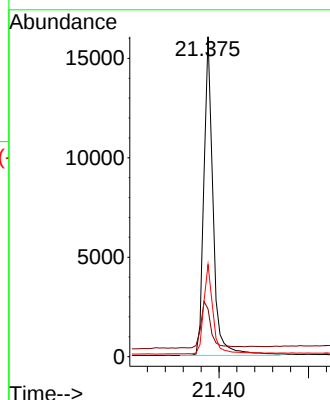
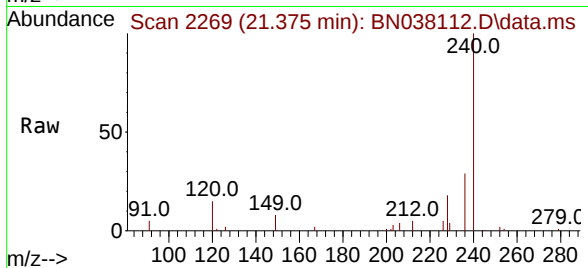
Tgt Ion:240 Resp: 23080

Ion Ratio Lower Upper

240 100

120 14.9 10.7 16.1

236 28.8 23.1 34.7



#30

Pyrene

Concen: 0.205 ng

RT: 19.615 min Scan# 2032

Delta R.T. 0.005 min

Lab File: BN038112.D

Acq: 28 Oct 2025 13:36

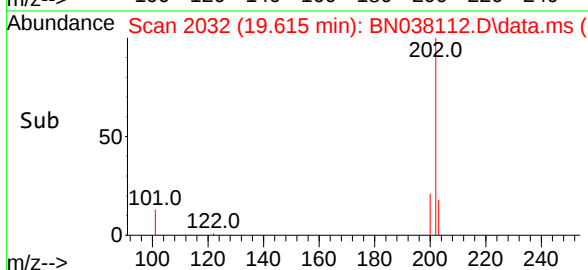
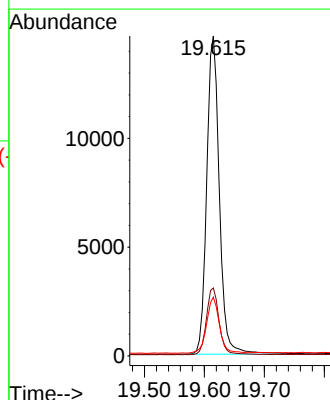
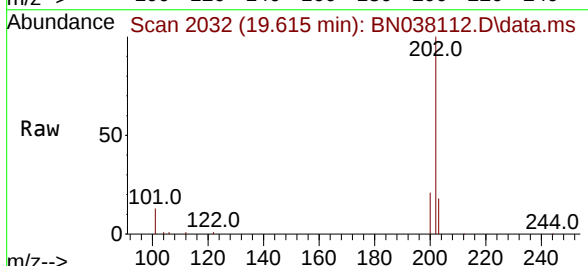
Tgt Ion:202 Resp: 21387

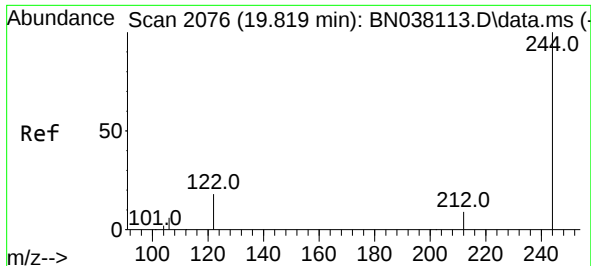
Ion Ratio Lower Upper

202 100

200 21.0 16.7 25.1

203 17.7 14.2 21.2

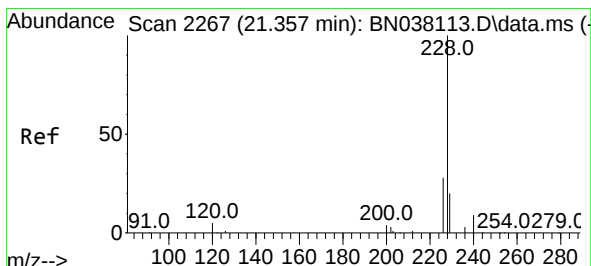
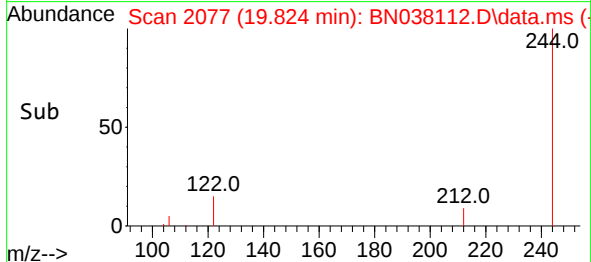
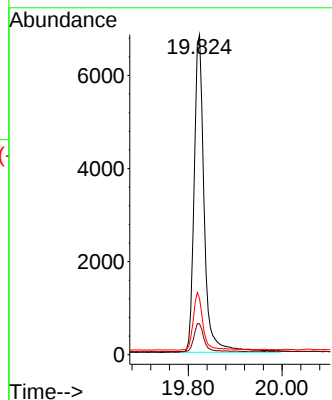
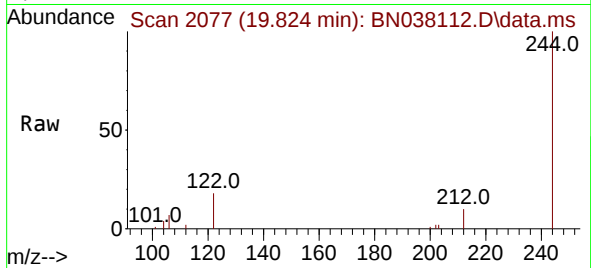




#31  
 Terphenyl-d14  
 Concen: 0.203 ng  
 RT: 19.824 min Scan# 2076  
 Delta R.T. 0.005 min  
 Lab File: BN038112.D  
 Acq: 28 Oct 2025 13:36

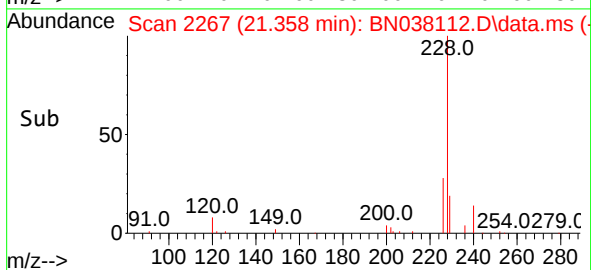
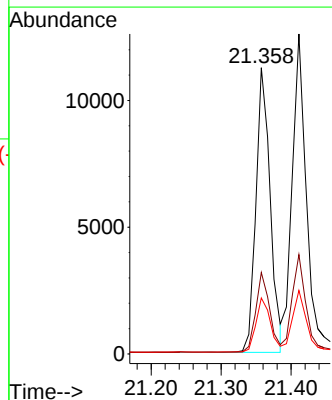
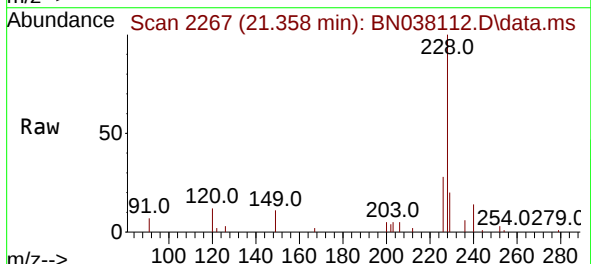
Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC0.2

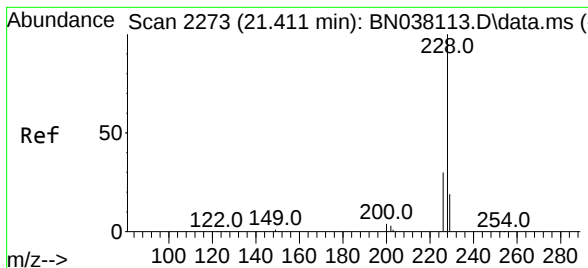
Tgt Ion:244 Resp: 10170  
 Ion Ratio Lower Upper  
 244 100  
 212 9.6 7.8 11.6  
 122 17.6 15.2 22.8



#32  
 Benzo(a)anthracene  
 Concen: 0.193 ng  
 RT: 21.358 min Scan# 2267  
 Delta R.T. 0.000 min  
 Lab File: BN038112.D  
 Acq: 28 Oct 2025 13:36

Tgt Ion:228 Resp: 15917  
 Ion Ratio Lower Upper  
 228 100  
 226 28.5 22.2 33.4  
 229 19.5 15.8 23.8





#33

Chrysene

Concen: 0.205 ng

RT: 21.411 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN038112.D

Acq: 28 Oct 2025 13:36

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2

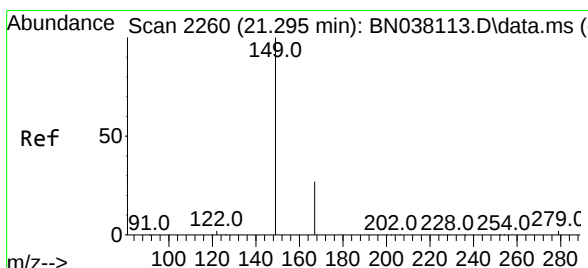
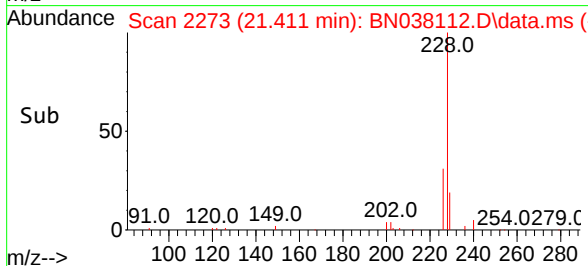
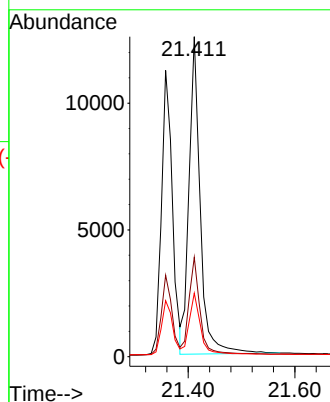
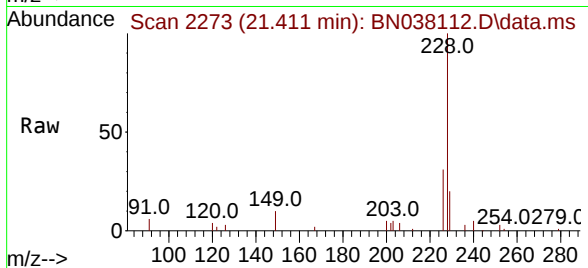
Tgt Ion:228 Resp: 18301

Ion Ratio Lower Upper

228 100

226 31.1 24.3 36.5

229 19.9 15.7 23.5



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.242 ng

RT: 21.295 min Scan# 2260

Delta R.T. 0.000 min

Lab File: BN038112.D

Acq: 28 Oct 2025 13:36

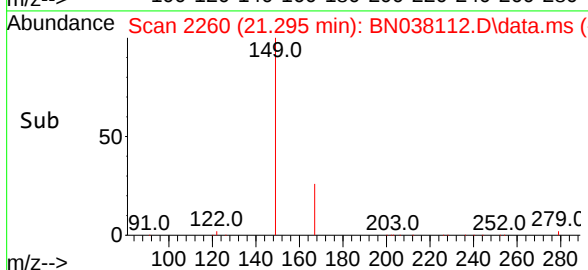
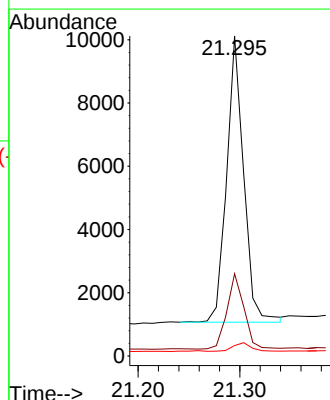
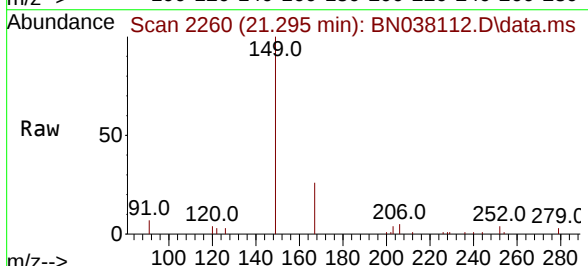
Tgt Ion:149 Resp: 10496

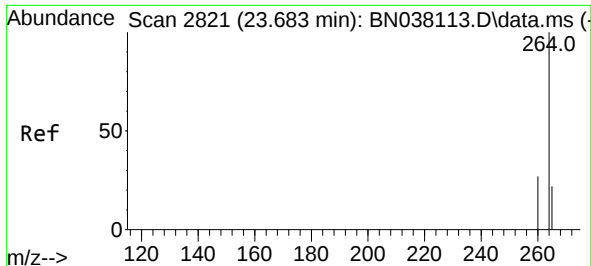
Ion Ratio Lower Upper

149 100

167 26.3 21.1 31.7

279 3.1 2.9 4.3

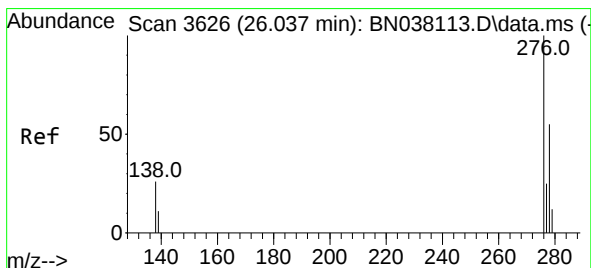
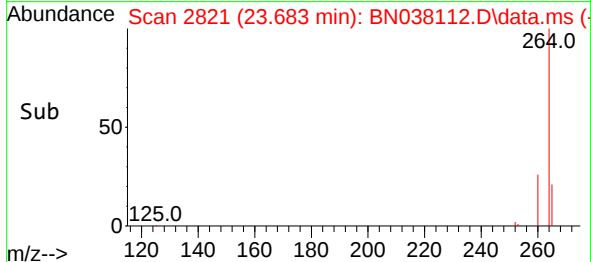
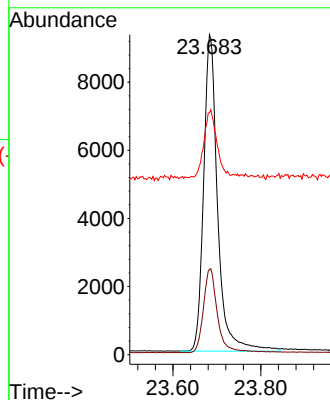
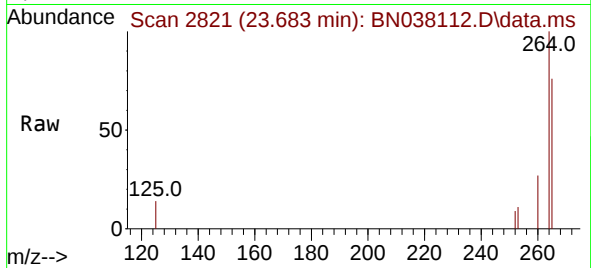




#35  
 Perylene-d12  
 Concen: 0.400 ng  
 RT: 23.683 min Scan# 21  
 Delta R.T. 0.003 min  
 Lab File: BN038112.D  
 Acq: 28 Oct 2025 13:36

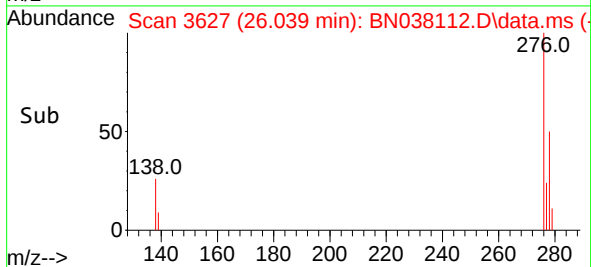
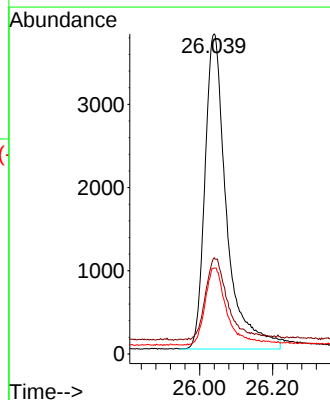
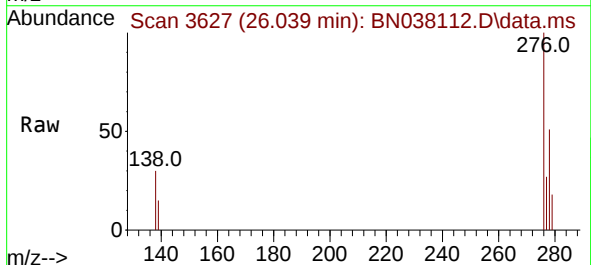
Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC0.2

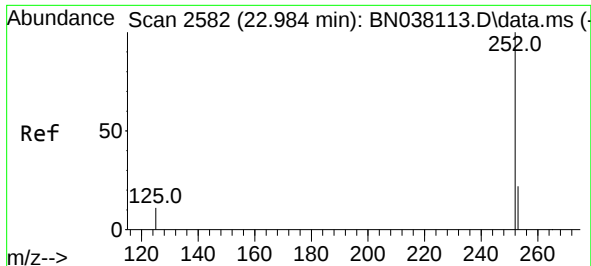
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 264   | Resp: | 20598 |
| Ion Ratio | Lower | Upper |       |
| 264       | 100   |       |       |
| 260       | 26.6  | 21.8  | 32.8  |
| 265       | 75.6  | 68.6  | 102.8 |



#36  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.184 ng  
 RT: 26.039 min Scan# 3627  
 Delta R.T. 0.006 min  
 Lab File: BN038112.D  
 Acq: 28 Oct 2025 13:36

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 15575 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 25.6  | 21.4  | 32.0  |
| 277       | 24.2  | 19.2  | 28.8  |

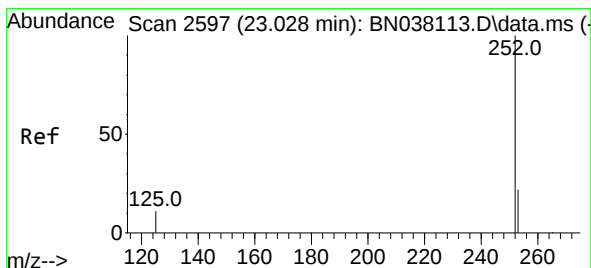
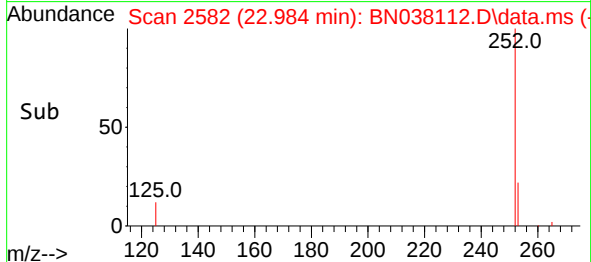
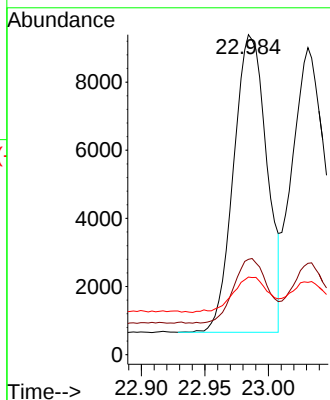
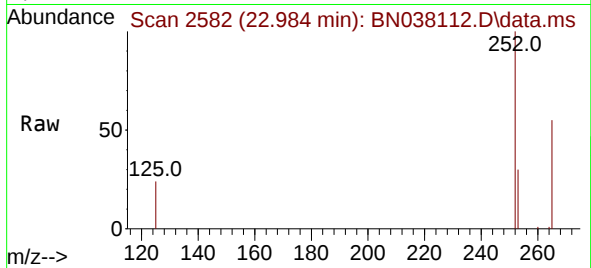




#37  
Benzo(b)fluoranthene  
Concen: 0.180 ng  
RT: 22.984 min Scan# 2582  
Delta R.T. 0.003 min  
Lab File: BN038112.D  
Acq: 28 Oct 2025 13:36

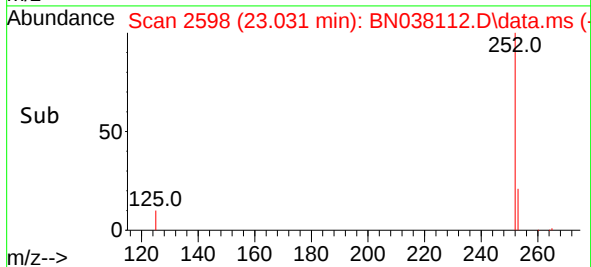
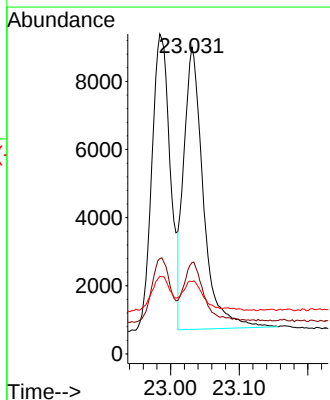
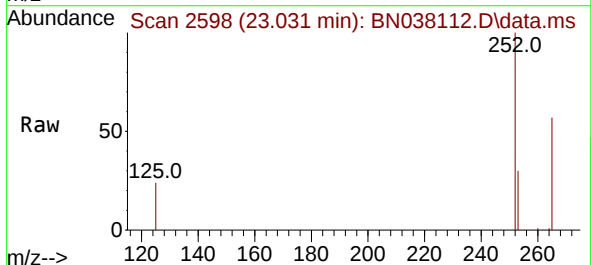
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

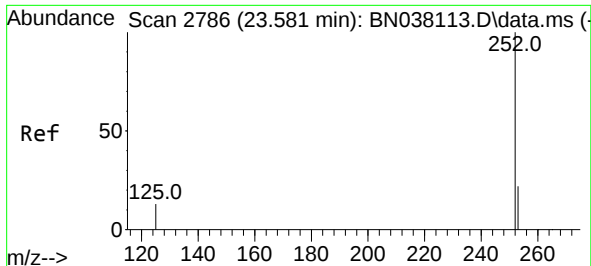
Tgt Ion:252 Resp: 15888  
Ion Ratio Lower Upper  
252 100  
253 29.8 20.9 31.3  
125 24.3 14.1 21.1#



#38  
Benzo(k)fluoranthene  
Concen: 0.185 ng  
RT: 23.031 min Scan# 2598  
Delta R.T. 0.003 min  
Lab File: BN038112.D  
Acq: 28 Oct 2025 13:36

Tgt Ion:252 Resp: 16371  
Ion Ratio Lower Upper  
252 100  
253 29.7 21.2 31.8  
125 23.6 14.6 22.0#





#39

Benzo(a)pyrene

Concen: 0.186 ng

RT: 23.584 min Scan# 21

Delta R.T. 0.006 min

Lab File: BN038112.D

Acq: 28 Oct 2025 13:36

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2

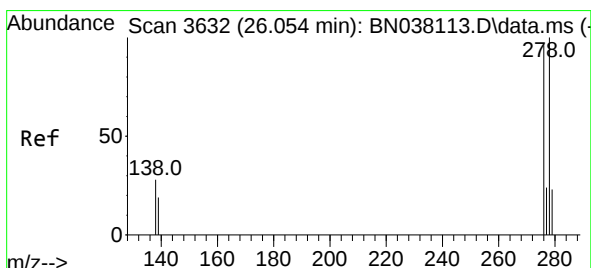
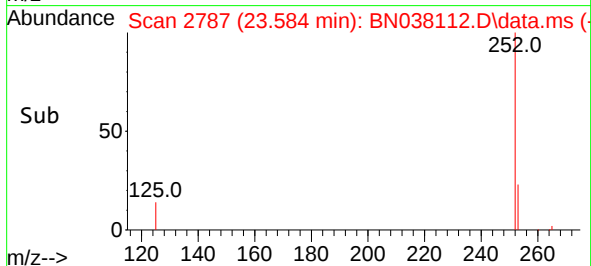
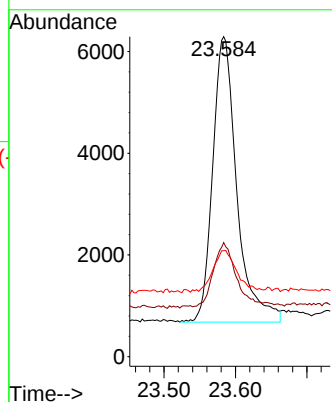
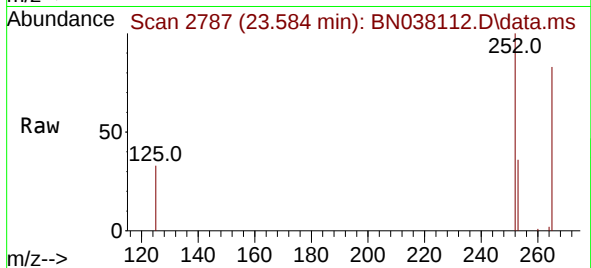
Tgt Ion:252 Resp: 13137

Ion Ratio Lower Upper

252 100

253 35.6 23.1 34.7#

125 33.1 18.6 28.0#



#40

Dibenzo(a,h)anthracene

Concen: 0.182 ng

RT: 26.057 min Scan# 3633

Delta R.T. 0.009 min

Lab File: BN038112.D

Acq: 28 Oct 2025 13:36

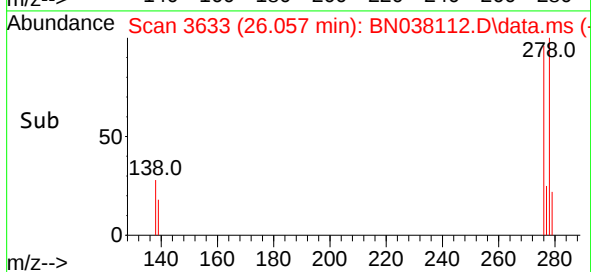
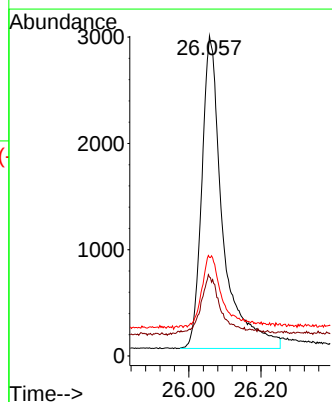
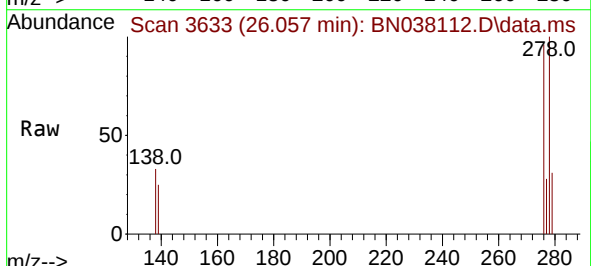
Tgt Ion:278 Resp: 11845

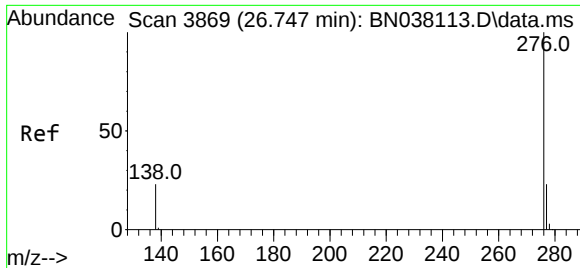
Ion Ratio Lower Upper

278 100

139 24.7 17.6 26.4

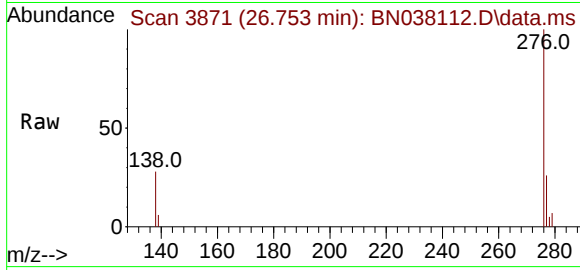
279 30.8 22.6 33.8



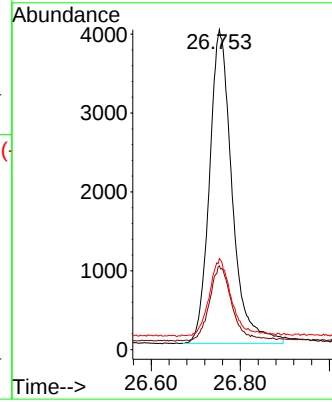
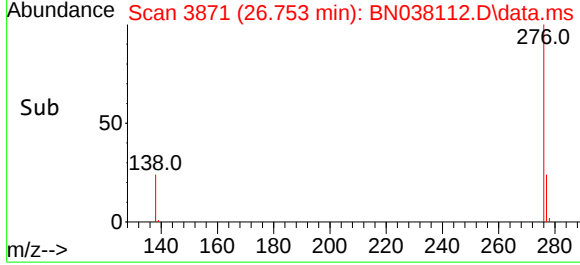


#41  
Benzo(g,h,i)perylene  
Concen: 0.189 ng  
RT: 26.753 min Scan# 3871  
Delta R.T. 0.003 min  
Lab File: BN038112.D  
Acq: 28 Oct 2025 13:36

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2



Tgt Ion:276 Resp: 14055  
Ion Ratio Lower Upper  
276 100  
277 26.2 19.7 29.5  
138 28.5 20.2 30.4



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN102825\  
 Data File : BN038113.D  
 Acq On : 28 Oct 2025 14:13  
 Operator : RC/JU  
 Sample : SSTDICCC0.4  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICCC0.4

Quant Time: Oct 28 17:31:42 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN102825.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Oct 28 17:15:13 2025  
 Response via : Initial Calibration

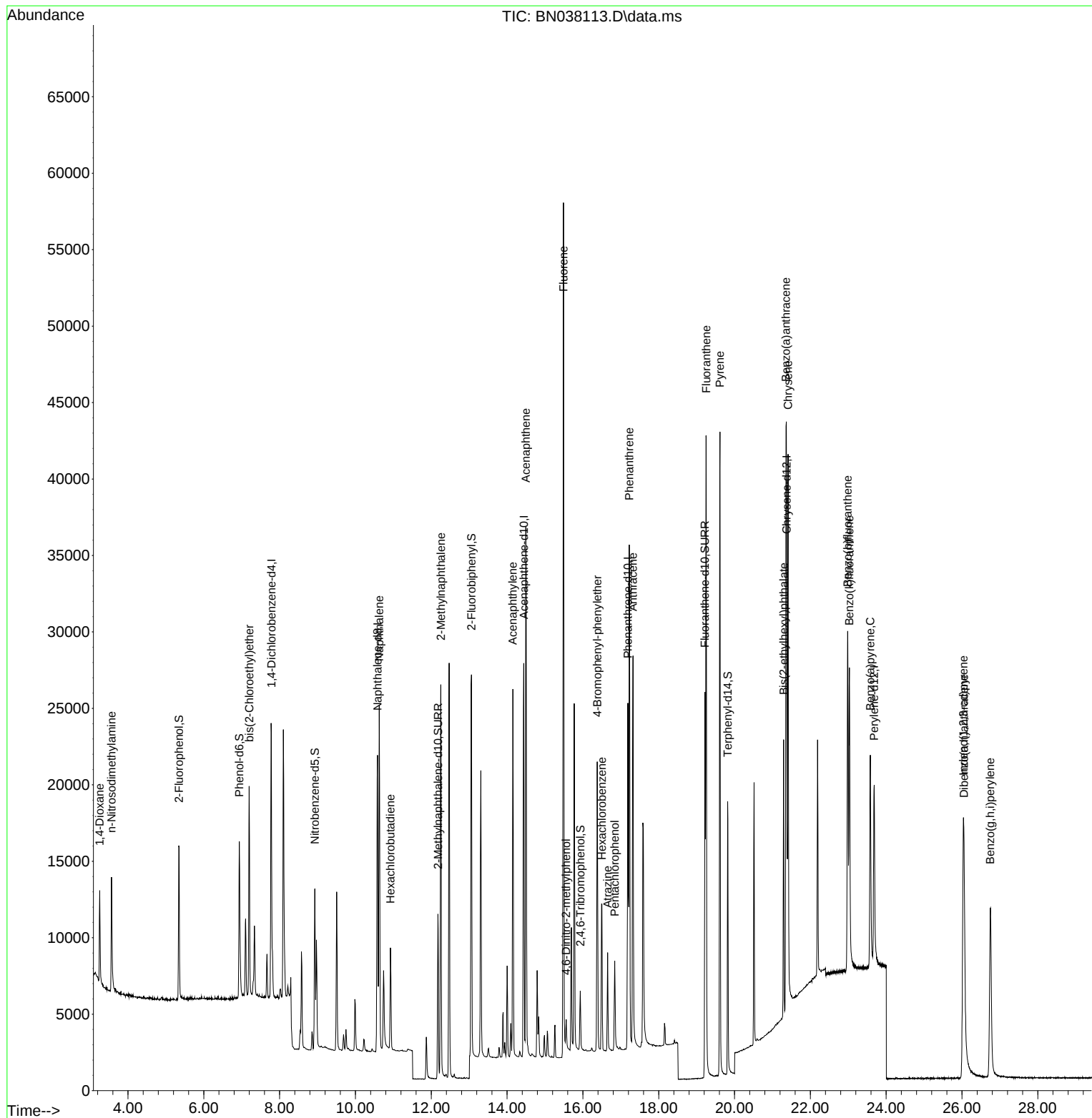
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.782  | 152  | 9189     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.584 | 136  | 27629    | 0.400 | ng    | 0.01     |
| 13) Acenaphthene-d10          | 14.441 | 164  | 15496    | 0.400 | ng    | 0.01     |
| 19) Phenanthrene-d10          | 17.186 | 188  | 29547    | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 21.375 | 240  | 21529    | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.683 | 264  | 17966    | 0.400 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.348  | 112  | 8768     | 0.405 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.937  | 99   | 10420    | 0.395 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.929  | 82   | 8652     | 0.388 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 12.177 | 152  | 15231    | 0.386 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.932 | 330  | 2303     | 0.361 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 13.062 | 172  | 24443    | 0.394 | ng    | 0.01     |
| 27) Fluoranthene-d10          | 19.220 | 212  | 28227    | 0.379 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.819 | 244  | 18767    | 0.401 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| Target Compounds              |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.254  | 88   | 3895     | 0.410 | ng    | 100      |
| 3) n-Nitrosodimethylamine     | 3.564  | 42   | 4910     | 0.402 | ng    | 100      |
| 6) bis(2-Chloroethyl)ether    | 7.197  | 93   | 10402    | 0.402 | ng    | 100      |
| 9) Naphthalene                | 10.626 | 128  | 29858    | 0.392 | ng    | 100      |
| 10) Hexachlorobutadiene       | 10.925 | 225  | 5174     | 0.403 | ng    | # 100    |
| 12) 2-Methylnaphthalene       | 12.253 | 142  | 19577    | 0.386 | ng    | 100      |
| 16) Acenaphthylene            | 14.152 | 152  | 26507    | 0.378 | ng    | 100      |
| 17) Acenaphthene              | 14.494 | 154  | 18774    | 0.382 | ng    | 100      |
| 18) Fluorene                  | 15.489 | 166  | 24733    | 0.384 | ng    | 100      |
| 20) 4,6-Dinitro-2-methylph... | 15.560 | 198  | 1329     | 0.375 | ng    | 100      |
| 21) 4-Bromophenyl-phenylether | 16.379 | 248  | 7383     | 0.381 | ng    | 100      |
| 22) Hexachlorobenzene         | 16.503 | 284  | 8778     | 0.398 | ng    | 100      |
| 23) Atrazine                  | 16.652 | 200  | 5175     | 0.365 | ng    | 100      |
| 24) Pentachlorophenol         | 16.838 | 266  | 3182     | 0.335 | ng    | 100      |
| 25) Phenanthrene              | 17.223 | 178  | 36093    | 0.385 | ng    | 100      |
| 26) Anthracene                | 17.322 | 178  | 30869    | 0.376 | ng    | 100      |
| 28) Fluoranthene              | 19.253 | 202  | 39664    | 0.378 | ng    | 100      |
| 30) Pyrene                    | 19.615 | 202  | 39644    | 0.408 | ng    | 100      |
| 32) Benzo(a)anthracene        | 21.357 | 228  | 29230    | 0.381 | ng    | 100      |
| 33) Chrysene                  | 21.411 | 228  | 33214    | 0.398 | ng    | 100      |
| 34) Bis(2-ethylhexyl)phtha... | 21.295 | 149  | 15540    | 0.384 | ng    | 100      |
| 36) Indeno(1,2,3-cd)pyrene    | 26.037 | 276  | 28812    | 0.390 | ng    | 100      |
| 37) Benzo(b)fluoranthene      | 22.984 | 252  | 29283    | 0.381 | ng    | 100      |
| 38) Benzo(k)fluoranthene      | 23.028 | 252  | 29088    | 0.376 | ng    | 100      |
| 39) Benzo(a)pyrene            | 23.581 | 252  | 23635    | 0.384 | ng    | 100      |
| 40) Dibenzo(a,h)anthracene    | 26.054 | 278  | 21487    | 0.378 | ng    | 100      |
| 41) Benzo(g,h,i)perylene      | 26.747 | 276  | 25622    | 0.395 | ng    | 100      |
| -----                         |        |      |          |       |       |          |

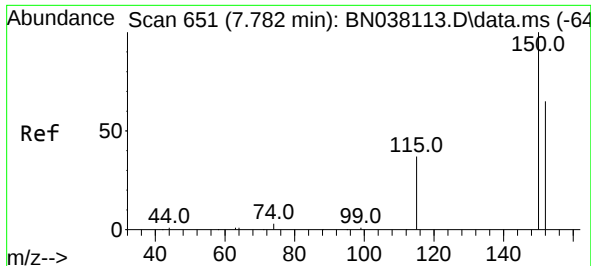
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN102825\  
Data File : BN038113.D  
Acq On : 28 Oct 2025 14:13  
Operator : RC/JU  
Sample : SSTDICCC0.4  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

Quant Time: Oct 28 17:31:42 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN102825.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Oct 28 17:15:13 2025  
Response via : Initial Calibration

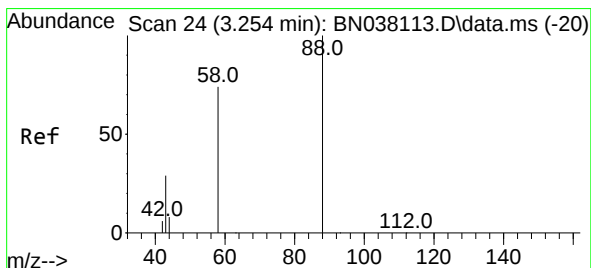
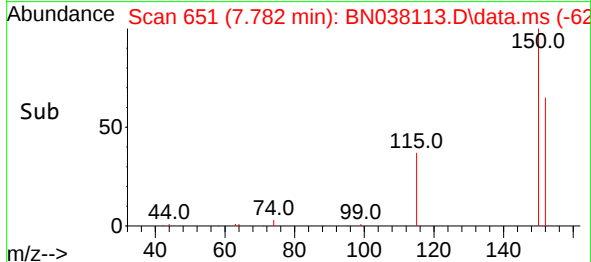
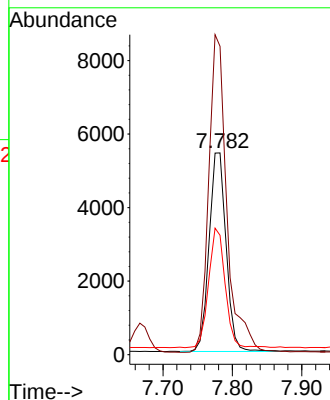
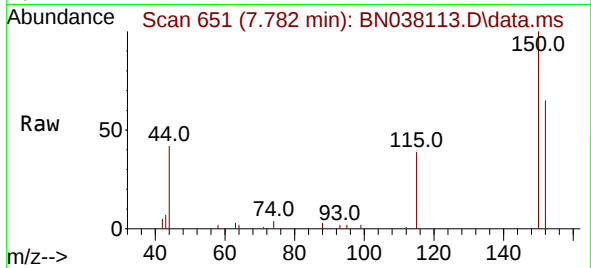




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 0.400 ng  
 RT: 7.782 min Scan# 61  
 Delta R.T. 0.007 min  
 Lab File: BN038113.D  
 Acq: 28 Oct 2025 14:13

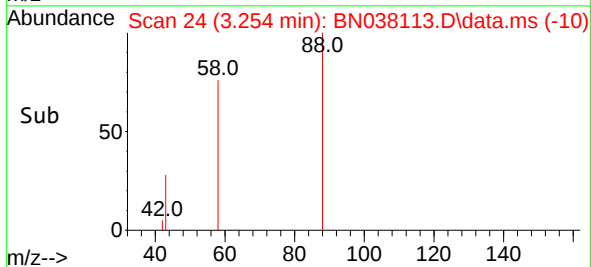
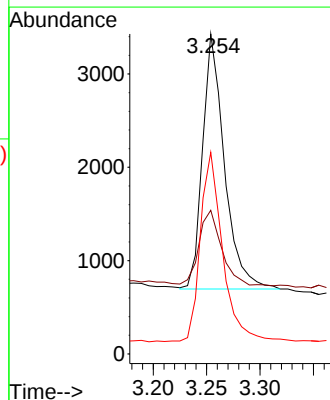
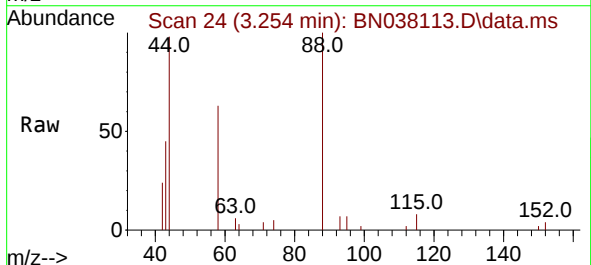
Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC0.4

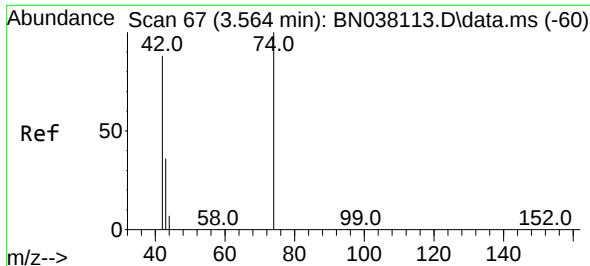
Tgt Ion:152 Resp: 9189  
 Ion Ratio Lower Upper  
 152 100  
 150 152.9 122.3 183.5  
 115 59.2 47.4 71.0



#2  
 1,4-Dioxane  
 Concen: 0.410 ng  
 RT: 3.254 min Scan# 24  
 Delta R.T. -0.000 min  
 Lab File: BN038113.D  
 Acq: 28 Oct 2025 14:13

Tgt Ion: 88 Resp: 3895  
 Ion Ratio Lower Upper  
 88 100  
 43 30.4 24.3 36.5  
 58 75.5 60.4 90.6

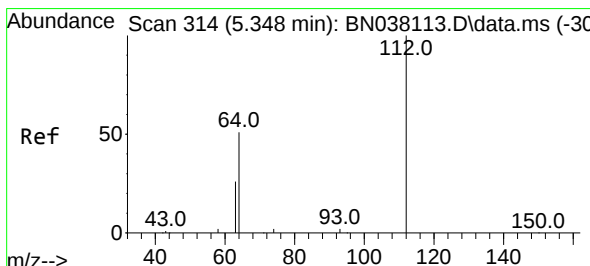
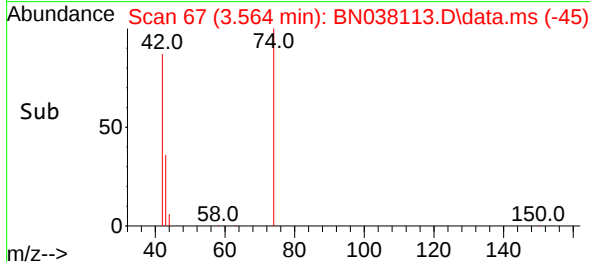
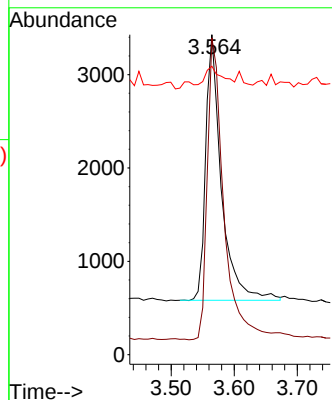
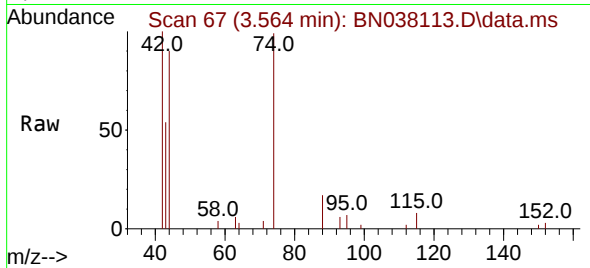




#3  
n-Nitrosodimethylamine  
Concen: 0.402 ng  
RT: 3.564 min Scan# 61  
Delta R.T. 0.007 min  
Lab File: BN038113.D  
Acq: 28 Oct 2025 14:13

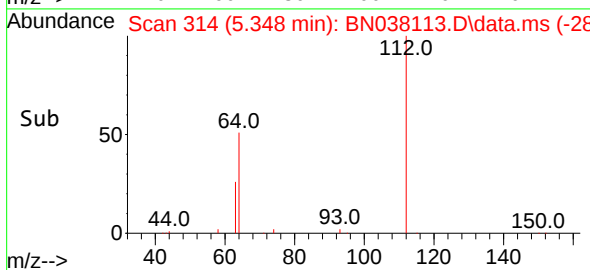
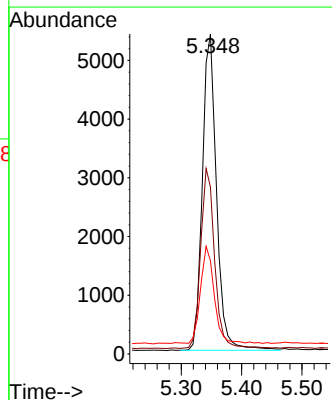
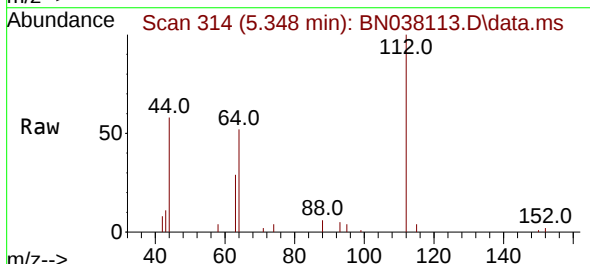
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

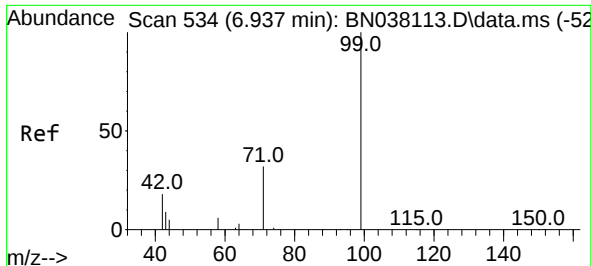
Tgt Ion: 42 Resp: 4910  
Ion Ratio Lower Upper  
42 100  
74 121.1 96.8 145.2  
44 6.7 5.3 7.9



#4  
2-Fluorophenol  
Concen: 0.405 ng  
RT: 5.348 min Scan# 314  
Delta R.T. -0.000 min  
Lab File: BN038113.D  
Acq: 28 Oct 2025 14:13

Tgt Ion: 112 Resp: 8768  
Ion Ratio Lower Upper  
112 100  
64 56.7 45.4 68.0  
63 29.0 23.2 34.8

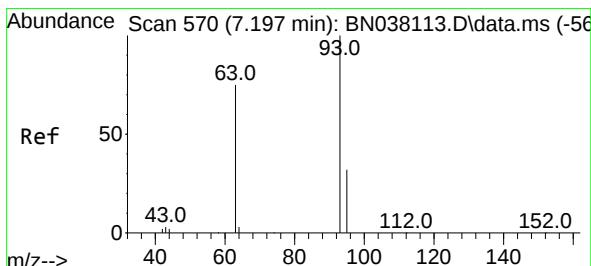
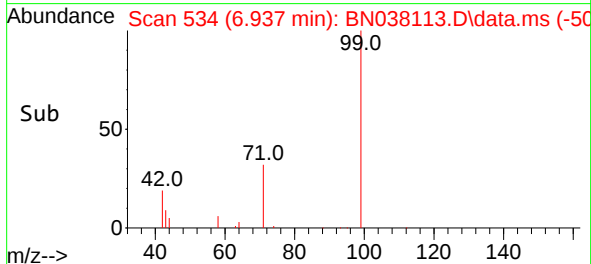
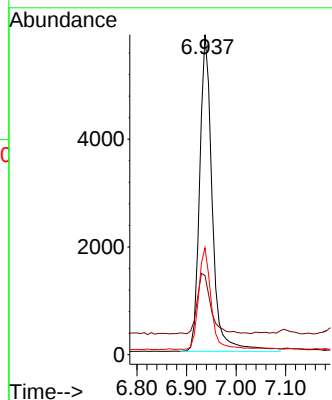
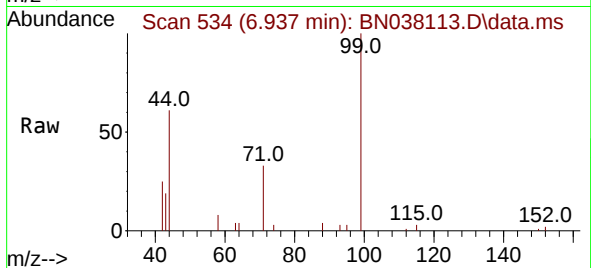




#5  
Phenol-d6  
Concen: 0.395 ng  
RT: 6.937 min Scan# 51  
Delta R.T. -0.000 min  
Lab File: BN038113.D  
Acq: 28 Oct 2025 14:13

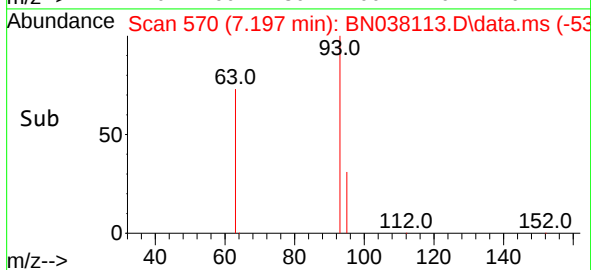
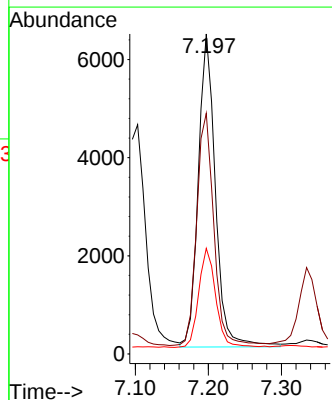
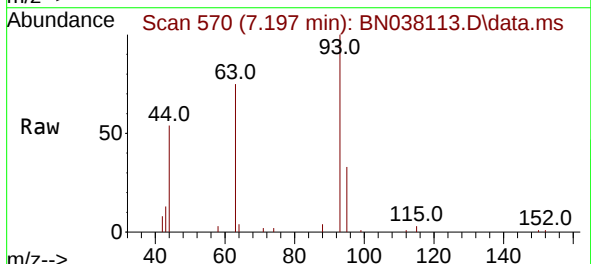
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

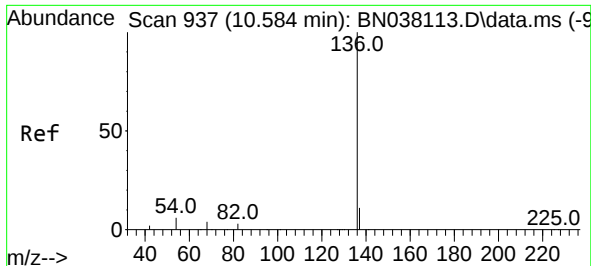
Tgt Ion: 99 Resp: 10420  
Ion Ratio Lower Upper  
99 100  
42 20.7 16.6 24.8  
71 31.8 25.4 38.2



#6  
bis(2-Chloroethyl)ether  
Concen: 0.402 ng  
RT: 7.197 min Scan# 570  
Delta R.T. -0.000 min  
Lab File: BN038113.D  
Acq: 28 Oct 2025 14:13

Tgt Ion: 93 Resp: 10402  
Ion Ratio Lower Upper  
93 100  
63 73.7 59.3 88.9  
95 31.4 25.2 37.8

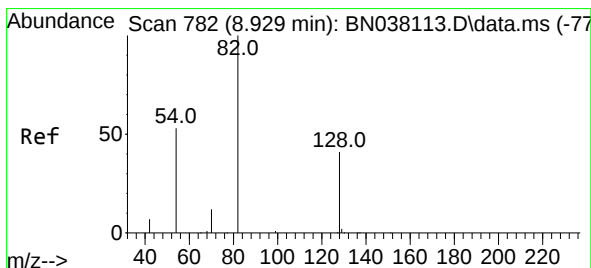
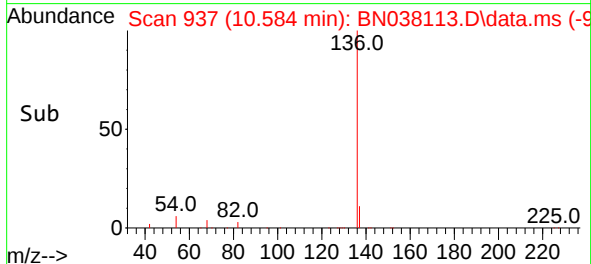
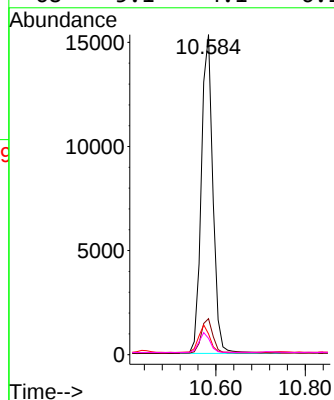
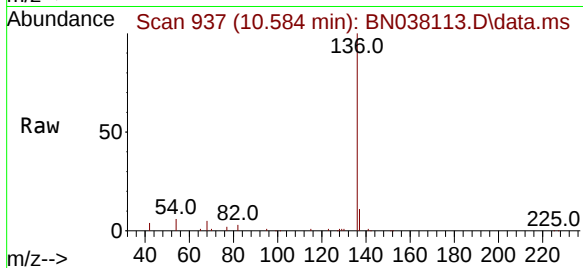




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.584 min Scan# 91  
Delta R.T. 0.011 min  
Lab File: BN038113.D  
Acq: 28 Oct 2025 14:13

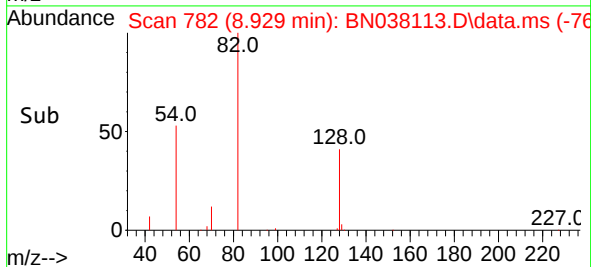
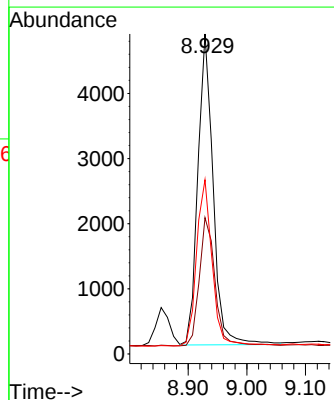
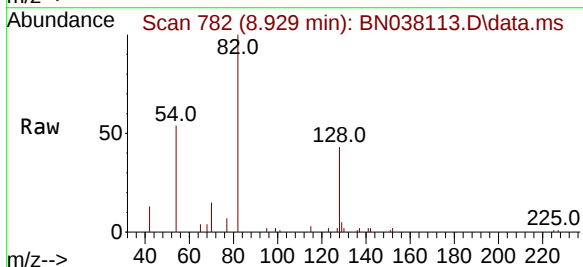
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

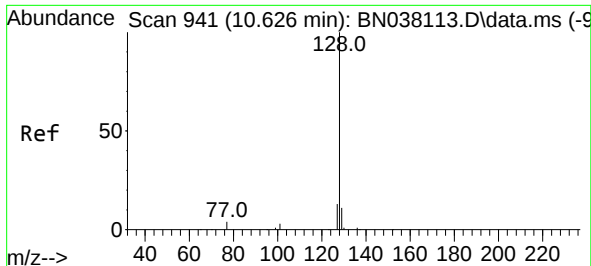
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 27629 |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 11.2  | 9.0   | 13.4  |
| 54       | 6.5   | 5.2   | 7.8   |
| 68       | 5.1   | 4.1   | 6.1   |



#8  
Nitrobenzene-d5  
Concen: 0.388 ng  
RT: 8.929 min Scan# 782  
Delta R.T. -0.000 min  
Lab File: BN038113.D  
Acq: 28 Oct 2025 14:13

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 8652  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 42.6  | 34.1  | 51.1  |
| 54       | 54.4  | 43.5  | 65.3  |

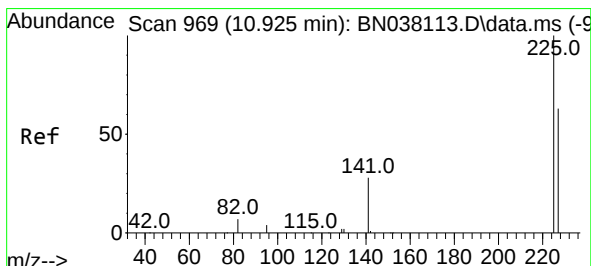
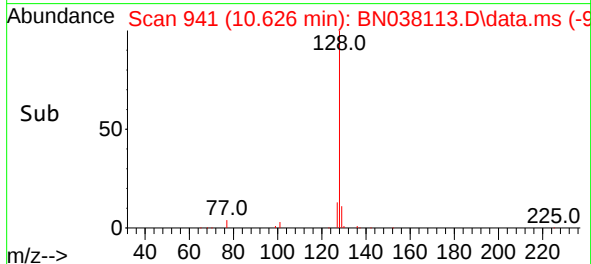
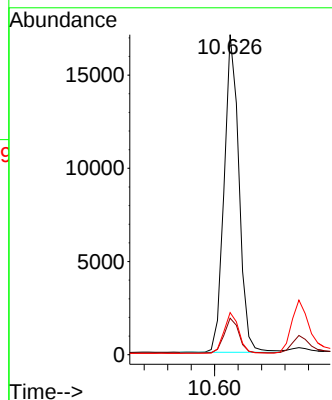
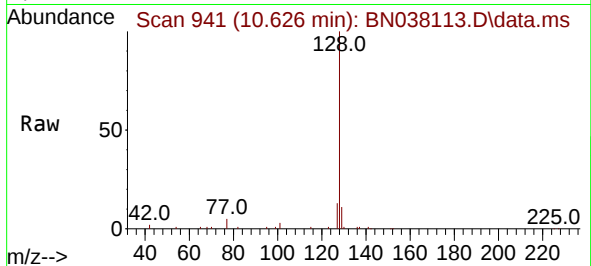




#9  
Naphthalene  
Concen: 0.392 ng  
RT: 10.626 min Scan# 941  
Delta R.T. -0.000 min  
Lab File: BN038113.D  
Acq: 28 Oct 2025 14:13

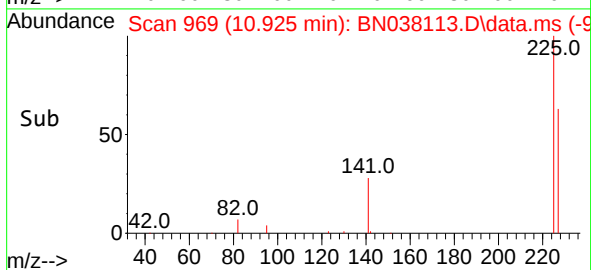
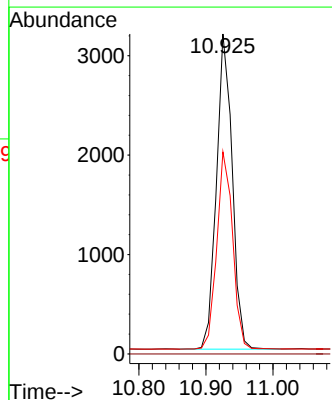
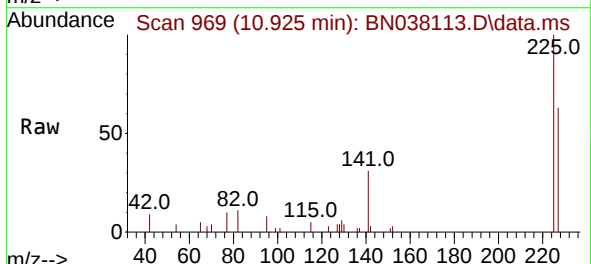
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

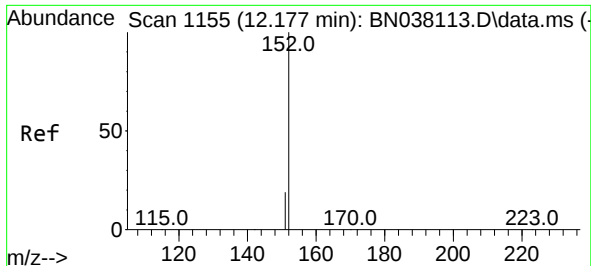
Tgt Ion:128 Resp: 29858  
Ion Ratio Lower Upper  
128 100  
129 11.4 9.1 13.7  
127 13.1 10.5 15.7



#10  
Hexachlorobutadiene  
Concen: 0.403 ng  
RT: 10.925 min Scan# 969  
Delta R.T. -0.000 min  
Lab File: BN038113.D  
Acq: 28 Oct 2025 14:13

Tgt Ion:225 Resp: 5174  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 62.9 50.3 75.5

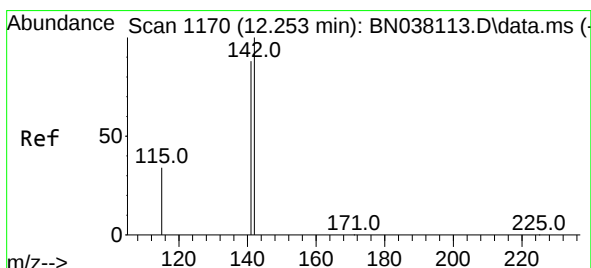
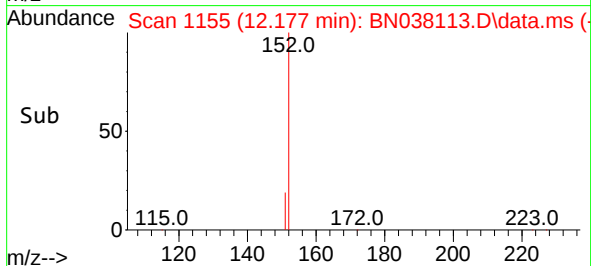
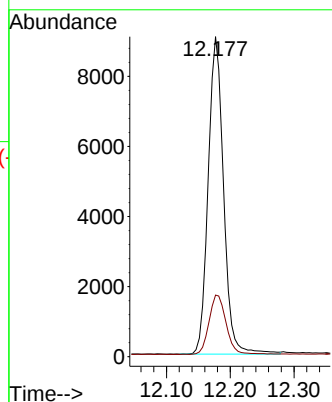
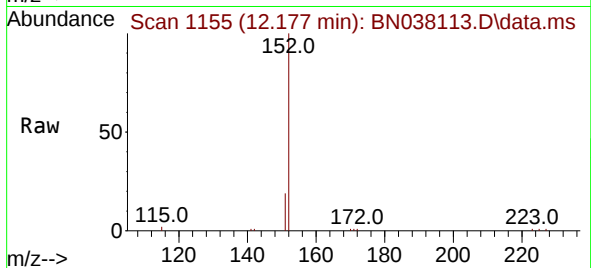




#11  
2-Methylnaphthalene-d10  
Concen: 0.386 ng  
RT: 12.177 min Scan# 1155  
Delta R.T. -0.000 min  
Lab File: BN038113.D  
Acq: 28 Oct 2025 14:13

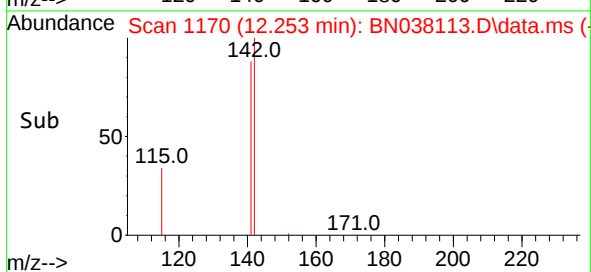
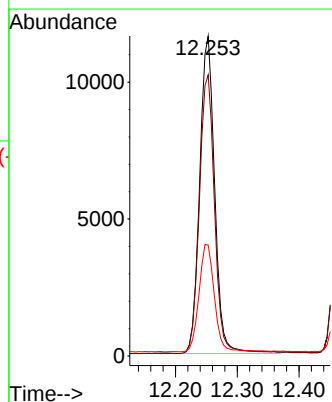
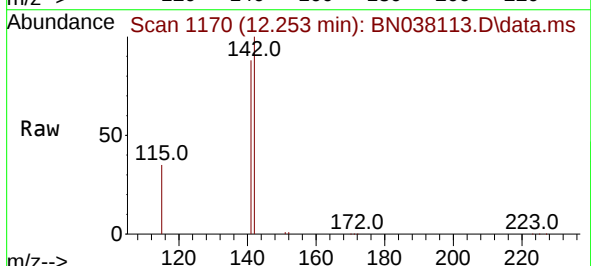
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

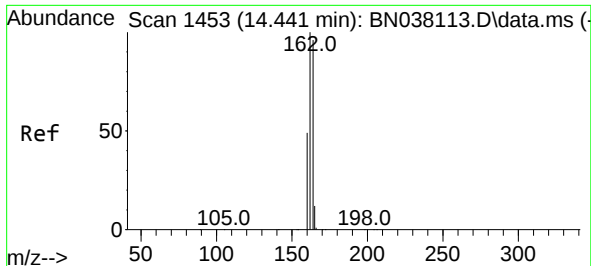
Tgt Ion:152 Resp: 15231  
Ion Ratio Lower Upper  
152 100  
151 21.0 16.8 25.2



#12  
2-Methylnaphthalene  
Concen: 0.386 ng  
RT: 12.253 min Scan# 1170  
Delta R.T. 0.005 min  
Lab File: BN038113.D  
Acq: 28 Oct 2025 14:13

Tgt Ion:142 Resp: 19577  
Ion Ratio Lower Upper  
142 100  
141 87.9 70.3 105.5  
115 34.7 27.8 41.6

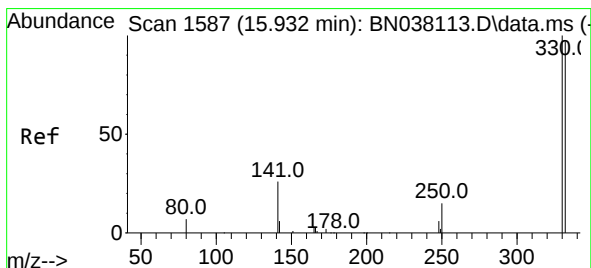
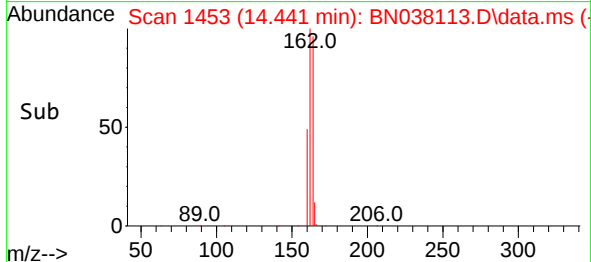
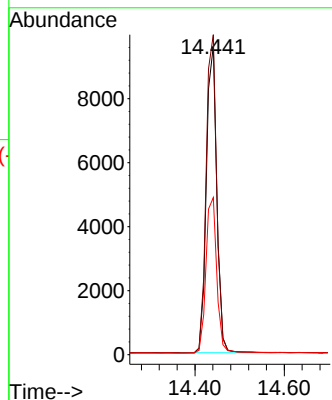
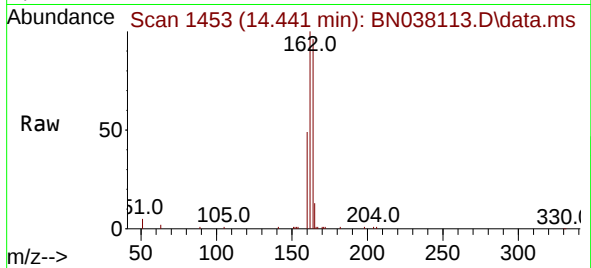




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.441 min Scan# 1453  
Delta R.T. 0.011 min  
Lab File: BN038113.D  
Acq: 28 Oct 2025 14:13

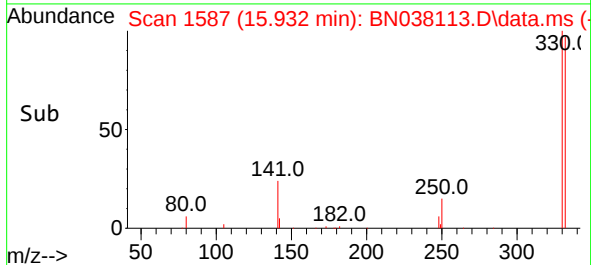
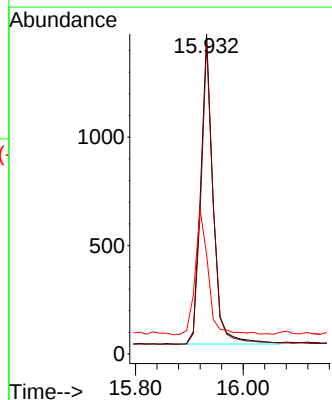
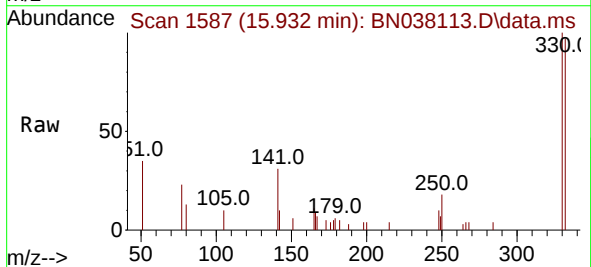
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

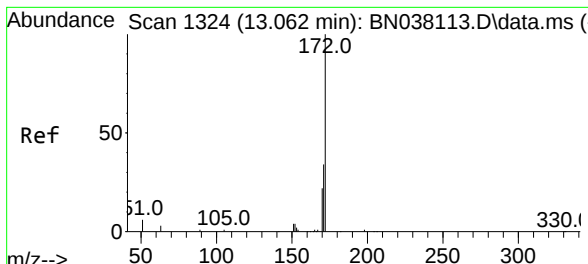
Tgt Ion:164 Resp: 15496  
Ion Ratio Lower Upper  
164 100  
162 103.7 83.0 124.4  
160 50.9 40.7 61.1



#14  
2,4,6-Tribromophenol  
Concen: 0.361 ng  
RT: 15.932 min Scan# 1587  
Delta R.T. 0.000 min  
Lab File: BN038113.D  
Acq: 28 Oct 2025 14:13

Tgt Ion:330 Resp: 2303  
Ion Ratio Lower Upper  
330 100  
332 96.1 76.6 114.8  
141 42.6 34.1 51.1

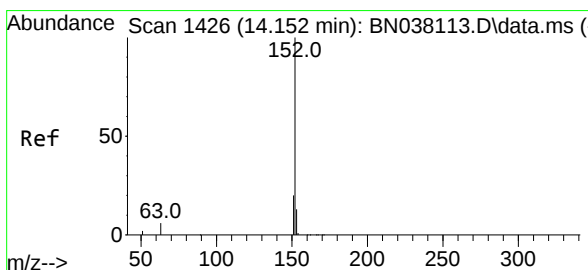
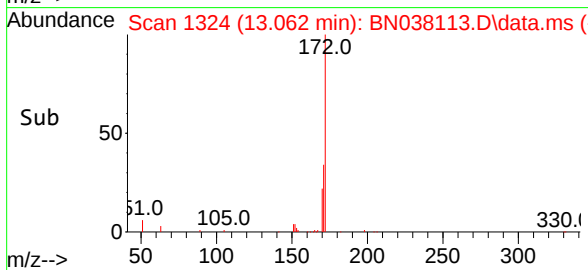
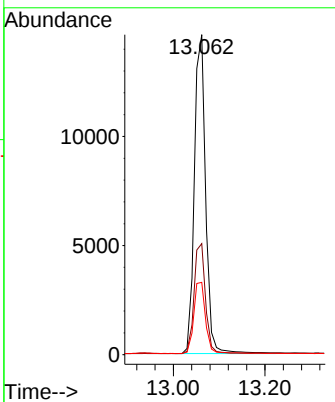
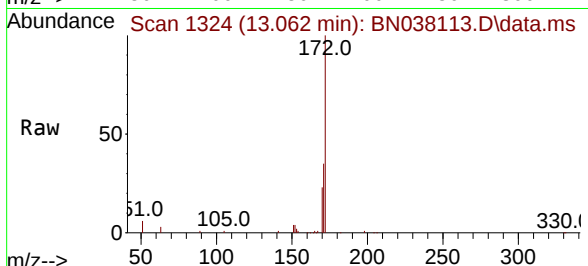




#15  
 2-Fluorobiphenyl  
 Concen: 0.394 ng  
 RT: 13.062 min Scan# 1324  
 Delta R.T. 0.011 min  
 Lab File: BN038113.D  
 Acq: 28 Oct 2025 14:13

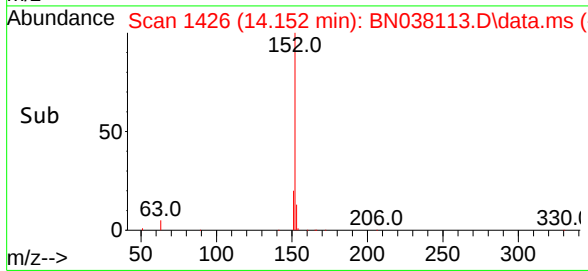
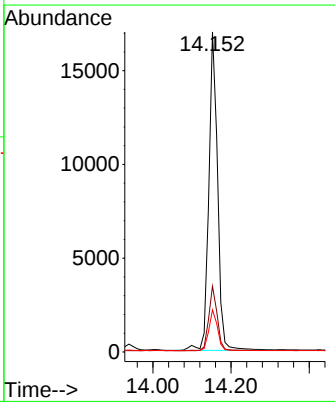
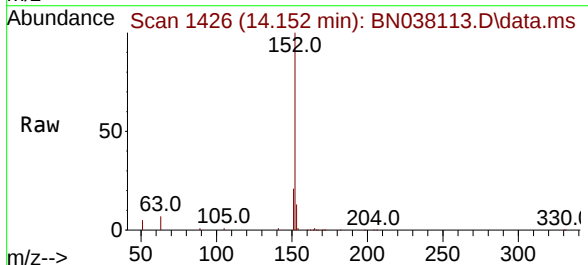
Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC0.4

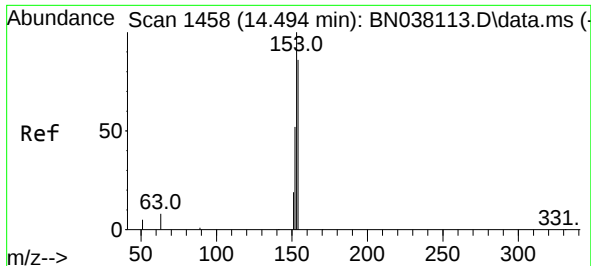
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 172   | Resp: | 24443 |
| Ion Ratio | Lower | Upper |       |
| 172       | 100   |       |       |
| 171       | 34.7  | 27.8  | 41.6  |
| 170       | 22.6  | 18.1  | 27.1  |



#16  
 Acenaphthylene  
 Concen: 0.378 ng  
 RT: 14.152 min Scan# 1426  
 Delta R.T. -0.000 min  
 Lab File: BN038113.D  
 Acq: 28 Oct 2025 14:13

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 152   | Resp: | 26507 |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 19.8  | 15.8  | 23.8  |
| 153       | 12.7  | 10.2  | 15.2  |

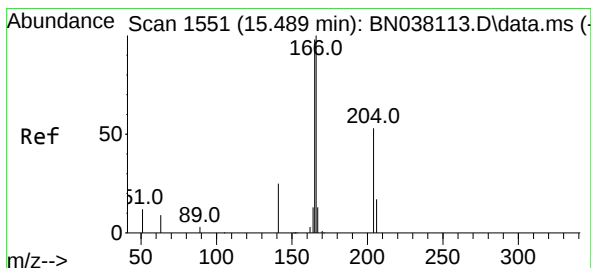
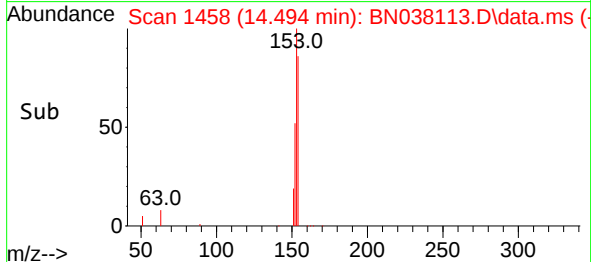
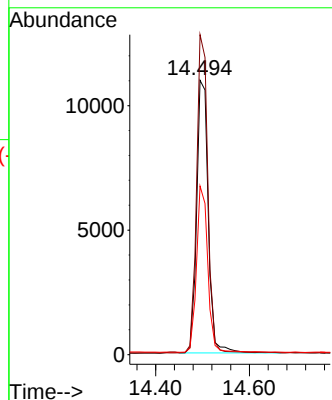
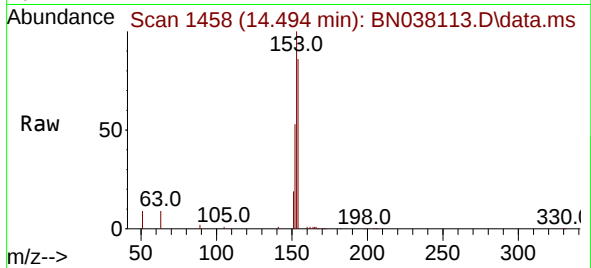




#17  
Acenaphthene  
Concen: 0.382 ng  
RT: 14.494 min Scan# 1458  
Delta R.T. -0.000 min  
Lab File: BN038113.D  
Acq: 28 Oct 2025 14:13

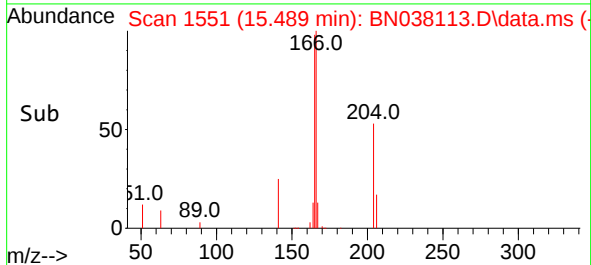
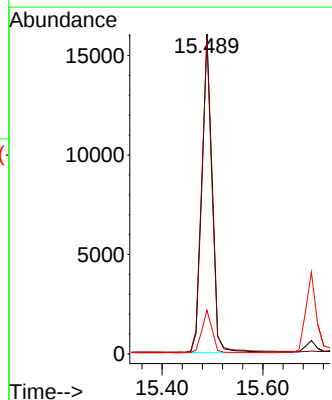
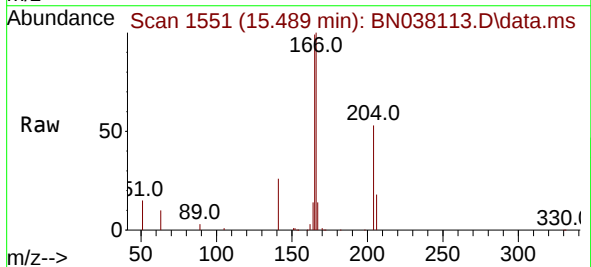
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

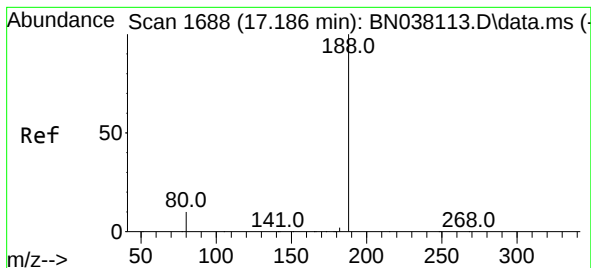
Tgt Ion:154 Resp: 18774  
Ion Ratio Lower Upper  
154 100  
153 112.5 90.0 135.0  
152 59.1 47.3 70.9



#18  
Fluorene  
Concen: 0.384 ng  
RT: 15.489 min Scan# 1551  
Delta R.T. -0.000 min  
Lab File: BN038113.D  
Acq: 28 Oct 2025 14:13

Tgt Ion:166 Resp: 24733  
Ion Ratio Lower Upper  
166 100  
165 98.7 79.0 118.4  
167 13.4 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.186 min Scan# 1688

Delta R.T. -0.000 min

Lab File: BN038113.D

Acq: 28 Oct 2025 14:13

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

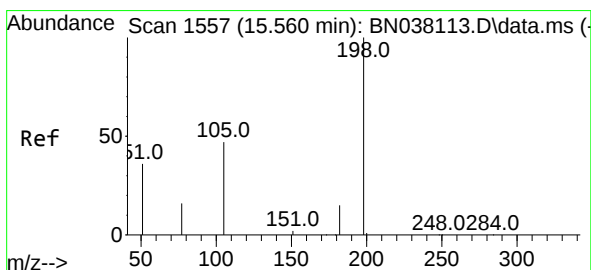
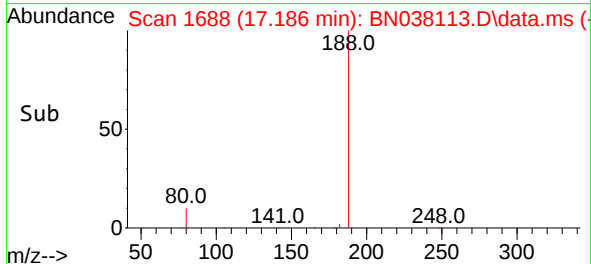
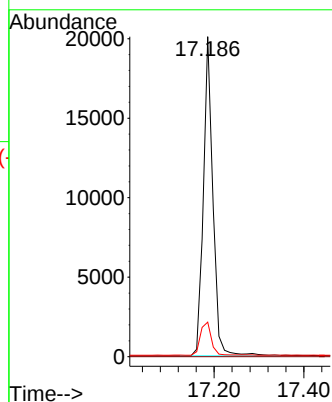
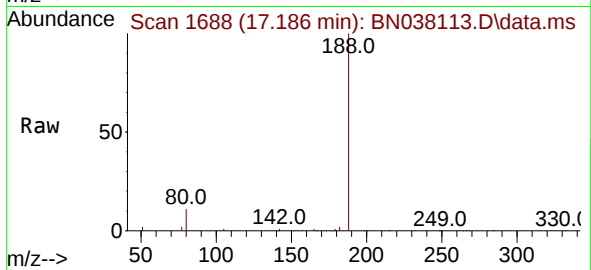
Tgt Ion:188 Resp: 29547

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.8 8.6 13.0



#20

4,6-Dinitro-2-methylphenol

Concen: 0.375 ng

RT: 15.560 min Scan# 1557

Delta R.T. -0.000 min

Lab File: BN038113.D

Acq: 28 Oct 2025 14:13

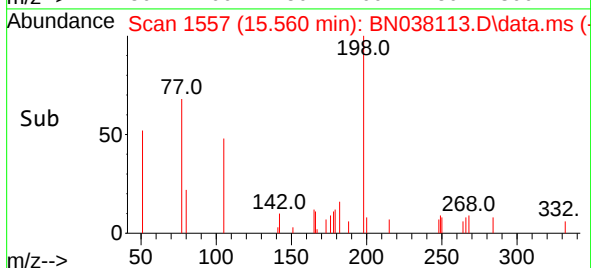
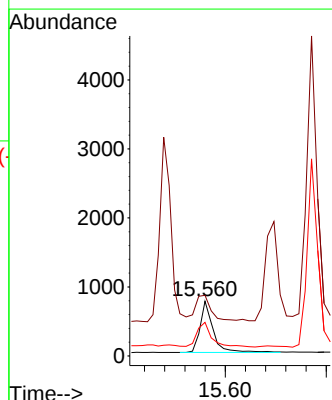
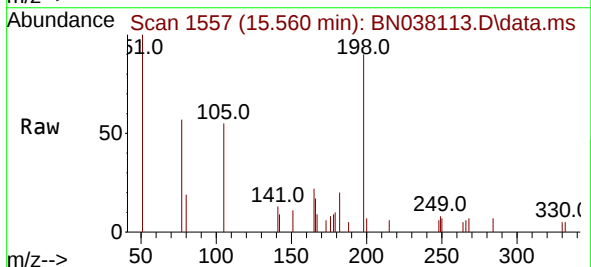
Tgt Ion:198 Resp: 1329

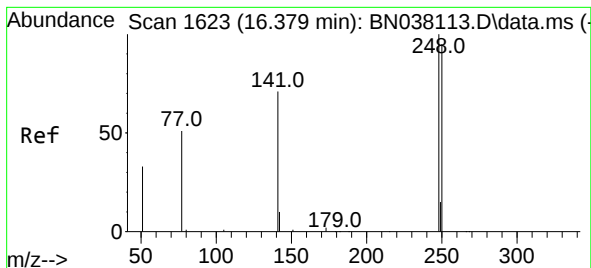
Ion Ratio Lower Upper

198 100

51 111.1 88.9 133.3

105 61.5 49.2 73.8

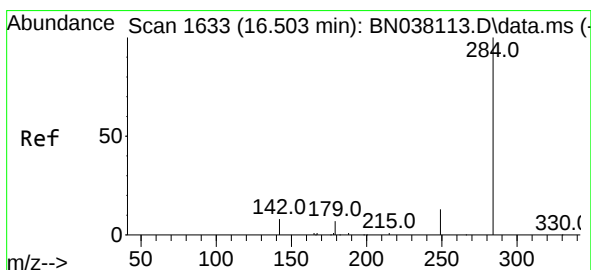
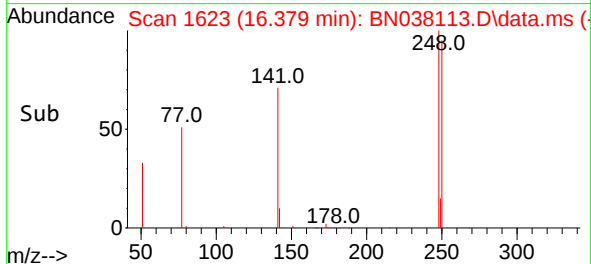
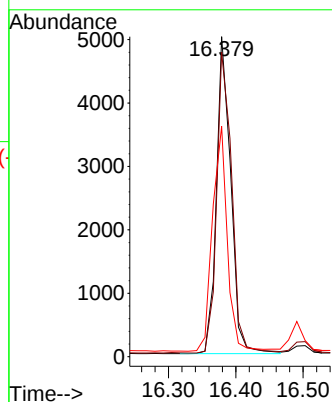
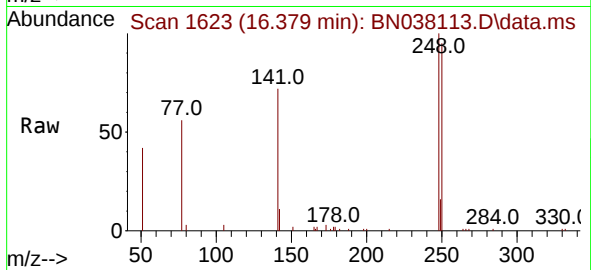




#21  
4-Bromophenyl-phenylether  
Concen: 0.381 ng  
RT: 16.379 min Scan# 1623  
Delta R.T. -0.000 min  
Lab File: BN038113.D  
Acq: 28 Oct 2025 14:13

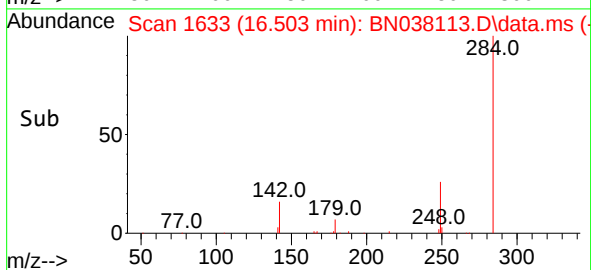
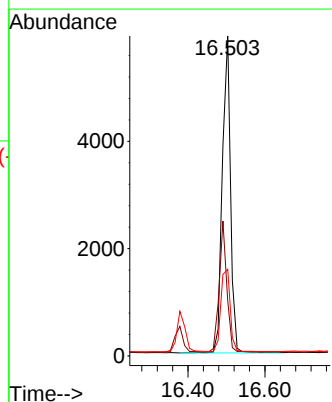
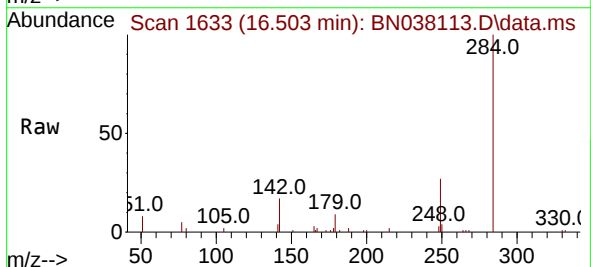
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

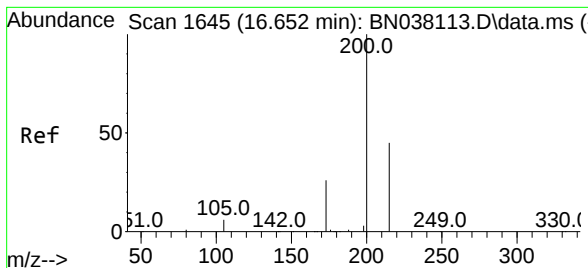
Tgt Ion:248 Resp: 7383  
Ion Ratio Lower Upper  
248 100  
250 95.2 76.2 114.2  
141 72.0 57.6 86.4



#22  
Hexachlorobenzene  
Concen: 0.398 ng  
RT: 16.503 min Scan# 1633  
Delta R.T. -0.000 min  
Lab File: BN038113.D  
Acq: 28 Oct 2025 14:13

Tgt Ion:284 Resp: 8778  
Ion Ratio Lower Upper  
284 100  
142 38.1 30.5 45.7  
249 29.4 23.5 35.3





#23

Atrazine

Concen: 0.365 ng

RT: 16.652 min Scan# 1645

Delta R.T. -0.000 min

Lab File: BN038113.D

Acq: 28 Oct 2025 14:13

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

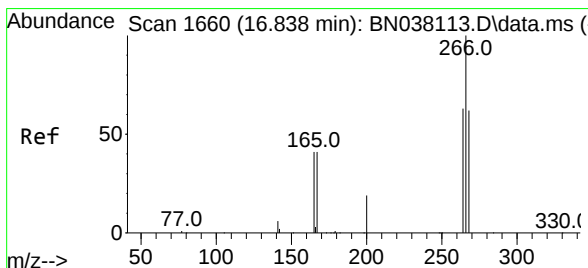
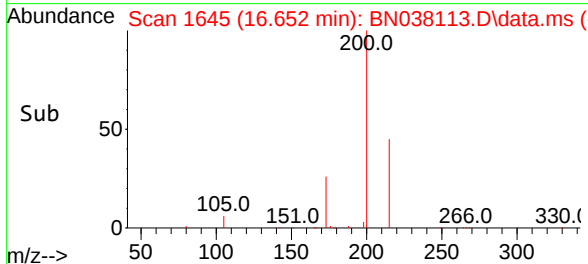
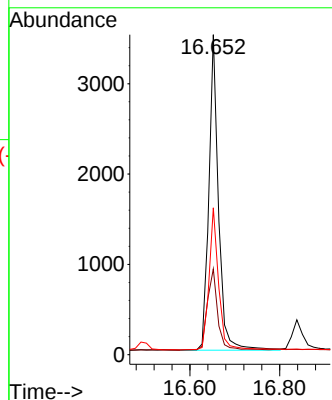
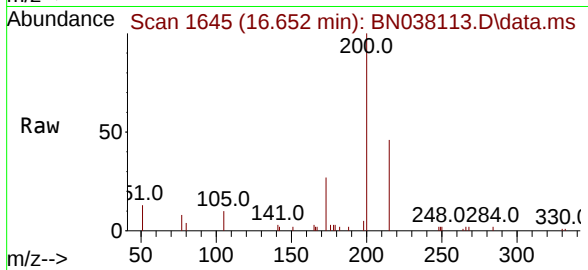
Tgt Ion:200 Resp: 5175

Ion Ratio Lower Upper

200 100

173 26.8 21.4 32.2

215 45.9 36.7 55.1



#24

Pentachlorophenol

Concen: 0.335 ng

RT: 16.838 min Scan# 1660

Delta R.T. -0.000 min

Lab File: BN038113.D

Acq: 28 Oct 2025 14:13

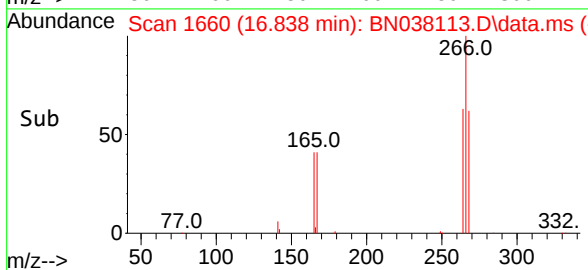
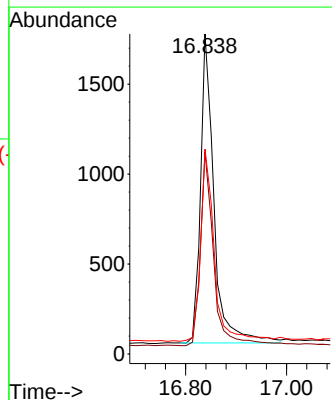
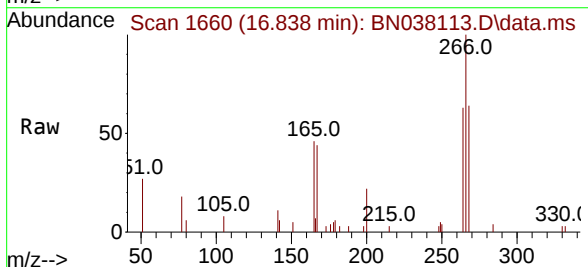
Tgt Ion:266 Resp: 3182

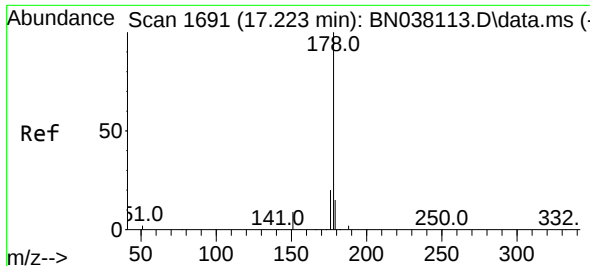
Ion Ratio Lower Upper

266 100

264 61.6 49.3 73.9

268 63.2 50.6 75.8

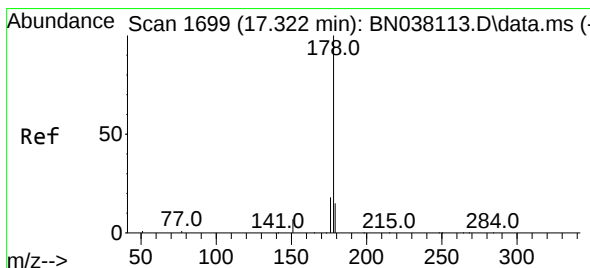
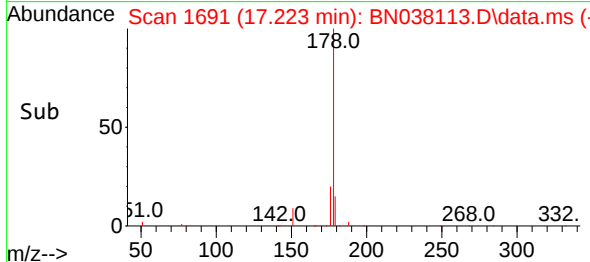
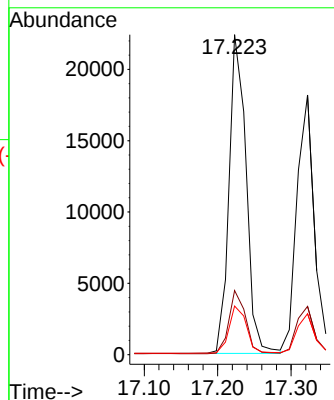
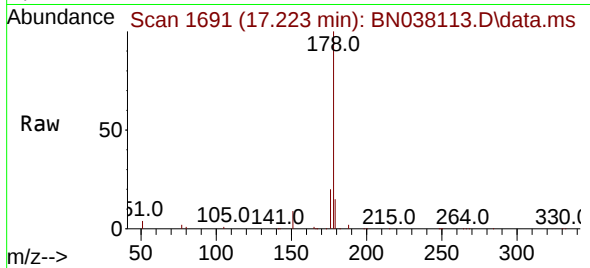




#25  
Phenanthrene  
Concen: 0.385 ng  
RT: 17.223 min Scan# 1691  
Delta R.T. -0.000 min  
Lab File: BN038113.D  
Acq: 28 Oct 2025 14:13

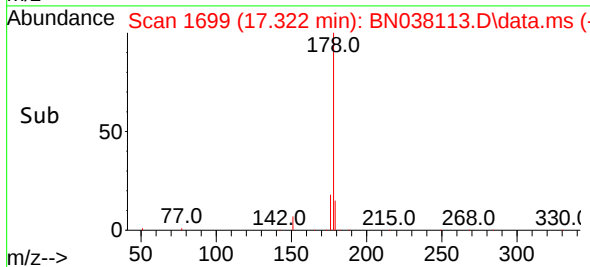
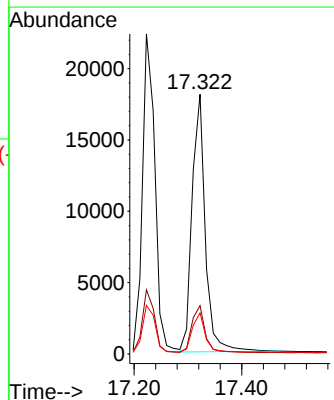
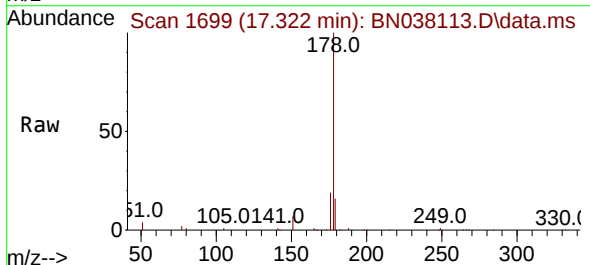
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

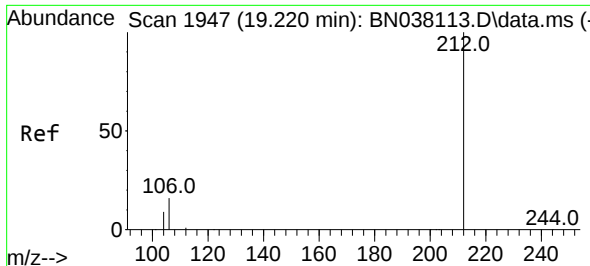
Tgt Ion:178 Resp: 36093  
Ion Ratio Lower Upper  
178 100  
176 19.4 15.5 23.3  
179 15.3 12.2 18.4



#26  
Anthracene  
Concen: 0.376 ng  
RT: 17.322 min Scan# 1699  
Delta R.T. -0.000 min  
Lab File: BN038113.D  
Acq: 28 Oct 2025 14:13

Tgt Ion:178 Resp: 30869  
Ion Ratio Lower Upper  
178 100  
176 18.6 14.9 22.3  
179 14.8 11.8 17.8

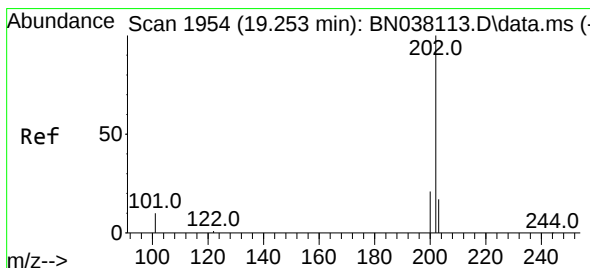
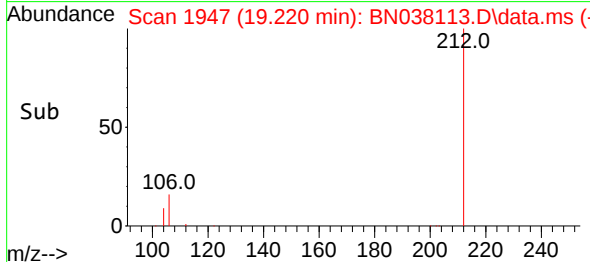
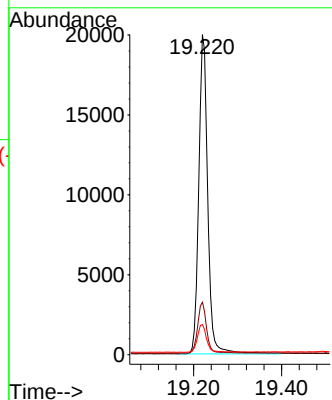
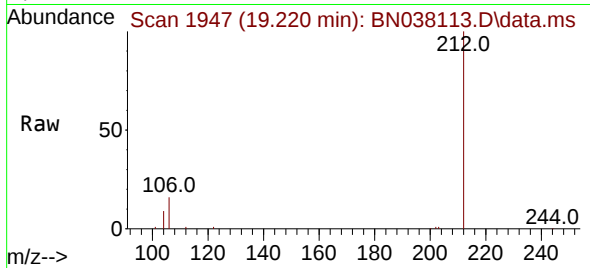




#27  
Fluoranthene-d10  
Concen: 0.379 ng  
RT: 19.220 min Scan# 1947  
Delta R.T. -0.000 min  
Lab File: BN038113.D  
Acq: 28 Oct 2025 14:13

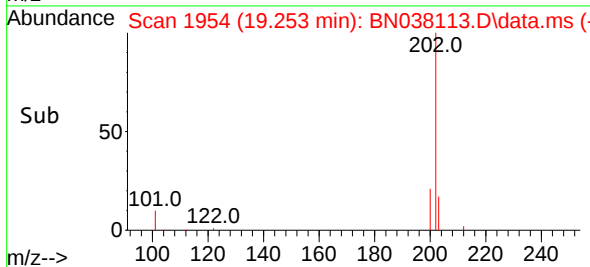
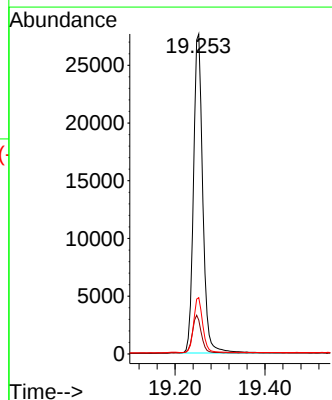
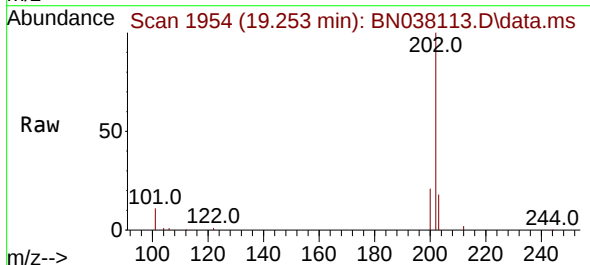
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

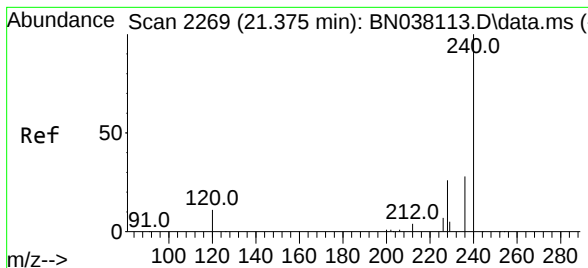
Tgt Ion:212 Resp: 28227  
Ion Ratio Lower Upper  
212 100  
106 15.8 12.6 19.0  
104 8.9 7.1 10.7



#28  
Fluoranthene  
Concen: 0.378 ng  
RT: 19.253 min Scan# 1954  
Delta R.T. -0.000 min  
Lab File: BN038113.D  
Acq: 28 Oct 2025 14:13

Tgt Ion:202 Resp: 39664  
Ion Ratio Lower Upper  
202 100  
101 11.8 9.4 14.2  
203 16.8 13.4 20.2





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.375 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN038113.D

Acq: 28 Oct 2025 14:13

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

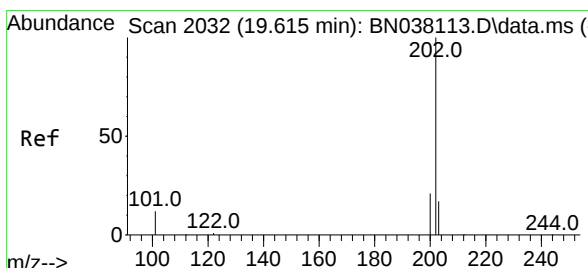
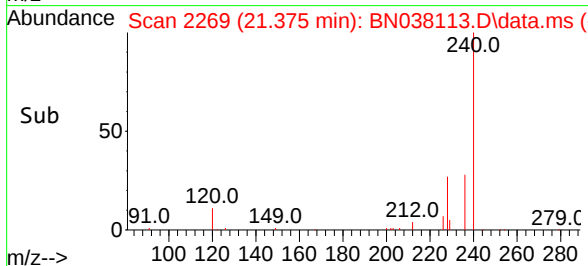
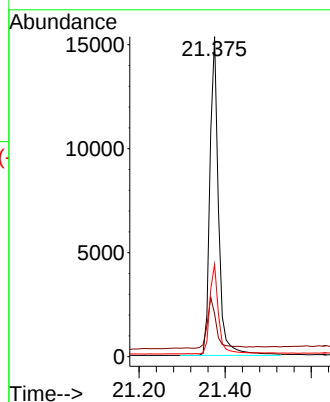
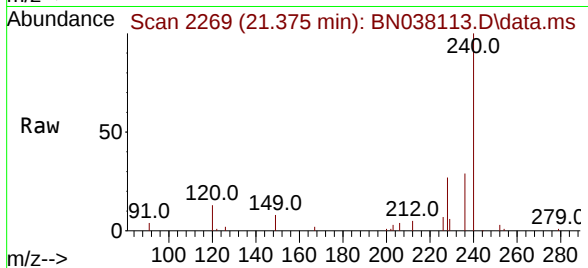
Tgt Ion:240 Resp: 21529

Ion Ratio Lower Upper

240 100

120 13.4 10.7 16.1

236 28.9 23.1 34.7



#30

Pyrene

Concen: 0.408 ng

RT: 19.615 min Scan# 2032

Delta R.T. 0.005 min

Lab File: BN038113.D

Acq: 28 Oct 2025 14:13

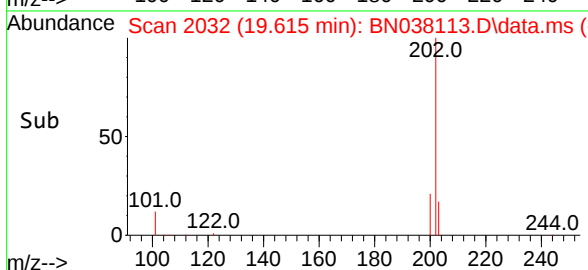
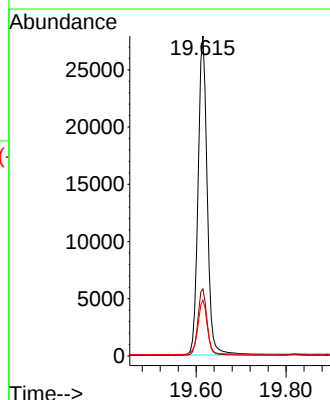
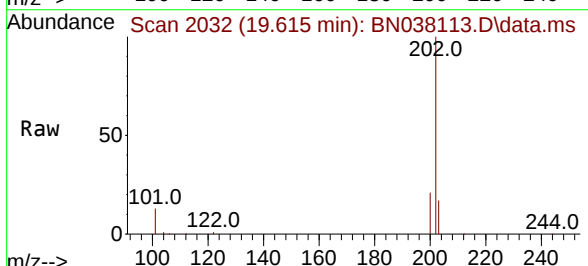
Tgt Ion:202 Resp: 39644

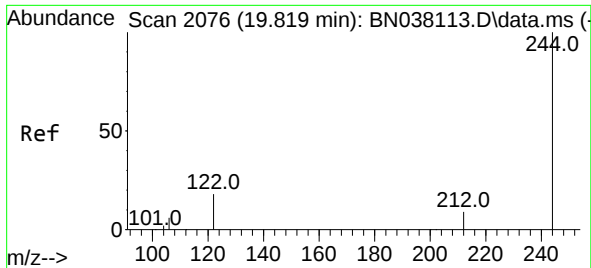
Ion Ratio Lower Upper

202 100

200 20.9 16.7 25.1

203 17.7 14.2 21.2

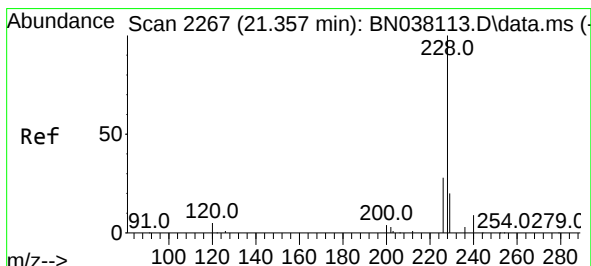
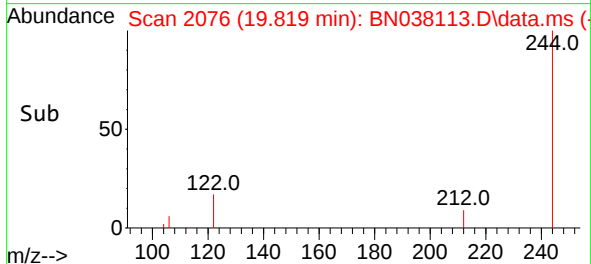
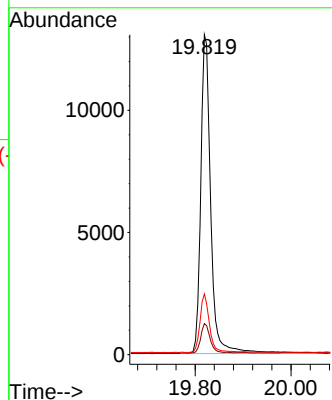
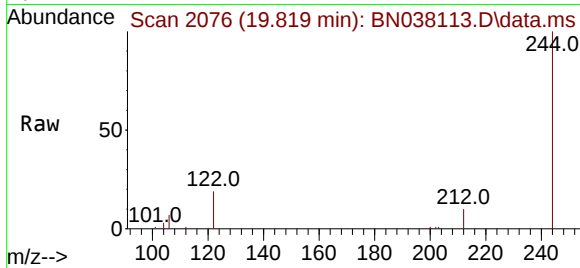




#31  
 Terphenyl-d14  
 Concen: 0.401 ng  
 RT: 19.819 min Scan# 2076  
 Delta R.T. -0.000 min  
 Lab File: BN038113.D  
 Acq: 28 Oct 2025 14:13

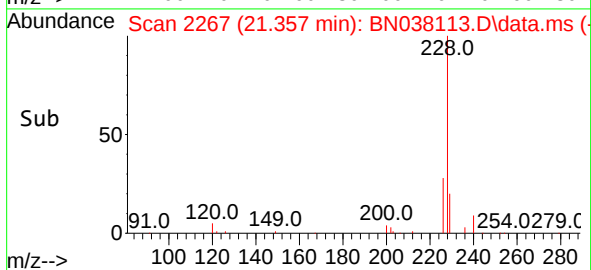
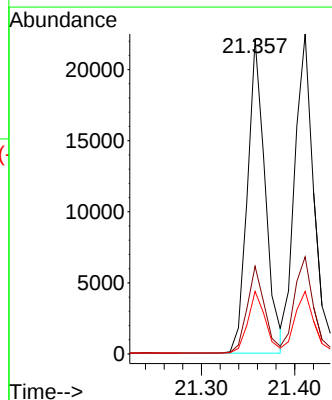
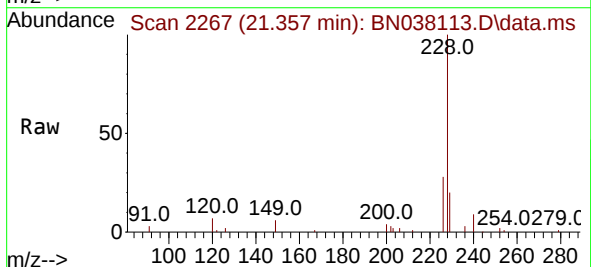
Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICCC0.4

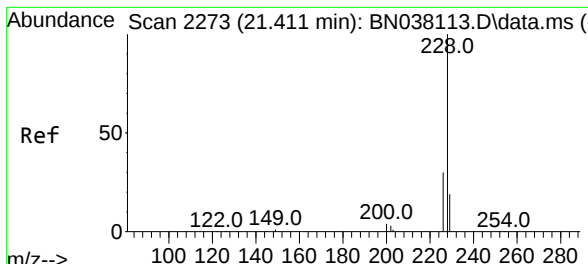
Tgt Ion:244 Resp: 18767  
 Ion Ratio Lower Upper  
 244 100  
 212 9.7 7.8 11.6  
 122 19.0 15.2 22.8



#32  
 Benzo(a)anthracene  
 Concen: 0.381 ng  
 RT: 21.357 min Scan# 2267  
 Delta R.T. -0.000 min  
 Lab File: BN038113.D  
 Acq: 28 Oct 2025 14:13

Tgt Ion:228 Resp: 29230  
 Ion Ratio Lower Upper  
 228 100  
 226 27.8 22.2 33.4  
 229 19.8 15.8 23.8



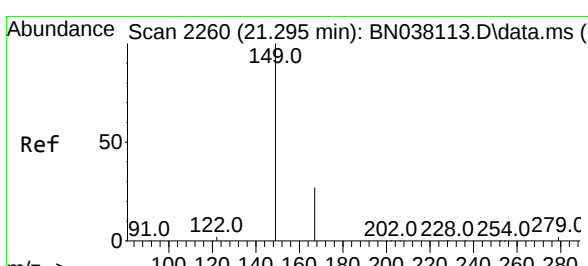
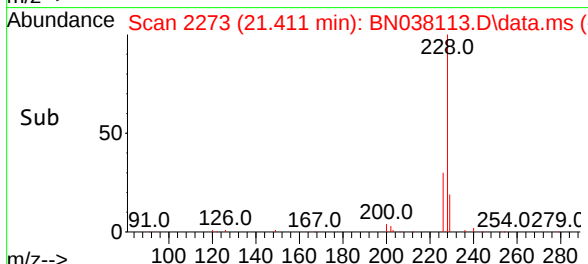
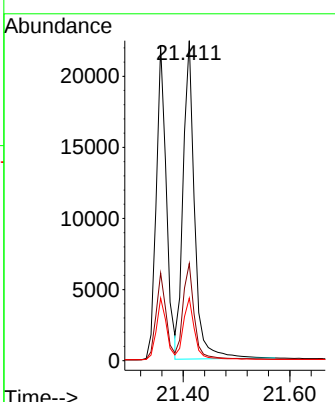
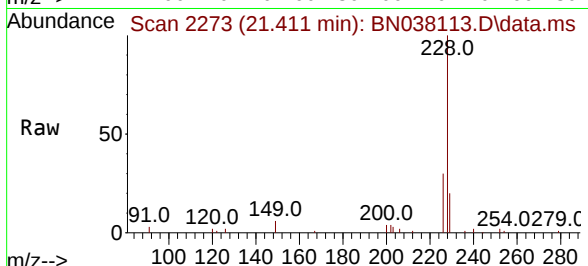


#33  
 Chrysene  
 Concen: 0.398 ng  
 RT: 21.411 min Scan# 21  
 Delta R.T. -0.000 min  
 Lab File: BN038113.D  
 Acq: 28 Oct 2025 14:13

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC0.4

Tgt Ion:228 Resp: 33214

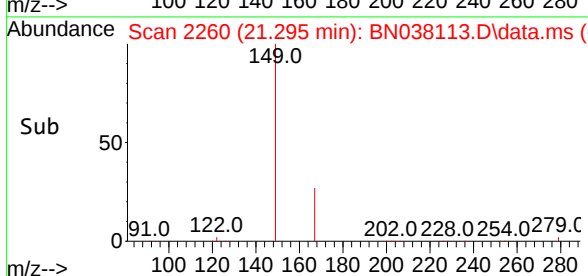
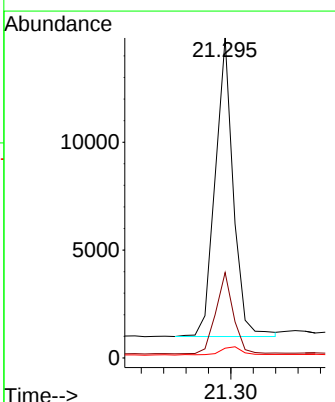
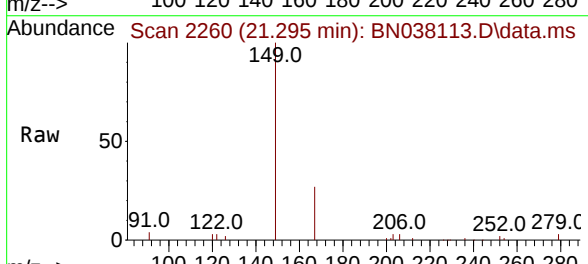
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 228 | 100   |       |       |
| 226 | 30.4  | 24.3  | 36.5  |
| 229 | 19.6  | 15.7  | 23.5  |

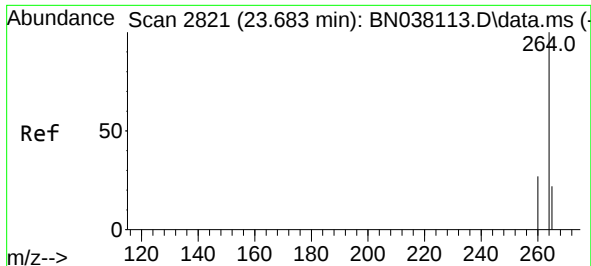


#34  
 Bis(2-ethylhexyl)phthalate  
 Concen: 0.384 ng  
 RT: 21.295 min Scan# 2260  
 Delta R.T. -0.000 min  
 Lab File: BN038113.D  
 Acq: 28 Oct 2025 14:13

Tgt Ion:149 Resp: 15540

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 149 | 100   |       |       |
| 167 | 26.4  | 21.1  | 31.7  |
| 279 | 3.6   | 2.9   | 4.3   |

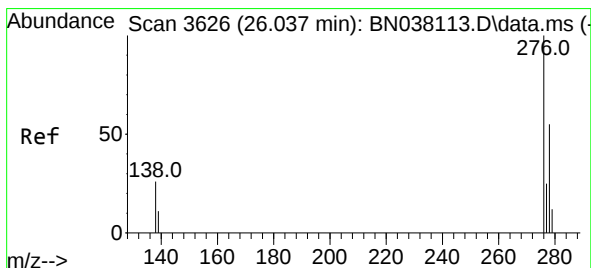
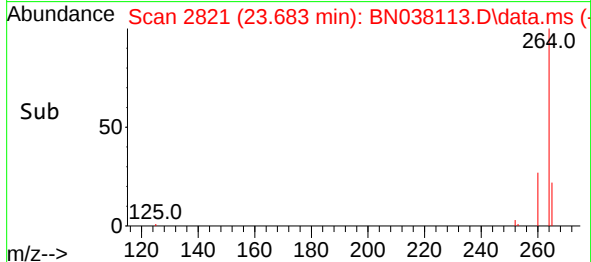
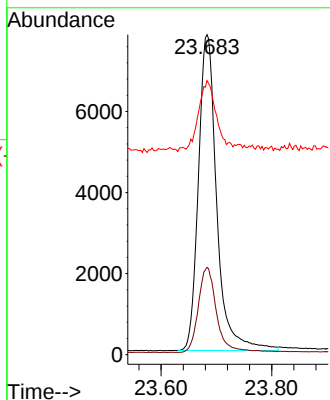
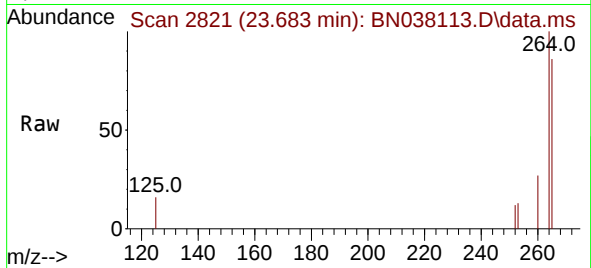




#35  
 Perylene-d12  
 Concen: 0.400 ng  
 RT: 23.683 min Scan# 21  
 Delta R.T. 0.003 min  
 Lab File: BN038113.D  
 Acq: 28 Oct 2025 14:13

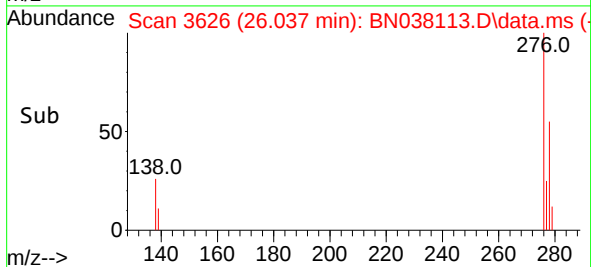
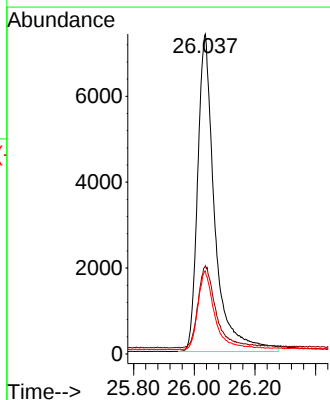
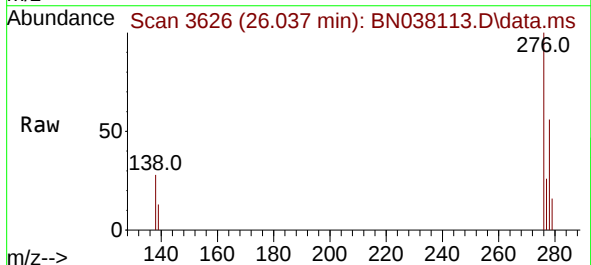
Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC0.4

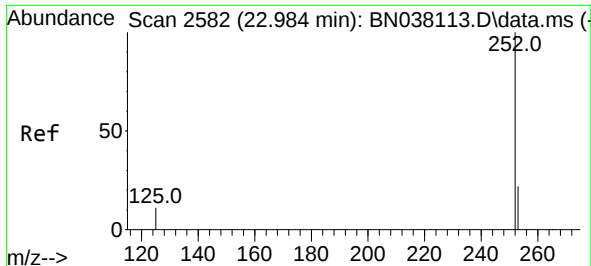
Tgt Ion:264 Resp: 17966  
 Ion Ratio Lower Upper  
 264 100  
 260 27.3 21.8 32.8  
 265 85.7 68.6 102.8



#36  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.390 ng  
 RT: 26.037 min Scan# 3626  
 Delta R.T. 0.003 min  
 Lab File: BN038113.D  
 Acq: 28 Oct 2025 14:13

Tgt Ion:276 Resp: 28812  
 Ion Ratio Lower Upper  
 276 100  
 138 26.7 21.4 32.0  
 277 24.0 19.2 28.8





#37

Benzo(b)fluoranthene

Concen: 0.381 ng

RT: 22.984 min Scan# 2582

Delta R.T. 0.003 min

Lab File: BN038113.D

Acq: 28 Oct 2025 14:13

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

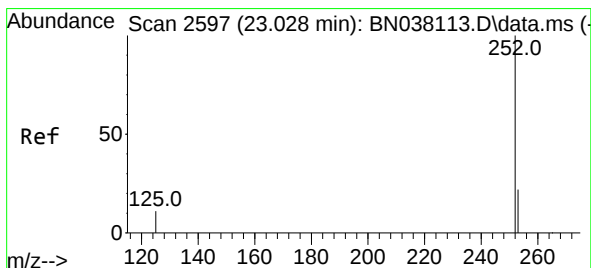
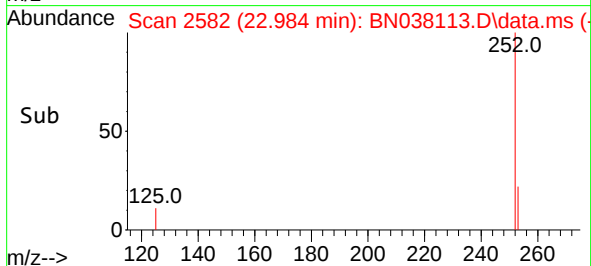
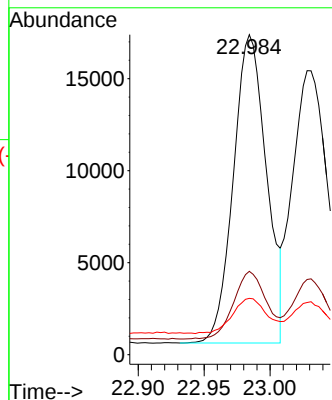
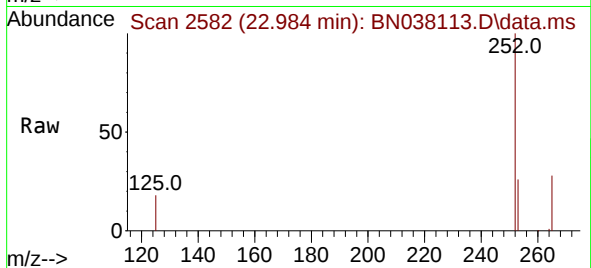
Tgt Ion:252 Resp: 29283

Ion Ratio Lower Upper

252 100

253 26.1 20.9 31.3

125 17.6 14.1 21.1



#38

Benzo(k)fluoranthene

Concen: 0.376 ng

RT: 23.028 min Scan# 2597

Delta R.T. -0.000 min

Lab File: BN038113.D

Acq: 28 Oct 2025 14:13

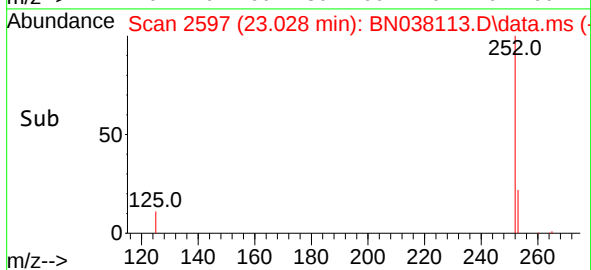
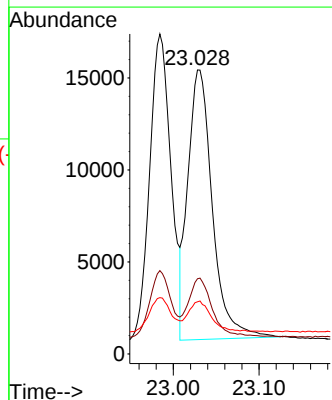
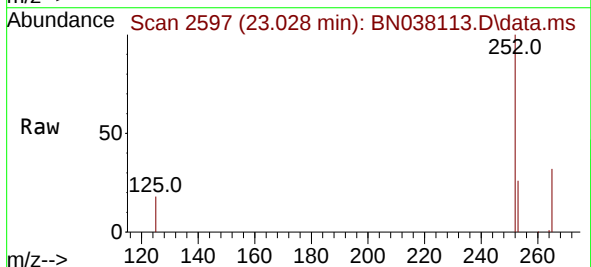
Tgt Ion:252 Resp: 29088

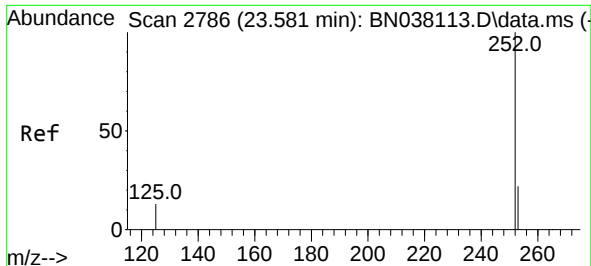
Ion Ratio Lower Upper

252 100

253 26.5 21.2 31.8

125 18.3 14.6 22.0

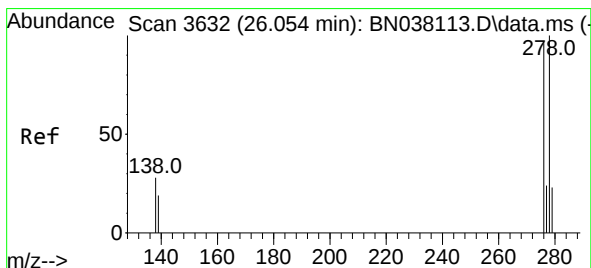
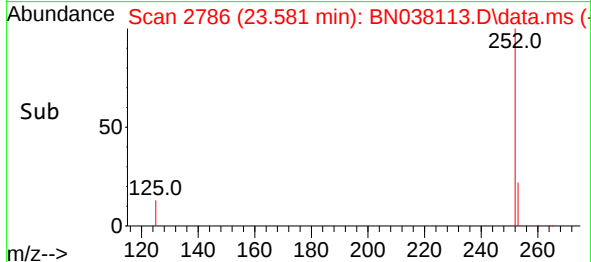
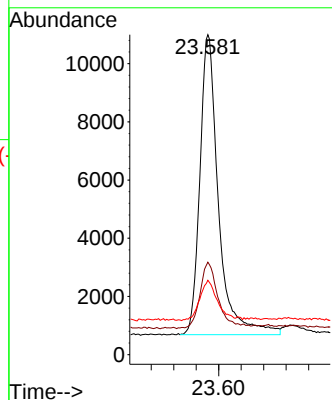
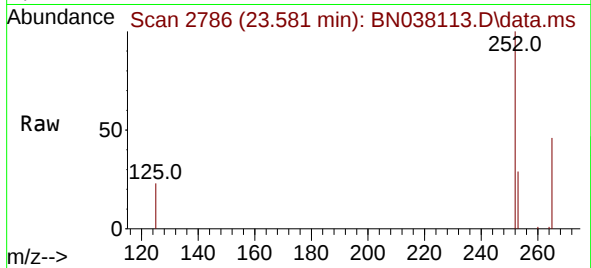




#39  
Benzo(a)pyrene  
Concen: 0.384 ng  
RT: 23.581 min Scan# 21  
Delta R.T. 0.003 min  
Lab File: BN038113.D  
Acq: 28 Oct 2025 14:13

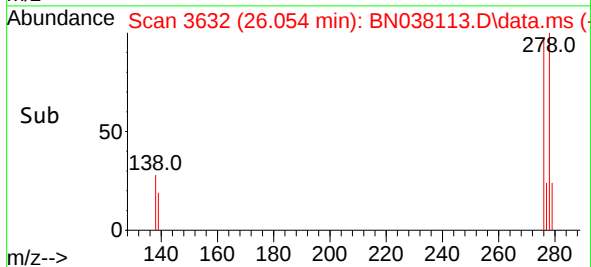
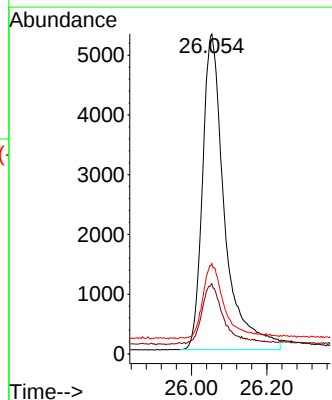
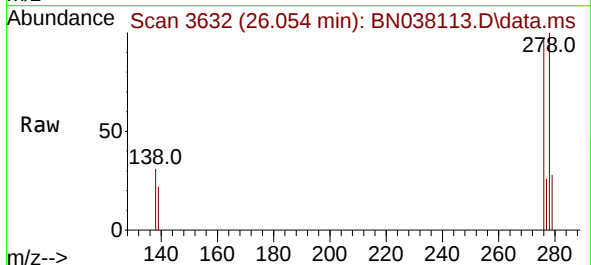
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

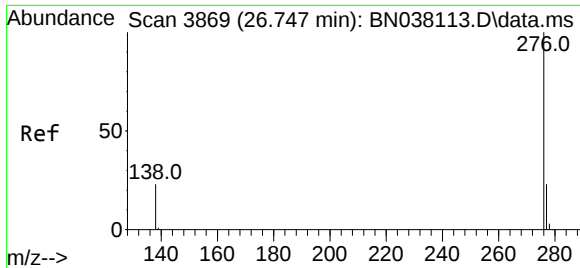
Tgt Ion:252 Resp: 23635  
Ion Ratio Lower Upper  
252 100  
253 28.9 23.1 34.7  
125 23.3 18.6 28.0



#40  
Dibenzo(a,h)anthracene  
Concen: 0.378 ng  
RT: 26.054 min Scan# 3632  
Delta R.T. 0.006 min  
Lab File: BN038113.D  
Acq: 28 Oct 2025 14:13

Tgt Ion:278 Resp: 21487  
Ion Ratio Lower Upper  
278 100  
139 22.0 17.6 26.4  
279 28.2 22.6 33.8





#41

Benzo(g,h,i)perylene

Concen: 0.395 ng

RT: 26.747 min Scan# 3869

Delta R.T. -0.003 min

Lab File: BN038113.D

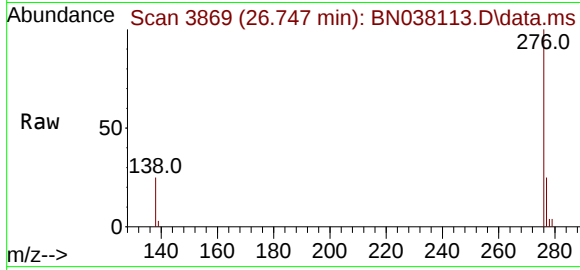
Acq: 28 Oct 2025 14:13

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4



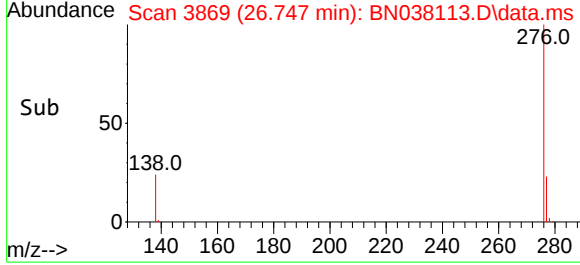
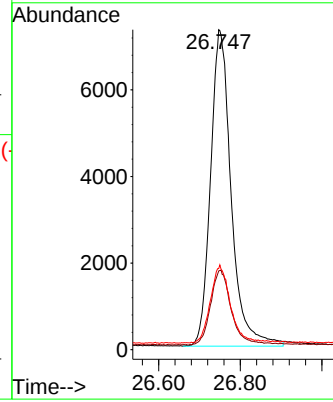
Tgt Ion:276 Resp: 25622

Ion Ratio Lower Upper

276 100

277 24.6 19.7 29.5

138 25.3 20.2 30.4



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN102825\  
 Data File : BN038114.D  
 Acq On : 28 Oct 2025 14:49  
 Operator : RC/JU  
 Sample : SSTDICC0.8  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC0.8

Manual Integrations  
 APPROVED

Reviewed By :Rahul Chavli 10/29/2025  
 Supervised By :mohammad ahmed 10/30/2025

Quant Time: Oct 28 17:31:46 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN102825.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Oct 28 17:15:13 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.775  | 152  | 9110     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.584 | 136  | 27131    | 0.400 | ng    | 0.01     |
| 13) Acenaphthene-d10          | 14.441 | 164  | 14920    | 0.400 | ng    | 0.01     |
| 19) Phenanthrene-d10          | 17.186 | 188  | 28506    | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 21.375 | 240  | 23535    | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.683 | 264  | 20307    | 0.400 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.348  | 112  | 16552    | 0.771 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.937  | 99   | 19989    | 0.765 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.929  | 82   | 16332    | 0.746 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 12.177 | 152  | 29806    | 0.769 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.932 | 330  | 4525     | 0.736 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 13.062 | 172  | 46843    | 0.784 | ng    | 0.01     |
| 27) Fluoranthene-d10          | 19.220 | 212  | 55912    | 0.778 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.819 | 244  | 37975    | 0.743 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| Target Compounds              |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.254  | 88   | 7707     | 0.819 | ng    | 99       |
| 3) n-Nitrosodimethylamine     | 3.564  | 42   | 9598     | 0.792 | ng    | # 100    |
| 6) bis(2-Chloroethyl)ether    | 7.197  | 93   | 20444    | 0.796 | ng    | 99       |
| 9) Naphthalene                | 10.626 | 128  | 58627    | 0.784 | ng    | 99       |
| 10) Hexachlorobutadiene       | 10.925 | 225  | 9875     | 0.783 | ng    | # 98     |
| 12) 2-Methylnaphthalene       | 12.248 | 142  | 38674    | 0.776 | ng    | 98       |
| 16) Acenaphthylene            | 14.152 | 152  | 52624    | 0.779 | ng    | 99       |
| 17) Acenaphthene              | 14.494 | 154  | 36845    | 0.779 | ng    | 100      |
| 18) Fluorene                  | 15.489 | 166  | 49204    | 0.794 | ng    | 100      |
| 20) 4,6-Dinitro-2-methylph... | 15.560 | 198  | 2898     | 0.689 | ng    | # 69     |
| 21) 4-Bromophenyl-phenylether | 16.379 | 248  | 14571    | 0.780 | ng    | 97       |
| 22) Hexachlorobenzene         | 16.503 | 284  | 16700    | 0.786 | ng    | 99       |
| 23) Atrazine                  | 16.652 | 200  | 10204    | 0.745 | ng    | 99       |
| 24) Pentachlorophenol         | 16.838 | 266  | 6470     | 0.707 | ng    | 99       |
| 25) Phenanthrene              | 17.223 | 178  | 70455    | 0.779 | ng    | 100      |
| 26) Anthracene                | 17.322 | 178  | 60270    | 0.761 | ng    | 100      |
| 28) Fluoranthene              | 19.253 | 202  | 79478    | 0.786 | ng    | 100      |
| 30) Pyrene                    | 19.615 | 202  | 78307    | 0.737 | ng    | 100      |
| 32) Benzo(a)anthracene        | 21.357 | 228  | 64140    | 0.764 | ng    | 100      |
| 33) Chrysene                  | 21.411 | 228  | 71675    | 0.787 | ng    | 100      |
| 34) Bis(2-ethylhexyl)phtha... | 21.295 | 149  | 32963    | 0.745 | ng    | 99       |
| 36) Indeno(1,2,3-cd)pyrene    | 26.039 | 276  | 65796    | 0.789 | ng    | 99       |
| 37) Benzo(b)fluoranthene      | 22.984 | 252  | 69912m   | 0.805 | ng    |          |
| 38) Benzo(k)fluoranthene      | 23.031 | 252  | 67771    | 0.776 | ng    | # 93     |
| 39) Benzo(a)pyrene            | 23.578 | 252  | 53367    | 0.768 | ng    | # 90     |
| 40) Dibenzo(a,h)anthracene    | 26.054 | 278  | 50344    | 0.784 | ng    | 95       |
| 41) Benzo(g,h,i)perylene      | 26.753 | 276  | 58155    | 0.793 | ng    | 99       |
| -----                         |        |      |          |       |       |          |

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

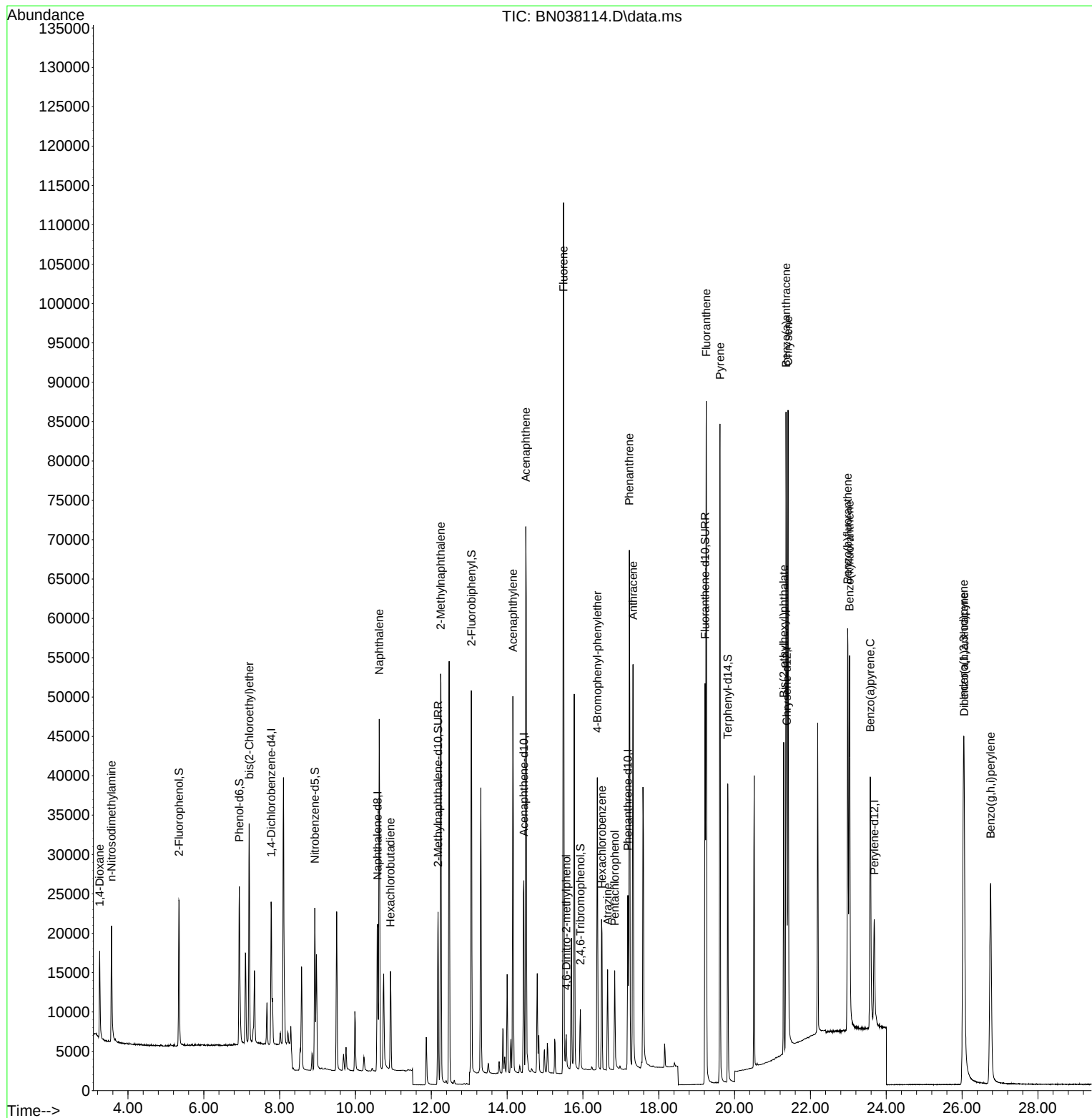
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Data File : BN038114.D  
Acq On : 28 Oct 2025 14:49  
Operator : RC/JU  
Sample : SSTDICC0.8  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

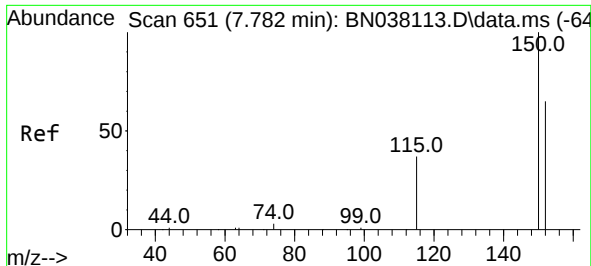
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

Quant Time: Oct 28 17:31:46 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN102825.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Oct 28 17:15:13 2025  
Response via : Initial Calibration

Manual Integrations  
APPROVED

Reviewed By :Rahul Chavli 10/29/2025  
Supervised By :mohammad ahmed 10/30/2025





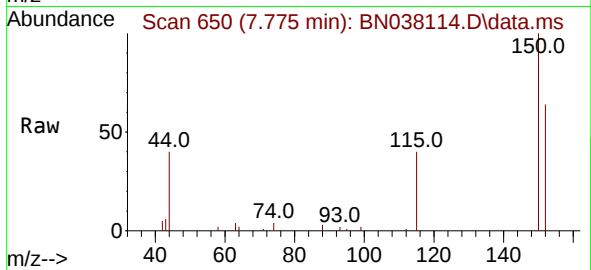
#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.775 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: BN038114.D  
Acq: 28 Oct 2025 14:49

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8

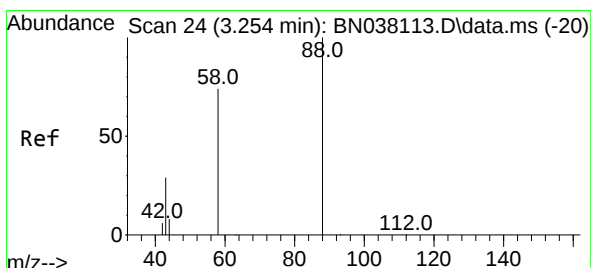
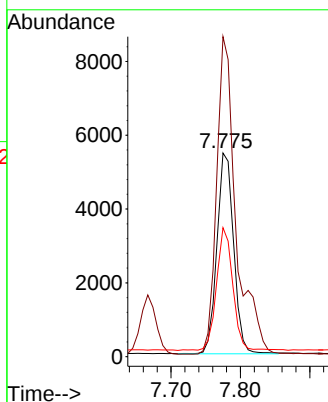
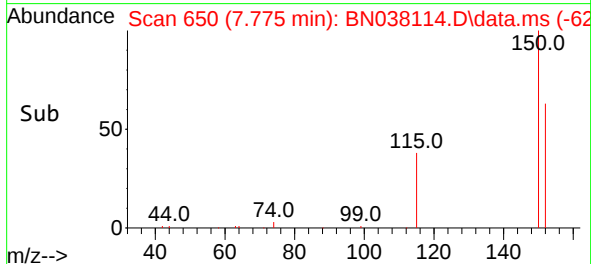


Tgt Ion:152 Resp: 9110  
Ion Ratio Lower Upper  
152 100  
150 157.1 122.3 183.5  
115 63.4 47.4 71.0

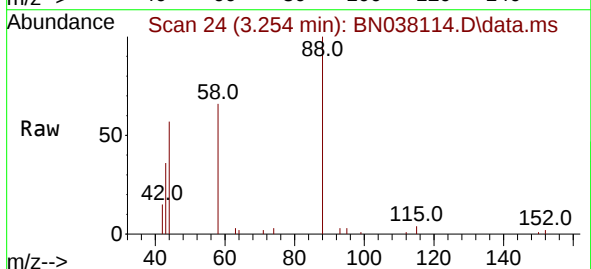
Manual Integrations

APPROVED

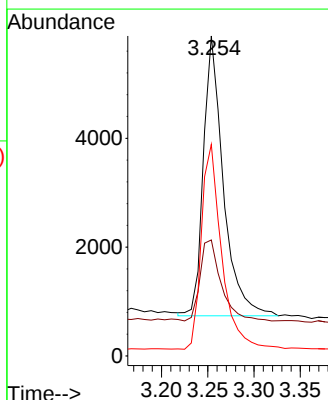
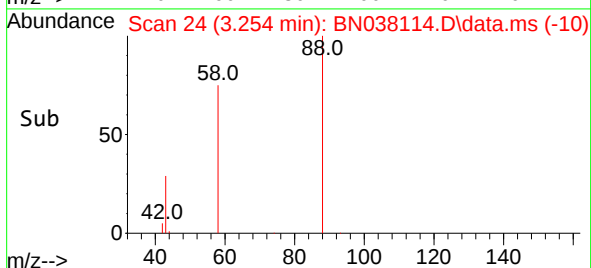
Reviewed By :Rahul Chavli 10/29/2025  
Supervised By :mohammad ahmed 10/30/2025

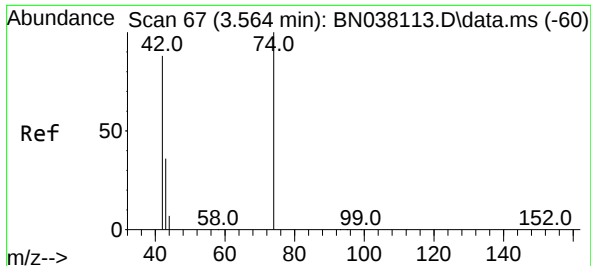


#2  
1,4-Dioxane  
Concen: 0.819 ng  
RT: 3.254 min Scan# 24  
Delta R.T. -0.000 min  
Lab File: BN038114.D  
Acq: 28 Oct 2025 14:49



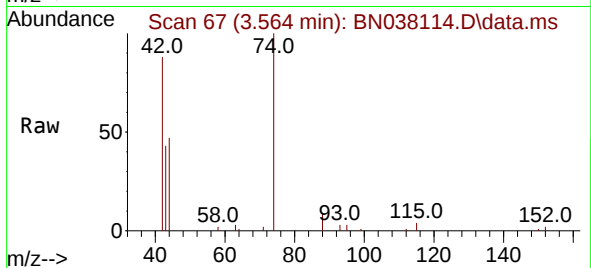
Tgt Ion: 88 Resp: 7707  
Ion Ratio Lower Upper  
88 100  
43 30.6 24.3 36.5  
58 74.3 60.4 90.6





#3  
n-Nitrosodimethylamine  
Concen: 0.792 ng  
RT: 3.564 min Scan# 61  
Delta R.T. 0.007 min  
Lab File: BN038114.D  
Acq: 28 Oct 2025 14:49

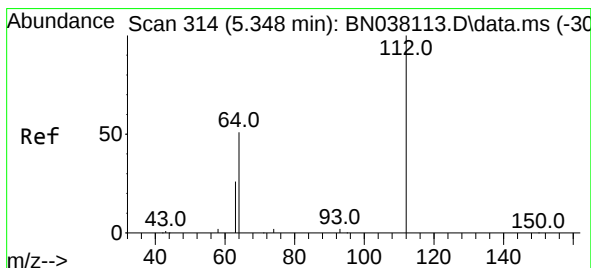
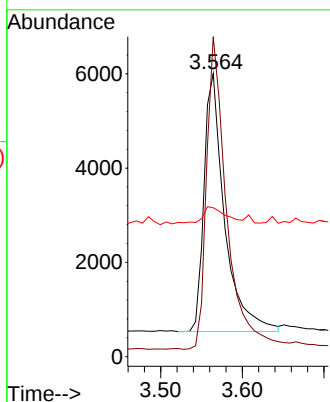
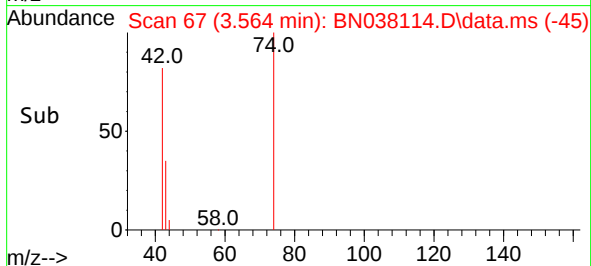
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8



Tgt Ion: 42 Resp: 9598  
Ion Ratio Lower Upper  
42 100  
74 120.8 96.8 145.2  
44 8.8 5.3 7.9

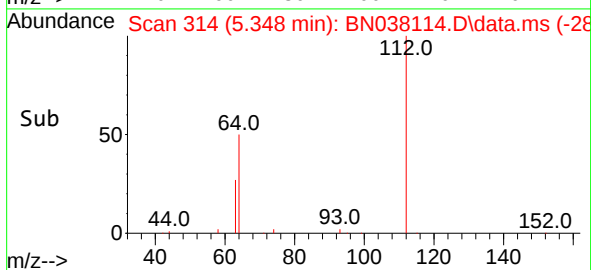
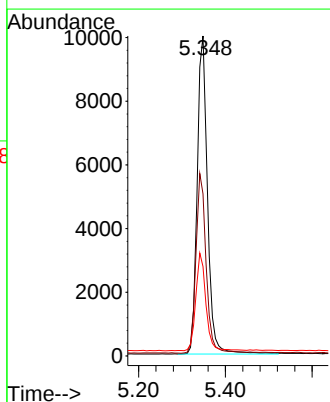
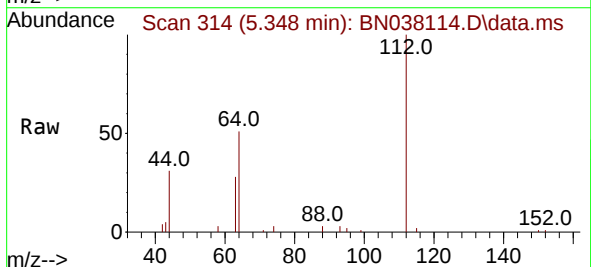
Manual Integrations  
APPROVED

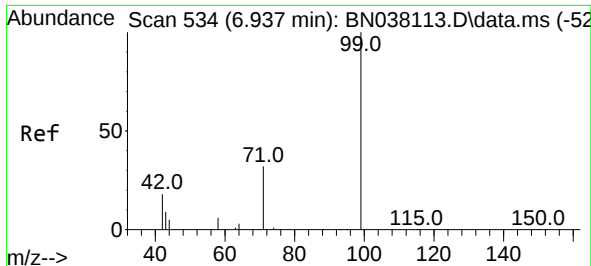
Reviewed By :Rahul Chavli 10/29/2025  
Supervised By :mohammad ahmed 10/30/2025



#4  
2-Fluorophenol  
Concen: 0.771 ng  
RT: 5.348 min Scan# 314  
Delta R.T. -0.000 min  
Lab File: BN038114.D  
Acq: 28 Oct 2025 14:49

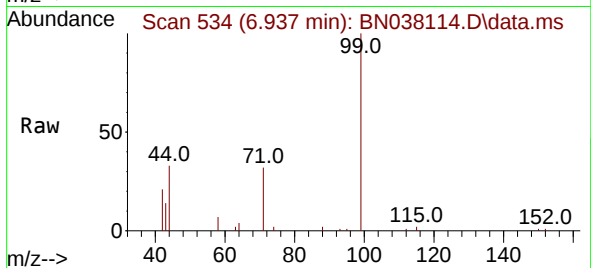
Tgt Ion:112 Resp: 16552  
Ion Ratio Lower Upper  
112 100  
64 55.7 45.4 68.0  
63 30.2 23.2 34.8





#5  
Phenol-d6  
Concen: 0.765 ng  
RT: 6.937 min Scan# 51  
Delta R.T. -0.000 min  
Lab File: BN038114.D  
Acq: 28 Oct 2025 14:49

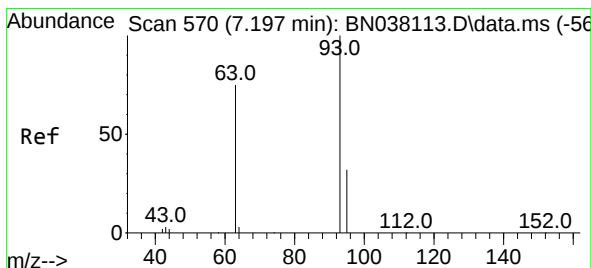
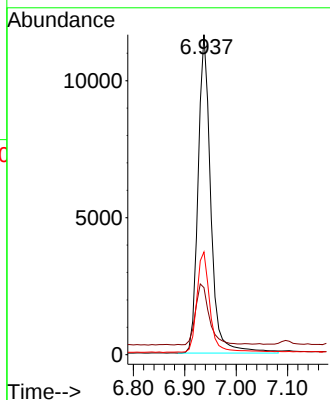
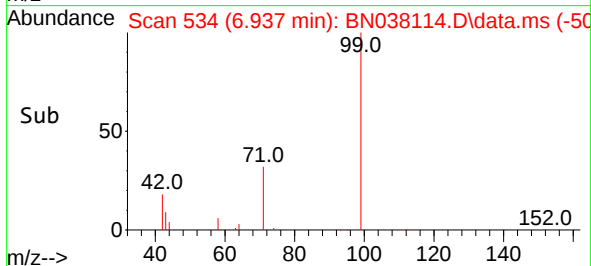
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8



Tgt Ion: 99 Resp: 19989  
Ion Ratio Lower Upper  
99 100  
42 20.7 16.6 24.8  
71 33.2 25.4 38.2

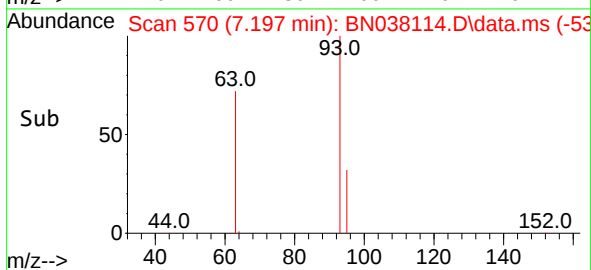
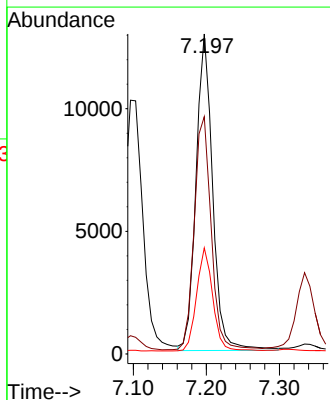
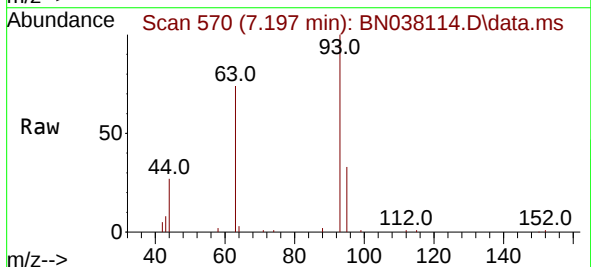
Manual Integrations  
APPROVED

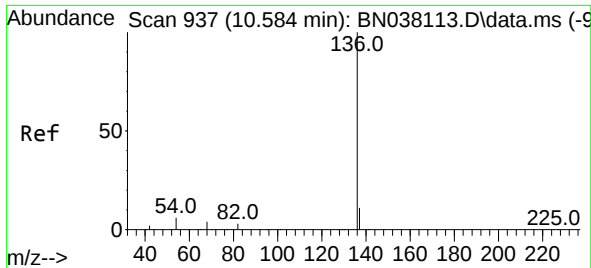
Reviewed By :Rahul Chavli 10/29/2025  
Supervised By :mohammad ahmed 10/30/2025



#6  
bis(2-Chloroethyl)ether  
Concen: 0.796 ng  
RT: 7.197 min Scan# 570  
Delta R.T. -0.000 min  
Lab File: BN038114.D  
Acq: 28 Oct 2025 14:49

Tgt Ion: 93 Resp: 20444  
Ion Ratio Lower Upper  
93 100  
63 75.0 59.3 88.9  
95 31.6 25.2 37.8





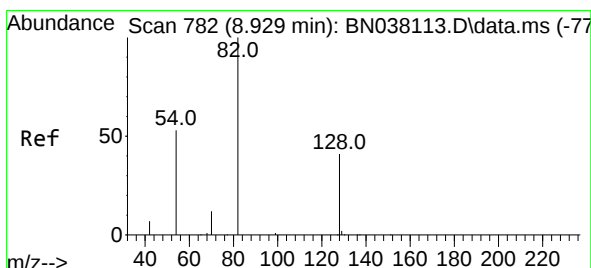
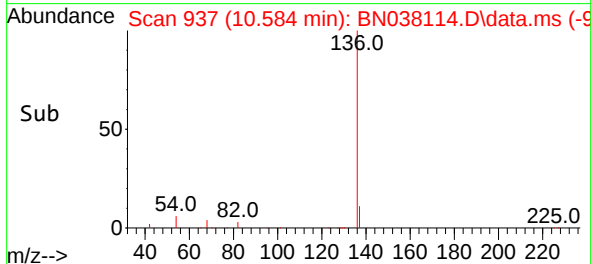
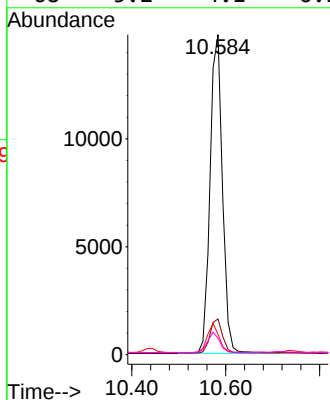
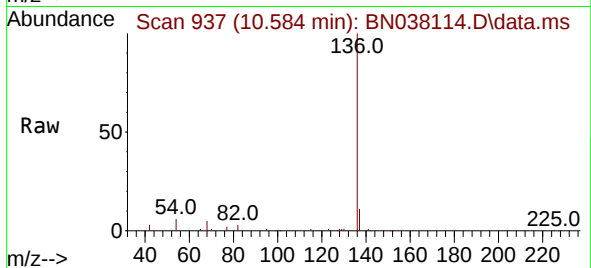
#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.584 min Scan# 911  
Delta R.T. 0.011 min  
Lab File: BN038114.D  
Acq: 28 Oct 2025 14:49

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 2713  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 11.1  | 9.0   | 13.4  |
| 54       | 6.3   | 5.2   | 7.8   |
| 68       | 5.2   | 4.1   | 6.1   |

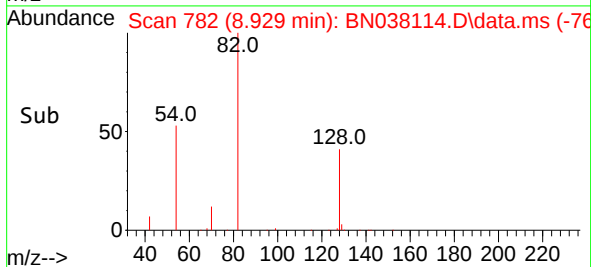
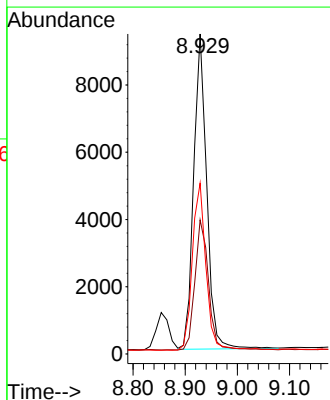
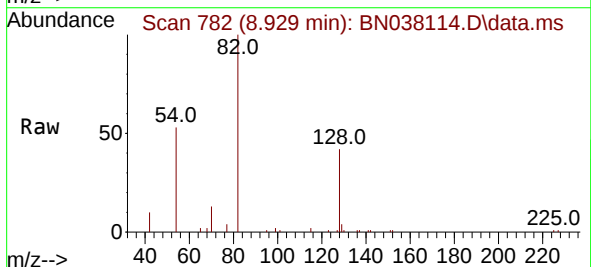
Manual Integrations  
APPROVED

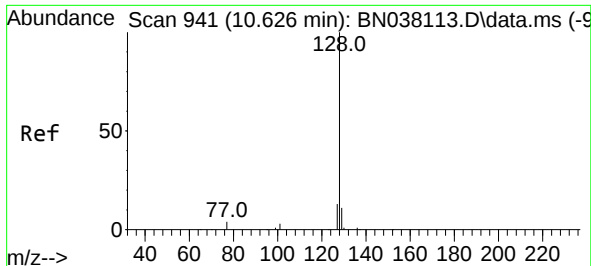
Reviewed By :Rahul Chavli 10/29/2025  
Supervised By :mohammad ahmed 10/30/2025



#8  
Nitrobenzene-d5  
Concen: 0.746 ng  
RT: 8.929 min Scan# 782  
Delta R.T. -0.000 min  
Lab File: BN038114.D  
Acq: 28 Oct 2025 14:49

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 16332 |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 41.9  | 34.1  | 51.1  |
| 54       | 53.4  | 43.5  | 65.3  |





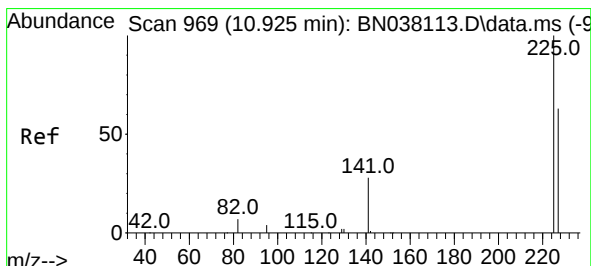
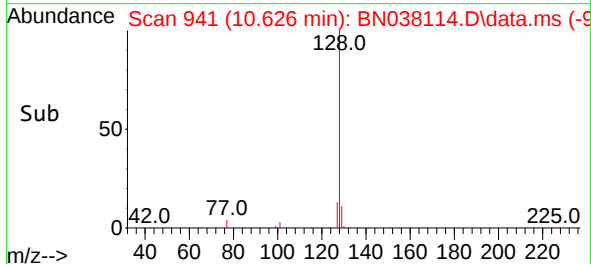
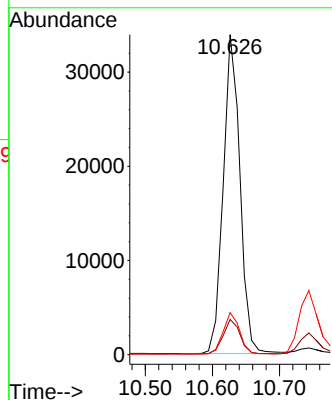
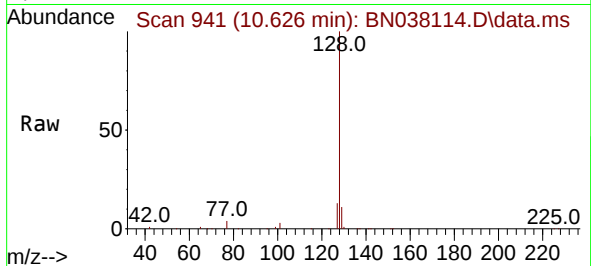
#9  
Naphthalene  
Concen: 0.784 ng  
RT: 10.626 min Scan# 941  
Delta R.T. -0.000 min  
Lab File: BN038114.D  
Acq: 28 Oct 2025 14:49

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

Tgt Ion:128 Resp: 5862  
Ion Ratio Lower Upper  
128 100  
129 11.0 9.1 13.7  
127 13.2 10.5 15.7

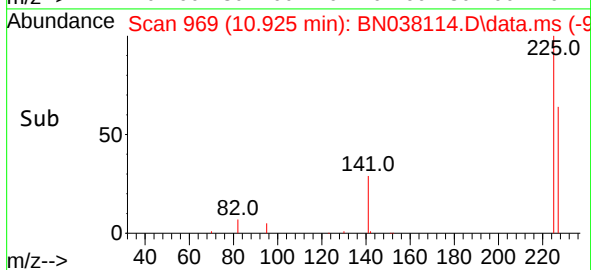
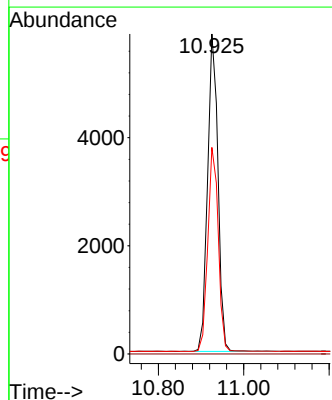
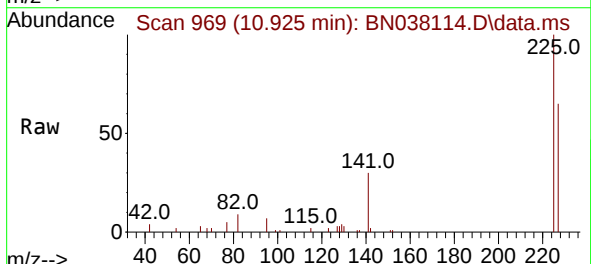
Manual Integrations  
APPROVED

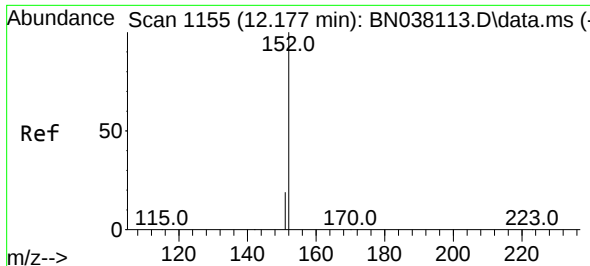
Reviewed By :Rahul Chavli 10/29/2025  
Supervised By :mohammad ahmed 10/30/2025



#10  
Hexachlorobutadiene  
Concen: 0.783 ng  
RT: 10.925 min Scan# 969  
Delta R.T. -0.000 min  
Lab File: BN038114.D  
Acq: 28 Oct 2025 14:49

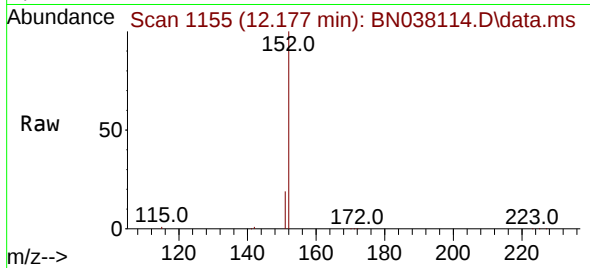
Tgt Ion:225 Resp: 9875  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 64.8 50.3 75.5





#11  
2-Methylnaphthalene-d10  
Concen: 0.769 ng  
RT: 12.177 min Scan# 1155  
Delta R.T. -0.000 min  
Lab File: BN038114.D  
Acq: 28 Oct 2025 14:49

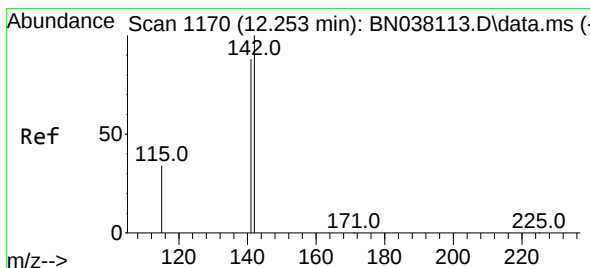
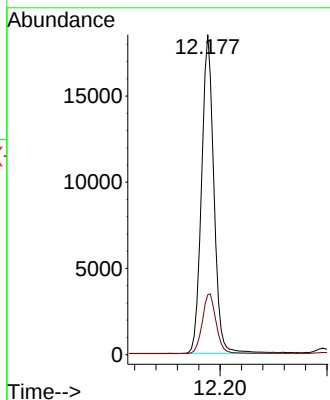
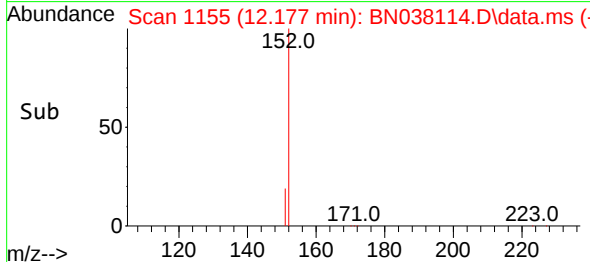
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8



Tgt Ion:152 Resp: 29800  
Ion Ratio Lower Upper  
152 100  
151 21.2 16.8 25.2

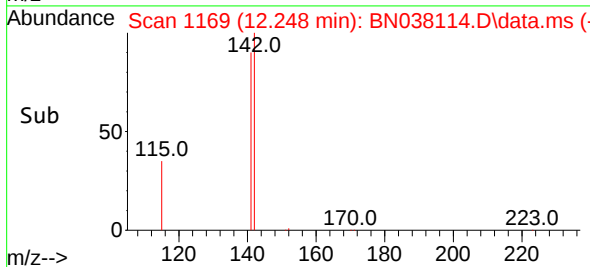
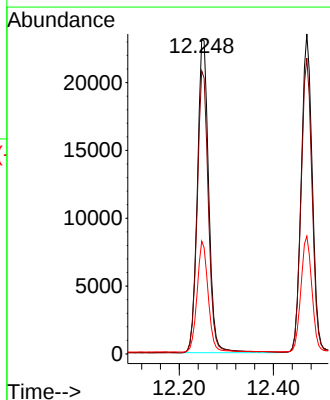
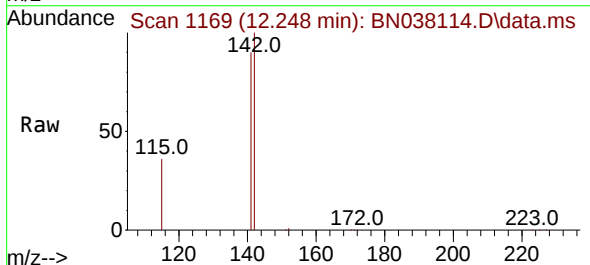
Manual Integrations  
APPROVED

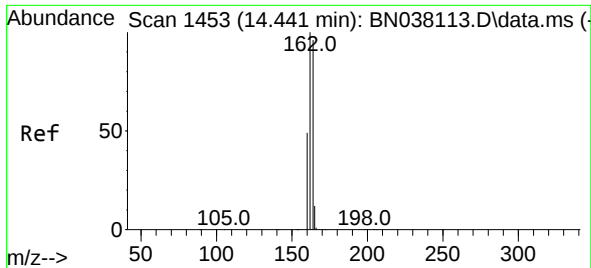
Reviewed By :Rahul Chavli 10/29/2025  
Supervised By :mohammad ahmed 10/30/2025



#12  
2-Methylnaphthalene  
Concen: 0.776 ng  
RT: 12.248 min Scan# 1169  
Delta R.T. -0.000 min  
Lab File: BN038114.D  
Acq: 28 Oct 2025 14:49

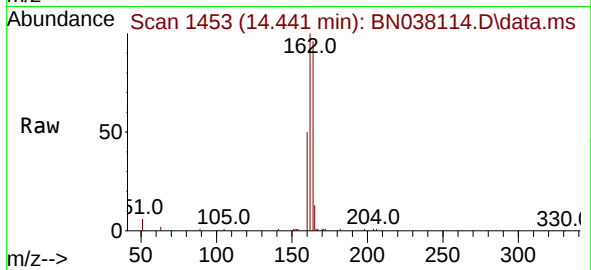
Tgt Ion:142 Resp: 38674  
Ion Ratio Lower Upper  
142 100  
141 90.1 70.3 105.5  
115 35.9 27.8 41.6





#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.441 min Scan# 1453  
Delta R.T. 0.011 min  
Lab File: BN038114.D  
Acq: 28 Oct 2025 14:49

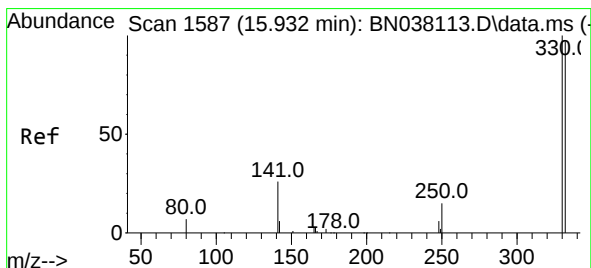
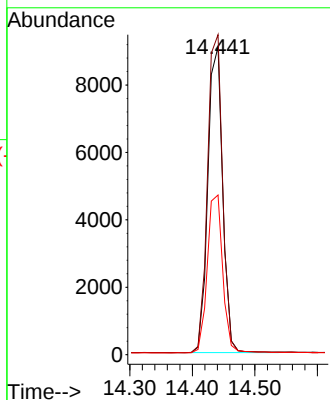
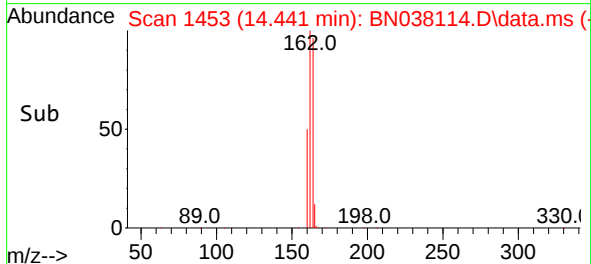
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8



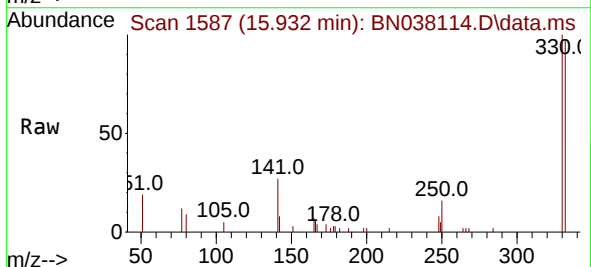
Tgt Ion:164 Resp: 14920  
Ion Ratio Lower Upper  
164 100  
162 104.0 83.0 124.4  
160 51.9 40.7 61.1

Manual Integrations  
APPROVED

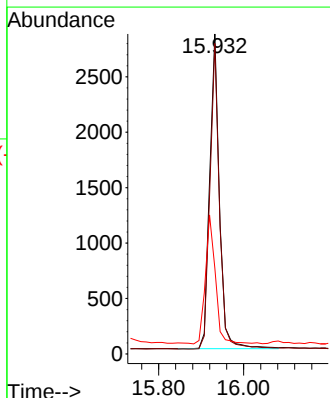
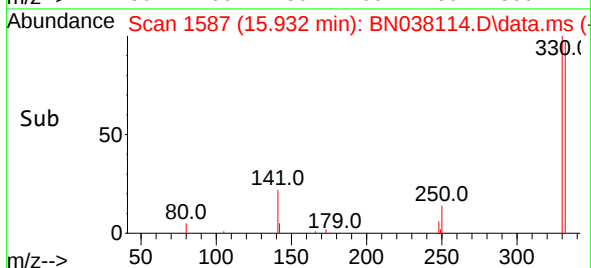
Reviewed By :Rahul Chavli 10/29/2025  
Supervised By :mohammad ahmed 10/30/2025

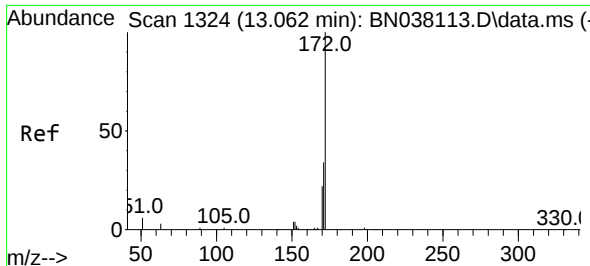


#14  
2,4,6-Tribromophenol  
Concen: 0.736 ng  
RT: 15.932 min Scan# 1587  
Delta R.T. 0.000 min  
Lab File: BN038114.D  
Acq: 28 Oct 2025 14:49



Tgt Ion:330 Resp: 4525  
Ion Ratio Lower Upper  
330 100  
332 95.3 76.6 114.8  
141 41.9 34.1 51.1





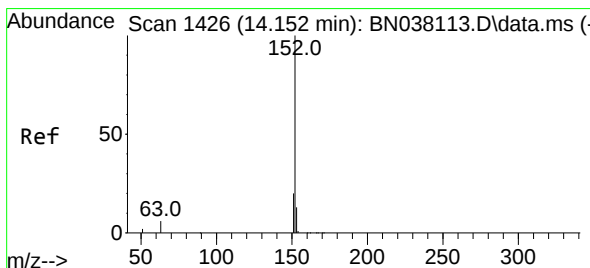
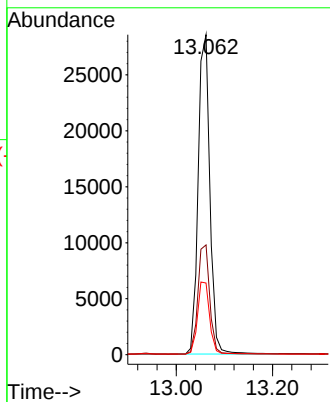
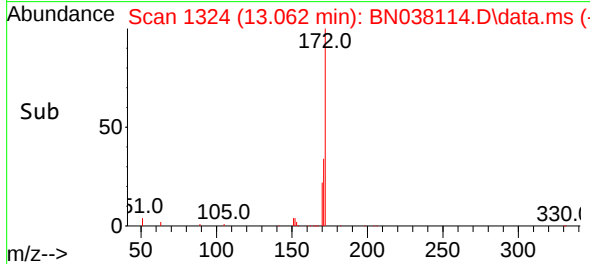
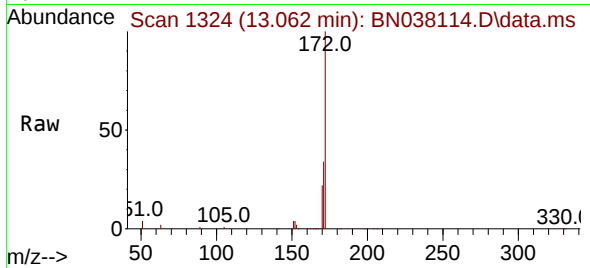
#15  
2-Fluorobiphenyl  
Concen: 0.784 ng  
RT: 13.062 min Scan# 11  
Delta R.T. 0.011 min  
Lab File: BN038114.D  
Acq: 28 Oct 2025 14:49

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

Tgt Ion:172 Resp: 4684  
Ion Ratio Lower Upper  
172 100  
171 34.3 27.8 41.6  
170 22.4 18.1 27.1

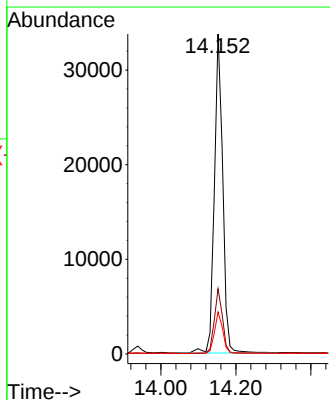
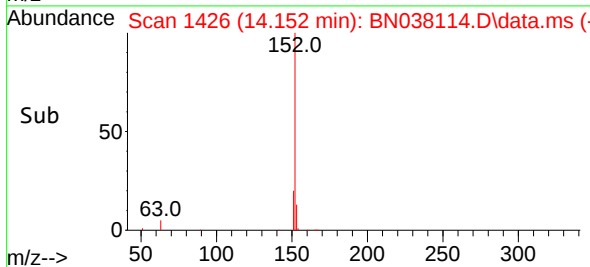
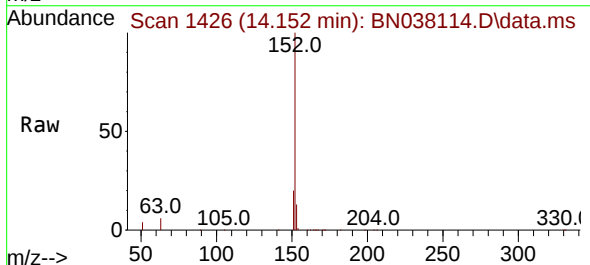
Manual Integrations  
APPROVED

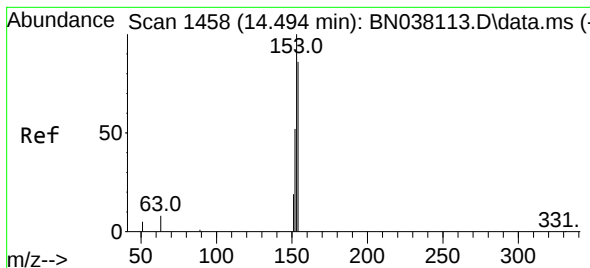
Reviewed By :Rahul Chavli 10/29/2025  
Supervised By :mohammad ahmed 10/30/2025



#16  
Acenaphthylene  
Concen: 0.779 ng  
RT: 14.152 min Scan# 1426  
Delta R.T. -0.000 min  
Lab File: BN038114.D  
Acq: 28 Oct 2025 14:49

Tgt Ion:152 Resp: 52624  
Ion Ratio Lower Upper  
152 100  
151 19.5 15.8 23.8  
153 12.9 10.2 15.2





#17

Acenaphthene

Concen: 0.779 ng

RT: 14.494 min Scan# 1458

Delta R.T. -0.000 min

Lab File: BN038114.D

Acq: 28 Oct 2025 14:49

Instrument :

BNA\_N

ClientSampleId :

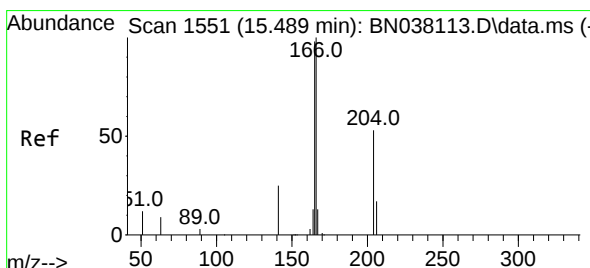
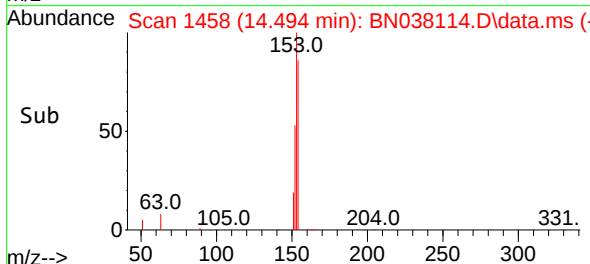
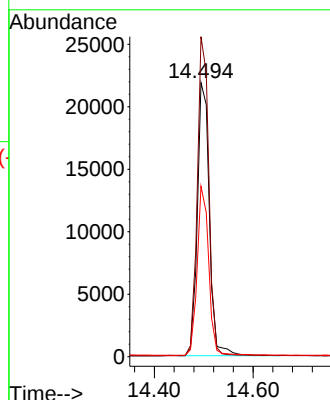
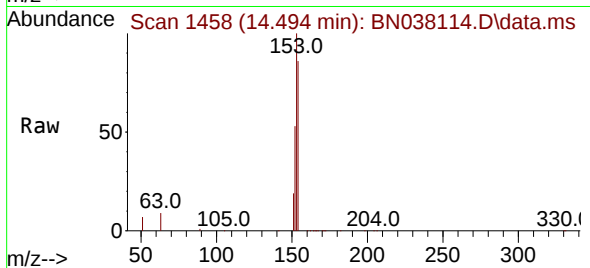
SSTDICC0.8

Tgt Ion:154 Resp: 3684  
 Ion Ratio Lower Upper  
 154 100  
 153 112.3 90.0 135.0  
 152 59.3 47.3 70.9

Manual Integrations

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Reviewed By :Rahul Chavli 10/29/2025  
 Supervised By :mohammad ahmed 10/30/2025



#18

Fluorene

Concen: 0.794 ng

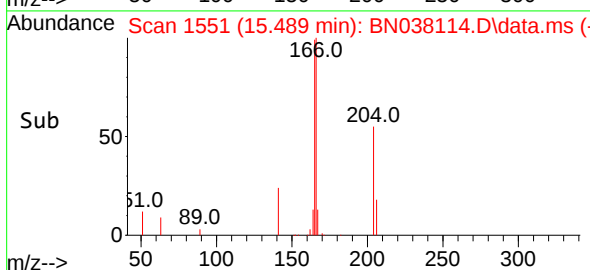
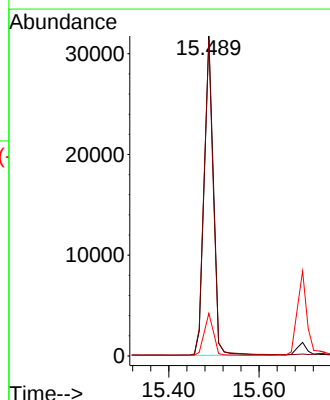
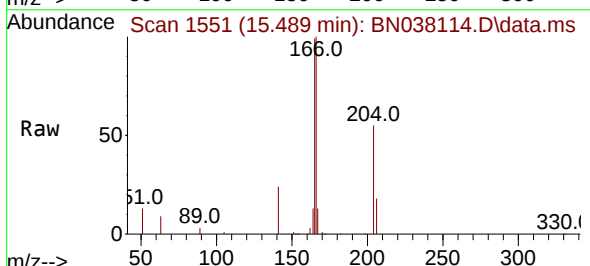
RT: 15.489 min Scan# 1551

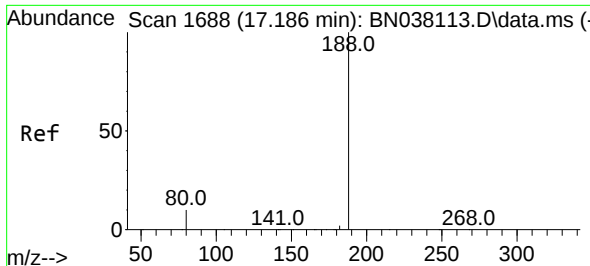
Delta R.T. -0.000 min

Lab File: BN038114.D

Acq: 28 Oct 2025 14:49

Tgt Ion:166 Resp: 49204  
 Ion Ratio Lower Upper  
 166 100  
 165 98.7 79.0 118.4  
 167 13.3 10.7 16.1





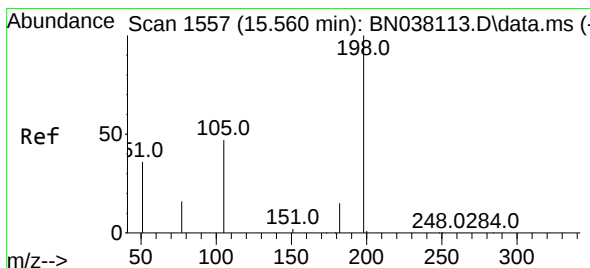
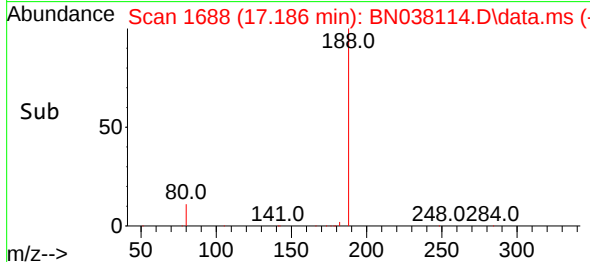
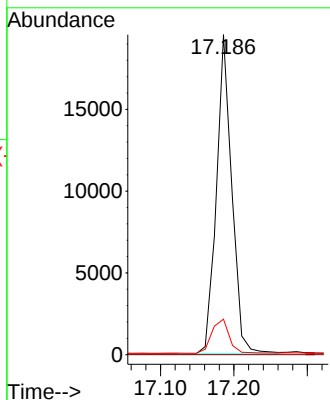
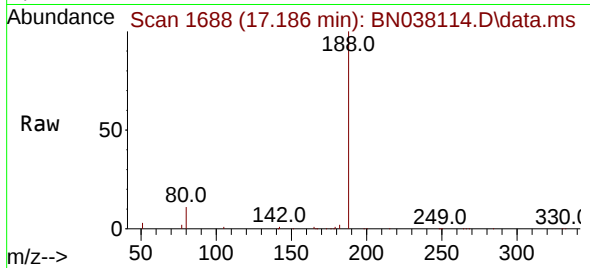
#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 17.186 min Scan# 1688  
Delta R.T. -0.000 min  
Lab File: BN038114.D  
Acq: 28 Oct 2025 14:49

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

Tgt Ion:188 Resp: 28500  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 11.1 8.6 13.0

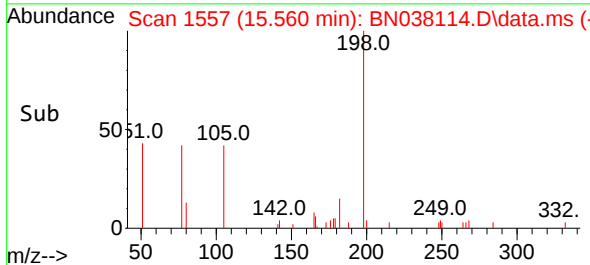
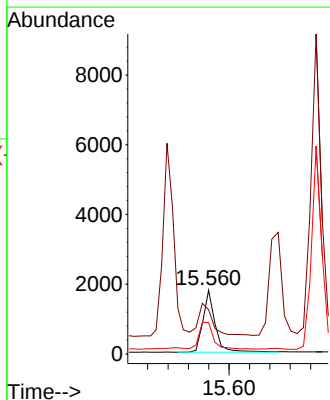
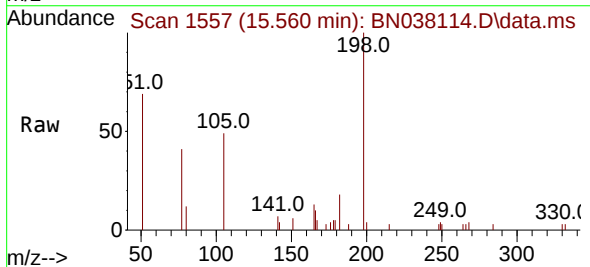
Manual Integrations  
APPROVED

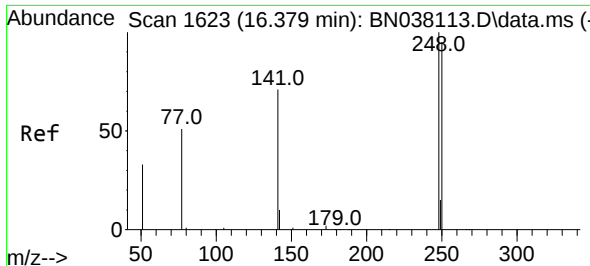
Reviewed By :Rahul Chavli 10/29/2025  
Supervised By :mohammad ahmed 10/30/2025



#20  
4,6-Dinitro-2-methylphenol  
Concen: 0.689 ng  
RT: 15.560 min Scan# 1557  
Delta R.T. -0.000 min  
Lab File: BN038114.D  
Acq: 28 Oct 2025 14:49

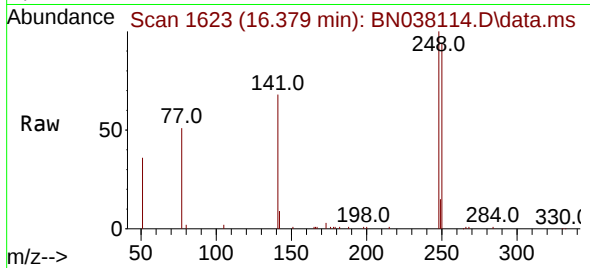
Tgt Ion:198 Resp: 2898  
Ion Ratio Lower Upper  
198 100  
51 69.5 88.9 133.3#  
105 49.4 49.2 73.8





#21  
4-Bromophenyl-phenylether  
Concen: 0.780 ng  
RT: 16.379 min Scan# 1623  
Delta R.T. -0.000 min  
Lab File: BN038114.D  
Acq: 28 Oct 2025 14:49

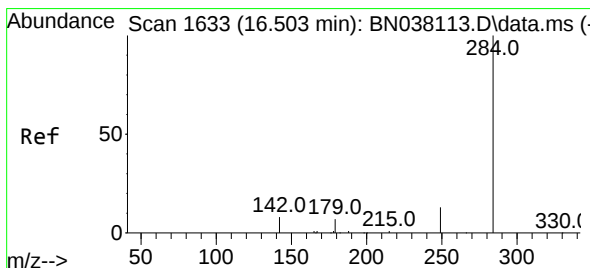
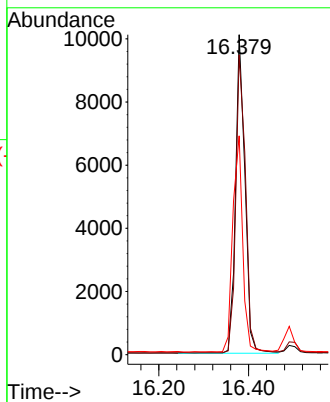
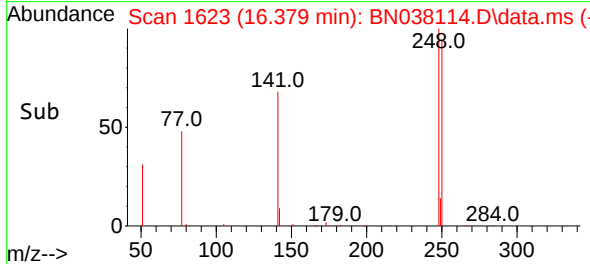
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8



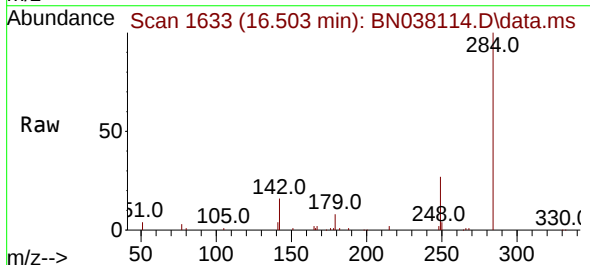
Tgt Ion:248 Resp: 1457  
Ion Ratio Lower Upper  
248 100  
250 93.7 76.2 114.2  
141 68.4 57.6 86.4

Manual Integrations  
APPROVED

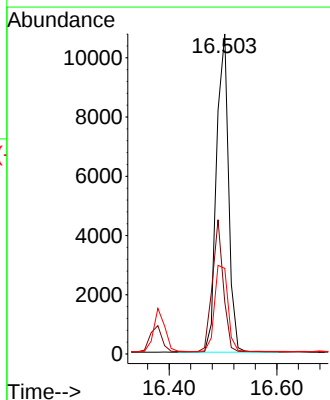
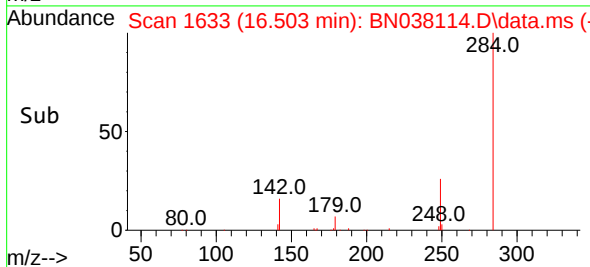
Reviewed By :Rahul Chavli 10/29/2025  
Supervised By :mohammad ahmed 10/30/2025

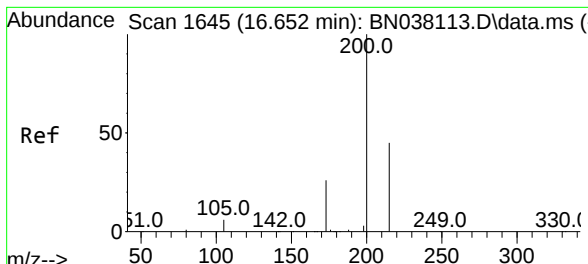


#22  
Hexachlorobenzene  
Concen: 0.786 ng  
RT: 16.503 min Scan# 1633  
Delta R.T. -0.000 min  
Lab File: BN038114.D  
Acq: 28 Oct 2025 14:49



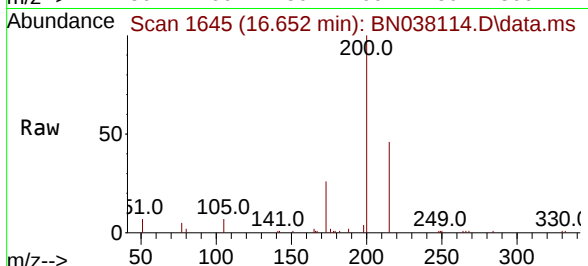
Tgt Ion:284 Resp: 16700  
Ion Ratio Lower Upper  
284 100  
142 38.0 30.5 45.7  
249 30.3 23.5 35.3





#23  
 Atrazine  
 Concen: 0.745 ng  
 RT: 16.652 min Scan# 1645  
 Delta R.T. -0.000 min  
 Lab File: BN038114.D  
 Acq: 28 Oct 2025 14:49

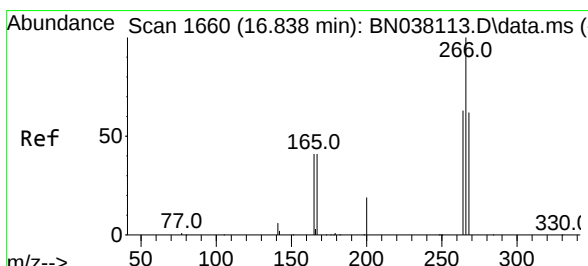
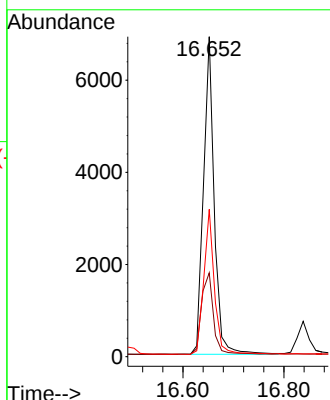
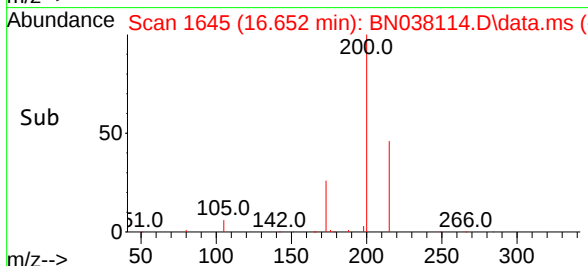
Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC0.8



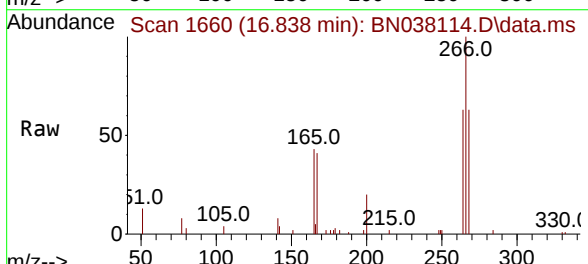
Tgt Ion:200 Resp: 10204  
 Ion Ratio Lower Upper  
 200 100  
 173 26.2 21.4 32.2  
 215 46.0 36.7 55.1

Manual Integrations  
 APPROVED

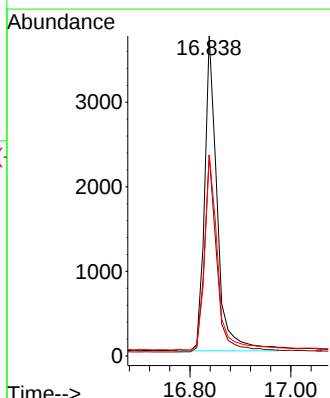
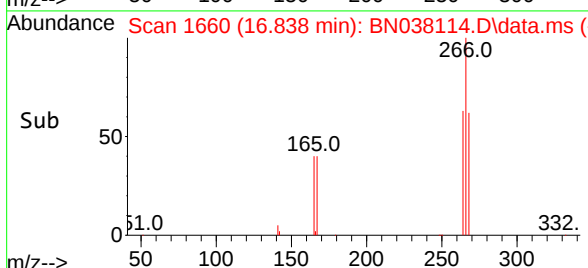
Reviewed By :Rahul Chavli 10/29/2025  
 Supervised By :mohammad ahmed 10/30/2025

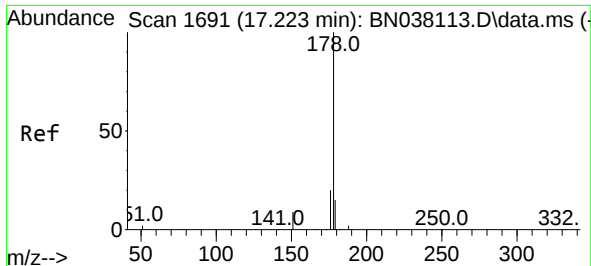


#24  
 Pentachlorophenol  
 Concen: 0.707 ng  
 RT: 16.838 min Scan# 1660  
 Delta R.T. -0.000 min  
 Lab File: BN038114.D  
 Acq: 28 Oct 2025 14:49



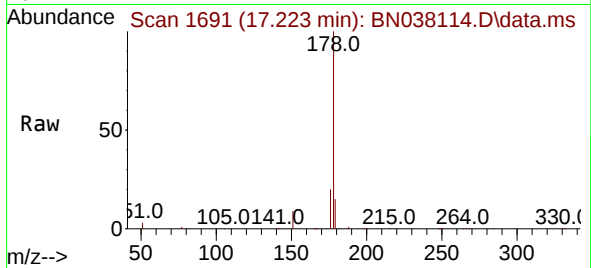
Tgt Ion:266 Resp: 6470  
 Ion Ratio Lower Upper  
 266 100  
 264 62.0 49.3 73.9  
 268 64.3 50.6 75.8





#25  
Phenanthrene  
Concen: 0.779 ng  
RT: 17.223 min Scan# 1691  
Delta R.T. -0.000 min  
Lab File: BN038114.D  
Acq: 28 Oct 2025 14:49

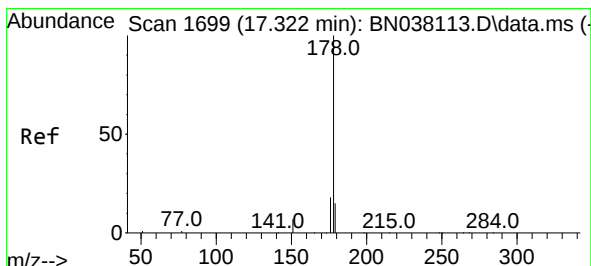
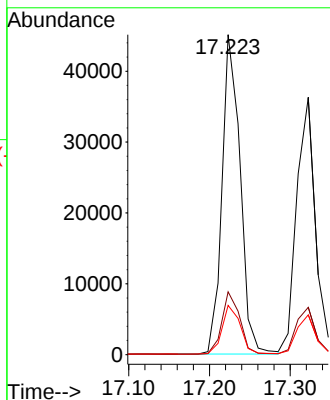
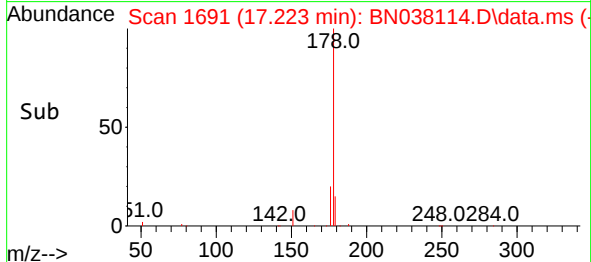
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8



Tgt Ion:178 Resp: 7045  
Ion Ratio Lower Upper  
178 100  
176 19.2 15.5 23.3  
179 15.3 12.2 18.4

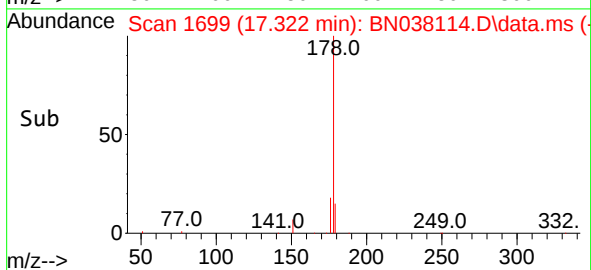
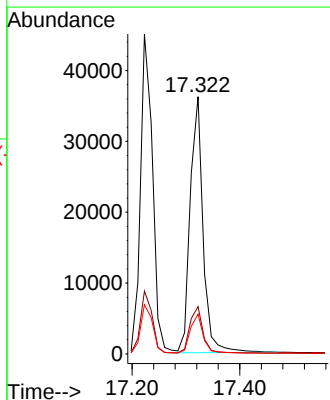
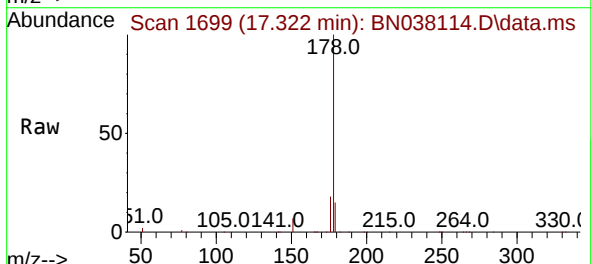
Manual Integrations  
APPROVED

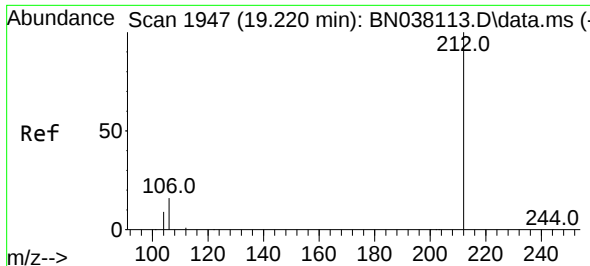
Reviewed By :Rahul Chavli 10/29/2025  
Supervised By :mohammad ahmed 10/30/2025



#26  
Anthracene  
Concen: 0.761 ng  
RT: 17.322 min Scan# 1699  
Delta R.T. -0.000 min  
Lab File: BN038114.D  
Acq: 28 Oct 2025 14:49

Tgt Ion:178 Resp: 60270  
Ion Ratio Lower Upper  
178 100  
176 18.6 14.9 22.3  
179 15.2 11.8 17.8





#27  
Fluoranthene-d10  
Concen: 0.778 ng  
RT: 19.220 min Scan# 1947  
Delta R.T. -0.000 min  
Lab File: BN038114.D  
Acq: 28 Oct 2025 14:49

Instrument :

BNA\_N

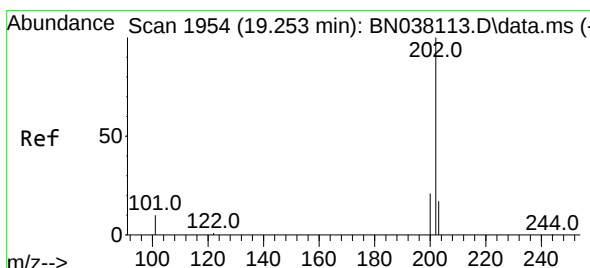
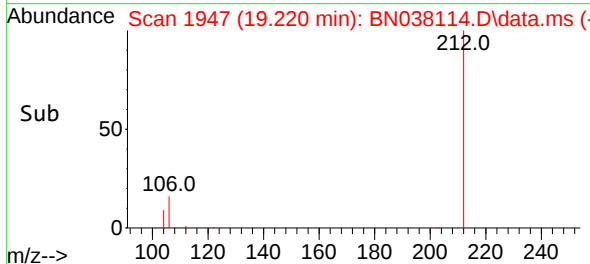
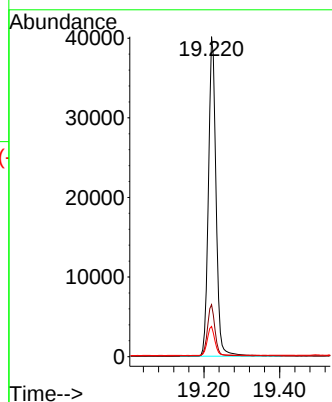
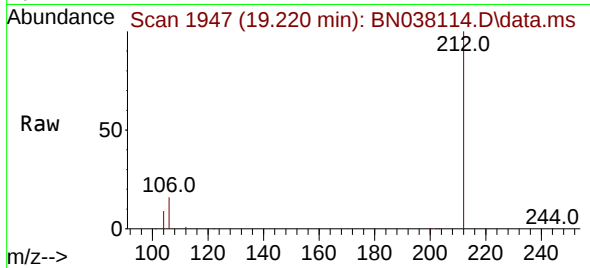
ClientSampleId :

SSTDICC0.8

Tgt Ion:212 Resp: 55912  
Ion Ratio Lower Upper  
212 100  
106 16.0 12.6 19.0  
104 9.0 7.1 10.7

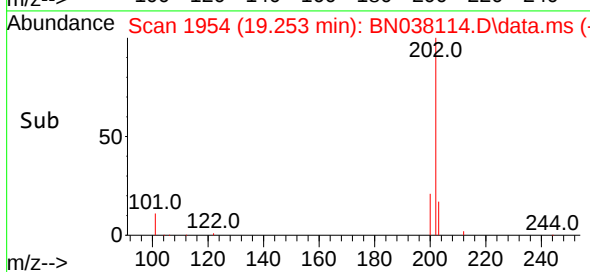
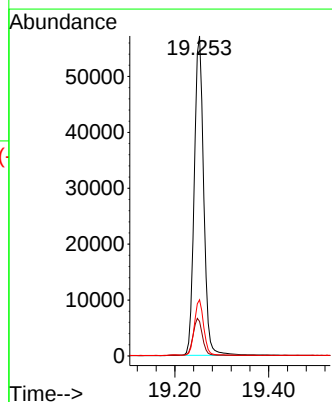
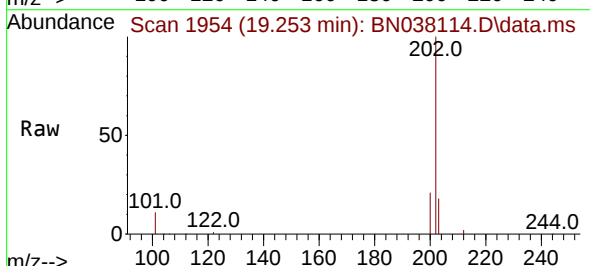
Manual Integrations  
APPROVED

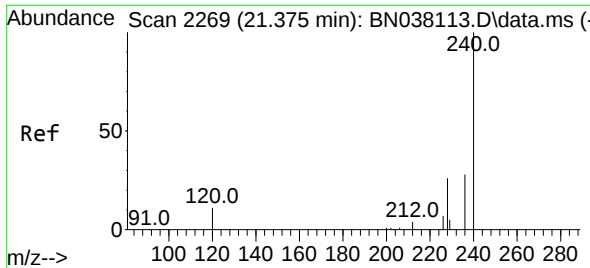
Reviewed By :Rahul Chavli 10/29/2025  
Supervised By :mohammad ahmed 10/30/2025



#28  
Fluoranthene  
Concen: 0.786 ng  
RT: 19.253 min Scan# 1954  
Delta R.T. -0.000 min  
Lab File: BN038114.D  
Acq: 28 Oct 2025 14:49

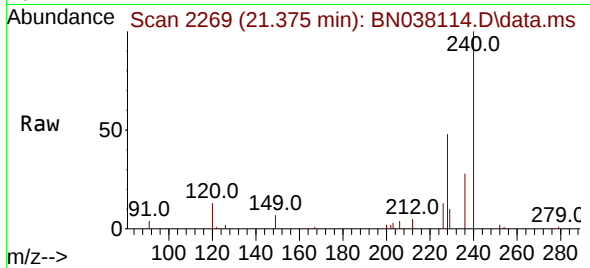
Tgt Ion:202 Resp: 79478  
Ion Ratio Lower Upper  
202 100  
101 11.8 9.4 14.2  
203 17.0 13.4 20.2





#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.375 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: BN038114.D  
Acq: 28 Oct 2025 14:49

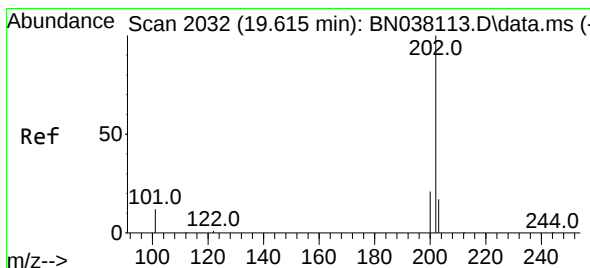
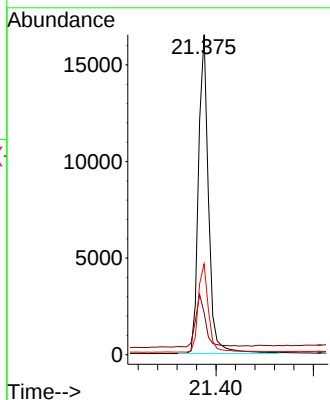
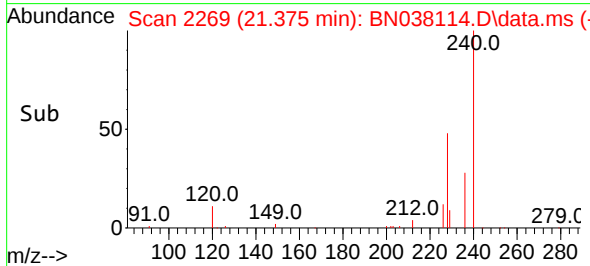
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8



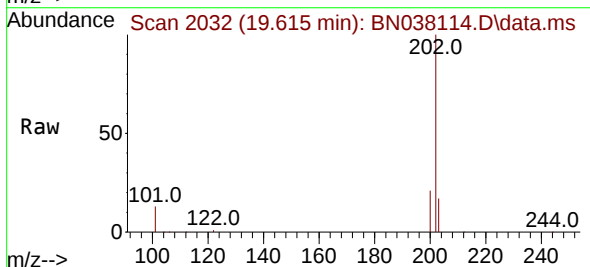
Tgt Ion:240 Resp: 2353  
Ion Ratio Lower Upper  
240 100  
120 13.1 10.7 16.1  
236 28.4 23.1 34.7

Manual Integrations  
APPROVED

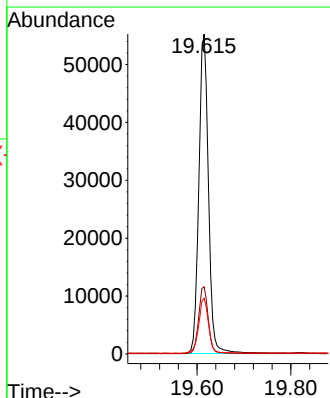
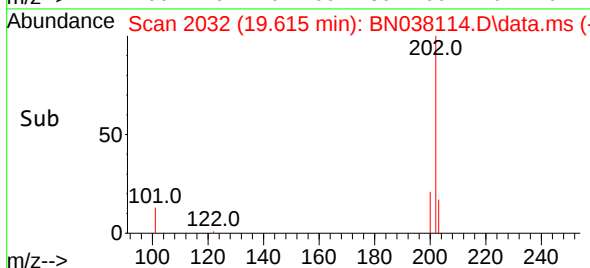
Reviewed By :Rahul Chavli 10/29/2025  
Supervised By :mohammad ahmed 10/30/2025

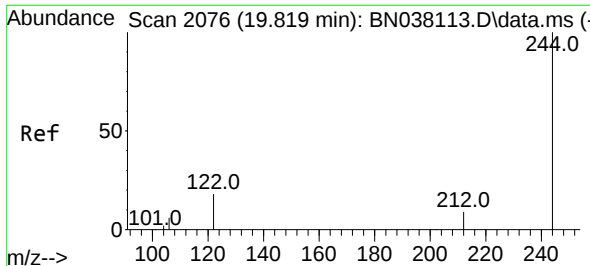


#30  
Pyrene  
Concen: 0.737 ng  
RT: 19.615 min Scan# 2032  
Delta R.T. 0.005 min  
Lab File: BN038114.D  
Acq: 28 Oct 2025 14:49



Tgt Ion:202 Resp: 78307  
Ion Ratio Lower Upper  
202 100  
200 21.2 16.7 25.1  
203 17.7 14.2 21.2





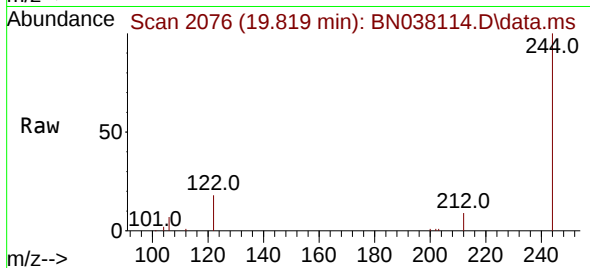
#31  
 Terphenyl-d14  
 Concen: 0.743 ng  
 RT: 19.819 min Scan# 2076  
 Delta R.T. -0.000 min  
 Lab File: BN038114.D  
 Acq: 28 Oct 2025 14:49

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8



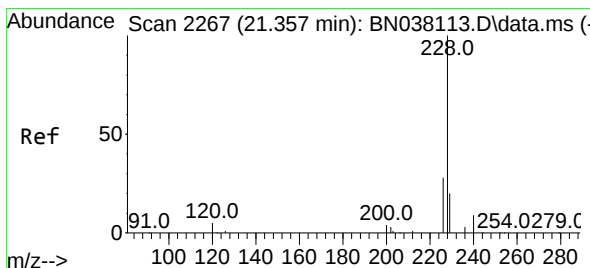
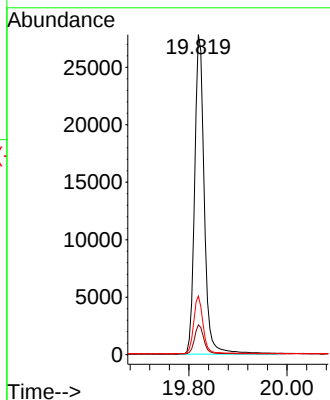
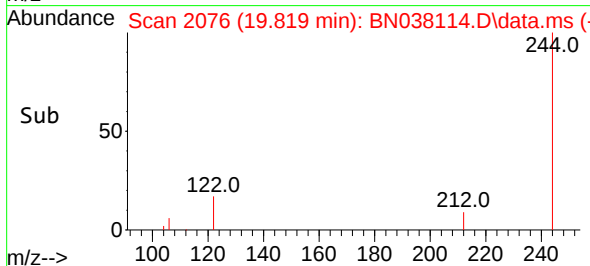
Tgt Ion:244 Resp: 37975  
 Ion Ratio Lower Upper  
 244 100  
 212 9.3 7.8 11.6  
 122 18.4 15.2 22.8

Manual Integrations

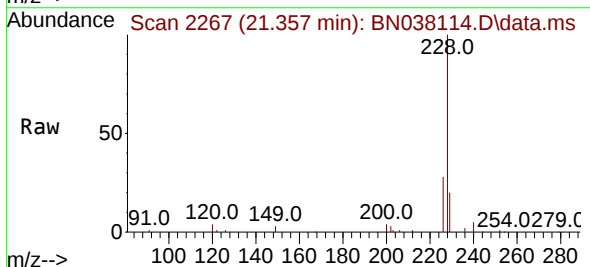
APPROVED

Reviewed By :Rahul Chavli 10/29/2025

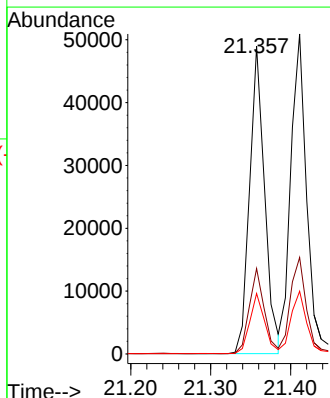
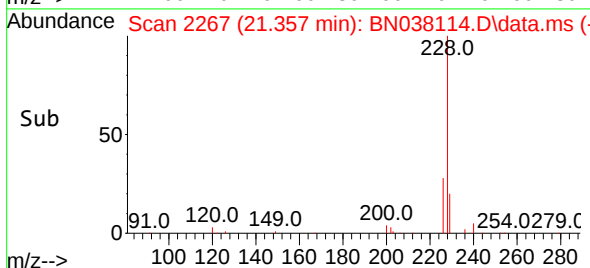
Supervised By :mohammad ahmed 10/30/2025

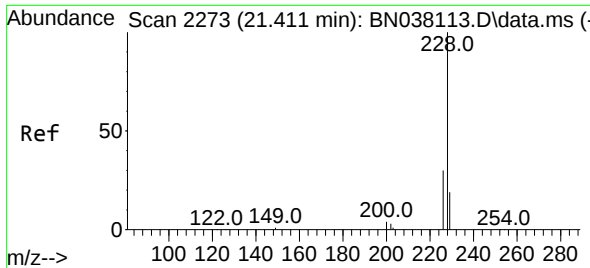


#32  
 Benzo(a)anthracene  
 Concen: 0.764 ng  
 RT: 21.357 min Scan# 2267  
 Delta R.T. -0.000 min  
 Lab File: BN038114.D  
 Acq: 28 Oct 2025 14:49



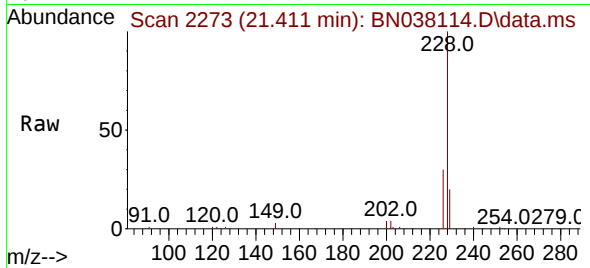
Tgt Ion:228 Resp: 64140  
 Ion Ratio Lower Upper  
 228 100  
 226 27.7 22.2 33.4  
 229 19.6 15.8 23.8





#33  
Chrysene  
Concen: 0.787 ng  
RT: 21.411 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: BN038114.D  
Acq: 28 Oct 2025 14:49

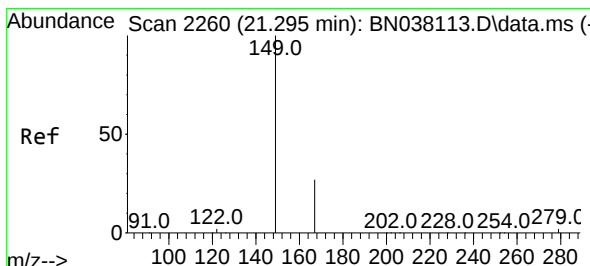
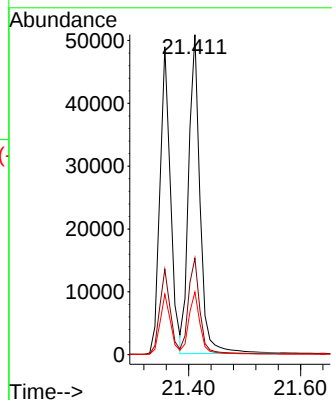
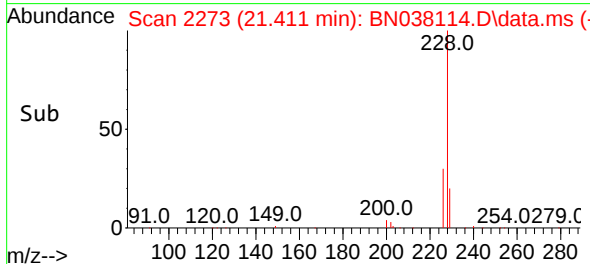
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8



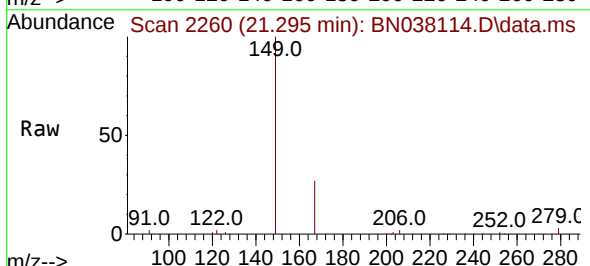
Tgt Ion:228 Resp: 71679  
Ion Ratio Lower Upper  
228 100  
226 30.1 24.3 36.5  
229 19.6 15.7 23.5

Manual Integrations  
APPROVED

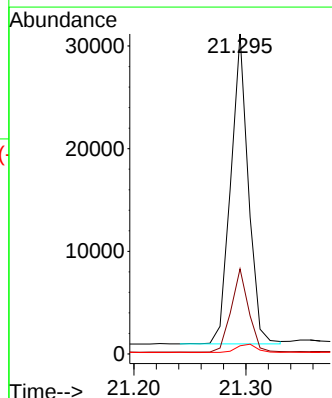
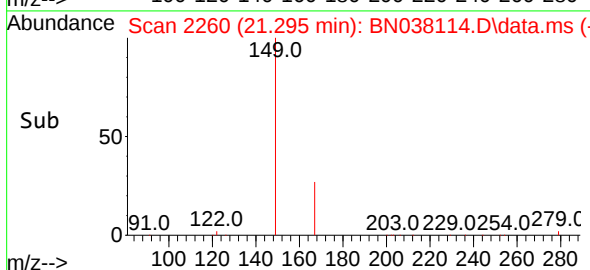
Reviewed By :Rahul Chavli 10/29/2025  
Supervised By :mohammad ahmed 10/30/2025

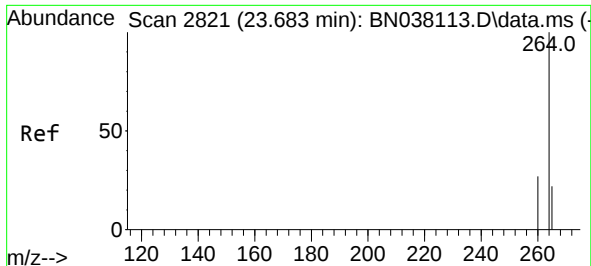


#34  
Bis(2-ethylhexyl)phthalate  
Concen: 0.745 ng  
RT: 21.295 min Scan# 2260  
Delta R.T. -0.000 min  
Lab File: BN038114.D  
Acq: 28 Oct 2025 14:49



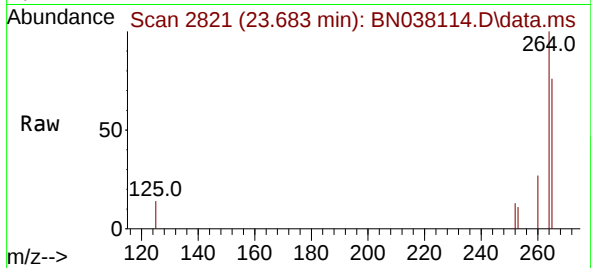
Tgt Ion:149 Resp: 32963  
Ion Ratio Lower Upper  
149 100  
167 26.8 21.1 31.7  
279 3.1 2.9 4.3





#35  
 Perylene-d12  
 Concen: 0.400 ng  
 RT: 23.683 min Scan# 2821  
 Delta R.T. 0.003 min  
 Lab File: BN038114.D  
 Acq: 28 Oct 2025 14:49

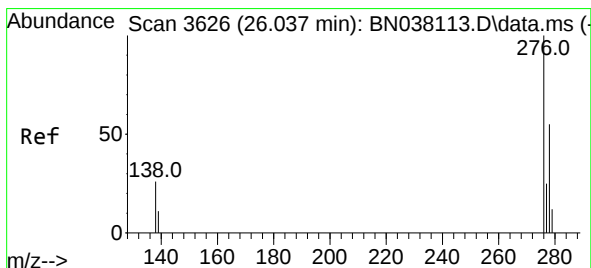
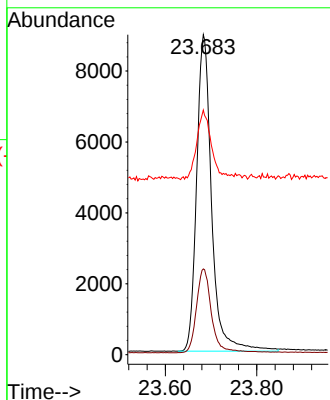
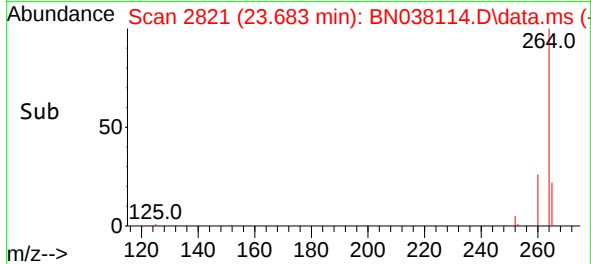
Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC0.8



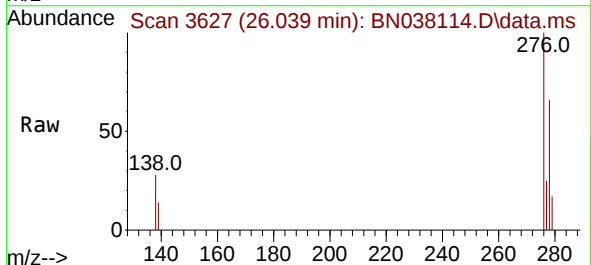
Tgt Ion:264 Resp: 20307  
 Ion Ratio Lower Upper  
 264 100  
 260 26.8 21.8 32.8  
 265 76.5 68.6 102.8

Manual Integrations  
 APPROVED

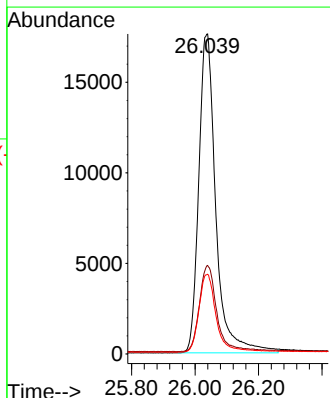
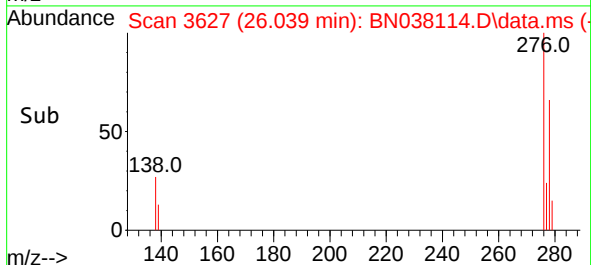
Reviewed By :Rahul Chavli 10/29/2025  
 Supervised By :mohammad ahmed 10/30/2025

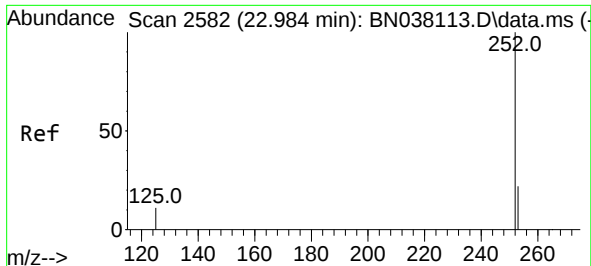


#36  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.789 ng  
 RT: 26.039 min Scan# 3627  
 Delta R.T. 0.006 min  
 Lab File: BN038114.D  
 Acq: 28 Oct 2025 14:49



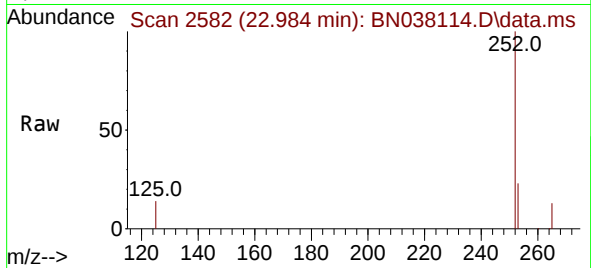
Tgt Ion:276 Resp: 65796  
 Ion Ratio Lower Upper  
 276 100  
 138 27.3 21.4 32.0  
 277 24.7 19.2 28.8





#37  
Benzo(b)fluoranthene  
Concen: 0.805 ng m  
RT: 22.984 min Scan# 2582  
Delta R.T. 0.003 min  
Lab File: BN038114.D  
Acq: 28 Oct 2025 14:49

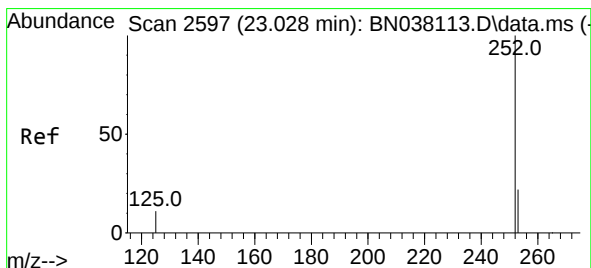
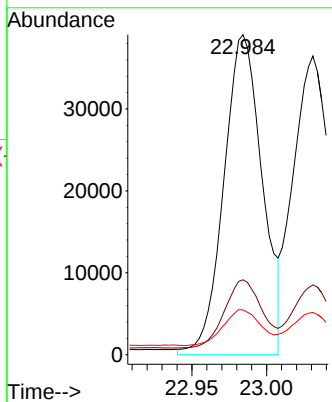
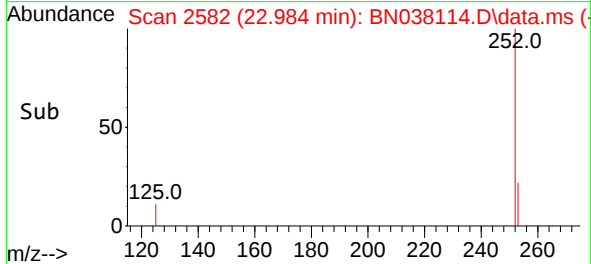
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8



Tgt Ion:252 Resp: 69912  
Ion Ratio Lower Upper  
252 100  
253 23.4 20.9 31.3  
125 14.0 14.1 21.1

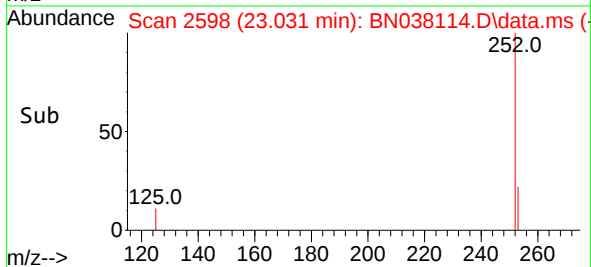
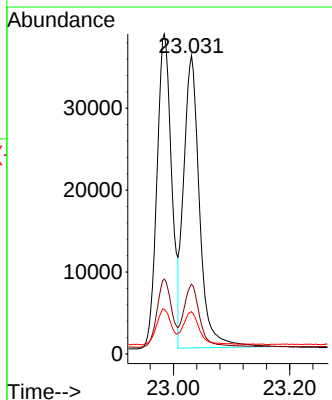
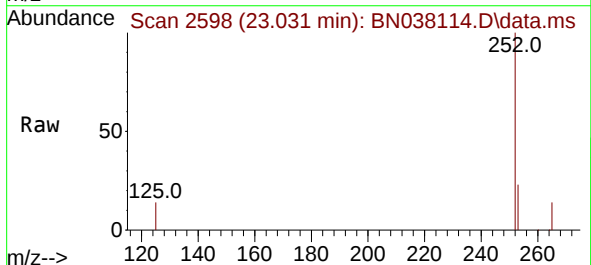
Manual Integrations  
APPROVED

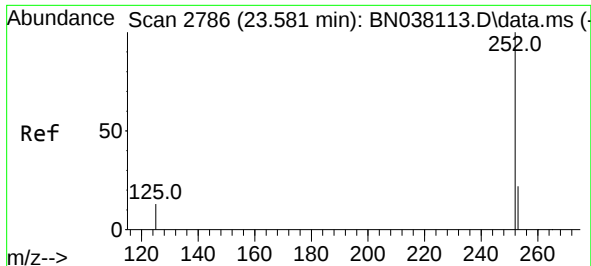
Reviewed By :Rahul Chavli 10/29/2025  
Supervised By :mohammad ahmed 10/30/2025



#38  
Benzo(k)fluoranthene  
Concen: 0.776 ng  
RT: 23.031 min Scan# 2598  
Delta R.T. 0.003 min  
Lab File: BN038114.D  
Acq: 28 Oct 2025 14:49

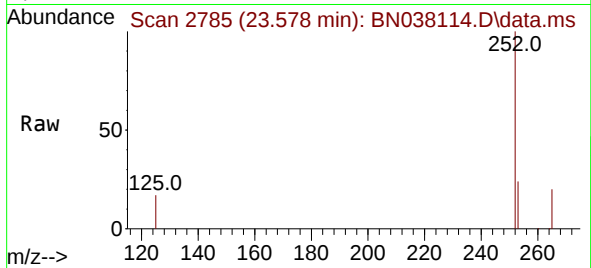
Tgt Ion:252 Resp: 67771  
Ion Ratio Lower Upper  
252 100  
253 23.4 21.2 31.8  
125 14.2 14.6 22.0





#39  
Benzo(a)pyrene  
Concen: 0.768 ng  
RT: 23.578 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: BN038114.D  
Acq: 28 Oct 2025 14:49

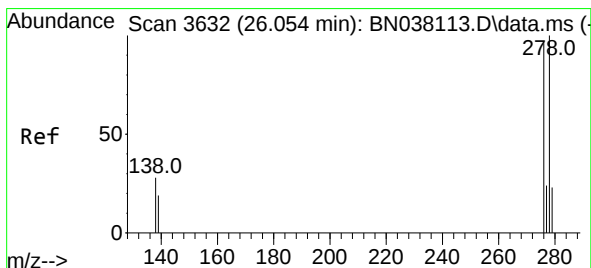
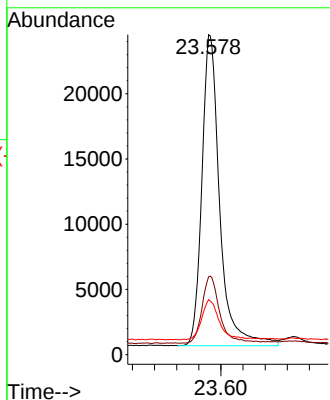
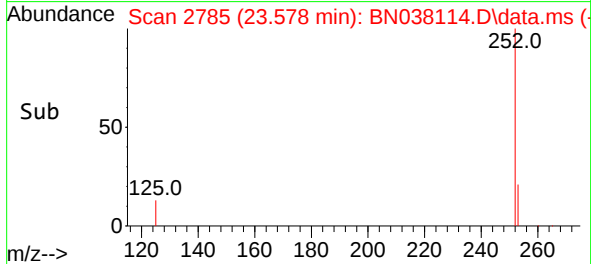
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8



Tgt Ion:252 Resp: 5336  
Ion Ratio Lower Upper  
252 100  
253 24.4 23.1 34.7  
125 17.2 18.6 28.0

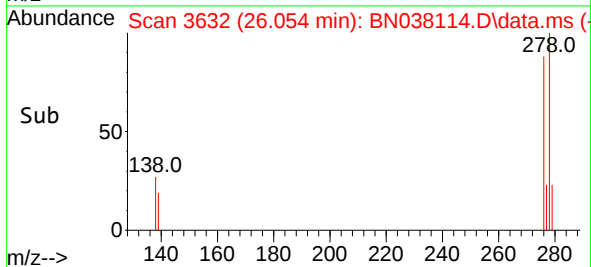
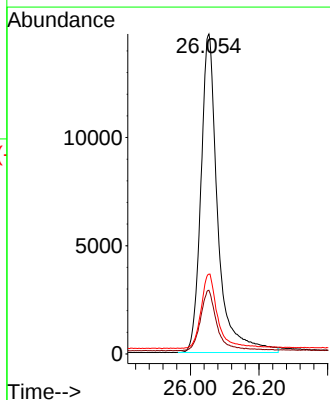
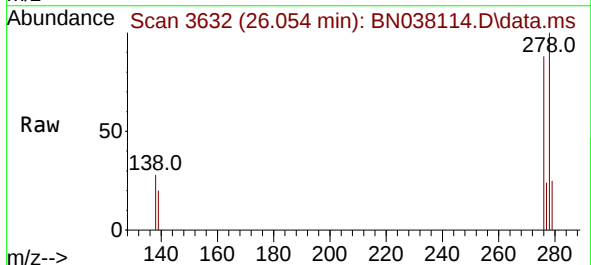
Manual Integrations  
APPROVED

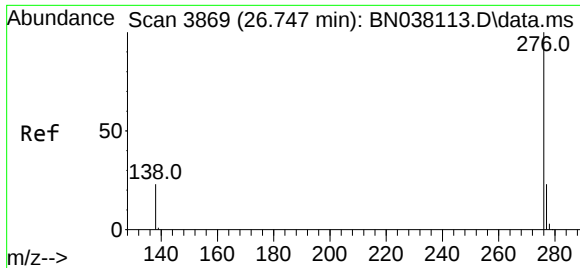
Reviewed By :Rahul Chavli 10/29/2025  
Supervised By :mohammad ahmed 10/30/2025



#40  
Dibenzo(a,h)anthracene  
Concen: 0.784 ng  
RT: 26.054 min Scan# 3632  
Delta R.T. 0.006 min  
Lab File: BN038114.D  
Acq: 28 Oct 2025 14:49

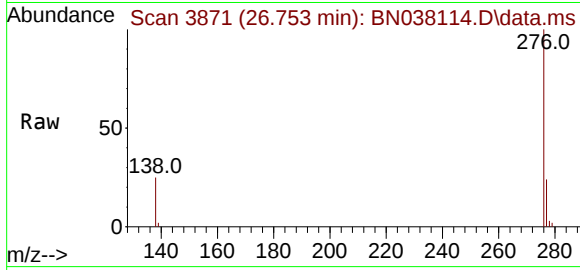
Tgt Ion:278 Resp: 50344  
Ion Ratio Lower Upper  
278 100  
139 19.9 17.6 26.4  
279 25.0 22.6 33.8





#41  
Benzo(g,h,i)perylene  
Concen: 0.793 ng  
RT: 26.753 min Scan# 3871  
Delta R.T. 0.003 min  
Lab File: BN038114.D  
Acq: 28 Oct 2025 14:49

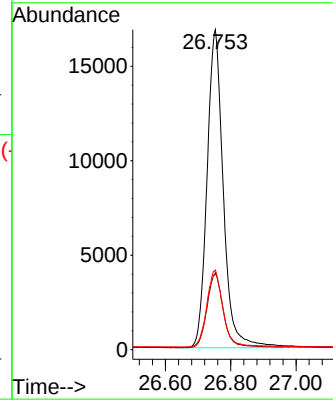
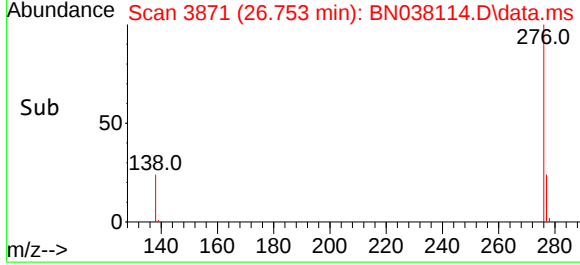
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8



Tgt Ion:276 Resp: 5815  
Ion Ratio Lower Upper  
276 100  
277 24.0 19.7 29.5  
138 24.9 20.2 30.4

Manual Integrations  
APPROVED

Reviewed By :Rahul Chavli 10/29/2025  
Supervised By :mohammad ahmed 10/30/2025



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN102825\  
 Data File : BN038115.D  
 Acq On : 28 Oct 2025 15:25  
 Operator : RC/JU  
 Sample : SSTDICC1.6  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC1.6

Quant Time: Oct 28 17:31:51 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN102825.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Oct 28 17:15:13 2025  
 Response via : Initial Calibration

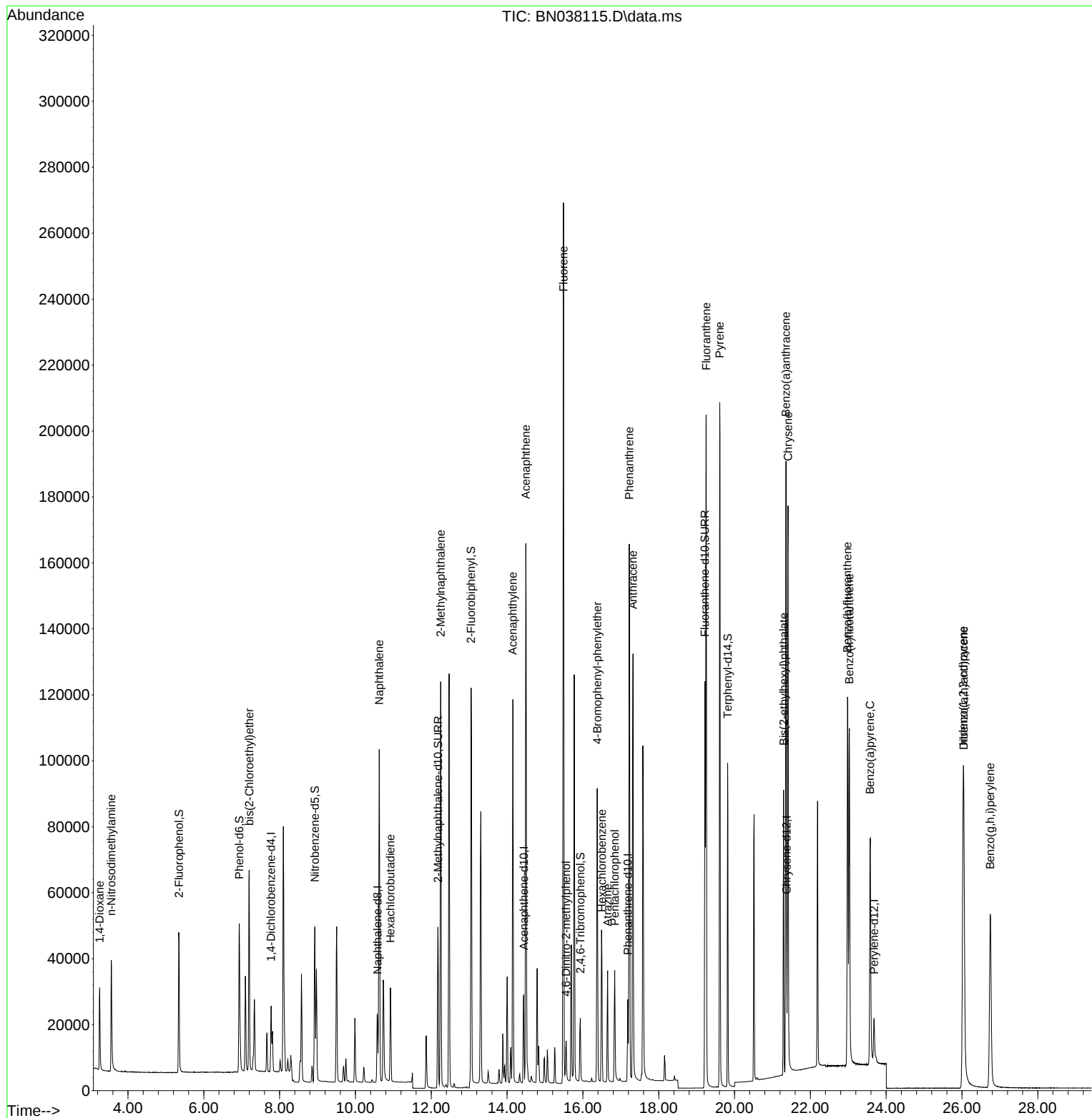
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.775  | 152  | 9872     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.584 | 136  | 29279    | 0.400 | ng    | 0.01     |
| 13) Acenaphthene-d10          | 14.441 | 164  | 16624    | 0.400 | ng    | 0.01     |
| 19) Phenanthrene-d10          | 17.186 | 188  | 31469    | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 21.375 | 240  | 25173    | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.680 | 264  | 19529    | 0.400 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.348  | 112  | 36286    | 1.560 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.937  | 99   | 44651    | 1.576 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.929  | 82   | 36991    | 1.566 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 12.177 | 152  | 68673    | 1.642 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.932 | 330  | 11390    | 1.663 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 13.051 | 172  | 107386   | 1.613 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 19.220 | 212  | 132146   | 1.665 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.819 | 244  | 89776    | 1.642 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| Target Compounds              |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.254  | 88   | 16443    | 1.612 | ng    | 99       |
| 3) n-Nitrosodimethylamine     | 3.557  | 42   | 21596    | 1.645 | ng    | 96       |
| 6) bis(2-Chloroethyl)ether    | 7.197  | 93   | 45315    | 1.628 | ng    | 99       |
| 9) Naphthalene                | 10.626 | 128  | 131755   | 1.634 | ng    | 99       |
| 10) Hexachlorobutadiene       | 10.925 | 225  | 22006    | 1.617 | ng    | # 99     |
| 12) 2-Methylnaphthalene       | 12.248 | 142  | 88687    | 1.649 | ng    | 99       |
| 16) Acenaphthylene            | 14.152 | 152  | 125798   | 1.671 | ng    | 99       |
| 17) Acenaphthene              | 14.495 | 154  | 87659    | 1.664 | ng    | 98       |
| 18) Fluorene                  | 15.489 | 166  | 117574   | 1.703 | ng    | 100      |
| 20) 4,6-Dinitro-2-methylph... | 15.560 | 198  | 7997     | 1.534 | ng    | # 54     |
| 21) 4-Bromophenyl-phenylether | 16.379 | 248  | 34434    | 1.669 | ng    | 95       |
| 22) Hexachlorobenzene         | 16.503 | 284  | 38518    | 1.642 | ng    | 99       |
| 23) Atrazine                  | 16.652 | 200  | 25585    | 1.693 | ng    | 97       |
| 24) Pentachlorophenol         | 16.838 | 266  | 16638    | 1.646 | ng    | 99       |
| 25) Phenanthrene              | 17.223 | 178  | 166989   | 1.671 | ng    | 100      |
| 26) Anthracene                | 17.322 | 178  | 148754   | 1.702 | ng    | 100      |
| 28) Fluoranthene              | 19.253 | 202  | 187774   | 1.682 | ng    | 99       |
| 30) Pyrene                    | 19.610 | 202  | 184735   | 1.626 | ng    | 100      |
| 32) Benzo(a)anthracene        | 21.358 | 228  | 147889   | 1.647 | ng    | 99       |
| 33) Chrysene                  | 21.411 | 228  | 156927   | 1.610 | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 21.295 | 149  | 72607    | 1.535 | ng    | 99       |
| 36) Indeno(1,2,3-cd)pyrene    | 26.031 | 276  | 135169   | 1.685 | ng    | 99       |
| 37) Benzo(b)fluoranthene      | 22.981 | 252  | 141041   | 1.689 | ng    | # 91     |
| 38) Benzo(k)fluoranthene      | 23.028 | 252  | 143019   | 1.702 | ng    | # 90     |
| 39) Benzo(a)pyrene            | 23.578 | 252  | 110949   | 1.660 | ng    | # 85     |
| 40) Dibenzo(a,h)anthracene    | 26.048 | 278  | 105589   | 1.710 | ng    | 92       |
| 41) Benzo(g,h,i)perylene      | 26.747 | 276  | 117071   | 1.660 | ng    | 98       |
| -----                         |        |      |          |       |       |          |

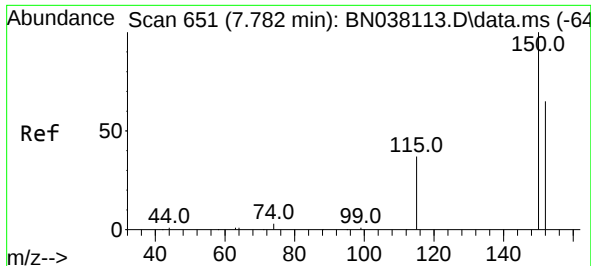
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN102825\  
Data File : BN038115.D  
Acq On : 28 Oct 2025 15:25  
Operator : RC/JU  
Sample : SSTDICC1.6  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

Quant Time: Oct 28 17:31:51 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN102825.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Oct 28 17:15:13 2025  
Response via : Initial Calibration

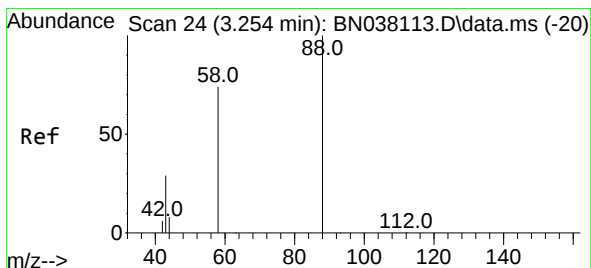
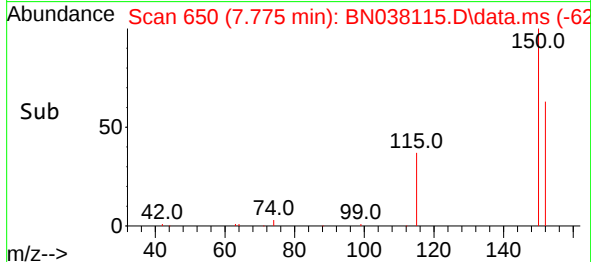
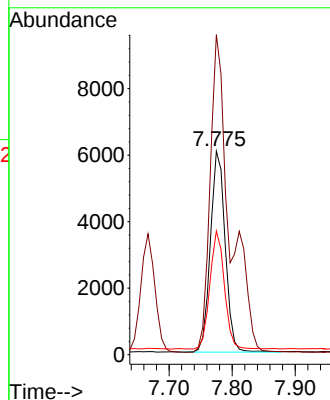
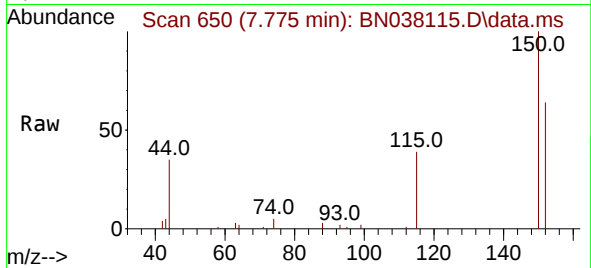




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 0.400 ng  
 RT: 7.775 min Scan# 61  
 Delta R.T. -0.000 min  
 Lab File: BN038115.D  
 Acq: 28 Oct 2025 15:25

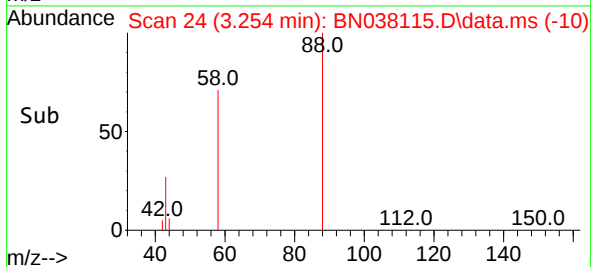
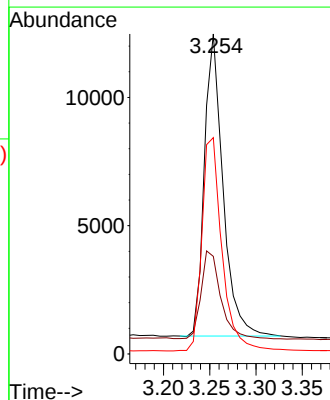
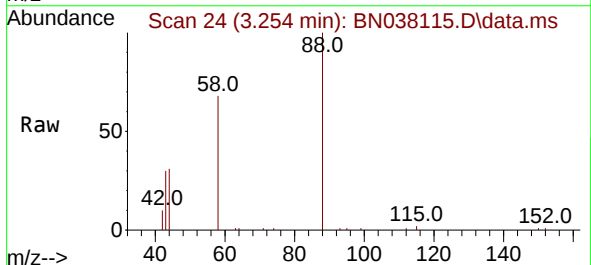
Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC1.6

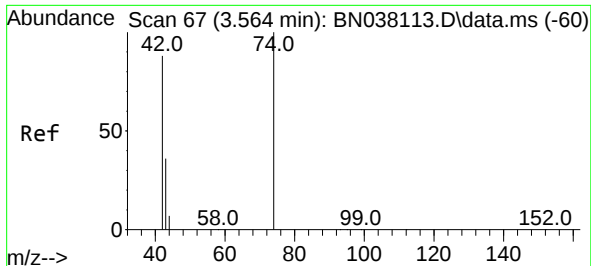
Tgt Ion:152 Resp: 9872  
 Ion Ratio Lower Upper  
 152 100  
 150 157.2 122.3 183.5  
 115 60.8 47.4 71.0



#2  
 1,4-Dioxane  
 Concen: 1.612 ng  
 RT: 3.254 min Scan# 24  
 Delta R.T. 0.000 min  
 Lab File: BN038115.D  
 Acq: 28 Oct 2025 15:25

Tgt Ion: 88 Resp: 16443  
 Ion Ratio Lower Upper  
 88 100  
 43 30.7 24.3 36.5  
 58 76.6 60.4 90.6

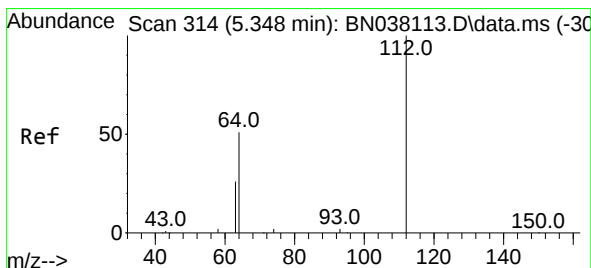
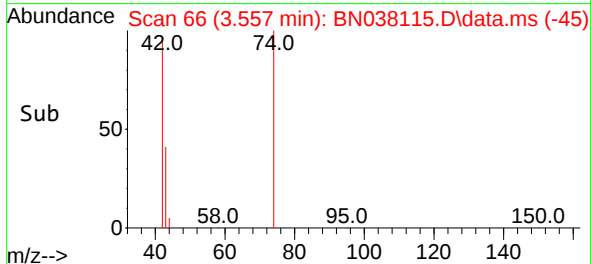
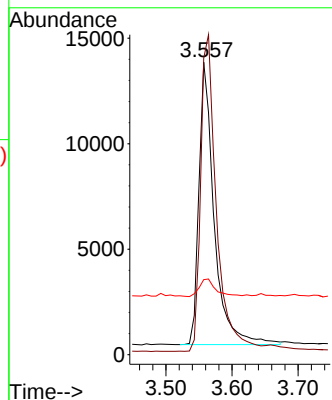
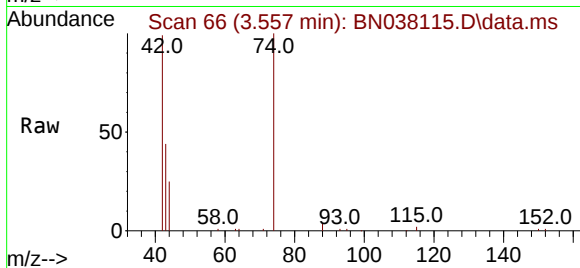




#3  
n-Nitrosodimethylamine  
Concen: 1.645 ng  
RT: 3.557 min Scan# 60  
Delta R.T. 0.000 min  
Lab File: BN038115.D  
Acq: 28 Oct 2025 15:25

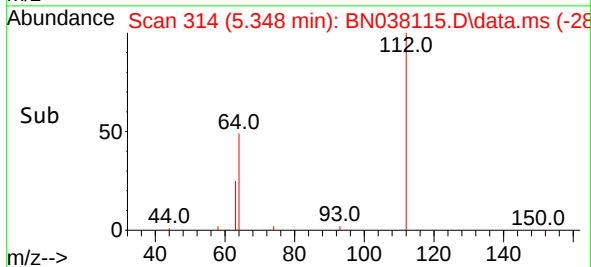
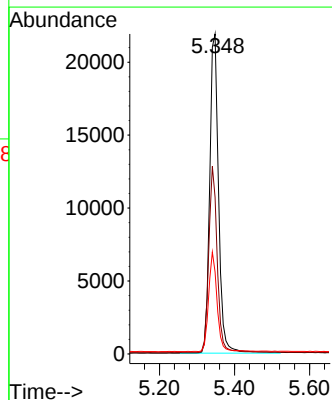
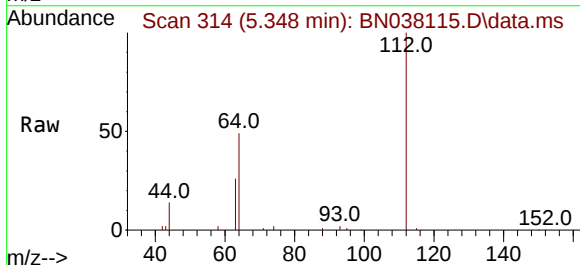
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

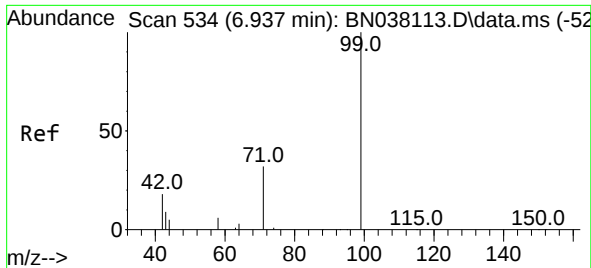
Tgt Ion: 42 Resp: 21596  
Ion Ratio Lower Upper  
42 100  
74 115.8 96.8 145.2  
44 6.3 5.3 7.9



#4  
2-Fluorophenol  
Concen: 1.560 ng  
RT: 5.348 min Scan# 314  
Delta R.T. 0.000 min  
Lab File: BN038115.D  
Acq: 28 Oct 2025 15:25

Tgt Ion: 112 Resp: 36286  
Ion Ratio Lower Upper  
112 100  
64 56.2 45.4 68.0  
63 29.9 23.2 34.8

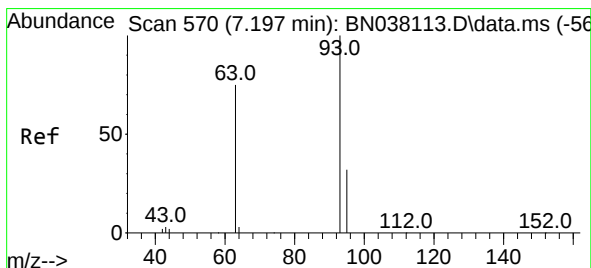
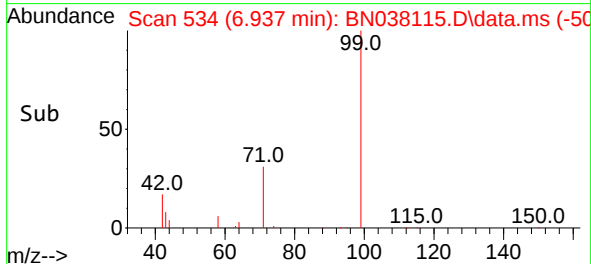
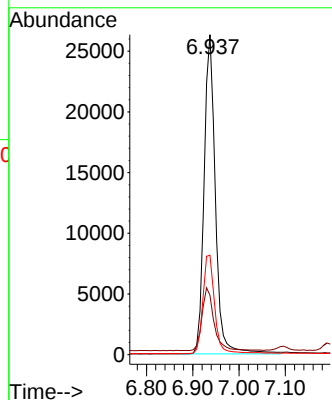
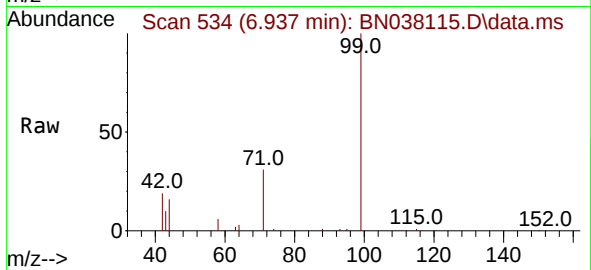




#5  
Phenol-d6  
Concen: 1.576 ng  
RT: 6.937 min Scan# 51  
Delta R.T. 0.000 min  
Lab File: BN038115.D  
Acq: 28 Oct 2025 15:25

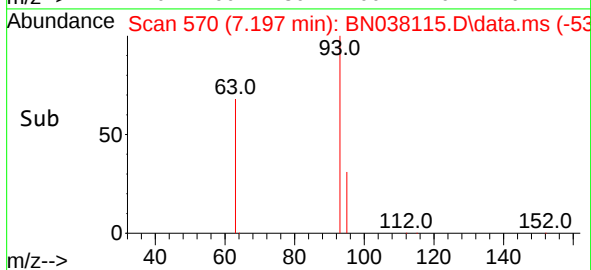
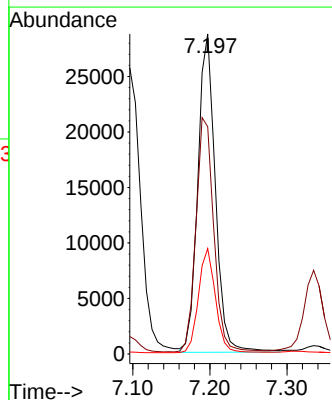
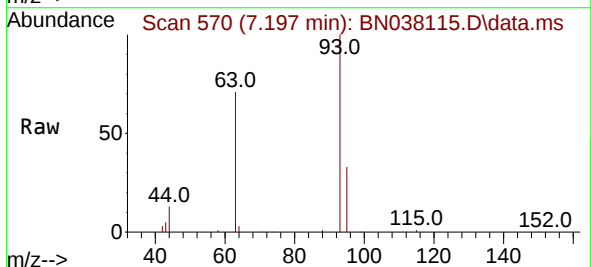
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

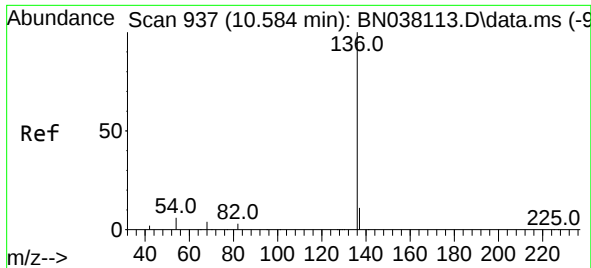
Tgt Ion: 99 Resp: 44651  
Ion Ratio Lower Upper  
99 100  
42 20.8 16.6 24.8  
71 32.5 25.4 38.2



#6  
bis(2-Chloroethyl)ether  
Concen: 1.628 ng  
RT: 7.197 min Scan# 570  
Delta R.T. 0.000 min  
Lab File: BN038115.D  
Acq: 28 Oct 2025 15:25

Tgt Ion: 93 Resp: 45315  
Ion Ratio Lower Upper  
93 100  
63 74.8 59.3 88.9  
95 31.9 25.2 37.8

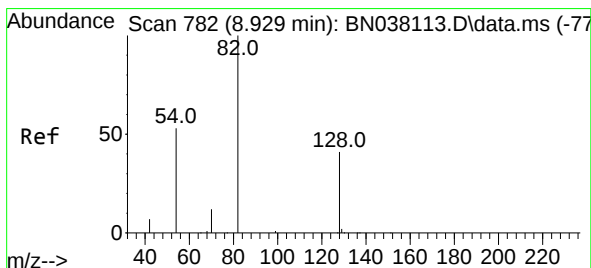
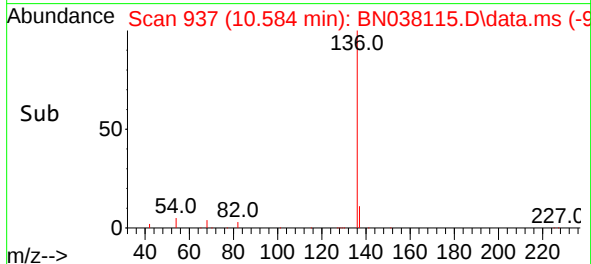
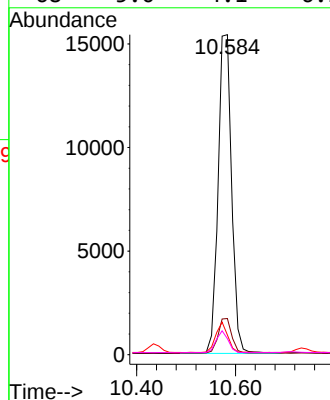
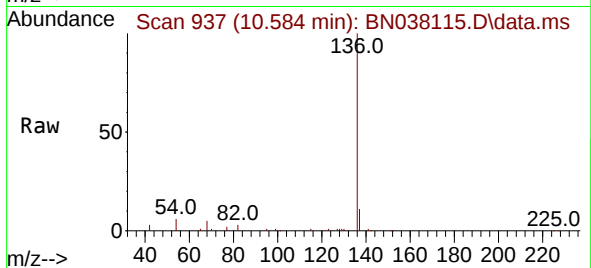




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.584 min Scan# 91  
Delta R.T. 0.011 min  
Lab File: BN038115.D  
Acq: 28 Oct 2025 15:25

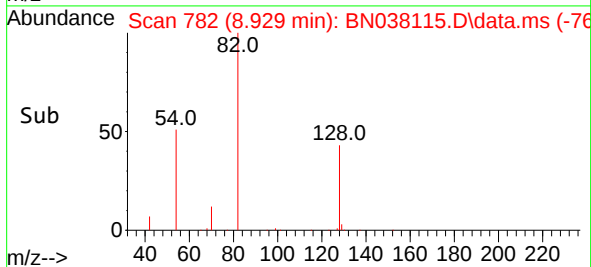
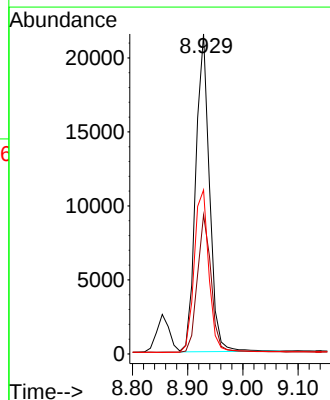
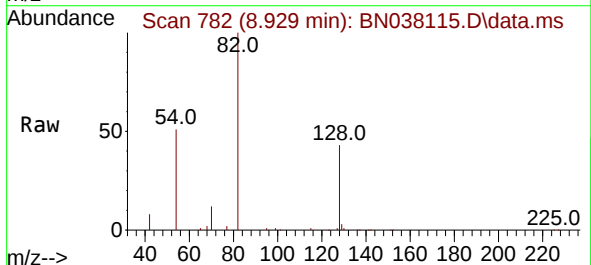
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

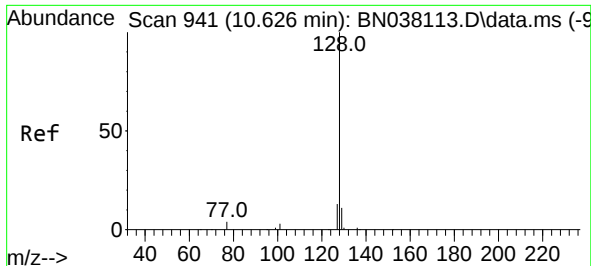
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 29279 |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 11.3  | 9.0   | 13.4  |
| 54       | 6.1   | 5.2   | 7.8   |
| 68       | 5.0   | 4.1   | 6.1   |



#8  
Nitrobenzene-d5  
Concen: 1.566 ng  
RT: 8.929 min Scan# 782  
Delta R.T. 0.000 min  
Lab File: BN038115.D  
Acq: 28 Oct 2025 15:25

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 36991 |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 43.5  | 34.1  | 51.1  |
| 54       | 51.3  | 43.5  | 65.3  |

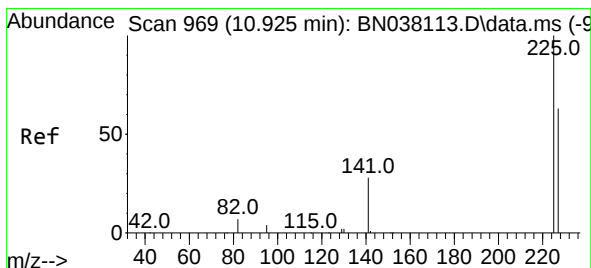
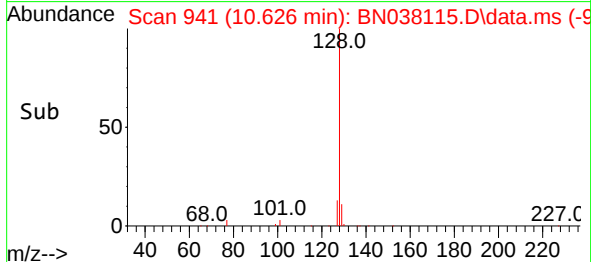
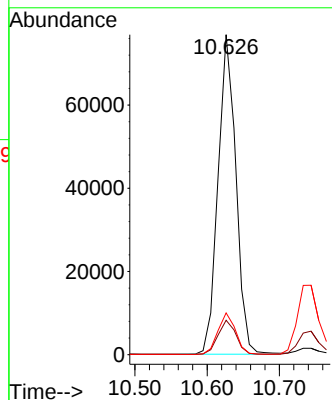
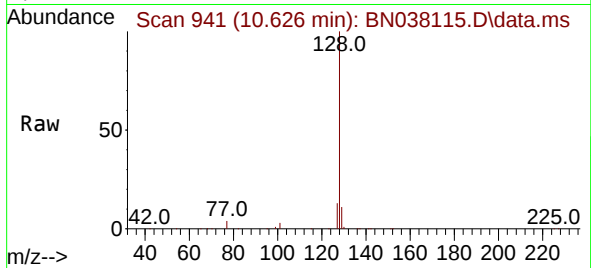




#9  
Naphthalene  
Concen: 1.634 ng  
RT: 10.626 min Scan# 941  
Delta R.T. 0.000 min  
Lab File: BN038115.D  
Acq: 28 Oct 2025 15:25

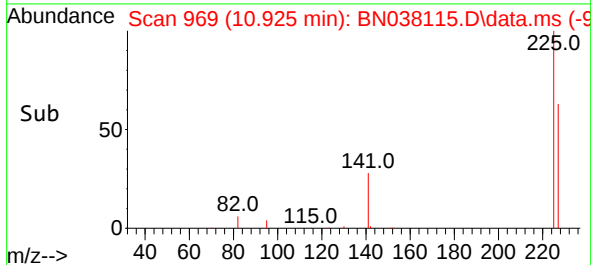
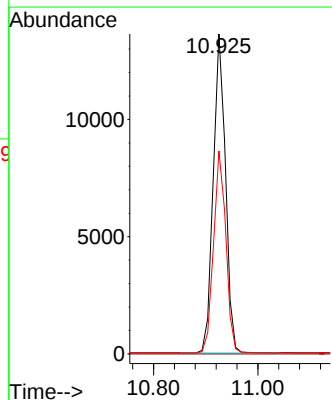
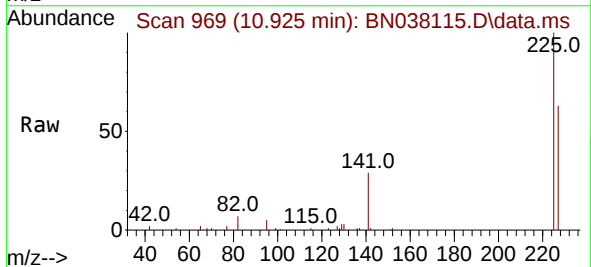
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

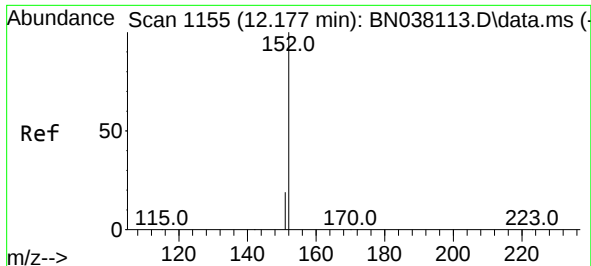
Tgt Ion:128 Resp: 131755  
Ion Ratio Lower Upper  
128 100  
129 10.8 9.1 13.7  
127 13.1 10.5 15.7



#10  
Hexachlorobutadiene  
Concen: 1.617 ng  
RT: 10.925 min Scan# 969  
Delta R.T. 0.000 min  
Lab File: BN038115.D  
Acq: 28 Oct 2025 15:25

Tgt Ion:225 Resp: 22006  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 63.8 50.3 75.5

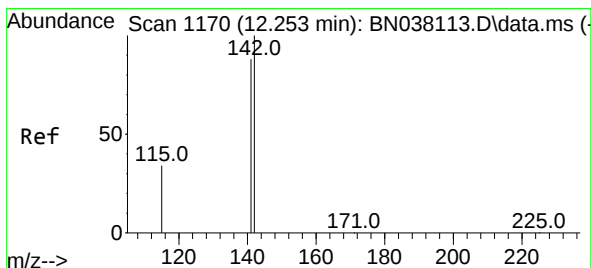
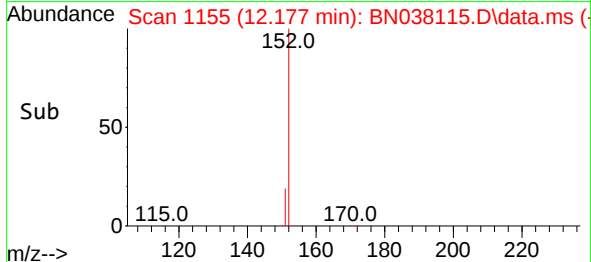
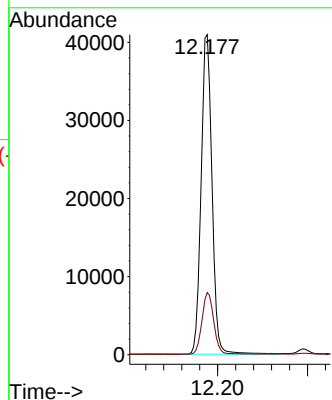
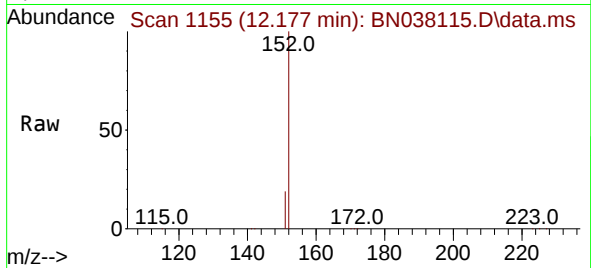




#11  
2-Methylnaphthalene-d10  
Concen: 1.642 ng  
RT: 12.177 min Scan# 1155  
Delta R.T. 0.000 min  
Lab File: BN038115.D  
Acq: 28 Oct 2025 15:25

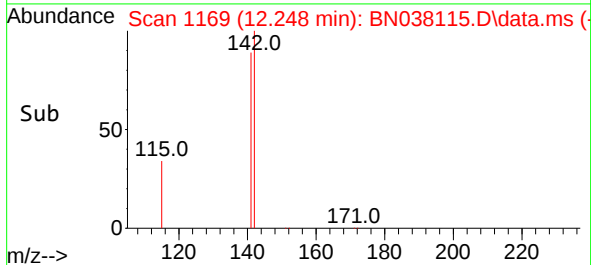
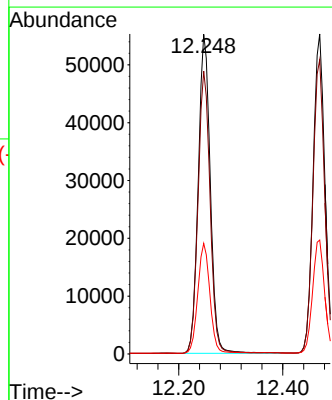
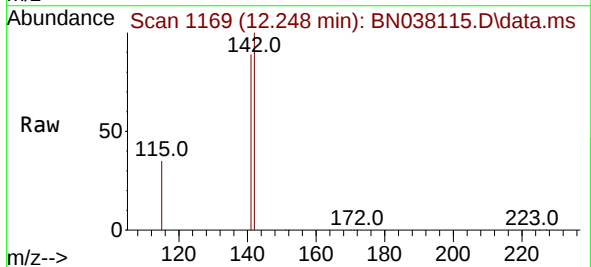
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

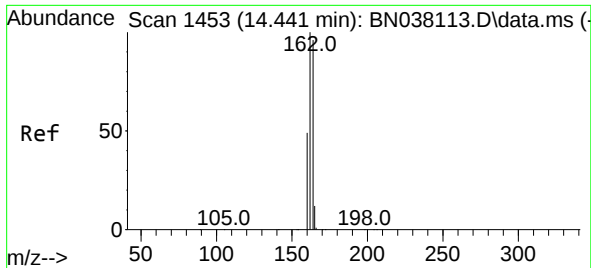
Tgt Ion:152 Resp: 68673  
Ion Ratio Lower Upper  
152 100  
151 20.9 16.8 25.2



#12  
2-Methylnaphthalene  
Concen: 1.649 ng  
RT: 12.248 min Scan# 1169  
Delta R.T. 0.000 min  
Lab File: BN038115.D  
Acq: 28 Oct 2025 15:25

Tgt Ion:142 Resp: 88687  
Ion Ratio Lower Upper  
142 100  
141 88.5 70.3 105.5  
115 34.6 27.8 41.6

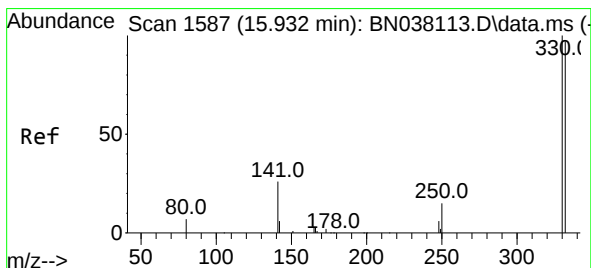
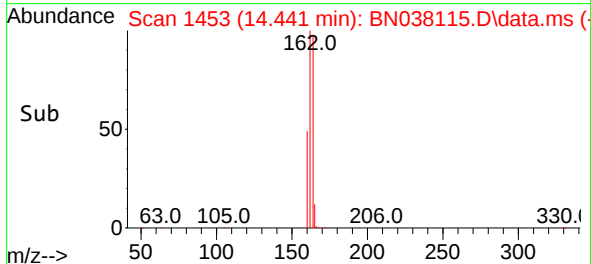
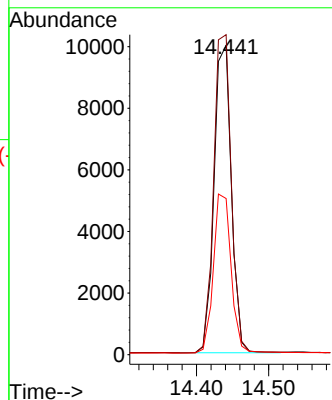
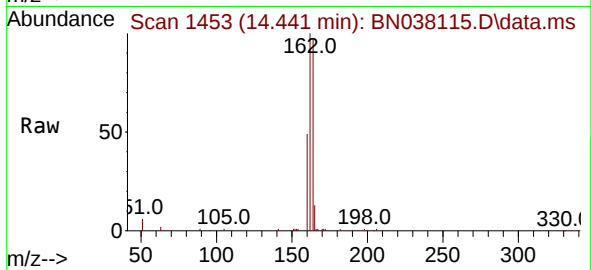




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.441 min Scan# 1453  
Delta R.T. 0.011 min  
Lab File: BN038115.D  
Acq: 28 Oct 2025 15:25

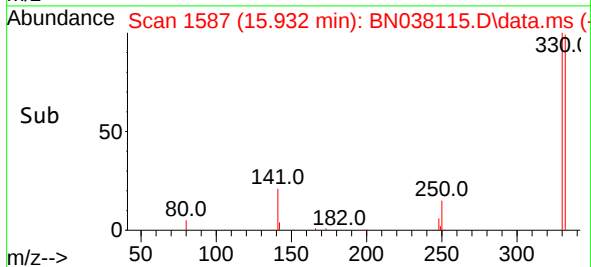
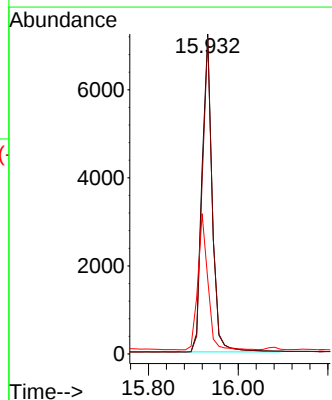
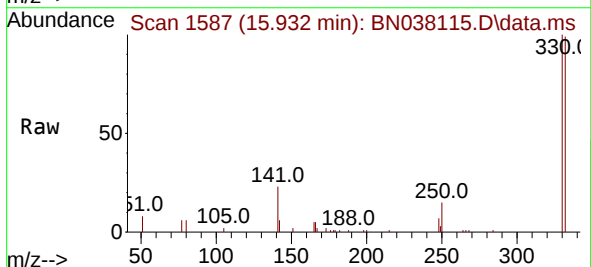
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

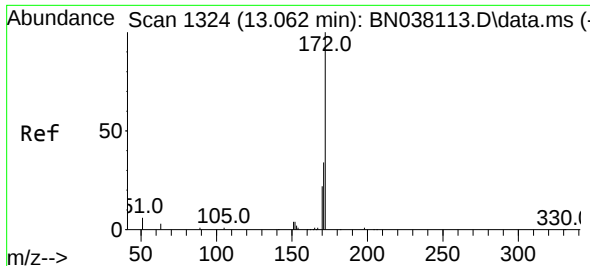
Tgt Ion:164 Resp: 16624  
Ion Ratio Lower Upper  
164 100  
162 103.5 83.0 124.4  
160 50.5 40.7 61.1



#14  
2,4,6-Tribromophenol  
Concen: 1.663 ng  
RT: 15.932 min Scan# 1587  
Delta R.T. 0.000 min  
Lab File: BN038115.D  
Acq: 28 Oct 2025 15:25

Tgt Ion:330 Resp: 11390  
Ion Ratio Lower Upper  
330 100  
332 97.4 76.6 114.8  
141 41.9 34.1 51.1

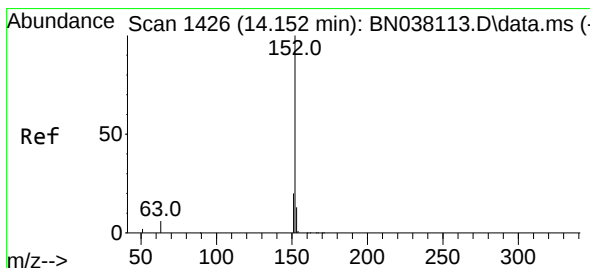
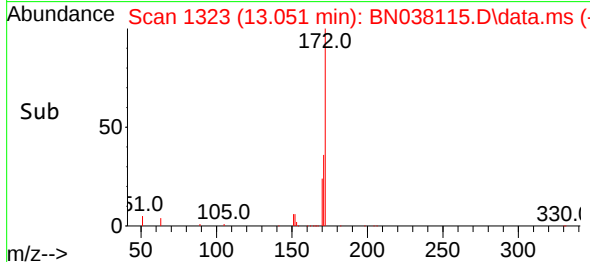
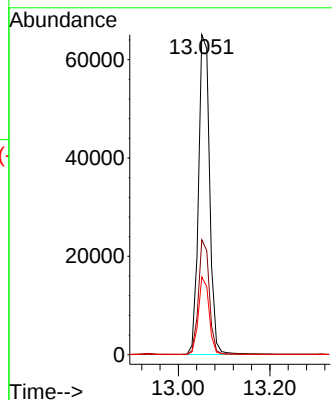
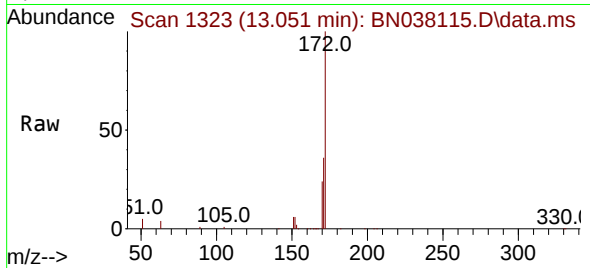




#15  
2-Fluorobiphenyl  
Concen: 1.613 ng  
RT: 13.051 min Scan# 1323  
Delta R.T. 0.000 min  
Lab File: BN038115.D  
Acq: 28 Oct 2025 15:25

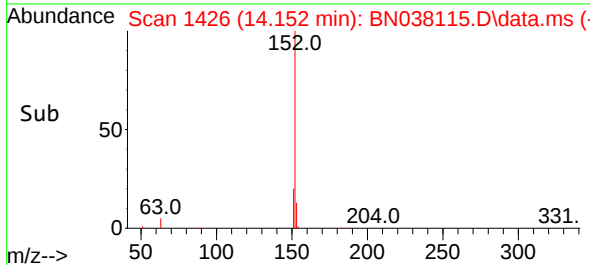
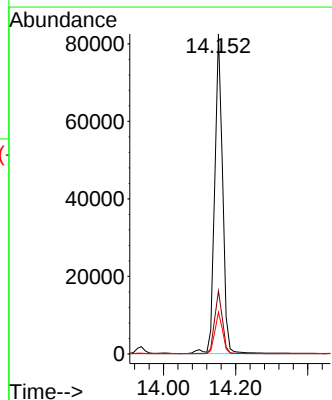
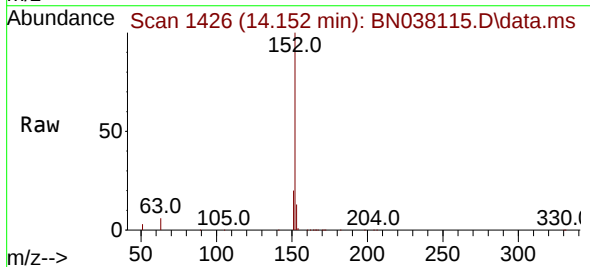
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BNA\_N  
ClientSampleId :  
SSTDICC1.6

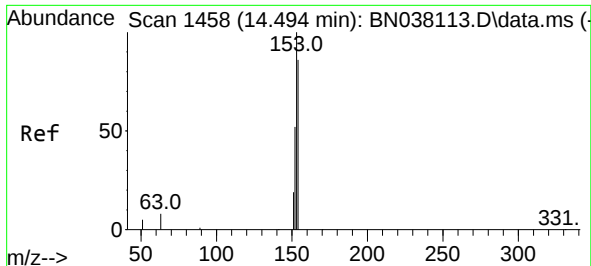
Tgt Ion:172 Resp: 107386  
Ion Ratio Lower Upper  
172 100  
171 35.9 27.8 41.6  
170 24.3 18.1 27.1



#16  
Acenaphthylene  
Concen: 1.671 ng  
RT: 14.152 min Scan# 1426  
Delta R.T. 0.000 min  
Lab File: BN038115.D  
Acq: 28 Oct 2025 15:25

Tgt Ion:152 Resp: 125798  
Ion Ratio Lower Upper  
152 100  
151 19.4 15.8 23.8  
153 13.0 10.2 15.2

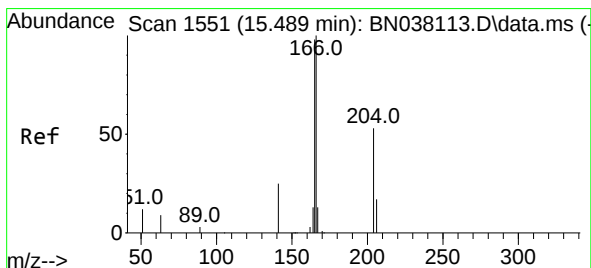
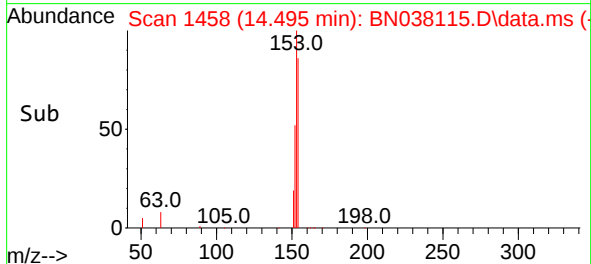
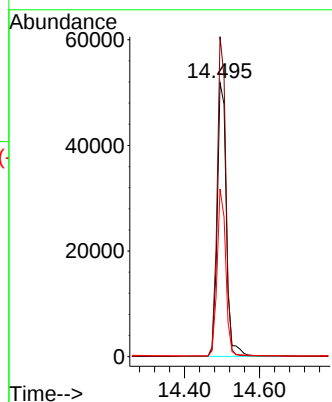
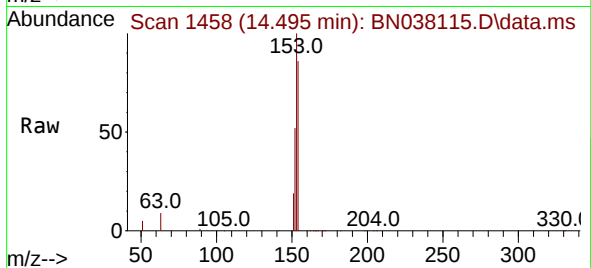




#17  
Acenaphthene  
Concen: 1.664 ng  
RT: 14.495 min Scan# 1458  
Delta R.T. 0.000 min  
Lab File: BN038115.D  
Acq: 28 Oct 2025 15:25

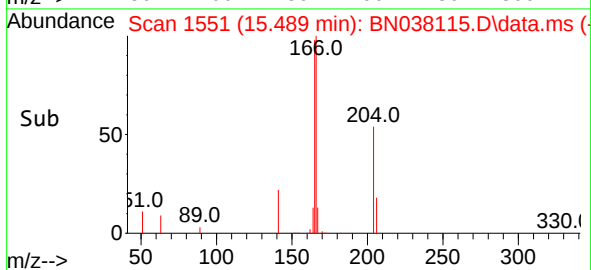
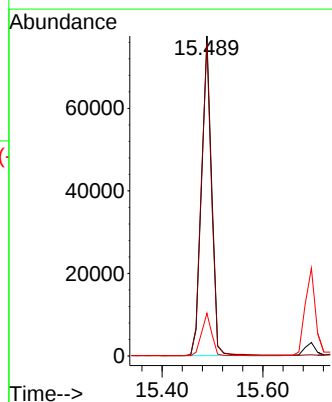
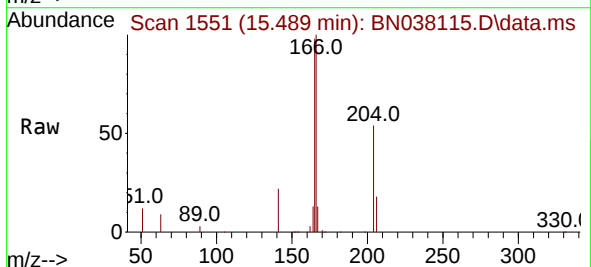
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

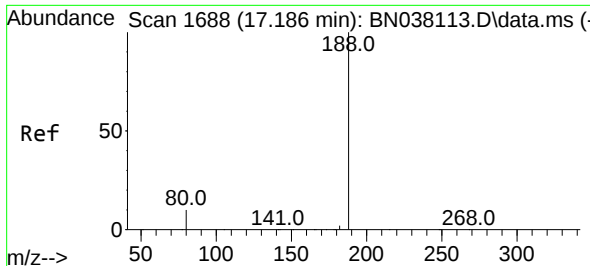
Tgt Ion:154 Resp: 87659  
Ion Ratio Lower Upper  
154 100  
153 110.3 90.0 135.0  
152 57.5 47.3 70.9



#18  
Fluorene  
Concen: 1.703 ng  
RT: 15.489 min Scan# 1551  
Delta R.T. -0.000 min  
Lab File: BN038115.D  
Acq: 28 Oct 2025 15:25

Tgt Ion:166 Resp: 117574  
Ion Ratio Lower Upper  
166 100  
165 98.4 79.0 118.4  
167 13.2 10.7 16.1

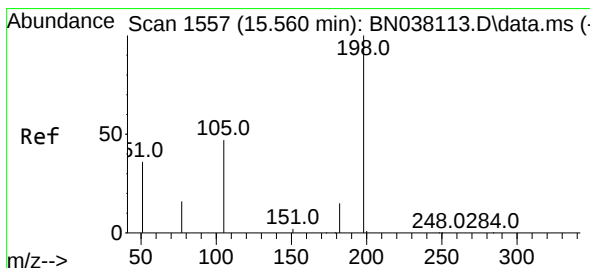
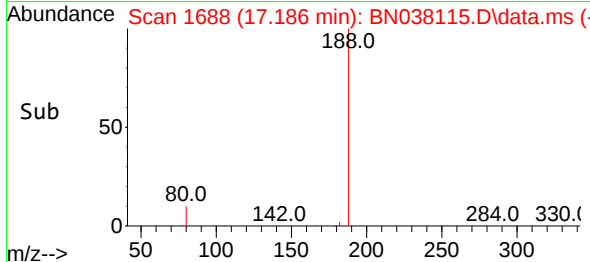
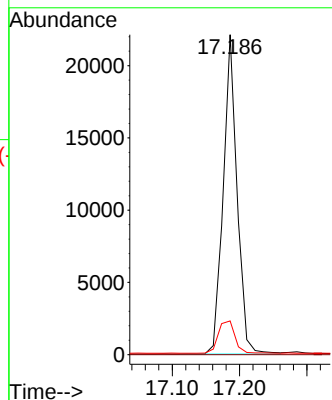
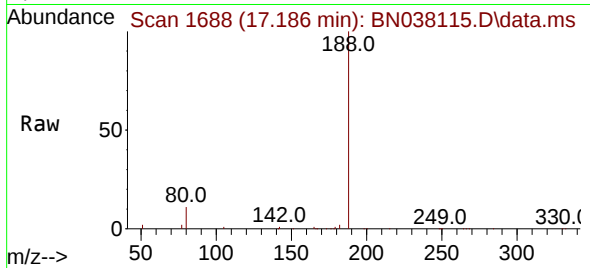




#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 17.186 min Scan# 1688  
Delta R.T. 0.000 min  
Lab File: BN038115.D  
Acq: 28 Oct 2025 15:25

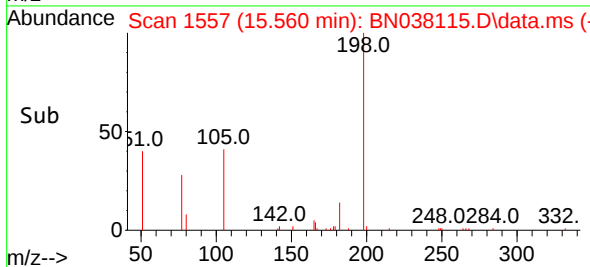
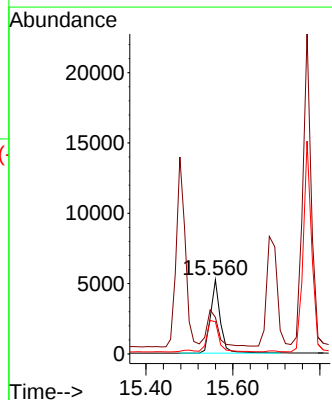
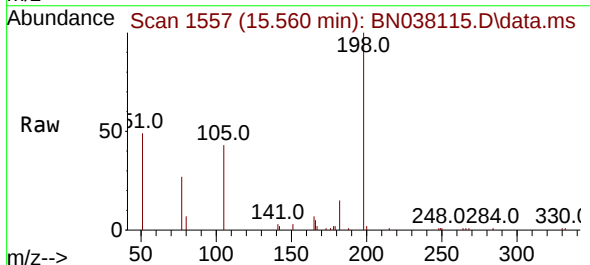
Instrument :  
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ClientSampleId :  
SSTDICC1.6

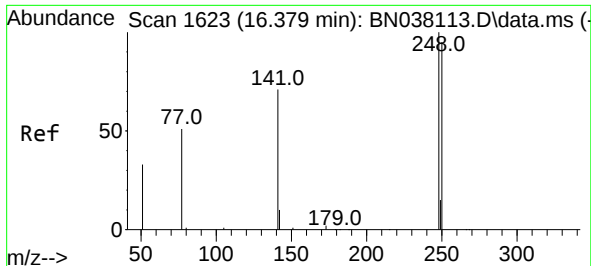
Tgt Ion:188 Resp: 31469  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 10.6 8.6 13.0



#20  
4,6-Dinitro-2-methylphenol  
Concen: 1.534 ng  
RT: 15.560 min Scan# 1557  
Delta R.T. -0.000 min  
Lab File: BN038115.D  
Acq: 28 Oct 2025 15:25

Tgt Ion:198 Resp: 7997  
Ion Ratio Lower Upper  
198 100  
51 49.4 88.9 133.3#  
105 43.5 49.2 73.8#

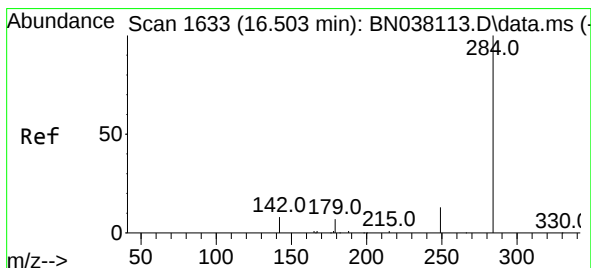
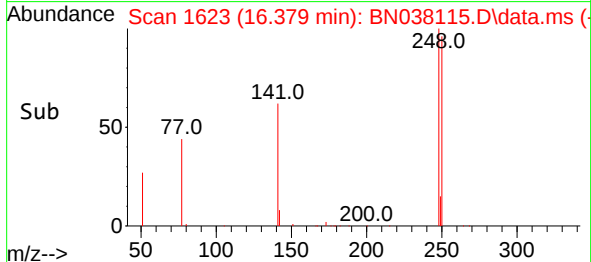
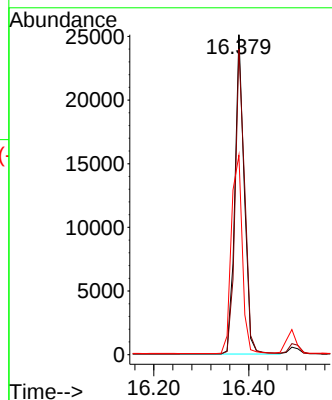
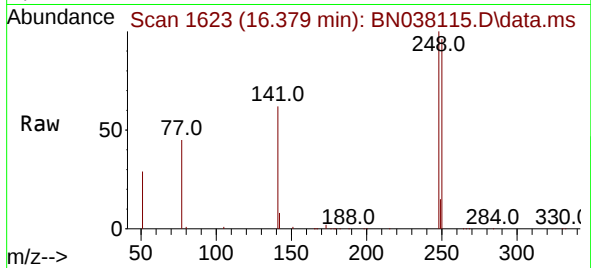




#21  
4-Bromophenyl-phenylether  
Concen: 1.669 ng  
RT: 16.379 min Scan# 1623  
Delta R.T. 0.000 min  
Lab File: BN038115.D  
Acq: 28 Oct 2025 15:25

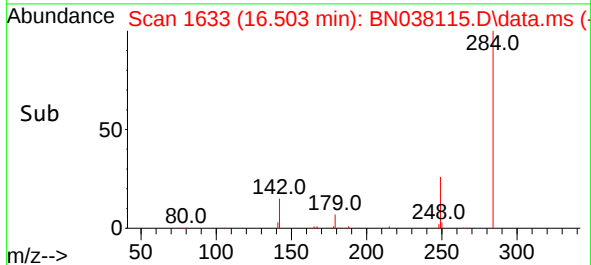
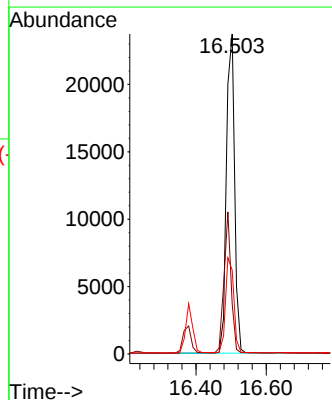
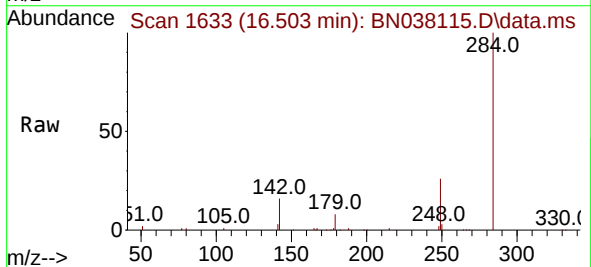
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

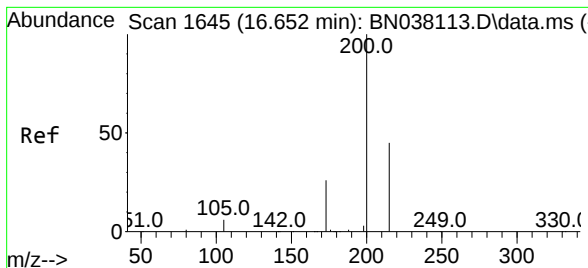
Tgt Ion:248 Resp: 34434  
Ion Ratio Lower Upper  
248 100  
250 95.6 76.2 114.2  
141 62.3 57.6 86.4



#22  
Hexachlorobenzene  
Concen: 1.642 ng  
RT: 16.503 min Scan# 1633  
Delta R.T. 0.000 min  
Lab File: BN038115.D  
Acq: 28 Oct 2025 15:25

Tgt Ion:284 Resp: 38518  
Ion Ratio Lower Upper  
284 100  
142 38.3 30.5 45.7  
249 30.0 23.5 35.3





#23

Atrazine

Concen: 1.693 ng

RT: 16.652 min Scan# 1645

Delta R.T. 0.000 min

Lab File: BN038115.D

Acq: 28 Oct 2025 15:25

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6

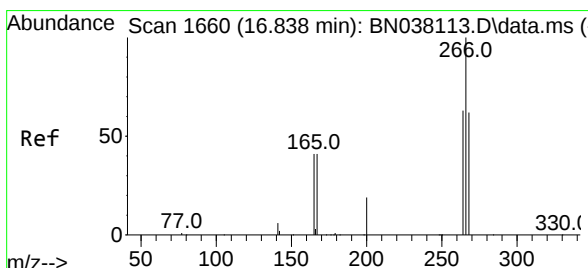
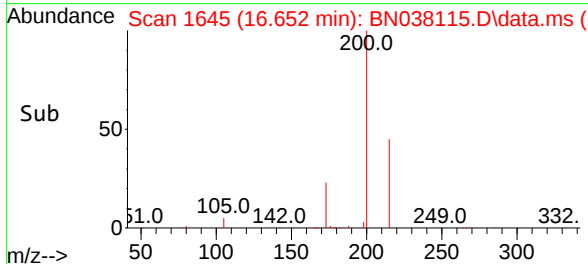
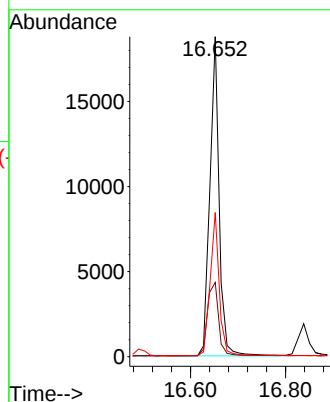
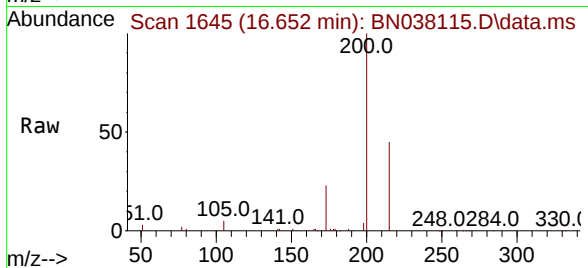
Tgt Ion:200 Resp: 25585

Ion Ratio Lower Upper

200 100

173 23.2 21.4 32.2

215 45.1 36.7 55.1



#24

Pentachlorophenol

Concen: 1.646 ng

RT: 16.838 min Scan# 1660

Delta R.T. 0.000 min

Lab File: BN038115.D

Acq: 28 Oct 2025 15:25

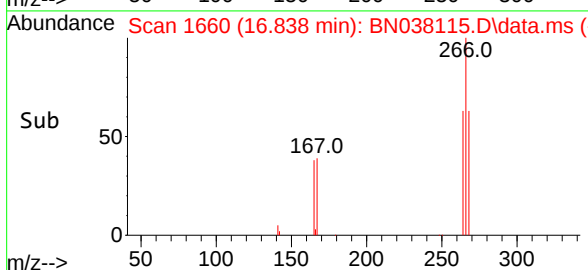
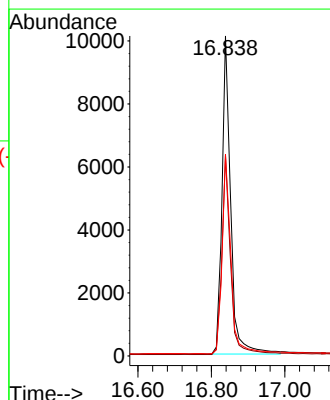
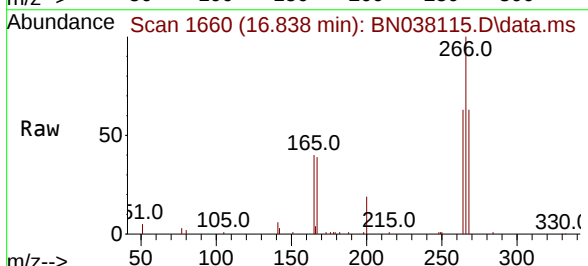
Tgt Ion:266 Resp: 16638

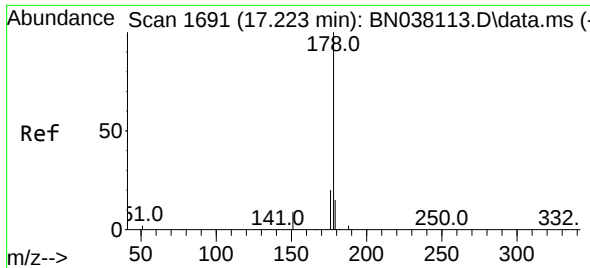
Ion Ratio Lower Upper

266 100

264 62.5 49.3 73.9

268 63.5 50.6 75.8

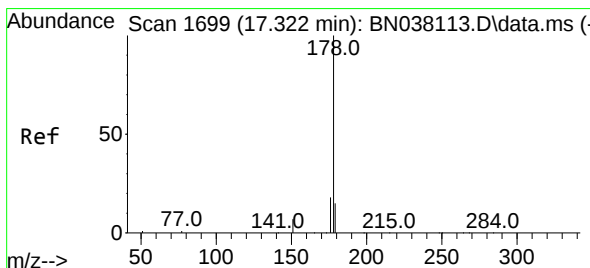
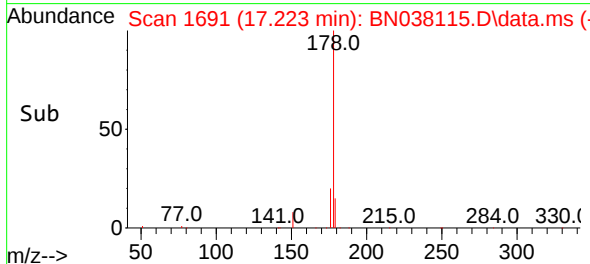
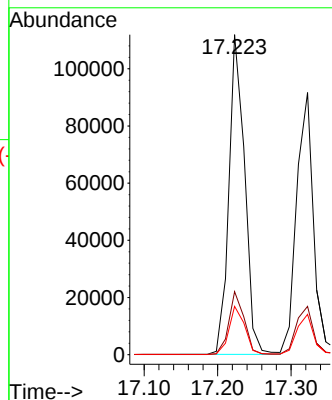
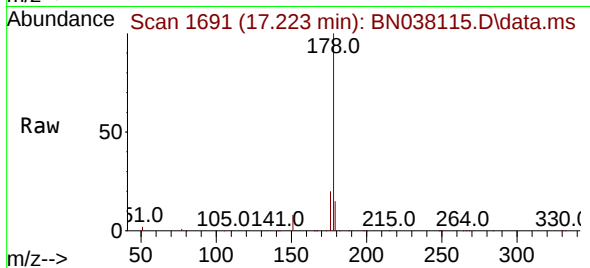




#25  
Phenanthrene  
Concen: 1.671 ng  
RT: 17.223 min Scan# 1691  
Delta R.T. 0.000 min  
Lab File: BN038115.D  
Acq: 28 Oct 2025 15:25

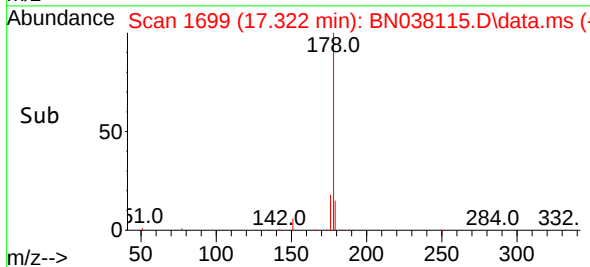
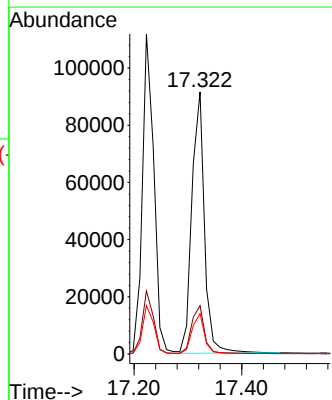
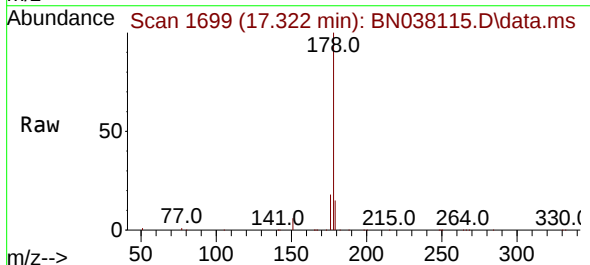
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

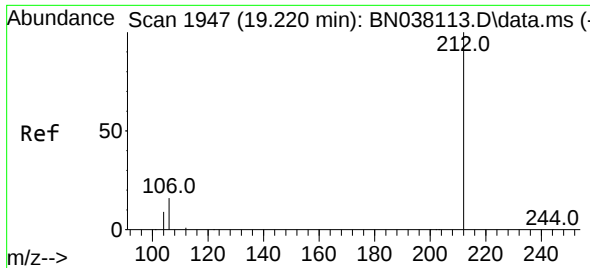
Tgt Ion:178 Resp: 166989  
Ion Ratio Lower Upper  
178 100  
176 19.2 15.5 23.3  
179 15.2 12.2 18.4



#26  
Anthracene  
Concen: 1.702 ng  
RT: 17.322 min Scan# 1699  
Delta R.T. 0.000 min  
Lab File: BN038115.D  
Acq: 28 Oct 2025 15:25

Tgt Ion:178 Resp: 148754  
Ion Ratio Lower Upper  
178 100  
176 18.6 14.9 22.3  
179 15.2 11.8 17.8

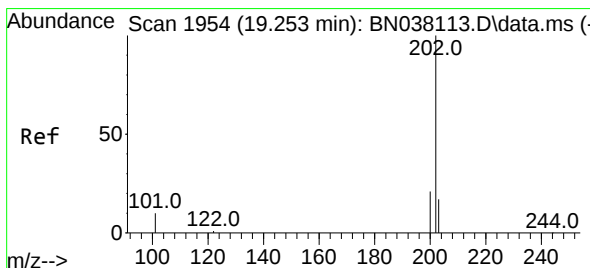
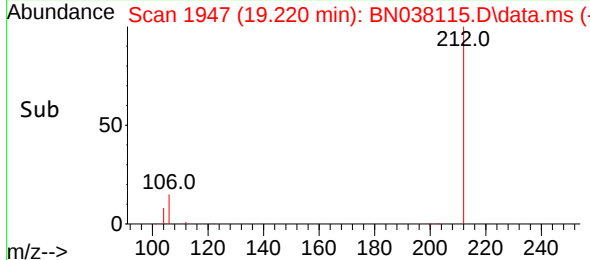
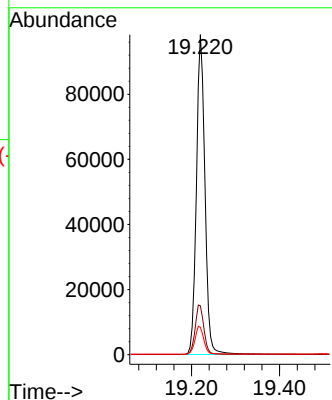
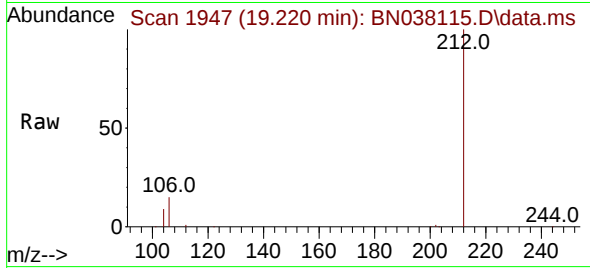




#27  
Fluoranthene-d10  
Concen: 1.665 ng  
RT: 19.220 min Scan# 1947  
Delta R.T. 0.000 min  
Lab File: BN038115.D  
Acq: 28 Oct 2025 15:25

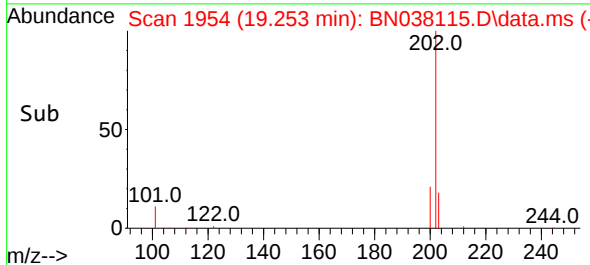
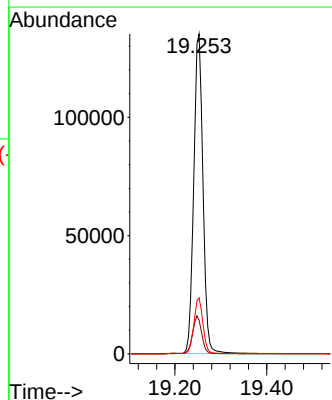
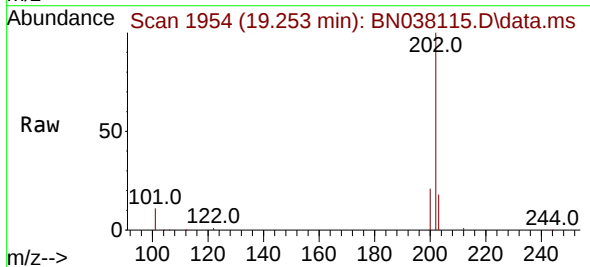
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

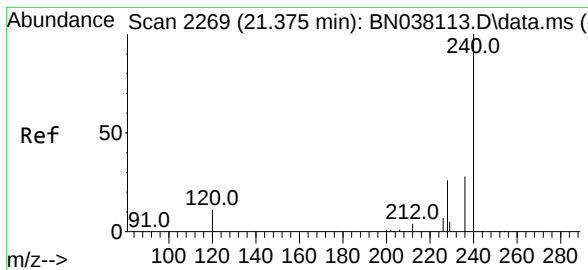
Tgt Ion:212 Resp: 132146  
Ion Ratio Lower Upper  
212 100  
106 16.0 12.6 19.0  
104 8.9 7.1 10.7



#28  
Fluoranthene  
Concen: 1.682 ng  
RT: 19.253 min Scan# 1954  
Delta R.T. 0.000 min  
Lab File: BN038115.D  
Acq: 28 Oct 2025 15:25

Tgt Ion:202 Resp: 187774  
Ion Ratio Lower Upper  
202 100  
101 11.9 9.4 14.2  
203 17.2 13.4 20.2





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.375 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN038115.D

Acq: 28 Oct 2025 15:25

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6

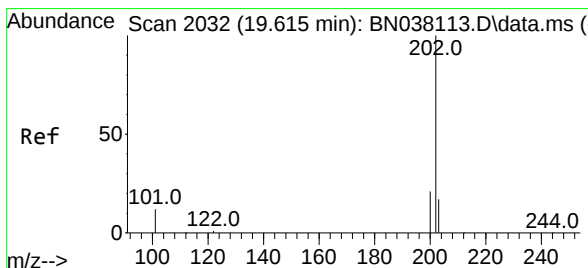
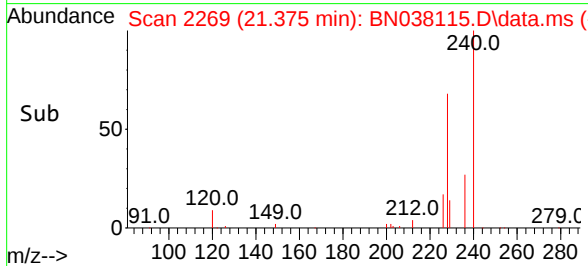
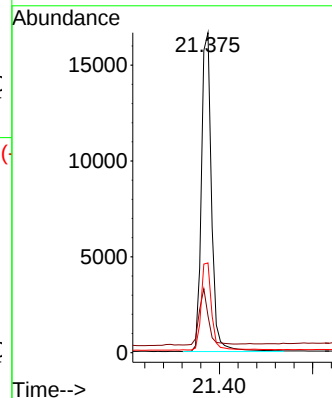
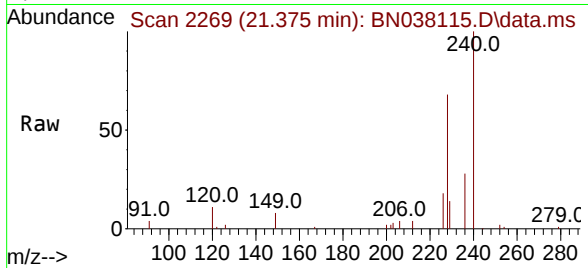
Tgt Ion:240 Resp: 25173

Ion Ratio Lower Upper

240 100

120 11.5 10.7 16.1

236 28.0 23.1 34.7



#30

Pyrene

Concen: 1.626 ng

RT: 19.610 min Scan# 2031

Delta R.T. 0.000 min

Lab File: BN038115.D

Acq: 28 Oct 2025 15:25

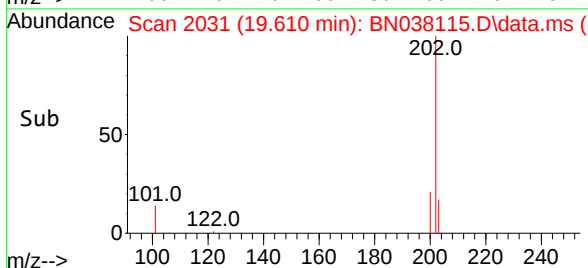
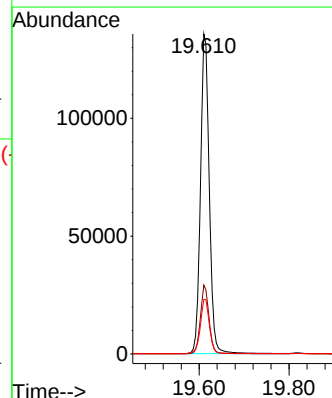
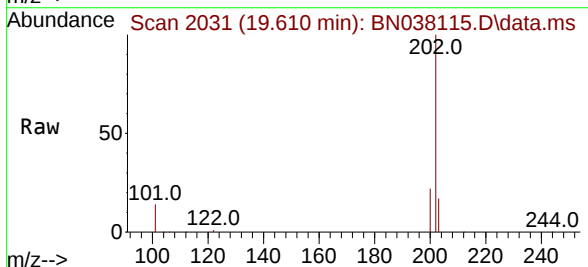
Tgt Ion:202 Resp: 184735

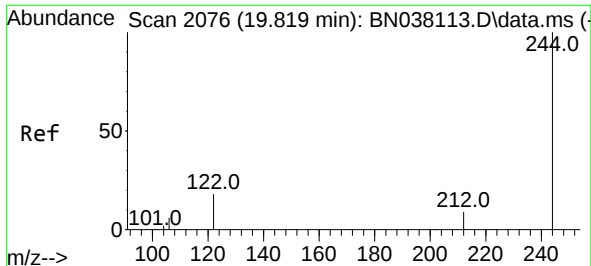
Ion Ratio Lower Upper

202 100

200 21.0 16.7 25.1

203 17.7 14.2 21.2

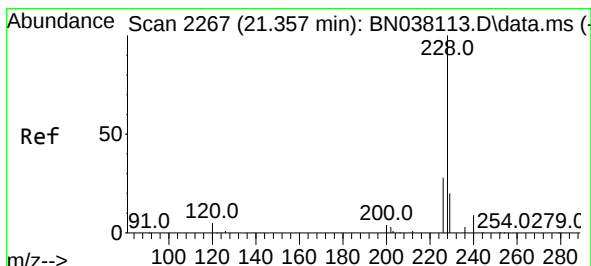
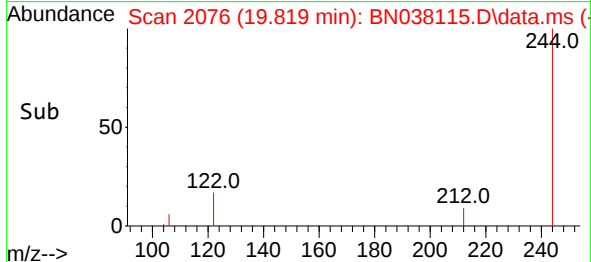
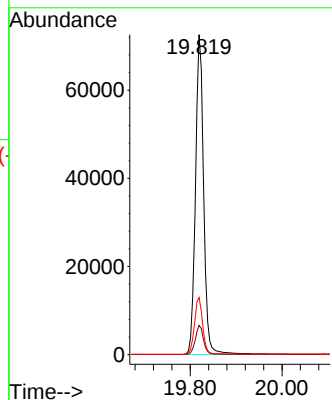
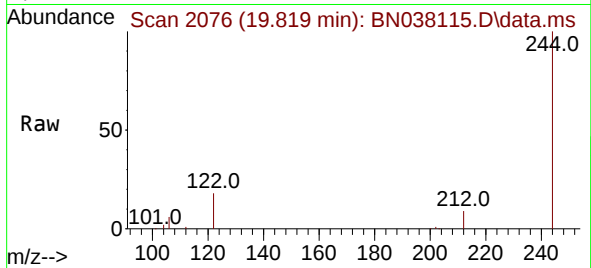




#31  
 Terphenyl-d14  
 Concen: 1.642 ng  
 RT: 19.819 min Scan# 2076  
 Delta R.T. 0.000 min  
 Lab File: BN038115.D  
 Acq: 28 Oct 2025 15:25

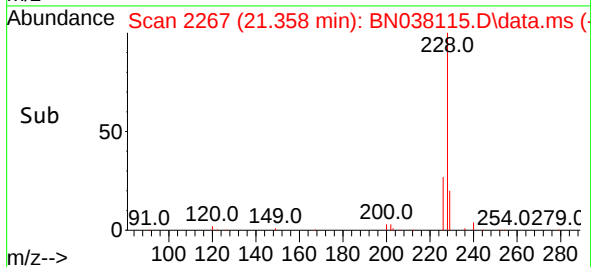
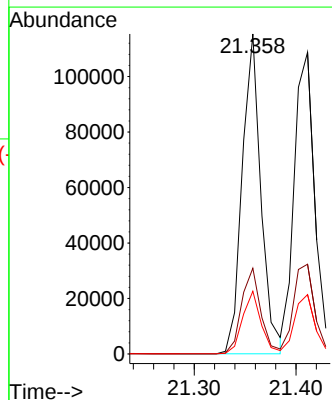
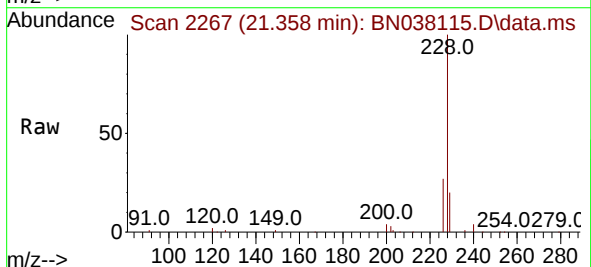
Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC1.6

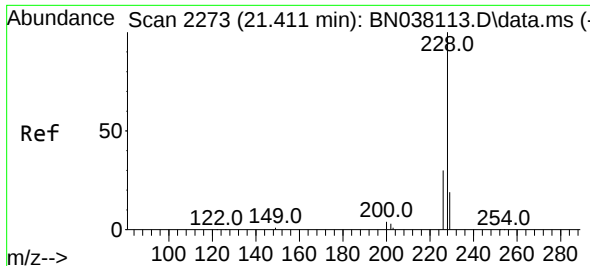
Tgt Ion:244 Resp: 89776  
 Ion Ratio Lower Upper  
 244 100  
 212 9.1 7.8 11.6  
 122 17.8 15.2 22.8



#32  
 Benzo(a)anthracene  
 Concen: 1.647 ng  
 RT: 21.358 min Scan# 2267  
 Delta R.T. 0.000 min  
 Lab File: BN038115.D  
 Acq: 28 Oct 2025 15:25

Tgt Ion:228 Resp: 147889  
 Ion Ratio Lower Upper  
 228 100  
 226 26.8 22.2 33.4  
 229 19.6 15.8 23.8

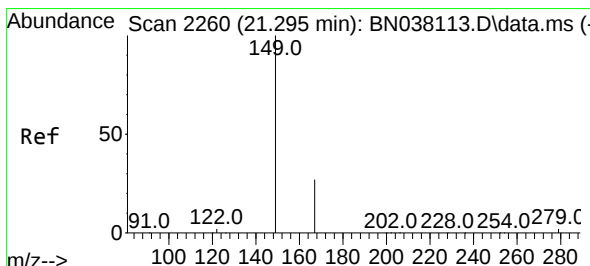
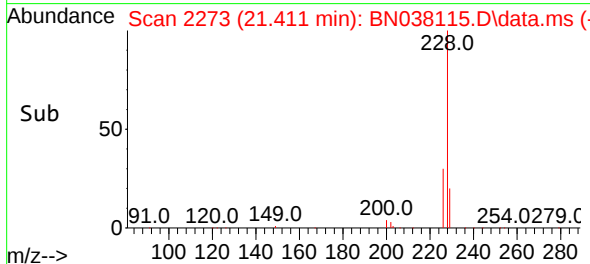
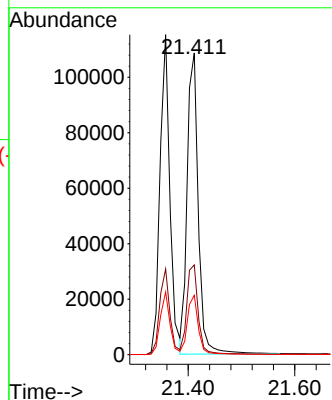
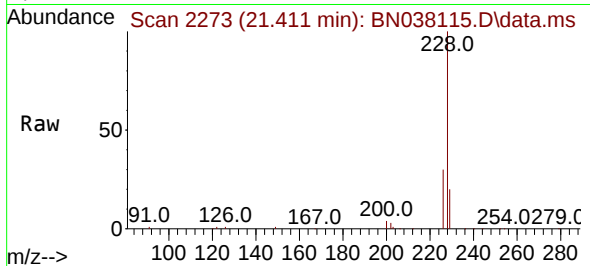




#33  
Chrysene  
Concen: 1.610 ng  
RT: 21.411 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: BN038115.D  
Acq: 28 Oct 2025 15:25

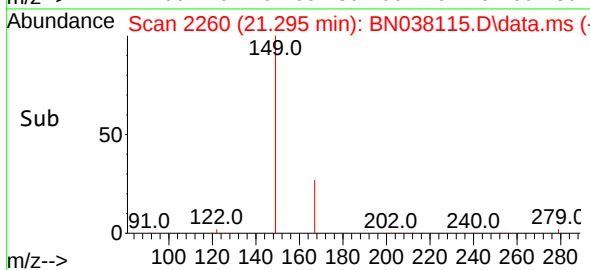
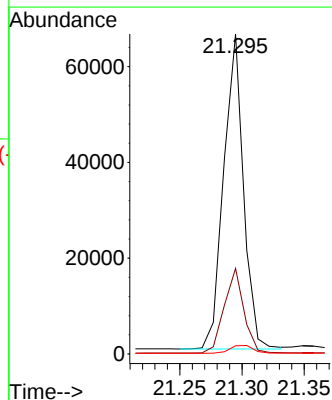
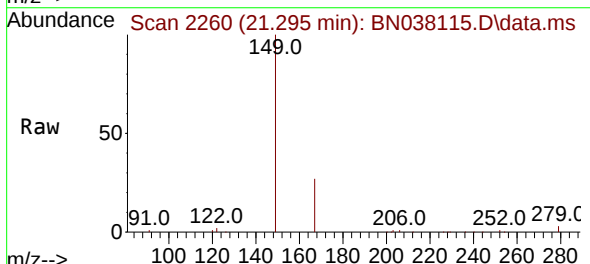
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

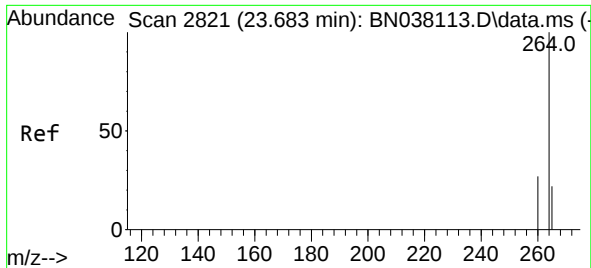
Tgt Ion:228 Resp: 156927  
Ion Ratio Lower Upper  
228 100  
226 29.8 24.3 36.5  
229 19.7 15.7 23.5



#34  
Bis(2-ethylhexyl)phthalate  
Concen: 1.535 ng  
RT: 21.295 min Scan# 2260  
Delta R.T. 0.000 min  
Lab File: BN038115.D  
Acq: 28 Oct 2025 15:25

Tgt Ion:149 Resp: 72607  
Ion Ratio Lower Upper  
149 100  
167 26.6 21.1 31.7  
279 3.0 2.9 4.3

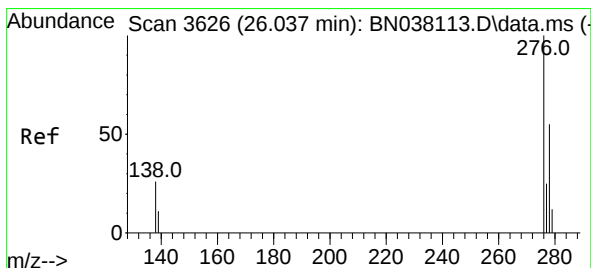
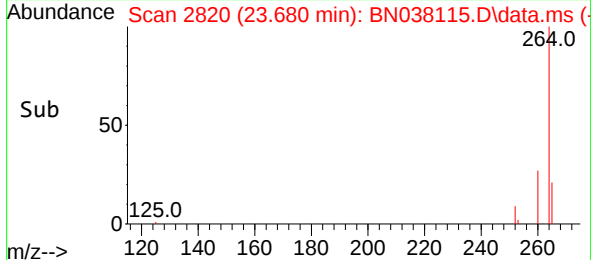
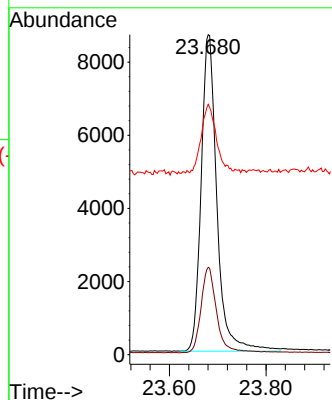
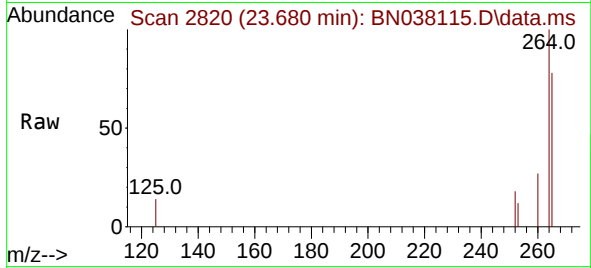




#35  
 Perylene-d12  
 Concen: 0.400 ng  
 RT: 23.680 min Scan# 21  
 Delta R.T. 0.000 min  
 Lab File: BN038115.D  
 Acq: 28 Oct 2025 15:25

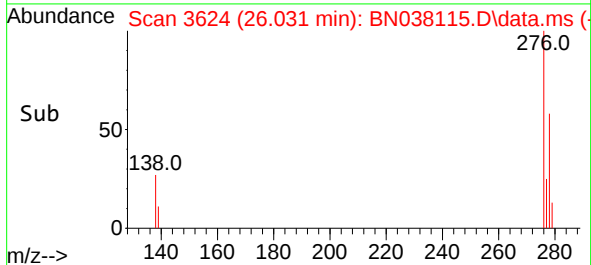
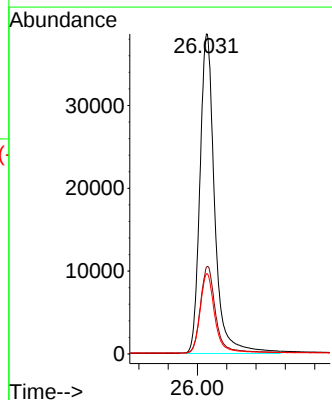
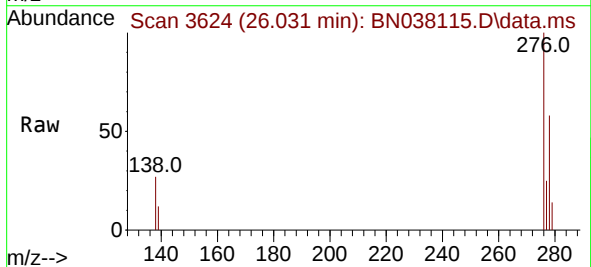
Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC1.6

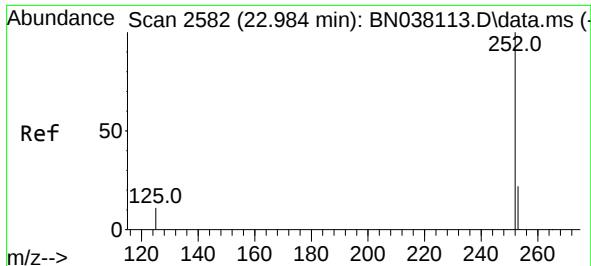
Tgt Ion:264 Resp: 19529  
 Ion Ratio Lower Upper  
 264 100  
 260 27.3 21.8 32.8  
 265 78.3 68.6 102.8



#36  
 Indeno(1,2,3-cd)pyrene  
 Concen: 1.685 ng  
 RT: 26.031 min Scan# 3624  
 Delta R.T. -0.003 min  
 Lab File: BN038115.D  
 Acq: 28 Oct 2025 15:25

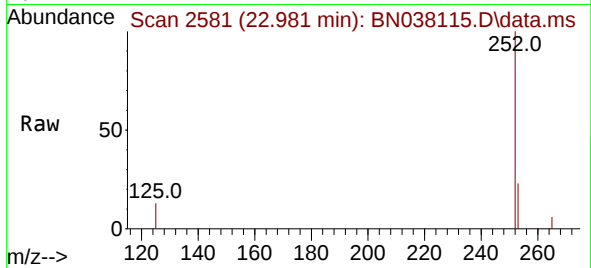
Tgt Ion:276 Resp: 135169  
 Ion Ratio Lower Upper  
 276 100  
 138 27.6 21.4 32.0  
 277 24.5 19.2 28.8



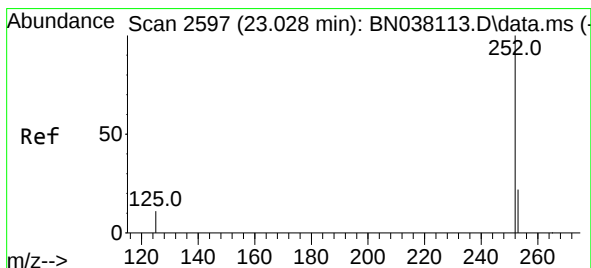
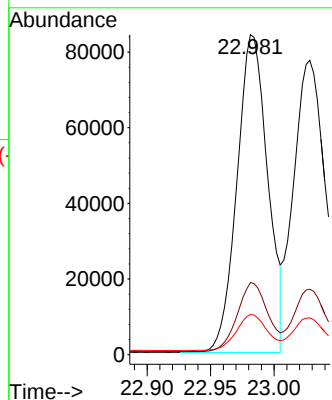


#37  
Benzo(b)fluoranthene  
Concen: 1.689 ng  
RT: 22.981 min Scan# 2581  
Delta R.T. 0.000 min  
Lab File: BN038115.D  
Acq: 28 Oct 2025 15:25

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

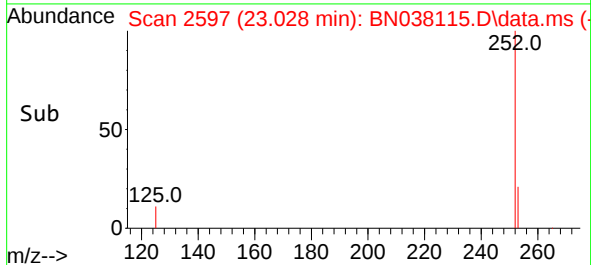
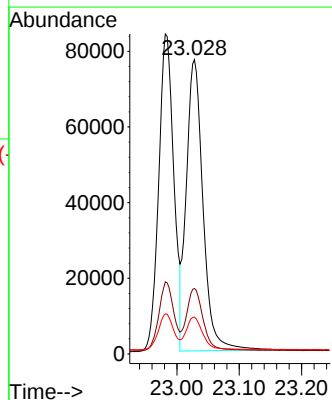
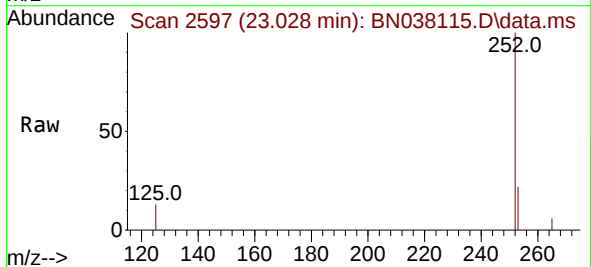


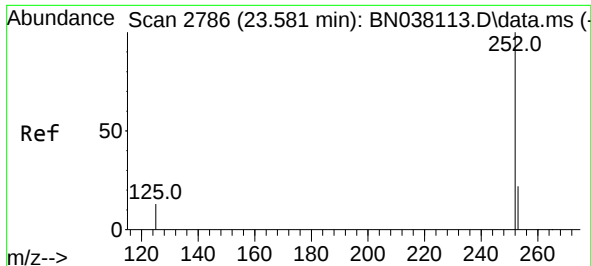
Tgt Ion:252 Resp: 141041  
Ion Ratio Lower Upper  
252 100  
253 22.5 20.9 31.3  
125 12.6 14.1 21.1#



#38  
Benzo(k)fluoranthene  
Concen: 1.702 ng  
RT: 23.028 min Scan# 2597  
Delta R.T. 0.000 min  
Lab File: BN038115.D  
Acq: 28 Oct 2025 15:25

Tgt Ion:252 Resp: 143019  
Ion Ratio Lower Upper  
252 100  
253 22.2 21.2 31.8  
125 12.5 14.6 22.0#





#39

Benzo(a)pyrene

Concen: 1.660 ng

RT: 23.578 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN038115.D

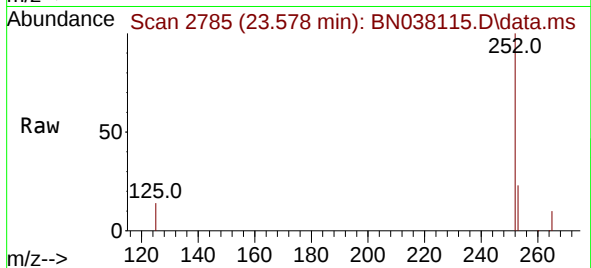
Acq: 28 Oct 2025 15:25

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6



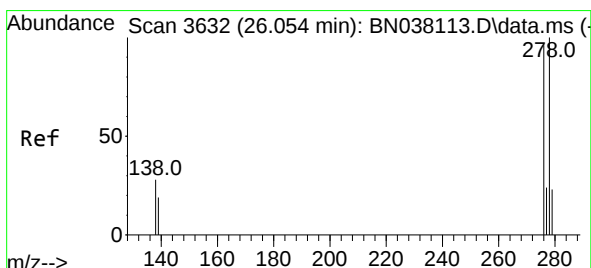
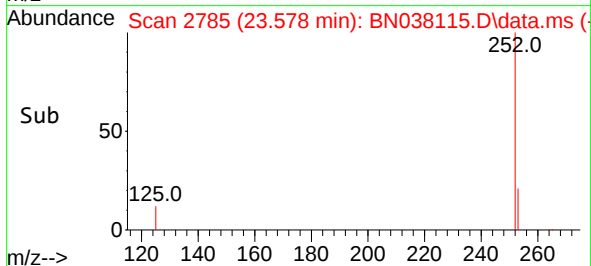
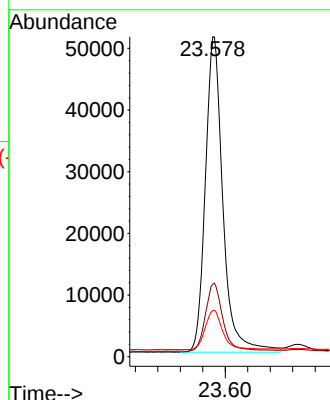
Tgt Ion:252 Resp: 110949

Ion Ratio Lower Upper

252 100

253 22.7 23.1 34.7#

125 14.4 18.6 28.0#



#40

Dibenzo(a,h)anthracene

Concen: 1.710 ng

RT: 26.048 min Scan# 3630

Delta R.T. 0.000 min

Lab File: BN038115.D

Acq: 28 Oct 2025 15:25

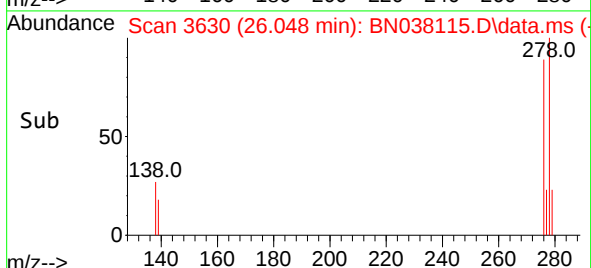
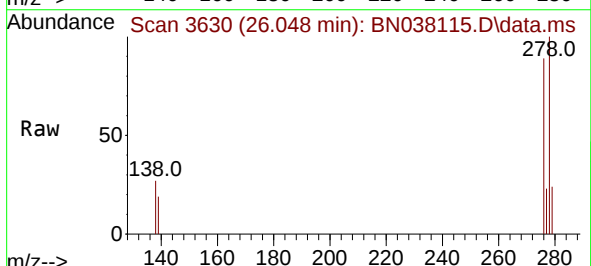
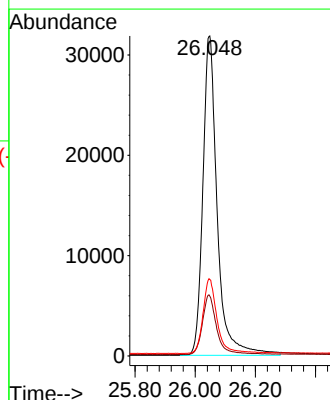
Tgt Ion:278 Resp: 105589

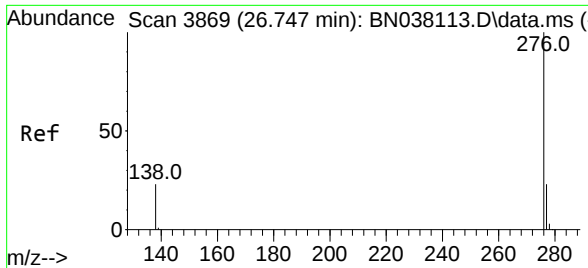
Ion Ratio Lower Upper

278 100

139 18.7 17.6 26.4

279 23.9 22.6 33.8

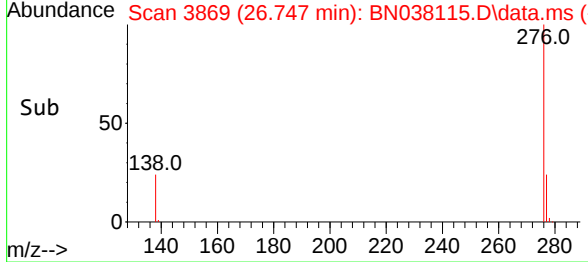
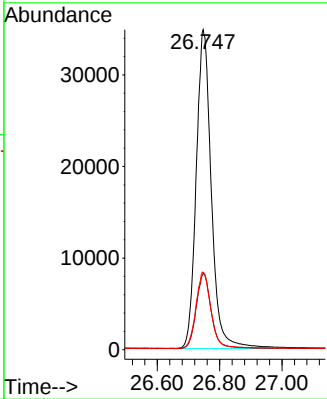
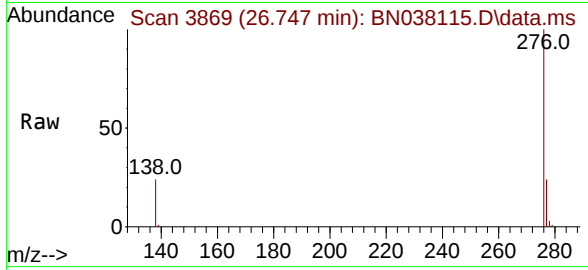




#41  
Benzo(g,h,i)perylene  
Concen: 1.660 ng  
RT: 26.747 min Scan# 3869  
Delta R.T. -0.003 min  
Lab File: BN038115.D  
Acq: 28 Oct 2025 15:25

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

Tgt Ion:276 Resp: 117071  
Ion Ratio Lower Upper  
276 100  
277 23.9 19.7 29.5  
138 24.2 20.2 30.4



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN102825\  
 Data File : BN038116.D  
 Acq On : 28 Oct 2025 16:02  
 Operator : RC/JU  
 Sample : SSTDICC3.2  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC3.2

Quant Time: Oct 28 17:31:55 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN102825.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Oct 28 17:15:13 2025  
 Response via : Initial Calibration

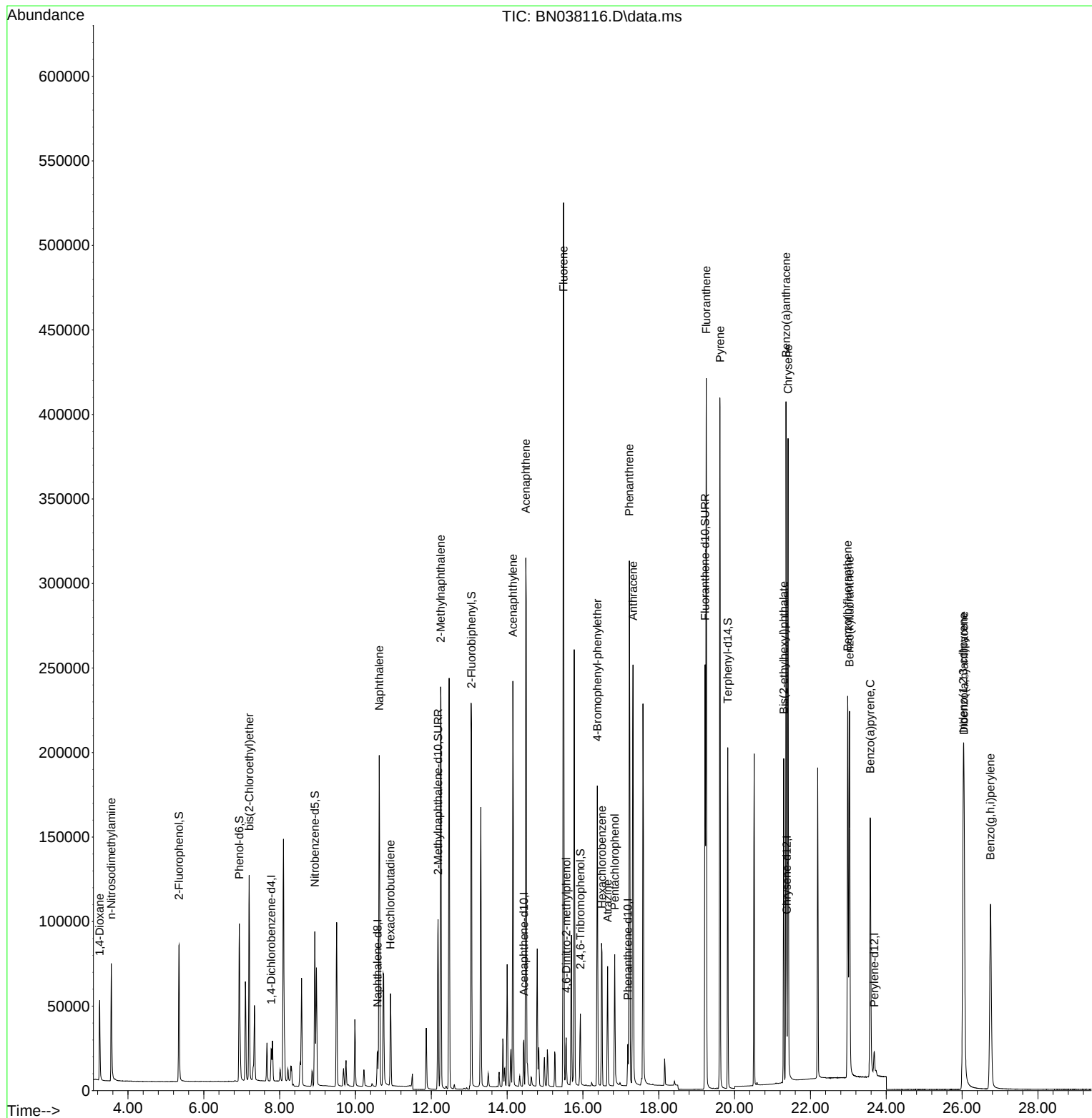
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.775  | 152  | 9743     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.584 | 136  | 28864    | 0.400 | ng    | 0.01     |
| 13) Acenaphthene-d10          | 14.441 | 164  | 16547    | 0.400 | ng    | 0.01     |
| 19) Phenanthrene-d10          | 17.186 | 188  | 31206    | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 21.375 | 240  | 26115    | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.683 | 264  | 19904    | 0.400 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.348  | 112  | 69778    | 3.040 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.937  | 99   | 88646    | 3.171 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.929  | 82   | 70830    | 3.041 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 12.177 | 152  | 134773   | 3.270 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.932 | 330  | 24045    | 3.527 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 13.062 | 172  | 200437   | 3.024 | ng    | 0.01     |
| 27) Fluoranthene-d10          | 19.220 | 212  | 263418   | 3.348 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.819 | 244  | 180175   | 3.176 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
| 2) 1,4-Dioxane                | 3.254  | 88   | 31207    | 3.100 | ng    | 99       |
| 3) n-Nitrosodimethylamine     | 3.557  | 42   | 41593    | 3.211 | ng    | 96       |
| 6) bis(2-Chloroethyl)ether    | 7.197  | 93   | 86904    | 3.164 | ng    | 99       |
| 9) Naphthalene                | 10.626 | 128  | 255606   | 3.215 | ng    | 99       |
| 10) Hexachlorobutadiene       | 10.925 | 225  | 42325    | 3.155 | ng    | # 99     |
| 12) 2-Methylnaphthalene       | 12.248 | 142  | 172992   | 3.263 | ng    | 98       |
| 16) Acenaphthylene            | 14.152 | 152  | 253121   | 3.378 | ng    | 99       |
| 17) Acenaphthene              | 14.495 | 154  | 173433   | 3.308 | ng    | 97       |
| 18) Fluorene                  | 15.489 | 166  | 230067   | 3.348 | ng    | 100      |
| 20) 4,6-Dinitro-2-methylph... | 15.560 | 198  | 18221    | 3.363 | ng    | # 47     |
| 21) 4-Bromophenyl-phenylether | 16.379 | 248  | 67616    | 3.305 | ng    | 99       |
| 22) Hexachlorobenzene         | 16.503 | 284  | 74101    | 3.185 | ng    | 99       |
| 23) Atrazine                  | 16.652 | 200  | 52181    | 3.482 | ng    | 97       |
| 24) Pentachlorophenol         | 16.838 | 266  | 36424    | 3.634 | ng    | 99       |
| 25) Phenanthrene              | 17.223 | 178  | 322719   | 3.257 | ng    | 100      |
| 26) Anthracene                | 17.322 | 178  | 295333   | 3.408 | ng    | 99       |
| 28) Fluoranthene              | 19.253 | 202  | 372238   | 3.363 | ng    | 99       |
| 30) Pyrene                    | 19.615 | 202  | 368946   | 3.130 | ng    | 100      |
| 32) Benzo(a)anthracene        | 21.358 | 228  | 308037   | 3.306 | ng    | 99       |
| 33) Chrysene                  | 21.411 | 228  | 317065   | 3.136 | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 21.295 | 149  | 157480   | 3.209 | ng    | 99       |
| 36) Indeno(1,2,3-cd)pyrene    | 26.031 | 276  | 276870   | 3.386 | ng    | 98       |
| 37) Benzo(b)fluoranthene      | 22.984 | 252  | 292856   | 3.441 | ng    | # 90     |
| 38) Benzo(k)fluoranthene      | 23.031 | 252  | 292143   | 3.411 | ng    | # 89     |
| 39) Benzo(a)pyrene            | 23.578 | 252  | 231067   | 3.392 | ng    | # 84     |
| 40) Dibenzo(a,h)anthracene    | 26.051 | 278  | 217022   | 3.449 | ng    | 92       |
| 41) Benzo(g,h,i)perylene      | 26.750 | 276  | 235264   | 3.274 | ng    | 98       |

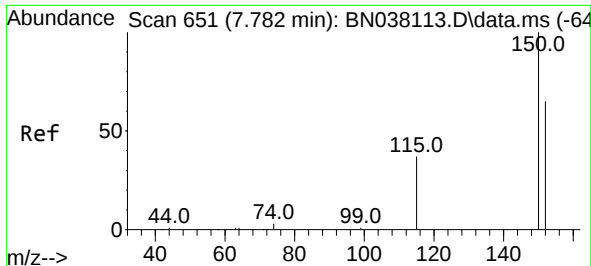
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Data File : BN038116.D  
Acq On : 28 Oct 2025 16:02  
Operator : RC/JU  
Sample : SSTDICC3.2  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

Quant Time: Oct 28 17:31:55 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN102825.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Oct 28 17:15:13 2025  
Response via : Initial Calibration

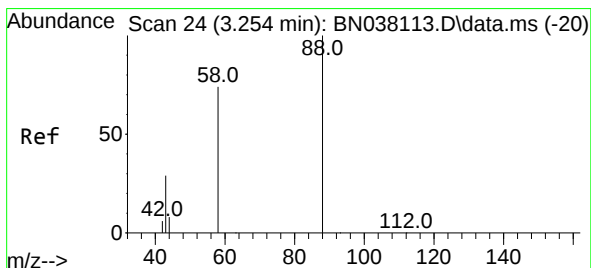
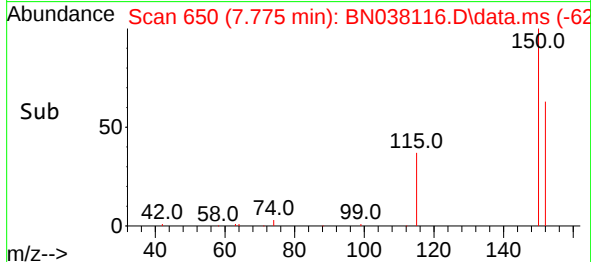
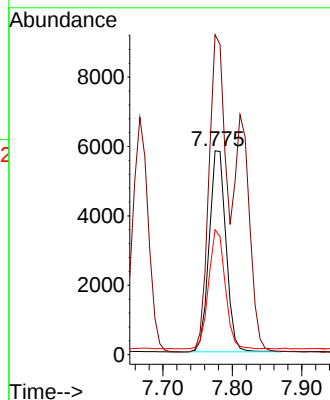
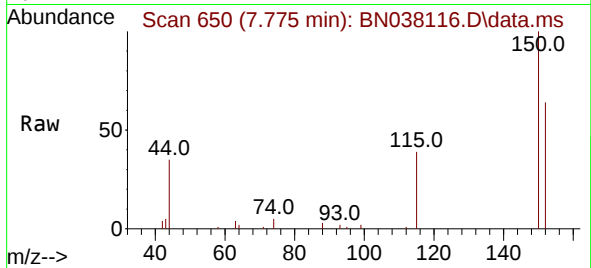




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 0.400 ng  
 RT: 7.775 min Scan# 61  
 Delta R.T. -0.000 min  
 Lab File: BN038116.D  
 Acq: 28 Oct 2025 16:02

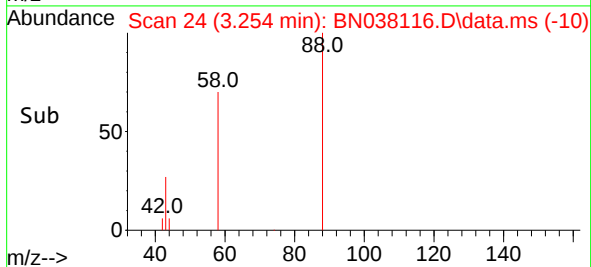
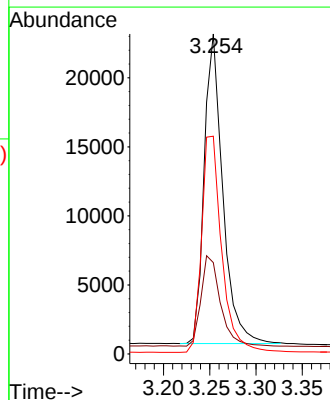
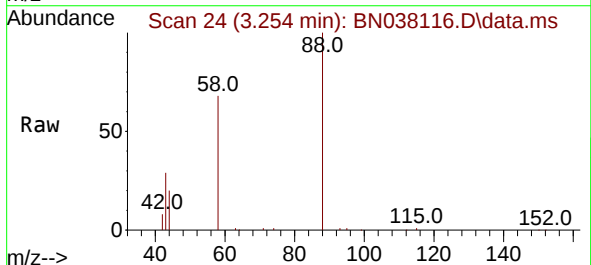
Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC3.2

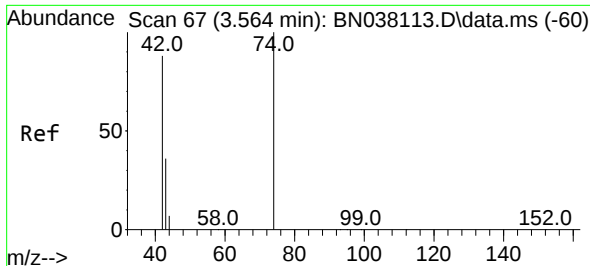
Tgt Ion:152 Resp: 9743  
 Ion Ratio Lower Upper  
 152 100  
 150 157.0 122.3 183.5  
 115 61.3 47.4 71.0



#2  
 1,4-Dioxane  
 Concen: 3.100 ng  
 RT: 3.254 min Scan# 24  
 Delta R.T. 0.000 min  
 Lab File: BN038116.D  
 Acq: 28 Oct 2025 16:02

Tgt Ion: 88 Resp: 31207  
 Ion Ratio Lower Upper  
 88 100  
 43 30.6 24.3 36.5  
 58 76.1 60.4 90.6

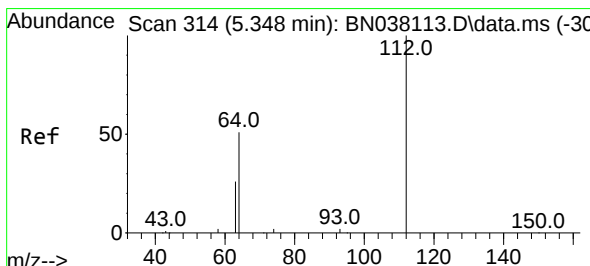
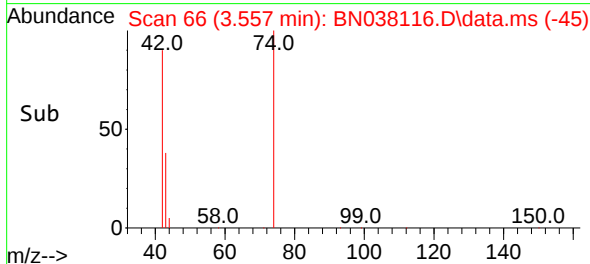
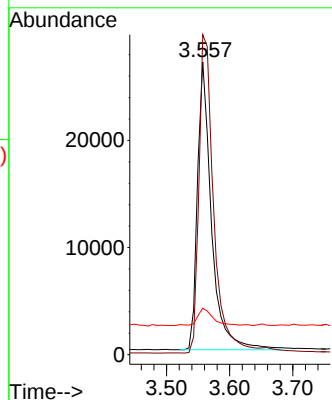
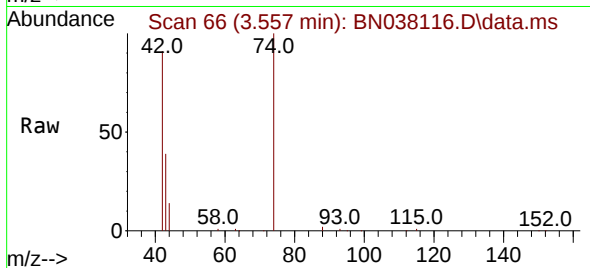




#3  
n-Nitrosodimethylamine  
Concen: 3.211 ng  
RT: 3.557 min Scan# 60  
Delta R.T. 0.000 min  
Lab File: BN038116.D  
Acq: 28 Oct 2025 16:02

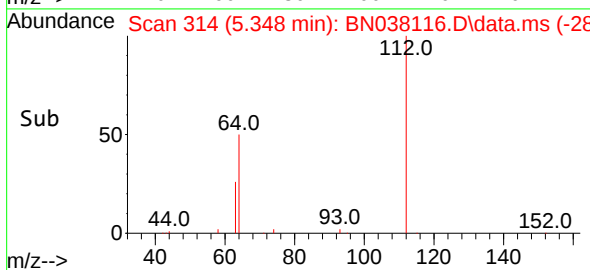
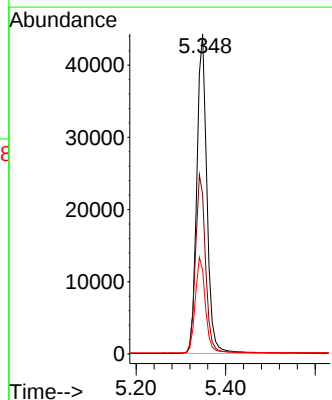
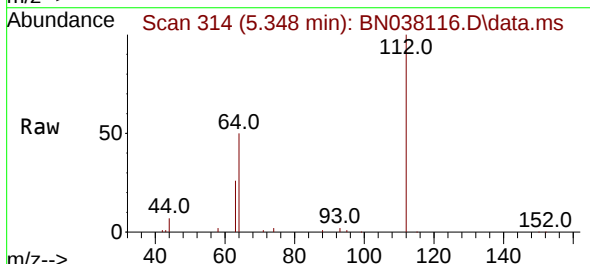
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

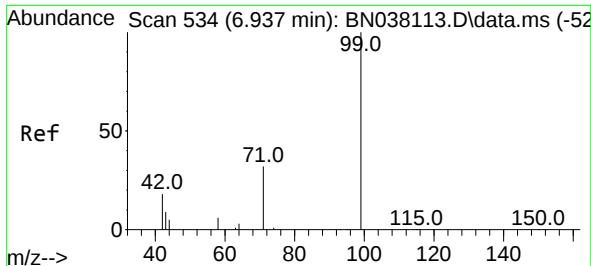
Tgt Ion: 42 Resp: 41593  
Ion Ratio Lower Upper  
42 100  
74 116.1 96.8 145.2  
44 6.8 5.3 7.9



#4  
2-Fluorophenol  
Concen: 3.040 ng  
RT: 5.348 min Scan# 314  
Delta R.T. 0.000 min  
Lab File: BN038116.D  
Acq: 28 Oct 2025 16:02

Tgt Ion: 112 Resp: 69778  
Ion Ratio Lower Upper  
112 100  
64 56.1 45.4 68.0  
63 30.0 23.2 34.8

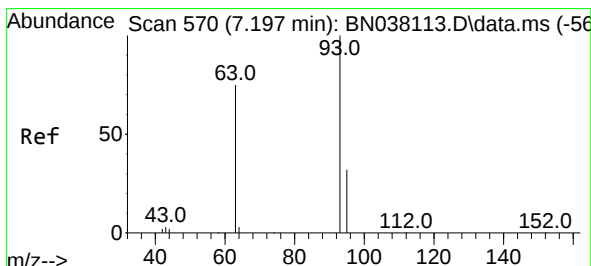
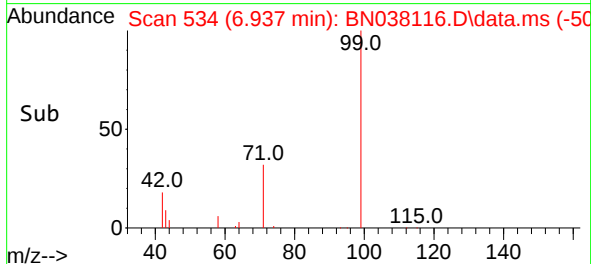
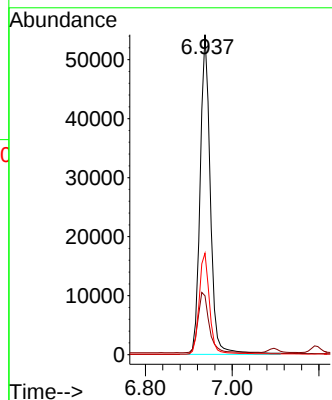
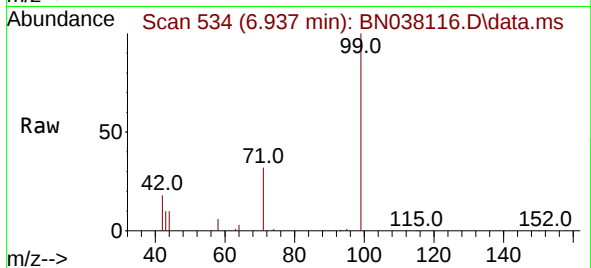




#5  
Phenol-d6  
Concen: 3.171 ng  
RT: 6.937 min Scan# 51  
Delta R.T. 0.000 min  
Lab File: BN038116.D  
Acq: 28 Oct 2025 16:02

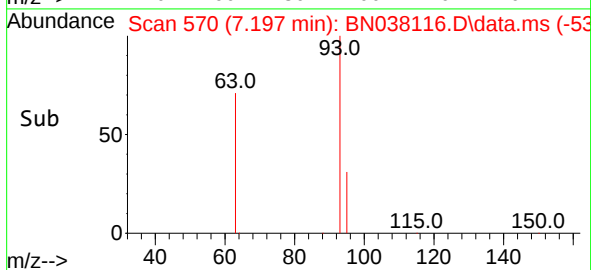
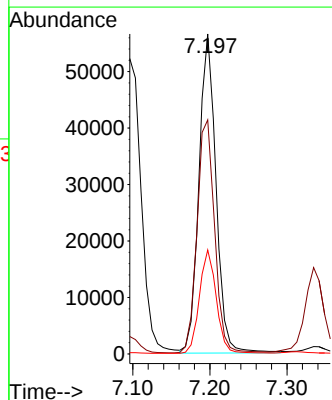
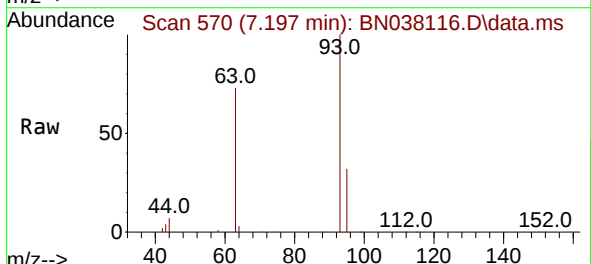
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SSTDICC3.2

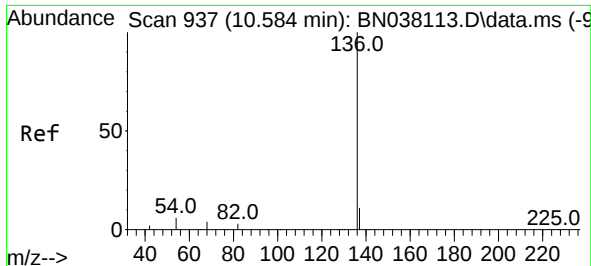
Tgt Ion: 99 Resp: 88646  
Ion Ratio Lower Upper  
99 100  
42 20.7 16.6 24.8  
71 32.4 25.4 38.2



#6  
bis(2-Chloroethyl)ether  
Concen: 3.164 ng  
RT: 7.197 min Scan# 570  
Delta R.T. 0.000 min  
Lab File: BN038116.D  
Acq: 28 Oct 2025 16:02

Tgt Ion: 93 Resp: 86904  
Ion Ratio Lower Upper  
93 100  
63 75.1 59.3 88.9  
95 32.0 25.2 37.8

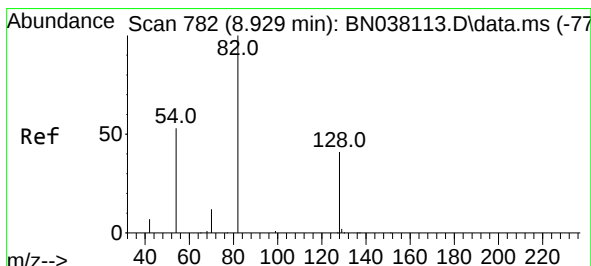
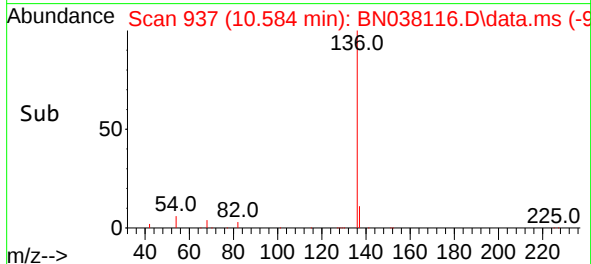
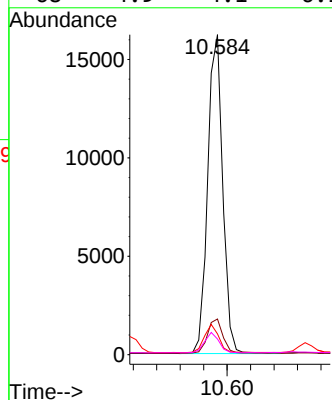
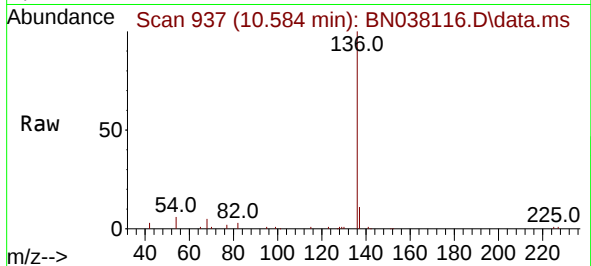




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.584 min Scan# 91  
Delta R.T. 0.011 min  
Lab File: BN038116.D  
Acq: 28 Oct 2025 16:02

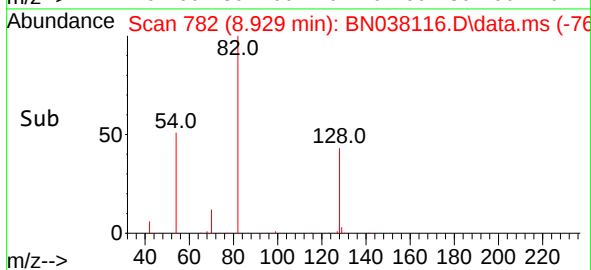
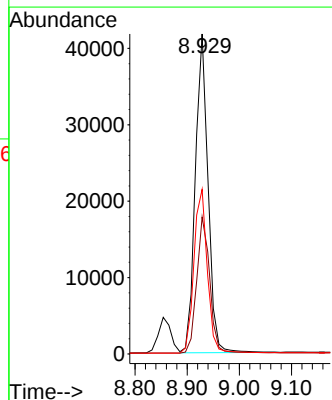
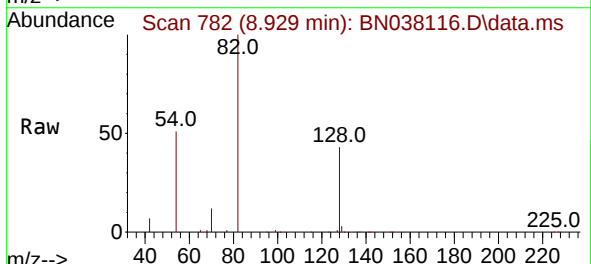
Instrument :  
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ClientSampleId :  
SSTDICC3.2

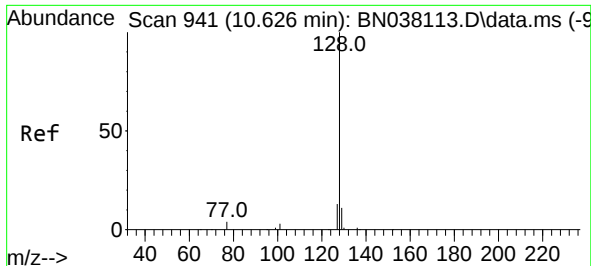
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 28864 |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 11.2  | 9.0   | 13.4  |
| 54       | 6.5   | 5.2   | 7.8   |
| 68       | 4.9   | 4.1   | 6.1   |



#8  
Nitrobenzene-d5  
Concen: 3.041 ng  
RT: 8.929 min Scan# 782  
Delta R.T. 0.000 min  
Lab File: BN038116.D  
Acq: 28 Oct 2025 16:02

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 70830 |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 42.8  | 34.1  | 51.1  |
| 54       | 51.5  | 43.5  | 65.3  |

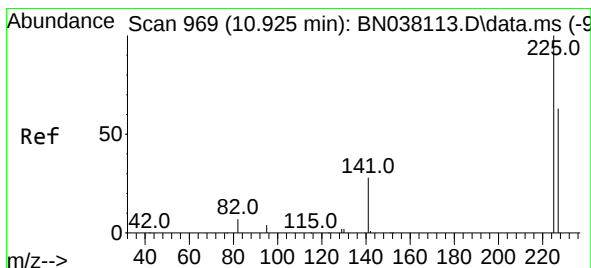
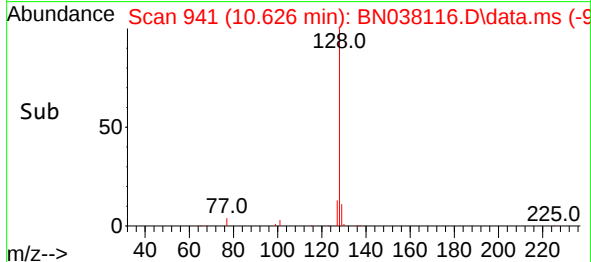
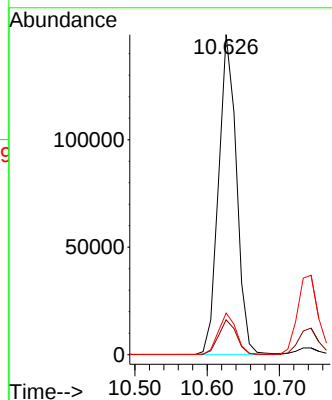
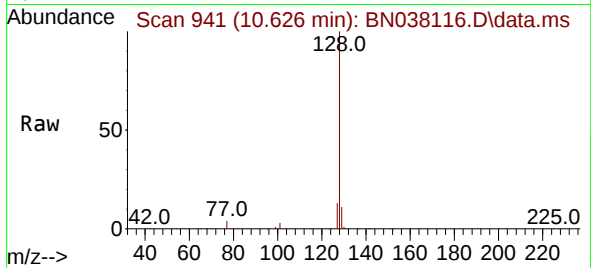




#9  
Naphthalene  
Concen: 3.215 ng  
RT: 10.626 min Scan# 941  
Delta R.T. 0.000 min  
Lab File: BN038116.D  
Acq: 28 Oct 2025 16:02

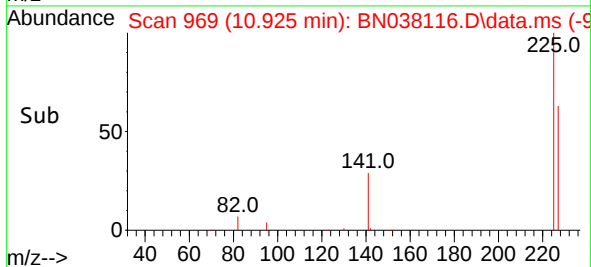
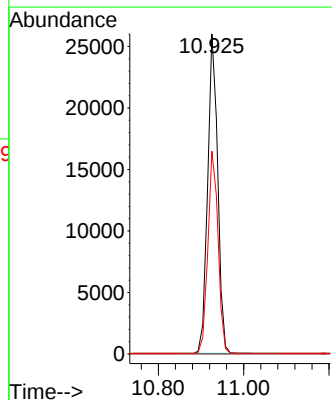
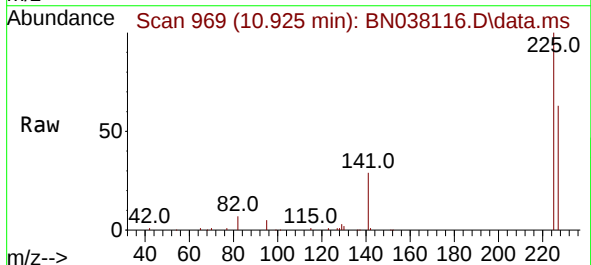
Instrument :  
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ClientSampleId :  
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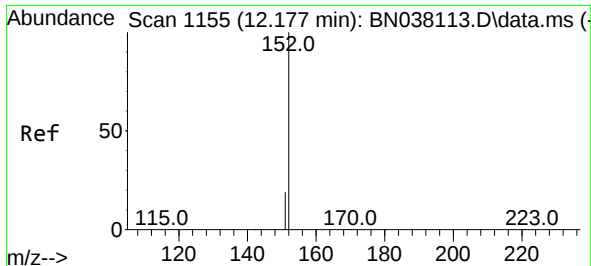
Tgt Ion:128 Resp: 255606  
Ion Ratio Lower Upper  
128 100  
129 10.9 9.1 13.7  
127 13.0 10.5 15.7



#10  
Hexachlorobutadiene  
Concen: 3.155 ng  
RT: 10.925 min Scan# 969  
Delta R.T. 0.000 min  
Lab File: BN038116.D  
Acq: 28 Oct 2025 16:02

Tgt Ion:225 Resp: 42325  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 64.0 50.3 75.5

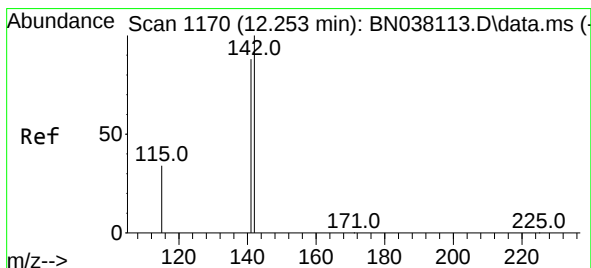
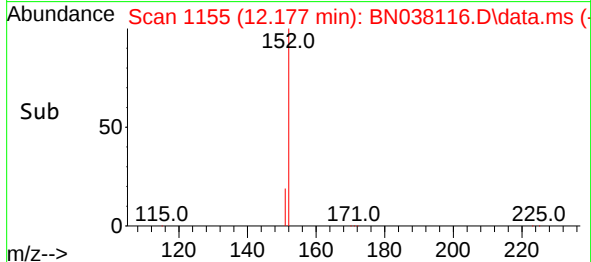
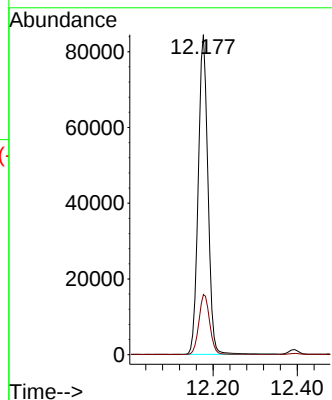
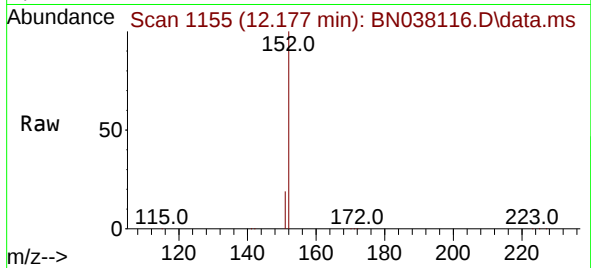




#11  
2-Methylnaphthalene-d10  
Concen: 3.270 ng  
RT: 12.177 min Scan# 1155  
Delta R.T. 0.000 min  
Lab File: BN038116.D  
Acq: 28 Oct 2025 16:02

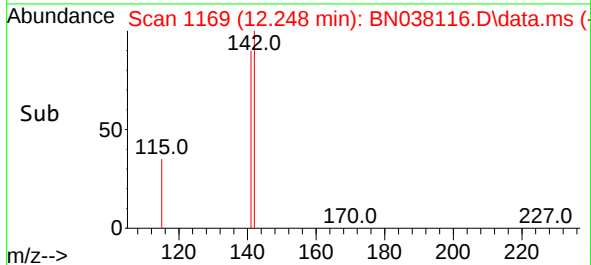
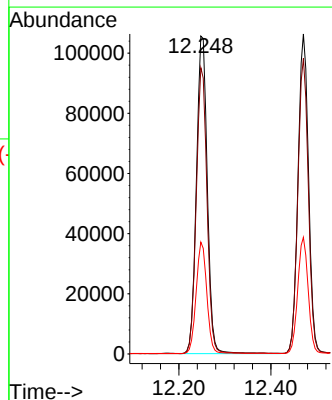
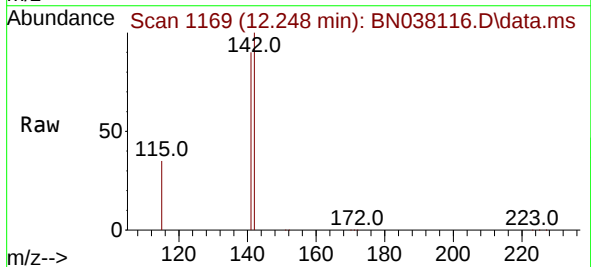
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

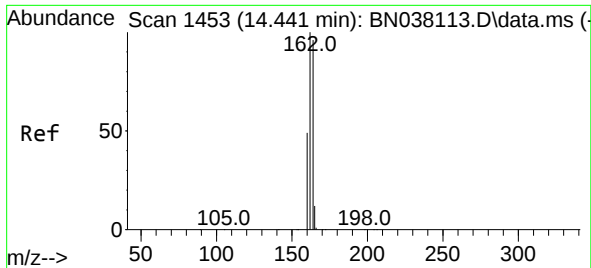
Tgt Ion:152 Resp: 134773  
Ion Ratio Lower Upper  
152 100  
151 20.9 16.8 25.2



#12  
2-Methylnaphthalene  
Concen: 3.263 ng  
RT: 12.248 min Scan# 1169  
Delta R.T. 0.000 min  
Lab File: BN038116.D  
Acq: 28 Oct 2025 16:02

Tgt Ion:142 Resp: 172992  
Ion Ratio Lower Upper  
142 100  
141 90.0 70.3 105.5  
115 35.2 27.8 41.6

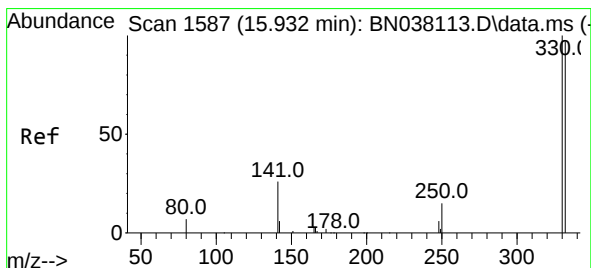
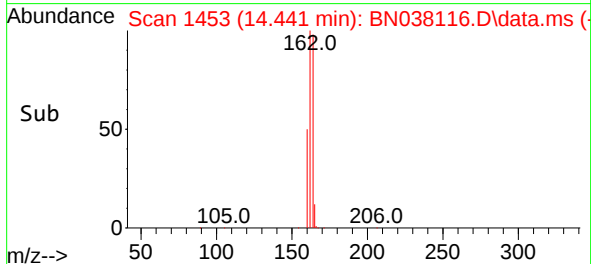
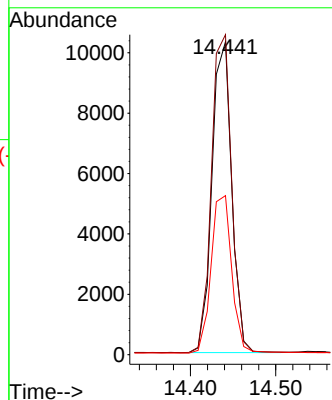
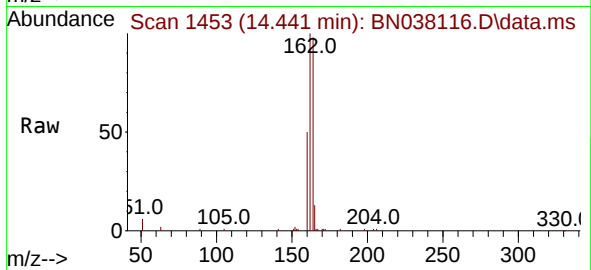




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.441 min Scan# 1453  
Delta R.T. 0.011 min  
Lab File: BN038116.D  
Acq: 28 Oct 2025 16:02

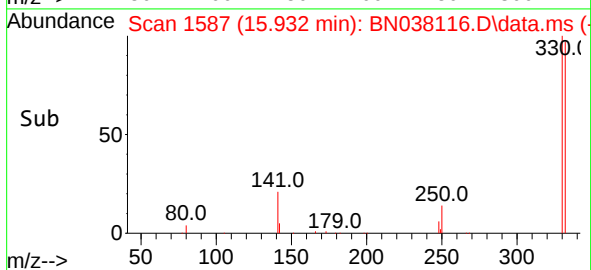
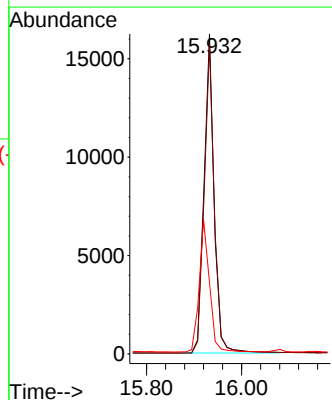
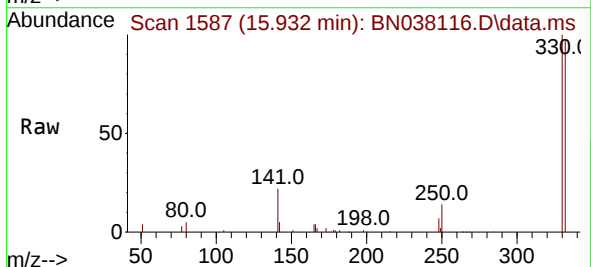
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

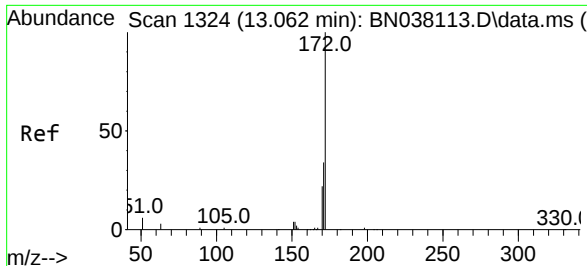
Tgt Ion:164 Resp: 16547  
Ion Ratio Lower Upper  
164 100  
162 102.2 83.0 124.4  
160 50.8 40.7 61.1



#14  
2,4,6-Tribromophenol  
Concen: 3.527 ng  
RT: 15.932 min Scan# 1587  
Delta R.T. 0.000 min  
Lab File: BN038116.D  
Acq: 28 Oct 2025 16:02

Tgt Ion:330 Resp: 24045  
Ion Ratio Lower Upper  
330 100  
332 97.1 76.6 114.8  
141 42.2 34.1 51.1

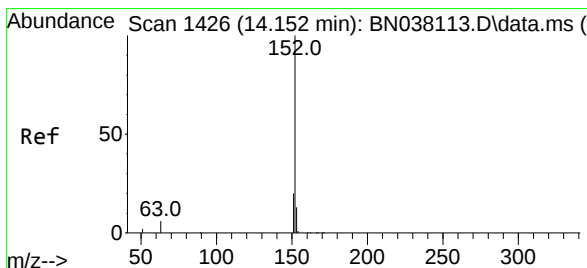
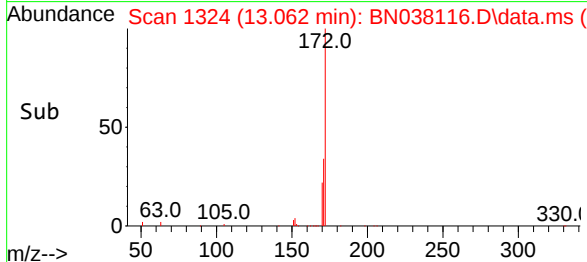
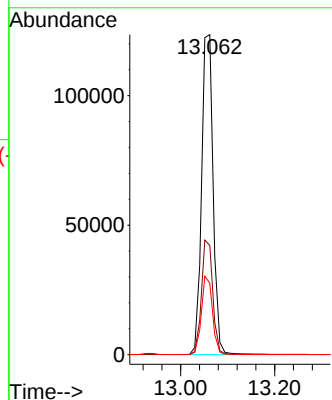
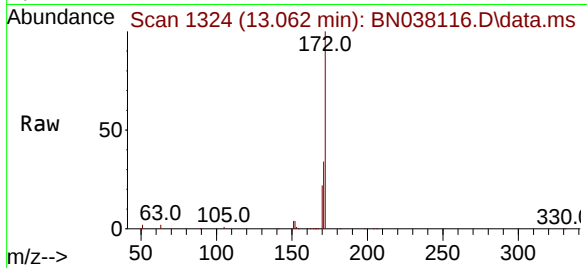




#15  
2-Fluorobiphenyl  
Concen: 3.024 ng  
RT: 13.062 min Scan# 1324  
Delta R.T. 0.011 min  
Lab File: BN038116.D  
Acq: 28 Oct 2025 16:02

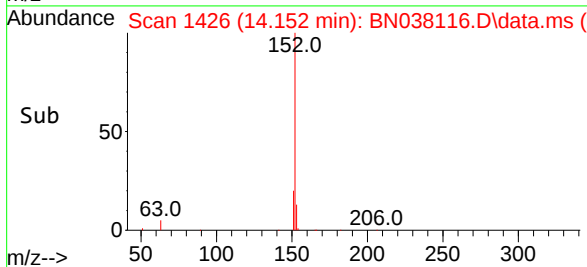
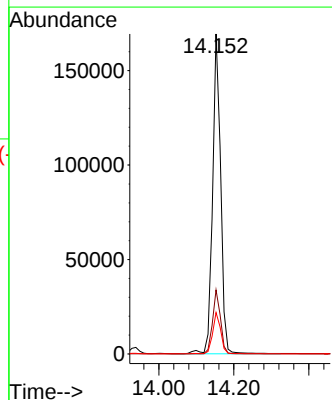
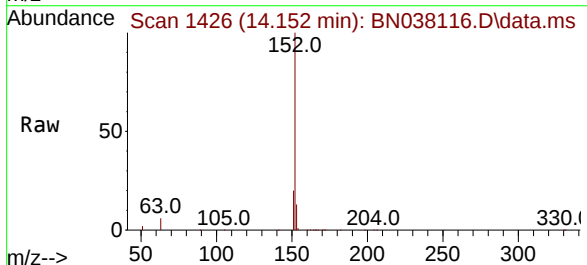
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

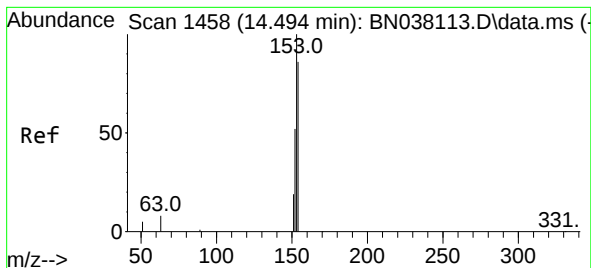
Tgt Ion:172 Resp: 200437  
Ion Ratio Lower Upper  
172 100  
171 34.2 27.8 41.6  
170 22.3 18.1 27.1



#16  
Acenaphthylene  
Concen: 3.378 ng  
RT: 14.152 min Scan# 1426  
Delta R.T. 0.000 min  
Lab File: BN038116.D  
Acq: 28 Oct 2025 16:02

Tgt Ion:152 Resp: 253121  
Ion Ratio Lower Upper  
152 100  
151 19.5 15.8 23.8  
153 12.9 10.2 15.2





#17

Acenaphthene

Concen: 3.308 ng

RT: 14.495 min Scan# 1458

Delta R.T. 0.000 min

Lab File: BN038116.D

Acq: 28 Oct 2025 16:02

Instrument :

BNA\_N

ClientSampleId :

SSTDICC3.2

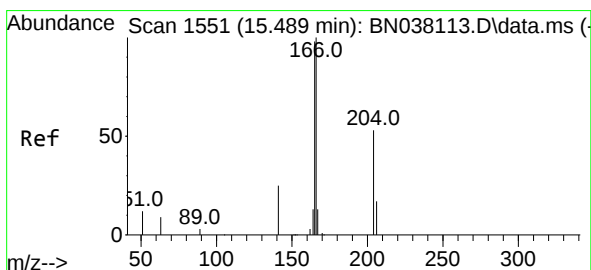
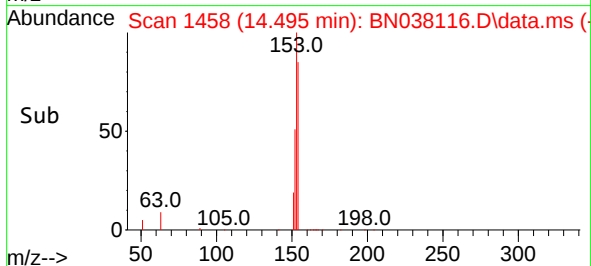
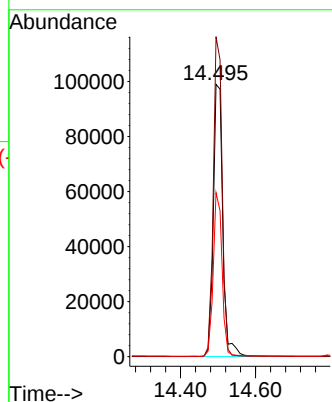
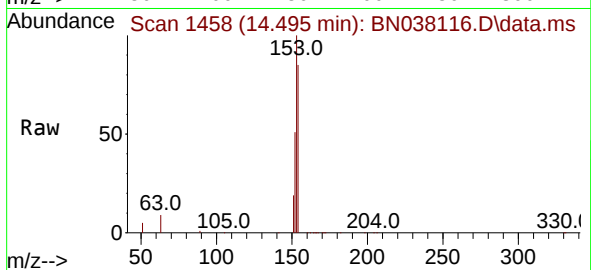
Tgt Ion:154 Resp: 173433

Ion Ratio Lower Upper

154 100

153 109.4 90.0 135.0

152 56.0 47.3 70.9



#18

Fluorene

Concen: 3.348 ng

RT: 15.489 min Scan# 1551

Delta R.T. -0.000 min

Lab File: BN038116.D

Acq: 28 Oct 2025 16:02

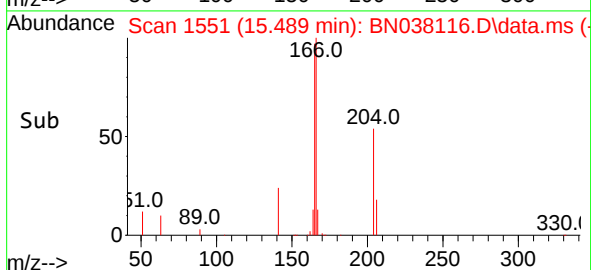
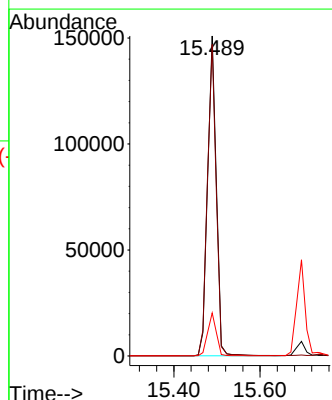
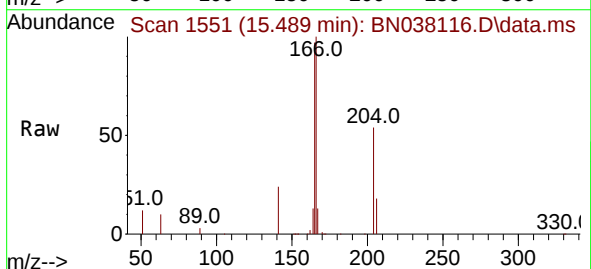
Tgt Ion:166 Resp: 230067

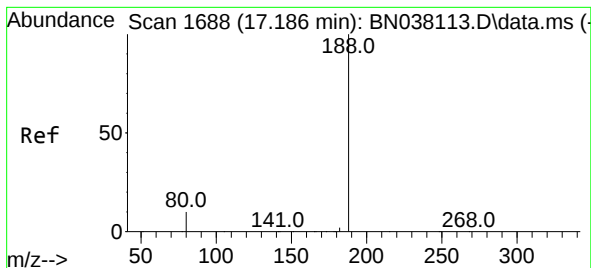
Ion Ratio Lower Upper

166 100

165 99.1 79.0 118.4

167 13.4 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.186 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN038116.D

Acq: 28 Oct 2025 16:02

Instrument :

BNA\_N

ClientSampleId :

SSTDICC3.2

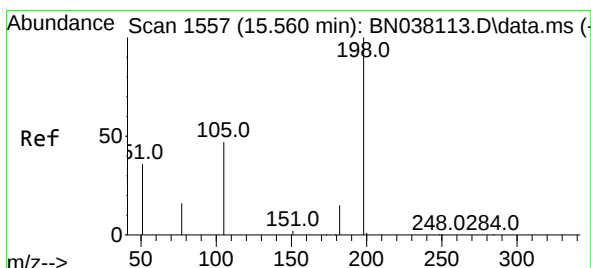
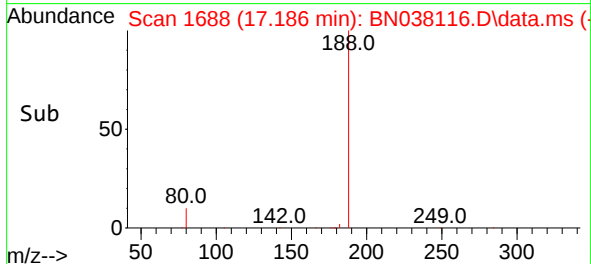
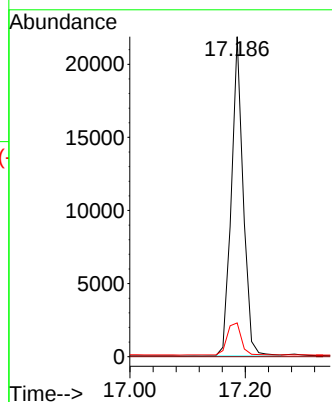
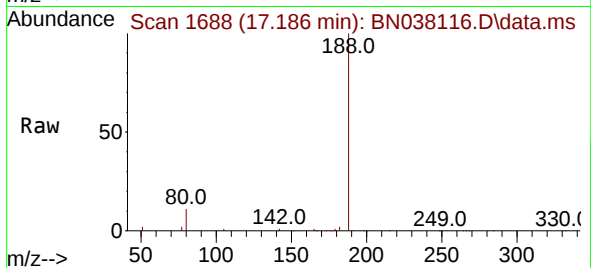
Tgt Ion:188 Resp: 31206

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.6 8.6 13.0



#20

4,6-Dinitro-2-methylphenol

Concen: 3.363 ng

RT: 15.560 min Scan# 1557

Delta R.T. -0.000 min

Lab File: BN038116.D

Acq: 28 Oct 2025 16:02

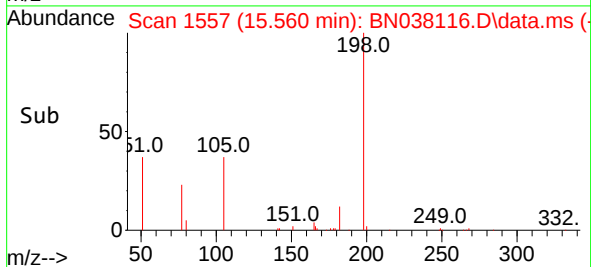
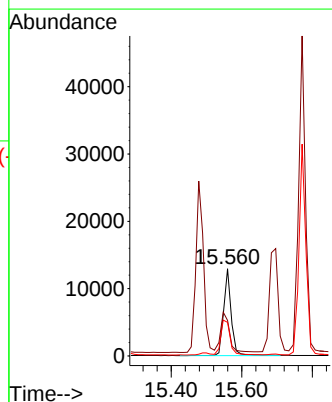
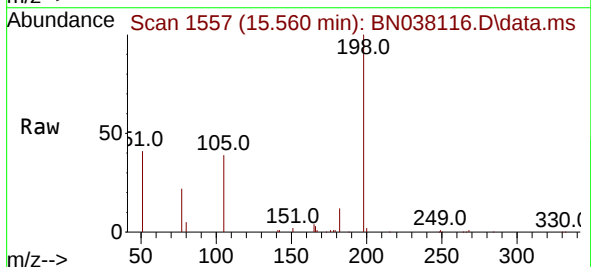
Tgt Ion:198 Resp: 18221

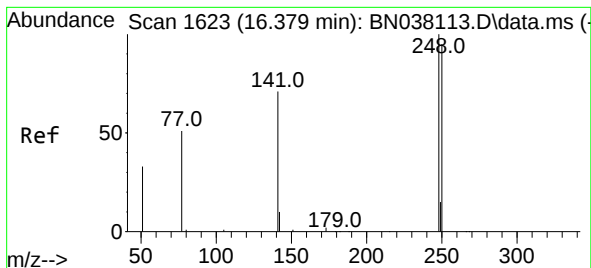
Ion Ratio Lower Upper

198 100

51 40.8 88.9 133.3#

105 38.5 49.2 73.8#

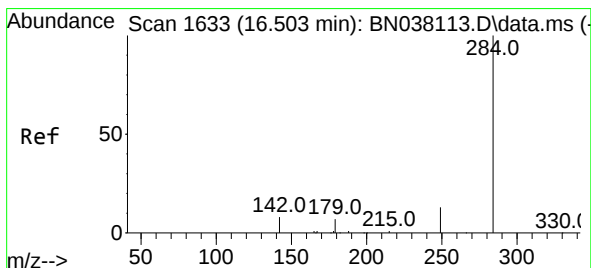
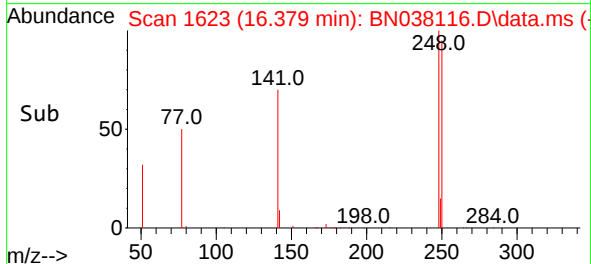
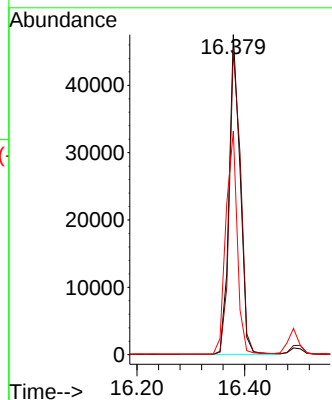
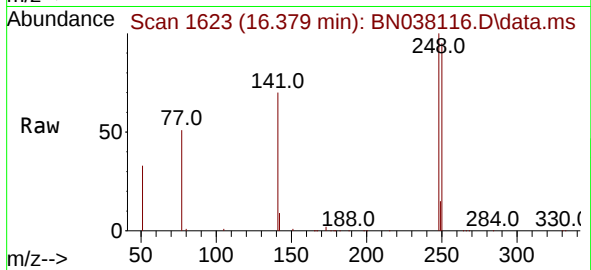




#21  
4-Bromophenyl-phenylether  
Concen: 3.305 ng  
RT: 16.379 min Scan# 1623  
Delta R.T. 0.000 min  
Lab File: BN038116.D  
Acq: 28 Oct 2025 16:02

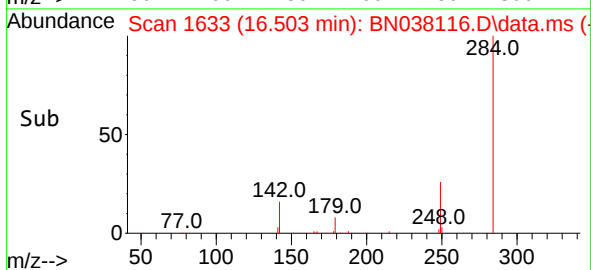
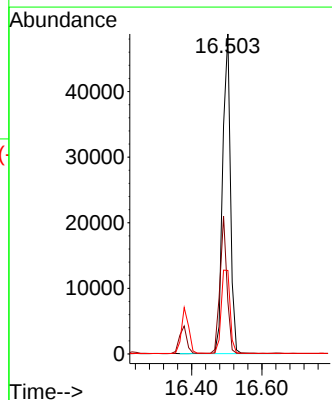
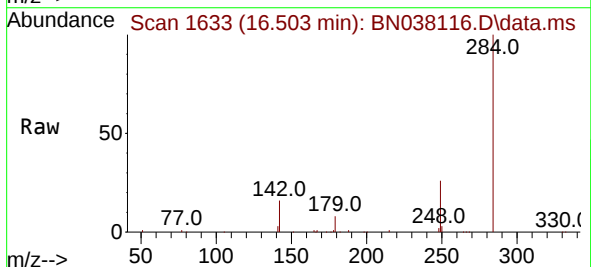
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

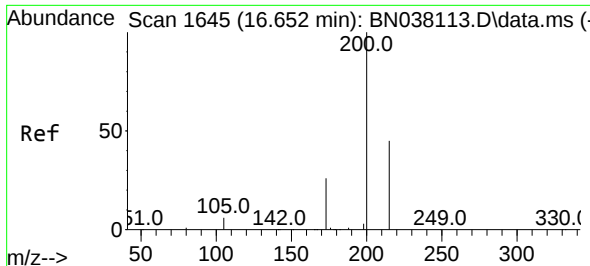
Tgt Ion:248 Resp: 67616  
Ion Ratio Lower Upper  
248 100  
250 95.3 76.2 114.2  
141 69.9 57.6 86.4



#22  
Hexachlorobenzene  
Concen: 3.185 ng  
RT: 16.503 min Scan# 1633  
Delta R.T. 0.000 min  
Lab File: BN038116.D  
Acq: 28 Oct 2025 16:02

Tgt Ion:284 Resp: 74101  
Ion Ratio Lower Upper  
284 100  
142 38.7 30.5 45.7  
249 29.9 23.5 35.3

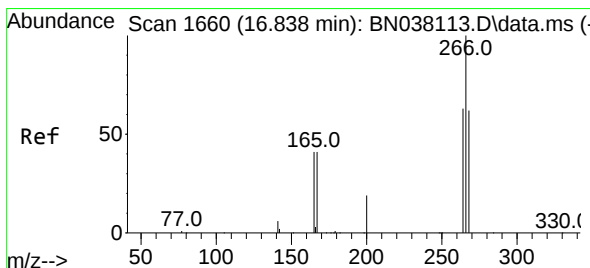
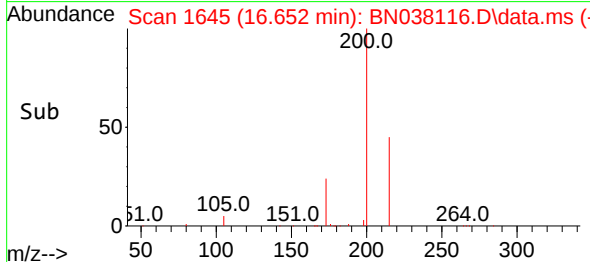
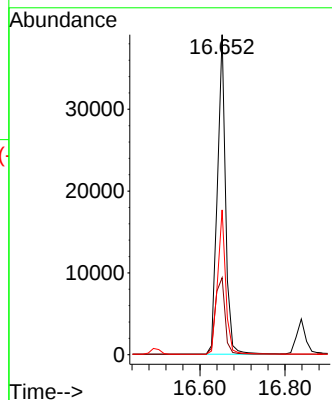
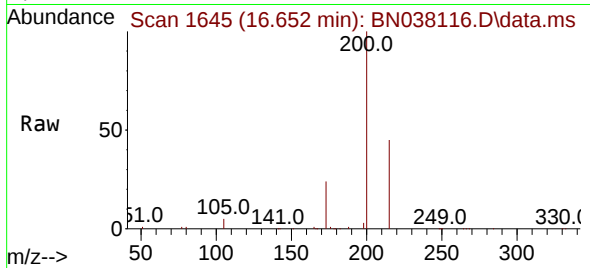




#23  
 Atrazine  
 Concen: 3.482 ng  
 RT: 16.652 min Scan# 1645  
 Delta R.T. 0.000 min  
 Lab File: BN038116.D  
 Acq: 28 Oct 2025 16:02

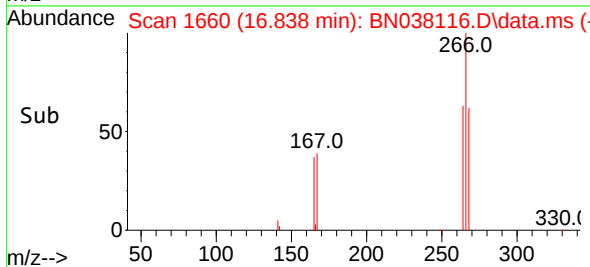
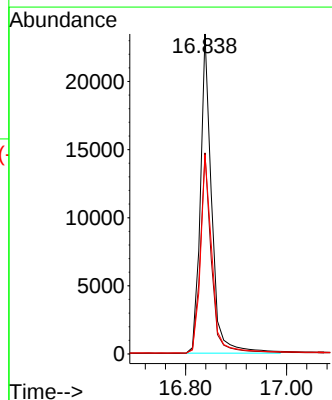
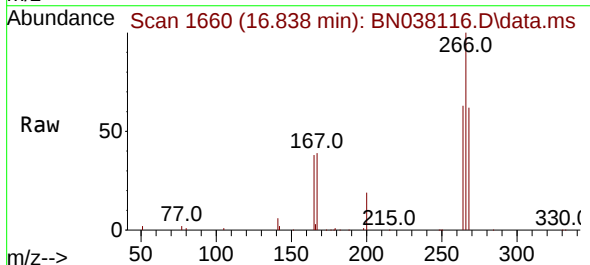
Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC3.2

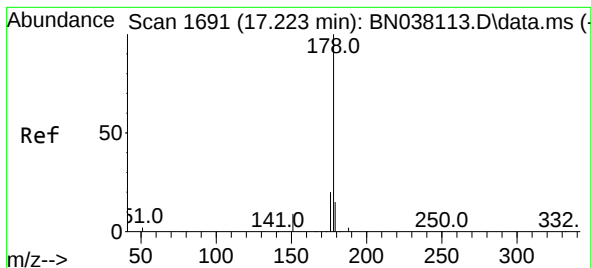
Tgt Ion:200 Resp: 52181  
 Ion Ratio Lower Upper  
 200 100  
 173 24.0 21.4 32.2  
 215 45.3 36.7 55.1



#24  
 Pentachlorophenol  
 Concen: 3.634 ng  
 RT: 16.838 min Scan# 1660  
 Delta R.T. 0.000 min  
 Lab File: BN038116.D  
 Acq: 28 Oct 2025 16:02

Tgt Ion:266 Resp: 36424  
 Ion Ratio Lower Upper  
 266 100  
 264 62.5 49.3 73.9  
 268 63.4 50.6 75.8





#25

Phenanthrene

Concen: 3.257 ng

RT: 17.223 min Scan# 1691

Delta R.T. 0.000 min

Lab File: BN038116.D

Acq: 28 Oct 2025 16:02

Instrument :

BNA\_N

ClientSampleId :

SSTDICC3.2

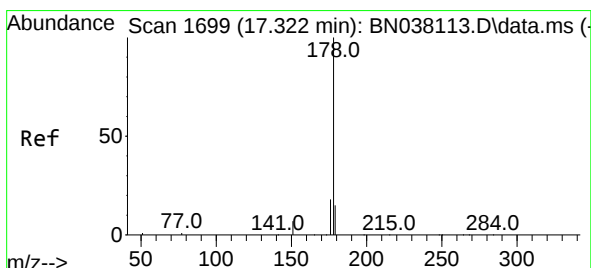
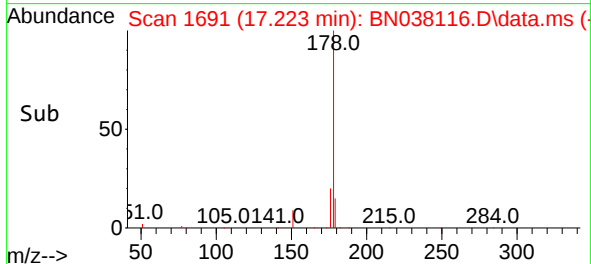
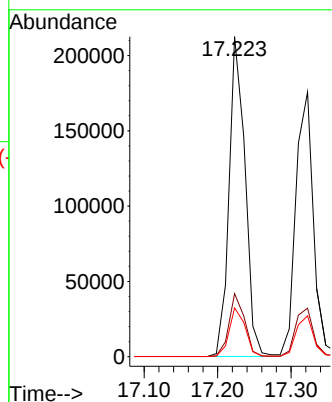
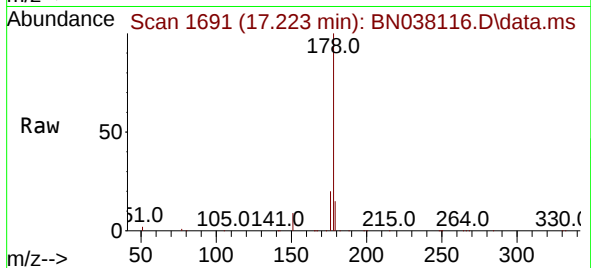
Tgt Ion:178 Resp: 322719

Ion Ratio Lower Upper

178 100

176 19.2 15.5 23.3

179 15.3 12.2 18.4



#26

Anthracene

Concen: 3.408 ng

RT: 17.322 min Scan# 1699

Delta R.T. 0.000 min

Lab File: BN038116.D

Acq: 28 Oct 2025 16:02

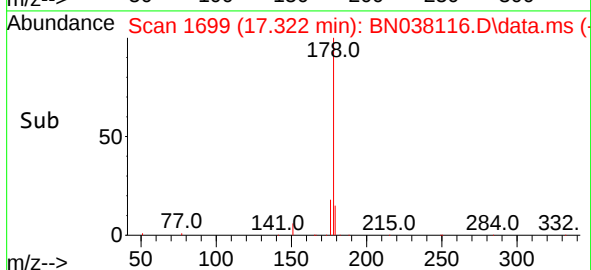
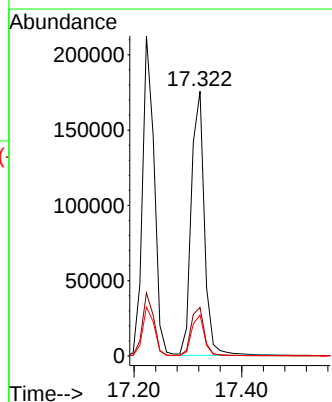
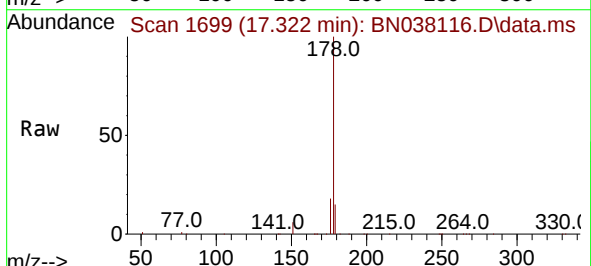
Tgt Ion:178 Resp: 295333

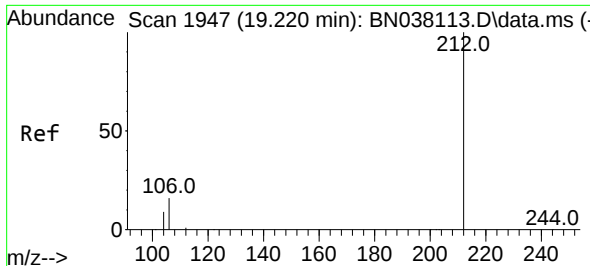
Ion Ratio Lower Upper

178 100

176 18.8 14.9 22.3

179 15.2 11.8 17.8

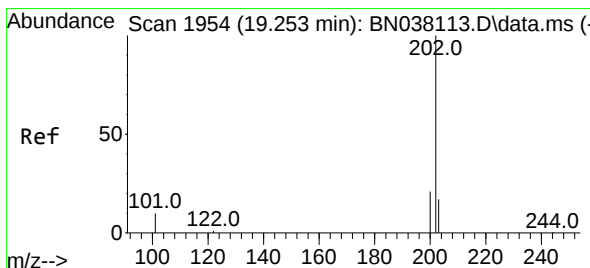
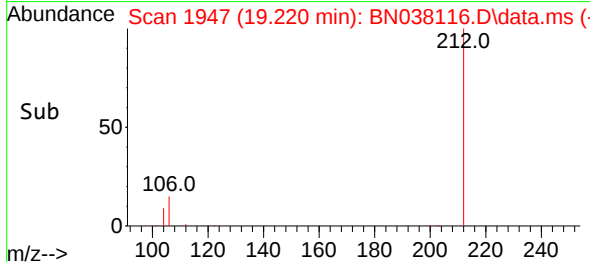
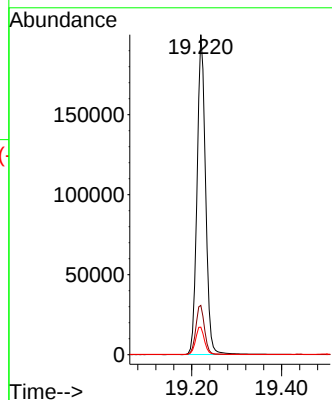
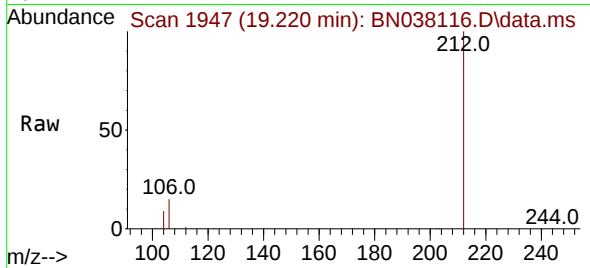




#27  
Fluoranthene-d10  
Concen: 3.348 ng  
RT: 19.220 min Scan# 1947  
Delta R.T. 0.000 min  
Lab File: BN038116.D  
Acq: 28 Oct 2025 16:02

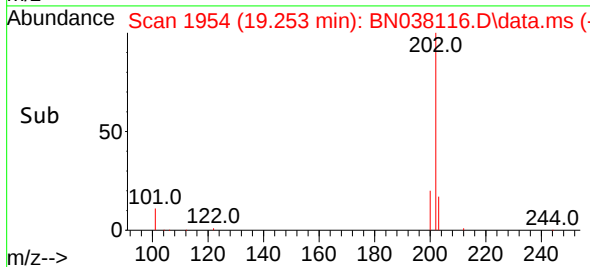
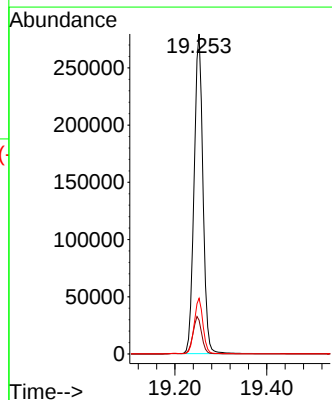
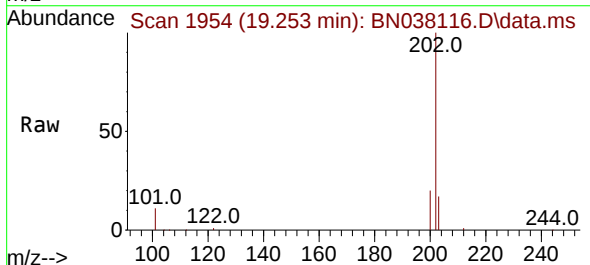
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

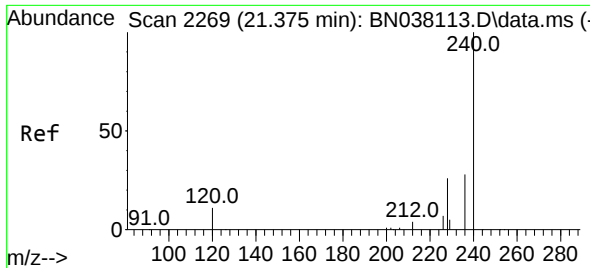
Tgt Ion:212 Resp: 263418  
Ion Ratio Lower Upper  
212 100  
106 15.8 12.6 19.0  
104 8.9 7.1 10.7



#28  
Fluoranthene  
Concen: 3.363 ng  
RT: 19.253 min Scan# 1954  
Delta R.T. 0.000 min  
Lab File: BN038116.D  
Acq: 28 Oct 2025 16:02

Tgt Ion:202 Resp: 372238  
Ion Ratio Lower Upper  
202 100  
101 11.8 9.4 14.2  
203 17.2 13.4 20.2

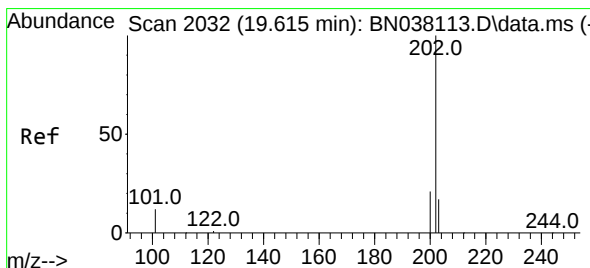
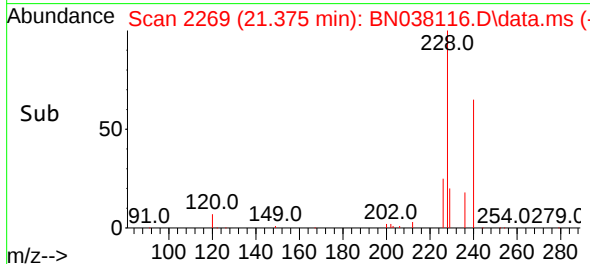
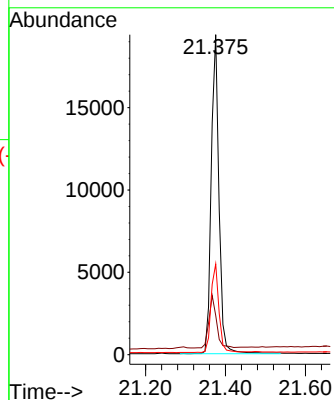
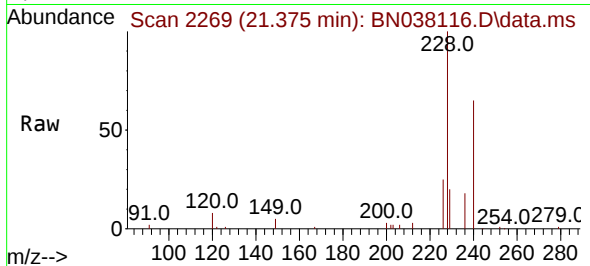




#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.375 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: BN038116.D  
Acq: 28 Oct 2025 16:02

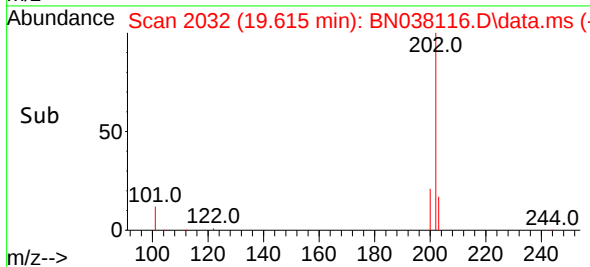
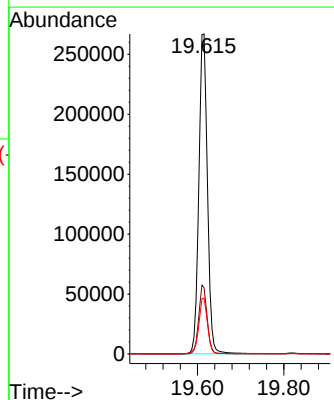
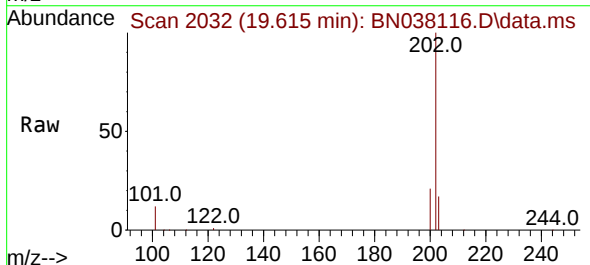
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

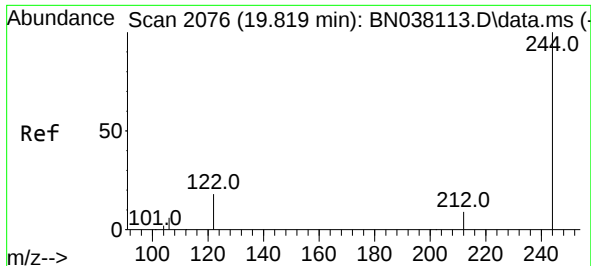
Tgt Ion:240 Resp: 26115  
Ion Ratio Lower Upper  
240 100  
120 12.3 10.7 16.1  
236 28.4 23.1 34.7



#30  
Pyrene  
Concen: 3.130 ng  
RT: 19.615 min Scan# 2032  
Delta R.T. 0.005 min  
Lab File: BN038116.D  
Acq: 28 Oct 2025 16:02

Tgt Ion:202 Resp: 368946  
Ion Ratio Lower Upper  
202 100  
200 21.1 16.7 25.1  
203 17.7 14.2 21.2

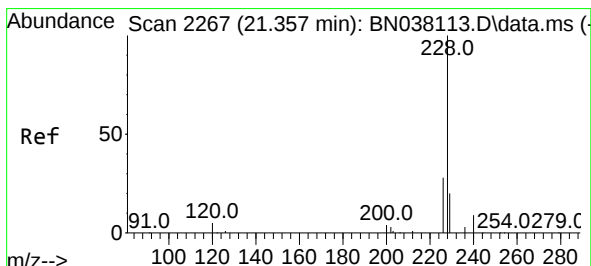
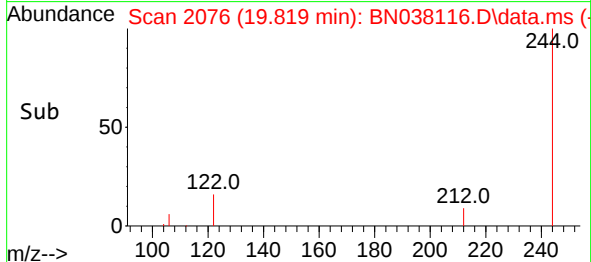
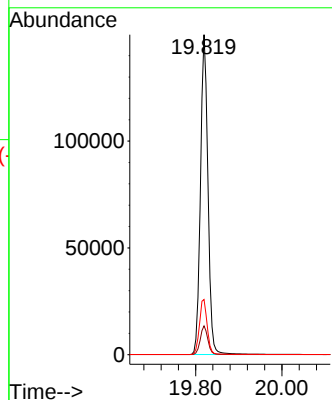
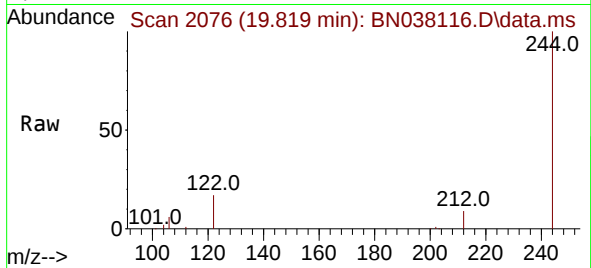




#31  
 Terphenyl-d14  
 Concen: 3.176 ng  
 RT: 19.819 min Scan# 2076  
 Delta R.T. 0.000 min  
 Lab File: BN038116.D  
 Acq: 28 Oct 2025 16:02

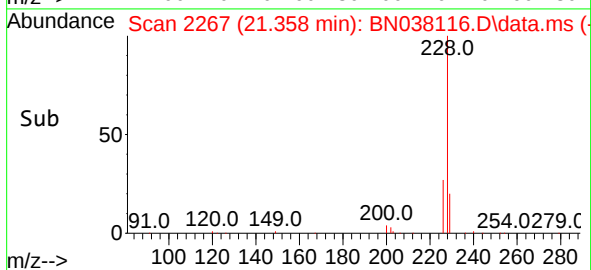
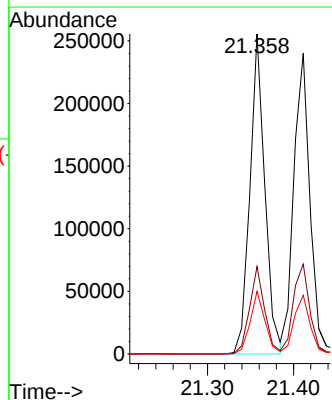
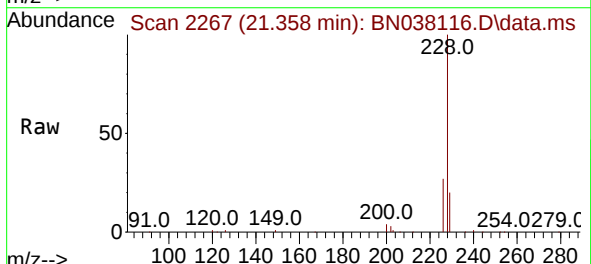
Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC3.2

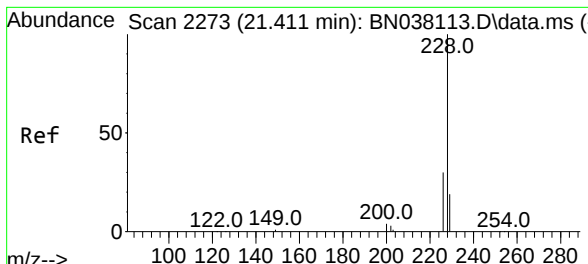
Tgt Ion:244 Resp: 180175  
 Ion Ratio Lower Upper  
 244 100  
 212 9.0 7.8 11.6  
 122 17.3 15.2 22.8



#32  
 Benzo(a)anthracene  
 Concen: 3.306 ng  
 RT: 21.358 min Scan# 2267  
 Delta R.T. 0.000 min  
 Lab File: BN038116.D  
 Acq: 28 Oct 2025 16:02

Tgt Ion:228 Resp: 308037  
 Ion Ratio Lower Upper  
 228 100  
 226 27.3 22.2 33.4  
 229 19.5 15.8 23.8

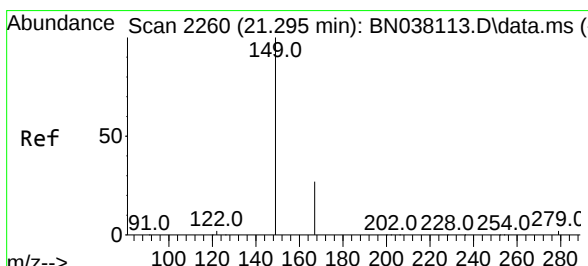
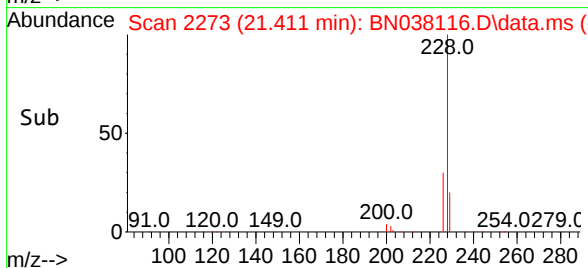
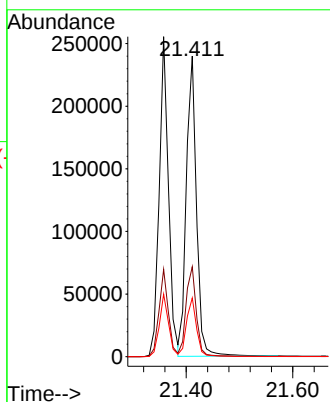
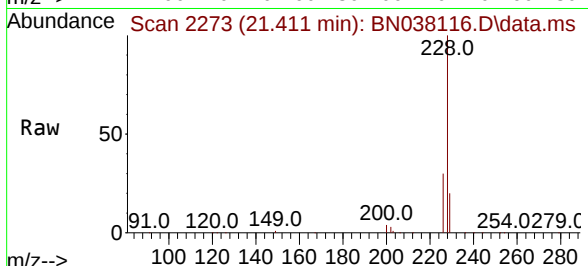




#33  
Chrysene  
Concen: 3.136 ng  
RT: 21.411 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: BN038116.D  
Acq: 28 Oct 2025 16:02

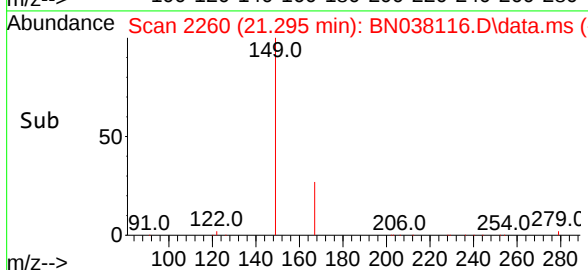
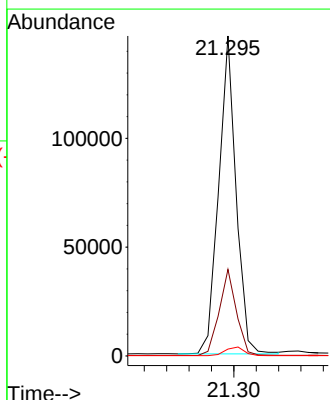
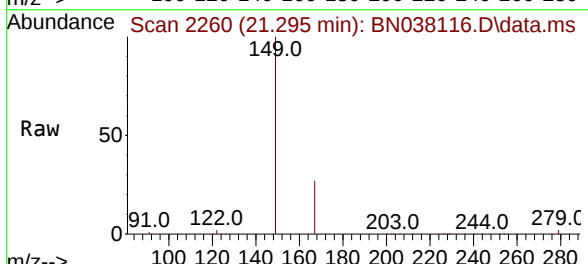
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

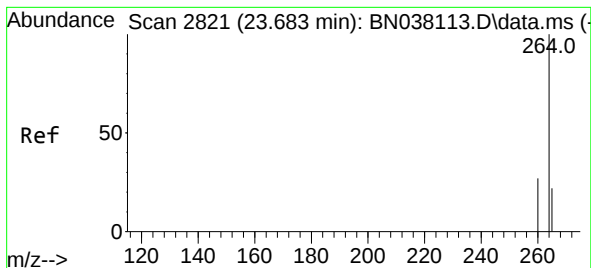
Tgt Ion:228 Resp: 317065  
Ion Ratio Lower Upper  
228 100  
226 29.9 24.3 36.5  
229 19.5 15.7 23.5



#34  
Bis(2-ethylhexyl)phthalate  
Concen: 3.209 ng  
RT: 21.295 min Scan# 2260  
Delta R.T. 0.000 min  
Lab File: BN038116.D  
Acq: 28 Oct 2025 16:02

Tgt Ion:149 Resp: 157480  
Ion Ratio Lower Upper  
149 100  
167 26.9 21.1 31.7  
279 3.0 2.9 4.3





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.683 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN038116.D

Acq: 28 Oct 2025 16:02

Instrument :

BNA\_N

ClientSampleId :

SSTDICC3.2

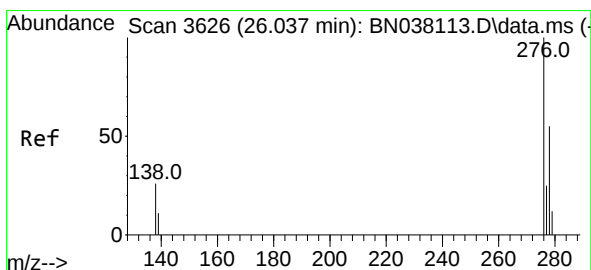
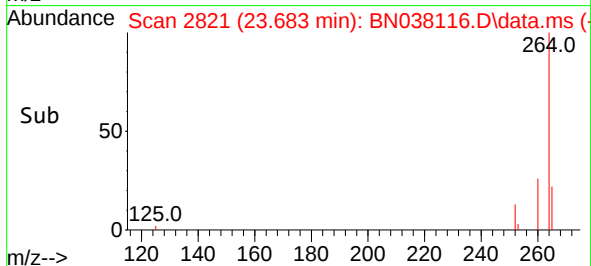
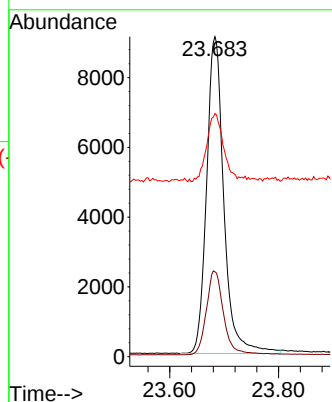
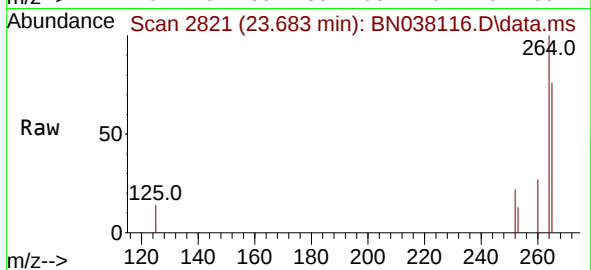
Tgt Ion:264 Resp: 19904

Ion Ratio Lower Upper

264 100

260 26.5 21.8 32.8

265 76.0 68.6 102.8



#36

Indeno(1,2,3-cd)pyrene

Concen: 3.386 ng

RT: 26.031 min Scan# 3624

Delta R.T. -0.003 min

Lab File: BN038116.D

Acq: 28 Oct 2025 16:02

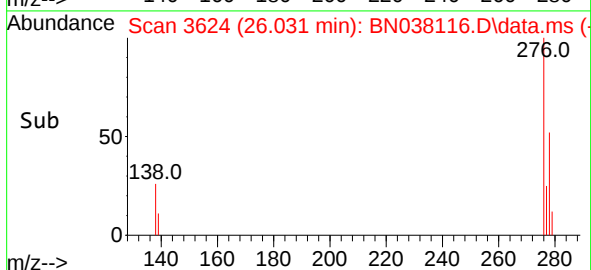
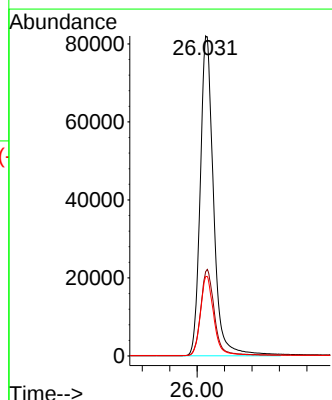
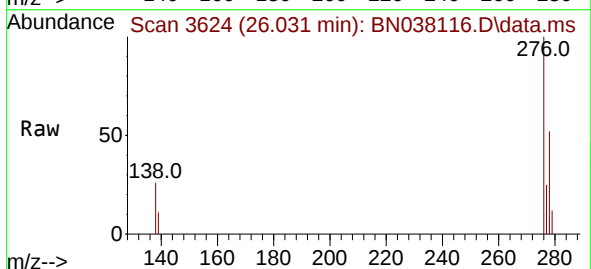
Tgt Ion:276 Resp: 276870

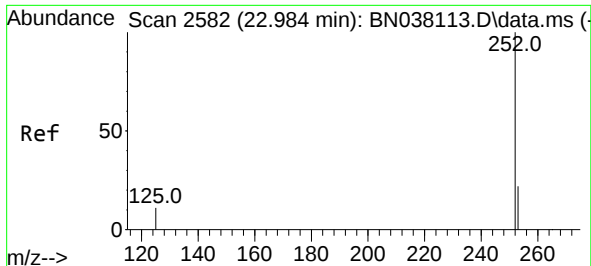
Ion Ratio Lower Upper

276 100

138 27.4 21.4 32.0

277 24.8 19.2 28.8

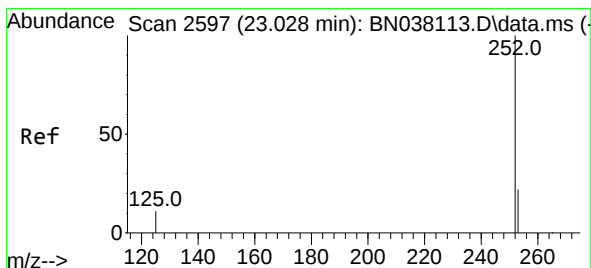
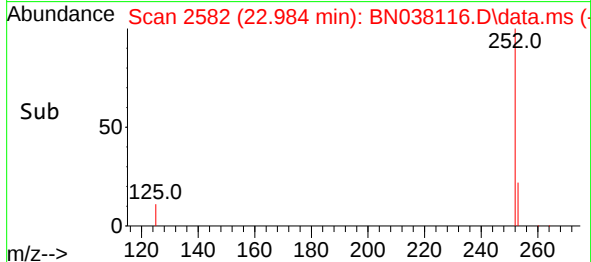
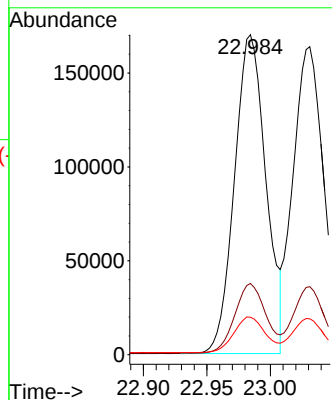
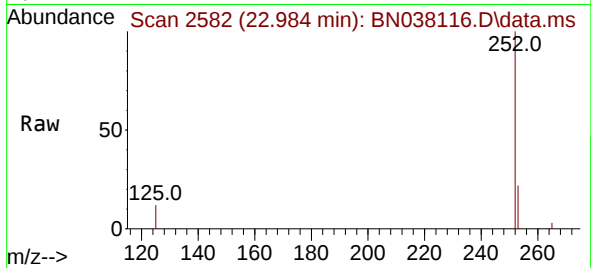




#37  
Benzo(b)fluoranthene  
Concen: 3.441 ng  
RT: 22.984 min Scan# 2582  
Delta R.T. 0.003 min  
Lab File: BN038116.D  
Acq: 28 Oct 2025 16:02

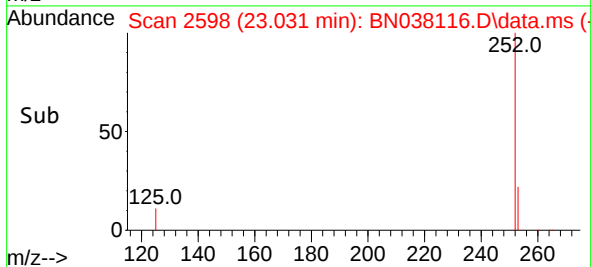
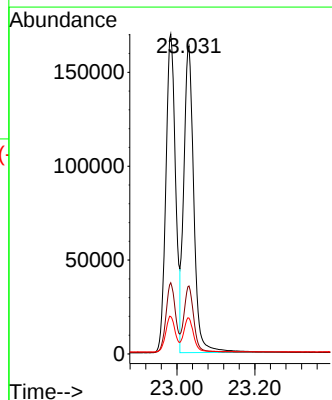
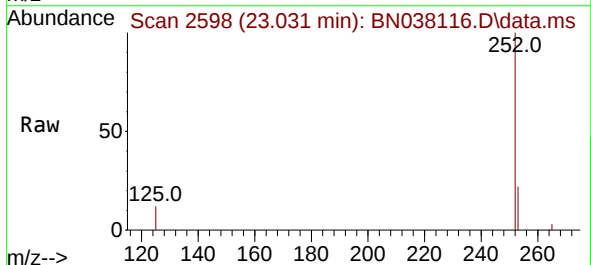
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

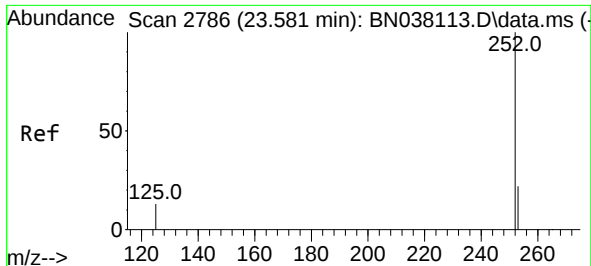
Tgt Ion:252 Resp: 292856  
Ion Ratio Lower Upper  
252 100  
253 22.3 20.9 31.3  
125 11.7 14.1 21.1#



#38  
Benzo(k)fluoranthene  
Concen: 3.411 ng  
RT: 23.031 min Scan# 2598  
Delta R.T. 0.003 min  
Lab File: BN038116.D  
Acq: 28 Oct 2025 16:02

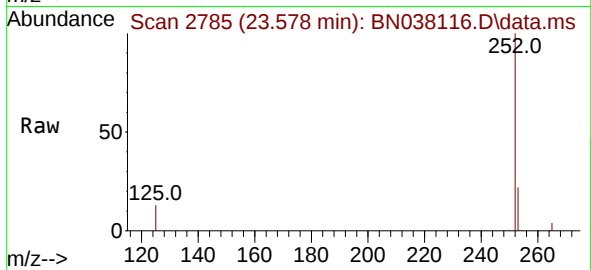
Tgt Ion:252 Resp: 292143  
Ion Ratio Lower Upper  
252 100  
253 22.1 21.2 31.8  
125 11.6 14.6 22.0#



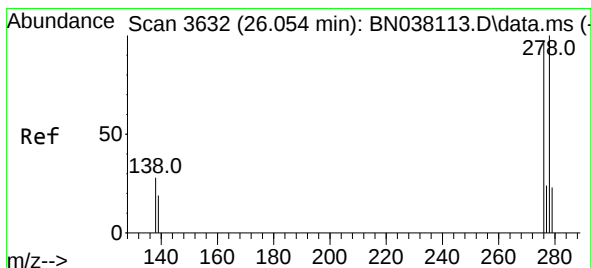
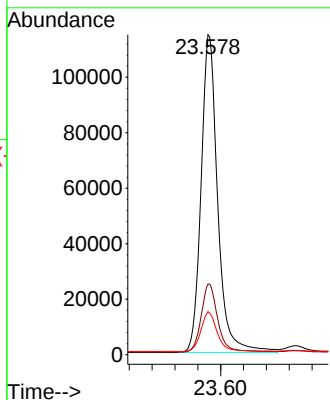
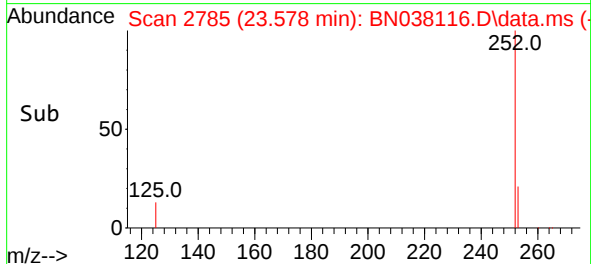


#39  
Benzo(a)pyrene  
Concen: 3.392 ng  
RT: 23.578 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: BN038116.D  
Acq: 28 Oct 2025 16:02

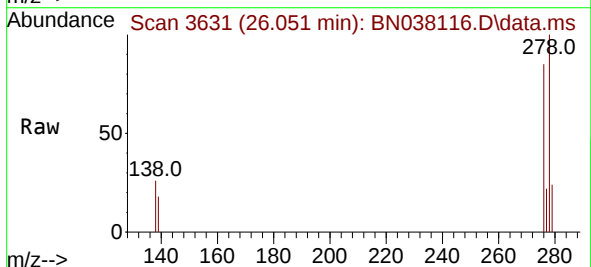
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2



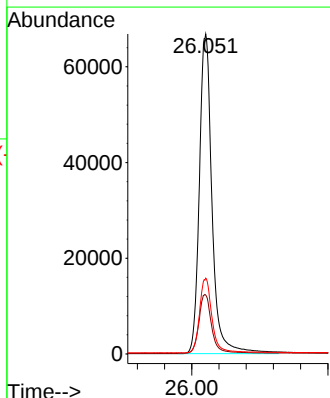
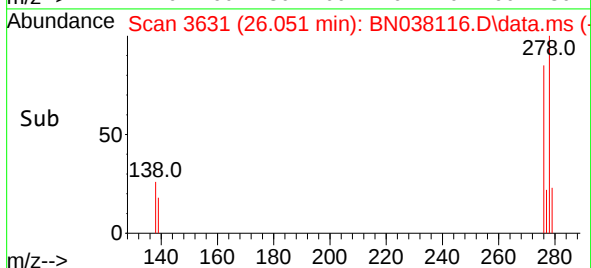
Tgt Ion:252 Resp: 231067  
Ion Ratio Lower Upper  
252 100  
253 22.1 23.1 34.7#  
125 13.4 18.6 28.0#

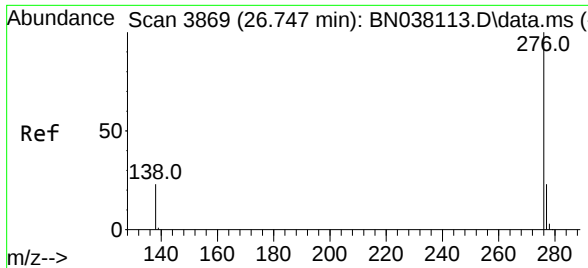


#40  
Dibenzo(a,h)anthracene  
Concen: 3.449 ng  
RT: 26.051 min Scan# 3631  
Delta R.T. 0.003 min  
Lab File: BN038116.D  
Acq: 28 Oct 2025 16:02



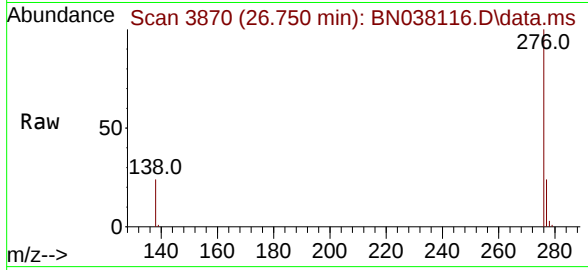
Tgt Ion:278 Resp: 217022  
Ion Ratio Lower Upper  
278 100  
139 18.4 17.6 26.4  
279 23.7 22.6 33.8



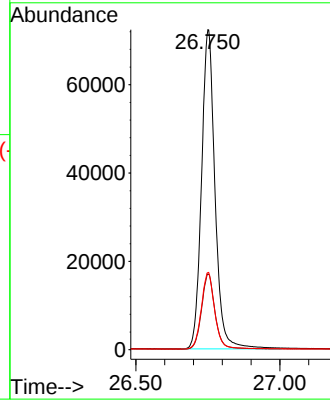
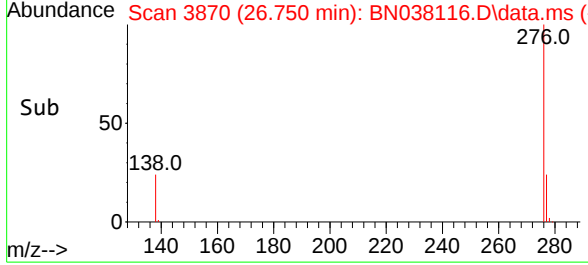


#41  
Benzo(g,h,i)perylene  
Concen: 3.274 ng  
RT: 26.750 min Scan# 3869  
Delta R.T. 0.000 min  
Lab File: BN038116.D  
Acq: 28 Oct 2025 16:02

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2



Tgt Ion:276 Resp: 235264  
Ion Ratio Lower Upper  
276 100  
277 23.7 19.7 29.5  
138 24.1 20.2 30.4



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN102825\  
 Data File : BN038117.D  
 Acq On : 28 Oct 2025 16:38  
 Operator : RC/JU  
 Sample : SSTDICC5.0  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC5.0

Quant Time: Oct 28 17:31:59 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN102825.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Oct 28 17:15:13 2025  
 Response via : Initial Calibration

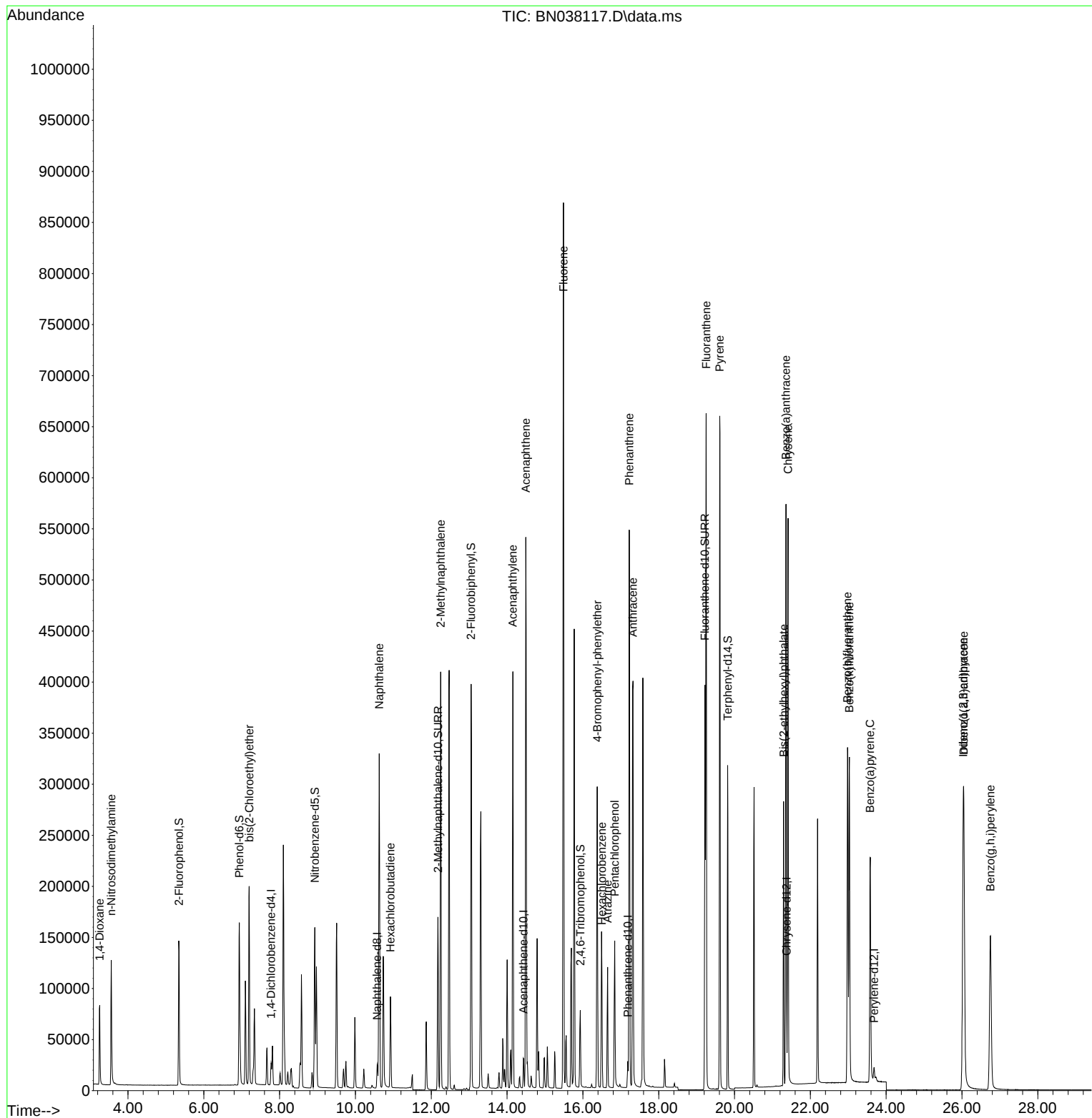
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.775  | 152  | 10579    | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.573 | 136  | 31197    | 0.400 | ng    | # 0.00   |
| 13) Acenaphthene-d10          | 14.430 | 164  | 17960    | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 17.186 | 188  | 33242    | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 21.375 | 240  | 25416    | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.680 | 264  | 18172    | 0.400 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.348  | 112  | 116608   | 4.679 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.937  | 99   | 150343   | 4.953 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.929  | 82   | 119764   | 4.757 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 12.177 | 152  | 225769   | 5.068 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.932 | 330  | 43520    | 5.881 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 13.051 | 172  | 335695   | 4.667 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 19.220 | 212  | 419371   | 5.003 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.819 | 244  | 283126   | 5.127 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
|                               |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.254  | 88   | 51426    | 4.705 | ng    | 100      |
| 3) n-Nitrosodimethylamine     | 3.557  | 42   | 68522    | 4.871 | ng    | 96       |
| 6) bis(2-Chloroethyl)ether    | 7.197  | 93   | 142662   | 4.784 | ng    | 99       |
| 9) Naphthalene                | 10.626 | 128  | 422794   | 4.920 | ng    | 99       |
| 10) Hexachlorobutadiene       | 10.925 | 225  | 68839    | 4.748 | ng    | # 99     |
| 12) 2-Methylnaphthalene       | 12.248 | 142  | 287955   | 5.025 | ng    | 99       |
| 16) Acenaphthylene            | 14.152 | 152  | 428380   | 5.267 | ng    | 99       |
| 17) Acenaphthene              | 14.494 | 154  | 291166   | 5.117 | ng    | 95       |
| 18) Fluorene                  | 15.489 | 166  | 389813   | 5.227 | ng    | 98       |
| 21) 4-Bromophenyl-phenylether | 16.379 | 248  | 114170   | 5.239 | ng    | # 92     |
| 22) Hexachlorobenzene         | 16.503 | 284  | 123999   | 5.003 | ng    | 99       |
| 23) Atrazine                  | 16.652 | 200  | 87823    | 5.501 | ng    | 97       |
| 24) Pentachlorophenol         | 16.838 | 266  | 66071    | 6.188 | ng    | 99       |
| 25) Phenanthrene              | 17.223 | 178  | 539294   | 5.110 | ng    | 100      |
| 26) Anthracene                | 17.322 | 178  | 499584   | 5.411 | ng    | 99       |
| 28) Fluoranthene              | 19.253 | 202  | 587710   | 4.984 | ng    | 99       |
| 30) Pyrene                    | 19.610 | 202  | 586526   | 5.112 | ng    | 100      |
| 32) Benzo(a)anthracene        | 21.358 | 228  | 462496   | 5.100 | ng    | 100      |
| 33) Chrysene                  | 21.411 | 228  | 473389   | 4.811 | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 21.295 | 149  | 223481   | 4.679 | ng    | 99       |
| 36) Indeno(1,2,3-cd)pyrene    | 26.034 | 276  | 403825   | 5.409 | ng    | 99       |
| 37) Benzo(b)fluoranthene      | 22.981 | 252  | 413811   | 5.326 | ng    | # 90     |
| 38) Benzo(k)fluoranthene      | 23.028 | 252  | 421255   | 5.387 | ng    | # 88     |
| 39) Benzo(a)pyrene            | 23.578 | 252  | 332107   | 5.340 | ng    | # 83     |
| 40) Dibenzo(a,h)anthracene    | 26.048 | 278  | 318538   | 5.545 | ng    | 91       |
| 41) Benzo(g,h,i)perylene      | 26.750 | 276  | 342713   | 5.223 | ng    | 98       |
| -----                         |        |      |          |       |       |          |

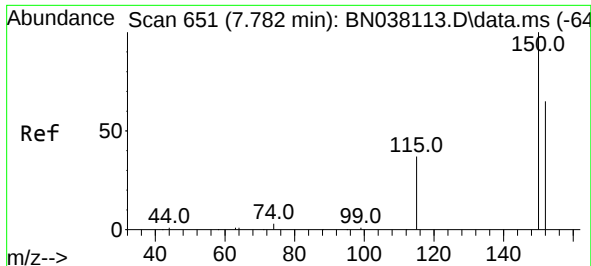
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Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN102825\  
Data File : BN038117.D  
Acq On : 28 Oct 2025 16:38  
Operator : RC/JU  
Sample : SSTDICC5.0  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

Quant Time: Oct 28 17:31:59 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN102825.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Oct 28 17:15:13 2025  
Response via : Initial Calibration

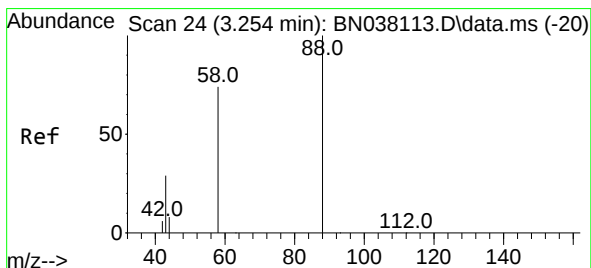
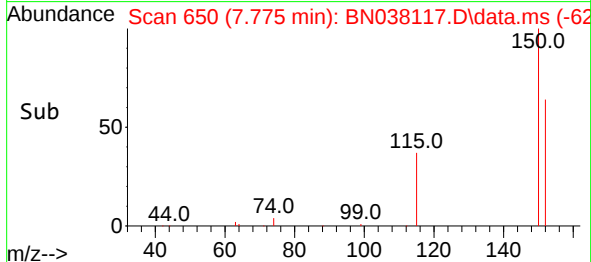
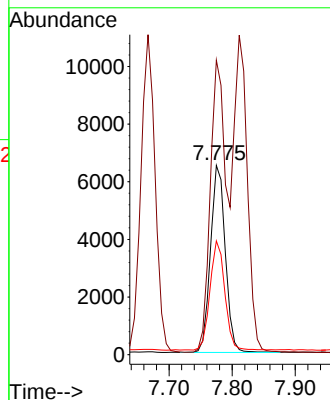
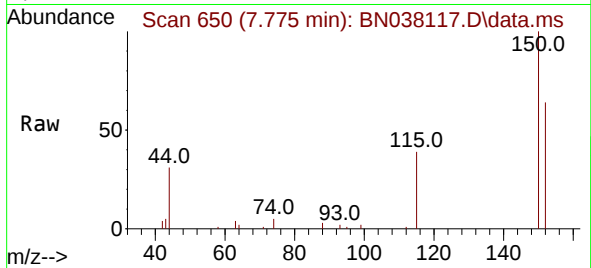




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 0.400 ng  
 RT: 7.775 min Scan# 61  
 Delta R.T. -0.000 min  
 Lab File: BN038117.D  
 Acq: 28 Oct 2025 16:38

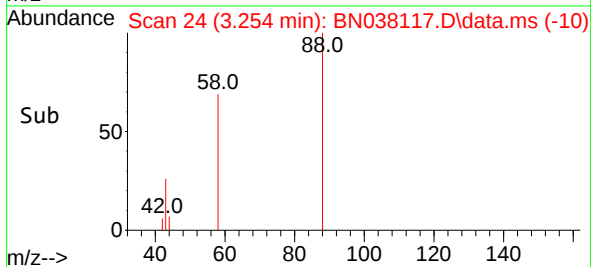
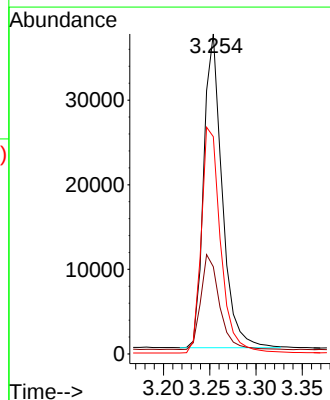
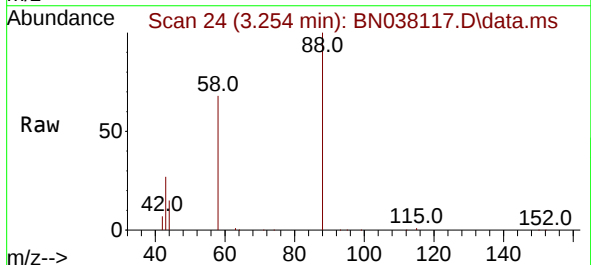
Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC5.0

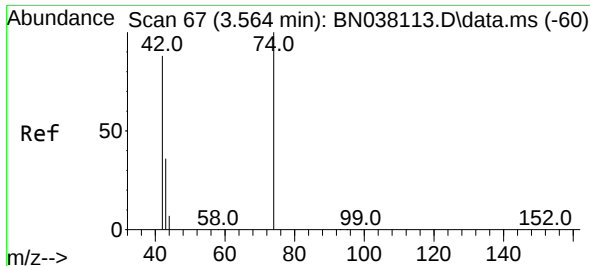
Tgt Ion:152 Resp: 10579  
 Ion Ratio Lower Upper  
 152 100  
 150 155.6 122.3 183.5  
 115 60.1 47.4 71.0



#2  
 1,4-Dioxane  
 Concen: 4.705 ng  
 RT: 3.254 min Scan# 24  
 Delta R.T. 0.000 min  
 Lab File: BN038117.D  
 Acq: 28 Oct 2025 16:38

Tgt Ion: 88 Resp: 51426  
 Ion Ratio Lower Upper  
 88 100  
 43 30.5 24.3 36.5  
 58 75.4 60.4 90.6

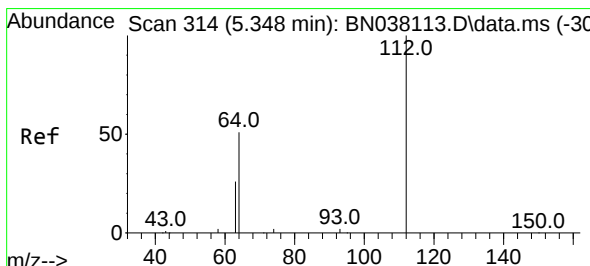
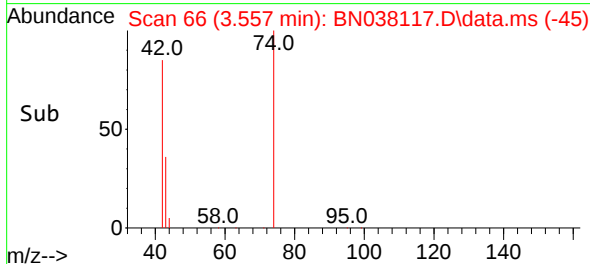
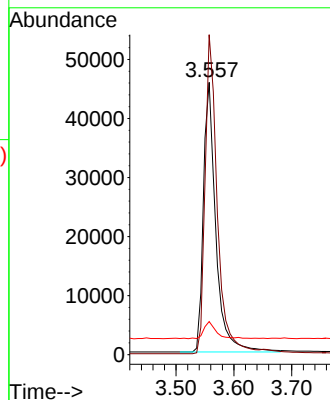
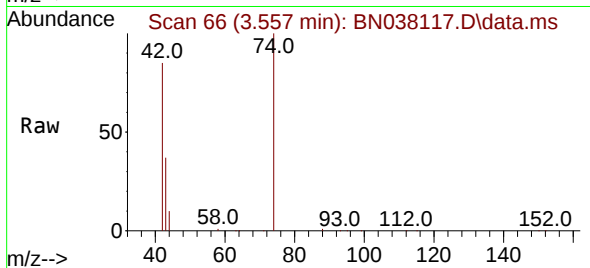




#3  
n-Nitrosodimethylamine  
Concen: 4.871 ng  
RT: 3.557 min Scan# 60  
Delta R.T. 0.000 min  
Lab File: BN038117.D  
Acq: 28 Oct 2025 16:38

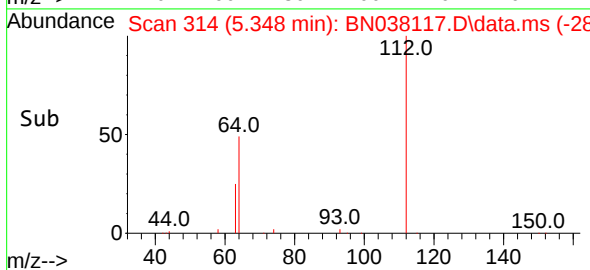
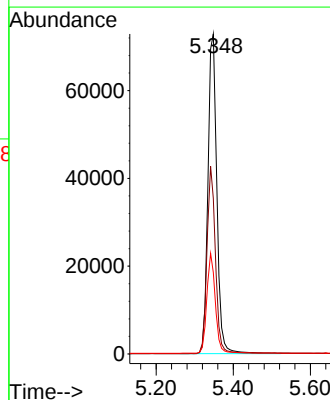
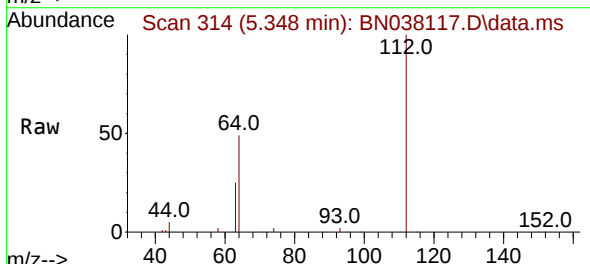
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

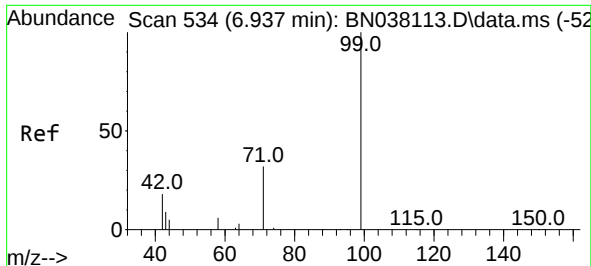
Tgt Ion: 42 Resp: 68522  
Ion Ratio Lower Upper  
42 100  
74 116.1 96.8 145.2  
44 6.5 5.3 7.9



#4  
2-Fluorophenol  
Concen: 4.679 ng  
RT: 5.348 min Scan# 314  
Delta R.T. 0.000 min  
Lab File: BN038117.D  
Acq: 28 Oct 2025 16:38

Tgt Ion: 112 Resp: 116608  
Ion Ratio Lower Upper  
112 100  
64 56.1 45.4 68.0  
63 29.9 23.2 34.8

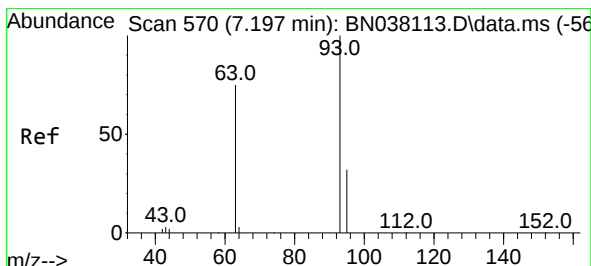
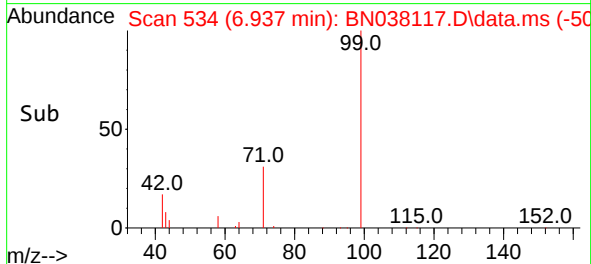
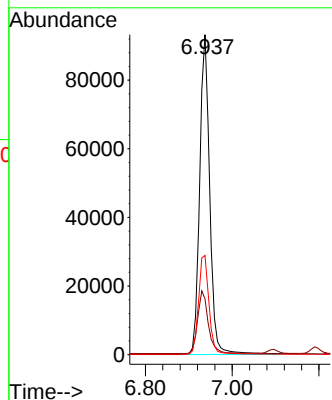
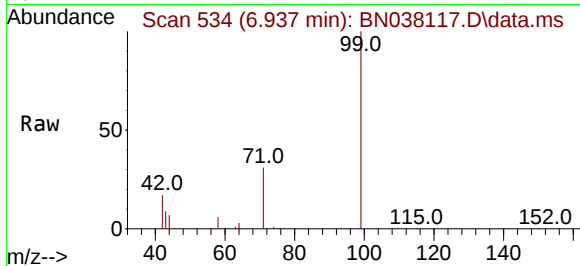




#5  
Phenol-d6  
Concen: 4.953 ng  
RT: 6.937 min Scan# 51  
Delta R.T. 0.000 min  
Lab File: BN038117.D  
Acq: 28 Oct 2025 16:38

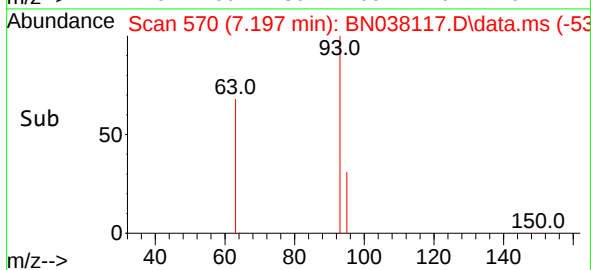
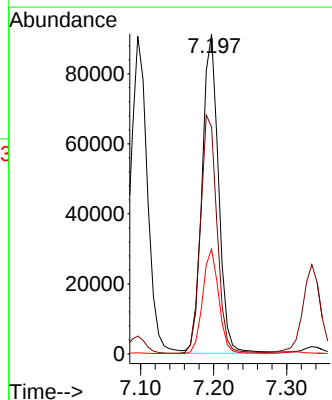
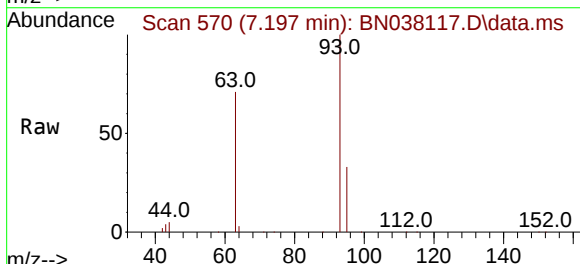
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

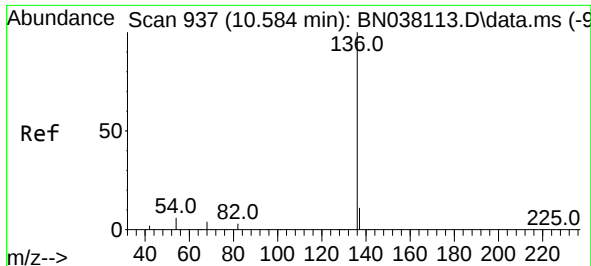
Tgt Ion: 99 Resp: 150343  
Ion Ratio Lower Upper  
99 100  
42 20.9 16.6 24.8  
71 32.5 25.4 38.2



#6  
bis(2-Chloroethyl)ether  
Concen: 4.784 ng  
RT: 7.197 min Scan# 570  
Delta R.T. 0.000 min  
Lab File: BN038117.D  
Acq: 28 Oct 2025 16:38

Tgt Ion: 93 Resp: 142662  
Ion Ratio Lower Upper  
93 100  
63 74.9 59.3 88.9  
95 31.9 25.2 37.8

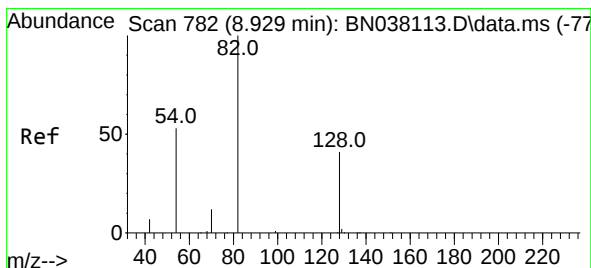
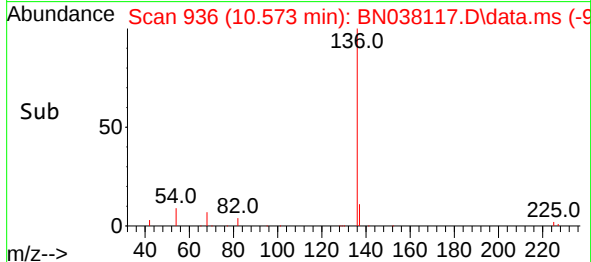
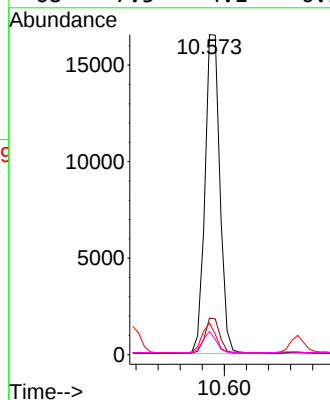
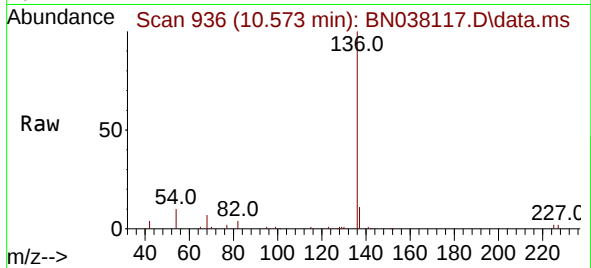




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.573 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: BN038117.D  
Acq: 28 Oct 2025 16:38

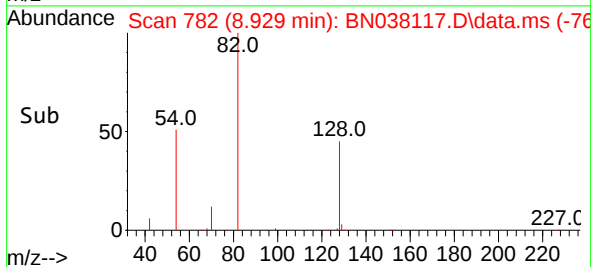
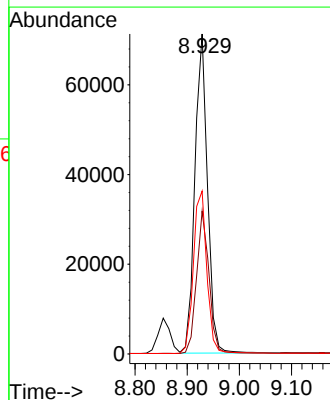
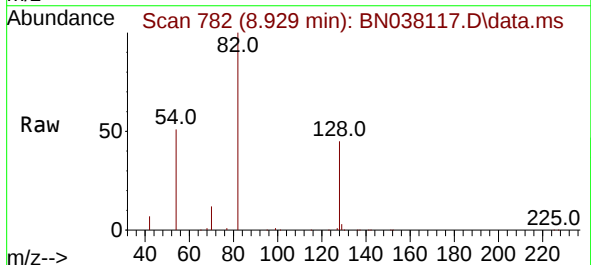
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

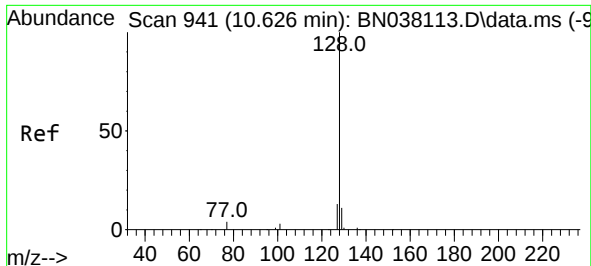
|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:136 | Resp: | 31197       |
| Ion         | Ratio | Lower Upper |
| 136         | 100   |             |
| 137         | 11.4  | 9.0 13.4    |
| 54          | 9.9   | 5.2 7.8#    |
| 68          | 7.3   | 4.1 6.1#    |



#8  
Nitrobenzene-d5  
Concen: 4.757 ng  
RT: 8.929 min Scan# 782  
Delta R.T. 0.000 min  
Lab File: BN038117.D  
Acq: 28 Oct 2025 16:38

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 82 | Resp: | 119764      |
| Ion         | Ratio | Lower Upper |
| 82          | 100   |             |
| 128         | 44.7  | 34.1 51.1   |
| 54          | 50.9  | 43.5 65.3   |

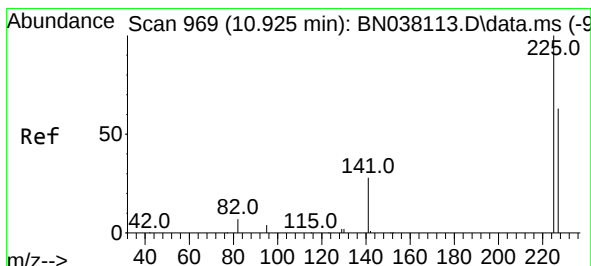
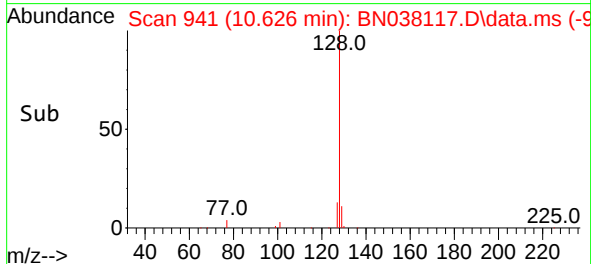
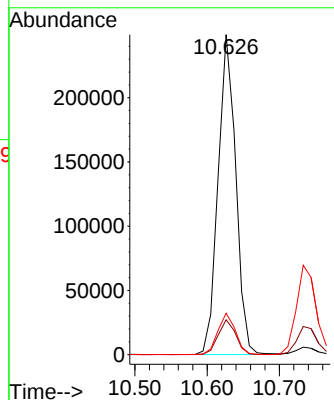
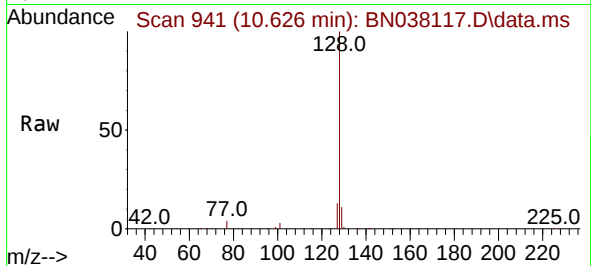




#9  
Naphthalene  
Concen: 4.920 ng  
RT: 10.626 min Scan# 941  
Delta R.T. 0.000 min  
Lab File: BN038117.D  
Acq: 28 Oct 2025 16:38

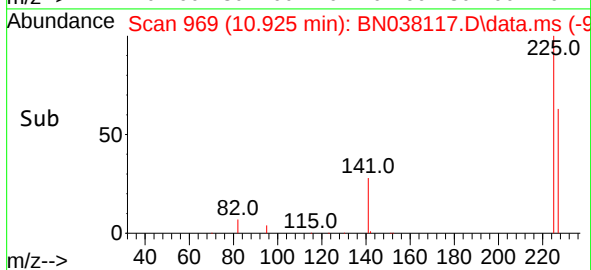
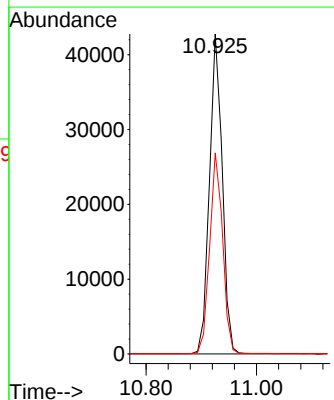
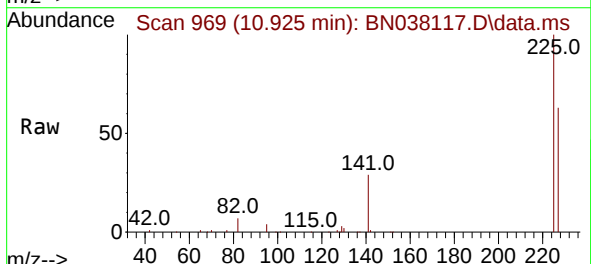
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

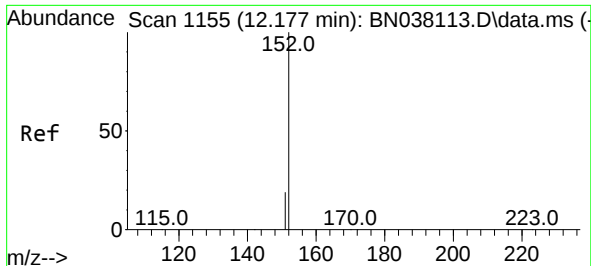
Tgt Ion:128 Resp: 422794  
Ion Ratio Lower Upper  
128 100  
129 10.9 9.1 13.7  
127 13.0 10.5 15.7



#10  
Hexachlorobutadiene  
Concen: 4.748 ng  
RT: 10.925 min Scan# 969  
Delta R.T. 0.000 min  
Lab File: BN038117.D  
Acq: 28 Oct 2025 16:38

Tgt Ion:225 Resp: 68839  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 63.6 50.3 75.5

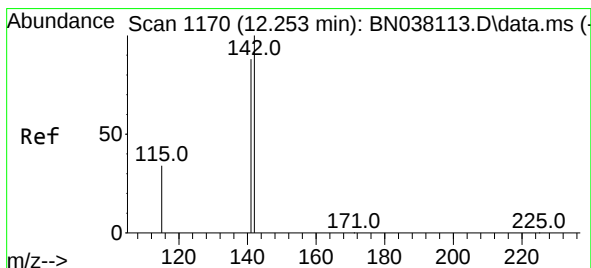
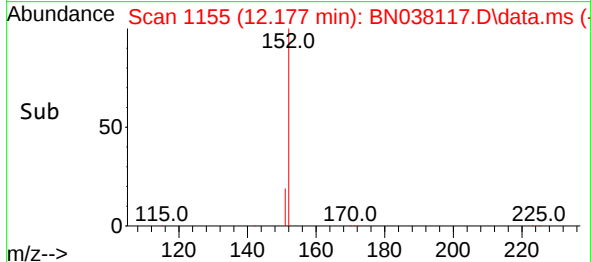
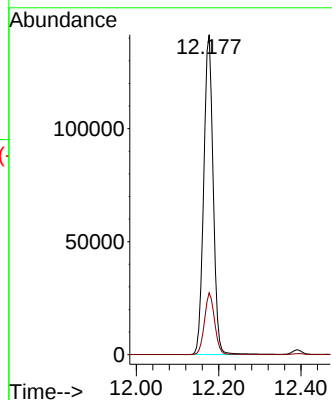
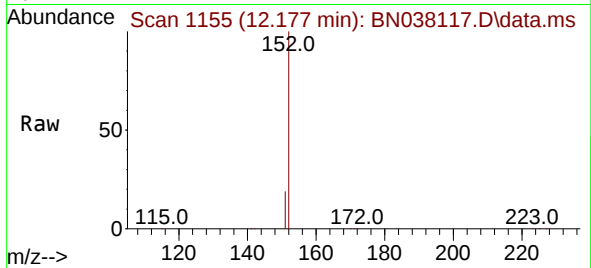




#11  
2-Methylnaphthalene-d10  
Concen: 5.068 ng  
RT: 12.177 min Scan# 1155  
Delta R.T. 0.000 min  
Lab File: BN038117.D  
Acq: 28 Oct 2025 16:38

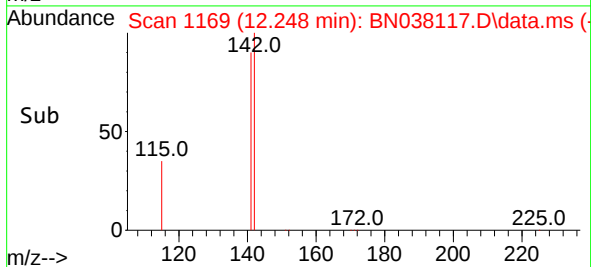
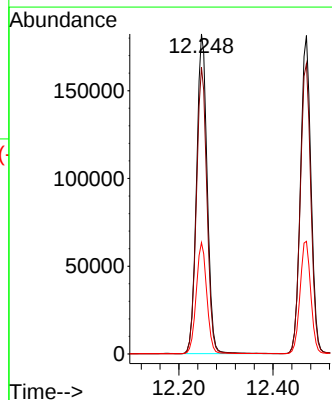
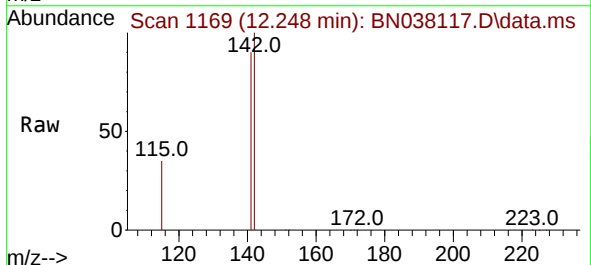
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

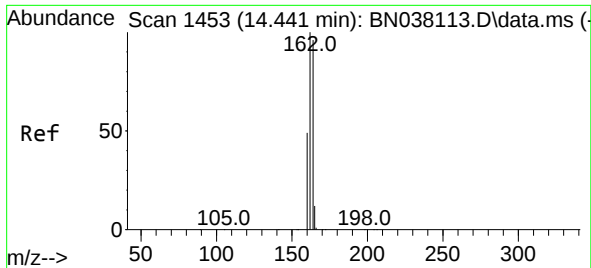
Tgt Ion:152 Resp: 225769  
Ion Ratio Lower Upper  
152 100  
151 20.8 16.8 25.2



#12  
2-Methylnaphthalene  
Concen: 5.025 ng  
RT: 12.248 min Scan# 1169  
Delta R.T. 0.000 min  
Lab File: BN038117.D  
Acq: 28 Oct 2025 16:38

Tgt Ion:142 Resp: 287955  
Ion Ratio Lower Upper  
142 100  
141 89.6 70.3 105.5  
115 34.8 27.8 41.6

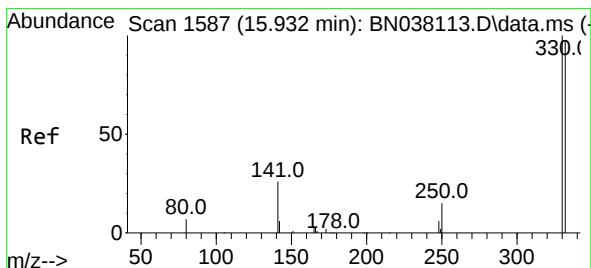
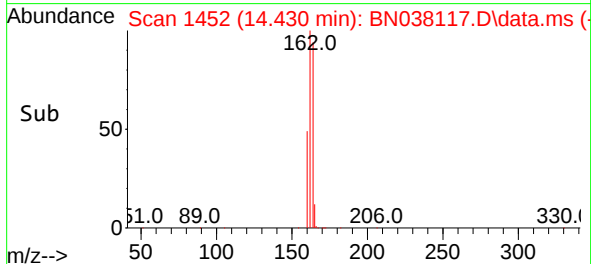
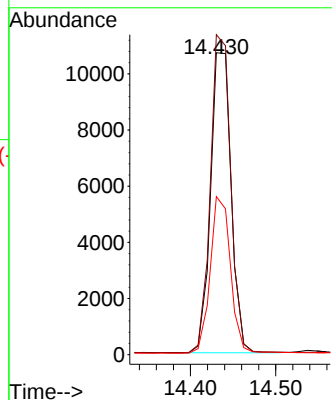
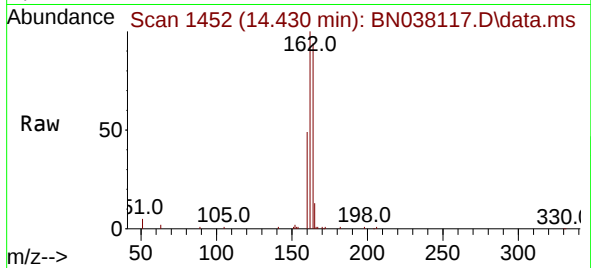




#13  
 Acenaphthene-d10  
 Concen: 0.400 ng  
 RT: 14.430 min Scan# 14  
 Delta R.T. 0.000 min  
 Lab File: BN038117.D  
 Acq: 28 Oct 2025 16:38

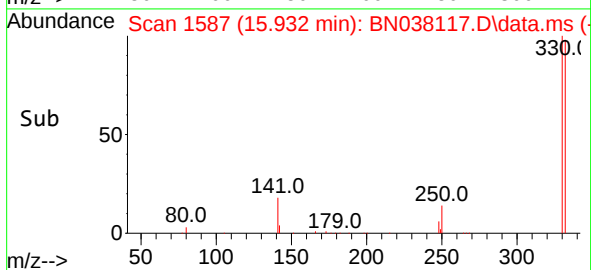
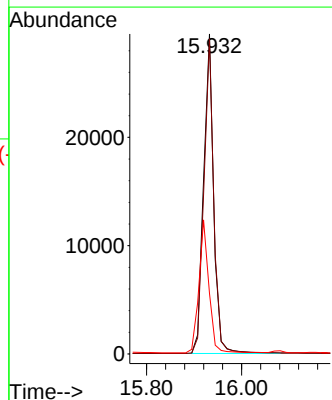
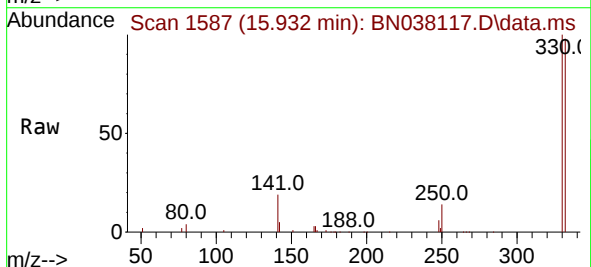
Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC5.0

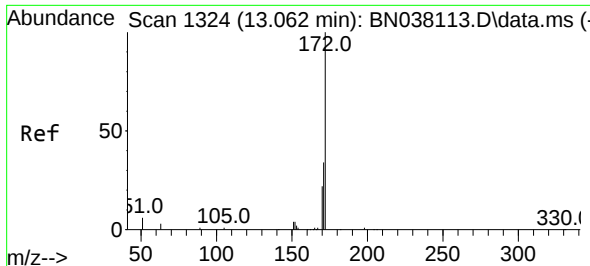
Tgt Ion:164 Resp: 17960  
 Ion Ratio Lower Upper  
 164 100  
 162 106.0 83.0 124.4  
 160 52.4 40.7 61.1



#14  
 2,4,6-Tribromophenol  
 Concen: 5.881 ng  
 RT: 15.932 min Scan# 1587  
 Delta R.T. 0.000 min  
 Lab File: BN038117.D  
 Acq: 28 Oct 2025 16:38

Tgt Ion:330 Resp: 43520  
 Ion Ratio Lower Upper  
 330 100  
 332 97.0 76.6 114.8  
 141 41.2 34.1 51.1

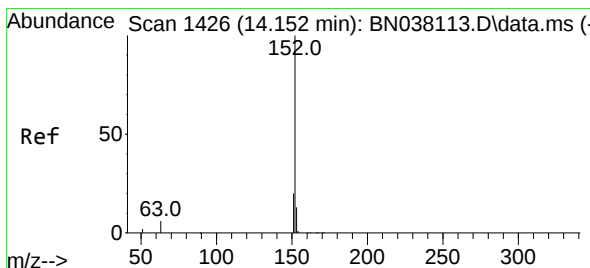
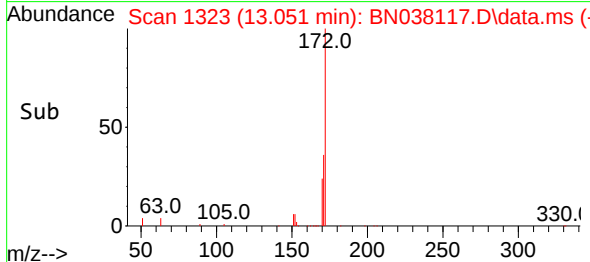
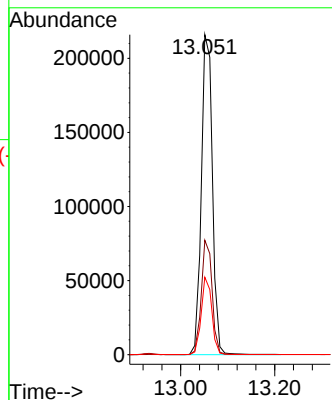
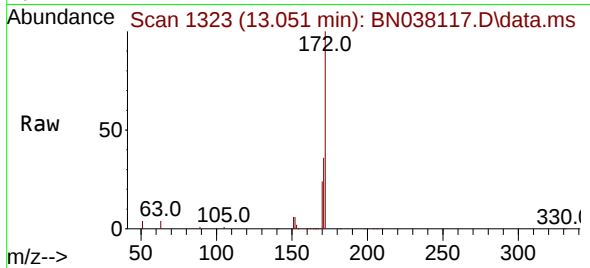




#15  
2-Fluorobiphenyl  
Concen: 4.667 ng  
RT: 13.051 min Scan# 1323  
Delta R.T. 0.000 min  
Lab File: BN038117.D  
Acq: 28 Oct 2025 16:38

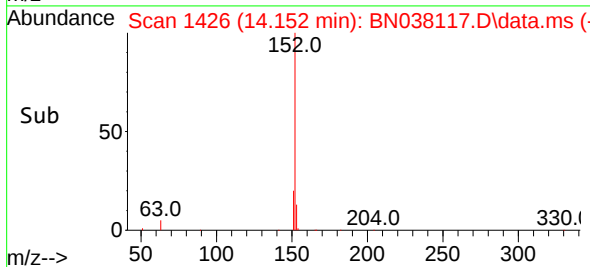
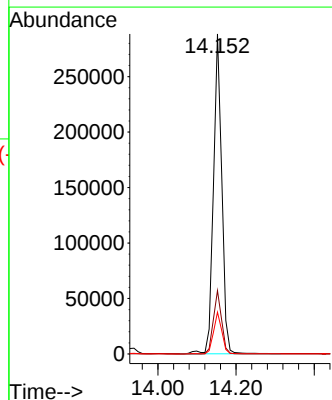
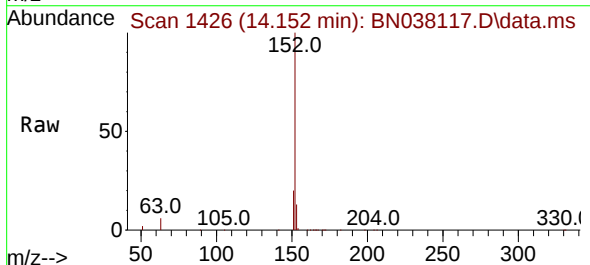
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

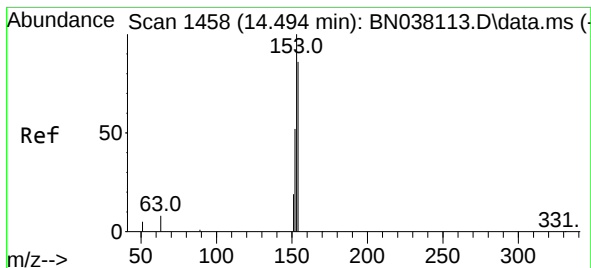
Tgt Ion:172 Resp: 335695  
Ion Ratio Lower Upper  
172 100  
171 35.8 27.8 41.6  
170 24.2 18.1 27.1



#16  
Acenaphthylene  
Concen: 5.267 ng  
RT: 14.152 min Scan# 1426  
Delta R.T. 0.000 min  
Lab File: BN038117.D  
Acq: 28 Oct 2025 16:38

Tgt Ion:152 Resp: 428380  
Ion Ratio Lower Upper  
152 100  
151 19.5 15.8 23.8  
153 13.0 10.2 15.2





#17

Acenaphthene

Concen: 5.117 ng

RT: 14.494 min Scan# 1458

Delta R.T. 0.000 min

Lab File: BN038117.D

Acq: 28 Oct 2025 16:38

Instrument :

BNA\_N

ClientSampleId :

SSTDICC5.0

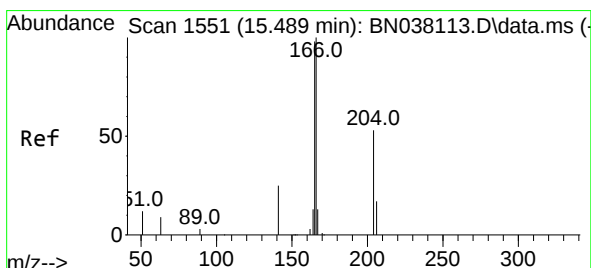
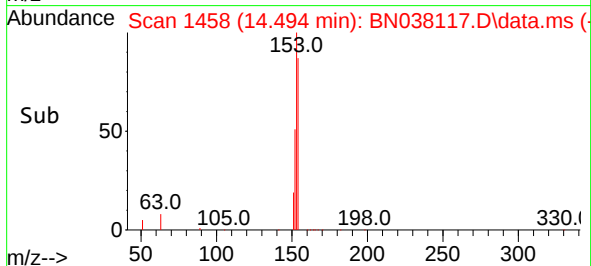
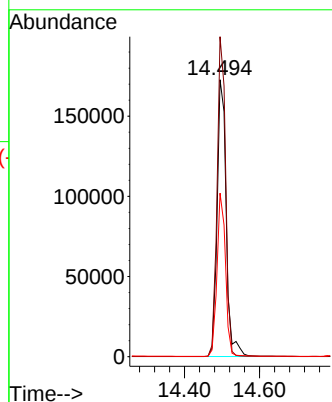
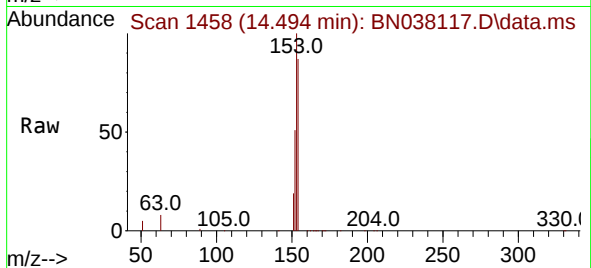
Tgt Ion:154 Resp: 291166

Ion Ratio Lower Upper

154 100

153 108.1 90.0 135.0

152 55.0 47.3 70.9



#18

Fluorene

Concen: 5.227 ng

RT: 15.489 min Scan# 1551

Delta R.T. -0.000 min

Lab File: BN038117.D

Acq: 28 Oct 2025 16:38

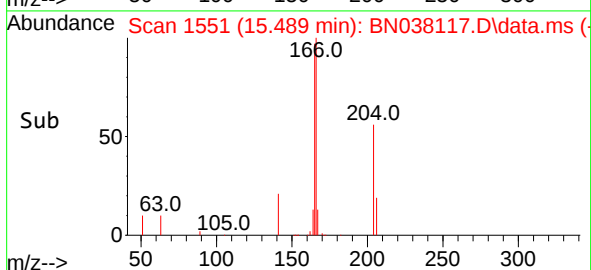
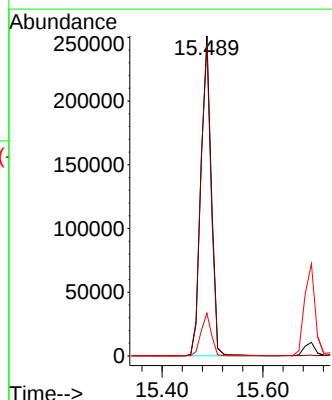
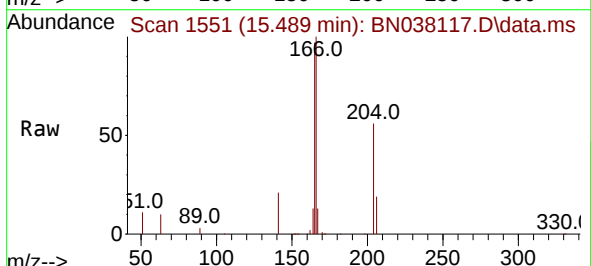
Tgt Ion:166 Resp: 389813

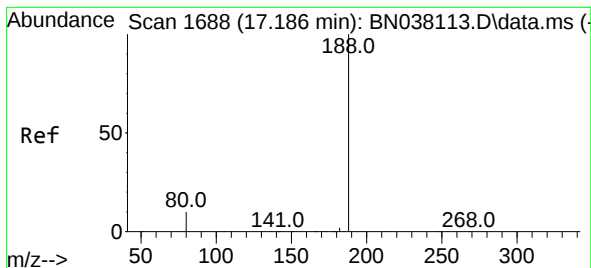
Ion Ratio Lower Upper

166 100

165 97.0 79.0 118.4

167 13.1 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.186 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN038117.D

Acq: 28 Oct 2025 16:38

Instrument :

BNA\_N

ClientSampleId :

SSTDICC5.0

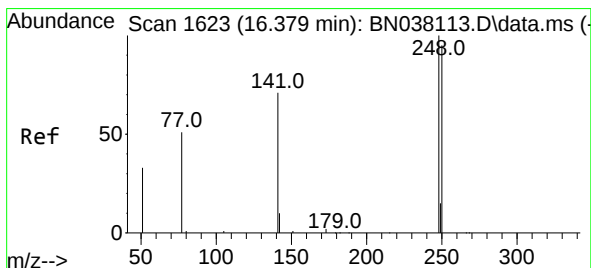
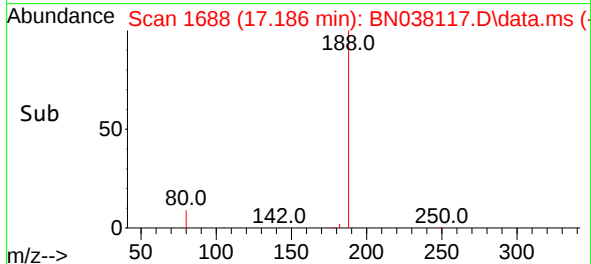
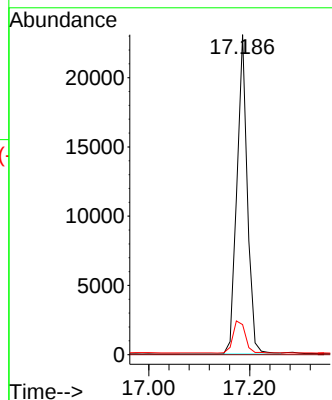
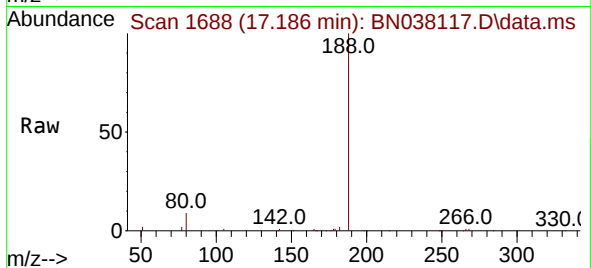
Tgt Ion:188 Resp: 33242

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.4 8.6 13.0



#21

4-Bromophenyl-phenylether

Concen: 5.239 ng

RT: 16.379 min Scan# 1623

Delta R.T. 0.000 min

Lab File: BN038117.D

Acq: 28 Oct 2025 16:38

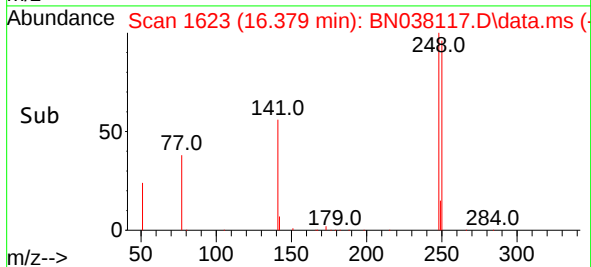
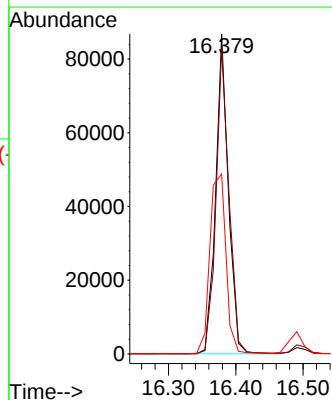
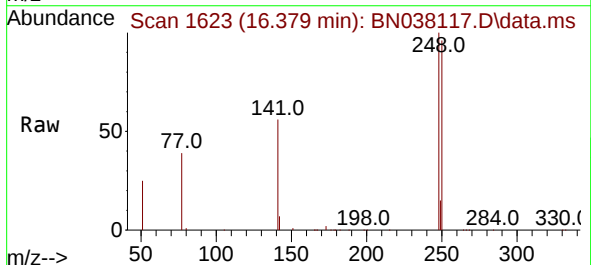
Tgt Ion:248 Resp: 114170

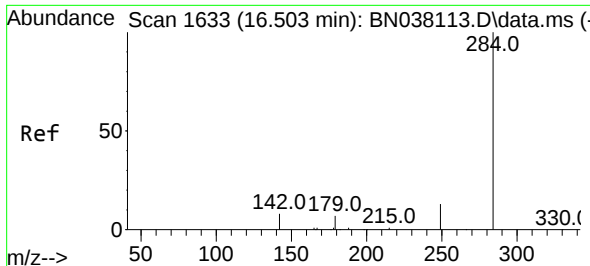
Ion Ratio Lower Upper

248 100

250 95.7 76.2 114.2

141 56.3 57.6 86.4#

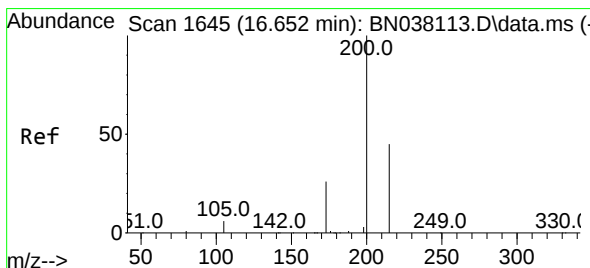
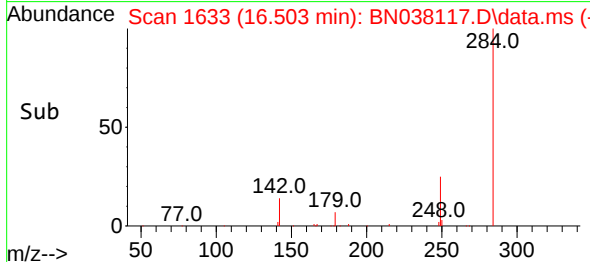
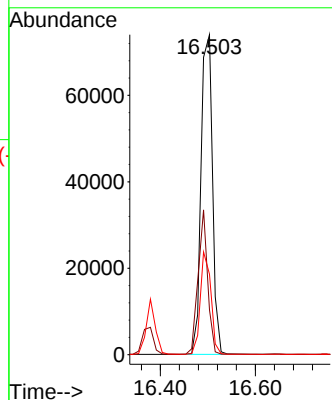
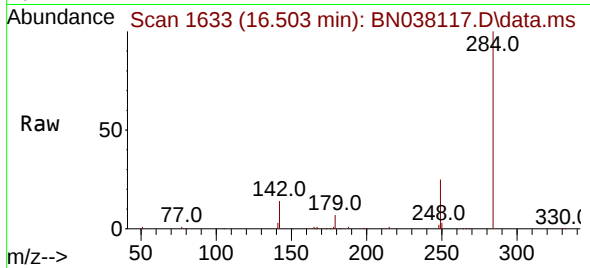




#22  
Hexachlorobenzene  
Concen: 5.003 ng  
RT: 16.503 min Scan# 1633  
Delta R.T. 0.000 min  
Lab File: BN038117.D  
Acq: 28 Oct 2025 16:38

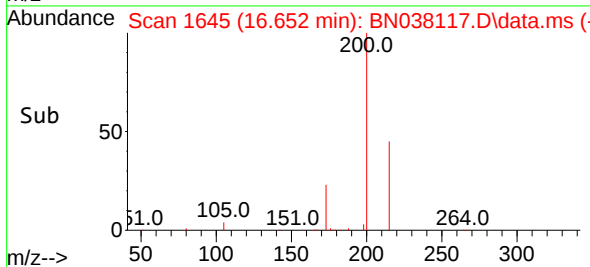
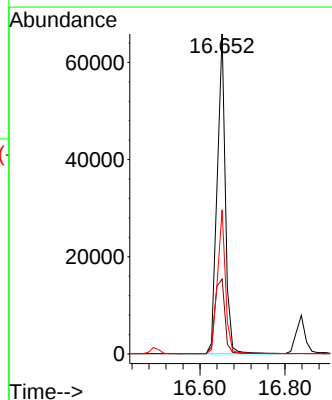
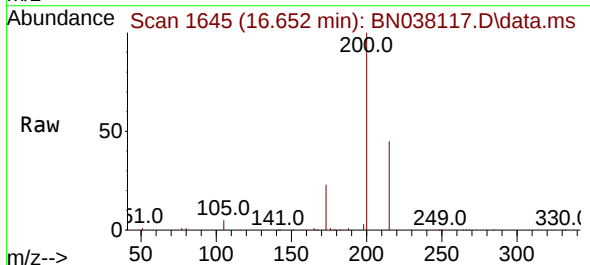
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

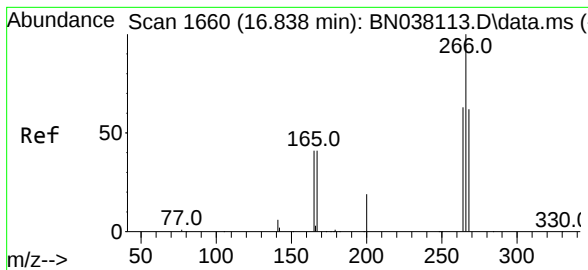
Tgt Ion:284 Resp: 123999  
Ion Ratio Lower Upper  
284 100  
142 37.6 30.5 45.7  
249 29.6 23.5 35.3



#23  
Atrazine  
Concen: 5.501 ng  
RT: 16.652 min Scan# 1645  
Delta R.T. 0.000 min  
Lab File: BN038117.D  
Acq: 28 Oct 2025 16:38

Tgt Ion:200 Resp: 87823  
Ion Ratio Lower Upper  
200 100  
173 23.4 21.4 32.2  
215 45.1 36.7 55.1

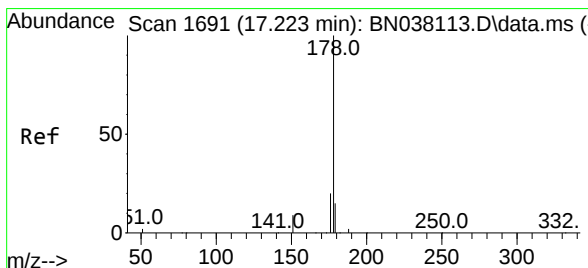
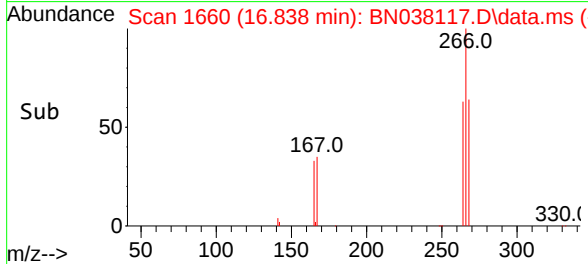
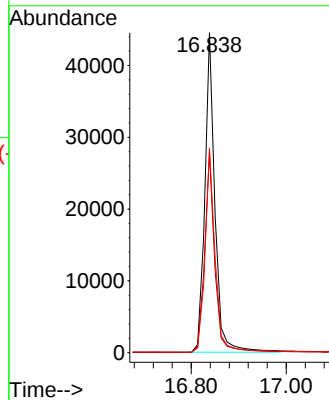
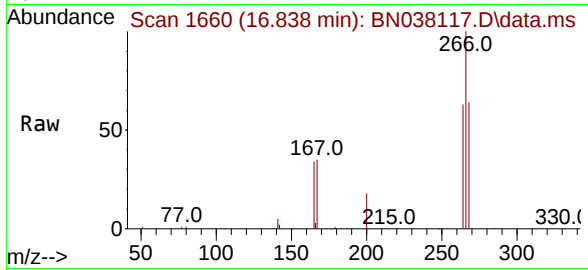




#24  
 Pentachlorophenol  
 Concen: 6.188 ng  
 RT: 16.838 min Scan# 1660  
 Delta R.T. 0.000 min  
 Lab File: BN038117.D  
 Acq: 28 Oct 2025 16:38

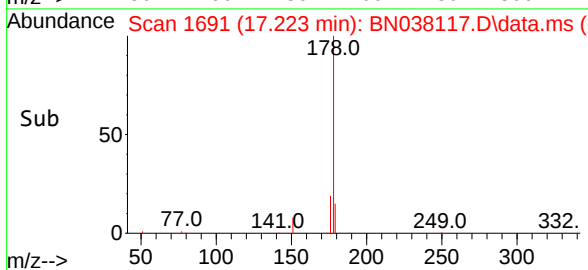
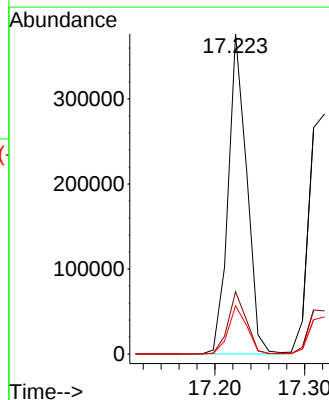
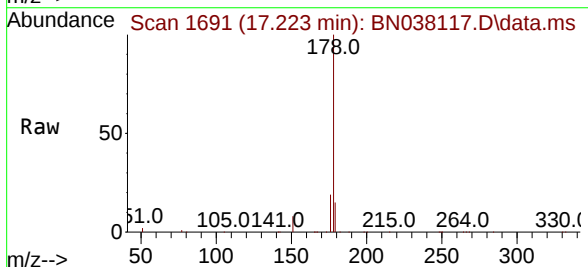
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 ClientSampleId :  
 SSTDICC5.0

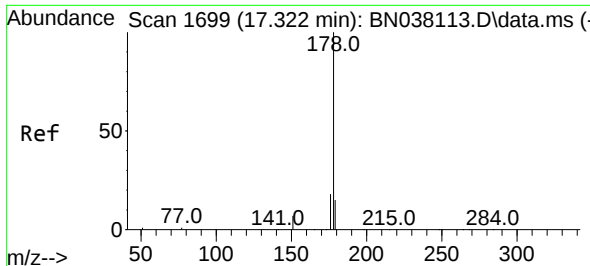
Tgt Ion:266 Resp: 66071  
 Ion Ratio Lower Upper  
 266 100  
 264 62.7 49.3 73.9  
 268 64.1 50.6 75.8



#25  
 Phenanthrene  
 Concen: 5.110 ng  
 RT: 17.223 min Scan# 1691  
 Delta R.T. 0.000 min  
 Lab File: BN038117.D  
 Acq: 28 Oct 2025 16:38

Tgt Ion:178 Resp: 539294  
 Ion Ratio Lower Upper  
 178 100  
 176 19.2 15.5 23.3  
 179 15.1 12.2 18.4

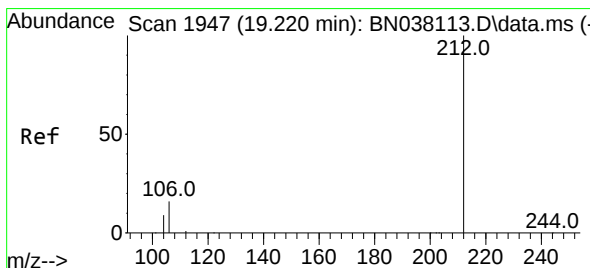
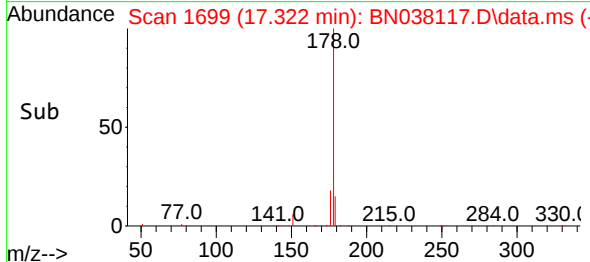
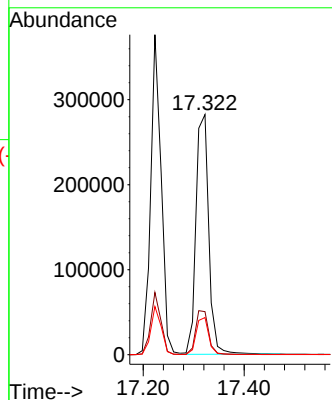
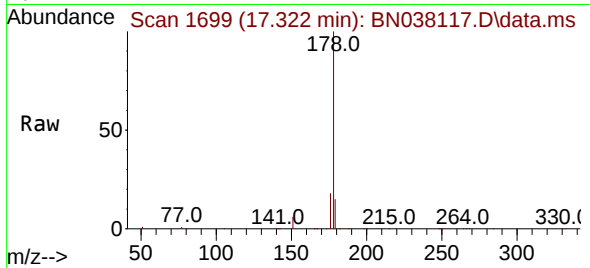




#26  
 Anthracene  
 Concen: 5.411 ng  
 RT: 17.322 min Scan# 1699  
 Delta R.T. 0.000 min  
 Lab File: BN038117.D  
 Acq: 28 Oct 2025 16:38

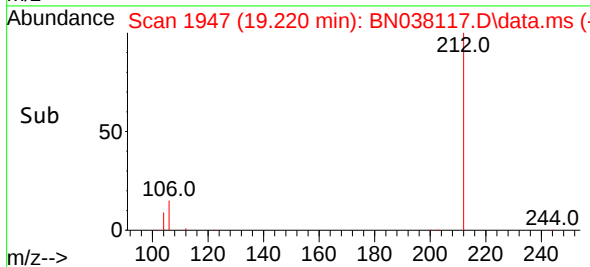
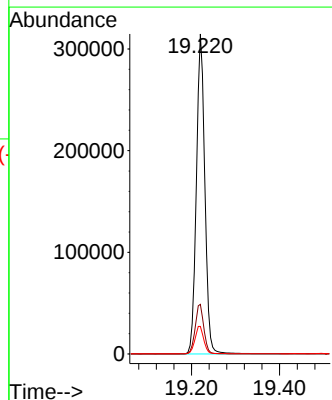
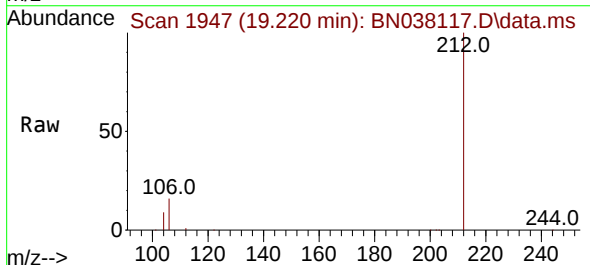
Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC5.0

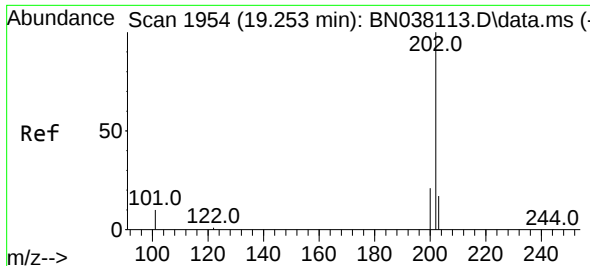
Tgt Ion:178 Resp: 499584  
 Ion Ratio Lower Upper  
 178 100  
 176 18.6 14.9 22.3  
 179 15.3 11.8 17.8



#27  
 Fluoranthene-d10  
 Concen: 5.003 ng  
 RT: 19.220 min Scan# 1947  
 Delta R.T. 0.000 min  
 Lab File: BN038117.D  
 Acq: 28 Oct 2025 16:38

Tgt Ion:212 Resp: 419371  
 Ion Ratio Lower Upper  
 212 100  
 106 15.8 12.6 19.0  
 104 8.9 7.1 10.7

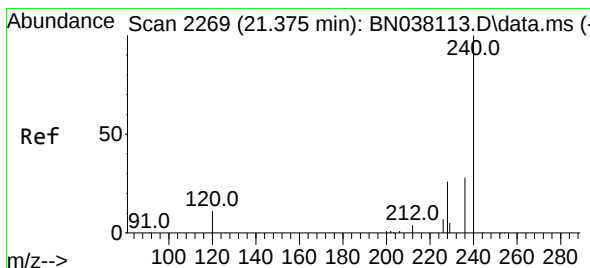
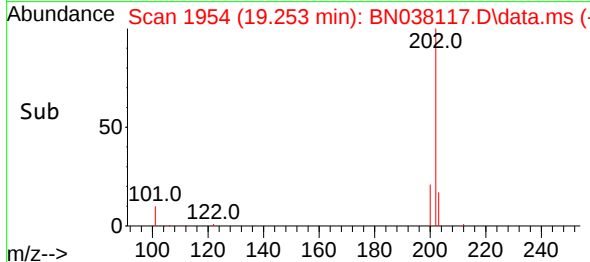
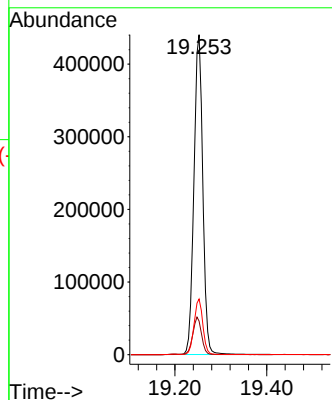
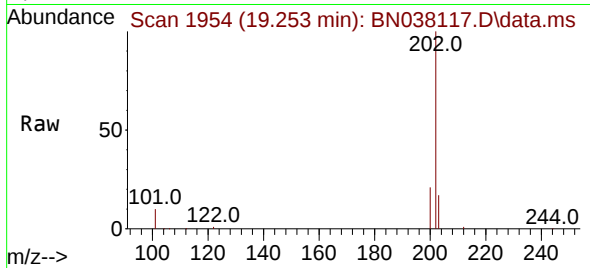




#28  
Fluoranthene  
Concen: 4.984 ng  
RT: 19.253 min Scan# 1954  
Delta R.T. 0.000 min  
Lab File: BN038117.D  
Acq: 28 Oct 2025 16:38

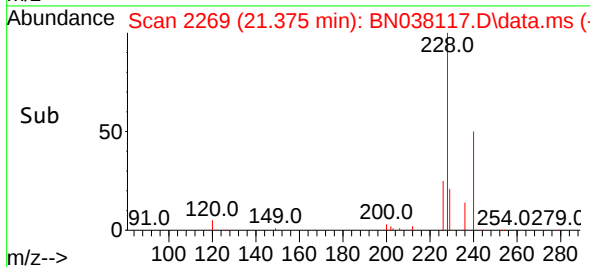
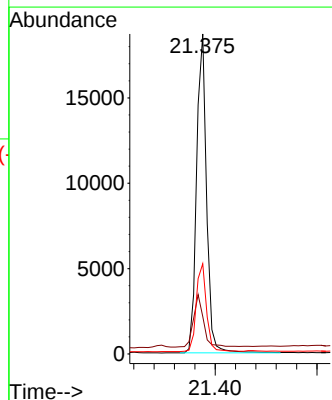
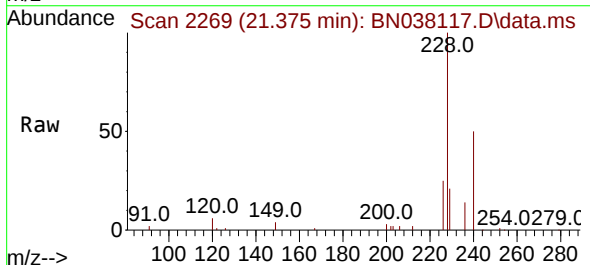
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

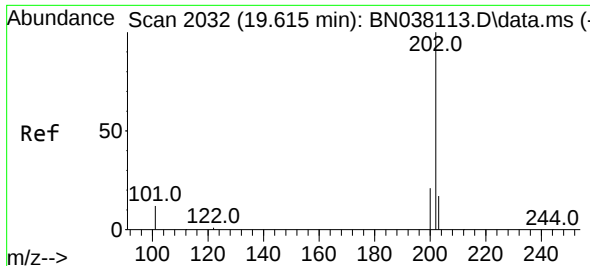
Tgt Ion:202 Resp: 587710  
Ion Ratio Lower Upper  
202 100  
101 11.7 9.4 14.2  
203 17.3 13.4 20.2



#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.375 min Scan# 2269  
Delta R.T. 0.000 min  
Lab File: BN038117.D  
Acq: 28 Oct 2025 16:38

Tgt Ion:240 Resp: 25416  
Ion Ratio Lower Upper  
240 100  
120 11.7 10.7 16.1  
236 28.2 23.1 34.7

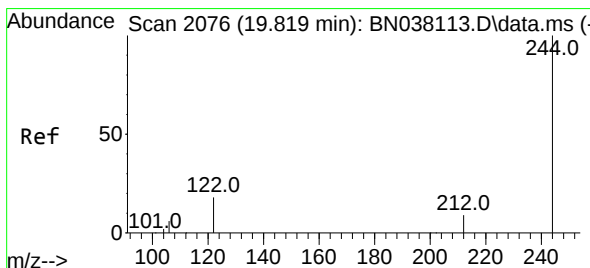
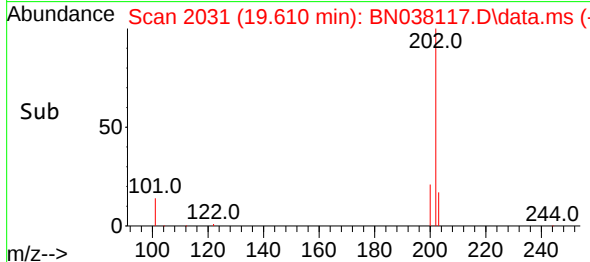
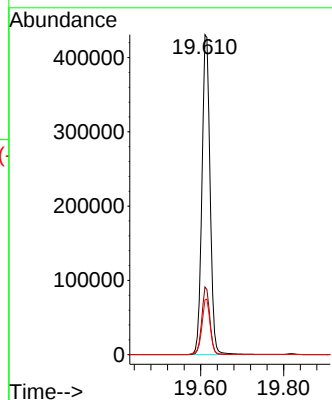
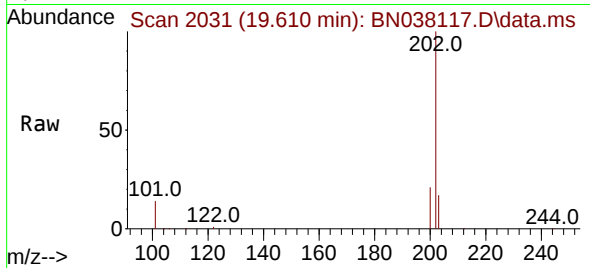




#30  
 Pyrene  
 Concen: 5.112 ng  
 RT: 19.610 min Scan# 2031  
 Delta R.T. 0.000 min  
 Lab File: BN038117.D  
 Acq: 28 Oct 2025 16:38

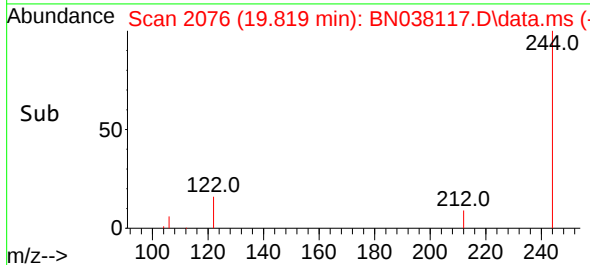
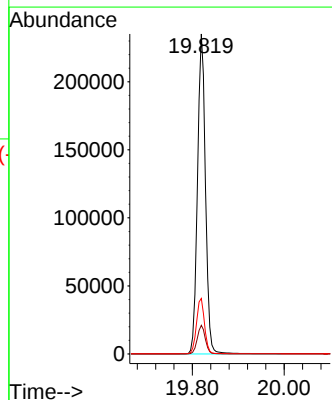
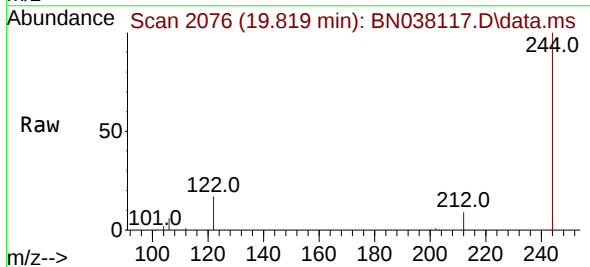
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 ClientSampleId :  
 SSTDICC5.0

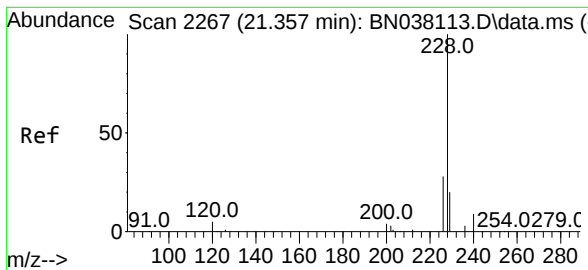
Tgt Ion:202 Resp: 586526  
 Ion Ratio Lower Upper  
 202 100  
 200 21.0 16.7 25.1  
 203 17.8 14.2 21.2



#31  
 Terphenyl-d14  
 Concen: 5.127 ng  
 RT: 19.819 min Scan# 2076  
 Delta R.T. 0.000 min  
 Lab File: BN038117.D  
 Acq: 28 Oct 2025 16:38

Tgt Ion:244 Resp: 283126  
 Ion Ratio Lower Upper  
 244 100  
 212 8.9 7.8 11.6  
 122 17.3 15.2 22.8

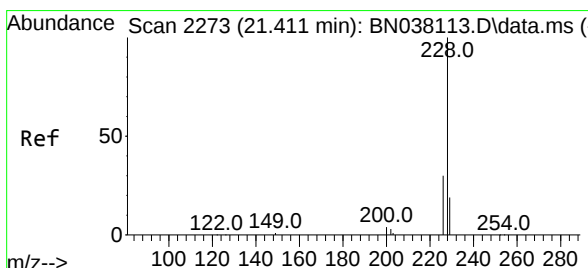
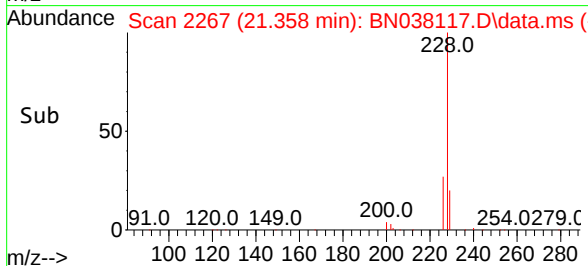
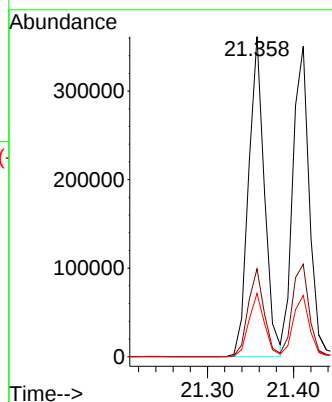
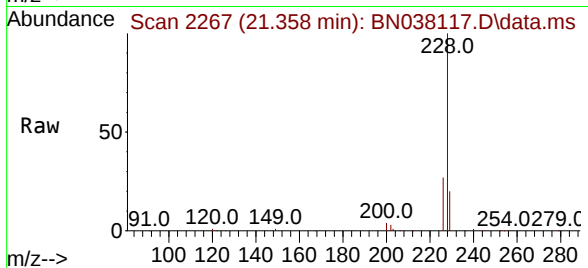




#32  
Benzo(a)anthracene  
Concen: 5.100 ng  
RT: 21.358 min Scan# 2135  
Delta R.T. 0.000 min  
Lab File: BN038117.D  
Acq: 28 Oct 2025 16:38

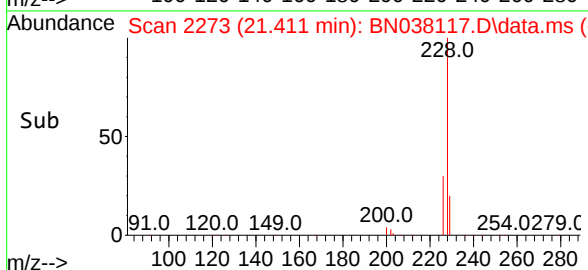
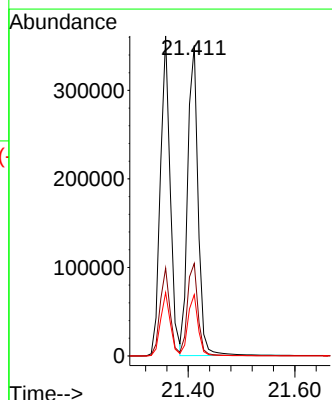
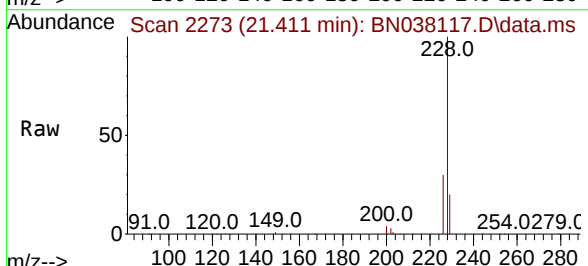
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BNA\_N  
ClientSampleId :  
SSTDICC5.0

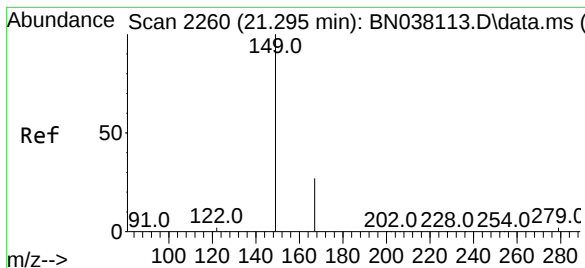
Tgt Ion:228 Resp: 462496  
Ion Ratio Lower Upper  
228 100  
226 27.4 22.2 33.4  
229 19.8 15.8 23.8



#33  
Chrysene  
Concen: 4.811 ng  
RT: 21.411 min Scan# 2273  
Delta R.T. 0.000 min  
Lab File: BN038117.D  
Acq: 28 Oct 2025 16:38

Tgt Ion:228 Resp: 473389  
Ion Ratio Lower Upper  
228 100  
226 29.8 24.3 36.5  
229 19.8 15.7 23.5

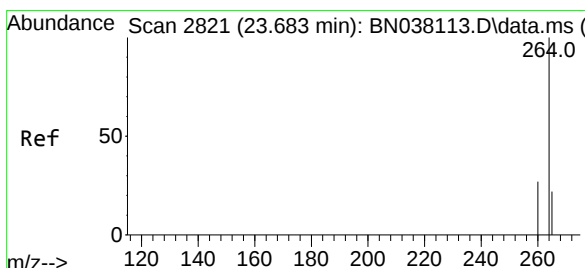
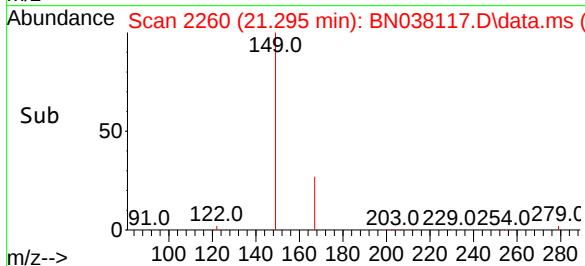
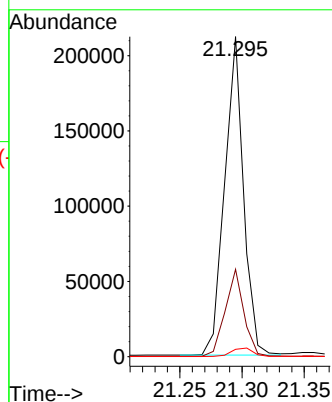
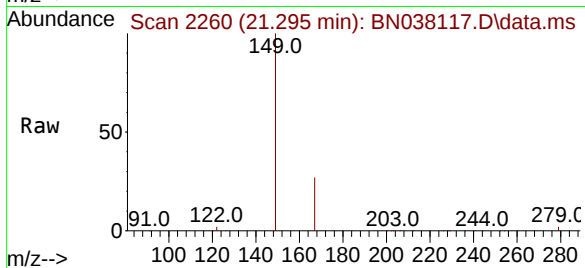




#34  
 Bis(2-ethylhexyl)phthalate  
 Concen: 4.679 ng  
 RT: 21.295 min Scan# 21  
 Delta R.T. 0.000 min  
 Lab File: BN038117.D  
 Acq: 28 Oct 2025 16:38

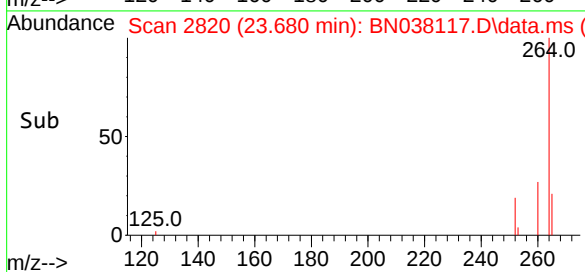
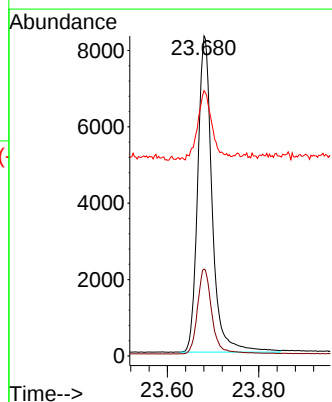
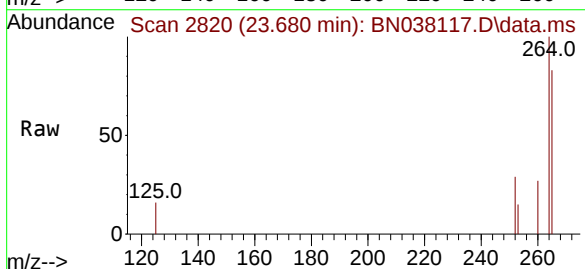
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 BNA\_N  
 ClientSampleId :  
 SSTDICC5.0

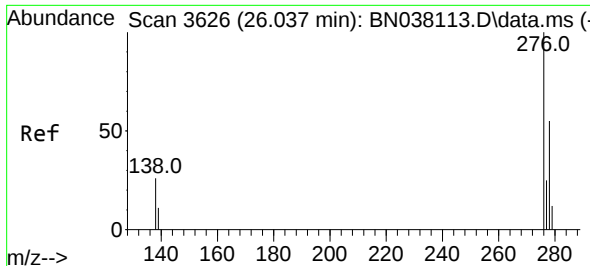
Tgt Ion:149 Resp: 223481  
 Ion Ratio Lower Upper  
 149 100  
 167 27.0 21.1 31.7  
 279 3.1 2.9 4.3



#35  
 Perylene-d12  
 Concen: 0.400 ng  
 RT: 23.680 min Scan# 2820  
 Delta R.T. 0.000 min  
 Lab File: BN038117.D  
 Acq: 28 Oct 2025 16:38

Tgt Ion:264 Resp: 18172  
 Ion Ratio Lower Upper  
 264 100  
 260 27.2 21.8 32.8  
 265 82.9 68.6 102.8

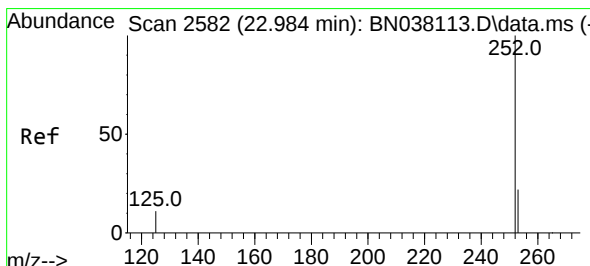
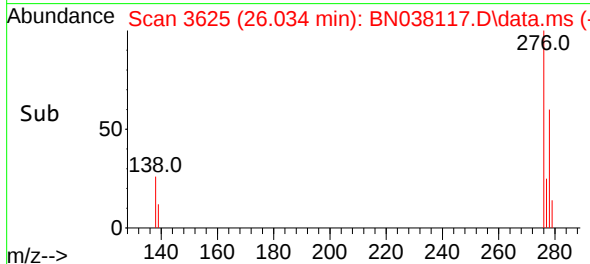
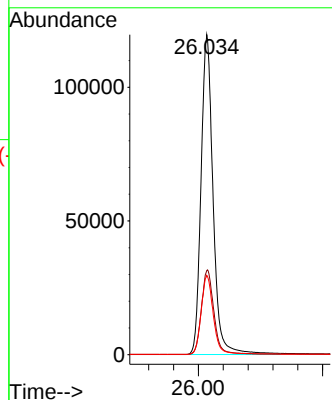
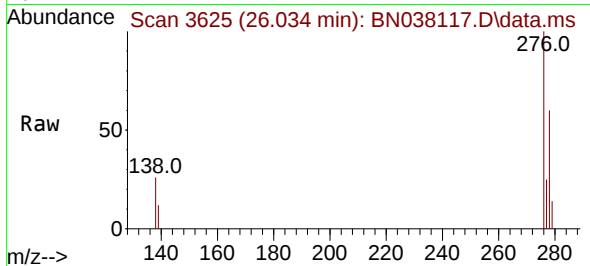




#36  
Indeno(1,2,3-cd)pyrene  
Concen: 5.409 ng  
RT: 26.034 min Scan# 3626  
Delta R.T. 0.000 min  
Lab File: BN038117.D  
Acq: 28 Oct 2025 16:38

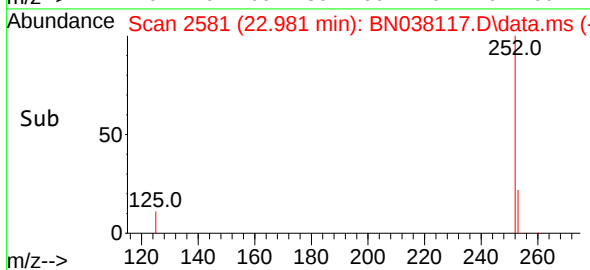
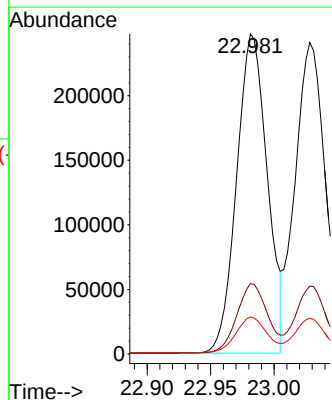
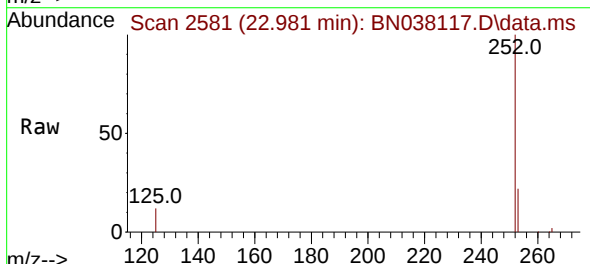
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

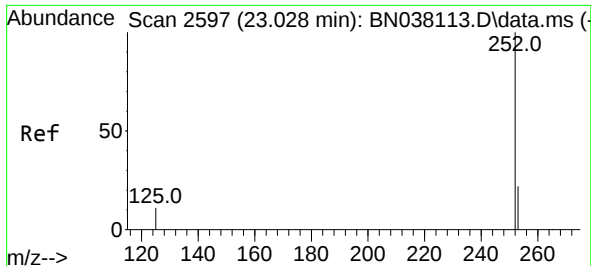
Tgt Ion:276 Resp: 403825  
Ion Ratio Lower Upper  
276 100  
138 27.3 21.4 32.0  
277 24.9 19.2 28.8



#37  
Benzo(b)fluoranthene  
Concen: 5.326 ng  
RT: 22.981 min Scan# 2581  
Delta R.T. 0.000 min  
Lab File: BN038117.D  
Acq: 28 Oct 2025 16:38

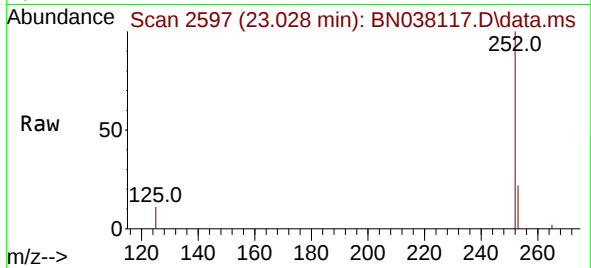
Tgt Ion:252 Resp: 413811  
Ion Ratio Lower Upper  
252 100  
253 22.0 20.9 31.3  
125 11.5 14.1 21.1#



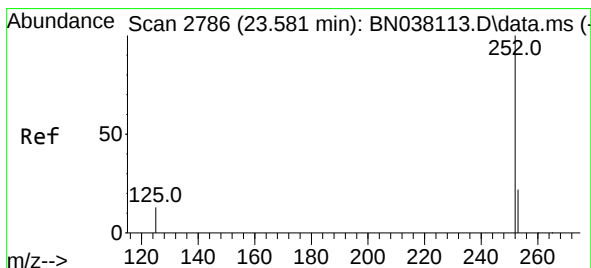
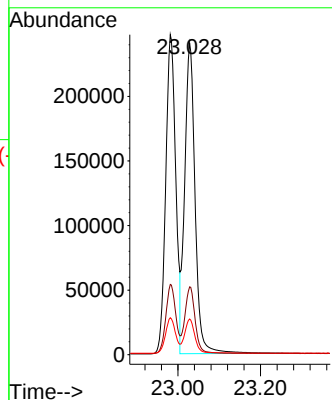


#38  
Benzo(k)fluoranthene  
Concen: 5.387 ng  
RT: 23.028 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: BN038117.D  
Acq: 28 Oct 2025 16:38

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

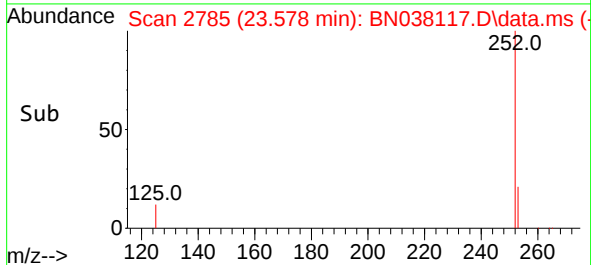
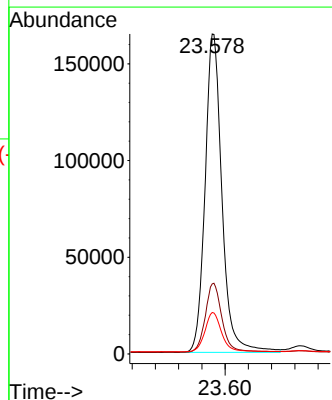
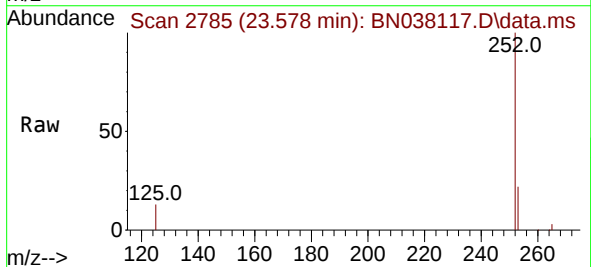


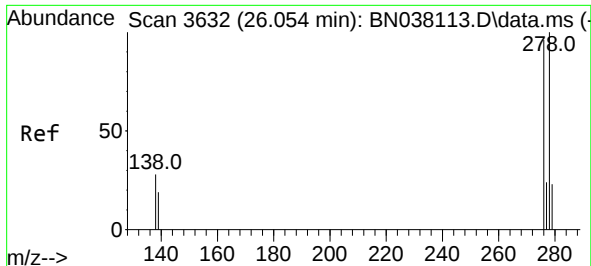
Tgt Ion:252 Resp: 421255  
Ion Ratio Lower Upper  
252 100  
253 21.8 21.2 31.8  
125 11.4 14.6 22.0#



#39  
Benzo(a)pyrene  
Concen: 5.340 ng  
RT: 23.578 min Scan# 2785  
Delta R.T. 0.000 min  
Lab File: BN038117.D  
Acq: 28 Oct 2025 16:38

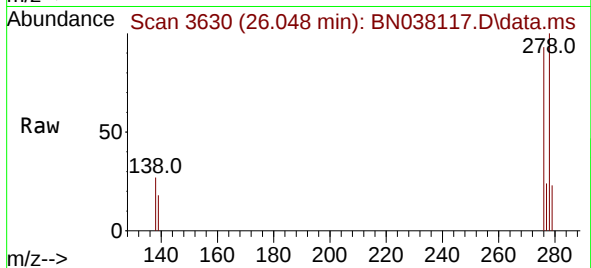
Tgt Ion:252 Resp: 332107  
Ion Ratio Lower Upper  
252 100  
253 21.9 23.1 34.7#  
125 12.9 18.6 28.0#



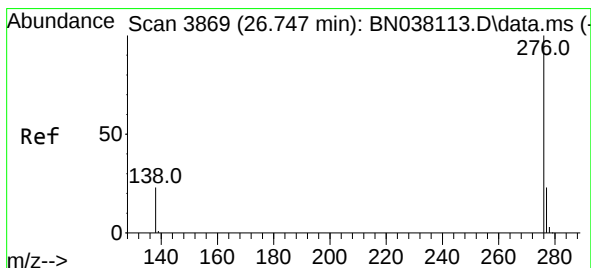
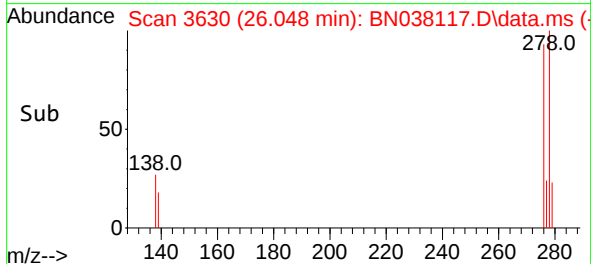
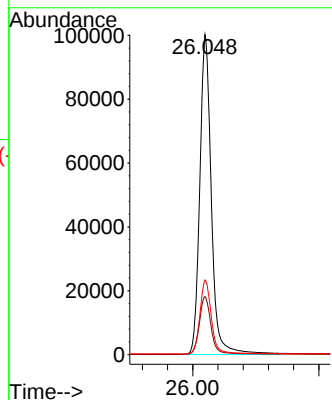


#40  
Dibenzo(a,h)anthracene  
Concen: 5.545 ng  
RT: 26.048 min Scan# 30  
Delta R.T. 0.000 min  
Lab File: BN038117.D  
Acq: 28 Oct 2025 16:38

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

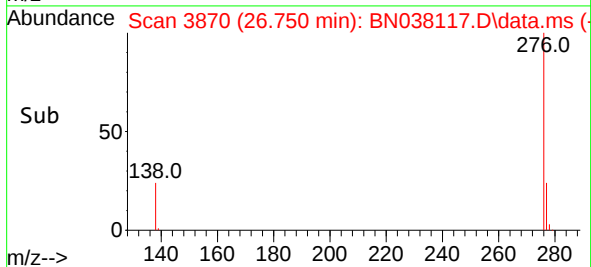
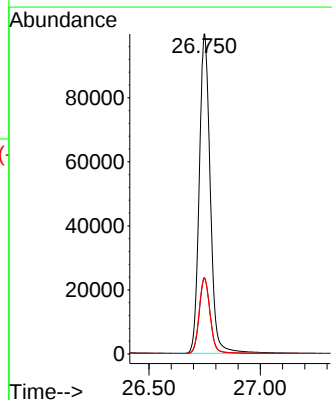
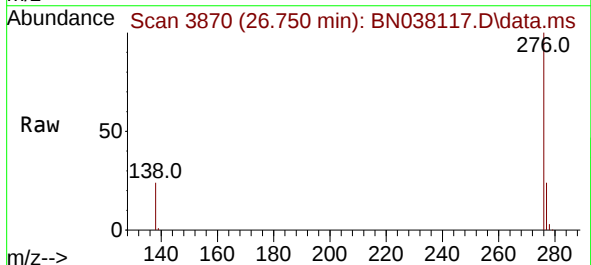


Tgt Ion:278 Resp: 318538  
Ion Ratio Lower Upper  
278 100  
139 18.2 17.6 26.4  
279 23.3 22.6 33.8



#41  
Benzo(g,h,i)perylene  
Concen: 5.223 ng  
RT: 26.750 min Scan# 3870  
Delta R.T. 0.000 min  
Lab File: BN038117.D  
Acq: 28 Oct 2025 16:38

Tgt Ion:276 Resp: 342713  
Ion Ratio Lower Upper  
276 100  
277 23.6 19.7 29.5  
138 23.9 20.2 30.4



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN102825\  
 Data File : BN038118.D  
 Acq On : 28 Oct 2025 17:51  
 Operator : RC/JU  
 Sample : SSTDICV0.4  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 ICVBN102825

Quant Time: Oct 29 17:07:11 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN102825.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Oct 29 13:09:46 2025  
 Response via : Initial Calibration

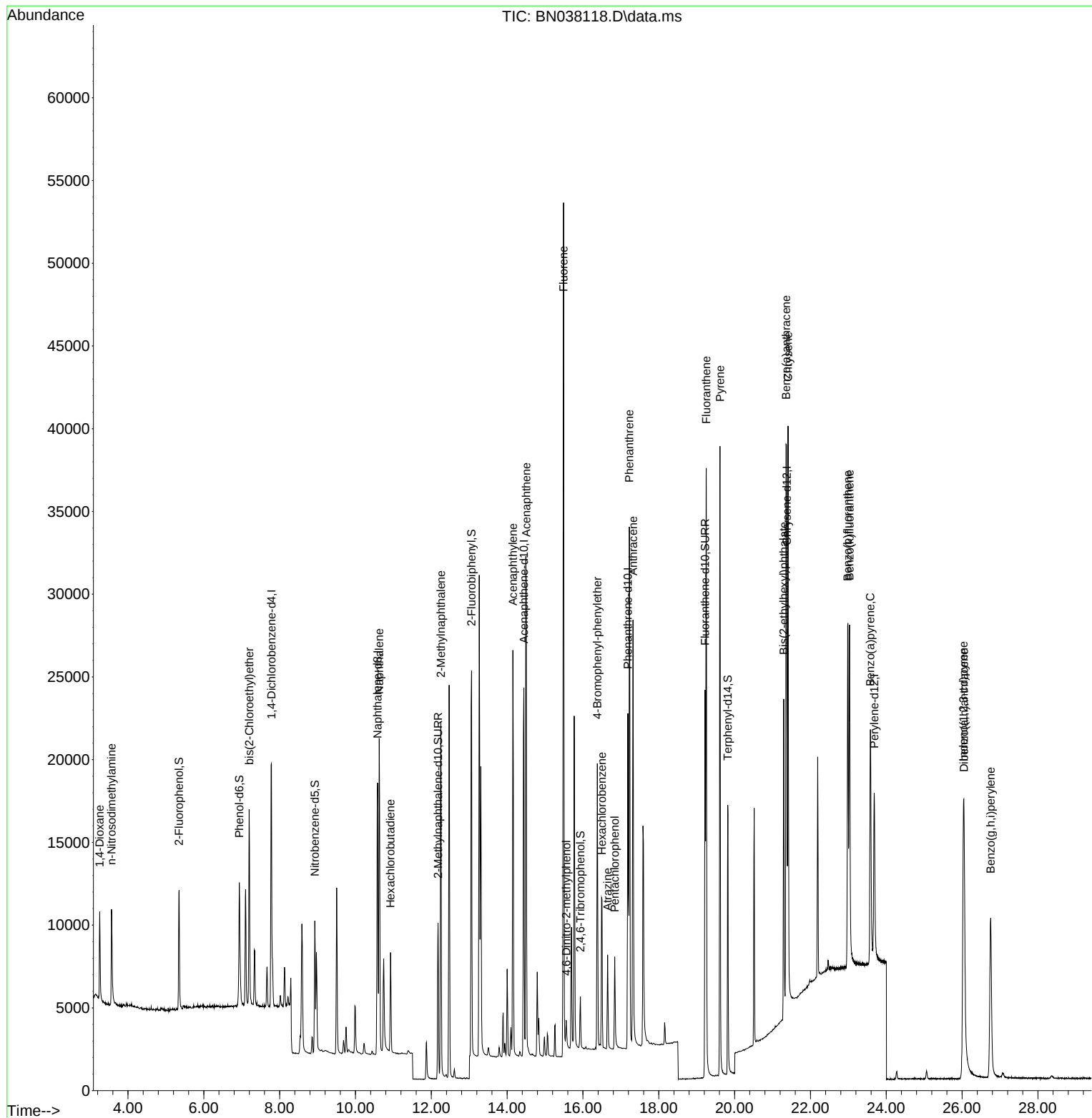
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.782  | 152  | 7698     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.584 | 136  | 23240    | 0.400 | ng    | 0.01     |
| 13) Acenaphthene-d10          | 14.441 | 164  | 13297    | 0.400 | ng    | 0.01     |
| 19) Phenanthrene-d10          | 17.186 | 188  | 26273    | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 21.375 | 240  | 18729    | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.683 | 264  | 15660    | 0.400 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.348  | 112  | 6665     | 0.368 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.937  | 99   | 7743     | 0.351 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.929  | 82   | 6617     | 0.353 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 12.177 | 152  | 13607    | 0.410 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.932 | 330  | 1861     | 0.340 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 13.062 | 172  | 21897    | 0.411 | ng    | 0.01     |
| 27) Fluoranthene-d10          | 19.220 | 212  | 25766    | 0.389 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.819 | 244  | 17430    | 0.428 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
|                               |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.254  | 88   | 3503     | 0.440 | ng    | 98       |
| 3) n-Nitrosodimethylamine     | 3.564  | 42   | 4071     | 0.398 | ng    | # 96     |
| 6) bis(2-Chloroethyl)ether    | 7.197  | 93   | 9255     | 0.427 | ng    | 100      |
| 9) Naphthalene                | 10.626 | 128  | 26051    | 0.407 | ng    | 99       |
| 10) Hexachlorobutadiene       | 10.925 | 225  | 4702     | 0.435 | ng    | # 98     |
| 12) 2-Methylnaphthalene       | 12.253 | 142  | 16372    | 0.384 | ng    | 98       |
| 16) Acenaphthylene            | 14.152 | 152  | 27388    | 0.455 | ng    | 100      |
| 17) Acenaphthene              | 14.505 | 154  | 16777    | 0.398 | ng    | 99       |
| 18) Fluorene                  | 15.489 | 166  | 22859    | 0.414 | ng    | 99       |
| 20) 4,6-Dinitro-2-methylph... | 15.560 | 198  | 1138     | 0.411 | ng    | 90       |
| 21) 4-Bromophenyl-phenylether | 16.379 | 248  | 6886     | 0.400 | ng    | 99       |
| 22) Hexachlorobenzene         | 16.503 | 284  | 8349     | 0.426 | ng    | 98       |
| 23) Atrazine                  | 16.652 | 200  | 4672     | 0.370 | ng    | 99       |
| 24) Pentachlorophenol         | 16.838 | 266  | 2963     | 0.351 | ng    | 97       |
| 25) Phenanthrene              | 17.223 | 178  | 33992    | 0.408 | ng    | 99       |
| 26) Anthracene                | 17.322 | 178  | 29654    | 0.406 | ng    | 99       |
| 28) Fluoranthene              | 19.253 | 202  | 35401    | 0.380 | ng    | 99       |
| 30) Pyrene                    | 19.615 | 202  | 35647    | 0.422 | ng    | 100      |
| 32) Benzo(a)anthracene        | 21.358 | 228  | 26833    | 0.402 | ng    | 100      |
| 33) Chrysene                  | 21.411 | 228  | 31031    | 0.428 | ng    | 100      |
| 34) Bis(2-ethylhexyl)phtha... | 21.295 | 149  | 12587    | 0.358 | ng    | 99       |
| 36) Indeno(1,2,3-cd)pyrene    | 26.037 | 276  | 26115    | 0.406 | ng    | 98       |
| 37) Benzo(b)fluoranthene      | 22.984 | 252  | 27124    | 0.405 | ng    | 97       |
| 38) Benzo(k)fluoranthene      | 23.031 | 252  | 29583    | 0.439 | ng    | 98       |
| 39) Benzo(a)pyrene            | 23.581 | 252  | 23400    | 0.437 | ng    | # 95     |
| 40) Dibenzo(a,h)anthracene    | 26.051 | 278  | 19931    | 0.403 | ng    | 97       |
| 41) Benzo(g,h,i)perylene      | 26.756 | 276  | 22180    | 0.392 | ng    | 98       |
| -----                         |        |      |          |       |       |          |

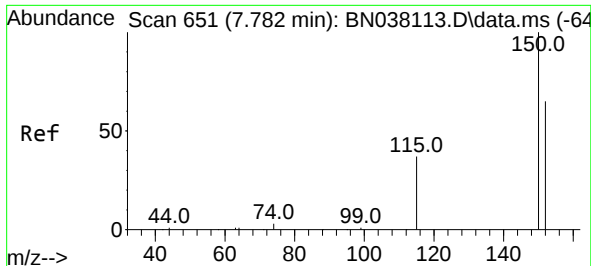
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN102825\  
Data File : BN038118.D  
Acq On : 28 Oct 2025 17:51  
Operator : RC/JU  
Sample : SSTDICV0.4  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN102825

Quant Time: Oct 29 17:07:11 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN102825.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Oct 29 13:09:46 2025  
Response via : Initial Calibration

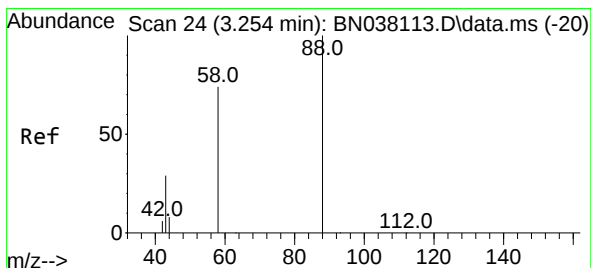
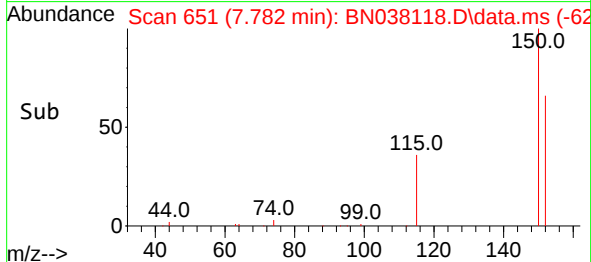
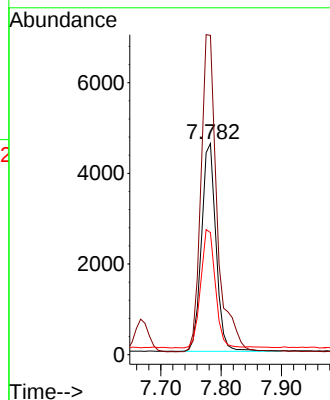
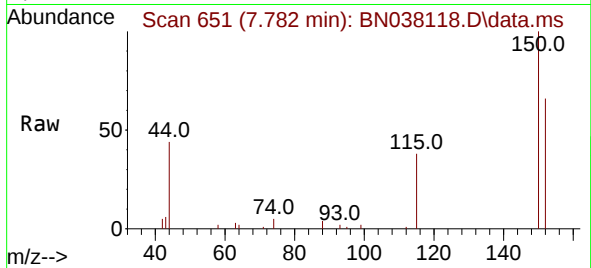




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 0.400 ng  
 RT: 7.782 min Scan# 61  
 Delta R.T. 0.007 min  
 Lab File: BN038118.D  
 Acq: 28 Oct 2025 17:51

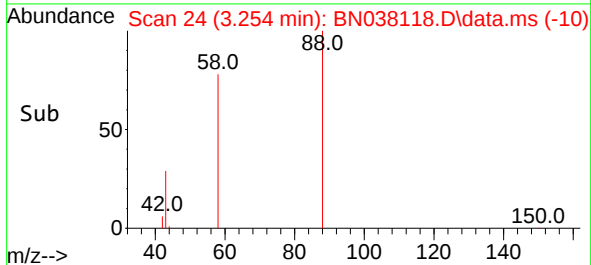
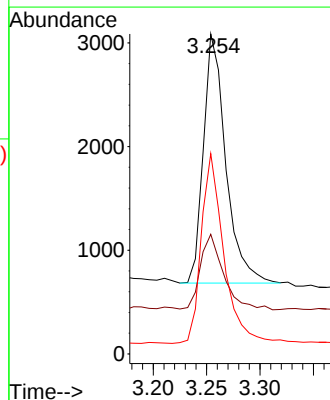
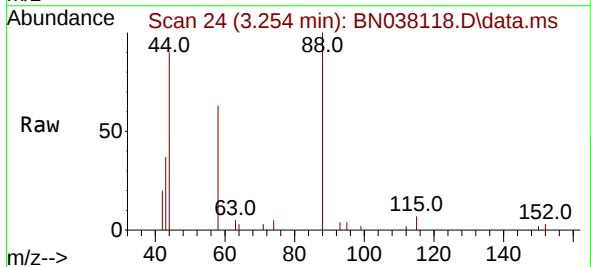
Instrument :  
 BNA\_N  
 ClientSampleId :  
 ICVBN102825

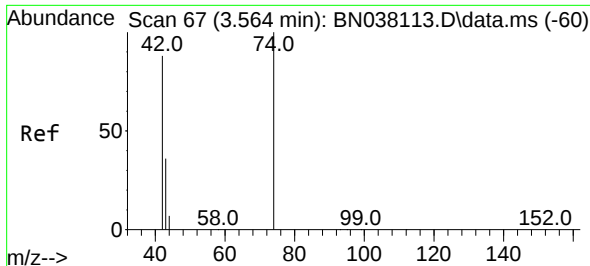
Tgt Ion:152 Resp: 7698  
 Ion Ratio Lower Upper  
 152 100  
 150 151.3 122.3 183.5  
 115 57.8 47.4 71.0



#2  
 1,4-Dioxane  
 Concen: 0.440 ng  
 RT: 3.254 min Scan# 24  
 Delta R.T. 0.000 min  
 Lab File: BN038118.D  
 Acq: 28 Oct 2025 17:51

Tgt Ion: 88 Resp: 3503  
 Ion Ratio Lower Upper  
 88 100  
 43 31.0 24.3 36.5  
 58 77.1 60.4 90.6

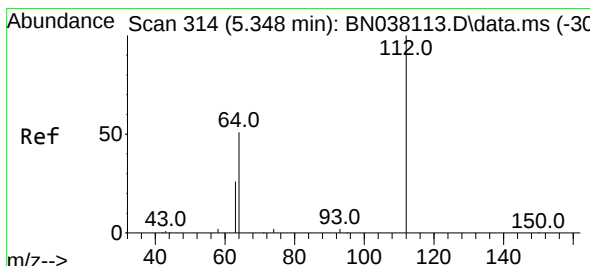
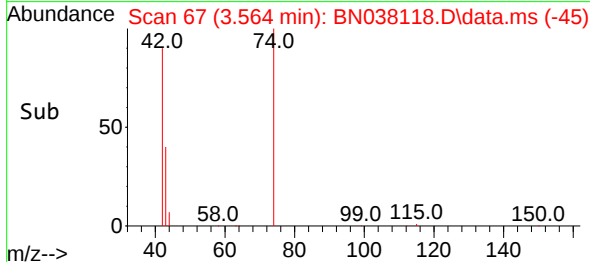
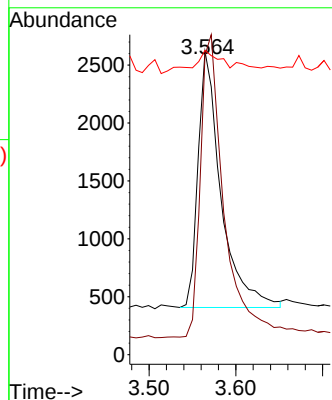
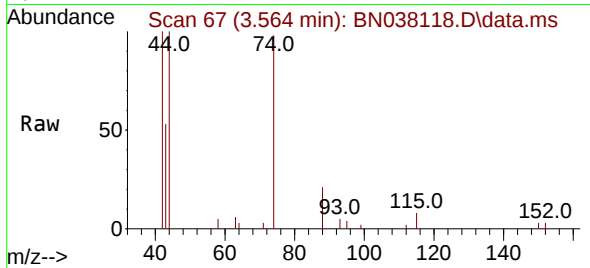




#3  
n-Nitrosodimethylamine  
Concen: 0.398 ng  
RT: 3.564 min Scan# 61  
Delta R.T. 0.007 min  
Lab File: BN038118.D  
Acq: 28 Oct 2025 17:51

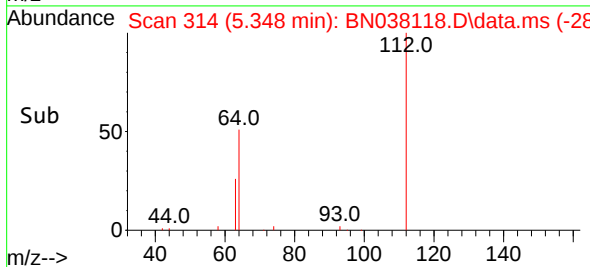
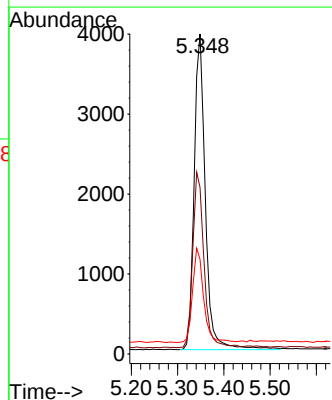
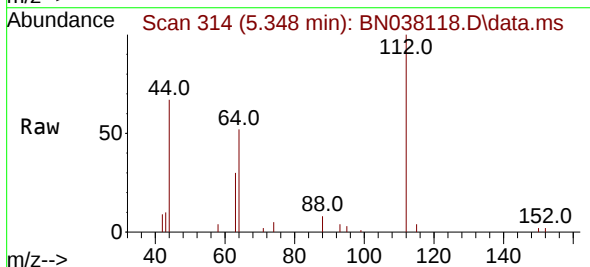
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ClientSampleId :  
ICVBN102825

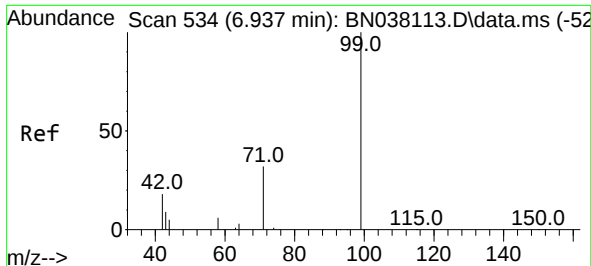
Tgt Ion: 42 Resp: 4071  
Ion Ratio Lower Upper  
42 100  
74 124.8 96.8 145.2  
44 10.5 5.3 7.9#



#4  
2-Fluorophenol  
Concen: 0.368 ng  
RT: 5.348 min Scan# 314  
Delta R.T. 0.000 min  
Lab File: BN038118.D  
Acq: 28 Oct 2025 17:51

Tgt Ion: 112 Resp: 6665  
Ion Ratio Lower Upper  
112 100  
64 55.4 45.4 68.0  
63 29.1 23.2 34.8

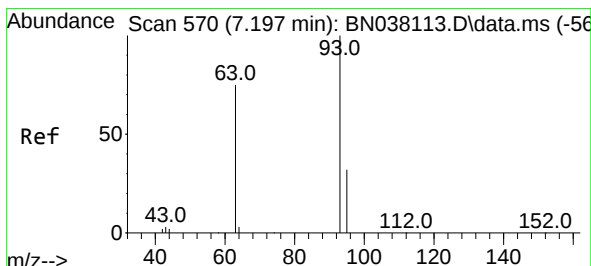
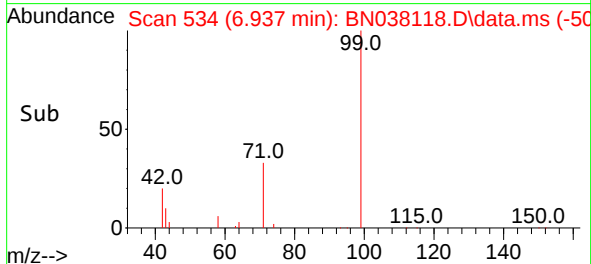
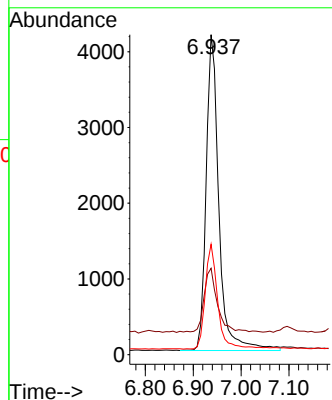
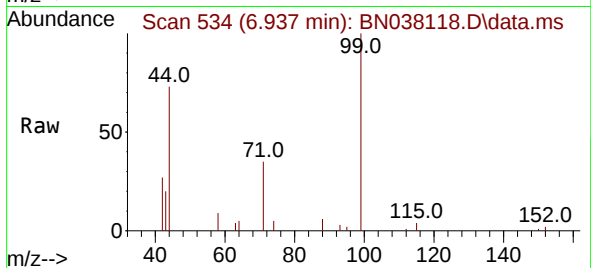




#5  
Phenol-d6  
Concen: 0.351 ng  
RT: 6.937 min Scan# 51  
Delta R.T. 0.000 min  
Lab File: BN038118.D  
Acq: 28 Oct 2025 17:51

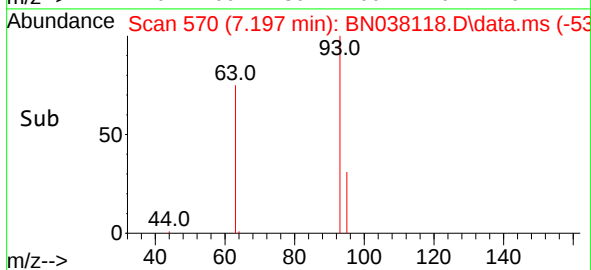
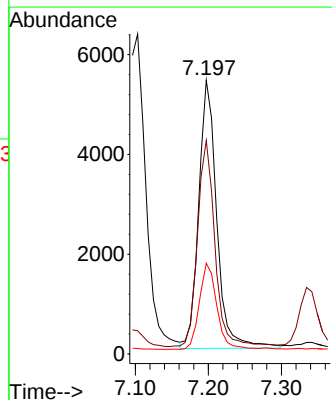
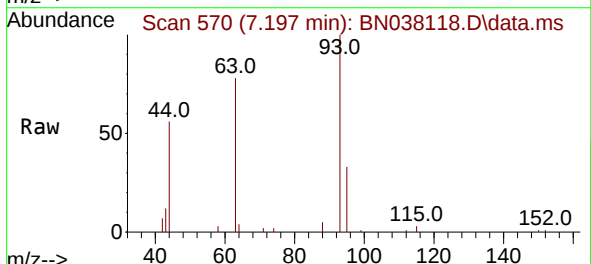
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN102825

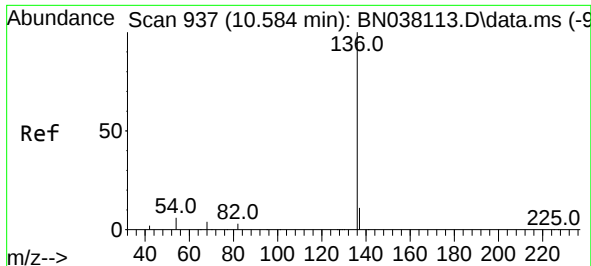
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 99    | Resp: | 7743  |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 21.1  | 16.6  | 24.8  |
| 71       | 33.2  | 25.4  | 38.2  |



#6  
bis(2-Chloroethyl)ether  
Concen: 0.427 ng  
RT: 7.197 min Scan# 570  
Delta R.T. 0.000 min  
Lab File: BN038118.D  
Acq: 28 Oct 2025 17:51

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 93    | Resp: | 9255  |
| Ion      | Ratio | Lower | Upper |
| 93       | 100   |       |       |
| 63       | 73.9  | 59.3  | 88.9  |
| 95       | 30.9  | 25.2  | 37.8  |

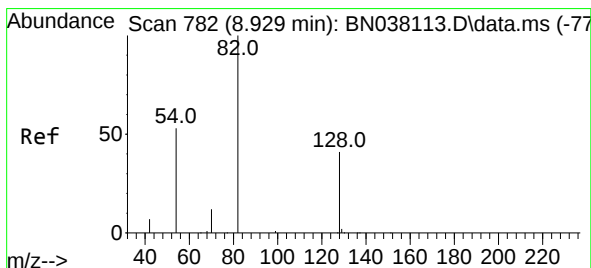
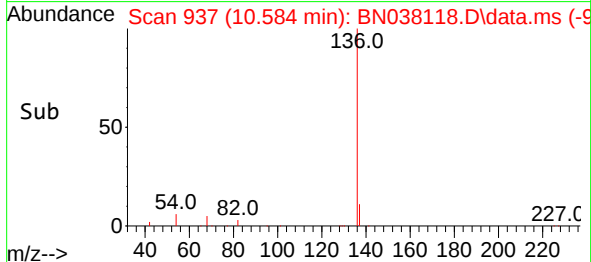
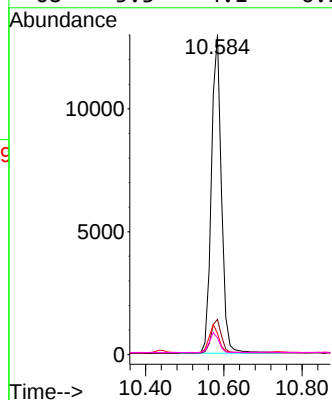
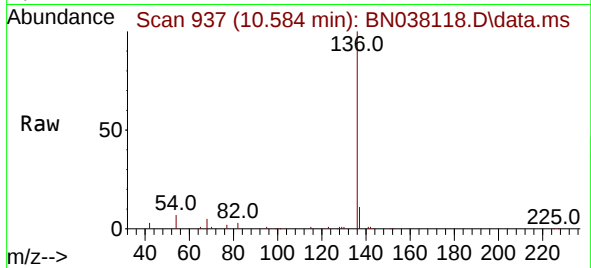




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.584 min Scan# 91  
Delta R.T. 0.011 min  
Lab File: BN038118.D  
Acq: 28 Oct 2025 17:51

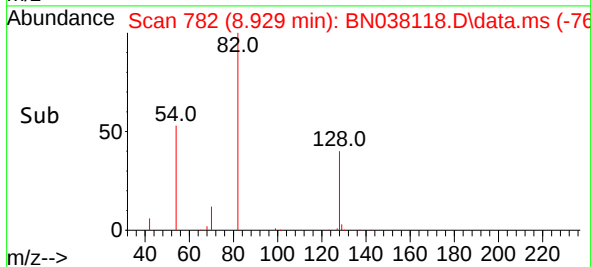
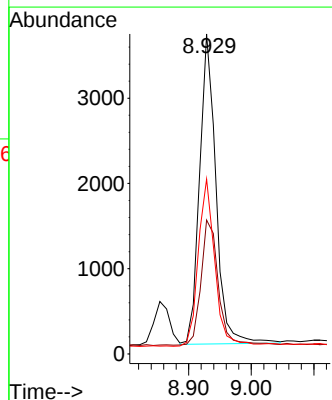
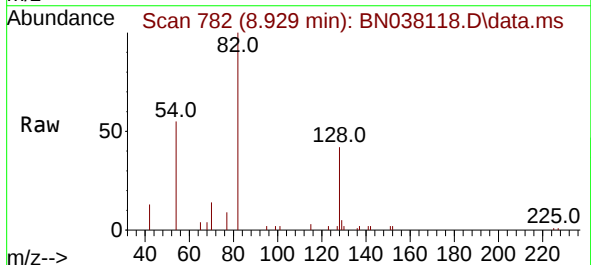
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN102825

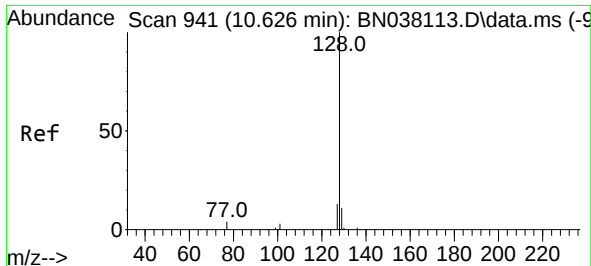
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 136   | Resp: | 23240 |
| Ion Ratio | Lower | Upper |       |
| 136       | 100   |       |       |
| 137       | 11.1  | 9.0   | 13.4  |
| 54        | 6.6   | 5.2   | 7.8   |
| 68        | 5.3   | 4.1   | 6.1   |



#8  
Nitrobenzene-d5  
Concen: 0.353 ng  
RT: 8.929 min Scan# 782  
Delta R.T. 0.000 min  
Lab File: BN038118.D  
Acq: 28 Oct 2025 17:51

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 82    | Resp: | 6617 |
| Ion Ratio | Lower | Upper |      |
| 82        | 100   |       |      |
| 128       | 41.8  | 34.1  | 51.1 |
| 54        | 54.7  | 43.5  | 65.3 |

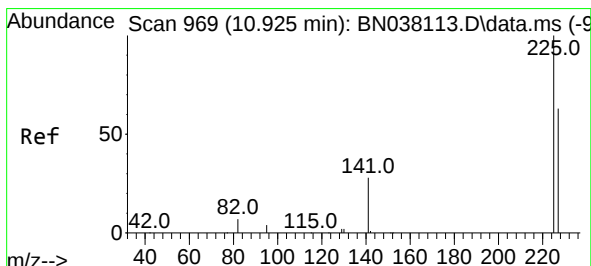
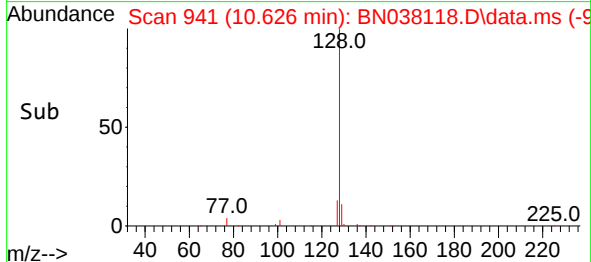
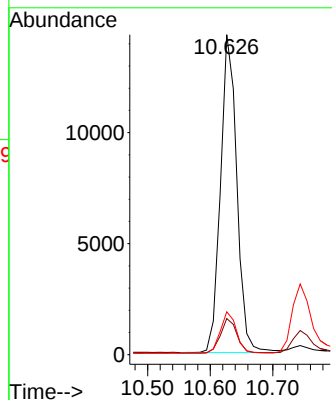
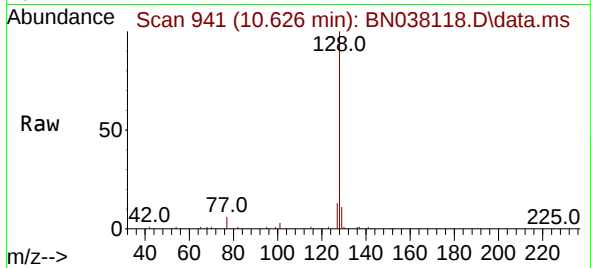




#9  
Naphthalene  
Concen: 0.407 ng  
RT: 10.626 min Scan# 941  
Delta R.T. 0.000 min  
Lab File: BN038118.D  
Acq: 28 Oct 2025 17:51

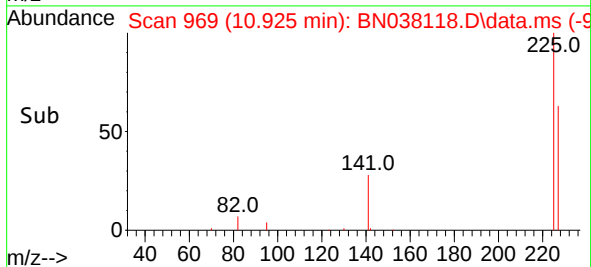
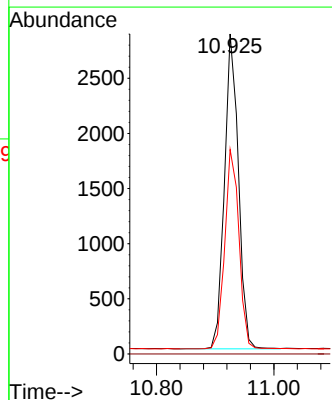
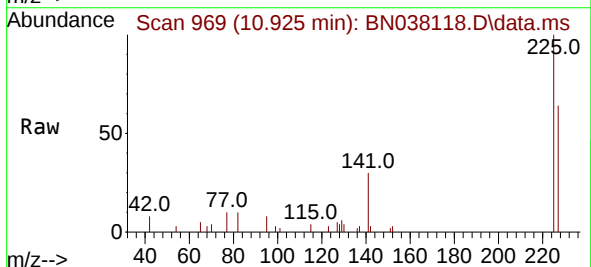
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN102825

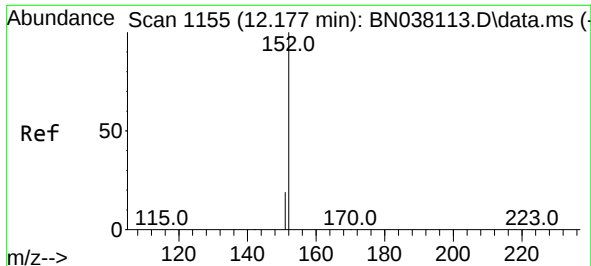
Tgt Ion:128 Resp: 26051  
Ion Ratio Lower Upper  
128 100  
129 11.3 9.1 13.7  
127 13.4 10.5 15.7



#10  
Hexachlorobutadiene  
Concen: 0.435 ng  
RT: 10.925 min Scan# 969  
Delta R.T. 0.000 min  
Lab File: BN038118.D  
Acq: 28 Oct 2025 17:51

Tgt Ion:225 Resp: 4702  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 64.4 50.3 75.5

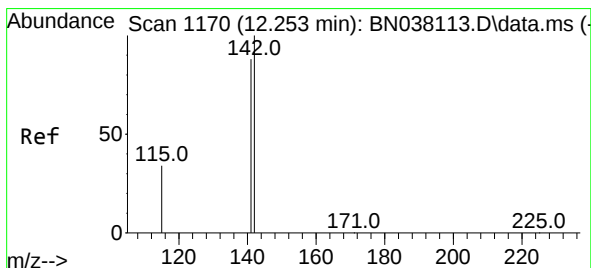
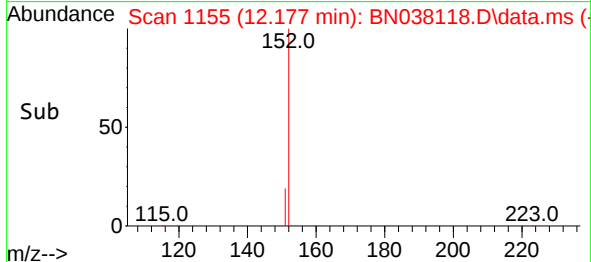
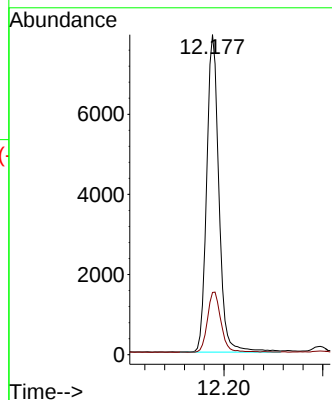
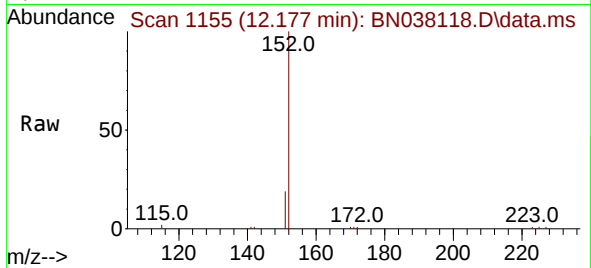




#11  
2-Methylnaphthalene-d10  
Concen: 0.410 ng  
RT: 12.177 min Scan# 1155  
Delta R.T. 0.000 min  
Lab File: BN038118.D  
Acq: 28 Oct 2025 17:51

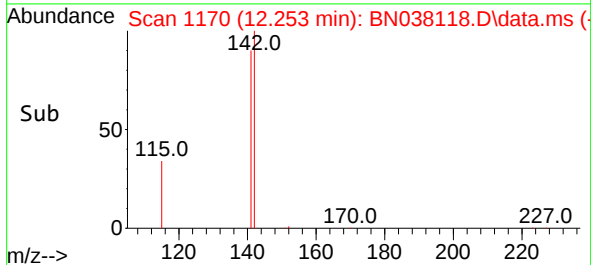
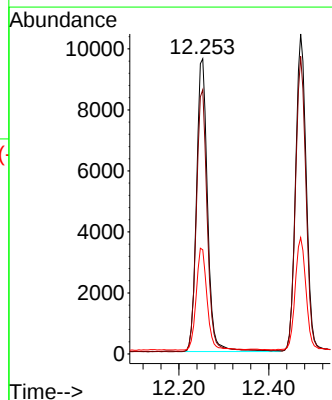
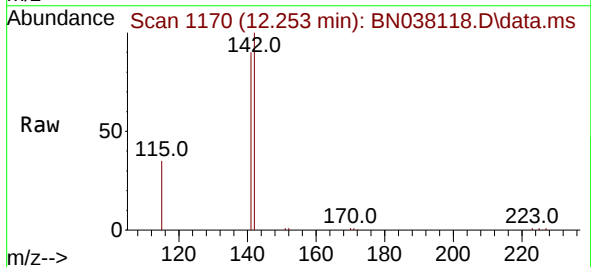
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN102825

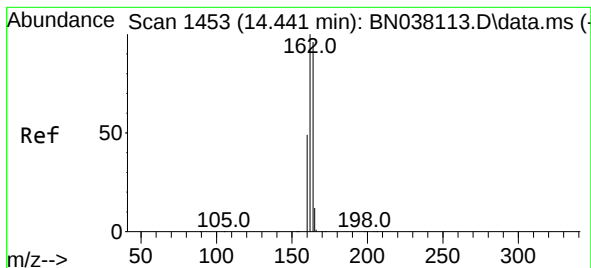
Tgt Ion:152 Resp: 13607  
Ion Ratio Lower Upper  
152 100  
151 21.0 16.8 25.2



#12  
2-Methylnaphthalene  
Concen: 0.384 ng  
RT: 12.253 min Scan# 1170  
Delta R.T. 0.005 min  
Lab File: BN038118.D  
Acq: 28 Oct 2025 17:51

Tgt Ion:142 Resp: 16372  
Ion Ratio Lower Upper  
142 100  
141 89.5 70.3 105.5  
115 35.3 27.8 41.6





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.441 min Scan# 1453

Delta R.T. 0.011 min

Lab File: BN038118.D

Acq: 28 Oct 2025 17:51

Instrument :

BNA\_N

ClientSampleId :

ICVBN102825

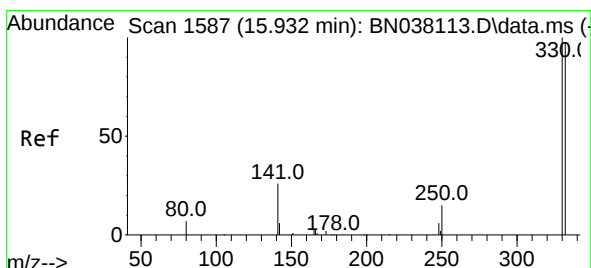
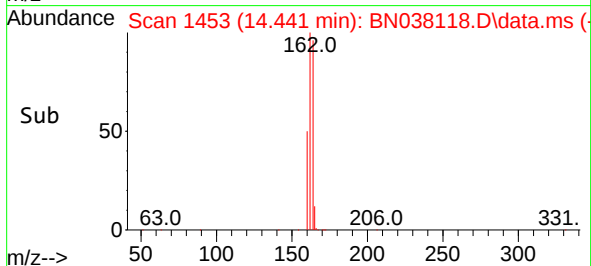
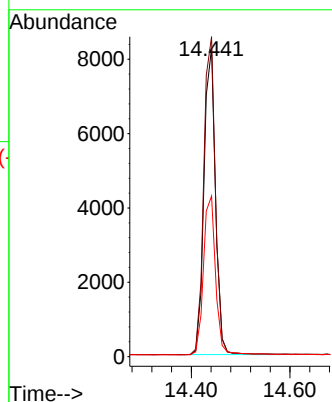
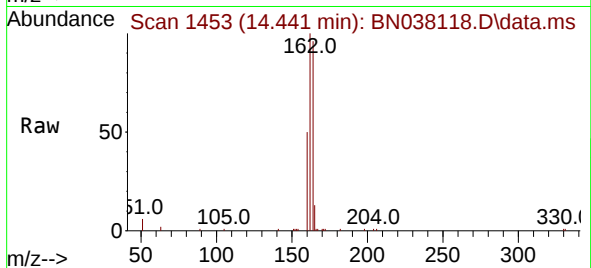
Tgt Ion:164 Resp: 13297

Ion Ratio Lower Upper

164 100

162 103.7 83.0 124.4

160 52.0 40.7 61.1



#14

2,4,6-Tribromophenol

Concen: 0.340 ng

RT: 15.932 min Scan# 1587

Delta R.T. 0.000 min

Lab File: BN038118.D

Acq: 28 Oct 2025 17:51

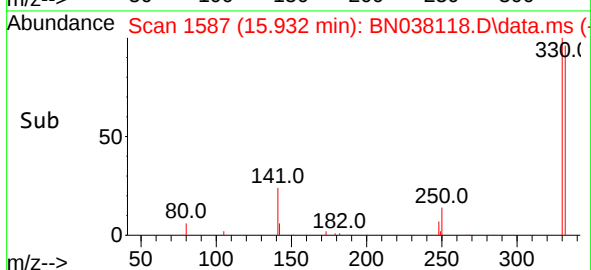
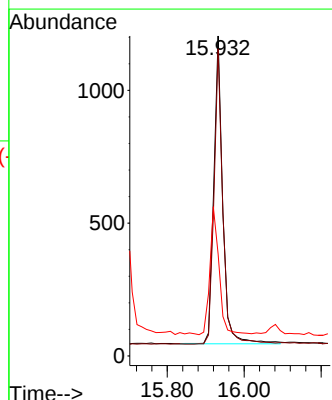
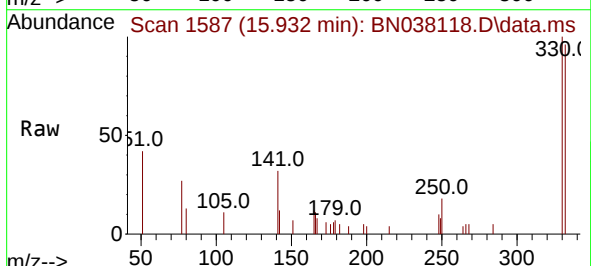
Tgt Ion:330 Resp: 1861

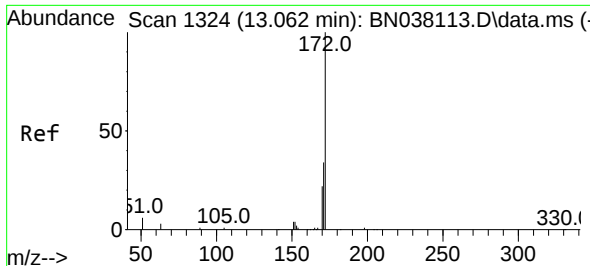
Ion Ratio Lower Upper

330 100

332 94.5 76.6 114.8

141 43.0 34.1 51.1

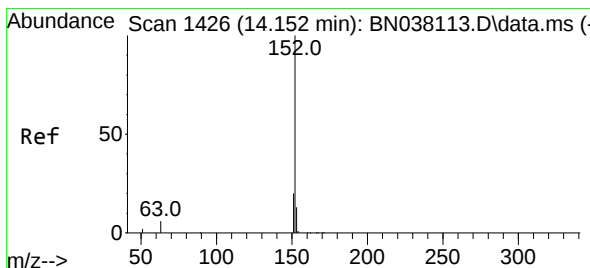
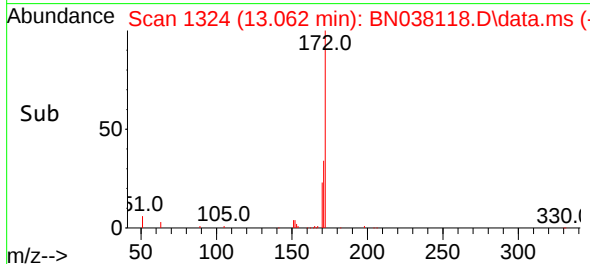
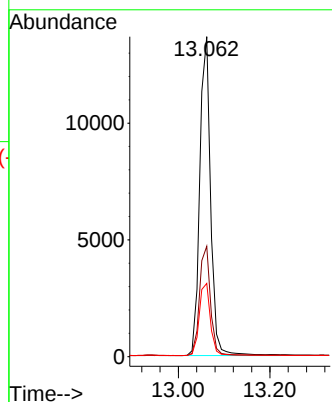
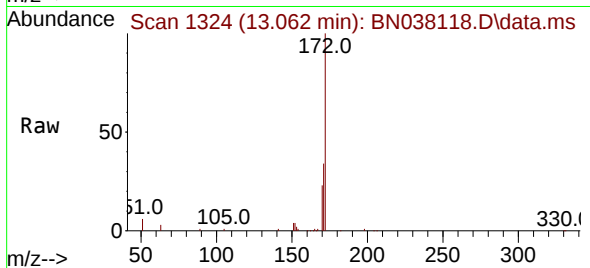




#15  
2-Fluorobiphenyl  
Concen: 0.411 ng  
RT: 13.062 min Scan# 1324  
Delta R.T. 0.011 min  
Lab File: BN038118.D  
Acq: 28 Oct 2025 17:51

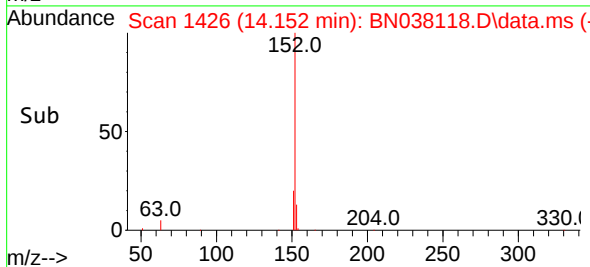
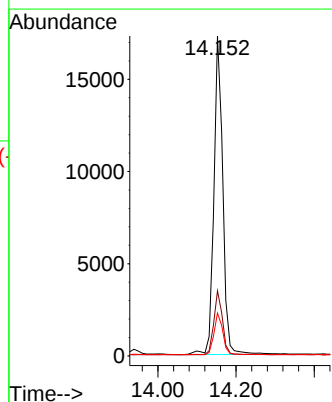
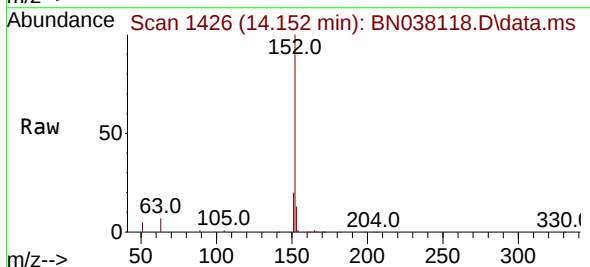
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN102825

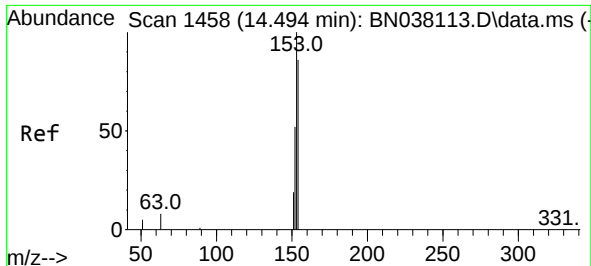
Tgt Ion:172 Resp: 21897  
Ion Ratio Lower Upper  
172 100  
171 34.5 27.8 41.6  
170 22.9 18.1 27.1



#16  
Acenaphthylene  
Concen: 0.455 ng  
RT: 14.152 min Scan# 1426  
Delta R.T. 0.000 min  
Lab File: BN038118.D  
Acq: 28 Oct 2025 17:51

Tgt Ion:152 Resp: 27388  
Ion Ratio Lower Upper  
152 100  
151 19.8 15.8 23.8  
153 13.2 10.2 15.2

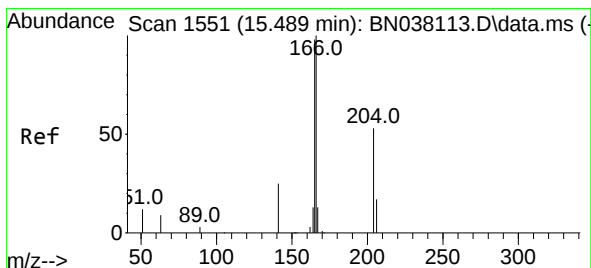
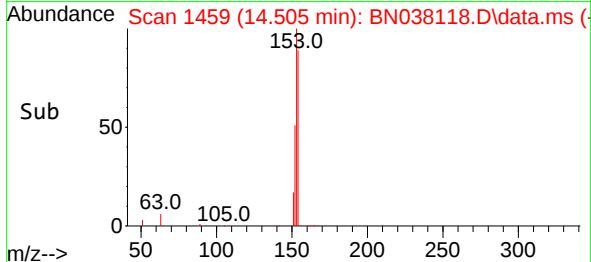
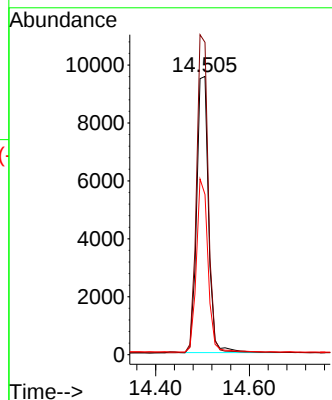
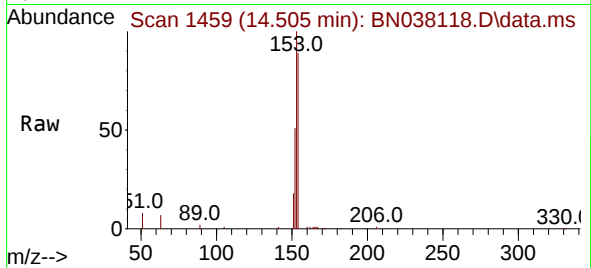




#17  
Acenaphthene  
Concen: 0.398 ng  
RT: 14.505 min Scan# 1459  
Delta R.T. 0.011 min  
Lab File: BN038118.D  
Acq: 28 Oct 2025 17:51

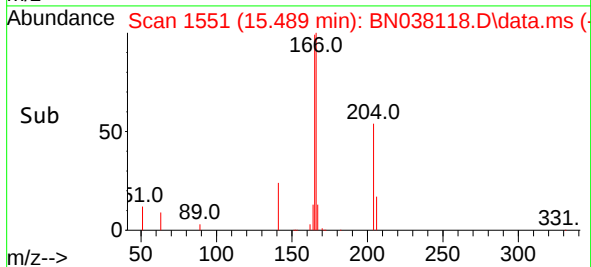
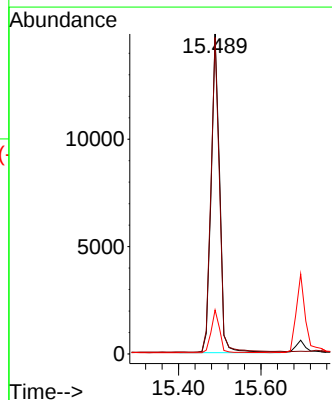
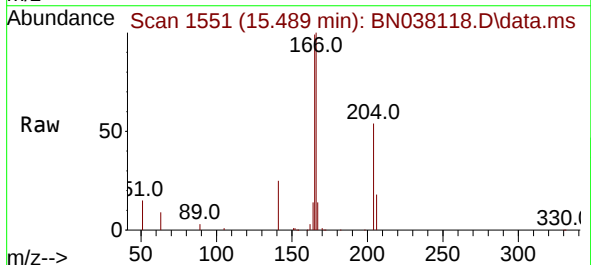
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN102825

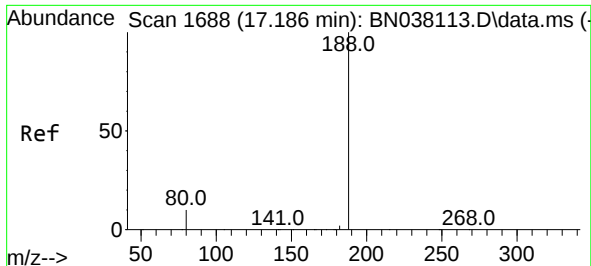
Tgt Ion:154 Resp: 16777  
Ion Ratio Lower Upper  
154 100  
153 113.6 90.0 135.0  
152 60.6 47.3 70.9



#18  
Fluorene  
Concen: 0.414 ng  
RT: 15.489 min Scan# 1551  
Delta R.T. -0.000 min  
Lab File: BN038118.D  
Acq: 28 Oct 2025 17:51

Tgt Ion:166 Resp: 22859  
Ion Ratio Lower Upper  
166 100  
165 99.9 79.0 118.4  
167 13.4 10.7 16.1

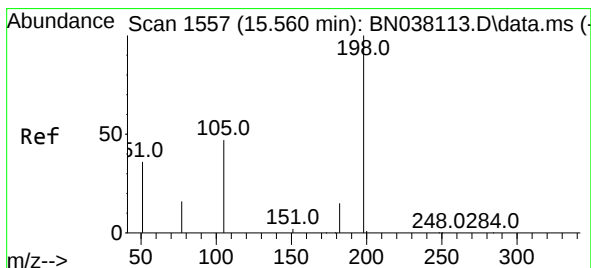
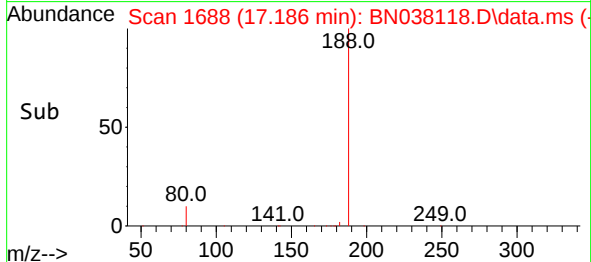
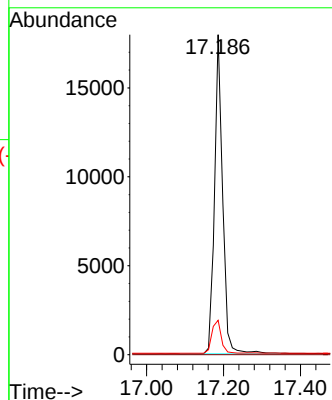
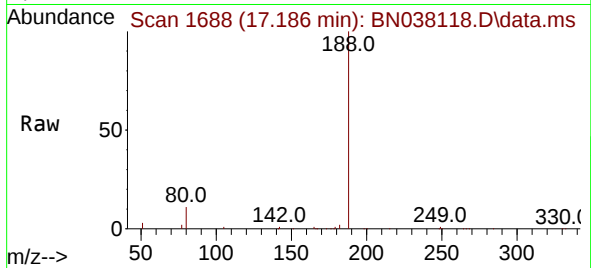




#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 17.186 min Scan# 1688  
Delta R.T. -0.000 min  
Lab File: BN038118.D  
Acq: 28 Oct 2025 17:51

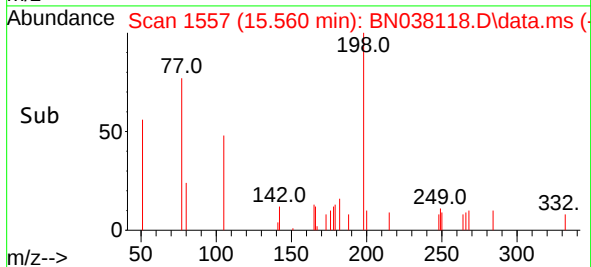
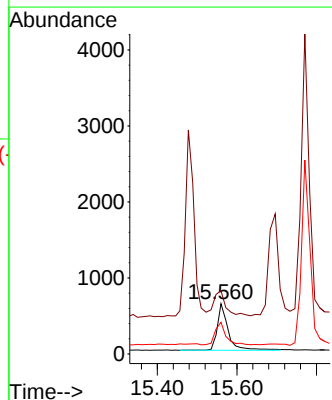
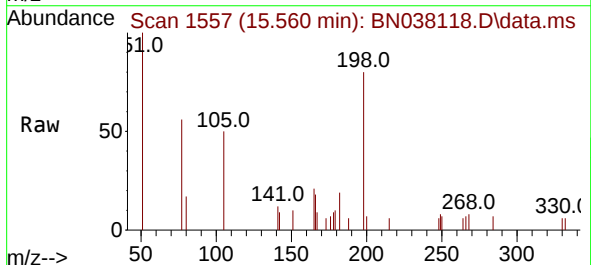
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BNA\_N  
ClientSampleId :  
ICVBN102825

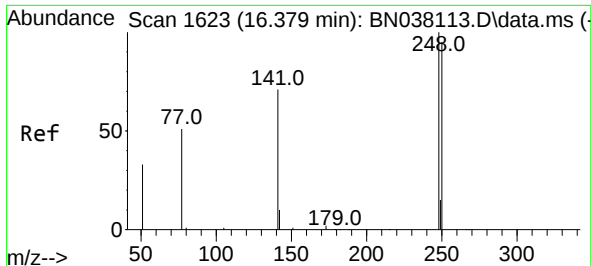
Tgt Ion:188 Resp: 26273  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 10.7 8.6 13.0



#20  
4,6-Dinitro-2-methylphenol  
Concen: 0.411 ng  
RT: 15.560 min Scan# 1557  
Delta R.T. -0.000 min  
Lab File: BN038118.D  
Acq: 28 Oct 2025 17:51

Tgt Ion:198 Resp: 1138  
Ion Ratio Lower Upper  
198 100  
51 125.7 88.9 133.3  
105 63.1 49.2 73.8

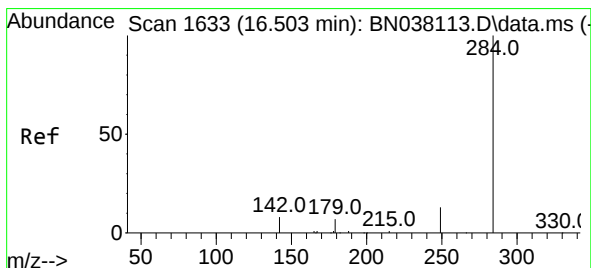
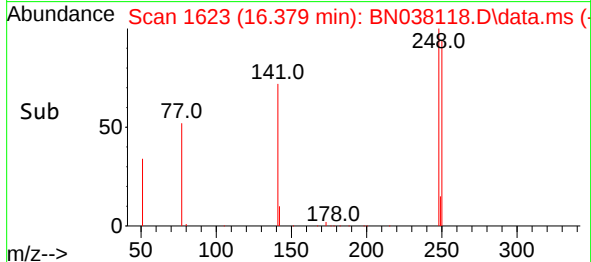
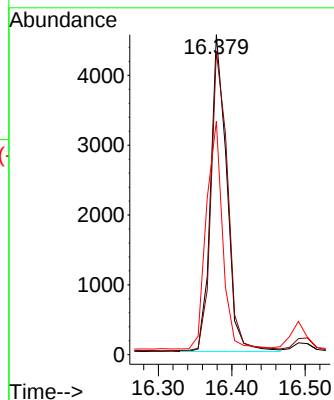
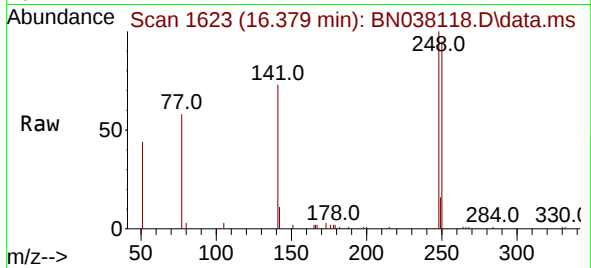




#21  
4-Bromophenyl-phenylether  
Concen: 0.400 ng  
RT: 16.379 min Scan# 1623  
Delta R.T. 0.000 min  
Lab File: BN038118.D  
Acq: 28 Oct 2025 17:51

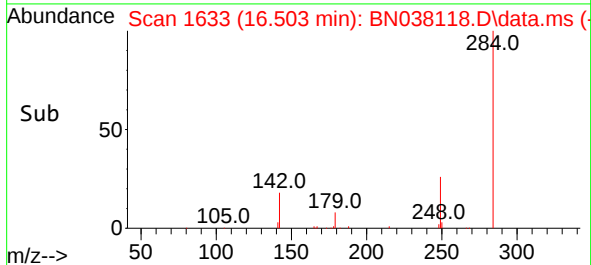
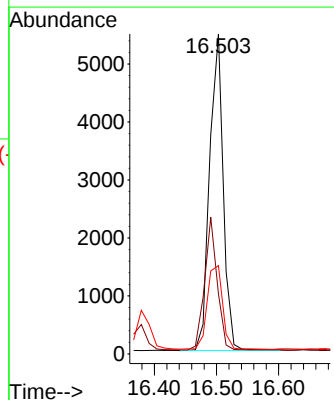
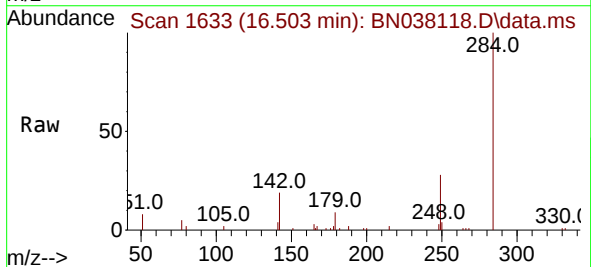
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN102825

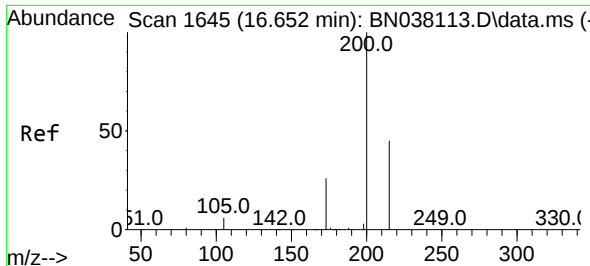
Tgt Ion:248 Resp: 6886  
Ion Ratio Lower Upper  
248 100  
250 94.8 76.2 114.2  
141 73.0 57.6 86.4



#22  
Hexachlorobenzene  
Concen: 0.426 ng  
RT: 16.503 min Scan# 1633  
Delta R.T. 0.000 min  
Lab File: BN038118.D  
Acq: 28 Oct 2025 17:51

Tgt Ion:284 Resp: 8349  
Ion Ratio Lower Upper  
284 100  
142 39.2 30.5 45.7  
249 30.0 23.5 35.3

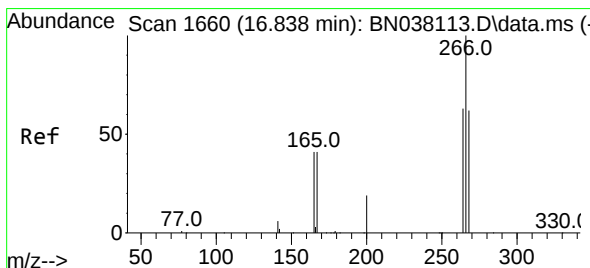
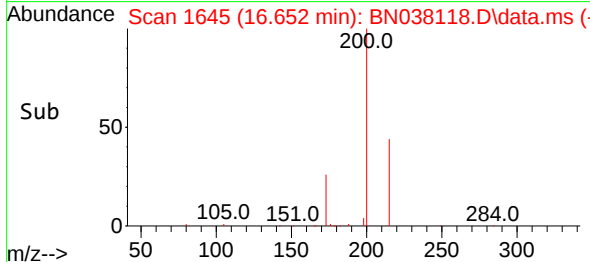
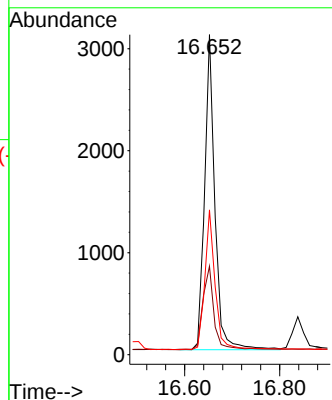
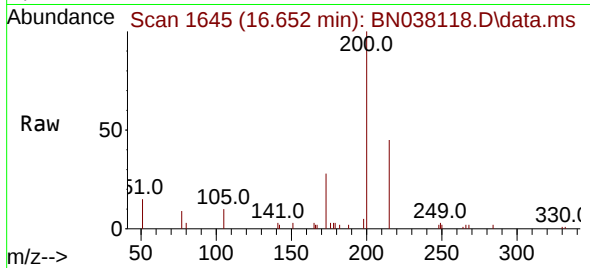




#23  
 Atrazine  
 Concen: 0.370 ng  
 RT: 16.652 min Scan# 1645  
 Delta R.T. 0.000 min  
 Lab File: BN038118.D  
 Acq: 28 Oct 2025 17:51

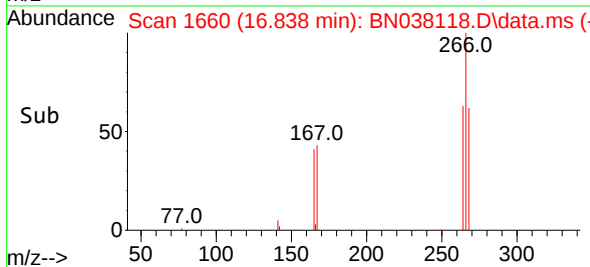
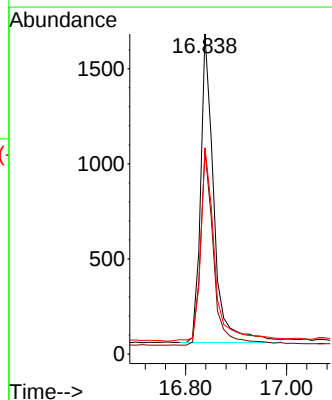
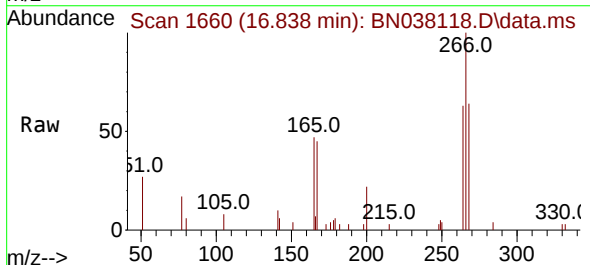
Instrument :  
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 ClientSampleId :  
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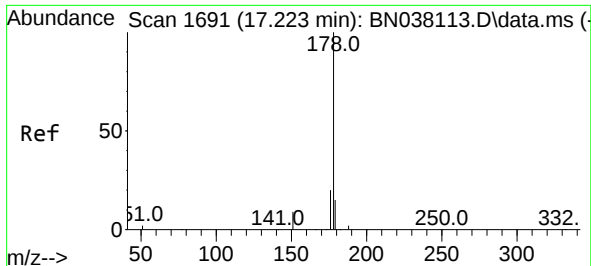
Tgt Ion:200 Resp: 4672  
 Ion Ratio Lower Upper  
 200 100  
 173 27.7 21.4 32.2  
 215 45.3 36.7 55.1



#24  
 Pentachlorophenol  
 Concen: 0.351 ng  
 RT: 16.838 min Scan# 1660  
 Delta R.T. 0.000 min  
 Lab File: BN038118.D  
 Acq: 28 Oct 2025 17:51

Tgt Ion:266 Resp: 2963  
 Ion Ratio Lower Upper  
 266 100  
 264 62.7 49.3 73.9  
 268 66.0 50.6 75.8

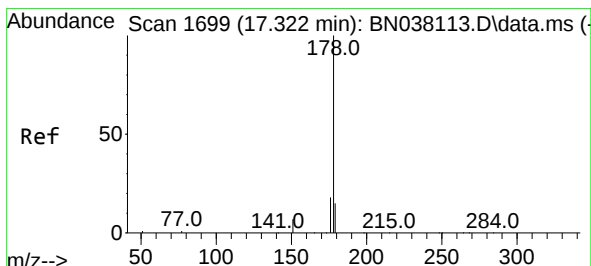
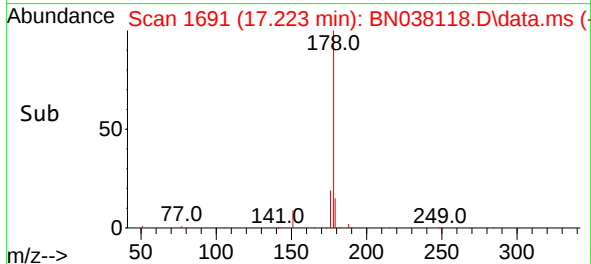
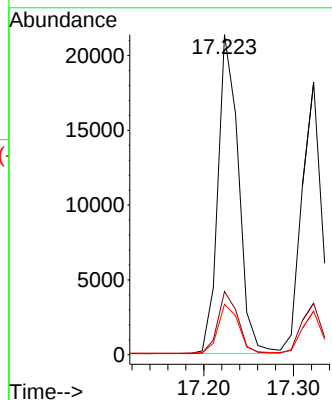
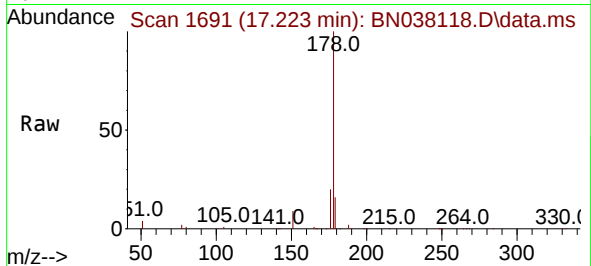




#25  
Phenanthrene  
Concen: 0.408 ng  
RT: 17.223 min Scan# 1691  
Delta R.T. 0.000 min  
Lab File: BN038118.D  
Acq: 28 Oct 2025 17:51

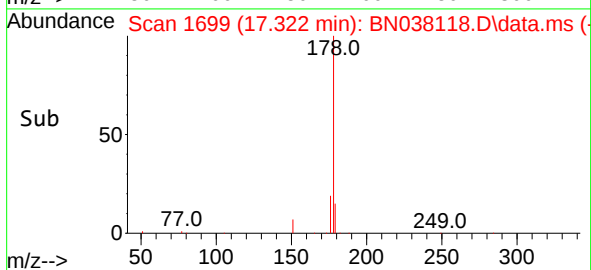
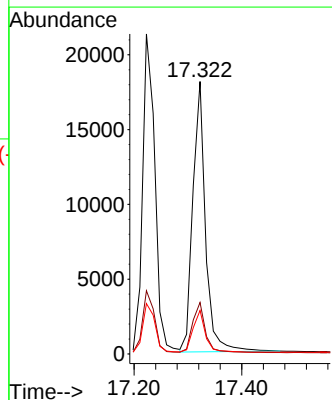
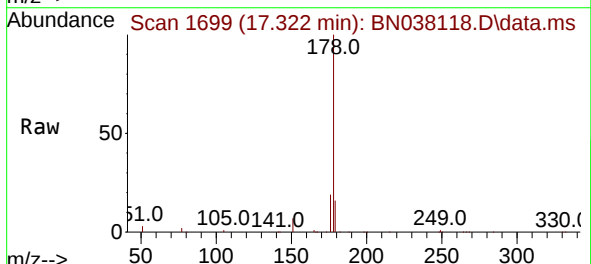
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN102825

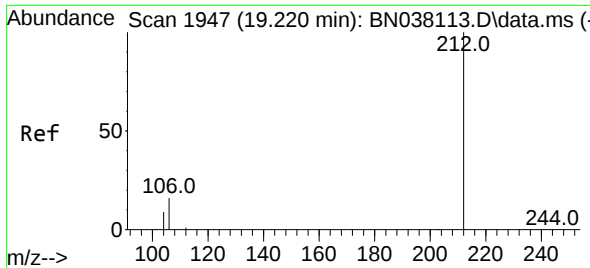
Tgt Ion:178 Resp: 33992  
Ion Ratio Lower Upper  
178 100  
176 19.2 15.5 23.3  
179 15.7 12.2 18.4



#26  
Anthracene  
Concen: 0.406 ng  
RT: 17.322 min Scan# 1699  
Delta R.T. 0.000 min  
Lab File: BN038118.D  
Acq: 28 Oct 2025 17:51

Tgt Ion:178 Resp: 29654  
Ion Ratio Lower Upper  
178 100  
176 18.8 14.9 22.3  
179 15.3 11.8 17.8

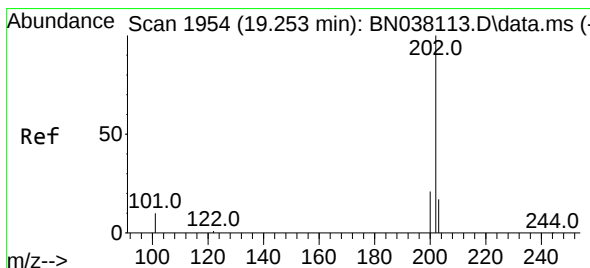
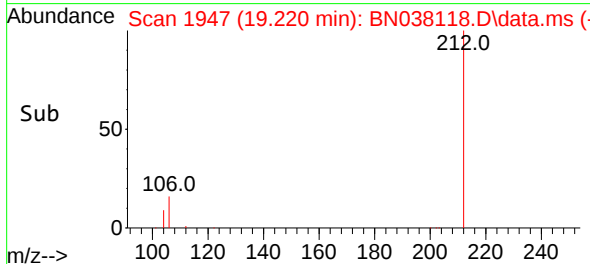
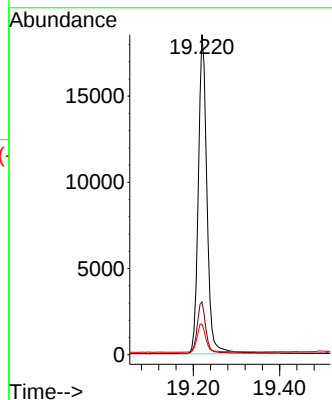
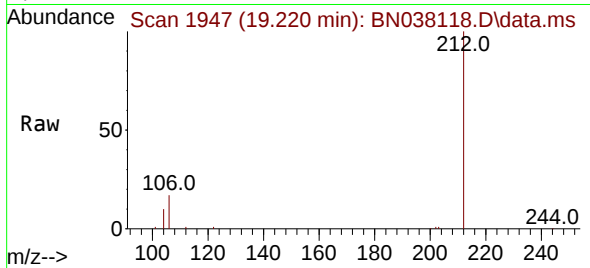




#27  
Fluoranthene-d10  
Concen: 0.389 ng  
RT: 19.220 min Scan# 1947  
Delta R.T. 0.000 min  
Lab File: BN038118.D  
Acq: 28 Oct 2025 17:51

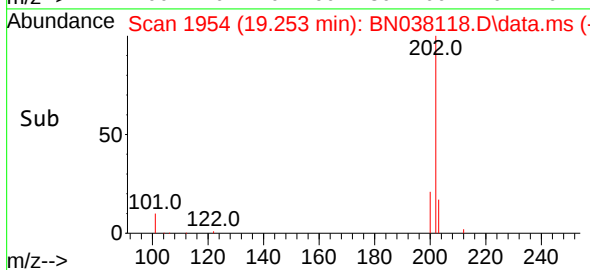
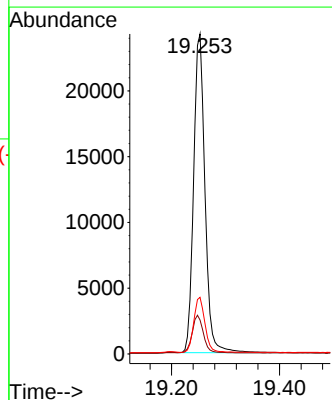
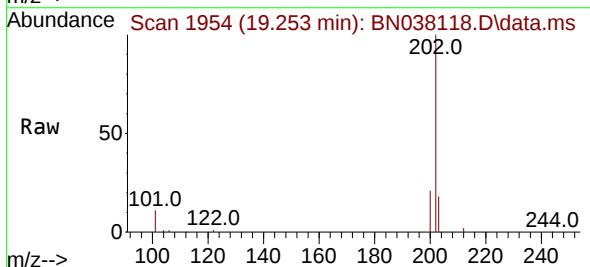
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN102825

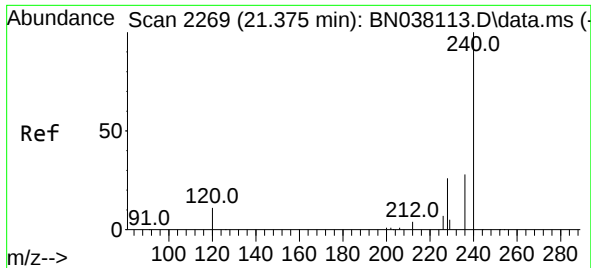
Tgt Ion:212 Resp: 25766  
Ion Ratio Lower Upper  
212 100  
106 16.1 12.6 19.0  
104 9.0 7.1 10.7



#28  
Fluoranthene  
Concen: 0.380 ng  
RT: 19.253 min Scan# 1954  
Delta R.T. 0.000 min  
Lab File: BN038118.D  
Acq: 28 Oct 2025 17:51

Tgt Ion:202 Resp: 35401  
Ion Ratio Lower Upper  
202 100  
101 11.5 9.4 14.2  
203 17.1 13.4 20.2

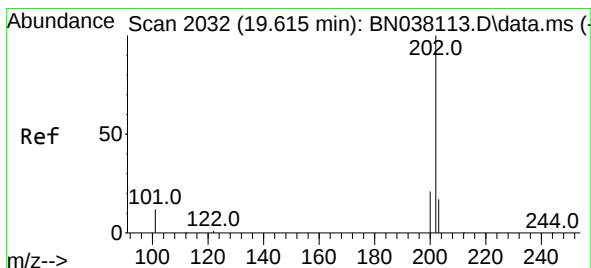
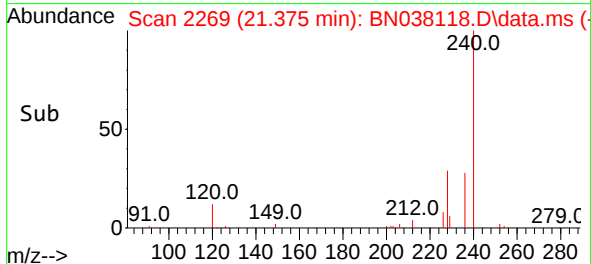
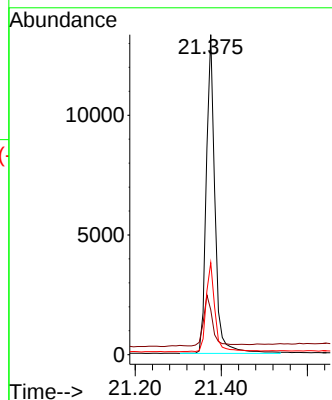
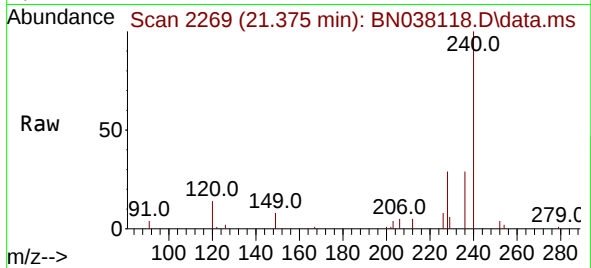




#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.375 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: BN038118.D  
Acq: 28 Oct 2025 17:51

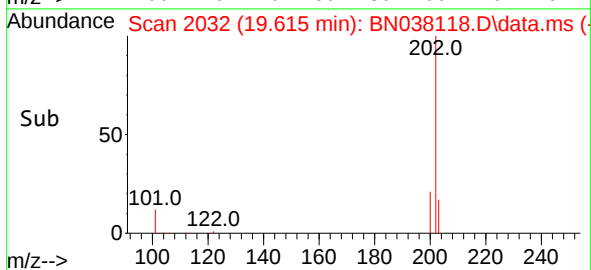
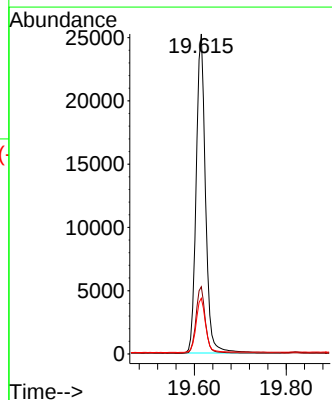
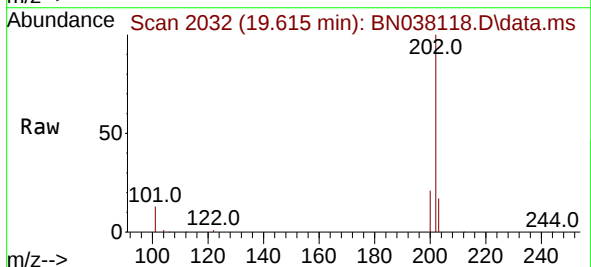
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN102825

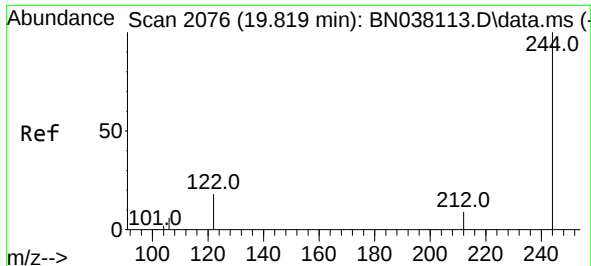
Tgt Ion:240 Resp: 18729  
Ion Ratio Lower Upper  
240 100  
120 14.0 10.7 16.1  
236 28.8 23.1 34.7



#30  
Pyrene  
Concen: 0.422 ng  
RT: 19.615 min Scan# 2032  
Delta R.T. 0.005 min  
Lab File: BN038118.D  
Acq: 28 Oct 2025 17:51

Tgt Ion:202 Resp: 35647  
Ion Ratio Lower Upper  
202 100  
200 21.0 16.7 25.1  
203 17.6 14.2 21.2

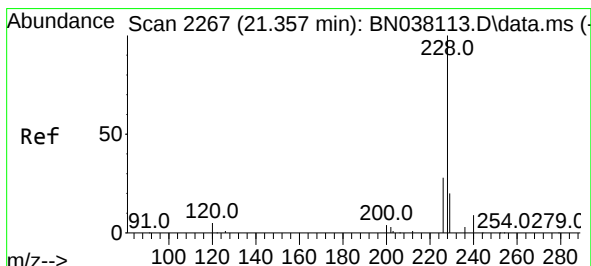
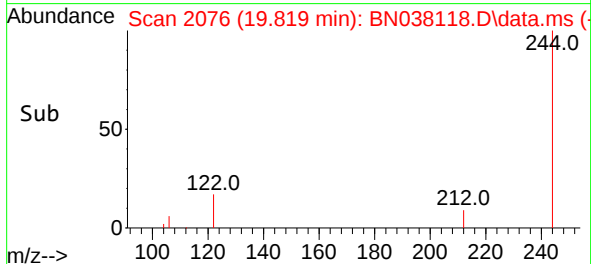
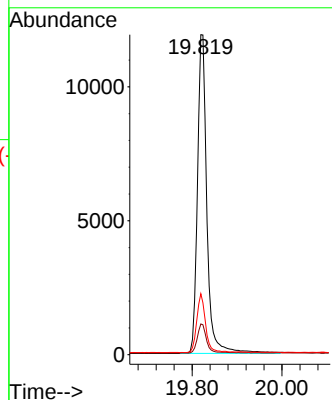
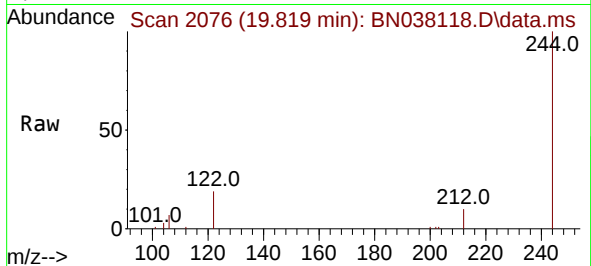




#31  
 Terphenyl-d14  
 Concen: 0.428 ng  
 RT: 19.819 min Scan# 2076  
 Delta R.T. 0.000 min  
 Lab File: BN038118.D  
 Acq: 28 Oct 2025 17:51

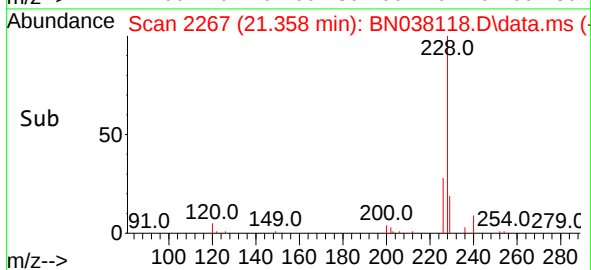
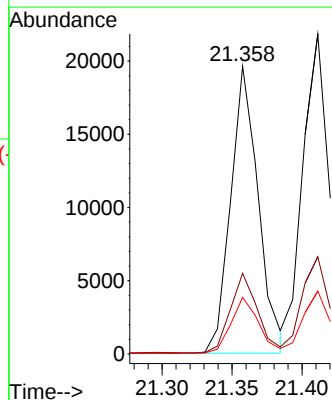
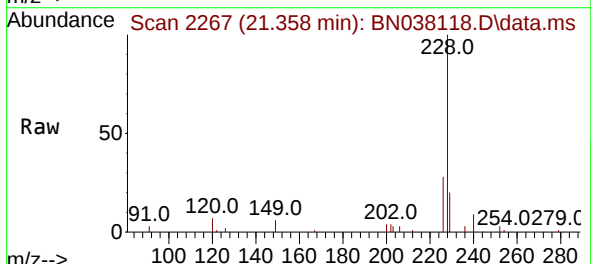
Instrument :  
 BNA\_N  
 ClientSampleId :  
 ICVBN102825

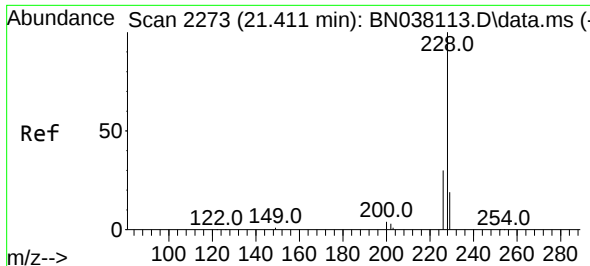
Tgt Ion:244 Resp: 17430  
 Ion Ratio Lower Upper  
 244 100  
 212 9.6 7.8 11.6  
 122 19.1 15.2 22.8



#32  
 Benzo(a)anthracene  
 Concen: 0.402 ng  
 RT: 21.358 min Scan# 2267  
 Delta R.T. 0.000 min  
 Lab File: BN038118.D  
 Acq: 28 Oct 2025 17:51

Tgt Ion:228 Resp: 26833  
 Ion Ratio Lower Upper  
 228 100  
 226 28.0 22.2 33.4  
 229 19.7 15.8 23.8

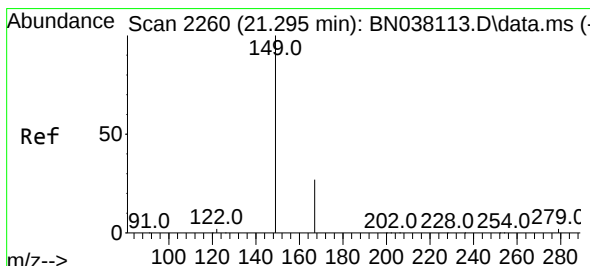
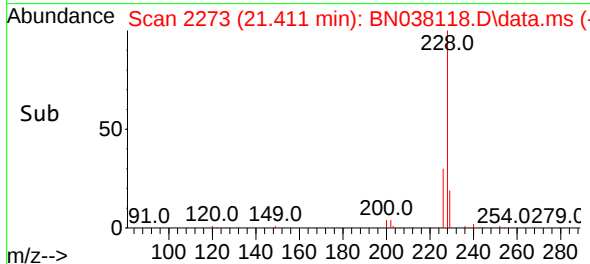
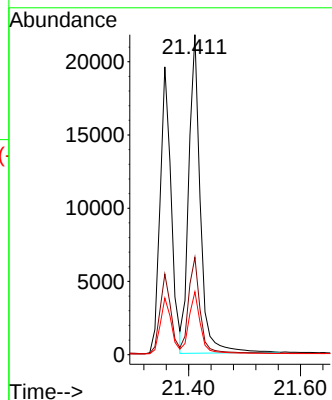
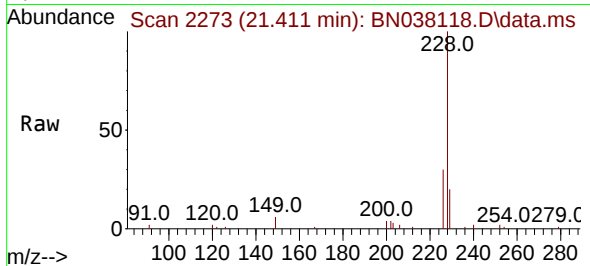




#33  
Chrysene  
Concen: 0.428 ng  
RT: 21.411 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: BN038118.D  
Acq: 28 Oct 2025 17:51

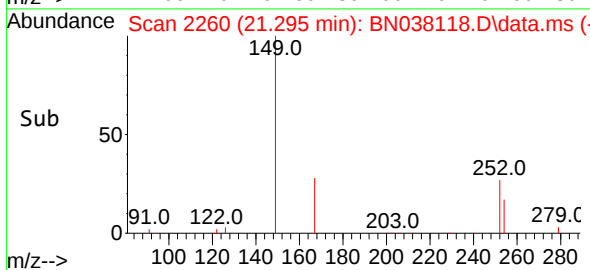
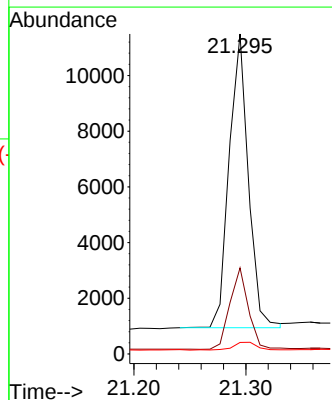
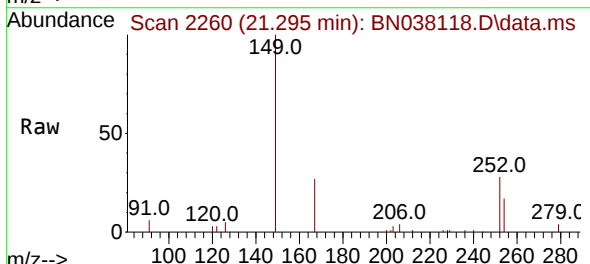
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN102825

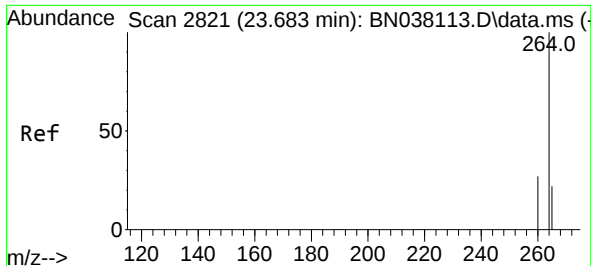
Tgt Ion:228 Resp: 31031  
Ion Ratio Lower Upper  
228 100  
226 30.4 24.3 36.5  
229 19.6 15.7 23.5



#34  
Bis(2-ethylhexyl)phthalate  
Concen: 0.358 ng  
RT: 21.295 min Scan# 2260  
Delta R.T. 0.000 min  
Lab File: BN038118.D  
Acq: 28 Oct 2025 17:51

Tgt Ion:149 Resp: 12587  
Ion Ratio Lower Upper  
149 100  
167 27.0 21.1 31.7  
279 3.4 2.9 4.3

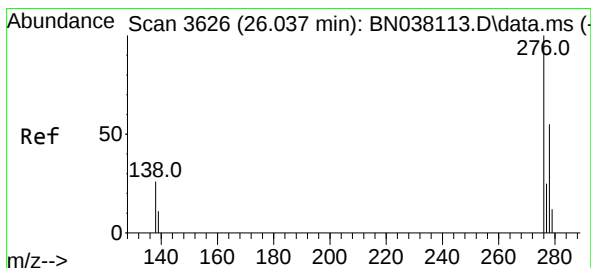
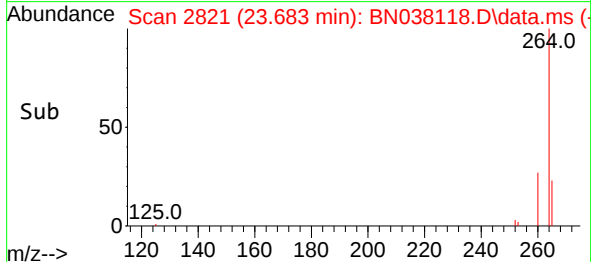
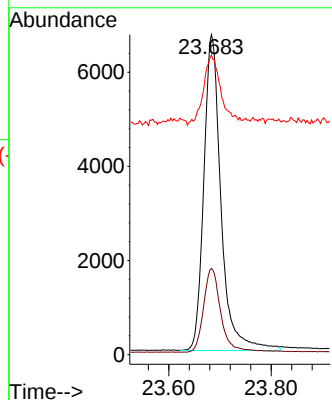
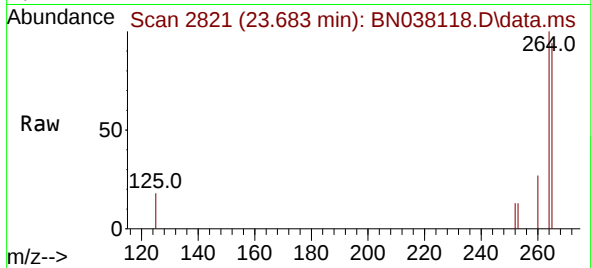




#35  
 Perylene-d12  
 Concen: 0.400 ng  
 RT: 23.683 min Scan# 21  
 Delta R.T. 0.003 min  
 Lab File: BN038118.D  
 Acq: 28 Oct 2025 17:51

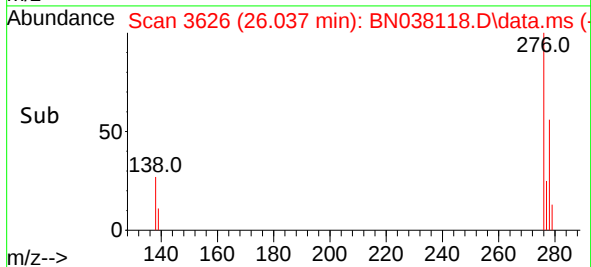
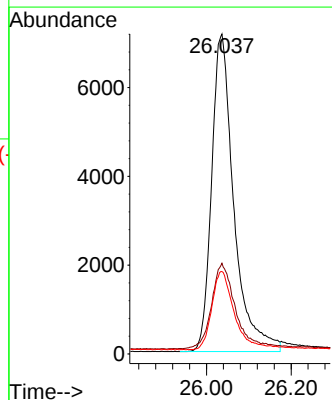
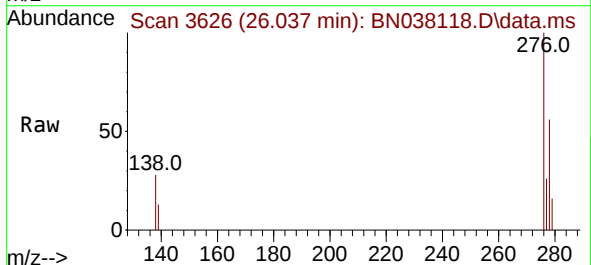
Instrument :  
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 ClientSampleId :  
 ICVBN102825

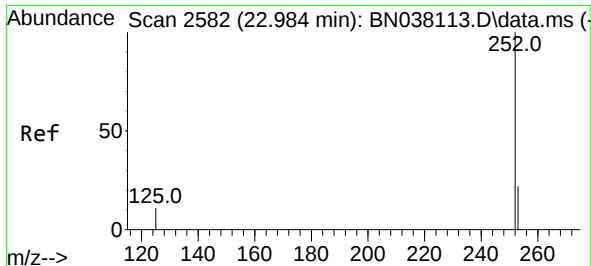
Tgt Ion:264 Resp: 15660  
 Ion Ratio Lower Upper  
 264 100  
 260 27.0 21.8 32.8  
 265 93.6 68.6 102.8



#36  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.406 ng  
 RT: 26.037 min Scan# 3626  
 Delta R.T. 0.003 min  
 Lab File: BN038118.D  
 Acq: 28 Oct 2025 17:51

Tgt Ion:276 Resp: 26115  
 Ion Ratio Lower Upper  
 276 100  
 138 27.9 21.4 32.0  
 277 24.8 19.2 28.8

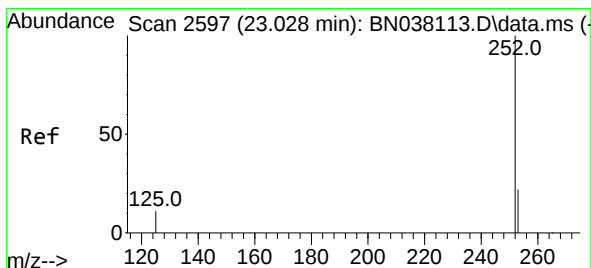
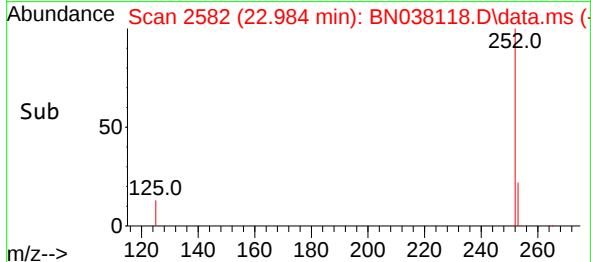
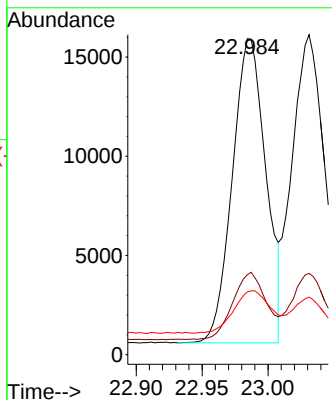
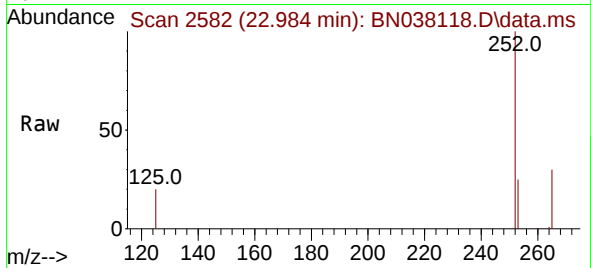




#37  
Benzo(b)fluoranthene  
Concen: 0.405 ng  
RT: 22.984 min Scan# 2582  
Delta R.T. 0.003 min  
Lab File: BN038118.D  
Acq: 28 Oct 2025 17:51

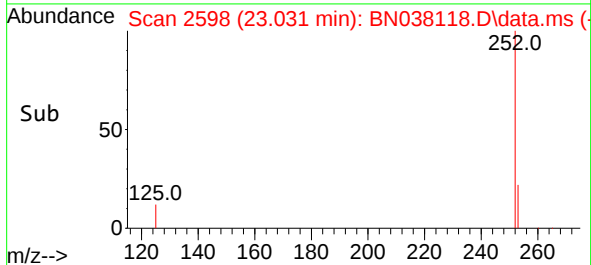
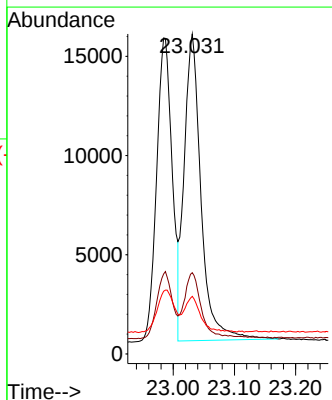
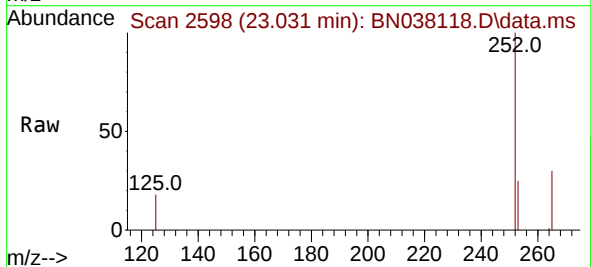
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN102825

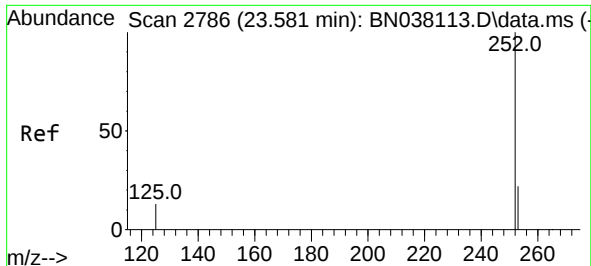
Tgt Ion:252 Resp: 27124  
Ion Ratio Lower Upper  
252 100  
253 25.3 20.9 31.3  
125 19.9 14.1 21.1



#38  
Benzo(k)fluoranthene  
Concen: 0.439 ng  
RT: 23.031 min Scan# 2598  
Delta R.T. 0.003 min  
Lab File: BN038118.D  
Acq: 28 Oct 2025 17:51

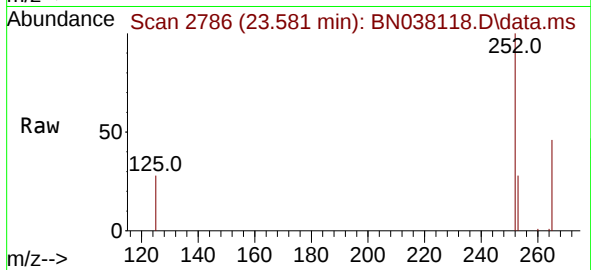
Tgt Ion:252 Resp: 29583  
Ion Ratio Lower Upper  
252 100  
253 25.4 21.2 31.8  
125 18.0 14.6 22.0



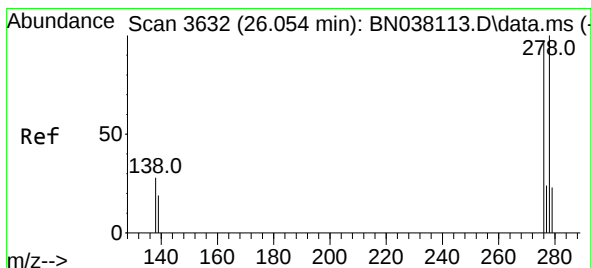
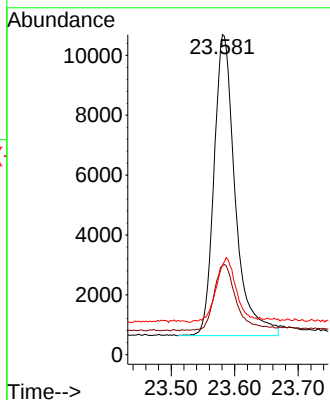
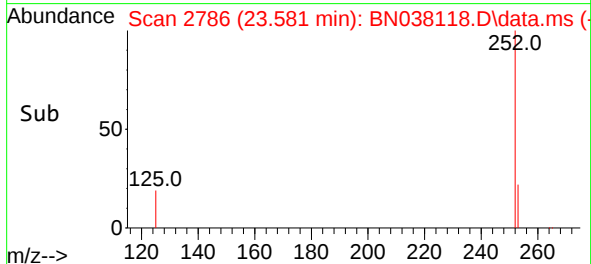


#39  
Benzo(a)pyrene  
Concen: 0.437 ng  
RT: 23.581 min Scan# 21  
Delta R.T. 0.003 min  
Lab File: BN038118.D  
Acq: 28 Oct 2025 17:51

Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN102825

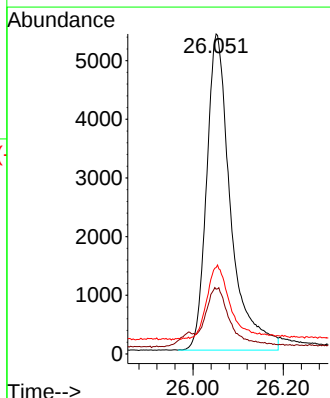
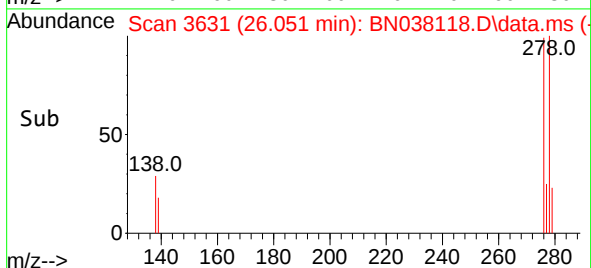
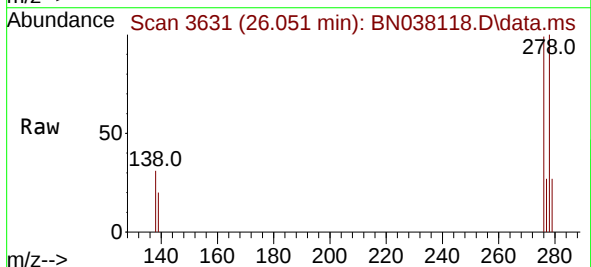


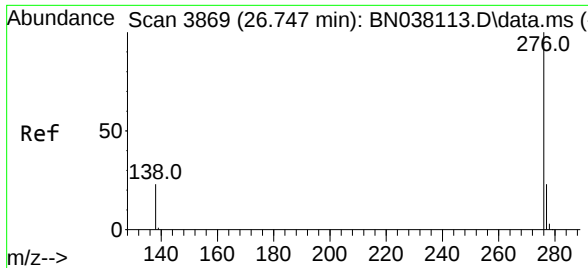
Tgt Ion:252 Resp: 23400  
Ion Ratio Lower Upper  
252 100  
253 27.8 23.1 34.7  
125 28.0 18.6 28.0#



#40  
Dibenzo(a,h)anthracene  
Concen: 0.403 ng  
RT: 26.051 min Scan# 3631  
Delta R.T. 0.003 min  
Lab File: BN038118.D  
Acq: 28 Oct 2025 17:51

Tgt Ion:278 Resp: 19931  
Ion Ratio Lower Upper  
278 100  
139 20.2 17.6 26.4  
279 27.0 22.6 33.8

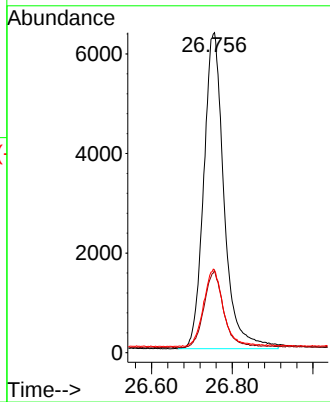
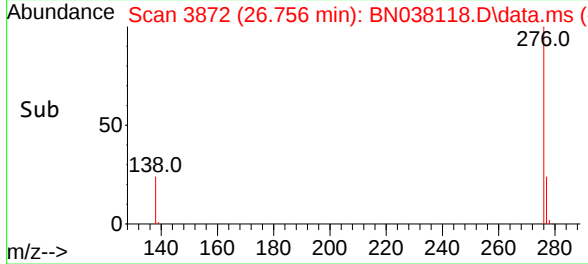
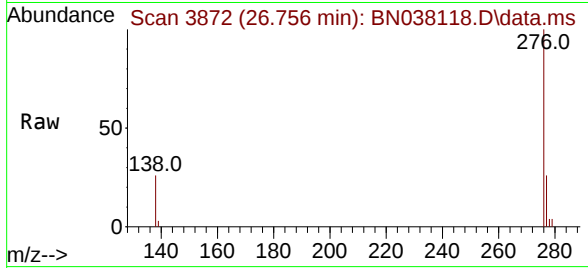




#41  
Benzo(g,h,i)perylene  
Concen: 0.392 ng  
RT: 26.756 min Scan# 3872  
Delta R.T. 0.006 min  
Lab File: BN038118.D  
Acq: 28 Oct 2025 17:51

Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN102825

Tgt Ion:276 Resp: 22180  
Ion Ratio Lower Upper  
276 100  
277 25.7 19.7 29.5  
138 25.7 20.2 30.4



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN102825\  
 Data File : BN038118.D  
 Acq On : 28 Oct 2025 17:51  
 Operator : RC/JU  
 Sample : SSTDICV0.4  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 ICBN102825

Quant Time: Oct 29 17:07:11 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN102825.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Oct 29 13:09:46 2025  
 Response via : Initial Calibration

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

|         | Compound                   | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|---------|----------------------------|-------|-------|-------|-------|----------|
| 1 I     | 1,4-Dichlorobenzene-d4     | 1.000 | 1.000 | 0.0   | 84    | 0.00     |
| 2       | 1,4-Dioxane                | 0.413 | 0.455 | -10.2 | 90    | 0.00     |
| 3       | n-Nitrosodimethylamine     | 0.532 | 0.529 | 0.6   | 82    | 0.00     |
| 4 S     | 2-Fluorophenol             | 0.942 | 0.866 | 8.1   | 76    | 0.00     |
| 5 S     | Phenol-d6                  | 1.148 | 1.006 | 12.4  | 74    | 0.00     |
| 6       | bis(2-Chloroethyl)ether    | 1.128 | 1.202 | -6.6  | 89    | 0.00     |
| 7 I     | Naphthalene-d8             | 1.000 | 1.000 | 0.0   | 84    | 0.01     |
| 8 S     | Nitrobenzene-d5            | 0.323 | 0.285 | 11.8  | 76    | 0.00     |
| 9       | Naphthalene                | 1.102 | 1.121 | -1.7  | 87    | 0.00     |
| 10      | Hexachlorobutadiene        | 0.186 | 0.202 | -8.6  | 91    | 0.00     |
| 11 SURR | 2-Methylnaphthalene-d10    | 0.571 | 0.585 | -2.5  | 89    | 0.00     |
| 12      | 2-Methylnaphthalene        | 0.735 | 0.704 | 4.2   | 84    | 0.00     |
| 13 I    | Acenaphthene-d10           | 1.000 | 1.000 | 0.0   | 86    | 0.01     |
| 14 S    | 2,4,6-Tribromophenol       | 0.165 | 0.140 | 15.2  | 81    | 0.00     |
| 15 S    | 2-Fluorobiphenyl           | 1.602 | 1.647 | -2.8  | 90    | 0.01     |
| 16      | Acenaphthylene             | 1.811 | 2.060 | -13.7 | 103   | 0.00     |
| 17      | Acenaphthene               | 1.267 | 1.262 | 0.4   | 89    | 0.01     |
| 18      | Fluorene                   | 1.661 | 1.719 | -3.5  | 92    | 0.00     |
| 19 I    | Phenanthrene-d10           | 1.000 | 1.000 | 0.0   | 89    | 0.00     |
| 20      | 4,6-Dinitro-2-methylphenol | 0.055 | 0.043 | 21.8  | 86    | 0.00     |
| 21      | 4-Bromophenyl-phenylether  | 0.262 | 0.262 | 0.0   | 93    | 0.00     |
| 22      | Hexachlorobenzene          | 0.298 | 0.318 | -6.7  | 95    | 0.00     |
| 23      | Atrazine                   | 0.192 | 0.178 | 7.3   | 90    | 0.00     |
| 24      | Pentachlorophenol          | 0.128 | 0.113 | 11.7  | 93    | 0.00     |
| 25      | Phenanthrene               | 1.270 | 1.294 | -1.9  | 94    | 0.00     |
| 26      | Anthracene                 | 1.111 | 1.129 | -1.6  | 96    | 0.00     |
| 27 SURR | Fluoranthene-d10           | 1.009 | 0.981 | 2.8   | 91    | 0.00     |
| 28      | Fluoranthene               | 1.419 | 1.347 | 5.1   | 89    | 0.00     |
| 29 I    | Chrysene-d12               | 1.000 | 1.000 | 0.0   | 87    | 0.00     |
| 30      | Pyrene                     | 1.806 | 1.903 | -5.4  | 90    | 0.00     |
| 31 S    | Terphenyl-d14              | 0.869 | 0.931 | -7.1  | 93    | 0.00     |
| 32      | Benzo(a)anthracene         | 1.427 | 1.433 | -0.4  | 92    | 0.00     |
| 33      | Chrysene                   | 1.549 | 1.657 | -7.0  | 93    | 0.00     |
| 34      | Bis(2-ethylhexyl)phthalate | 0.752 | 0.672 | 10.6  | 81    | 0.00     |
| 35 I    | Perylene-d12               | 1.000 | 1.000 | 0.0   | 87    | 0.00     |
| 36      | Indeno(1,2,3-cd)pyrene     | 1.643 | 1.668 | -1.5  | 91    | 0.00     |
| 37      | Benzo(b)fluoranthene       | 1.710 | 1.732 | -1.3  | 93    | 0.00     |
| 38      | Benzo(k)fluoranthene       | 1.721 | 1.889 | -9.8  | 102   | 0.00     |
| 39 C    | Benzo(a)pyrene             | 1.369 | 1.494 | -9.1  | 99    | 0.00     |
| 40      | Dibenzo(a,h)anthracene     | 1.265 | 1.273 | -0.6  | 93    | 0.00     |
| 41      | Benzo(g,h,i)perylene       | 1.444 | 1.416 | 1.9   | 87    | 0.00     |

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN102825\  
 Data File : BN038118.D  
 Acq On : 28 Oct 2025 17:51  
 Operator : RC/JU  
 Sample : SSTDICV0.4  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 ICVBN102825

Quant Time: Oct 29 17:07:11 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN102825.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Oct 29 13:09:46 2025  
 Response via : Initial Calibration

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

|         | Compound                   | Amount | Calc. | %Dev  | Area% | Dev(min) |
|---------|----------------------------|--------|-------|-------|-------|----------|
| 1 I     | 1,4-Dichlorobenzene-d4     | 0.400  | 0.400 | 0.0   | 84    | 0.00     |
| 2       | 1,4-Dioxane                | 0.400  | 0.440 | -10.0 | 90    | 0.00     |
| 3       | n-Nitrosodimethylamine     | 0.400  | 0.398 | 0.5   | 82    | 0.00     |
| 4 S     | 2-Fluorophenol             | 0.400  | 0.368 | 8.0   | 76    | 0.00     |
| 5 S     | Phenol-d6                  | 0.400  | 0.351 | 12.3  | 74    | 0.00     |
| 6       | bis(2-Chloroethyl)ether    | 0.400  | 0.427 | -6.7  | 89    | 0.00     |
| 7 I     | Naphthalene-d8             | 0.400  | 0.400 | 0.0   | 84    | 0.01     |
| 8 S     | Nitrobenzene-d5            | 0.400  | 0.353 | 11.8  | 76    | 0.00     |
| 9       | Naphthalene                | 0.400  | 0.407 | -1.7  | 87    | 0.00     |
| 10      | Hexachlorobutadiene        | 0.400  | 0.435 | -8.7  | 91    | 0.00     |
| 11 SURR | 2-Methylnaphthalene-d10    | 0.400  | 0.410 | -2.5  | 89    | 0.00     |
| 12      | 2-Methylnaphthalene        | 0.400  | 0.384 | 4.0   | 84    | 0.00     |
| 13 I    | Acenaphthene-d10           | 0.400  | 0.400 | 0.0   | 86    | 0.01     |
| 14 S    | 2,4,6-Tribromophenol       | 0.400  | 0.340 | 15.0  | 81    | 0.00     |
| 15 S    | 2-Fluorobiphenyl           | 0.400  | 0.411 | -2.7  | 90    | 0.01     |
| 16      | Acenaphthylene             | 0.400  | 0.455 | -13.7 | 103   | 0.00     |
| 17      | Acenaphthene               | 0.400  | 0.398 | 0.5   | 89    | 0.01     |
| 18      | Fluorene                   | 0.400  | 0.414 | -3.5  | 92    | 0.00     |
| 19 I    | Phenanthrene-d10           | 0.400  | 0.400 | 0.0   | 89    | 0.00     |
| 20      | 4,6-Dinitro-2-methylphenol | 0.400  | 0.411 | -2.7  | 86    | 0.00     |
| 21      | 4-Bromophenyl-phenylether  | 0.400  | 0.400 | 0.0   | 93    | 0.00     |
| 22      | Hexachlorobenzene          | 0.400  | 0.426 | -6.5  | 95    | 0.00     |
| 23      | Atrazine                   | 0.400  | 0.370 | 7.5   | 90    | 0.00     |
| 24      | Pentachlorophenol          | 0.400  | 0.351 | 12.3  | 93    | 0.00     |
| 25      | Phenanthrene               | 0.400  | 0.408 | -2.0  | 94    | 0.00     |
| 26      | Anthracene                 | 0.400  | 0.406 | -1.5  | 96    | 0.00     |
| 27 SURR | Fluoranthene-d10           | 0.400  | 0.389 | 2.8   | 91    | 0.00     |
| 28      | Fluoranthene               | 0.400  | 0.380 | 5.0   | 89    | 0.00     |
| 29 I    | Chrysene-d12               | 0.400  | 0.400 | 0.0   | 87    | 0.00     |
| 30      | Pyrene                     | 0.400  | 0.422 | -5.5  | 90    | 0.00     |
| 31 S    | Terphenyl-d14              | 0.400  | 0.428 | -7.0  | 93    | 0.00     |
| 32      | Benzo(a)anthracene         | 0.400  | 0.402 | -0.5  | 92    | 0.00     |
| 33      | Chrysene                   | 0.400  | 0.428 | -7.0  | 93    | 0.00     |
| 34      | Bis(2-ethylhexyl)phthalate | 0.400  | 0.358 | 10.5  | 81    | 0.00     |
| 35 I    | Perylene-d12               | 0.400  | 0.400 | 0.0   | 87    | 0.00     |
| 36      | Indeno(1,2,3-cd)pyrene     | 0.400  | 0.406 | -1.5  | 91    | 0.00     |
| 37      | Benzo(b)fluoranthene       | 0.400  | 0.405 | -1.3  | 93    | 0.00     |
| 38      | Benzo(k)fluoranthene       | 0.400  | 0.439 | -9.7  | 102   | 0.00     |
| 39 C    | Benzo(a)pyrene             | 0.400  | 0.437 | -9.2  | 99    | 0.00     |
| 40      | Dibenzo(a,h)anthracene     | 0.400  | 0.403 | -0.8  | 93    | 0.00     |
| 41      | Benzo(g,h,i)perylene       | 0.400  | 0.392 | 2.0   | 87    | 0.00     |

(#) = Out of Range

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

|                 |                   |                        |                              |
|-----------------|-------------------|------------------------|------------------------------|
| Lab Name:       | <u>Alliance</u>   | Contract:              | <u>TETR06</u>                |
| Lab Code:       | <u>ACE</u>        | SDG No.:               | <u>Q3526</u>                 |
| Instrument ID:  | <u>BNA_N</u>      | Calibration Date/Time: | <u>11/04/2025 10:40</u>      |
| Lab File ID:    | <u>BN038130.D</u> | Init. Calib. Date(s):  | <u>10/28/2025 10/28/2025</u> |
| EPA Sample No.: | <u>SSTDCCC0.4</u> | Init. Calib. Time(s):  | <u>13:00 16:38</u>           |
| GC Column:      | <u>ZB-GR</u>      | ID:                    | <u>0.25</u> (mm)             |

| COMPOUND                | RRF   | RRF0.4 | MIN<br>RRF | %D    | MAX%D |
|-------------------------|-------|--------|------------|-------|-------|
| 2-Methylnaphthalene-d10 | 0.571 | 0.541  |            | -5.3  | 20.0  |
| Fluoranthene-d10        | 1.008 | 0.889  |            | -11.8 | 20.0  |
| 2-Fluorophenol          | 0.943 | 0.856  |            | -9.2  | 20.0  |
| Phenol-d6               | 1.148 | 1.025  |            | -10.7 | 20.0  |
| Nitrobenzene-d5         | 0.323 | 0.277  |            | -14.2 | 20.0  |
| 2-Fluorobiphenyl        | 1.602 | 1.514  |            | -5.5  | 20.0  |
| 2,4,6-Tribromophenol    | 0.165 | 0.134  |            | -18.8 | 20.0  |
| Terphenyl-d14           | 0.869 | 0.916  |            | 5.4   | 20.0  |
| 1,4-Dioxane             | 0.416 | 0.433  |            | 4.1   | 20.0  |

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN110425\  
 Data File : BN038130.D  
 Acq On : 04 Nov 2025 10:40  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4

Quant Time: Nov 04 11:42:01 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN102825.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Oct 29 13:09:46 2025  
 Response via : Initial Calibration

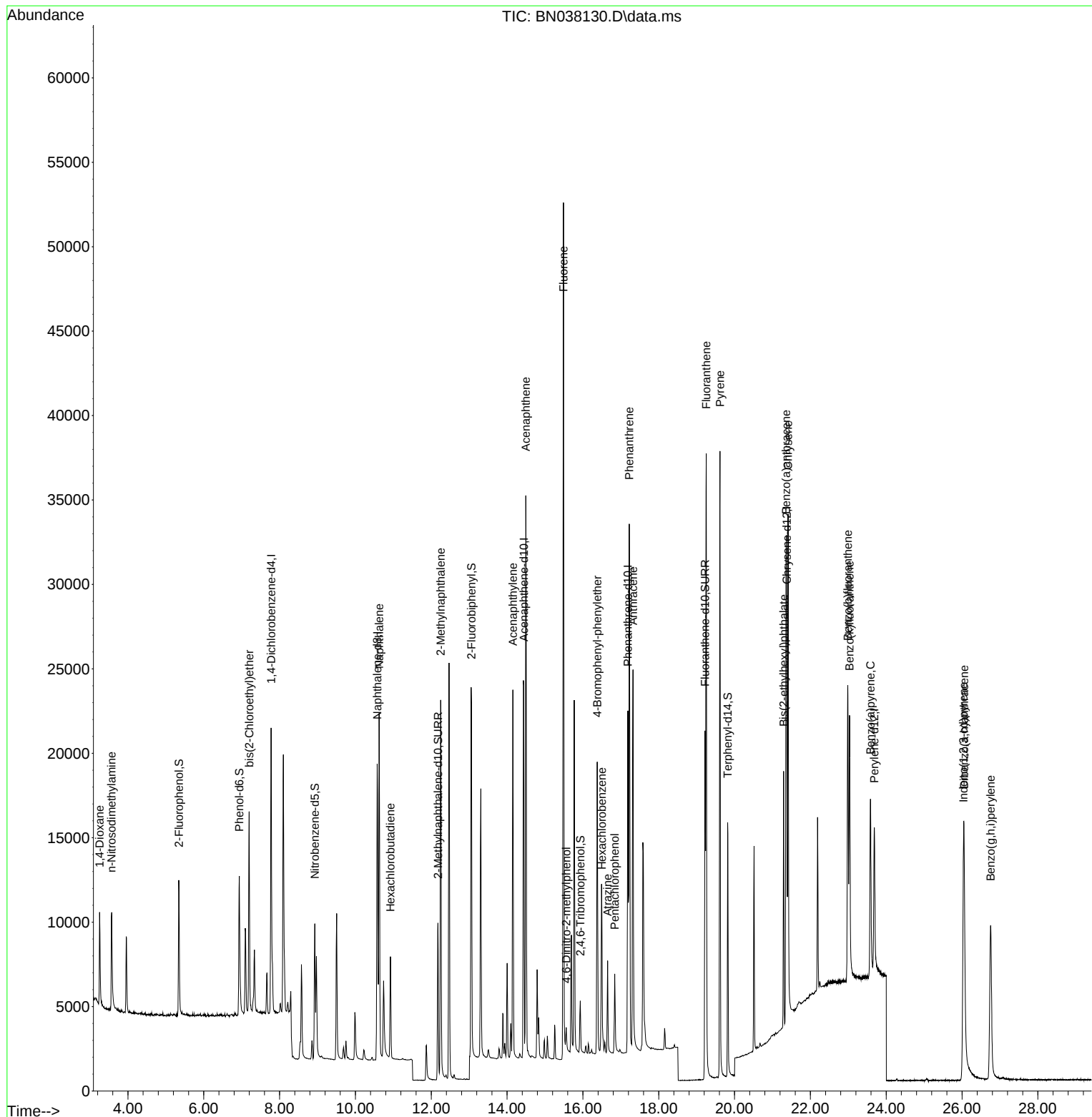
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.775  | 152  | 8599     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.573 | 136  | 24973    | 0.400 | ng    | # 0.00   |
| 13) Acenaphthene-d10          | 14.441 | 164  | 13947    | 0.400 | ng    | 0.01     |
| 19) Phenanthrene-d10          | 17.186 | 188  | 27056    | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 21.375 | 240  | 17059    | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.686 | 264  | 13607    | 0.400 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.348  | 112  | 7357     | 0.363 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.937  | 99   | 8817     | 0.357 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.928  | 82   | 6906     | 0.343 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 12.177 | 152  | 13509    | 0.379 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.932 | 330  | 1874     | 0.326 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 13.062 | 172  | 21117    | 0.378 | ng    | 0.01     |
| 27) Fluoranthene-d10          | 19.220 | 212  | 24042    | 0.352 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.819 | 244  | 15620    | 0.421 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
|                               |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.254  | 88   | 3722     | 0.419 | ng    | 99       |
| 3) n-Nitrosodimethylamine     | 3.564  | 42   | 4544     | 0.397 | ng    | # 93     |
| 6) bis(2-Chloroethyl)ether    | 7.197  | 93   | 9558     | 0.394 | ng    | 99       |
| 9) Naphthalene                | 10.626 | 128  | 27095    | 0.394 | ng    | 100      |
| 10) Hexachlorobutadiene       | 10.925 | 225  | 4747     | 0.409 | ng    | # 99     |
| 12) 2-Methylnaphthalene       | 12.248 | 142  | 17751    | 0.387 | ng    | 98       |
| 16) Acenaphthylene            | 14.152 | 152  | 24464    | 0.387 | ng    | 99       |
| 17) Acenaphthene              | 14.494 | 154  | 16888    | 0.382 | ng    | 96       |
| 18) Fluorene                  | 15.489 | 166  | 22996    | 0.397 | ng    | 100      |
| 20) 4,6-Dinitro-2-methylph... | 15.560 | 198  | 1019     | 0.381 | ng    | # 84     |
| 21) 4-Bromophenyl-phenylether | 16.379 | 248  | 6844     | 0.386 | ng    | 98       |
| 22) Hexachlorobenzene         | 16.503 | 284  | 8492     | 0.421 | ng    | 100      |
| 23) Atrazine                  | 16.652 | 200  | 4361     | 0.336 | ng    | 98       |
| 24) Pentachlorophenol         | 16.838 | 266  | 2516     | 0.290 | ng    | 98       |
| 25) Phenanthrene              | 17.223 | 178  | 33589    | 0.391 | ng    | 100      |
| 26) Anthracene                | 17.322 | 178  | 27861    | 0.371 | ng    | 99       |
| 28) Fluoranthene              | 19.252 | 202  | 35123    | 0.366 | ng    | 100      |
| 30) Pyrene                    | 19.615 | 202  | 34116    | 0.443 | ng    | 100      |
| 32) Benzo(a)anthracene        | 21.357 | 228  | 22233    | 0.365 | ng    | 100      |
| 33) Chrysene                  | 21.411 | 228  | 26943    | 0.408 | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 21.295 | 149  | 12992    | 0.405 | ng    | 100      |
| 36) Indeno(1,2,3-cd)pyrene    | 26.036 | 276  | 23804    | 0.426 | ng    | 99       |
| 37) Benzo(b)fluoranthene      | 22.987 | 252  | 23288    | 0.400 | ng    | 98       |
| 38) Benzo(k)fluoranthene      | 23.031 | 252  | 23877    | 0.408 | ng    | 99       |
| 39) Benzo(a)pyrene            | 23.583 | 252  | 18445    | 0.396 | ng    | 98       |
| 40) Dibenzo(a,h)anthracene    | 26.054 | 278  | 18347    | 0.427 | ng    | 99       |
| 41) Benzo(g,h,i)perylene      | 26.753 | 276  | 21656    | 0.441 | ng    | 100      |
| -----                         |        |      |          |       |       |          |

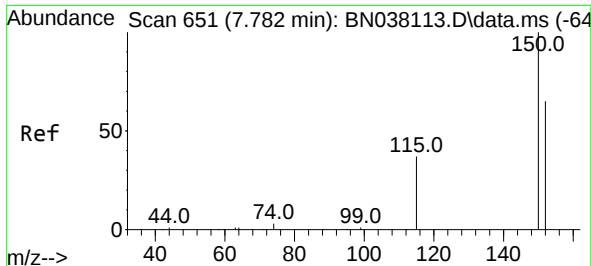
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN110425\  
Data File : BN038130.D  
Acq On : 04 Nov 2025 10:40  
Operator : RC/JU  
Sample : SSTDCCC0.4  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

Quant Time: Nov 04 11:42:01 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN102825.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Oct 29 13:09:46 2025  
Response via : Initial Calibration

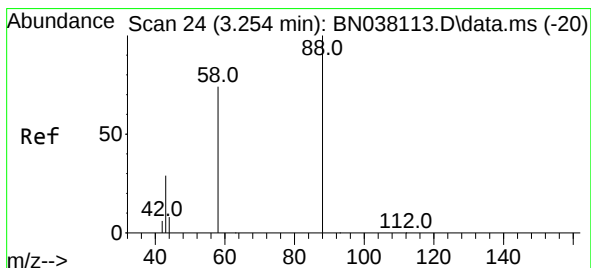
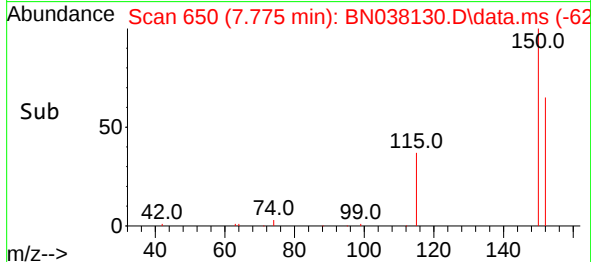
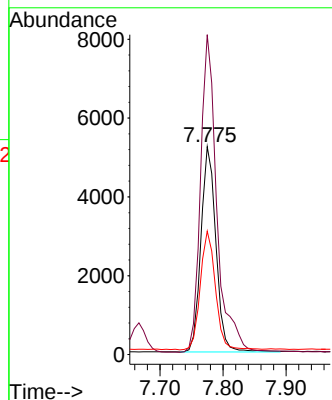
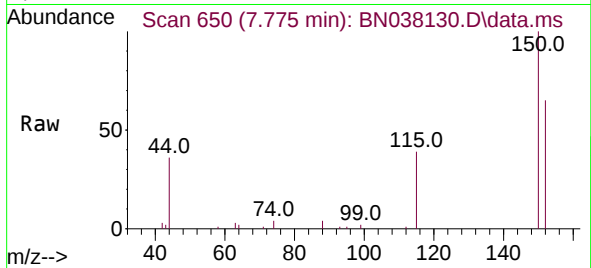




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 0.400 ng  
 RT: 7.775 min Scan# 61  
 Delta R.T. -0.000 min  
 Lab File: BN038130.D  
 Acq: 04 Nov 2025 10:40

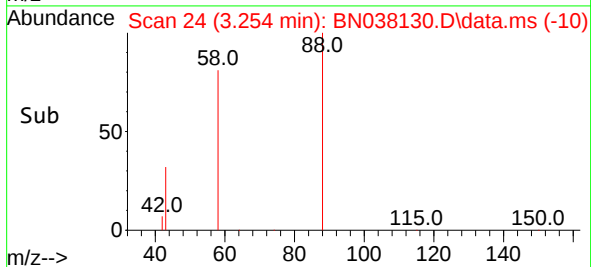
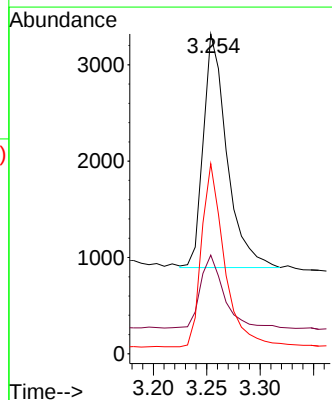
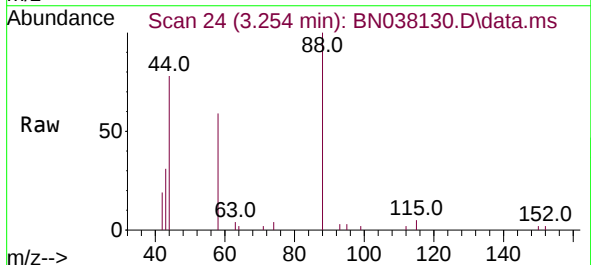
Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4

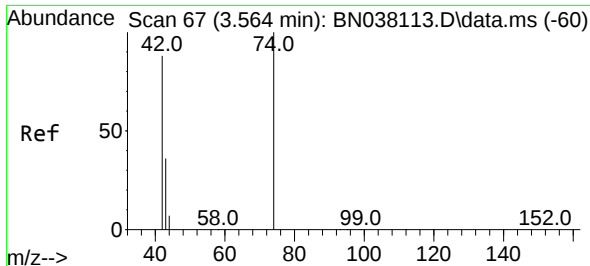
Tgt Ion:152 Resp: 8599  
 Ion Ratio Lower Upper  
 152 100  
 150 153.9 122.3 183.5  
 115 59.4 47.4 71.0



#2  
 1,4-Dioxane  
 Concen: 0.419 ng  
 RT: 3.254 min Scan# 24  
 Delta R.T. -0.000 min  
 Lab File: BN038130.D  
 Acq: 04 Nov 2025 10:40

Tgt Ion: 88 Resp: 3722  
 Ion Ratio Lower Upper  
 88 100  
 43 31.1 24.3 36.5  
 58 76.5 60.4 90.6

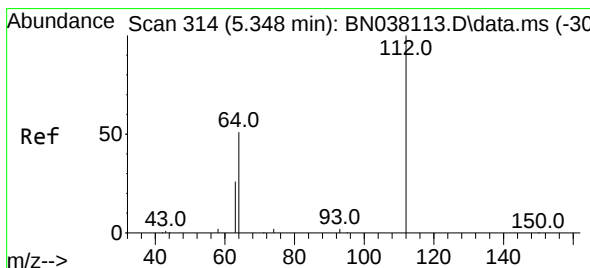
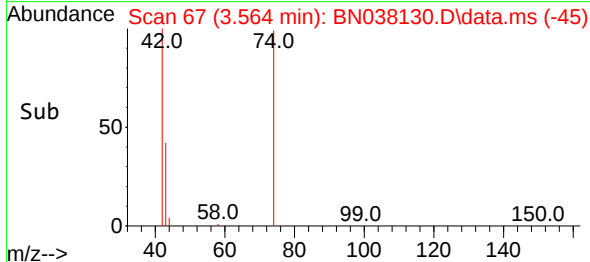
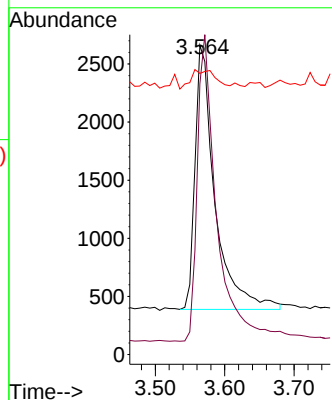
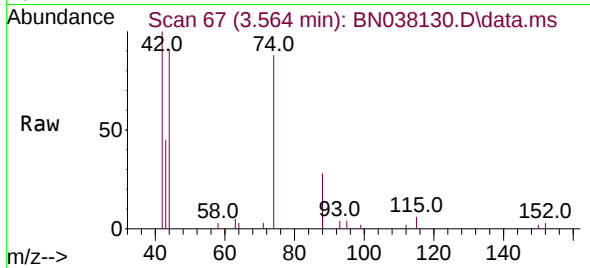




#3  
 n-Nitrosodimethylamine  
 Concen: 0.397 ng  
 RT: 3.564 min Scan# 61  
 Delta R.T. 0.007 min  
 Lab File: BN038130.D  
 Acq: 04 Nov 2025 10:40

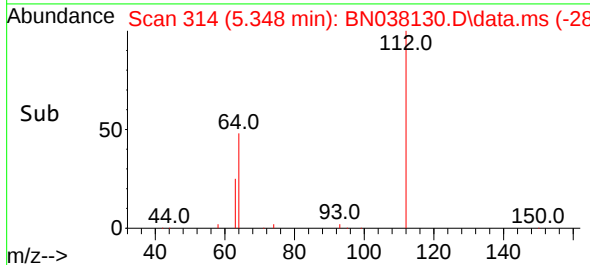
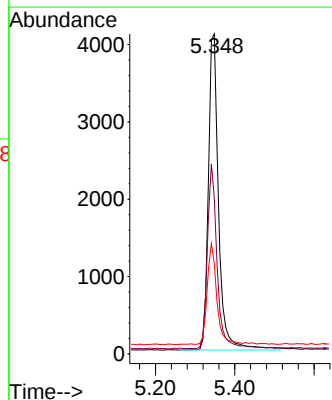
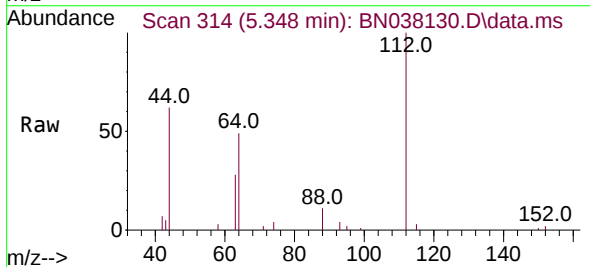
Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4

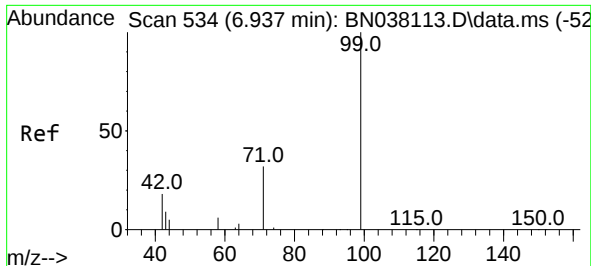
Tgt Ion: 42 Resp: 4544  
 Ion Ratio Lower Upper  
 42 100  
 74 112.7 96.8 145.2  
 44 9.0 5.3 7.9#



#4  
 2-Fluorophenol  
 Concen: 0.363 ng  
 RT: 5.348 min Scan# 314  
 Delta R.T. -0.000 min  
 Lab File: BN038130.D  
 Acq: 04 Nov 2025 10:40

Tgt Ion: 112 Resp: 7357  
 Ion Ratio Lower Upper  
 112 100  
 64 55.3 45.4 68.0  
 63 29.7 23.2 34.8

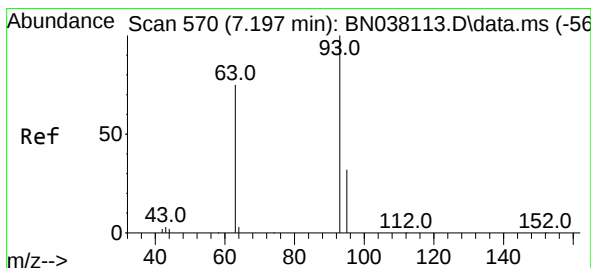
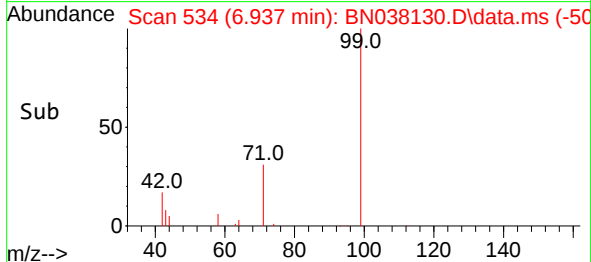
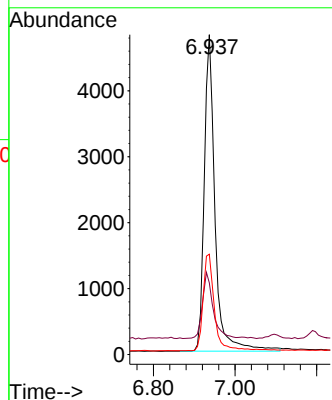
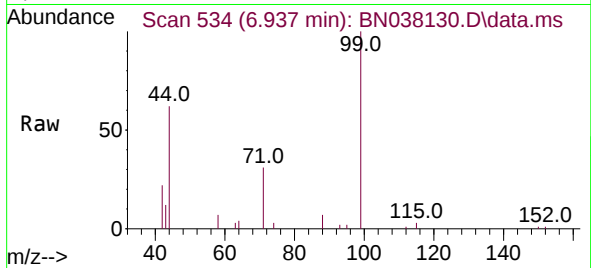




#5  
Phenol-d6  
Concen: 0.357 ng  
RT: 6.937 min Scan# 534  
Delta R.T. -0.000 min  
Lab File: BN038130.D  
Acq: 04 Nov 2025 10:40

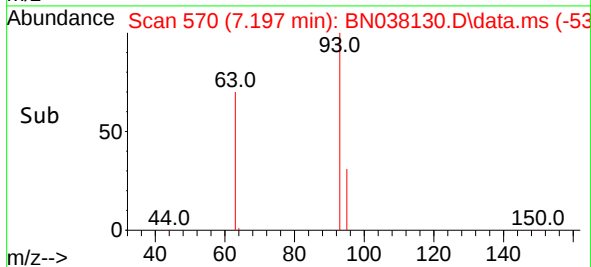
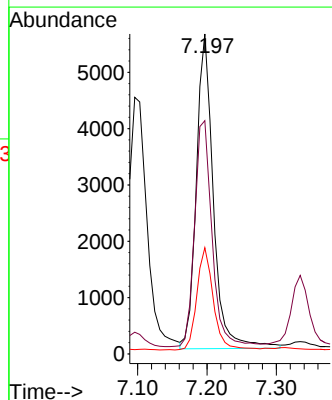
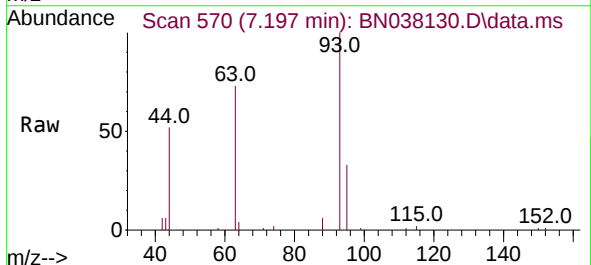
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

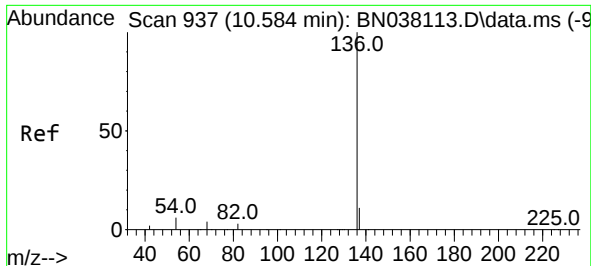
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 99    | Resp: | 8817  |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 20.3  | 16.6  | 24.8  |
| 71       | 31.7  | 25.4  | 38.2  |



#6  
bis(2-Chloroethyl)ether  
Concen: 0.394 ng  
RT: 7.197 min Scan# 570  
Delta R.T. -0.000 min  
Lab File: BN038130.D  
Acq: 04 Nov 2025 10:40

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 93    | Resp: | 9558  |
| Ion      | Ratio | Lower | Upper |
| 93       | 100   |       |       |
| 63       | 73.2  | 59.3  | 88.9  |
| 95       | 31.1  | 25.2  | 37.8  |

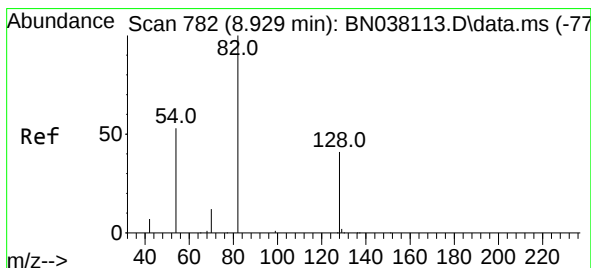
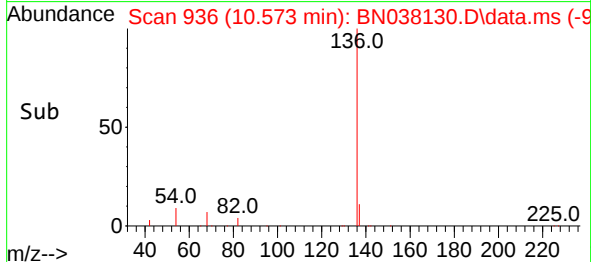
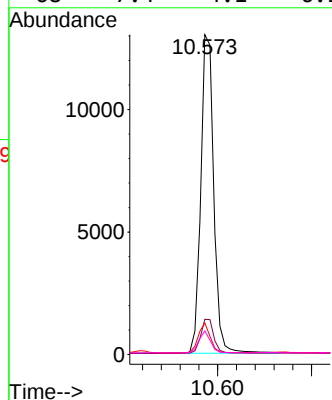
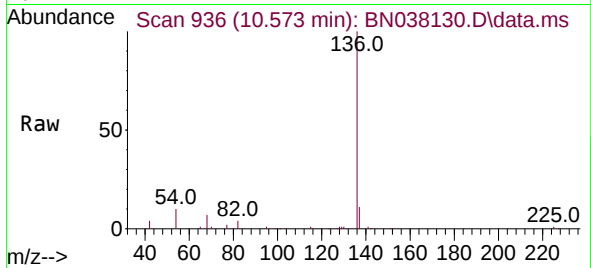




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.573 min Scan# 937  
Delta R.T. -0.000 min  
Lab File: BN038130.D  
Acq: 04 Nov 2025 10:40

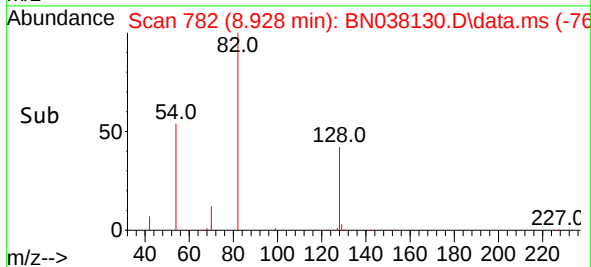
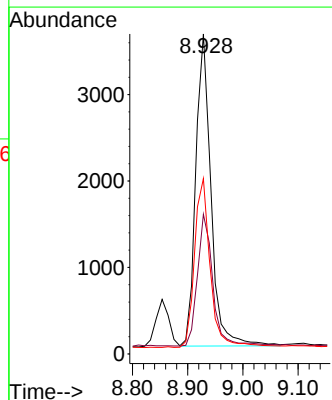
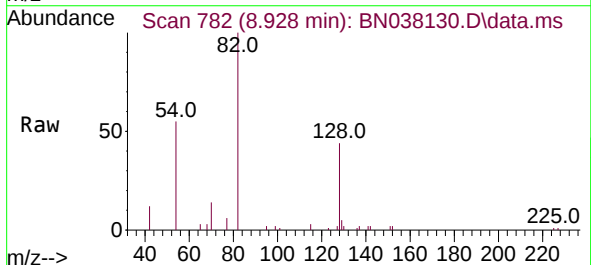
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

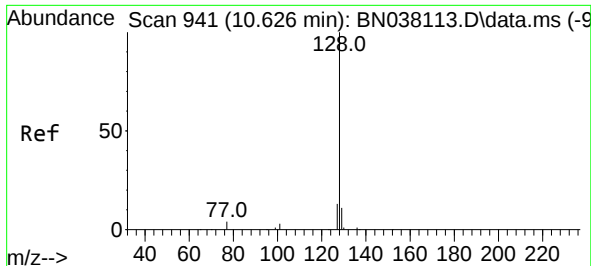
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 136   | Resp: | 24973 |
| Ion Ratio | Lower | Upper |       |
| 136       | 100   |       |       |
| 137       | 11.0  | 9.0   | 13.4  |
| 54        | 9.9   | 5.2   | 7.8#  |
| 68        | 7.4   | 4.1   | 6.1#  |



#8  
Nitrobenzene-d5  
Concen: 0.343 ng  
RT: 8.928 min Scan# 782  
Delta R.T. -0.000 min  
Lab File: BN038130.D  
Acq: 04 Nov 2025 10:40

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 82    | Resp: | 6906 |
| Ion Ratio | Lower | Upper |      |
| 82        | 100   |       |      |
| 128       | 43.6  | 34.1  | 51.1 |
| 54        | 54.8  | 43.5  | 65.3 |

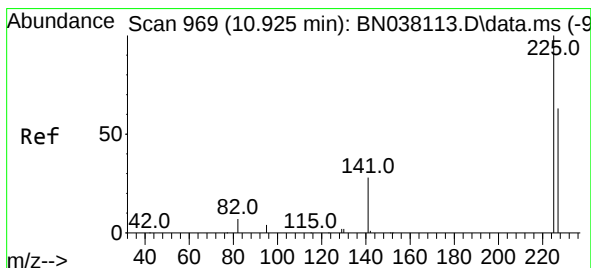
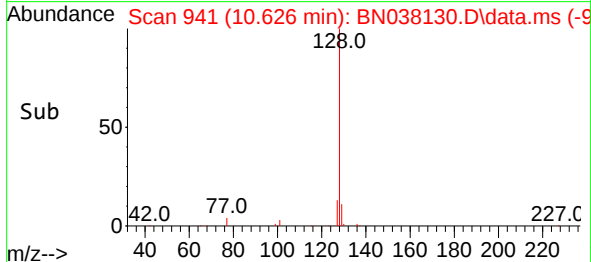
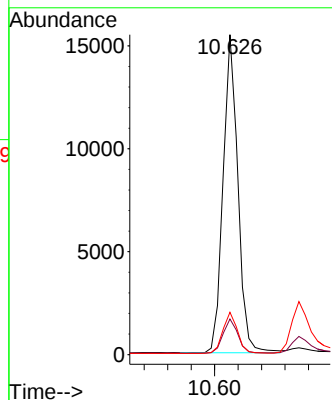
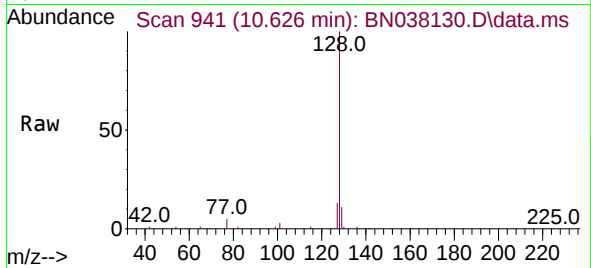




#9  
Naphthalene  
Concen: 0.394 ng  
RT: 10.626 min Scan# 941  
Delta R.T. -0.000 min  
Lab File: BN038130.D  
Acq: 04 Nov 2025 10:40

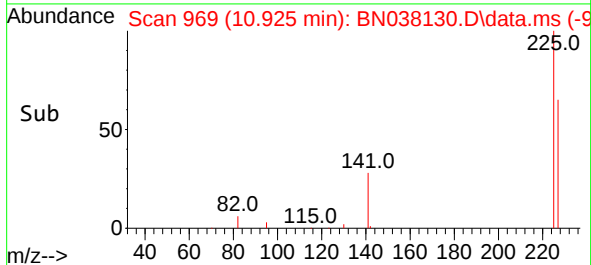
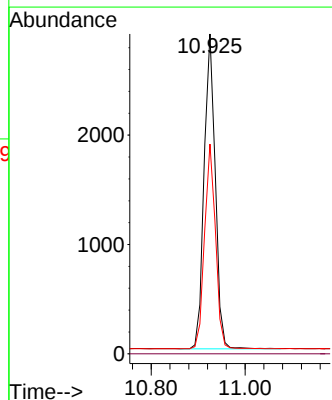
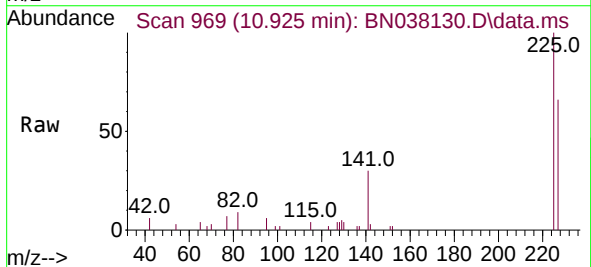
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

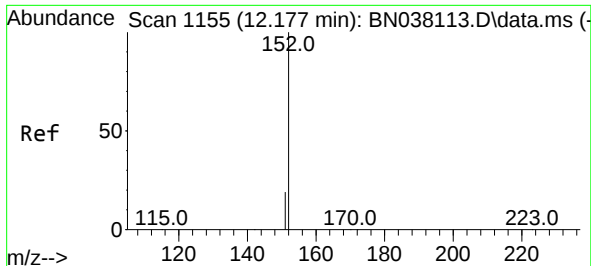
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 27095 |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 129      | 11.1  | 9.1   | 13.7  |
| 127      | 13.2  | 10.5  | 15.7  |



#10  
Hexachlorobutadiene  
Concen: 0.409 ng  
RT: 10.925 min Scan# 969  
Delta R.T. -0.000 min  
Lab File: BN038130.D  
Acq: 04 Nov 2025 10:40

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 225   | Resp: | 4747  |
| Ion      | Ratio | Lower | Upper |
| 225      | 100   |       |       |
| 223      | 0.0   | 0.0   | 0.0   |
| 227      | 63.8  | 50.3  | 75.5  |

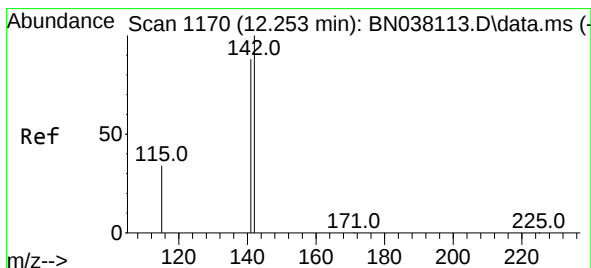
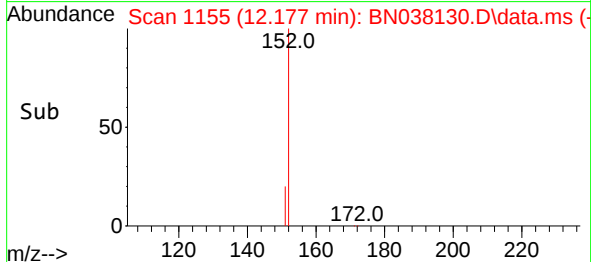
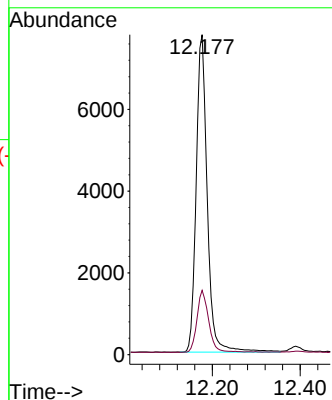
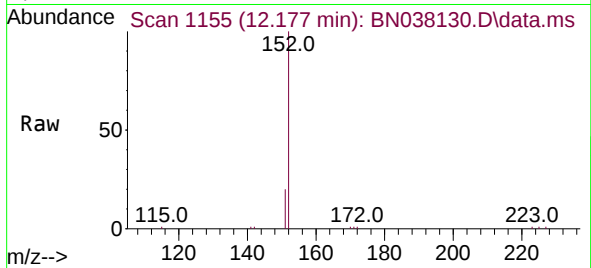




#11  
2-Methylnaphthalene-d10  
Concen: 0.379 ng  
RT: 12.177 min Scan# 1155  
Delta R.T. -0.000 min  
Lab File: BN038130.D  
Acq: 04 Nov 2025 10:40

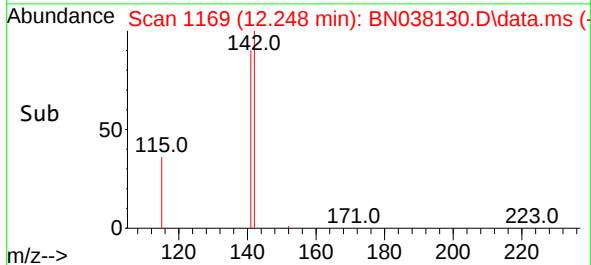
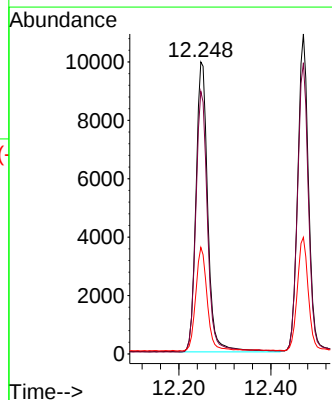
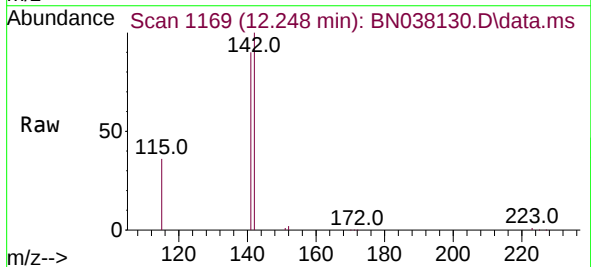
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

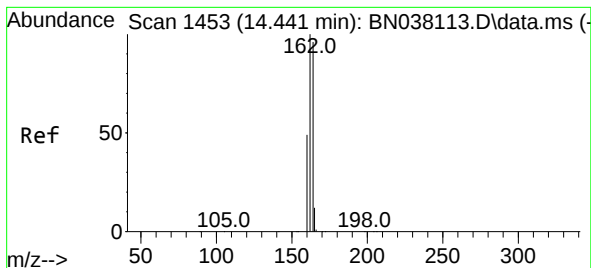
Tgt Ion:152 Resp: 13509  
Ion Ratio Lower Upper  
152 100  
151 20.7 16.8 25.2



#12  
2-Methylnaphthalene  
Concen: 0.387 ng  
RT: 12.248 min Scan# 1169  
Delta R.T. -0.000 min  
Lab File: BN038130.D  
Acq: 04 Nov 2025 10:40

Tgt Ion:142 Resp: 17751  
Ion Ratio Lower Upper  
142 100  
141 89.9 70.3 105.5  
115 36.5 27.8 41.6





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.441 min Scan# 1453

Delta R.T. 0.010 min

Lab File: BN038130.D

Acq: 04 Nov 2025 10:40

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

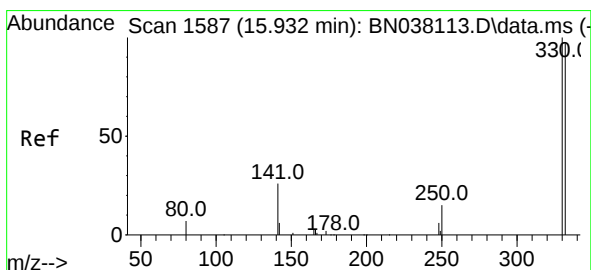
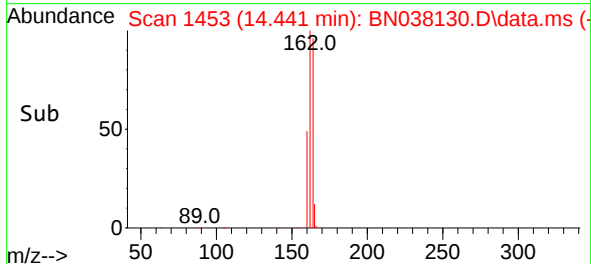
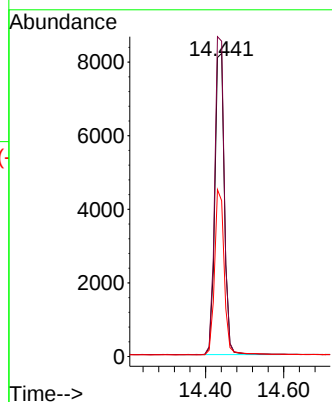
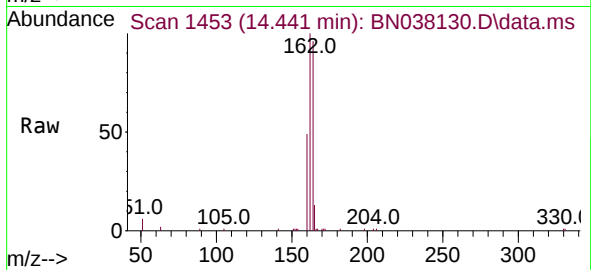
Tgt Ion:164 Resp: 13947

Ion Ratio Lower Upper

164 100

162 104.1 83.0 124.4

160 51.5 40.7 61.1



#14

2,4,6-Tribromophenol

Concen: 0.326 ng

RT: 15.932 min Scan# 1587

Delta R.T. -0.000 min

Lab File: BN038130.D

Acq: 04 Nov 2025 10:40

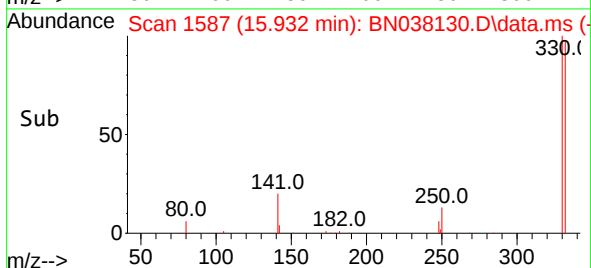
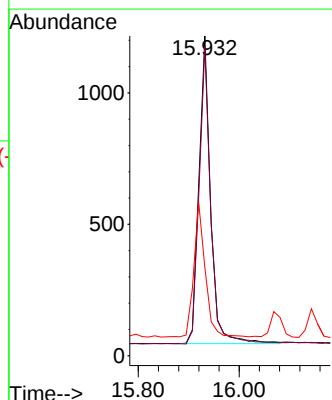
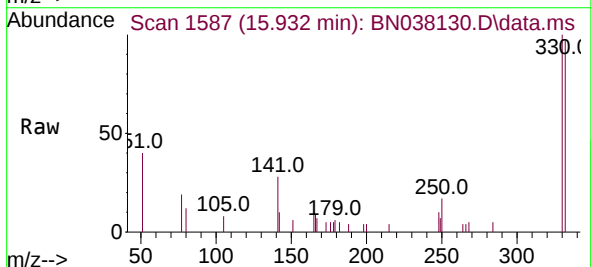
Tgt Ion:330 Resp: 1874

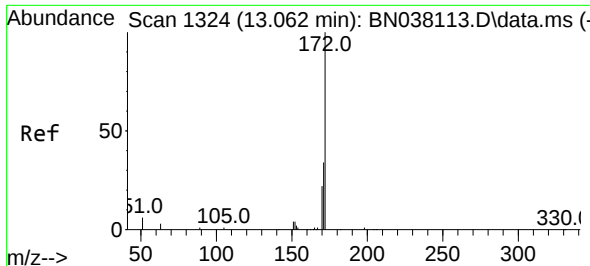
Ion Ratio Lower Upper

330 100

332 95.6 76.6 114.8

141 42.3 34.1 51.1

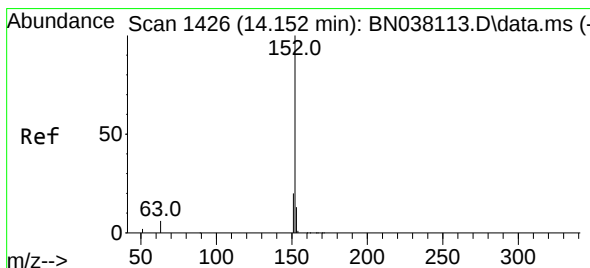
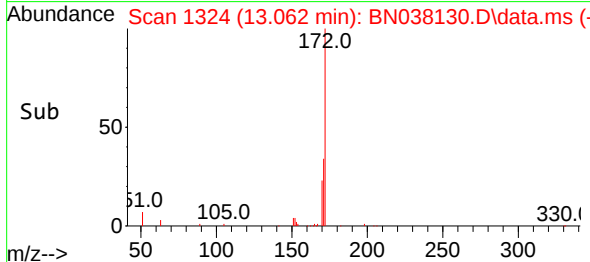
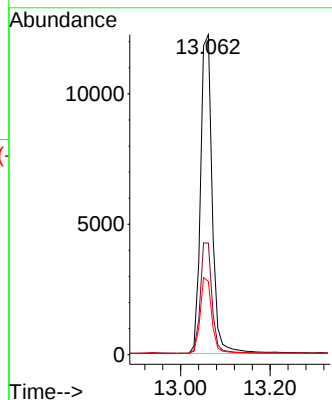
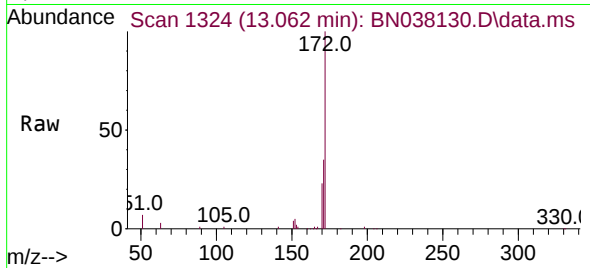




#15  
2-Fluorobiphenyl  
Concen: 0.378 ng  
RT: 13.062 min Scan# 1324  
Delta R.T. 0.010 min  
Lab File: BN038130.D  
Acq: 04 Nov 2025 10:40

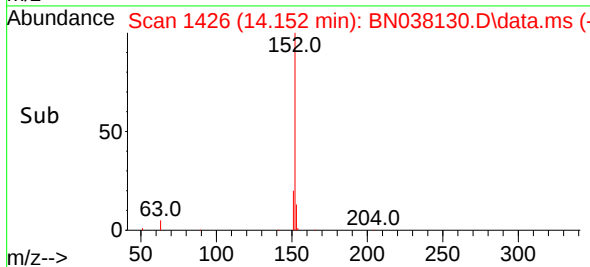
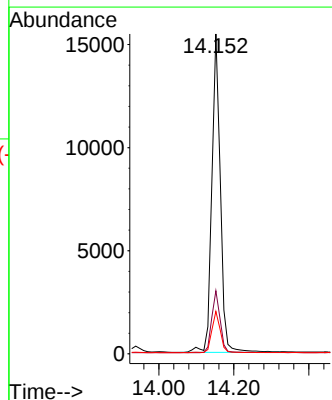
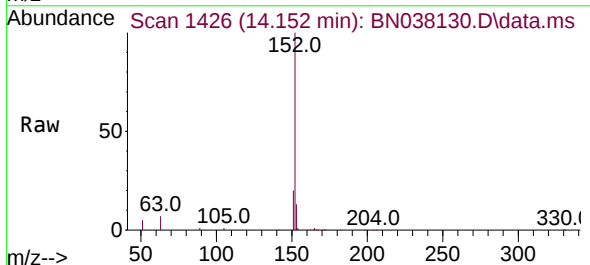
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

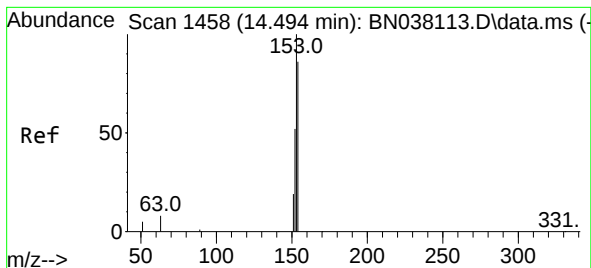
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 172   | Resp: | 21117 |
| Ion Ratio | Lower | Upper |       |
| 172       | 100   |       |       |
| 171       | 34.8  | 27.8  | 41.6  |
| 170       | 22.9  | 18.1  | 27.1  |



#16  
Acenaphthylene  
Concen: 0.387 ng  
RT: 14.152 min Scan# 1426  
Delta R.T. -0.000 min  
Lab File: BN038130.D  
Acq: 04 Nov 2025 10:40

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 152   | Resp: | 24464 |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 19.5  | 15.8  | 23.8  |
| 153       | 13.1  | 10.2  | 15.2  |





#17

Acenaphthene

Concen: 0.382 ng

RT: 14.494 min Scan# 1458

Delta R.T. -0.000 min

Lab File: BN038130.D

Acq: 04 Nov 2025 10:40

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

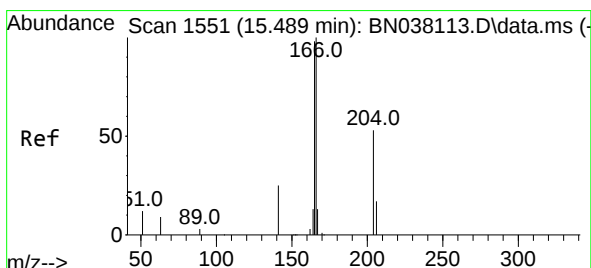
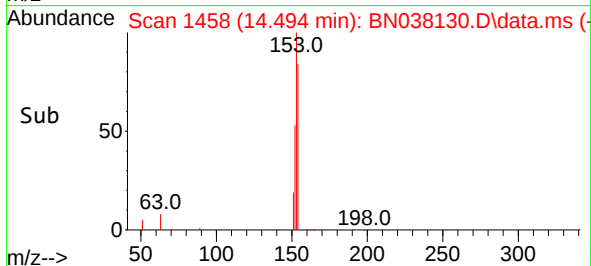
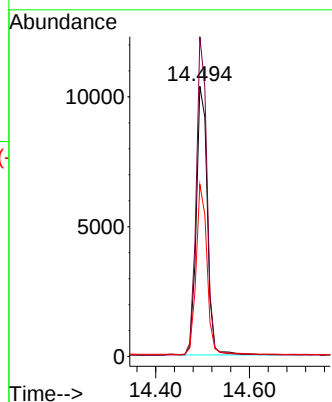
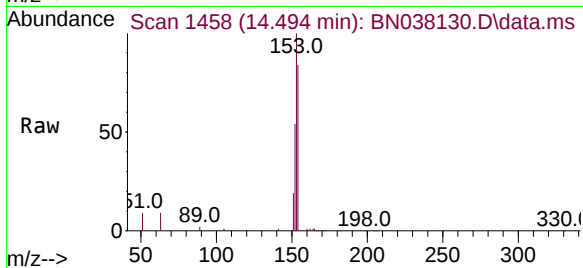
Tgt Ion:154 Resp: 16888

Ion Ratio Lower Upper

154 100

153 115.7 90.0 135.0

152 62.6 47.3 70.9



#18

Fluorene

Concen: 0.397 ng

RT: 15.489 min Scan# 1551

Delta R.T. -0.000 min

Lab File: BN038130.D

Acq: 04 Nov 2025 10:40

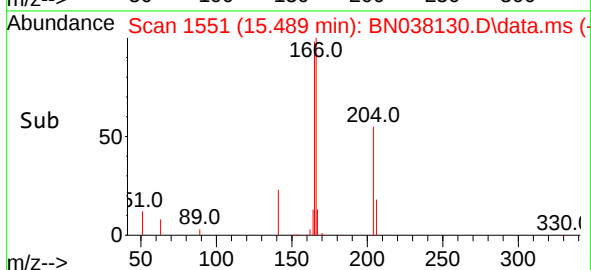
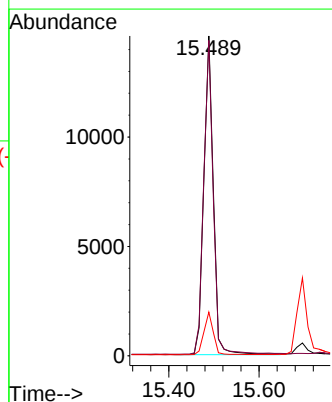
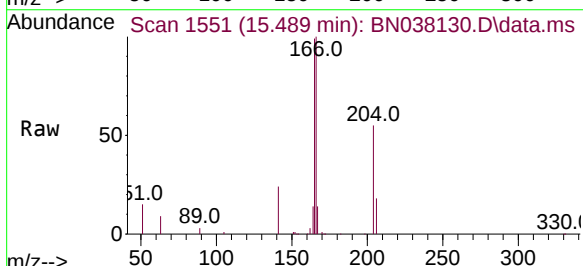
Tgt Ion:166 Resp: 22996

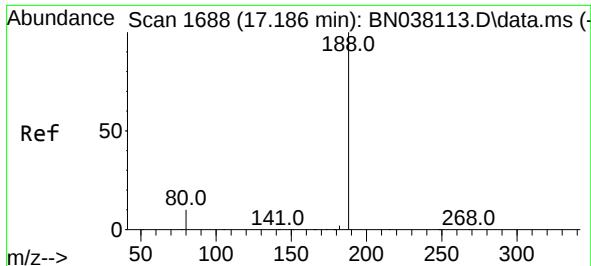
Ion Ratio Lower Upper

166 100

165 98.5 79.0 118.4

167 13.0 10.7 16.1

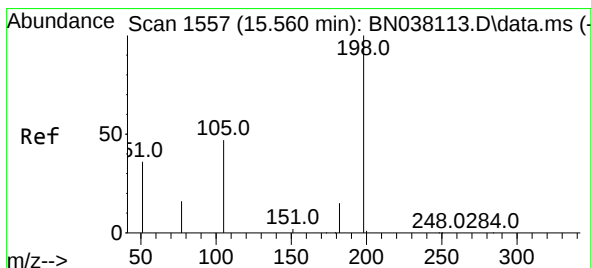
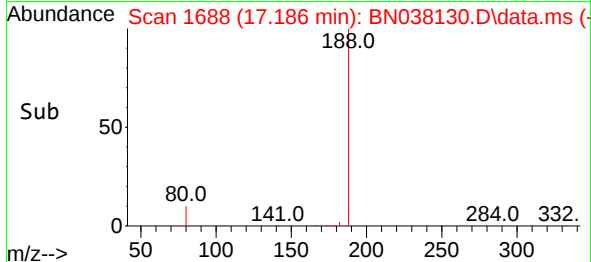
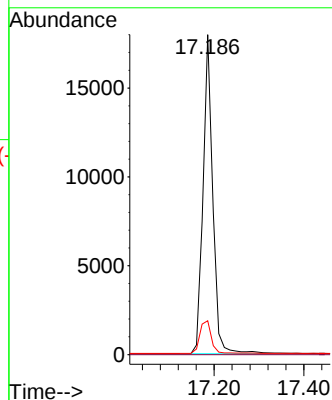
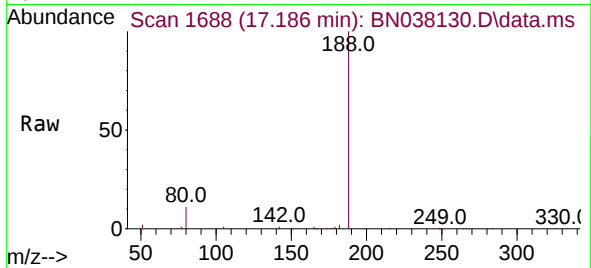




#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 17.186 min Scan# 1688  
Delta R.T. -0.000 min  
Lab File: BN038130.D  
Acq: 04 Nov 2025 10:40

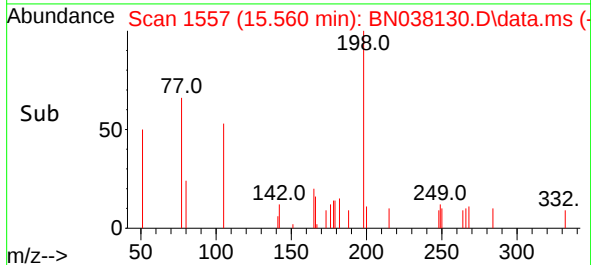
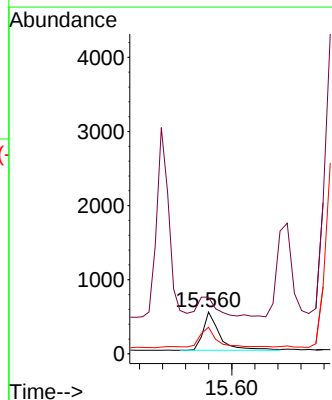
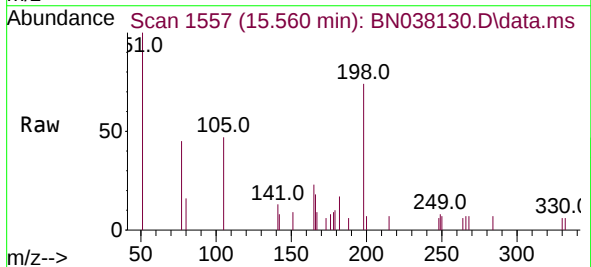
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

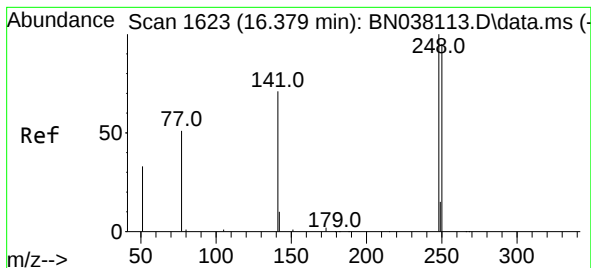
Tgt Ion:188 Resp: 27056  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 10.6 8.6 13.0



#20  
4,6-Dinitro-2-methylphenol  
Concen: 0.381 ng  
RT: 15.560 min Scan# 1557  
Delta R.T. -0.000 min  
Lab File: BN038130.D  
Acq: 04 Nov 2025 10:40

Tgt Ion:198 Resp: 1019  
Ion Ratio Lower Upper  
198 100  
51 135.4 88.9 133.3#  
105 63.4 49.2 73.8

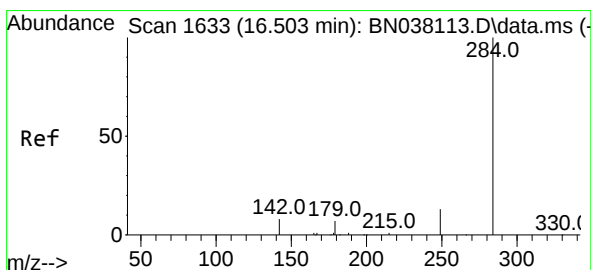
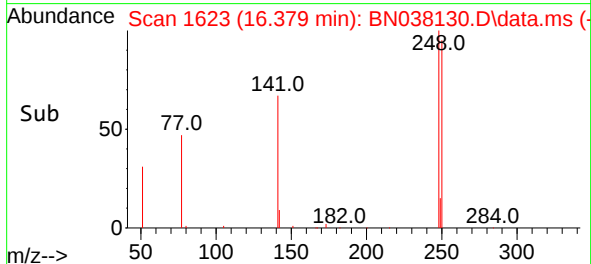
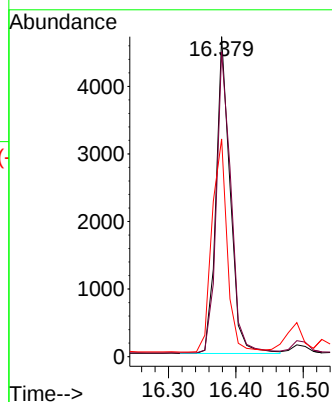
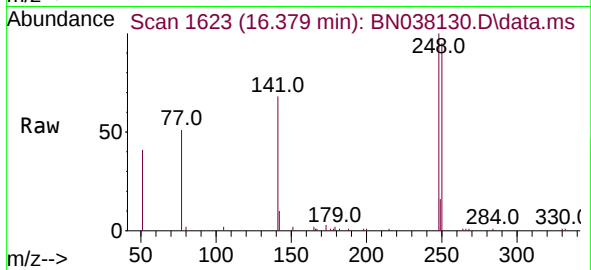




#21  
4-Bromophenyl-phenylether  
Concen: 0.386 ng  
RT: 16.379 min Scan# 1623  
Delta R.T. -0.000 min  
Lab File: BN038130.D  
Acq: 04 Nov 2025 10:40

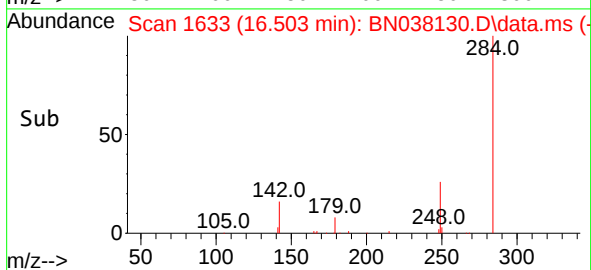
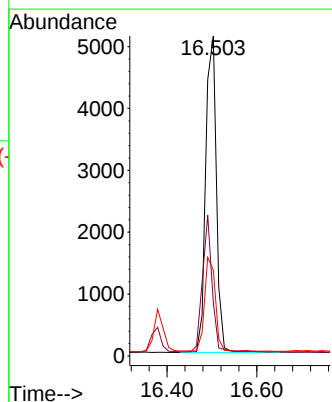
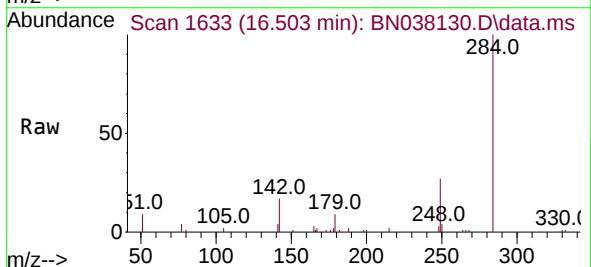
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

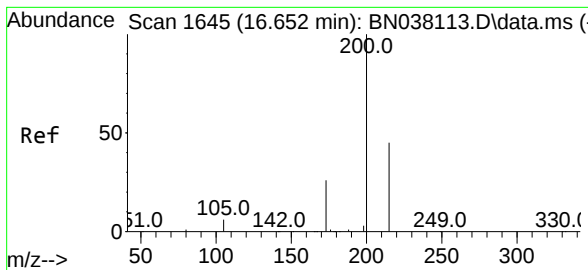
Tgt Ion:248 Resp: 6844  
Ion Ratio Lower Upper  
248 100  
250 95.3 76.2 114.2  
141 68.0 57.6 86.4



#22  
Hexachlorobenzene  
Concen: 0.421 ng  
RT: 16.503 min Scan# 1633  
Delta R.T. -0.000 min  
Lab File: BN038130.D  
Acq: 04 Nov 2025 10:40

Tgt Ion:284 Resp: 8492  
Ion Ratio Lower Upper  
284 100  
142 38.3 30.5 45.7  
249 29.5 23.5 35.3





#23

Atrazine

Concen: 0.336 ng

RT: 16.652 min Scan# 1645

Delta R.T. -0.000 min

Lab File: BN038130.D

Acq: 04 Nov 2025 10:40

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

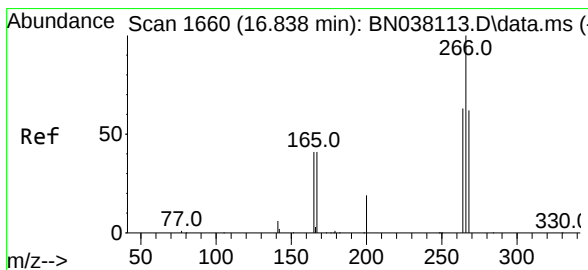
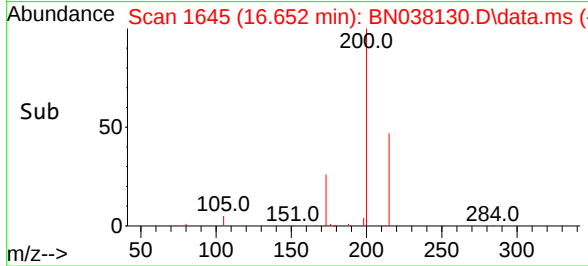
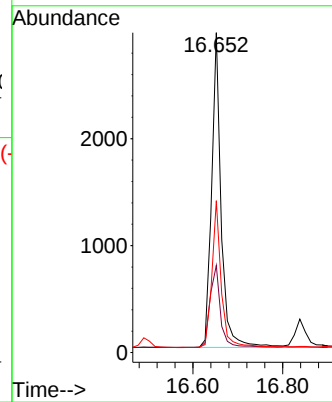
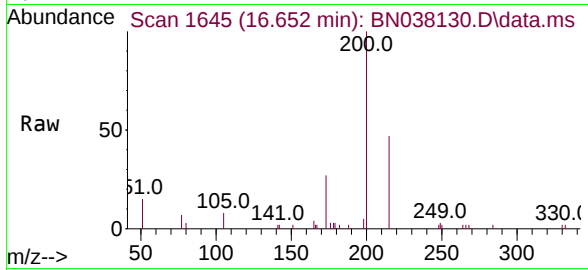
Tgt Ion:200 Resp: 4361

Ion Ratio Lower Upper

200 100

173 27.2 21.4 32.2

215 47.5 36.7 55.1



#24

Pentachlorophenol

Concen: 0.290 ng

RT: 16.838 min Scan# 1660

Delta R.T. -0.000 min

Lab File: BN038130.D

Acq: 04 Nov 2025 10:40

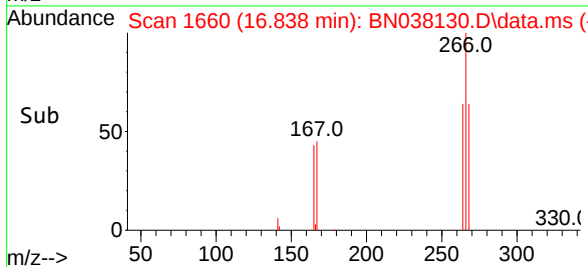
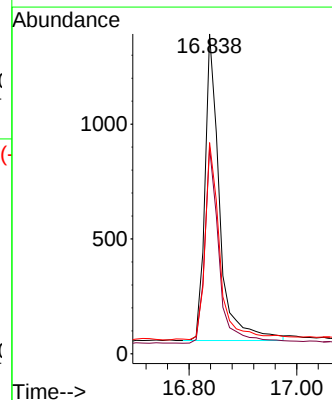
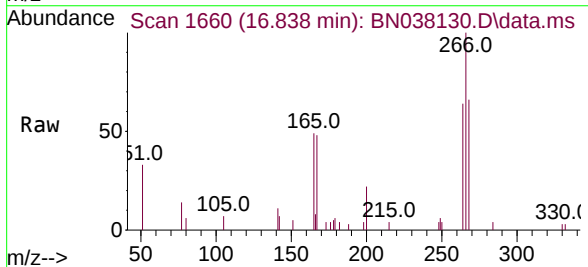
Tgt Ion:266 Resp: 2516

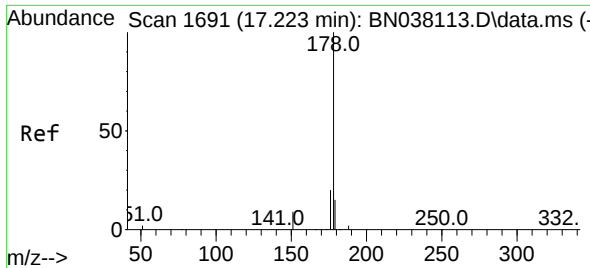
Ion Ratio Lower Upper

266 100

264 62.4 49.3 73.9

268 65.6 50.6 75.8

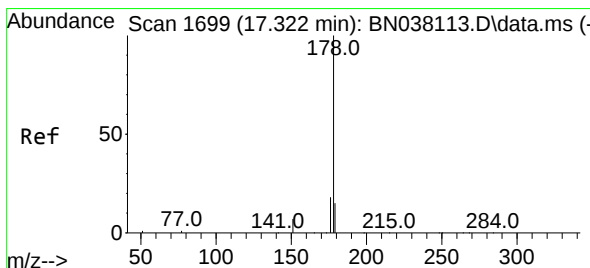
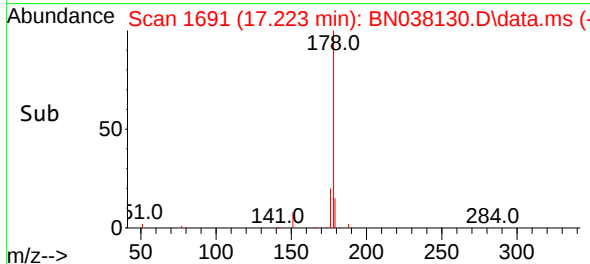
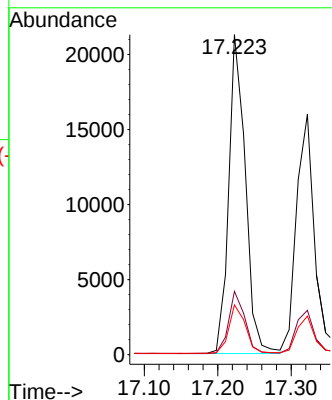
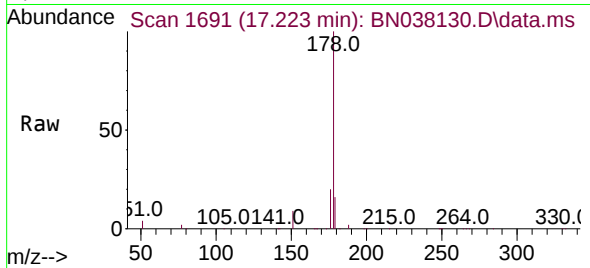




#25  
Phenanthrene  
Concen: 0.391 ng  
RT: 17.223 min Scan# 1691  
Delta R.T. -0.000 min  
Lab File: BN038130.D  
Acq: 04 Nov 2025 10:40

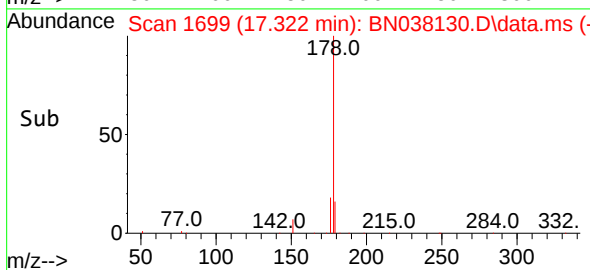
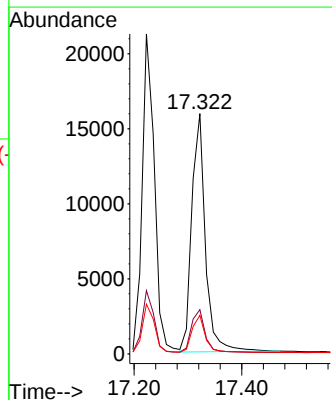
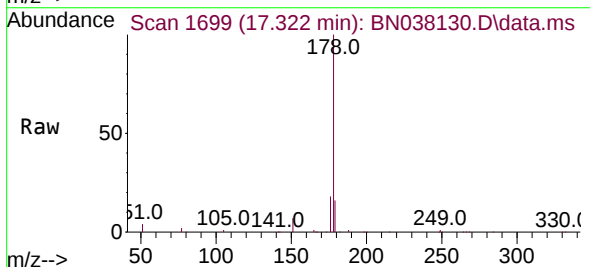
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

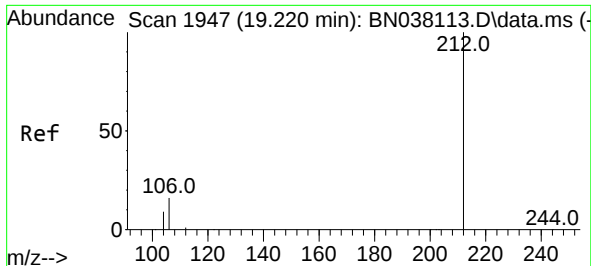
Tgt Ion:178 Resp: 33589  
Ion Ratio Lower Upper  
178 100  
176 19.3 15.5 23.3  
179 15.5 12.2 18.4



#26  
Anthracene  
Concen: 0.371 ng  
RT: 17.322 min Scan# 1699  
Delta R.T. -0.000 min  
Lab File: BN038130.D  
Acq: 04 Nov 2025 10:40

Tgt Ion:178 Resp: 27861  
Ion Ratio Lower Upper  
178 100  
176 18.5 14.9 22.3  
179 15.3 11.8 17.8

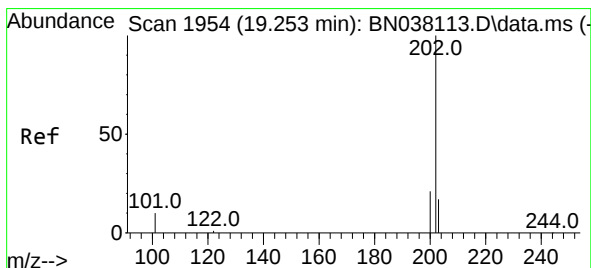
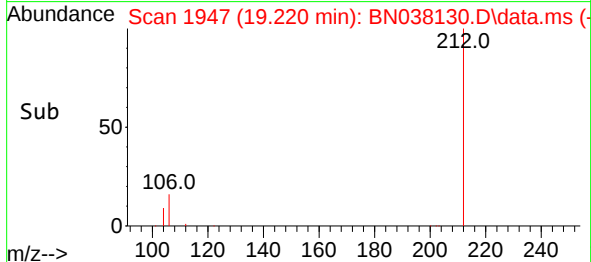
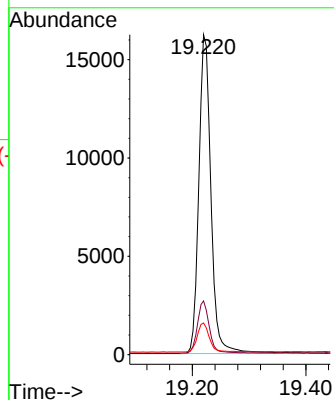
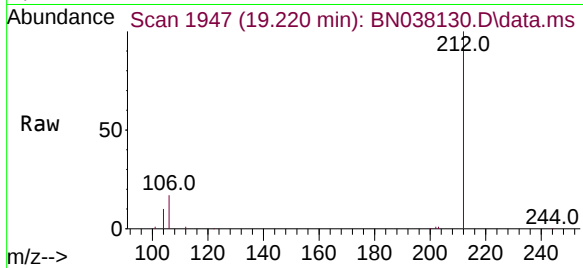




#27  
Fluoranthene-d10  
Concen: 0.352 ng  
RT: 19.220 min Scan# 1947  
Delta R.T. -0.000 min  
Lab File: BN038130.D  
Acq: 04 Nov 2025 10:40

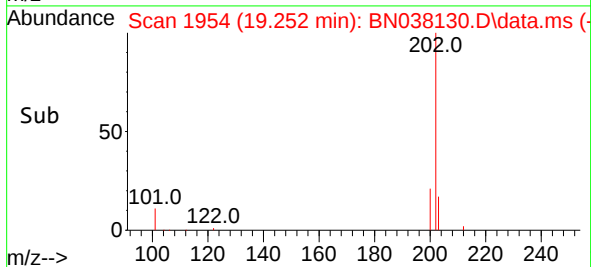
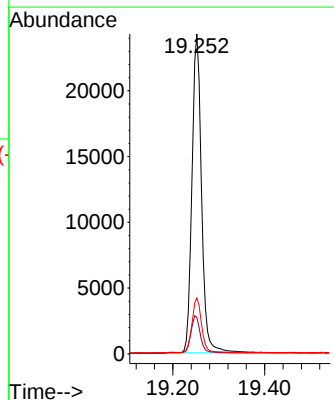
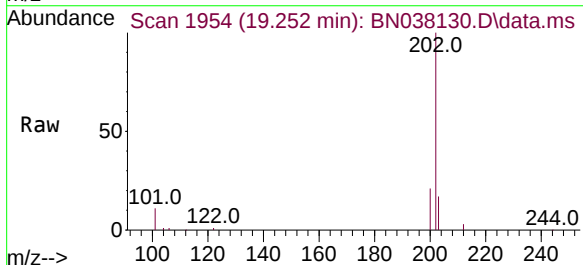
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

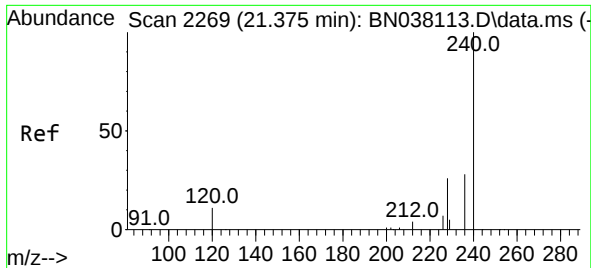
Tgt Ion:212 Resp: 24042  
Ion Ratio Lower Upper  
212 100  
106 16.2 12.6 19.0  
104 9.1 7.1 10.7



#28  
Fluoranthene  
Concen: 0.366 ng  
RT: 19.252 min Scan# 1954  
Delta R.T. -0.000 min  
Lab File: BN038130.D  
Acq: 04 Nov 2025 10:40

Tgt Ion:202 Resp: 35123  
Ion Ratio Lower Upper  
202 100  
101 11.9 9.4 14.2  
203 16.9 13.4 20.2

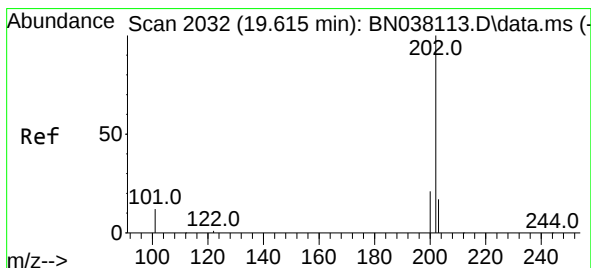
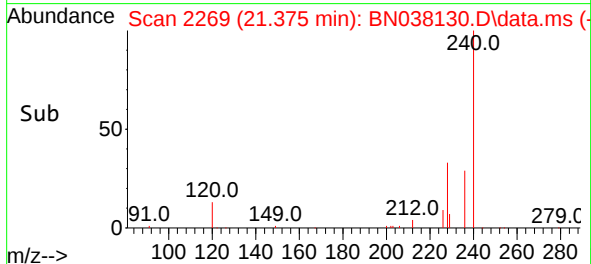
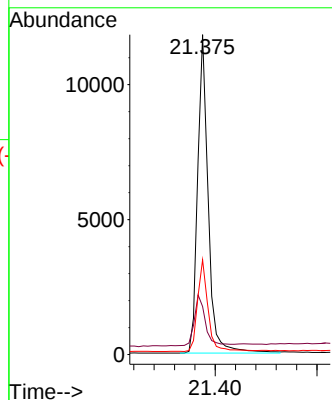
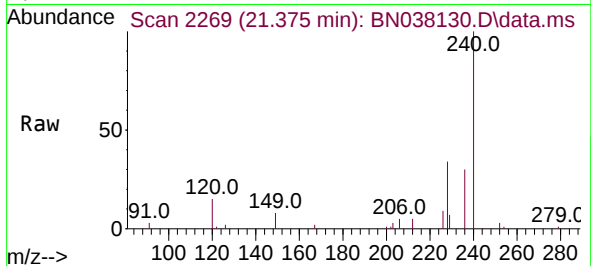




#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.375 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: BN038130.D  
Acq: 04 Nov 2025 10:40

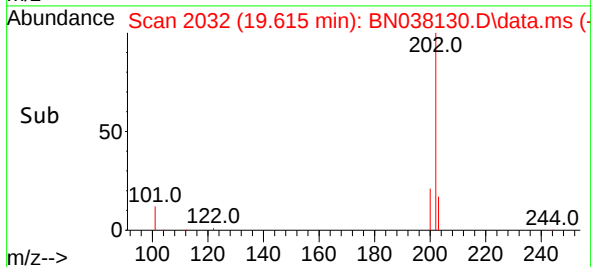
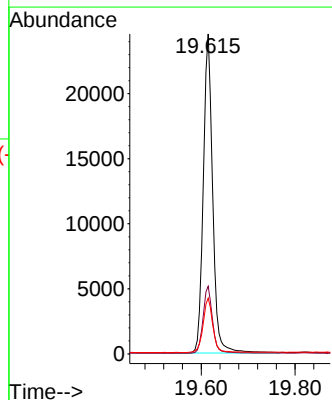
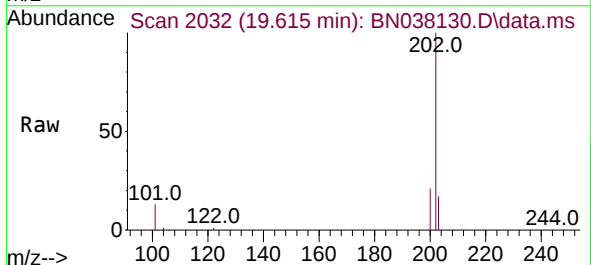
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

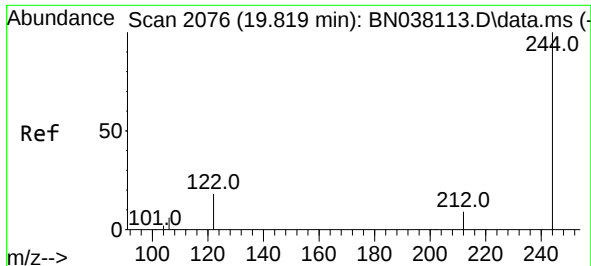
Tgt Ion:240 Resp: 17059  
Ion Ratio Lower Upper  
240 100  
120 15.0 10.7 16.1  
236 29.6 23.1 34.7



#30  
Pyrene  
Concen: 0.443 ng  
RT: 19.615 min Scan# 2032  
Delta R.T. 0.004 min  
Lab File: BN038130.D  
Acq: 04 Nov 2025 10:40

Tgt Ion:202 Resp: 34116  
Ion Ratio Lower Upper  
202 100  
200 21.1 16.7 25.1  
203 17.8 14.2 21.2

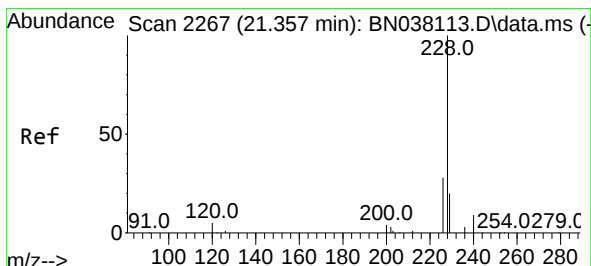
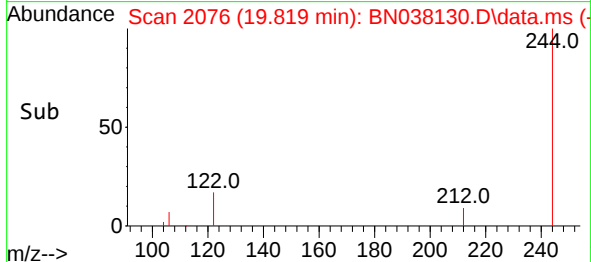
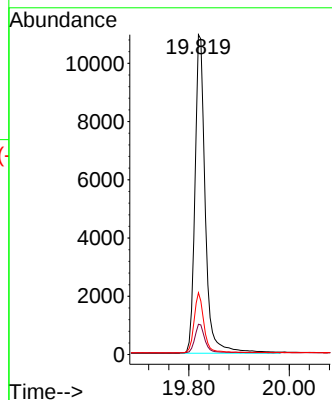
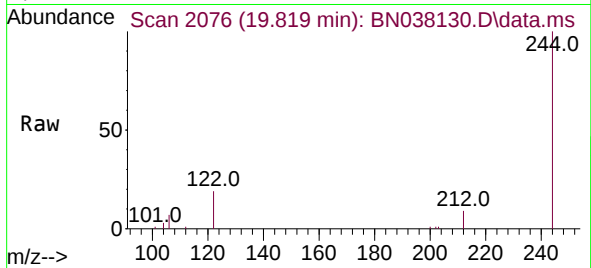




#31  
 Terphenyl-d14  
 Concen: 0.421 ng  
 RT: 19.819 min Scan# 2076  
 Delta R.T. -0.000 min  
 Lab File: BN038130.D  
 Acq: 04 Nov 2025 10:40

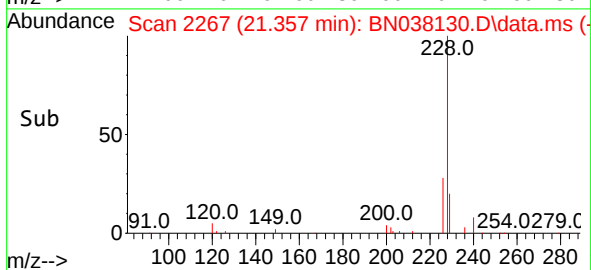
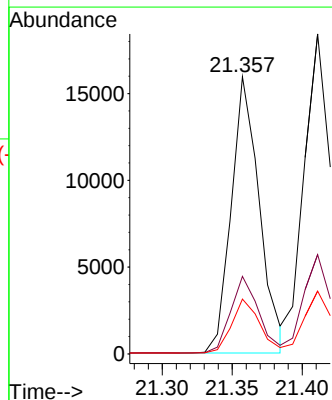
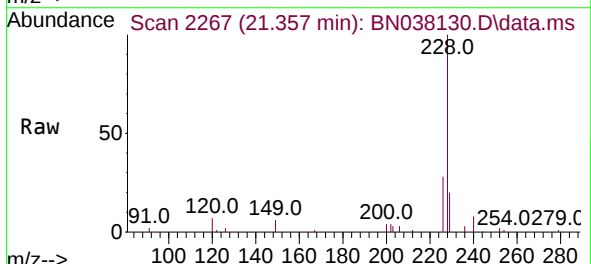
Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4

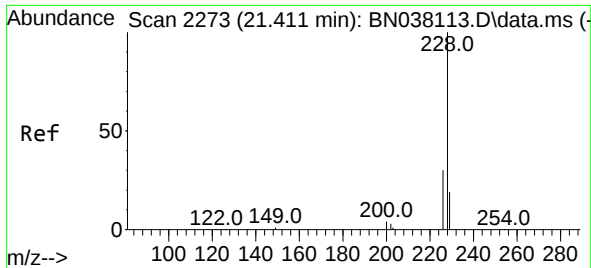
Tgt Ion:244 Resp: 15620  
 Ion Ratio Lower Upper  
 244 100  
 212 9.5 7.8 11.6  
 122 19.3 15.2 22.8



#32  
 Benzo(a)anthracene  
 Concen: 0.365 ng  
 RT: 21.357 min Scan# 2267  
 Delta R.T. -0.000 min  
 Lab File: BN038130.D  
 Acq: 04 Nov 2025 10:40

Tgt Ion:228 Resp: 22233  
 Ion Ratio Lower Upper  
 228 100  
 226 28.0 22.2 33.4  
 229 19.8 15.8 23.8

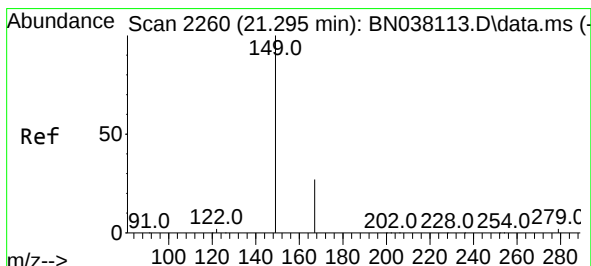
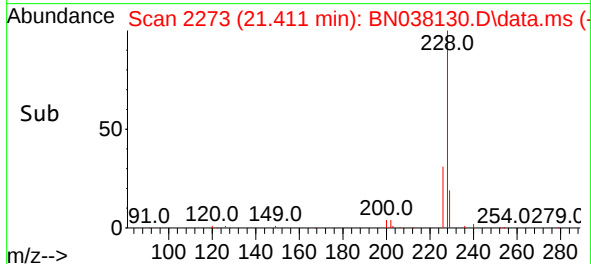
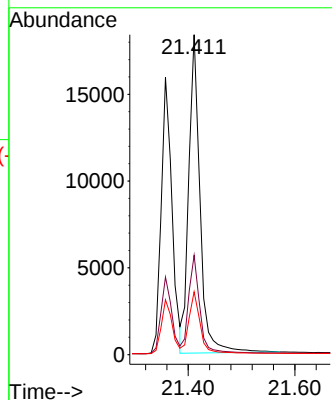
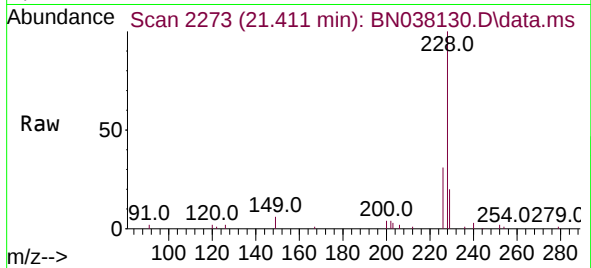




#33  
Chrysene  
Concen: 0.408 ng  
RT: 21.411 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: BN038130.D  
Acq: 04 Nov 2025 10:40

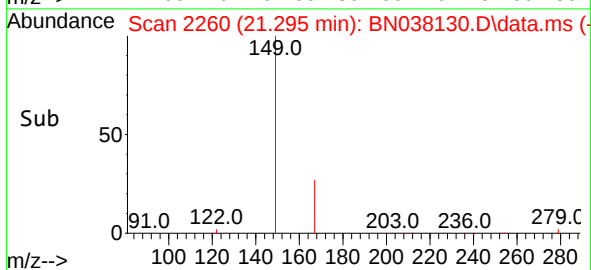
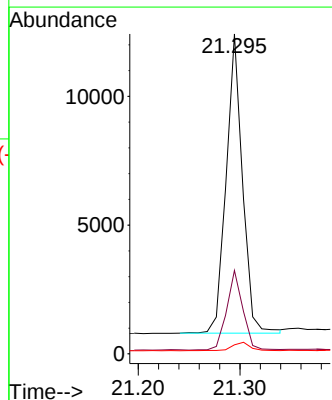
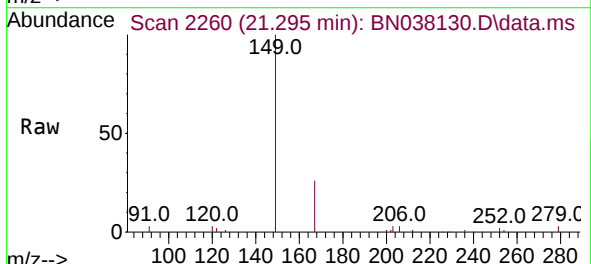
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

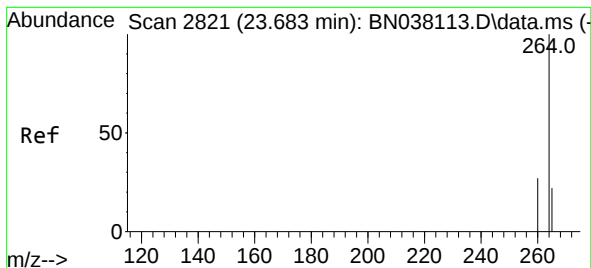
Tgt Ion:228 Resp: 26943  
Ion Ratio Lower Upper  
228 100  
226 31.0 24.3 36.5  
229 19.6 15.7 23.5



#34  
Bis(2-ethylhexyl)phthalate  
Concen: 0.405 ng  
RT: 21.295 min Scan# 2260  
Delta R.T. -0.000 min  
Lab File: BN038130.D  
Acq: 04 Nov 2025 10:40

Tgt Ion:149 Resp: 12992  
Ion Ratio Lower Upper  
149 100  
167 26.4 21.1 31.7  
279 3.2 2.9 4.3





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.686 min Scan# 2821

Delta R.T. 0.006 min

Lab File: BN038130.D

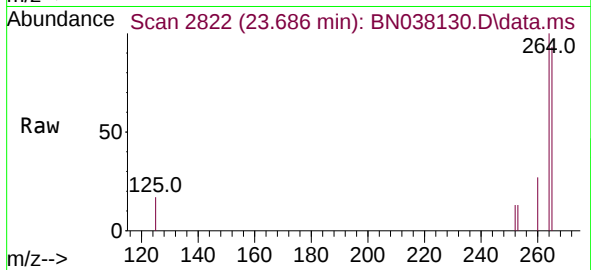
Acq: 04 Nov 2025 10:40

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4



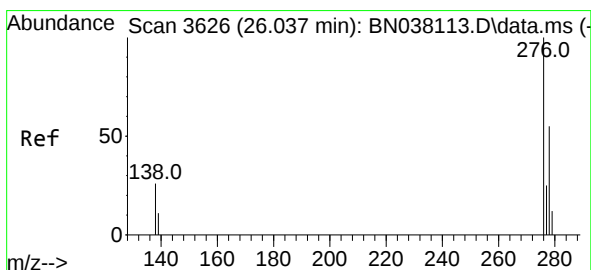
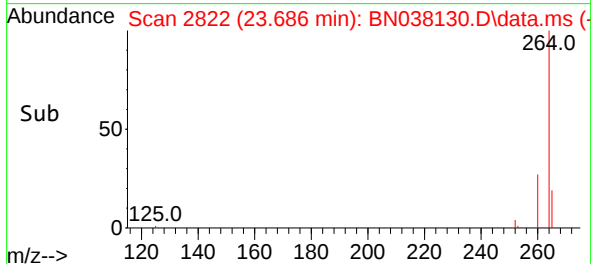
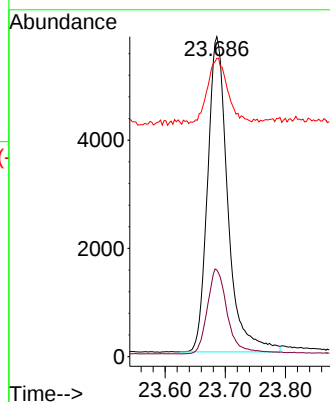
Tgt Ion:264 Resp: 13607

Ion Ratio Lower Upper

264 100

260 27.1 21.8 32.8

265 93.2 68.6 102.8



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.426 ng

RT: 26.036 min Scan# 3626

Delta R.T. 0.003 min

Lab File: BN038130.D

Acq: 04 Nov 2025 10:40

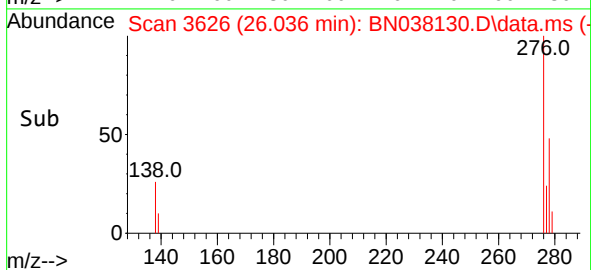
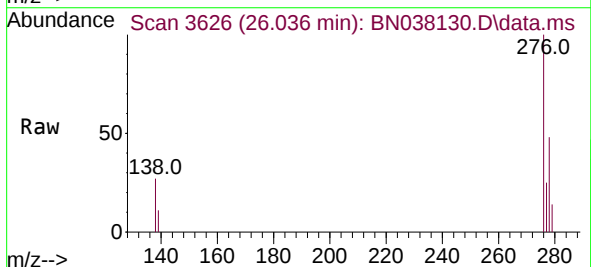
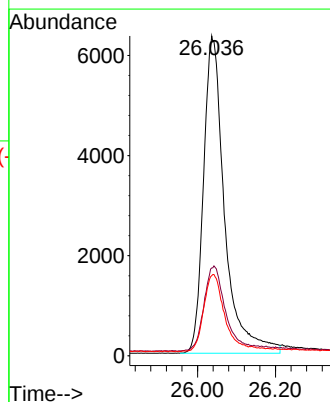
Tgt Ion:276 Resp: 23804

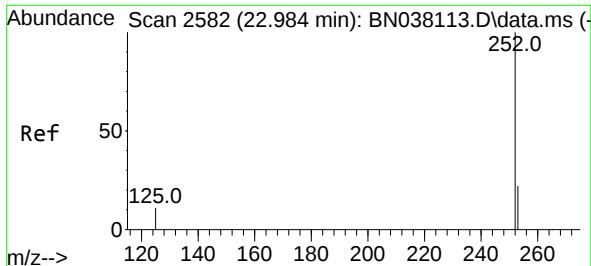
Ion Ratio Lower Upper

276 100

138 27.4 21.4 32.0

277 23.7 19.2 28.8





#37

Benzo(b)fluoranthene

Concen: 0.400 ng

RT: 22.987 min Scan# 2582

Delta R.T. 0.006 min

Lab File: BN038130.D

Acq: 04 Nov 2025 10:40

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

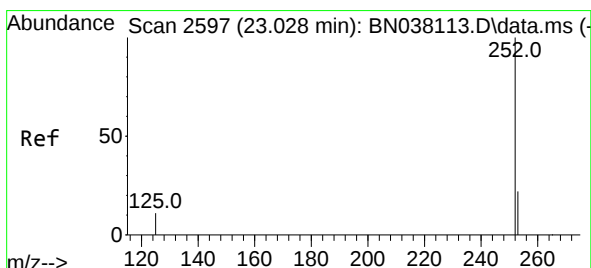
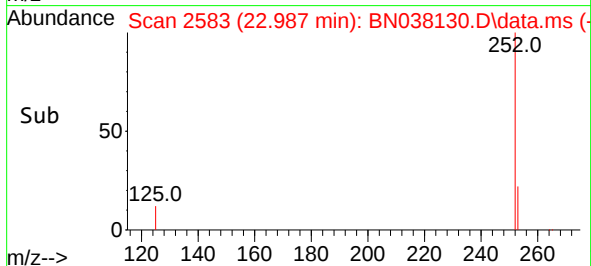
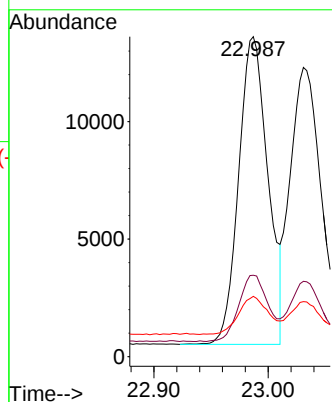
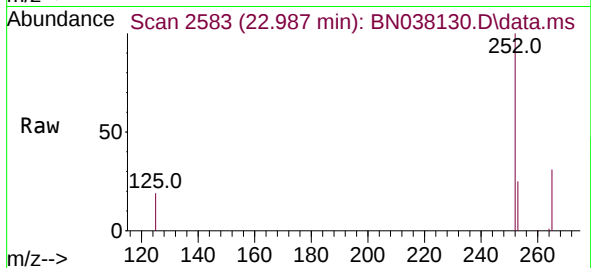
Tgt Ion:252 Resp: 23288

Ion Ratio Lower Upper

252 100

253 25.4 20.9 31.3

125 18.8 14.1 21.1



#38

Benzo(k)fluoranthene

Concen: 0.408 ng

RT: 23.031 min Scan# 2598

Delta R.T. 0.003 min

Lab File: BN038130.D

Acq: 04 Nov 2025 10:40

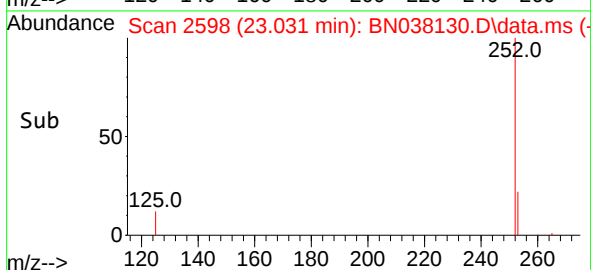
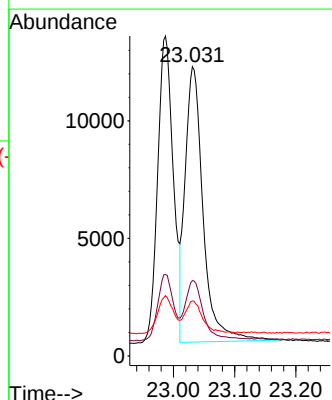
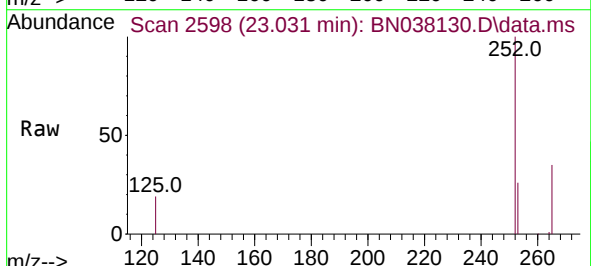
Tgt Ion:252 Resp: 23877

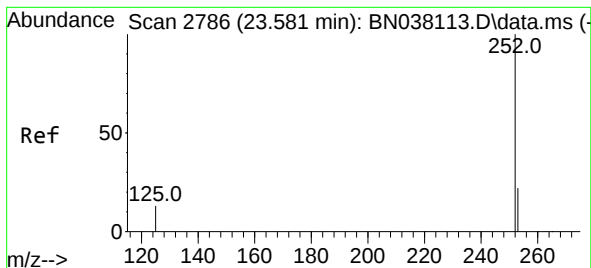
Ion Ratio Lower Upper

252 100

253 26.0 21.2 31.8

125 19.0 14.6 22.0





#39

Benzo(a)pyrene

Concen: 0.396 ng

RT: 23.583 min Scan# 21

Delta R.T. 0.006 min

Lab File: BN038130.D

Acq: 04 Nov 2025 10:40

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

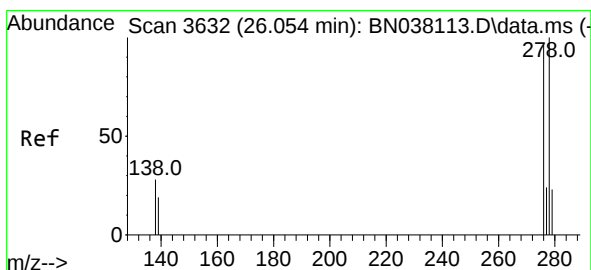
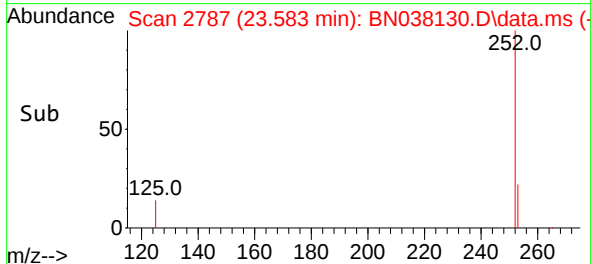
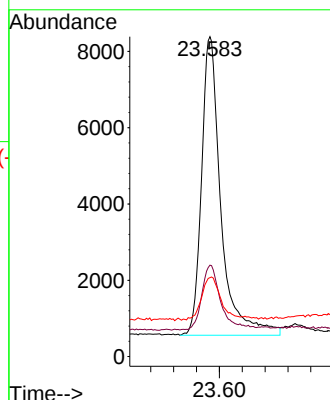
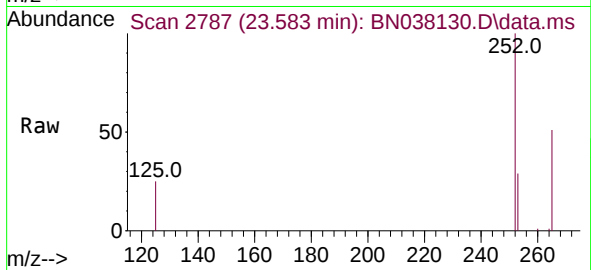
Tgt Ion:252 Resp: 18445

Ion Ratio Lower Upper

252 100

253 28.6 23.1 34.7

125 24.7 18.6 28.0



#40

Dibenzo(a,h)anthracene

Concen: 0.427 ng

RT: 26.054 min Scan# 3632

Delta R.T. 0.006 min

Lab File: BN038130.D

Acq: 04 Nov 2025 10:40

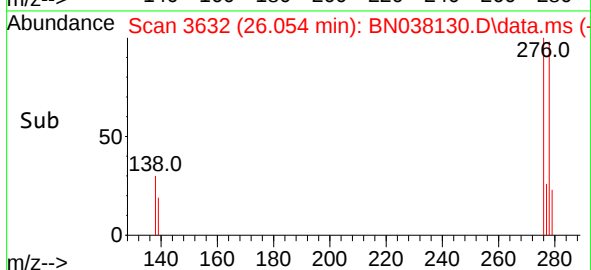
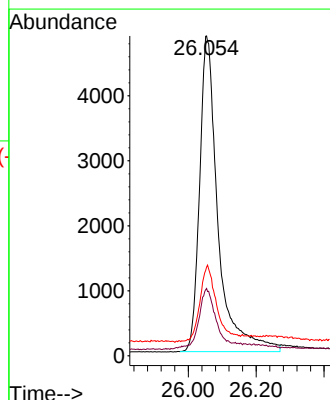
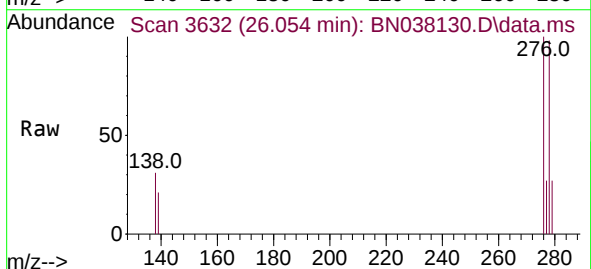
Tgt Ion:278 Resp: 18347

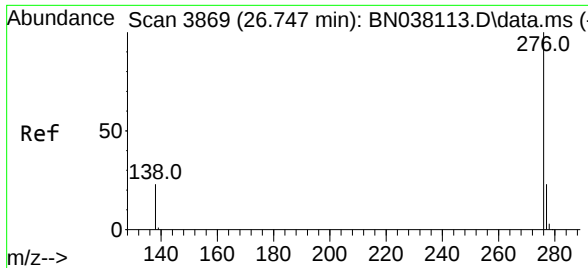
Ion Ratio Lower Upper

278 100

139 21.1 17.6 26.4

279 27.8 22.6 33.8

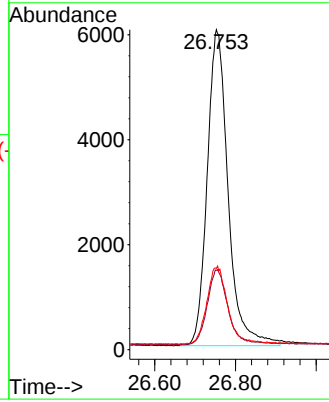
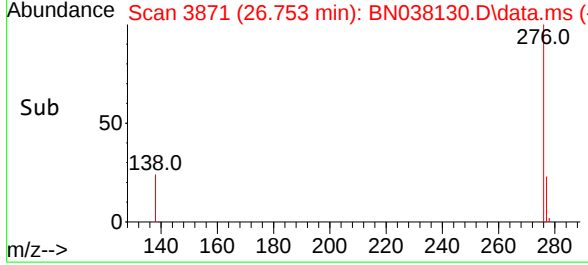
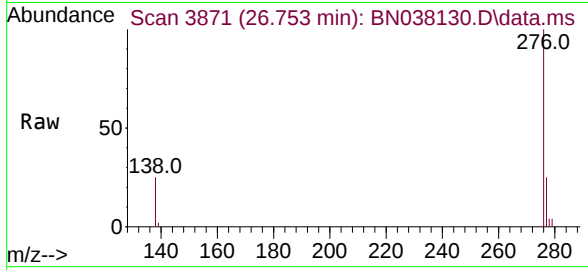




#41  
Benzo(g,h,i)perylene  
Concen: 0.441 ng  
RT: 26.753 min Scan# 38  
Delta R.T. 0.003 min  
Lab File: BN038130.D  
Acq: 04 Nov 2025 10:40

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

Tgt Ion:276 Resp: 21656  
Ion Ratio Lower Upper  
276 100  
277 24.8 19.7 29.5  
138 25.4 20.2 30.4



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN110425\  
 Data File : BN038130.D  
 Acq On : 04 Nov 2025 10:40  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 LabSampleId :  
 SSTDCCC0.4

Quant Time: Nov 04 11:42:01 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN102825.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Oct 29 13:09:46 2025  
 Response via : Initial Calibration

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

|         | Compound                   | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|---------|----------------------------|-------|-------|-------|-------|----------|
| 1 I     | 1,4-Dichlorobenzene-d4     | 1.000 | 1.000 | 0.0   | 94    | 0.00     |
| 2       | 1,4-Dioxane                | 0.413 | 0.433 | -4.8  | 96    | 0.00     |
| 3       | n-Nitrosodimethylamine     | 0.532 | 0.528 | 0.8   | 92    | 0.00     |
| 4 S     | 2-Fluorophenol             | 0.942 | 0.856 | 9.1   | 84    | 0.00     |
| 5 S     | Phenol-d6                  | 1.148 | 1.025 | 10.7  | 85    | 0.00     |
| 6       | bis(2-Chloroethyl)ether    | 1.128 | 1.112 | 1.4   | 92    | 0.00     |
| 7 I     | Naphthalene-d8             | 1.000 | 1.000 | 0.0   | 90    | 0.00     |
| 8 S     | Nitrobenzene-d5            | 0.323 | 0.277 | 14.2  | 80    | 0.00     |
| 9       | Naphthalene                | 1.102 | 1.085 | 1.5   | 91    | 0.00     |
| 10      | Hexachlorobutadiene        | 0.186 | 0.190 | -2.2  | 92    | 0.00     |
| 11 SURR | 2-Methylnaphthalene-d10    | 0.571 | 0.541 | 5.3   | 89    | 0.00     |
| 12      | 2-Methylnaphthalene        | 0.735 | 0.711 | 3.3   | 91    | 0.00     |
| 13 I    | Acenaphthene-d10           | 1.000 | 1.000 | 0.0   | 90    | 0.01     |
| 14 S    | 2,4,6-Tribromophenol       | 0.165 | 0.134 | 18.8  | 81    | 0.00     |
| 15 S    | 2-Fluorobiphenyl           | 1.602 | 1.514 | 5.5   | 86    | 0.01     |
| 16      | Acenaphthylene             | 1.811 | 1.754 | 3.1   | 92    | 0.00     |
| 17      | Acenaphthene               | 1.267 | 1.211 | 4.4   | 90    | 0.00     |
| 18      | Fluorene                   | 1.661 | 1.649 | 0.7   | 93    | 0.00     |
| 19 I    | Phenanthrene-d10           | 1.000 | 1.000 | 0.0   | 92    | 0.00     |
| 20      | 4,6-Dinitro-2-methylphenol | 0.055 | 0.038 | 30.9# | 77    | 0.00     |
| 21      | 4-Bromophenyl-phenylether  | 0.262 | 0.253 | 3.4   | 93    | 0.00     |
| 22      | Hexachlorobenzene          | 0.298 | 0.314 | -5.4  | 97    | 0.00     |
| 23      | Atrazine                   | 0.192 | 0.161 | 16.1  | 84    | 0.00     |
| 24      | Pentachlorophenol          | 0.128 | 0.093 | 27.3# | 79    | 0.00     |
| 25      | Phenanthrene               | 1.270 | 1.241 | 2.3   | 93    | 0.00     |
| 26      | Anthracene                 | 1.111 | 1.030 | 7.3   | 90    | 0.00     |
| 27 SURR | Fluoranthene-d10           | 1.009 | 0.889 | 11.9  | 85    | 0.00     |
| 28      | Fluoranthene               | 1.419 | 1.298 | 8.5   | 89    | 0.00     |
| 29 I    | Chrysene-d12               | 1.000 | 1.000 | 0.0   | 79    | 0.00     |
| 30      | Pyrene                     | 1.806 | 2.000 | -10.7 | 86    | 0.00     |
| 31 S    | Terphenyl-d14              | 0.869 | 0.916 | -5.4  | 83    | 0.00     |
| 32      | Benzo(a)anthracene         | 1.427 | 1.303 | 8.7   | 76    | 0.00     |
| 33      | Chrysene                   | 1.549 | 1.579 | -1.9  | 81    | 0.00     |
| 34      | Bis(2-ethylhexyl)phthalate | 0.752 | 0.762 | -1.3  | 84    | 0.00     |
| 35 I    | Perylene-d12               | 1.000 | 1.000 | 0.0   | 76    | 0.00     |
| 36      | Indeno(1,2,3-cd)pyrene     | 1.643 | 1.749 | -6.5  | 83    | 0.00     |
| 37      | Benzo(b)fluoranthene       | 1.710 | 1.711 | -0.1  | 80    | 0.00     |
| 38      | Benzo(k)fluoranthene       | 1.721 | 1.755 | -2.0  | 82    | 0.00     |
| 39 C    | Benzo(a)pyrene             | 1.369 | 1.356 | 0.9   | 78    | 0.00     |
| 40      | Dibenzo(a,h)anthracene     | 1.265 | 1.348 | -6.6  | 85    | 0.00     |
| 41      | Benzo(g,h,i)perylene       | 1.444 | 1.592 | -10.2 | 85    | 0.00     |

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN110425\  
 Data File : BN038130.D  
 Acq On : 04 Nov 2025 10:40  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 LabSampleId :  
 SSTDCCC0.4

Quant Time: Nov 04 11:42:01 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN102825.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Oct 29 13:09:46 2025  
 Response via : Initial Calibration

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

|         | Compound                   | Amount | Calc. | %Dev  | Area% | Dev(min) |
|---------|----------------------------|--------|-------|-------|-------|----------|
| 1 I     | 1,4-Dichlorobenzene-d4     | 0.400  | 0.400 | 0.0   | 94    | 0.00     |
| 2       | 1,4-Dioxane                | 0.400  | 0.419 | -4.7  | 96    | 0.00     |
| 3       | n-Nitrosodimethylamine     | 0.400  | 0.397 | 0.8   | 92    | 0.00     |
| 4 S     | 2-Fluorophenol             | 0.400  | 0.363 | 9.3   | 84    | 0.00     |
| 5 S     | Phenol-d6                  | 0.400  | 0.357 | 10.8  | 85    | 0.00     |
| 6       | bis(2-Chloroethyl)ether    | 0.400  | 0.394 | 1.5   | 92    | 0.00     |
| 7 I     | Naphthalene-d8             | 0.400  | 0.400 | 0.0   | 90    | 0.00     |
| 8 S     | Nitrobenzene-d5            | 0.400  | 0.343 | 14.2  | 80    | 0.00     |
| 9       | Naphthalene                | 0.400  | 0.394 | 1.5   | 91    | 0.00     |
| 10      | Hexachlorobutadiene        | 0.400  | 0.409 | -2.2  | 92    | 0.00     |
| 11 SURR | 2-Methylnaphthalene-d10    | 0.400  | 0.379 | 5.3   | 89    | 0.00     |
| 12      | 2-Methylnaphthalene        | 0.400  | 0.387 | 3.3   | 91    | 0.00     |
| 13 I    | Acenaphthene-d10           | 0.400  | 0.400 | 0.0   | 90    | 0.01     |
| 14 S    | 2,4,6-Tribromophenol       | 0.400  | 0.326 | 18.5  | 81    | 0.00     |
| 15 S    | 2-Fluorobiphenyl           | 0.400  | 0.378 | 5.5   | 86    | 0.01     |
| 16      | Acenaphthylene             | 0.400  | 0.387 | 3.3   | 92    | 0.00     |
| 17      | Acenaphthene               | 0.400  | 0.382 | 4.5   | 90    | 0.00     |
| 18      | Fluorene                   | 0.400  | 0.397 | 0.8   | 93    | 0.00     |
| 19 I    | Phenanthrene-d10           | 0.400  | 0.400 | 0.0   | 92    | 0.00     |
| 20      | 4,6-Dinitro-2-methylphenol | 0.400  | 0.381 | 4.8   | 77    | 0.00     |
| 21      | 4-Bromophenyl-phenylether  | 0.400  | 0.386 | 3.5   | 93    | 0.00     |
| 22      | Hexachlorobenzene          | 0.400  | 0.421 | -5.2  | 97    | 0.00     |
| 23      | Atrazine                   | 0.400  | 0.336 | 16.0  | 84    | 0.00     |
| 24      | Pentachlorophenol          | 0.400  | 0.290 | 27.5# | 79    | 0.00     |
| 25      | Phenanthrene               | 0.400  | 0.391 | 2.3   | 93    | 0.00     |
| 26      | Anthracene                 | 0.400  | 0.371 | 7.3   | 90    | 0.00     |
| 27 SURR | Fluoranthene-d10           | 0.400  | 0.352 | 12.0  | 85    | 0.00     |
| 28      | Fluoranthene               | 0.400  | 0.366 | 8.5   | 89    | 0.00     |
| 29 I    | Chrysene-d12               | 0.400  | 0.400 | 0.0   | 79    | 0.00     |
| 30      | Pyrene                     | 0.400  | 0.443 | -10.7 | 86    | 0.00     |
| 31 S    | Terphenyl-d14              | 0.400  | 0.421 | -5.2  | 83    | 0.00     |
| 32      | Benzo(a)anthracene         | 0.400  | 0.365 | 8.8   | 76    | 0.00     |
| 33      | Chrysene                   | 0.400  | 0.408 | -2.0  | 81    | 0.00     |
| 34      | Bis(2-ethylhexyl)phthalate | 0.400  | 0.405 | -1.3  | 84    | 0.00     |
| 35 I    | Perylene-d12               | 0.400  | 0.400 | 0.0   | 76    | 0.00     |
| 36      | Indeno(1,2,3-cd)pyrene     | 0.400  | 0.426 | -6.5  | 83    | 0.00     |
| 37      | Benzo(b)fluoranthene       | 0.400  | 0.400 | 0.0   | 80    | 0.00     |
| 38      | Benzo(k)fluoranthene       | 0.400  | 0.408 | -2.0  | 82    | 0.00     |
| 39 C    | Benzo(a)pyrene             | 0.400  | 0.396 | 1.0   | 78    | 0.00     |
| 40      | Dibenzo(a,h)anthracene     | 0.400  | 0.427 | -6.7  | 85    | 0.00     |
| 41      | Benzo(g,h,i)perylene       | 0.400  | 0.441 | -10.2 | 85    | 0.00     |

(#) = Out of Range

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

|                 |                     |                        |                              |
|-----------------|---------------------|------------------------|------------------------------|
| Lab Name:       | <u>Alliance</u>     | Contract:              | <u>TETR06</u>                |
| Lab Code:       | <u>ACE</u>          | SDG No.:               | <u>Q3526</u>                 |
| Instrument ID:  | <u>BNA_N</u>        | Calibration Date/Time: | <u>11/04/2025 20:12</u>      |
| Lab File ID:    | <u>BN038145.D</u>   | Init. Calib. Date(s):  | <u>10/28/2025 10/28/2025</u> |
| EPA Sample No.: | <u>SSTDCCC0.4EC</u> | Init. Calib. Time(s):  | <u>13:00 16:38</u>           |
| GC Column:      | <u>ZB-GR</u>        | ID:                    | <u>0.25</u> (mm)             |

| COMPOUND                | RRF   | RRF0.4 | MIN<br>RRF | %D    | MAX%D |
|-------------------------|-------|--------|------------|-------|-------|
| 2-Methylnaphthalene-d10 | 0.571 | 0.538  |            | -5.8  | 50.0  |
| Fluoranthene-d10        | 1.008 | 0.826  |            | -18.1 | 50.0  |
| 2-Fluorophenol          | 0.943 | 0.881  |            | -6.6  | 50.0  |
| Phenol-d6               | 1.148 | 1.042  |            | -9.2  | 50.0  |
| Nitrobenzene-d5         | 0.323 | 0.273  |            | -15.5 | 50.0  |
| 2-Fluorobiphenyl        | 1.602 | 1.511  |            | -5.7  | 50.0  |
| 2,4,6-Tribromophenol    | 0.165 | 0.126  |            | -23.6 | 50.0  |
| Terphenyl-d14           | 0.869 | 0.962  |            | 10.7  | 50.0  |
| 1,4-Dioxane             | 0.416 | 0.430  |            | 3.4   | 50.0  |

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN110425\  
 Data File : BN038145.D  
 Acq On : 04 Nov 2025 20:12  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4EC

Quant Time: Nov 04 21:16:11 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN102825.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Oct 29 13:09:46 2025  
 Response via : Initial Calibration

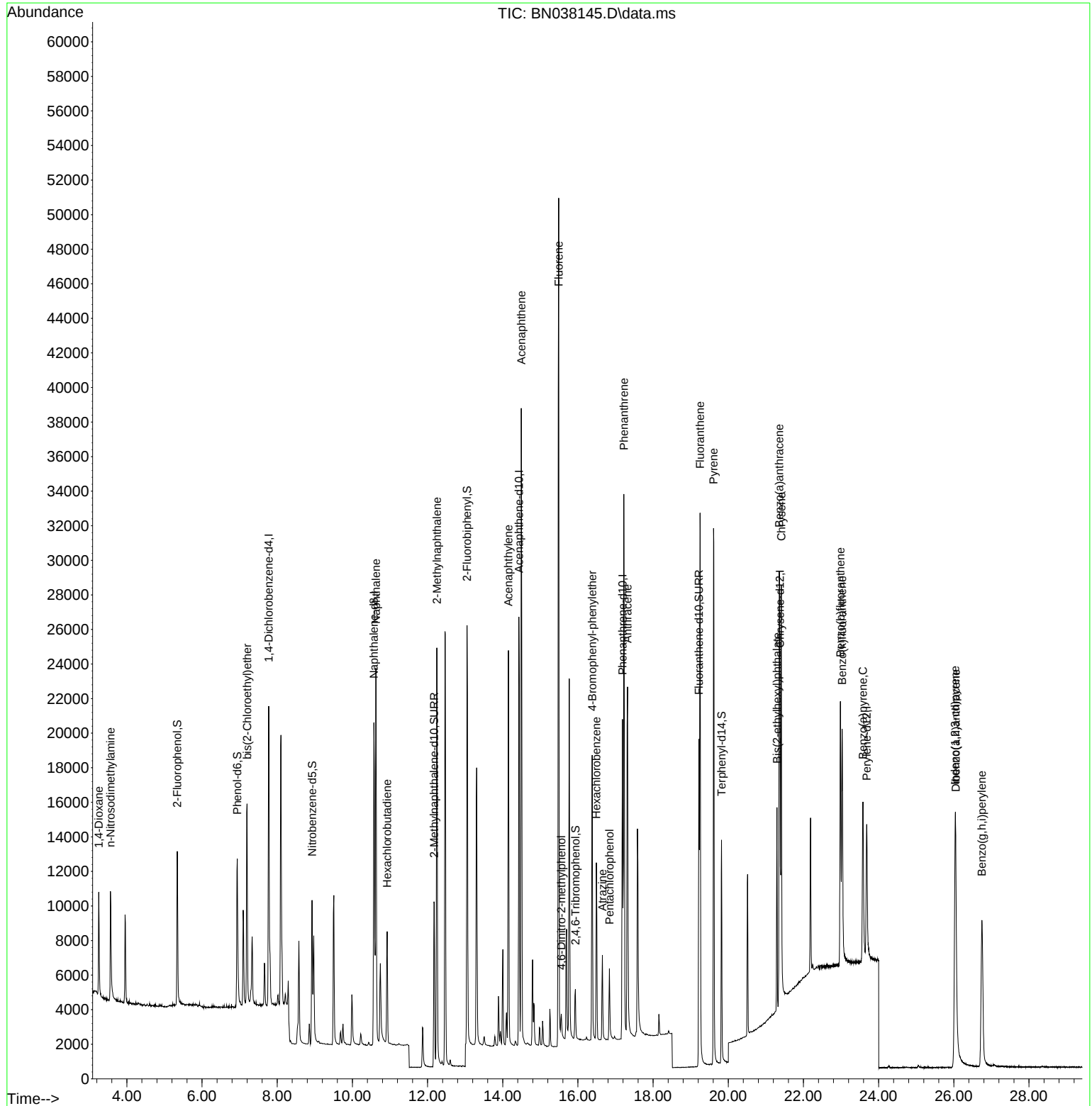
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.775  | 152  | 8830     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.573 | 136  | 26327    | 0.400 | ng    | # 0.00   |
| 13) Acenaphthene-d10          | 14.430 | 164  | 14572    | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 17.186 | 188  | 25889    | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 21.375 | 240  | 14271    | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.683 | 264  | 11979    | 0.400 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.341  | 112  | 7775     | 0.374 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.937  | 99   | 9204     | 0.363 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.929  | 82   | 7183     | 0.338 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 12.172 | 152  | 14165    | 0.377 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.932 | 330  | 1835     | 0.306 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 13.051 | 172  | 22024    | 0.377 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 19.220 | 212  | 21378    | 0.327 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.819 | 244  | 13728    | 0.443 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
|                               |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.254  | 88   | 3796     | 0.416 | ng    | 99       |
| 3) n-Nitrosodimethylamine     | 3.564  | 42   | 4631     | 0.394 | ng    | # 94     |
| 6) bis(2-Chloroethyl)ether    | 7.197  | 93   | 9767     | 0.392 | ng    | 100      |
| 9) Naphthalene                | 10.626 | 128  | 28555    | 0.394 | ng    | 100      |
| 10) Hexachlorobutadiene       | 10.925 | 225  | 5138     | 0.420 | ng    | # 99     |
| 12) 2-Methylnaphthalene       | 12.248 | 142  | 18776    | 0.388 | ng    | 99       |
| 16) Acenaphthylene            | 14.152 | 152  | 25035    | 0.379 | ng    | 100      |
| 17) Acenaphthene              | 14.494 | 154  | 17860    | 0.387 | ng    | 98       |
| 18) Fluorene                  | 15.489 | 166  | 23115    | 0.382 | ng    | 99       |
| 20) 4,6-Dinitro-2-methylph... | 15.560 | 198  | 971      | 0.380 | ng    | 94       |
| 21) 4-Bromophenyl-phenylether | 16.379 | 248  | 6744     | 0.397 | ng    | 96       |
| 22) Hexachlorobenzene         | 16.491 | 284  | 8174     | 0.423 | ng    | 99       |
| 23) Atrazine                  | 16.652 | 200  | 4191     | 0.337 | ng    | 98       |
| 24) Pentachlorophenol         | 16.838 | 266  | 2211     | 0.266 | ng    | 99       |
| 25) Phenanthrene              | 17.223 | 178  | 31983    | 0.389 | ng    | 100      |
| 26) Anthracene                | 17.322 | 178  | 26920    | 0.374 | ng    | 99       |
| 28) Fluoranthene              | 19.248 | 202  | 30682    | 0.334 | ng    | 100      |
| 30) Pyrene                    | 19.610 | 202  | 29749    | 0.462 | ng    | 100      |
| 32) Benzo(a)anthracene        | 21.357 | 228  | 19156    | 0.376 | ng    | 100      |
| 33) Chrysene                  | 21.411 | 228  | 22690    | 0.411 | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 21.295 | 149  | 10298    | 0.384 | ng    | 99       |
| 36) Indeno(1,2,3-cd)pyrene    | 26.034 | 276  | 21759    | 0.442 | ng    | 98       |
| 37) Benzo(b)fluoranthene      | 22.984 | 252  | 20105    | 0.393 | ng    | 97       |
| 38) Benzo(k)fluoranthene      | 23.028 | 252  | 20945    | 0.406 | ng    | 98       |
| 39) Benzo(a)pyrene            | 23.581 | 252  | 16258    | 0.397 | ng    | 96       |
| 40) Dibenzo(a,h)anthracene    | 26.051 | 278  | 17101    | 0.452 | ng    | 99       |
| 41) Benzo(g,h,i)perylene      | 26.747 | 276  | 19764    | 0.457 | ng    | 99       |
| -----                         |        |      |          |       |       |          |

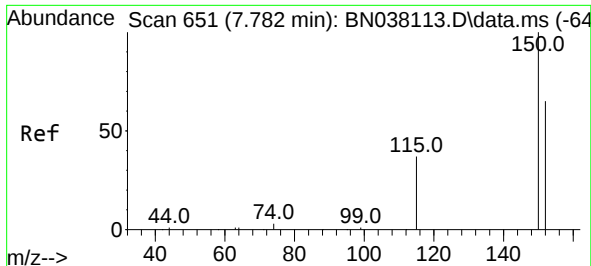
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Acq On : 04 Nov 2025 20:12  
Operator : RC/JU  
Sample : SSTDCCC0.4  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

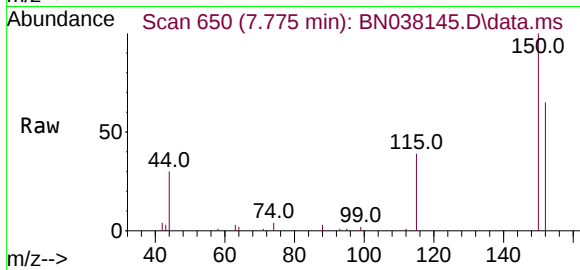
Quant Time: Nov 04 21:16:11 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN102825.M  
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QLast Update : Wed Oct 29 13:09:46 2025  
Response via : Initial Calibration





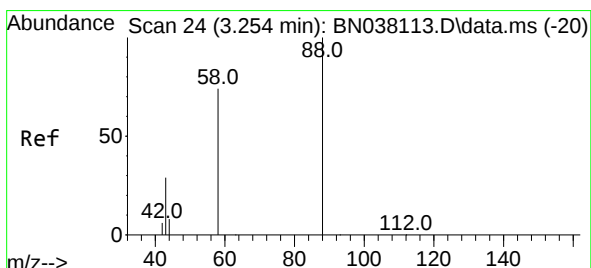
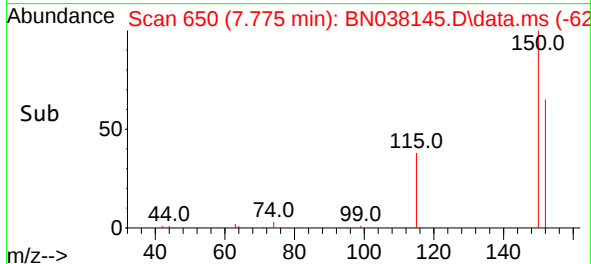
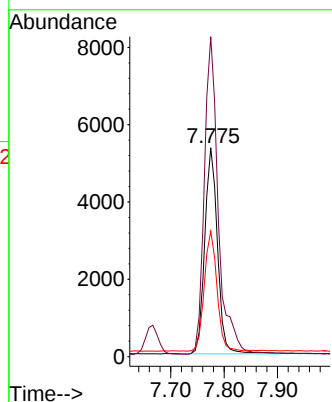
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 0.400 ng  
 RT: 7.775 min Scan# 61  
 Delta R.T. -0.000 min  
 Lab File: BN038145.D  
 Acq: 04 Nov 2025 20:12

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4EC



Tgt Ion:152 Resp: 8830

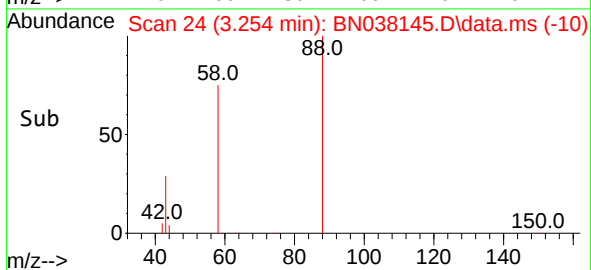
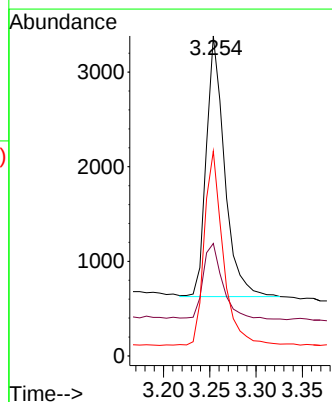
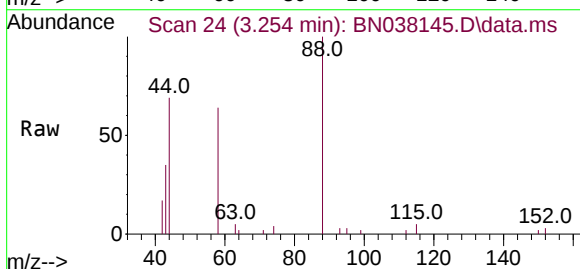
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 152 | 100   |       |       |
| 150 | 153.2 | 122.3 | 183.5 |
| 115 | 60.0  | 47.4  | 71.0  |

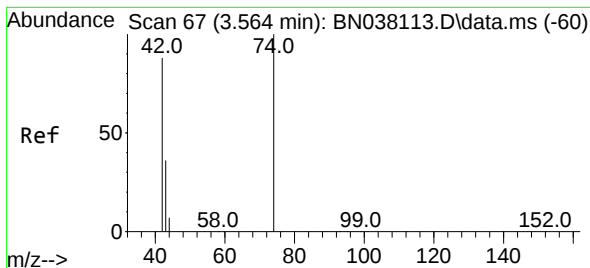


#2  
 1,4-Dioxane  
 Concen: 0.416 ng  
 RT: 3.254 min Scan# 24  
 Delta R.T. -0.000 min  
 Lab File: BN038145.D  
 Acq: 04 Nov 2025 20:12

Tgt Ion: 88 Resp: 3796

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 88  | 100   |       |       |
| 43  | 30.9  | 24.3  | 36.5  |
| 58  | 76.6  | 60.4  | 90.6  |





#3

n-Nitrosodimethylamine

Concen: 0.394 ng

RT: 3.564 min Scan# 61

Delta R.T. 0.007 min

Lab File: BN038145.D

Acq: 04 Nov 2025 20:12

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC

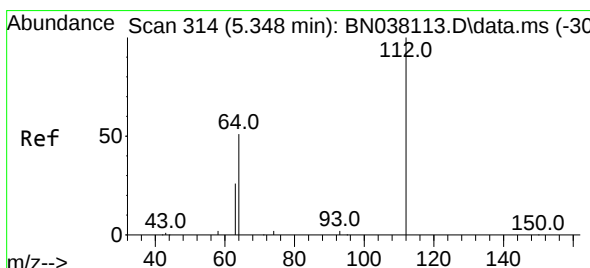
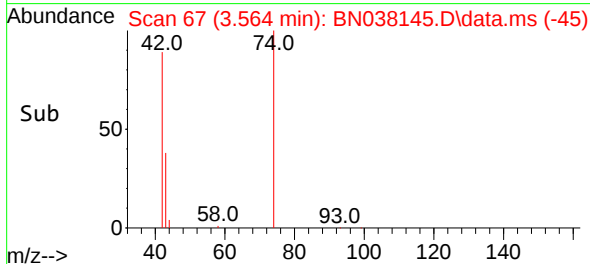
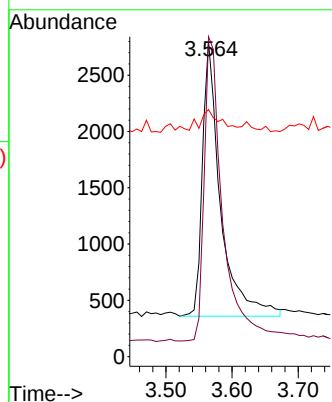
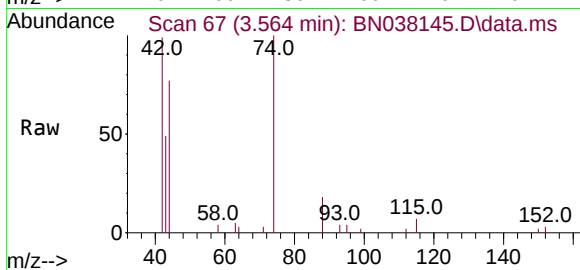
Tgt Ion: 42 Resp: 4631

Ion Ratio Lower Upper

42 100

74 114.9 96.8 145.2

44 8.9 5.3 7.9#



#4

2-Fluorophenol

Concen: 0.374 ng

RT: 5.341 min Scan# 313

Delta R.T. -0.007 min

Lab File: BN038145.D

Acq: 04 Nov 2025 20:12

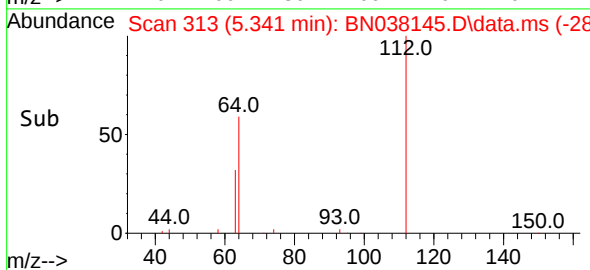
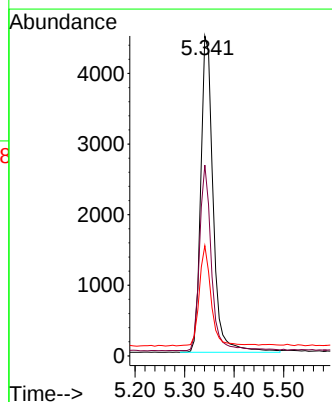
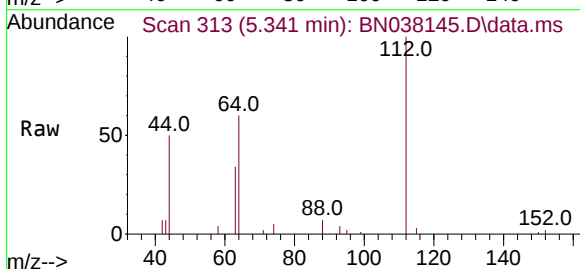
Tgt Ion: 112 Resp: 7775

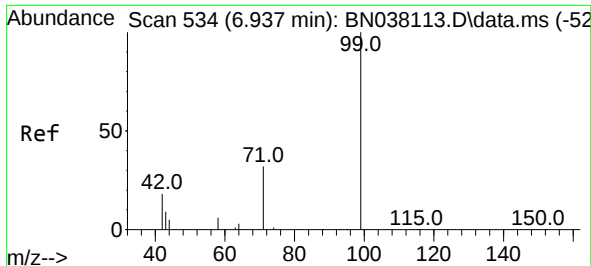
Ion Ratio Lower Upper

112 100

64 56.9 45.4 68.0

63 29.9 23.2 34.8

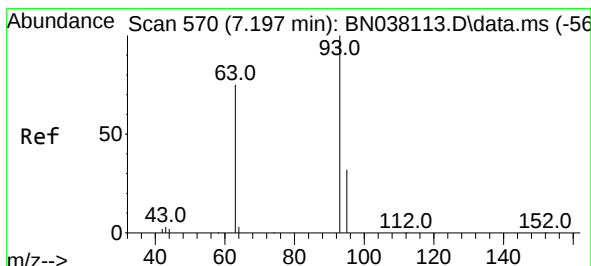
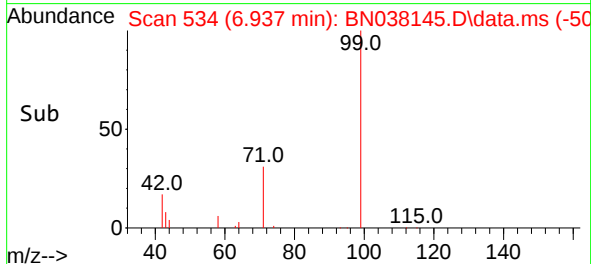
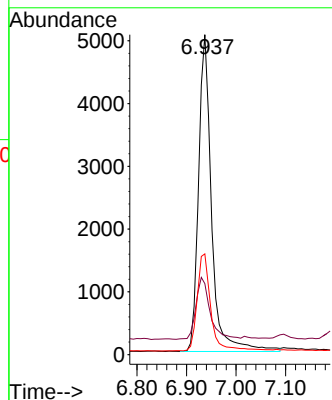
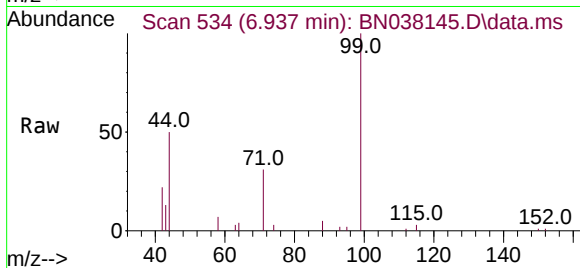




#5  
Phenol-d6  
Concen: 0.363 ng  
RT: 6.937 min Scan# 534  
Delta R.T. -0.000 min  
Lab File: BN038145.D  
Acq: 04 Nov 2025 20:12

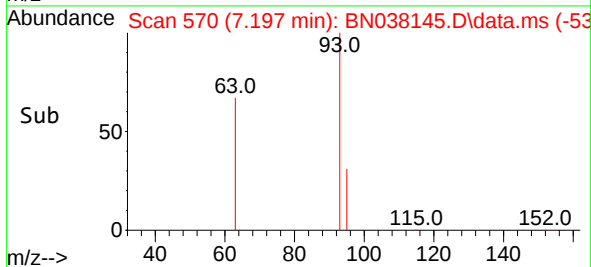
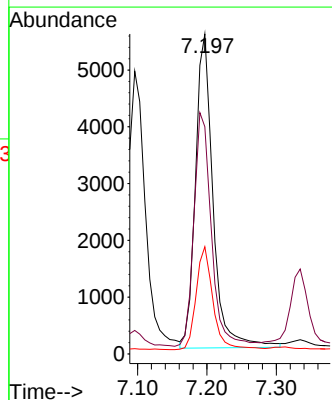
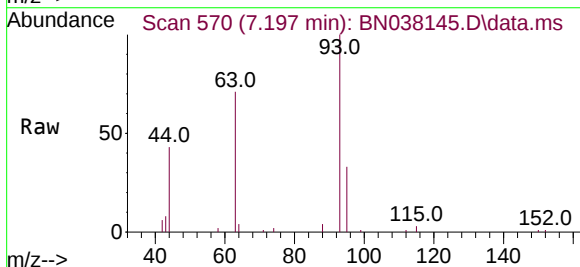
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BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

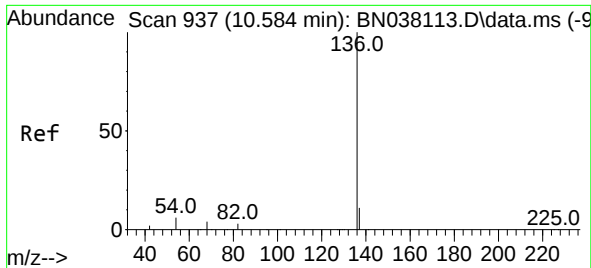
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 99    | Resp: | 9204  |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 21.1  | 16.6  | 24.8  |
| 71       | 32.3  | 25.4  | 38.2  |



#6  
bis(2-Chloroethyl)ether  
Concen: 0.392 ng  
RT: 7.197 min Scan# 570  
Delta R.T. -0.000 min  
Lab File: BN038145.D  
Acq: 04 Nov 2025 20:12

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 93    | Resp: | 9767  |
| Ion      | Ratio | Lower | Upper |
| 93       | 100   |       |       |
| 63       | 73.8  | 59.3  | 88.9  |
| 95       | 31.3  | 25.2  | 37.8  |

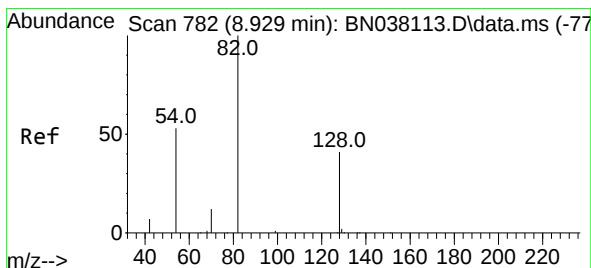
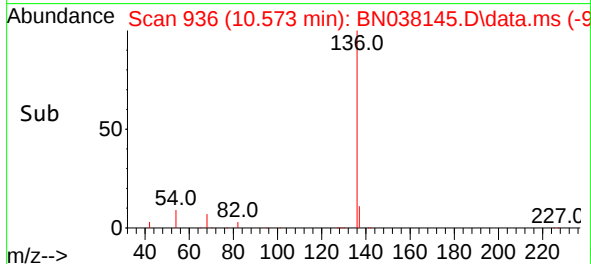
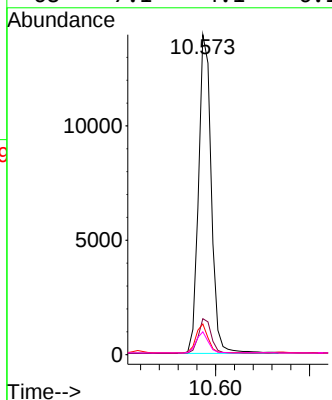
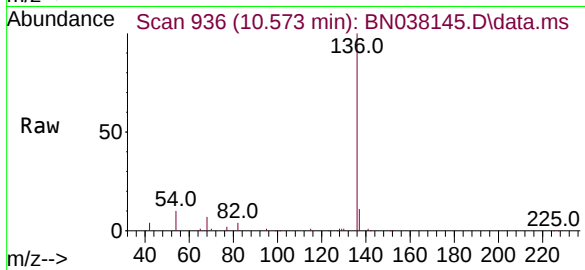




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.573 min Scan# 937  
Delta R.T. -0.000 min  
Lab File: BN038145.D  
Acq: 04 Nov 2025 20:12

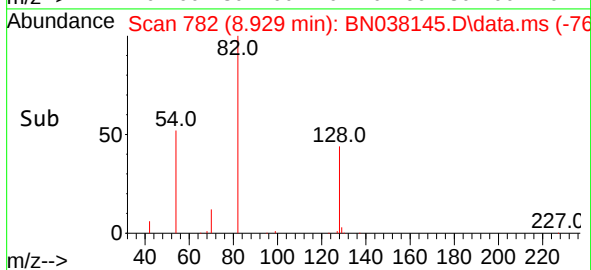
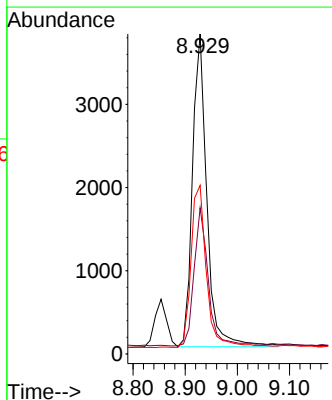
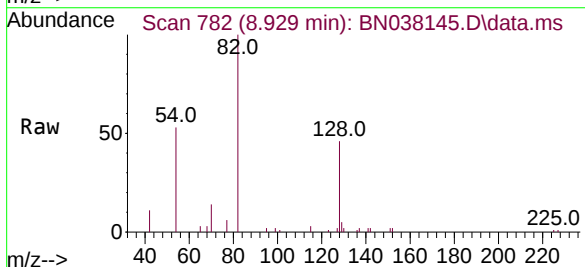
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ClientSampleId :  
SSTDCCC0.4EC

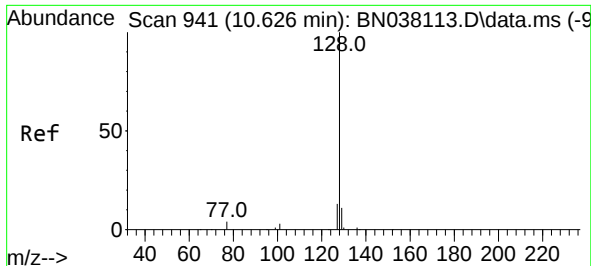
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 136   | Resp: | 26327 |
| Ion Ratio | Lower | Upper |       |
| 136       | 100   |       |       |
| 137       | 11.2  | 9.0   | 13.4  |
| 54        | 9.6   | 5.2   | 7.8#  |
| 68        | 7.1   | 4.1   | 6.1#  |



#8  
Nitrobenzene-d5  
Concen: 0.338 ng  
RT: 8.929 min Scan# 782  
Delta R.T. -0.000 min  
Lab File: BN038145.D  
Acq: 04 Nov 2025 20:12

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 82    | Resp: | 7183 |
| Ion Ratio | Lower | Upper |      |
| 82        | 100   |       |      |
| 128       | 45.7  | 34.1  | 51.1 |
| 54        | 52.7  | 43.5  | 65.3 |

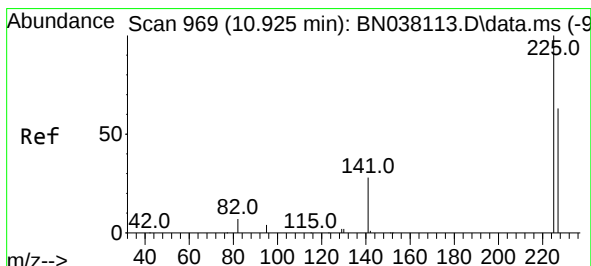
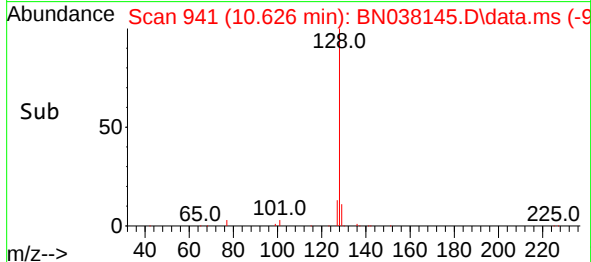
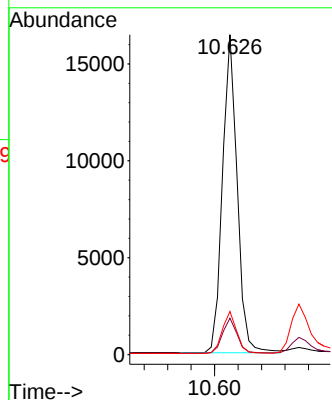
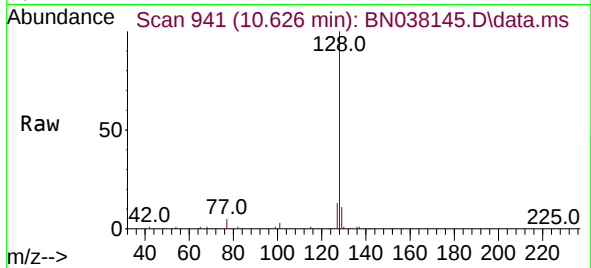




#9  
Naphthalene  
Concen: 0.394 ng  
RT: 10.626 min Scan# 941  
Delta R.T. -0.000 min  
Lab File: BN038145.D  
Acq: 04 Nov 2025 20:12

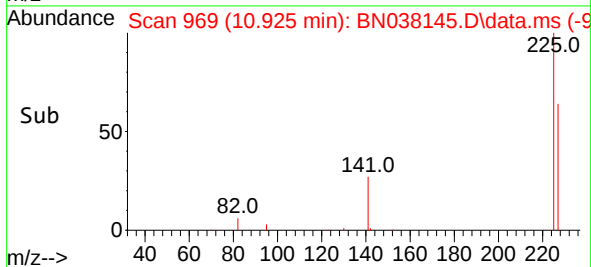
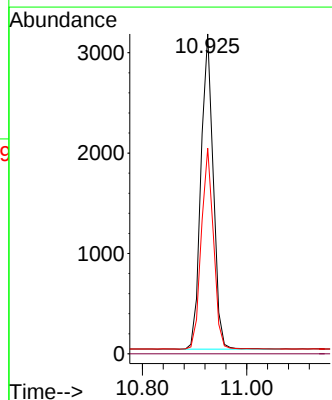
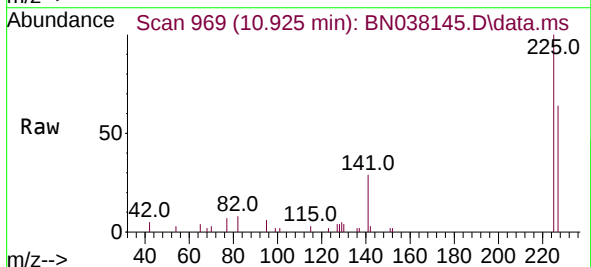
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

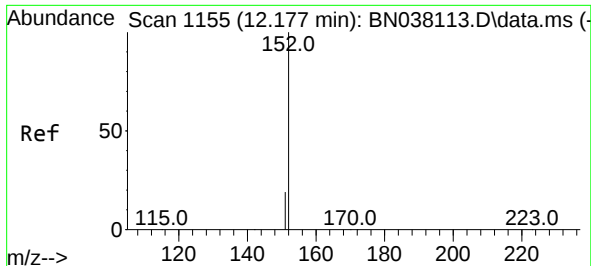
Tgt Ion:128 Resp: 28555  
Ion Ratio Lower Upper  
128 100  
129 11.4 9.1 13.7  
127 13.5 10.5 15.7



#10  
Hexachlorobutadiene  
Concen: 0.420 ng  
RT: 10.925 min Scan# 969  
Delta R.T. -0.000 min  
Lab File: BN038145.D  
Acq: 04 Nov 2025 20:12

Tgt Ion:225 Resp: 5138  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 63.4 50.3 75.5

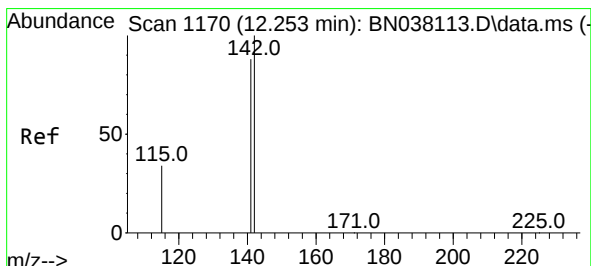
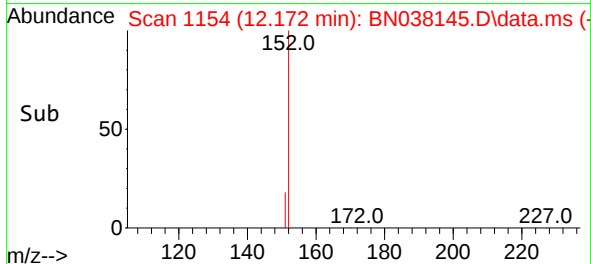
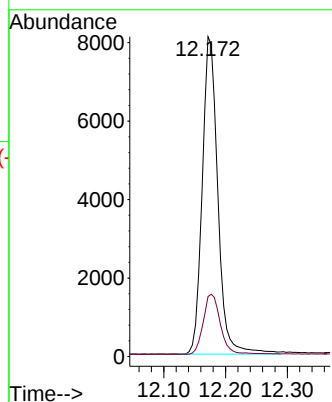
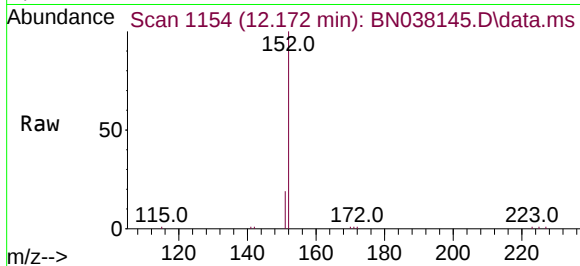




#11  
2-Methylnaphthalene-d10  
Concen: 0.377 ng  
RT: 12.172 min Scan# 1155  
Delta R.T. -0.005 min  
Lab File: BN038145.D  
Acq: 04 Nov 2025 20:12

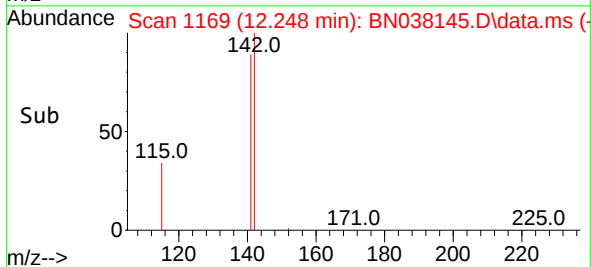
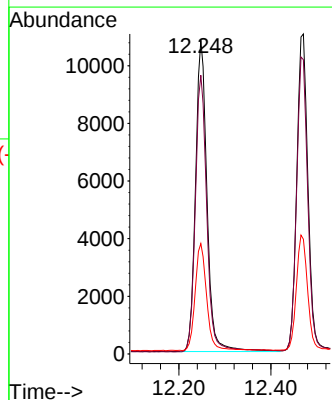
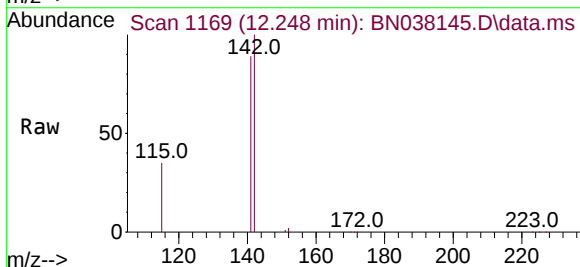
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

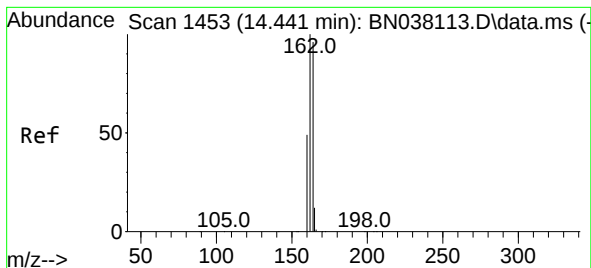
Tgt Ion:152 Resp: 14165  
Ion Ratio Lower Upper  
152 100  
151 21.3 16.8 25.2



#12  
2-Methylnaphthalene  
Concen: 0.388 ng  
RT: 12.248 min Scan# 1169  
Delta R.T. -0.000 min  
Lab File: BN038145.D  
Acq: 04 Nov 2025 20:12

Tgt Ion:142 Resp: 18776  
Ion Ratio Lower Upper  
142 100  
141 88.8 70.3 105.5  
115 35.2 27.8 41.6





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.430 min Scan# 1452

Delta R.T. -0.000 min

Lab File: BN038145.D

Acq: 04 Nov 2025 20:12

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC

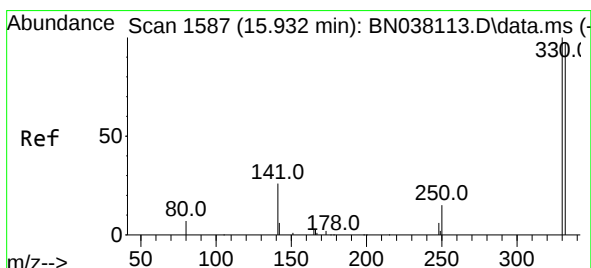
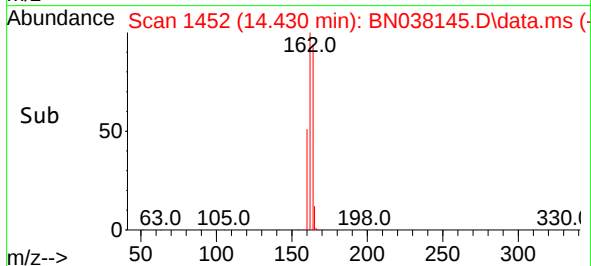
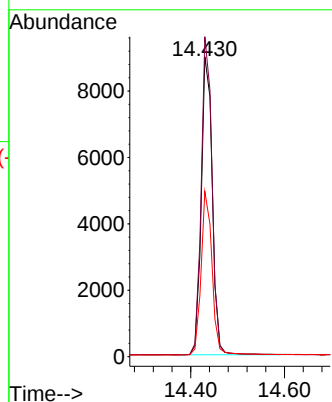
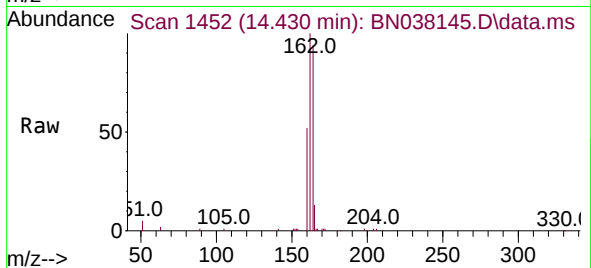
Tgt Ion:164 Resp: 14572

Ion Ratio Lower Upper

164 100

162 106.7 83.0 124.4

160 55.1 40.7 61.1



#14

2,4,6-Tribromophenol

Concen: 0.306 ng

RT: 15.932 min Scan# 1587

Delta R.T. -0.000 min

Lab File: BN038145.D

Acq: 04 Nov 2025 20:12

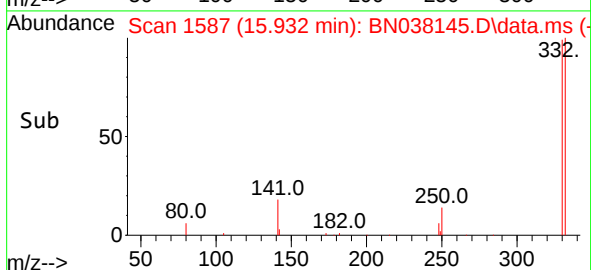
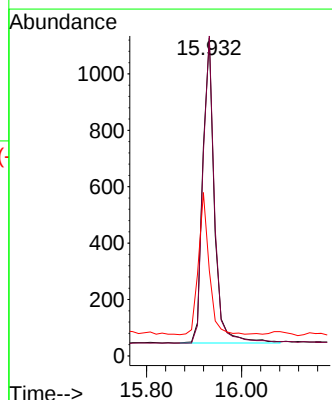
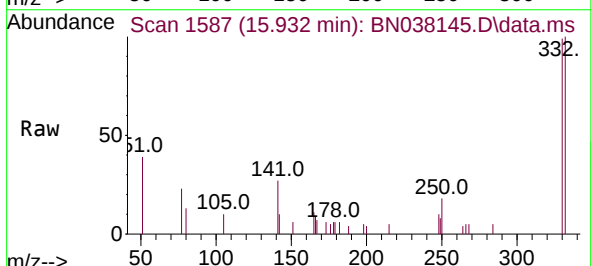
Tgt Ion:330 Resp: 1835

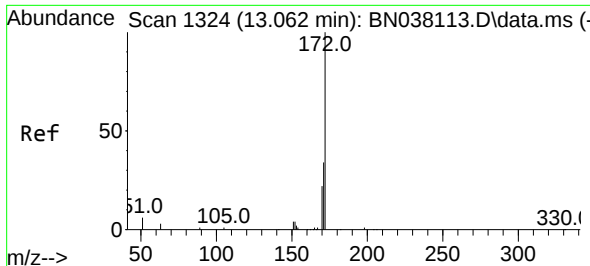
Ion Ratio Lower Upper

330 100

332 99.6 76.6 114.8

141 43.1 34.1 51.1

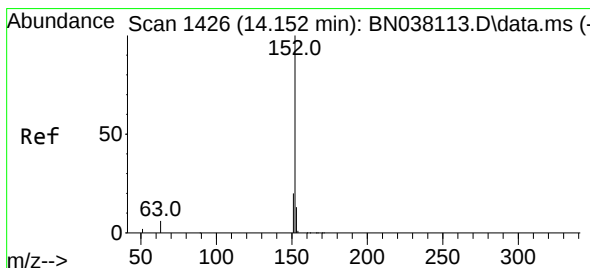
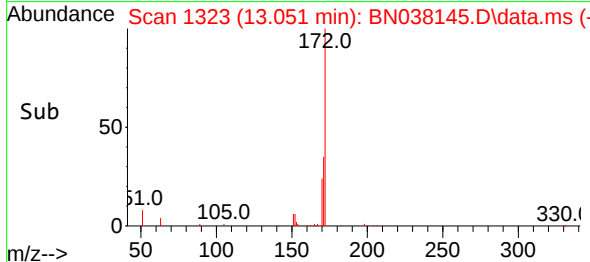
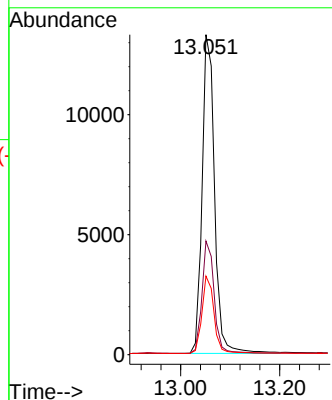
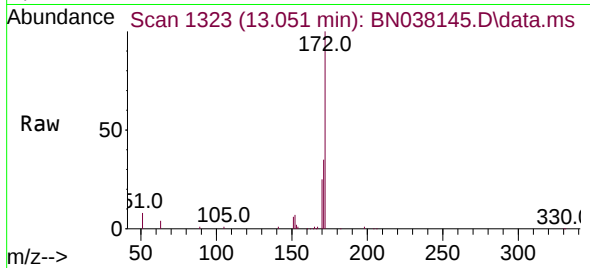




#15  
2-Fluorobiphenyl  
Concen: 0.377 ng  
RT: 13.051 min Scan# 1323  
Delta R.T. -0.000 min  
Lab File: BN038145.D  
Acq: 04 Nov 2025 20:12

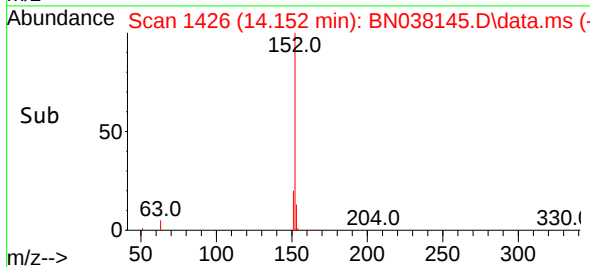
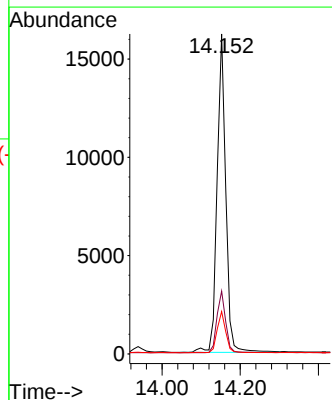
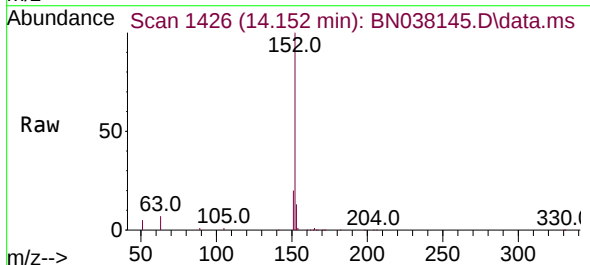
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

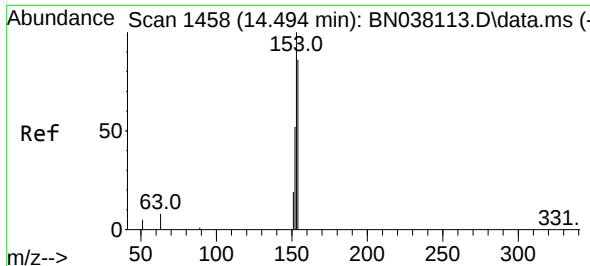
Tgt Ion:172 Resp: 22024  
Ion Ratio Lower Upper  
172 100  
171 35.5 27.8 41.6  
170 24.5 18.1 27.1



#16  
Acenaphthylene  
Concen: 0.379 ng  
RT: 14.152 min Scan# 1426  
Delta R.T. -0.000 min  
Lab File: BN038145.D  
Acq: 04 Nov 2025 20:12

Tgt Ion:152 Resp: 25035  
Ion Ratio Lower Upper  
152 100  
151 19.8 15.8 23.8  
153 13.0 10.2 15.2

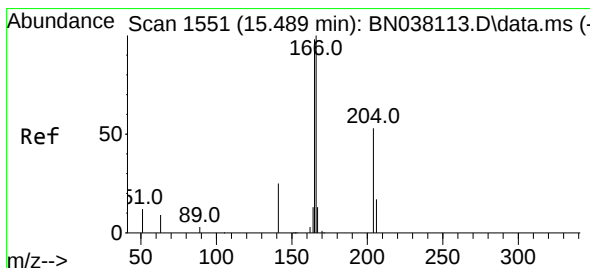
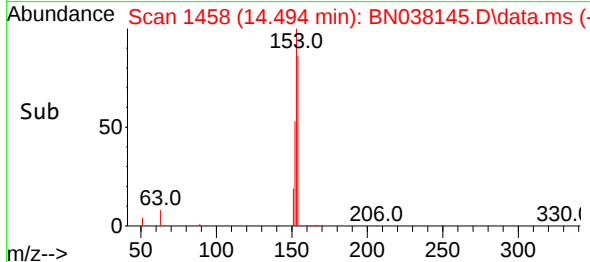
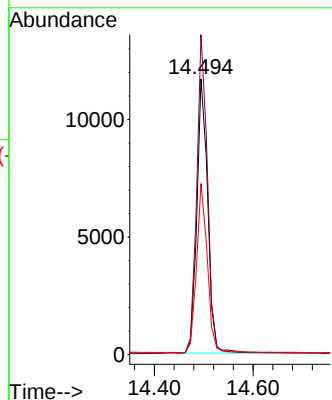
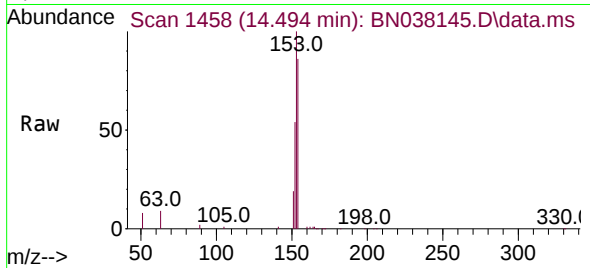




#17  
Acenaphthene  
Concen: 0.387 ng  
RT: 14.494 min Scan# 1458  
Delta R.T. -0.000 min  
Lab File: BN038145.D  
Acq: 04 Nov 2025 20:12

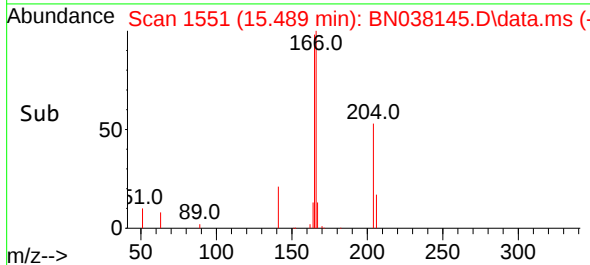
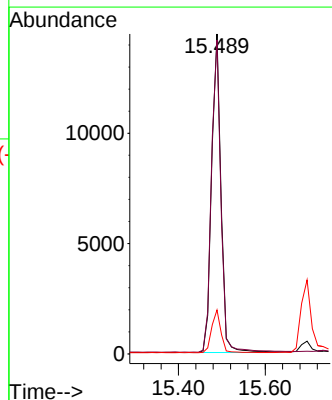
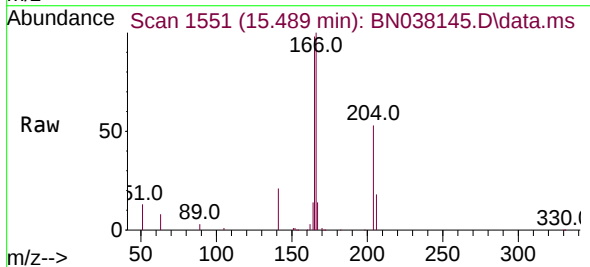
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

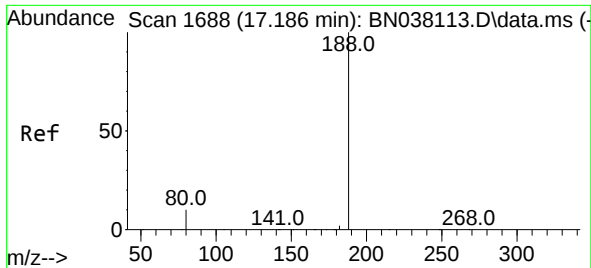
Tgt Ion:154 Resp: 17860  
Ion Ratio Lower Upper  
154 100  
153 114.0 90.0 135.0  
152 61.4 47.3 70.9



#18  
Fluorene  
Concen: 0.382 ng  
RT: 15.489 min Scan# 1551  
Delta R.T. -0.000 min  
Lab File: BN038145.D  
Acq: 04 Nov 2025 20:12

Tgt Ion:166 Resp: 23115  
Ion Ratio Lower Upper  
166 100  
165 99.8 79.0 118.4  
167 13.4 10.7 16.1

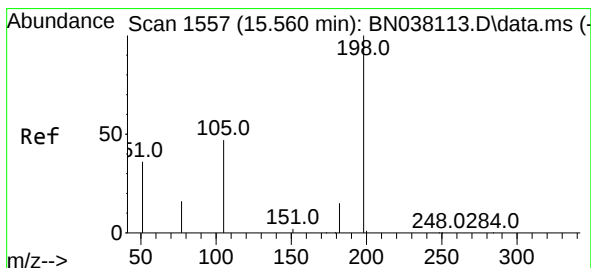
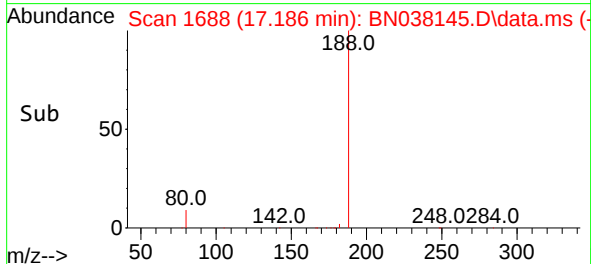
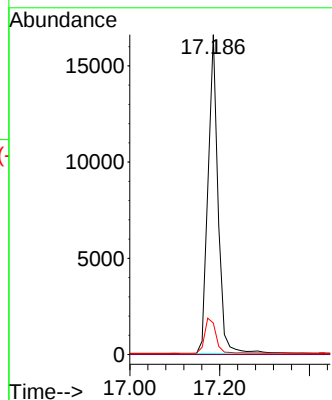
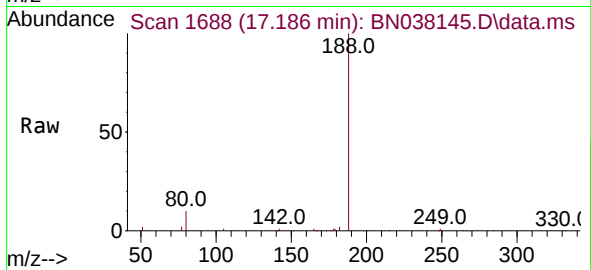




#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 17.186 min Scan# 1688  
Delta R.T. -0.000 min  
Lab File: BN038145.D  
Acq: 04 Nov 2025 20:12

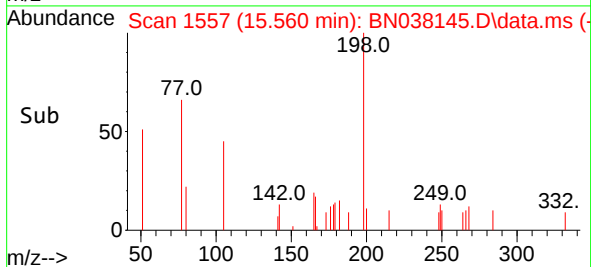
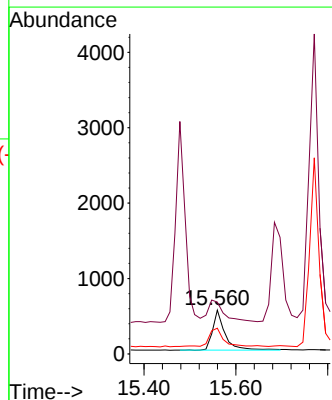
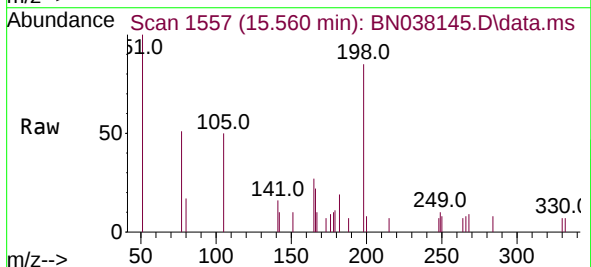
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

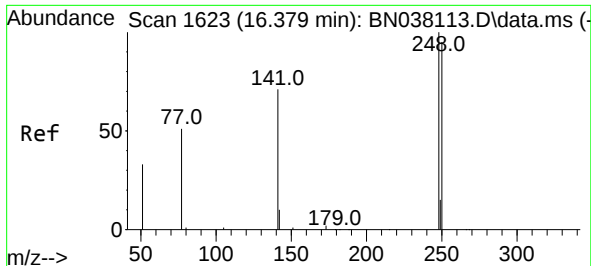
Tgt Ion:188 Resp: 25889  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 9.9 8.6 13.0



#20  
4,6-Dinitro-2-methylphenol  
Concen: 0.380 ng  
RT: 15.560 min Scan# 1557  
Delta R.T. -0.000 min  
Lab File: BN038145.D  
Acq: 04 Nov 2025 20:12

Tgt Ion:198 Resp: 971  
Ion Ratio Lower Upper  
198 100  
51 118.1 88.9 133.3  
105 58.5 49.2 73.8

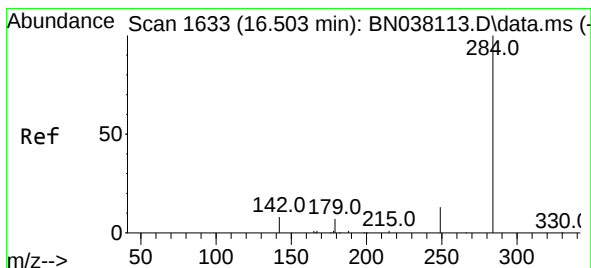
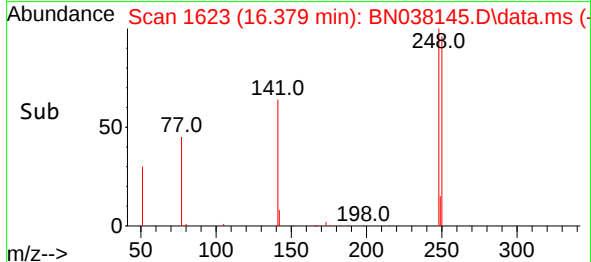
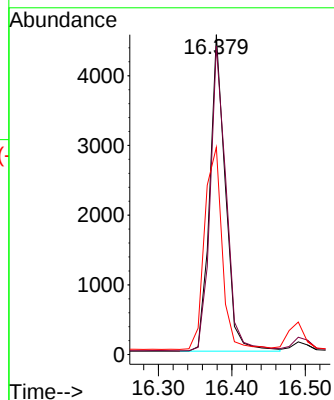
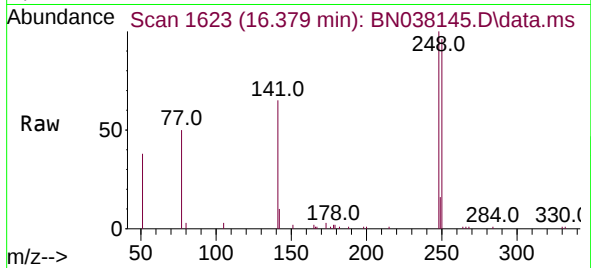




#21  
4-Bromophenyl-phenylether  
Concen: 0.397 ng  
RT: 16.379 min Scan# 1623  
Delta R.T. -0.000 min  
Lab File: BN038145.D  
Acq: 04 Nov 2025 20:12

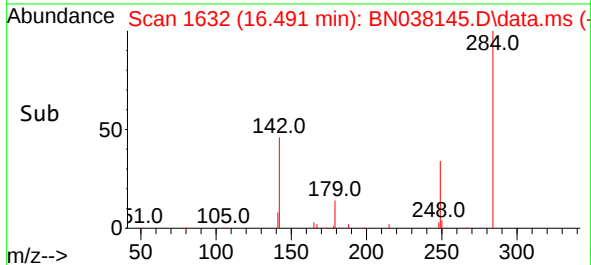
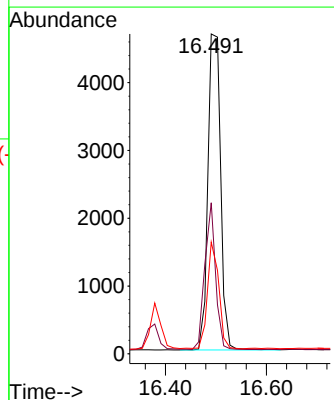
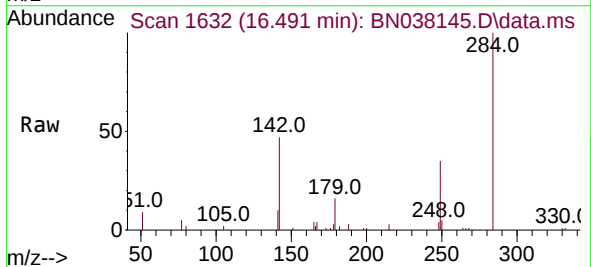
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

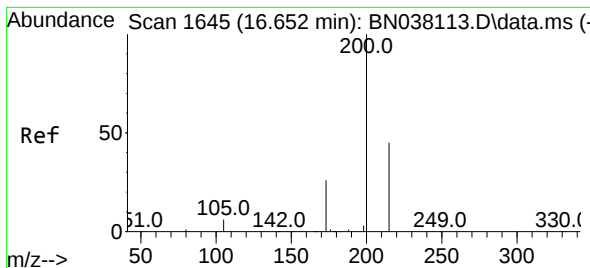
Tgt Ion:248 Resp: 6744  
Ion Ratio Lower Upper  
248 100  
250 96.4 76.2 114.2  
141 64.8 57.6 86.4



#22  
Hexachlorobenzene  
Concen: 0.423 ng  
RT: 16.491 min Scan# 1632  
Delta R.T. -0.013 min  
Lab File: BN038145.D  
Acq: 04 Nov 2025 20:12

Tgt Ion:284 Resp: 8174  
Ion Ratio Lower Upper  
284 100  
142 39.1 30.5 45.7  
249 30.0 23.5 35.3





#23

Atrazine

Concen: 0.337 ng

RT: 16.652 min Scan# 1645

Delta R.T. -0.000 min

Lab File: BN038145.D

Acq: 04 Nov 2025 20:12

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC

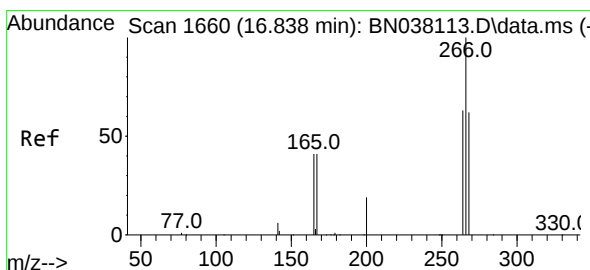
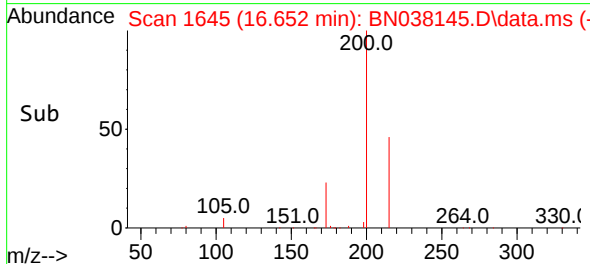
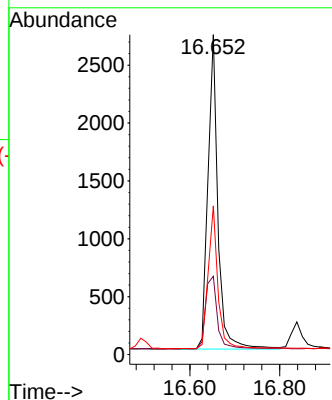
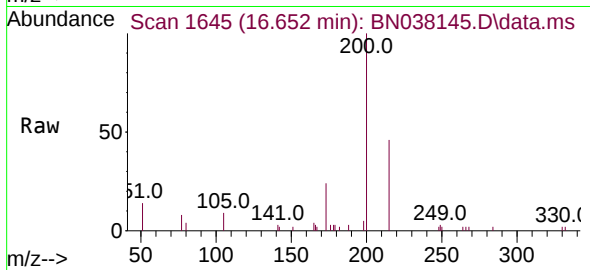
Tgt Ion:200 Resp: 4191

Ion Ratio Lower Upper

200 100

173 24.5 21.4 32.2

215 46.5 36.7 55.1



#24

Pentachlorophenol

Concen: 0.266 ng

RT: 16.838 min Scan# 1660

Delta R.T. -0.000 min

Lab File: BN038145.D

Acq: 04 Nov 2025 20:12

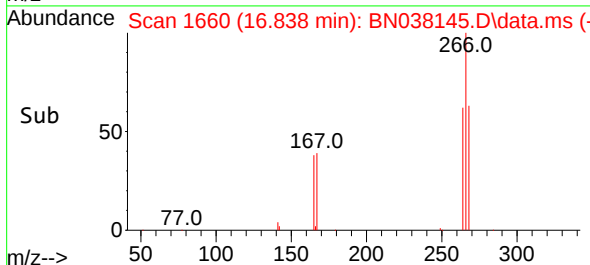
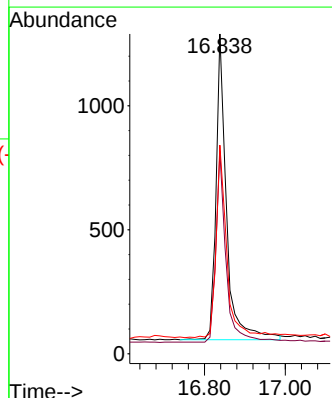
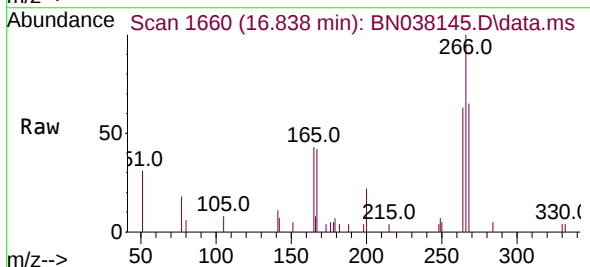
Tgt Ion:266 Resp: 2211

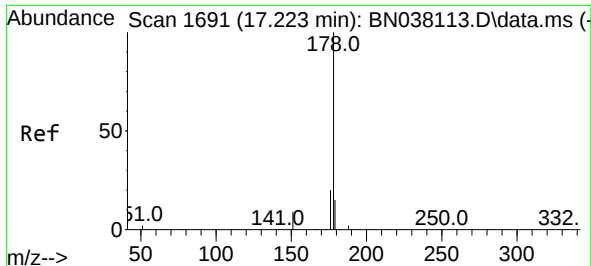
Ion Ratio Lower Upper

266 100

264 61.3 49.3 73.9

268 65.2 50.6 75.8

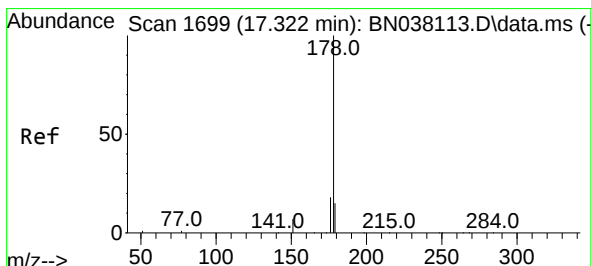
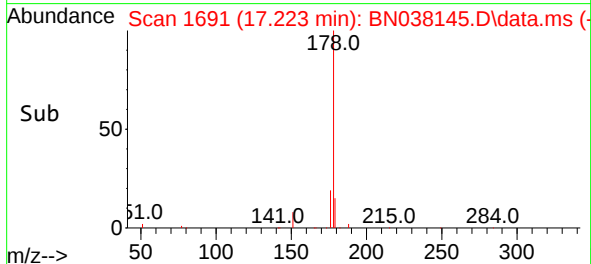
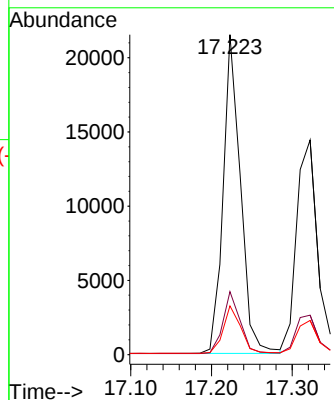
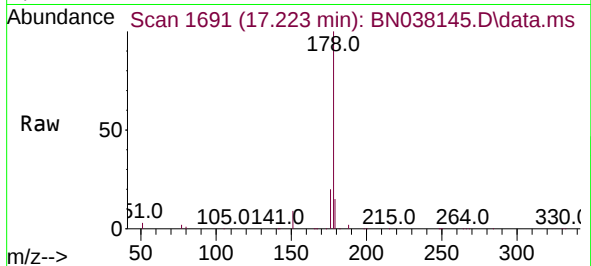




#25  
Phenanthrene  
Concen: 0.389 ng  
RT: 17.223 min Scan# 1691  
Delta R.T. -0.000 min  
Lab File: BN038145.D  
Acq: 04 Nov 2025 20:12

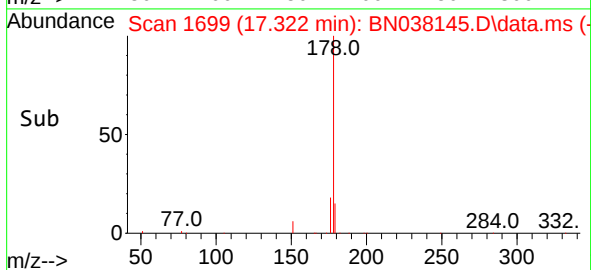
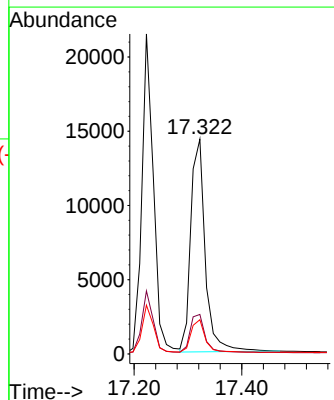
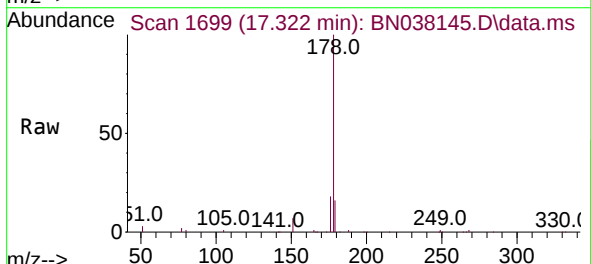
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

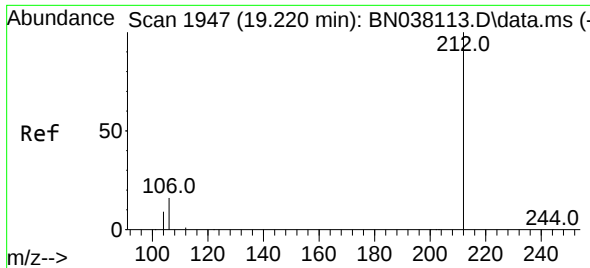
Tgt Ion:178 Resp: 31983  
Ion Ratio Lower Upper  
178 100  
176 19.4 15.5 23.3  
179 15.3 12.2 18.4



#26  
Anthracene  
Concen: 0.374 ng  
RT: 17.322 min Scan# 1699  
Delta R.T. -0.000 min  
Lab File: BN038145.D  
Acq: 04 Nov 2025 20:12

Tgt Ion:178 Resp: 26920  
Ion Ratio Lower Upper  
178 100  
176 18.7 14.9 22.3  
179 15.3 11.8 17.8

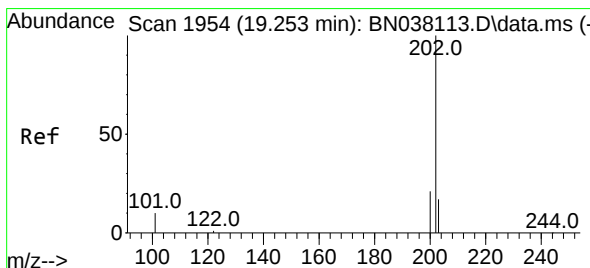
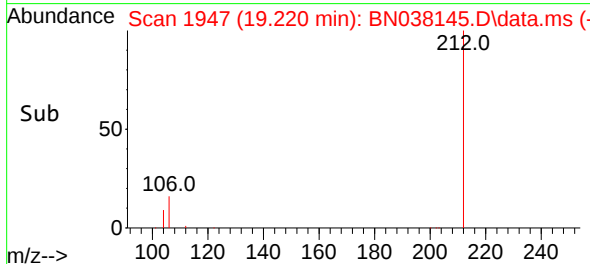
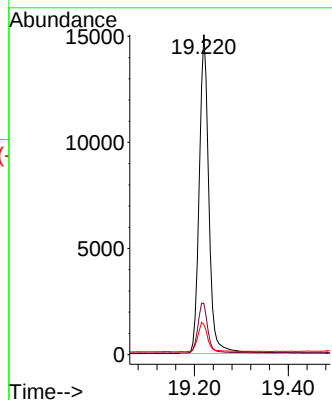
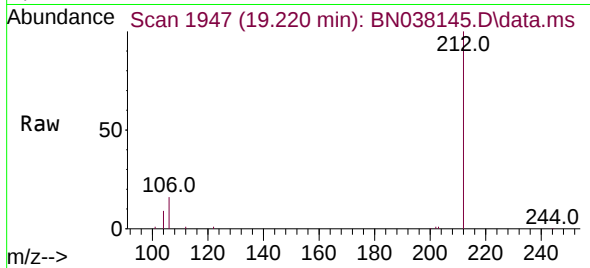




#27  
Fluoranthene-d10  
Concen: 0.327 ng  
RT: 19.220 min Scan# 1947  
Delta R.T. -0.000 min  
Lab File: BN038145.D  
Acq: 04 Nov 2025 20:12

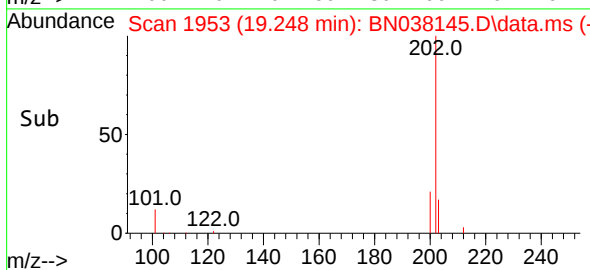
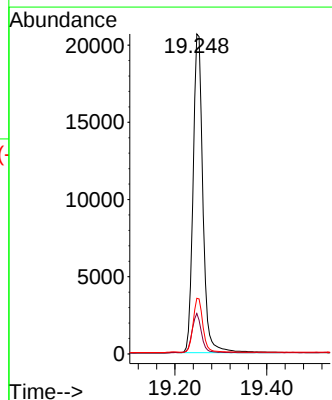
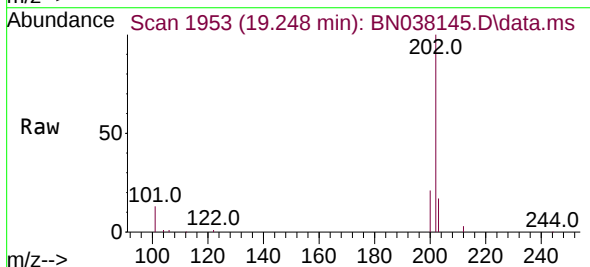
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

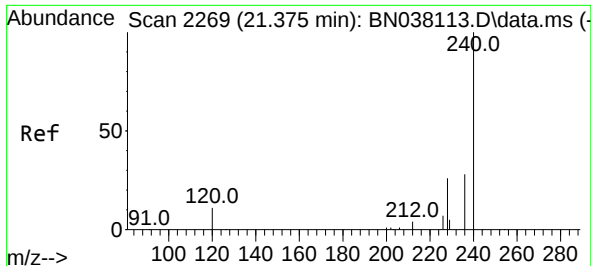
Tgt Ion:212 Resp: 21378  
Ion Ratio Lower Upper  
212 100  
106 16.1 12.6 19.0  
104 9.5 7.1 10.7



#28  
Fluoranthene  
Concen: 0.334 ng  
RT: 19.248 min Scan# 1953  
Delta R.T. -0.005 min  
Lab File: BN038145.D  
Acq: 04 Nov 2025 20:12

Tgt Ion:202 Resp: 30682  
Ion Ratio Lower Upper  
202 100  
101 12.1 9.4 14.2  
203 16.9 13.4 20.2

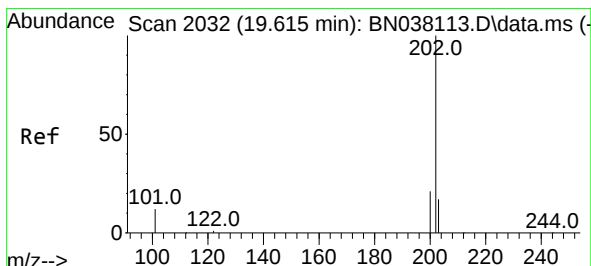
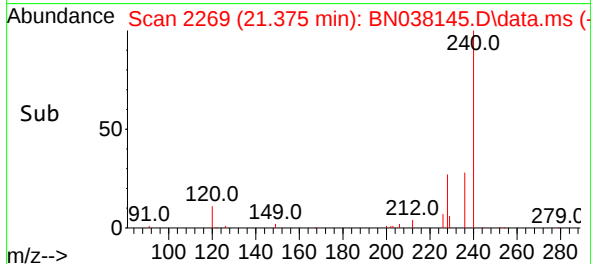
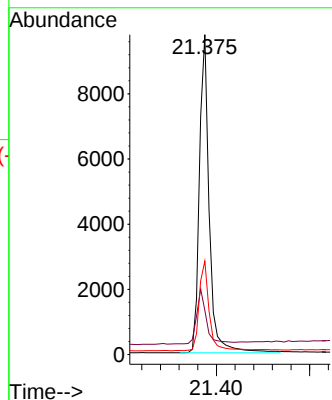
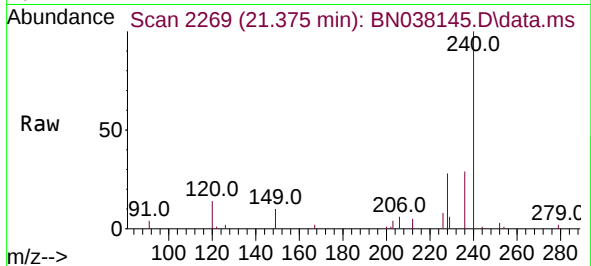




#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.375 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: BN038145.D  
Acq: 04 Nov 2025 20:12

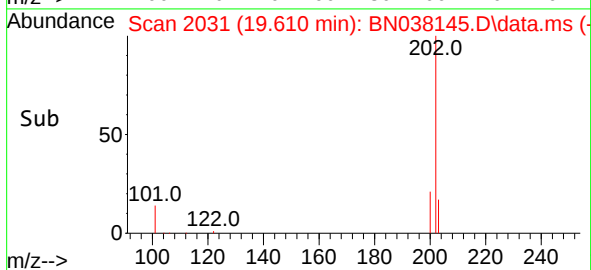
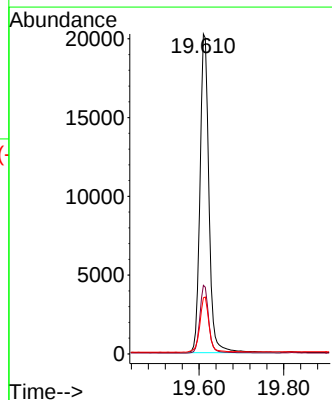
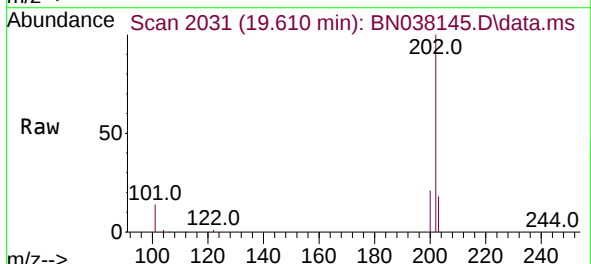
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

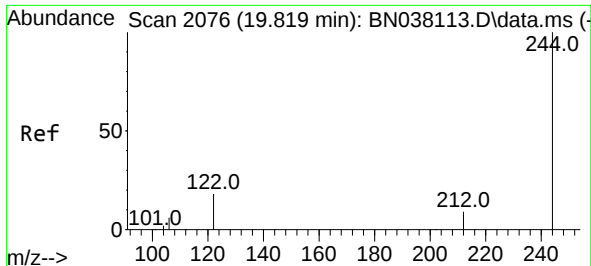
Tgt Ion:240 Resp: 14271  
Ion Ratio Lower Upper  
240 100  
120 13.8 10.7 16.1  
236 29.3 23.1 34.7



#30  
Pyrene  
Concen: 0.462 ng  
RT: 19.610 min Scan# 2031  
Delta R.T. -0.000 min  
Lab File: BN038145.D  
Acq: 04 Nov 2025 20:12

Tgt Ion:202 Resp: 29749  
Ion Ratio Lower Upper  
202 100  
200 21.0 16.7 25.1  
203 17.6 14.2 21.2

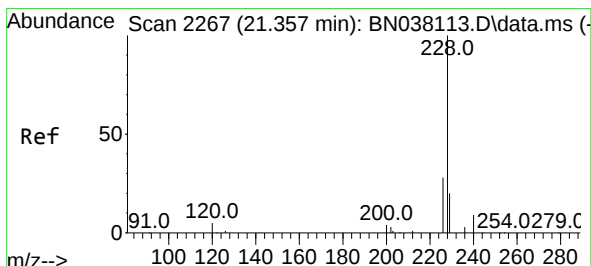
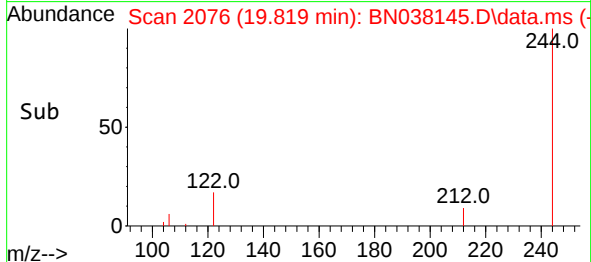
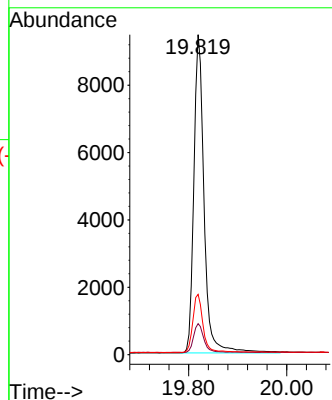
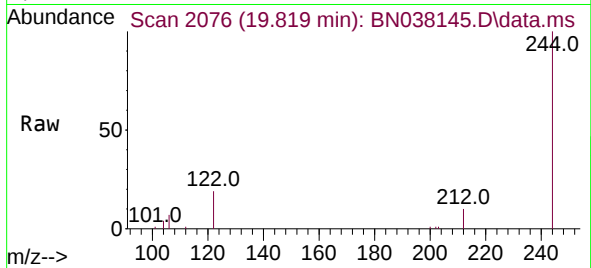




#31  
 Terphenyl-d14  
 Concen: 0.443 ng  
 RT: 19.819 min Scan# 2076  
 Delta R.T. -0.000 min  
 Lab File: BN038145.D  
 Acq: 04 Nov 2025 20:12

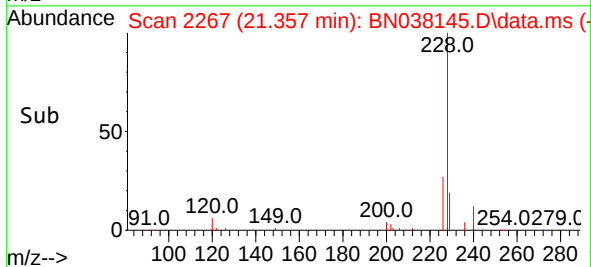
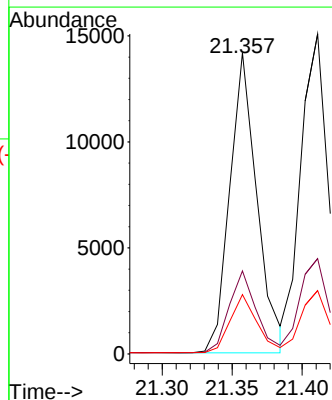
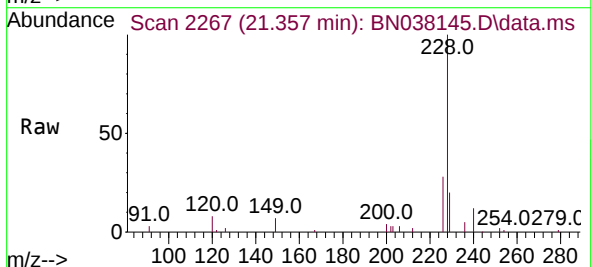
Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4EC

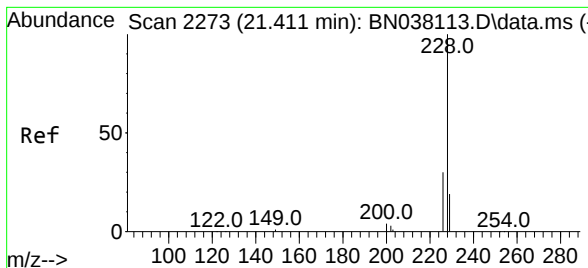
Tgt Ion:244 Resp: 13728  
 Ion Ratio Lower Upper  
 244 100  
 212 9.7 7.8 11.6  
 122 18.8 15.2 22.8



#32  
 Benzo(a)anthracene  
 Concen: 0.376 ng  
 RT: 21.357 min Scan# 2267  
 Delta R.T. -0.000 min  
 Lab File: BN038145.D  
 Acq: 04 Nov 2025 20:12

Tgt Ion:228 Resp: 19156  
 Ion Ratio Lower Upper  
 228 100  
 226 27.5 22.2 33.4  
 229 19.7 15.8 23.8





#33

Chrysene

Concen: 0.411 ng

RT: 21.411 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN038145.D

Acq: 04 Nov 2025 20:12

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC

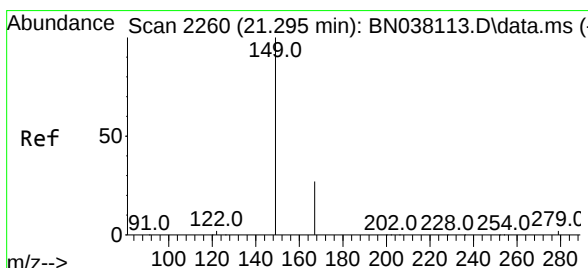
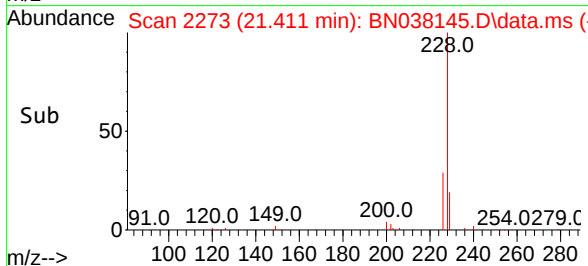
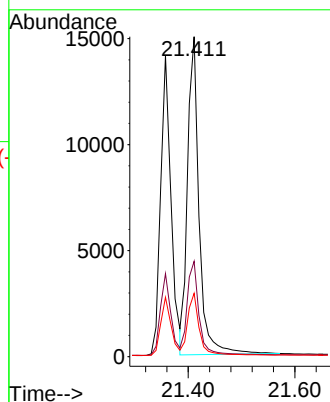
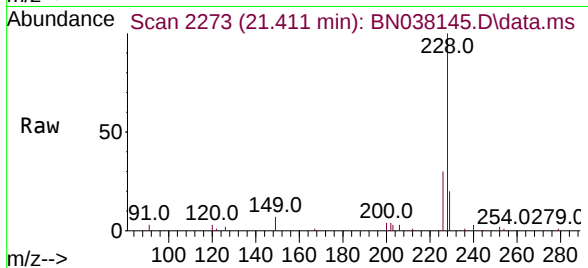
Tgt Ion:228 Resp: 22690

Ion Ratio Lower Upper

228 100

226 29.8 24.3 36.5

229 19.8 15.7 23.5



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.384 ng

RT: 21.295 min Scan# 2260

Delta R.T. -0.000 min

Lab File: BN038145.D

Acq: 04 Nov 2025 20:12

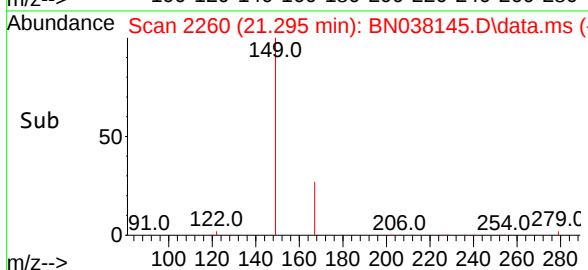
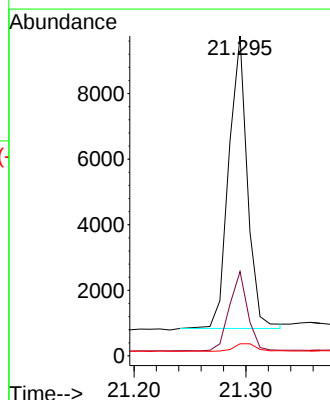
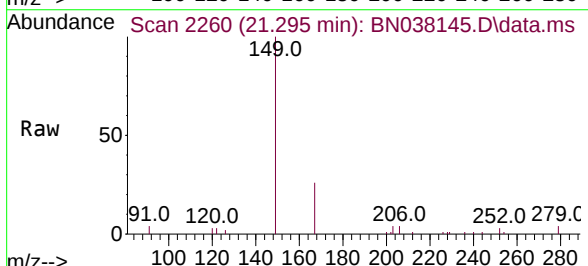
Tgt Ion:149 Resp: 10298

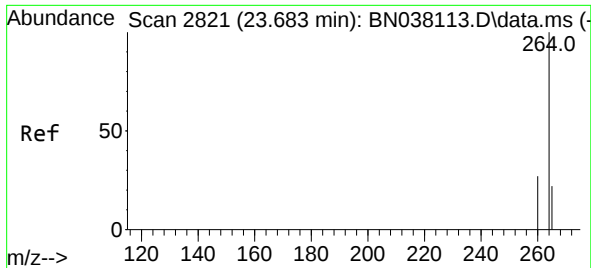
Ion Ratio Lower Upper

149 100

167 26.6 21.1 31.7

279 3.3 2.9 4.3



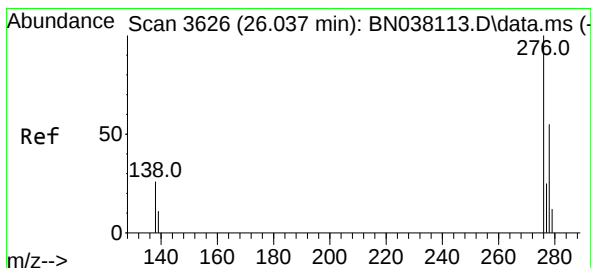
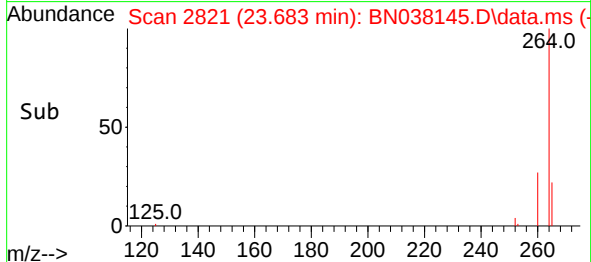
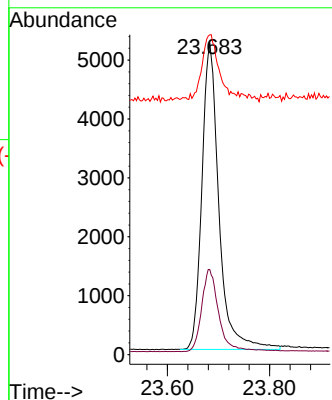
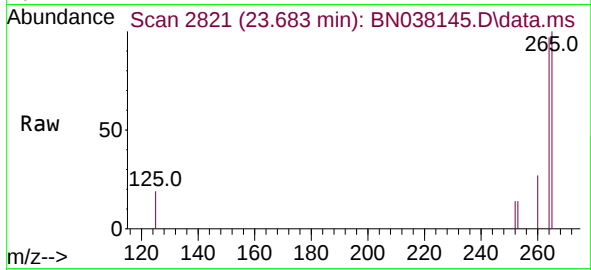


#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.683 min Scan# 2821  
Delta R.T. 0.003 min  
Lab File: BN038145.D  
Acq: 04 Nov 2025 20:12

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

Tgt Ion:264 Resp: 11979  

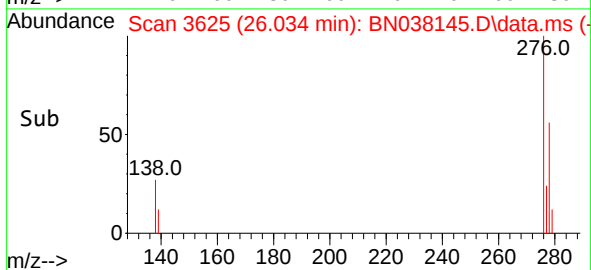
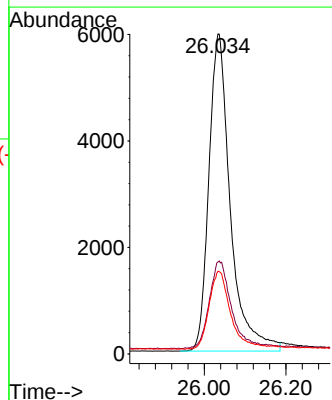
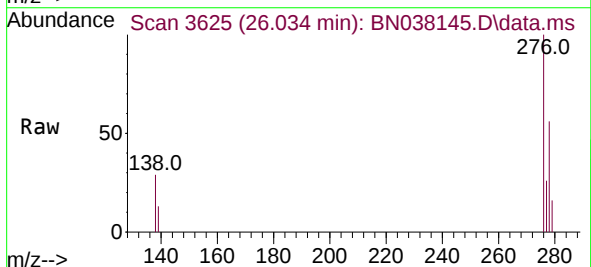
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 27.3  | 21.8  | 32.8  |
| 265 | 102.8 | 68.6  | 102.8 |

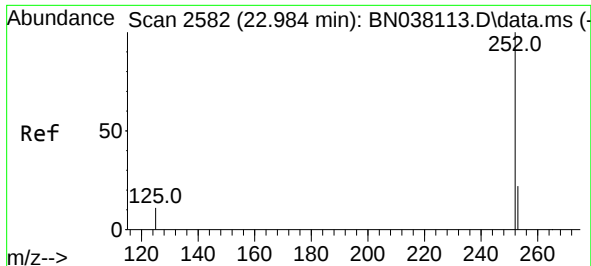


#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.442 ng  
RT: 26.034 min Scan# 3625  
Delta R.T. -0.000 min  
Lab File: BN038145.D  
Acq: 04 Nov 2025 20:12

Tgt Ion:276 Resp: 21759  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100   |       |       |
| 138 | 27.9  | 21.4  | 32.0  |
| 277 | 24.5  | 19.2  | 28.8  |





#37

Benzo(b)fluoranthene

Concen: 0.393 ng

RT: 22.984 min Scan# 2582

Delta R.T. 0.003 min

Lab File: BN038145.D

Acq: 04 Nov 2025 20:12

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC

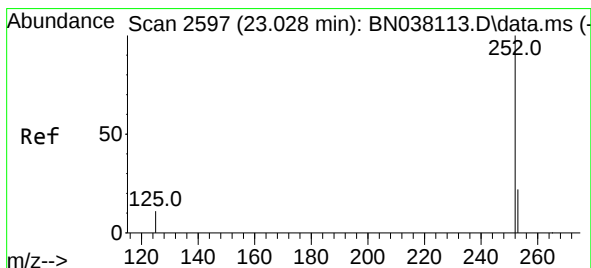
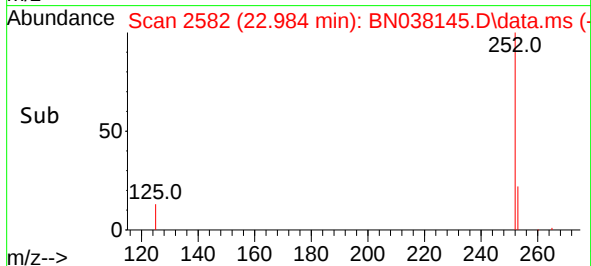
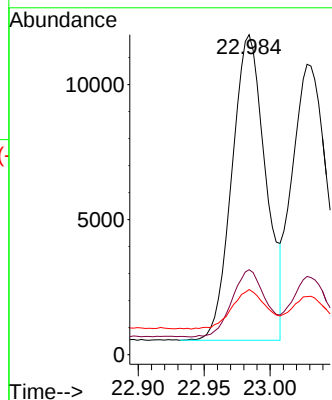
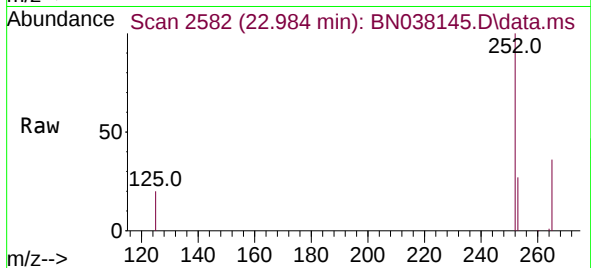
Tgt Ion:252 Resp: 20105

Ion Ratio Lower Upper

252 100

253 26.5 20.9 31.3

125 20.3 14.1 21.1



#38

Benzo(k)fluoranthene

Concen: 0.406 ng

RT: 23.028 min Scan# 2597

Delta R.T. -0.000 min

Lab File: BN038145.D

Acq: 04 Nov 2025 20:12

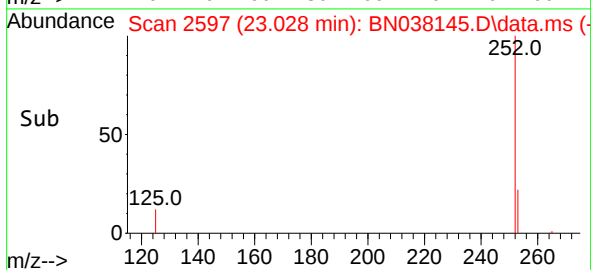
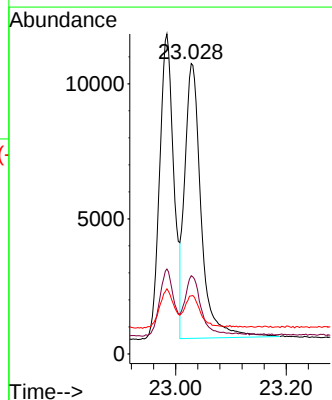
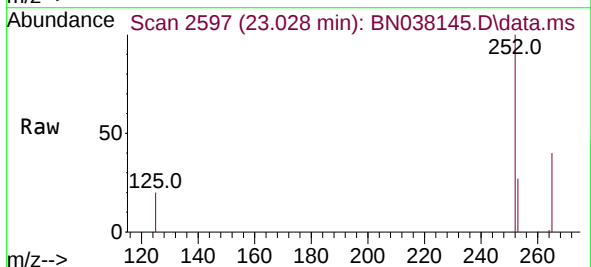
Tgt Ion:252 Resp: 20945

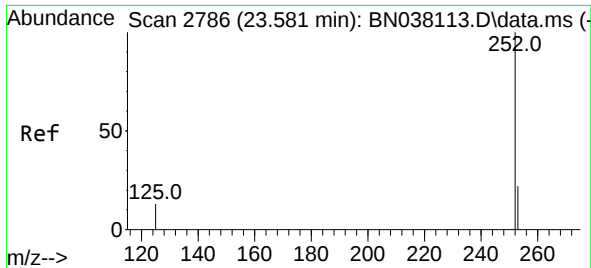
Ion Ratio Lower Upper

252 100

253 26.9 21.2 31.8

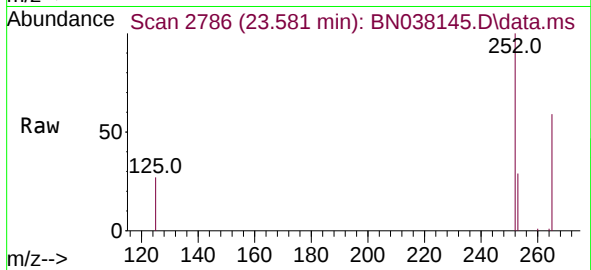
125 20.0 14.6 22.0



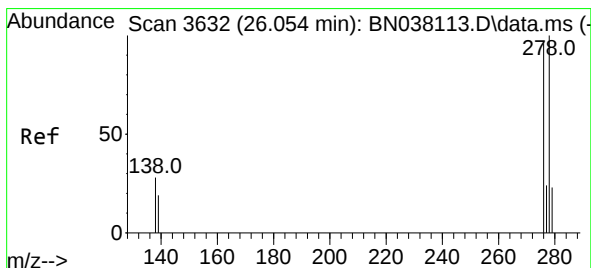
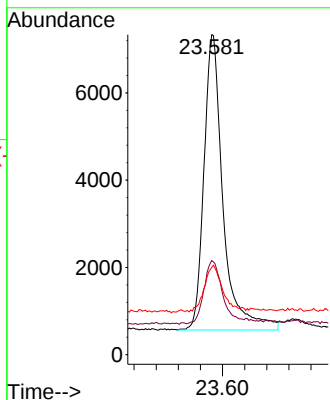
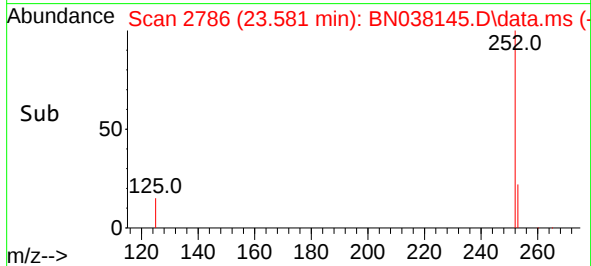


#39  
Benzo(a)pyrene  
Concen: 0.397 ng  
RT: 23.581 min Scan# 21  
Delta R.T. 0.003 min  
Lab File: BN038145.D  
Acq: 04 Nov 2025 20:12

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

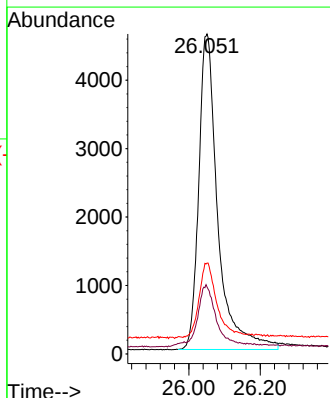
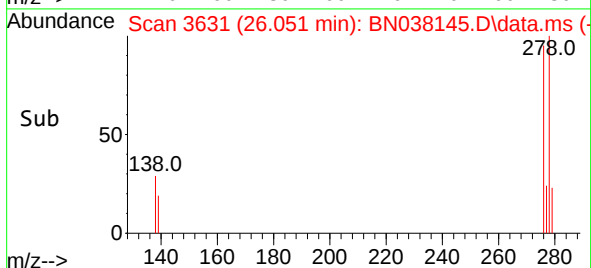
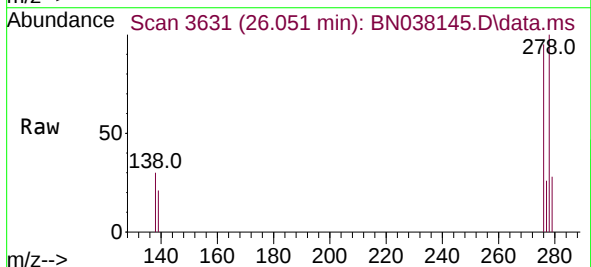


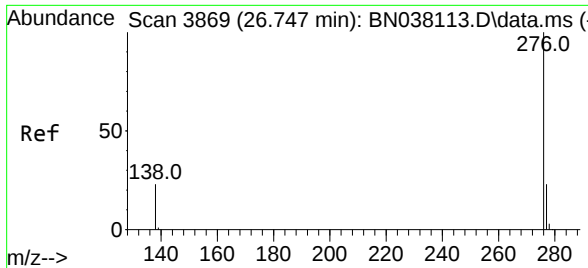
Tgt Ion:252 Resp: 16258  
Ion Ratio Lower Upper  
252 100  
253 29.4 23.1 34.7  
125 27.3 18.6 28.0



#40  
Dibenzo(a,h)anthracene  
Concen: 0.452 ng  
RT: 26.051 min Scan# 3631  
Delta R.T. 0.003 min  
Lab File: BN038145.D  
Acq: 04 Nov 2025 20:12

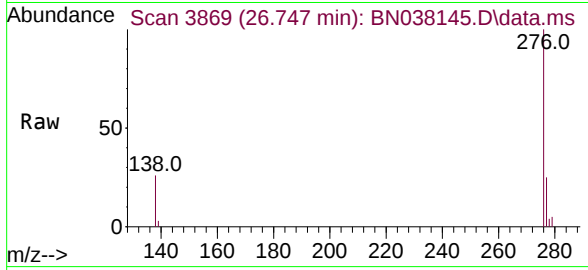
Tgt Ion:278 Resp: 17101  
Ion Ratio Lower Upper  
278 100  
139 21.0 17.6 26.4  
279 28.4 22.6 33.8



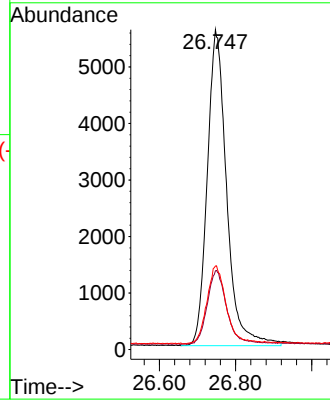
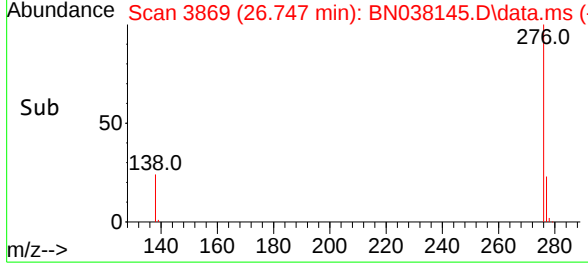


#41  
Benzo(g,h,i)perylene  
Concen: 0.457 ng  
RT: 26.747 min Scan# 3869  
Delta R.T. -0.003 min  
Lab File: BN038145.D  
Acq: 04 Nov 2025 20:12

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC



Tgt Ion:276 Resp: 19764  
Ion Ratio Lower Upper  
276 100  
277 24.6 19.7 29.5  
138 26.1 20.2 30.4



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN110425\  
 Data File : BN038145.D  
 Acq On : 04 Nov 2025 20:12  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 LabSampleId :  
 SSTDCCC0.4

Quant Time: Nov 04 21:16:11 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN102825.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Oct 29 13:09:46 2025  
 Response via : Initial Calibration

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

|         | Compound                   | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|---------|----------------------------|-------|-------|-------|-------|----------|
| 1 I     | 1,4-Dichlorobenzene-d4     | 1.000 | 1.000 | 0.0   | 96    | 0.00     |
| 2       | 1,4-Dioxane                | 0.413 | 0.430 | -4.1  | 97    | 0.00     |
| 3       | n-Nitrosodimethylamine     | 0.532 | 0.524 | 1.5   | 94    | 0.00     |
| 4 S     | 2-Fluorophenol             | 0.942 | 0.881 | 6.5   | 89    | 0.00     |
| 5 S     | Phenol-d6                  | 1.148 | 1.042 | 9.2   | 88    | 0.00     |
| 6       | bis(2-Chloroethyl)ether    | 1.128 | 1.106 | 2.0   | 94    | 0.00     |
| 7 I     | Naphthalene-d8             | 1.000 | 1.000 | 0.0   | 95    | 0.00     |
| 8 S     | Nitrobenzene-d5            | 0.323 | 0.273 | 15.5  | 83    | 0.00     |
| 9       | Naphthalene                | 1.102 | 1.085 | 1.5   | 96    | 0.00     |
| 10      | Hexachlorobutadiene        | 0.186 | 0.195 | -4.8  | 99    | 0.00     |
| 11 SURR | 2-Methylnaphthalene-d10    | 0.571 | 0.538 | 5.8   | 93    | 0.00     |
| 12      | 2-Methylnaphthalene        | 0.735 | 0.713 | 3.0   | 96    | 0.00     |
| 13 I    | Acenaphthene-d10           | 1.000 | 1.000 | 0.0   | 94    | 0.00     |
| 14 S    | 2,4,6-Tribromophenol       | 0.165 | 0.126 | 23.6  | 80    | 0.00     |
| 15 S    | 2-Fluorobiphenyl           | 1.602 | 1.511 | 5.7   | 90    | 0.00     |
| 16      | Acenaphthylene             | 1.811 | 1.718 | 5.1   | 94    | 0.00     |
| 17      | Acenaphthene               | 1.267 | 1.226 | 3.2   | 95    | 0.00     |
| 18      | Fluorene                   | 1.661 | 1.586 | 4.5   | 93    | 0.00     |
| 19 I    | Phenanthrene-d10           | 1.000 | 1.000 | 0.0   | 88    | 0.00     |
| 20      | 4,6-Dinitro-2-methylphenol | 0.055 | 0.038 | 30.9# | 73    | 0.00     |
| 21      | 4-Bromophenyl-phenylether  | 0.262 | 0.260 | 0.8   | 91    | 0.00     |
| 22      | Hexachlorobenzene          | 0.298 | 0.316 | -6.0  | 93    | -0.01    |
| 23      | Atrazine                   | 0.192 | 0.162 | 15.6  | 81    | 0.00     |
| 24      | Pentachlorophenol          | 0.128 | 0.085 | 33.6# | 69    | 0.00     |
| 25      | Phenanthrene               | 1.270 | 1.235 | 2.8   | 89    | 0.00     |
| 26      | Anthracene                 | 1.111 | 1.040 | 6.4   | 87    | 0.00     |
| 27 SURR | Fluoranthene-d10           | 1.009 | 0.826 | 18.1  | 76    | 0.00     |
| 28      | Fluoranthene               | 1.419 | 1.185 | 16.5  | 77    | 0.00     |
| 29 I    | Chrysene-d12               | 1.000 | 1.000 | 0.0   | 66    | 0.00     |
| 30      | Pyrene                     | 1.806 | 2.085 | -15.4 | 75    | 0.00     |
| 31 S    | Terphenyl-d14              | 0.869 | 0.962 | -10.7 | 73    | 0.00     |
| 32      | Benzo(a)anthracene         | 1.427 | 1.342 | 6.0   | 66    | 0.00     |
| 33      | Chrysene                   | 1.549 | 1.590 | -2.6  | 68    | 0.00     |
| 34      | Bis(2-ethylhexyl)phthalate | 0.752 | 0.722 | 4.0   | 66    | 0.00     |
| 35 I    | Perylene-d12               | 1.000 | 1.000 | 0.0   | 67    | 0.00     |
| 36      | Indeno(1,2,3-cd)pyrene     | 1.643 | 1.816 | -10.5 | 76    | 0.00     |
| 37      | Benzo(b)fluoranthene       | 1.710 | 1.678 | 1.9   | 69    | 0.00     |
| 38      | Benzo(k)fluoranthene       | 1.721 | 1.748 | -1.6  | 72    | 0.00     |
| 39 C    | Benzo(a)pyrene             | 1.369 | 1.357 | 0.9   | 69    | 0.00     |
| 40      | Dibenzo(a,h)anthracene     | 1.265 | 1.428 | -12.9 | 80    | 0.00     |
| 41      | Benzo(g,h,i)perylene       | 1.444 | 1.650 | -14.3 | 77    | 0.00     |

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN110425\  
 Data File : BN038145.D  
 Acq On : 04 Nov 2025 20:12  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 LabSampleId :  
 SSTDCCC0.4

Quant Time: Nov 04 21:16:11 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN102825.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Oct 29 13:09:46 2025  
 Response via : Initial Calibration

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

|         | Compound                   | Amount | Calc. | %Dev  | Area% | Dev(min) |
|---------|----------------------------|--------|-------|-------|-------|----------|
| 1 I     | 1,4-Dichlorobenzene-d4     | 0.400  | 0.400 | 0.0   | 96    | 0.00     |
| 2       | 1,4-Dioxane                | 0.400  | 0.416 | -4.0  | 97    | 0.00     |
| 3       | n-Nitrosodimethylamine     | 0.400  | 0.394 | 1.5   | 94    | 0.00     |
| 4 S     | 2-Fluorophenol             | 0.400  | 0.374 | 6.5   | 89    | 0.00     |
| 5 S     | Phenol-d6                  | 0.400  | 0.363 | 9.3   | 88    | 0.00     |
| 6       | bis(2-Chloroethyl)ether    | 0.400  | 0.392 | 2.0   | 94    | 0.00     |
| 7 I     | Naphthalene-d8             | 0.400  | 0.400 | 0.0   | 95    | 0.00     |
| 8 S     | Nitrobenzene-d5            | 0.400  | 0.338 | 15.5  | 83    | 0.00     |
| 9       | Naphthalene                | 0.400  | 0.394 | 1.5   | 96    | 0.00     |
| 10      | Hexachlorobutadiene        | 0.400  | 0.420 | -5.0  | 99    | 0.00     |
| 11 SURR | 2-Methylnaphthalene-d10    | 0.400  | 0.377 | 5.8   | 93    | 0.00     |
| 12      | 2-Methylnaphthalene        | 0.400  | 0.388 | 3.0   | 96    | 0.00     |
| 13 I    | Acenaphthene-d10           | 0.400  | 0.400 | 0.0   | 94    | 0.00     |
| 14 S    | 2,4,6-Tribromophenol       | 0.400  | 0.306 | 23.5  | 80    | 0.00     |
| 15 S    | 2-Fluorobiphenyl           | 0.400  | 0.377 | 5.8   | 90    | 0.00     |
| 16      | Acenaphthylene             | 0.400  | 0.379 | 5.3   | 94    | 0.00     |
| 17      | Acenaphthene               | 0.400  | 0.387 | 3.3   | 95    | 0.00     |
| 18      | Fluorene                   | 0.400  | 0.382 | 4.5   | 93    | 0.00     |
| 19 I    | Phenanthrene-d10           | 0.400  | 0.400 | 0.0   | 88    | 0.00     |
| 20      | 4,6-Dinitro-2-methylphenol | 0.400  | 0.380 | 5.0   | 73    | 0.00     |
| 21      | 4-Bromophenyl-phenylether  | 0.400  | 0.397 | 0.8   | 91    | 0.00     |
| 22      | Hexachlorobenzene          | 0.400  | 0.423 | -5.7  | 93    | -0.01    |
| 23      | Atrazine                   | 0.400  | 0.337 | 15.8  | 81    | 0.00     |
| 24      | Pentachlorophenol          | 0.400  | 0.266 | 33.5# | 69    | 0.00     |
| 25      | Phenanthrene               | 0.400  | 0.389 | 2.8   | 89    | 0.00     |
| 26      | Anthracene                 | 0.400  | 0.374 | 6.5   | 87    | 0.00     |
| 27 SURR | Fluoranthene-d10           | 0.400  | 0.327 | 18.3  | 76    | 0.00     |
| 28      | Fluoranthene               | 0.400  | 0.334 | 16.5  | 77    | 0.00     |
| 29 I    | Chrysene-d12               | 0.400  | 0.400 | 0.0   | 66    | 0.00     |
| 30      | Pyrene                     | 0.400  | 0.462 | -15.5 | 75    | 0.00     |
| 31 S    | Terphenyl-d14              | 0.400  | 0.443 | -10.7 | 73    | 0.00     |
| 32      | Benzo(a)anthracene         | 0.400  | 0.376 | 6.0   | 66    | 0.00     |
| 33      | Chrysene                   | 0.400  | 0.411 | -2.7  | 68    | 0.00     |
| 34      | Bis(2-ethylhexyl)phthalate | 0.400  | 0.384 | 4.0   | 66    | 0.00     |
| 35 I    | Perylene-d12               | 0.400  | 0.400 | 0.0   | 67    | 0.00     |
| 36      | Indeno(1,2,3-cd)pyrene     | 0.400  | 0.442 | -10.5 | 76    | 0.00     |
| 37      | Benzo(b)fluoranthene       | 0.400  | 0.393 | 1.8   | 69    | 0.00     |
| 38      | Benzo(k)fluoranthene       | 0.400  | 0.406 | -1.5  | 72    | 0.00     |
| 39 C    | Benzo(a)pyrene             | 0.400  | 0.397 | 0.8   | 69    | 0.00     |
| 40      | Dibenzo(a,h)anthracene     | 0.400  | 0.452 | -13.0 | 80    | 0.00     |
| 41      | Benzo(g,h,i)perylene       | 0.400  | 0.457 | -14.2 | 77    | 0.00     |

(#) = Out of Range

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



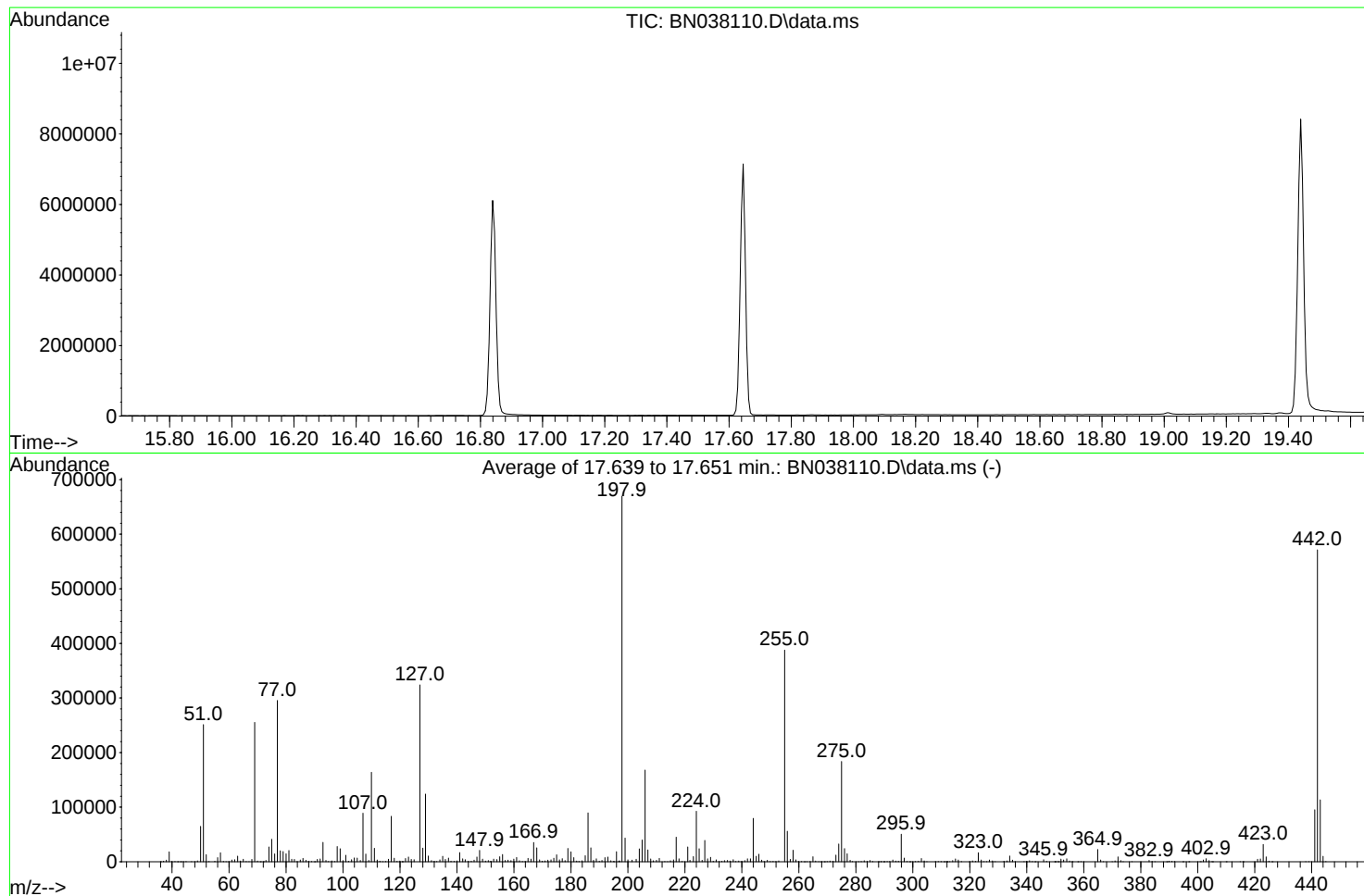
# QC SAMPLE DATA

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN102825\  
Data File : BN038110.D  
Acq On : 28 Oct 2025 12:05  
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-BN102825.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
Last Update : Wed Oct 29 13:09:46 2025



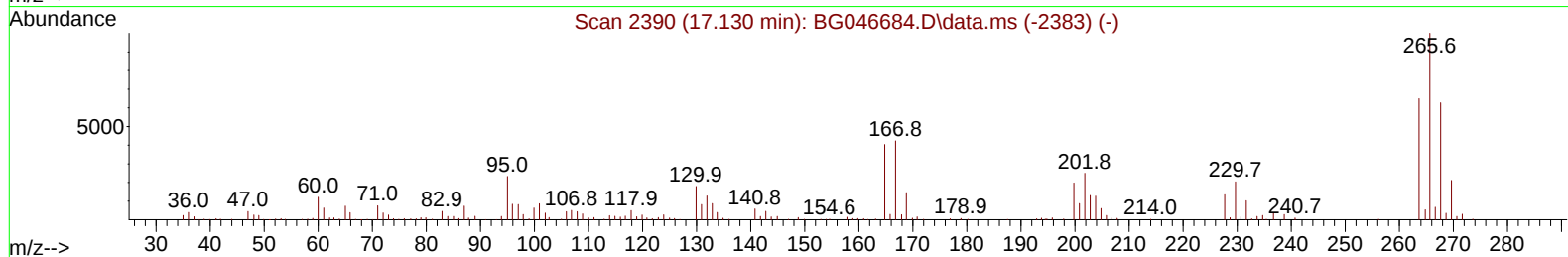
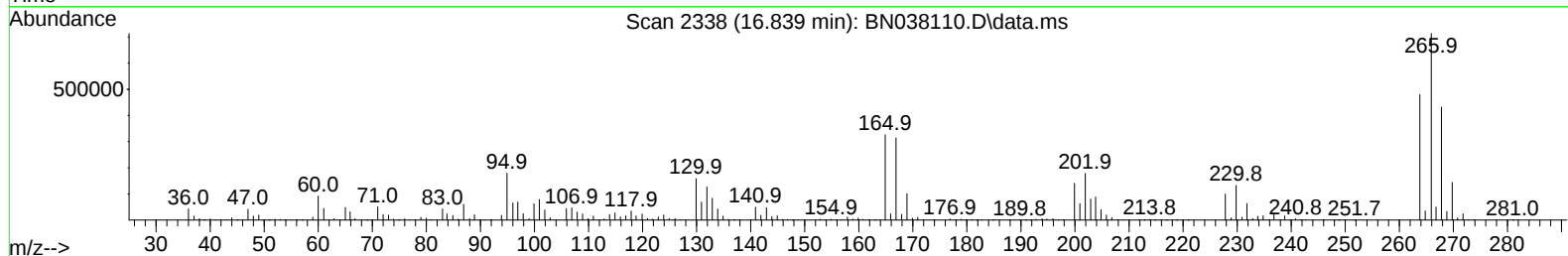
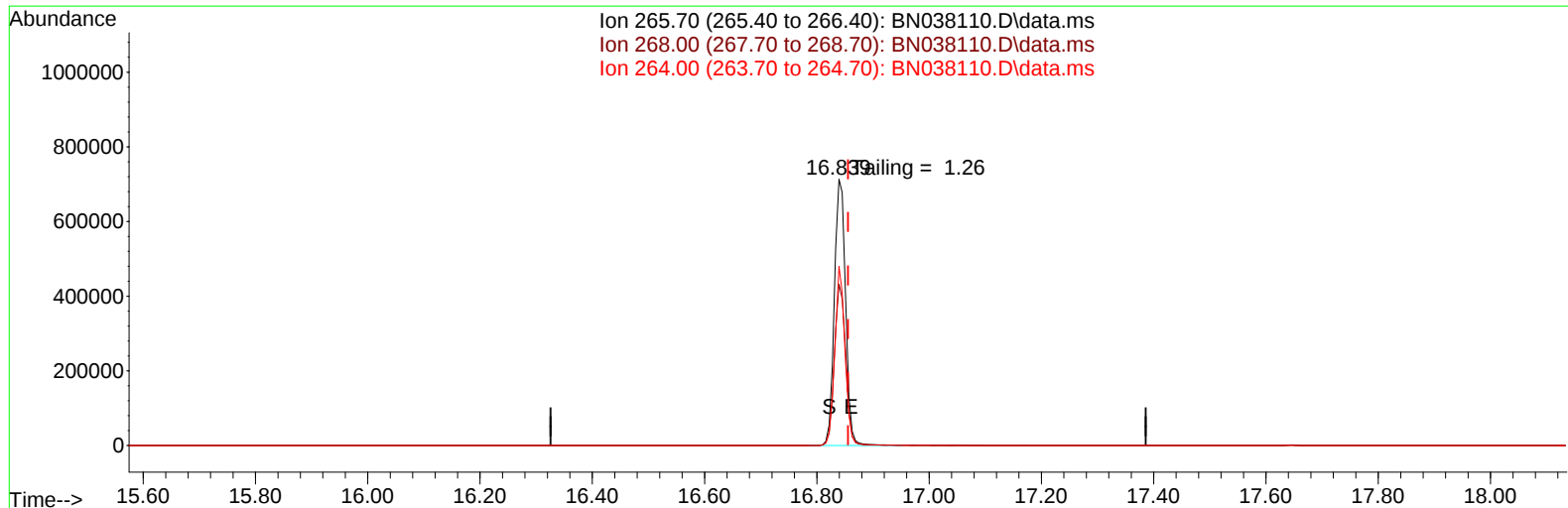
AutoFind: Scans 2474, 2475, 2476; Background Corrected with Scan 2467

| Target | Rel. to | Lower  | Upper  | Rel.  | Raw    | Result    |
|--------|---------|--------|--------|-------|--------|-----------|
| Mass   | Mass    | Limit% | Limit% | Abn%  | Abn    | Pass/Fail |
| 68     | 69      | 0.00   | 2      | 1.8   | 4477   | PASS      |
| 69     | 69      | 100    | 100    | 100.0 | 255398 | PASS      |
| 70     | 69      | 0.00   | 2      | 0.5   | 1371   | PASS      |
| 197    | 198     | 0.00   | 2      | 0.2   | 1550   | PASS      |
| 198    | 198     | 100    | 100    | 100.0 | 669440 | PASS      |
| 199    | 198     | 5      | 9      | 6.5   | 43461  | PASS      |
| 365    | 198     | 1      | 100    | 3.4   | 22528  | PASS      |
| 441    | 443     | 0.01   | 150    | 83.9  | 95293  | PASS      |
| 442    | 442     | 100    | 100    | 100.0 | 571285 | PASS      |
| 443    | 442     | 15     | 24     | 19.9  | 113539 | PASS      |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN102825\  
Data File : BN038110.D  
Acq On : 28 Oct 2025 12:05  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

Quant Time: Oct 28 18:06:35 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270E-Tune.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Oct 28 12:54:48 2025  
Response via : Initial Calibration



TIC: BN038110.D\data.ms

**(70) Pentachlorophenol (C)**

16.839min (-0.017) 31764.46 ng

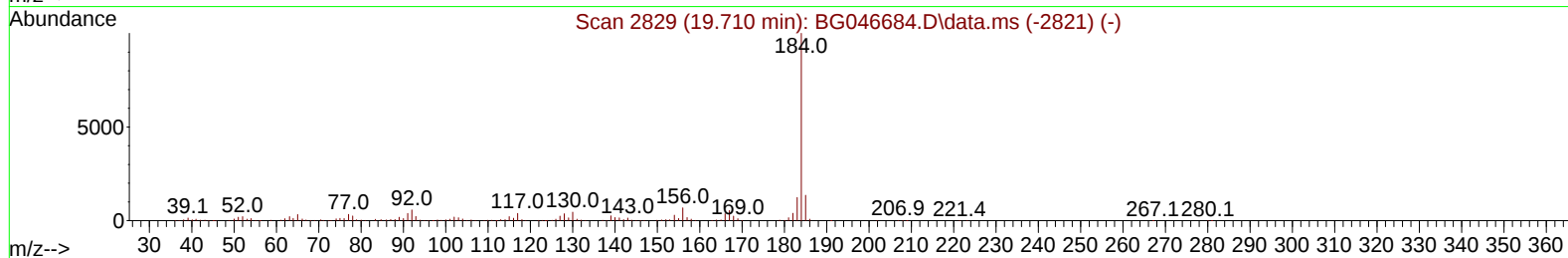
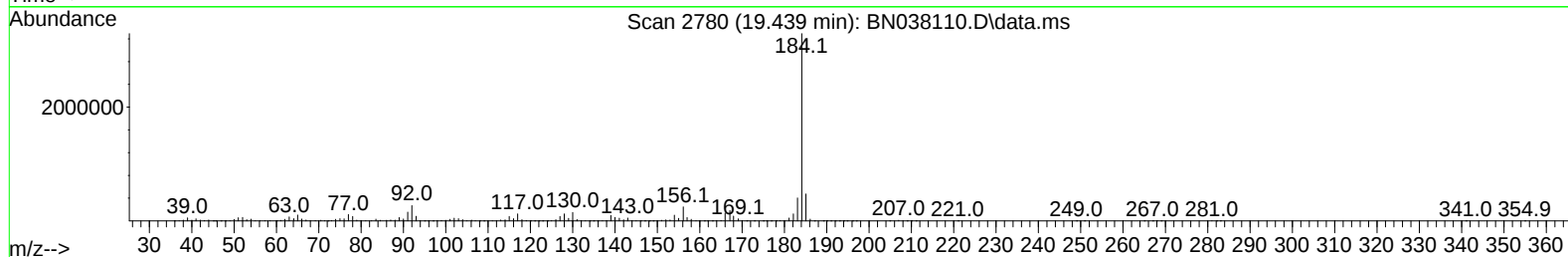
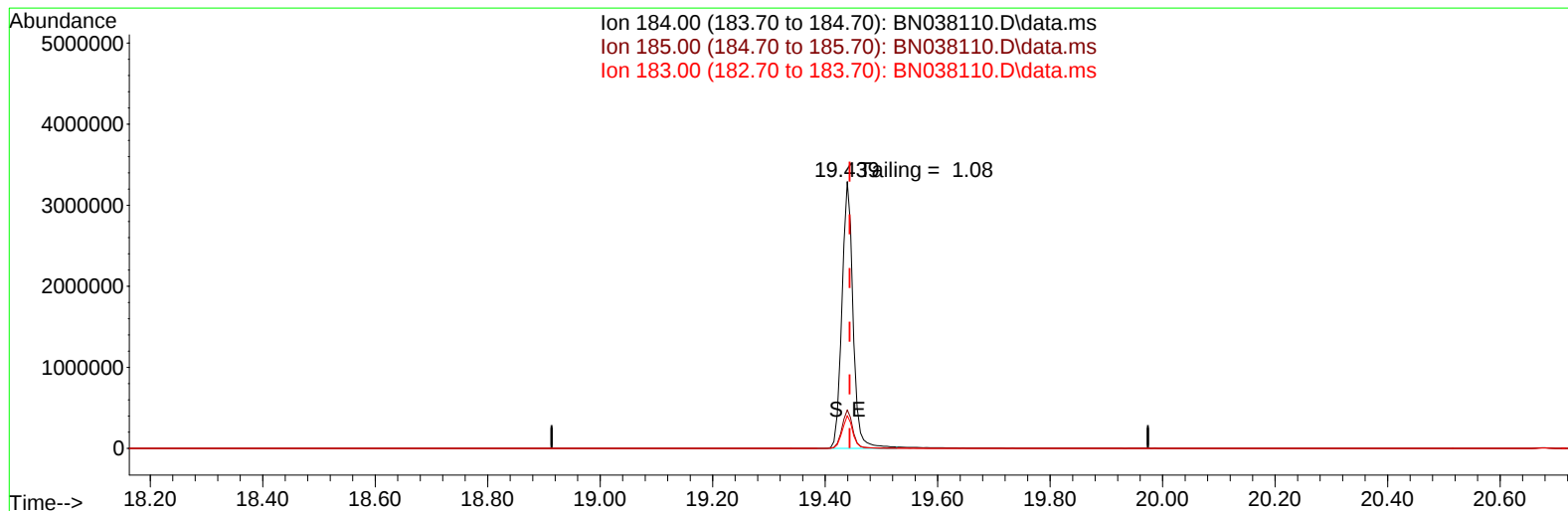
response 993628

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 265.70 | 100.00 | 100.00 |
| 268.00 | 62.20  | 60.51  |
| 264.00 | 61.60  | 67.24  |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN102825\  
Data File : BN038110.D  
Acq On : 28 Oct 2025 12:05  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

Quant Time: Oct 28 18:06:35 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270E-Tune.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Oct 28 12:54:48 2025  
Response via : Initial Calibration



TIC: BN038110.D\data.ms

**(77) Benzidine**

19.439min (-0.005) 0.00 ng

response 4602519

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 184.00 | 100.00 | 100.00 |
| 185.00 | 15.50  | 14.42  |
| 183.00 | 13.20  | 12.28  |
| 0.00   | 0.00   | 0.00   |

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

DDT Breakdown

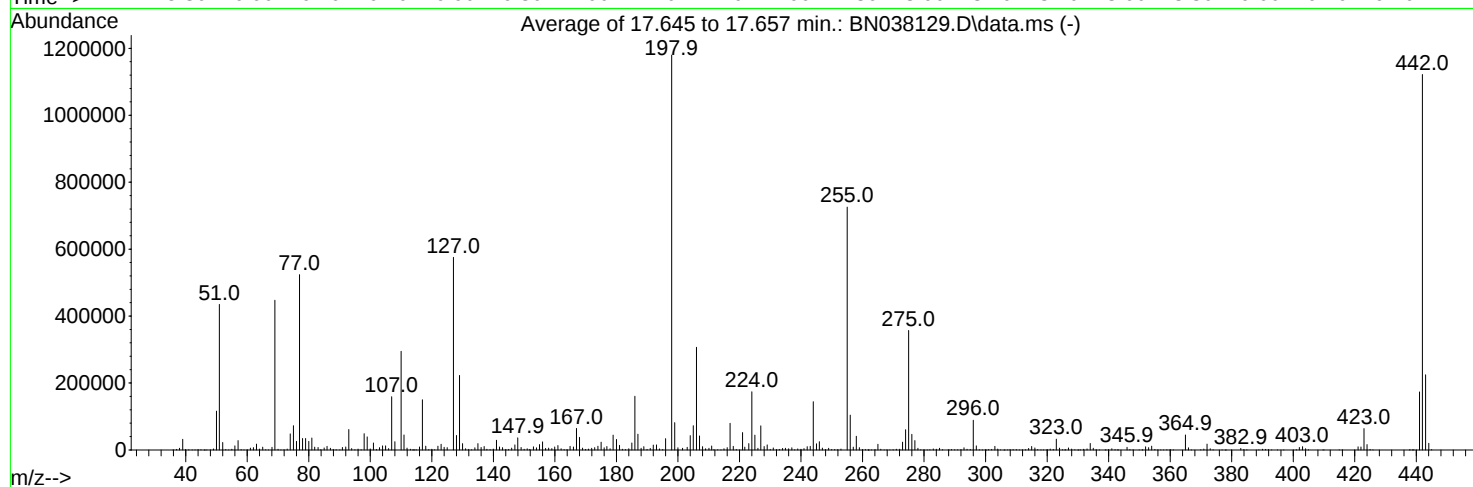
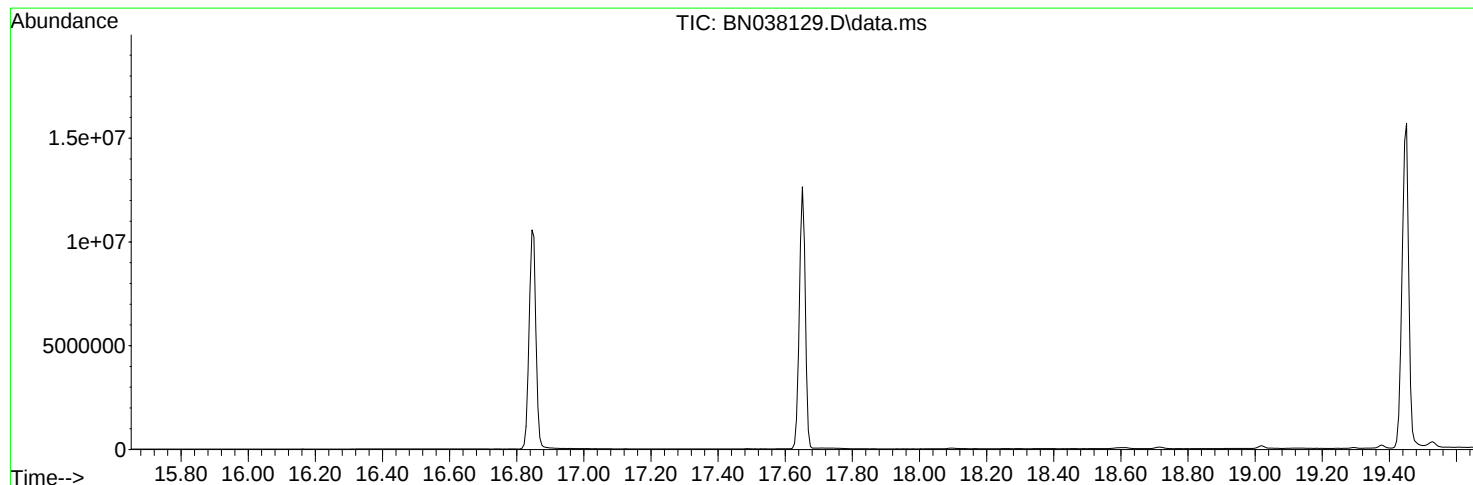
| Date          | Instrument Name  | DFTPP Data File    |
|---------------|------------------|--------------------|
| 10/28/2025    | BNA_N            | <u>BN038110.D</u>  |
|               |                  |                    |
|               |                  |                    |
| Compound Name | Response         | Retention Time     |
|               |                  |                    |
| DDT           | 2477320          | 20.674             |
| DDD           | 29265            | 20.233             |
| DDE           | 1740             | 19.733             |
|               |                  |                    |
|               |                  |                    |
| SUM(DDD+DDE)  | SUM(DDT+DDD+DDE) | % Breakdown Of DDT |
|               |                  |                    |
| 31005         | 2508325          | 1.24               |
|               |                  |                    |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN110425\  
Data File : BN038129.D  
Acq On : 04 Nov 2025 10:00  
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-BN102825.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
Last Update : Wed Oct 29 13:09:46 2025



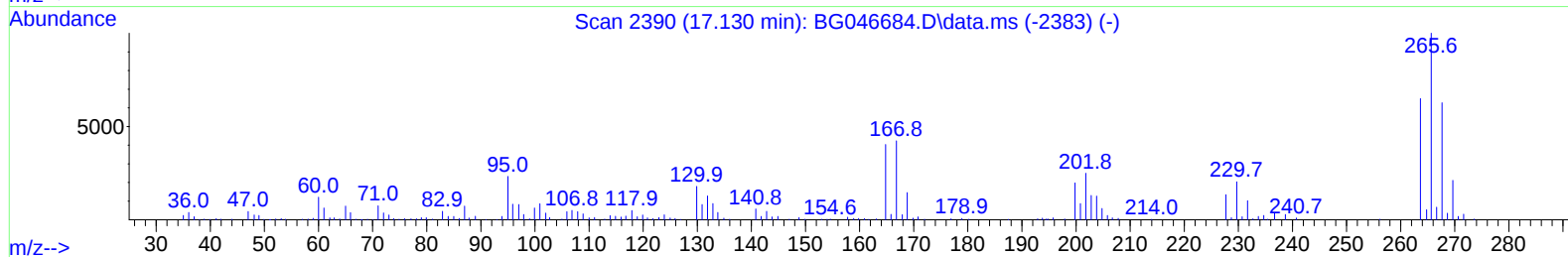
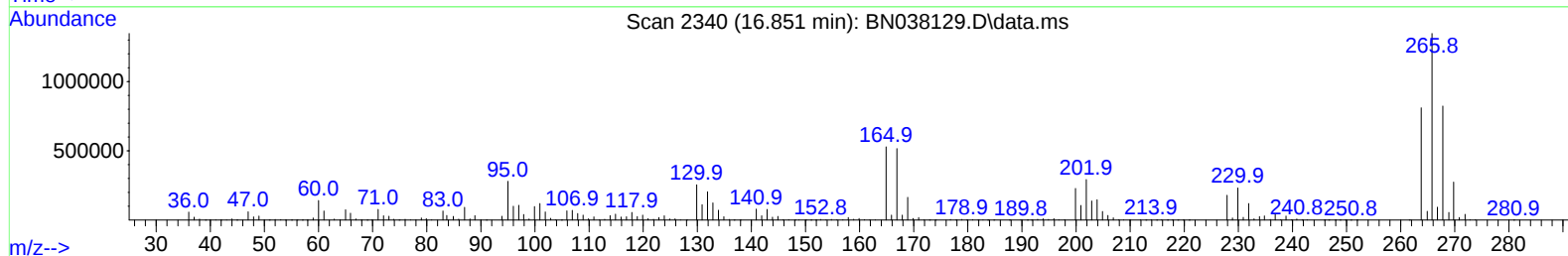
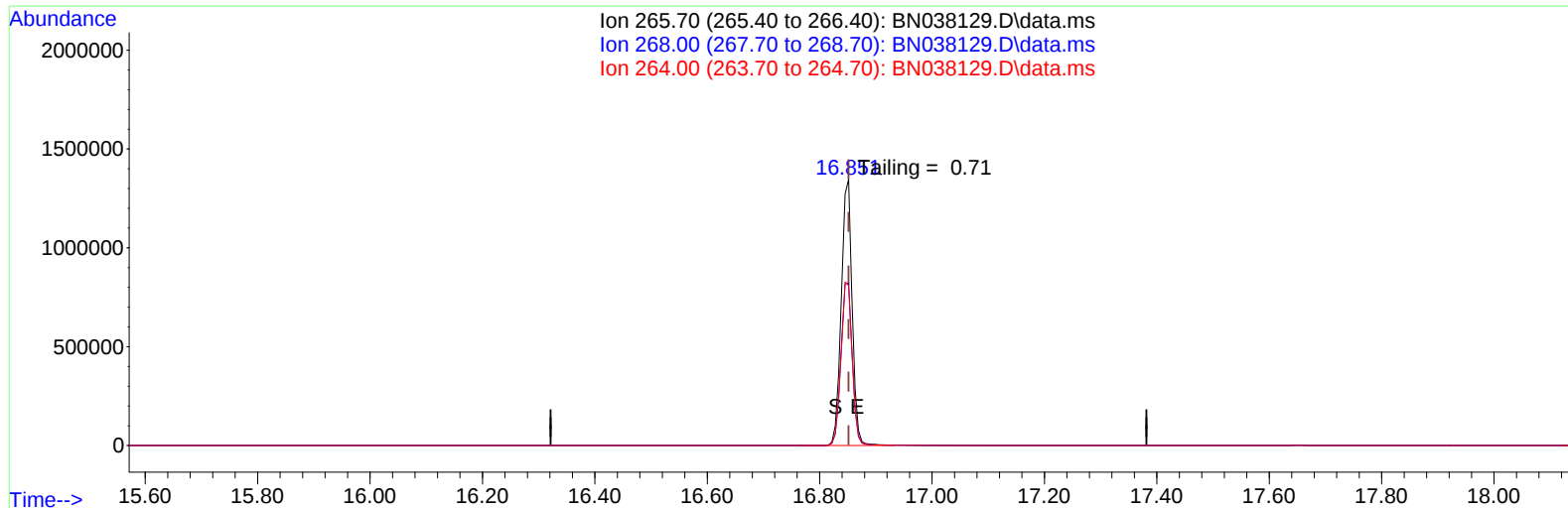
AutoFind: Scans 2475, 2476, 2477; Background Corrected with Scan 2467

| Target<br>Mass | Rel. to<br>Mass | Lower<br>Limit% | Upper<br>Limit% | Rel.<br>Abn% | Raw<br>Abn | Result<br>Pass/Fail |
|----------------|-----------------|-----------------|-----------------|--------------|------------|---------------------|
| 68             | 69              | 0.00            | 2               | 1.8          | 7977       | PASS                |
| 69             | 69              | 100             | 100             | 100.0        | 447289     | PASS                |
| 70             | 69              | 0.00            | 2               | 0.5          | 2389       | PASS                |
| 197            | 198             | 0.00            | 2               | 0.0          | 0          | PASS                |
| 198            | 198             | 100             | 100             | 100.0        | 1179904    | PASS                |
| 199            | 198             | 5               | 9               | 6.9          | 81427      | PASS                |
| 365            | 198             | 1               | 100             | 3.8          | 44821      | PASS                |
| 441            | 443             | 0.01            | 150             | 77.2         | 173248     | PASS                |
| 442            | 442             | 100             | 100             | 100.0        | 1122112    | PASS                |
| 443            | 442             | 15              | 24              | 20.0         | 224533     | PASS                |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN110425\  
Data File : BN038129.D  
Acq On : 04 Nov 2025 10:00  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

Quant Time: Nov 04 14:05:28 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270E-Tune.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Nov 04 14:05:21 2025  
Response via : Initial Calibration



TIC: BN038129.D\data.ms

**(70) Pentachlorophenol (C)**

16.851min ( 0.000) 277.93 ng

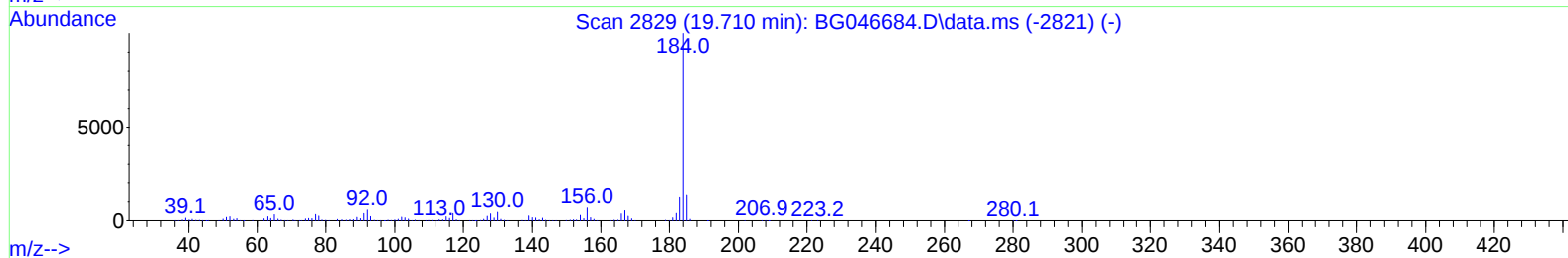
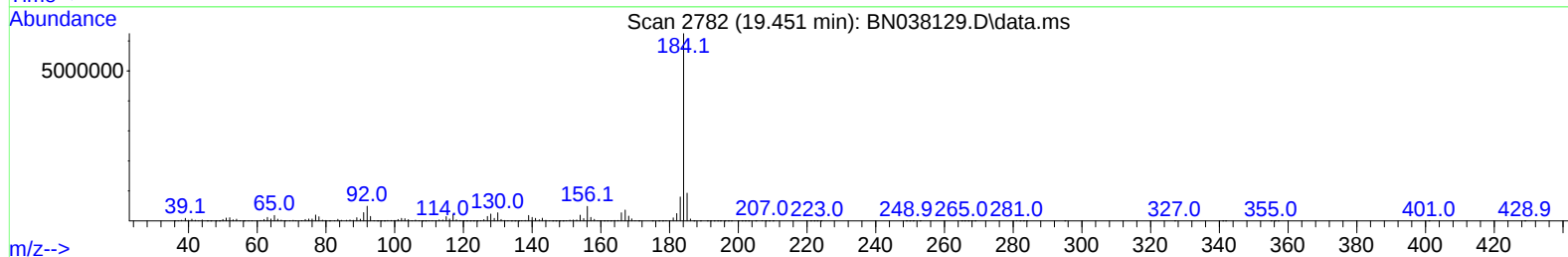
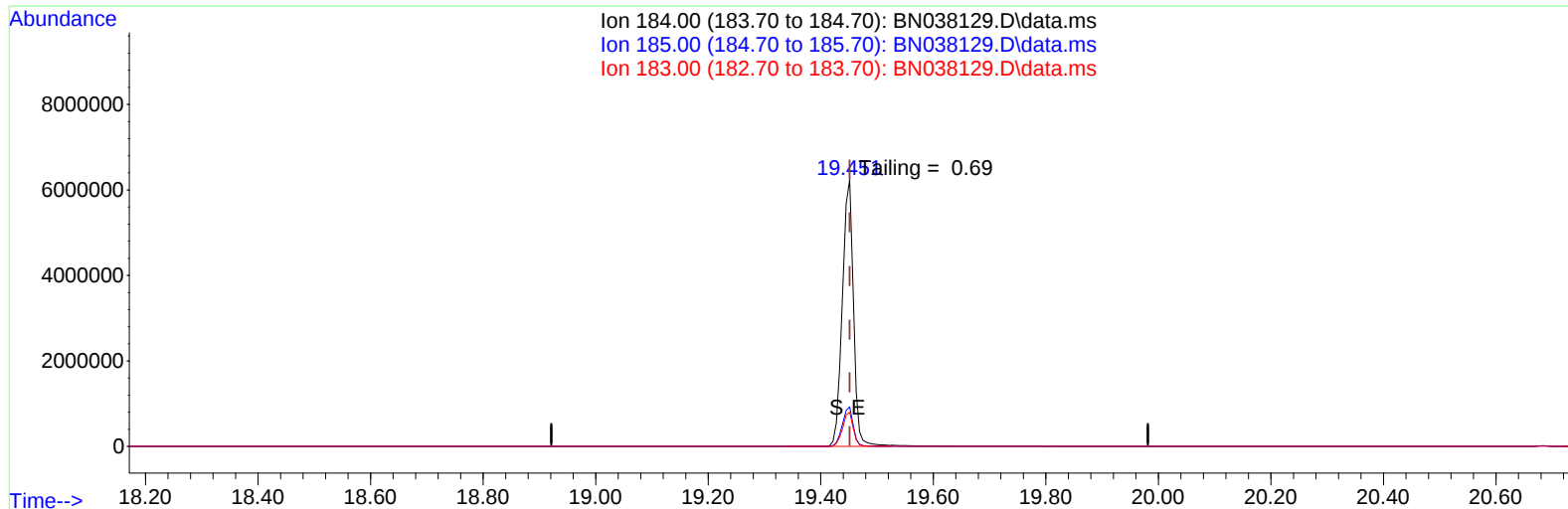
response 1813451

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 265.70 | 100.00 | 100.00 |
| 268.00 | 62.20  | 61.08  |
| 264.00 | 61.60  | 60.19  |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN110425\  
Data File : BN038129.D  
Acq On : 04 Nov 2025 10:00  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

Quant Time: Nov 04 14:05:28 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270E-Tune.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Nov 04 14:05:21 2025  
Response via : Initial Calibration



TIC: BN038129.D\data.ms

(77) Benzidine

19.451min ( 0.000) 0.00 ng

response 8673581

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 184.00 | 100.00 | 100.00 |
| 185.00 | 15.50  | 14.80  |
| 183.00 | 13.20  | 12.79  |
| 0.00   | 0.00   | 0.00   |

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

DDT Breakdown

| Date          | Instrument Name  | DFTPP Data File    |
|---------------|------------------|--------------------|
| 11/4/2025     | BNA_N            | <u>BN038129.D</u>  |
|               |                  |                    |
|               |                  |                    |
| Compound Name | Response         | Retention Time     |
|               |                  |                    |
| DDT           | 4564306          | 20.686             |
| DDD           | 39263            | 20.233             |
| DDE           | 2743             | 19.733             |
|               |                  |                    |
|               |                  |                    |
| SUM(DDD+DDE)  | SUM(DDT+DDD+DDE) | % Breakdown Of DDT |
|               |                  |                    |
| 42006         | 4606312          | 0.91               |
|               |                  |                    |

## Report of Analysis

|                    |                               |                     |                 |                |
|--------------------|-------------------------------|---------------------|-----------------|----------------|
| Client:            | Tetra Tech NUS, Inc.          |                     | Date Collected: |                |
| Project:           | NWIRP Bethpage 112G08005-WE13 |                     | Date Received:  |                |
| Client Sample ID:  | PB170381BL                    |                     | SDG No.:        | Q3526          |
| Lab Sample ID:     | PB170381BL                    |                     | Matrix:         | Water          |
| Analytical Method: | SW8270ESIM                    | Level: LOW          | % Solid:        | 0              |
| Sample Wt/Vol:     | 1000 mL                       | Final Vol: 1000 uL  | Test:           | SVOC-SIMGroup1 |
| Prep Method :      | 3510C                         | Prep Date: 11/03/25 |                 |                |

| CAS Number                | Parameter               | Conc.             | Qua. | DF | MDL      | LOD  | LOQ / CRQL | Units    | Date Ana.      | Prep BatchID |
|---------------------------|-------------------------|-------------------|------|----|----------|------|------------|----------|----------------|--------------|
| <b>TARGETS</b>            |                         |                   |      |    |          |      |            |          |                |              |
| 123-91-1                  | 1,4-Dioxane             | 0.20              | U    | 1  | 0.070    | 0.20 | 0.20       | ug/L     | 11/04/25 11:43 | PB170381     |
| <b>SURROGATES</b>         |                         |                   |      |    |          |      |            |          |                |              |
| 7297-45-2                 | 2-Methylnaphthalene-d10 | 0.33              |      |    | 30 - 150 |      | 83%        | SPK: 0.4 |                |              |
| 93951-69-0                | Fluoranthene-d10        | 0.35              |      |    | 30 - 150 |      | 88%        | SPK: 0.4 |                |              |
| 4165-60-0                 | Nitrobenzene-d5         | 0.35              |      |    | 55 - 111 |      | 88%        | SPK: 0.4 |                |              |
| 321-60-8                  | 2-Fluorobiphenyl        | 0.39              |      |    | 53 - 106 |      | 97%        | SPK: 0.4 |                |              |
| 1718-51-0                 | Terphenyl-d14           | 0.46              |      |    | 58 - 132 |      | 114%       | SPK: 0.4 |                |              |
| <b>INTERNAL STANDARDS</b> |                         |                   |      |    |          |      |            |          |                |              |
|                           |                         | <b>Area Count</b> |      |    |          |      |            |          |                |              |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4  | 8220              |      |    |          |      |            |          |                |              |
| 1146-65-2                 | Naphthalene-d8          | 22200             |      |    |          |      |            |          |                |              |
| 15067-26-2                | Acenaphthene-d10        | 11600             |      |    |          |      |            |          |                |              |
| 1517-22-2                 | Phenanthrene-d10        | 21800             |      |    |          |      |            |          |                |              |
| 1719-03-5                 | Chrysene-d12            | 15200             |      |    |          |      |            |          |                |              |
| 1520-96-3                 | Perylene-d12            | 13200             |      |    |          |      |            |          |                |              |

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\BN110425\  
 Data File : BN038131.D  
 Acq On : 04 Nov 2025 11:43  
 Operator : RC/JU  
 Sample : PB170381BL  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 PB170381BL

Quant Time: Nov 04 12:07:36 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN102825.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Oct 29 13:09:46 2025  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|--------|------|----------|-------|-------|----------|
| -----                       |        |      |          |       |       |          |
| Internal Standards          |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.789  | 152  | 8221     | 0.400 | ng    | 0.01     |
| 7) Naphthalene-d8           | 10.594 | 136  | 22221    | 0.400 | ng    | 0.02     |
| 13) Acenaphthene-d10        | 14.441 | 164  | 11601    | 0.400 | ng    | 0.01     |
| 19) Phenanthrene-d10        | 17.198 | 188  | 21781    | 0.400 | ng    | 0.01     |
| 29) Chrysene-d12            | 21.384 | 240  | 15202    | 0.400 | ng    | 0.00     |
| 35) Perylene-d12            | 23.695 | 264  | 13241    | 0.400 | ng    | 0.01     |
|                             |        |      |          |       |       |          |
| System Monitoring Compounds |        |      |          |       |       |          |
| 4) 2-Fluorophenol           | 5.363  | 112  | 6175     | 0.319 | ng    | 0.01     |
| 5) Phenol-d6                | 6.952  | 99   | 7077     | 0.300 | ng    | 0.01     |
| 8) Nitrobenzene-d5          | 8.939  | 82   | 6330     | 0.353 | ng    | 0.01     |
| 11) 2-Methylnaphthalene-d10 | 12.187 | 152  | 10488    | 0.331 | ng    | 0.01     |
| 14) 2,4,6-Tribromophenol    | 15.945 | 330  | 557      | 0.117 | ng    | 0.01     |
| 15) 2-Fluorobiphenyl        | 13.073 | 172  | 18033    | 0.388 | ng    | 0.02     |
| 27) Fluoranthene-d10        | 19.229 | 212  | 19315    | 0.352 | ng    | 0.00     |
| 31) Terphenyl-d14           | 19.829 | 244  | 15022    | 0.455 | ng    | 0.00     |

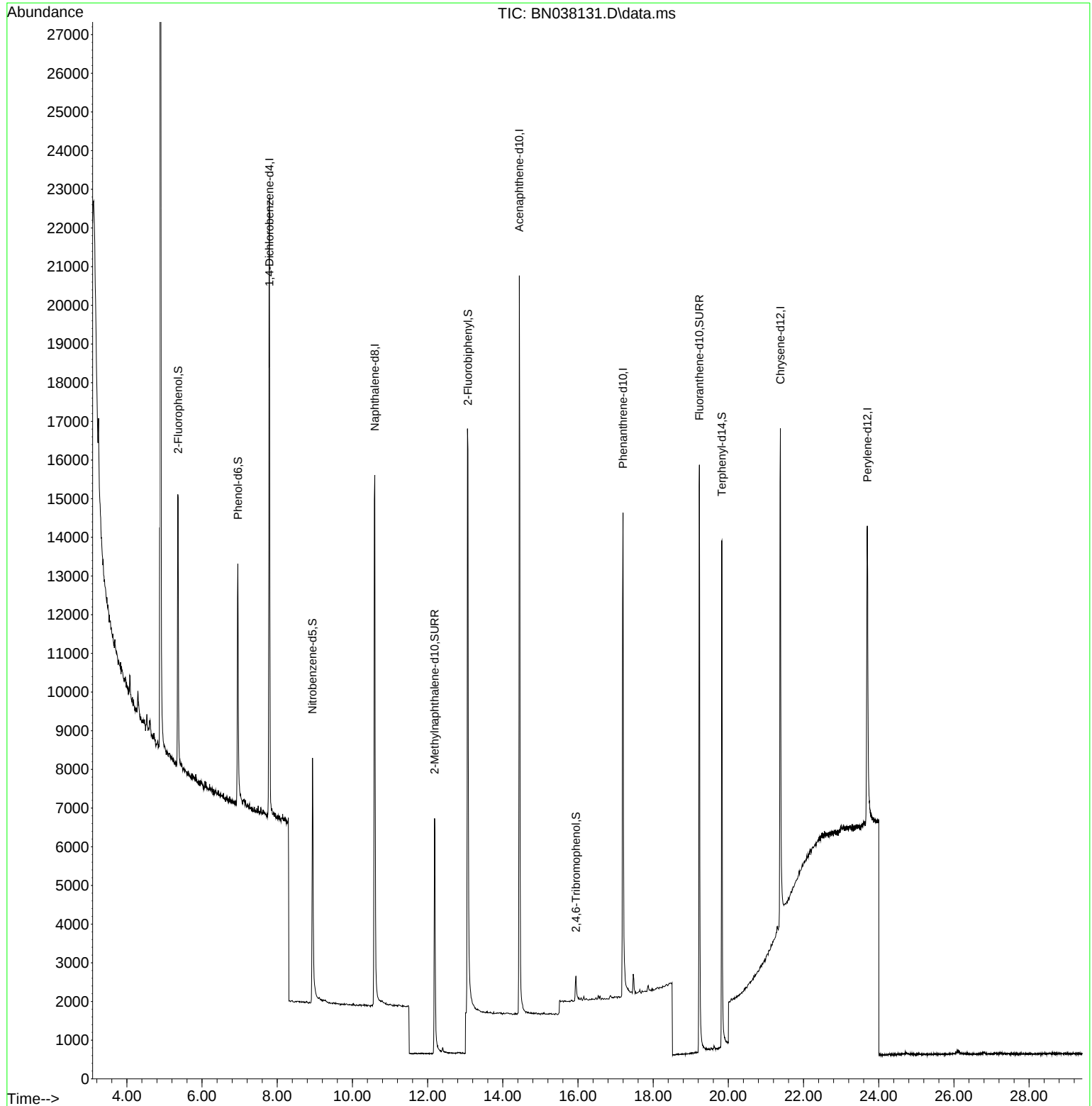
Target Compounds Qvalue

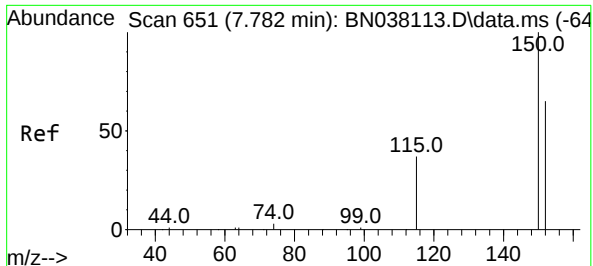
-----  
 (#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN110425\  
Data File : BN038131.D  
Acq On : 04 Nov 2025 11:43  
Operator : RC/JU  
Sample : PB170381BL  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
PB170381BL

Quant Time: Nov 04 12:07:36 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN102825.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Oct 29 13:09:46 2025  
Response via : Initial Calibration

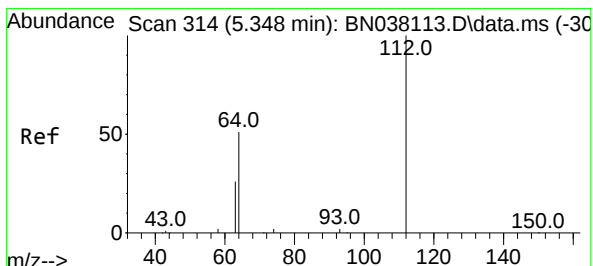
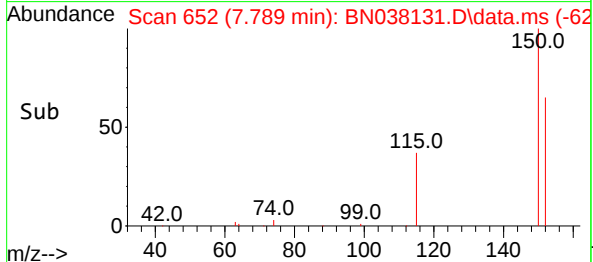
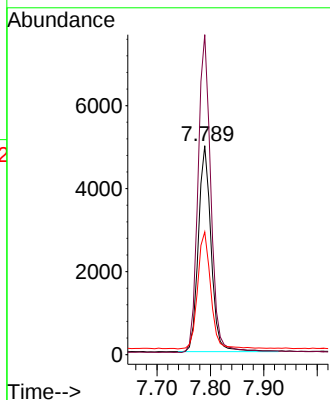
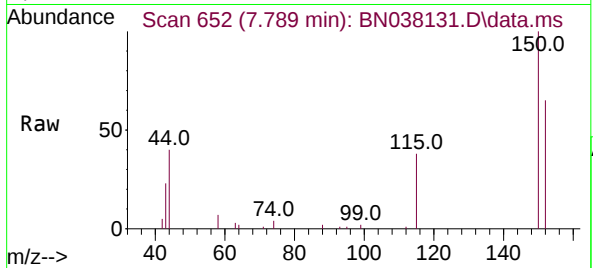




#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.789 min Scan# 61  
Delta R.T. 0.014 min  
Lab File: BN038131.D  
Acq: 04 Nov 2025 11:43

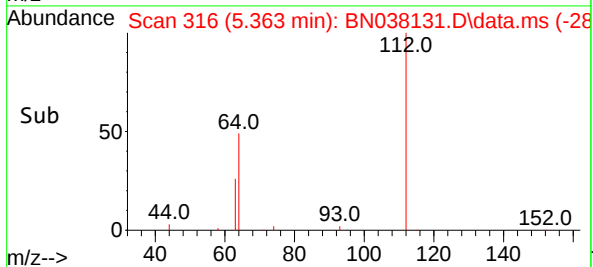
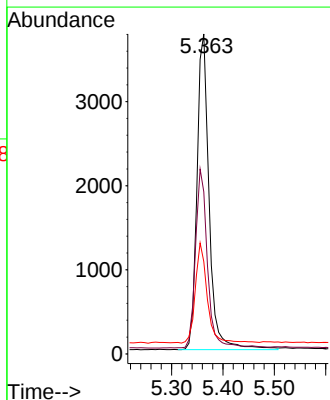
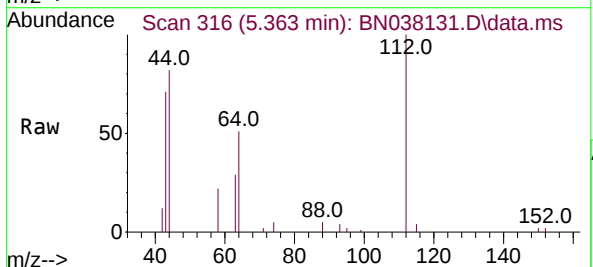
Instrument :  
BNA\_N  
ClientSampleId :  
PB170381BL

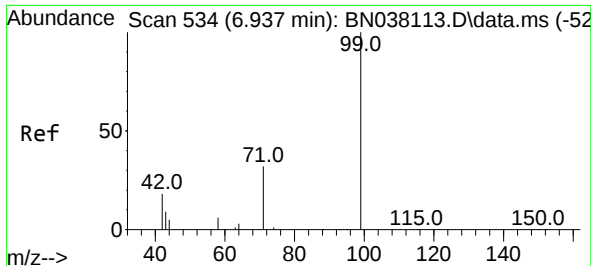
Tgt Ion:152 Resp: 8221  
Ion Ratio Lower Upper  
152 100  
150 153.2 122.3 183.5  
115 58.7 47.4 71.0



#4  
2-Fluorophenol  
Concen: 0.319 ng  
RT: 5.363 min Scan# 316  
Delta R.T. 0.014 min  
Lab File: BN038131.D  
Acq: 04 Nov 2025 11:43

Tgt Ion:112 Resp: 6175  
Ion Ratio Lower Upper  
112 100  
64 55.6 45.4 68.0  
63 30.3 23.2 34.8

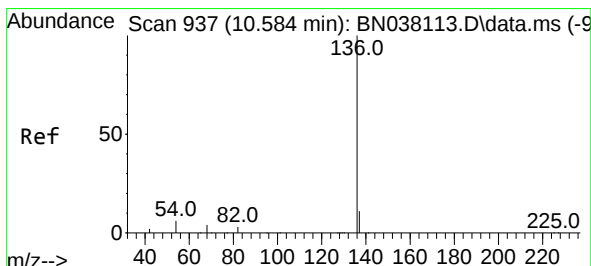
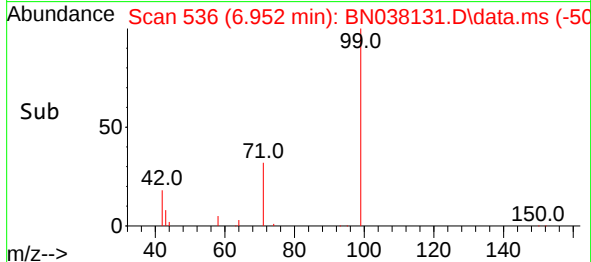
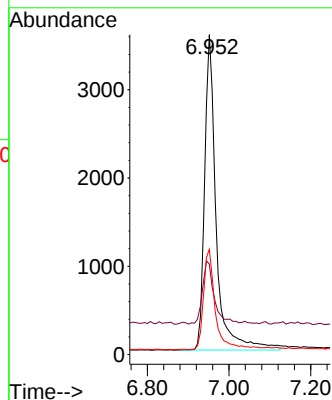
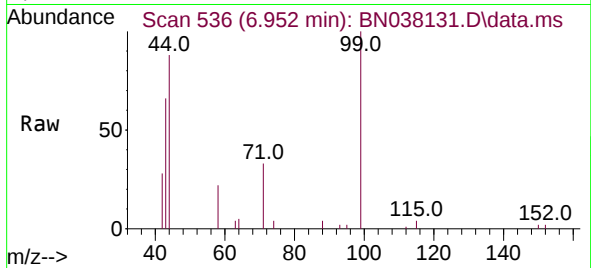




#5  
Phenol-d6  
Concen: 0.300 ng  
RT: 6.952 min Scan# 534  
Delta R.T. 0.014 min  
Lab File: BN038131.D  
Acq: 04 Nov 2025 11:43

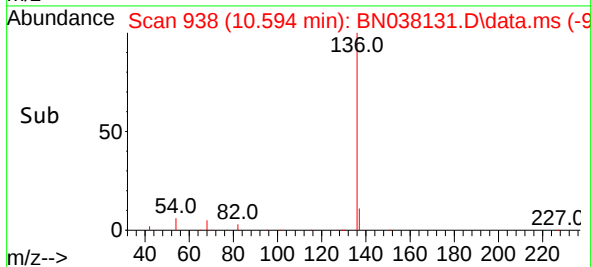
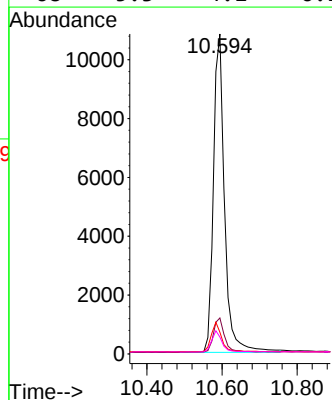
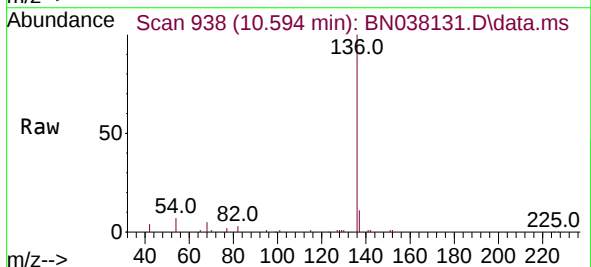
Instrument :  
BNA\_N  
ClientSampleId :  
PB170381BL

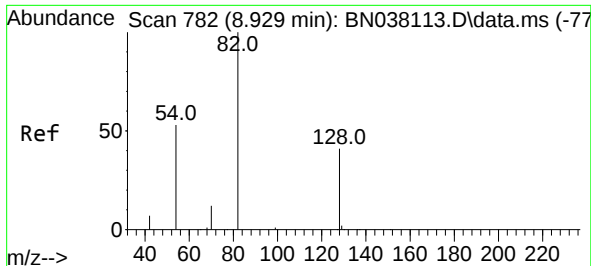
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 99    | Resp: | 7077  |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 20.3  | 16.6  | 24.8  |
| 71       | 31.7  | 25.4  | 38.2  |



#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.594 min Scan# 938  
Delta R.T. 0.021 min  
Lab File: BN038131.D  
Acq: 04 Nov 2025 11:43

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 22221 |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 11.2  | 9.0   | 13.4  |
| 54       | 6.8   | 5.2   | 7.8   |
| 68       | 5.3   | 4.1   | 6.1   |

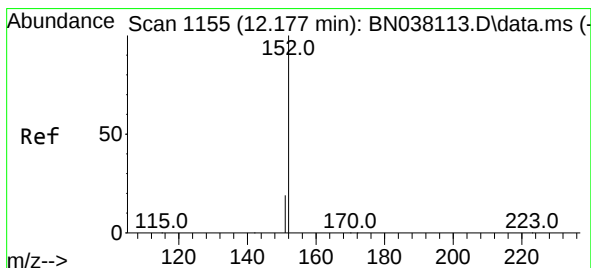
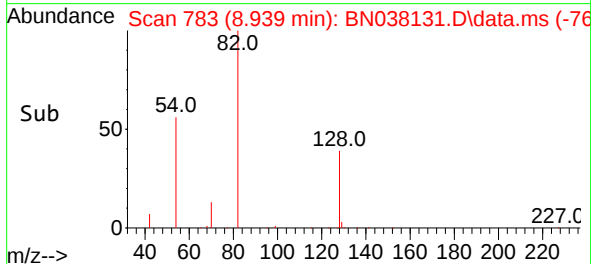
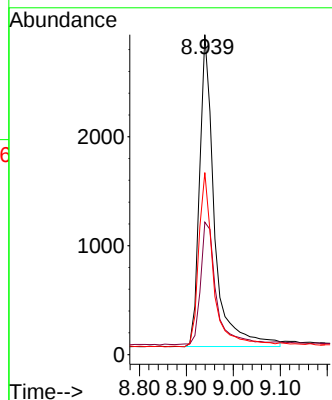
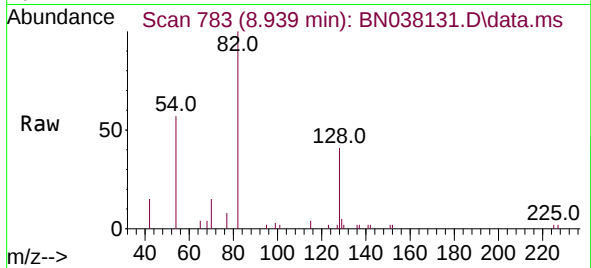




#8  
Nitrobenzene-d5  
Concen: 0.353 ng  
RT: 8.939 min Scan# 782  
Delta R.T. 0.011 min  
Lab File: BN038131.D  
Acq: 04 Nov 2025 11:43

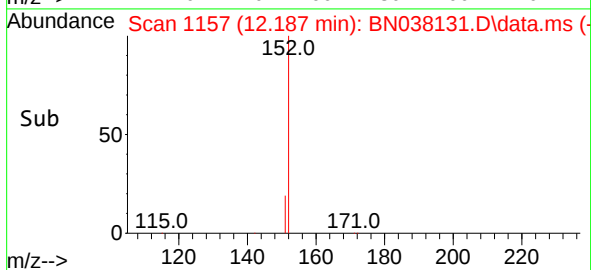
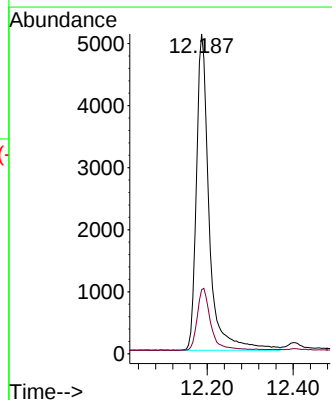
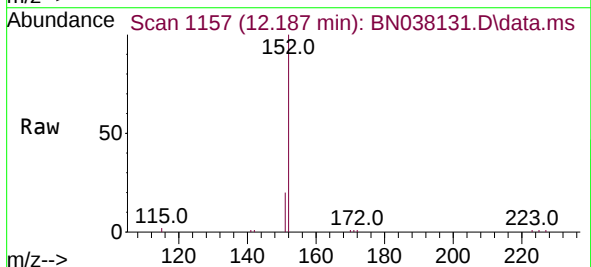
Instrument :  
BNA\_N  
ClientSampleId :  
PB170381BL

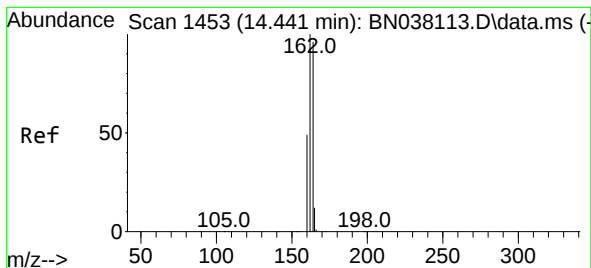
Tgt Ion: 82 Resp: 6330  
Ion Ratio Lower Upper  
82 100  
128 41.4 34.1 51.1  
54 56.9 43.5 65.3



#11  
2-Methylnaphthalene-d10  
Concen: 0.331 ng  
RT: 12.187 min Scan# 1157  
Delta R.T. 0.010 min  
Lab File: BN038131.D  
Acq: 04 Nov 2025 11:43

Tgt Ion: 152 Resp: 10488  
Ion Ratio Lower Upper  
152 100  
151 20.9 16.8 25.2





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.441 min Scan# 1453

Delta R.T. 0.011 min

Lab File: BN038131.D

Acq: 04 Nov 2025 11:43

Instrument :

BNA\_N

ClientSampleId :

PB170381BL

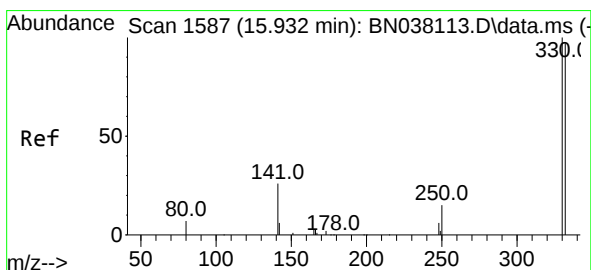
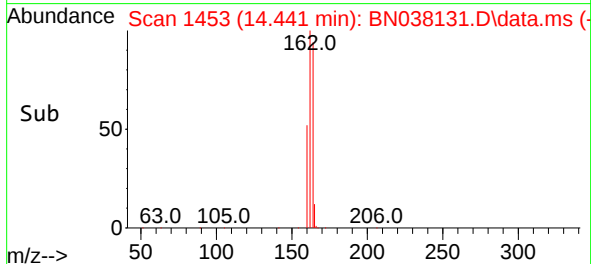
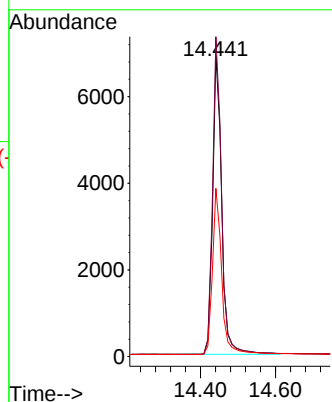
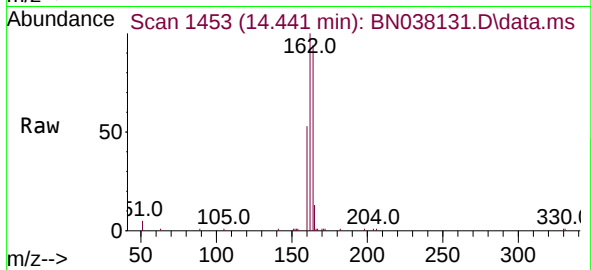
Tgt Ion:164 Resp: 11601

Ion Ratio Lower Upper

164 100

162 106.2 83.0 124.4

160 55.8 40.7 61.1



#14

2,4,6-Tribromophenol

Concen: 0.117 ng

RT: 15.945 min Scan# 1588

Delta R.T. 0.013 min

Lab File: BN038131.D

Acq: 04 Nov 2025 11:43

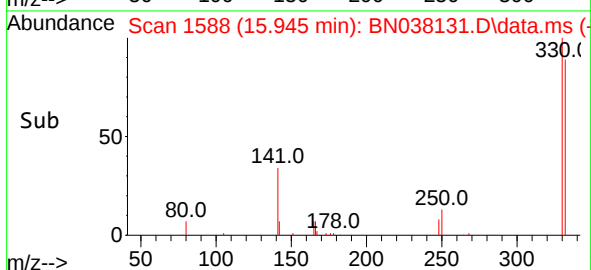
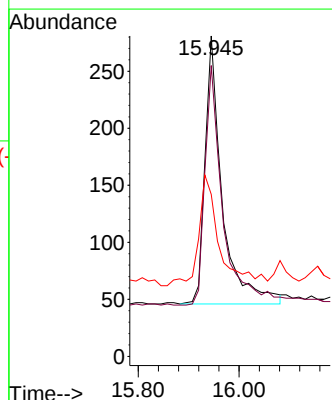
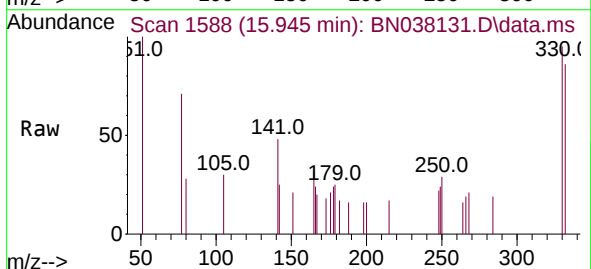
Tgt Ion:330 Resp: 557

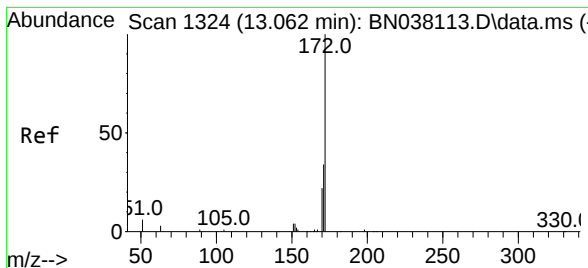
Ion Ratio Lower Upper

330 100

332 93.7 76.6 114.8

141 49.6 34.1 51.1

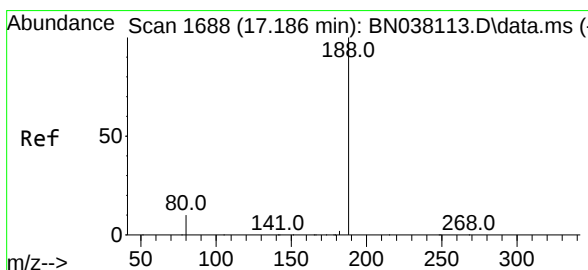
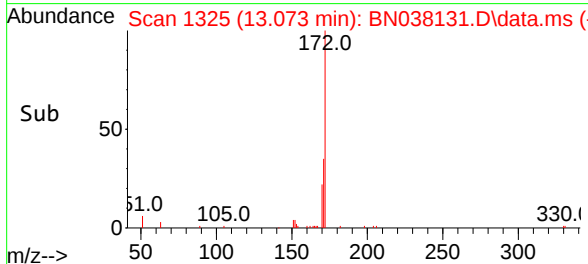
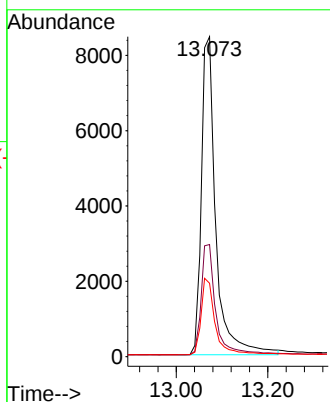
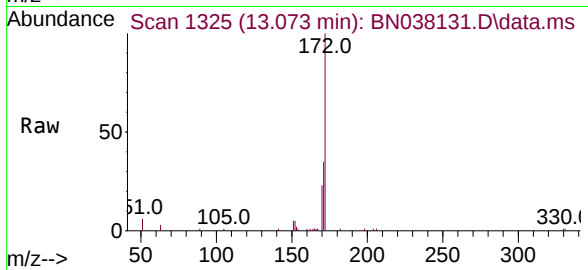




#15  
 2-Fluorobiphenyl  
 Concen: 0.388 ng  
 RT: 13.073 min Scan# 1324  
 Delta R.T. 0.021 min  
 Lab File: BN038131.D  
 Acq: 04 Nov 2025 11:43

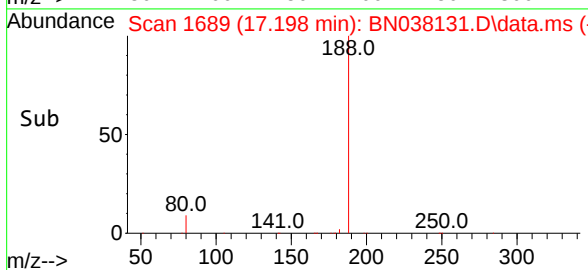
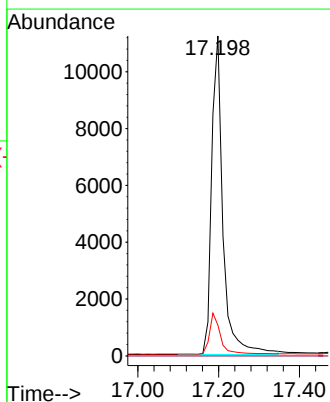
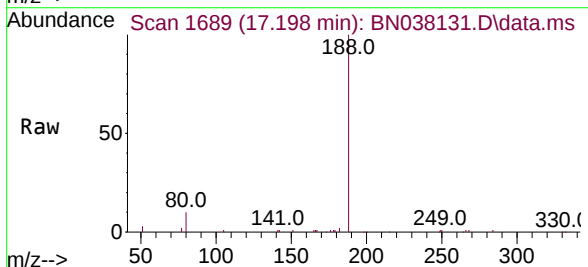
Instrument :  
 BNA\_N  
 ClientSampleId :  
 PB170381BL

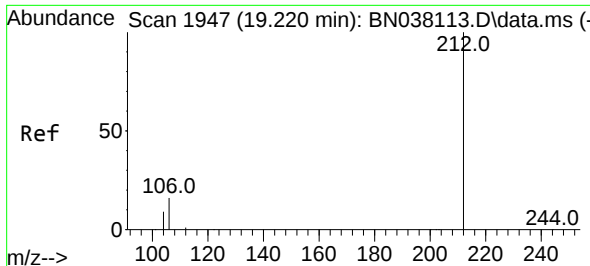
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 172   | Resp: | 18033 |
| Ion Ratio | Lower | Upper |       |
| 172       | 100   |       |       |
| 171       | 35.0  | 27.8  | 41.6  |
| 170       | 22.9  | 18.1  | 27.1  |



#19  
 Phenanthrene-d10  
 Concen: 0.400 ng  
 RT: 17.198 min Scan# 1689  
 Delta R.T. 0.012 min  
 Lab File: BN038131.D  
 Acq: 04 Nov 2025 11:43

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 188   | Resp: | 21781 |
| Ion Ratio | Lower | Upper |       |
| 188       | 100   |       |       |
| 94        | 0.0   | 0.0   | 0.0   |
| 80        | 9.6   | 8.6   | 13.0  |

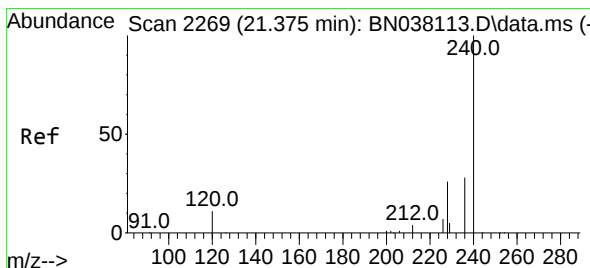
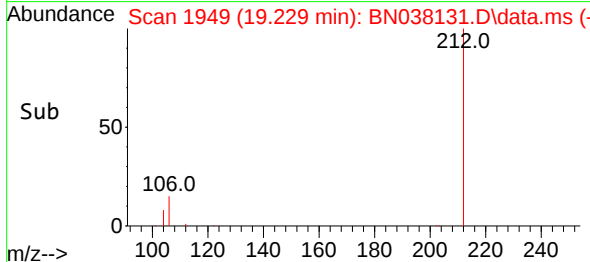
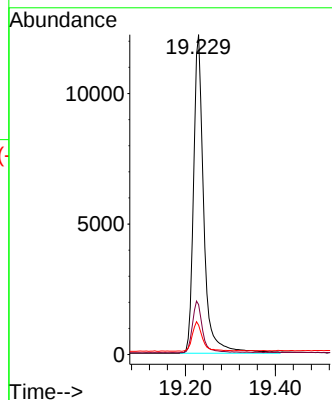
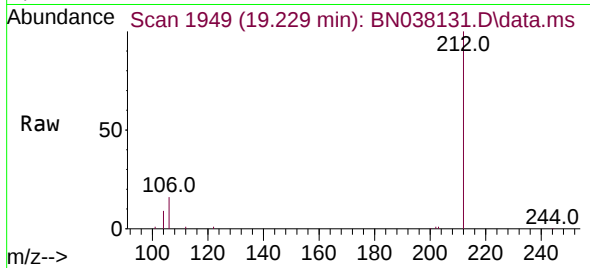




#27  
Fluoranthene-d10  
Concen: 0.352 ng  
RT: 19.229 min Scan# 19  
Delta R.T. 0.009 min  
Lab File: BN038131.D  
Acq: 04 Nov 2025 11:43

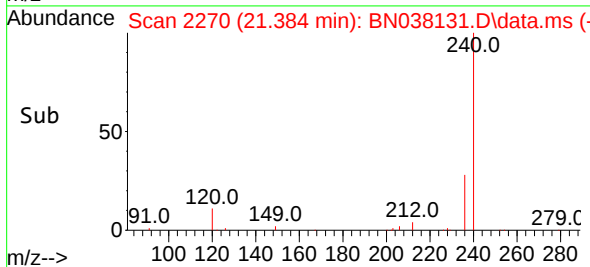
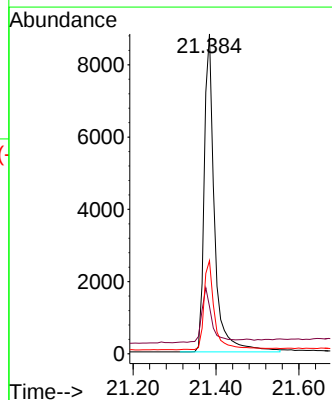
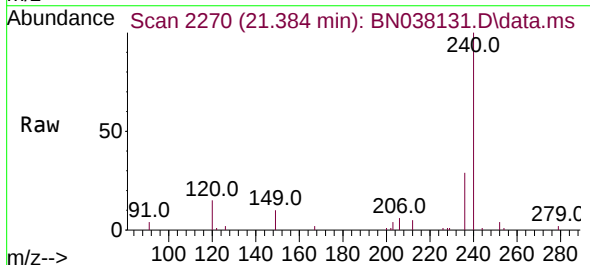
Instrument :  
BNA\_N  
ClientSampleId :  
PB170381BL

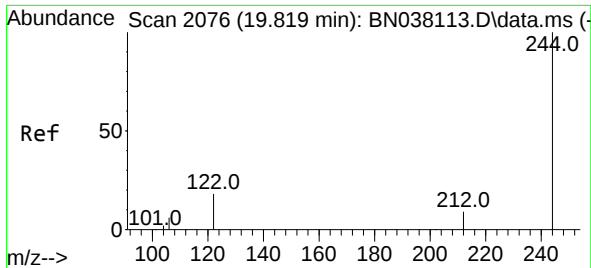
Tgt Ion:212 Resp: 19315  
Ion Ratio Lower Upper  
212 100  
106 16.1 12.6 19.0  
104 9.3 7.1 10.7



#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.384 min Scan# 2270  
Delta R.T. 0.009 min  
Lab File: BN038131.D  
Acq: 04 Nov 2025 11:43

Tgt Ion:240 Resp: 15202  
Ion Ratio Lower Upper  
240 100  
120 14.8 10.7 16.1  
236 29.1 23.1 34.7

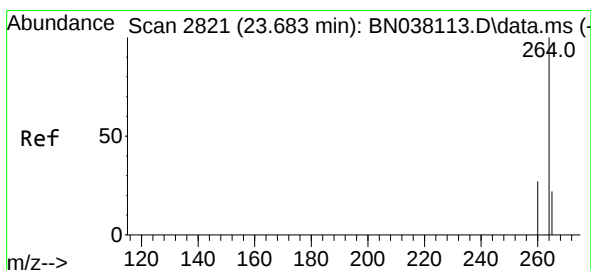
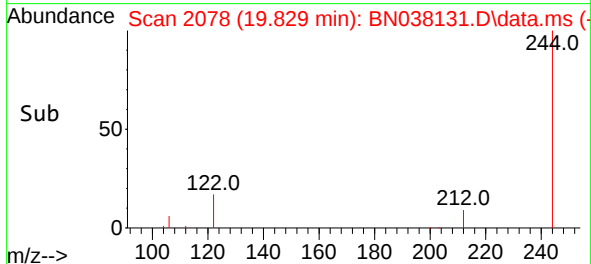
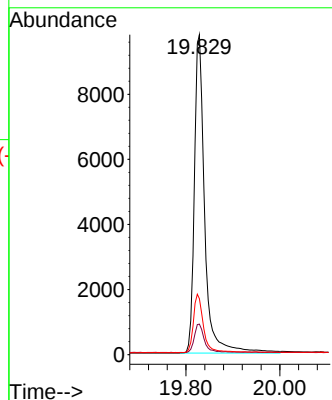
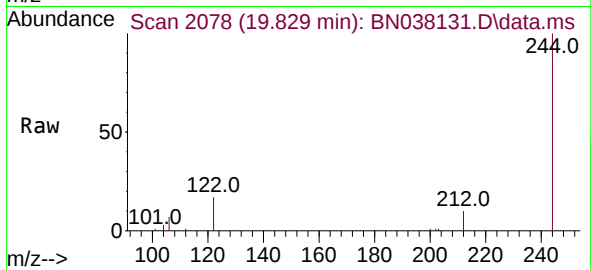




#31  
 Terphenyl-d14  
 Concen: 0.455 ng  
 RT: 19.829 min Scan# 2076  
 Delta R.T. 0.009 min  
 Lab File: BN038131.D  
 Acq: 04 Nov 2025 11:43

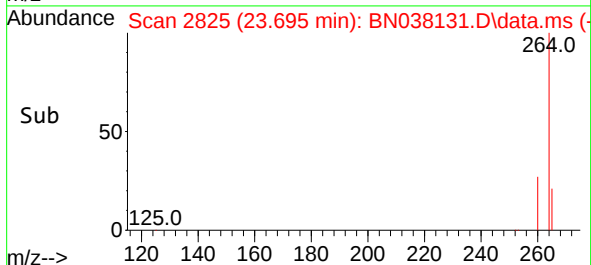
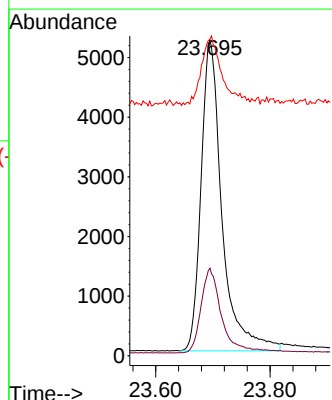
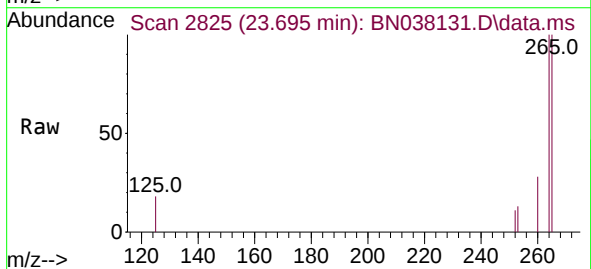
Instrument :  
 BNA\_N  
 ClientSampleId :  
 PB170381BL

Tgt Ion:244 Resp: 15022  
 Ion Ratio Lower Upper  
 244 100  
 212 9.5 7.8 11.6  
 122 17.5 15.2 22.8



#35  
 Perylene-d12  
 Concen: 0.400 ng  
 RT: 23.695 min Scan# 2825  
 Delta R.T. 0.015 min  
 Lab File: BN038131.D  
 Acq: 04 Nov 2025 11:43

Tgt Ion:264 Resp: 13241  
 Ion Ratio Lower Upper  
 264 100  
 260 27.8 21.8 32.8  
 265 100.3 68.6 102.8



## Report of Analysis

|                    |                               |                     |                 |                |
|--------------------|-------------------------------|---------------------|-----------------|----------------|
| Client:            | Tetra Tech NUS, Inc.          |                     | Date Collected: |                |
| Project:           | NWIRP Bethpage 112G08005-WE13 |                     | Date Received:  |                |
| Client Sample ID:  | PB170381BS                    |                     | SDG No.:        | Q3526          |
| Lab Sample ID:     | PB170381BS                    |                     | Matrix:         | Water          |
| Analytical Method: | SW8270ESIM                    | Level: LOW          | % Solid:        | 0              |
| Sample Wt/Vol:     | 1000 mL                       | Final Vol: 1000 uL  | Test:           | SVOC-SIMGroup1 |
| Prep Method :      | 3510C                         | Prep Date: 11/03/25 |                 |                |

| CAS Number                | Parameter               | Conc.             | Qua. | DF | MDL      | LOD  | LOQ / CRQL | Units    | Date Ana.      | Prep BatchID |
|---------------------------|-------------------------|-------------------|------|----|----------|------|------------|----------|----------------|--------------|
| <b>TARGETS</b>            |                         |                   |      |    |          |      |            |          |                |              |
| 123-91-1                  | 1,4-Dioxane             | 0.33              |      | 1  | 0.070    | 0.20 | 0.20       | ug/L     | 11/04/25 12:19 | PB170381     |
| <b>SURROGATES</b>         |                         |                   |      |    |          |      |            |          |                |              |
| 7297-45-2                 | 2-Methylnaphthalene-d10 | 0.35              |      |    | 30 - 150 |      | 88%        | SPK: 0.4 |                |              |
| 93951-69-0                | Fluoranthene-d10        | 0.30              |      |    | 30 - 150 |      | 76%        | SPK: 0.4 |                |              |
| 4165-60-0                 | Nitrobenzene-d5         | 0.37              |      |    | 55 - 111 |      | 92%        | SPK: 0.4 |                |              |
| 321-60-8                  | 2-Fluorobiphenyl        | 0.42              |      |    | 53 - 106 |      | 104%       | SPK: 0.4 |                |              |
| 1718-51-0                 | Terphenyl-d14           | 0.48              |      |    | 58 - 132 |      | 121%       | SPK: 0.4 |                |              |
| <b>INTERNAL STANDARDS</b> |                         |                   |      |    |          |      |            |          |                |              |
|                           |                         | <b>Area Count</b> |      |    |          |      |            |          |                |              |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4  | 11500             |      |    |          |      |            |          |                |              |
| 1146-65-2                 | Naphthalene-d8          | 31800             |      |    |          |      |            |          |                |              |
| 15067-26-2                | Acenaphthene-d10        | 16200             |      |    |          |      |            |          |                |              |
| 1517-22-2                 | Phenanthrene-d10        | 30400             |      |    |          |      |            |          |                |              |
| 1719-03-5                 | Chrysene-d12            | 16500             |      |    |          |      |            |          |                |              |
| 1520-96-3                 | Perylene-d12            | 13200             |      |    |          |      |            |          |                |              |

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\BN110425\  
 Data File : BN038132.D  
 Acq On : 04 Nov 2025 12:19  
 Operator : RC/JU  
 Sample : PB170381BS  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 PB170381BS

Quant Time: Nov 04 12:44:04 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN102825.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Oct 29 13:09:46 2025  
 Response via : Initial Calibration

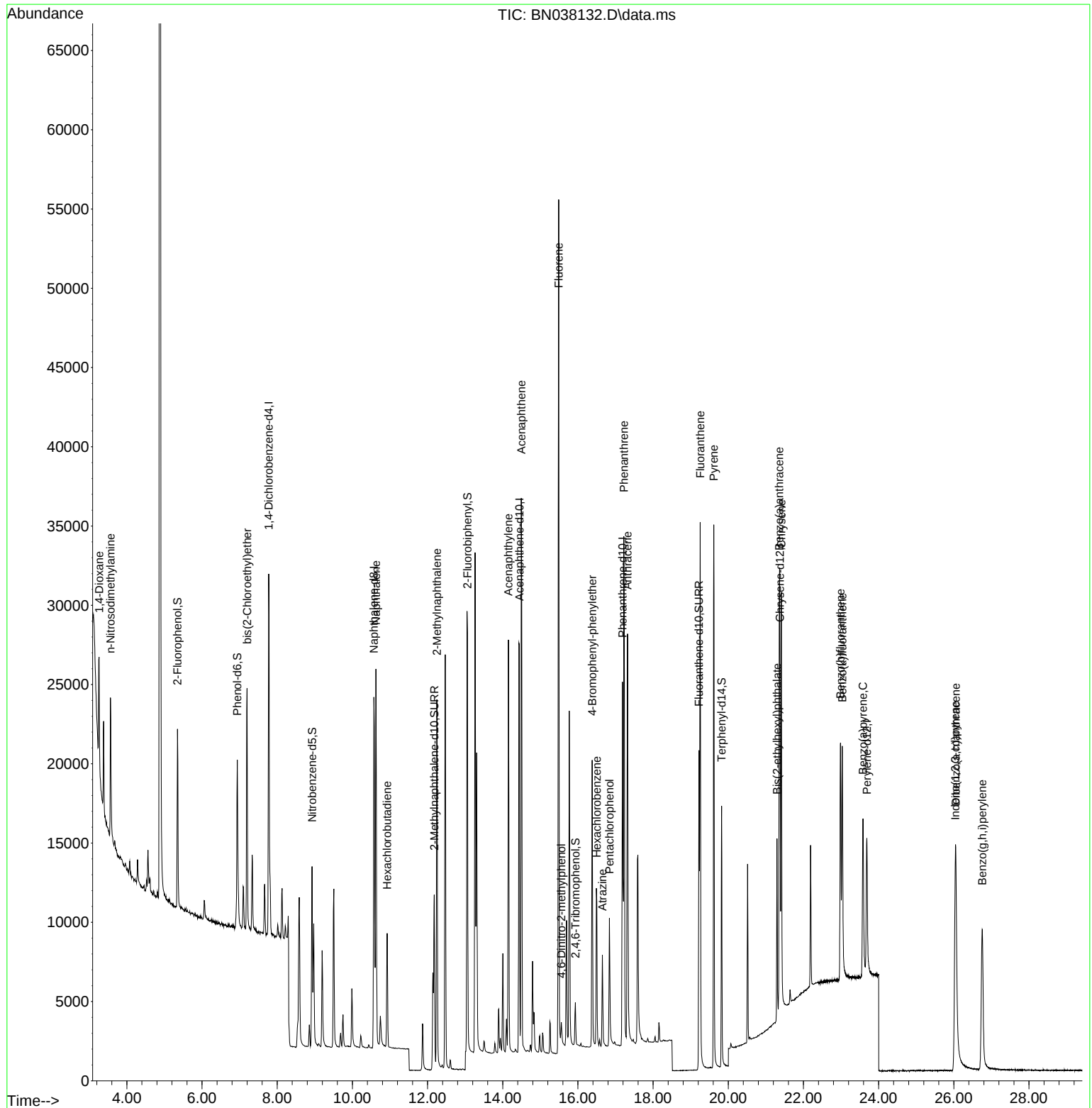
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.775  | 152  | 11523    | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.573 | 136  | 31801    | 0.400 | ng    | # 0.00   |
| 13) Acenaphthene-d10          | 14.441 | 164  | 16154    | 0.400 | ng    | 0.01     |
| 19) Phenanthrene-d10          | 17.186 | 188  | 30417    | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 21.375 | 240  | 16510    | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.686 | 264  | 13194    | 0.400 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.348  | 112  | 9248     | 0.341 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.937  | 99   | 10615    | 0.321 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.929  | 82   | 9450     | 0.368 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 12.177 | 152  | 15982    | 0.352 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.932 | 330  | 1687     | 0.253 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 13.062 | 172  | 26882    | 0.415 | ng    | 0.01     |
| 27) Fluoranthene-d10          | 19.220 | 212  | 23204    | 0.303 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.824 | 244  | 17337    | 0.483 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| Target Compounds              |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.261  | 88   | 3965     | 0.333 | ng    | # 62     |
| 3) n-Nitrosodimethylamine     | 3.564  | 42   | 5606     | 0.366 | ng    | # 94     |
| 6) bis(2-Chloroethyl)ether    | 7.197  | 93   | 11700    | 0.360 | ng    | 99       |
| 9) Naphthalene                | 10.626 | 128  | 31176    | 0.356 | ng    | 100      |
| 10) Hexachlorobutadiene       | 10.925 | 225  | 5678     | 0.384 | ng    | # 99     |
| 12) 2-Methylnaphthalene       | 12.248 | 142  | 17976    | 0.308 | ng    | 99       |
| 16) Acenaphthylene            | 14.152 | 152  | 28630    | 0.391 | ng    | 99       |
| 17) Acenaphthene              | 14.494 | 154  | 17838    | 0.349 | ng    | 98       |
| 18) Fluorene                  | 15.489 | 166  | 24190    | 0.361 | ng    | 99       |
| 20) 4,6-Dinitro-2-methylph... | 15.560 | 198  | 1040     | 0.363 | ng    | 95       |
| 21) 4-Bromophenyl-phenylether | 16.379 | 248  | 7282     | 0.365 | ng    | 97       |
| 22) Hexachlorobenzene         | 16.503 | 284  | 8817     | 0.389 | ng    | 99       |
| 23) Atrazine                  | 16.652 | 200  | 4704     | 0.322 | ng    | 99       |
| 24) Pentachlorophenol         | 16.838 | 266  | 4384     | 0.449 | ng    | 99       |
| 25) Phenanthrene              | 17.223 | 178  | 35147    | 0.364 | ng    | 100      |
| 26) Anthracene                | 17.322 | 178  | 30413    | 0.360 | ng    | 99       |
| 28) Fluoranthene              | 19.252 | 202  | 32822    | 0.304 | ng    | 100      |
| 30) Pyrene                    | 19.615 | 202  | 31678    | 0.425 | ng    | 100      |
| 32) Benzo(a)anthracene        | 21.357 | 228  | 20604    | 0.350 | ng    | 99       |
| 33) Chrysene                  | 21.411 | 228  | 24309    | 0.380 | ng    | 100      |
| 34) Bis(2-ethylhexyl)phtha... | 21.295 | 149  | 8897     | 0.287 | ng    | 98       |
| 36) Indeno(1,2,3-cd)pyrene    | 26.036 | 276  | 23949    | 0.442 | ng    | 98       |
| 37) Benzo(b)fluoranthene      | 22.987 | 252  | 20712    | 0.367 | ng    | 98       |
| 38) Benzo(k)fluoranthene      | 23.031 | 252  | 21547    | 0.379 | ng    | 98       |
| 39) Benzo(a)pyrene            | 23.584 | 252  | 17494    | 0.387 | ng    | 98       |
| 40) Dibenzo(a,h)anthracene    | 26.054 | 278  | 17865    | 0.428 | ng    | 99       |
| 41) Benzo(g,h,i)perylene      | 26.756 | 276  | 21276    | 0.447 | ng    | 98       |
| -----                         |        |      |          |       |       |          |

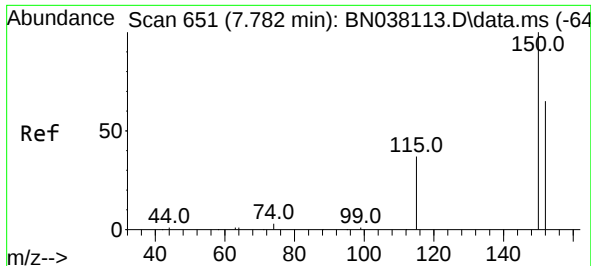
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Acq On : 04 Nov 2025 12:19  
Operator : RC/JU  
Sample : PB170381BS  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
PB170381BS

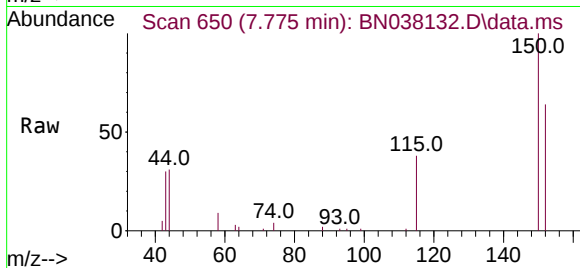
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Oct 29 13:09:46 2025  
Response via : Initial Calibration



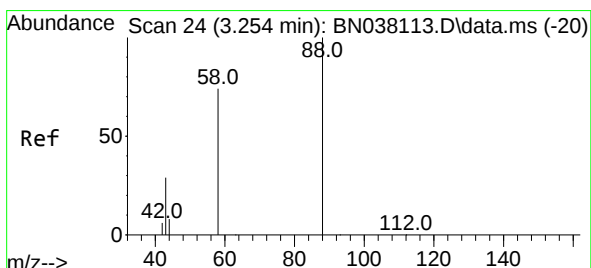
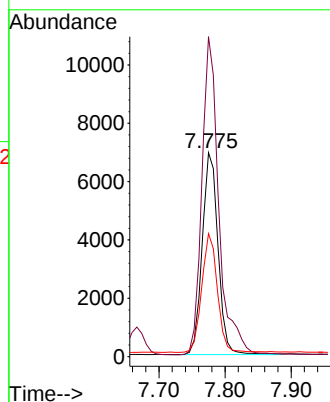
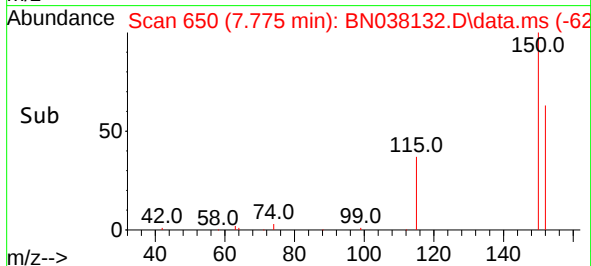


#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.775 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: BN038132.D  
Acq: 04 Nov 2025 12:19

Instrument :  
BNA\_N  
ClientSampleId :  
PB170381BS

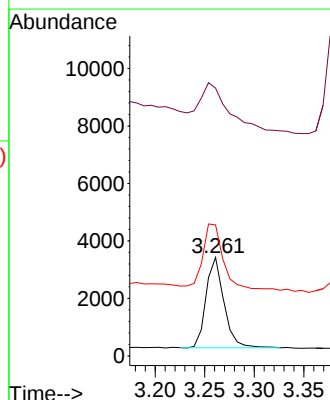
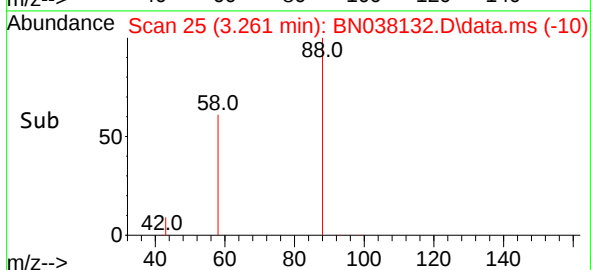
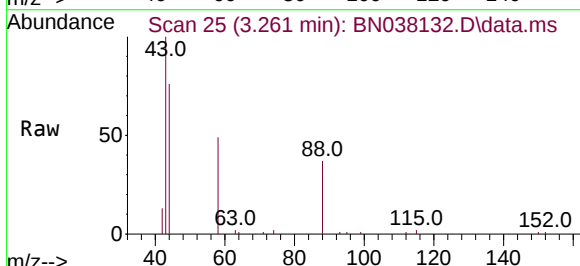


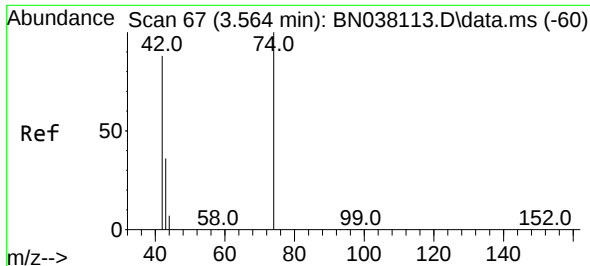
Tgt Ion:152 Resp: 11523  
Ion Ratio Lower Upper  
152 100  
150 156.9 122.3 183.5  
115 60.3 47.4 71.0



#2  
1,4-Dioxane  
Concen: 0.333 ng  
RT: 3.261 min Scan# 25  
Delta R.T. 0.007 min  
Lab File: BN038132.D  
Acq: 04 Nov 2025 12:19

Tgt Ion: 88 Resp: 3965  
Ion Ratio Lower Upper  
88 100  
43 84.7 24.3 36.5#  
58 86.6 60.4 90.6

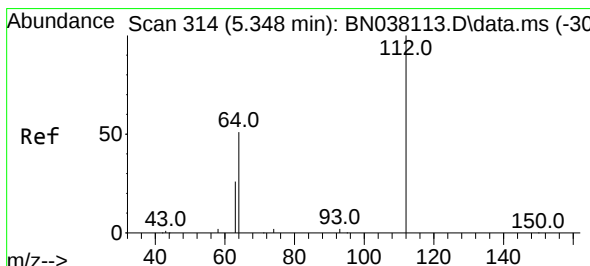
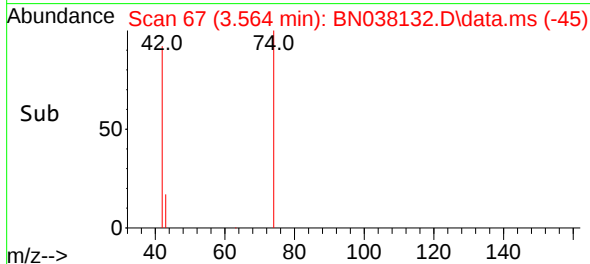
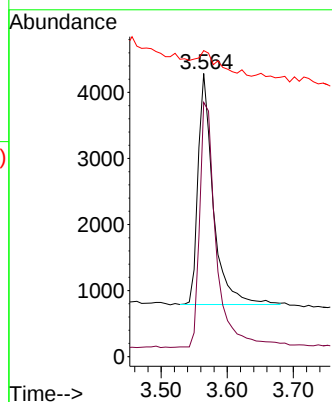
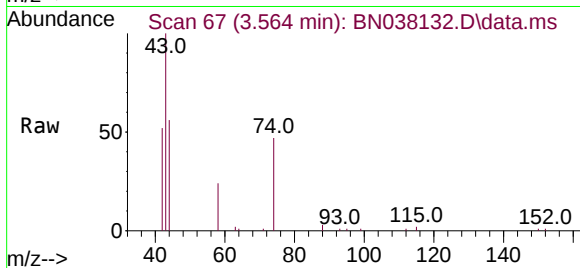




#3  
n-Nitrosodimethylamine  
Concen: 0.366 ng  
RT: 3.564 min Scan# 61  
Delta R.T. 0.007 min  
Lab File: BN038132.D  
Acq: 04 Nov 2025 12:19

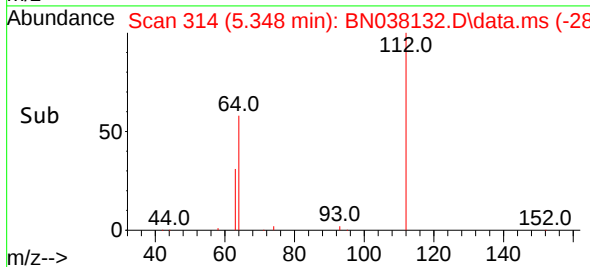
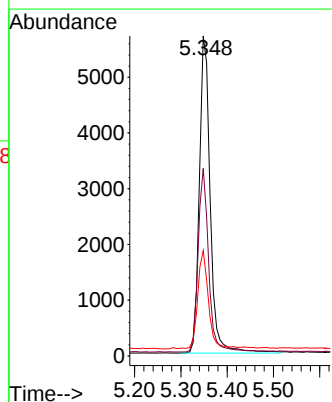
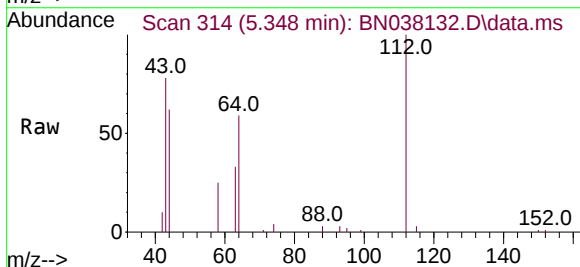
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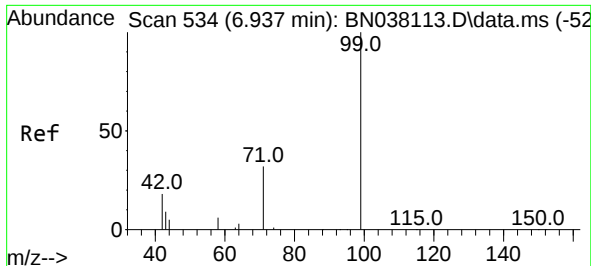
Tgt Ion: 42 Resp: 5606  
Ion Ratio Lower Upper  
42 100  
74 115.6 96.8 145.2  
44 14.6 5.3 7.9#



#4  
2-Fluorophenol  
Concen: 0.341 ng  
RT: 5.348 min Scan# 314  
Delta R.T. -0.000 min  
Lab File: BN038132.D  
Acq: 04 Nov 2025 12:19

Tgt Ion: 112 Resp: 9248  
Ion Ratio Lower Upper  
112 100  
64 56.5 45.4 68.0  
63 30.1 23.2 34.8

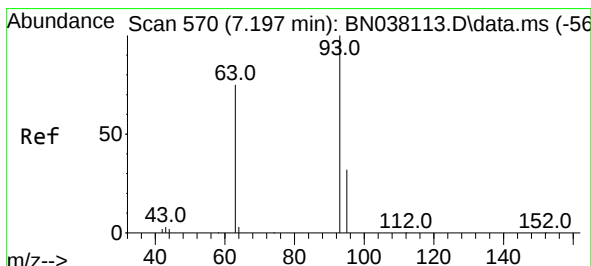
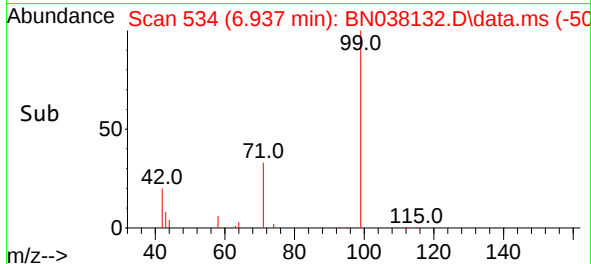
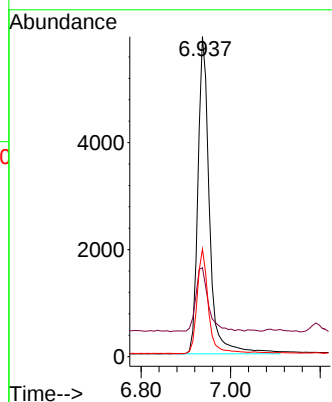
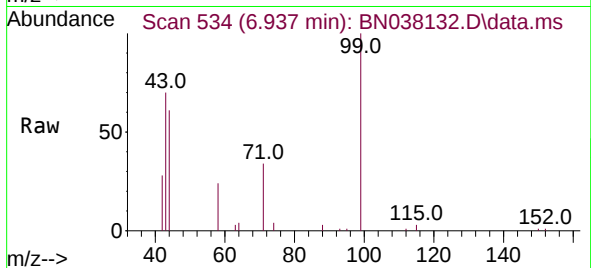




#5  
Phenol-d6  
Concen: 0.321 ng  
RT: 6.937 min Scan# 534  
Delta R.T. -0.000 min  
Lab File: BN038132.D  
Acq: 04 Nov 2025 12:19

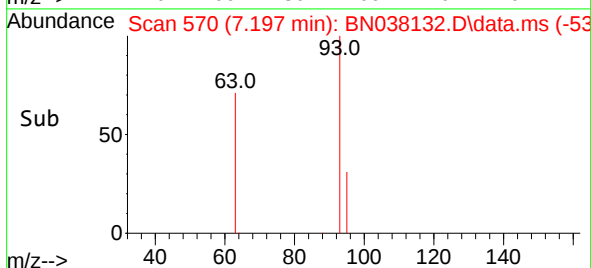
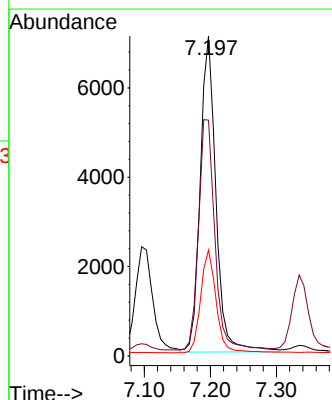
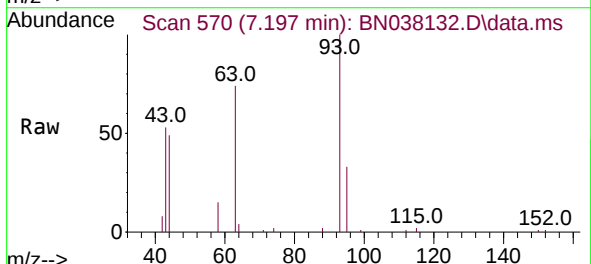
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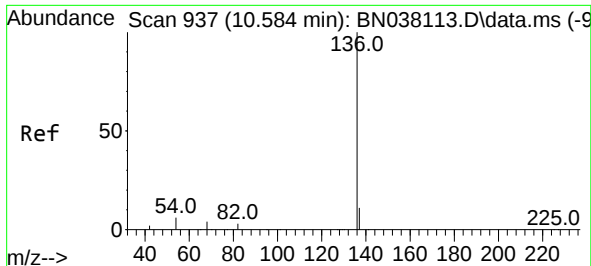
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 99    | Resp: | 10615 |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 21.8  | 16.6  | 24.8  |
| 71       | 31.9  | 25.4  | 38.2  |



#6  
bis(2-Chloroethyl)ether  
Concen: 0.360 ng  
RT: 7.197 min Scan# 570  
Delta R.T. -0.000 min  
Lab File: BN038132.D  
Acq: 04 Nov 2025 12:19

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 93    | Resp: | 11700 |
| Ion      | Ratio | Lower | Upper |
| 93       | 100   |       |       |
| 63       | 75.6  | 59.3  | 88.9  |
| 95       | 31.9  | 25.2  | 37.8  |

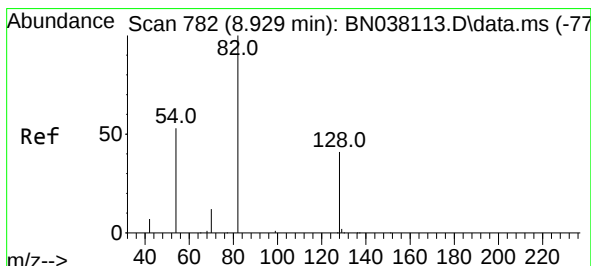
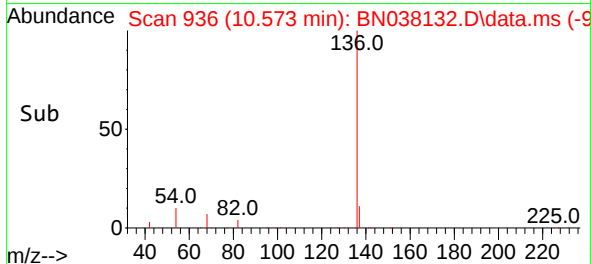
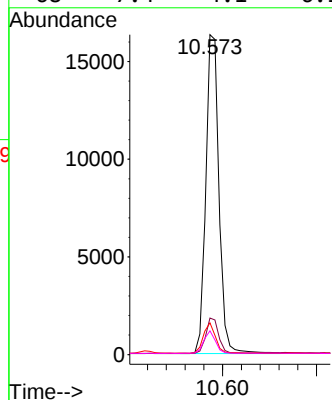
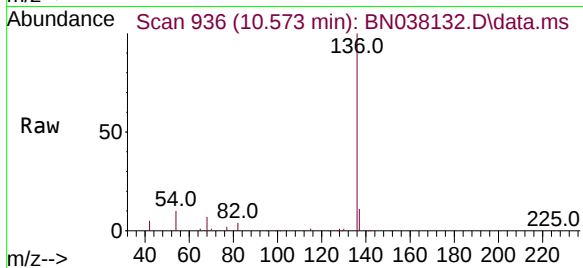




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.573 min Scan# 937  
Delta R.T. -0.000 min  
Lab File: BN038132.D  
Acq: 04 Nov 2025 12:19

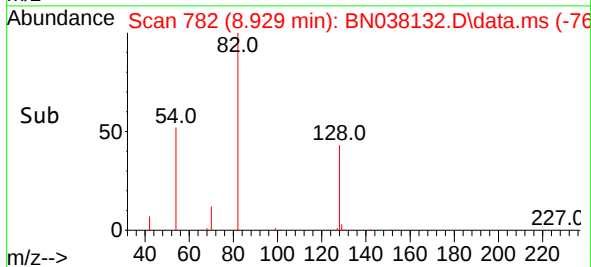
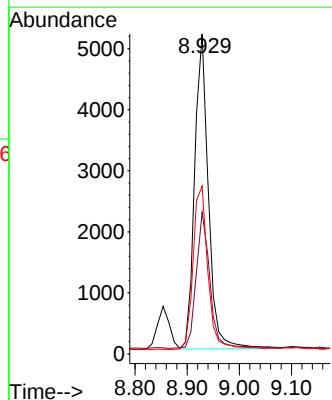
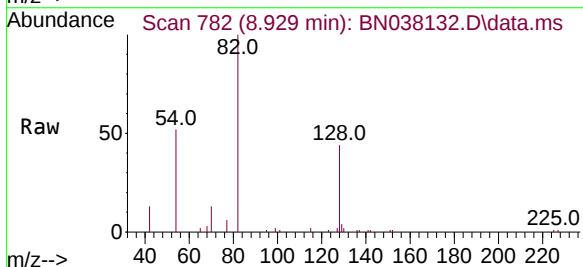
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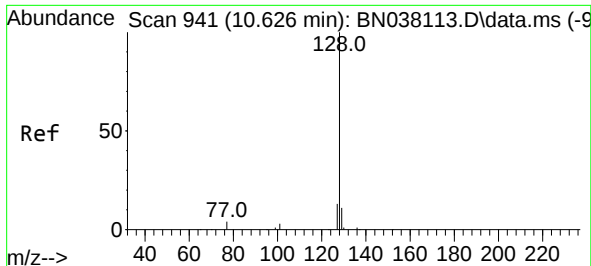
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 136   | Resp: | 31801 |
| Ion Ratio | Lower | Upper |       |
| 136       | 100   |       |       |
| 137       | 11.4  | 9.0   | 13.4  |
| 54        | 9.9   | 5.2   | 7.8#  |
| 68        | 7.4   | 4.1   | 6.1#  |



#8  
Nitrobenzene-d5  
Concen: 0.368 ng  
RT: 8.929 min Scan# 782  
Delta R.T. -0.000 min  
Lab File: BN038132.D  
Acq: 04 Nov 2025 12:19

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 82    | Resp: | 9450 |
| Ion Ratio | Lower | Upper |      |
| 82        | 100   |       |      |
| 128       | 44.3  | 34.1  | 51.1 |
| 54        | 52.5  | 43.5  | 65.3 |

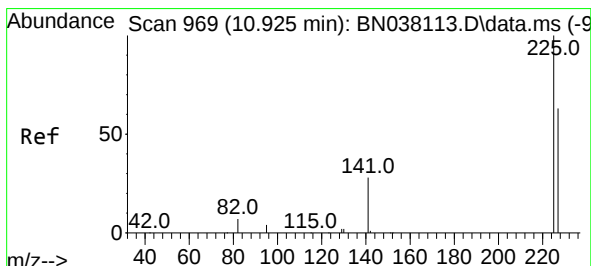
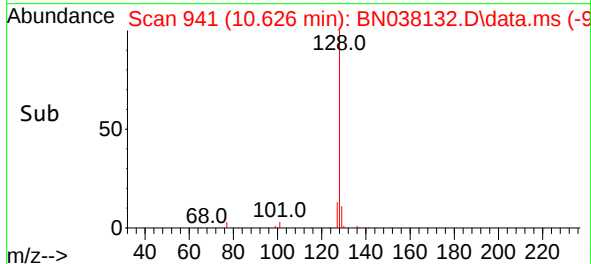
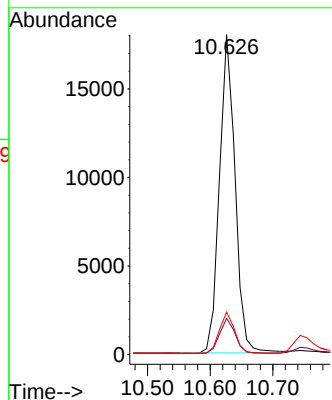
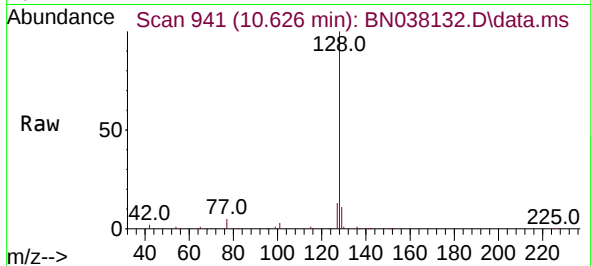




#9  
Naphthalene  
Concen: 0.356 ng  
RT: 10.626 min Scan# 941  
Delta R.T. -0.000 min  
Lab File: BN038132.D  
Acq: 04 Nov 2025 12:19

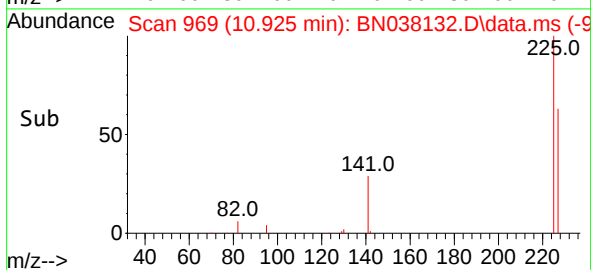
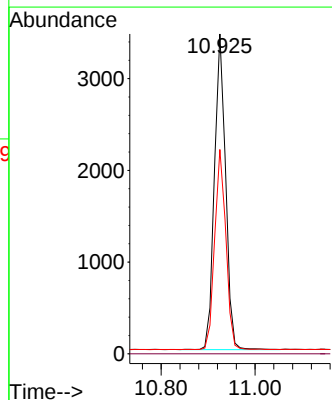
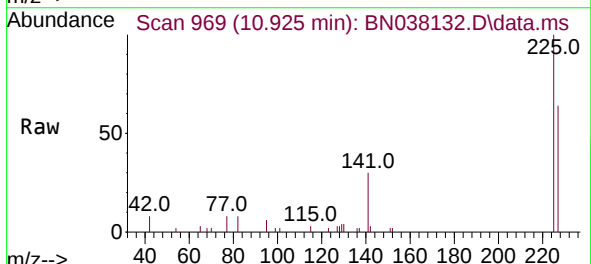
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PB170381BS

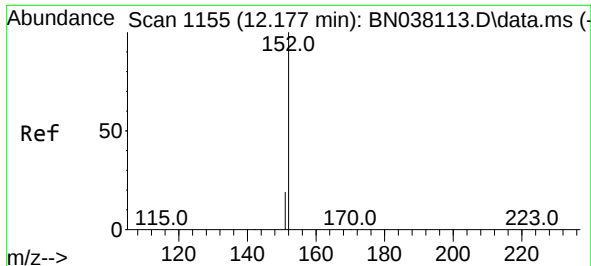
Tgt Ion:128 Resp: 31176  
Ion Ratio Lower Upper  
128 100  
129 11.3 9.1 13.7  
127 13.3 10.5 15.7



#10  
Hexachlorobutadiene  
Concen: 0.384 ng  
RT: 10.925 min Scan# 969  
Delta R.T. -0.000 min  
Lab File: BN038132.D  
Acq: 04 Nov 2025 12:19

Tgt Ion:225 Resp: 5678  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 63.5 50.3 75.5

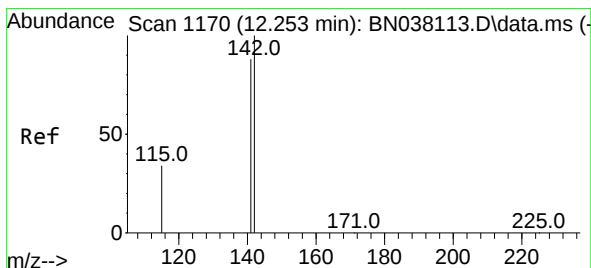
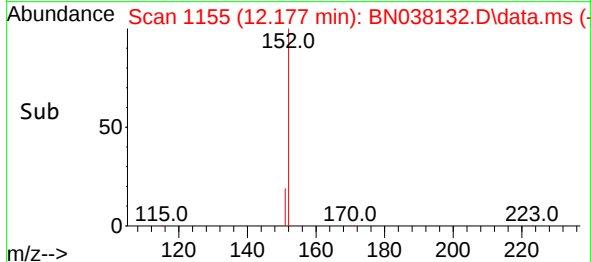
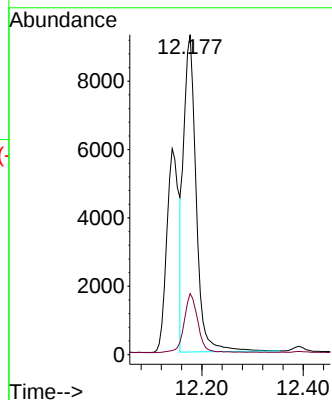
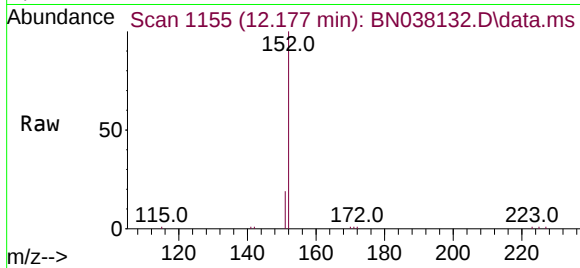




#11  
2-Methylnaphthalene-d10  
Concen: 0.352 ng  
RT: 12.177 min Scan# 1155  
Delta R.T. -0.000 min  
Lab File: BN038132.D  
Acq: 04 Nov 2025 12:19

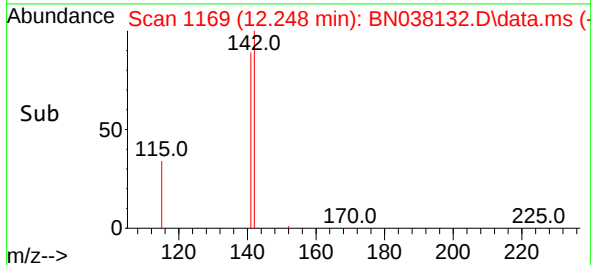
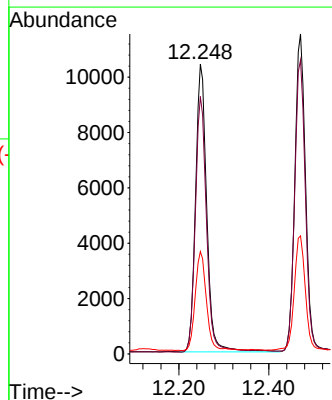
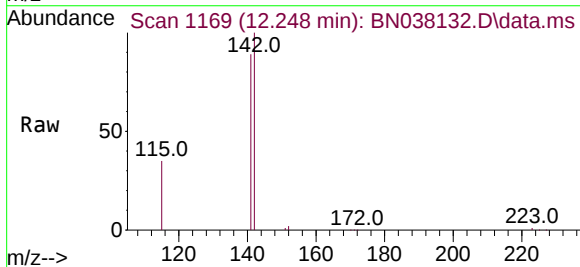
Instrument :  
BNA\_N  
ClientSampleId :  
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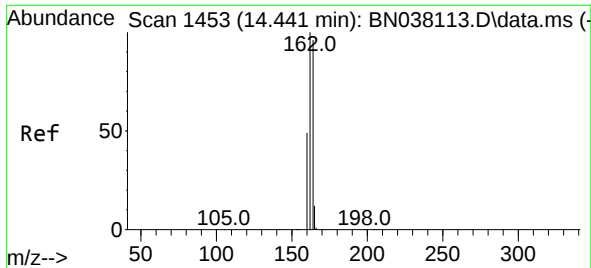
Tgt Ion:152 Resp: 15982  
Ion Ratio Lower Upper  
152 100  
151 20.6 16.8 25.2



#12  
2-Methylnaphthalene  
Concen: 0.308 ng  
RT: 12.248 min Scan# 1169  
Delta R.T. -0.000 min  
Lab File: BN038132.D  
Acq: 04 Nov 2025 12:19

Tgt Ion:142 Resp: 17976  
Ion Ratio Lower Upper  
142 100  
141 88.8 70.3 105.5  
115 35.3 27.8 41.6

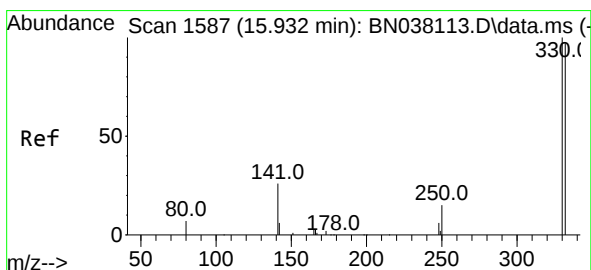
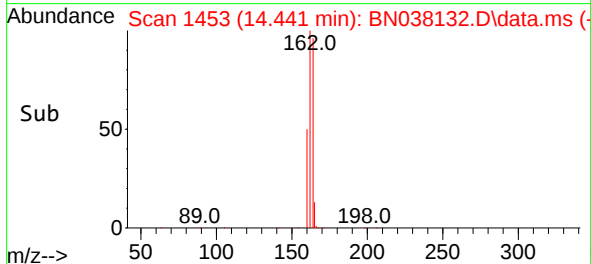
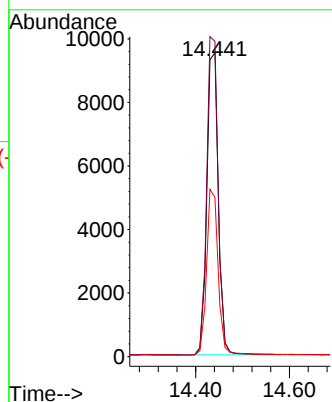
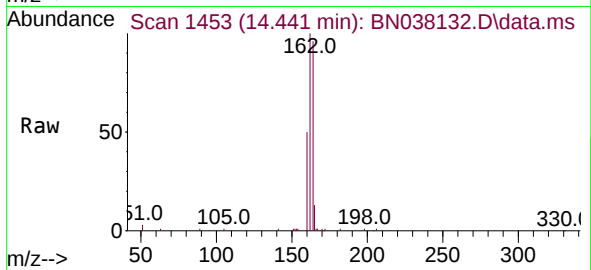




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.441 min Scan# 1453  
Delta R.T. 0.011 min  
Lab File: BN038132.D  
Acq: 04 Nov 2025 12:19

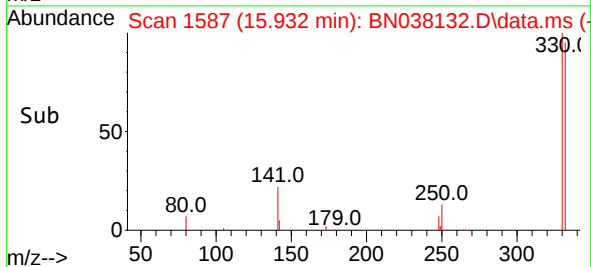
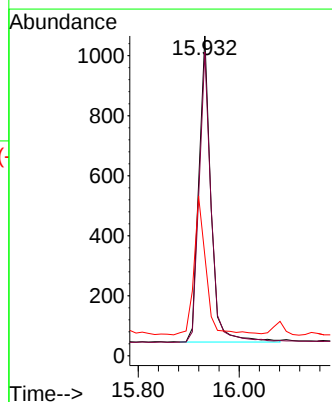
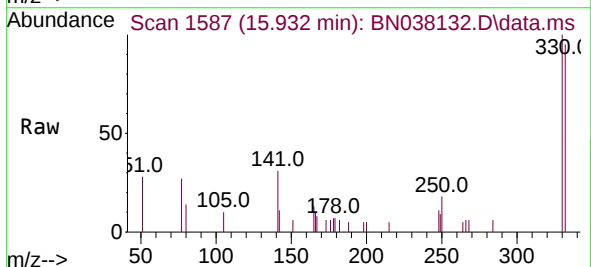
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BNA\_N  
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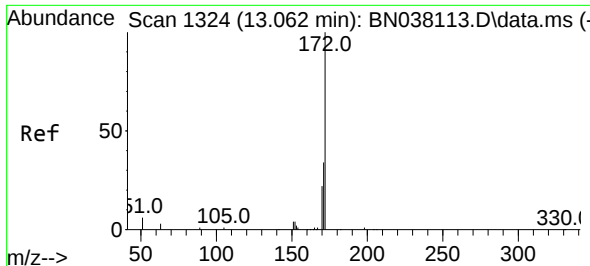
Tgt Ion:164 Resp: 16154  
Ion Ratio Lower Upper  
164 100  
162 103.7 83.0 124.4  
160 52.4 40.7 61.1



#14  
2,4,6-Tribromophenol  
Concen: 0.253 ng  
RT: 15.932 min Scan# 1587  
Delta R.T. 0.000 min  
Lab File: BN038132.D  
Acq: 04 Nov 2025 12:19

Tgt Ion:330 Resp: 1687  
Ion Ratio Lower Upper  
330 100  
332 95.7 76.6 114.8  
141 45.4 34.1 51.1

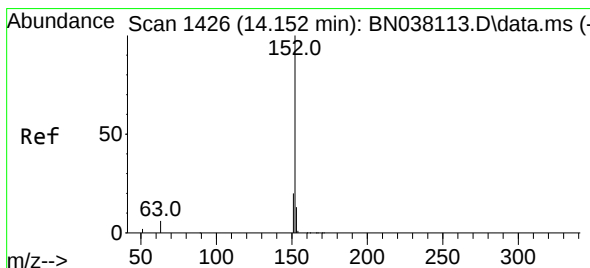
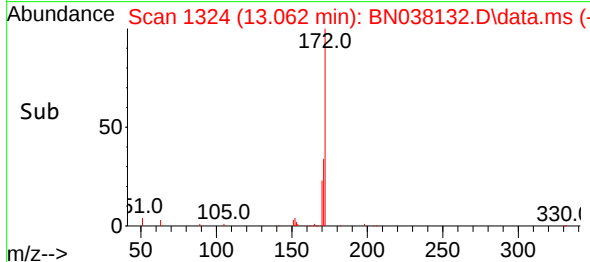
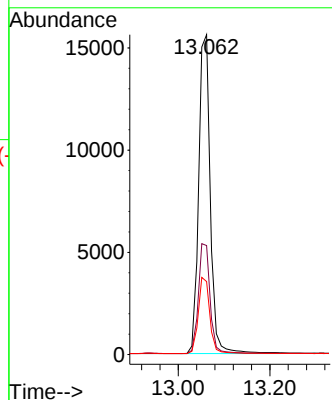
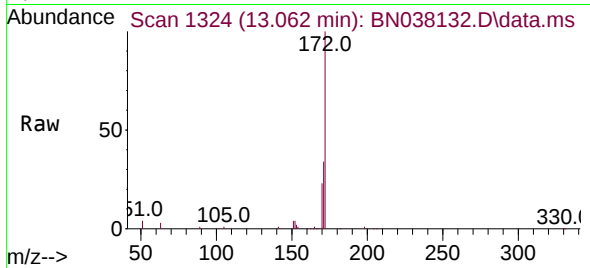




#15  
2-Fluorobiphenyl  
Concen: 0.415 ng  
RT: 13.062 min Scan# 1324  
Delta R.T. 0.011 min  
Lab File: BN038132.D  
Acq: 04 Nov 2025 12:19

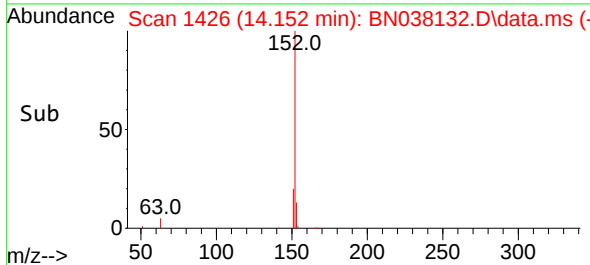
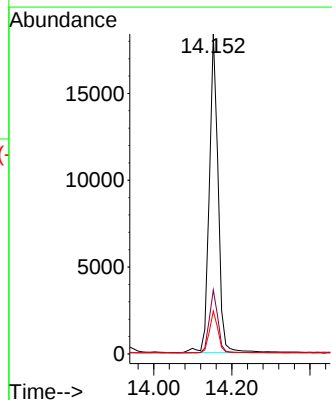
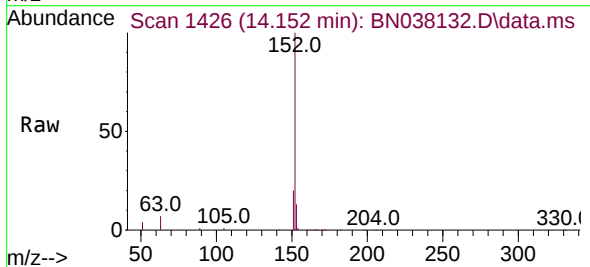
Instrument :  
BNA\_N  
ClientSampleId :  
PB170381BS

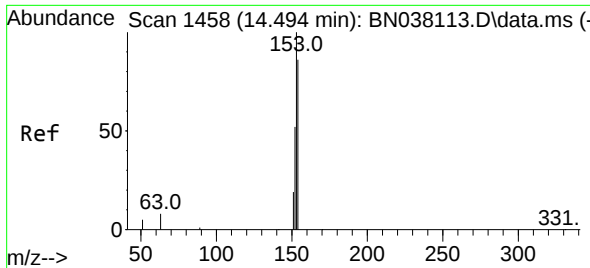
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 172   | Resp: | 26882 |
| Ion Ratio | Lower | Upper |       |
| 172       | 100   |       |       |
| 171       | 34.1  | 27.8  | 41.6  |
| 170       | 22.8  | 18.1  | 27.1  |



#16  
Acenaphthylene  
Concen: 0.391 ng  
RT: 14.152 min Scan# 1426  
Delta R.T. -0.000 min  
Lab File: BN038132.D  
Acq: 04 Nov 2025 12:19

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 152   | Resp: | 28630 |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 19.4  | 15.8  | 23.8  |
| 153       | 12.9  | 10.2  | 15.2  |

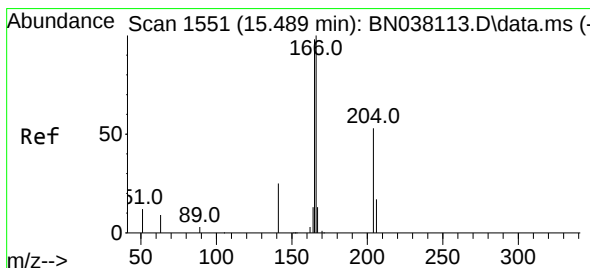
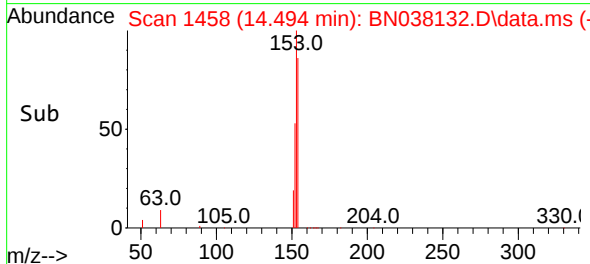
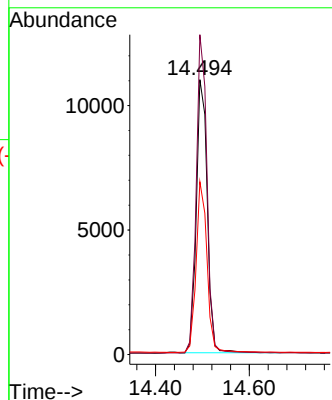
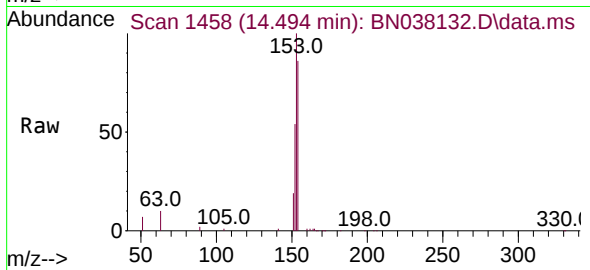




#17  
Acenaphthene  
Concen: 0.349 ng  
RT: 14.494 min Scan# 1458  
Delta R.T. -0.000 min  
Lab File: BN038132.D  
Acq: 04 Nov 2025 12:19

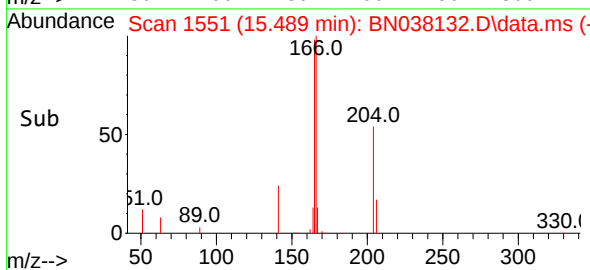
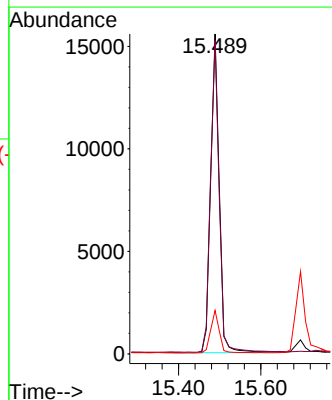
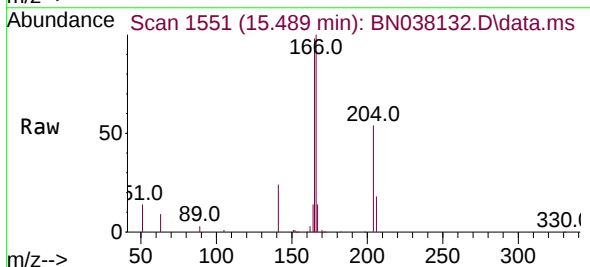
Instrument :  
BNA\_N  
ClientSampleId :  
PB170381BS

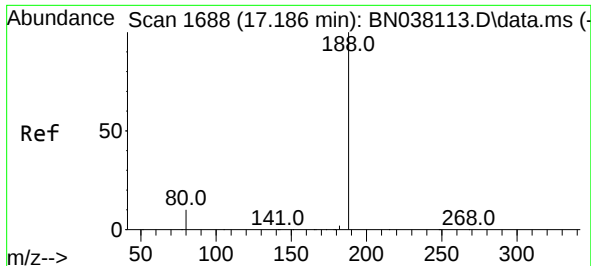
Tgt Ion:154 Resp: 17838  
Ion Ratio Lower Upper  
154 100  
153 114.1 90.0 135.0  
152 62.2 47.3 70.9



#18  
Fluorene  
Concen: 0.361 ng  
RT: 15.489 min Scan# 1551  
Delta R.T. -0.000 min  
Lab File: BN038132.D  
Acq: 04 Nov 2025 12:19

Tgt Ion:166 Resp: 24190  
Ion Ratio Lower Upper  
166 100  
165 99.4 79.0 118.4  
167 13.5 10.7 16.1

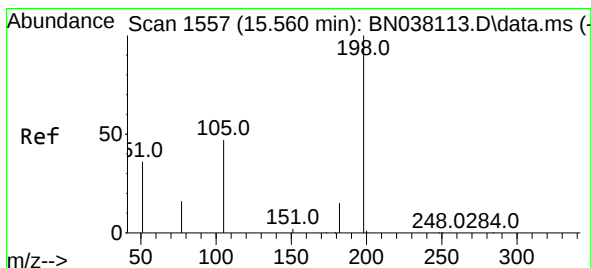
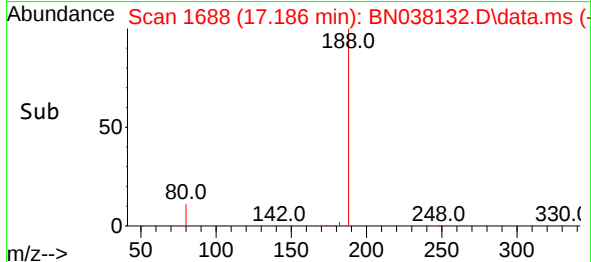
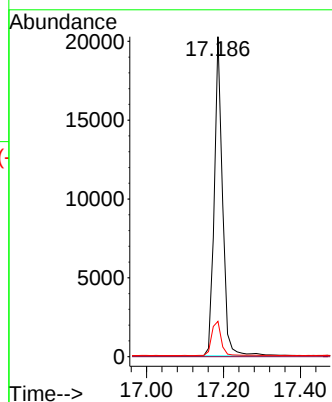
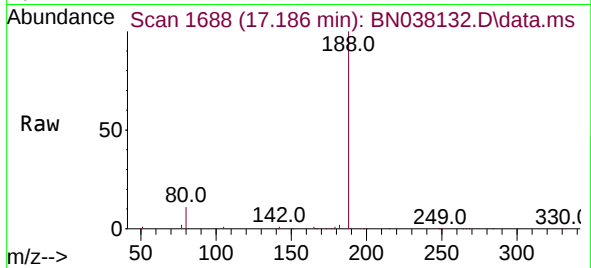




#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 17.186 min Scan# 1688  
Delta R.T. -0.000 min  
Lab File: BN038132.D  
Acq: 04 Nov 2025 12:19

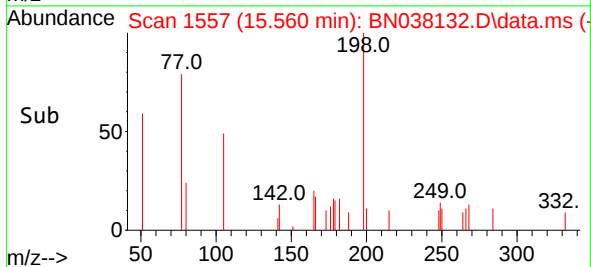
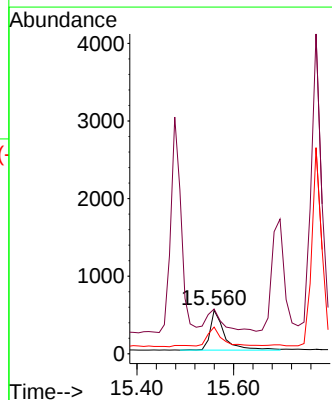
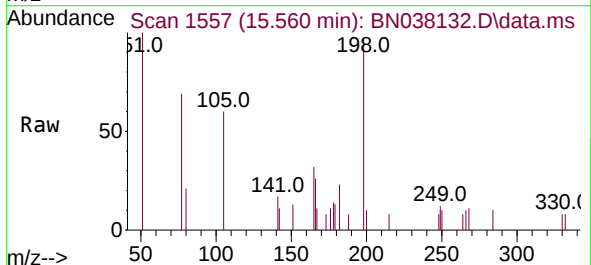
Instrument :  
BNA\_N  
ClientSampleId :  
PB170381BS

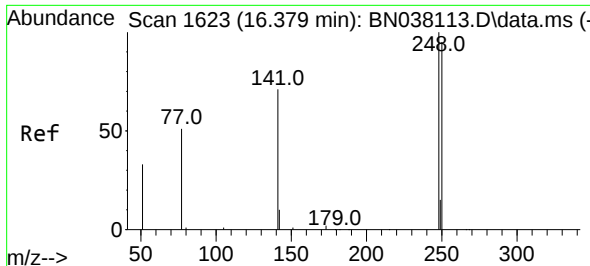
Tgt Ion:188 Resp: 30417  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 11.0 8.6 13.0



#20  
4,6-Dinitro-2-methylphenol  
Concen: 0.363 ng  
RT: 15.560 min Scan# 1557  
Delta R.T. -0.000 min  
Lab File: BN038132.D  
Acq: 04 Nov 2025 12:19

Tgt Ion:198 Resp: 1040  
Ion Ratio Lower Upper  
198 100  
51 103.2 88.9 133.3  
105 61.7 49.2 73.8





#21

4-Bromophenyl-phenylether

Concen: 0.365 ng

RT: 16.379 min Scan# 1623

Delta R.T. -0.000 min

Lab File: BN038132.D

Acq: 04 Nov 2025 12:19

Instrument :

BNA\_N

ClientSampleId :

PB170381BS

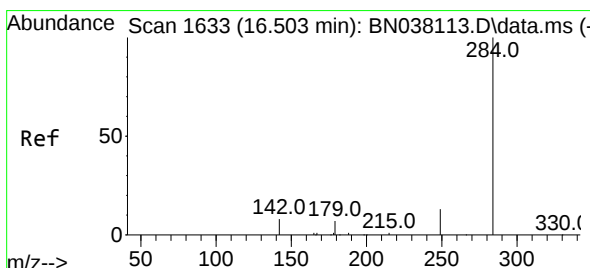
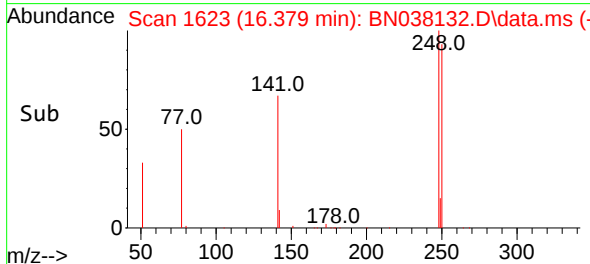
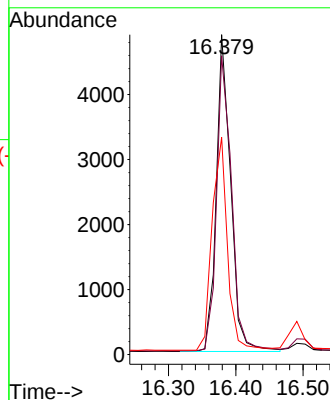
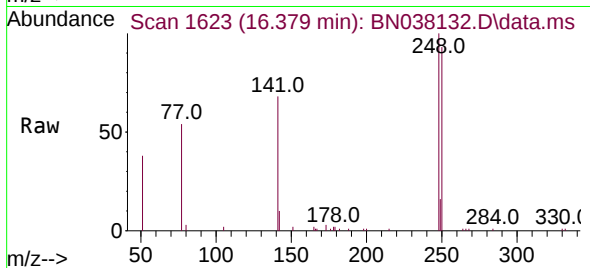
Tgt Ion:248 Resp: 7282

Ion Ratio Lower Upper

248 100

250 93.4 76.2 114.2

141 67.9 57.6 86.4



#22

Hexachlorobenzene

Concen: 0.389 ng

RT: 16.503 min Scan# 1633

Delta R.T. -0.000 min

Lab File: BN038132.D

Acq: 04 Nov 2025 12:19

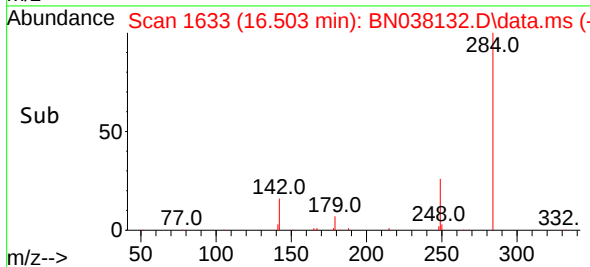
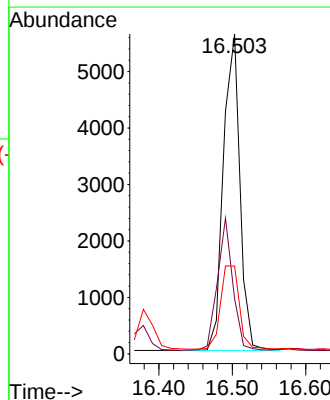
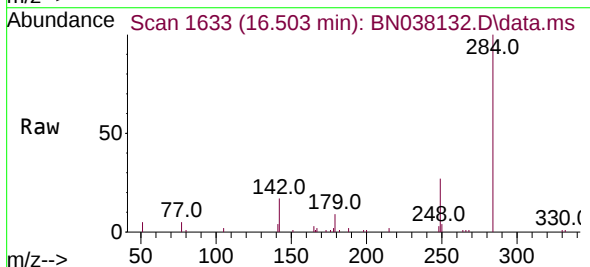
Tgt Ion:284 Resp: 8817

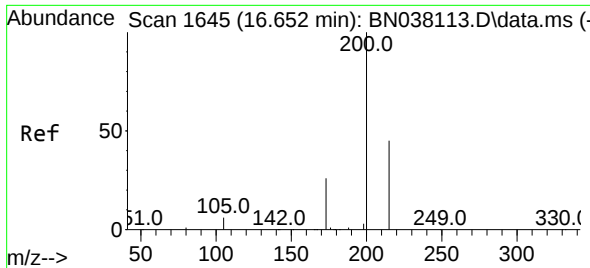
Ion Ratio Lower Upper

284 100

142 38.4 30.5 45.7

249 30.0 23.5 35.3

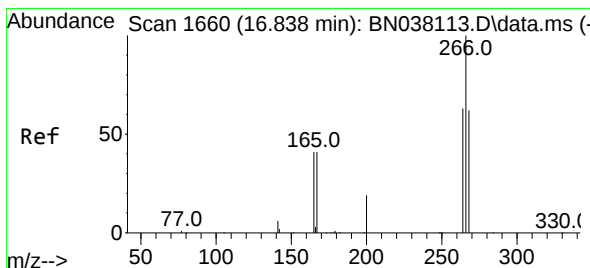
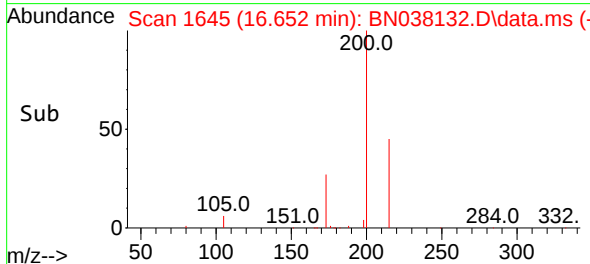
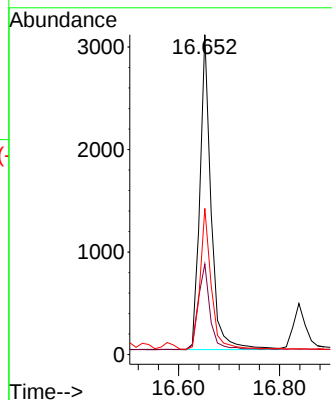
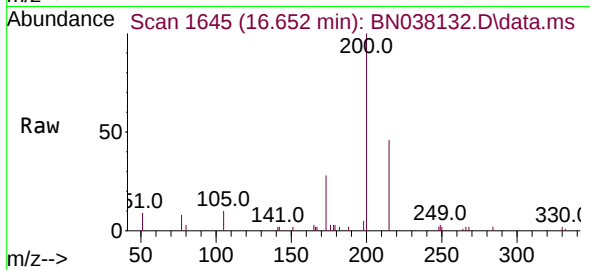




#23  
 Atrazine  
 Concen: 0.322 ng  
 RT: 16.652 min Scan# 1645  
 Delta R.T. -0.000 min  
 Lab File: BN038132.D  
 Acq: 04 Nov 2025 12:19

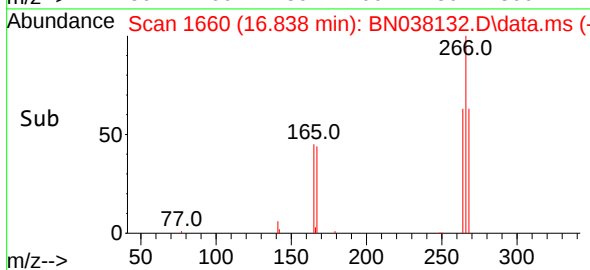
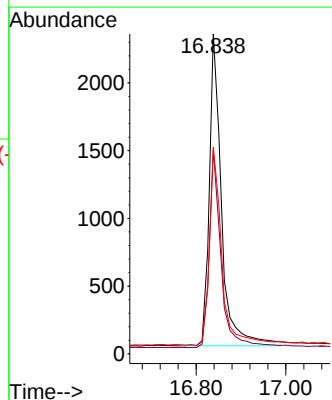
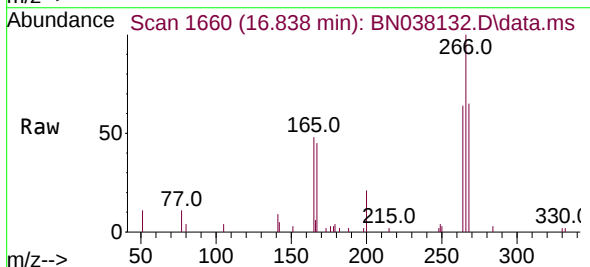
Instrument :  
 BNA\_N  
 ClientSampleId :  
 PB170381BS

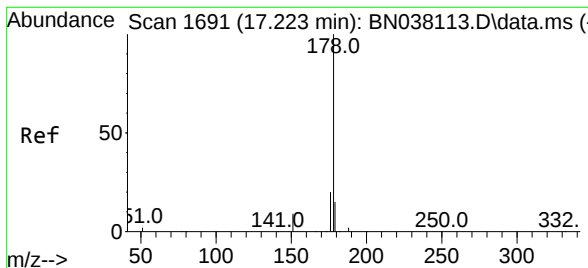
Tgt Ion:200 Resp: 4704  
 Ion Ratio Lower Upper  
 200 100  
 173 28.3 21.4 32.2  
 215 45.7 36.7 55.1



#24  
 Pentachlorophenol  
 Concen: 0.449 ng  
 RT: 16.838 min Scan# 1660  
 Delta R.T. -0.000 min  
 Lab File: BN038132.D  
 Acq: 04 Nov 2025 12:19

Tgt Ion:266 Resp: 4384  
 Ion Ratio Lower Upper  
 266 100  
 264 61.1 49.3 73.9  
 268 63.9 50.6 75.8





#25

Phenanthrene

Concen: 0.364 ng

RT: 17.223 min Scan# 1691

Delta R.T. -0.000 min

Lab File: BN038132.D

Acq: 04 Nov 2025 12:19

Instrument :

BNA\_N

ClientSampleId :

PB170381BS

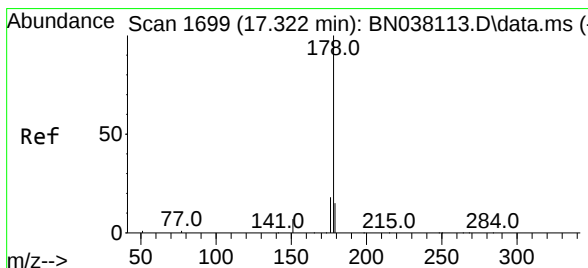
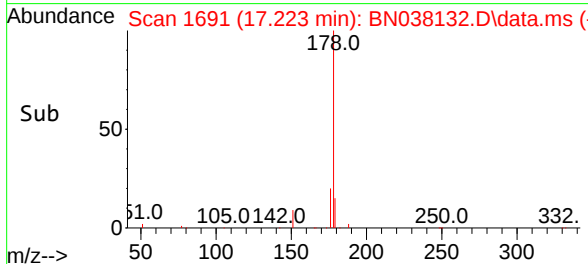
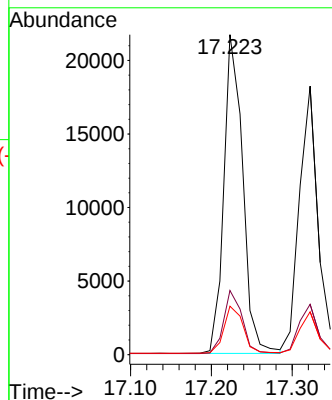
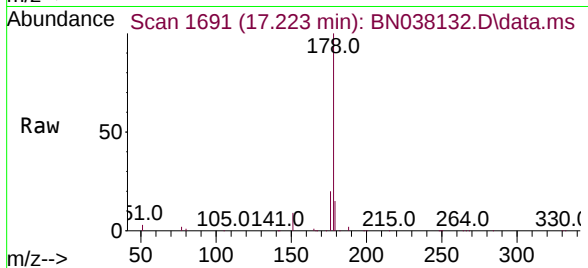
Tgt Ion:178 Resp: 35147

Ion Ratio Lower Upper

178 100

176 19.4 15.5 23.3

179 15.2 12.2 18.4



#26

Anthracene

Concen: 0.360 ng

RT: 17.322 min Scan# 1699

Delta R.T. -0.000 min

Lab File: BN038132.D

Acq: 04 Nov 2025 12:19

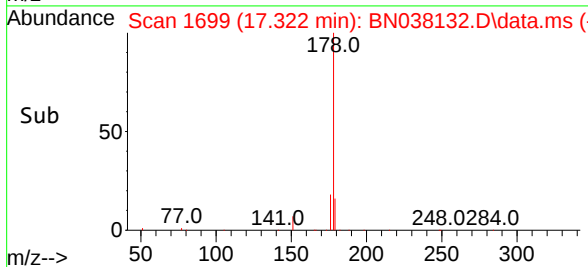
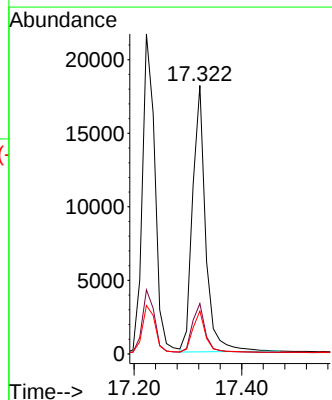
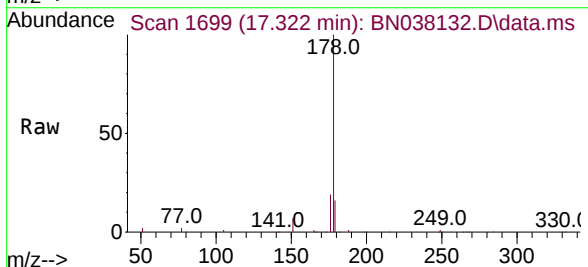
Tgt Ion:178 Resp: 30413

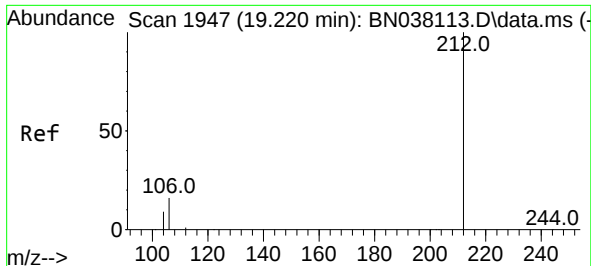
Ion Ratio Lower Upper

178 100

176 18.7 14.9 22.3

179 15.4 11.8 17.8

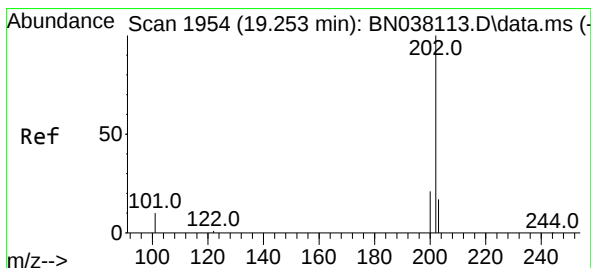
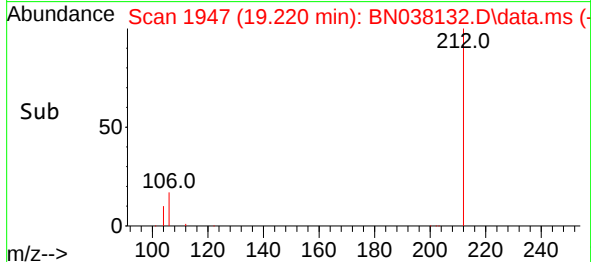
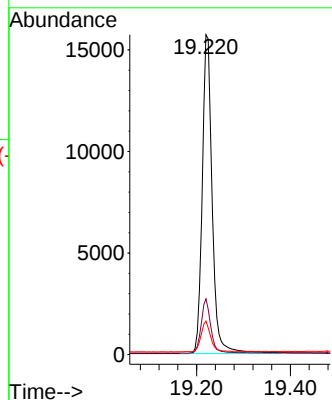
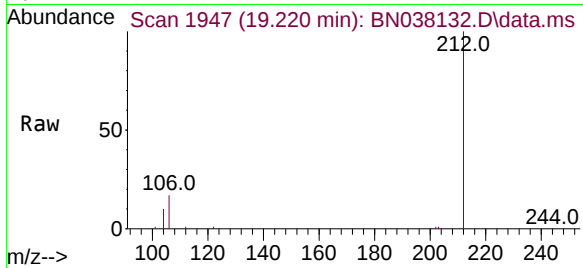




#27  
Fluoranthene-d10  
Concen: 0.303 ng  
RT: 19.220 min Scan# 1947  
Delta R.T. -0.000 min  
Lab File: BN038132.D  
Acq: 04 Nov 2025 12:19

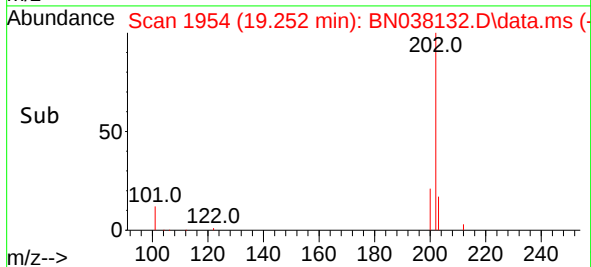
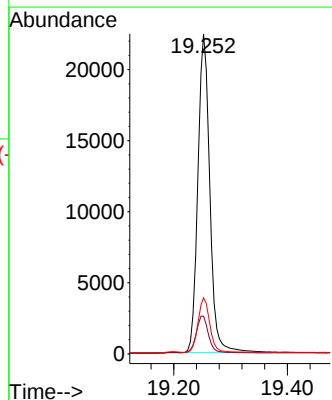
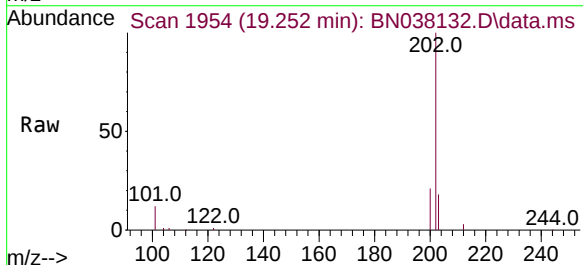
Instrument :  
BNA\_N  
ClientSampleId :  
PB170381BS

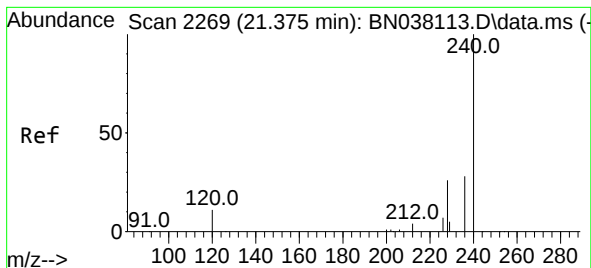
Tgt Ion:212 Resp: 23204  
Ion Ratio Lower Upper  
212 100  
106 16.4 12.6 19.0  
104 9.3 7.1 10.7



#28  
Fluoranthene  
Concen: 0.304 ng  
RT: 19.252 min Scan# 1954  
Delta R.T. -0.000 min  
Lab File: BN038132.D  
Acq: 04 Nov 2025 12:19

Tgt Ion:202 Resp: 32822  
Ion Ratio Lower Upper  
202 100  
101 12.2 9.4 14.2  
203 16.8 13.4 20.2





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.375 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN038132.D

Acq: 04 Nov 2025 12:19

Instrument :

BNA\_N

ClientSampleId :

PB170381BS

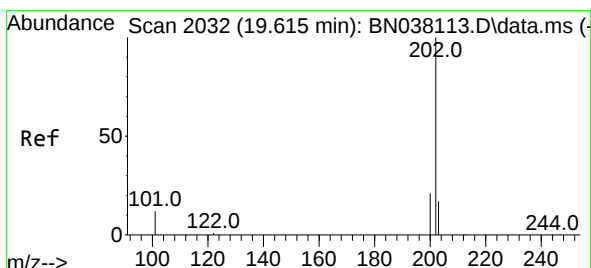
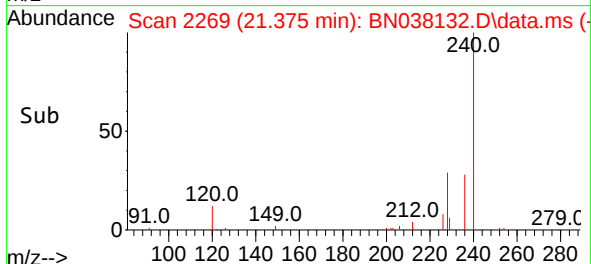
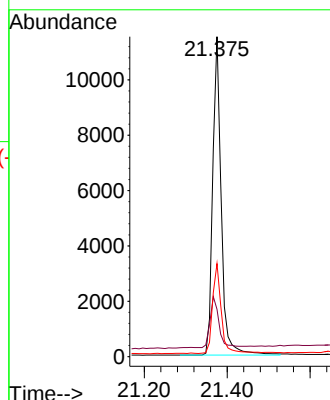
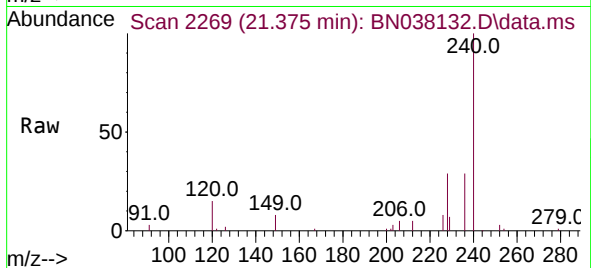
Tgt Ion:240 Resp: 16510

Ion Ratio Lower Upper

240 100

120 14.8 10.7 16.1

236 29.1 23.1 34.7



#30

Pyrene

Concen: 0.425 ng

RT: 19.615 min Scan# 2032

Delta R.T. 0.005 min

Lab File: BN038132.D

Acq: 04 Nov 2025 12:19

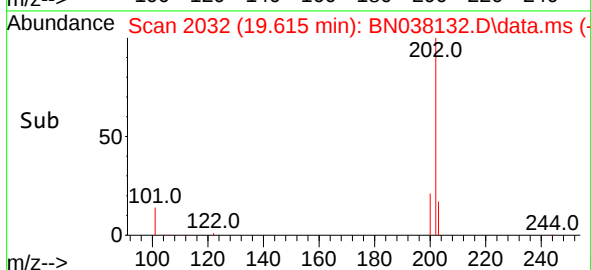
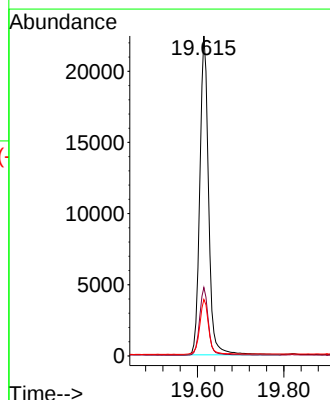
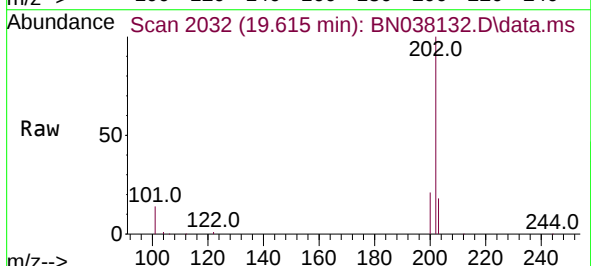
Tgt Ion:202 Resp: 31678

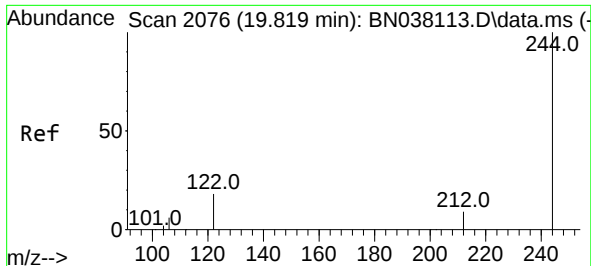
Ion Ratio Lower Upper

202 100

200 21.1 16.7 25.1

203 17.6 14.2 21.2

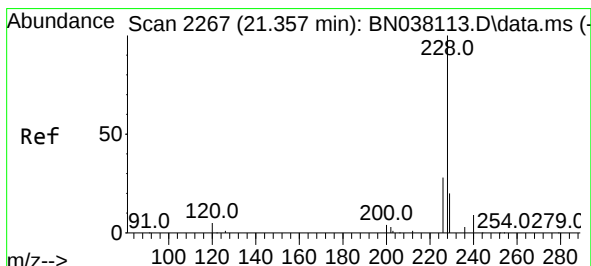
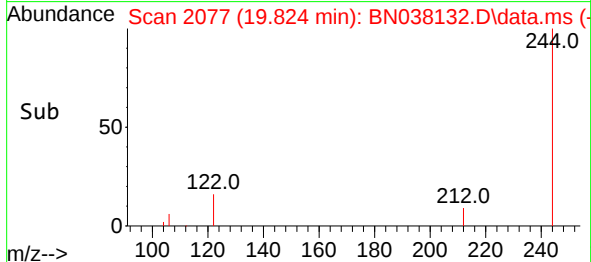
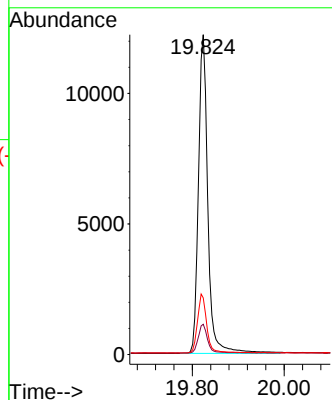
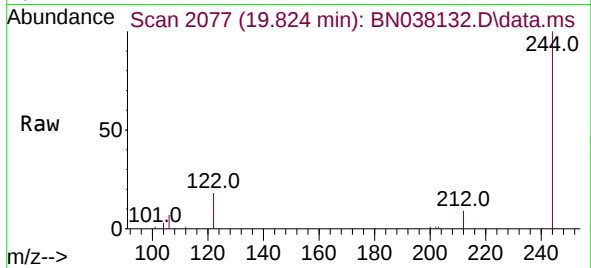




#31  
Terphenyl-d14  
Concen: 0.483 ng  
RT: 19.824 min Scan# 2076  
Delta R.T. 0.005 min  
Lab File: BN038132.D  
Acq: 04 Nov 2025 12:19

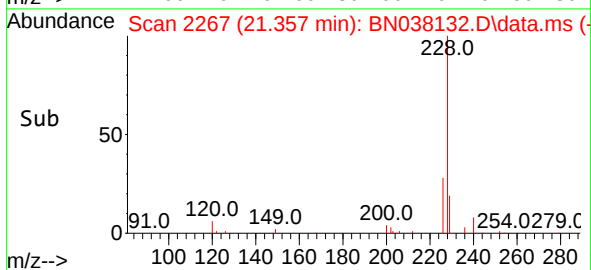
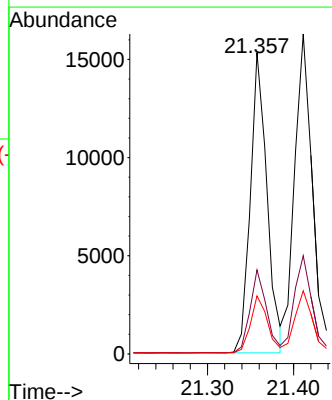
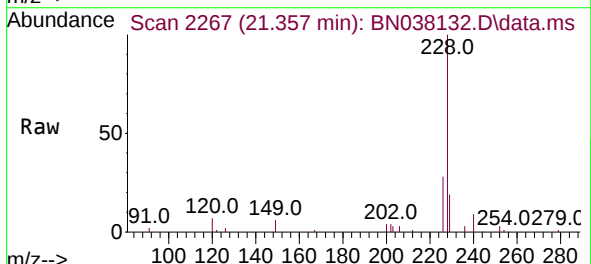
Instrument :  
BNA\_N  
ClientSampleId :  
PB170381BS

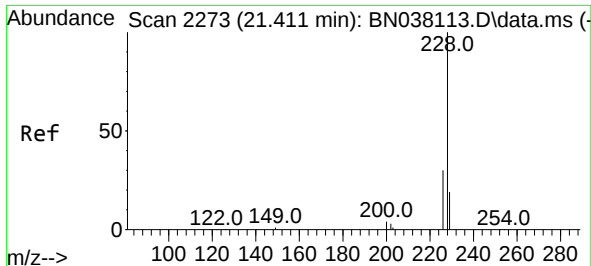
Tgt Ion:244 Resp: 17337  
Ion Ratio Lower Upper  
244 100  
212 9.5 7.8 11.6  
122 17.7 15.2 22.8



#32  
Benzo(a)anthracene  
Concen: 0.350 ng  
RT: 21.357 min Scan# 2267  
Delta R.T. -0.000 min  
Lab File: BN038132.D  
Acq: 04 Nov 2025 12:19

Tgt Ion:228 Resp: 20604  
Ion Ratio Lower Upper  
228 100  
226 27.8 22.2 33.4  
229 19.2 15.8 23.8

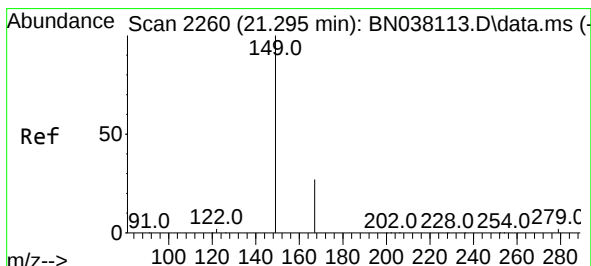
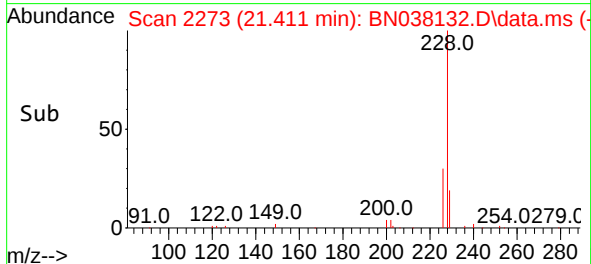
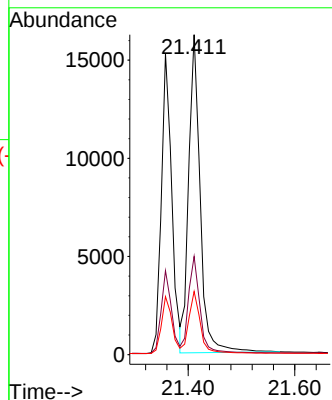
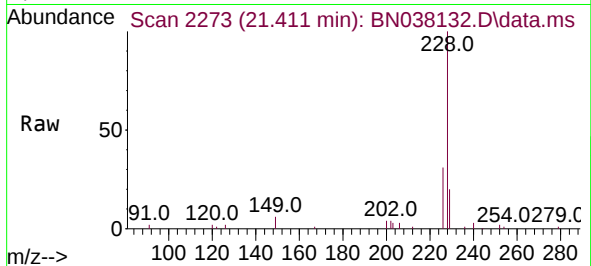




#33  
Chrysene  
Concen: 0.380 ng  
RT: 21.411 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: BN038132.D  
Acq: 04 Nov 2025 12:19

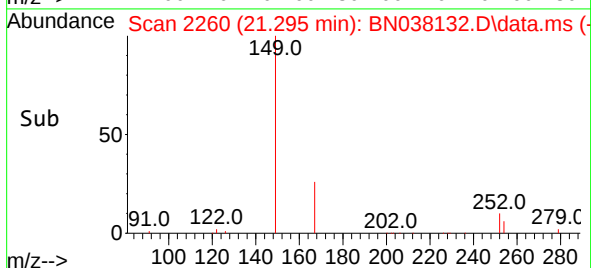
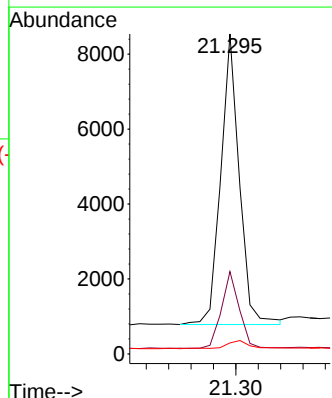
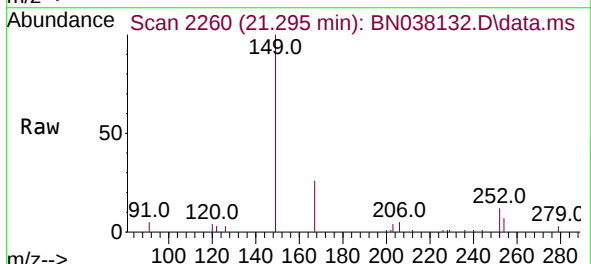
Instrument :  
BNA\_N  
ClientSampleId :  
PB170381BS

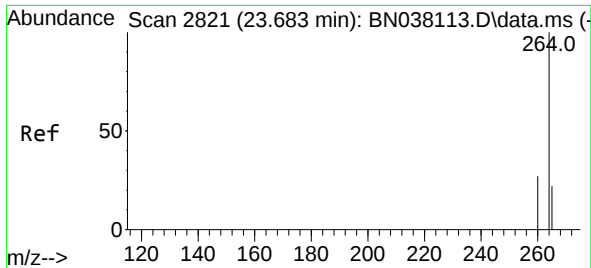
Tgt Ion:228 Resp: 24309  
Ion Ratio Lower Upper  
228 100  
226 30.7 24.3 36.5  
229 19.7 15.7 23.5



#34  
Bis(2-ethylhexyl)phthalate  
Concen: 0.287 ng  
RT: 21.295 min Scan# 2260  
Delta R.T. -0.000 min  
Lab File: BN038132.D  
Acq: 04 Nov 2025 12:19

Tgt Ion:149 Resp: 8897  
Ion Ratio Lower Upper  
149 100  
167 25.4 21.1 31.7  
279 3.5 2.9 4.3

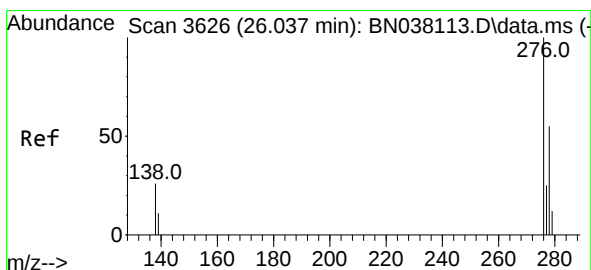
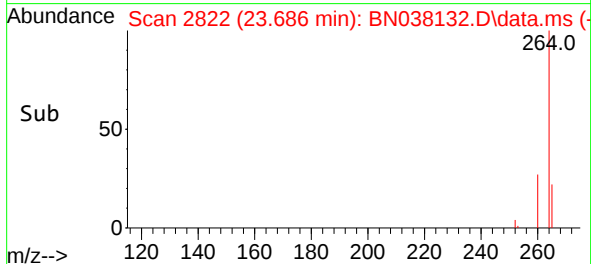
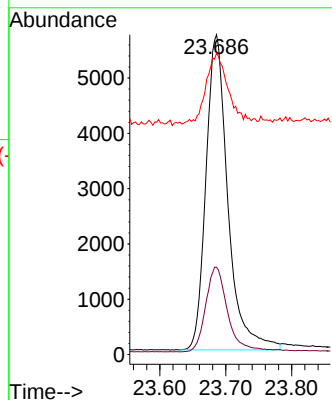
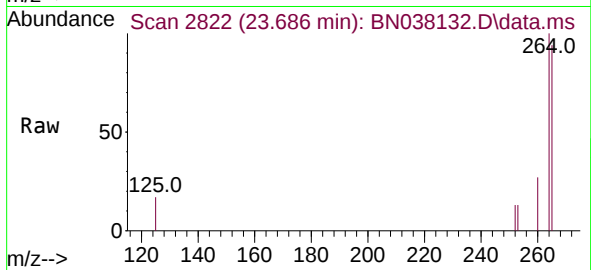




#35  
 Perylene-d12  
 Concen: 0.400 ng  
 RT: 23.686 min Scan# 2821  
 Delta R.T. 0.006 min  
 Lab File: BN038132.D  
 Acq: 04 Nov 2025 12:19

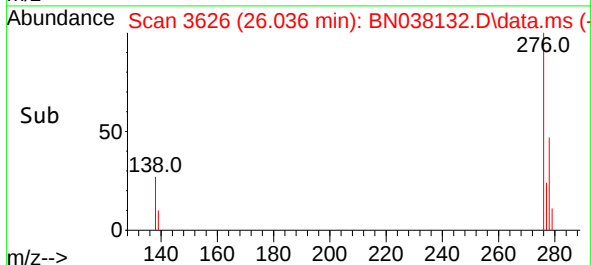
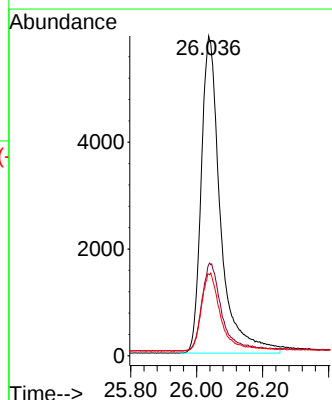
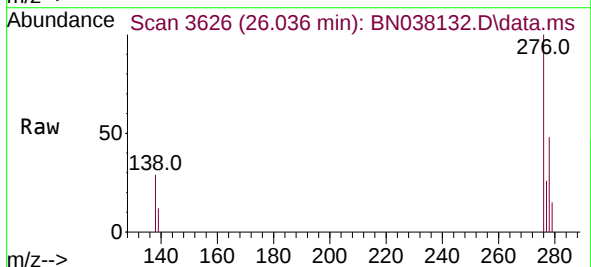
Instrument :  
 BNA\_N  
 ClientSampleId :  
 PB170381BS

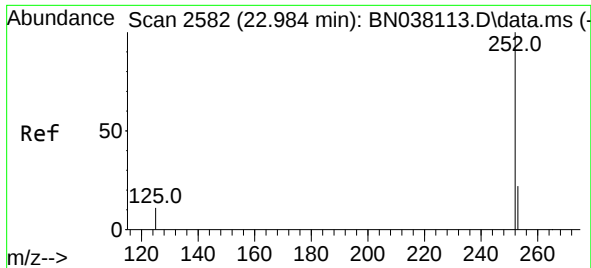
Tgt Ion:264 Resp: 13194  
 Ion Ratio Lower Upper  
 264 100  
 260 27.3 21.8 32.8  
 265 94.2 68.6 102.8



#36  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.442 ng  
 RT: 26.036 min Scan# 3626  
 Delta R.T. 0.003 min  
 Lab File: BN038132.D  
 Acq: 04 Nov 2025 12:19

Tgt Ion:276 Resp: 23949  
 Ion Ratio Lower Upper  
 276 100  
 138 28.4 21.4 32.0  
 277 23.9 19.2 28.8

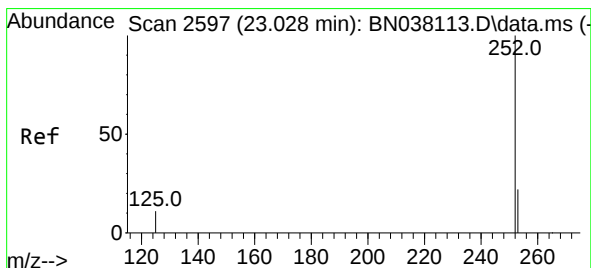
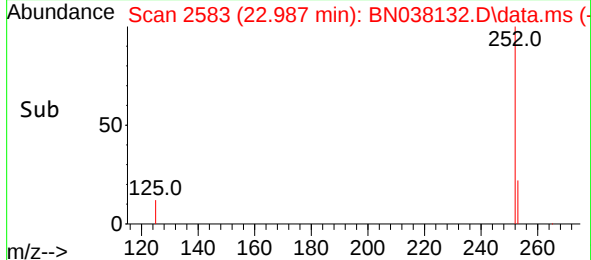
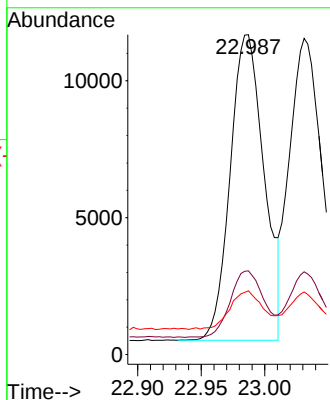
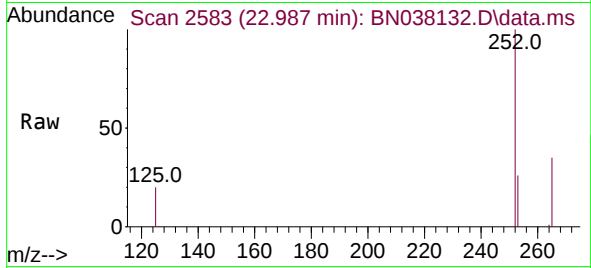




#37  
Benzo(b)fluoranthene  
Concen: 0.367 ng  
RT: 22.987 min Scan# 2582  
Delta R.T. 0.006 min  
Lab File: BN038132.D  
Acq: 04 Nov 2025 12:19

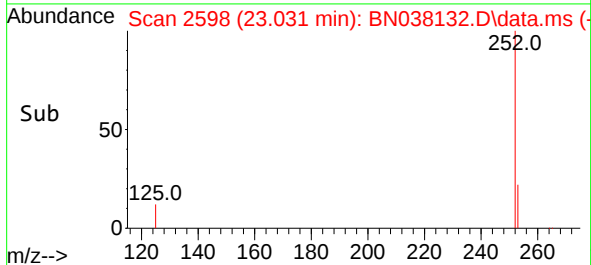
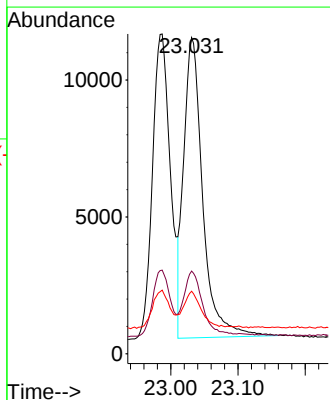
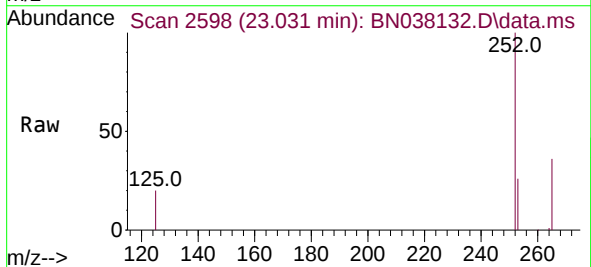
Instrument :  
BNA\_N  
ClientSampleId :  
PB170381BS

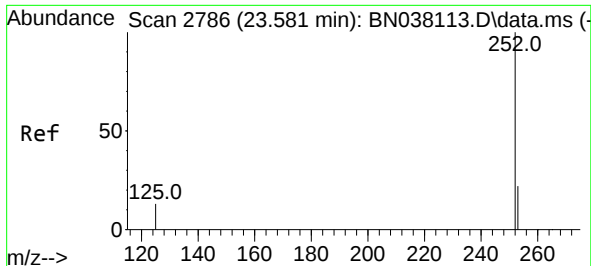
Tgt Ion:252 Resp: 20712  
Ion Ratio Lower Upper  
252 100  
253 26.2 20.9 31.3  
125 19.9 14.1 21.1



#38  
Benzo(k)fluoranthene  
Concen: 0.379 ng  
RT: 23.031 min Scan# 2598  
Delta R.T. 0.003 min  
Lab File: BN038132.D  
Acq: 04 Nov 2025 12:19

Tgt Ion:252 Resp: 21547  
Ion Ratio Lower Upper  
252 100  
253 26.2 21.2 31.8  
125 19.8 14.6 22.0





#39

Benzo(a)pyrene

Concen: 0.387 ng

RT: 23.584 min Scan# 21

Delta R.T. 0.006 min

Lab File: BN038132.D

Acq: 04 Nov 2025 12:19

Instrument :

BNA\_N

ClientSampleId :

PB170381BS

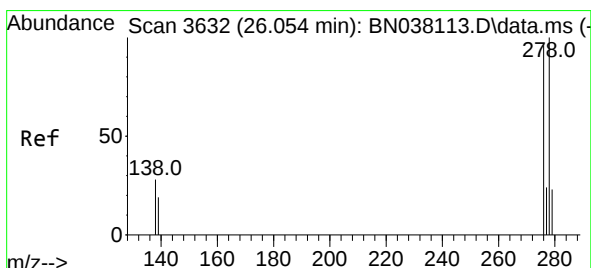
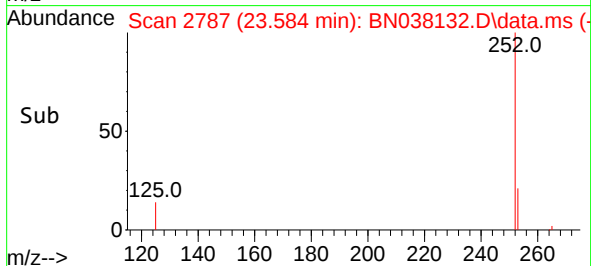
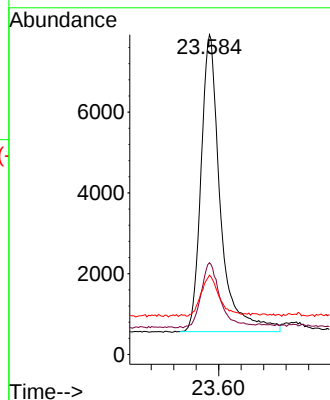
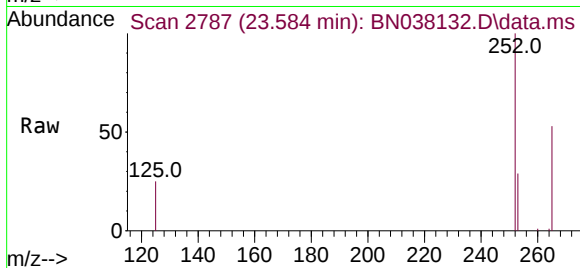
Tgt Ion:252 Resp: 17494

Ion Ratio Lower Upper

252 100

253 28.7 23.1 34.7

125 24.8 18.6 28.0



#40

Dibenzo(a,h)anthracene

Concen: 0.428 ng

RT: 26.054 min Scan# 3632

Delta R.T. 0.006 min

Lab File: BN038132.D

Acq: 04 Nov 2025 12:19

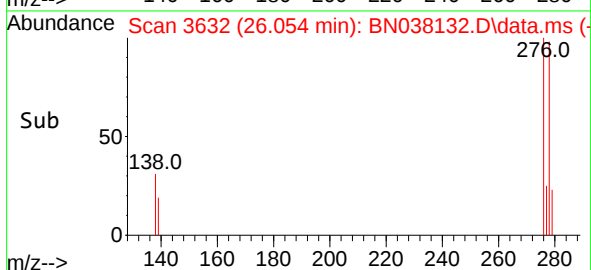
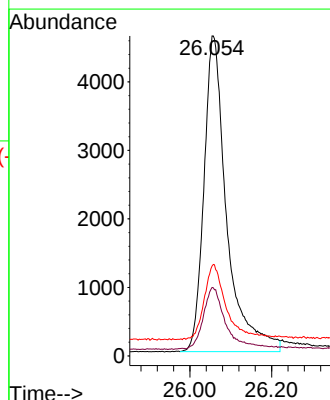
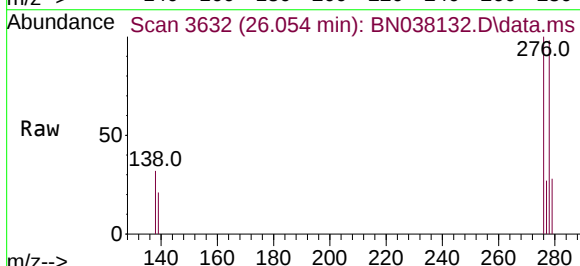
Tgt Ion:278 Resp: 17865

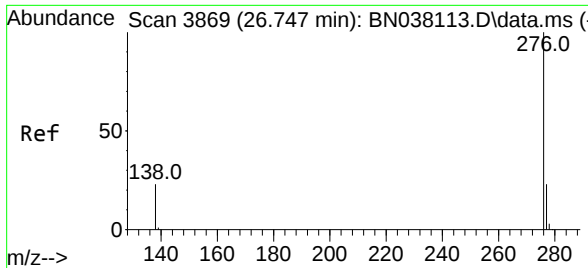
Ion Ratio Lower Upper

278 100

139 21.4 17.6 26.4

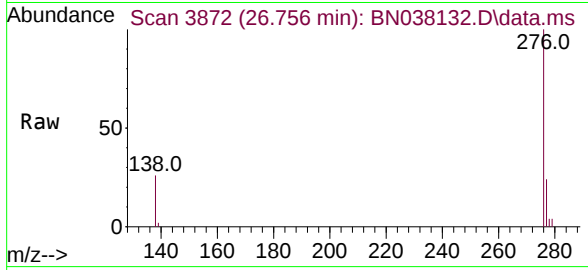
279 28.1 22.6 33.8



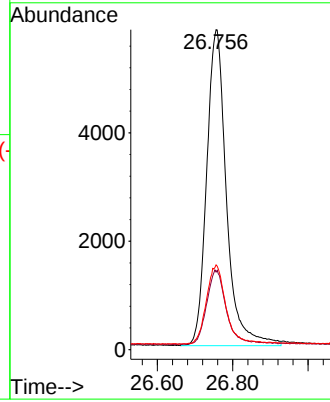
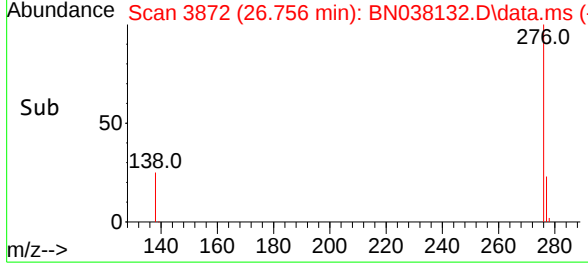


#41  
Benzo(g,h,i)perylene  
Concen: 0.447 ng  
RT: 26.756 min Scan# 38  
Delta R.T. 0.006 min  
Lab File: BN038132.D  
Acq: 04 Nov 2025 12:19

Instrument :  
BNA\_N  
ClientSampleId :  
PB170381BS



Tgt Ion:276 Resp: 21276  
Ion Ratio Lower Upper  
276 100  
277 24.3 19.7 29.5  
138 26.5 20.2 30.4



## Report of Analysis

|                    |                               |                     |                 |                |
|--------------------|-------------------------------|---------------------|-----------------|----------------|
| Client:            | Tetra Tech NUS, Inc.          |                     | Date Collected: |                |
| Project:           | NWIRP Bethpage 112G08005-WE13 |                     | Date Received:  |                |
| Client Sample ID:  | PB170381BSD                   |                     | SDG No.:        | Q3526          |
| Lab Sample ID:     | PB170381BSD                   |                     | Matrix:         | Water          |
| Analytical Method: | SW8270ESIM                    | Level: LOW          | % Solid:        | 0              |
| Sample Wt/Vol:     | 1000 mL                       | Final Vol: 1000 uL  | Test:           | SVOC-SIMGroup1 |
| Prep Method :      | 3510C                         | Prep Date: 11/03/25 |                 |                |

| CAS Number                | Parameter               | Conc.             | Qua. | DF | MDL      | LOD  | LOQ / CRQL | Units    | Date Ana.      | Prep BatchID |
|---------------------------|-------------------------|-------------------|------|----|----------|------|------------|----------|----------------|--------------|
| <b>TARGETS</b>            |                         |                   |      |    |          |      |            |          |                |              |
| 123-91-1                  | 1,4-Dioxane             | 0.26              |      | 1  | 0.070    | 0.20 | 0.20       | ug/L     | 11/04/25 12:56 | PB170381     |
| <b>SURROGATES</b>         |                         |                   |      |    |          |      |            |          |                |              |
| 7297-45-2                 | 2-Methylnaphthalene-d10 | 0.29              |      |    | 30 - 150 |      | 73%        | SPK: 0.4 |                |              |
| 93951-69-0                | Fluoranthene-d10        | 0.25              |      |    | 30 - 150 |      | 63%        | SPK: 0.4 |                |              |
| 4165-60-0                 | Nitrobenzene-d5         | 0.31              |      |    | 55 - 111 |      | 76%        | SPK: 0.4 |                |              |
| 321-60-8                  | 2-Fluorobiphenyl        | 0.32              |      |    | 53 - 106 |      | 81%        | SPK: 0.4 |                |              |
| 1718-51-0                 | Terphenyl-d14           | 0.36              |      |    | 58 - 132 |      | 91%        | SPK: 0.4 |                |              |
| <b>INTERNAL STANDARDS</b> |                         | <b>Area Count</b> |      |    |          |      |            |          |                |              |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4  | 10800             |      |    |          |      |            |          |                |              |
| 1146-65-2                 | Naphthalene-d8          | 30500             |      |    |          |      |            |          |                |              |
| 15067-26-2                | Acenaphthene-d10        | 15600             |      |    |          |      |            |          |                |              |
| 1517-22-2                 | Phenanthrene-d10        | 28800             |      |    |          |      |            |          |                |              |
| 1719-03-5                 | Chrysene-d12            | 18100             |      |    |          |      |            |          |                |              |
| 1520-96-3                 | Perylene-d12            | 14900             |      |    |          |      |            |          |                |              |

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\BN110425\  
 Data File : BN038133.D  
 Acq On : 04 Nov 2025 12:56  
 Operator : RC/JU  
 Sample : PB170381BSD  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 PB170381BSD

Quant Time: Nov 04 13:20:15 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN102825.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Oct 29 13:09:46 2025  
 Response via : Initial Calibration

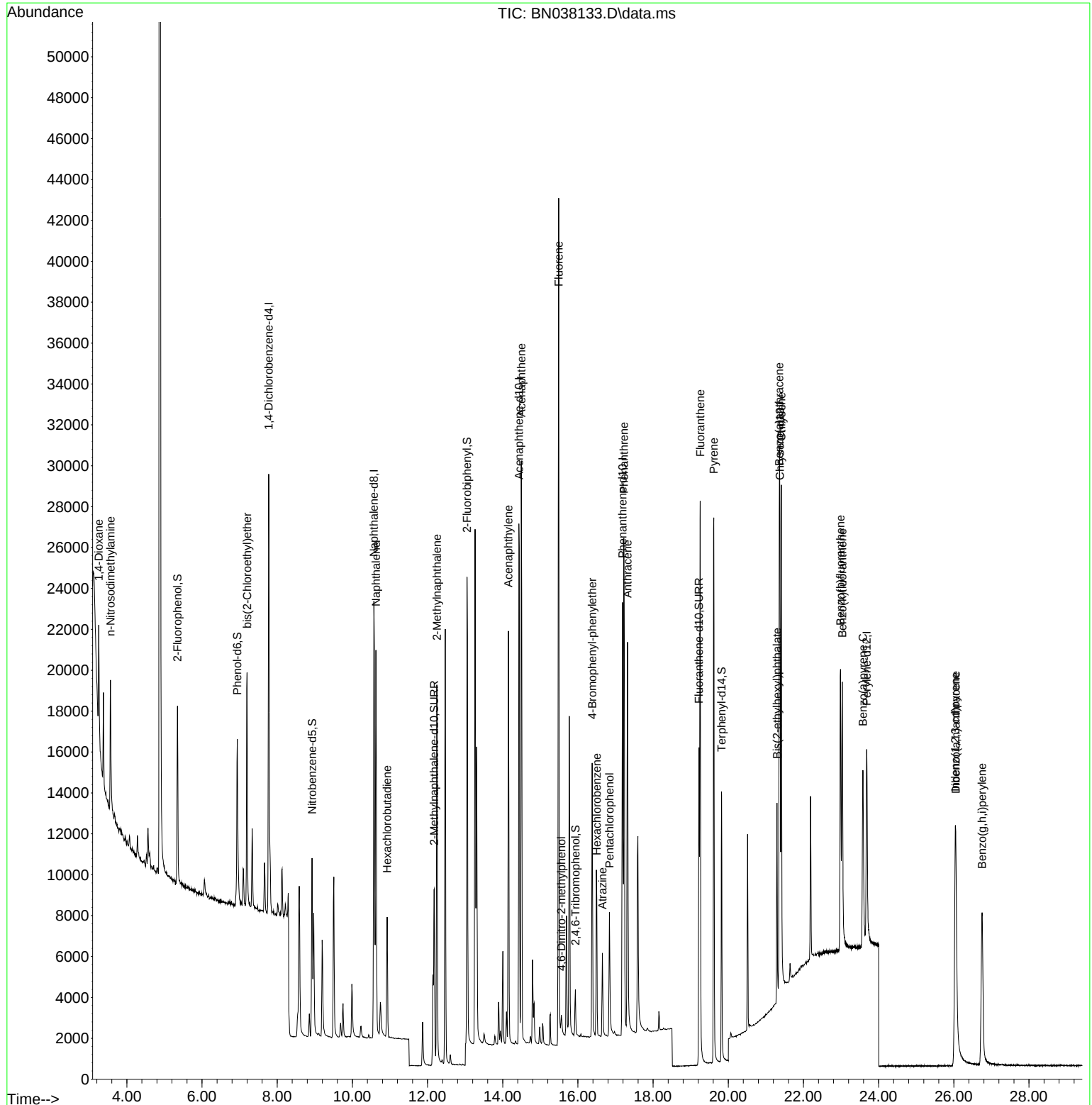
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.775  | 152  | 10823    | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.573 | 136  | 30534    | 0.400 | ng    | # 0.00   |
| 13) Acenaphthene-d10          | 14.430 | 164  | 15616    | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 17.186 | 188  | 28756    | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 21.375 | 240  | 18053    | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.683 | 264  | 14856    | 0.400 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.348  | 112  | 7259     | 0.285 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.937  | 99   | 8491     | 0.273 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.929  | 82   | 7527     | 0.305 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 12.172 | 152  | 12754    | 0.292 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.932 | 330  | 1353     | 0.210 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 13.051 | 172  | 20205    | 0.323 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 19.220 | 212  | 18424    | 0.254 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.824 | 244  | 14219    | 0.363 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
| 2) 1,4-Dioxane                | 3.254  | 88   | 2913     | 0.260 | ng    | # 69     |
| 3) n-Nitrosodimethylamine     | 3.564  | 42   | 4281     | 0.297 | ng    | # 93     |
| 6) bis(2-Chloroethyl)ether    | 7.197  | 93   | 9060     | 0.297 | ng    | 98       |
| 9) Naphthalene                | 10.626 | 128  | 25040    | 0.298 | ng    | 100      |
| 10) Hexachlorobutadiene       | 10.925 | 225  | 4498     | 0.317 | ng    | # 99     |
| 12) 2-Methylnaphthalene       | 12.248 | 142  | 14295    | 0.255 | ng    | 97       |
| 16) Acenaphthylene            | 14.152 | 152  | 22428    | 0.317 | ng    | 99       |
| 17) Acenaphthene              | 14.495 | 154  | 14121    | 0.285 | ng    | 97       |
| 18) Fluorene                  | 15.489 | 166  | 18901    | 0.291 | ng    | 99       |
| 20) 4,6-Dinitro-2-methylph... | 15.560 | 198  | 792      | 0.328 | ng    | # 80     |
| 21) 4-Bromophenyl-phenylether | 16.379 | 248  | 5427     | 0.288 | ng    | 100      |
| 22) Hexachlorobenzene         | 16.503 | 284  | 6880     | 0.321 | ng    | 99       |
| 23) Atrazine                  | 16.652 | 200  | 3562     | 0.258 | ng    | 99       |
| 24) Pentachlorophenol         | 16.838 | 266  | 3398     | 0.368 | ng    | 99       |
| 25) Phenanthrene              | 17.223 | 178  | 26605    | 0.291 | ng    | 100      |
| 26) Anthracene                | 17.322 | 178  | 23247    | 0.291 | ng    | 99       |
| 28) Fluoranthene              | 19.253 | 202  | 25972    | 0.255 | ng    | 100      |
| 30) Pyrene                    | 19.615 | 202  | 25592    | 0.314 | ng    | 100      |
| 32) Benzo(a)anthracene        | 21.358 | 228  | 18334    | 0.285 | ng    | 99       |
| 33) Chrysene                  | 21.411 | 228  | 21765    | 0.311 | ng    | 100      |
| 34) Bis(2-ethylhexyl)phtha... | 21.295 | 149  | 7715     | 0.227 | ng    | 99       |
| 36) Indeno(1,2,3-cd)pyrene    | 26.037 | 276  | 19208    | 0.315 | ng    | 97       |
| 37) Benzo(b)fluoranthene      | 22.984 | 252  | 18434    | 0.290 | ng    | 97       |
| 38) Benzo(k)fluoranthene      | 23.031 | 252  | 19683    | 0.308 | ng    | 98       |
| 39) Benzo(a)pyrene            | 23.581 | 252  | 15027    | 0.296 | ng    | 97       |
| 40) Dibenzo(a,h)anthracene    | 26.054 | 278  | 14795    | 0.315 | ng    | 99       |
| 41) Benzo(g,h,i)perylene      | 26.753 | 276  | 17207    | 0.321 | ng    | 98       |

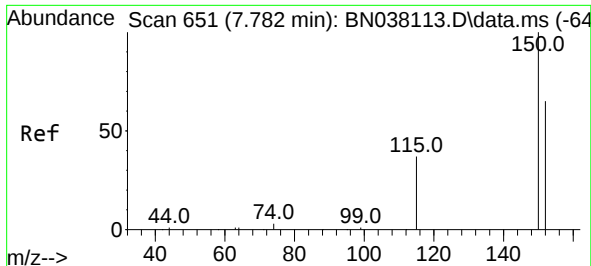
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN110425\  
Data File : BN038133.D  
Acq On : 04 Nov 2025 12:56  
Operator : RC/JU  
Sample : PB170381BSD  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
PB170381BSD

Quant Time: Nov 04 13:20:15 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN102825.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Oct 29 13:09:46 2025  
Response via : Initial Calibration

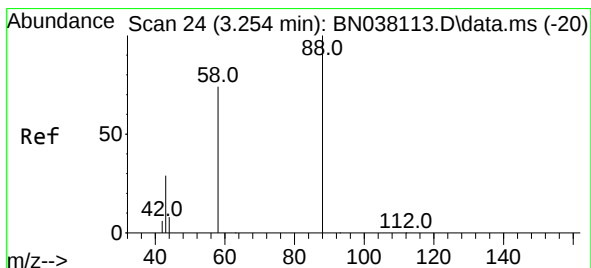
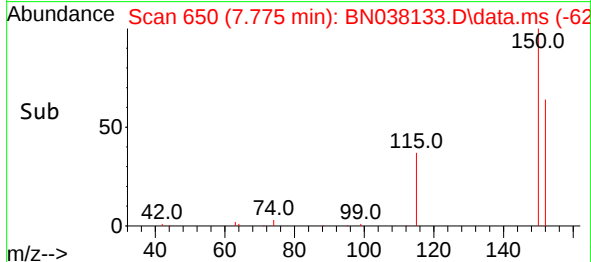
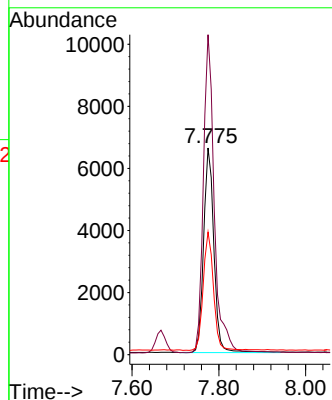
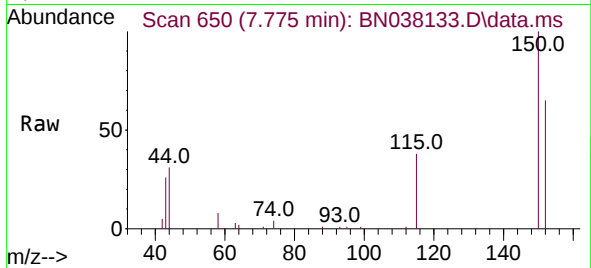




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 0.400 ng  
 RT: 7.775 min Scan# 61  
 Delta R.T. 0.000 min  
 Lab File: BN038113.D  
 Acq: 04 Nov 2025 12:56

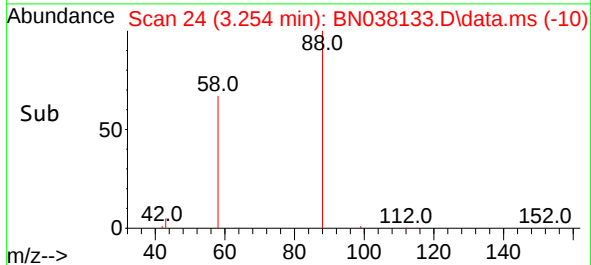
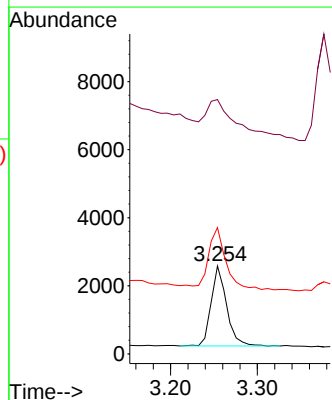
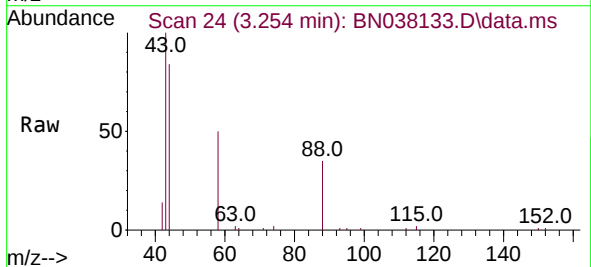
Instrument :  
 BNA\_N  
 ClientSampleId :  
 PB170381BSD

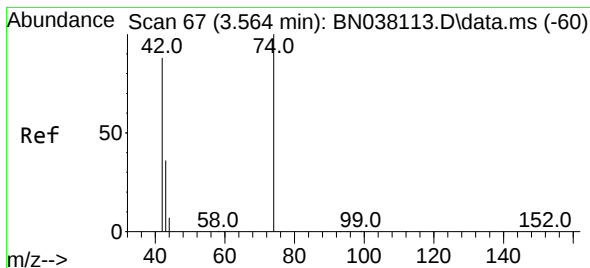
Tgt Ion:152 Resp: 10823  
 Ion Ratio Lower Upper  
 152 100  
 150 154.8 122.3 183.5  
 115 59.3 47.4 71.0



#2  
 1,4-Dioxane  
 Concen: 0.260 ng  
 RT: 3.254 min Scan# 24  
 Delta R.T. 0.000 min  
 Lab File: BN038113.D  
 Acq: 04 Nov 2025 12:56

Tgt Ion: 88 Resp: 2913  
 Ion Ratio Lower Upper  
 88 100  
 43 71.2 24.3 36.5#  
 58 87.3 60.4 90.6





#3

n-Nitrosodimethylamine

Concen: 0.297 ng

RT: 3.564 min Scan# 61

Delta R.T. 0.007 min

Lab File: BN038133.D

Acq: 04 Nov 2025 12:56

Instrument :

BNA\_N

ClientSampleId :

PB170381BSD

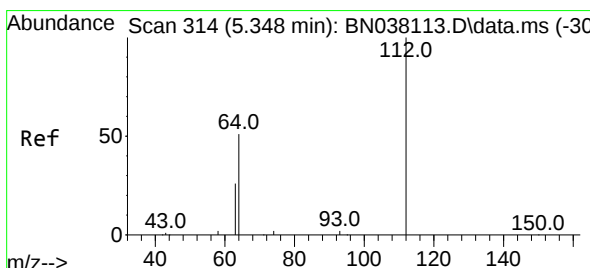
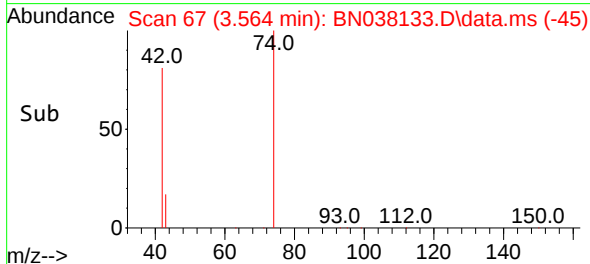
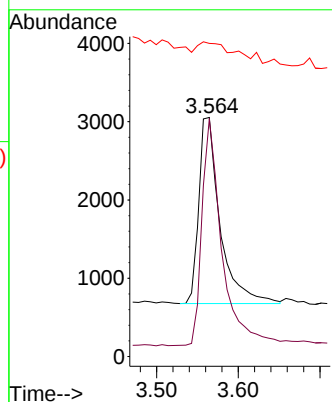
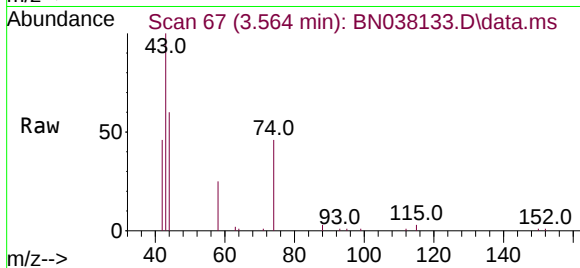
Tgt Ion: 42 Resp: 4281

Ion Ratio Lower Upper

42 100

74 116.1 96.8 145.2

44 25.7 5.3 7.9#



#4

2-Fluorophenol

Concen: 0.285 ng

RT: 5.348 min Scan# 314

Delta R.T. 0.000 min

Lab File: BN038133.D

Acq: 04 Nov 2025 12:56

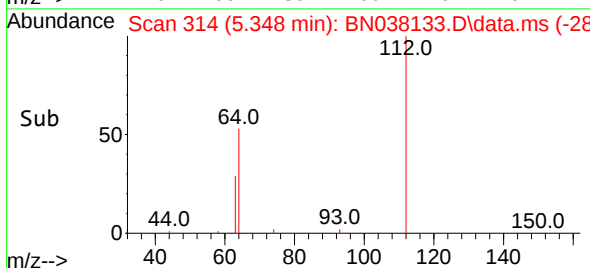
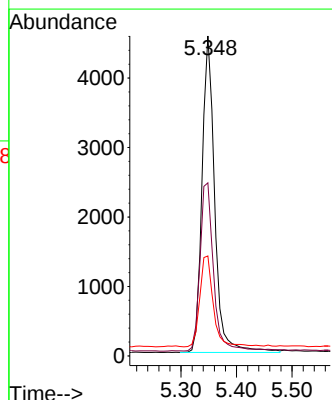
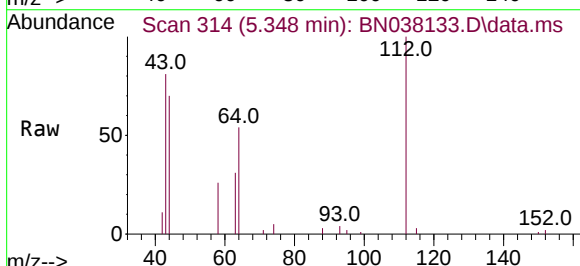
Tgt Ion: 112 Resp: 7259

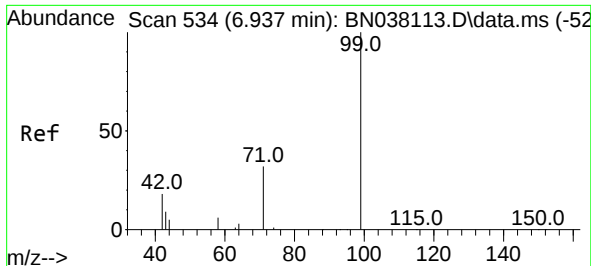
Ion Ratio Lower Upper

112 100

64 57.2 45.4 68.0

63 30.8 23.2 34.8

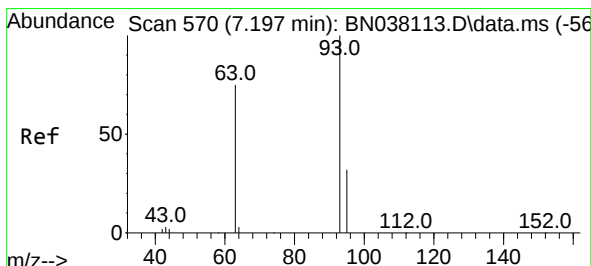
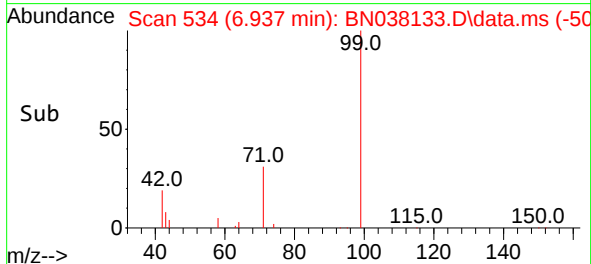
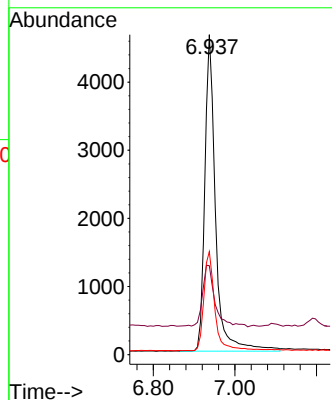
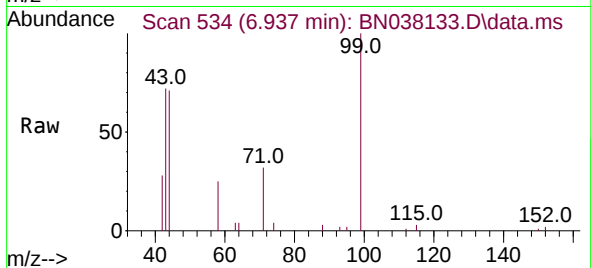




#5  
Phenol-d6  
Concen: 0.273 ng  
RT: 6.937 min Scan# 534  
Delta R.T. 0.000 min  
Lab File: BN038113.D  
Acq: 04 Nov 2025 12:56

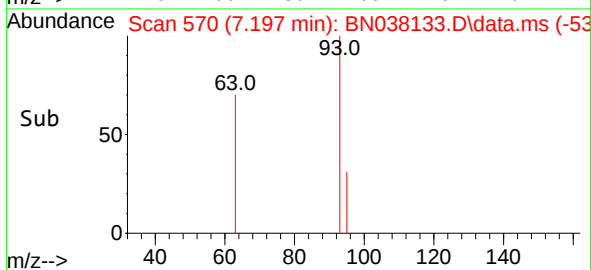
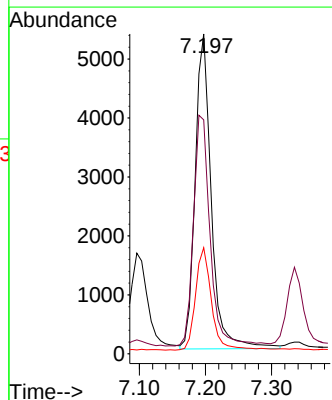
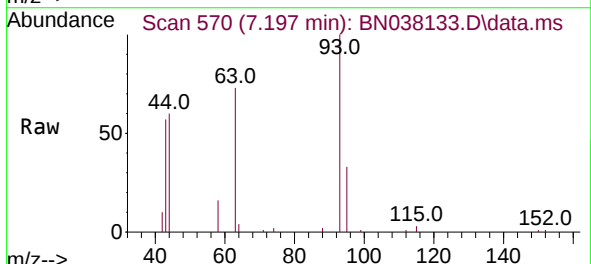
Instrument :  
BNA\_N  
ClientSampleId :  
PB170381BSD

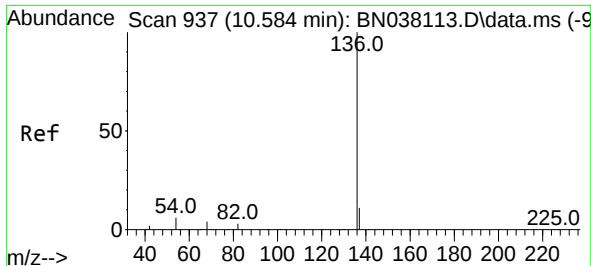
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 99    | Resp: | 8491  |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 22.9  | 16.6  | 24.8  |
| 71       | 31.9  | 25.4  | 38.2  |



#6  
bis(2-Chloroethyl)ether  
Concen: 0.297 ng  
RT: 7.197 min Scan# 570  
Delta R.T. 0.000 min  
Lab File: BN038113.D  
Acq: 04 Nov 2025 12:56

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 93    | Resp: | 9060  |
| Ion      | Ratio | Lower | Upper |
| 93       | 100   |       |       |
| 63       | 75.7  | 59.3  | 88.9  |
| 95       | 32.3  | 25.2  | 37.8  |

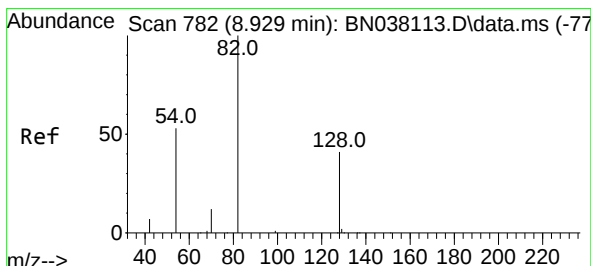
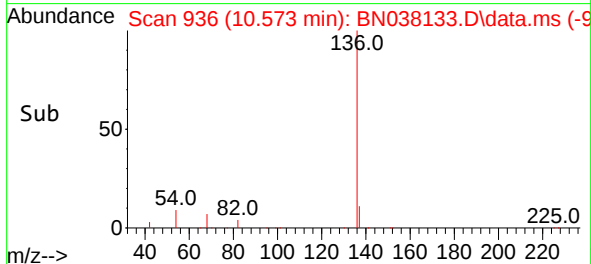
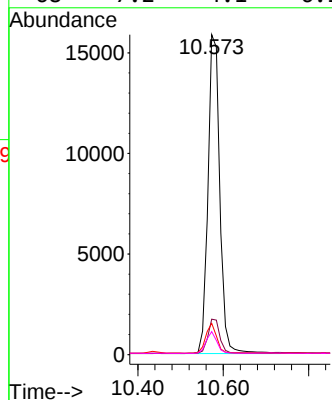
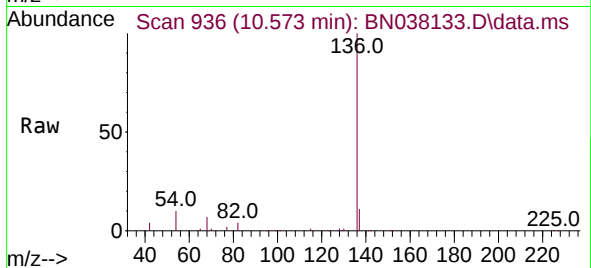




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.573 min Scan# 937  
Delta R.T. 0.000 min  
Lab File: BN038133.D  
Acq: 04 Nov 2025 12:56

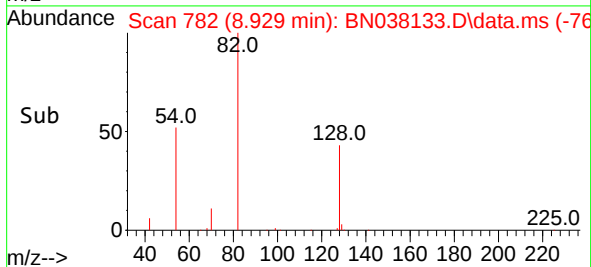
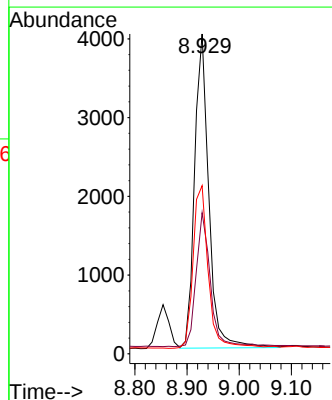
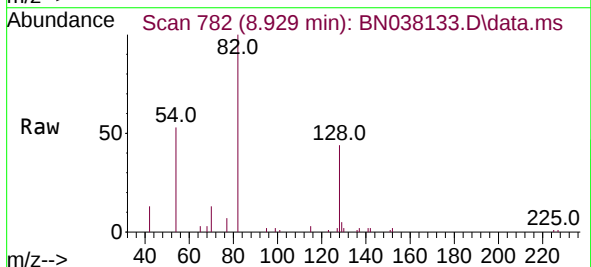
Instrument :  
BNA\_N  
ClientSampleId :  
PB170381BSD

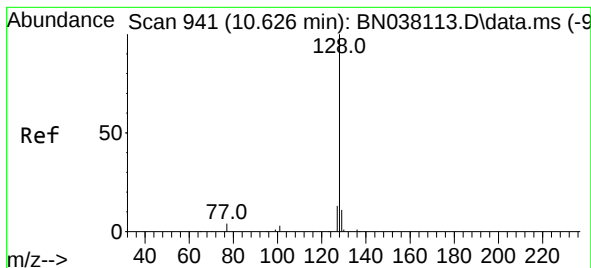
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 136   | Resp: | 30534 |
| Ion Ratio | Lower | Upper |       |
| 136       | 100   |       |       |
| 137       | 11.1  | 9.0   | 13.4  |
| 54        | 9.8   | 5.2   | 7.8#  |
| 68        | 7.2   | 4.1   | 6.1#  |



#8  
Nitrobenzene-d5  
Concen: 0.305 ng  
RT: 8.929 min Scan# 782  
Delta R.T. 0.000 min  
Lab File: BN038133.D  
Acq: 04 Nov 2025 12:56

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 82    | Resp: | 7527 |
| Ion Ratio | Lower | Upper |      |
| 82        | 100   |       |      |
| 128       | 44.1  | 34.1  | 51.1 |
| 54        | 52.6  | 43.5  | 65.3 |





#9

Naphthalene

Concen: 0.298 ng

RT: 10.626 min Scan# 941

Delta R.T. 0.000 min

Lab File: BN038133.D

Acq: 04 Nov 2025 12:56

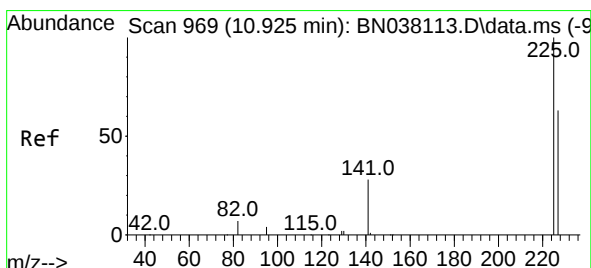
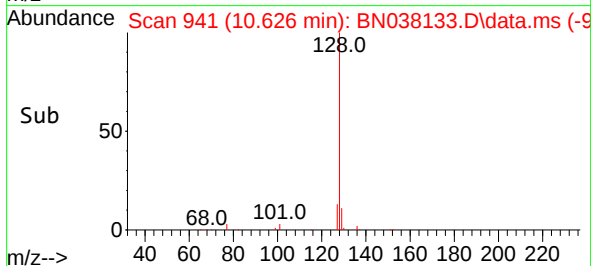
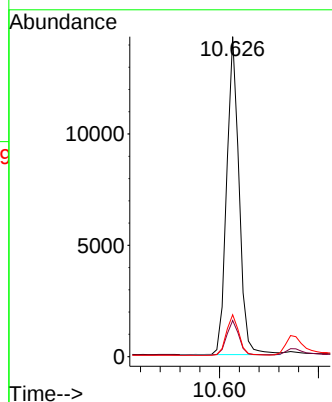
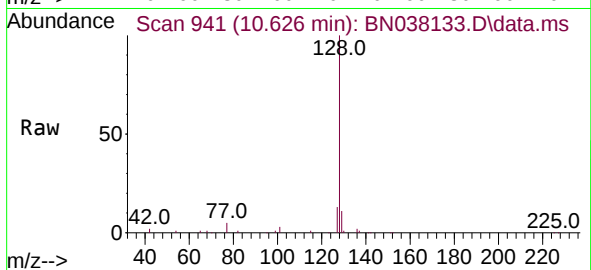
Instrument :

BNA\_N

ClientSampleId :

PB170381BSD

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 25040 |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 129      | 11.3  | 9.1   | 13.7  |
| 127      | 13.1  | 10.5  | 15.7  |



#10

Hexachlorobutadiene

Concen: 0.317 ng

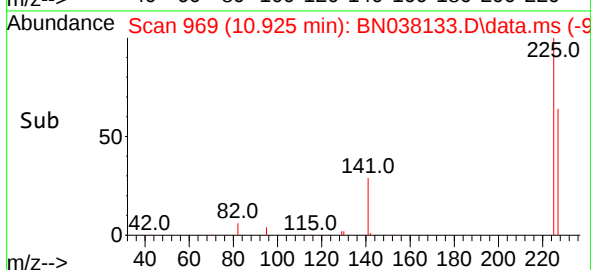
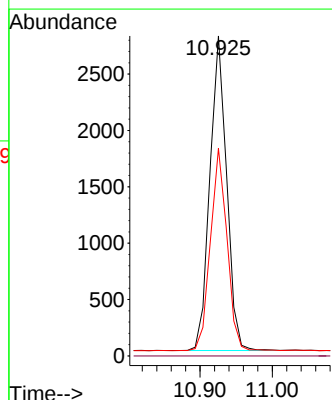
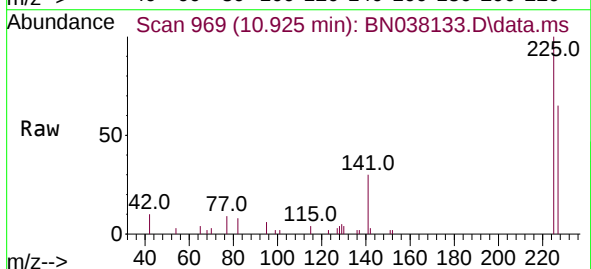
RT: 10.925 min Scan# 969

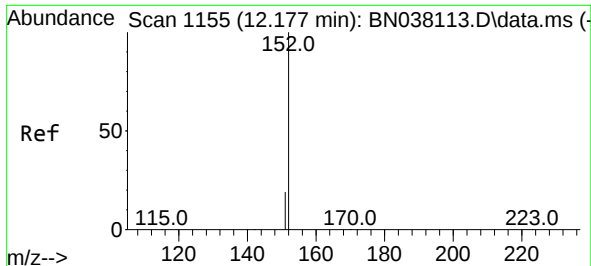
Delta R.T. 0.000 min

Lab File: BN038133.D

Acq: 04 Nov 2025 12:56

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 225   | Resp: | 4498  |
| Ion      | Ratio | Lower | Upper |
| 225      | 100   |       |       |
| 223      | 0.0   | 0.0   | 0.0   |
| 227      | 63.5  | 50.3  | 75.5  |

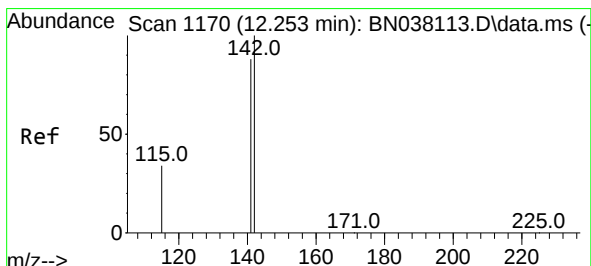
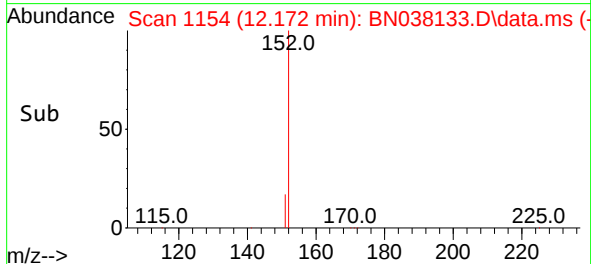
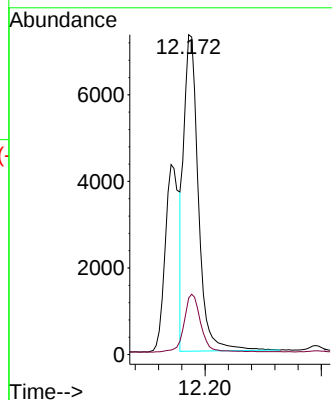
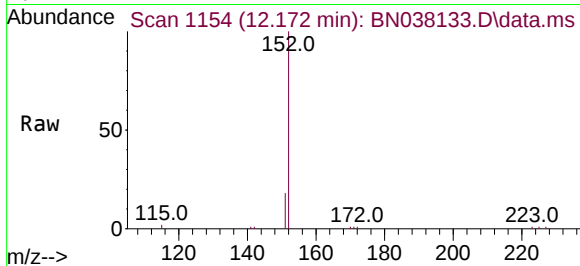




#11  
2-Methylnaphthalene-d10  
Concen: 0.292 ng  
RT: 12.172 min Scan# 1155  
Delta R.T. -0.005 min  
Lab File: BN038113.D  
Acq: 04 Nov 2025 12:56

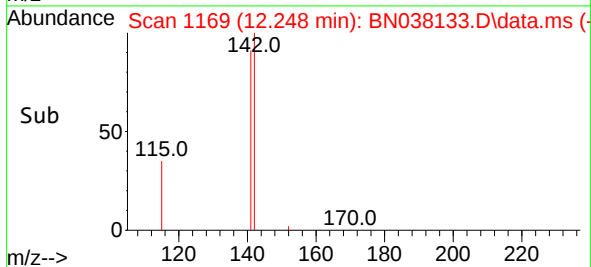
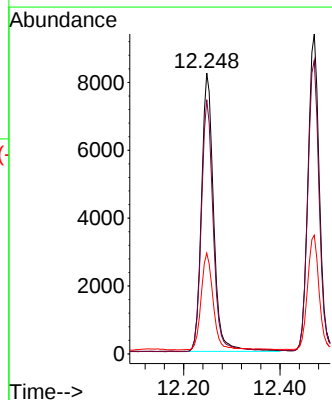
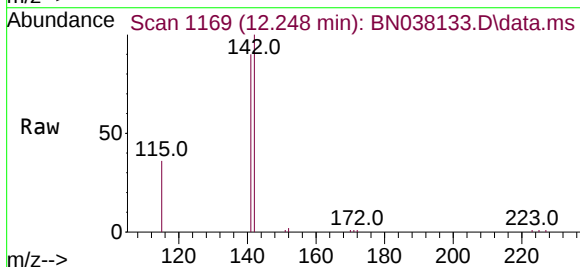
Instrument :  
BNA\_N  
ClientSampleId :  
PB170381BSD

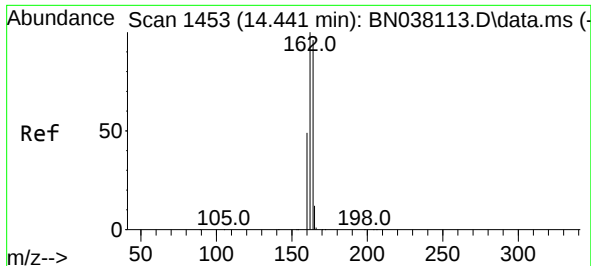
Tgt Ion:152 Resp: 12754  
Ion Ratio Lower Upper  
152 100  
151 20.9 16.8 25.2



#12  
2-Methylnaphthalene  
Concen: 0.255 ng  
RT: 12.248 min Scan# 1169  
Delta R.T. 0.000 min  
Lab File: BN038133.D  
Acq: 04 Nov 2025 12:56

Tgt Ion:142 Resp: 14295  
Ion Ratio Lower Upper  
142 100  
141 90.5 70.3 105.5  
115 35.9 27.8 41.6

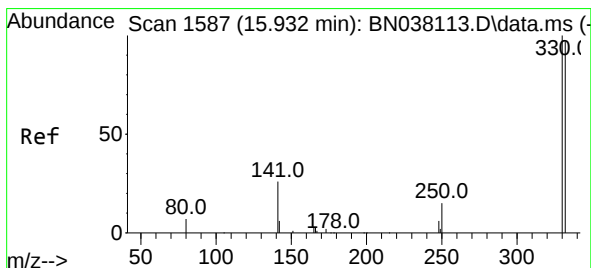
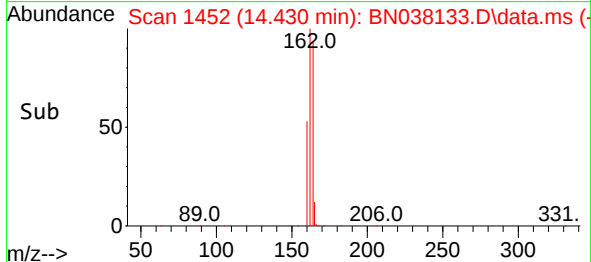
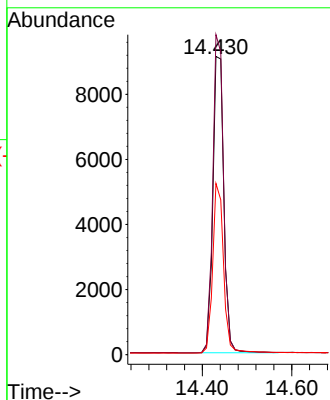
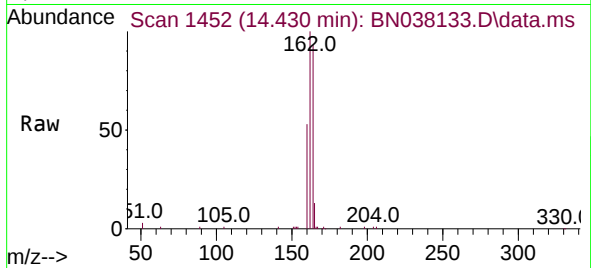




#13  
 Acenaphthene-d10  
 Concen: 0.400 ng  
 RT: 14.430 min Scan# 1453  
 Delta R.T. 0.000 min  
 Lab File: BN038113.D  
 Acq: 04 Nov 2025 12:56

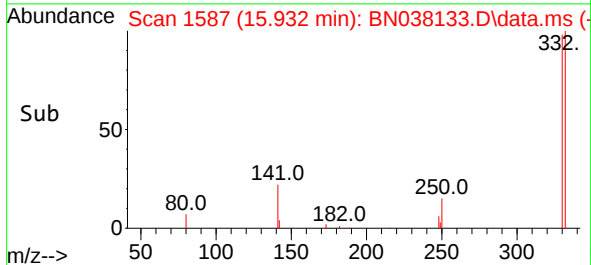
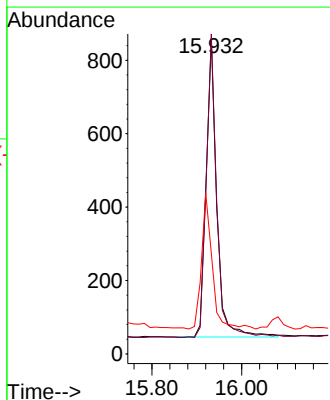
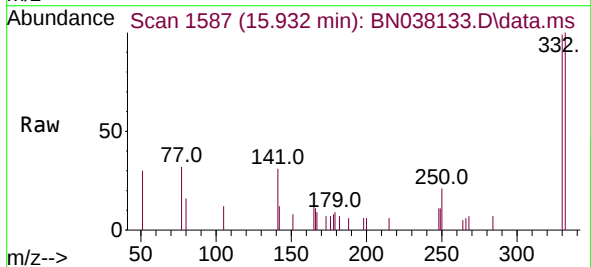
Instrument :  
 BNA\_N  
 ClientSampleId :  
 PB170381BSD

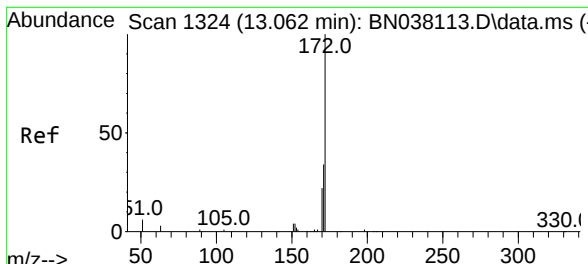
Tgt Ion:164 Resp: 15616  
 Ion Ratio Lower Upper  
 164 100  
 162 107.3 83.0 124.4  
 160 57.4 40.7 61.1



#14  
 2,4,6-Tribromophenol  
 Concen: 0.210 ng  
 RT: 15.932 min Scan# 1587  
 Delta R.T. 0.000 min  
 Lab File: BN038113.D  
 Acq: 04 Nov 2025 12:56

Tgt Ion:330 Resp: 1353  
 Ion Ratio Lower Upper  
 330 100  
 332 99.6 76.6 114.8  
 141 45.0 34.1 51.1

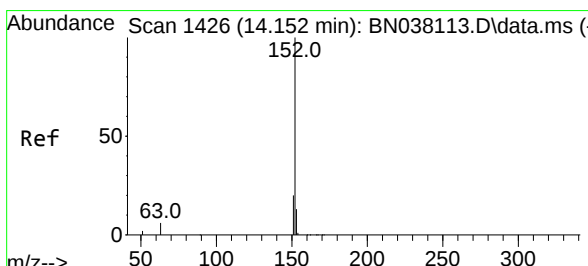
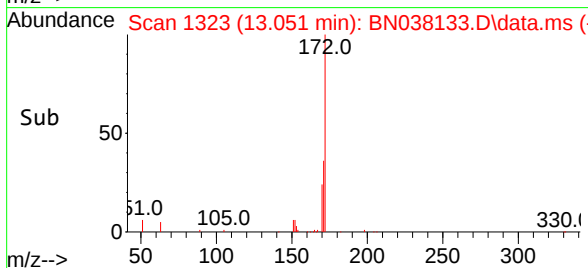
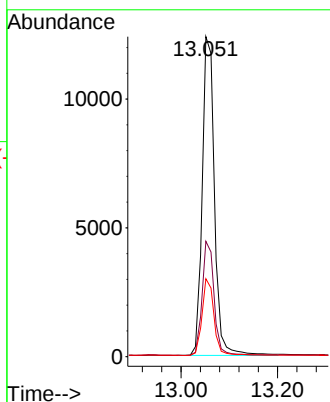
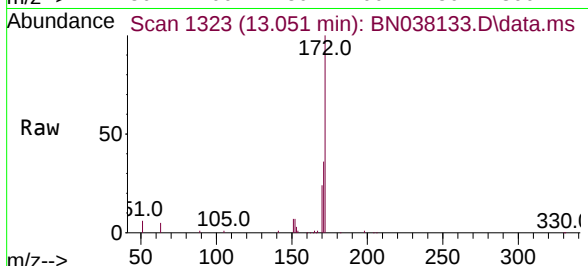




#15  
 2-Fluorobiphenyl  
 Concen: 0.323 ng  
 RT: 13.051 min Scan# 1323  
 Delta R.T. 0.000 min  
 Lab File: BN038133.D  
 Acq: 04 Nov 2025 12:56

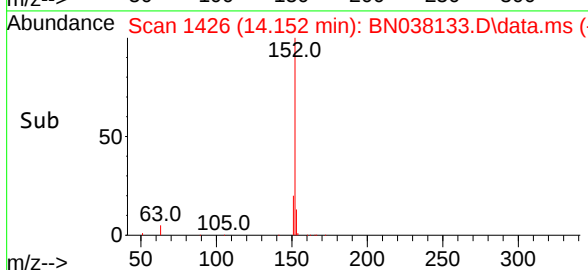
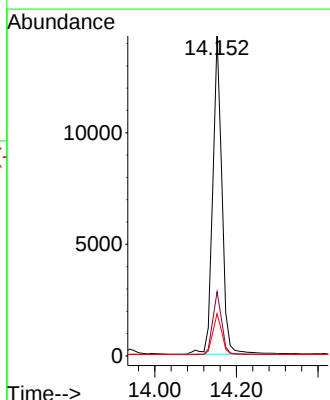
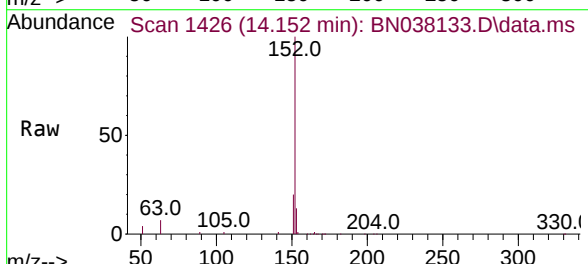
Instrument :  
 BNA\_N  
 ClientSampleId :  
 PB170381BSD

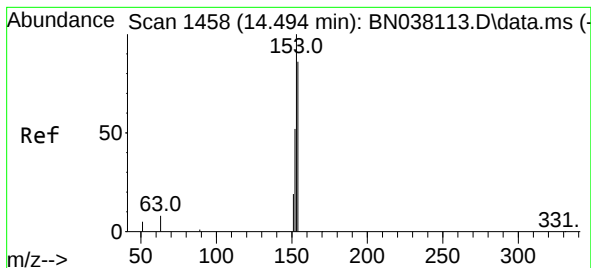
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 172   | Resp: | 20205 |
| Ion Ratio | Lower | Upper |       |
| 172       | 100   |       |       |
| 171       | 36.0  | 27.8  | 41.6  |
| 170       | 24.3  | 18.1  | 27.1  |



#16  
 Acenaphthylene  
 Concen: 0.317 ng  
 RT: 14.152 min Scan# 1426  
 Delta R.T. 0.000 min  
 Lab File: BN038133.D  
 Acq: 04 Nov 2025 12:56

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 152   | Resp: | 22428 |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 19.6  | 15.8  | 23.8  |
| 153       | 13.0  | 10.2  | 15.2  |





#17

Acenaphthene

Concen: 0.285 ng

RT: 14.495 min Scan# 1458

Delta R.T. 0.000 min

Lab File: BN038133.D

Acq: 04 Nov 2025 12:56

Instrument :

BNA\_N

ClientSampleId :

PB170381BSD

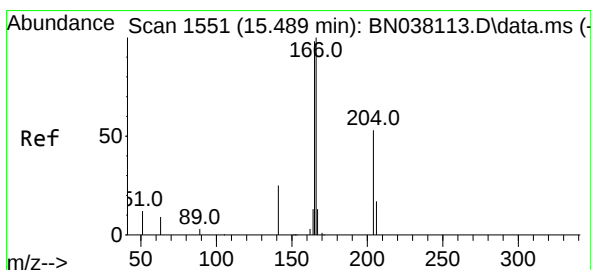
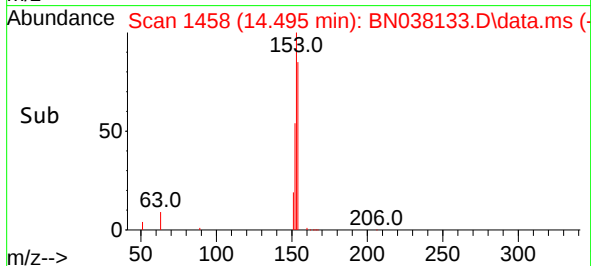
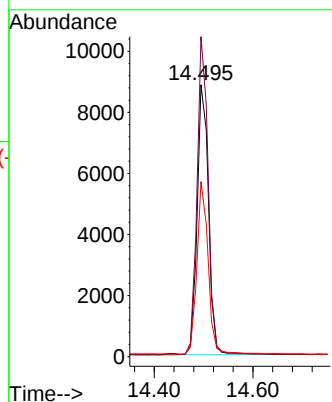
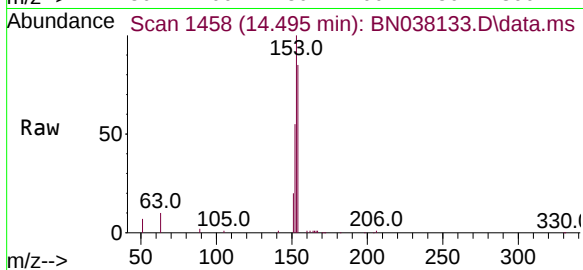
Tgt Ion:154 Resp: 14121

Ion Ratio Lower Upper

154 100

153 115.5 90.0 135.0

152 62.6 47.3 70.9



#18

Fluorene

Concen: 0.291 ng

RT: 15.489 min Scan# 1551

Delta R.T. -0.000 min

Lab File: BN038133.D

Acq: 04 Nov 2025 12:56

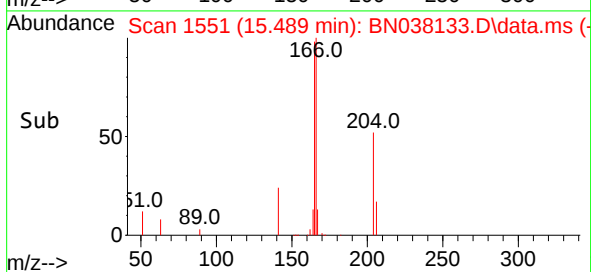
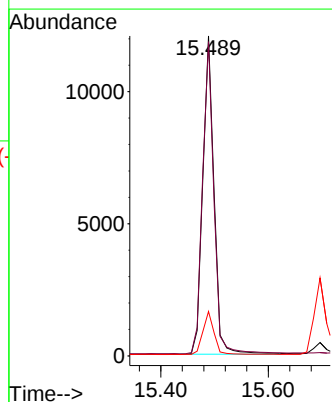
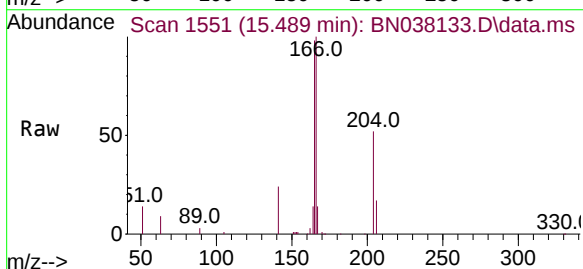
Tgt Ion:166 Resp: 18901

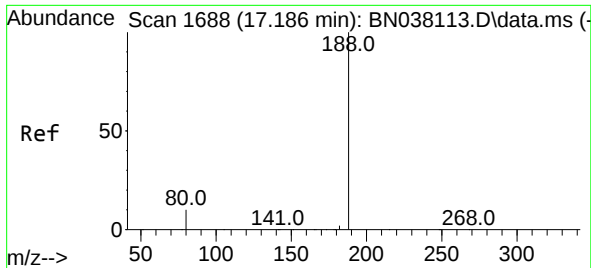
Ion Ratio Lower Upper

166 100

165 99.6 79.0 118.4

167 13.4 10.7 16.1

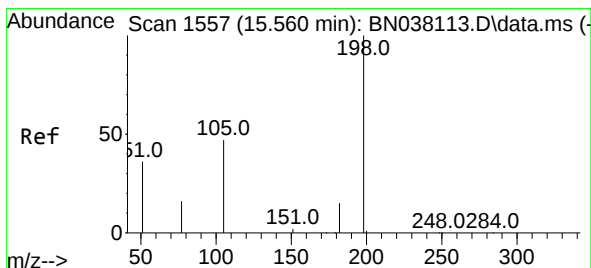
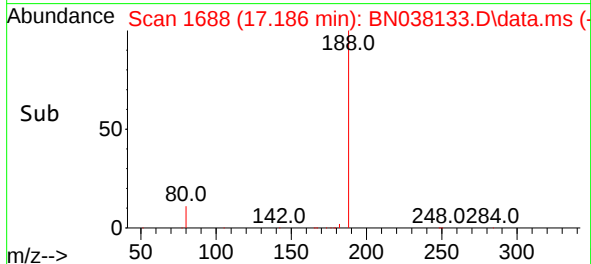
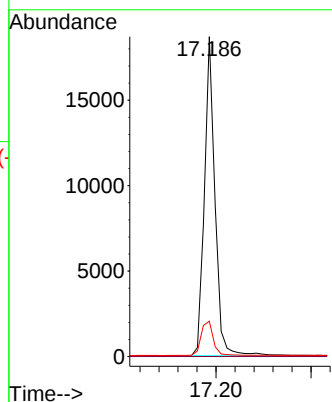
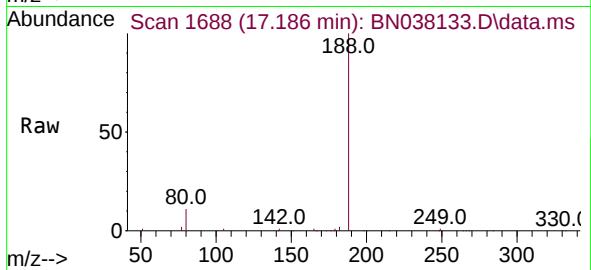




#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 17.186 min Scan# 1688  
Delta R.T. 0.000 min  
Lab File: BN038113.D  
Acq: 04 Nov 2025 12:56

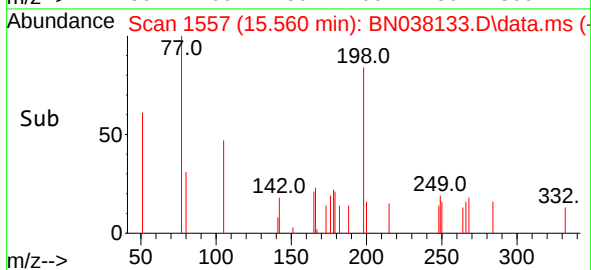
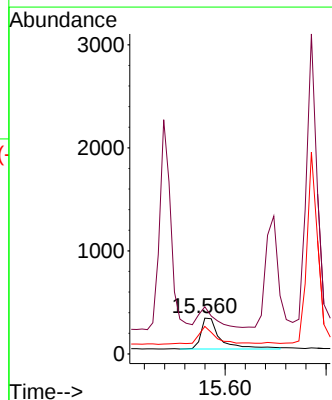
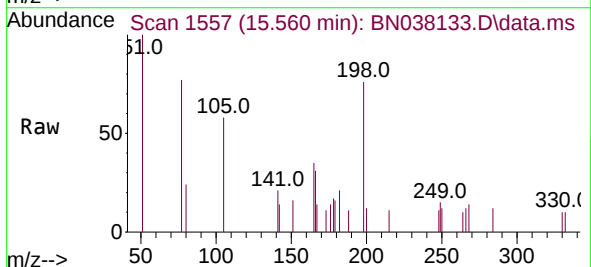
Instrument :  
BNA\_N  
ClientSampleId :  
PB170381BSD

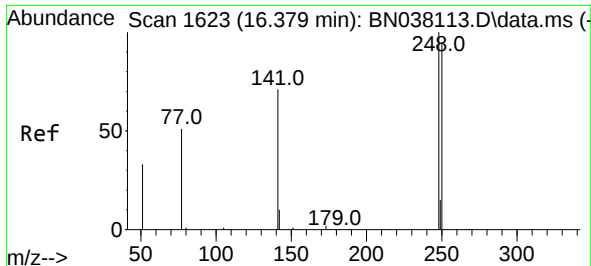
Tgt Ion:188 Resp: 28756  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 11.1 8.6 13.0



#20  
4,6-Dinitro-2-methylphenol  
Concen: 0.328 ng  
RT: 15.560 min Scan# 1557  
Delta R.T. -0.000 min  
Lab File: BN038113.D  
Acq: 04 Nov 2025 12:56

Tgt Ion:198 Resp: 792  
Ion Ratio Lower Upper  
198 100  
51 131.7 88.9 133.3  
105 76.9 49.2 73.8

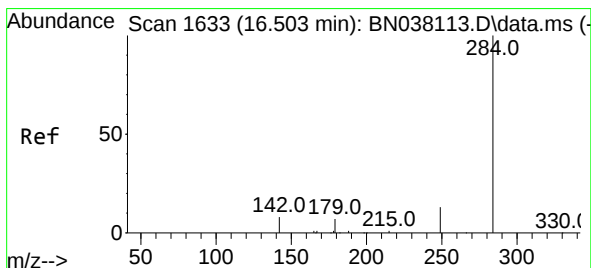
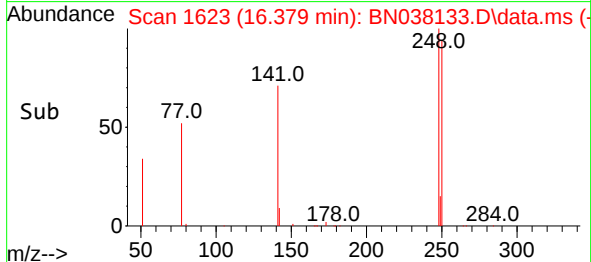
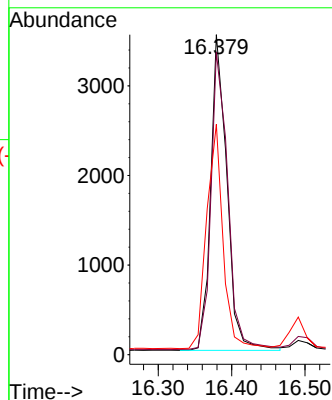
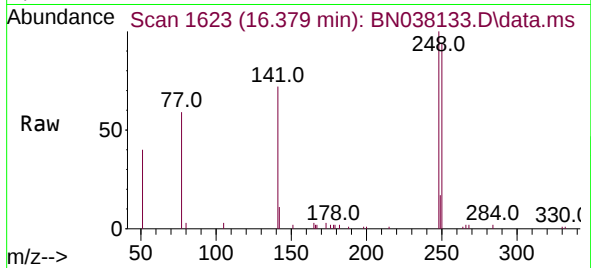




#21  
4-Bromophenyl-phenylether  
Concen: 0.288 ng  
RT: 16.379 min Scan# 1623  
Delta R.T. 0.000 min  
Lab File: BN038113.D  
Acq: 04 Nov 2025 12:56

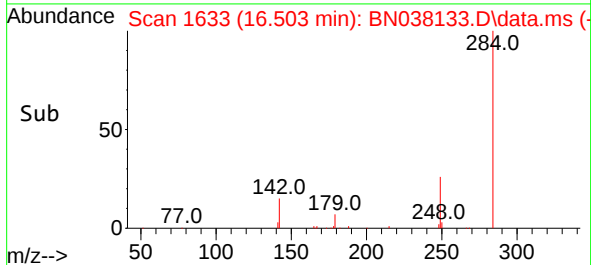
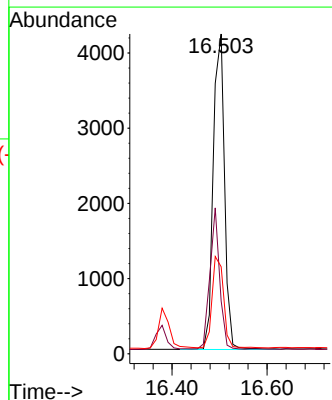
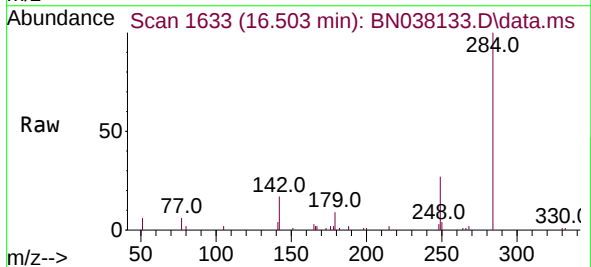
Instrument :  
BNA\_N  
ClientSampleId :  
PB170381BSD

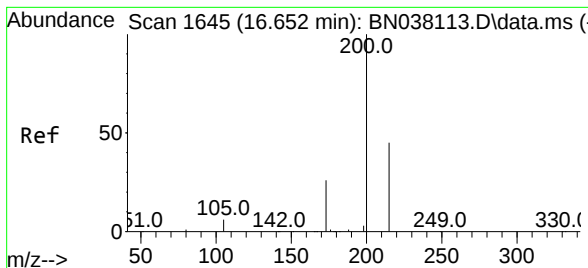
Tgt Ion:248 Resp: 5427  
Ion Ratio Lower Upper  
248 100  
250 94.4 76.2 114.2  
141 72.0 57.6 86.4



#22  
Hexachlorobenzene  
Concen: 0.321 ng  
RT: 16.503 min Scan# 1633  
Delta R.T. 0.000 min  
Lab File: BN038113.D  
Acq: 04 Nov 2025 12:56

Tgt Ion:284 Resp: 6880  
Ion Ratio Lower Upper  
284 100  
142 38.7 30.5 45.7  
249 29.9 23.5 35.3





#23

Atrazine

Concen: 0.258 ng

RT: 16.652 min Scan# 1645

Delta R.T. 0.000 min

Lab File: BN038113.D

Acq: 04 Nov 2025 12:56

Instrument :

BNA\_N

ClientSampleId :

PB170381BSD

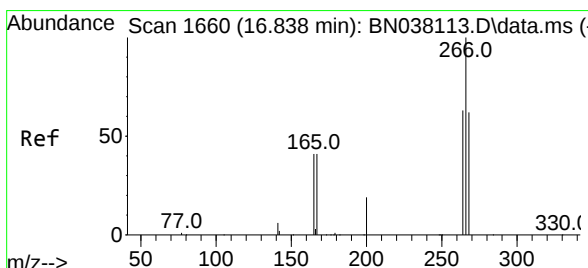
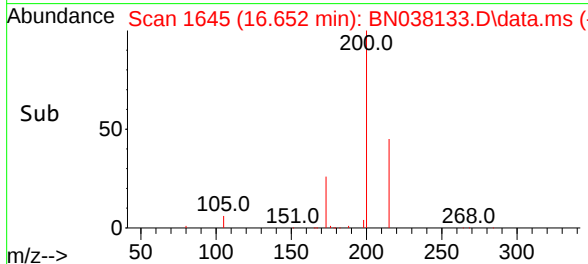
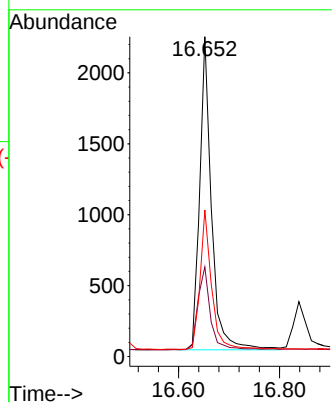
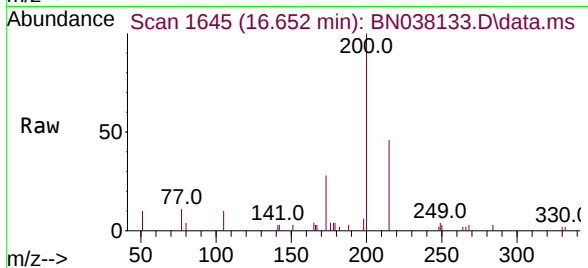
Tgt Ion:200 Resp: 3562

Ion Ratio Lower Upper

200 100

173 28.0 21.4 32.2

215 45.8 36.7 55.1



#24

Pentachlorophenol

Concen: 0.368 ng

RT: 16.838 min Scan# 1660

Delta R.T. 0.000 min

Lab File: BN038113.D

Acq: 04 Nov 2025 12:56

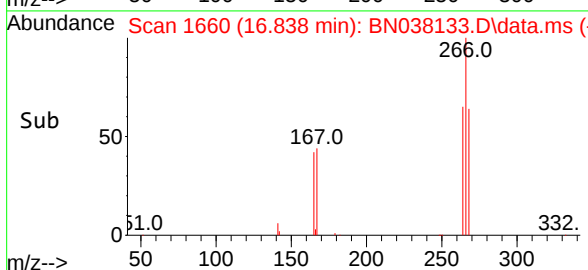
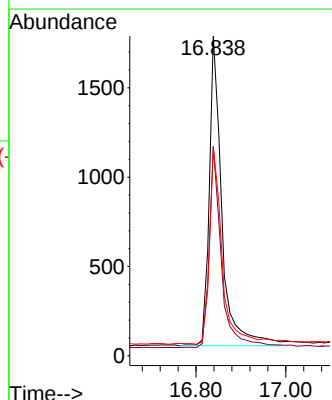
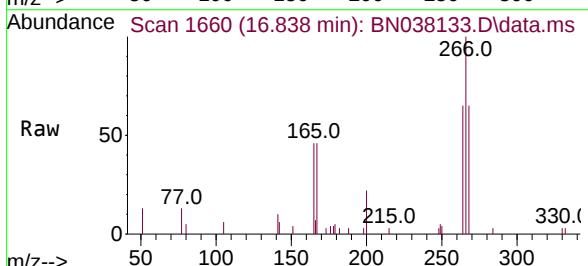
Tgt Ion:266 Resp: 3398

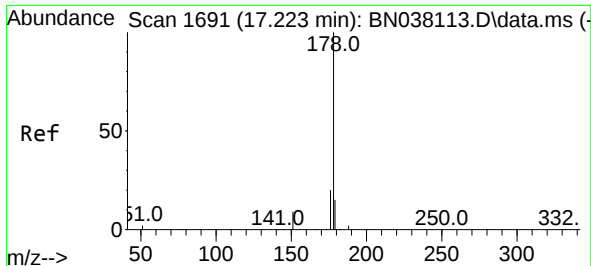
Ion Ratio Lower Upper

266 100

264 63.1 49.3 73.9

268 63.3 50.6 75.8

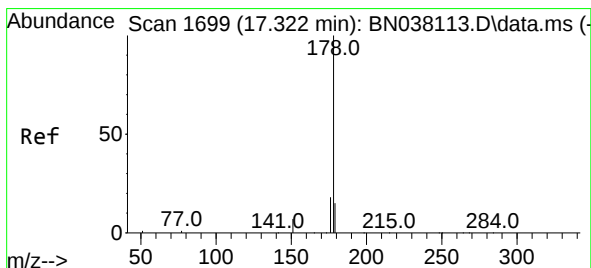
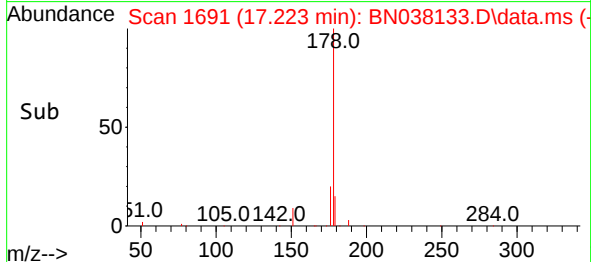
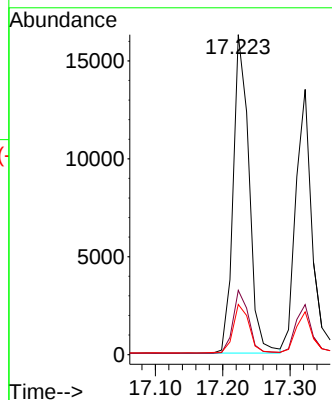
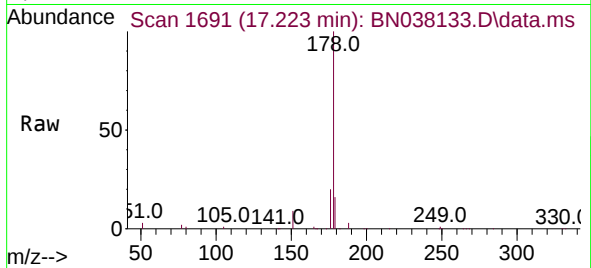




#25  
Phenanthrene  
Concen: 0.291 ng  
RT: 17.223 min Scan# 1691  
Delta R.T. 0.000 min  
Lab File: BN038113.D  
Acq: 04 Nov 2025 12:56

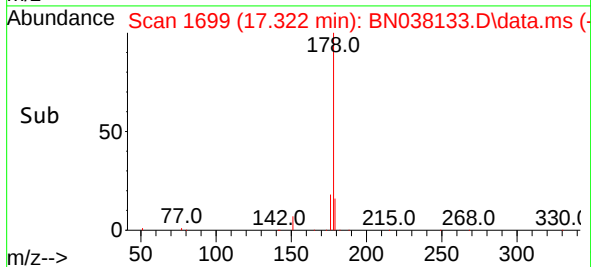
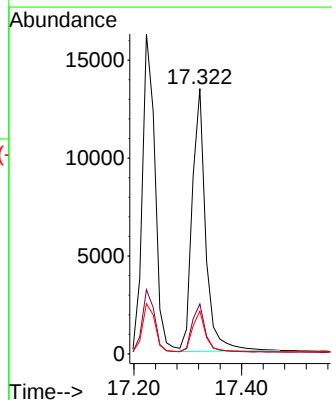
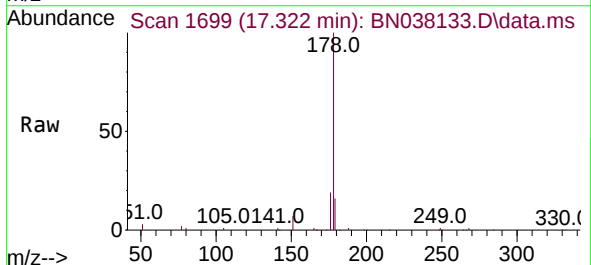
Instrument :  
BNA\_N  
ClientSampleId :  
PB170381BSD

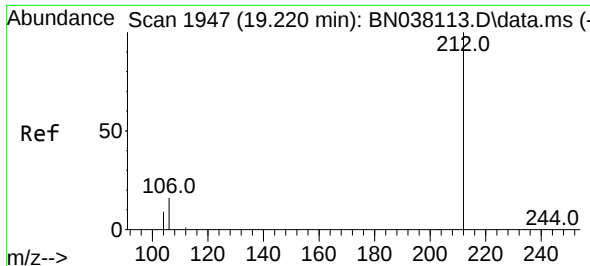
Tgt Ion:178 Resp: 26605  
Ion Ratio Lower Upper  
178 100  
176 19.5 15.5 23.3  
179 15.5 12.2 18.4



#26  
Anthracene  
Concen: 0.291 ng  
RT: 17.322 min Scan# 1699  
Delta R.T. 0.000 min  
Lab File: BN038113.D  
Acq: 04 Nov 2025 12:56

Tgt Ion:178 Resp: 23247  
Ion Ratio Lower Upper  
178 100  
176 18.5 14.9 22.3  
179 15.4 11.8 17.8

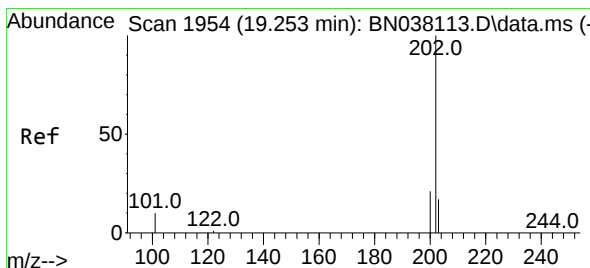
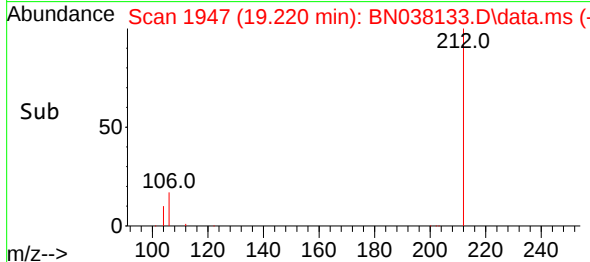
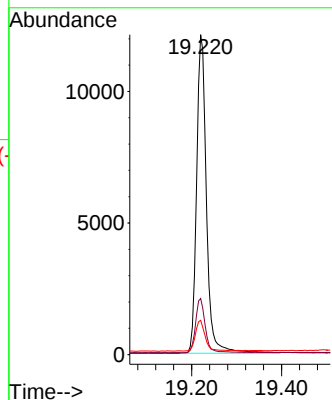
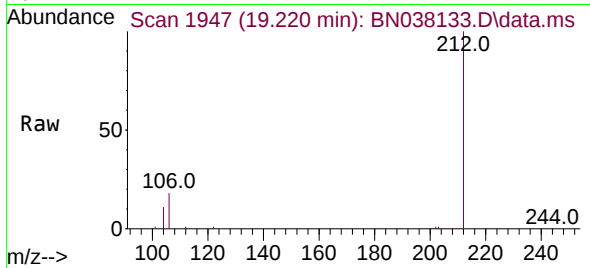




#27  
Fluoranthene-d10  
Concen: 0.254 ng  
RT: 19.220 min Scan# 1947  
Delta R.T. 0.000 min  
Lab File: BN038113.D  
Acq: 04 Nov 2025 12:56

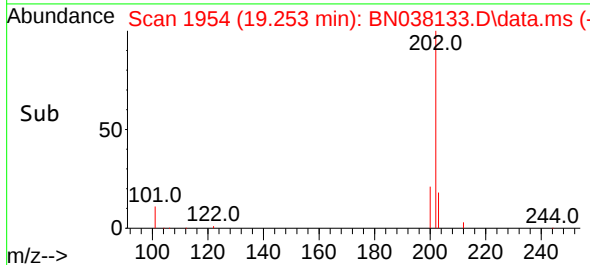
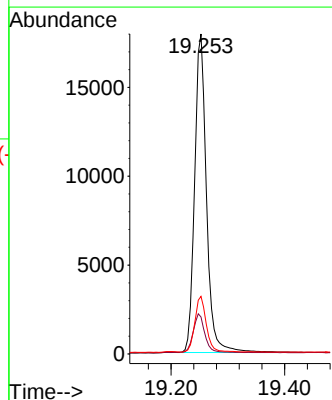
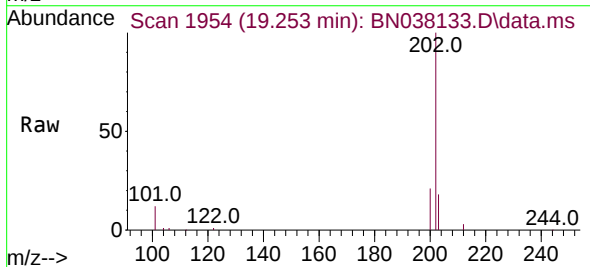
Instrument :  
BNA\_N  
ClientSampleId :  
PB170381BSD

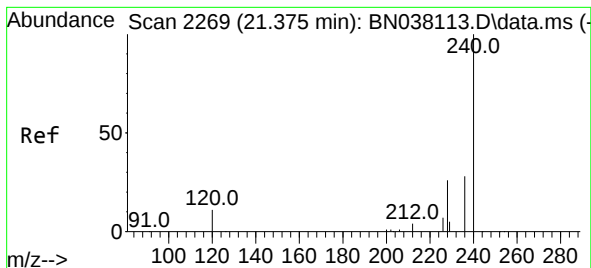
Tgt Ion:212 Resp: 18424  
Ion Ratio Lower Upper  
212 100  
106 16.8 12.6 19.0  
104 9.5 7.1 10.7



#28  
Fluoranthene  
Concen: 0.255 ng  
RT: 19.253 min Scan# 1954  
Delta R.T. 0.000 min  
Lab File: BN038133.D  
Acq: 04 Nov 2025 12:56

Tgt Ion:202 Resp: 25972  
Ion Ratio Lower Upper  
202 100  
101 11.9 9.4 14.2  
203 16.9 13.4 20.2





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.375 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN038133.D

Acq: 04 Nov 2025 12:56

Instrument :

BNA\_N

ClientSampleId :

PB170381BSD

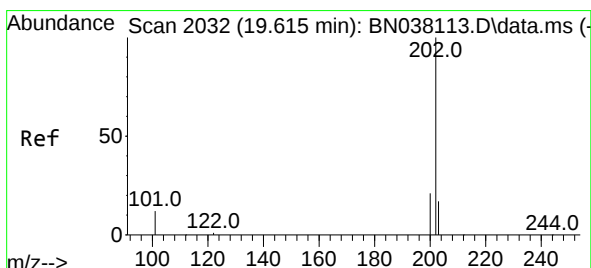
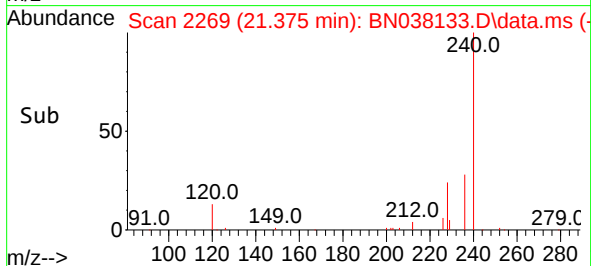
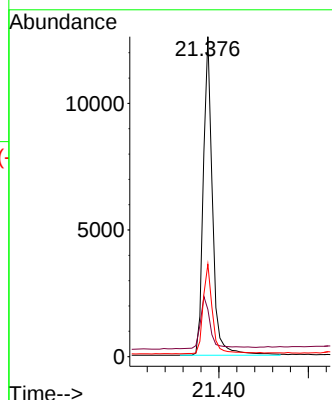
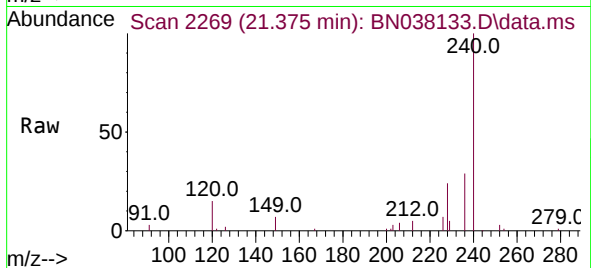
Tgt Ion:240 Resp: 18053

Ion Ratio Lower Upper

240 100

120 14.7 10.7 16.1

236 28.9 23.1 34.7



#30

Pyrene

Concen: 0.314 ng

RT: 19.615 min Scan# 2032

Delta R.T. 0.005 min

Lab File: BN038133.D

Acq: 04 Nov 2025 12:56

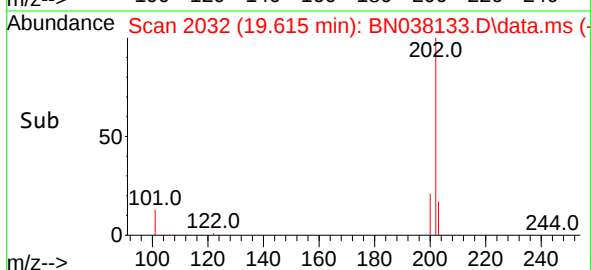
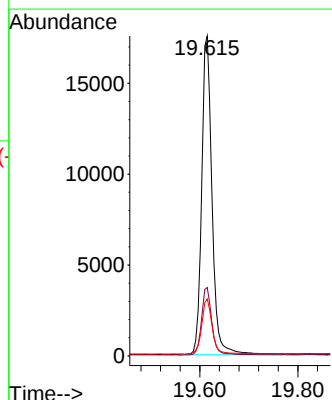
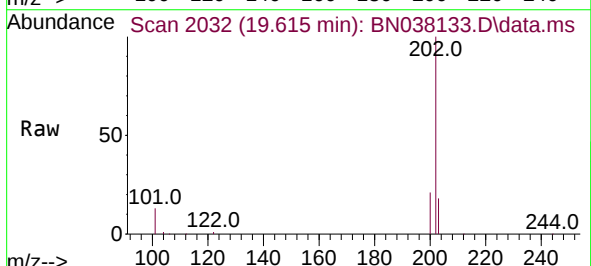
Tgt Ion:202 Resp: 25592

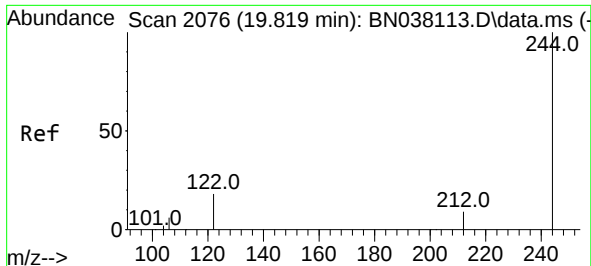
Ion Ratio Lower Upper

202 100

200 21.0 16.7 25.1

203 17.4 14.2 21.2

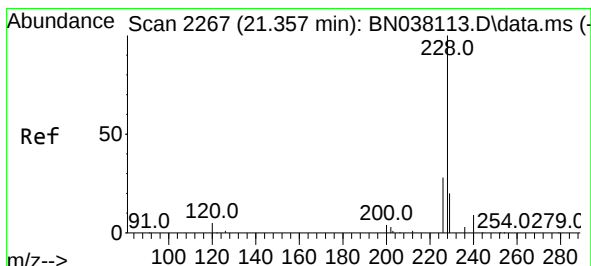
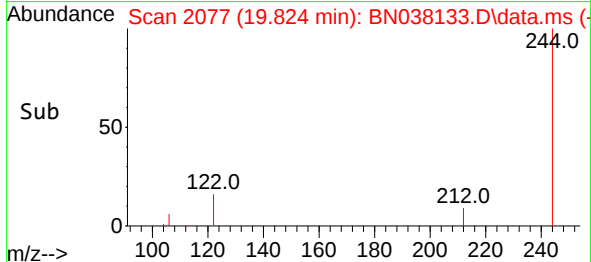
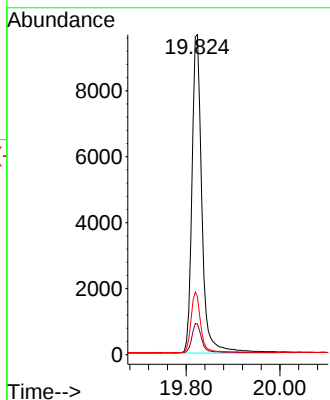
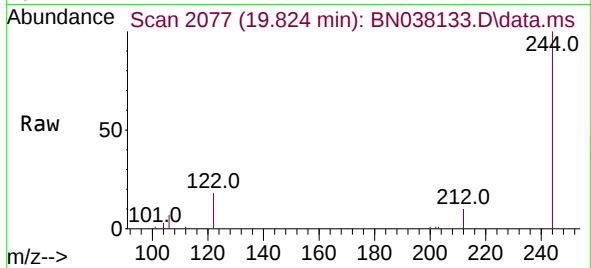




#31  
 Terphenyl-d14  
 Concen: 0.363 ng  
 RT: 19.824 min Scan# 2076  
 Delta R.T. 0.005 min  
 Lab File: BN038113.D  
 Acq: 04 Nov 2025 12:56

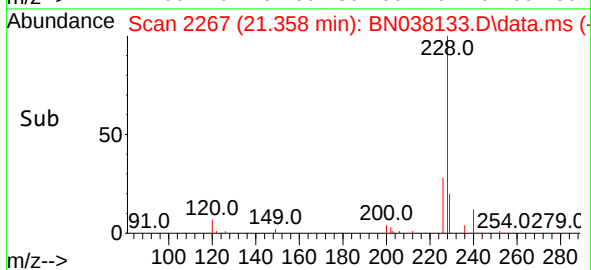
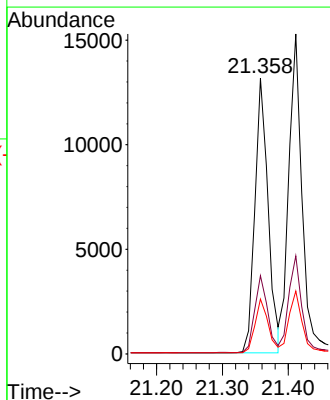
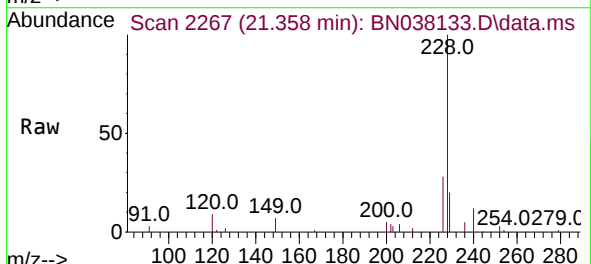
Instrument :  
 BNA\_N  
 ClientSampleId :  
 PB170381BSD

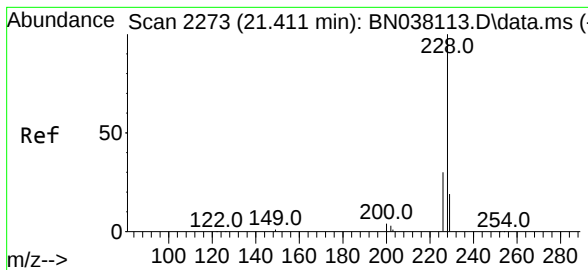
Tgt Ion:244 Resp: 14219  
 Ion Ratio Lower Upper  
 244 100  
 212 9.6 7.8 11.6  
 122 18.1 15.2 22.8



#32  
 Benzo(a)anthracene  
 Concen: 0.285 ng  
 RT: 21.358 min Scan# 2267  
 Delta R.T. 0.000 min  
 Lab File: BN038113.D  
 Acq: 04 Nov 2025 12:56

Tgt Ion:228 Resp: 18334  
 Ion Ratio Lower Upper  
 228 100  
 226 28.4 22.2 33.4  
 229 19.9 15.8 23.8





#33

Chrysene

Concen: 0.311 ng

RT: 21.411 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN038113.D

Acq: 04 Nov 2025 12:56

Instrument :

BNA\_N

ClientSampleId :

PB170381BSD

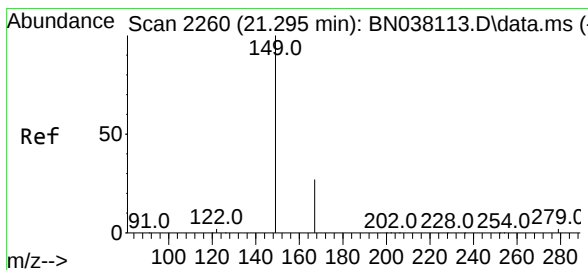
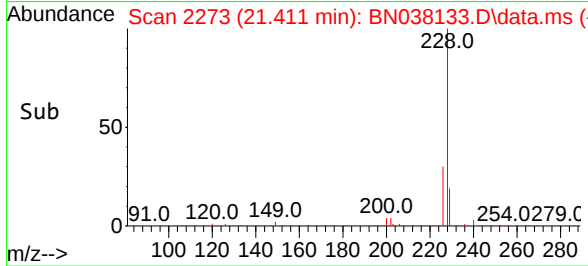
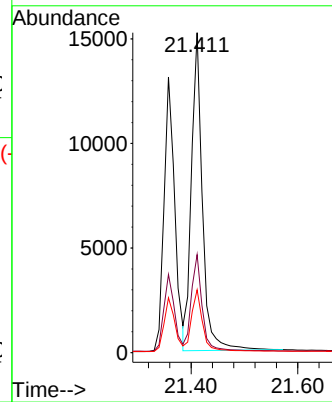
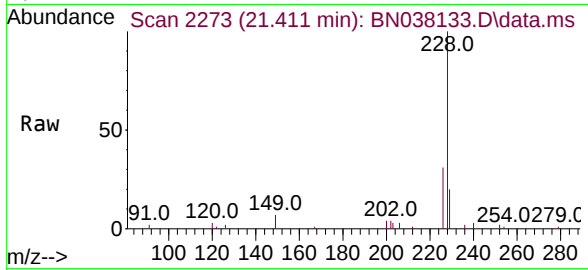
Tgt Ion:228 Resp: 21765

Ion Ratio Lower Upper

228 100

226 30.6 24.3 36.5

229 19.6 15.7 23.5



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.227 ng

RT: 21.295 min Scan# 2260

Delta R.T. 0.000 min

Lab File: BN038113.D

Acq: 04 Nov 2025 12:56

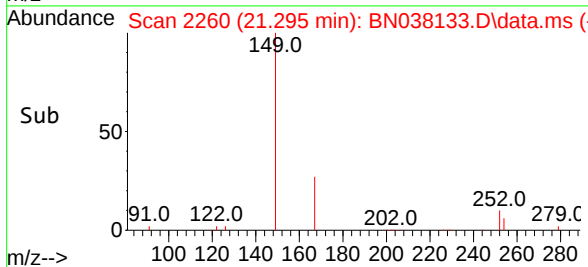
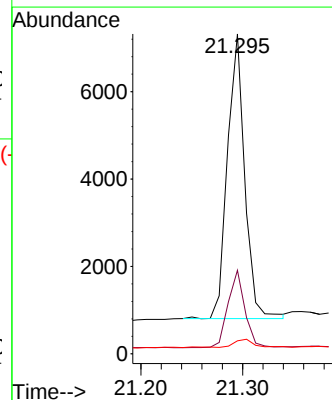
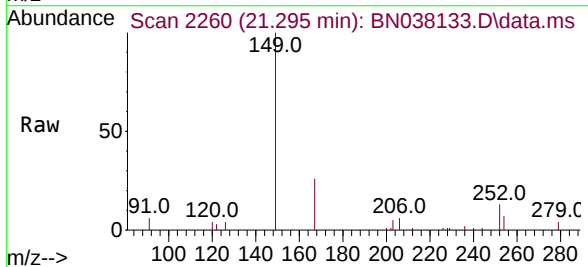
Tgt Ion:149 Resp: 7715

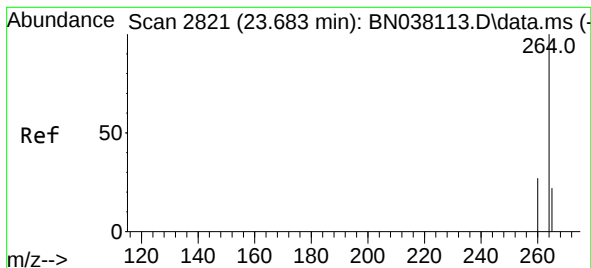
Ion Ratio Lower Upper

149 100

167 27.0 21.1 31.7

279 3.6 2.9 4.3





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.683 min Scan# 2821

Delta R.T. 0.003 min

Lab File: BN038113.D

Acq: 04 Nov 2025 12:56

Instrument :

BNA\_N

ClientSampleId :

PB170381BSD

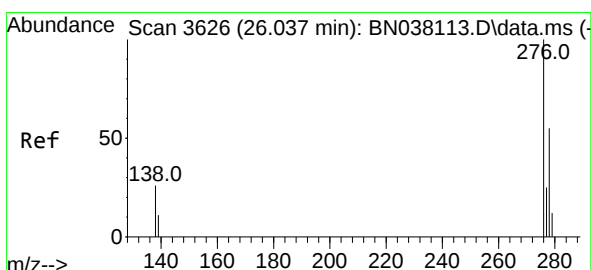
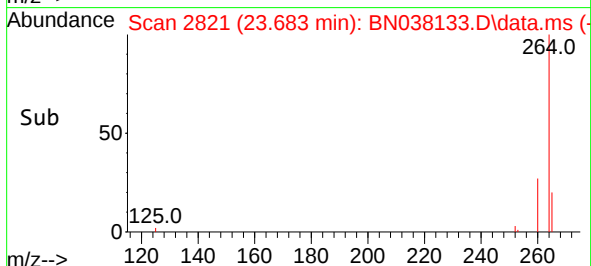
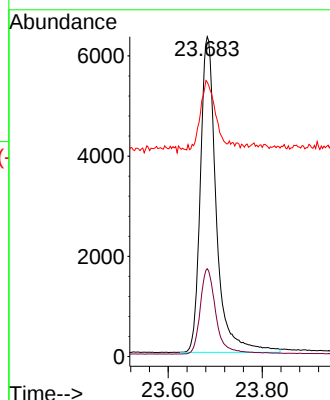
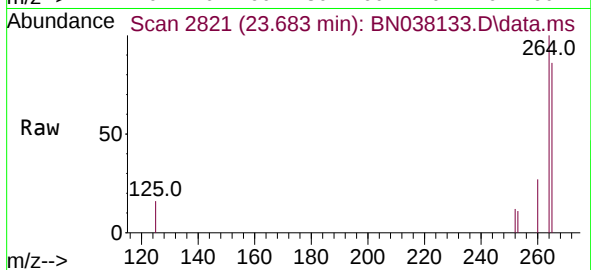
Tgt Ion:264 Resp: 14856

Ion Ratio Lower Upper

264 100

260 27.5 21.8 32.8

265 85.8 68.6 102.8



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.315 ng

RT: 26.037 min Scan# 3626

Delta R.T. 0.003 min

Lab File: BN038113.D

Acq: 04 Nov 2025 12:56

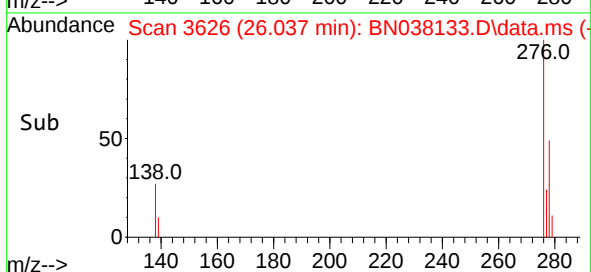
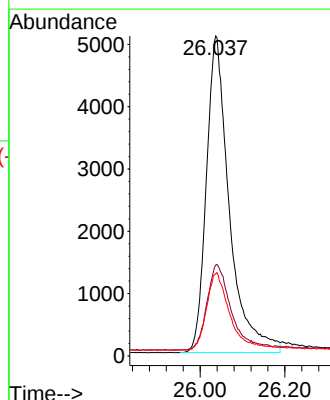
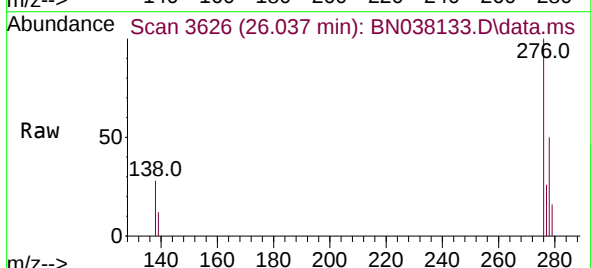
Tgt Ion:276 Resp: 19208

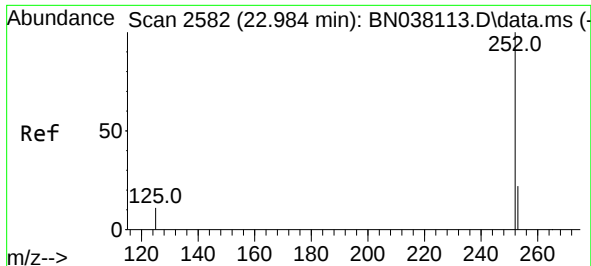
Ion Ratio Lower Upper

276 100

138 28.0 21.4 32.0

277 25.2 19.2 28.8

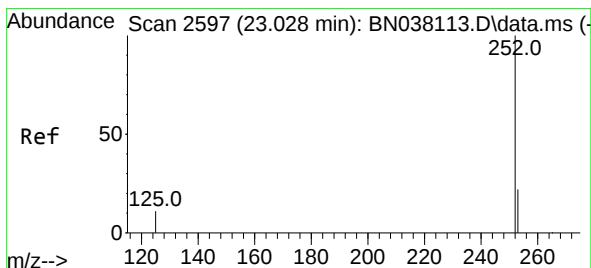
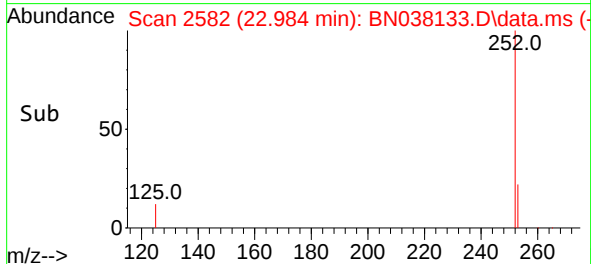
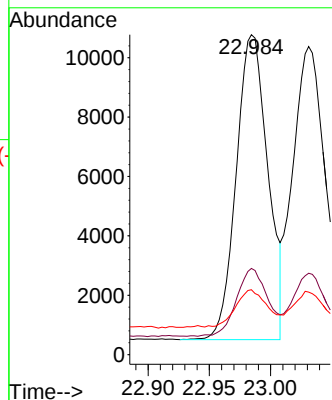
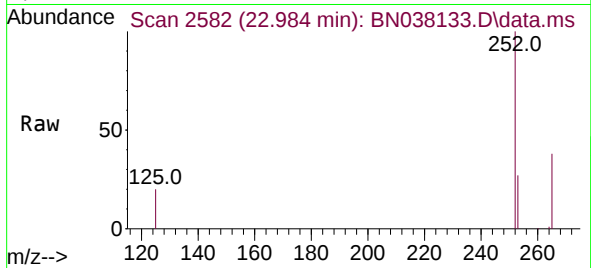




#37  
Benzo(b)fluoranthene  
Concen: 0.290 ng  
RT: 22.984 min Scan# 21  
Delta R.T. 0.003 min  
Lab File: BN038133.D  
Acq: 04 Nov 2025 12:56

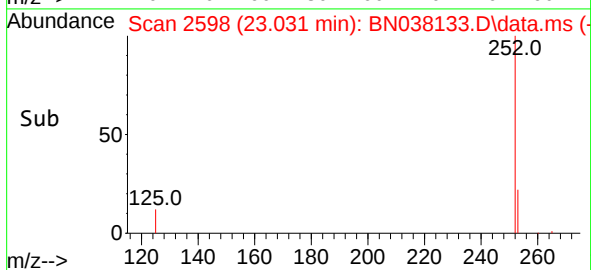
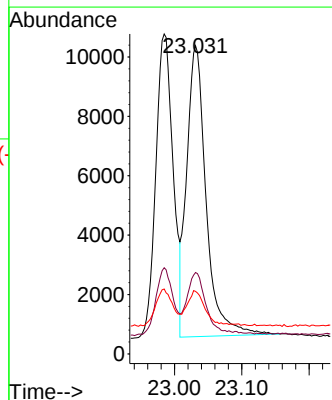
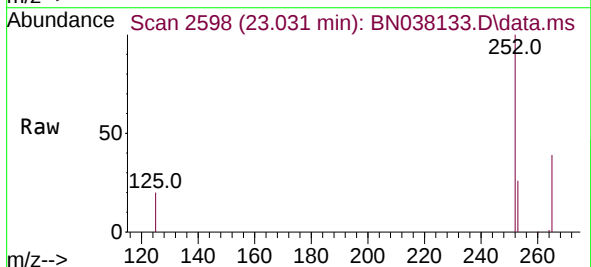
Instrument :  
BNA\_N  
ClientSampleId :  
PB170381BSD

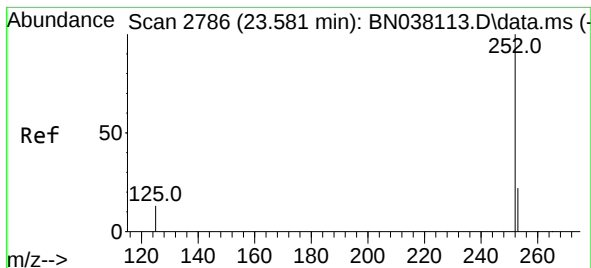
Tgt Ion:252 Resp: 18434  
Ion Ratio Lower Upper  
252 100  
253 26.9 20.9 31.3  
125 20.3 14.1 21.1



#38  
Benzo(k)fluoranthene  
Concen: 0.308 ng  
RT: 23.031 min Scan# 2598  
Delta R.T. 0.003 min  
Lab File: BN038133.D  
Acq: 04 Nov 2025 12:56

Tgt Ion:252 Resp: 19683  
Ion Ratio Lower Upper  
252 100  
253 26.4 21.2 31.8  
125 20.3 14.6 22.0





#39

Benzo(a)pyrene

Concen: 0.296 ng

RT: 23.581 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN038113.D

Acq: 04 Nov 2025 12:56

Instrument :

BNA\_N

ClientSampleId :

PB170381BSD

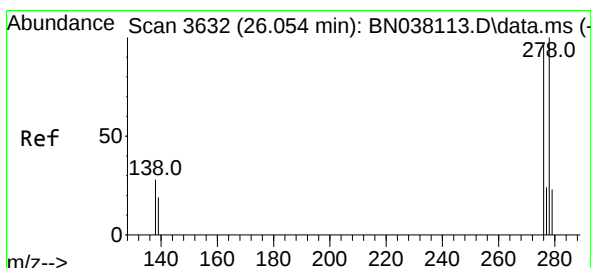
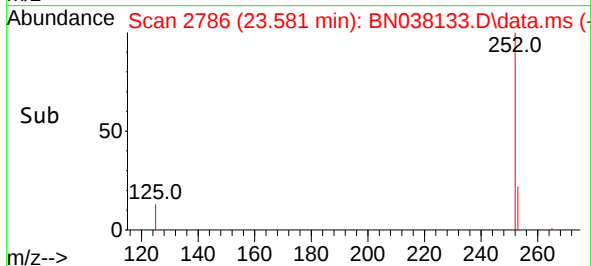
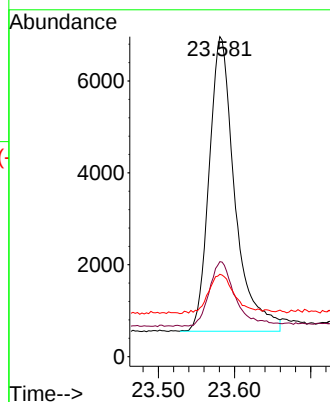
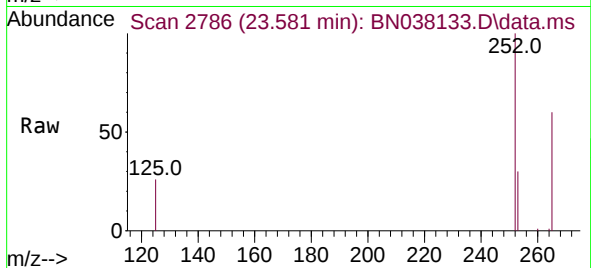
Tgt Ion:252 Resp: 15027

Ion Ratio Lower Upper

252 100

253 29.7 23.1 34.7

125 25.7 18.6 28.0



#40

Dibenzo(a,h)anthracene

Concen: 0.315 ng

RT: 26.054 min Scan# 3632

Delta R.T. 0.006 min

Lab File: BN038113.D

Acq: 04 Nov 2025 12:56

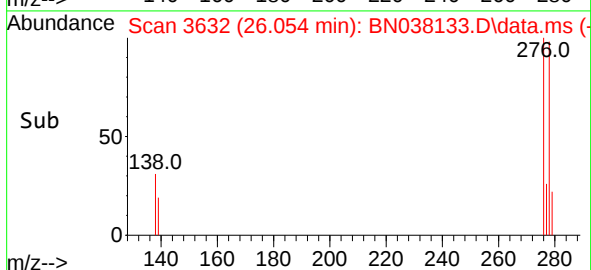
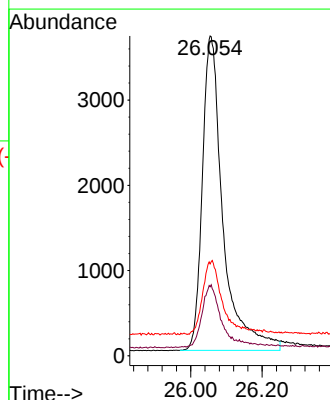
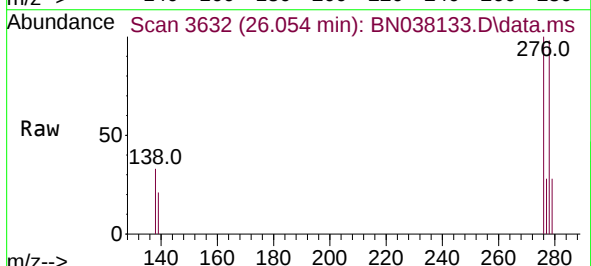
Tgt Ion:278 Resp: 14795

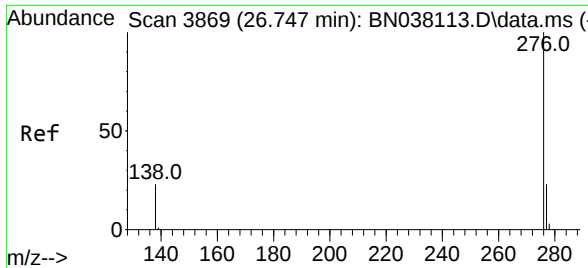
Ion Ratio Lower Upper

278 100

139 21.6 17.6 26.4

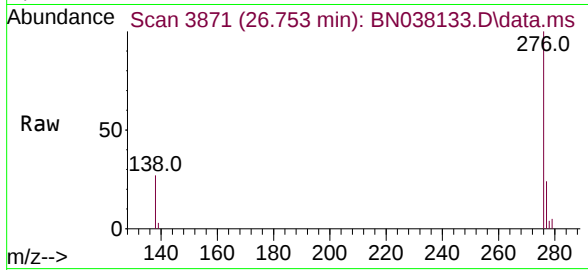
279 28.7 22.6 33.8



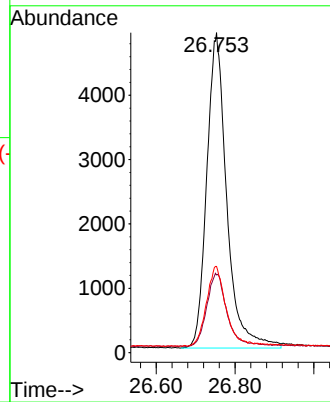
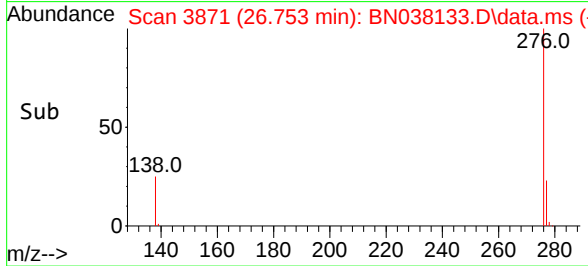


#41  
Benzo(g,h,i)perylene  
Concen: 0.321 ng  
RT: 26.753 min Scan# 38  
Delta R.T. 0.003 min  
Lab File: BN038133.D  
Acq: 04 Nov 2025 12:56

Instrument :  
BNA\_N  
ClientSampleId :  
PB170381BSD



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 276   | Resp: | 17207 |
| Ion      | Ratio | Lower | Upper |
| 276      | 100   |       |       |
| 277      | 24.3  | 19.7  | 29.5  |
| 138      | 26.9  | 20.2  | 30.4  |





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

## Manual Integration Report

|           |          |            |       |
|-----------|----------|------------|-------|
| Sequence: | BN102825 | Instrument | BNA_n |
|-----------|----------|------------|-------|

| Sample ID  | File ID    | Parameter            | Review By | Review On                | Supervised By | Supervised On            | Reason                      |
|------------|------------|----------------------|-----------|--------------------------|---------------|--------------------------|-----------------------------|
| SSTDICC0.8 | BN038114.D | Benzo(b)fluoranthene | rahul     | 10/29/2025<br>9:43:43 AM | mohammad      | 10/30/2025<br>5:29:45 AM | Peak Integrated by Software |



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

## Manual Integration Report

Sequence:

BN110425

Instrument

BNA\_n

Sample ID

File ID

Parameter

Review By

Review On

Supervised  
By

Supervised On

Reason

Instrument ID: **BNA\_N**

**Daily Analysis Runlog For Sequence/QC Batch ID # BN102825**

|                          |                                                  |                   |                                               |
|--------------------------|--------------------------------------------------|-------------------|-----------------------------------------------|
| Review By                | rahul                                            | Review On         | 10/28/2025 3:41:07 PM                         |
| Supervise By             | mohammad                                         | Supervise On      | 10/30/2025 5:29:45 AM                         |
| SubDirectory             | BN102825                                         | HP Acquire Method | BNA_N, 8270_SiM HP Processing Method BN102825 |
| <b>STD. NAME</b>         | <b>STD REF.#</b>                                 |                   |                                               |
| Tune/Reschk              | SP6875                                           |                   |                                               |
| Initial Calibration Stds | SP6897,SP6898,SP6900,SP6901,SP6902,SP6903,SP6904 |                   |                                               |
| CCC                      | SP6902                                           |                   |                                               |
| Internal Standard/PEM    | SP6830,1ul/100ul sample                          |                   |                                               |
| ICV/I.BLK                | SP6906                                           |                   |                                               |
| Surrogate Standard       |                                                  |                   |                                               |
| MS/MSD Standard          |                                                  |                   |                                               |
| LCS Standard             |                                                  |                   |                                               |

| Sr# | SampleId    | Data File Name | Date-Time         | Operator | Status |
|-----|-------------|----------------|-------------------|----------|--------|
| 1   | DFTPP       | BN038110.D     | 28 Oct 2025 12:05 | RC/JU    | Ok     |
| 2   | SSTDICC0.1  | BN038111.D     | 28 Oct 2025 13:00 | RC/JU    | Ok     |
| 3   | SSTDICC0.2  | BN038112.D     | 28 Oct 2025 13:36 | RC/JU    | Ok     |
| 4   | SSTDICCC0.4 | BN038113.D     | 28 Oct 2025 14:13 | RC/JU    | Ok     |
| 5   | SSTDICC0.8  | BN038114.D     | 28 Oct 2025 14:49 | RC/JU    | Ok,M   |
| 6   | SSTDICC1.6  | BN038115.D     | 28 Oct 2025 15:25 | RC/JU    | Ok     |
| 7   | SSTDICC3.2  | BN038116.D     | 28 Oct 2025 16:02 | RC/JU    | Ok     |
| 8   | SSTDICC5.0  | BN038117.D     | 28 Oct 2025 16:38 | RC/JU    | Ok     |
| 9   | SSTDICV0.4  | BN038118.D     | 28 Oct 2025 17:51 | RC/JU    | Ok     |
| 10  | PB170167BL  | BN038119.D     | 28 Oct 2025 19:04 | RC/JU    | Not Ok |

M : Manual Integration

Instrument ID: **BNA\_N**

**Daily Analysis Runlog For Sequence/QC Batch ID # BN110425**

|                          |                                                  |                   |                                               |
|--------------------------|--------------------------------------------------|-------------------|-----------------------------------------------|
| Review By                | rahul                                            | Review On         | 11/5/2025 10:39:28 AM                         |
| Supervise By             | Jagrut                                           | Supervise On      | 11/5/2025 2:05:23 PM                          |
| SubDirectory             | BN110425                                         | HP Acquire Method | BNA_N, 8270_SiM HP Processing Method BN102825 |
| <b>STD. NAME</b>         | <b>STD REF.#</b>                                 |                   |                                               |
| Tune/Reschk              | SP6875                                           |                   |                                               |
| Initial Calibration Stds | SP6897,SP6898,SP6900,SP6901,SP6902,SP6903,SP6904 |                   |                                               |
| CCC                      | SP6902                                           |                   |                                               |
| Internal Standard/PEM    | SP6830,1ul/100ul sample                          |                   |                                               |
| ICV/I.BLK                | SP6906                                           |                   |                                               |
| Surrogate Standard       |                                                  |                   |                                               |
| MS/MSD Standard          |                                                  |                   |                                               |
| LCS Standard             |                                                  |                   |                                               |

| Sr# | SampleId    | Data File Name | Date-Time         | Operator | Status   |
|-----|-------------|----------------|-------------------|----------|----------|
| 1   | DFTPP       | BN038129.D     | 04 Nov 2025 10:00 | RC/JU    | Ok       |
| 2   | SSTDCCC0.4  | BN038130.D     | 04 Nov 2025 10:40 | RC/JU    | Ok       |
| 3   | PB170381BL  | BN038131.D     | 04 Nov 2025 11:43 | RC/JU    | Ok       |
| 4   | PB170381BS  | BN038132.D     | 04 Nov 2025 12:19 | RC/JU    | Ok       |
| 5   | PB170381BSD | BN038133.D     | 04 Nov 2025 12:56 | RC/JU    | Ok       |
| 6   | Q3494-01    | BN038134.D     | 04 Nov 2025 13:32 | RC/JU    | Ok       |
| 7   | Q3525-01    | BN038135.D     | 04 Nov 2025 14:08 | RC/JU    | Dilution |
| 8   | Q3525-02    | BN038136.D     | 04 Nov 2025 14:45 | RC/JU    | Ok       |
| 9   | Q3525-03    | BN038137.D     | 04 Nov 2025 15:21 | RC/JU    | Ok       |
| 10  | Q3526-01    | BN038138.D     | 04 Nov 2025 15:57 | RC/JU    | Ok       |
| 11  | Q3526-02    | BN038139.D     | 04 Nov 2025 16:34 | RC/JU    | Ok       |
| 12  | Q3526-03    | BN038140.D     | 04 Nov 2025 17:10 | RC/JU    | Ok       |
| 13  | Q3526-04    | BN038141.D     | 04 Nov 2025 17:46 | RC/JU    | Ok       |
| 14  | Q3527-01    | BN038142.D     | 04 Nov 2025 18:22 | RC/JU    | Ok       |
| 15  | Q3527-02    | BN038143.D     | 04 Nov 2025 18:59 | RC/JU    | Ok       |
| 16  | Q3525-01DL  | BN038144.D     | 04 Nov 2025 19:35 | RC/JU    | Ok       |
| 17  | SSTDCCC0.4  | BN038145.D     | 04 Nov 2025 20:12 | RC/JU    | Ok       |

M : Manual Integration

Instrument ID: BNA\_N

**Daily Analysis Runlog For Sequence/QC Batch ID # BN102825**

|              |          |                   |                                           |
|--------------|----------|-------------------|-------------------------------------------|
| Review By    | rahul    | Review On         | 10/28/2025 3:41:07 PM                     |
| Supervise By | mohammad | Supervise On      | 10/30/2025 5:29:45 AM                     |
| SubDirectory | BN102825 | HP Acquire Method | BNA_N, 8270_HP Processing Method BN102825 |

| STD. NAME                | STD REF.#                                        |
|--------------------------|--------------------------------------------------|
| Tune/Reschk              | SP6875                                           |
| Initial Calibration Stds | SP6897,SP6898,SP6900,SP6901,SP6902,SP6903,SP6904 |
| CCC                      | SP6902                                           |
| Internal Standard/PEM    | SP6830,1ul/100ul sample                          |
| ICV/I.BLK                | SP6906                                           |
| Surrogate Standard       |                                                  |
| MS/MSD Standard          |                                                  |
| LCS Standard             |                                                  |

| Sr# | SampleID    | ClientID    | Data File Name | Date-Time         | Comment                                            | Operator | Status |
|-----|-------------|-------------|----------------|-------------------|----------------------------------------------------|----------|--------|
| 1   | DFTPP       | DFTPP       | BN038110.D     | 28 Oct 2025 12:05 |                                                    | RC/JU    | Ok     |
| 2   | SSTDICC0.1  | SSTDICC0.1  | BN038111.D     | 28 Oct 2025 13:00 |                                                    | RC/JU    | Ok     |
| 3   | SSTDICC0.2  | SSTDICC0.2  | BN038112.D     | 28 Oct 2025 13:36 |                                                    | RC/JU    | Ok     |
| 4   | SSTDICCC0.4 | SSTDICCC0.4 | BN038113.D     | 28 Oct 2025 14:13 | compound #20 kept on LR                            | RC/JU    | Ok     |
| 5   | SSTDICC0.8  | SSTDICC0.8  | BN038114.D     | 28 Oct 2025 14:49 |                                                    | RC/JU    | Ok,M   |
| 6   | SSTDICC1.6  | SSTDICC1.6  | BN038115.D     | 28 Oct 2025 15:25 |                                                    | RC/JU    | Ok     |
| 7   | SSTDICC3.2  | SSTDICC3.2  | BN038116.D     | 28 Oct 2025 16:02 |                                                    | RC/JU    | Ok     |
| 8   | SSTDICC5.0  | SSTDICC5.0  | BN038117.D     | 28 Oct 2025 16:38 | Compound #20 removed from 5PPM                     | RC/JU    | Ok     |
| 9   | SSTDICV0.4  | ICVBN102825 | BN038118.D     | 28 Oct 2025 17:51 |                                                    | RC/JU    | Ok     |
| 10  | PB170167BL  | PB170167BL  | BN038119.D     | 28 Oct 2025 19:04 | END CCC missing, Analyzed for Contamination check. | RC/JU    | Not Ok |

M : Manual Integration

Instrument ID: BNA\_N

**Daily Analysis Runlog For Sequence/QC Batch ID # BN110425**

|              |          |                   |                                           |
|--------------|----------|-------------------|-------------------------------------------|
| Review By    | rahul    | Review On         | 11/5/2025 10:39:28 AM                     |
| Supervise By | Jagrut   | Supervise On      | 11/5/2025 2:05:23 PM                      |
| SubDirectory | BN110425 | HP Acquire Method | BNA_N, 8270_HP Processing Method BN102825 |

| STD. NAME                | STD REF.#                                        |
|--------------------------|--------------------------------------------------|
| Tune/Reschk              | SP6875                                           |
| Initial Calibration Stds | SP6897,SP6898,SP6900,SP6901,SP6902,SP6903,SP6904 |
| CCC                      | SP6902                                           |
| Internal Standard/PEM    | SP6830,1ul/100ul sample                          |
| ICV/I.BLK                | SP6906                                           |
| Surrogate Standard       |                                                  |
| MS/MSD Standard          |                                                  |
| LCS Standard             |                                                  |

| Sr# | SampleID    | ClientID           | Data File Name | Date-Time         | Comment                            | Operator | Status   |
|-----|-------------|--------------------|----------------|-------------------|------------------------------------|----------|----------|
| 1   | DFTPP       | DFTPP              | BN038129.D     | 04 Nov 2025 10:00 |                                    | RC/JU    | Ok       |
| 2   | SSTDCCC0.4  | SSTDCCC0.4         | BN038130.D     | 04 Nov 2025 10:40 |                                    | RC/JU    | Ok       |
| 3   | PB170381BL  | PB170381BL         | BN038131.D     | 04 Nov 2025 11:43 |                                    | RC/JU    | Ok       |
| 4   | PB170381BS  | PB170381BS         | BN038132.D     | 04 Nov 2025 12:19 |                                    | RC/JU    | Ok       |
| 5   | PB170381BSD | PB170381BSD        | BN038133.D     | 04 Nov 2025 12:56 | Recovery fail low for 1,4-Dioxane. | RC/JU    | Ok       |
| 6   | Q3494-01    | MW3                | BN038134.D     | 04 Nov 2025 13:32 |                                    | RC/JU    | Ok       |
| 7   | Q3525-01    | RW5-SP100-20251030 | BN038135.D     | 04 Nov 2025 14:08 | Need 2X Dilution                   | RC/JU    | Dilution |
| 8   | Q3525-02    | RW5-SP201-20251030 | BN038136.D     | 04 Nov 2025 14:45 |                                    | RC/JU    | Ok       |
| 9   | Q3525-03    | RW5-SP303-20251030 | BN038137.D     | 04 Nov 2025 15:21 |                                    | RC/JU    | Ok       |
| 10  | Q3526-01    | RW7-SP100-20251030 | BN038138.D     | 04 Nov 2025 15:57 |                                    | RC/JU    | Ok       |
| 11  | Q3526-02    | RW7-SP201-20251030 | BN038139.D     | 04 Nov 2025 16:34 |                                    | RC/JU    | Ok       |
| 12  | Q3526-03    | RW7-SP302-20251030 | BN038140.D     | 04 Nov 2025 17:10 |                                    | RC/JU    | Ok       |
| 13  | Q3526-04    | RW7-SP303-20251030 | BN038141.D     | 04 Nov 2025 17:46 |                                    | RC/JU    | Ok       |
| 14  | Q3527-01    | RW8-SP100-20251030 | BN038142.D     | 04 Nov 2025 18:22 |                                    | RC/JU    | Ok       |
| 15  | Q3527-02    | RW8-SP303-20251030 | BN038143.D     | 04 Nov 2025 18:59 |                                    | RC/JU    | Ok       |
| 16  | Q3525-01DL  | RW5-SP100-20251030 | BN038144.D     | 04 Nov 2025 19:35 |                                    | RC/JU    | Ok       |
| 17  | SSTDCCC0.4  | SSTDCCC0.4EC       | BN038145.D     | 04 Nov 2025 20:12 |                                    | RC/JU    | Ok       |

M : Manual Integration

SOP ID: M3510C,3580A-Extraction SVOC-21

Clean Up SOP #: N/A

Matrix : Water

Weigh By: N/A

Balance check: N/A

Balance ID: N/A

pH Strip Lot#: E3953

Extraction By: RS

Filter By: RS

pH Meter ID: N/A

Hood ID: 4,6,7

Extraction Start Date : 11/03/2025

Extraction Start Time : 11:20

Extraction End Date : 11/03/2025

Extraction End Time : 16:20

Concentration By: EH

Supervisor By : RUPESH

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

| Standard Name | MLS USED | Concentration ug/mL | STD REF. # FROM LOG |
|---------------|----------|---------------------|---------------------|
| Spike Sol 1   | 1.0ML    | 0.4 PPM             | SP6876              |
| Surrogate     | 1.0ML    | 0.4 PPM             | SP6873              |
| 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            | E3980      |
| Baked Na2SO4       | N/A            | EP2655     |
| H2SO4 1:1          | N/A            | EP2610     |
| 10N NaOH           | N/A            | EP2609     |
| 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:

PH Adjusted TO &lt;2 with 1:1 H2SO4 &amp; &gt;11with 10N NAOH ,1.5ML Vial Lot #2210443.

KD Bath ID: WATER BATH-1

Envap ID: NEVAP-02

KD Bath Temperature: 60 °C

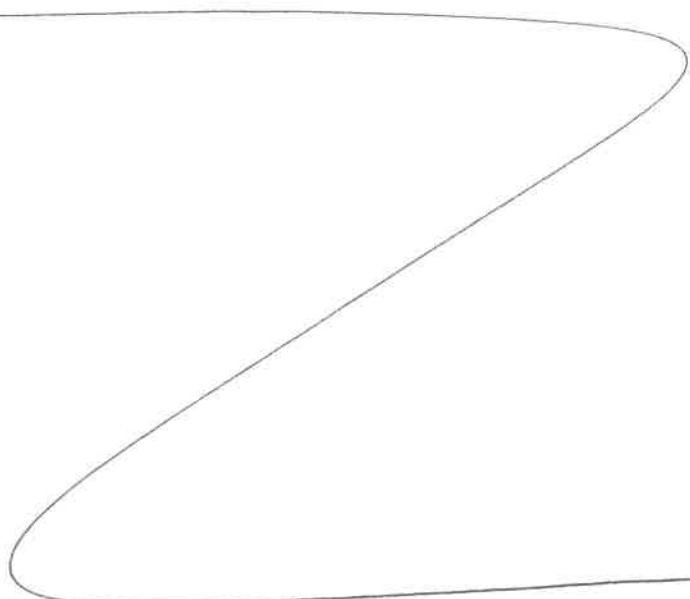
Envap Temperature: 40 °C

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|-------------|-----------------------------------------|----------------------|
| 11/3/25     | RS (Ext Lab)                            | Relsvoc              |
| 16:25       | Preparation Group                       | Analysis Group       |

Analytical Method: M3510C,3580A-Extraction SVOC-21

Concentration Date: 11/03/2025

| Sample ID       | Client Sample ID   | Test               | g / mL | PH | Surr/Spike By: |            | Final Vol.<br>(mL) | JarID | Comments | Prep<br>Pos |
|-----------------|--------------------|--------------------|--------|----|----------------|------------|--------------------|-------|----------|-------------|
|                 |                    |                    |        |    | AddedBy        | VerifiedBy |                    |       |          |             |
| PB170381BL      | SBLK381            | SVOC-SIMGrou<br>p1 | 1000   | 6  | RUPESH         | ritesh     | 1                  |       |          | SEP-1       |
| PB170381BS      | SLCS381            | SVOC-SIMGrou<br>p1 | 1000   | 6  | RUPESH         | ritesh     | 1                  |       |          | 2           |
| PB170381BS<br>D | SLCSD381           | SVOC-SIMGrou<br>p1 | 1000   | 6  | RUPESH         | ritesh     | 1                  |       |          | 3           |
| Q3494-01        | MW3                | SVOC-SIMGrou<br>p1 | 990    | 6  | RUPESH         | ritesh     | 1                  | D     |          | 4           |
| Q3525-01        | RW5-SP100-20251030 | SVOC-SIMGrou<br>p1 | 1000   | 6  | RUPESH         | ritesh     | 1                  |       |          | 5           |
| Q3525-02        | RW5-SP201-20251030 | SVOC-SIMGrou<br>p1 | 1000   | 6  | RUPESH         | ritesh     | 1                  |       |          | 6           |
| Q3525-03        | RW5-SP303-20251030 | SVOC-SIMGrou<br>p1 | 1000   | 6  | RUPESH         | ritesh     | 1                  |       |          | 7           |
| Q3526-01        | RW7-SP100-20251030 | SVOC-SIMGrou<br>p1 | 1000   | 6  | RUPESH         | ritesh     | 1                  |       |          | 8           |
| Q3526-02        | RW7-SP201-20251030 | SVOC-SIMGrou<br>p1 | 1000   | 6  | RUPESH         | ritesh     | 1                  |       |          | 9           |
| Q3526-03        | RW7-SP302-20251030 | SVOC-SIMGrou<br>p1 | 940    | 6  | RUPESH         | ritesh     | 1                  |       |          | 10          |
| Q3526-04        | RW7-SP303-20251030 | SVOC-SIMGrou<br>p1 | 1000   | 6  | RUPESH         | ritesh     | 1                  |       |          | 11          |
| Q3527-01        | RW8-SP100-20251030 | SVOC-SIMGrou<br>p1 | 1000   | 6  | RUPESH         | ritesh     | 1                  | D     |          | 12          |
| Q3527-02        | RW8-SP303-20251030 | SVOC-SIMGrou<br>p1 | 1000   | 6  | RUPESH         | ritesh     | 1                  | D     |          | 13          |



RS  
11/3

170381  
11:20

# WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q3526      WorkList ID : 192855      Department : Extraction      Date : 11-03-2025 11:15:08

| Sample   | Customer Sample    | Matrix | Test           | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method        |
|----------|--------------------|--------|----------------|--------------|----------|-----------------------------|--------------|---------------|
| Q3494-01 | MW3                | Water  | SVOC-SIMGroup1 | Cool 4 deg C | GENV01   | J31                         | 10/29/2025   | 8270-Modified |
| Q3525-01 | RW5-SP100-20251030 | Water  | SVOC-SIMGroup1 | Cool 4 deg C | TETR06   | A12                         | 10/30/2025   | 8270-Modified |
| Q3525-02 | RW5-SP201-20251030 | Water  | SVOC-SIMGroup1 | Cool 4 deg C | TETR06   | A12                         | 10/30/2025   | 8270-Modified |
| Q3525-03 | RW5-SP303-20251030 | Water  | SVOC-SIMGroup1 | Cool 4 deg C | TETR06   | A12                         | 10/30/2025   | 8270-Modified |
| Q3526-01 | RW7-SP100-20251030 | Water  | SVOC-SIMGroup1 | Cool 4 deg C | TETR06   | A12                         | 10/30/2025   | 8270-Modified |
| Q3526-02 | RW7-SP201-20251030 | Water  | SVOC-SIMGroup1 | Cool 4 deg C | TETR06   | A12                         | 10/30/2025   | 8270-Modified |
| Q3526-03 | RW7-SP302-20251030 | Water  | SVOC-SIMGroup1 | Cool 4 deg C | TETR06   | A12                         | 10/30/2025   | 8270-Modified |
| Q3526-04 | RW7-SP303-20251030 | Water  | SVOC-SIMGroup1 | Cool 4 deg C | TETR06   | A12                         | 10/30/2025   | 8270-Modified |
| Q3527-01 | RW8-SP100-20251030 | Water  | SVOC-SIMGroup1 | Cool 4 deg C | TETR06   | J32                         | 10/30/2025   | 8270-Modified |
| Q3527-02 | RW8-SP303-20251030 | Water  | SVOC-SIMGroup1 | Cool 4 deg C | TETR06   | J32                         | 10/30/2025   | 8270-Modified |

Date/Time 11/3/25 11:15  
Raw Sample Received by: RS (Ex-66)  
Raw Sample Relinquished by: RS (Ex-66)

Date/Time 11/3/25 11:50  
Raw Sample Received by: RS (Ex-66)  
Raw Sample Relinquished by: RS (Ex-66)

## Prep Standard - Chemical Standard Summary

**Order ID :** Q3526

**Test :** SVOC-SIMGroup1

**Prepbatch ID :** PB170381,

**Sequence ID/Qc Batch ID:** BN110425,

**Standard ID :**

EP2609,EP2610,EP2655,SP6830,SP6873,SP6875,SP6876,SP6896,SP6897,SP6898,SP6900,SP6901,SP6902,SP6903,SP6904,SP6905,SP6906,

**Chemical ID :**

1ul/100ul

sample,E3657,E3875,E3942,E3972,E3973,E3980,M6157,S10105,S11497,S11652,S11828,S12116,S12201,S12273,S12560,S12563,S12577,S12670,S12905,S13058,S13097,S13120,S13122,S13245,S13249,S13299,W 3112,



| <u>Recipe ID</u> | <u>NAME</u>                                                                  | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u>                  | <u>PipetteID</u> | <u>Supervised By</u>            |
|------------------|------------------------------------------------------------------------------|------------------------|------------------|------------------------|--------------------|---------------------------------|------------------|---------------------------------|
| 1874             | 10 N SODIUM HYDROXIDE SOLN                                                   | <a href="#">EP2609</a> | 05/07/2025       | 11/07/2025             | RUPESHKUMAR SHAH   | Extraction_SCALE_2<br>(EX-SC-2) | None             | Riteshkumar Patel<br>05/07/2025 |
| <u>FROM</u>      | 1000.00000ml of W3112 + 400.00000gram of E3657 = Final Quantity: 1000.000 ml |                        |                  |                        |                    |                                 |                  |                                 |

| <u>Recipe ID</u>                                                                               | <u>NAME</u>    | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u>                  | <u>PipetteID</u> | <u>Supervised By</u>            |
|------------------------------------------------------------------------------------------------|----------------|------------------------|------------------|------------------------|--------------------|---------------------------------|------------------|---------------------------------|
| 314                                                                                            | 1.1 H2SO4 SOLN | <a href="#">EP2610</a> | 05/07/2025       | 11/07/2025             | RUPESHKUMAR SHAH   | Extraction_SCALE_2<br>(EX-SC-2) | None             | Riteshkumar Patel<br>05/07/2025 |
| <b><u>FROM</u></b> 1000.00000ml of M6157 + 1000.00000ml of W3112 = Final Quantity: 2000.000 ml |                |                        |                  |                        |                    |                                 |                  |                                 |



| <u>Recipe ID</u>                                                           | <u>NAME</u>          | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u>                  | <u>PipetteID</u> | <u>Supervised By</u>            |
|----------------------------------------------------------------------------|----------------------|------------------------|------------------|------------------------|--------------------|---------------------------------|------------------|---------------------------------|
| 3923                                                                       | Baked Sodium Sulfate | <a href="#">EP2655</a> | 10/24/2025       | 01/28/2026             | RUPESHKUMAR SHAH   | Extraction_SCALE_2<br>(EX-SC-2) | None             | Riteshkumar Patel<br>10/24/2025 |
| <b><u>FROM</u></b> 4000.00000gram of E3875 = 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="#">SP6830</a> | 06/17/2025       | 12/13/2025             | Jagrut Upadhyay    | None           | None             | Rahul Chavli<br>06/19/2025 |
| <u>FROM</u>      | 0.10000ml of S12670 + 4.90000ml of E3942 = 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> |
|------------------|----------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3491             | 8270-SIM-Surrogate 0.4 PPM | <a href="#">SP6873</a> | 09/30/2025       | 12/09/2025             | Jagrut Upadhyay    | None           | None             | Rahul Chavli         |
|                  |                            |                        |                  |                        |                    |                |                  | 09/30/2025           |

**FROM** 0.00400ml of S12201 + 0.00800ml of S12905 + 0.02000ml of S11828 + 99.96800ml of E3972 = Final Quantity: 100.000 ml

| <u>Recipe ID</u> | <u>NAME</u>          | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|----------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3895             | 50 ug/ml DFTTP 8270E | <a href="#">SP6875</a> | 09/30/2025       | 03/30/2026             | Rahul Chavli       | None           | None             | Jagrut Upadhyay      |
|                  |                      |                        |                  |                        |                    |                |                  | 09/30/2025           |

**FROM** 1.00000ml of S12577 + 19.00000ml of E3973 = 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="#">SP6876</a> | 09/30/2025       | 11/30/2025             | Jagrut Upadhyay    | None           | None             | Rahul Chavli<br>09/30/2025 |
| <u>FROM</u>      | 0.00080ml of S11652 + 0.01000ml of S13120 + 0.02000ml of S12560 + 0.02000ml of S13097 + 0.02000ml of S13245 + 49.92920ml of E3972 = Final Quantity: 50.000 ml |                        |                  |                        |                    |                |                  |                            |

[illegible]

## 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="#">SP6897</a> | 10/22/2025       | 12/09/2025             | Jagrut Upadhyay    | None           | None             | Rahul Chavli         |
|                  |                                        |                        |                  |                        |                    |                |                  | 11/06/2025           |

**FROM** 0.50000ml of E3980 + 0.01000ml of SP6830 + 0.50000ml of SP6896 = 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="#">SP6898</a> | 10/22/2025       | 12/09/2025             | Jagrut Upadhyay    | None           | None             | Rahul Chavli         |
|                  |                                          |                        |                  |                        |                    |                |                  | 11/06/2025           |

**FROM** 0.68000ml of E3980 + 0.01000ml of SP6830 + 0.32000ml of SP6896 = 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="#">SP6900</a> | 10/22/2025       | 12/09/2025             | Jagrut Upadhyay    | None           | None             | Rahul Chavli         |
|                  |                                          |                        |                  |                        |                    |                |                  | 11/06/2025           |

**FROM** 0.84000ml of E3980 + 0.01000ml of SP6830 + 0.16000ml of SP6896 = 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="#">SP6901</a> | 10/22/2025       | 12/09/2025             | Jagrut Upadhyay    | None           | None             | Rahul Chavli         |
|                  |                                          |                        |                  |                        |                    |                |                  | 11/06/2025           |

**FROM** 0.92000ml of E3980 + 0.01000ml of SP6830 + 0.08000ml of SP6896 = 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="#">SP6902</a> | 10/22/2025       | 12/09/2025             | Jagrut Upadhyay    | None           | None             | Rahul Chavli         |
|                  |                                          |                        |                  |                        |                    |                |                  | 11/06/2025           |

**FROM** 0.96000ml of E3980 + 0.01000ml of SP6830 + 0.04000ml of SP6896 = 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="#">SP6903</a> | 10/22/2025       | 12/09/2025             | Jagrut Upadhyay    | None           | None             | Rahul Chavli         |
|                  |                                          |                        |                  |                        |                    |                |                  | 11/06/2025           |

**FROM** 0.50000ml of E3980 + 0.01000ml of SP6830 + 0.50000ml of SP6902 = 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="#">SP6904</a> | 10/22/2025       | 12/09/2025             | Jagrut Upadhyay    | None           | None             | Rahul Chavli         |
|                  |                                          |                        |                  |                        |                    |                |                  | 11/06/2025           |

**FROM** 0.75000ml of E3980 + 0.01000ml of SP6830 + 0.25000ml of SP6902 = 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> |
|------------------|------------------------------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3355             | 8270-SIM MDL-3.2PPM CALIBRATION STOCK SOL- 2ND | <a href="#">SP6905</a> | 10/27/2025       | 12/09/2025             | Jagrut Upadhyay    | None           | None             | Rahul Chavli         |
|                  |                                                |                        |                  |                        |                    |                |                  | 11/06/2025           |

**FROM** SOURCE  
0.00630ml of S12201 + 0.01280ml of S12905 + 0.03200ml of S11828 + 0.03200ml of S13122 + 0.06400ml of S12563 +  
0.06400ml of S13249 + 0.06400ml of S13299 + 19.72490ml of E3980 = Final Quantity: 20.000 ml



| <u>Recipe ID</u>                                                                                    | <u>NAME</u>                                    | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|-----------------------------------------------------------------------------------------------------|------------------------------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3356                                                                                                | 8270-SIM MDL-0.4PPM<br>CALIBRATION SOL ICV-2ND | <a href="#">SP6906</a> | 10/27/2025       | 12/09/2025             | Jagrut Upadhyay    | None           | None             | Rahul Chavli         |
| SOURCE<br>0.87500ml of E3980 + 0.01000ml of SP6830 + 0.12500ml of SP6905 = Final Quantity: 1.010 ml |                                                |                        |                  |                        |                    |                |                  |                      |

## CHEMICAL RECEIPT LOG BOOK

| Supplier                    | ItemCode / ItemName                                  | Lot #      | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-----------------------------|------------------------------------------------------|------------|-----------------|-------------------------|-----------------------------|----------------|
| PCI Scientific Supply, Inc. | 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 # |
|-----------------------------|--------------------------------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| PCI Scientific Supply, Inc. | PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1 | 417203 | 07/28/2026      | 07/28/2025 / RUPESH     | 01/29/2025 / Rajesh         | E3875          |

| Supplier         | ItemCode / ItemName                                         | Lot #      | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------|-------------------------------------------------------------|------------|-----------------|-------------------------|-----------------------------|----------------|
| Seidler Chemical | BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L) | 25A2862010 | 12/13/2025      | 06/13/2025 / Rajesh     | 02/28/2025 / Rajesh         | E3942          |

| 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 | 05/24/2027      | 09/16/2025 / Evelyn     | 09/04/2025 / Riteshkumar    | E3972          |

| 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) | 25C1262005 | 04/16/2026      | 09/15/2025 / Riteshkumar | 09/15/2025 / Riteshkumar    | E3973          |

| 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) | 25C1262005 | 04/16/2026      | 10/10/2025 / RUPESH     | 10/10/2025 / RUPESH         | E3980          |

## CHEMICAL RECEIPT LOG BOOK

| Supplier         | ItemCode / ItemName                                     | Lot #      | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------|---------------------------------------------------------|------------|-----------------|-------------------------|-----------------------------|----------------|
| Seidler Chemical | BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L) | 24i1262013 | 11/07/2025      | 05/07/2025 / RUPESH     | 02/18/2025 / Mohan          | M6157          |

| Supplier          | ItemCode / ItemName                                       | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-------------------|-----------------------------------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| CPI International | Z-112090-04 / CLP Acid Surrogate Solution, 7500 mg/L, 1ml | 440246 | 12/19/2025      | 06/19/2025 / Jagrut     | 12/09/2021 / Christian      | S10105         |

| 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 | 04/22/2026      | 10/22/2025 / Jagrut     | 08/11/2023 / Yogesh         | S11497         |

| Supplier | ItemCode / ItemName                                         | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|-------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 555872 / Custom Standard, pentachlorophenol Std [CS 5328-5] | A0201728 | 01/30/2026      | 07/30/2025 / Rahul      | 11/09/2023 / Yogesh         | S11652         |

| 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 | 12/09/2025      | 06/09/2025 / Jagrut     | 11/21/2023 / rahul          | S11828         |

| 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 | 04/22/2026      | 10/22/2025 / Jagrut     | 03/08/2024 / Rahul          | S12116         |

## CHEMICAL RECEIPT LOG BOOK

| 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 | 03/22/2026      | 09/22/2025 /<br>Jagrut  | 03/15/2024 /<br>Rahul       | S12201         |

| Supplier          | ItemCode / ItemName                                                        | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-------------------|----------------------------------------------------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| CPI International | z-110381-01 / 8270<br>Calibration Solution, 76-1,<br>500 & 1,000 mg/L, 1ml | 520963 | 12/25/2025      | 06/25/2025 /<br>Jagrut  | 05/24/2024 /<br>Rahul       | S12273         |

| Supplier | ItemCode / ItemName                                                                                           | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|---------------------------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 555224 / Custom 8270<br>Plus Std #2 [2nd lot at \$85<br>per ampul if requested -<br>contact ARM with Request] | A0214017 | 03/22/2026      | 09/22/2025 /<br>Jagrut  | 07/23/2024 /<br>RAHUL       | S12560         |

[CS 4978-2]

| Supplier | ItemCode / ItemName                                                                                           | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|---------------------------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 555224 / Custom 8270<br>Plus Std #2 [2nd lot at \$85<br>per ampul if requested -<br>contact ARM with Request] | A0214017 | 04/16/2026      | 10/16/2025 /<br>Jagrut  | 07/23/2024 /<br>RAHUL       | S12563         |

[CS 4978-2]

| Supplier | ItemCode / ItemName                                                                    | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|----------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31615 / SV Mixture,<br>GC/MS Tuning Mixture,<br>CH <sub>2</sub> Cl <sub>2</sub> , 1mL, | A0212955 | 06/30/2027      | 03/31/2025 /<br>Rahul   | 08/01/2024 /<br>Rahul       | S12577         |

| 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 | A0212266 | 12/16/2025      | 06/16/2025 /<br>anahy   | 09/20/2024 /<br>anahy       | S12670         |

## CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName                                                              | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|----------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31086 / Base Neutral Surrogate<br>5000ug/ml,CH <sub>2</sub> Cl <sub>2</sub> ,5ml | A0216785 | 03/22/2026      | 09/22/2025 / Jagrut     | 12/09/2024 / anahy          | S12905         |

| 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) | 531243 | 12/25/2025      | 06/25/2025 / Jagrut     | 01/16/2025 / anahy          | S13058         |

| Supplier | ItemCode / ItemName                                                                                                                    | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|----------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH <sub>2</sub> Cl <sub>2</sub> [New Solvent 100% CH <sub>2</sub> Cl <sub>2</sub> ] | A0221014 | 11/30/2025      | 09/03/2025 / Jagrut     | 05/20/2025 / Rahul          | S13097         |

| 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 | A0218894 | 02/25/2026      | 08/25/2025 / Jagrut     | 05/20/2025 / Rahul          | S13120         |

| 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 | A0218894 | 04/16/2026      | 10/16/2025 / Jagrut     | 05/20/2025 / Rahul          | S13122         |

| 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] | A0228451 | 03/23/2026      | 09/22/2025 / Jagrut     | 08/06/2025 / Rahul          | S13245         |

[CS 4978-1]

## CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName                                                                                            | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|----------------------------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 555223 / Custom 8270<br>Plus Std #1 [2nd lot at \$100<br>per ampul if requested -<br>contact ARM with Request] | A0228451 | 04/27/2026      | 10/27/2025 /<br>Jagrut  | 08/06/2025 /<br>Rahul       | S13249         |

[CS 4978-1]

| 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<br>Solvent 100% CH <sub>2</sub> Cl <sub>2</sub> ] | A0229652 | 04/27/2026      | 10/27/2025 /<br>Jagrut  | 10/15/2025 /<br>rahul       | S13299         |

| 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 /<br>lwona   | 07/03/2024 /<br>lwona       | W3112          |



5580 Skylane Blvd  
Santa Rosa, CA 95403

(707)525-5788  
(800)878-7654 Toll Free  
(707)545-7901 Fax

Manufacturer's Quality System  
Audited & Registered  
by TUV USA to ISO 9001:2015

Date Received: \_\_\_\_\_

## Certificate of Analysis

Rev 0

Page 1 of 1

**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



# 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.

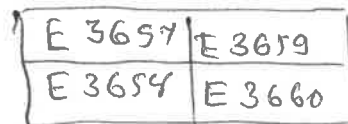
This document has been electronically produced and is valid without a signature.

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.





**PRODUCTOS  
QUÍMICOS  
MONTERREY, S.A. DE C.V.**

MIRADOR 201, COL. MIRADOR  
MONTERREY, N.L. MÉXICO  
CP 64070  
TEL +52 81 13 52 67 67  
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: | MAY/23/2024                     |
| LOT NUMBER :          | 417203                            |               |                                 |

| TEST                                     | SPECIFICATIONS | LOT VALUES  |
|------------------------------------------|----------------|-------------|
| Assay (Na <sub>2</sub> SO <sub>4</sub> ) | Min. 99.0%     | 99.8 %      |
| pH of a 5% solution at 25°C              | 5.2 - 9.2      | 6.2         |
| Insoluble matter                         | Max. 0.01%     | 0.001 %     |
| 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%     | 0.001 %     |
| Magnesium (Mg)                           | Max. 0.005%    | 0.001 %     |
| Potassium (K)                            | Max. 0.008%    | 0.001 %     |
| 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%        | 0.2 %       |
| Retained on US Standard No. 60 sieve     | Min. 94%       | 96.2 %      |
| Through US Standard No. 60 sieve         | Max. 5%        | 3.5 %       |
| 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.

RE-02-01, Ed. 3

E 3875

Methylene Chloride  
ULTRA RESI-ANALYZED  
For Organic Residue Analysis  
(dichloromethane)



Material No.: 9266-A4

Batch No.: 25A2862010

Manufactured Date: 2024-12-18

Expiration Date: 2026-03-19

Revision No.: 0

## Certificate of Analysis

| Test                                                                                       | Specification          | Result  |
|--------------------------------------------------------------------------------------------|------------------------|---------|
| FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)                       | $\leq 5$               | <1      |
| ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)                        | $\leq 10$              | 2       |
| Assay ( $\text{CH}_2\text{Cl}_2$ ) (by GC, exclusive of preservative, corrected for water) | $\geq 99.8 \%$         | 99.9 %  |
| Color (APHA)                                                                               | $\leq 10$              | 5       |
| Residue after Evaporation                                                                  | $\leq 1.0 \text{ ppm}$ | 0.3 ppm |
| Titration Acid ( $\mu\text{eq/g}$ )                                                        | $\leq 0.3$             | <0.1    |
| Chloride (Cl)                                                                              | $\leq 10 \text{ ppm}$  | <5 ppm  |
| Water (by KF, coulometric)                                                                 | $\leq 0.02 \%$         | <0.01 % |

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E3942

Jamie Croak  
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC

Acetone  
BAKER RESI-ANALYZED® Reagent  
For Organic Residue Analysis

avantor™



Material No.: 9254-03

Batch No.: 24H1462005

Manufactured Date: 2024-05-24

Expiration Date: 2027-05-24

Revision No.: 0

## Certificate of Analysis

| Test                                                                    | Specification | Result      |
|-------------------------------------------------------------------------|---------------|-------------|
| Assay ((CH <sub>3</sub> ) <sub>2</sub> CO) (by GC, corrected for water) | >= 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 Heptachlor Epoxide) Single Peak (pg/mL)    | <= 10         | 1           |

For Laboratory, Research, or Manufacturing Use  
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States  
Packaging Site: Phillipsburg Mfg Ctr & DC

E3972

Jamie Croak  
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC

Methylene Chloride  
ULTRA RESI-ANALYZED  
For Organic Residue Analysis  
(dichloromethane)



Material No.: 9266-A4  
Batch No.: 25C1262005  
Manufactured Date: 2025-01-15  
Expiration Date: 2026-04-16  
Revision No.: 0

## Certificate of Analysis

| Test                                                                                       | Specification  | Result     |
|--------------------------------------------------------------------------------------------|----------------|------------|
| FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)                       | $\leq 5$       | 1          |
| ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)                        | $\leq 10$      | 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 | 0.1 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

REC. on 10/10/25  
RJ

E3980

Jamie Croak  
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA, 19087, U.S.A. Phone 610.386.1700

Sulfuric Acid  
BAKER INSTRA-ANALYZED® Reagent  
For Trace Metal Analysis  
Low Selenium

avantor™



M6157  
MS

Material No.: 9673-33

Batch No.: 24I1262013

Manufactured Date: 2024-08-07

Retest Date: 2029-08-06

Revision No.: 0

## Certificate of Analysis

| Test                                                        | Specification | Result      |
|-------------------------------------------------------------|---------------|-------------|
| ACS – Assay (H <sub>2</sub> SO <sub>4</sub> )               | 95.0 – 98.0 % | 96.2 %      |
| Appearance                                                  | Passes Test   | Passes Test |
| ACS – Color (APHA)                                          | <= 10         | 5           |
| ACS – Residue after Ignition                                | <= 3 ppm      | <1 ppm      |
| ACS – Substances Reducing Permanganate(as SO <sub>2</sub> ) | <= 2 ppm      | <2 ppm      |
| Ammonium (NH <sub>4</sub> )                                 | <= 1 ppm      | <1 ppm      |
| Chloride (Cl)                                               | <= 0.1 ppm    | <0.1 ppm    |
| Nitrate (NO <sub>3</sub> )                                  | <= 0.2 ppm    | 0.1 ppm     |
| Phosphate (PO <sub>4</sub> )                                | <= 0.5 ppm    | <0.1 ppm    |
| Trace Impurities – Aluminum (Al)                            | <= 30.0 ppb   | <5.0 ppb    |
| Arsenic & Antimony (as As)                                  | <= 4.0 ppb    | <2.0 ppb    |
| Trace Impurities – Boron (B)                                | <= 10.0 ppb   | <5.0 ppb    |
| Trace Impurities – Cadmium (Cd)                             | <= 2.0 ppb    | <1.0 ppb    |
| Trace Impurities – Chromium (Cr)                            | <= 6.0 ppb    | <1.0 ppb    |
| Trace Impurities – Cobalt (Co)                              | <= 0.5 ppb    | <0.3 ppb    |
| Trace Impurities – Copper (Cu)                              | <= 1.0 ppb    | <1.0 ppb    |
| Trace Impurities – Gold (Au)                                | <= 10.0 ppb   | <5.0 ppb    |
| Heavy Metals (as Pb)                                        | <= 500.0 ppb  | <100.0 ppb  |
| Trace Impurities – Iron (Fe)                                | <= 50.0 ppb   | <1.0 ppb    |
| Trace Impurities – Lead (Pb)                                | <= 0.5 ppb    | <0.5 ppb    |
| Trace Impurities – Magnesium (Mg)                           | <= 7.0 ppb    | <1.0 ppb    |
| Trace Impurities – Manganese (Mn)                           | <= 1.0 ppb    | <1.0 ppb    |
| Trace Impurities – Mercury (Hg)                             | <= 0.5 ppb    | <0.1 ppb    |
| Trace Impurities – Nickel (Ni)                              | <= 2.0 ppb    | <0.3 ppb    |
| Trace Impurities – Potassium (K)                            | <= 500.0 ppb  | <10.0 ppb   |
| Trace Impurities – Selenium (Se)                            | <= 50.0 ppb   | 7.2 ppb     |
| Trace Impurities – Silicon (Si)                             | <= 100.0 ppb  | 12.8 ppb    |
| Trace Impurities – Silver (Ag)                              | <= 1.0 ppb    | <1.0 ppb    |

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC

Sulfuric Acid  
BAKER INSTRA-ANALYZED® Reagent  
For Trace Metal Analysis  
Low Selenium

 **avantors**™



Material No.: 9673-33

Batch No.: 2411262013

| Test                              | Specification    | Result      |
|-----------------------------------|------------------|-------------|
| Trace Impurities – Sodium (Na)    | $\leq 500.0$ ppb | $< 5.0$ ppb |
| Trace Impurities – Strontium (Sr) | $\leq 5.0$ ppb   | $< 1.0$ ppb |
| Trace Impurities – Tin (Sn)       | $\leq 5.0$ ppb   | 1.1 ppb     |
| Trace Impurities – Zinc (Zn)      | $\leq 5.0$ ppb   | $< 1.0$ ppb |

For Laboratory, Research, or Manufacturing Use

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC



Jamie Croak  
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC



5580 Skylane Blvd  
Santa Rosa, CA 95403

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Manufacturer's Quality System  
Audited & Registered  
by TUV USA to ISO 9001:2015

Date Received: \_\_\_\_\_

## Certificate of Analysis

Rev 0

Page 1 of 1

| Catalog No.: | Lot No.: | Storage: | Solvent:           | Exp. Date: | Description:                                          |
|--------------|----------|----------|--------------------|------------|-------------------------------------------------------|
| Z-110094-02  | 506889   | ≤ -10 °C | Methylene Chloride | 7/25/2028  | CLP Base/Neutral Surrogate Solution, 5,000 mg/L, 1 ml |

| Compound                           | CAS No.   | Purity (%) | Compound Lot No. | Concentration, mg/L |
|------------------------------------|-----------|------------|------------------|---------------------|
| 1,2-dichlorobenzene-d <sub>4</sub> | 2199-69-1 | 99.7       | 247.29.3P        | 5035 ± 28.02        |
| 2-fluorobiphenyl                   | 321-60-8  | 99.69      | 8.286.1.1P       | 4999 ± 103.66       |
| nitrobenzene-d5                    | 4165-60-0 | 99.67      | 7.9.3P           | 4988 ± 27.32        |
| p-terphenyl-d14                    | 1718-51-0 | 99.3       | 9.120.8P         | 5005 ± 27.85        |

511494 } Y.P.  
↓  
511498 } 08/11/2023

\*Not a certified value

Certified By: \_\_\_\_\_

Clint Tipton  
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.  
Concentration (correct for purity) and uncertainty (95% confidence) values  
listed are determined gravimetrically.



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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

gravimetric



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 555872 **Lot No.:** A0201728

**Description :** Custom Pentachlorophenol Standard  
Custom Pentachlorophenol Standard 25,000µg/mL, Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** September 30, 2026 **Storage:** 10°C or colder

**Ship:** Ambient

511649  
↓  
511658 } Y.P.  
11/13/23

### CERTIFIED VALUES

| Component # | Compound          | CAS #   | Lot #       | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|-------------|-------------------|---------|-------------|--------|-----------------------------|----------------------------------------|
| 1           | Pentachlorophenol | 87-86-5 | RP230530RSR | 99%    | 25,000.0 µg/mL              | +/- 777.0837                           |

**Solvent:** Methanol  
**CAS #** 67-56-1  
**Purity** 99%

Josh McCloskey - Operations Technician I

**Date Mixed:** 05-Sep-2023

**Balance:** B251644995

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

$k$  is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 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:**

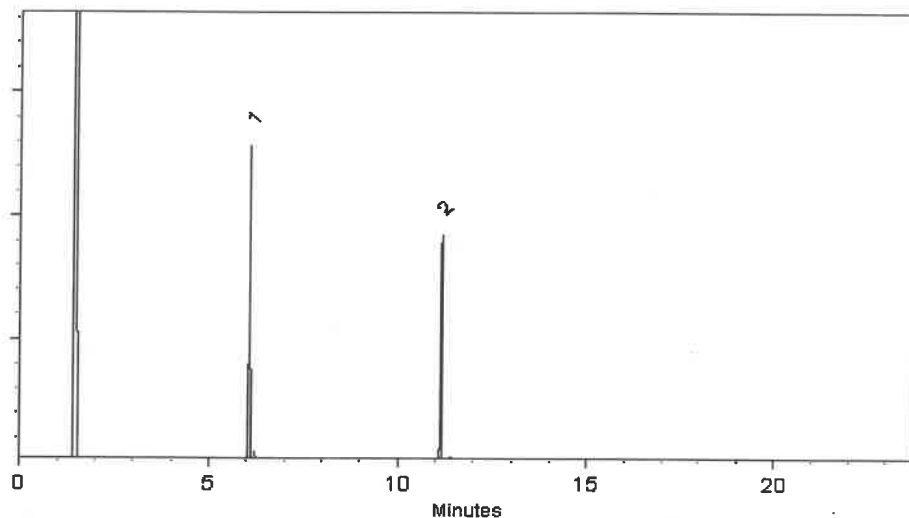
FID

**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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Manufacturer's Quality System  
Audited & Registered  
by TUV USA to ISO 9001:2015

Date Received: \_\_\_\_\_

## Certificate of Analysis

Rev 0

Page 1 of 1

| Catalog No.: | Lot No.: | Storage: | Solvent:     | Exp. Date: | Description:                             |
|--------------|----------|----------|--------------|------------|------------------------------------------|
| Z-020223-01  | 454157   | ≤ -10 °C | P/T Methanol | 6/10/2026  | 1,4-Dioxane Solution, 2000 mg/L,<br>1 mL |

| Compound    | CAS No.  | Purity (%) | Compound Lot No. | Concentration, mg/L |
|-------------|----------|------------|------------------|---------------------|
| 1,4-dioxane | 123-91-1 | 100        | 223.1.3P         | 1997 ± 57.08        |

512112 } RC/  
↓  
912116 } 03/08/24

\*Not a certified value

Certified By: \_\_\_\_\_

*Melissa Workoff*  
Melissa Workoff  
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.  
Concentration (correct for purity) and uncertainty (95% confidence) values  
listed are determined gravimetrically.



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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

chromatographic plus



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31087 **Lot No.:** A0206206  
**Description :** Acid Surrogate Mix (4/89 SOW)  
Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul  
**Container Size :** 5 mL **Pkg Amt:** > 5 mL  
**Expiration Date :** January 31, 2032 **Storage:** 10°C or colder  
**Ship:** Ambient

512187 } RC/  
↓ } 03/18/24  
512206 }

### CERTIFIED VALUES

| Elution Order | Compound             | CAS #      | Lot #       | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|----------------------|------------|-------------|--------|-----------------------------|----------------------------------------|
| 1             | 2-Fluorophenol       | 367-12-4   | STBK1705    | 99%    | 10,005.3 µg/mL              | +/- 302.5390                           |
| 2             | Phenol-d6            | 13127-88-3 | PR-33287A   | 99%    | 10,005.5 µg/mL              | +/- 302.5475                           |
| 3             | 2,4,6-Tribromophenol | 118-79-6   | RP230831RSR | 99%    | 10,006.6 µg/mL              | +/- 302.5783                           |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methanol  
**CAS #** 67-56-1  
**Purity** 99%

# Quality Confirmation Test

**Column:**

30m x 0.25mm x 0.25µm  
Rtx-5 (cat.#10223)

**Carrier Gas:**

hydrogen-constant pressure 10 psi.

**Temp. Program:**

40°C (hold 2 min.) to 330°C  
@ 10°C/min. (hold 10 min.)

**Inj. Temp:**

250°C

**Det. Temp:**

330°C

**Det. Type:**

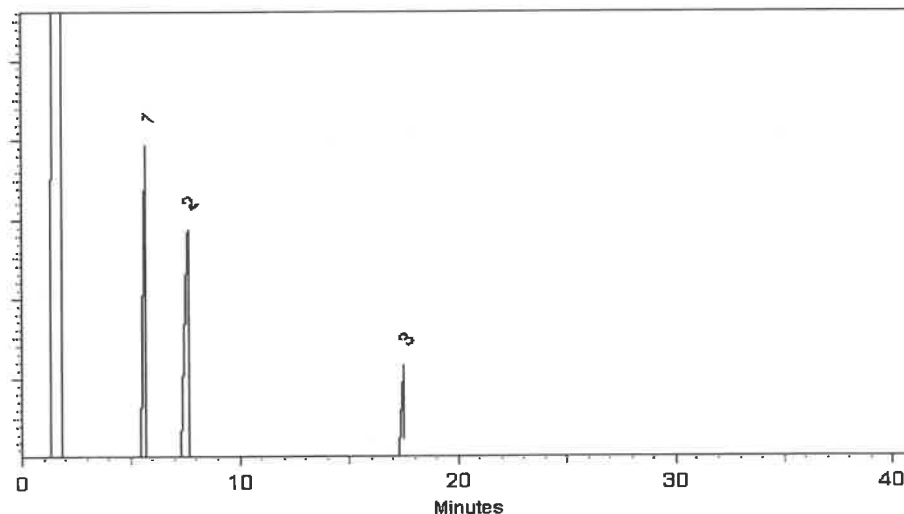
FID

**Split Vent:**

2 ml/min.

**Inj. Vol**

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

*Penelope S. Riglin*

Penelope Riglin - Operations Tech I

Date Mixed: 04-Jan-2024

Balance Serial # 1128360905

*Christie Mills*

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Jan-2024

Manufactured under Restek's ISO 9001:2015  
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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-110381-01         | 520963          | ≤ -10 °C        | Methylene Chloride | 10/10/2028        | Method 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1 mL |

| Compound                          | CAS No.  | Purity (%) | Compound Lot No. | Concentration, mg/L |
|-----------------------------------|----------|------------|------------------|---------------------|
| acenaphthene                      | 83-32-9  | 99.9       | 13.1.5P          | 1010 ± 9.89         |
| acenaphthylene                    | 208-96-8 | 97.6       | 14.290.1P        | 1014 ± 9.93         |
| aniline                           | 62-53-3  | 99.97      | 64.1.4P          | 1001 ± 9.8          |
| anthracene                        | 120-12-7 | 99.5       | 15.7.1P          | 999.6 ± 9.79        |
| azobenzene                        | 103-33-3 | 98.1       | 252.7.2P         | 999.1 ± 9.8         |
| benzo[a]anthracene                | 56-55-3  | 100        | 16.7.3P          | 1007 ± 9.86         |
| benzo[b]fluoranthene              | 205-99-2 | 99.8       | 17.421.3P        | 1011 ± 14.11        |
| benzo[k]fluoranthene              | 207-08-9 | 98.9       | 18.421.4P        | 1001 ± 10.96        |
| benzo[ghi]perylene                | 191-24-2 | 93         | 19.286.4P        | 999.6 ± 13.95       |
| benzo[a]pyrene                    | 50-32-8  | 97         | 20.286.2P        | 999.9 ± 22.24       |
| benzyl alcohol                    | 100-51-6 | 99.9       | 65.18.1P         | 1001 ± 9.82         |
| bis(2-chloroethoxy)methane        | 111-91-1 | 99.1       | 31.3.15P         | 1000 ± 14.69        |
| bis(2-chloroethyl)ether           | 111-44-4 | 99.8       | 32.7.1P          | 1003 ± 13.89        |
| bis(2-chloro-1-methylethyl) ether | 108-60-1 | 99.5       | 34.3.15P         | 999.4 ± 14.68       |
| bis(2-ethylhexyl)adipate          | 103-23-1 | 99.5       | 874.7.1P         | 999.5 ± 9.8         |
| bis(2-ethylhexyl)phthalate        | 117-81-7 | 99.4       | 33.29.1P         | 998.8 ± 17.03       |
| 4-bromophenyl phenyl ether        | 101-55-3 | 99.4       | 35.7.1.1P        | 1000 ± 13.85        |
| butyl benzyl phthalate            | 85-68-7  | 98.4       | 36.1.6P          | 984.7 ± 16.79       |
| carbazole                         | 86-74-8  | 99.4       | 239.7.2P         | 1000 ± 9.8          |

\*Not a certified value

512270 } RC/  
↓  
512274 } 05/24/24

*Kerry Kane*

Certified By: \_\_\_\_\_

Kerry Kane  
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.  
Concentration (correct for purity) and uncertainty (95% confidence) values  
listed are determined gravimetrically.

# Certificate of Analysis

Page 2 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

| Compound                   | CAS No.   | Purity (%) | Compound Lot No. | Concentration, mg/L |
|----------------------------|-----------|------------|------------------|---------------------|
| 4-chloroaniline            | 106-47-8  | 100        | 66.7.1P          | 1000 ± 9.79         |
| 4-chlorophenylphenyl ether | 7005-72-3 | 98         | 37.158.2P        | 1001 ± 17.07        |
| 4-chloro-3-methylphenol    | 59-50-7   | 99         | 102.1.2P         | 1006 ± 17.16        |
| 2-chloronaphthalene        | 91-58-7   | 99.9       | 42.7.6P          | 1000 ± 9.79         |
| 2-chlorophenol             | 95-57-8   | 99.8       | 103.7.1P         | 1007 ± 13.96        |
| chrysene                   | 218-01-9  | 96         | 21.286.2P        | 998.4 ± 12.85       |
| dibenz[a,h]anthracene      | 53-70-3   | 99.44      | 22.286.3P        | 1000 ± 9.74         |
| dibenzofuran               | 132-64-9  | 100        | 67.7.2.1P        | 1002 ± 9.77         |
| di-n-butyl phthalate       | 84-74-2   | 99.84      | 40.286.1P        | 1007 ± 24.48        |
| 1,2-dichlorobenzene        | 95-50-1   | 99.8       | 43.7.1P          | 1000 ± 9.79         |
| 1,3-dichlorobenzene        | 541-73-1  | 99.5       | 44.1.3P          | 999.4 ± 9.79        |
| 1,4-dichlorobenzene        | 106-46-7  | 99.9       | 45.29.2P         | 1000 ± 9.79         |
| 2,4-dichlorophenol         | 120-83-2  | 99.6       | 104.7.1.1P       | 1005 ± 13.93        |
| diethyl phthalate          | 84-66-2   | 99.8       | 38.7.1P          | 1011 ± 14           |
| 2,4-dimethylphenol         | 105-67-9  | 99.6       | 105.7.1.1P       | 1009 ± 13.98        |
| dimethyl phthalate         | 131-11-3  | 99.9       | 39.9.2P          | 996.5 ± 13.8        |
| 1,2-dinitrobenzene         | 528-29-0  | 99.86      | 86.7.3.1P        | 999.5 ± 9.75        |
| 1,3-dinitrobenzene         | 99-65-0   | 100        | 313.7.2P         | 998 ± 9.79          |
| 1,4-dinitrobenzene         | 100-25-4  | 100        | 907.7.1P         | 999.5 ± 9.8         |
| 2,4-dinitrophenol          | 51-28-5   | 99.9       | 106.1.6DP        | 1002 ± 13.89        |
| 2,4-dinitrotoluene         | 121-14-2  | 100        | 87.7.3P          | 999.8 ± 13.85       |
| 2,6-dinitrotoluene         | 606-20-2  | 99.4       | 88.7.2.1P        | 999.6 ± 13.85       |
| di-n-octyl phthalate       | 117-84-0  | 99.1       | 41.7.5P          | 991.6 ± 13.74       |
| diphenylamine              | 122-39-4  | 100        | 78.1.6P          | 998 ± 13.79         |
| 2,3,5,6-tetrachlorophenol  | 935-95-5  | 97         | 1112.286.1P      | 1004 ± 14.02        |
| fluoranthene               | 206-44-0  | 98.6       | 23.7.4P          | 999.6 ± 9.79        |
| fluorene                   | 86-73-7   | 98.4       | 24.7.1P          | 999.7 ± 9.79        |

\*Not a certified value

*Kerry Kane*

Certified By:

Kerry Kane  
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.  
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# Certificate of Analysis

Page 3 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

| Compound                   | CAS No.  | Purity (%) | Compound Lot No. | Concentration, mg/L |
|----------------------------|----------|------------|------------------|---------------------|
| hexachlorobenzene          | 118-74-1 | 99         | 46.158.4P        | 999.9 ± 13.96       |
| hexachlorobutadiene        | 87-68-3  | 97.4       | 47.1.4P          | 1000 ± 9.79         |
| hexachlorocyclopentadiene  | 77-47-4  | 99.2       | 48.2.2P          | 1001 ± 9.8          |
| hexachloroethane           | 67-72-1  | 99.9       | 49.1.4P          | 1003 ± 9.82         |
| indeno[1,2,3-cd]pyrene     | 193-39-5 | 98         | 25.286.4P        | 999.4 ± 22.23       |
| isophorone                 | 78-59-1  | 98.9       | 90.1.4P          | 999.9 ± 13.85       |
| 2-methyl-4,6-dinitrophenol | 534-52-1 | 99.6       | 107.421.2DP      | 991 ± 24.09         |
| 1-methylnaphthalene        | 90-12-0  | 97.1       | 249.7.5P         | 999.2 ± 13.95       |
| 2-methylnaphthalene        | 91-57-6  | 97.4       | 68.7.2P          | 1006 ± 22.38        |
| 2-methylphenol             | 95-48-7  | 99.6       | 114.7.3P         | 1001 ± 13.87        |
| 3-methylphenol             | 108-39-4 | 99.1       | 115.7.4P         | 499.7 ± 6.92        |
| 4-methylphenol             | 106-44-5 | 99.5       | 116.7.1P         | 501.2 ± 6.94        |
| naphthalene                | 91-20-3  | 99.8       | 26.9.1P          | 1018 ± 9.97         |
| 2-nitroaniline             | 88-74-4  | 99.7       | 69.29.1P         | 999.6 ± 9.79        |
| 3-nitroaniline             | 99-09-2  | 100        | 70.7.3P          | 1000 ± 9.74         |
| 4-nitroaniline             | 100-01-6 | 99.7       | 71.29.1P         | 1001 ± 9.8          |
| nitrobenzene               | 98-95-3  | 100        | 94.7.1P          | 1000 ± 13.85        |
| 2-nitrophenol              | 88-75-5  | 99.1       | 108.29.1P        | 996.5 ± 13.81       |
| 4-nitrophenol              | 100-02-7 | 100        | 109.7.1P         | 1000 ± 13.82        |
| N-nitrosodimethylamine     | 62-75-9  | 99.5       | 57.3.19P         | 998.5 ± 14.67       |
| N-nitrosodi-n-propylamine  | 621-64-7 | 99.8       | 59.286.1P        | 996.8 ± 17          |
| pentachlorophenol          | 87-86-5  | 99         | 110.1.7P         | 1004 ± 13.92        |
| phenanthrene               | 85-01-8  | 99.7       | 27.1.5P          | 999 ± 12.87         |
| phenol                     | 108-95-2 | 100        | 112.7.1P         | 998.5 ± 13.8        |
| pyrene                     | 129-00-0 | 99.2       | 28.9.2P          | 998.9 ± 9.78        |
| pyridine                   | 110-86-1 | 100        | 101.24.1P        | 999 ± 9.73          |
| 2,3,4,6-Tetrachlorophenol  | 58-90-2  | 91.8       | 120.421.1P       | 996.5 ± 13.92       |

\*Not a certified value

*Kerry Kane*

Certified By:

Kerry Kane  
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.  
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

# Certificate of Analysis

Page 4 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

| <u>Compound</u>        | <u>CAS No.</u> | <u>Purity (%)</u> | <u>Compound Lot No.</u> | <u>Concentration, mg/L</u> |
|------------------------|----------------|-------------------|-------------------------|----------------------------|
| 1,2,4-trichlorobenzene | 120-82-1       | 99.6              | 54.29.1P                | 999.6 ± 9.79               |
| 2,4,5-trichlorophenol  | 95-95-4        | 96.5              | 121.7.1.1P              | 999.5 ± 13.85              |
| 2,4,6-trichlorophenol  | 88-06-2        | 99.6              | 113.7.1P                | 996 ± 13.8                 |

\*Not a certified value



Certified By: \_\_\_\_\_

Kerry Kane  
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.  
Concentration (correct for purity) and uncertainty (95% confidence) values  
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Fax: 1-814-353-1309

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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

gravimetric



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 555224 **Lot No.:** A0214017

**Description :** Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** July 31, 2026 **Storage:** 10°C or colder

**Ship:** Ambient

### CERTIFIED VALUES

| Component # | Compound                   | CAS #    | Lot #        | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|-------------|----------------------------|----------|--------------|--------|-----------------------------|----------------------------------------|
| 1           | 1,2,4,5-Tetrachlorobenzene | 95-94-3  | MKCT9480     | 99%    | 1,005.0 µg/mL               | +/- 29.541899                          |
| 2           | Acetophenone               | 98-86-2  | STBH8205     | 99%    | 1,005.0 µg/mL               | +/- 29.541899                          |
| 3           | Benzaldehyde               | 100-52-7 | RD231129RSRA | 99%    | 1,008.0 µg/mL               | +/- 29.630084                          |
| 4           | Benzoic acid               | 65-85-0  | MKCR2694     | 99%    | 1,010.0 µg/mL               | +/- 29.688874                          |
| 5           | Biphenyl                   | 92-52-4  | MKCS5928     | 99%    | 1,008.0 µg/mL               | +/- 29.630084                          |

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

S12509 } RC/  
↓  
S12568 } 7/24/24

  
Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024

Balance: 1128360905

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

$k$  is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle  
Bellefonte, PA 16823-8812  
Tel: 1-814-353-1300  
Fax: 1-814-353-1309

www.restek.com

## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

chromatographic plus



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31615 **Lot No.:** A0212955

**Description :** GC/MS Tuning Mixture  
GC/MS Tuning Mixture 1,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** June 30, 2027 **Storage:** 10°C or colder

**Handling:** Contains carcinogen/reproductive toxin. **Ship:** Ambient

### CERTIFIED VALUES

| Elution Order | Compound                             | CAS #     | Lot #       | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|--------------------------------------|-----------|-------------|--------|-----------------------------|----------------------------------------|
| 1             | Pentachlorophenol                    | 87-86-5   | RP240517RSR | 99%    | 1,004.5 µg/mL               | +/- 44.8902                            |
| 2             | DFTPP (Decafluorotriphenylphosphine) | 5074-71-5 | Q117-147    | 99%    | 1,004.5 µg/mL               | +/- 44.8902                            |
| 3             | Benzidine                            | 92-87-5   | S240430RSR  | 99%    | 1,006.0 µg/mL               | +/- 44.9572                            |
| 4             | 4,4'-DDT                             | 50-29-3   | S240530RSR  | 97%    | 1,000.1 µg/mL               | +/- 44.6922                            |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

S12577 } RC  
↓  
S12579 } 8/2/24

## Quality Confirmation Test

**Column:**

30m x 0.25mm x 0.25µm  
Rtx-5 (cat.#10223)

**Carrier Gas:**

hydrogen-constant pressure 10 psi.

**Temp. Program:**

75°C (hold 1 min.) to 330°C  
@ 20°C/min. (hold 10 min.)

**Inj. Temp:**

250°C

**Det. Temp:**

330°C

**Det. Type:**

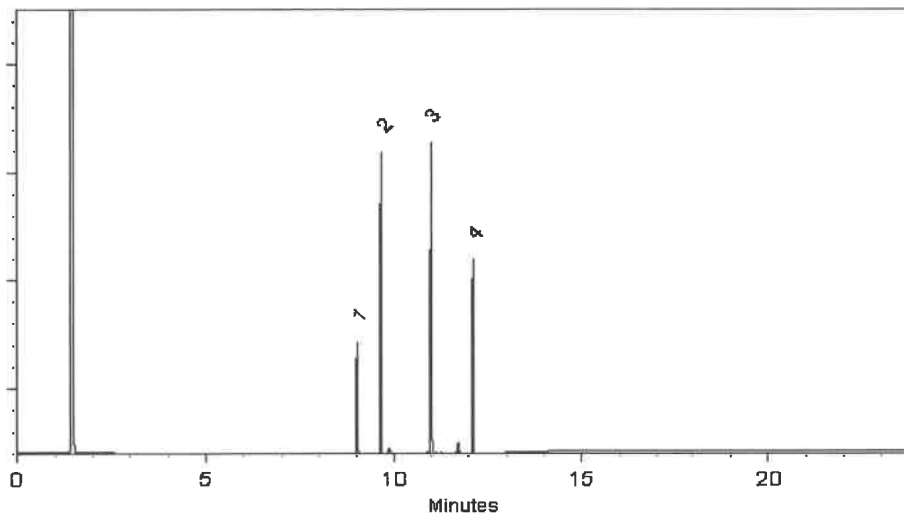
FID

**Split Vent:**

10 ml/min.

**Inj. Vol**

1µl

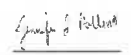


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

  
Ethan Winiarski - Operations Tech I

Date Mixed: 19-Jun-2024

Balance Serial # 1128353505

  
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 26-Jun-2024

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397



110 Benner Circle  
Bellefonte, PA 16823-8812  
Tel: 1-814-353-1300  
Fax: 1-814-353-1309

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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

chromatographic plus



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31206 **Lot No.:** A0212266

**Description :** SV Internal Standard Mix 2mg/ml

SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** April 30, 2030 **Storage:** 10°C or colder

**Handling:** Sonication required. Mix is photosensitive. **Ship:** Ambient

### CERTIFIED VALUES

| Elution Order | Compound               | CAS #      | Lot #    | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|------------------------|------------|----------|--------|-----------------------------|----------------------------------------|
| 1             | 1,4-Dichlorobenzene-d4 | 3855-82-1  | PR-30447 | 99%    | 2,000.6 µg/mL               | +/- 90.1075                            |
| 2             | Naphthalene-d8         | 1146-65-2  | M-2180   | 99%    | 2,000.3 µg/mL               | +/- 90.0925                            |
| 3             | Acenaphthene-d10       | 15067-26-2 | PR-33507 | 99%    | 2,000.4 µg/mL               | +/- 90.1000                            |
| 4             | Phenanthrene-d10       | 1517-22-2  | PR-34099 | 99%    | 2,000.5 µg/mL               | +/- 90.1037                            |
| 5             | Chrysene-d12           | 1719-03-5  | PR-33506 | 99%    | 2,000.7 µg/mL               | +/- 90.1112                            |
| 6             | Perylene-d12           | 1520-96-3  | PR-33205 | 99%    | 2,000.6 µg/mL               | +/- 90.1075                            |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

S12645  
↓  
S12674 } AC  
10/1/24



5580 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

Rev 0

Page 1 of 1

| Catalog No.: | Lot No.: | Storage:                   | Solvent:           | Exp. Date: | Description:                              |
|--------------|----------|----------------------------|--------------------|------------|-------------------------------------------|
| Z-110816-01  | 531243   | $\leq -10^{\circ}\text{C}$ | Methylene Chloride | 1/2/2030   | 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       | 337.7.4P         | 997 $\pm$ 5.81      |
| benzidine   | 92-87-5   | 99.9       | 124.18.6.2P      | 993.8 $\pm$ 5.78    |
| caprolactam | 105-60-2  | 99.9       | 271.1.6P         | 999 $\pm$ 5.82      |

513057 } AC  
↓  
513061 } 1/16/25

\*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: \_\_\_\_\_

Melissa Workoff  
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.  
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.



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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

chromatographic plus



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

Catalog No. : 31850

Lot No.: A0221014

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL

Pkg Amt: > 1 mL

Expiration Date : November 30, 2025

Storage: 0°C or colder

Handling: Sonication required. Mix is photosensitive.

Ship: Ambient

513088 }  
↓  
513117 } 24  
5/20/25.

### CERTIFIED VALUES

| Elution Order | Compound                     | CAS #    | Lot #       | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|------------------------------|----------|-------------|--------|-----------------------------|----------------------------------------|
| 1             | Pyridine                     | 110-86-1 | SHBR4811    | 99%    | 1,005.2 µg/mL               | +/- 36.5730                            |
| 2             | N-Nitrosodimethylamine       | 62-75-9  | S241226RSR  | 99%    | 1,005.5 µg/mL               | +/- 36.5848                            |
| 3             | Phenol                       | 108-95-2 | MKCK1120    | 99%    | 1,005.3 µg/mL               | +/- 36.5780                            |
| 4             | Aniline                      | 62-53-3  | X22F726     | 99%    | 1,005.4 µg/mL               | +/- 36.5816                            |
| 5             | Bis(2-chloroethyl)ether      | 111-44-4 | 002891T24M  | 99%    | 1,004.7 µg/mL               | +/- 36.5562                            |
| 6             | 2-Chlorophenol               | 95-57-8  | STBJ3909    | 99%    | 1,005.3 µg/mL               | +/- 36.5766                            |
| 7             | 1,3-Dichlorobenzene          | 541-73-1 | BCCD5315    | 99%    | 1,004.6 µg/mL               | +/- 36.5530                            |
| 8             | 1,4-Dichlorobenzene          | 106-46-7 | MKBS7929V   | 99%    | 1,006.3 µg/mL               | +/- 36.6125                            |
| 9             | Benzyl alcohol               | 100-51-6 | SHBK5469    | 99%    | 1,005.5 µg/mL               | +/- 36.5853                            |
| 10            | 1,2-Dichlorobenzene          | 95-50-1  | SHBL6287    | 99%    | 1,004.6 µg/mL               | +/- 36.5507                            |
| 11            | 2-Methylphenol (o-cresol)    | 95-48-7  | SHBN7598    | 99%    | 1,004.8 µg/mL               | +/- 36.5575                            |
| 12            | 2,2'-oxybis(1-chloropropane) | 108-60-1 | 29-MAR-45-5 | 99%    | 1,005.4 µg/mL               | +/- 36.5803                            |
| 13            | 3-Methylphenol (m-cresol)    | 108-39-4 | STBL3873    | 99%    | 502.7 µg/mL                 | +/- 18.2888                            |
| 14            | 4-Methylphenol (p-cresol)    | 106-44-5 | SHBN3411    | 99%    | 502.6 µg/mL                 | +/- 18.2869                            |
| 15            | N-Nitroso-di-n-propylamine   | 621-64-7 | N63MG       | 99%    | 1,004.6 µg/mL               | +/- 36.5502                            |
| 16            | Hexachloroethane             | 67-72-1  | DAXRI       | 99%    | 1,004.6 µg/mL               | +/- 36.5530                            |
| 17            | Nitrobenzene                 | 98-95-3  | 10224044    | 99%    | 1,005.3 µg/mL               | +/- 36.5780                            |

|    |                                               |           |                  |     |         |       |             |
|----|-----------------------------------------------|-----------|------------------|-----|---------|-------|-------------|
| 18 | Isophorone                                    | 78-59-1   | MKCR3249         | 99% | 1,004.6 | µg/mL | +/- 36.5511 |
| 19 | 2-Nitrophenol                                 | 88-75-5   | RP230710         | 99% | 1,005.7 | µg/mL | +/- 36.5916 |
| 20 | 2,4-Dimethylphenol                            | 105-67-9  | DIRAF            | 99% | 1,004.9 | µg/mL | +/- 36.5612 |
| 21 | Bis(2-chloroethoxy)methane                    | 111-91-1  | 15705100         | 99% | 1,004.3 | µg/mL | +/- 36.5402 |
| 22 | 2,4-Dichlorophenol                            | 120-83-2  | BCCK6969         | 99% | 1,004.7 | µg/mL | +/- 36.5571 |
| 23 | 1,2,4-Trichlorobenzene                        | 120-82-1  | SHBP5900         | 99% | 1,004.6 | µg/mL | +/- 36.5516 |
| 24 | Naphthalene                                   | 91-20-3   | STBL1057         | 99% | 1,006.8 | µg/mL | +/- 36.6335 |
| 25 | 4-Chloroaniline                               | 106-47-8  | BCCJ3217         | 99% | 1,005.9 | µg/mL | +/- 36.5980 |
| 26 | Hexachlorobutadiene                           | 87-68-3   | X05J             | 98% | 1,004.1 | µg/mL | +/- 36.5328 |
| 27 | 4-Chloro-3-methylphenol                       | 59-50-7   | BCCD4461         | 99% | 1,005.4 | µg/mL | +/- 36.5793 |
| 28 | 2-Methylnaphthalene                           | 91-57-6   | STBL3028         | 99% | 1,006.3 | µg/mL | +/- 36.6144 |
| 29 | 1-Methylnaphthalene                           | 90-12-0   | 5234.00-8        | 98% | 990.2   | µg/mL | +/- 36.0269 |
| 30 | Hexachlorocyclopentadiene                     | 77-47-4   | 099063P13G       | 99% | 1,005.9 | µg/mL | +/- 36.5975 |
| 31 | 2,4,6-Trichlorophenol                         | 88-06-2   | STBK8870         | 99% | 1,004.7 | µg/mL | +/- 36.5566 |
| 32 | 2,4,5-Trichlorophenol                         | 95-95-4   | 3YFRE            | 97% | 1,004.7 | µg/mL | +/- 36.5571 |
| 33 | 2-Chloronaphthalene                           | 91-58-7   | RPN7O            | 99% | 1,005.3 | µg/mL | +/- 36.5757 |
| 34 | 2-Nitroaniline                                | 88-74-4   | RP240715RSR      | 99% | 1,004.8 | µg/mL | +/- 36.5584 |
| 35 | 1,4-Dinitrobenzene                            | 100-25-4  | RP240703RSR      | 99% | 1,004.5 | µg/mL | +/- 36.5475 |
| 36 | Acenaphthylene                                | 208-96-8  | 214935V18H       | 95% | 1,000.1 | µg/mL | +/- 36.3888 |
| 37 | 1,3-Dinitrobenzene                            | 99-65-0   | TRC3-1075941-2-1 | 99% | 1,004.9 | µg/mL | +/- 36.5616 |
| 38 | Dimethylphthalate                             | 131-11-3  | 358221L17K       | 99% | 1,004.5 | µg/mL | +/- 36.5489 |
| 39 | 2,6-Dinitrotoluene                            | 606-20-2  | BCCG1833         | 99% | 1,005.2 | µg/mL | +/- 36.5734 |
| 40 | 1,2-Dinitrobenzene                            | 528-29-0  | RP240701RSR      | 99% | 1,005.9 | µg/mL | +/- 36.6003 |
| 41 | Acenaphthene                                  | 83-32-9   | MKCR7169         | 99% | 1,000.0 | µg/mL | +/- 36.3847 |
| 42 | 3-Nitroaniline                                | 99-09-2   | RP240708RSR      | 99% | 1,004.6 | µg/mL | +/- 36.5525 |
| 43 | 2,4-Dinitrophenol                             | 51-28-5   | D240927RSR       | 99% | 1,005.0 | µg/mL | +/- 36.5657 |
| 44 | Dibenzofuran                                  | 132-64-9  | MKCN1772         | 99% | 1,005.4 | µg/mL | +/- 36.5803 |
| 45 | 2,4-Dinitrotoluene                            | 121-14-2  | 102869V26E       | 99% | 1,005.4 | µg/mL | +/- 36.5803 |
| 46 | 4-Nitrophenol                                 | 100-02-7  | 20241120-1-AN    | 99% | 1,005.7 | µg/mL | +/- 36.5930 |
| 47 | 2,3,4,6-Tetrachlorophenol                     | 58-90-2   | PR-34476         | 99% | 1,004.9 | µg/mL | +/- 36.5616 |
| 48 | 2,3,5,6-Tetrachlorophenol                     | 935-95-5  | RP240523RSR      | 99% | 1,005.2 | µg/mL | +/- 36.5739 |
| 49 | Fluorene                                      | 86-73-7   | 10246250         | 98% | 1,005.8 | µg/mL | +/- 36.5948 |
| 50 | 4-Chlorophenyl phenyl ether                   | 7005-72-3 | 002531K02D       | 99% | 1,004.8 | µg/mL | +/- 36.5584 |
| 51 | Diethylphthalate                              | 84-66-2   | STBL3611         | 99% | 1,005.3 | µg/mL | +/- 36.5762 |
| 52 | 4-Nitroaniline                                | 100-01-6  | RP240830RSR      | 99% | 1,005.5 | µg/mL | +/- 36.5844 |
| 53 | 4,6-Dinitro-2-methylphenol (Dinitro-o-cresol) | 534-52-1  | S241008RSR       | 99% | 1,004.8 | µg/mL | +/- 36.5589 |

|    |                            |          |               |     |         |       |             |
|----|----------------------------|----------|---------------|-----|---------|-------|-------------|
| 54 | Diphenylamine              | 122-39-4 | MKCT1512      | 99% | 1,005.2 | µg/mL | +/- 36.5725 |
| 55 | Azobenzene                 | 103-33-3 | BCCL3292      | 99% | 1,004.7 | µg/mL | +/- 36.5566 |
| 56 | 4-Bromophenyl phenyl ether | 101-55-3 | STBH6361      | 99% | 1,005.6 | µg/mL | +/- 36.5875 |
| 57 | Hexachlorobenzene          | 118-74-1 | 15828800      | 99% | 1,005.3 | µg/mL | +/- 36.5789 |
| 58 | Pentachlorophenol          | 87-86-5  | RP240517RSR   | 99% | 1,005.4 | µg/mL | +/- 36.5825 |
| 59 | Phenanthrene               | 85-01-8  | MKCT3391      | 99% | 1,004.8 | µg/mL | +/- 36.5584 |
| 60 | Anthracene                 | 120-12-7 | MKCW9141      | 99% | 1,005.5 | µg/mL | +/- 36.5834 |
| 61 | Carbazole                  | 86-74-8  | 15630800      | 99% | 1,005.3 | µg/mL | +/- 36.5789 |
| 62 | Di-n-butylphthalate        | 84-74-2  | MKCN4337      | 99% | 1,005.5 | µg/mL | +/- 36.5848 |
| 63 | Fluoranthene               | 206-44-0 | A0458721      | 99% | 1,005.4 | µg/mL | +/- <0.0001 |
| 64 | Pyrene                     | 129-00-0 | BCCL8032      | 99% | 1,005.2 | µg/mL | +/- 36.5734 |
| 65 | Benzyl butyl phthalate     | 85-68-7  | X12I018       | 99% | 1,004.8 | µg/mL | +/- 36.5584 |
| 66 | Bis(2-ethylhexyl)adipate   | 103-23-1 | MKCR8567      | 99% | 1,004.5 | µg/mL | +/- 36.5480 |
| 67 | Benz(a)anthracene          | 56-55-3  | I60012022BAA  | 99% | 1,005.5 | µg/mL | +/- 36.5844 |
| 68 | Chrysene                   | 218-01-9 | RP241212RSR   | 99% | 1,005.5 | µg/mL | +/- 36.5848 |
| 69 | Bis(2-ethylhexyl)phthalate | 117-81-7 | MKCS8065      | 99% | 1,004.7 | µg/mL | +/- 36.5548 |
| 70 | Di-n-octyl phthalate       | 117-84-0 | 15817300      | 99% | 1,004.8 | µg/mL | +/- 36.5607 |
| 71 | Benzo(b)fluoranthene       | 205-99-2 | 022013B       | 99% | 1,005.1 | µg/mL | +/- 36.5716 |
| 72 | Benzo(k)fluoranthene       | 207-08-9 | 012022K       | 98% | 1,004.6 | µg/mL | +/- 36.5511 |
| 73 | Benzo(a)pyrene             | 50-32-8  | NQLXA         | 98% | 1,004.2 | µg/mL | +/- 36.5377 |
| 74 | Indeno(1,2,3-cd)pyrene     | 193-39-5 | 12-JKL-118-9  | 97% | 1,004.1 | µg/mL | +/- 36.5337 |
| 75 | Dibenz(a,h)anthracene      | 53-70-3  | 712061504-1-1 | 99% | 1,005.7 | µg/mL | +/- 36.5930 |
| 76 | Benzo(g,h,i)perylene       | 191-24-2 | RP241014RSR   | 98% | 1,005.4 | µg/mL | +/- 36.5814 |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

#### Tech Tips:

N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.

## 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:**

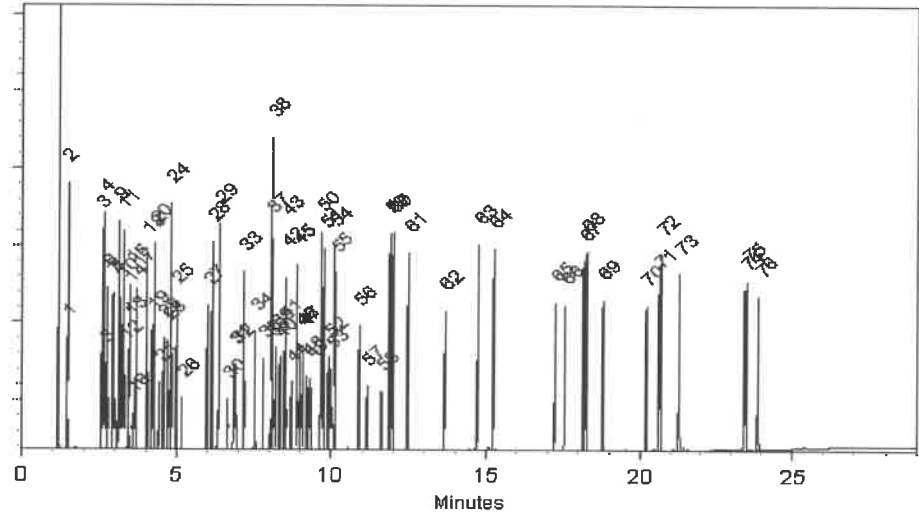
FID

**Split Vent:**

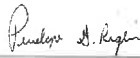
100 ml/min.

**Inj. Vol**

1µl

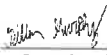


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

  
Penelope Riglin - Operations Tech I

Date Mixed: 12-Jan-2025

Balance Serial # 1128360905

  
Dillan Murphy - Operations Technician I

Date Passed: 21-Jan-2025

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397



110 Benner Circle  
Bellefonte, PA 16823-8812  
Tel: 1-814-353-1300  
Fax: 1-814-353-1309

www.restek.com

## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

*chromatographic plus*



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31853 **Lot No.:** A0218894

**Description :** 1,4-dioxane  
1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** November 30, 2029 **Storage:** 0°C or colder  
**Ship:** Ambient

513118 } RC/  
↓  
513147 } 5/20/25.

### 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 | SHBQ1693 | 99%    | 2,002.4 µg/mL               | +/- 24.9202                            |

\* 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:**

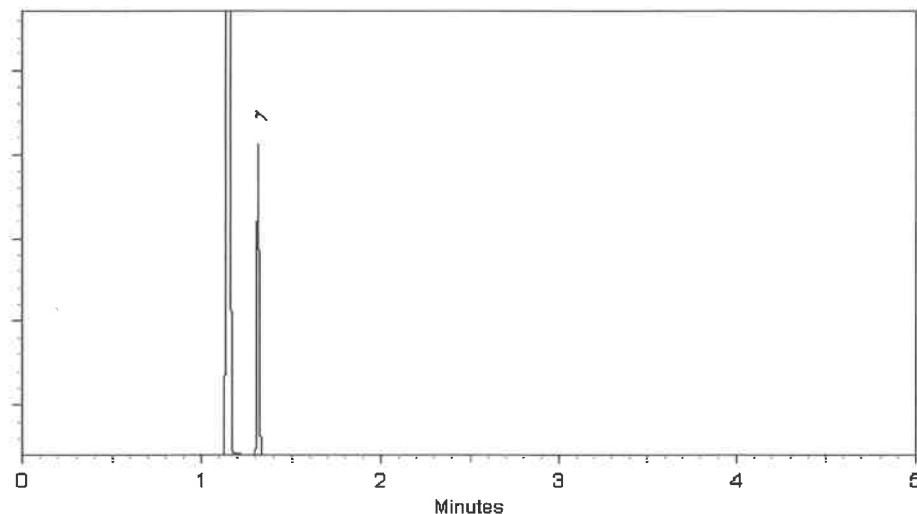
FID

**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.

Penelope Riglin - Operations Tech I

Date Mixed: 07-Nov-2024

Balance Serial # 1128360905

Dillan Murphy - Operations Technician I

Date Passed: 11-Nov-2024

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397



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CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

gravimetric



## FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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**Catalog No. :** 555223 **Lot No.:** A0228451

**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 :** August 31, 2027 **Storage:** 10°C or colder

**Handling:** This product is photosensitive. **Ship:** Ambient

S13239 } RC/  
↓  
S13268 } 08/06/25

## 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   | S250226RSR | 99%    | 1,006.0 µg/mL               | +/- 23.0947                            |
| 2           | Atrazine               | 1912-24-9 | 5FYWL      | 99%    | 1,007.0 µg/mL               | +/- 23.1176                            |
| 3           | Benzidine              | 92-87-5   | S250227ECS | 99%    | 1,003.0 µg/mL               | +/- 23.0258                            |
| 4           | epsilon-Caprolactam    | 105-60-2  | Y16H012    | 99%    | 1,003.0 µg/mL               | +/- 23.0258                            |

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

Tom Sucka - Mix Technician

**Date Mixed:** 01-Aug-2025

**Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397



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Tel: 1-814-353-1300  
Fax: 1-814-353-1309

www.restek.com

## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

chromatographic plus



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31850 **Lot No.:** A0229652

**Description :** 8270 MegaMix®  
8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** July 31, 2026 **Storage:** 0°C or colder

**Handling:** Sonication required. Mix is photosensitive. **Ship:** Ambient

513299 } RC/  
↓ 10/17/25  
513328 }

### CERTIFIED VALUES

| Elution Order | Compound                     | CAS #    | Lot #       | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|------------------------------|----------|-------------|--------|-----------------------------|----------------------------------------|
| 1             | Pyridine                     | 110-86-1 | SHBR4811    | 99%    | 1,004.9 µg/mL               | +/- 36.5621                            |
| 2             | N-Nitrosodimethylamine       | 62-75-9  | S250717RSR  | 99%    | 1,004.5 µg/mL               | +/- 36.5484                            |
| 3             | Phenol                       | 108-95-2 | MKCT5446    | 99%    | 1,003.5 µg/mL               | +/- 36.5120                            |
| 4             | Aniline                      | 62-53-3  | X22F726     | 99%    | 1,004.8 µg/mL               | +/- 36.5575                            |
| 5             | Bis(2-chloroethyl)ether      | 111-44-4 | 002891T24M  | 99%    | 1,003.6 µg/mL               | +/- 36.5166                            |
| 6             | 2-Chlorophenol               | 95-57-8  | STBK4742    | 99%    | 1,004.5 µg/mL               | +/- 36.5484                            |
| 7             | 1,3-Dichlorobenzene          | 541-73-1 | STBL1702    | 99%    | 1,003.8 µg/mL               | +/- 36.5211                            |
| 8             | 1,4-Dichlorobenzene          | 106-46-7 | MKBS7929V   | 99%    | 1,003.8 µg/mL               | +/- 36.5211                            |
| 9             | Benzyl alcohol               | 100-51-6 | 094986W07G  | 99%    | 1,003.8 µg/mL               | +/- 36.5211                            |
| 10            | 1,2-Dichlorobenzene          | 95-50-1  | SHBR4446    | 99%    | 1,004.9 µg/mL               | +/- 36.5621                            |
| 11            | 2-Methylphenol (o-cresol)    | 95-48-7  | SHBN7598    | 99%    | 1,004.3 µg/mL               | +/- 36.5393                            |
| 12            | 2,2'-oxybis(1-chloropropane) | 108-60-1 | RP250904RSR | 99%    | 1,005.0 µg/mL               | +/- 36.5666                            |
| 13            | 3-Methylphenol (m-cresol)    | 108-39-4 | STBL3873    | 99%    | 502.4 µg/mL                 | +/- 18.2788                            |
| 14            | 4-Methylphenol (p-cresol)    | 106-44-5 | SHBQ7653    | 99%    | 502.3 µg/mL                 | +/- 18.2742                            |
| 15            | N-Nitroso-di-n-propylamine   | 621-64-7 | N63MG       | 99%    | 1,004.9 µg/mL               | +/- 36.5621                            |
| 16            | Hexachloroethane             | 67-72-1  | DAXRI       | 99%    | 1,003.9 µg/mL               | +/- 36.5257                            |
| 17            | Nitrobenzene                 | 98-95-3  | 10224044    | 99%    | 1,003.9 µg/mL               | +/- 36.5257                            |

|    |                                               |           |                  |     |         |       |             |
|----|-----------------------------------------------|-----------|------------------|-----|---------|-------|-------------|
| 18 | Isophorone                                    | 78-59-1   | MKCR3249         | 99% | 1,004.8 | µg/mL | +/- 36.5575 |
| 19 | 2-Nitrophenol                                 | 88-75-5   | RP230710         | 99% | 1,003.6 | µg/mL | +/- 36.5166 |
| 20 | 2,4-Dimethylphenol                            | 105-67-9  | DIRAF            | 99% | 1,004.1 | µg/mL | +/- 36.5348 |
| 21 | Bis(2-chloroethoxy)methane                    | 111-91-1  | 15705100         | 99% | 1,004.5 | µg/mL | +/- 36.5484 |
| 22 | 2,4-Dichlorophenol                            | 120-83-2  | BCCK6969         | 99% | 1,004.8 | µg/mL | +/- 36.5575 |
| 23 | 1,2,4-Trichlorobenzene                        | 120-82-1  | SHBR1701         | 99% | 1,004.0 | µg/mL | +/- 36.5302 |
| 24 | Naphthalene                                   | 91-20-3   | STBL1057         | 99% | 1,004.0 | µg/mL | +/- 36.5302 |
| 25 | 4-Chloroaniline                               | 106-47-8  | BCCJ3217         | 99% | 1,004.5 | µg/mL | +/- 36.5484 |
| 26 | Hexachlorobutadiene                           | 87-68-3   | X05J             | 98% | 1,002.7 | µg/mL | +/- 36.4816 |
| 27 | 4-Chloro-3-methylphenol                       | 59-50-7   | BCCK5906         | 99% | 1,004.3 | µg/mL | +/- 36.5393 |
| 28 | 2-Methylnaphthalene                           | 91-57-6   | STBL3028         | 99% | 1,000.5 | µg/mL | +/- 36.4029 |
| 29 | 1-Methylnaphthalene                           | 90-12-0   | 5234.00-8        | 98% | 1,000.0 | µg/mL | +/- 36.3847 |
| 30 | Hexachlorocyclopentadiene                     | 77-47-4   | 099063P13G       | 99% | 1,004.0 | µg/mL | +/- 36.5302 |
| 31 | 2,4,6-Trichlorophenol                         | 88-06-2   | STBK8870         | 99% | 1,003.5 | µg/mL | +/- 36.5120 |
| 32 | 2,4,5-Trichlorophenol                         | 95-95-4   | 3YFRE            | 97% | 1,003.6 | µg/mL | +/- 36.5152 |
| 33 | 2-Chloronaphthalene                           | 91-58-7   | RPN7O            | 99% | 1,003.6 | µg/mL | +/- 36.5166 |
| 34 | 2-Nitroaniline                                | 88-74-4   | RP250625RSR      | 99% | 1,003.8 | µg/mL | +/- 36.5211 |
| 35 | 1,4-Dinitrobenzene                            | 100-25-4  | RP250401RSR      | 99% | 1,004.6 | µg/mL | +/- 36.5530 |
| 36 | Acenaphthylene                                | 208-96-8  | 214935V18H       | 95% | 1,000.4 | µg/mL | +/- 36.3974 |
| 37 | 1,3-Dinitrobenzene                            | 99-65-0   | TRC3-1075941-2-1 | 99% | 1,004.8 | µg/mL | +/- 36.5575 |
| 38 | Dimethylphthalate                             | 131-11-3  | 358221L17K       | 99% | 1,003.5 | µg/mL | +/- 36.5120 |
| 39 | 2,6-Dinitrotoluene                            | 606-20-2  | BCCG1833         | 99% | 1,004.6 | µg/mL | +/- 36.5530 |
| 40 | 1,2-Dinitrobenzene                            | 528-29-0  | RP250203RSR      | 99% | 1,002.6 | µg/mL | +/- 36.4802 |
| 41 | Acenaphthene                                  | 83-32-9   | MKCV8166         | 99% | 1,000.0 | µg/mL | +/- 36.3847 |
| 42 | 3-Nitroaniline                                | 99-09-2   | RP240708RSR      | 99% | 1,003.8 | µg/mL | +/- 36.5211 |
| 43 | 2,4-Dinitrophenol                             | 51-28-5   | D240927RSR       | 99% | 1,004.1 | µg/mL | +/- 36.5348 |
| 44 | Dibenzofuran                                  | 132-64-9  | MKCW3845         | 99% | 1,003.6 | µg/mL | +/- 36.5166 |
| 45 | 2,4-Dinitrotoluene                            | 121-14-2  | 102869V26E       | 99% | 1,003.8 | µg/mL | +/- 36.5211 |
| 46 | 4-Nitrophenol                                 | 100-02-7  | 20241120-1-AN    | 99% | 1,003.0 | µg/mL | +/- 36.4938 |
| 47 | 2,3,4,6-Tetrachlorophenol                     | 58-90-2   | PR-34476         | 99% | 1,003.8 | µg/mL | +/- 36.5211 |
| 48 | 2,3,5,6-Tetrachlorophenol                     | 935-95-5  | RP250724RSR      | 99% | 1,003.1 | µg/mL | +/- 36.4984 |
| 49 | Fluorene                                      | 86-73-7   | 10246250         | 98% | 1,002.9 | µg/mL | +/- 36.4905 |
| 50 | 4-Chlorophenyl phenyl ether                   | 7005-72-3 | 002531K02D       | 99% | 1,004.3 | µg/mL | +/- 36.5393 |
| 51 | Diethylphthalate                              | 84-66-2   | 223219R19C       | 99% | 1,004.8 | µg/mL | +/- 36.5575 |
| 52 | 4-Nitroaniline                                | 100-01-6  | RP240830RSR      | 99% | 1,004.0 | µg/mL | +/- 36.5302 |
| 53 | 4,6-Dinitro-2-methylphenol (Dinitro-o-cresol) | 534-52-1  | S250805RSR       | 99% | 1,004.8 | µg/mL | +/- 36.5575 |

|    |                            |          |               |     |         |       |             |
|----|----------------------------|----------|---------------|-----|---------|-------|-------------|
| 54 | Diphenylamine              | 122-39-4 | MKCT1512      | 99% | 1,004.9 | µg/mL | +/- 36.5621 |
| 55 | Azobenzene                 | 103-33-3 | BCCL3292      | 99% | 1,003.9 | µg/mL | +/- 36.5257 |
| 56 | 4-Bromophenyl phenyl ether | 101-55-3 | STBH6361      | 99% | 1,003.9 | µg/mL | +/- 36.5257 |
| 57 | Hexachlorobenzene          | 118-74-1 | 16302300      | 99% | 1,004.5 | µg/mL | +/- 36.5484 |
| 58 | Pentachlorophenol          | 87-86-5  | RP240411RSR   | 99% | 1,004.9 | µg/mL | +/- 36.5621 |
| 59 | Phenanthrene               | 85-01-8  | MKCV8193      | 99% | 1,003.8 | µg/mL | +/- 36.5211 |
| 60 | Anthracene                 | 120-12-7 | MKCW9141      | 99% | 1,003.3 | µg/mL | +/- 36.5029 |
| 61 | Carbazole                  | 86-74-8  | 15821400      | 99% | 1,003.1 | µg/mL | +/- 36.4984 |
| 62 | Di-n-butylphthalate        | 84-74-2  | MKCN4337      | 99% | 1,004.6 | µg/mL | +/- 36.5530 |
| 63 | Fluoranthene               | 206-44-0 | A0458721      | 99% | 1,004.8 | µg/mL | +/- 36.5575 |
| 64 | Pyrene                     | 129-00-0 | BCCL8032      | 99% | 1,003.8 | µg/mL | +/- 36.5211 |
| 65 | Benzyl butyl phthalate     | 85-68-7  | X12I018       | 99% | 1,004.9 | µg/mL | +/- 36.5621 |
| 66 | Bis(2-ethylhexyl)adipate   | 103-23-1 | MKCM1988      | 99% | 1,003.4 | µg/mL | +/- 36.5075 |
| 67 | Benz(a)anthracene          | 56-55-3  | I80012022BAA  | 99% | 1,004.3 | µg/mL | +/- 36.5393 |
| 68 | Chrysene                   | 218-01-9 | RP250815RSR   | 99% | 1,003.9 | µg/mL | +/- 36.5257 |
| 69 | Bis(2-ethylhexyl)phthalate | 117-81-7 | MKCS8065      | 99% | 1,004.5 | µg/mL | +/- 36.5484 |
| 70 | Di-n-octyl phthalate       | 117-84-0 | 16197600      | 99% | 1,004.4 | µg/mL | +/- 36.5439 |
| 71 | Benzo(b)fluoranthene       | 205-99-2 | 0225BF        | 99% | 1,005.4 | µg/mL | +/- 36.5803 |
| 72 | Benzo(k)fluoranthene       | 207-08-9 | 012022K       | 99% | 1,004.5 | µg/mL | +/- 36.5484 |
| 73 | Benzo(a)pyrene             | 50-32-8  | NQLXA         | 98% | 1,002.4 | µg/mL | +/- 36.4726 |
| 74 | Indeno(1,2,3-cd)pyrene     | 193-39-5 | 17-YMK-40-2   | 99% | 1,004.0 | µg/mL | +/- 36.5302 |
| 75 | Dibenz(a,h)anthracene      | 53-70-3  | 712215450-1-1 | 99% | 1,003.5 | µg/mL | +/- 36.5120 |
| 76 | Benzo(g,h,i)perylene       | 191-24-2 | RP250501RSR   | 98% | 1,003.0 | µg/mL | +/- 36.4949 |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

#### **Tech Tips:**

N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.

## 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:**

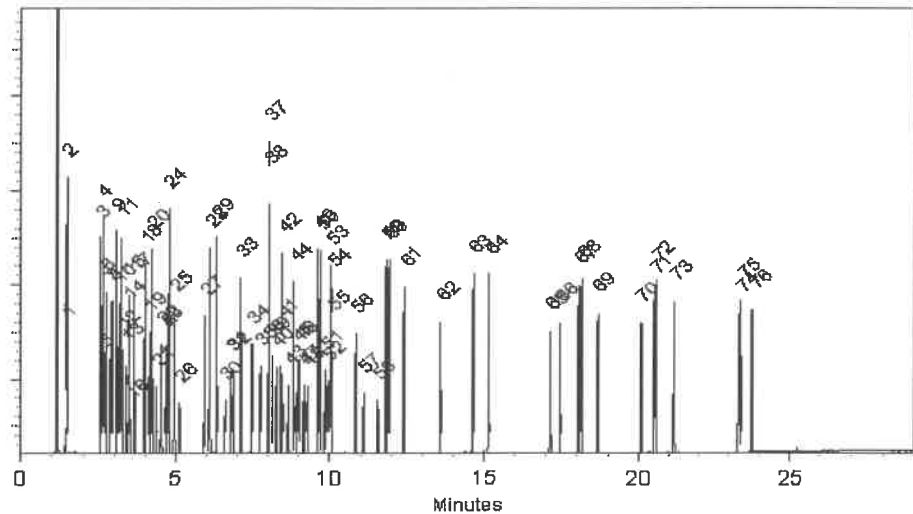
FID

**Split Vent:**

100 mL/min.

**Inj. Vol**

1µl

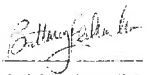


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

  
Dakota Parson - Operations Technician I

**Date Mixed:** 04-Sep-2025

**Balance Serial #** B345965662

  
Brittany Federinko - Operations Tech II

**Date Passed:** 15-Sep-2025

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397



# SHIPPING DOCUMENTS



## CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092

(908) 789-8900 Fax: (908) 78-8922

www.chemtech.net

Chemtech Project Number:

23526

COC Number:

## CLIENT INFORMATION

COMPANY: Tetra Tech

ADDRESS: 4433 Corporation Ln, Suite 300

CITY: Virginia Beach STATE: VA ZIP: 23462

ATTENTION: Ernie Wu

PHONE: 757-466-4901

FAX: 757-461-4148

## PROJECT INFORMATION

PROJECT NAME: NWIRP Bethpage

PROJECT #: 112G08005-WE13 LOCATION: RW7B

PROJECT MANAGER: Ernie Wu

E-MAIL: ernie.wu@tetrattech.com

PHONE: 757-466-4901

FAX: 757-461-4148

## BILLING INFORMATION

BILL TO:

PO#

ADDRESS:

CITY:

STATE: ZIP:

ATTENTION:

PHONE:

## ANALYSIS

1,4-Dioxane SW846 8270  
SIM

1 2 3 4 5 6 7 8 9

## PRESERVATIVES

## COMMENTS

&lt;-- Specify Preservatives

A-HCl B-HNO3

C-H2SO4 D-NaOH

E-ICE F-Other

CHEMTECH  
SAMPLE  
IDPROJECT  
SAMPLE IDENTIFICATIONSAMPLE  
MATRIXSAMPLE  
TYPE

COMP GRAB

SAMPLE  
COLLECTION

DATE TIME

# of Bottles

1 2 3 4 5 6 7 8 9

1. RW7-SP100-20251030

GW

X

10/30/25

12:15

1

X

2. RW7-SP201-20251030

GW

X

10/30/25

12:17

1

X

3. RW7-SP302-20251030

GW

X

10/30/25

12:27

1

X

4. RW7-SP303-20251030

GW

X

10/30/25

12:29

1

X

5.

6.

7.

8.

9.

10.

## SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER

DATE/TIME

RECEIVED BY

1.

10/31/25/1500

1.

11-3-25  
0700

Conditions of bottles or coolers at receipt:

☐ Compliant☐ Non Compliant☐ Cooler Temp

2-3°C

MeOH extraction requires an additional 4oz. Jar for percent solid

☐ Ice in Cooler?:

Y

RELINQUISHED BY

DATE/TIME

RECEIVED BY

2.

2.

RELINQUISHED BY

DATE/TIME

RECEIVED FOR LAB BY

3.

3.

Page \_\_\_\_\_ of \_\_\_\_\_

SHIPPED VIA: CLIENT: ☐ Hand Delivered ☐ OvernightCHEMTECH: ☐ Picked Up ☐ Overnight

Shipment Complete

☐ YES ☐ NO

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT

YELLOW - CHEMTECH COPY

PINK - SAMPLER COPY

### Laboratory Certification

| Certified By    | License No.      |
|-----------------|------------------|
|                 |                  |
| Connecticut     | PH-0830          |
|                 |                  |
| DOD ELAP (ANAB) | L2219            |
|                 |                  |
| Maine           | 2024021          |
|                 |                  |
| Maryland        | 296              |
|                 |                  |
| New Hampshire   | 255425           |
|                 |                  |
| New Jersey      | 20012            |
|                 |                  |
| New York        | 11376            |
|                 |                  |
| Pennsylvania    | 68-00548         |
|                 |                  |
| Soil Permit     | 525-24-234-08441 |
|                 |                  |
| Texas           | TX-C25-00189     |
|                 |                  |
| Virginia        | 460312           |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN102825\  
 Data File : BN038114.D  
 Acq On : 28 Oct 2025 14:49  
 Operator : RC/JU  
 Sample : SSTDICC0.8  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC0.8

Quant Time: Oct 28 17:31:46 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN102825.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Oct 28 17:15:13 2025  
 Response via : Initial Calibration

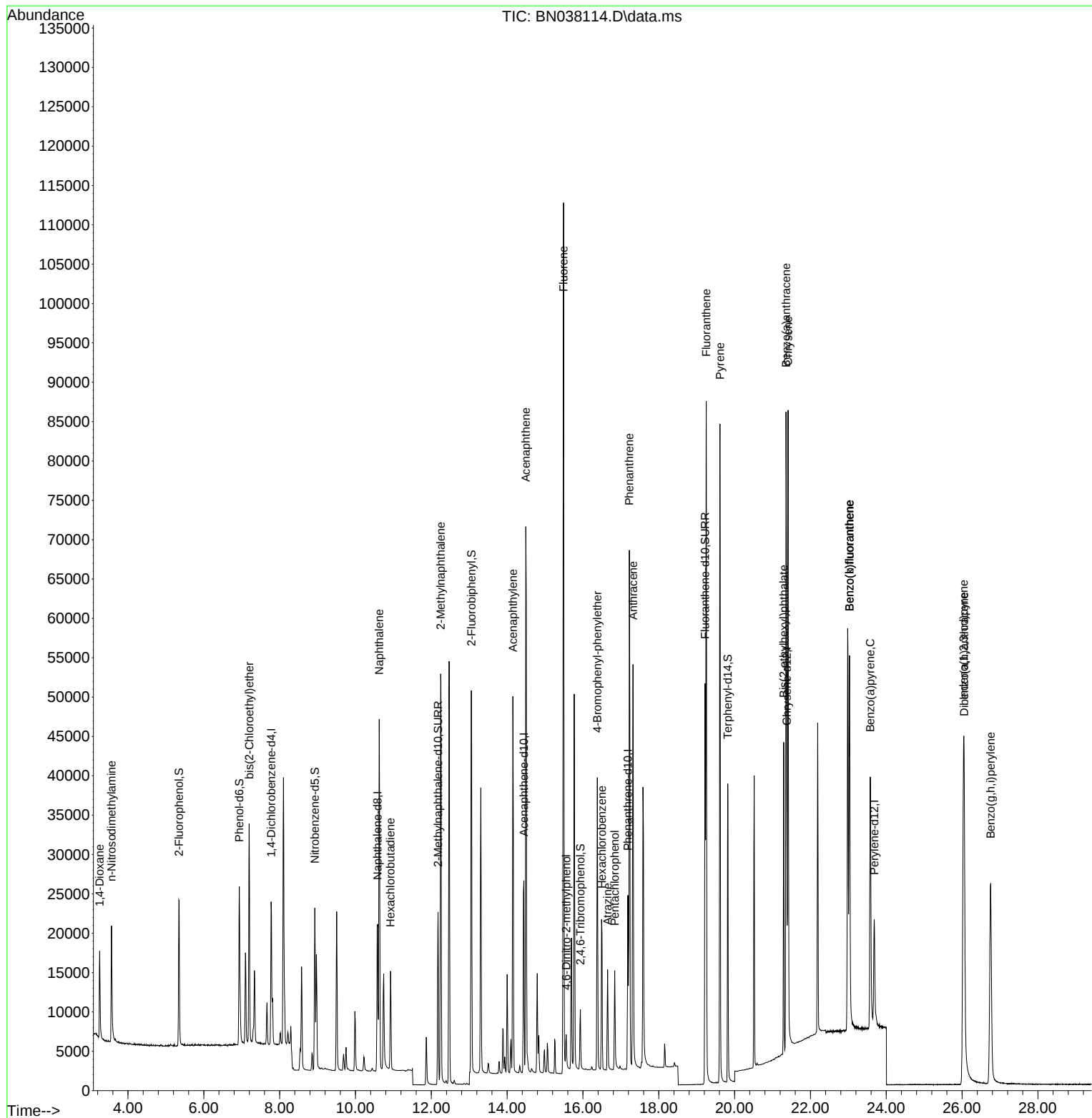
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.775  | 152  | 9110     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.584 | 136  | 27131    | 0.400 | ng    | 0.01     |
| 13) Acenaphthene-d10          | 14.441 | 164  | 14920    | 0.400 | ng    | 0.01     |
| 19) Phenanthrene-d10          | 17.186 | 188  | 28506    | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 21.375 | 240  | 23535    | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.683 | 264  | 20307    | 0.400 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.348  | 112  | 16552    | 0.771 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.937  | 99   | 19989    | 0.765 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.929  | 82   | 16332    | 0.746 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 12.177 | 152  | 29806    | 0.769 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.932 | 330  | 4525     | 0.736 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 13.062 | 172  | 46843    | 0.784 | ng    | 0.01     |
| 27) Fluoranthene-d10          | 19.220 | 212  | 55912    | 0.778 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.819 | 244  | 37975    | 0.743 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| Target Compounds              |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.254  | 88   | 7707     | 0.819 | ng    | 99       |
| 3) n-Nitrosodimethylamine     | 3.564  | 42   | 9598     | 0.792 | ng    | # 100    |
| 6) bis(2-Chloroethyl)ether    | 7.197  | 93   | 20444    | 0.796 | ng    | 99       |
| 9) Naphthalene                | 10.626 | 128  | 58627    | 0.784 | ng    | 99       |
| 10) Hexachlorobutadiene       | 10.925 | 225  | 9875     | 0.783 | ng    | # 98     |
| 12) 2-Methylnaphthalene       | 12.248 | 142  | 38674    | 0.776 | ng    | 98       |
| 16) Acenaphthylene            | 14.152 | 152  | 52624    | 0.779 | ng    | 99       |
| 17) Acenaphthene              | 14.494 | 154  | 36845    | 0.779 | ng    | 100      |
| 18) Fluorene                  | 15.489 | 166  | 49204    | 0.794 | ng    | 100      |
| 20) 4,6-Dinitro-2-methylph... | 15.560 | 198  | 2898     | 0.689 | ng    | # 69     |
| 21) 4-Bromophenyl-phenylether | 16.379 | 248  | 14571    | 0.780 | ng    | 97       |
| 22) Hexachlorobenzene         | 16.503 | 284  | 16700    | 0.786 | ng    | 99       |
| 23) Atrazine                  | 16.652 | 200  | 10204    | 0.745 | ng    | 99       |
| 24) Pentachlorophenol         | 16.838 | 266  | 6470     | 0.707 | ng    | 99       |
| 25) Phenanthrene              | 17.223 | 178  | 70455    | 0.779 | ng    | 100      |
| 26) Anthracene                | 17.322 | 178  | 60270    | 0.761 | ng    | 100      |
| 28) Fluoranthene              | 19.253 | 202  | 79478    | 0.786 | ng    | 100      |
| 30) Pyrene                    | 19.615 | 202  | 78307    | 0.737 | ng    | 100      |
| 32) Benzo(a)anthracene        | 21.357 | 228  | 64140    | 0.764 | ng    | 100      |
| 33) Chrysene                  | 21.411 | 228  | 71675    | 0.787 | ng    | 100      |
| 34) Bis(2-ethylhexyl)phtha... | 21.295 | 149  | 32963    | 0.745 | ng    | 99       |
| 36) Indeno(1,2,3-cd)pyrene    | 26.039 | 276  | 65796    | 0.789 | ng    | 99       |
| 37) Benzo(b)fluoranthene      | 23.031 | 252  | 67771    | 0.781 | ng    | 94       |
| 38) Benzo(k)fluoranthene      | 23.031 | 252  | 67771    | 0.776 | ng    | # 93     |
| 39) Benzo(a)pyrene            | 23.578 | 252  | 53367    | 0.768 | ng    | # 90     |
| 40) Dibenzo(a,h)anthracene    | 26.054 | 278  | 50344    | 0.784 | ng    | 95       |
| 41) Benzo(g,h,i)perylene      | 26.753 | 276  | 58155    | 0.793 | ng    | 99       |
| -----                         |        |      |          |       |       |          |

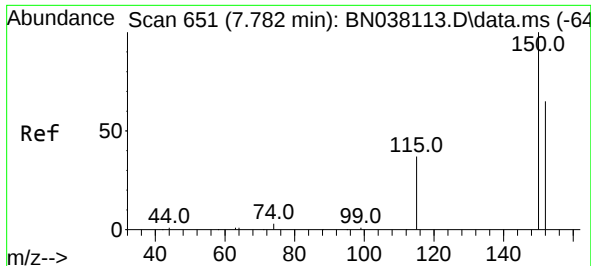
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN038114.D  
Acq On : 28 Oct 2025 14:49  
Operator : RC/JU  
Sample : SSTDICC0.8  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

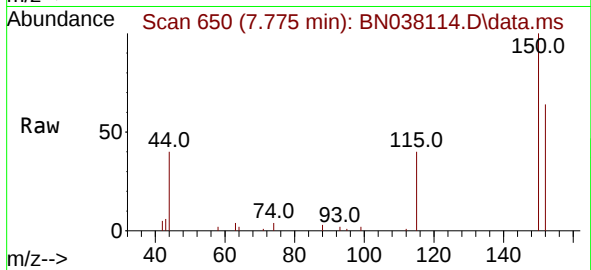
Quant Time: Oct 28 17:31:46 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN102825.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Oct 28 17:15:13 2025  
Response via : Initial Calibration



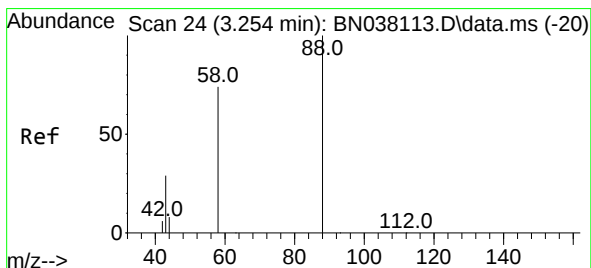
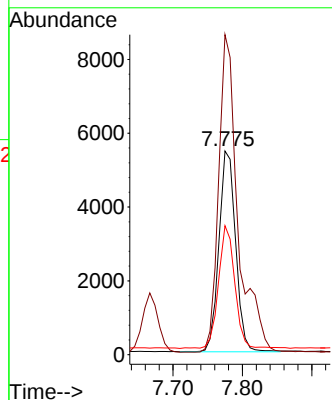
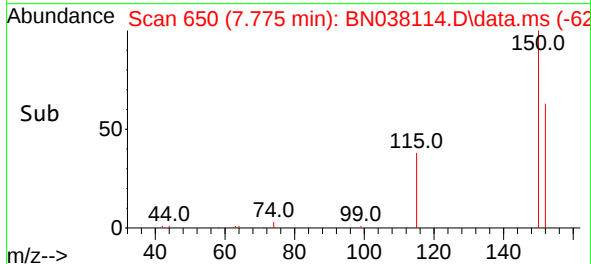


#1  
 1,4-Dichlorobenzene-d4  
 Concen: 0.400 ng  
 RT: 7.775 min Scan# 61  
 Delta R.T. -0.000 min  
 Lab File: BN038114.D  
 Acq: 28 Oct 2025 14:49

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC0.8

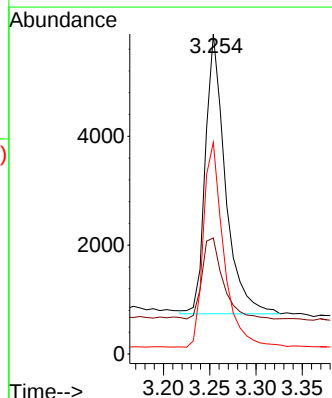
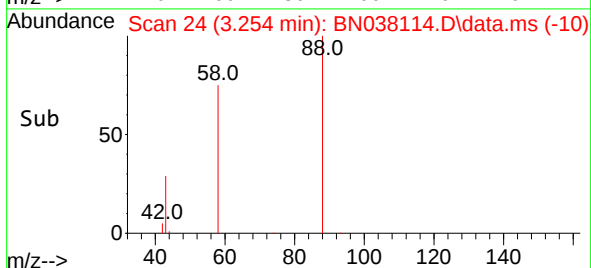
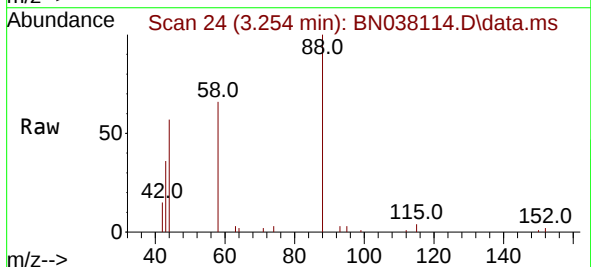


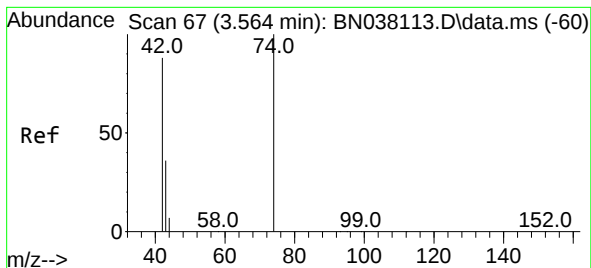
Tgt Ion:152 Resp: 9110  
 Ion Ratio Lower Upper  
 152 100  
 150 157.1 122.3 183.5  
 115 63.4 47.4 71.0



#2  
 1,4-Dioxane  
 Concen: 0.819 ng  
 RT: 3.254 min Scan# 24  
 Delta R.T. -0.000 min  
 Lab File: BN038114.D  
 Acq: 28 Oct 2025 14:49

Tgt Ion: 88 Resp: 7707  
 Ion Ratio Lower Upper  
 88 100  
 43 30.6 24.3 36.5  
 58 74.3 60.4 90.6





#3

n-Nitrosodimethylamine

Concen: 0.792 ng

RT: 3.564 min Scan# 61

Delta R.T. 0.007 min

Lab File: BN038114.D

Acq: 28 Oct 2025 14:49

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8

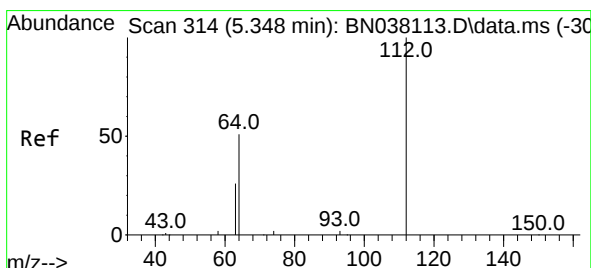
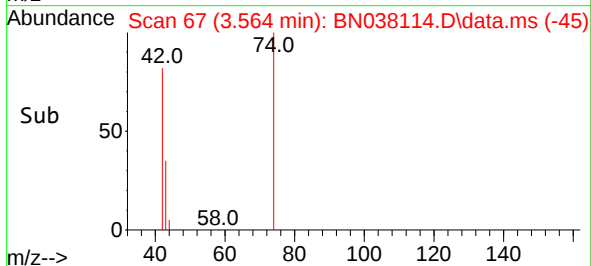
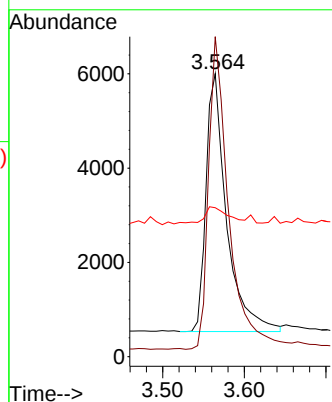
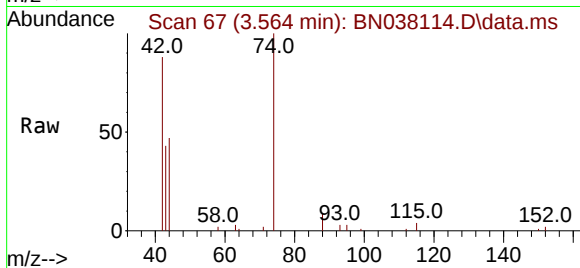
Tgt Ion: 42 Resp: 9598

Ion Ratio Lower Upper

42 100

74 120.8 96.8 145.2

44 8.8 5.3 7.9#



#4

2-Fluorophenol

Concen: 0.771 ng

RT: 5.348 min Scan# 314

Delta R.T. -0.000 min

Lab File: BN038114.D

Acq: 28 Oct 2025 14:49

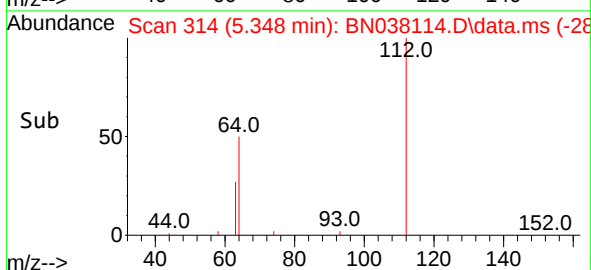
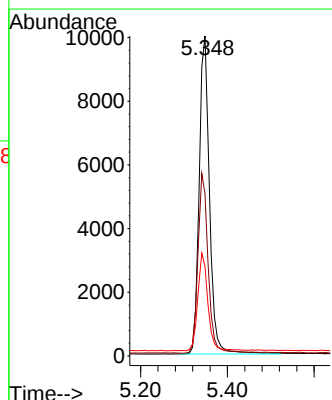
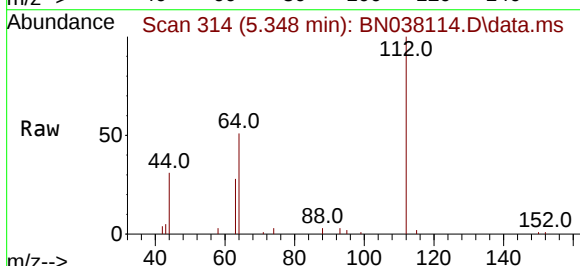
Tgt Ion: 112 Resp: 16552

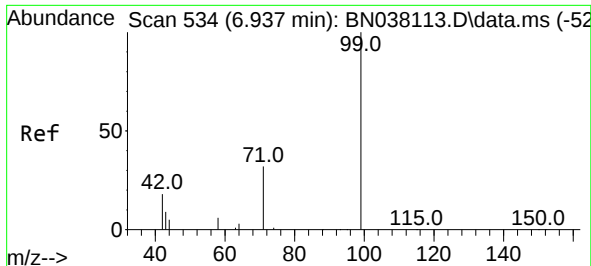
Ion Ratio Lower Upper

112 100

64 55.7 45.4 68.0

63 30.2 23.2 34.8

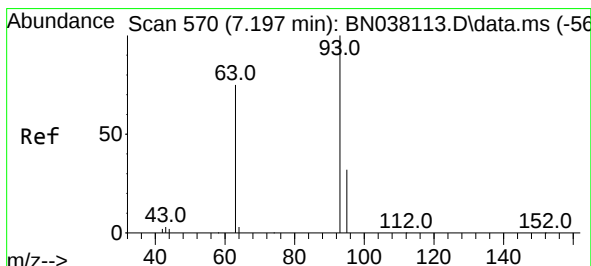
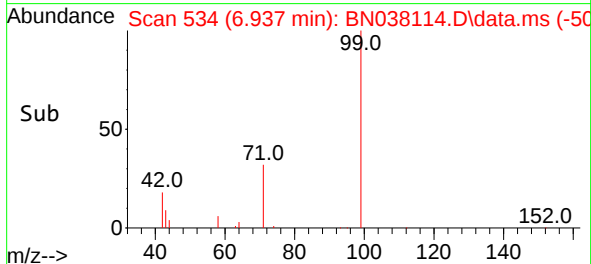
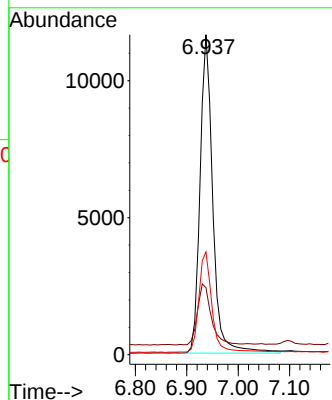
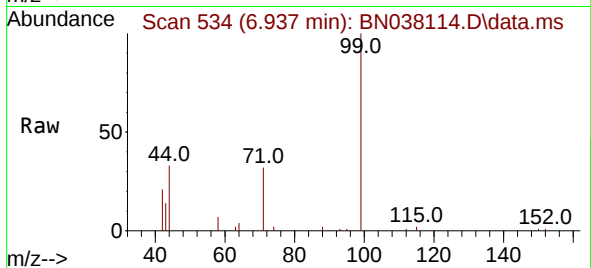




#5  
Phenol-d6  
Concen: 0.765 ng  
RT: 6.937 min Scan# 51  
Delta R.T. -0.000 min  
Lab File: BN038114.D  
Acq: 28 Oct 2025 14:49

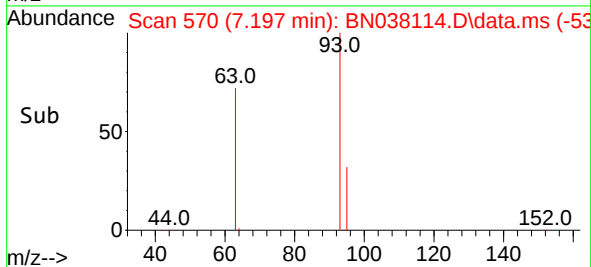
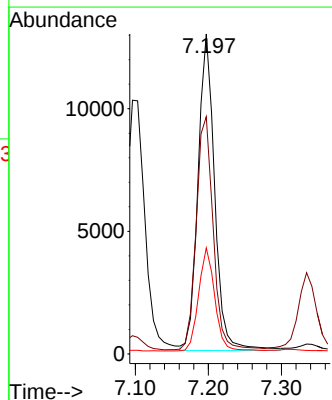
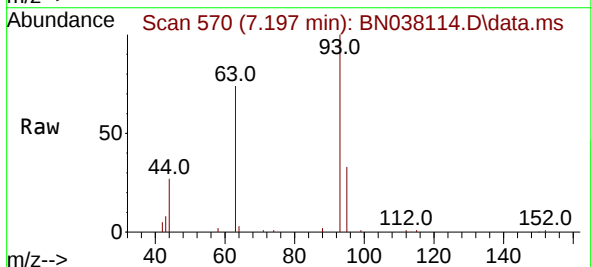
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ClientSampleId :  
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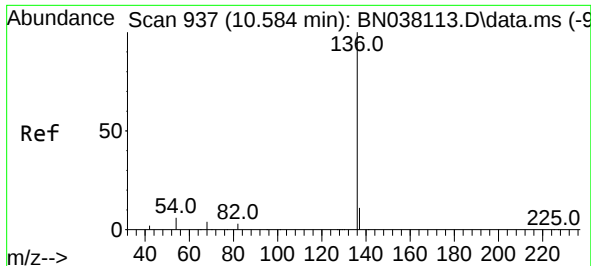
Tgt Ion: 99 Resp: 19989  
Ion Ratio Lower Upper  
99 100  
42 20.7 16.6 24.8  
71 33.2 25.4 38.2



#6  
bis(2-Chloroethyl)ether  
Concen: 0.796 ng  
RT: 7.197 min Scan# 570  
Delta R.T. -0.000 min  
Lab File: BN038114.D  
Acq: 28 Oct 2025 14:49

Tgt Ion: 93 Resp: 20444  
Ion Ratio Lower Upper  
93 100  
63 75.0 59.3 88.9  
95 31.6 25.2 37.8

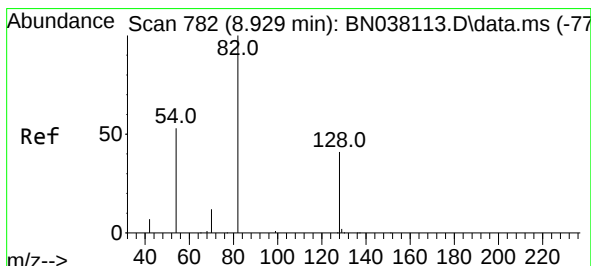
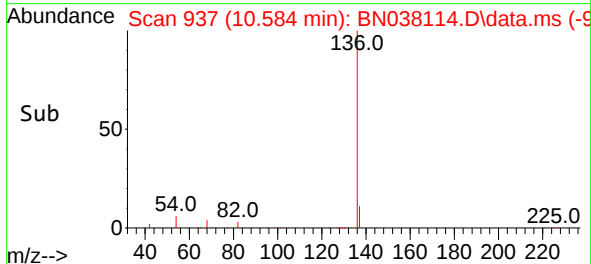
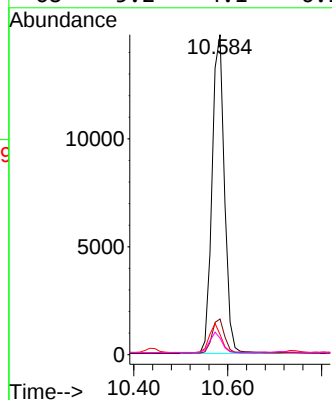
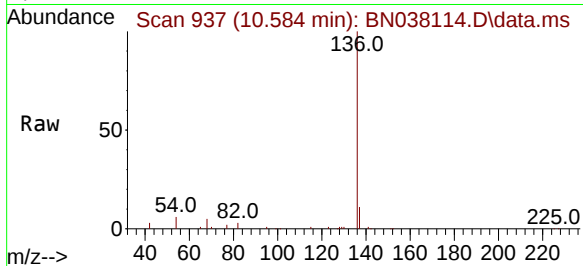




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.584 min Scan# 91  
Delta R.T. 0.011 min  
Lab File: BN038114.D  
Acq: 28 Oct 2025 14:49

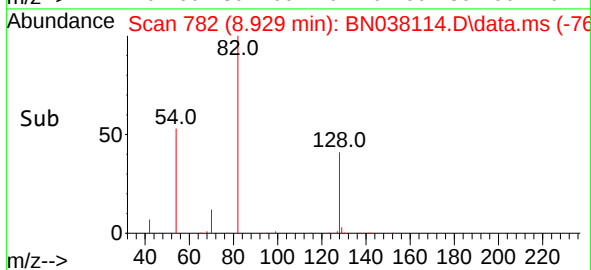
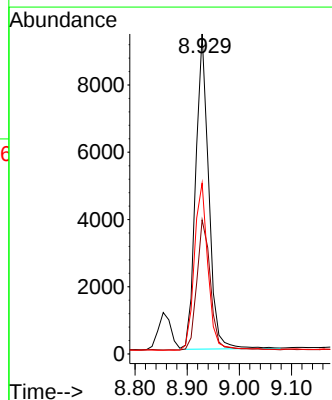
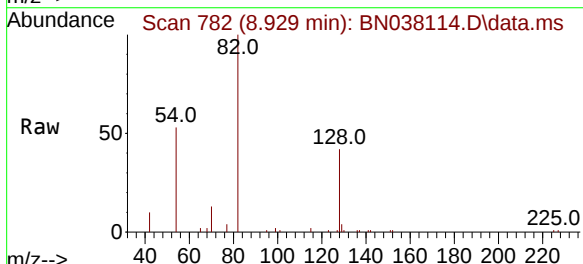
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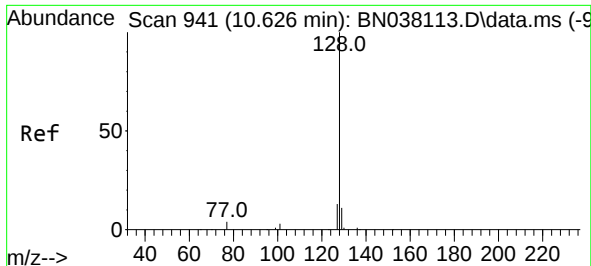
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 27131 |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 11.1  | 9.0   | 13.4  |
| 54       | 6.3   | 5.2   | 7.8   |
| 68       | 5.2   | 4.1   | 6.1   |



#8  
Nitrobenzene-d5  
Concen: 0.746 ng  
RT: 8.929 min Scan# 782  
Delta R.T. -0.000 min  
Lab File: BN038114.D  
Acq: 28 Oct 2025 14:49

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 16332 |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 41.9  | 34.1  | 51.1  |
| 54       | 53.4  | 43.5  | 65.3  |

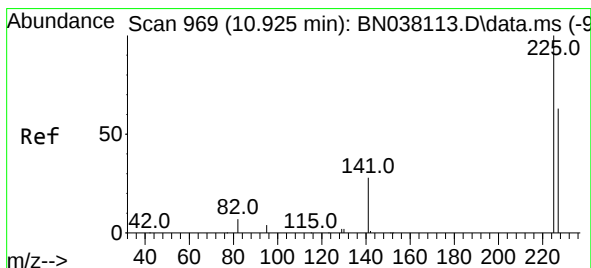
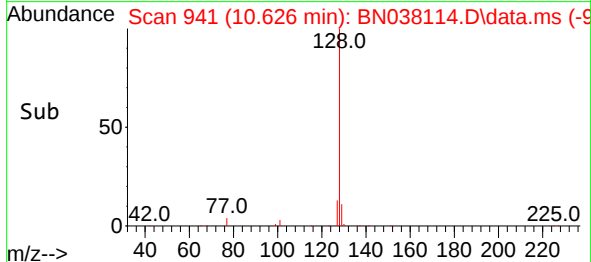
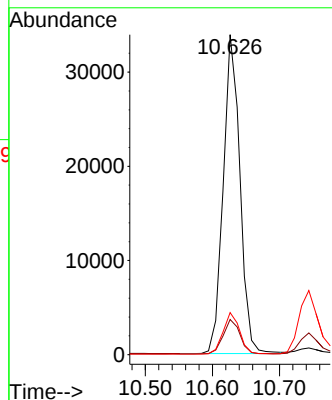
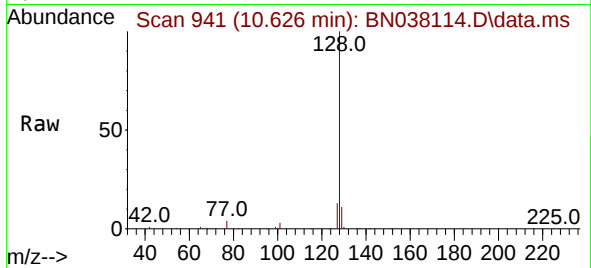




#9  
Naphthalene  
Concen: 0.784 ng  
RT: 10.626 min Scan# 941  
Delta R.T. -0.000 min  
Lab File: BN038114.D  
Acq: 28 Oct 2025 14:49

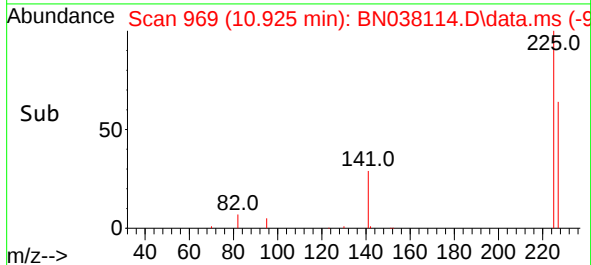
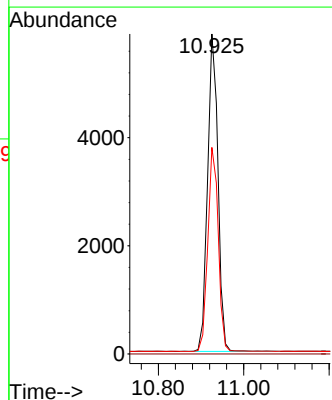
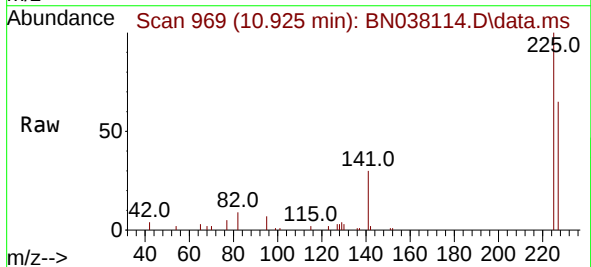
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ClientSampleId :  
SSTDICC0.8

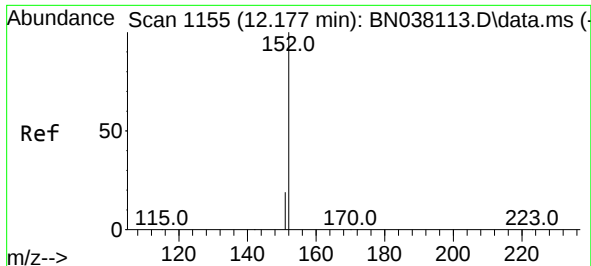
Tgt Ion:128 Resp: 58627  
Ion Ratio Lower Upper  
128 100  
129 11.0 9.1 13.7  
127 13.2 10.5 15.7



#10  
Hexachlorobutadiene  
Concen: 0.783 ng  
RT: 10.925 min Scan# 969  
Delta R.T. -0.000 min  
Lab File: BN038114.D  
Acq: 28 Oct 2025 14:49

Tgt Ion:225 Resp: 9875  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 64.8 50.3 75.5

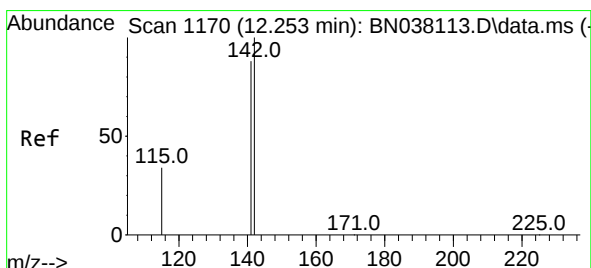
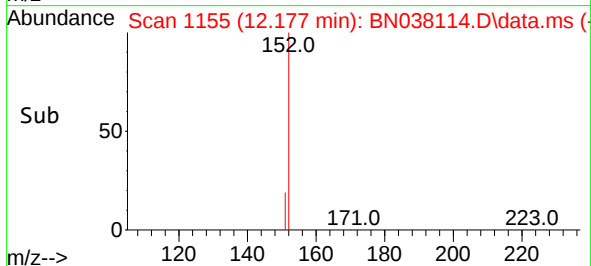
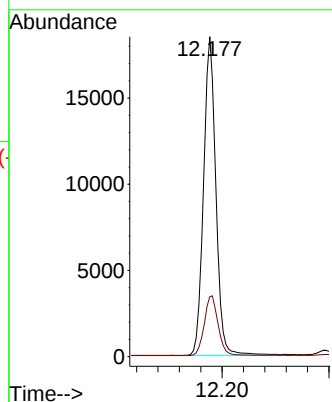
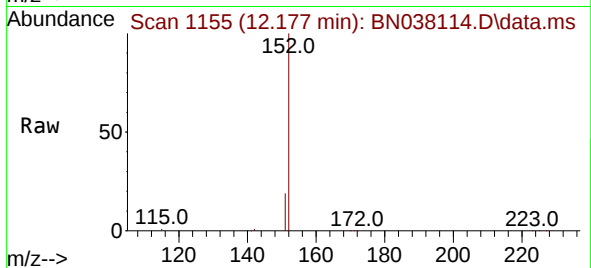




#11  
2-Methylnaphthalene-d10  
Concen: 0.769 ng  
RT: 12.177 min Scan# 1155  
Delta R.T. -0.000 min  
Lab File: BN038114.D  
Acq: 28 Oct 2025 14:49

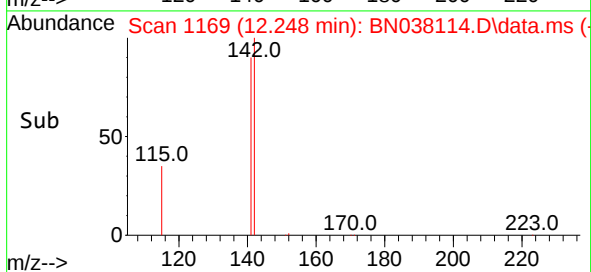
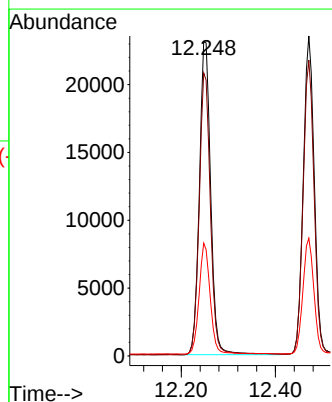
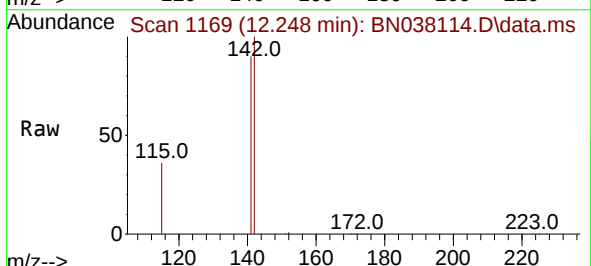
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ClientSampleId :  
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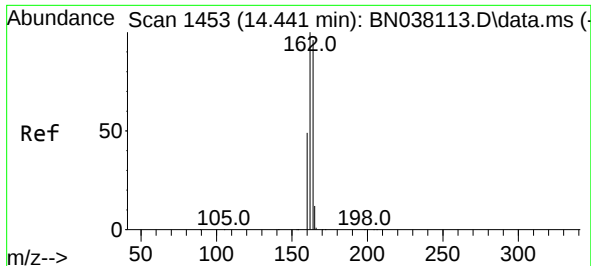
Tgt Ion:152 Resp: 29806  
Ion Ratio Lower Upper  
152 100  
151 21.2 16.8 25.2



#12  
2-Methylnaphthalene  
Concen: 0.776 ng  
RT: 12.248 min Scan# 1169  
Delta R.T. -0.000 min  
Lab File: BN038114.D  
Acq: 28 Oct 2025 14:49

Tgt Ion:142 Resp: 38674  
Ion Ratio Lower Upper  
142 100  
141 90.1 70.3 105.5  
115 35.9 27.8 41.6

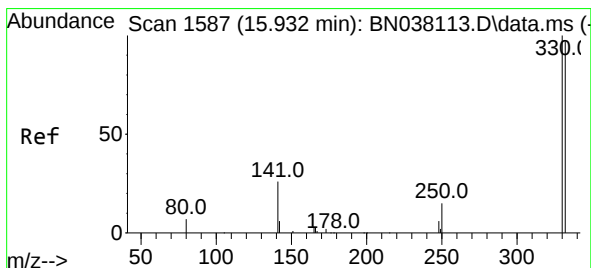
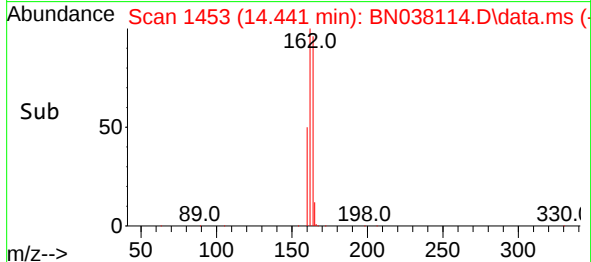
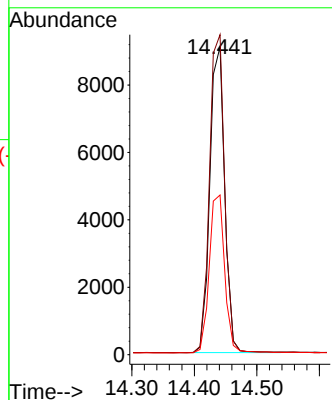
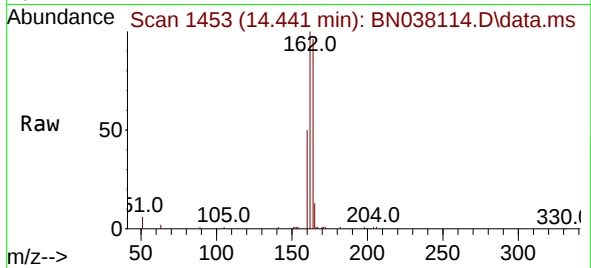




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.441 min Scan# 1453  
Delta R.T. 0.011 min  
Lab File: BN038114.D  
Acq: 28 Oct 2025 14:49

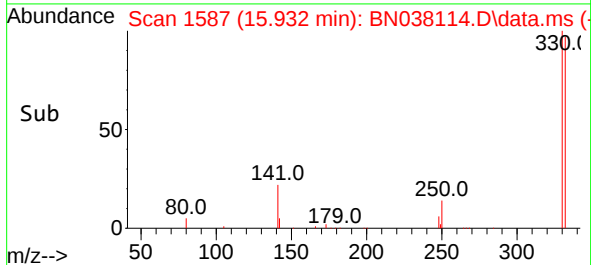
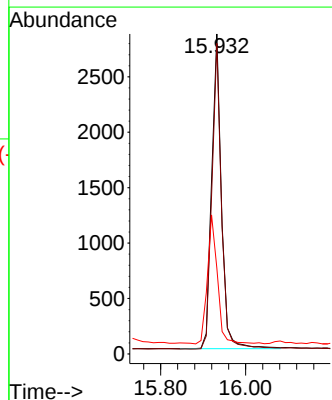
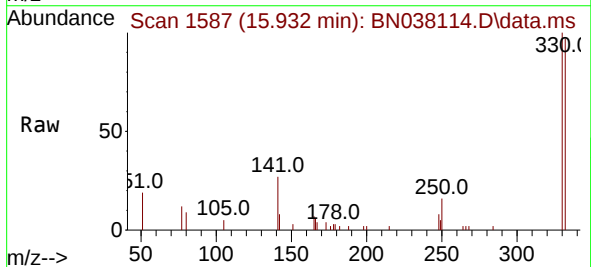
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ClientSampleId :  
SSTDICC0.8

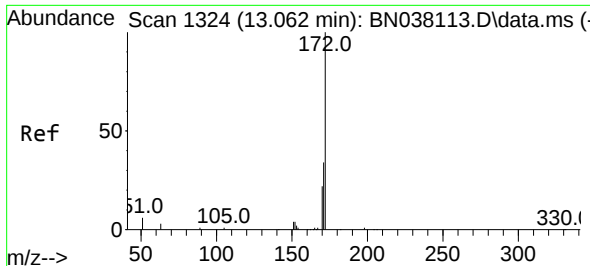
Tgt Ion:164 Resp: 14920  
Ion Ratio Lower Upper  
164 100  
162 104.0 83.0 124.4  
160 51.9 40.7 61.1



#14  
2,4,6-Tribromophenol  
Concen: 0.736 ng  
RT: 15.932 min Scan# 1587  
Delta R.T. 0.000 min  
Lab File: BN038114.D  
Acq: 28 Oct 2025 14:49

Tgt Ion:330 Resp: 4525  
Ion Ratio Lower Upper  
330 100  
332 95.3 76.6 114.8  
141 41.9 34.1 51.1

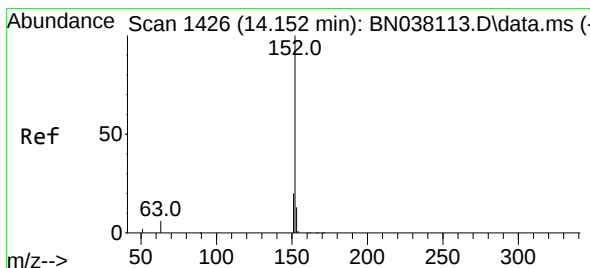
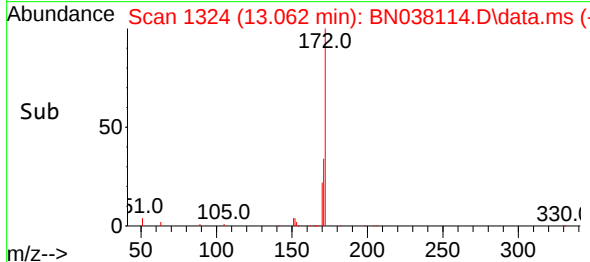
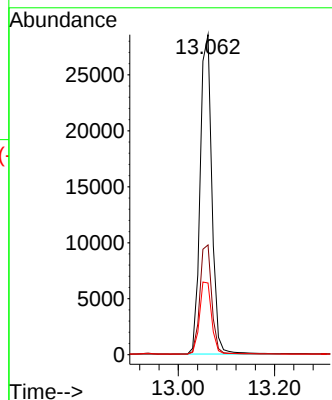
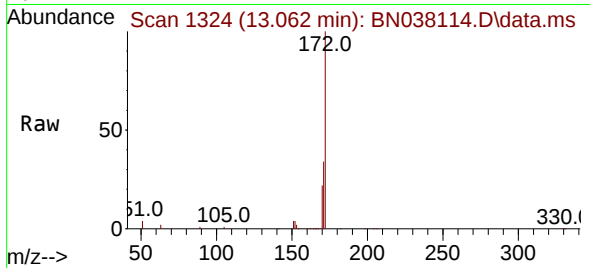




#15  
2-Fluorobiphenyl  
Concen: 0.784 ng  
RT: 13.062 min Scan# 1324  
Delta R.T. 0.011 min  
Lab File: BN038114.D  
Acq: 28 Oct 2025 14:49

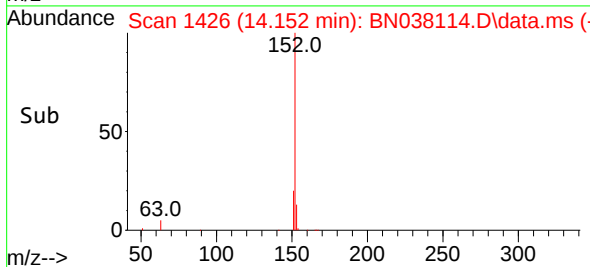
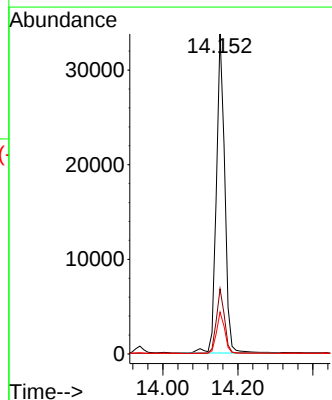
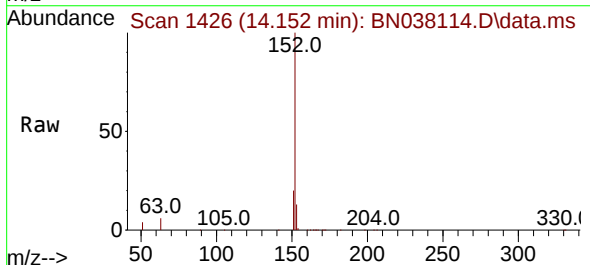
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

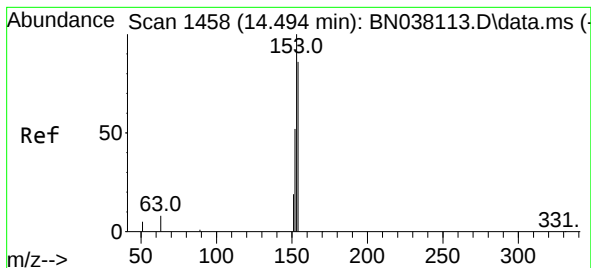
Tgt Ion:172 Resp: 46843  
Ion Ratio Lower Upper  
172 100  
171 34.3 27.8 41.6  
170 22.4 18.1 27.1



#16  
Acenaphthylene  
Concen: 0.779 ng  
RT: 14.152 min Scan# 1426  
Delta R.T. -0.000 min  
Lab File: BN038114.D  
Acq: 28 Oct 2025 14:49

Tgt Ion:152 Resp: 52624  
Ion Ratio Lower Upper  
152 100  
151 19.5 15.8 23.8  
153 12.9 10.2 15.2





#17

Acenaphthene

Concen: 0.779 ng

RT: 14.494 min Scan# 1458

Delta R.T. -0.000 min

Lab File: BN038114.D

Acq: 28 Oct 2025 14:49

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8

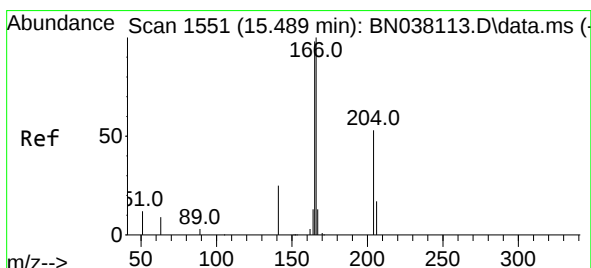
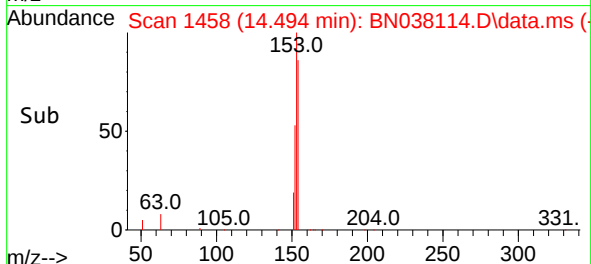
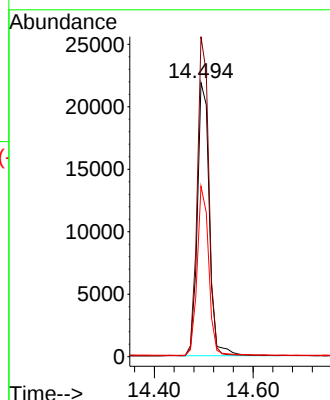
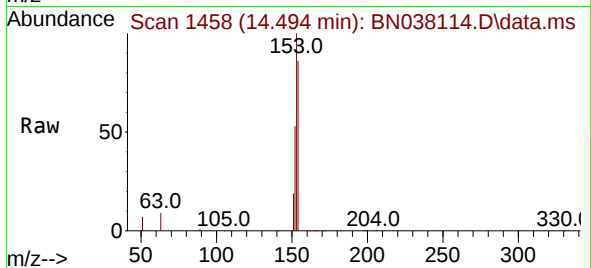
Tgt Ion:154 Resp: 36845

Ion Ratio Lower Upper

154 100

153 112.3 90.0 135.0

152 59.3 47.3 70.9



#18

Fluorene

Concen: 0.794 ng

RT: 15.489 min Scan# 1551

Delta R.T. -0.000 min

Lab File: BN038114.D

Acq: 28 Oct 2025 14:49

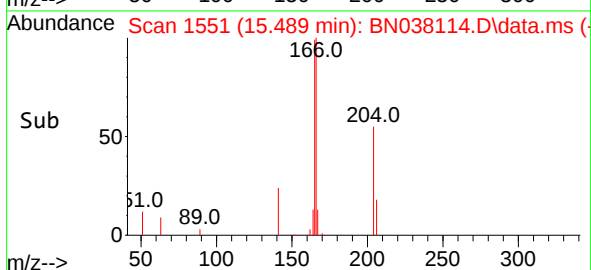
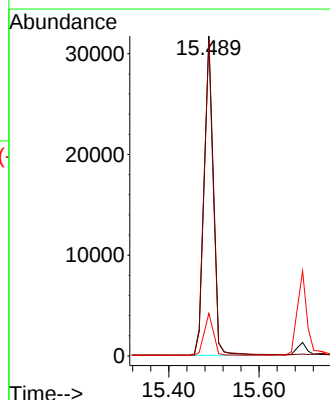
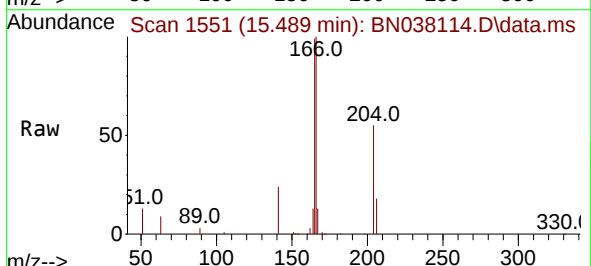
Tgt Ion:166 Resp: 49204

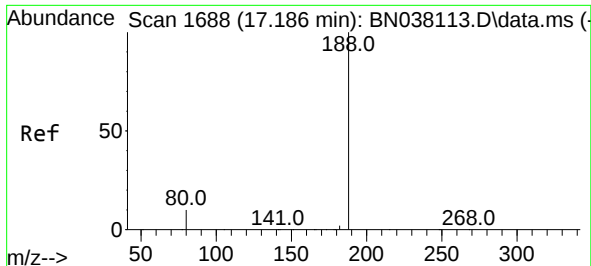
Ion Ratio Lower Upper

166 100

165 98.7 79.0 118.4

167 13.3 10.7 16.1

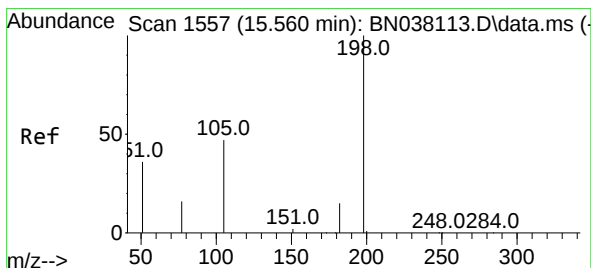
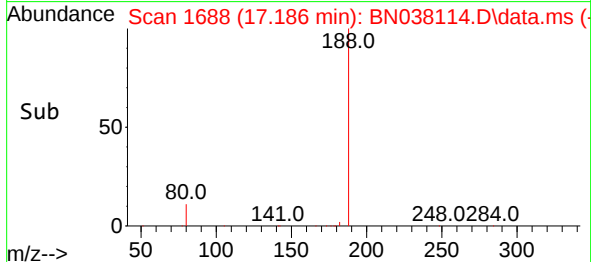
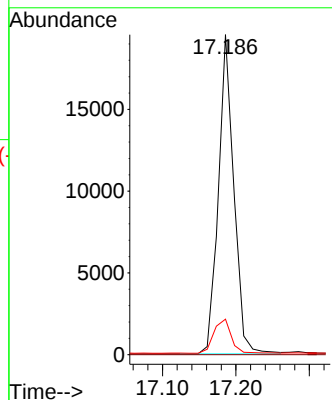
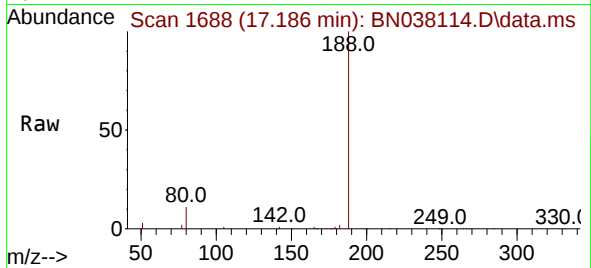




#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 17.186 min Scan# 1688  
Delta R.T. -0.000 min  
Lab File: BN038114.D  
Acq: 28 Oct 2025 14:49

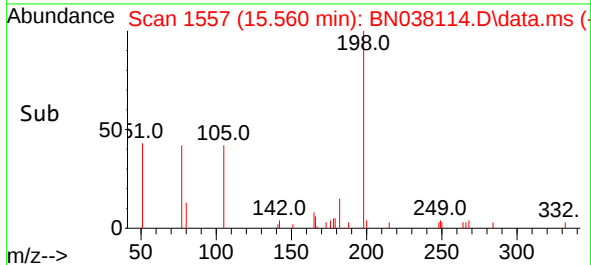
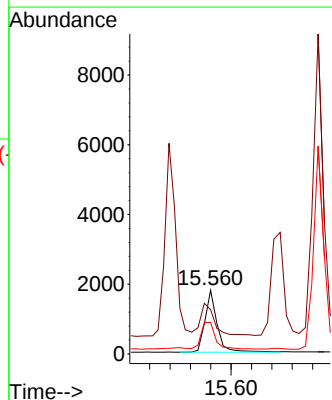
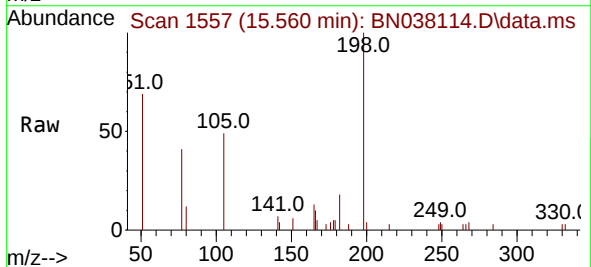
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

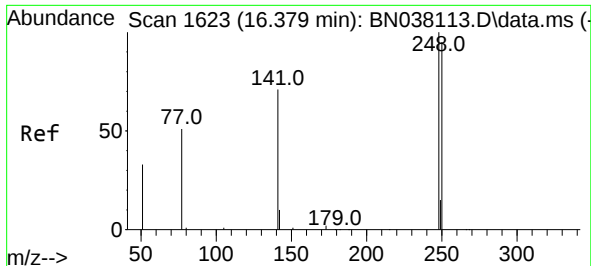
Tgt Ion:188 Resp: 28506  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 11.1 8.6 13.0



#20  
4,6-Dinitro-2-methylphenol  
Concen: 0.689 ng  
RT: 15.560 min Scan# 1557  
Delta R.T. -0.000 min  
Lab File: BN038114.D  
Acq: 28 Oct 2025 14:49

Tgt Ion:198 Resp: 2898  
Ion Ratio Lower Upper  
198 100  
51 69.5 88.9 133.3#  
105 49.4 49.2 73.8

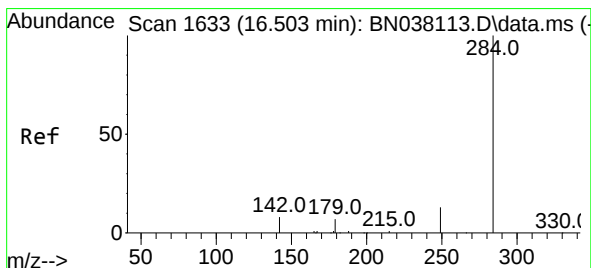
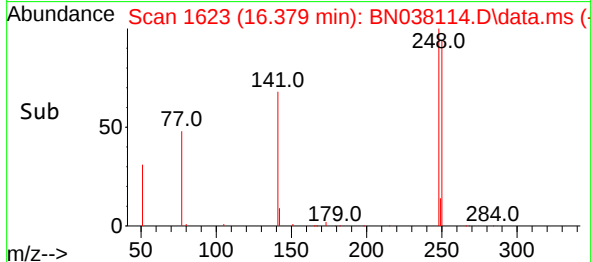
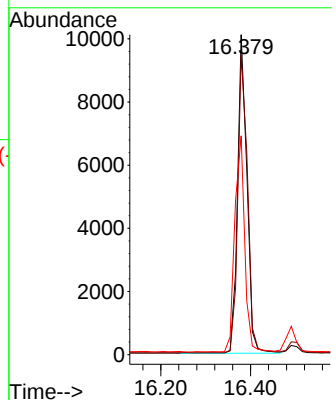
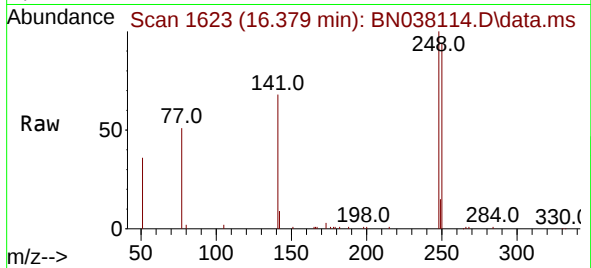




#21  
4-Bromophenyl-phenylether  
Concen: 0.780 ng  
RT: 16.379 min Scan# 1623  
Delta R.T. -0.000 min  
Lab File: BN038114.D  
Acq: 28 Oct 2025 14:49

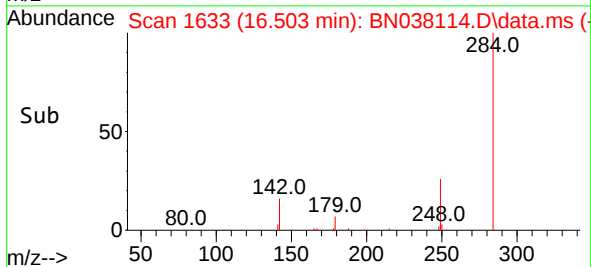
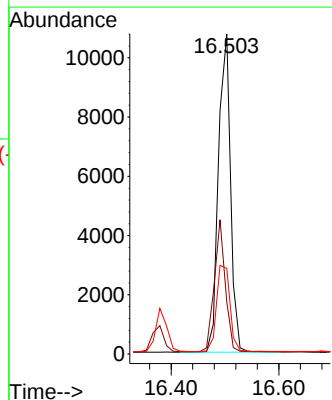
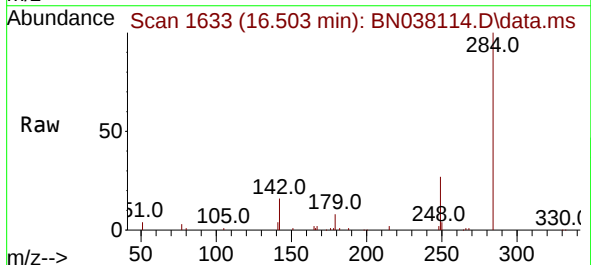
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

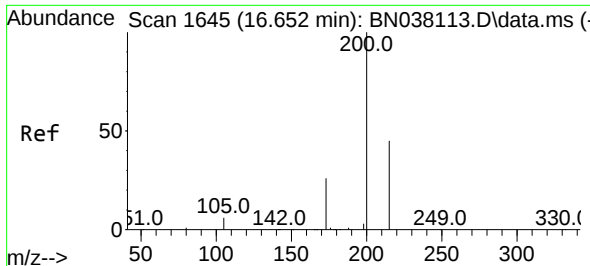
Tgt Ion:248 Resp: 14571  
Ion Ratio Lower Upper  
248 100  
250 93.7 76.2 114.2  
141 68.4 57.6 86.4



#22  
Hexachlorobenzene  
Concen: 0.786 ng  
RT: 16.503 min Scan# 1633  
Delta R.T. -0.000 min  
Lab File: BN038114.D  
Acq: 28 Oct 2025 14:49

Tgt Ion:284 Resp: 16700  
Ion Ratio Lower Upper  
284 100  
142 38.0 30.5 45.7  
249 30.3 23.5 35.3

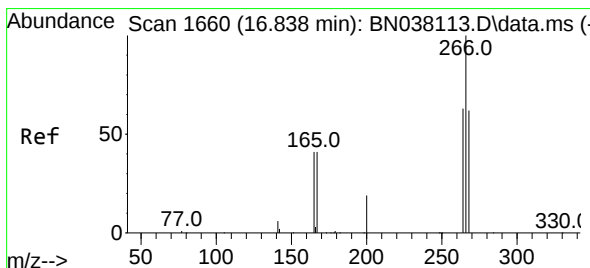
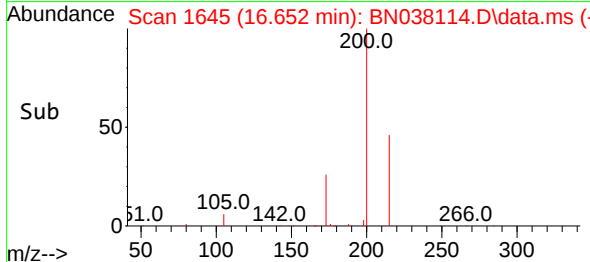
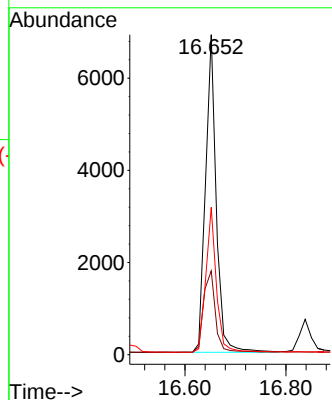
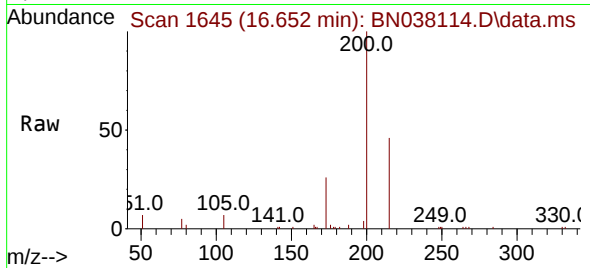




#23  
Atrazine  
Concen: 0.745 ng  
RT: 16.652 min Scan# 1645  
Delta R.T. -0.000 min  
Lab File: BN038114.D  
Acq: 28 Oct 2025 14:49

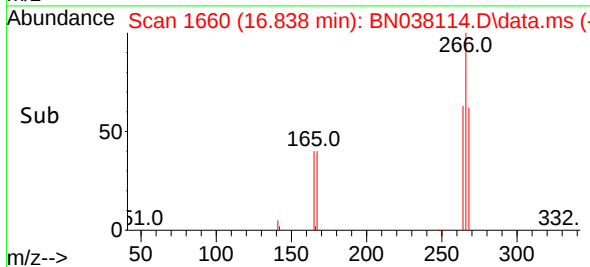
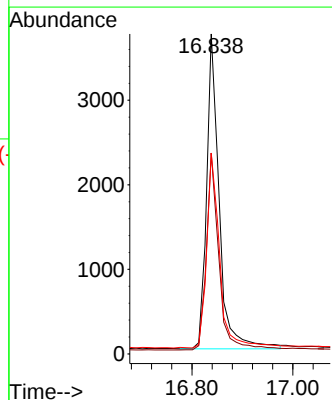
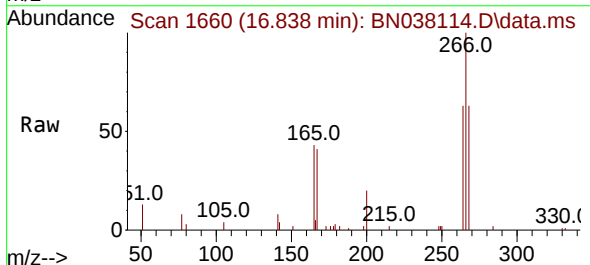
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

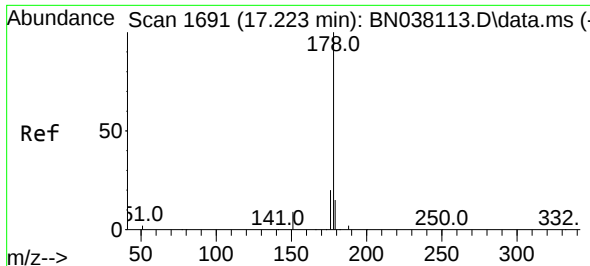
Tgt Ion:200 Resp: 10204  
Ion Ratio Lower Upper  
200 100  
173 26.2 21.4 32.2  
215 46.0 36.7 55.1



#24  
Pentachlorophenol  
Concen: 0.707 ng  
RT: 16.838 min Scan# 1660  
Delta R.T. -0.000 min  
Lab File: BN038114.D  
Acq: 28 Oct 2025 14:49

Tgt Ion:266 Resp: 6470  
Ion Ratio Lower Upper  
266 100  
264 62.0 49.3 73.9  
268 64.3 50.6 75.8

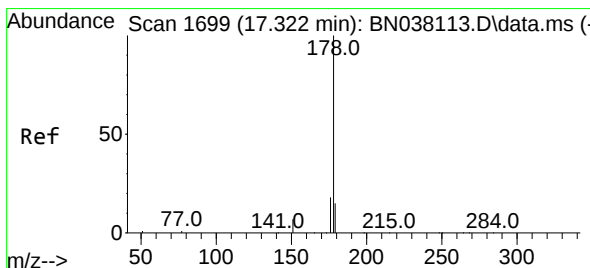
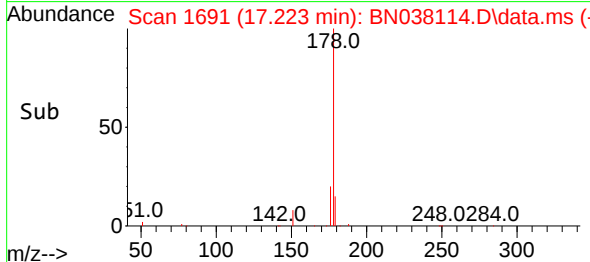
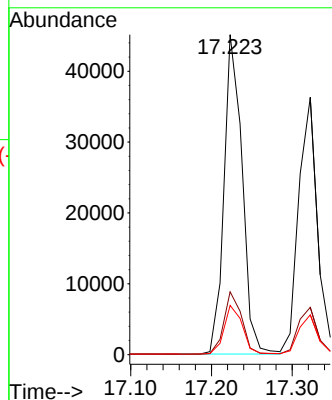
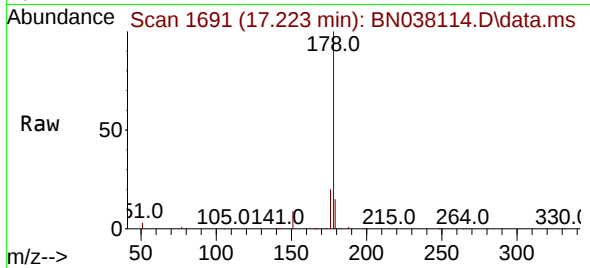




#25  
Phenanthrene  
Concen: 0.779 ng  
RT: 17.223 min Scan# 1691  
Delta R.T. -0.000 min  
Lab File: BN038114.D  
Acq: 28 Oct 2025 14:49

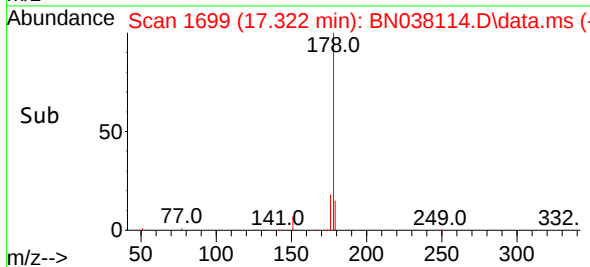
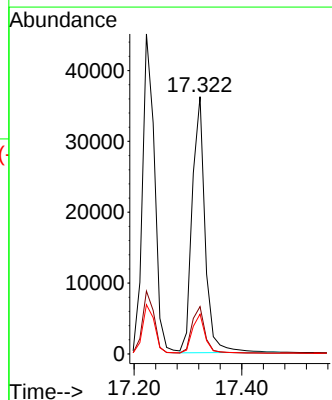
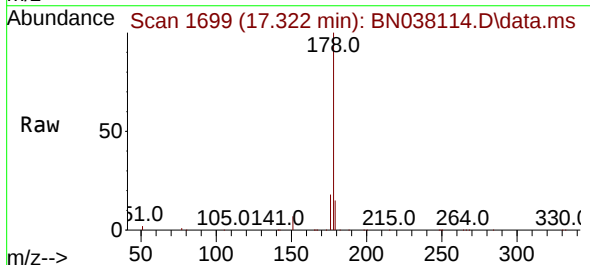
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

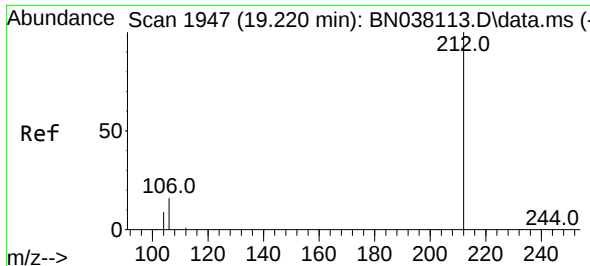
Tgt Ion:178 Resp: 70455  
Ion Ratio Lower Upper  
178 100  
176 19.2 15.5 23.3  
179 15.3 12.2 18.4



#26  
Anthracene  
Concen: 0.761 ng  
RT: 17.322 min Scan# 1699  
Delta R.T. -0.000 min  
Lab File: BN038114.D  
Acq: 28 Oct 2025 14:49

Tgt Ion:178 Resp: 60270  
Ion Ratio Lower Upper  
178 100  
176 18.6 14.9 22.3  
179 15.2 11.8 17.8

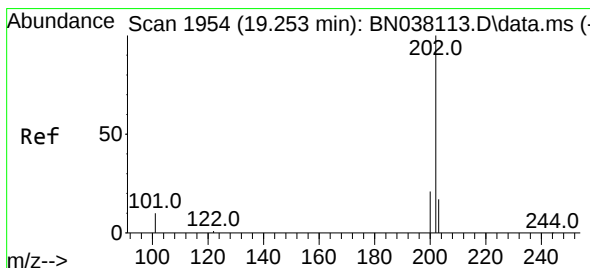
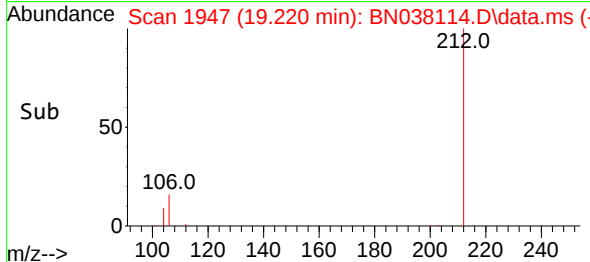
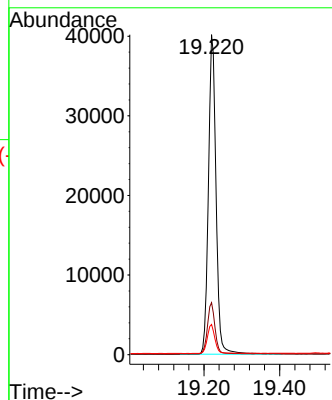
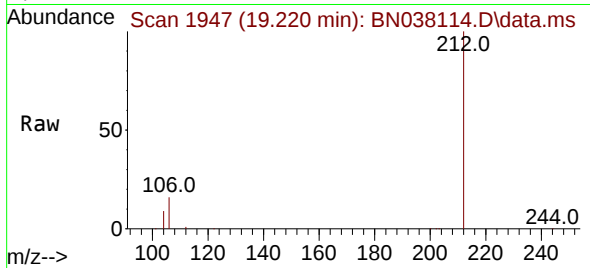




#27  
Fluoranthene-d10  
Concen: 0.778 ng  
RT: 19.220 min Scan# 1947  
Delta R.T. -0.000 min  
Lab File: BN038114.D  
Acq: 28 Oct 2025 14:49

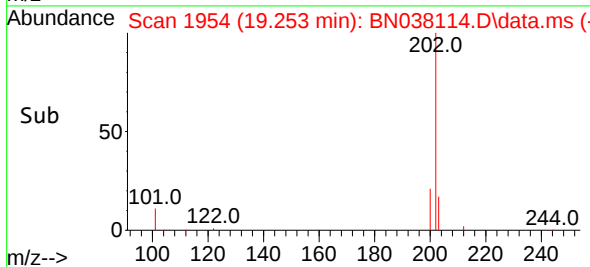
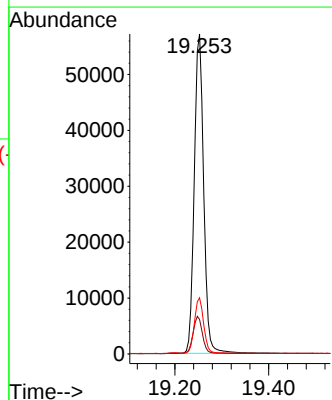
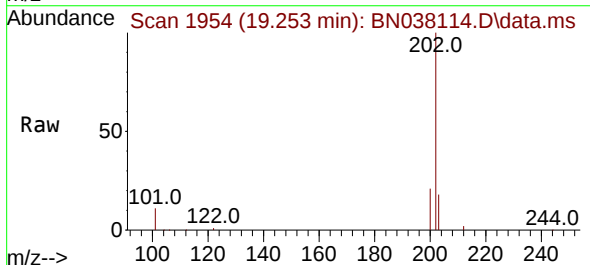
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

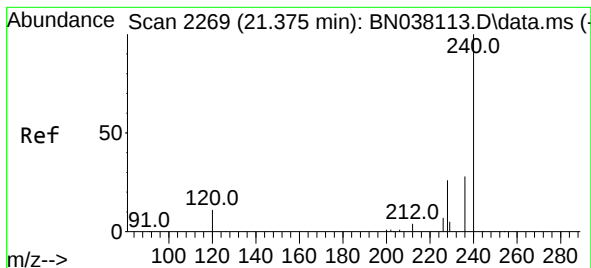
Tgt Ion:212 Resp: 55912  
Ion Ratio Lower Upper  
212 100  
106 16.0 12.6 19.0  
104 9.0 7.1 10.7



#28  
Fluoranthene  
Concen: 0.786 ng  
RT: 19.253 min Scan# 1954  
Delta R.T. -0.000 min  
Lab File: BN038114.D  
Acq: 28 Oct 2025 14:49

Tgt Ion:202 Resp: 79478  
Ion Ratio Lower Upper  
202 100  
101 11.8 9.4 14.2  
203 17.0 13.4 20.2





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.375 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN038114.D

Acq: 28 Oct 2025 14:49

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8

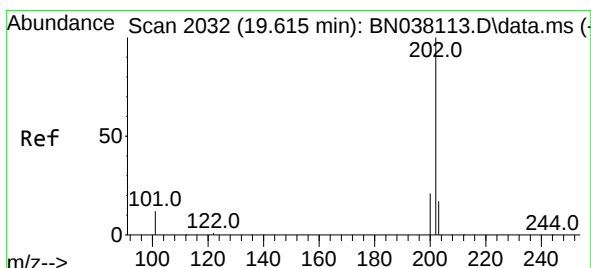
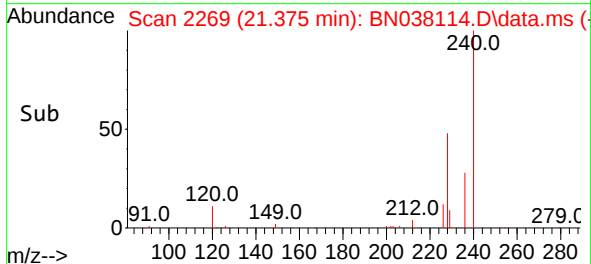
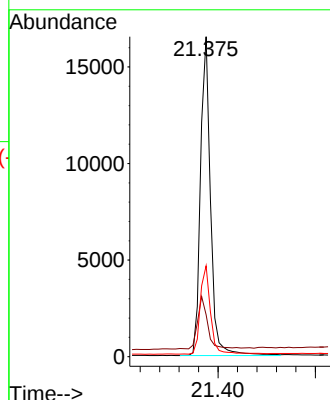
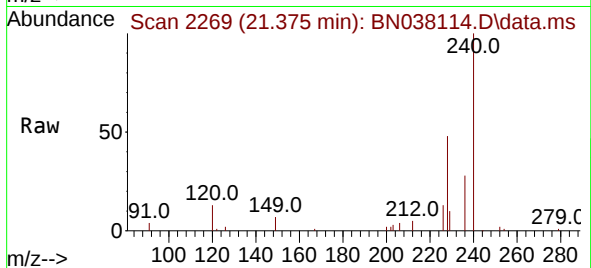
Tgt Ion:240 Resp: 23535

Ion Ratio Lower Upper

240 100

120 13.1 10.7 16.1

236 28.4 23.1 34.7



#30

Pyrene

Concen: 0.737 ng

RT: 19.615 min Scan# 2032

Delta R.T. 0.005 min

Lab File: BN038114.D

Acq: 28 Oct 2025 14:49

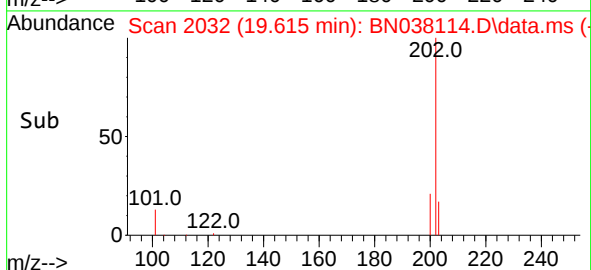
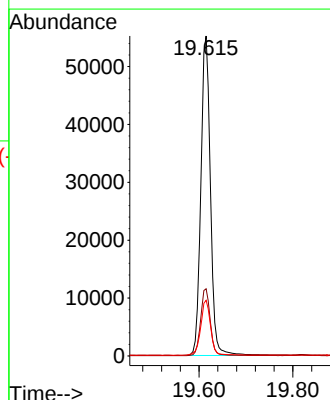
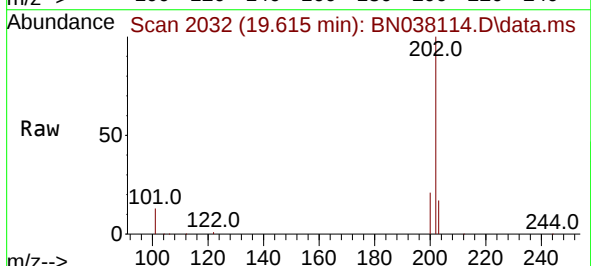
Tgt Ion:202 Resp: 78307

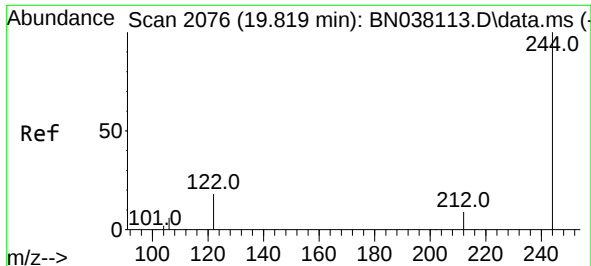
Ion Ratio Lower Upper

202 100

200 21.2 16.7 25.1

203 17.7 14.2 21.2

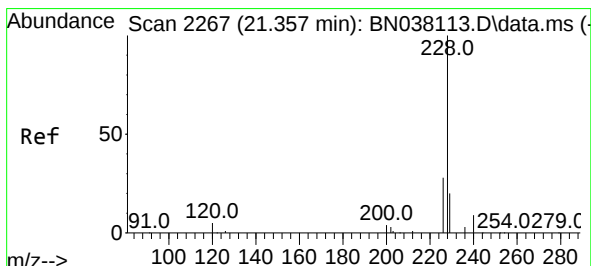
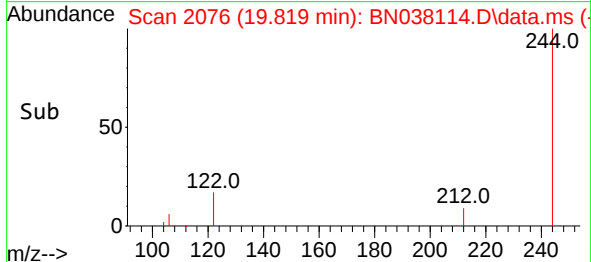
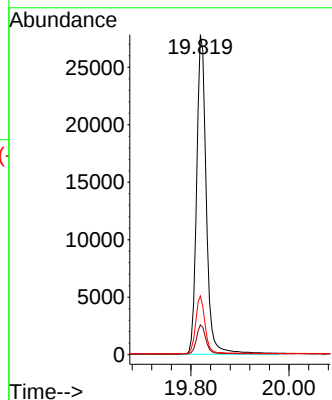
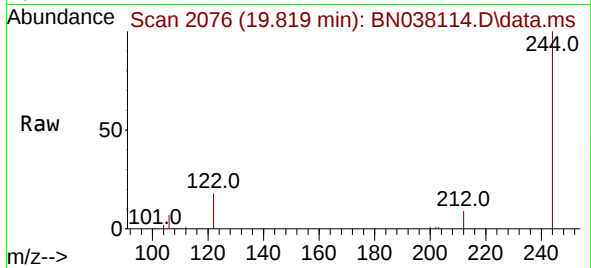




#31  
 Terphenyl-d14  
 Concen: 0.743 ng  
 RT: 19.819 min Scan# 2076  
 Delta R.T. -0.000 min  
 Lab File: BN038114.D  
 Acq: 28 Oct 2025 14:49

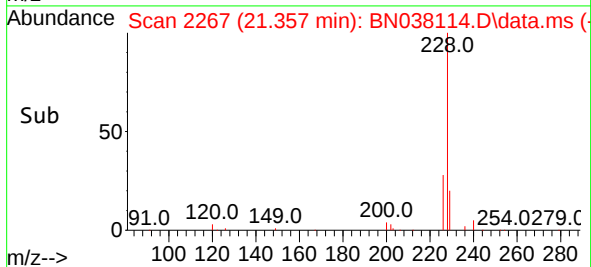
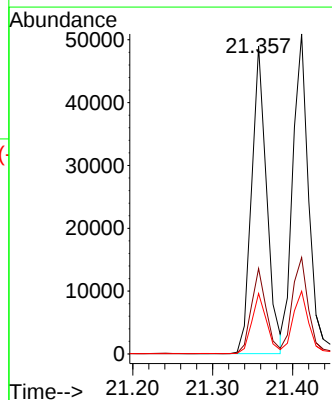
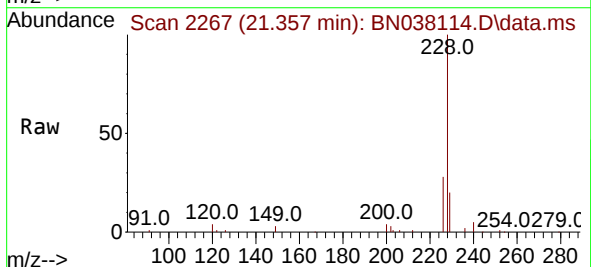
Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC0.8

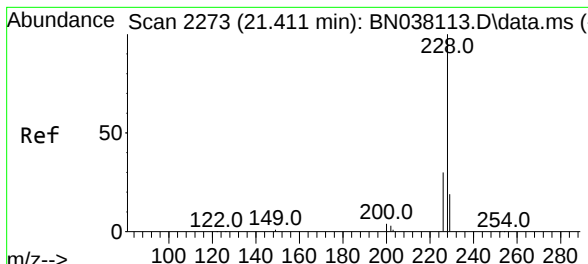
Tgt Ion:244 Resp: 37975  
 Ion Ratio Lower Upper  
 244 100  
 212 9.3 7.8 11.6  
 122 18.4 15.2 22.8



#32  
 Benzo(a)anthracene  
 Concen: 0.764 ng  
 RT: 21.357 min Scan# 2267  
 Delta R.T. -0.000 min  
 Lab File: BN038114.D  
 Acq: 28 Oct 2025 14:49

Tgt Ion:228 Resp: 64140  
 Ion Ratio Lower Upper  
 228 100  
 226 27.7 22.2 33.4  
 229 19.6 15.8 23.8

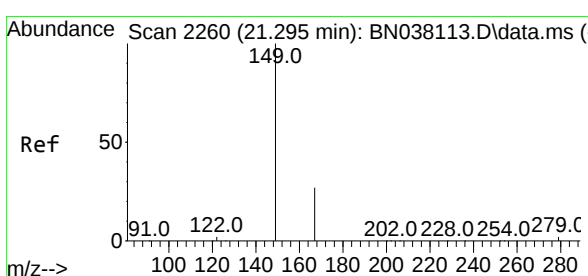
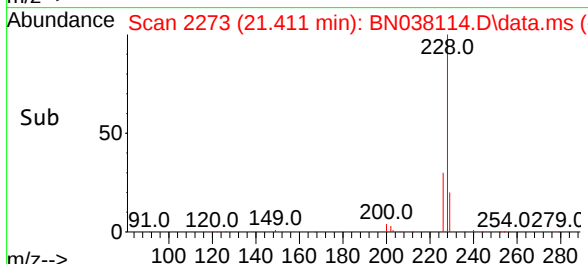
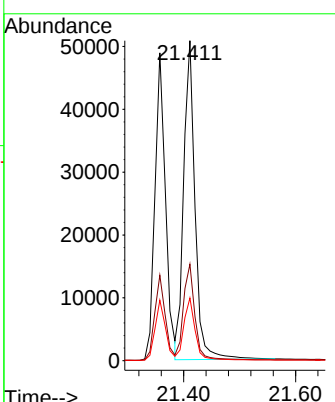
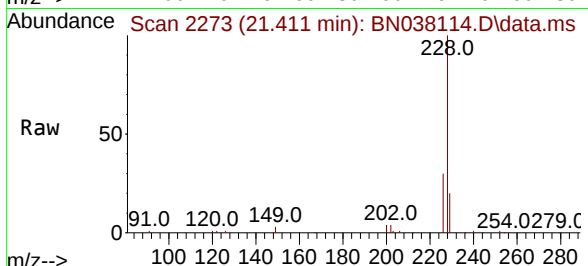




#33  
 Chrysene  
 Concen: 0.787 ng  
 RT: 21.411 min Scan# 21  
 Delta R.T. -0.000 min  
 Lab File: BN038114.D  
 Acq: 28 Oct 2025 14:49

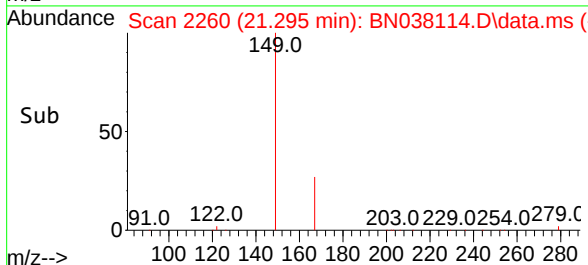
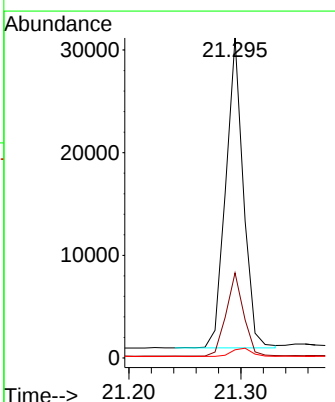
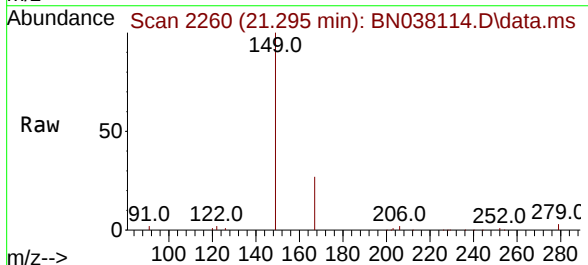
Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC0.8

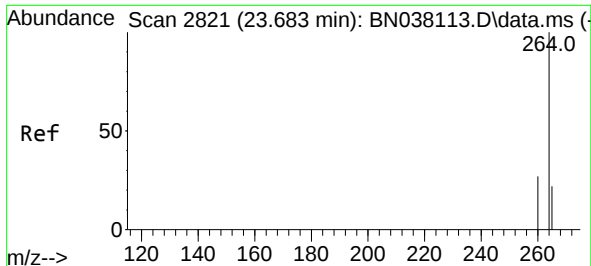
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 71675 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 30.1  | 24.3  | 36.5  |
| 229       | 19.6  | 15.7  | 23.5  |



#34  
 Bis(2-ethylhexyl)phthalate  
 Concen: 0.745 ng  
 RT: 21.295 min Scan# 2260  
 Delta R.T. -0.000 min  
 Lab File: BN038114.D  
 Acq: 28 Oct 2025 14:49

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 149   | Resp: | 32963 |
| Ion Ratio | Lower | Upper |       |
| 149       | 100   |       |       |
| 167       | 26.8  | 21.1  | 31.7  |
| 279       | 3.1   | 2.9   | 4.3   |

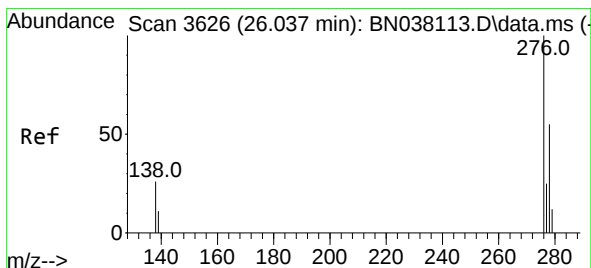
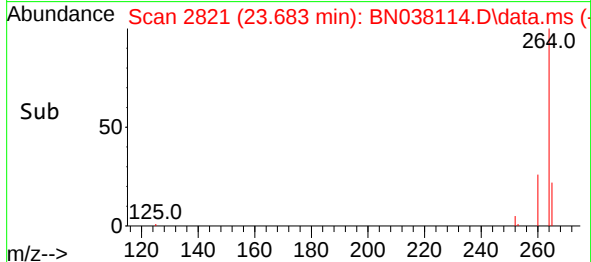
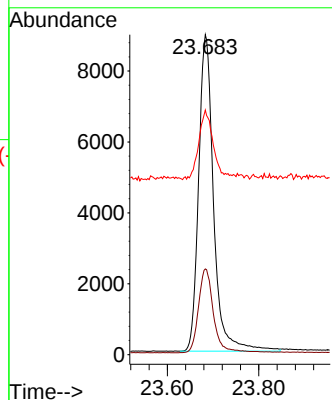
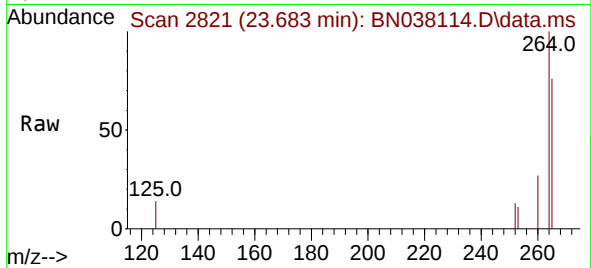




#35  
 Perylene-d12  
 Concen: 0.400 ng  
 RT: 23.683 min Scan# 21  
 Delta R.T. 0.003 min  
 Lab File: BN038114.D  
 Acq: 28 Oct 2025 14:49

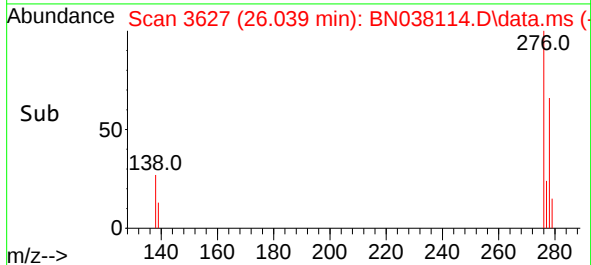
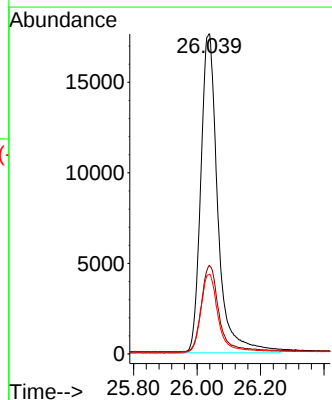
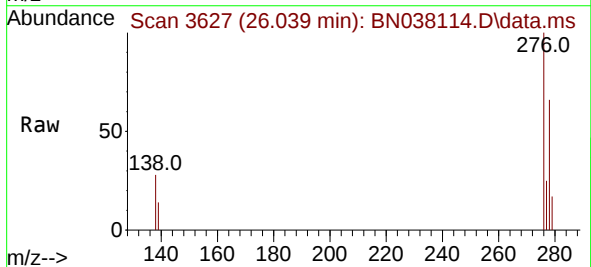
Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC0.8

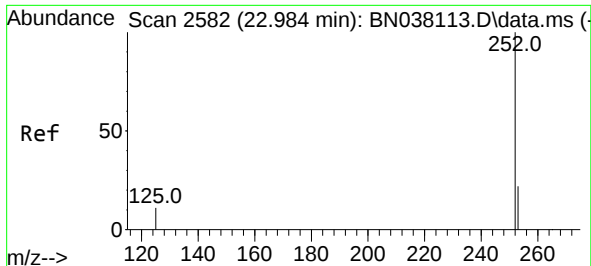
Tgt Ion:264 Resp: 20307  
 Ion Ratio Lower Upper  
 264 100  
 260 26.8 21.8 32.8  
 265 76.5 68.6 102.8



#36  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.789 ng  
 RT: 26.039 min Scan# 3627  
 Delta R.T. 0.006 min  
 Lab File: BN038114.D  
 Acq: 28 Oct 2025 14:49

Tgt Ion:276 Resp: 65796  
 Ion Ratio Lower Upper  
 276 100  
 138 27.3 21.4 32.0  
 277 24.7 19.2 28.8

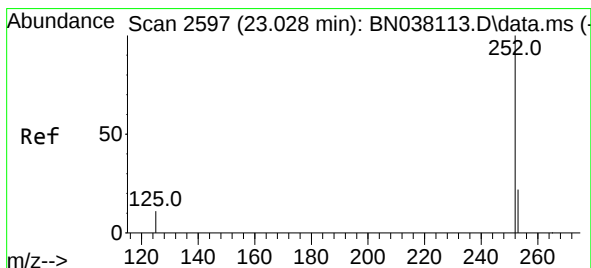
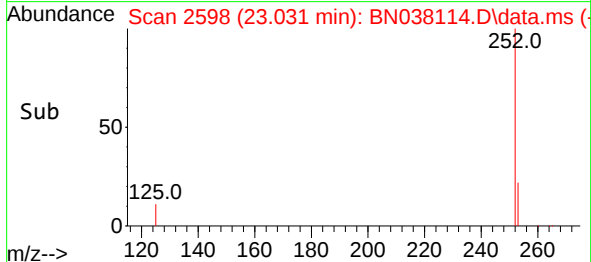
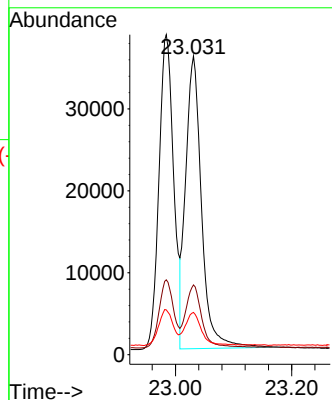
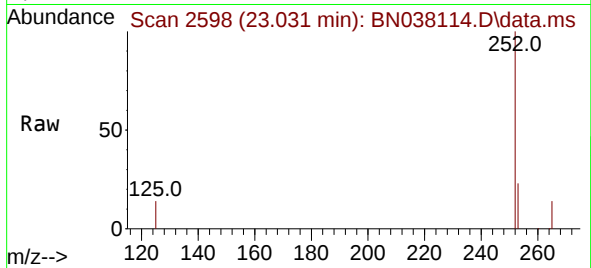




#37  
Benzo(b)fluoranthene  
Concen: 0.781 ng  
RT: 23.031 min Scan# 2598  
Delta R.T. 0.050 min  
Lab File: BN038114.D  
Acq: 28 Oct 2025 14:49

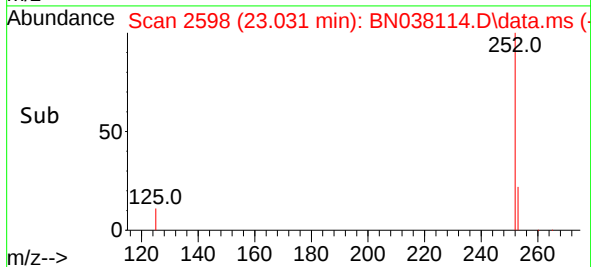
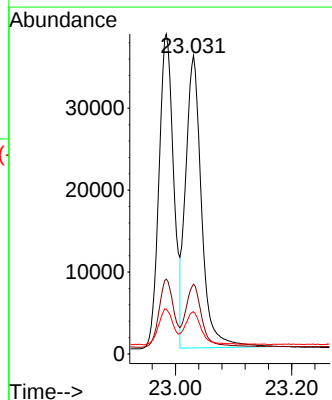
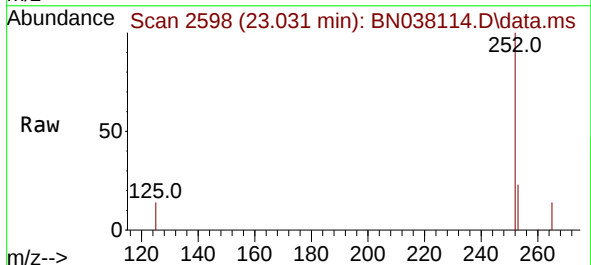
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

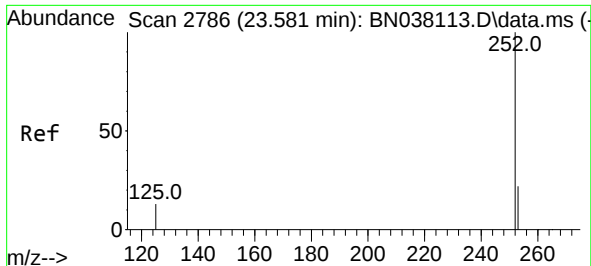
Tgt Ion:252 Resp: 67771  
Ion Ratio Lower Upper  
252 100  
253 23.4 20.9 31.3  
125 14.2 14.1 21.1



#38  
Benzo(k)fluoranthene  
Concen: 0.776 ng  
RT: 23.031 min Scan# 2598  
Delta R.T. 0.003 min  
Lab File: BN038114.D  
Acq: 28 Oct 2025 14:49

Tgt Ion:252 Resp: 67771  
Ion Ratio Lower Upper  
252 100  
253 23.4 21.2 31.8  
125 14.2 14.6 22.0#





#39

Benzo(a)pyrene

Concen: 0.768 ng

RT: 23.578 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN038114.D

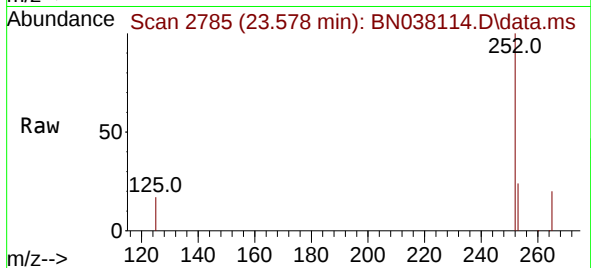
Acq: 28 Oct 2025 14:49

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8



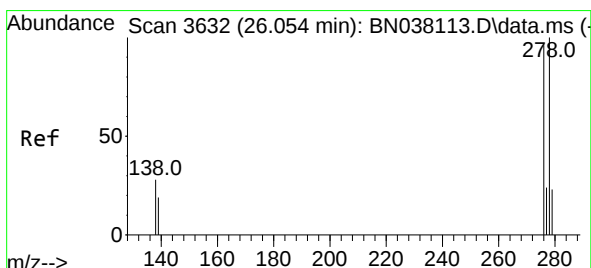
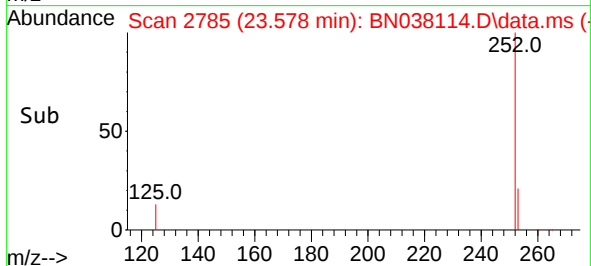
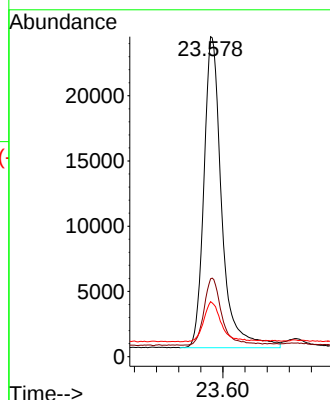
Tgt Ion:252 Resp: 53367

Ion Ratio Lower Upper

252 100

253 24.4 23.1 34.7

125 17.2 18.6 28.0#



#40

Dibenzo(a,h)anthracene

Concen: 0.784 ng

RT: 26.054 min Scan# 3632

Delta R.T. 0.006 min

Lab File: BN038114.D

Acq: 28 Oct 2025 14:49

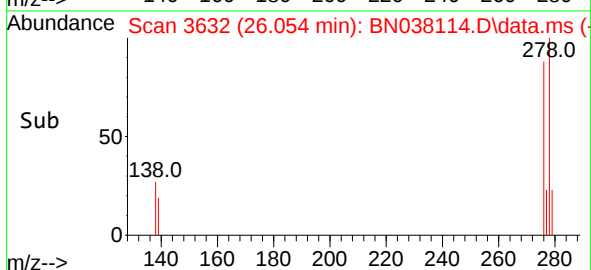
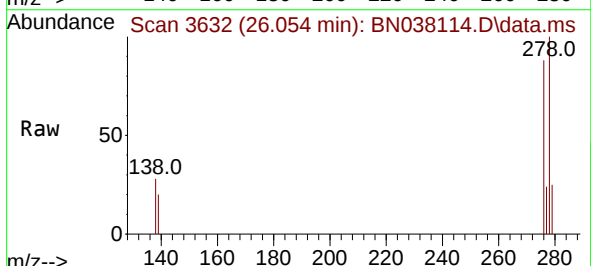
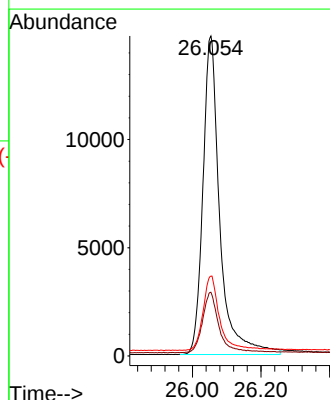
Tgt Ion:278 Resp: 50344

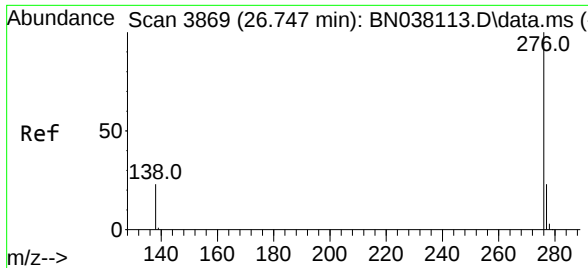
Ion Ratio Lower Upper

278 100

139 19.9 17.6 26.4

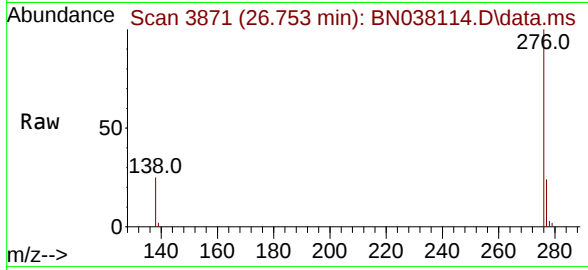
279 25.0 22.6 33.8





#41  
Benzo(g,h,i)perylene  
Concen: 0.793 ng  
RT: 26.753 min Scan# 3871  
Delta R.T. 0.003 min  
Lab File: BN038114.D  
Acq: 28 Oct 2025 14:49

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8



Tgt Ion:276 Resp: 58155  
Ion Ratio Lower Upper  
276 100  
277 24.0 19.7 29.5  
138 24.9 20.2 30.4

