

## Cover Page

**Order ID :** Q3178

**Project ID :** RFP 916

**Client :** Weston Solutions, Inc.

**Lab Sample Number**

Q3178-01  
Q3178-02  
Q3178-03

**Client Sample Number**

EME-TS14-01  
EME-TS14-01MS  
EME-TS14-01MSD

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: 9/29/2025

## 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

## APPENDIX A

### QA REVIEW GENERAL DOCUMENTATION

Project #: Q3178

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: 09/29/2025

## LAB CHRONICLE

|                 |                        |                   |                       |
|-----------------|------------------------|-------------------|-----------------------|
| <b>OrderID:</b> | Q3178                  | <b>OrderDate:</b> | 9/24/2025 10:59:00 AM |
| <b>Client:</b>  | Weston Solutions, Inc. | <b>Project:</b>   | RFP 916               |
| <b>Contact:</b> | Smita Sumbaly          | <b>Location:</b>  | J33,VOA Lab           |

| LabID    | ClientID    | Matrix | Test             | Method | Sample Date | Prep Date | Anal Date | Received |
|----------|-------------|--------|------------------|--------|-------------|-----------|-----------|----------|
| Q3178-01 | EME-TS14-01 | SOIL   | SVOC-TCL BNA -20 | 8270E  | 09/23/25    | 09/25/25  | 09/25/25  | 09/23/25 |





284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,  
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### Hit Summary Sheet SW-846

SDG No.: Q3178  
Client: Weston Solutions, Inc.

| Sample ID            | Client ID   | Matrix | Parameter                     | Concentration | C       | MDL | RDL | Units |
|----------------------|-------------|--------|-------------------------------|---------------|---------|-----|-----|-------|
| Client ID :          | EME-TS14-01 |        |                               |               |         |     |     |       |
| Q3178-01             | EME-TS14-01 | SOIL   | 13-Docosenamide, (Z)-         | *             | 120.000 | J 0 | 0   | ug/Kg |
| Q3178-01             | EME-TS14-01 | SOIL   | Cyclohexane, 1,3,5-triphenyl- | *             | 200.000 | J 0 | 0   | ug/Kg |
| Q3178-01             | EME-TS14-01 | SOIL   | n-Hexadecanoic acid           | *             | 280.000 | J 0 | 0   | ug/Kg |
| Total Tics :         |             |        |                               |               | 600.00  |     |     |       |
| Total Concentration: |             |        |                               |               | 600.00  |     |     |       |



# QC SUMMARY

## Surrogate Summary

SW-846

SDG No.: Q3178

Client: Weston Solutions, Inc.

Analytical Method: 8270E

| Lab Sample ID | Client ID      | Parameter            | Spike (PPM) | Result (PPM) | Recovery (%) | Qual | Limits (%) |      |
|---------------|----------------|----------------------|-------------|--------------|--------------|------|------------|------|
|               |                |                      |             |              |              |      | Low        | High |
| PB169827BL    | PB169827BL     | 2-Fluorophenol       | 300         | 242          | 81           |      | 18         | 112  |
|               |                | Phenol-d6            | 300         | 246          | 82           |      | 15         | 107  |
|               |                | Nitrobenzene-d5      | 200         | 185          | 92           |      | 18         | 107  |
|               |                | 2-Fluorobiphenyl     | 200         | 165          | 82           |      | 20         | 109  |
|               |                | 2,4,6-Tribromophenol | 300         | 205          | 68           |      | 10         | 116  |
|               |                | Terphenyl-d14        | 200         | 213          | 107          | *    | 10         | 105  |
| PB169827BS    | PB169827BS     | 2-Fluorophenol       | 150         | 111          | 74           |      | 18         | 112  |
|               |                | Phenol-d6            | 150         | 113          | 76           |      | 15         | 107  |
|               |                | Nitrobenzene-d5      | 100         | 84.3         | 84           |      | 18         | 107  |
|               |                | 2-Fluorobiphenyl     | 100         | 80.8         | 81           |      | 20         | 109  |
|               |                | 2,4,6-Tribromophenol | 150         | 110          | 73           |      | 10         | 116  |
|               |                | Terphenyl-d14        | 100         | 92.4         | 92           |      | 10         | 105  |
| Q3178-01      | EME-TS14-01    | 2-Fluorophenol       | 150         | 40.5         | 27           |      | 18         | 112  |
|               |                | Phenol-d6            | 150         | 40.1         | 27           |      | 15         | 107  |
|               |                | Nitrobenzene-d5      | 100         | 30.7         | 31           |      | 18         | 107  |
|               |                | 2-Fluorobiphenyl     | 100         | 24.3         | 24           |      | 20         | 109  |
|               |                | 2,4,6-Tribromophenol | 150         | 43.2         | 29           |      | 10         | 116  |
|               |                | Terphenyl-d14        | 100         | 22.2         | 22           |      | 10         | 105  |
| Q3178-02MS    | EME-TS14-01MS  | 2-Fluorophenol       | 150         | 83.4         | 56           |      | 18         | 112  |
|               |                | Phenol-d6            | 150         | 85.1         | 57           |      | 15         | 107  |
|               |                | Nitrobenzene-d5      | 100         | 62.6         | 63           |      | 18         | 107  |
|               |                | 2-Fluorobiphenyl     | 100         | 49.8         | 50           |      | 20         | 109  |
|               |                | 2,4,6-Tribromophenol | 150         | 83.2         | 55           |      | 10         | 116  |
|               |                | Terphenyl-d14        | 100         | 48.3         | 48           |      | 10         | 105  |
| Q3178-03MSD   | EME-TS14-01MSD | 2-Fluorophenol       | 150         | 88.1         | 59           |      | 18         | 112  |
|               |                | Phenol-d6            | 150         | 92.7         | 62           |      | 15         | 107  |
|               |                | Nitrobenzene-d5      | 100         | 65.6         | 66           |      | 18         | 107  |
|               |                | 2-Fluorobiphenyl     | 100         | 51.9         | 52           |      | 20         | 109  |
|               |                | 2,4,6-Tribromophenol | 150         | 80.5         | 54           |      | 10         | 116  |
|               |                | Terphenyl-d14        | 100         | 53.1         | 53           |      | 10         | 105  |

**Matrix Spike/Matrix Spike Duplicate Summary**

**SW-846**

**SDG No.:** Q3178

**Analytical Method:** SW8270E

**Client:** Weston Solutions, Inc.

**DataFile:** BF143817.D

| Parameter                   | Spike             | Sample Result            | Result               | Units | Rec | Rec Qual | RPD | RPD Qual | Low | Limits High | RPD |
|-----------------------------|-------------------|--------------------------|----------------------|-------|-----|----------|-----|----------|-----|-------------|-----|
| <b>Lab Sample ID:</b>       | <b>Q3178-02MS</b> | <b>Client Sample ID:</b> | <b>EME-TS14-01MS</b> |       |     |          |     |          |     |             |     |
| Benzaldehyde                | 2300              | 0                        | 1400                 | ug/Kg | 61  |          |     |          | 10  | 171         |     |
| Phenol                      | 2300              | 0                        | 2200                 | ug/Kg | 96  |          |     |          | 51  | 122         |     |
| bis(2-Chloroethyl)ether     | 2300              | 0                        | 2100                 | ug/Kg | 91  |          |     |          | 54  | 125         |     |
| 2-Chlorophenol              | 2300              | 0                        | 2100                 | ug/Kg | 91  |          |     |          | 51  | 121         |     |
| 2-Methylphenol              | 2300              | 0                        | 2200                 | ug/Kg | 96  |          |     |          | 47  | 125         |     |
| 2,2-oxybis(1-Chloropropane) | 2300              | 0                        | 2000                 | ug/Kg | 87  |          |     |          | 46  | 119         |     |
| Acetophenone                | 2300              | 0                        | 2500                 | ug/Kg | 109 |          |     |          | 55  | 128         |     |
| 3+4-Methylphenols           | 2300              | 0                        | 2100                 | ug/Kg | 91  |          |     |          | 49  | 125         |     |
| N-Nitroso-di-n-propylamine  | 2300              | 0                        | 2100                 | ug/Kg | 91  |          |     |          | 59  | 119         |     |
| Hexachloroethane            | 2300              | 0                        | 2000                 | ug/Kg | 87  |          |     |          | 51  | 116         |     |
| Nitrobenzene                | 2300              | 0                        | 2300                 | ug/Kg | 100 |          |     |          | 47  | 124         |     |
| Isophorone                  | 2300              | 0                        | 2300                 | ug/Kg | 100 |          |     |          | 49  | 127         |     |
| 2-Nitrophenol               | 2300              | 0                        | 2500                 | ug/Kg | 109 |          |     |          | 43  | 131         |     |
| 2,4-Dimethylphenol          | 2300              | 0                        | 2400                 | ug/Kg | 104 |          |     |          | 63  | 151         |     |
| bis(2-Chloroethoxy)methane  | 2300              | 0                        | 2200                 | ug/Kg | 96  |          |     |          | 51  | 119         |     |
| 2,4-Dichlorophenol          | 2300              | 0                        | 2200                 | ug/Kg | 96  |          |     |          | 50  | 122         |     |
| Naphthalene                 | 2300              | 0                        | 2100                 | ug/Kg | 91  |          |     |          | 51  | 121         |     |
| 4-Chloroaniline             | 2300              | 0                        | 860                  | ug/Kg | 37  |          |     |          | 10  | 100         |     |
| Hexachlorobutadiene         | 2300              | 0                        | 2100                 | ug/Kg | 91  |          |     |          | 44  | 126         |     |
| Caprolactam                 | 2300              | 0                        | 2500                 | ug/Kg | 109 |          |     |          | 51  | 134         |     |
| 4-Chloro-3-methylphenol     | 2300              | 0                        | 2200                 | ug/Kg | 96  |          |     |          | 57  | 132         |     |
| 2-Methylnaphthalene         | 2300              | 0                        | 1900                 | ug/Kg | 83  |          |     |          | 59  | 123         |     |
| Hexachlorocyclopentadiene   | 4700              | 0                        | 4000                 | ug/Kg | 85  |          |     |          | 10  | 175         |     |
| 2,4,6-Trichlorophenol       | 2300              | 0                        | 2400                 | ug/Kg | 104 |          |     |          | 33  | 141         |     |
| 2,4,5-Trichlorophenol       | 2300              | 0                        | 2200                 | ug/Kg | 96  |          |     |          | 38  | 135         |     |
| 1,1-Biphenyl                | 2300              | 0                        | 2400                 | ug/Kg | 104 |          |     |          | 55  | 131         |     |
| 2-Chloronaphthalene         | 2300              | 0                        | 2200                 | ug/Kg | 96  |          |     |          | 48  | 124         |     |
| 2-Nitroaniline              | 2300              | 0                        | 2700                 | ug/Kg | 117 |          |     |          | 47  | 134         |     |
| Dimethylphthalate           | 2300              | 0                        | 2300                 | ug/Kg | 100 |          |     |          | 54  | 120         |     |
| Acenaphthylene              | 2300              | 0                        | 2500                 | ug/Kg | 109 |          |     |          | 57  | 125         |     |
| 2,6-Dinitrotoluene          | 2300              | 0                        | 2900                 | ug/Kg | 126 |          |     |          | 48  | 127         |     |
| 3-Nitroaniline              | 2300              | 0                        | 1800                 | ug/Kg | 78  |          |     |          | 10  | 112         |     |
| Acenaphthene                | 2300              | 0                        | 2200                 | ug/Kg | 96  |          |     |          | 70  | 121         |     |
| 2,4-Dinitrophenol           | 4700              | 0                        | 3000                 | ug/Kg | 64  |          |     |          | 10  | 155         |     |
| 4-Nitrophenol               | 4700              | 0                        | 5300                 | ug/Kg | 113 |          |     |          | 10  | 175         |     |
| Dibenzofuran                | 2300              | 0                        | 2200                 | ug/Kg | 96  |          |     |          | 52  | 114         |     |
| 2,4-Dinitrotoluene          | 2300              | 0                        | 2600                 | ug/Kg | 113 |          |     |          | 41  | 140         |     |
| Diethylphthalate            | 2300              | 0                        | 2300                 | ug/Kg | 100 |          |     |          | 51  | 119         |     |
| 4-Chlorophenyl-phenylether  | 2300              | 0                        | 2200                 | ug/Kg | 96  |          |     |          | 48  | 122         |     |
| Fluorene                    | 2300              | 0                        | 2200                 | ug/Kg | 96  |          |     |          | 53  | 118         |     |
| 4-Nitroaniline              | 2300              | 0                        | 2500                 | ug/Kg | 109 |          |     |          | 29  | 140         |     |
| 4,6-Dinitro-2-methylphenol  | 2300              | 0                        | 1700                 | ug/Kg | 74  |          |     |          | 10  | 160         |     |
| N-Nitrosodiphenylamine      | 2300              | 0                        | 2100                 | ug/Kg | 91  |          |     |          | 73  | 118         |     |
| 4-Bromophenyl-phenylether   | 2300              | 0                        | 2100                 | ug/Kg | 91  |          |     |          | 65  | 121         |     |
| Hexachlorobenzene           | 2300              | 0                        | 2100                 | ug/Kg | 91  |          |     |          | 67  | 118         |     |
| Atrazine                    | 2300              | 0                        | 2300                 | ug/Kg | 100 |          |     |          | 45  | 175         |     |

**Matrix Spike/Matrix Spike Duplicate Summary**

**SW-846**

**SDG No.:** Q3178

**Analytical Method:** SW8270E

**Client:** Weston Solutions, Inc.

**DataFile:** BF143817.D

| Parameter                  | Spike | Sample<br>Result | Result | Units | Rec | Rec<br>Qual | RPD | RPD<br>Qual | Low | Limits<br>High | RPD |
|----------------------------|-------|------------------|--------|-------|-----|-------------|-----|-------------|-----|----------------|-----|
| Pentachlorophenol          | 4700  | 0                | 5200   | ug/Kg | 111 |             |     |             | 13  | 153            |     |
| Phenanthrene               | 2300  | 0                | 2200   | ug/Kg | 96  |             |     |             | 52  | 128            |     |
| Anthracene                 | 2300  | 0                | 2300   | ug/Kg | 100 |             |     |             | 62  | 124            |     |
| Carbazole                  | 2300  | 0                | 2400   | ug/Kg | 104 |             |     |             | 59  | 119            |     |
| Di-n-butylphthalate        | 2300  | 0                | 2300   | ug/Kg | 100 |             |     |             | 55  | 125            |     |
| Fluoranthene               | 2300  | 0                | 2700   | ug/Kg | 117 |             |     |             | 44  | 125            |     |
| Pyrene                     | 2300  | 0                | 2100   | ug/Kg | 91  |             |     |             | 37  | 122            |     |
| Butylbenzylphthalate       | 2300  | 0                | 2500   | ug/Kg | 109 |             |     |             | 44  | 135            |     |
| 3,3-Dichlorobenzidine      | 2300  | 0                | 1800   | ug/Kg | 78  |             |     |             | 15  | 112            |     |
| Benzo(a)anthracene         | 2300  | 0                | 2300   | ug/Kg | 100 |             |     |             | 53  | 119            |     |
| Chrysene                   | 2300  | 0                | 2300   | ug/Kg | 100 |             |     |             | 57  | 121            |     |
| bis(2-Ethylhexyl)phthalate | 2300  | 0                | 2200   | ug/Kg | 96  |             |     |             | 42  | 169            |     |
| Di-n-octyl phthalate       | 2300  | 0                | 2200   | ug/Kg | 96  |             |     |             | 51  | 156            |     |
| Benzo(b)fluoranthene       | 2300  | 0                | 3000   | ug/Kg | 130 | *           |     |             | 52  | 117            |     |
| Benzo(k)fluoranthene       | 2300  | 0                | 2300   | ug/Kg | 100 |             |     |             | 57  | 134            |     |
| Benzo(a)pyrene             | 2300  | 0                | 2500   | ug/Kg | 109 |             |     |             | 70  | 142            |     |
| Indeno(1,2,3-cd)pyrene     | 2300  | 0                | 1600   | ug/Kg | 70  |             |     |             | 40  | 129            |     |
| Dibenz(a,h)anthracene      | 2300  | 0                | 1600   | ug/Kg | 70  |             |     |             | 43  | 123            |     |
| Benzo(g,h,i)perylene       | 2300  | 0                | 1600   | ug/Kg | 70  |             |     |             | 24  | 125            |     |
| 1,2,4,5-Tetrachlorobenzene | 2300  | 0                | 2400   | ug/Kg | 104 |             |     |             | 52  | 134            |     |
| 1,4-Dioxane                | 2300  | 0                | 2100   | ug/Kg | 91  |             |     |             | 46  | 112            |     |
| 2,3,4,6-Tetrachlorophenol  | 2300  | 0                | 2700   | ug/Kg | 117 |             |     |             | 24  | 146            |     |

**Matrix Spike/Matrix Spike Duplicate Summary**

**SW-846**

**SDG No.:** Q3178

**Analytical Method:** SW8270E

**Client:** Weston Solutions, Inc.

**DataFile:** BF143818.D

| Parameter                   | Spike              | Sample Result            | Result                | Units | Rec | Rec Qual | RPD | RPD Qual | Low | Limits High | RPD |
|-----------------------------|--------------------|--------------------------|-----------------------|-------|-----|----------|-----|----------|-----|-------------|-----|
| <b>Lab Sample ID:</b>       | <b>Q3178-03MSD</b> | <b>Client Sample ID:</b> | <b>EME-TS14-01MSD</b> |       |     |          |     |          |     |             |     |
| Benzaldehyde                | 2300               | 0                        | 1500                  | ug/Kg | 65  |          | 6   |          | 10  | 171         | 20  |
| Phenol                      | 2300               | 0                        | 2400                  | ug/Kg | 104 |          | 8   |          | 51  | 122         | 20  |
| bis(2-Chloroethyl)ether     | 2300               | 0                        | 2200                  | ug/Kg | 96  |          | 5   |          | 54  | 125         | 20  |
| 2-Chlorophenol              | 2300               | 0                        | 2300                  | ug/Kg | 100 |          | 9   |          | 51  | 121         | 20  |
| 2-Methylphenol              | 2300               | 0                        | 2300                  | ug/Kg | 100 |          | 4   |          | 47  | 125         | 20  |
| 2,2-oxybis(1-Chloropropane) | 2300               | 0                        | 2100                  | ug/Kg | 91  |          | 4   |          | 46  | 119         | 20  |
| Acetophenone                | 2300               | 0                        | 2600                  | ug/Kg | 113 |          | 4   |          | 55  | 128         | 20  |
| 3+4-Methylphenols           | 2300               | 0                        | 2300                  | ug/Kg | 100 |          | 9   |          | 49  | 125         | 20  |
| N-Nitroso-di-n-propylamine  | 2300               | 0                        | 2300                  | ug/Kg | 100 |          | 9   |          | 59  | 119         | 20  |
| Hexachloroethane            | 2300               | 0                        | 2100                  | ug/Kg | 91  |          | 4   |          | 51  | 116         | 20  |
| Nitrobenzene                | 2300               | 0                        | 2400                  | ug/Kg | 104 |          | 4   |          | 47  | 124         | 20  |
| Isophorone                  | 2300               | 0                        | 2400                  | ug/Kg | 104 |          | 4   |          | 49  | 127         | 20  |
| 2-Nitrophenol               | 2300               | 0                        | 2600                  | ug/Kg | 113 |          | 4   |          | 43  | 131         | 20  |
| 2,4-Dimethylphenol          | 2300               | 0                        | 2600                  | ug/Kg | 113 |          | 8   |          | 63  | 151         | 20  |
| bis(2-Chloroethoxy)methane  | 2300               | 0                        | 2300                  | ug/Kg | 100 |          | 4   |          | 51  | 119         | 20  |
| 2,4-Dichlorophenol          | 2300               | 0                        | 2300                  | ug/Kg | 100 |          | 4   |          | 50  | 122         | 20  |
| Naphthalene                 | 2300               | 0                        | 2200                  | ug/Kg | 96  |          | 5   |          | 51  | 121         | 20  |
| 4-Chloroaniline             | 2300               | 0                        | 880                   | ug/Kg | 38  |          | 3   |          | 10  | 100         | 20  |
| Hexachlorobutadiene         | 2300               | 0                        | 2200                  | ug/Kg | 96  |          | 5   |          | 44  | 126         | 20  |
| Caprolactam                 | 2300               | 0                        | 2900                  | ug/Kg | 126 |          | 14  |          | 51  | 134         | 20  |
| 4-Chloro-3-methylphenol     | 2300               | 0                        | 2400                  | ug/Kg | 104 |          | 8   |          | 57  | 132         | 20  |
| 2-Methylnaphthalene         | 2300               | 0                        | 2100                  | ug/Kg | 91  |          | 9   |          | 59  | 123         | 20  |
| Hexachlorocyclopentadiene   | 4700               | 0                        | 4000                  | ug/Kg | 85  |          | 0   |          | 10  | 175         | 20  |
| 2,4,6-Trichlorophenol       | 2300               | 0                        | 2500                  | ug/Kg | 109 |          | 5   |          | 33  | 141         | 20  |
| 2,4,5-Trichlorophenol       | 2300               | 0                        | 2400                  | ug/Kg | 104 |          | 8   |          | 38  | 135         | 20  |
| 1,1-Biphenyl                | 2300               | 0                        | 2500                  | ug/Kg | 109 |          | 5   |          | 55  | 131         | 20  |
| 2-Chloronaphthalene         | 2300               | 0                        | 2200                  | ug/Kg | 96  |          | 0   |          | 48  | 124         | 20  |
| 2-Nitroaniline              | 2300               | 0                        | 2900                  | ug/Kg | 126 |          | 7   |          | 47  | 134         | 20  |
| Dimethylphthalate           | 2300               | 0                        | 2500                  | ug/Kg | 109 |          | 9   |          | 54  | 120         | 20  |
| Acenaphthylene              | 2300               | 0                        | 2600                  | ug/Kg | 113 |          | 4   |          | 57  | 125         | 20  |
| 2,6-Dinitrotoluene          | 2300               | 0                        | 3200                  | ug/Kg | 139 | *        | 10  |          | 48  | 127         | 20  |
| 3-Nitroaniline              | 2300               | 0                        | 1800                  | ug/Kg | 78  |          | 0   |          | 10  | 112         | 20  |
| Acenaphthene                | 2300               | 0                        | 2300                  | ug/Kg | 100 |          | 4   |          | 70  | 121         | 20  |
| 2,4-Dinitrophenol           | 4700               | 0                        | 3100                  | ug/Kg | 66  |          | 3   |          | 10  | 155         | 20  |
| 4-Nitrophenol               | 4700               | 0                        | 5400                  | ug/Kg | 115 |          | 2   |          | 10  | 175         | 20  |
| Dibenzofuran                | 2300               | 0                        | 2300                  | ug/Kg | 100 |          | 4   |          | 52  | 114         | 20  |
| 2,4-Dinitrotoluene          | 2300               | 0                        | 2700                  | ug/Kg | 117 |          | 3   |          | 41  | 140         | 20  |
| Diethylphthalate            | 2300               | 0                        | 2400                  | ug/Kg | 104 |          | 4   |          | 51  | 119         | 20  |
| 4-Chlorophenyl-phenylether  | 2300               | 0                        | 2300                  | ug/Kg | 100 |          | 4   |          | 48  | 122         | 20  |
| Fluorene                    | 2300               | 0                        | 2300                  | ug/Kg | 100 |          | 4   |          | 53  | 118         | 20  |
| 4-Nitroaniline              | 2300               | 0                        | 2500                  | ug/Kg | 109 |          | 0   |          | 29  | 140         | 20  |
| 4,6-Dinitro-2-methylphenol  | 2300               | 0                        | 1900                  | ug/Kg | 83  |          | 11  |          | 10  | 160         | 20  |
| N-Nitrosodiphenylamine      | 2300               | 0                        | 2300                  | ug/Kg | 100 |          | 9   |          | 73  | 118         | 20  |
| 4-Bromophenyl-phenylether   | 2300               | 0                        | 2300                  | ug/Kg | 100 |          | 9   |          | 65  | 121         | 20  |
| Hexachlorobenzene           | 2300               | 0                        | 2300                  | ug/Kg | 100 |          | 9   |          | 67  | 118         | 20  |
| Atrazine                    | 2300               | 0                        | 2500                  | ug/Kg | 109 |          | 9   |          | 45  | 175         | 20  |

**Matrix Spike/Matrix Spike Duplicate Summary**

**SW-846**

**SDG No.:** Q3178

**Analytical Method:** SW8270E

**Client:** Weston Solutions, Inc.

**DataFile:** BF143818.D

| Parameter                  | Spike | Sample<br>Result | Result | Units | Rec | Rec<br>Qual | RPD | RPD<br>Qual | Low | Limits<br>High | RPD |
|----------------------------|-------|------------------|--------|-------|-----|-------------|-----|-------------|-----|----------------|-----|
| Pentachlorophenol          | 4700  | 0                | 5400   | ug/Kg | 115 |             | 4   |             | 13  | 153            | 20  |
| Phenanthrene               | 2300  | 0                | 2300   | ug/Kg | 100 |             | 4   |             | 52  | 128            | 20  |
| Anthracene                 | 2300  | 0                | 2300   | ug/Kg | 100 |             | 0   |             | 62  | 124            | 20  |
| Carbazole                  | 2300  | 0                | 2400   | ug/Kg | 104 |             | 0   |             | 59  | 119            | 20  |
| Di-n-butylphthalate        | 2300  | 0                | 2500   | ug/Kg | 109 |             | 9   |             | 55  | 125            | 20  |
| Fluoranthene               | 2300  | 0                | 2600   | ug/Kg | 113 |             | 3   |             | 44  | 125            | 20  |
| Pyrene                     | 2300  | 0                | 2300   | ug/Kg | 100 |             | 9   |             | 37  | 122            | 20  |
| Butylbenzylphthalate       | 2300  | 0                | 2700   | ug/Kg | 117 |             | 7   |             | 44  | 135            | 20  |
| 3,3-Dichlorobenzidine      | 2300  | 0                | 1900   | ug/Kg | 83  |             | 6   |             | 15  | 112            | 20  |
| Benzo(a)anthracene         | 2300  | 0                | 2400   | ug/Kg | 104 |             | 4   |             | 53  | 119            | 20  |
| Chrysene                   | 2300  | 0                | 2300   | ug/Kg | 100 |             | 0   |             | 57  | 121            | 20  |
| bis(2-Ethylhexyl)phthalate | 2300  | 0                | 2300   | ug/Kg | 100 |             | 4   |             | 42  | 169            | 20  |
| Di-n-octyl phthalate       | 2300  | 0                | 2300   | ug/Kg | 100 |             | 4   |             | 51  | 156            | 20  |
| Benzo(b)fluoranthene       | 2300  | 0                | 3200   | ug/Kg | 139 | *           | 7   |             | 52  | 117            | 20  |
| Benzo(k)fluoranthene       | 2300  | 0                | 2400   | ug/Kg | 104 |             | 4   |             | 57  | 134            | 20  |
| Benzo(a)pyrene             | 2300  | 0                | 2600   | ug/Kg | 113 |             | 4   |             | 70  | 142            | 20  |
| Indeno(1,2,3-cd)pyrene     | 2300  | 0                | 1700   | ug/Kg | 74  |             | 6   |             | 40  | 129            | 20  |
| Dibenz(a,h)anthracene      | 2300  | 0                | 1700   | ug/Kg | 74  |             | 6   |             | 43  | 123            | 20  |
| Benzo(g,h,i)perylene       | 2300  | 0                | 1700   | ug/Kg | 74  |             | 6   |             | 24  | 125            | 20  |
| 1,2,4,5-Tetrachlorobenzene | 2300  | 0                | 2500   | ug/Kg | 109 |             | 5   |             | 52  | 134            | 20  |
| 1,4-Dioxane                | 2300  | 0                | 2100   | ug/Kg | 91  |             | 0   |             | 46  | 112            | 20  |
| 2,3,4,6-Tetrachlorophenol  | 2300  | 0                | 2800   | ug/Kg | 122 |             | 4   |             | 24  | 146            | 20  |

## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q3178

Analytical Method:

8270E

Client: Weston Solutions, Inc.

DataFile:

BF143804.D

| Lab Sample ID | Parameter                   | Spike | Result | Unit  | Rec | RPD | Qual | RPD  | Limits |      | RPD |
|---------------|-----------------------------|-------|--------|-------|-----|-----|------|------|--------|------|-----|
|               |                             |       |        |       |     |     |      | Qual | Low    | High |     |
| PB169827BS    | Benzaldehyde                | 1700  | 400    | ug/Kg | 24  |     |      |      | 10     | 133  |     |
|               | Phenol                      | 1700  | 1400   | ug/Kg | 82  |     |      |      | 62     | 112  |     |
|               | bis(2-Chloroethyl)ether     | 1700  | 1400   | ug/Kg | 82  |     |      |      | 60     | 101  |     |
|               | 2-Chlorophenol              | 1700  | 1400   | ug/Kg | 82  |     |      |      | 65     | 112  |     |
|               | 2-Methylphenol              | 1700  | 1500   | ug/Kg | 88  |     |      |      | 61     | 108  |     |
|               | 2,2-oxybis(1-Chloropropane) | 1700  | 1400   | ug/Kg | 82  |     |      |      | 51     | 100  |     |
|               | Acetophenone                | 1700  | 1400   | ug/Kg | 82  |     |      |      | 66     | 98   |     |
|               | 3+4-Methylphenols           | 1700  | 1400   | ug/Kg | 82  |     |      |      | 58     | 111  |     |
|               | N-Nitroso-di-n-propylamine  | 1700  | 1500   | ug/Kg | 88  |     |      |      | 63     | 95   |     |
|               | Hexachloroethane            | 1700  | 1400   | ug/Kg | 82  |     |      |      | 72     | 108  |     |
|               | Nitrobenzene                | 1700  | 1400   | ug/Kg | 82  |     |      |      | 57     | 101  |     |
|               | Isophorone                  | 1700  | 1500   | ug/Kg | 88  |     |      |      | 59     | 99   |     |
|               | 2-Nitrophenol               | 1700  | 1500   | ug/Kg | 88  |     |      |      | 61     | 111  |     |
|               | 2,4-Dimethylphenol          | 1700  | 1600   | ug/Kg | 94  |     |      |      | 46     | 141  |     |
|               | bis(2-Chloroethoxy)methane  | 1700  | 1400   | ug/Kg | 82  |     |      |      | 66     | 97   |     |
|               | 2,4-Dichlorophenol          | 1700  | 1400   | ug/Kg | 82  |     |      |      | 62     | 107  |     |
|               | Naphthalene                 | 1700  | 1400   | ug/Kg | 82  |     |      |      | 62     | 100  |     |
|               | 4-Chloroaniline             | 1700  | 910    | ug/Kg | 54  |     |      |      | 16     | 100  |     |
|               | Hexachlorobutadiene         | 1700  | 1400   | ug/Kg | 82  |     |      |      | 53     | 98   |     |
|               | Caprolactam                 | 1700  | 1700   | ug/Kg | 100 |     |      |      | 67     | 110  |     |
|               | 4-Chloro-3-methylphenol     | 1700  | 1500   | ug/Kg | 88  |     |      |      | 58     | 112  |     |
|               | 2-Methylnaphthalene         | 1700  | 1300   | ug/Kg | 76  |     |      |      | 60     | 104  |     |
|               | Hexachlorocyclopentadiene   | 3300  | 3500   | ug/Kg | 106 |     |      |      | 45     | 165  |     |
|               | 2,4,6-Trichlorophenol       | 1700  | 1500   | ug/Kg | 88  |     |      |      | 59     | 102  |     |
|               | 2,4,5-Trichlorophenol       | 1700  | 1500   | ug/Kg | 88  |     |      |      | 61     | 98   |     |
|               | 1,1-Biphenyl                | 1700  | 1400   | ug/Kg | 82  |     |      |      | 57     | 103  |     |
|               | 2-Chloronaphthalene         | 1700  | 1400   | ug/Kg | 82  |     |      |      | 58     | 99   |     |
|               | 2-Nitroaniline              | 1700  | 1700   | ug/Kg | 100 |     |      |      | 66     | 101  |     |
|               | Dimethylphthalate           | 1700  | 1500   | ug/Kg | 88  |     |      |      | 61     | 99   |     |
|               | Acenaphthylene              | 1700  | 1600   | ug/Kg | 94  |     |      |      | 63     | 101  |     |
|               | 2,6-Dinitrotoluene          | 1700  | 1900   | ug/Kg | 112 |     | *    |      | 61     | 104  |     |
|               | 3-Nitroaniline              | 1700  | 1200   | ug/Kg | 71  |     |      |      | 28     | 100  |     |
|               | Acenaphthene                | 1700  | 1500   | ug/Kg | 88  |     |      |      | 57     | 104  |     |
|               | 2,4-Dinitrophenol           | 3300  | 3000   | ug/Kg | 91  |     |      |      | 37     | 128  |     |
|               | 4-Nitrophenol               | 3300  | 3100   | ug/Kg | 94  |     |      |      | 48     | 119  |     |
|               | Dibenzofuran                | 1700  | 1400   | ug/Kg | 82  |     |      |      | 63     | 99   |     |
|               | 2,4-Dinitrotoluene          | 1700  | 1600   | ug/Kg | 94  |     |      |      | 60     | 106  |     |
|               | Diethylphthalate            | 1700  | 1500   | ug/Kg | 88  |     |      |      | 60     | 101  |     |
|               | 4-Chlorophenyl-phenylether  | 1700  | 1400   | ug/Kg | 82  |     |      |      | 58     | 98   |     |
|               | Fluorene                    | 1700  | 1400   | ug/Kg | 82  |     |      |      | 61     | 101  |     |
|               | 4-Nitroaniline              | 1700  | 1600   | ug/Kg | 94  |     |      |      | 64     | 103  |     |
|               | 4,6-Dinitro-2-methylphenol  | 1700  | 1700   | ug/Kg | 100 |     |      |      | 76     | 113  |     |
|               | N-Nitrosodiphenylamine      | 1700  | 1500   | ug/Kg | 88  |     |      |      | 71     | 99   |     |
|               | 4-Bromophenyl-phenylether   | 1700  | 1600   | ug/Kg | 94  |     |      |      | 66     | 102  |     |



## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q3178

Analytical Method: 8270E

Client: Weston Solutions, Inc.

DataFile: BF143804.D

| Lab Sample ID | Parameter                  | Spike | Result | Unit  | Rec | RPD | Qual | RPD  |     | Limits |     |
|---------------|----------------------------|-------|--------|-------|-----|-----|------|------|-----|--------|-----|
|               |                            |       |        |       |     |     |      | Qual | Low | High   | RPD |
| PB169827BS    | Hexachlorobenzene          | 1700  | 1500   | ug/Kg | 88  |     |      |      | 64  | 98     |     |
|               | Atrazine                   | 1700  | 1600   | ug/Kg | 94  |     |      |      | 47  | 152    |     |
|               | Pentachlorophenol          | 3300  | 3200   | ug/Kg | 97  |     |      |      | 67  | 105    |     |
|               | Phenanthrene               | 1700  | 1400   | ug/Kg | 82  |     |      |      | 59  | 103    |     |
|               | Anthracene                 | 1700  | 1500   | ug/Kg | 88  |     |      |      | 61  | 105    |     |
|               | Carbazole                  | 1700  | 1500   | ug/Kg | 88  |     |      |      | 61  | 99     |     |
|               | Di-n-butylphthalate        | 1700  | 1600   | ug/Kg | 94  |     |      |      | 58  | 104    |     |
|               | Fluoranthene               | 1700  | 1400   | ug/Kg | 82  |     |      |      | 57  | 107    |     |
|               | Pyrene                     | 1700  | 1600   | ug/Kg | 94  |     |      |      | 59  | 103    |     |
|               | Butylbenzylphthalate       | 1700  | 1800   | ug/Kg | 106 |     | *    |      | 55  | 103    |     |
|               | 3,3-Dichlorobenzidine      | 1700  | 1200   | ug/Kg | 71  |     |      |      | 42  | 91     |     |
|               | Benzo(a)anthracene         | 1700  | 1400   | ug/Kg | 82  |     |      |      | 60  | 102    |     |
|               | Chrysene                   | 1700  | 1500   | ug/Kg | 88  |     |      |      | 59  | 101    |     |
|               | bis(2-Ethylhexyl)phthalate | 1700  | 1600   | ug/Kg | 94  |     |      |      | 54  | 135    |     |
|               | Di-n-octyl phthalate       | 1700  | 1600   | ug/Kg | 94  |     |      |      | 52  | 137    |     |
|               | Benzo(b)fluoranthene       | 1700  | 1700   | ug/Kg | 100 |     |      |      | 62  | 109    |     |
|               | Benzo(k)fluoranthene       | 1700  | 1600   | ug/Kg | 94  |     |      |      | 62  | 109    |     |
|               | Benzo(a)pyrene             | 1700  | 1700   | ug/Kg | 100 |     |      |      | 63  | 103    |     |
|               | Indeno(1,2,3-cd)pyrene     | 1700  | 1600   | ug/Kg | 94  |     |      |      | 63  | 101    |     |
|               | Dibenz(a,h)anthracene      | 1700  | 1600   | ug/Kg | 94  |     |      |      | 61  | 112    |     |
|               | Benzo(g,h,i)perylene       | 1700  | 1700   | ug/Kg | 100 |     |      |      | 70  | 108    |     |
|               | 1,2,4,5-Tetrachlorobenzene | 1700  | 1400   | ug/Kg | 82  |     |      |      | 53  | 101    |     |
|               | 1,4-Dioxane                | 1700  | 1200   | ug/Kg | 71  |     |      |      | 50  | 96     |     |
|               | 2,3,4,6-Tetrachlorophenol  | 1700  | 1800   | ug/Kg | 106 |     |      |      | 59  | 108    |     |

4B

SEMIVOLATILE METHOD BLANK SUMMARY

Client ID

PB169827BL

Lab Name: Alliance

Contract: ROYF02

Lab Code: ACE

SDG NO.: Q3178

Lab File ID: BF143803.D

Lab Sample ID: PB169827BL

Instrument ID: BNA\_F

Date Extracted: 09/25/2025

Matrix: (soil/water) SOIL

Date Analyzed: 09/25/2025

Level: (low/med) LOW

Time Analyzed: 13:46

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 |
|-------------------|------------------|----------------|------------------|
| PB169827BS        | PB169827BS       | BF143804.D     | 09/25/2025       |
| EME-TS14-01       | Q3178-01         | BF143816.D     | 09/25/2025       |
| EME-TS14-01MS     | Q3178-02MS       | BF143817.D     | 09/25/2025       |
| EME-TS14-01MSD    | Q3178-03MSD      | BF143818.D     | 09/25/2025       |

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



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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance  
Lab Code: ACE  
Lab File ID: BF143790.D  
Instrument ID: BNA\_F

Contract: ROYF02  
SDG NO.: Q3178  
DFTPP Injection Date: 09/23/2025  
DFTPP Injection Time: 09:31

| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 68  | Less than 2.0% of mass 69          | 0.5 ( 1.6 ) 1        |
| 69  | Mass 69 relative abundance         | 33.4                 |
| 70  | Less than 2.0% of mass 69          | 0.2 ( 0.6 ) 1        |
| 197 | Less than 2.0% of mass 198         | 0.4                  |
| 198 | Base Peak, 100% relative abundance | 100                  |
| 199 | 5.0 to 9.0% of mass 198            | 6.6                  |
| 365 | Greater than 1% of mass 198        | 3.2                  |
| 441 | Present, but less than mass 443    | 15.1                 |
| 442 | Greater than 50% of mass 198       | 98.5                 |
| 443 | 15.0 - 24.0% of mass 442           | 18.6 ( 18.9 ) 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 |
|-------------------|------------------|----------------|------------------|------------------|
| SSTDICC2.5        | SSTDICC2.5       | BF143791.D     | 09/23/2025       | 10:28            |
| SSTDICC005        | SSTDICC005       | BF143792.D     | 09/23/2025       | 10:58            |
| SSTDICC010        | SSTDICC010       | BF143793.D     | 09/23/2025       | 11:57            |
| SSTDICC020        | SSTDICC020       | BF143794.D     | 09/23/2025       | 12:27            |
| SSTDICCC040       | SSTDICCC040      | BF143795.D     | 09/23/2025       | 13:59            |
| SSTDICC050        | SSTDICC050       | BF143796.D     | 09/23/2025       | 14:28            |
| SSTDICC060        | SSTDICC060       | BF143797.D     | 09/23/2025       | 14:58            |
| SSTDICC080        | SSTDICC080       | BF143798.D     | 09/23/2025       | 15:27            |



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance  
Lab Code: ACE  
Lab File ID: BF143801.D  
Instrument ID: BNA\_F

Contract: ROYF02  
SDG NO.: Q3178  
DFTPP Injection Date: 09/25/2025  
DFTPP Injection Time: 12:03

| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 68  | Less than 2.0% of mass 69          | 0.5 ( 1.5 ) 1        |
| 69  | Mass 69 relative abundance         | 32.7                 |
| 70  | Less than 2.0% of mass 69          | 0.2 ( 0.5 ) 1        |
| 197 | Less than 2.0% of mass 198         | 0.3                  |
| 198 | Base Peak, 100% relative abundance | 100                  |
| 199 | 5.0 to 9.0% of mass 198            | 6.6                  |
| 365 | Greater than 1% of mass 198        | 3                    |
| 441 | Present, but less than mass 443    | 12.2                 |
| 442 | Greater than 50% of mass 198       | 78                   |
| 443 | 15.0 - 24.0% of mass 442           | 14.7 ( 18.8 ) 2      |

1-Value is % mass 69

2-Value is % mass 442

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

| EPA<br>SAMPLE NO. | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE<br>ANALYZED | TIME<br>ANALYZED |
|-------------------|------------------|----------------|------------------|------------------|
| SSTDCCC040        | SSTDCCC040       | BF143802.D     | 09/25/2025       | 13:06            |
| PB169827BL        | PB169827BL       | BF143803.D     | 09/25/2025       | 13:46            |
| PB169827BS        | PB169827BS       | BF143804.D     | 09/25/2025       | 14:16            |
| EME-TS14-01       | Q3178-01         | BF143816.D     | 09/25/2025       | 21:21            |
| EME-TS14-01MS     | Q3178-02MS       | BF143817.D     | 09/25/2025       | 21:50            |
| EME-TS14-01MSD    | Q3178-03MSD      | BF143818.D     | 09/25/2025       | 22:20            |

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE

SDG NO.: Q3178

Client ID : SSTDCCC040

Date Analyzed: 09/25/2025

Lab File ID: BF143802.D

Time Analyzed: 13:06

Instrument ID: BNA\_F

GC Column: DB-UI ID: 0.18 (mm)

|                   | IS1 (DCB)<br>AREA # | RT #  | IS2 (NPT)<br>AREA # | RT #  | IS3 (ANT)<br>AREA # | RT #   |
|-------------------|---------------------|-------|---------------------|-------|---------------------|--------|
| 12 HOUR STD       | 104582              | 6.887 | 347863              | 8.17  | 153714              | 9.92   |
| UPPER LIMIT       | 209164              | 7.387 | 695726              | 8.669 | 307428              | 10.422 |
| LOWER LIMIT       | 52291               | 6.387 | 173932              | 7.669 | 76857               | 9.422  |
| EPA SAMPLE NO.    |                     |       |                     |       |                     |        |
| 01 PB169827BL     | 90559.5             | 6.89  | 349994              | 8.16  | 191362              | 9.92   |
| 02 PB169827BS     | 154944              | 6.89  | 586166              | 8.17  | 295245              | 9.93   |
| 03 EME-TS14-01    | 95670.5             | 6.89  | 311670              | 8.17  | 150308              | 9.92   |
| 04 EME-TS14-01MS  | 121227              | 6.89  | 419443              | 8.17  | 197016              | 9.92   |
| 05 EME-TS14-01MSD | 126353              | 6.89  | 459229              | 8.17  | 224210              | 9.93   |

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.: Q3178

Client ID: SSTDCCC040

Date Analyzed: 09/25/2025

Lab File ID: BF143802.D

Time Analyzed: 13:06

Instrument ID: BNA\_F

GC Column: DB-UI ID: 0.18 (mm)

|                   | IS4 (PHN)<br>AREA # | RT #  | IS5 (CRY)<br>AREA # | RT #   | IS6 (PRY)<br>AREA # | RT #   |
|-------------------|---------------------|-------|---------------------|--------|---------------------|--------|
| 12 HOUR STD       | 230130              | 11.41 | 269656              | 14.057 | 377788              | 15.533 |
| UPPER LIMIT       | 460260              | 11.91 | 539312              | 14.557 | 755576              | 16.033 |
| LOWER LIMIT       | 115065              | 10.91 | 134828              | 13.557 | 188894              | 15.033 |
| EPA SAMPLE NO.    |                     |       |                     |        |                     |        |
| 01 PB169827BL     | 314170              | 11.41 | 278890              | 14.05  | 321334              | 15.53  |
| 02 PB169827BS     | 455131              | 11.42 | 452412              | 14.06  | 566269              | 15.53  |
| 03 EME-TS14-01    | 275753              | 11.41 | 436712              | 14.06  | 458474              | 15.53  |
| 04 EME-TS14-01MS  | 338625              | 11.41 | 466221              | 14.06  | 479520              | 15.53  |
| 05 EME-TS14-01MSD | 355718              | 11.42 | 435935              | 14.06  | 434629              | 15.53  |

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:            | Weston Solutions, Inc. | Date Collected: | 09/23/25                     |
| Project:           | RFP 916                | Date Received:  | 09/23/25                     |
| Client Sample ID:  | EME-TS14-01            | SDG No.:        | Q3178                        |
| Lab Sample ID:     | Q3178-01               | Matrix:         | SOIL                         |
| Analytical Method: | 8270E                  | % Solid:        | 71.4                         |
| Sample Wt/Vol:     | 30.07      Units:    g | Final Vol:      | 1000                      uL |
| Soil Aliquot Vol:  | uL                     | Test:           | SVOC-TCL BNA -20             |
| Extraction Type :  | Decanted :      N      | Level :         | LOW                          |
| Injection Volume : | GPC Factor :    1.0    | GPC Cleanup :   | N                      PH :  |
| Prep Method :      | SW3541                 |                 |                              |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BF143816.D        | 1         | 09/25/25 09:25 | 09/25/25 21:21 | PB169827      |

| CAS Number     | Parameter                   | Conc. | Qualifier | MDL  | LOQ / CRQL | Units(Dry Weight) |
|----------------|-----------------------------|-------|-----------|------|------------|-------------------|
| <b>TARGETS</b> |                             |       |           |      |            |                   |
| 100-52-7       | Benzaldehyde                | 220   | U         | 220  | 460        | ug/Kg             |
| 108-95-2       | Phenol                      | 30.9  | U         | 30.9 | 240        | ug/Kg             |
| 111-44-4       | bis(2-Chloroethyl)ether     | 34.0  | U         | 34.0 | 240        | ug/Kg             |
| 95-57-8        | 2-Chlorophenol              | 34.1  | U         | 34.1 | 240        | ug/Kg             |
| 95-48-7        | 2-Methylphenol              | 41.8  | U         | 41.8 | 240        | ug/Kg             |
| 108-60-1       | 2,2-oxybis(1-Chloropropane) | 52.4  | U         | 52.4 | 240        | ug/Kg             |
| 98-86-2        | Acetophenone                | 41.2  | U         | 41.2 | 240        | ug/Kg             |
| 65794-96-9     | 3+4-Methylphenols           | 57.4  | U         | 57.4 | 460        | ug/Kg             |
| 621-64-7       | n-Nitroso-di-n-propylamine  | 66.2  | U         | 66.2 | 110        | ug/Kg             |
| 67-72-1        | Hexachloroethane            | 24.6  | U         | 24.6 | 240        | ug/Kg             |
| 98-95-3        | Nitrobenzene                | 25.6  | U         | 25.6 | 240        | ug/Kg             |
| 78-59-1        | Isophorone                  | 45.8  | U         | 45.8 | 240        | ug/Kg             |
| 88-75-5        | 2-Nitrophenol               | 81.3  | U         | 81.3 | 240        | ug/Kg             |
| 105-67-9       | 2,4-Dimethylphenol          | 90.5  | U         | 90.5 | 240        | ug/Kg             |
| 111-91-1       | bis(2-Chloroethoxy)methane  | 43.0  | U         | 43.0 | 240        | ug/Kg             |
| 120-83-2       | 2,4-Dichlorophenol          | 39.5  | U         | 39.5 | 240        | ug/Kg             |
| 91-20-3        | Naphthalene                 | 31.7  | U         | 31.7 | 240        | ug/Kg             |
| 106-47-8       | 4-Chloroaniline             | 49.5  | U         | 49.5 | 240        | ug/Kg             |
| 87-68-3        | Hexachlorobutadiene         | 35.4  | U         | 35.4 | 240        | ug/Kg             |
| 105-60-2       | Caprolactam                 | 72.8  | U         | 72.8 | 460        | ug/Kg             |
| 59-50-7        | 4-Chloro-3-methylphenol     | 40.1  | U         | 40.1 | 240        | ug/Kg             |
| 91-57-6        | 2-Methylnaphthalene         | 35.8  | U         | 35.8 | 240        | ug/Kg             |
| 77-47-4        | Hexachlorocyclopentadiene   | 160   | U         | 160  | 460        | ug/Kg             |
| 88-06-2        | 2,4,6-Trichlorophenol       | 27.7  | U         | 27.7 | 240        | ug/Kg             |
| 95-95-4        | 2,4,5-Trichlorophenol       | 40.7  | U         | 40.7 | 240        | ug/Kg             |
| 92-52-4        | 1,1-Biphenyl                | 30.5  | U         | 30.5 | 240        | ug/Kg             |
| 91-58-7        | 2-Chloronaphthalene         | 31.4  | U         | 31.4 | 240        | ug/Kg             |
| 88-74-4        | 2-Nitroaniline              | 67.2  | U         | 67.2 | 240        | ug/Kg             |
| 131-11-3       | Dimethylphthalate           | 37.9  | U         | 37.9 | 240        | ug/Kg             |



## Report of Analysis

|                    |                        |                 |                              |
|--------------------|------------------------|-----------------|------------------------------|
| Client:            | Weston Solutions, Inc. | Date Collected: | 09/23/25                     |
| Project:           | RFP 916                | Date Received:  | 09/23/25                     |
| Client Sample ID:  | EME-TS14-01            | SDG No.:        | Q3178                        |
| Lab Sample ID:     | Q3178-01               | Matrix:         | SOIL                         |
| Analytical Method: | 8270E                  | % Solid:        | 71.4                         |
| Sample Wt/Vol:     | 30.07      Units:    g | Final Vol:      | 1000                      uL |
| Soil Aliquot Vol:  | uL                     | Test:           | SVOC-TCL BNA -20             |
| Extraction Type :  | Decanted :      N      | Level :         | LOW                          |
| Injection Volume : | GPC Factor :    1.0    | GPC Cleanup :   | N                      PH :  |
| Prep Method :      | SW3541                 |                 |                              |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BF143816.D        | 1         | 09/25/25 09:25 | 09/25/25 21:21 | PB169827      |

| CAS Number | Parameter                  | Conc. | Qualifier | MDL  | LOQ / CRQL | Units(Dry Weight) |
|------------|----------------------------|-------|-----------|------|------------|-------------------|
| 208-96-8   | Acenaphthylene             | 40.4  | U         | 40.4 | 240        | ug/Kg             |
| 606-20-2   | 2,6-Dinitrotoluene         | 46.9  | UQ        | 46.9 | 240        | ug/Kg             |
| 99-09-2    | 3-Nitroaniline             | 64.3  | U         | 64.3 | 240        | ug/Kg             |
| 83-32-9    | Acenaphthene               | 29.8  | U         | 29.8 | 240        | ug/Kg             |
| 51-28-5    | 2,4-Dinitrophenol          | 320   | U         | 320  | 460        | ug/Kg             |
| 100-02-7   | 4-Nitrophenol              | 150   | U         | 150  | 460        | ug/Kg             |
| 132-64-9   | Dibenzofuran               | 31.7  | U         | 31.7 | 240        | ug/Kg             |
| 121-14-2   | 2,4-Dinitrotoluene         | 70.0  | U         | 70.0 | 240        | ug/Kg             |
| 84-66-2    | Diethylphthalate           | 39.5  | U         | 39.5 | 240        | ug/Kg             |
| 7005-72-3  | 4-Chlorophenyl-phenylether | 37.3  | U         | 37.3 | 240        | ug/Kg             |
| 86-73-7    | Fluorene                   | 35.4  | U         | 35.4 | 240        | ug/Kg             |
| 100-01-6   | 4-Nitroaniline             | 89.7  | U         | 89.7 | 240        | ug/Kg             |
| 534-52-1   | 4,6-Dinitro-2-methylphenol | 140   | U         | 140  | 460        | ug/Kg             |
| 86-30-6    | n-Nitrosodiphenylamine     | 46.0  | U         | 46.0 | 240        | ug/Kg             |
| 101-55-3   | 4-Bromophenyl-phenylether  | 38.8  | U         | 38.8 | 240        | ug/Kg             |
| 118-74-1   | Hexachlorobenzene          | 35.4  | U         | 35.4 | 240        | ug/Kg             |
| 1912-24-9  | Atrazine                   | 47.5  | U         | 47.5 | 240        | ug/Kg             |
| 87-86-5    | Pentachlorophenol          | 71.7  | U         | 71.7 | 460        | ug/Kg             |
| 85-01-8    | Phenanthrene               | 29.2  | U         | 29.2 | 240        | ug/Kg             |
| 120-12-7   | Anthracene                 | 46.5  | U         | 46.5 | 240        | ug/Kg             |
| 86-74-8    | Carbazole                  | 43.6  | U         | 43.6 | 240        | ug/Kg             |
| 84-74-2    | Di-n-butylphthalate        | 66.9  | U         | 66.9 | 240        | ug/Kg             |
| 206-44-0   | Fluoranthene               | 41.9  | U         | 41.9 | 240        | ug/Kg             |
| 129-00-0   | Pyrene                     | 50.3  | U         | 50.3 | 240        | ug/Kg             |
| 85-68-7    | Butylbenzylphthalate       | 99.8  | UQ        | 99.8 | 240        | ug/Kg             |
| 91-94-1    | 3,3-Dichlorobenzidine      | 51.3  | U         | 51.3 | 460        | ug/Kg             |
| 56-55-3    | Benzo(a)anthracene         | 32.1  | U         | 32.1 | 240        | ug/Kg             |
| 218-01-9   | Chrysene                   | 27.8  | U         | 27.8 | 240        | ug/Kg             |
| 117-81-7   | Bis(2-ethylhexyl)phthalate | 82.7  | U         | 82.7 | 240        | ug/Kg             |
| 117-84-0   | Di-n-octyl phthalate       | 120   | U         | 120  | 460        | ug/Kg             |
| 205-99-2   | Benzo(b)fluoranthene       | 26.5  | U         | 26.5 | 240        | ug/Kg             |

## Report of Analysis

|                    |                        |                 |                  |
|--------------------|------------------------|-----------------|------------------|
| Client:            | Weston Solutions, Inc. | Date Collected: | 09/23/25         |
| Project:           | RFP 916                | Date Received:  | 09/23/25         |
| Client Sample ID:  | EME-TS14-01            | SDG No.:        | Q3178            |
| Lab Sample ID:     | Q3178-01               | Matrix:         | SOIL             |
| Analytical Method: | 8270E                  | % Solid:        | 71.4             |
| Sample Wt/Vol:     | 30.07      Units: g    | Final Vol:      | 1000      uL     |
| Soil Aliquot Vol:  | uL                     | Test:           | SVOC-TCL BNA -20 |
| Extraction Type :  | Decanted : N           | Level :         | LOW              |
| Injection Volume : | GPC Factor : 1.0       | GPC Cleanup :   | N      PH :      |
| Prep Method :      | SW3541                 |                 |                  |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BF143816.D        | 1         | 09/25/25 09:25 | 09/25/25 21:21 | PB169827      |

| CAS Number | Parameter                  | Conc. | Qualifier | MDL  | LOQ / CRQL | Units(Dry Weight) |
|------------|----------------------------|-------|-----------|------|------------|-------------------|
| 207-08-9   | Benzo(k)fluoranthene       | 31.3  | U         | 31.3 | 240        | ug/Kg             |
| 50-32-8    | Benzo(a)pyrene             | 41.2  | U         | 41.2 | 240        | ug/Kg             |
| 193-39-5   | Indeno(1,2,3-cd)pyrene     | 40.7  | U         | 40.7 | 240        | ug/Kg             |
| 53-70-3    | Dibenzo(a,h)anthracene     | 38.3  | U         | 38.3 | 240        | ug/Kg             |
| 191-24-2   | Benzo(g,h,i)perylene       | 35.9  | U         | 35.9 | 240        | ug/Kg             |
| 95-94-3    | 1,2,4,5-Tetrachlorobenzene | 35.8  | U         | 35.8 | 240        | ug/Kg             |
| 123-91-1   | 1,4-Dioxane                | 63.2  | U         | 63.2 | 240        | ug/Kg             |
| 58-90-2    | 2,3,4,6-Tetrachlorophenol  | 38.3  | U         | 38.3 | 240        | ug/Kg             |

**SURROGATES**

|            |                      |      |  |          |     |          |
|------------|----------------------|------|--|----------|-----|----------|
| 367-12-4   | 2-Fluorophenol       | 40.5 |  | 18 - 112 | 27% | SPK: 150 |
| 13127-88-3 | Phenol-d6            | 40.1 |  | 15 - 107 | 27% | SPK: 150 |
| 4165-60-0  | Nitrobenzene-d5      | 30.7 |  | 18 - 107 | 31% | SPK: 100 |
| 321-60-8   | 2-Fluorobiphenyl     | 24.3 |  | 20 - 109 | 24% | SPK: 100 |
| 118-79-6   | 2,4,6-Tribromophenol | 43.2 |  | 10 - 116 | 29% | SPK: 150 |
| 1718-51-0  | Terphenyl-d14        | 22.2 |  | 10 - 105 | 22% | SPK: 100 |

**INTERNAL STANDARDS**

|            |                        |        |        |
|------------|------------------------|--------|--------|
| 3855-82-1  | 1,4-Dichlorobenzene-d4 | 95700  | 6.887  |
| 1146-65-2  | Naphthalene-d8         | 312000 | 8.169  |
| 15067-26-2 | Acenaphthene-d10       | 150000 | 9.922  |
| 1517-22-2  | Phenanthrene-d10       | 276000 | 11.41  |
| 1719-03-5  | Chrysene-d12           | 437000 | 14.057 |
| 1520-96-3  | Perylene-d12           | 458000 | 15.533 |

**TENTATIVE IDENTIFIED COMPOUNDS**

|             |                               |     |   |      |       |
|-------------|-------------------------------|-----|---|------|-------|
| 000057-10-3 | n-Hexadecanoic acid           | 280 | J | 11.9 | ug/Kg |
| 028336-57-4 | Cyclohexane, 1,3,5-triphenyl- | 200 | J | 13.9 | ug/Kg |
| 000112-84-5 | 13-Docosenamide, (Z)-         | 120 | J | 14.8 | ug/Kg |

## Report of Analysis

|                    |                        |                 |                              |
|--------------------|------------------------|-----------------|------------------------------|
| Client:            | Weston Solutions, Inc. | Date Collected: | 09/23/25                     |
| Project:           | RFP 916                | Date Received:  | 09/23/25                     |
| Client Sample ID:  | EME-TS14-01            | SDG No.:        | Q3178                        |
| Lab Sample ID:     | Q3178-01               | Matrix:         | SOIL                         |
| Analytical Method: | 8270E                  | % Solid:        | 71.4                         |
| Sample Wt/Vol:     | 30.07      Units:    g | Final Vol:      | 1000                      uL |
| Soil Aliquot Vol:  | uL                     | Test:           | SVOC-TCL BNA -20             |
| Extraction Type :  | Decanted :    N        | Level :         | LOW                          |
| Injection Volume : | GPC Factor :    1.0    | GPC Cleanup :   | N                      PH :  |
| Prep Method :      | SW3541                 |                 |                              |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BF143816.D        | 1         | 09/25/25 09:25 | 09/25/25 21:21 | PB169827      |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|------------|-----------|-------|-----------|-----|------------|-------------------|
|------------|-----------|-------|-----------|-----|------------|-------------------|

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\_F\Data\BF092525\  
Data File : BF143816.D  
Acq On : 25 Sep 2025 21:21  
Operator : RC/JU  
Sample : Q3178-01  
Misc :  
ALS Vial : 15 Sample Multiplier: 2

Instrument :  
BNA\_F  
ClientSampleId :  
EME-TS14-01

Quant Time: Sep 25 23:25:48 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF092325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Sep 24 05:00:00 2025  
Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 6.887  | 152  | 191341   | 40.000 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.169  | 136  | 623340   | 40.000 | ng    | 0.00     |
| 39) Acenaphthene-d10        | 9.922  | 164  | 300615   | 40.000 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.410 | 188  | 551506   | 40.000 | ng    | 0.00     |
| 76) Chrysene-d12            | 14.057 | 240  | 873424   | 40.000 | ng    | 0.00     |
| 86) Perylene-d12            | 15.533 | 264  | 916948   | 40.000 | ng    | 0.00     |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.493  | 112  | 476690   | 40.476 | ng    | 0.00     |
| 7) Phenol-d6                | 6.498  | 99   | 545797   | 40.110 | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.439  | 82   | 312415   | 30.679 | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol    | 10.710 | 330  | 192287   | 43.200 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.239  | 172  | 467315   | 24.258 | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.998 | 244  | 952847   | 22.187 | ng    | 0.00     |

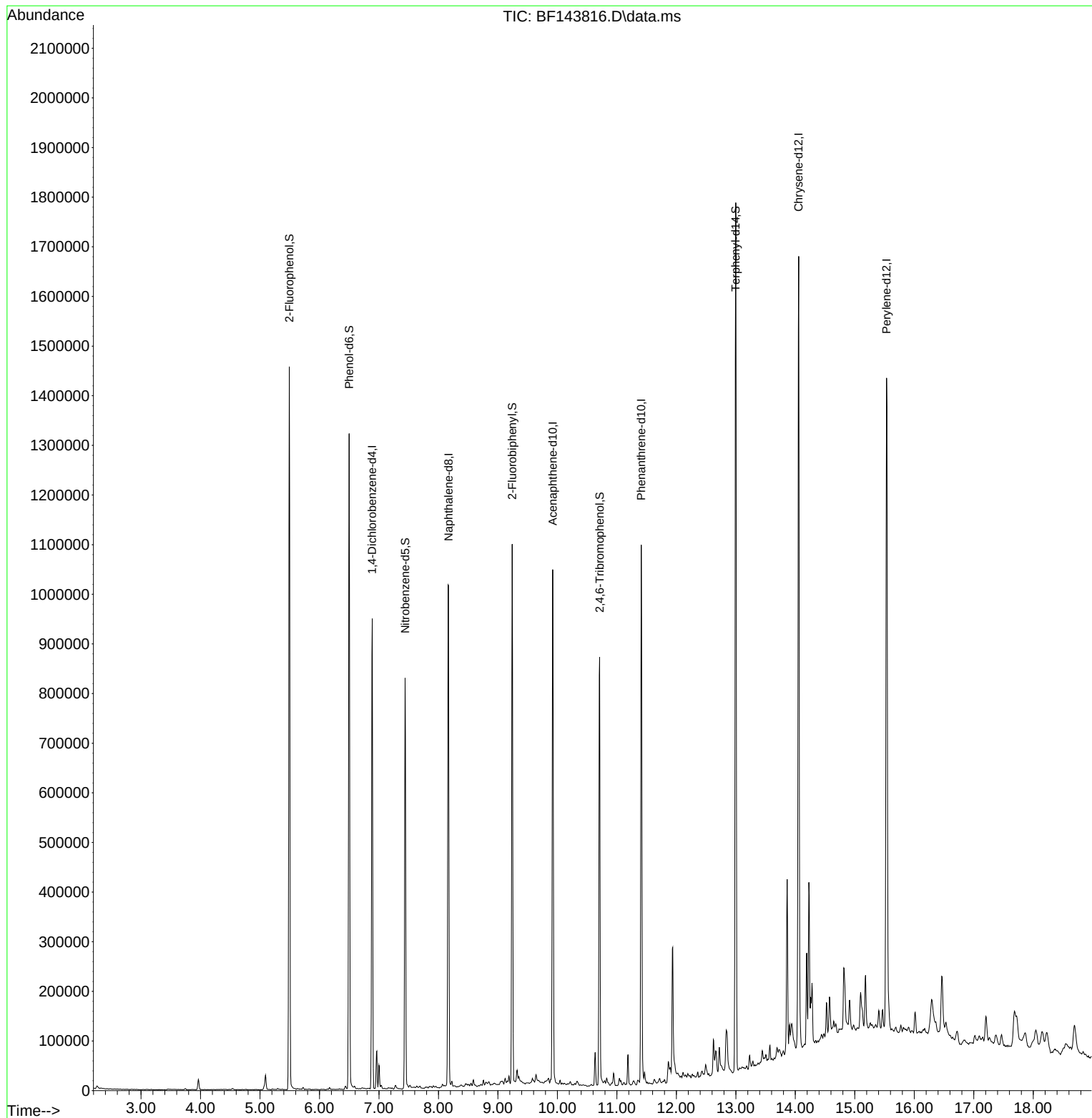
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

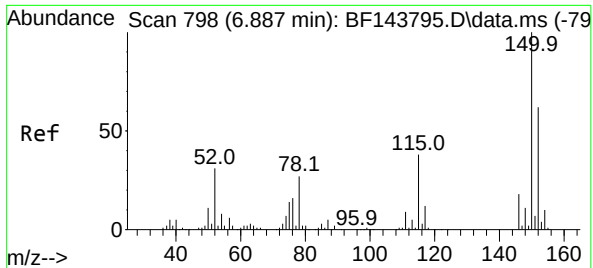
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF092525\  
Data File : BF143816.D  
Acq On : 25 Sep 2025 21:21  
Operator : RC/JU  
Sample : Q3178-01  
Misc :  
ALS Vial : 15 Sample Multiplier: 2

Instrument :  
BNA\_F  
ClientSampleId :  
EME-TS14-01

Quant Time: Sep 25 23:25:48 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF092325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Sep 24 05:00:00 2025  
Response via : Initial Calibration

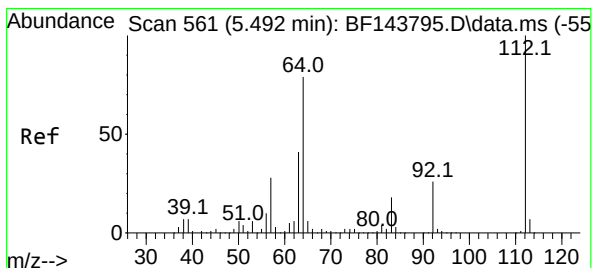
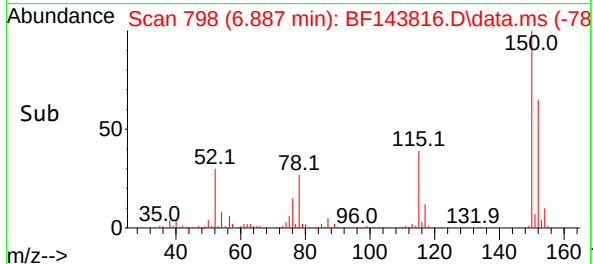
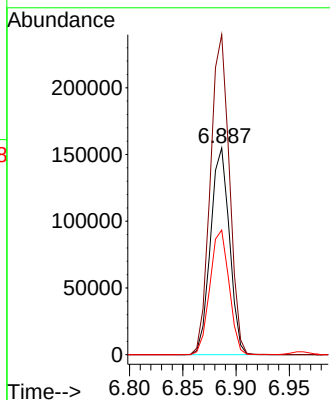
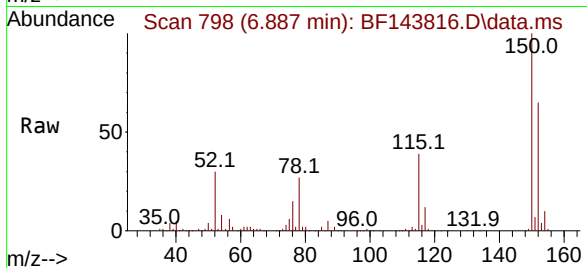




#1  
1,4-Dichlorobenzene-d4  
Concen: 40.000 ng  
RT: 6.887 min Scan# 798  
Delta R.T. -0.000 min  
Lab File: BF143816.D  
Acq: 25 Sep 2025 21:21

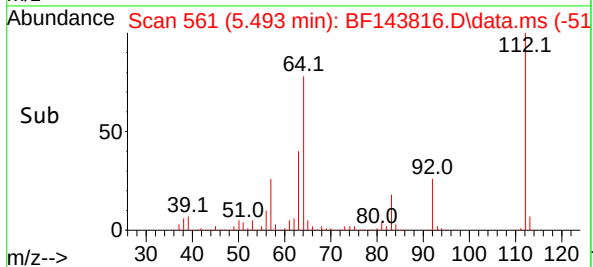
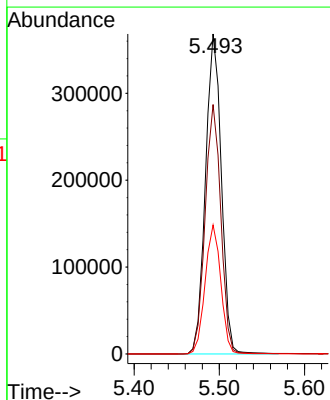
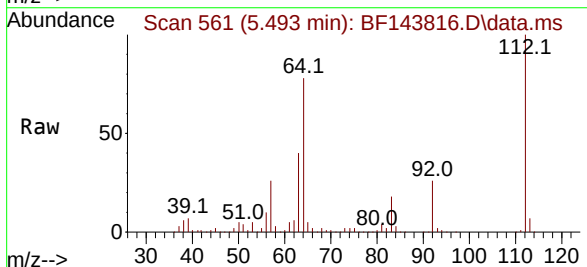
Instrument :  
BNA\_F  
ClientSampleId :  
EME-TS14-01

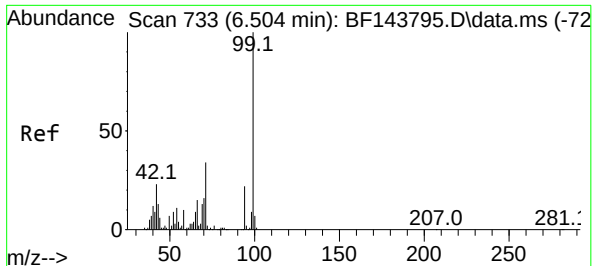
Tgt Ion:152 Resp: 191341  
Ion Ratio Lower Upper  
152 100  
150 154.8 129.6 194.4  
115 60.3 49.0 73.4



#5  
2-Fluorophenol  
Concen: 40.476 ng  
RT: 5.493 min Scan# 561  
Delta R.T. -0.005 min  
Lab File: BF143816.D  
Acq: 25 Sep 2025 21:21

Tgt Ion:112 Resp: 476690  
Ion Ratio Lower Upper  
112 100  
64 78.0 63.0 94.4  
63 40.3 32.6 49.0

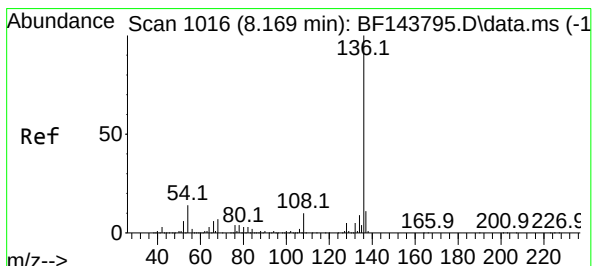
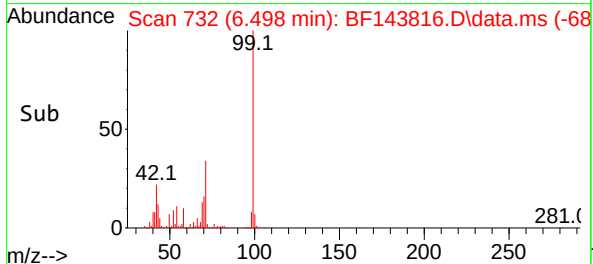
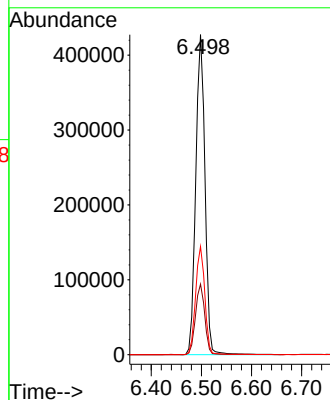
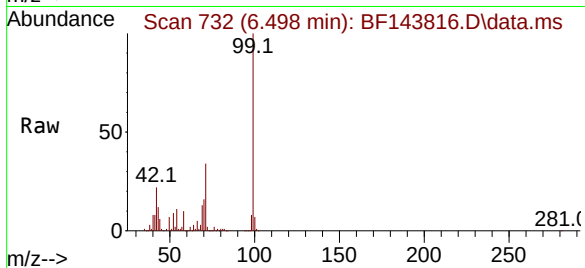




#7  
Phenol-d6  
Concen: 40.110 ng  
RT: 6.498 min Scan# 71  
Delta R.T. -0.012 min  
Lab File: BF143816.D  
Acq: 25 Sep 2025 21:21

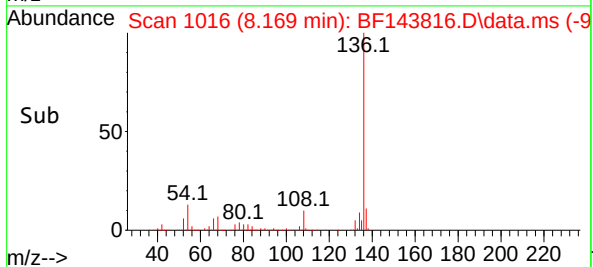
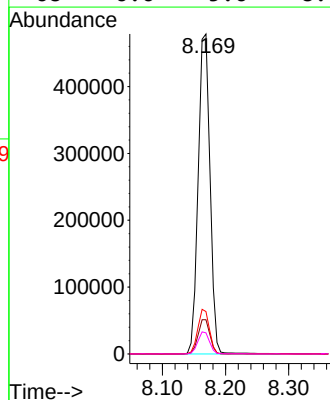
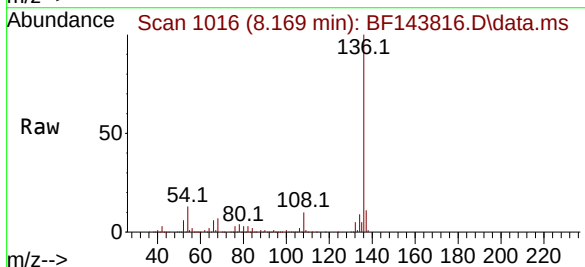
Instrument :  
BNA\_F  
ClientSampleId :  
EME-TS14-01

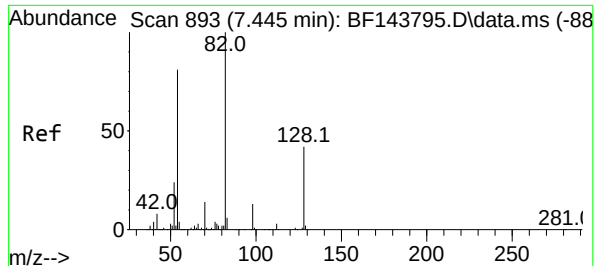
Tgt Ion: 99 Resp: 545797  
Ion Ratio Lower Upper  
99 100  
42 22.1 18.6 28.0  
71 33.8 27.0 40.4



#21  
Naphthalene-d8  
Concen: 40.000 ng  
RT: 8.169 min Scan# 1016  
Delta R.T. -0.000 min  
Lab File: BF143816.D  
Acq: 25 Sep 2025 21:21

Tgt Ion: 136 Resp: 623340  
Ion Ratio Lower Upper  
136 100  
137 10.7 9.0 13.4  
54 13.3 11.2 16.8  
68 6.6 5.6 8.4





#23

Nitrobenzene-d5

Concen: 30.679 ng

RT: 7.439 min Scan# 89

Delta R.T. -0.012 min

Lab File: BF143816.D

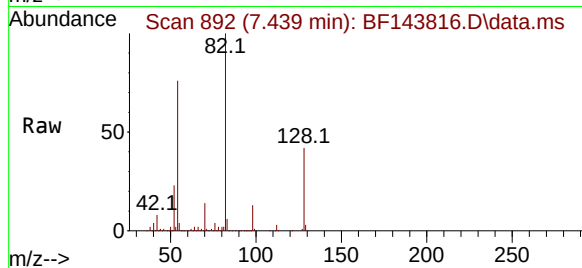
Acq: 25 Sep 2025 21:21

Instrument :

BNA\_F

ClientSampleId :

EME-TS14-01



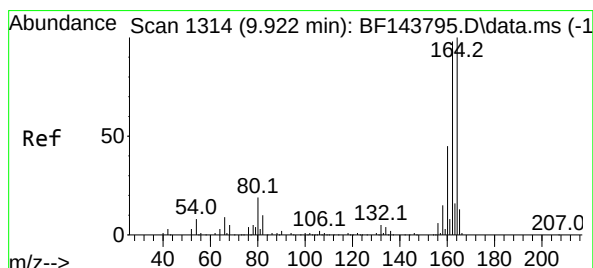
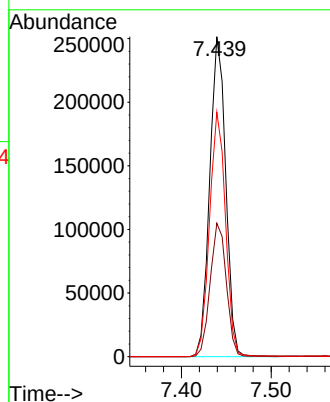
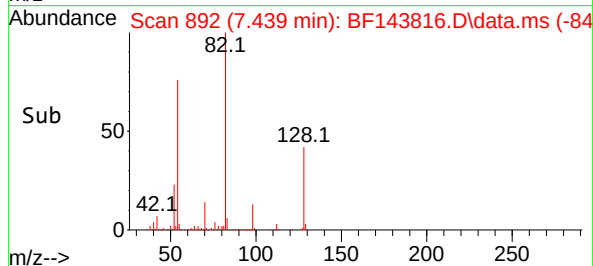
Tgt Ion: 82 Resp: 312415

Ion Ratio Lower Upper

82 100

128 41.7 33.3 49.9

54 76.4 64.2 96.4



#39

Acenaphthene-d10

Concen: 40.000 ng

RT: 9.922 min Scan# 1314

Delta R.T. -0.006 min

Lab File: BF143816.D

Acq: 25 Sep 2025 21:21

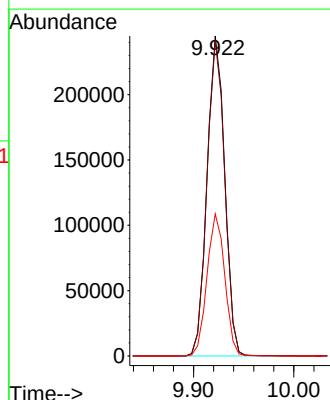
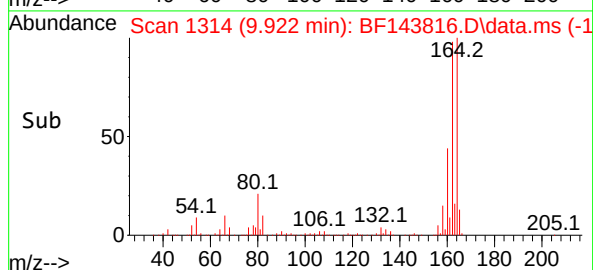
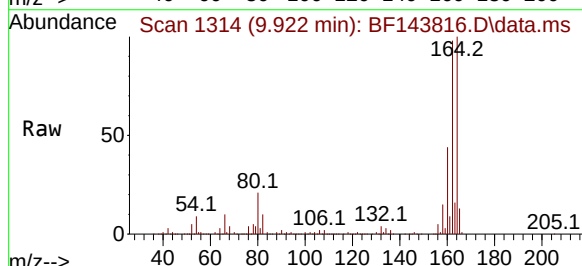
Tgt Ion: 164 Resp: 300615

Ion Ratio Lower Upper

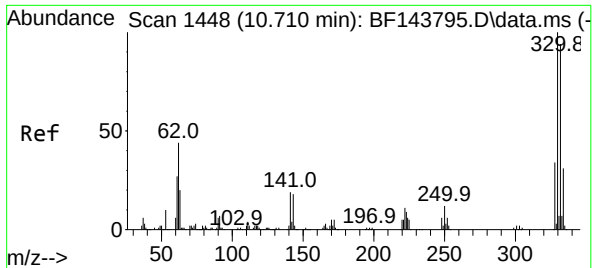
164 100

162 98.5 78.8 118.2

160 44.4 35.8 53.6







#42

2,4,6-Tribromophenol

Concen: 43.200 ng

RT: 10.710 min Scan# 1448

Delta R.T. -0.006 min

Lab File: BF143816.D

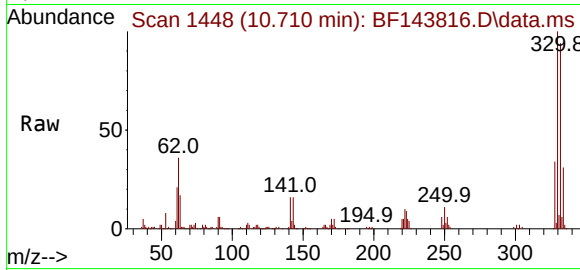
Acq: 25 Sep 2025 21:21

Instrument :

BNA\_F

ClientSampleId :

EME-TS14-01



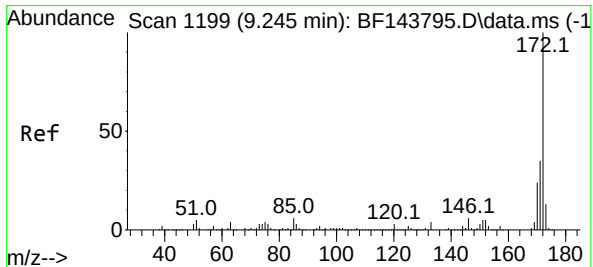
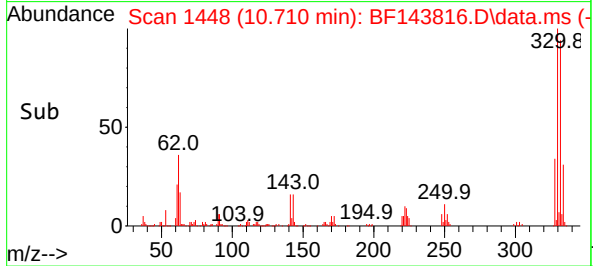
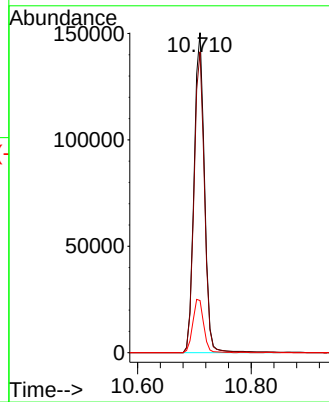
Tgt Ion:330 Resp: 192287

Ion Ratio Lower Upper

330 100

332 94.0 74.7 112.1

141 17.3 14.3 21.5



#45

2-Fluorobiphenyl

Concen: 24.258 ng

RT: 9.239 min Scan# 1198

Delta R.T. -0.006 min

Lab File: BF143816.D

Acq: 25 Sep 2025 21:21

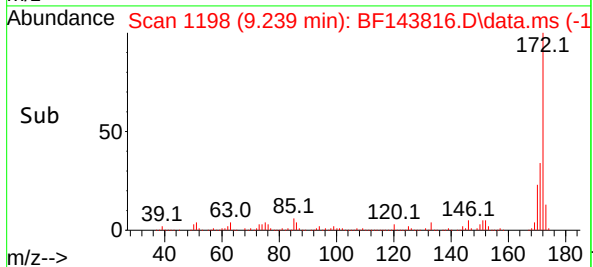
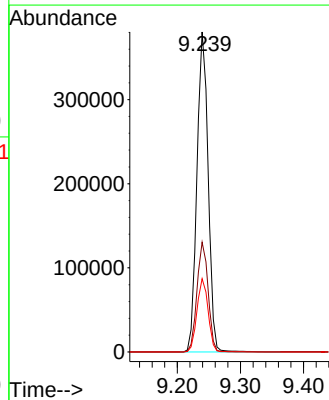
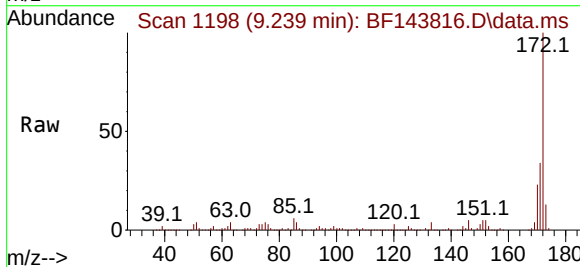
Tgt Ion:172 Resp: 467315

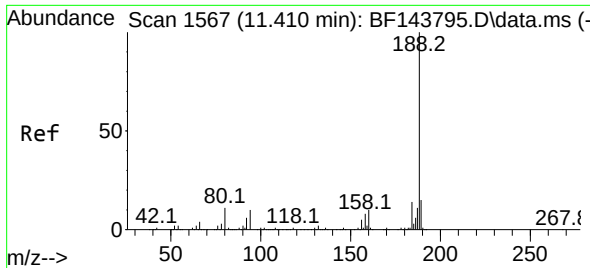
Ion Ratio Lower Upper

172 100

171 34.3 27.9 41.9

170 22.9 19.1 28.7

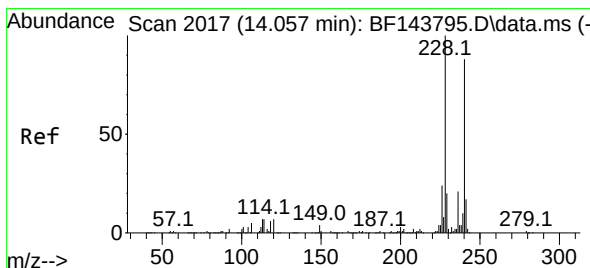
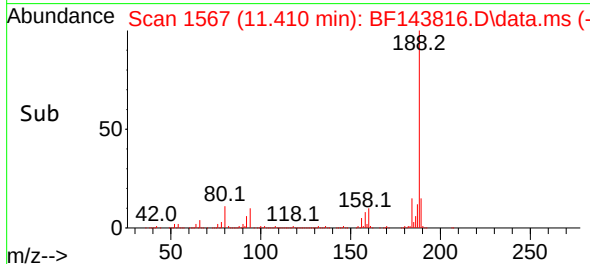
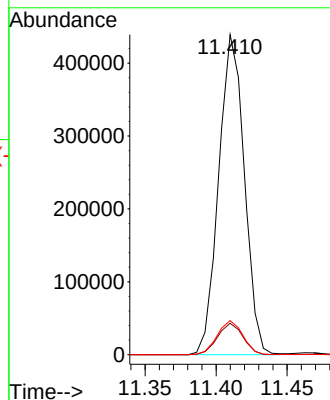
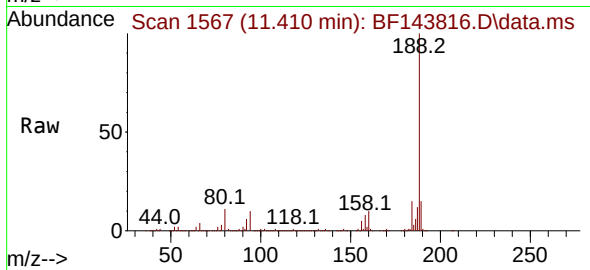




#64  
Phenanthrene-d10  
Concen: 40.000 ng  
RT: 11.410 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: BF143816.D  
Acq: 25 Sep 2025 21:21

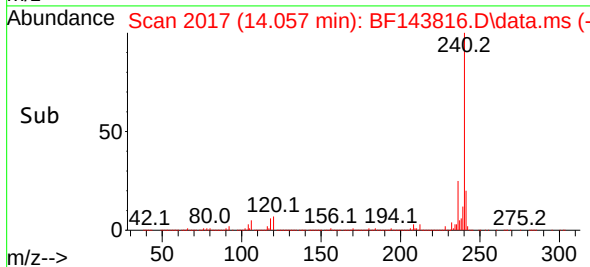
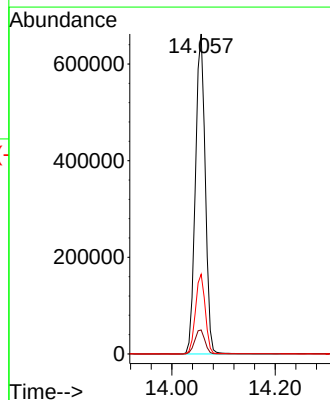
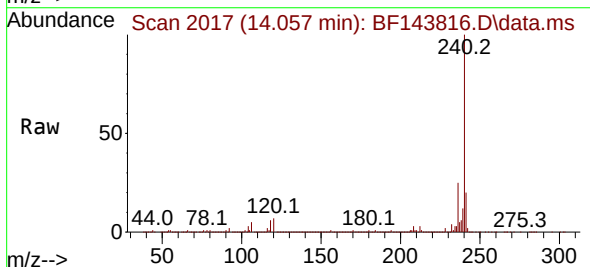
Instrument :  
BNA\_F  
ClientSampleId :  
EME-TS14-01

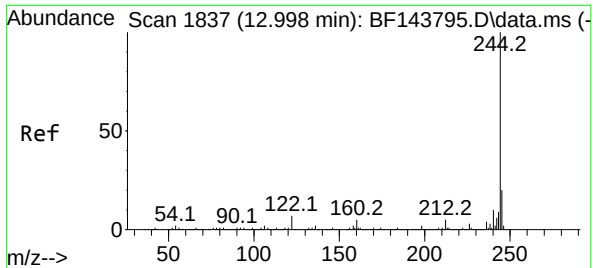
Tgt Ion:188 Resp: 551506  
Ion Ratio Lower Upper  
188 100  
94 9.8 8.2 12.2  
80 10.6 8.6 12.8



#76  
Chrysene-d12  
Concen: 40.000 ng  
RT: 14.057 min Scan# 2017  
Delta R.T. -0.006 min  
Lab File: BF143816.D  
Acq: 25 Sep 2025 21:21

Tgt Ion:240 Resp: 873424  
Ion Ratio Lower Upper  
240 100  
120 7.5 6.2 9.4  
236 24.9 19.4 29.2





#79

Terphenyl-d14

Concen: 22.187 ng

RT: 12.998 min Scan# 1837

Delta R.T. -0.006 min

Lab File: BF143816.D

Acq: 25 Sep 2025 21:21

Instrument :

BNA\_F

ClientSampleId :

EME-TS14-01

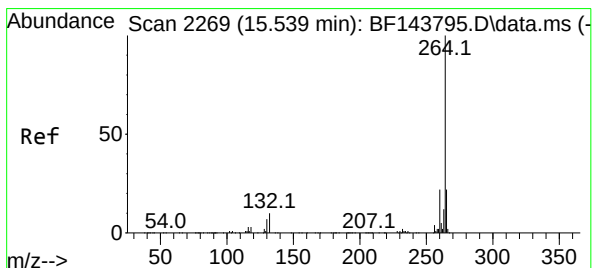
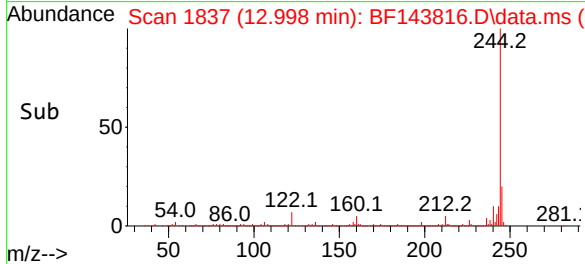
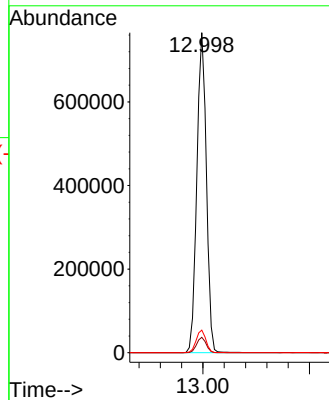
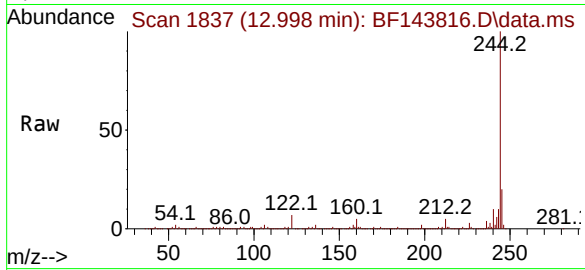
Tgt Ion:244 Resp: 952847

Ion Ratio Lower Upper

244 100

212 4.8 3.9 5.9

122 7.0 5.6 8.4



#86

Perylene-d12

Concen: 40.000 ng

RT: 15.533 min Scan# 2268

Delta R.T. -0.006 min

Lab File: BF143816.D

Acq: 25 Sep 2025 21:21

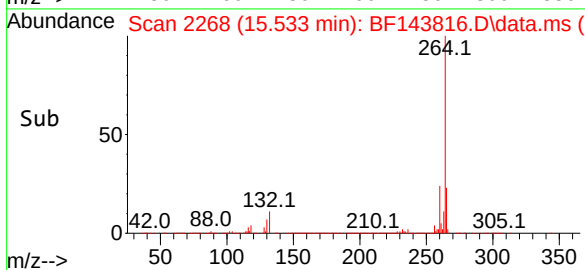
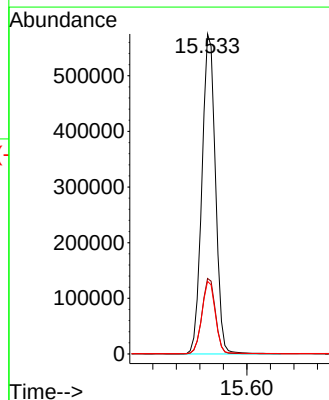
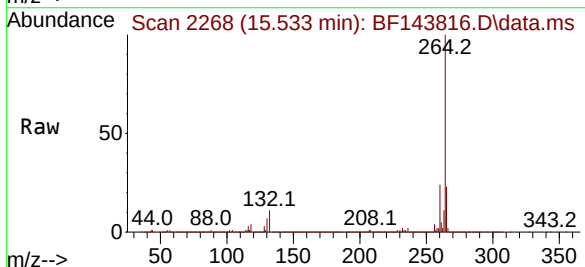
Tgt Ion:264 Resp: 916948

Ion Ratio Lower Upper

264 100

260 23.6 17.9 26.9

265 22.7 17.7 26.5



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF092525\  
 Data File : BF143816.D  
 Acq On : 25 Sep 2025 21:21  
 Operator : RC/JU  
 Sample : Q3178-01  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 2

Instrument :  
 BNA\_F  
 ClientSampleId :  
 EME-TS14-01

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF092325.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF143816.D\data.ms

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 3.963       | 294           | 301         | 307          | rBV      | 20753          | 32721         | 1.47%           | 0.140%        |
| 2         | 5.093       | 483           | 493         | 499          | rBV2     | 29213          | 50727         | 2.27%           | 0.217%        |
| 3         | 5.493       | 555           | 561         | 576          | rBV      | 1456533        | 1882316       | 84.40%          | 8.070%        |
| 4         | 6.498       | 726           | 732         | 745          | rBV      | 1319854        | 1690831       | 75.82%          | 7.249%        |
| 5         | 6.887       | 792           | 798         | 803          | rBV      | 946952         | 1185892       | 53.18%          | 5.084%        |
| 6         | 6.963       | 806           | 811         | 814          | rBV      | 75047          | 94056         | 4.22%           | 0.403%        |
| 7         | 6.998       | 814           | 817         | 821          | rVV      | 43961          | 52311         | 2.35%           | 0.224%        |
| 8         | 7.439       | 883           | 892         | 902          | rBV      | 828176         | 1051863       | 47.17%          | 4.509%        |
| 9         | 8.163       | 1010          | 1015        | 1022         | rBV      | 1007775        | 1314094       | 58.92%          | 5.634%        |
| 10        | 9.239       | 1193          | 1198        | 1203         | rBV      | 1086192        | 1332545       | 59.75%          | 5.713%        |
| 11        | 9.322       | 1208          | 1212        | 1215         | rBV      | 23162          | 32257         | 1.45%           | 0.138%        |
| 12        | 9.639       | 1262          | 1266        | 1272         | rBV2     | 15288          | 26085         | 1.17%           | 0.112%        |
| 13        | 9.922       | 1309          | 1314        | 1319         | rBV      | 1027572        | 1256524       | 56.34%          | 5.387%        |
| 14        | 10.633      | 1430          | 1435        | 1440         | rBV      | 66408          | 82594         | 3.70%           | 0.354%        |
| 15        | 10.710      | 1442          | 1448        | 1458         | rBV      | 861652         | 1144528       | 51.32%          | 4.907%        |
| 16        | 10.827      | 1465          | 1468        | 1478         | rVB3     | 14388          | 27159         | 1.22%           | 0.116%        |
| 17        | 10.945      | 1484          | 1488        | 1494         | rVB2     | 24590          | 34708         | 1.56%           | 0.149%        |
| 18        | 11.186      | 1524          | 1529        | 1537         | rVB      | 61108          | 77018         | 3.45%           | 0.330%        |
| 19        | 11.410      | 1562          | 1567        | 1574         | rVV      | 1085087        | 1407431       | 63.11%          | 6.034%        |
| 20        | 11.463      | 1574          | 1576        | 1582         | rVB2     | 21491          | 28671         | 1.29%           | 0.123%        |
| 21        | 11.863      | 1639          | 1644        | 1648         | rBV      | 42833          | 81274         | 3.64%           | 0.348%        |
| 22        | 11.939      | 1652          | 1657        | 1669         | rVB2     | 258912         | 426031        | 19.10%          | 1.826%        |
| 23        | 12.492      | 1747          | 1751        | 1758         | rVB8     | 20030          | 35581         | 1.60%           | 0.153%        |
| 24        | 12.621      | 1769          | 1773        | 1777         | rBV      | 68395          | 104420        | 4.68%           | 0.448%        |
| 25        | 12.663      | 1777          | 1780        | 1786         | rVV2     | 44174          | 74980         | 3.36%           | 0.321%        |
| 26        | 12.721      | 1786          | 1790        | 1803         | rVV3     | 50450          | 101505        | 4.55%           | 0.435%        |
| 27        | 12.839      | 1805          | 1810        | 1828         | rVB2     | 86308          | 227500        | 10.20%          | 0.975%        |
| 28        | 12.998      | 1831          | 1837        | 1842         | rBV      | 1751039        | 2196153       | 98.48%          | 9.415%        |
| 29        | 13.233      | 1873          | 1877        | 1882         | rBV2     | 27301          | 44397         | 1.99%           | 0.190%        |
| 30        | 13.445      | 1910          | 1913        | 1917         | rBV3     | 19311          | 26032         | 1.17%           | 0.112%        |
| 31        | 13.574      | 1931          | 1935        | 1938         | rVB      | 28802          | 35508         | 1.59%           | 0.152%        |
| 32        | 13.863      | 1978          | 1984        | 1988         | rBV      | 348868         | 470015        | 21.08%          | 2.015%        |
| 33        | 13.904      | 1988          | 1991        | 1993         | rBV2     | 38953          | 47731         | 2.14%           | 0.205%        |
| 34        | 14.057      | 2011          | 2017        | 2027         | rVB      | 1594045        | 2230137       | 100.00%         | 9.561%        |
| 35        | 14.192      | 2036          | 2040        | 2043         | rBV      | 184253         | 246767        | 11.07%          | 1.058%        |
| 36        | 14.227      | 2043          | 2046        | 2050         | rVV      | 325458         | 456639        | 20.48%          | 1.958%        |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF092525\  
Data File : BF143816.D  
Acq On : 25 Sep 2025 21:21  
Operator : RC/JU  
Sample : Q3178-01  
Misc :  
ALS Vial : 15 Sample Multiplier: 2

Instrument :  
BNA\_F  
ClientSampleId :  
EME-TS14-01

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF092325.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 37 | 14.280 | 2053 | 2055 | 2063 | rVB  | 120253  | 144584  | 6.48%  | 0.620% |
| 38 | 14.521 | 2093 | 2096 | 2100 | rBV  | 65175   | 86678   | 3.89%  | 0.372% |
| 39 | 14.574 | 2101 | 2105 | 2111 | rVV2 | 69781   | 115644  | 5.19%  | 0.496% |
| 40 | 14.815 | 2142 | 2146 | 2158 | rBV3 | 122636  | 271061  | 12.15% | 1.162% |
| 41 | 14.915 | 2159 | 2163 | 2170 | rVB2 | 58793   | 92882   | 4.16%  | 0.398% |
| 42 | 15.098 | 2190 | 2194 | 2203 | rBV  | 67903   | 152322  | 6.83%  | 0.653% |
| 43 | 15.180 | 2204 | 2208 | 2216 | rVB  | 106193  | 162319  | 7.28%  | 0.696% |
| 44 | 15.533 | 2262 | 2268 | 2281 | rVB  | 1313291 | 2163449 | 97.01% | 9.275% |
| 45 | 16.015 | 2346 | 2350 | 2356 | rVB  | 42132   | 68197   | 3.06%  | 0.292% |
| 46 | 16.462 | 2421 | 2426 | 2434 | rBV3 | 105168  | 209229  | 9.38%  | 0.897% |
| 47 | 17.204 | 2548 | 2552 | 2559 | rVB3 | 47583   | 92645   | 4.15%  | 0.397% |
| 48 | 17.686 | 2628 | 2634 | 2638 | rBV6 | 60009   | 158080  | 7.09%  | 0.678% |

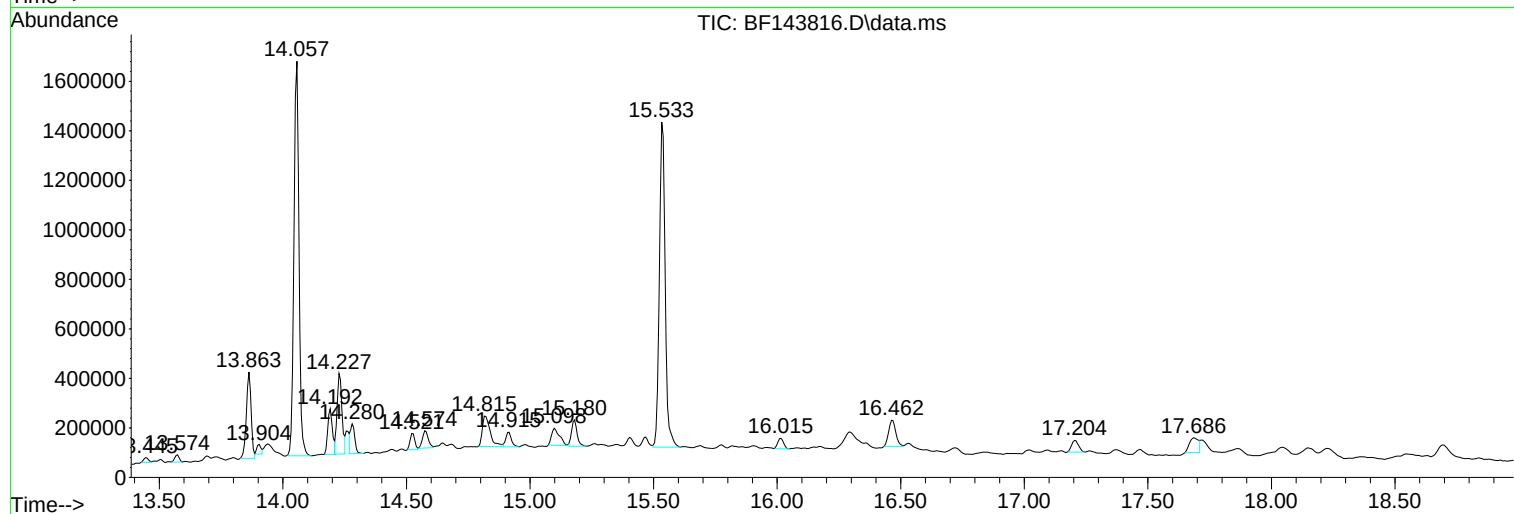
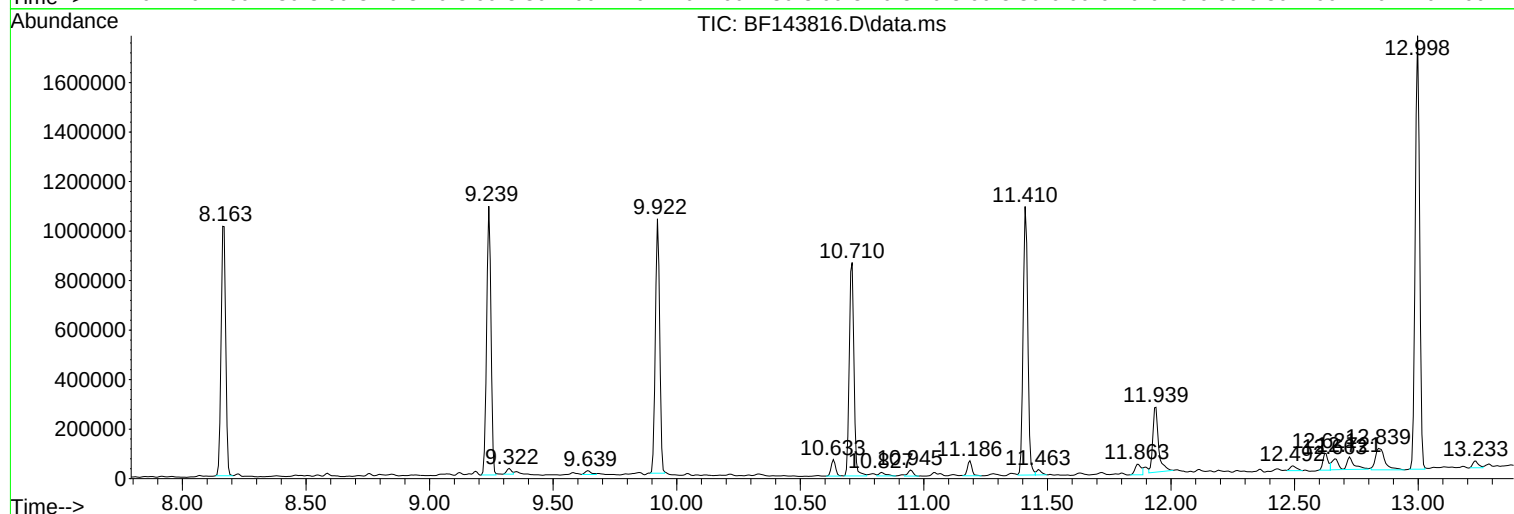
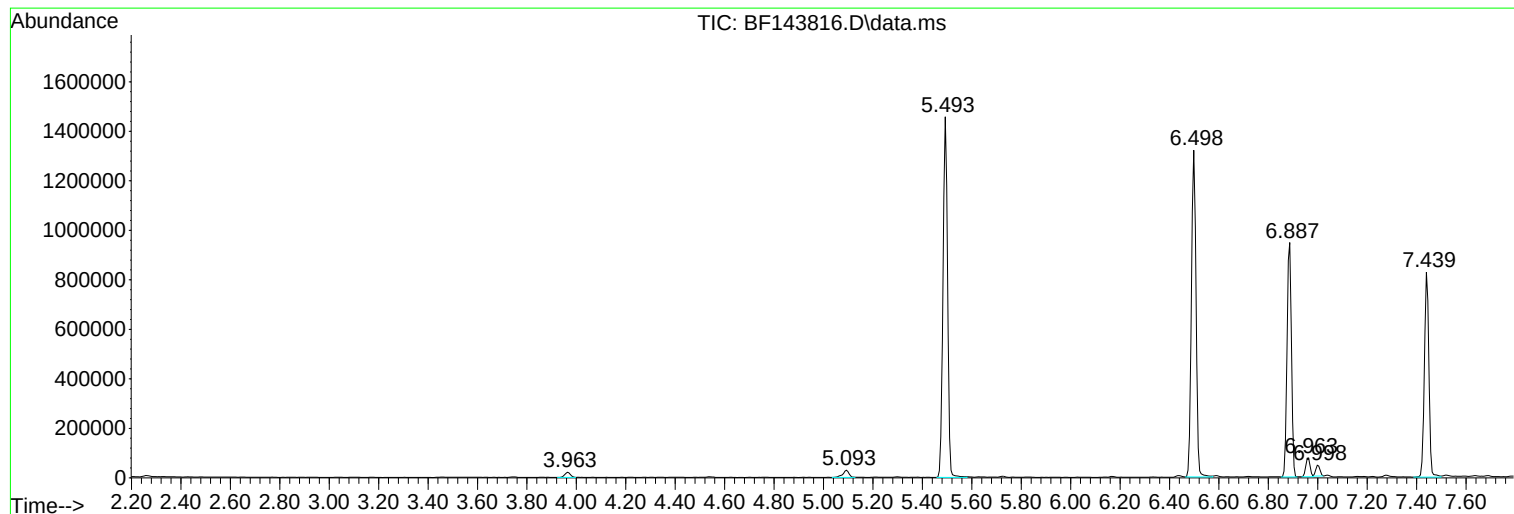
Sum of corrected areas: 23326091

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF092525\  
Data File : BF143816.D  
Acq On : 25 Sep 2025 21:21  
Operator : RC/JU  
Sample : Q3178-01  
Misc :  
ALS Vial : 15 Sample Multiplier: 2

Instrument :  
BNA\_F  
ClientSampleId :  
EME-TS14-01

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF092325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF092525\  
Data File : BF143816.D  
Acq On : 25 Sep 2025 21:21  
Operator : RC/JU  
Sample : Q3178-01  
Misc :  
ALS Vial : 15 Sample Multiplier: 2

Instrument :  
BNA\_F  
ClientSampleId :  
EME-TS14-01

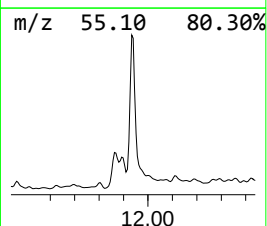
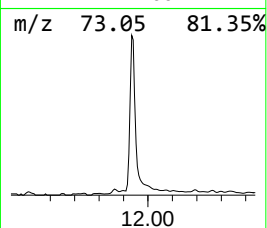
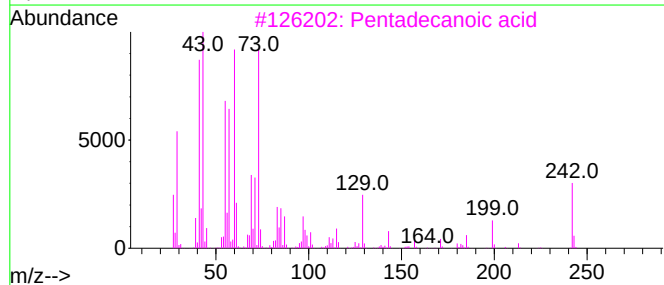
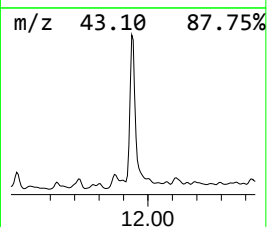
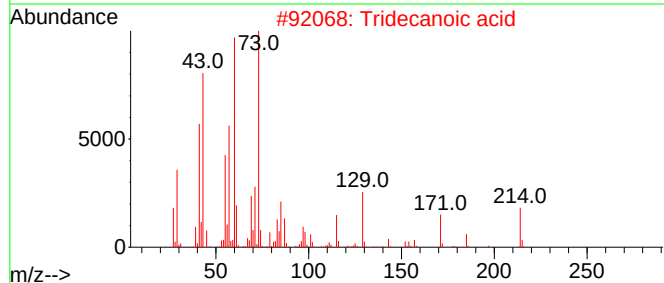
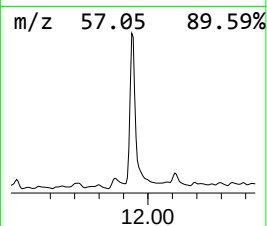
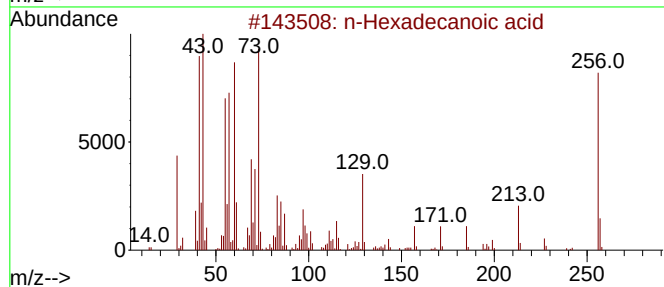
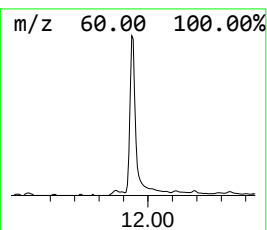
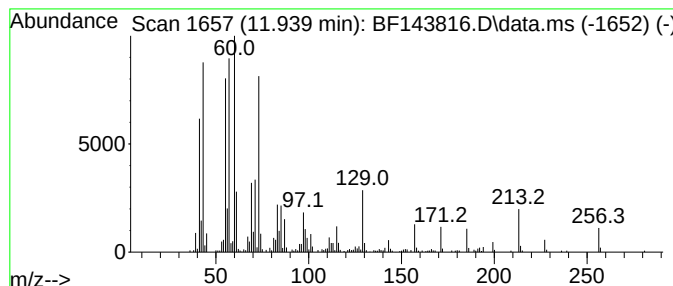
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 1 n-Hexadecanoic acid Concentration Rank 1

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 11.939 | 6.05 ng | 426031 | Phenanthrene-d10 | 11.410 |

| Hit# | of | 5 | Tentative ID        | MW  | MolForm  | CAS#        | Qual |
|------|----|---|---------------------|-----|----------|-------------|------|
| 1    |    |   | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 99   |
| 2    |    |   | Tridecanoic acid    | 214 | C13H26O2 | 000638-53-9 | 64   |
| 3    |    |   | Pentadecanoic acid  | 242 | C15H30O2 | 001002-84-2 | 64   |
| 4    |    |   | Dodecanoic acid     | 200 | C12H24O2 | 000143-07-7 | 53   |
| 5    |    |   | Octanoic acid       | 144 | C8H16O2  | 000124-07-2 | 53   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF092525\  
Data File : BF143816.D  
Acq On : 25 Sep 2025 21:21  
Operator : RC/JU  
Sample : Q3178-01  
Misc :  
ALS Vial : 15 Sample Multiplier: 2

Instrument :  
BNA\_F  
ClientSampleId :  
EME-TS14-01

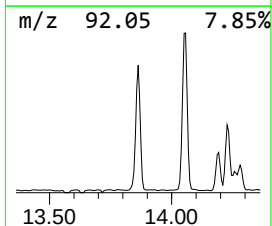
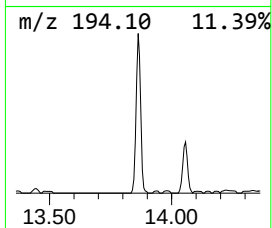
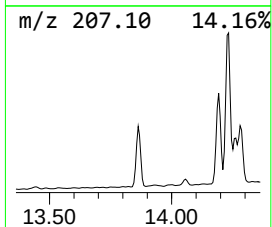
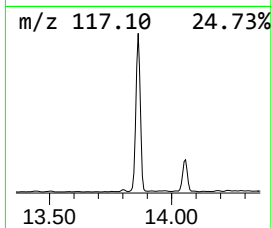
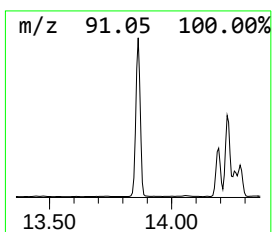
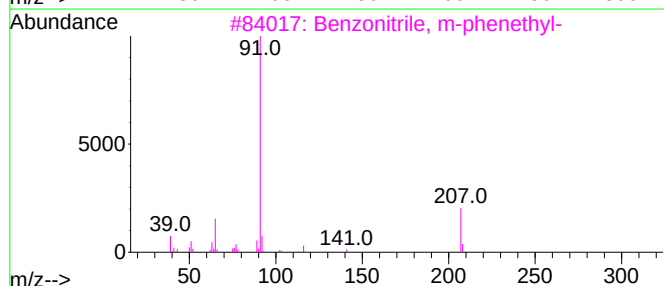
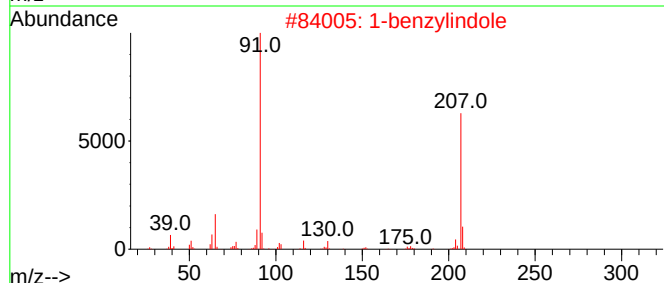
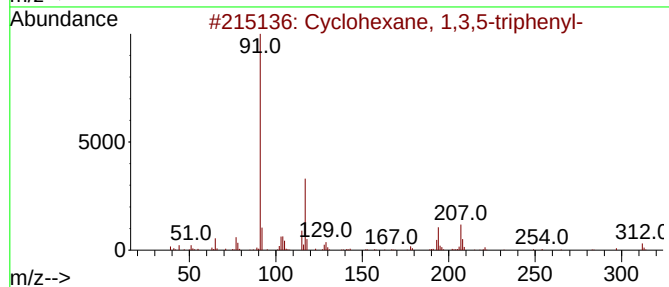
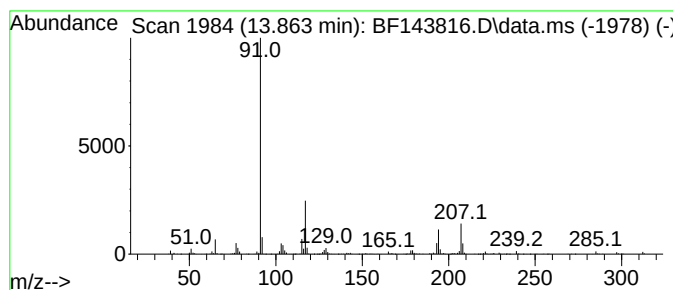
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF092325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 Cyclohexane, 1,3,5-triphenyl- Concentration Rank 2

| R.T.      | EstConc                             | Area   | Relative to ISTD | R.T.         |      |
|-----------|-------------------------------------|--------|------------------|--------------|------|
| 13.863    | 4.22 ng                             | 470015 | Chrysene-d12     | 14.057       |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#         | Qual |
| 1         | Cyclohexane, 1,3,5-triphenyl-       | 312    | C24H24           | 028336-57-4  | 86   |
| 2         | 1-benzylindole                      | 207    | C15H13N          | 1000334-31-3 | 25   |
| 3         | Benzonitrile, m-phenethyl-          | 207    | C15H13N          | 034176-91-5  | 16   |
| 4         | (R)-(1-Cyclopentylpropane-1,3-di... | 264    | C20H24           | 1402851-74-4 | 16   |
| 5         | Salicylic acid, trimethylsilyl e... | 300    | C17H20O3Si       | 1000463-82-7 | 14   |





Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF092525\  
Data File : BF143816.D  
Acq On : 25 Sep 2025 21:21  
Operator : RC/JU  
Sample : Q3178-01  
Misc :  
ALS Vial : 15 Sample Multiplier: 2

Instrument :  
BNA\_F  
ClientSampleId :  
EME-TS14-01

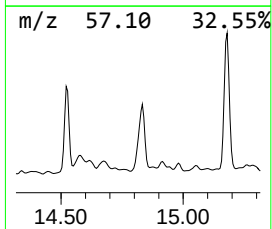
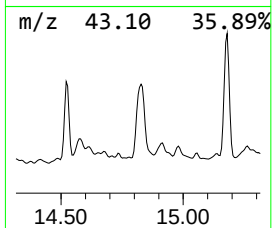
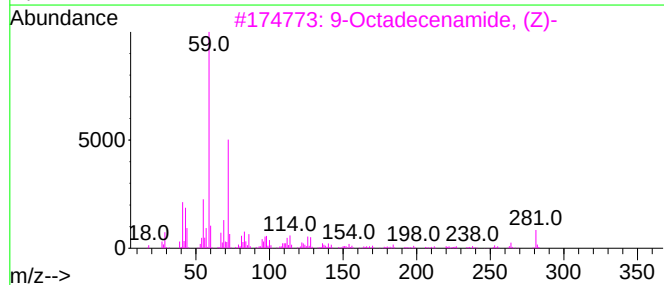
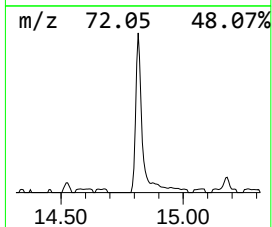
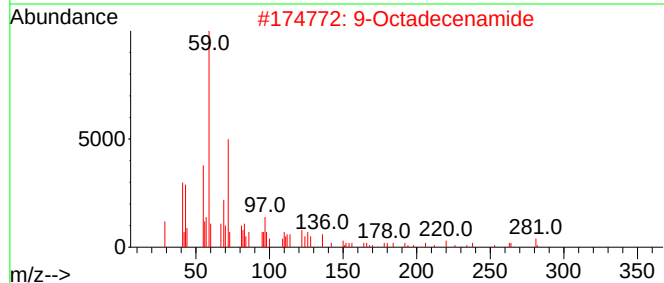
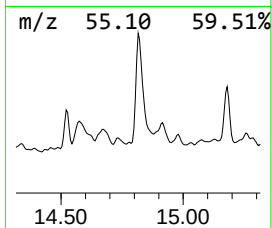
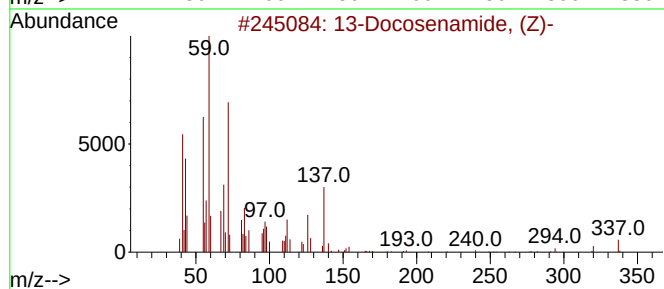
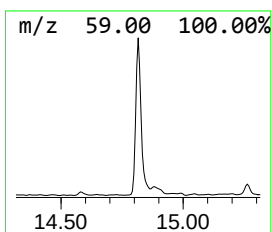
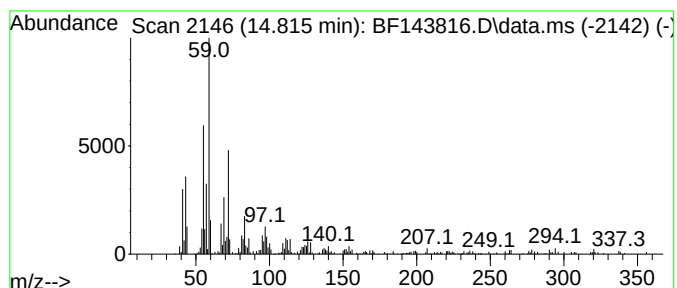
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF092325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 6 13-Docosenamide, (Z)- Concentration Rank 4

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 14.815 | 2.51 ng | 271061 | Perylene-d12     | 15.533 |

| Hit# | of 5 | Tentative ID           | MW  | MolForm  | CAS#        | Qual |
|------|------|------------------------|-----|----------|-------------|------|
| 1    |      | 13-Docosenamide, (Z)-  | 337 | C22H43NO | 000112-84-5 | 91   |
| 2    |      | 9-Octadecenamide       | 281 | C18H35NO | 003322-62-1 | 78   |
| 3    |      | 9-Octadecenamide, (Z)- | 281 | C18H35NO | 000301-02-0 | 72   |
| 4    |      | Octadecanamide         | 283 | C18H37NO | 000124-26-5 | 72   |
| 5    |      | Dodecanamide           | 199 | C12H25NO | 001120-16-7 | 70   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF092525\  
Data File : BF143816.D  
Acq On : 25 Sep 2025 21:21  
Operator : RC/JU  
Sample : Q3178-01  
Misc :  
ALS Vial : 15 Sample Multiplier: 2

Instrument :  
BNA\_F  
ClientSampleId :  
EME-TS14-01

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF092325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

| TIC Top Hit name   | RT     | EstConc | Units | Response | --Internal Standard-- |        |         |      |
|--------------------|--------|---------|-------|----------|-----------------------|--------|---------|------|
|                    |        |         |       |          | #                     | RT     | Resp    | Conc |
| n-Hexadecanoic ... | 11.939 | 6.0     | ng    | 426031   | 4                     | 11.410 | 1407430 | 20.0 |
| Cyclohexane, 1,... | 13.863 | 4.2     | ng    | 470015   | 5                     | 14.057 | 2230140 | 20.0 |
| 13-Docosenamide... | 14.815 | 2.5     | ng    | 271061   | 6                     | 15.533 | 2163450 | 20.0 |



# CALIBRATION SUMMARY

6C

## SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: AllianceContract: ROYF02Lab Code: ACESDG No.: Q3178Instrument ID: BNA\_FCalibration Date(s): 09/23/2025 09/23/2025Calibration Time(s): 10:28 15:27

| LAB FILE ID:                |        | RRF2.5 = BF143791.D |        | RRF005 = BF143792.D |        | RRF010 = BF143793.D |       |       |
|-----------------------------|--------|---------------------|--------|---------------------|--------|---------------------|-------|-------|
|                             |        | RRF020 = BF143794.D |        | RRF040 = BF143795.D |        | RRF050 = BF143796.D |       |       |
| COMPOUND                    | RRF2.5 | RRF005              | RRF010 | RRF020              | RRF040 | RRF050              | RRF   | % RSD |
| 2-Fluorophenol              |        |                     | 1.258  | 1.326               | 1.329  | 1.156               | 1.231 | 7.1   |
| Benzaldehyde                |        |                     | 1.066  | 0.952               | 1.467  | 1.327               | 1.246 | 18.8  |
| Phenol-d6                   |        |                     | 1.507  | 1.530               | 1.523  | 1.336               | 1.422 | 7.9   |
| Phenol                      |        | 1.762               | 1.708  | 1.737               | 1.748  | 1.534               | 1.653 | 7.1   |
| bis(2-Chloroethyl)ether     |        | 1.387               | 1.321  | 1.347               | 1.367  | 1.223               | 1.296 | 6.5   |
| 2-Chlorophenol              |        | 1.304               | 1.254  | 1.329               | 1.335  | 1.209               | 1.260 | 5.5   |
| 2-Methylphenol              |        | 1.033               | 0.992  | 1.009               | 1.021  | 0.938               | 0.976 | 5.5   |
| 2,2-oxybis(1-Chloropropane) |        | 3.320               | 3.136  | 3.224               | 3.231  | 2.896               | 3.073 | 6.9   |
| Acetophenone                |        | 0.500               | 0.466  | 0.468               | 0.463  | 0.401               | 0.439 | 10.5  |
| 3+4-Methylphenols           |        |                     | 1.278  | 1.256               | 1.271  | 1.137               | 1.185 | 8.6   |
| n-Nitroso-di-n-propylamine  | 1.078  | 0.991               | 0.932  | 0.926               | 0.914  | 0.842               | 0.915 | 10.3  |
| Nitrobenzene-d5             |        |                     | 0.309  | 0.339               | 0.353  | 0.322               | 0.327 | 5.4   |
| Hexachloroethane            |        | 0.555               | 0.512  | 0.543               | 0.543  | 0.482               | 0.514 | 6.6   |
| Nitrobenzene                |        | 0.362               | 0.354  | 0.369               | 0.389  | 0.357               | 0.362 | 4.0   |
| Isophorone                  |        | 0.667               | 0.636  | 0.649               | 0.673  | 0.624               | 0.637 | 5.1   |
| 2-Nitrophenol               |        | 0.089               | 0.104  | 0.125               | 0.148  | 0.150               | 0.132 | 20.1  |
| 2,4-Dimethylphenol          |        | 0.292               | 0.280  | 0.291               | 0.303  | 0.280               | 0.285 | 4.6   |
| bis(2-Chloroethoxy)methane  |        | 0.455               | 0.430  | 0.430               | 0.437  | 0.393               | 0.414 | 8.0   |
| 2,4-Dichlorophenol          |        | 0.277               | 0.286  | 0.288               | 0.298  | 0.273               | 0.280 | 4.4   |
| Naphthalene                 |        | 1.058               | 1.021  | 1.020               | 1.003  | 0.887               | 0.957 | 9.3   |
| 4-Chloroaniline             |        | 0.360               | 0.347  | 0.353               | 0.355  | 0.323               | 0.336 | 7.0   |
| Hexachlorobutadiene         |        | 0.227               | 0.219  | 0.223               | 0.233  | 0.206               | 0.217 | 5.6   |
| Caprolactam                 |        |                     | 0.066  | 0.069               | 0.075  | 0.074               | 0.072 | 5.5   |
| 4-Chloro-3-methylphenol     |        | 0.271               | 0.260  | 0.271               | 0.276  | 0.261               | 0.263 | 4.8   |
| 2-Methylnaphthalene         |        | 0.685               | 0.650  | 0.643               | 0.635  | 0.568               | 0.611 | 9.5   |
| Hexachlorocyclopentadiene   |        |                     | 0.336  | 0.371               | 0.418  | 0.382               | 0.383 | 7.3   |
| 2,4,6-Trichlorophenol       |        | 0.344               | 0.358  | 0.386               | 0.422  | 0.379               | 0.378 | 6.7   |
| 2-Fluorobiphenyl            |        |                     | 1.476  | 1.460               | 1.351  | 1.154               | 1.282 | 13.1  |
| 2,4,5-Trichlorophenol       |        | 0.371               | 0.391  | 0.419               | 0.423  | 0.380               | 0.395 | 5.1   |
| 1,1-Biphenyl                |        | 1.608               | 1.541  | 1.564               | 1.495  | 1.331               | 1.448 | 9.4   |
| 2-Chloronaphthalene         |        | 1.283               | 1.223  | 1.243               | 1.215  | 1.077               | 1.165 | 8.4   |
| 2-Nitroaniline              |        | 0.241               | 0.305  | 0.355               | 0.400  | 0.380               | 0.352 | 16.8  |
| Dimethylphthalate           |        | 1.275               | 1.233  | 1.252               | 1.286  | 1.173               | 1.219 | 4.9   |
| Acenaphthylene              |        | 1.729               | 1.659  | 1.700               | 1.691  | 1.499               | 1.604 | 7.3   |

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1



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Fax : 908 789 8922

6C

## SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: AllianceContract: ROYF02Lab Code: ACESDG No.: Q3178Instrument ID: BNA\_FCalibration Date(s): 09/23/2025 09/23/2025Calibration Time(s): 10:28 15:27

|                              |        |                     |        |        |                     |        |                     |       |
|------------------------------|--------|---------------------|--------|--------|---------------------|--------|---------------------|-------|
| LAB FILE ID:                 |        | RRF2.5 = BF143791.D |        |        | RRF005 = BF143792.D |        | RRF010 = BF143793.D |       |
|                              |        | RRF020 = BF143794.D |        |        | RRF040 = BF143795.D |        | RRF050 = BF143796.D |       |
| COMPOUND                     | RRF2.5 | RRF005              | RRF010 | RRF020 | RRF040              | RRF050 | RRF                 | % RSD |
| 2,6-Dinitrotoluene           |        | 0.138               | 0.161  | 0.198  | 0.228               | 0.224  | 0.200               | 18.4  |
| 3-Nitroaniline               |        | 0.171               | 0.210  | 0.245  | 0.283               | 0.259  | 0.243               | 16.1  |
| Acenaphthene                 |        | 1.134               | 1.121  | 1.123  | 1.109               | 0.974  | 1.056               | 7.9   |
| 2,4-Dinitrophenol            |        |                     | 0.052  | 0.040  | 0.063               | 0.066  | 0.064               | 25.2  |
| 4-Nitrophenol                |        |                     | 0.197  | 0.169  | 0.208               | 0.193  | 0.196               | 7.4   |
| Dibenzofuran                 |        | 1.649               | 1.551  | 1.590  | 1.561               | 1.377  | 1.493               | 8.3   |
| 2,4-Dinitrotoluene           |        | 0.151               | 0.210  | 0.254  | 0.307               | 0.295  | 0.261               | 23.2  |
| Diethylphthalate             |        | 1.158               | 1.170  | 1.174  | 1.211               | 1.100  | 1.141               | 4.4   |
| 4-Chlorophenyl-phenylether   |        | 0.621               | 0.592  | 0.601  | 0.590               | 0.528  | 0.566               | 8.1   |
| Fluorene                     |        | 1.275               | 1.210  | 1.190  | 1.147               | 1.005  | 1.110               | 11.3  |
| 4-Nitroaniline               |        | 0.162               | 0.204  | 0.228  | 0.264               | 0.242  | 0.228               | 15.3  |
| 4,6-Dinitro-2-methylphenol   |        |                     | 0.045  | 0.047  | 0.070               | 0.074  | 0.067               | 26.0  |
| n-Nitrosodiphenylamine       |        | 0.707               | 0.675  | 0.688  | 0.682               | 0.621  | 0.658               | 6.3   |
| 2,4,6-Tribromophenol         |        |                     | 0.303  | 0.324  | 0.328               | 0.281  | 0.296               | 8.8   |
| 4-Bromophenyl-phenylether    |        | 0.344               | 0.333  | 0.349  | 0.361               | 0.334  | 0.341               | 3.5   |
| Hexachlorobenzene            |        | 0.492               | 0.470  | 0.488  | 0.492               | 0.447  | 0.470               | 4.8   |
| Atrazine                     |        | 0.178               | 0.191  | 0.198  | 0.211               | 0.186  | 0.190               | 5.6   |
| Pentachlorophenol            |        |                     | 0.180  | 0.216  | 0.256               | 0.239  | 0.234               | 13.2  |
| Phenanthrene                 |        | 1.145               | 1.066  | 1.071  | 1.082               | 0.948  | 1.027               | 8.3   |
| Anthracene                   |        | 1.096               | 1.069  | 1.088  | 1.083               | 0.965  | 1.030               | 6.7   |
| Carbazole                    |        | 0.916               | 0.931  | 0.949  | 0.976               | 0.839  | 0.901               | 6.2   |
| Di-n-butylphthalate          |        | 0.940               | 1.008  | 1.075  | 1.157               | 1.019  | 1.036               | 6.5   |
| Fluoranthene                 |        | 1.019               | 1.046  | 1.099  | 1.144               | 0.953  | 1.033               | 6.8   |
| Pyrene                       |        | 1.038               | 0.982  | 0.991  | 1.005               | 0.990  | 0.983               | 5.5   |
| Terphenyl-d14                |        |                     | 1.044  | 1.013  | 1.022               | 0.981  | 0.983               | 7.0   |
| Butylbenzylphthalate         |        | 0.251               | 0.298  | 0.335  | 0.391               | 0.367  | 0.340               | 14.7  |
| 3,3-Dichlorobenzidine        |        |                     | 0.426  | 0.465  | 0.497               | 0.459  | 0.465               | 5.1   |
| Benzo (a) anthracene         |        | 1.109               | 1.081  | 1.083  | 1.148               | 1.040  | 1.074               | 4.6   |
| Chrysene                     |        | 1.041               | 0.985  | 0.996  | 1.018               | 0.909  | 0.972               | 5.2   |
| Bis (2-ethylhexyl) phthalate |        | 0.428               | 0.477  | 0.514  | 0.558               | 0.505  | 0.499               | 8.0   |
| Di-n-octyl phthalate         |        |                     | 0.767  | 0.877  | 1.013               | 0.902  | 0.905               | 9.0   |
| Benzo (b) fluoranthene       |        | 0.987               | 1.004  | 1.029  | 1.104               | 1.002  | 1.019               | 3.9   |
| Benzo (k) fluoranthene       |        | 1.061               | 1.004  | 1.080  | 1.089               | 0.996  | 1.023               | 6.2   |
| Benzo (a) pyrene             |        | 0.928               | 0.920  | 0.989  | 1.027               | 0.949  | 0.957               | 4.2   |
| Indeno (1,2,3-cd) pyrene     |        | 1.483               | 1.426  | 1.580  | 1.608               | 1.509  | 1.517               | 4.3   |

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1



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Fax : 908 789 8922

6C

## SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: AllianceContract: ROYF02Lab Code: ACESDG No.: Q3178Instrument ID: BNA\_FCalibration Date(s): 09/23/2025 09/23/2025Calibration Time(s): 10:28 15:27

|                            |        |                     |        |                     |        |                     |       |       |
|----------------------------|--------|---------------------|--------|---------------------|--------|---------------------|-------|-------|
| LAB FILE ID:               |        | RRF2.5 = BF143791.D |        | RRF005 = BF143792.D |        | RRF010 = BF143793.D |       |       |
|                            |        | RRF020 = BF143794.D |        | RRF040 = BF143795.D |        | RRF050 = BF143796.D |       |       |
| COMPOUND                   | RRF2.5 | RRF005              | RRF010 | RRF020              | RRF040 | RRF050              | RRF   | % RSD |
| Dibenzo (a,h) anthracene   |        | 1.207               | 1.187  | 1.302               | 1.332  | 1.237               | 1.241 | 4.9   |
| Benzo (g,h,i) perylene     |        | 1.134               | 1.116  | 1.234               | 1.279  | 1.200               | 1.196 | 5.0   |
| 1,2,4,5-Tetrachlorobenzene |        | 0.657               | 0.634  | 0.636               | 0.628  | 0.559               | 0.604 | 7.4   |
| 1,4-Dioxane                |        | 0.594               | 0.575  | 0.598               | 0.640  | 0.558               | 0.589 | 4.4   |
| 2,3,4,6-Tetrachlorophenol  |        | 0.272               | 0.309  | 0.349               | 0.373  | 0.355               | 0.339 | 10.5  |

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1

Method Path : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\  
 Method File : 8270-BF092325.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 Last Update : Wed Sep 24 05:00:00 2025  
 Response Via : Initial Calibration

## Calibration Files

2.5 =BF143791.D 5 =BF143792.D 10 =BF143793.D 20 =BF143794.D 40 =BF143795.D 50 =BF143796.D 60 =BF143797.D 80 =BF143798.D

|       | Compound              | 2.5            | 5     | 10    | 20    | 40    | 50    | 60    | 80    | Avg   | %RSD  |
|-------|-----------------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1) I  | 1,4-Dichlorobenzen... | -----ISTD----- |       |       |       |       |       |       |       |       |       |
| 2)    | 1,4-Dioxane           | 0.594          | 0.575 | 0.598 | 0.640 | 0.558 | 0.582 | 0.577 | 0.589 | 4.40  |       |
| 3)    | Pyridine              | 1.585          | 1.522 | 1.624 | 1.724 | 1.535 | 1.603 | 1.541 | 1.590 | 4.40  |       |
| 4)    | n-Nitrosodimet...     |                | 0.744 | 0.812 | 0.851 | 0.775 | 0.818 | 0.785 | 0.797 | 4.71  |       |
| 5) S  | 2-Fluorophenol        |                | 1.258 | 1.326 | 1.329 | 1.156 | 1.193 | 1.124 | 1.231 | 7.08  |       |
| 6)    | Aniline               | 2.283          | 2.120 | 2.158 | 2.145 | 1.940 | 1.978 | 1.826 | 2.064 | 7.55  |       |
| 7) S  | Phenol-d6             |                | 1.507 | 1.530 | 1.523 | 1.336 | 1.371 | 1.267 | 1.422 | 7.90  |       |
| 8)    | 2-Chlorophenol        | 1.304          | 1.254 | 1.329 | 1.335 | 1.209 | 1.244 | 1.146 | 1.260 | 5.45  |       |
| 9)    | Benzaldehyde          |                | 1.066 | 0.952 | 1.467 | 1.327 | 1.538 | 1.123 | 1.246 | 18.81 |       |
| 10) C | Phenol                | 1.762          | 1.708 | 1.737 | 1.748 | 1.534 | 1.622 | 1.463 | 1.653 | 7.07  |       |
| 11)   | bis(2-Chloroet...     | 1.387          | 1.321 | 1.347 | 1.367 | 1.223 | 1.270 | 1.156 | 1.296 | 6.47  |       |
| 12)   | 1,3-Dichlorobe...     | 1.622          | 1.493 | 1.556 | 1.544 | 1.345 | 1.385 | 1.297 | 1.463 | 8.34  |       |
| 13) C | 1,4-Dichlorobe...     | 1.634          | 1.496 | 1.549 | 1.537 | 1.339 | 1.380 | 1.287 | 1.460 | 8.68  |       |
| 14)   | 1,2-Dichlorobe...     | 1.558          | 1.407 | 1.465 | 1.449 | 1.277 | 1.309 | 1.215 | 1.383 | 8.73  |       |
| 15)   | Benzyl Alcohol        |                | 1.022 | 1.074 | 1.088 | 1.004 | 1.042 | 0.936 | 1.028 | 5.32  |       |
| 16)   | 2,2'-oxybis(1-...     | 3.320          | 3.136 | 3.224 | 3.231 | 2.896 | 2.966 | 2.738 | 3.073 | 6.87  |       |
| 17)   | 2-Methylphenol        | 1.033          | 0.990 | 1.009 | 1.021 | 0.938 | 0.959 | 0.880 | 0.976 | 5.52  |       |
| 18)   | Hexachloroethane      | 0.555          | 0.512 | 0.543 | 0.543 | 0.482 | 0.493 | 0.468 | 0.514 | 6.60  |       |
| 19) P | n-Nitroso-di-n...     | 1.078          | 0.991 | 0.932 | 0.926 | 0.914 | 0.842 | 0.869 | 0.764 | 0.915 | 10.34 |
| 20)   | 3+4-Methylphenols     |                | 1.292 | 1.256 | 1.274 | 1.137 | 1.147 | 1.023 | 1.188 | 8.78  |       |
| 21) I | Naphthalene-d8        | -----ISTD----- |       |       |       |       |       |       |       |       |       |
| 22)   | Acetophenone          | 0.500          | 0.466 | 0.468 | 0.463 | 0.401 | 0.404 | 0.373 | 0.439 | 10.54 |       |
| 23) S | Nitrobenzene-d5       |                | 0.309 | 0.339 | 0.353 | 0.322 | 0.330 | 0.308 | 0.327 | 5.40  |       |
| 24)   | Nitrobenzene          | 0.362          | 0.354 | 0.369 | 0.389 | 0.357 | 0.361 | 0.342 | 0.362 | 3.96  |       |
| 25)   | Isophorone            | 0.667          | 0.636 | 0.649 | 0.673 | 0.624 | 0.634 | 0.575 | 0.637 | 5.11  |       |
| 26) C | 2-Nitrophenol         | 0.089          | 0.104 | 0.125 | 0.148 | 0.150 | 0.156 | 0.150 | 0.132 | 20.10 |       |
| 27)   | 2,4-Dimethylph...     | 0.292          | 0.280 | 0.291 | 0.303 | 0.280 | 0.286 | 0.261 | 0.285 | 4.65  |       |
| 28)   | bis(2-Chloroet...     | 0.455          | 0.430 | 0.430 | 0.437 | 0.393 | 0.392 | 0.360 | 0.414 | 8.03  |       |
| 29) C | 2,4-Dichloroph...     | 0.277          | 0.286 | 0.288 | 0.298 | 0.273 | 0.278 | 0.260 | 0.280 | 4.37  |       |
| 30)   | 1,2,4-Trichlor...     | 0.314          | 0.288 | 0.304 | 0.309 | 0.275 | 0.279 | 0.264 | 0.291 | 6.52  |       |
| 31)   | Naphthalene           | 1.058          | 1.021 | 1.020 | 1.003 | 0.887 | 0.888 | 0.826 | 0.957 | 9.26  |       |
| 32)   | Benzoic acid          |                | 0.124 | 0.091 | 0.140 | 0.148 | 0.159 | 0.161 | 0.137 | 19.26 |       |
| 33)   | 4-Chloroaniline       | 0.360          | 0.347 | 0.353 | 0.355 | 0.323 | 0.323 | 0.295 | 0.336 | 7.04  |       |
| 34) C | Hexachlorobuta...     | 0.227          | 0.219 | 0.223 | 0.233 | 0.206 | 0.210 | 0.199 | 0.217 | 5.64  |       |
| 35)   | Caprolactam           |                | 0.066 | 0.069 | 0.075 | 0.074 | 0.076 | 0.070 | 0.072 | 5.47  |       |
| 36) C | 4-Chloro-3-met...     | 0.271          | 0.260 | 0.271 | 0.276 | 0.261 | 0.262 | 0.238 | 0.263 | 4.81  |       |
| 37)   | 2-Methylnaphth...     | 0.685          | 0.650 | 0.643 | 0.635 | 0.568 | 0.572 | 0.521 | 0.611 | 9.49  |       |
| 38)   | 1-Methylnaphth...     | 0.656          | 0.618 | 0.610 | 0.612 | 0.550 | 0.550 | 0.496 | 0.584 | 9.36  |       |

Method Path : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\  
 Method File : 8270-BF092325.M

|       |                    |                |       |       |       |       |       |       |       |       |       |
|-------|--------------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 39) I | Acenaphthene-d10   | -----ISTD----- |       |       |       |       |       |       |       |       |       |
| 40)   | 1,2,4,5-Tetrac...  |                | 0.657 | 0.634 | 0.636 | 0.628 | 0.559 | 0.562 | 0.549 | 0.604 | 7.43  |
| 41) P | Hexachlorocycl...  |                |       | 0.336 | 0.371 | 0.418 | 0.382 | 0.401 | 0.387 | 0.383 | 7.32  |
| 42) S | 2,4,6-Tribromo...  |                |       | 0.303 | 0.324 | 0.328 | 0.281 | 0.275 | 0.266 | 0.296 | 8.83  |
| 43) C | 2,4,6-Trichlor...  |                | 0.344 | 0.358 | 0.386 | 0.422 | 0.379 | 0.392 | 0.365 | 0.378 | 6.71  |
| 44)   | 2,4,5-Trichlor...  |                | 0.371 | 0.391 | 0.419 | 0.423 | 0.380 | 0.402 | 0.381 | 0.395 | 5.09  |
| 45) S | 2-Fluorobiphenyl   |                |       | 1.476 | 1.460 | 1.351 | 1.154 | 1.153 | 1.096 | 1.282 | 13.12 |
| 46)   | 1,1'-Biphenyl      |                | 1.608 | 1.541 | 1.564 | 1.495 | 1.331 | 1.326 | 1.269 | 1.448 | 9.37  |
| 47)   | 2-Chloronaphth...  |                | 1.283 | 1.223 | 1.243 | 1.215 | 1.077 | 1.080 | 1.036 | 1.165 | 8.38  |
| 48)   | 2-Nitroaniline     |                | 0.241 | 0.305 | 0.355 | 0.400 | 0.380 | 0.400 | 0.386 | 0.352 | 16.77 |
| 49)   | Acenaphthylene     |                | 1.729 | 1.659 | 1.700 | 1.691 | 1.499 | 1.513 | 1.440 | 1.604 | 7.27  |
| 50)   | Dimethylphthalate  |                | 1.275 | 1.233 | 1.252 | 1.286 | 1.173 | 1.191 | 1.122 | 1.219 | 4.87  |
| 51)   | 2,6-Dinitrotol...  |                | 0.138 | 0.161 | 0.198 | 0.228 | 0.224 | 0.231 | 0.221 | 0.200 | 18.41 |
| 52) C | Acenaphthene       |                | 1.134 | 1.121 | 1.123 | 1.109 | 0.974 | 0.976 | 0.953 | 1.056 | 7.87  |
| 53)   | 3-Nitroaniline     |                | 0.171 | 0.210 | 0.245 | 0.283 | 0.259 | 0.267 | 0.264 | 0.243 | 16.09 |
| 54) P | 2,4-Dinitrophenol  |                |       | 0.052 | 0.040 | 0.063 | 0.066 | 0.076 | 0.084 | 0.064 | 25.20 |
| 55)   | Dibenzofuran       |                | 1.649 | 1.551 | 1.590 | 1.561 | 1.377 | 1.392 | 1.329 | 1.493 | 8.32  |
| 56) P | 4-Nitrophenol      |                |       | 0.197 | 0.169 | 0.208 | 0.193 | 0.197 | 0.210 | 0.196 | 7.39  |
| 57)   | 2,4-Dinitrotol...  |                | 0.151 | 0.210 | 0.254 | 0.307 | 0.295 | 0.308 | 0.300 | 0.261 | 23.18 |
| 58)   | Fluorene           |                | 1.275 | 1.210 | 1.190 | 1.147 | 1.005 | 0.986 | 0.956 | 1.110 | 11.33 |
| 59)   | 2,3,4,6-Tetrac...  |                | 0.272 | 0.309 | 0.349 | 0.373 | 0.355 | 0.361 | 0.352 | 0.339 | 10.45 |
| 60)   | Diethylphthalate   |                | 1.158 | 1.170 | 1.174 | 1.211 | 1.100 | 1.109 | 1.066 | 1.141 | 4.44  |
| 61)   | 4-Chlorophenyl...  |                | 0.621 | 0.592 | 0.601 | 0.590 | 0.528 | 0.524 | 0.504 | 0.566 | 8.09  |
| 62)   | 4-Nitroaniline     |                | 0.162 | 0.204 | 0.228 | 0.264 | 0.242 | 0.243 | 0.255 | 0.228 | 15.32 |
| 63)   | Azobenzene         |                | 1.260 | 1.221 | 1.246 | 1.279 | 1.148 | 1.163 | 1.101 | 1.203 | 5.49  |
| 64) I | Phenanthrene-d10   | -----ISTD----- |       |       |       |       |       |       |       |       |       |
| 65)   | 4,6-Dinitro-2-...  |                |       | 0.045 | 0.047 | 0.070 | 0.074 | 0.083 | 0.084 | 0.067 | 25.99 |
| 66) c | n-Nitrosodiphe...  |                | 0.707 | 0.675 | 0.688 | 0.682 | 0.621 | 0.637 | 0.594 | 0.658 | 6.27  |
| 67)   | 4-Bromophenyl-...  |                | 0.344 | 0.333 | 0.349 | 0.361 | 0.334 | 0.342 | 0.324 | 0.341 | 3.52  |
| 68)   | Hexachlorobenzene  |                | 0.492 | 0.470 | 0.488 | 0.492 | 0.447 | 0.461 | 0.437 | 0.470 | 4.80  |
| 69)   | Atrazine           |                | 0.178 | 0.191 | 0.198 | 0.211 | 0.186 | 0.187 | 0.183 | 0.190 | 5.63  |
| 70) C | Pentachlorophenol  |                |       | 0.180 | 0.216 | 0.256 | 0.239 | 0.254 | 0.259 | 0.234 | 13.17 |
| 71)   | Phenanthrene       |                | 1.145 | 1.066 | 1.071 | 1.082 | 0.948 | 0.954 | 0.921 | 1.027 | 8.27  |
| 72)   | Anthracene         |                | 1.096 | 1.069 | 1.088 | 1.083 | 0.965 | 0.963 | 0.945 | 1.030 | 6.65  |
| 73)   | Carbazole          |                | 0.916 | 0.931 | 0.949 | 0.976 | 0.839 | 0.846 | 0.847 | 0.901 | 6.23  |
| 74)   | Di-n-butylphth...  |                | 0.940 | 1.008 | 1.075 | 1.157 | 1.019 | 1.019 | 1.031 | 1.036 | 6.45  |
| 75) C | Fluoranthene       |                | 1.019 | 1.046 | 1.099 | 1.144 | 0.953 | 0.956 | 1.012 | 1.033 | 6.83  |
| 76) I | Chrysene-d12       | -----ISTD----- |       |       |       |       |       |       |       |       |       |
| 77)   | Benzidine          |                |       | 0.438 | 0.444 | 0.511 | 0.571 | 0.553 | 0.407 | 0.487 | 13.78 |
| 78)   | Pyrene             |                | 1.038 | 0.982 | 0.991 | 1.005 | 0.990 | 1.011 | 0.867 | 0.983 | 5.54  |
| 79) S | Terphenyl-d14      |                |       | 1.044 | 1.013 | 1.022 | 0.981 | 0.989 | 0.852 | 0.983 | 6.95  |
| 80)   | Butylbenzylphth... |                | 0.251 | 0.298 | 0.335 | 0.391 | 0.367 | 0.381 | 0.358 | 0.340 | 14.74 |
| 81)   | Benzo(a)anthra...  |                | 1.109 | 1.081 | 1.083 | 1.148 | 1.040 | 1.065 | 0.995 | 1.074 | 4.55  |
| 82)   | 3,3'-Dichlorob...  |                |       | 0.426 | 0.465 | 0.497 | 0.459 | 0.480 | 0.466 | 0.465 | 5.06  |
| 83)   | Chrysene           |                | 1.041 | 0.985 | 0.996 | 1.018 | 0.909 | 0.941 | 0.916 | 0.972 | 5.25  |
| 84)   | Bis(2-ethylhex...  |                | 0.428 | 0.477 | 0.514 | 0.558 | 0.505 | 0.516 | 0.492 | 0.499 | 8.01  |
| 85) c | Di-n-octyl pht...  |                |       | 0.767 | 0.877 | 1.013 | 0.902 | 0.937 | 0.930 | 0.905 | 9.00  |

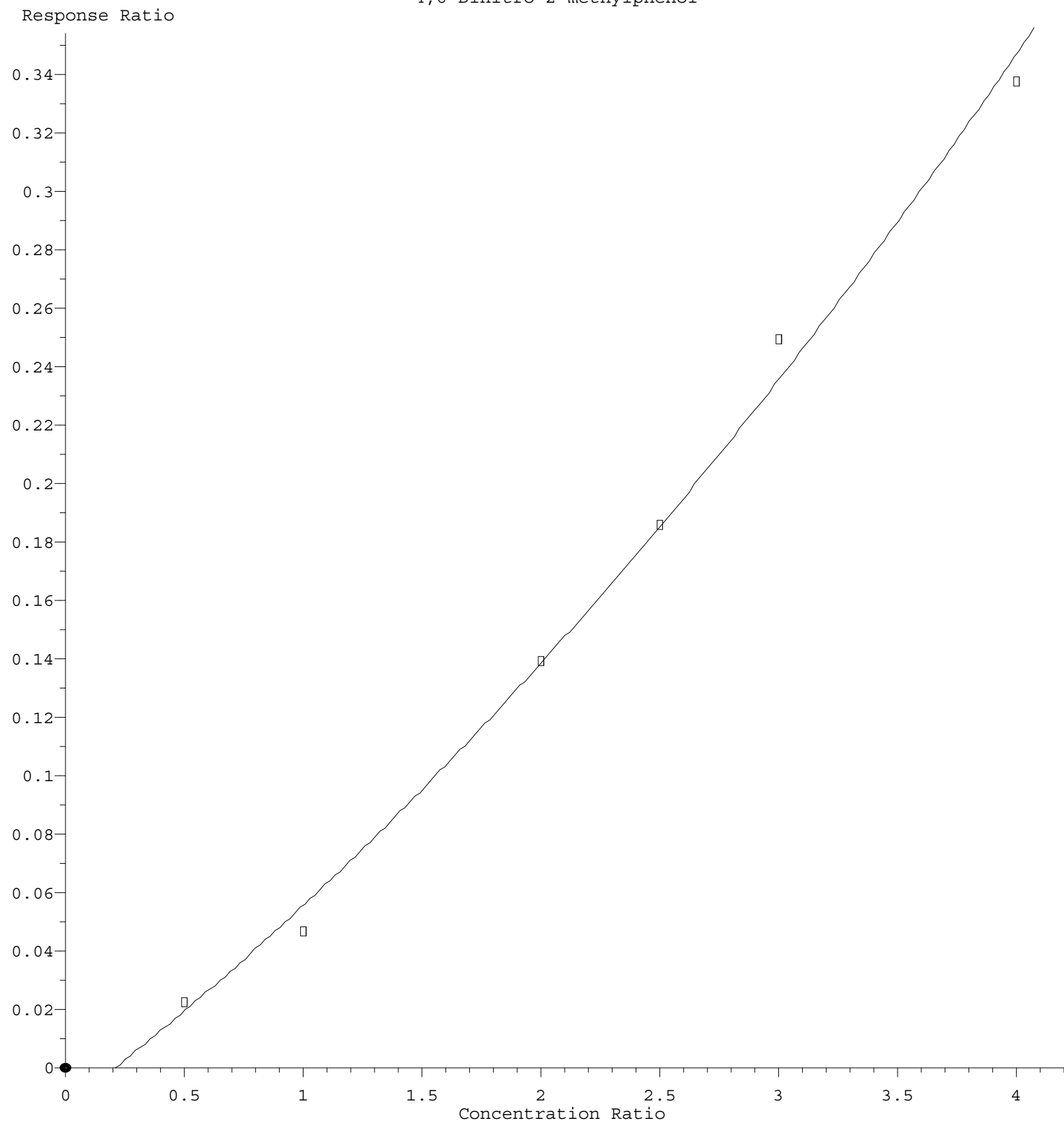


Method Path : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\  
Method File : 8270-BF092325.M

|       |                   |                |       |       |       |       |       |       |       |      |
|-------|-------------------|----------------|-------|-------|-------|-------|-------|-------|-------|------|
| 86) I | Perylene-d12      | -----ISTD----- |       |       |       |       |       |       |       |      |
| 87)   | Indeno(1,2,3-c... | 1.483          | 1.426 | 1.580 | 1.608 | 1.509 | 1.548 | 1.468 | 1.517 | 4.26 |
| 88)   | Benzo(b)fluora... | 0.987          | 1.004 | 1.029 | 1.104 | 1.002 | 1.002 | 1.000 | 1.018 | 3.91 |
| 89)   | Benzo(k)fluora... | 1.061          | 1.004 | 1.079 | 1.089 | 0.996 | 1.029 | 0.905 | 1.023 | 6.18 |
| 90) C | Benzo(a)pyrene    | 0.928          | 0.920 | 0.989 | 1.027 | 0.949 | 0.971 | 0.918 | 0.957 | 4.25 |
| 91)   | Dibenzo(a,h)an... | 1.207          | 1.187 | 1.302 | 1.332 | 1.237 | 1.257 | 1.166 | 1.241 | 4.87 |
| 92)   | Benzo(g,h,i)pe... | 1.134          | 1.116 | 1.234 | 1.279 | 1.200 | 1.244 | 1.168 | 1.196 | 5.01 |

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

## 4,6-Dinitro-2-methylphenol



$$R = 7.095e-003 A^2 + 6.161e-002 A - 1.313e-002$$

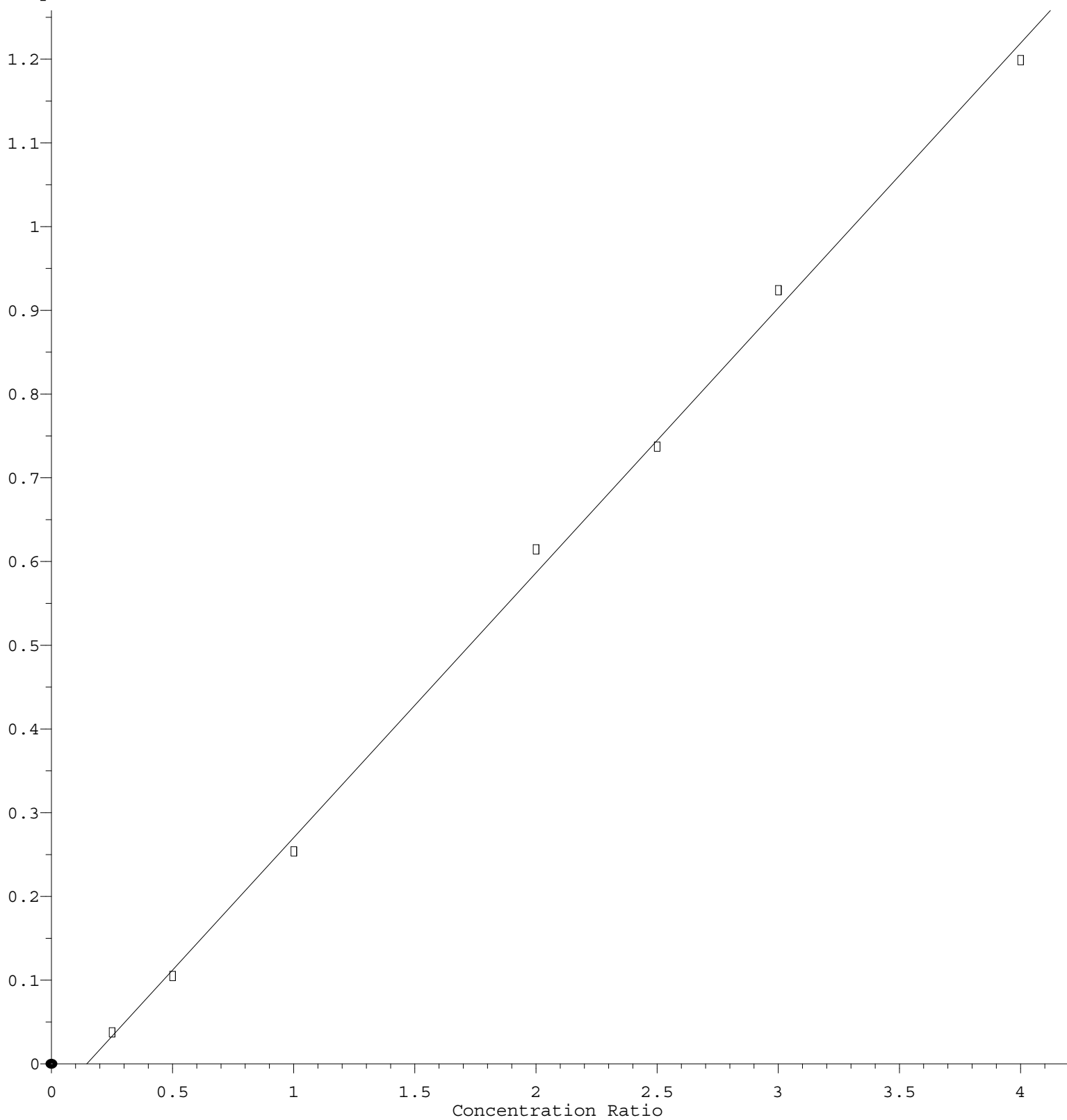
Coef of Det ( $r^2$ ) = 0.995418 Curve Fit: Quadratic w(1/a)

Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF092325.M

Calibration Table Last Updated: Wed Sep 24 05:00:00 2025

# 2,4-Dinitrotoluene

Response Ratio



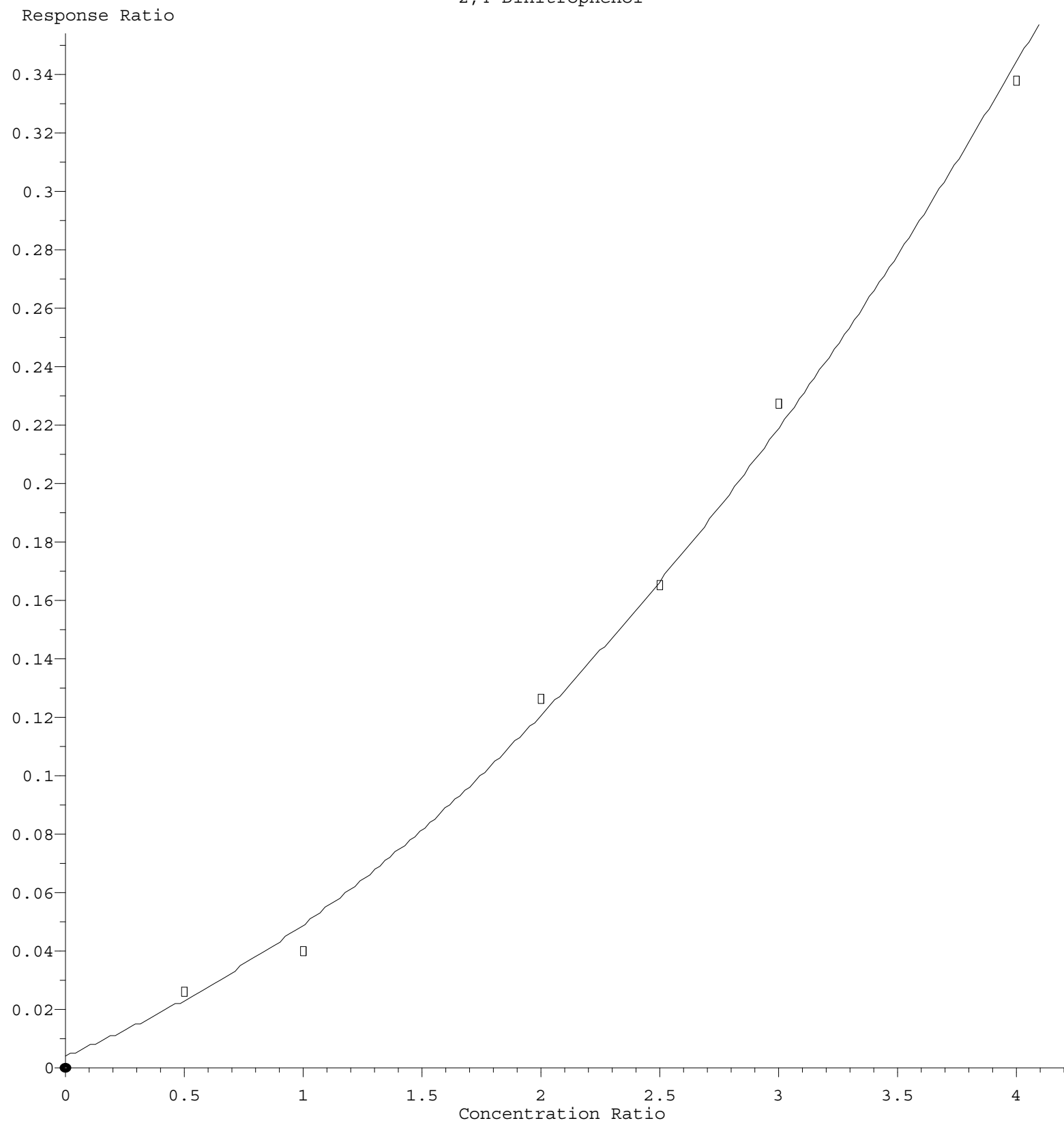
$$\text{Response} = 3.165\text{e-}001 * \text{Amt} - 4.621\text{e-}002$$

Coef of Det ( $r^2$ ) = 0.998498 Curve Fit: wlr(1/a)

Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF092325.M

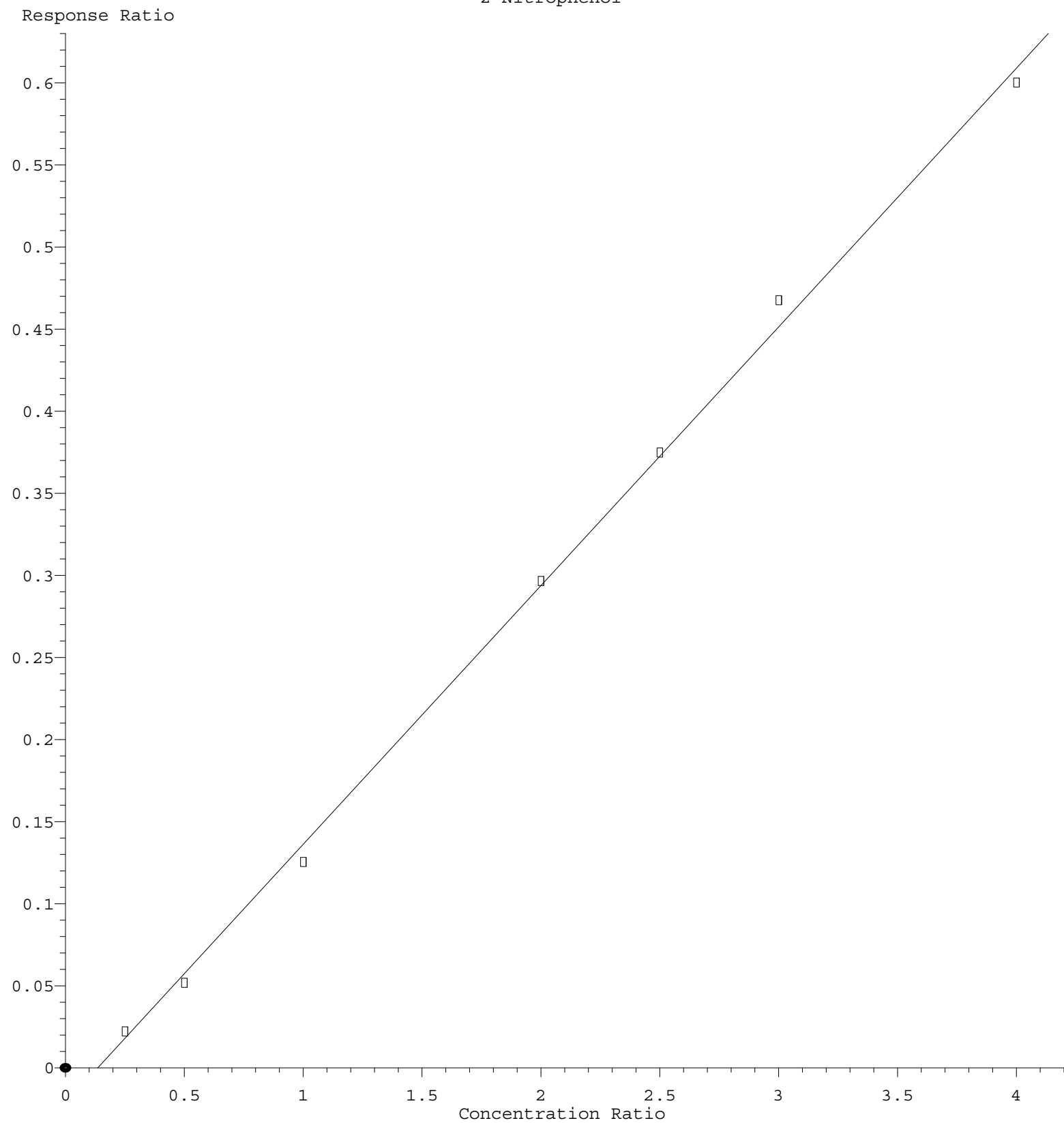
Calibration Table Last Updated: Wed Sep 24 05:00:00 2025

# 2,4-Dinitrophenol



$R = 1.334e-002 A^2 + 3.164e-002 A + 4.049e-003$   
 Coef of Det ( $r^2$ ) = 0.995804    Curve Fit: Quadratic w(1/a)  
 Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF092325.M  
 Calibration Table Last Updated: Wed Sep 24 05:00:00 2025

# 2-Nitrophenol



$\text{Response} = 1.576\text{e-}001 * \text{Amt} - 2.138\text{e-}002$   
 Coef of Det ( $r^2$ ) = 0.998054    Curve Fit: wlr(1/a)  
 Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF092325.M  
 Calibration Table Last Updated: Wed Sep 24 05:00:00 2025

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF092325\  
Data File : BF143791.D  
Acq On : 23 Sep 2025 10:28  
Operator : RC/JU  
Sample : SSTDICC2.5  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC2.5

Quant Time: Sep 23 17:06:01 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF092325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Sep 23 16:31:21 2025  
Response via : Initial Calibration

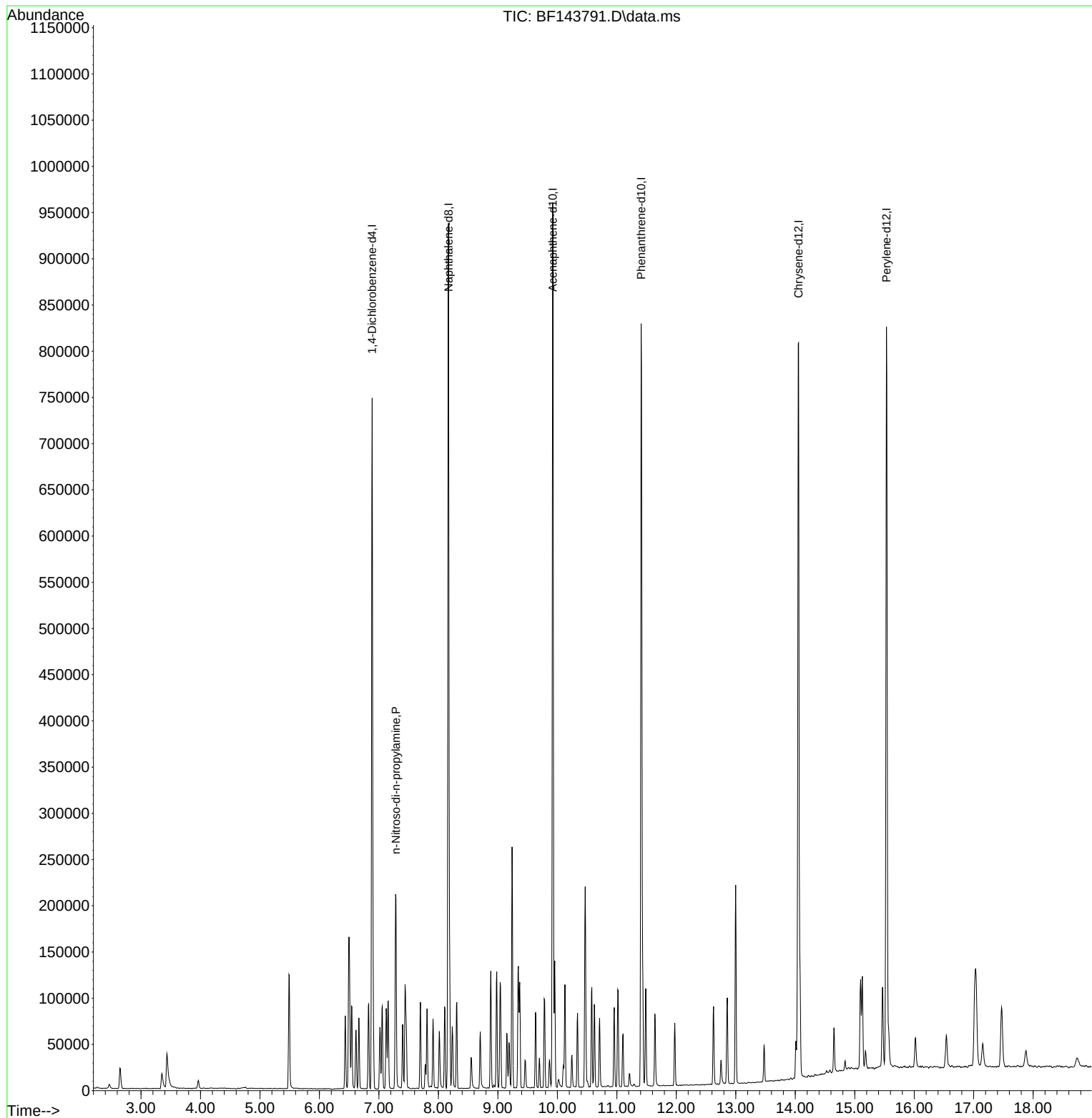
| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min)     |
|-------------------------------|--------|------|----------|--------|-------|--------------|
| Internal Standards            |        |      |          |        |       |              |
| 1) 1,4-Dichlorobenzene-d4     | 6.886  | 152  | 142727   | 20.000 | ng    | 0.00         |
| 21) Naphthalene-d8            | 8.169  | 136  | 546391   | 20.000 | ng    | 0.00         |
| 39) Acenaphthene-d10          | 9.922  | 164  | 280335   | 20.000 | ng    | 0.00         |
| 64) Phenanthrene-d10          | 11.410 | 188  | 422227   | 20.000 | ng    | 0.00         |
| 76) Chrysene-d12              | 14.057 | 240  | 419162   | 20.000 | ng    | 0.00         |
| 86) Perylene-d12              | 15.533 | 264  | 547725   | 20.000 | ng    | 0.00         |
| System Monitoring Compounds   |        |      |          |        |       |              |
| 5) 2-Fluorophenol             | 0.000  | 112  | 0d       | 0.000  | ng    |              |
| 7) Phenol-d6                  | 0.000  | 99   | 0d       | 0.000  | ng    |              |
| 23) Nitrobenzene-d5           | 0.000  | 82   | 0d       | 0.000  | ng    |              |
| 42) 2,4,6-Tribromophenol      | 0.000  | 330  | 0d       | 0.000  | ng    |              |
| 45) 2-Fluorobiphenyl          | 0.000  | 172  | 0d       | 0.000  | ng    |              |
| 79) Terphenyl-d14             | 0.000  | 244  | 0d       | 0.000  | ng    |              |
| Target Compounds              |        |      |          |        |       |              |
| 19) n-Nitroso-di-n-propyla... | 7.286  | 70   | 19227    | 2.946  | ng    | Qvalue<br>96 |

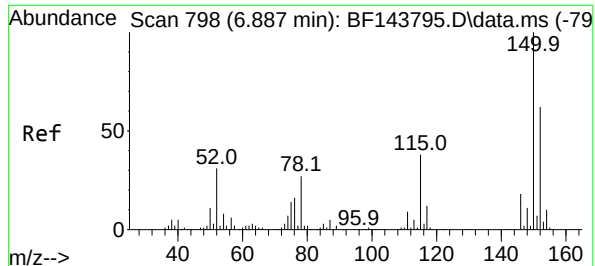
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF092325\  
Data File : BF143791.D  
Acq On : 23 Sep 2025 10:28  
Operator : RC/JU  
Sample : SSTDICC2.5  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC2.5

Quant Time: Sep 23 17:06:01 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF092325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Sep 23 16:31:21 2025  
Response via : Initial Calibration

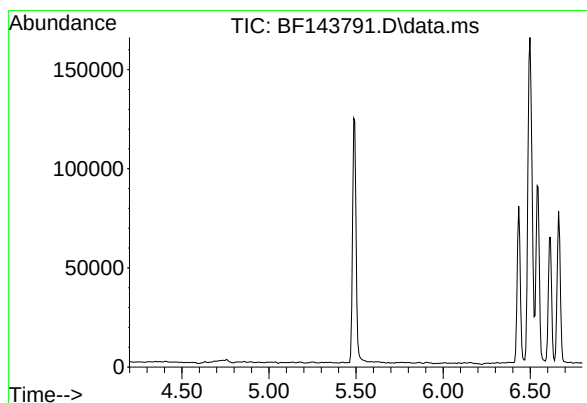
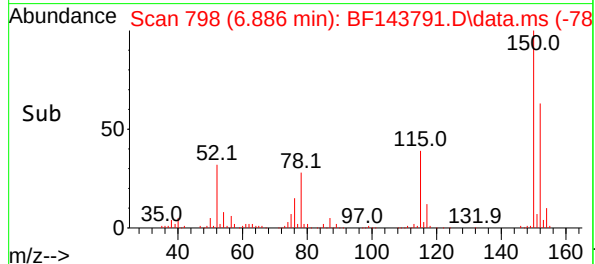
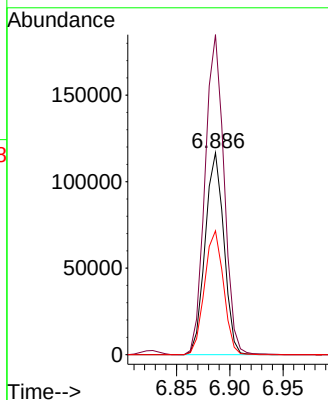
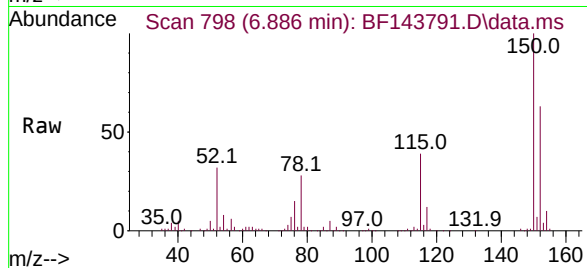




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.886 min Scan# 79  
Delta R.T. -0.001 min  
Lab File: BF143791.D  
Acq: 23 Sep 2025 10:28

Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC2.5

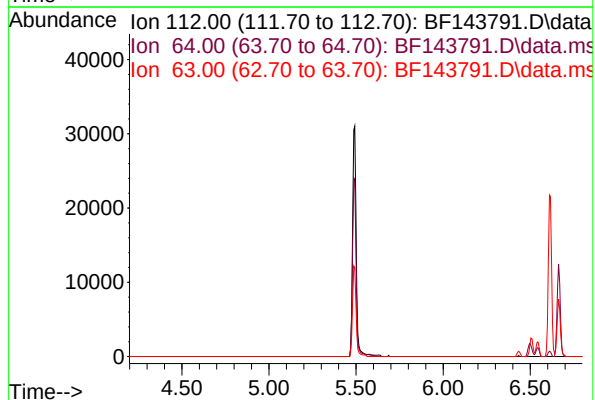
Tgt Ion:152 Resp: 142727  
Ion Ratio Lower Upper  
152 100  
150 158.5 129.6 194.4  
115 61.3 49.0 73.4



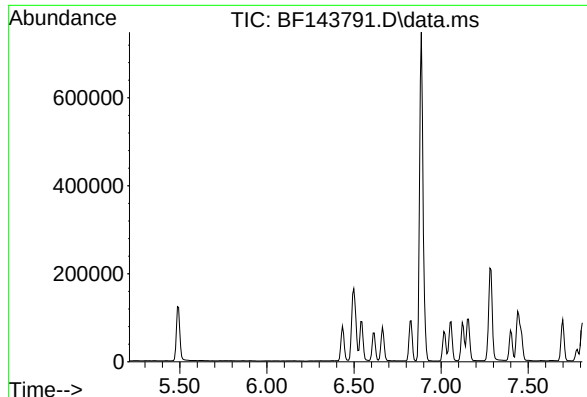
#5  
2-Fluorophenol  
Concen: 0.000 ng  
Expected RT: 5.50 min

Lab File: BF143791.D  
Acq: 23 Sep 2025 10:28

Tgt Ion: 112  
Sig Exp Ratio  
112 100  
64 78.7  
63 40.8







#7

Phenol-d6

Concen: 0.000 ng

Expected RT: 6.51 min

Lab File: BF143791.D

Acq: 23 Sep 2025 10:28

Instrument :

BNA\_F

ClientSampleId :

SSTDICC2.5

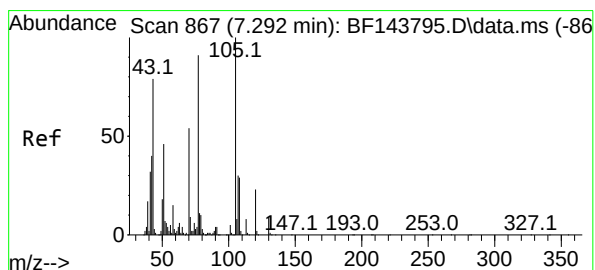
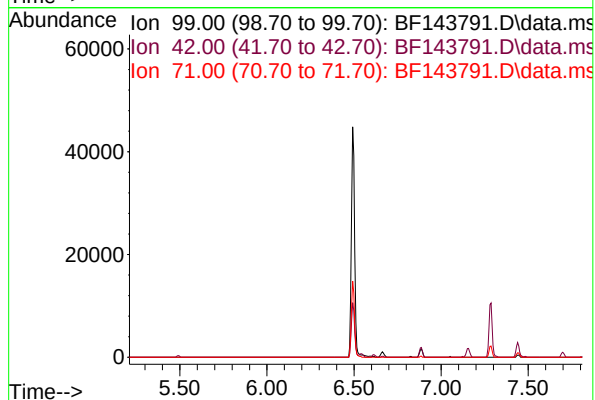
Tgt Ion: 99

Sig Exp Ratio

99 100

42 23.3

71 33.7



#19

n-Nitroso-di-n-propylamine

Concen: 2.946 ng

RT: 7.286 min Scan# 866

Delta R.T. -0.018 min

Lab File: BF143791.D

Acq: 23 Sep 2025 10:28

Tgt Ion: 70 Resp: 19227

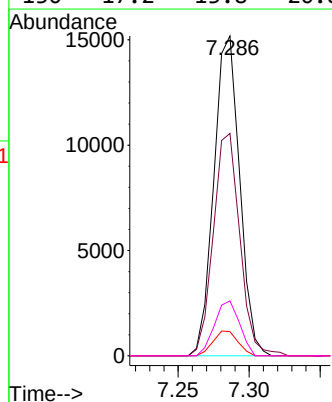
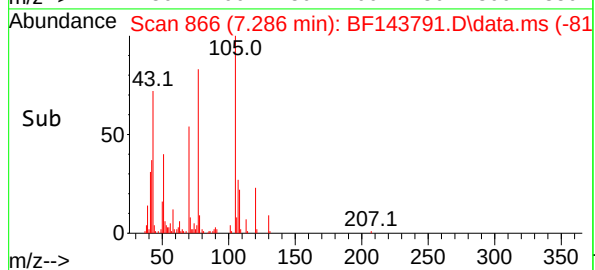
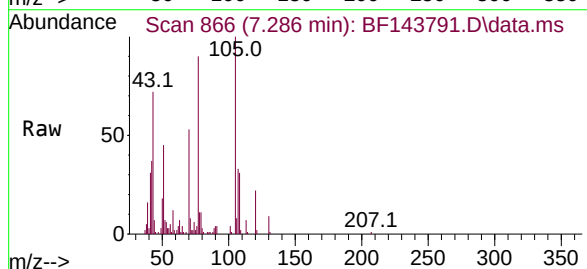
Ion Ratio Lower Upper

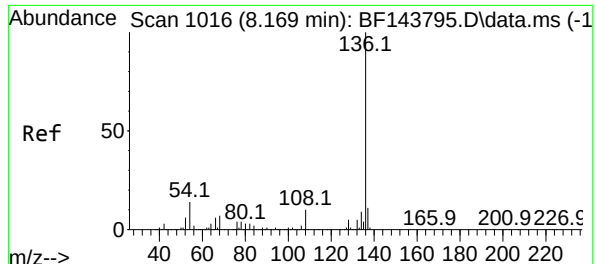
70 100

42 69.5 59.4 89.0

101 7.6 7.1 10.7

130 17.2 13.8 20.8





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.169 min Scan# 10

Delta R.T. -0.000 min

Lab File: BF143791.D

Acq: 23 Sep 2025 10:28

Instrument :

BNA\_F

ClientSampleId :

SSTDICC2.5

Tgt Ion:136 Resp: 546391

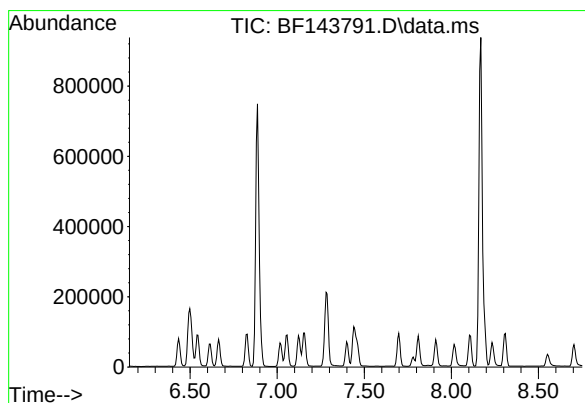
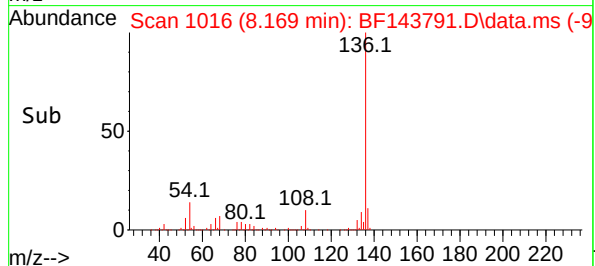
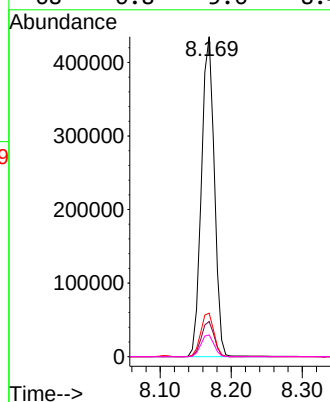
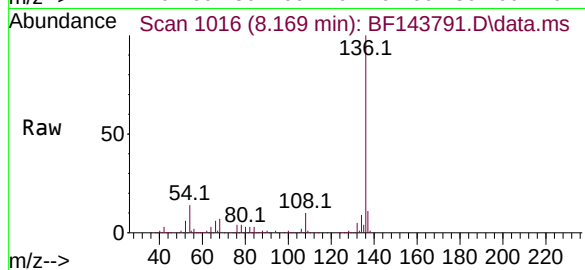
Ion Ratio Lower Upper

136 100

137 11.0 9.0 13.4

54 13.6 11.2 16.8

68 6.8 5.6 8.4



#23

Nitrobenzene-d5

Concen: 0.000 ng

Expected RT: 7.45 min

Lab File: BF143791.D

Acq: 23 Sep 2025 10:28

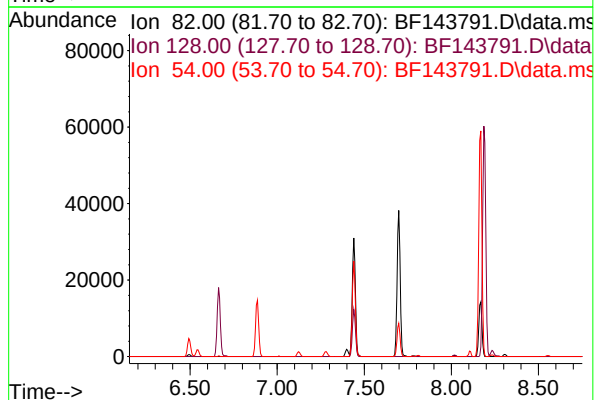
Tgt Ion: 82

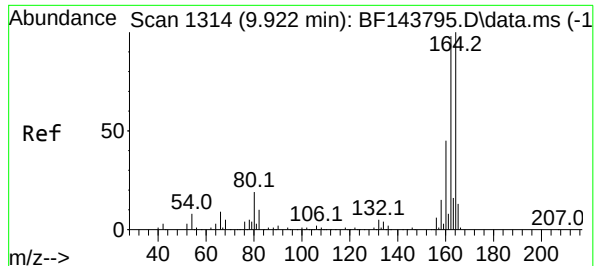
Sig Exp Ratio

82 100

128 41.6

54 80.3





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.922 min Scan# 1314

Delta R.T. -0.006 min

Lab File: BF143791.D

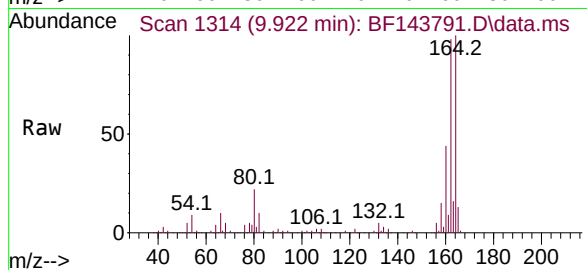
Acq: 23 Sep 2025 10:28

Instrument :

BNA\_F

ClientSampleId :

SSTDICC2.5



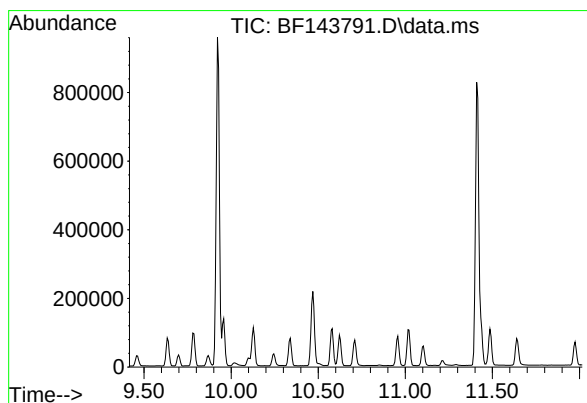
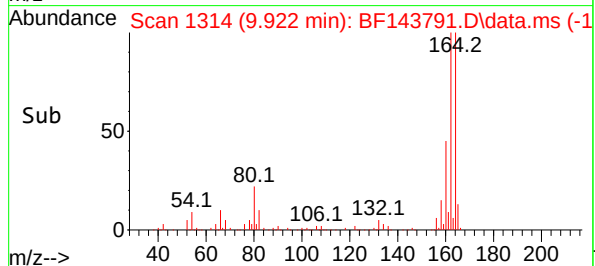
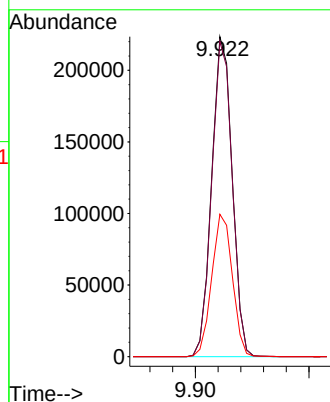
Tgt Ion:164 Resp: 280335

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

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

|     |      |      |       |
|-----|------|------|-------|
| 162 | 98.5 | 78.8 | 118.2 |
|-----|------|------|-------|

|     |      |      |      |
|-----|------|------|------|
| 160 | 44.5 | 35.8 | 53.6 |
|-----|------|------|------|



#42

2,4,6-Tribromophenol

Concen: 0.000 ng

Expected RT: 10.72 min

Lab File: BF143791.D

Acq: 23 Sep 2025 10:28

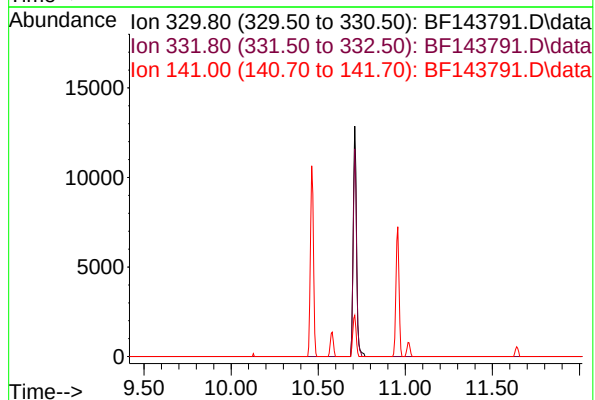
Tgt Ion: 330

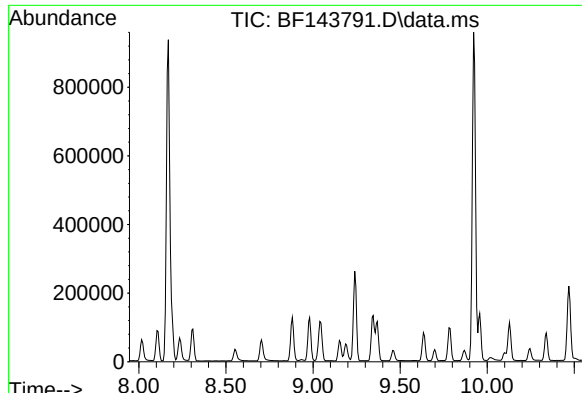
| Sig | Exp Ratio |
|-----|-----------|
|-----|-----------|

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

|     |      |
|-----|------|
| 332 | 93.4 |
|-----|------|

|     |      |
|-----|------|
| 141 | 17.9 |
|-----|------|





#45

2-Fluorobiphenyl

Concen: 0.000 ng

Expected RT: 9.25 min

Lab File: BF143791.D

Acq: 23 Sep 2025 10:28

Instrument :

BNA\_F

ClientSampleId :

SSTDICC2.5

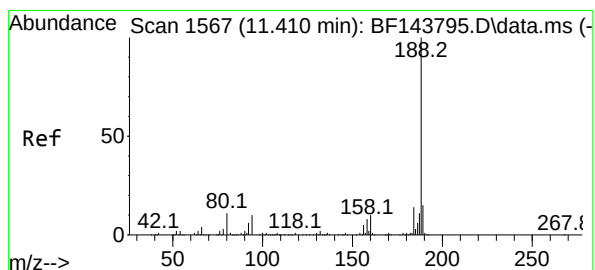
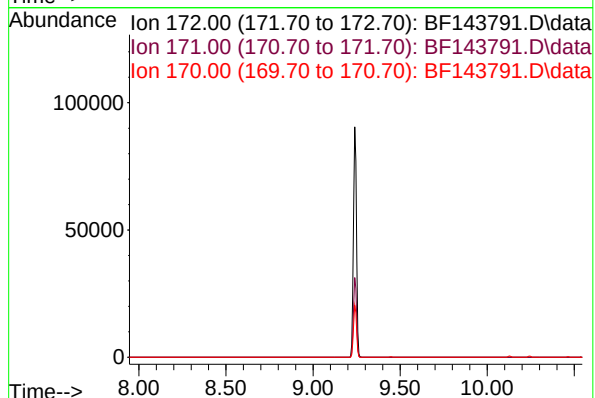
Tgt Ion: 172

Sig Exp Ratio

172 100

171 34.9

170 23.9



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.410 min Scan# 1567

Delta R.T. -0.006 min

Lab File: BF143791.D

Acq: 23 Sep 2025 10:28

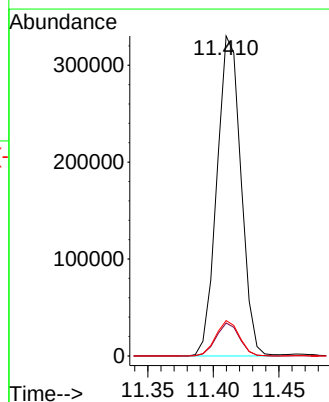
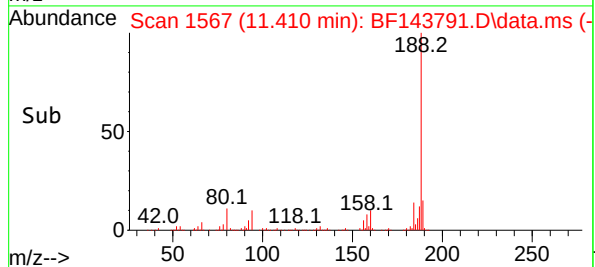
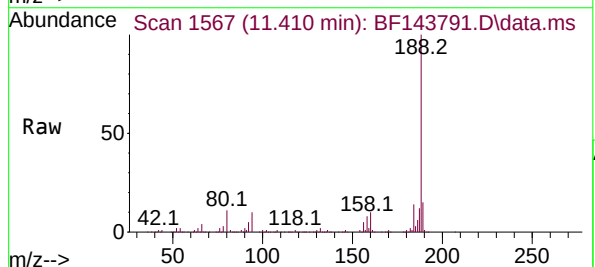
Tgt Ion:188 Resp: 422227

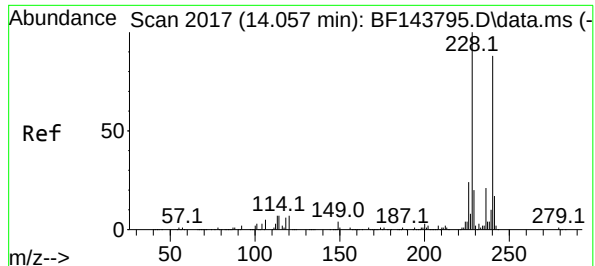
Ion Ratio Lower Upper

188 100

94 10.3 8.2 12.2

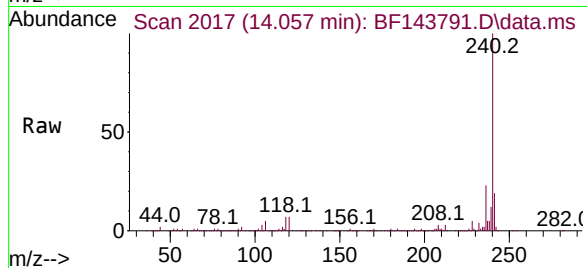
80 11.0 8.6 12.8



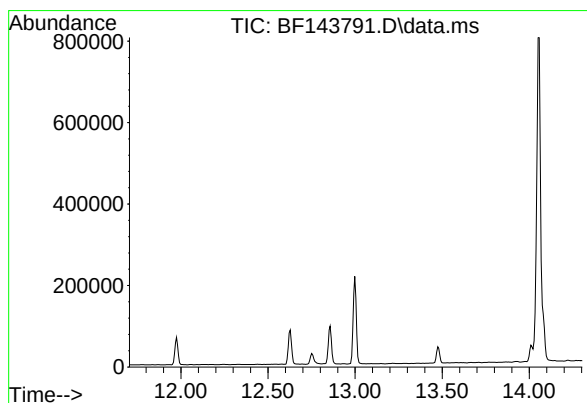
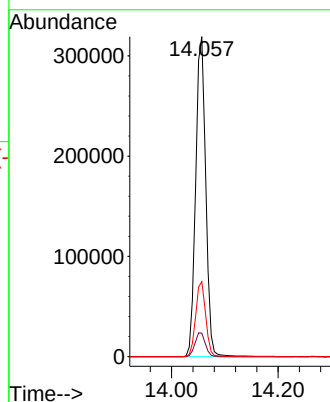
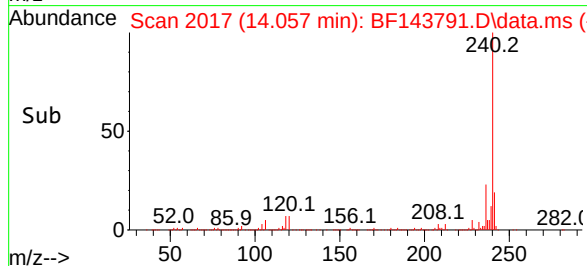


#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.057 min Scan# 20  
Delta R.T. -0.006 min  
Lab File: BF143791.D  
Acq: 23 Sep 2025 10:28

Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC2.5



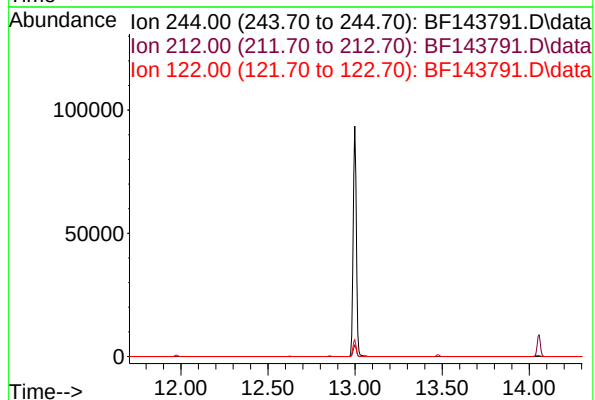
Tgt Ion:240 Resp: 419162  
Ion Ratio Lower Upper  
240 100  
120 7.3 6.2 9.4  
236 23.4 19.4 29.2

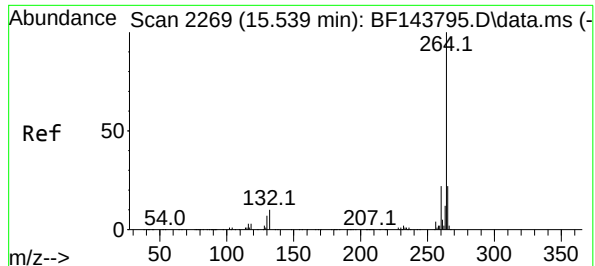


#79  
Terphenyl-d14  
Concen: 0.000 ng  
Expected RT: 13.00 min

Lab File: BF143791.D  
Acq: 23 Sep 2025 10:28

Tgt Ion: 244  
Sig Exp Ratio  
244 100  
212 4.9  
122 7.0





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.533 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF143791.D

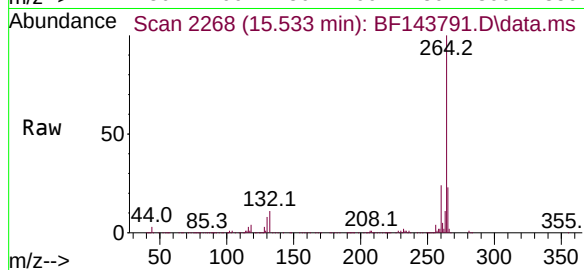
Acq: 23 Sep 2025 10:28

Instrument :

BNA\_F

ClientSampleId :

SSTDICC2.5



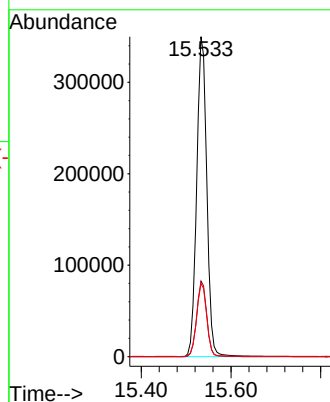
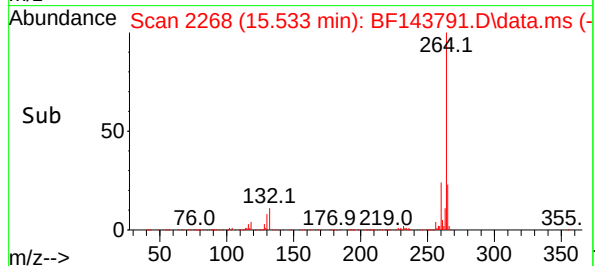
Tgt Ion:264 Resp: 547725

Ion Ratio Lower Upper

264 100

260 23.6 17.9 26.9

265 22.8 17.7 26.5



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF092325\  
 Data File : BF143792.D  
 Acq On : 23 Sep 2025 10:58  
 Operator : RC/JU  
 Sample : SSTDICC005  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SSTDICC005

Quant Time: Sep 24 04:31:44 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF092325.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Sep 23 17:50:26 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.886  | 152  | 137641   | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8            | 8.169  | 136  | 513746   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10          | 9.922  | 164  | 252917   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10          | 11.410 | 188  | 379147   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12              | 14.057 | 240  | 398321   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12              | 15.533 | 264  | 555053   | 20.000 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 0.000  | 112  | 0d       | 0.000  | ng    |          |
| 7) Phenol-d6                  | 0.000  | 99   | 0d       | 0.000  | ng    |          |
| 23) Nitrobenzene-d5           | 0.000  | 82   | 0d       | 0.000  | ng    |          |
| 42) 2,4,6-Tribromophenol      | 0.000  | 330  | 0d       | 0.000  | ng    |          |
| 45) 2-Fluorobiphenyl          | 0.000  | 172  | 0d       | 0.000  | ng    |          |
| 79) Terphenyl-d14             | 0.000  | 244  | 0d       | 0.000  | ng    |          |
| Target Compounds              |        |      |          |        |       |          |
|                               |        |      |          |        |       | Qvalue   |
| 2) 1,4-Dioxane                | 2.640  | 88   | 20444    | 5.042  | ng    | 99       |
| 3) Pyridine                   | 3.416  | 79   | 54556    | 4.984  | ng    | 97       |
| 6) Aniline                    | 6.545  | 93   | 78570    | 5.530  | ng    | 97       |
| 8) 2-Chlorophenol             | 6.663  | 128  | 44880    | 5.175  | ng    | 99       |
| 10) Phenol                    | 6.510  | 94   | 60619    | 5.328  | ng    | 98       |
| 11) bis(2-Chloroethyl)ether   | 6.616  | 93   | 47743    | 5.353  | ng    | 97       |
| 12) 1,3-Dichlorobenzene       | 6.828  | 146  | 55825    | 5.544  | ng    | 99       |
| 13) 1,4-Dichlorobenzene       | 6.904  | 146  | 56211    | 5.594  | ng    | 100      |
| 14) 1,2-Dichlorobenzene       | 7.057  | 146  | 53628    | 5.635  | ng    | 97       |
| 16) 2,2'-oxybis(1-Chloropr... | 7.157  | 45   | 114228   | 5.401  | ng    | 99       |
| 17) 2-Methylphenol            | 7.122  | 107  | 35529    | 5.291  | ng    | 98       |
| 18) Hexachloroethane          | 7.398  | 117  | 19083    | 5.400  | ng    | 97       |
| 19) n-Nitroso-di-n-propyla... | 7.286  | 70   | 34084    | 5.415  | ng    | 99       |
| 22) Acetophenone              | 7.286  | 105  | 64220    | 5.691  | ng    | 99       |
| 24) Nitrobenzene              | 7.457  | 77   | 46458    | 4.994  | ng    | 98       |
| 25) Isophorone                | 7.698  | 82   | 85608    | 5.234  | ng    | 99       |
| 26) 2-Nitrophenol             | 7.781  | 139  | 11396    | 5.528  | ng    | 97       |
| 27) 2,4-Dimethylphenol        | 7.810  | 122  | 37440    | 5.122  | ng    | 100      |
| 28) bis(2-Chloroethoxy)met... | 7.910  | 93   | 58456    | 5.501  | ng    | 98       |
| 29) 2,4-Dichlorophenol        | 8.016  | 162  | 35586    | 4.947  | ng    | 98       |
| 30) 1,2,4-Trichlorobenzene    | 8.110  | 180  | 40333    | 5.403  | ng    | 99       |
| 31) Naphthalene               | 8.186  | 128  | 135838   | 5.523  | ng    | 100      |
| 33) 4-Chloroaniline           | 8.233  | 127  | 46191    | 5.345  | ng    | 98       |
| 34) Hexachlorobutadiene       | 8.310  | 225  | 29187    | 5.245  | ng    | 99       |
| 36) 4-Chloro-3-methylphenol   | 8.704  | 107  | 34756    | 5.152  | ng    | 95       |
| 37) 2-Methylnaphthalene       | 8.880  | 142  | 88002    | 5.612  | ng    | 100      |
| 38) 1-Methylnaphthalene       | 8.980  | 142  | 84197    | 5.609  | ng    | 98       |
| 40) 1,2,4,5-Tetrachloroben... | 9.045  | 216  | 41527    | 5.441  | ng    | 99       |
| 43) 2,4,6-Trichlorophenol     | 9.151  | 196  | 21768    | 4.555  | ng    | 97       |
| 44) 2,4,5-Trichlorophenol     | 9.186  | 196  | 23454    | 4.692  | ng    | 96       |
| 46) 1,1'-Biphenyl             | 9.345  | 154  | 101651   | 5.552  | ng    | 100      |
| 47) 2-Chloronaphthalene       | 9.369  | 162  | 81117    | 5.504  | ng    | 99       |
| 48) 2-Nitroaniline            | 9.457  | 65   | 15262    | 3.427  | ng    | 93       |
| 49) Acenaphthylene            | 9.786  | 152  | 109327   | 5.389  | ng    | 99       |
| 50) Dimethylphthalate         | 9.633  | 163  | 80614    | 5.229  | ng    | 99       |
| 51) 2,6-Dinitrotoluene        | 9.698  | 165  | 8744     | 3.452  | ng    | 95       |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF092325\  
 Data File : BF143792.D  
 Acq On : 23 Sep 2025 10:58  
 Operator : RC/JU  
 Sample : SSTDICC005  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SSTDICC005

Quant Time: Sep 24 04:31:44 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF092325.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Sep 23 17:50:26 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| 52) Acenaphthene              | 9.957  | 154  | 71713    | 5.372 | ng    | 97       |
| 53) 3-Nitroaniline            | 9.869  | 138  | 10825    | 3.526 | ng #  | 89       |
| 55) Dibenzofuran              | 10.127 | 168  | 104283   | 5.524 | ng    | 99       |
| 57) 2,4-Dinitrotoluene        | 10.098 | 165  | 9518     | 5.298 | ng #  | 84       |
| 58) Fluorene                  | 10.469 | 166  | 80629    | 5.745 | ng    | 99       |
| 59) 2,3,4,6-Tetrachlorophenol | 10.245 | 232  | 17203    | 4.017 | ng #  | 98       |
| 60) Diethylphthalate          | 10.339 | 149  | 73247    | 5.076 | ng    | 99       |
| 61) 4-Chlorophenyl-phenyle... | 10.463 | 204  | 39239    | 5.487 | ng    | 98       |
| 62) 4-Nitroaniline            | 10.474 | 138  | 10259    | 3.554 | ng    | 96       |
| 63) Azobenzene                | 10.621 | 77   | 79697    | 5.240 | ng    | 98       |
| 66) n-Nitrosodiphenylamine    | 10.580 | 169  | 67054    | 5.378 | ng    | 99       |
| 67) 4-Bromophenyl-phenylether | 10.957 | 248  | 32607    | 5.047 | ng    | 97       |
| 68) Hexachlorobenzene         | 11.021 | 284  | 46642    | 5.238 | ng    | 100      |
| 69) Atrazine                  | 11.104 | 200  | 16909    | 4.683 | ng    | 96       |
| 71) Phenanthrene              | 11.433 | 178  | 108554   | 5.577 | ng    | 98       |
| 72) Anthracene                | 11.486 | 178  | 103911   | 5.322 | ng    | 99       |
| 73) Carbazole                 | 11.639 | 167  | 86827    | 5.086 | ng    | 100      |
| 74) Di-n-butylphthalate       | 11.974 | 149  | 89101    | 4.538 | ng    | 100      |
| 75) Fluoranthene              | 12.627 | 202  | 96550    | 4.932 | ng    | 99       |
| 78) Pyrene                    | 12.857 | 202  | 103385   | 5.279 | ng    | 99       |
| 80) Butylbenzylphthalate      | 13.474 | 149  | 25033    | 3.695 | ng    | 97       |
| 81) Benzo(a)anthracene        | 14.045 | 228  | 110473   | 5.163 | ng    | 99       |
| 83) Chrysene                  | 14.080 | 228  | 103643   | 5.353 | ng    | 99       |
| 84) Bis(2-ethylhexyl)phtha... | 14.039 | 149  | 42651    | 4.295 | ng    | 98       |
| 87) Indeno(1,2,3-cd)pyrene    | 17.021 | 276  | 205787   | 4.886 | ng    | 98       |
| 88) Benzo(b)fluoranthene      | 15.098 | 252  | 137015   | 4.847 | ng    | 99       |
| 89) Benzo(k)fluoranthene      | 15.127 | 252  | 147201   | 5.184 | ng    | 99       |
| 90) Benzo(a)pyrene            | 15.468 | 252  | 128819   | 4.848 | ng    | 98       |
| 91) Dibenzo(a,h)anthracene    | 17.039 | 278  | 167469   | 4.862 | ng    | 99       |
| 92) Benzo(g,h,i)perylene      | 17.468 | 276  | 157425   | 4.741 | ng    | 99       |

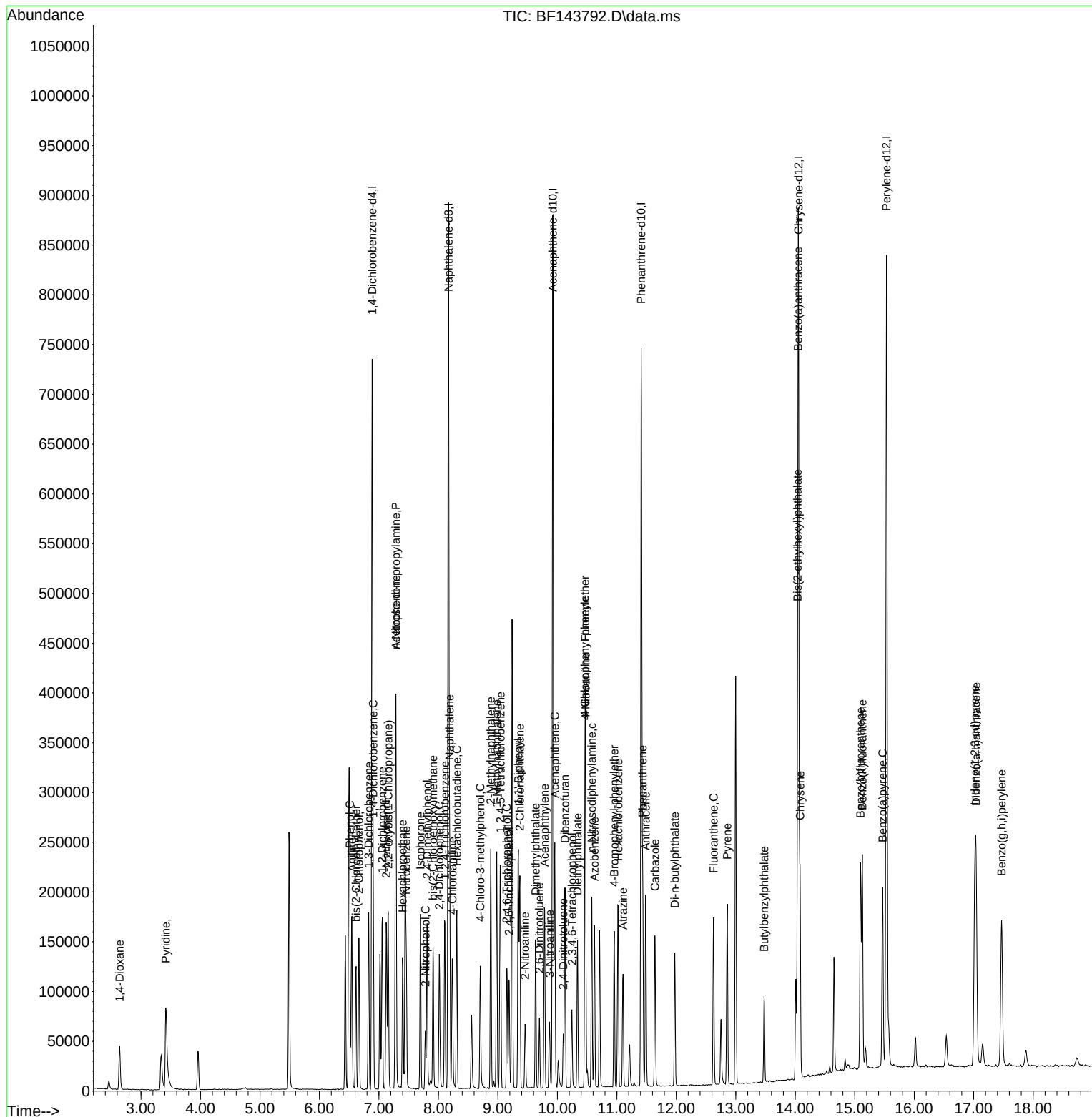
(#) = qualifier out of range (m) = manual integration (+) = signals summed

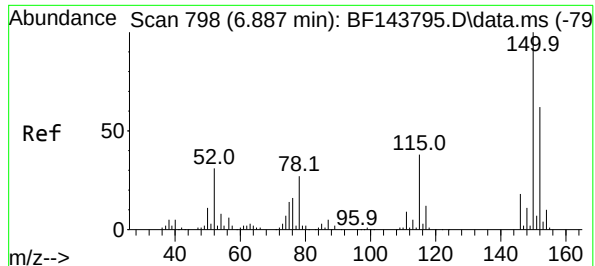


Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF092325\  
Data File : BF143792.D  
Acq On : 23 Sep 2025 10:58  
Operator : RC/JU  
Sample : SSTDICC005  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**  
BNA\_F  
**ClientSampleId :**  
SSTDICC005

Quant Time: Sep 24 04:31:44 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF092325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Sep 23 17:50:26 2025  
Response via : Initial Calibration

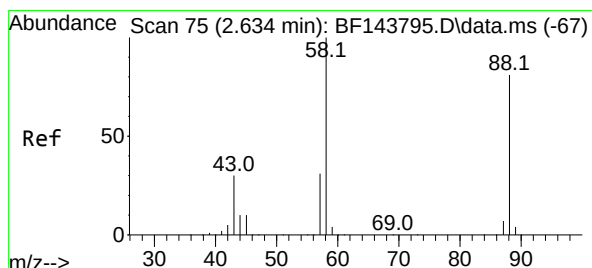
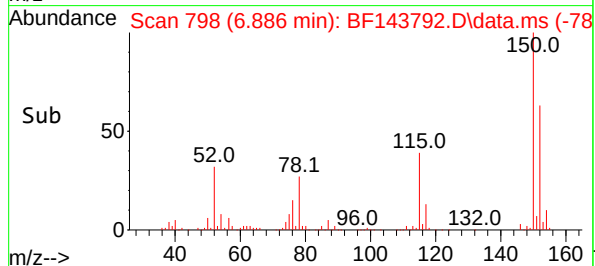
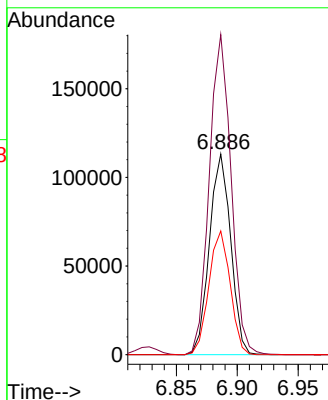
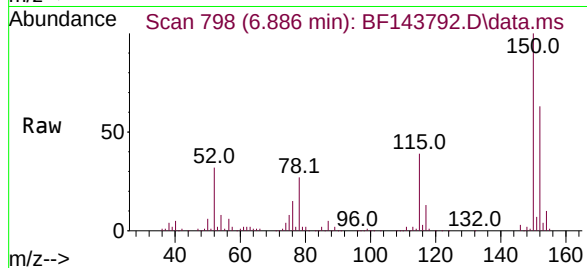




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.886 min Scan# 79  
Delta R.T. -0.001 min  
Lab File: BF143792.D  
Acq: 23 Sep 2025 10:58

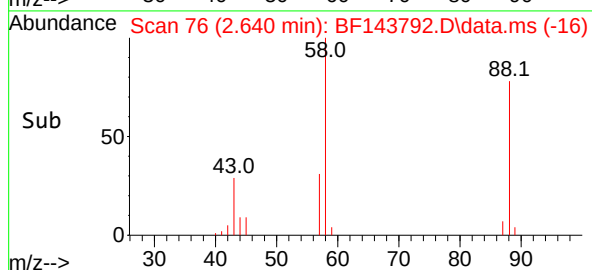
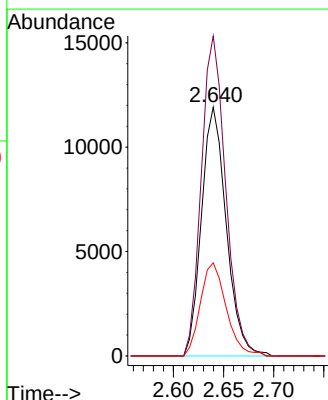
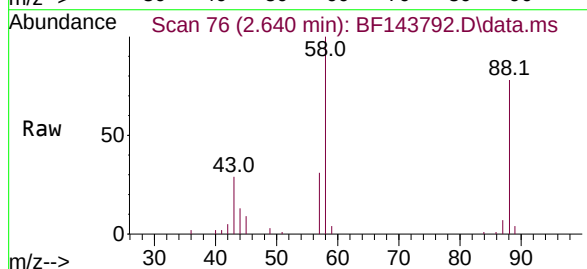
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDIC005

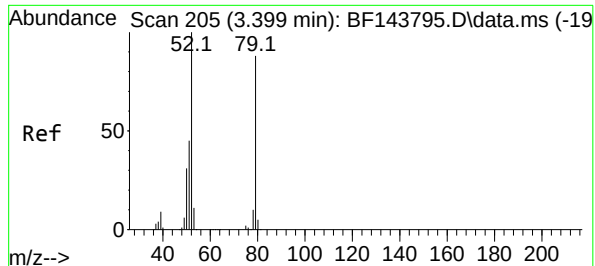
Tgt Ion:152 Resp: 137641  
Ion Ratio Lower Upper  
152 100  
150 159.5 129.6 194.4  
115 61.6 49.0 73.4



#2  
1,4-Dioxane  
Concen: 5.042 ng  
RT: 2.640 min Scan# 76  
Delta R.T. 0.006 min  
Lab File: BF143792.D  
Acq: 23 Sep 2025 10:58

Tgt Ion: 88 Resp: 20444  
Ion Ratio Lower Upper  
88 100  
58 126.0 99.4 149.2  
43 38.9 30.6 45.8





#3

Pyridine

Concen: 4.984 ng

RT: 3.416 min Scan# 20

Delta R.T. 0.018 min

Lab File: BF143792.D

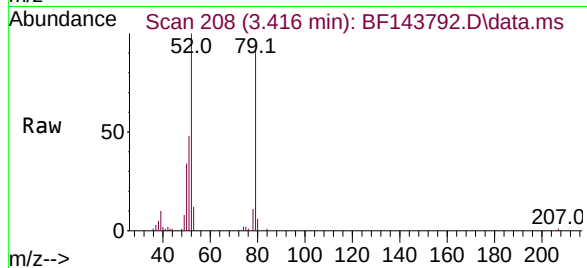
Acq: 23 Sep 2025 10:58

Instrument :

BNA\_F

ClientSampleId :

SSTDICC005



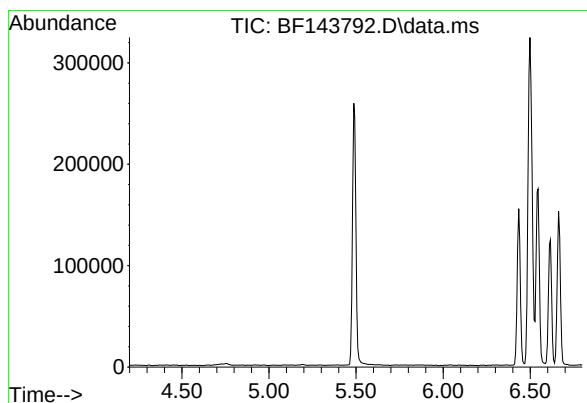
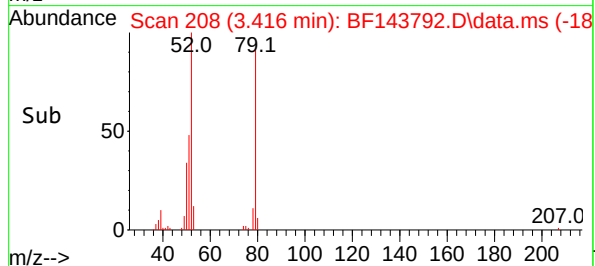
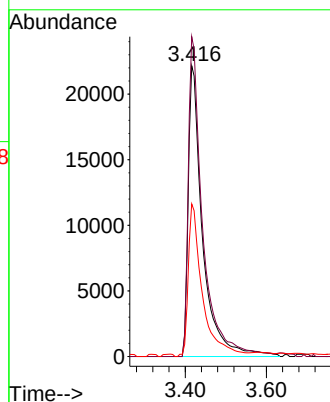
Tgt Ion: 79 Resp: 54556

Ion Ratio Lower Upper

79 100

52 110.0 90.5 135.7

51 52.5 40.6 61.0



#5

2-Fluorophenol

Concen: 0.000 ng

Expected RT: 5.50 min

Lab File: BF143792.D

Acq: 23 Sep 2025 10:58

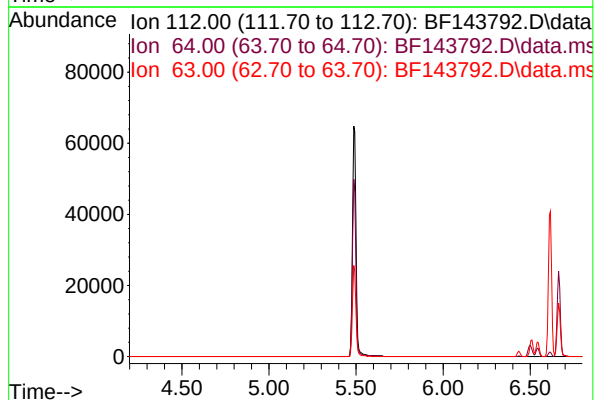
Tgt Ion: 112

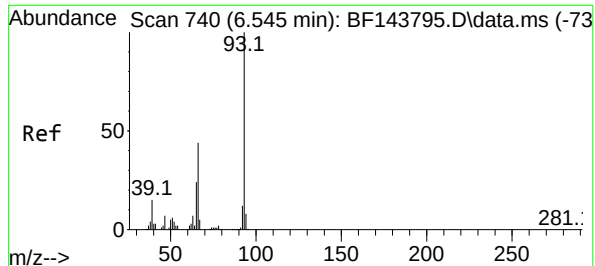
Sig Exp Ratio

112 100

64 78.7

63 40.8

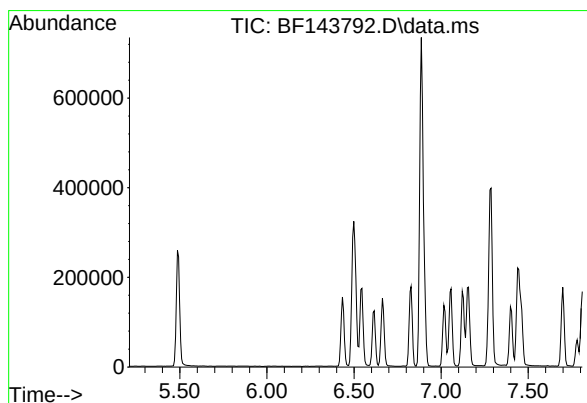
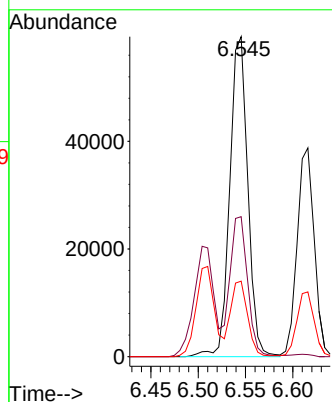
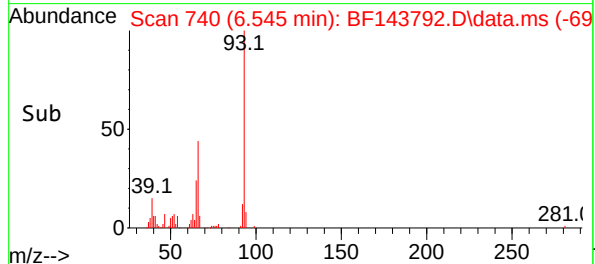
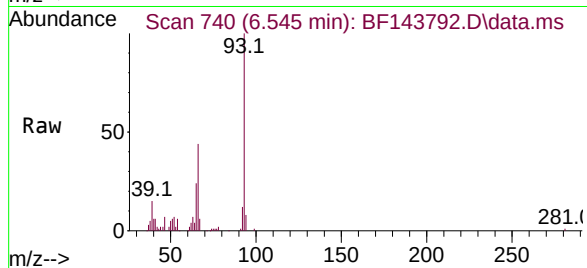




#6  
Aniline  
Concen: 5.530 ng  
RT: 6.545 min Scan# 74  
Delta R.T. -0.006 min  
Lab File: BF143792.D  
Acq: 23 Sep 2025 10:58

Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC005

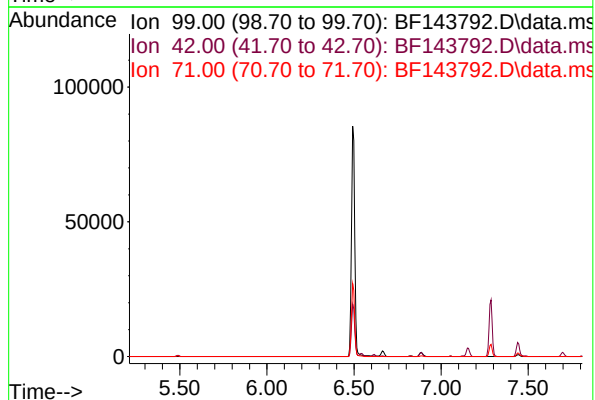
Tgt Ion: 93 Resp: 78570  
Ion Ratio Lower Upper  
93 100  
66 43.7 37.1 55.7  
65 23.6 19.4 29.0

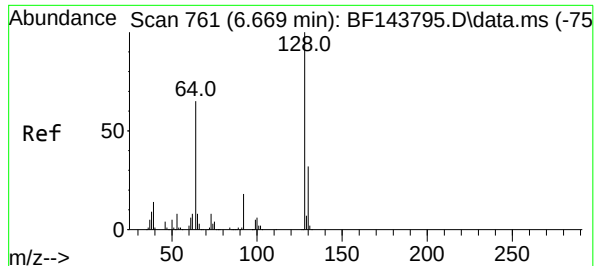


#7  
Phenol-d6  
Concen: 0.000 ng  
Expected RT: 6.51 min

Lab File: BF143792.D  
Acq: 23 Sep 2025 10:58

Tgt Ion: 99  
Sig Exp Ratio  
99 100  
42 23.3  
71 33.7

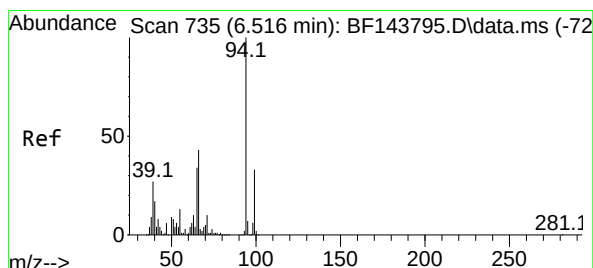
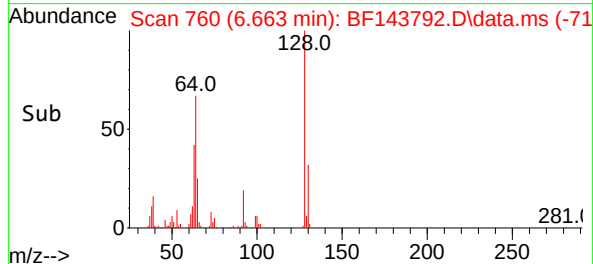
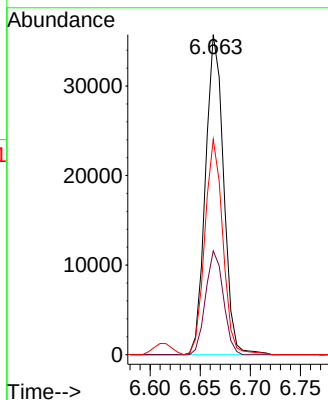
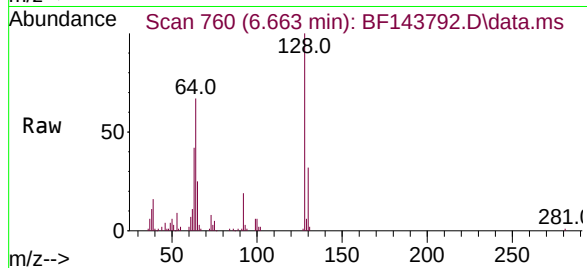




#8  
2-Chlorophenol  
Concen: 5.175 ng  
RT: 6.663 min Scan# 761  
Delta R.T. -0.006 min  
Lab File: BF143792.D  
Acq: 23 Sep 2025 10:58

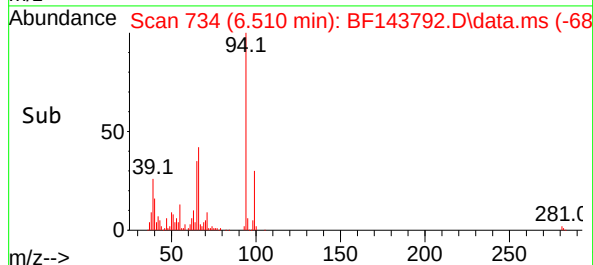
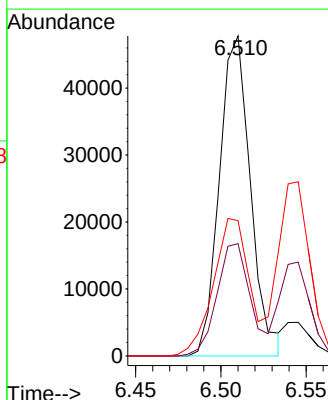
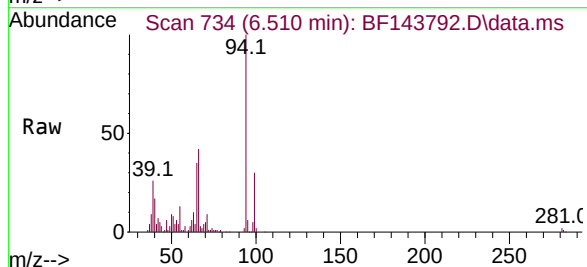
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC005

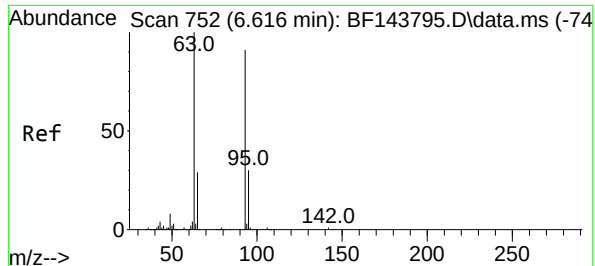
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 128   | Resp: | 44880 |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 130       | 32.4  | 12.2  | 52.2  |
| 64        | 67.3  | 46.5  | 86.5  |



#10  
Phenol  
Concen: 5.328 ng  
RT: 6.510 min Scan# 734  
Delta R.T. -0.018 min  
Lab File: BF143792.D  
Acq: 23 Sep 2025 10:58

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 94    | Resp: | 60619 |
| Ion Ratio | Lower | Upper |       |
| 94        | 100   |       |       |
| 65        | 35.1  | 14.2  | 54.2  |
| 66        | 42.3  | 24.1  | 64.1  |

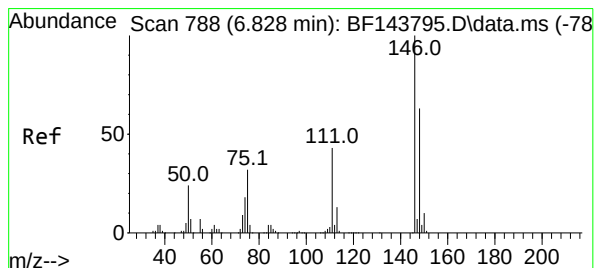
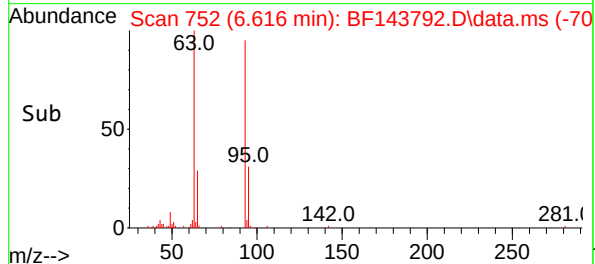
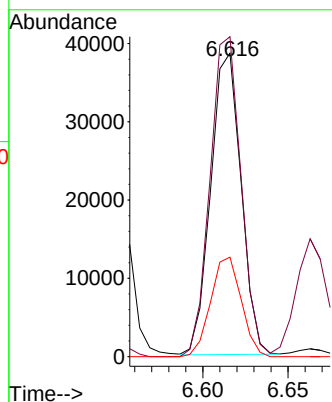
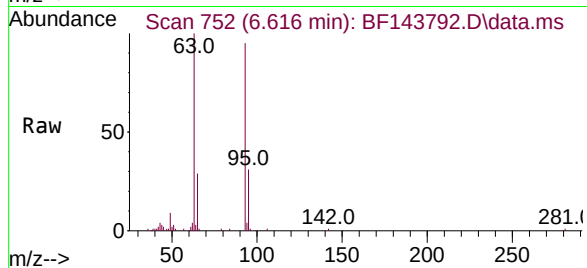




#11  
bis(2-Chloroethyl)ether  
Concen: 5.353 ng  
RT: 6.616 min Scan# 752  
Delta R.T. -0.006 min  
Lab File: BF143792.D  
Acq: 23 Sep 2025 10:58

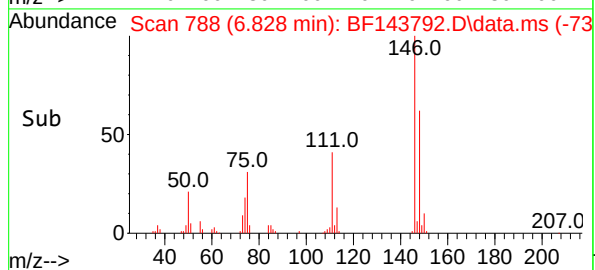
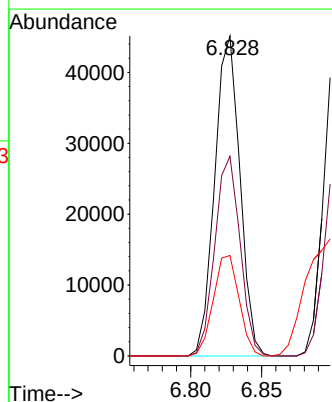
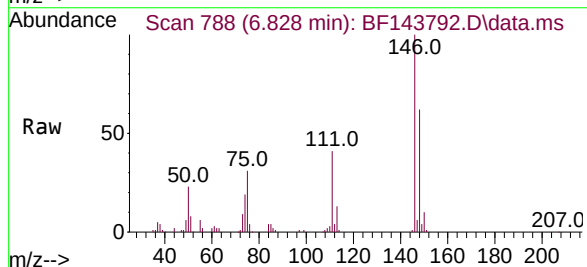
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC005

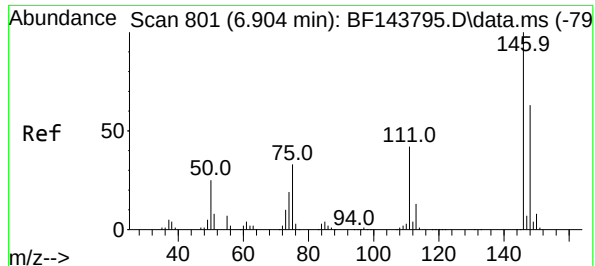
Tgt Ion: 93 Resp: 47743  
Ion Ratio Lower Upper  
93 100  
63 105.4 89.2 129.2  
95 32.8 12.9 52.9



#12  
1,3-Dichlorobenzene  
Concen: 5.544 ng  
RT: 6.828 min Scan# 788  
Delta R.T. -0.000 min  
Lab File: BF143792.D  
Acq: 23 Sep 2025 10:58

Tgt Ion: 146 Resp: 55825  
Ion Ratio Lower Upper  
146 100  
148 62.4 50.4 75.6  
75 31.4 25.6 38.4





#13

1,4-Dichlorobenzene

Concen: 5.594 ng

RT: 6.904 min Scan# 801

Delta R.T. -0.000 min

Lab File: BF143792.D

Acq: 23 Sep 2025 10:58

Instrument :

BNA\_F

ClientSampleId :

SSTDICC005

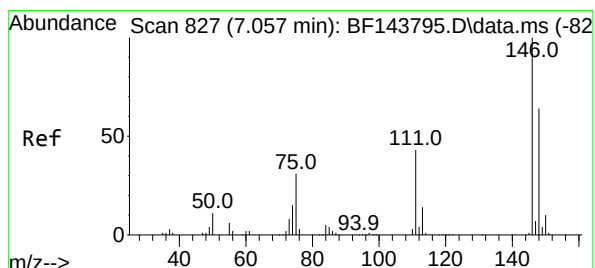
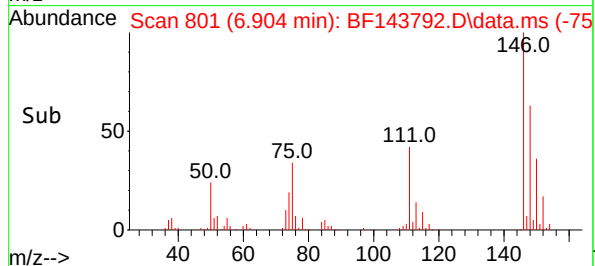
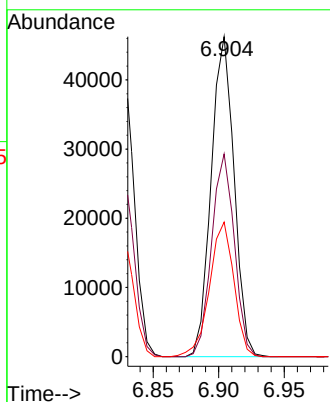
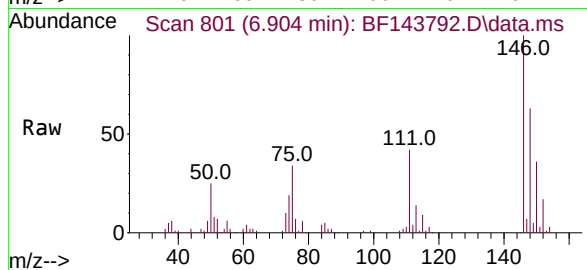
Tgt Ion:146 Resp: 56211

Ion Ratio Lower Upper

146 100

148 63.3 50.7 76.1

111 42.0 33.4 50.2



#14

1,2-Dichlorobenzene

Concen: 5.635 ng

RT: 7.057 min Scan# 827

Delta R.T. -0.000 min

Lab File: BF143792.D

Acq: 23 Sep 2025 10:58

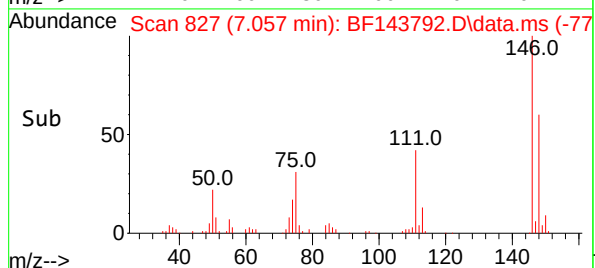
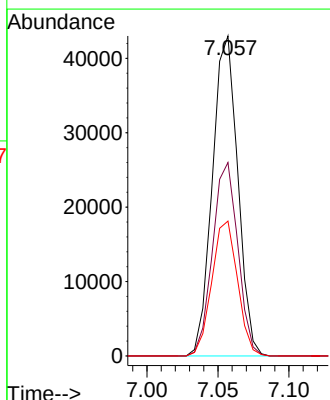
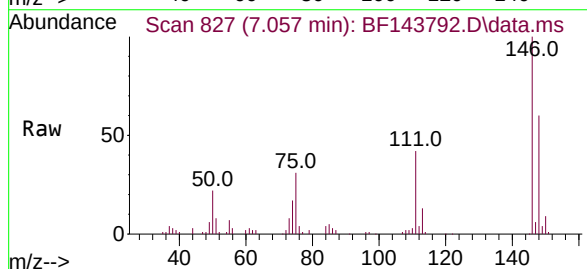
Tgt Ion:146 Resp: 53628

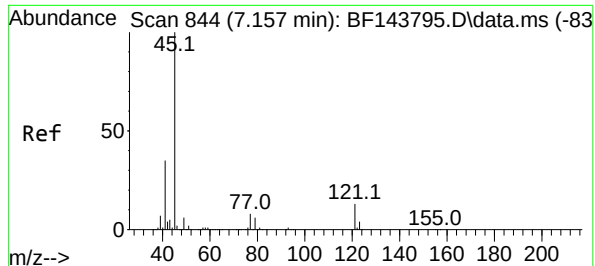
Ion Ratio Lower Upper

146 100

148 60.4 51.1 76.7

111 42.1 34.3 51.5





#16

2,2'-oxybis(1-Chloropropane)

Concen: 5.401 ng

RT: 7.157 min Scan# 844

Delta R.T. -0.000 min

Lab File: BF143792.D

Acq: 23 Sep 2025 10:58

Instrument :

BNA\_F

ClientSampleId :

SSTDICC005

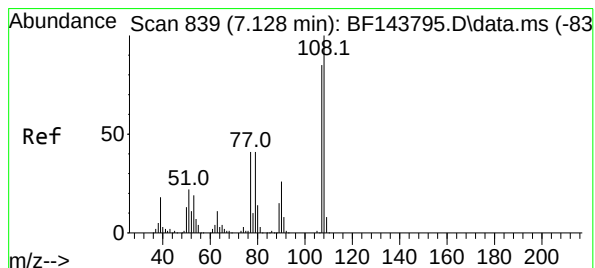
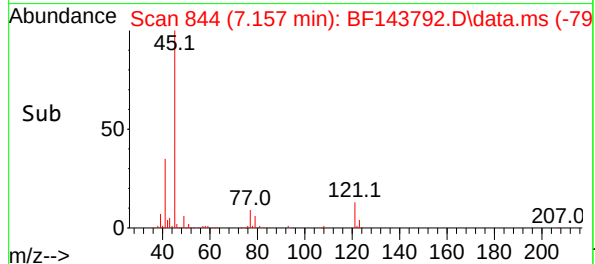
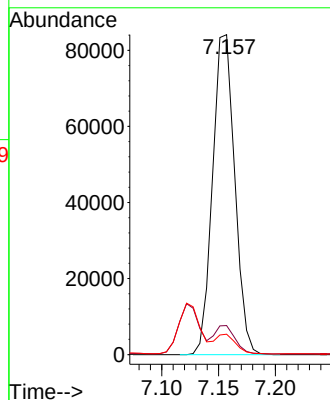
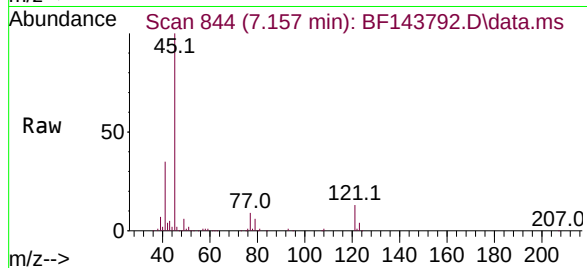
Tgt Ion: 45 Resp: 114228

Ion Ratio Lower Upper

45 100

77 9.1 0.0 28.5

79 6.4 0.0 26.3



#17

2-Methylphenol

Concen: 5.291 ng

RT: 7.122 min Scan# 838

Delta R.T. -0.012 min

Lab File: BF143792.D

Acq: 23 Sep 2025 10:58

Tgt Ion: 107 Resp: 35529

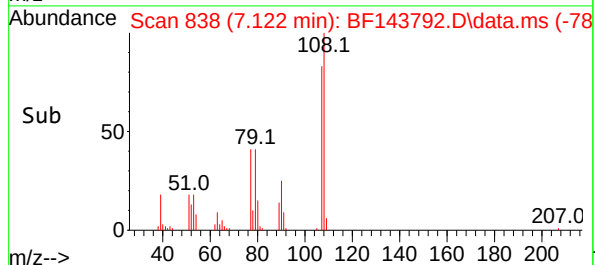
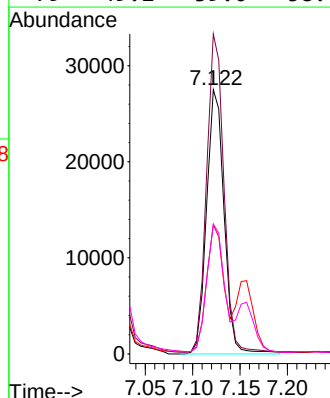
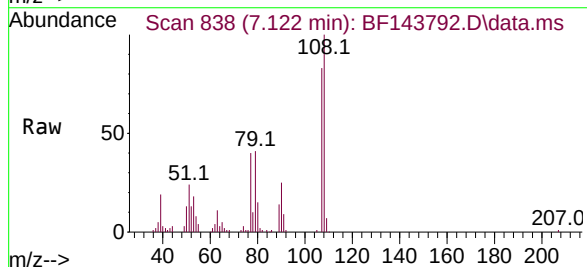
Ion Ratio Lower Upper

107 100

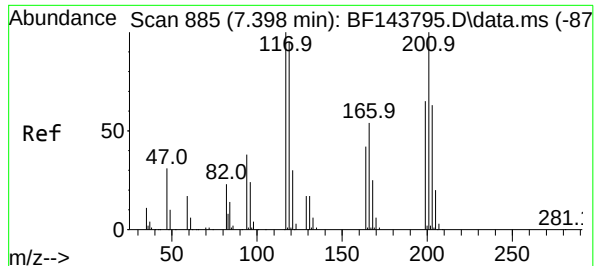
108 121.1 94.2 141.4

77 48.8 38.6 58.0

79 49.2 39.0 58.4



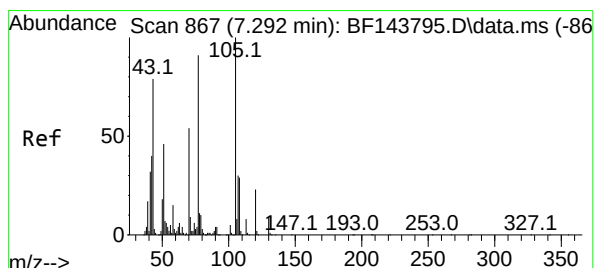
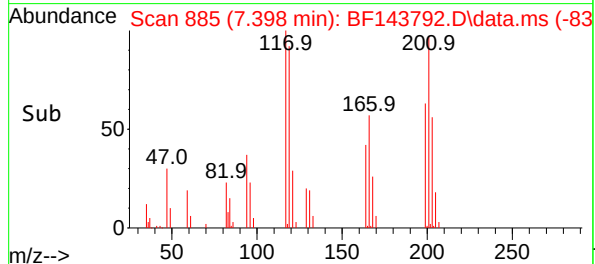
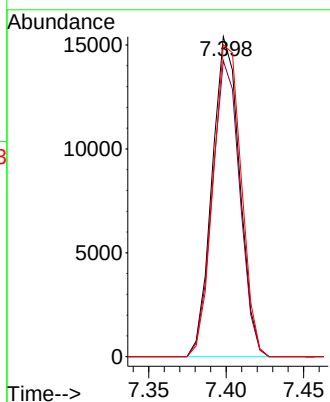
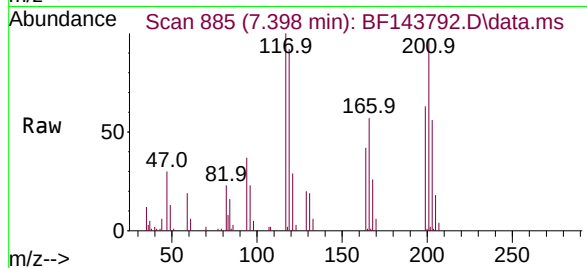




#18  
Hexachloroethane  
Concen: 5.400 ng  
RT: 7.398 min Scan# 885  
Delta R.T. -0.006 min  
Lab File: BF143792.D  
Acq: 23 Sep 2025 10:58

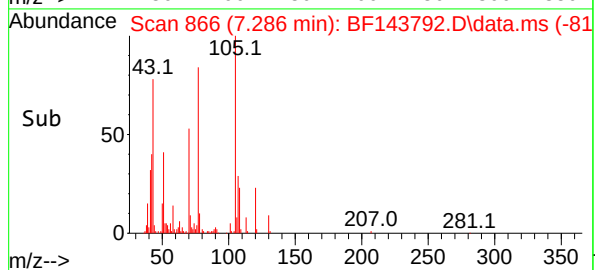
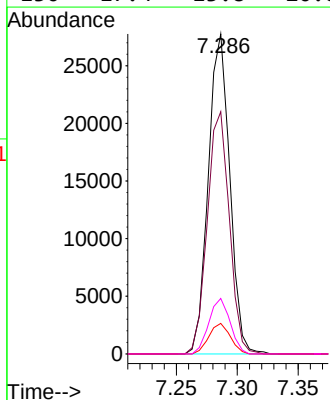
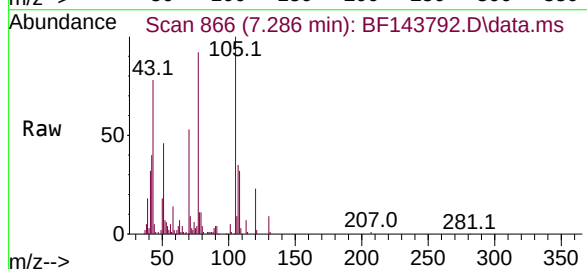
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC005

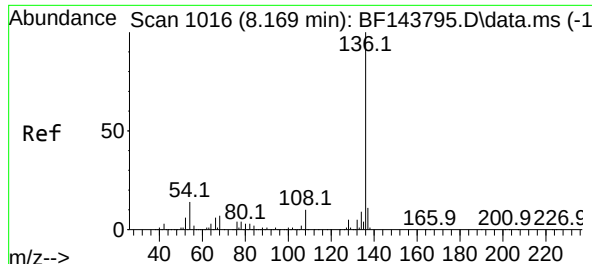
Tgt Ion:117 Resp: 19083  
Ion Ratio Lower Upper  
117 100  
119 92.4 76.2 114.2  
201 97.4 79.7 119.5



#19  
n-Nitroso-di-n-propylamine  
Concen: 5.415 ng  
RT: 7.286 min Scan# 866  
Delta R.T. -0.018 min  
Lab File: BF143792.D  
Acq: 23 Sep 2025 10:58

Tgt Ion: 70 Resp: 34084  
Ion Ratio Lower Upper  
70 100  
42 75.7 59.4 89.0  
101 9.5 7.1 10.7  
130 17.4 13.8 20.8





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.169 min Scan# 1016

Delta R.T. -0.000 min

Lab File: BF143792.D

Acq: 23 Sep 2025 10:58

Instrument :

BNA\_F

ClientSampleId :

SSTDIC005

Tgt Ion:136 Resp: 513746

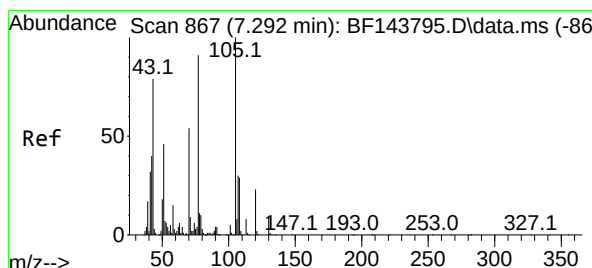
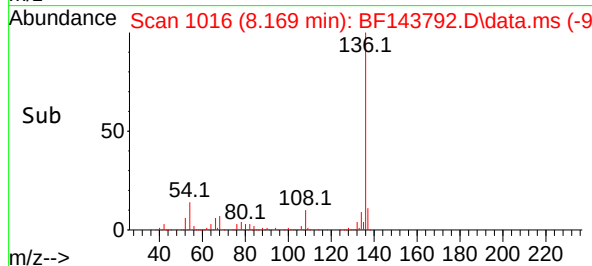
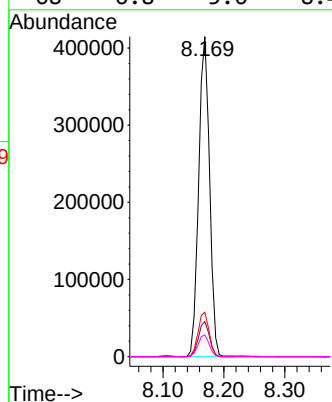
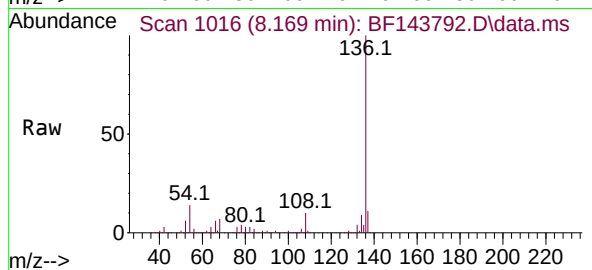
Ion Ratio Lower Upper

136 100

137 10.9 9.0 13.4

54 13.8 11.2 16.8

68 6.8 5.6 8.4



#22

Acetophenone

Concen: 5.691 ng

RT: 7.286 min Scan# 866

Delta R.T. -0.012 min

Lab File: BF143792.D

Acq: 23 Sep 2025 10:58

Tgt Ion:105 Resp: 64220

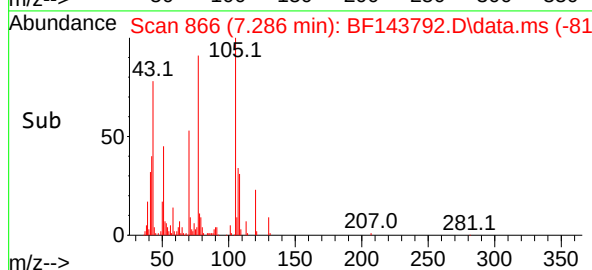
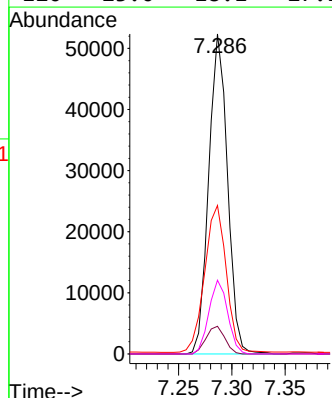
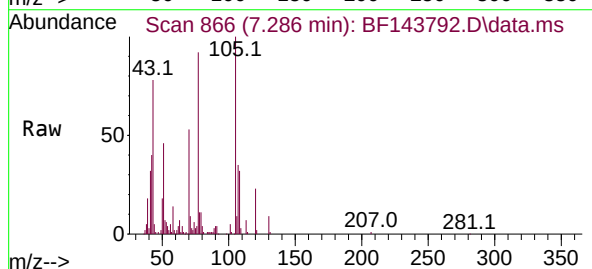
Ion Ratio Lower Upper

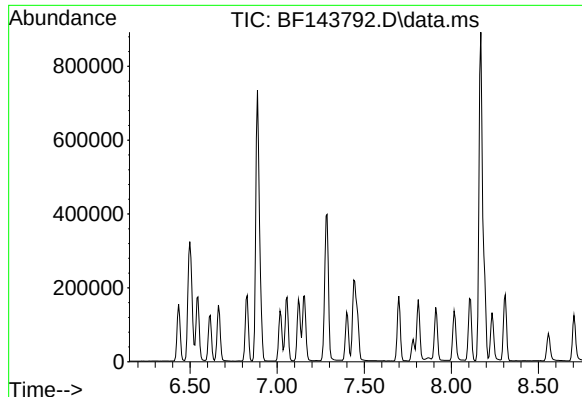
105 100

71 8.6 7.0 10.4

51 46.4 36.6 55.0

120 23.0 18.1 27.1





#23

Nitrobenzene-d5

Concen: 0.000 ng

Expected RT: 7.45 min

Lab File: BF143792.D

Acq: 23 Sep 2025 10:58

Instrument :

BNA\_F

ClientSampleId :

SSTDICC005

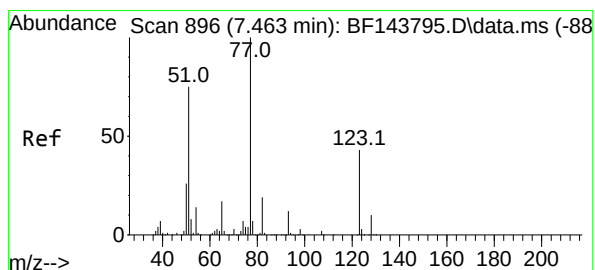
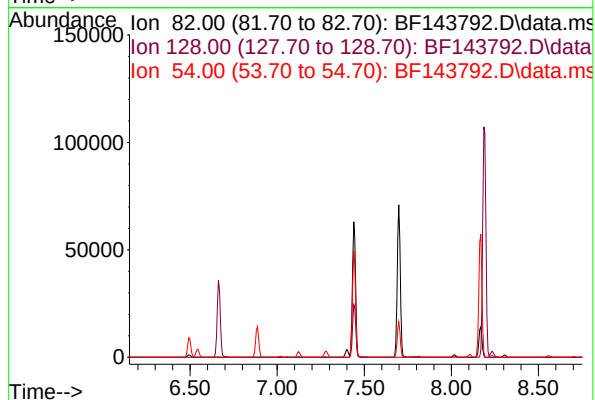
Tgt Ion: 82

Sig Exp Ratio

82 100

128 41.6

54 80.3



#24

Nitrobenzene

Concen: 4.994 ng

RT: 7.457 min Scan# 895

Delta R.T. -0.018 min

Lab File: BF143792.D

Acq: 23 Sep 2025 10:58

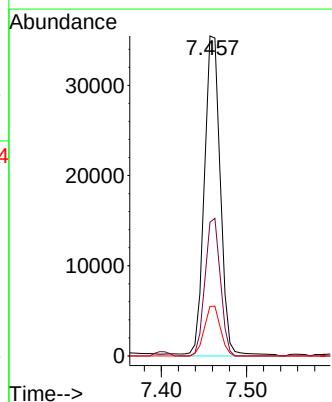
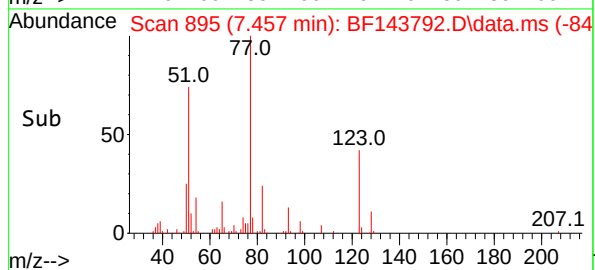
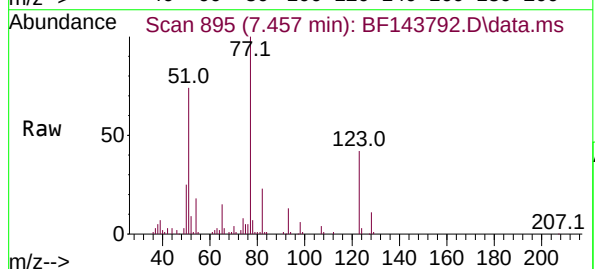
Tgt Ion: 77 Resp: 46458

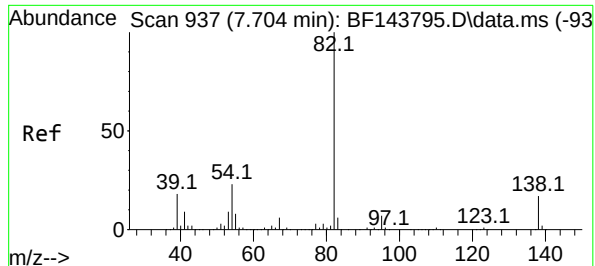
Ion Ratio Lower Upper

77 100

123 41.8 34.0 51.0

65 15.5 13.5 20.3

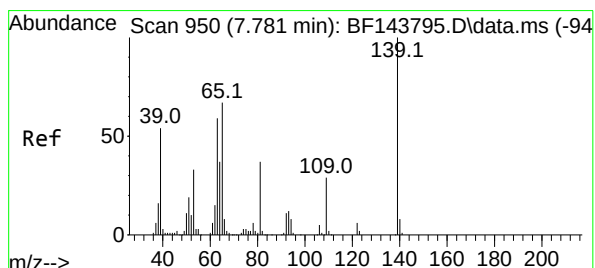
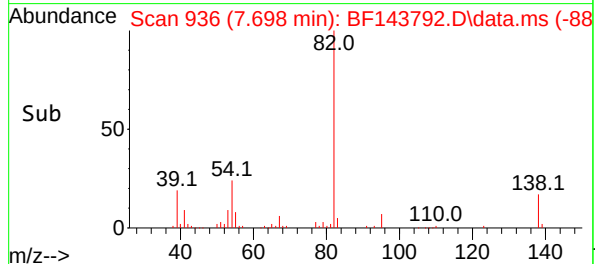
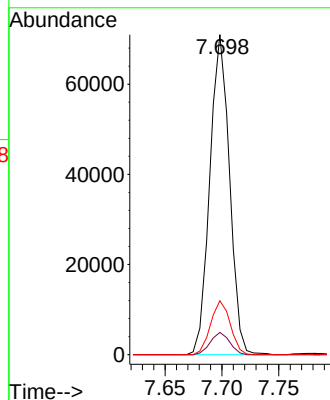
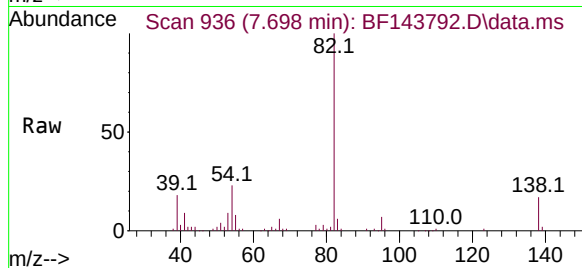




#25  
Isophorone  
Concen: 5.234 ng  
RT: 7.698 min Scan# 91  
Delta R.T. -0.012 min  
Lab File: BF143792.D  
Acq: 23 Sep 2025 10:58

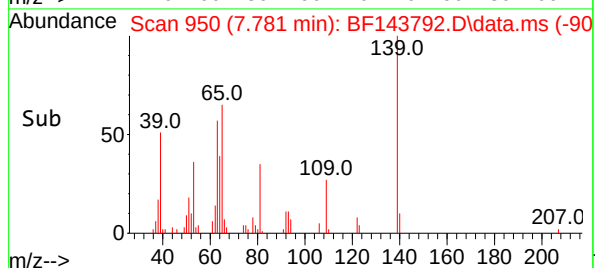
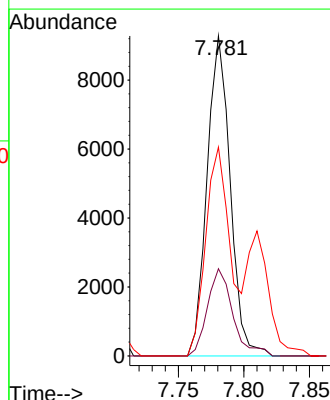
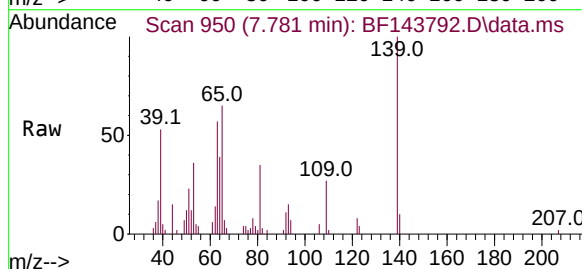
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC005

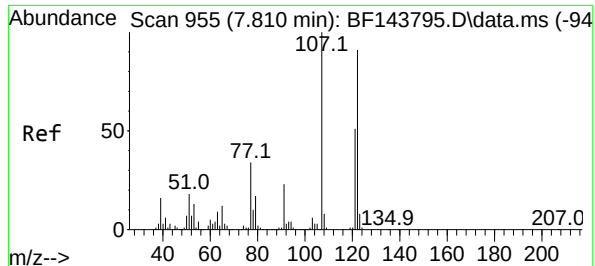
| Tgt Ion:  | 82    | Resp: | 85608 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 82        | 100   |       |       |
| 95        | 6.9   | 5.4   | 8.2   |
| 138       | 16.8  | 13.7  | 20.5  |



#26  
2-Nitrophenol  
Concen: 5.528 ng  
RT: 7.781 min Scan# 950  
Delta R.T. -0.005 min  
Lab File: BF143792.D  
Acq: 23 Sep 2025 10:58

| Tgt Ion:  | 139   | Resp: | 11396 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 139       | 100   |       |       |
| 109       | 27.2  | 23.3  | 34.9  |
| 65        | 65.2  | 53.8  | 80.6  |





#27

2,4-Dimethylphenol

Concen: 5.122 ng

RT: 7.810 min Scan# 91

Delta R.T. -0.006 min

Lab File: BF143792.D

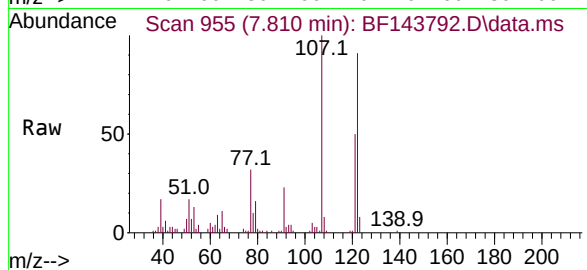
Acq: 23 Sep 2025 10:58

Instrument :

BNA\_F

ClientSampleId :

SSTDICC005



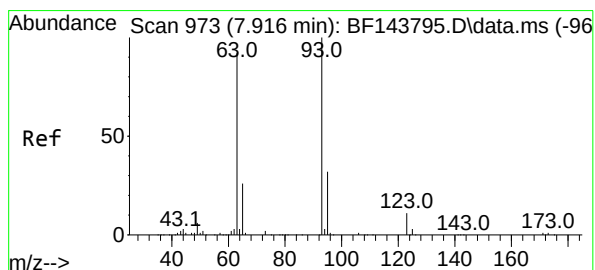
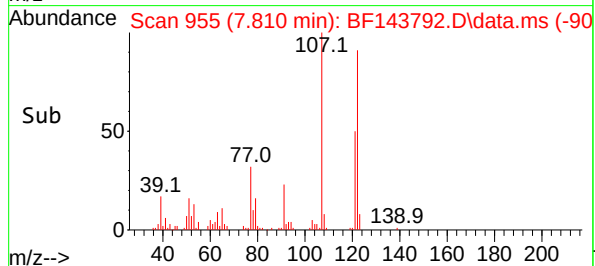
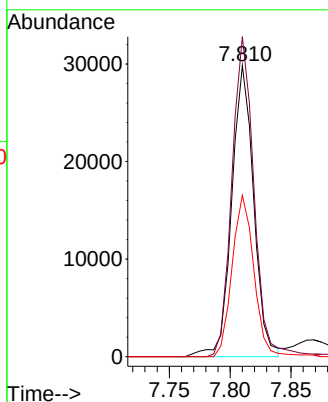
Tgt Ion:122 Resp: 37440

Ion Ratio Lower Upper

122 100

107 110.0 87.5 131.3

121 55.5 44.2 66.4



#28

bis(2-Chloroethoxy)methane

Concen: 5.501 ng

RT: 7.910 min Scan# 972

Delta R.T. -0.006 min

Lab File: BF143792.D

Acq: 23 Sep 2025 10:58

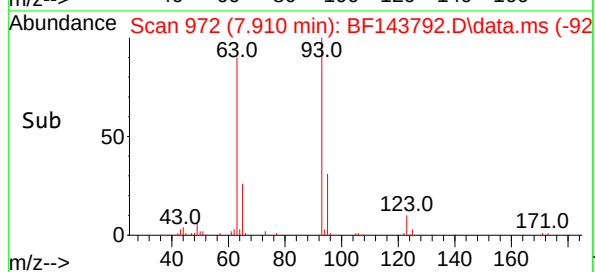
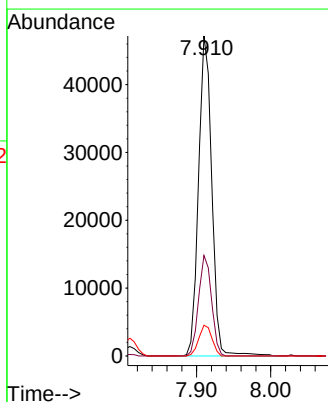
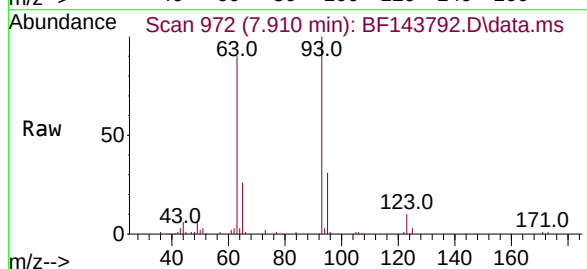
Tgt Ion: 93 Resp: 58456

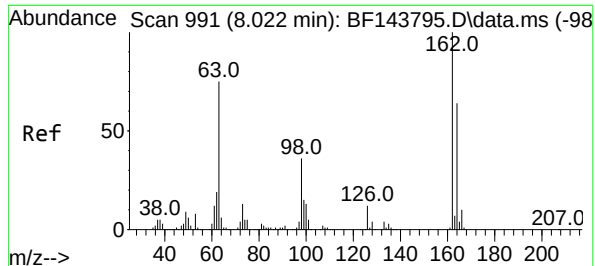
Ion Ratio Lower Upper

93 100

95 31.4 25.8 38.8

123 9.6 8.8 13.2





#29

2,4-Dichlorophenol

Concen: 4.947 ng

RT: 8.016 min Scan# 991

Delta R.T. -0.006 min

Lab File: BF143792.D

Acq: 23 Sep 2025 10:58

Instrument :

BNA\_F

ClientSampleId :

SSTDIC005

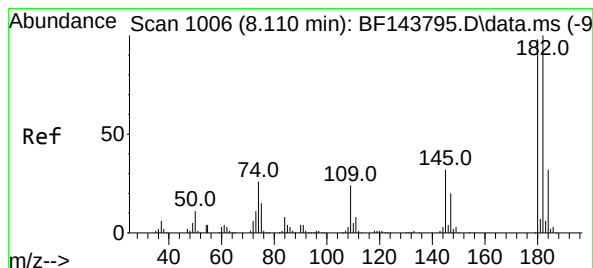
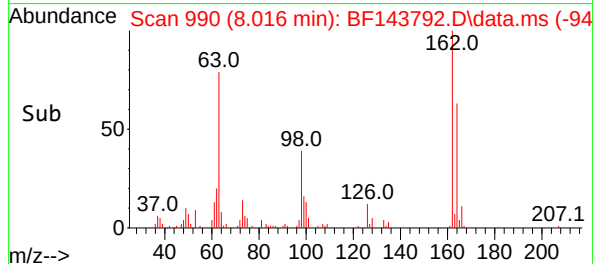
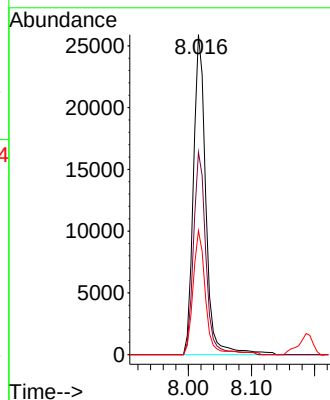
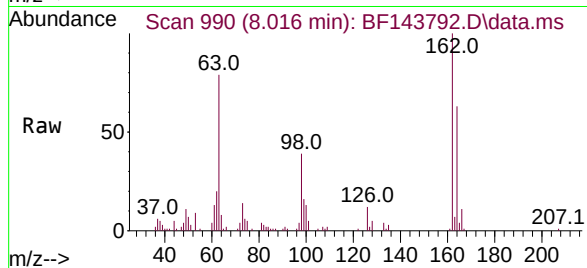
Tgt Ion:162 Resp: 35586

Ion Ratio Lower Upper

162 100

164 63.3 44.1 84.1

98 38.7 15.8 55.8



#30

1,2,4-Trichlorobenzene

Concen: 5.403 ng

RT: 8.110 min Scan# 1006

Delta R.T. -0.000 min

Lab File: BF143792.D

Acq: 23 Sep 2025 10:58

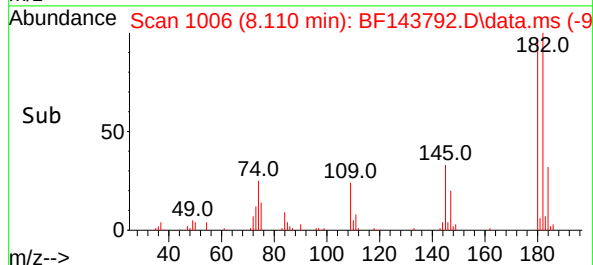
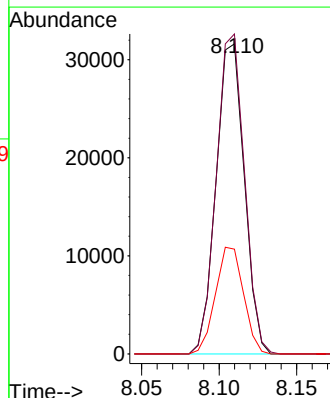
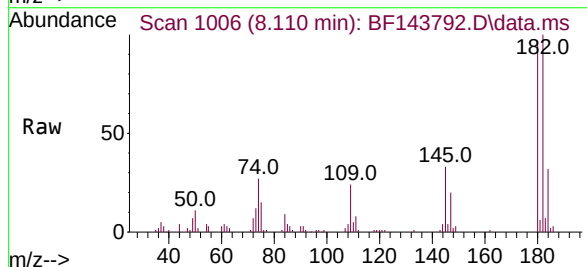
Tgt Ion:180 Resp: 40333

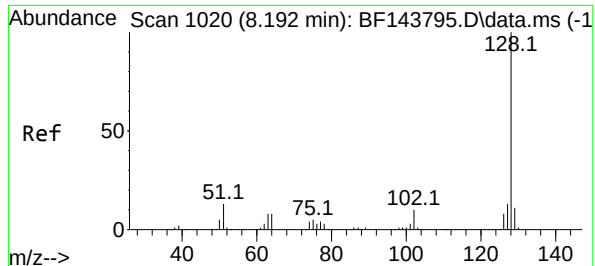
Ion Ratio Lower Upper

180 100

182 103.2 82.0 123.0

145 33.8 25.9 38.9





#31

Naphthalene

Concen: 5.523 ng

RT: 8.186 min Scan# 1019

Delta R.T. -0.006 min

Lab File: BF143792.D

Acq: 23 Sep 2025 10:58

Instrument :

BNA\_F

ClientSampleId :

SSTDICC005

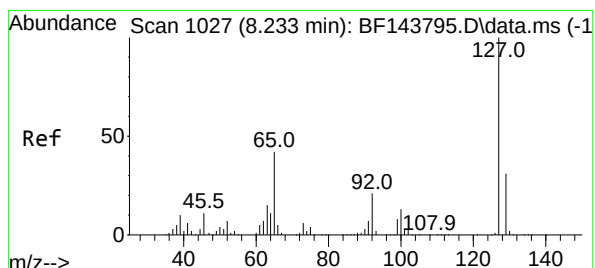
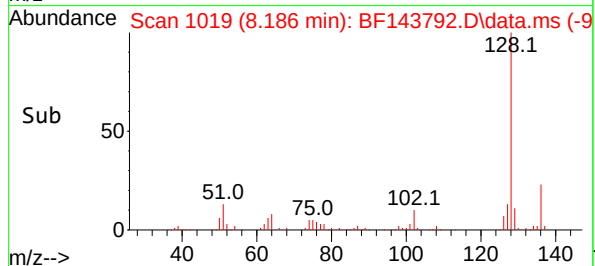
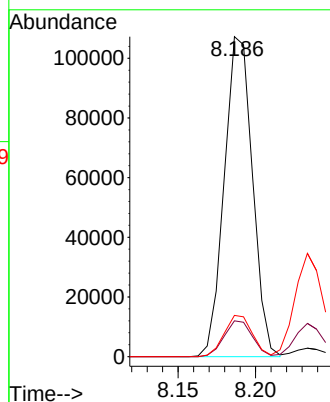
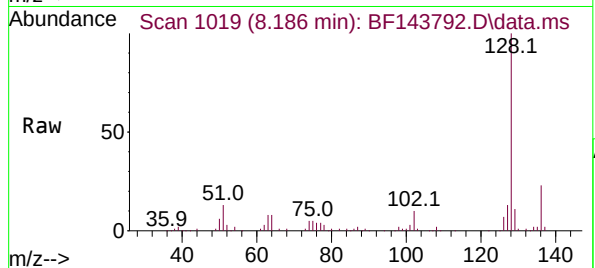
Tgt Ion:128 Resp: 135838

Ion Ratio Lower Upper

128 100

129 11.2 8.8 13.2

127 12.9 10.2 15.4



#33

4-Chloroaniline

Concen: 5.345 ng

RT: 8.233 min Scan# 1027

Delta R.T. -0.006 min

Lab File: BF143792.D

Acq: 23 Sep 2025 10:58

Tgt Ion:127 Resp: 46191

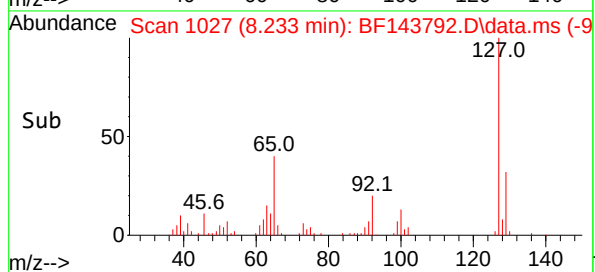
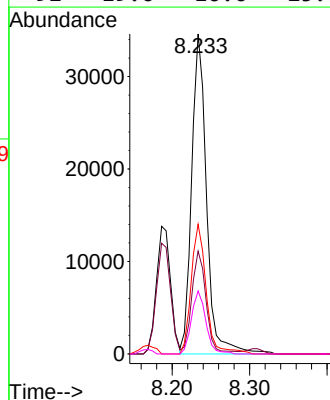
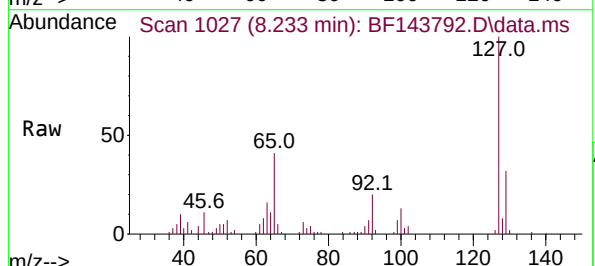
Ion Ratio Lower Upper

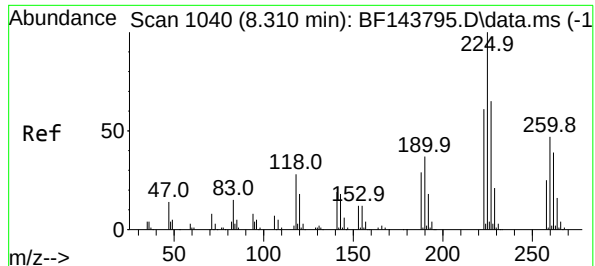
127 100

129 32.1 25.4 38.2

65 40.5 33.4 50.2

92 19.6 16.6 25.0





#34

Hexachlorobutadiene

Concen: 5.245 ng

RT: 8.310 min Scan# 1107

Delta R.T. -0.000 min

Lab File: BF143792.D

Acq: 23 Sep 2025 10:58

Instrument :

BNA\_F

ClientSampleId :

SSTDICC005

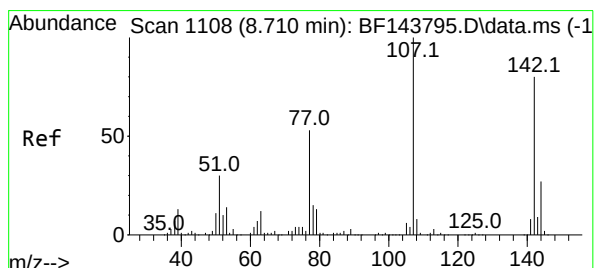
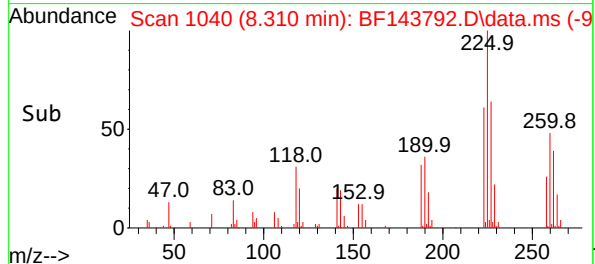
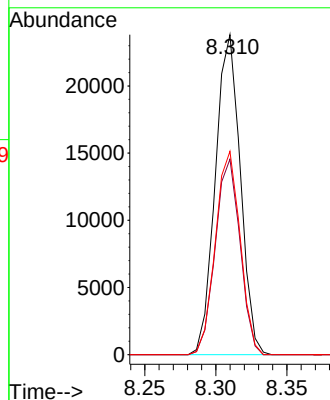
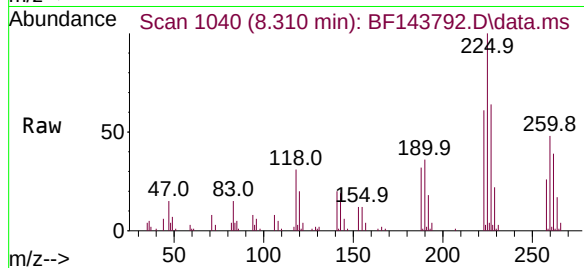
Tgt Ion:225 Resp: 29187

Ion Ratio Lower Upper

225 100

223 61.1 48.6 72.8

227 63.5 51.9 77.9



#36

4-Chloro-3-methylphenol

Concen: 5.152 ng

RT: 8.704 min Scan# 1107

Delta R.T. -0.006 min

Lab File: BF143792.D

Acq: 23 Sep 2025 10:58

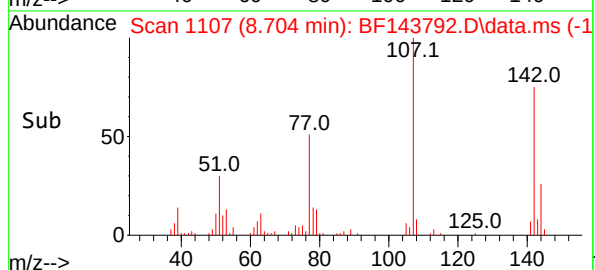
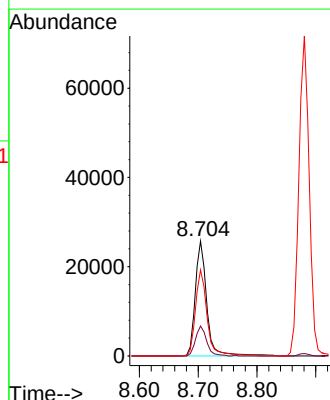
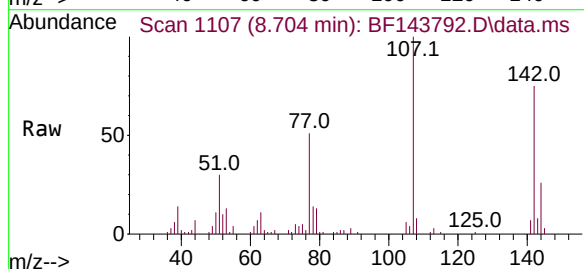
Tgt Ion:107 Resp: 34756

Ion Ratio Lower Upper

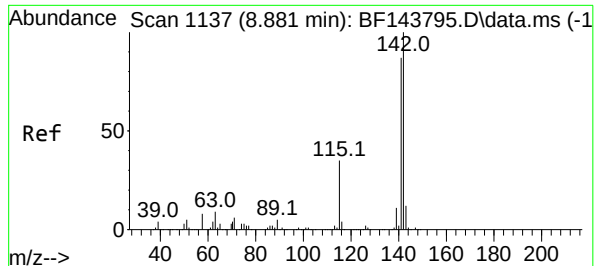
107 100

144 26.0 21.8 32.8

142 74.9 63.6 95.4







#37

2-Methylnaphthalene

Concen: 5.612 ng

RT: 8.880 min Scan# 1137

Delta R.T. -0.000 min

Lab File: BF143792.D

Acq: 23 Sep 2025 10:58

Instrument :

BNA\_F

ClientSampleId :

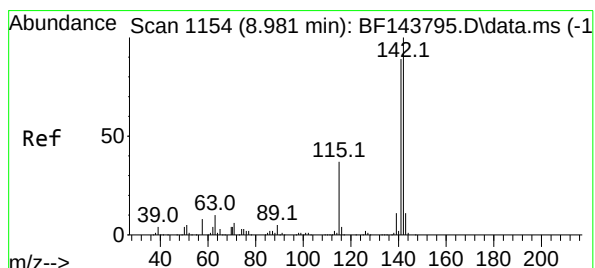
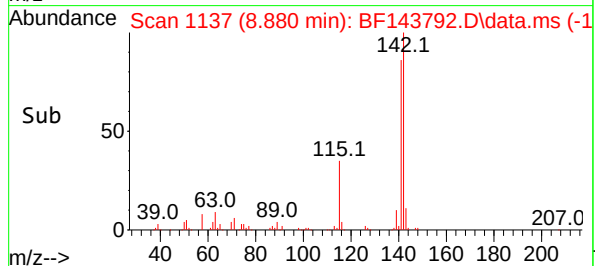
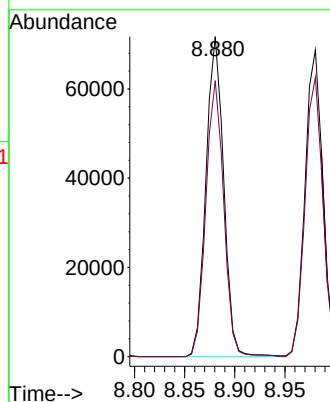
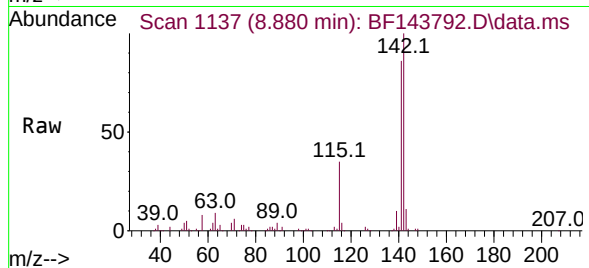
SSTDICC005

Tgt Ion:142 Resp: 88002

Ion Ratio Lower Upper

142 100

141 86.2 69.4 104.0



#38

1-Methylnaphthalene

Concen: 5.609 ng

RT: 8.980 min Scan# 1154

Delta R.T. -0.000 min

Lab File: BF143792.D

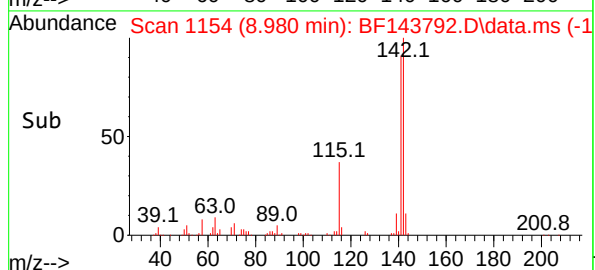
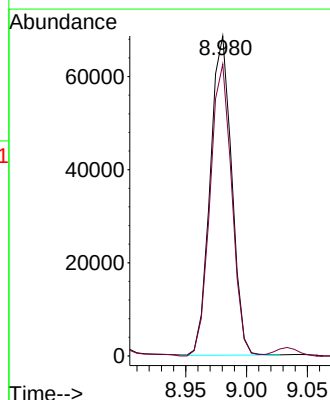
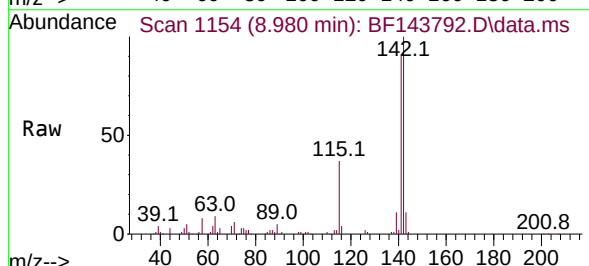
Acq: 23 Sep 2025 10:58

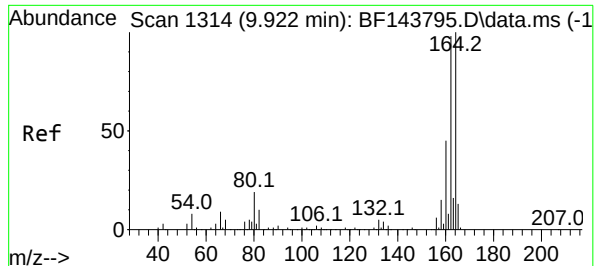
Tgt Ion:142 Resp: 84197

Ion Ratio Lower Upper

142 100

141 91.2 71.1 106.7





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.922 min Scan# 1314

Delta R.T. -0.006 min

Lab File: BF143792.D

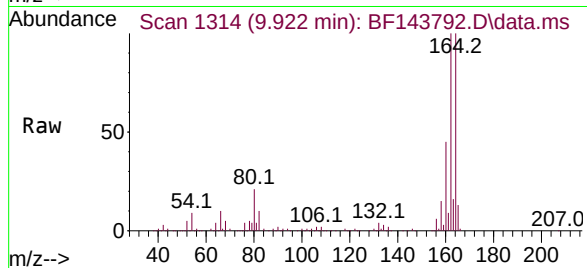
Acq: 23 Sep 2025 10:58

Instrument :

BNA\_F

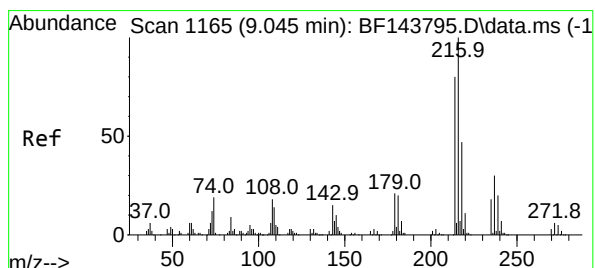
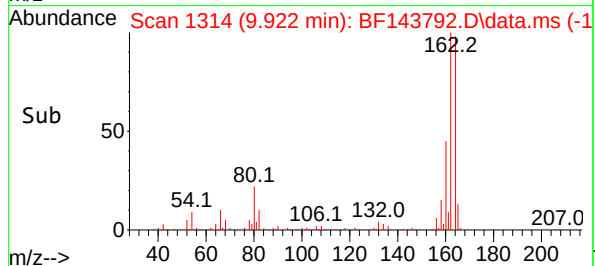
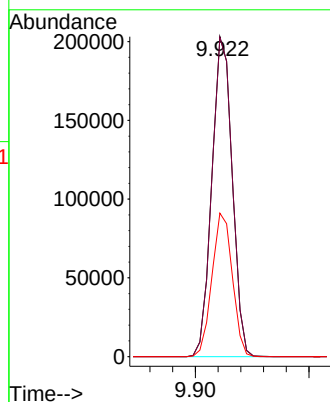
ClientSampleId :

SSTDICC005



Tgt Ion:164 Resp: 252917

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 162 | 99.7  | 78.8  | 118.2 |
| 160 | 44.8  | 35.8  | 53.6  |



#40

1,2,4,5-Tetrachlorobenzene

Concen: 5.441 ng

RT: 9.045 min Scan# 1165

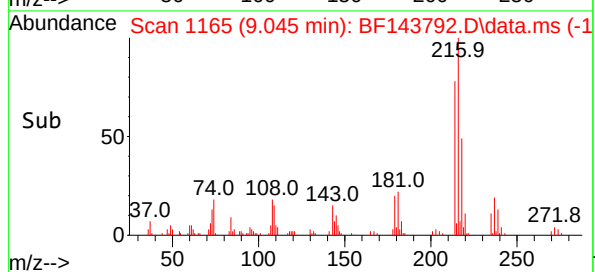
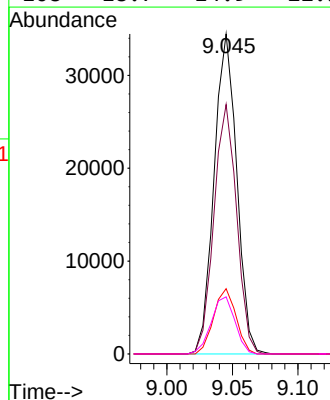
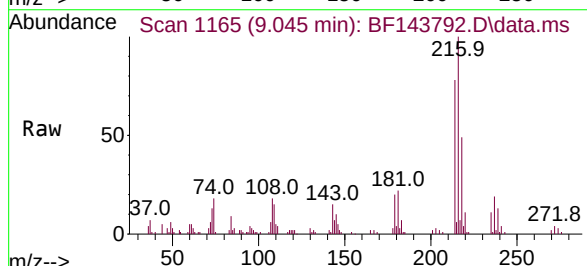
Delta R.T. -0.006 min

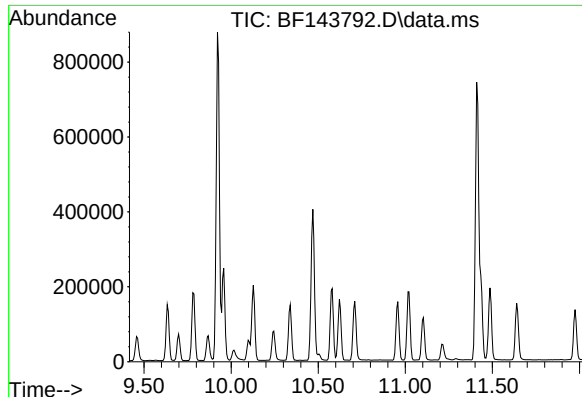
Lab File: BF143792.D

Acq: 23 Sep 2025 10:58

Tgt Ion:216 Resp: 41527

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 216 | 100   |       |       |
| 214 | 77.9  | 63.7  | 95.5  |
| 179 | 20.2  | 16.5  | 24.7  |
| 108 | 18.7  | 14.9  | 22.3  |

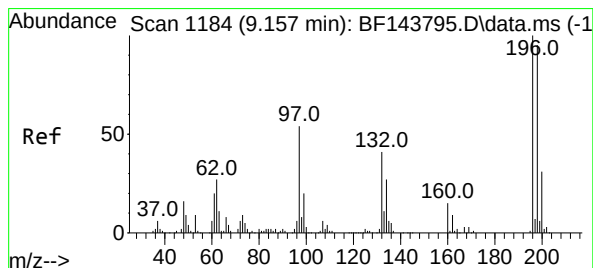
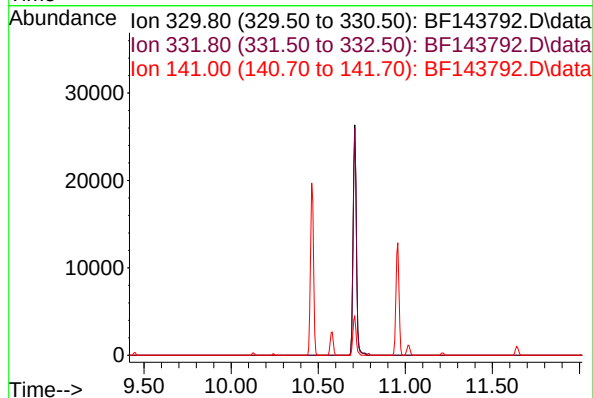




#42  
2,4,6-Tribromophenol  
Concen: 0.000 ng  
Expected RT: 10.72 min  
Lab File: BF143792.D  
Acq: 23 Sep 2025 10:58

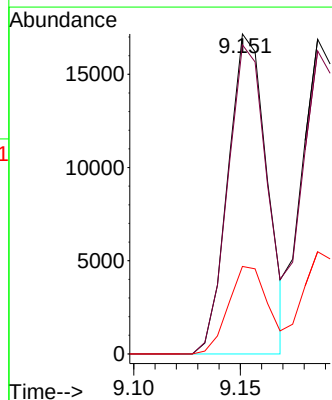
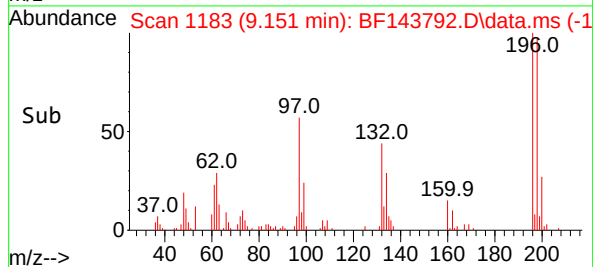
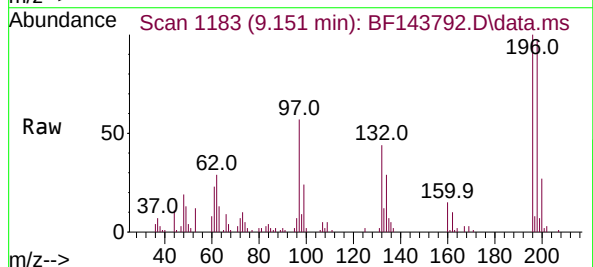
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC005

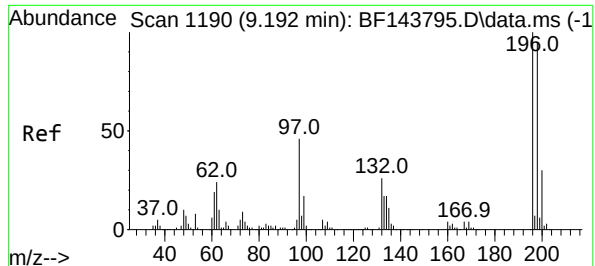
Tgt Ion: 330  
Sig Exp Ratio  
330 100  
332 93.4  
141 17.9



#43  
2,4,6-Trichlorophenol  
Concen: 4.555 ng  
RT: 9.151 min Scan# 1183  
Delta R.T. -0.006 min  
Lab File: BF143792.D  
Acq: 23 Sep 2025 10:58

Tgt Ion:196 Resp: 21768  
Ion Ratio Lower Upper  
196 100  
198 96.6 76.2 114.2  
200 27.3 24.7 37.1





#44

2,4,5-Trichlorophenol

Concen: 4.692 ng

RT: 9.186 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF143792.D

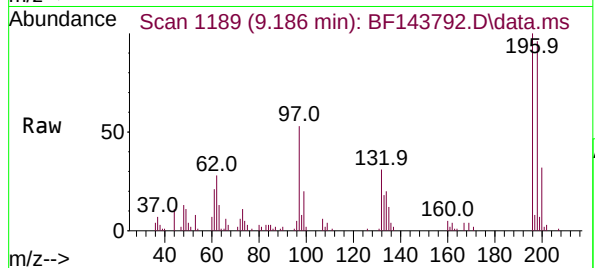
Acq: 23 Sep 2025 10:58

Instrument :

BNA\_F

ClientSampleId :

SSTDIC005



Tgt Ion:196 Resp: 23454

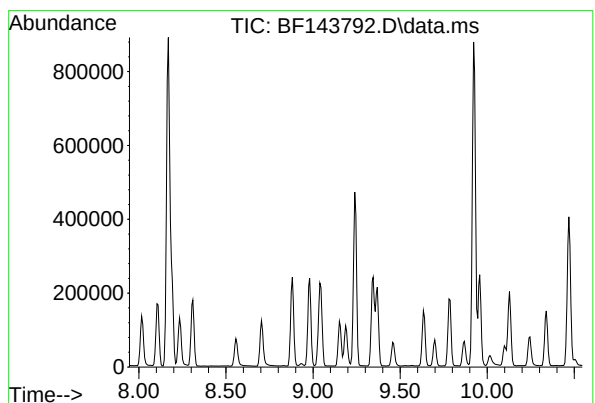
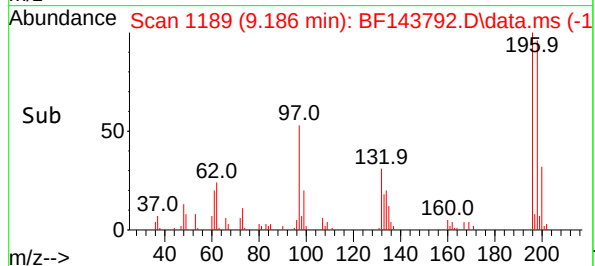
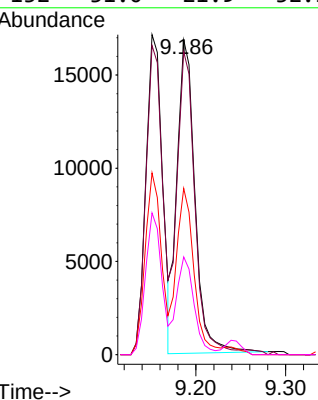
Ion Ratio Lower Upper

196 100

198 96.3 75.9 113.9

97 52.8 38.3 57.5

132 31.0 21.9 32.9



#45

2-Fluorobiphenyl

Concen: 0.000 ng

Expected RT: 9.25 min

Lab File: BF143792.D

Acq: 23 Sep 2025 10:58

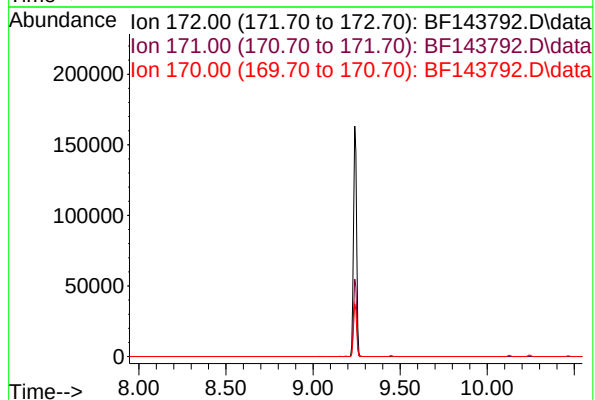
Tgt Ion: 172

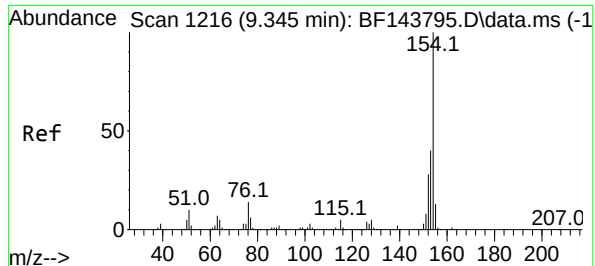
Sig Exp Ratio

172 100

171 34.9

170 23.9





#46

1,1'-Biphenyl

Concen: 5.552 ng

RT: 9.345 min Scan# 1216

Delta R.T. -0.000 min

Lab File: BF143792.D

Acq: 23 Sep 2025 10:58

Instrument :

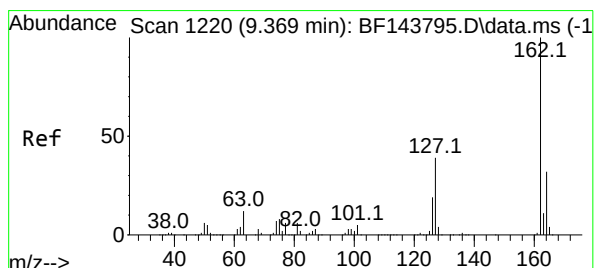
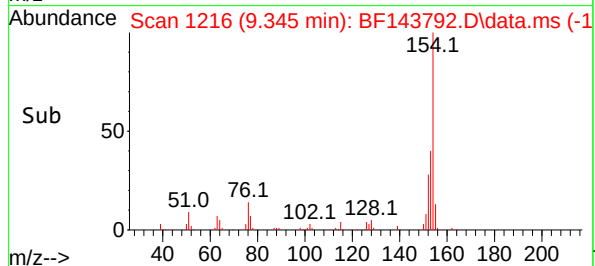
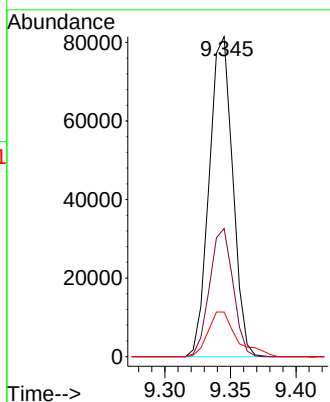
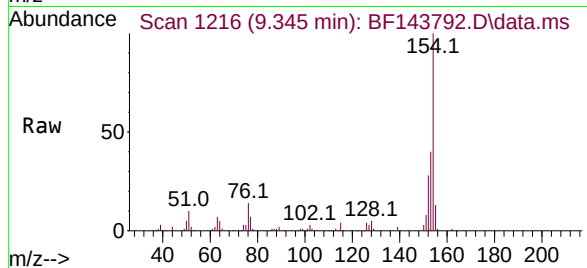
BNA\_F

ClientSampleId :

SSTDICC005

Tgt Ion:154 Resp: 101651

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 154 | 100   |       |       |
| 153 | 40.0  | 19.7  | 59.7  |
| 76  | 13.9  | 0.0   | 33.8  |



#47

2-Chloronaphthalene

Concen: 5.504 ng

RT: 9.369 min Scan# 1220

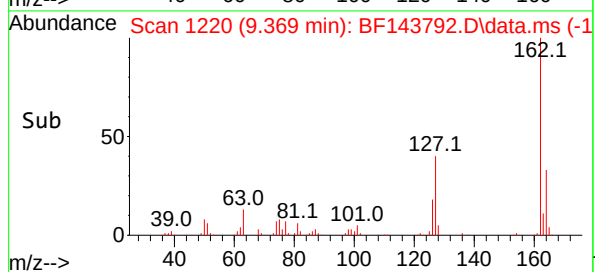
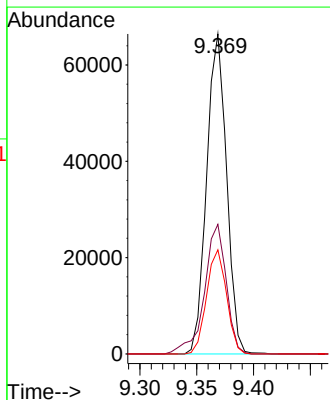
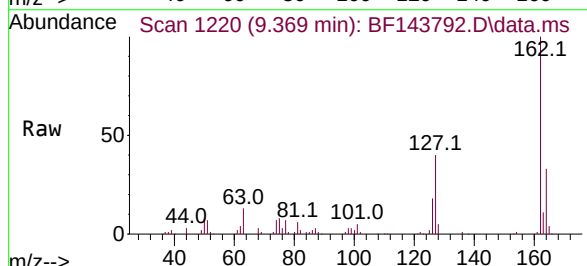
Delta R.T. -0.006 min

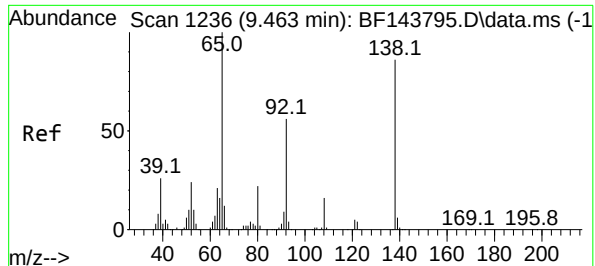
Lab File: BF143792.D

Acq: 23 Sep 2025 10:58

Tgt Ion:162 Resp: 81117

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 162 | 100   |       |       |
| 127 | 40.5  | 31.5  | 47.3  |
| 164 | 32.5  | 25.9  | 38.9  |





#48

2-Nitroaniline

Concen: 3.427 ng

RT: 9.457 min Scan# 1235

Delta R.T. -0.006 min

Lab File: BF143792.D

Acq: 23 Sep 2025 10:58

Instrument :

BNA\_F

ClientSampleId :

SSTDICC005

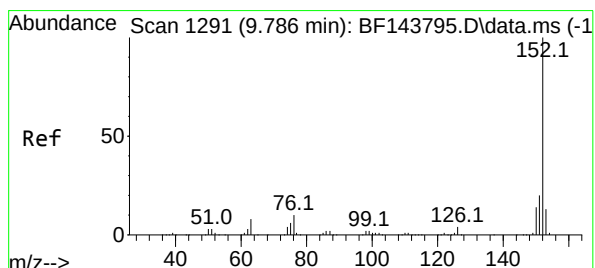
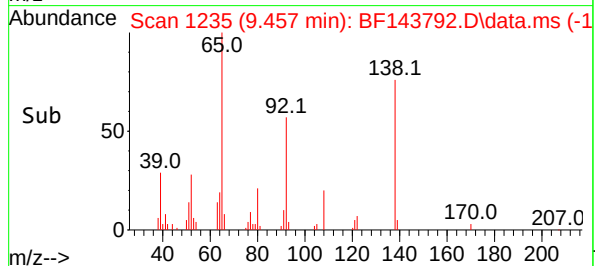
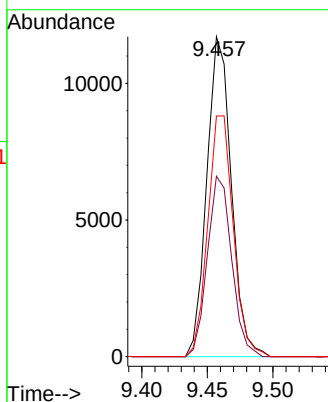
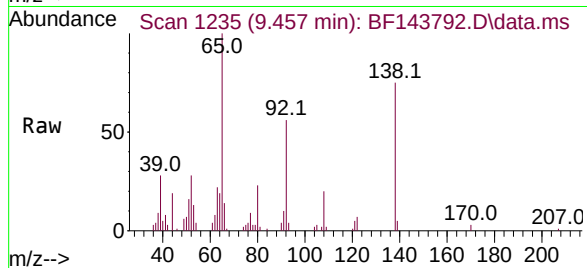
Tgt Ion: 65 Resp: 15262

Ion Ratio Lower Upper

65 100

92 56.4 44.9 67.3

138 75.2 69.0 103.4



#49

Acenaphthylene

Concen: 5.389 ng

RT: 9.786 min Scan# 1291

Delta R.T. -0.000 min

Lab File: BF143792.D

Acq: 23 Sep 2025 10:58

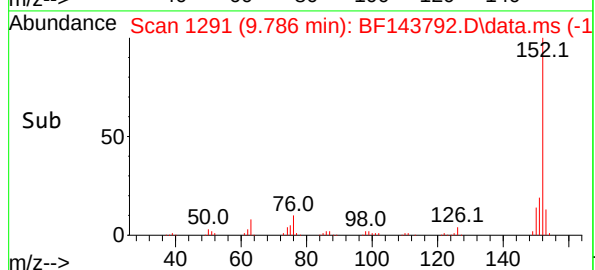
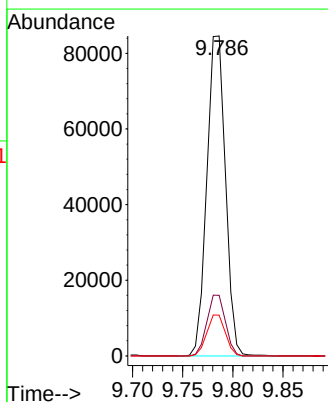
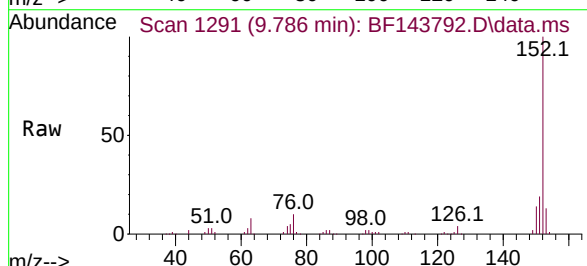
Tgt Ion: 152 Resp: 109327

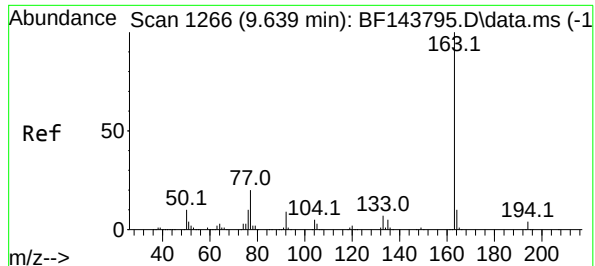
Ion Ratio Lower Upper

152 100

151 18.9 15.7 23.5

153 12.7 10.6 15.8

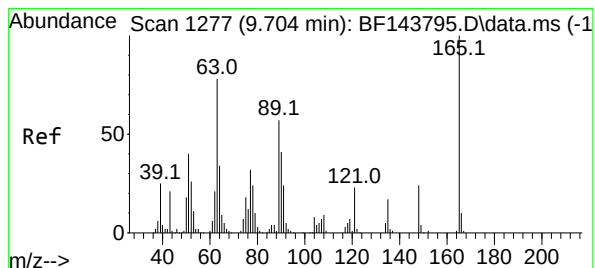
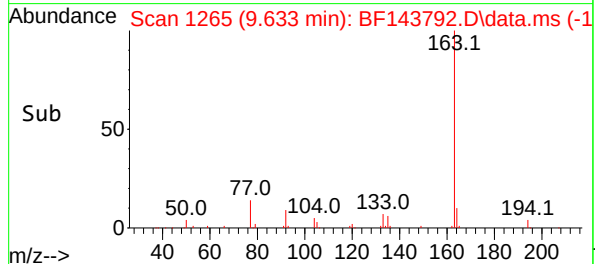
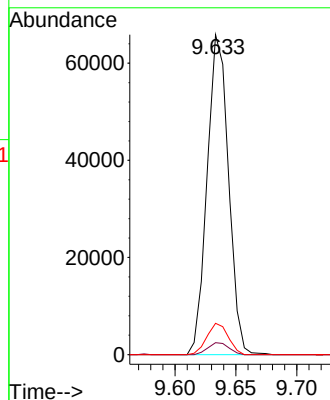
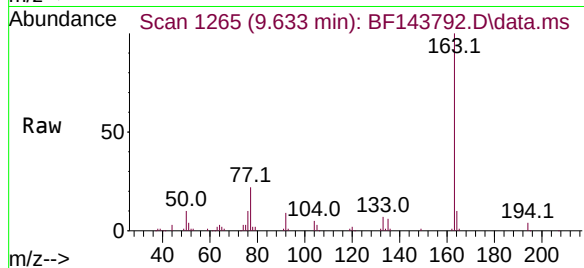




#50  
Dimethylphthalate  
Concen: 5.229 ng  
RT: 9.633 min Scan# 1265  
Delta R.T. -0.006 min  
Lab File: BF143792.D  
Acq: 23 Sep 2025 10:58

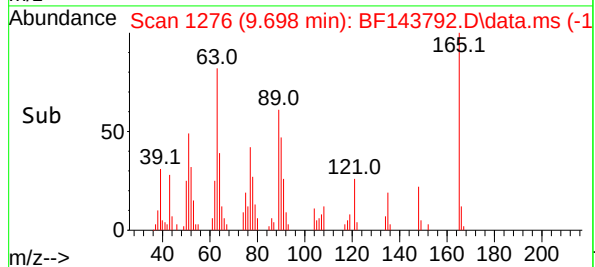
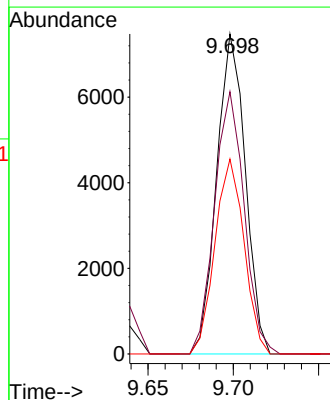
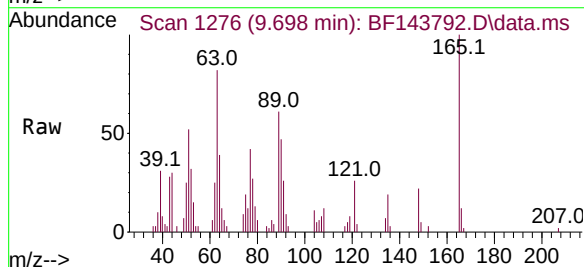
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC005

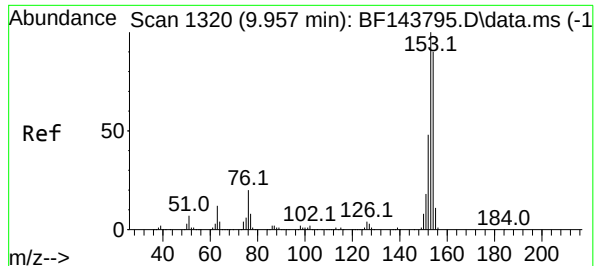
Tgt Ion:163 Resp: 80614  
Ion Ratio Lower Upper  
163 100  
194 3.7 3.0 4.6  
164 9.8 8.2 12.2



#51  
2,6-Dinitrotoluene  
Concen: 3.452 ng  
RT: 9.698 min Scan# 1276  
Delta R.T. -0.006 min  
Lab File: BF143792.D  
Acq: 23 Sep 2025 10:58

Tgt Ion:165 Resp: 8744  
Ion Ratio Lower Upper  
165 100  
63 81.9 62.6 94.0  
89 60.9 45.2 67.8





#52

Acenaphthene

Concen: 5.372 ng

RT: 9.957 min Scan# 1320

Delta R.T. -0.006 min

Lab File: BF143792.D

Acq: 23 Sep 2025 10:58

Instrument :

BNA\_F

ClientSampleId :

SSTDICC005

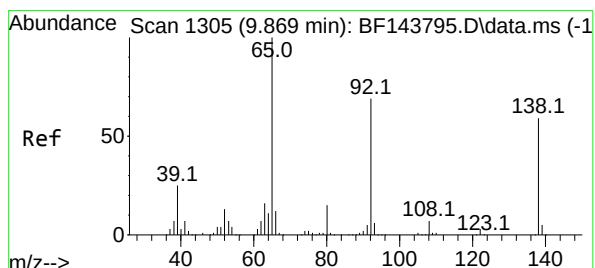
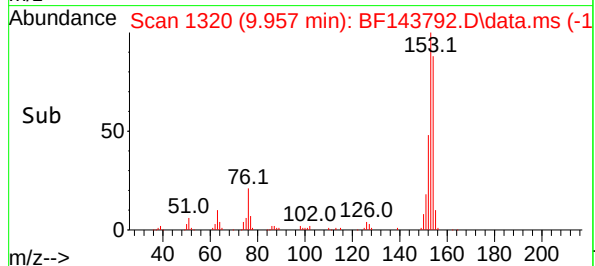
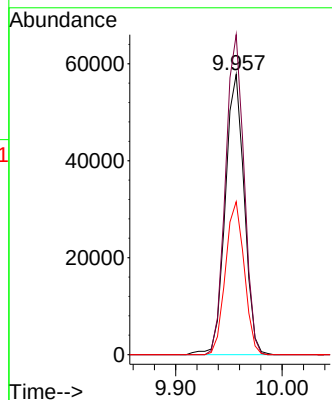
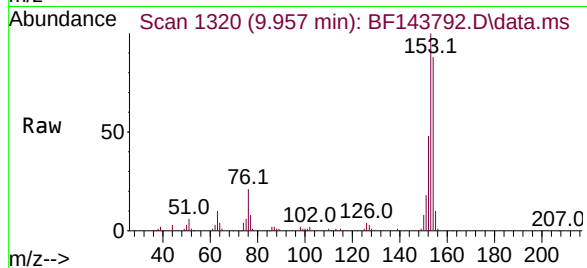
Tgt Ion:154 Resp: 71713

Ion Ratio Lower Upper

154 100

153 114.2 88.7 133.1

152 54.6 42.7 64.1



#53

3-Nitroaniline

Concen: 3.526 ng

RT: 9.869 min Scan# 1305

Delta R.T. -0.006 min

Lab File: BF143792.D

Acq: 23 Sep 2025 10:58

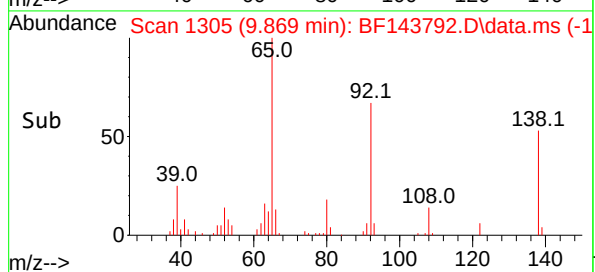
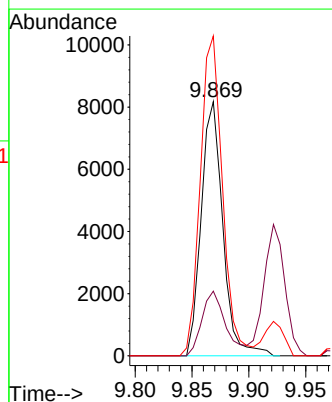
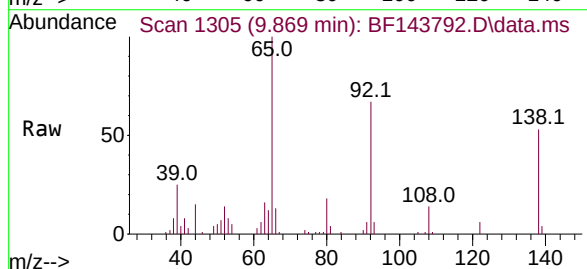
Tgt Ion:138 Resp: 10825

Ion Ratio Lower Upper

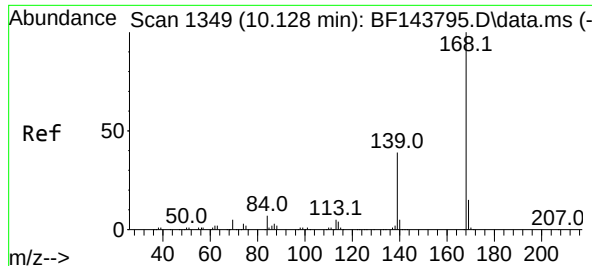
138 100

108 25.4 9.9 14.9#

92 125.9 93.5 140.3







#55

Dibenzenofuran

Concen: 5.524 ng

RT: 10.127 min Scan# 1349

Delta R.T. -0.006 min

Lab File: BF143792.D

Acq: 23 Sep 2025 10:58

Instrument :

BNA\_F

ClientSampleId :

SSTDICC005

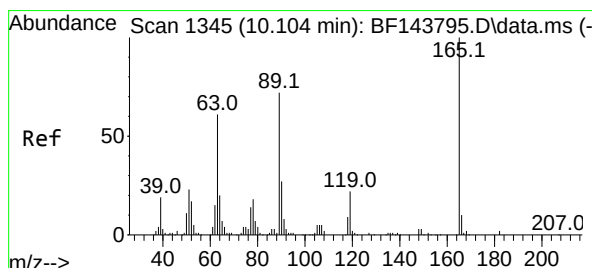
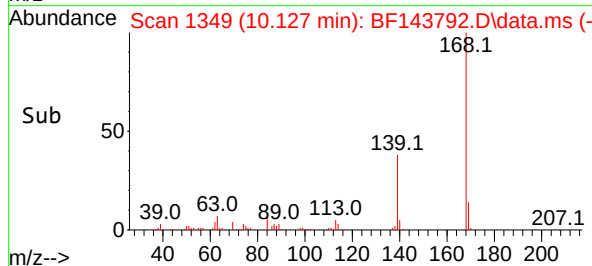
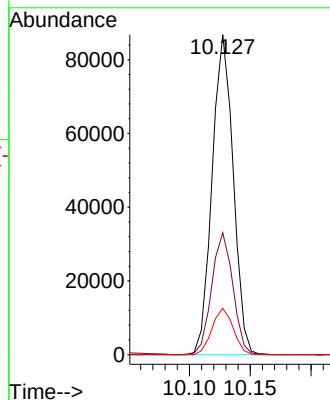
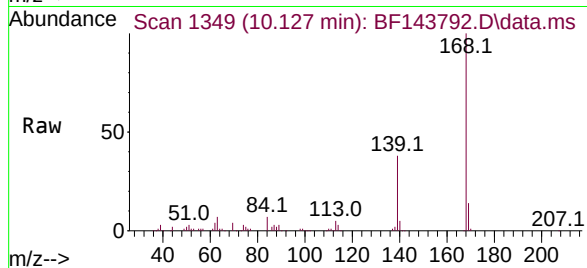
Tgt Ion:168 Resp: 104283

Ion Ratio Lower Upper

168 100

139 38.1 31.0 46.6

169 14.5 11.9 17.9



#57

2,4-Dinitrotoluene

Concen: 5.298 ng

RT: 10.098 min Scan# 1344

Delta R.T. -0.012 min

Lab File: BF143792.D

Acq: 23 Sep 2025 10:58

Tgt Ion:165 Resp: 9518

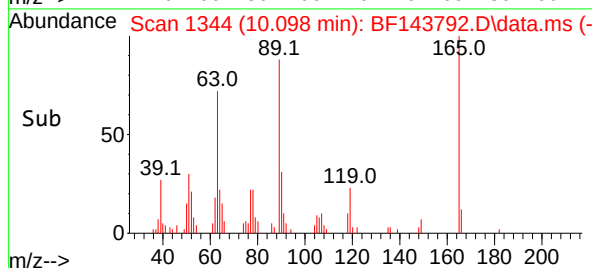
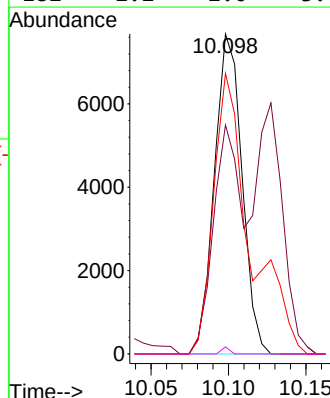
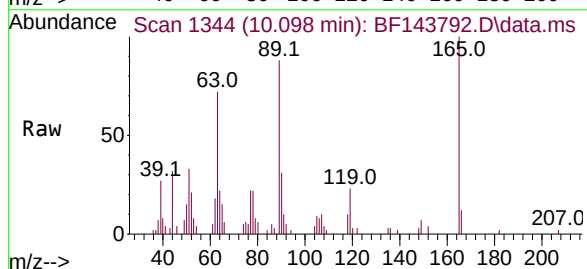
Ion Ratio Lower Upper

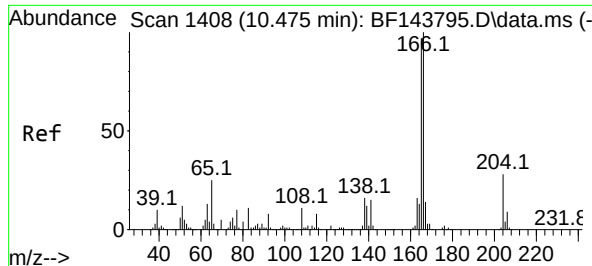
165 100

63 71.5 48.9 73.3

89 87.7 57.5 86.3#

182 2.2 2.0 3.0

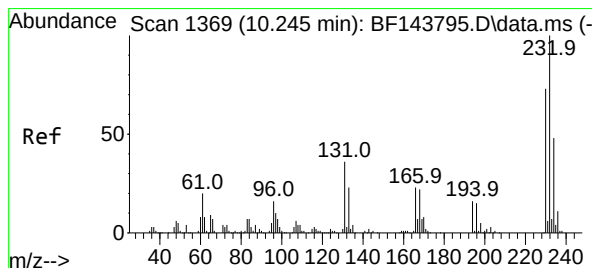
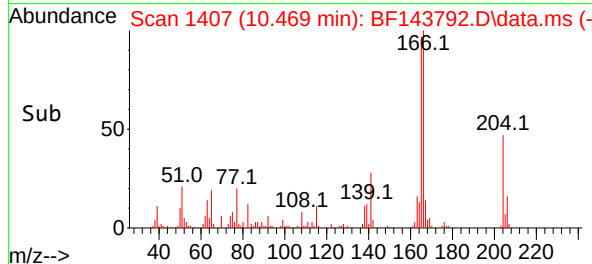
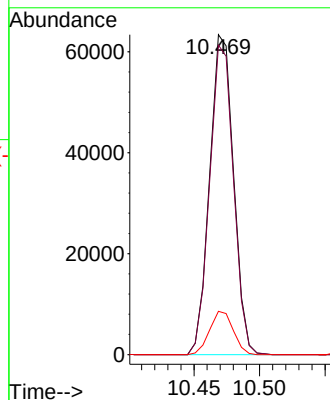
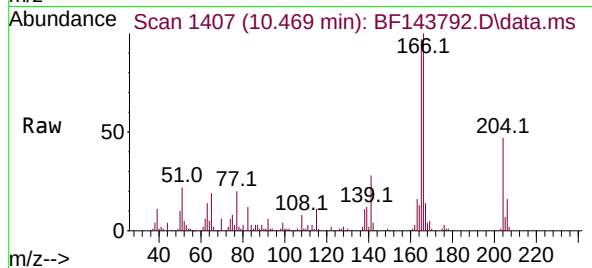




#58  
Fluorene  
Concen: 5.745 ng  
RT: 10.469 min Scan# 1408  
Delta R.T. -0.006 min  
Lab File: BF143792.D  
Acq: 23 Sep 2025 10:58

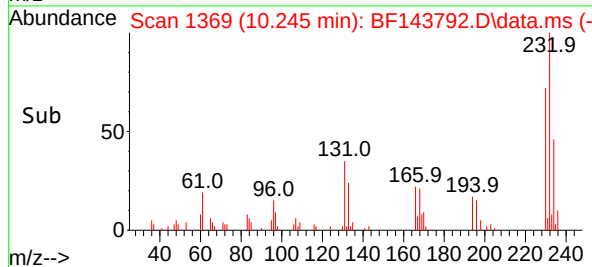
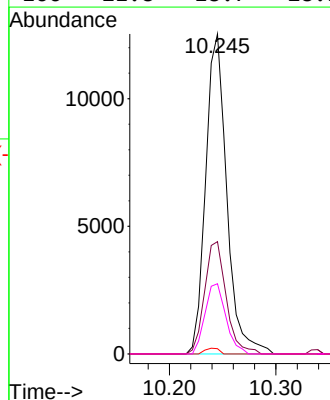
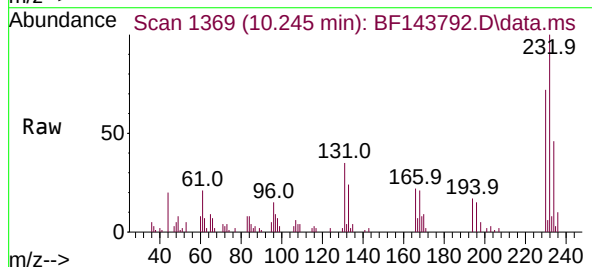
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC005

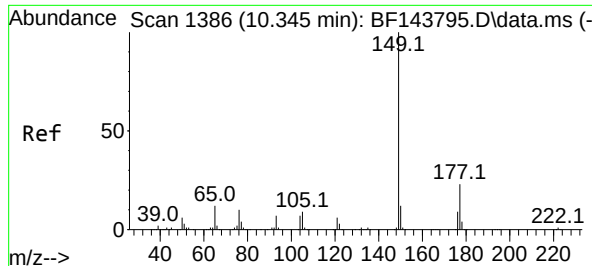
Tgt Ion:166 Resp: 80629  
Ion Ratio Lower Upper  
166 100  
165 96.7 78.0 117.0  
167 13.5 10.9 16.3



#59  
2,3,4,6-Tetrachlorophenol  
Concen: 4.017 ng  
RT: 10.245 min Scan# 1369  
Delta R.T. -0.000 min  
Lab File: BF143792.D  
Acq: 23 Sep 2025 10:58

Tgt Ion:232 Resp: 17203  
Ion Ratio Lower Upper  
232 100  
131 35.9 29.4 44.2  
130 1.2 1.3 1.9#  
166 21.8 18.7 28.1

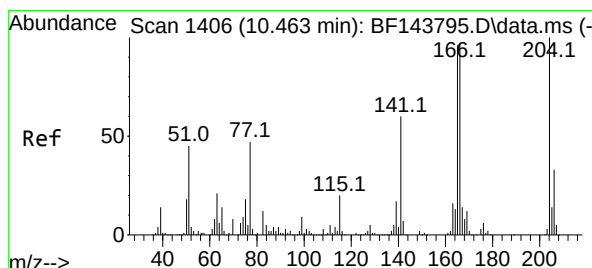
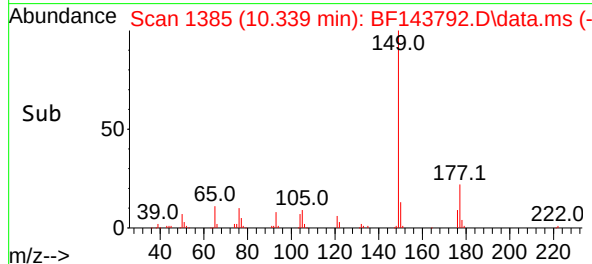
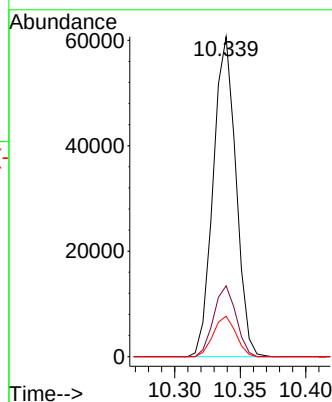
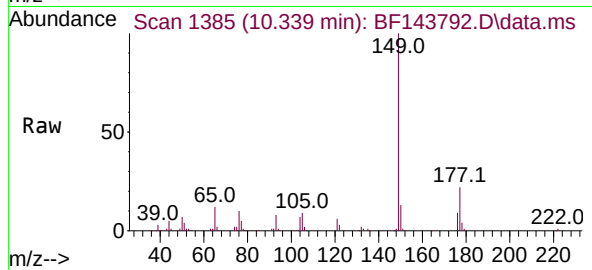




#60  
Diethylphthalate  
Concen: 5.076 ng  
RT: 10.339 min Scan# 1385  
Delta R.T. -0.006 min  
Lab File: BF143792.D  
Acq: 23 Sep 2025 10:58

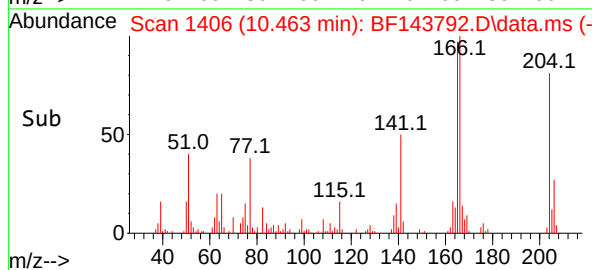
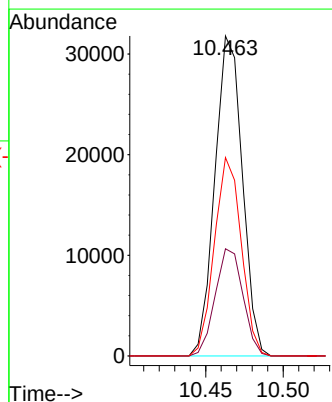
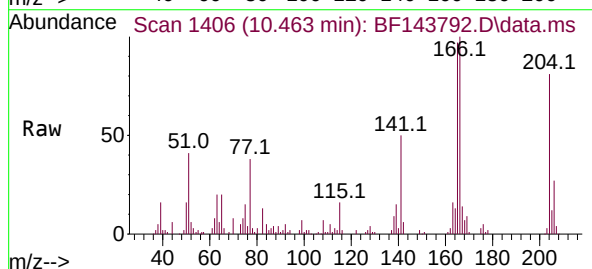
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC005

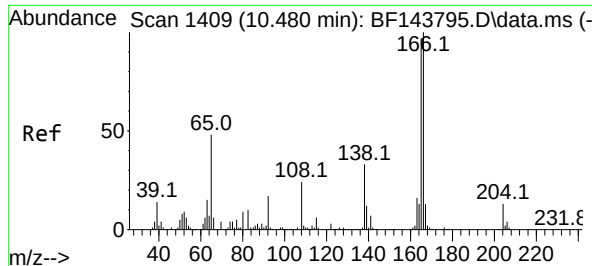
Tgt Ion:149 Resp: 73247  
Ion Ratio Lower Upper  
149 100  
177 22.1 18.1 27.1  
150 12.6 9.7 14.5



#61  
4-Chlorophenyl-phenylether  
Concen: 5.487 ng  
RT: 10.463 min Scan# 1406  
Delta R.T. -0.006 min  
Lab File: BF143792.D  
Acq: 23 Sep 2025 10:58

Tgt Ion:204 Resp: 39239  
Ion Ratio Lower Upper  
204 100  
206 33.5 26.7 40.1  
141 62.0 48.2 72.2

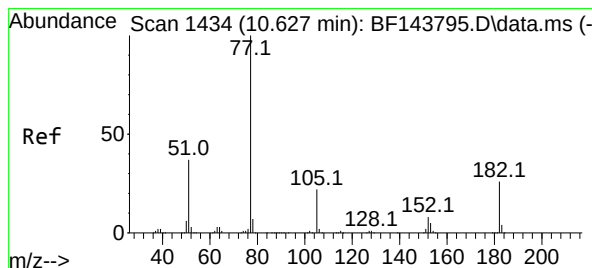
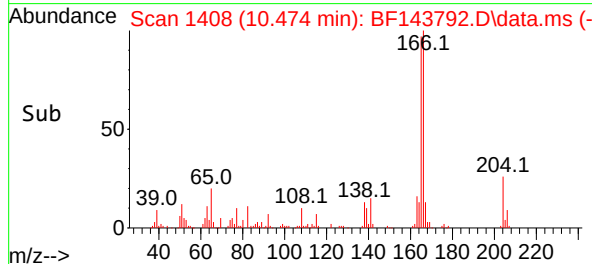
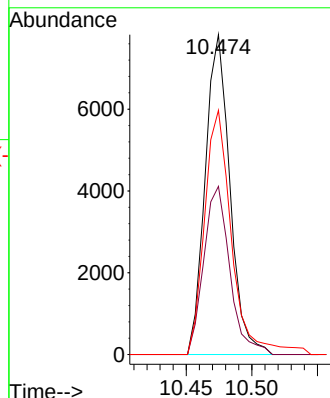
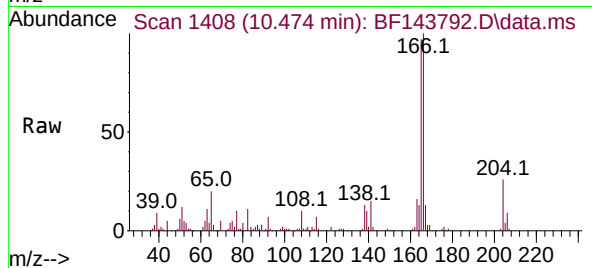




#62  
4-Nitroaniline  
Concen: 3.554 ng  
RT: 10.474 min Scan# 1408  
Delta R.T. -0.018 min  
Lab File: BF143792.D  
Acq: 23 Sep 2025 10:58

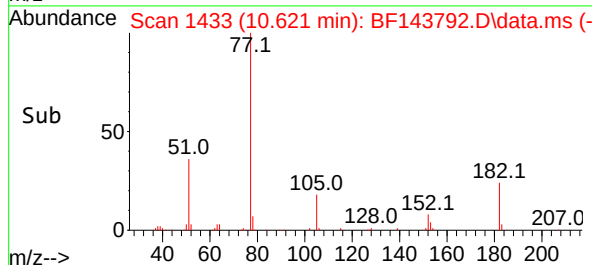
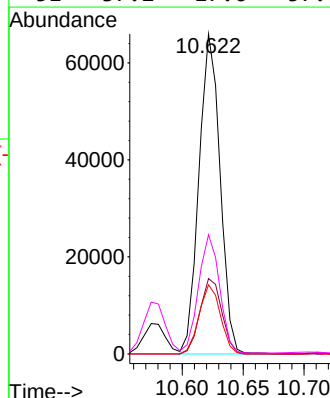
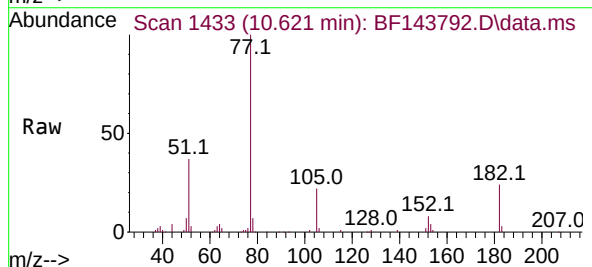
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC005

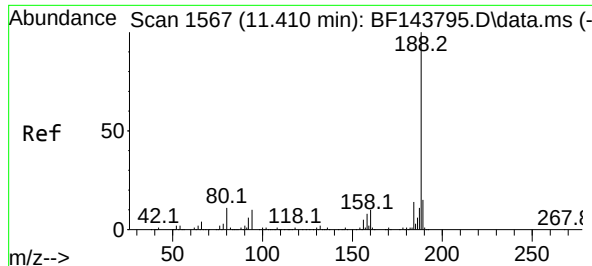
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 138     | 100   |       |       |
| 92      | 52.6  | 31.5  | 71.5  |
| 108     | 76.3  | 51.9  | 91.9  |



#63  
Azobenzene  
Concen: 5.240 ng  
RT: 10.621 min Scan# 1433  
Delta R.T. -0.006 min  
Lab File: BF143792.D  
Acq: 23 Sep 2025 10:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 77      | 100   |       |       |
| 182     | 23.5  | 5.9   | 45.9  |
| 105     | 21.6  | 2.3   | 42.3  |
| 51      | 37.2  | 17.6  | 57.6  |

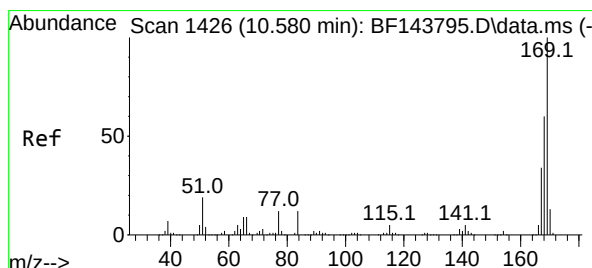
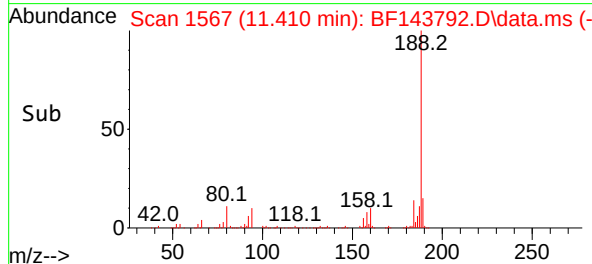
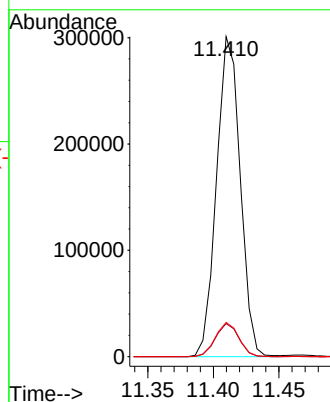
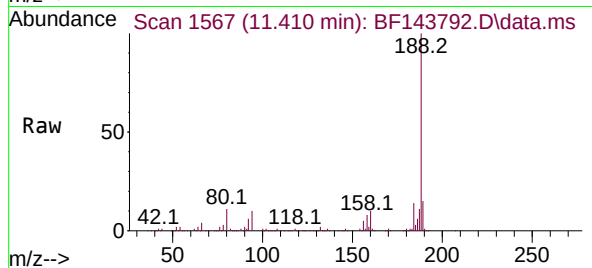




#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.410 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: BF143792.D  
Acq: 23 Sep 2025 10:58

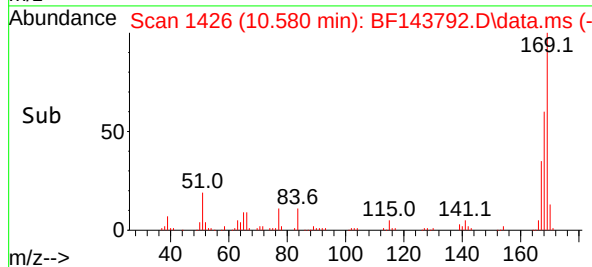
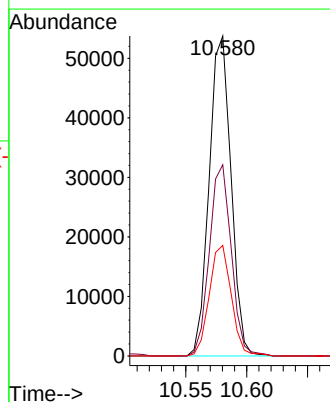
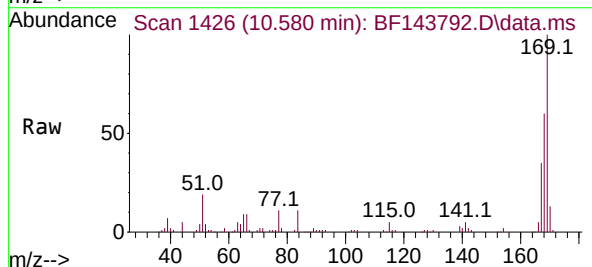
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC005

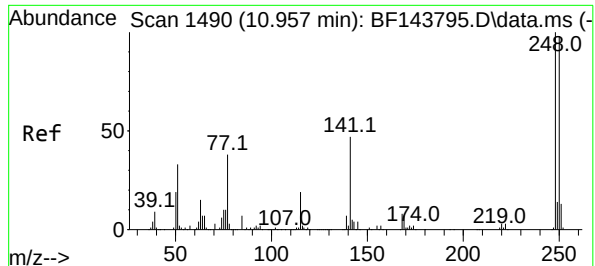
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 10.3  | 8.2   | 12.2  |
| 80      | 10.7  | 8.6   | 12.8  |



#66  
n-Nitrosodiphenylamine  
Concen: 5.378 ng  
RT: 10.580 min Scan# 1426  
Delta R.T. -0.006 min  
Lab File: BF143792.D  
Acq: 23 Sep 2025 10:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 169     | 100   |       |       |
| 168     | 59.7  | 47.9  | 71.9  |
| 167     | 34.5  | 27.0  | 40.6  |

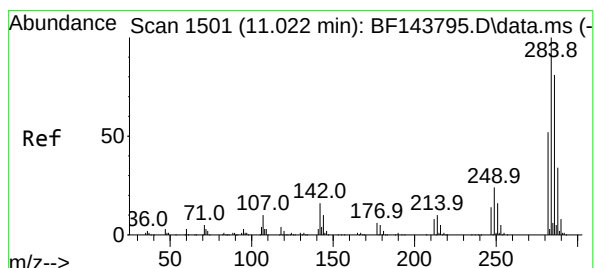
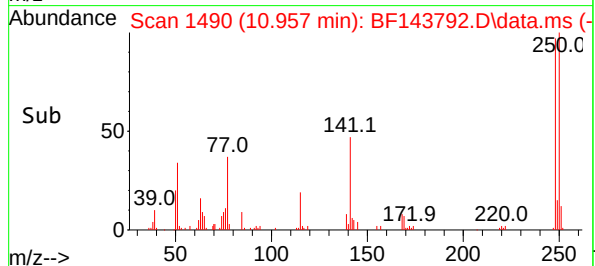
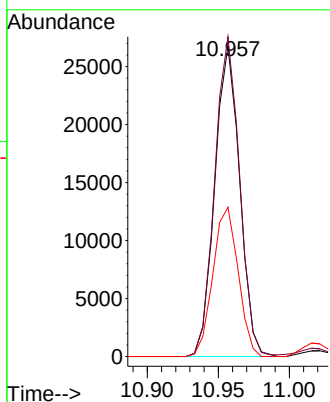
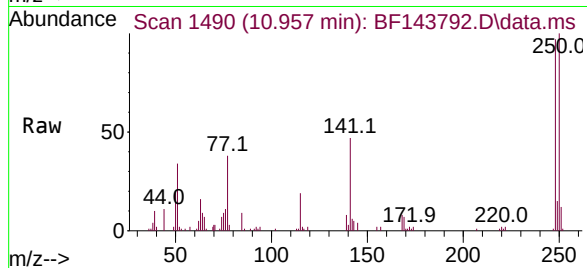




#67  
4-Bromophenyl-phenylether  
Concen: 5.047 ng  
RT: 10.957 min Scan# 1490  
Delta R.T. -0.000 min  
Lab File: BF143792.D  
Acq: 23 Sep 2025 10:58

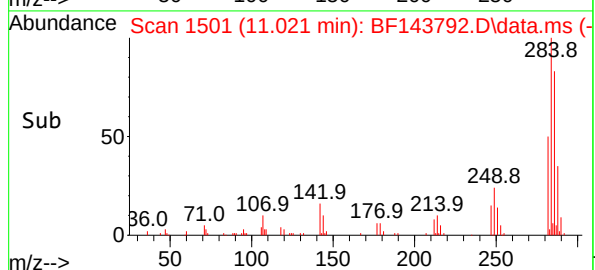
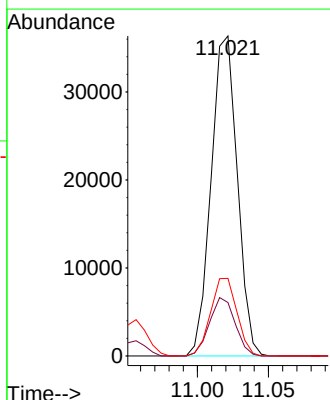
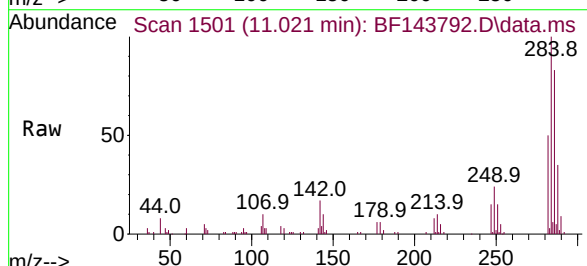
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC005

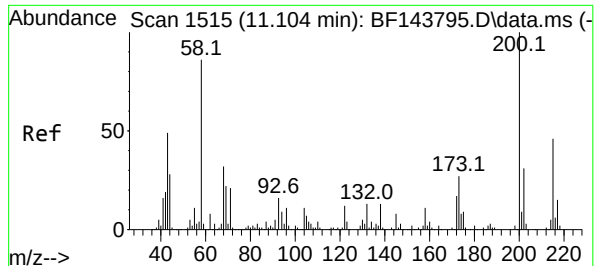
Tgt Ion:248 Resp: 32607  
Ion Ratio Lower Upper  
248 100  
250 103.0 78.7 118.1  
141 48.1 37.9 56.9



#68  
Hexachlorobenzene  
Concen: 5.238 ng  
RT: 11.021 min Scan# 1501  
Delta R.T. -0.000 min  
Lab File: BF143792.D  
Acq: 23 Sep 2025 10:58

Tgt Ion:284 Resp: 46642  
Ion Ratio Lower Upper  
284 100  
142 16.7 13.1 19.7  
249 24.2 19.5 29.3





#69

Atrazine

Concen: 4.683 ng

RT: 11.104 min Scan# 1515

Delta R.T. -0.006 min

Lab File: BF143792.D

Acq: 23 Sep 2025 10:58

Instrument :

BNA\_F

ClientSampleId :

SSTDICC005

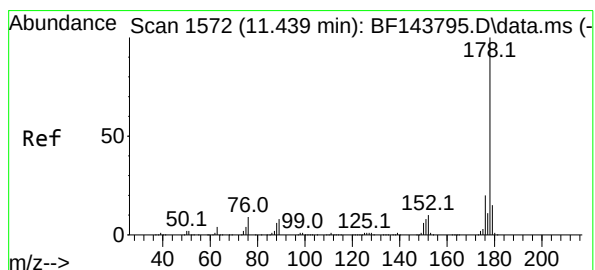
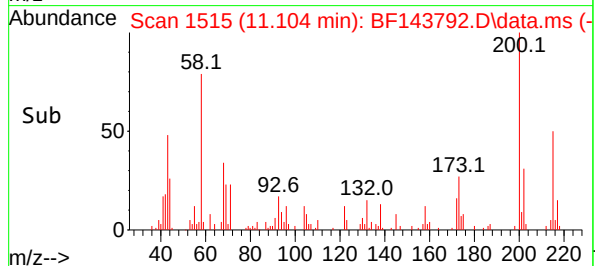
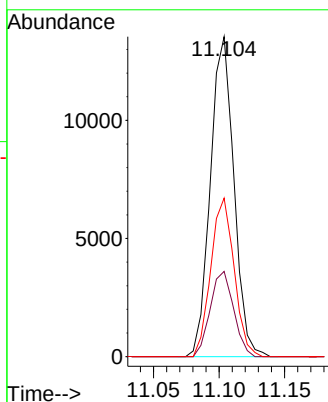
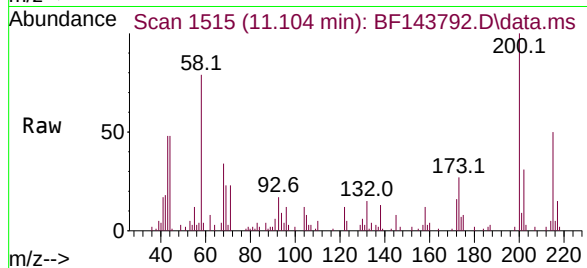
Tgt Ion:200 Resp: 16909

Ion Ratio Lower Upper

200 100

173 26.6 7.2 47.2

215 49.5 26.0 66.0



#71

Phenanthrene

Concen: 5.577 ng

RT: 11.433 min Scan# 1571

Delta R.T. -0.006 min

Lab File: BF143792.D

Acq: 23 Sep 2025 10:58

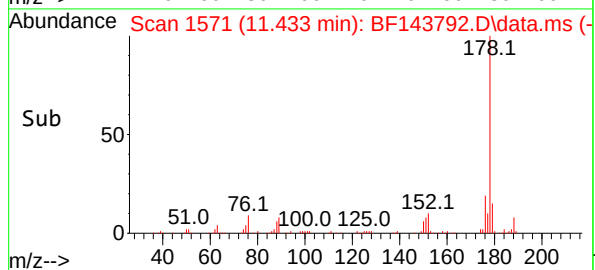
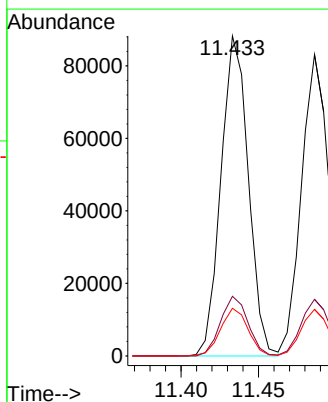
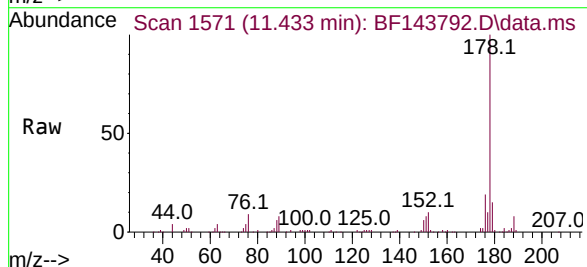
Tgt Ion:178 Resp: 108554

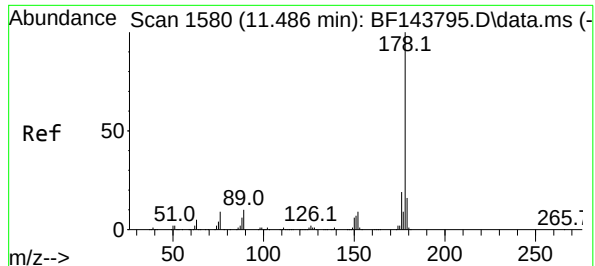
Ion Ratio Lower Upper

178 100

176 18.6 15.6 23.4

179 14.9 12.2 18.4

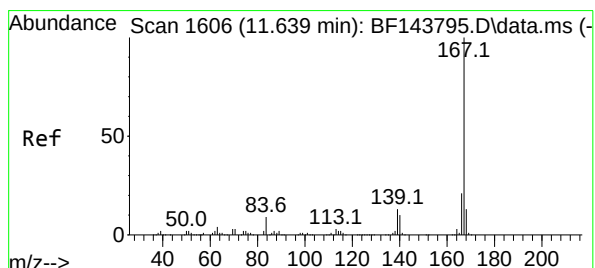
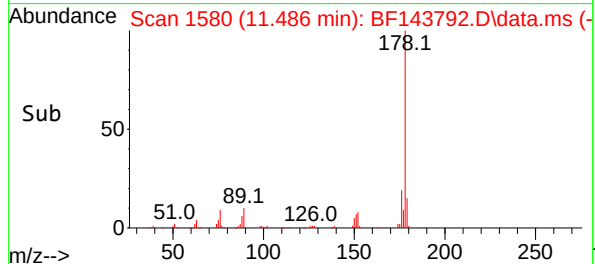
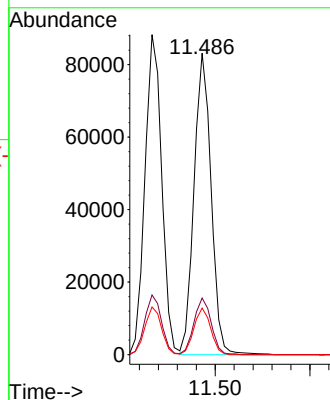
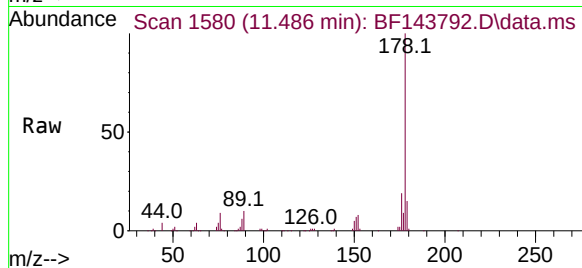




#72  
Anthracene  
Concen: 5.322 ng  
RT: 11.486 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: BF143792.D  
Acq: 23 Sep 2025 10:58

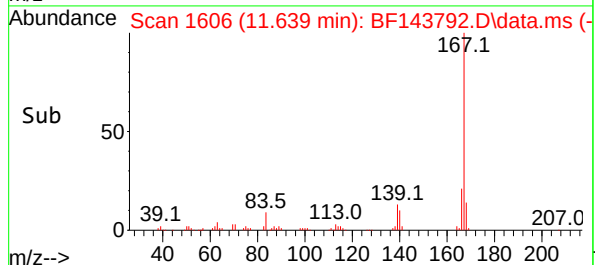
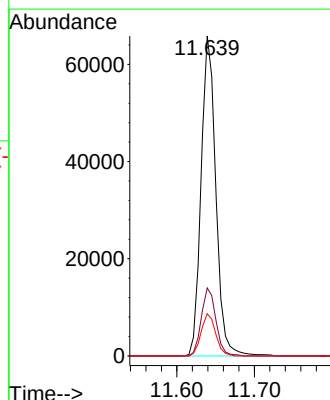
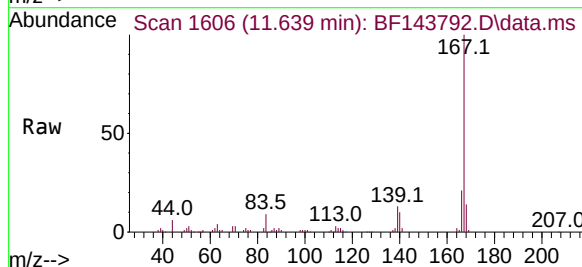
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC005

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.8  | 15.3  | 22.9  |
| 179     | 15.4  | 12.8  | 19.2  |

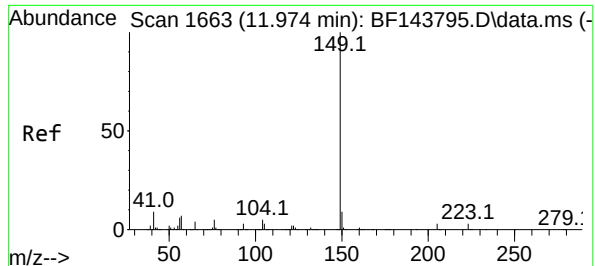


#73  
Carbazole  
Concen: 5.086 ng  
RT: 11.639 min Scan# 1606  
Delta R.T. -0.006 min  
Lab File: BF143792.D  
Acq: 23 Sep 2025 10:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 167     | 100   |       |       |
| 166     | 21.2  | 17.0  | 25.4  |
| 139     | 13.2  | 10.6  | 15.8  |



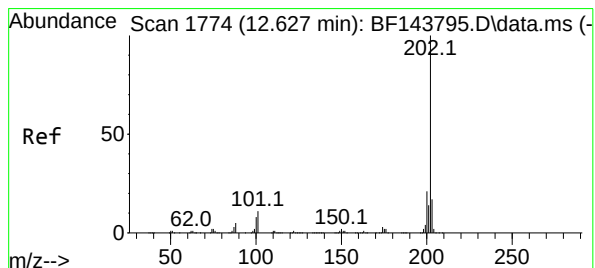
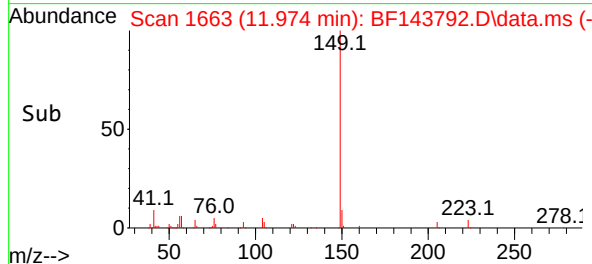
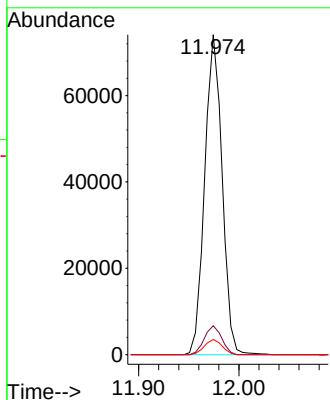
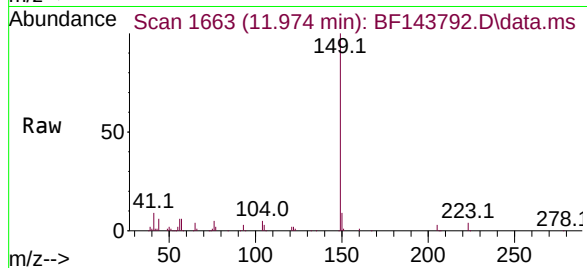




#74  
Di-n-butylphthalate  
Concen: 4.538 ng  
RT: 11.974 min Scan# 1663  
Delta R.T. -0.000 min  
Lab File: BF143792.D  
Acq: 23 Sep 2025 10:58

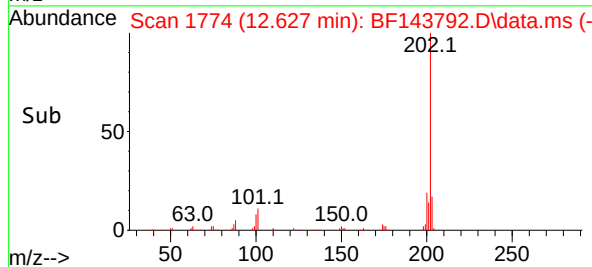
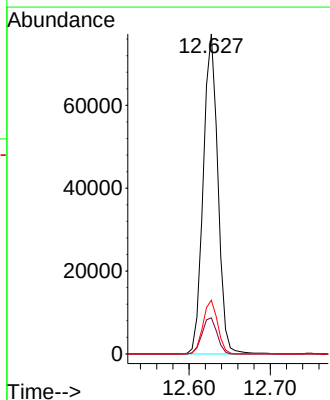
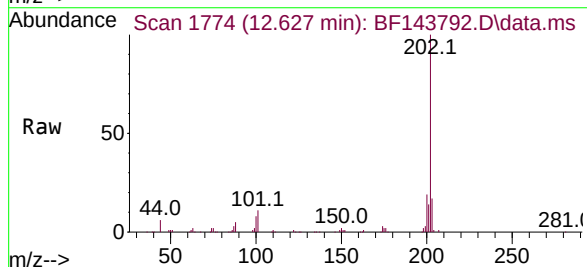
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC005

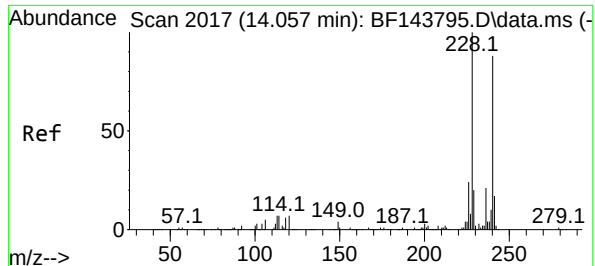
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 150     | 9.0   | 7.3   | 10.9  |
| 104     | 4.7   | 3.6   | 5.4   |



#75  
Fluoranthene  
Concen: 4.932 ng  
RT: 12.627 min Scan# 1774  
Delta R.T. -0.000 min  
Lab File: BF143792.D  
Acq: 23 Sep 2025 10:58

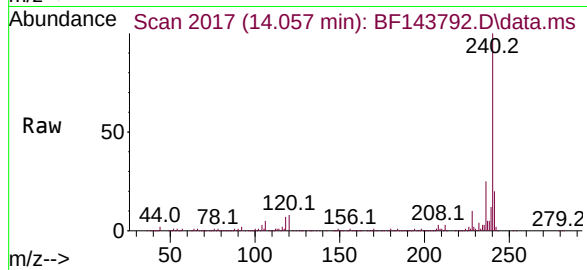
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 11.3  | 0.0   | 31.1  |
| 203     | 16.8  | 0.0   | 37.4  |



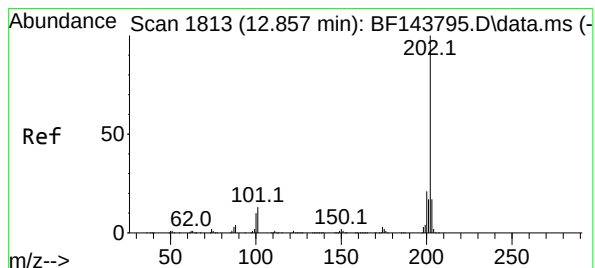
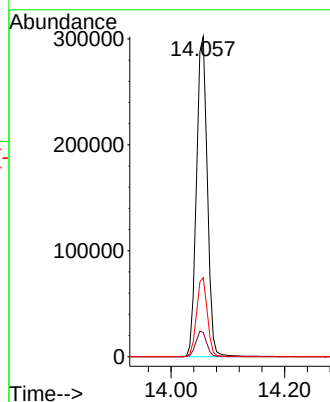
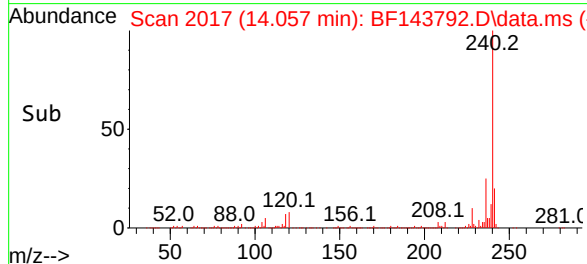


#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.057 min Scan# 2017  
Delta R.T. -0.006 min  
Lab File: BF143792.D  
Acq: 23 Sep 2025 10:58

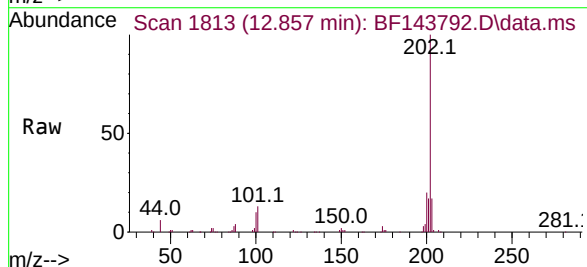
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC005



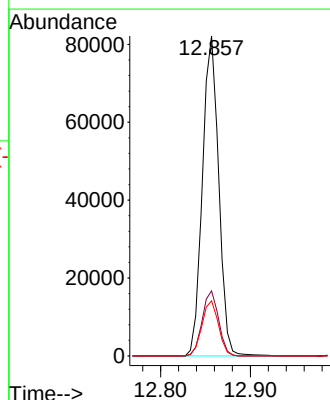
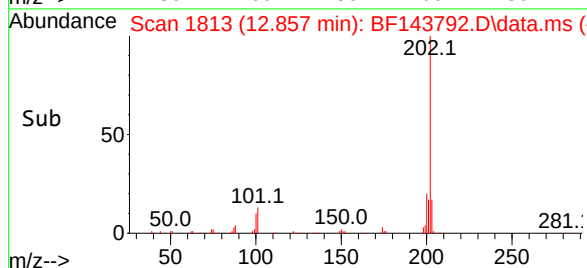
Tgt Ion:240 Resp: 398321  
Ion Ratio Lower Upper  
240 100  
120 7.5 6.2 9.4  
236 24.7 19.4 29.2

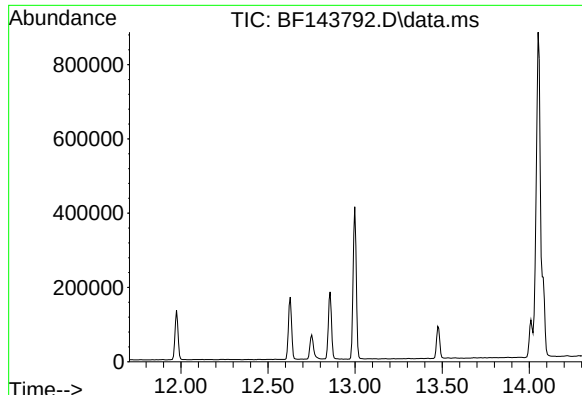


#78  
Pyrene  
Concen: 5.279 ng  
RT: 12.857 min Scan# 1813  
Delta R.T. -0.000 min  
Lab File: BF143792.D  
Acq: 23 Sep 2025 10:58



Tgt Ion:202 Resp: 103385  
Ion Ratio Lower Upper  
202 100  
200 20.3 17.0 25.4  
203 17.2 13.9 20.9





#79

Terphenyl-d14

Concen: 0.000 ng

Expected RT: 13.00 min

Lab File: BF143792.D

Acq: 23 Sep 2025 10:58

Instrument :

BNA\_F

ClientSampleId :

SSTDICC005

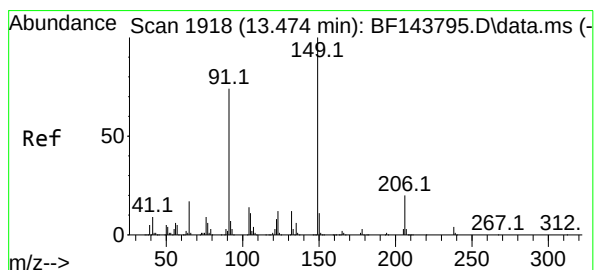
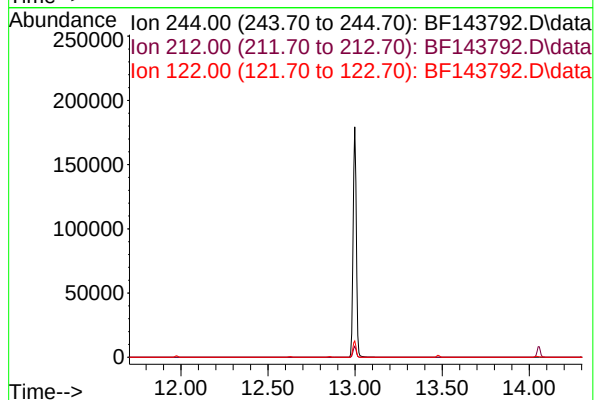
Tgt Ion: 244

Sig Exp Ratio

244 100

212 4.9

122 7.0



#80

Butylbenzylphthalate

Concen: 3.695 ng

RT: 13.474 min Scan# 1918

Delta R.T. -0.006 min

Lab File: BF143792.D

Acq: 23 Sep 2025 10:58

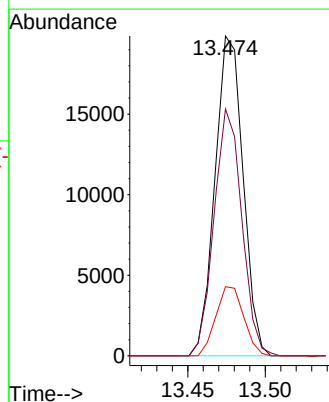
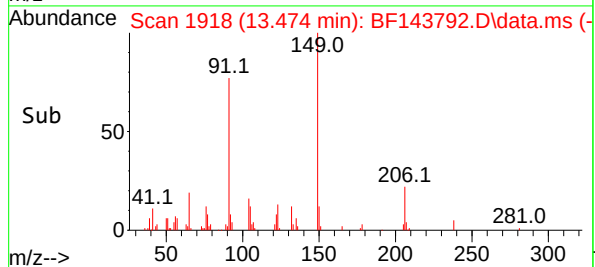
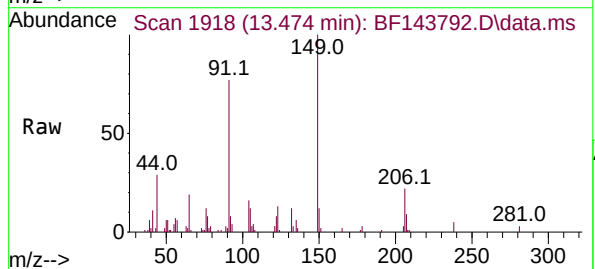
Tgt Ion:149 Resp: 25033

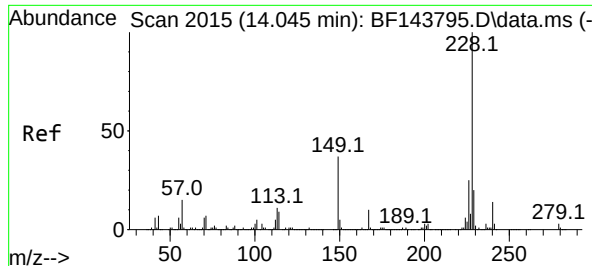
Ion Ratio Lower Upper

149 100

91 77.2 59.5 89.3

206 21.6 16.1 24.1

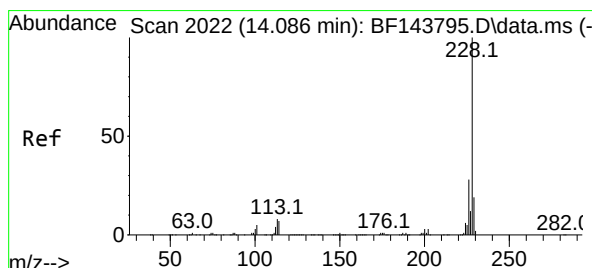
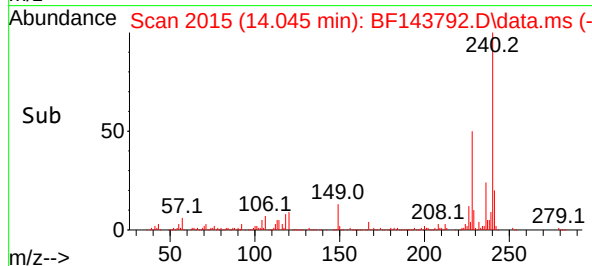
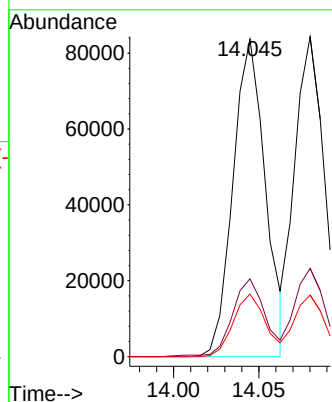
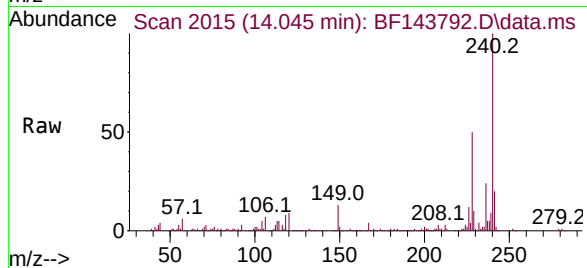




#81  
Benzo(a)anthracene  
Concen: 5.163 ng  
RT: 14.045 min Scan# 2015  
Delta R.T. -0.006 min  
Lab File: BF143792.D  
Acq: 23 Sep 2025 10:58

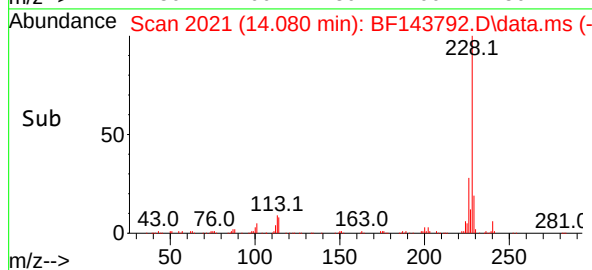
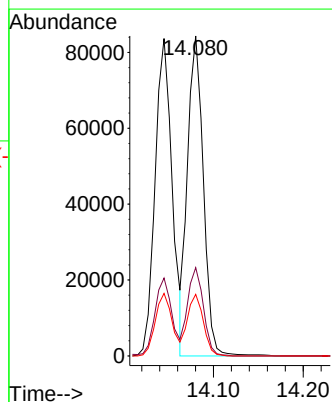
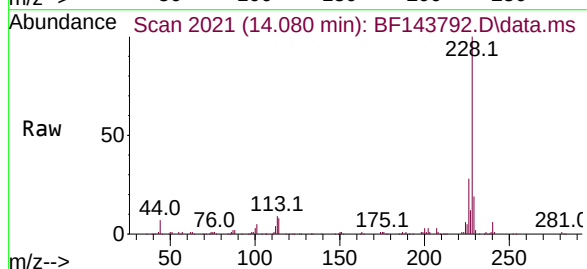
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC005

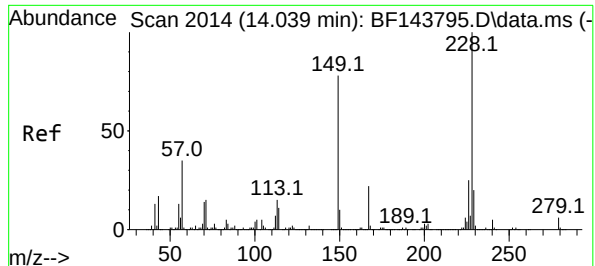
Tgt Ion:228 Resp: 110473  
Ion Ratio Lower Upper  
228 100  
226 24.5 20.2 30.2  
229 19.7 16.1 24.1



#83  
Chrysene  
Concen: 5.353 ng  
RT: 14.080 min Scan# 2021  
Delta R.T. -0.006 min  
Lab File: BF143792.D  
Acq: 23 Sep 2025 10:58

Tgt Ion:228 Resp: 103643  
Ion Ratio Lower Upper  
228 100  
226 27.6 22.6 33.8  
229 19.2 15.6 23.4

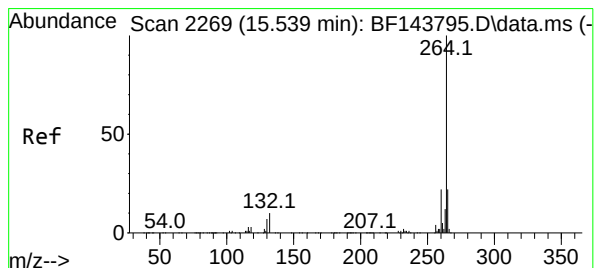
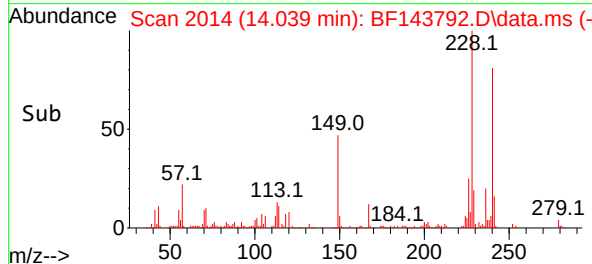
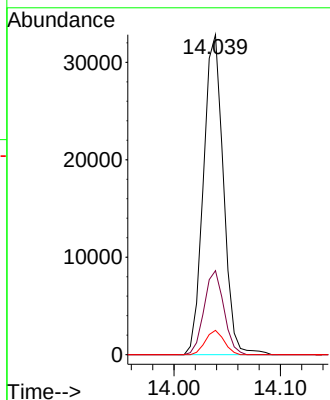
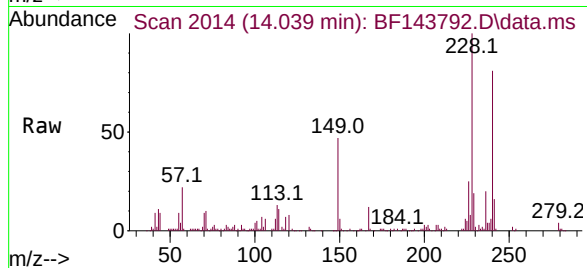




#84  
Bis(2-ethylhexyl)phthalate  
Concen: 4.295 ng  
RT: 14.039 min Scan# 2014  
Delta R.T. -0.000 min  
Lab File: BF143792.D  
Acq: 23 Sep 2025 10:58

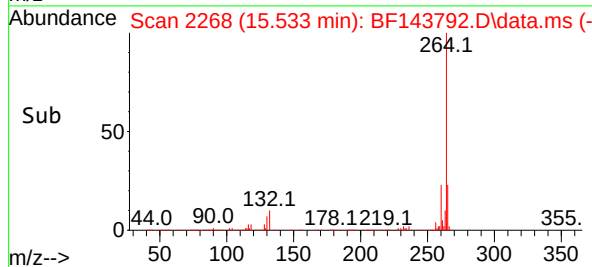
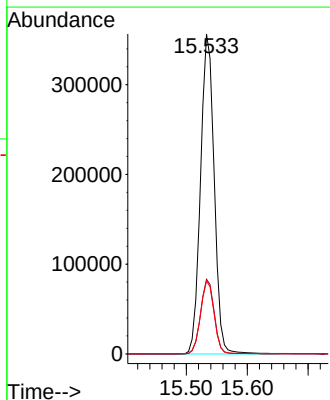
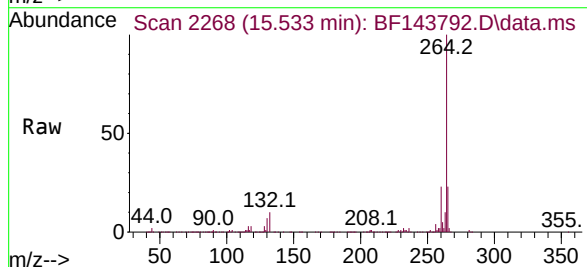
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC005

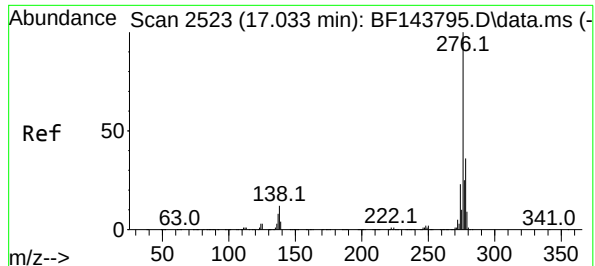
Tgt Ion:149 Resp: 42651  
Ion Ratio Lower Upper  
149 100  
167 26.2 22.2 33.2  
279 7.6 6.0 9.0



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.533 min Scan# 2268  
Delta R.T. -0.006 min  
Lab File: BF143792.D  
Acq: 23 Sep 2025 10:58

Tgt Ion:264 Resp: 555053  
Ion Ratio Lower Upper  
264 100  
260 23.4 17.9 26.9  
265 22.8 17.7 26.5

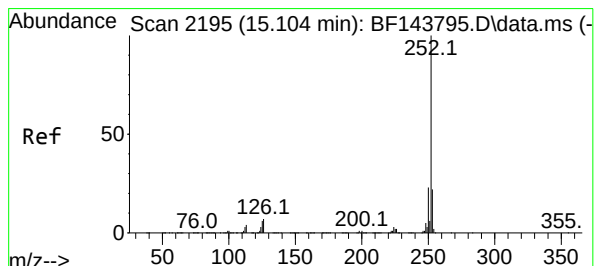
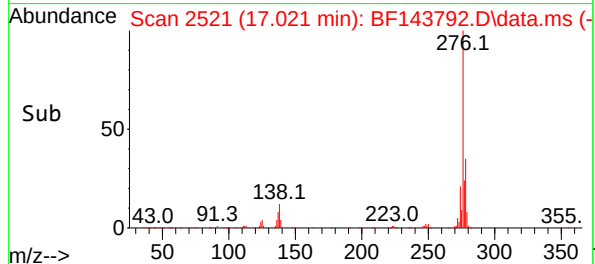
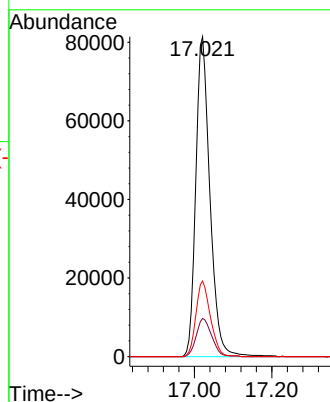
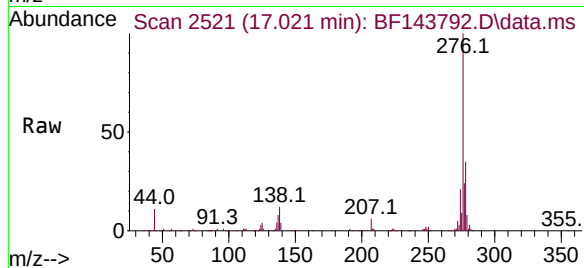




#87  
Indeno(1,2,3-cd)pyrene  
Concen: 4.886 ng  
RT: 17.021 min Scan# 2194  
Delta R.T. -0.024 min  
Lab File: BF143792.D  
Acq: 23 Sep 2025 10:58

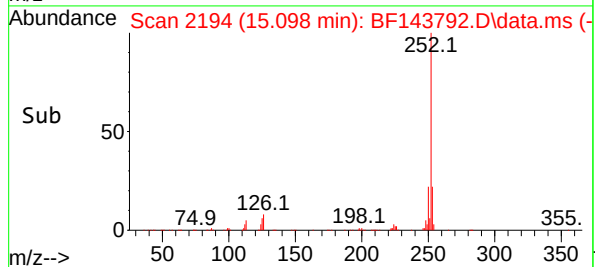
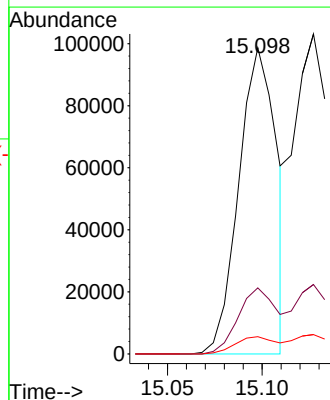
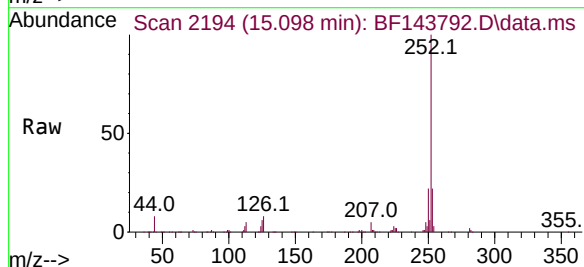
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC005

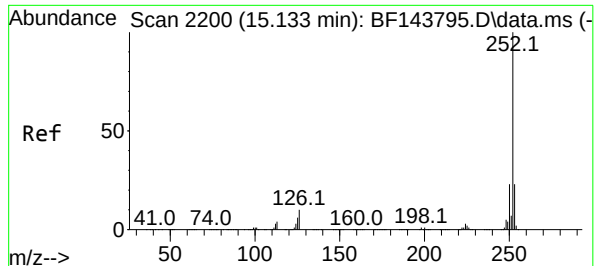
Tgt Ion:276 Resp: 205787  
Ion Ratio Lower Upper  
276 100  
138 13.0 10.6 15.8  
277 24.3 20.7 31.1



#88  
Benzo(b)fluoranthene  
Concen: 4.847 ng  
RT: 15.098 min Scan# 2194  
Delta R.T. -0.006 min  
Lab File: BF143792.D  
Acq: 23 Sep 2025 10:58

Tgt Ion:252 Resp: 137015  
Ion Ratio Lower Upper  
252 100  
253 21.6 17.8 26.8  
125 5.6 4.4 6.6





#89

Benzo(k)fluoranthene

Concen: 5.184 ng

RT: 15.127 min Scan# 21

Delta R.T. -0.012 min

Lab File: BF143792.D

Acq: 23 Sep 2025 10:58

Instrument :

BNA\_F

ClientSampleId :

SSTDICC005

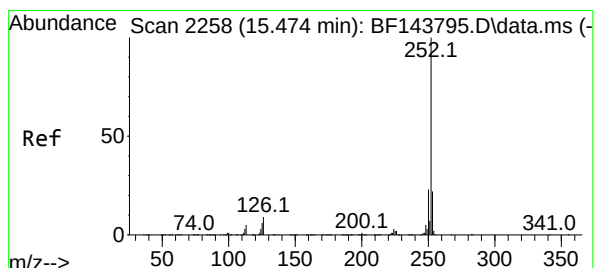
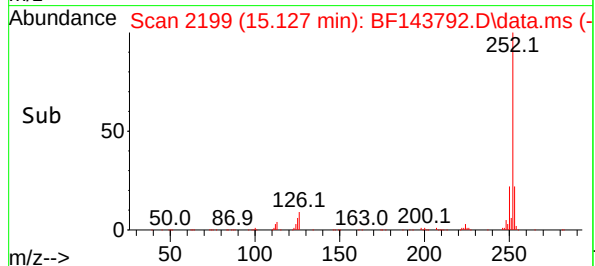
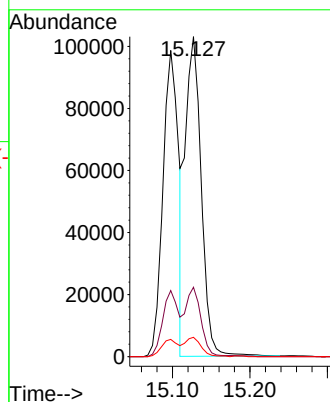
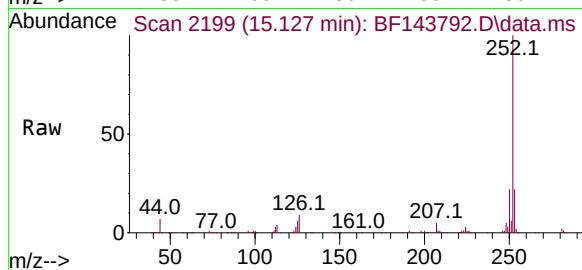
Tgt Ion:252 Resp: 147201

Ion Ratio Lower Upper

252 100

253 21.7 17.9 26.9

125 6.0 4.6 6.8



#90

Benzo(a)pyrene

Concen: 4.848 ng

RT: 15.468 min Scan# 2257

Delta R.T. -0.012 min

Lab File: BF143792.D

Acq: 23 Sep 2025 10:58

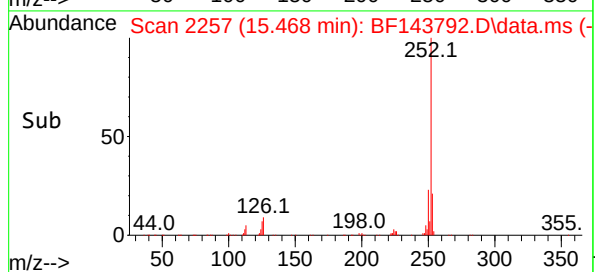
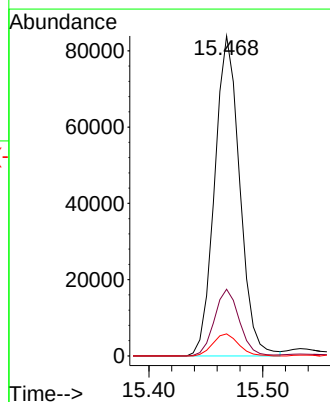
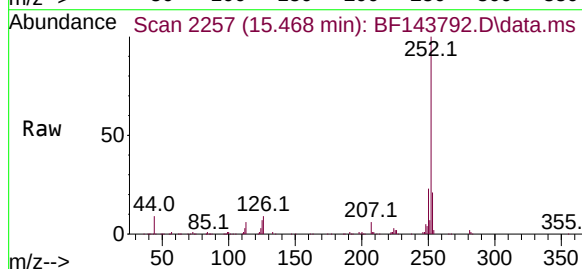
Tgt Ion:252 Resp: 128819

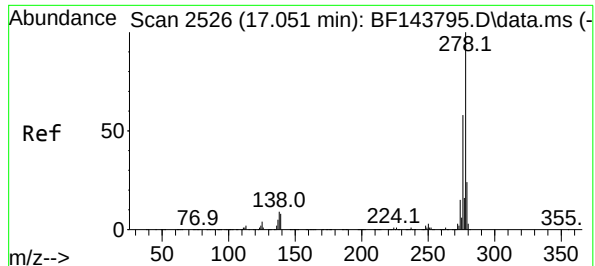
Ion Ratio Lower Upper

252 100

253 20.8 17.6 26.4

125 6.9 5.0 7.4

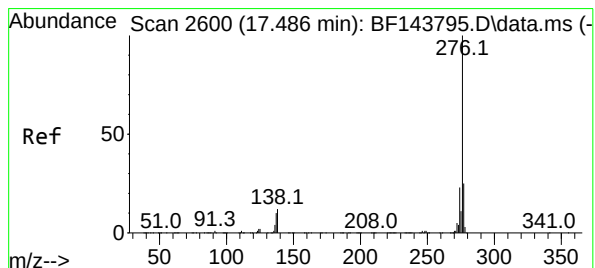
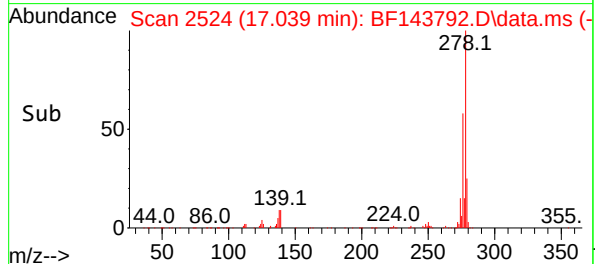
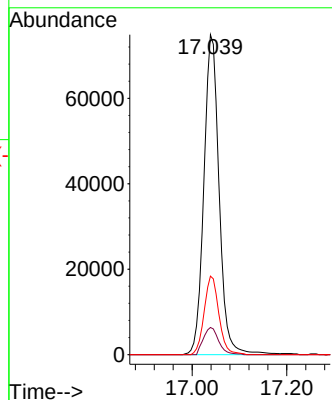
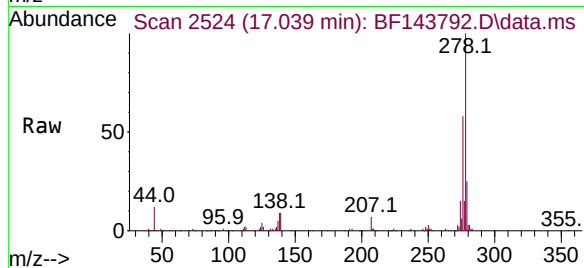




#91  
Dibenzo(a,h)anthracene  
Concen: 4.862 ng  
RT: 17.039 min Scan# 21  
Delta R.T. -0.029 min  
Lab File: BF143792.D  
Acq: 23 Sep 2025 10:58

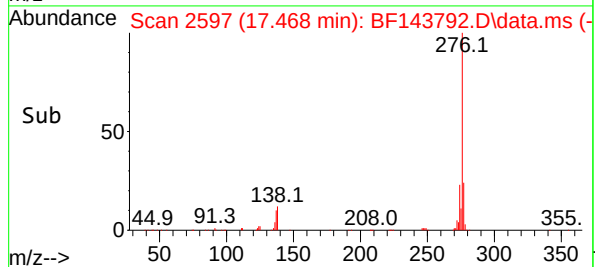
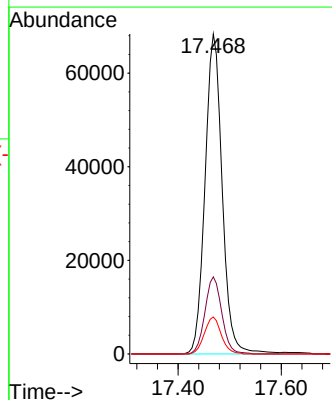
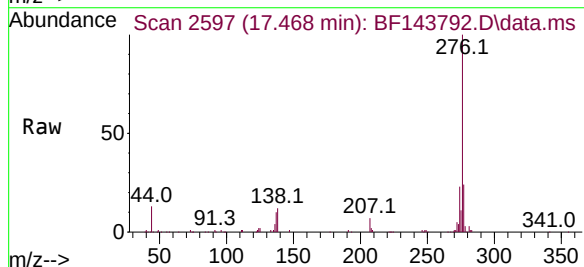
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC005

Tgt Ion:278 Resp: 167469  
Ion Ratio Lower Upper  
278 100  
139 8.5 6.7 10.1  
279 24.5 19.3 28.9



#92  
Benzo(g,h,i)perylene  
Concen: 4.741 ng  
RT: 17.468 min Scan# 2597  
Delta R.T. -0.035 min  
Lab File: BF143792.D  
Acq: 23 Sep 2025 10:58

Tgt Ion:276 Resp: 157425  
Ion Ratio Lower Upper  
276 100  
277 24.1 19.6 29.4  
138 11.5 9.2 13.8





Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF092325\  
 Data File : BF143793.D  
 Acq On : 23 Sep 2025 11:57  
 Operator : RC/JU  
 Sample : SSTDICC010  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SSTDICC010

Quant Time: Sep 23 17:06:19 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF092325.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Sep 23 16:31:21 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.887  | 152  | 132313   | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8            | 8.169  | 136  | 488285   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10          | 9.922  | 164  | 239396   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10          | 11.410 | 188  | 375125   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12              | 14.051 | 240  | 430577   | 20.000 | ng    | -0.01    |
| 86) Perylene-d12              | 15.533 | 264  | 582350   | 20.000 | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.487  | 112  | 166482   | 20.250 | ng    | -0.01    |
| 7) Phenol-d6                  | 6.493  | 99   | 199435   | 20.556 | ng    | -0.02    |
| 23) Nitrobenzene-d5           | 7.440  | 82   | 150816   | 19.438 | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol      | 10.710 | 330  | 72517    | 21.225 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 9.239  | 172  | 353299   | 21.809 | ng    | 0.00     |
| 79) Terphenyl-d14             | 12.998 | 244  | 449442   | 20.493 | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| Target Compounds              |        |      |          |        |       | Qvalue   |
| 2) 1,4-Dioxane                | 2.640  | 88   | 38037    | 9.758  | ng    | 97       |
| 3) Pyridine                   | 3.410  | 79   | 100675   | 9.568  | ng    | 99       |
| 4) n-Nitrosodimethylamine     | 3.334  | 42   | 49199    | 9.325  | ng    | 97       |
| 6) Aniline                    | 6.545  | 93   | 140265   | 10.271 | ng    | 98       |
| 8) 2-Chlorophenol             | 6.663  | 128  | 82971    | 9.952  | ng    | 99       |
| 9) Benzaldehyde               | 6.434  | 77   | 70550    | 8.562  | ng    | 99       |
| 10) Phenol                    | 6.510  | 94   | 113001   | 10.332 | ng    | 96       |
| 11) bis(2-Chloroethyl)ether   | 6.616  | 93   | 87384    | 10.192 | ng    | 97       |
| 12) 1,3-Dichlorobenzene       | 6.828  | 146  | 98776    | 10.204 | ng    | 99       |
| 13) 1,4-Dichlorobenzene       | 6.904  | 146  | 99003    | 10.249 | ng    | 99       |
| 14) 1,2-Dichlorobenzene       | 7.057  | 146  | 93067    | 10.172 | ng    | 99       |
| 15) Benzyl Alcohol            | 7.016  | 79   | 67639    | 9.948  | ng    | 98       |
| 16) 2,2'-oxybis(1-Chloropr... | 7.157  | 45   | 207456   | 10.204 | ng    | 99       |
| 17) 2-Methylphenol            | 7.122  | 107  | 65621    | 10.167 | ng    | 99       |
| 18) Hexachloroethane          | 7.398  | 117  | 33843    | 9.962  | ng    | 98       |
| 19) n-Nitroso-di-n-propyla... | 7.287  | 70   | 61660    | 10.190 | ng    | 99       |
| 20) 3+4-Methylphenols         | 7.275  | 107  | 84574    | 10.760 | ng    | 96       |
| 22) Acetophenone              | 7.287  | 105  | 113726   | 10.604 | ng    | 99       |
| 24) Nitrobenzene              | 7.463  | 77   | 86488    | 9.782  | ng    | 98       |
| 25) Isophorone                | 7.698  | 82   | 155268   | 9.989  | ng    | 99       |
| 26) 2-Nitrophenol             | 7.781  | 139  | 25281    | 9.284  | ng    | 99       |
| 27) 2,4-Dimethylphenol        | 7.810  | 122  | 68320    | 9.833  | ng    | 99       |
| 28) bis(2-Chloroethoxy)met... | 7.910  | 93   | 104902   | 10.387 | ng    | 99       |
| 29) 2,4-Dichlorophenol        | 8.016  | 162  | 69731    | 10.200 | ng    | 97       |
| 30) 1,2,4-Trichlorobenzene    | 8.110  | 180  | 70340    | 9.914  | ng    | 97       |
| 31) Naphthalene               | 8.187  | 128  | 249230   | 10.662 | ng    | 99       |
| 32) Benzoic acid              | 7.875  | 122  | 30248    | 9.023  | ng    | 97       |
| 33) 4-Chloroaniline           | 8.234  | 127  | 84740    | 10.316 | ng    | 99       |
| 34) Hexachlorobutadiene       | 8.310  | 225  | 53434    | 10.103 | ng    | 98       |
| 35) Caprolactam               | 8.563  | 113  | 16062    | 9.192  | ng    | 96       |
| 36) 4-Chloro-3-methylphenol   | 8.704  | 107  | 63361    | 9.882  | ng    | 97       |
| 37) 2-Methylnaphthalene       | 8.881  | 142  | 158654   | 10.644 | ng    | 99       |
| 38) 1-Methylnaphthalene       | 8.981  | 142  | 150831   | 10.572 | ng    | 98       |
| 40) 1,2,4,5-Tetrachloroben... | 9.045  | 216  | 75923    | 10.509 | ng    | 100      |
| 41) Hexachlorocyclopentadiene | 9.034  | 237  | 40258    | 8.792  | ng    | 99       |
| 43) 2,4,6-Trichlorophenol     | 9.151  | 196  | 42859    | 9.474  | ng    | 99       |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF092325\  
 Data File : BF143793.D  
 Acq On : 23 Sep 2025 11:57  
 Operator : RC/JU  
 Sample : SSTDICC010  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SSTDICC010

Quant Time: Sep 23 17:06:19 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF092325.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Sep 23 16:31:21 2025  
 Response via : Initial Calibration

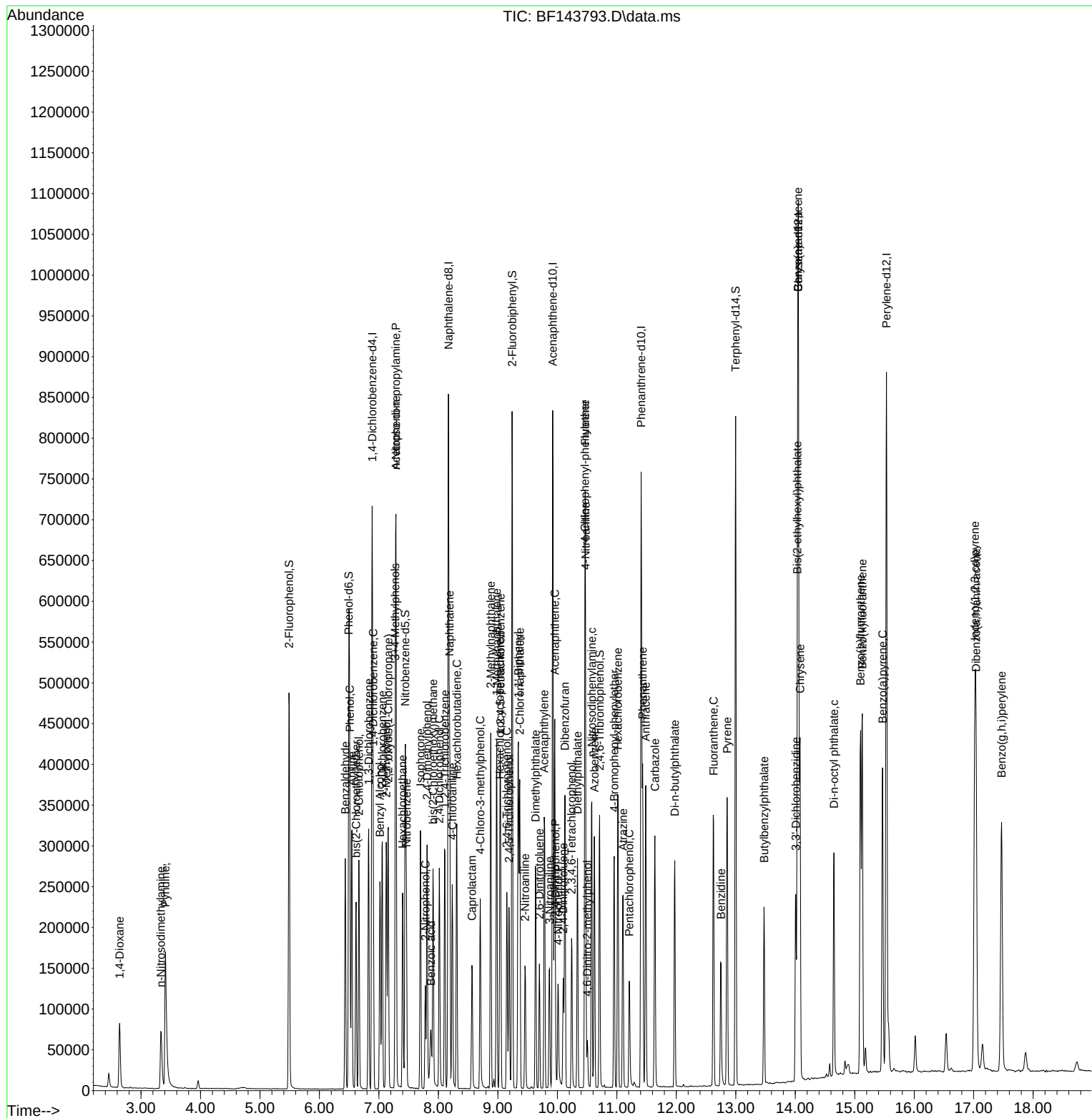
| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 44) 2,4,5-Trichlorophenol     | 9.186  | 196  | 46791    | 9.889  | ng    | 98       |
| 46) 1,1'-Biphenyl             | 9.345  | 154  | 184443   | 10.644 | ng    | 98       |
| 47) 2-Chloronaphthalene       | 9.369  | 162  | 146409   | 10.496 | ng    | 100      |
| 48) 2-Nitroaniline            | 9.457  | 65   | 36451    | 8.646  | ng    | 93       |
| 49) Acenaphthylene            | 9.781  | 152  | 198522   | 10.338 | ng    | 100      |
| 50) Dimethylphthalate         | 9.633  | 163  | 147631   | 10.118 | ng    | 100      |
| 51) 2,6-Dinitrotoluene        | 9.698  | 165  | 19239    | 8.025  | ng    | 90       |
| 52) Acenaphthene              | 9.957  | 154  | 134197   | 10.619 | ng    | 99       |
| 53) 3-Nitroaniline            | 9.869  | 138  | 25136    | 8.650  | ng    | # 96     |
| 54) 2,4-Dinitrophenol         | 9.969  | 184  | 6231     | 11.233 | ng    | # 1      |
| 55) Dibenzofuran              | 10.128 | 168  | 185710   | 10.393 | ng    | 100      |
| 56) 4-Nitrophenol             | 10.016 | 139  | 23569    | 10.065 | ng    | 98       |
| 57) 2,4-Dinitrotoluene        | 10.098 | 165  | 25096    | 9.543  | ng    | 94       |
| 58) Fluorene                  | 10.469 | 166  | 144778   | 10.898 | ng    | 100      |
| 59) 2,3,4,6-Tetrachlorophenol | 10.239 | 232  | 36970    | 9.120  | ng    | 100      |
| 60) Diethylphthalate          | 10.339 | 149  | 140054   | 10.254 | ng    | 98       |
| 61) 4-Chlorophenyl-phenyle... | 10.463 | 204  | 70883    | 10.472 | ng    | 99       |
| 62) 4-Nitroaniline            | 10.475 | 138  | 24435    | 8.943  | ng    | 98       |
| 63) Azobenzene                | 10.622 | 77   | 146130   | 10.152 | ng    | 99       |
| 65) 4,6-Dinitro-2-methylph... | 10.504 | 198  | 8417     | 10.867 | ng    | 98       |
| 66) n-Nitrosodiphenylamine    | 10.580 | 169  | 126584   | 10.261 | ng    | 98       |
| 67) 4-Bromophenyl-phenylether | 10.957 | 248  | 62547    | 9.784  | ng    | 99       |
| 68) Hexachlorobenzene         | 11.016 | 284  | 88177    | 10.009 | ng    | 98       |
| 69) Atrazine                  | 11.104 | 200  | 35762    | 10.010 | ng    | 97       |
| 70) Pentachlorophenol         | 11.210 | 266  | 33783    | 7.704  | ng    | 98       |
| 71) Phenanthrene              | 11.433 | 178  | 200025   | 10.386 | ng    | 99       |
| 72) Anthracene                | 11.486 | 178  | 200505   | 10.379 | ng    | 97       |
| 73) Carbazole                 | 11.639 | 167  | 174601   | 10.337 | ng    | 98       |
| 74) Di-n-butylphthalate       | 11.975 | 149  | 189120   | 9.736  | ng    | 99       |
| 75) Fluoranthene              | 12.627 | 202  | 196207   | 10.129 | ng    | 100      |
| 77) Benzidine                 | 12.751 | 184  | 94401    | 8.997  | ng    | 99       |
| 78) Pyrene                    | 12.857 | 202  | 211336   | 9.983  | ng    | 99       |
| 80) Butylbenzylphthalate      | 13.474 | 149  | 64090    | 8.751  | ng    | 99       |
| 81) Benzo(a)anthracene        | 14.045 | 228  | 232722   | 10.061 | ng    | 99       |
| 82) 3,3'-Dichlorobenzidine    | 14.010 | 252  | 91789    | 9.160  | ng    | 99       |
| 83) Chrysene                  | 14.080 | 228  | 212098   | 10.133 | ng    | 99       |
| 84) Bis(2-ethylhexyl)phtha... | 14.033 | 149  | 102600   | 9.557  | ng    | 98       |
| 85) Di-n-octyl phthalate      | 14.651 | 149  | 165178   | 8.482  | ng    | 99       |
| 87) Indeno(1,2,3-cd)pyrene    | 17.021 | 276  | 415337   | 9.400  | ng    | 99       |
| 88) Benzo(b)fluoranthene      | 15.098 | 252  | 292308   | 9.857  | ng    | 99       |
| 89) Benzo(k)fluoranthene      | 15.127 | 252  | 292238   | 9.808  | ng    | 99       |
| 90) Benzo(a)pyrene            | 15.468 | 252  | 267775   | 9.606  | ng    | 99       |
| 91) Dibenzo(a,h)anthracene    | 17.039 | 278  | 345636   | 9.564  | ng    | 98       |
| 92) Benzo(g,h,i)perylene      | 17.468 | 276  | 324982   | 9.329  | ng    | 99       |

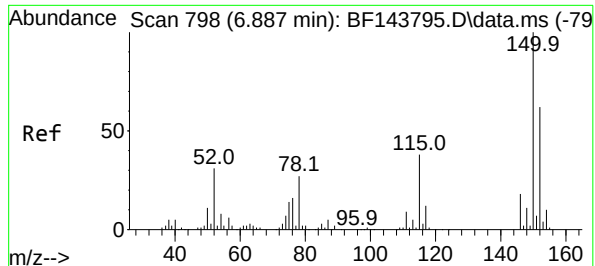
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF092325\  
 Data File : BF143793.D  
 Acq On : 23 Sep 2025 11:57  
 Operator : RC/JU  
 Sample : SSTDICC010  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SSTDICC010

Quant Time: Sep 23 17:06:19 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF092325.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Sep 23 16:31:21 2025  
 Response via : Initial Calibration

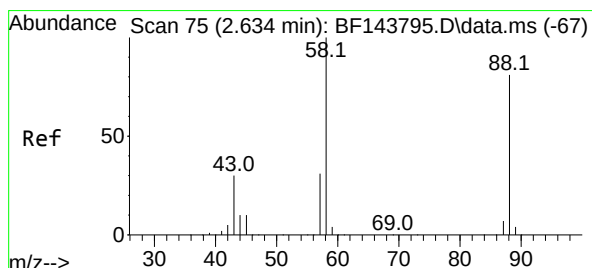
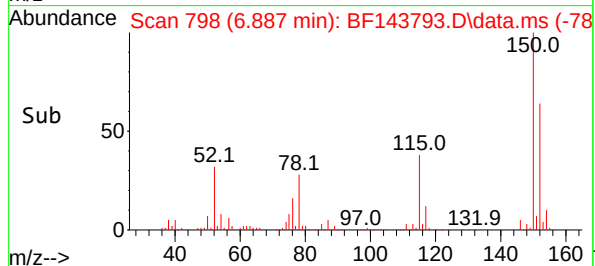
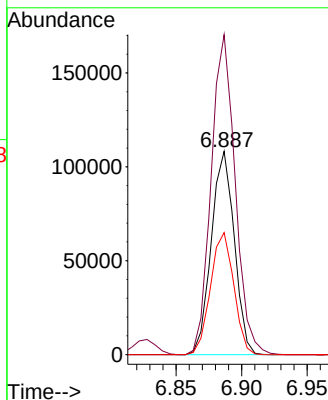
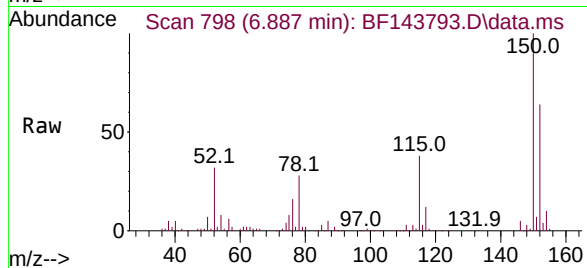




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.887 min Scan# 79  
Delta R.T. -0.000 min  
Lab File: BF143793.D  
Acq: 23 Sep 2025 11:57

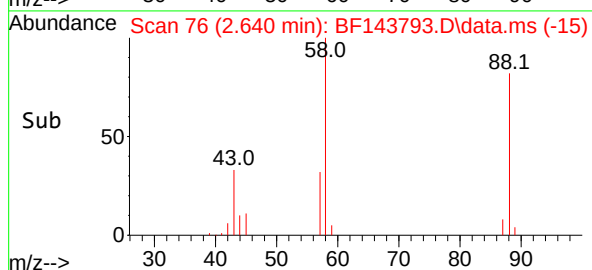
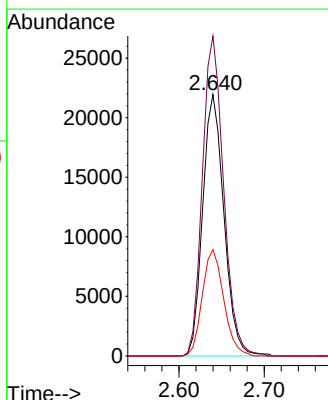
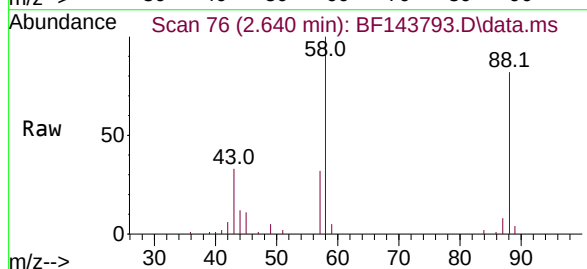
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDIC010

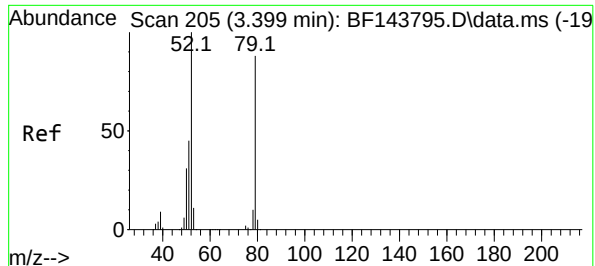
Tgt Ion:152 Resp: 132313  
Ion Ratio Lower Upper  
152 100  
150 157.4 129.6 194.4  
115 60.0 49.0 73.4



#2  
1,4-Dioxane  
Concen: 9.758 ng  
RT: 2.640 min Scan# 76  
Delta R.T. 0.006 min  
Lab File: BF143793.D  
Acq: 23 Sep 2025 11:57

Tgt Ion: 88 Resp: 38037  
Ion Ratio Lower Upper  
88 100  
58 121.6 99.4 149.2  
43 40.9 30.6 45.8





#3

Pyridine

Concen: 9.568 ng

RT: 3.410 min Scan# 20

Delta R.T. 0.012 min

Lab File: BF143793.D

Acq: 23 Sep 2025 11:57

Instrument :

BNA\_F

ClientSampleId :

SSTDICC010

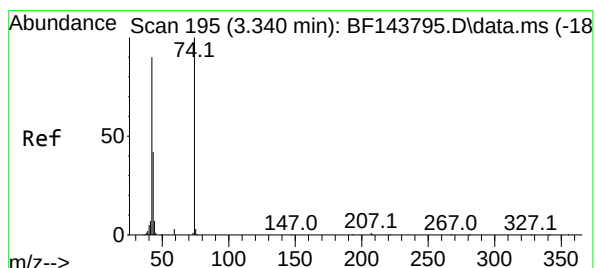
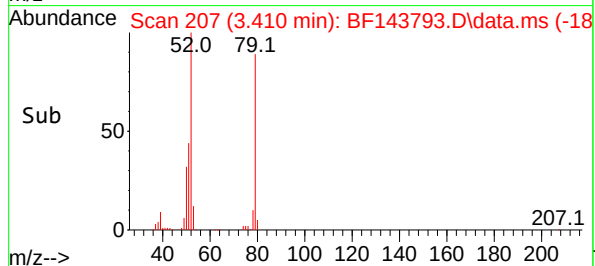
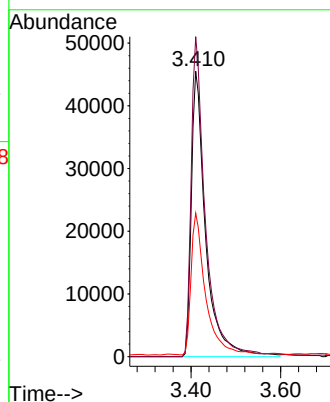
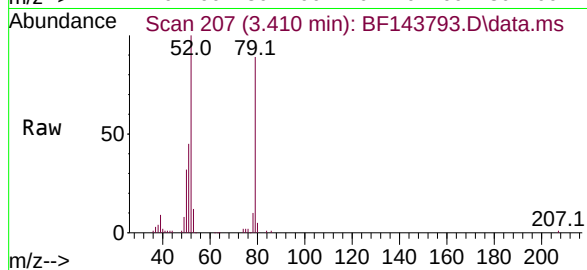
Tgt Ion: 79 Resp: 100675

Ion Ratio Lower Upper

79 100

52 112.2 90.5 135.7

51 50.3 40.6 61.0



#4

n-Nitrosodimethylamine

Concen: 9.325 ng

RT: 3.334 min Scan# 194

Delta R.T. -0.023 min

Lab File: BF143793.D

Acq: 23 Sep 2025 11:57

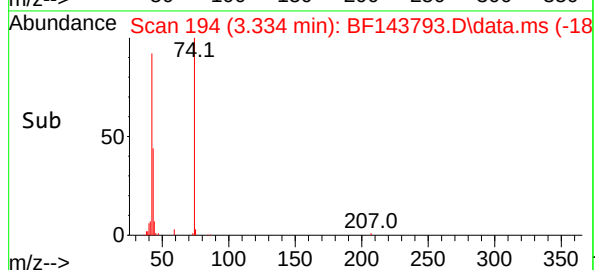
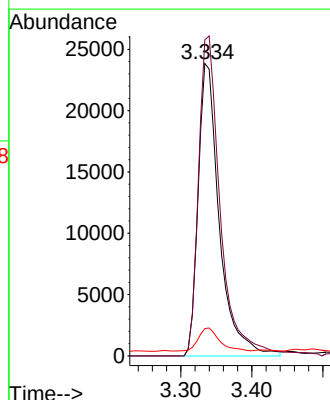
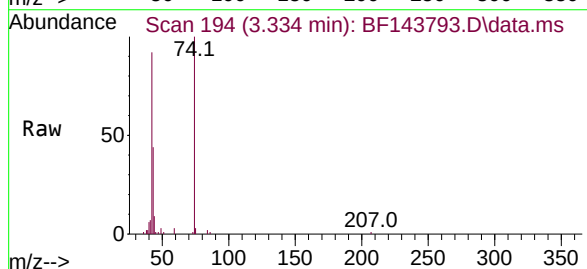
Tgt Ion: 42 Resp: 49199

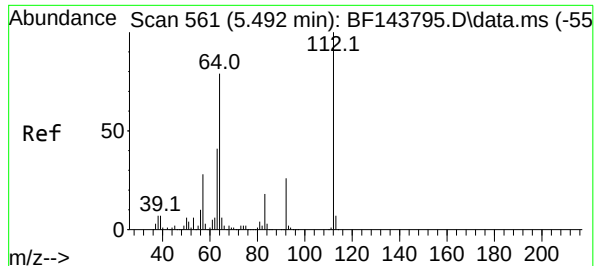
Ion Ratio Lower Upper

42 100

74 108.1 89.1 133.7

44 9.3 6.4 9.6

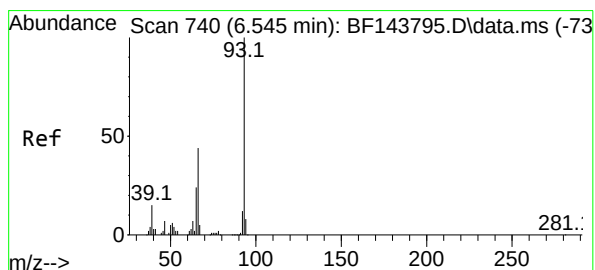
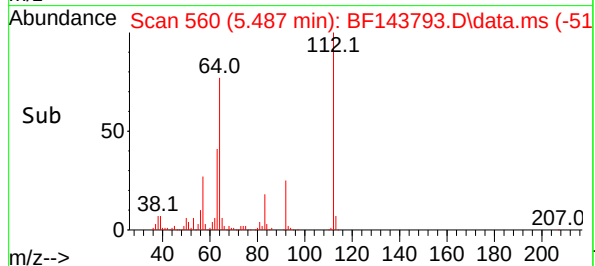
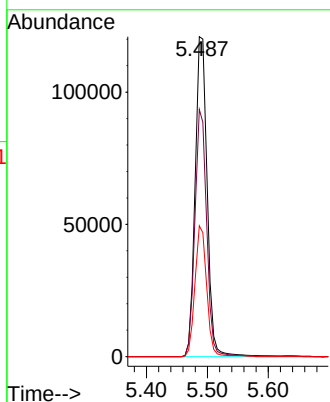
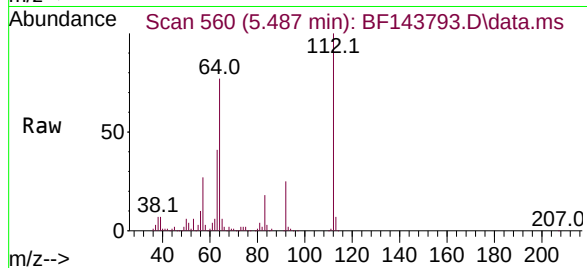




#5  
2-Fluorophenol  
Concen: 20.250 ng  
RT: 5.487 min Scan# 561  
Delta R.T. -0.012 min  
Lab File: BF143793.D  
Acq: 23 Sep 2025 11:57

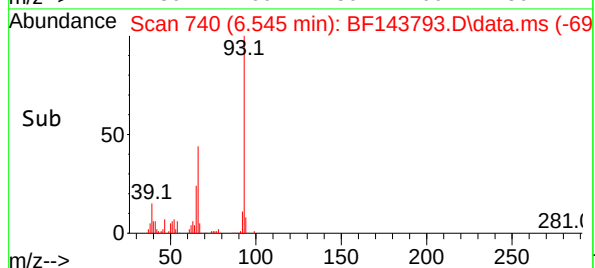
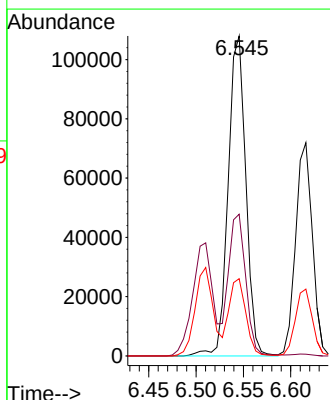
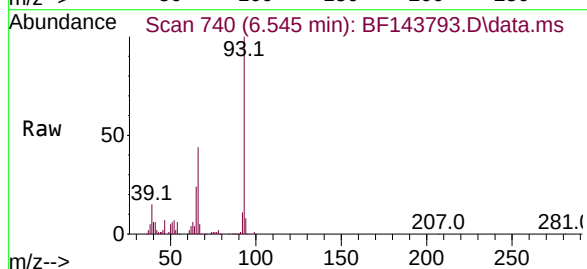
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC010

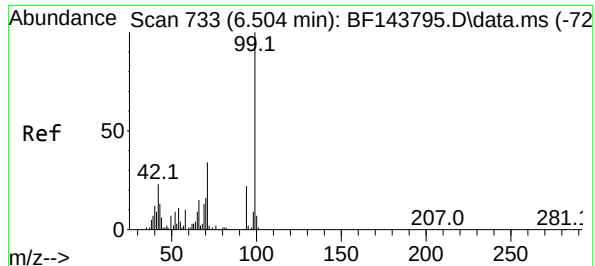
Tgt Ion:112 Resp: 166482  
Ion Ratio Lower Upper  
112 100  
64 77.2 63.0 94.4  
63 40.9 32.6 49.0



#6  
Aniline  
Concen: 10.271 ng  
RT: 6.545 min Scan# 740  
Delta R.T. -0.006 min  
Lab File: BF143793.D  
Acq: 23 Sep 2025 11:57

Tgt Ion: 93 Resp: 140265  
Ion Ratio Lower Upper  
93 100  
66 44.3 37.1 55.7  
65 24.1 19.4 29.0

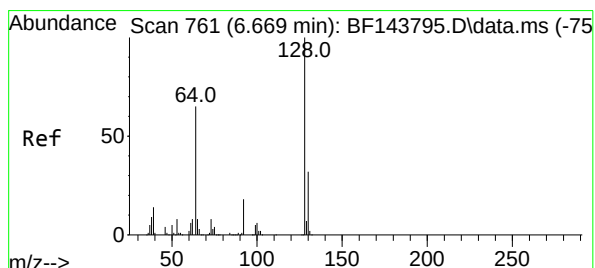
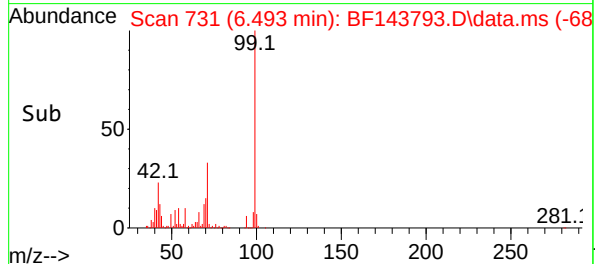
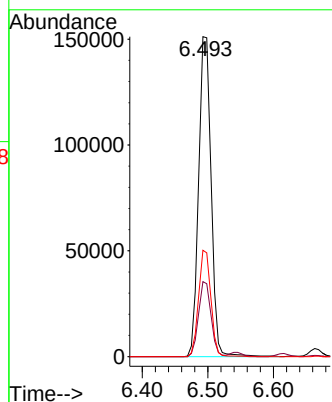
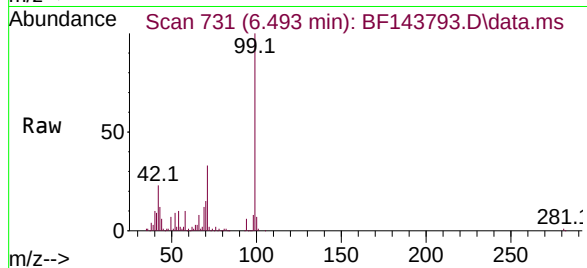




#7  
Phenol-d6  
Concen: 20.556 ng  
RT: 6.493 min Scan# 731  
Delta R.T. -0.018 min  
Lab File: BF143793.D  
Acq: 23 Sep 2025 11:57

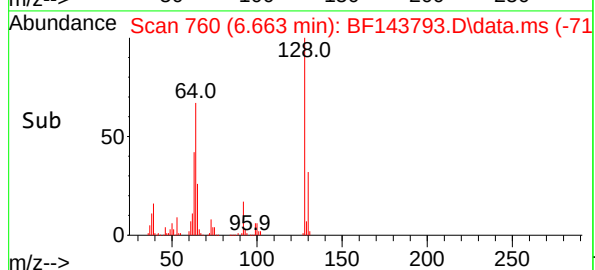
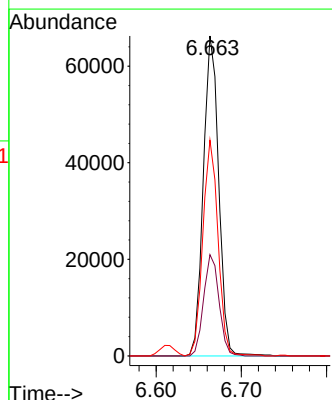
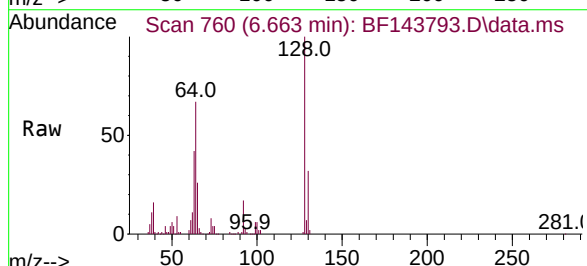
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC010

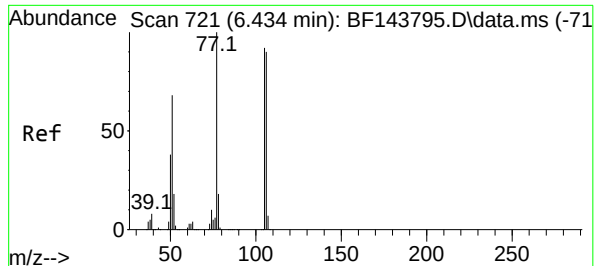
Tgt Ion: 99 Resp: 199435  
Ion Ratio Lower Upper  
99 100  
42 23.4 18.6 28.0  
71 33.2 27.0 40.4



#8  
2-Chlorophenol  
Concen: 9.952 ng  
RT: 6.663 min Scan# 760  
Delta R.T. -0.006 min  
Lab File: BF143793.D  
Acq: 23 Sep 2025 11:57

Tgt Ion: 128 Resp: 82971  
Ion Ratio Lower Upper  
128 100  
130 31.7 12.2 52.2  
64 67.4 46.5 86.5





#9

Benzaldehyde

Concen: 8.562 ng

RT: 6.434 min Scan# 721

Delta R.T. -0.006 min

Lab File: BF143793.D

Acq: 23 Sep 2025 11:57

Instrument :

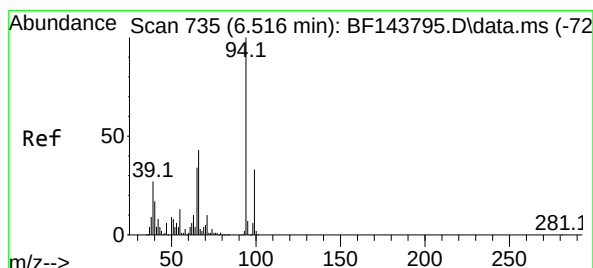
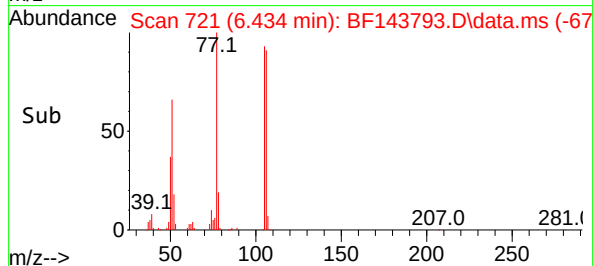
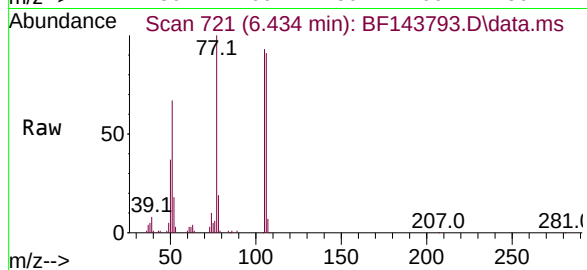
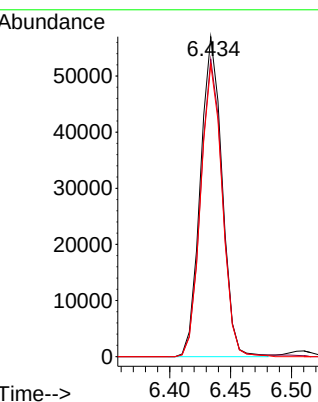
BNA\_F

ClientSampleId :

SSTDIC010

Tgt Ion: 77 Resp: 70550

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 77  | 100   |       |       |
| 105 | 92.9  | 71.8  | 111.8 |
| 106 | 91.3  | 69.8  | 109.8 |



#10

Phenol

Concen: 10.332 ng

RT: 6.510 min Scan# 734

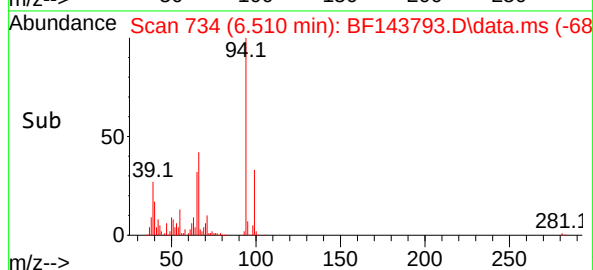
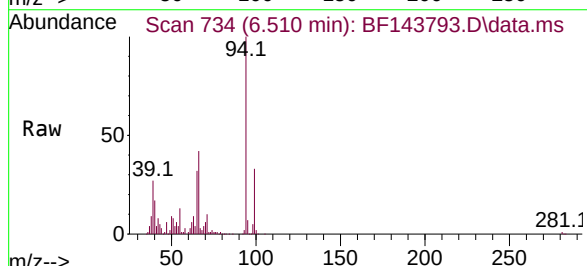
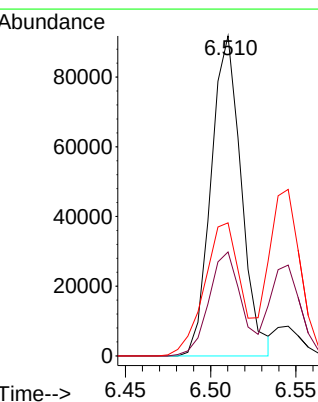
Delta R.T. -0.018 min

Lab File: BF143793.D

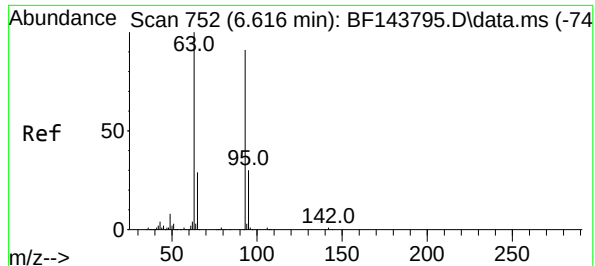
Acq: 23 Sep 2025 11:57

Tgt Ion: 94 Resp: 113001

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 94  | 100   |       |       |
| 65  | 32.5  | 14.2  | 54.2  |
| 66  | 41.6  | 24.1  | 64.1  |



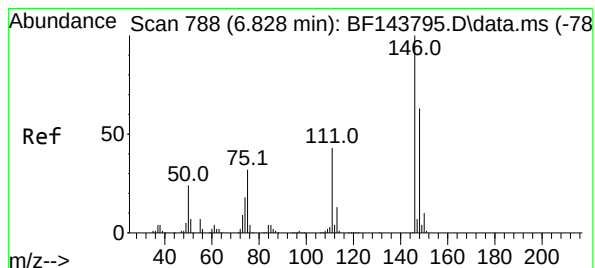
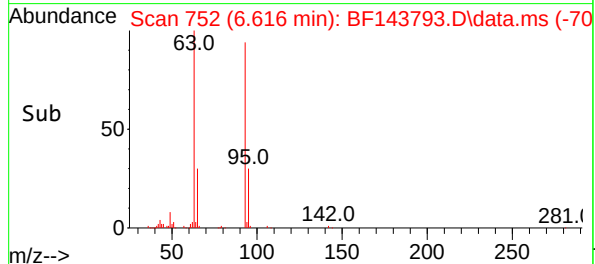
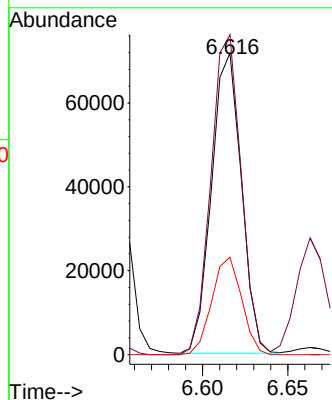
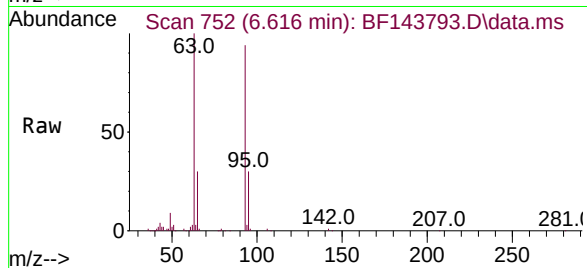




#11  
bis(2-Chloroethyl)ether  
Concen: 10.192 ng  
RT: 6.616 min Scan# 752  
Delta R.T. -0.006 min  
Lab File: BF143793.D  
Acq: 23 Sep 2025 11:57

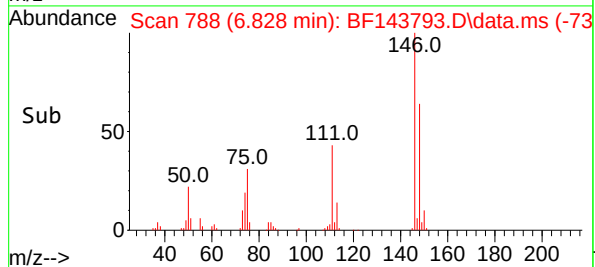
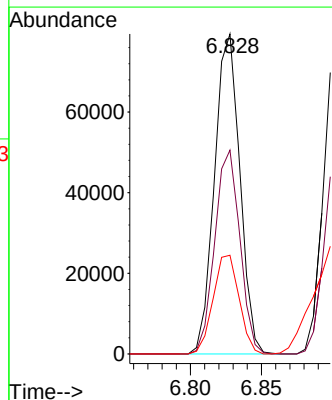
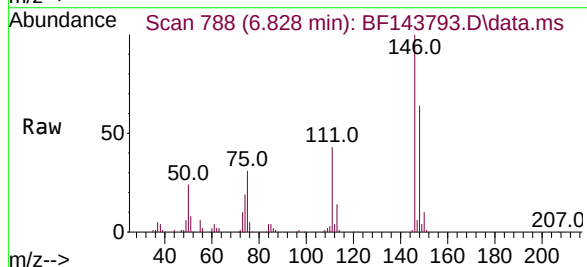
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC010

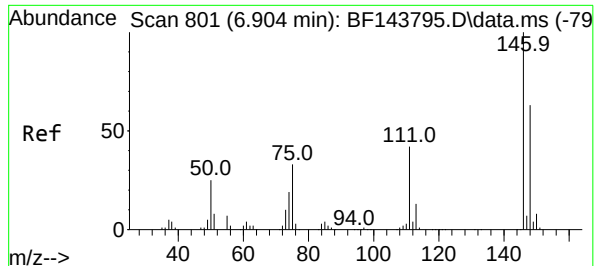
| Tgt Ion: | 93    | Resp: | 87384 |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 93       | 100   |       |       |
| 63       | 106.1 | 89.2  | 129.2 |
| 95       | 32.3  | 12.9  | 52.9  |



#12  
1,3-Dichlorobenzene  
Concen: 10.204 ng  
RT: 6.828 min Scan# 788  
Delta R.T. 0.000 min  
Lab File: BF143793.D  
Acq: 23 Sep 2025 11:57

| Tgt Ion: | 146   | Resp: | 98776 |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 146      | 100   |       |       |
| 148      | 63.7  | 50.4  | 75.6  |
| 75       | 30.8  | 25.6  | 38.4  |





#13

1,4-Dichlorobenzene

Concen: 10.249 ng

RT: 6.904 min Scan# 801

Delta R.T. 0.000 min

Lab File: BF143793.D

Acq: 23 Sep 2025 11:57

Instrument :

BNA\_F

ClientSampleId :

SSTDICC010

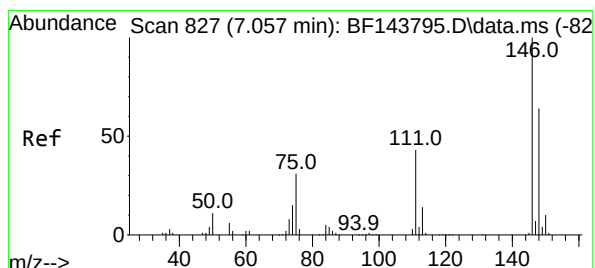
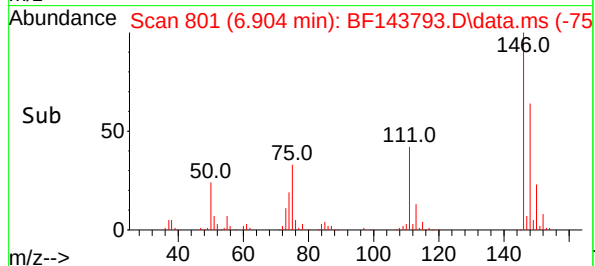
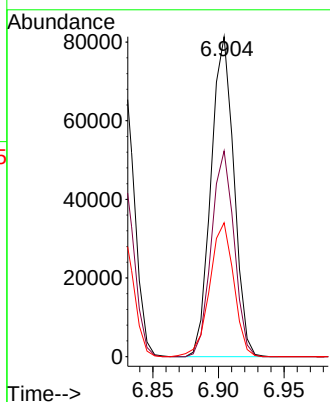
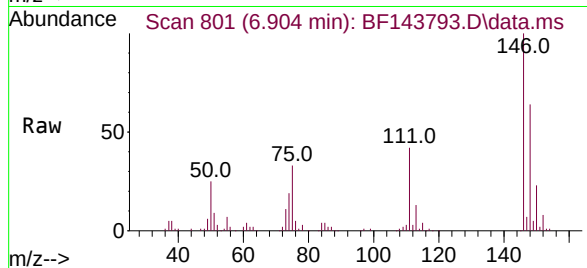
Tgt Ion:146 Resp: 99003

Ion Ratio Lower Upper

146 100

148 64.3 50.7 76.1

111 41.8 33.4 50.2



#14

1,2-Dichlorobenzene

Concen: 10.172 ng

RT: 7.057 min Scan# 827

Delta R.T. 0.000 min

Lab File: BF143793.D

Acq: 23 Sep 2025 11:57

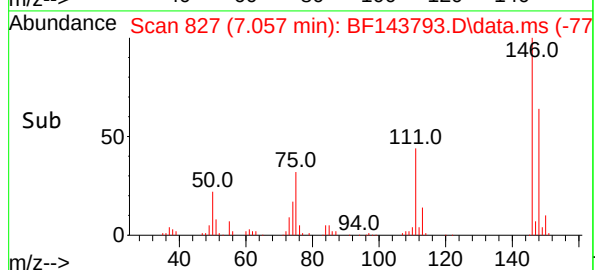
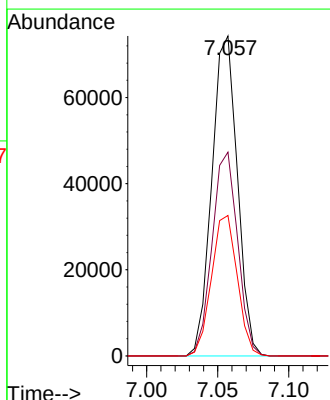
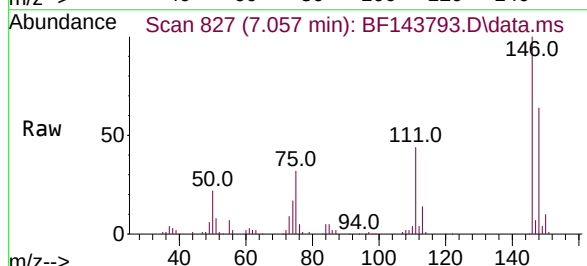
Tgt Ion:146 Resp: 93067

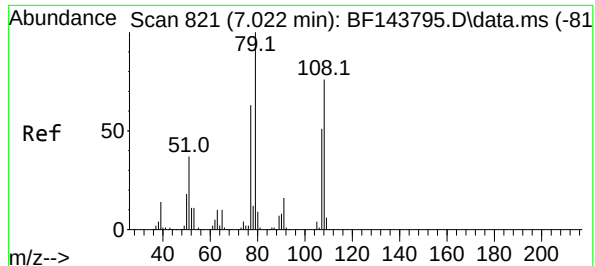
Ion Ratio Lower Upper

146 100

148 63.7 51.1 76.7

111 43.9 34.3 51.5





#15

Benzyl Alcohol

Concen: 9.948 ng

RT: 7.016 min Scan# 81

Delta R.T. -0.012 min

Lab File: BF143793.D

Acq: 23 Sep 2025 11:57

Instrument :

BNA\_F

ClientSampleId :

SSTDICC010

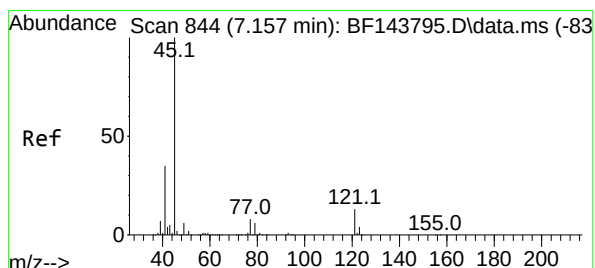
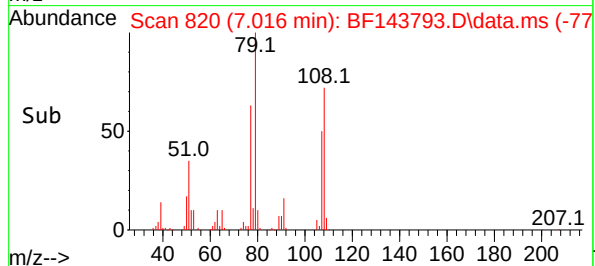
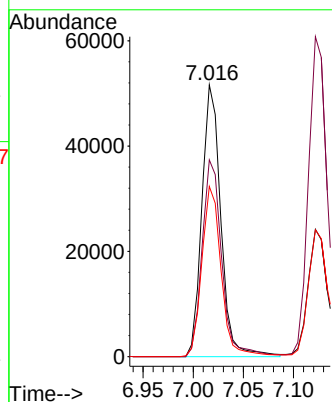
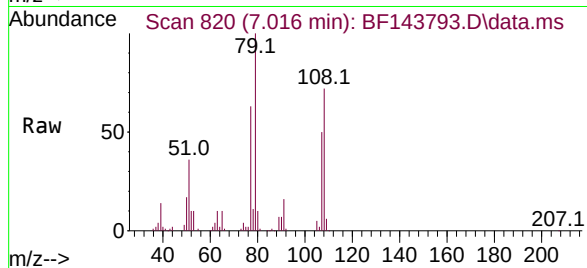
Tgt Ion: 79 Resp: 67639

Ion Ratio Lower Upper

79 100

108 72.4 60.5 90.7

77 62.6 50.3 75.5



#16

2,2'-oxybis(1-chloropropane)

Concen: 10.204 ng

RT: 7.157 min Scan# 844

Delta R.T. 0.000 min

Lab File: BF143793.D

Acq: 23 Sep 2025 11:57

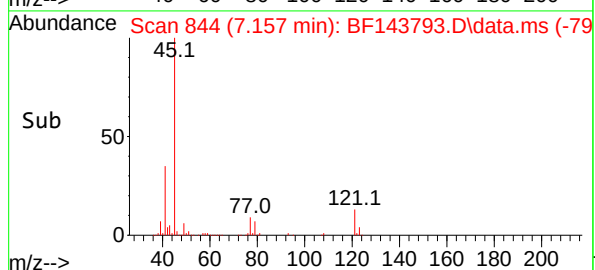
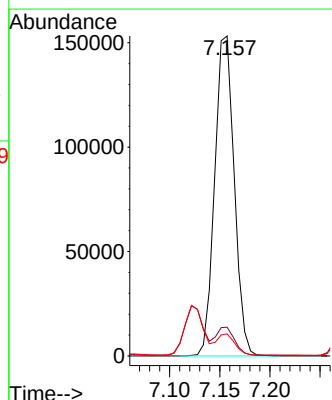
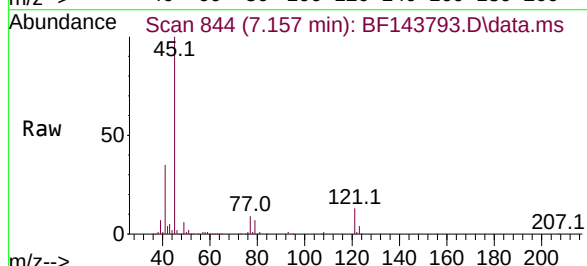
Tgt Ion: 45 Resp: 207456

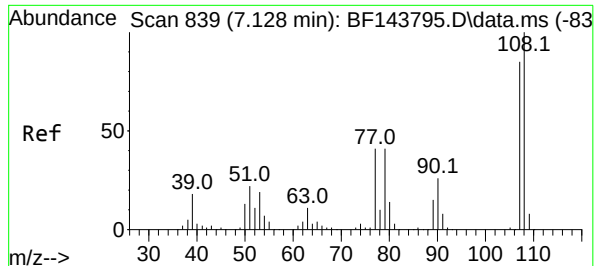
Ion Ratio Lower Upper

45 100

77 9.0 0.0 28.5

79 6.9 0.0 26.3

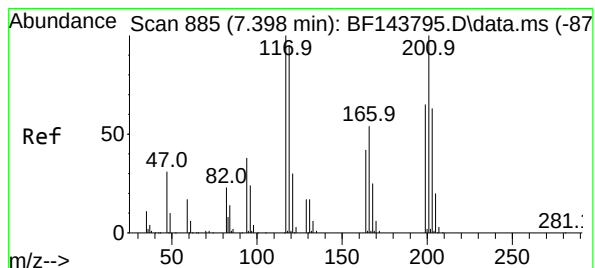
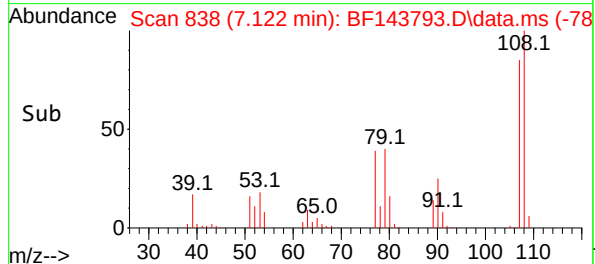
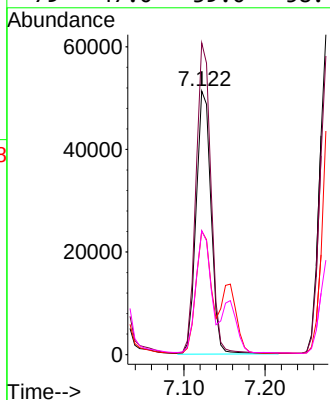
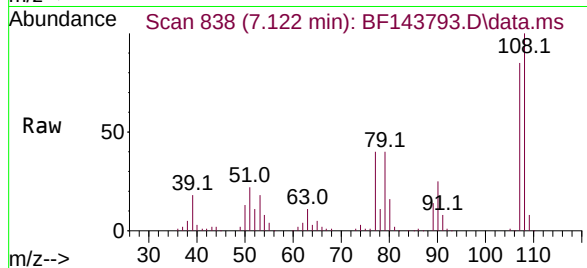




#17  
2-Methylphenol  
Concen: 10.167 ng  
RT: 7.122 min Scan# 839  
Delta R.T. -0.012 min  
Lab File: BF143793.D  
Acq: 23 Sep 2025 11:57

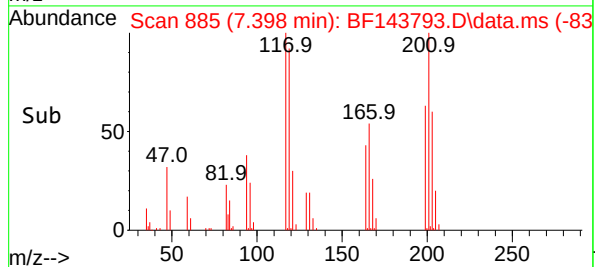
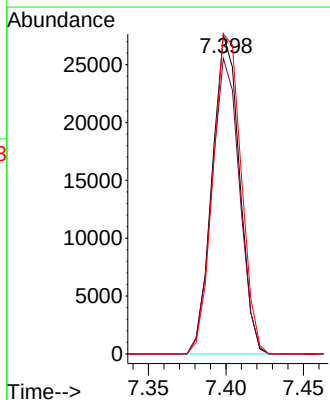
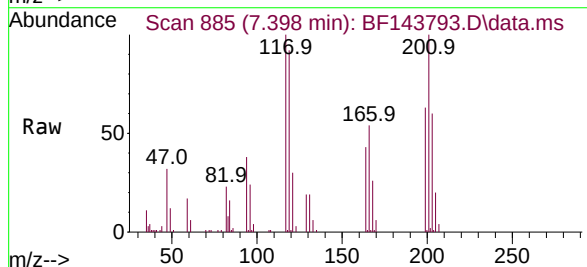
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC010

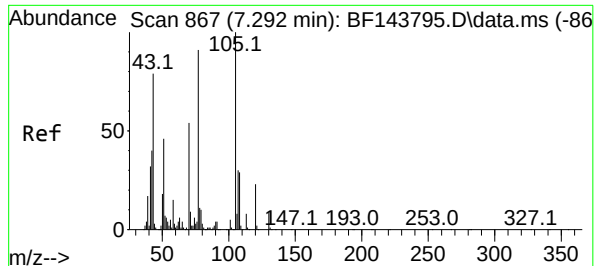
Tgt Ion:107 Resp: 65621  
Ion Ratio Lower Upper  
107 100  
108 118.3 94.2 141.4  
77 46.9 38.6 58.0  
79 47.0 39.0 58.4



#18  
Hexachloroethane  
Concen: 9.962 ng  
RT: 7.398 min Scan# 885  
Delta R.T. -0.006 min  
Lab File: BF143793.D  
Acq: 23 Sep 2025 11:57

Tgt Ion:117 Resp: 33843  
Ion Ratio Lower Upper  
117 100  
119 92.5 76.2 114.2  
201 100.2 79.7 119.5





#19

n-Nitroso-di-n-propylamine

Concen: 10.190 ng

RT: 7.287 min Scan# 866

Delta R.T. -0.018 min

Lab File: BF143793.D

Acq: 23 Sep 2025 11:57

Instrument :

BNA\_F

ClientSampleId :

SSTDICC010

Tgt Ion: 70 Resp: 61660

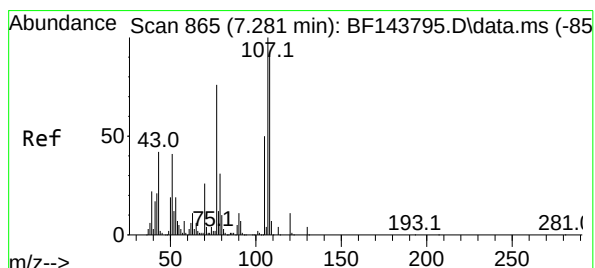
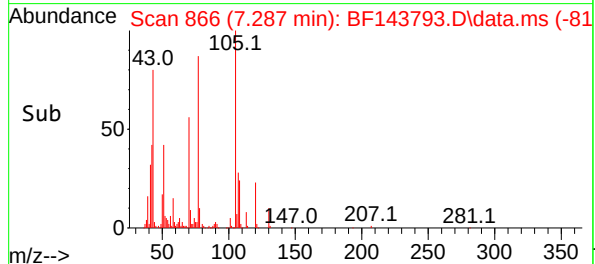
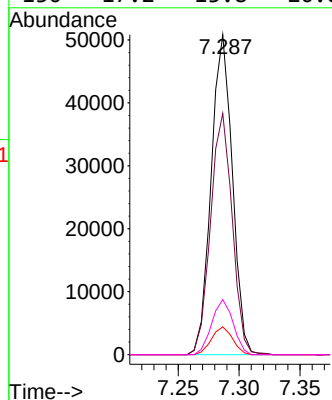
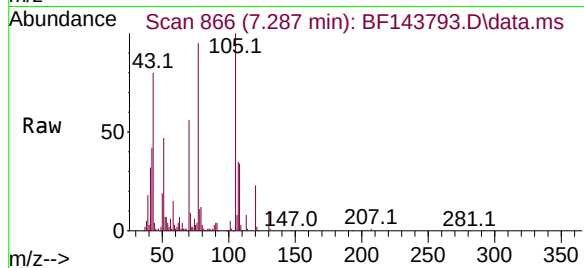
Ion Ratio Lower Upper

70 100

42 75.4 59.4 89.0

101 8.7 7.1 10.7

130 17.2 13.8 20.8



#20

3+4-Methylphenols

Concen: 10.760 ng

RT: 7.275 min Scan# 864

Delta R.T. -0.012 min

Lab File: BF143793.D

Acq: 23 Sep 2025 11:57

Tgt Ion: 107 Resp: 84574

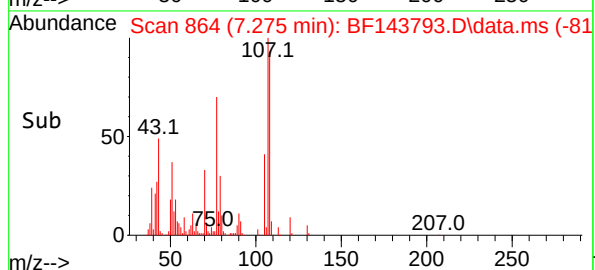
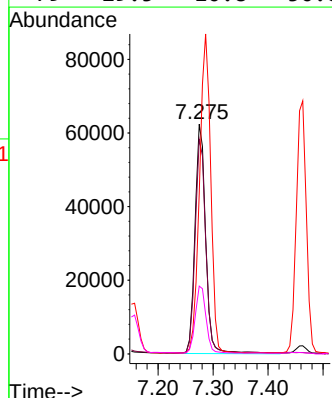
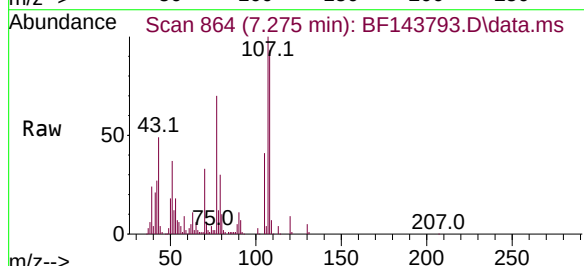
Ion Ratio Lower Upper

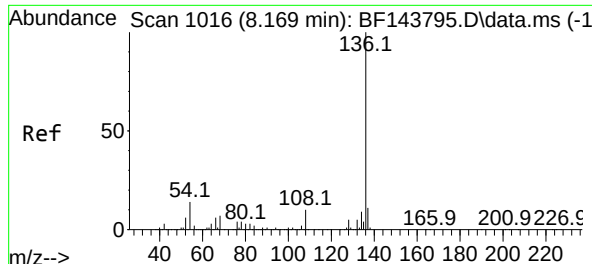
107 100

108 93.3 72.5 112.5

77 69.9 56.2 96.2

79 29.5 10.8 50.8





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.169 min Scan# 1016

Delta R.T. -0.000 min

Lab File: BF143793.D

Acq: 23 Sep 2025 11:57

Instrument :

BNA\_F

ClientSampleId :

SSTDIC010

Tgt Ion:136 Resp: 488285

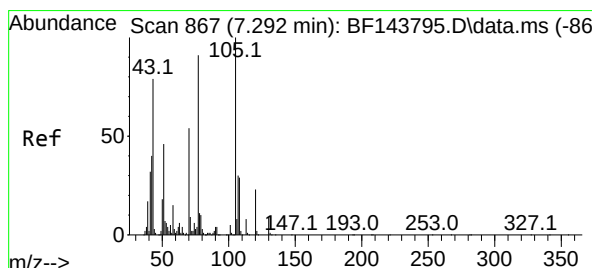
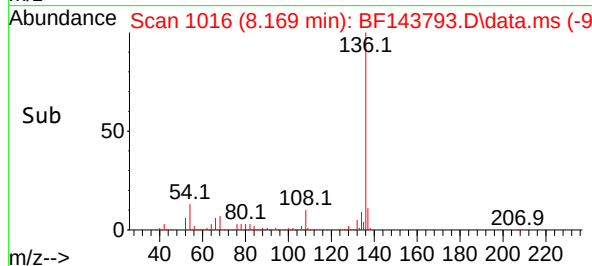
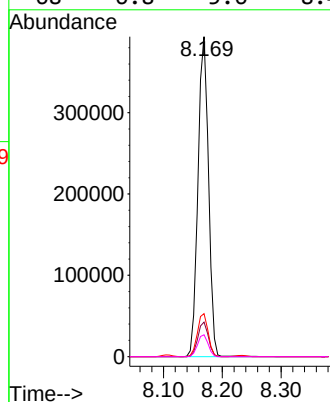
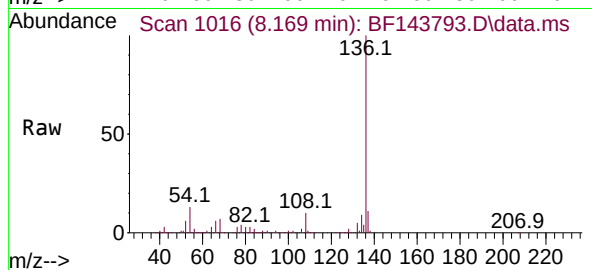
Ion Ratio Lower Upper

136 100

137 10.8 9.0 13.4

54 13.4 11.2 16.8

68 6.8 5.6 8.4



#22

Acetophenone

Concen: 10.604 ng

RT: 7.287 min Scan# 866

Delta R.T. -0.012 min

Lab File: BF143793.D

Acq: 23 Sep 2025 11:57

Tgt Ion:105 Resp: 113726

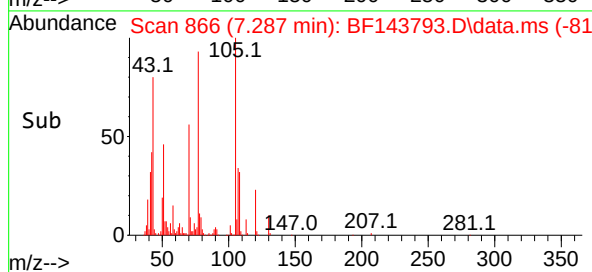
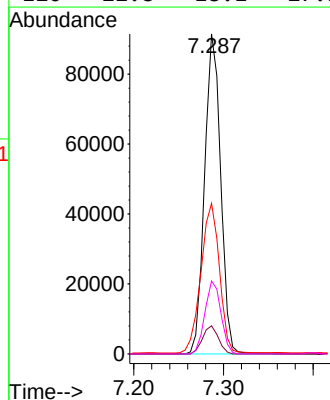
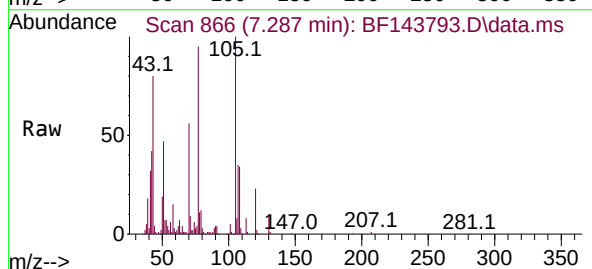
Ion Ratio Lower Upper

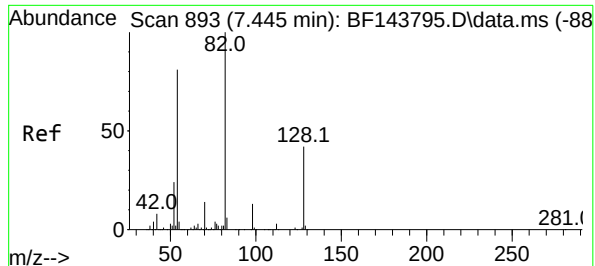
105 100

71 8.8 7.0 10.4

51 47.0 36.6 55.0

120 22.8 18.1 27.1

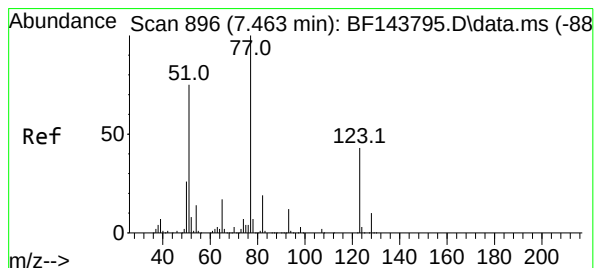
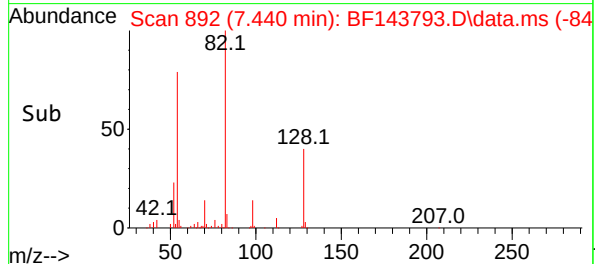
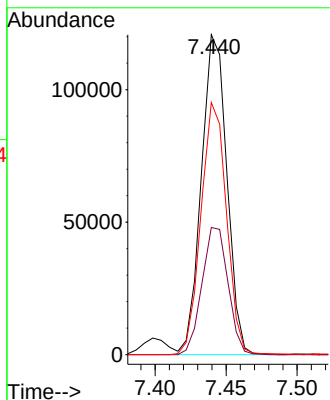
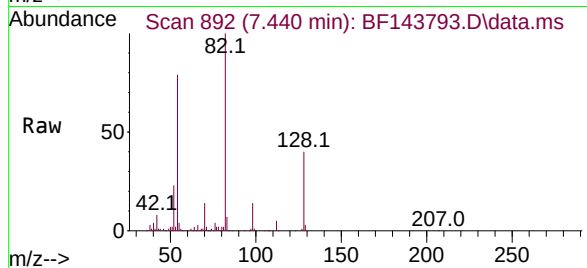




#23  
Nitrobenzene-d5  
Concen: 19.438 ng  
RT: 7.440 min Scan# 893  
Delta R.T. -0.012 min  
Lab File: BF143793.D  
Acq: 23 Sep 2025 11:57

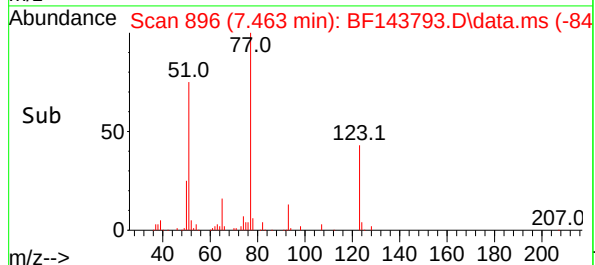
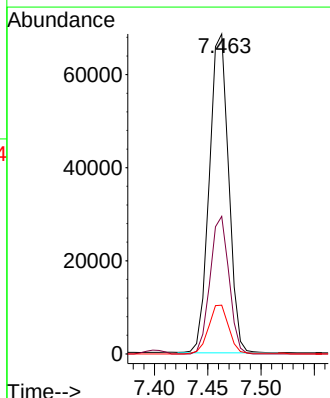
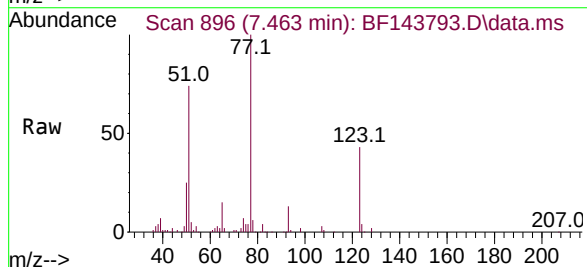
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC010

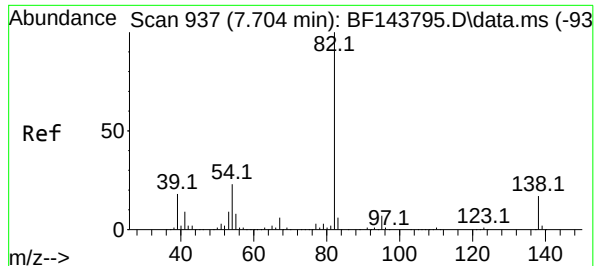
Tgt Ion: 82 Resp: 150816  
Ion Ratio Lower Upper  
82 100  
128 39.7 33.3 49.9  
54 78.8 64.2 96.4



#24  
Nitrobenzene  
Concen: 9.782 ng  
RT: 7.463 min Scan# 896  
Delta R.T. -0.012 min  
Lab File: BF143793.D  
Acq: 23 Sep 2025 11:57

Tgt Ion: 77 Resp: 86488  
Ion Ratio Lower Upper  
77 100  
123 43.0 34.0 51.0  
65 15.2 13.5 20.3





#25

Isophorone

Concen: 9.989 ng

RT: 7.698 min Scan# 91

Delta R.T. -0.012 min

Lab File: BF143793.D

Acq: 23 Sep 2025 11:57

Instrument :

BNA\_F

ClientSampleId :

SSTDICC010

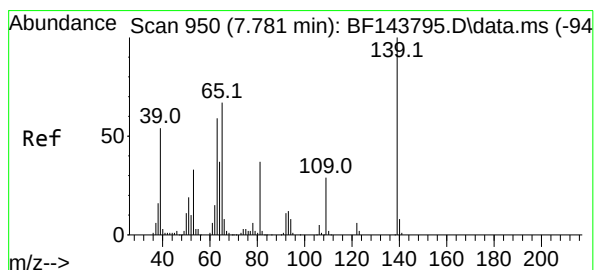
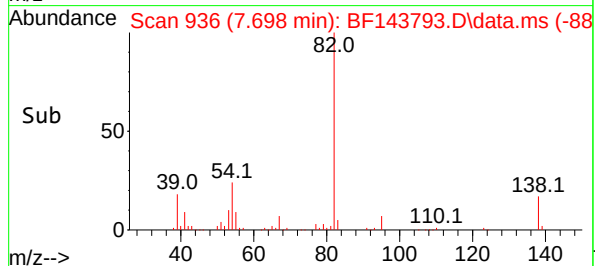
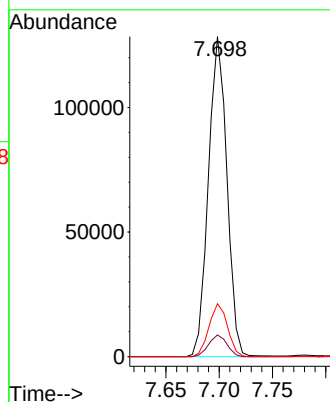
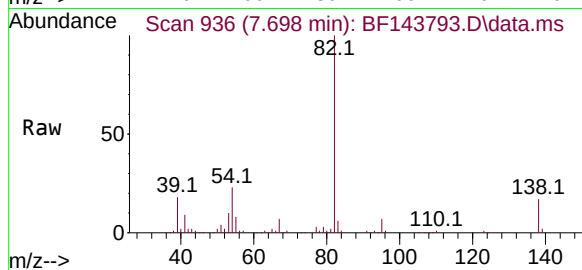
Tgt Ion: 82 Resp: 155268

Ion Ratio Lower Upper

82 100

95 6.8 5.4 8.2

138 16.5 13.7 20.5



#26

2-Nitrophenol

Concen: 9.284 ng

RT: 7.781 min Scan# 950

Delta R.T. -0.005 min

Lab File: BF143793.D

Acq: 23 Sep 2025 11:57

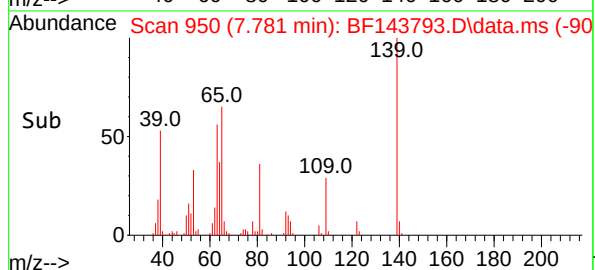
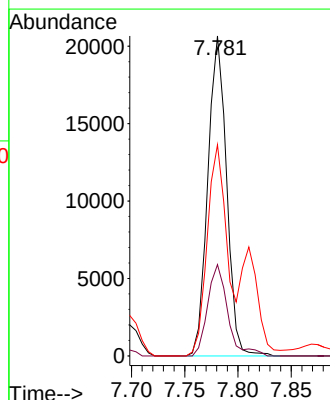
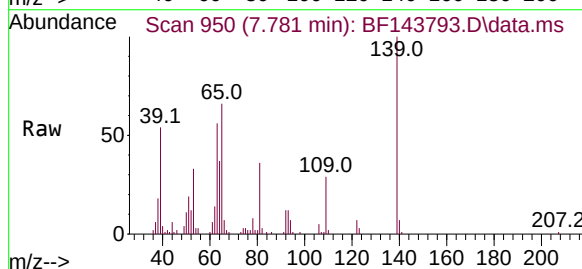
Tgt Ion: 139 Resp: 25281

Ion Ratio Lower Upper

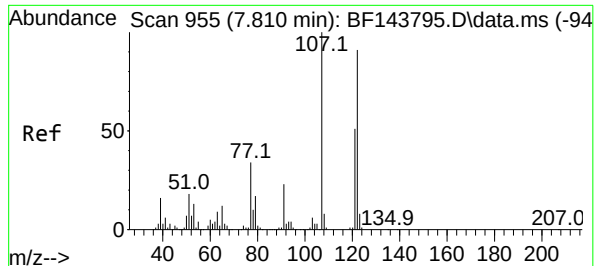
139 100

109 28.5 23.3 34.9

65 66.0 53.8 80.6



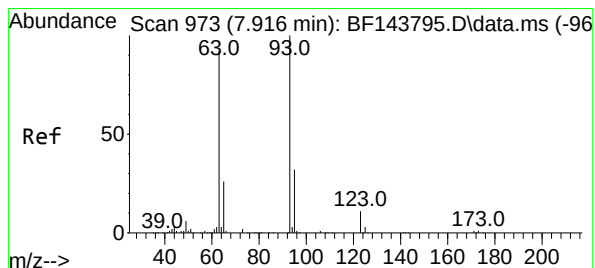
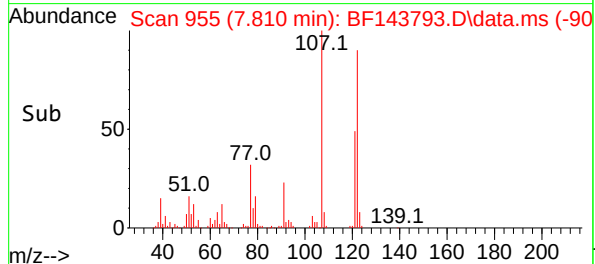
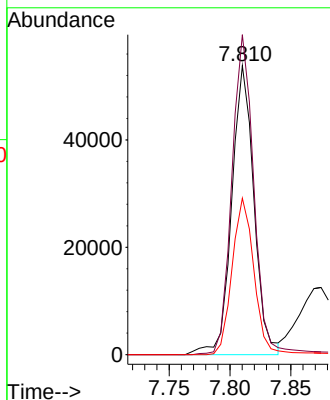
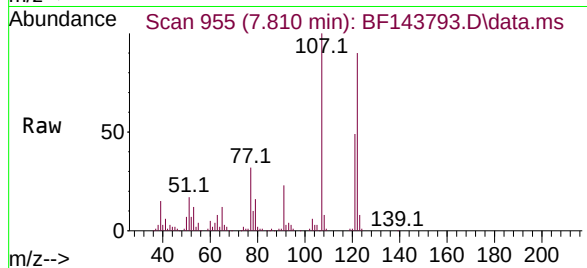




#27  
2,4-Dimethylphenol  
Concen: 9.833 ng  
RT: 7.810 min Scan# 911  
Delta R.T. -0.006 min  
Lab File: BF143793.D  
Acq: 23 Sep 2025 11:57

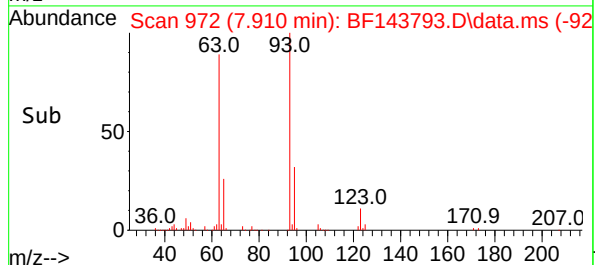
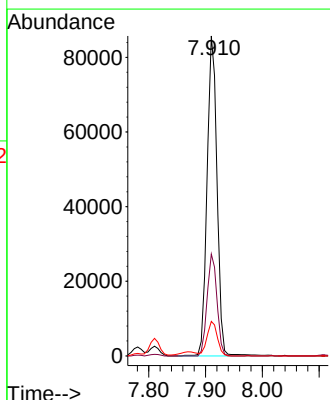
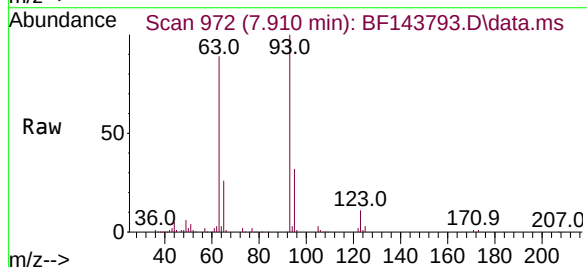
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC010

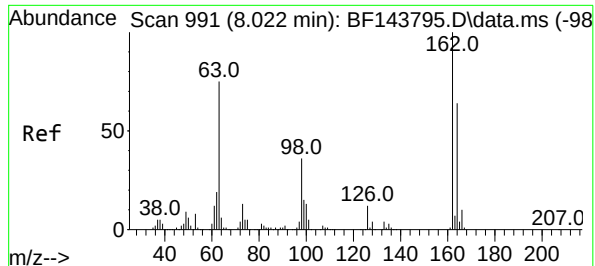
Tgt Ion:122 Resp: 68320  
Ion Ratio Lower Upper  
122 100  
107 110.8 87.5 131.3  
121 54.2 44.2 66.4



#28  
bis(2-Chloroethoxy)methane  
Concen: 10.387 ng  
RT: 7.910 min Scan# 972  
Delta R.T. -0.006 min  
Lab File: BF143793.D  
Acq: 23 Sep 2025 11:57

Tgt Ion: 93 Resp: 104902  
Ion Ratio Lower Upper  
93 100  
95 31.8 25.8 38.8  
123 10.8 8.8 13.2





#29

2,4-Dichlorophenol

Concen: 10.200 ng

RT: 8.016 min Scan# 991

Delta R.T. -0.006 min

Lab File: BF143793.D

Acq: 23 Sep 2025 11:57

Instrument :

BNA\_F

ClientSampleId :

SSTDICC010

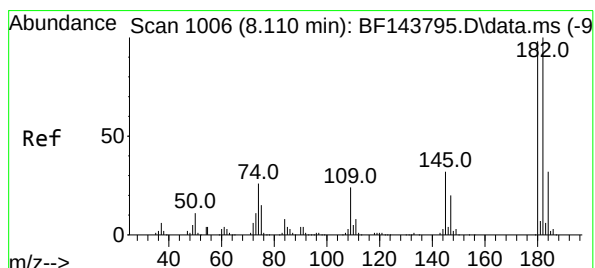
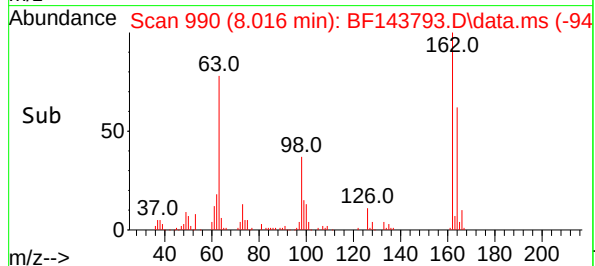
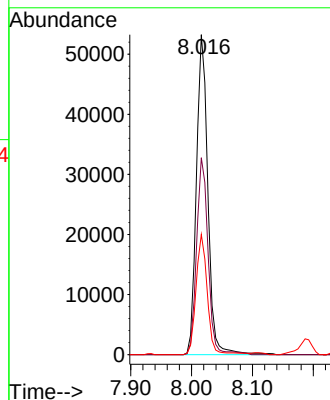
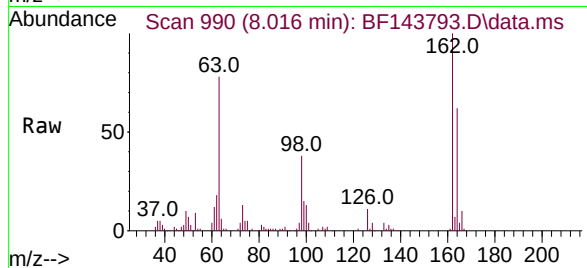
Tgt Ion:162 Resp: 69731

Ion Ratio Lower Upper

162 100

164 61.5 44.1 84.1

98 37.5 15.8 55.8



#30

1,2,4-Trichlorobenzene

Concen: 9.914 ng

RT: 8.110 min Scan# 1006

Delta R.T. 0.000 min

Lab File: BF143793.D

Acq: 23 Sep 2025 11:57

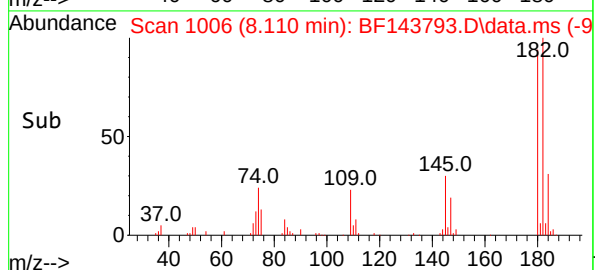
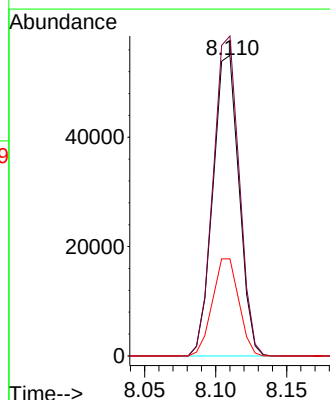
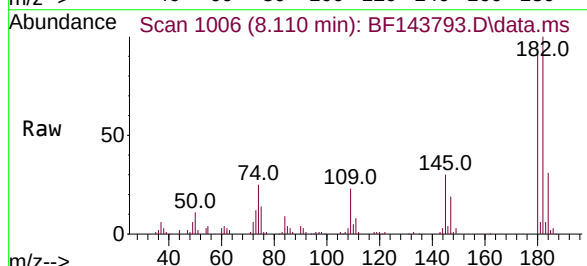
Tgt Ion:180 Resp: 70340

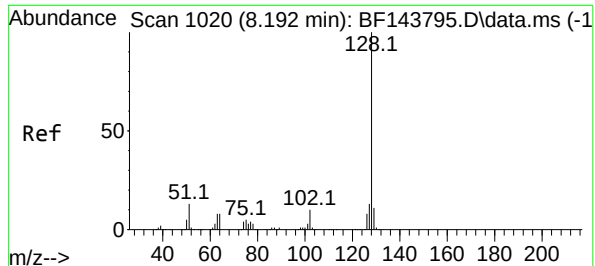
Ion Ratio Lower Upper

180 100

182 106.5 82.0 123.0

145 32.3 25.9 38.9





#31

Naphthalene

Concen: 10.662 ng

RT: 8.187 min Scan# 10

Delta R.T. -0.006 min

Lab File: BF143793.D

Acq: 23 Sep 2025 11:57

Instrument :

BNA\_F

ClientSampleId :

SSTDICC010

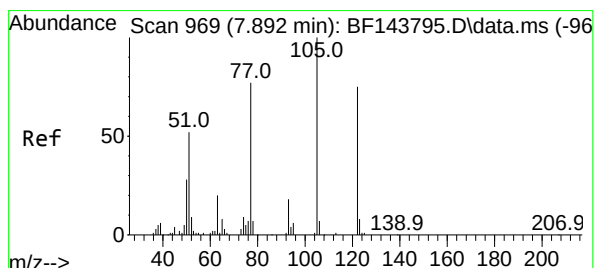
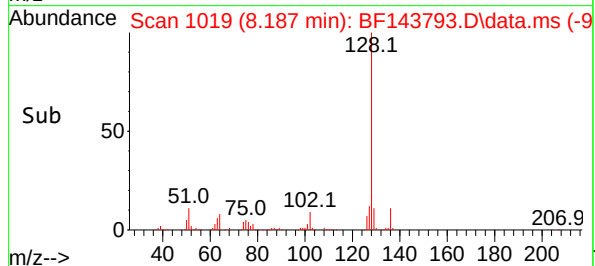
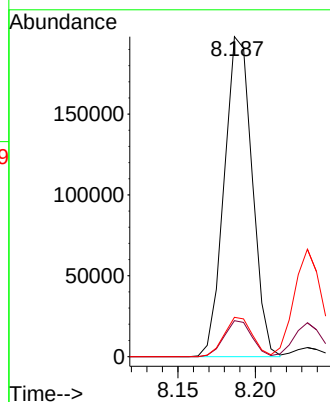
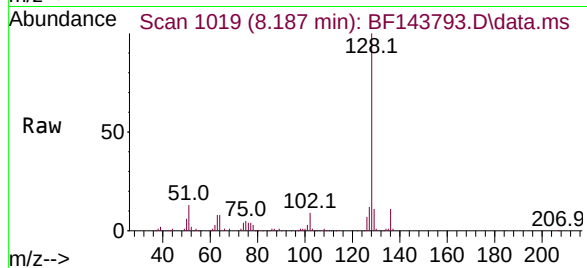
Tgt Ion:128 Resp: 249230

Ion Ratio Lower Upper

128 100

129 11.3 8.8 13.2

127 12.3 10.2 15.4



#32

Benzoic acid

Concen: 9.023 ng

RT: 7.875 min Scan# 966

Delta R.T. -0.047 min

Lab File: BF143793.D

Acq: 23 Sep 2025 11:57

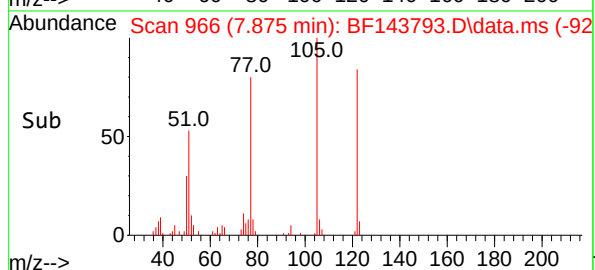
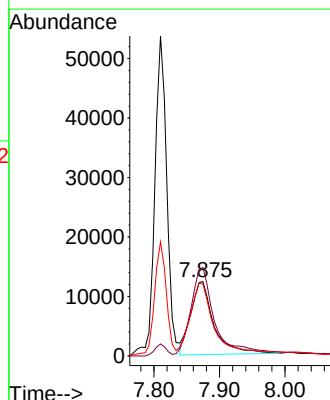
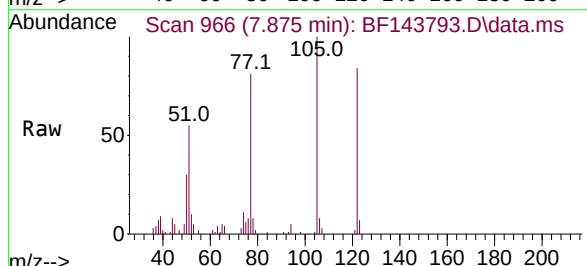
Tgt Ion:122 Resp: 30248

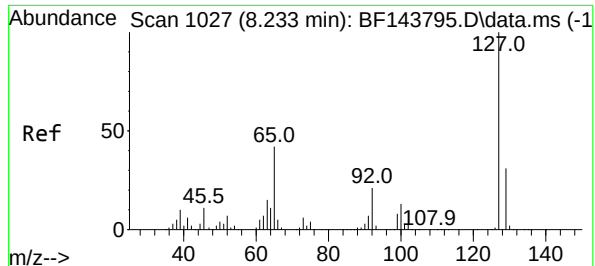
Ion Ratio Lower Upper

122 100

105 118.9 103.7 143.7

77 96.9 78.8 118.8

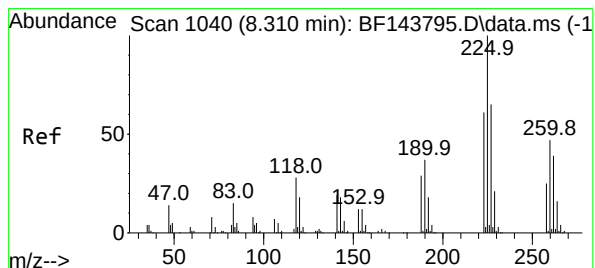
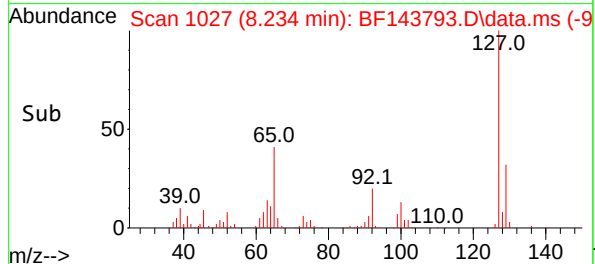
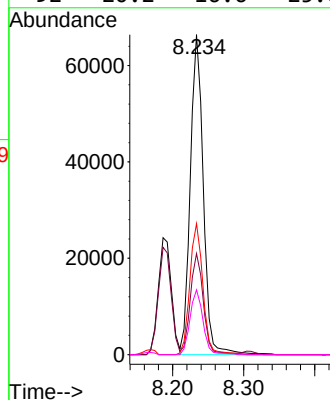
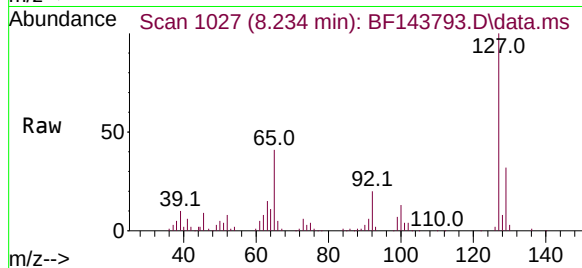




#33  
4-Chloroaniline  
Concen: 10.316 ng  
RT: 8.234 min Scan# 1027  
Delta R.T. -0.006 min  
Lab File: BF143793.D  
Acq: 23 Sep 2025 11:57

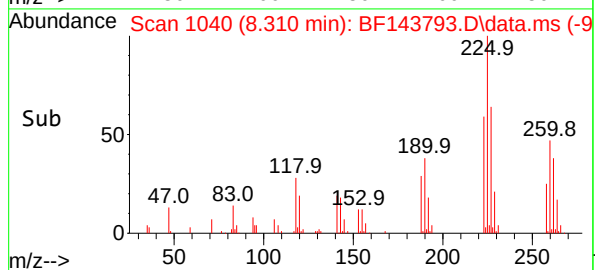
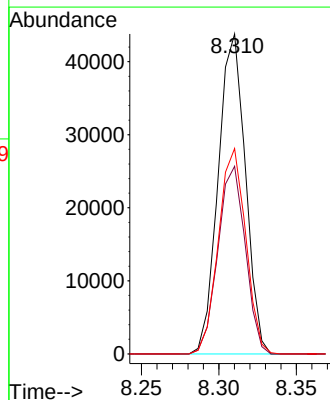
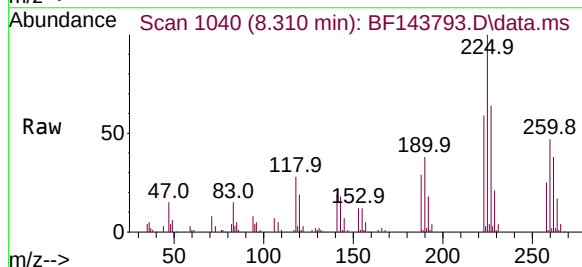
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC010

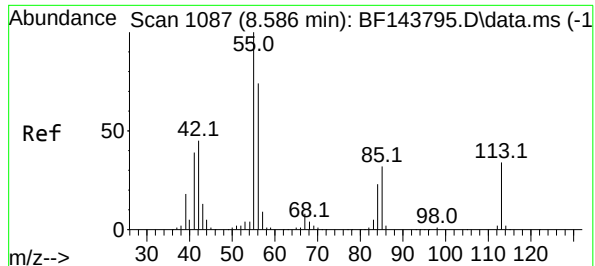
|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:127 | Resp: | 84740       |
| Ion         | Ratio | Lower Upper |
| 127         | 100   |             |
| 129         | 31.6  | 25.4 38.2   |
| 65          | 40.9  | 33.4 50.2   |
| 92          | 20.2  | 16.6 25.0   |



#34  
Hexachlorobutadiene  
Concen: 10.103 ng  
RT: 8.310 min Scan# 1040  
Delta R.T. 0.000 min  
Lab File: BF143793.D  
Acq: 23 Sep 2025 11:57

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:225 | Resp: | 53434       |
| Ion         | Ratio | Lower Upper |
| 225         | 100   |             |
| 223         | 58.6  | 48.6 72.8   |
| 227         | 64.2  | 51.9 77.9   |

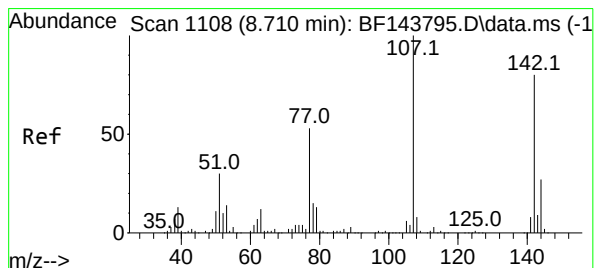
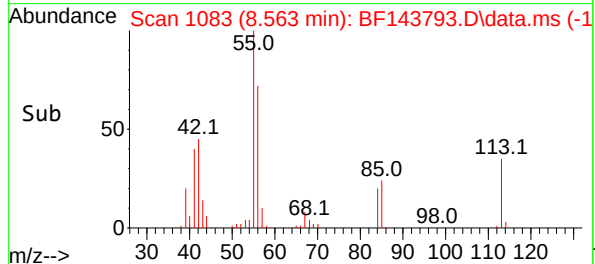
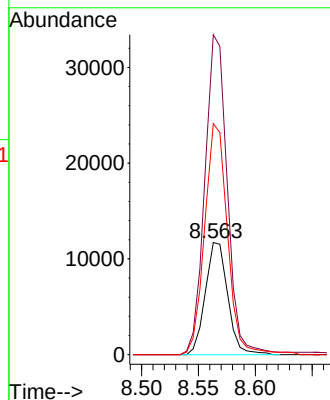
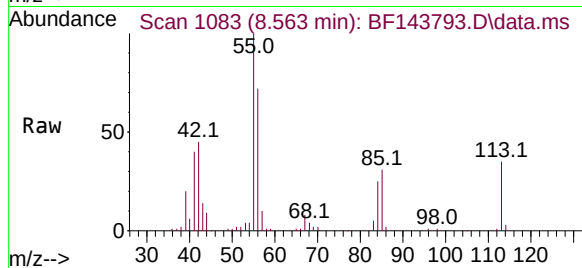




#35  
Caprolactam  
Concen: 9.192 ng  
RT: 8.563 min Scan# 1107  
Delta R.T. -0.047 min  
Lab File: BF143793.D  
Acq: 23 Sep 2025 11:57

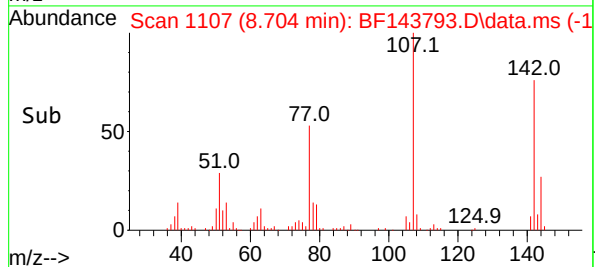
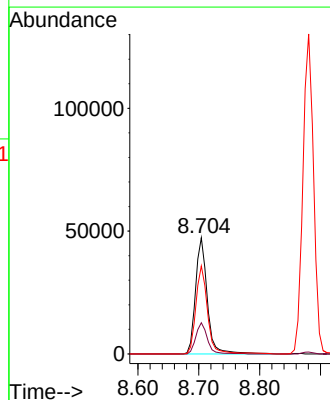
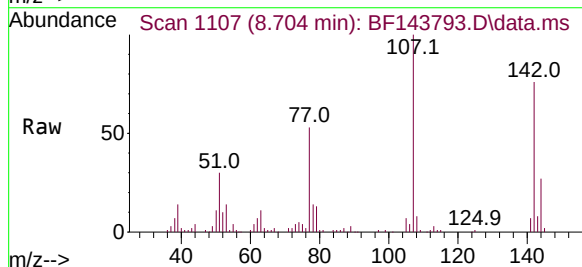
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC010

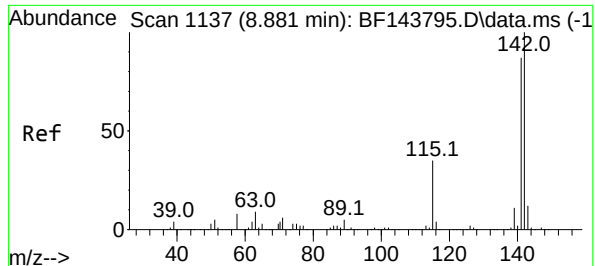
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 55      | 285.6 | 271.7 | 311.7 |
| 56      | 206.2 | 194.5 | 234.5 |



#36  
4-Chloro-3-methylphenol  
Concen: 9.882 ng  
RT: 8.704 min Scan# 1107  
Delta R.T. -0.006 min  
Lab File: BF143793.D  
Acq: 23 Sep 2025 11:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 107     | 100   |       |       |
| 144     | 26.7  | 21.8  | 32.8  |
| 142     | 75.7  | 63.6  | 95.4  |





#37

2-Methylnaphthalene

Concen: 10.644 ng

RT: 8.881 min Scan# 1137

Delta R.T. 0.000 min

Lab File: BF143793.D

Acq: 23 Sep 2025 11:57

Instrument :

BNA\_F

ClientSampleId :

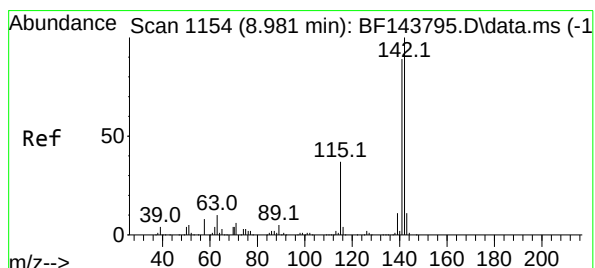
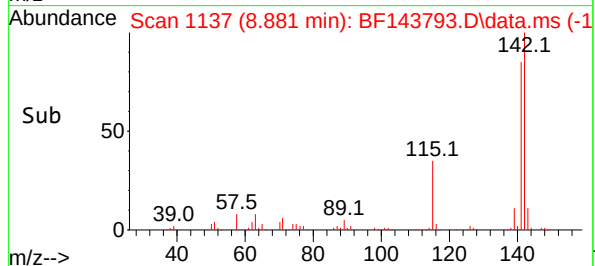
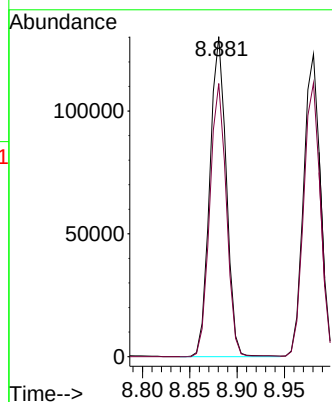
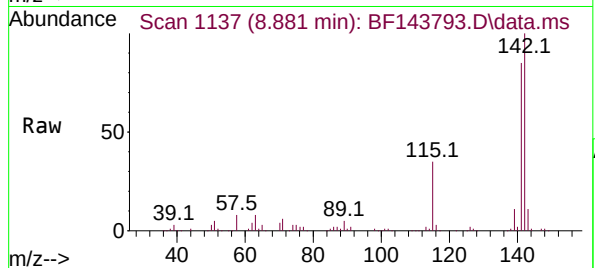
SSTDIC010

Tgt Ion:142 Resp: 158654

Ion Ratio Lower Upper

142 100

141 85.3 69.4 104.0



#38

1-Methylnaphthalene

Concen: 10.572 ng

RT: 8.981 min Scan# 1154

Delta R.T. 0.000 min

Lab File: BF143793.D

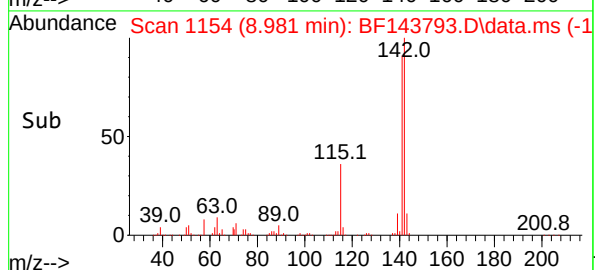
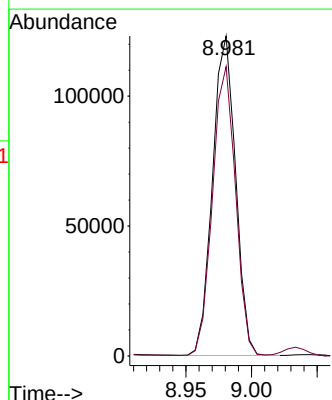
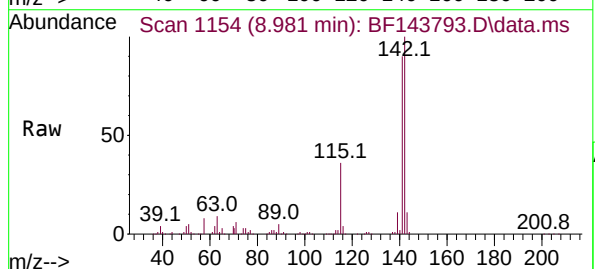
Acq: 23 Sep 2025 11:57

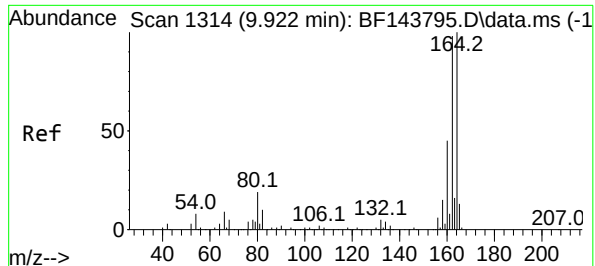
Tgt Ion:142 Resp: 150831

Ion Ratio Lower Upper

142 100

141 90.4 71.1 106.7

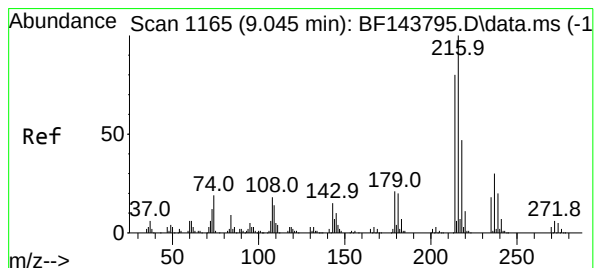
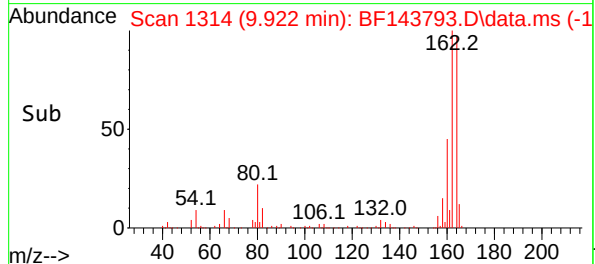
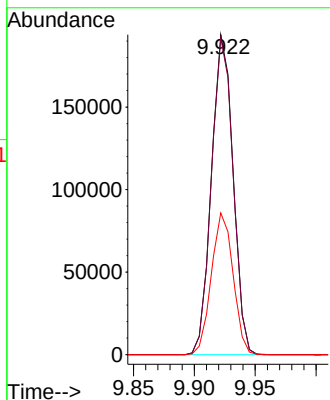
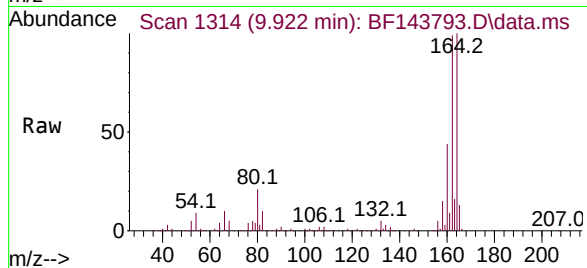




#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.922 min Scan# 1314  
Delta R.T. -0.006 min  
Lab File: BF143793.D  
Acq: 23 Sep 2025 11:57

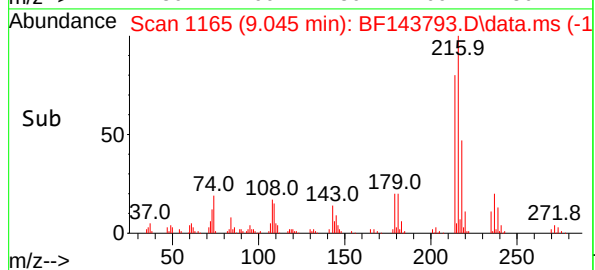
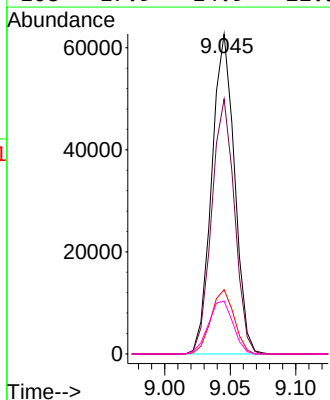
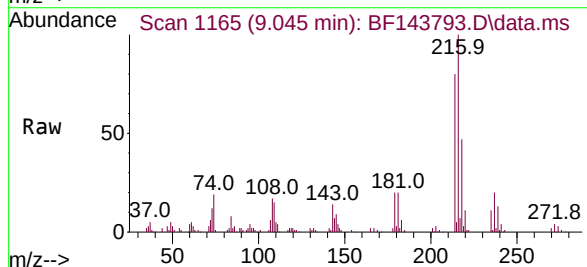
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC010

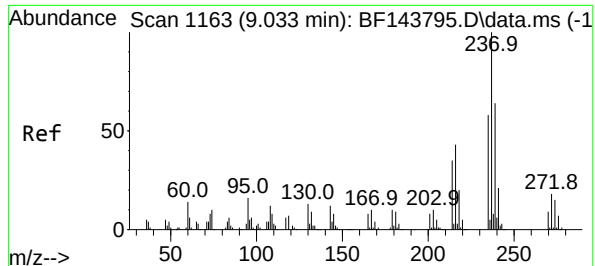
Tgt Ion:164 Resp: 239396  
Ion Ratio Lower Upper  
164 100  
162 99.0 78.8 118.2  
160 44.3 35.8 53.6



#40  
1,2,4,5-Tetrachlorobenzene  
Concen: 10.509 ng  
RT: 9.045 min Scan# 1165  
Delta R.T. -0.006 min  
Lab File: BF143793.D  
Acq: 23 Sep 2025 11:57

Tgt Ion:216 Resp: 75923  
Ion Ratio Lower Upper  
216 100  
214 79.8 63.7 95.5  
179 20.4 16.5 24.7  
108 17.9 14.9 22.3

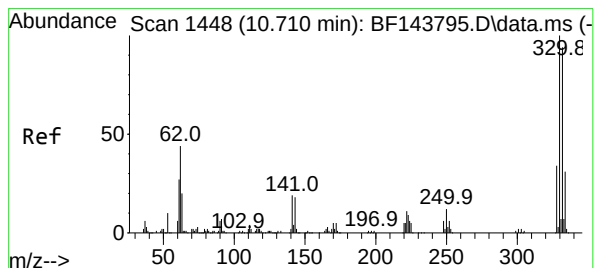
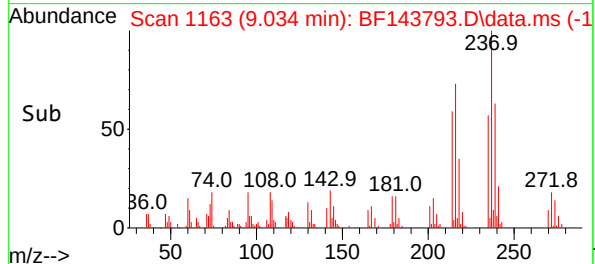
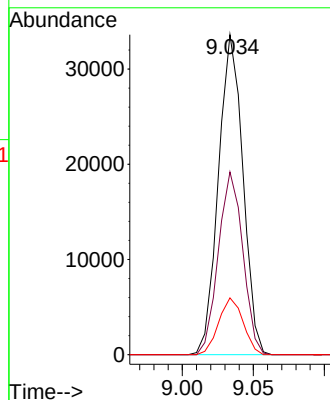
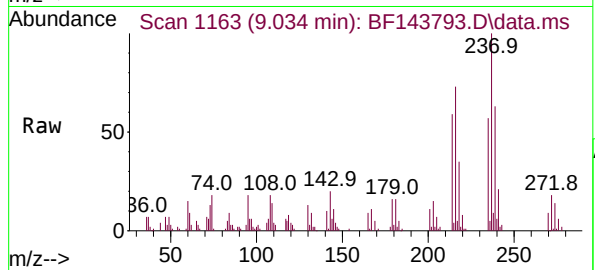




#41  
Hexachlorocyclopentadiene  
Concen: 8.792 ng  
RT: 9.034 min Scan# 1163  
Delta R.T. -0.006 min  
Lab File: BF143793.D  
Acq: 23 Sep 2025 11:57

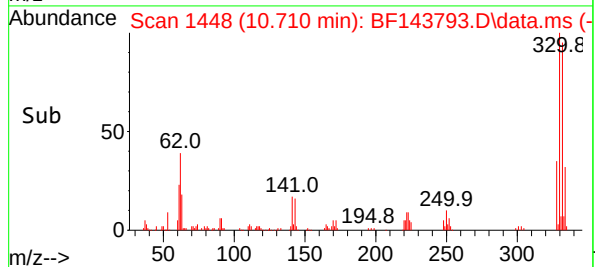
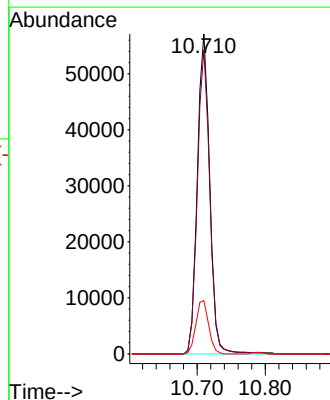
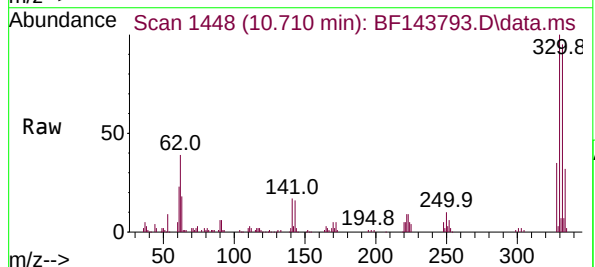
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDIC010

Tgt Ion:237 Resp: 40258  
Ion Ratio Lower Upper  
237 100  
235 57.1 38.1 78.1  
272 17.7 0.0 37.9

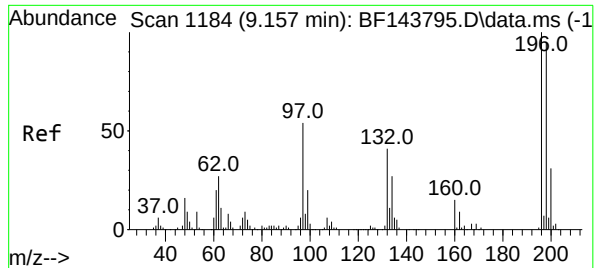


#42  
2,4,6-Tribromophenol  
Concen: 21.225 ng  
RT: 10.710 min Scan# 1448  
Delta R.T. -0.006 min  
Lab File: BF143793.D  
Acq: 23 Sep 2025 11:57

Tgt Ion:330 Resp: 72517  
Ion Ratio Lower Upper  
330 100  
332 94.6 74.7 112.1  
141 17.0 14.3 21.5







#43

2,4,6-Trichlorophenol

Concen: 9.474 ng

RT: 9.151 min Scan# 1183

Delta R.T. -0.006 min

Lab File: BF143793.D

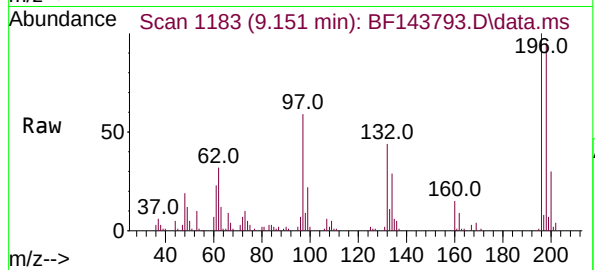
Acq: 23 Sep 2025 11:57

Instrument :

BNA\_F

ClientSampleId :

SSTDICC010



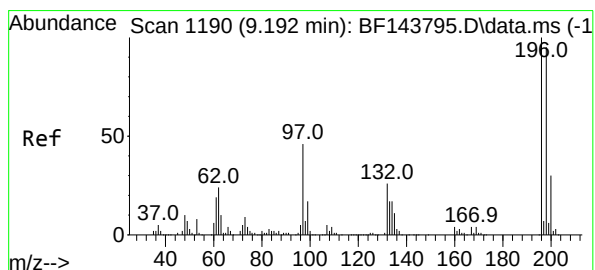
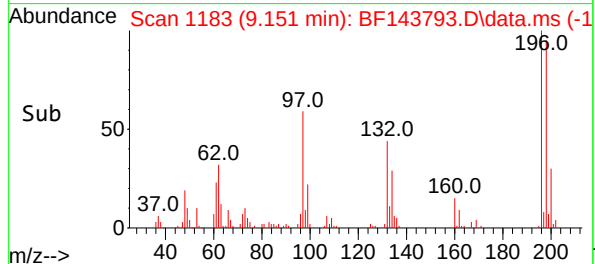
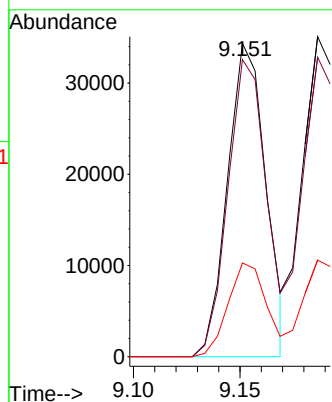
Tgt Ion:196 Resp: 42859

Ion Ratio Lower Upper

196 100

198 94.8 76.2 114.2

200 29.9 24.7 37.1



#44

2,4,5-Trichlorophenol

Concen: 9.889 ng

RT: 9.186 min Scan# 1189

Delta R.T. -0.006 min

Lab File: BF143793.D

Acq: 23 Sep 2025 11:57

Tgt Ion:196 Resp: 46791

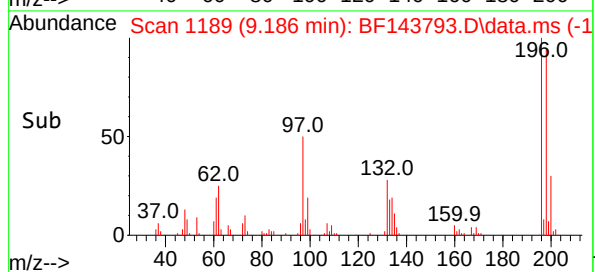
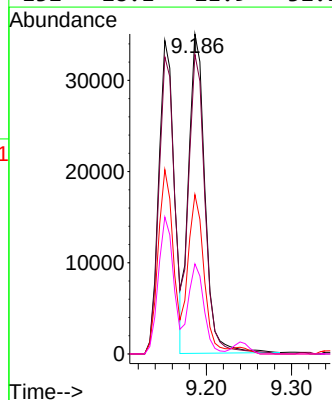
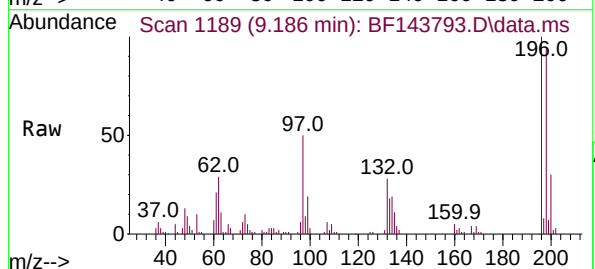
Ion Ratio Lower Upper

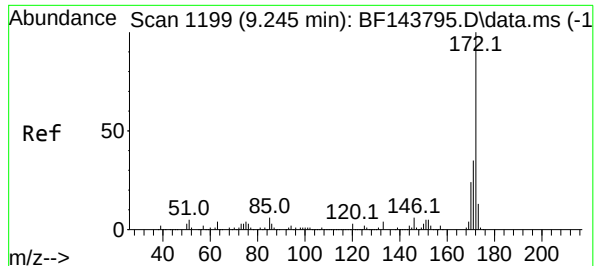
196 100

198 93.6 75.9 113.9

97 49.8 38.3 57.5

132 28.1 21.9 32.9





#45

2-Fluorobiphenyl

Concen: 21.809 ng

RT: 9.239 min Scan# 1199

Delta R.T. -0.006 min

Lab File: BF143793.D

Acq: 23 Sep 2025 11:57

Instrument :

BNA\_F

ClientSampleId :

SSTDICC010

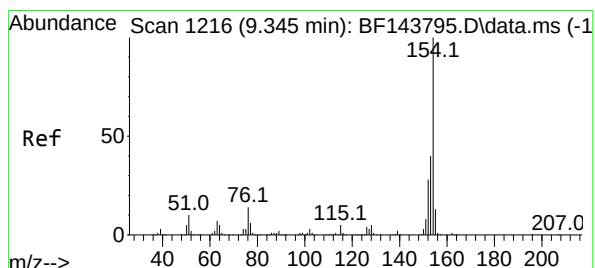
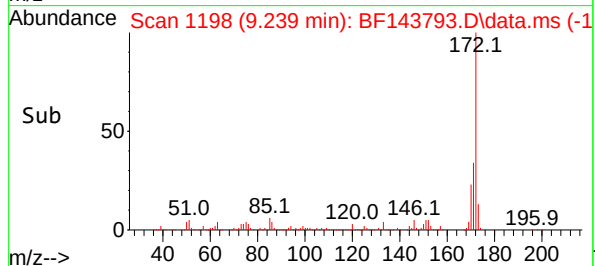
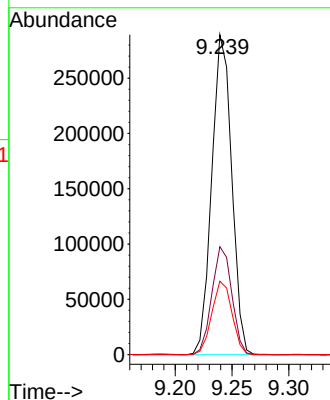
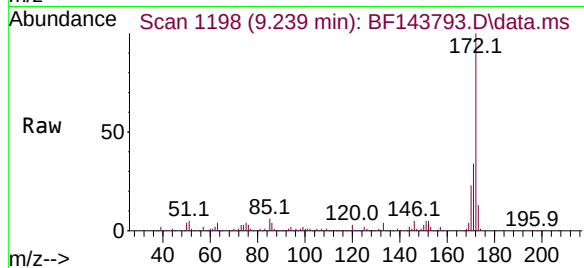
Tgt Ion:172 Resp: 353299

Ion Ratio Lower Upper

172 100

171 33.7 27.9 41.9

170 22.9 19.1 28.7



#46

1,1'-Biphenyl

Concen: 10.644 ng

RT: 9.345 min Scan# 1216

Delta R.T. 0.000 min

Lab File: BF143793.D

Acq: 23 Sep 2025 11:57

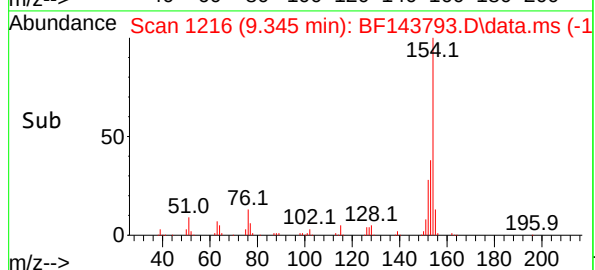
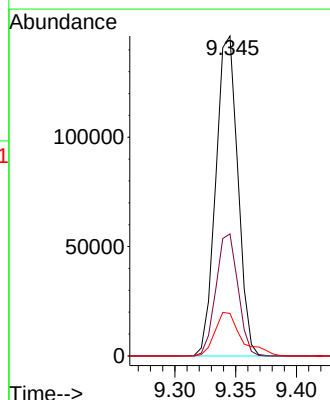
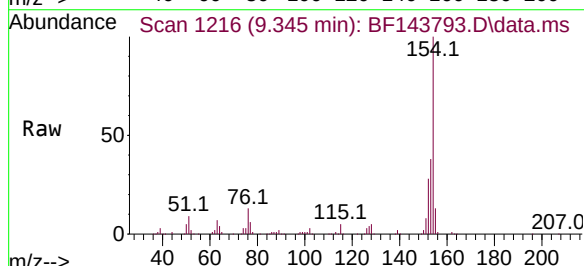
Tgt Ion:154 Resp: 184443

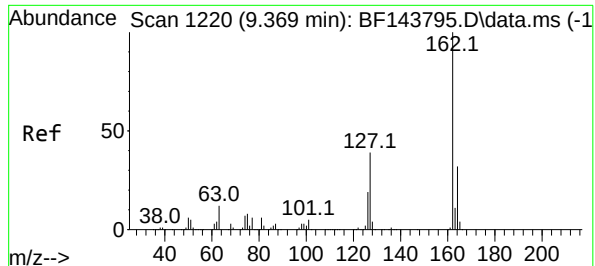
Ion Ratio Lower Upper

154 100

153 38.1 19.7 59.7

76 13.3 0.0 33.8





#47

2-Chloronaphthalene

Concen: 10.496 ng

RT: 9.369 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF143793.D

Acq: 23 Sep 2025 11:57

Instrument :

BNA\_F

ClientSampleId :

SSTDICC010

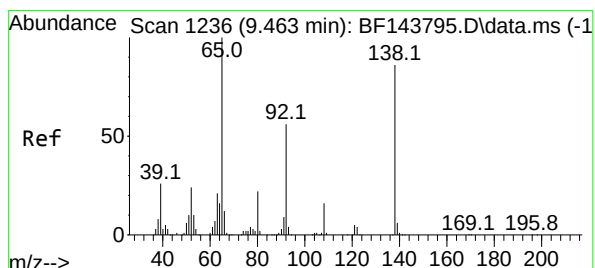
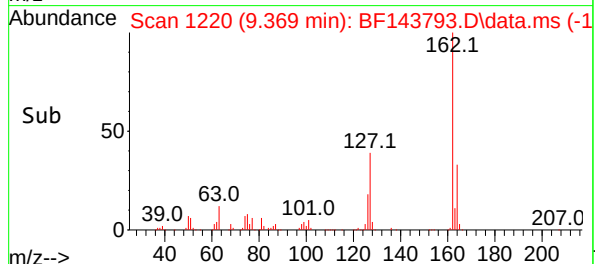
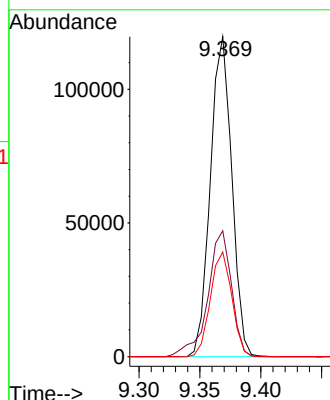
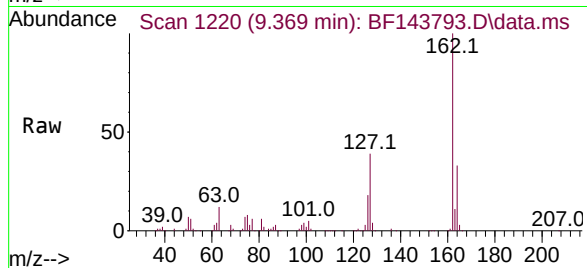
Tgt Ion:162 Resp: 146409

Ion Ratio Lower Upper

162 100

127 39.3 31.5 47.3

164 32.7 25.9 38.9



#48

2-Nitroaniline

Concen: 8.646 ng

RT: 9.457 min Scan# 1235

Delta R.T. -0.006 min

Lab File: BF143793.D

Acq: 23 Sep 2025 11:57

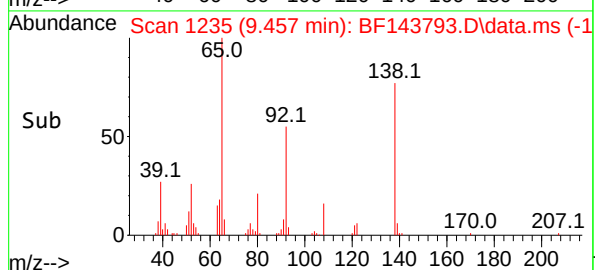
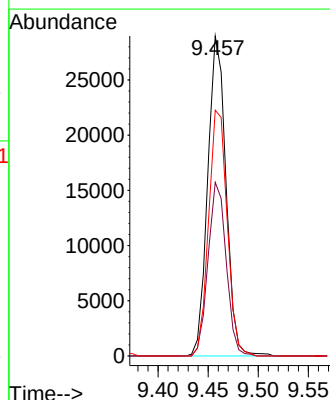
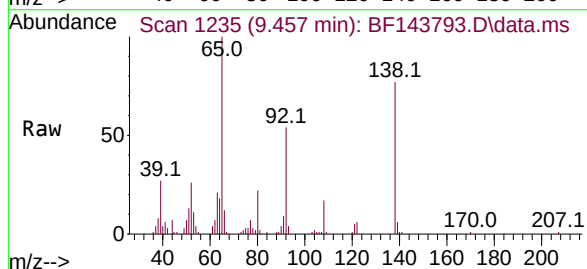
Tgt Ion: 65 Resp: 36451

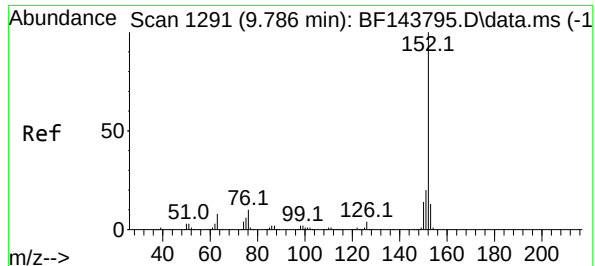
Ion Ratio Lower Upper

65 100

92 54.2 44.9 67.3

138 76.8 69.0 103.4





#49

Acenaphthylene

Concen: 10.338 ng

RT: 9.781 min Scan# 1290

Delta R.T. -0.006 min

Lab File: BF143793.D

Acq: 23 Sep 2025 11:57

Instrument :

BNA\_F

ClientSampleId :

SSTDICC010

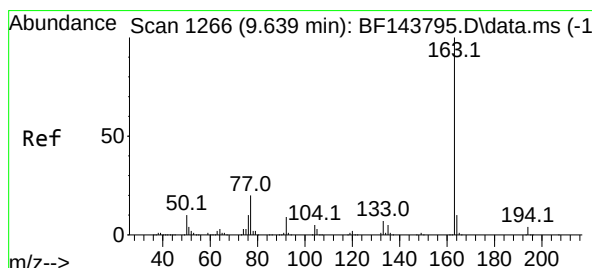
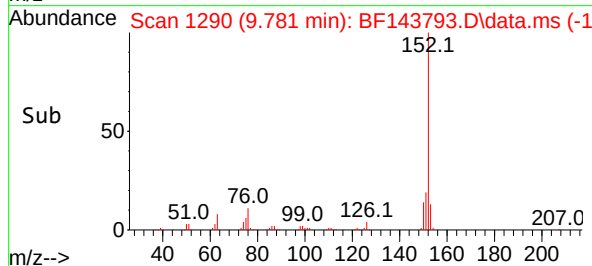
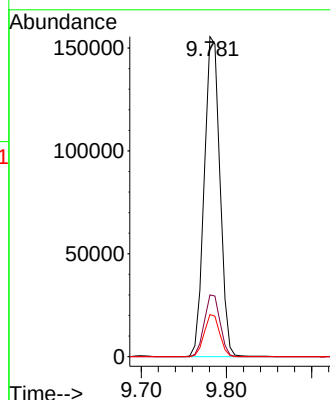
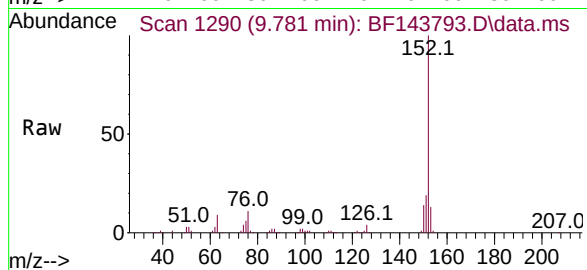
Tgt Ion:152 Resp: 198522

Ion Ratio Lower Upper

152 100

151 19.3 15.7 23.5

153 13.2 10.6 15.8



#50

Dimethylphthalate

Concen: 10.118 ng

RT: 9.633 min Scan# 1265

Delta R.T. -0.006 min

Lab File: BF143793.D

Acq: 23 Sep 2025 11:57

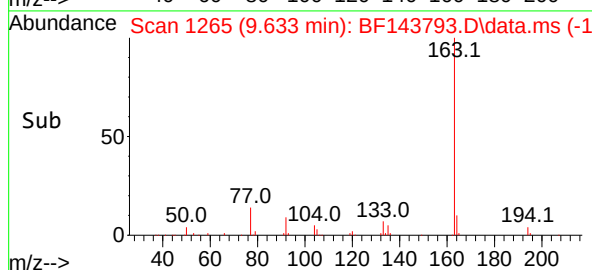
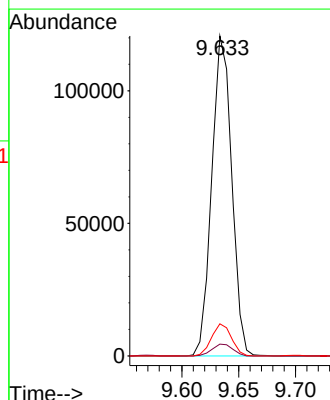
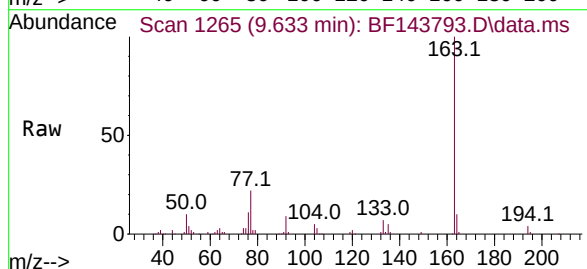
Tgt Ion:163 Resp: 147631

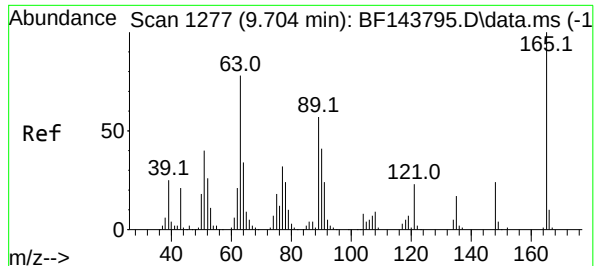
Ion Ratio Lower Upper

163 100

194 3.7 3.0 4.6

164 10.0 8.2 12.2

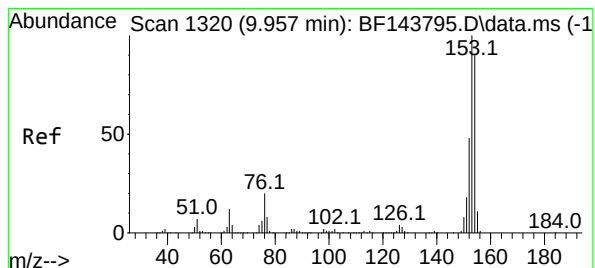
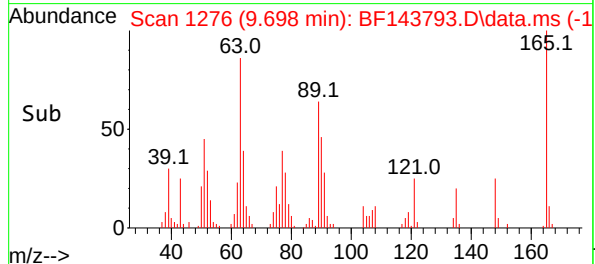
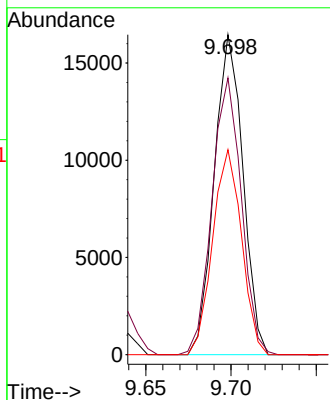
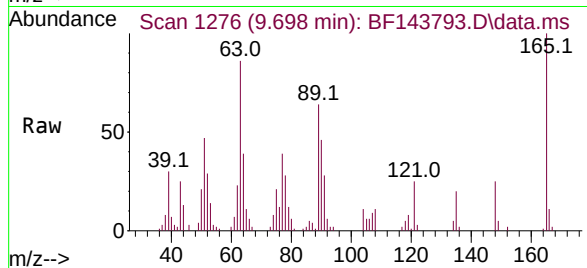




#51  
2,6-Dinitrotoluene  
Concen: 8.025 ng  
RT: 9.698 min Scan# 1276  
Delta R.T. -0.006 min  
Lab File: BF143793.D  
Acq: 23 Sep 2025 11:57

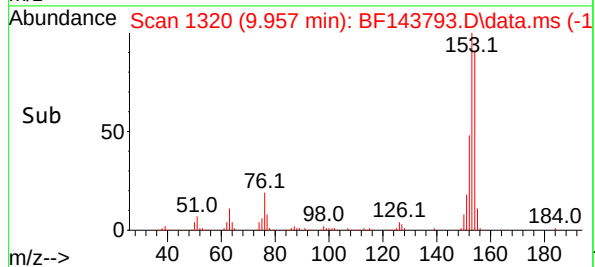
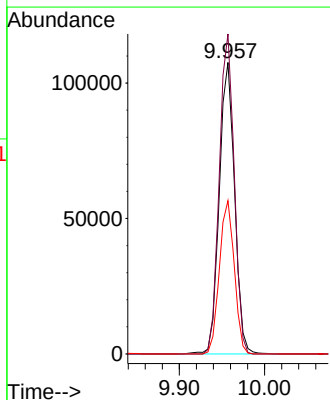
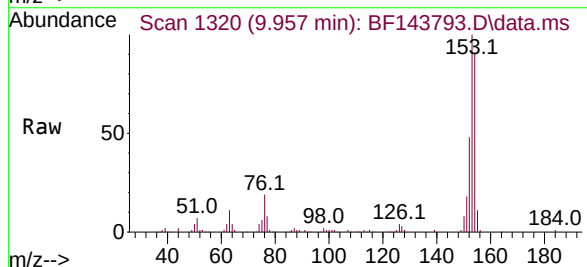
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDIC010

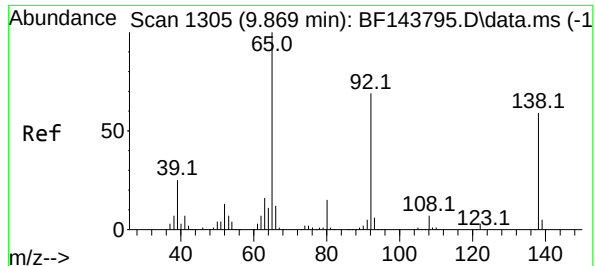
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 86.5  | 62.6  | 94.0  |
| 89      | 64.0  | 45.2  | 67.8  |



#52  
Acenaphthene  
Concen: 10.619 ng  
RT: 9.957 min Scan# 1320  
Delta R.T. -0.006 min  
Lab File: BF143793.D  
Acq: 23 Sep 2025 11:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 109.8 | 88.7  | 133.1 |
| 152     | 52.6  | 42.7  | 64.1  |

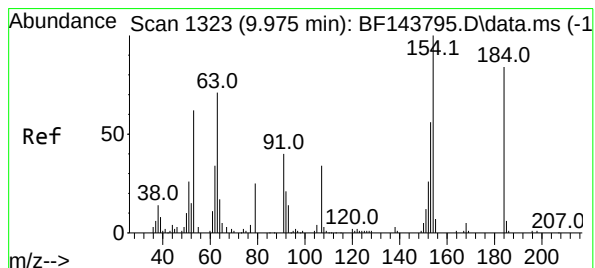
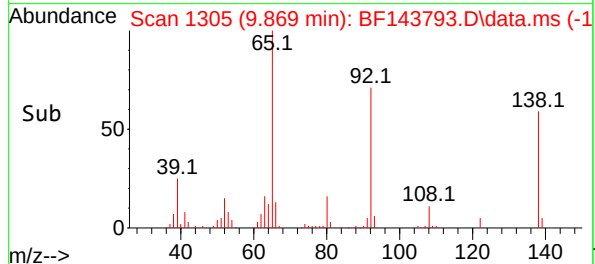
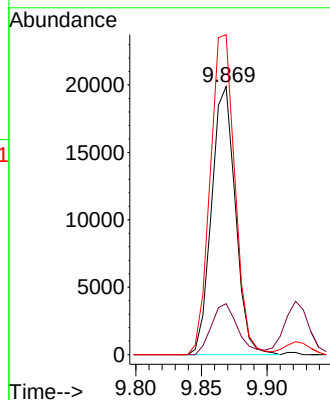
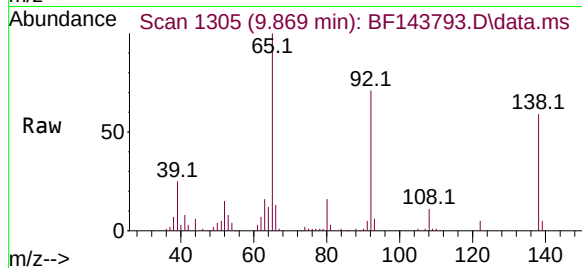




#53  
3-Nitroaniline  
Concen: 8.650 ng  
RT: 9.869 min Scan# 1305  
Delta R.T. -0.006 min  
Lab File: BF143793.D  
Acq: 23 Sep 2025 11:57

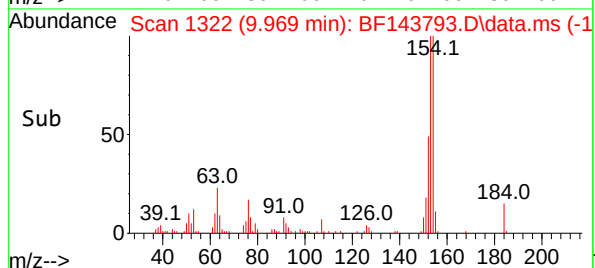
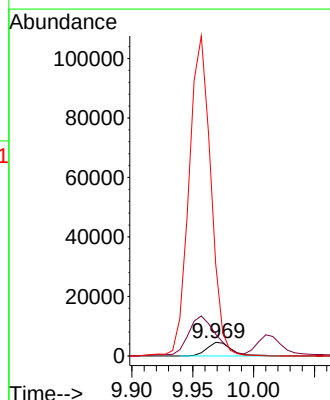
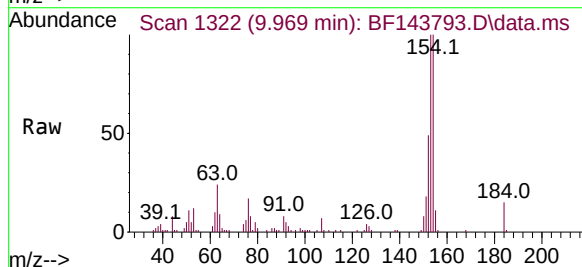
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC010

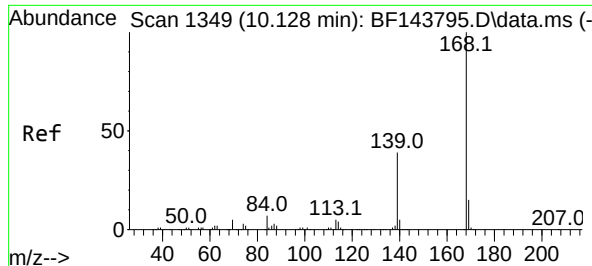
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 138     | 100   |       |       |
| 108     | 19.0  | 9.9   | 14.9# |
| 92      | 119.3 | 93.5  | 140.3 |



#54  
2,4-Dinitrophenol  
Concen: 11.233 ng  
RT: 9.969 min Scan# 1322  
Delta R.T. -0.006 min  
Lab File: BF143793.D  
Acq: 23 Sep 2025 11:57

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 184     | 100   |       |        |
| 63      | 160.0 | 84.6  | 127.0# |
| 154     | 677.6 | 199.3 | 298.9# |





#55

Dibenzofuran

Concen: 10.393 ng

RT: 10.128 min Scan# 1349

Delta R.T. -0.006 min

Lab File: BF143793.D

Acq: 23 Sep 2025 11:57

Instrument :

BNA\_F

ClientSampleId :

SSTDICC010

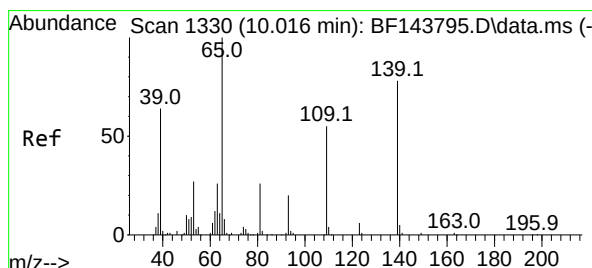
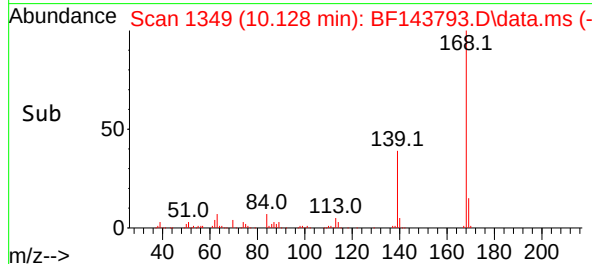
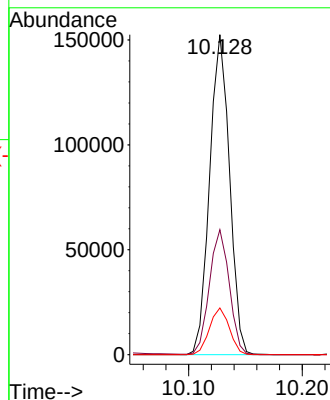
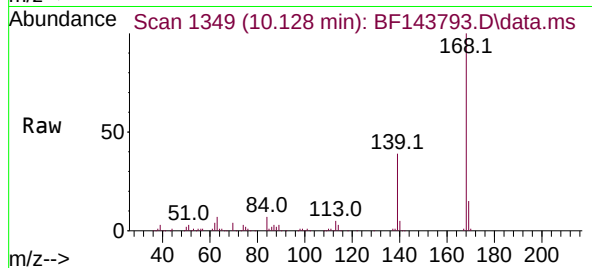
Tgt Ion:168 Resp: 185710

Ion Ratio Lower Upper

168 100

139 39.0 31.0 46.6

169 14.6 11.9 17.9



#56

4-Nitrophenol

Concen: 10.065 ng

RT: 10.016 min Scan# 1330

Delta R.T. -0.006 min

Lab File: BF143793.D

Acq: 23 Sep 2025 11:57

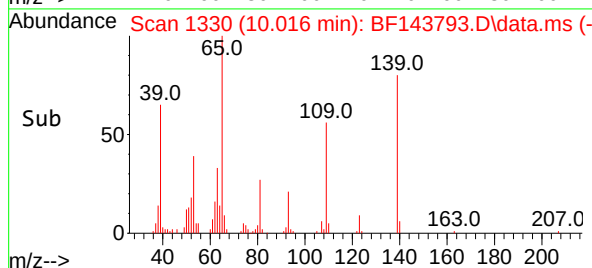
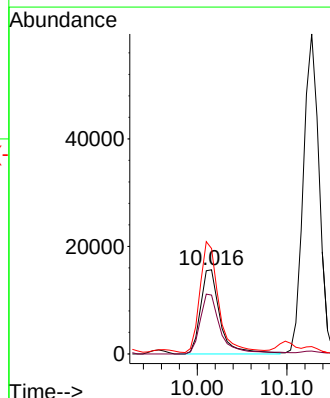
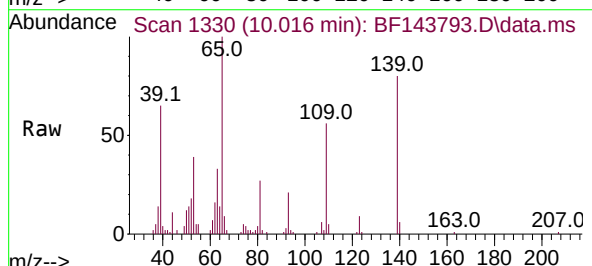
Tgt Ion:139 Resp: 23569

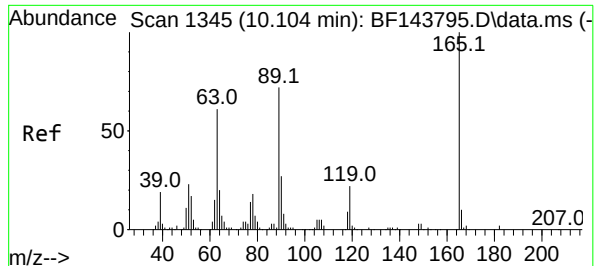
Ion Ratio Lower Upper

139 100

109 69.9 50.2 90.2

65 125.3 109.2 149.2

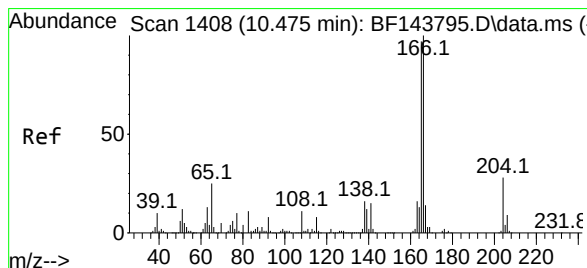
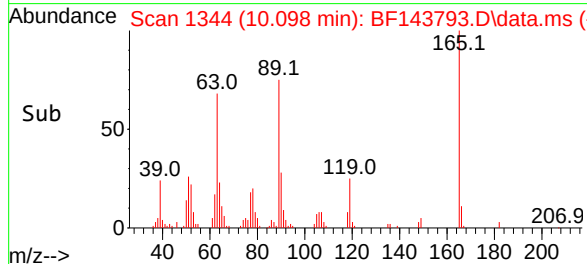
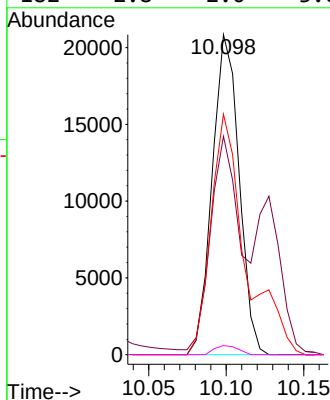
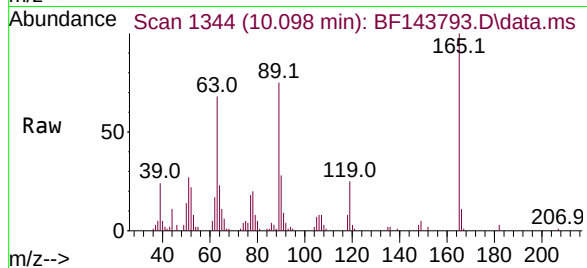




#57  
2,4-Dinitrotoluene  
Concen: 9.543 ng  
RT: 10.098 min Scan# 1344  
Delta R.T. -0.012 min  
Lab File: BF143793.D  
Acq: 23 Sep 2025 11:57

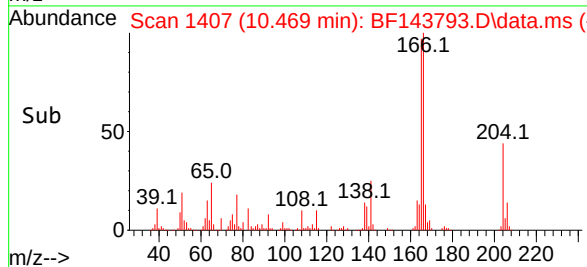
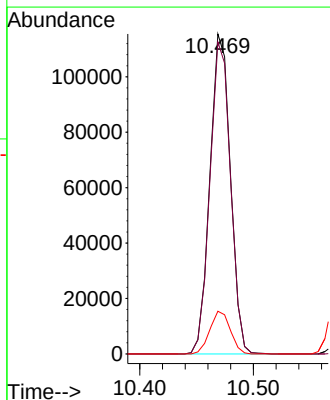
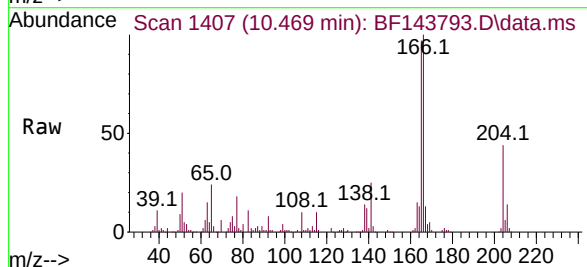
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC010

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 68.2  | 48.9  | 73.3  |
| 89      | 75.1  | 57.5  | 86.3  |
| 182     | 2.8   | 2.0   | 3.0   |

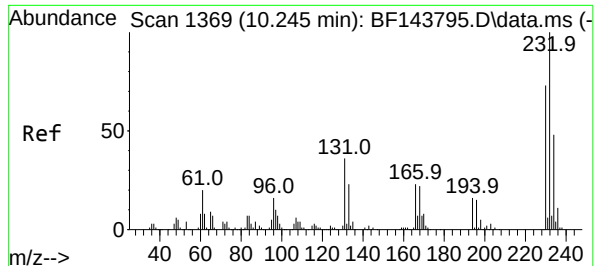


#58  
Fluorene  
Concen: 10.898 ng  
RT: 10.469 min Scan# 1407  
Delta R.T. -0.006 min  
Lab File: BF143793.D  
Acq: 23 Sep 2025 11:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 97.5  | 78.0  | 117.0 |
| 167     | 13.3  | 10.9  | 16.3  |



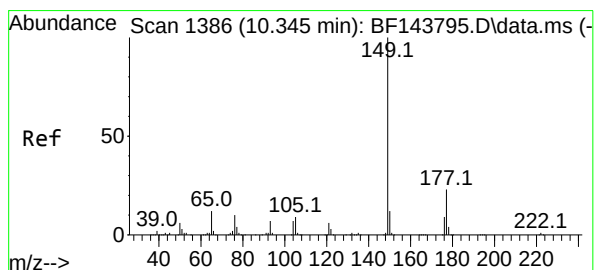
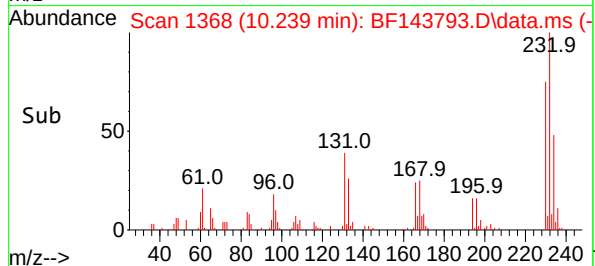
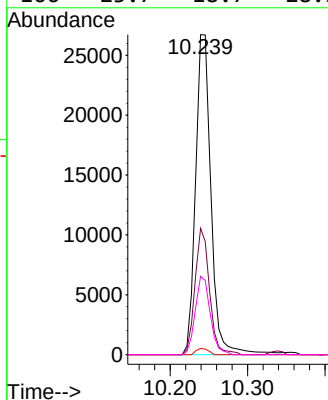
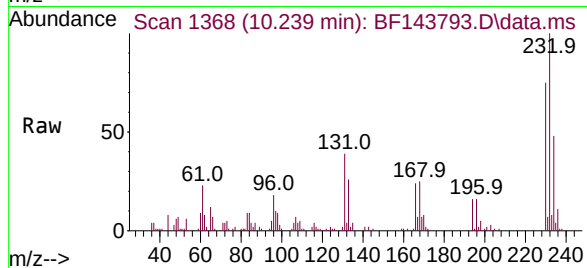




#59  
2,3,4,6-Tetrachlorophenol  
Concen: 9.120 ng  
RT: 10.239 min Scan# 1368  
Delta R.T. -0.006 min  
Lab File: BF143793.D  
Acq: 23 Sep 2025 11:57

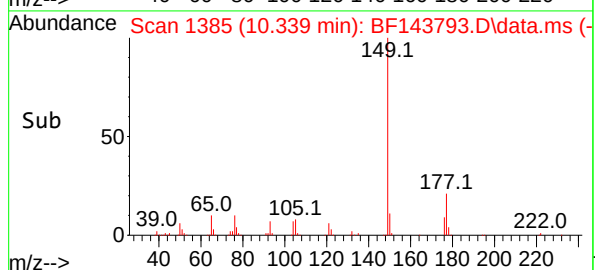
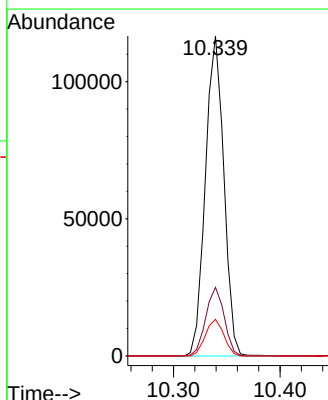
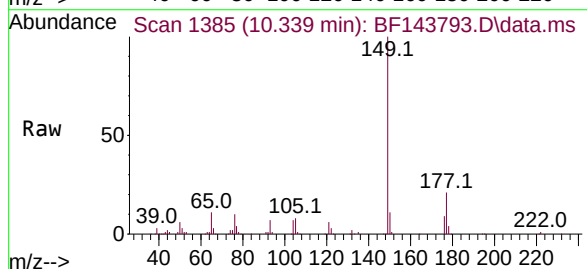
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC010

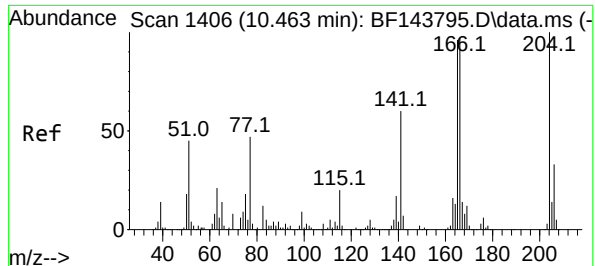
Tgt Ion:232 Resp: 36970  
Ion Ratio Lower Upper  
232 100  
131 37.0 29.4 44.2  
130 1.5 1.3 1.9  
166 23.7 18.7 28.1



#60  
Diethylphthalate  
Concen: 10.254 ng  
RT: 10.339 min Scan# 1385  
Delta R.T. -0.006 min  
Lab File: BF143793.D  
Acq: 23 Sep 2025 11:57

Tgt Ion:149 Resp: 140054  
Ion Ratio Lower Upper  
149 100  
177 21.4 18.1 27.1  
150 11.4 9.7 14.5

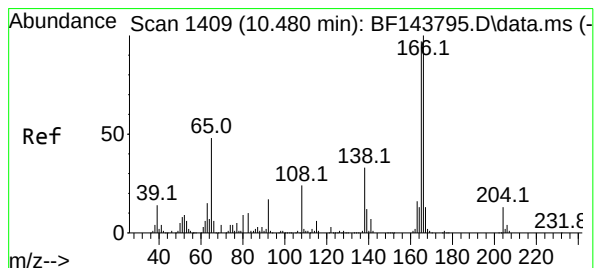
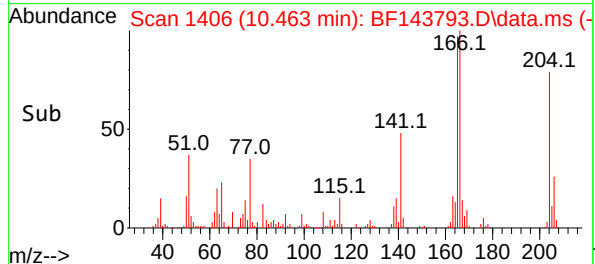
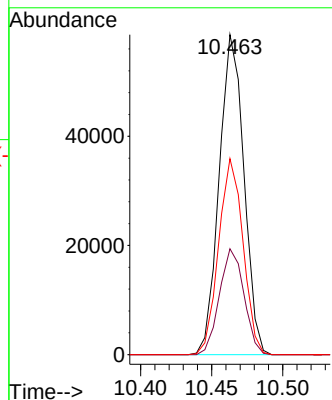
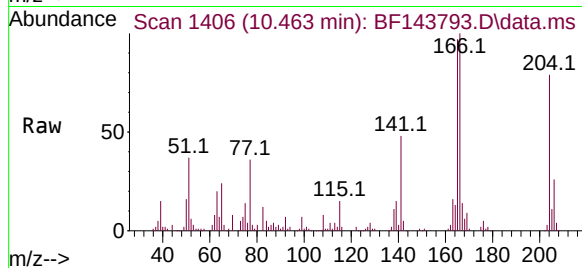




#61  
4-Chlorophenyl-phenylether  
Concen: 10.472 ng  
RT: 10.463 min Scan# 1406  
Delta R.T. -0.006 min  
Lab File: BF143793.D  
Acq: 23 Sep 2025 11:57

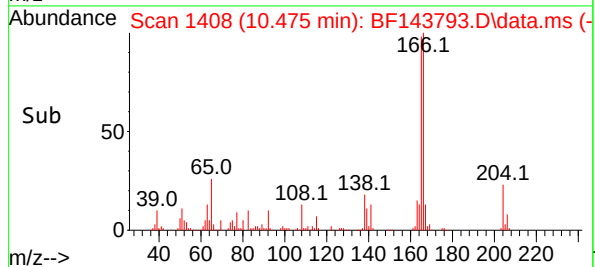
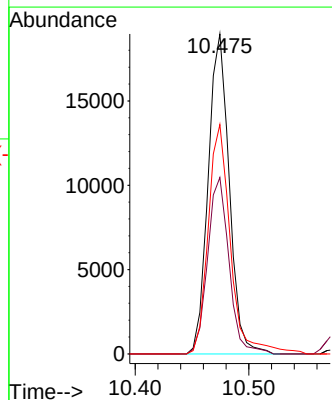
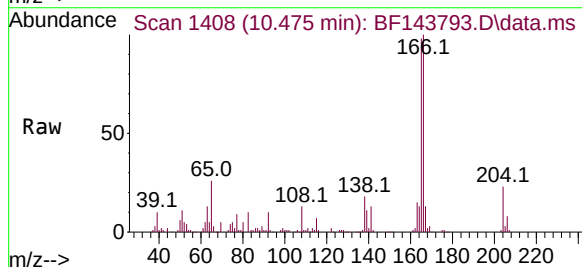
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC010

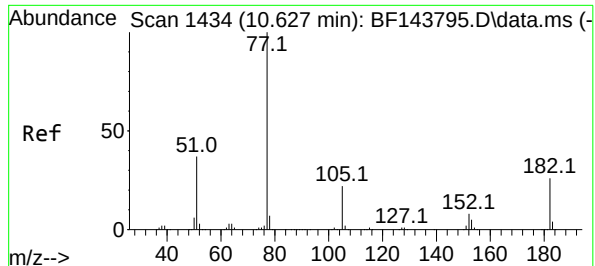
| Tgt Ion | 204   | Resp: | 70883 |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 204     | 100   |       |       |
| 206     | 33.1  | 26.7  | 40.1  |
| 141     | 61.2  | 48.2  | 72.2  |



#62  
4-Nitroaniline  
Concen: 8.943 ng  
RT: 10.475 min Scan# 1408  
Delta R.T. -0.018 min  
Lab File: BF143793.D  
Acq: 23 Sep 2025 11:57

| Tgt Ion | 138   | Resp: | 24435 |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 138     | 100   |       |       |
| 92      | 55.1  | 31.5  | 71.5  |
| 108     | 71.7  | 51.9  | 91.9  |

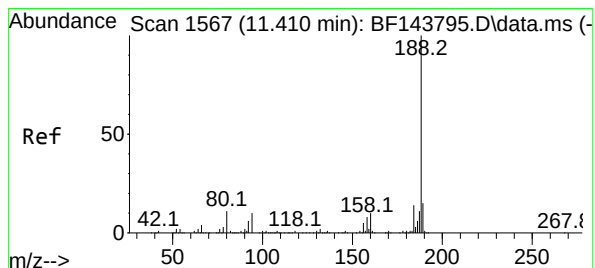
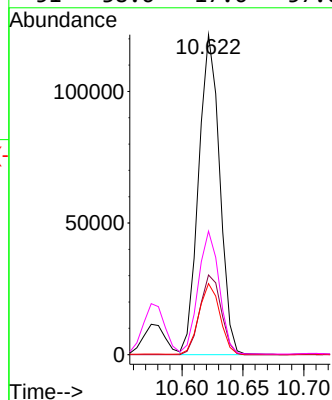
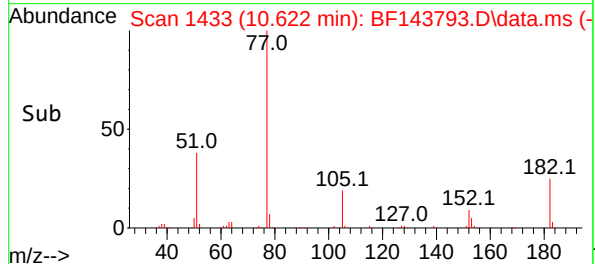
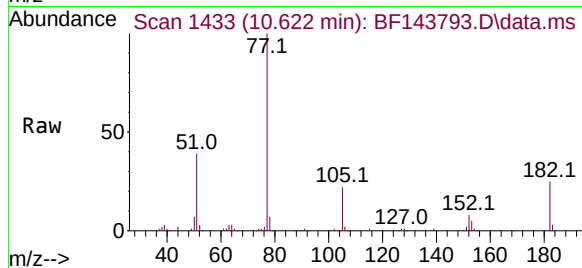




#63  
Azobenzene  
Concen: 10.152 ng  
RT: 10.622 min Scan# 1433  
Delta R.T. -0.006 min  
Lab File: BF143793.D  
Acq: 23 Sep 2025 11:57

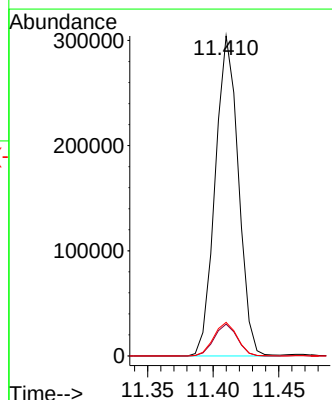
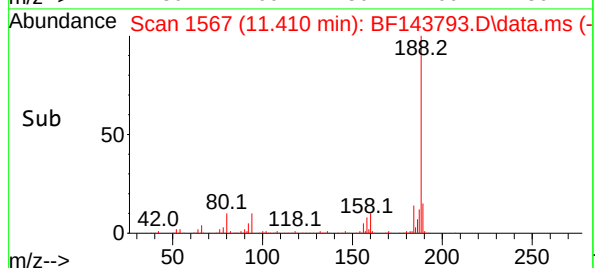
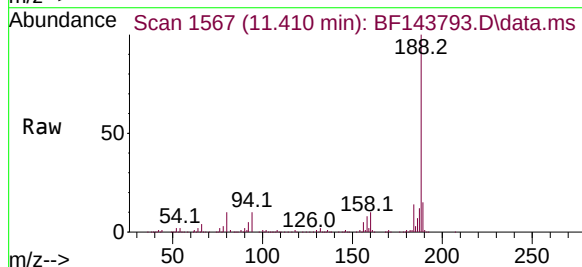
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC010

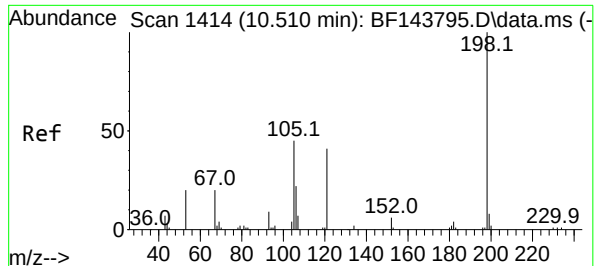
Tgt Ion: 77 Resp: 146130  
Ion Ratio Lower Upper  
77 100  
182 24.9 5.9 45.9  
105 22.2 2.3 42.3  
51 38.6 17.6 57.6



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.410 min Scan# 1567  
Delta R.T. -0.006 min  
Lab File: BF143793.D  
Acq: 23 Sep 2025 11:57

Tgt Ion: 188 Resp: 375125  
Ion Ratio Lower Upper  
188 100  
94 9.9 8.2 12.2  
80 10.5 8.6 12.8

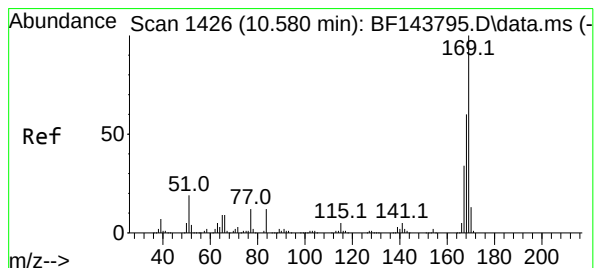
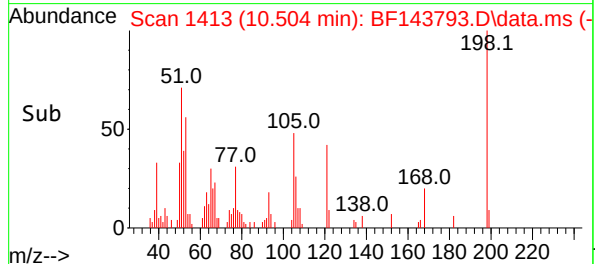
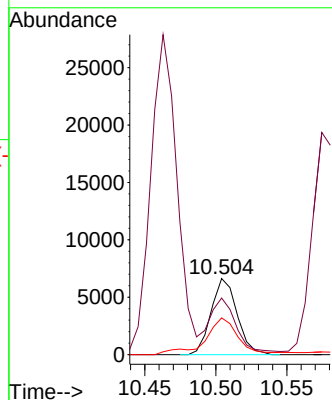
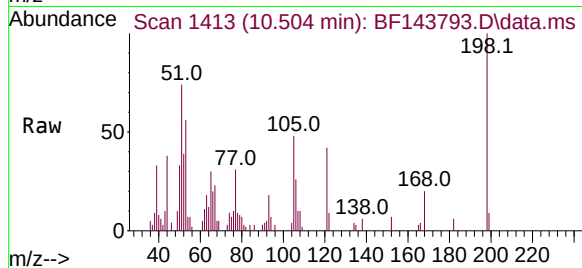




#65  
4,6-Dinitro-2-methylphenol  
Concen: 10.867 ng  
RT: 10.504 min Scan# 1413  
Delta R.T. -0.012 min  
Lab File: BF143793.D  
Acq: 23 Sep 2025 11:57

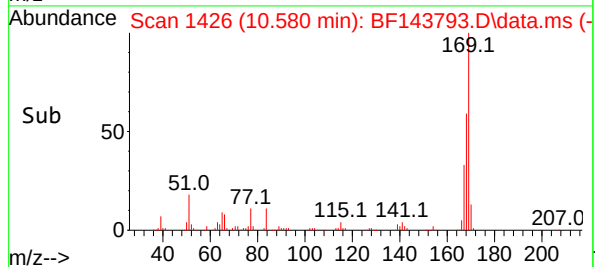
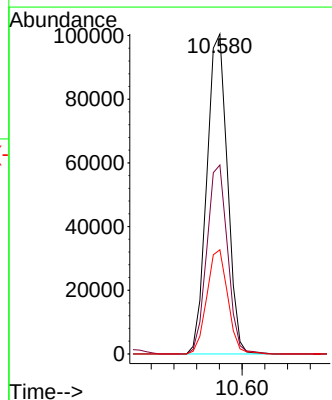
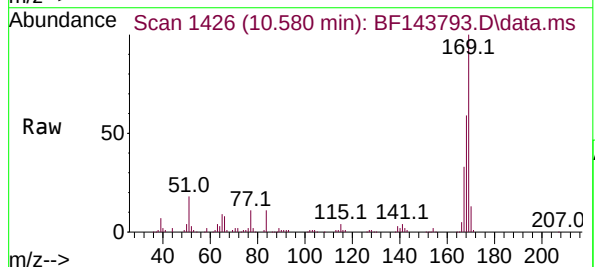
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC010

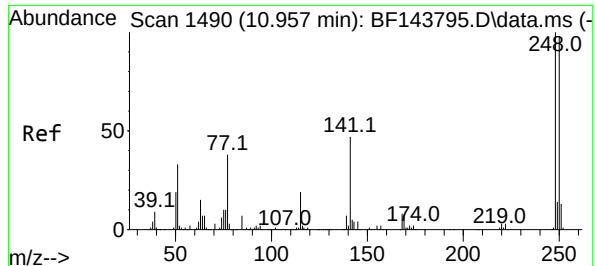
| Tgt Ion   | 198   | Resp  | 8417 |
|-----------|-------|-------|------|
| Ion Ratio | Lower | Upper |      |
| 198       | 100   |       |      |
| 51        | 74.4  | 52.0  | 92.0 |
| 105       | 48.2  | 27.5  | 67.5 |



#66  
n-Nitrosodiphenylamine  
Concen: 10.261 ng  
RT: 10.580 min Scan# 1426  
Delta R.T. -0.006 min  
Lab File: BF143793.D  
Acq: 23 Sep 2025 11:57

| Tgt Ion   | 169   | Resp  | 126584 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 169       | 100   |       |        |
| 168       | 59.0  | 47.9  | 71.9   |
| 167       | 32.5  | 27.0  | 40.6   |

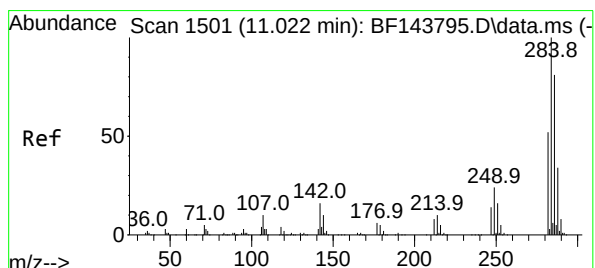
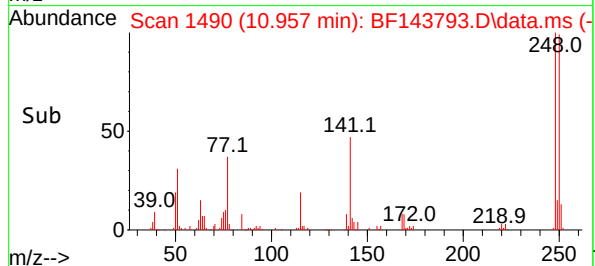
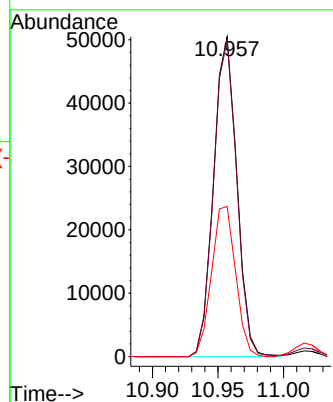
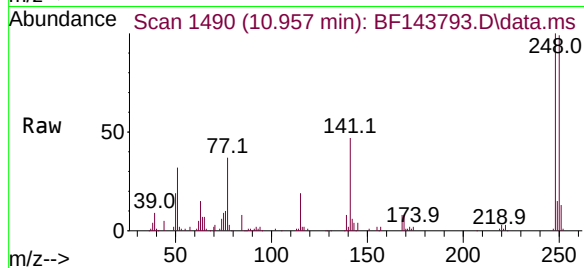




#67  
4-Bromophenyl-phenylether  
Concen: 9.784 ng  
RT: 10.957 min Scan# 1490  
Delta R.T. 0.000 min  
Lab File: BF143793.D  
Acq: 23 Sep 2025 11:57

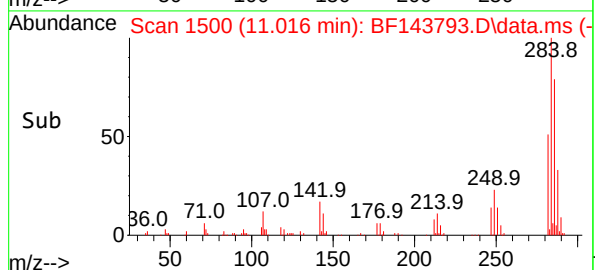
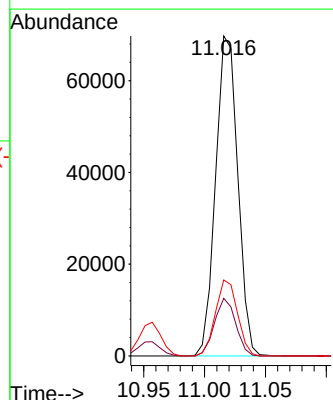
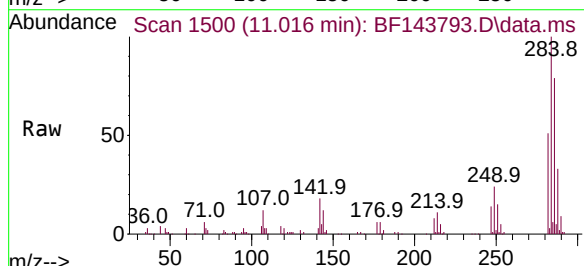
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC010

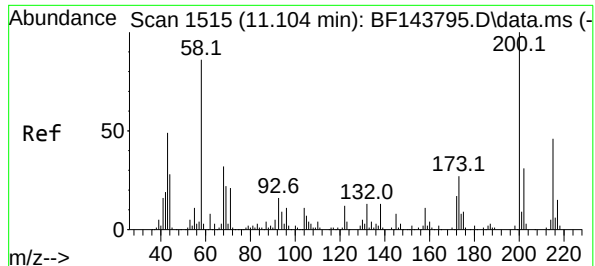
Tgt Ion:248 Resp: 62547  
Ion Ratio Lower Upper  
248 100  
250 98.9 78.7 118.1  
141 46.9 37.9 56.9



#68  
Hexachlorobenzene  
Concen: 10.009 ng  
RT: 11.016 min Scan# 1500  
Delta R.T. -0.006 min  
Lab File: BF143793.D  
Acq: 23 Sep 2025 11:57

Tgt Ion:284 Resp: 88177  
Ion Ratio Lower Upper  
284 100  
142 18.0 13.1 19.7  
249 23.7 19.5 29.3





#69

Atrazine

Concen: 10.010 ng

RT: 11.104 min Scan# 1515

Delta R.T. -0.006 min

Lab File: BF143793.D

Acq: 23 Sep 2025 11:57

Instrument :

BNA\_F

ClientSampleId :

SSTDICC010

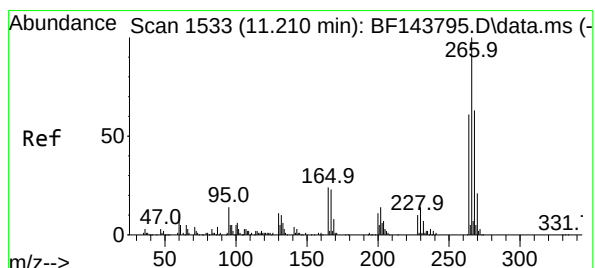
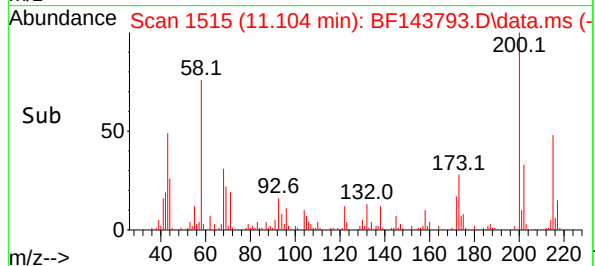
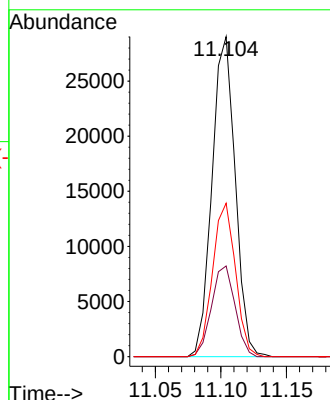
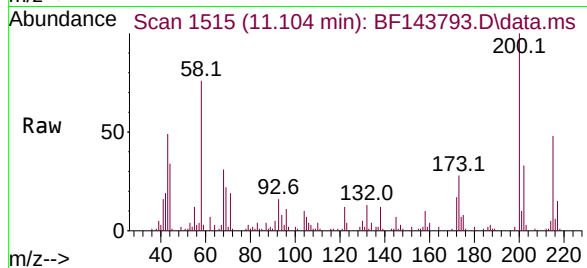
Tgt Ion:200 Resp: 35762

Ion Ratio Lower Upper

200 100

173 28.3 7.2 47.2

215 47.9 26.0 66.0



#70

Pentachlorophenol

Concen: 7.704 ng

RT: 11.210 min Scan# 1533

Delta R.T. -0.006 min

Lab File: BF143793.D

Acq: 23 Sep 2025 11:57

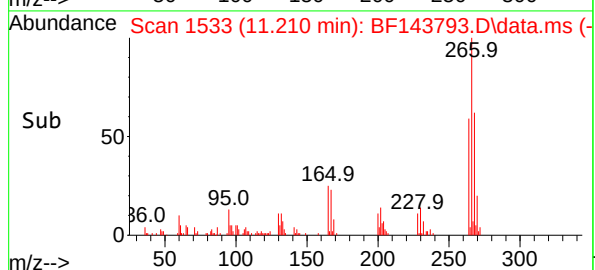
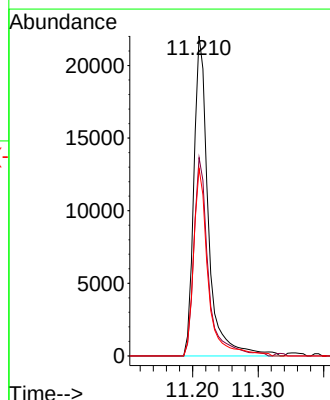
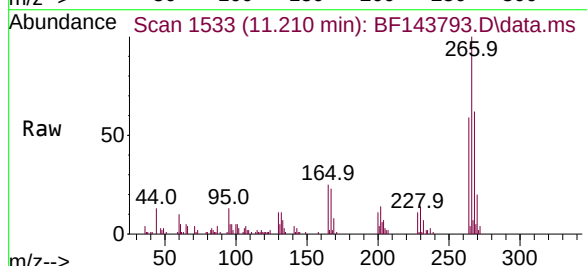
Tgt Ion:266 Resp: 33783

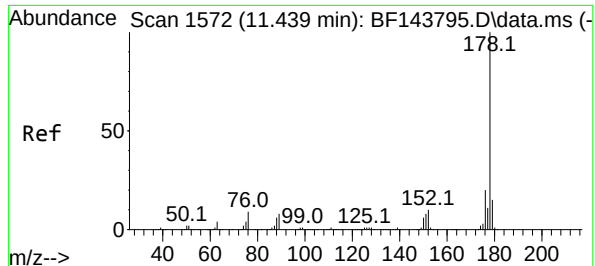
Ion Ratio Lower Upper

266 100

268 62.0 50.5 75.7

264 58.6 48.8 73.2

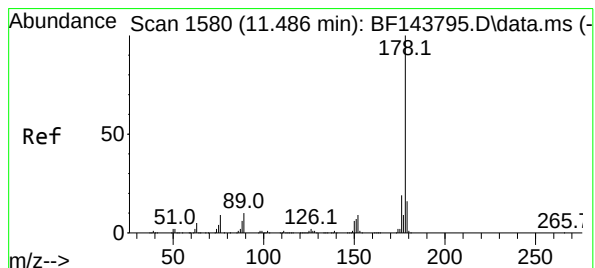
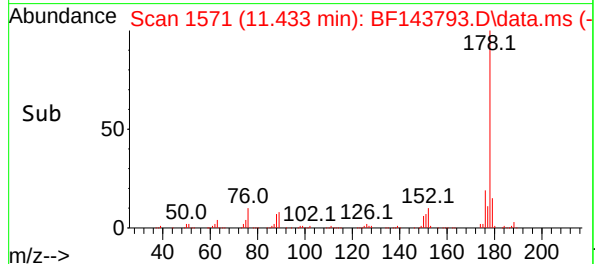
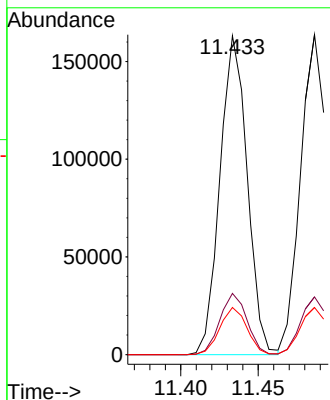
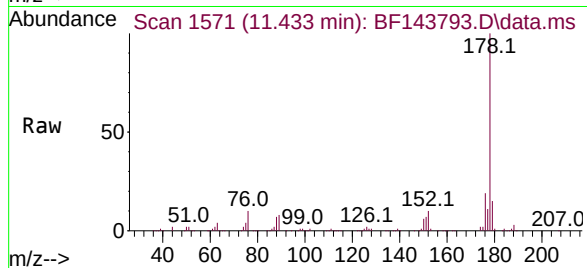




#71  
Phenanthrene  
Concen: 10.386 ng  
RT: 11.433 min Scan# 1571  
Delta R.T. -0.006 min  
Lab File: BF143793.D  
Acq: 23 Sep 2025 11:57

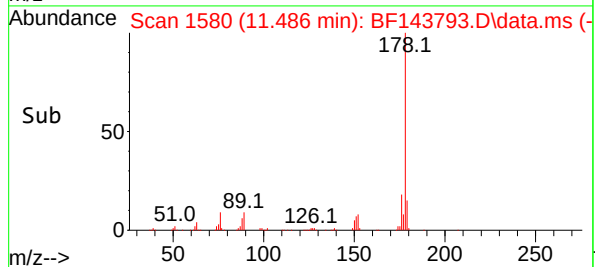
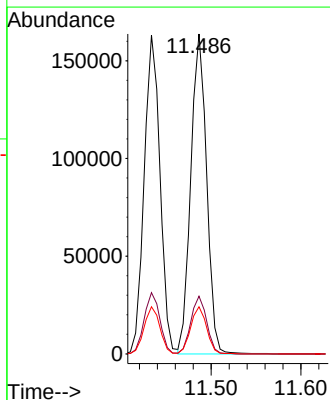
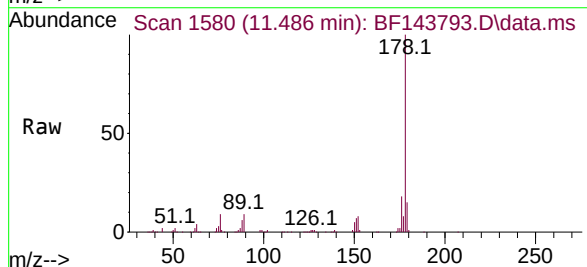
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC010

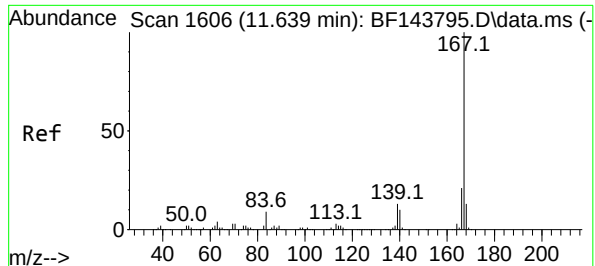
Tgt Ion:178 Resp: 200025  
Ion Ratio Lower Upper  
178 100  
176 19.2 15.6 23.4  
179 14.8 12.2 18.4



#72  
Anthracene  
Concen: 10.379 ng  
RT: 11.486 min Scan# 1580  
Delta R.T. -0.006 min  
Lab File: BF143793.D  
Acq: 23 Sep 2025 11:57

Tgt Ion:178 Resp: 200505  
Ion Ratio Lower Upper  
178 100  
176 18.0 15.3 22.9  
179 14.7 12.8 19.2

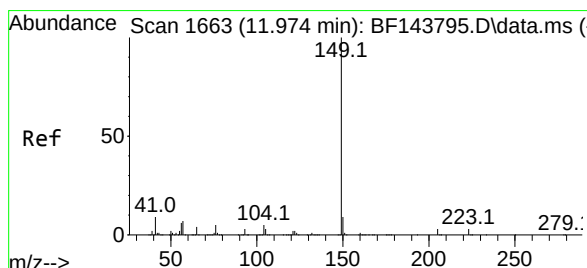
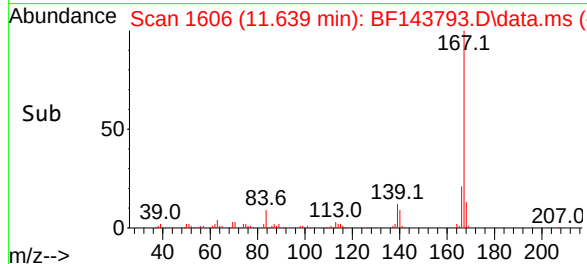
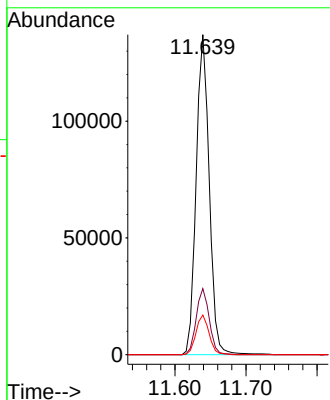
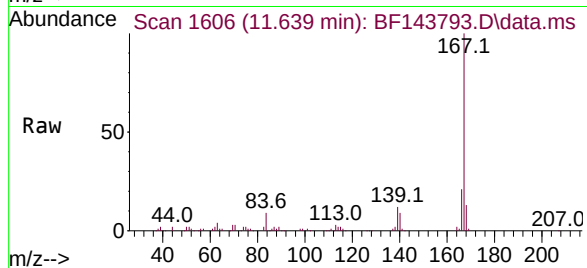




#73  
Carbazole  
Concen: 10.337 ng  
RT: 11.639 min Scan# 1606  
Delta R.T. -0.006 min  
Lab File: BF143793.D  
Acq: 23 Sep 2025 11:57

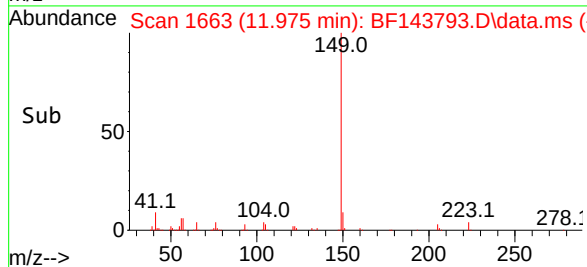
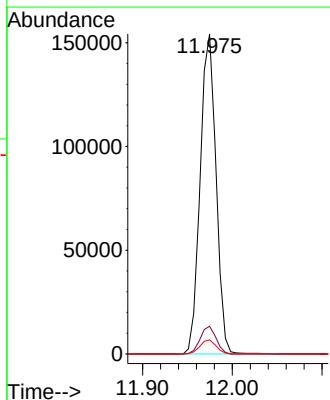
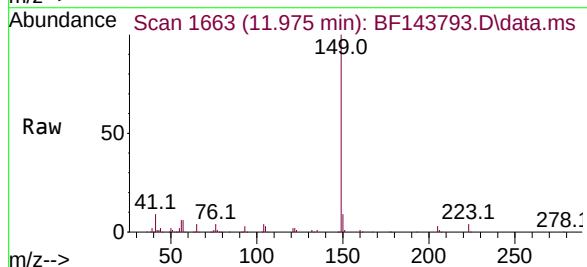
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC010

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 167     | 100   |       |       |
| 166     | 20.6  | 17.0  | 25.4  |
| 139     | 12.4  | 10.6  | 15.8  |

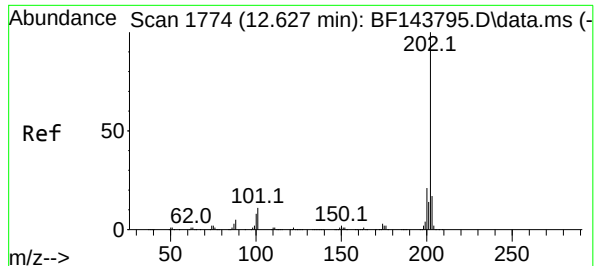


#74  
Di-n-butylphthalate  
Concen: 9.736 ng  
RT: 11.975 min Scan# 1663  
Delta R.T. 0.000 min  
Lab File: BF143793.D  
Acq: 23 Sep 2025 11:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 150     | 8.6   | 7.3   | 10.9  |
| 104     | 4.4   | 3.6   | 5.4   |



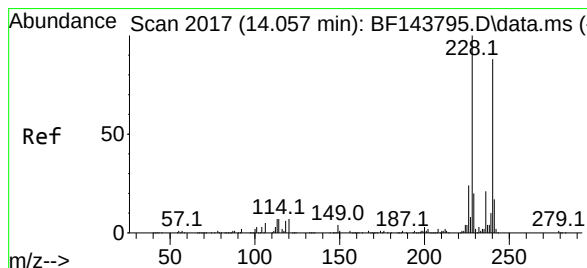
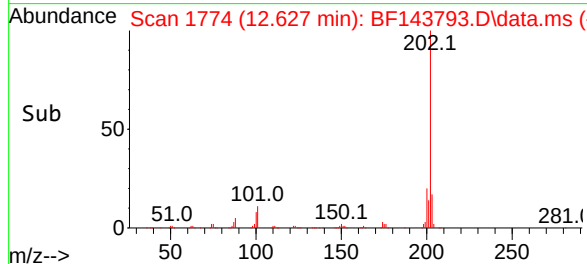
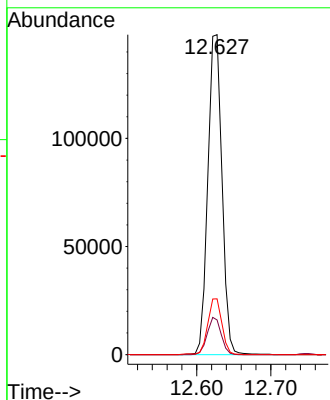
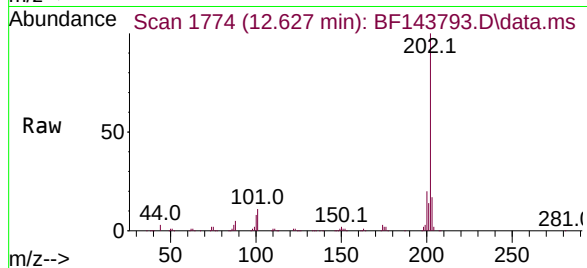




#75  
Fluoranthene  
Concen: 10.129 ng  
RT: 12.627 min Scan# 1774  
Delta R.T. 0.000 min  
Lab File: BF143793.D  
Acq: 23 Sep 2025 11:57

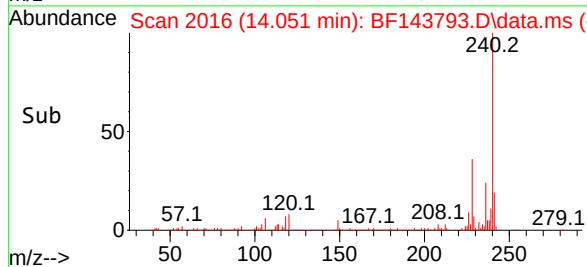
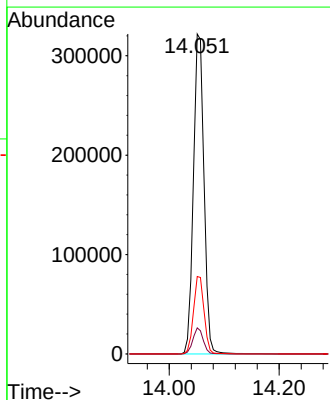
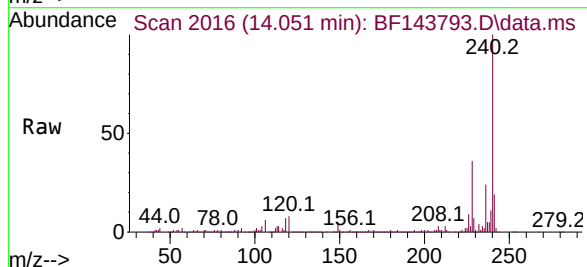
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC010

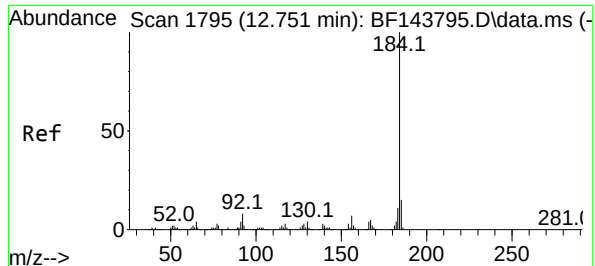
Tgt Ion:202 Resp: 196207  
Ion Ratio Lower Upper  
202 100  
101 10.8 0.0 31.1  
203 17.4 0.0 37.4



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.051 min Scan# 2016  
Delta R.T. -0.012 min  
Lab File: BF143793.D  
Acq: 23 Sep 2025 11:57

Tgt Ion:240 Resp: 430577  
Ion Ratio Lower Upper  
240 100  
120 8.1 6.2 9.4  
236 24.2 19.4 29.2

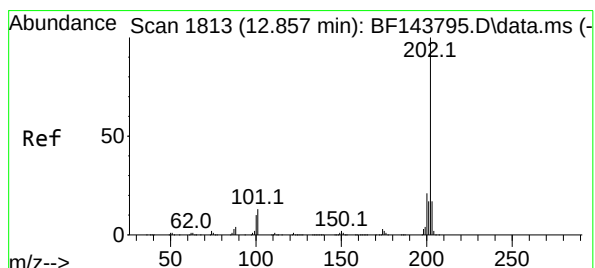
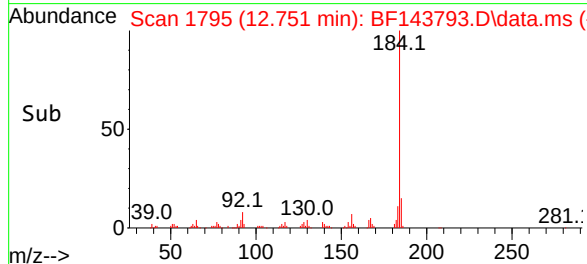
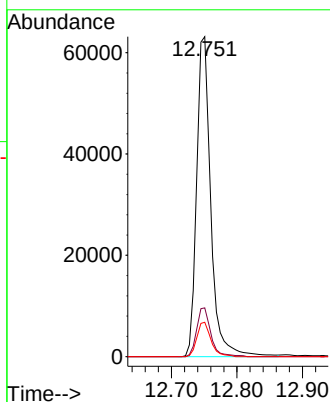
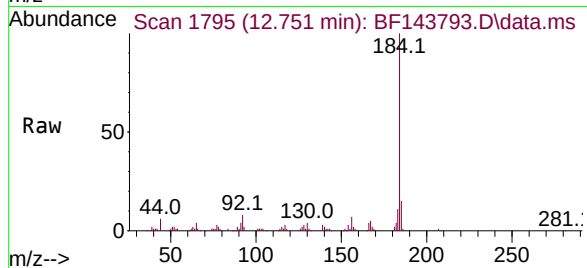




#77  
Benzidine  
Concen: 8.997 ng  
RT: 12.751 min Scan# 1795  
Delta R.T. 0.000 min  
Lab File: BF143793.D  
Acq: 23 Sep 2025 11:57

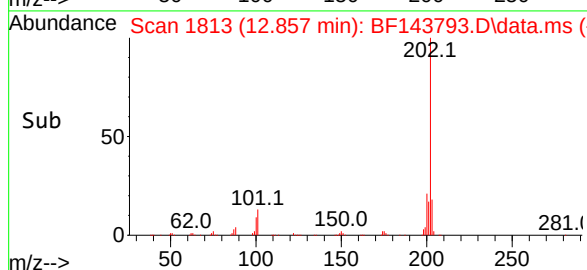
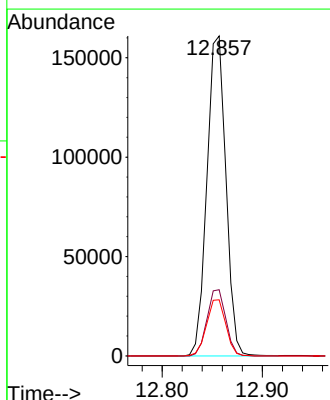
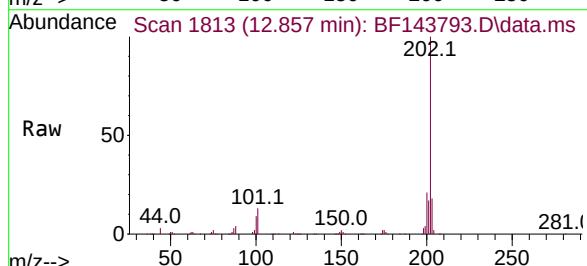
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC010

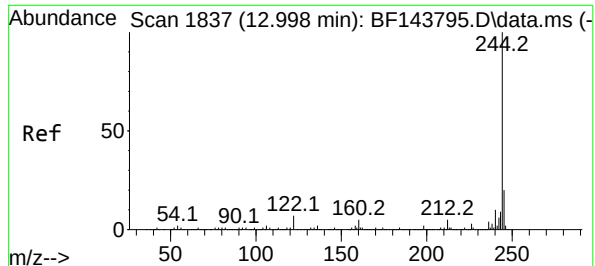
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 184     | 100   |       |       |
| 185     | 15.2  | 11.6  | 17.4  |
| 183     | 10.7  | 8.6   | 13.0  |



#78  
Pyrene  
Concen: 9.983 ng  
RT: 12.857 min Scan# 1813  
Delta R.T. 0.000 min  
Lab File: BF143793.D  
Acq: 23 Sep 2025 11:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 20.7  | 17.0  | 25.4  |
| 203     | 17.5  | 13.9  | 20.9  |

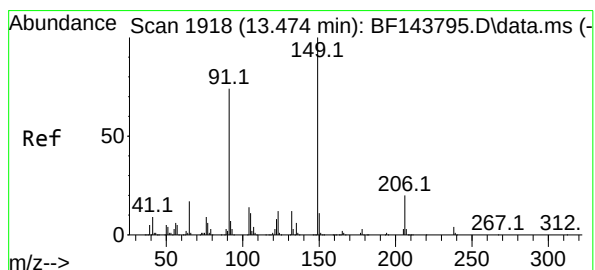
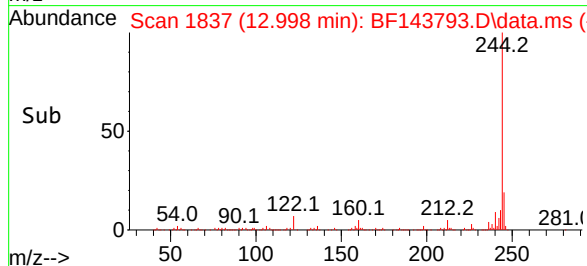
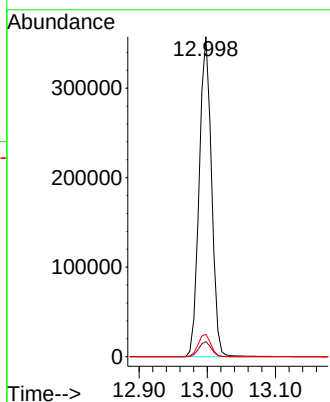
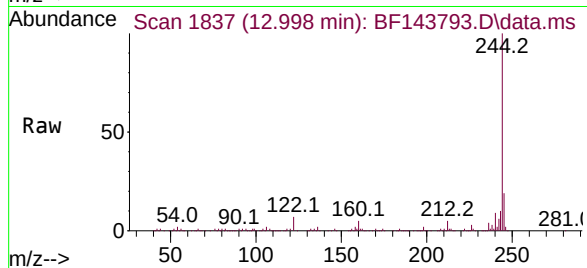




#79  
Terphenyl-d14  
Concen: 20.493 ng  
RT: 12.998 min Scan# 1837  
Delta R.T. -0.006 min  
Lab File: BF143793.D  
Acq: 23 Sep 2025 11:57

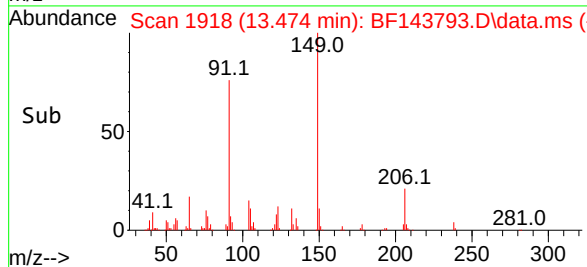
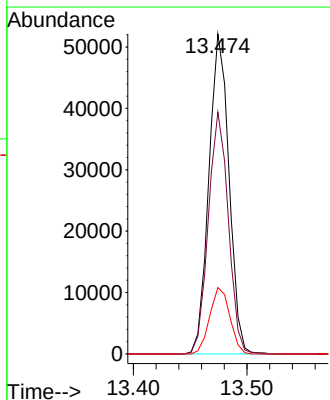
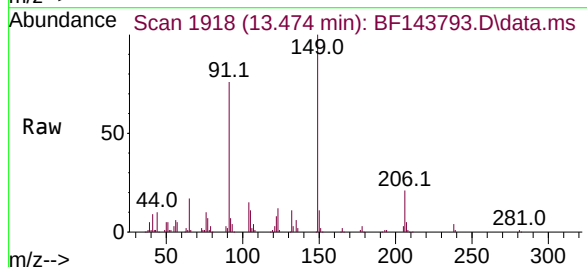
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC010

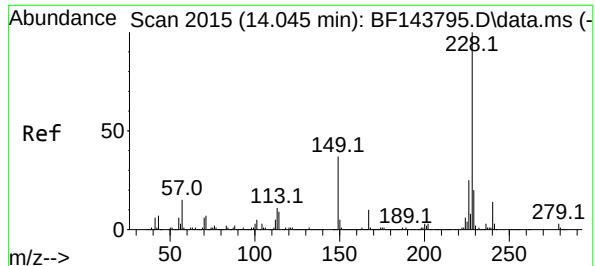
Tgt Ion:244 Resp: 449442  
Ion Ratio Lower Upper  
244 100  
212 4.7 3.9 5.9  
122 7.0 5.6 8.4



#80  
Butylbenzylphthalate  
Concen: 8.751 ng  
RT: 13.474 min Scan# 1918  
Delta R.T. -0.006 min  
Lab File: BF143793.D  
Acq: 23 Sep 2025 11:57

Tgt Ion:149 Resp: 64090  
Ion Ratio Lower Upper  
149 100  
91 75.5 59.5 89.3  
206 20.8 16.1 24.1

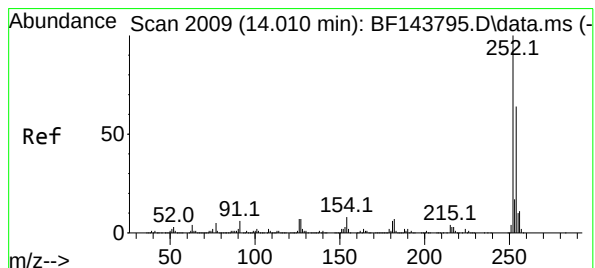
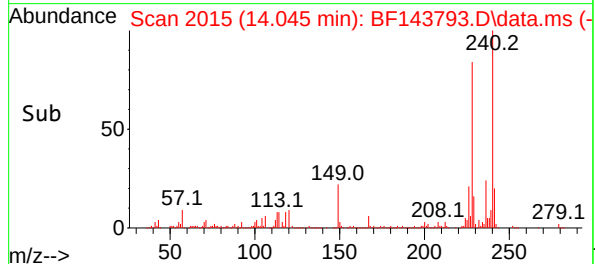
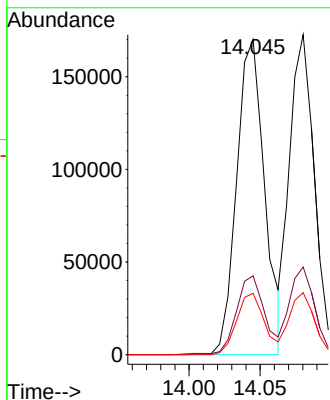
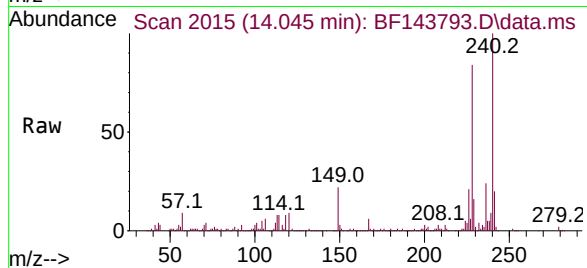




#81  
Benzo(a)anthracene  
Concen: 10.061 ng  
RT: 14.045 min Scan# 2015  
Delta R.T. -0.006 min  
Lab File: BF143793.D  
Acq: 23 Sep 2025 11:57

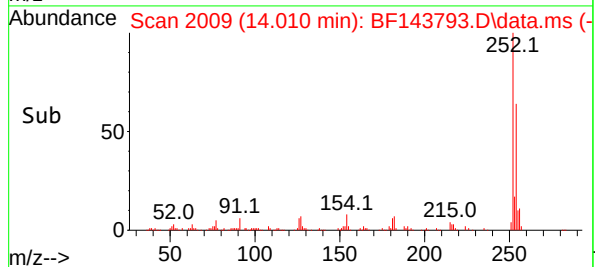
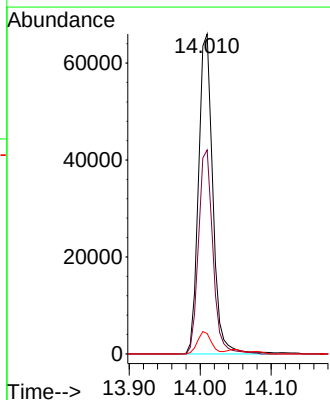
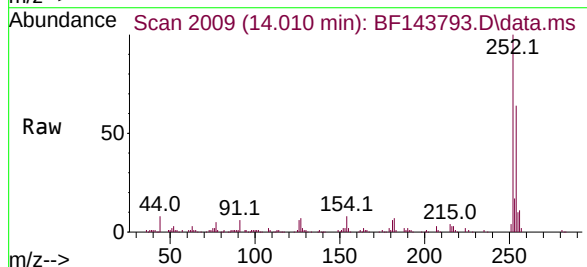
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC010

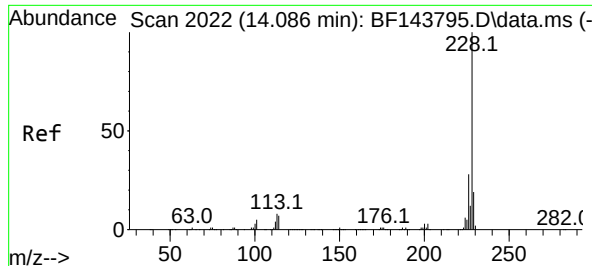
Tgt Ion:228 Resp: 232722  
Ion Ratio Lower Upper  
228 100  
226 25.0 20.2 30.2  
229 19.5 16.1 24.1



#82  
3,3'-Dichlorobenzidine  
Concen: 9.160 ng  
RT: 14.010 min Scan# 2009  
Delta R.T. 0.000 min  
Lab File: BF143793.D  
Acq: 23 Sep 2025 11:57

Tgt Ion:252 Resp: 91789  
Ion Ratio Lower Upper  
252 100  
254 63.8 51.5 77.3  
126 6.4 5.4 8.2





#83

Chrysene

Concen: 10.133 ng

RT: 14.080 min Scan# 2013

Delta R.T. -0.006 min

Lab File: BF143793.D

Acq: 23 Sep 2025 11:57

Instrument :

BNA\_F

ClientSampleId :

SSTDICC010

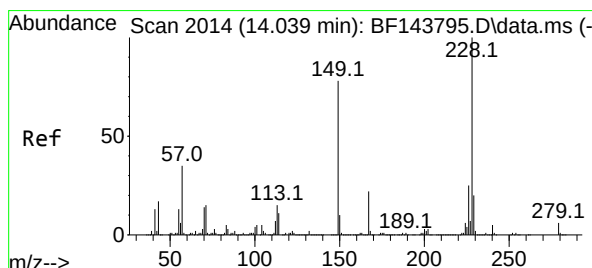
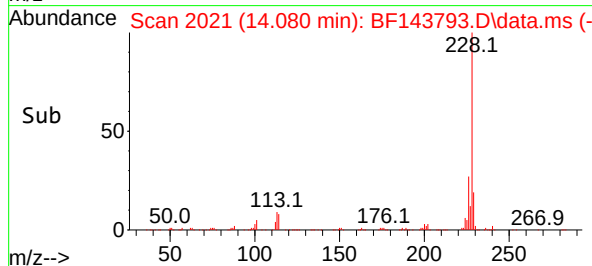
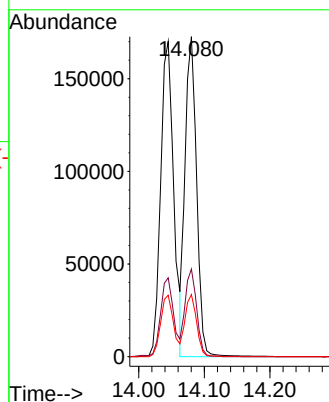
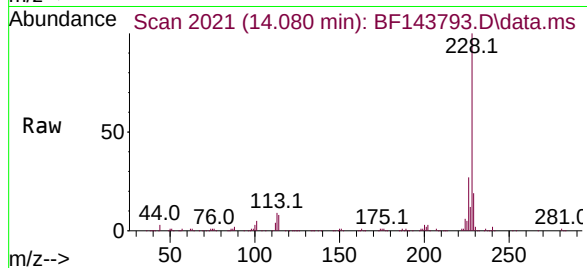
Tgt Ion:228 Resp: 212098

Ion Ratio Lower Upper

228 100

226 27.4 22.6 33.8

229 19.4 15.6 23.4



#84

Bis(2-ethylhexyl)phthalate

Concen: 9.557 ng

RT: 14.033 min Scan# 2013

Delta R.T. -0.006 min

Lab File: BF143793.D

Acq: 23 Sep 2025 11:57

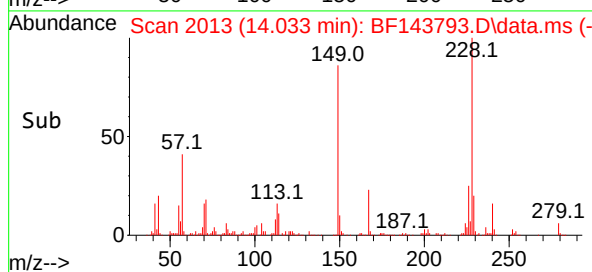
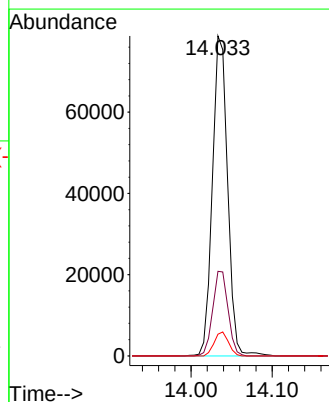
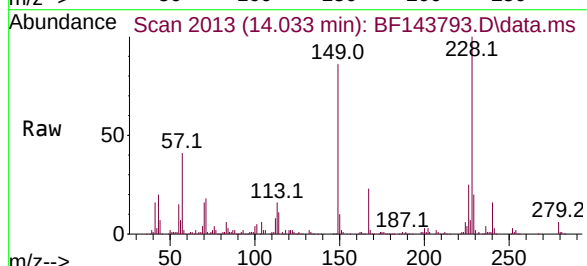
Tgt Ion:149 Resp: 102600

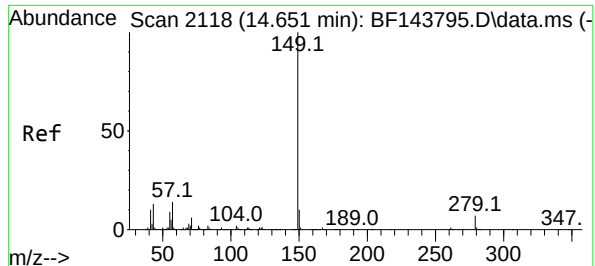
Ion Ratio Lower Upper

149 100

167 26.4 22.2 33.2

279 6.8 6.0 9.0

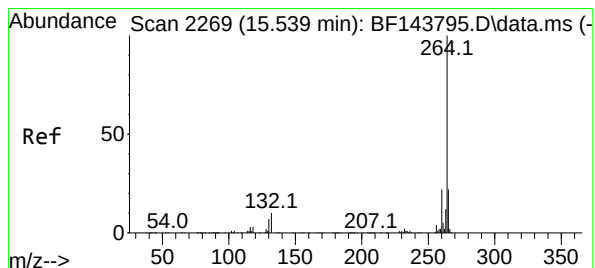
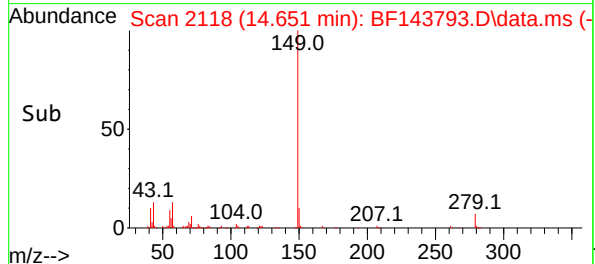
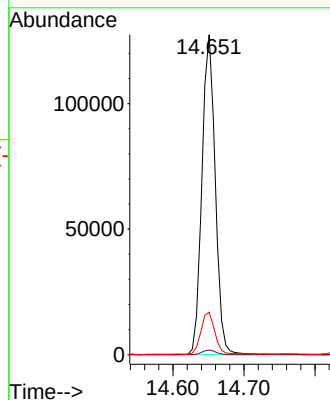
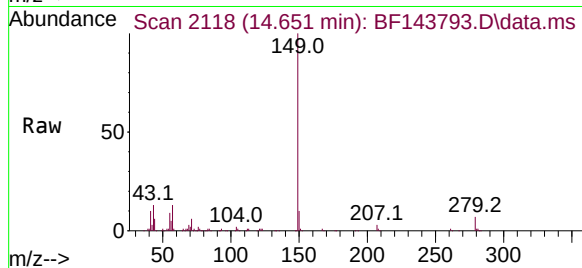




#85  
Di-n-octyl phthalate  
Concen: 8.482 ng  
RT: 14.651 min Scan# 2118  
Delta R.T. -0.006 min  
Lab File: BF143793.D  
Acq: 23 Sep 2025 11:57

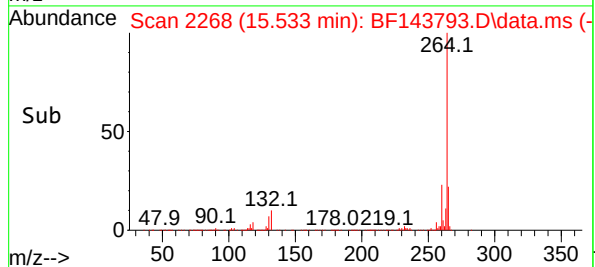
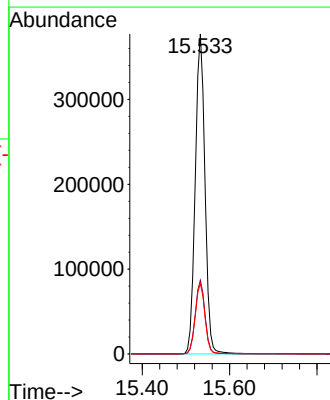
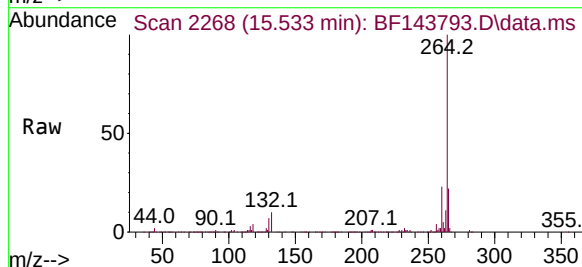
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC010

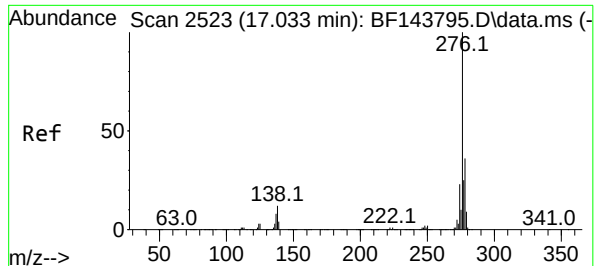
Tgt Ion:149 Resp: 165178  
Ion Ratio Lower Upper  
149 100  
167 1.4 1.1 1.7  
43 13.7 10.7 16.1



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.533 min Scan# 2268  
Delta R.T. -0.006 min  
Lab File: BF143793.D  
Acq: 23 Sep 2025 11:57

Tgt Ion:264 Resp: 582350  
Ion Ratio Lower Upper  
264 100  
260 23.0 17.9 26.9  
265 22.1 17.7 26.5

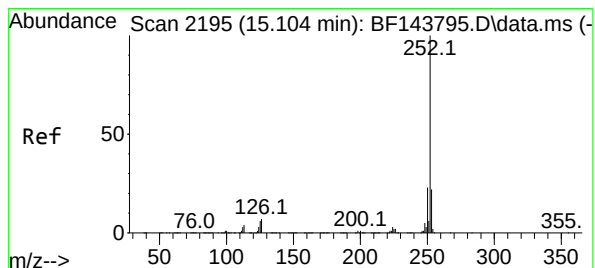
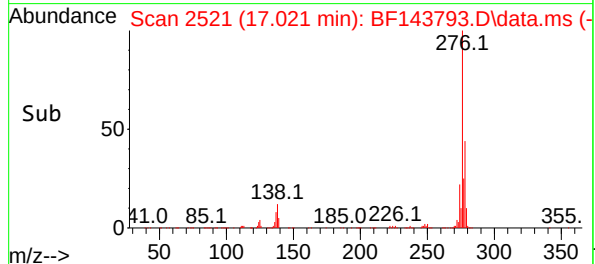
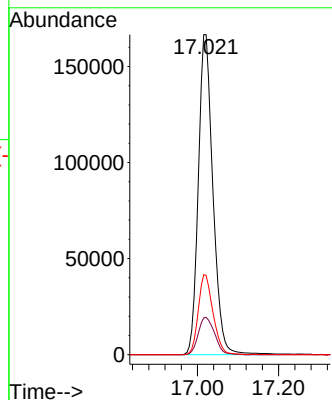
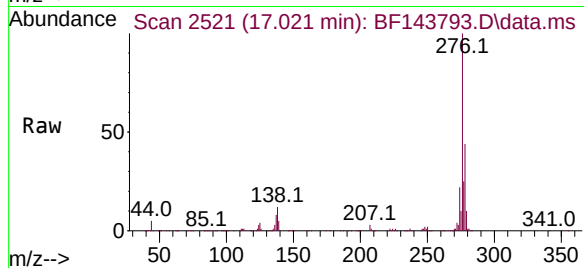




#87  
Indeno(1,2,3-cd)pyrene  
Concen: 9.400 ng  
RT: 17.021 min Scan# 2194  
Delta R.T. -0.023 min  
Lab File: BF143793.D  
Acq: 23 Sep 2025 11:57

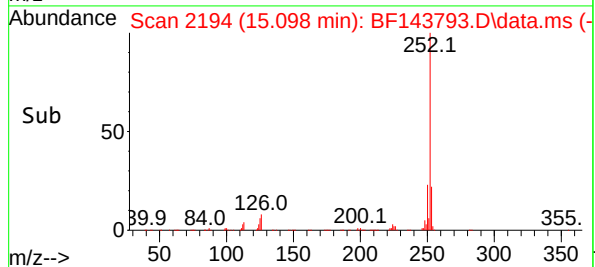
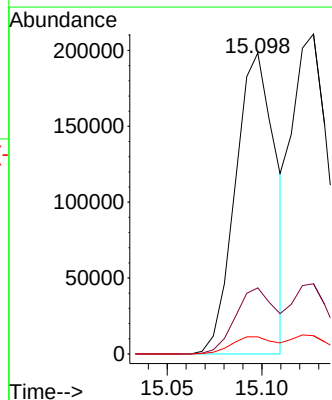
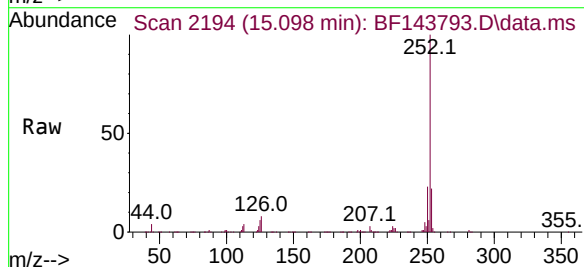
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC010

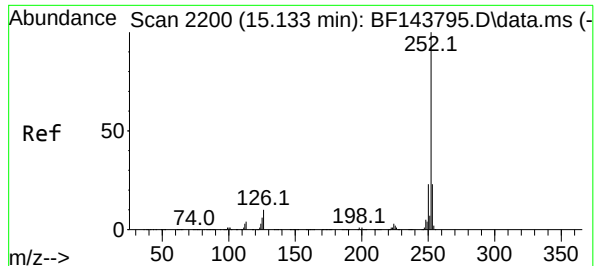
Tgt Ion:276 Resp: 415337  
Ion Ratio Lower Upper  
276 100  
138 13.0 10.6 15.8  
277 25.1 20.7 31.1



#88  
Benzo(b)fluoranthene  
Concen: 9.857 ng  
RT: 15.098 min Scan# 2194  
Delta R.T. -0.006 min  
Lab File: BF143793.D  
Acq: 23 Sep 2025 11:57

Tgt Ion:252 Resp: 292308  
Ion Ratio Lower Upper  
252 100  
253 21.9 17.8 26.8  
125 5.7 4.4 6.6





#89

Benzo(k)fluoranthene

Concen: 9.808 ng

RT: 15.127 min Scan# 21

Delta R.T. -0.012 min

Lab File: BF143793.D

Acq: 23 Sep 2025 11:57

Instrument :

BNA\_F

ClientSampleId :

SSTDICC010

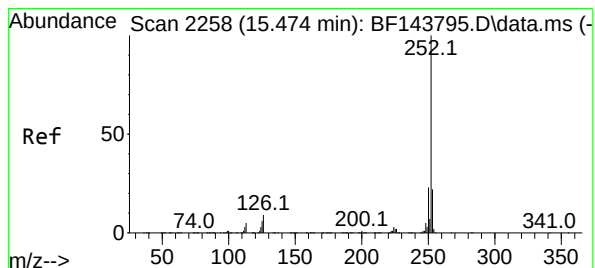
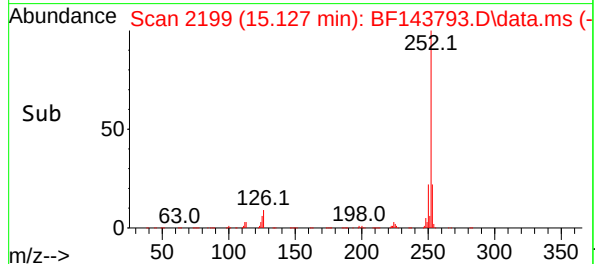
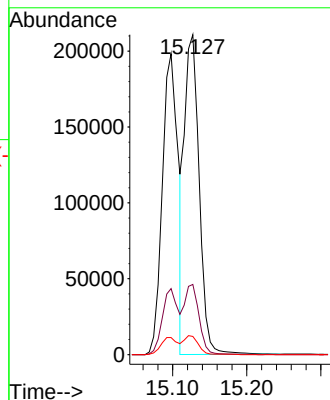
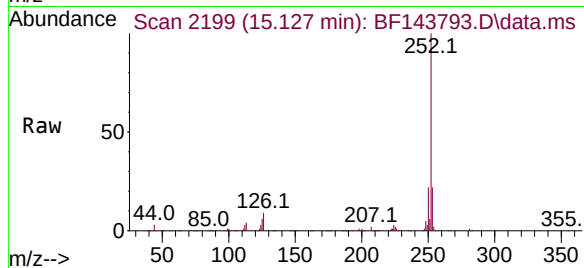
Tgt Ion:252 Resp: 292238

Ion Ratio Lower Upper

252 100

253 21.9 17.9 26.9

125 5.7 4.6 6.8



#90

Benzo(a)pyrene

Concen: 9.606 ng

RT: 15.468 min Scan# 2257

Delta R.T. -0.012 min

Lab File: BF143793.D

Acq: 23 Sep 2025 11:57

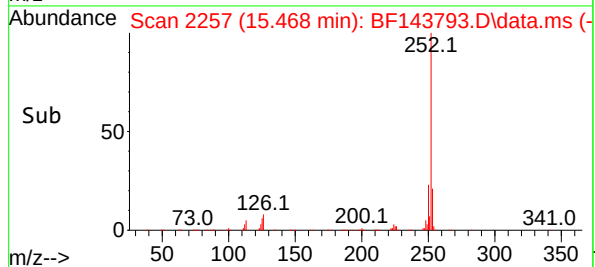
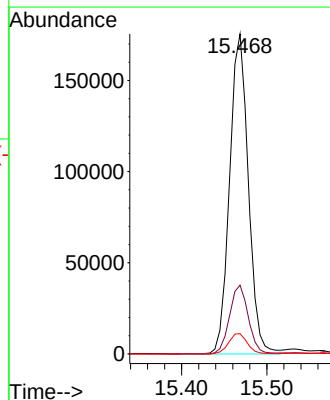
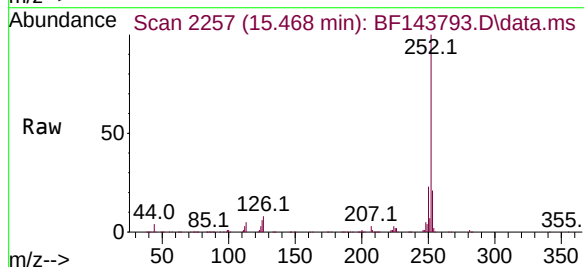
Tgt Ion:252 Resp: 267775

Ion Ratio Lower Upper

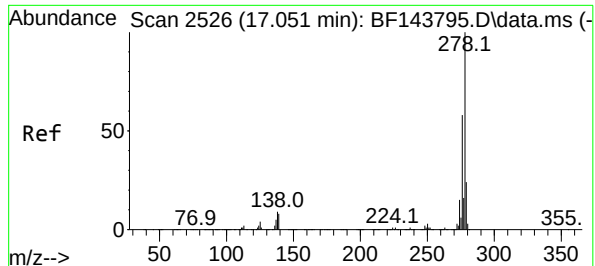
252 100

253 21.5 17.6 26.4

125 6.3 5.0 7.4



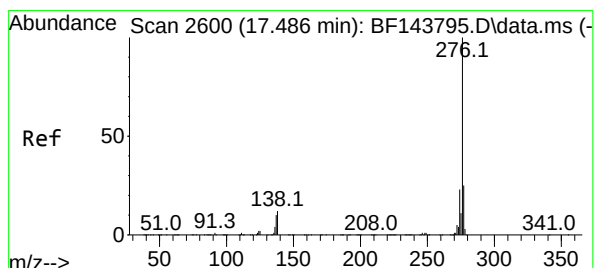
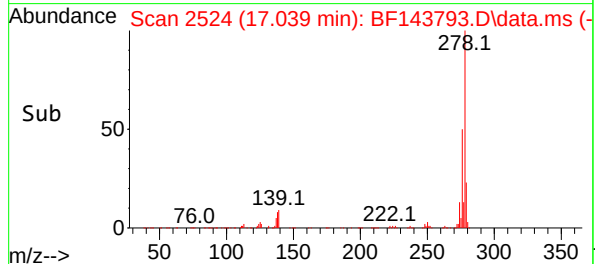
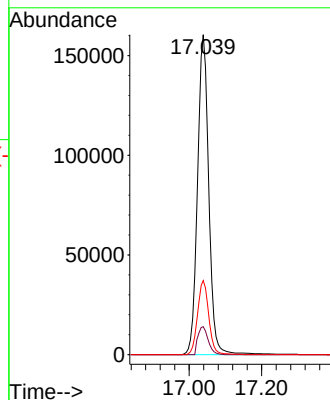
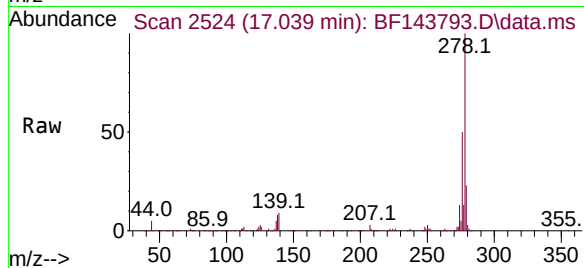




#91  
Dibenzo(a,h)anthracene  
Concen: 9.564 ng  
RT: 17.039 min Scan# 2524  
Delta R.T. -0.029 min  
Lab File: BF143793.D  
Acq: 23 Sep 2025 11:57

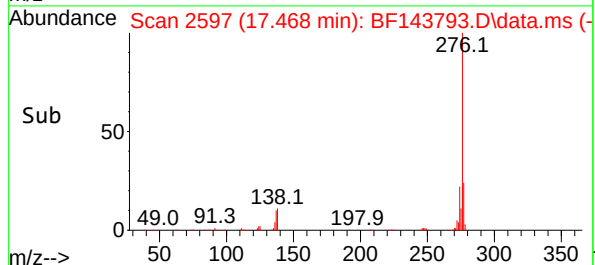
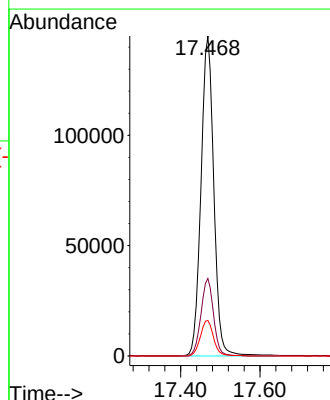
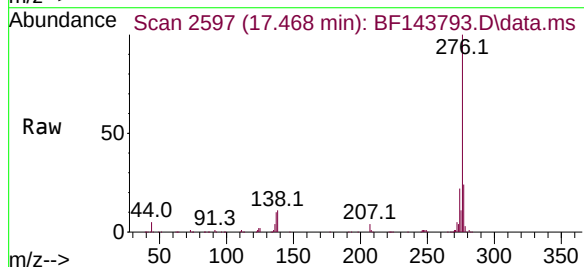
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC010

Tgt Ion:278 Resp: 345636  
Ion Ratio Lower Upper  
278 100  
139 8.7 6.7 10.1  
279 23.2 19.3 28.9



#92  
Benzo(g,h,i)perylene  
Concen: 9.329 ng  
RT: 17.468 min Scan# 2597  
Delta R.T. -0.035 min  
Lab File: BF143793.D  
Acq: 23 Sep 2025 11:57

Tgt Ion:276 Resp: 324982  
Ion Ratio Lower Upper  
276 100  
277 24.2 19.6 29.4  
138 11.1 9.2 13.8



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF092325\  
 Data File : BF143794.D  
 Acq On : 23 Sep 2025 12:27  
 Operator : RC/JU  
 Sample : SSTDICC020  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

## Instrument :

BNA\_F

## ClientSampleId :

SSTDICC020

## Manual Integrations

## APPROVED

Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025

Quant Time: Sep 23 17:06:28 2025

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF092325.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Tue Sep 23 16:31:21 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.887  | 152  | 123560   | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8            | 8.169  | 136  | 446120   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10          | 9.922  | 164  | 213356   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10          | 11.410 | 188  | 331910   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12              | 14.057 | 240  | 394143   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12              | 15.533 | 264  | 545751   | 20.000 | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.487  | 112  | 327687   | 42.681 | ng    | -0.01    |
| 7) Phenol-d6                  | 6.498  | 99   | 377986   | 41.720 | ng    | -0.01    |
| 23) Nitrobenzene-d5           | 7.445  | 82   | 302138   | 42.621 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 10.710 | 330  | 138317   | 45.426 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 9.239  | 172  | 622849   | 43.140 | ng    | 0.00     |
| 79) Terphenyl-d14             | 12.998 | 244  | 798420   | 39.771 | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| Target Compounds              |        |      |          |        |       | Qvalue   |
| 2) 1,4-Dioxane                | 2.628  | 88   | 73941    | 20.313 | ng    | 99       |
| 3) Pyridine                   | 3.399  | 79   | 200605   | 20.416 | ng    | 98       |
| 4) n-Nitrosodimethylamine     | 3.328  | 42   | 100296   | 20.357 | ng    | 98       |
| 6) Aniline                    | 6.545  | 93   | 266602   | 20.904 | ng    | 99       |
| 8) 2-Chlorophenol             | 6.663  | 128  | 164198   | 21.090 | ng    | 98       |
| 9) Benzaldehyde               | 6.434  | 77   | 117654   | 15.290 | ng    | 99       |
| 10) Phenol                    | 6.510  | 94   | 214576m  | 21.008 | ng    |          |
| 11) bis(2-Chloroethyl)ether   | 6.616  | 93   | 166393   | 20.783 | ng    | 99       |
| 12) 1,3-Dichlorobenzene       | 6.828  | 146  | 192258   | 21.268 | ng    | 99       |
| 13) 1,4-Dichlorobenzene       | 6.904  | 146  | 191454   | 21.223 | ng    | 100      |
| 14) 1,2-Dichlorobenzene       | 7.057  | 146  | 181008   | 21.185 | ng    | 99       |
| 15) Benzyl Alcohol            | 7.016  | 79   | 132713   | 20.902 | ng    | 99       |
| 16) 2,2'-oxybis(1-Chloropr... | 7.157  | 45   | 398403   | 20.985 | ng    | 100      |
| 17) 2-Methylphenol            | 7.128  | 107  | 124617   | 20.674 | ng    | 99       |
| 18) Hexachloroethane          | 7.398  | 117  | 67048    | 21.134 | ng    | 98       |
| 19) n-Nitroso-di-n-propyla... | 7.287  | 70   | 114449   | 20.254 | ng    | 100      |
| 20) 3+4-Methylphenols         | 7.281  | 107  | 155211   | 21.145 | ng    | # 86     |
| 22) Acetophenone              | 7.293  | 105  | 208896   | 21.319 | ng    | 97       |
| 24) Nitrobenzene              | 7.463  | 77   | 164815   | 20.402 | ng    | 97       |
| 25) Isophorone                | 7.698  | 82   | 289674   | 20.396 | ng    | 99       |
| 26) 2-Nitrophenol             | 7.781  | 139  | 55948    | 18.629 | ng    | 97       |
| 27) 2,4-Dimethylphenol        | 7.810  | 122  | 129731   | 20.437 | ng    | 99       |
| 28) bis(2-Chloroethoxy)met... | 7.910  | 93   | 191947   | 20.802 | ng    | 100      |
| 29) 2,4-Dichlorophenol        | 8.016  | 162  | 128651   | 20.597 | ng    | 98       |
| 30) 1,2,4-Trichlorobenzene    | 8.110  | 180  | 135810   | 20.952 | ng    | 99       |
| 31) Naphthalene               | 8.187  | 128  | 455060   | 21.308 | ng    | 100      |
| 32) Benzoic acid              | 7.875  | 122  | 40592    | 13.254 | ng    | 97       |
| 33) 4-Chloroaniline           | 8.234  | 127  | 157439   | 20.978 | ng    | 99       |
| 34) Hexachlorobutadiene       | 8.310  | 225  | 99520    | 20.595 | ng    | 99       |
| 35) Caprolactam               | 8.575  | 113  | 30948    | 19.385 | ng    | 95       |
| 36) 4-Chloro-3-methylphenol   | 8.704  | 107  | 121067   | 20.667 | ng    | 97       |
| 37) 2-Methylnaphthalene       | 8.881  | 142  | 286790   | 21.060 | ng    | 98       |
| 38) 1-Methylnaphthalene       | 8.981  | 142  | 272276   | 20.889 | ng    | 99       |
| 40) 1,2,4,5-Tetrachloroben... | 9.045  | 216  | 135689   | 21.074 | ng    | 99       |
| 41) Hexachlorocyclopentadiene | 9.034  | 237  | 79092    | 19.382 | ng    | 99       |
| 43) 2,4,6-Trichlorophenol     | 9.151  | 196  | 82341    | 20.423 | ng    | 98       |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF092325\  
 Data File : BF143794.D  
 Acq On : 23 Sep 2025 12:27  
 Operator : RC/JU  
 Sample : SSTDICC020  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SSTDICC020

Manual Integrations  
 APPROVED

Reviewed By :Rahul Chavli 09/24/2025  
 Supervised By :Jagrut Upadhyay 09/24/2025

Quant Time: Sep 23 17:06:28 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF092325.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Sep 23 16:31:21 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 44) 2,4,5-Trichlorophenol     | 9.187  | 196  | 89458    | 21.213 | ng    | 97       |
| 46) 1,1'-Biphenyl             | 9.345  | 154  | 333743   | 21.610 | ng    | 98       |
| 47) 2-Chloronaphthalene       | 9.369  | 162  | 265169   | 21.330 | ng    | 99       |
| 48) 2-Nitroaniline            | 9.457  | 65   | 75737    | 20.157 | ng    | 95       |
| 49) Acenaphthylene            | 9.781  | 152  | 362739   | 21.195 | ng    | 99       |
| 50) Dimethylphthalate         | 9.634  | 163  | 267211   | 20.548 | ng    | 99       |
| 51) 2,6-Dinitrotoluene        | 9.698  | 165  | 42291    | 19.794 | ng    | 93       |
| 52) Acenaphthene              | 9.957  | 154  | 239533   | 21.268 | ng    | 99       |
| 53) 3-Nitroaniline            | 9.869  | 138  | 52183    | 20.150 | ng    | 96       |
| 54) 2,4-Dinitrophenol         | 9.969  | 184  | 8519     | 16.759 | ng    | # 1      |
| 55) Dibenzofuran              | 10.128 | 168  | 339308   | 21.305 | ng    | 99       |
| 56) 4-Nitrophenol             | 10.016 | 139  | 36150    | 17.322 | ng    | 98       |
| 57) 2,4-Dinitrotoluene        | 10.098 | 165  | 54137    | 18.952 | ng    | 93       |
| 58) Fluorene                  | 10.469 | 166  | 253897   | 21.445 | ng    | 99       |
| 59) 2,3,4,6-Tetrachlorophenol | 10.245 | 232  | 74485    | 20.618 | ng    | # 98     |
| 60) Diethylphthalate          | 10.339 | 149  | 250459   | 20.575 | ng    | 99       |
| 61) 4-Chlorophenyl-phenyle... | 10.463 | 204  | 128143   | 21.242 | ng    | 99       |
| 62) 4-Nitroaniline            | 10.475 | 138  | 48558    | 19.941 | ng    | 98       |
| 63) Azobenzene                | 10.622 | 77   | 265823   | 20.720 | ng    | 98       |
| 65) 4,6-Dinitro-2-methylph... | 10.504 | 198  | 15499    | 17.632 | ng    | 94       |
| 66) n-Nitrosodiphenylamine    | 10.581 | 169  | 228456   | 20.930 | ng    | 99       |
| 67) 4-Bromophenyl-phenylether | 10.957 | 248  | 115749   | 20.464 | ng    | 99       |
| 68) Hexachlorobenzene         | 11.022 | 284  | 162113   | 20.797 | ng    | 98       |
| 69) Atrazine                  | 11.104 | 200  | 65580    | 20.747 | ng    | 98       |
| 70) Pentachlorophenol         | 11.210 | 266  | 71585    | 18.449 | ng    | 99       |
| 71) Phenanthrene              | 11.433 | 178  | 355364   | 20.854 | ng    | 100      |
| 72) Anthracene                | 11.486 | 178  | 361245   | 21.135 | ng    | 99       |
| 73) Carbazole                 | 11.639 | 167  | 314908   | 21.072 | ng    | 99       |
| 74) Di-n-butylphthalate       | 11.975 | 149  | 356883   | 20.764 | ng    | 99       |
| 75) Fluoranthene              | 12.627 | 202  | 364772   | 21.284 | ng    | 99       |
| 77) Benzidine                 | 12.745 | 184  | 174994   | 18.220 | ng    | 100      |
| 78) Pyrene                    | 12.857 | 202  | 390517   | 20.153 | ng    | 99       |
| 80) Butylbenzylphthalate      | 13.474 | 149  | 131846   | 19.666 | ng    | 99       |
| 81) Benzo(a)anthracene        | 14.045 | 228  | 426715   | 20.153 | ng    | 99       |
| 82) 3,3'-Dichlorobenzidine    | 14.010 | 252  | 183227   | 19.974 | ng    | 100      |
| 83) Chrysene                  | 14.080 | 228  | 392431   | 20.482 | ng    | 99       |
| 84) Bis(2-ethylhexyl)phtha... | 14.033 | 149  | 202632   | 20.620 | ng    | 99       |
| 85) Di-n-octyl phthalate      | 14.651 | 149  | 345757   | 19.397 | ng    | 100      |
| 87) Indeno(1,2,3-cd)pyrene    | 17.021 | 276  | 862284   | 20.824 | ng    | 100      |
| 88) Benzo(b)fluoranthene      | 15.098 | 252  | 561825   | 20.215 | ng    | 99       |
| 89) Benzo(k)fluoranthene      | 15.127 | 252  | 589201   | 21.102 | ng    | 99       |
| 90) Benzo(a)pyrene            | 15.468 | 252  | 539579   | 20.654 | ng    | 100      |
| 91) Dibenzo(a,h)anthracene    | 17.045 | 278  | 710542   | 20.980 | ng    | 99       |
| 92) Benzo(g,h,i)perylene      | 17.474 | 276  | 673228   | 20.621 | ng    | 99       |

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

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF092325\  
 Data File : BF143794.D  
 Acq On : 23 Sep 2025 12:27  
 Operator : RC/JU  
 Sample : SSTDICC020  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

## Instrument :

BNA\_F

## ClientSampleId :

SSTDICC020

## Manual Integrations

## APPROVED

Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025

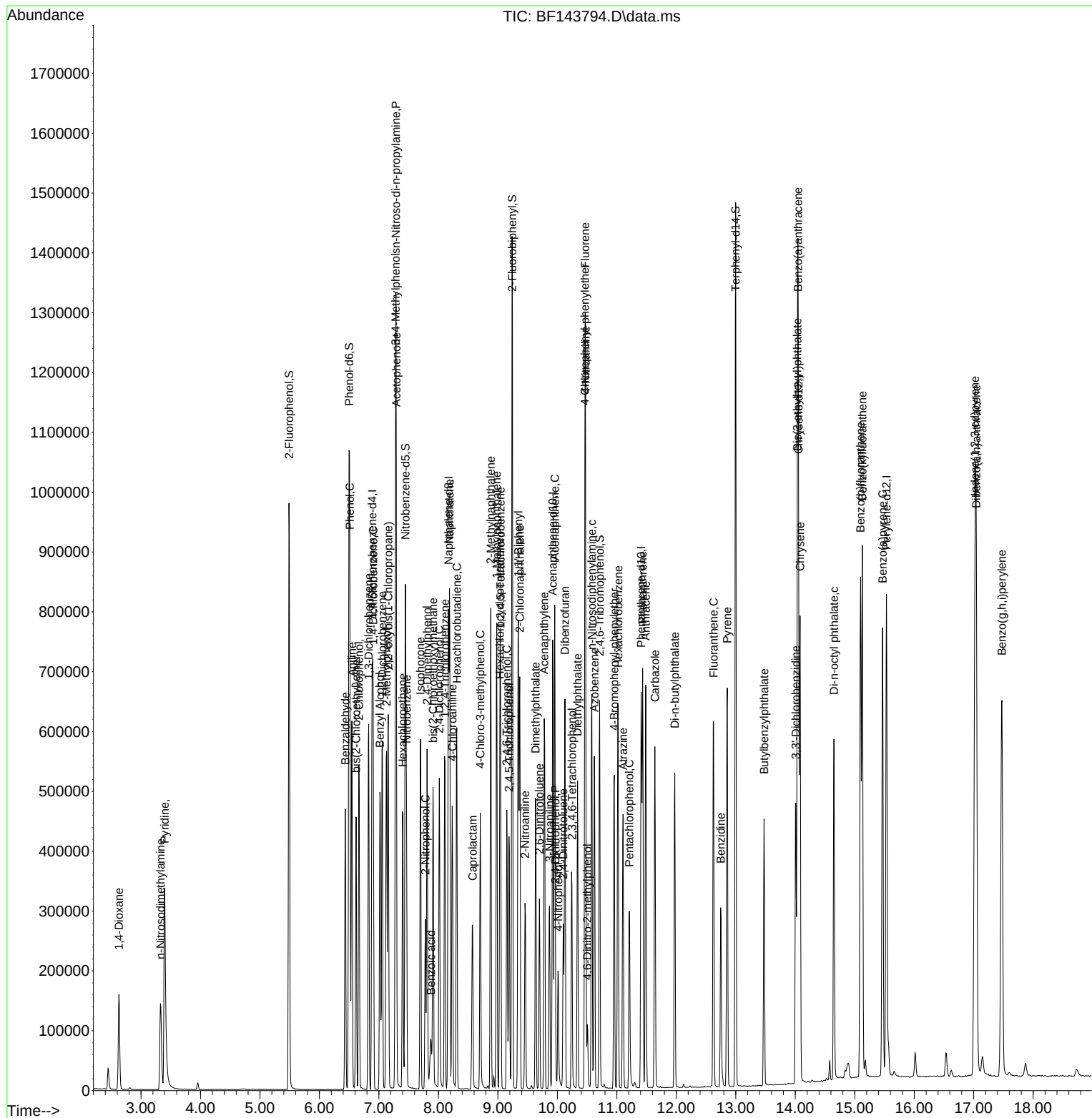
Quant Time: Sep 23 17:06:28 2025

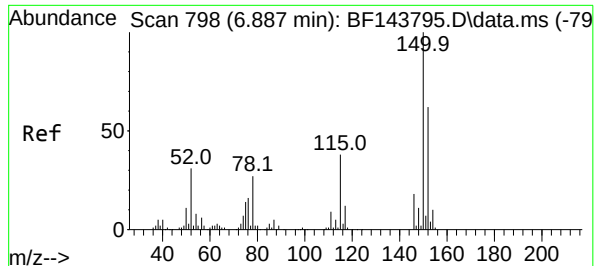
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF092325.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Tue Sep 23 16:31:21 2025

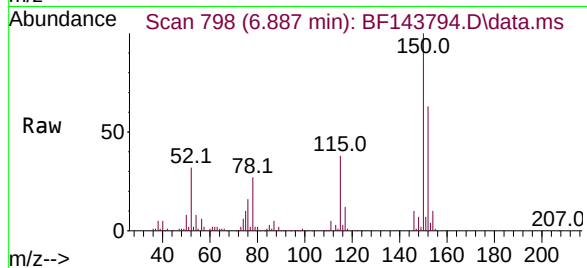
Response via : Initial Calibration





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.887 min Scan# 79  
Delta R.T. -0.000 min  
Lab File: BF143794.D  
Acq: 23 Sep 2025 12:27

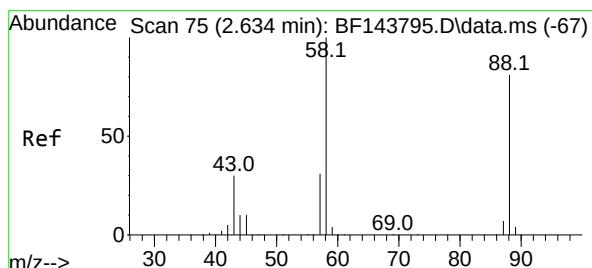
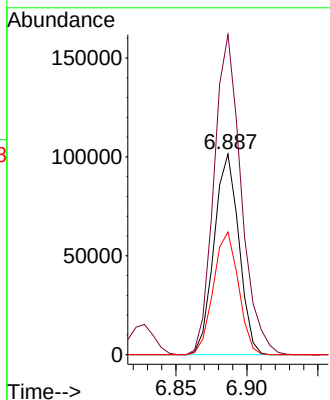
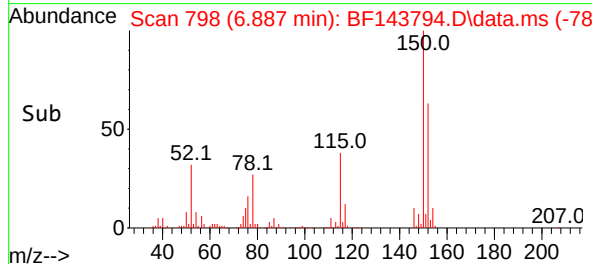
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC020



Tgt Ion:152 Resp: 123560  
Ion Ratio Lower Upper  
152 100  
150 159.6 129.6 194.4  
115 61.2 49.0 73.4

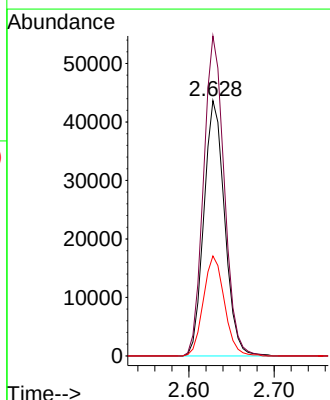
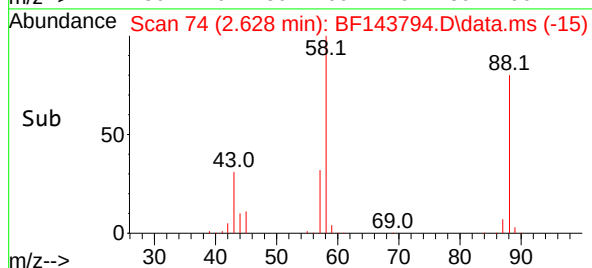
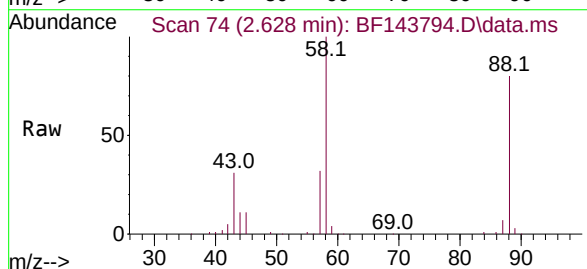
Manual Integrations  
APPROVED

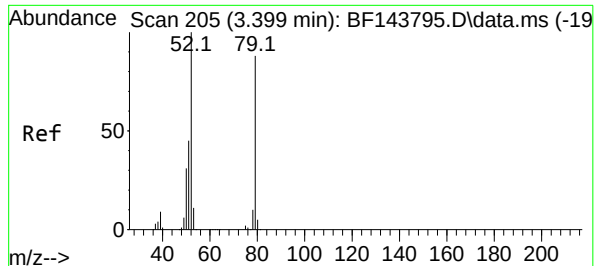
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#2  
1,4-Dioxane  
Concen: 20.313 ng  
RT: 2.628 min Scan# 74  
Delta R.T. -0.006 min  
Lab File: BF143794.D  
Acq: 23 Sep 2025 12:27

Tgt Ion: 88 Resp: 73941  
Ion Ratio Lower Upper  
88 100  
58 124.8 99.4 149.2  
43 39.5 30.6 45.8





#3

Pyridine

Concen: 20.416 ng

RT: 3.399 min Scan# 205

Delta R.T. 0.000 min

Lab File: BF143794.D

Acq: 23 Sep 2025 12:27

Instrument :

BNA\_F

ClientSampleId :

SSTDICC020

Tgt Ion: 79 Resp: 200605

Ion Ratio Lower Upper

79 100

52 110.6 90.5 135.7

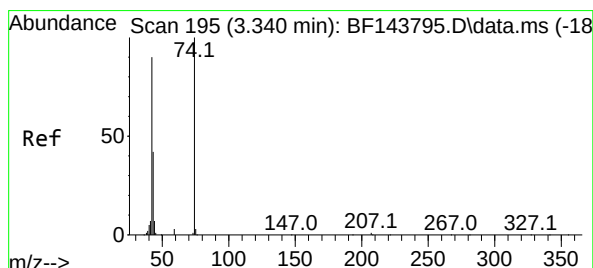
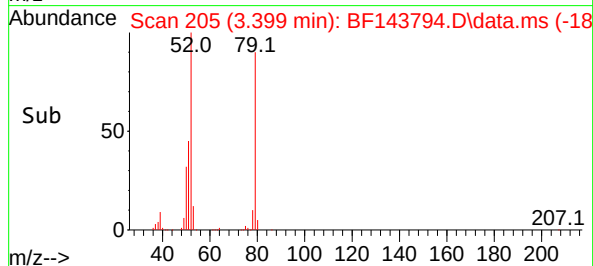
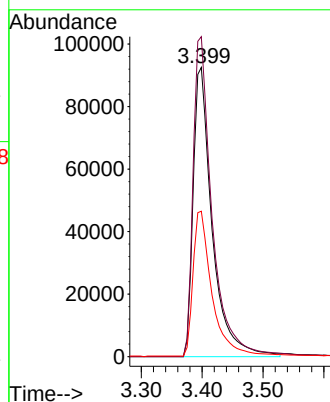
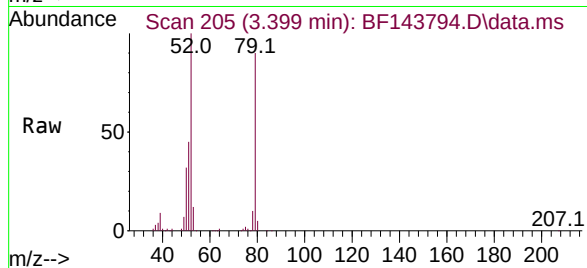
51 50.3 40.6 61.0

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#4

n-Nitrosodimethylamine

Concen: 20.357 ng

RT: 3.328 min Scan# 193

Delta R.T. -0.029 min

Lab File: BF143794.D

Acq: 23 Sep 2025 12:27

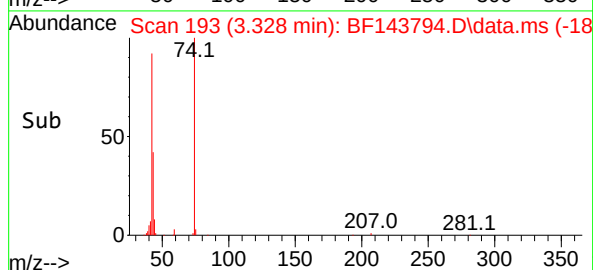
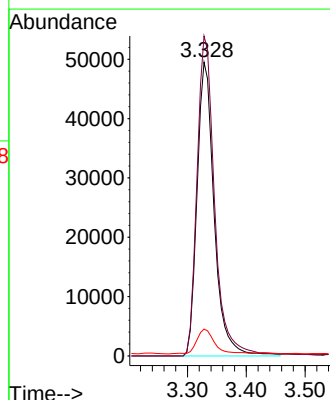
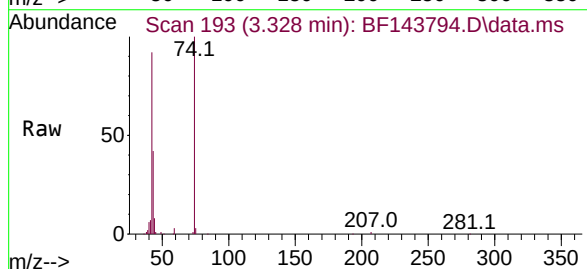
Tgt Ion: 42 Resp: 100296

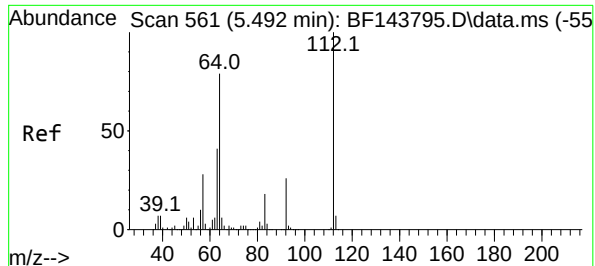
Ion Ratio Lower Upper

42 100

74 108.9 89.1 133.7

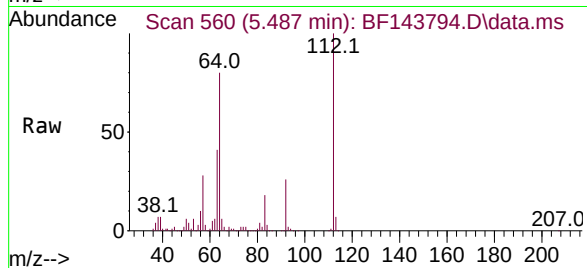
44 9.1 6.4 9.6





#5  
2-Fluorophenol  
Concen: 42.681 ng  
RT: 5.487 min Scan# 561  
Delta R.T. -0.012 min  
Lab File: BF143794.D  
Acq: 23 Sep 2025 12:27

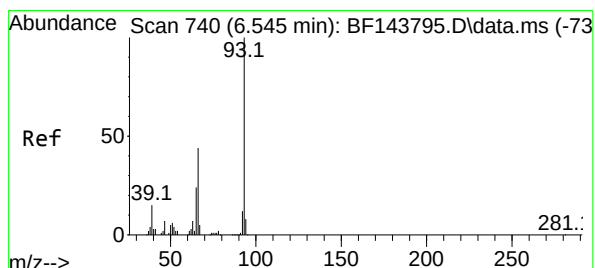
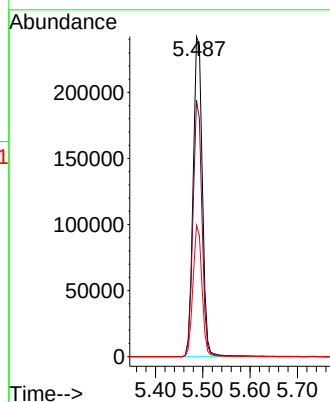
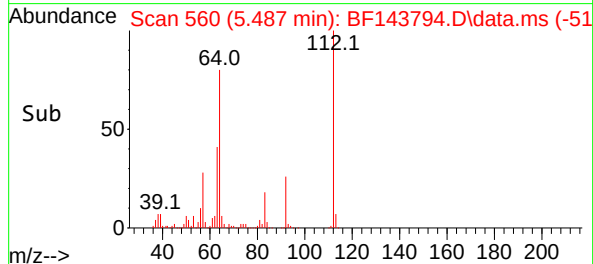
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC020



Tgt Ion:112 Resp: 32768  
Ion Ratio Lower Upper  
112 100  
64 80.1 63.0 94.4  
63 41.0 32.6 49.0

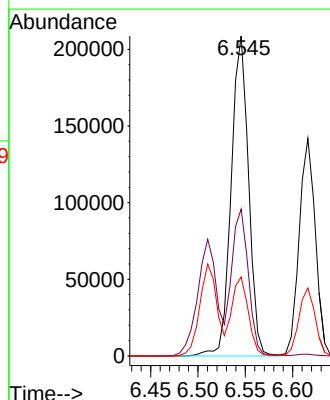
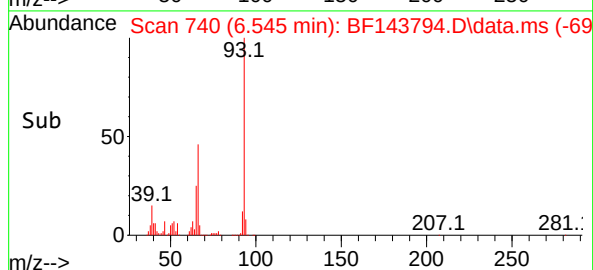
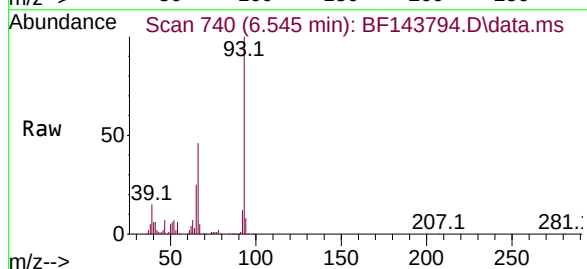
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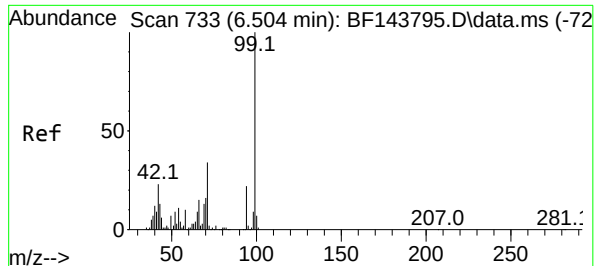
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#6  
Aniline  
Concen: 20.904 ng  
RT: 6.545 min Scan# 740  
Delta R.T. -0.006 min  
Lab File: BF143794.D  
Acq: 23 Sep 2025 12:27

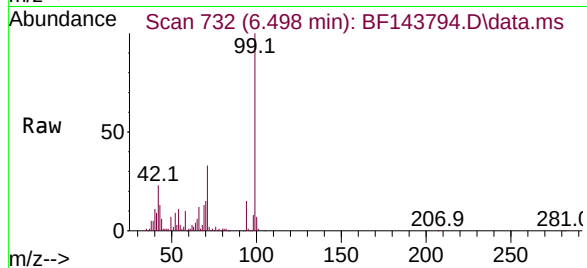
Tgt Ion: 93 Resp: 266602  
Ion Ratio Lower Upper  
93 100  
66 45.9 37.1 55.7  
65 24.6 19.4 29.0





#7  
Phenol-d6  
Concen: 41.720 ng  
RT: 6.498 min Scan# 733  
Delta R.T. -0.012 min  
Lab File: BF143794.D  
Acq: 23 Sep 2025 12:27

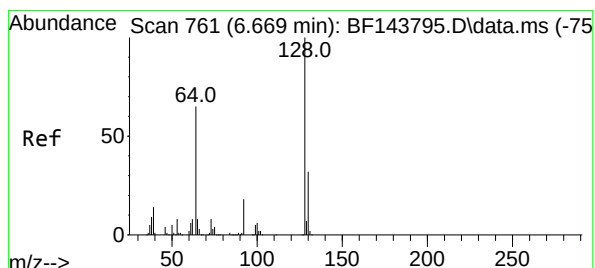
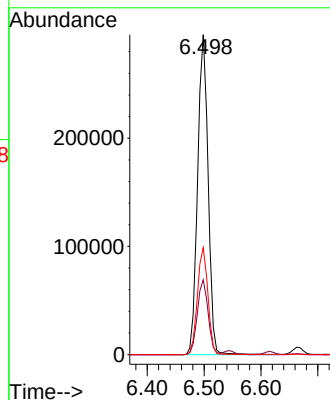
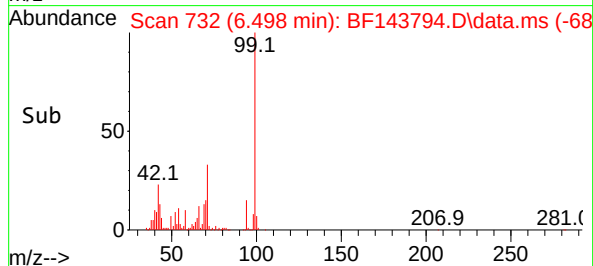
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC020



Tgt Ion: 99 Resp: 377986  
Ion Ratio Lower Upper  
99 100  
42 23.4 18.6 28.0  
71 33.4 27.0 40.4

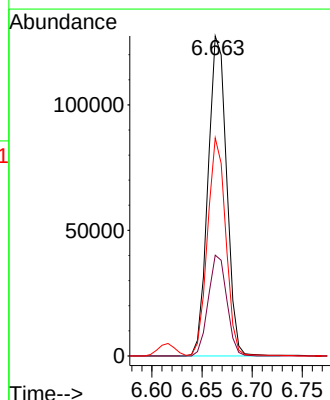
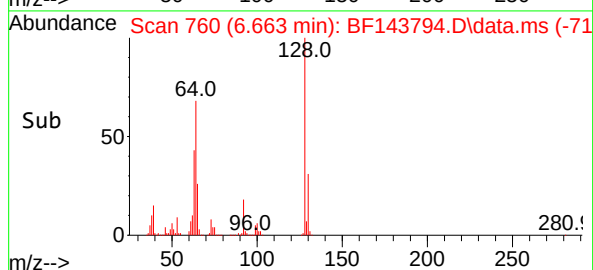
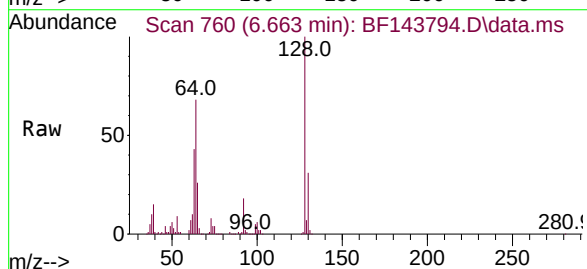
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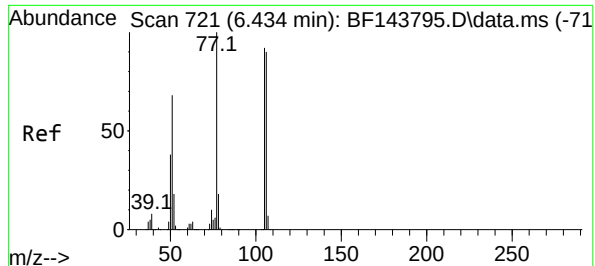


#8  
2-Chlorophenol  
Concen: 21.090 ng  
RT: 6.663 min Scan# 760  
Delta R.T. -0.006 min  
Lab File: BF143794.D  
Acq: 23 Sep 2025 12:27

Tgt Ion:128 Resp: 164198  
Ion Ratio Lower Upper  
128 100  
130 31.5 12.2 52.2  
64 68.1 46.5 86.5







#9

Benzaldehyde

Concen: 15.290 ng

RT: 6.434 min Scan# 721

Delta R.T. -0.006 min

Lab File: BF143794.D

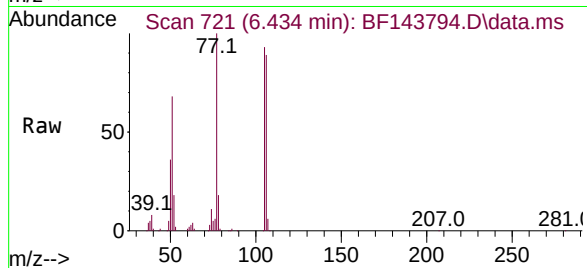
Acq: 23 Sep 2025 12:27

Instrument :

BNA\_F

ClientSampleId :

SSTDICC020



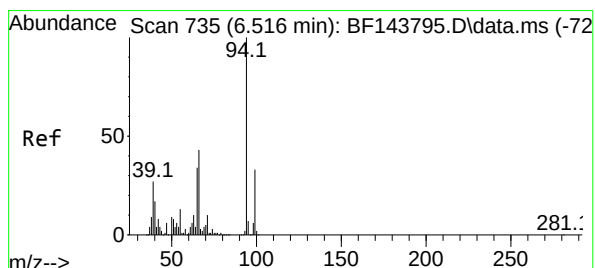
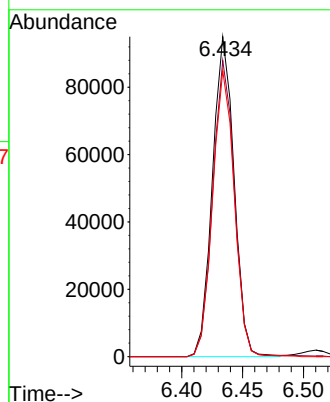
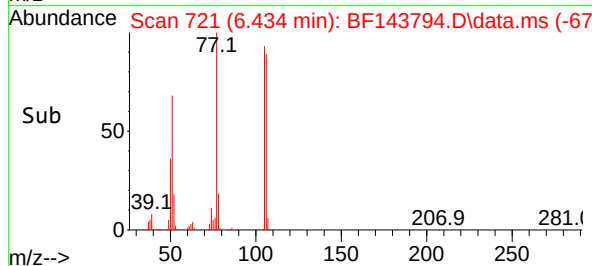
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 77    | Resp: | 117654 |
| Ion      | Ratio | Lower | Upper  |
| 77       | 100   |       |        |
| 105      | 92.5  | 71.8  | 111.8  |
| 106      | 89.3  | 69.8  | 109.8  |

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#10

Phenol

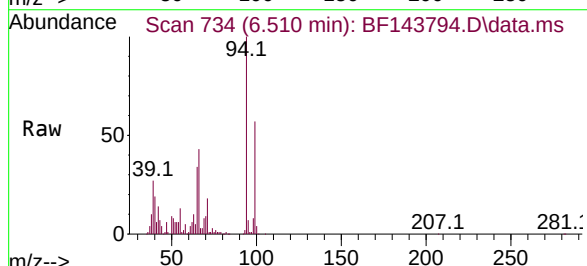
Concen: 21.008 ng m

RT: 6.510 min Scan# 734

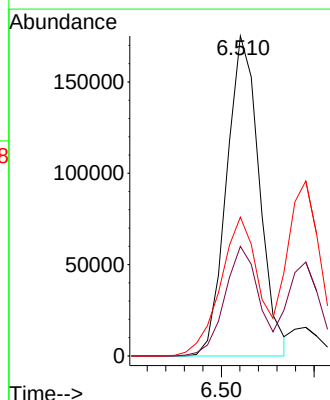
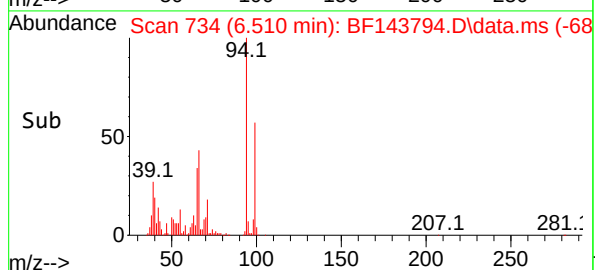
Delta R.T. -0.018 min

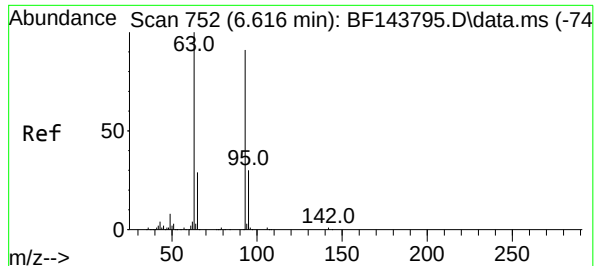
Lab File: BF143794.D

Acq: 23 Sep 2025 12:27



|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 94    | Resp: | 214576 |
| Ion      | Ratio | Lower | Upper  |
| 94       | 100   |       |        |
| 65       | 34.2  | 14.2  | 54.2   |
| 66       | 43.4  | 24.1  | 64.1   |





#11

bis(2-Chloroethyl)ether

Concen: 20.783 ng

RT: 6.616 min Scan# 752

Delta R.T. -0.006 min

Lab File: BF143794.D

Acq: 23 Sep 2025 12:27

Instrument :

BNA\_F

ClientSampleId :

SSTDICC020

Tgt Ion: 93 Resp: 166393

Ion Ratio Lower Upper

93 100

63 108.0 89.2 129.2

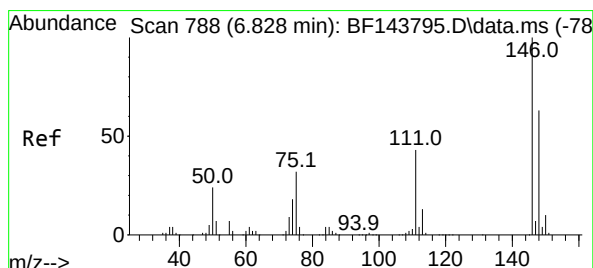
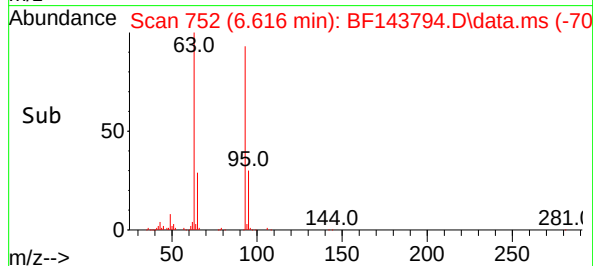
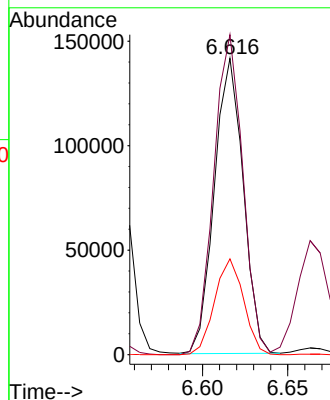
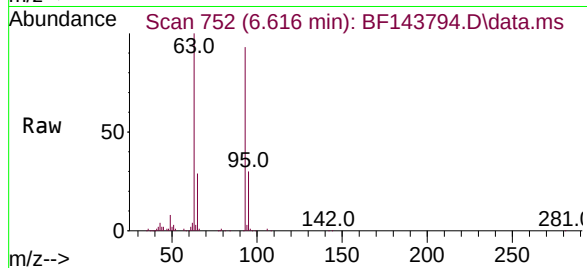
95 32.3 12.9 52.9

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Supervised By :Jagrut Upadhyay 09/24/2025



#12

1,3-Dichlorobenzene

Concen: 21.268 ng

RT: 6.828 min Scan# 788

Delta R.T. 0.000 min

Lab File: BF143794.D

Acq: 23 Sep 2025 12:27

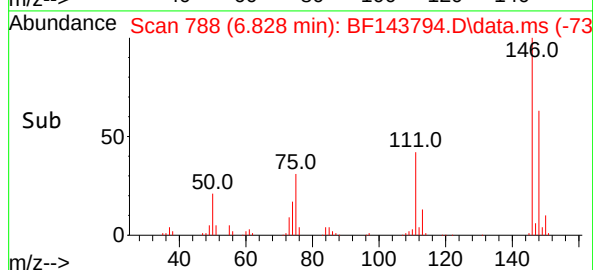
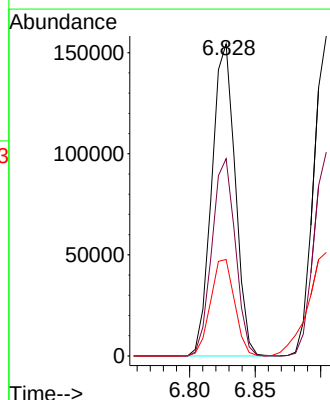
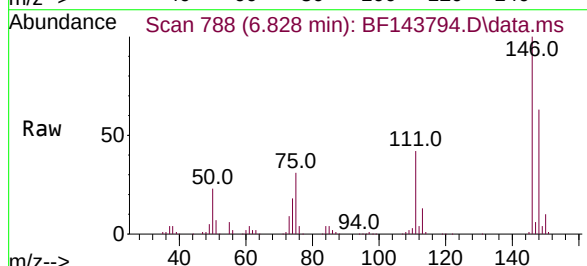
Tgt Ion:146 Resp: 192258

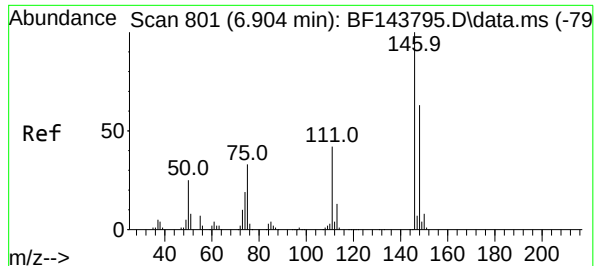
Ion Ratio Lower Upper

146 100

148 63.2 50.4 75.6

75 30.9 25.6 38.4





#13

1,4-Dichlorobenzene

Concen: 21.223 ng

RT: 6.904 min Scan# 801

Delta R.T. 0.000 min

Lab File: BF143794.D

Acq: 23 Sep 2025 12:27

Instrument :

BNA\_F

ClientSampleId :

SSTDICC020

Tgt Ion:146 Resp: 191454

Ion Ratio Lower Upper

146 100

148 63.7 50.7 76.1

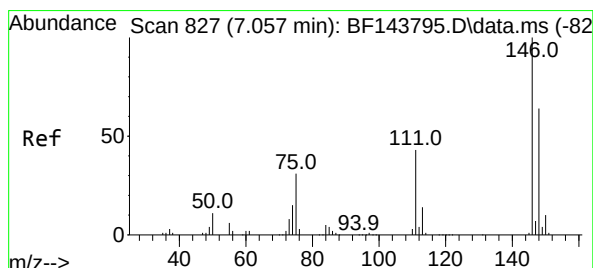
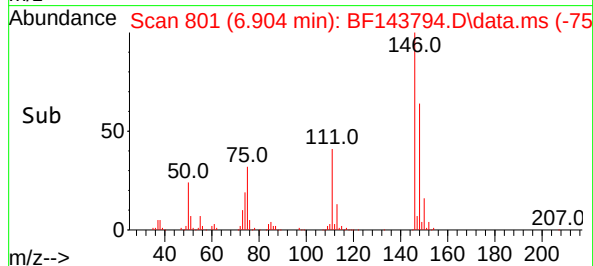
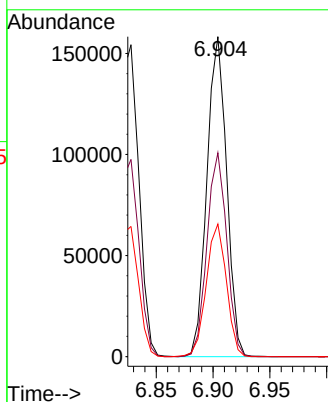
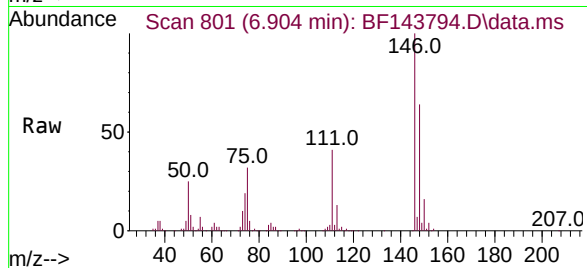
111 41.4 33.4 50.2

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Supervised By :Jagrut Upadhyay 09/24/2025



#14

1,2-Dichlorobenzene

Concen: 21.185 ng

RT: 7.057 min Scan# 827

Delta R.T. 0.000 min

Lab File: BF143794.D

Acq: 23 Sep 2025 12:27

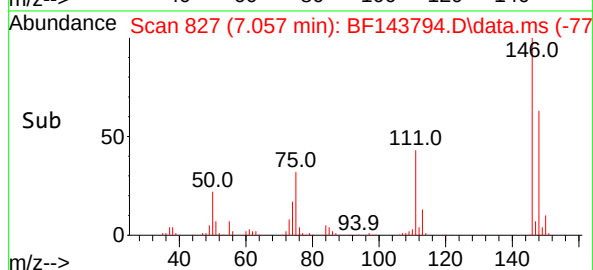
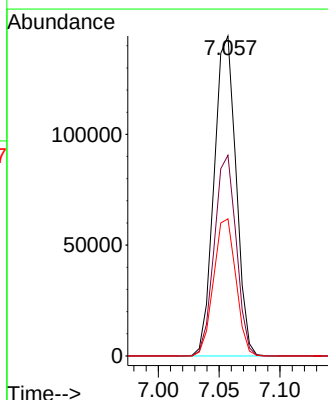
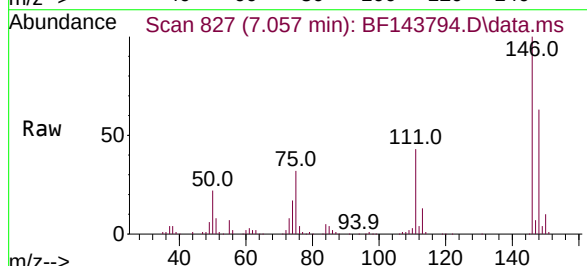
Tgt Ion:146 Resp: 181008

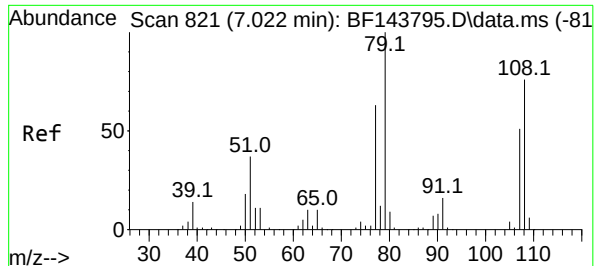
Ion Ratio Lower Upper

146 100

148 62.7 51.1 76.7

111 42.9 34.3 51.5





#15

Benzyl Alcohol

Concen: 20.902 ng

RT: 7.016 min Scan# 81

Delta R.T. -0.012 min

Lab File: BF143794.D

Acq: 23 Sep 2025 12:27

Instrument :

BNA\_F

ClientSampleId :

SSTDICC020

Tgt Ion: 79 Resp: 132713

Ion Ratio Lower Upper

79 100

108 74.3 60.5 90.7

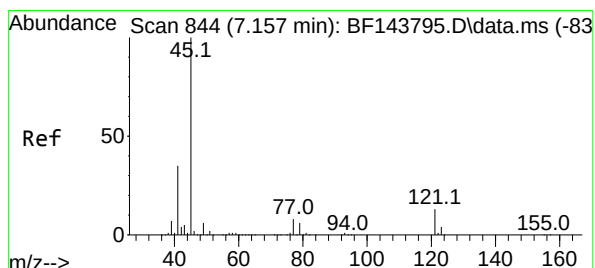
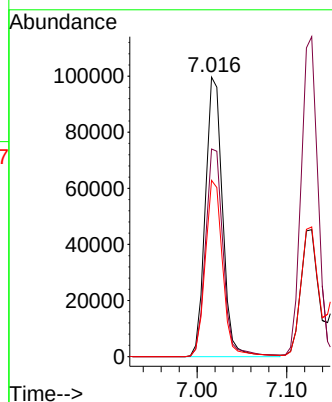
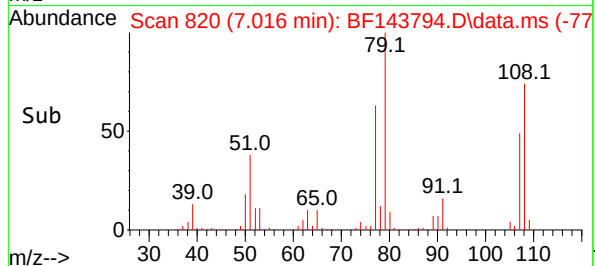
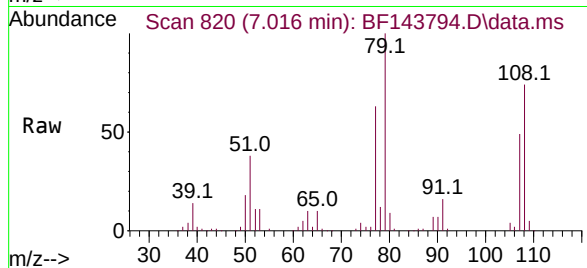
77 63.1 50.3 75.5

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#16

2,2'-oxybis(1-Chloropropane)

Concen: 20.985 ng

RT: 7.157 min Scan# 844

Delta R.T. 0.000 min

Lab File: BF143794.D

Acq: 23 Sep 2025 12:27

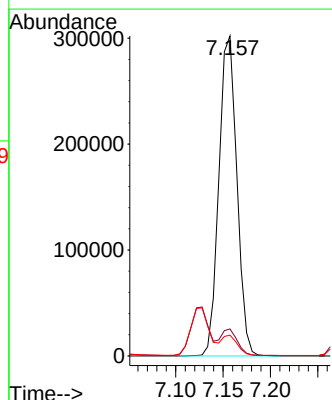
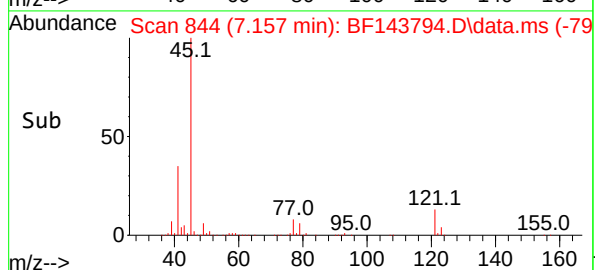
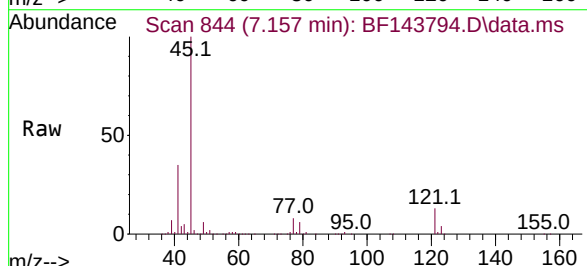
Tgt Ion: 45 Resp: 398403

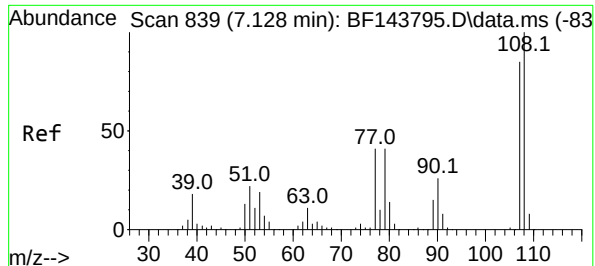
Ion Ratio Lower Upper

45 100

77 8.4 0.0 28.5

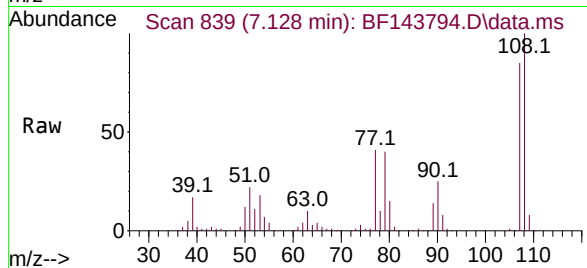
79 6.5 0.0 26.3





#17  
2-Methylphenol  
Concen: 20.674 ng  
RT: 7.128 min Scan# 839  
Delta R.T. -0.006 min  
Lab File: BF143794.D  
Acq: 23 Sep 2025 12:27

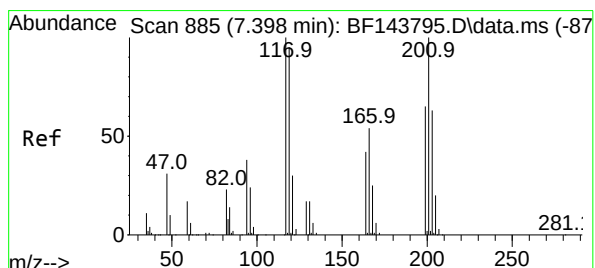
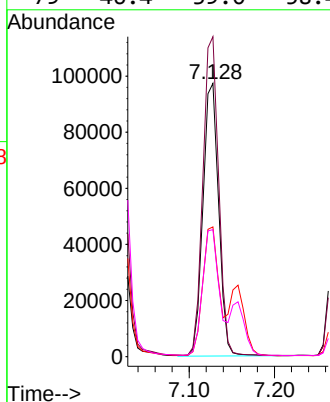
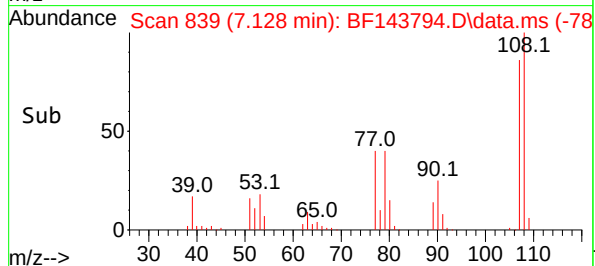
Instrument :  
BNA\_F  
Client Sample Id :  
SSTDICC020



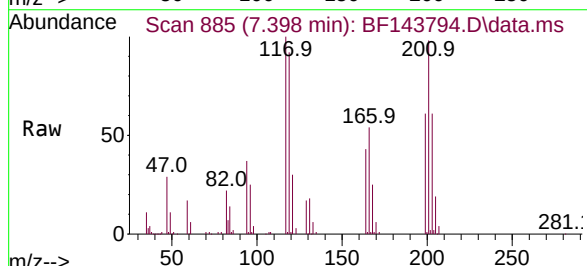
Tgt Ion:107 Resp: 124617  
Ion Ratio Lower Upper  
107 100  
108 117.1 94.2 141.4  
77 47.4 38.6 58.0  
79 46.4 39.0 58.4

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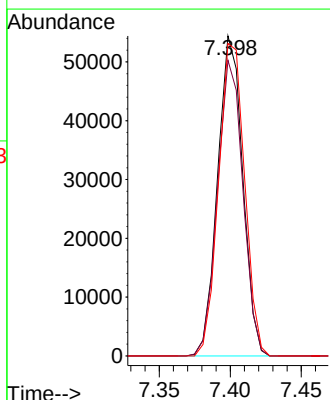
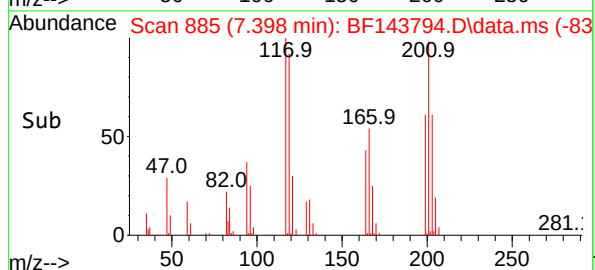
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025

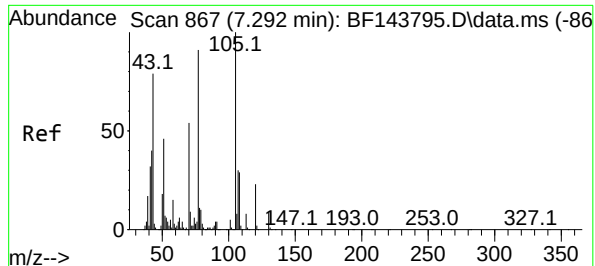


#18  
Hexachloroethane  
Concen: 21.134 ng  
RT: 7.398 min Scan# 885  
Delta R.T. -0.006 min  
Lab File: BF143794.D  
Acq: 23 Sep 2025 12:27



Tgt Ion:117 Resp: 67048  
Ion Ratio Lower Upper  
117 100  
119 92.4 76.2 114.2  
201 97.6 79.7 119.5





#19

n-Nitroso-di-n-propylamine

Concen: 20.254 ng

RT: 7.287 min Scan# 866

Delta R.T. -0.018 min

Lab File: BF143794.D

Acq: 23 Sep 2025 12:27

Instrument :

BNA\_F

ClientSampleId :

SSTDICC020

Tgt Ion: 70 Resp: 114449

Ion Ratio Lower Upper

70 100

42 74.5 59.4 89.0

101 9.0 7.1 10.7

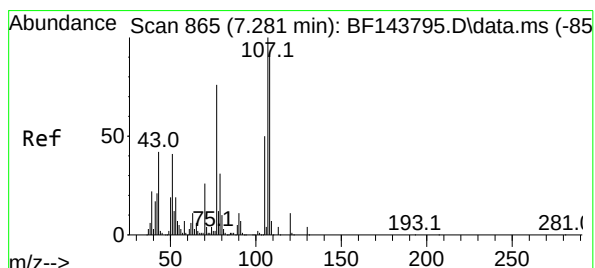
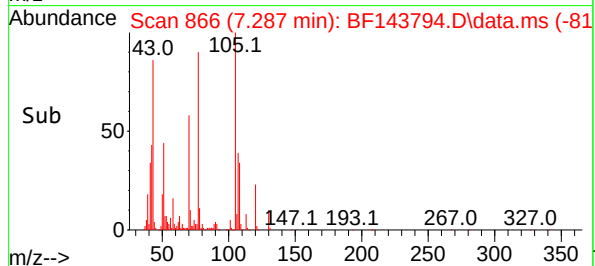
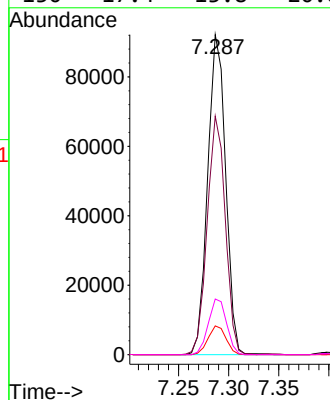
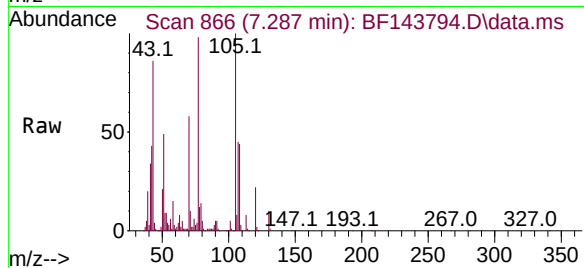
130 17.4 13.8 20.8

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Supervised By :Jagrut Upadhyay 09/24/2025



#20

3+4-Methylphenols

Concen: 21.145 ng

RT: 7.281 min Scan# 865

Delta R.T. -0.006 min

Lab File: BF143794.D

Acq: 23 Sep 2025 12:27

Tgt Ion:107 Resp: 155211

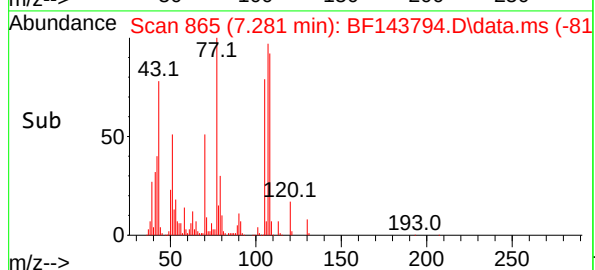
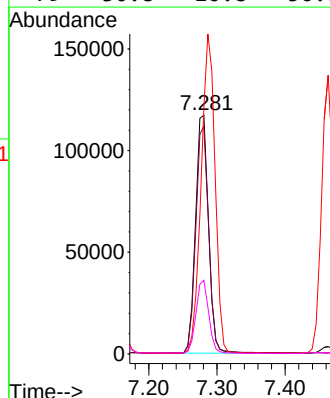
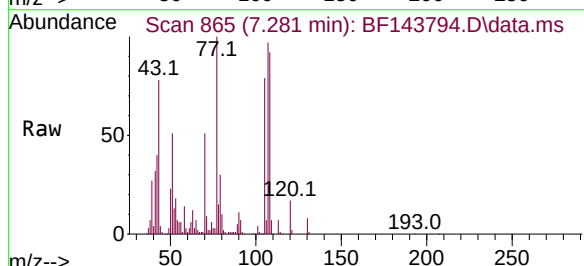
Ion Ratio Lower Upper

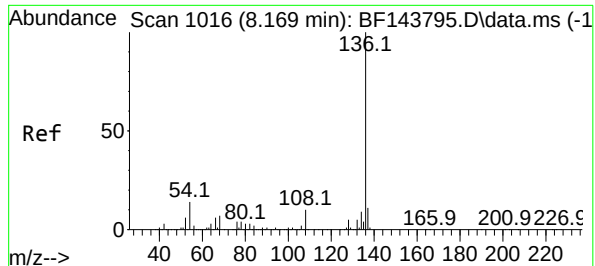
107 100

108 95.5 72.5 112.5

77 103.4 56.2 96.2#

79 30.8 10.8 50.8





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.169 min Scan# 1016

Delta R.T. -0.000 min

Lab File: BF143794.D

Acq: 23 Sep 2025 12:27

Instrument :

BNA\_F

ClientSampleId :

SSTDICC020

Tgt Ion:136 Resp: 446120

Ion Ratio Lower Upper

136 100

137 10.8 9.0 13.4

54 13.7 11.2 16.8

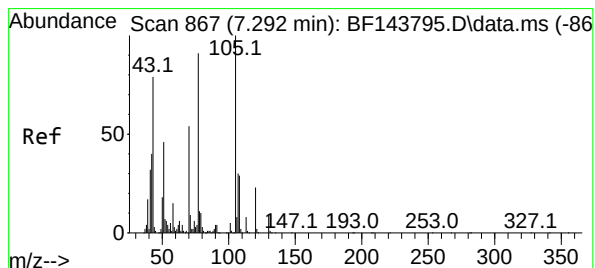
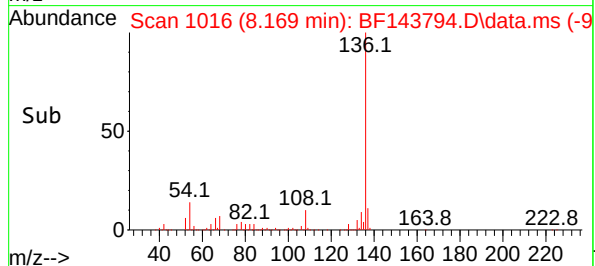
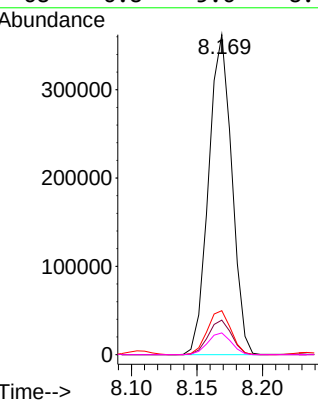
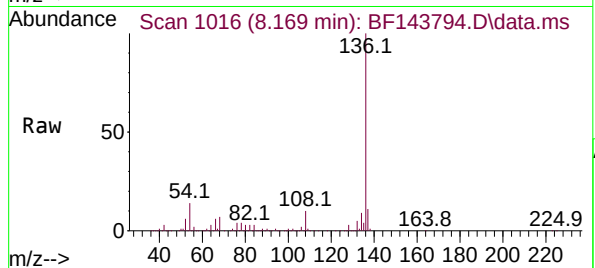
68 6.8 5.6 8.4

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#22

Acetophenone

Concen: 21.319 ng

RT: 7.293 min Scan# 867

Delta R.T. -0.006 min

Lab File: BF143794.D

Acq: 23 Sep 2025 12:27

Tgt Ion:105 Resp: 208896

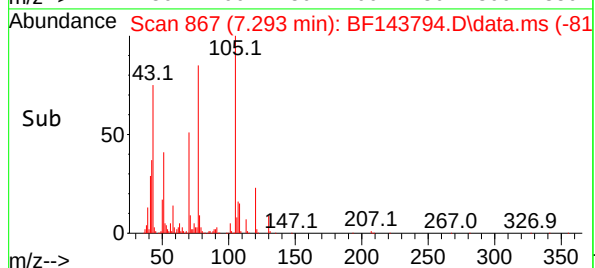
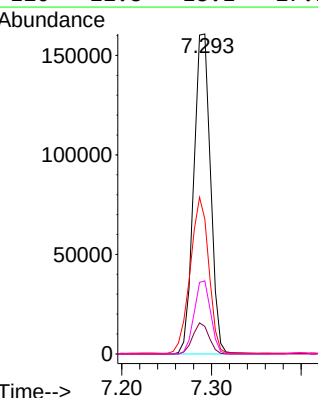
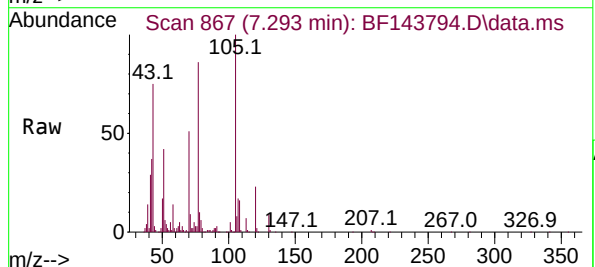
Ion Ratio Lower Upper

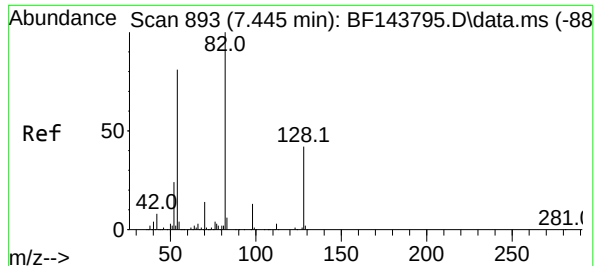
105 100

71 8.6 7.0 10.4

51 42.2 36.6 55.0

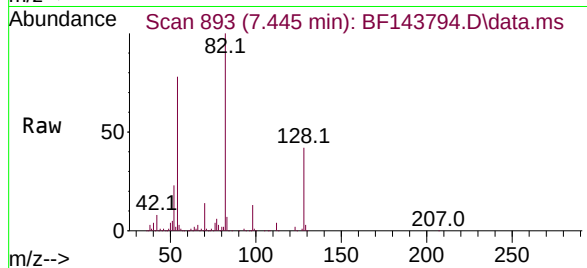
120 22.8 18.1 27.1





#23  
Nitrobenzene-d5  
Concen: 42.621 ng  
RT: 7.445 min Scan# 893  
Delta R.T. -0.006 min  
Lab File: BF143794.D  
Acq: 23 Sep 2025 12:27

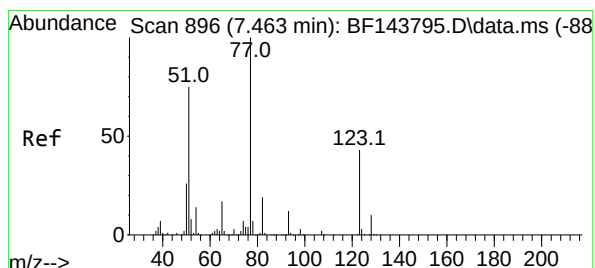
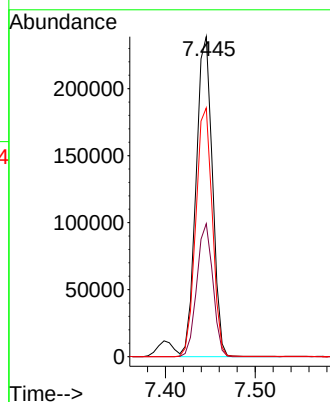
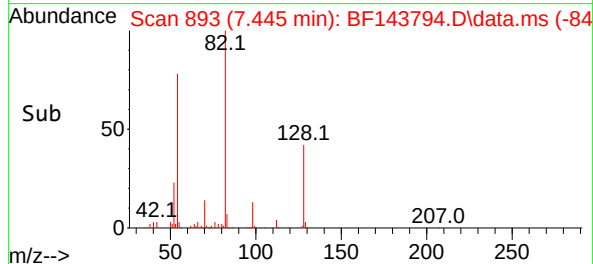
Instrument :  
BNA\_F  
Client Sample Id :  
SSTDICC020



Tgt Ion: 82 Resp: 302138  
Ion Ratio Lower Upper  
82 100  
128 41.5 33.3 49.9  
54 77.7 64.2 96.4

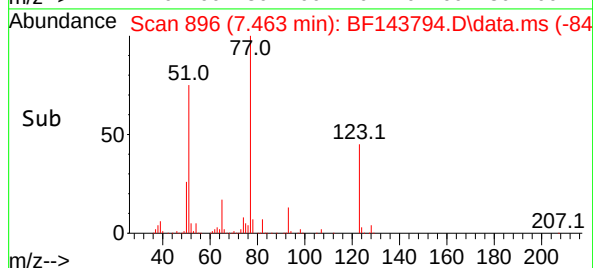
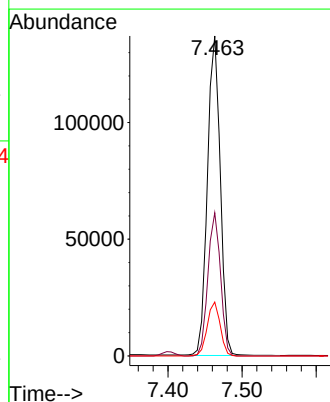
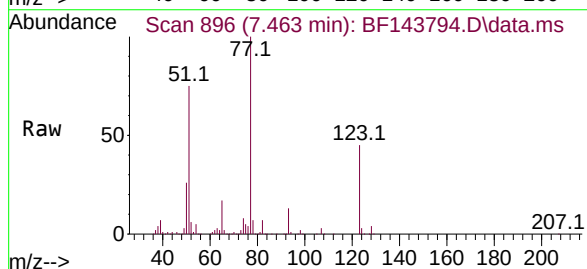
Manual Integrations  
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Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025

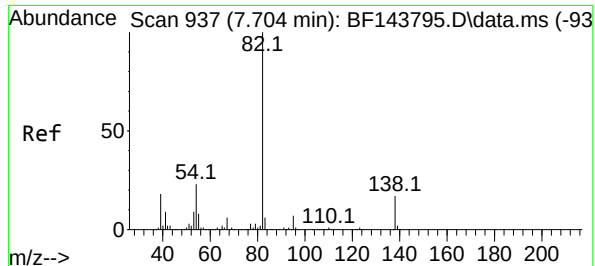


#24  
Nitrobenzene  
Concen: 20.402 ng  
RT: 7.463 min Scan# 896  
Delta R.T. -0.012 min  
Lab File: BF143794.D  
Acq: 23 Sep 2025 12:27

Tgt Ion: 77 Resp: 164815  
Ion Ratio Lower Upper  
77 100  
123 44.7 34.0 51.0  
65 16.8 13.5 20.3







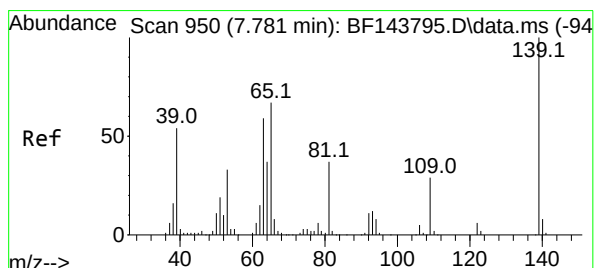
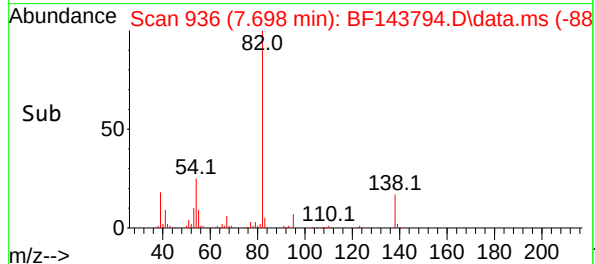
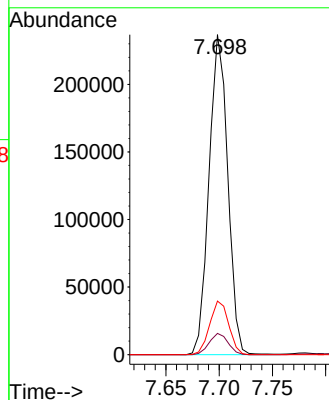
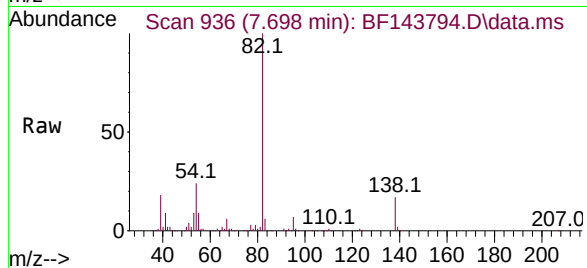
#25  
Isophorone  
Concen: 20.396 ng  
RT: 7.698 min Scan# 937  
Delta R.T. -0.012 min  
Lab File: BF143794.D  
Acq: 23 Sep 2025 12:27

Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC020

Tgt Ion: 82 Resp: 289674  
Ion Ratio Lower Upper  
82 100  
95 6.6 5.4 8.2  
138 16.7 13.7 20.5

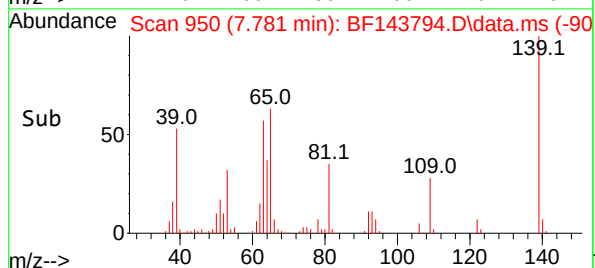
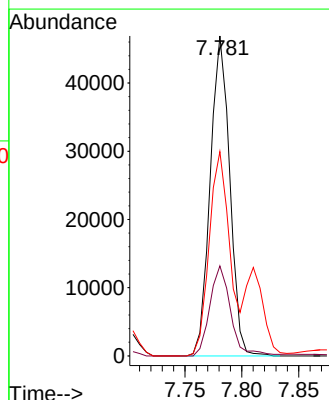
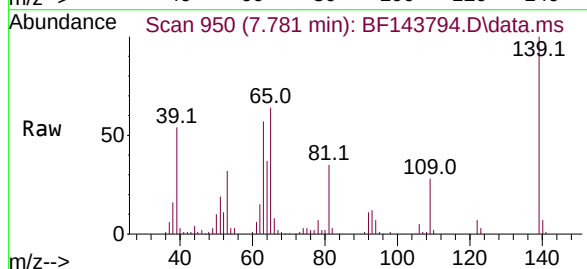
Manual Integrations  
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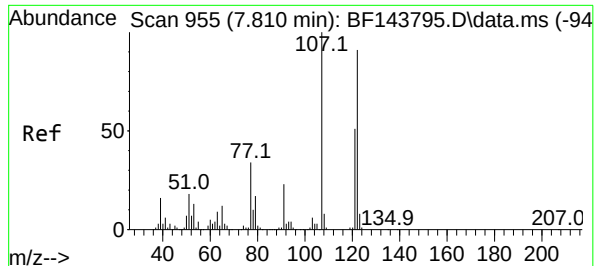
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#26  
2-Nitrophenol  
Concen: 18.629 ng  
RT: 7.781 min Scan# 950  
Delta R.T. -0.005 min  
Lab File: BF143794.D  
Acq: 23 Sep 2025 12:27

Tgt Ion:139 Resp: 55948  
Ion Ratio Lower Upper  
139 100  
109 28.1 23.3 34.9  
65 63.8 53.8 80.6





#27

2,4-Dimethylphenol

Concen: 20.437 ng

RT: 7.810 min Scan# 91

Delta R.T. -0.006 min

Lab File: BF143794.D

Acq: 23 Sep 2025 12:27

Instrument :

BNA\_F

ClientSampleId :

SSTDICC020

Tgt Ion:122 Resp: 129731

Ion Ratio Lower Upper

122 100

107 108.1 87.5 131.3

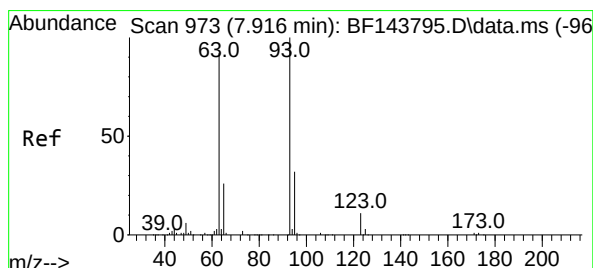
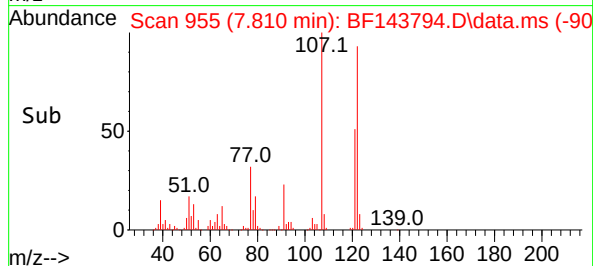
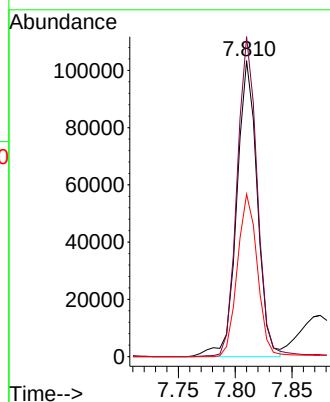
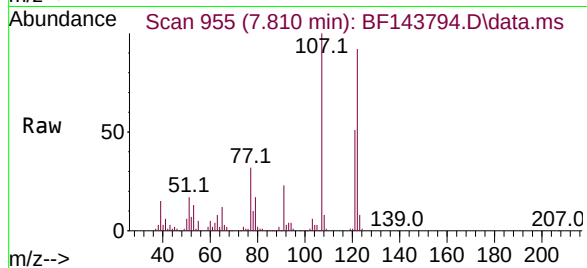
121 54.9 44.2 66.4

Manual Integrations

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Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#28

bis(2-Chloroethoxy)methane

Concen: 20.802 ng

RT: 7.910 min Scan# 972

Delta R.T. -0.006 min

Lab File: BF143794.D

Acq: 23 Sep 2025 12:27

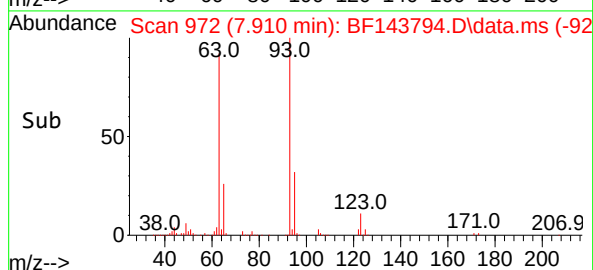
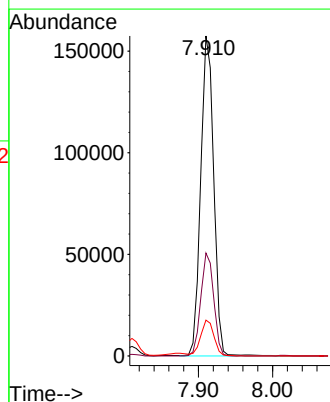
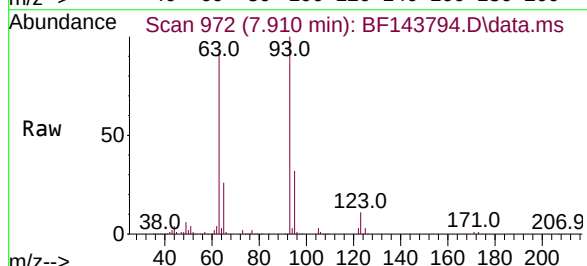
Tgt Ion: 93 Resp: 191947

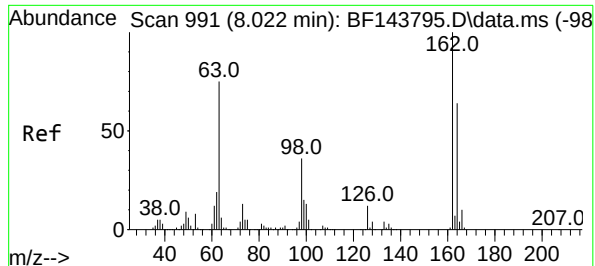
Ion Ratio Lower Upper

93 100

95 32.1 25.8 38.8

123 11.2 8.8 13.2





#29

2,4-Dichlorophenol

Concen: 20.597 ng

RT: 8.016 min Scan# 991

Delta R.T. -0.006 min

Lab File: BF143794.D

Acq: 23 Sep 2025 12:27

Instrument :

BNA\_F

ClientSampleId :

SSTDICC020

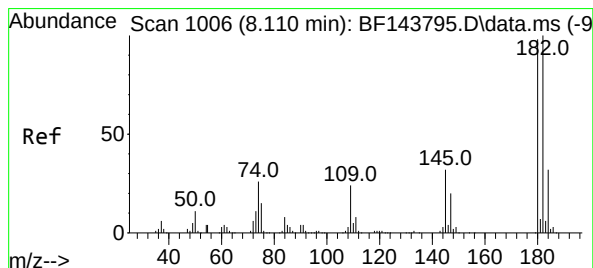
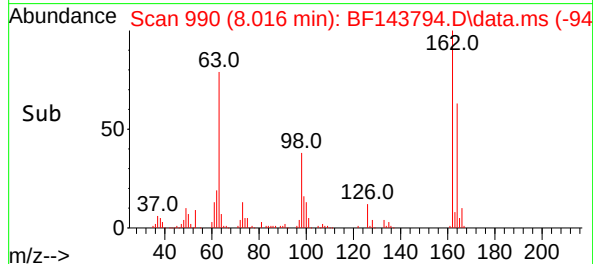
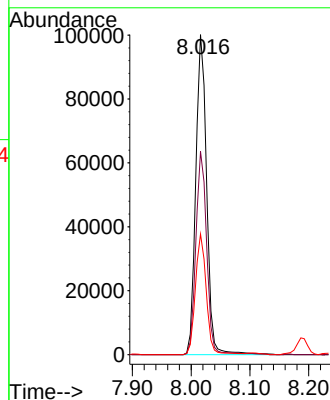
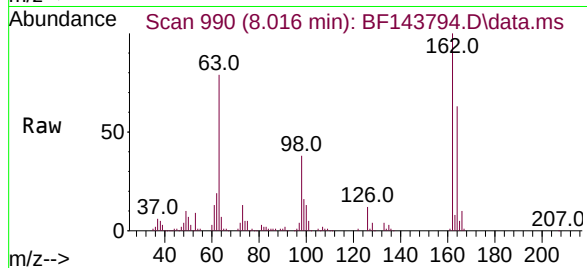
| Tgt Ion:  | 162   | Resp: | 12865 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 162       | 100   |       |       |
| 164       | 63.5  | 44.1  | 84.1  |
| 98        | 37.7  | 15.8  | 55.8  |

Manual Integrations

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Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#30

1,2,4-Trichlorobenzene

Concen: 20.952 ng

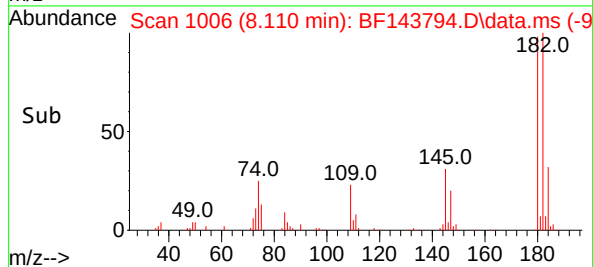
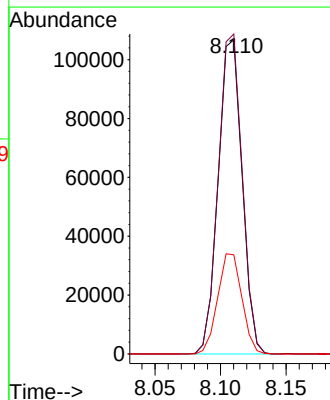
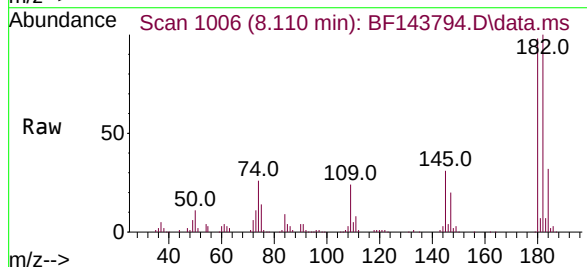
RT: 8.110 min Scan# 1006

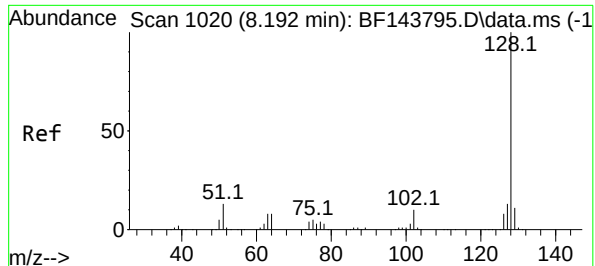
Delta R.T. 0.000 min

Lab File: BF143794.D

Acq: 23 Sep 2025 12:27

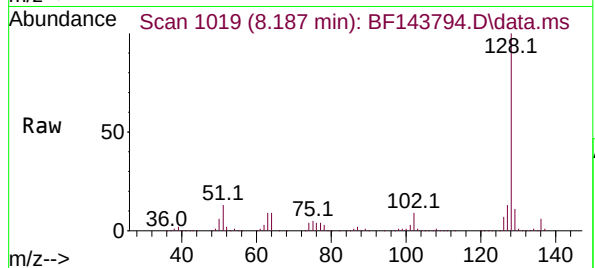
| Tgt Ion:  | 180   | Resp: | 135810 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 180       | 100   |       |        |
| 182       | 101.9 | 82.0  | 123.0  |
| 145       | 31.6  | 25.9  | 38.9   |





#31  
Naphthalene  
Concen: 21.308 ng  
RT: 8.187 min Scan# 1019  
Delta R.T. -0.006 min  
Lab File: BF143794.D  
Acq: 23 Sep 2025 12:27

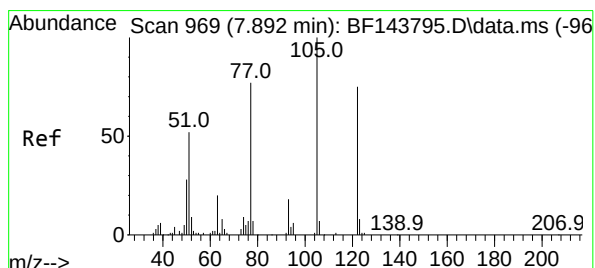
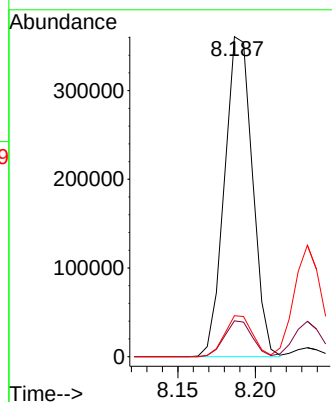
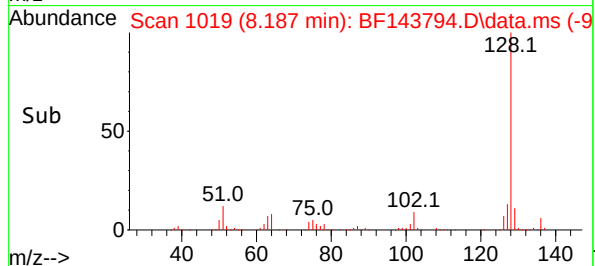
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC020



Tgt Ion:128 Resp: 455060  
Ion Ratio Lower Upper  
128 100  
129 11.2 8.8 13.2  
127 12.8 10.2 15.4

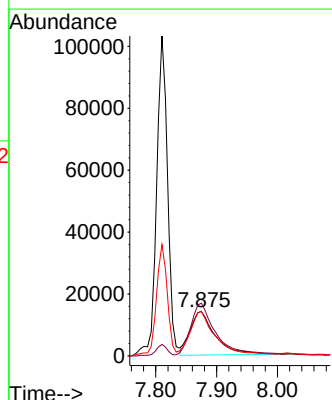
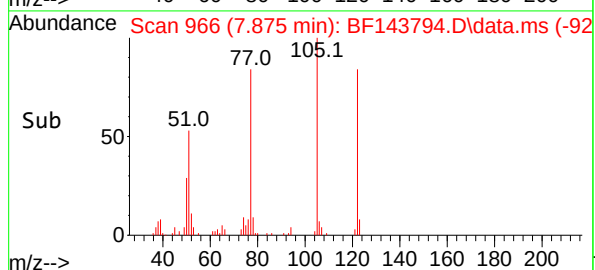
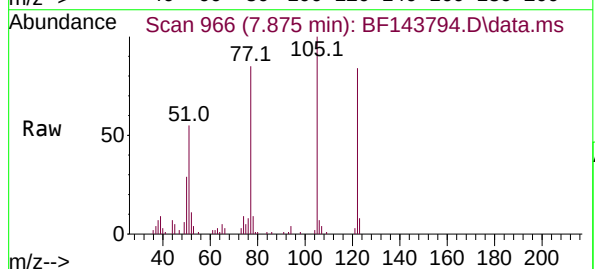
Manual Integrations  
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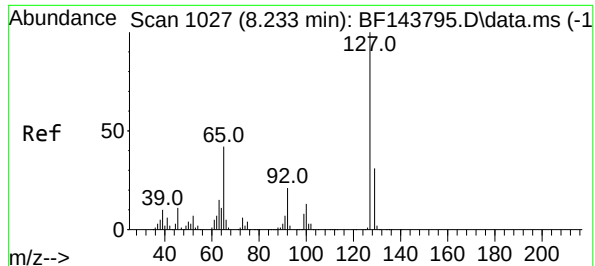
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#32  
Benzoic acid  
Concen: 13.254 ng  
RT: 7.875 min Scan# 966  
Delta R.T. -0.047 min  
Lab File: BF143794.D  
Acq: 23 Sep 2025 12:27

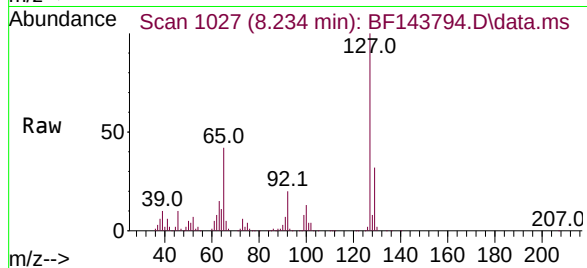
Tgt Ion:122 Resp: 40592  
Ion Ratio Lower Upper  
122 100  
105 118.4 103.7 143.7  
77 100.2 78.8 118.8





#33  
4-Chloroaniline  
Concen: 20.978 ng  
RT: 8.234 min Scan# 1027  
Delta R.T. -0.006 min  
Lab File: BF143794.D  
Acq: 23 Sep 2025 12:27

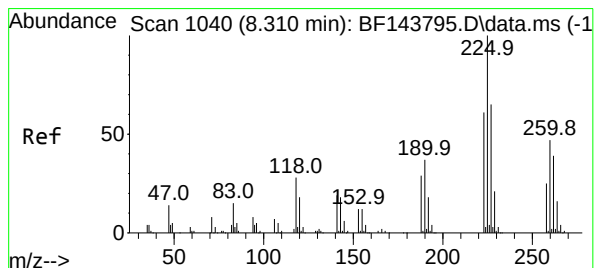
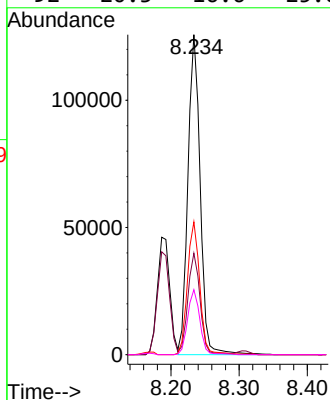
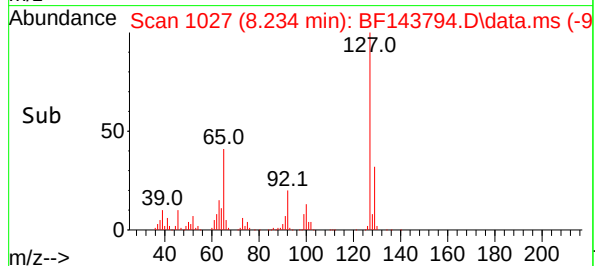
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC020



Tgt Ion:127 Resp: 157439  
Ion Ratio Lower Upper  
127 100  
129 31.7 25.4 38.2  
65 41.5 33.4 50.2  
92 20.3 16.6 25.0

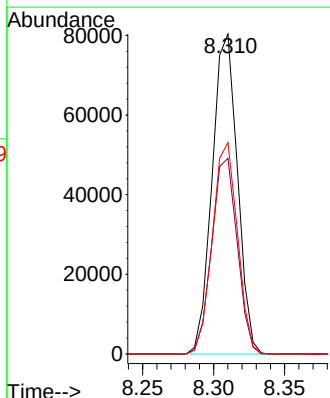
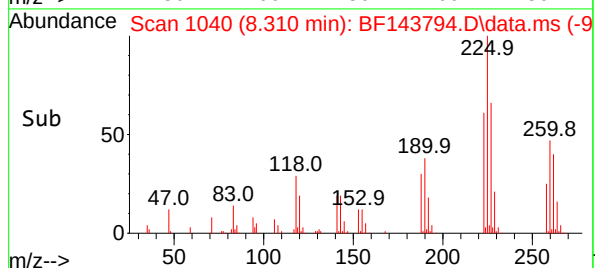
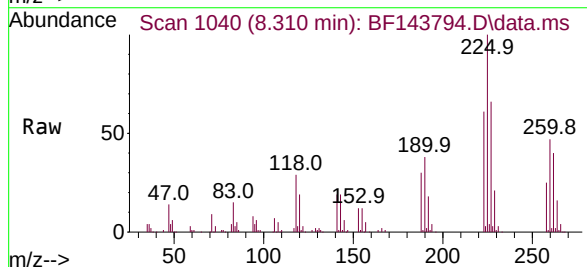
Manual Integrations  
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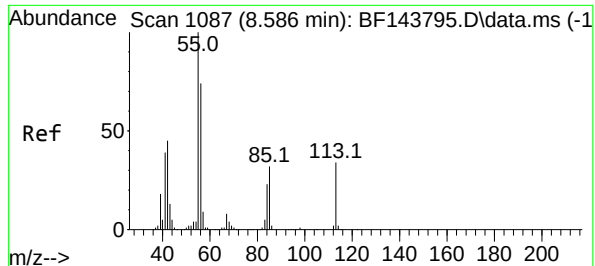
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#34  
Hexachlorobutadiene  
Concen: 20.595 ng  
RT: 8.310 min Scan# 1040  
Delta R.T. 0.000 min  
Lab File: BF143794.D  
Acq: 23 Sep 2025 12:27

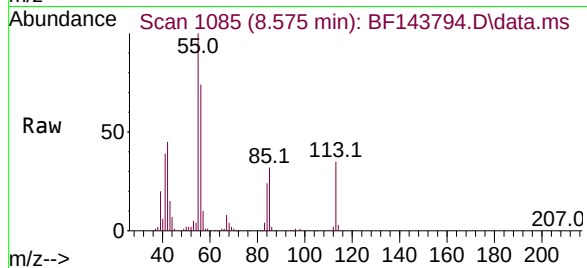
Tgt Ion:225 Resp: 99520  
Ion Ratio Lower Upper  
225 100  
223 61.1 48.6 72.8  
227 66.0 51.9 77.9





#35  
Caprolactam  
Concen: 19.385 ng  
RT: 8.575 min Scan# 1085  
Delta R.T. -0.035 min  
Lab File: BF143794.D  
Acq: 23 Sep 2025 12:27

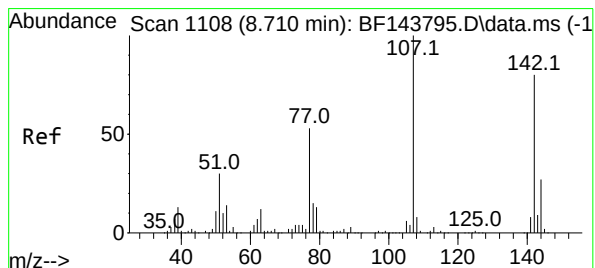
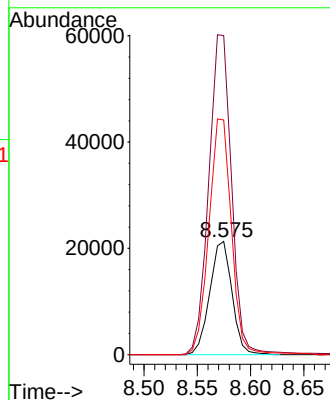
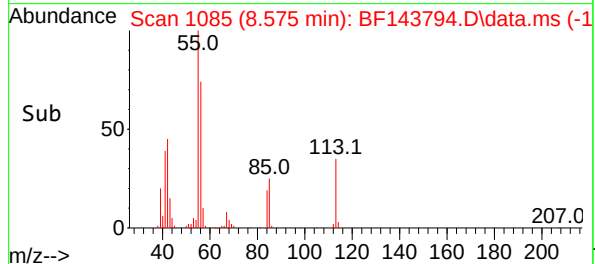
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC020



Tgt Ion:113 Resp: 30948  
Ion Ratio Lower Upper  
113 100  
55 282.0 271.7 311.7  
56 207.4 194.5 234.5

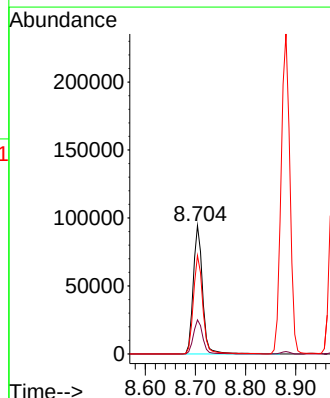
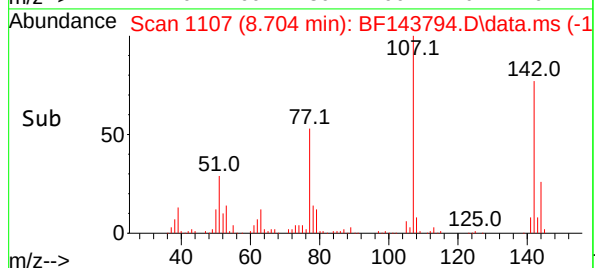
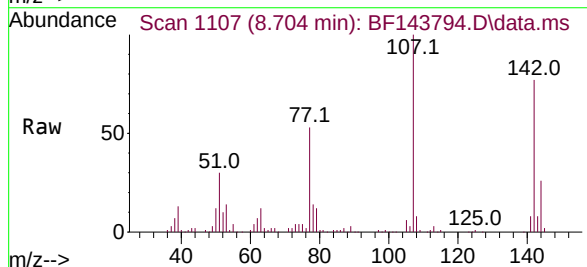
Manual Integrations  
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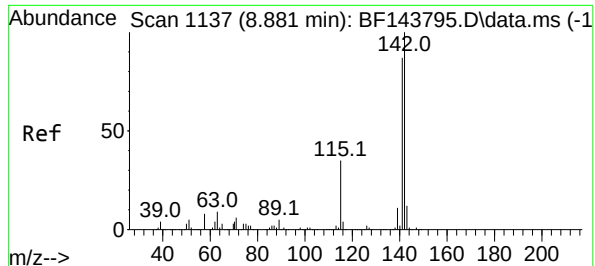
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#36  
4-Chloro-3-methylphenol  
Concen: 20.667 ng  
RT: 8.704 min Scan# 1107  
Delta R.T. -0.006 min  
Lab File: BF143794.D  
Acq: 23 Sep 2025 12:27

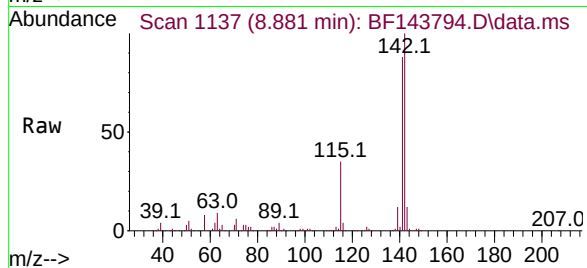
Tgt Ion:107 Resp: 121067  
Ion Ratio Lower Upper  
107 100  
144 26.5 21.8 32.8  
142 76.6 63.6 95.4





#37  
2-Methylnaphthalene  
Concen: 21.060 ng  
RT: 8.881 min Scan# 1137  
Delta R.T. 0.000 min  
Lab File: BF143794.D  
Acq: 23 Sep 2025 12:27

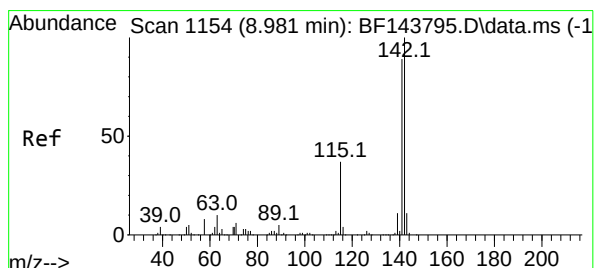
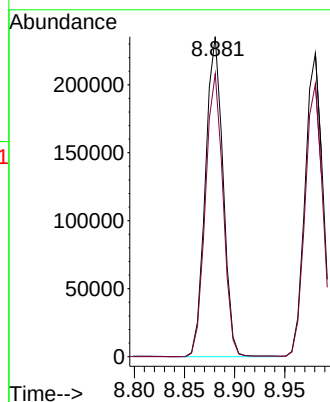
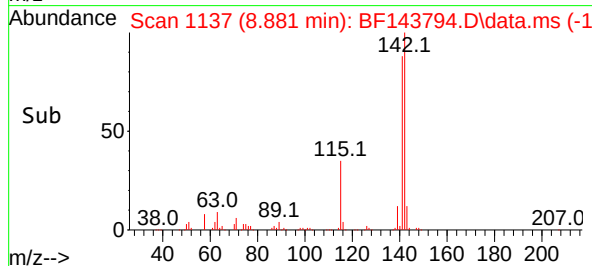
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC020



Tgt Ion:142 Resp: 286790  
Ion Ratio Lower Upper  
142 100  
141 88.4 69.4 104.0

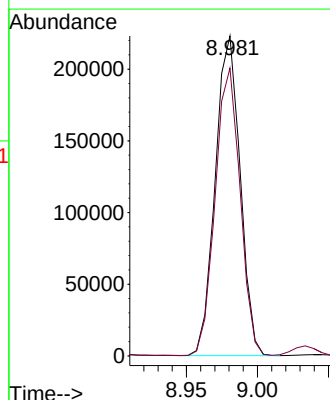
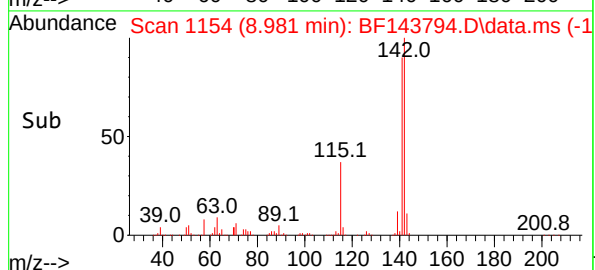
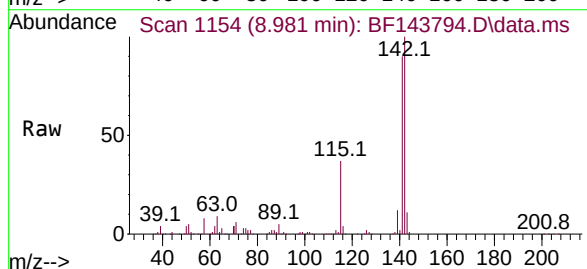
Manual Integrations  
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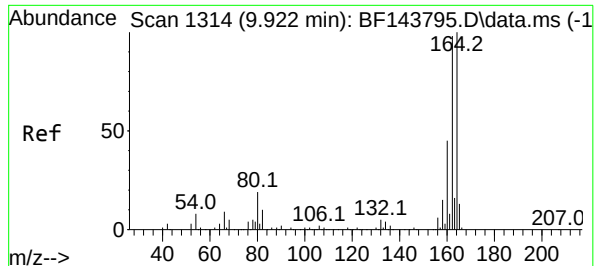
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#38  
1-Methylnaphthalene  
Concen: 20.889 ng  
RT: 8.981 min Scan# 1154  
Delta R.T. 0.000 min  
Lab File: BF143794.D  
Acq: 23 Sep 2025 12:27

Tgt Ion:142 Resp: 272276  
Ion Ratio Lower Upper  
142 100  
141 89.9 71.1 106.7





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.922 min Scan# 1314

Delta R.T. -0.006 min

Lab File: BF143794.D

Acq: 23 Sep 2025 12:27

Instrument :

BNA\_F

ClientSampleId :

SSTDICC020

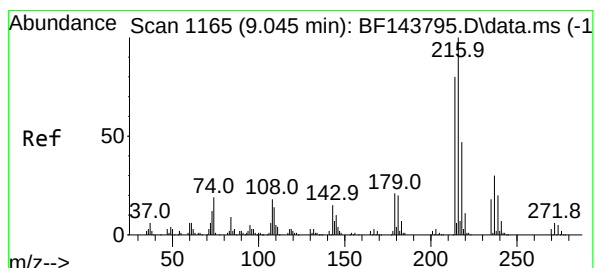
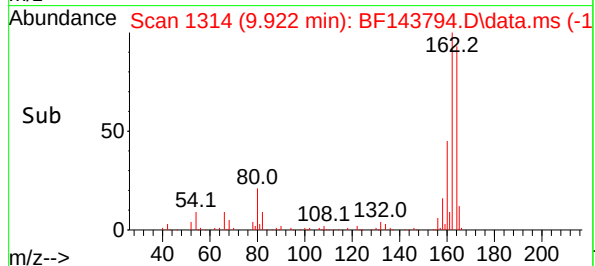
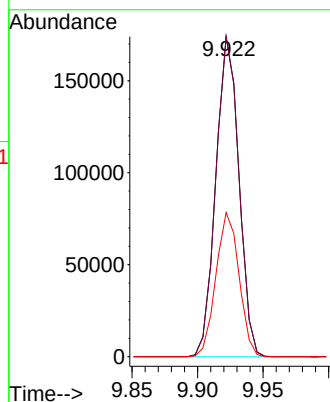
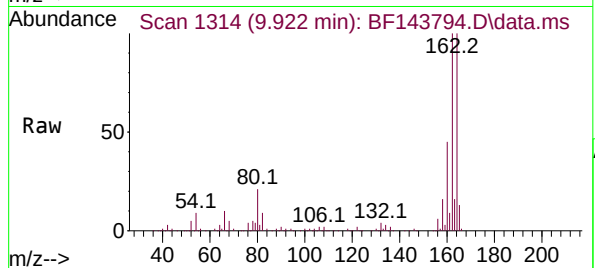
| Tgt Ion:  | 164   | Resp: | 213356 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 164       | 100   |       |        |
| 162       | 99.9  | 78.8  | 118.2  |
| 160       | 45.0  | 35.8  | 53.6   |

Manual Integrations

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Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#40

1,2,4,5-Tetrachlorobenzene

Concen: 21.074 ng

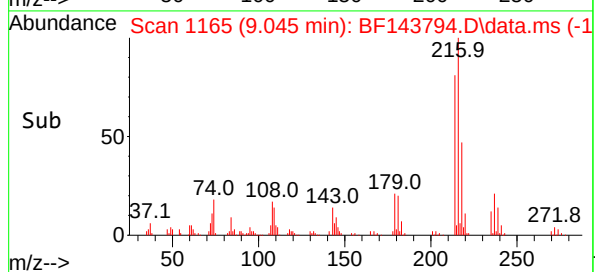
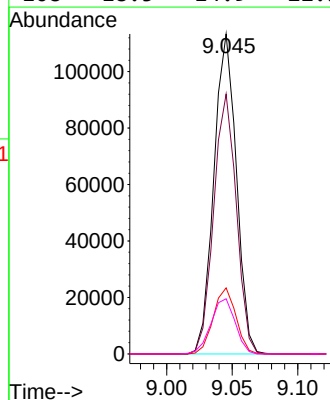
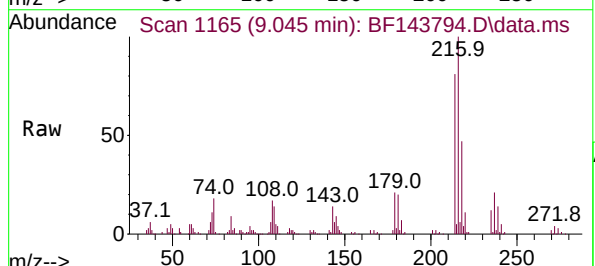
RT: 9.045 min Scan# 1165

Delta R.T. -0.006 min

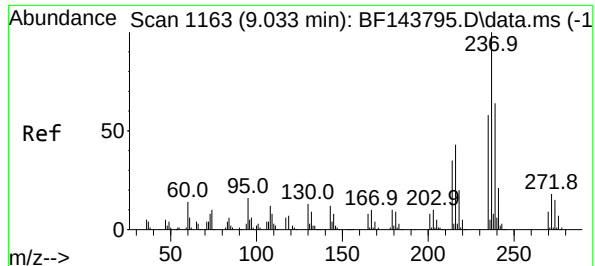
Lab File: BF143794.D

Acq: 23 Sep 2025 12:27

| Tgt Ion:  | 216   | Resp: | 135689 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 216       | 100   |       |        |
| 214       | 81.5  | 63.7  | 95.5   |
| 179       | 20.7  | 16.5  | 24.7   |
| 108       | 18.5  | 14.9  | 22.3   |

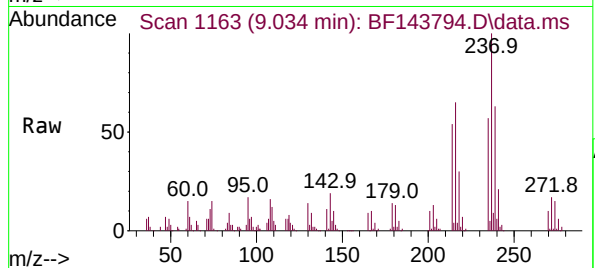






#41  
Hexachlorocyclopentadiene  
Concen: 19.382 ng  
RT: 9.034 min Scan# 1163  
Delta R.T. -0.006 min  
Lab File: BF143794.D  
Acq: 23 Sep 2025 12:27

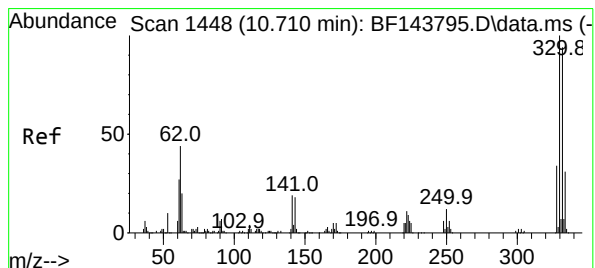
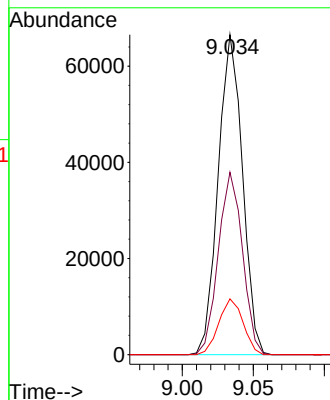
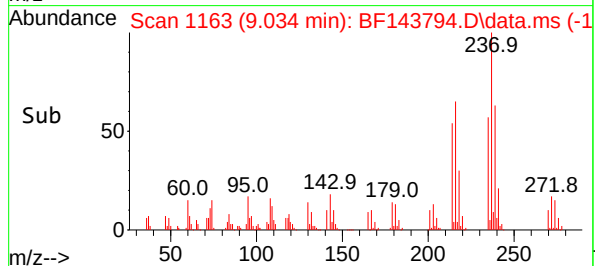
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC020



Tgt Ion: 237 Resp: 79092  
Ion Ratio Lower Upper  
237 100  
235 57.0 38.1 78.1  
272 17.4 0.0 37.9

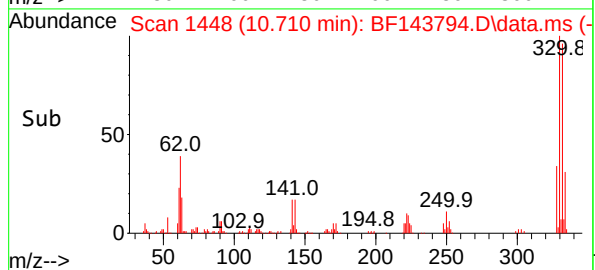
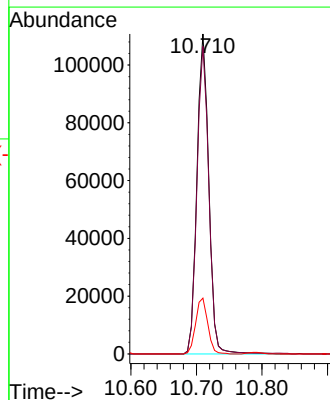
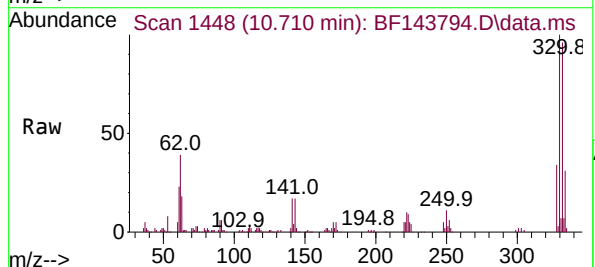
Manual Integrations  
APPROVED

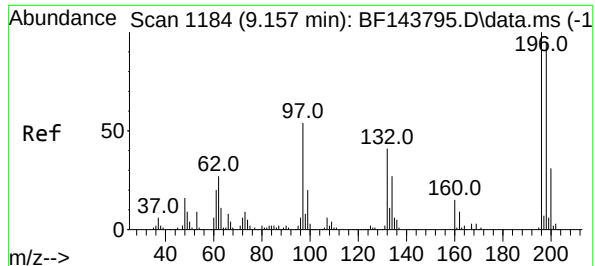
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#42  
2,4,6-Tribromophenol  
Concen: 45.426 ng  
RT: 10.710 min Scan# 1448  
Delta R.T. -0.006 min  
Lab File: BF143794.D  
Acq: 23 Sep 2025 12:27

Tgt Ion: 330 Resp: 138317  
Ion Ratio Lower Upper  
330 100  
332 96.5 74.7 112.1  
141 17.7 14.3 21.5





#43

2,4,6-Trichlorophenol

Concen: 20.423 ng

RT: 9.151 min Scan# 1183

Delta R.T. -0.006 min

Lab File: BF143794.D

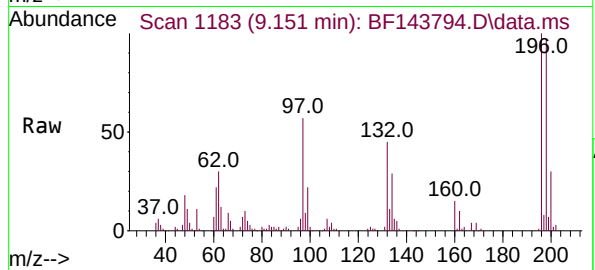
Acq: 23 Sep 2025 12:27

Instrument :

BNA\_F

ClientSampleId :

SSTDICC020



Tgt Ion:196 Resp: 8234

Ion Ratio Lower Upper

196 100

198 96.8 76.2 114.2

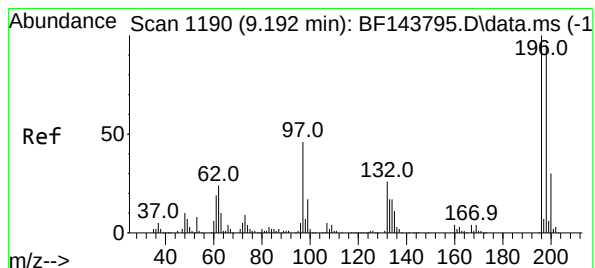
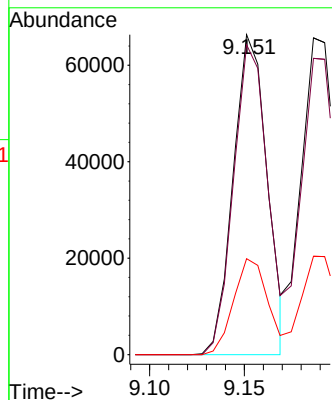
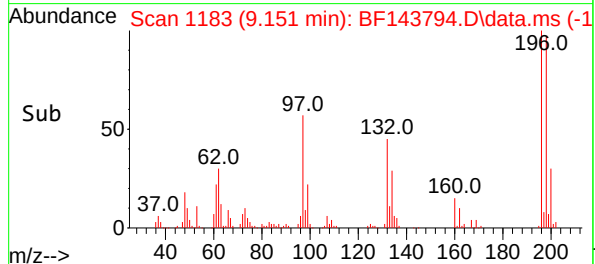
200 30.0 24.7 37.1

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Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#44

2,4,5-Trichlorophenol

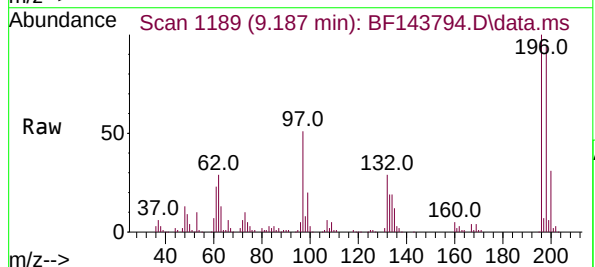
Concen: 21.213 ng

RT: 9.187 min Scan# 1189

Delta R.T. -0.006 min

Lab File: BF143794.D

Acq: 23 Sep 2025 12:27



Tgt Ion:196 Resp: 89458

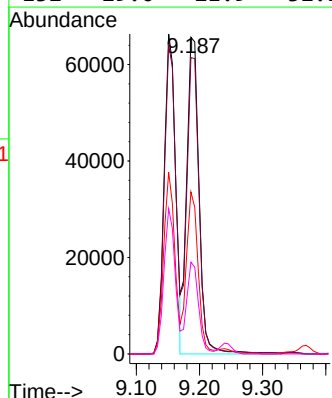
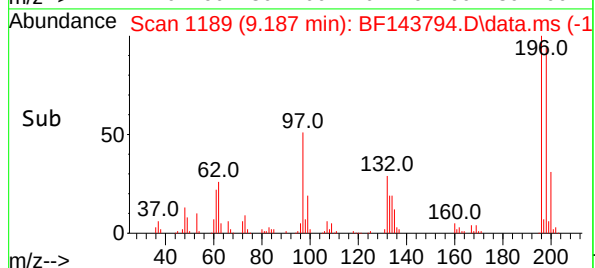
Ion Ratio Lower Upper

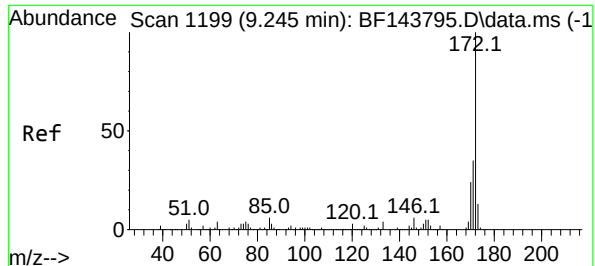
196 100

198 93.5 75.9 113.9

97 51.2 38.3 57.5

132 29.0 21.9 32.9





#45

2-Fluorobiphenyl

Concen: 43.140 ng

RT: 9.239 min Scan# 1199

Delta R.T. -0.006 min

Lab File: BF143794.D

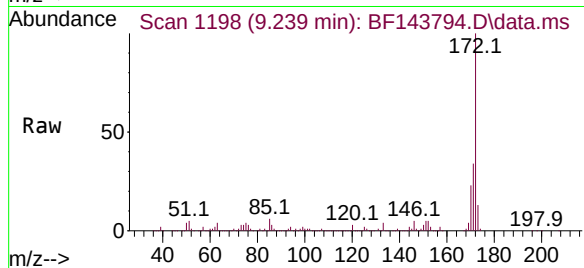
Acq: 23 Sep 2025 12:27

Instrument :

BNA\_F

ClientSampleId :

SSTDICC020



Tgt Ion:172 Resp: 622849

Ion Ratio Lower Upper

172 100

171 33.7 27.9 41.9

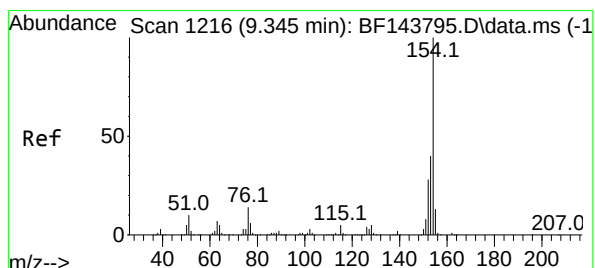
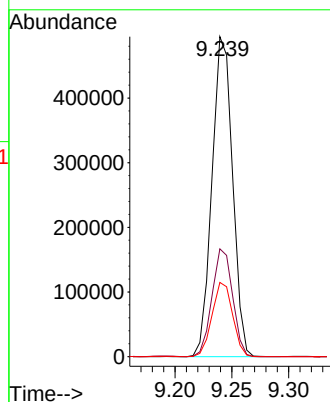
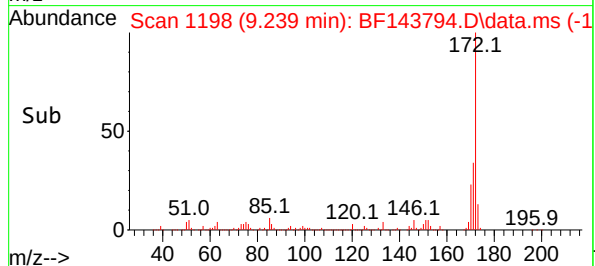
170 23.2 19.1 28.7

Manual Integrations

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Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#46

1,1'-Biphenyl

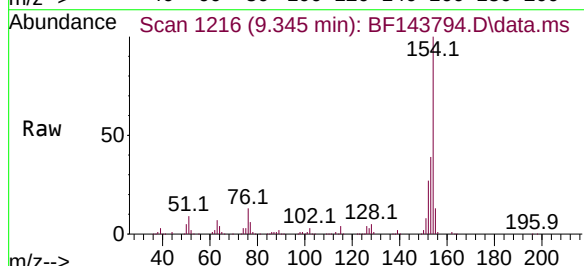
Concen: 21.610 ng

RT: 9.345 min Scan# 1216

Delta R.T. 0.000 min

Lab File: BF143794.D

Acq: 23 Sep 2025 12:27



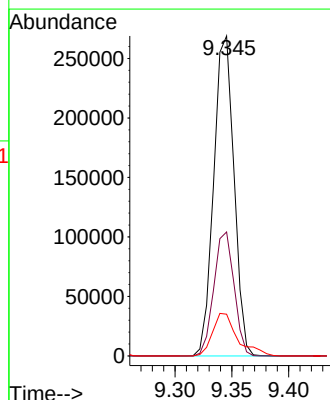
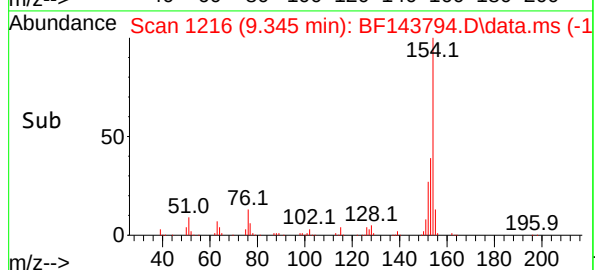
Tgt Ion:154 Resp: 333743

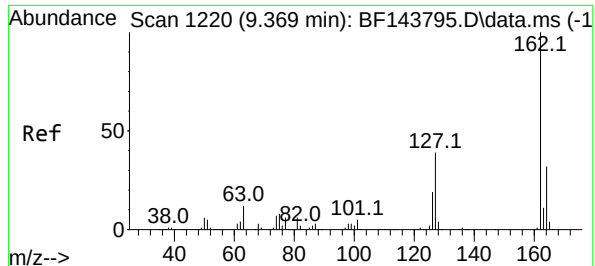
Ion Ratio Lower Upper

154 100

153 38.8 19.7 59.7

76 13.0 0.0 33.8





#47

2-Chloronaphthalene

Concen: 21.330 ng

RT: 9.369 min Scan# 1220

Delta R.T. -0.006 min

Lab File: BF143794.D

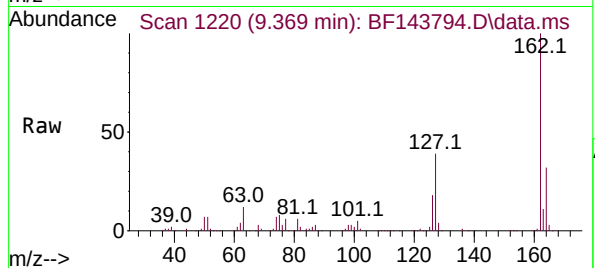
Acq: 23 Sep 2025 12:27

Instrument :

BNA\_F

ClientSampleId :

SSTDICC020



Tgt Ion:162 Resp: 265169

Ion Ratio Lower Upper

162 100

127 38.6 31.5 47.3

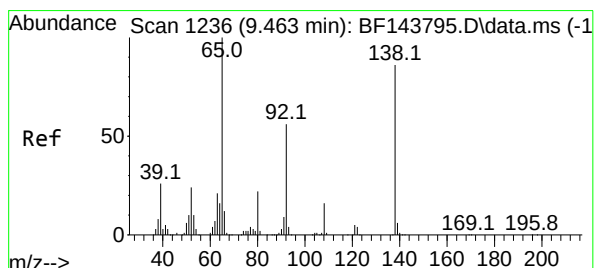
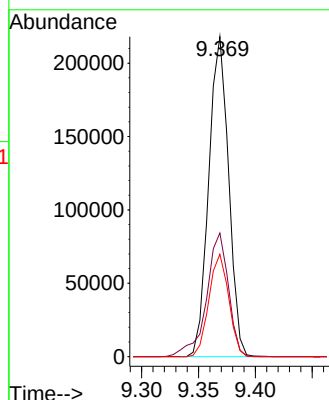
164 32.0 25.9 38.9

Manual Integrations

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Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#48

2-Nitroaniline

Concen: 20.157 ng

RT: 9.457 min Scan# 1235

Delta R.T. -0.006 min

Lab File: BF143794.D

Acq: 23 Sep 2025 12:27

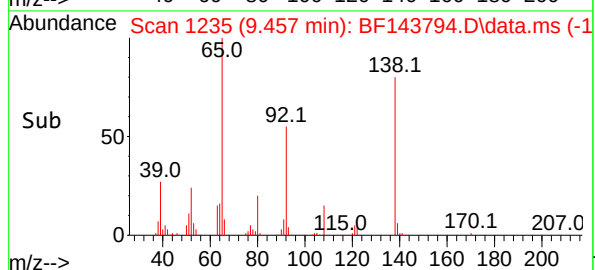
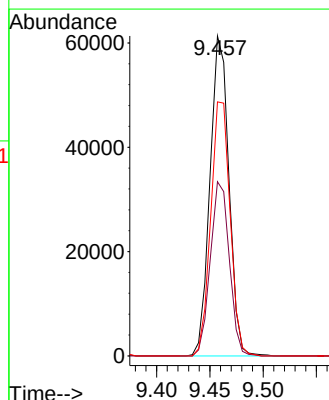
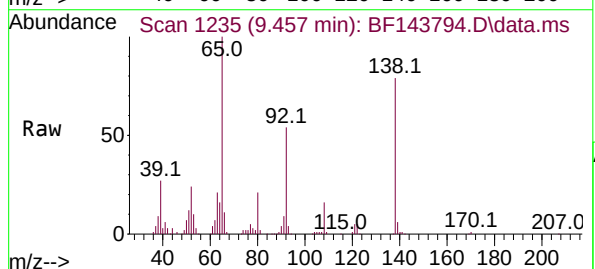
Tgt Ion: 65 Resp: 75737

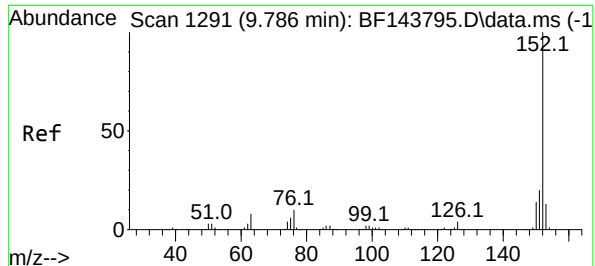
Ion Ratio Lower Upper

65 100

92 54.4 44.9 67.3

138 79.4 69.0 103.4





#49

Acenaphthylene

Concen: 21.195 ng

RT: 9.781 min Scan# 1290

Delta R.T. -0.006 min

Lab File: BF143794.D

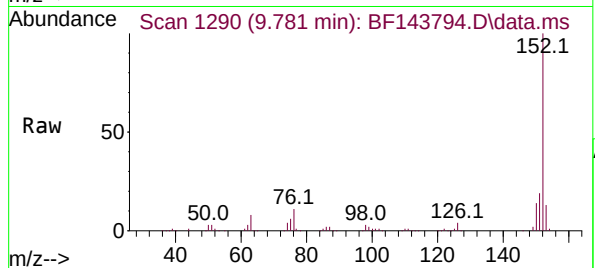
Acq: 23 Sep 2025 12:27

Instrument :

BNA\_F

ClientSampleId :

SSTDICC020



Tgt Ion:152 Resp: 362739

Ion Ratio Lower Upper

152 100

151 19.3 15.7 23.5

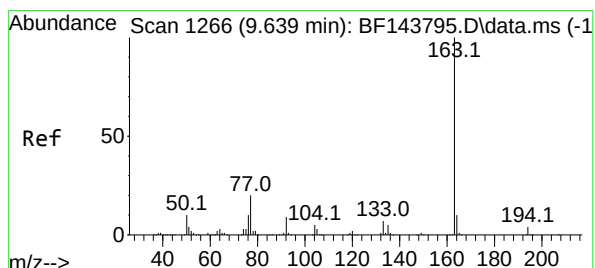
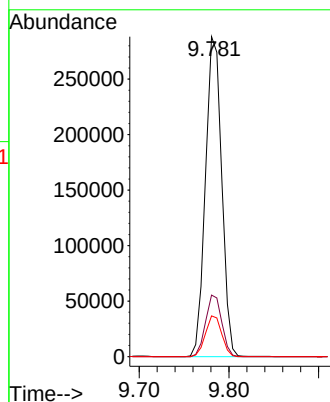
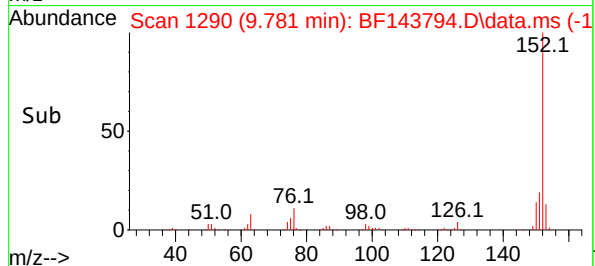
153 12.7 10.6 15.8

Manual Integrations

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Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#50

Dimethylphthalate

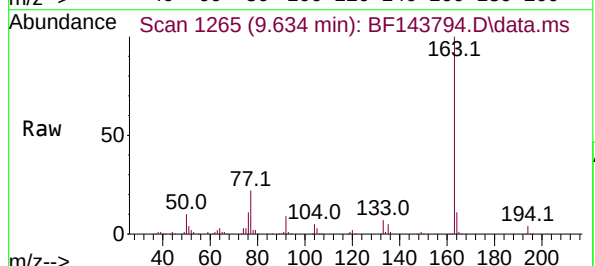
Concen: 20.548 ng

RT: 9.634 min Scan# 1265

Delta R.T. -0.006 min

Lab File: BF143794.D

Acq: 23 Sep 2025 12:27



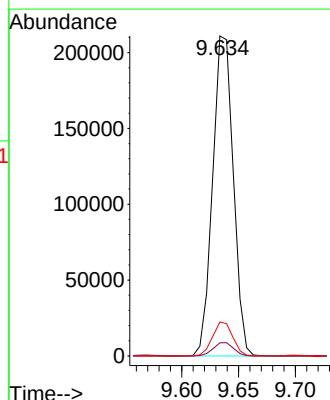
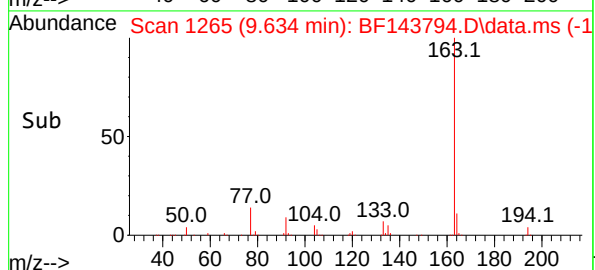
Tgt Ion:163 Resp: 267211

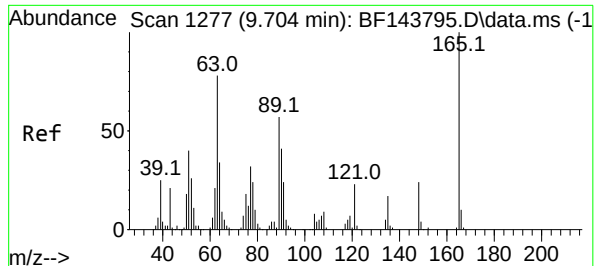
Ion Ratio Lower Upper

163 100

194 4.1 3.0 4.6

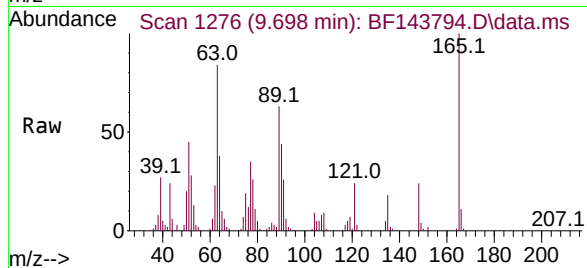
164 10.6 8.2 12.2





#51  
2,6-Dinitrotoluene  
Concen: 19.794 ng  
RT: 9.698 min Scan# 1277  
Delta R.T. -0.006 min  
Lab File: BF143794.D  
Acq: 23 Sep 2025 12:27

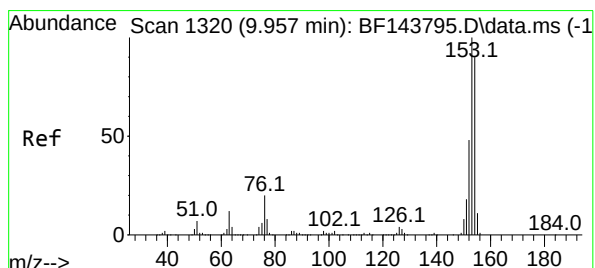
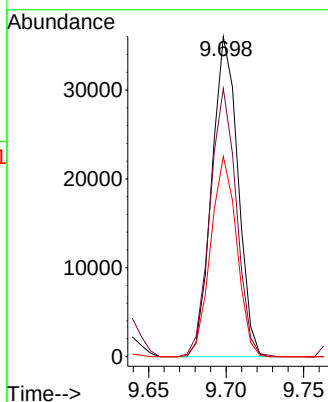
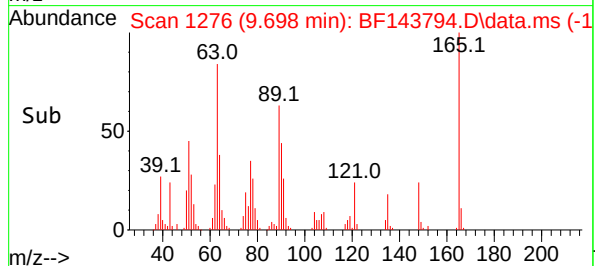
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC020



Tgt Ion:165 Resp: 42291  
Ion Ratio Lower Upper  
165 100  
63 83.8 62.6 94.0  
89 62.6 45.2 67.8

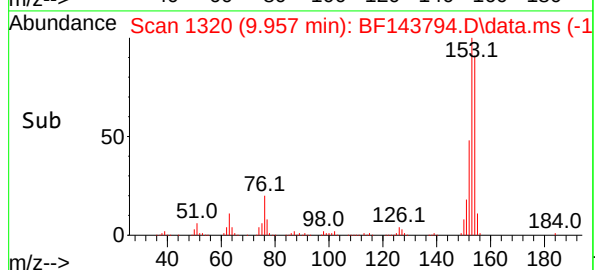
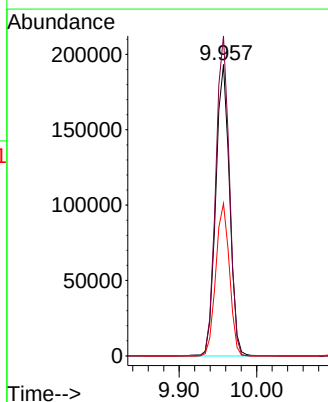
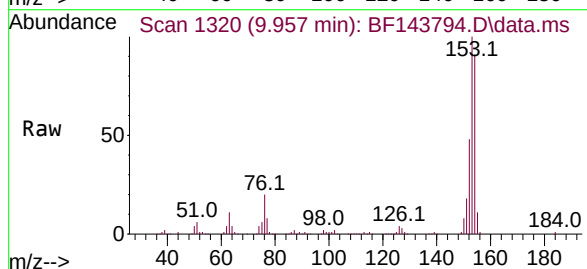
Manual Integrations  
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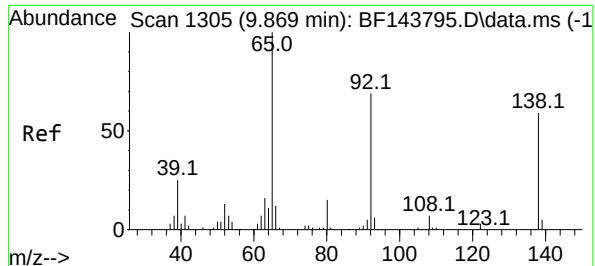
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#52  
Acenaphthene  
Concen: 21.268 ng  
RT: 9.957 min Scan# 1320  
Delta R.T. -0.006 min  
Lab File: BF143794.D  
Acq: 23 Sep 2025 12:27

Tgt Ion:154 Resp: 239533  
Ion Ratio Lower Upper  
154 100  
153 109.8 88.7 133.1  
152 52.3 42.7 64.1





#53

3-Nitroaniline

Concen: 20.150 ng

RT: 9.869 min Scan# 1305

Delta R.T. -0.006 min

Lab File: BF143794.D

Acq: 23 Sep 2025 12:27

Instrument :

BNA\_F

ClientSampleId :

SSTDICC020

Tgt Ion:138 Resp: 52183

Ion Ratio Lower Upper

138 100

108 14.8 9.9 14.9

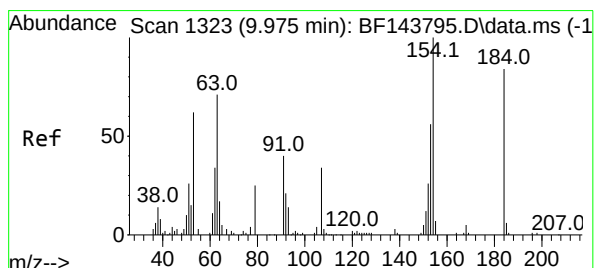
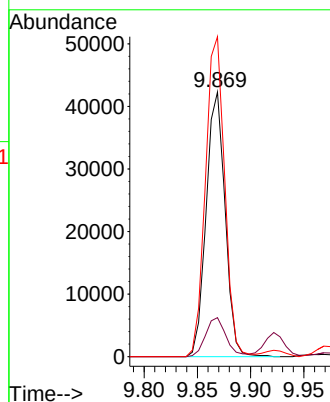
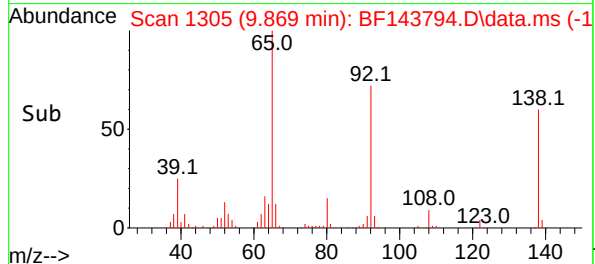
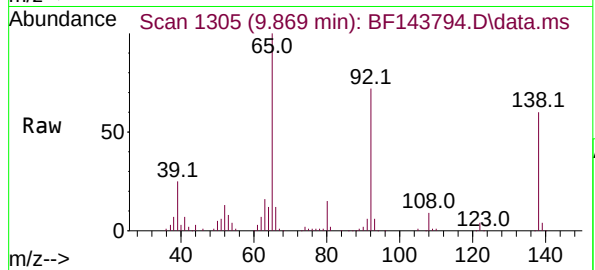
92 121.0 93.5 140.3

Manual Integrations

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Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#54

2,4-Dinitrophenol

Concen: 16.759 ng

RT: 9.969 min Scan# 1322

Delta R.T. -0.006 min

Lab File: BF143794.D

Acq: 23 Sep 2025 12:27

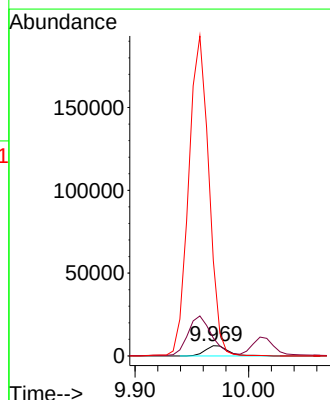
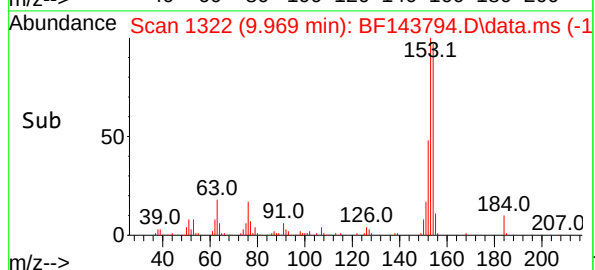
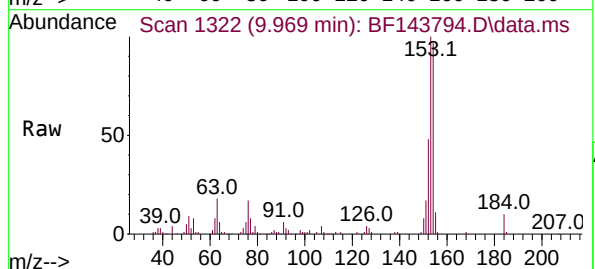
Tgt Ion:184 Resp: 8519

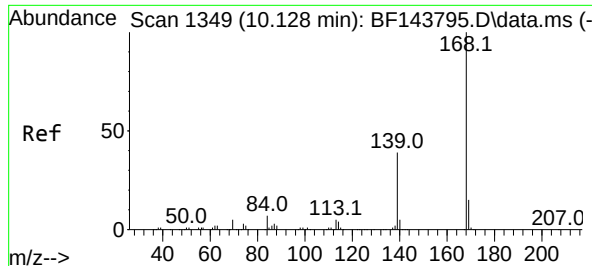
Ion Ratio Lower Upper

184 100

63 174.8 84.6 127.0#

154 930.3 199.3 298.9#





#55

Dibenzenofuran

Concen: 21.305 ng

RT: 10.128 min Scan# 1349

Delta R.T. -0.006 min

Lab File: BF143794.D

Acq: 23 Sep 2025 12:27

Instrument :

BNA\_F

ClientSampleId :

SSTDICC020

Tgt Ion:168 Resp: 339308

Ion Ratio Lower Upper

168 100

139 38.2 31.0 46.6

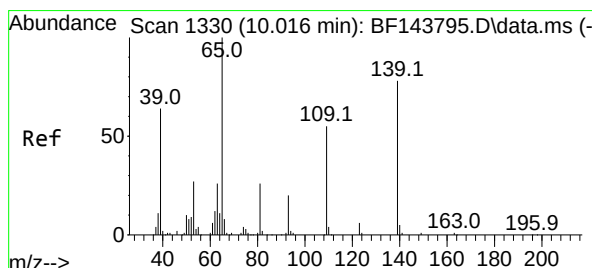
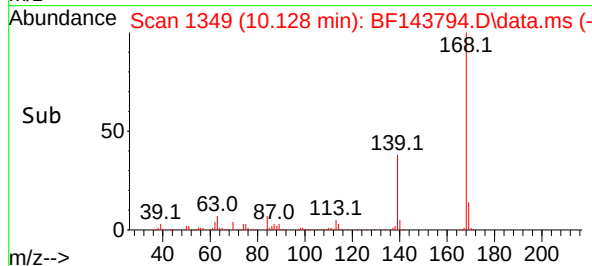
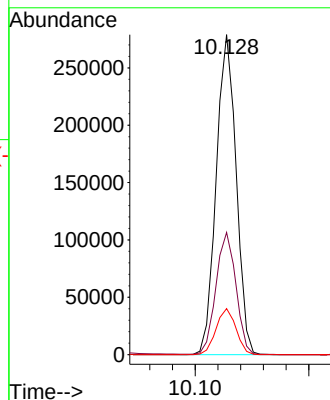
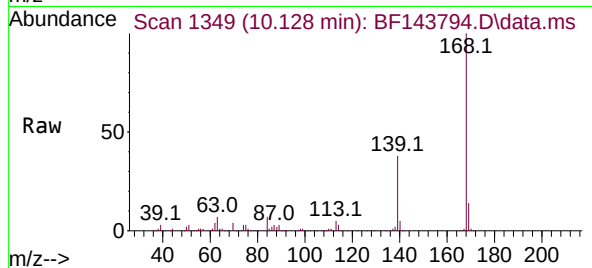
169 14.4 11.9 17.9

Manual Integrations

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Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#56

4-Nitrophenol

Concen: 17.322 ng

RT: 10.016 min Scan# 1330

Delta R.T. -0.006 min

Lab File: BF143794.D

Acq: 23 Sep 2025 12:27

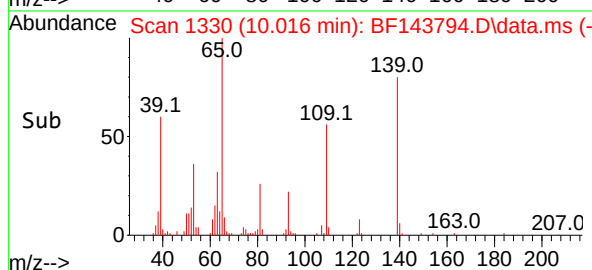
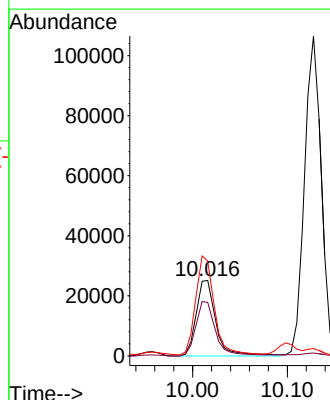
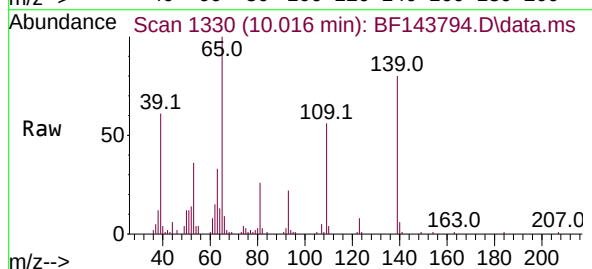
Tgt Ion:139 Resp: 36150

Ion Ratio Lower Upper

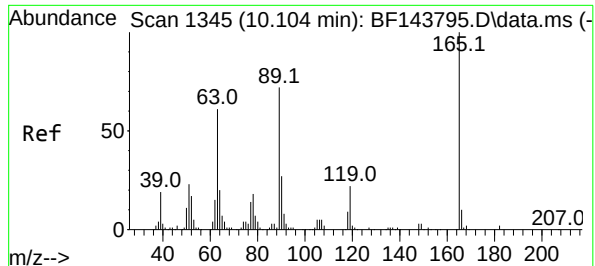
139 100

109 70.9 50.2 90.2

65 125.7 109.2 149.2

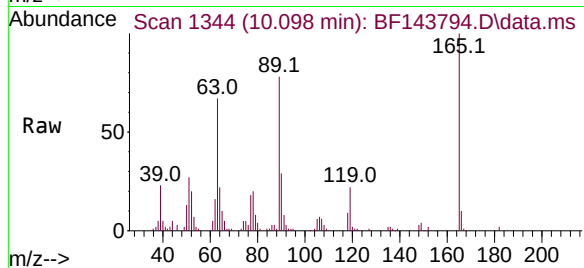






#57  
2,4-Dinitrotoluene  
Concen: 18.952 ng  
RT: 10.098 min Scan# 1345  
Delta R.T. -0.012 min  
Lab File: BF143794.D  
Acq: 23 Sep 2025 12:27

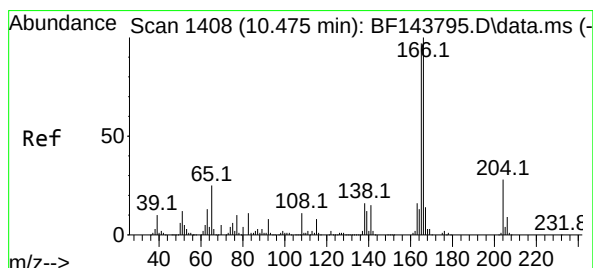
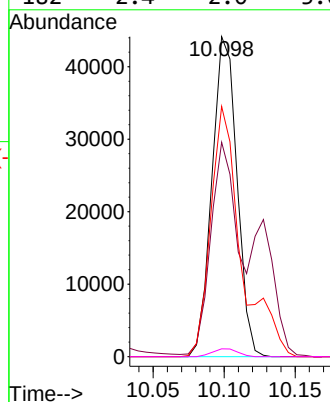
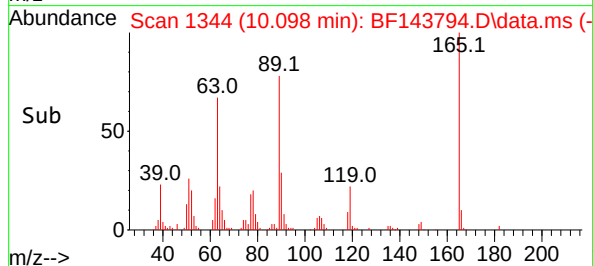
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC020



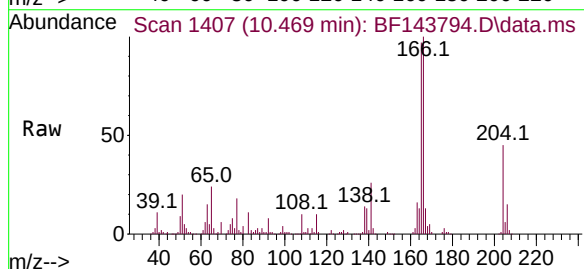
Tgt Ion:165 Resp: 5413  
Ion Ratio Lower Upper  
165 100  
63 67.0 48.9 73.3  
89 78.2 57.5 86.3  
182 2.4 2.0 3.0

Manual Integrations  
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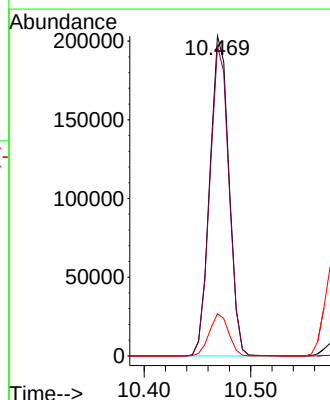
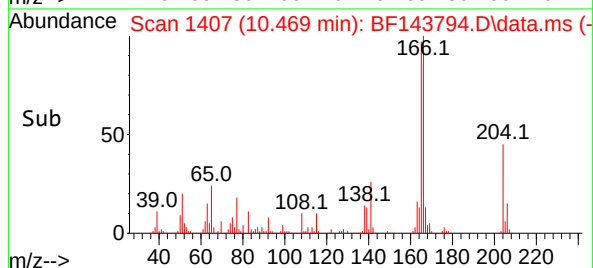
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025

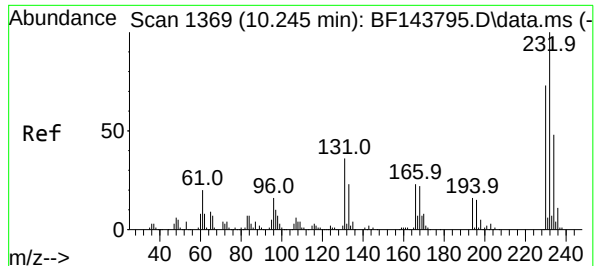


#58  
Fluorene  
Concen: 21.445 ng  
RT: 10.469 min Scan# 1407  
Delta R.T. -0.006 min  
Lab File: BF143794.D  
Acq: 23 Sep 2025 12:27



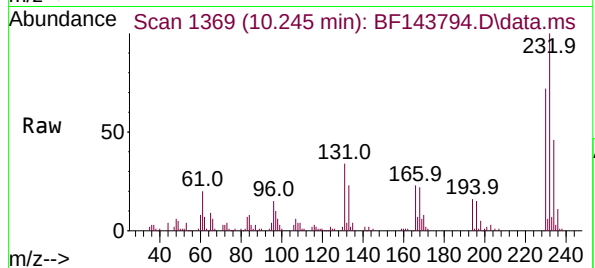
Tgt Ion:166 Resp: 253897  
Ion Ratio Lower Upper  
166 100  
165 96.8 78.0 117.0  
167 13.2 10.9 16.3





#59  
2,3,4,6-Tetrachlorophenol  
Concen: 20.618 ng  
RT: 10.245 min Scan# 1369  
Delta R.T. 0.000 min  
Lab File: BF143794.D  
Acq: 23 Sep 2025 12:27

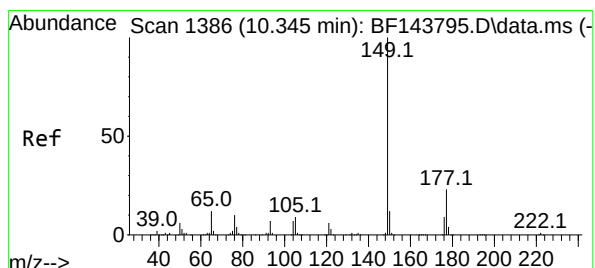
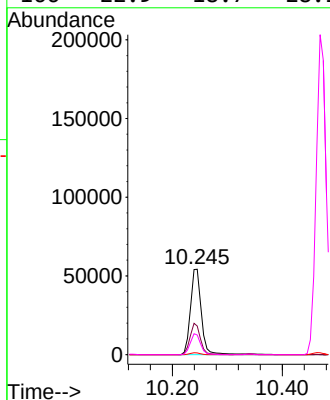
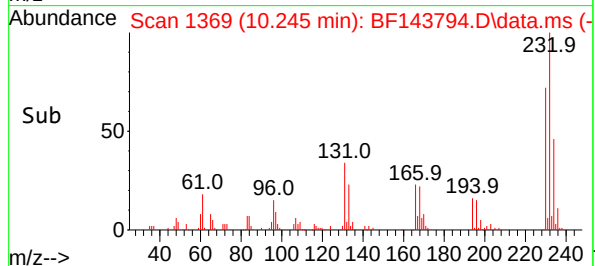
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC020



Tgt Ion:232 Resp: 74485  
Ion Ratio Lower Upper  
232 100  
131 34.9 29.4 44.2  
130 1.9 1.3 1.9  
166 22.9 18.7 28.1

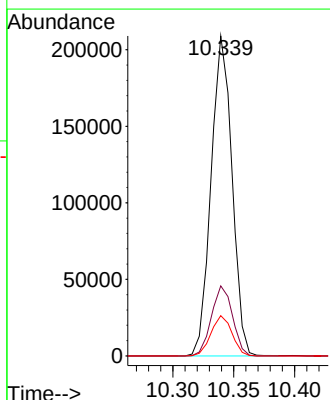
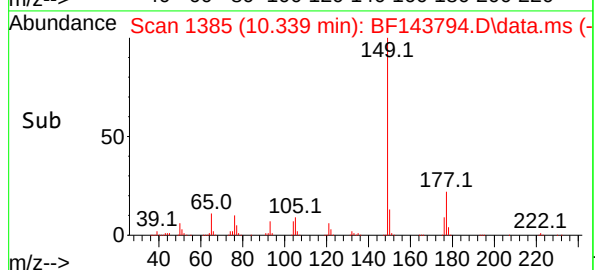
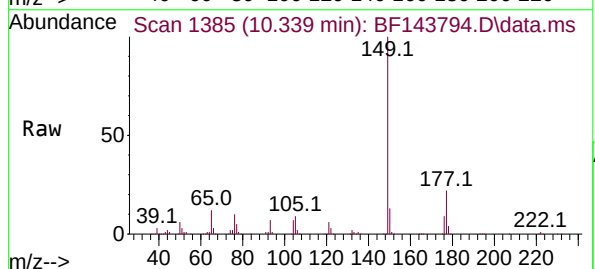
Manual Integrations  
APPROVED

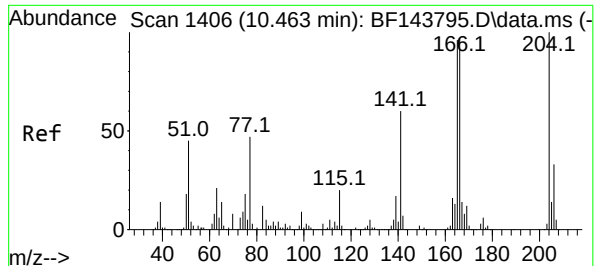
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#60  
Diethylphthalate  
Concen: 20.575 ng  
RT: 10.339 min Scan# 1385  
Delta R.T. -0.006 min  
Lab File: BF143794.D  
Acq: 23 Sep 2025 12:27

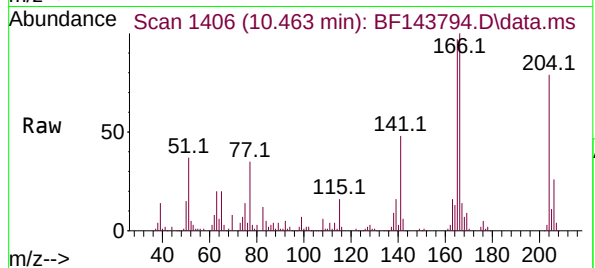
Tgt Ion:149 Resp: 250459  
Ion Ratio Lower Upper  
149 100  
177 21.9 18.1 27.1  
150 12.6 9.7 14.5





#61  
4-Chlorophenyl-phenylether  
Concen: 21.242 ng  
RT: 10.463 min Scan# 1406  
Delta R.T. -0.006 min  
Lab File: BF143794.D  
Acq: 23 Sep 2025 12:27

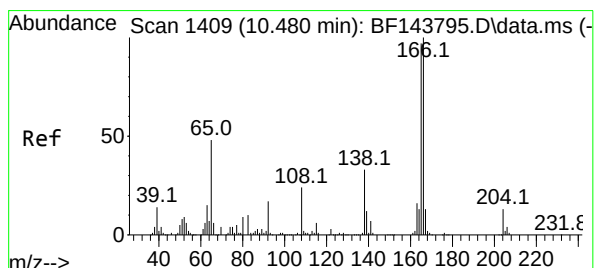
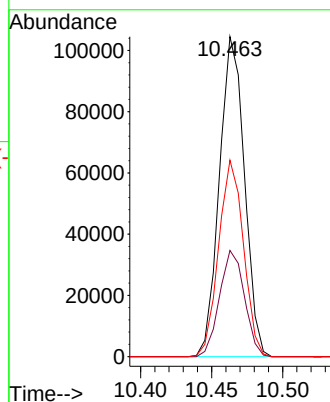
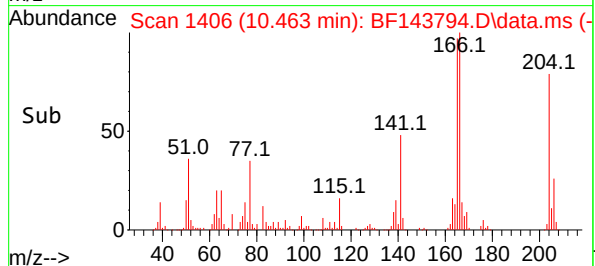
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC020



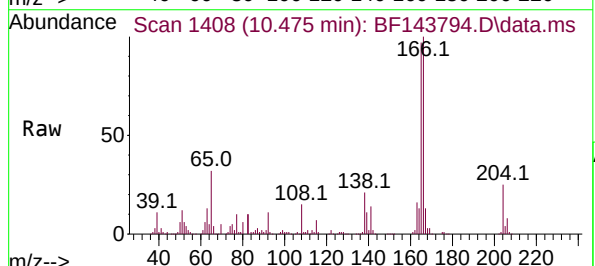
Tgt Ion:204 Resp: 128143  
Ion Ratio Lower Upper  
204 100  
206 33.2 26.7 40.1  
141 61.4 48.2 72.2

Manual Integrations  
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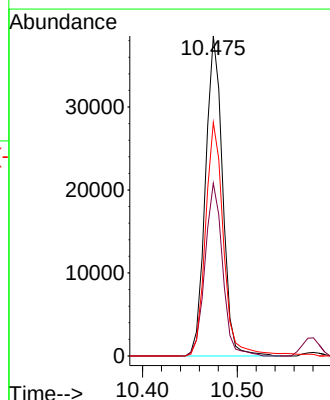
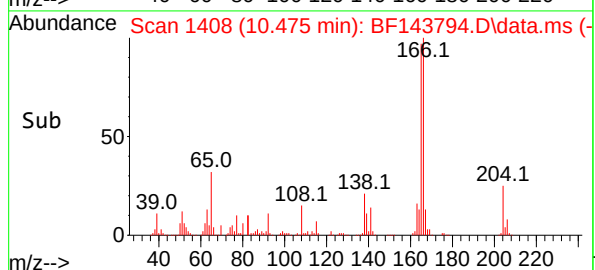
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025

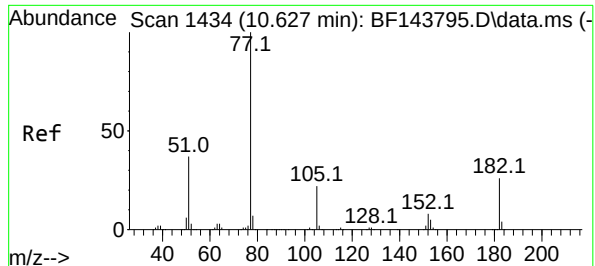


#62  
4-Nitroaniline  
Concen: 19.941 ng  
RT: 10.475 min Scan# 1408  
Delta R.T. -0.018 min  
Lab File: BF143794.D  
Acq: 23 Sep 2025 12:27



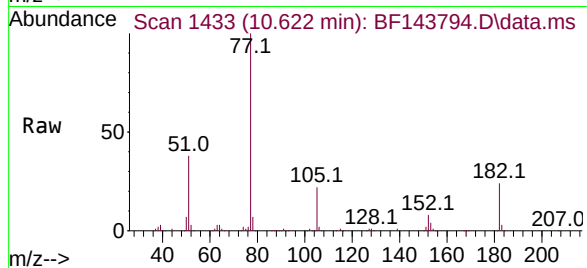
Tgt Ion:138 Resp: 48558  
Ion Ratio Lower Upper  
138 100  
92 54.0 31.5 71.5  
108 73.0 51.9 91.9





#63  
Azobenzene  
Concen: 20.720 ng  
RT: 10.622 min Scan# 1434  
Delta R.T. -0.006 min  
Lab File: BF143794.D  
Acq: 23 Sep 2025 12:27

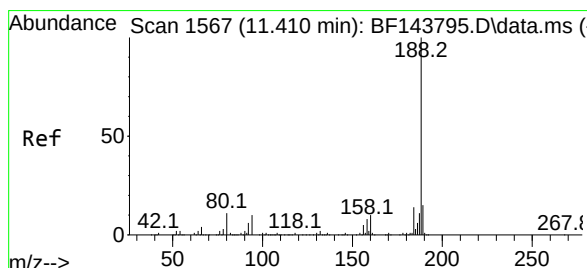
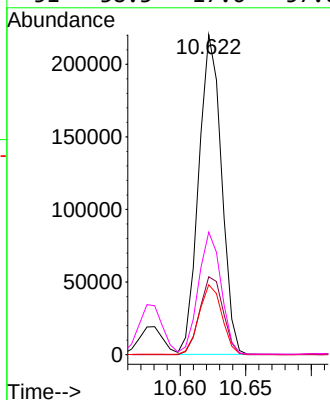
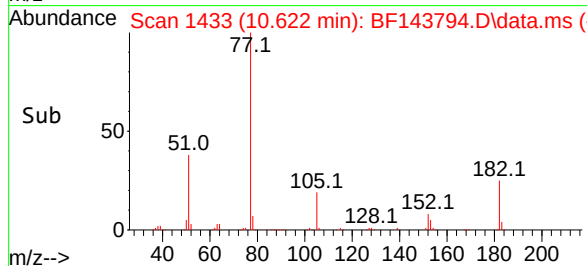
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC020



Tgt Ion: 77 Resp: 265823  
Ion Ratio Lower Upper  
77 100  
182 24.3 5.9 45.9  
105 21.8 2.3 42.3  
51 38.3 17.6 57.6

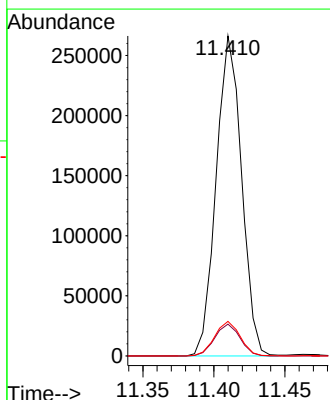
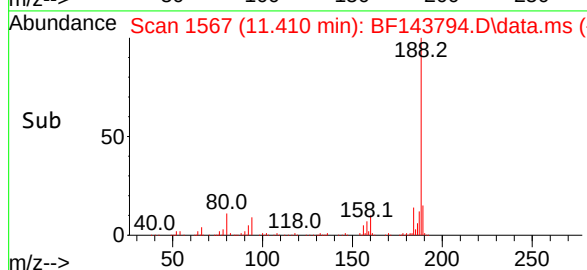
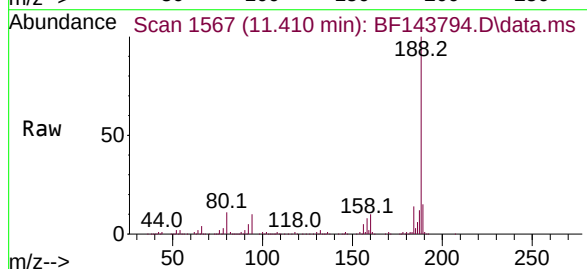
Manual Integrations  
APPROVED

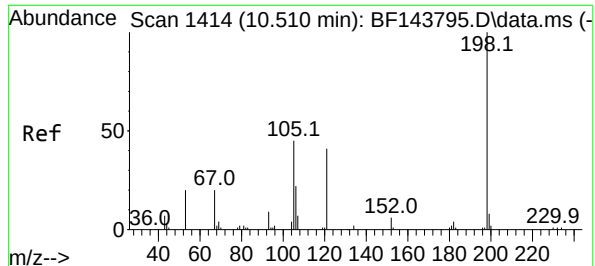
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.410 min Scan# 1567  
Delta R.T. -0.006 min  
Lab File: BF143794.D  
Acq: 23 Sep 2025 12:27

Tgt Ion:188 Resp: 331910  
Ion Ratio Lower Upper  
188 100  
94 9.9 8.2 12.2  
80 10.8 8.6 12.8





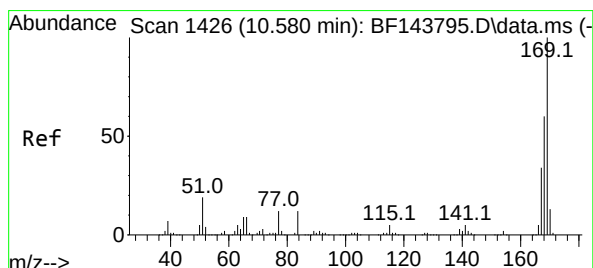
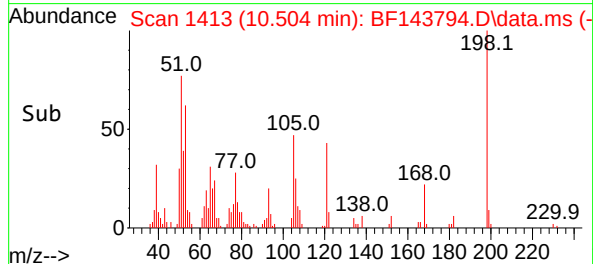
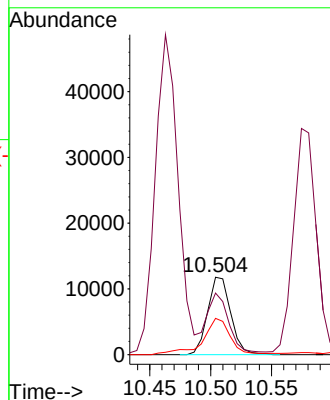
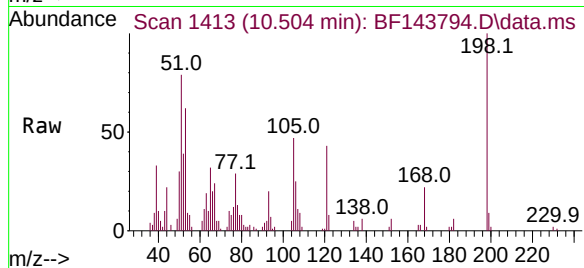
#65  
4,6-Dinitro-2-methylphenol  
Concen: 17.632 ng  
RT: 10.504 min Scan# 1413  
Delta R.T. -0.012 min  
Lab File: BF143794.D  
Acq: 23 Sep 2025 12:27

Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC020

Tgt Ion:198 Resp: 15499  
Ion Ratio Lower Upper  
198 100  
51 79.4 52.0 92.0  
105 46.7 27.5 67.5

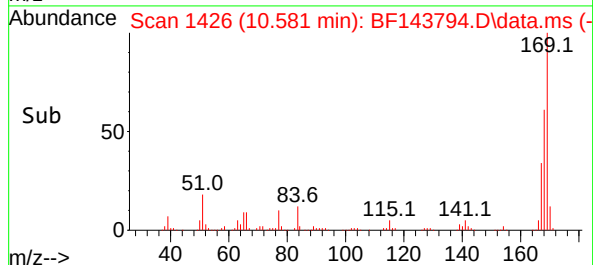
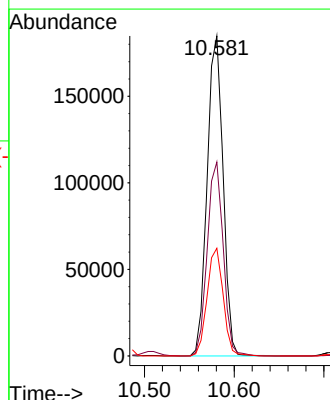
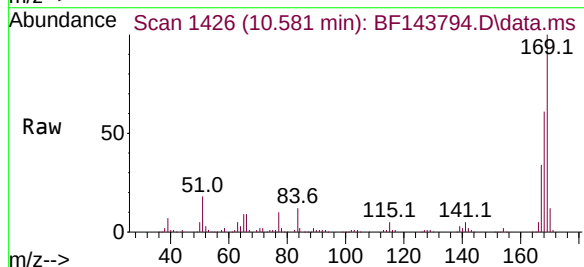
Manual Integrations  
APPROVED

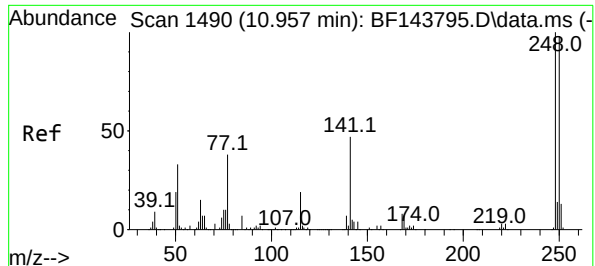
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#66  
n-Nitrosodiphenylamine  
Concen: 20.930 ng  
RT: 10.581 min Scan# 1426  
Delta R.T. -0.006 min  
Lab File: BF143794.D  
Acq: 23 Sep 2025 12:27

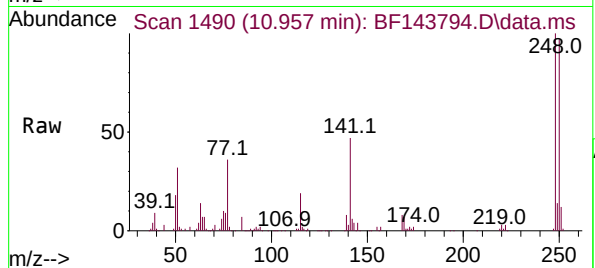
Tgt Ion:169 Resp: 228456  
Ion Ratio Lower Upper  
169 100  
168 60.6 47.9 71.9  
167 33.6 27.0 40.6





#67  
4-Bromophenyl-phenylether  
Concen: 20.464 ng  
RT: 10.957 min Scan# 1490  
Delta R.T. 0.000 min  
Lab File: BF143794.D  
Acq: 23 Sep 2025 12:27

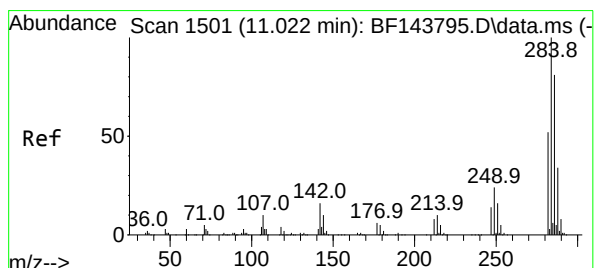
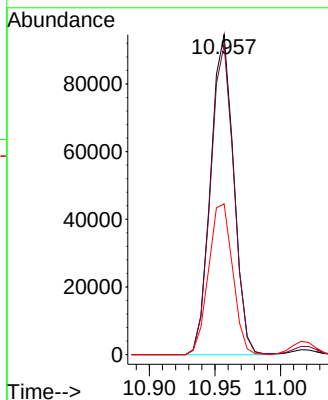
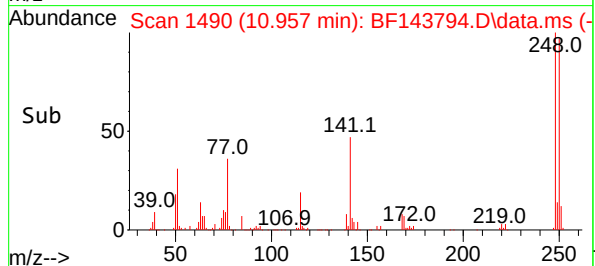
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC020



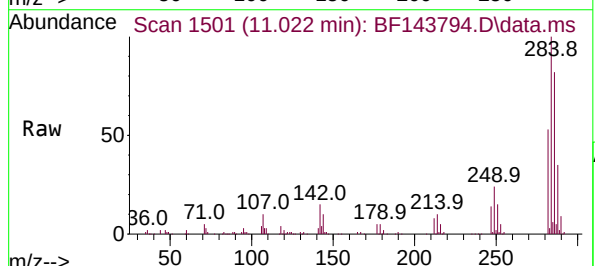
Tgt Ion:248 Resp: 115749  
Ion Ratio Lower Upper  
248 100  
250 96.9 78.7 118.1  
141 47.1 37.9 56.9

Manual Integrations  
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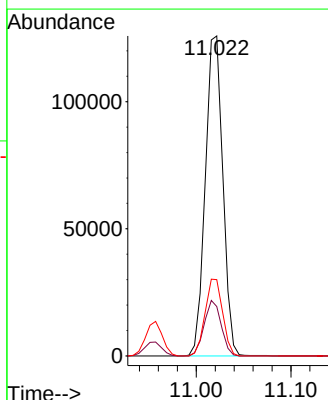
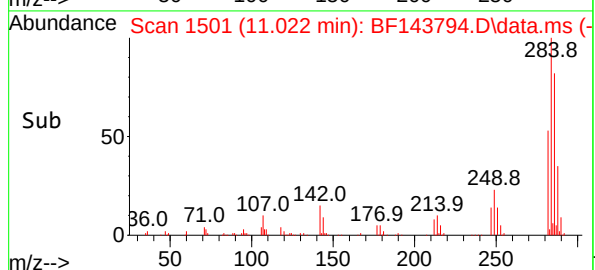
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025

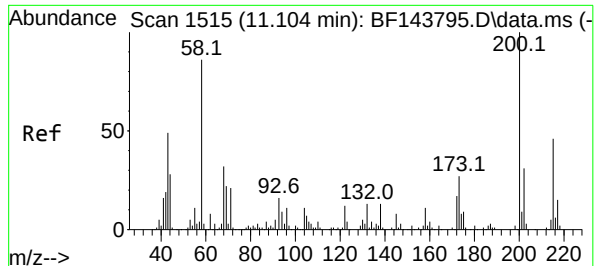


#68  
Hexachlorobenzene  
Concen: 20.797 ng  
RT: 11.022 min Scan# 1501  
Delta R.T. 0.000 min  
Lab File: BF143794.D  
Acq: 23 Sep 2025 12:27



Tgt Ion:284 Resp: 162113  
Ion Ratio Lower Upper  
284 100  
142 15.4 13.1 19.7  
249 23.8 19.5 29.3





#69

Atrazine

Concen: 20.747 ng

RT: 11.104 min Scan# 1515

Delta R.T. -0.006 min

Lab File: BF143794.D

Acq: 23 Sep 2025 12:27

Instrument :

BNA\_F

ClientSampleId :

SSTDICC020

Tgt Ion:200 Resp: 65580

Ion Ratio Lower Upper

200 100

173 27.1 7.2 47.2

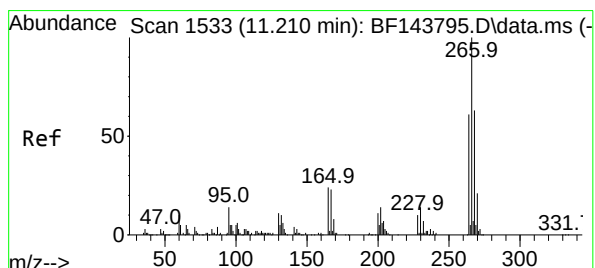
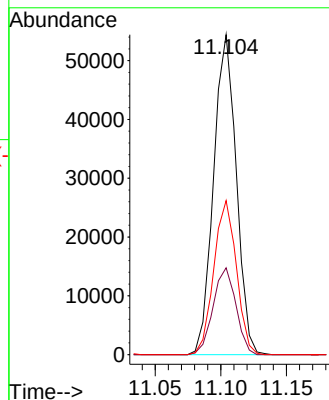
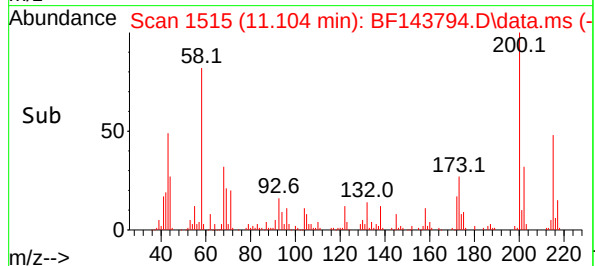
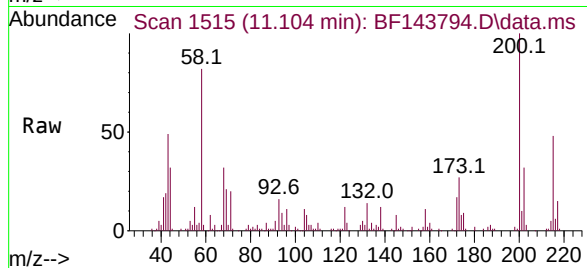
215 48.1 26.0 66.0

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#70

Pentachlorophenol

Concen: 18.449 ng

RT: 11.210 min Scan# 1533

Delta R.T. -0.006 min

Lab File: BF143794.D

Acq: 23 Sep 2025 12:27

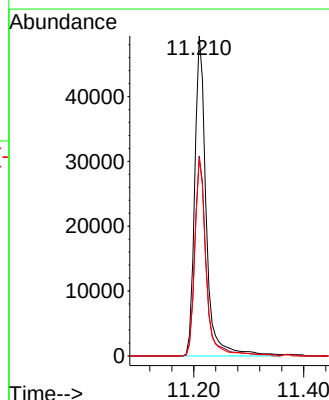
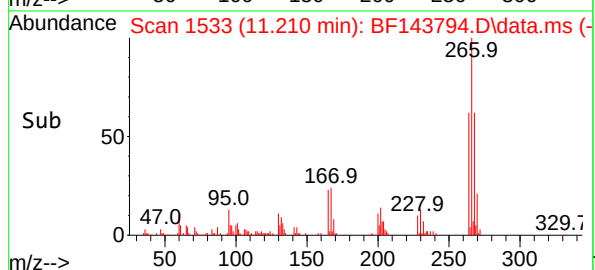
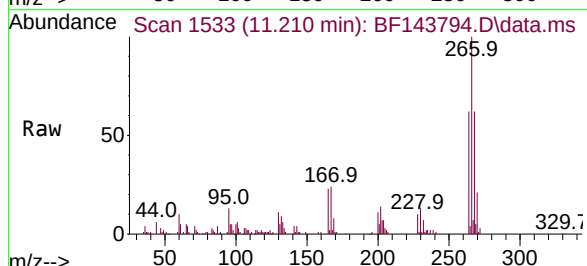
Tgt Ion:266 Resp: 71585

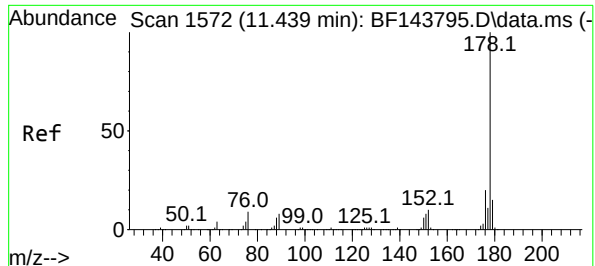
Ion Ratio Lower Upper

266 100

268 62.5 50.5 75.7

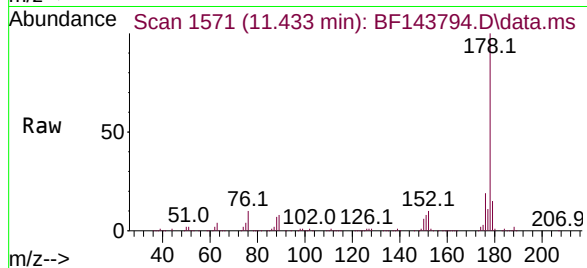
264 61.6 48.8 73.2





#71  
Phenanthrene  
Concen: 20.854 ng  
RT: 11.433 min Scan# 1572  
Delta R.T. -0.006 min  
Lab File: BF143794.D  
Acq: 23 Sep 2025 12:27

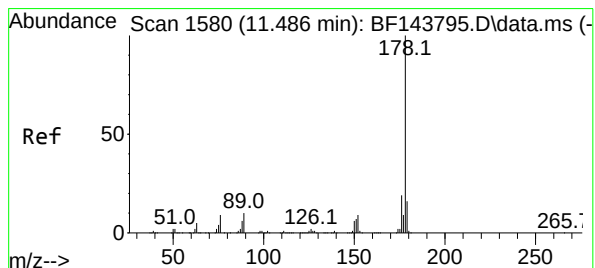
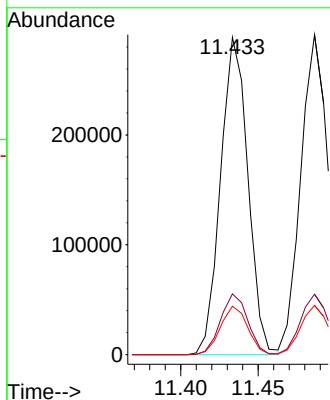
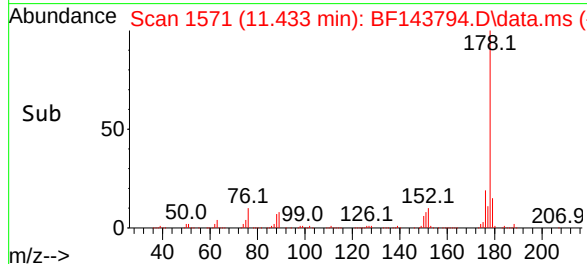
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC020



Tgt Ion:178 Resp: 355364  
Ion Ratio Lower Upper  
178 100  
176 19.1 15.6 23.4  
179 15.3 12.2 18.4

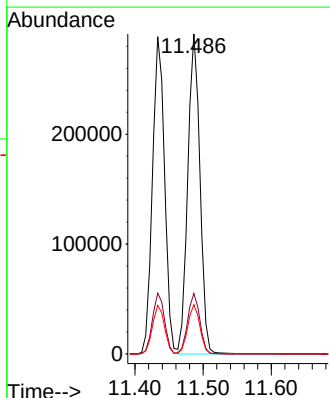
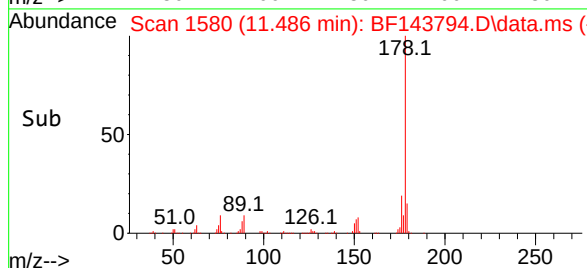
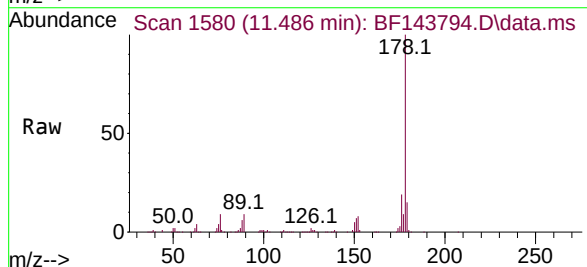
Manual Integrations  
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Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025

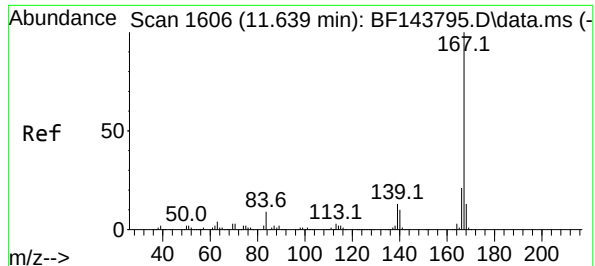


#72  
Anthracene  
Concen: 21.135 ng  
RT: 11.486 min Scan# 1580  
Delta R.T. -0.006 min  
Lab File: BF143794.D  
Acq: 23 Sep 2025 12:27

Tgt Ion:178 Resp: 361245  
Ion Ratio Lower Upper  
178 100  
176 18.9 15.3 22.9  
179 15.4 12.8 19.2

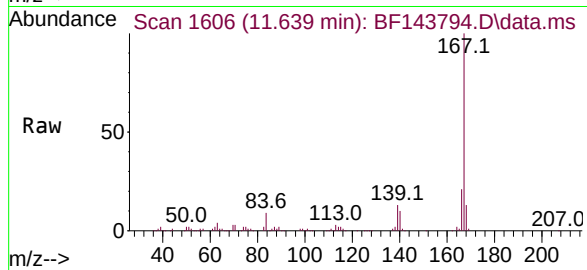






#73  
Carbazole  
Concen: 21.072 ng  
RT: 11.639 min Scan# 1606  
Delta R.T. -0.006 min  
Lab File: BF143794.D  
Acq: 23 Sep 2025 12:27

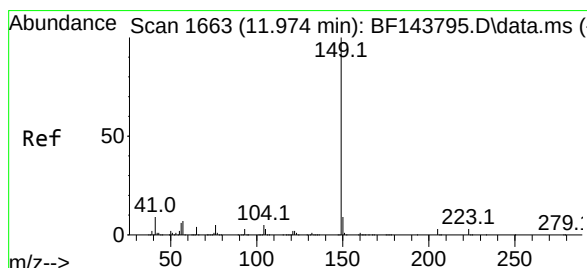
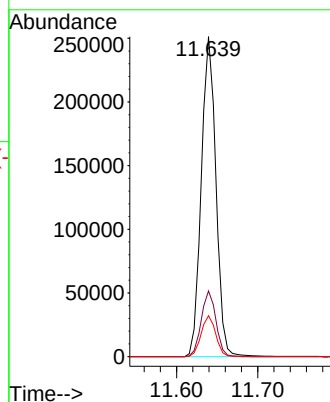
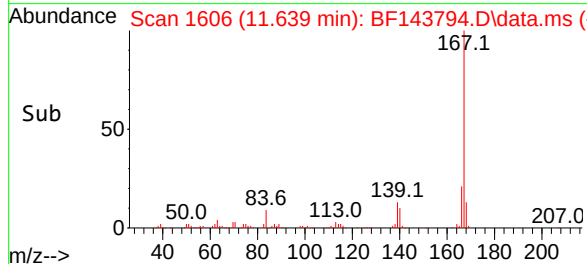
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC020



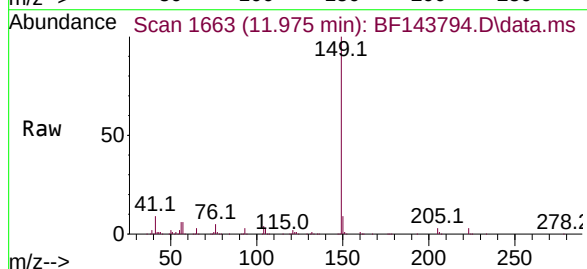
Tgt Ion:167 Resp: 314908  
Ion Ratio Lower Upper  
167 100  
166 20.5 17.0 25.4  
139 12.8 10.6 15.8

Manual Integrations  
APPROVED

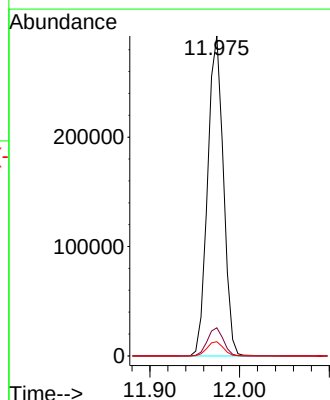
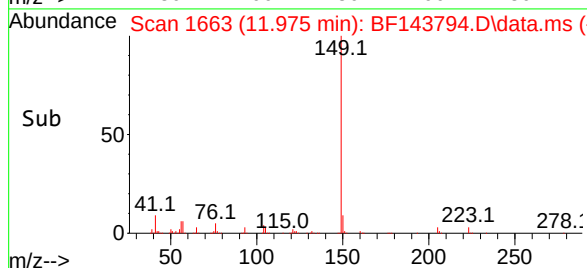
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025

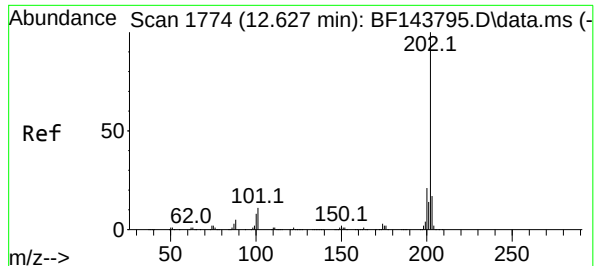


#74  
Di-n-butylphthalate  
Concen: 20.764 ng  
RT: 11.975 min Scan# 1663  
Delta R.T. 0.000 min  
Lab File: BF143794.D  
Acq: 23 Sep 2025 12:27



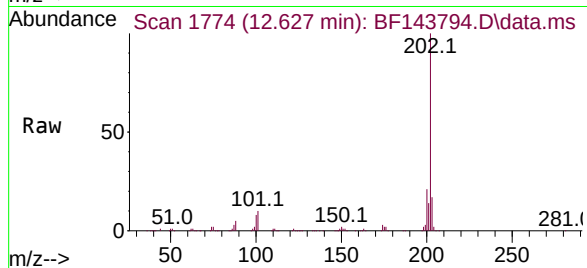
Tgt Ion:149 Resp: 356883  
Ion Ratio Lower Upper  
149 100  
150 8.8 7.3 10.9  
104 4.4 3.6 5.4





#75  
Fluoranthene  
Concen: 21.284 ng  
RT: 12.627 min Scan# 1774  
Delta R.T. 0.000 min  
Lab File: BF143794.D  
Acq: 23 Sep 2025 12:27

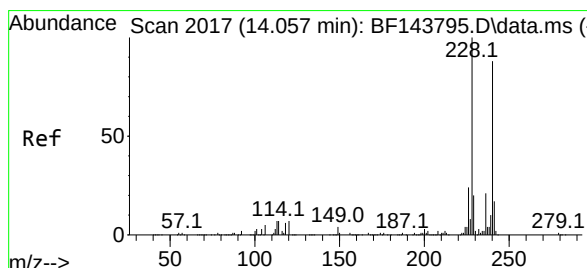
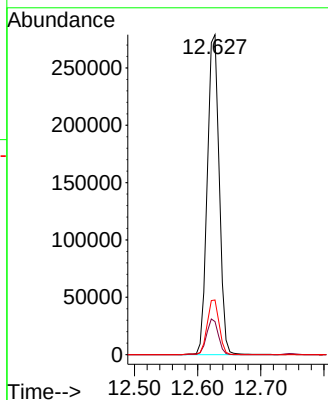
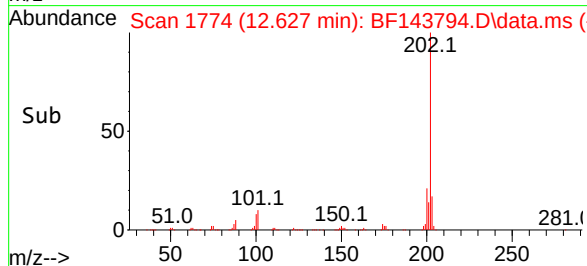
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC020



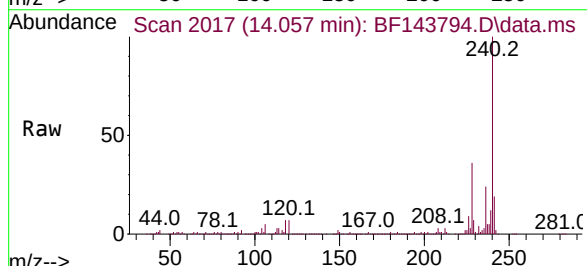
Tgt Ion:202 Resp: 364772  
Ion Ratio Lower Upper  
202 100  
101 10.3 0.0 31.1  
203 17.1 0.0 37.4

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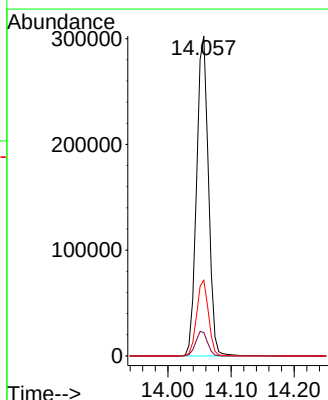
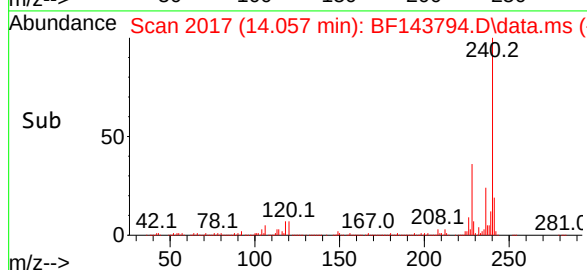
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025

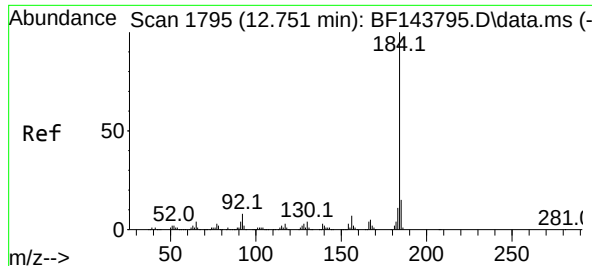


#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.057 min Scan# 1717  
Delta R.T. -0.006 min  
Lab File: BF143794.D  
Acq: 23 Sep 2025 12:27



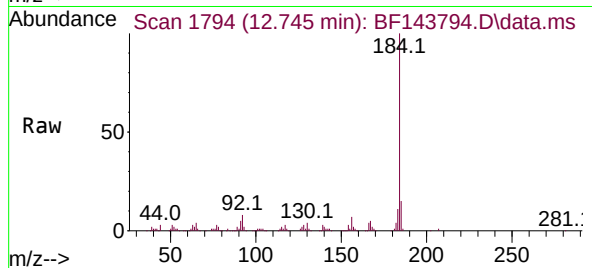
Tgt Ion:240 Resp: 394143  
Ion Ratio Lower Upper  
240 100  
120 7.3 6.2 9.4  
236 23.6 19.4 29.2





#77  
Benzidine  
Concen: 18.220 ng  
RT: 12.745 min Scan# 1794  
Delta R.T. -0.006 min  
Lab File: BF143794.D  
Acq: 23 Sep 2025 12:27

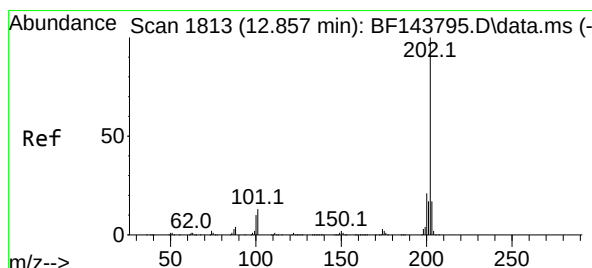
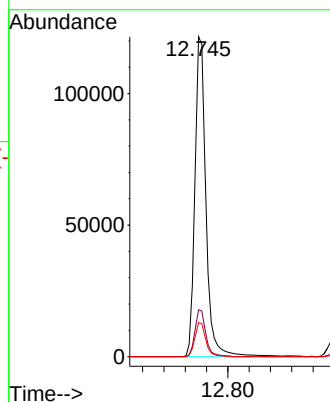
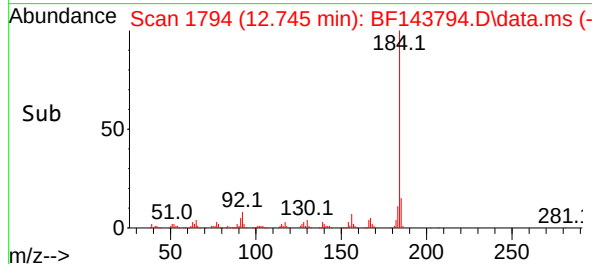
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC020



Tgt Ion:184 Resp: 174994  
Ion Ratio Lower Upper  
184 100  
185 14.6 11.6 17.4  
183 10.6 8.6 13.0

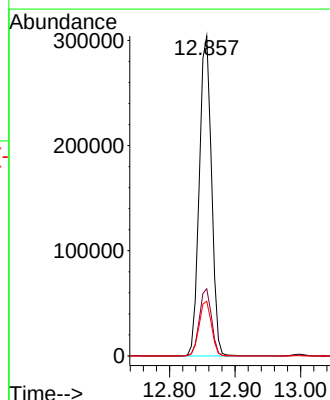
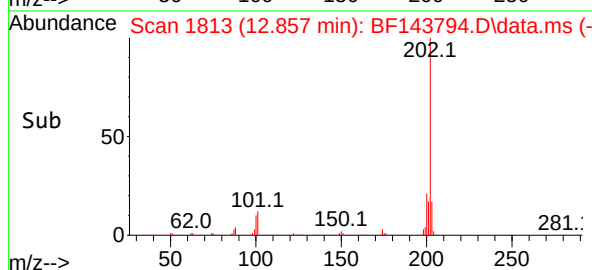
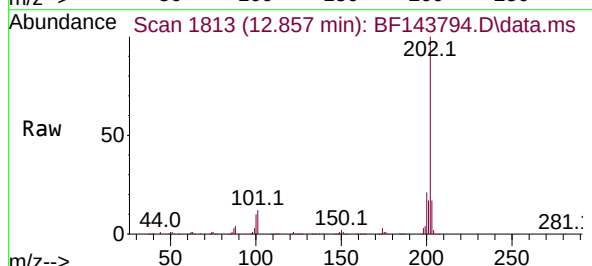
Manual Integrations  
APPROVED

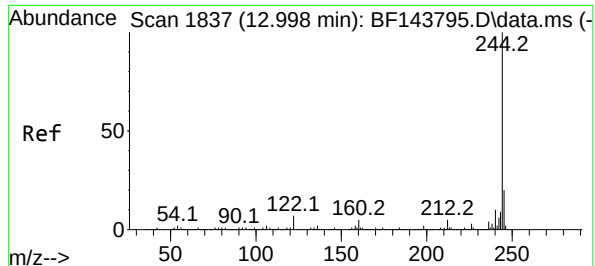
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#78  
Pyrene  
Concen: 20.153 ng  
RT: 12.857 min Scan# 1813  
Delta R.T. 0.000 min  
Lab File: BF143794.D  
Acq: 23 Sep 2025 12:27

Tgt Ion:202 Resp: 390517  
Ion Ratio Lower Upper  
202 100  
200 21.0 17.0 25.4  
203 17.1 13.9 20.9





#79

Terphenyl-d14

Concen: 39.771 ng

RT: 12.998 min Scan# 1837

Delta R.T. -0.006 min

Lab File: BF143794.D

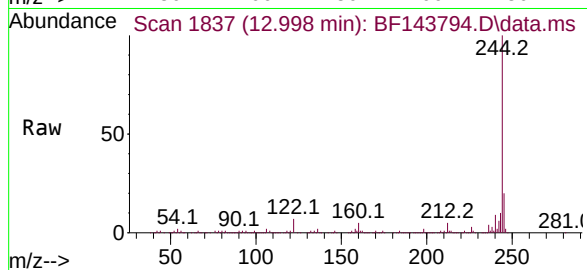
Acq: 23 Sep 2025 12:27

Instrument :

BNA\_F

ClientSampleId :

SSTDICC020



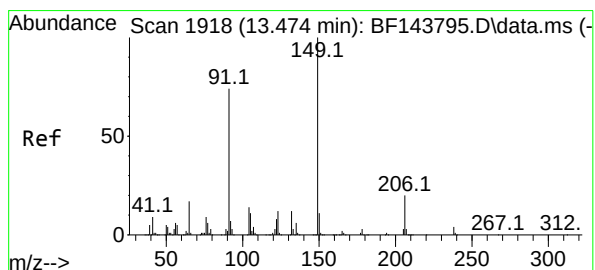
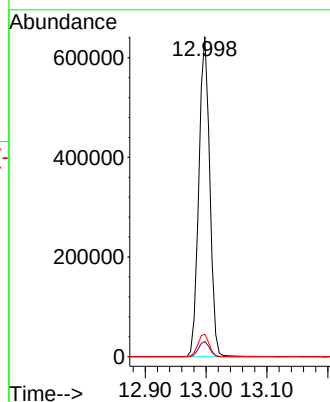
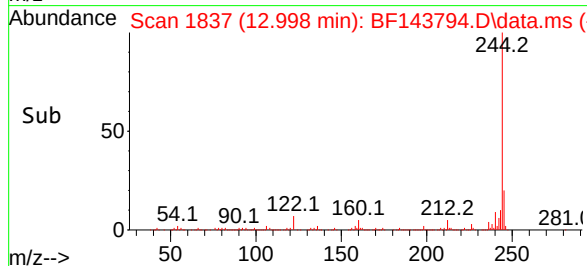
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 244   | Resp: | 798420 |
| Ion Ratio | Lower | Upper |        |
| 244       | 100   |       |        |
| 212       | 4.7   | 3.9   | 5.9    |
| 122       | 7.0   | 5.6   | 8.4    |

Manual Integrations

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Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#80

Butylbenzylphthalate

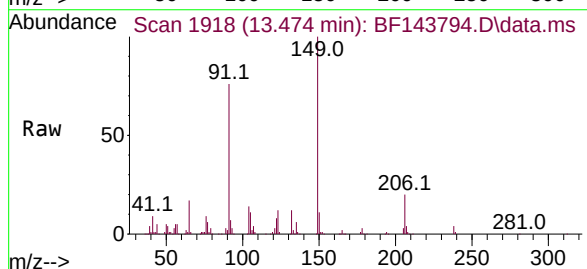
Concen: 19.666 ng

RT: 13.474 min Scan# 1918

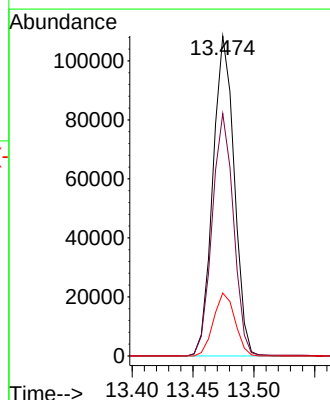
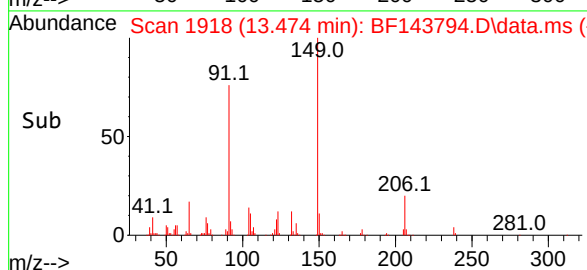
Delta R.T. -0.006 min

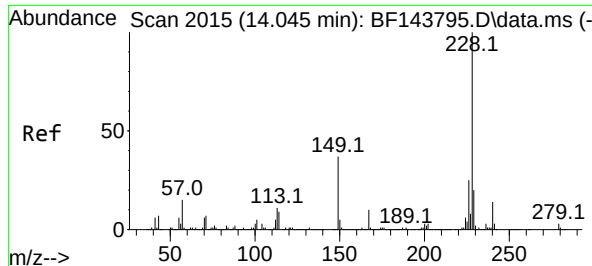
Lab File: BF143794.D

Acq: 23 Sep 2025 12:27



|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 149   | Resp: | 131846 |
| Ion Ratio | Lower | Upper |        |
| 149       | 100   |       |        |
| 91        | 75.7  | 59.5  | 89.3   |
| 206       | 19.6  | 16.1  | 24.1   |





#81

Benzo(a)anthracene

Concen: 20.153 ng

RT: 14.045 min Scan# 20

Delta R.T. -0.006 min

Lab File: BF143794.D

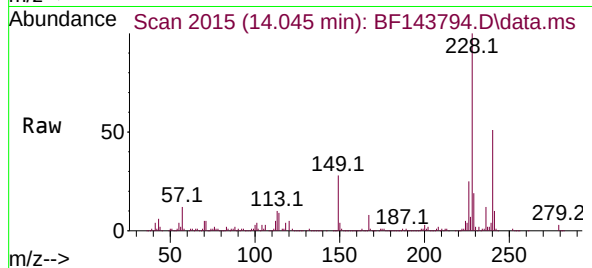
Acq: 23 Sep 2025 12:27

Instrument :

BNA\_F

ClientSampleId :

SSTDICC020



Tgt Ion:228 Resp: 426715

Ion Ratio Lower Upper

228 100

226 25.0 20.2 30.2

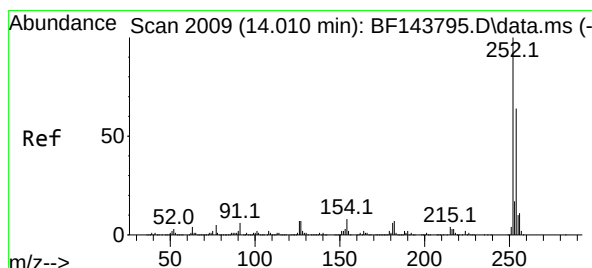
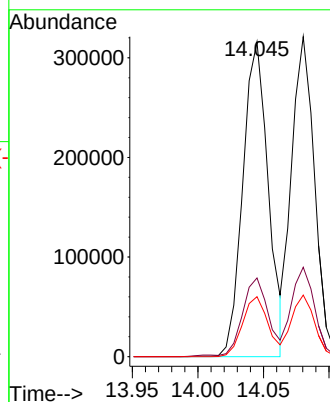
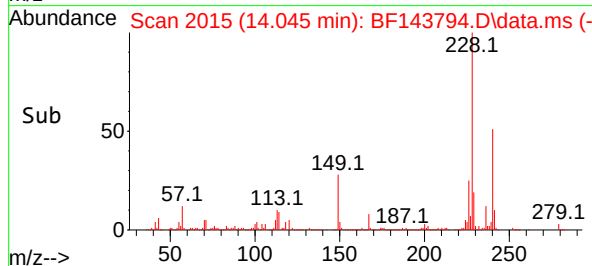
229 19.0 16.1 24.1

Manual Integrations

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Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#82

3,3'-Dichlorobenzidine

Concen: 19.974 ng

RT: 14.010 min Scan# 2009

Delta R.T. 0.000 min

Lab File: BF143794.D

Acq: 23 Sep 2025 12:27

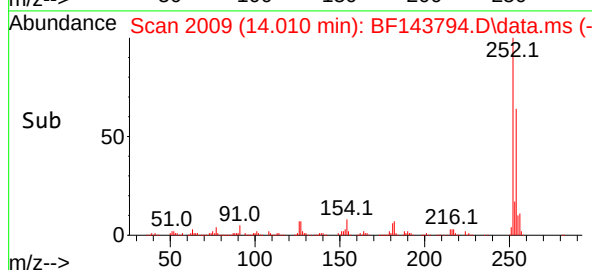
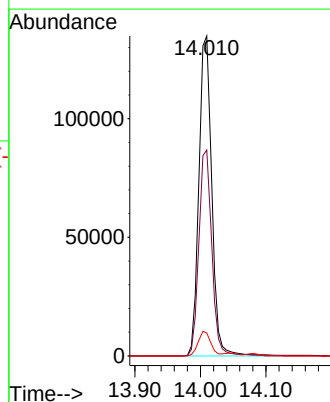
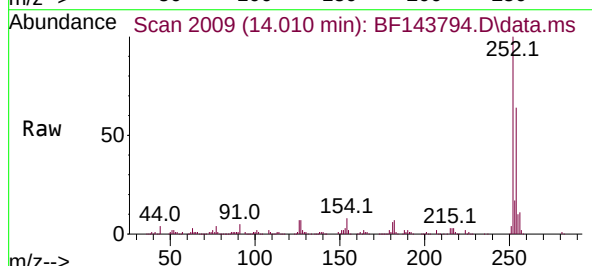
Tgt Ion:252 Resp: 183227

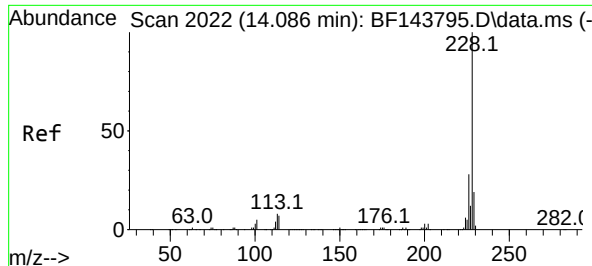
Ion Ratio Lower Upper

252 100

254 64.3 51.5 77.3

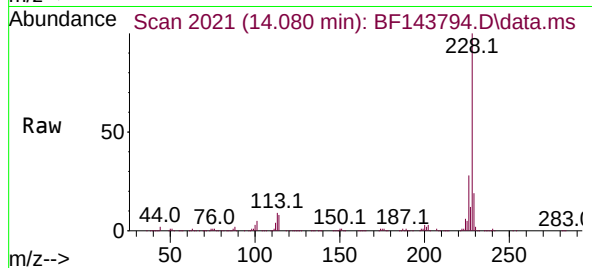
126 7.2 5.4 8.2





#83  
Chrysene  
Concen: 20.482 ng  
RT: 14.080 min Scan# 2013  
Delta R.T. -0.006 min  
Lab File: BF143794.D  
Acq: 23 Sep 2025 12:27

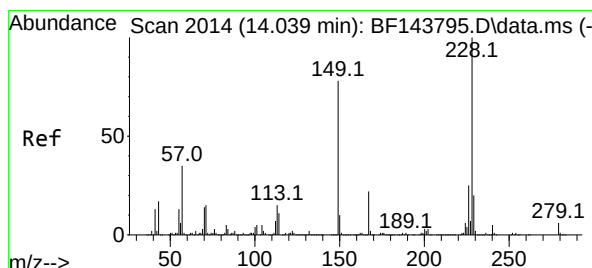
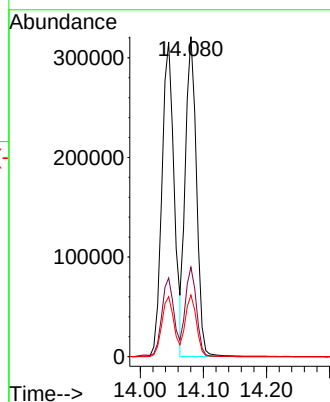
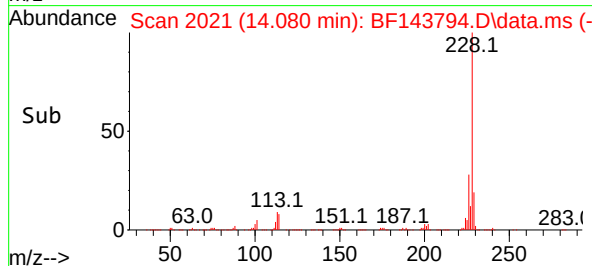
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC020



Tgt Ion:228 Resp: 392431  
Ion Ratio Lower Upper  
228 100  
226 27.9 22.6 33.8  
229 19.2 15.6 23.4

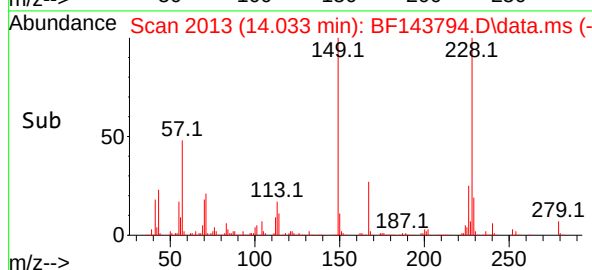
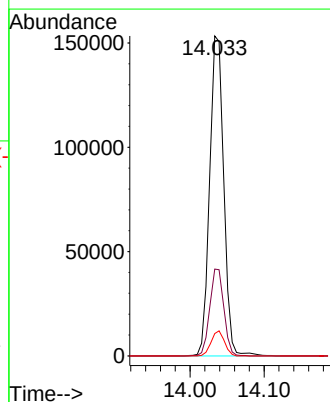
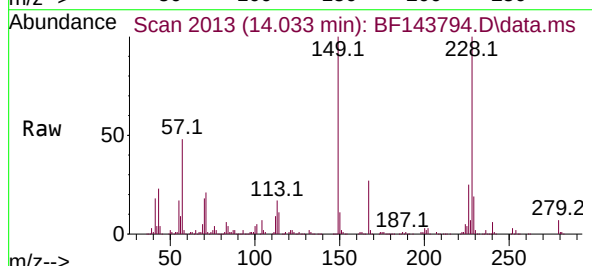
Manual Integrations  
APPROVED

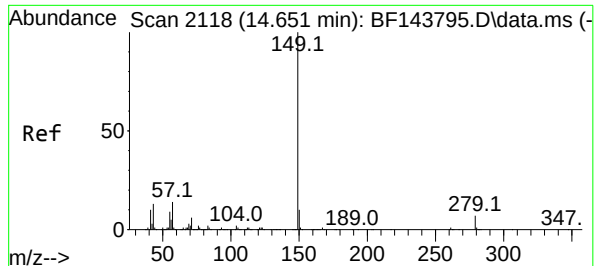
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#84  
Bis(2-ethylhexyl)phthalate  
Concen: 20.620 ng  
RT: 14.033 min Scan# 2013  
Delta R.T. -0.006 min  
Lab File: BF143794.D  
Acq: 23 Sep 2025 12:27

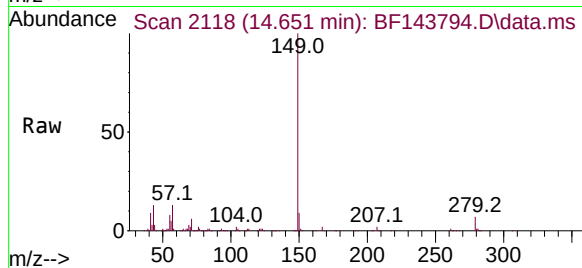
Tgt Ion:149 Resp: 202632  
Ion Ratio Lower Upper  
149 100  
167 27.1 22.2 33.2  
279 7.0 6.0 9.0





#85  
Di-n-octyl phthalate  
Concen: 19.397 ng  
RT: 14.651 min Scan# 2118  
Delta R.T. -0.006 min  
Lab File: BF143794.D  
Acq: 23 Sep 2025 12:27

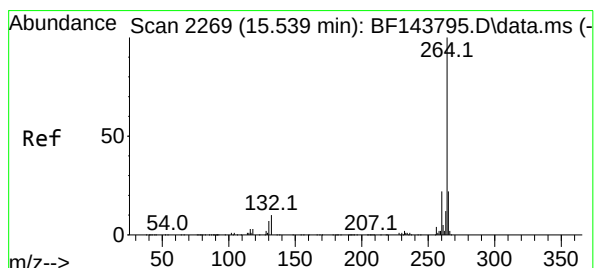
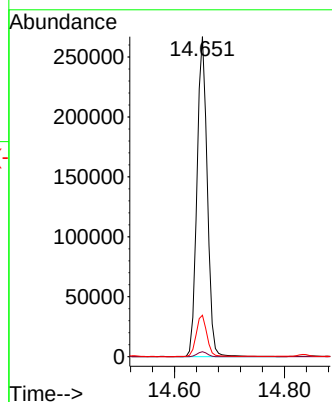
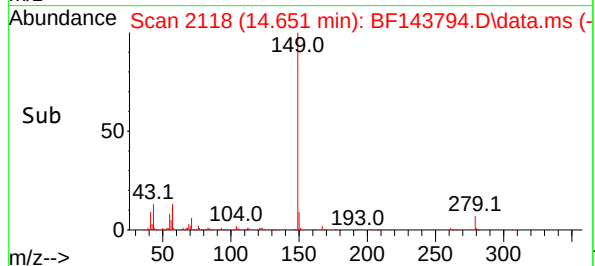
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC020



Tgt Ion:149 Resp: 345751  
Ion Ratio Lower Upper  
149 100  
167 1.5 1.1 1.7  
43 13.6 10.7 16.1

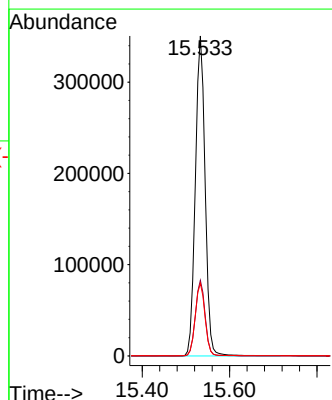
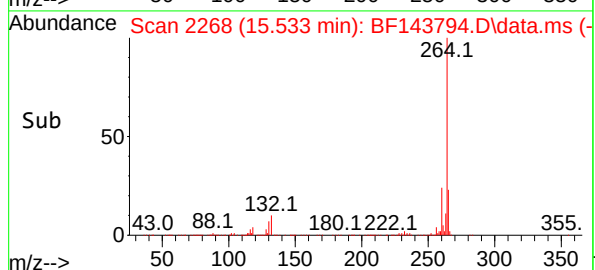
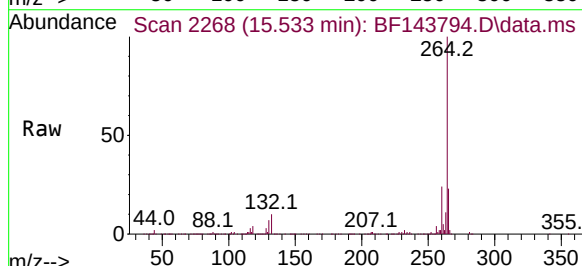
Manual Integrations  
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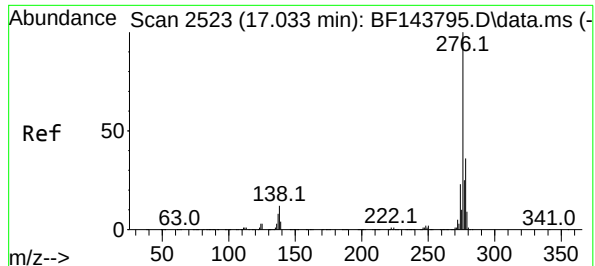
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.533 min Scan# 2268  
Delta R.T. -0.006 min  
Lab File: BF143794.D  
Acq: 23 Sep 2025 12:27

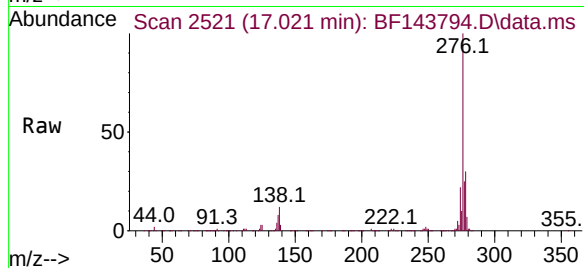
Tgt Ion:264 Resp: 545751  
Ion Ratio Lower Upper  
264 100  
260 23.6 17.9 26.9  
265 22.7 17.7 26.5





#87  
Indeno(1,2,3-cd)pyrene  
Concen: 20.824 ng  
RT: 17.021 min Scan# 2194  
Delta R.T. -0.023 min  
Lab File: BF143794.D  
Acq: 23 Sep 2025 12:27

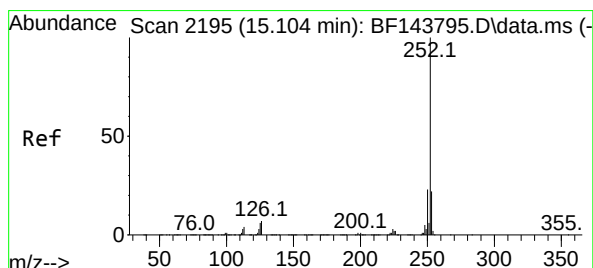
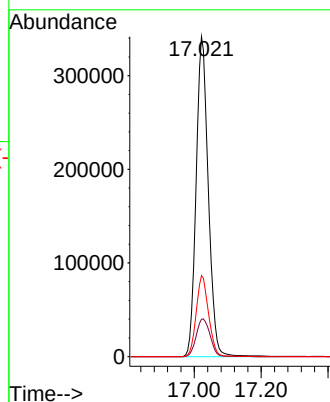
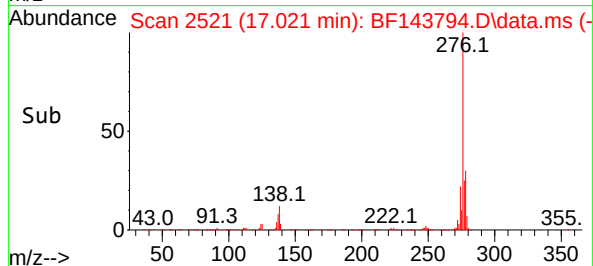
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC020



Tgt Ion: 276 Resp: 862284  
Ion Ratio Lower Upper  
276 100  
138 13.4 10.6 15.8  
277 25.7 20.7 31.1

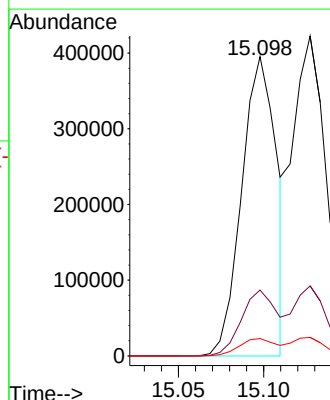
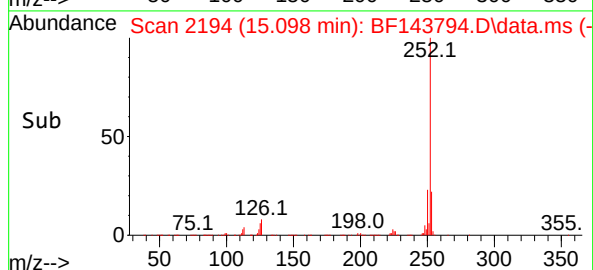
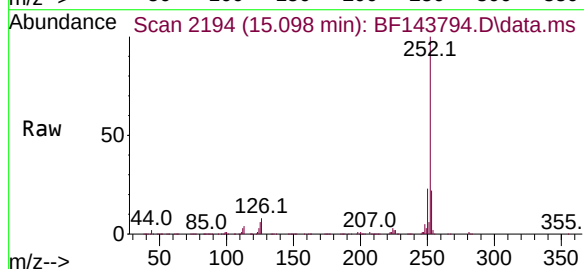
Manual Integrations  
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Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025

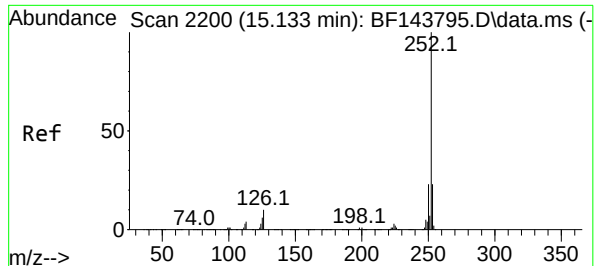


#88  
Benzo(b)fluoranthene  
Concen: 20.215 ng  
RT: 15.098 min Scan# 2194  
Delta R.T. -0.006 min  
Lab File: BF143794.D  
Acq: 23 Sep 2025 12:27

Tgt Ion: 252 Resp: 561825  
Ion Ratio Lower Upper  
252 100  
253 22.0 17.8 26.8  
125 5.8 4.4 6.6







#89

Benzo(k)fluoranthene

Concen: 21.102 ng

RT: 15.127 min Scan# 21

Delta R.T. -0.012 min

Lab File: BF143794.D

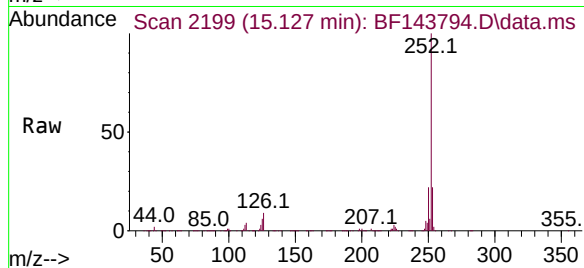
Acq: 23 Sep 2025 12:27

Instrument :

BNA\_F

ClientSampleId :

SSTDICC020



Tgt Ion:252 Resp: 58920

Ion Ratio Lower Upper

252 100

253 21.9 17.9 26.9

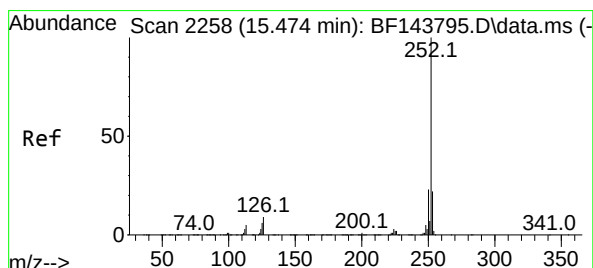
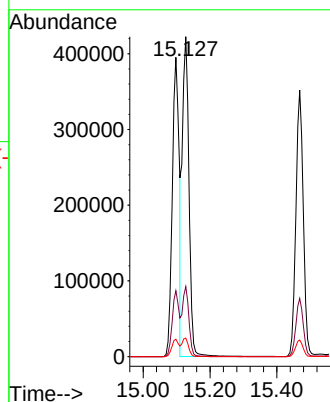
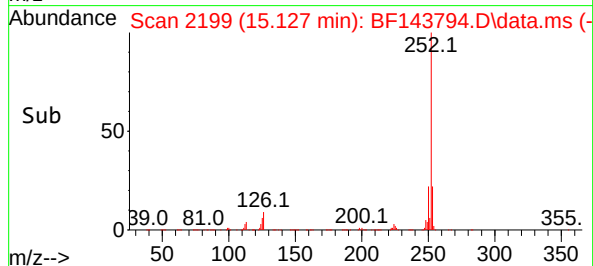
125 5.8 4.6 6.8

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Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#90

Benzo(a)pyrene

Concen: 20.654 ng

RT: 15.468 min Scan# 2257

Delta R.T. -0.012 min

Lab File: BF143794.D

Acq: 23 Sep 2025 12:27

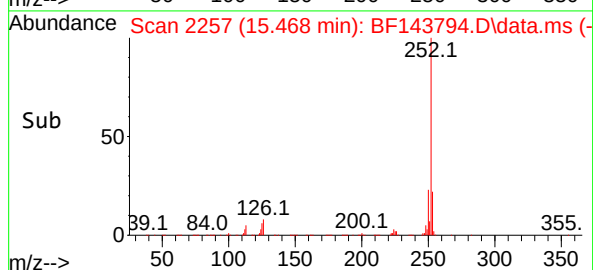
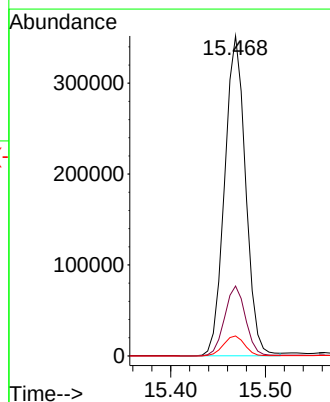
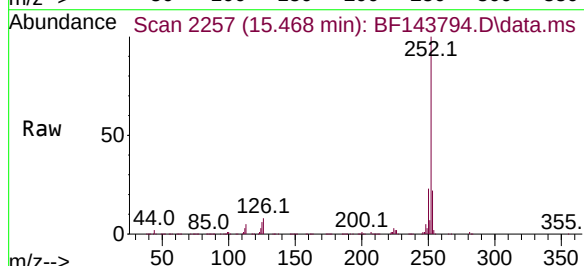
Tgt Ion:252 Resp: 539579

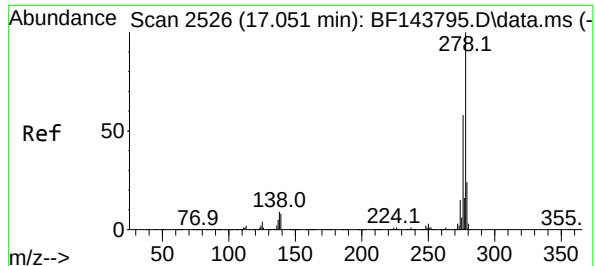
Ion Ratio Lower Upper

252 100

253 21.8 17.6 26.4

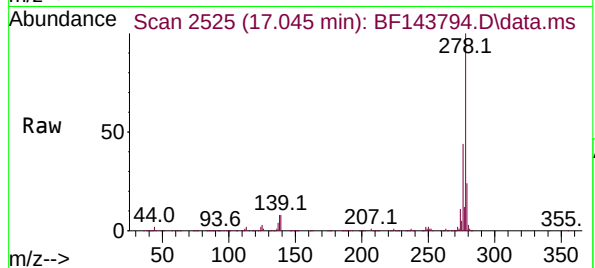
125 6.2 5.0 7.4





#91  
Dibenzo(a,h)anthracene  
Concen: 20.980 ng  
RT: 17.045 min Scan# 21  
Delta R.T. -0.023 min  
Lab File: BF143794.D  
Acq: 23 Sep 2025 12:27

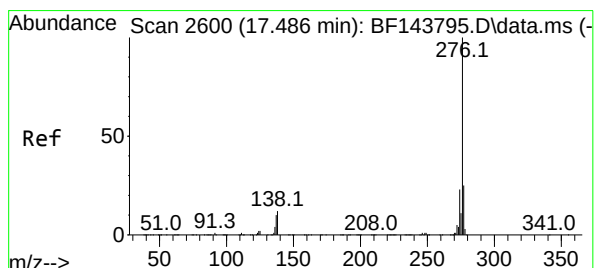
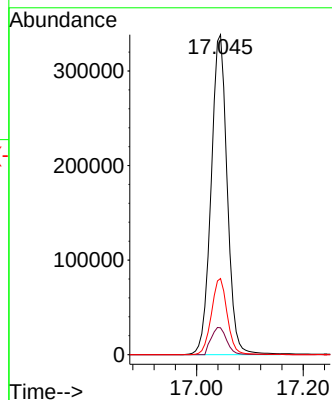
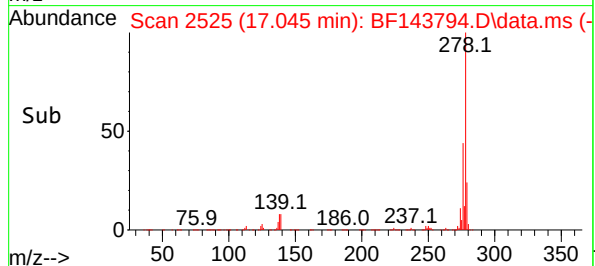
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC020



Tgt Ion:278 Resp: 710542  
Ion Ratio Lower Upper  
278 100  
139 8.4 6.7 10.1  
279 23.8 19.3 28.9

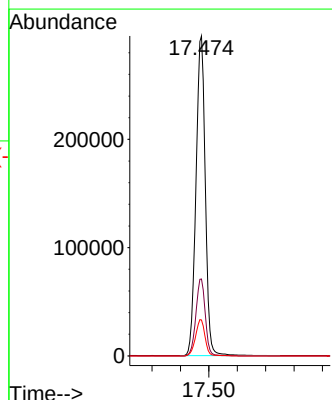
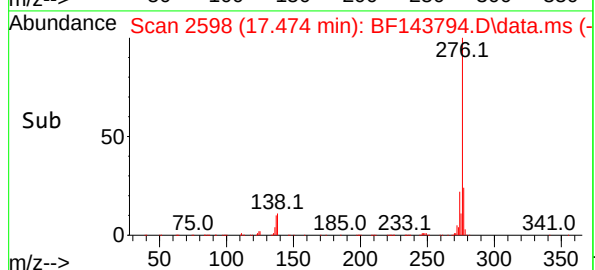
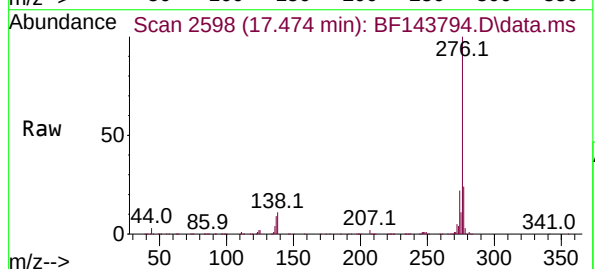
Manual Integrations  
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Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#92  
Benzo(g,h,i)perylene  
Concen: 20.621 ng  
RT: 17.474 min Scan# 2598  
Delta R.T. -0.029 min  
Lab File: BF143794.D  
Acq: 23 Sep 2025 12:27

Tgt Ion:276 Resp: 673228  
Ion Ratio Lower Upper  
276 100  
277 24.1 19.6 29.4  
138 11.2 9.2 13.8



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF092325\  
 Data File : BF143795.D  
 Acq On : 23 Sep 2025 13:59  
 Operator : RC/JU  
 Sample : SSTDICCC040  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SSTDICCC040

Manual Integrations  
 APPROVED

Reviewed By :Rahul Chavli 09/24/2025  
 Supervised By :Jagrut Upadhyay 09/24/2025

Quant Time: Sep 23 17:06:38 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF092325.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Sep 23 16:31:21 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.887  | 152  | 113314   | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8            | 8.169  | 136  | 405913   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10          | 9.922  | 164  | 195477   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10          | 11.410 | 188  | 304940   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12              | 14.057 | 240  | 365989   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12              | 15.539 | 264  | 525577   | 20.000 | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.492  | 112  | 602322   | 85.545 | ng    | 0.00     |
| 7) Phenol-d6                  | 6.504  | 99   | 690438   | 83.097 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 7.445  | 82   | 573383   | 88.897 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 10.710 | 330  | 256232   | 91.848 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 9.245  | 172  | 1056299  | 79.854 | ng    | 0.00     |
| 79) Terphenyl-d14             | 12.998 | 244  | 1496108  | 80.257 | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| Target Compounds              |        |      |          |        |       | Qvalue   |
| 2) 1,4-Dioxane                | 2.634  | 88   | 144938   | 43.417 | ng    | 100      |
| 3) Pyridine                   | 3.399  | 79   | 390716   | 43.360 | ng    | 100      |
| 4) n-Nitrosodimethylamine     | 3.340  | 42   | 192963   | 42.707 | ng    | 100      |
| 6) Aniline                    | 6.545  | 93   | 486101   | 41.561 | ng    | 100      |
| 8) 2-Chlorophenol             | 6.669  | 128  | 302589   | 42.379 | ng    | 100      |
| 9) Benzaldehyde               | 6.434  | 77   | 332514   | 47.119 | ng    | 100      |
| 10) Phenol                    | 6.516  | 94   | 396049m  | 42.282 | ng    |          |
| 11) bis(2-Chloroethyl)ether   | 6.616  | 93   | 309829   | 42.197 | ng    | 100      |
| 12) 1,3-Dichlorobenzene       | 6.828  | 146  | 350005   | 42.220 | ng    | 100      |
| 13) 1,4-Dichlorobenzene       | 6.904  | 146  | 348233   | 42.092 | ng    | 100      |
| 14) 1,2-Dichlorobenzene       | 7.057  | 146  | 328481   | 41.922 | ng    | 100      |
| 15) Benzyl Alcohol            | 7.022  | 79   | 246535   | 42.340 | ng    | 100      |
| 16) 2,2'-oxybis(1-Chloropr... | 7.157  | 45   | 732266   | 42.058 | ng    | 100      |
| 17) 2-Methylphenol            | 7.128  | 107  | 231425   | 41.866 | ng    | 100      |
| 18) Hexachloroethane          | 7.398  | 117  | 123042   | 42.290 | ng    | 100      |
| 19) n-Nitroso-di-n-propyla... | 7.292  | 70   | 207240   | 39.992 | ng    | 100      |
| 20) 3+4-Methylphenols         | 7.281  | 107  | 288081   | 42.795 | ng    | 100      |
| 22) Acetophenone              | 7.292  | 105  | 375588   | 42.128 | ng    | 100      |
| 24) Nitrobenzene              | 7.463  | 77   | 315613   | 42.939 | ng    | 100      |
| 25) Isophorone                | 7.704  | 82   | 546218   | 42.269 | ng    | 100      |
| 26) 2-Nitrophenol             | 7.781  | 139  | 120369   | 40.347 | ng    | 100      |
| 27) 2,4-Dimethylphenol        | 7.810  | 122  | 246324   | 42.648 | ng    | 100      |
| 28) bis(2-Chloroethoxy)met... | 7.916  | 93   | 354402   | 42.213 | ng    | 100      |
| 29) 2,4-Dichlorophenol        | 8.022  | 162  | 242031   | 42.587 | ng    | 100      |
| 30) 1,2,4-Trichlorobenzene    | 8.110  | 180  | 250976   | 42.554 | ng    | 100      |
| 31) Naphthalene               | 8.192  | 128  | 814068   | 41.894 | ng    | 100      |
| 32) Benzoic acid              | 7.892  | 122  | 114033   | 40.921 | ng    | 100      |
| 33) 4-Chloroaniline           | 8.233  | 127  | 288280   | 42.217 | ng    | 100      |
| 34) Hexachlorobutadiene       | 8.310  | 225  | 188867   | 42.957 | ng    | 100      |
| 35) Caprolactam               | 8.586  | 113  | 60592    | 41.712 | ng    | 100      |
| 36) 4-Chloro-3-methylphenol   | 8.710  | 107  | 224136   | 42.051 | ng    | 100      |
| 37) 2-Methylnaphthalene       | 8.881  | 142  | 515616   | 41.614 | ng    | 100      |
| 38) 1-Methylnaphthalene       | 8.981  | 142  | 496939   | 41.901 | ng    | 100      |
| 40) 1,2,4,5-Tetrachloroben... | 9.045  | 216  | 245432   | 41.605 | ng    | 100      |
| 41) Hexachlorocyclopentadiene | 9.033  | 237  | 163505   | 43.733 | ng    | 100      |
| 43) 2,4,6-Trichlorophenol     | 9.157  | 196  | 164818   | 44.620 | ng    | 100      |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF092325\  
 Data File : BF143795.D  
 Acq On : 23 Sep 2025 13:59  
 Operator : RC/JU  
 Sample : SSTDICCC040  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SSTDICCC040

Manual Integrations  
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Reviewed By :Rahul Chavli 09/24/2025  
 Supervised By :Jagrut Upadhyay 09/24/2025

Quant Time: Sep 23 17:06:38 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF092325.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Sep 23 16:31:21 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 44) 2,4,5-Trichlorophenol     | 9.192  | 196  | 165369   | 42.801 | ng    | 100      |
| 46) 1,1'-Biphenyl             | 9.345  | 154  | 584522   | 41.309 | ng    | 100      |
| 47) 2-Chloronaphthalene       | 9.369  | 162  | 474899   | 41.694 | ng    | 100      |
| 48) 2-Nitroaniline            | 9.463  | 65   | 156231   | 45.383 | ng    | 100      |
| 49) Acenaphthylene            | 9.786  | 152  | 660923   | 42.150 | ng    | 100      |
| 50) Dimethylphthalate         | 9.639  | 163  | 502623   | 42.186 | ng    | 100      |
| 51) 2,6-Dinitrotoluene        | 9.704  | 165  | 89151    | 45.543 | ng    | 100      |
| 52) Acenaphthene              | 9.957  | 154  | 433748   | 42.036 | ng    | 100      |
| 53) 3-Nitroaniline            | 9.869  | 138  | 110739   | 46.671 | ng    | 100      |
| 54) 2,4-Dinitrophenol         | 9.975  | 184  | 24685    | 41.301 | ng    | 100      |
| 55) Dibenzofuran              | 10.128 | 168  | 610393   | 41.833 | ng    | 100      |
| 56) 4-Nitrophenol             | 10.016 | 139  | 81189    | 42.462 | ng    | 100      |
| 57) 2,4-Dinitrotoluene        | 10.104 | 165  | 120114   | 41.745 | ng    | 100      |
| 58) Fluorene                  | 10.475 | 166  | 448265   | 41.324 | ng    | 100      |
| 59) 2,3,4,6-Tetrachlorophenol | 10.245 | 232  | 145681   | 44.013 | ng    | 100      |
| 60) Diethylphthalate          | 10.345 | 149  | 473302   | 42.438 | ng    | 100      |
| 61) 4-Chlorophenyl-phenyle... | 10.463 | 204  | 230643   | 41.729 | ng    | 100      |
| 62) 4-Nitroaniline            | 10.480 | 138  | 103193   | 46.254 | ng    | 100      |
| 63) Azobenzene                | 10.627 | 77   | 499929   | 42.532 | ng    | 100      |
| 65) 4,6-Dinitro-2-methylph... | 10.510 | 198  | 42447    | 40.163 | ng    | 100      |
| 66) n-Nitrosodiphenylamine    | 10.580 | 169  | 416100   | 41.492 | ng    | 100      |
| 67) 4-Bromophenyl-phenylether | 10.957 | 248  | 219921   | 42.319 | ng    | 100      |
| 68) Hexachlorobenzene         | 11.022 | 284  | 300364   | 41.941 | ng    | 100      |
| 69) Atrazine                  | 11.104 | 200  | 128423   | 44.222 | ng    | 100      |
| 70) Pentachlorophenol         | 11.210 | 266  | 156073   | 43.781 | ng    | 100      |
| 71) Phenanthrene              | 11.439 | 178  | 660040   | 42.160 | ng    | 100      |
| 72) Anthracene                | 11.486 | 178  | 660736   | 42.075 | ng    | 100      |
| 73) Carbazole                 | 11.639 | 167  | 595454   | 43.368 | ng    | 100      |
| 74) Di-n-butylphthalate       | 11.974 | 149  | 705755   | 44.694 | ng    | 100      |
| 75) Fluoranthene              | 12.627 | 202  | 697899   | 44.322 | ng    | 100      |
| 77) Benzidine                 | 12.751 | 184  | 374182   | 41.956 | ng    | 100      |
| 78) Pyrene                    | 12.857 | 202  | 735401   | 40.870 | ng    | 100      |
| 80) Butylbenzylphthalate      | 13.474 | 149  | 286527   | 46.027 | ng    | 100      |
| 81) Benzo(a)anthracene        | 14.045 | 228  | 840188   | 42.732 | ng    | 100      |
| 82) 3,3'-Dichlorobenzidine    | 14.010 | 252  | 363730   | 42.702 | ng    | 100      |
| 83) Chrysene                  | 14.086 | 228  | 744962   | 41.873 | ng    | 100      |
| 84) Bis(2-ethylhexyl)phtha... | 14.039 | 149  | 408417   | 44.759 | ng    | 100      |
| 85) Di-n-octyl phthalate      | 14.651 | 149  | 741702   | 44.811 | ng    | 100      |
| 87) Indeno(1,2,3-cd)pyrene    | 17.033 | 276  | 1690390  | 42.389 | ng    | 100      |
| 88) Benzo(b)fluoranthene      | 15.104 | 252  | 1160651  | 43.365 | ng    | 100      |
| 89) Benzo(k)fluoranthene      | 15.133 | 252  | 1144789  | 42.573 | ng    | 100      |
| 90) Benzo(a)pyrene            | 15.474 | 252  | 1079512  | 42.908 | ng    | 100      |
| 91) Dibenzo(a,h)anthracene    | 17.051 | 278  | 1399884  | 42.920 | ng    | 100      |
| 92) Benzo(g,h,i)perylene      | 17.486 | 276  | 1344334  | 42.757 | ng    | 100      |

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

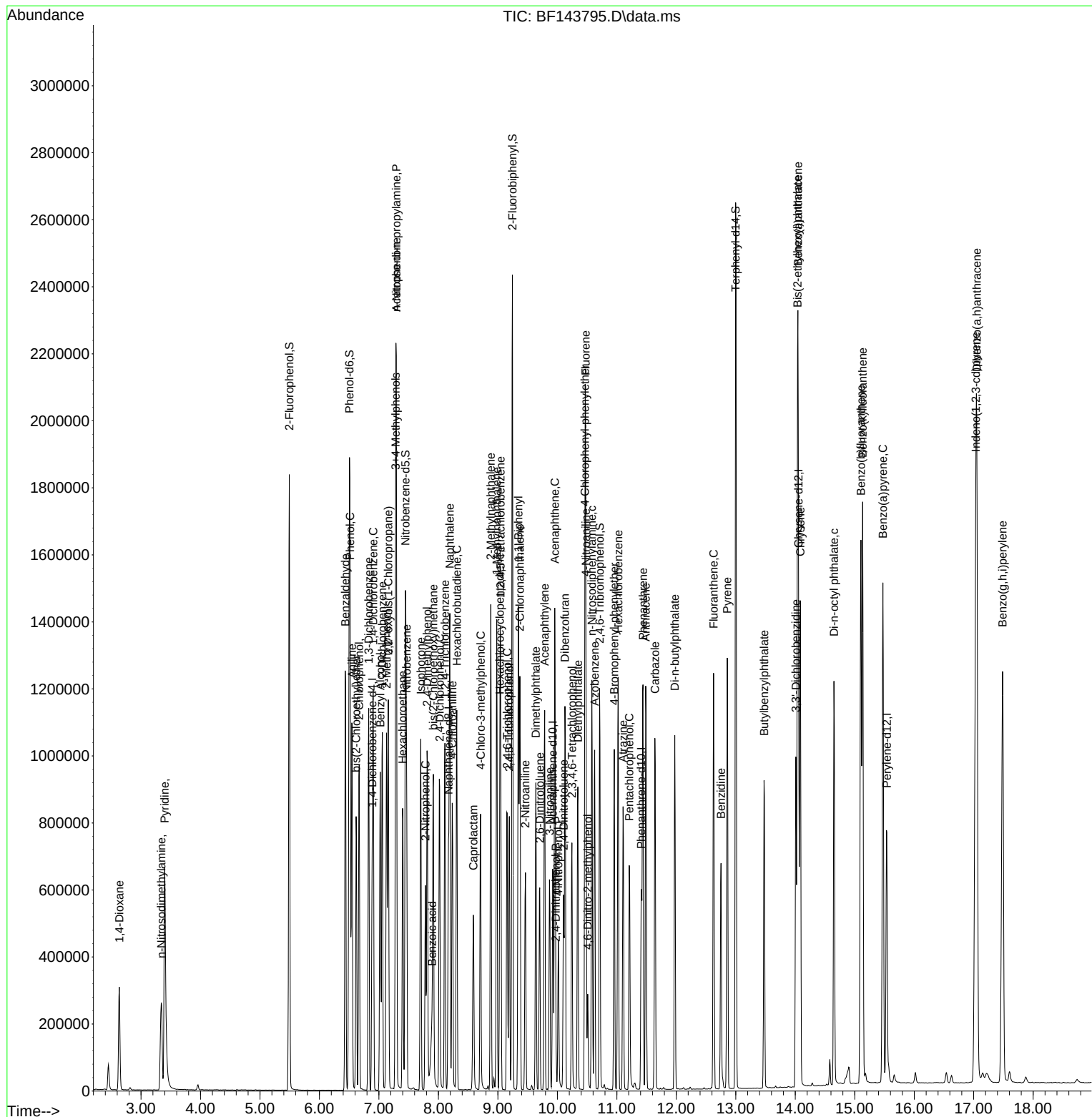
Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF092325\  
Data File : BF143795.D  
Acq On : 23 Sep 2025 13:59  
Operator : RC/JU  
Sample : SSTDICCC040  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

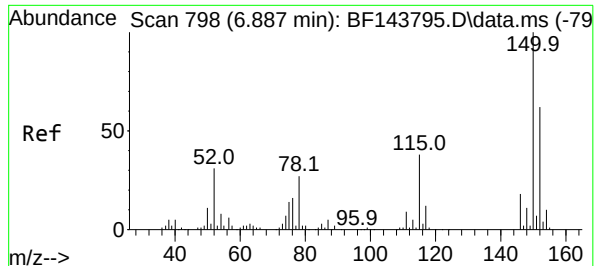
**Instrument :**  
BNA\_F  
**ClientSampleId :**  
SSTDICCC040

## Manual Integrations APPROVED

Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025

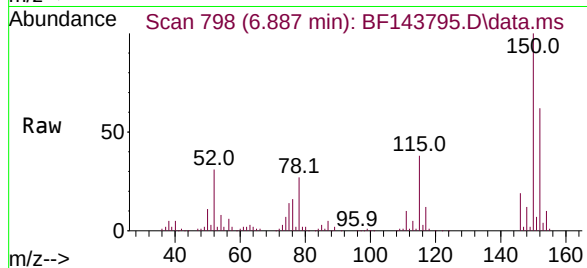
Quant Time: Sep 23 17:06:38 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF092325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Sep 23 16:31:21 2025  
Response via : Initial Calibration





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.887 min Scan# 79  
Delta R.T. -0.000 min  
Lab File: BF143795.D  
Acq: 23 Sep 2025 13:59

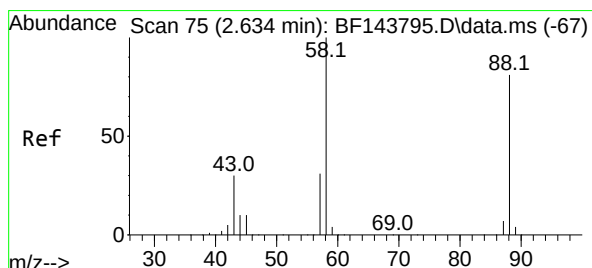
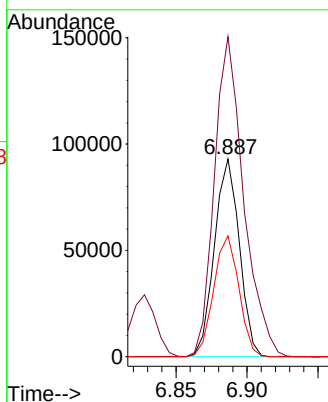
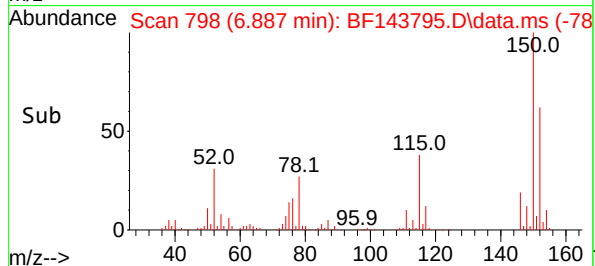
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICCC040



Tgt Ion:152 Resp: 113314  
Ion Ratio Lower Upper  
152 100  
150 162.0 129.6 194.4  
115 61.2 49.0 73.4

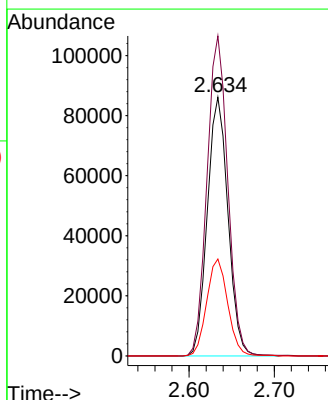
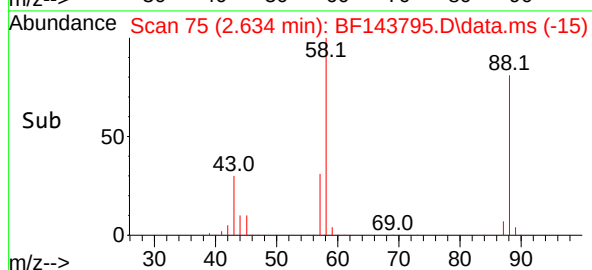
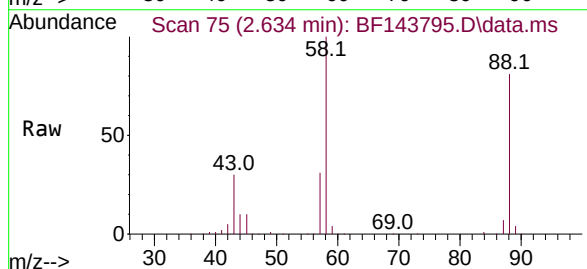
Manual Integrations  
APPROVED

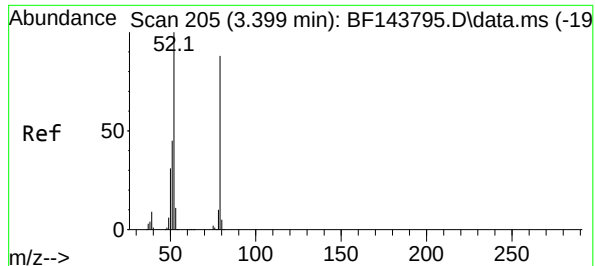
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#2  
1,4-Dioxane  
Concen: 43.417 ng  
RT: 2.634 min Scan# 75  
Delta R.T. 0.000 min  
Lab File: BF143795.D  
Acq: 23 Sep 2025 13:59

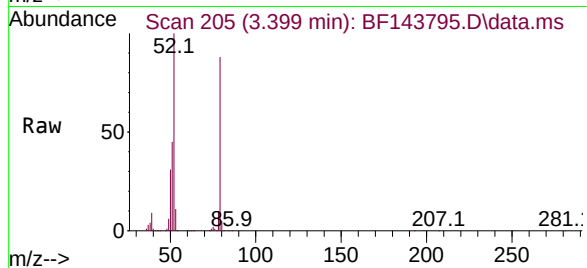
Tgt Ion: 88 Resp: 144938  
Ion Ratio Lower Upper  
88 100  
58 124.3 99.4 149.2  
43 38.2 30.6 45.8





#3  
Pyridine  
Concen: 43.360 ng  
RT: 3.399 min Scan# 205  
Delta R.T. 0.000 min  
Lab File: BF143795.D  
Acq: 23 Sep 2025 13:59

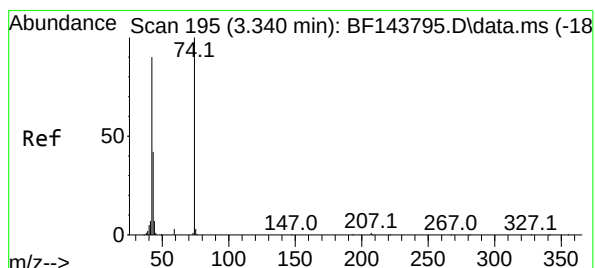
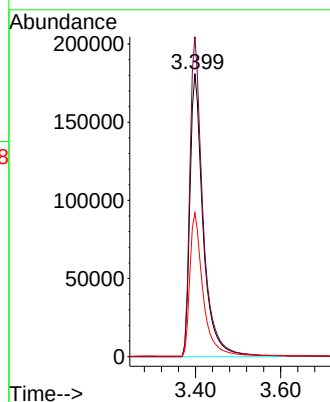
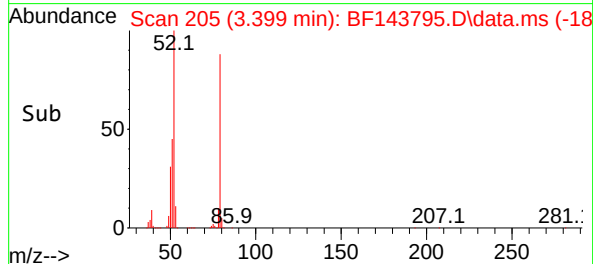
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICCC040



Tgt Ion: 79 Resp: 390716  
Ion Ratio Lower Upper  
79 100  
52 113.1 90.5 135.7  
51 50.8 40.6 61.0

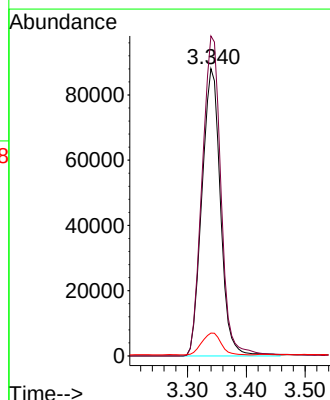
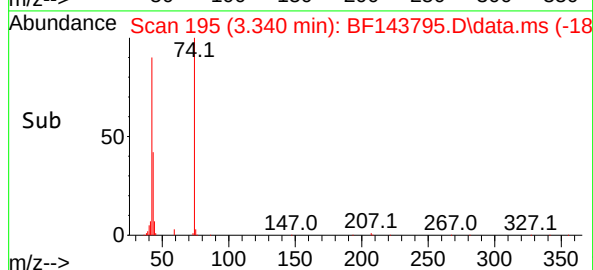
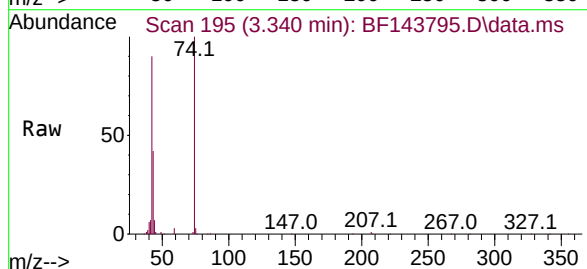
Manual Integrations  
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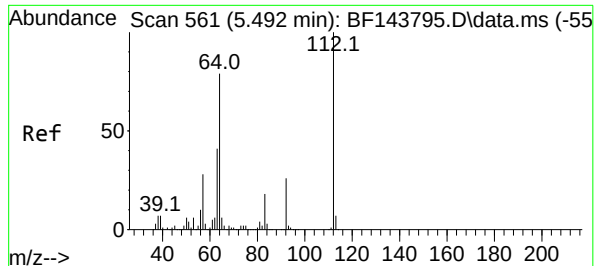
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#4  
n-Nitrosodimethylamine  
Concen: 42.707 ng  
RT: 3.340 min Scan# 195  
Delta R.T. -0.018 min  
Lab File: BF143795.D  
Acq: 23 Sep 2025 13:59

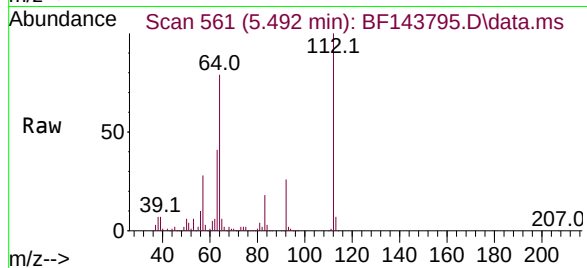
Tgt Ion: 42 Resp: 192963  
Ion Ratio Lower Upper  
42 100  
74 111.4 89.1 133.7  
44 8.0 6.4 9.6





#5  
2-Fluorophenol  
Concen: 85.545 ng  
RT: 5.492 min Scan# 561  
Delta R.T. -0.006 min  
Lab File: BF143795.D  
Acq: 23 Sep 2025 13:59

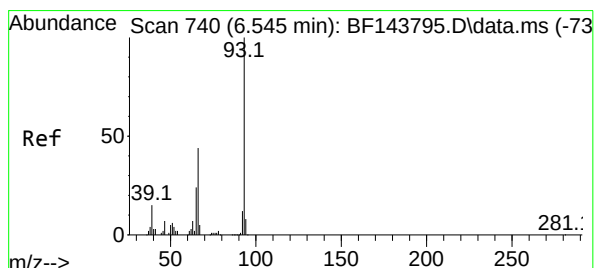
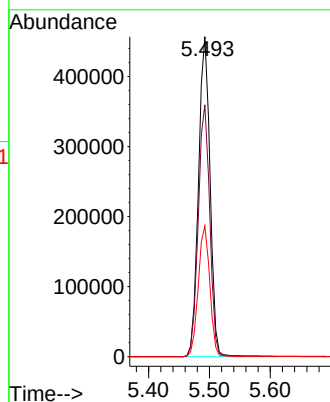
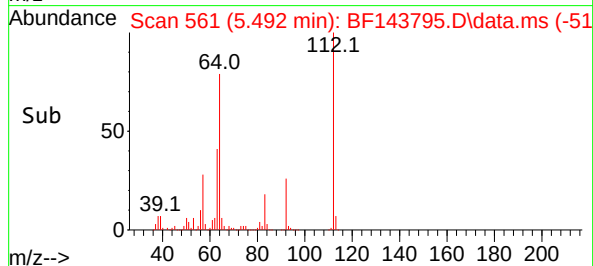
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICCC040



Tgt Ion: 112 Resp: 602322  
Ion Ratio Lower Upper  
112 100  
64 78.7 63.0 94.4  
63 40.8 32.6 49.0

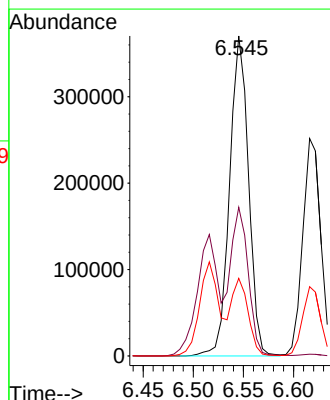
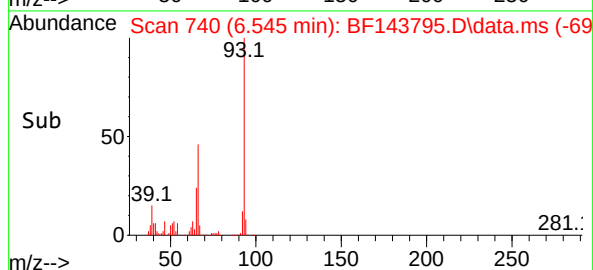
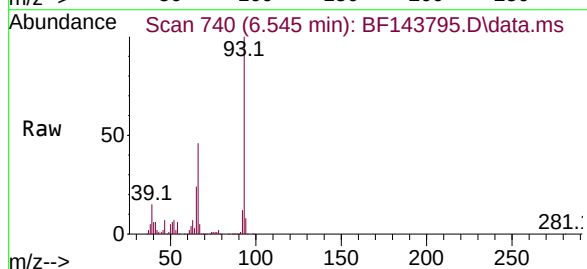
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Supervised By :Jagrut Upadhyay 09/24/2025

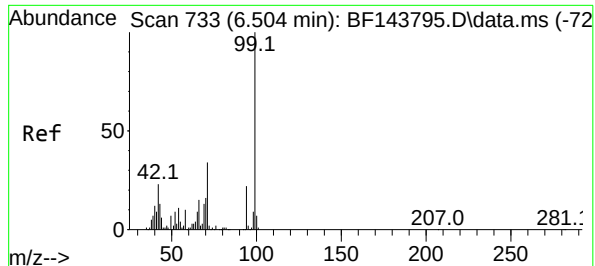


#6  
Aniline  
Concen: 41.561 ng  
RT: 6.545 min Scan# 740  
Delta R.T. -0.006 min  
Lab File: BF143795.D  
Acq: 23 Sep 2025 13:59

Tgt Ion: 93 Resp: 486101  
Ion Ratio Lower Upper  
93 100  
66 46.4 37.1 55.7  
65 24.2 19.4 29.0







#7

Phenol-d6

Concen: 83.097 ng

RT: 6.504 min Scan# 733

Delta R.T. -0.006 min

Lab File: BF143795.D

Acq: 23 Sep 2025 13:59

Instrument :

BNA\_F

ClientSampleId :

SSTDICCC040

Tgt Ion: 99 Resp: 690438

Ion Ratio Lower Upper

99 100

42 23.3 18.6 28.0

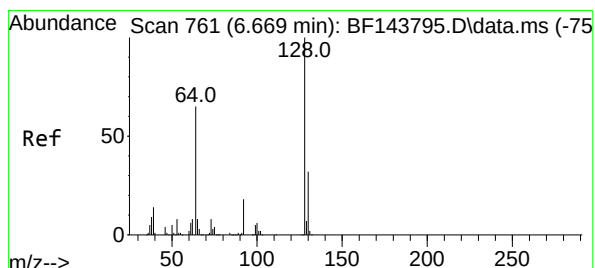
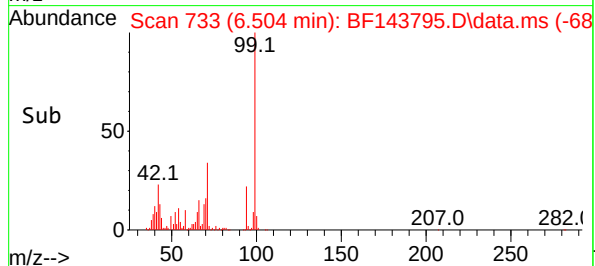
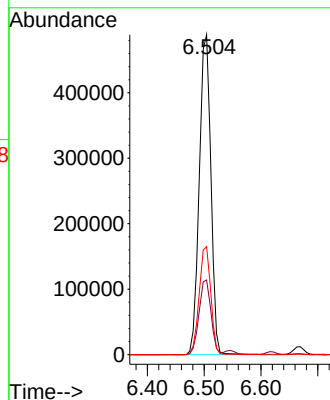
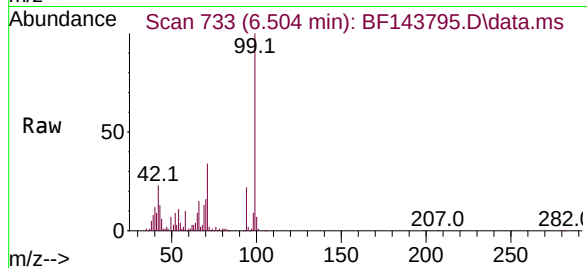
71 33.7 27.0 40.4

Manual Integrations

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Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#8

2-Chlorophenol

Concen: 42.379 ng

RT: 6.669 min Scan# 761

Delta R.T. 0.000 min

Lab File: BF143795.D

Acq: 23 Sep 2025 13:59

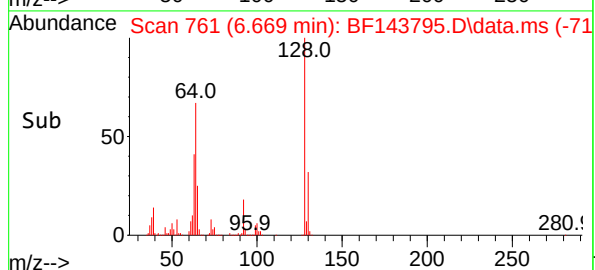
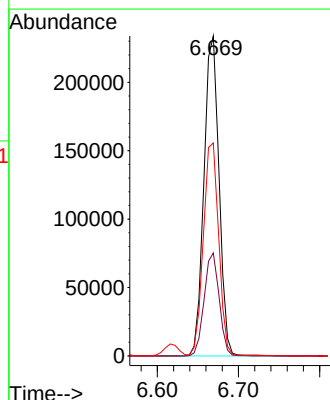
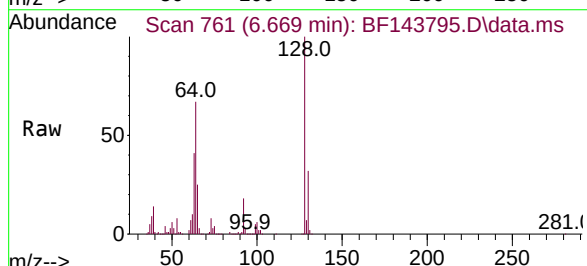
Tgt Ion:128 Resp: 302589

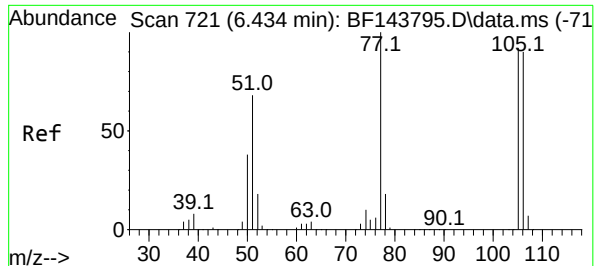
Ion Ratio Lower Upper

128 100

130 32.2 12.2 52.2

64 66.5 46.5 86.5



#9  
Benzaldehyde

Concen: 47.119 ng

RT: 6.434 min Scan# 721

Delta R.T. -0.006 min

Lab File: BF143795.D

Acq: 23 Sep 2025 13:59

Instrument :

BNA\_F

ClientSampleId :

SSTDICCC040

Tgt Ion: 77 Resp: 332514

Ion Ratio Lower Upper

77 100

105 91.8 71.8 111.8

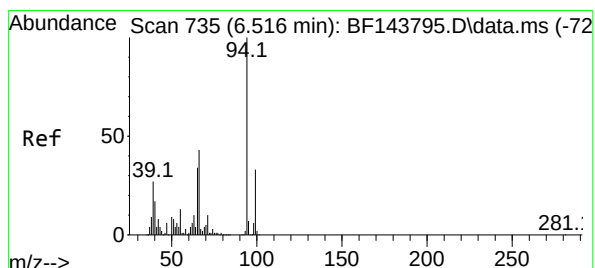
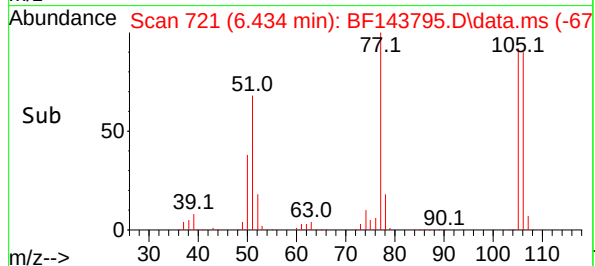
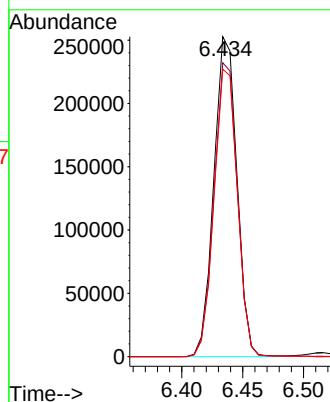
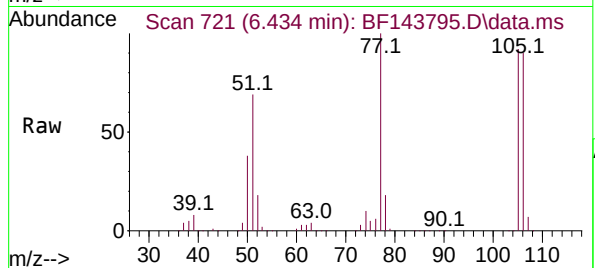
106 89.8 69.8 109.8

Manual Integrations

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Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#10

Phenol

Concen: 42.282 ng m

RT: 6.516 min Scan# 735

Delta R.T. -0.012 min

Lab File: BF143795.D

Acq: 23 Sep 2025 13:59

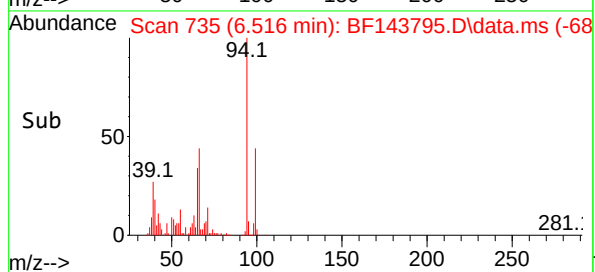
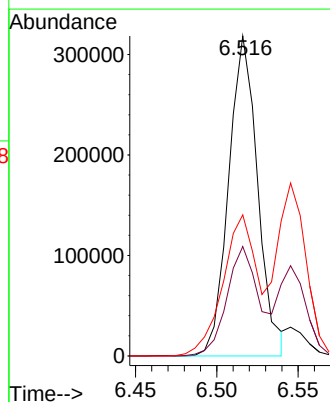
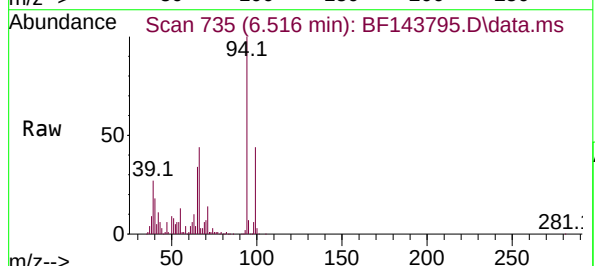
Tgt Ion: 94 Resp: 396049

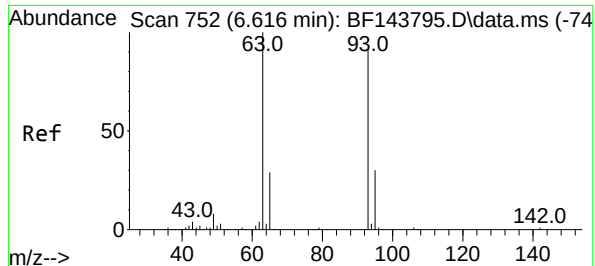
Ion Ratio Lower Upper

94 100

65 34.2 14.2 54.2

66 44.1 24.1 64.1





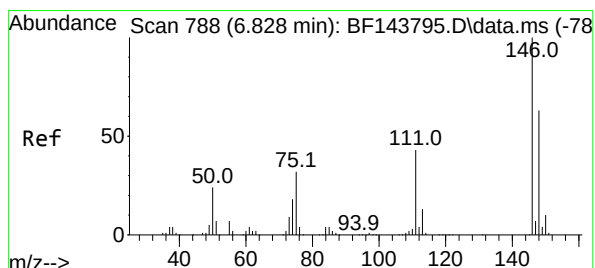
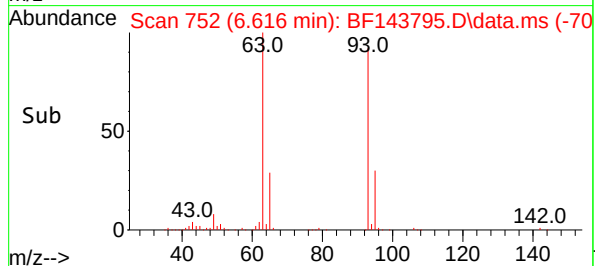
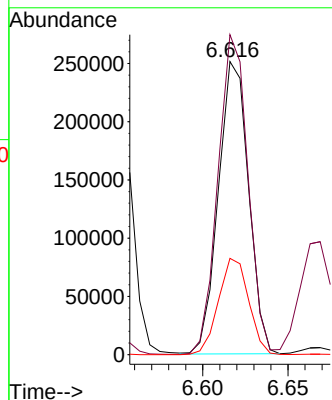
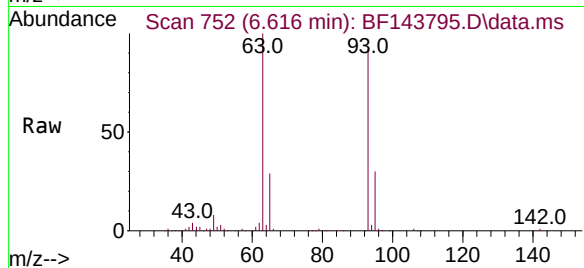
#11  
bis(2-Chloroethyl)ether  
Concen: 42.197 ng  
RT: 6.616 min Scan# 752  
Delta R.T. -0.006 min  
Lab File: BF143795.D  
Acq: 23 Sep 2025 13:59

Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICCC040

Tgt Ion: 93 Resp: 309829  
Ion Ratio Lower Upper  
93 100  
63 109.2 89.2 129.2  
95 32.9 12.9 52.9

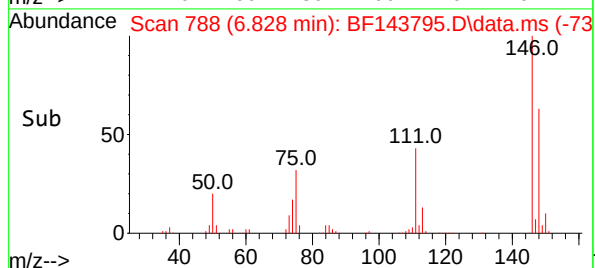
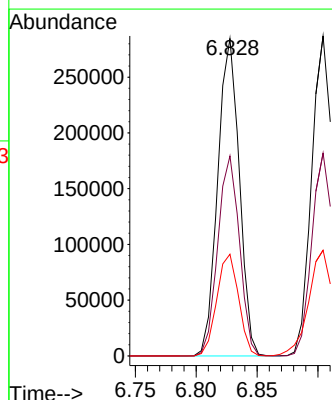
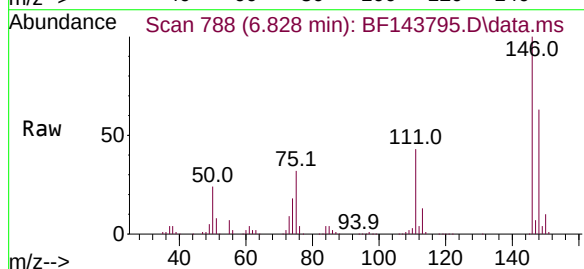
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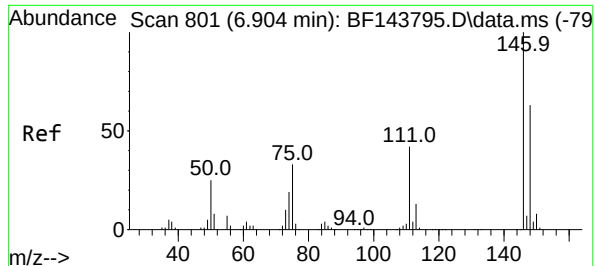
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#12  
1,3-Dichlorobenzene  
Concen: 42.220 ng  
RT: 6.828 min Scan# 788  
Delta R.T. 0.000 min  
Lab File: BF143795.D  
Acq: 23 Sep 2025 13:59

Tgt Ion:146 Resp: 350005  
Ion Ratio Lower Upper  
146 100  
148 63.0 50.4 75.6  
75 32.0 25.6 38.4





#13

1,4-Dichlorobenzene

Concen: 42.092 ng

RT: 6.904 min Scan# 801

Delta R.T. 0.000 min

Lab File: BF143795.D

Acq: 23 Sep 2025 13:59

Instrument :

BNA\_F

ClientSampleId :

SSTDICCC040

Tgt Ion:146 Resp: 348233

Ion Ratio Lower Upper

146 100

148 63.4 50.7 76.1

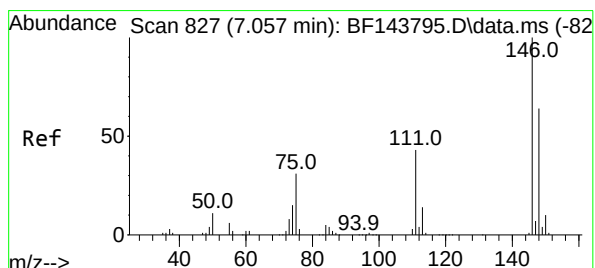
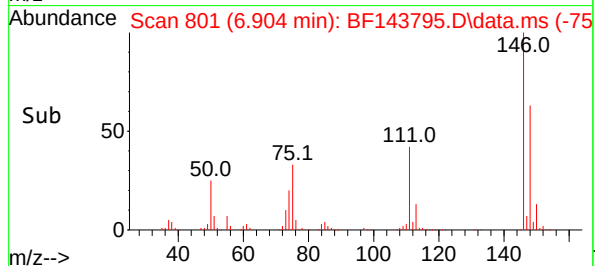
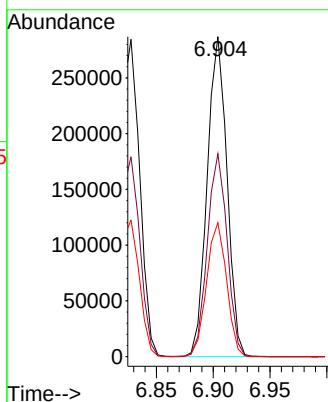
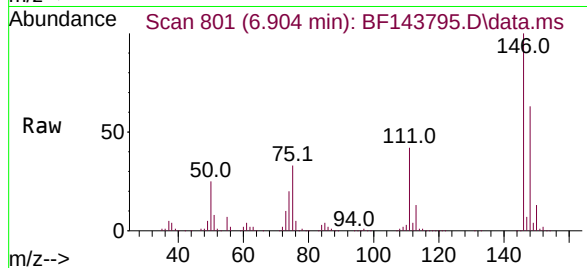
111 41.8 33.4 50.2

Manual Integrations

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Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#14

1,2-Dichlorobenzene

Concen: 41.922 ng

RT: 7.057 min Scan# 827

Delta R.T. 0.000 min

Lab File: BF143795.D

Acq: 23 Sep 2025 13:59

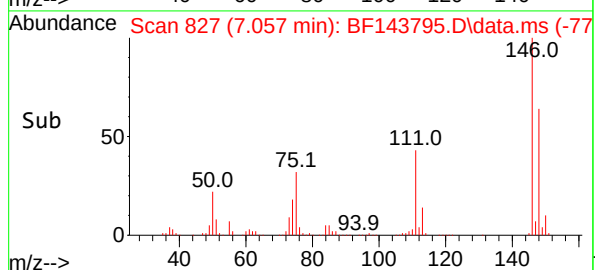
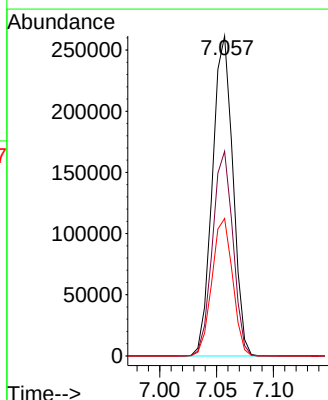
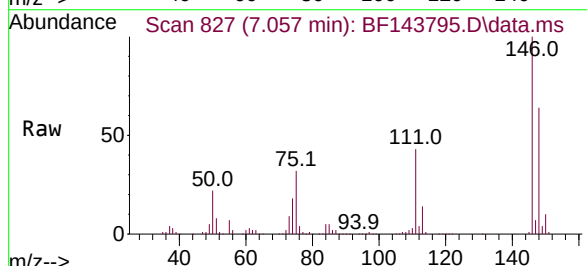
Tgt Ion:146 Resp: 328481

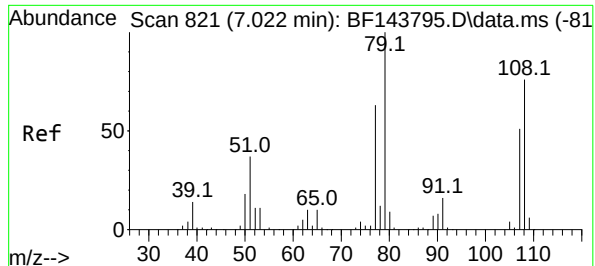
Ion Ratio Lower Upper

146 100

148 63.9 51.1 76.7

111 42.9 34.3 51.5





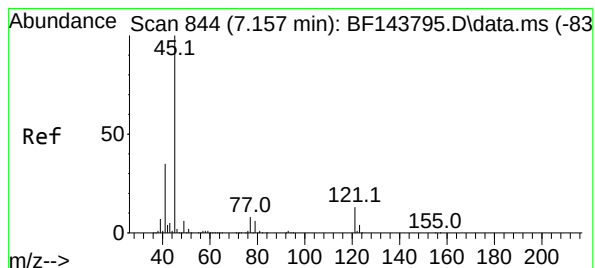
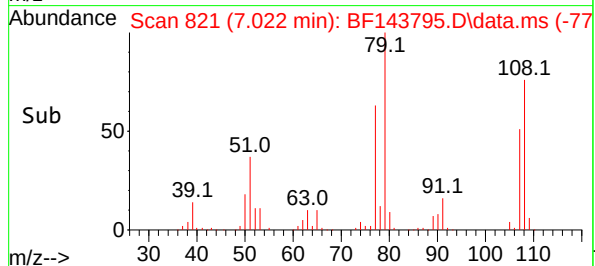
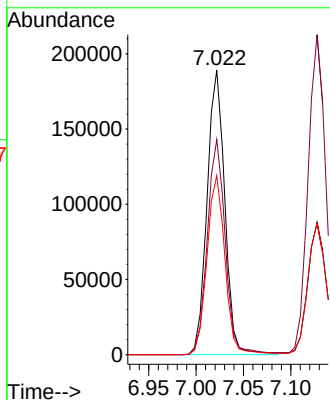
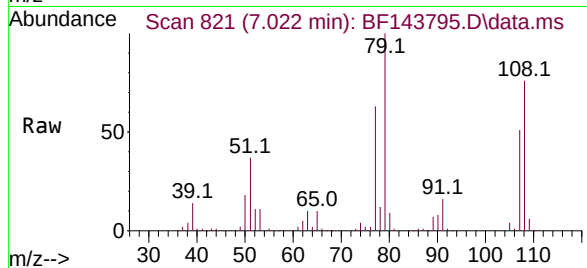
#15  
Benzyl Alcohol  
Concen: 42.340 ng  
RT: 7.022 min Scan# 821  
Delta R.T. -0.006 min  
Lab File: BF143795.D  
Acq: 23 Sep 2025 13:59

Instrument :  
BNA\_F  
Client SampleId :  
SSTDICCC040

Tgt Ion: 79 Resp: 246535  
Ion Ratio Lower Upper  
79 100  
108 75.6 60.5 90.7  
77 62.9 50.3 75.5

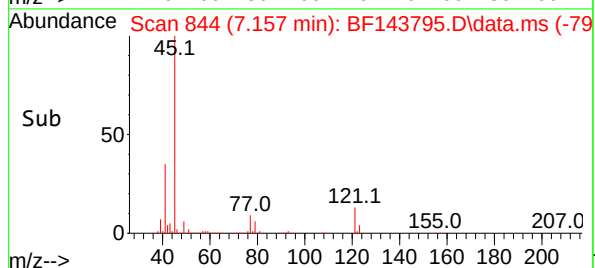
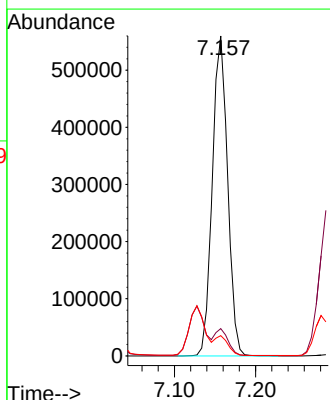
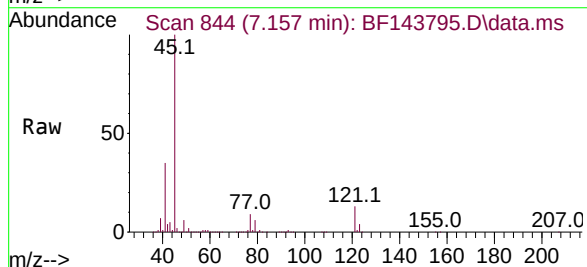
Manual Integrations  
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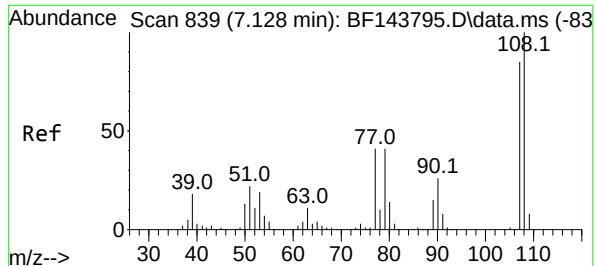
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#16  
2,2'-oxybis(1-Chloropropane)  
Concen: 42.058 ng  
RT: 7.157 min Scan# 844  
Delta R.T. 0.000 min  
Lab File: BF143795.D  
Acq: 23 Sep 2025 13:59

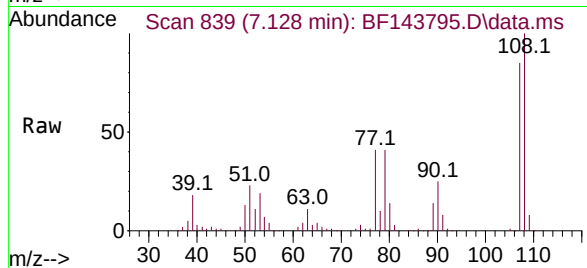
Tgt Ion: 45 Resp: 732266  
Ion Ratio Lower Upper  
45 100  
77 8.5 0.0 28.5  
79 6.3 0.0 26.3





#17  
2-Methylphenol  
Concen: 41.866 ng  
RT: 7.128 min Scan# 839  
Delta R.T. -0.006 min  
Lab File: BF143795.D  
Acq: 23 Sep 2025 13:59

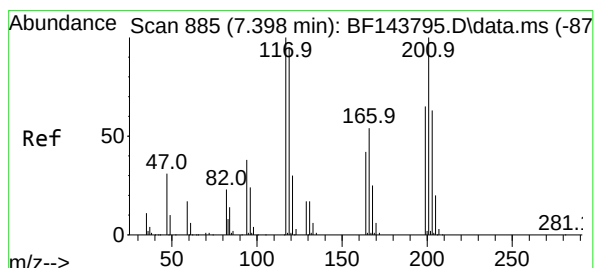
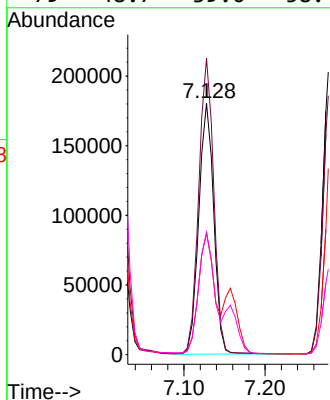
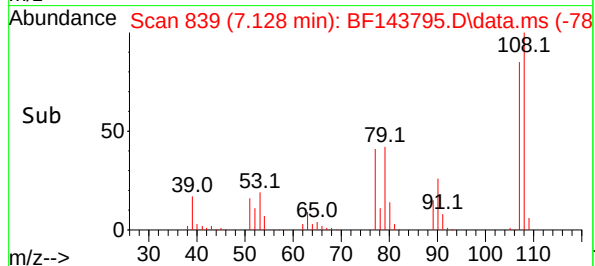
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICCC040



Tgt Ion:107 Resp: 231425  
Ion Ratio Lower Upper  
107 100  
108 117.8 94.2 141.4  
77 48.3 38.6 58.0  
79 48.7 39.0 58.4

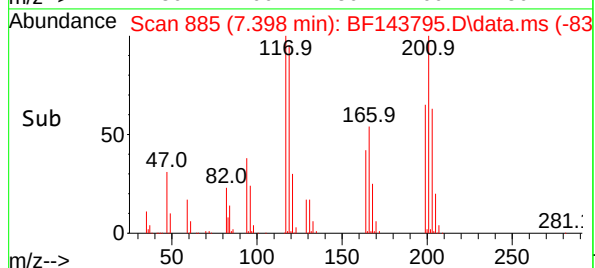
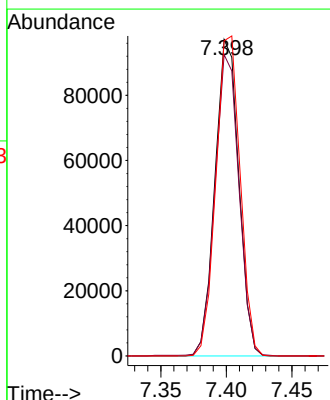
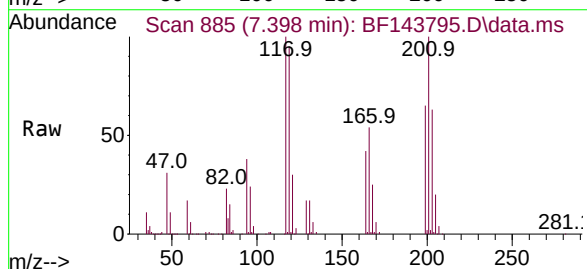
Manual Integrations  
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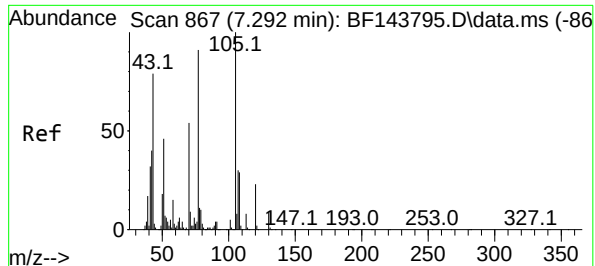
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#18  
Hexachloroethane  
Concen: 42.290 ng  
RT: 7.398 min Scan# 885  
Delta R.T. -0.006 min  
Lab File: BF143795.D  
Acq: 23 Sep 2025 13:59

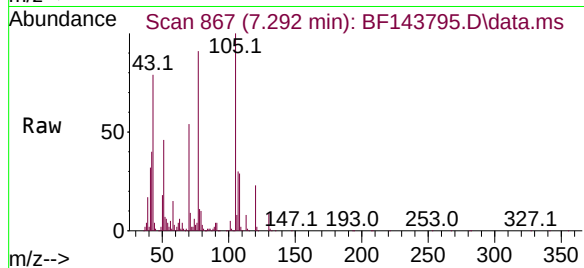
Tgt Ion:117 Resp: 123042  
Ion Ratio Lower Upper  
117 100  
119 95.2 76.2 114.2  
201 99.6 79.7 119.5





#19  
n-Nitroso-di-n-propylamine  
Concen: 39.992 ng  
RT: 7.292 min Scan# 867  
Delta R.T. -0.012 min  
Lab File: BF143795.D  
Acq: 23 Sep 2025 13:59

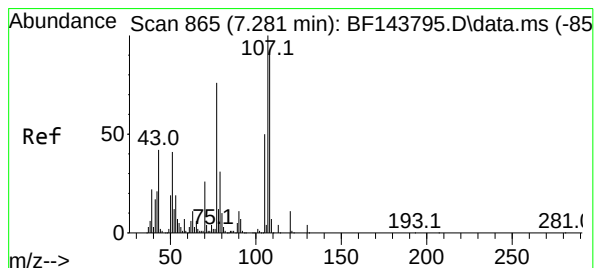
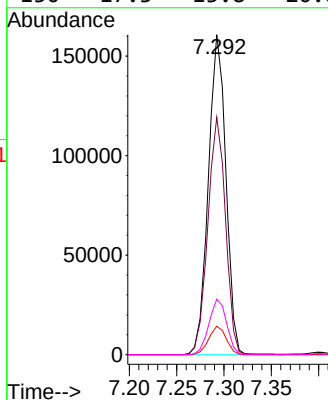
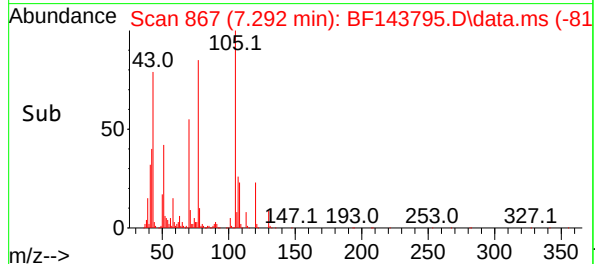
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICCC040



Tgt Ion: 70 Resp: 207240  
Ion Ratio Lower Upper  
70 100  
42 74.2 59.4 89.0  
101 8.9 7.1 10.7  
130 17.3 13.8 20.8

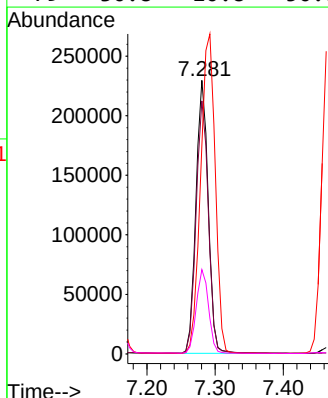
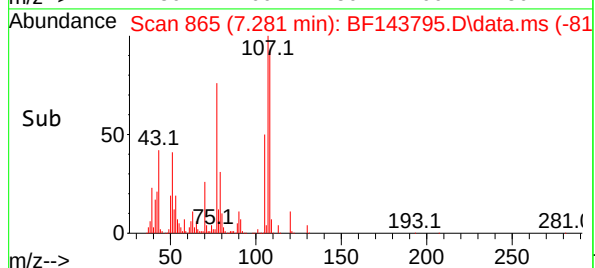
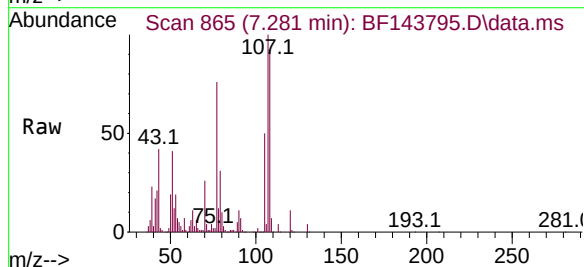
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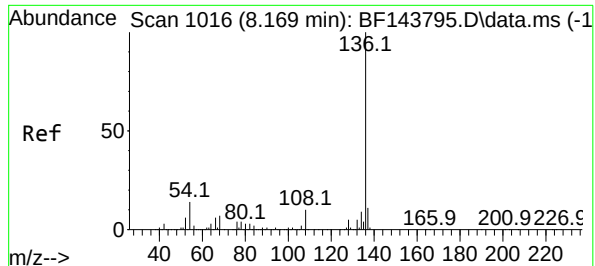
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#20  
3+4-Methylphenols  
Concen: 42.795 ng  
RT: 7.281 min Scan# 865  
Delta R.T. -0.006 min  
Lab File: BF143795.D  
Acq: 23 Sep 2025 13:59

Tgt Ion:107 Resp: 288081  
Ion Ratio Lower Upper  
107 100  
108 92.5 72.5 112.5  
77 76.2 56.2 96.2  
79 30.8 10.8 50.8





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.169 min Scan# 1016

Delta R.T. -0.000 min

Lab File: BF143795.D

Acq: 23 Sep 2025 13:59

Instrument :

BNA\_F

ClientSampleId :

SSTDICCC040

Tgt Ion:136 Resp: 405913

Ion Ratio Lower Upper

136 100

137 11.2 9.0 13.4

54 14.0 11.2 16.8

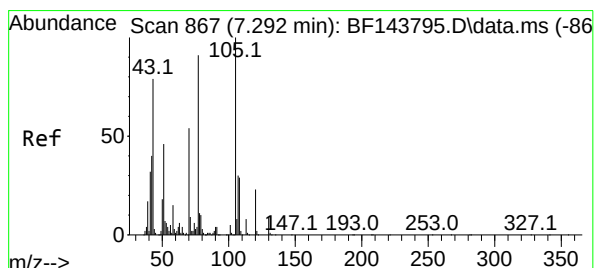
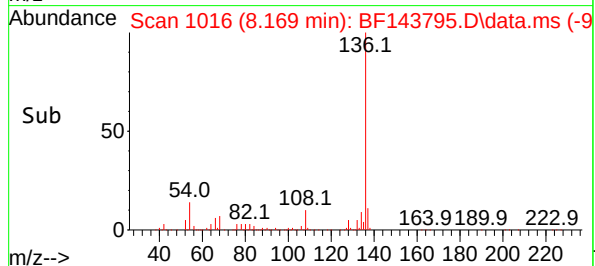
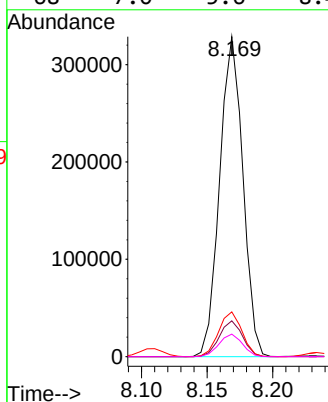
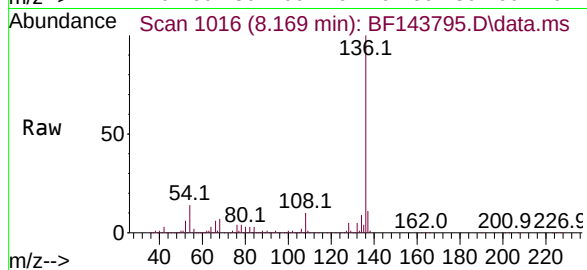
68 7.0 5.6 8.4

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Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#22

Acetophenone

Concen: 42.128 ng

RT: 7.292 min Scan# 867

Delta R.T. -0.006 min

Lab File: BF143795.D

Acq: 23 Sep 2025 13:59

Tgt Ion:105 Resp: 375588

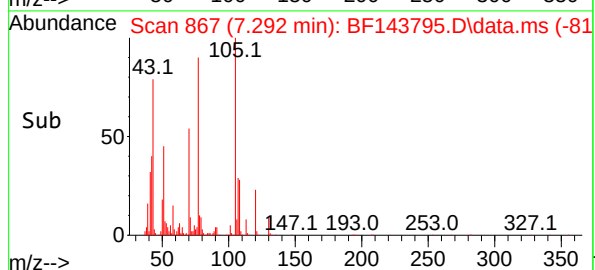
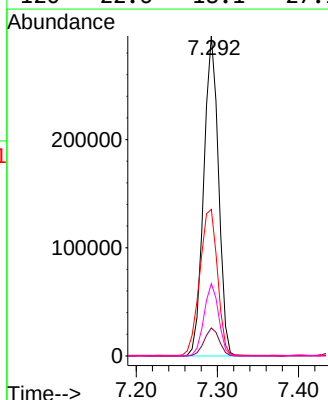
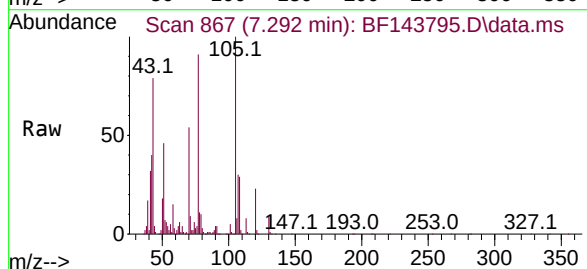
Ion Ratio Lower Upper

105 100

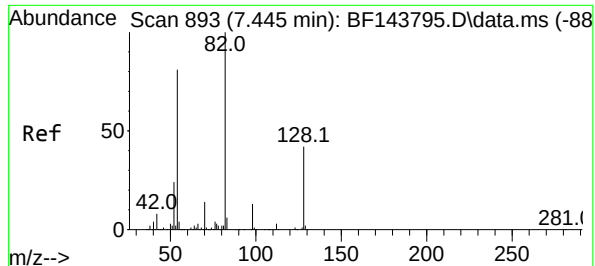
71 8.7 7.0 10.4

51 45.8 36.6 55.0

120 22.6 18.1 27.1







#23

Nitrobenzene-d5

Concen: 88.897 ng

RT: 7.445 min Scan# 893

Delta R.T. -0.006 min

Lab File: BF143795.D

Acq: 23 Sep 2025 13:59

Instrument :

BNA\_F

ClientSampleId :

SSTDICCC040

Tgt Ion: 82 Resp: 573383

Ion Ratio Lower Upper

82 100

128 41.6 33.3 49.9

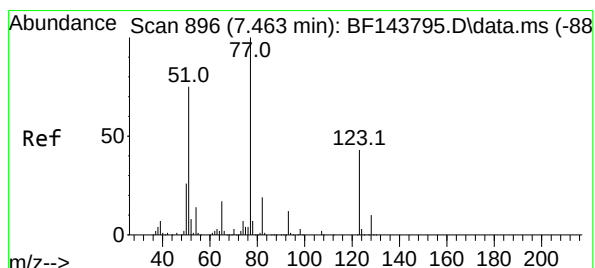
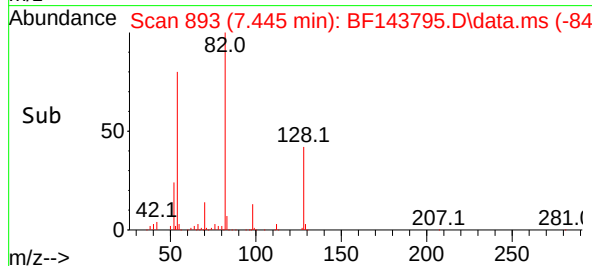
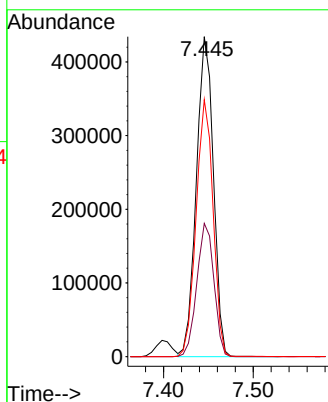
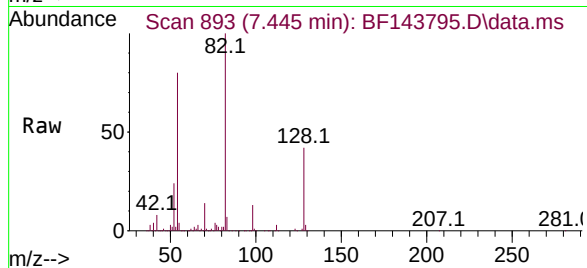
54 80.3 64.2 96.4

Manual Integrations

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Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#24

Nitrobenzene

Concen: 42.939 ng

RT: 7.463 min Scan# 896

Delta R.T. -0.012 min

Lab File: BF143795.D

Acq: 23 Sep 2025 13:59

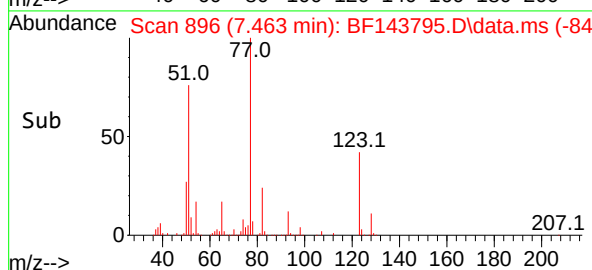
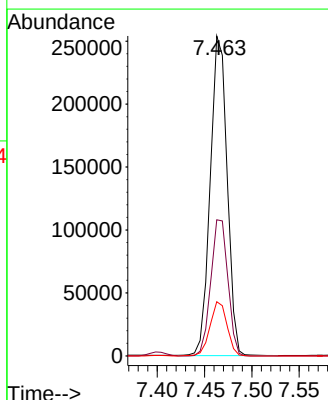
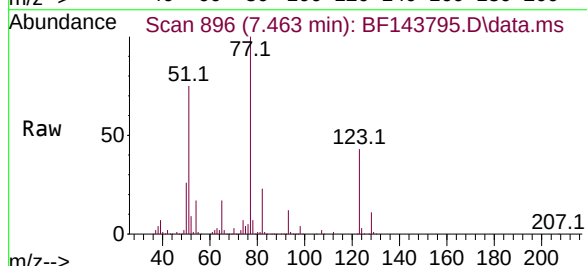
Tgt Ion: 77 Resp: 315613

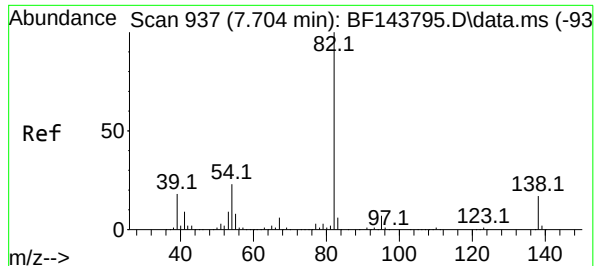
Ion Ratio Lower Upper

77 100

123 42.5 34.0 51.0

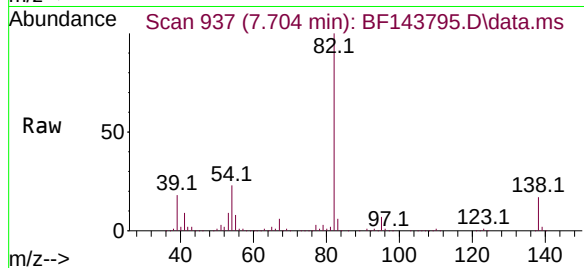
65 16.9 13.5 20.3





#25  
Isophorone  
Concen: 42.269 ng  
RT: 7.704 min Scan# 937  
Delta R.T. -0.006 min  
Lab File: BF143795.D  
Acq: 23 Sep 2025 13:59

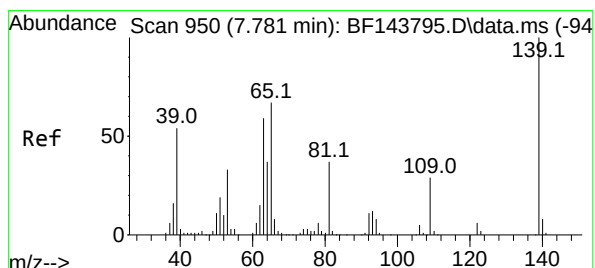
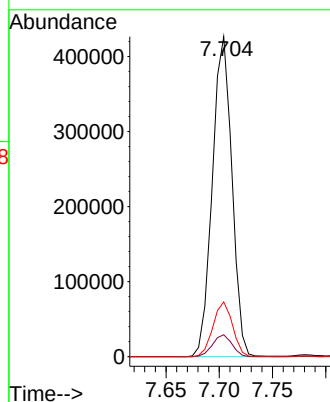
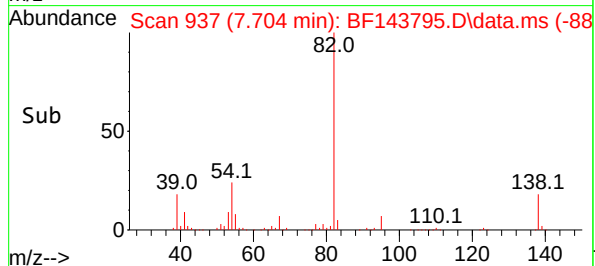
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICCC040



Tgt Ion: 82 Resp: 546218  
Ion Ratio Lower Upper  
82 100  
95 6.8 5.4 8.2  
138 17.1 13.7 20.5

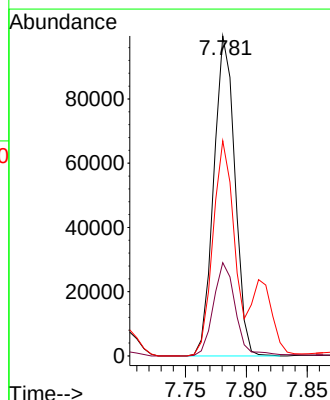
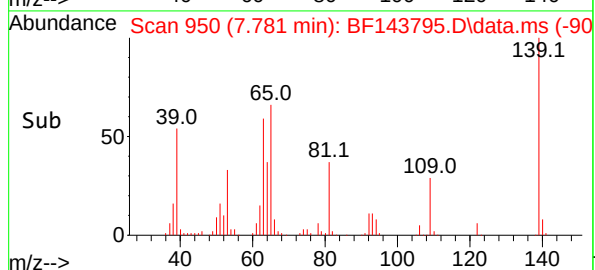
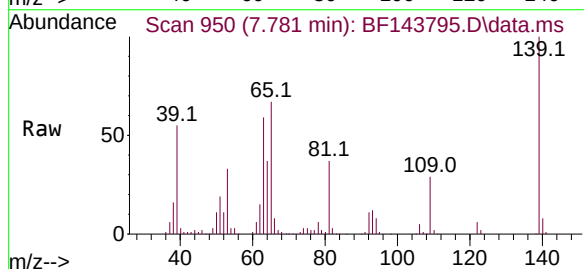
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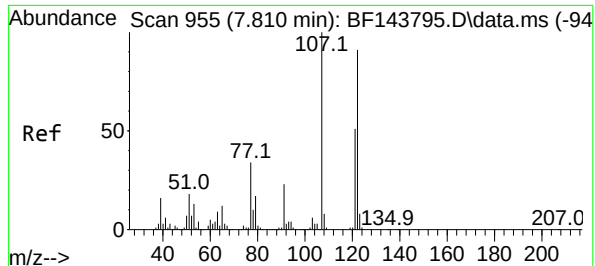
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#26  
2-Nitrophenol  
Concen: 40.347 ng  
RT: 7.781 min Scan# 950  
Delta R.T. -0.005 min  
Lab File: BF143795.D  
Acq: 23 Sep 2025 13:59

Tgt Ion:139 Resp: 120369  
Ion Ratio Lower Upper  
139 100  
109 29.1 23.3 34.9  
65 67.2 53.8 80.6





#27

2,4-Dimethylphenol

Concen: 42.648 ng

RT: 7.810 min Scan# 91

Delta R.T. -0.006 min

Lab File: BF143795.D

Acq: 23 Sep 2025 13:59

Instrument :

BNA\_F

ClientSampleId :

SSTDICCC040

Tgt Ion:122 Resp: 246324

Ion Ratio Lower Upper

122 100

107 109.4 87.5 131.3

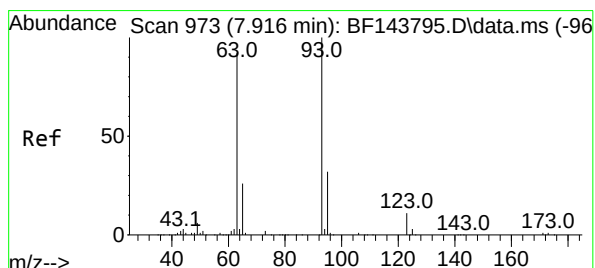
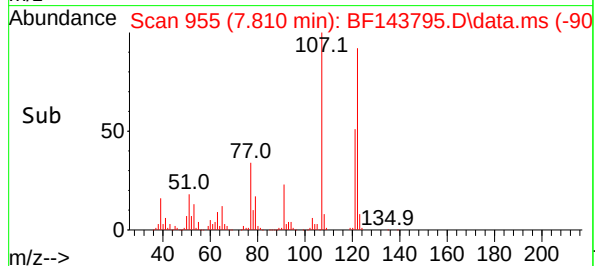
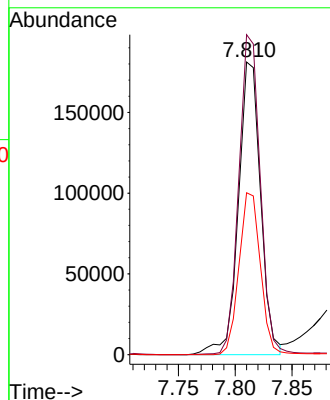
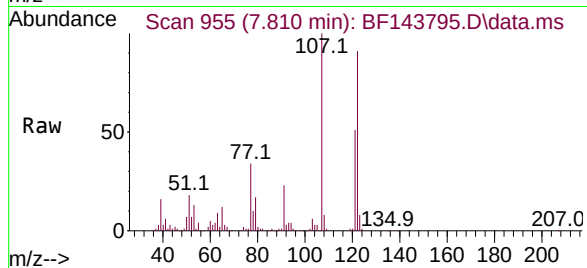
121 55.3 44.2 66.4

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Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#28

bis(2-Chloroethoxy)methane

Concen: 42.213 ng

RT: 7.916 min Scan# 973

Delta R.T. 0.000 min

Lab File: BF143795.D

Acq: 23 Sep 2025 13:59

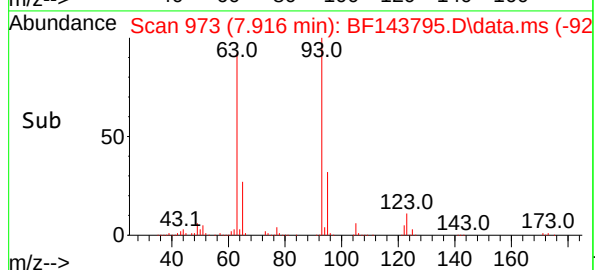
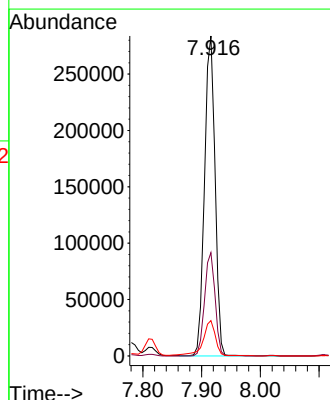
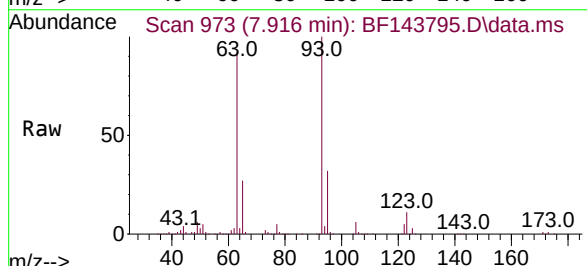
Tgt Ion: 93 Resp: 354402

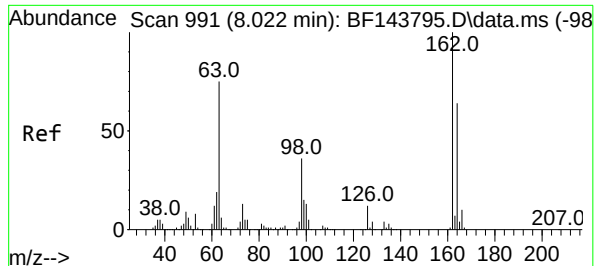
Ion Ratio Lower Upper

93 100

95 32.3 25.8 38.8

123 11.0 8.8 13.2





#29

2,4-Dichlorophenol

Concen: 42.587 ng

RT: 8.022 min Scan# 991

Delta R.T. 0.000 min

Lab File: BF143795.D

Acq: 23 Sep 2025 13:59

Instrument :

BNA\_F

ClientSampleId :

SSTDICCC040

Tgt Ion:162 Resp: 242031

Ion Ratio Lower Upper

162 100

164 64.1 44.1 84.1

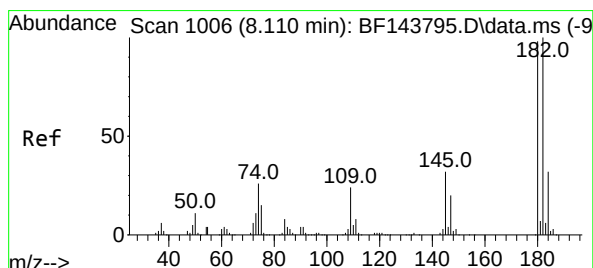
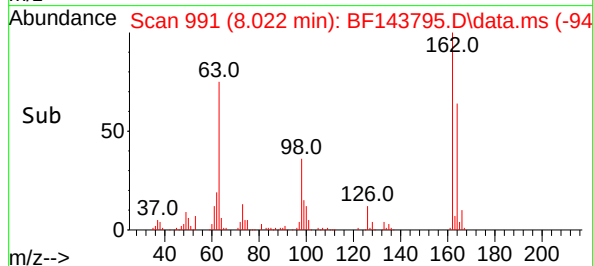
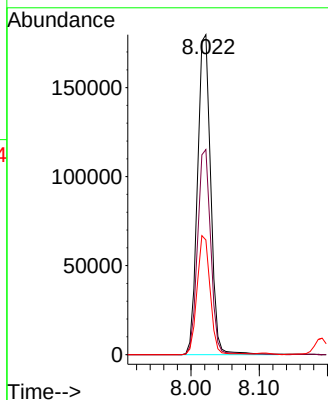
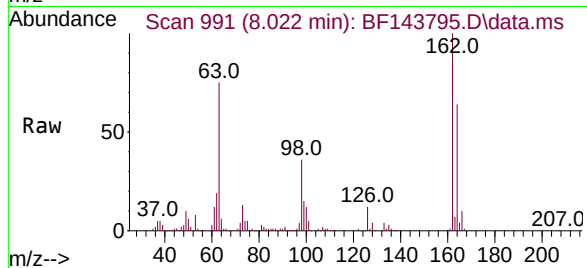
98 35.8 15.8 55.8

Manual Integrations

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Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#30

1,2,4-Trichlorobenzene

Concen: 42.554 ng

RT: 8.110 min Scan# 1006

Delta R.T. 0.000 min

Lab File: BF143795.D

Acq: 23 Sep 2025 13:59

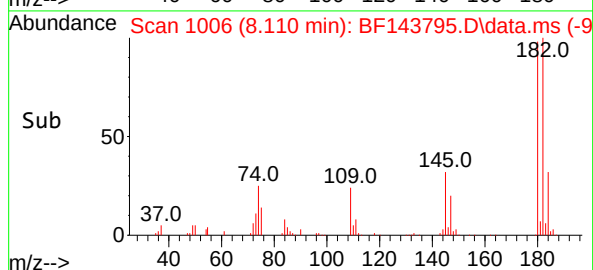
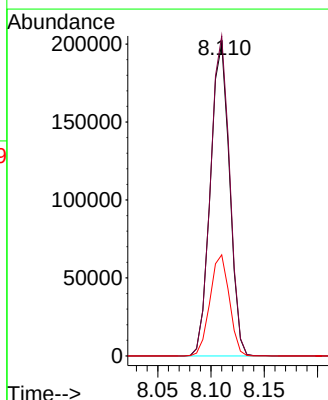
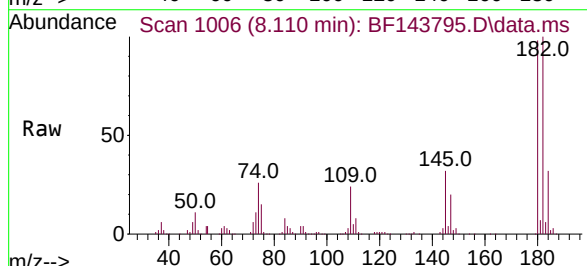
Tgt Ion:180 Resp: 250976

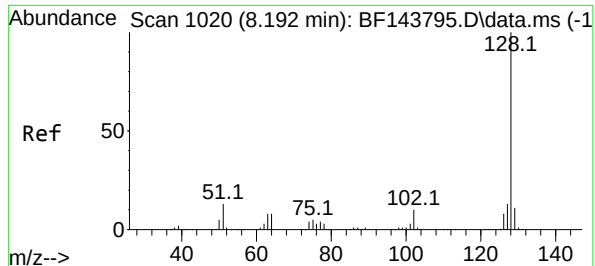
Ion Ratio Lower Upper

180 100

182 102.5 82.0 123.0

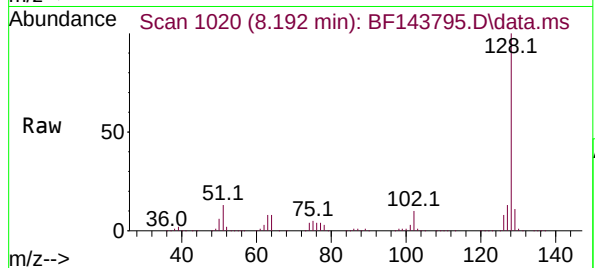
145 32.4 25.9 38.9





#31  
Naphthalene  
Concen: 41.894 ng  
RT: 8.192 min Scan# 1020  
Delta R.T. 0.000 min  
Lab File: BF143795.D  
Acq: 23 Sep 2025 13:59

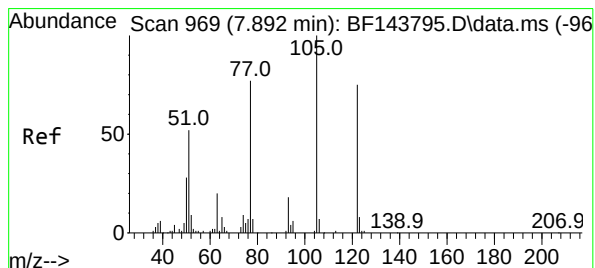
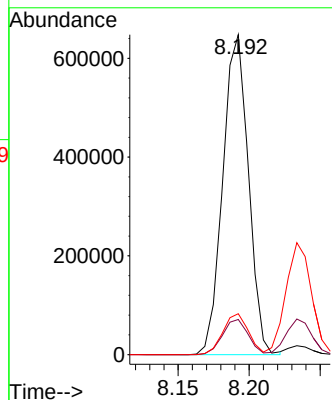
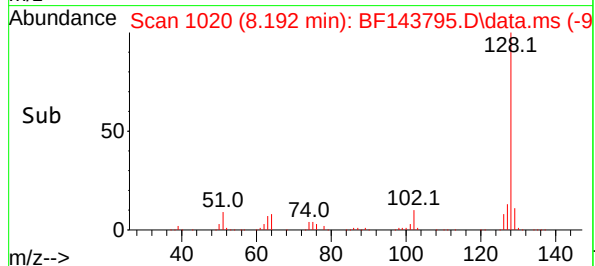
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICCC040



Tgt Ion:128 Resp: 814068  
Ion Ratio Lower Upper  
128 100  
129 11.0 8.8 13.2  
127 12.8 10.2 15.4

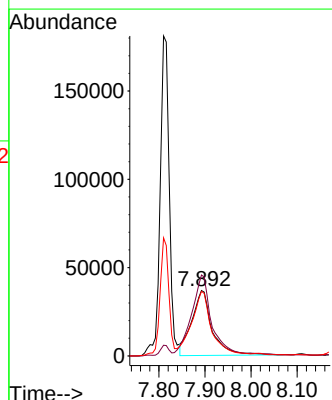
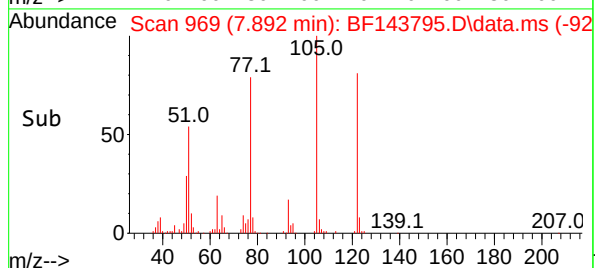
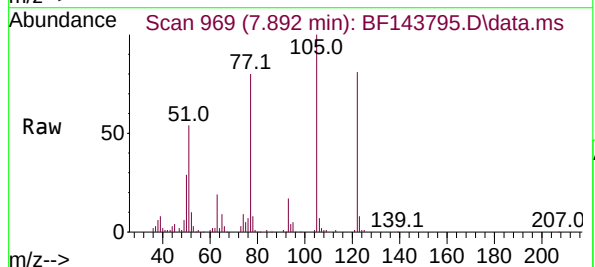
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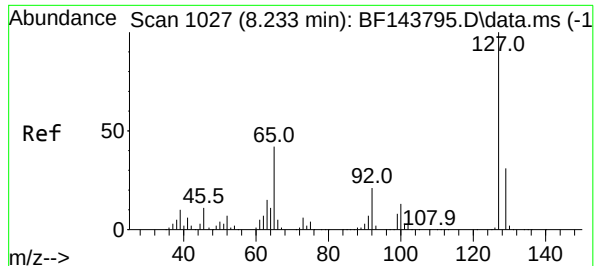
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#32  
Benzoic acid  
Concen: 40.921 ng  
RT: 7.892 min Scan# 969  
Delta R.T. -0.029 min  
Lab File: BF143795.D  
Acq: 23 Sep 2025 13:59

Tgt Ion:122 Resp: 114033  
Ion Ratio Lower Upper  
122 100  
105 123.7 103.7 143.7  
77 98.8 78.8 118.8





#33

4-Chloroaniline

Concen: 42.217 ng

RT: 8.233 min Scan# 1027

Delta R.T. -0.006 min

Lab File: BF143795.D

Acq: 23 Sep 2025 13:59

Instrument :

BNA\_F

ClientSampleId :

SSTDICCC040

Tgt Ion:127 Resp: 288280

Ion Ratio Lower Upper

127 100

129 31.8 25.4 38.2

65 41.8 33.4 50.2

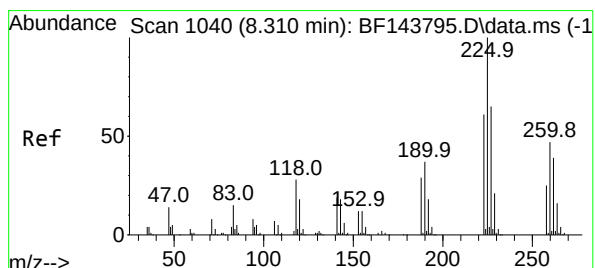
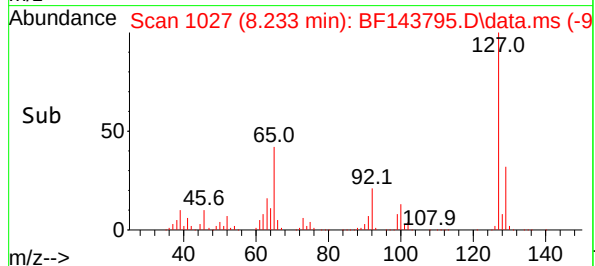
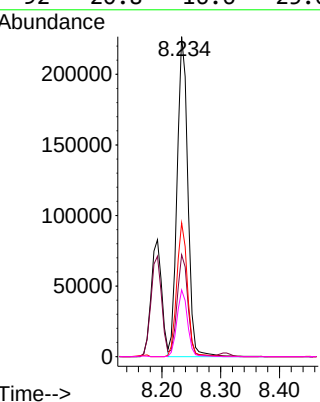
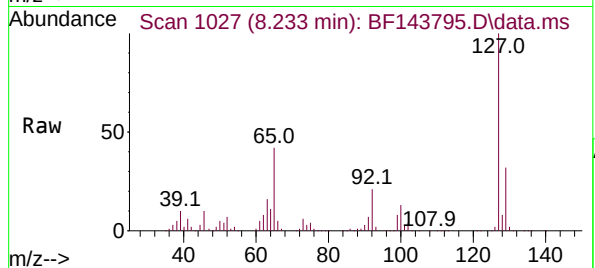
92 20.8 16.6 25.0

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Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#34

Hexachlorobutadiene

Concen: 42.957 ng

RT: 8.310 min Scan# 1040

Delta R.T. 0.000 min

Lab File: BF143795.D

Acq: 23 Sep 2025 13:59

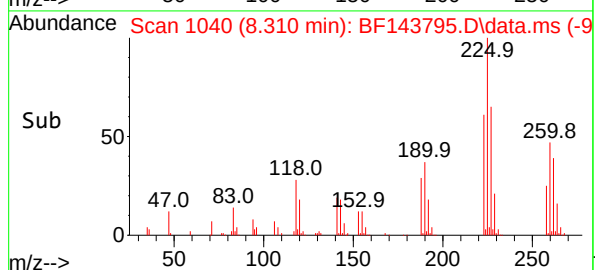
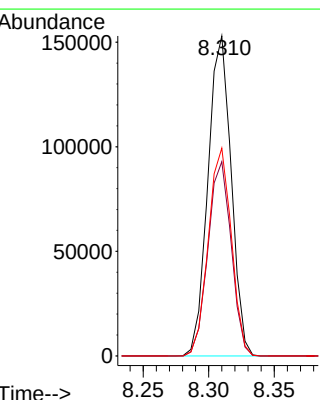
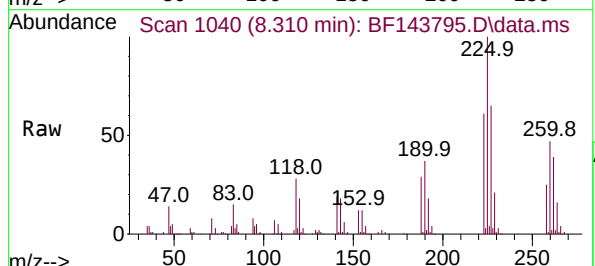
Tgt Ion:225 Resp: 188867

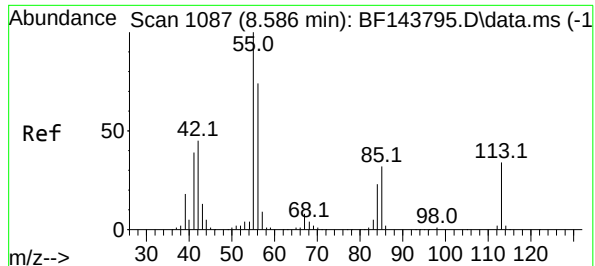
Ion Ratio Lower Upper

225 100

223 60.7 48.6 72.8

227 64.9 51.9 77.9





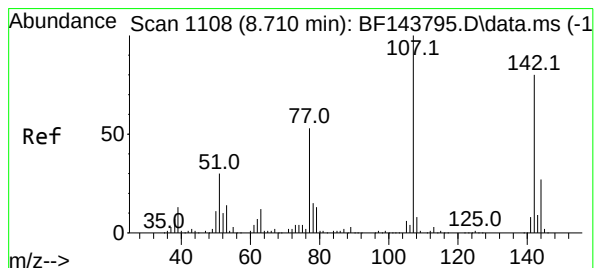
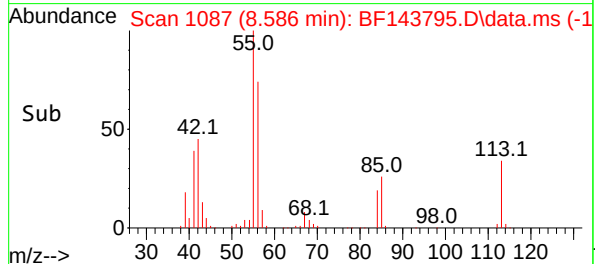
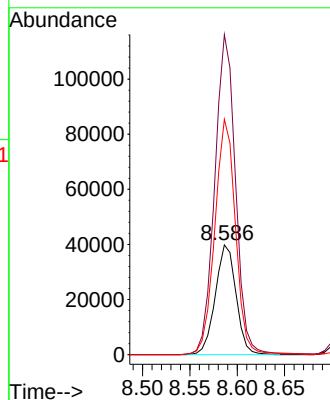
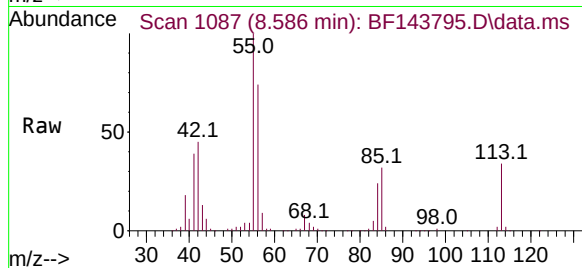
#35  
Caprolactam  
Concen: 41.712 ng  
RT: 8.586 min Scan# 1087  
Delta R.T. -0.024 min  
Lab File: BF143795.D  
Acq: 23 Sep 2025 13:59

Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICCC040

Tgt Ion:113 Resp: 60592  
Ion Ratio Lower Upper  
113 100  
55 291.7 271.7 311.7  
56 214.5 194.5 234.5

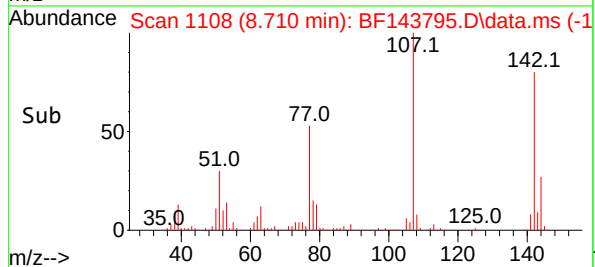
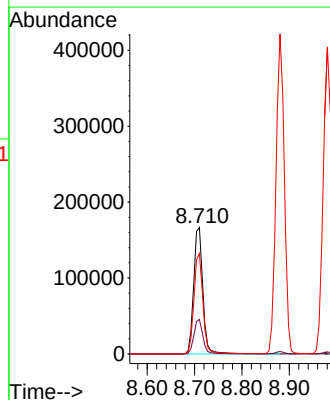
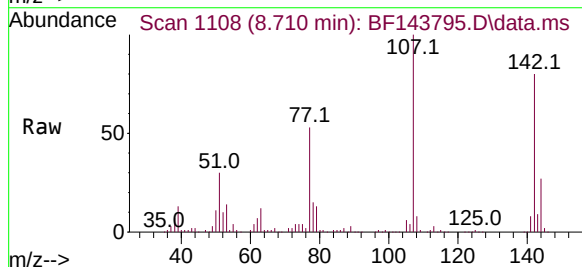
Manual Integrations  
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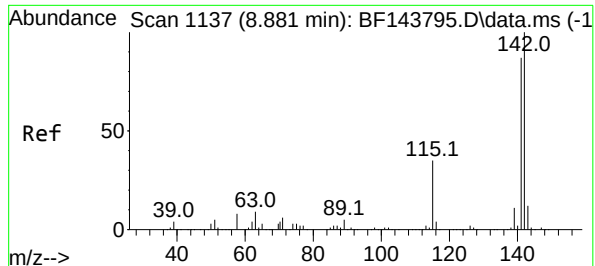
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#36  
4-Chloro-3-methylphenol  
Concen: 42.051 ng  
RT: 8.710 min Scan# 1108  
Delta R.T. 0.000 min  
Lab File: BF143795.D  
Acq: 23 Sep 2025 13:59

Tgt Ion:107 Resp: 224136  
Ion Ratio Lower Upper  
107 100  
144 27.3 21.8 32.8  
142 79.5 63.6 95.4





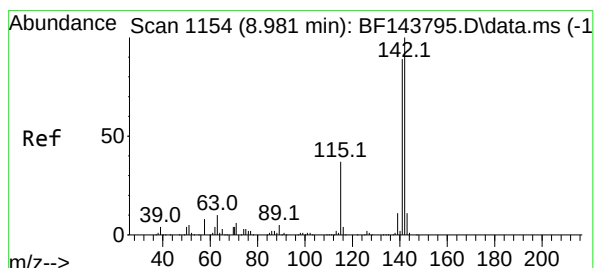
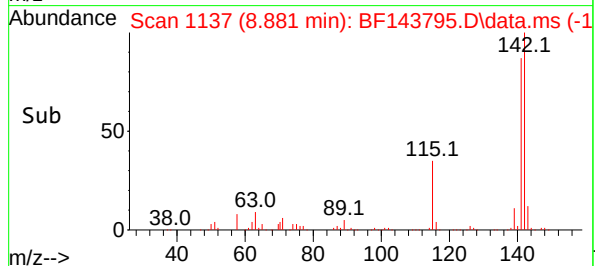
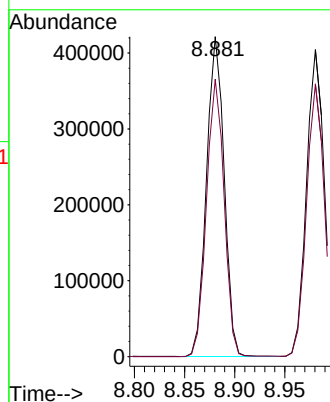
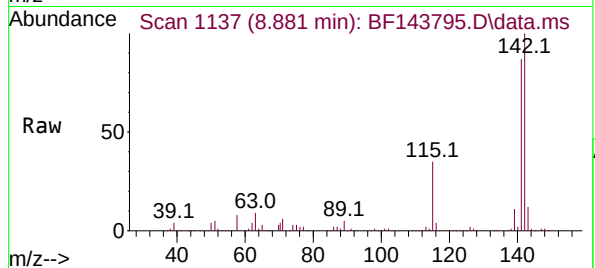
#37  
2-Methylnaphthalene  
Concen: 41.614 ng  
RT: 8.881 min Scan# 1137  
Delta R.T. 0.000 min  
Lab File: BF143795.D  
Acq: 23 Sep 2025 13:59

Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICCC040

Tgt Ion:142 Resp: 515616  
Ion Ratio Lower Upper  
142 100  
141 86.7 69.4 104.0

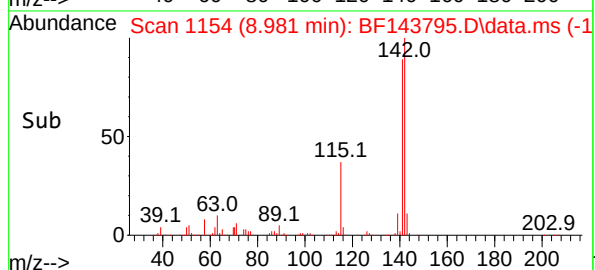
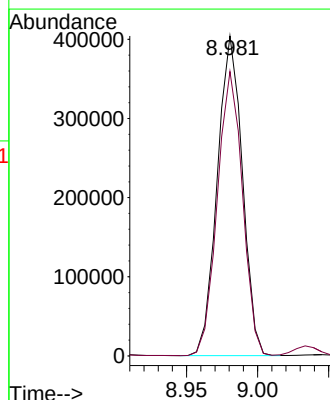
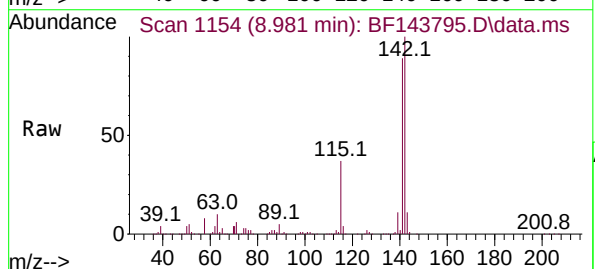
Manual Integrations  
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Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025

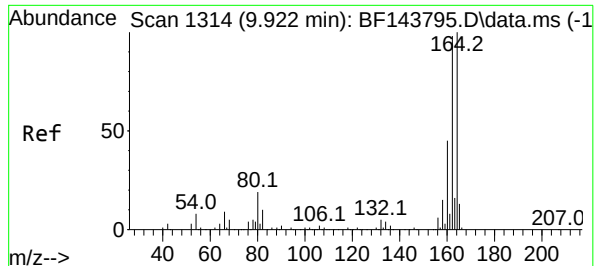


#38  
1-Methylnaphthalene  
Concen: 41.901 ng  
RT: 8.981 min Scan# 1154  
Delta R.T. 0.000 min  
Lab File: BF143795.D  
Acq: 23 Sep 2025 13:59

Tgt Ion:142 Resp: 496939  
Ion Ratio Lower Upper  
142 100  
141 88.9 71.1 106.7

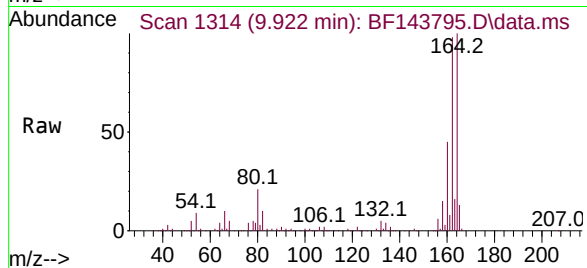






#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.922 min Scan# 1314  
Delta R.T. -0.006 min  
Lab File: BF143795.D  
Acq: 23 Sep 2025 13:59

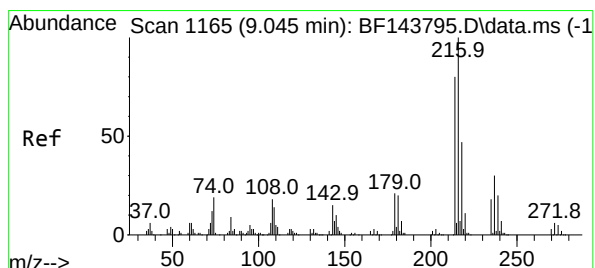
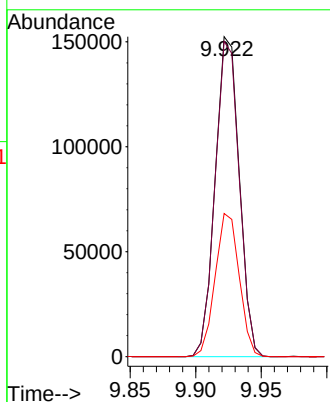
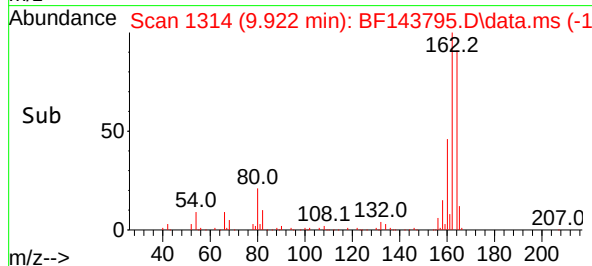
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICCC040



Tgt Ion:164 Resp: 195472  
Ion Ratio Lower Upper  
164 100  
162 98.5 78.8 118.2  
160 44.7 35.8 53.6

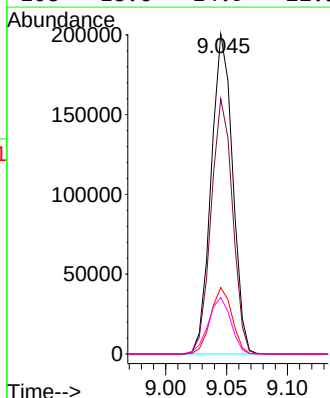
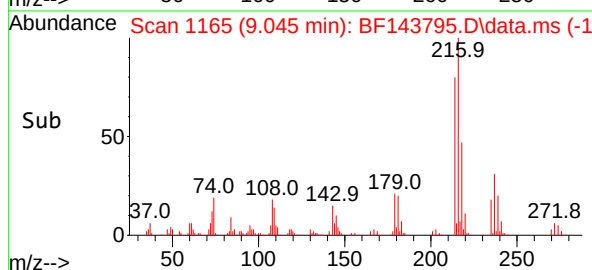
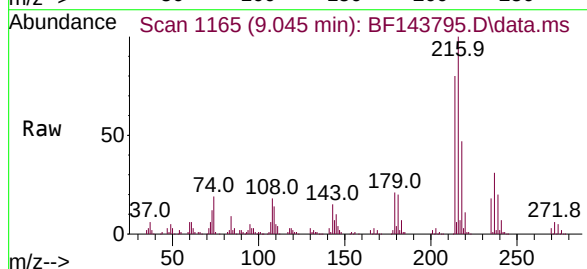
Manual Integrations  
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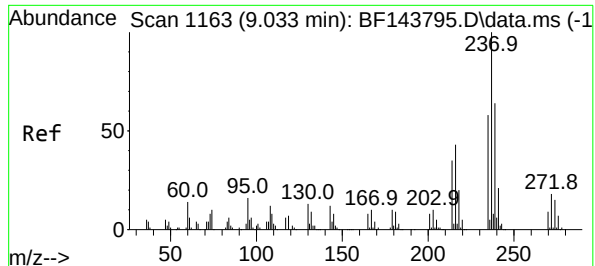
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#40  
1,2,4,5-Tetrachlorobenzene  
Concen: 41.605 ng  
RT: 9.045 min Scan# 1165  
Delta R.T. -0.006 min  
Lab File: BF143795.D  
Acq: 23 Sep 2025 13:59

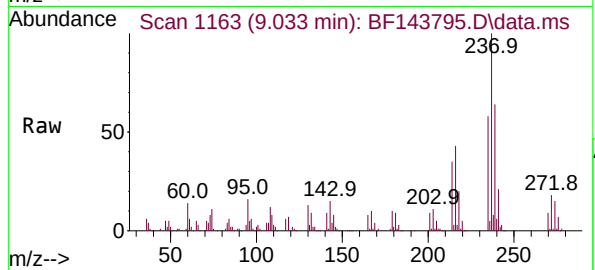
Tgt Ion:216 Resp: 245432  
Ion Ratio Lower Upper  
216 100  
214 79.6 63.7 95.5  
179 20.6 16.5 24.7  
108 18.6 14.9 22.3





#41  
Hexachlorocyclopentadiene  
Concen: 43.733 ng  
RT: 9.033 min Scan# 1163  
Delta R.T. -0.006 min  
Lab File: BF143795.D  
Acq: 23 Sep 2025 13:59

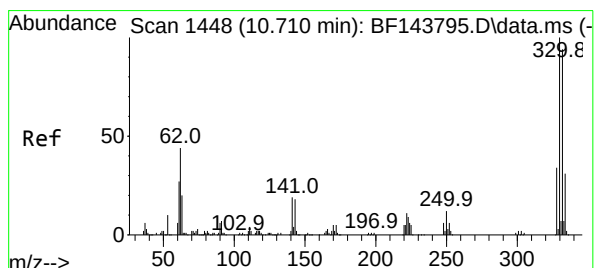
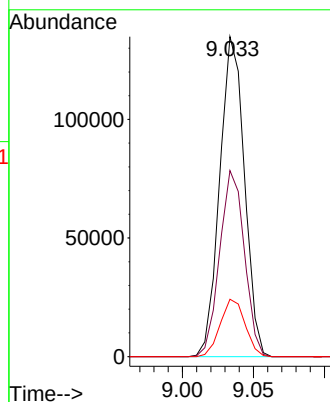
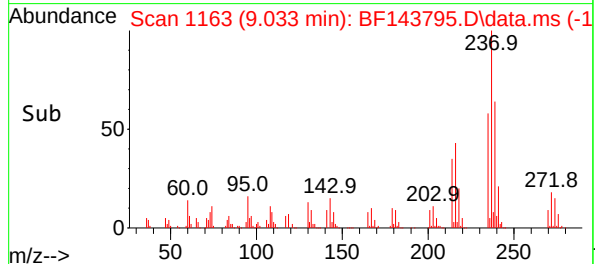
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICCC040



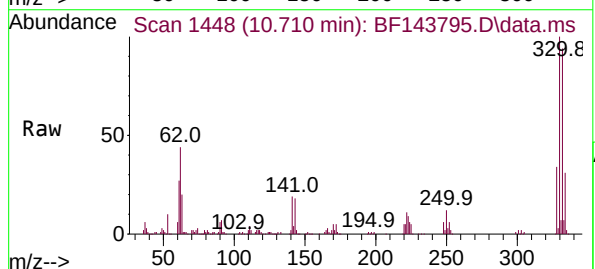
Tgt Ion:237 Resp: 163505  
Ion Ratio Lower Upper  
237 100  
235 58.1 38.1 78.1  
272 17.9 0.0 37.9

Manual Integrations  
APPROVED

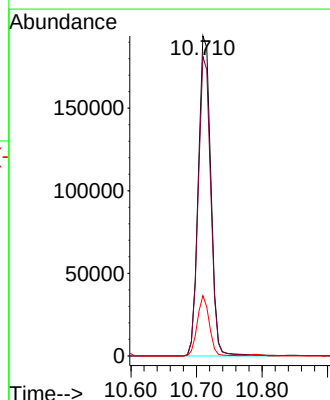
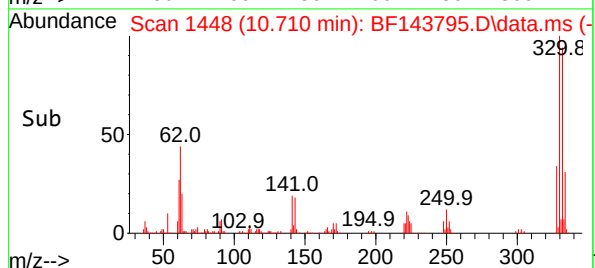
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025

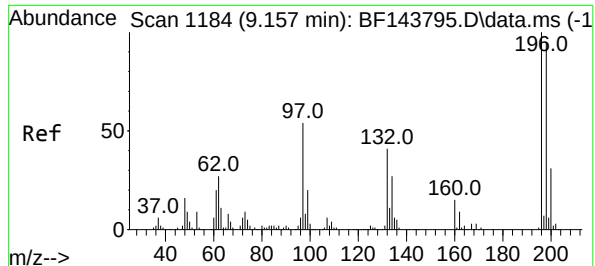


#42  
2,4,6-Tribromophenol  
Concen: 91.848 ng  
RT: 10.710 min Scan# 1448  
Delta R.T. -0.006 min  
Lab File: BF143795.D  
Acq: 23 Sep 2025 13:59



Tgt Ion:330 Resp: 256232  
Ion Ratio Lower Upper  
330 100  
332 93.4 74.7 112.1  
141 17.9 14.3 21.5





#43

2,4,6-Trichlorophenol

Concen: 44.620 ng

RT: 9.157 min Scan# 1184

Delta R.T. 0.000 min

Lab File: BF143795.D

Acq: 23 Sep 2025 13:59

Instrument :

BNA\_F

ClientSampleId :

SSTDICCC040

Tgt Ion:196 Resp: 164818

Ion Ratio Lower Upper

196 100

198 95.2 76.2 114.2

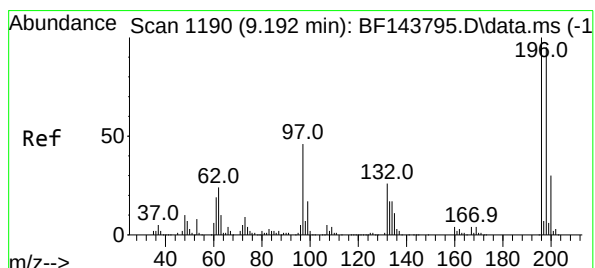
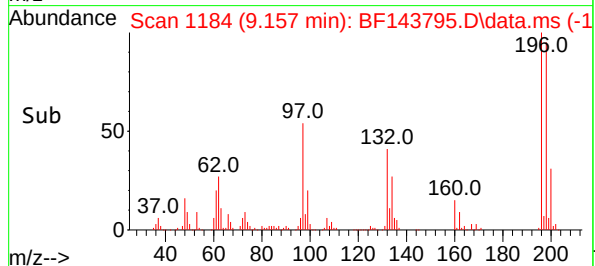
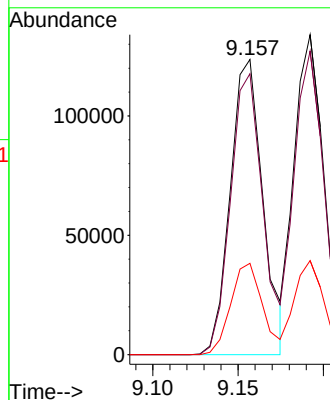
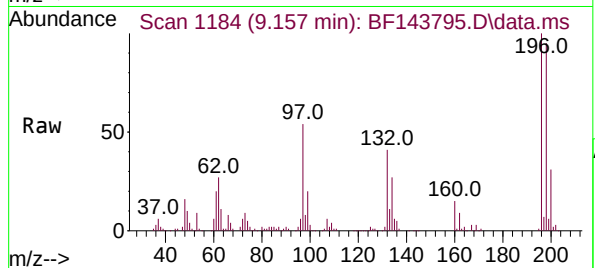
200 30.9 24.7 37.1

Manual Integrations

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Supervised By :Jagrut Upadhyay 09/24/2025



#44

2,4,5-Trichlorophenol

Concen: 42.801 ng

RT: 9.192 min Scan# 1190

Delta R.T. 0.000 min

Lab File: BF143795.D

Acq: 23 Sep 2025 13:59

Tgt Ion:196 Resp: 165369

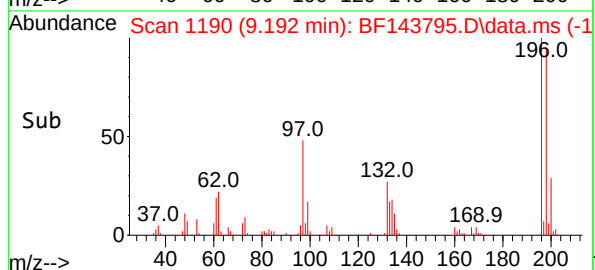
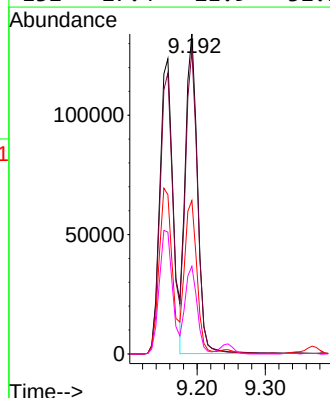
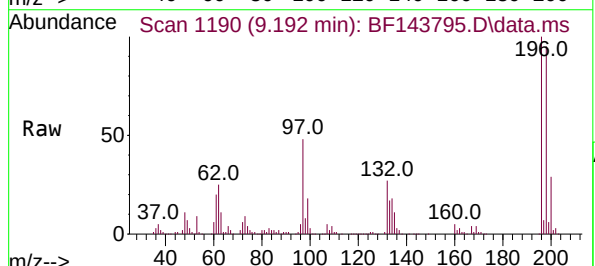
Ion Ratio Lower Upper

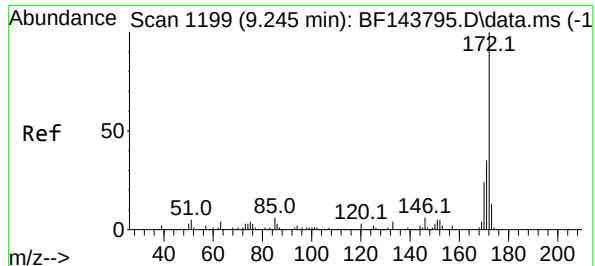
196 100

198 94.9 75.9 113.9

97 47.9 38.3 57.5

132 27.4 21.9 32.9





#45

2-Fluorobiphenyl

Concen: 79.854 ng

RT: 9.245 min Scan# 1199

Delta R.T. 0.000 min

Lab File: BF143795.D

Acq: 23 Sep 2025 13:59

Instrument :

BNA\_F

ClientSampleId :

SSTDICCC040

Tgt Ion:172 Resp: 1056299

Ion Ratio Lower Upper

172 100

171 34.9 27.9 41.9

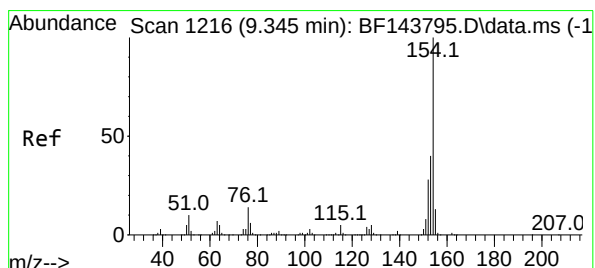
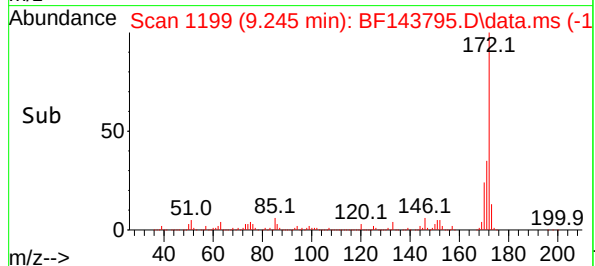
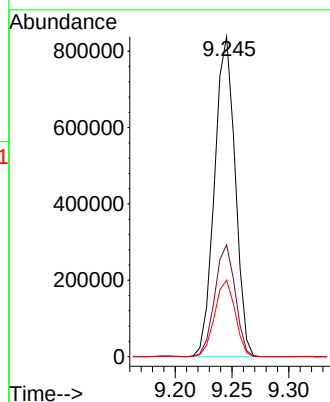
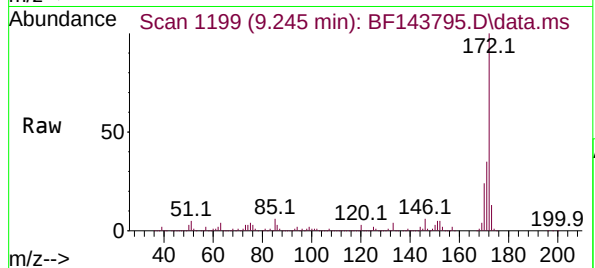
170 23.9 19.1 28.7

Manual Integrations

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Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#46

1,1'-Biphenyl

Concen: 41.309 ng

RT: 9.345 min Scan# 1216

Delta R.T. 0.000 min

Lab File: BF143795.D

Acq: 23 Sep 2025 13:59

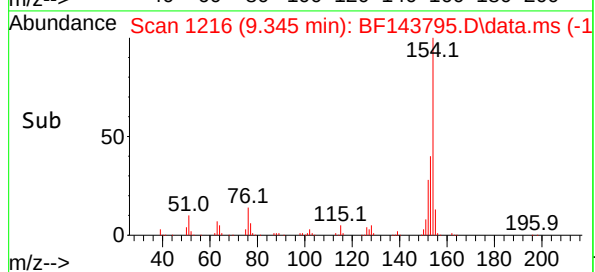
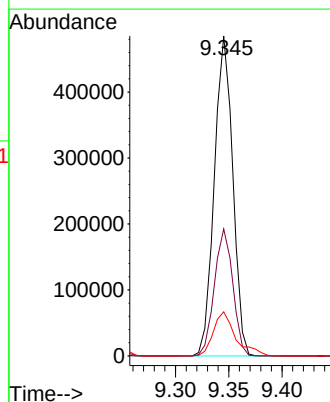
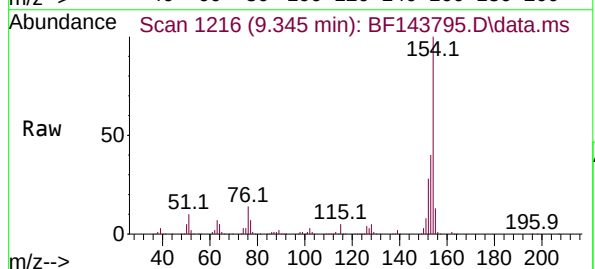
Tgt Ion:154 Resp: 584522

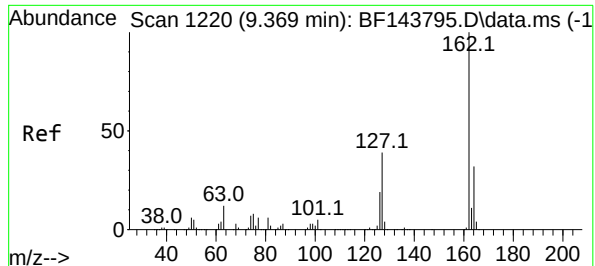
Ion Ratio Lower Upper

154 100

153 39.7 19.7 59.7

76 13.8 0.0 33.8





#47

2-Chloronaphthalene

Concen: 41.694 ng

RT: 9.369 min Scan# 1220

Delta R.T. -0.006 min

Lab File: BF143795.D

Acq: 23 Sep 2025 13:59

Instrument :

BNA\_F

ClientSampleId :

SSTDICCC040

Tgt Ion:162 Resp: 474899

Ion Ratio Lower Upper

162 100

127 39.4 31.5 47.3

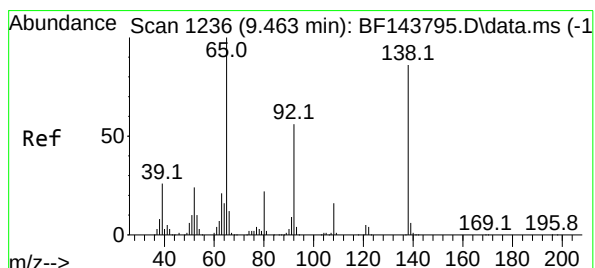
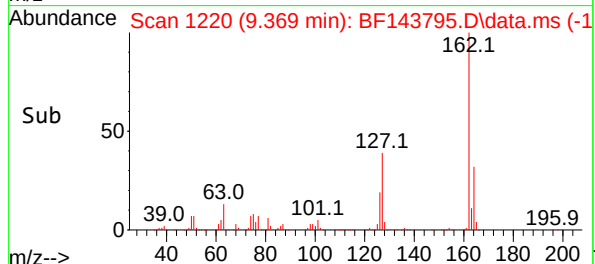
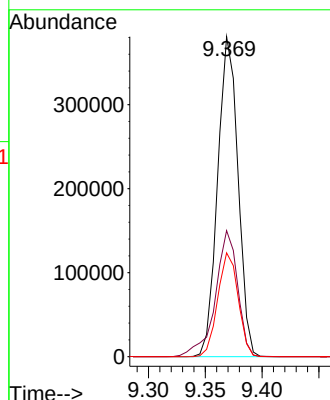
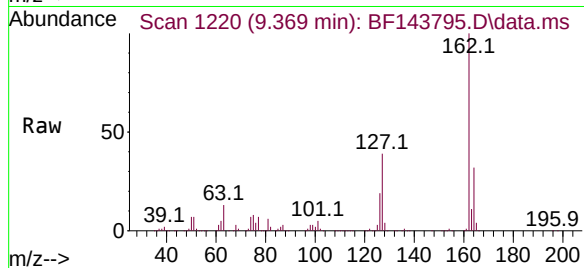
164 32.4 25.9 38.9

Manual Integrations

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Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#48

2-Nitroaniline

Concen: 45.383 ng

RT: 9.463 min Scan# 1236

Delta R.T. 0.000 min

Lab File: BF143795.D

Acq: 23 Sep 2025 13:59

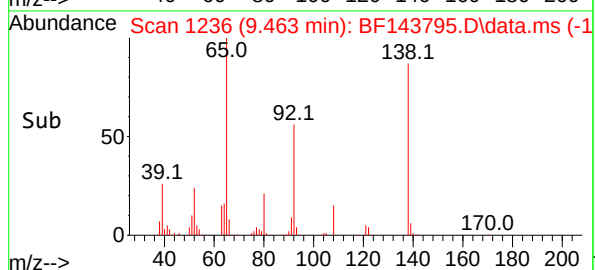
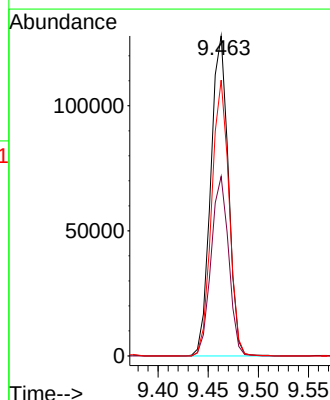
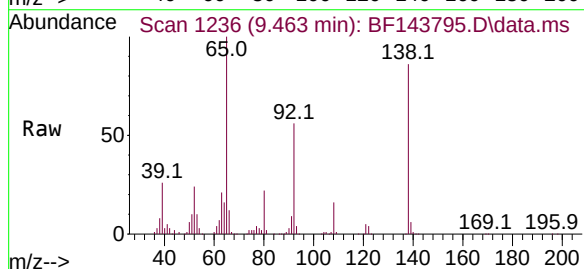
Tgt Ion: 65 Resp: 156231

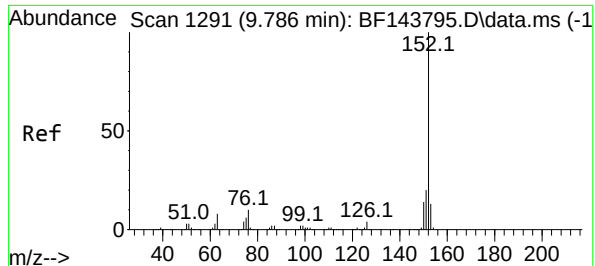
Ion Ratio Lower Upper

65 100

92 56.1 44.9 67.3

138 86.2 69.0 103.4





#49

Acenaphthylene

Concen: 42.150 ng

RT: 9.786 min Scan# 1291

Delta R.T. 0.000 min

Lab File: BF143795.D

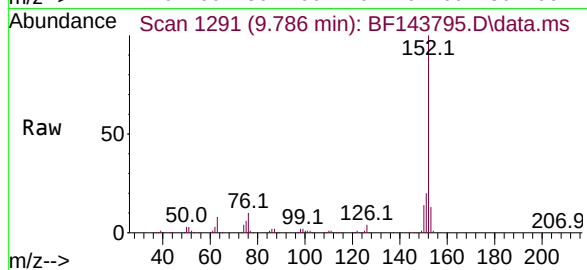
Acq: 23 Sep 2025 13:59

Instrument :

BNA\_F

ClientSampleId :

SSTDICCC040



Tgt Ion:152 Resp: 660923

Ion Ratio Lower Upper

152 100

151 19.6 15.7 23.5

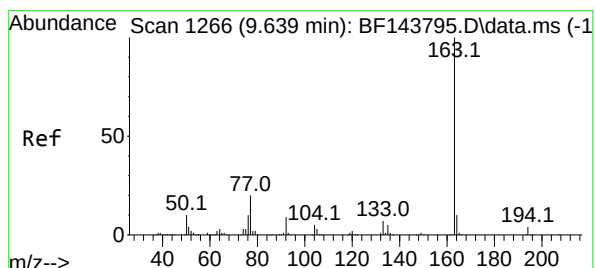
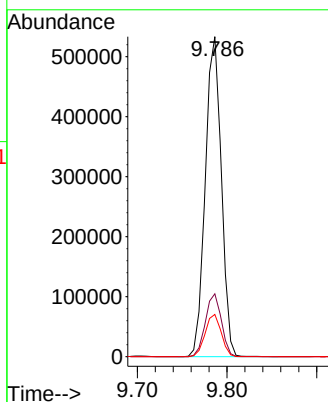
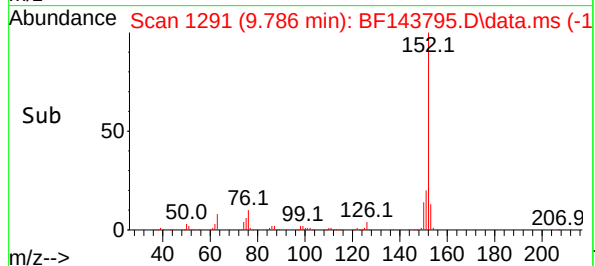
153 13.2 10.6 15.8

Manual Integrations

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Supervised By :Jagrut Upadhyay 09/24/2025



#50

Dimethylphthalate

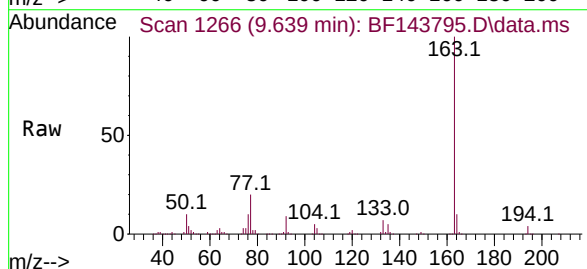
Concen: 42.186 ng

RT: 9.639 min Scan# 1266

Delta R.T. 0.000 min

Lab File: BF143795.D

Acq: 23 Sep 2025 13:59



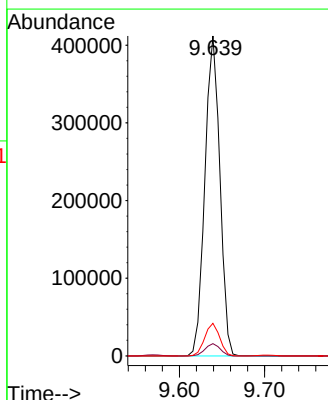
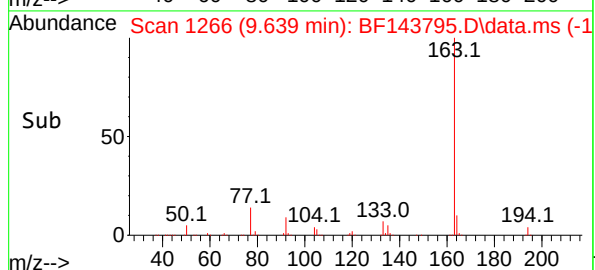
Tgt Ion:163 Resp: 502623

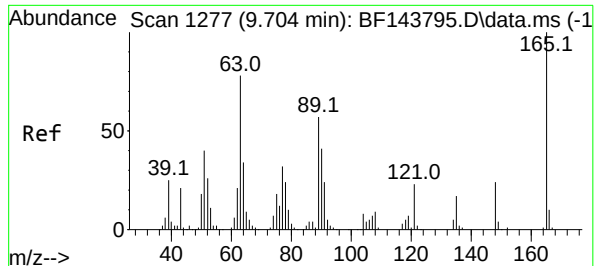
Ion Ratio Lower Upper

163 100

194 3.8 3.0 4.6

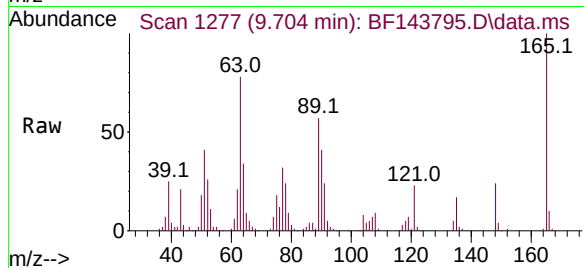
164 10.2 8.2 12.2





#51  
2,6-Dinitrotoluene  
Concen: 45.543 ng  
RT: 9.704 min Scan# 1277  
Delta R.T. 0.000 min  
Lab File: BF143795.D  
Acq: 23 Sep 2025 13:59

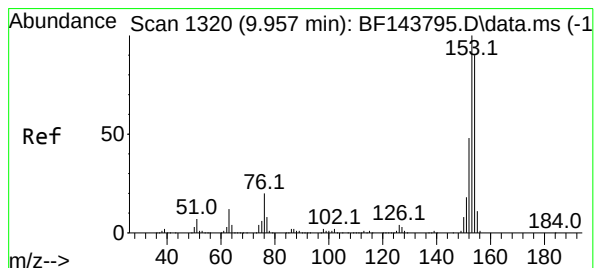
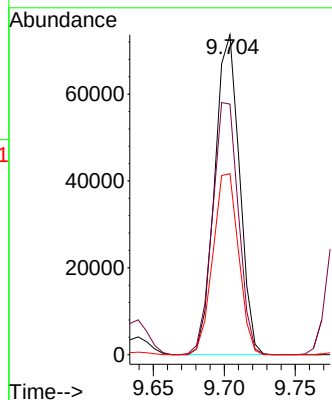
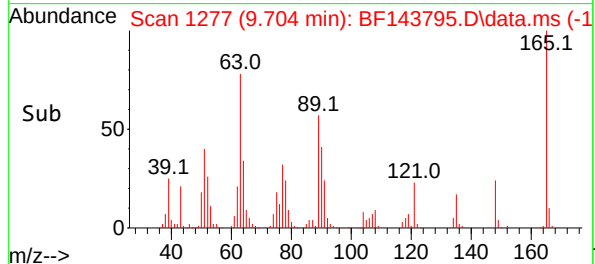
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICCC040



Tgt Ion:165 Resp: 8915  
Ion Ratio Lower Upper  
165 100  
63 78.3 62.6 94.0  
89 56.5 45.2 67.8

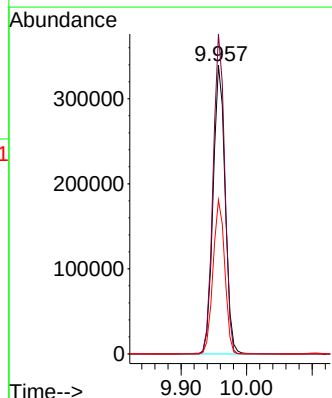
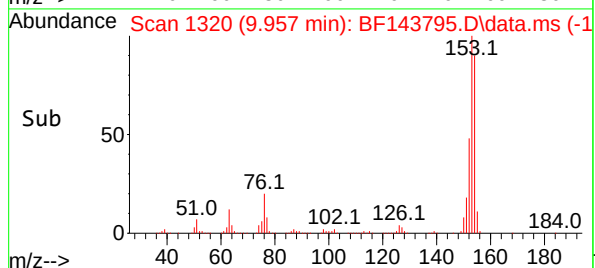
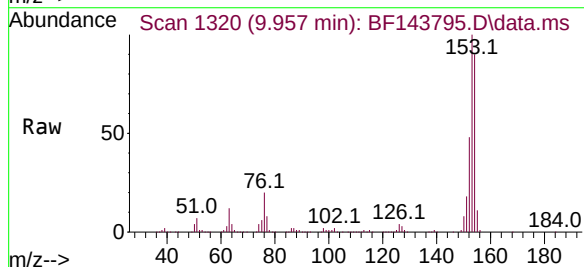
Manual Integrations  
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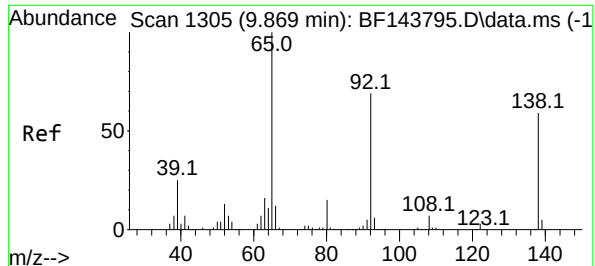
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#52  
Acenaphthene  
Concen: 42.036 ng  
RT: 9.957 min Scan# 1320  
Delta R.T. -0.006 min  
Lab File: BF143795.D  
Acq: 23 Sep 2025 13:59

Tgt Ion:154 Resp: 433748  
Ion Ratio Lower Upper  
154 100  
153 110.9 88.7 133.1  
152 53.4 42.7 64.1





#53

3-Nitroaniline

Concen: 46.671 ng

RT: 9.869 min Scan# 1305

Delta R.T. -0.006 min

Lab File: BF143795.D

Acq: 23 Sep 2025 13:59

Instrument :

BNA\_F

ClientSampleId :

SSTDICCC040

Tgt Ion:138 Resp: 110739

Ion Ratio Lower Upper

138 100

108 12.4 9.9 14.9

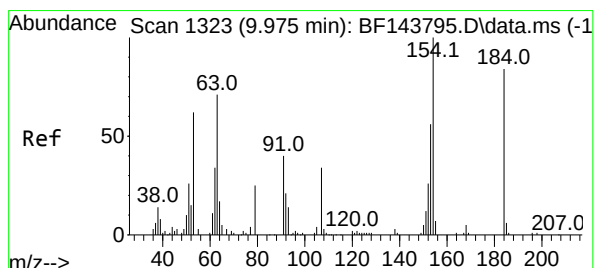
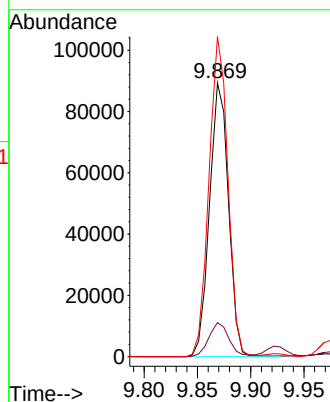
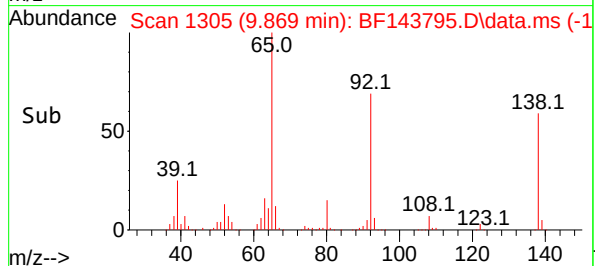
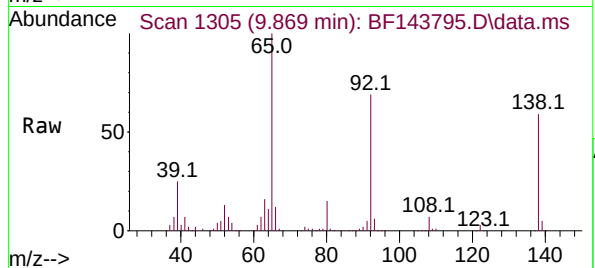
92 116.9 93.5 140.3

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#54

2,4-Dinitrophenol

Concen: 41.301 ng

RT: 9.975 min Scan# 1323

Delta R.T. -0.000 min

Lab File: BF143795.D

Acq: 23 Sep 2025 13:59

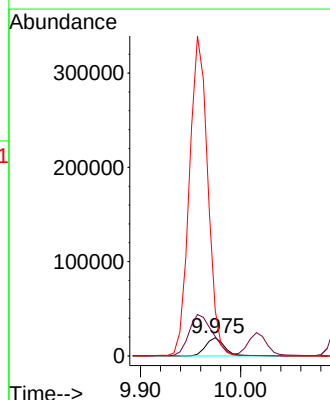
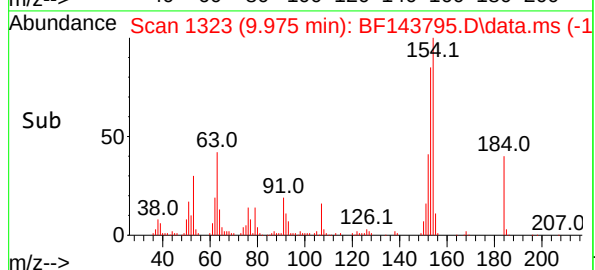
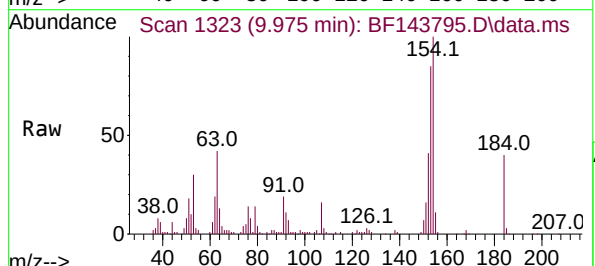
Tgt Ion:184 Resp: 24685

Ion Ratio Lower Upper

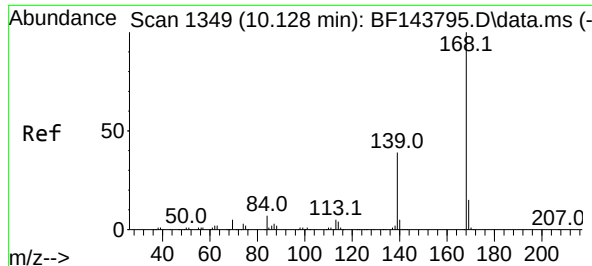
184 100

63 105.8 84.6 127.0

154 249.1 199.3 298.9







#55

Dibenzenofuran

Concen: 41.833 ng

RT: 10.128 min Scan# 1349

Delta R.T. -0.006 min

Lab File: BF143795.D

Acq: 23 Sep 2025 13:59

Instrument :

BNA\_F

ClientSampleId :

SSTDICCC040

Tgt Ion:168 Resp: 610393

Ion Ratio Lower Upper

168 100

139 38.8 31.0 46.6

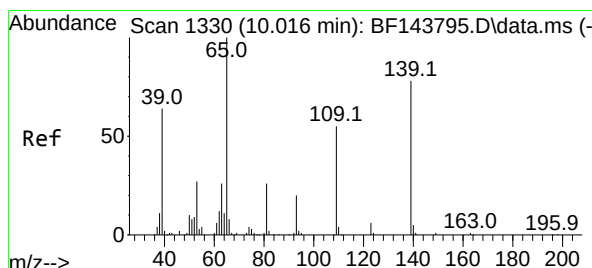
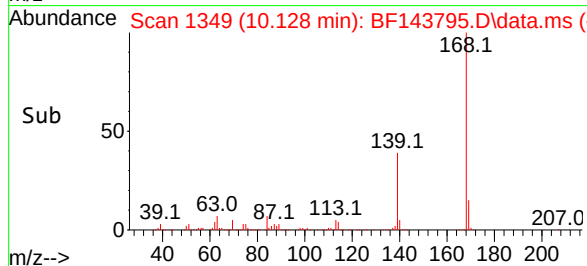
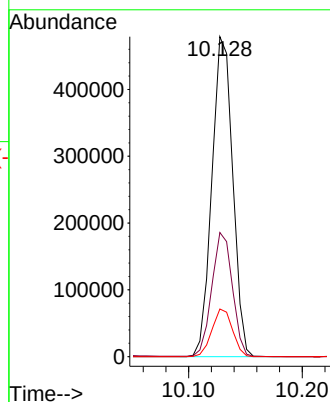
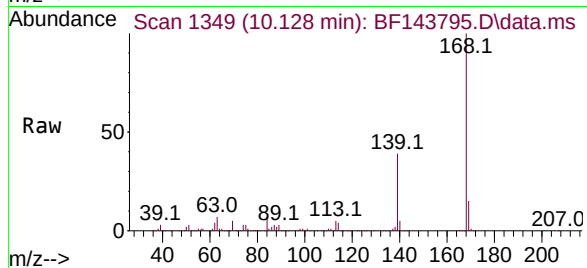
169 14.9 11.9 17.9

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#56

4-Nitrophenol

Concen: 42.462 ng

RT: 10.016 min Scan# 1330

Delta R.T. -0.006 min

Lab File: BF143795.D

Acq: 23 Sep 2025 13:59

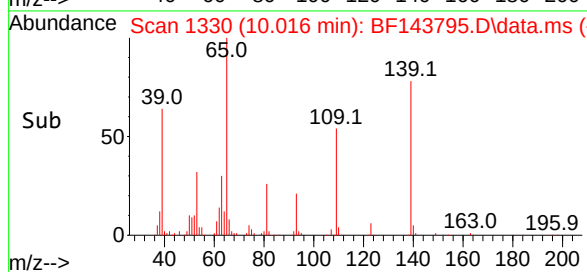
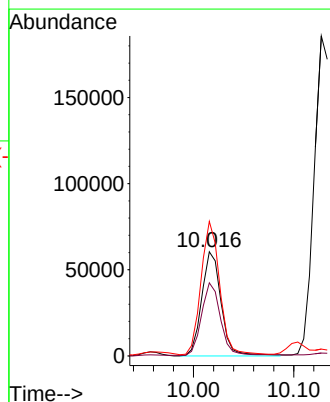
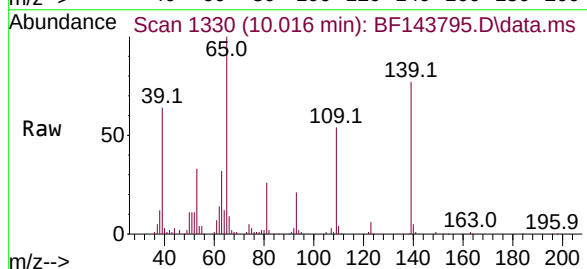
Tgt Ion:139 Resp: 81189

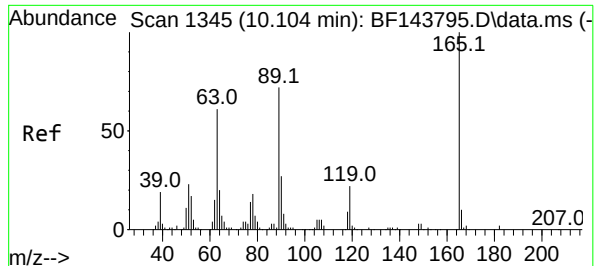
Ion Ratio Lower Upper

139 100

109 70.2 50.2 90.2

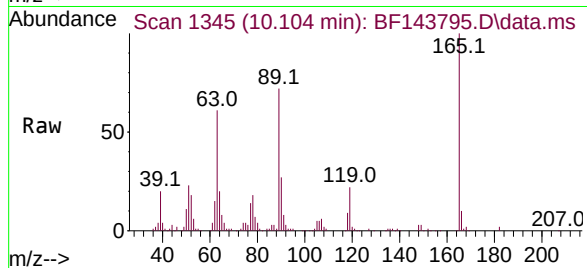
65 129.2 109.2 149.2





#57  
2,4-Dinitrotoluene  
Concen: 41.745 ng  
RT: 10.104 min Scan# 1345  
Delta R.T. -0.006 min  
Lab File: BF143795.D  
Acq: 23 Sep 2025 13:59

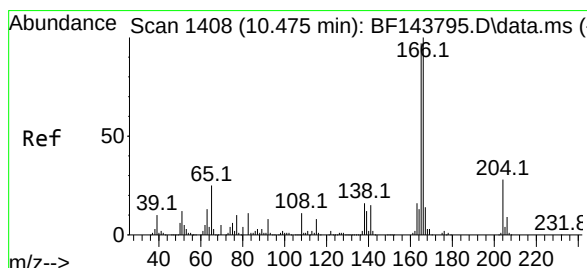
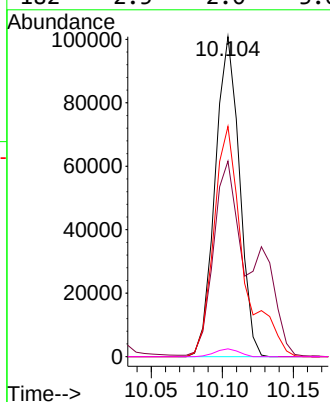
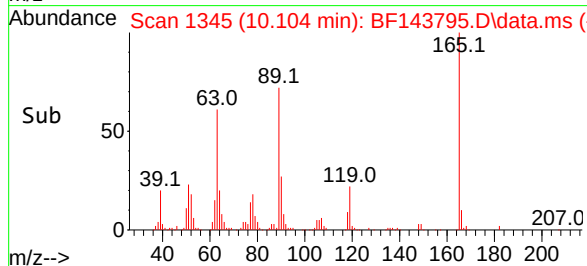
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICCC040



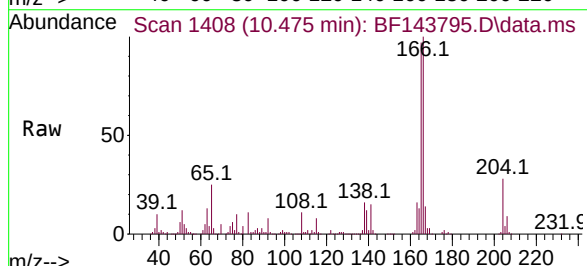
Tgt Ion:165 Resp: 120114  
Ion Ratio Lower Upper  
165 100  
63 61.1 48.9 73.3  
89 71.9 57.5 86.3  
182 2.5 2.0 3.0

Manual Integrations  
APPROVED

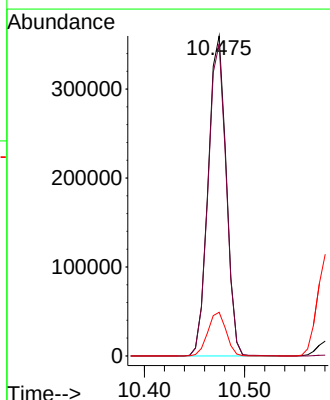
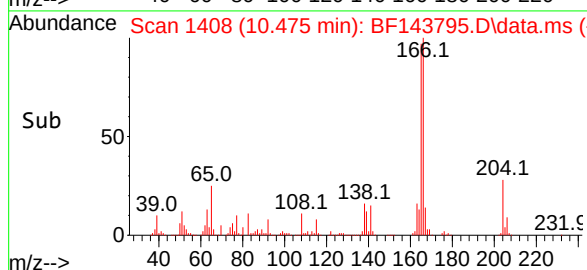
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025

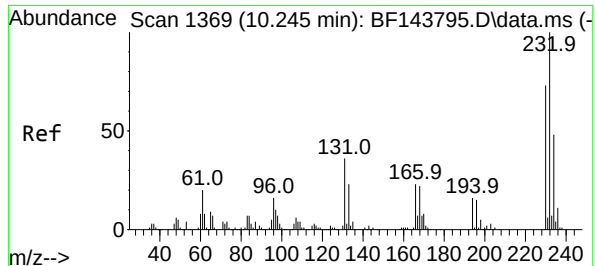


#58  
Fluorene  
Concen: 41.324 ng  
RT: 10.475 min Scan# 1408  
Delta R.T. 0.000 min  
Lab File: BF143795.D  
Acq: 23 Sep 2025 13:59



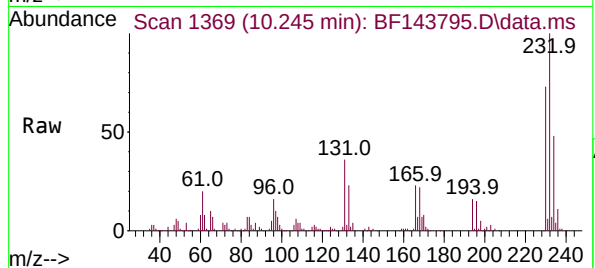
Tgt Ion:166 Resp: 448265  
Ion Ratio Lower Upper  
166 100  
165 97.5 78.0 117.0  
167 13.6 10.9 16.3





#59  
2,3,4,6-Tetrachlorophenol  
Concen: 44.013 ng  
RT: 10.245 min Scan# 1369  
Delta R.T. 0.000 min  
Lab File: BF143795.D  
Acq: 23 Sep 2025 13:59

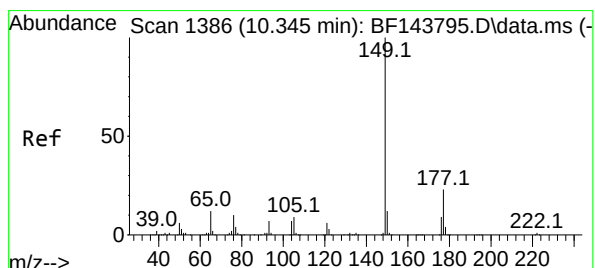
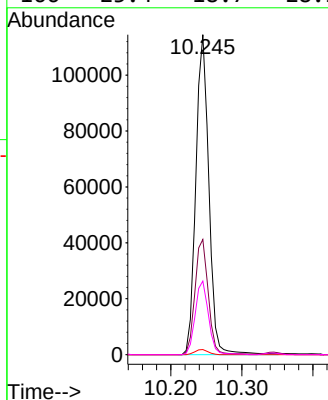
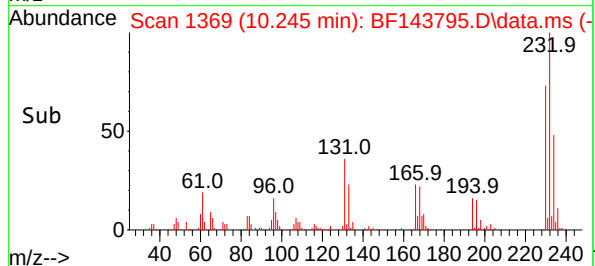
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICCC040



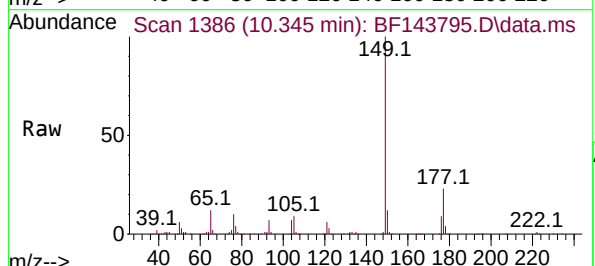
Tgt Ion:232 Resp: 145681  
Ion Ratio Lower Upper  
232 100  
131 36.8 29.4 44.2  
130 1.6 1.3 1.9  
166 23.4 18.7 28.1

Manual Integrations  
APPROVED

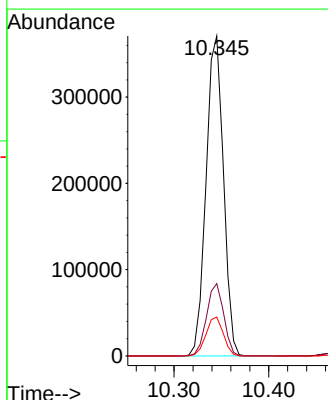
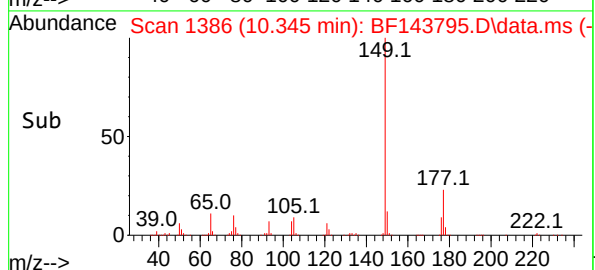
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025

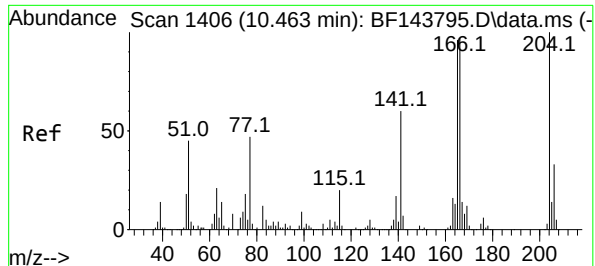


#60  
Diethylphthalate  
Concen: 42.438 ng  
RT: 10.345 min Scan# 1386  
Delta R.T. 0.000 min  
Lab File: BF143795.D  
Acq: 23 Sep 2025 13:59



Tgt Ion:149 Resp: 473302  
Ion Ratio Lower Upper  
149 100  
177 22.6 18.1 27.1  
150 12.1 9.7 14.5





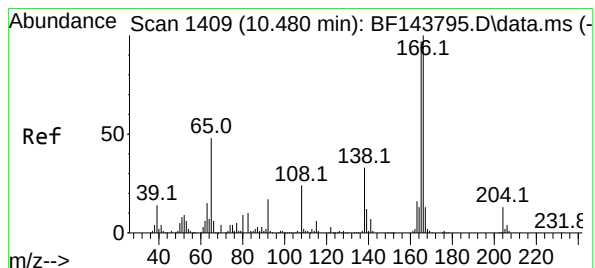
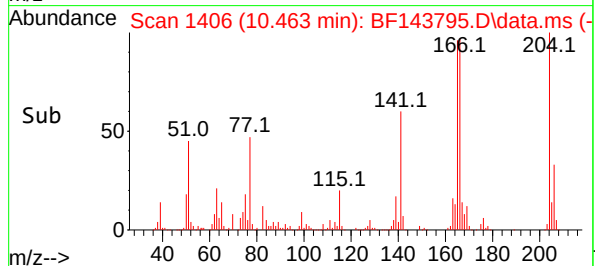
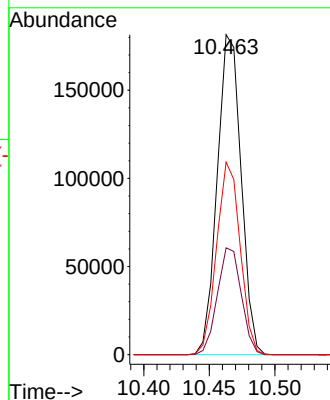
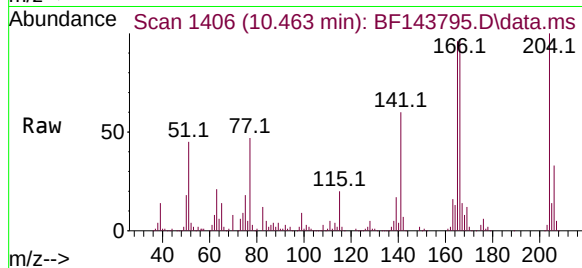
#61  
4-Chlorophenyl-phenylether  
Concen: 41.729 ng  
RT: 10.463 min Scan# 1406  
Delta R.T. -0.006 min  
Lab File: BF143795.D  
Acq: 23 Sep 2025 13:59

Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICCC040

Tgt Ion:204 Resp: 230643  
Ion Ratio Lower Upper  
204 100  
206 33.4 26.7 40.1  
141 60.2 48.2 72.2

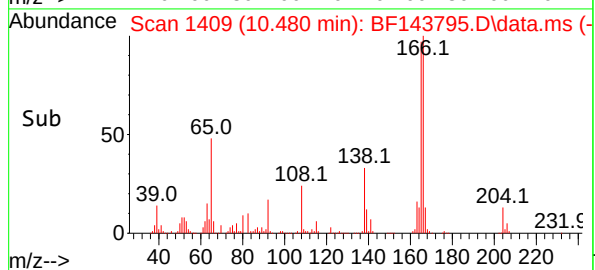
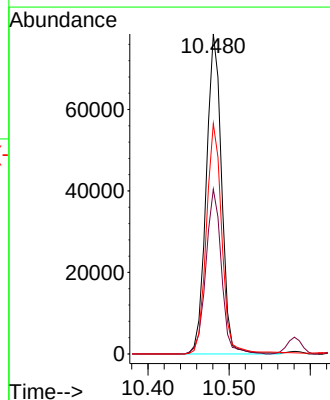
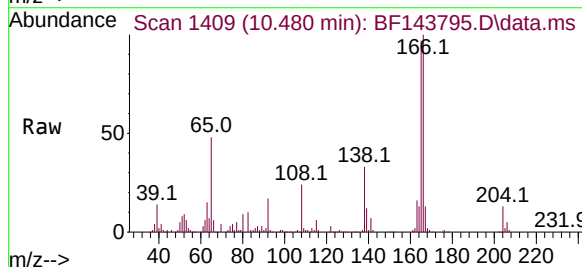
Manual Integrations  
APPROVED

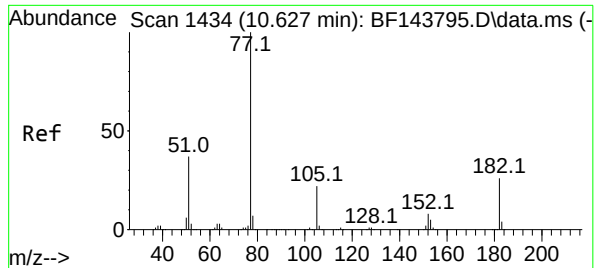
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#62  
4-Nitroaniline  
Concen: 46.254 ng  
RT: 10.480 min Scan# 1409  
Delta R.T. -0.012 min  
Lab File: BF143795.D  
Acq: 23 Sep 2025 13:59

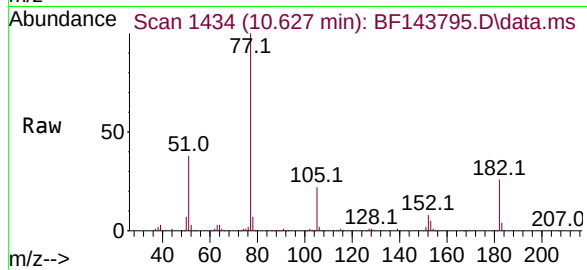
Tgt Ion:138 Resp: 103193  
Ion Ratio Lower Upper  
138 100  
92 51.5 31.5 71.5  
108 71.9 51.9 91.9





#63  
Azobenzene  
Concen: 42.532 ng  
RT: 10.627 min Scan# 1434  
Delta R.T. 0.000 min  
Lab File: BF143795.D  
Acq: 23 Sep 2025 13:59

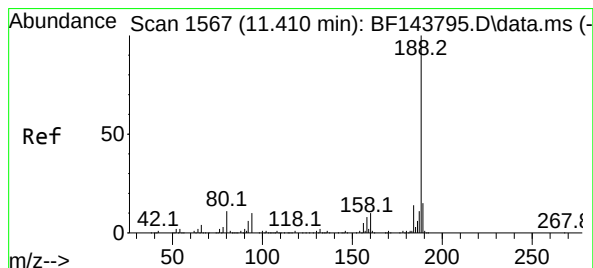
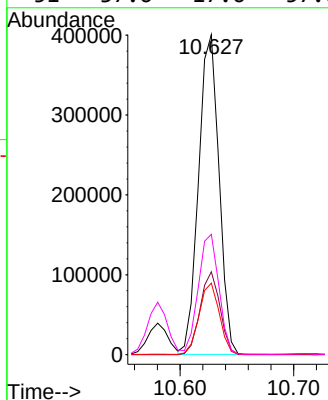
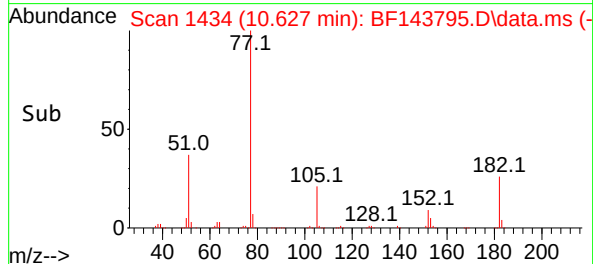
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICCC040



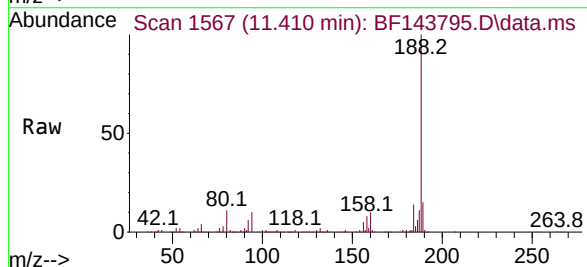
Tgt Ion: 77 Resp: 499929  
Ion Ratio Lower Upper  
77 100  
182 25.9 5.9 45.9  
105 22.3 2.3 42.3  
51 37.6 17.6 57.6

Manual Integrations  
APPROVED

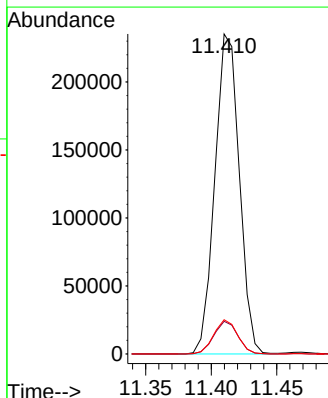
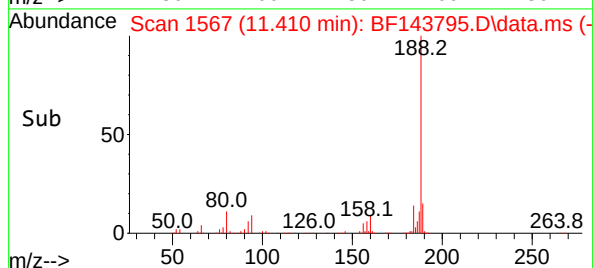
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025

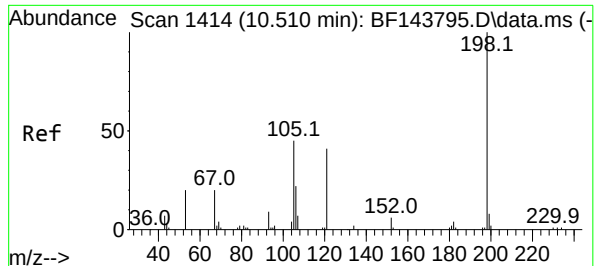


#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.410 min Scan# 1567  
Delta R.T. -0.006 min  
Lab File: BF143795.D  
Acq: 23 Sep 2025 13:59



Tgt Ion:188 Resp: 304940  
Ion Ratio Lower Upper  
188 100  
94 10.2 8.2 12.2  
80 10.7 8.6 12.8





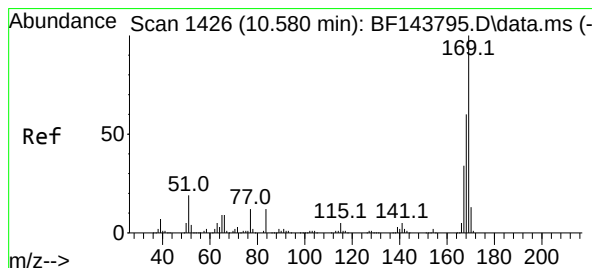
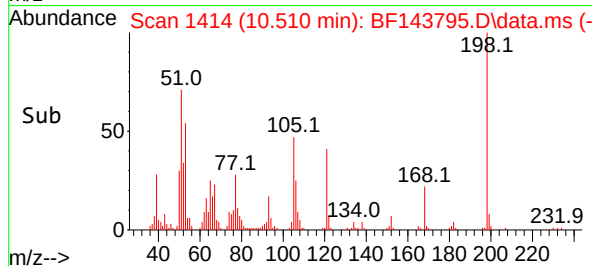
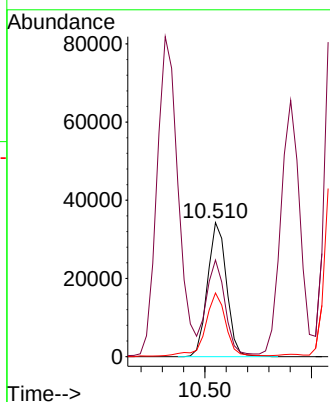
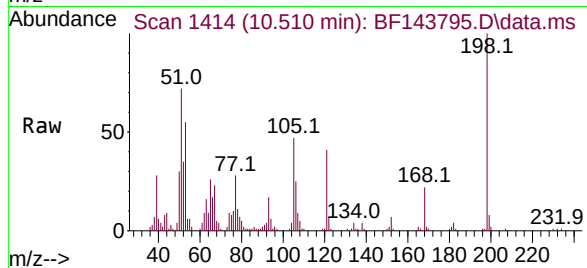
#65  
4,6-Dinitro-2-methylphenol  
Concen: 40.163 ng  
RT: 10.510 min Scan# 1414  
Delta R.T. -0.006 min  
Lab File: BF143795.D  
Acq: 23 Sep 2025 13:59

Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICCC040

Tgt Ion:198 Resp: 4244  
Ion Ratio Lower Upper  
198 100  
51 72.0 52.0 92.0  
105 47.5 27.5 67.5

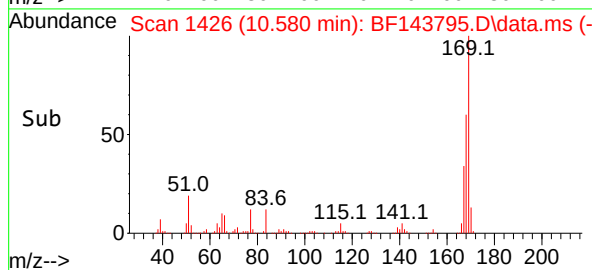
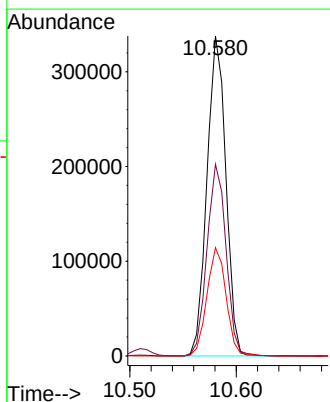
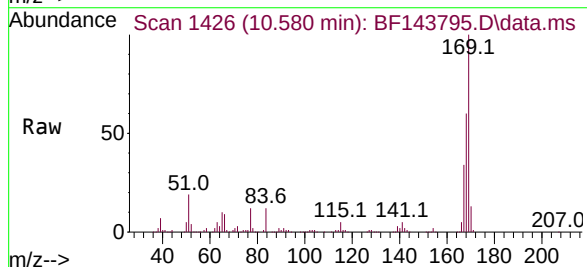
Manual Integrations  
APPROVED

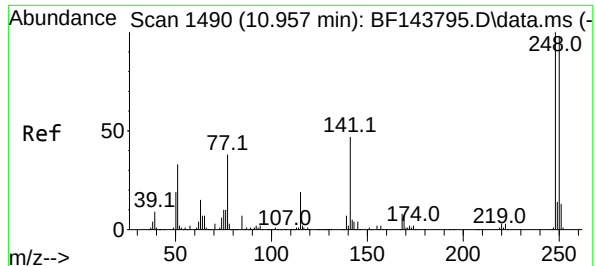
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#66  
n-Nitrosodiphenylamine  
Concen: 41.492 ng  
RT: 10.580 min Scan# 1426  
Delta R.T. -0.006 min  
Lab File: BF143795.D  
Acq: 23 Sep 2025 13:59

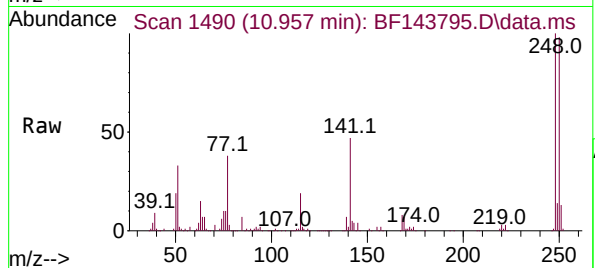
Tgt Ion:169 Resp: 416100  
Ion Ratio Lower Upper  
169 100  
168 59.9 47.9 71.9  
167 33.8 27.0 40.6





#67  
4-Bromophenyl-phenylether  
Concen: 42.319 ng  
RT: 10.957 min Scan# 1490  
Delta R.T. 0.000 min  
Lab File: BF143795.D  
Acq: 23 Sep 2025 13:59

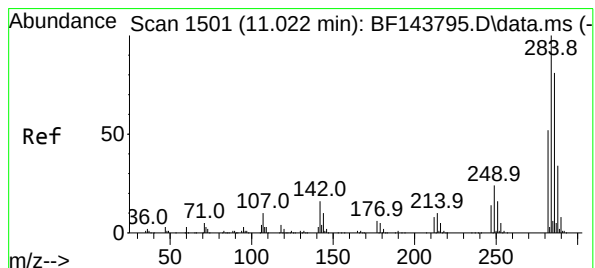
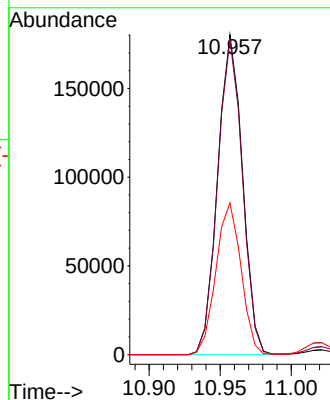
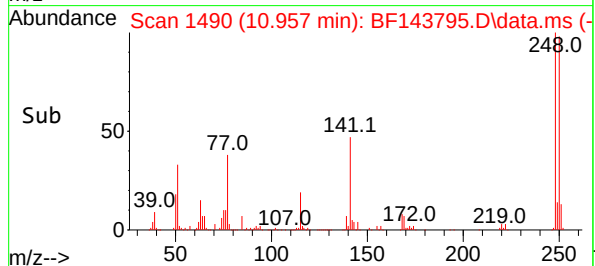
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICCC040



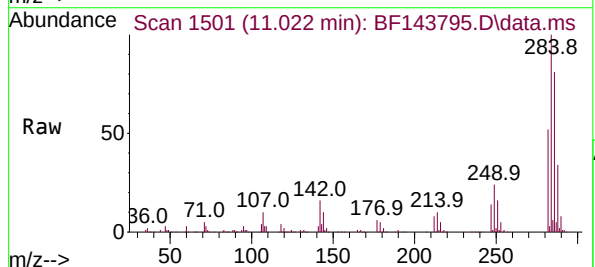
Tgt Ion:248 Resp: 219921  
Ion Ratio Lower Upper  
248 100  
250 98.4 78.7 118.1  
141 47.4 37.9 56.9

Manual Integrations  
APPROVED

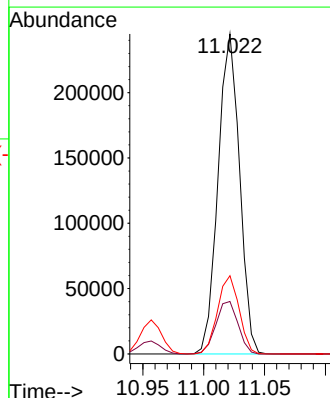
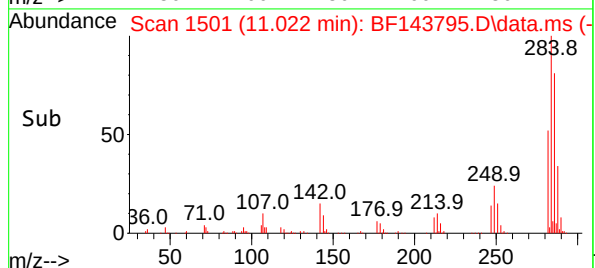
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025

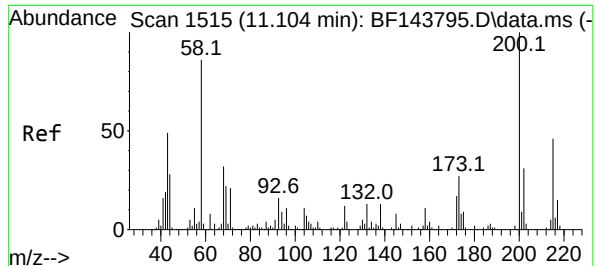


#68  
Hexachlorobenzene  
Concen: 41.941 ng  
RT: 11.022 min Scan# 1501  
Delta R.T. 0.000 min  
Lab File: BF143795.D  
Acq: 23 Sep 2025 13:59



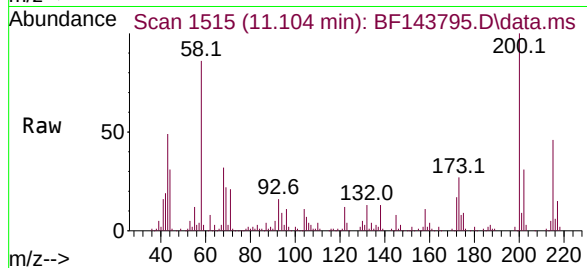
Tgt Ion:284 Resp: 300364  
Ion Ratio Lower Upper  
284 100  
142 16.4 13.1 19.7  
249 24.4 19.5 29.3





#69  
Atrazine  
Concen: 44.222 ng  
RT: 11.104 min Scan# 1515  
Delta R.T. -0.006 min  
Lab File: BF143795.D  
Acq: 23 Sep 2025 13:59

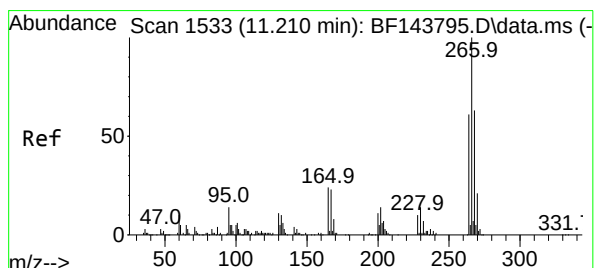
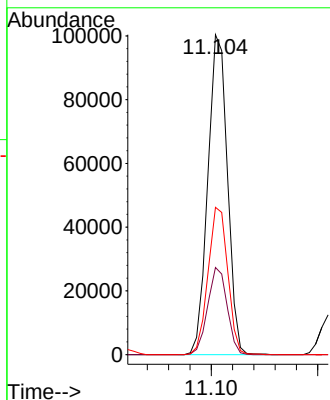
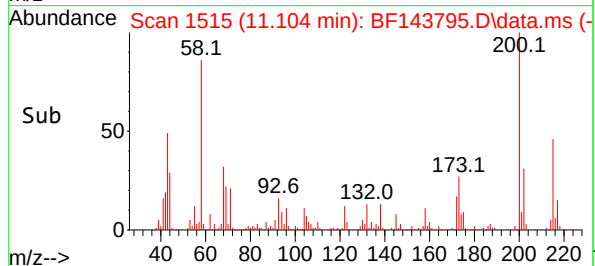
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICCC040



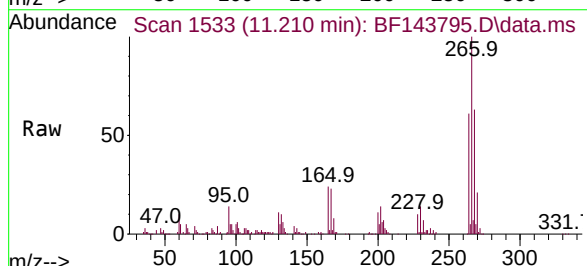
Tgt Ion:200 Resp: 128423  
Ion Ratio Lower Upper  
200 100  
173 27.2 7.2 47.2  
215 46.0 26.0 66.0

Manual Integrations  
APPROVED

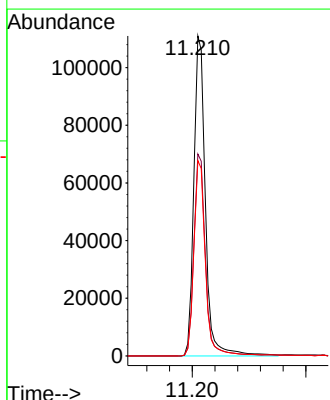
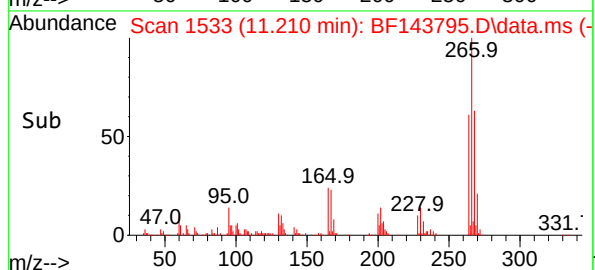
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



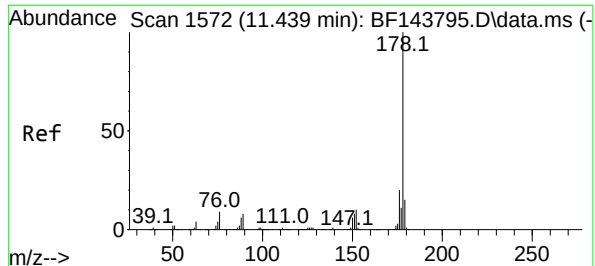
#70  
Pentachlorophenol  
Concen: 43.781 ng  
RT: 11.210 min Scan# 1533  
Delta R.T. -0.006 min  
Lab File: BF143795.D  
Acq: 23 Sep 2025 13:59



Tgt Ion:266 Resp: 156073  
Ion Ratio Lower Upper  
266 100  
268 63.1 50.5 75.7  
264 61.0 48.8 73.2







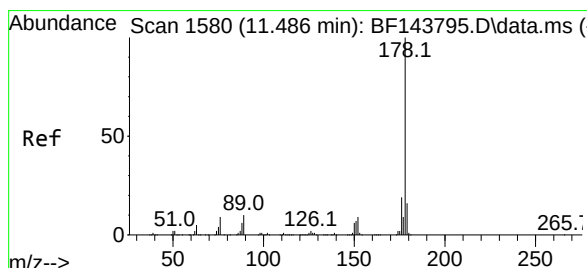
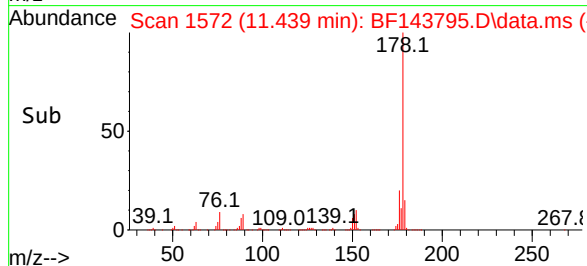
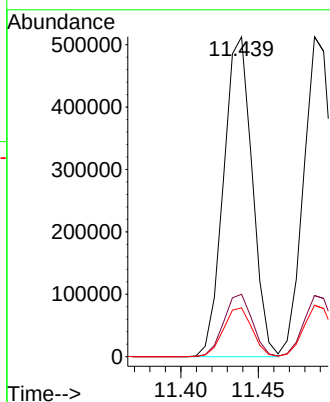
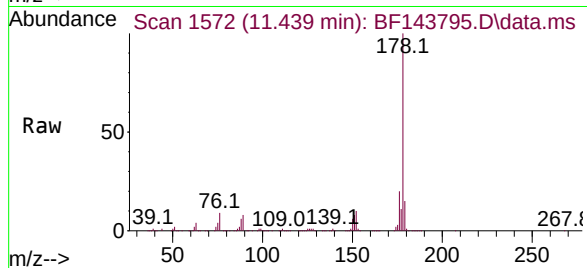
#71  
Phenanthrene  
Concen: 42.160 ng  
RT: 11.439 min Scan# 1572  
Delta R.T. 0.000 min  
Lab File: BF143795.D  
Acq: 23 Sep 2025 13:59

Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICCC040

Tgt Ion:178 Resp: 660040  
Ion Ratio Lower Upper  
178 100  
176 19.5 15.6 23.4  
179 15.3 12.2 18.4

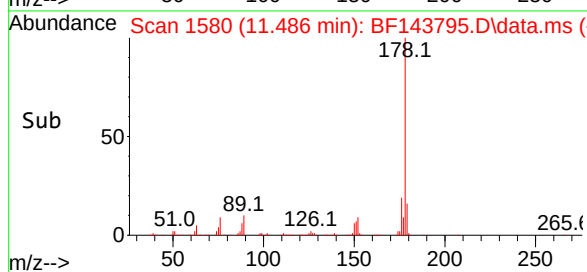
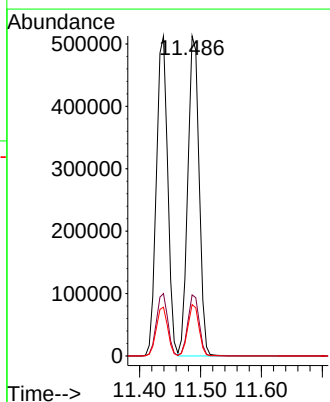
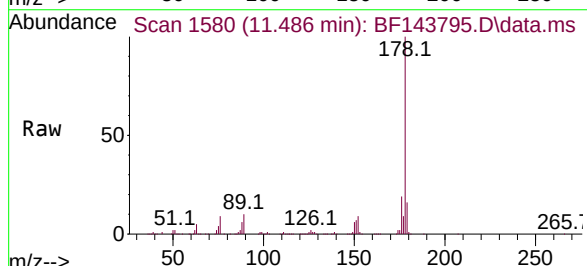
Manual Integrations  
APPROVED

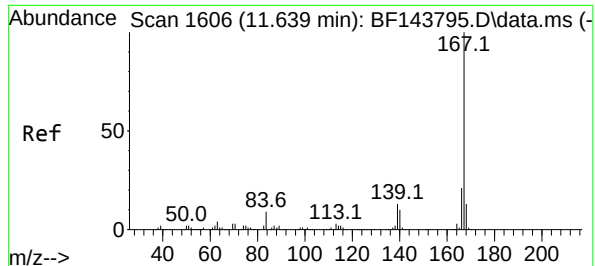
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#72  
Anthracene  
Concen: 42.075 ng  
RT: 11.486 min Scan# 1580  
Delta R.T. -0.006 min  
Lab File: BF143795.D  
Acq: 23 Sep 2025 13:59

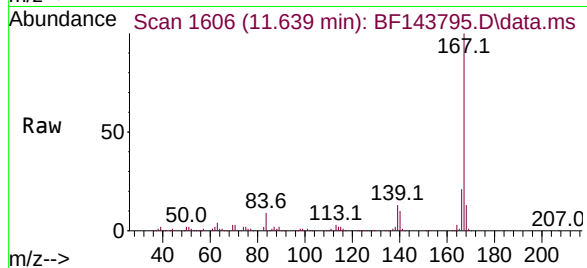
Tgt Ion:178 Resp: 660736  
Ion Ratio Lower Upper  
178 100  
176 19.1 15.3 22.9  
179 16.0 12.8 19.2





#73  
Carbazole  
Concen: 43.368 ng  
RT: 11.639 min Scan# 1606  
Delta R.T. -0.006 min  
Lab File: BF143795.D  
Acq: 23 Sep 2025 13:59

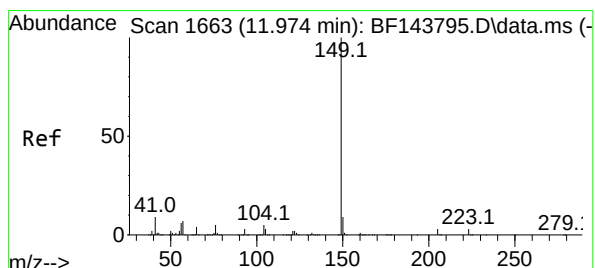
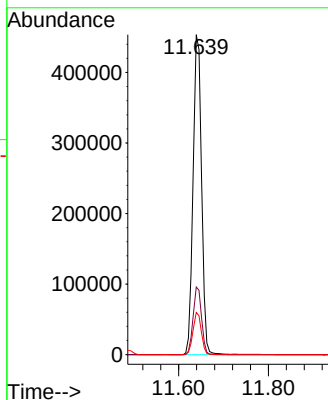
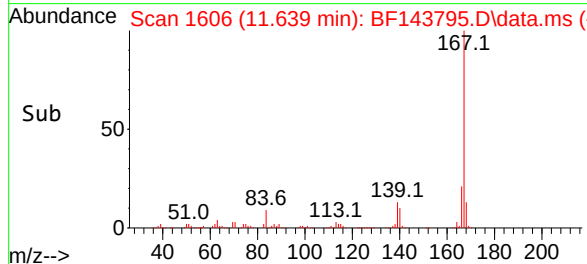
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICCC040



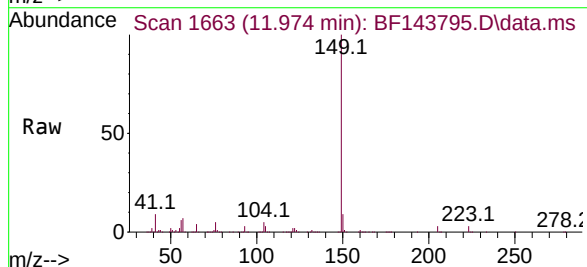
Tgt Ion:167 Resp: 595454  
Ion Ratio Lower Upper  
167 100  
166 21.2 17.0 25.4  
139 13.2 10.6 15.8

Manual Integrations  
APPROVED

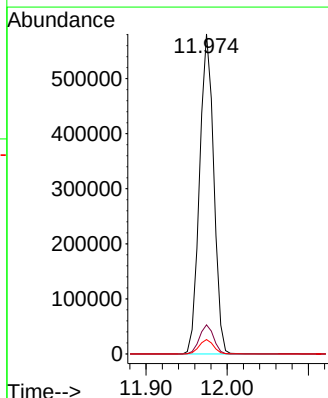
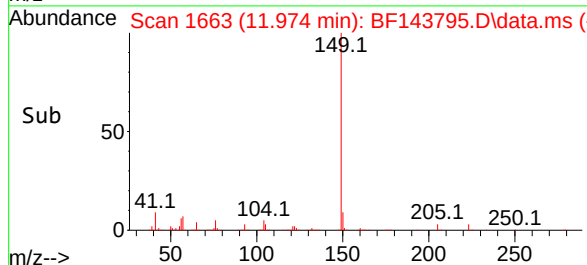
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025

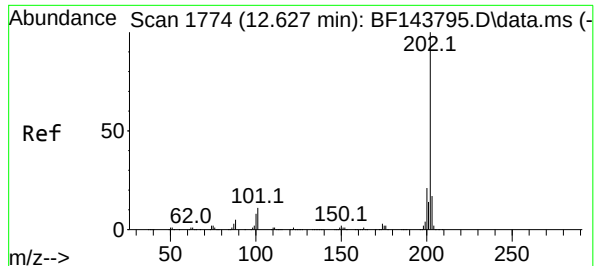


#74  
Di-n-butylphthalate  
Concen: 44.694 ng  
RT: 11.974 min Scan# 1663  
Delta R.T. 0.000 min  
Lab File: BF143795.D  
Acq: 23 Sep 2025 13:59



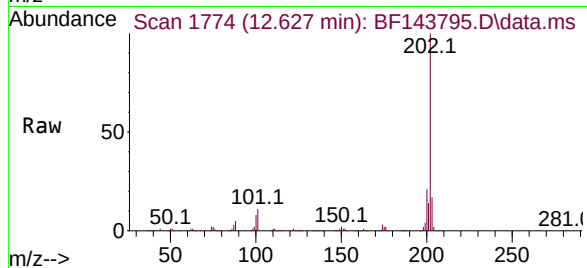
Tgt Ion:149 Resp: 705755  
Ion Ratio Lower Upper  
149 100  
150 9.1 7.3 10.9  
104 4.5 3.6 5.4





#75  
Fluoranthene  
Concen: 44.322 ng  
RT: 12.627 min Scan# 1774  
Delta R.T. 0.000 min  
Lab File: BF143795.D  
Acq: 23 Sep 2025 13:59

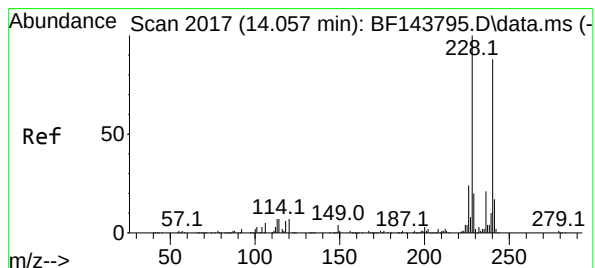
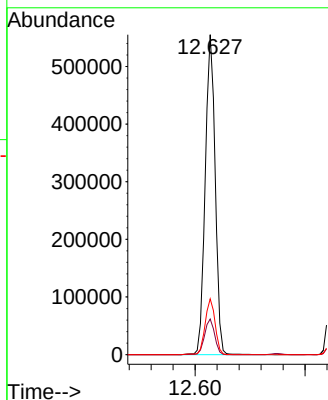
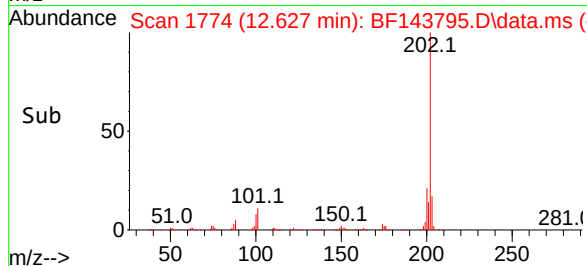
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICCC040



Tgt Ion:202 Resp: 697899  
Ion Ratio Lower Upper  
202 100  
101 11.1 0.0 31.1  
203 17.4 0.0 37.4

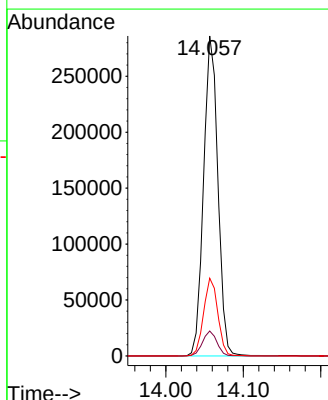
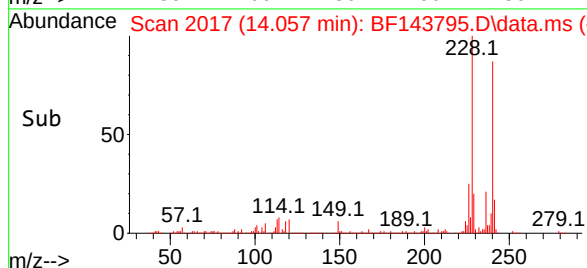
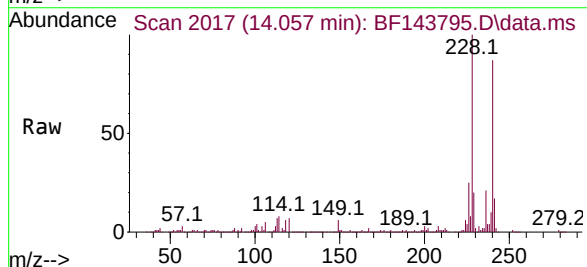
Manual Integrations  
APPROVED

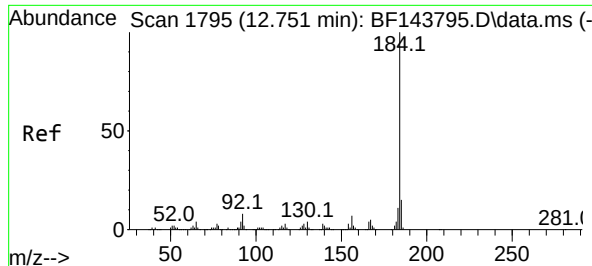
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.057 min Scan# 2017  
Delta R.T. -0.006 min  
Lab File: BF143795.D  
Acq: 23 Sep 2025 13:59

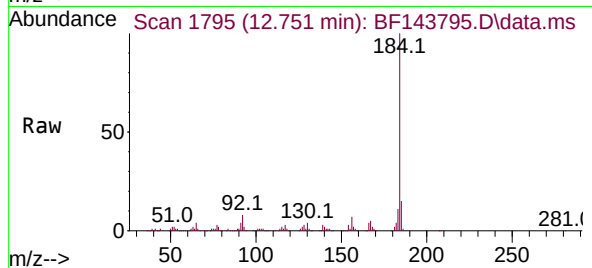
Tgt Ion:240 Resp: 365989  
Ion Ratio Lower Upper  
240 100  
120 7.8 6.2 9.4  
236 24.3 19.4 29.2





#77  
Benzidine  
Concen: 41.956 ng  
RT: 12.751 min Scan# 1795  
Delta R.T. 0.000 min  
Lab File: BF143795.D  
Acq: 23 Sep 2025 13:59

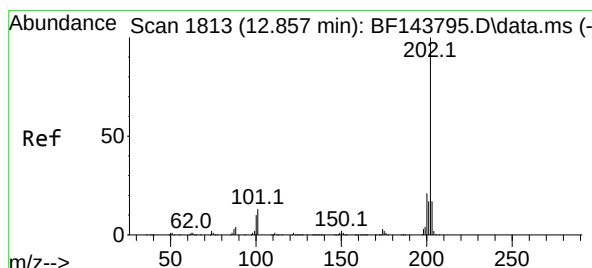
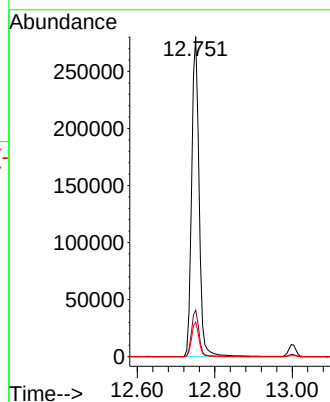
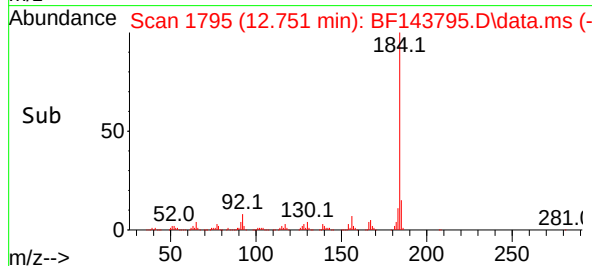
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICCC040



Tgt Ion:184 Resp: 374182  
Ion Ratio Lower Upper  
184 100  
185 14.5 11.6 17.4  
183 10.8 8.6 13.0

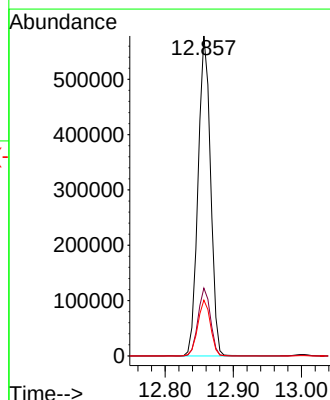
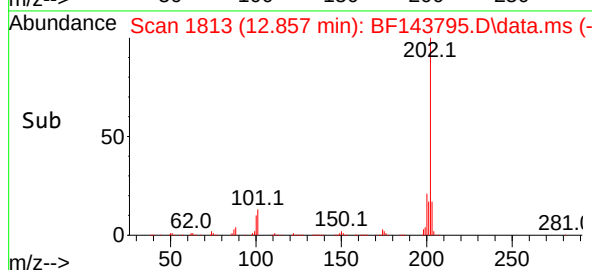
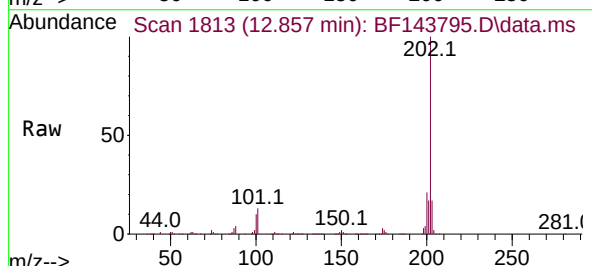
Manual Integrations  
APPROVED

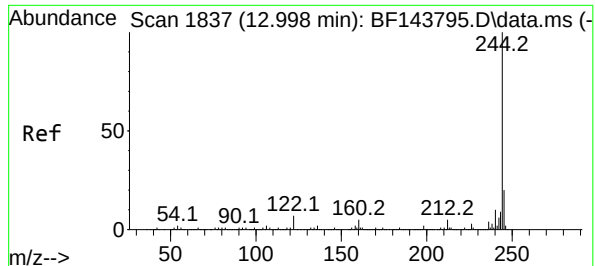
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#78  
Pyrene  
Concen: 40.870 ng  
RT: 12.857 min Scan# 1813  
Delta R.T. 0.000 min  
Lab File: BF143795.D  
Acq: 23 Sep 2025 13:59

Tgt Ion:202 Resp: 735401  
Ion Ratio Lower Upper  
202 100  
200 21.2 17.0 25.4  
203 17.4 13.9 20.9





#79

Terphenyl-d14

Concen: 80.257 ng

RT: 12.998 min Scan# 1837

Delta R.T. -0.006 min

Lab File: BF143795.D

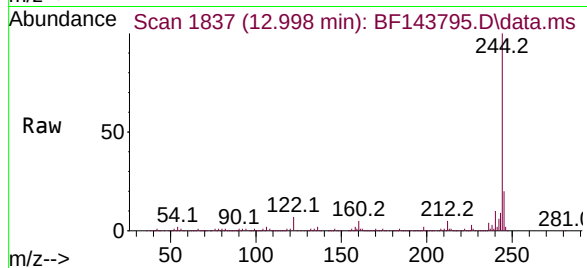
Acq: 23 Sep 2025 13:59

Instrument :

BNA\_F

ClientSampleId :

SSTDICCC040



Tgt Ion:244 Resp: 1496108

Ion Ratio Lower Upper

244 100

212 4.9 3.9 5.9

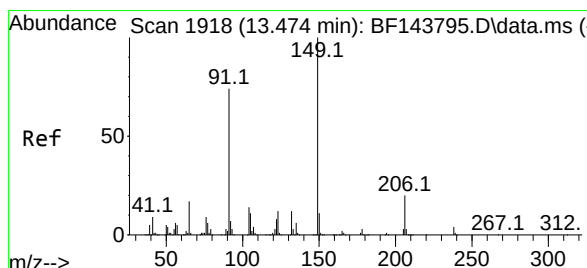
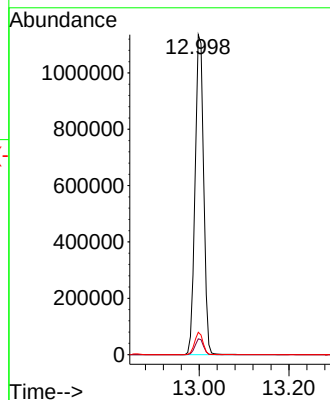
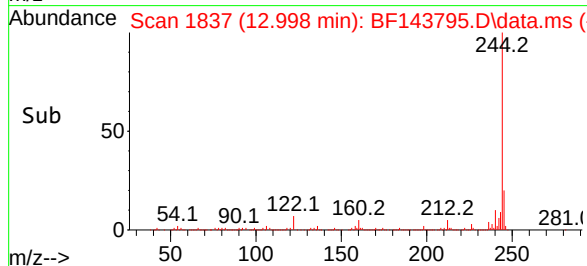
122 7.0 5.6 8.4

Manual Integrations

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Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#80

Butylbenzylphthalate

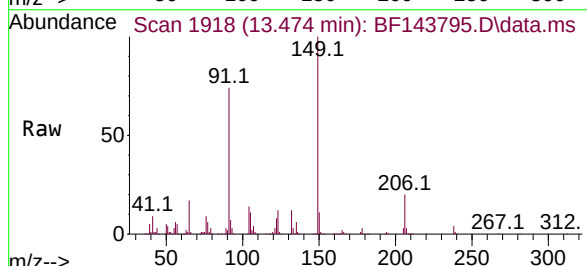
Concen: 46.027 ng

RT: 13.474 min Scan# 1918

Delta R.T. -0.006 min

Lab File: BF143795.D

Acq: 23 Sep 2025 13:59



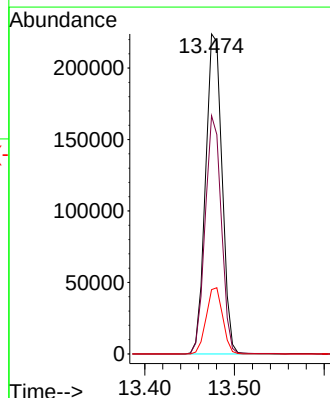
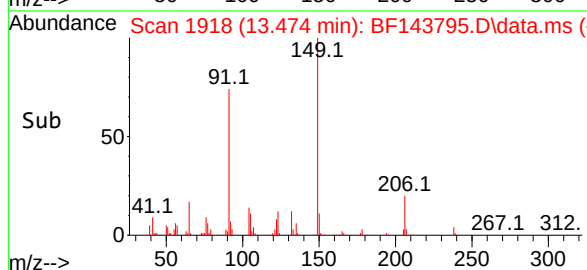
Tgt Ion:149 Resp: 286527

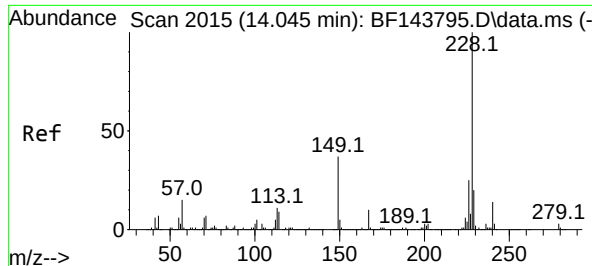
Ion Ratio Lower Upper

149 100

91 74.4 59.5 89.3

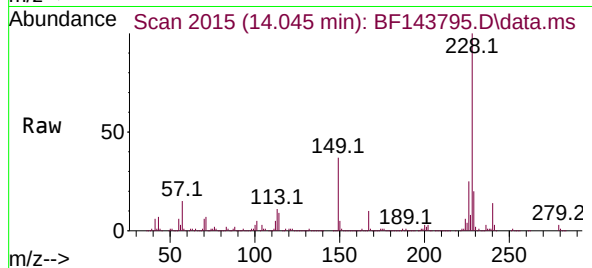
206 20.1 16.1 24.1





#81  
Benzo(a)anthracene  
Concen: 42.732 ng  
RT: 14.045 min Scan# 2015  
Delta R.T. -0.006 min  
Lab File: BF143795.D  
Acq: 23 Sep 2025 13:59

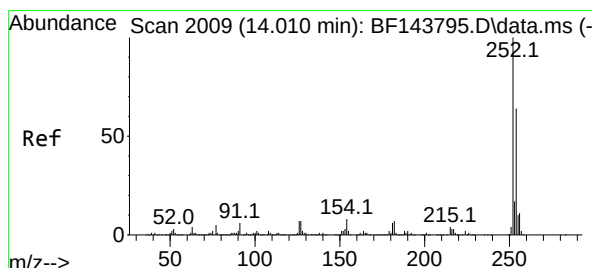
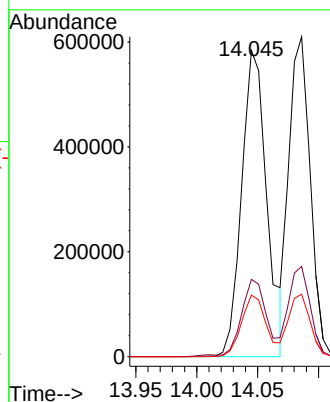
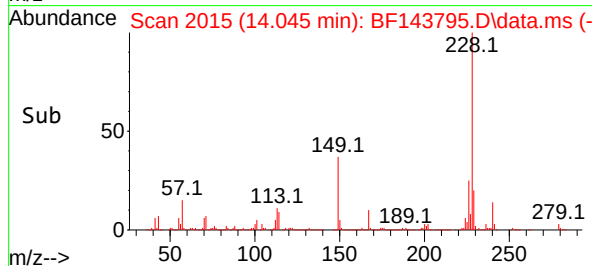
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICCC040



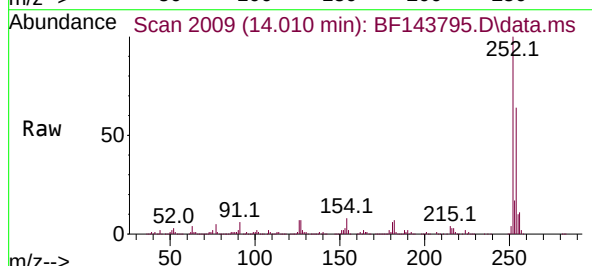
Tgt Ion:228 Resp: 840188  
Ion Ratio Lower Upper  
228 100  
226 25.2 20.2 30.2  
229 20.1 16.1 24.1

Manual Integrations  
APPROVED

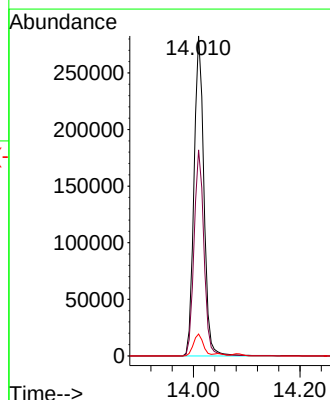
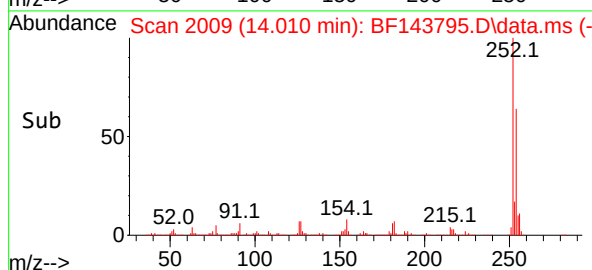
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025

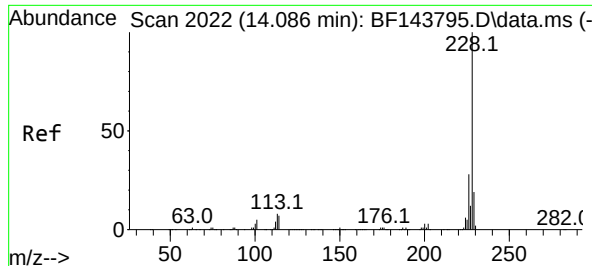


#82  
3,3'-Dichlorobenzidine  
Concen: 42.702 ng  
RT: 14.010 min Scan# 2009  
Delta R.T. 0.000 min  
Lab File: BF143795.D  
Acq: 23 Sep 2025 13:59



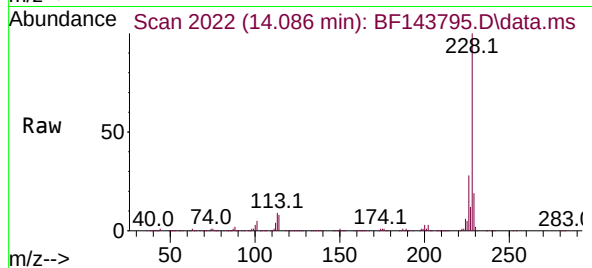
Tgt Ion:252 Resp: 363730  
Ion Ratio Lower Upper  
252 100  
254 64.4 51.5 77.3  
126 6.8 5.4 8.2





#83  
Chrysene  
Concen: 41.873 ng  
RT: 14.086 min Scan# 2022  
Delta R.T. 0.000 min  
Lab File: BF143795.D  
Acq: 23 Sep 2025 13:59

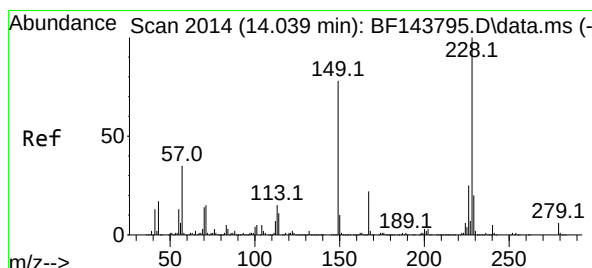
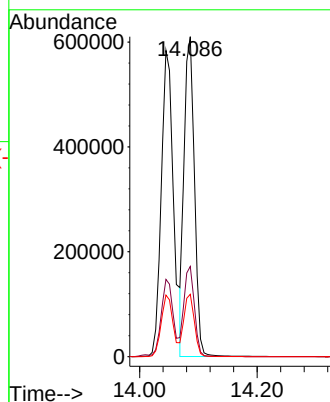
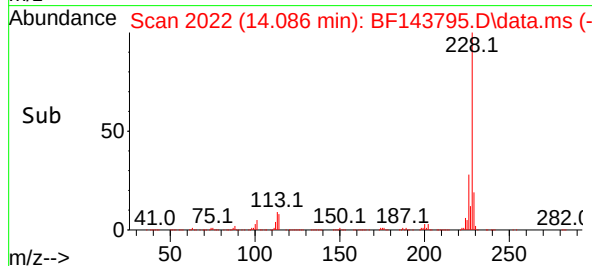
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICCC040



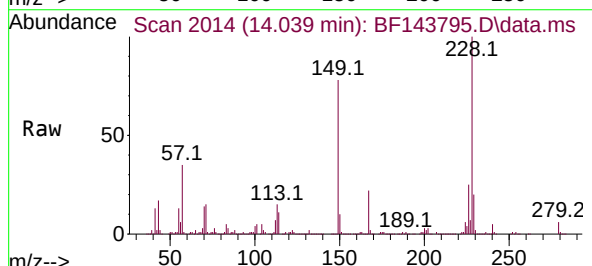
Tgt Ion:228 Resp: 744962  
Ion Ratio Lower Upper  
228 100  
226 28.2 22.6 33.8  
229 19.5 15.6 23.4

Manual Integrations  
APPROVED

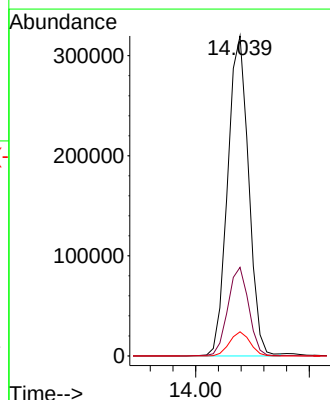
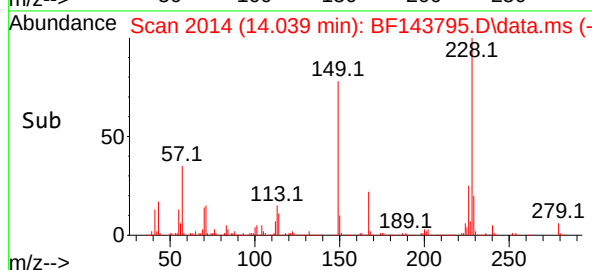
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025

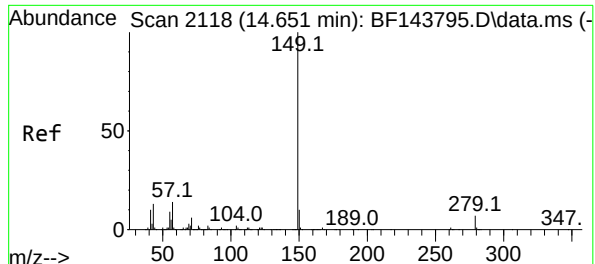


#84  
Bis(2-ethylhexyl)phthalate  
Concen: 44.759 ng  
RT: 14.039 min Scan# 2014  
Delta R.T. 0.000 min  
Lab File: BF143795.D  
Acq: 23 Sep 2025 13:59



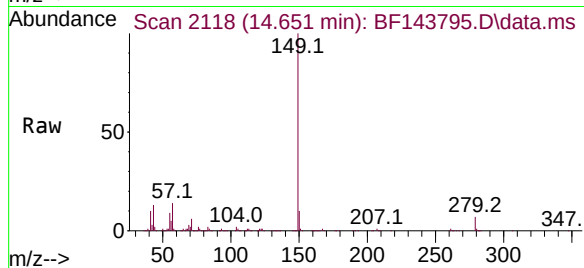
Tgt Ion:149 Resp: 408417  
Ion Ratio Lower Upper  
149 100  
167 27.7 22.2 33.2  
279 7.5 6.0 9.0





#85  
Di-n-octyl phthalate  
Concen: 44.811 ng  
RT: 14.651 min Scan# 2118  
Delta R.T. -0.006 min  
Lab File: BF143795.D  
Acq: 23 Sep 2025 13:59

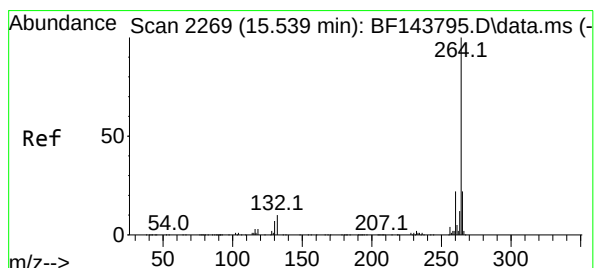
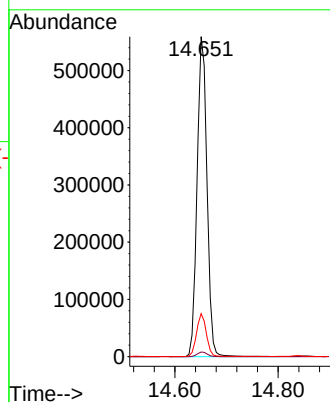
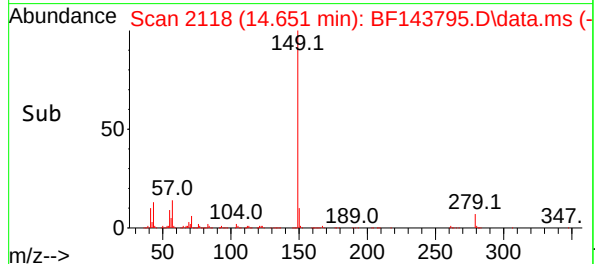
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICCC040



Tgt Ion:149 Resp: 741702  
Ion Ratio Lower Upper  
149 100  
167 1.4 1.1 1.7  
43 13.4 10.7 16.1

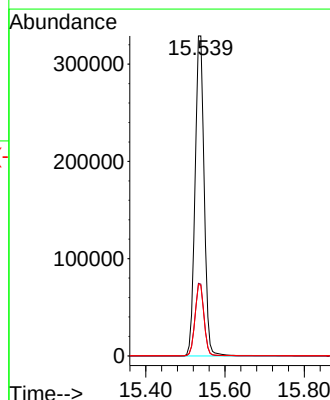
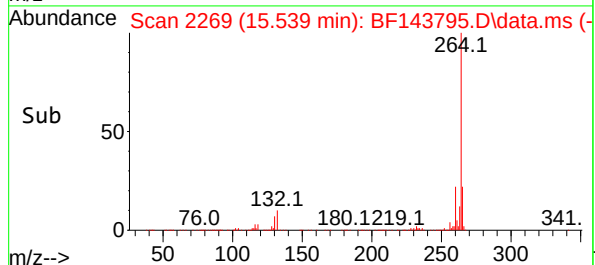
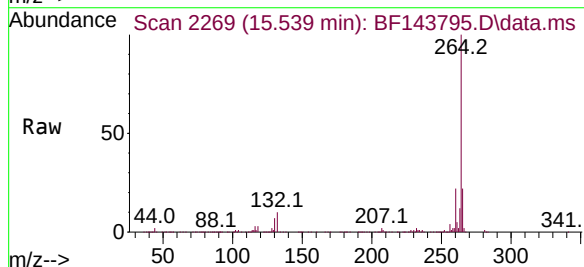
Manual Integrations  
APPROVED

Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025

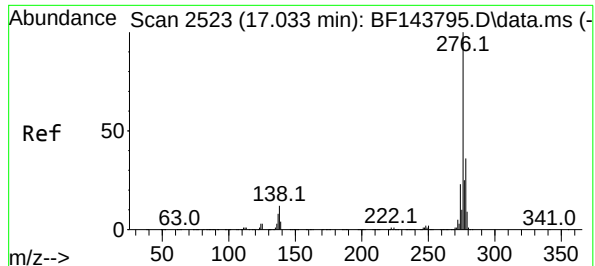


#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.539 min Scan# 2269  
Delta R.T. 0.000 min  
Lab File: BF143795.D  
Acq: 23 Sep 2025 13:59

Tgt Ion:264 Resp: 525577  
Ion Ratio Lower Upper  
264 100  
260 22.4 17.9 26.9  
265 22.1 17.7 26.5







#87

Indeno(1,2,3-cd)pyrene

Concen: 42.389 ng

RT: 17.033 min Scan# 2195

Delta R.T. -0.012 min

Lab File: BF143795.D

Acq: 23 Sep 2025 13:59

Instrument :

BNA\_F

ClientSampleId :

SSTDICCC040

Tgt Ion:276 Resp: 1690390

Ion Ratio Lower Upper

276 100

138 13.2 10.6 15.8

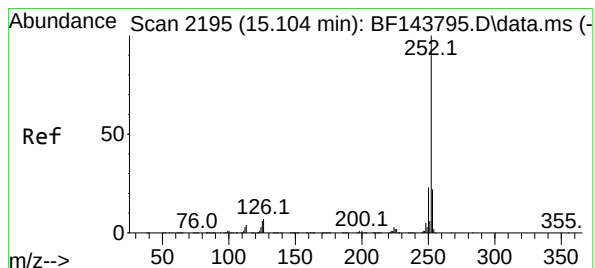
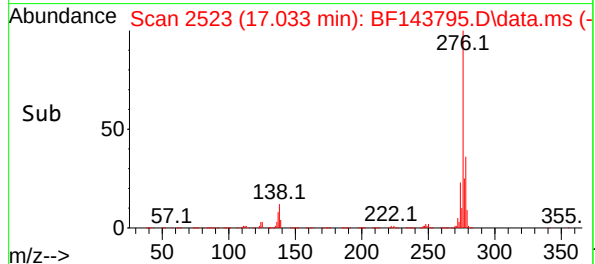
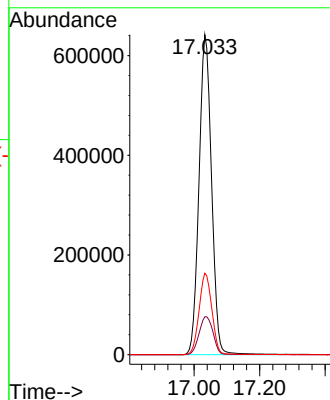
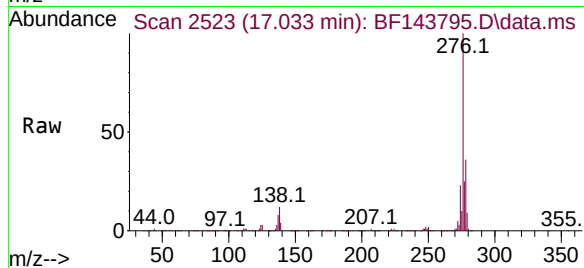
277 25.9 20.7 31.1

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#88

Benzo(b)fluoranthene

Concen: 43.365 ng

RT: 15.104 min Scan# 2195

Delta R.T. 0.000 min

Lab File: BF143795.D

Acq: 23 Sep 2025 13:59

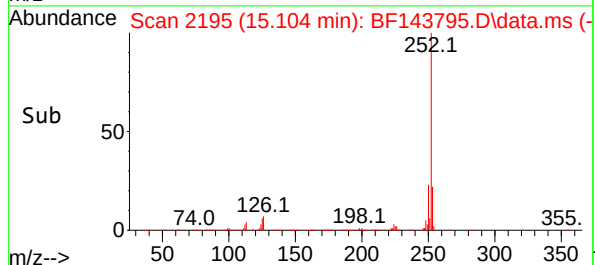
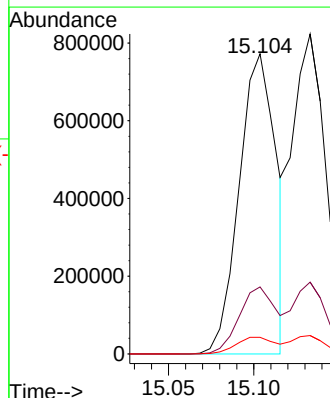
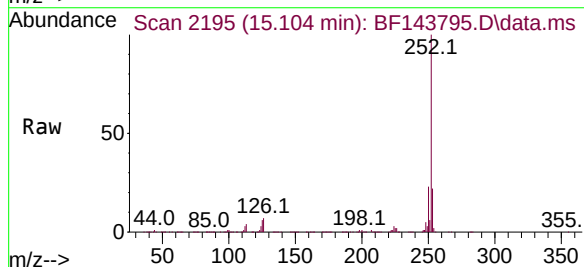
Tgt Ion:252 Resp: 1160651

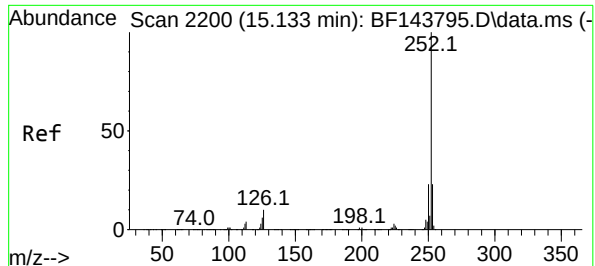
Ion Ratio Lower Upper

252 100

253 22.3 17.8 26.8

125 5.5 4.4 6.6





#89

Benzo(k)fluoranthene

Concen: 42.573 ng

RT: 15.133 min Scan# 2200

Delta R.T. -0.006 min

Lab File: BF143795.D

Acq: 23 Sep 2025 13:59

Instrument :

BNA\_F

ClientSampleId :

SSTDICCC040

Tgt Ion:252 Resp: 1144789

Ion Ratio Lower Upper

252 100

253 22.4 17.9 26.9

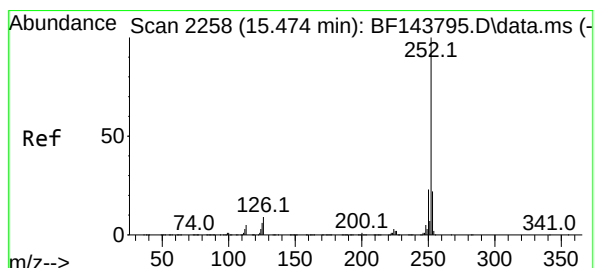
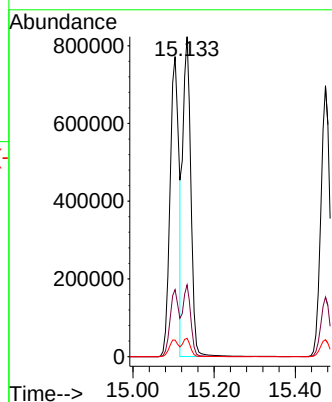
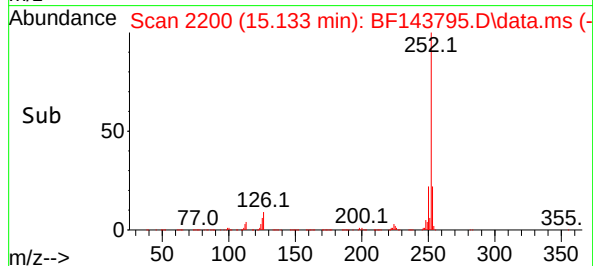
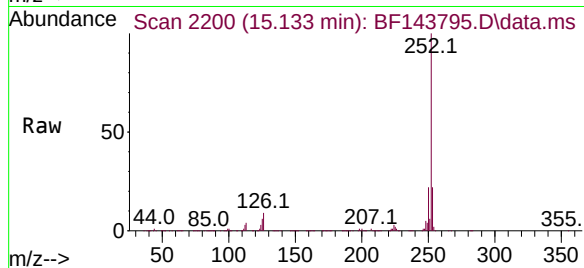
125 5.7 4.6 6.8

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#90

Benzo(a)pyrene

Concen: 42.908 ng

RT: 15.474 min Scan# 2258

Delta R.T. -0.006 min

Lab File: BF143795.D

Acq: 23 Sep 2025 13:59

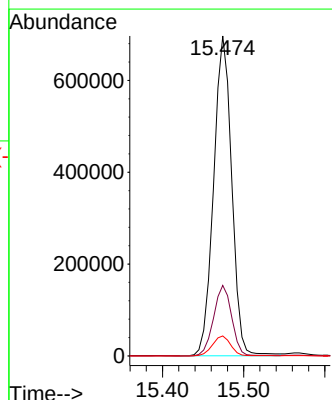
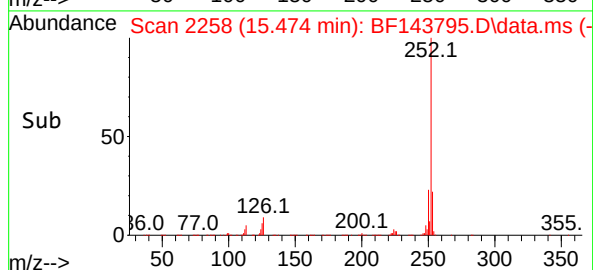
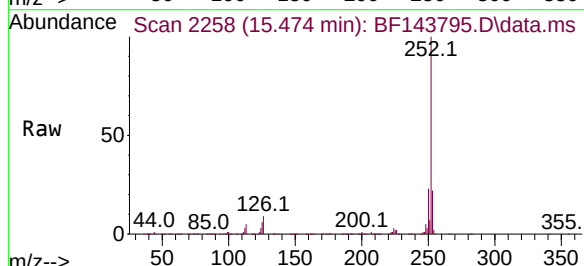
Tgt Ion:252 Resp: 1079512

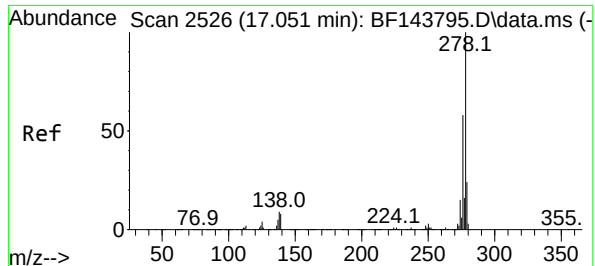
Ion Ratio Lower Upper

252 100

253 22.0 17.6 26.4

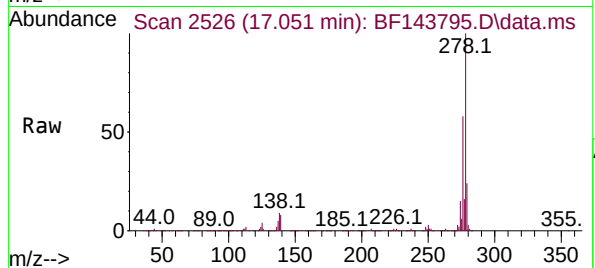
125 6.2 5.0 7.4





#91  
Dibenzo(a,h)anthracene  
Concen: 42.920 ng  
RT: 17.051 min Scan# 21  
Delta R.T. -0.018 min  
Lab File: BF143795.D  
Acq: 23 Sep 2025 13:59

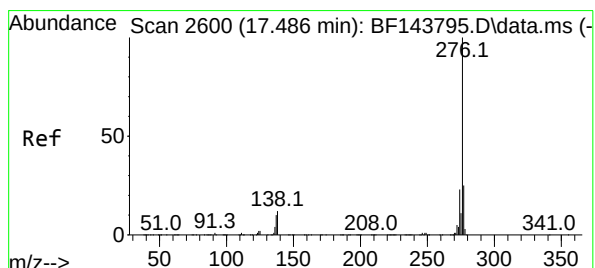
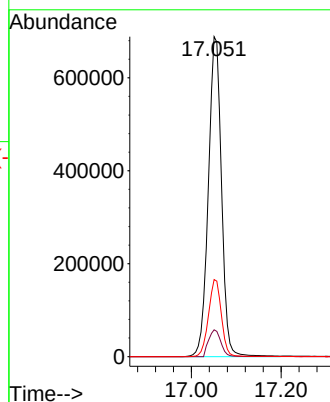
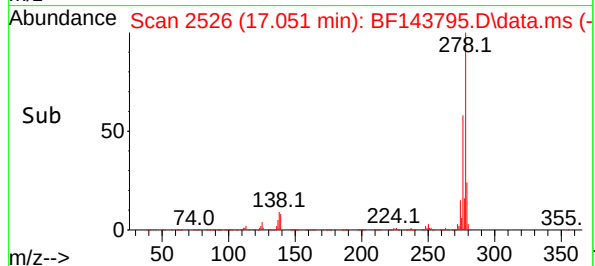
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICCC040



Tgt Ion:278 Resp: 1399884  
Ion Ratio Lower Upper  
278 100  
139 8.4 6.7 10.1  
279 24.1 19.3 28.9

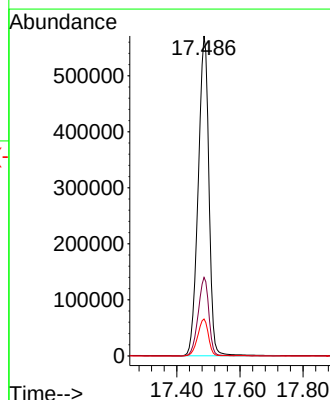
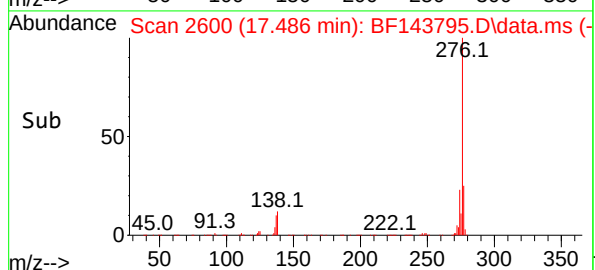
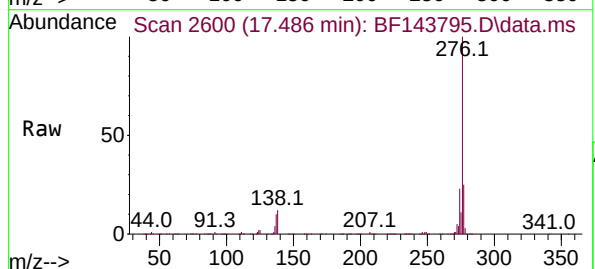
Manual Integrations  
APPROVED

Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#92  
Benzo(g,h,i)perylene  
Concen: 42.757 ng  
RT: 17.486 min Scan# 2600  
Delta R.T. -0.018 min  
Lab File: BF143795.D  
Acq: 23 Sep 2025 13:59

Tgt Ion:276 Resp: 1344334  
Ion Ratio Lower Upper  
276 100  
277 24.5 19.6 29.4  
138 11.5 9.2 13.8



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF092325\  
 Data File : BF143796.D  
 Acq On : 23 Sep 2025 14:28  
 Operator : RC/JU  
 Sample : SSTDICC050  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SSTDICC050

Manual Integrations  
 APPROVED

Reviewed By :Rahul Chavli 09/24/2025  
 Supervised By :Jagrut Upadhyay 09/24/2025

Quant Time: Sep 23 17:06:47 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF092325.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Sep 23 16:31:21 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| -----                         |        |      |          |         |       |          |
| Internal Standards            |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.887  | 152  | 138683   | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8            | 8.169  | 136  | 501953   | 20.000  | ng    | 0.00     |
| 39) Acenaphthene-d10          | 9.928  | 164  | 251921   | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10          | 11.416 | 188  | 388493   | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12              | 14.057 | 240  | 388120   | 20.000  | ng    | 0.00     |
| 86) Perylene-d12              | 15.533 | 264  | 541272   | 20.000  | ng    | 0.00     |
|                               |        |      |          |         |       |          |
| System Monitoring Compounds   |        |      |          |         |       |          |
| 5) 2-Fluorophenol             | 5.493  | 112  | 801520   | 93.013  | ng    | 0.00     |
| 7) Phenol-d6                  | 6.504  | 99   | 926468   | 91.106  | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 7.451  | 82   | 808554   | 101.372 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 10.716 | 330  | 354459   | 98.591  | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 9.245  | 172  | 1453709  | 85.274  | ng    | 0.00     |
| 79) Terphenyl-d14             | 12.998 | 244  | 1903421  | 96.285  | ng    | 0.00     |
|                               |        |      |          |         |       |          |
| Target Compounds              |        |      |          |         |       | Qvalue   |
| 2) 1,4-Dioxane                | 2.646  | 88   | 193379   | 47.331  | ng    | 98       |
| 3) Pyridine                   | 3.410  | 79   | 532244   | 48.261  | ng    | 100      |
| 4) n-Nitrosodimethylamine     | 3.357  | 42   | 268794   | 48.607  | ng    | 99       |
| 6) Aniline                    | 6.545  | 93   | 672706   | 46.995  | ng    | 99       |
| 8) 2-Chlorophenol             | 6.669  | 128  | 419160   | 47.967  | ng    | 100      |
| 9) Benzaldehyde               | 6.440  | 77   | 459911   | 53.250  | ng    | 98       |
| 10) Phenol                    | 6.522  | 94   | 531938m  | 46.401  | ng    |          |
| 11) bis(2-Chloroethyl)ether   | 6.622  | 93   | 423912   | 47.173  | ng    | 100      |
| 12) 1,3-Dichlorobenzene       | 6.828  | 146  | 466330   | 45.962  | ng    | 98       |
| 13) 1,4-Dichlorobenzene       | 6.904  | 146  | 464335   | 45.859  | ng    | 99       |
| 14) 1,2-Dichlorobenzene       | 7.057  | 146  | 442761   | 46.170  | ng    | 99       |
| 15) Benzyl Alcohol            | 7.022  | 79   | 348008   | 48.833  | ng    | 100      |
| 16) 2,2'-oxybis(1-Chloropr... | 7.157  | 45   | 1004151  | 47.124  | ng    | 99       |
| 17) 2-Methylphenol            | 7.128  | 107  | 325304   | 48.084  | ng    | 99       |
| 18) Hexachloroethane          | 7.404  | 117  | 167022   | 46.905  | ng    | 96       |
| 19) n-Nitroso-di-n-propyla... | 7.298  | 70   | 292083   | 46.054  | ng    | 98       |
| 20) 3+4-Methylphenols         | 7.287  | 107  | 394272   | 47.855  | ng    | # 90     |
| 22) Acetophenone              | 7.298  | 105  | 503776   | 45.695  | ng    | 99       |
| 24) Nitrobenzene              | 7.469  | 77   | 448291   | 49.320  | ng    | 98       |
| 25) Isophorone                | 7.704  | 82   | 782800   | 48.987  | ng    | 100      |
| 26) 2-Nitrophenol             | 7.787  | 139  | 188140   | 50.281  | ng    | 94       |
| 27) 2,4-Dimethylphenol        | 7.816  | 122  | 351504   | 49.214  | ng    | 100      |
| 28) bis(2-Chloroethoxy)met... | 7.916  | 93   | 492835   | 47.470  | ng    | 100      |
| 29) 2,4-Dichlorophenol        | 8.022  | 162  | 342962   | 48.801  | ng    | 99       |
| 30) 1,2,4-Trichlorobenzene    | 8.110  | 180  | 345360   | 47.353  | ng    | 100      |
| 31) Naphthalene               | 8.192  | 128  | 1112658  | 46.304  | ng    | 100      |
| 32) Benzoic acid              | 7.910  | 122  | 185973   | 53.967  | ng    | 96       |
| 33) 4-Chloroaniline           | 8.239  | 127  | 405365   | 48.005  | ng    | 100      |
| 34) Hexachlorobutadiene       | 8.310  | 225  | 258638   | 47.570  | ng    | 99       |
| 35) Caprolactam               | 8.604  | 113  | 92410    | 51.444  | ng    | 95       |
| 36) 4-Chloro-3-methylphenol   | 8.710  | 107  | 327629   | 49.707  | ng    | 97       |
| 37) 2-Methylnaphthalene       | 8.881  | 142  | 712848   | 46.524  | ng    | 99       |
| 38) 1-Methylnaphthalene       | 8.981  | 142  | 689609   | 47.022  | ng    | 100      |
| 40) 1,2,4,5-Tetrachloroben... | 9.045  | 216  | 351998   | 46.300  | ng    | 99       |
| 41) Hexachlorocyclopentadiene | 9.034  | 237  | 240402   | 49.894  | ng    | 98       |
| 43) 2,4,6-Trichlorophenol     | 9.157  | 196  | 238499   | 50.100  | ng    | 99       |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF092325\  
 Data File : BF143796.D  
 Acq On : 23 Sep 2025 14:28  
 Operator : RC/JU  
 Sample : SSTDICC050  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SSTDICC050

Manual Integrations  
 APPROVED

Reviewed By :Rahul Chavli 09/24/2025  
 Supervised By :Jagrut Upadhyay 09/24/2025

Quant Time: Sep 23 17:06:47 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF092325.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Sep 23 16:31:21 2025  
 Response via : Initial Calibration

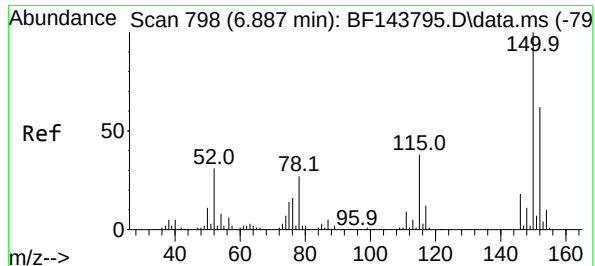
| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 44) 2,4,5-Trichlorophenol     | 9.192  | 196  | 239256   | 48.050 | ng    | 99       |
| 46) 1,1'-Biphenyl             | 9.345  | 154  | 838250   | 45.967 | ng    | 99       |
| 47) 2-Chloronaphthalene       | 9.375  | 162  | 678591   | 46.229 | ng    | 99       |
| 48) 2-Nitroaniline            | 9.463  | 65   | 239106   | 53.895 | ng    | 99       |
| 49) Acenaphthylene            | 9.786  | 152  | 943926   | 46.711 | ng    | 100      |
| 50) Dimethylphthalate         | 9.639  | 163  | 738918   | 48.124 | ng    | 100      |
| 51) 2,6-Dinitrotoluene        | 9.704  | 165  | 141300   | 56.010 | ng    | 98       |
| 52) Acenaphthene              | 9.957  | 154  | 613218   | 46.113 | ng    | 99       |
| 53) 3-Nitroaniline            | 9.875  | 138  | 163244   | 53.384 | ng    | 100      |
| 54) 2,4-Dinitrophenol         | 9.975  | 184  | 41616    | 49.728 | ng    | # 73     |
| 55) Dibenzofuran              | 10.133 | 168  | 867169   | 46.115 | ng    | 100      |
| 56) 4-Nitrophenol             | 10.022 | 139  | 121266   | 49.212 | ng    | 95       |
| 57) 2,4-Dinitrotoluene        | 10.104 | 165  | 185701   | 49.496 | ng    | 99       |
| 58) Fluorene                  | 10.475 | 166  | 632710   | 45.259 | ng    | 99       |
| 59) 2,3,4,6-Tetrachlorophenol | 10.245 | 232  | 223693   | 52.440 | ng    | 99       |
| 60) Diethylphthalate          | 10.345 | 149  | 692482   | 48.178 | ng    | 99       |
| 61) 4-Chlorophenyl-phenyle... | 10.469 | 204  | 332223   | 46.640 | ng    | 98       |
| 62) 4-Nitroaniline            | 10.486 | 138  | 152165   | 52.923 | ng    | 99       |
| 63) Azobenzene                | 10.628 | 77   | 722936   | 47.725 | ng    | 99       |
| 65) 4,6-Dinitro-2-methylph... | 10.516 | 198  | 72195    | 50.124 | ng    | 90       |
| 66) n-Nitrosodiphenylamine    | 10.586 | 169  | 603084   | 47.203 | ng    | 99       |
| 67) 4-Bromophenyl-phenylether | 10.957 | 248  | 324243   | 48.975 | ng    | 99       |
| 68) Hexachlorobenzene         | 11.022 | 284  | 433735   | 47.539 | ng    | 99       |
| 69) Atrazine                  | 11.110 | 200  | 180897   | 48.894 | ng    | 98       |
| 70) Pentachlorophenol         | 11.216 | 266  | 231733   | 51.024 | ng    | 99       |
| 71) Phenanthrene              | 11.439 | 178  | 920438   | 46.149 | ng    | 100      |
| 72) Anthracene                | 11.492 | 178  | 936801   | 46.825 | ng    | 99       |
| 73) Carbazole                 | 11.639 | 167  | 814499   | 46.564 | ng    | 100      |
| 74) Di-n-butylphthalate       | 11.975 | 149  | 990005   | 49.211 | ng    | 100      |
| 75) Fluoranthene              | 12.627 | 202  | 926047   | 46.163 | ng    | 99       |
| 77) Benzidine                 | 12.751 | 184  | 553563   | 58.531 | ng    | 99       |
| 78) Pyrene                    | 12.857 | 202  | 960254   | 50.323 | ng    | 99       |
| 80) Butylbenzylphthalate      | 13.474 | 149  | 356288   | 53.969 | ng    | 99       |
| 81) Benzo(a)anthracene        | 14.045 | 228  | 1009406  | 48.411 | ng    | 99       |
| 82) 3,3'-Dichlorobenzidine    | 14.010 | 252  | 445355   | 49.304 | ng    | 100      |
| 83) Chrysene                  | 14.086 | 228  | 882028   | 46.750 | ng    | 100      |
| 84) Bis(2-ethylhexyl)phtha... | 14.039 | 149  | 489947   | 50.632 | ng    | 100      |
| 85) Di-n-octyl phthalate      | 14.651 | 149  | 875478   | 49.877 | ng    | 99       |
| 87) Indeno(1,2,3-cd)pyrene    | 17.033 | 276  | 2041373  | 49.707 | ng    | 99       |
| 88) Benzo(b)fluoranthene      | 15.104 | 252  | 1356316  | 49.206 | ng    | 100      |
| 89) Benzo(k)fluoranthene      | 15.133 | 252  | 1347591  | 48.662 | ng    | 100      |
| 90) Benzo(a)pyrene            | 15.474 | 252  | 1283604  | 49.541 | ng    | 100      |
| 91) Dibenzo(a,h)anthracene    | 17.057 | 278  | 1673679  | 49.826 | ng    | 99       |
| 92) Benzo(g,h,i)perylene      | 17.486 | 276  | 1623902  | 50.151 | ng    | 100      |

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

**Instrument :**  
BNA\_F  
**ClientSampleId :**  
SSTDICC050

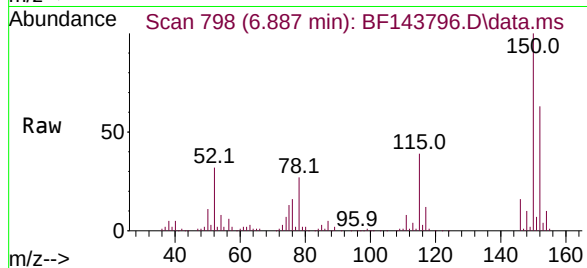
## Manual Integrations APPROVED

[illegible]



#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.887 min Scan# 79  
Delta R.T. -0.000 min  
Lab File: BF143796.D  
Acq: 23 Sep 2025 14:28

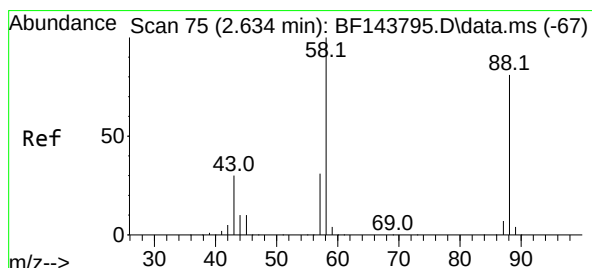
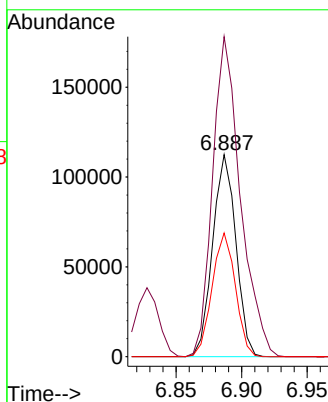
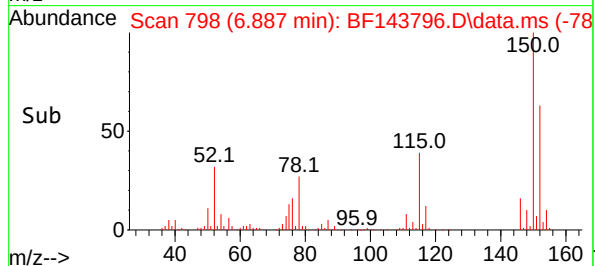
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC050



Tgt Ion:152 Resp: 138683  
Ion Ratio Lower Upper  
152 100  
150 158.4 129.6 194.4  
115 61.2 49.0 73.4

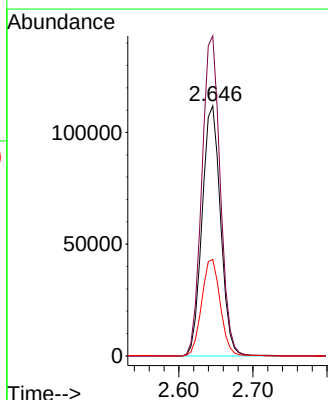
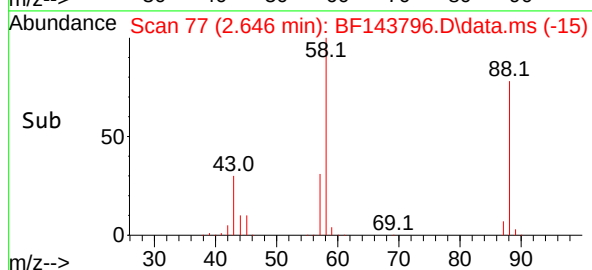
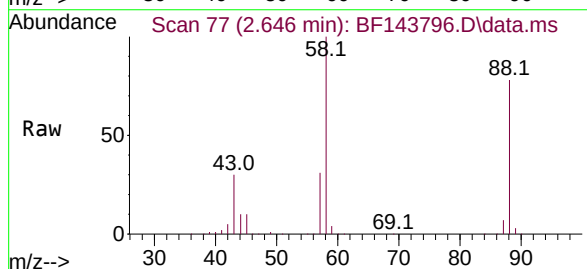
Manual Integrations  
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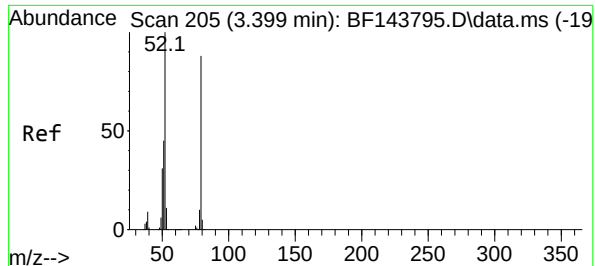
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#2  
1,4-Dioxane  
Concen: 47.331 ng  
RT: 2.646 min Scan# 77  
Delta R.T. 0.012 min  
Lab File: BF143796.D  
Acq: 23 Sep 2025 14:28

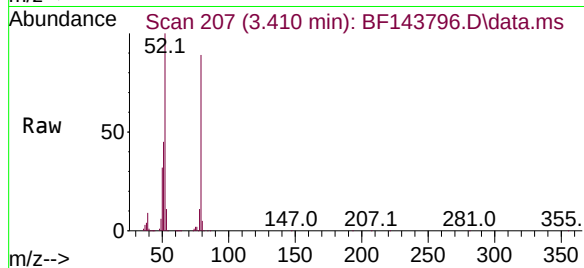
Tgt Ion: 88 Resp: 193379  
Ion Ratio Lower Upper  
88 100  
58 127.4 99.4 149.2  
43 38.9 30.6 45.8





#3  
Pyridine  
Concen: 48.261 ng  
RT: 3.410 min Scan# 205  
Delta R.T. 0.012 min  
Lab File: BF143796.D  
Acq: 23 Sep 2025 14:28

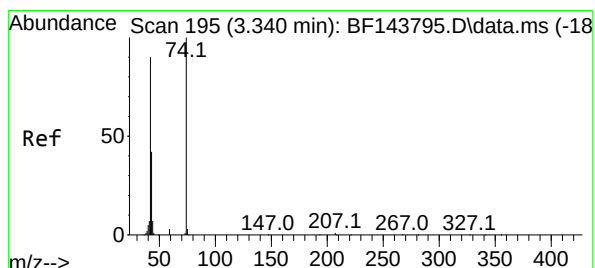
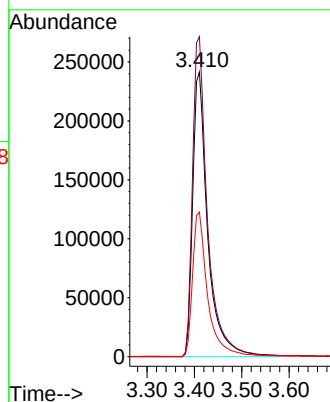
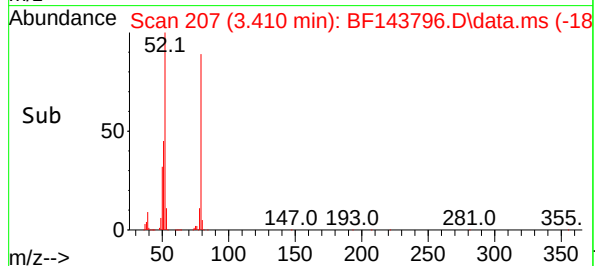
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC050



Tgt Ion: 79 Resp: 532244  
Ion Ratio Lower Upper  
79 100  
52 112.5 90.5 135.7  
51 50.8 40.6 61.0

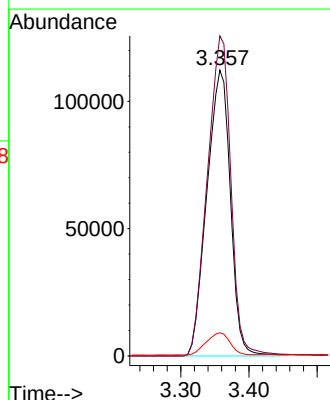
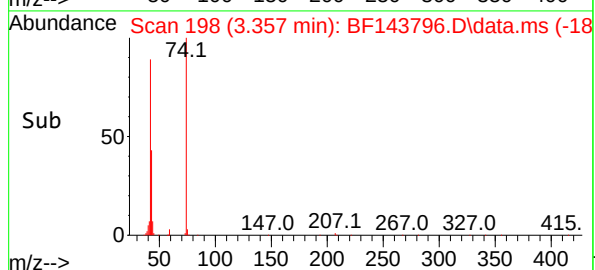
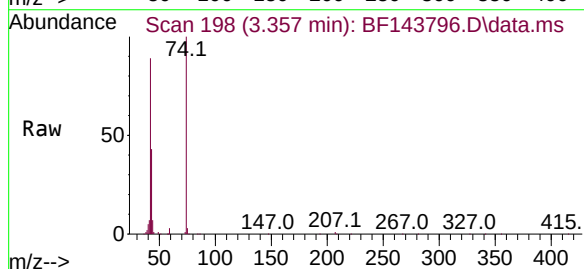
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Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025

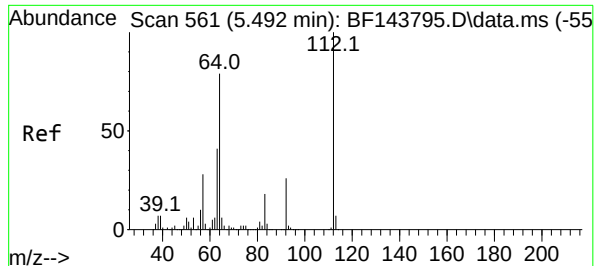


#4  
n-Nitrosodimethylamine  
Concen: 48.607 ng  
RT: 3.357 min Scan# 198  
Delta R.T. 0.000 min  
Lab File: BF143796.D  
Acq: 23 Sep 2025 14:28

Tgt Ion: 42 Resp: 268794  
Ion Ratio Lower Upper  
42 100  
74 112.0 89.1 133.7  
44 8.1 6.4 9.6

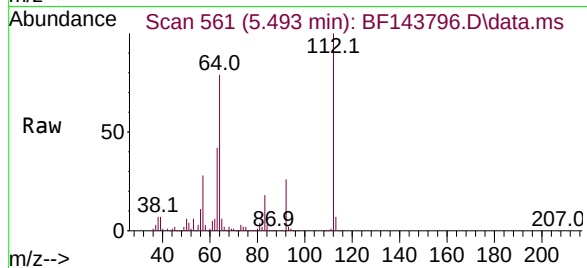






#5  
2-Fluorophenol  
Concen: 93.013 ng  
RT: 5.493 min Scan# 561  
Delta R.T. -0.006 min  
Lab File: BF143796.D  
Acq: 23 Sep 2025 14:28

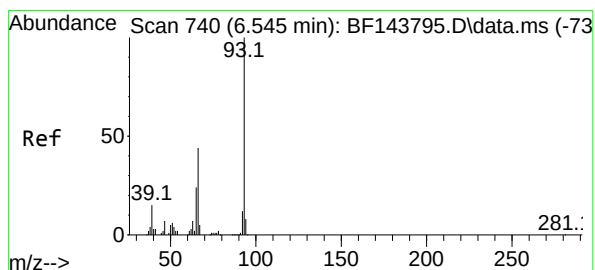
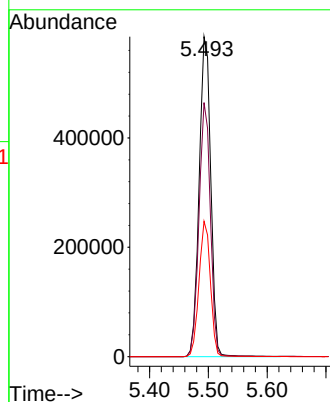
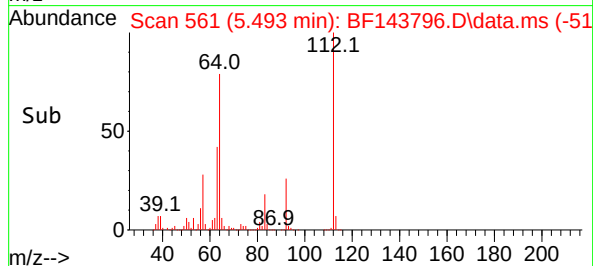
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC050



Tgt Ion:112 Resp: 801520  
Ion Ratio Lower Upper  
112 100  
64 79.4 63.0 94.4  
63 42.3 32.6 49.0

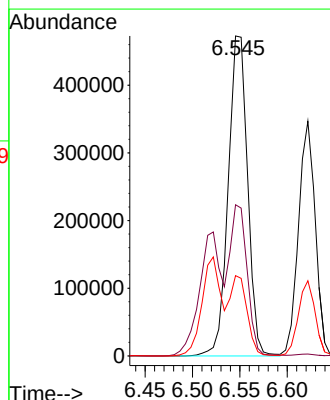
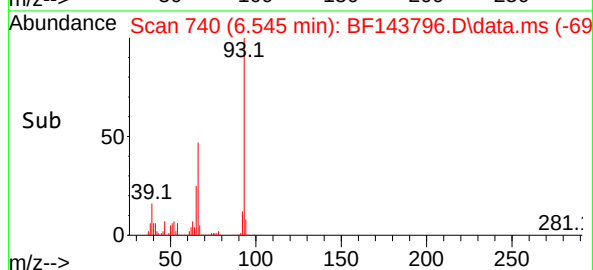
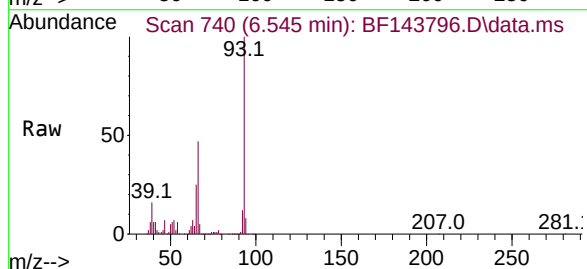
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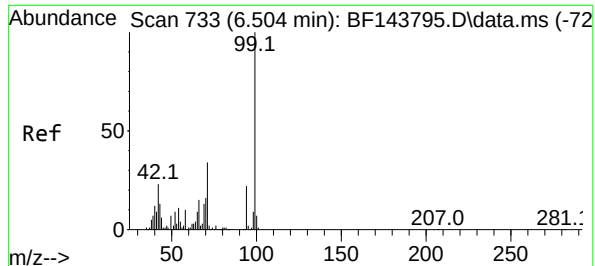
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#6  
Aniline  
Concen: 46.995 ng  
RT: 6.545 min Scan# 740  
Delta R.T. -0.006 min  
Lab File: BF143796.D  
Acq: 23 Sep 2025 14:28

Tgt Ion: 93 Resp: 672706  
Ion Ratio Lower Upper  
93 100  
66 47.2 37.1 55.7  
65 25.1 19.4 29.0





#7

Phenol-d6

Concen: 91.106 ng

RT: 6.504 min Scan# 733

Delta R.T. -0.006 min

Lab File: BF143796.D

Acq: 23 Sep 2025 14:28

Instrument :

BNA\_F

ClientSampleId :

SSTDICC050

Tgt Ion: 99 Resp: 926468

Ion Ratio Lower Upper

99 100

42 24.1 18.6 28.0

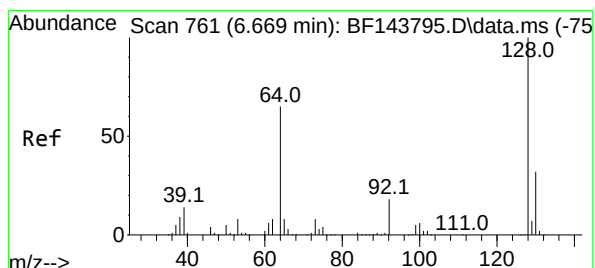
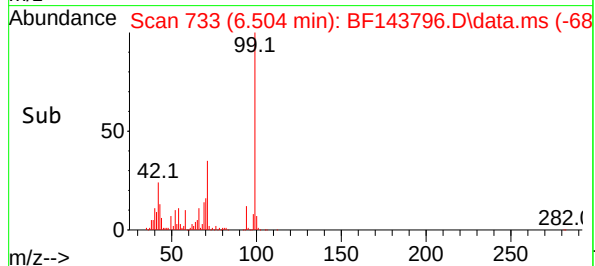
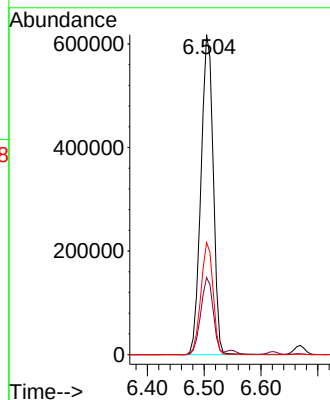
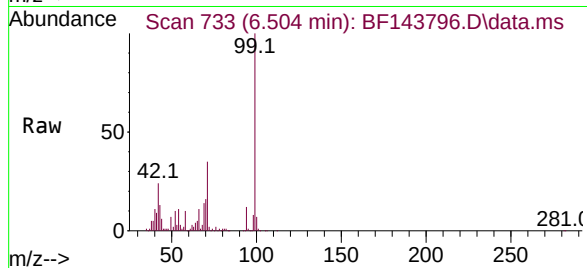
71 35.0 27.0 40.4

Manual Integrations

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Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#8

2-Chlorophenol

Concen: 47.967 ng

RT: 6.669 min Scan# 761

Delta R.T. 0.000 min

Lab File: BF143796.D

Acq: 23 Sep 2025 14:28

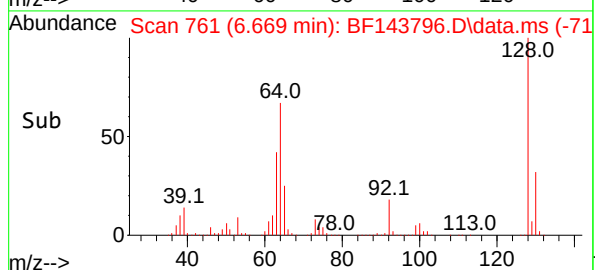
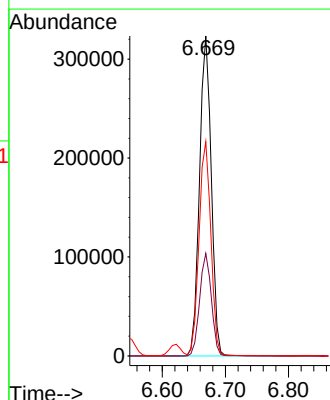
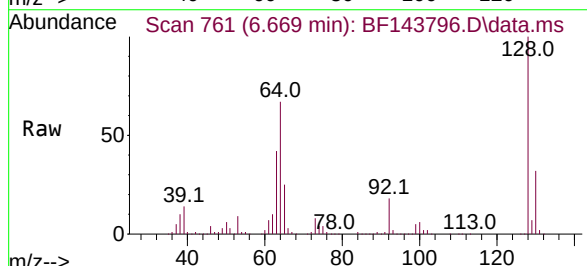
Tgt Ion:128 Resp: 419160

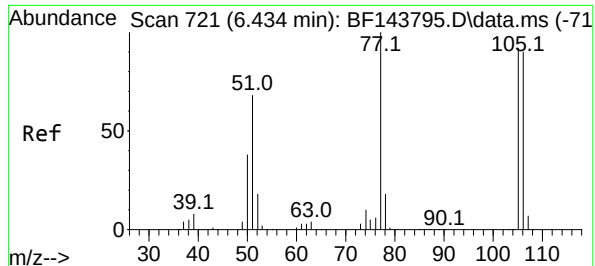
Ion Ratio Lower Upper

128 100

130 32.0 12.2 52.2

64 66.9 46.5 86.5





#9

Benzaldehyde

Concen: 53.250 ng

RT: 6.440 min Scan# 71

Delta R.T. 0.000 min

Lab File: BF143796.D

Acq: 23 Sep 2025 14:28

Instrument :

BNA\_F

ClientSampleId :

SSTDICC050

Tgt Ion: 77 Resp: 45991

Ion Ratio Lower Upper

77 100

105 93.9 71.8 111.8

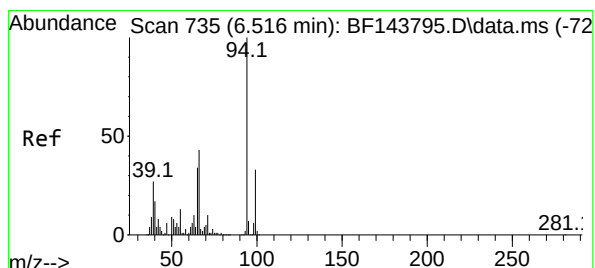
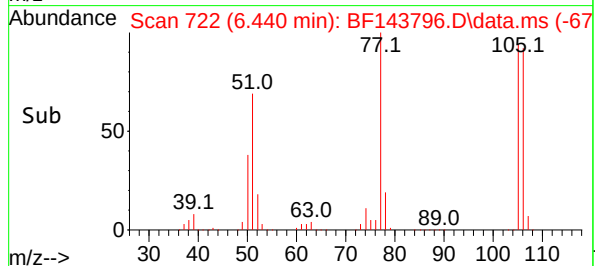
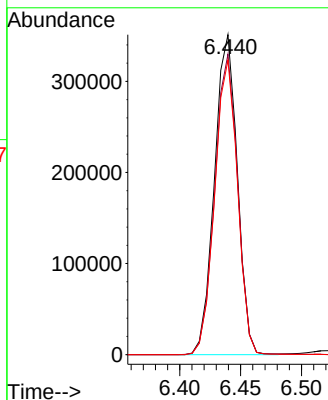
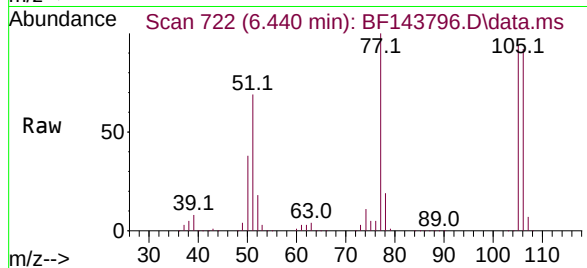
106 92.0 69.8 109.8

Manual Integrations

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Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#10

Phenol

Concen: 46.401 ng m

RT: 6.522 min Scan# 736

Delta R.T. -0.006 min

Lab File: BF143796.D

Acq: 23 Sep 2025 14:28

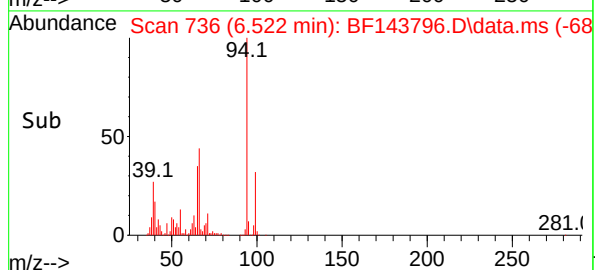
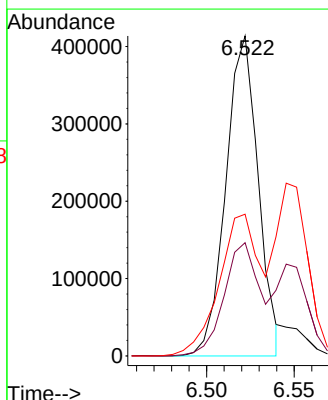
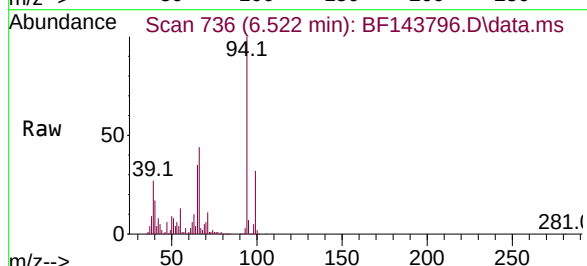
Tgt Ion: 94 Resp: 531938

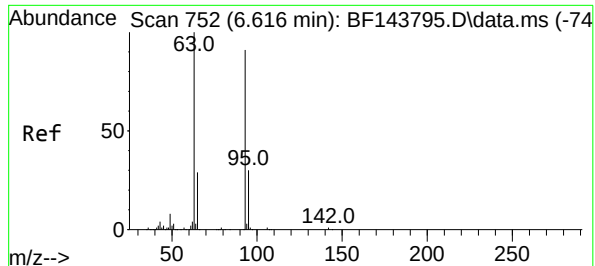
Ion Ratio Lower Upper

94 100

65 35.4 14.2 54.2

66 44.3 24.1 64.1





#11

bis(2-Chloroethyl)ether

Concen: 47.173 ng

RT: 6.622 min Scan# 752

Delta R.T. 0.000 min

Lab File: BF143796.D

Acq: 23 Sep 2025 14:28

Instrument :

BNA\_F

ClientSampleId :

SSTDICC050

Tgt Ion: 93 Resp: 423912

Ion Ratio Lower Upper

93 100

63 108.9 89.2 129.2

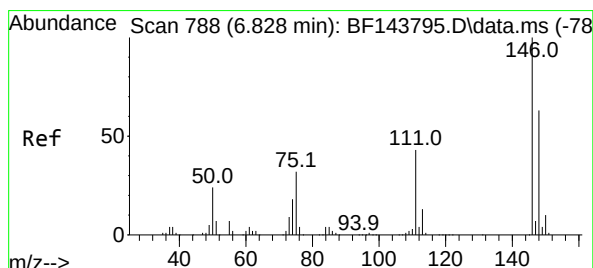
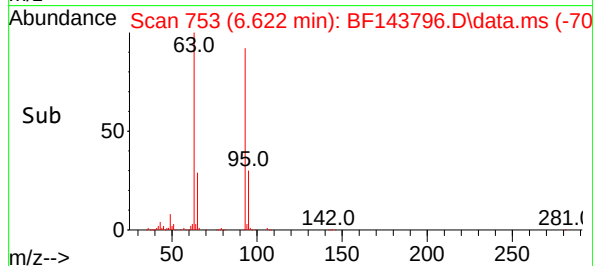
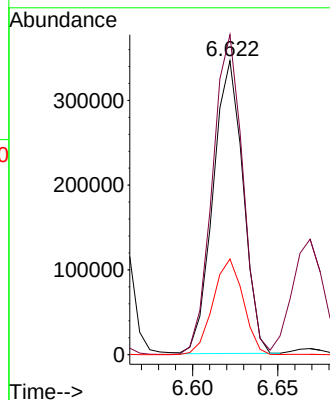
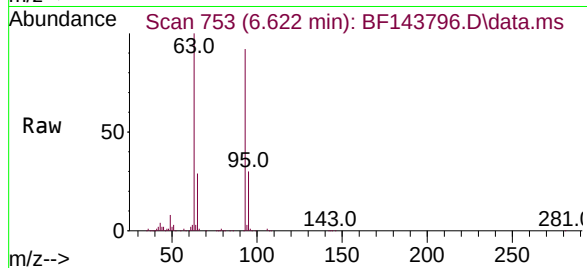
95 32.5 12.9 52.9

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Supervised By :Jagrut Upadhyay 09/24/2025



#12

1,3-Dichlorobenzene

Concen: 45.962 ng

RT: 6.828 min Scan# 788

Delta R.T. 0.000 min

Lab File: BF143796.D

Acq: 23 Sep 2025 14:28

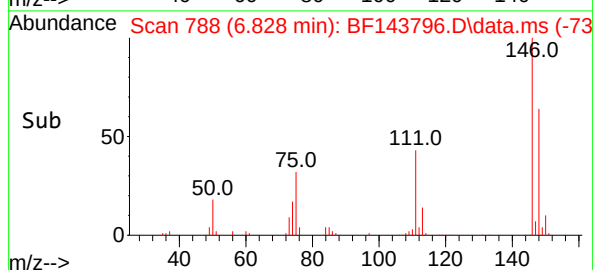
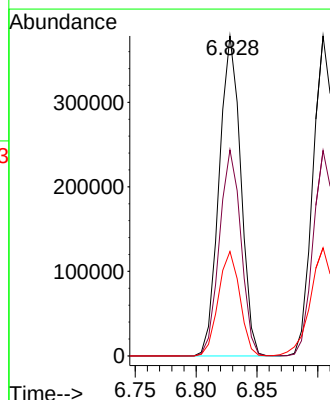
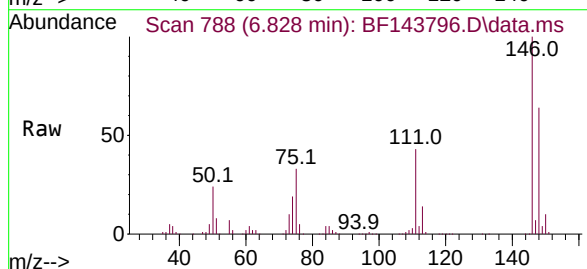
Tgt Ion:146 Resp: 466330

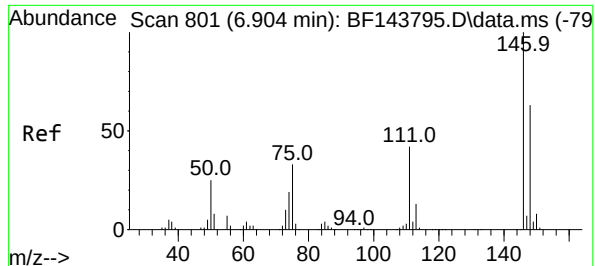
Ion Ratio Lower Upper

146 100

148 64.4 50.4 75.6

75 32.6 25.6 38.4





#13

1,4-Dichlorobenzene

Concen: 45.859 ng

RT: 6.904 min Scan# 801

Delta R.T. 0.000 min

Lab File: BF143796.D

Acq: 23 Sep 2025 14:28

Instrument :

BNA\_F

ClientSampleId :

SSTDICC050

Tgt Ion:146 Resp: 464335

Ion Ratio Lower Upper

146 100

148 64.2 50.7 76.1

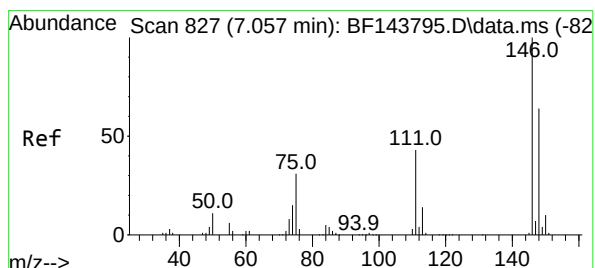
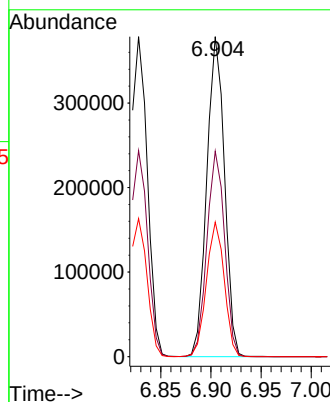
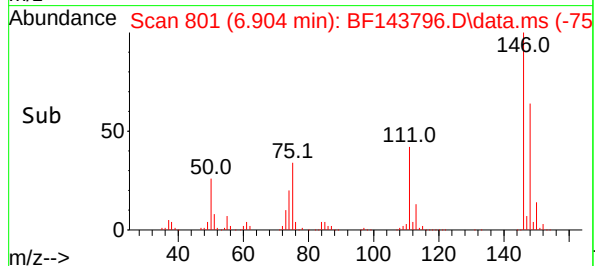
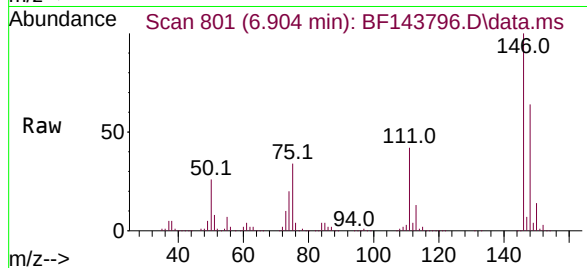
111 42.0 33.4 50.2

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Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#14

1,2-Dichlorobenzene

Concen: 46.170 ng

RT: 7.057 min Scan# 827

Delta R.T. 0.000 min

Lab File: BF143796.D

Acq: 23 Sep 2025 14:28

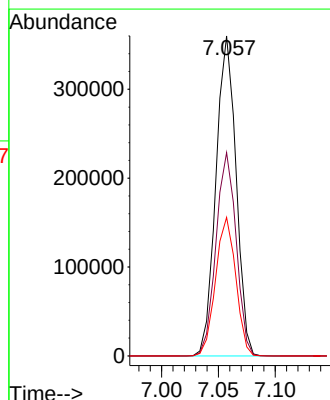
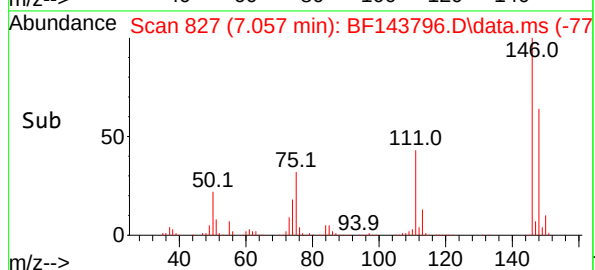
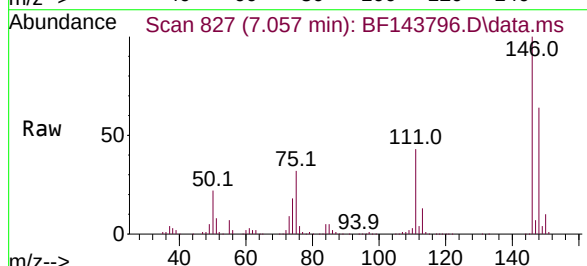
Tgt Ion:146 Resp: 442761

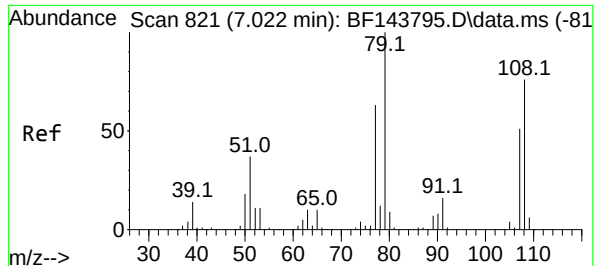
Ion Ratio Lower Upper

146 100

148 63.6 51.1 76.7

111 43.3 34.3 51.5





#15

Benzyl Alcohol

Concen: 48.833 ng

RT: 7.022 min Scan# 821

Delta R.T. -0.006 min

Lab File: BF143796.D

Acq: 23 Sep 2025 14:28

Instrument :

BNA\_F

ClientSampleId :

SSTDICC050

Tgt Ion: 79 Resp: 348008

Ion Ratio Lower Upper

79 100

108 75.6 60.5 90.7

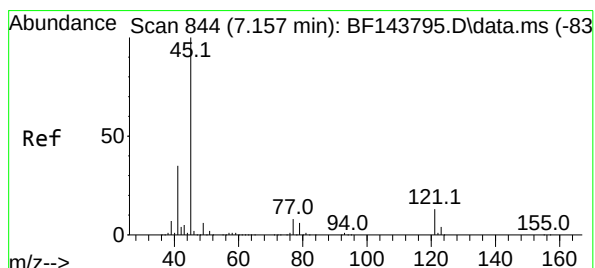
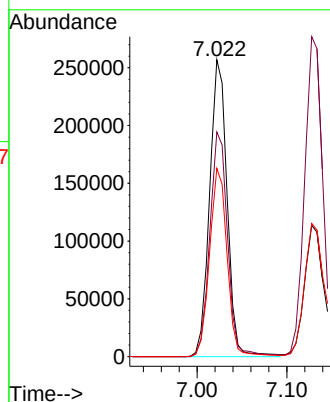
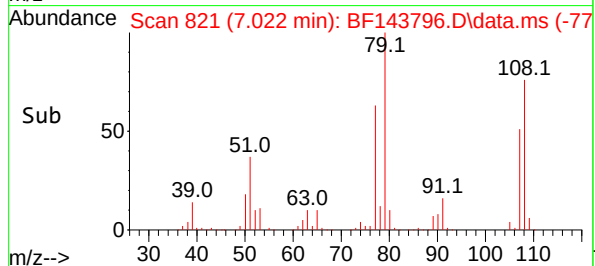
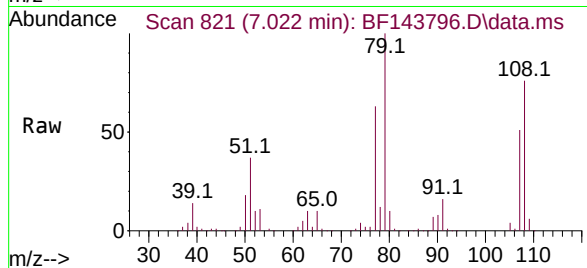
77 63.4 50.3 75.5

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Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#16

2,2'-oxybis(1-Chloropropane)

Concen: 47.124 ng

RT: 7.157 min Scan# 844

Delta R.T. 0.000 min

Lab File: BF143796.D

Acq: 23 Sep 2025 14:28

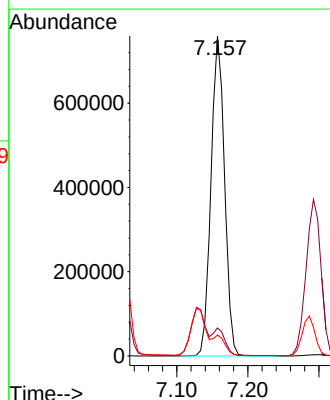
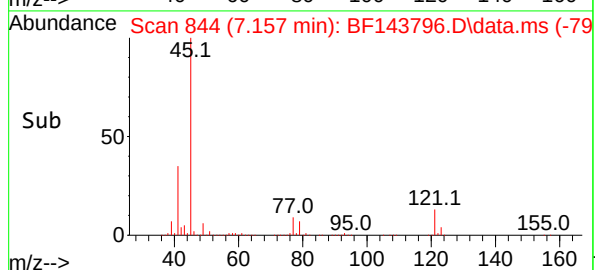
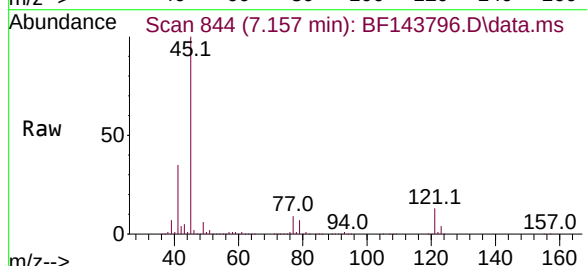
Tgt Ion: 45 Resp: 1004151

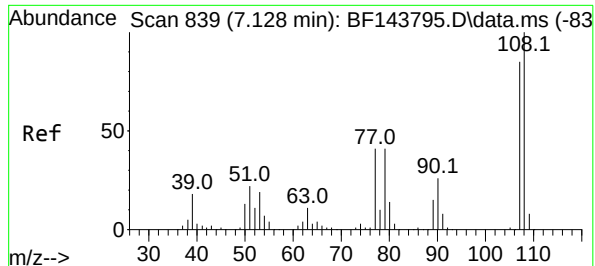
Ion Ratio Lower Upper

45 100

77 8.8 0.0 28.5

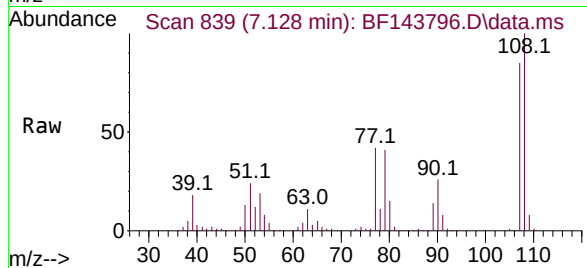
79 6.5 0.0 26.3





#17  
2-Methylphenol  
Concen: 48.084 ng  
RT: 7.128 min Scan# 839  
Delta R.T. -0.006 min  
Lab File: BF143796.D  
Acq: 23 Sep 2025 14:28

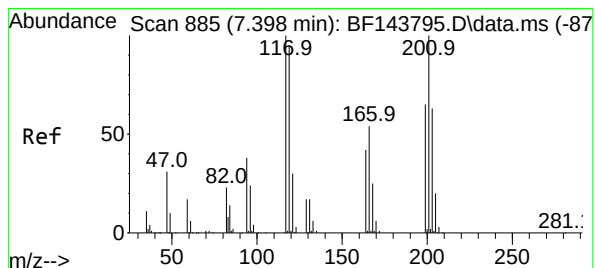
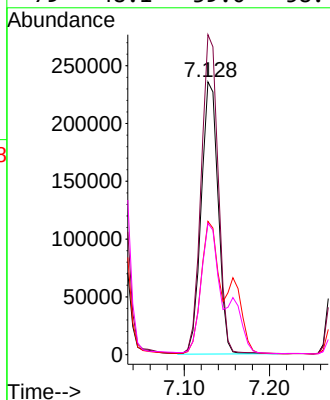
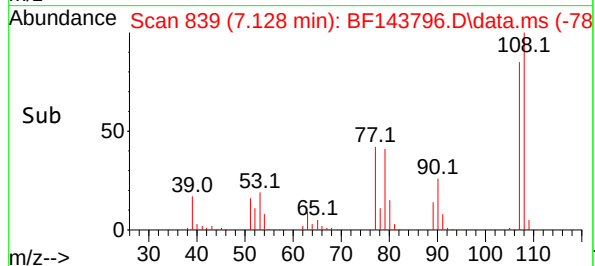
Instrument :  
BNA\_F  
Client Sample Id :  
SSTDICC050



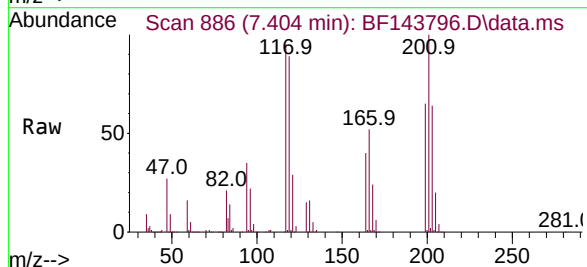
Tgt Ion:107 Resp: 325304  
Ion Ratio Lower Upper  
107 100  
108 117.3 94.2 141.4  
77 48.8 38.6 58.0  
79 48.1 39.0 58.4

Manual Integrations  
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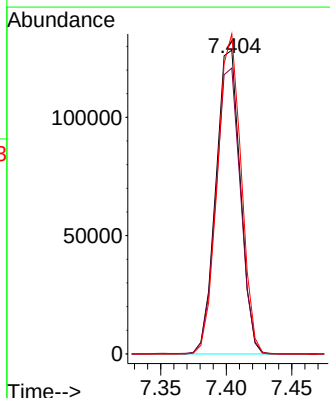
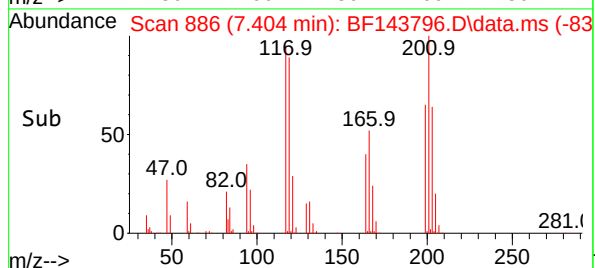
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025

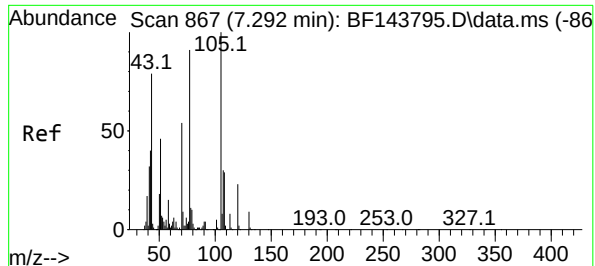


#18  
Hexachloroethane  
Concen: 46.905 ng  
RT: 7.404 min Scan# 886  
Delta R.T. 0.000 min  
Lab File: BF143796.D  
Acq: 23 Sep 2025 14:28



Tgt Ion:117 Resp: 167022  
Ion Ratio Lower Upper  
117 100  
119 94.1 76.2 114.2  
201 105.4 79.7 119.5





#19

n-Nitroso-di-n-propylamine

Concen: 46.054 ng

RT: 7.298 min Scan# 80

Delta R.T. -0.006 min

Lab File: BF143796.D

Acq: 23 Sep 2025 14:28

Instrument :

BNA\_F

ClientSampleId :

SSTDICC050

Tgt Ion: 70 Resp: 292083

Ion Ratio Lower Upper

70 100

42 75.8 59.4 89.0

101 8.5 7.1 10.7

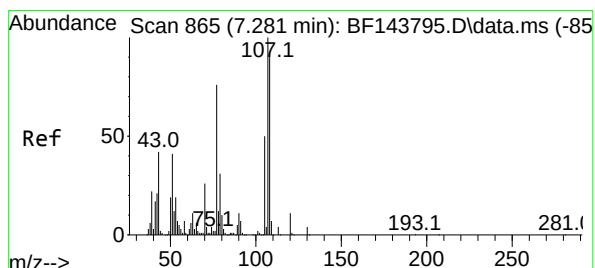
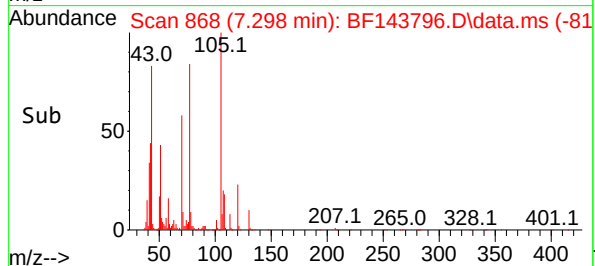
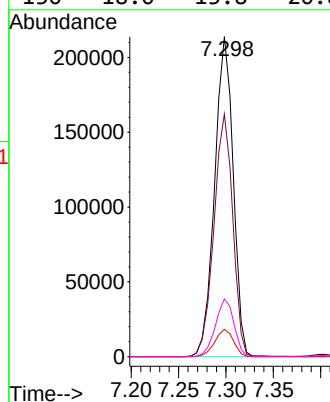
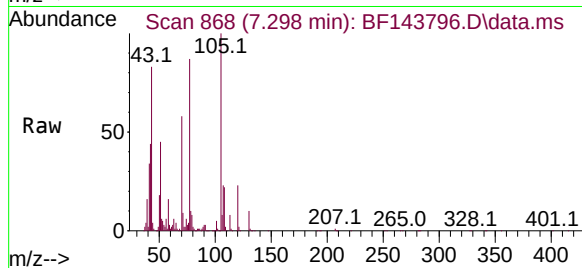
130 18.0 13.8 20.8

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#20

3+4-Methylphenols

Concen: 47.855 ng

RT: 7.287 min Scan# 866

Delta R.T. 0.000 min

Lab File: BF143796.D

Acq: 23 Sep 2025 14:28

Tgt Ion:107 Resp: 394272

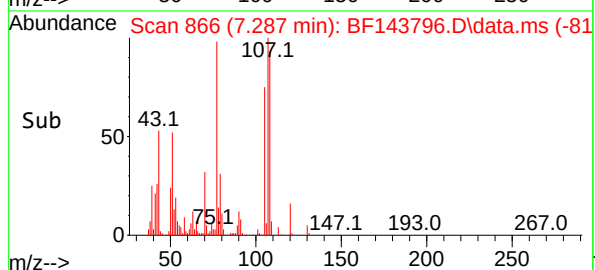
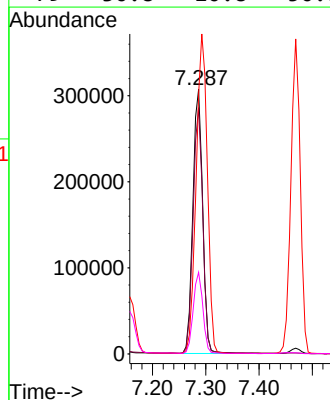
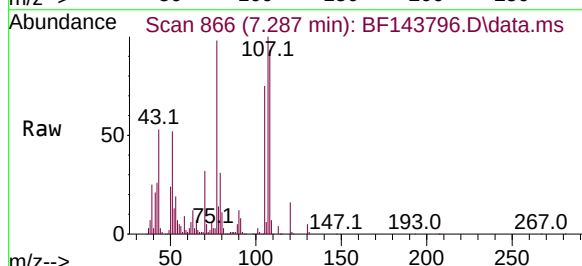
Ion Ratio Lower Upper

107 100

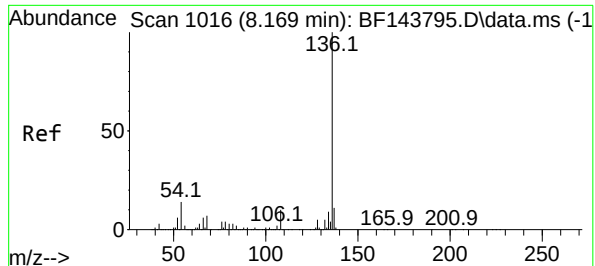
108 93.1 72.5 112.5

77 98.0 56.2 96.2#

79 30.8 10.8 50.8

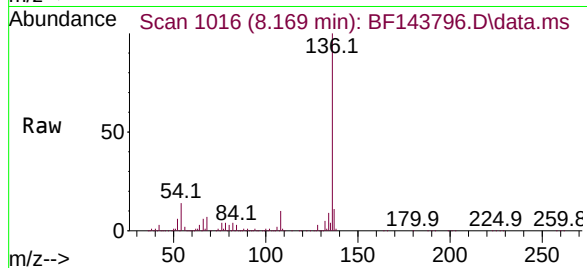






#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.169 min Scan# 1016  
Delta R.T. -0.000 min  
Lab File: BF143796.D  
Acq: 23 Sep 2025 14:28

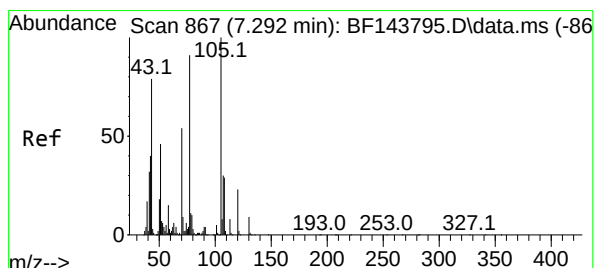
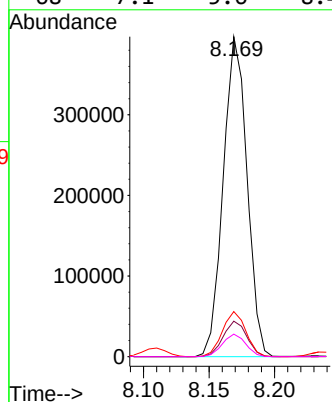
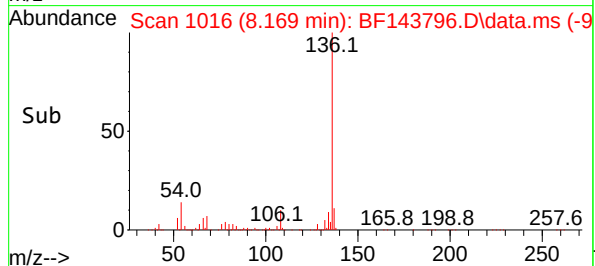
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC050



Tgt Ion:136 Resp: 501953  
Ion Ratio Lower Upper  
136 100  
137 11.1 9.0 13.4  
54 14.1 11.2 16.8  
68 7.1 5.6 8.4

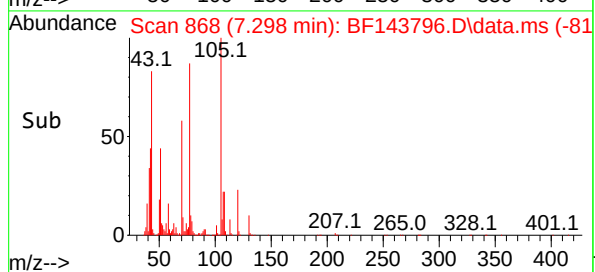
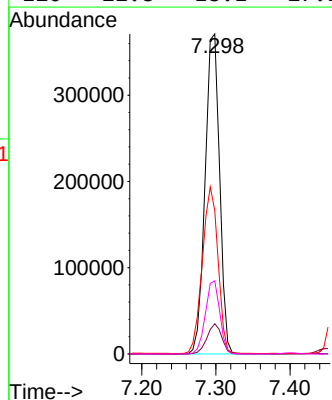
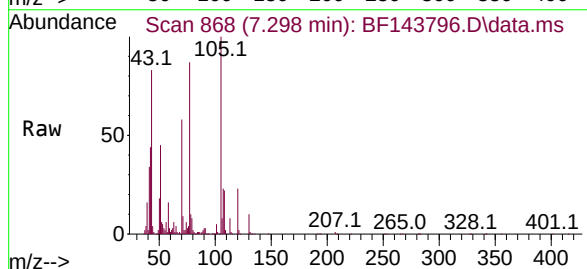
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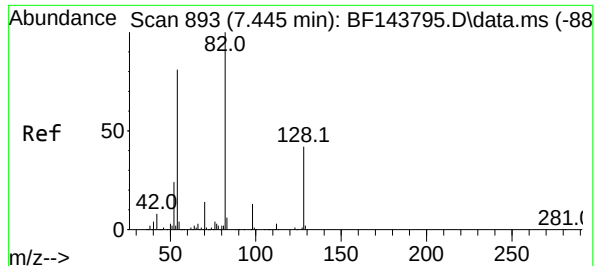
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#22  
Acetophenone  
Concen: 45.695 ng  
RT: 7.298 min Scan# 868  
Delta R.T. 0.000 min  
Lab File: BF143796.D  
Acq: 23 Sep 2025 14:28

Tgt Ion:105 Resp: 503776  
Ion Ratio Lower Upper  
105 100  
71 9.4 7.0 10.4  
51 44.8 36.6 55.0  
120 22.8 18.1 27.1





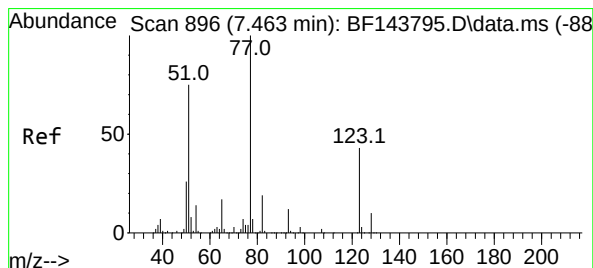
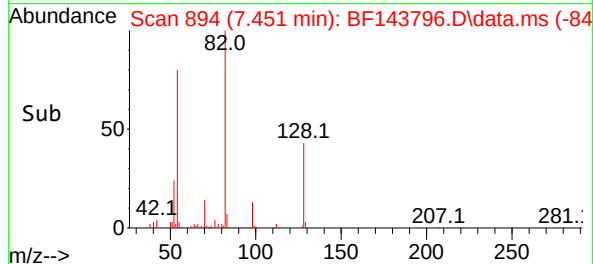
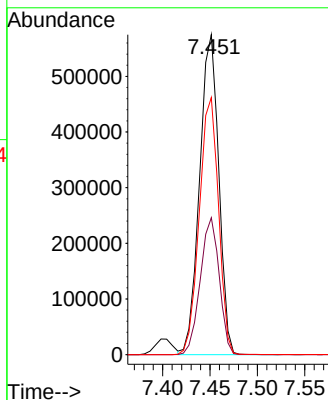
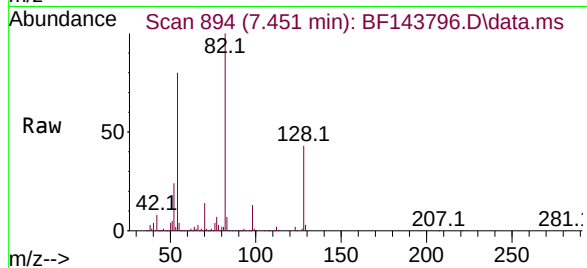
#23  
Nitrobenzene-d5  
Concen: 101.372 ng  
RT: 7.451 min Scan# 894  
Delta R.T. 0.000 min  
Lab File: BF143796.D  
Acq: 23 Sep 2025 14:28

Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC050

Tgt Ion: 82 Resp: 808554  
Ion Ratio Lower Upper  
82 100  
128 42.8 33.3 49.9  
54 80.3 64.2 96.4

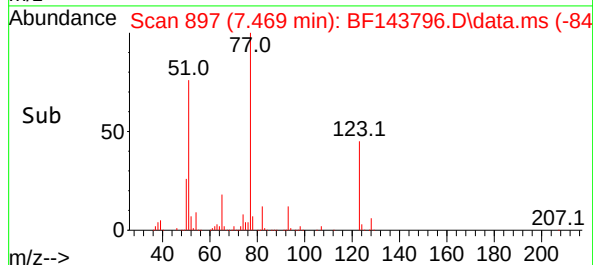
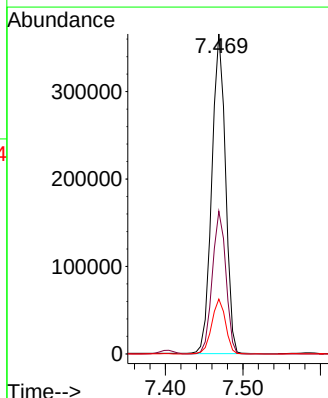
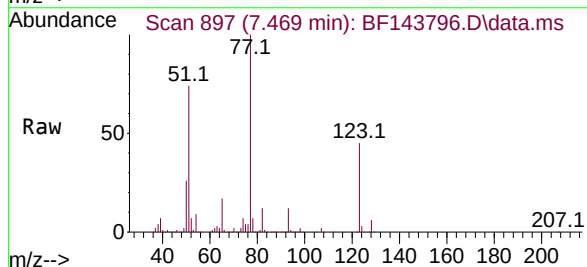
Manual Integrations  
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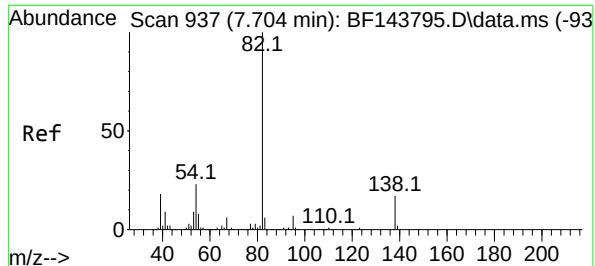
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#24  
Nitrobenzene  
Concen: 49.320 ng  
RT: 7.469 min Scan# 897  
Delta R.T. -0.006 min  
Lab File: BF143796.D  
Acq: 23 Sep 2025 14:28

Tgt Ion: 77 Resp: 448291  
Ion Ratio Lower Upper  
77 100  
123 44.6 34.0 51.0  
65 17.1 13.5 20.3





#25

Isophorone

Concen: 48.987 ng

RT: 7.704 min Scan# 937

Delta R.T. -0.006 min

Lab File: BF143796.D

Acq: 23 Sep 2025 14:28

Instrument :

BNA\_F

ClientSampleId :

SSTDICC050

Tgt Ion: 82 Resp: 782800

Ion Ratio Lower Upper

82 100

95 6.9 5.4 8.2

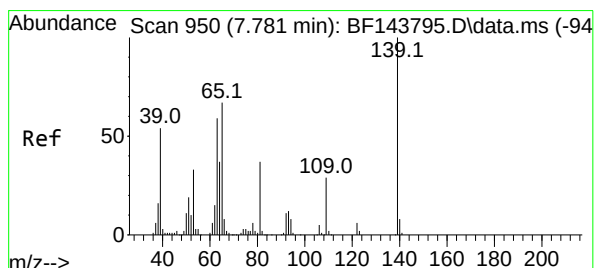
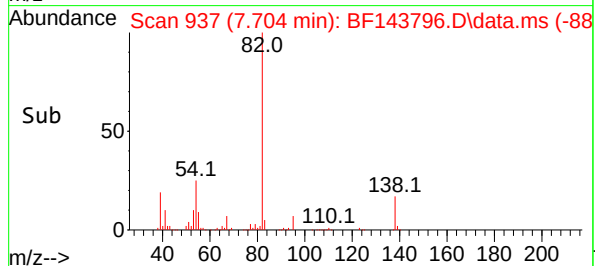
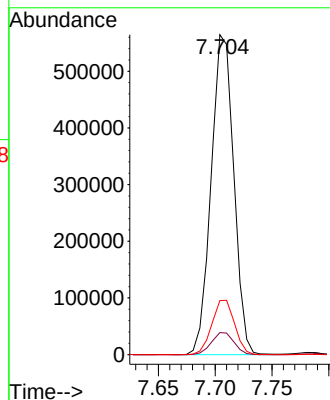
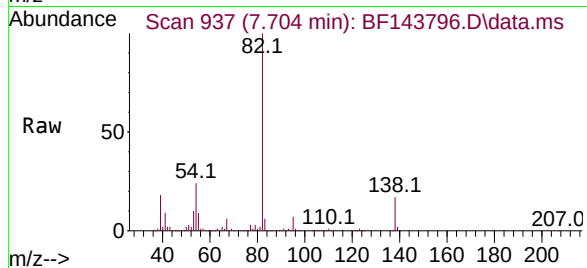
138 16.9 13.7 20.5

Manual Integrations

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Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#26

2-Nitrophenol

Concen: 50.281 ng

RT: 7.787 min Scan# 951

Delta R.T. 0.001 min

Lab File: BF143796.D

Acq: 23 Sep 2025 14:28

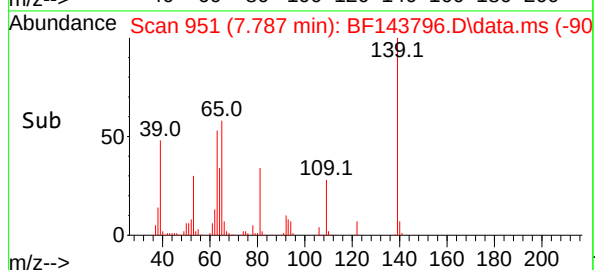
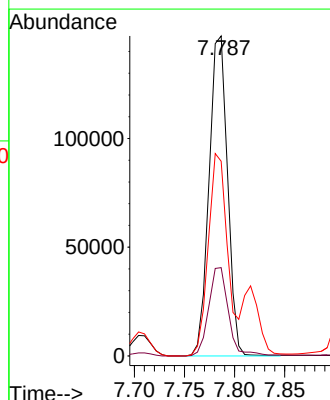
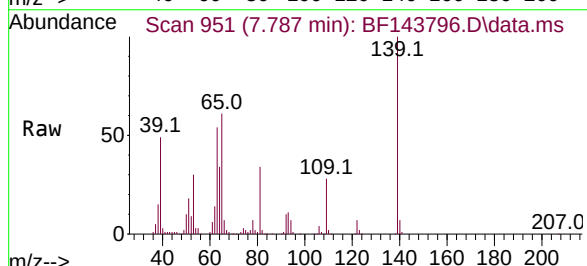
Tgt Ion:139 Resp: 188140

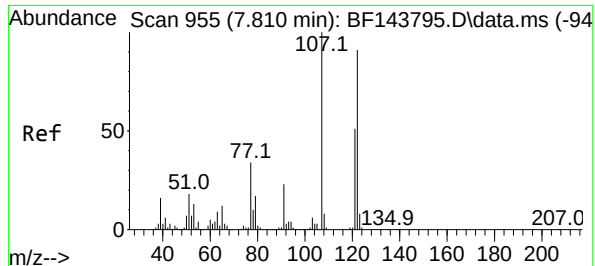
Ion Ratio Lower Upper

139 100

109 27.6 23.3 34.9

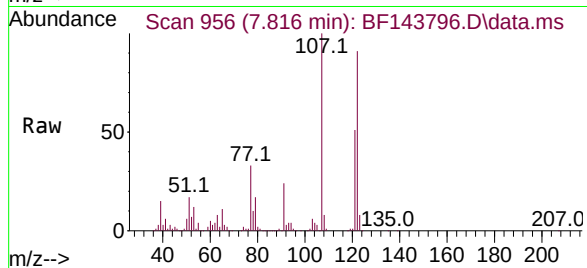
65 60.8 53.8 80.6





#27  
2,4-Dimethylphenol  
Concen: 49.214 ng  
RT: 7.816 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: BF143796.D  
Acq: 23 Sep 2025 14:28

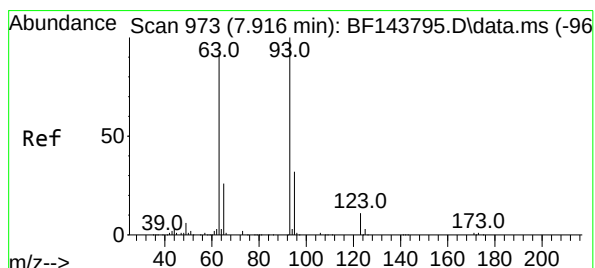
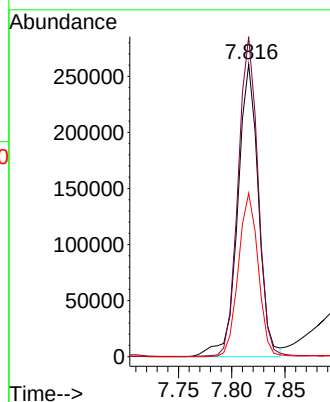
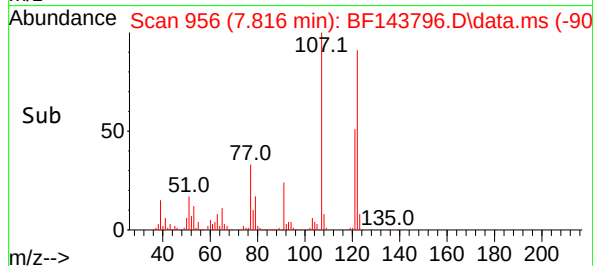
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC050



Tgt Ion:122 Resp: 351504  
Ion Ratio Lower Upper  
122 100  
107 109.4 87.5 131.3  
121 55.9 44.2 66.4

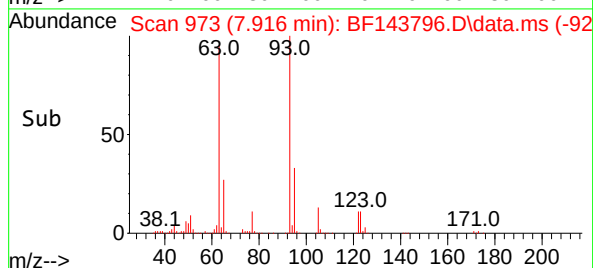
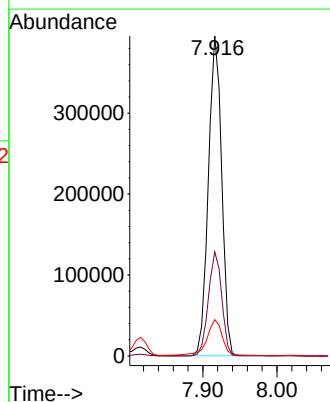
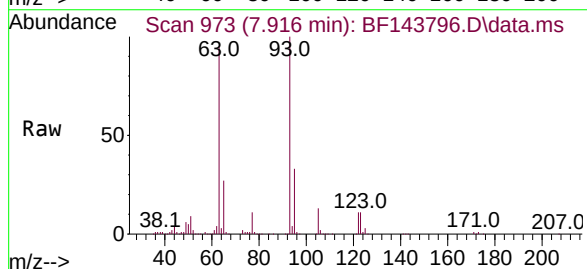
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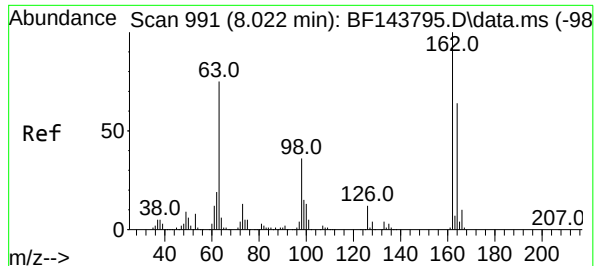
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#28  
bis(2-Chloroethoxy)methane  
Concen: 47.470 ng  
RT: 7.916 min Scan# 973  
Delta R.T. 0.000 min  
Lab File: BF143796.D  
Acq: 23 Sep 2025 14:28

Tgt Ion: 93 Resp: 492835  
Ion Ratio Lower Upper  
93 100  
95 32.5 25.8 38.8  
123 11.3 8.8 13.2





#29

2,4-Dichlorophenol

Concen: 48.801 ng

RT: 8.022 min Scan# 991

Delta R.T. 0.000 min

Lab File: BF143796.D

Acq: 23 Sep 2025 14:28

Instrument :

BNA\_F

ClientSampleId :

SSTDICC050

Tgt Ion:162 Resp: 342962

Ion Ratio Lower Upper

162 100

164 64.2 44.1 84.1

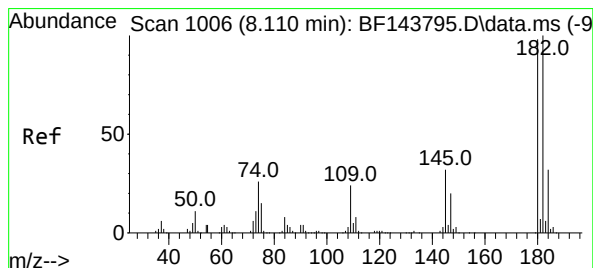
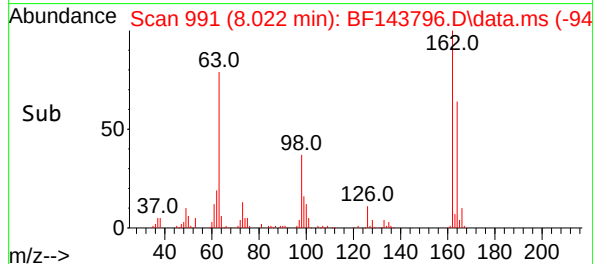
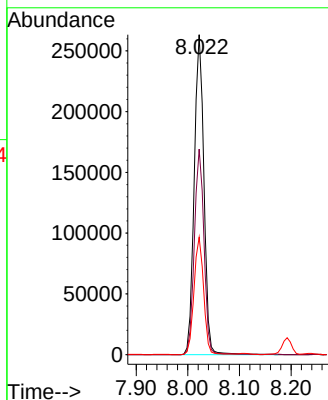
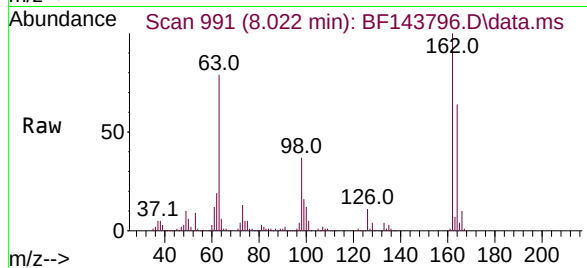
98 36.7 15.8 55.8

Manual Integrations

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Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#30

1,2,4-Trichlorobenzene

Concen: 47.353 ng

RT: 8.110 min Scan# 1006

Delta R.T. 0.000 min

Lab File: BF143796.D

Acq: 23 Sep 2025 14:28

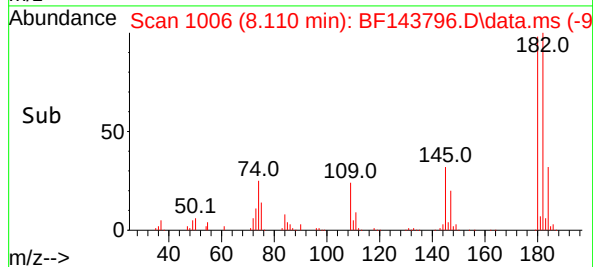
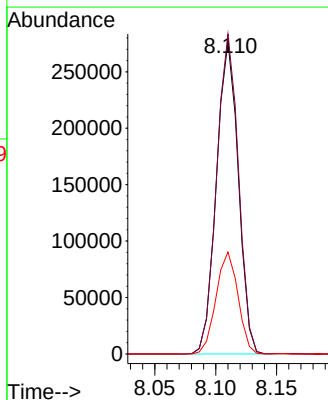
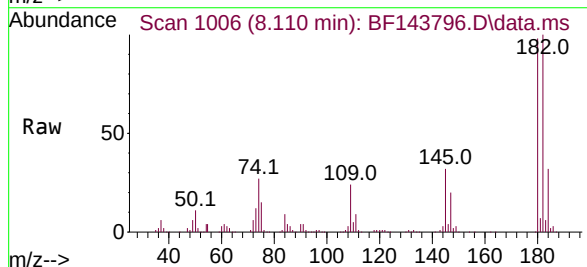
Tgt Ion:180 Resp: 345360

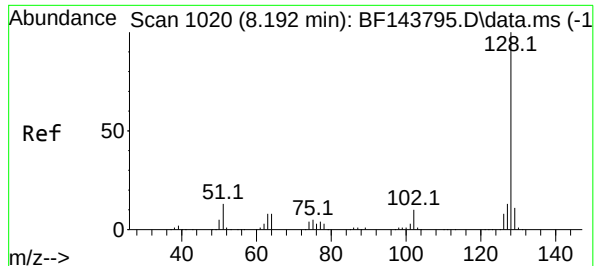
Ion Ratio Lower Upper

180 100

182 102.5 82.0 123.0

145 32.6 25.9 38.9





#31

Naphthalene

Concen: 46.304 ng

RT: 8.192 min Scan# 1020

Delta R.T. 0.000 min

Lab File: BF143796.D

Acq: 23 Sep 2025 14:28

Instrument :

BNA\_F

ClientSampleId :

SSTDICC050

Tgt Ion:128 Resp: 1112658

Ion Ratio Lower Upper

128 100

129 11.1 8.8 13.2

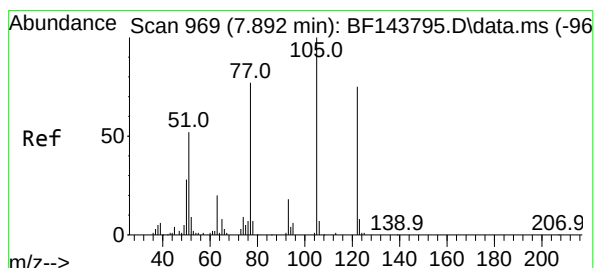
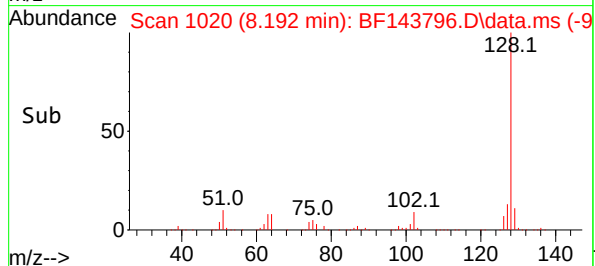
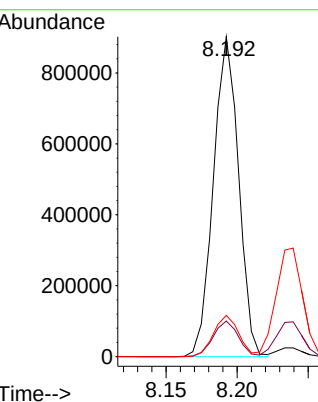
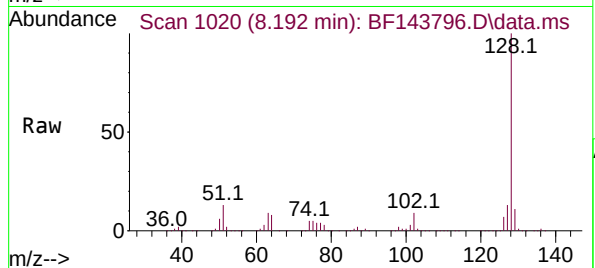
127 12.9 10.2 15.4

Manual Integrations

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Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#32

Benzoic acid

Concen: 53.967 ng

RT: 7.910 min Scan# 972

Delta R.T. -0.012 min

Lab File: BF143796.D

Acq: 23 Sep 2025 14:28

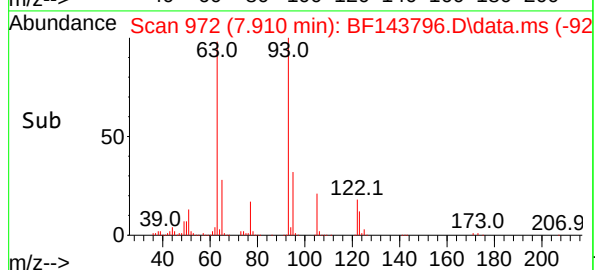
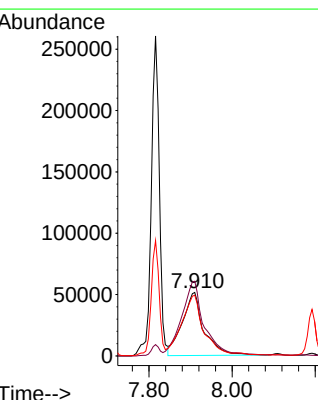
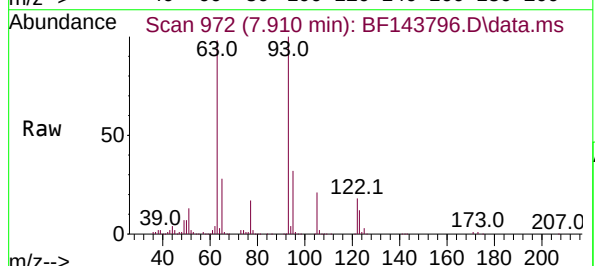
Tgt Ion:122 Resp: 185973

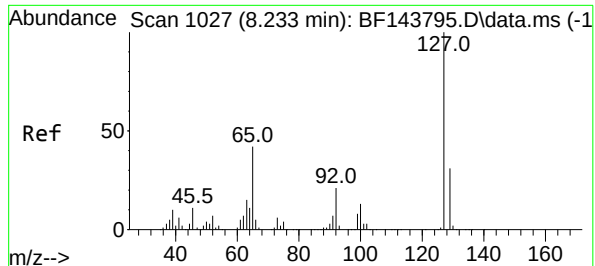
Ion Ratio Lower Upper

122 100

105 117.7 103.7 143.7

77 95.5 78.8 118.8





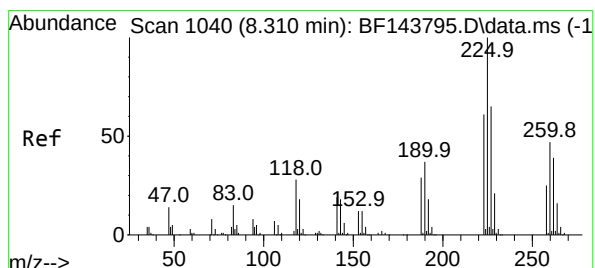
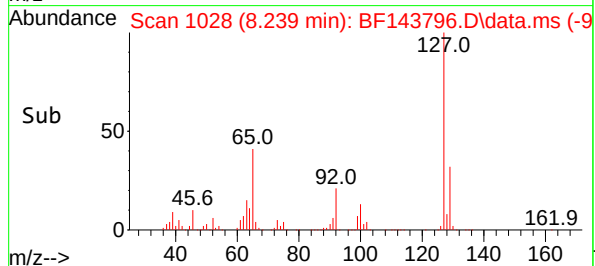
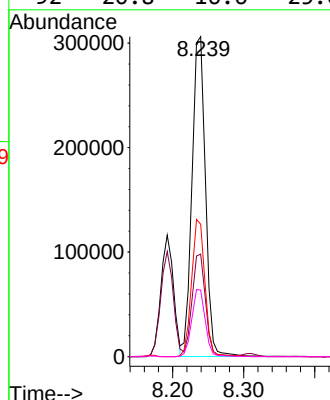
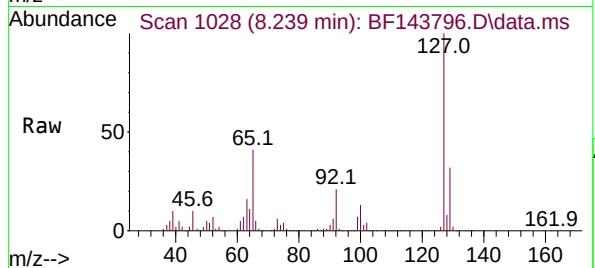
#33  
4-Chloroaniline  
Concen: 48.005 ng  
RT: 8.239 min Scan# 1027  
Delta R.T. 0.000 min  
Lab File: BF143796.D  
Acq: 23 Sep 2025 14:28

Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC050

Tgt Ion:127 Resp: 405365  
Ion Ratio Lower Upper  
127 100  
129 32.0 25.4 38.2  
65 41.4 33.4 50.2  
92 20.8 16.6 25.0

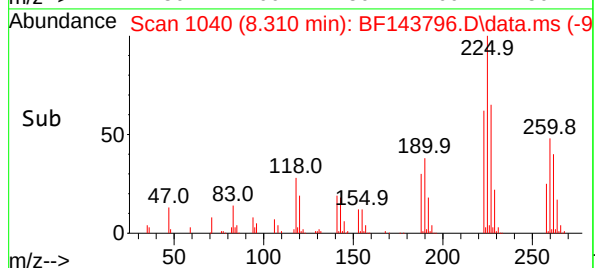
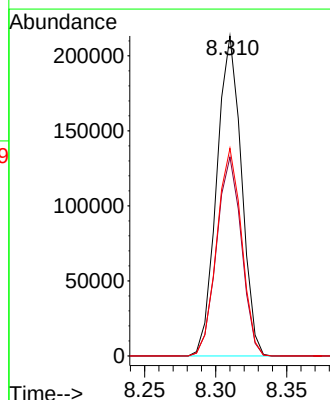
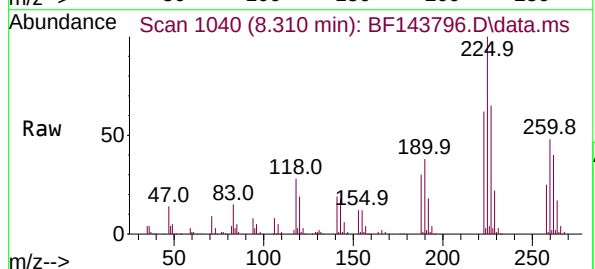
Manual Integrations  
APPROVED

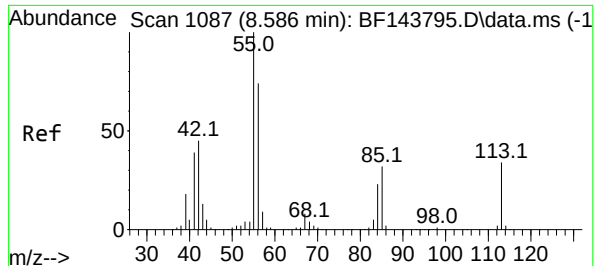
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#34  
Hexachlorobutadiene  
Concen: 47.570 ng  
RT: 8.310 min Scan# 1040  
Delta R.T. 0.000 min  
Lab File: BF143796.D  
Acq: 23 Sep 2025 14:28

Tgt Ion:225 Resp: 258638  
Ion Ratio Lower Upper  
225 100  
223 62.1 48.6 72.8  
227 64.9 51.9 77.9





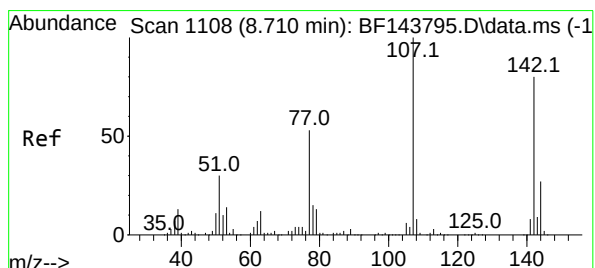
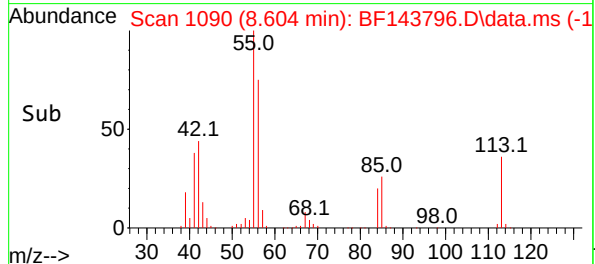
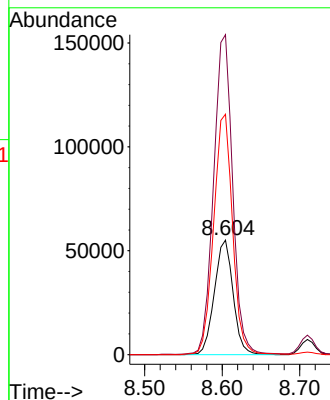
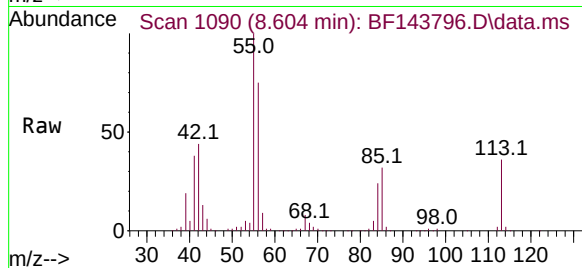
#35  
 Caprolactam  
 Concen: 51.444 ng  
 RT: 8.604 min Scan# 1087  
 Delta R.T. -0.006 min  
 Lab File: BF143796.D  
 Acq: 23 Sep 2025 14:28

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SSTDICC050

Tgt Ion:113 Resp: 92410  
 Ion Ratio Lower Upper  
 113 100  
 55 279.5 271.7 311.7  
 56 210.0 194.5 234.5

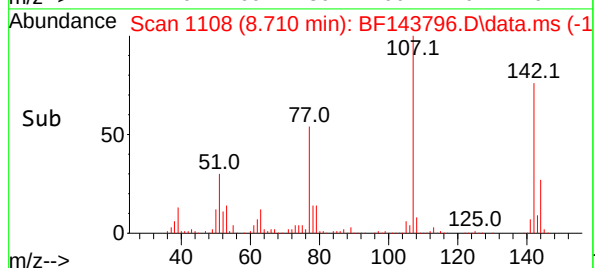
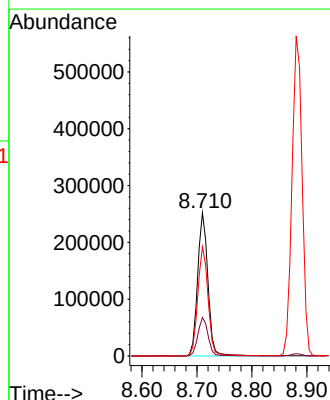
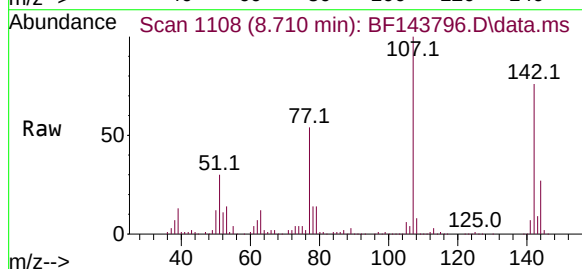
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 Supervised By :Jagrut Upadhyay 09/24/2025

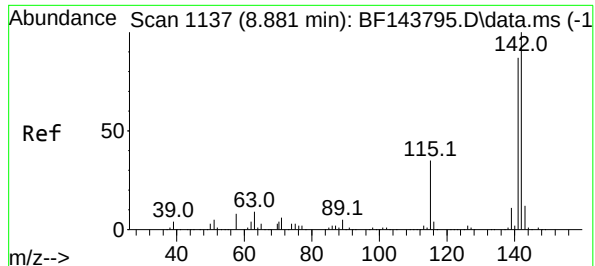


#36  
 4-Chloro-3-methylphenol  
 Concen: 49.707 ng  
 RT: 8.710 min Scan# 1108  
 Delta R.T. 0.000 min  
 Lab File: BF143796.D  
 Acq: 23 Sep 2025 14:28

Tgt Ion:107 Resp: 327629  
 Ion Ratio Lower Upper  
 107 100  
 144 26.8 21.8 32.8  
 142 76.2 63.6 95.4

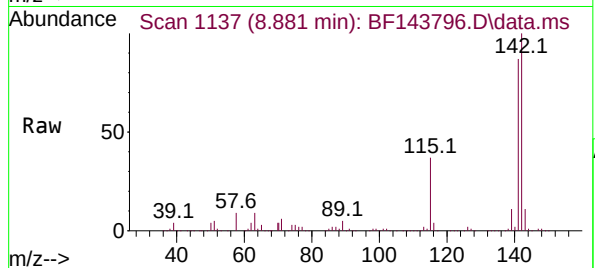






#37  
2-Methylnaphthalene  
Concen: 46.524 ng  
RT: 8.881 min Scan# 1137  
Delta R.T. 0.000 min  
Lab File: BF143796.D  
Acq: 23 Sep 2025 14:28

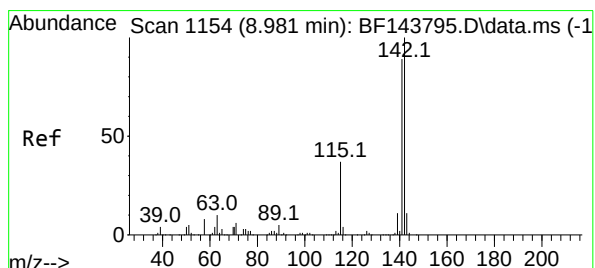
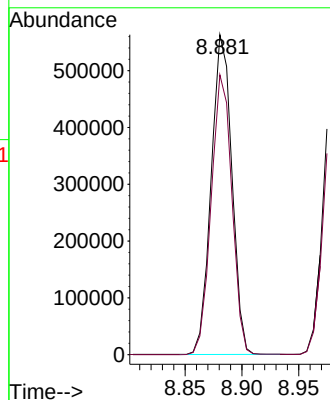
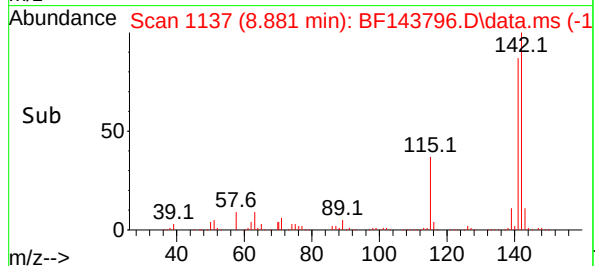
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC050



Tgt Ion:142 Resp: 712848  
Ion Ratio Lower Upper  
142 100  
141 87.4 69.4 104.0

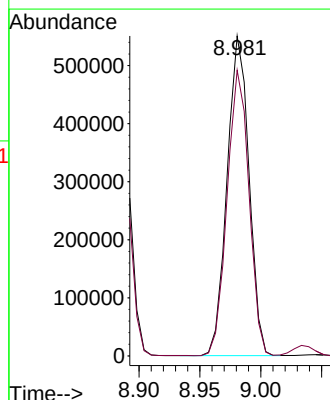
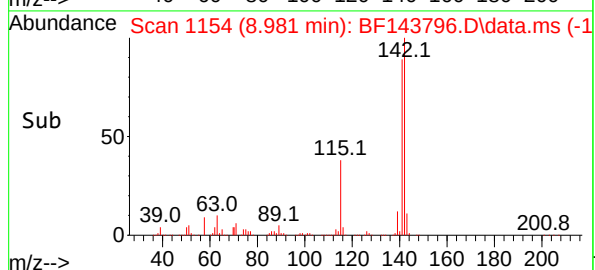
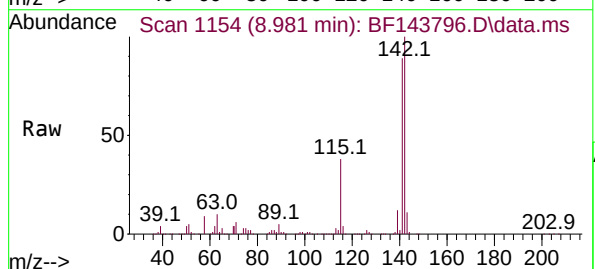
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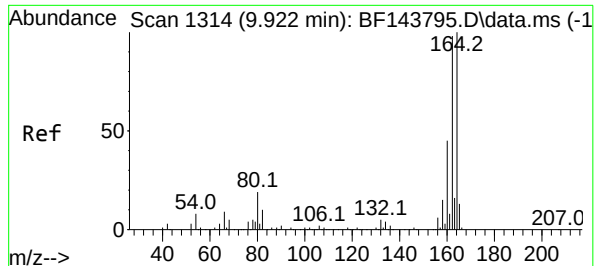
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#38  
1-Methylnaphthalene  
Concen: 47.022 ng  
RT: 8.981 min Scan# 1154  
Delta R.T. 0.000 min  
Lab File: BF143796.D  
Acq: 23 Sep 2025 14:28

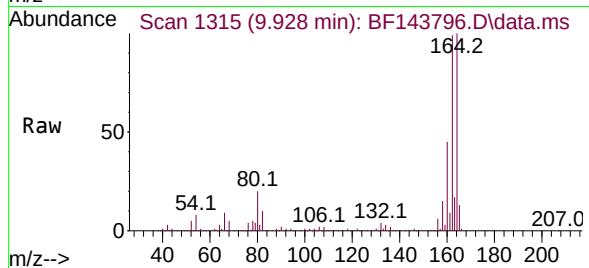
Tgt Ion:142 Resp: 689609  
Ion Ratio Lower Upper  
142 100  
141 89.3 71.1 106.7





#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.928 min Scan# 1314  
Delta R.T. -0.000 min  
Lab File: BF143796.D  
Acq: 23 Sep 2025 14:28

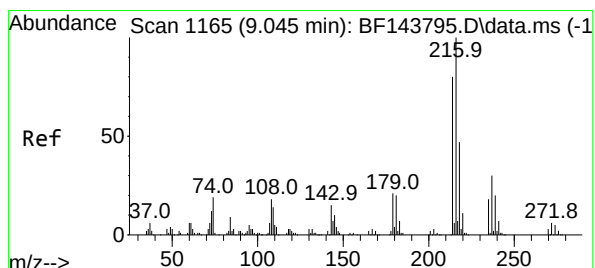
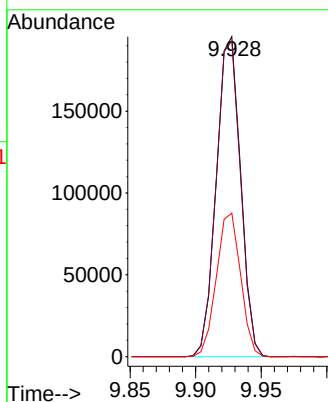
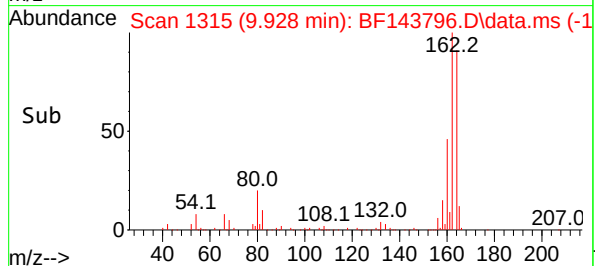
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC050



Tgt Ion:164 Resp: 251921  
Ion Ratio Lower Upper  
164 100  
162 98.6 78.8 118.2  
160 44.8 35.8 53.6

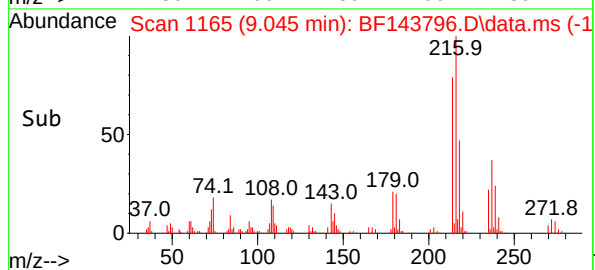
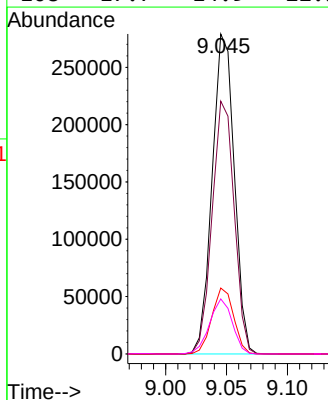
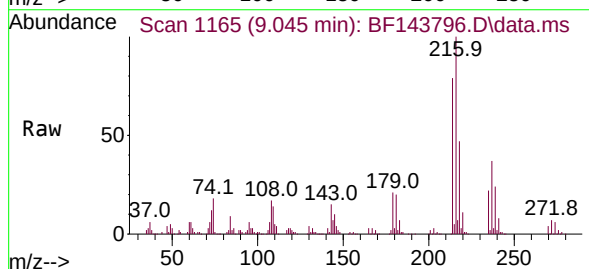
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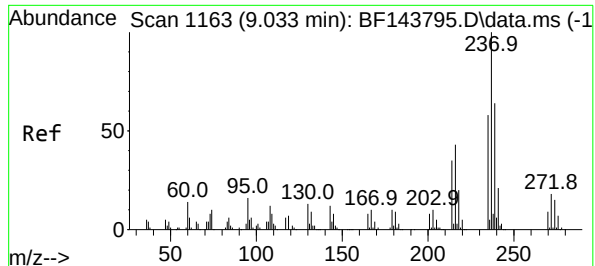
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#40  
1,2,4,5-Tetrachlorobenzene  
Concen: 46.300 ng  
RT: 9.045 min Scan# 1165  
Delta R.T. -0.006 min  
Lab File: BF143796.D  
Acq: 23 Sep 2025 14:28

Tgt Ion:216 Resp: 351998  
Ion Ratio Lower Upper  
216 100  
214 78.9 63.7 95.5  
179 20.3 16.5 24.7  
108 17.7 14.9 22.3





#41

Hexachlorocyclopentadiene

Concen: 49.894 ng

RT: 9.034 min Scan# 1163

Delta R.T. -0.006 min

Lab File: BF143796.D

Acq: 23 Sep 2025 14:28

Instrument :

BNA\_F

ClientSampleId :

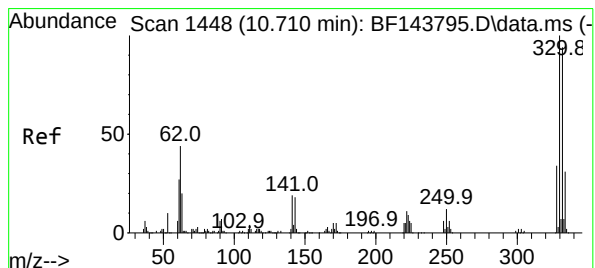
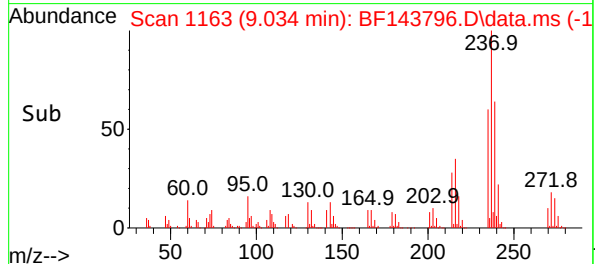
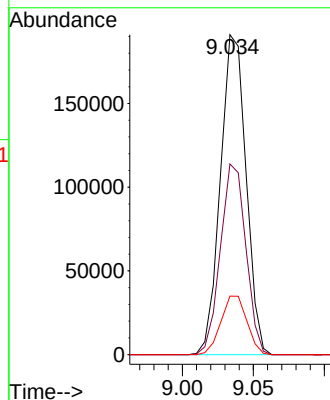
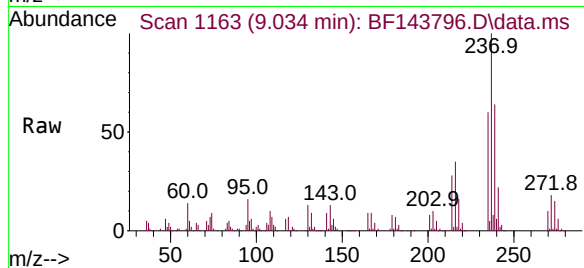
SSTDICC050

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 237   | Resp: | 240402 |
| Ion Ratio | Lower | Upper |        |
| 237       | 100   |       |        |
| 235       | 59.6  | 38.1  | 78.1   |
| 272       | 18.3  | 0.0   | 37.9   |

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Supervised By :Jagrut Upadhyay 09/24/2025



#42

2,4,6-Tribromophenol

Concen: 98.591 ng

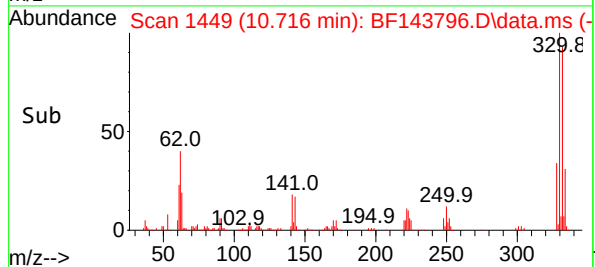
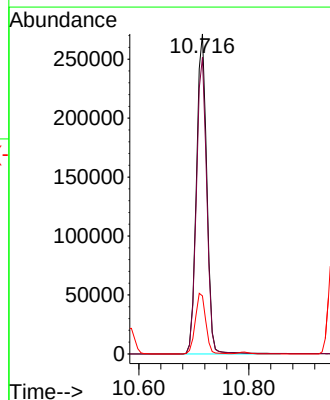
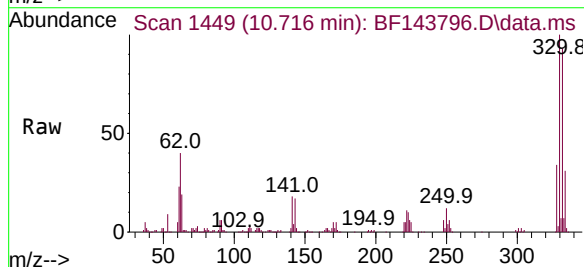
RT: 10.716 min Scan# 1449

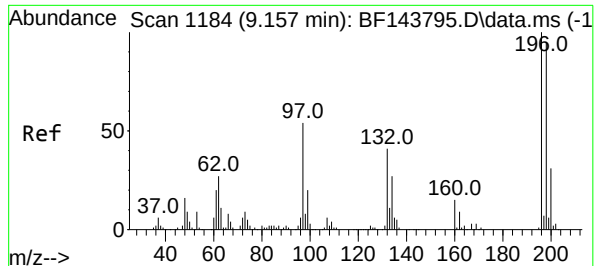
Delta R.T. 0.000 min

Lab File: BF143796.D

Acq: 23 Sep 2025 14:28

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 330   | Resp: | 354459 |
| Ion Ratio | Lower | Upper |        |
| 330       | 100   |       |        |
| 332       | 92.9  | 74.7  | 112.1  |
| 141       | 19.2  | 14.3  | 21.5   |





#43

2,4,6-Trichlorophenol

Concen: 50.100 ng

RT: 9.157 min Scan# 1184

Delta R.T. 0.000 min

Lab File: BF143796.D

Acq: 23 Sep 2025 14:28

Instrument :

BNA\_F

ClientSampleId :

SSTDICC050

Tgt Ion:196 Resp: 238499

Ion Ratio Lower Upper

196 100

198 95.5 76.2 114.2

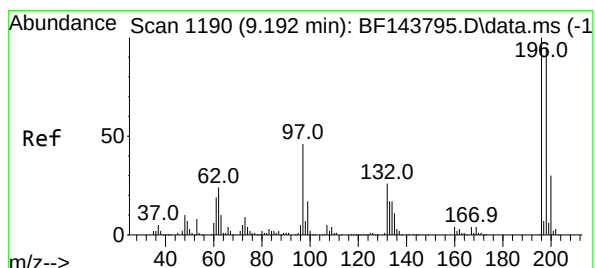
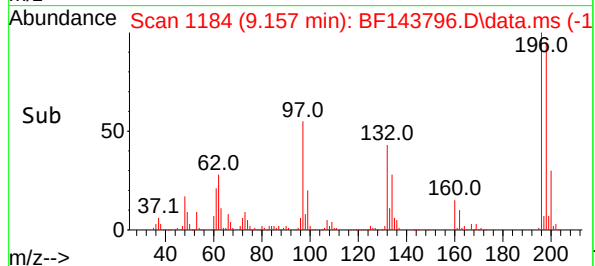
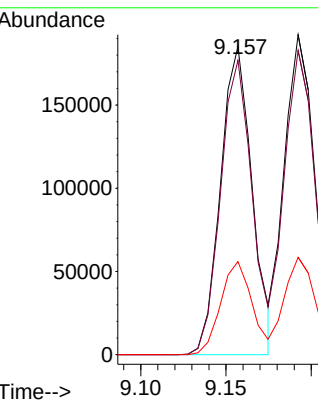
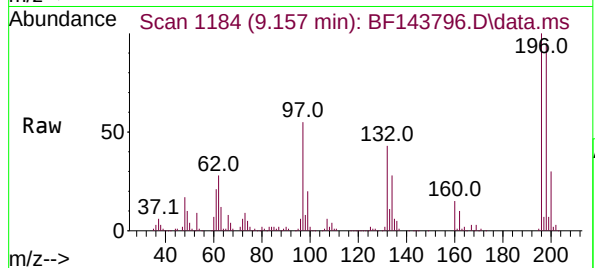
200 30.2 24.7 37.1

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Supervised By :Jagrut Upadhyay 09/24/2025



#44

2,4,5-Trichlorophenol

Concen: 48.050 ng

RT: 9.192 min Scan# 1190

Delta R.T. 0.000 min

Lab File: BF143796.D

Acq: 23 Sep 2025 14:28

Tgt Ion:196 Resp: 239256

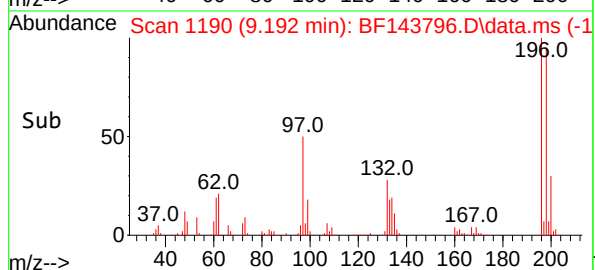
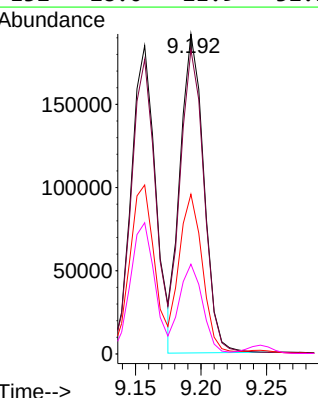
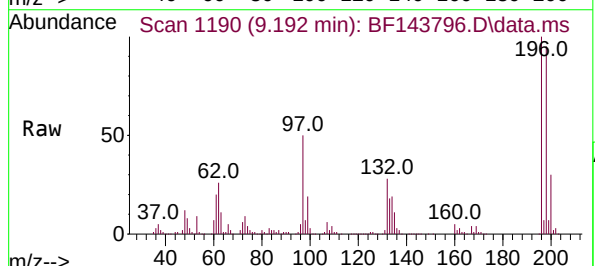
Ion Ratio Lower Upper

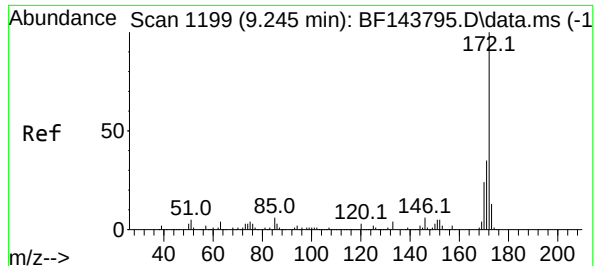
196 100

198 95.1 75.9 113.9

97 49.9 38.3 57.5

132 28.0 21.9 32.9





#45

2-Fluorobiphenyl

Concen: 85.274 ng

RT: 9.245 min Scan# 1199

Delta R.T. 0.000 min

Lab File: BF143796.D

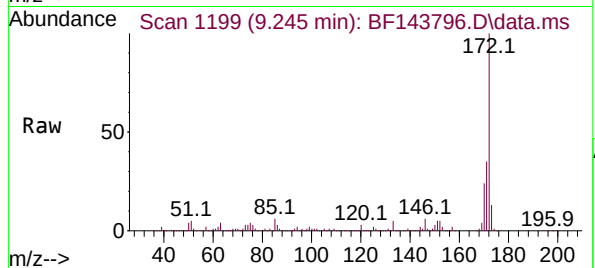
Acq: 23 Sep 2025 14:28

Instrument :

BNA\_F

ClientSampleId :

SSTDICC050



Tgt Ion:172 Resp: 1453709

Ion Ratio Lower Upper

172 100

171 35.2 27.9 41.9

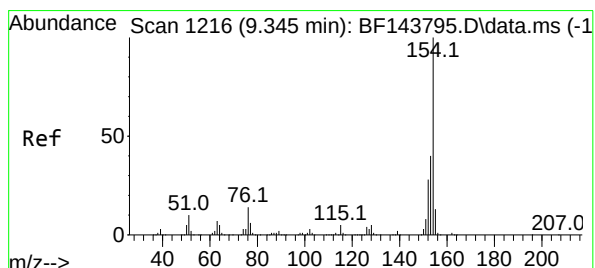
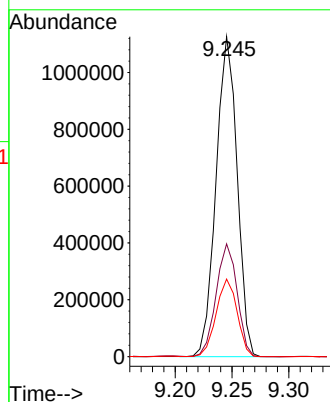
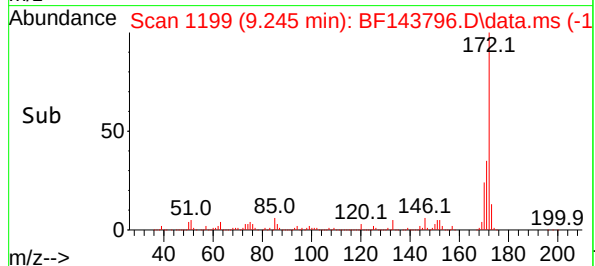
170 24.2 19.1 28.7

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#46

1,1'-Biphenyl

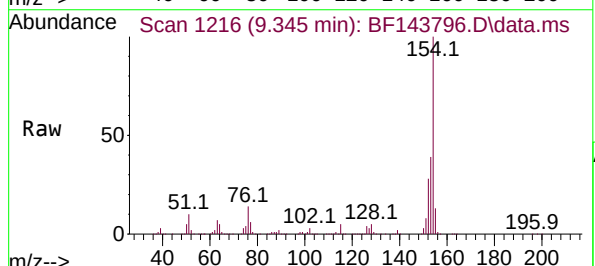
Concen: 45.967 ng

RT: 9.345 min Scan# 1216

Delta R.T. 0.000 min

Lab File: BF143796.D

Acq: 23 Sep 2025 14:28



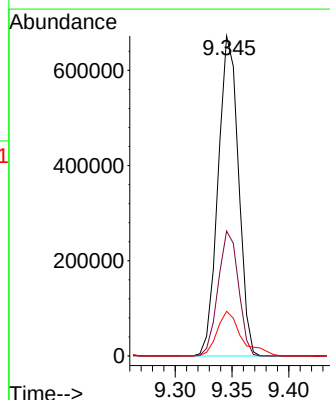
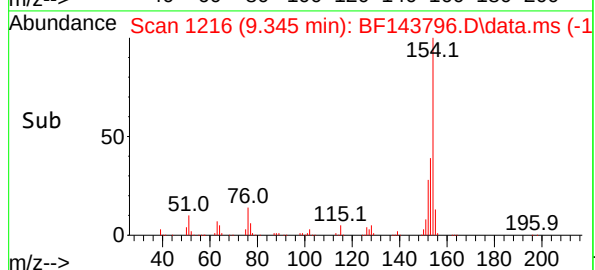
Tgt Ion:154 Resp: 838250

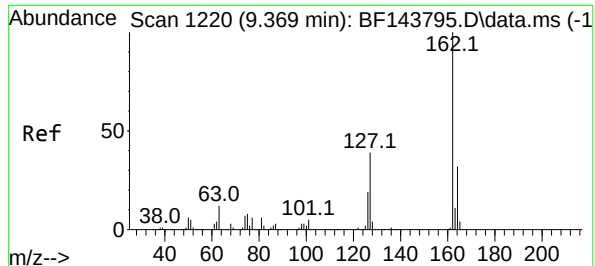
Ion Ratio Lower Upper

154 100

153 39.0 19.7 59.7

76 13.9 0.0 33.8





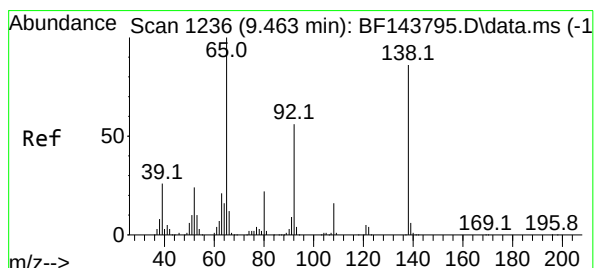
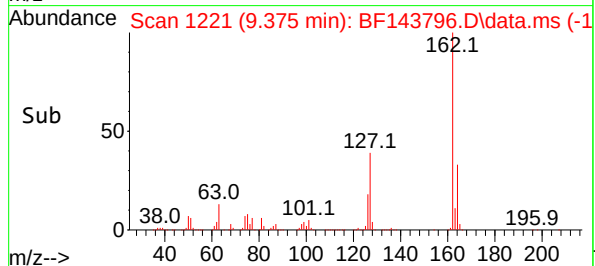
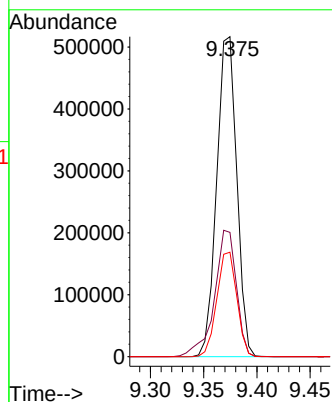
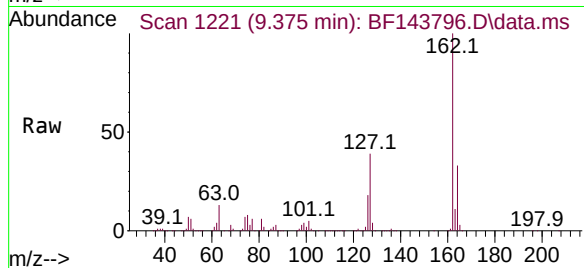
#47  
2-Chloronaphthalene  
Concen: 46.229 ng  
RT: 9.375 min Scan# 1221  
Delta R.T. 0.000 min  
Lab File: BF143796.D  
Acq: 23 Sep 2025 14:28

Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC050

Tgt Ion:162 Resp: 678591  
Ion Ratio Lower Upper  
162 100  
127 38.8 31.5 47.3  
164 32.6 25.9 38.9

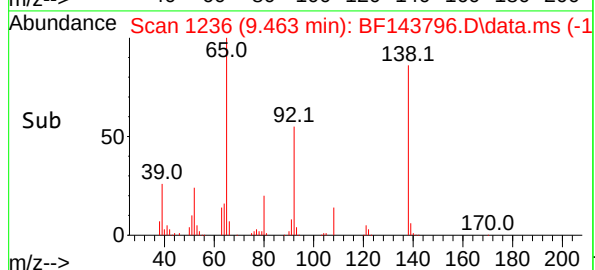
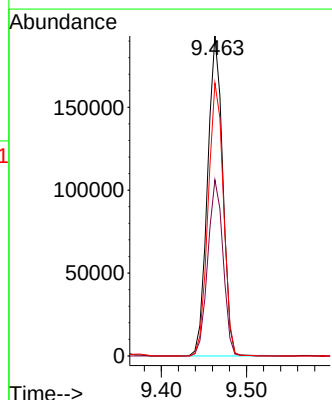
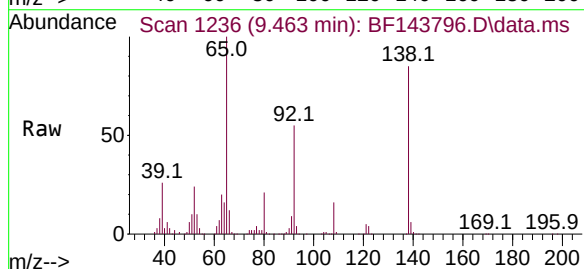
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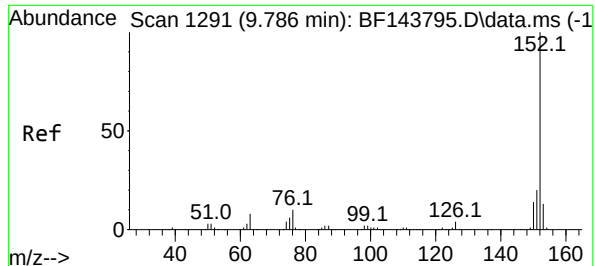
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#48  
2-Nitroaniline  
Concen: 53.895 ng  
RT: 9.463 min Scan# 1236  
Delta R.T. 0.000 min  
Lab File: BF143796.D  
Acq: 23 Sep 2025 14:28

Tgt Ion: 65 Resp: 239106  
Ion Ratio Lower Upper  
65 100  
92 55.0 44.9 67.3  
138 85.3 69.0 103.4





#49

Acenaphthylene

Concen: 46.711 ng

RT: 9.786 min Scan# 1291

Delta R.T. 0.000 min

Lab File: BF143796.D

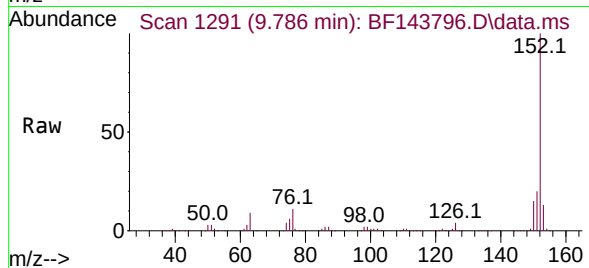
Acq: 23 Sep 2025 14:28

Instrument :

BNA\_F

ClientSampleId :

SSTDICC050



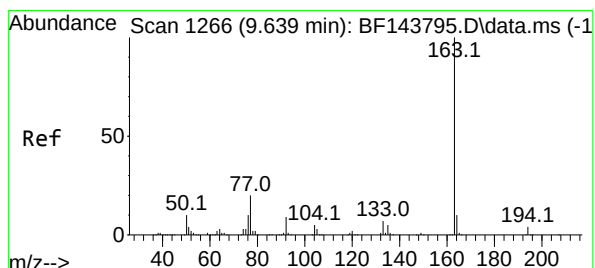
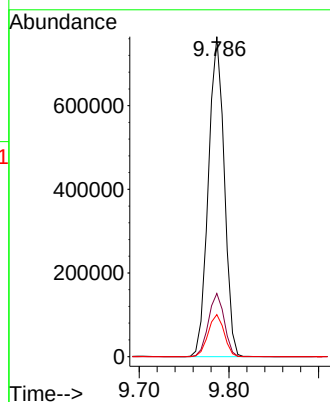
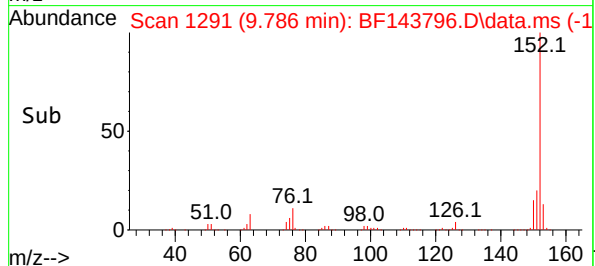
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 152   | Resp: | 943926 |
| Ion Ratio | Lower | Upper |        |
| 152       | 100   |       |        |
| 151       | 19.7  | 15.7  | 23.5   |
| 153       | 13.1  | 10.6  | 15.8   |

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Supervised By :Jagrut Upadhyay 09/24/2025



#50

Dimethylphthalate

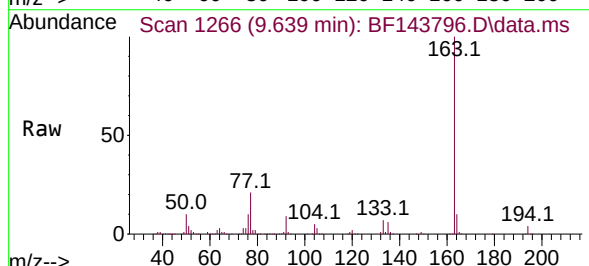
Concen: 48.124 ng

RT: 9.639 min Scan# 1266

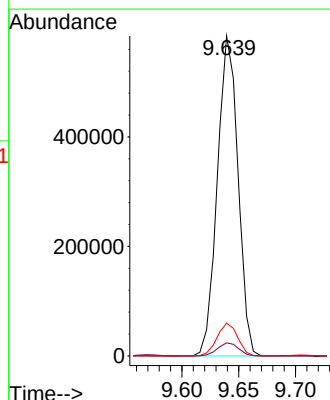
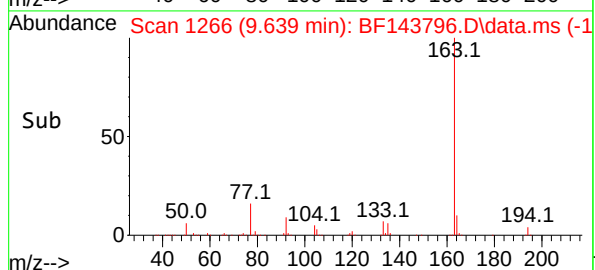
Delta R.T. 0.000 min

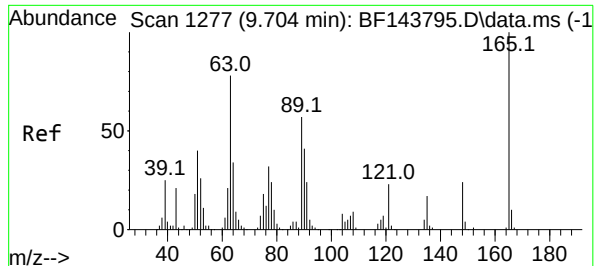
Lab File: BF143796.D

Acq: 23 Sep 2025 14:28



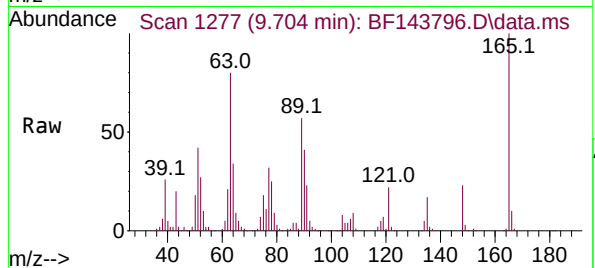
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 163   | Resp: | 738918 |
| Ion Ratio | Lower | Upper |        |
| 163       | 100   |       |        |
| 194       | 4.1   | 3.0   | 4.6    |
| 164       | 10.2  | 8.2   | 12.2   |





#51  
2,6-Dinitrotoluene  
Concen: 56.010 ng  
RT: 9.704 min Scan# 1277  
Delta R.T. 0.000 min  
Lab File: BF143796.D  
Acq: 23 Sep 2025 14:28

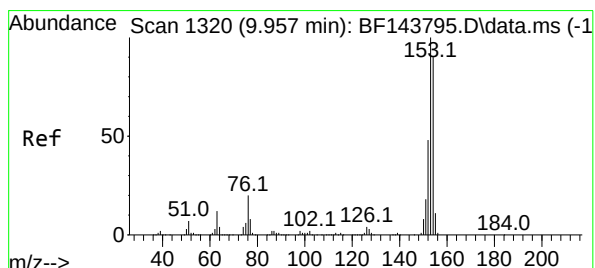
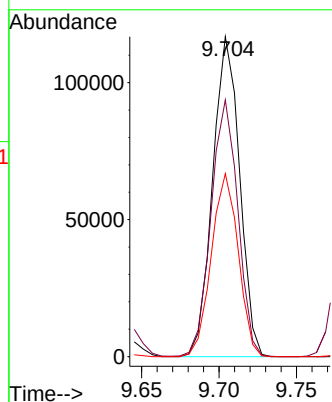
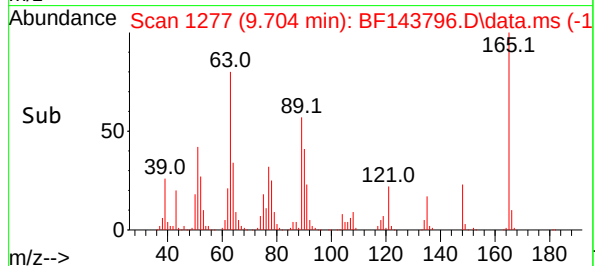
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC050



Tgt Ion:165 Resp: 141300  
Ion Ratio Lower Upper  
165 100  
63 80.2 62.6 94.0  
89 57.2 45.2 67.8

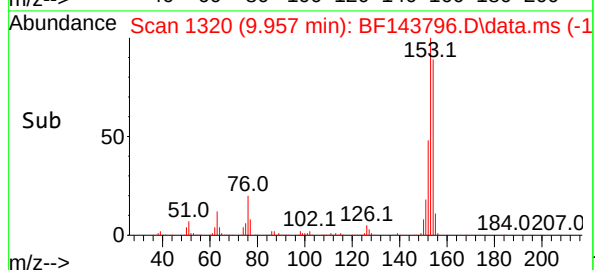
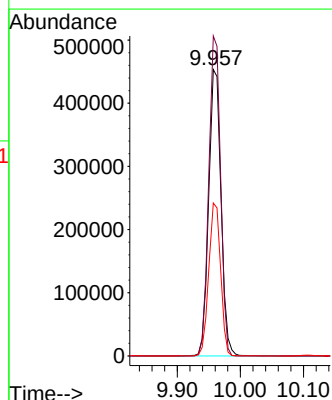
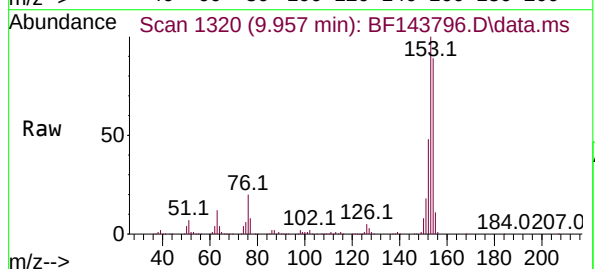
Manual Integrations  
APPROVED

Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025

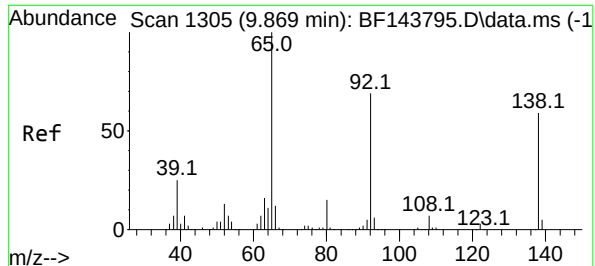


#52  
Acenaphthene  
Concen: 46.113 ng  
RT: 9.957 min Scan# 1320  
Delta R.T. -0.006 min  
Lab File: BF143796.D  
Acq: 23 Sep 2025 14:28

Tgt Ion:154 Resp: 613218  
Ion Ratio Lower Upper  
154 100  
153 111.8 88.7 133.1  
152 53.4 42.7 64.1







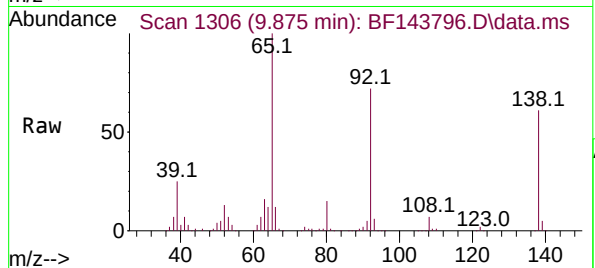
#53  
3-Nitroaniline  
Concen: 53.384 ng  
RT: 9.875 min Scan# 1306  
Delta R.T. 0.000 min  
Lab File: BF143796.D  
Acq: 23 Sep 2025 14:28

Instrument :

BNA\_F

ClientSampleId :

SSTDICC050

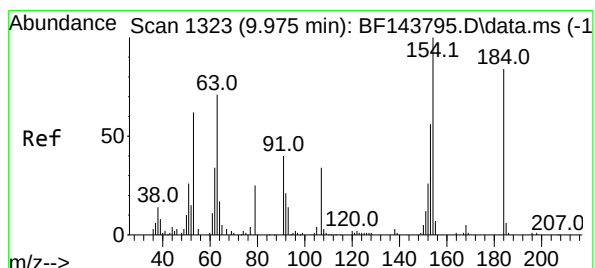
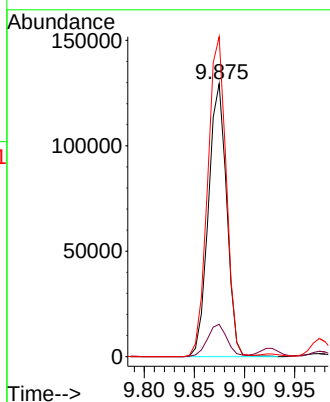
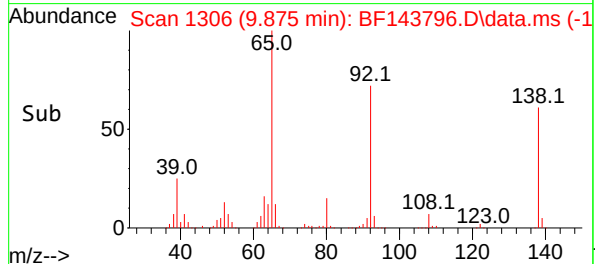


Tgt Ion:138 Resp: 163244  
Ion Ratio Lower Upper  
138 100  
108 11.8 9.9 14.9  
92 117.3 93.5 140.3

Manual Integrations

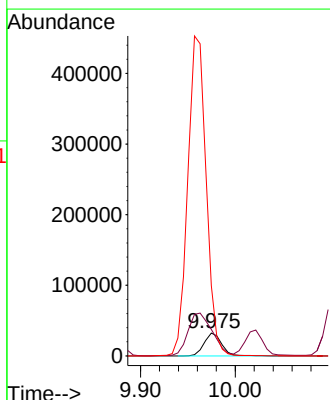
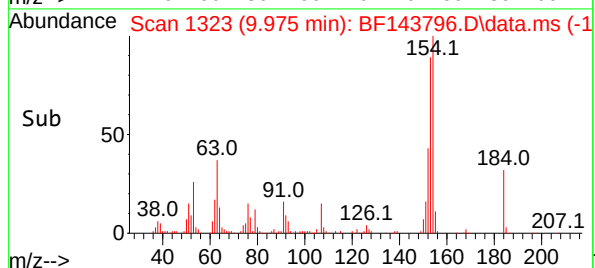
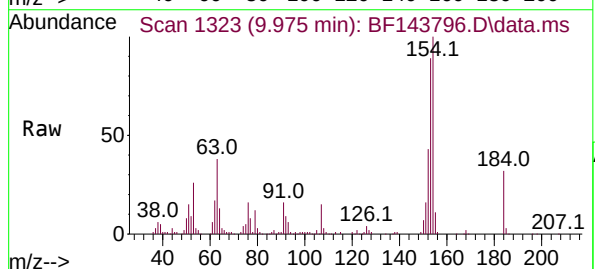
APPROVED

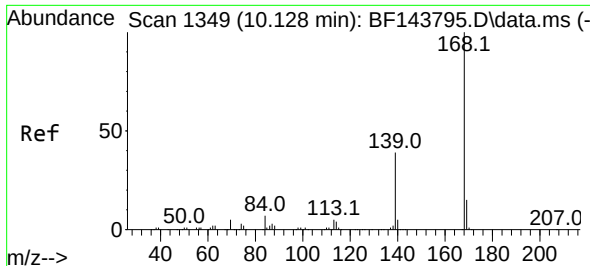
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#54  
2,4-Dinitrophenol  
Concen: 49.728 ng  
RT: 9.975 min Scan# 1323  
Delta R.T. -0.000 min  
Lab File: BF143796.D  
Acq: 23 Sep 2025 14:28

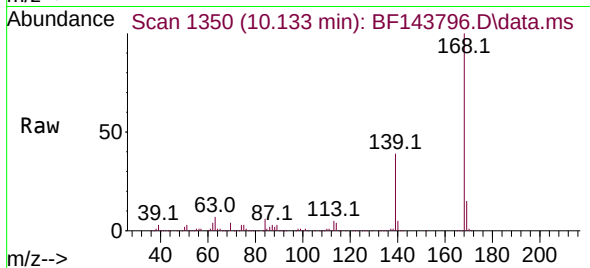
Tgt Ion:184 Resp: 41616  
Ion Ratio Lower Upper  
184 100  
63 115.9 84.6 127.0  
154 307.9 199.3 298.9#





#55  
Dibenzenofuran  
Concen: 46.115 ng  
RT: 10.133 min Scan# 1349  
Delta R.T. 0.000 min  
Lab File: BF143796.D  
Acq: 23 Sep 2025 14:28

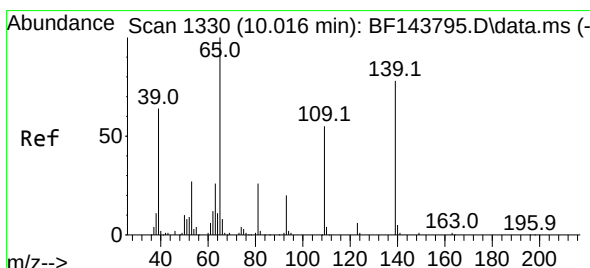
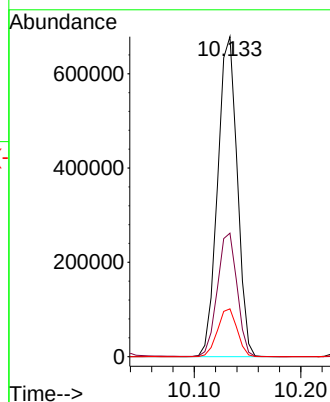
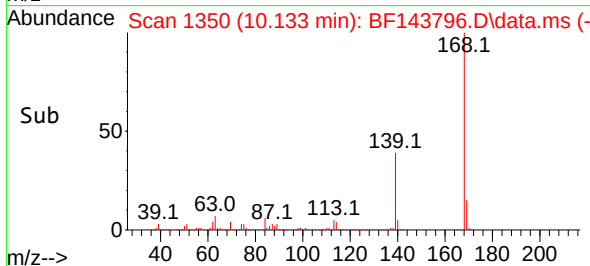
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC050



Tgt Ion:168 Resp: 867169  
Ion Ratio Lower Upper  
168 100  
139 38.6 31.0 46.6  
169 14.9 11.9 17.9

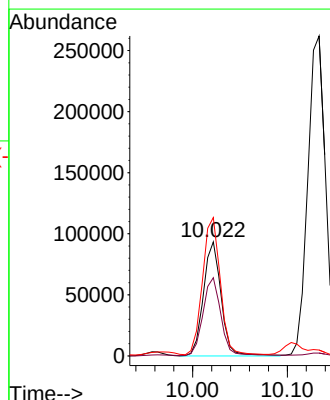
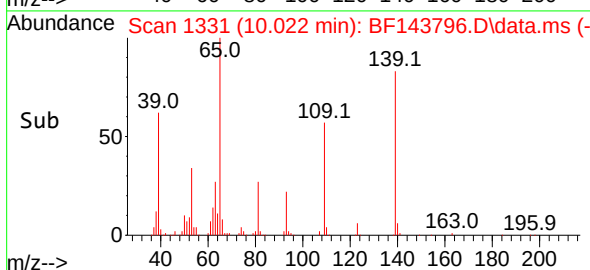
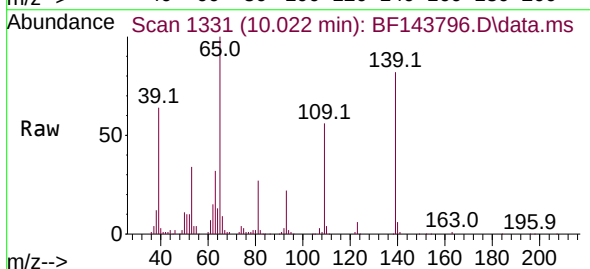
Manual Integrations  
APPROVED

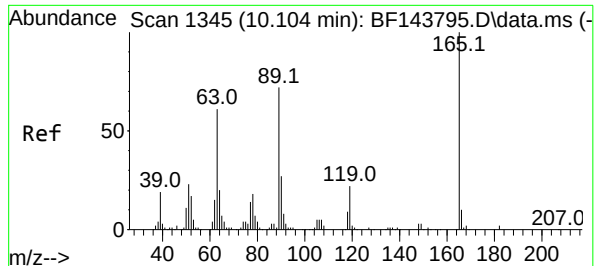
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#56  
4-Nitrophenol  
Concen: 49.212 ng  
RT: 10.022 min Scan# 1331  
Delta R.T. 0.000 min  
Lab File: BF143796.D  
Acq: 23 Sep 2025 14:28

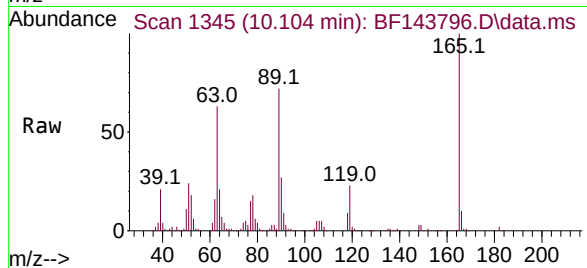
Tgt Ion:139 Resp: 121266  
Ion Ratio Lower Upper  
139 100  
109 68.6 50.2 90.2  
65 121.4 109.2 149.2





#57  
2,4-Dinitrotoluene  
Concen: 49.496 ng  
RT: 10.104 min Scan# 1345  
Delta R.T. -0.006 min  
Lab File: BF143796.D  
Acq: 23 Sep 2025 14:28

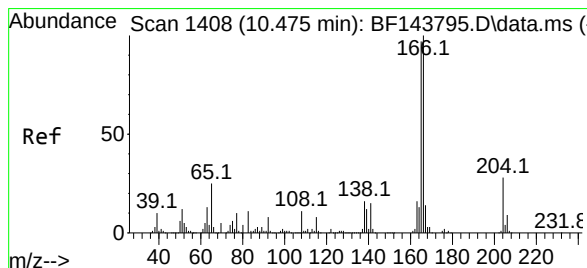
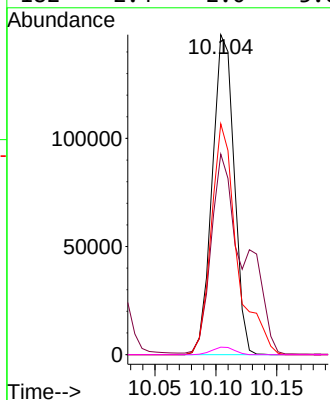
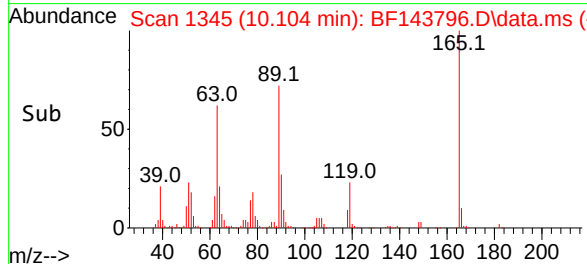
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC050



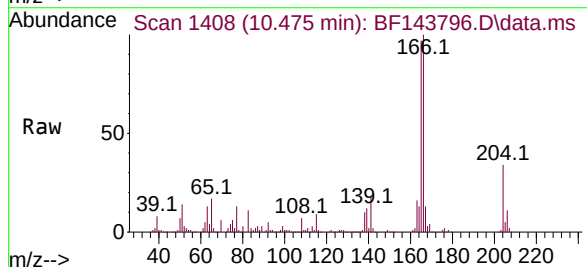
Tgt Ion:165 Resp: 185701  
Ion Ratio Lower Upper  
165 100  
63 62.7 48.9 73.3  
89 72.1 57.5 86.3  
182 2.4 2.0 3.0

Manual Integrations  
APPROVED

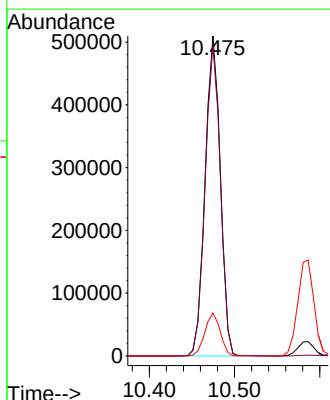
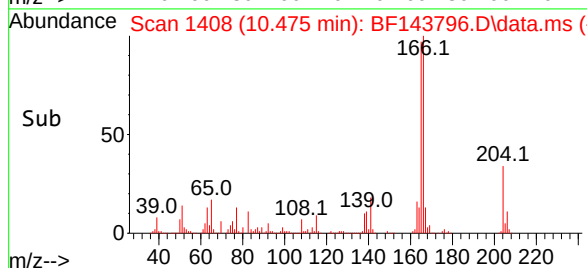
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025

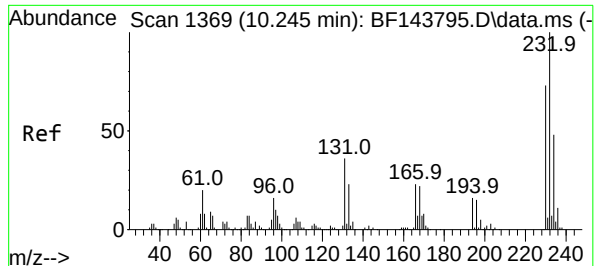


#58  
Fluorene  
Concen: 45.259 ng  
RT: 10.475 min Scan# 1408  
Delta R.T. 0.000 min  
Lab File: BF143796.D  
Acq: 23 Sep 2025 14:28



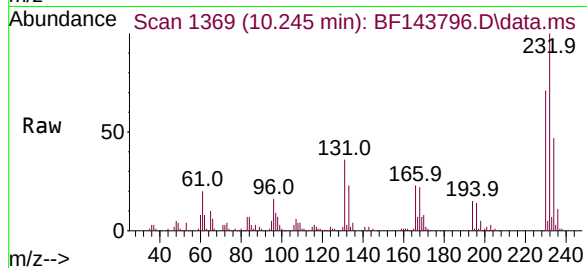
Tgt Ion:166 Resp: 632710  
Ion Ratio Lower Upper  
166 100  
165 96.9 78.0 117.0  
167 13.4 10.9 16.3





#59  
2,3,4,6-Tetrachlorophenol  
Concen: 52.440 ng  
RT: 10.245 min Scan# 1369  
Delta R.T. 0.000 min  
Lab File: BF143796.D  
Acq: 23 Sep 2025 14:28

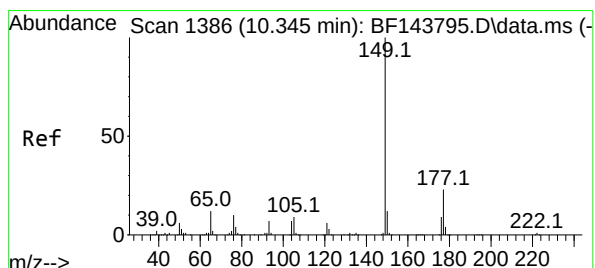
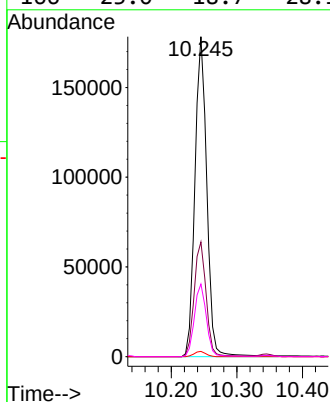
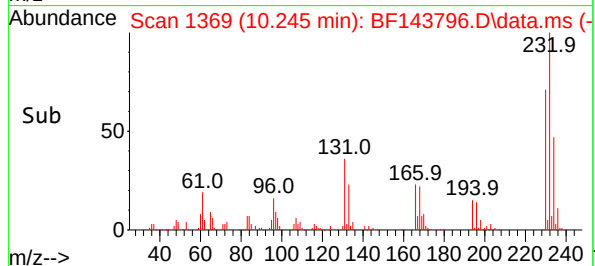
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC050



Tgt Ion:232 Resp: 223693  
Ion Ratio Lower Upper  
232 100  
131 36.2 29.4 44.2  
130 1.6 1.3 1.9  
166 23.0 18.7 28.1

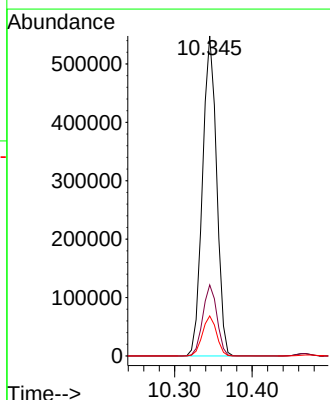
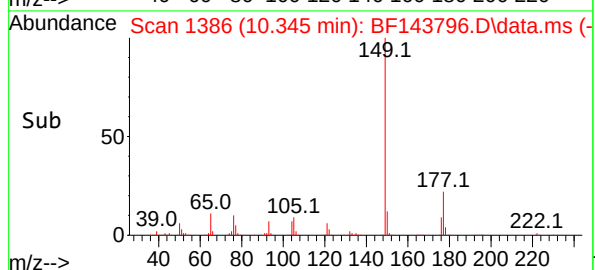
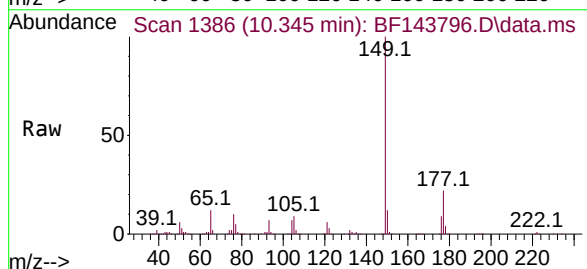
Manual Integrations  
APPROVED

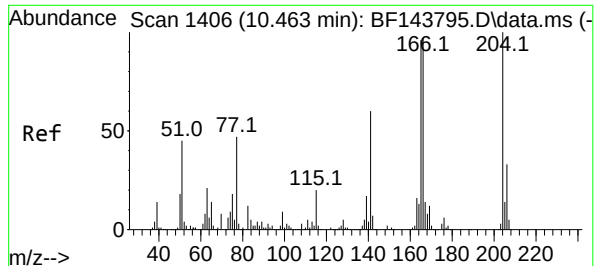
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#60  
Diethylphthalate  
Concen: 48.178 ng  
RT: 10.345 min Scan# 1386  
Delta R.T. 0.000 min  
Lab File: BF143796.D  
Acq: 23 Sep 2025 14:28

Tgt Ion:149 Resp: 692482  
Ion Ratio Lower Upper  
149 100  
177 22.2 18.1 27.1  
150 12.5 9.7 14.5





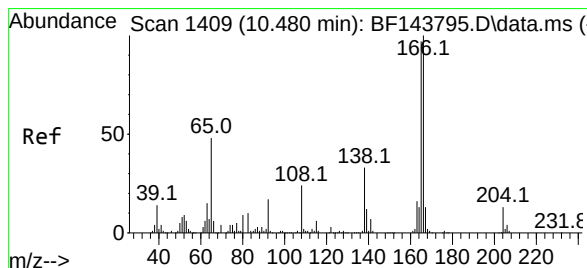
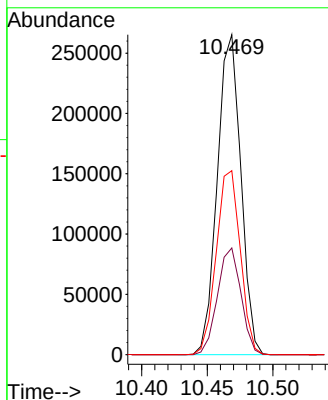
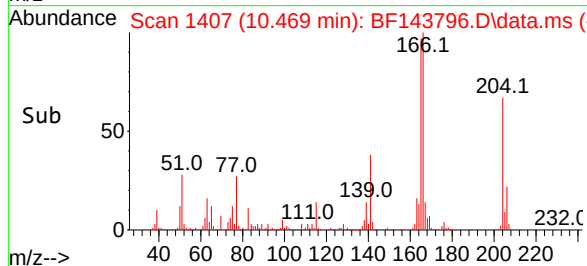
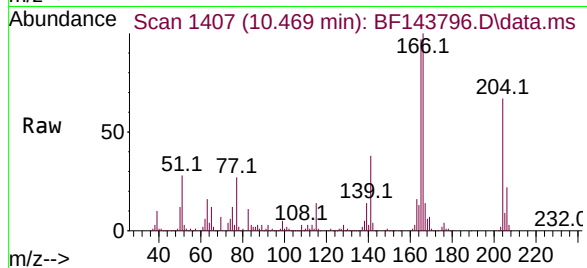
#61  
4-Chlorophenyl-phenylether  
Concen: 46.640 ng  
RT: 10.469 min Scan# 1406  
Delta R.T. 0.000 min  
Lab File: BF143796.D  
Acq: 23 Sep 2025 14:28

Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC050

Tgt Ion:204 Resp: 332223  
Ion Ratio Lower Upper  
204 100  
206 33.3 26.7 40.1  
141 57.5 48.2 72.2

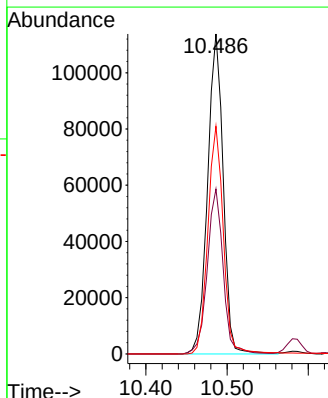
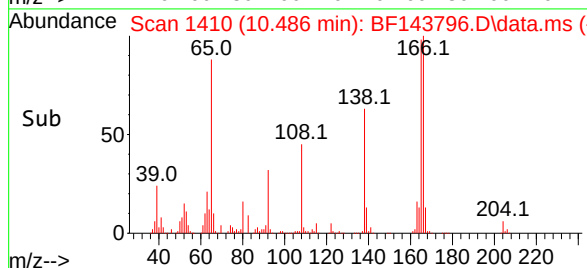
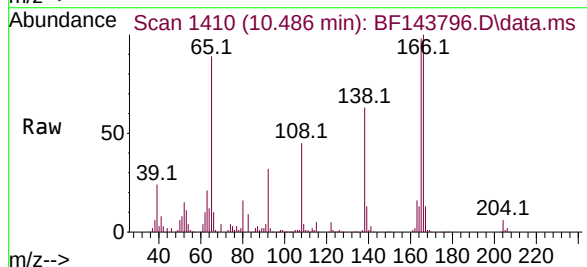
Manual Integrations  
APPROVED

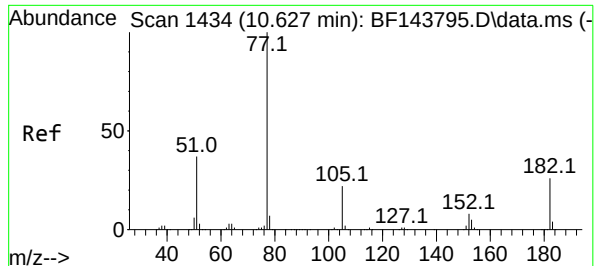
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#62  
4-Nitroaniline  
Concen: 52.923 ng  
RT: 10.486 min Scan# 1410  
Delta R.T. -0.006 min  
Lab File: BF143796.D  
Acq: 23 Sep 2025 14:28

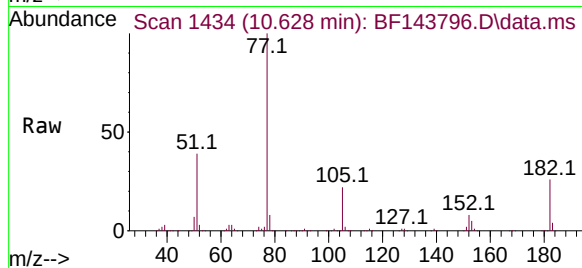
Tgt Ion:138 Resp: 152165  
Ion Ratio Lower Upper  
138 100  
92 51.5 31.5 71.5  
108 71.1 51.9 91.9





#63  
Azobenzene  
Concen: 47.725 ng  
RT: 10.628 min Scan# 1434  
Delta R.T. 0.000 min  
Lab File: BF143796.D  
Acq: 23 Sep 2025 14:28

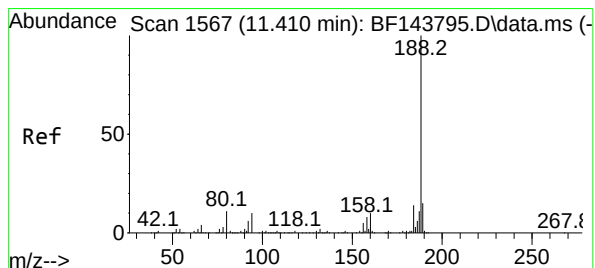
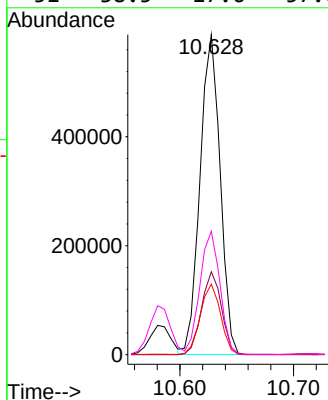
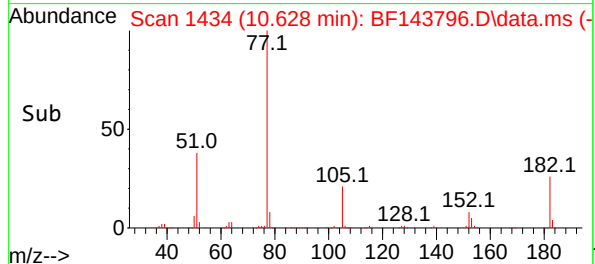
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC050



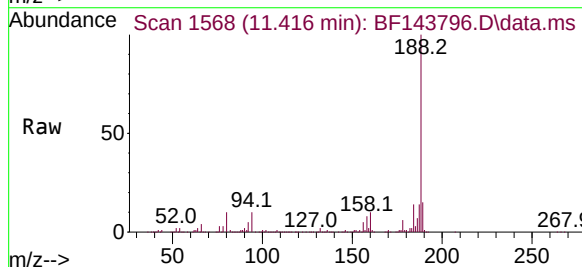
Tgt Ion: 77 Resp: 722936  
Ion Ratio Lower Upper  
77 100  
182 25.9 5.9 45.9  
105 22.1 2.3 42.3  
51 38.5 17.6 57.6

Manual Integrations  
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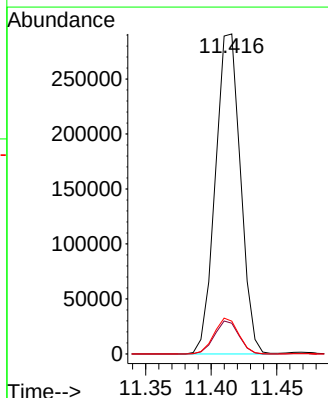
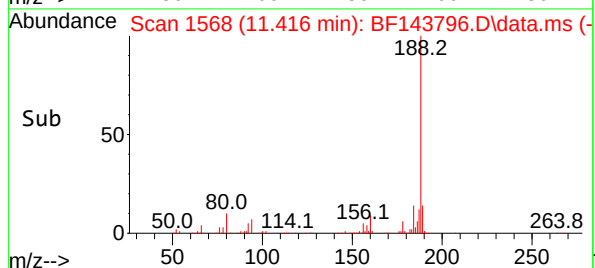
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025

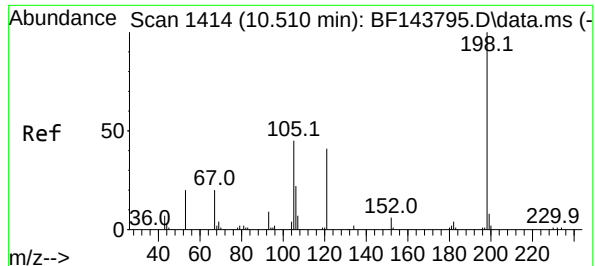


#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.416 min Scan# 1568  
Delta R.T. -0.000 min  
Lab File: BF143796.D  
Acq: 23 Sep 2025 14:28



Tgt Ion:188 Resp: 388493  
Ion Ratio Lower Upper  
188 100  
94 9.6 8.2 12.2  
80 10.2 8.6 12.8





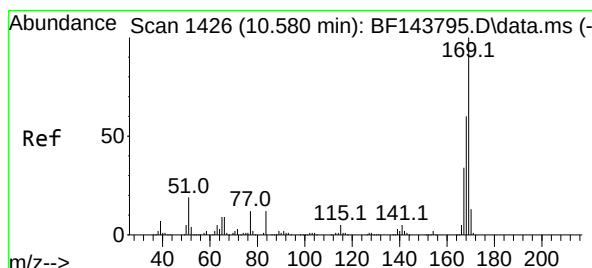
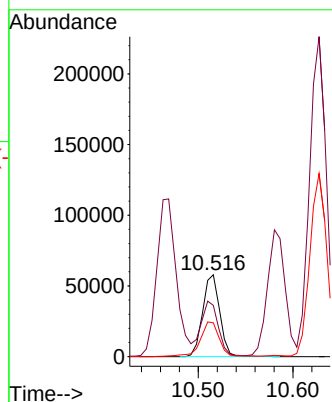
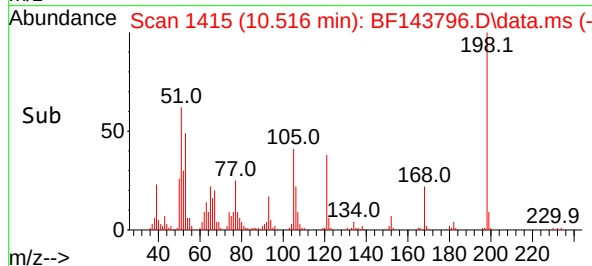
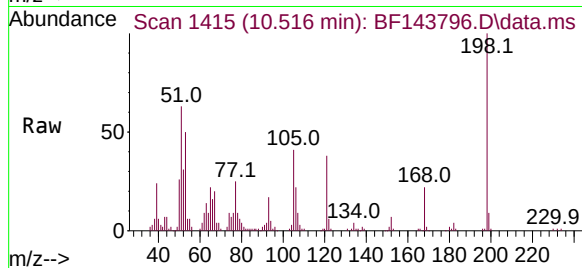
#65  
4,6-Dinitro-2-methylphenol  
Concen: 50.124 ng  
RT: 10.516 min Scan# 1415  
Delta R.T. -0.000 min  
Lab File: BF143796.D  
Acq: 23 Sep 2025 14:28

Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC050

Tgt Ion:198 Resp: 72195  
Ion Ratio Lower Upper  
198 100  
51 62.7 52.0 92.0  
105 41.4 27.5 67.5

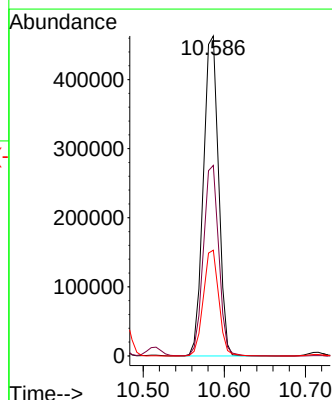
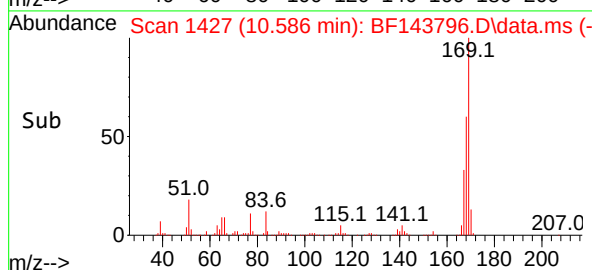
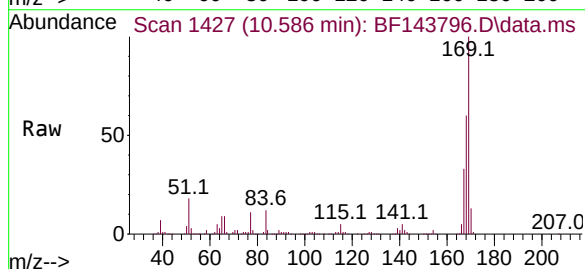
Manual Integrations  
APPROVED

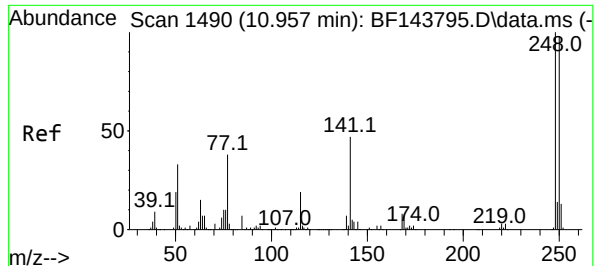
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#66  
n-Nitrosodiphenylamine  
Concen: 47.203 ng  
RT: 10.586 min Scan# 1427  
Delta R.T. 0.000 min  
Lab File: BF143796.D  
Acq: 23 Sep 2025 14:28

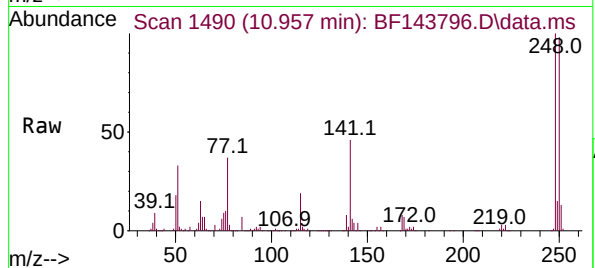
Tgt Ion:169 Resp: 603084  
Ion Ratio Lower Upper  
169 100  
168 59.5 47.9 71.9  
167 33.0 27.0 40.6





#67  
4-Bromophenyl-phenylether  
Concen: 48.975 ng  
RT: 10.957 min Scan# 1490  
Delta R.T. 0.000 min  
Lab File: BF143796.D  
Acq: 23 Sep 2025 14:28

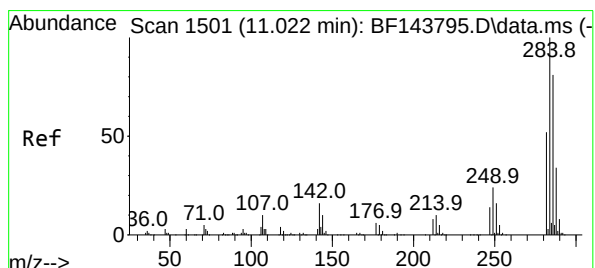
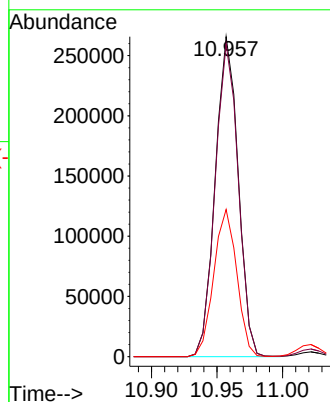
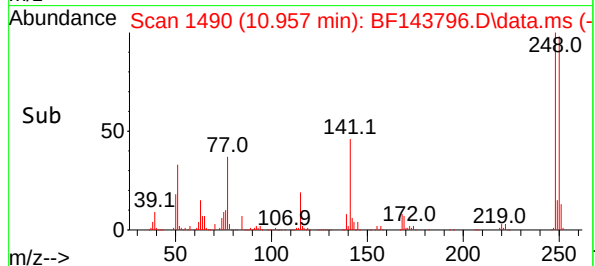
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC050



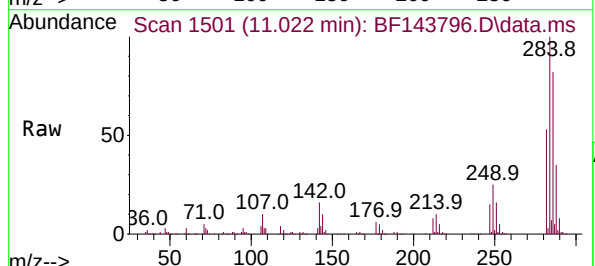
Tgt Ion:248 Resp: 324243  
Ion Ratio Lower Upper  
248 100  
250 97.7 78.7 118.1  
141 46.0 37.9 56.9

Manual Integrations  
APPROVED

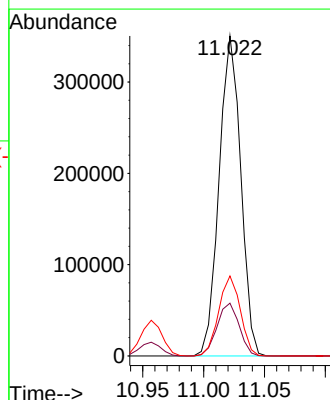
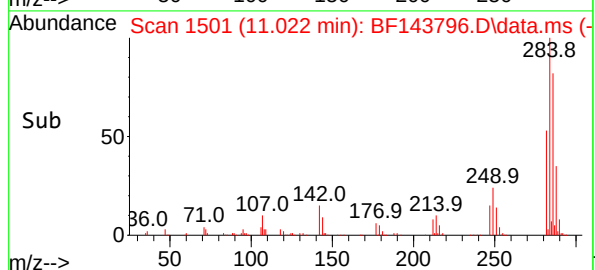
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



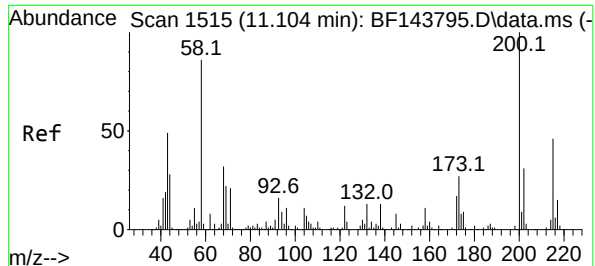
#68  
Hexachlorobenzene  
Concen: 47.539 ng  
RT: 11.022 min Scan# 1501  
Delta R.T. 0.000 min  
Lab File: BF143796.D  
Acq: 23 Sep 2025 14:28



Tgt Ion:284 Resp: 433735  
Ion Ratio Lower Upper  
284 100  
142 16.5 13.1 19.7  
249 25.0 19.5 29.3







#69

Atrazine

Concen: 48.894 ng

RT: 11.110 min Scan# 1516

Delta R.T. 0.000 min

Lab File: BF143796.D

Acq: 23 Sep 2025 14:28

Instrument :

BNA\_F

ClientSampleId :

SSTDICC050

Tgt Ion:200 Resp: 180897

Ion Ratio Lower Upper

200 100

173 26.7 7.2 47.2

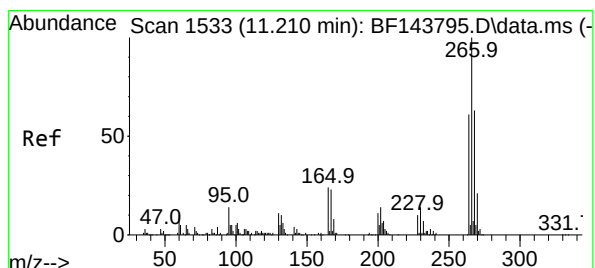
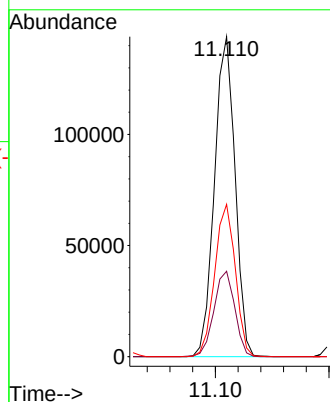
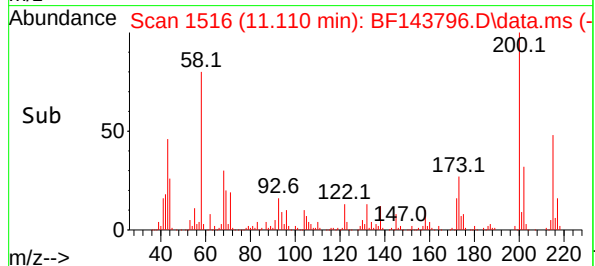
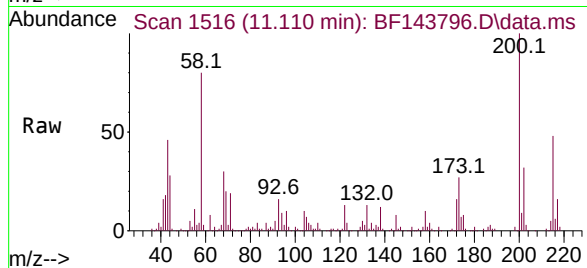
215 47.6 26.0 66.0

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#70

Pentachlorophenol

Concen: 51.024 ng

RT: 11.216 min Scan# 1534

Delta R.T. 0.000 min

Lab File: BF143796.D

Acq: 23 Sep 2025 14:28

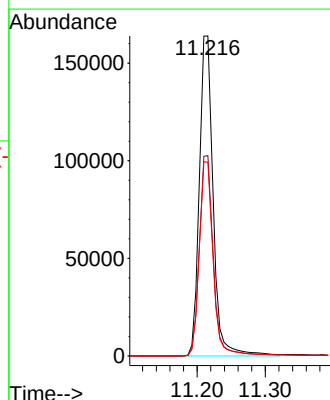
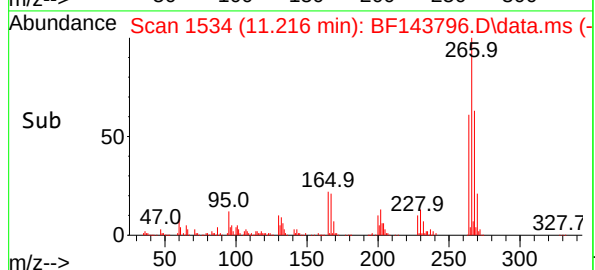
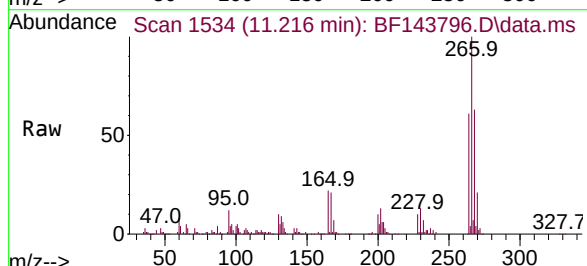
Tgt Ion:266 Resp: 231733

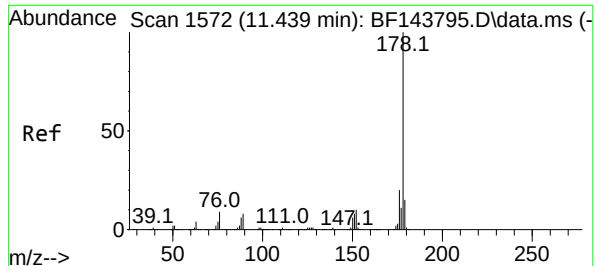
Ion Ratio Lower Upper

266 100

268 62.6 50.5 75.7

264 60.5 48.8 73.2





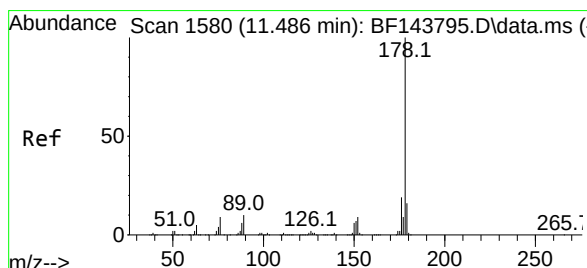
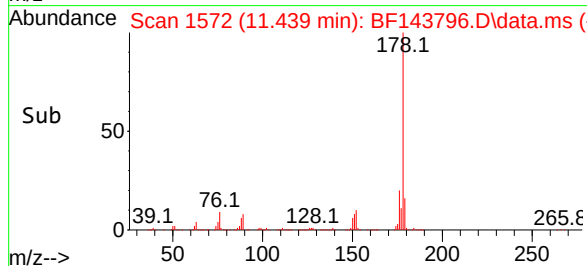
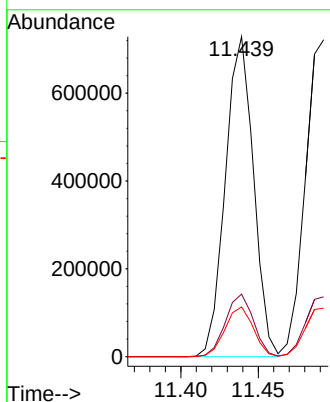
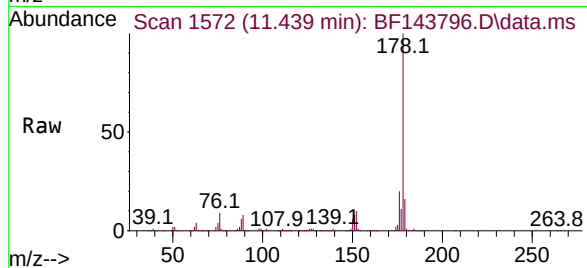
#71  
Phenanthrene  
Concen: 46.149 ng  
RT: 11.439 min Scan# 1572  
Delta R.T. 0.000 min  
Lab File: BF143796.D  
Acq: 23 Sep 2025 14:28

Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC050

Tgt Ion:178 Resp: 920438  
Ion Ratio Lower Upper  
178 100  
176 19.5 15.6 23.4  
179 15.5 12.2 18.4

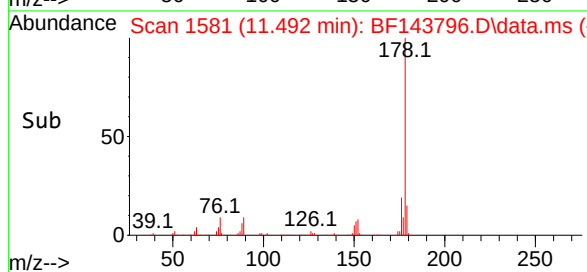
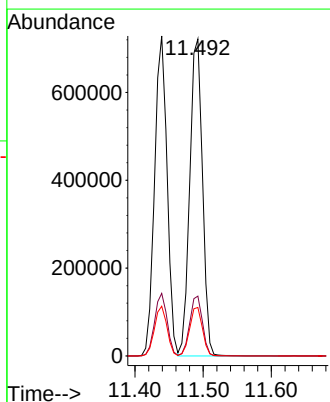
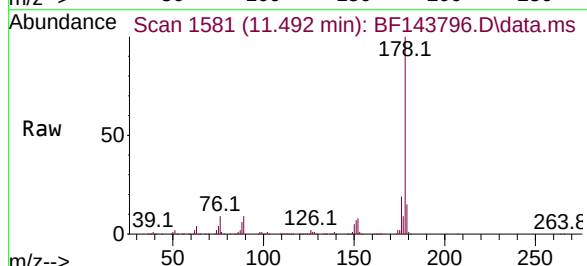
Manual Integrations  
APPROVED

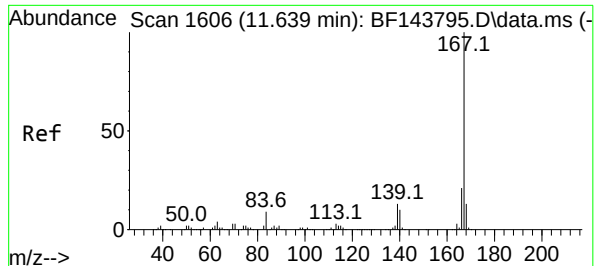
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#72  
Anthracene  
Concen: 46.825 ng  
RT: 11.492 min Scan# 1581  
Delta R.T. 0.000 min  
Lab File: BF143796.D  
Acq: 23 Sep 2025 14:28

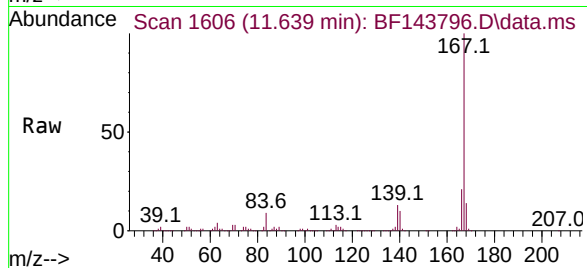
Tgt Ion:178 Resp: 936801  
Ion Ratio Lower Upper  
178 100  
176 18.8 15.3 22.9  
179 15.3 12.8 19.2





#73  
Carbazole  
Concen: 46.564 ng  
RT: 11.639 min Scan# 1606  
Delta R.T. -0.006 min  
Lab File: BF143796.D  
Acq: 23 Sep 2025 14:28

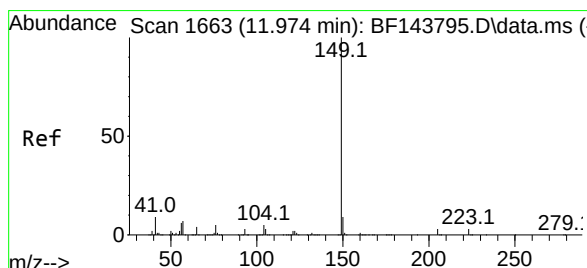
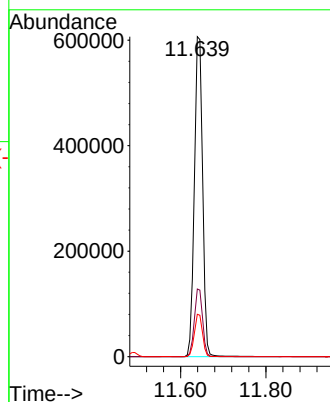
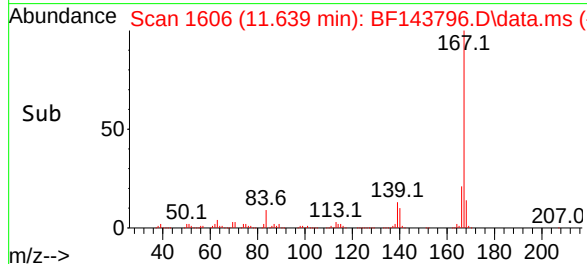
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC050



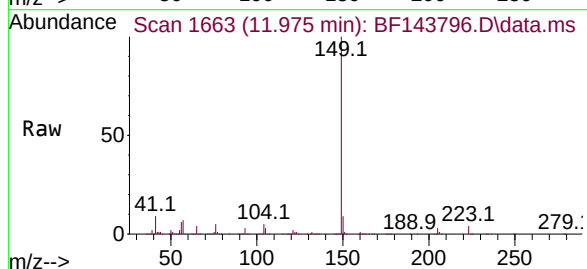
Tgt Ion:167 Resp: 814499  
Ion Ratio Lower Upper  
167 100  
166 21.2 17.0 25.4  
139 13.2 10.6 15.8

Manual Integrations  
APPROVED

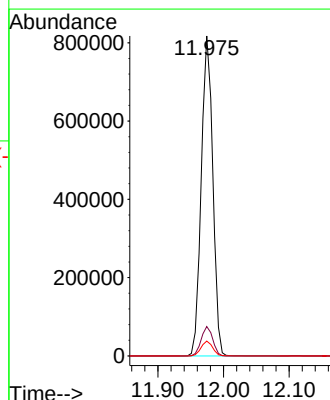
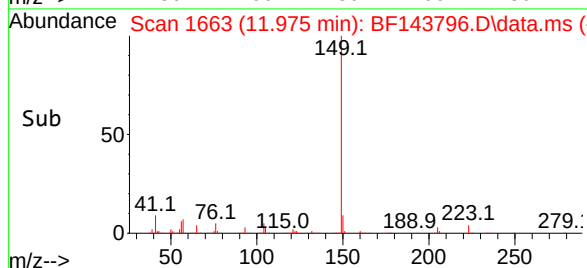
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025

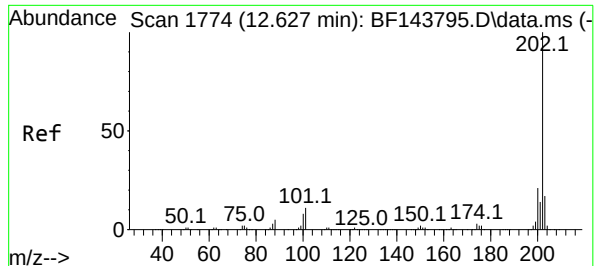


#74  
Di-n-butylphthalate  
Concen: 49.211 ng  
RT: 11.975 min Scan# 1663  
Delta R.T. 0.000 min  
Lab File: BF143796.D  
Acq: 23 Sep 2025 14:28



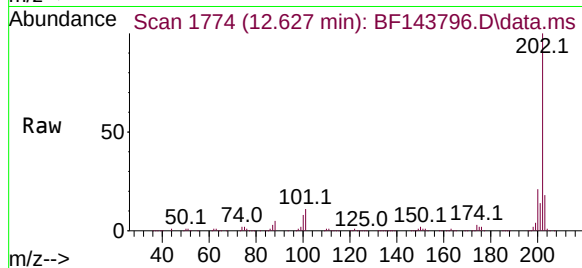
Tgt Ion:149 Resp: 990005  
Ion Ratio Lower Upper  
149 100  
150 9.2 7.3 10.9  
104 4.6 3.6 5.4





#75  
Fluoranthene  
Concen: 46.163 ng  
RT: 12.627 min Scan# 1774  
Delta R.T. 0.000 min  
Lab File: BF143796.D  
Acq: 23 Sep 2025 14:28

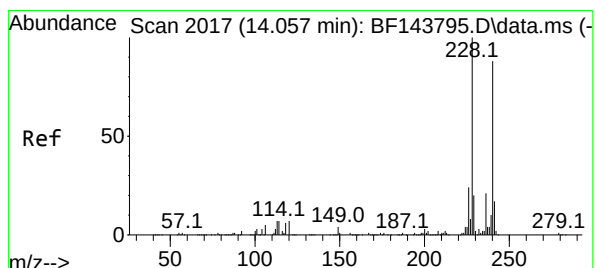
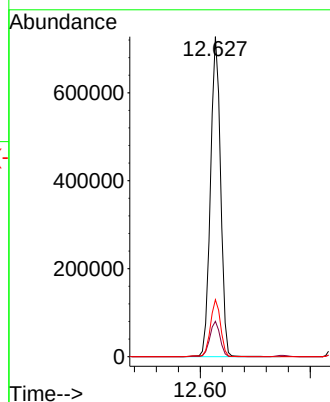
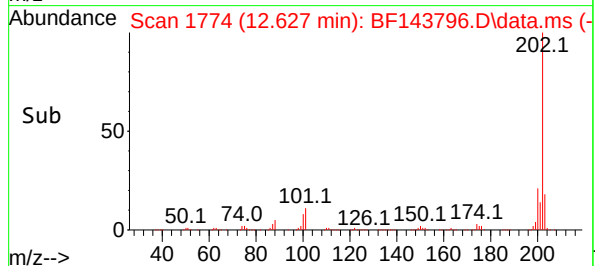
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC050



Tgt Ion:202 Resp: 92604  
Ion Ratio Lower Upper  
202 100  
101 11.1 0.0 31.1  
203 17.8 0.0 37.4

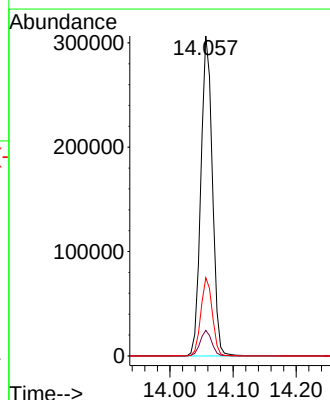
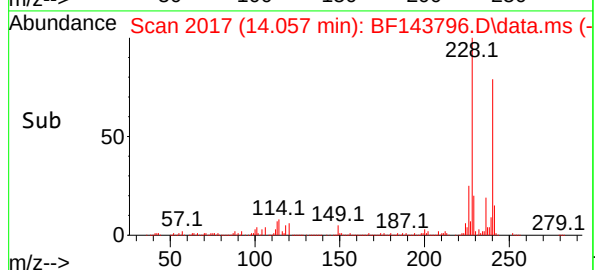
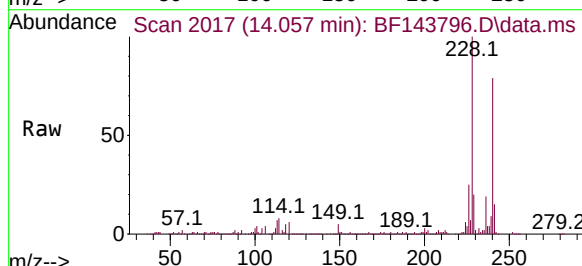
Manual Integrations  
APPROVED

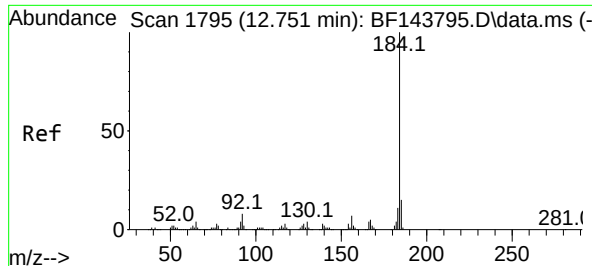
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.057 min Scan# 1717  
Delta R.T. -0.006 min  
Lab File: BF143796.D  
Acq: 23 Sep 2025 14:28

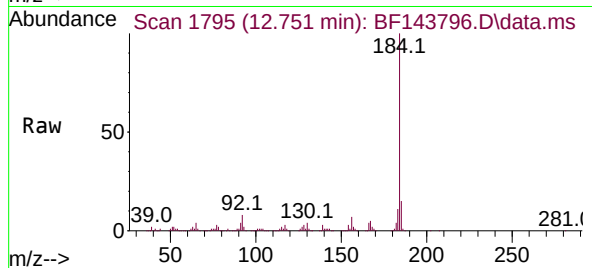
Tgt Ion:240 Resp: 388120  
Ion Ratio Lower Upper  
240 100  
120 8.0 6.2 9.4  
236 24.4 19.4 29.2





#77  
Benzidine  
Concen: 58.531 ng  
RT: 12.751 min Scan# 1795  
Delta R.T. 0.000 min  
Lab File: BF143796.D  
Acq: 23 Sep 2025 14:28

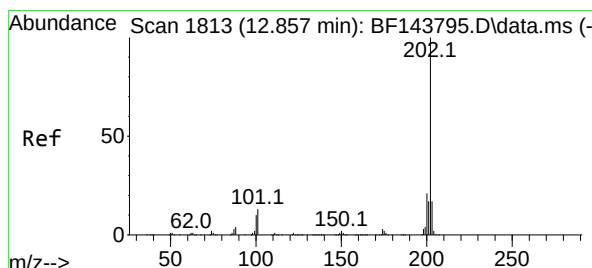
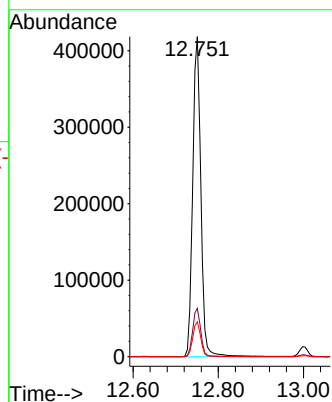
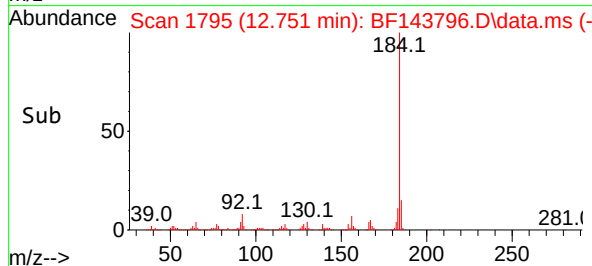
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC050



Tgt Ion:184 Resp: 553563  
Ion Ratio Lower Upper  
184 100  
185 15.1 11.6 17.4  
183 10.9 8.6 13.0

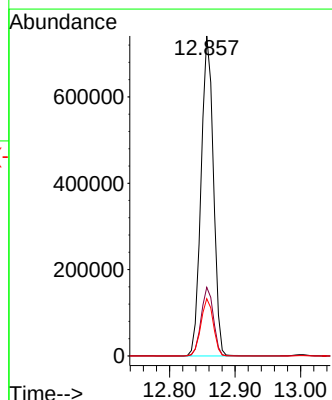
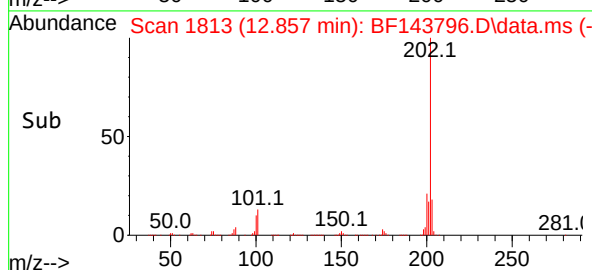
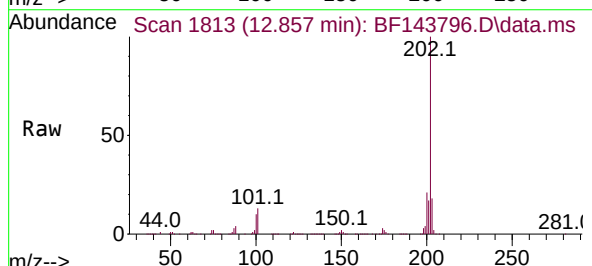
Manual Integrations  
APPROVED

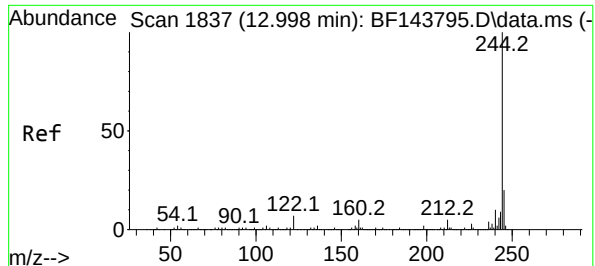
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#78  
Pyrene  
Concen: 50.323 ng  
RT: 12.857 min Scan# 1813  
Delta R.T. 0.000 min  
Lab File: BF143796.D  
Acq: 23 Sep 2025 14:28

Tgt Ion:202 Resp: 960254  
Ion Ratio Lower Upper  
202 100  
200 21.4 17.0 25.4  
203 17.9 13.9 20.9





#79

Terphenyl-d14

Concen: 96.285 ng

RT: 12.998 min Scan# 1837

Delta R.T. -0.006 min

Lab File: BF143796.D

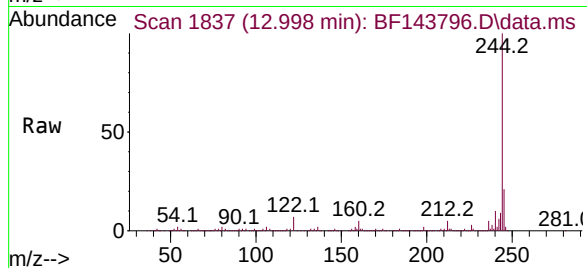
Acq: 23 Sep 2025 14:28

Instrument :

BNA\_F

ClientSampleId :

SSTDICC050



Tgt Ion:244 Resp: 1903421

Ion Ratio Lower Upper

244 100

212 5.0 3.9 5.9

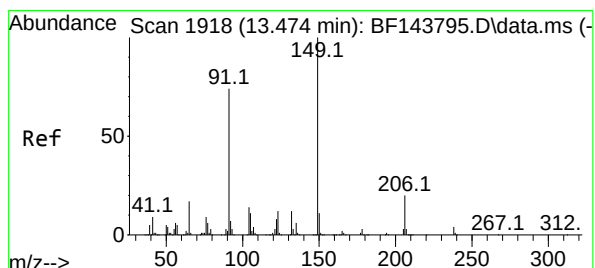
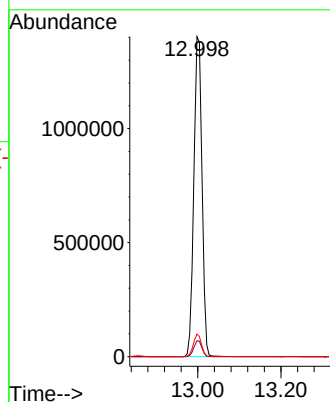
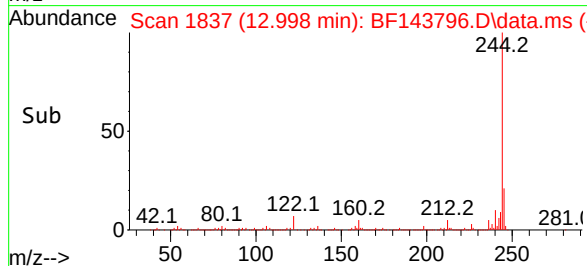
122 7.0 5.6 8.4

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#80

Butylbenzylphthalate

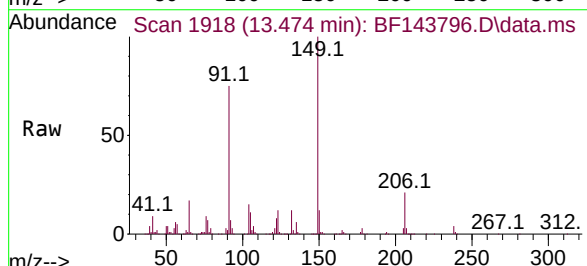
Concen: 53.969 ng

RT: 13.474 min Scan# 1918

Delta R.T. -0.006 min

Lab File: BF143796.D

Acq: 23 Sep 2025 14:28



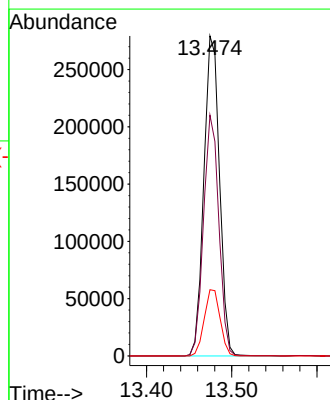
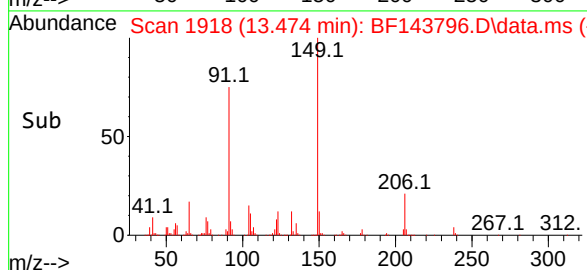
Tgt Ion:149 Resp: 356288

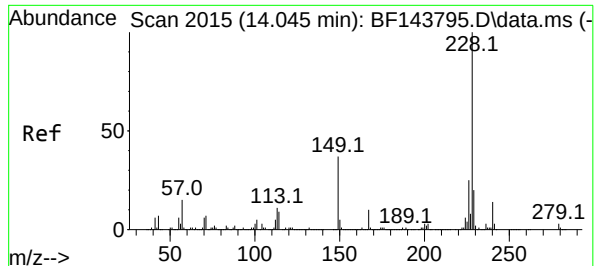
Ion Ratio Lower Upper

149 100

91 75.2 59.5 89.3

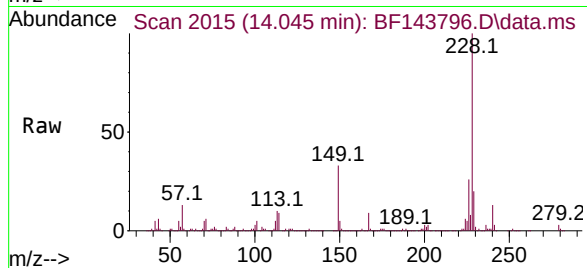
206 20.7 16.1 24.1





#81  
Benzo(a)anthracene  
Concen: 48.411 ng  
RT: 14.045 min Scan# 2015  
Delta R.T. -0.006 min  
Lab File: BF143796.D  
Acq: 23 Sep 2025 14:28

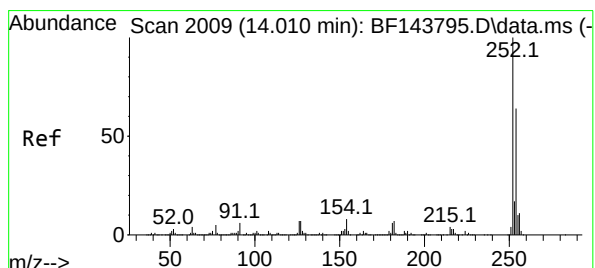
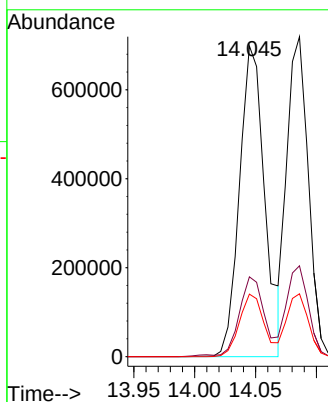
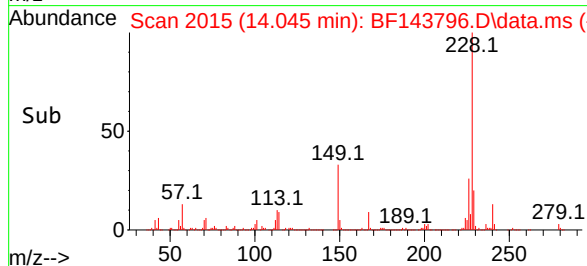
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC050



Tgt Ion:228 Resp: 1009406  
Ion Ratio Lower Upper  
228 100  
226 25.7 20.2 30.2  
229 20.1 16.1 24.1

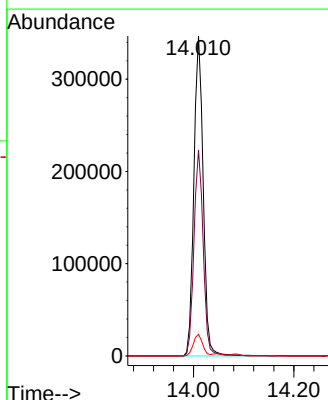
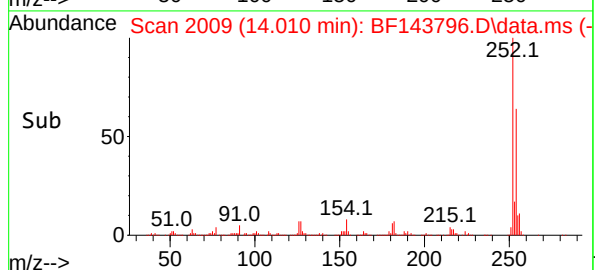
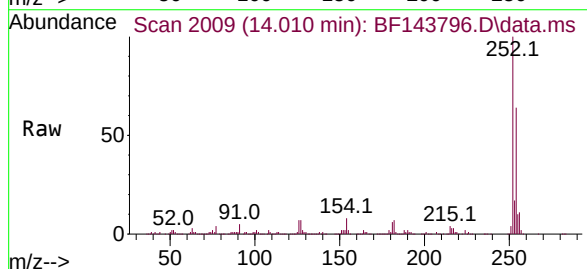
Manual Integrations  
APPROVED

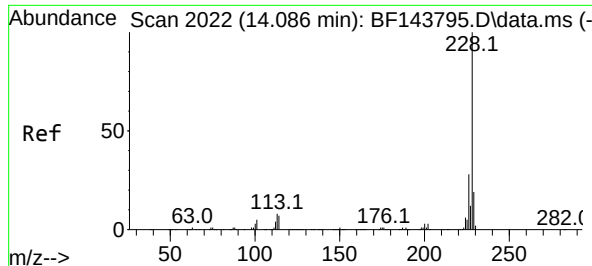
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#82  
3,3'-Dichlorobenzidine  
Concen: 49.304 ng  
RT: 14.010 min Scan# 2009  
Delta R.T. 0.000 min  
Lab File: BF143796.D  
Acq: 23 Sep 2025 14:28

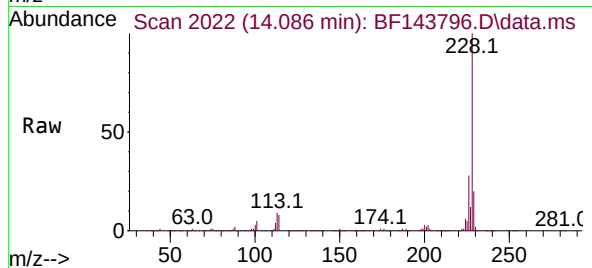
Tgt Ion:252 Resp: 445355  
Ion Ratio Lower Upper  
252 100  
254 64.4 51.5 77.3  
126 6.7 5.4 8.2





#83  
Chrysene  
Concen: 46.750 ng  
RT: 14.086 min Scan# 2022  
Delta R.T. 0.000 min  
Lab File: BF143796.D  
Acq: 23 Sep 2025 14:28

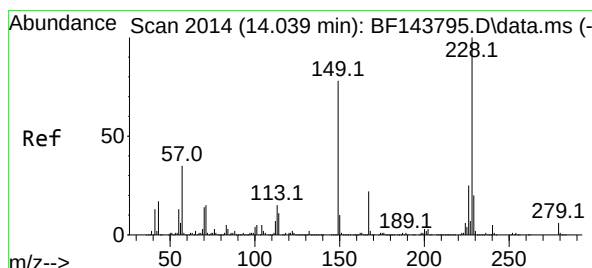
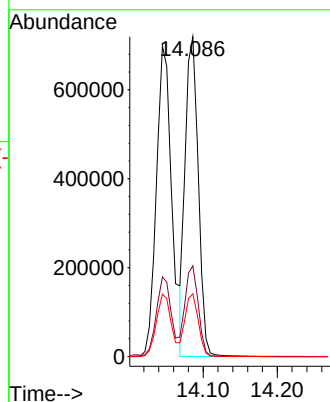
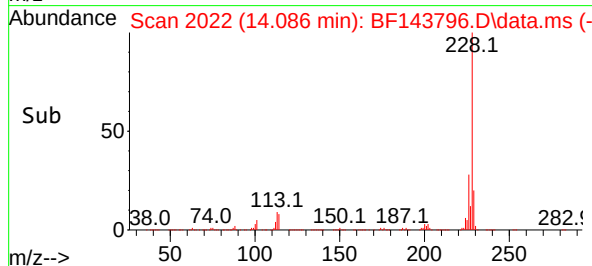
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC050



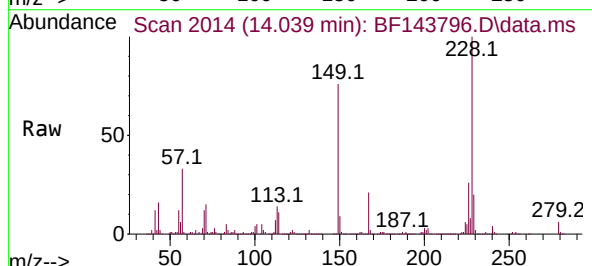
Tgt Ion:228 Resp: 882028  
Ion Ratio Lower Upper  
228 100  
226 28.4 22.6 33.8  
229 19.6 15.6 23.4

Manual Integrations  
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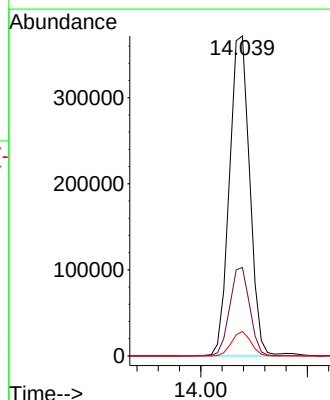
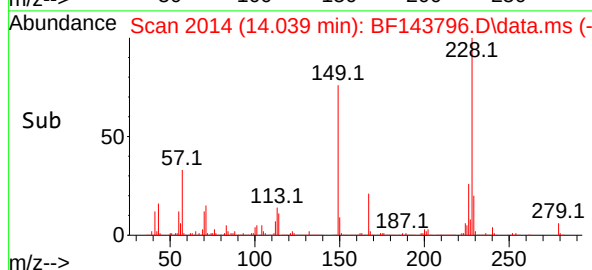
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



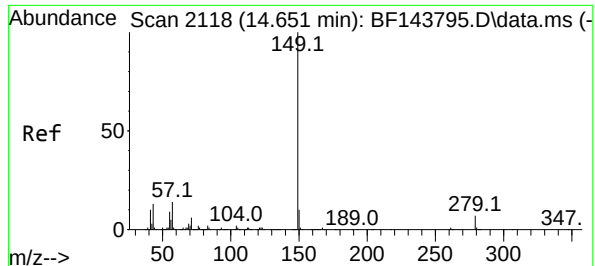
#84  
Bis(2-ethylhexyl)phthalate  
Concen: 50.632 ng  
RT: 14.039 min Scan# 2014  
Delta R.T. 0.000 min  
Lab File: BF143796.D  
Acq: 23 Sep 2025 14:28



Tgt Ion:149 Resp: 489947  
Ion Ratio Lower Upper  
149 100  
167 27.6 22.2 33.2  
279 7.6 6.0 9.0

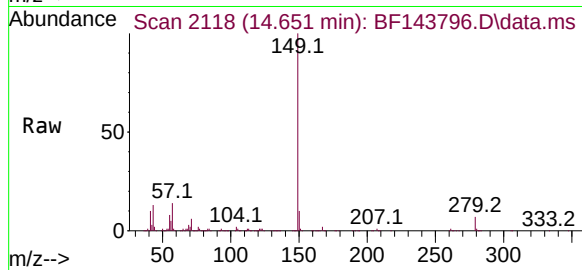






#85  
Di-n-octyl phthalate  
Concen: 49.877 ng  
RT: 14.651 min Scan# 2118  
Delta R.T. -0.006 min  
Lab File: BF143796.D  
Acq: 23 Sep 2025 14:28

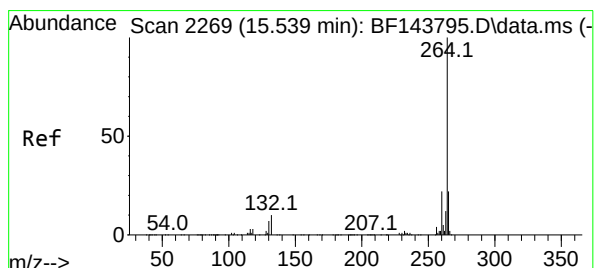
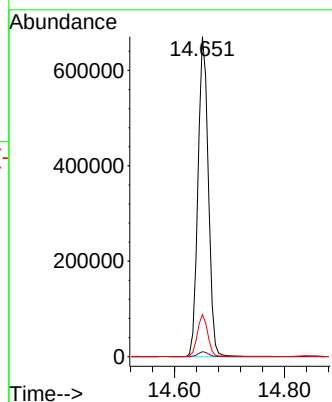
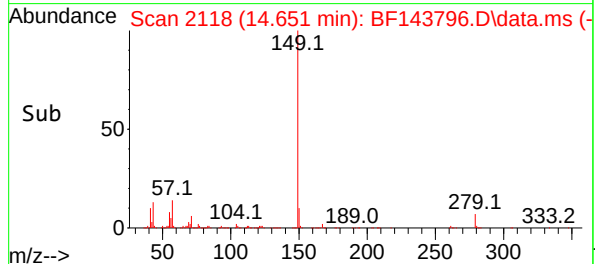
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC050



Tgt Ion:149 Resp: 875478  
Ion Ratio Lower Upper  
149 100  
167 1.5 1.1 1.7  
43 13.2 10.7 16.1

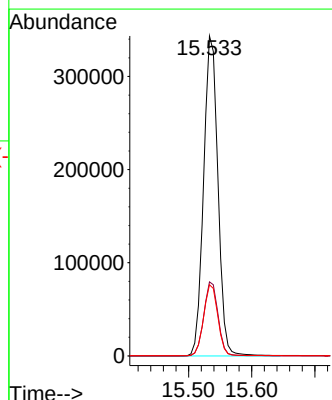
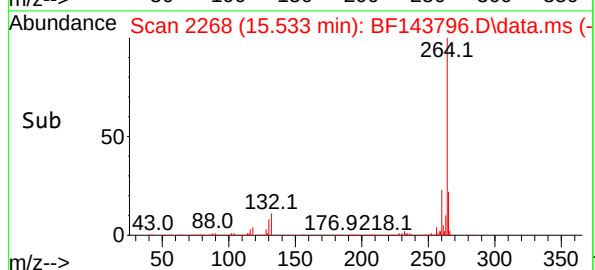
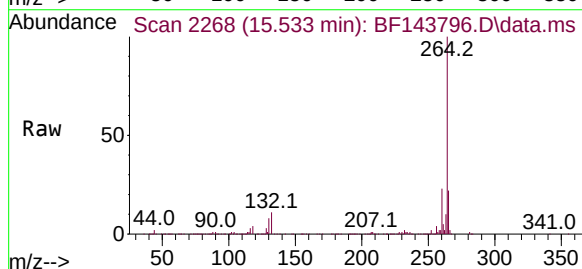
Manual Integrations  
APPROVED

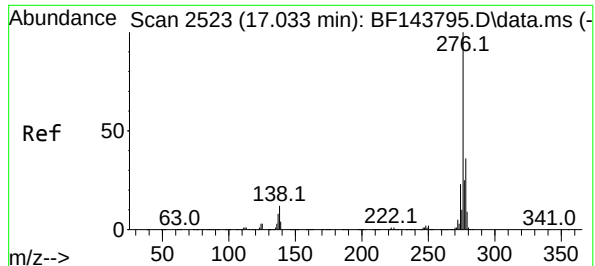
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.533 min Scan# 2268  
Delta R.T. -0.006 min  
Lab File: BF143796.D  
Acq: 23 Sep 2025 14:28

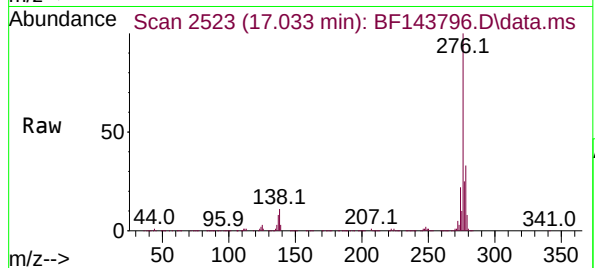
Tgt Ion:264 Resp: 541272  
Ion Ratio Lower Upper  
264 100  
260 23.1 17.9 26.9  
265 22.2 17.7 26.5





#87  
Indeno(1,2,3-cd)pyrene  
Concen: 49.707 ng  
RT: 17.033 min Scan# 2523  
Delta R.T. -0.012 min  
Lab File: BF143796.D  
Acq: 23 Sep 2025 14:28

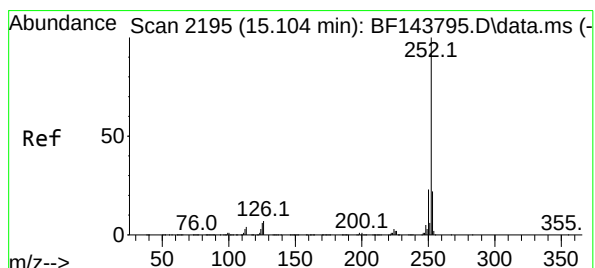
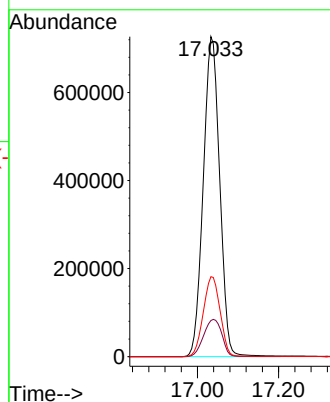
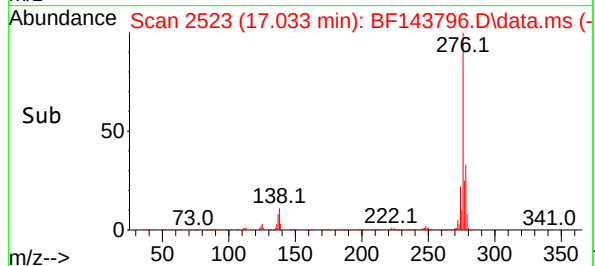
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC050



Tgt Ion:276 Resp: 2041373  
Ion Ratio Lower Upper  
276 100  
138 12.9 10.6 15.8  
277 25.6 20.7 31.1

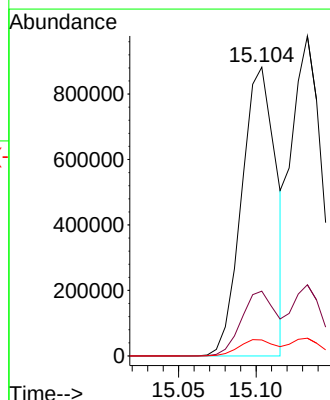
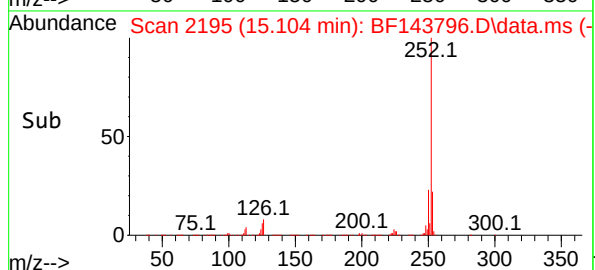
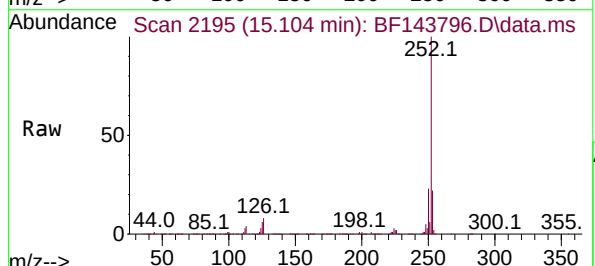
Manual Integrations  
APPROVED

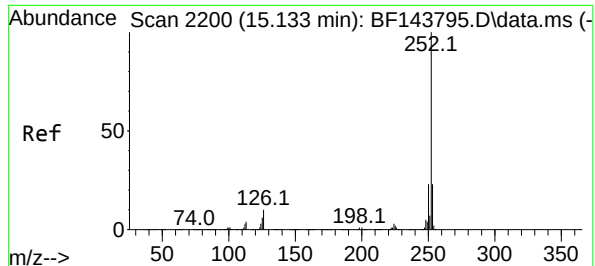
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#88  
Benzo(b)fluoranthene  
Concen: 49.206 ng  
RT: 15.104 min Scan# 2195  
Delta R.T. 0.000 min  
Lab File: BF143796.D  
Acq: 23 Sep 2025 14:28

Tgt Ion:252 Resp: 1356316  
Ion Ratio Lower Upper  
252 100  
253 22.4 17.8 26.8  
125 5.5 4.4 6.6





#89

Benzo(k)fluoranthene

Concen: 48.662 ng

RT: 15.133 min Scan# 2200

Delta R.T. -0.006 min

Lab File: BF143796.D

Acq: 23 Sep 2025 14:28

Instrument :

BNA\_F

ClientSampleId :

SSTDICC050

Tgt Ion:252 Resp: 134759

Ion Ratio Lower Upper

252 100

253 22.2 17.9 26.9

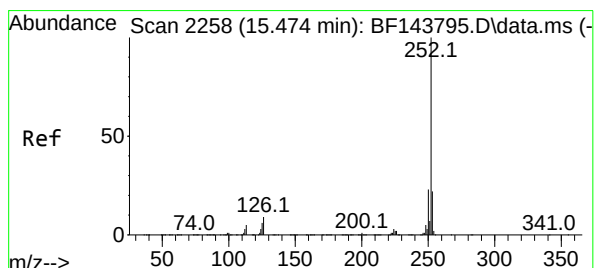
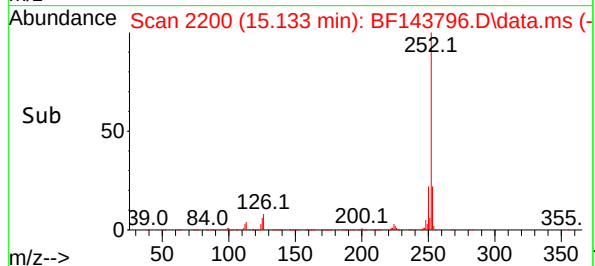
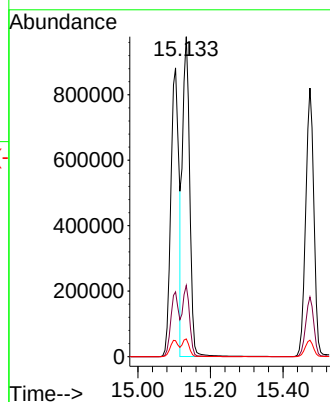
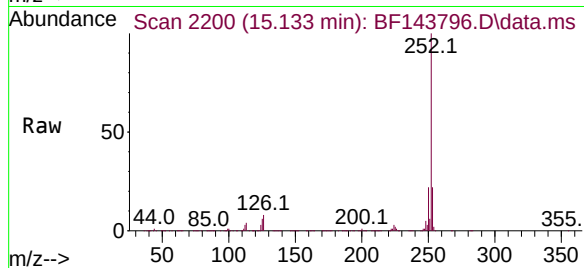
125 5.5 4.6 6.8

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#90

Benzo(a)pyrene

Concen: 49.541 ng

RT: 15.474 min Scan# 2258

Delta R.T. -0.006 min

Lab File: BF143796.D

Acq: 23 Sep 2025 14:28

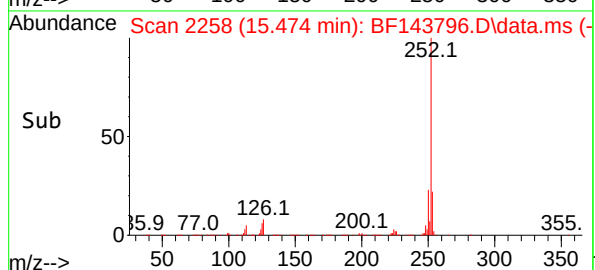
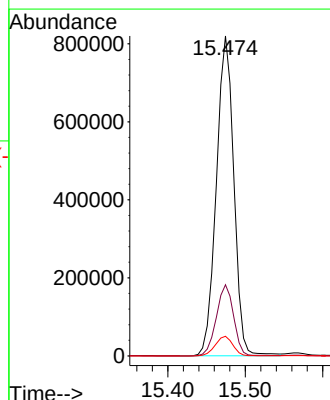
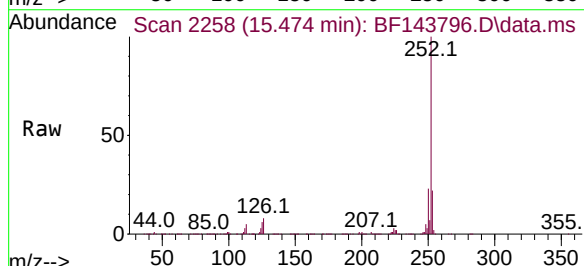
Tgt Ion:252 Resp: 1283604

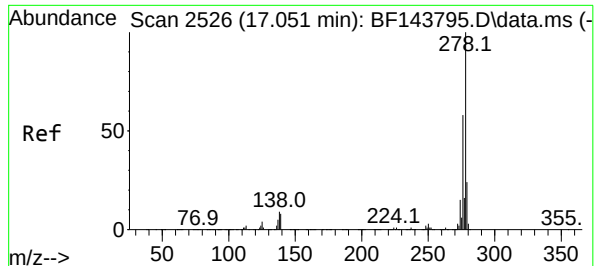
Ion Ratio Lower Upper

252 100

253 22.2 17.6 26.4

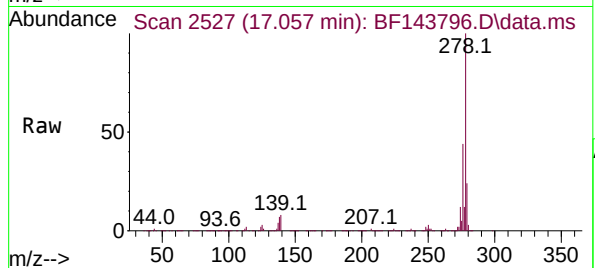
125 6.1 5.0 7.4





#91  
Dibenzo(a,h)anthracene  
Concen: 49.826 ng  
RT: 17.057 min Scan# 2526  
Delta R.T. -0.012 min  
Lab File: BF143796.D  
Acq: 23 Sep 2025 14:28

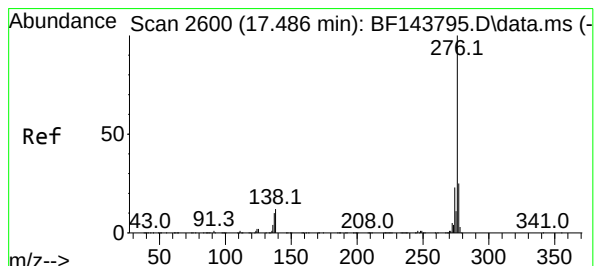
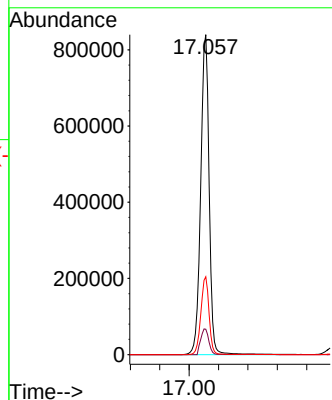
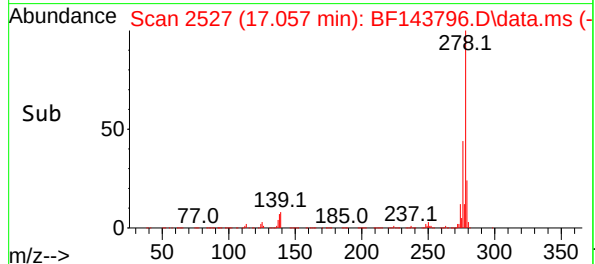
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC050



Tgt Ion:278 Resp: 1673679  
Ion Ratio Lower Upper  
278 100  
139 7.9 6.7 10.1  
279 24.3 19.3 28.9

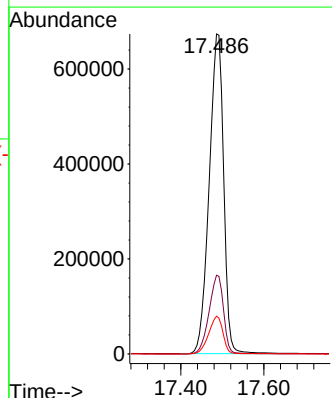
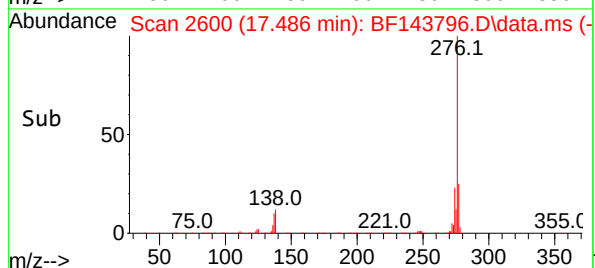
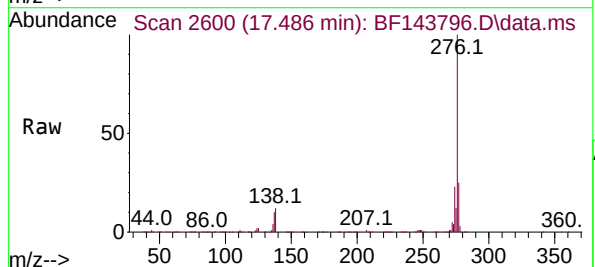
Manual Integrations  
APPROVED

Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#92  
Benzo(g,h,i)perylene  
Concen: 50.151 ng  
RT: 17.486 min Scan# 2600  
Delta R.T. -0.018 min  
Lab File: BF143796.D  
Acq: 23 Sep 2025 14:28

Tgt Ion:276 Resp: 1623902  
Ion Ratio Lower Upper  
276 100  
277 24.6 19.6 29.4  
138 11.8 9.2 13.8



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF092325\  
 Data File : BF143797.D  
 Acq On : 23 Sep 2025 14:58  
 Operator : RC/JU  
 Sample : SSTDICC060  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SSTDICC060

Manual Integrations  
 APPROVED

Reviewed By :Rahul Chavli 09/24/2025  
 Supervised By :Jagrut Upadhyay 09/24/2025

Quant Time: Sep 23 17:06:59 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF092325.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Sep 23 16:31:21 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| -----                         |        |      |          |         |       |          |
| Internal Standards            |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.887  | 152  | 132440   | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8            | 8.169  | 136  | 482940   | 20.000  | ng    | 0.00     |
| 39) Acenaphthene-d10          | 9.928  | 164  | 240564   | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10          | 11.416 | 188  | 364411   | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12              | 14.057 | 240  | 359318   | 20.000  | ng    | 0.00     |
| 86) Perylene-d12              | 15.533 | 264  | 519571   | 20.000  | ng    | 0.00     |
|                               |        |      |          |         |       |          |
| System Monitoring Compounds   |        |      |          |         |       |          |
| 5) 2-Fluorophenol             | 5.498  | 112  | 948307   | 115.234 | ng    | 0.00     |
| 7) Phenol-d6                  | 6.510  | 99   | 1089571  | 112.196 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 7.451  | 82   | 956391   | 124.628 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 10.716 | 330  | 396463   | 115.480 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 9.245  | 172  | 1664507  | 102.249 | ng    | 0.00     |
| 79) Terphenyl-d14             | 13.004 | 244  | 2132520  | 116.521 | ng    | 0.00     |
|                               |        |      |          |         |       |          |
| Target Compounds              |        |      |          |         |       | Qvalue   |
| 2) 1,4-Dioxane                | 2.646  | 88   | 231372   | 59.300  | ng    | 98       |
| 3) Pyridine                   | 3.416  | 79   | 636709   | 60.455  | ng    | 99       |
| 4) n-Nitrosodimethylamine     | 3.369  | 42   | 324819   | 61.507  | ng    | 99       |
| 6) Aniline                    | 6.551  | 93   | 785861   | 57.487  | ng    | 100      |
| 8) 2-Chlorophenol             | 6.669  | 128  | 494437   | 59.248  | ng    | 99       |
| 9) Benzaldehyde               | 6.440  | 77   | 611123   | 74.093  | ng    | 99       |
| 10) Phenol                    | 6.522  | 94   | 644396m  | 58.860  | ng    |          |
| 11) bis(2-Chloroethyl)ether   | 6.622  | 93   | 504773   | 58.819  | ng    | 99       |
| 12) 1,3-Dichlorobenzene       | 6.828  | 146  | 550246   | 56.789  | ng    | 99       |
| 13) 1,4-Dichlorobenzene       | 6.904  | 146  | 548117   | 56.685  | ng    | 100      |
| 14) 1,2-Dichlorobenzene       | 7.057  | 146  | 520261   | 56.809  | ng    | 99       |
| 15) Benzyl Alcohol            | 7.028  | 79   | 414075   | 60.843  | ng    | 99       |
| 16) 2,2'-oxybis(1-Chloropr... | 7.157  | 45   | 1178357  | 57.906  | ng    | 100      |
| 17) 2-Methylphenol            | 7.134  | 107  | 381125   | 58.990  | ng    | 99       |
| 18) Hexachloroethane          | 7.404  | 117  | 195969   | 57.629  | ng    | 95       |
| 19) n-Nitroso-di-n-propyla... | 7.304  | 70   | 345358   | 57.020  | ng    | 100      |
| 20) 3+4-Methylphenols         | 7.287  | 107  | 454811   | 57.806  | ng    | 95       |
| 22) Acetophenone              | 7.298  | 105  | 584748   | 55.128  | ng    | 98       |
| 24) Nitrobenzene              | 7.469  | 77   | 523344   | 59.844  | ng    | 98       |
| 25) Isophorone                | 7.710  | 82   | 917958   | 59.707  | ng    | 99       |
| 26) 2-Nitrophenol             | 7.787  | 139  | 225802   | 62.050  | ng    | 96       |
| 27) 2,4-Dimethylphenol        | 7.816  | 122  | 413744   | 60.209  | ng    | 99       |
| 28) bis(2-Chloroethoxy)met... | 7.916  | 93   | 567489   | 56.813  | ng    | 99       |
| 29) 2,4-Dichlorophenol        | 8.022  | 162  | 402655   | 59.550  | ng    | 99       |
| 30) 1,2,4-Trichlorobenzene    | 8.110  | 180  | 404040   | 57.579  | ng    | 100      |
| 31) Naphthalene               | 8.192  | 128  | 1287223  | 55.678  | ng    | 99       |
| 32) Benzoic acid              | 7.916  | 122  | 230784   | 69.608  | ng    | 97       |
| 33) 4-Chloroaniline           | 8.239  | 127  | 467252   | 57.512  | ng    | 99       |
| 34) Hexachlorobutadiene       | 8.310  | 225  | 303886   | 58.093  | ng    | 99       |
| 35) Caprolactam               | 8.610  | 113  | 110413   | 63.887  | ng    | 94       |
| 36) 4-Chloro-3-methylphenol   | 8.710  | 107  | 379597   | 59.859  | ng    | 99       |
| 37) 2-Methylnaphthalene       | 8.881  | 142  | 828108   | 56.174  | ng    | 99       |
| 38) 1-Methylnaphthalene       | 8.981  | 142  | 796215   | 56.428  | ng    | 100      |
| 40) 1,2,4,5-Tetrachloroben... | 9.051  | 216  | 405534   | 55.860  | ng    | 99       |
| 41) Hexachlorocyclopentadiene | 9.039  | 237  | 289489   | 62.918  | ng    | 99       |
| 43) 2,4,6-Trichlorophenol     | 9.157  | 196  | 282839   | 62.219  | ng    | 99       |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF092325\  
 Data File : BF143797.D  
 Acq On : 23 Sep 2025 14:58  
 Operator : RC/JU  
 Sample : SSTDICC060  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SSTDICC060

Manual Integrations  
 APPROVED

Reviewed By :Rahul Chavli 09/24/2025  
 Supervised By :Jagrut Upadhyay 09/24/2025

Quant Time: Sep 23 17:06:59 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF092325.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Sep 23 16:31:21 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 44) 2,4,5-Trichlorophenol     | 9.192  | 196  | 289963   | 60.982 | ng    | 99       |
| 46) 1,1'-Biphenyl             | 9.345  | 154  | 957109   | 54.963 | ng    | 99       |
| 47) 2-Chloronaphthalene       | 9.375  | 162  | 779426   | 55.605 | ng    | 99       |
| 48) 2-Nitroaniline            | 9.463  | 65   | 288403   | 68.075 | ng    | 97       |
| 49) Acenaphthylene            | 9.786  | 152  | 1091835  | 56.581 | ng    | 100      |
| 50) Dimethylphthalate         | 9.639  | 163  | 859613   | 58.627 | ng    | 100      |
| 51) 2,6-Dinitrotoluene        | 9.704  | 165  | 166977   | 69.313 | ng    | 98       |
| 52) Acenaphthene              | 9.957  | 154  | 704698   | 55.494 | ng    | 99       |
| 53) 3-Nitroaniline            | 9.875  | 138  | 192607   | 65.960 | ng    | 99       |
| 54) 2,4-Dinitrophenol         | 9.975  | 184  | 54678    | 61.464 | ng    | 81       |
| 55) Dibenzofuran              | 10.134 | 168  | 1004529  | 55.941 | ng    | 100      |
| 56) 4-Nitrophenol             | 10.022 | 139  | 142495   | 60.557 | ng    | 97       |
| 57) 2,4-Dinitrotoluene        | 10.104 | 165  | 222260   | 61.297 | ng    | 99       |
| 58) Fluorene                  | 10.475 | 166  | 711929   | 53.330 | ng    | 99       |
| 59) 2,3,4,6-Tetrachlorophenol | 10.245 | 232  | 260302   | 63.904 | ng    | 99       |
| 60) Diethylphthalate          | 10.345 | 149  | 800261   | 58.305 | ng    | 99       |
| 61) 4-Chlorophenyl-phenyle... | 10.469 | 204  | 378141   | 55.593 | ng    | 98       |
| 62) 4-Nitroaniline            | 10.486 | 138  | 175465   | 63.907 | ng    | 99       |
| 63) Azobenzene                | 10.628 | 77   | 839301   | 58.022 | ng    | 99       |
| 65) 4,6-Dinitro-2-methylph... | 10.516 | 198  | 90861    | 62.624 | ng    | 91       |
| 66) n-Nitrosodiphenylamine    | 10.586 | 169  | 695896   | 58.067 | ng    | 99       |
| 67) 4-Bromophenyl-phenylether | 10.957 | 248  | 373431   | 60.132 | ng    | 99       |
| 68) Hexachlorobenzene         | 11.022 | 284  | 504432   | 58.941 | ng    | 99       |
| 69) Atrazine                  | 11.110 | 200  | 204628   | 58.963 | ng    | 98       |
| 70) Pentachlorophenol         | 11.216 | 266  | 277473   | 65.133 | ng    | 100      |
| 71) Phenanthrene              | 11.439 | 178  | 1042871  | 55.742 | ng    | 99       |
| 72) Anthracene                | 11.492 | 178  | 1052693  | 56.095 | ng    | 100      |
| 73) Carbazole                 | 11.645 | 167  | 925032   | 56.377 | ng    | 99       |
| 74) Di-n-butylphthalate       | 11.975 | 149  | 1113894  | 59.029 | ng    | 100      |
| 75) Fluoranthene              | 12.627 | 202  | 1044763  | 55.523 | ng    | 99       |
| 77) Benzidine                 | 12.751 | 184  | 596216   | 68.094 | ng    | 99       |
| 78) Pyrene                    | 12.857 | 202  | 1089660  | 61.683 | ng    | 100      |
| 80) Butylbenzylphthalate      | 13.474 | 149  | 411027   | 67.252 | ng    | 99       |
| 81) Benzo(a)anthracene        | 14.045 | 228  | 1148366  | 59.491 | ng    | 100      |
| 82) 3,3'-Dichlorobenzidine    | 14.010 | 252  | 517428   | 61.874 | ng    | 100      |
| 83) Chrysene                  | 14.086 | 228  | 1014385  | 58.075 | ng    | 100      |
| 84) Bis(2-ethylhexyl)phtha... | 14.039 | 149  | 556458   | 62.115 | ng    | 100      |
| 85) Di-n-octyl phthalate      | 14.651 | 149  | 1010224  | 62.167 | ng    | 99       |
| 87) Indeno(1,2,3-cd)pyrene    | 17.039 | 276  | 2413125  | 61.213 | ng    | 99       |
| 88) Benzo(b)fluoranthene      | 15.104 | 252  | 1562058  | 59.037 | ng    | 100      |
| 89) Benzo(k)fluoranthene      | 15.133 | 252  | 1604602  | 60.363 | ng    | 99       |
| 90) Benzo(a)pyrene            | 15.474 | 252  | 1514049  | 60.876 | ng    | 99       |
| 91) Dibenzo(a,h)anthracene    | 17.057 | 278  | 1959781  | 60.781 | ng    | 99       |
| 92) Benzo(g,h,i)perylene      | 17.492 | 276  | 1938747  | 62.375 | ng    | 100      |

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

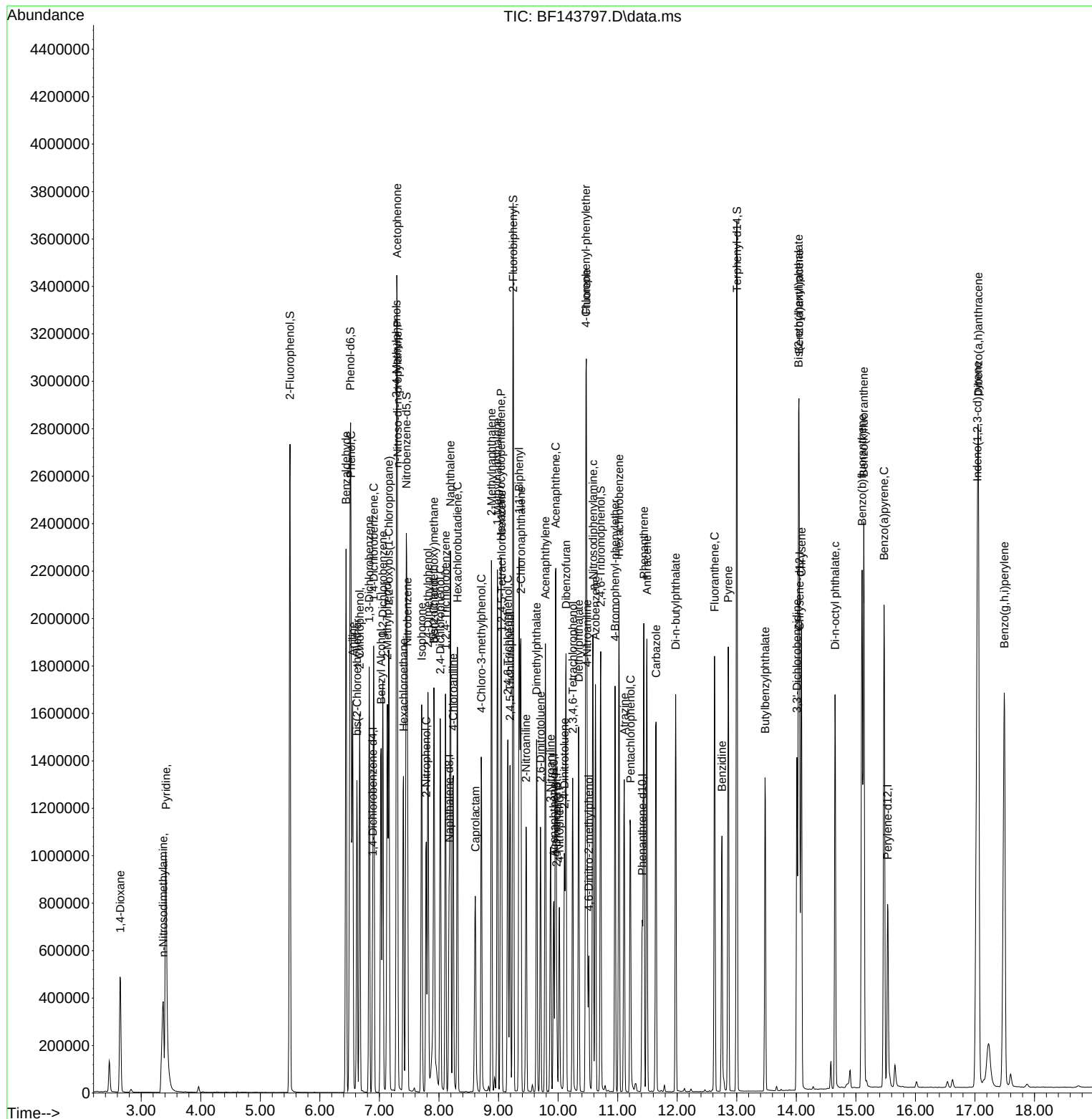
Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF092325\  
Data File : BF143797.D  
Acq On : 23 Sep 2025 14:58  
Operator : RC/JU  
Sample : SSTDICC060  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

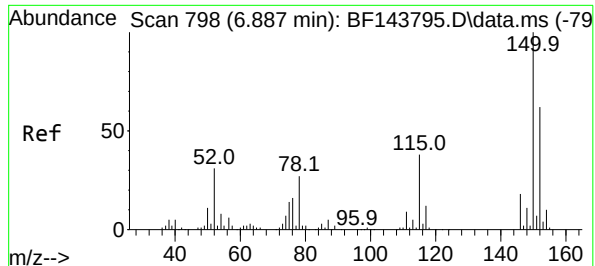
**Instrument :**  
BNA\_F  
**ClientSampleId :**  
SSTDICC060

## Manual Integrations APPROVED

Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025

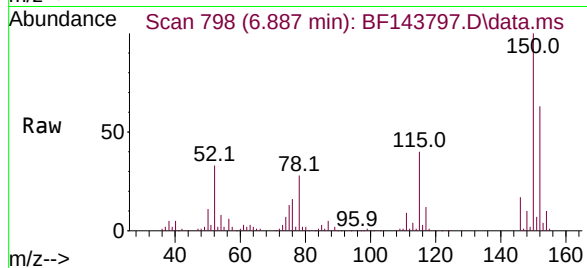
Quant Time: Sep 23 17:06:59 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF092325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Sep 23 16:31:21 2025  
Response via : Initial Calibration





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.887 min Scan# 79  
Delta R.T. -0.000 min  
Lab File: BF143797.D  
Acq: 23 Sep 2025 14:58

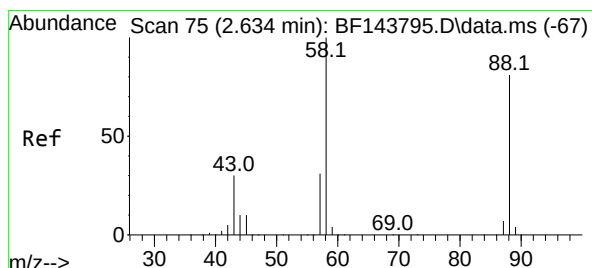
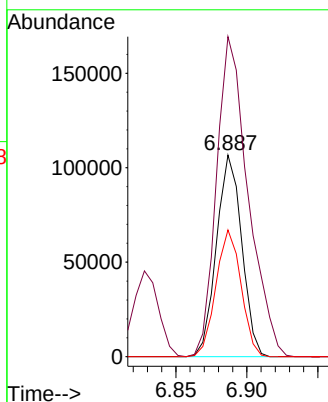
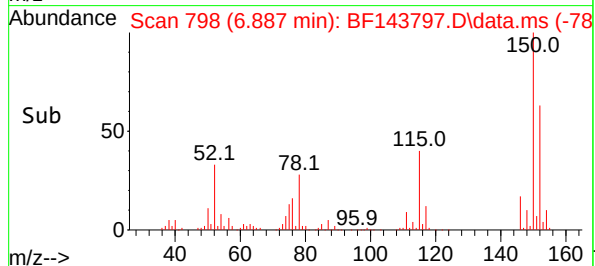
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC060



Tgt Ion:152 Resp: 132440  
Ion Ratio Lower Upper  
152 100  
150 158.8 129.6 194.4  
115 62.9 49.0 73.4

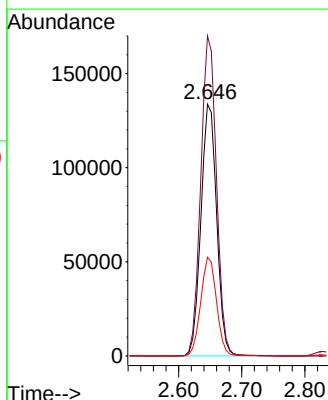
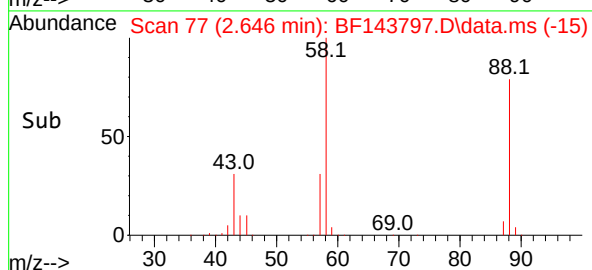
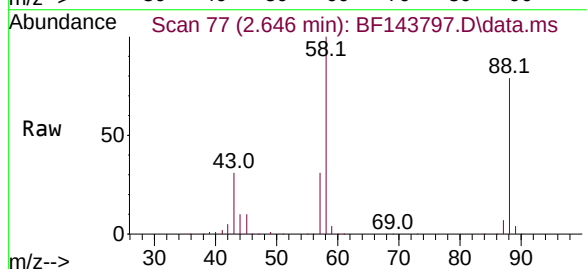
Manual Integrations  
APPROVED

Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025

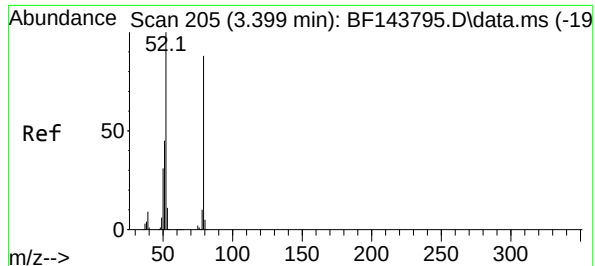


#2  
1,4-Dioxane  
Concen: 59.300 ng  
RT: 2.646 min Scan# 77  
Delta R.T. 0.012 min  
Lab File: BF143797.D  
Acq: 23 Sep 2025 14:58

Tgt Ion: 88 Resp: 231372  
Ion Ratio Lower Upper  
88 100  
58 126.7 99.4 149.2  
43 39.3 30.6 45.8







#3

Pyridine

Concen: 60.455 ng

RT: 3.416 min Scan# 20

Delta R.T. 0.018 min

Lab File: BF143797.D

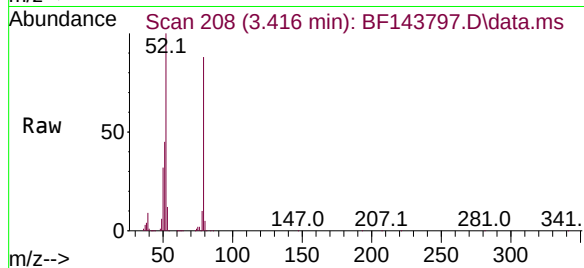
Acq: 23 Sep 2025 14:58

Instrument :

BNA\_F

ClientSampleId :

SSTDICC060



Tgt Ion: 79 Resp: 636709

Ion Ratio Lower Upper

79 100

52 114.1 90.5 135.7

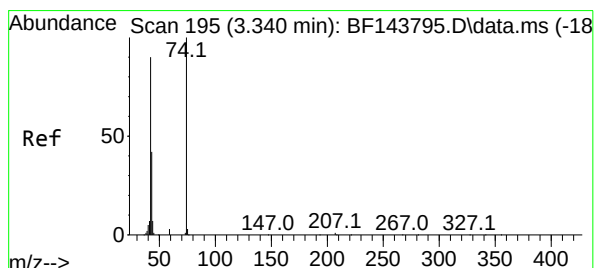
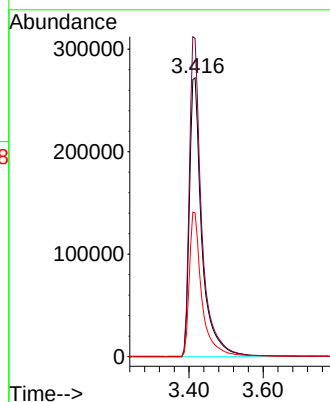
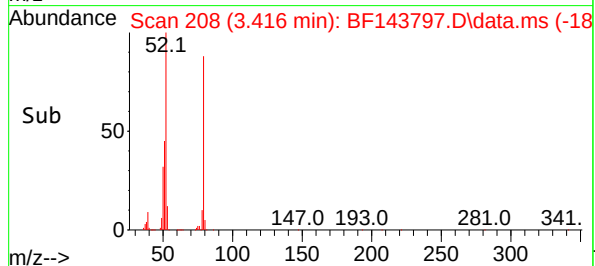
51 51.6 40.6 61.0

Manual Integrations

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Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#4

n-Nitrosodimethylamine

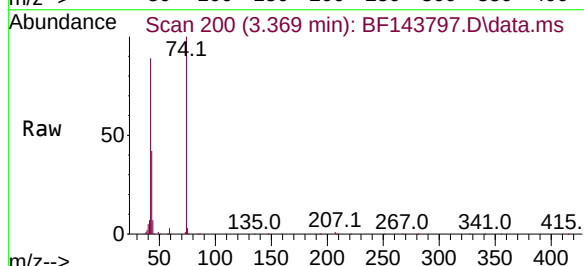
Concen: 61.507 ng

RT: 3.369 min Scan# 200

Delta R.T. 0.012 min

Lab File: BF143797.D

Acq: 23 Sep 2025 14:58



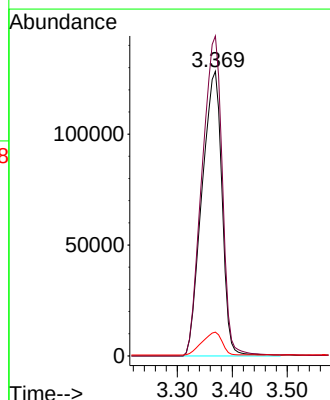
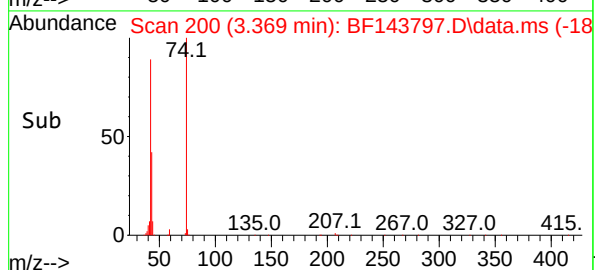
Tgt Ion: 42 Resp: 324819

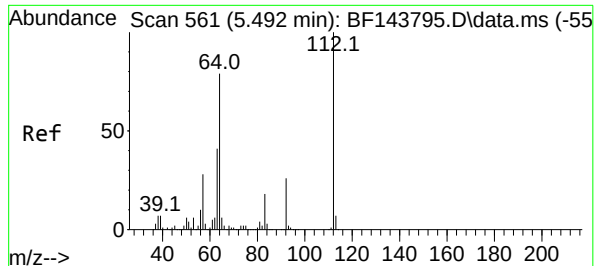
Ion Ratio Lower Upper

42 100

74 112.5 89.1 133.7

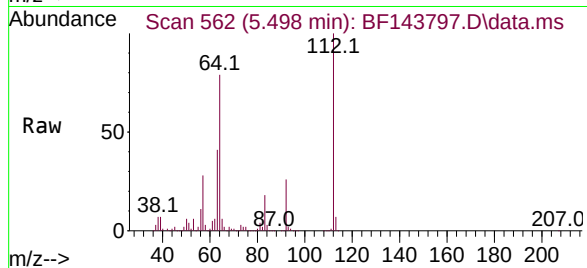
44 8.4 6.4 9.6





#5  
2-Fluorophenol  
Concen: 115.234 ng  
RT: 5.498 min Scan# 561  
Delta R.T. 0.000 min  
Lab File: BF143797.D  
Acq: 23 Sep 2025 14:58

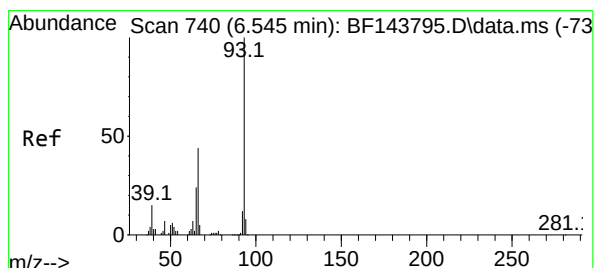
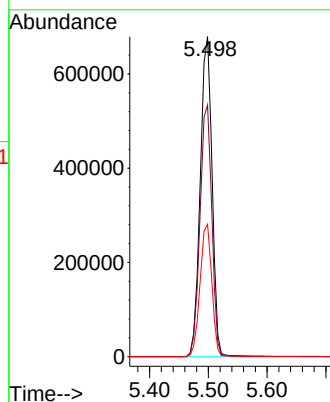
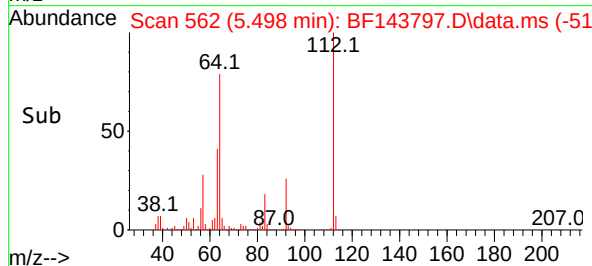
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC060



Tgt Ion: 112 Resp: 948307  
Ion Ratio Lower Upper  
112 100  
64 78.7 63.0 94.4  
63 41.3 32.6 49.0

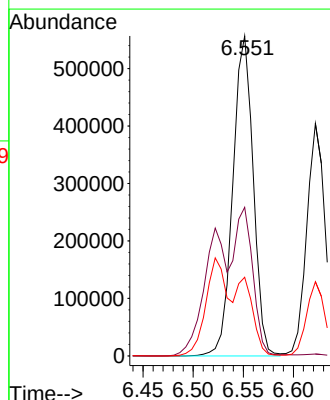
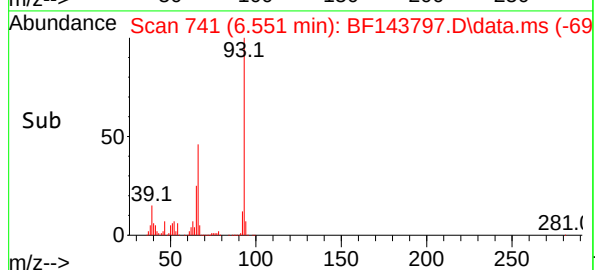
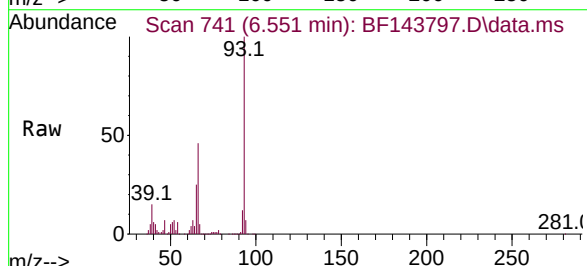
Manual Integrations  
APPROVED

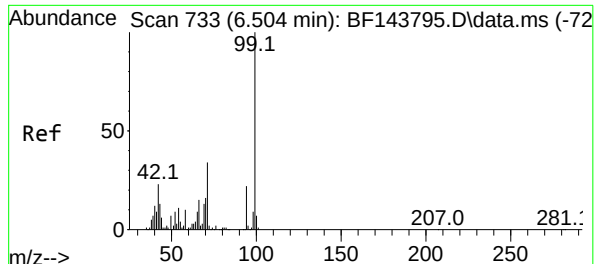
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#6  
Aniline  
Concen: 57.487 ng  
RT: 6.551 min Scan# 741  
Delta R.T. 0.000 min  
Lab File: BF143797.D  
Acq: 23 Sep 2025 14:58

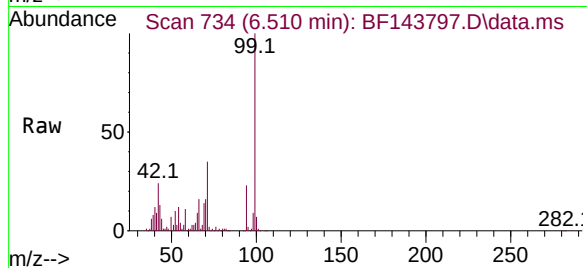
Tgt Ion: 93 Resp: 785861  
Ion Ratio Lower Upper  
93 100  
66 46.4 37.1 55.7  
65 24.6 19.4 29.0





#7  
Phenol-d6  
Concen: 112.196 ng  
RT: 6.510 min Scan# 734  
Delta R.T. 0.000 min  
Lab File: BF143797.D  
Acq: 23 Sep 2025 14:58

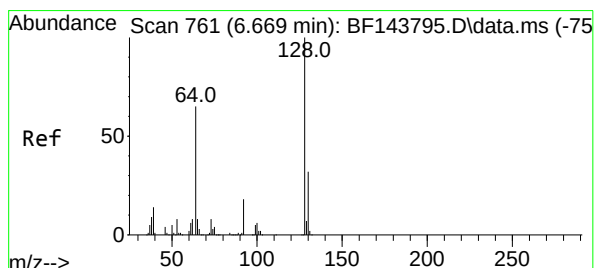
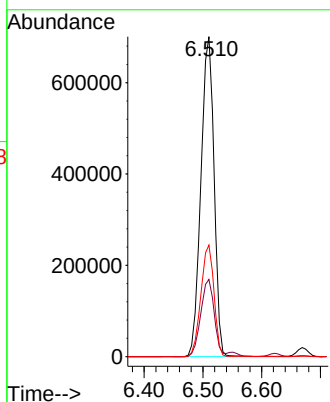
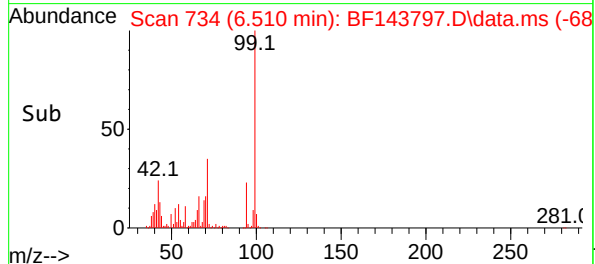
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC060



Tgt Ion: 99 Resp: 108957  
Ion Ratio Lower Upper  
99 100  
42 24.1 18.6 28.0  
71 34.9 27.0 40.4

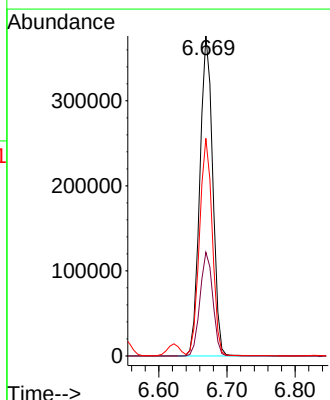
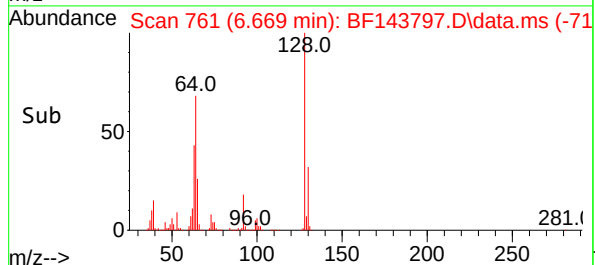
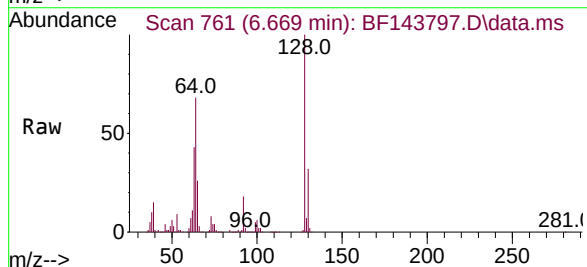
Manual Integrations  
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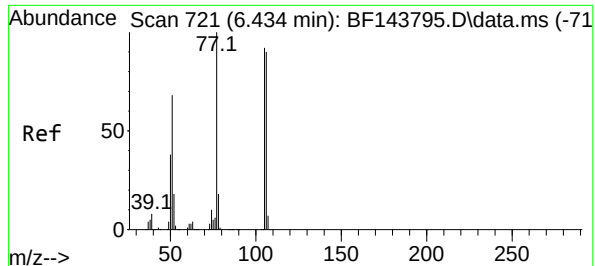
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#8  
2-Chlorophenol  
Concen: 59.248 ng  
RT: 6.669 min Scan# 761  
Delta R.T. 0.000 min  
Lab File: BF143797.D  
Acq: 23 Sep 2025 14:58

Tgt Ion:128 Resp: 494437  
Ion Ratio Lower Upper  
128 100  
130 32.4 12.2 52.2  
64 68.0 46.5 86.5





#9

Benzaldehyde

Concen: 74.093 ng

RT: 6.440 min Scan# 71

Delta R.T. 0.000 min

Lab File: BF143797.D

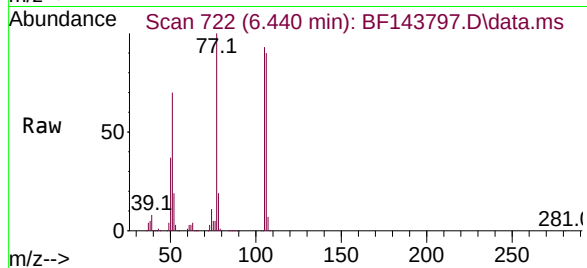
Acq: 23 Sep 2025 14:58

Instrument :

BNA\_F

ClientSampleId :

SSTDICC060



Tgt Ion: 77 Resp: 611123

Ion Ratio Lower Upper

77 100

105 93.3 71.8 111.8

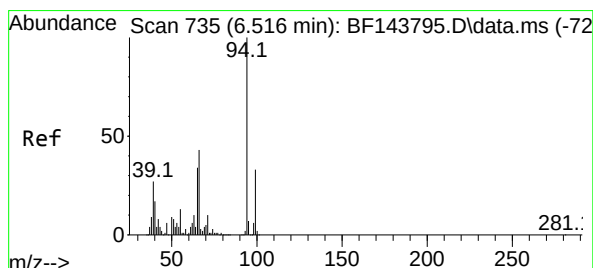
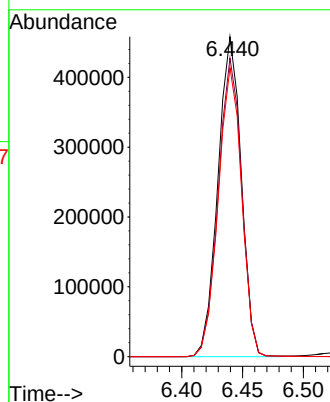
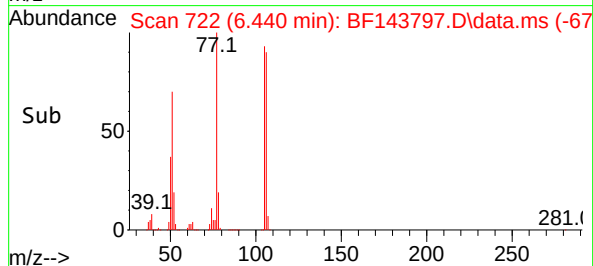
106 90.3 69.8 109.8

Manual Integrations

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Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#10

Phenol

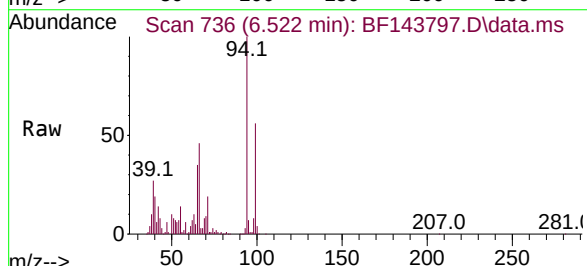
Concen: 58.860 ng m

RT: 6.522 min Scan# 736

Delta R.T. -0.006 min

Lab File: BF143797.D

Acq: 23 Sep 2025 14:58



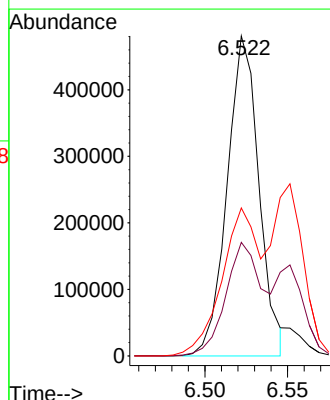
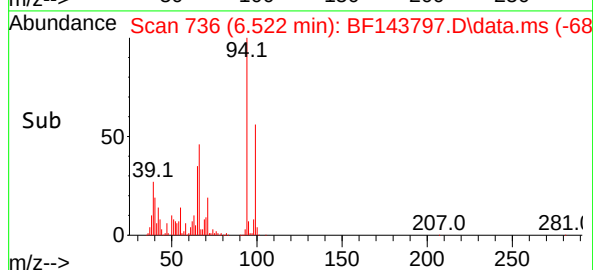
Tgt Ion: 94 Resp: 644396

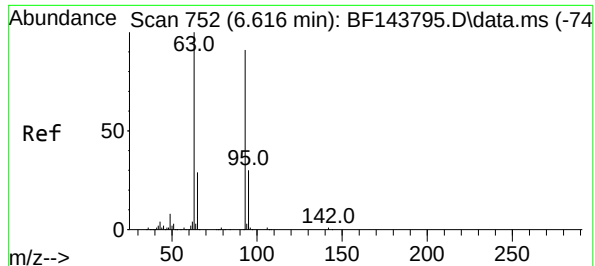
Ion Ratio Lower Upper

94 100

65 35.5 14.2 54.2

66 46.2 24.1 64.1





#11

bis(2-Chloroethyl)ether

Concen: 58.819 ng

RT: 6.622 min Scan# 752

Delta R.T. 0.000 min

Lab File: BF143797.D

Acq: 23 Sep 2025 14:58

Instrument :

BNA\_F

ClientSampleId :

SSTDICC060

Tgt Ion: 93 Resp: 504773

Ion Ratio Lower Upper

93 100

63 110.4 89.2 129.2

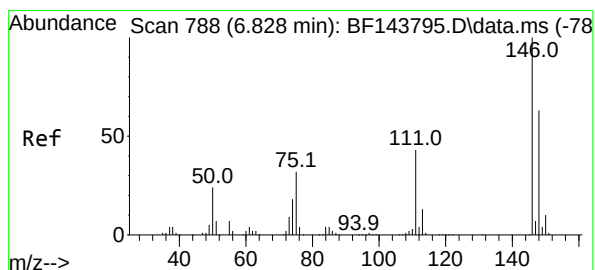
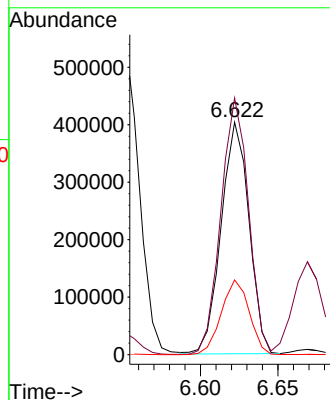
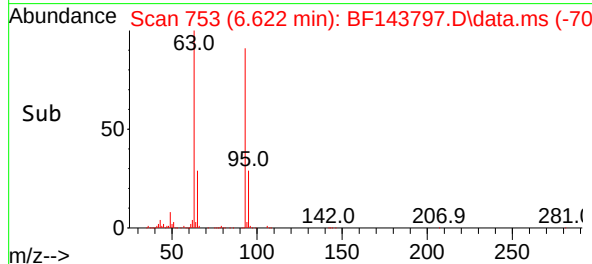
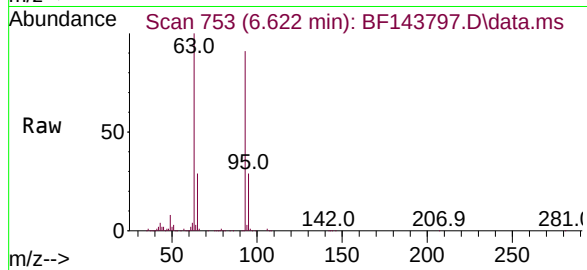
95 32.1 12.9 52.9

Manual Integrations

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Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#12

1,3-Dichlorobenzene

Concen: 56.789 ng

RT: 6.828 min Scan# 788

Delta R.T. 0.000 min

Lab File: BF143797.D

Acq: 23 Sep 2025 14:58

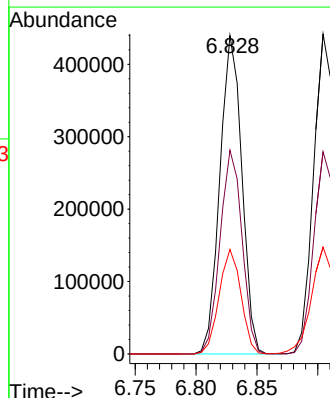
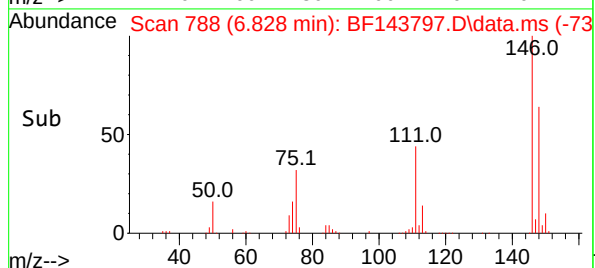
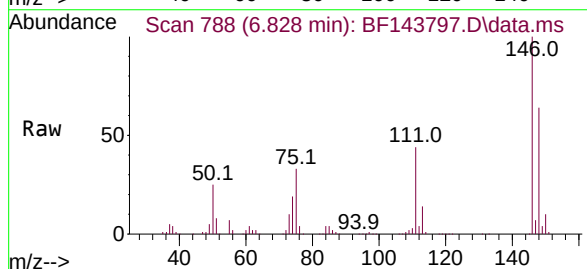
Tgt Ion:146 Resp: 550246

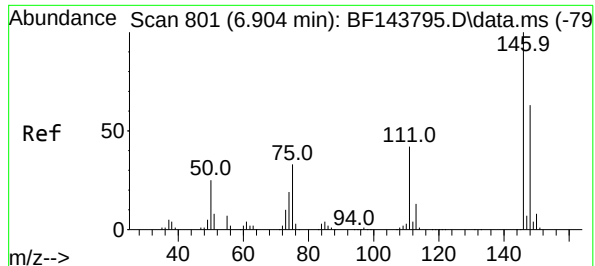
Ion Ratio Lower Upper

146 100

148 64.0 50.4 75.6

75 32.8 25.6 38.4





#13

1,4-Dichlorobenzene

Concen: 56.685 ng

RT: 6.904 min Scan# 801

Delta R.T. 0.000 min

Lab File: BF143797.D

Acq: 23 Sep 2025 14:58

Instrument :

BNA\_F

ClientSampleId :

SSTDICC060

Tgt Ion:146 Resp: 54811

Ion Ratio Lower Upper

146 100

148 63.2 50.7 76.1

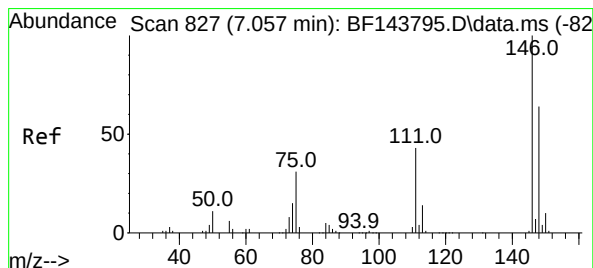
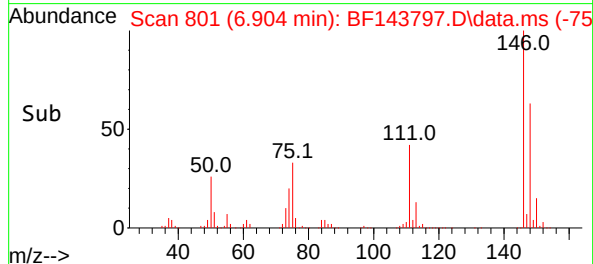
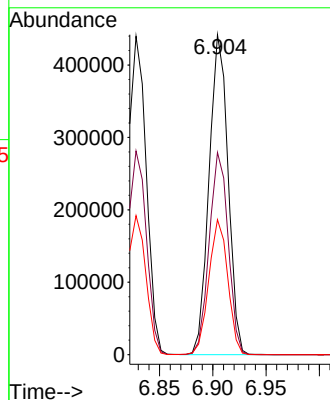
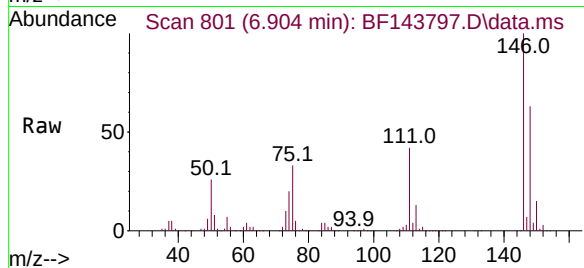
111 42.2 33.4 50.2

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#14

1,2-Dichlorobenzene

Concen: 56.809 ng

RT: 7.057 min Scan# 827

Delta R.T. 0.000 min

Lab File: BF143797.D

Acq: 23 Sep 2025 14:58

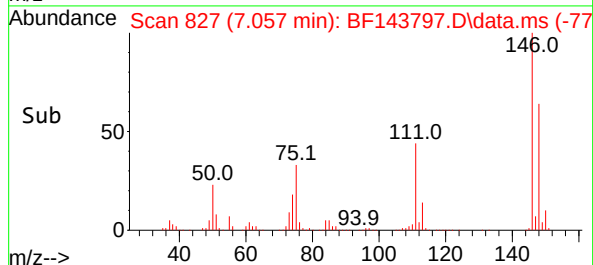
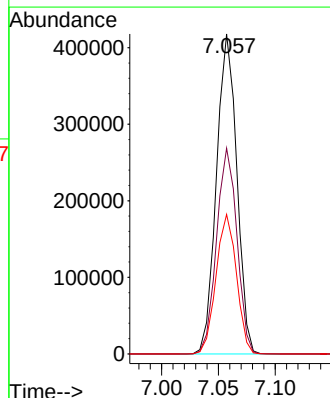
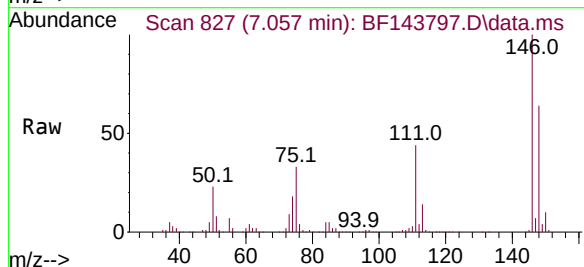
Tgt Ion:146 Resp: 520261

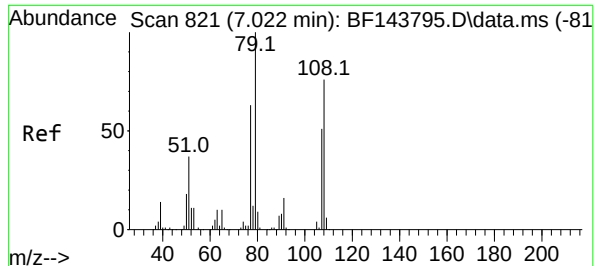
Ion Ratio Lower Upper

146 100

148 64.3 51.1 76.7

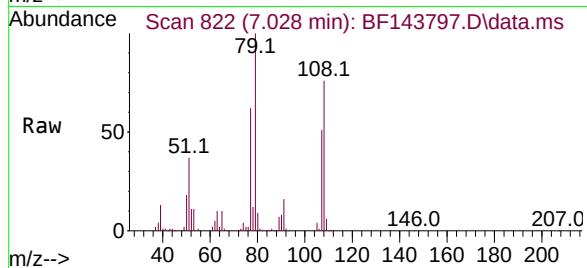
111 43.6 34.3 51.5





#15  
Benzyl Alcohol  
Concen: 60.843 ng  
RT: 7.028 min Scan# 821  
Delta R.T. -0.000 min  
Lab File: BF143797.D  
Acq: 23 Sep 2025 14:58

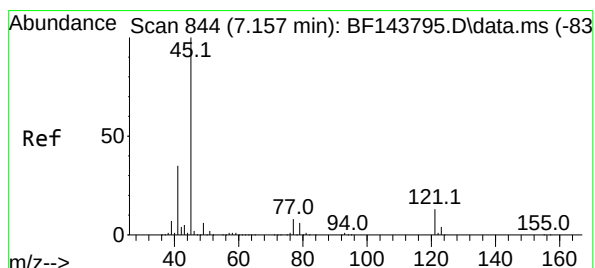
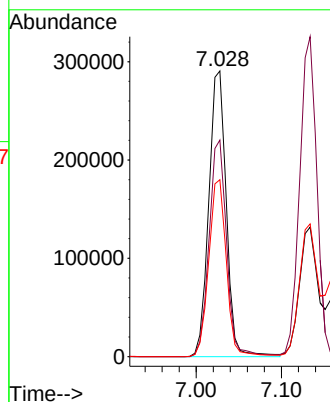
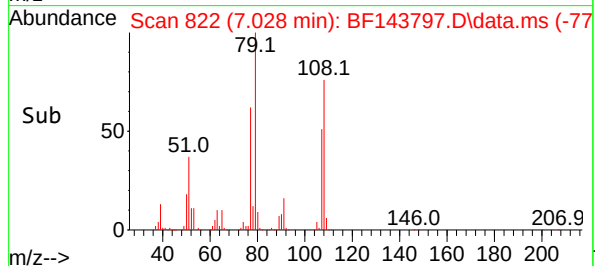
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC060



Tgt Ion: 79 Resp: 414075  
Ion Ratio Lower Upper  
79 100  
108 75.8 60.5 90.7  
77 61.9 50.3 75.5

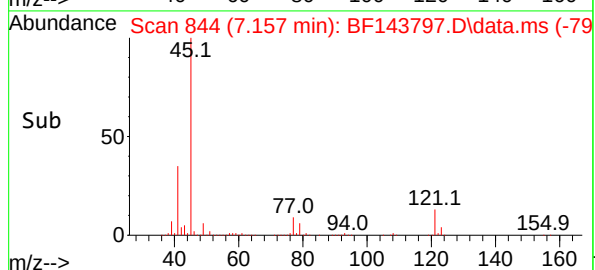
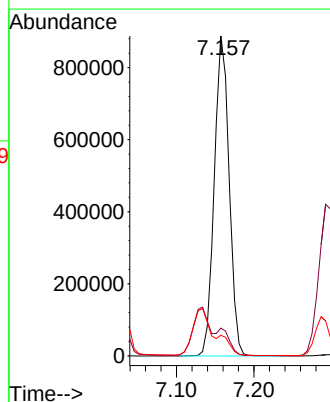
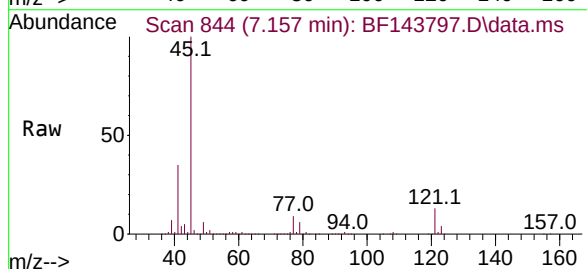
Manual Integrations  
APPROVED

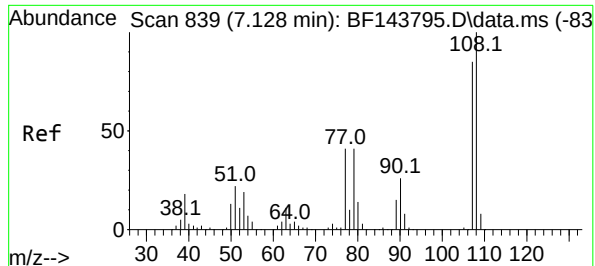
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#16  
2,2'-oxybis(1-Chloropropane)  
Concen: 57.906 ng  
RT: 7.157 min Scan# 844  
Delta R.T. 0.000 min  
Lab File: BF143797.D  
Acq: 23 Sep 2025 14:58

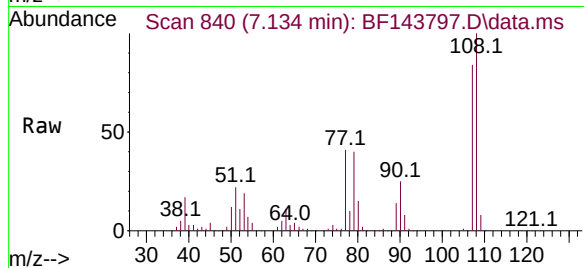
Tgt Ion: 45 Resp: 1178357  
Ion Ratio Lower Upper  
45 100  
77 8.7 0.0 28.5  
79 6.4 0.0 26.3





#17  
2-Methylphenol  
Concen: 58.990 ng  
RT: 7.134 min Scan# 840  
Delta R.T. -0.000 min  
Lab File: BF143797.D  
Acq: 23 Sep 2025 14:58

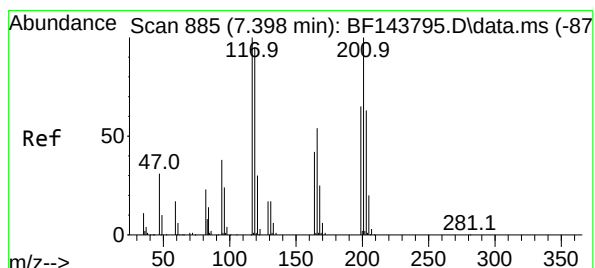
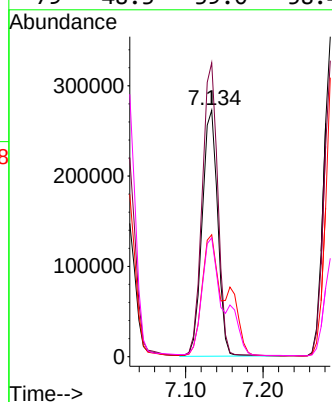
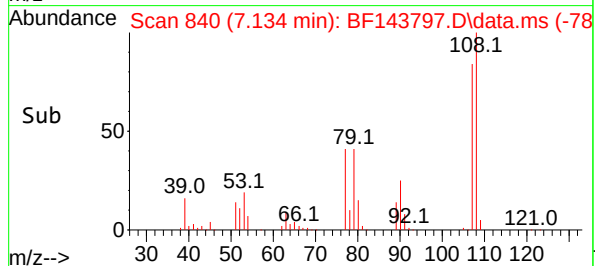
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC060



Tgt Ion:107 Resp: 381125  
Ion Ratio Lower Upper  
107 100  
108 119.3 94.2 141.4  
77 49.5 38.6 58.0  
79 48.3 39.0 58.4

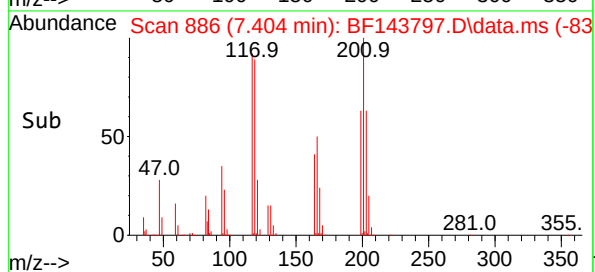
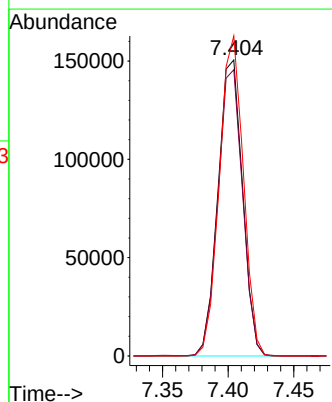
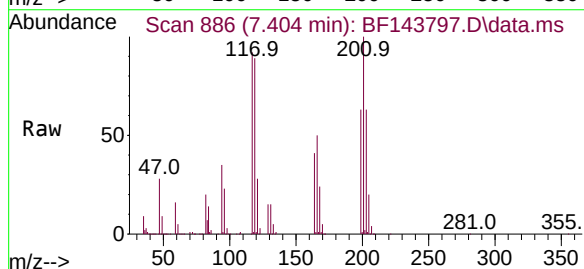
Manual Integrations  
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Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025

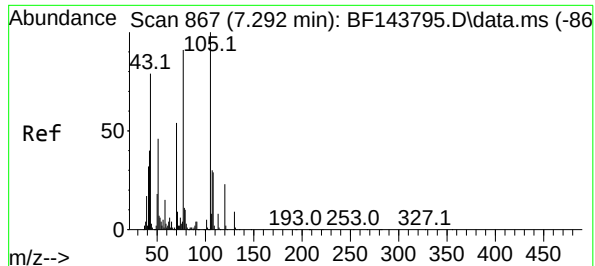


#18  
Hexachloroethane  
Concen: 57.629 ng  
RT: 7.404 min Scan# 886  
Delta R.T. 0.000 min  
Lab File: BF143797.D  
Acq: 23 Sep 2025 14:58

Tgt Ion:117 Resp: 195969  
Ion Ratio Lower Upper  
117 100  
119 96.7 76.2 114.2  
201 108.2 79.7 119.5







#19

n-Nitroso-di-n-propylamine

Concen: 57.020 ng

RT: 7.304 min Scan# 869

Delta R.T. 0.000 min

Lab File: BF143797.D

Acq: 23 Sep 2025 14:58

Instrument :

BNA\_F

ClientSampleId :

SSTDICC060

Tgt Ion: 70 Resp: 345358

Ion Ratio Lower Upper

70 100

42 74.0 59.4 89.0

101 8.6 7.1 10.7

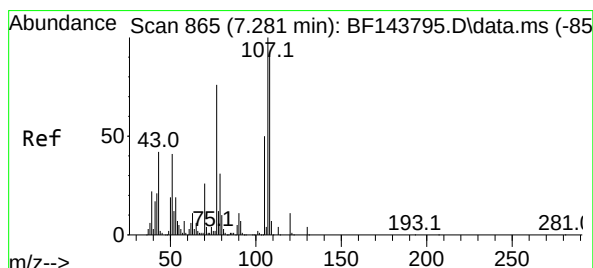
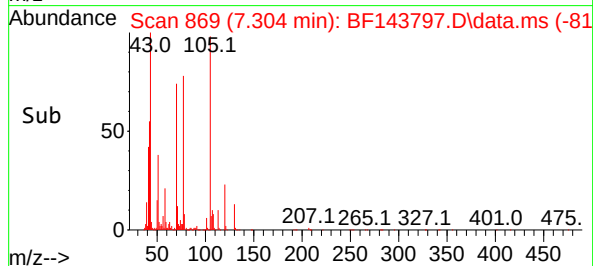
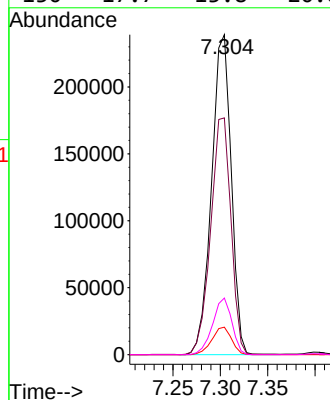
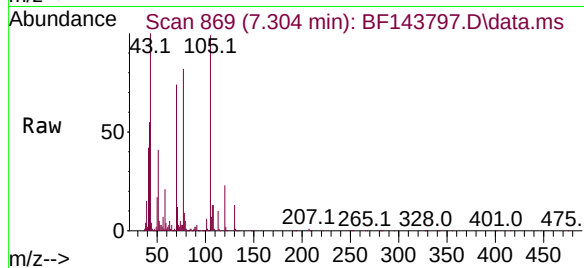
130 17.7 13.8 20.8

Manual Integrations

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Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#20

3+4-Methylphenols

Concen: 57.806 ng

RT: 7.287 min Scan# 866

Delta R.T. 0.000 min

Lab File: BF143797.D

Acq: 23 Sep 2025 14:58

Tgt Ion:107 Resp: 454811

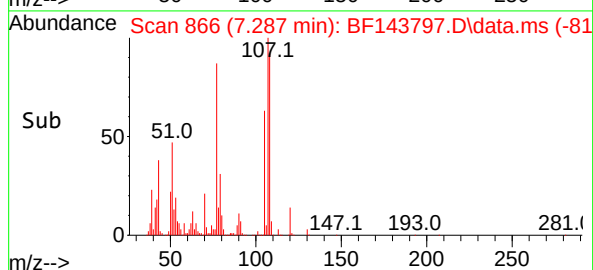
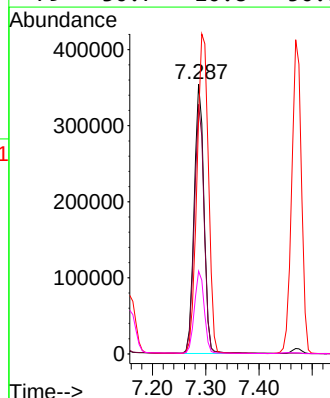
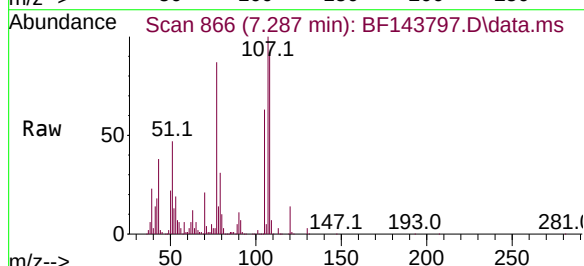
Ion Ratio Lower Upper

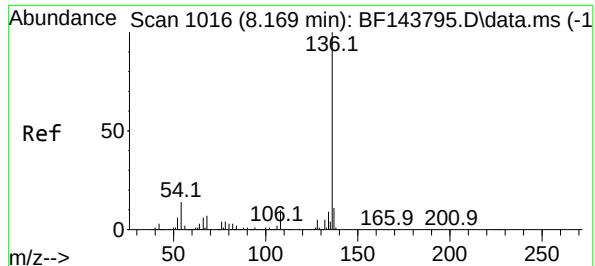
107 100

108 92.5 72.5 112.5

77 87.2 56.2 96.2

79 30.7 10.8 50.8





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.169 min Scan# 1016

Delta R.T. -0.000 min

Lab File: BF143797.D

Acq: 23 Sep 2025 14:58

Instrument :

BNA\_F

ClientSampleId :

SSTDICC060

Tgt Ion:136 Resp: 482940

Ion Ratio Lower Upper

136 100

137 11.2 9.0 13.4

54 14.4 11.2 16.8

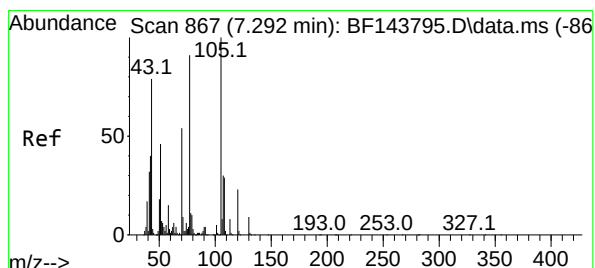
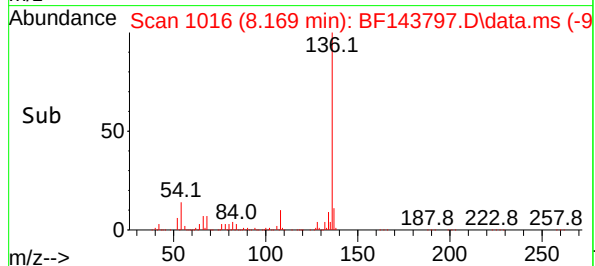
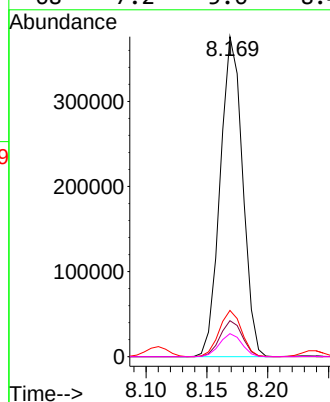
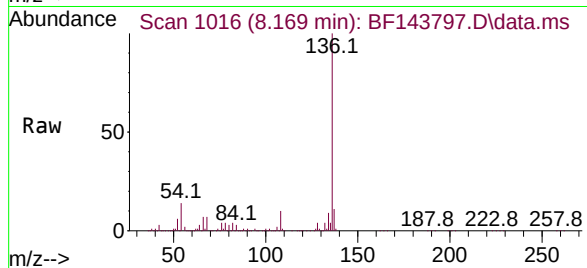
68 7.2 5.6 8.4

Manual Integrations

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Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#22

Acetophenone

Concen: 55.128 ng

RT: 7.298 min Scan# 868

Delta R.T. 0.000 min

Lab File: BF143797.D

Acq: 23 Sep 2025 14:58

Tgt Ion:105 Resp: 584748

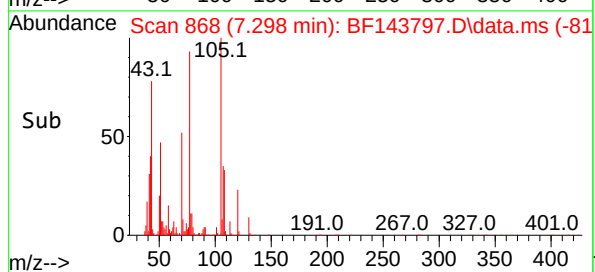
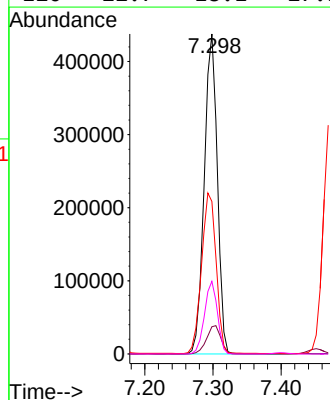
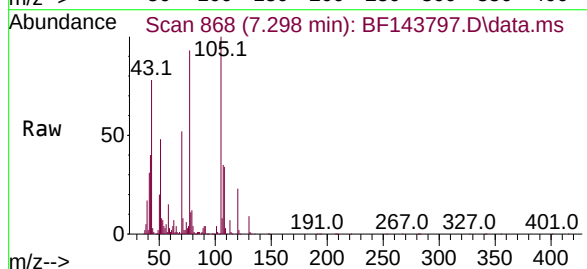
Ion Ratio Lower Upper

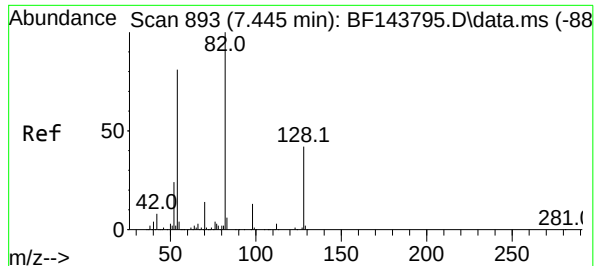
105 100

71 8.5 7.0 10.4

51 47.6 36.6 55.0

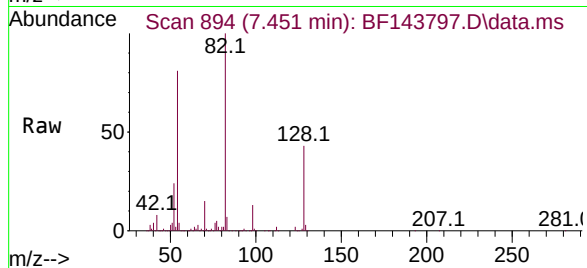
120 22.7 18.1 27.1





#23  
Nitrobenzene-d5  
Concen: 124.628 ng  
RT: 7.451 min Scan# 894  
Delta R.T. 0.000 min  
Lab File: BF143797.D  
Acq: 23 Sep 2025 14:58

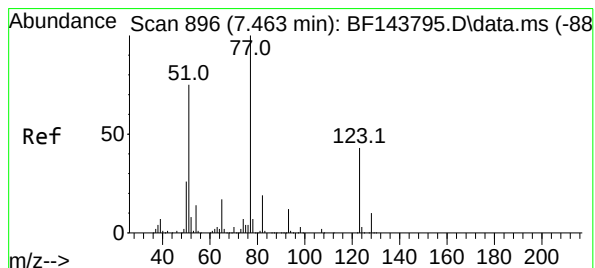
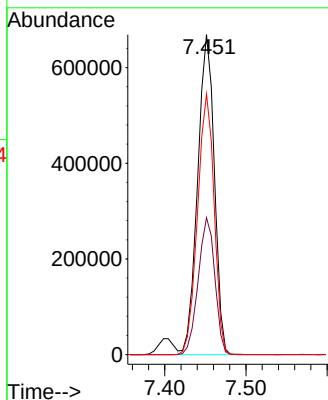
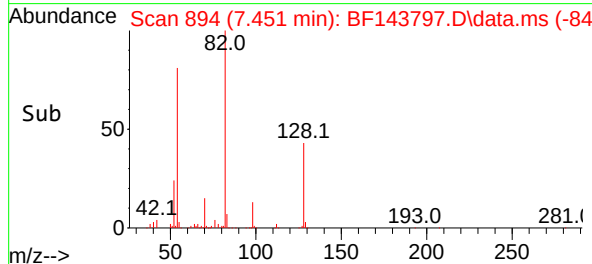
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC060



Tgt Ion: 82 Resp: 956391  
Ion Ratio Lower Upper  
82 100  
128 42.8 33.3 49.9  
54 81.4 64.2 96.4

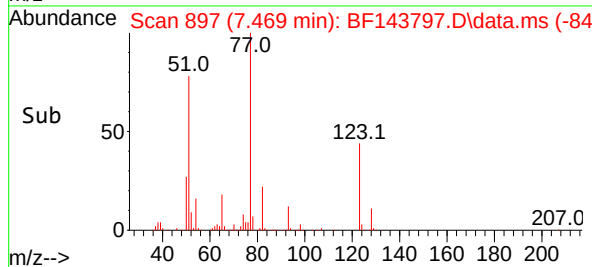
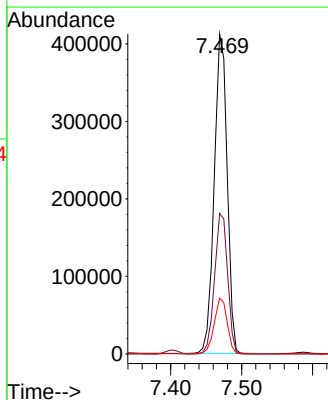
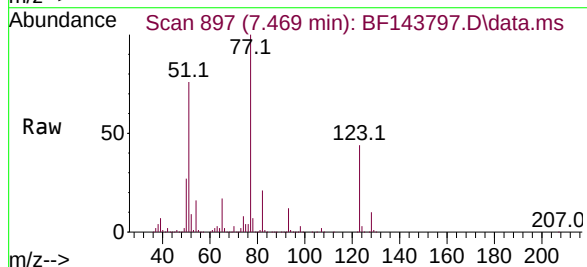
Manual Integrations  
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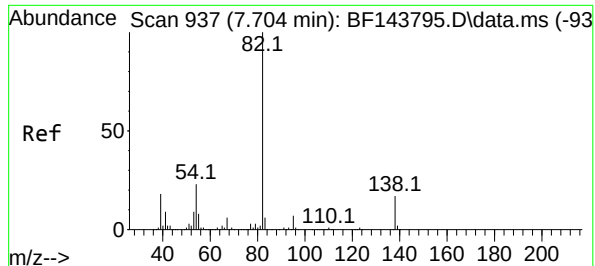
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#24  
Nitrobenzene  
Concen: 59.844 ng  
RT: 7.469 min Scan# 897  
Delta R.T. -0.006 min  
Lab File: BF143797.D  
Acq: 23 Sep 2025 14:58

Tgt Ion: 77 Resp: 523344  
Ion Ratio Lower Upper  
77 100  
123 43.9 34.0 51.0  
65 17.4 13.5 20.3





#25

Isophorone

Concen: 59.707 ng

RT: 7.710 min Scan# 938

Delta R.T. 0.000 min

Lab File: BF143797.D

Acq: 23 Sep 2025 14:58

Instrument :

BNA\_F

ClientSampleId :

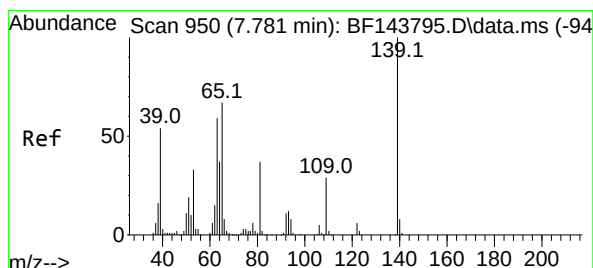
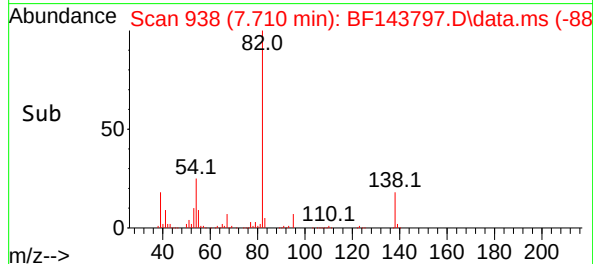
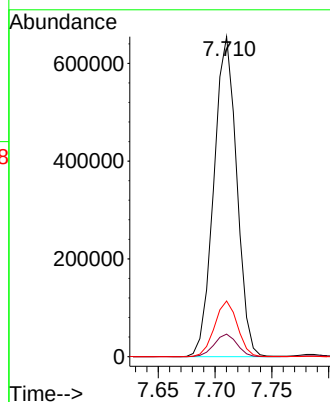
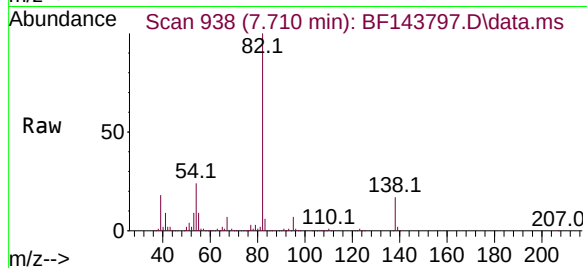
SSTDICC060

Tgt Ion: 82 Resp: 917958  
Ion Ratio Lower Upper  
82 100  
95 7.0 5.4 8.2  
138 17.4 13.7 20.5

Manual Integrations

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Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#26

2-Nitrophenol

Concen: 62.050 ng

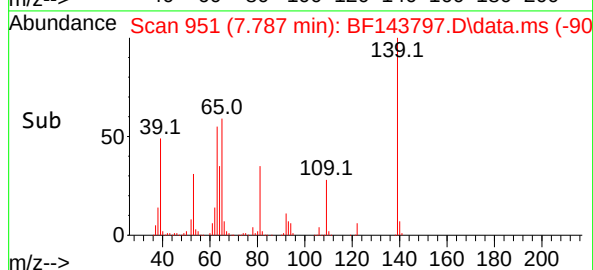
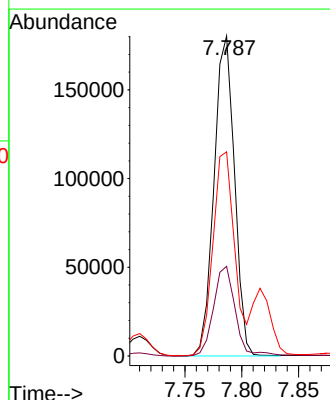
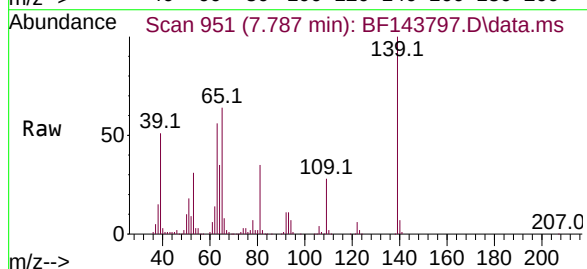
RT: 7.787 min Scan# 951

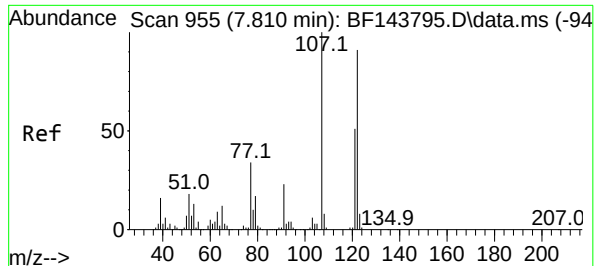
Delta R.T. 0.001 min

Lab File: BF143797.D

Acq: 23 Sep 2025 14:58

Tgt Ion:139 Resp: 225802  
Ion Ratio Lower Upper  
139 100  
109 28.0 23.3 34.9  
65 63.8 53.8 80.6





#27

2,4-Dimethylphenol

Concen: 60.209 ng

RT: 7.816 min Scan# 955

Delta R.T. 0.000 min

Lab File: BF143797.D

Acq: 23 Sep 2025 14:58

Instrument :

BNA\_F

ClientSampleId :

SSTDICC060

Tgt Ion:122 Resp: 413744

Ion Ratio Lower Upper

122 100

107 110.2 87.5 131.3

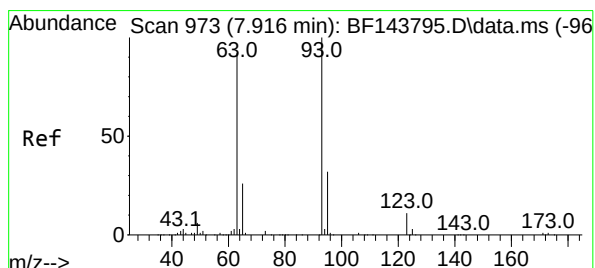
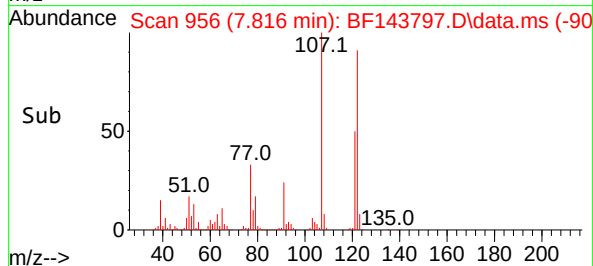
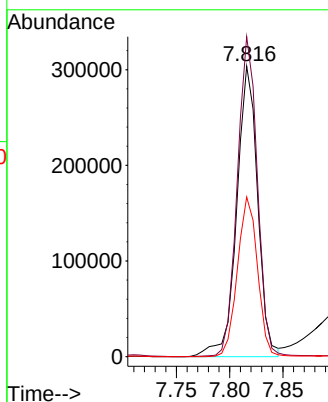
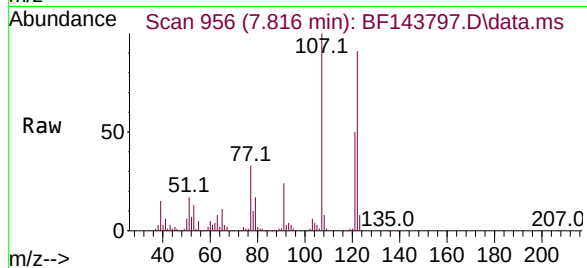
121 55.0 44.2 66.4

Manual Integrations

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Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#28

bis(2-Chloroethoxy)methane

Concen: 56.813 ng

RT: 7.916 min Scan# 973

Delta R.T. 0.000 min

Lab File: BF143797.D

Acq: 23 Sep 2025 14:58

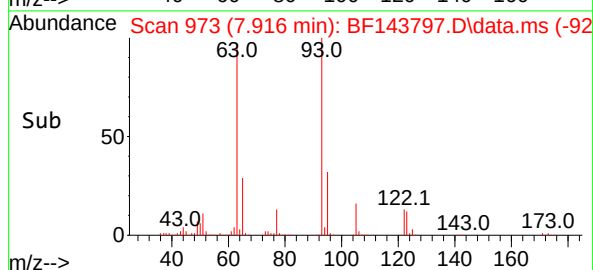
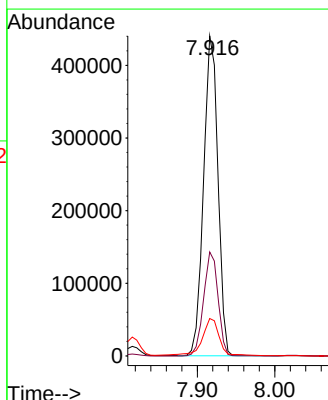
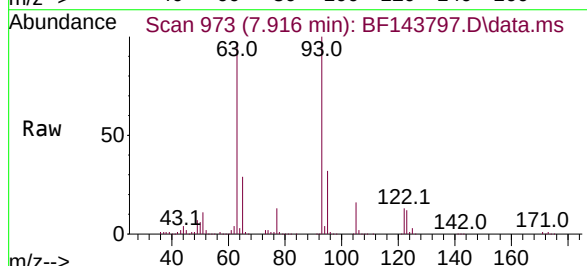
Tgt Ion: 93 Resp: 567489

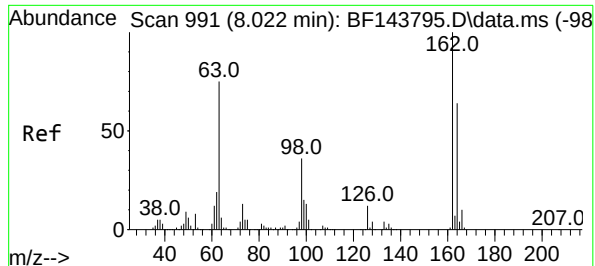
Ion Ratio Lower Upper

93 100

95 32.5 25.8 38.8

123 11.7 8.8 13.2





#29

2,4-Dichlorophenol

Concen: 59.550 ng

RT: 8.022 min Scan# 991

Delta R.T. 0.000 min

Lab File: BF143797.D

Acq: 23 Sep 2025 14:58

Instrument :

BNA\_F

ClientSampleId :

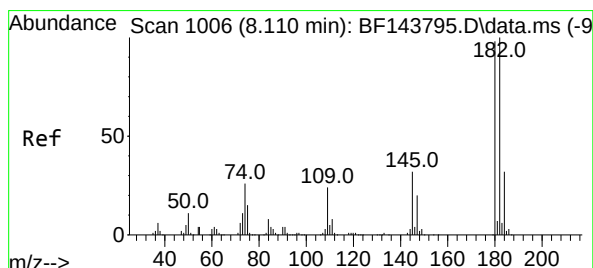
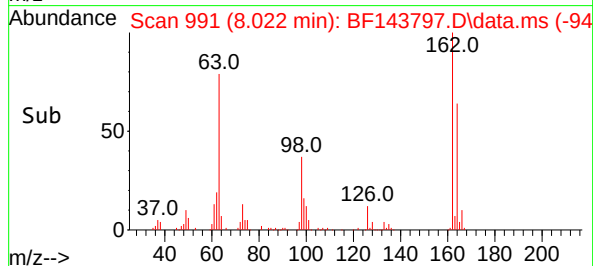
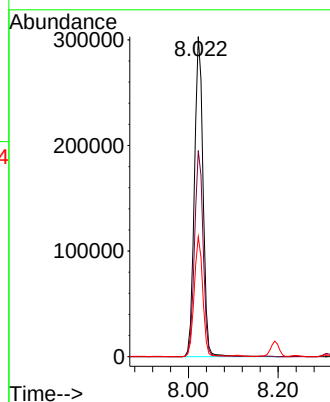
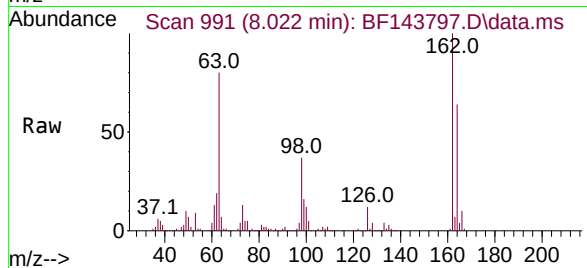
SSTDICC060

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 162   | Resp: | 402655 |
| Ion Ratio | Lower | Upper |        |
| 162       | 100   |       |        |
| 164       | 64.4  | 44.1  | 84.1   |
| 98        | 37.4  | 15.8  | 55.8   |

Manual Integrations

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Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#30

1,2,4-Trichlorobenzene

Concen: 57.579 ng

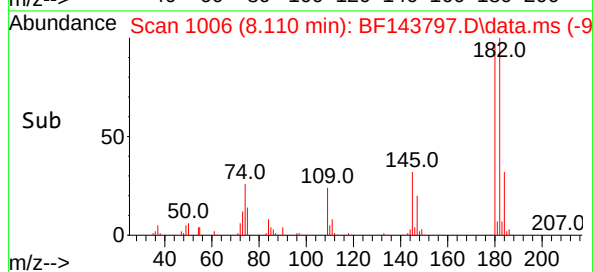
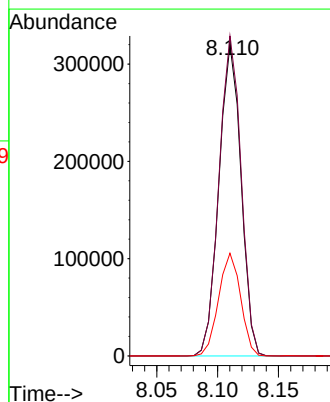
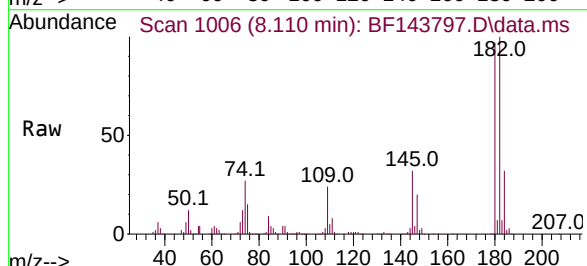
RT: 8.110 min Scan# 1006

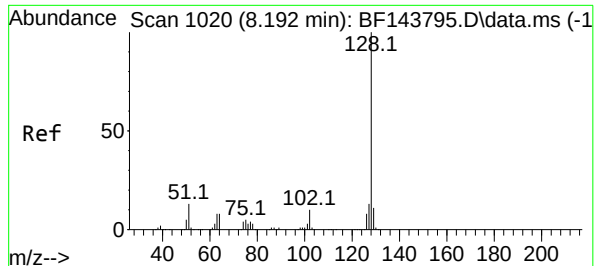
Delta R.T. 0.000 min

Lab File: BF143797.D

Acq: 23 Sep 2025 14:58

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 180   | Resp: | 404040 |
| Ion Ratio | Lower | Upper |        |
| 180       | 100   |       |        |
| 182       | 102.7 | 82.0  | 123.0  |
| 145       | 33.0  | 25.9  | 38.9   |





#31

Naphthalene

Concen: 55.678 ng

RT: 8.192 min Scan# 1020

Delta R.T. 0.000 min

Lab File: BF143797.D

Acq: 23 Sep 2025 14:58

Instrument :

BNA\_F

ClientSampleId :

SSTDICC060

Tgt Ion:128 Resp: 1287223

Ion Ratio Lower Upper

128 100

129 11.3 8.8 13.2

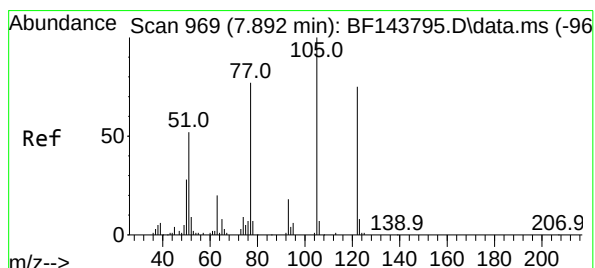
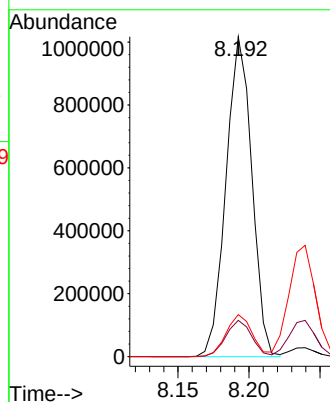
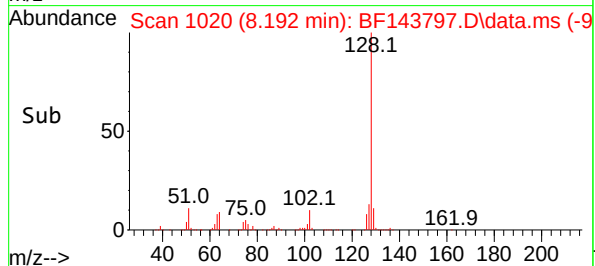
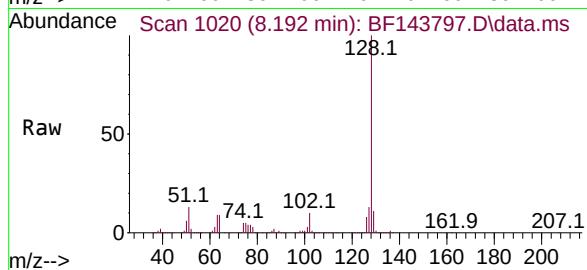
127 13.1 10.2 15.4

Manual Integrations

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Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#32

Benzoic acid

Concen: 69.608 ng

RT: 7.916 min Scan# 973

Delta R.T. -0.006 min

Lab File: BF143797.D

Acq: 23 Sep 2025 14:58

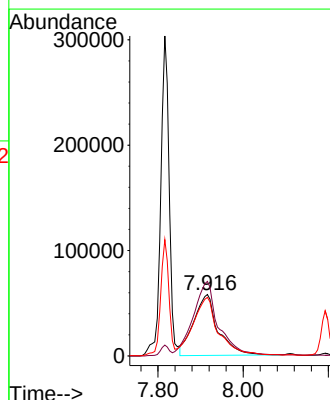
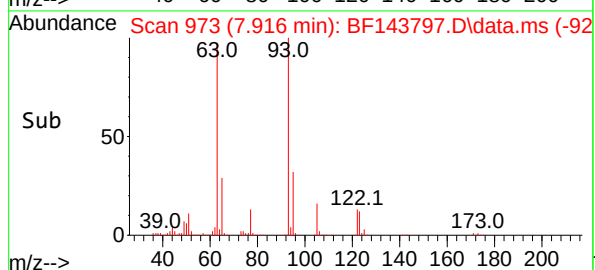
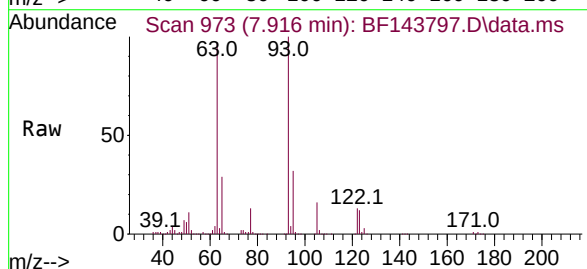
Tgt Ion:122 Resp: 230784

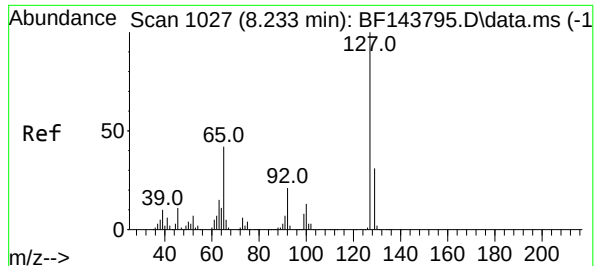
Ion Ratio Lower Upper

122 100

105 121.3 103.7 143.7

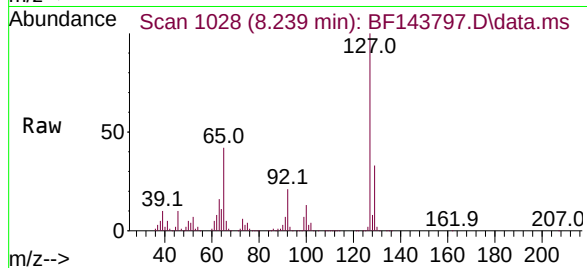
77 95.3 78.8 118.8





#33  
4-Chloroaniline  
Concen: 57.512 ng  
RT: 8.239 min Scan# 1027  
Delta R.T. 0.000 min  
Lab File: BF143797.D  
Acq: 23 Sep 2025 14:58

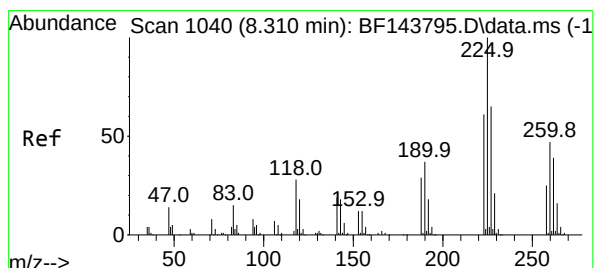
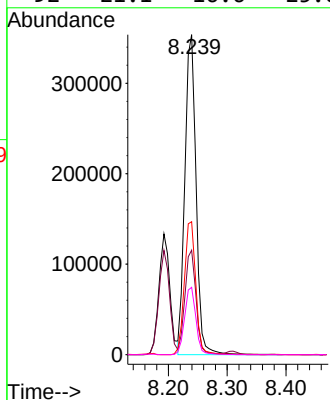
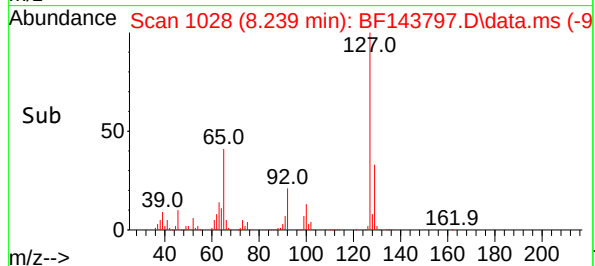
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC060



Tgt Ion:127 Resp: 467252  
Ion Ratio Lower Upper  
127 100  
129 32.6 25.4 38.2  
65 41.5 33.4 50.2  
92 21.1 16.6 25.0

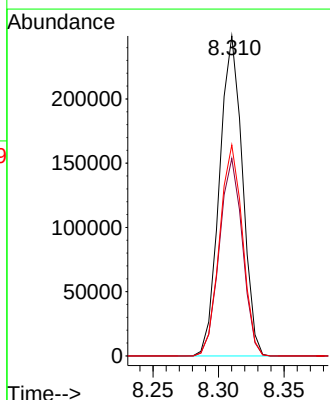
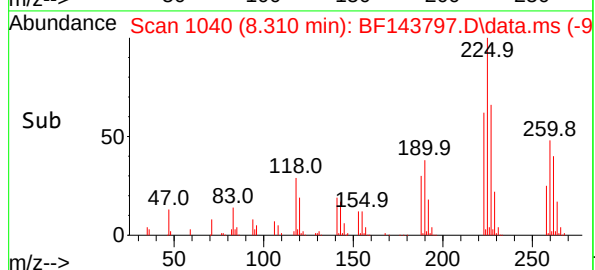
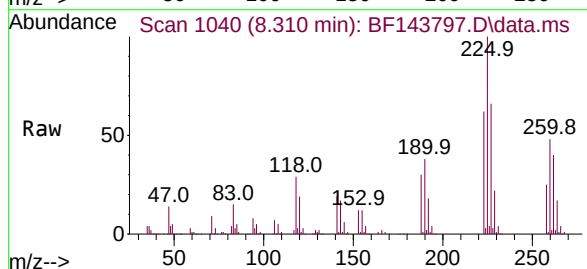
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Supervised By :Jagrut Upadhyay 09/24/2025

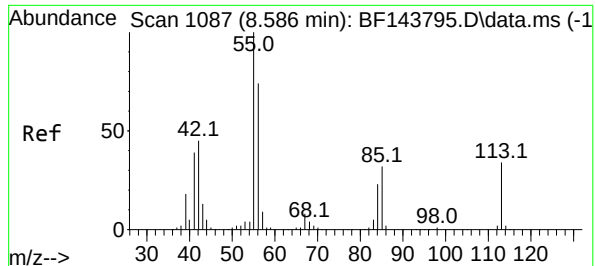


#34  
Hexachlorobutadiene  
Concen: 58.093 ng  
RT: 8.310 min Scan# 1040  
Delta R.T. 0.000 min  
Lab File: BF143797.D  
Acq: 23 Sep 2025 14:58

Tgt Ion:225 Resp: 303886  
Ion Ratio Lower Upper  
225 100  
223 61.7 48.6 72.8  
227 65.9 51.9 77.9

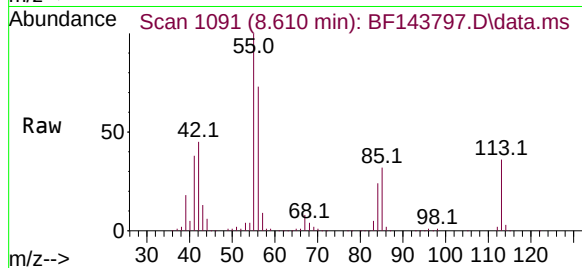






#35  
Caprolactam  
Concen: 63.887 ng  
RT: 8.610 min Scan# 1091  
Delta R.T. 0.000 min  
Lab File: BF143797.D  
Acq: 23 Sep 2025 14:58

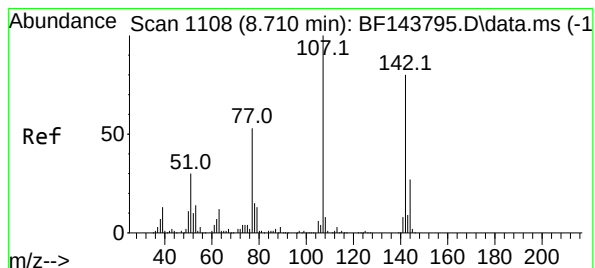
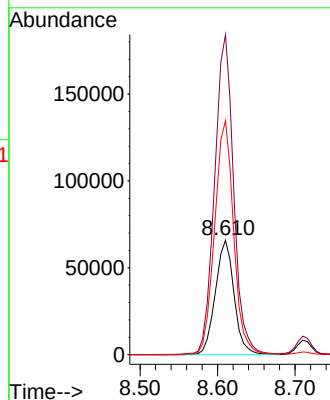
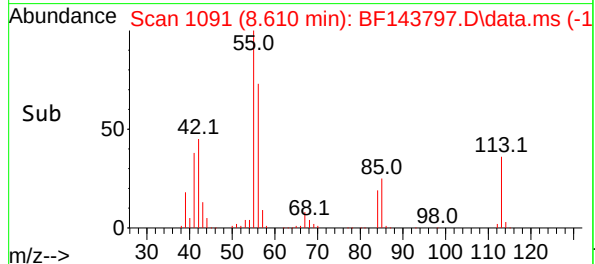
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC060



Tgt Ion:113 Resp: 110413  
Ion Ratio Lower Upper  
113 100  
55 279.9 271.7 311.7  
56 204.7 194.5 234.5

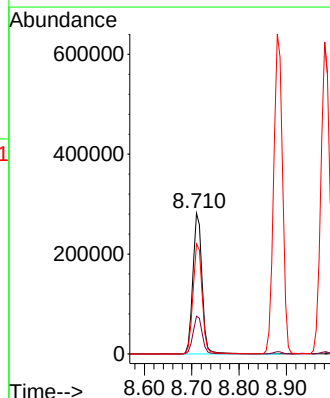
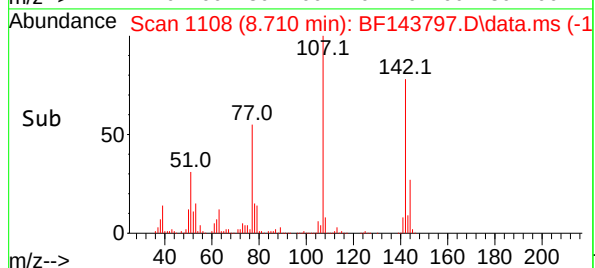
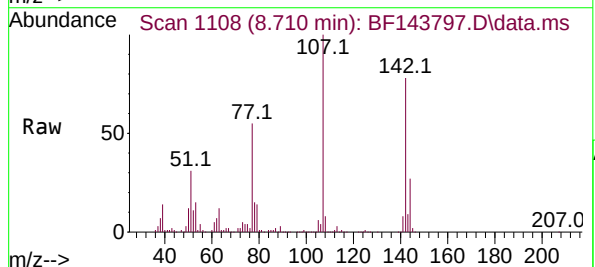
Manual Integrations  
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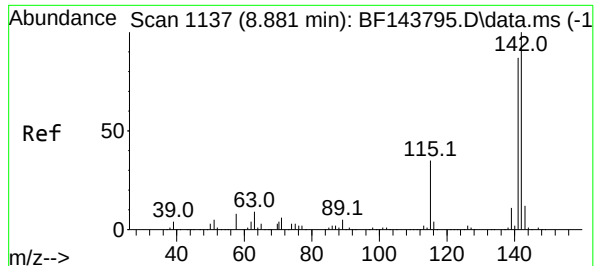
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#36  
4-Chloro-3-methylphenol  
Concen: 59.859 ng  
RT: 8.710 min Scan# 1108  
Delta R.T. 0.000 min  
Lab File: BF143797.D  
Acq: 23 Sep 2025 14:58

Tgt Ion:107 Resp: 379597  
Ion Ratio Lower Upper  
107 100  
144 26.7 21.8 32.8  
142 78.1 63.6 95.4





#37

2-Methylnaphthalene

Concen: 56.174 ng

RT: 8.881 min Scan# 1137

Delta R.T. 0.000 min

Lab File: BF143797.D

Acq: 23 Sep 2025 14:58

Instrument :

BNA\_F

ClientSampleId :

SSTDICC060

Tgt Ion:142 Resp: 828108

Ion Ratio Lower Upper

142 100

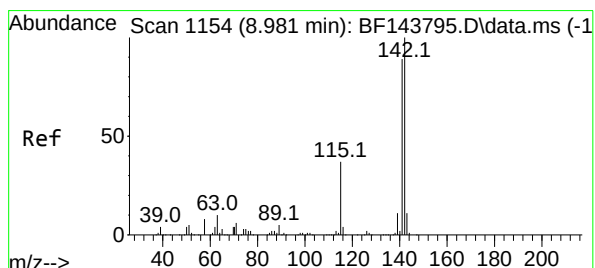
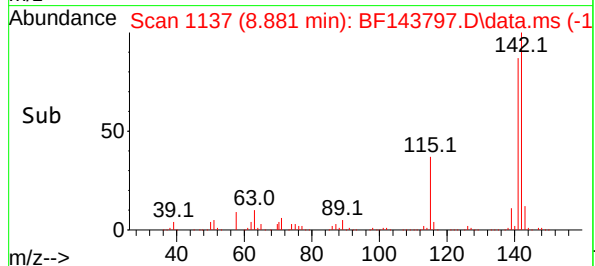
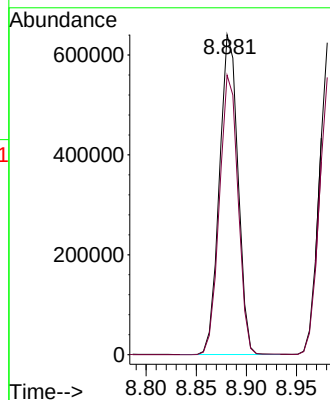
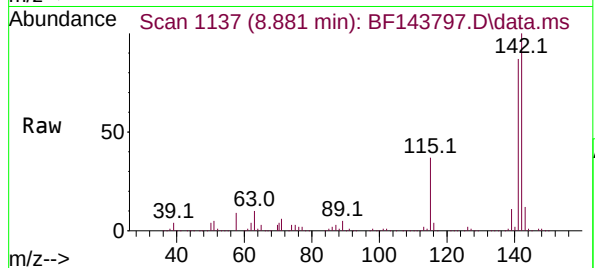
141 87.3 69.4 104.0

Manual Integrations

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Supervised By :Jagrut Upadhyay 09/24/2025



#38

1-Methylnaphthalene

Concen: 56.428 ng

RT: 8.981 min Scan# 1154

Delta R.T. 0.000 min

Lab File: BF143797.D

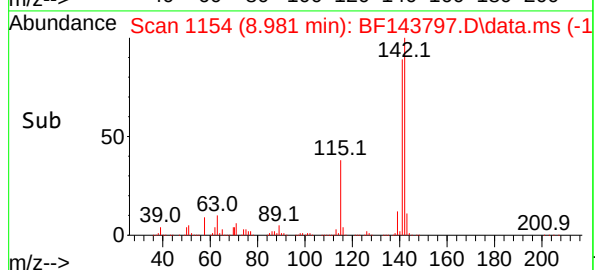
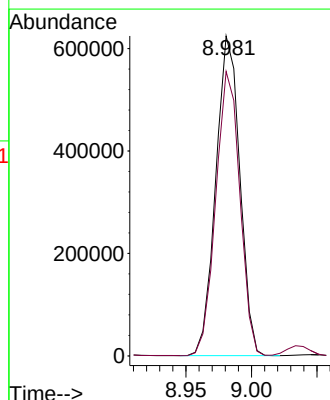
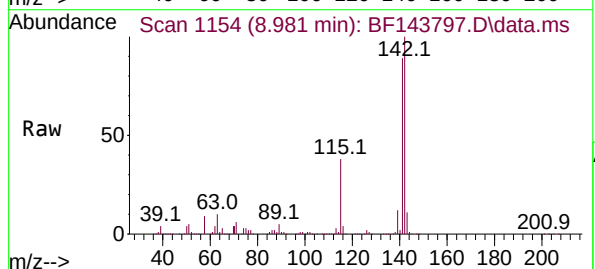
Acq: 23 Sep 2025 14:58

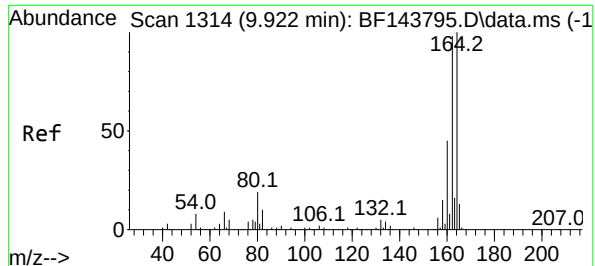
Tgt Ion:142 Resp: 796215

Ion Ratio Lower Upper

142 100

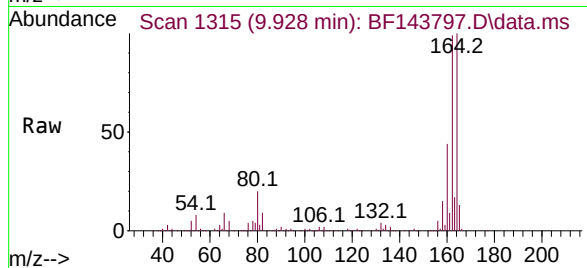
141 88.9 71.1 106.7





#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.928 min Scan# 1314  
Delta R.T. -0.000 min  
Lab File: BF143797.D  
Acq: 23 Sep 2025 14:58

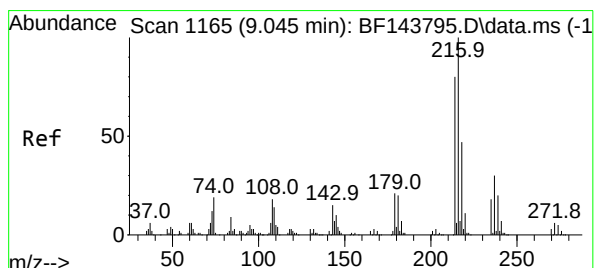
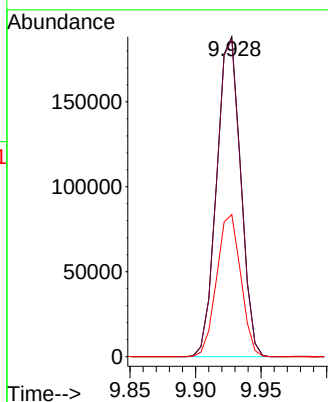
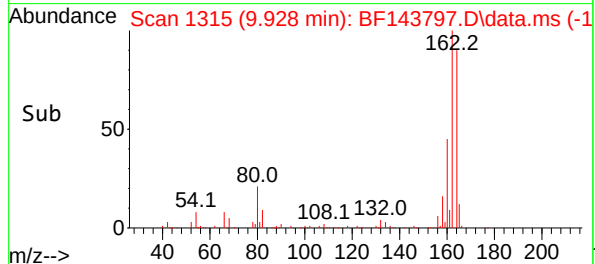
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC060



Tgt Ion:164 Resp: 240564  
Ion Ratio Lower Upper  
164 100  
162 99.1 78.8 118.2  
160 44.4 35.8 53.6

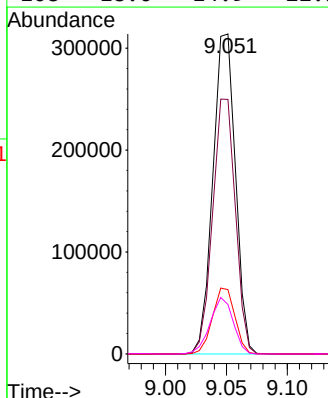
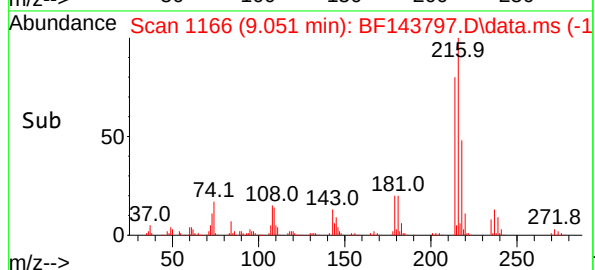
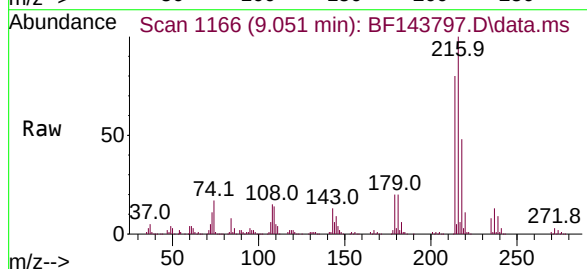
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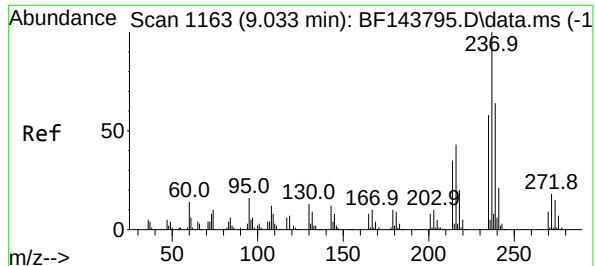
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#40  
1,2,4,5-Tetrachlorobenzene  
Concen: 55.860 ng  
RT: 9.051 min Scan# 1166  
Delta R.T. 0.000 min  
Lab File: BF143797.D  
Acq: 23 Sep 2025 14:58

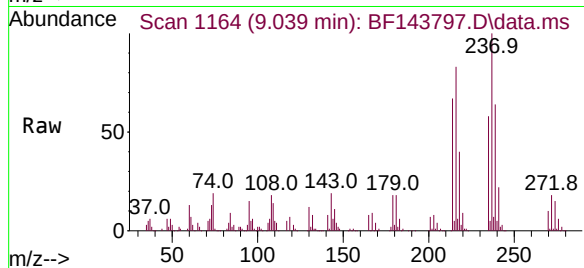
Tgt Ion:216 Resp: 405534  
Ion Ratio Lower Upper  
216 100  
214 80.0 63.7 95.5  
179 20.4 16.5 24.7  
108 18.0 14.9 22.3





#41  
Hexachlorocyclopentadiene  
Concen: 62.918 ng  
RT: 9.039 min Scan# 1164  
Delta R.T. 0.000 min  
Lab File: BF143797.D  
Acq: 23 Sep 2025 14:58

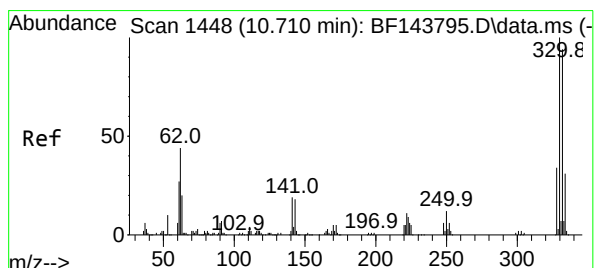
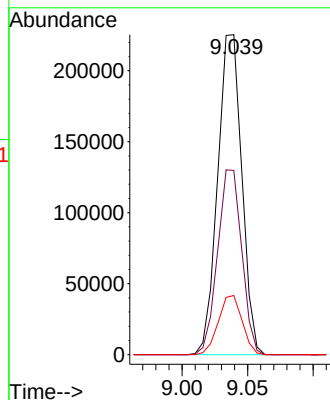
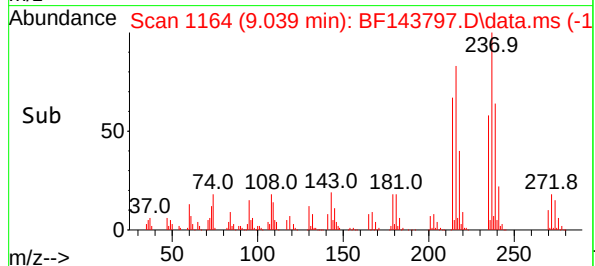
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC060



Tgt Ion: 237 Resp: 289489  
Ion Ratio Lower Upper  
237 100  
235 57.6 38.1 78.1  
272 18.5 0.0 37.9

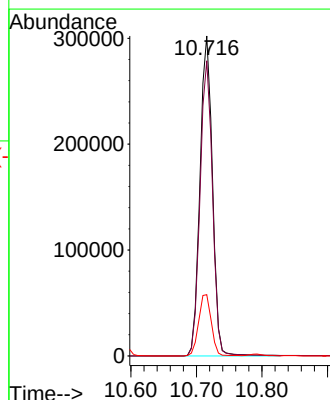
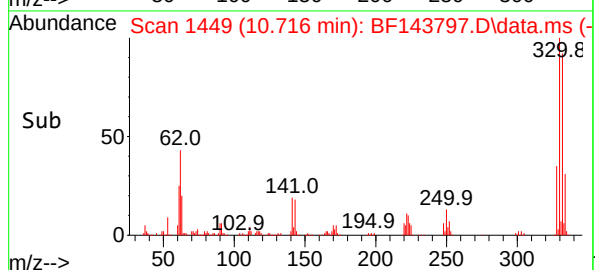
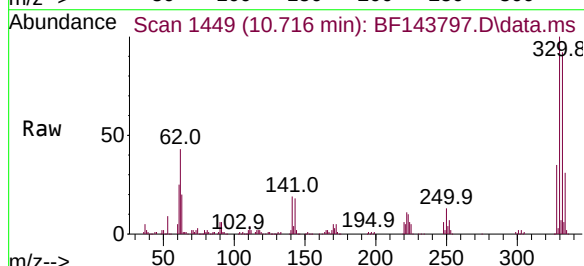
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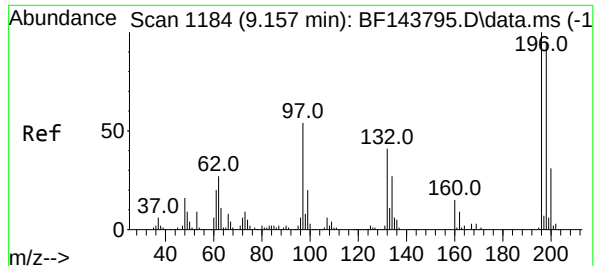
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#42  
2,4,6-Tribromophenol  
Concen: 115.480 ng  
RT: 10.716 min Scan# 1449  
Delta R.T. 0.000 min  
Lab File: BF143797.D  
Acq: 23 Sep 2025 14:58

Tgt Ion: 330 Resp: 396463  
Ion Ratio Lower Upper  
330 100  
332 92.7 74.7 112.1  
141 19.5 14.3 21.5





#43

2,4,6-Trichlorophenol

Concen: 62.219 ng

RT: 9.157 min Scan# 1184

Delta R.T. 0.000 min

Lab File: BF143797.D

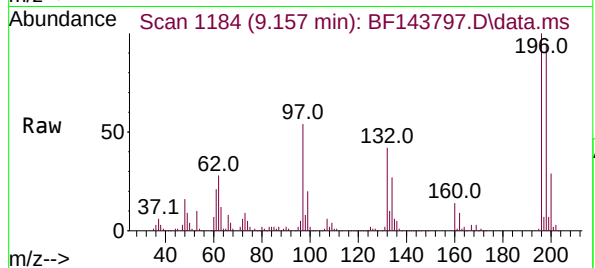
Acq: 23 Sep 2025 14:58

Instrument :

BNA\_F

ClientSampleId :

SSTDICC060



Tgt Ion:196 Resp: 282839

Ion Ratio Lower Upper

196 100

198 94.3 76.2 114.2

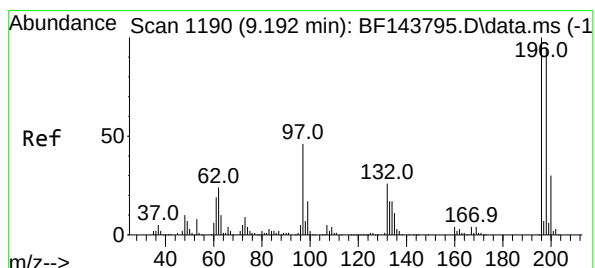
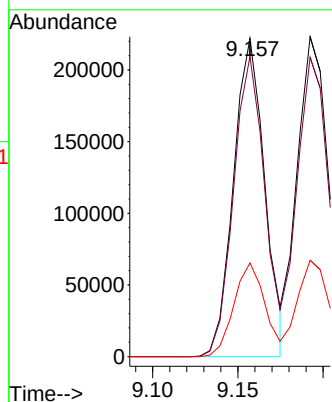
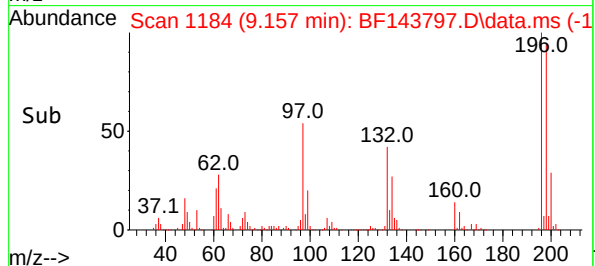
200 29.4 24.7 37.1

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#44

2,4,5-Trichlorophenol

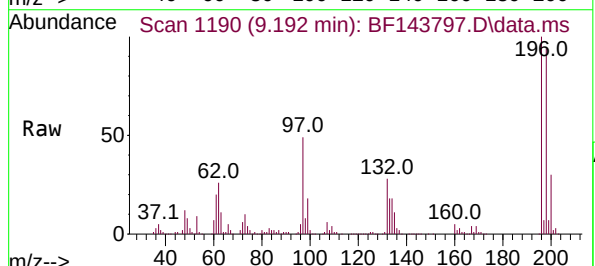
Concen: 60.982 ng

RT: 9.192 min Scan# 1190

Delta R.T. 0.000 min

Lab File: BF143797.D

Acq: 23 Sep 2025 14:58



Tgt Ion:196 Resp: 289963

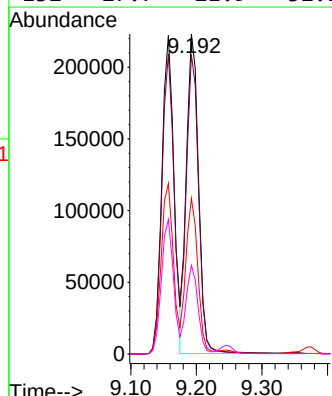
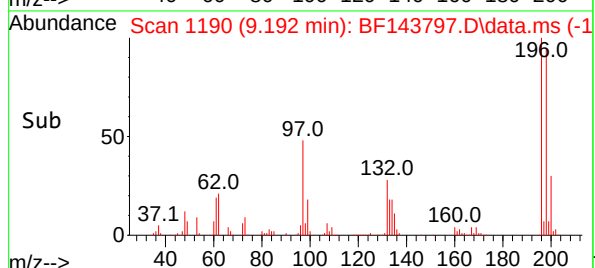
Ion Ratio Lower Upper

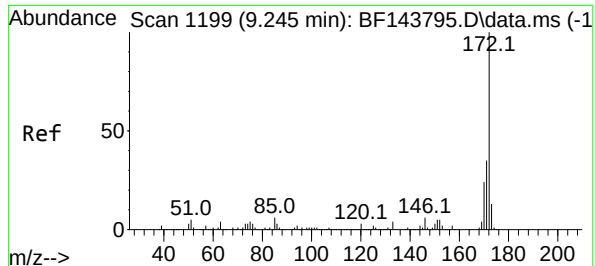
196 100

198 93.6 75.9 113.9

97 48.6 38.3 57.5

132 27.7 21.9 32.9





#45

2-Fluorobiphenyl

Concen: 102.249 ng

RT: 9.245 min Scan# 1199

Delta R.T. 0.000 min

Lab File: BF143797.D

Acq: 23 Sep 2025 14:58

Instrument :

BNA\_F

ClientSampleId :

SSTDICC060

Tgt Ion:172 Resp: 1664507

Ion Ratio Lower Upper

172 100

171 34.9 27.9 41.9

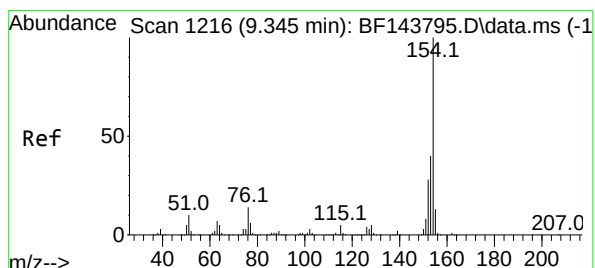
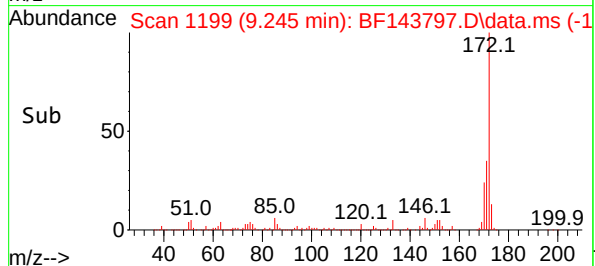
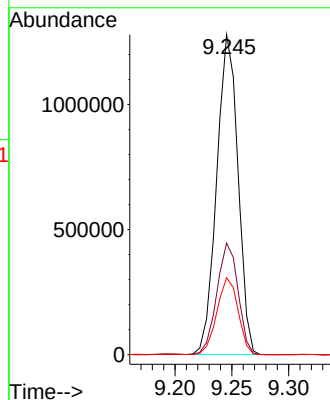
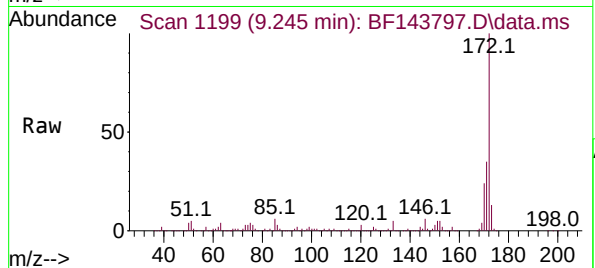
170 24.0 19.1 28.7

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Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#46

1,1'-Biphenyl

Concen: 54.963 ng

RT: 9.345 min Scan# 1216

Delta R.T. 0.000 min

Lab File: BF143797.D

Acq: 23 Sep 2025 14:58

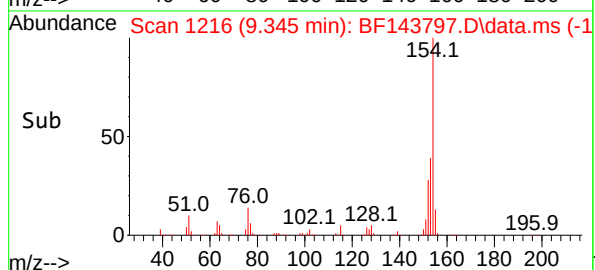
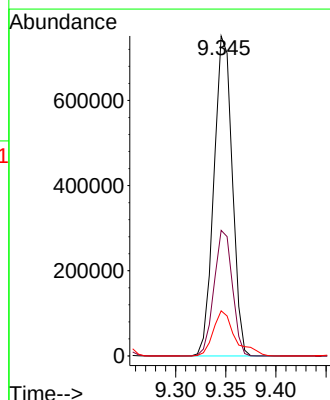
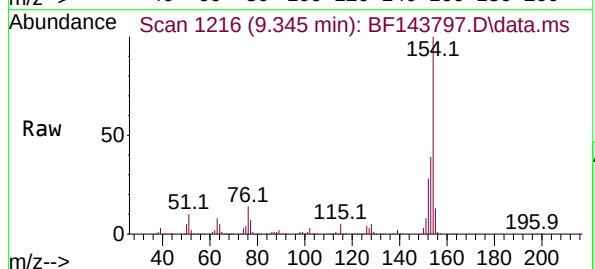
Tgt Ion:154 Resp: 957109

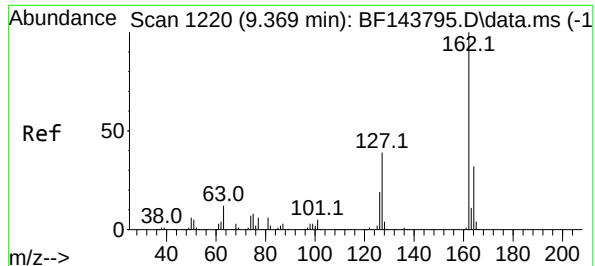
Ion Ratio Lower Upper

154 100

153 39.2 19.7 59.7

76 14.1 0.0 33.8





#47

2-Chloronaphthalene

Concen: 55.605 ng

RT: 9.375 min Scan# 1221

Delta R.T. 0.000 min

Lab File: BF143797.D

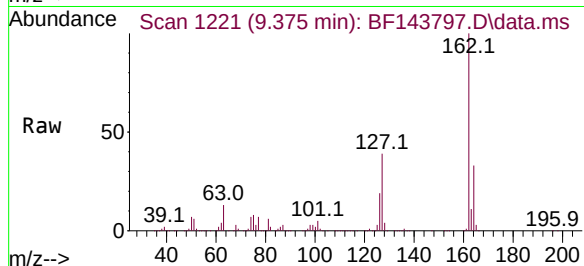
Acq: 23 Sep 2025 14:58

Instrument :

BNA\_F

ClientSampleId :

SSTDICC060



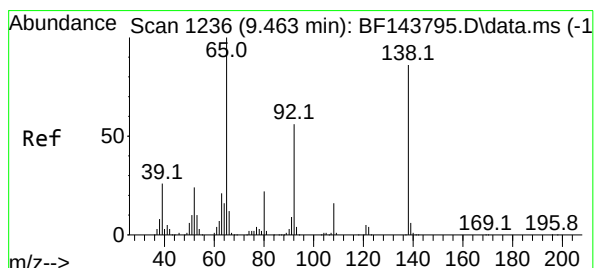
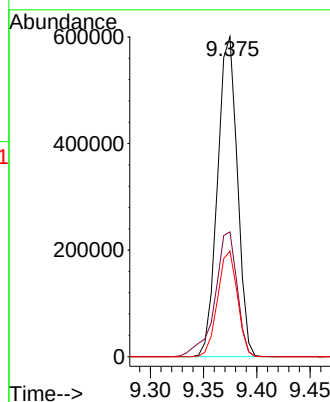
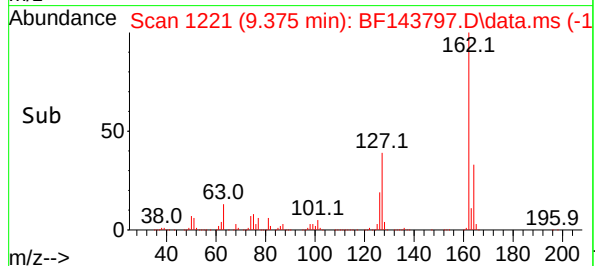
| Tgt Ion:  | 162  | Resp: | 779426 |
|-----------|------|-------|--------|
| Ion Ratio | 100  | Lower | Upper  |
| 162       | 100  |       |        |
| 127       | 39.0 | 31.5  | 47.3   |
| 164       | 32.9 | 25.9  | 38.9   |

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Supervised By :Jagrut Upadhyay 09/24/2025



#48

2-Nitroaniline

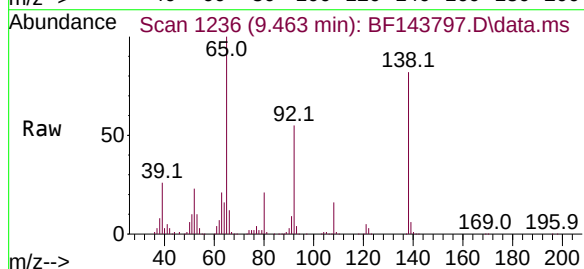
Concen: 68.075 ng

RT: 9.463 min Scan# 1236

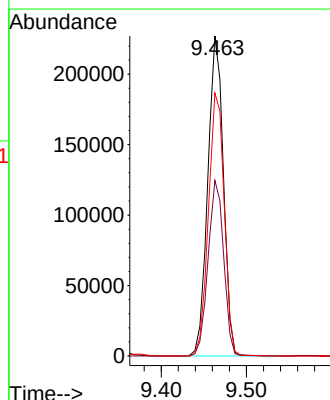
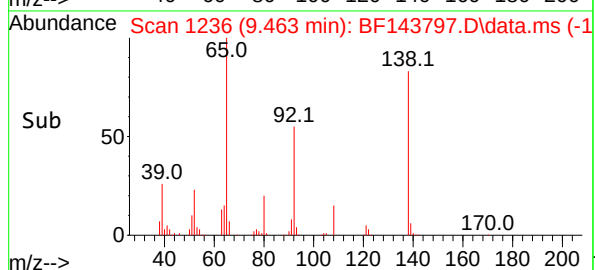
Delta R.T. 0.000 min

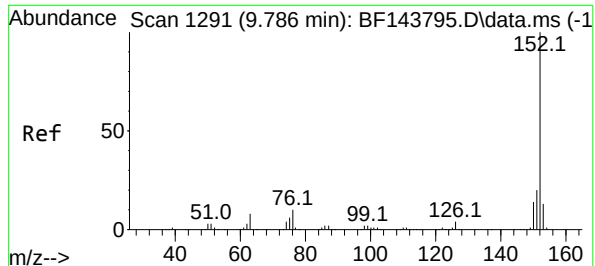
Lab File: BF143797.D

Acq: 23 Sep 2025 14:58



| Tgt Ion:  | 65   | Resp: | 288403 |
|-----------|------|-------|--------|
| Ion Ratio | 100  | Lower | Upper  |
| 65        | 100  |       |        |
| 92        | 54.8 | 44.9  | 67.3   |
| 138       | 82.1 | 69.0  | 103.4  |





#49

Acenaphthylene

Concen: 56.581 ng

RT: 9.786 min Scan# 1291

Delta R.T. 0.000 min

Lab File: BF143797.D

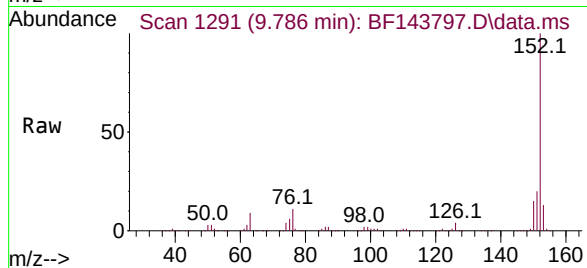
Acq: 23 Sep 2025 14:58

Instrument :

BNA\_F

ClientSampleId :

SSTDICC060



Tgt Ion:152 Resp: 1091835

Ion Ratio Lower Upper

152 100

151 19.8 15.7 23.5

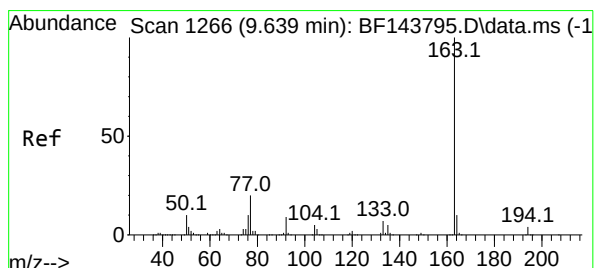
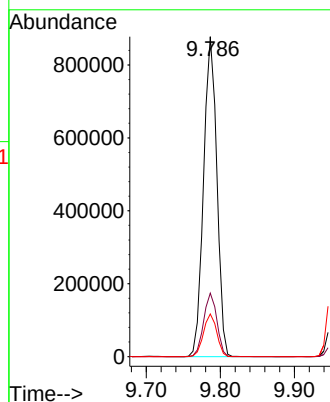
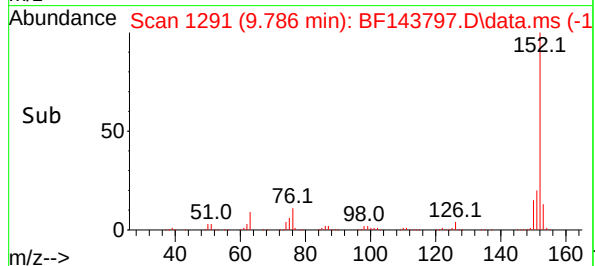
153 13.3 10.6 15.8

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#50

Dimethylphthalate

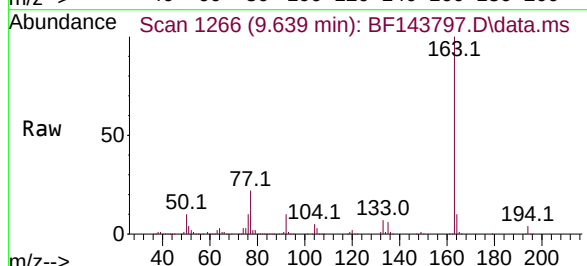
Concen: 58.627 ng

RT: 9.639 min Scan# 1266

Delta R.T. 0.000 min

Lab File: BF143797.D

Acq: 23 Sep 2025 14:58



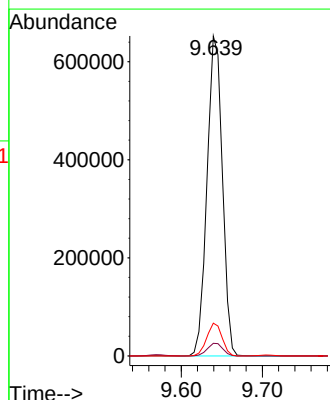
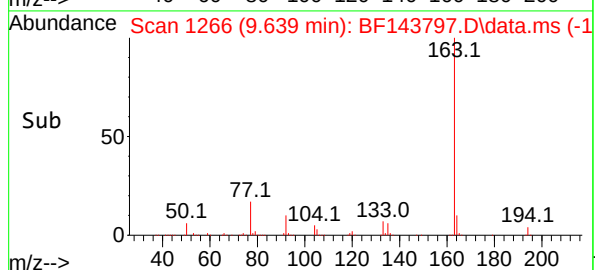
Tgt Ion:163 Resp: 859613

Ion Ratio Lower Upper

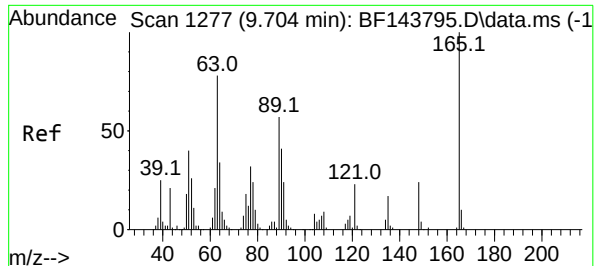
163 100

194 3.9 3.0 4.6

164 10.2 8.2 12.2

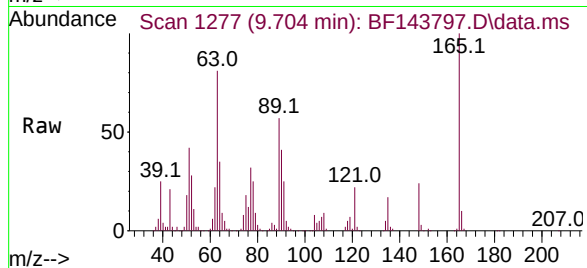






#51  
2,6-Dinitrotoluene  
Concen: 69.313 ng  
RT: 9.704 min Scan# 1277  
Delta R.T. 0.000 min  
Lab File: BF143797.D  
Acq: 23 Sep 2025 14:58

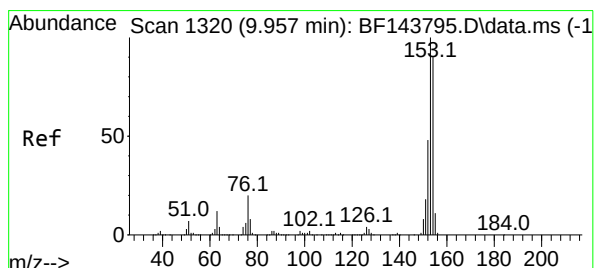
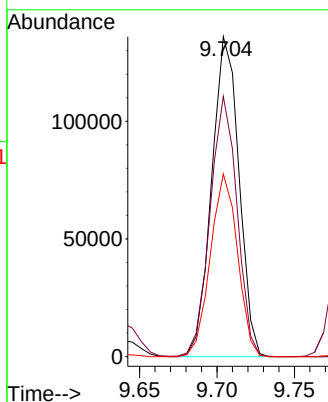
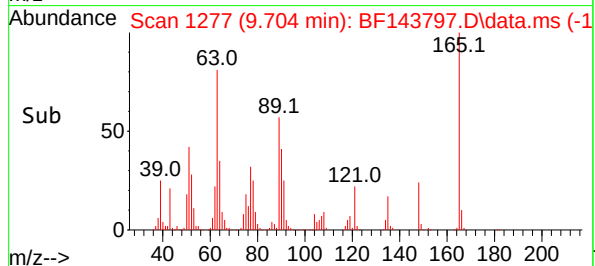
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC060



Tgt Ion:165 Resp: 166972  
Ion Ratio Lower Upper  
165 100  
63 81.3 62.6 94.0  
89 57.1 45.2 67.8

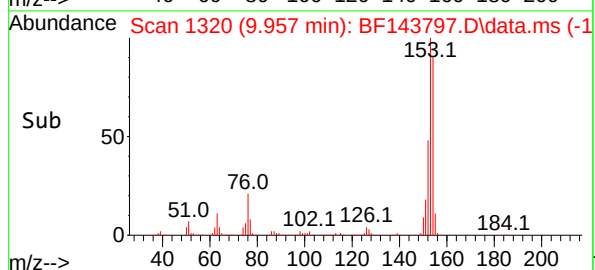
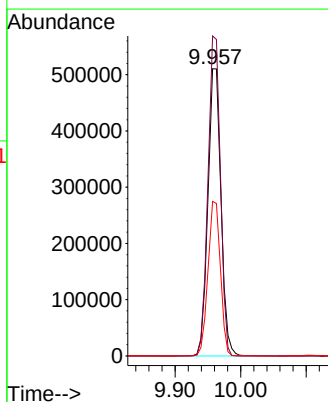
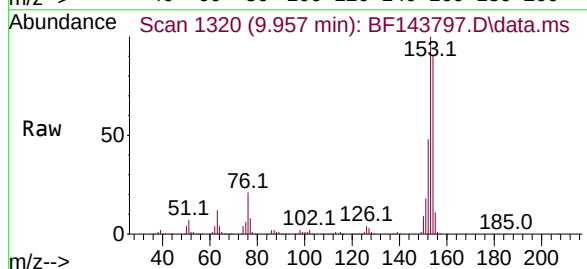
Manual Integrations  
APPROVED

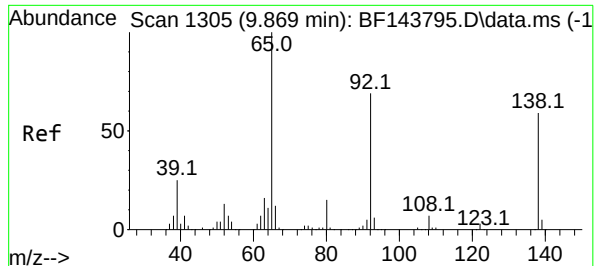
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#52  
Acenaphthene  
Concen: 55.494 ng  
RT: 9.957 min Scan# 1320  
Delta R.T. -0.006 min  
Lab File: BF143797.D  
Acq: 23 Sep 2025 14:58

Tgt Ion:154 Resp: 704698  
Ion Ratio Lower Upper  
154 100  
153 111.5 88.7 133.1  
152 53.8 42.7 64.1





#53

3-Nitroaniline

Concen: 65.960 ng

RT: 9.875 min Scan# 1306

Delta R.T. 0.000 min

Lab File: BF143797.D

Acq: 23 Sep 2025 14:58

Instrument :

BNA\_F

ClientSampleId :

SSTDICC060

Tgt Ion:138 Resp: 19260

Ion Ratio Lower Upper

138 100

108 11.6 9.9 14.9

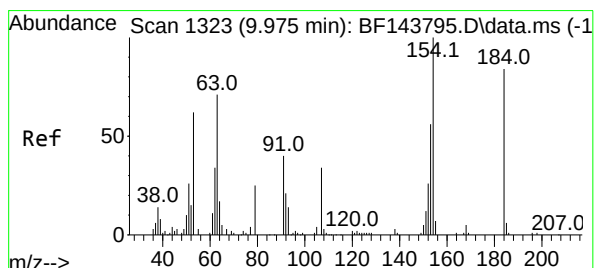
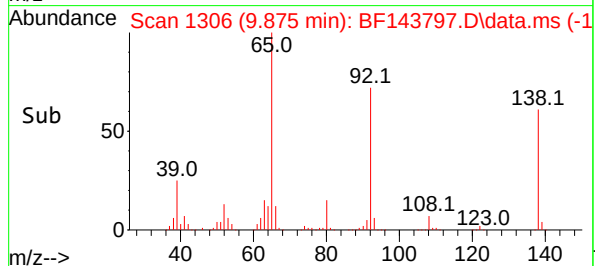
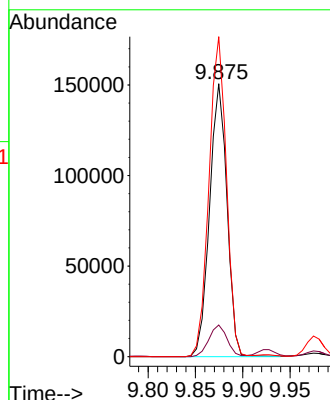
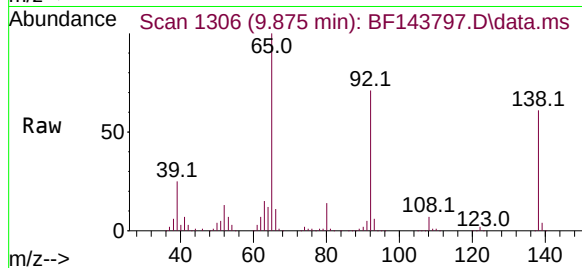
92 117.3 93.5 140.3

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#54

2,4-Dinitrophenol

Concen: 61.464 ng

RT: 9.975 min Scan# 1323

Delta R.T. -0.000 min

Lab File: BF143797.D

Acq: 23 Sep 2025 14:58

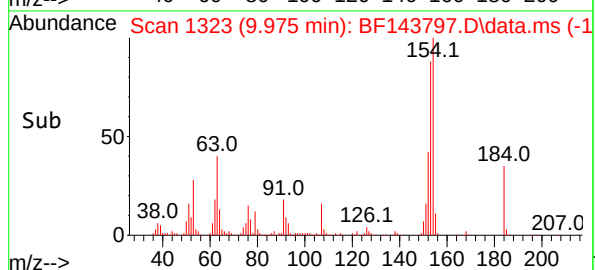
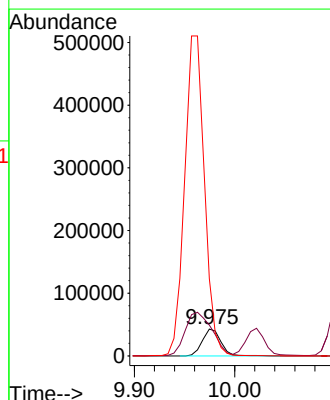
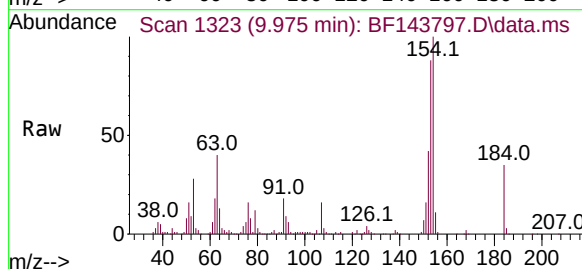
Tgt Ion:184 Resp: 54678

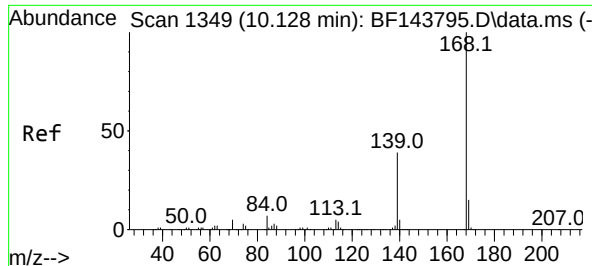
Ion Ratio Lower Upper

184 100

63 114.9 84.6 127.0

154 288.7 199.3 298.9





#55

Dibenzenofuran

Concen: 55.941 ng

RT: 10.134 min Scan# 1349

Delta R.T. 0.000 min

Lab File: BF143797.D

Acq: 23 Sep 2025 14:58

Instrument :

BNA\_F

ClientSampleId :

SSTDICC060

Tgt Ion:168 Resp: 1004529

Ion Ratio Lower Upper

168 100

139 38.8 31.0 46.6

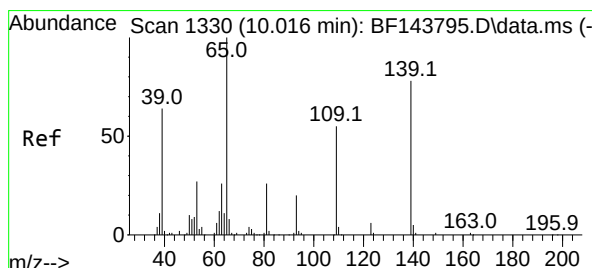
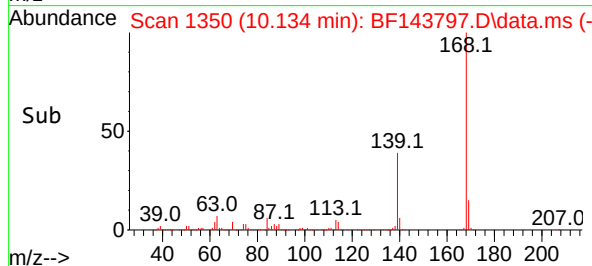
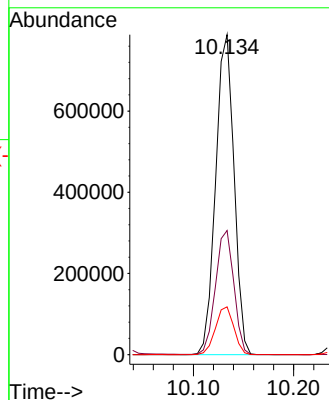
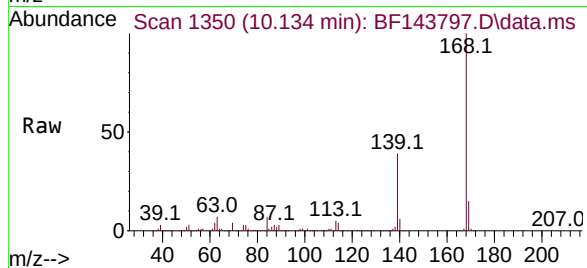
169 14.9 11.9 17.9

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#56

4-Nitrophenol

Concen: 60.557 ng

RT: 10.022 min Scan# 1331

Delta R.T. 0.000 min

Lab File: BF143797.D

Acq: 23 Sep 2025 14:58

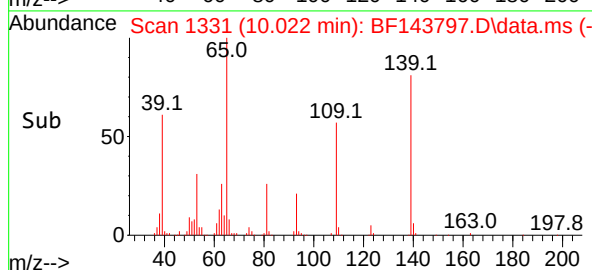
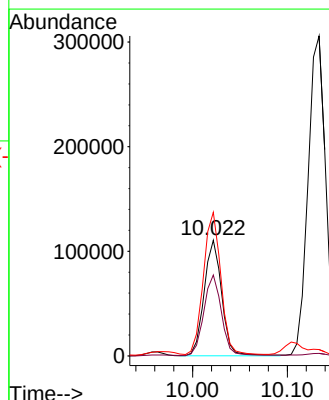
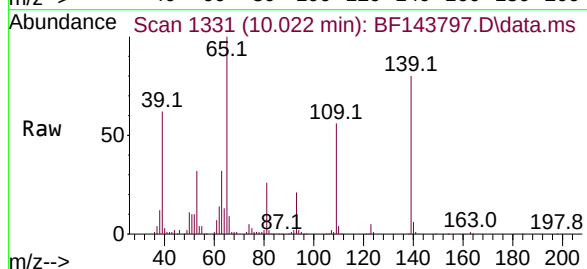
Tgt Ion:139 Resp: 142495

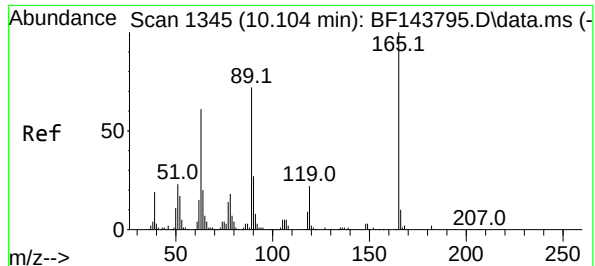
Ion Ratio Lower Upper

139 100

109 69.9 50.2 90.2

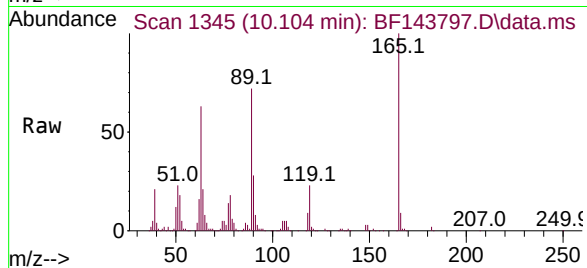
65 124.2 109.2 149.2





#57  
2,4-Dinitrotoluene  
Concen: 61.297 ng  
RT: 10.104 min Scan# 1345  
Delta R.T. -0.006 min  
Lab File: BF143797.D  
Acq: 23 Sep 2025 14:58

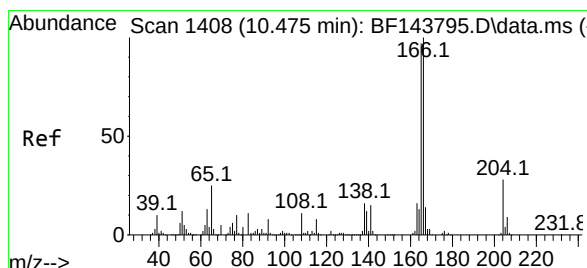
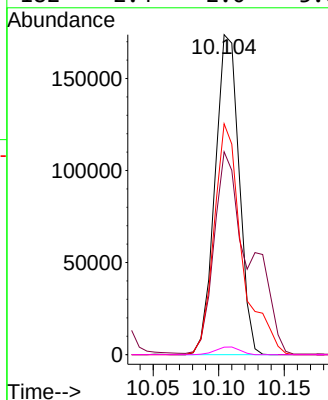
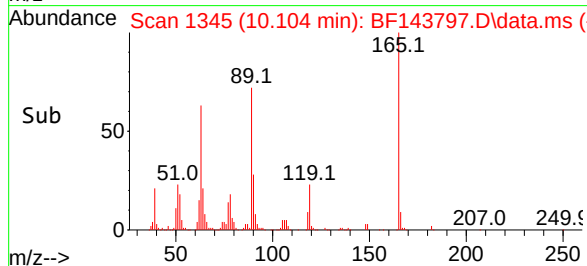
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC060



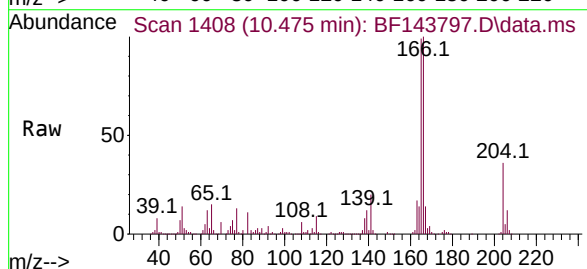
Tgt Ion:165 Resp: 222260  
Ion Ratio Lower Upper  
165 100  
63 63.4 48.9 73.3  
89 72.1 57.5 86.3  
182 2.4 2.0 3.0

Manual Integrations  
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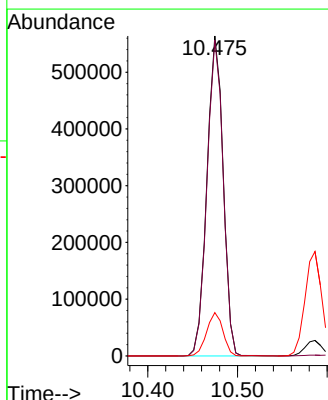
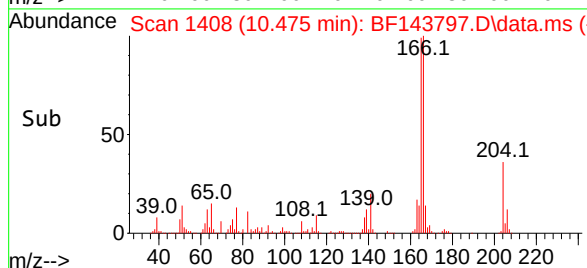
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025

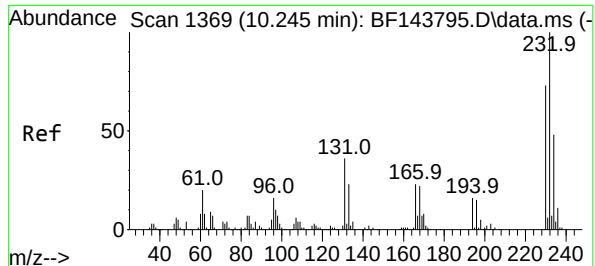


#58  
Fluorene  
Concen: 53.330 ng  
RT: 10.475 min Scan# 1408  
Delta R.T. 0.000 min  
Lab File: BF143797.D  
Acq: 23 Sep 2025 14:58



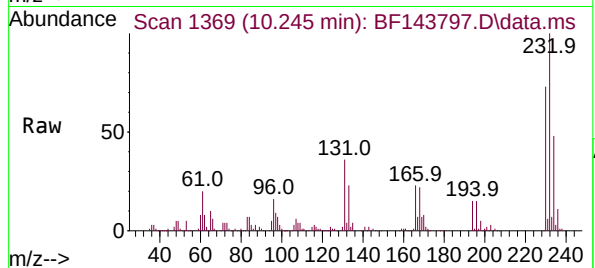
Tgt Ion:166 Resp: 711929  
Ion Ratio Lower Upper  
166 100  
165 98.7 78.0 117.0  
167 13.5 10.9 16.3





#59  
2,3,4,6-Tetrachlorophenol  
Concen: 63.904 ng  
RT: 10.245 min Scan# 1369  
Delta R.T. 0.000 min  
Lab File: BF143797.D  
Acq: 23 Sep 2025 14:58

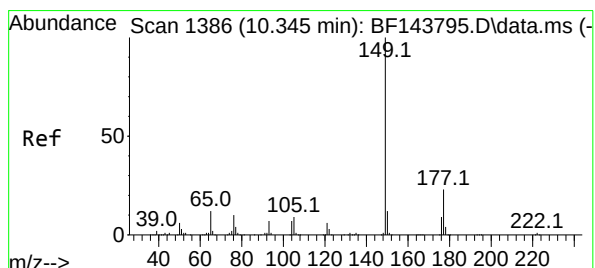
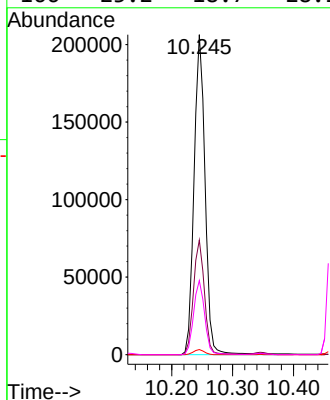
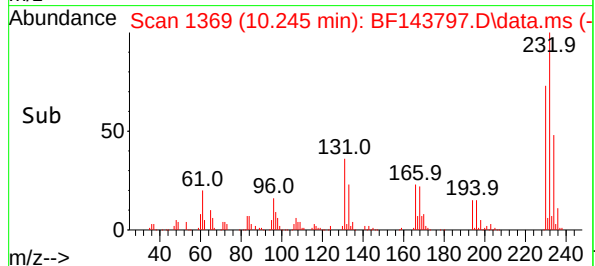
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC060



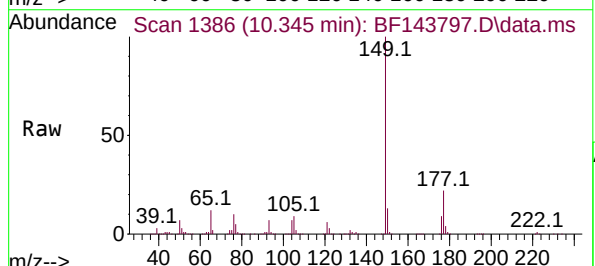
Tgt Ion:232 Resp: 260302  
Ion Ratio Lower Upper  
232 100  
131 35.6 29.4 44.2  
130 1.5 1.3 1.9  
166 23.2 18.7 28.1

Manual Integrations  
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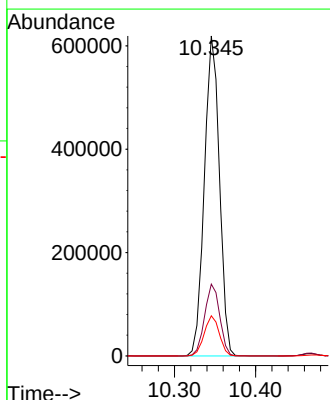
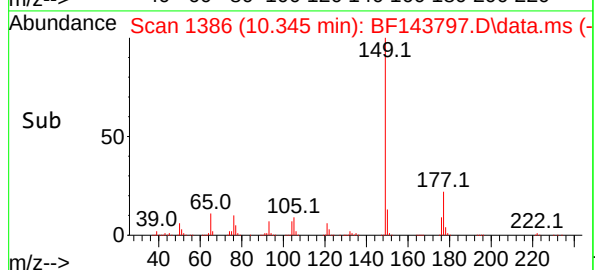
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025

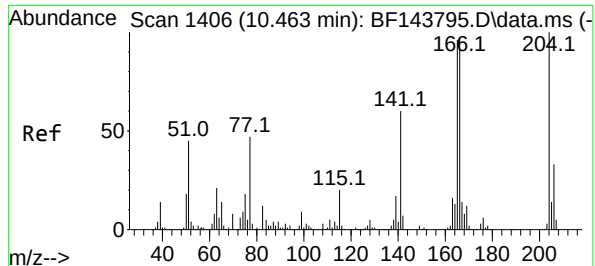


#60  
Diethylphthalate  
Concen: 58.305 ng  
RT: 10.345 min Scan# 1386  
Delta R.T. 0.000 min  
Lab File: BF143797.D  
Acq: 23 Sep 2025 14:58



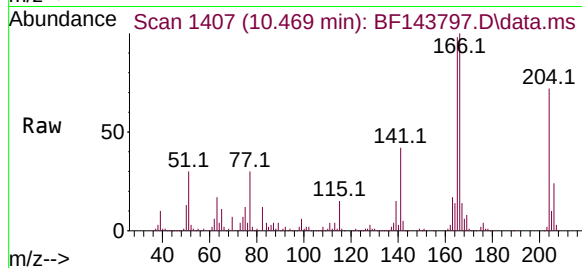
Tgt Ion:149 Resp: 800261  
Ion Ratio Lower Upper  
149 100  
177 22.4 18.1 27.1  
150 12.5 9.7 14.5





#61  
4-Chlorophenyl-phenylether  
Concen: 55.593 ng  
RT: 10.469 min Scan# 1406  
Delta R.T. 0.000 min  
Lab File: BF143797.D  
Acq: 23 Sep 2025 14:58

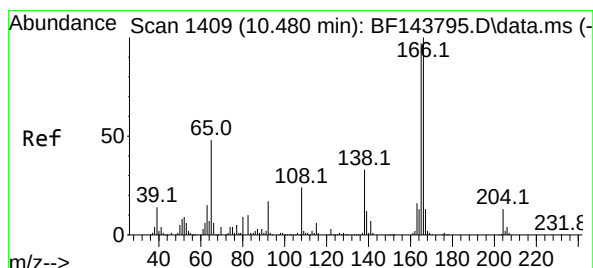
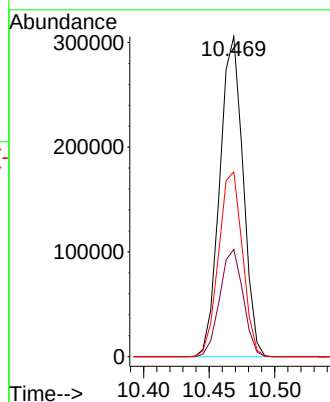
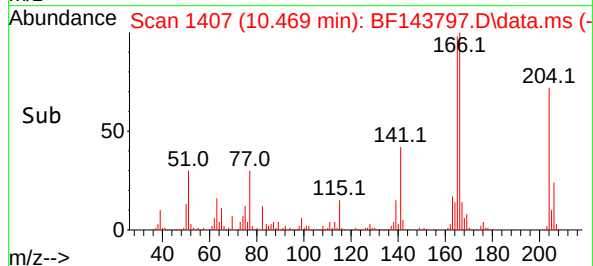
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC060



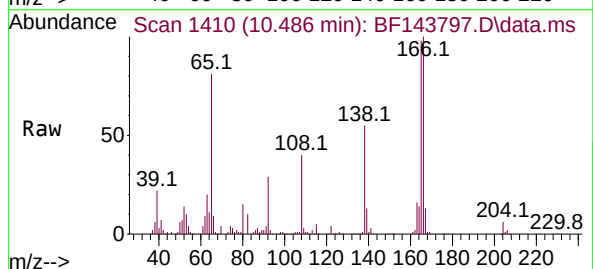
Tgt Ion:204 Resp: 37814  
Ion Ratio Lower Upper  
204 100  
206 33.5 26.7 40.1  
141 57.7 48.2 72.2

Manual Integrations  
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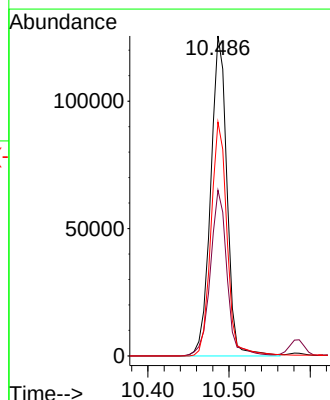
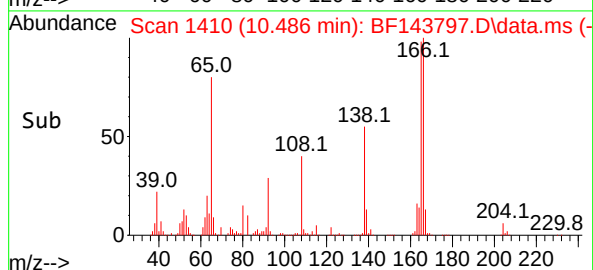
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025

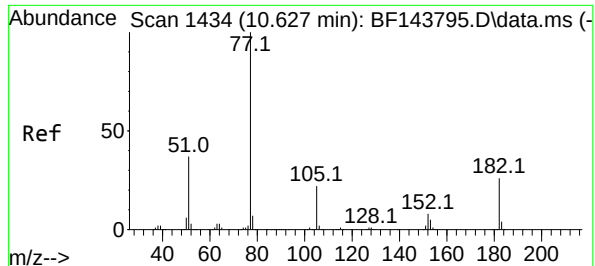


#62  
4-Nitroaniline  
Concen: 63.907 ng  
RT: 10.486 min Scan# 1410  
Delta R.T. -0.006 min  
Lab File: BF143797.D  
Acq: 23 Sep 2025 14:58



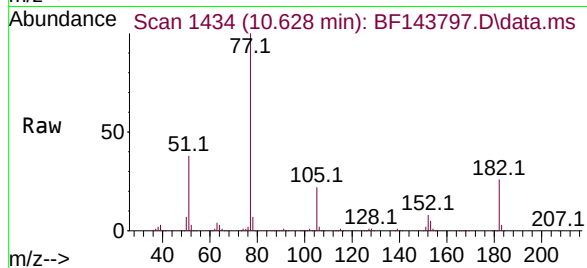
Tgt Ion:138 Resp: 175465  
Ion Ratio Lower Upper  
138 100  
92 51.8 31.5 71.5  
108 73.1 51.9 91.9





#63  
Azobenzene  
Concen: 58.022 ng  
RT: 10.628 min Scan# 1434  
Delta R.T. 0.000 min  
Lab File: BF143797.D  
Acq: 23 Sep 2025 14:58

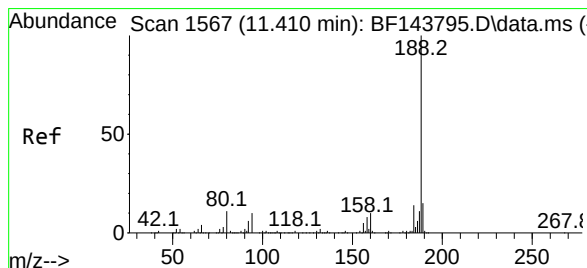
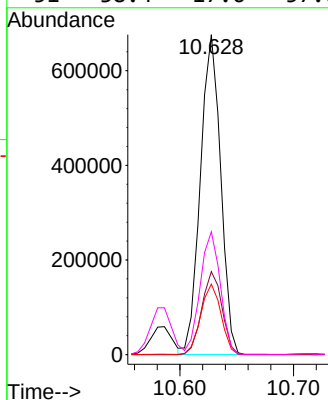
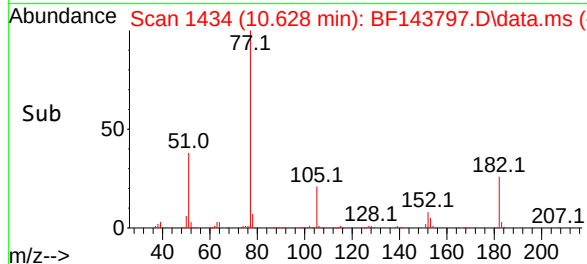
Instrument :  
BNA\_F  
Client Sample Id :  
SSTDICC060



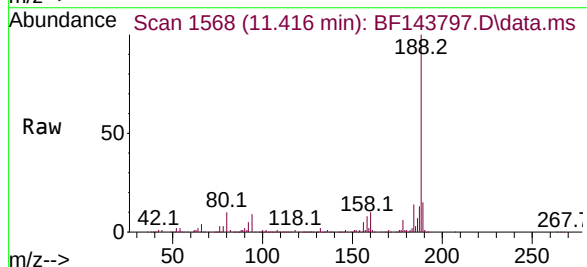
Tgt Ion: 77 Resp: 839301  
Ion Ratio Lower Upper  
77 100  
182 25.9 5.9 45.9  
105 22.0 2.3 42.3  
51 38.4 17.6 57.6

Manual Integrations  
APPROVED

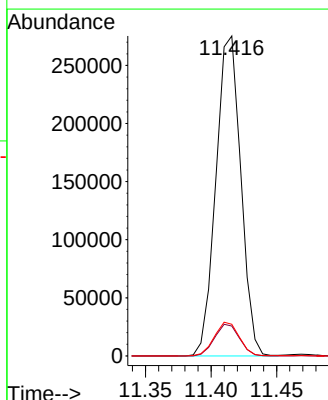
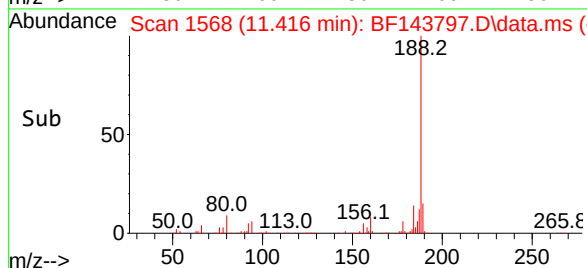
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025

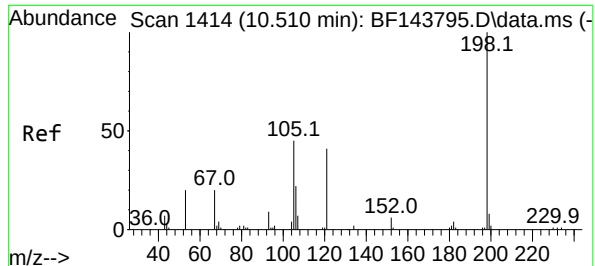


#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.416 min Scan# 1568  
Delta R.T. -0.000 min  
Lab File: BF143797.D  
Acq: 23 Sep 2025 14:58



Tgt Ion:188 Resp: 364411  
Ion Ratio Lower Upper  
188 100  
94 9.3 8.2 12.2  
80 9.9 8.6 12.8





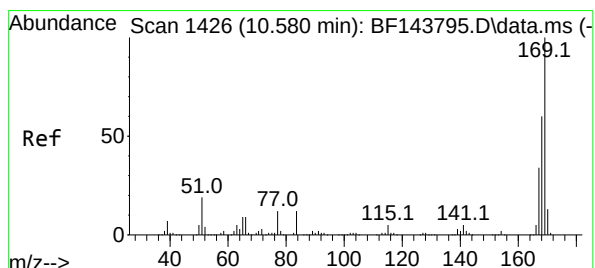
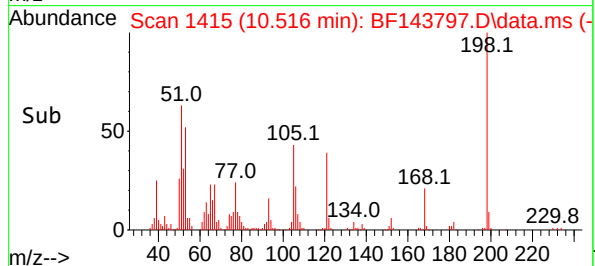
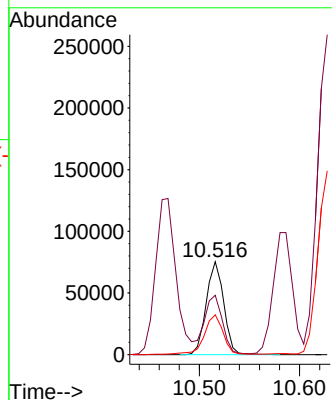
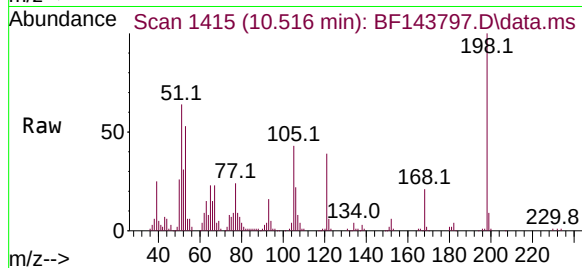
#65  
4,6-Dinitro-2-methylphenol  
Concen: 62.624 ng  
RT: 10.516 min Scan# 1414  
Delta R.T. -0.000 min  
Lab File: BF143797.D  
Acq: 23 Sep 2025 14:58

Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC060

Tgt Ion:198 Resp: 90861  
Ion Ratio Lower Upper  
198 100  
51 63.9 52.0 92.0  
105 42.8 27.5 67.5

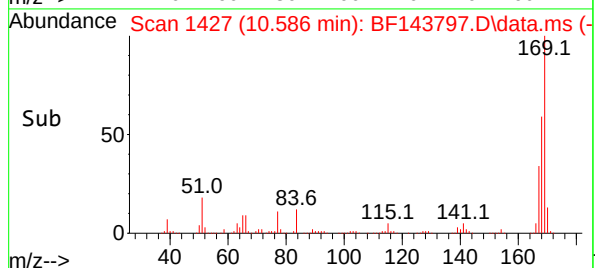
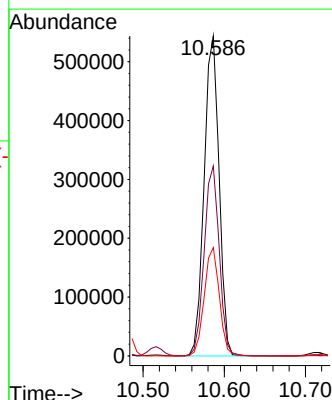
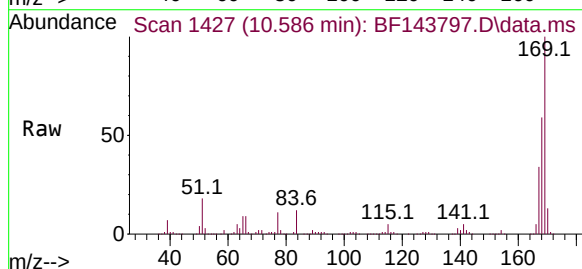
Manual Integrations  
APPROVED

Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025

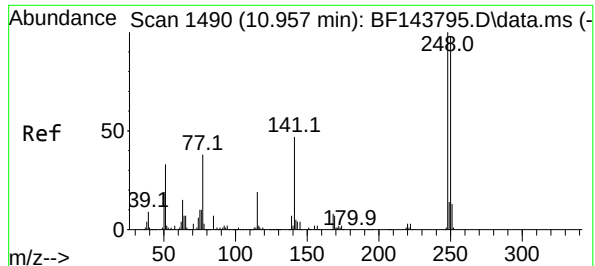


#66  
n-Nitrosodiphenylamine  
Concen: 58.067 ng  
RT: 10.586 min Scan# 1427  
Delta R.T. 0.000 min  
Lab File: BF143797.D  
Acq: 23 Sep 2025 14:58

Tgt Ion:169 Resp: 695896  
Ion Ratio Lower Upper  
169 100  
168 59.3 47.9 71.9  
167 33.8 27.0 40.6

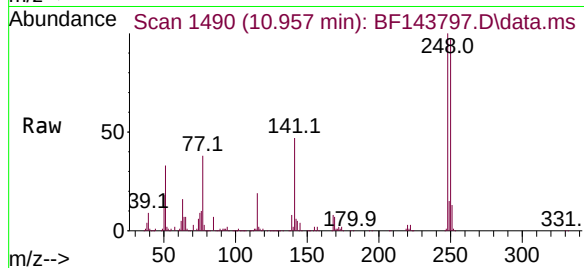






#67  
4-Bromophenyl-phenylether  
Concen: 60.132 ng  
RT: 10.957 min Scan# 1490  
Delta R.T. 0.000 min  
Lab File: BF143797.D  
Acq: 23 Sep 2025 14:58

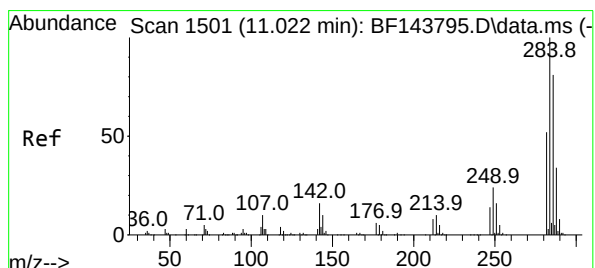
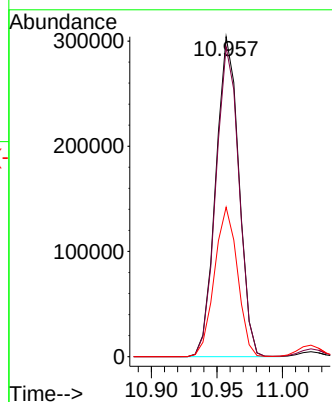
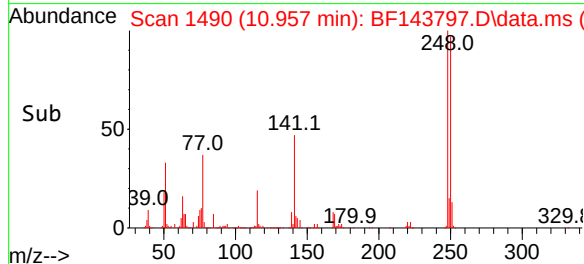
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC060



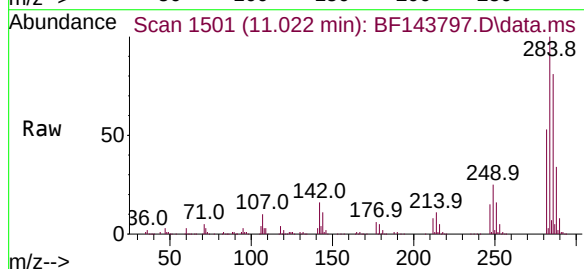
Tgt Ion:248 Resp: 373431  
Ion Ratio Lower Upper  
248 100  
250 96.8 78.7 118.1  
141 46.7 37.9 56.9

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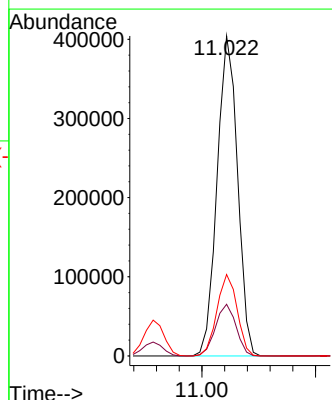
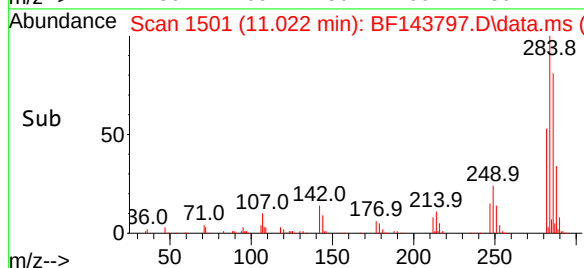
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025

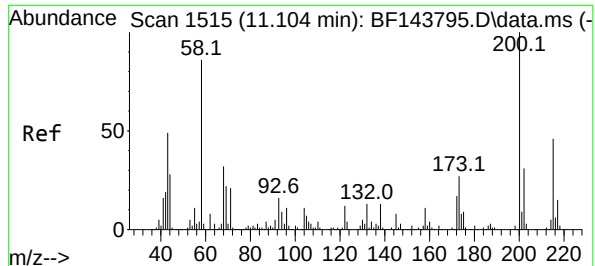


#68  
Hexachlorobenzene  
Concen: 58.941 ng  
RT: 11.022 min Scan# 1501  
Delta R.T. 0.000 min  
Lab File: BF143797.D  
Acq: 23 Sep 2025 14:58



Tgt Ion:284 Resp: 504432  
Ion Ratio Lower Upper  
284 100  
142 16.2 13.1 19.7  
249 25.4 19.5 29.3





#69

Atrazine

Concen: 58.963 ng

RT: 11.110 min Scan# 1516

Delta R.T. 0.000 min

Lab File: BF143797.D

Acq: 23 Sep 2025 14:58

Instrument :

BNA\_F

ClientSampleId :

SSTDICC060

Tgt Ion:200 Resp: 204628

Ion Ratio Lower Upper

200 100

173 27.2 7.2 47.2

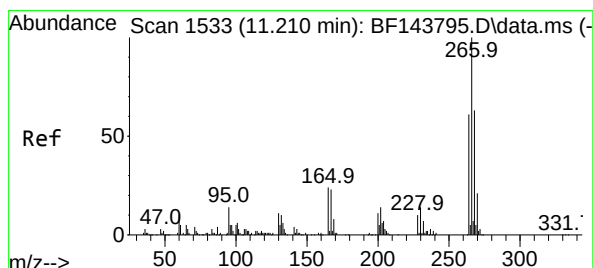
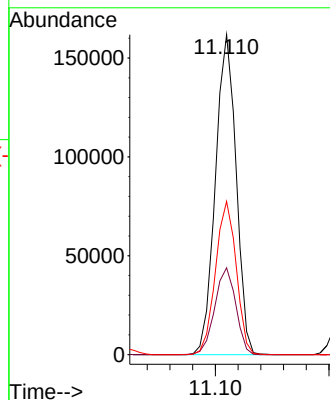
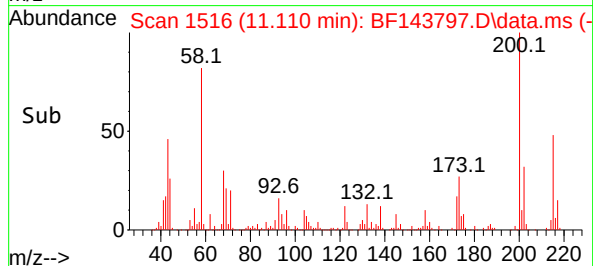
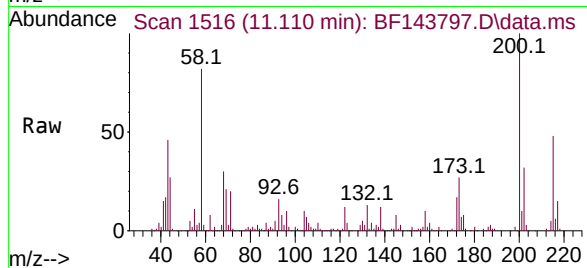
215 47.9 26.0 66.0

Manual Integrations

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Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#70

Pentachlorophenol

Concen: 65.133 ng

RT: 11.216 min Scan# 1534

Delta R.T. 0.000 min

Lab File: BF143797.D

Acq: 23 Sep 2025 14:58

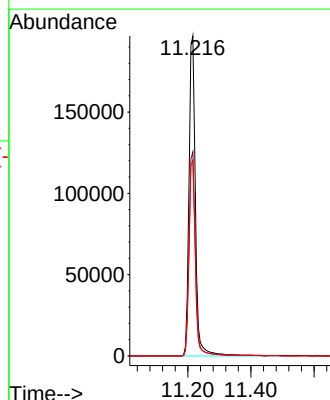
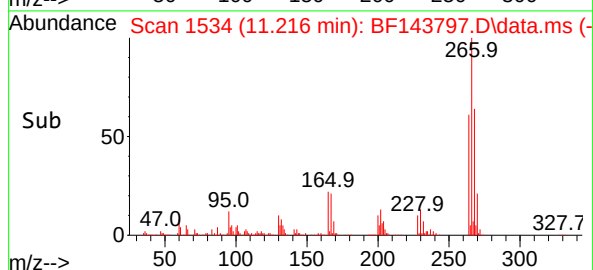
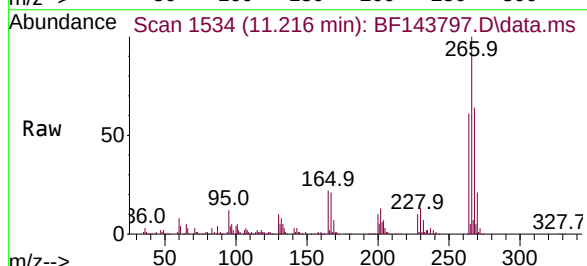
Tgt Ion:266 Resp: 277473

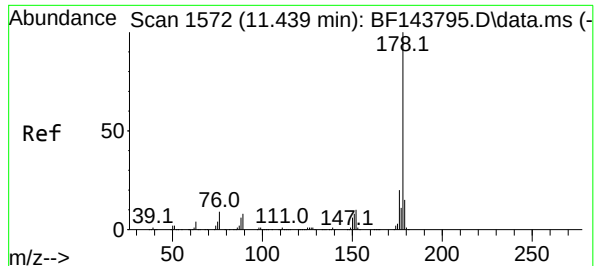
Ion Ratio Lower Upper

266 100

268 63.8 50.5 75.7

264 61.1 48.8 73.2





#71

Phenanthrene

Concen: 55.742 ng

RT: 11.439 min Scan# 1572

Delta R.T. 0.000 min

Lab File: BF143797.D

Acq: 23 Sep 2025 14:58

Instrument :

BNA\_F

ClientSampleId :

SSTDICC060

Tgt Ion:178 Resp: 104287

Ion Ratio Lower Upper

178 100

176 19.7 15.6 23.4

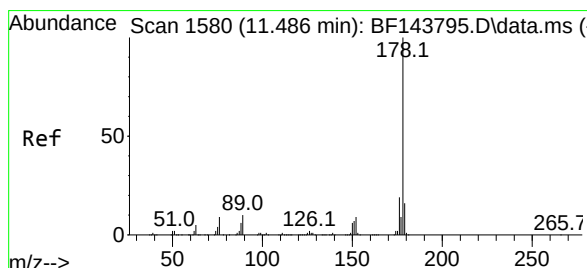
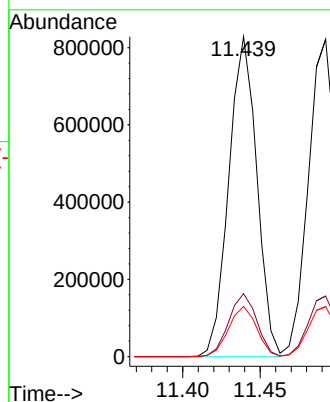
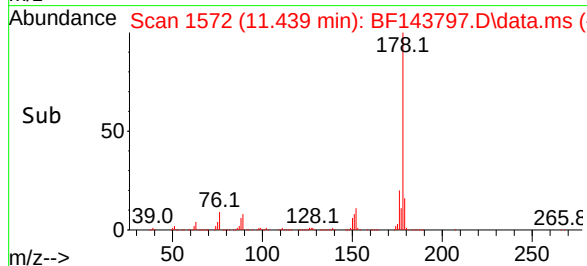
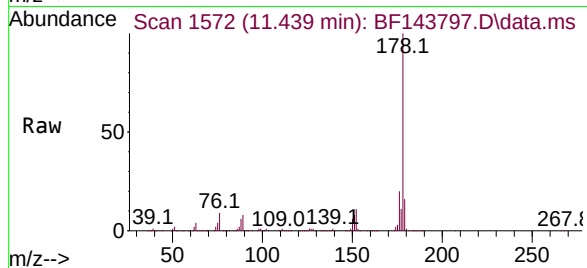
179 15.7 12.2 18.4

Manual Integrations

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#72

Anthracene

Concen: 56.095 ng

RT: 11.492 min Scan# 1581

Delta R.T. 0.000 min

Lab File: BF143797.D

Acq: 23 Sep 2025 14:58

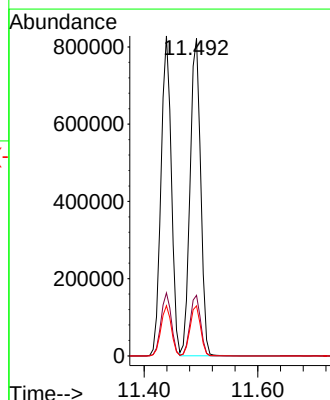
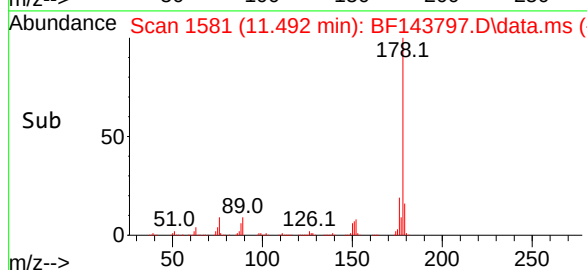
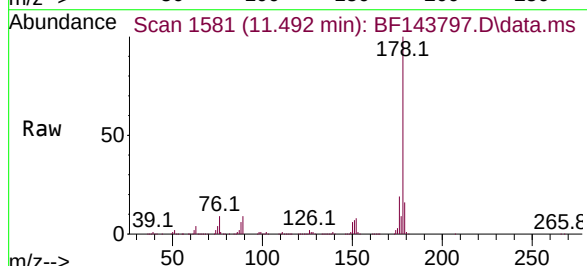
Tgt Ion:178 Resp: 1052693

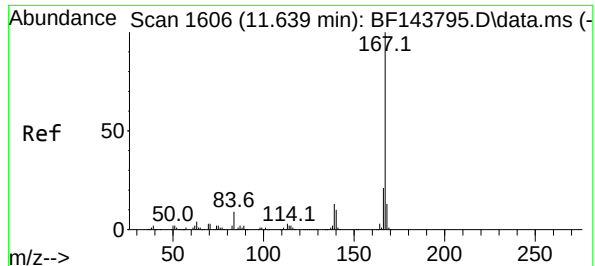
Ion Ratio Lower Upper

178 100

176 19.1 15.3 22.9

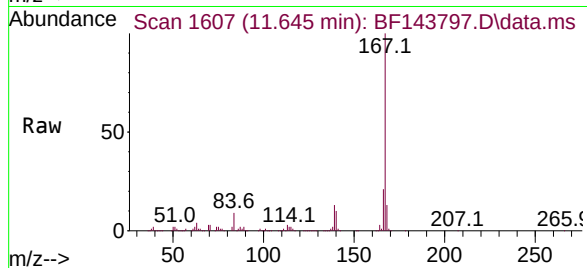
179 15.8 12.8 19.2





#73  
Carbazole  
Concen: 56.377 ng  
RT: 11.645 min Scan# 1607  
Delta R.T. 0.000 min  
Lab File: BF143797.D  
Acq: 23 Sep 2025 14:58

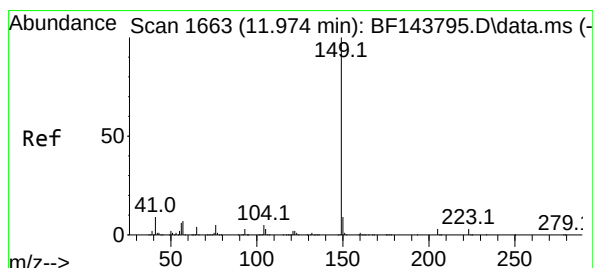
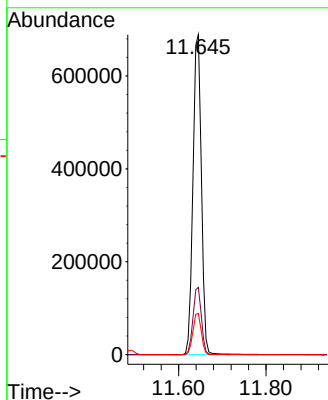
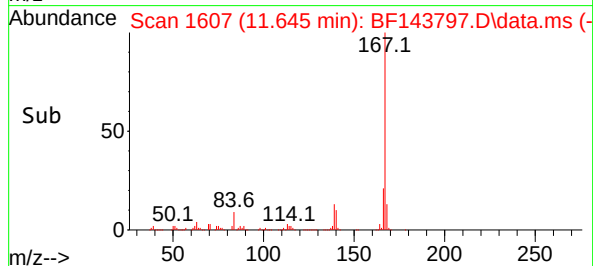
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC060



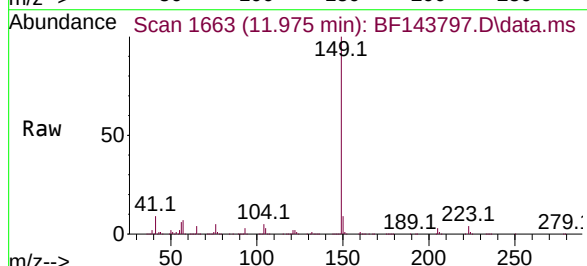
Tgt Ion:167 Resp: 925032  
Ion Ratio Lower Upper  
167 100  
166 21.0 17.0 25.4  
139 12.8 10.6 15.8

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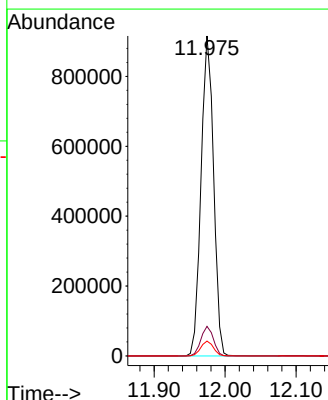
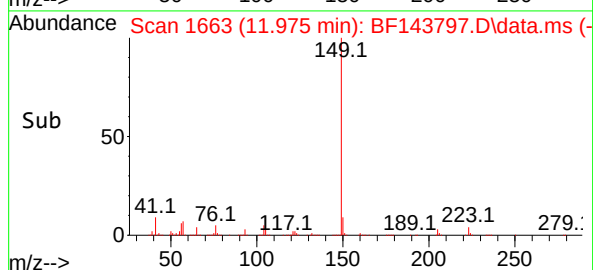
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025

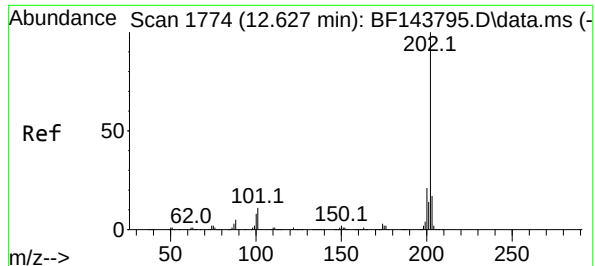


#74  
Di-n-butylphthalate  
Concen: 59.029 ng  
RT: 11.975 min Scan# 1663  
Delta R.T. 0.000 min  
Lab File: BF143797.D  
Acq: 23 Sep 2025 14:58



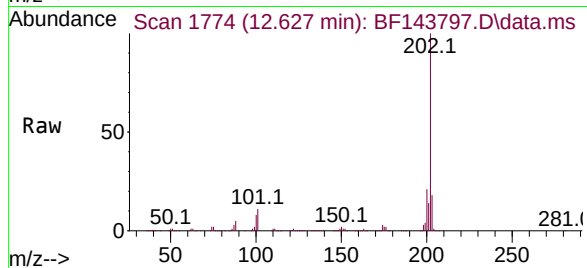
Tgt Ion:149 Resp: 1113894  
Ion Ratio Lower Upper  
149 100  
150 9.2 7.3 10.9  
104 4.6 3.6 5.4





#75  
Fluoranthene  
Concen: 55.523 ng  
RT: 12.627 min Scan# 1774  
Delta R.T. 0.000 min  
Lab File: BF143797.D  
Acq: 23 Sep 2025 14:58

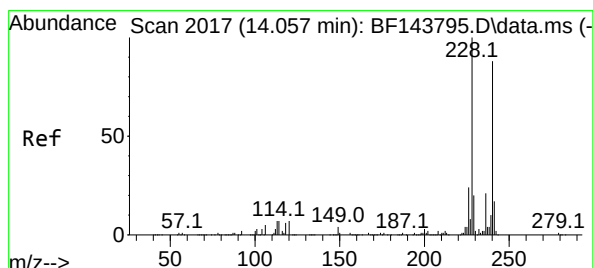
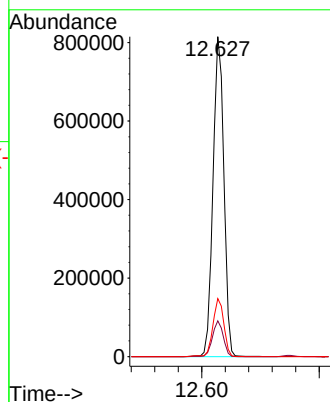
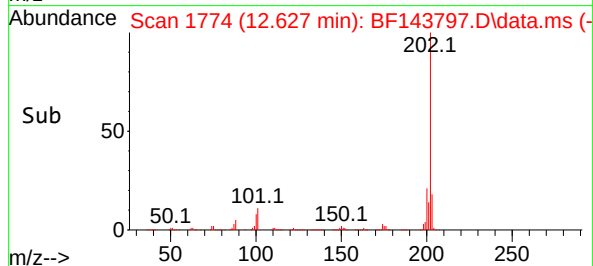
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC060



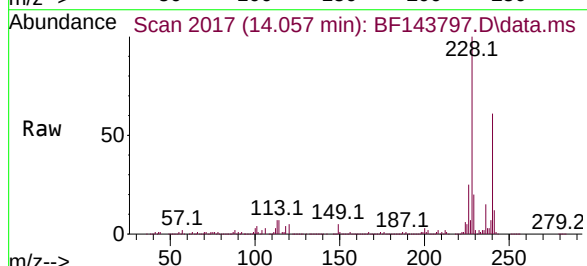
Tgt Ion:202 Resp: 1044763  
Ion Ratio Lower Upper  
202 100  
101 11.2 0.0 31.1  
203 18.1 0.0 37.4

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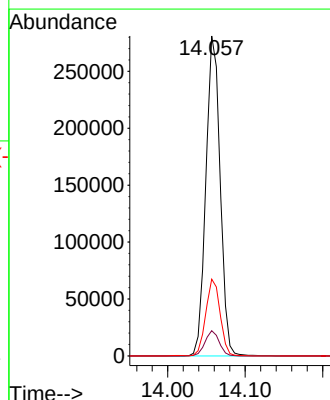
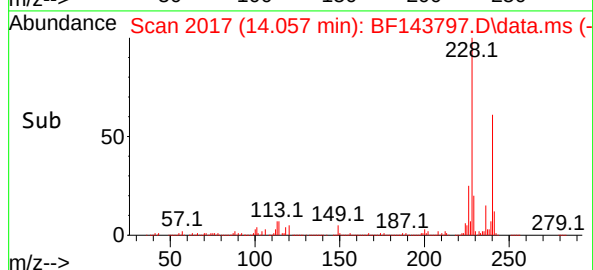
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025

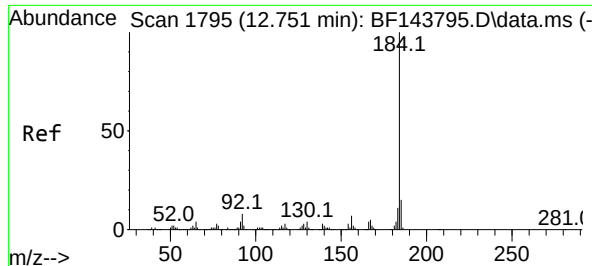


#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.057 min Scan# 2017  
Delta R.T. -0.006 min  
Lab File: BF143797.D  
Acq: 23 Sep 2025 14:58



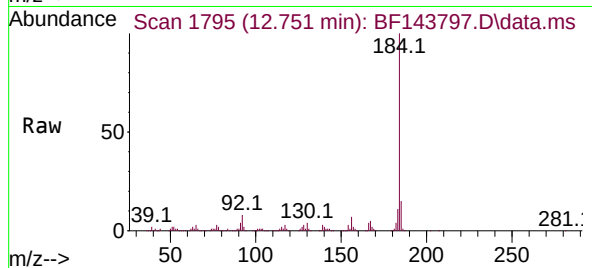
Tgt Ion:240 Resp: 359318  
Ion Ratio Lower Upper  
240 100  
120 7.9 6.2 9.4  
236 24.0 19.4 29.2





#77  
Benzidine  
Concen: 68.094 ng  
RT: 12.751 min Scan# 1795  
Delta R.T. 0.000 min  
Lab File: BF143797.D  
Acq: 23 Sep 2025 14:58

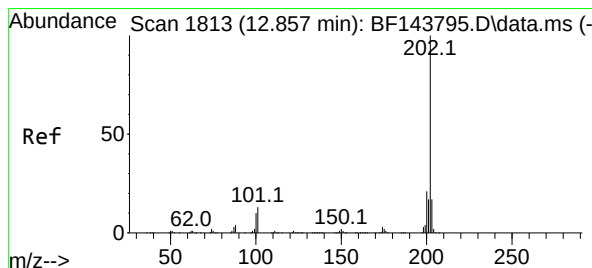
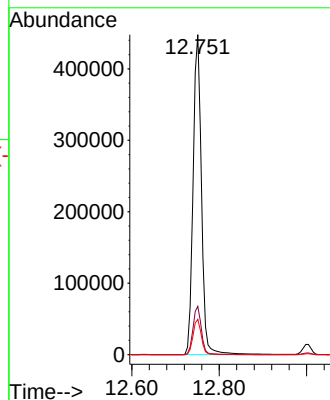
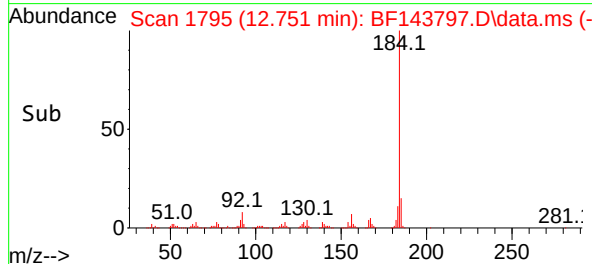
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC060



Tgt Ion:184 Resp: 596216  
Ion Ratio Lower Upper  
184 100  
185 15.1 11.6 17.4  
183 11.0 8.6 13.0

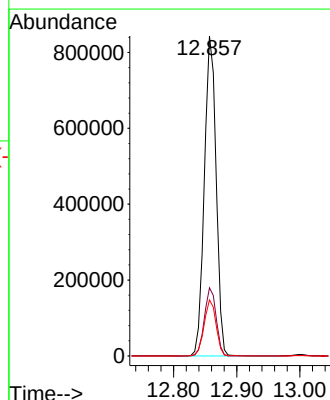
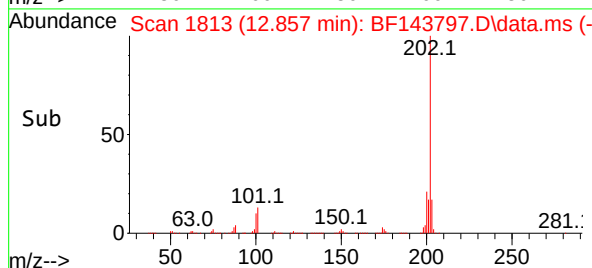
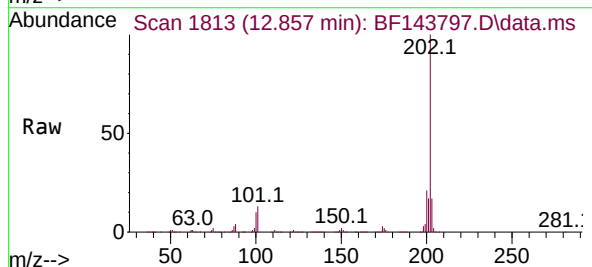
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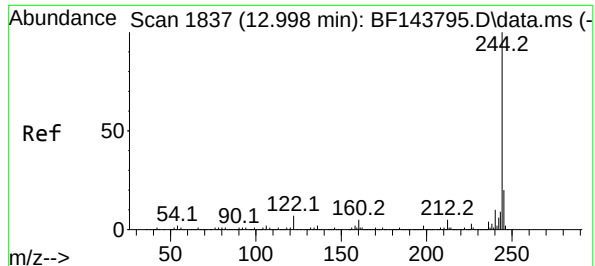
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#78  
Pyrene  
Concen: 61.683 ng  
RT: 12.857 min Scan# 1813  
Delta R.T. 0.000 min  
Lab File: BF143797.D  
Acq: 23 Sep 2025 14:58

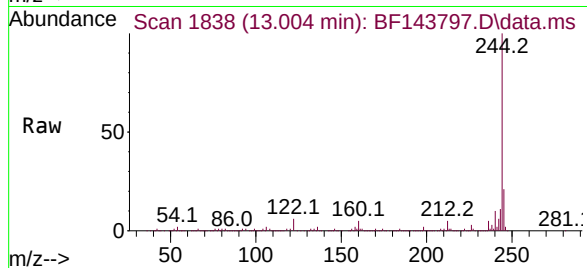
Tgt Ion:202 Resp: 1089660  
Ion Ratio Lower Upper  
202 100  
200 21.3 17.0 25.4  
203 17.5 13.9 20.9





#79  
Terphenyl-d14  
Concen: 116.521 ng  
RT: 13.004 min Scan# 1838  
Delta R.T. 0.000 min  
Lab File: BF143797.D  
Acq: 23 Sep 2025 14:58

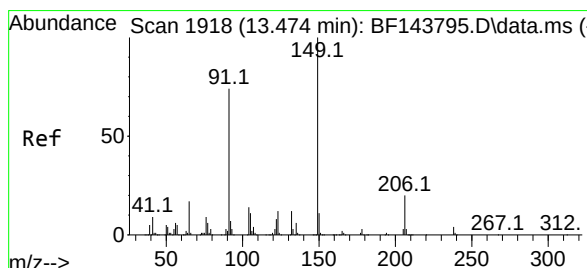
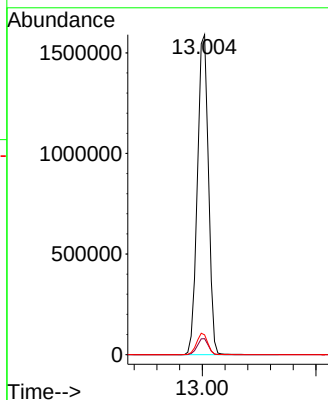
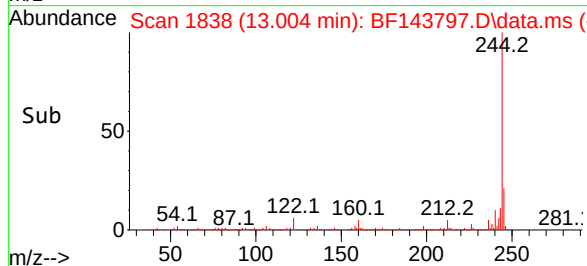
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC060



Tgt Ion:244 Resp: 2132520  
Ion Ratio Lower Upper  
244 100  
212 5.0 3.9 5.9  
122 6.2 5.6 8.4

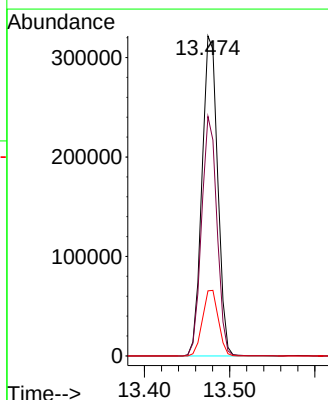
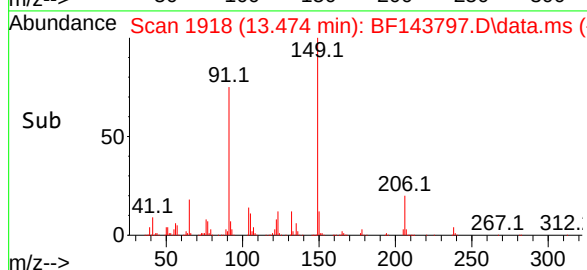
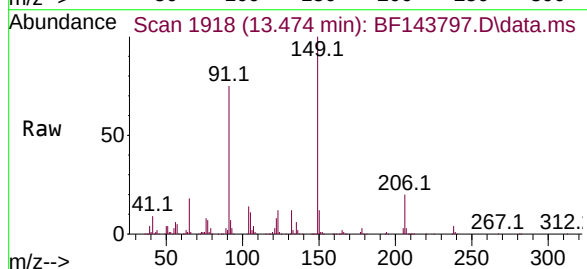
Manual Integrations  
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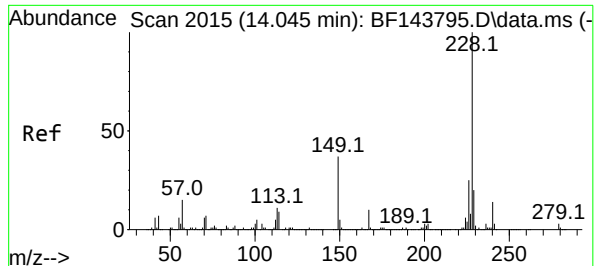
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#80  
Butylbenzylphthalate  
Concen: 67.252 ng  
RT: 13.474 min Scan# 1918  
Delta R.T. -0.006 min  
Lab File: BF143797.D  
Acq: 23 Sep 2025 14:58

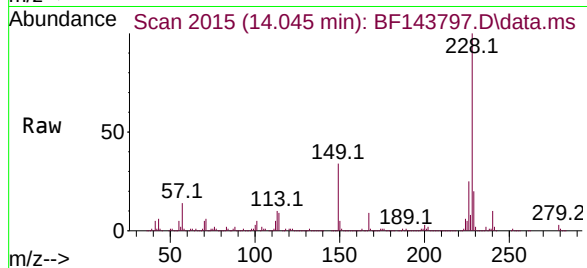
Tgt Ion:149 Resp: 411027  
Ion Ratio Lower Upper  
149 100  
91 74.8 59.5 89.3  
206 20.3 16.1 24.1





#81  
Benzo(a)anthracene  
Concen: 59.491 ng  
RT: 14.045 min Scan# 2015  
Delta R.T. -0.006 min  
Lab File: BF143797.D  
Acq: 23 Sep 2025 14:58

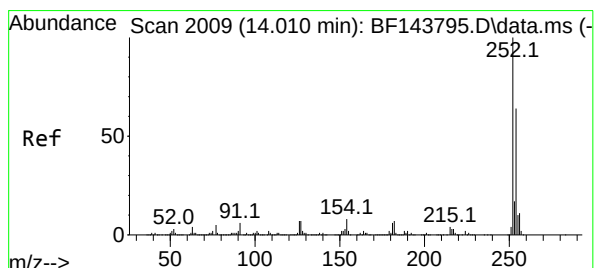
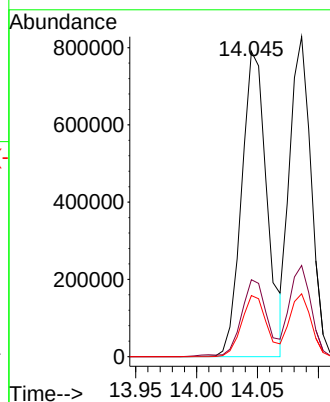
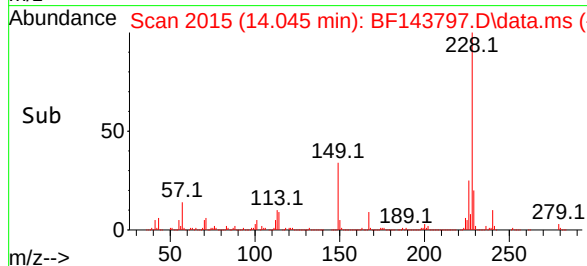
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC060



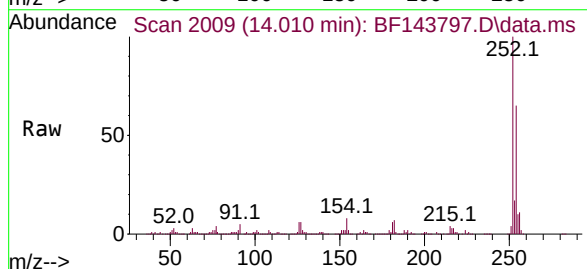
Tgt Ion:228 Resp: 1148366  
Ion Ratio Lower Upper  
228 100  
226 25.2 20.2 30.2  
229 20.0 16.1 24.1

Manual Integrations  
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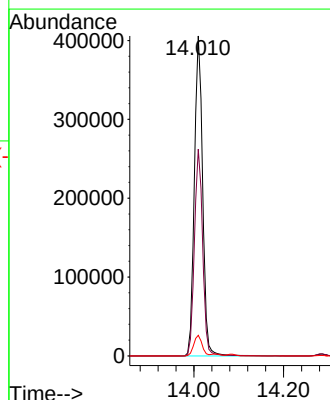
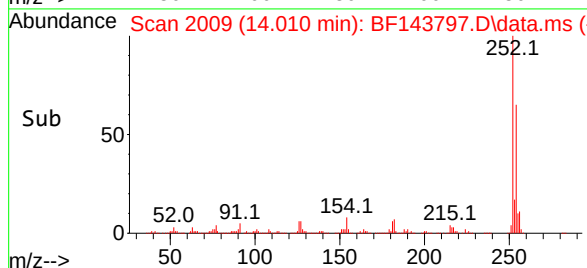
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



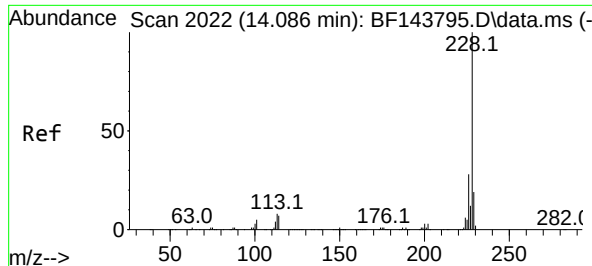
#82  
3,3'-Dichlorobenzidine  
Concen: 61.874 ng  
RT: 14.010 min Scan# 2009  
Delta R.T. 0.000 min  
Lab File: BF143797.D  
Acq: 23 Sep 2025 14:58



Tgt Ion:252 Resp: 517428  
Ion Ratio Lower Upper  
252 100  
254 64.6 51.5 77.3  
126 6.4 5.4 8.2

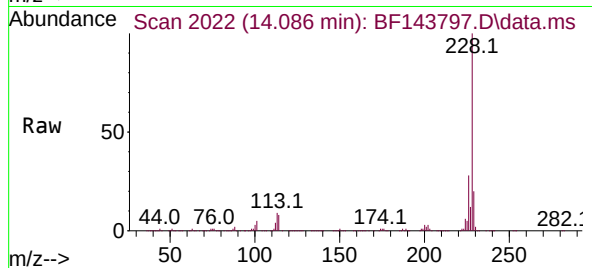






#83  
Chrysene  
Concen: 58.075 ng  
RT: 14.086 min Scan# 2022  
Delta R.T. 0.000 min  
Lab File: BF143797.D  
Acq: 23 Sep 2025 14:58

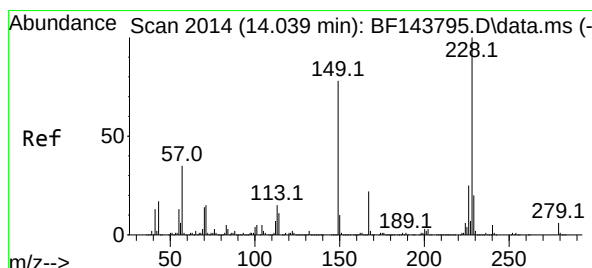
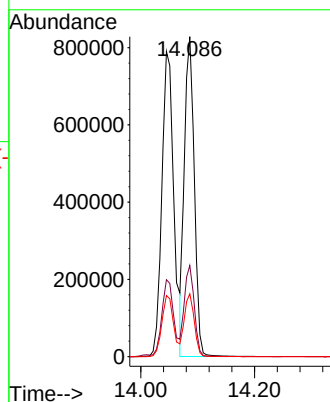
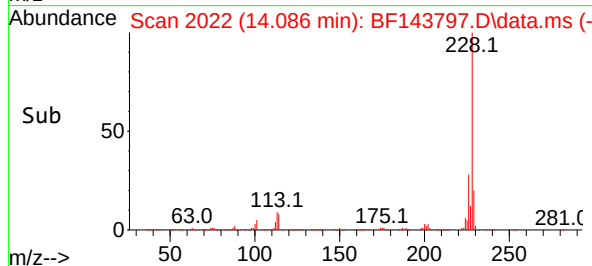
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC060



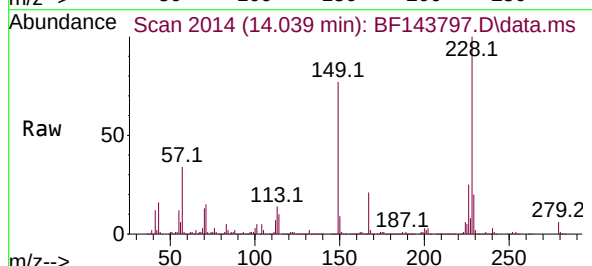
Tgt Ion:228 Resp: 1014385  
Ion Ratio Lower Upper  
228 100  
226 28.5 22.6 33.8  
229 19.6 15.6 23.4

Manual Integrations  
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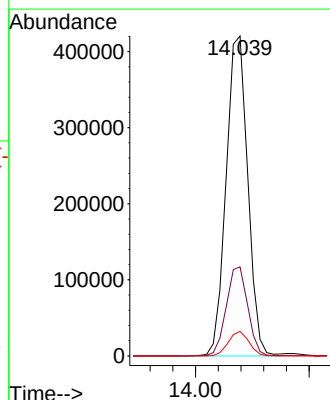
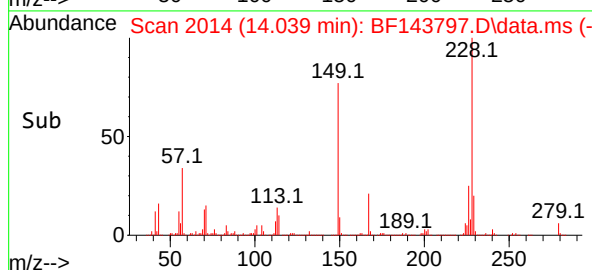
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025

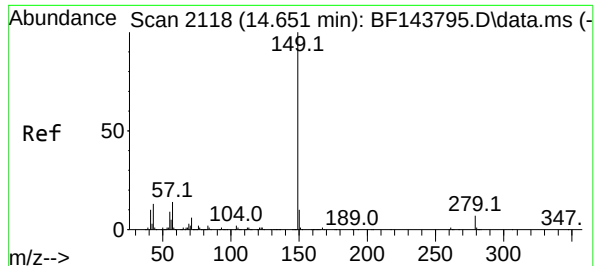


#84  
Bis(2-ethylhexyl)phthalate  
Concen: 62.115 ng  
RT: 14.039 min Scan# 2014  
Delta R.T. 0.000 min  
Lab File: BF143797.D  
Acq: 23 Sep 2025 14:58



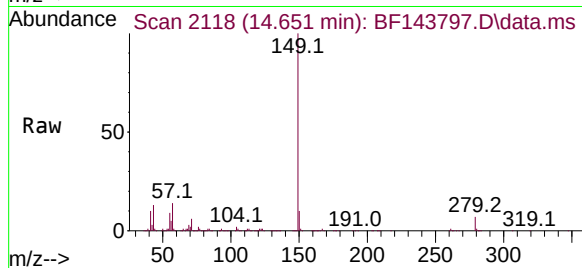
Tgt Ion:149 Resp: 556458  
Ion Ratio Lower Upper  
149 100  
167 27.8 22.2 33.2  
279 7.7 6.0 9.0





#85  
Di-n-octyl phthalate  
Concen: 62.167 ng  
RT: 14.651 min Scan# 2118  
Delta R.T. -0.006 min  
Lab File: BF143797.D  
Acq: 23 Sep 2025 14:58

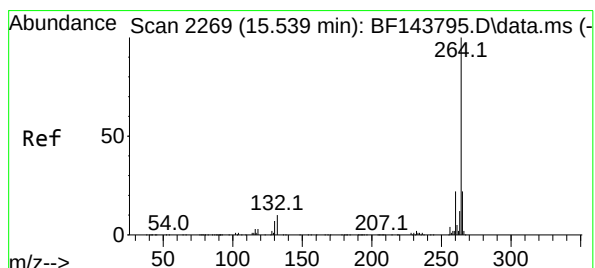
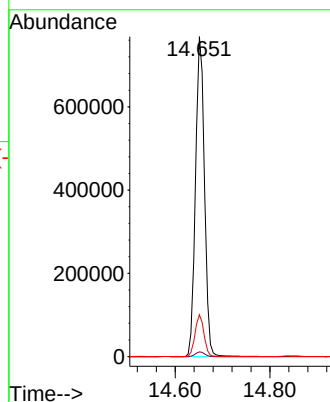
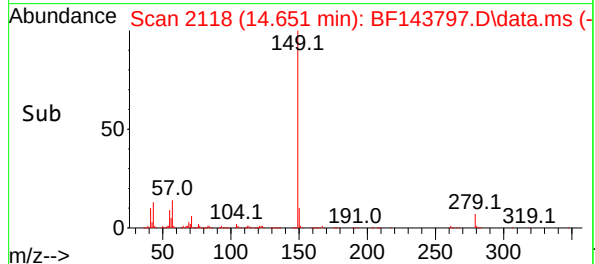
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC060



Tgt Ion:149 Resp: 1010224  
Ion Ratio Lower Upper  
149 100  
167 1.5 1.1 1.7  
43 13.0 10.7 16.1

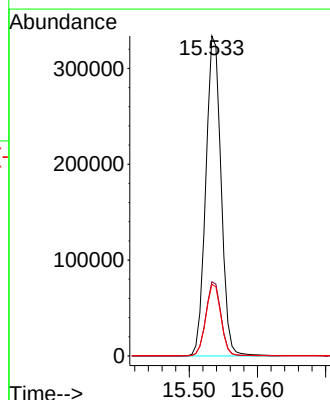
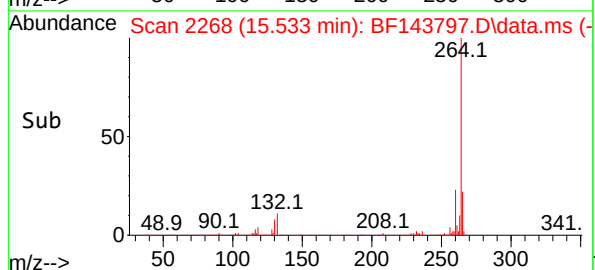
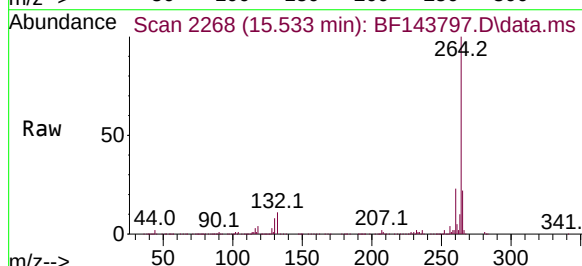
Manual Integrations  
APPROVED

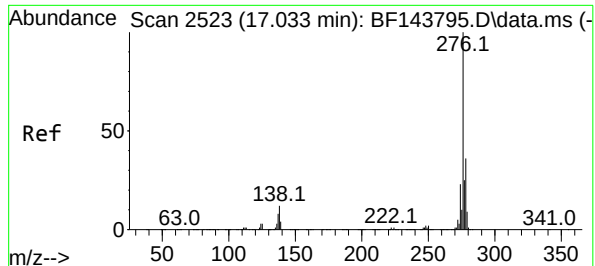
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.533 min Scan# 2268  
Delta R.T. -0.006 min  
Lab File: BF143797.D  
Acq: 23 Sep 2025 14:58

Tgt Ion:264 Resp: 519571  
Ion Ratio Lower Upper  
264 100  
260 23.2 17.9 26.9  
265 22.4 17.7 26.5





#87

Indeno(1,2,3-cd)pyrene

Concen: 61.213 ng

RT: 17.039 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF143797.D

Acq: 23 Sep 2025 14:58

Instrument :

BNA\_F

ClientSampleId :

SSTDICC060

Tgt Ion:276 Resp: 2413125

Ion Ratio Lower Upper

276 100

138 12.8 10.6 15.8

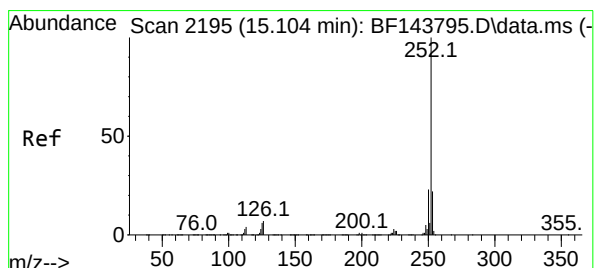
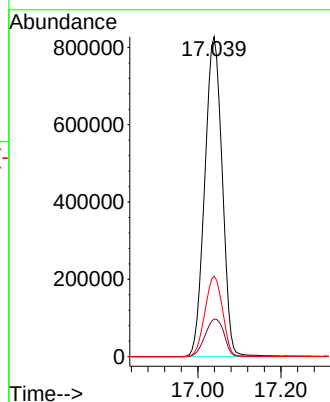
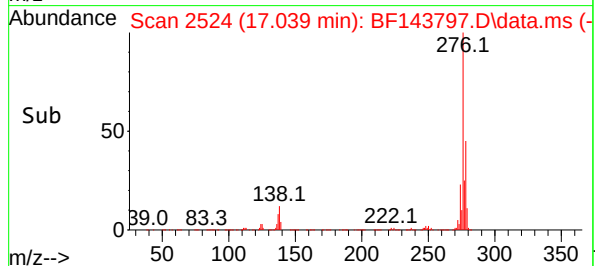
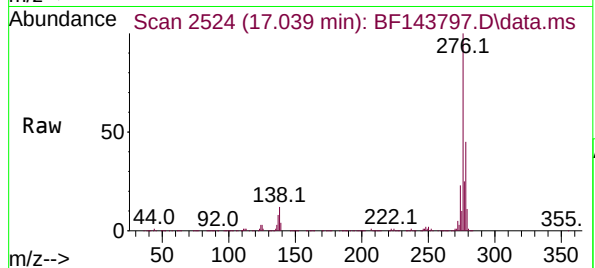
277 25.5 20.7 31.1

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#88

Benzo(b)fluoranthene

Concen: 59.037 ng

RT: 15.104 min Scan# 2195

Delta R.T. 0.000 min

Lab File: BF143797.D

Acq: 23 Sep 2025 14:58

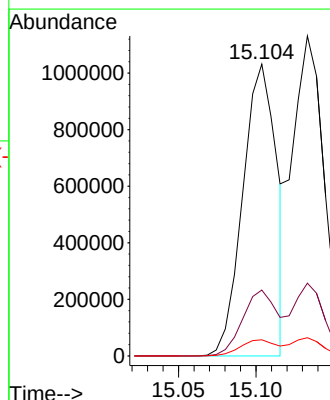
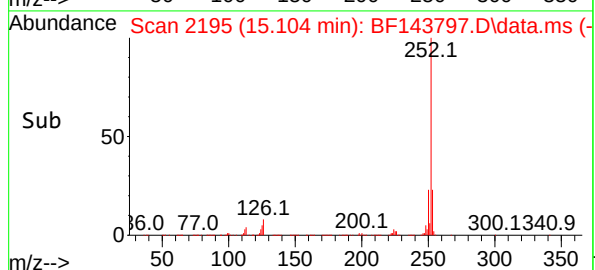
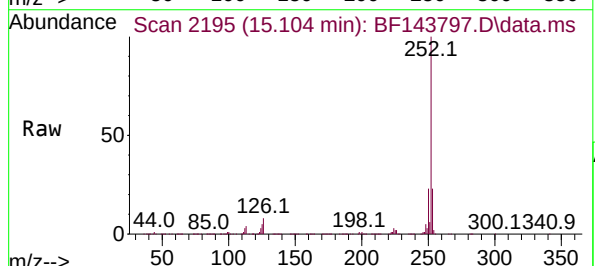
Tgt Ion:252 Resp: 1562058

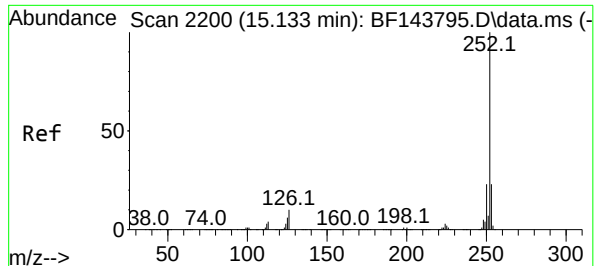
Ion Ratio Lower Upper

252 100

253 22.6 17.8 26.8

125 5.5 4.4 6.6





#89

Benzo(k)fluoranthene

Concen: 60.363 ng

RT: 15.133 min Scan# 2200

Delta R.T. -0.006 min

Lab File: BF143797.D

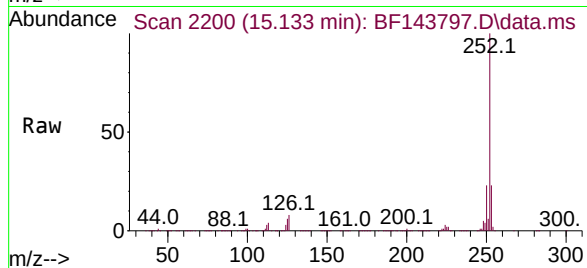
Acq: 23 Sep 2025 14:58

Instrument :

BNA\_F

ClientSampleId :

SSTDICC060



Tgt Ion:252 Resp: 1604602

Ion Ratio Lower Upper

252 100

253 22.7 17.9 26.9

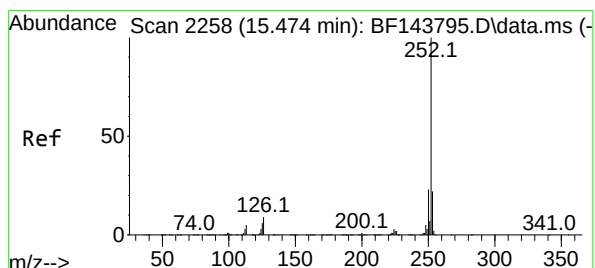
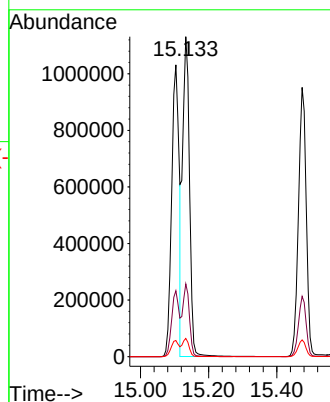
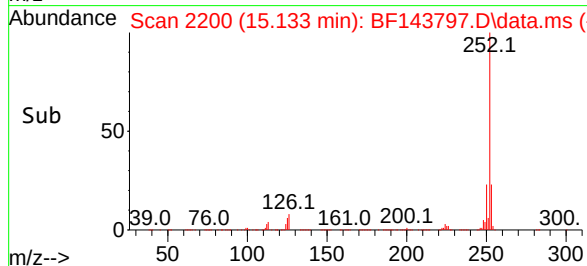
125 5.7 4.6 6.8

Manual Integrations

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Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#90

Benzo(a)pyrene

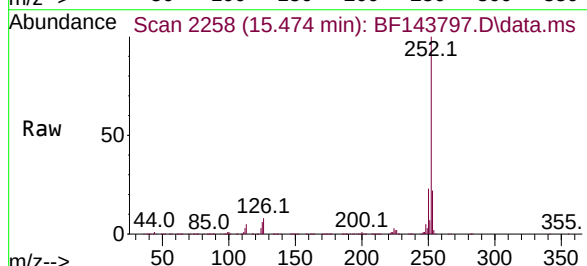
Concen: 60.876 ng

RT: 15.474 min Scan# 2258

Delta R.T. -0.006 min

Lab File: BF143797.D

Acq: 23 Sep 2025 14:58



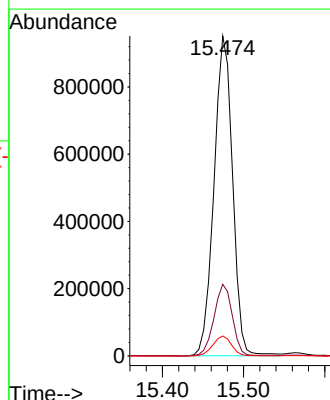
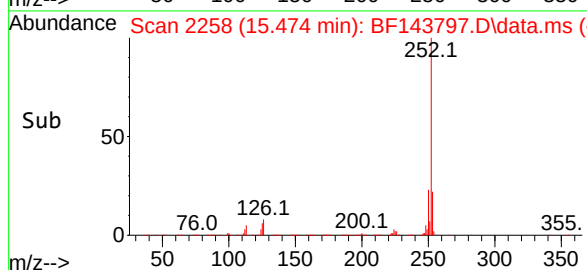
Tgt Ion:252 Resp: 1514049

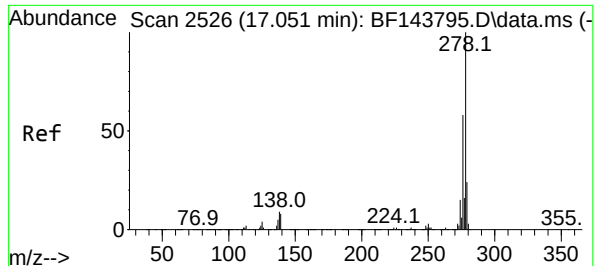
Ion Ratio Lower Upper

252 100

253 22.4 17.6 26.4

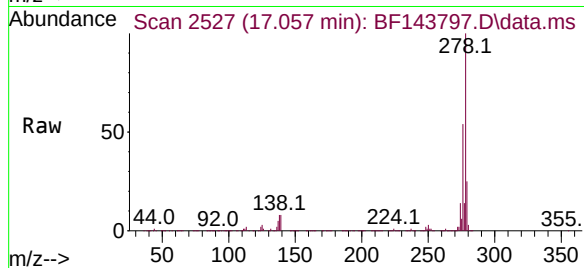
125 6.2 5.0 7.4





#91  
Dibenzo(a,h)anthracene  
Concen: 60.781 ng  
RT: 17.057 min Scan# 2526  
Delta R.T. -0.012 min  
Lab File: BF143797.D  
Acq: 23 Sep 2025 14:58

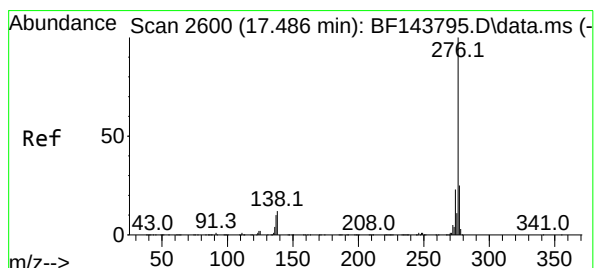
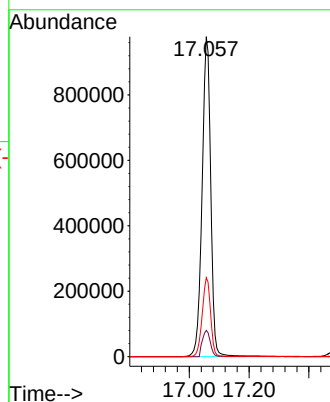
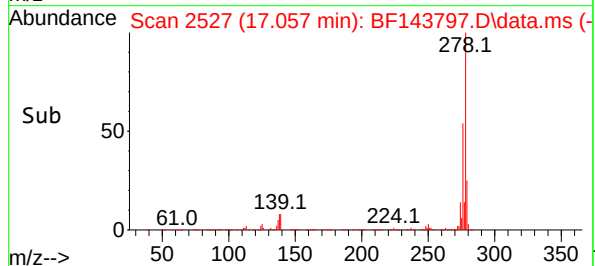
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC060



Tgt Ion:278 Resp: 195978  
Ion Ratio Lower Upper  
278 100  
139 8.2 6.7 10.1  
279 24.7 19.3 28.9

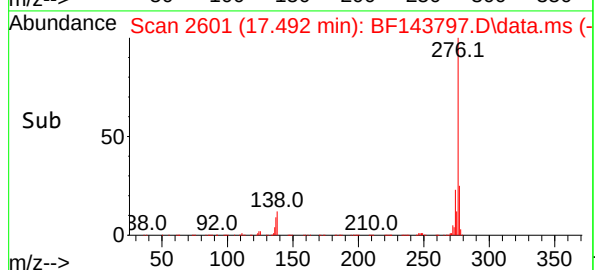
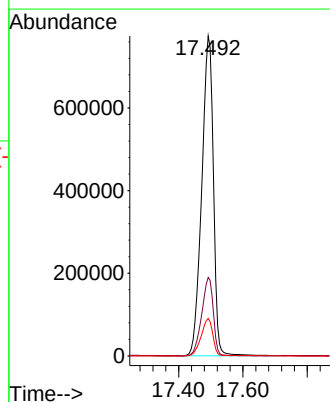
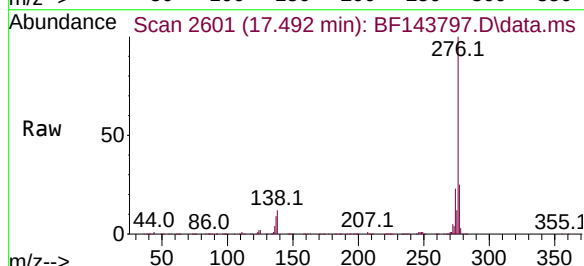
Manual Integrations  
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Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#92  
Benzo(g,h,i)perylene  
Concen: 62.375 ng  
RT: 17.492 min Scan# 2601  
Delta R.T. -0.012 min  
Lab File: BF143797.D  
Acq: 23 Sep 2025 14:58

Tgt Ion:276 Resp: 1938747  
Ion Ratio Lower Upper  
276 100  
277 24.6 19.6 29.4  
138 11.7 9.2 13.8



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF092325\  
 Data File : BF143798.D  
 Acq On : 23 Sep 2025 15:27  
 Operator : RC/JU  
 Sample : SSTDICC080  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SSTDICC080

Manual Integrations  
 APPROVED

Reviewed By :Rahul Chavli 09/24/2025  
 Supervised By :Jagrut Upadhyay 09/24/2025

Quant Time: Sep 23 17:07:08 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF092325.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Sep 23 16:31:21 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| -----                         |        |      |          |         |       |          |
| Internal Standards            |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.887  | 152  | 114150   | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8            | 8.169  | 136  | 403097   | 20.000  | ng    | 0.00     |
| 39) Acenaphthene-d10          | 9.928  | 164  | 191047   | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10          | 11.416 | 188  | 300725   | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12              | 14.063 | 240  | 368976   | 20.000  | ng    | 0.00     |
| 86) Perylene-d12              | 15.539 | 264  | 561861   | 20.000  | ng    | 0.00     |
|                               |        |      |          |         |       |          |
| System Monitoring Compounds   |        |      |          |         |       |          |
| 5) 2-Fluorophenol             | 5.498  | 112  | 1026027  | 144.655 | ng    | 0.00     |
| 7) Phenol-d6                  | 6.510  | 99   | 1156687  | 138.192 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 7.451  | 82   | 991785   | 154.839 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 10.716 | 330  | 406469   | 149.081 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 9.245  | 172  | 1675409  | 129.595 | ng    | 0.00     |
| 79) Terphenyl-d14             | 13.004 | 244  | 2514401  | 133.790 | ng    | 0.00     |
|                               |        |      |          |         |       |          |
| Target Compounds              |        |      |          |         |       | Qvalue   |
| 2) 1,4-Dioxane                | 2.634  | 88   | 263600   | 78.385  | ng    | 99       |
| 3) Pyridine                   | 3.399  | 79   | 703509   | 77.500  | ng    | 99       |
| 4) n-Nitrosodimethylamine     | 3.357  | 42   | 358564   | 78.776  | ng    | 99       |
| 6) Aniline                    | 6.551  | 93   | 833840   | 70.770  | ng    | 99       |
| 8) 2-Chlorophenol             | 6.669  | 128  | 523096   | 72.726  | ng    | 96       |
| 9) Benzaldehyde               | 6.439  | 77   | 512709   | 72.121  | ng    | 100      |
| 10) Phenol                    | 6.528  | 94   | 668000m  | 70.793  | ng    |          |
| 11) bis(2-Chloroethyl)ether   | 6.622  | 93   | 528015   | 71.386  | ng    | 97       |
| 12) 1,3-Dichlorobenzene       | 6.828  | 146  | 592035   | 70.893  | ng    | 99       |
| 13) 1,4-Dichlorobenzene       | 6.904  | 146  | 587436   | 70.485  | ng    | 100      |
| 14) 1,2-Dichlorobenzene       | 7.057  | 146  | 554647   | 70.268  | ng    | 99       |
| 15) Benzyl Alcohol            | 7.028  | 79   | 427439   | 72.870  | ng    | 99       |
| 16) 2,2'-oxybis(1-Chloropr... | 7.157  | 45   | 1250239  | 71.282  | ng    | 100      |
| 17) 2-Methylphenol            | 7.134  | 107  | 401874   | 72.168  | ng    | 98       |
| 18) Hexachloroethane          | 7.404  | 117  | 213691   | 72.909  | ng    | 96       |
| 19) n-Nitroso-di-n-propyla... | 7.304  | 70   | 349063   | 66.866  | ng    | 99       |
| 20) 3+4-Methylphenols         | 7.287  | 107  | 466916   | 68.853  | ng    | 98       |
| 22) Acetophenone              | 7.298  | 105  | 601642   | 67.955  | ng    | 97       |
| 24) Nitrobenzene              | 7.475  | 77   | 552229   | 75.655  | ng    | 97       |
| 25) Isophorone                | 7.710  | 82   | 926928   | 72.232  | ng    | 99       |
| 26) 2-Nitrophenol             | 7.786  | 139  | 241928   | 78.881  | ng    | 95       |
| 27) 2,4-Dimethylphenol        | 7.816  | 122  | 420564   | 73.324  | ng    | 99       |
| 28) bis(2-Chloroethoxy)met... | 7.916  | 93   | 579809   | 69.544  | ng    | 99       |
| 29) 2,4-Dichlorophenol        | 8.022  | 162  | 418769   | 74.200  | ng    | 98       |
| 30) 1,2,4-Trichlorobenzene    | 8.110  | 180  | 426294   | 72.784  | ng    | 98       |
| 31) Naphthalene               | 8.192  | 128  | 1331192  | 68.985  | ng    | 99       |
| 32) Benzoic acid              | 7.922  | 122  | 259578   | 93.800  | ng    | 96       |
| 33) 4-Chloroaniline           | 8.239  | 127  | 475524   | 70.124  | ng    | 99       |
| 34) Hexachlorobutadiene       | 8.310  | 225  | 320435   | 73.390  | ng    | 99       |
| 35) Caprolactam               | 8.610  | 113  | 112528   | 78.007  | ng    | 99       |
| 36) 4-Chloro-3-methylphenol   | 8.710  | 107  | 383212   | 72.398  | ng    | 98       |
| 37) 2-Methylnaphthalene       | 8.881  | 142  | 839849   | 68.255  | ng    | 100      |
| 38) 1-Methylnaphthalene       | 8.981  | 142  | 799000   | 67.842  | ng    | 98       |
| 40) 1,2,4,5-Tetrachloroben... | 9.051  | 216  | 419788   | 72.811  | ng    | 99       |
| 41) Hexachlorocyclopentadiene | 9.039  | 237  | 295770   | 80.945  | ng    | 99       |
| 43) 2,4,6-Trichlorophenol     | 9.157  | 196  | 278988   | 77.279  | ng    | 99       |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF092325\  
 Data File : BF143798.D  
 Acq On : 23 Sep 2025 15:27  
 Operator : RC/JU  
 Sample : SSTDICC080  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SSTDICC080

Manual Integrations  
 APPROVED

Reviewed By :Rahul Chavli 09/24/2025  
 Supervised By :Jagrut Upadhyay 09/24/2025

Quant Time: Sep 23 17:07:08 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF092325.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Sep 23 16:31:21 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 44) 2,4,5-Trichlorophenol     | 9.192  | 196  | 291440   | 77.179 | ng    | 99       |
| 46) 1,1'-Biphenyl             | 9.345  | 154  | 969811   | 70.127 | ng    | 99       |
| 47) 2-Chloronaphthalene       | 9.375  | 162  | 792043   | 71.150 | ng    | 99       |
| 48) 2-Nitroaniline            | 9.463  | 65   | 294783   | 87.616 | ng    | 97       |
| 49) Acenaphthylene            | 9.786  | 152  | 1100520  | 71.813 | ng    | 99       |
| 50) Dimethylphthalate         | 9.639  | 163  | 857631   | 73.652 | ng    | 100      |
| 51) 2,6-Dinitrotoluene        | 9.704  | 165  | 168866   | 88.265 | ng    | 96       |
| 52) Acenaphthene              | 9.963  | 154  | 727931   | 72.181 | ng    | 98       |
| 53) 3-Nitroaniline            | 9.875  | 138  | 201936   | 87.079 | ng    | 99       |
| 54) 2,4-Dinitrophenol         | 9.975  | 184  | 64545    | 79.097 | ng    | 91       |
| 55) Dibenzofuran              | 10.133 | 168  | 1015631  | 71.219 | ng    | 100      |
| 56) 4-Nitrophenol             | 10.022 | 139  | 160308   | 85.785 | ng    | 96       |
| 57) 2,4-Dinitrotoluene        | 10.110 | 165  | 229035   | 78.669 | ng    | 99       |
| 58) Fluorene                  | 10.475 | 166  | 730945   | 68.947 | ng    | 100      |
| 59) 2,3,4,6-Tetrachlorophenol | 10.245 | 232  | 269005   | 83.157 | ng    | 98       |
| 60) Diethylphthalate          | 10.345 | 149  | 814823   | 74.753 | ng    | 99       |
| 61) 4-Chlorophenyl-phenyle... | 10.469 | 204  | 384933   | 71.259 | ng    | 97       |
| 62) 4-Nitroaniline            | 10.492 | 138  | 195008   | 89.434 | ng    | 99       |
| 63) Azobenzene                | 10.627 | 77   | 841633   | 73.264 | ng    | 99       |
| 65) 4,6-Dinitro-2-methylph... | 10.516 | 198  | 101519   | 78.431 | ng    | 94       |
| 66) n-Nitrosodiphenylamine    | 10.586 | 169  | 714258   | 72.221 | ng    | 99       |
| 67) 4-Bromophenyl-phenylether | 10.957 | 248  | 389253   | 75.954 | ng    | 98       |
| 68) Hexachlorobenzene         | 11.022 | 284  | 525440   | 74.398 | ng    | 99       |
| 69) Atrazine                  | 11.110 | 200  | 219693   | 76.710 | ng    | 99       |
| 70) Pentachlorophenol         | 11.216 | 266  | 311232   | 88.529 | ng    | 99       |
| 71) Phenanthrene              | 11.439 | 178  | 1108268  | 71.783 | ng    | 99       |
| 72) Anthracene                | 11.492 | 178  | 1136970  | 73.416 | ng    | 99       |
| 73) Carbazole                 | 11.645 | 167  | 1018624  | 75.229 | ng    | 100      |
| 74) Di-n-butylphthalate       | 11.974 | 149  | 1239778  | 79.613 | ng    | 100      |
| 75) Fluoranthene              | 12.627 | 202  | 1217249  | 78.389 | ng    | 99       |
| 77) Benzidine                 | 12.751 | 184  | 600496   | 66.788 | ng    | 100      |
| 78) Pyrene                    | 12.857 | 202  | 1279855  | 70.553 | ng    | 99       |
| 80) Butylbenzylphthalate      | 13.480 | 149  | 528060   | 84.139 | ng    | 97       |
| 81) Benzo(a)anthracene        | 14.051 | 228  | 1467968  | 74.057 | ng    | 99       |
| 82) 3,3'-Dichlorobenzidine    | 14.010 | 252  | 687295   | 80.036 | ng    | 99       |
| 83) Chrysene                  | 14.086 | 228  | 1352077  | 75.382 | ng    | 99       |
| 84) Bis(2-ethylhexyl)phtha... | 14.039 | 149  | 726710   | 78.996 | ng    | 100      |
| 85) Di-n-octyl phthalate      | 14.657 | 149  | 1372332  | 82.239 | ng    | 100      |
| 87) Indeno(1,2,3-cd)pyrene    | 17.045 | 276  | 3299429  | 77.396 | ng    | 99       |
| 88) Benzo(b)fluoranthene      | 15.104 | 252  | 2247670  | 78.555 | ng    | 98       |
| 89) Benzo(k)fluoranthene      | 15.139 | 252  | 2033980  | 70.756 | ng    | 99       |
| 90) Benzo(a)pyrene            | 15.480 | 252  | 2063204  | 76.712 | ng    | 99       |
| 91) Dibenzo(a,h)anthracene    | 17.068 | 278  | 2621312  | 75.178 | ng    | 99       |
| 92) Benzo(g,h,i)perylene      | 17.503 | 276  | 2625358  | 78.108 | ng    | 100      |

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

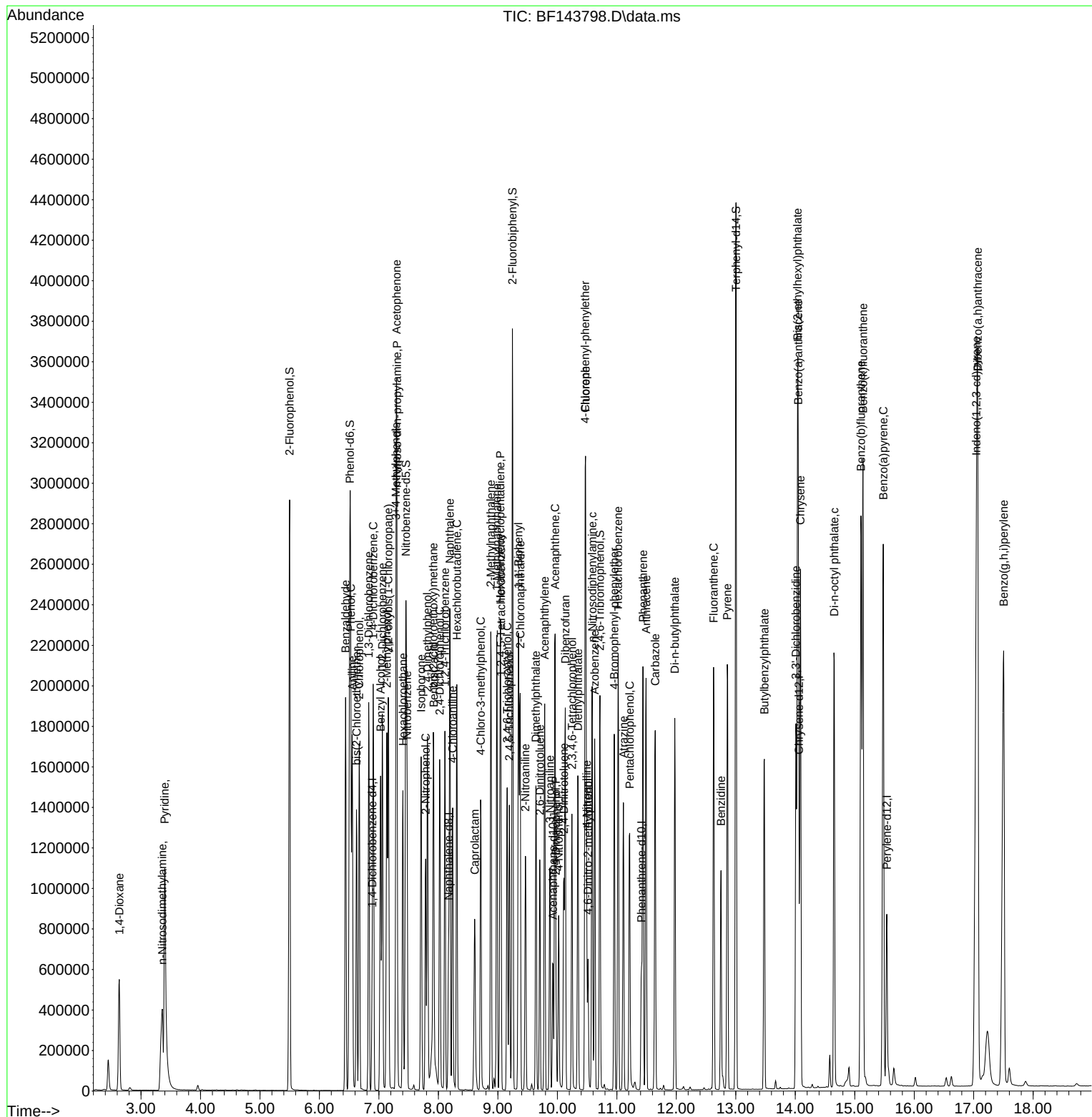
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 Acq On : 23 Sep 2025 15:27  
 Operator : RC/JU  
 Sample : SSTDICC080  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SSTDICC080

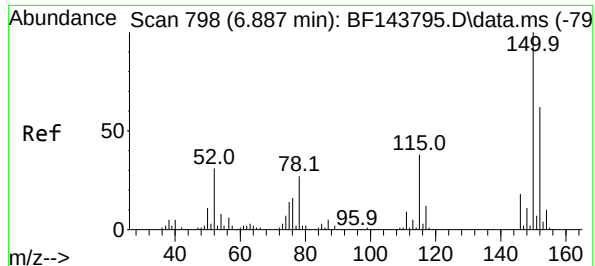
Quant Time: Sep 23 17:07:08 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF092325.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Sep 23 16:31:21 2025  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Rahul Chavli 09/24/2025  
 Supervised By :Jagrut Upadhyay 09/24/2025

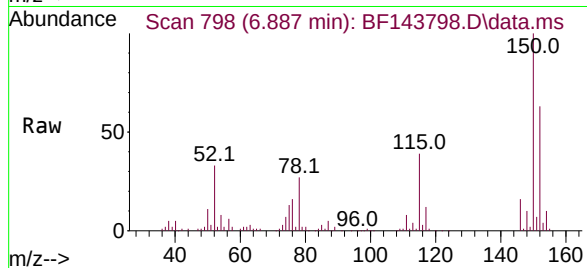






#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.887 min Scan# 79  
Delta R.T. -0.000 min  
Lab File: BF143798.D  
Acq: 23 Sep 2025 15:27

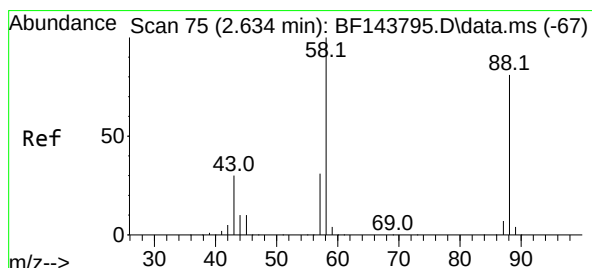
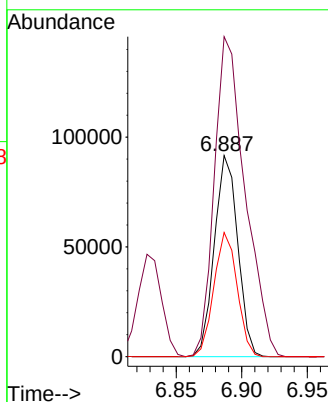
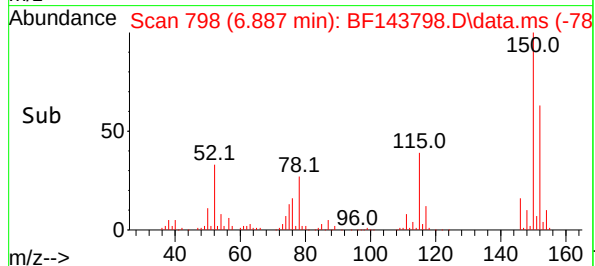
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC080



Tgt Ion:152 Resp: 114150  
Ion Ratio Lower Upper  
152 100  
150 159.2 129.6 194.4  
115 61.8 49.0 73.4

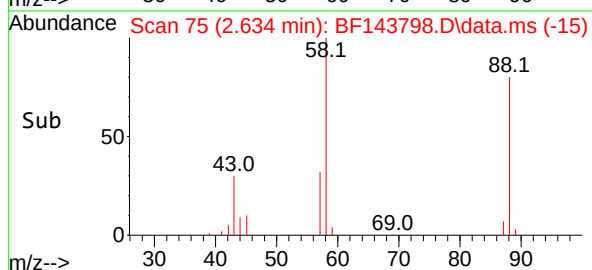
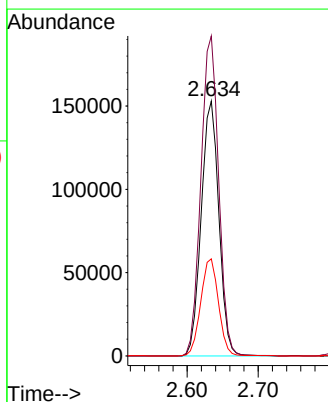
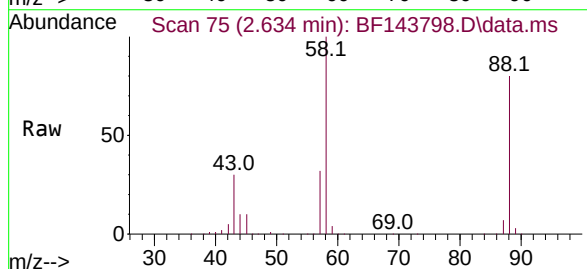
Manual Integrations  
APPROVED

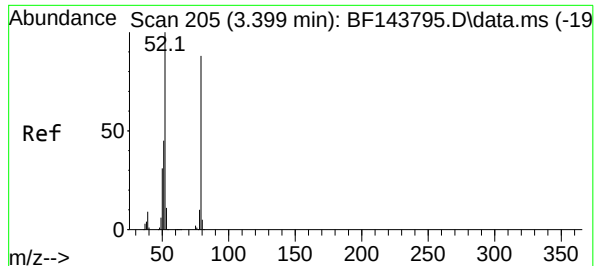
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#2  
1,4-Dioxane  
Concen: 78.385 ng  
RT: 2.634 min Scan# 75  
Delta R.T. 0.000 min  
Lab File: BF143798.D  
Acq: 23 Sep 2025 15:27

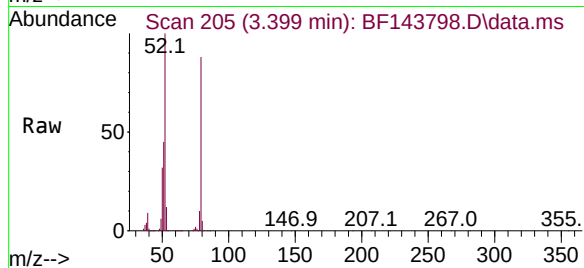
Tgt Ion: 88 Resp: 263600  
Ion Ratio Lower Upper  
88 100  
58 126.1 99.4 149.2  
43 38.3 30.6 45.8





#3  
Pyridine  
Concen: 77.500 ng  
RT: 3.399 min Scan# 205  
Delta R.T. 0.000 min  
Lab File: BF143798.D  
Acq: 23 Sep 2025 15:27

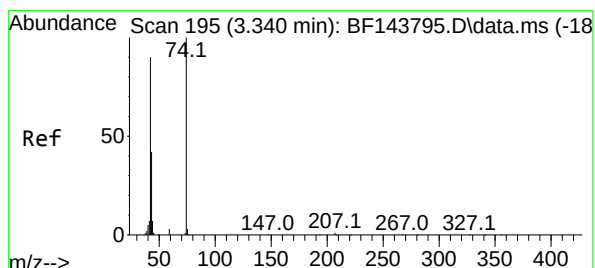
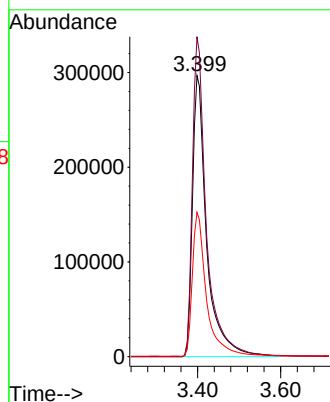
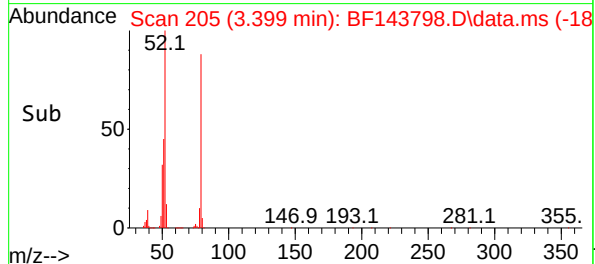
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC080



Tgt Ion: 79 Resp: 703509  
Ion Ratio Lower Upper  
79 100  
52 113.9 90.5 135.7  
51 51.3 40.6 61.0

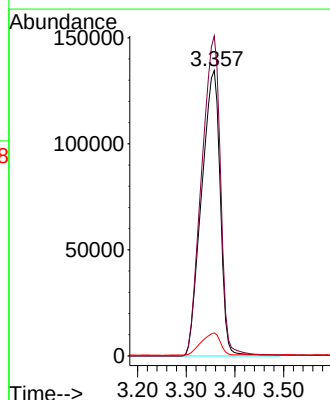
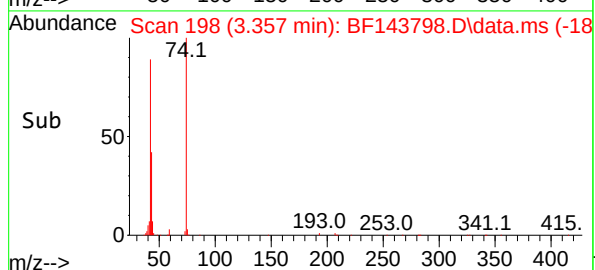
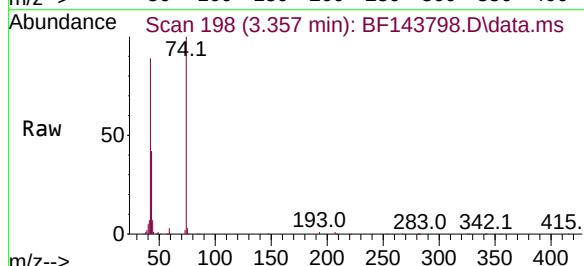
Manual Integrations  
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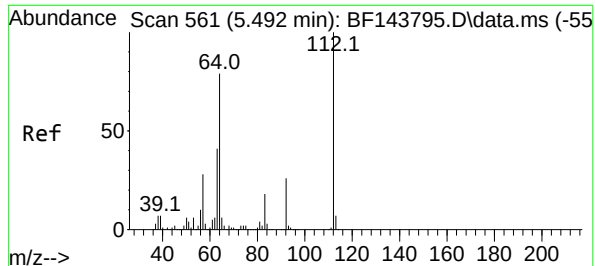
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#4  
n-Nitrosodimethylamine  
Concen: 78.776 ng  
RT: 3.357 min Scan# 198  
Delta R.T. 0.000 min  
Lab File: BF143798.D  
Acq: 23 Sep 2025 15:27

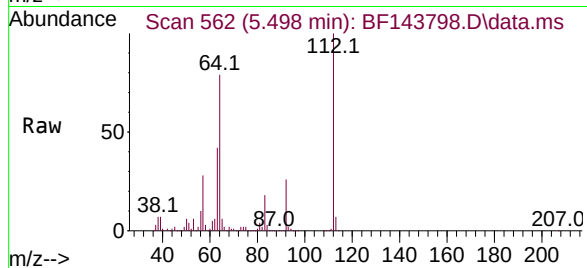
Tgt Ion: 42 Resp: 358564  
Ion Ratio Lower Upper  
42 100  
74 112.1 89.1 133.7  
44 8.1 6.4 9.6





#5  
2-Fluorophenol  
Concen: 144.655 ng  
RT: 5.498 min Scan# 50  
Delta R.T. 0.000 min  
Lab File: BF143798.D  
Acq: 23 Sep 2025 15:27

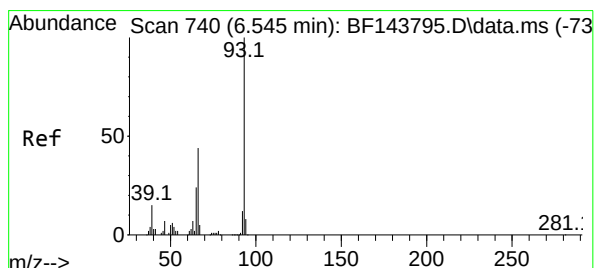
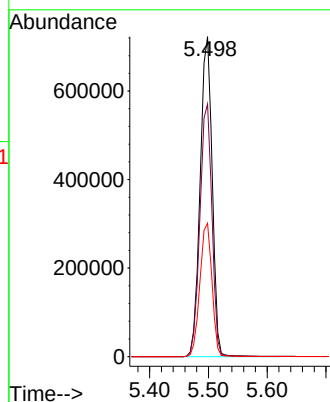
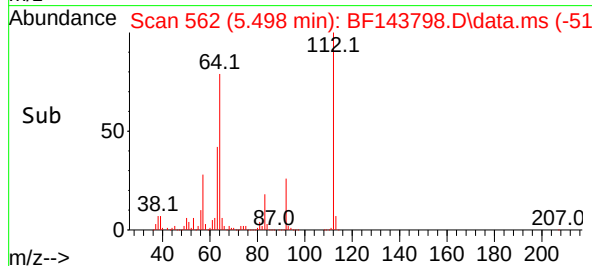
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC080



Tgt Ion: 112 Resp: 102602  
Ion Ratio Lower Upper  
112 100  
64 78.9 63.0 94.4  
63 41.7 32.6 49.0

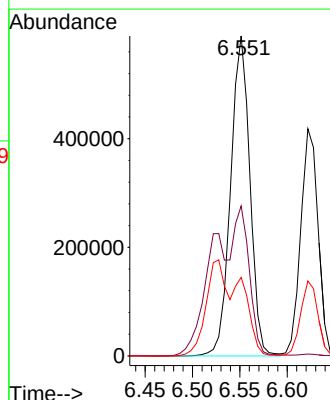
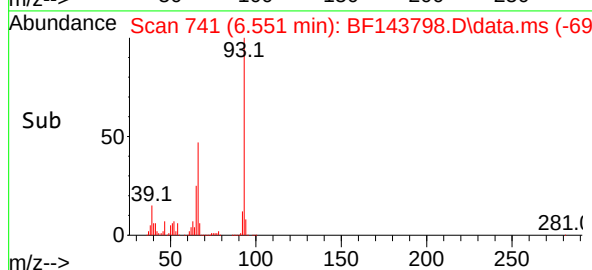
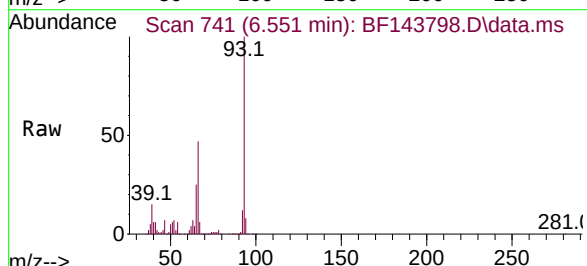
Manual Integrations  
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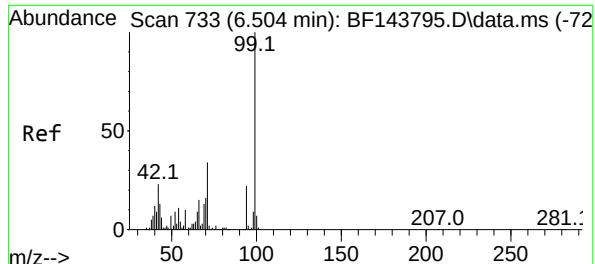
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#6  
Aniline  
Concen: 70.770 ng  
RT: 6.551 min Scan# 741  
Delta R.T. 0.000 min  
Lab File: BF143798.D  
Acq: 23 Sep 2025 15:27

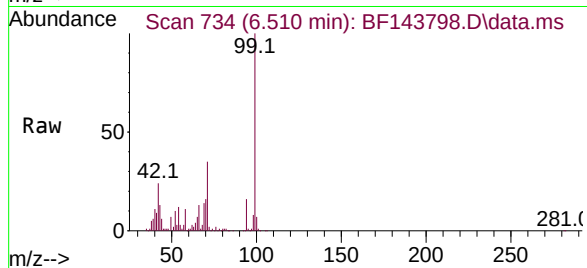
Tgt Ion: 93 Resp: 833840  
Ion Ratio Lower Upper  
93 100  
66 46.9 37.1 55.7  
65 24.5 19.4 29.0





#7  
Phenol-d6  
Concen: 138.192 ng  
RT: 6.510 min Scan# 734  
Delta R.T. 0.000 min  
Lab File: BF143798.D  
Acq: 23 Sep 2025 15:27

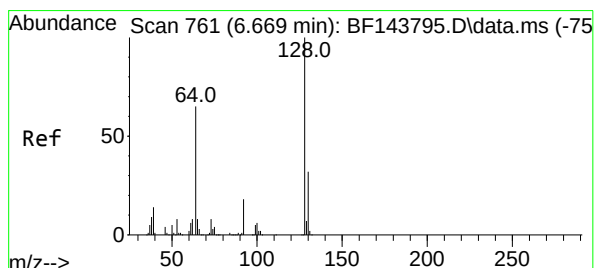
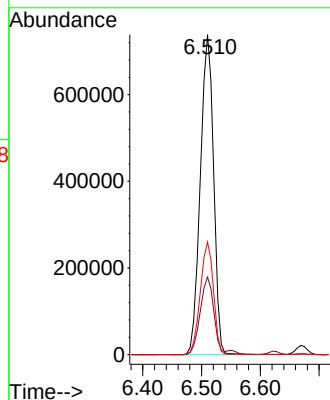
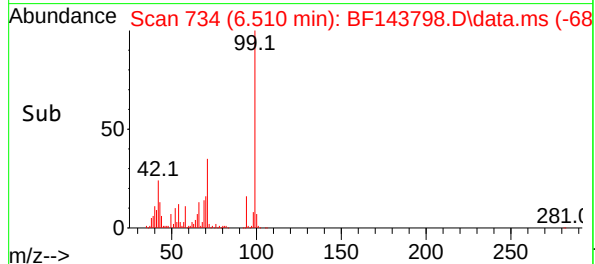
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC080



Tgt Ion: 99 Resp: 115668  
Ion Ratio Lower Upper  
99 100  
42 24.2 18.6 28.0  
71 35.2 27.0 40.4

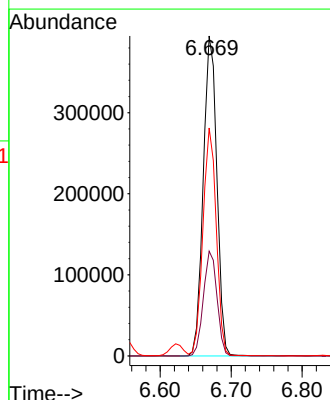
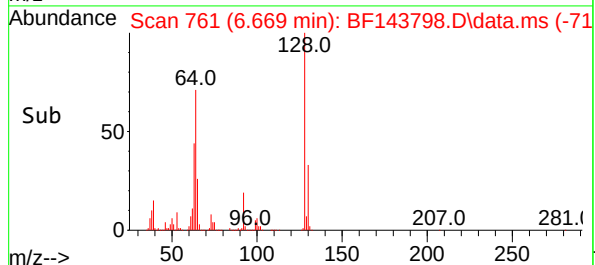
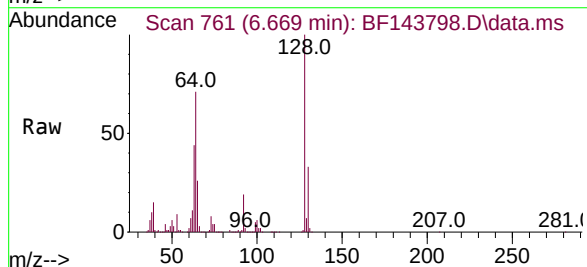
Manual Integrations  
APPROVED

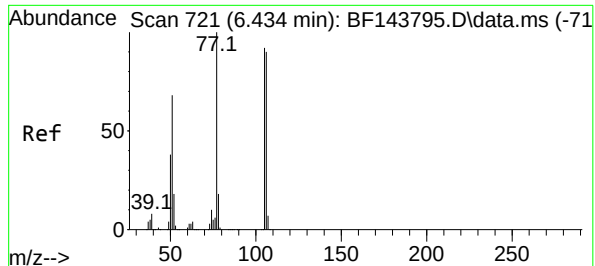
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#8  
2-Chlorophenol  
Concen: 72.726 ng  
RT: 6.669 min Scan# 761  
Delta R.T. 0.000 min  
Lab File: BF143798.D  
Acq: 23 Sep 2025 15:27

Tgt Ion:128 Resp: 523096  
Ion Ratio Lower Upper  
128 100  
130 32.7 12.2 52.2  
64 71.2 46.5 86.5





#9

Benzaldehyde

Concen: 72.121 ng

RT: 6.439 min Scan# 721

Delta R.T. 0.000 min

Lab File: BF143798.D

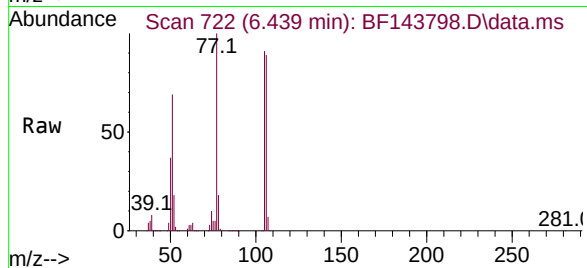
Acq: 23 Sep 2025 15:27

Instrument :

BNA\_F

ClientSampleId :

SSTDICC080



Tgt Ion: 77 Resp: 512709

Ion Ratio Lower Upper

77 100

105 91.4 71.8 111.8

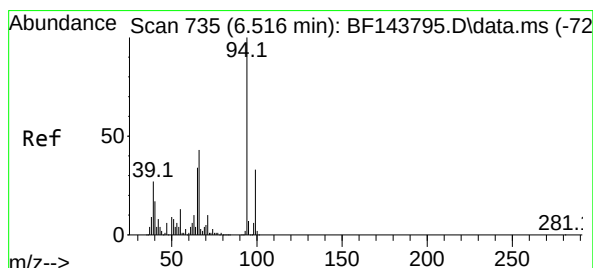
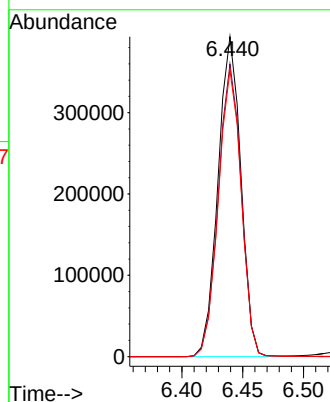
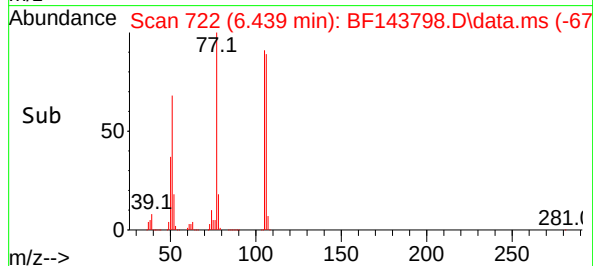
106 89.5 69.8 109.8

Manual Integrations

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Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#10

Phenol

Concen: 70.793 ng m

RT: 6.528 min Scan# 737

Delta R.T. 0.000 min

Lab File: BF143798.D

Acq: 23 Sep 2025 15:27

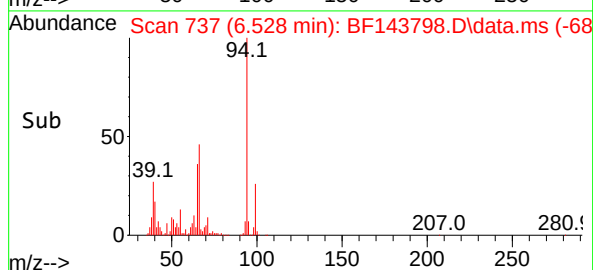
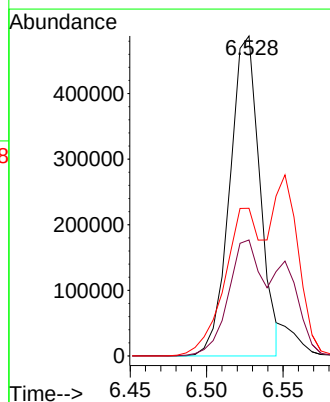
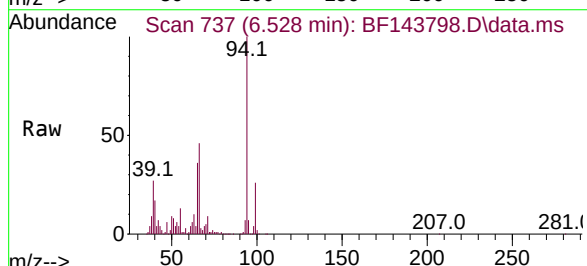
Tgt Ion: 94 Resp: 668000

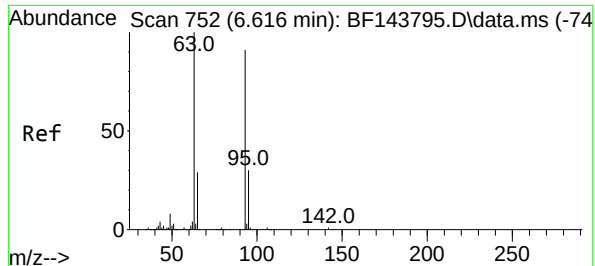
Ion Ratio Lower Upper

94 100

65 36.2 14.2 54.2

66 46.1 24.1 64.1





#11

bis(2-Chloroethyl)ether

Concen: 71.386 ng

RT: 6.622 min Scan# 753

Delta R.T. 0.000 min

Lab File: BF143798.D

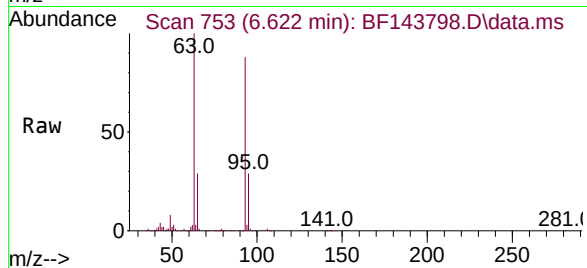
Acq: 23 Sep 2025 15:27

Instrument :

BNA\_F

ClientSampleId :

SSTDICC080



Tgt Ion: 93 Resp: 528015

Ion Ratio Lower Upper

93 100

63 113.8 89.2 129.2

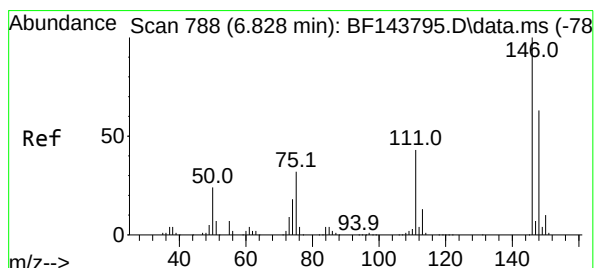
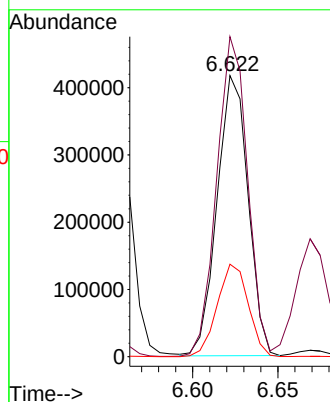
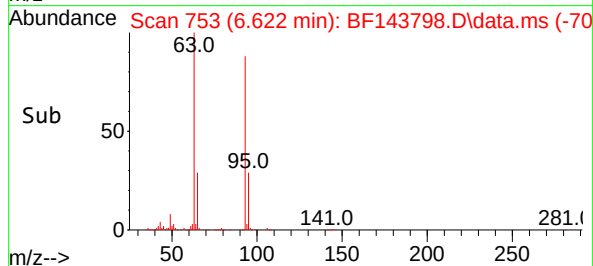
95 32.9 12.9 52.9

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#12

1,3-Dichlorobenzene

Concen: 70.893 ng

RT: 6.828 min Scan# 788

Delta R.T. 0.000 min

Lab File: BF143798.D

Acq: 23 Sep 2025 15:27

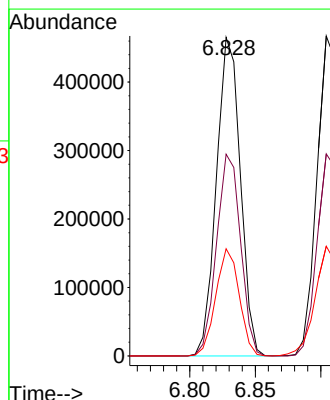
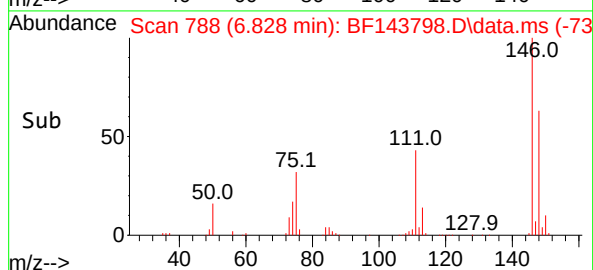
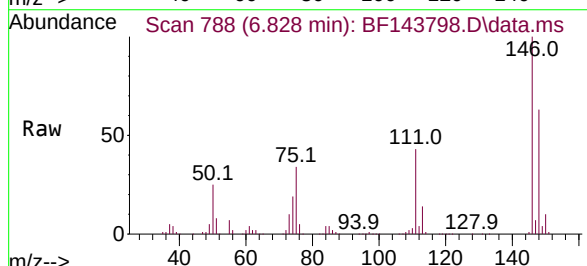
Tgt Ion:146 Resp: 592035

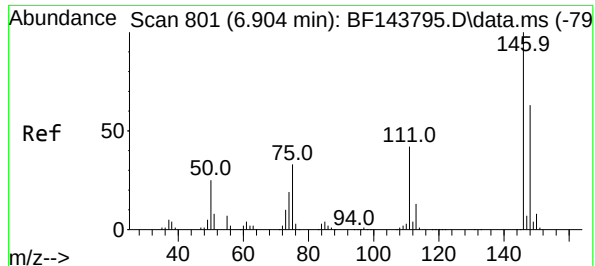
Ion Ratio Lower Upper

146 100

148 63.3 50.4 75.6

75 33.6 25.6 38.4





#13

1,4-Dichlorobenzene

Concen: 70.485 ng

RT: 6.904 min Scan# 801

Delta R.T. 0.000 min

Lab File: BF143798.D

Acq: 23 Sep 2025 15:27

Instrument :

BNA\_F

ClientSampleId :

SSTDICC080

Tgt Ion:146 Resp: 587436

Ion Ratio Lower Upper

146 100

148 63.1 50.7 76.1

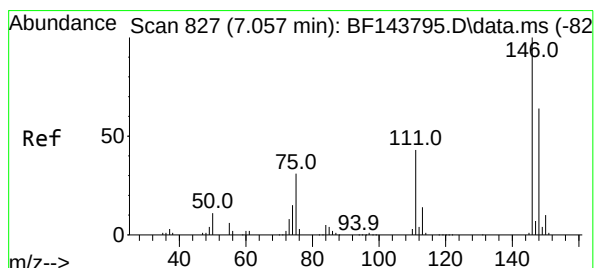
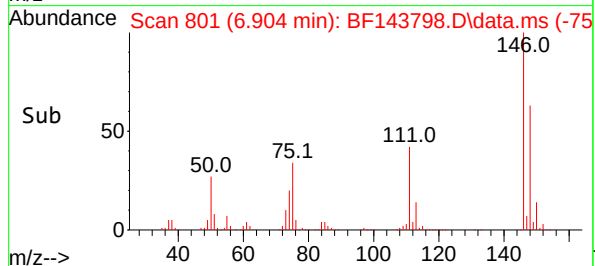
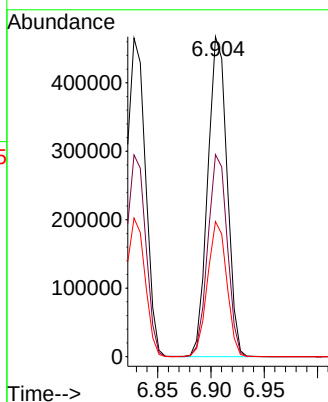
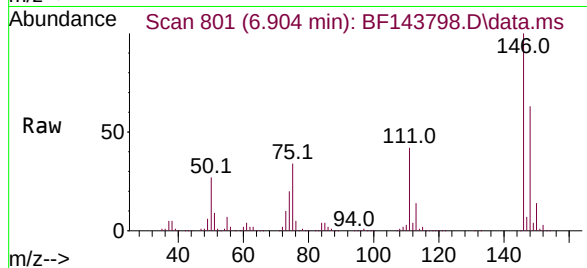
111 42.2 33.4 50.2

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#14

1,2-Dichlorobenzene

Concen: 70.268 ng

RT: 7.057 min Scan# 827

Delta R.T. 0.000 min

Lab File: BF143798.D

Acq: 23 Sep 2025 15:27

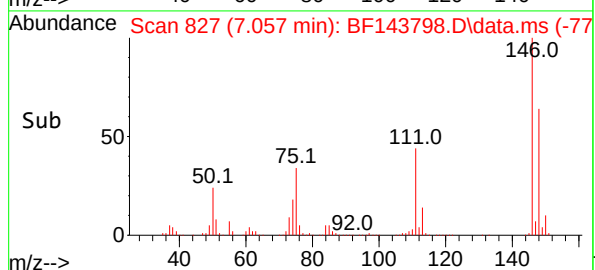
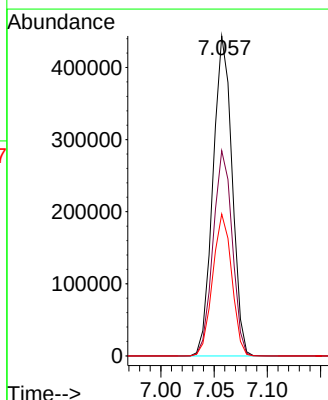
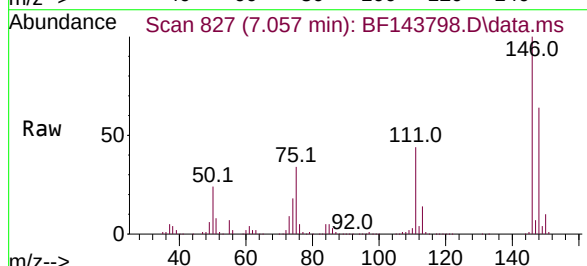
Tgt Ion:146 Resp: 554647

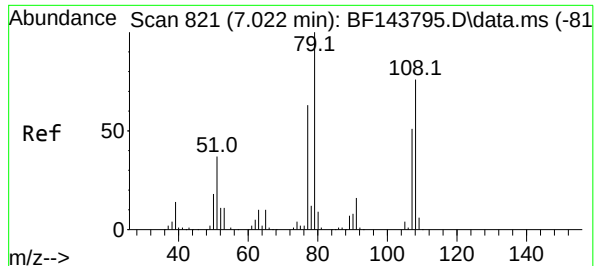
Ion Ratio Lower Upper

146 100

148 64.1 51.1 76.7

111 44.3 34.3 51.5





#15

Benzyl Alcohol

Concen: 72.870 ng

RT: 7.028 min Scan# 821

Delta R.T. -0.000 min

Lab File: BF143798.D

Acq: 23 Sep 2025 15:27

Instrument :

BNA\_F

ClientSampleId :

SSTDICC080

Tgt Ion: 79 Resp: 427439

Ion Ratio Lower Upper

79 100

108 76.4 60.5 90.7

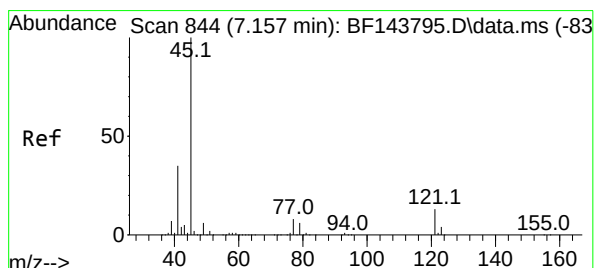
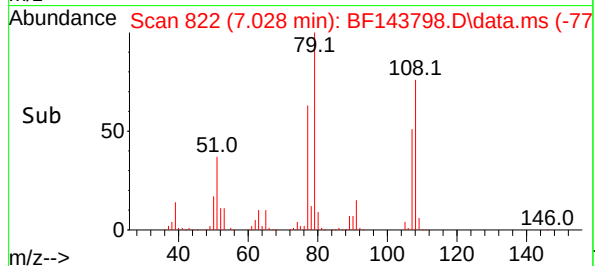
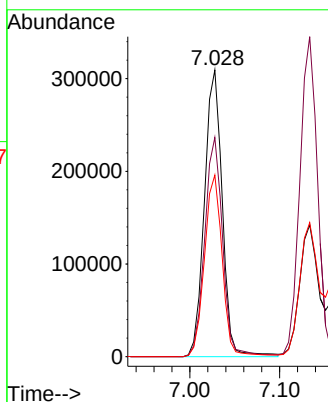
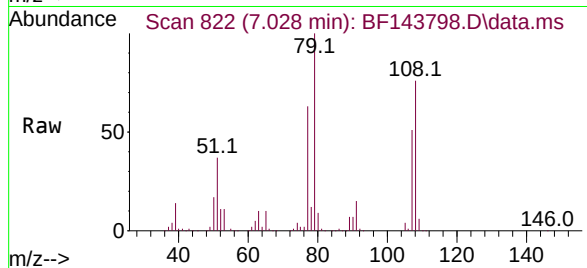
77 63.3 50.3 75.5

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#16

2,2'-oxybis(1-Chloropropane)

Concen: 71.282 ng

RT: 7.157 min Scan# 844

Delta R.T. 0.000 min

Lab File: BF143798.D

Acq: 23 Sep 2025 15:27

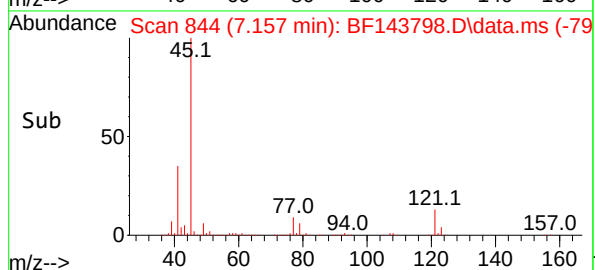
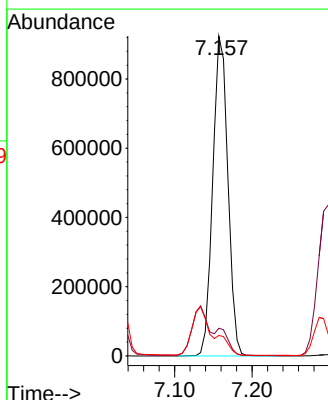
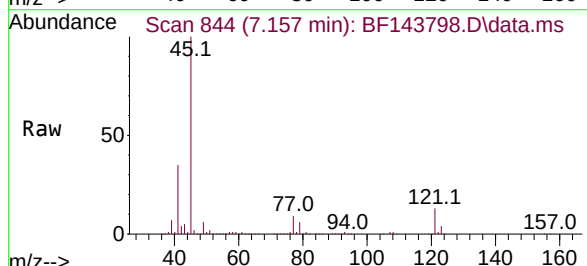
Tgt Ion: 45 Resp: 1250239

Ion Ratio Lower Upper

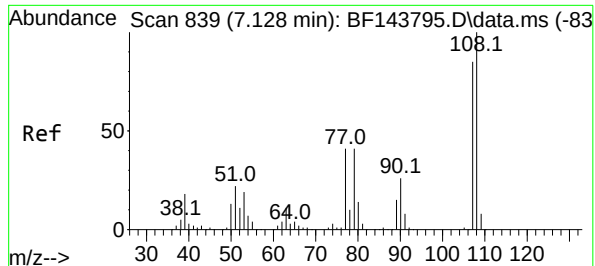
45 100

77 8.6 0.0 28.5

79 6.4 0.0 26.3

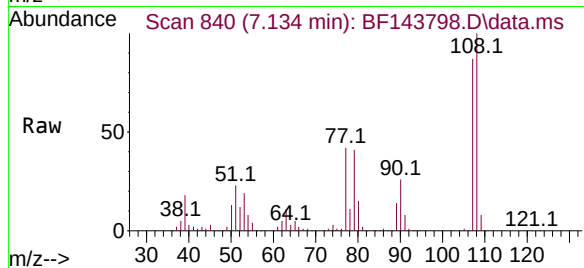






#17  
2-Methylphenol  
Concen: 72.168 ng  
RT: 7.134 min Scan# 840  
Delta R.T. -0.000 min  
Lab File: BF143798.D  
Acq: 23 Sep 2025 15:27

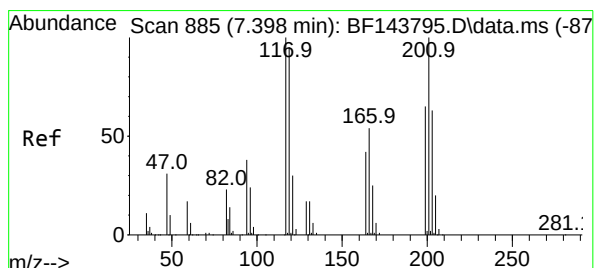
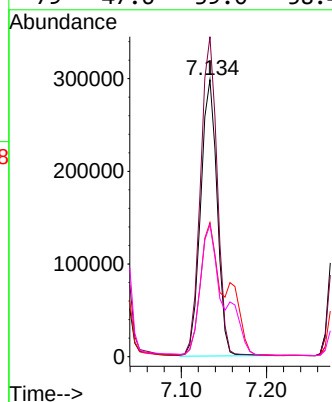
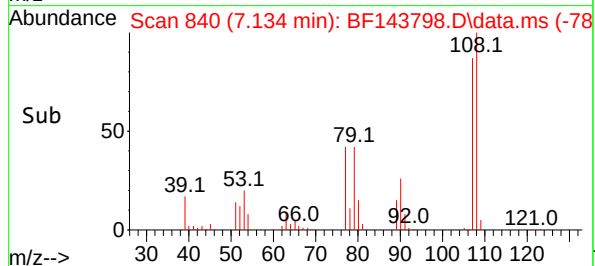
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC080



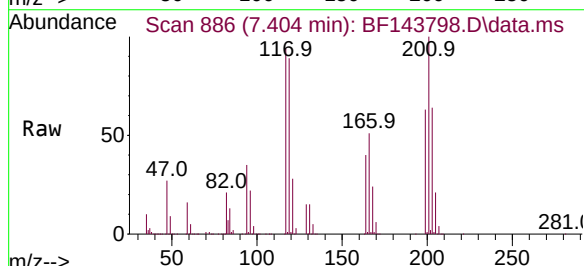
Tgt Ion:107 Resp: 401874  
Ion Ratio Lower Upper  
107 100  
108 115.6 94.2 141.4  
77 48.4 38.6 58.0  
79 47.6 39.0 58.4

Manual Integrations  
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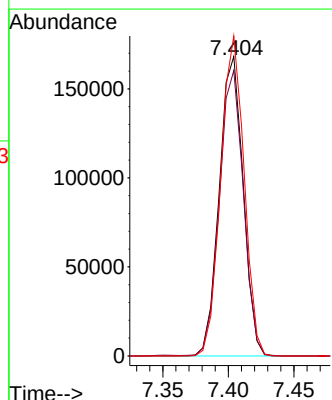
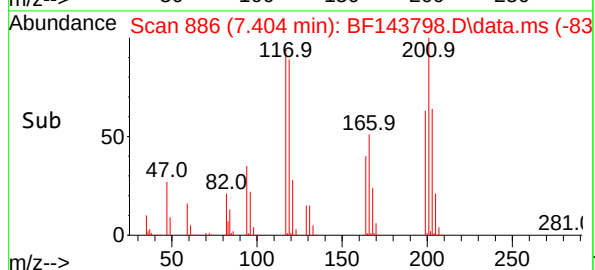
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025

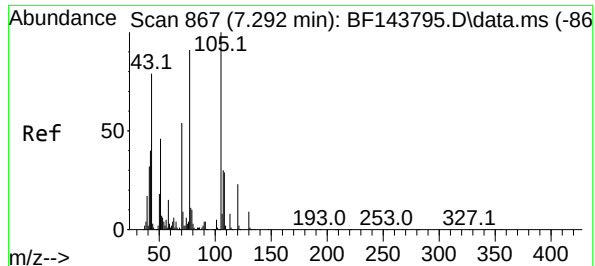


#18  
Hexachloroethane  
Concen: 72.909 ng  
RT: 7.404 min Scan# 886  
Delta R.T. 0.000 min  
Lab File: BF143798.D  
Acq: 23 Sep 2025 15:27



Tgt Ion:117 Resp: 213691  
Ion Ratio Lower Upper  
117 100  
119 95.3 76.2 114.2  
201 106.8 79.7 119.5





#19

n-Nitroso-di-n-propylamine

Concen: 66.866 ng

RT: 7.304 min Scan# 869

Delta R.T. 0.000 min

Lab File: BF143798.D

Acq: 23 Sep 2025 15:27

Instrument :

BNA\_F

ClientSampleId :

SSTDICC080

Tgt Ion: 70 Resp: 349063

Ion Ratio Lower Upper

70 100

42 75.3 59.4 89.0

101 8.8 7.1 10.7

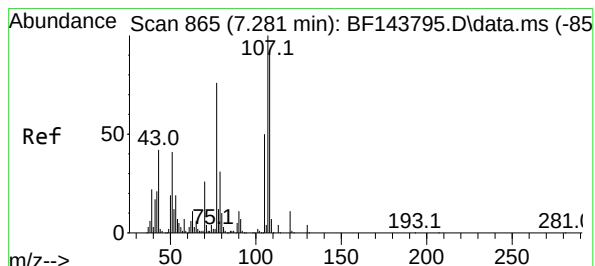
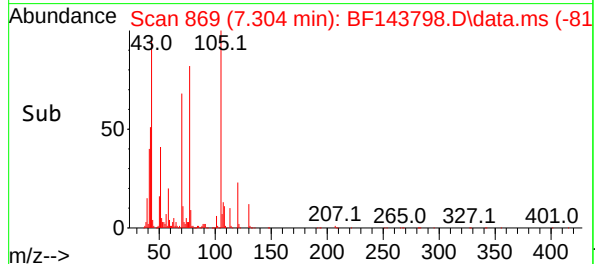
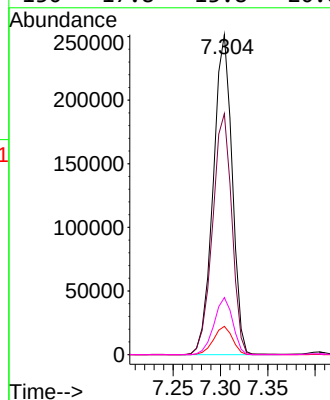
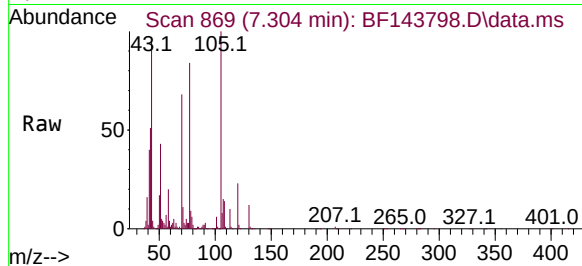
130 17.8 13.8 20.8

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#20

3+4-Methylphenols

Concen: 68.853 ng

RT: 7.287 min Scan# 866

Delta R.T. 0.000 min

Lab File: BF143798.D

Acq: 23 Sep 2025 15:27

Tgt Ion:107 Resp: 466916

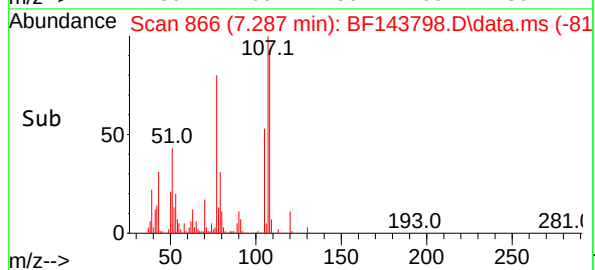
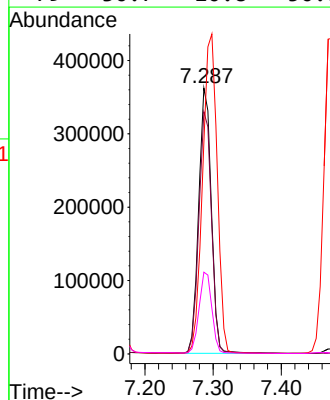
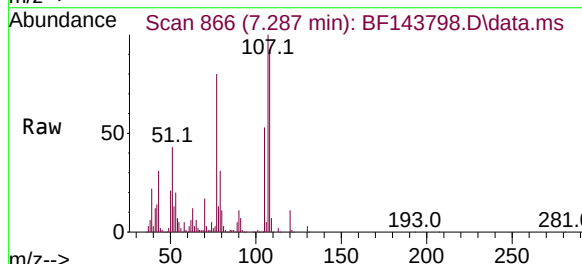
Ion Ratio Lower Upper

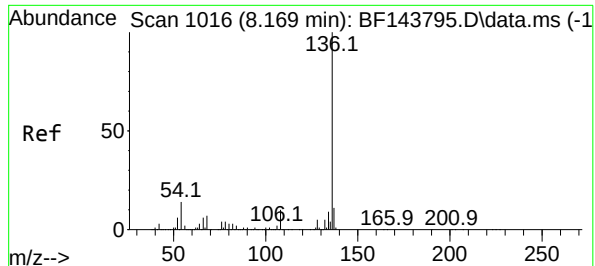
107 100

108 91.1 72.5 112.5

77 79.6 56.2 96.2

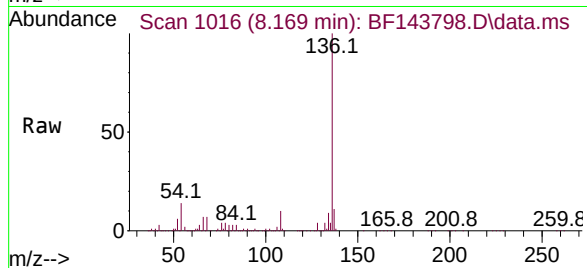
79 30.7 10.8 50.8





#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.169 min Scan# 1016  
Delta R.T. -0.000 min  
Lab File: BF143798.D  
Acq: 23 Sep 2025 15:27

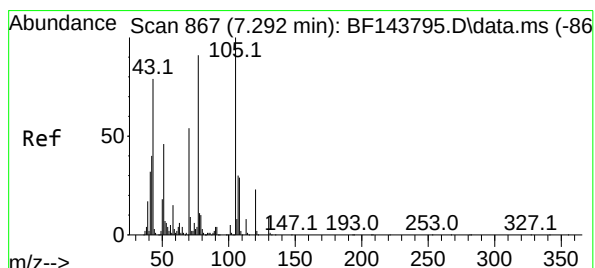
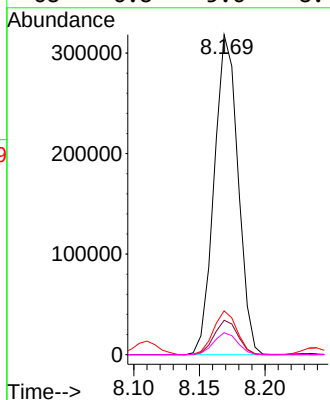
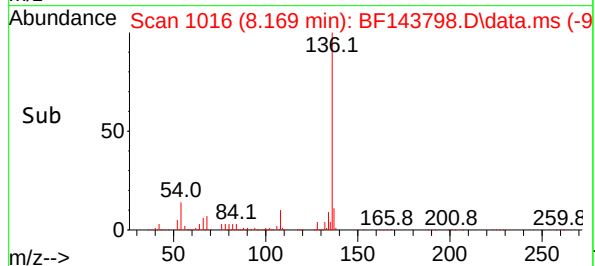
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC080



Tgt Ion:136 Resp: 403092  
Ion Ratio Lower Upper  
136 100  
137 10.7 9.0 13.4  
54 13.7 11.2 16.8  
68 6.8 5.6 8.4

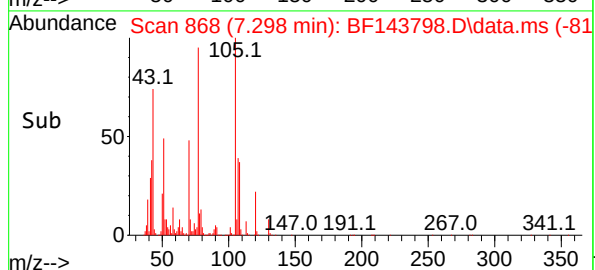
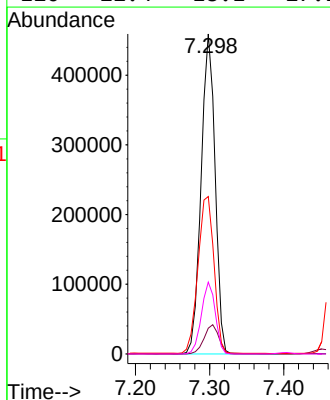
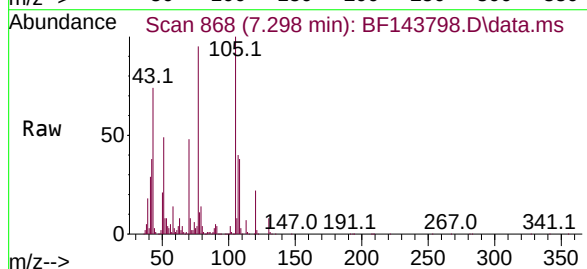
Manual Integrations  
APPROVED

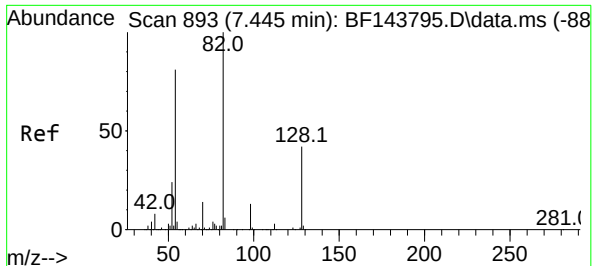
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#22  
Acetophenone  
Concen: 67.955 ng  
RT: 7.298 min Scan# 868  
Delta R.T. 0.000 min  
Lab File: BF143798.D  
Acq: 23 Sep 2025 15:27

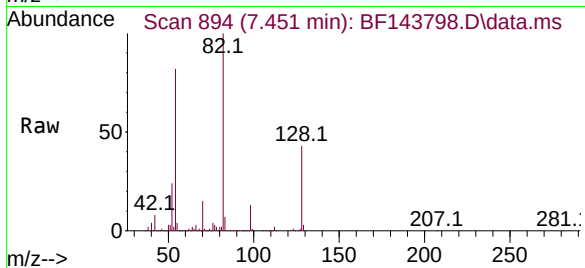
Tgt Ion:105 Resp: 601642  
Ion Ratio Lower Upper  
105 100  
71 8.0 7.0 10.4  
51 49.2 36.6 55.0  
120 22.4 18.1 27.1





#23  
Nitrobenzene-d5  
Concen: 154.839 ng  
RT: 7.451 min Scan# 891  
Delta R.T. 0.000 min  
Lab File: BF143798.D  
Acq: 23 Sep 2025 15:27

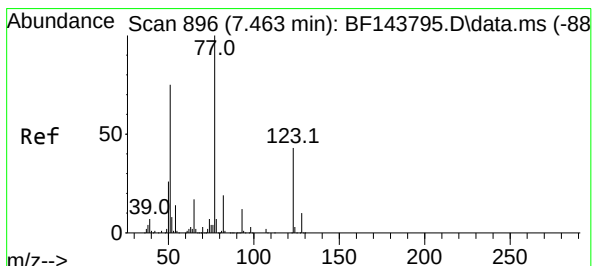
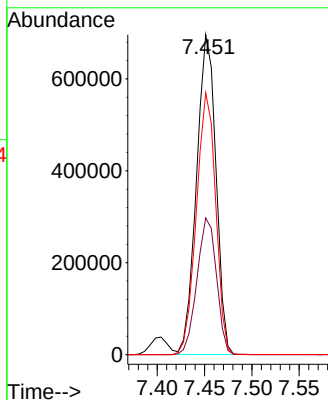
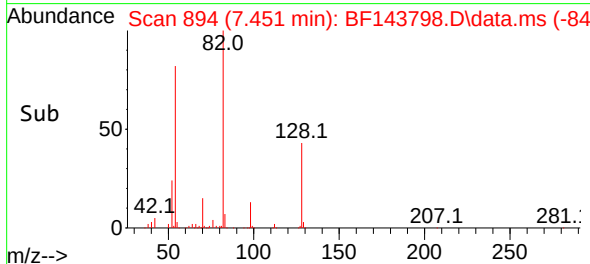
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC080



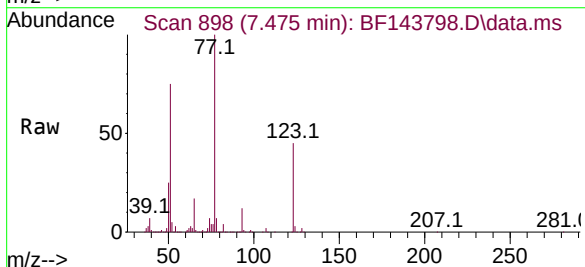
Tgt Ion: 82 Resp: 991785  
Ion Ratio Lower Upper  
82 100  
128 42.7 33.3 49.9  
54 81.8 64.2 96.4

Manual Integrations  
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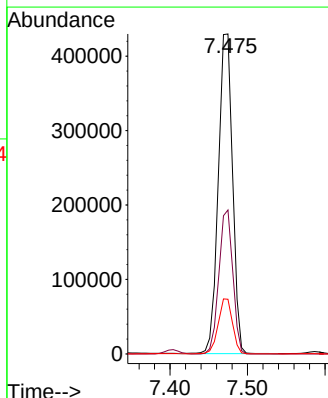
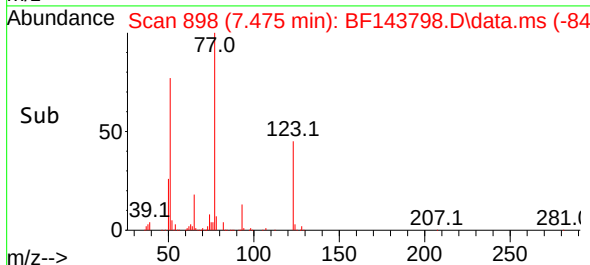
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025

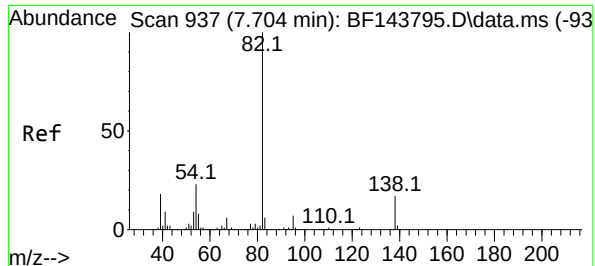


#24  
Nitrobenzene  
Concen: 75.655 ng  
RT: 7.475 min Scan# 898  
Delta R.T. 0.000 min  
Lab File: BF143798.D  
Acq: 23 Sep 2025 15:27



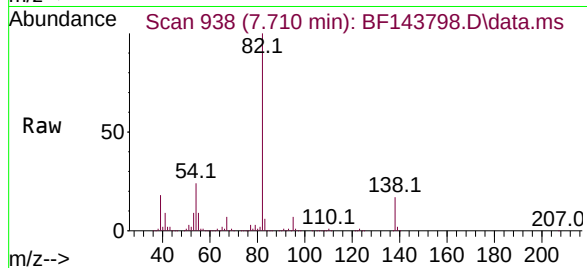
Tgt Ion: 77 Resp: 552229  
Ion Ratio Lower Upper  
77 100  
123 45.0 34.0 51.0  
65 17.1 13.5 20.3





#25  
Isophorone  
Concen: 72.232 ng  
RT: 7.710 min Scan# 937  
Delta R.T. 0.000 min  
Lab File: BF143798.D  
Acq: 23 Sep 2025 15:27

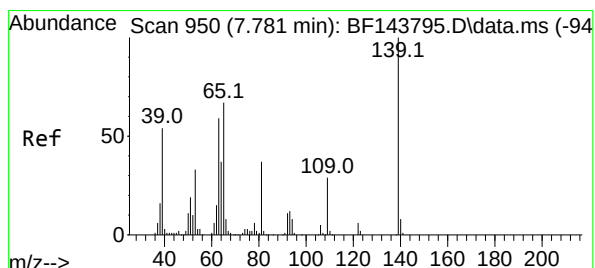
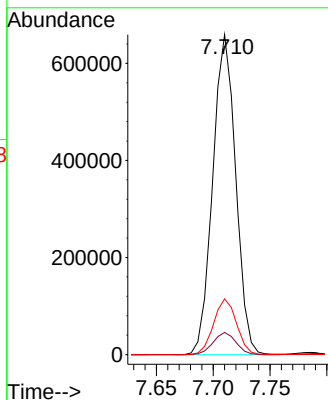
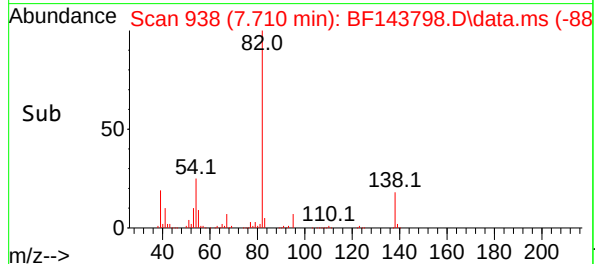
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC080



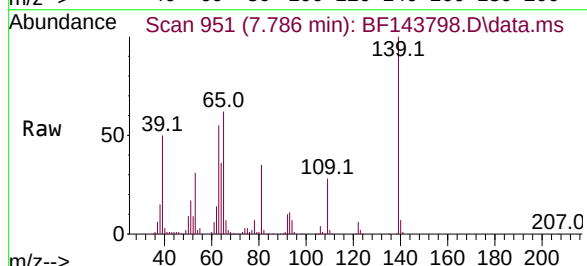
Tgt Ion: 82 Resp: 926928  
Ion Ratio Lower Upper  
82 100  
95 6.9 5.4 8.2  
138 17.5 13.7 20.5

Manual Integrations  
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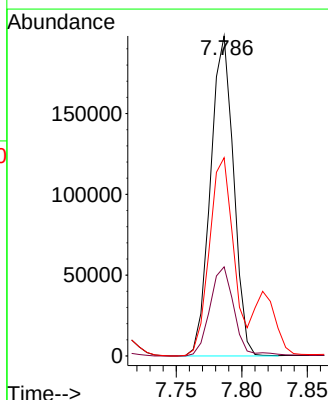
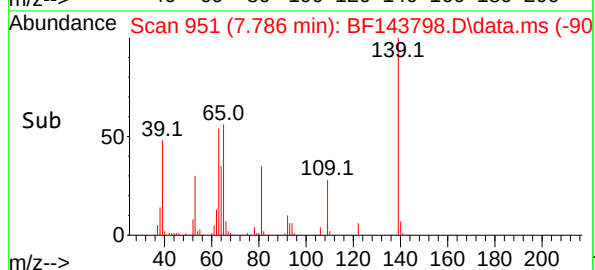
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025

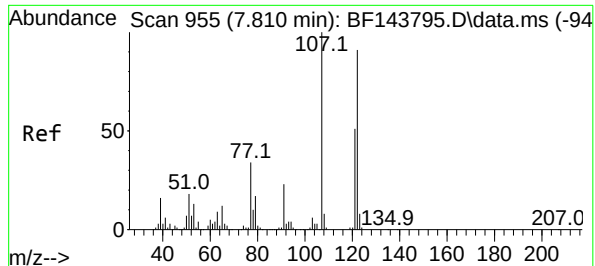


#26  
2-Nitrophenol  
Concen: 78.881 ng  
RT: 7.786 min Scan# 951  
Delta R.T. 0.000 min  
Lab File: BF143798.D  
Acq: 23 Sep 2025 15:27



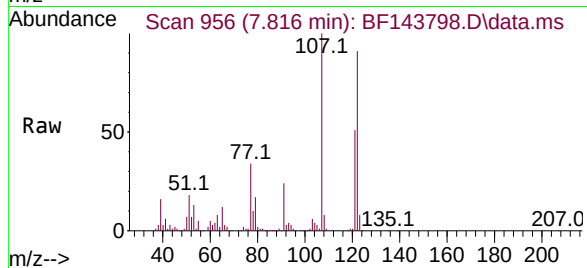
Tgt Ion:139 Resp: 241928  
Ion Ratio Lower Upper  
139 100  
109 27.8 23.3 34.9  
65 61.9 53.8 80.6





#27  
2,4-Dimethylphenol  
Concen: 73.324 ng  
RT: 7.816 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: BF143798.D  
Acq: 23 Sep 2025 15:27

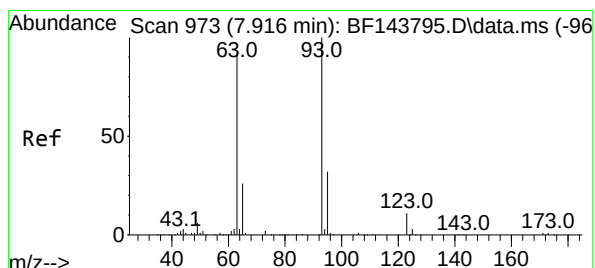
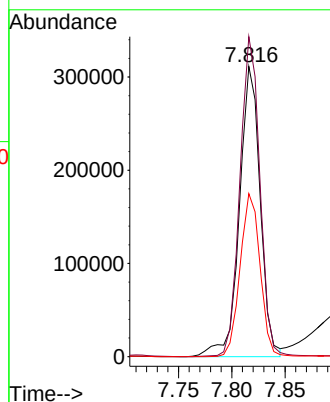
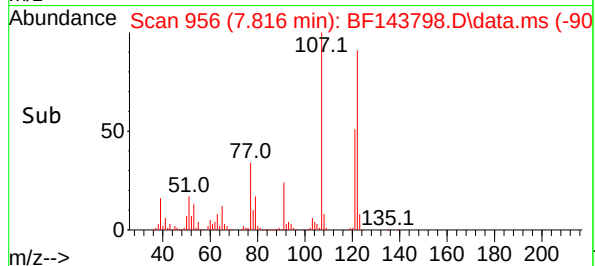
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC080



Tgt Ion:122 Resp: 420564  
Ion Ratio Lower Upper  
122 100  
107 110.3 87.5 131.3  
121 56.1 44.2 66.4

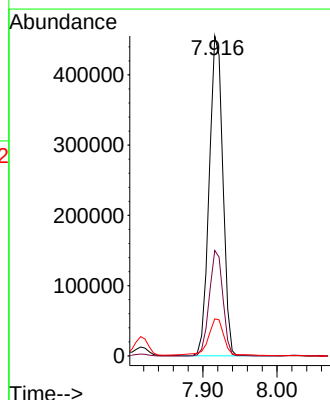
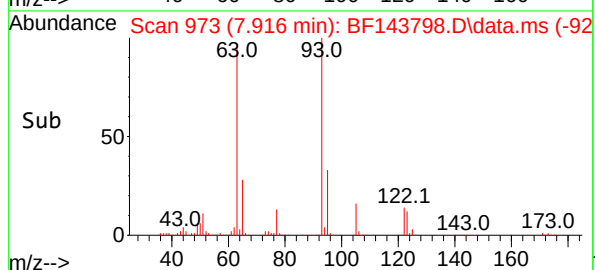
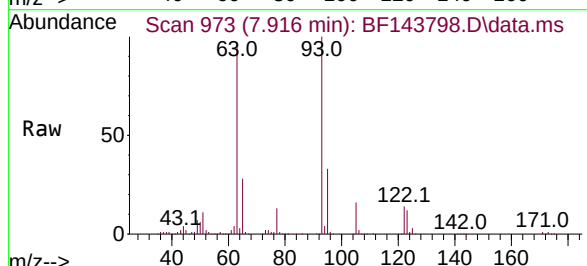
Manual Integrations  
APPROVED

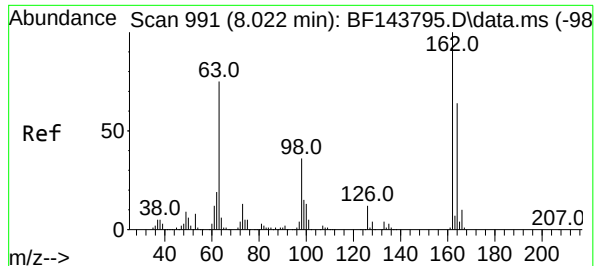
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#28  
bis(2-Chloroethoxy)methane  
Concen: 69.544 ng  
RT: 7.916 min Scan# 973  
Delta R.T. 0.000 min  
Lab File: BF143798.D  
Acq: 23 Sep 2025 15:27

Tgt Ion: 93 Resp: 579809  
Ion Ratio Lower Upper  
93 100  
95 32.9 25.8 38.8  
123 11.6 8.8 13.2





#29

2,4-Dichlorophenol

Concen: 74.200 ng

RT: 8.022 min Scan# 991

Delta R.T. 0.000 min

Lab File: BF143798.D

Acq: 23 Sep 2025 15:27

Instrument :

BNA\_F

ClientSampleId :

SSTDICC080

Tgt Ion:162 Resp: 418769

Ion Ratio Lower Upper

162 100

164 63.2 44.1 84.1

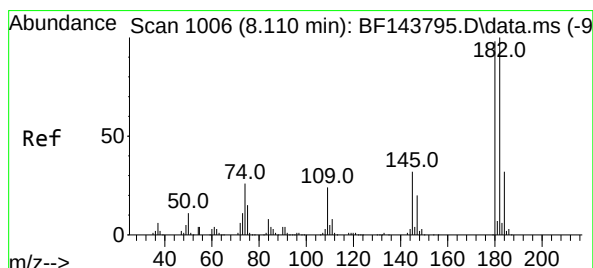
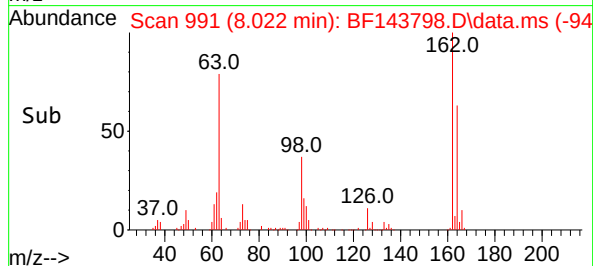
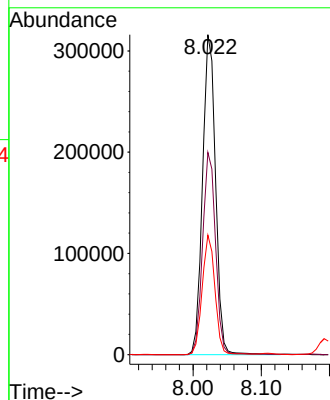
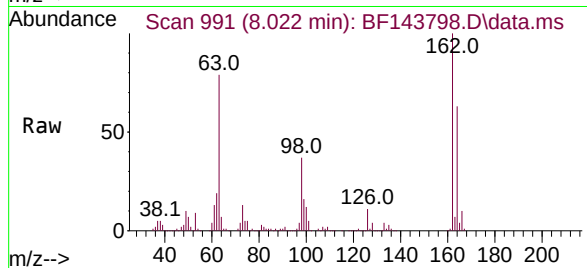
98 37.3 15.8 55.8

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#30

1,2,4-Trichlorobenzene

Concen: 72.784 ng

RT: 8.110 min Scan# 1006

Delta R.T. 0.000 min

Lab File: BF143798.D

Acq: 23 Sep 2025 15:27

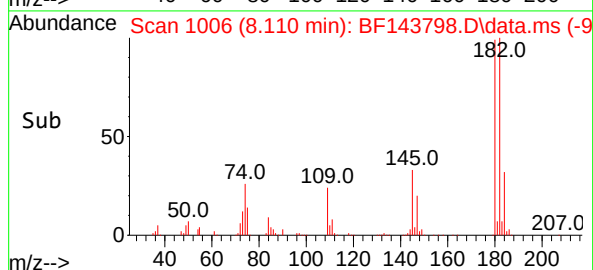
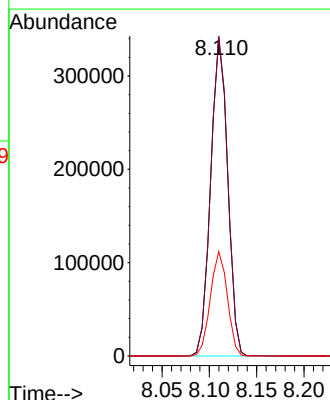
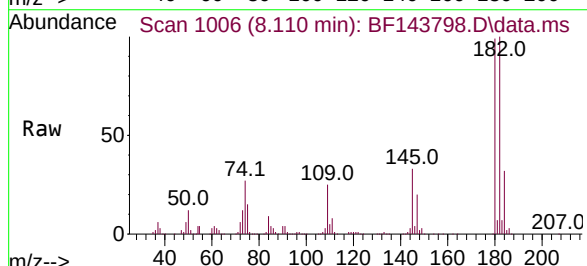
Tgt Ion:180 Resp: 426294

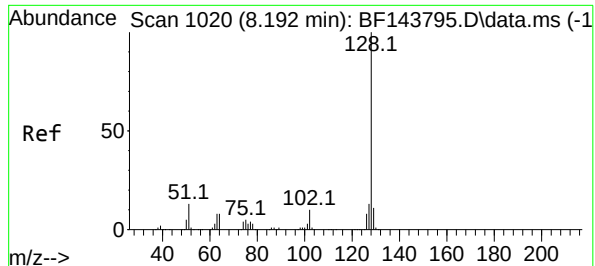
Ion Ratio Lower Upper

180 100

182 100.7 82.0 123.0

145 32.8 25.9 38.9





#31

Naphthalene

Concen: 68.985 ng

RT: 8.192 min Scan# 10

Delta R.T. 0.000 min

Lab File: BF143798.D

Acq: 23 Sep 2025 15:27

Instrument :

BNA\_F

ClientSampleId :

SSTDICC080

Tgt Ion:128 Resp: 1331192

Ion Ratio Lower Upper

128 100

129 11.4 8.8 13.2

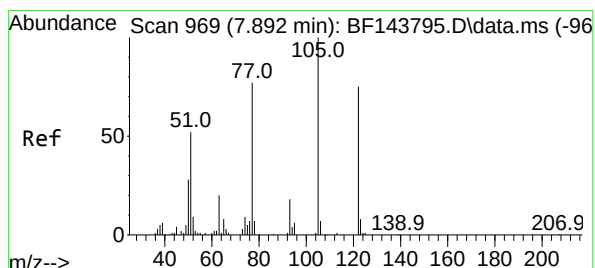
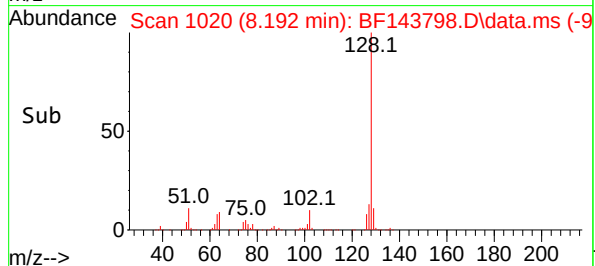
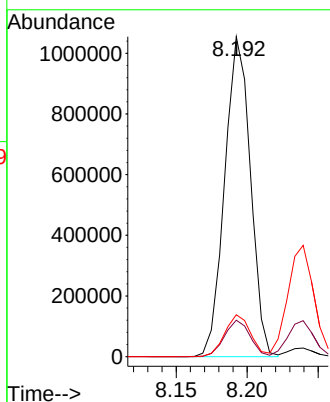
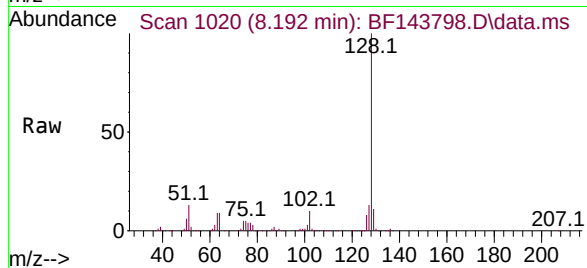
127 13.1 10.2 15.4

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#32

Benzoic acid

Concen: 93.800 ng

RT: 7.922 min Scan# 974

Delta R.T. 0.000 min

Lab File: BF143798.D

Acq: 23 Sep 2025 15:27

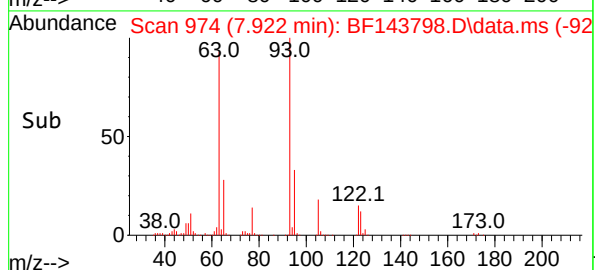
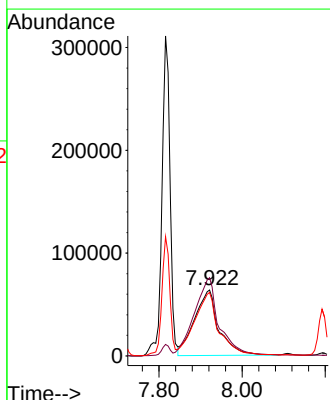
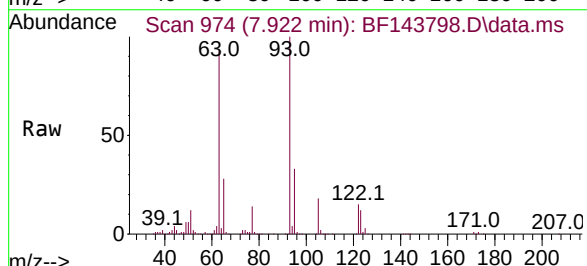
Tgt Ion:122 Resp: 259578

Ion Ratio Lower Upper

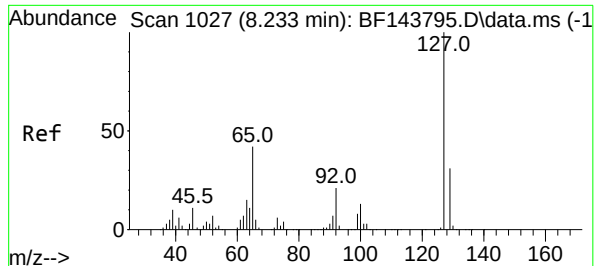
122 100

105 118.7 103.7 143.7

77 96.1 78.8 118.8







#33

4-Chloroaniline

Concen: 70.124 ng

RT: 8.239 min Scan# 1027

Delta R.T. 0.000 min

Lab File: BF143798.D

Acq: 23 Sep 2025 15:27

Instrument :

BNA\_F

ClientSampleId :

SSTDICC080

Tgt Ion:127 Resp: 475524

Ion Ratio Lower Upper

127 100

129 32.3 25.4 38.2

65 42.2 33.4 50.2

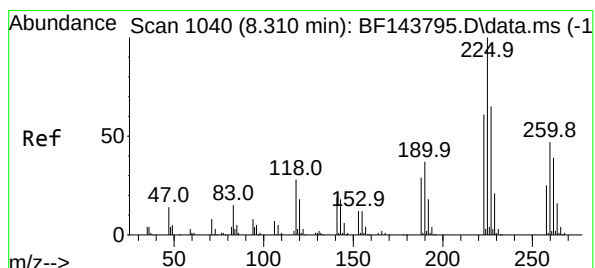
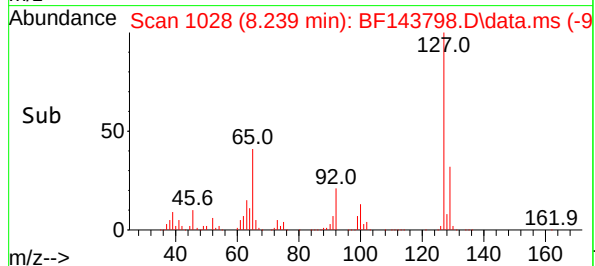
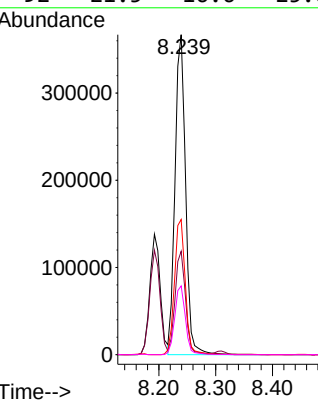
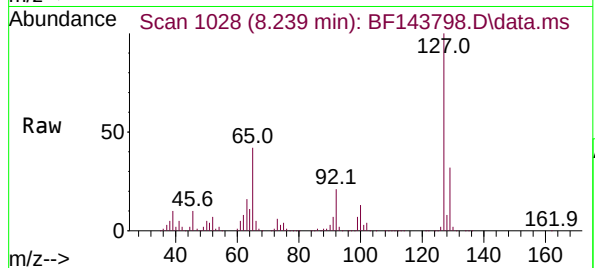
92 21.5 16.6 25.0

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#34

Hexachlorobutadiene

Concen: 73.390 ng

RT: 8.310 min Scan# 1040

Delta R.T. 0.000 min

Lab File: BF143798.D

Acq: 23 Sep 2025 15:27

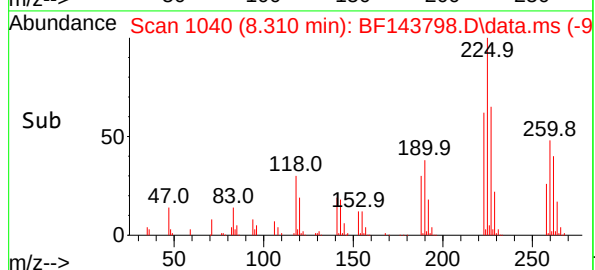
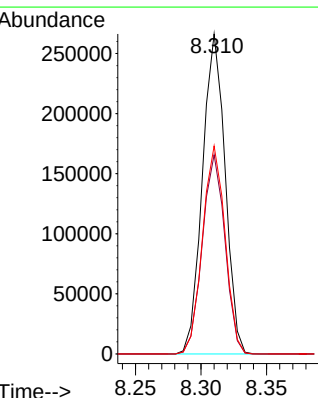
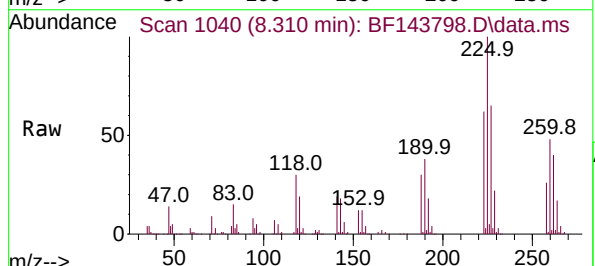
Tgt Ion:225 Resp: 320435

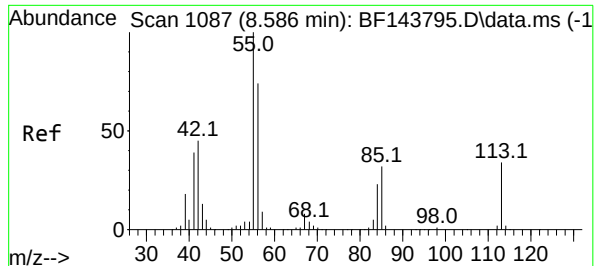
Ion Ratio Lower Upper

225 100

223 62.2 48.6 72.8

227 65.0 51.9 77.9





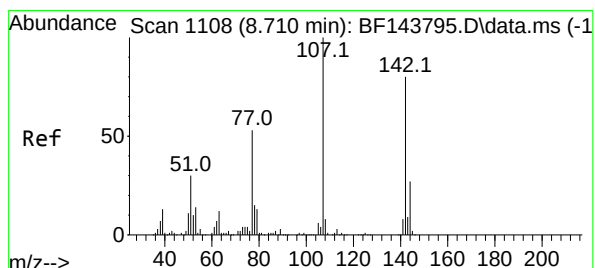
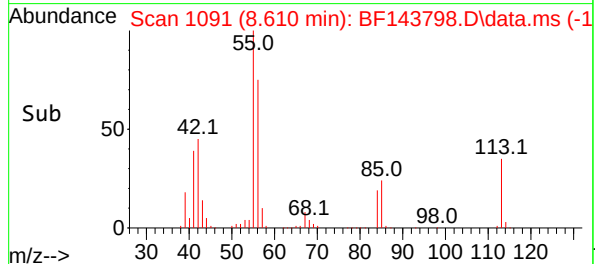
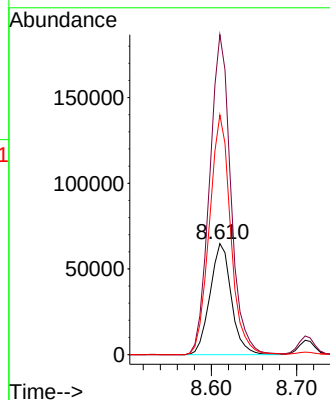
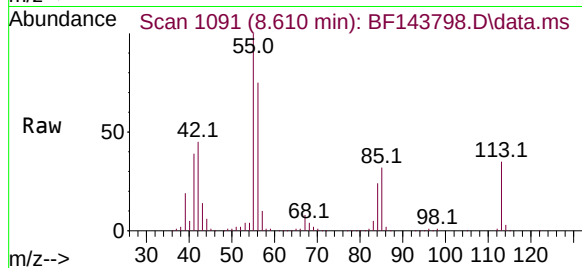
#35  
Caprolactam  
Concen: 78.007 ng  
RT: 8.610 min Scan# 1087  
Delta R.T. 0.000 min  
Lab File: BF143798.D  
Acq: 23 Sep 2025 15:27

Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC080

Tgt Ion:113 Resp: 112528  
Ion Ratio Lower Upper  
113 100  
55 288.2 271.7 311.7  
56 215.8 194.5 234.5

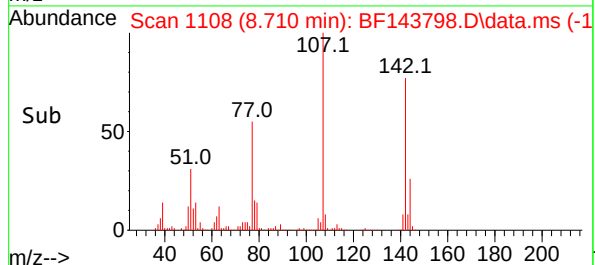
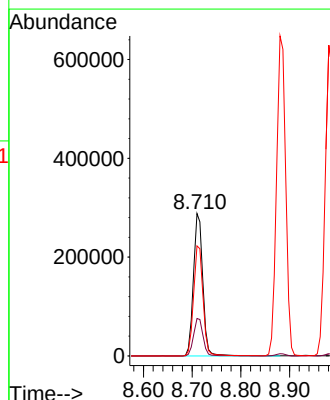
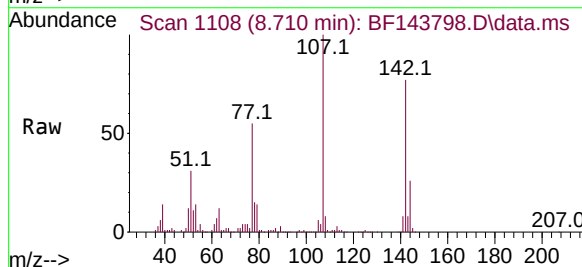
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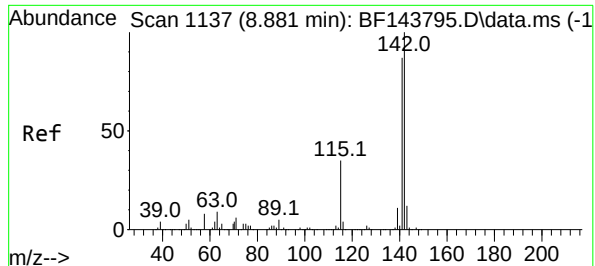
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#36  
4-Chloro-3-methylphenol  
Concen: 72.398 ng  
RT: 8.710 min Scan# 1108  
Delta R.T. 0.000 min  
Lab File: BF143798.D  
Acq: 23 Sep 2025 15:27

Tgt Ion:107 Resp: 383212  
Ion Ratio Lower Upper  
107 100  
144 26.3 21.8 32.8  
142 77.3 63.6 95.4





#37

2-Methylnaphthalene

Concen: 68.255 ng

RT: 8.881 min Scan# 1137

Delta R.T. 0.000 min

Lab File: BF143798.D

Acq: 23 Sep 2025 15:27

Instrument :

BNA\_F

ClientSampleId :

SSTDICC080

Tgt Ion:142 Resp: 839849

Ion Ratio Lower Upper

142 100

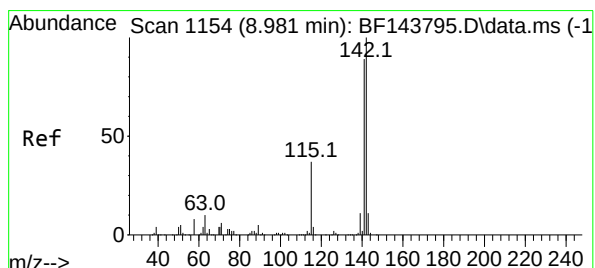
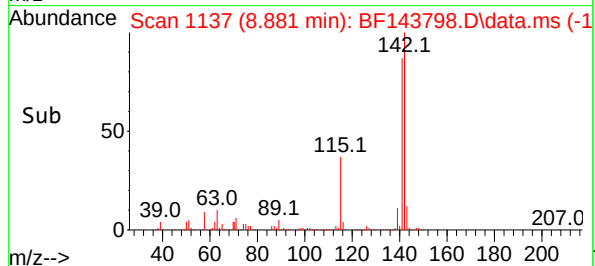
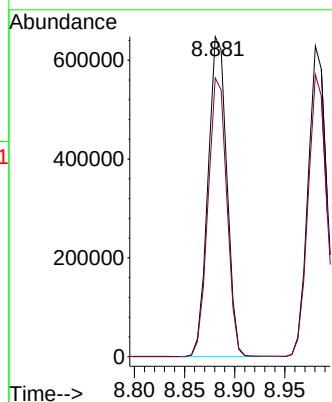
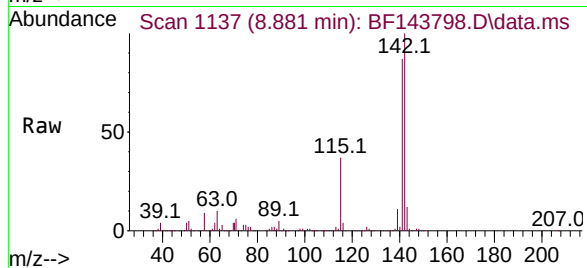
141 87.1 69.4 104.0

Manual Integrations

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Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#38

1-Methylnaphthalene

Concen: 67.842 ng

RT: 8.981 min Scan# 1154

Delta R.T. 0.000 min

Lab File: BF143798.D

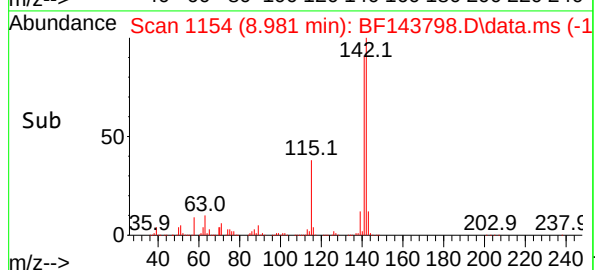
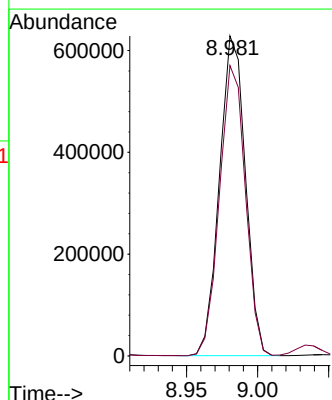
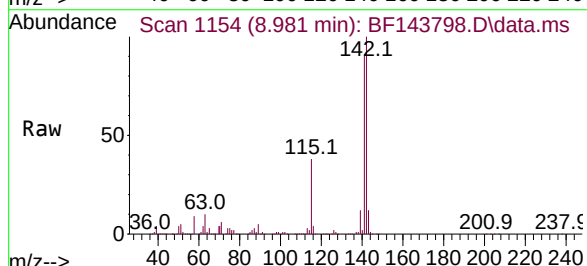
Acq: 23 Sep 2025 15:27

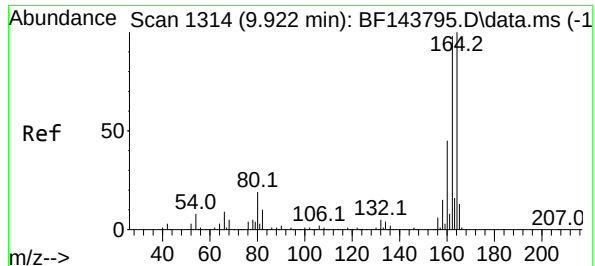
Tgt Ion:142 Resp: 799000

Ion Ratio Lower Upper

142 100

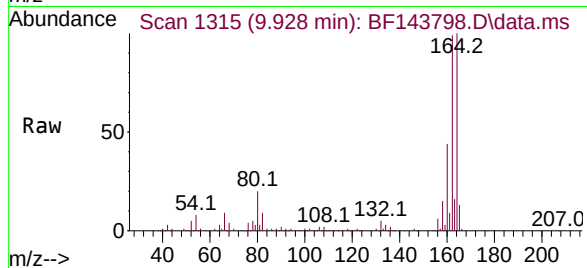
141 90.7 71.1 106.7





#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.928 min Scan# 1314  
Delta R.T. -0.001 min  
Lab File: BF143798.D  
Acq: 23 Sep 2025 15:27

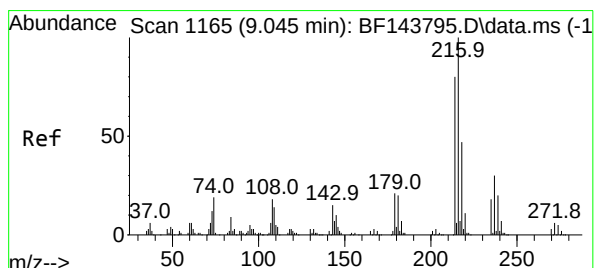
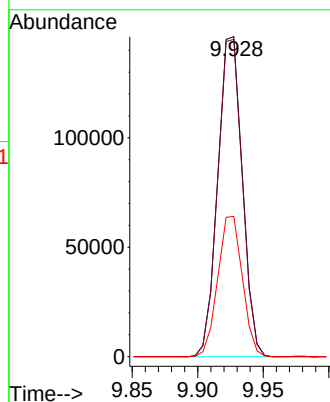
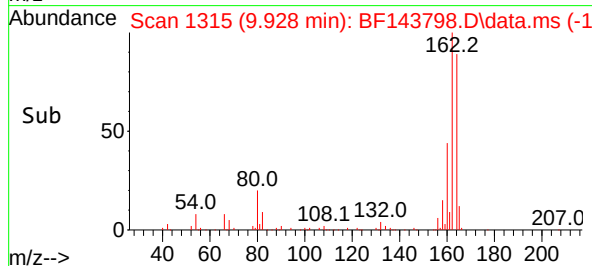
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC080



Tgt Ion:164 Resp: 191047  
Ion Ratio Lower Upper  
164 100  
162 99.1 78.8 118.2  
160 43.8 35.8 53.6

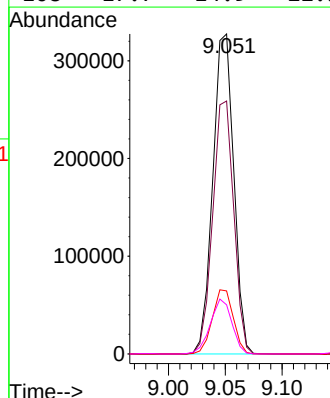
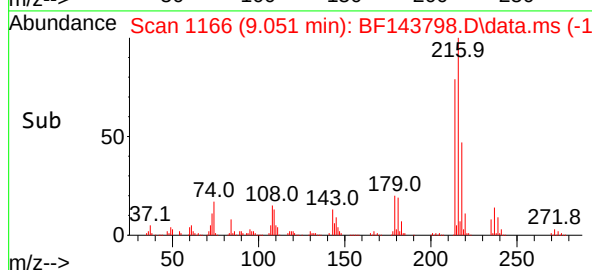
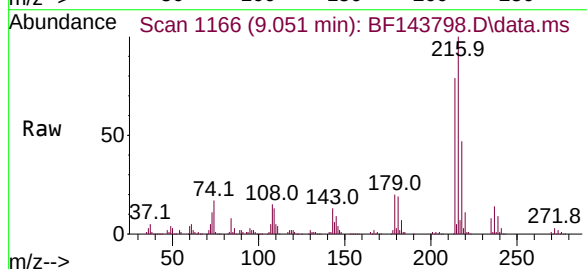
Manual Integrations  
APPROVED

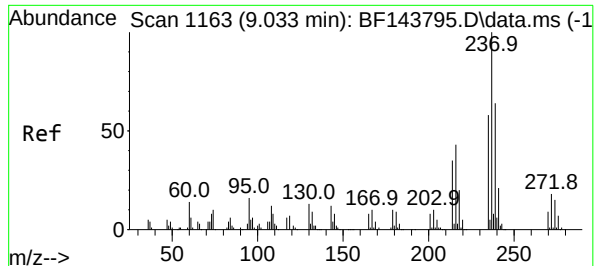
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#40  
1,2,4,5-Tetrachlorobenzene  
Concen: 72.811 ng  
RT: 9.051 min Scan# 1166  
Delta R.T. 0.000 min  
Lab File: BF143798.D  
Acq: 23 Sep 2025 15:27

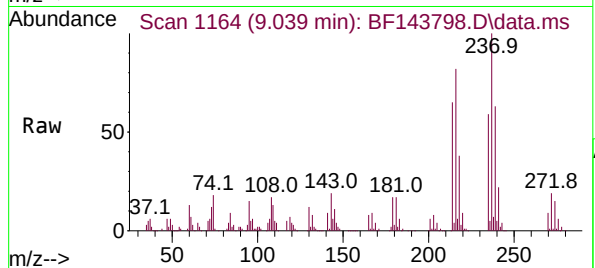
Tgt Ion:216 Resp: 419788  
Ion Ratio Lower Upper  
216 100  
214 79.3 63.7 95.5  
179 20.0 16.5 24.7  
108 17.7 14.9 22.3





#41  
Hexachlorocyclopentadiene  
Concen: 80.945 ng  
RT: 9.039 min Scan# 1163  
Delta R.T. 0.000 min  
Lab File: BF143798.D  
Acq: 23 Sep 2025 15:27

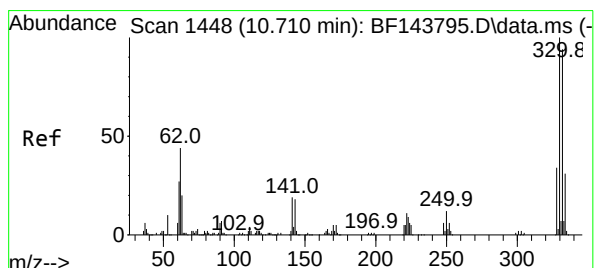
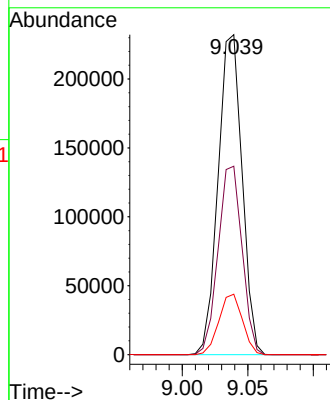
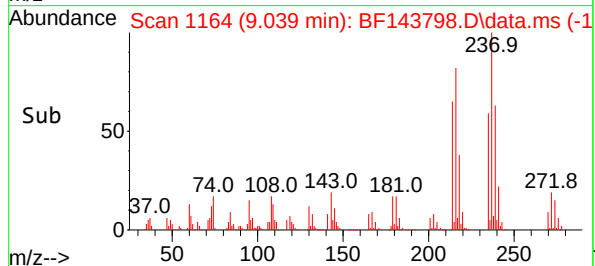
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC080



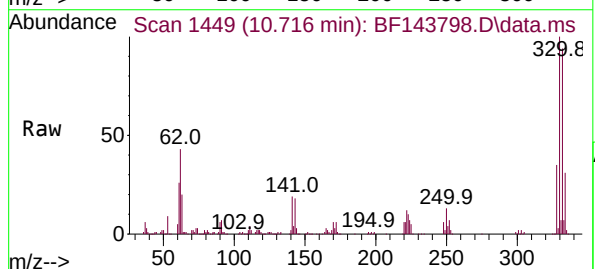
Tgt Ion: 237 Resp: 295770  
Ion Ratio Lower Upper  
237 100  
235 58.9 38.1 78.1  
272 18.9 0.0 37.9

Manual Integrations  
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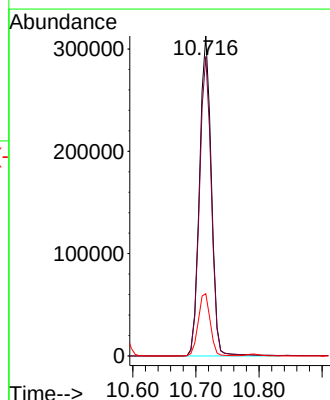
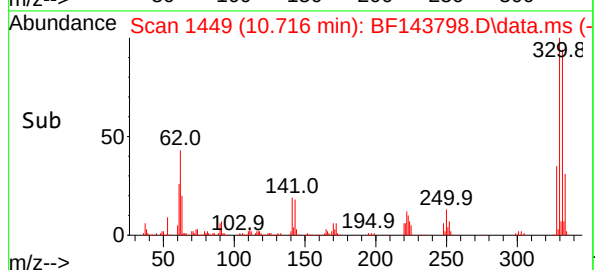
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025

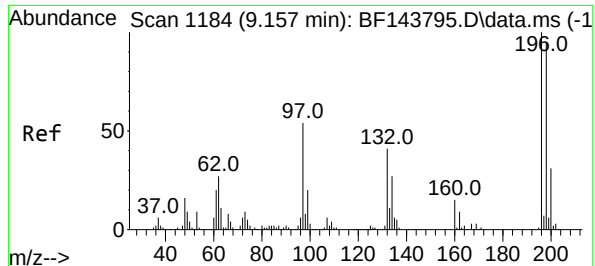


#42  
2,4,6-Tribromophenol  
Concen: 149.081 ng  
RT: 10.716 min Scan# 1449  
Delta R.T. 0.000 min  
Lab File: BF143798.D  
Acq: 23 Sep 2025 15:27



Tgt Ion: 330 Resp: 406469  
Ion Ratio Lower Upper  
330 100  
332 94.3 74.7 112.1  
141 19.7 14.3 21.5





#43

2,4,6-Trichlorophenol

Concen: 77.279 ng

RT: 9.157 min Scan# 1184

Delta R.T. 0.000 min

Lab File: BF143798.D

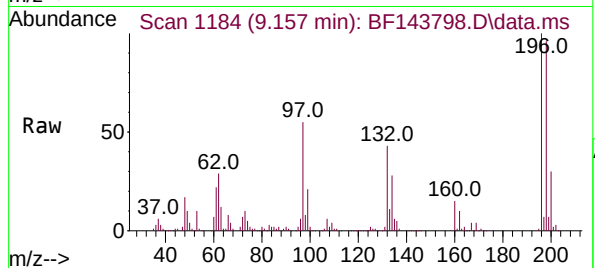
Acq: 23 Sep 2025 15:27

Instrument :

BNA\_F

ClientSampleId :

SSTDICC080



Tgt Ion:196 Resp: 278988

Ion Ratio Lower Upper

196 100

198 96.3 76.2 114.2

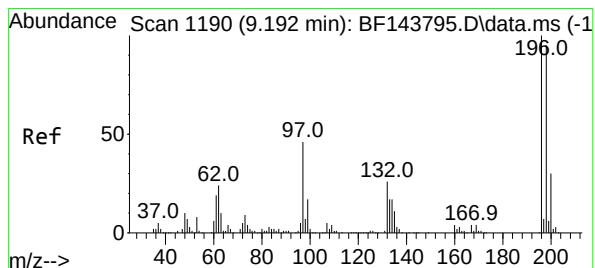
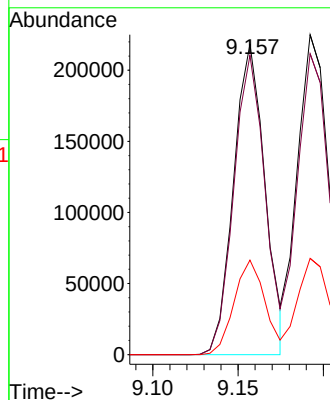
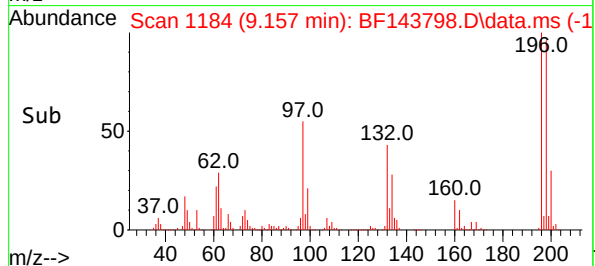
200 30.4 24.7 37.1

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#44

2,4,5-Trichlorophenol

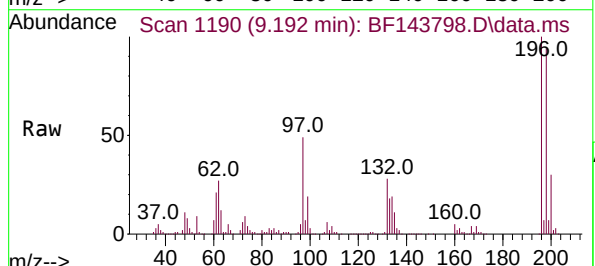
Concen: 77.179 ng

RT: 9.192 min Scan# 1190

Delta R.T. 0.000 min

Lab File: BF143798.D

Acq: 23 Sep 2025 15:27



Tgt Ion:196 Resp: 291440

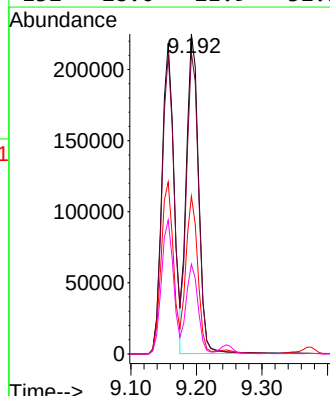
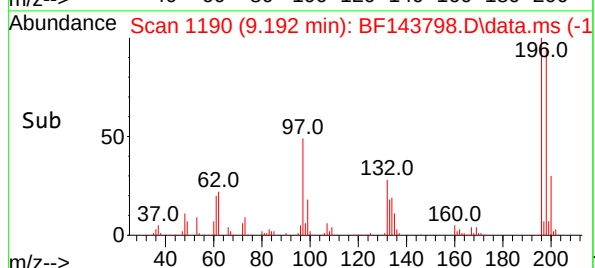
Ion Ratio Lower Upper

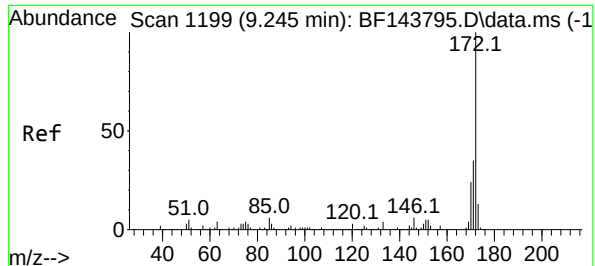
196 100

198 94.0 75.9 113.9

97 49.3 38.3 57.5

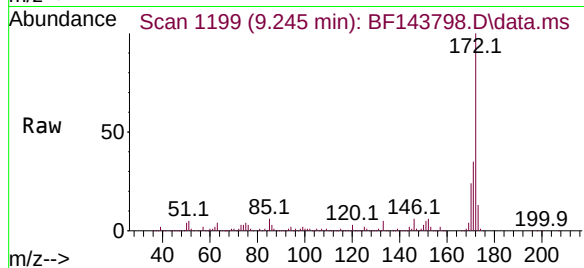
132 28.0 21.9 32.9





#45  
2-Fluorobiphenyl  
Concen: 129.595 ng  
RT: 9.245 min Scan# 1199  
Delta R.T. 0.000 min  
Lab File: BF143798.D  
Acq: 23 Sep 2025 15:27

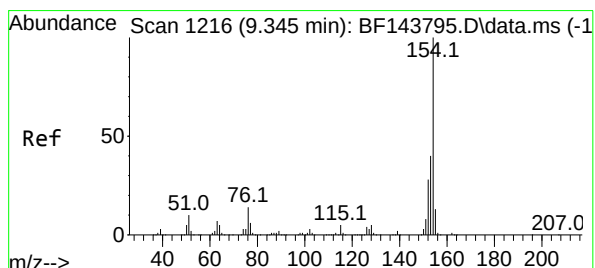
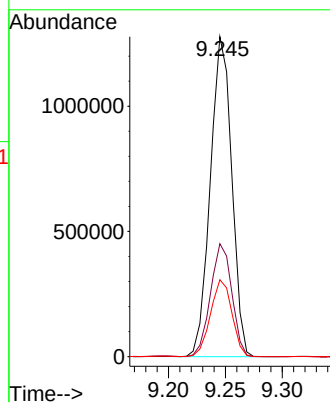
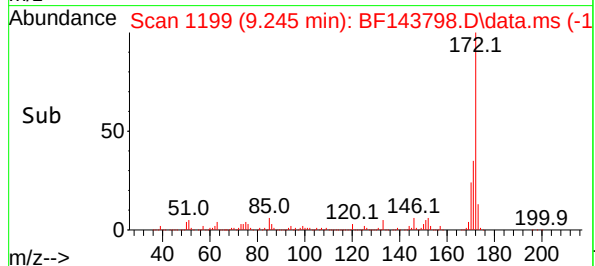
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC080



Tgt Ion:172 Resp: 1675409  
Ion Ratio Lower Upper  
172 100  
171 35.3 27.9 41.9  
170 24.0 19.1 28.7

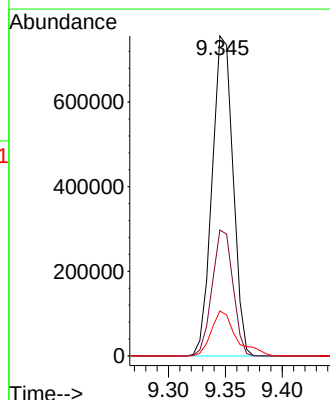
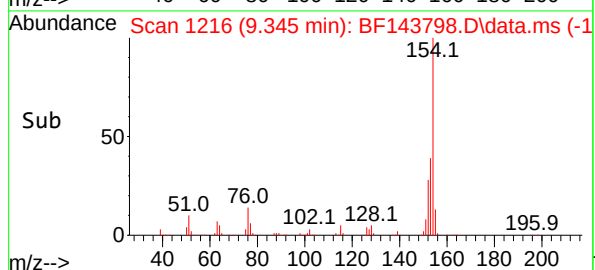
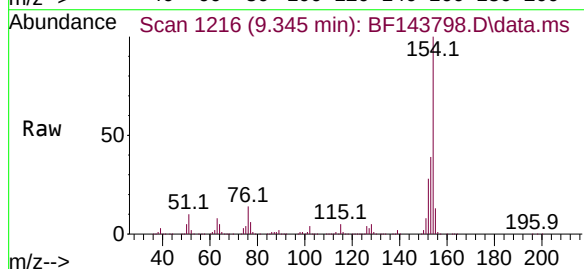
Manual Integrations  
APPROVED

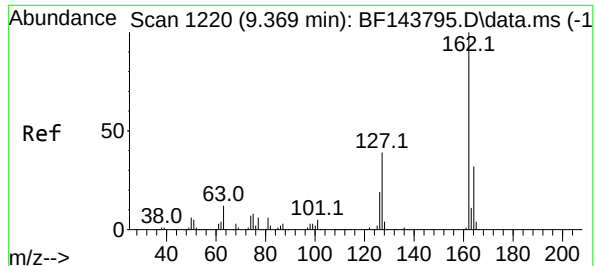
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#46  
1,1'-Biphenyl  
Concen: 70.127 ng  
RT: 9.345 min Scan# 1216  
Delta R.T. 0.000 min  
Lab File: BF143798.D  
Acq: 23 Sep 2025 15:27

Tgt Ion:154 Resp: 969811  
Ion Ratio Lower Upper  
154 100  
153 39.3 19.7 59.7  
76 14.0 0.0 33.8





#47

2-Chloronaphthalene

Concen: 71.150 ng

RT: 9.375 min Scan# 1221

Delta R.T. 0.000 min

Lab File: BF143798.D

Acq: 23 Sep 2025 15:27

Instrument :

BNA\_F

ClientSampleId :

SSTDICC080

Tgt Ion:162 Resp: 792043

Ion Ratio Lower Upper

162 100

127 39.2 31.5 47.3

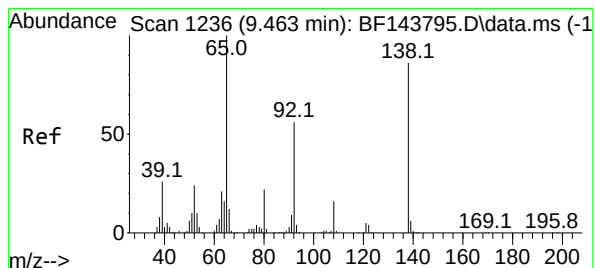
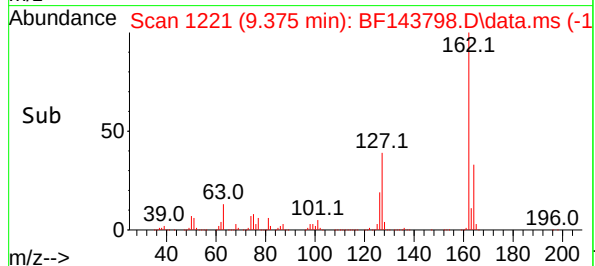
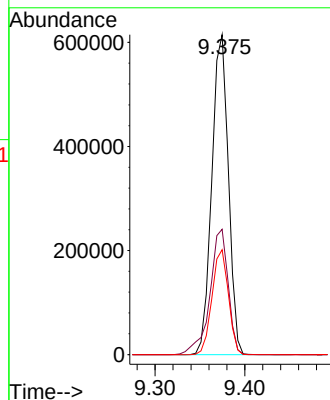
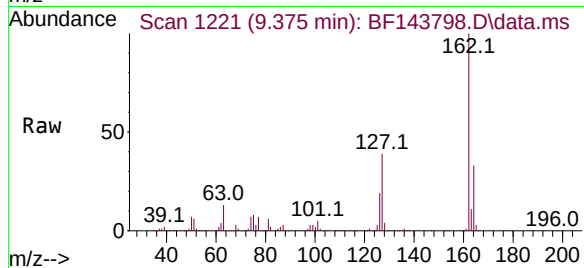
164 32.8 25.9 38.9

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#48

2-Nitroaniline

Concen: 87.616 ng

RT: 9.463 min Scan# 1236

Delta R.T. 0.000 min

Lab File: BF143798.D

Acq: 23 Sep 2025 15:27

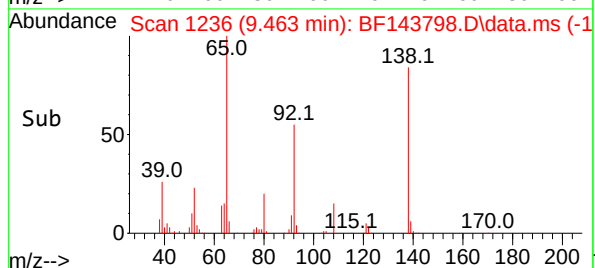
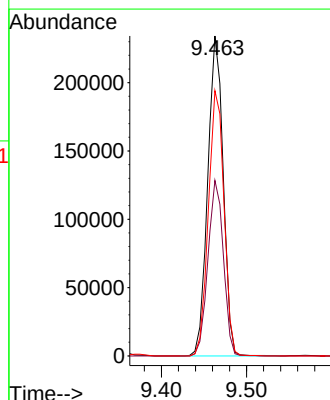
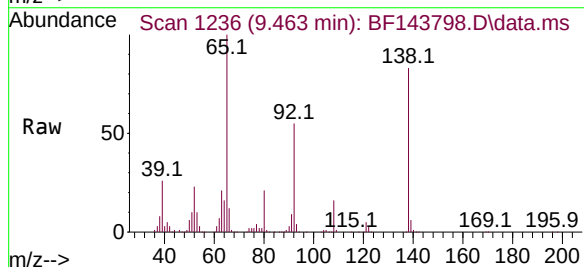
Tgt Ion: 65 Resp: 294783

Ion Ratio Lower Upper

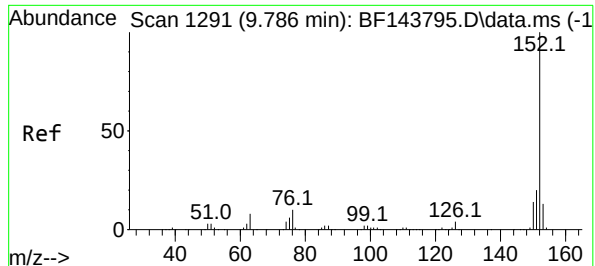
65 100

92 54.8 44.9 67.3

138 82.9 69.0 103.4







#49

Acenaphthylene

Concen: 71.813 ng

RT: 9.786 min Scan# 1291

Delta R.T. 0.000 min

Lab File: BF143798.D

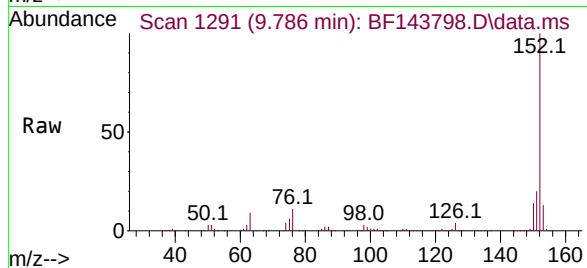
Acq: 23 Sep 2025 15:27

Instrument :

BNA\_F

ClientSampleId :

SSTDICC080



Tgt Ion:152 Resp: 1100520

Ion Ratio Lower Upper

152 100

151 20.0 15.7 23.5

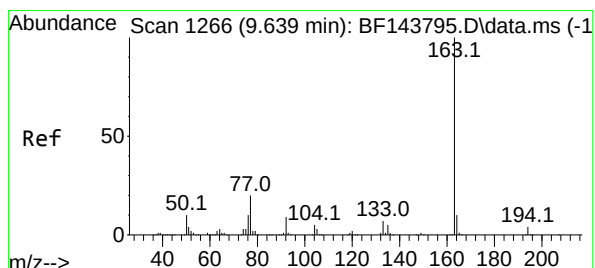
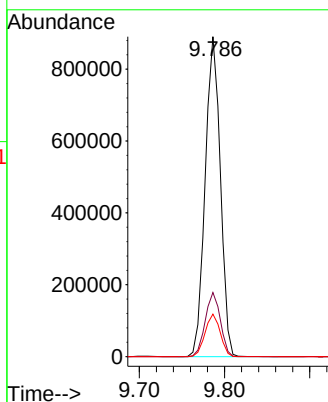
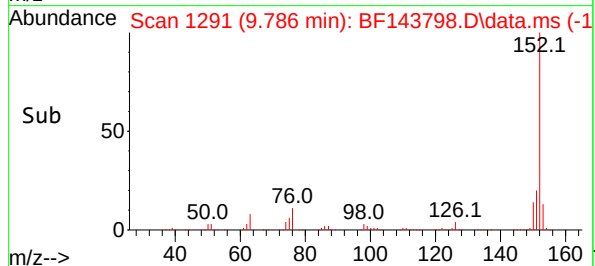
153 13.3 10.6 15.8

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#50

Dimethylphthalate

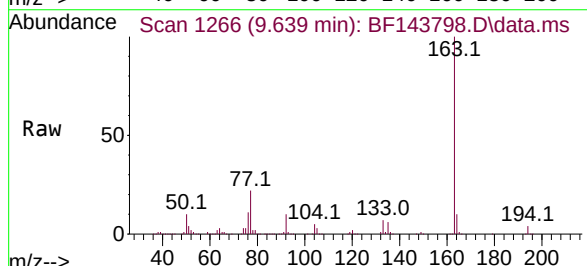
Concen: 73.652 ng

RT: 9.639 min Scan# 1266

Delta R.T. 0.000 min

Lab File: BF143798.D

Acq: 23 Sep 2025 15:27



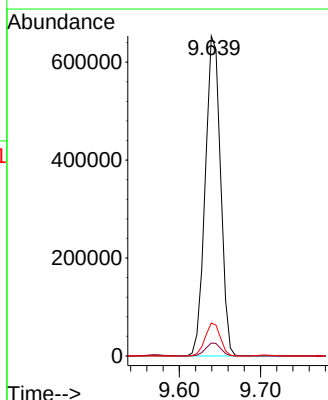
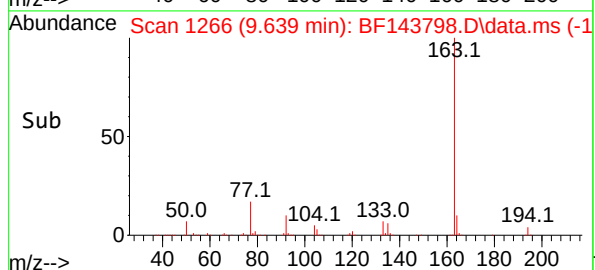
Tgt Ion:163 Resp: 857631

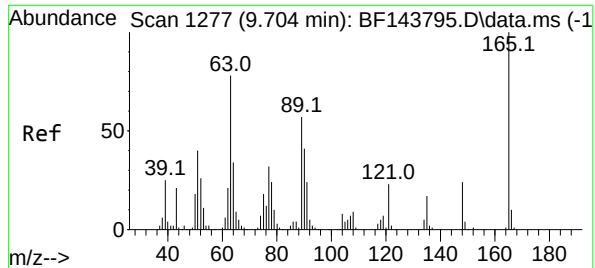
Ion Ratio Lower Upper

163 100

194 4.0 3.0 4.6

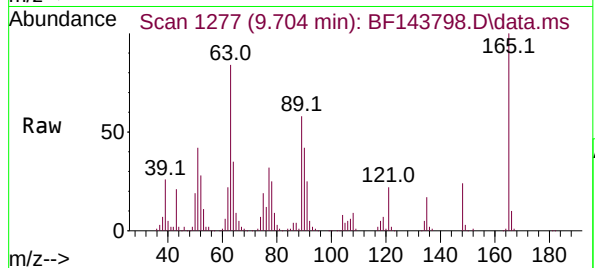
164 10.3 8.2 12.2





#51  
2,6-Dinitrotoluene  
Concen: 88.265 ng  
RT: 9.704 min Scan# 1277  
Delta R.T. 0.000 min  
Lab File: BF143798.D  
Acq: 23 Sep 2025 15:27

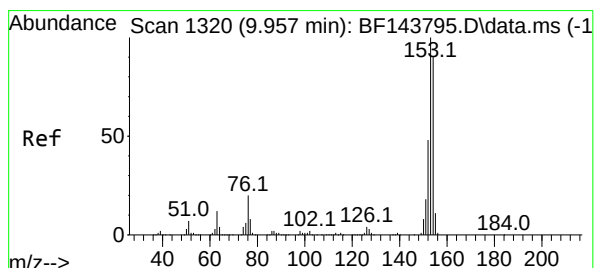
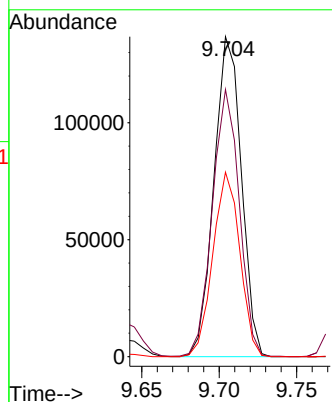
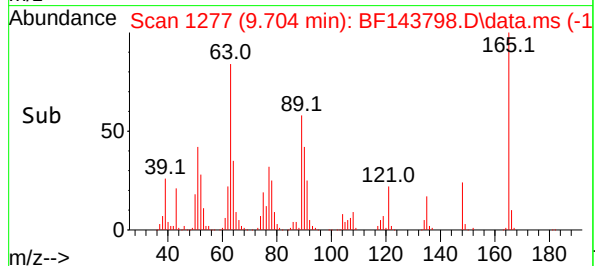
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC080



Tgt Ion:165 Resp: 168866  
Ion Ratio Lower Upper  
165 100  
63 83.5 62.6 94.0  
89 57.6 45.2 67.8

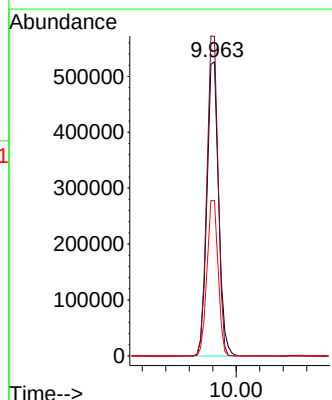
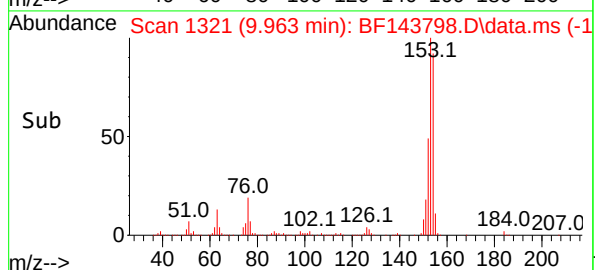
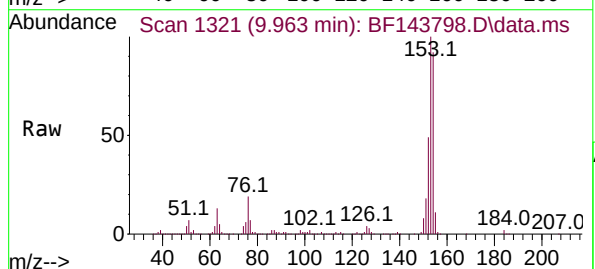
Manual Integrations  
APPROVED

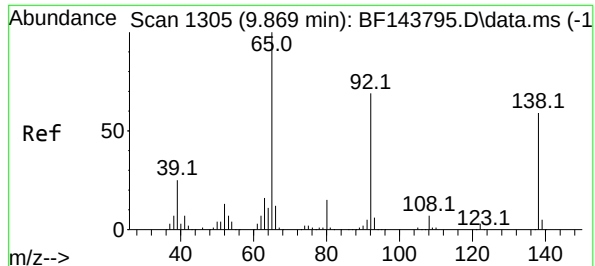
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#52  
Acenaphthene  
Concen: 72.181 ng  
RT: 9.963 min Scan# 1321  
Delta R.T. 0.000 min  
Lab File: BF143798.D  
Acq: 23 Sep 2025 15:27

Tgt Ion:154 Resp: 727931  
Ion Ratio Lower Upper  
154 100  
153 108.6 88.7 133.1  
152 52.8 42.7 64.1





#53

3-Nitroaniline

Concen: 87.079 ng

RT: 9.875 min Scan# 1306

Delta R.T. 0.000 min

Lab File: BF143798.D

Acq: 23 Sep 2025 15:27

Instrument :

BNA\_F

ClientSampleId :

SSTDICC080

Tgt Ion:138 Resp: 201936

Ion Ratio Lower Upper

138 100

108 11.0 9.9 14.9

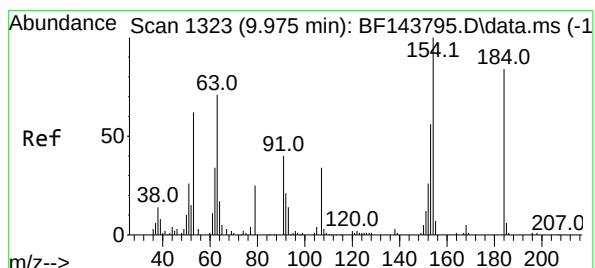
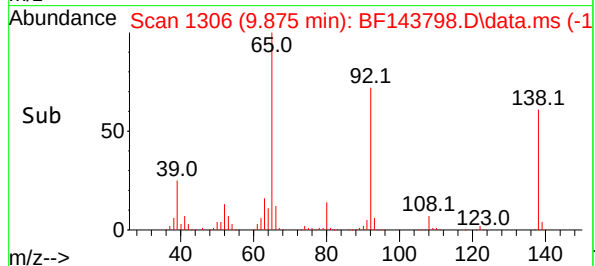
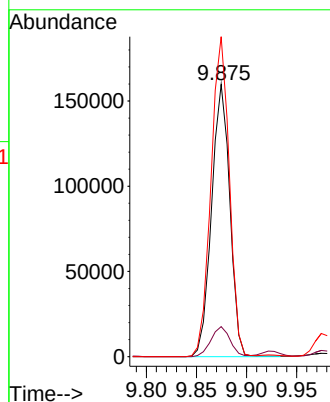
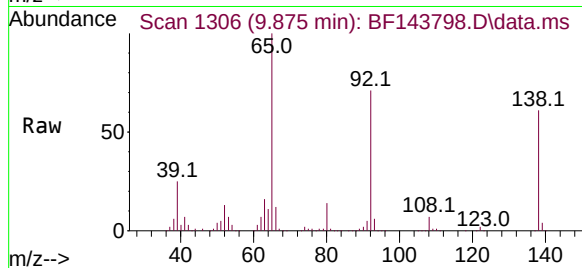
92 117.5 93.5 140.3

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#54

2,4-Dinitrophenol

Concen: 79.097 ng

RT: 9.975 min Scan# 1323

Delta R.T. -0.000 min

Lab File: BF143798.D

Acq: 23 Sep 2025 15:27

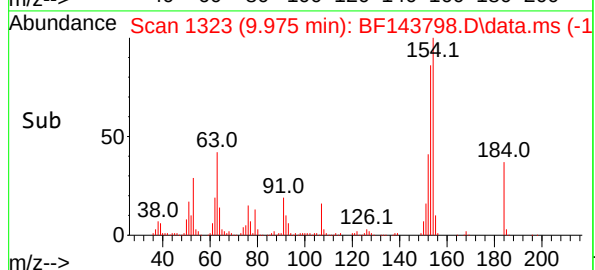
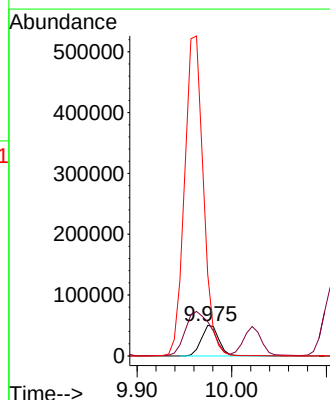
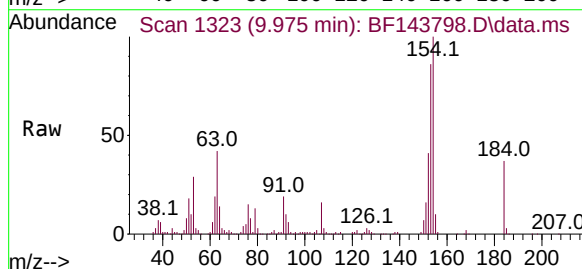
Tgt Ion:184 Resp: 64545

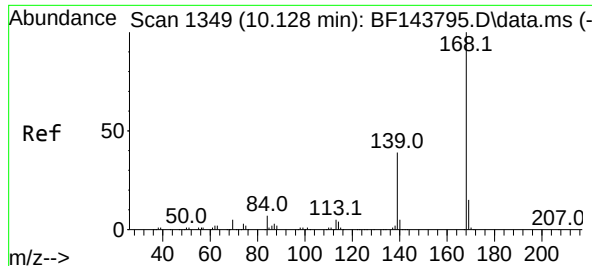
Ion Ratio Lower Upper

184 100

63 112.2 84.6 127.0

154 267.8 199.3 298.9





#55

Dibenzenofuran

Concen: 71.219 ng

RT: 10.133 min Scan# 1349

Delta R.T. 0.000 min

Lab File: BF143798.D

Acq: 23 Sep 2025 15:27

Instrument :

BNA\_F

ClientSampleId :

SSTDICC080

Tgt Ion:168 Resp: 101563

Ion Ratio Lower Upper

168 100

139 39.0 31.0 46.6

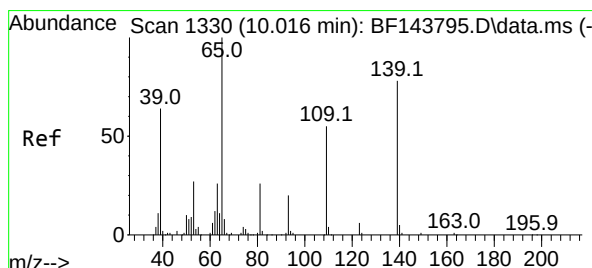
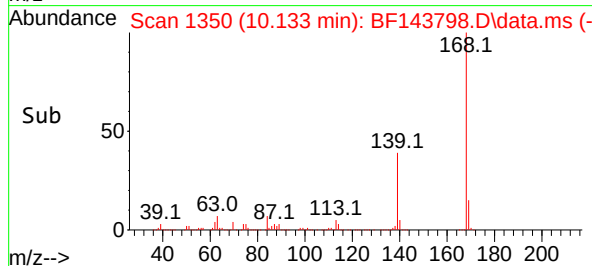
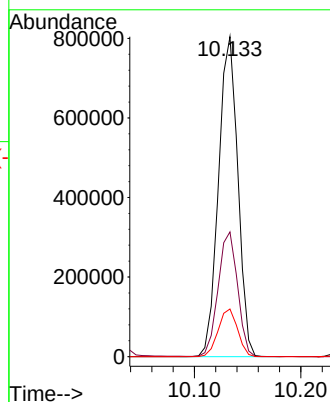
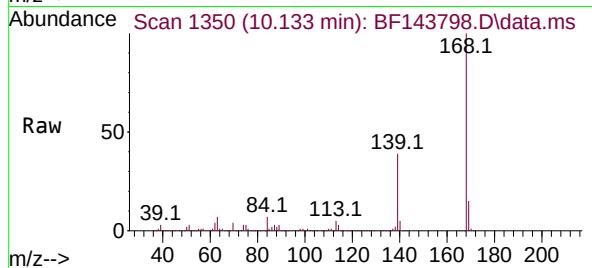
169 14.9 11.9 17.9

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#56

4-Nitrophenol

Concen: 85.785 ng

RT: 10.022 min Scan# 1331

Delta R.T. 0.000 min

Lab File: BF143798.D

Acq: 23 Sep 2025 15:27

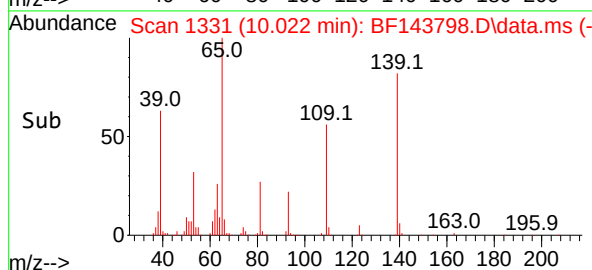
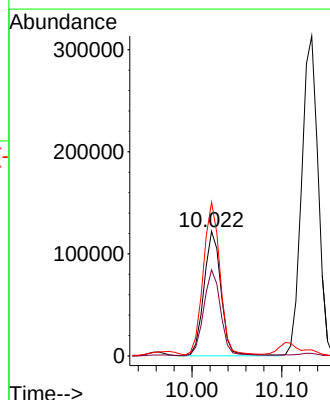
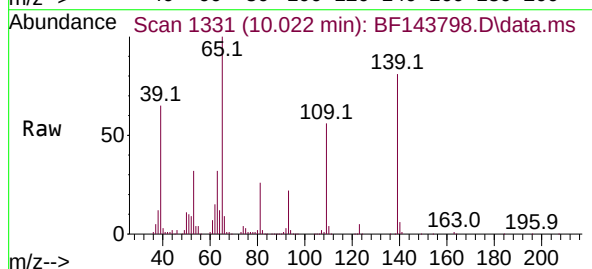
Tgt Ion:139 Resp: 160308

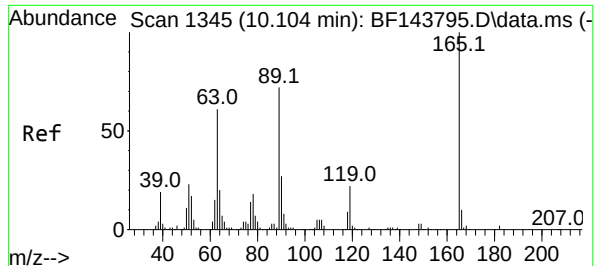
Ion Ratio Lower Upper

139 100

109 69.0 50.2 90.2

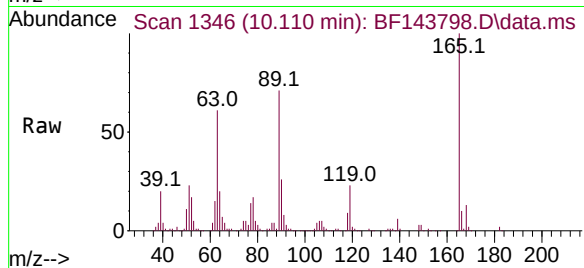
65 123.4 109.2 149.2





#57  
2,4-Dinitrotoluene  
Concen: 78.669 ng  
RT: 10.110 min Scan# 1345  
Delta R.T. -0.000 min  
Lab File: BF143798.D  
Acq: 23 Sep 2025 15:27

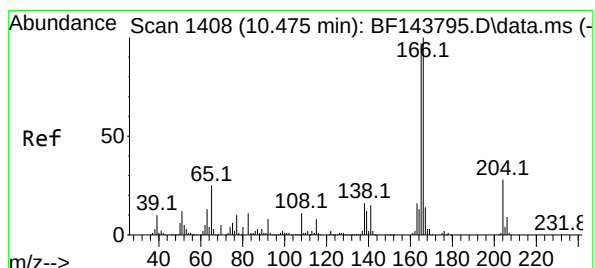
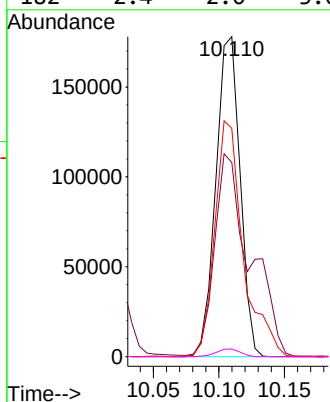
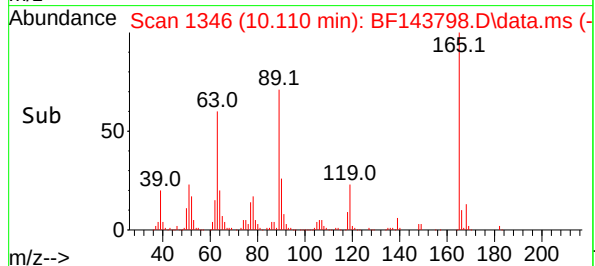
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC080



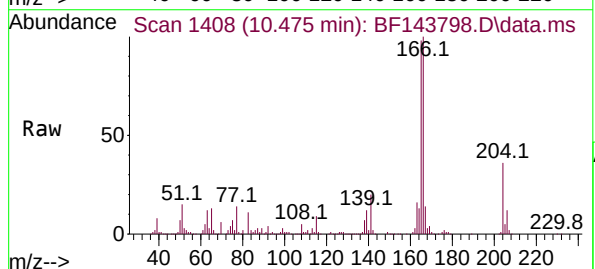
Tgt Ion:165 Resp: 229035  
Ion Ratio Lower Upper  
165 100  
63 60.7 48.9 73.3  
89 71.3 57.5 86.3  
182 2.4 2.0 3.0

Manual Integrations  
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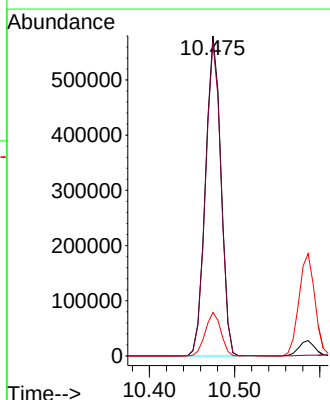
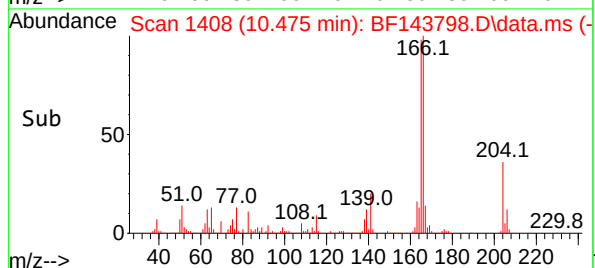
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025

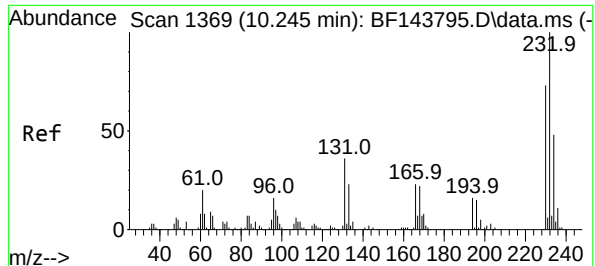


#58  
Fluorene  
Concen: 68.947 ng  
RT: 10.475 min Scan# 1408  
Delta R.T. 0.000 min  
Lab File: BF143798.D  
Acq: 23 Sep 2025 15:27



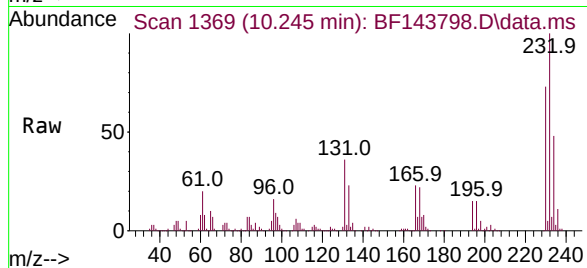
Tgt Ion:166 Resp: 730945  
Ion Ratio Lower Upper  
166 100  
165 98.0 78.0 117.0  
167 13.6 10.9 16.3





#59  
2,3,4,6-Tetrachlorophenol  
Concen: 83.157 ng  
RT: 10.245 min Scan# 1369  
Delta R.T. 0.000 min  
Lab File: BF143798.D  
Acq: 23 Sep 2025 15:27

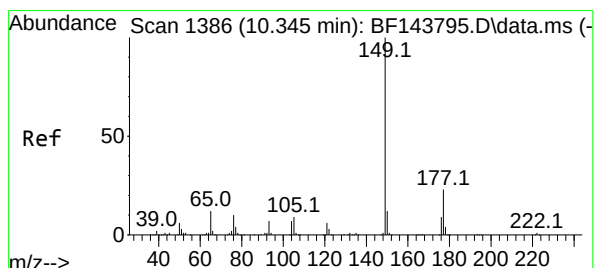
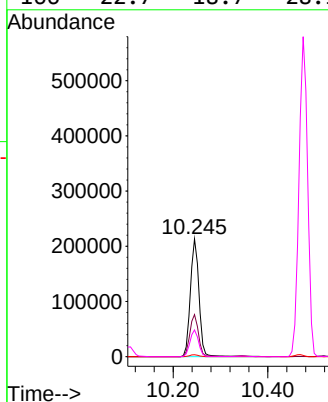
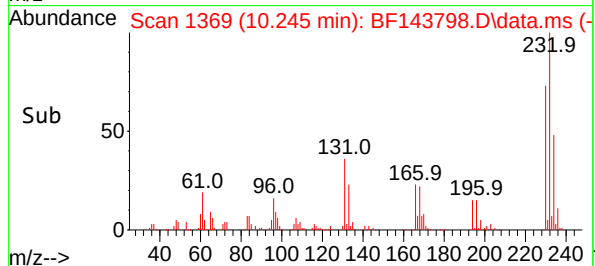
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC080



Tgt Ion:232 Resp: 269005  
Ion Ratio Lower Upper  
232 100  
131 35.7 29.4 44.2  
130 1.6 1.3 1.9  
166 22.7 18.7 28.1

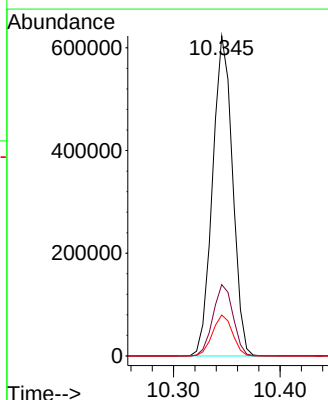
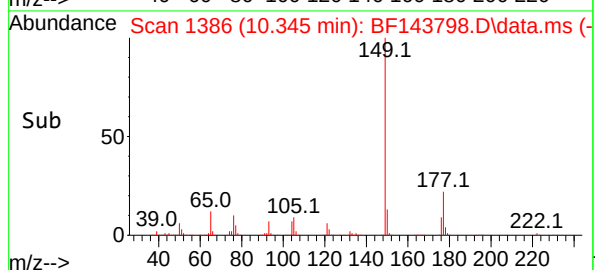
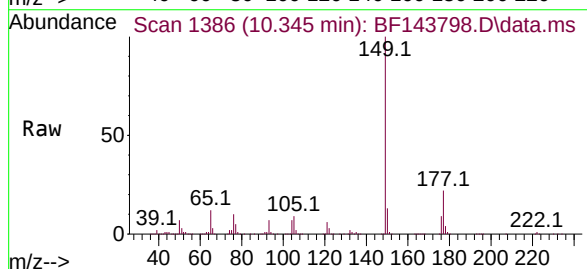
Manual Integrations  
APPROVED

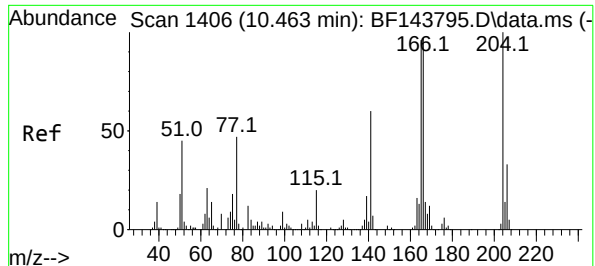
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#60  
Diethylphthalate  
Concen: 74.753 ng  
RT: 10.345 min Scan# 1386  
Delta R.T. 0.000 min  
Lab File: BF143798.D  
Acq: 23 Sep 2025 15:27

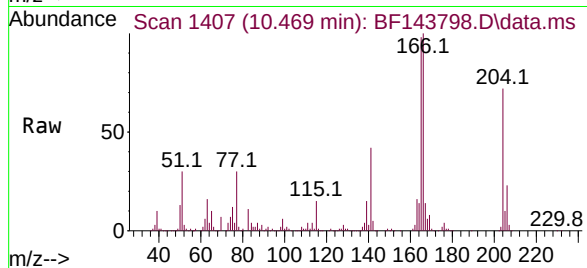
Tgt Ion:149 Resp: 814823  
Ion Ratio Lower Upper  
149 100  
177 22.3 18.1 27.1  
150 12.8 9.7 14.5





#61  
4-Chlorophenyl-phenylether  
Concen: 71.259 ng  
RT: 10.469 min Scan# 1406  
Delta R.T. 0.000 min  
Lab File: BF143798.D  
Acq: 23 Sep 2025 15:27

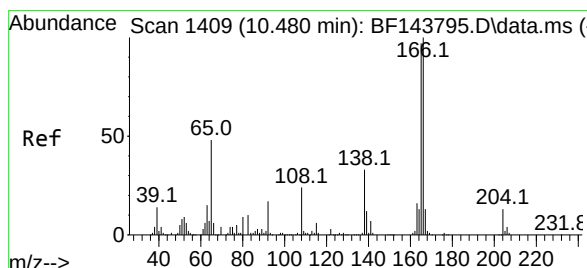
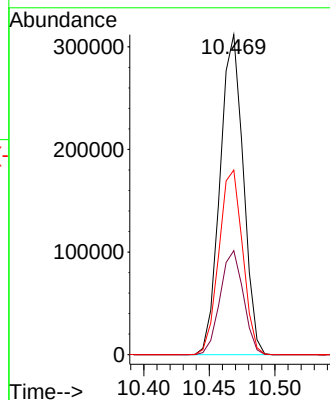
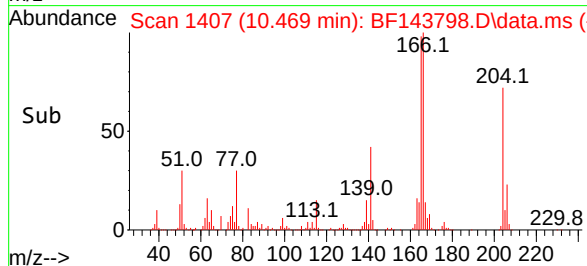
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC080



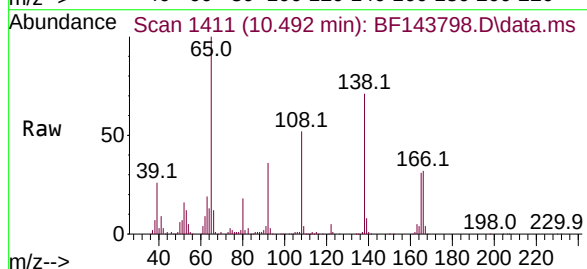
Tgt Ion:204 Resp: 384933  
Ion Ratio Lower Upper  
204 100  
206 32.5 26.7 40.1  
141 57.7 48.2 72.2

Manual Integrations  
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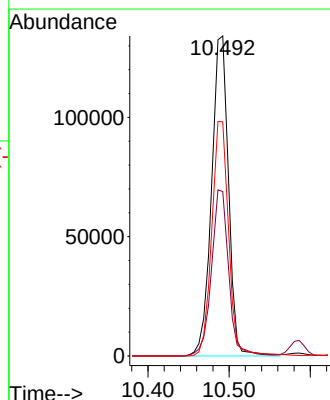
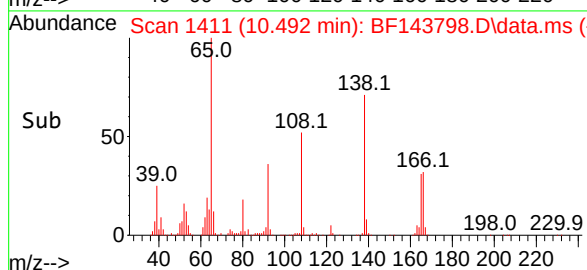
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025

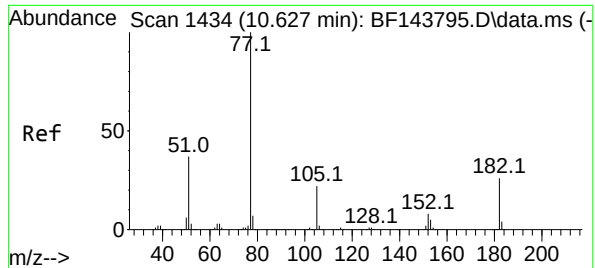


#62  
4-Nitroaniline  
Concen: 89.434 ng  
RT: 10.492 min Scan# 1411  
Delta R.T. 0.000 min  
Lab File: BF143798.D  
Acq: 23 Sep 2025 15:27



Tgt Ion:138 Resp: 195008  
Ion Ratio Lower Upper  
138 100  
92 51.4 31.5 71.5  
108 73.1 51.9 91.9





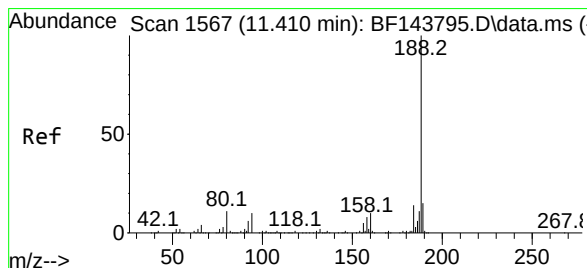
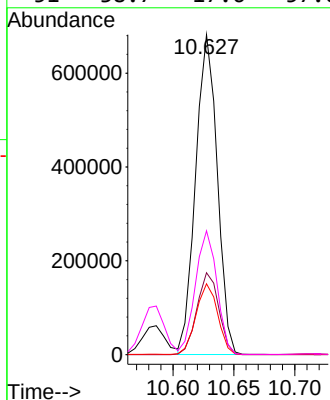
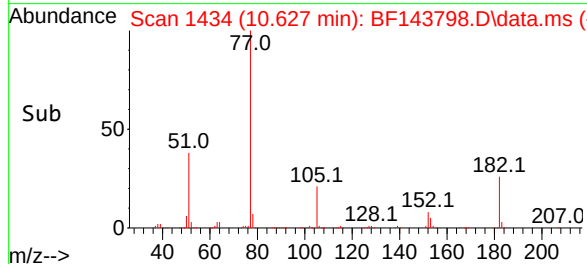
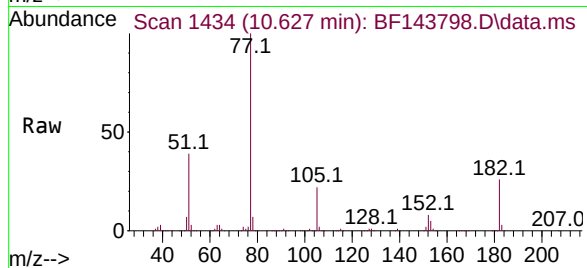
#63  
Azobenzene  
Concen: 73.264 ng  
RT: 10.627 min Scan# 1434  
Delta R.T. 0.000 min  
Lab File: BF143798.D  
Acq: 23 Sep 2025 15:27

Instrument :  
BNA\_F  
Client SampleId :  
SSTDICC080

Tgt Ion: 77 Resp: 841633  
Ion Ratio Lower Upper  
77 100  
182 25.6 5.9 45.9  
105 22.1 2.3 42.3  
51 38.7 17.6 57.6

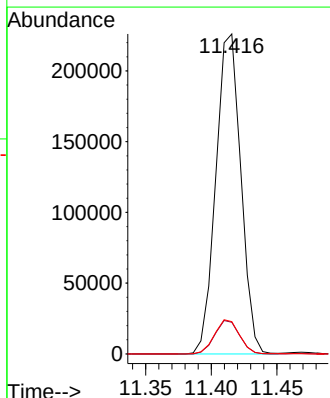
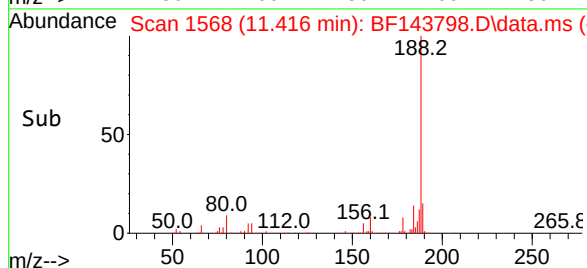
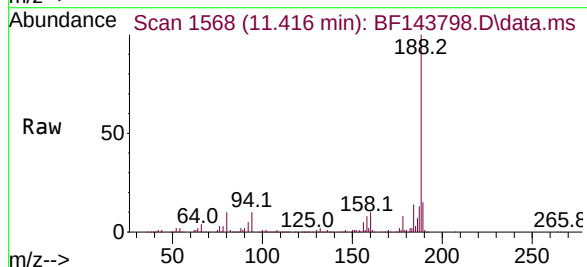
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Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025

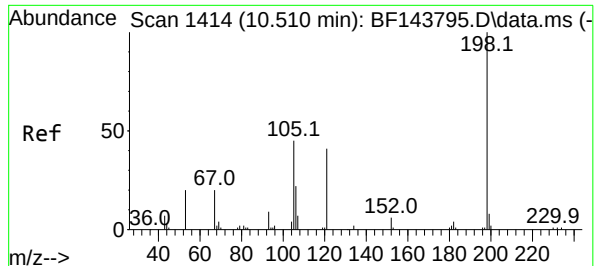


#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.416 min Scan# 1568  
Delta R.T. -0.000 min  
Lab File: BF143798.D  
Acq: 23 Sep 2025 15:27

Tgt Ion:188 Resp: 300725  
Ion Ratio Lower Upper  
188 100  
94 9.9 8.2 12.2  
80 10.1 8.6 12.8







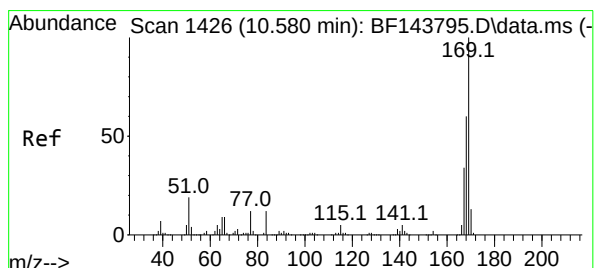
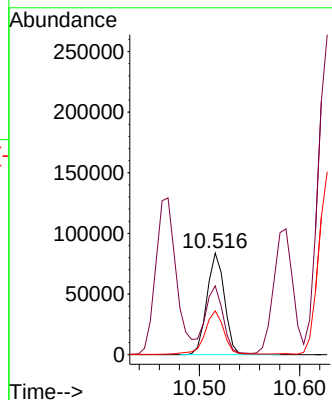
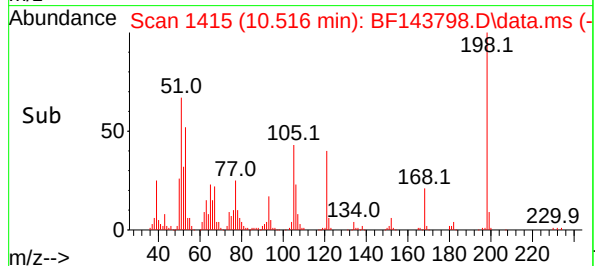
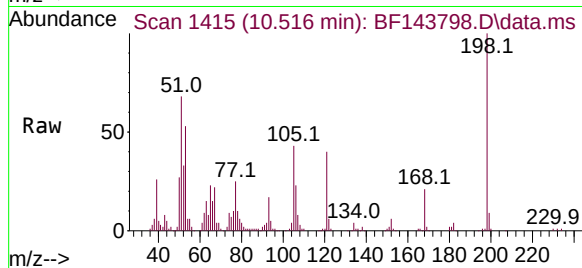
#65  
4,6-Dinitro-2-methylphenol  
Concen: 78.431 ng  
RT: 10.516 min Scan# 1414  
Delta R.T. -0.000 min  
Lab File: BF143798.D  
Acq: 23 Sep 2025 15:27

Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC080

Tgt Ion:198 Resp: 101519  
Ion Ratio Lower Upper  
198 100  
51 67.7 52.0 92.0  
105 43.2 27.5 67.5

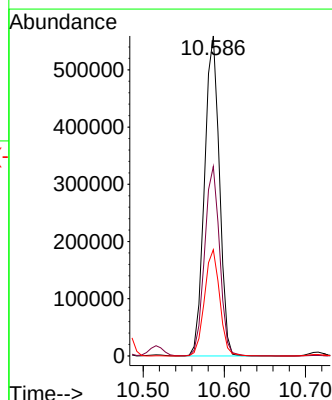
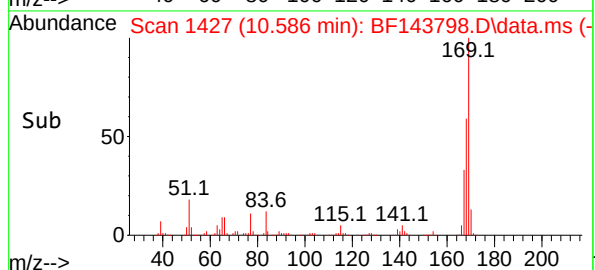
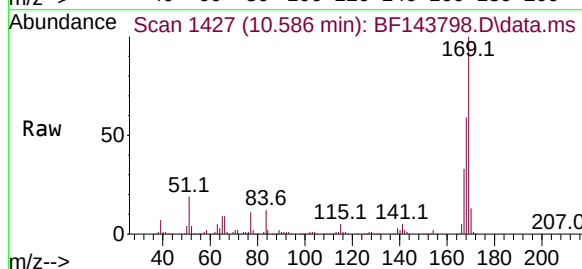
Manual Integrations  
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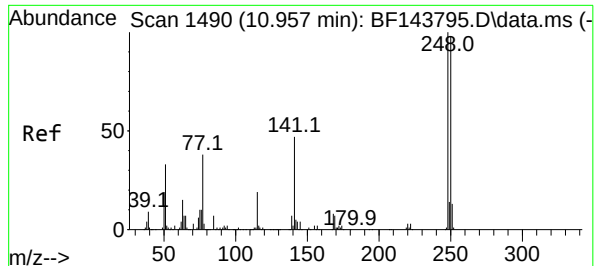
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#66  
n-Nitrosodiphenylamine  
Concen: 72.221 ng  
RT: 10.586 min Scan# 1427  
Delta R.T. 0.000 min  
Lab File: BF143798.D  
Acq: 23 Sep 2025 15:27

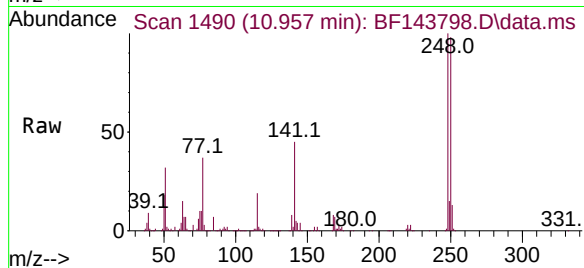
Tgt Ion:169 Resp: 714258  
Ion Ratio Lower Upper  
169 100  
168 59.2 47.9 71.9  
167 33.2 27.0 40.6





#67  
4-Bromophenyl-phenylether  
Concen: 75.954 ng  
RT: 10.957 min Scan# 1490  
Delta R.T. 0.000 min  
Lab File: BF143798.D  
Acq: 23 Sep 2025 15:27

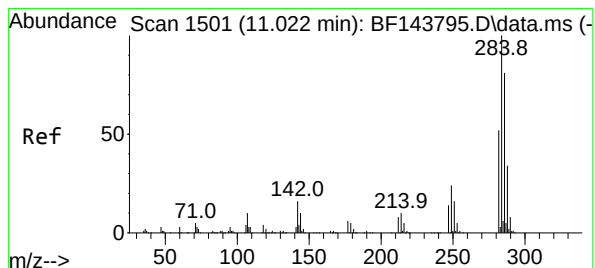
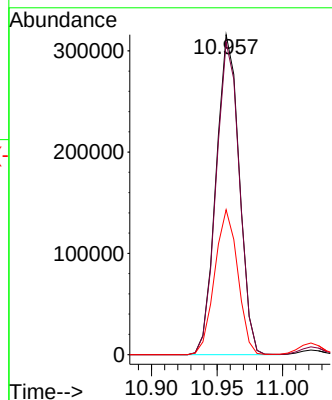
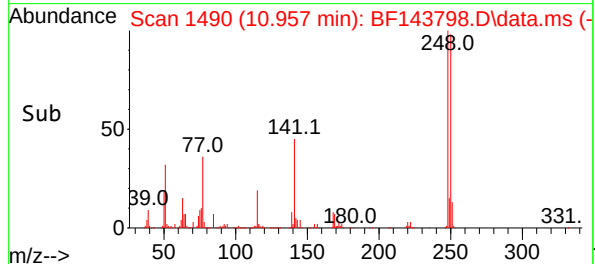
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC080



Tgt Ion:248 Resp: 389253  
Ion Ratio Lower Upper  
248 100  
250 97.7 78.7 118.1  
141 45.3 37.9 56.9

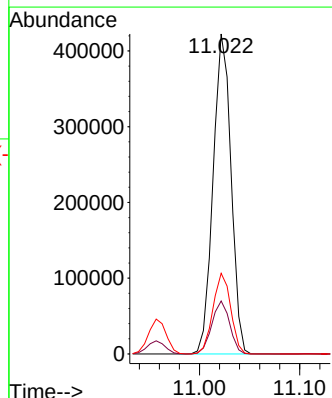
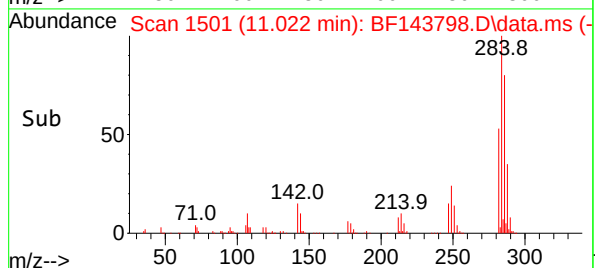
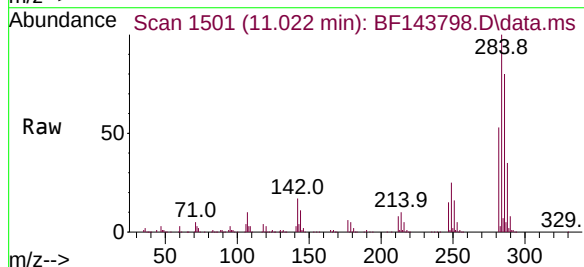
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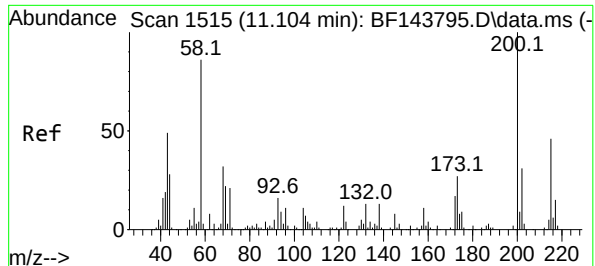
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#68  
Hexachlorobenzene  
Concen: 74.398 ng  
RT: 11.022 min Scan# 1501  
Delta R.T. 0.000 min  
Lab File: BF143798.D  
Acq: 23 Sep 2025 15:27

Tgt Ion:284 Resp: 525440  
Ion Ratio Lower Upper  
284 100  
142 16.5 13.1 19.7  
249 25.2 19.5 29.3





#69

Atrazine

Concen: 76.710 ng

RT: 11.110 min Scan# 1516

Delta R.T. 0.000 min

Lab File: BF143798.D

Acq: 23 Sep 2025 15:27

Instrument :

BNA\_F

ClientSampleId :

SSTDICC080

Tgt Ion:200 Resp: 219693

Ion Ratio Lower Upper

200 100

173 27.1 7.2 47.2

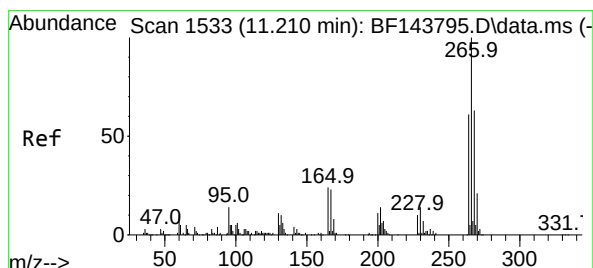
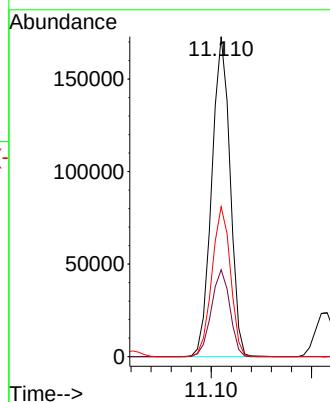
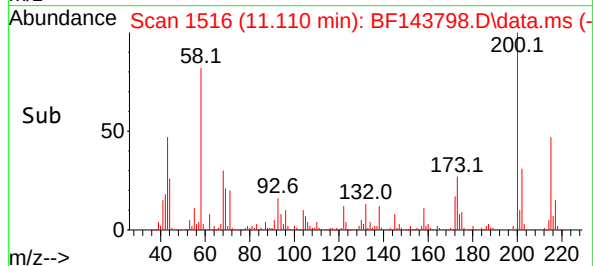
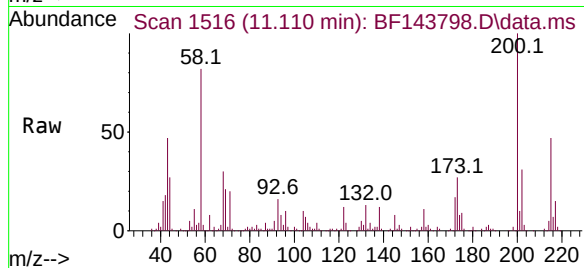
215 46.8 26.0 66.0

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Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#70

Pentachlorophenol

Concen: 88.529 ng

RT: 11.216 min Scan# 1534

Delta R.T. 0.000 min

Lab File: BF143798.D

Acq: 23 Sep 2025 15:27

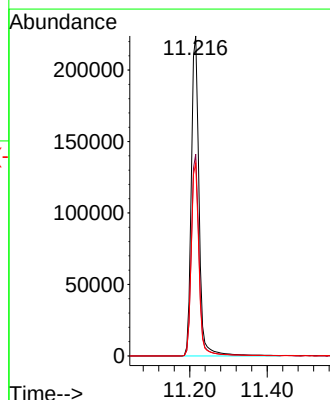
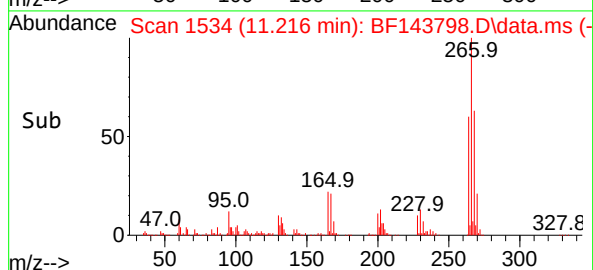
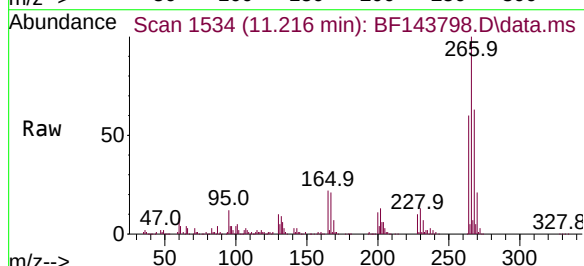
Tgt Ion:266 Resp: 311232

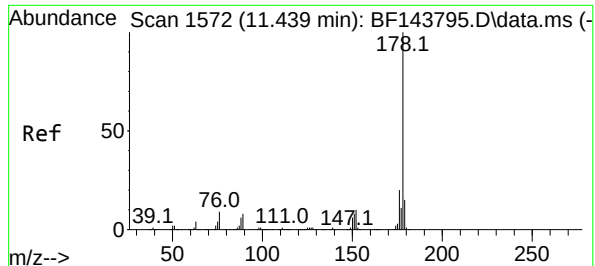
Ion Ratio Lower Upper

266 100

268 63.0 50.5 75.7

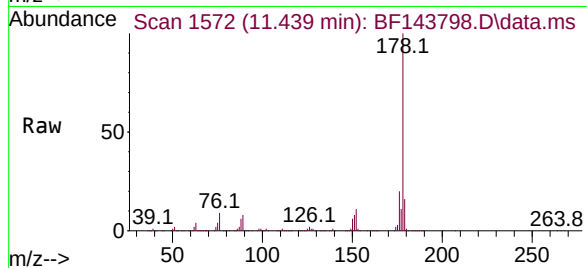
264 60.2 48.8 73.2





#71  
Phenanthrene  
Concen: 71.783 ng  
RT: 11.439 min Scan# 1572  
Delta R.T. 0.000 min  
Lab File: BF143798.D  
Acq: 23 Sep 2025 15:27

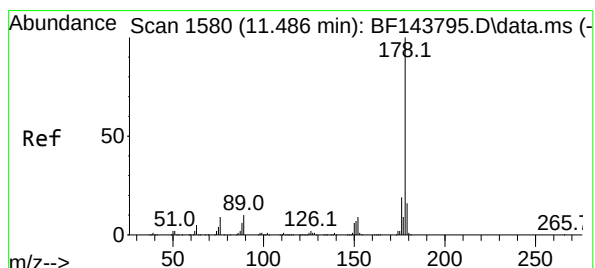
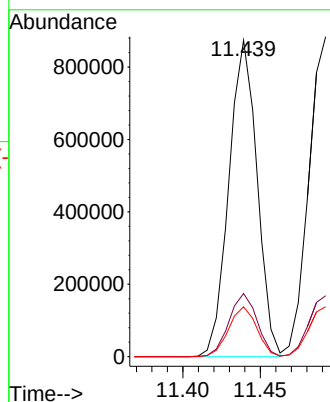
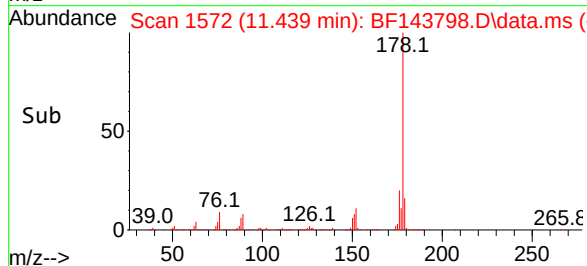
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC080



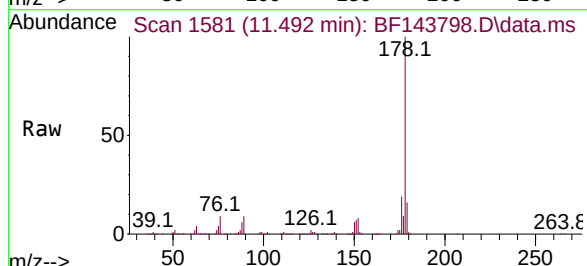
Tgt Ion:178 Resp: 1108268  
Ion Ratio Lower Upper  
178 100  
176 19.9 15.6 23.4  
179 15.8 12.2 18.4

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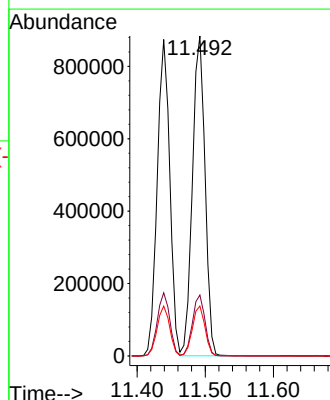
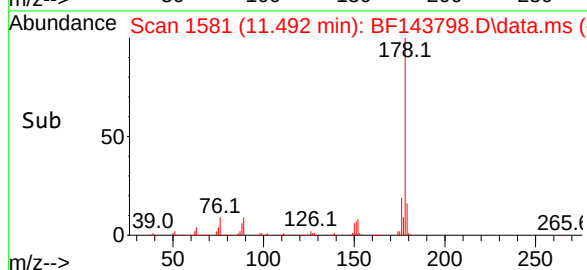
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025

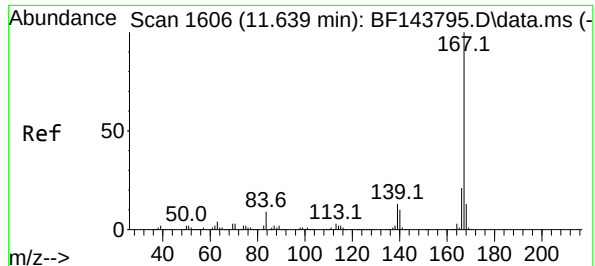


#72  
Anthracene  
Concen: 73.416 ng  
RT: 11.492 min Scan# 1581  
Delta R.T. 0.000 min  
Lab File: BF143798.D  
Acq: 23 Sep 2025 15:27



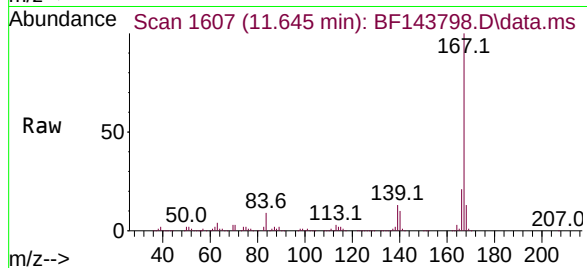
Tgt Ion:178 Resp: 1136970  
Ion Ratio Lower Upper  
178 100  
176 19.0 15.3 22.9  
179 15.6 12.8 19.2





#73  
Carbazole  
Concen: 75.229 ng  
RT: 11.645 min Scan# 1607  
Delta R.T. 0.000 min  
Lab File: BF143798.D  
Acq: 23 Sep 2025 15:27

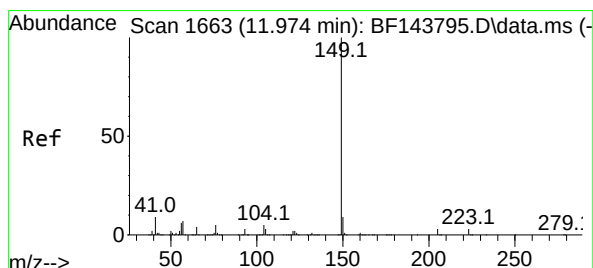
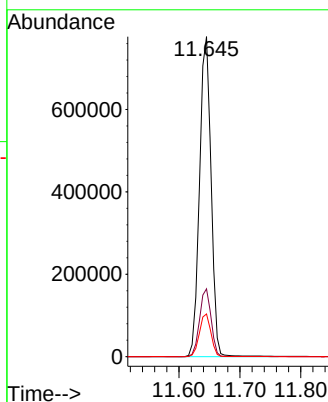
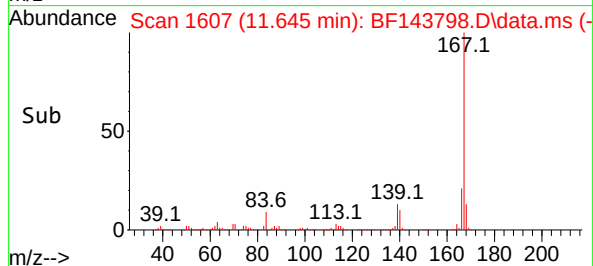
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC080



Tgt Ion:167 Resp: 1018624  
Ion Ratio Lower Upper  
167 100  
166 21.2 17.0 25.4  
139 13.3 10.6 15.8

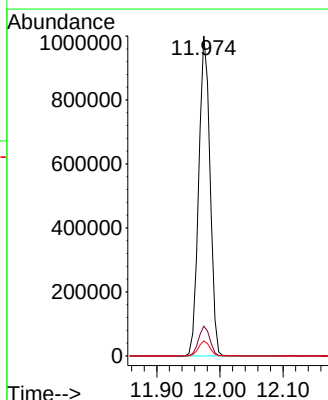
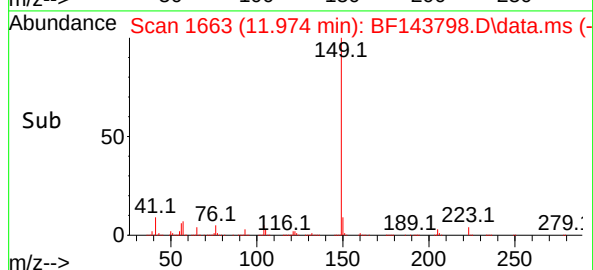
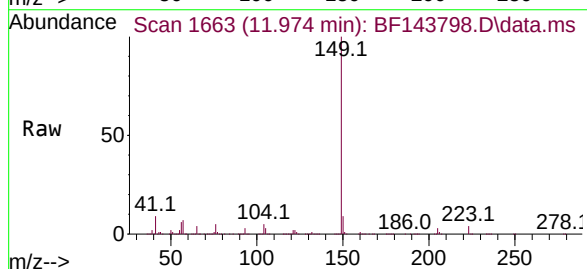
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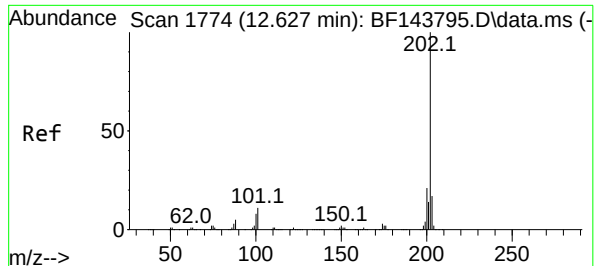
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#74  
Di-n-butylphthalate  
Concen: 79.613 ng  
RT: 11.974 min Scan# 1663  
Delta R.T. 0.000 min  
Lab File: BF143798.D  
Acq: 23 Sep 2025 15:27

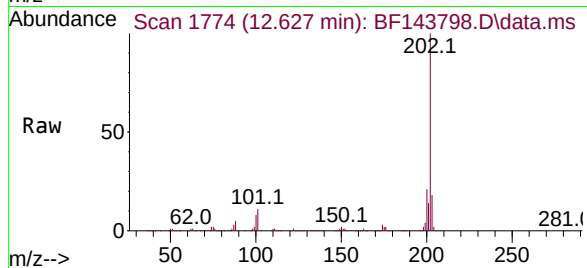
Tgt Ion:149 Resp: 1239778  
Ion Ratio Lower Upper  
149 100  
150 9.3 7.3 10.9  
104 4.7 3.6 5.4





#75  
Fluoranthene  
Concen: 78.389 ng  
RT: 12.627 min Scan# 1174  
Delta R.T. 0.000 min  
Lab File: BF143798.D  
Acq: 23 Sep 2025 15:27

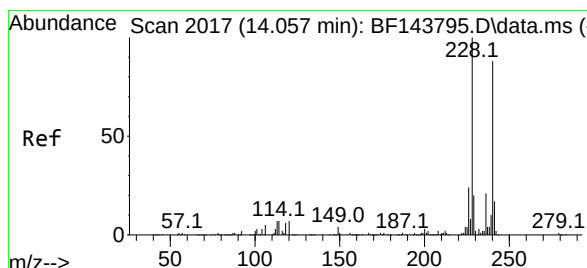
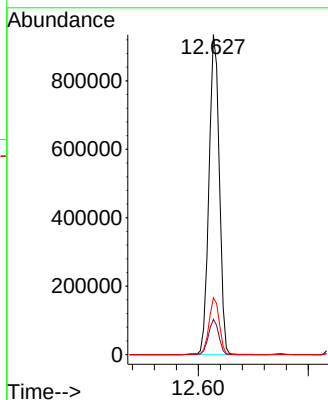
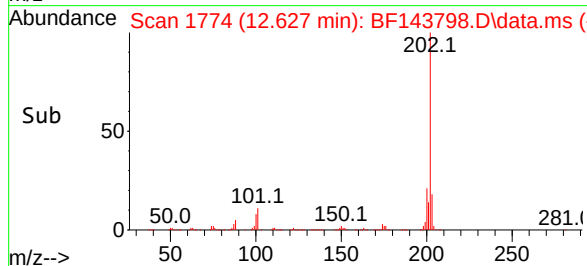
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC080



Tgt Ion:202 Resp: 1217249  
Ion Ratio Lower Upper  
202 100  
101 11.0 0.0 31.1  
203 17.8 0.0 37.4

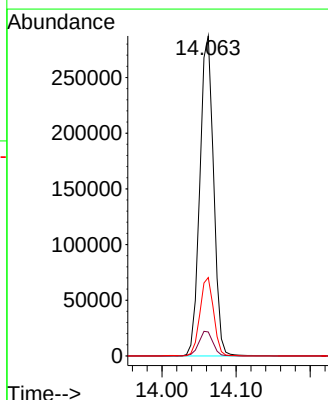
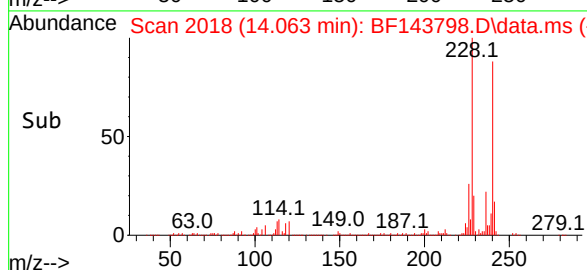
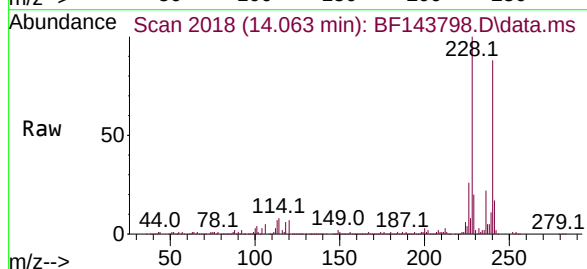
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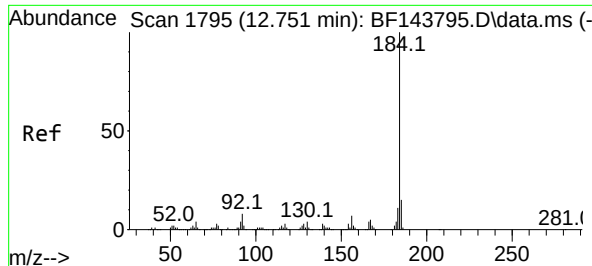
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.063 min Scan# 2018  
Delta R.T. 0.000 min  
Lab File: BF143798.D  
Acq: 23 Sep 2025 15:27

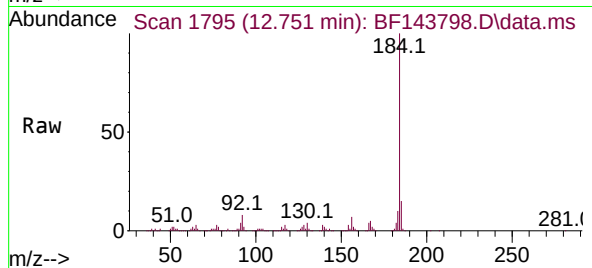
Tgt Ion:240 Resp: 368976  
Ion Ratio Lower Upper  
240 100  
120 7.5 6.2 9.4  
236 24.5 19.4 29.2





#77  
Benzidine  
Concen: 66.788 ng  
RT: 12.751 min Scan# 1795  
Delta R.T. 0.000 min  
Lab File: BF143798.D  
Acq: 23 Sep 2025 15:27

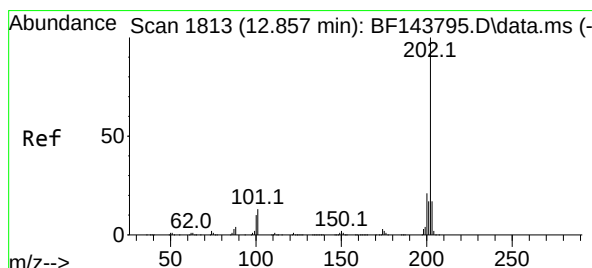
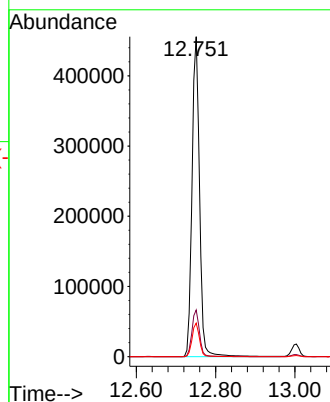
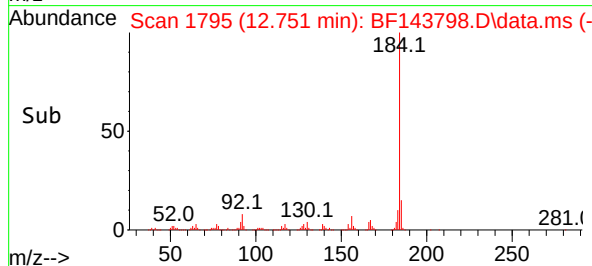
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC080



Tgt Ion:184 Resp: 600496  
Ion Ratio Lower Upper  
184 100  
185 14.6 11.6 17.4  
183 10.5 8.6 13.0

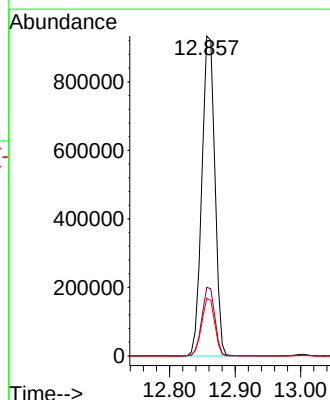
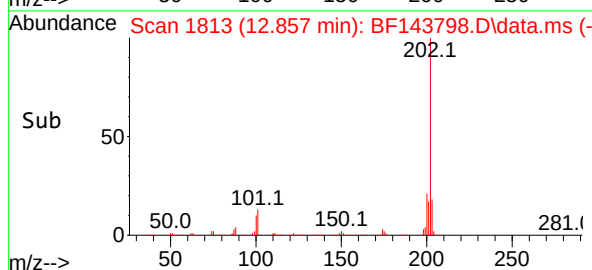
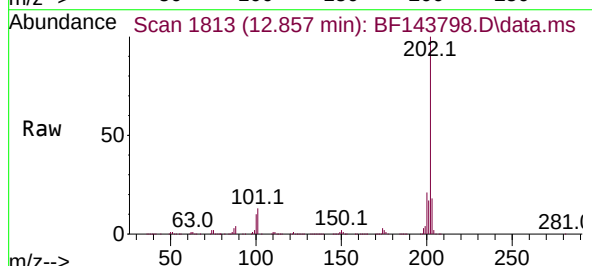
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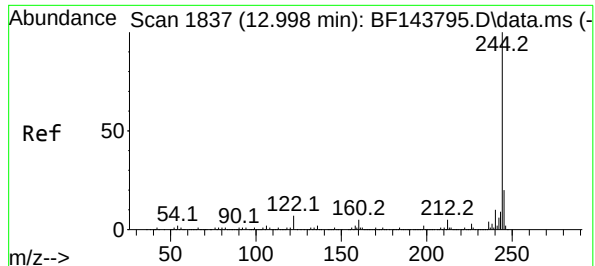
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#78  
Pyrene  
Concen: 70.553 ng  
RT: 12.857 min Scan# 1813  
Delta R.T. 0.000 min  
Lab File: BF143798.D  
Acq: 23 Sep 2025 15:27

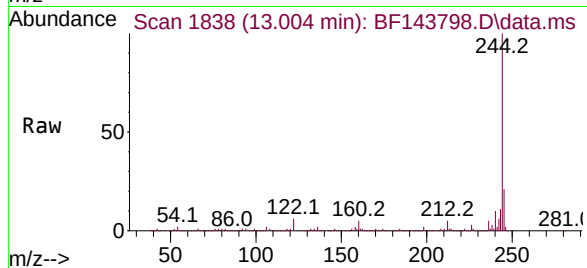
Tgt Ion:202 Resp: 1279855  
Ion Ratio Lower Upper  
202 100  
200 21.4 17.0 25.4  
203 18.0 13.9 20.9





#79  
Terphenyl-d14  
Concen: 133.790 ng  
RT: 13.004 min Scan# 1838  
Delta R.T. 0.000 min  
Lab File: BF143798.D  
Acq: 23 Sep 2025 15:27

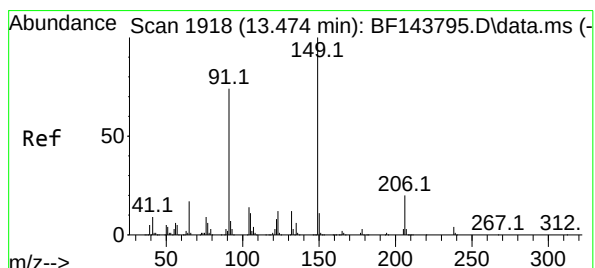
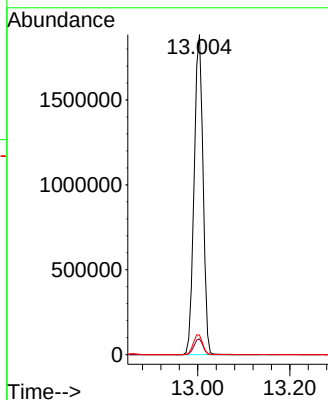
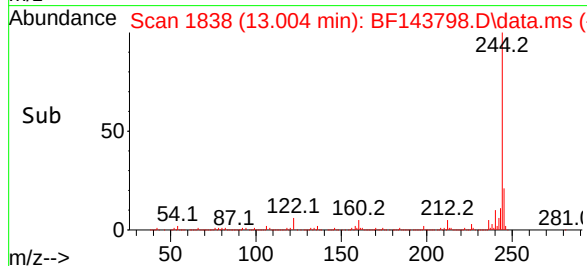
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC080



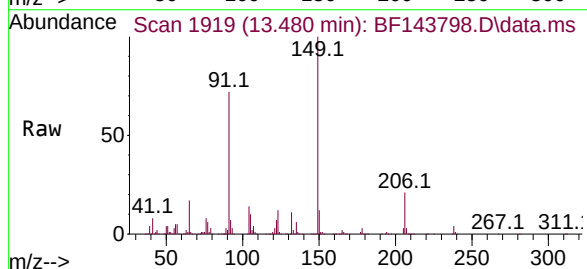
Tgt Ion:244 Resp: 251440  
Ion Ratio Lower Upper  
244 100  
212 4.9 3.9 5.9  
122 6.1 5.6 8.4

Manual Integrations  
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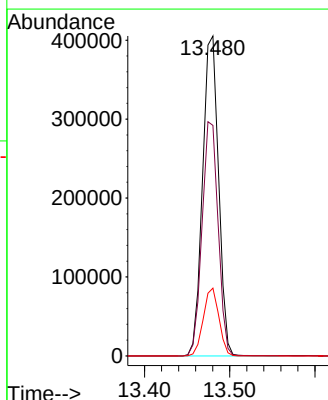
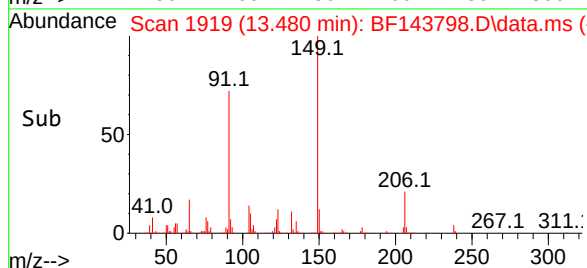
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



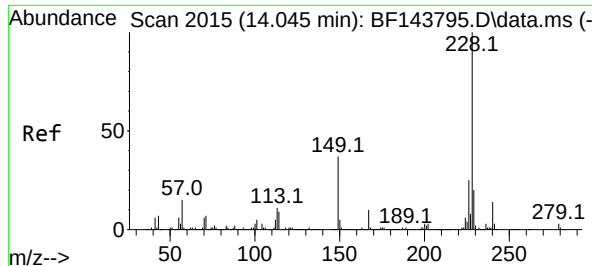
#80  
Butylbenzylphthalate  
Concen: 84.139 ng  
RT: 13.480 min Scan# 1919  
Delta R.T. 0.000 min  
Lab File: BF143798.D  
Acq: 23 Sep 2025 15:27



Tgt Ion:149 Resp: 528060  
Ion Ratio Lower Upper  
149 100  
91 72.0 59.5 89.3  
206 21.2 16.1 24.1







#81

Benzo(a)anthracene

Concen: 74.057 ng

RT: 14.051 min Scan# 2016

Delta R.T. 0.000 min

Lab File: BF143798.D

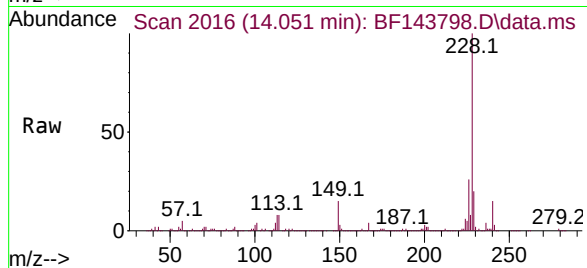
Acq: 23 Sep 2025 15:27

Instrument :

BNA\_F

ClientSampleId :

SSTDICC080



Tgt Ion:228 Resp: 1467968

Ion Ratio Lower Upper

228 100

226 25.8 20.2 30.2

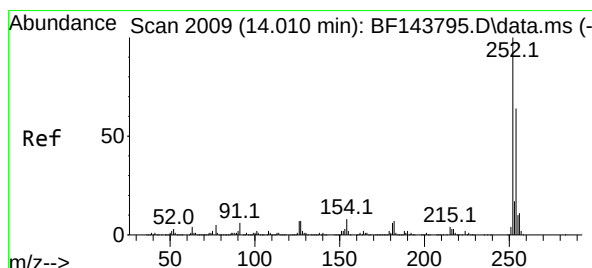
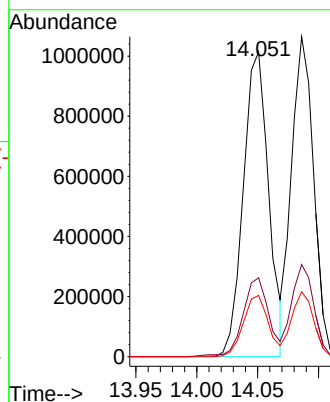
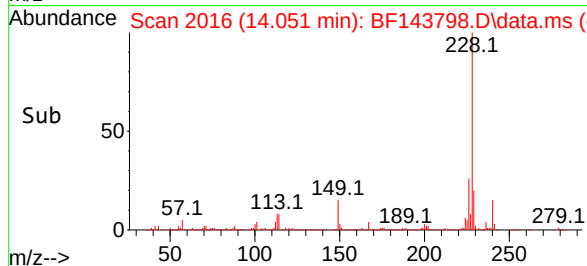
229 20.1 16.1 24.1

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#82

3,3'-Dichlorobenzidine

Concen: 80.036 ng

RT: 14.010 min Scan# 2009

Delta R.T. 0.000 min

Lab File: BF143798.D

Acq: 23 Sep 2025 15:27

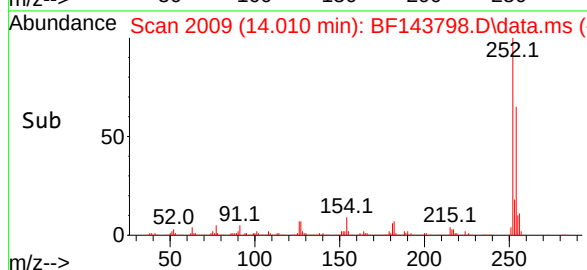
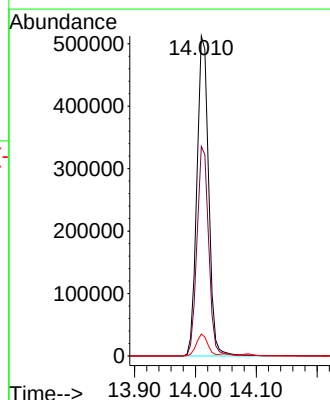
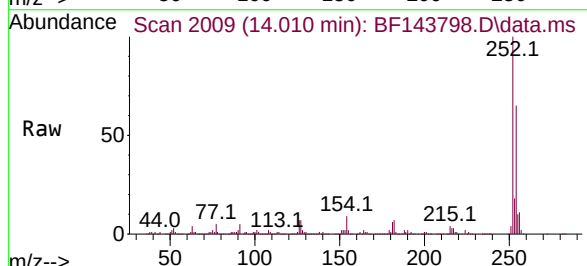
Tgt Ion:252 Resp: 687295

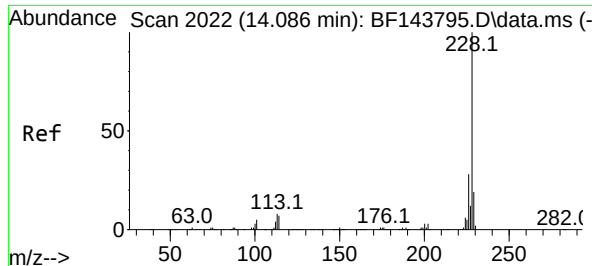
Ion Ratio Lower Upper

252 100

254 65.5 51.5 77.3

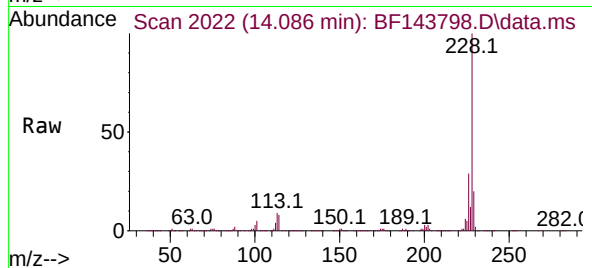
126 6.8 5.4 8.2





#83  
Chrysene  
Concen: 75.382 ng  
RT: 14.086 min Scan# 2022  
Delta R.T. 0.000 min  
Lab File: BF143798.D  
Acq: 23 Sep 2025 15:27

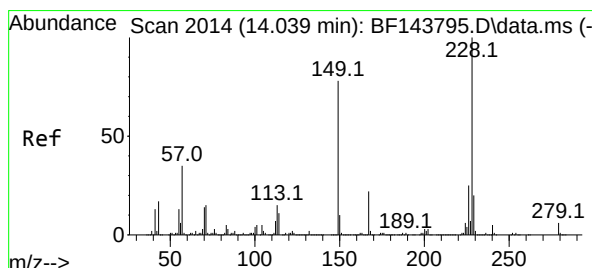
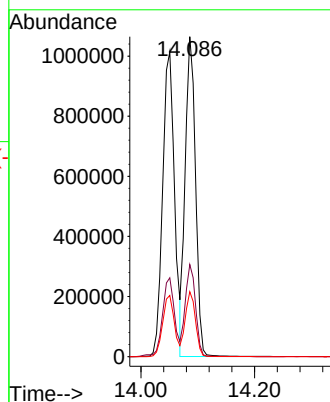
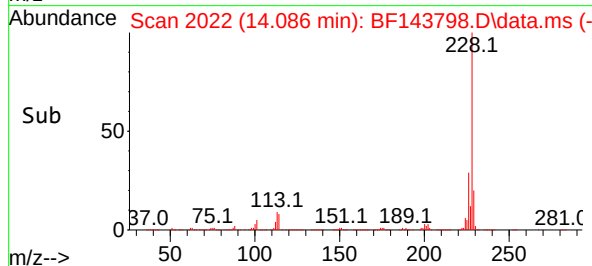
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC080



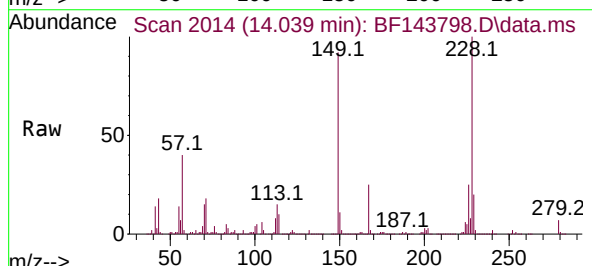
Tgt Ion:228 Resp: 1352072  
Ion Ratio Lower Upper  
228 100  
226 28.8 22.6 33.8  
229 20.3 15.6 23.4

Manual Integrations  
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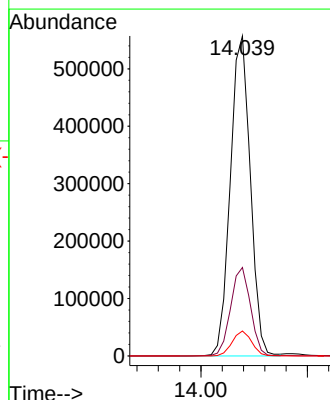
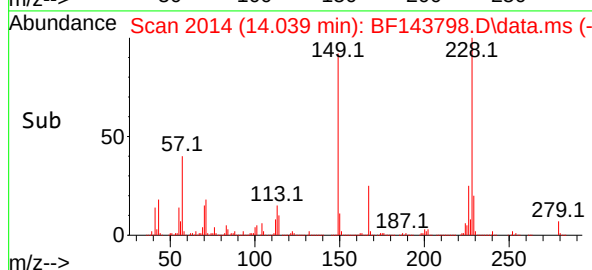
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025

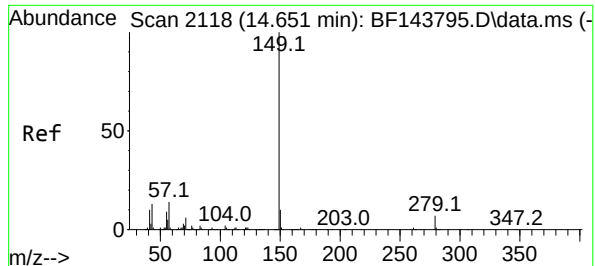


#84  
Bis(2-ethylhexyl)phthalate  
Concen: 78.996 ng  
RT: 14.039 min Scan# 2014  
Delta R.T. 0.000 min  
Lab File: BF143798.D  
Acq: 23 Sep 2025 15:27



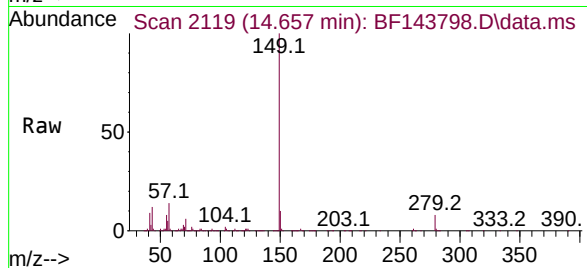
Tgt Ion:149 Resp: 726710  
Ion Ratio Lower Upper  
149 100  
167 27.6 22.2 33.2  
279 7.8 6.0 9.0





#85  
Di-n-octyl phthalate  
Concen: 82.239 ng  
RT: 14.657 min Scan# 2119  
Delta R.T. 0.000 min  
Lab File: BF143798.D  
Acq: 23 Sep 2025 15:27

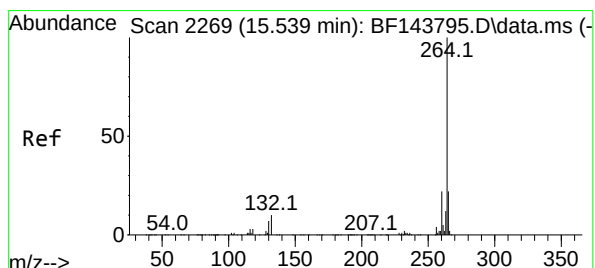
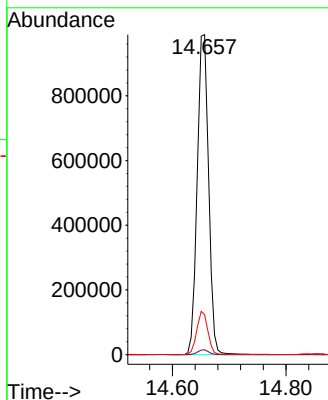
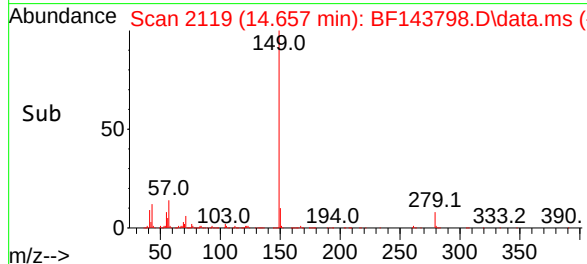
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC080



Tgt Ion:149 Resp: 1372332  
Ion Ratio Lower Upper  
149 100  
167 1.5 1.1 1.7  
43 13.2 10.7 16.1

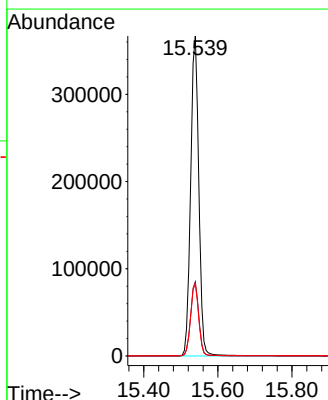
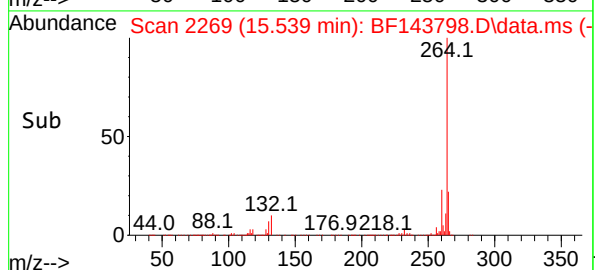
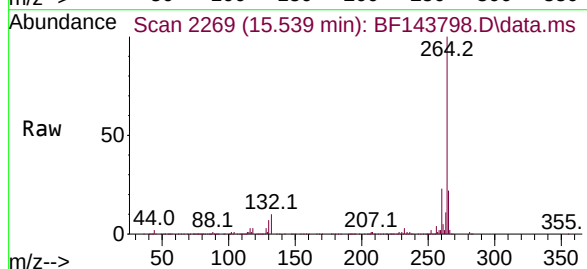
Manual Integrations  
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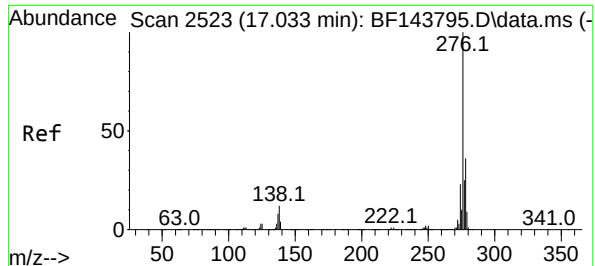
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.539 min Scan# 2269  
Delta R.T. 0.000 min  
Lab File: BF143798.D  
Acq: 23 Sep 2025 15:27

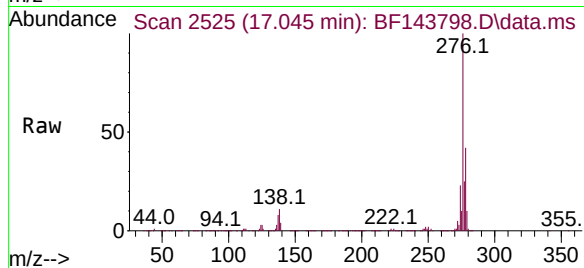
Tgt Ion:264 Resp: 561861  
Ion Ratio Lower Upper  
264 100  
260 23.2 17.9 26.9  
265 22.4 17.7 26.5





#87  
Indeno(1,2,3-cd)pyrene  
Concen: 77.396 ng  
RT: 17.045 min Scan# 2523  
Delta R.T. 0.000 min  
Lab File: BF143798.D  
Acq: 23 Sep 2025 15:27

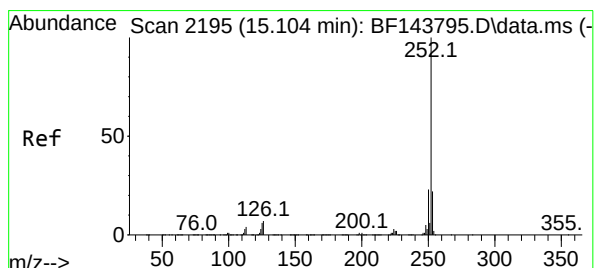
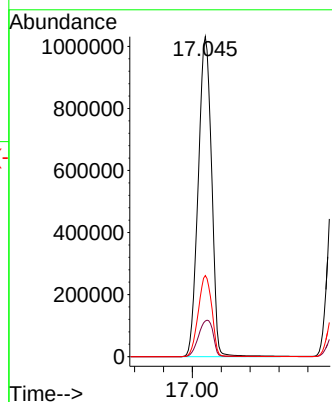
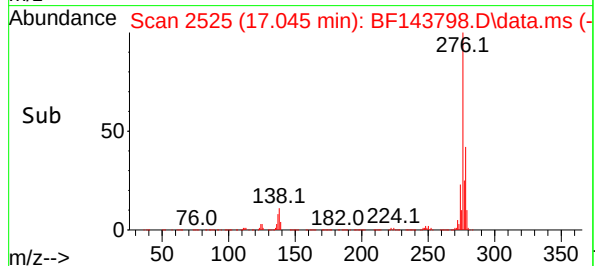
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDICC080



Tgt Ion:276 Resp: 3299429  
Ion Ratio Lower Upper  
276 100  
138 12.4 10.6 15.8  
277 25.7 20.7 31.1

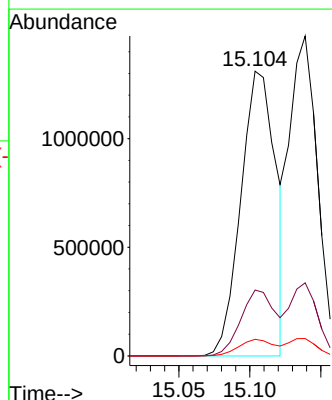
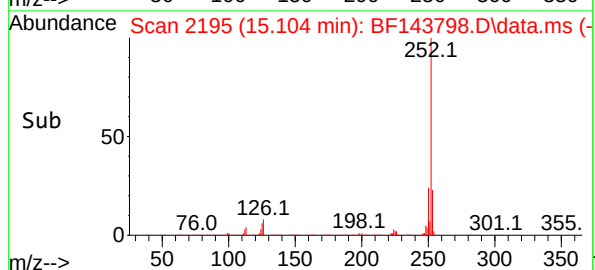
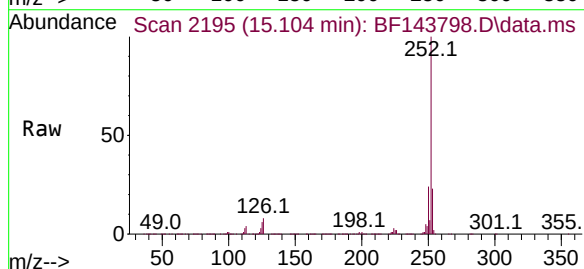
Manual Integrations  
APPROVED

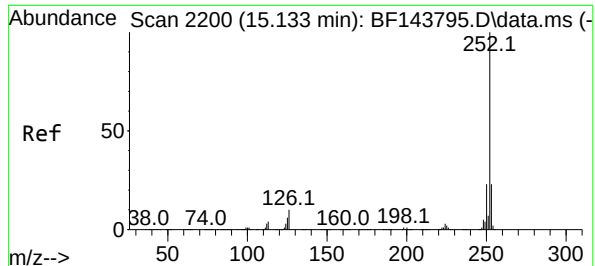
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#88  
Benzo(b)fluoranthene  
Concen: 78.555 ng  
RT: 15.104 min Scan# 2195  
Delta R.T. 0.000 min  
Lab File: BF143798.D  
Acq: 23 Sep 2025 15:27

Tgt Ion:252 Resp: 2247670  
Ion Ratio Lower Upper  
252 100  
253 23.1 17.8 26.8  
125 5.8 4.4 6.6





#89

Benzo(k)fluoranthene

Concen: 70.756 ng

RT: 15.139 min Scan# 2200

Delta R.T. 0.000 min

Lab File: BF143798.D

Acq: 23 Sep 2025 15:27

Instrument :

BNA\_F

ClientSampleId :

SSTDICC080

Tgt Ion:252 Resp: 2033980

Ion Ratio Lower Upper

252 100

253 22.8 17.9 26.9

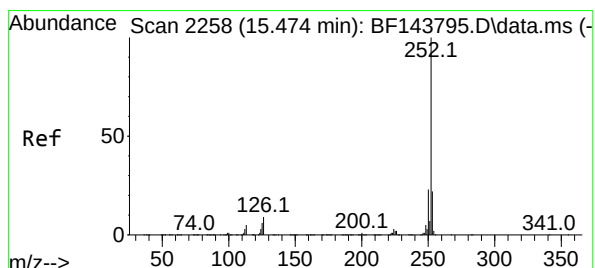
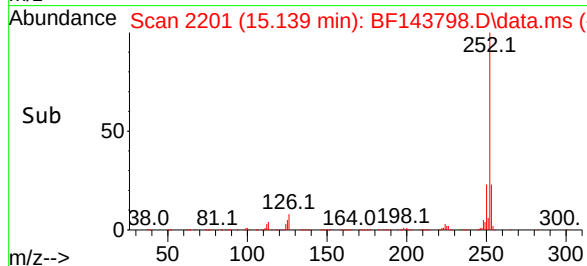
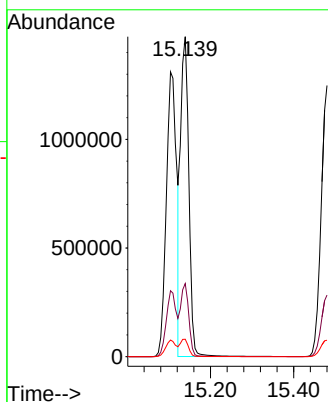
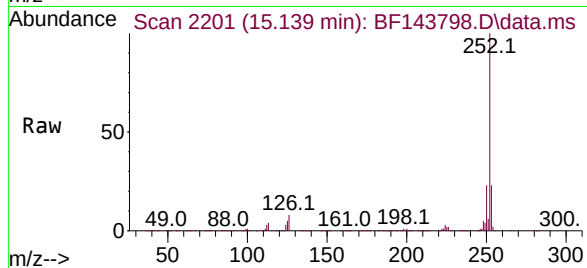
125 5.4 4.6 6.8

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#90

Benzo(a)pyrene

Concen: 76.712 ng

RT: 15.480 min Scan# 2259

Delta R.T. 0.000 min

Lab File: BF143798.D

Acq: 23 Sep 2025 15:27

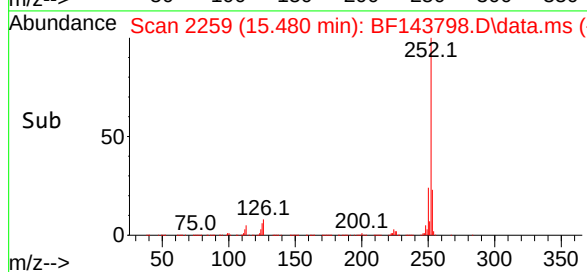
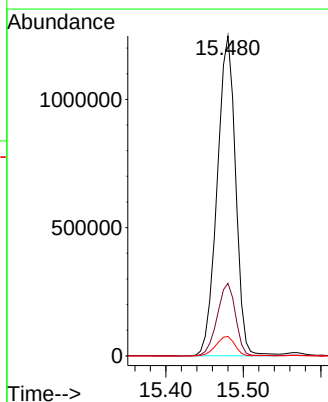
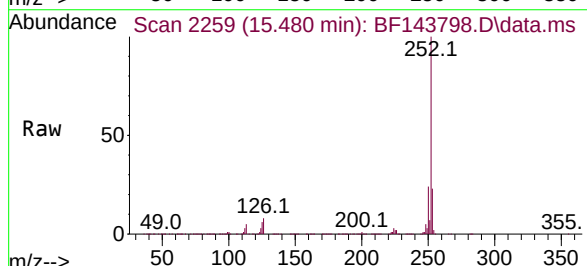
Tgt Ion:252 Resp: 2063204

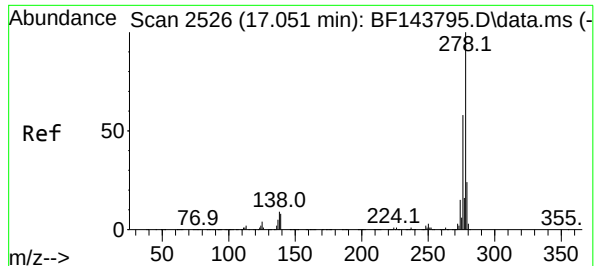
Ion Ratio Lower Upper

252 100

253 22.7 17.6 26.4

125 6.1 5.0 7.4





#91

Dibenzo(a,h)anthracene

Concen: 75.178 ng

RT: 17.068 min Scan# 2526

Delta R.T. 0.000 min

Lab File: BF143798.D

Acq: 23 Sep 2025 15:27

Instrument :

BNA\_F

ClientSampleId :

SSTDICC080

Tgt Ion:278 Resp: 2621312

Ion Ratio Lower Upper

278 100

139 7.9 6.7 10.1

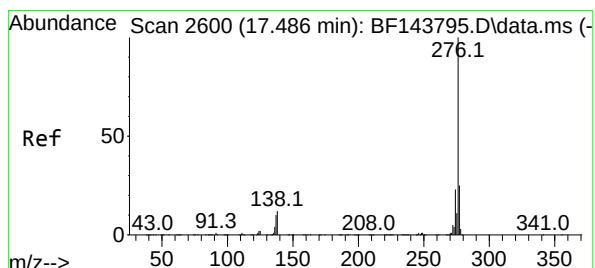
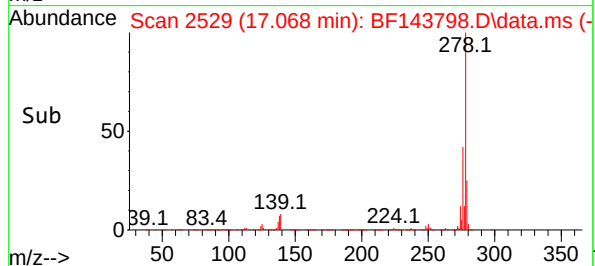
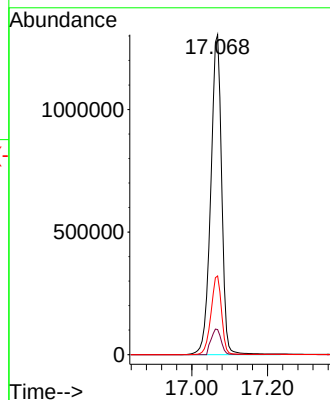
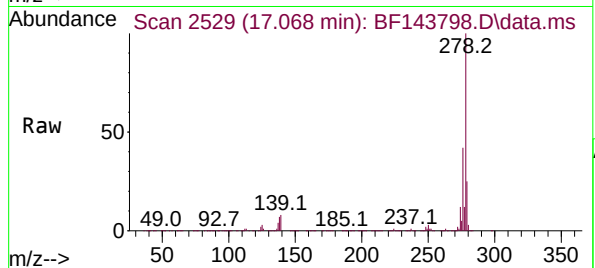
279 24.6 19.3 28.9

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#92

Benzo(g,h,i)perylene

Concen: 78.108 ng

RT: 17.503 min Scan# 2603

Delta R.T. 0.000 min

Lab File: BF143798.D

Acq: 23 Sep 2025 15:27

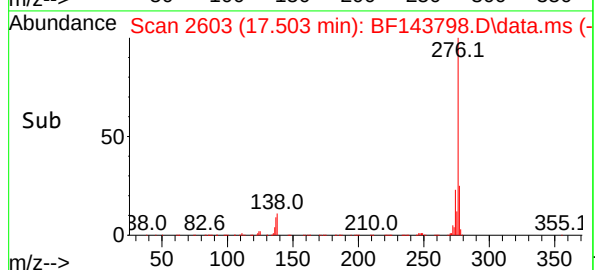
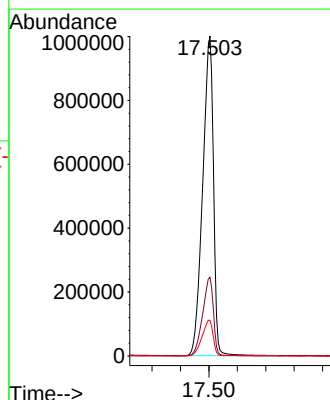
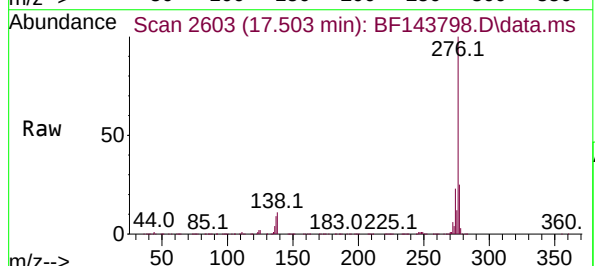
Tgt Ion:276 Resp: 2625358

Ion Ratio Lower Upper

276 100

277 24.6 19.6 29.4

138 11.1 9.2 13.8



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF092325\  
 Data File : BF143799.D  
 Acq On : 23 Sep 2025 17:42  
 Operator : RC/JU  
 Sample : SSTDICV040  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

## Instrument :

BNA\_F

## ClientSampleId :

ICVBF092325

## Manual Integrations

## APPROVED

Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025

Quant Time: Sep 23 18:09:57 2025

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF092325.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Tue Sep 23 17:50:26 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.887  | 152  | 109221   | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8            | 8.169  | 136  | 390323   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10          | 9.922  | 164  | 191064   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10          | 11.410 | 188  | 302827   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12              | 14.057 | 240  | 375572   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12              | 15.533 | 264  | 528363   | 20.000 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.493  | 112  | 587541   | 86.573 | ng    | 0.00     |
| 7) Phenol-d6                  | 6.504  | 99   | 655490   | 81.847 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 7.445  | 82   | 563159   | 90.799 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 10.710 | 330  | 260676   | 95.600 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 9.245  | 172  | 1032314  | 79.843 | ng    | 0.00     |
| 79) Terphenyl-d14             | 12.998 | 244  | 1544756  | 80.752 | ng    | 0.00     |
| Target Compounds              |        |      |          |        |       |          |
|                               |        |      |          |        |       | Qvalue   |
| 2) 1,4-Dioxane                | 2.628  | 88   | 140442   | 43.647 | ng    | 99       |
| 3) Pyridine                   | 3.399  | 79   | 373668   | 43.022 | ng    | 99       |
| 4) n-Nitrosodimethylamine     | 3.340  | 42   | 184836   | 42.441 | ng    | 99       |
| 6) Aniline                    | 6.546  | 93   | 468886   | 41.592 | ng    | 99       |
| 8) 2-Chlorophenol             | 6.669  | 128  | 292186   | 42.456 | ng    | 99       |
| 9) Benzaldehyde               | 6.440  | 77   | 317430   | 46.667 | ng    | 96       |
| 10) Phenol                    | 6.516  | 94   | 378799m  | 41.956 | ng    |          |
| 11) bis(2-Chloroethyl)ether   | 6.616  | 93   | 296472   | 41.891 | ng    | 99       |
| 12) 1,3-Dichlorobenzene       | 6.828  | 146  | 337770   | 42.271 | ng    | 100      |
| 13) 1,4-Dichlorobenzene       | 6.904  | 146  | 333799   | 41.859 | ng    | 99       |
| 14) 1,2-Dichlorobenzene       | 7.057  | 146  | 315213   | 41.736 | ng    | 99       |
| 15) Benzyl Alcohol            | 7.022  | 79   | 238857   | 42.558 | ng    | 99       |
| 16) 2,2'-oxybis(1-Chloropr... | 7.157  | 45   | 702630   | 41.868 | ng    | 100      |
| 17) 2-Methylphenol            | 7.128  | 107  | 225398   | 42.304 | ng    | 99       |
| 18) Hexachloroethane          | 7.398  | 117  | 120246   | 42.878 | ng    | 99       |
| 19) n-Nitroso-di-n-propyla... | 7.293  | 70   | 198845   | 39.810 | ng    | 99       |
| 20) 3+4-Methylphenols         | 7.281  | 107  | 283024   | 43.619 | ng    | 99       |
| 22) Acetophenone              | 7.293  | 105  | 355985   | 41.524 | ng    | 99       |
| 24) Nitrobenzene              | 7.463  | 77   | 308041   | 43.582 | ng    | 99       |
| 25) Isophorone                | 7.704  | 82   | 519134   | 41.778 | ng    | 99       |
| 26) 2-Nitrophenol             | 7.781  | 139  | 127397   | 44.135 | ng    | 98       |
| 27) 2,4-Dimethylphenol        | 7.810  | 122  | 237292   | 42.725 | ng    | 99       |
| 28) bis(2-Chloroethoxy)met... | 7.916  | 93   | 334704   | 41.459 | ng    | 100      |
| 29) 2,4-Dichlorophenol        | 8.016  | 162  | 234561   | 42.921 | ng    | 98       |
| 30) 1,2,4-Trichlorobenzene    | 8.110  | 180  | 240436   | 42.395 | ng    | 99       |
| 31) Naphthalene               | 8.193  | 128  | 785137   | 42.019 | ng    | 100      |
| 32) Benzoic acid              | 7.893  | 122  | 117697   | 43.922 | ng    | 96       |
| 33) 4-Chloroaniline           | 8.234  | 127  | 275488   | 41.955 | ng    | 99       |
| 34) Hexachlorobutadiene       | 8.310  | 225  | 179313   | 42.413 | ng    | 100      |
| 35) Caprolactam               | 8.587  | 113  | 61486    | 44.018 | ng    | 97       |
| 36) 4-Chloro-3-methylphenol   | 8.704  | 107  | 217750   | 42.485 | ng    | 96       |
| 37) 2-Methylnaphthalene       | 8.881  | 142  | 496707   | 41.689 | ng    | 99       |
| 38) 1-Methylnaphthalene       | 8.981  | 142  | 478612   | 41.968 | ng    | 99       |
| 40) 1,2,4,5-Tetrachloroben... | 9.045  | 216  | 242106   | 41.989 | ng    | 99       |
| 41) Hexachlorocyclopentadiene | 9.034  | 237  | 160009   | 43.786 | ng    | 99       |
| 43) 2,4,6-Trichlorophenol     | 9.157  | 196  | 162537   | 45.018 | ng    | 98       |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF092325\  
 Data File : BF143799.D  
 Acq On : 23 Sep 2025 17:42  
 Operator : RC/JU  
 Sample : SSTDICV040  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 ICVBF092325

Manual Integrations  
 APPROVED

Reviewed By :Rahul Chavli 09/24/2025  
 Supervised By :Jagrut Upadhyay 09/24/2025

Quant Time: Sep 23 18:09:57 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF092325.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Sep 23 17:50:26 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 44) 2,4,5-Trichlorophenol     | 9.192  | 196  | 159783   | 42.310 | ng    | 100      |
| 46) 1,1'-Biphenyl             | 9.345  | 154  | 570562   | 41.254 | ng    | 99       |
| 47) 2-Chloronaphthalene       | 9.369  | 162  | 457929   | 41.133 | ng    | 99       |
| 48) 2-Nitroaniline            | 9.463  | 65   | 161814   | 48.090 | ng    | 99       |
| 49) Acenaphthylene            | 9.787  | 152  | 647976   | 42.279 | ng    | 99       |
| 50) Dimethylphthalate         | 9.639  | 163  | 496374   | 42.624 | ng    | 99       |
| 51) 2,6-Dinitrotoluene        | 9.704  | 165  | 92326    | 48.254 | ng    | 99       |
| 52) Acenaphthene              | 9.957  | 154  | 422277   | 41.869 | ng    | 100      |
| 53) 3-Nitroaniline            | 9.869  | 138  | 110544   | 47.665 | ng    | 96       |
| 54) 2,4-Dinitrophenol         | 9.975  | 184  | 28355    | 46.217 | ng    | # 69     |
| 55) Dibenzofuran              | 10.128 | 168  | 602575   | 42.251 | ng    | 100      |
| 56) 4-Nitrophenol             | 10.016 | 139  | 85715    | 45.864 | ng    | 96       |
| 57) 2,4-Dinitrotoluene        | 10.104 | 165  | 126090   | 44.618 | ng    | 99       |
| 58) Fluorene                  | 10.475 | 166  | 446712   | 42.132 | ng    | 100      |
| 59) 2,3,4,6-Tetrachlorophenol | 10.245 | 232  | 149133   | 46.097 | ng    | 99       |
| 60) Diethylphthalate          | 10.345 | 149  | 470914   | 43.199 | ng    | 99       |
| 61) 4-Chlorophenyl-phenyle... | 10.463 | 204  | 227995   | 42.203 | ng    | 100      |
| 62) 4-Nitroaniline            | 10.481 | 138  | 104533   | 47.936 | ng    | 98       |
| 63) Azobenzene                | 10.622 | 77   | 491364   | 42.769 | ng    | 98       |
| 65) 4,6-Dinitro-2-methylph... | 10.510 | 198  | 49519    | 45.452 | ng    | 94       |
| 66) n-Nitrosodiphenylamine    | 10.581 | 169  | 413097   | 41.480 | ng    | 100      |
| 67) 4-Bromophenyl-phenylether | 10.957 | 248  | 221312   | 42.884 | ng    | 98       |
| 68) Hexachlorobenzene         | 11.022 | 284  | 303404   | 42.661 | ng    | 99       |
| 69) Atrazine                  | 11.104 | 200  | 130018   | 45.083 | ng    | 99       |
| 70) Pentachlorophenol         | 11.210 | 266  | 163934   | 46.307 | ng    | 99       |
| 71) Phenanthrene              | 11.439 | 178  | 657630   | 42.299 | ng    | 100      |
| 72) Anthracene                | 11.486 | 178  | 674513   | 43.252 | ng    | 99       |
| 73) Carbazole                 | 11.639 | 167  | 601493   | 44.114 | ng    | 100      |
| 74) Di-n-butylphthalate       | 11.975 | 149  | 724195   | 46.182 | ng    | 100      |
| 75) Fluoranthene              | 12.628 | 202  | 719722   | 46.027 | ng    | 100      |
| 77) Benzidine                 | 12.751 | 184  | 368236   | 40.236 | ng    | 99       |
| 78) Pyrene                    | 12.857 | 202  | 759210   | 41.117 | ng    | 100      |
| 80) Butylbenzylphthalate      | 13.475 | 149  | 298166   | 46.674 | ng    | 99       |
| 81) Benzo(a)anthracene        | 14.045 | 228  | 833201   | 41.296 | ng    | 99       |
| 82) 3,3'-Dichlorobenzidine    | 14.010 | 252  | 373433   | 42.723 | ng    | 99       |
| 83) Chrysene                  | 14.080 | 228  | 799482   | 43.791 | ng    | 99       |
| 84) Bis(2-ethylhexyl)phtha... | 14.033 | 149  | 427966   | 45.704 | ng    | 97       |
| 85) Di-n-octyl phthalate      | 14.651 | 149  | 756048   | 44.512 | ng    | 99       |
| 87) Indeno(1,2,3-cd)pyrene    | 17.027 | 276  | 1728261  | 43.111 | ng    | 99       |
| 88) Benzo(b)fluoranthene      | 15.098 | 252  | 1234859  | 45.894 | ng    | 100      |
| 89) Benzo(k)fluoranthene      | 15.133 | 252  | 1105146  | 40.882 | ng    | 99       |
| 90) Benzo(a)pyrene            | 15.474 | 252  | 1093771  | 43.246 | ng    | 100      |
| 91) Dibenzo(a,h)anthracene    | 17.051 | 278  | 1422887  | 43.395 | ng    | 99       |
| 92) Benzo(g,h,i)perylene      | 17.480 | 276  | 1366956  | 43.247 | ng    | 100      |

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



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF092325\  
Data File : BF143799.D  
Acq On : 23 Sep 2025 17:42  
Operator : RC/JU  
Sample : SSTDICV040  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

## Instrument :

BNA\_F

## ClientSampleId :

ICVBF092325

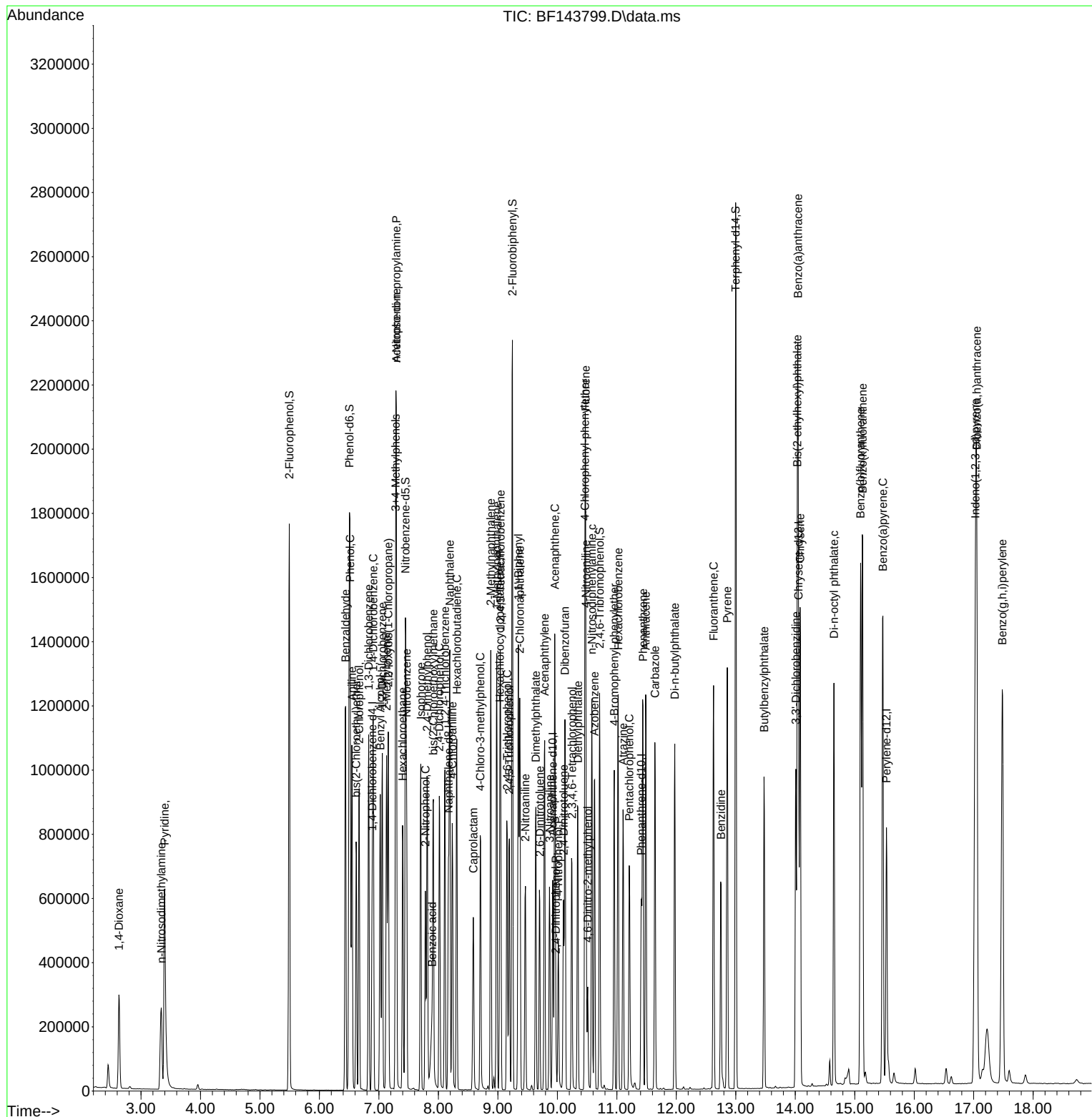
## Manual Integrations

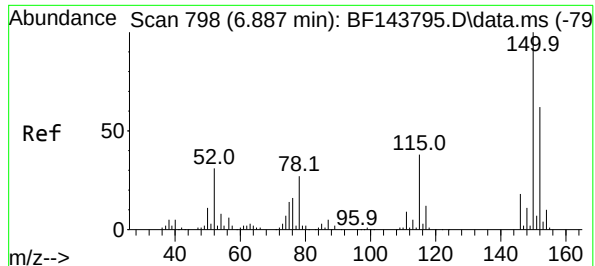
## APPROVED

Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025

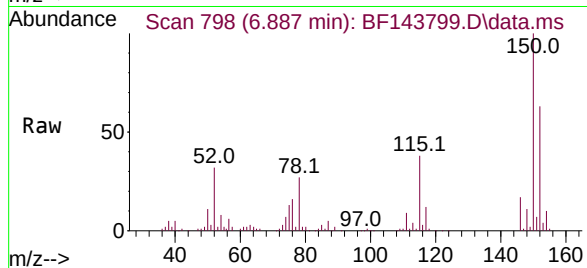
Quant Time: Sep 23 18:09:57 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF092325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Sep 23 17:50:26 2025  
Response via : Initial Calibration





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.887 min Scan# 79  
Delta R.T. -0.000 min  
Lab File: BF143799.D  
Acq: 23 Sep 2025 17:42

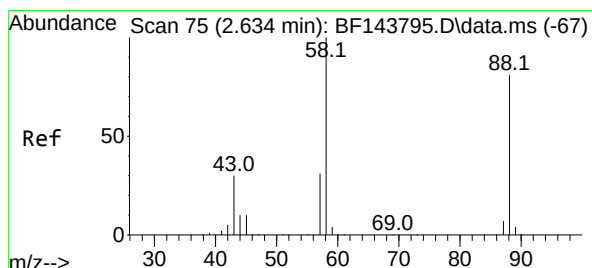
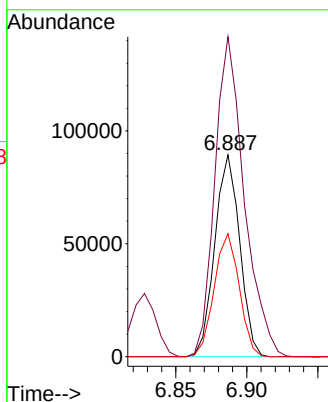
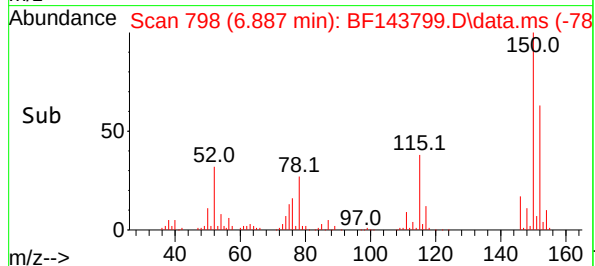
Instrument :  
BNA\_F  
ClientSampleId :  
ICVBF092325



Tgt Ion: 152 Resp: 10922  
Ion Ratio Lower Upper  
152 100  
150 158.7 129.6 194.4  
115 61.0 49.0 73.4

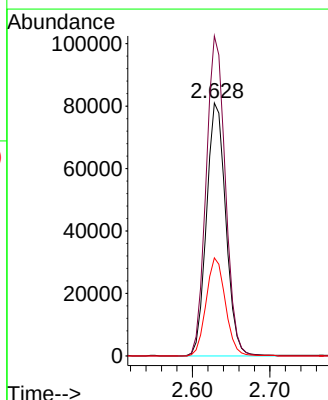
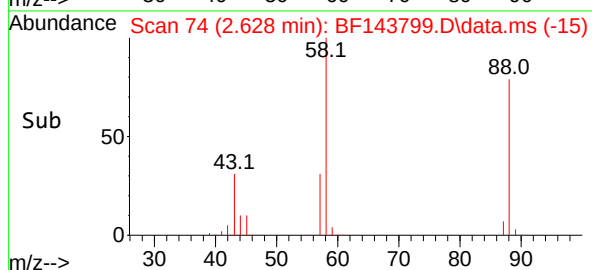
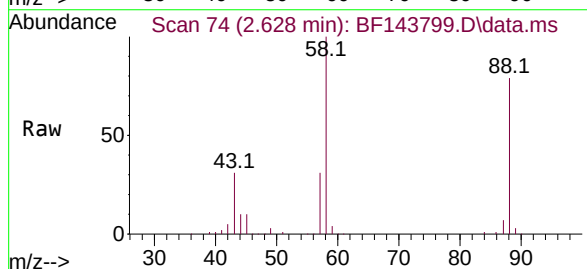
Manual Integrations  
APPROVED

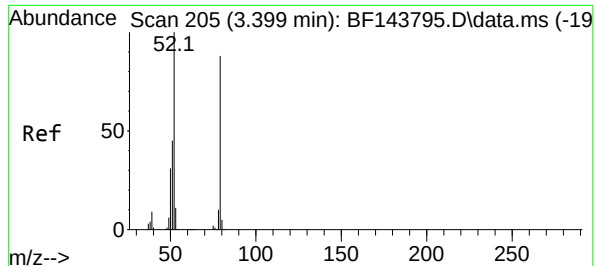
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#2  
1,4-Dioxane  
Concen: 43.647 ng  
RT: 2.628 min Scan# 74  
Delta R.T. -0.006 min  
Lab File: BF143799.D  
Acq: 23 Sep 2025 17:42

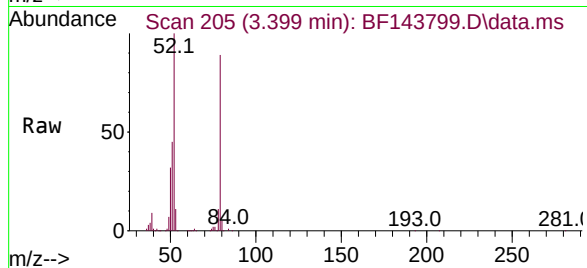
Tgt Ion: 88 Resp: 140442  
Ion Ratio Lower Upper  
88 100  
58 125.4 99.4 149.2  
43 38.5 30.6 45.8





#3  
Pyridine  
Concen: 43.022 ng  
RT: 3.399 min Scan# 205  
Delta R.T. 0.000 min  
Lab File: BF143799.D  
Acq: 23 Sep 2025 17:42

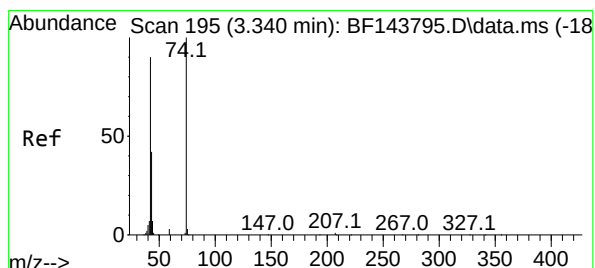
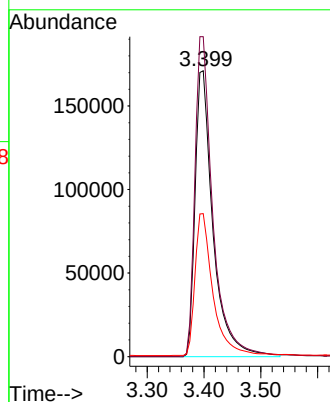
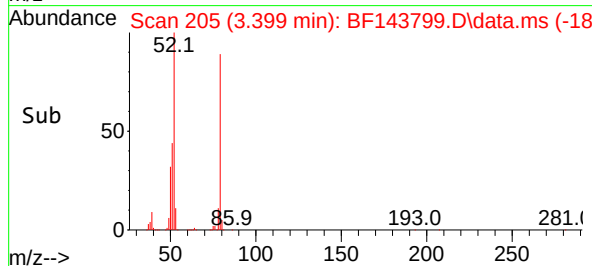
Instrument :  
BNA\_F  
ClientSampleId :  
ICVBF092325



Tgt Ion: 79 Resp: 373668  
Ion Ratio Lower Upper  
79 100  
52 112.0 90.5 135.7  
51 50.0 40.6 61.0

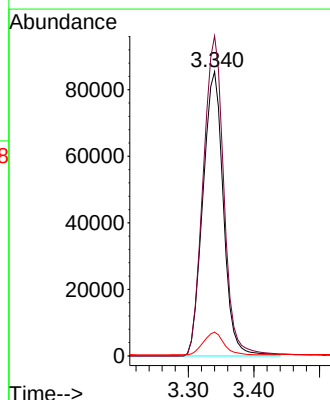
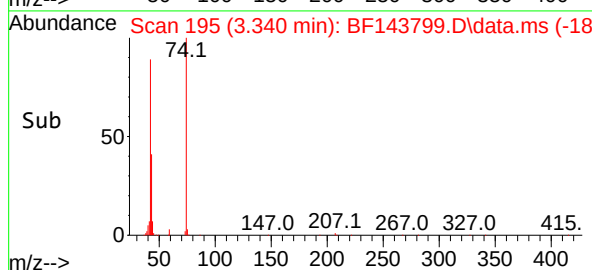
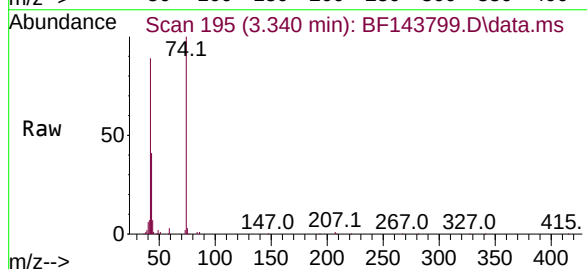
Manual Integrations  
APPROVED

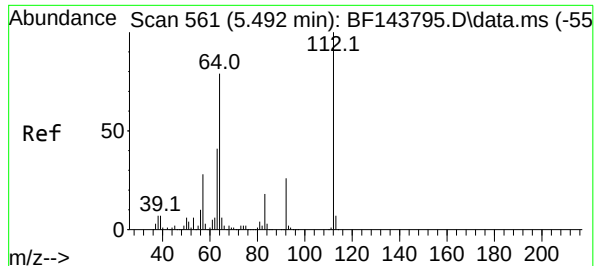
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#4  
n-Nitrosodimethylamine  
Concen: 42.441 ng  
RT: 3.340 min Scan# 195  
Delta R.T. -0.017 min  
Lab File: BF143799.D  
Acq: 23 Sep 2025 17:42

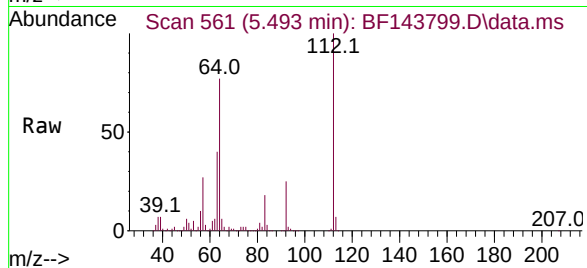
Tgt Ion: 42 Resp: 184836  
Ion Ratio Lower Upper  
42 100  
74 112.6 89.1 133.7  
44 8.3 6.4 9.6





#5  
2-Fluorophenol  
Concen: 86.573 ng  
RT: 5.493 min Scan# 561  
Delta R.T. -0.006 min  
Lab File: BF143799.D  
Acq: 23 Sep 2025 17:42

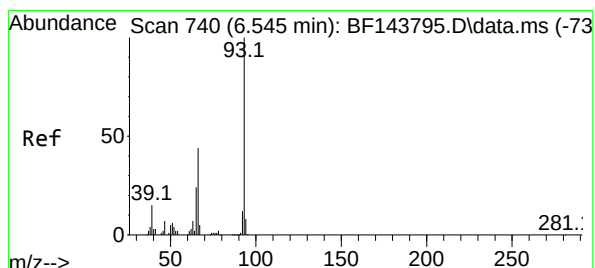
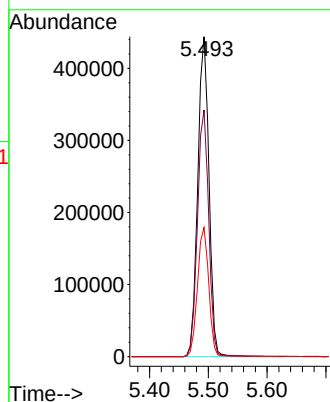
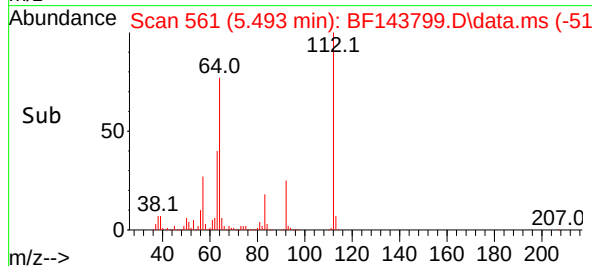
Instrument :  
BNA\_F  
ClientSampleId :  
ICVBF092325



Tgt Ion: 112 Resp: 587541  
Ion Ratio Lower Upper  
112 100  
64 77.1 63.0 94.4  
63 40.4 32.6 49.0

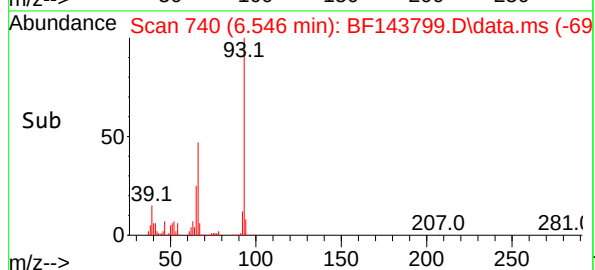
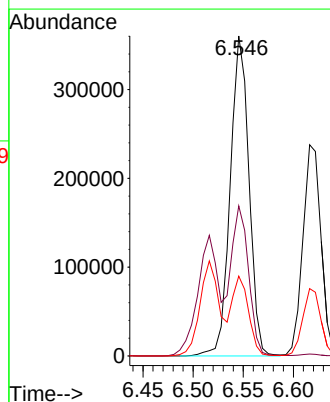
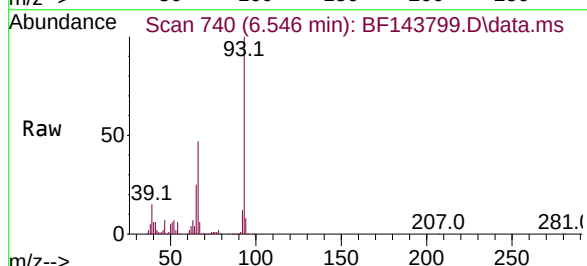
Manual Integrations  
APPROVED

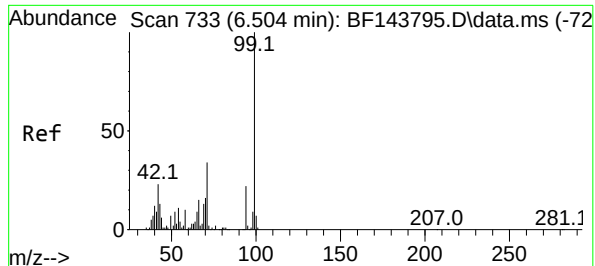
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#6  
Aniline  
Concen: 41.592 ng  
RT: 6.546 min Scan# 740  
Delta R.T. -0.006 min  
Lab File: BF143799.D  
Acq: 23 Sep 2025 17:42

Tgt Ion: 93 Resp: 468886  
Ion Ratio Lower Upper  
93 100  
66 46.9 37.1 55.7  
65 24.9 19.4 29.0





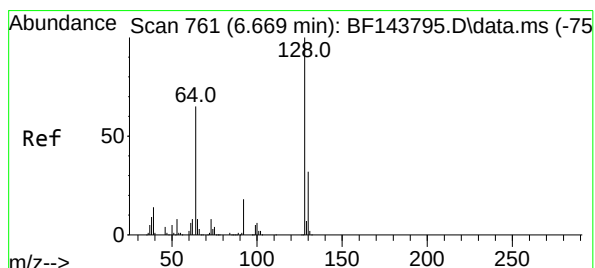
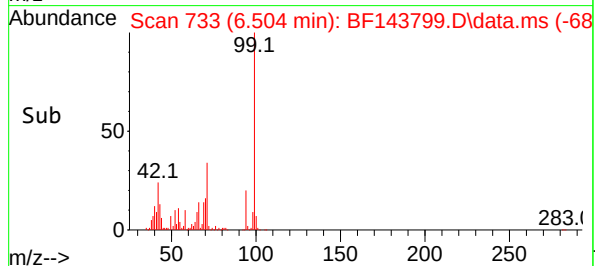
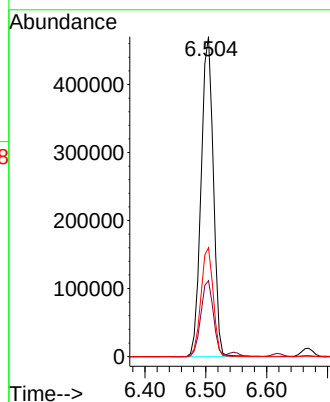
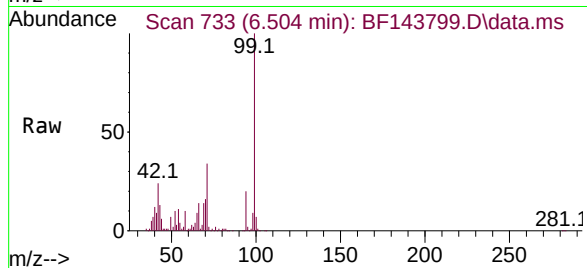
#7  
Phenol-d6  
Concen: 81.847 ng  
RT: 6.504 min Scan# 733  
Delta R.T. -0.006 min  
Lab File: BF143799.D  
Acq: 23 Sep 2025 17:42

Instrument :  
BNA\_F  
ClientSampleId :  
ICVBF092325

Tgt Ion: 99 Resp: 655490  
Ion Ratio Lower Upper  
99 100  
42 23.7 18.6 28.0  
71 34.0 27.0 40.4

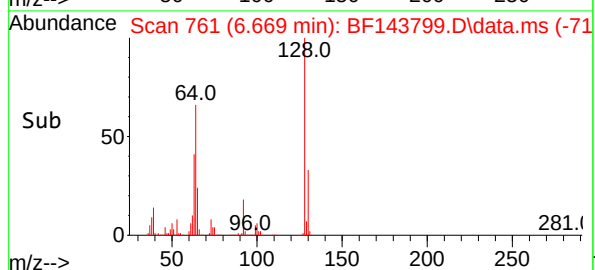
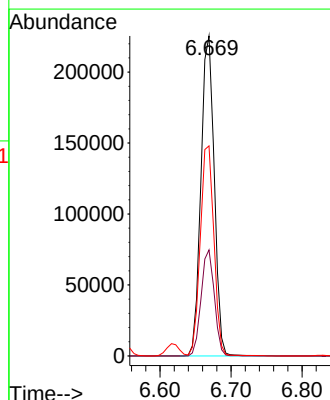
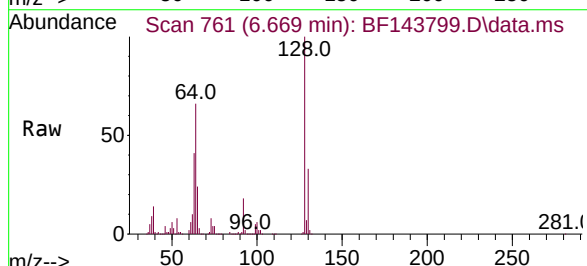
Manual Integrations  
APPROVED

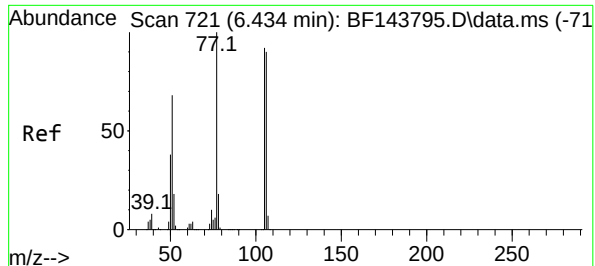
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#8  
2-Chlorophenol  
Concen: 42.456 ng  
RT: 6.669 min Scan# 761  
Delta R.T. 0.000 min  
Lab File: BF143799.D  
Acq: 23 Sep 2025 17:42

Tgt Ion:128 Resp: 292186  
Ion Ratio Lower Upper  
128 100  
130 33.1 12.2 52.2  
64 65.6 46.5 86.5





#9

Benzaldehyde

Concen: 46.667 ng

RT: 6.440 min Scan# 721

Delta R.T. 0.000 min

Lab File: BF143799.D

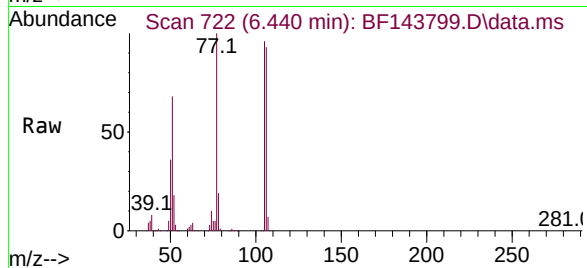
Acq: 23 Sep 2025 17:42

Instrument :

BNA\_F

ClientSampleId :

ICVBF092325



Tgt Ion: 77 Resp: 317430

Ion Ratio Lower Upper

77 100

105 95.9 71.8 111.8

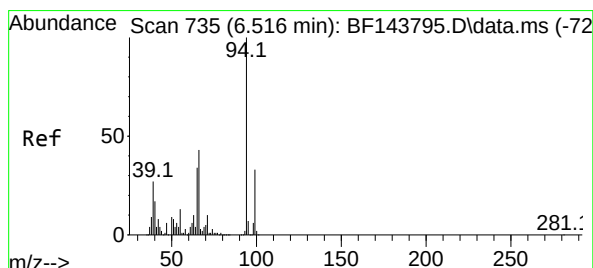
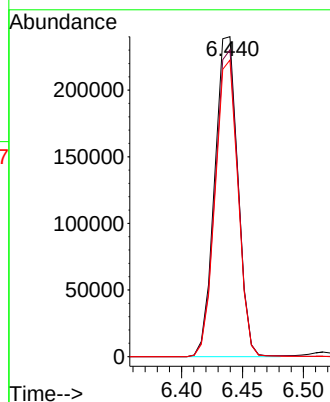
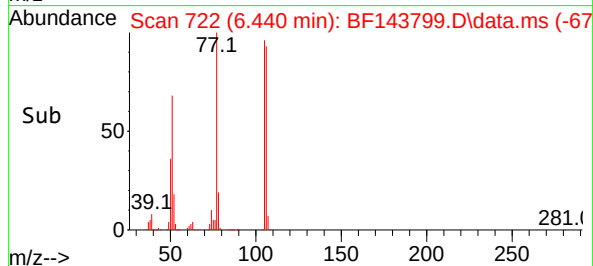
106 92.7 69.8 109.8

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#10

Phenol

Concen: 41.956 ng m

RT: 6.516 min Scan# 735

Delta R.T. -0.012 min

Lab File: BF143799.D

Acq: 23 Sep 2025 17:42

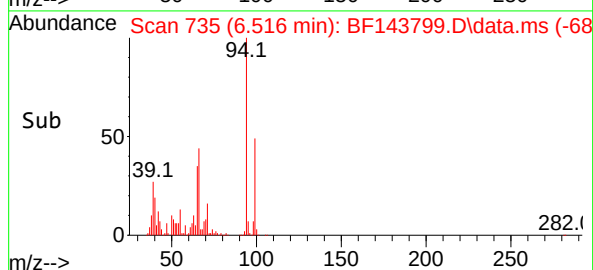
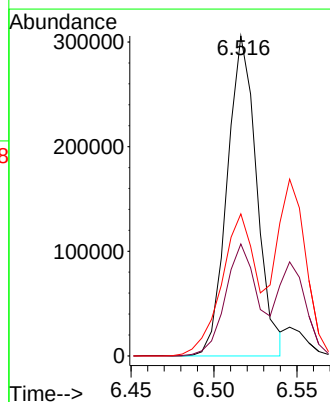
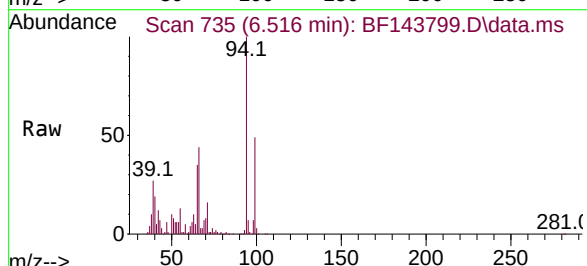
Tgt Ion: 94 Resp: 378799

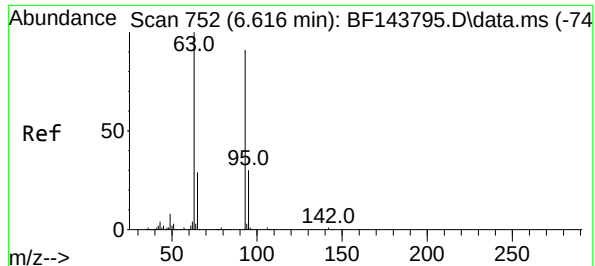
Ion Ratio Lower Upper

94 100

65 35.0 14.2 54.2

66 44.4 24.1 64.1





#11

bis(2-Chloroethyl)ether

Concen: 41.891 ng

RT: 6.616 min Scan# 752

Delta R.T. -0.006 min

Lab File: BF143799.D

Acq: 23 Sep 2025 17:42

Instrument :

BNA\_F

ClientSampleId :

ICVBF092325

Tgt Ion: 93 Resp: 296472

Ion Ratio Lower Upper

93 100

63 110.1 89.2 129.2

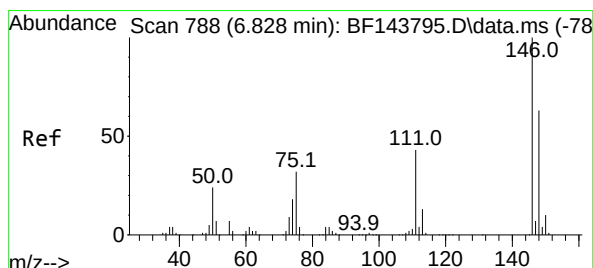
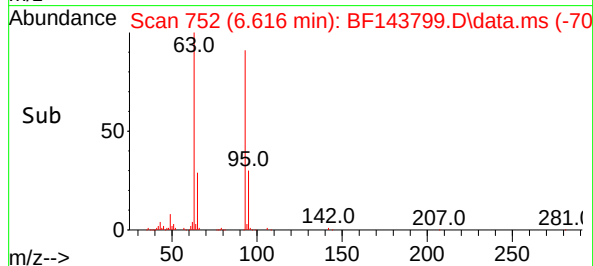
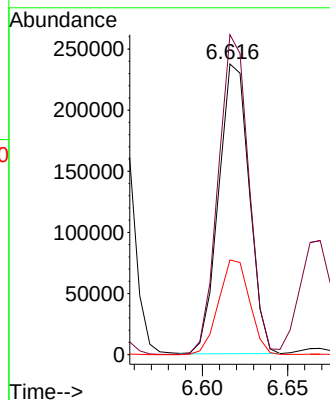
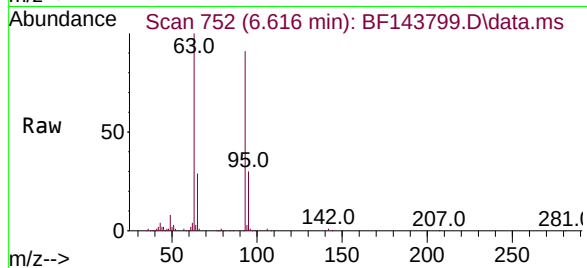
95 32.5 12.9 52.9

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#12

1,3-Dichlorobenzene

Concen: 42.271 ng

RT: 6.828 min Scan# 788

Delta R.T. 0.000 min

Lab File: BF143799.D

Acq: 23 Sep 2025 17:42

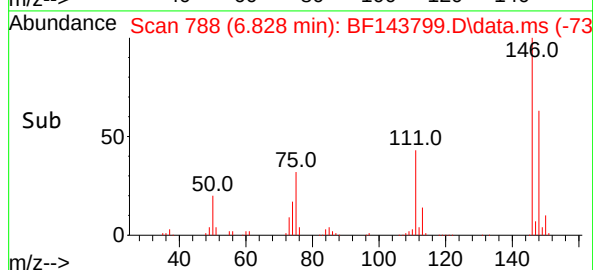
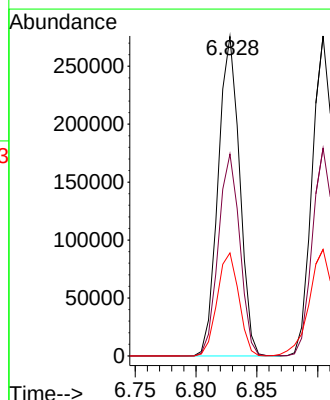
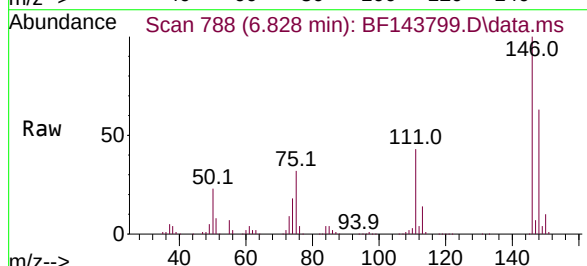
Tgt Ion:146 Resp: 337770

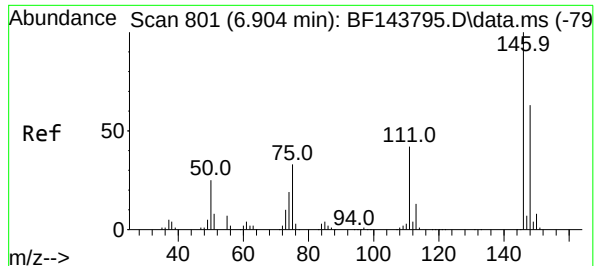
Ion Ratio Lower Upper

146 100

148 63.2 50.4 75.6

75 32.3 25.6 38.4





#13

1,4-Dichlorobenzene

Concen: 41.859 ng

RT: 6.904 min Scan# 801

Delta R.T. 0.000 min

Lab File: BF143799.D

Acq: 23 Sep 2025 17:42

Instrument :

BNA\_F

ClientSampleId :

ICVBF092325

Tgt Ion:146 Resp: 333799

Ion Ratio Lower Upper

146 100

148 64.9 50.7 76.1

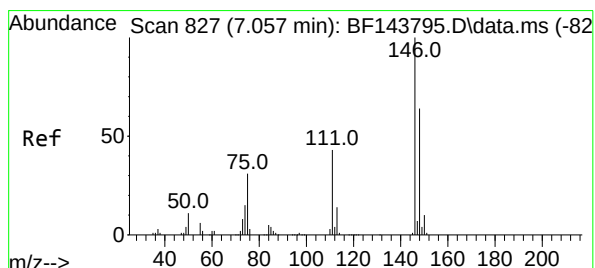
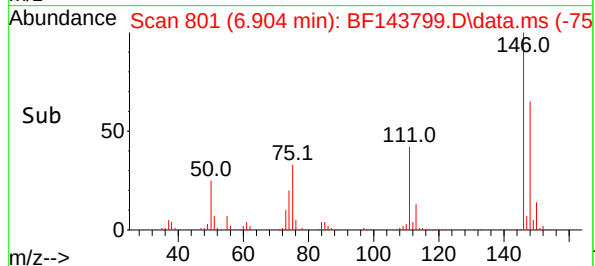
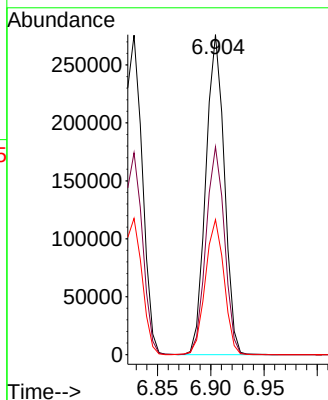
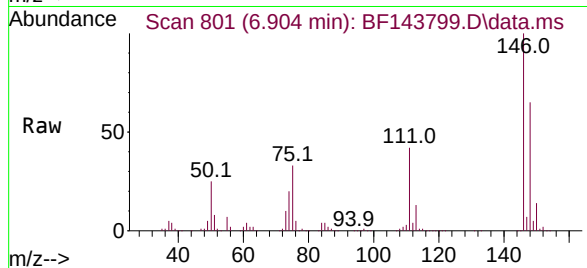
111 42.2 33.4 50.2

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#14

1,2-Dichlorobenzene

Concen: 41.736 ng

RT: 7.057 min Scan# 827

Delta R.T. 0.000 min

Lab File: BF143799.D

Acq: 23 Sep 2025 17:42

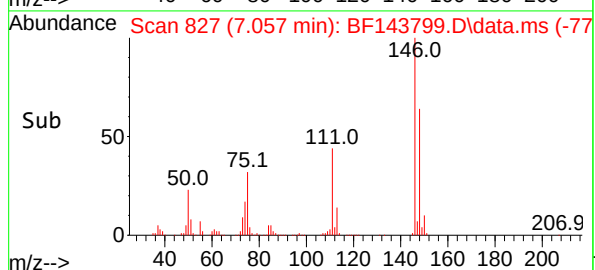
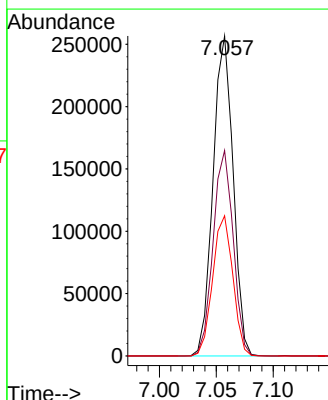
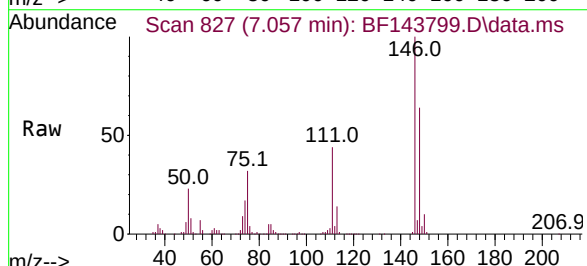
Tgt Ion:146 Resp: 315213

Ion Ratio Lower Upper

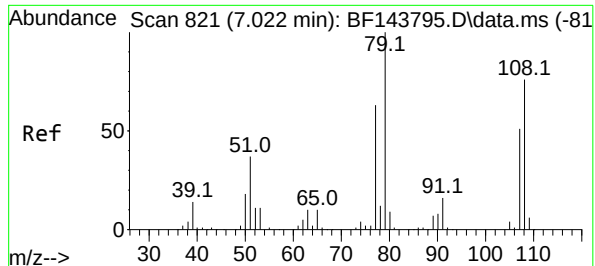
146 100

148 64.2 51.1 76.7

111 43.8 34.3 51.5

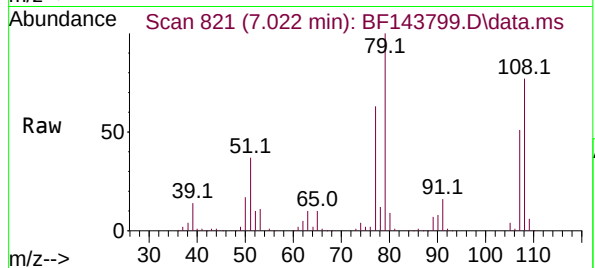






#15  
Benzyl Alcohol  
Concen: 42.558 ng  
RT: 7.022 min Scan# 821  
Delta R.T. -0.006 min  
Lab File: BF143799.D  
Acq: 23 Sep 2025 17:42

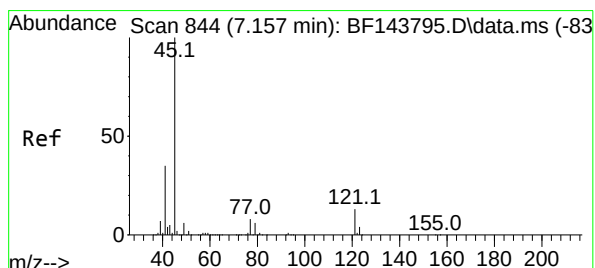
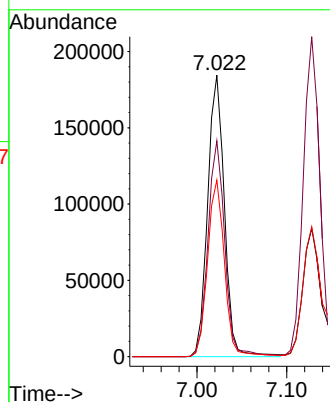
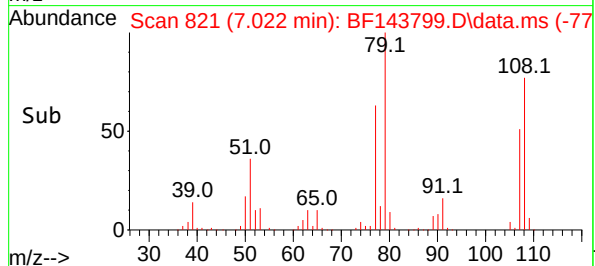
Instrument :  
BNA\_F  
ClientSampleId :  
ICVBF092325



Tgt Ion: 79 Resp: 23885  
Ion Ratio Lower Upper  
79 100  
108 76.7 60.5 90.7  
77 62.8 50.3 75.5

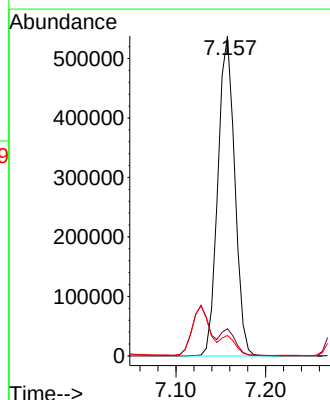
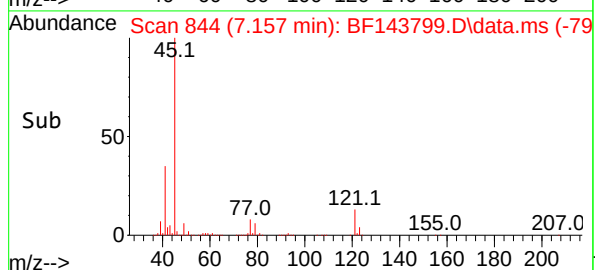
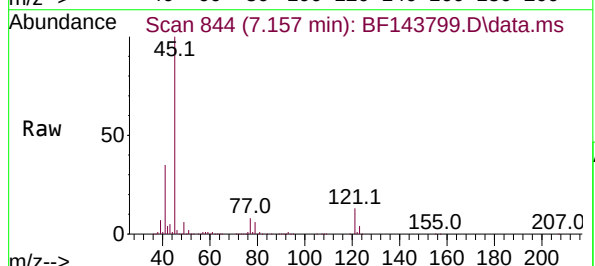
Manual Integrations  
APPROVED

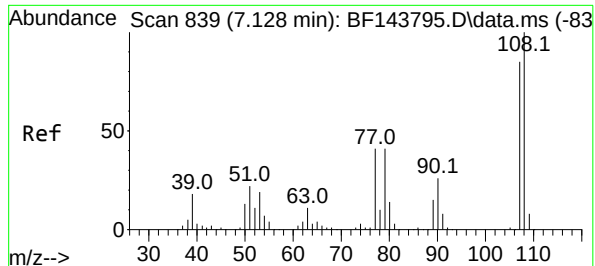
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#16  
2,2'-oxybis(1-chloropropane)  
Concen: 41.868 ng  
RT: 7.157 min Scan# 844  
Delta R.T. 0.000 min  
Lab File: BF143799.D  
Acq: 23 Sep 2025 17:42

Tgt Ion: 45 Resp: 702630  
Ion Ratio Lower Upper  
45 100  
77 8.5 0.0 28.5  
79 6.4 0.0 26.3





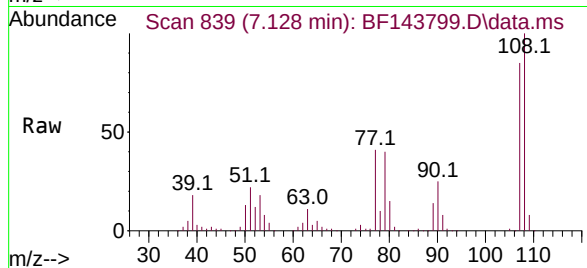
#17  
2-Methylphenol  
Concen: 42.304 ng  
RT: 7.128 min Scan# 839  
Delta R.T. -0.006 min  
Lab File: BF143799.D  
Acq: 23 Sep 2025 17:42

Instrument :

BNA\_F

Client Sample Id :

ICVBF092325

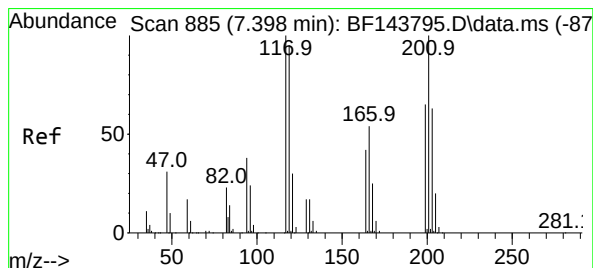
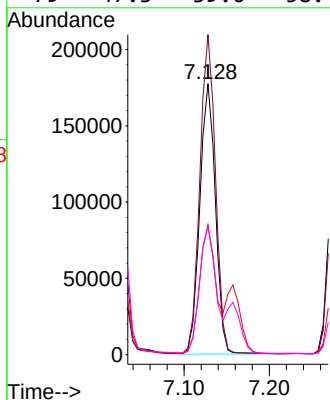
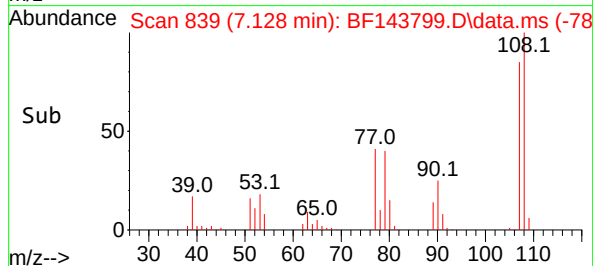


Tgt Ion:107 Resp: 225398  
Ion Ratio Lower Upper  
107 100  
108 118.1 94.2 141.4  
77 47.9 38.6 58.0  
79 47.3 39.0 58.4

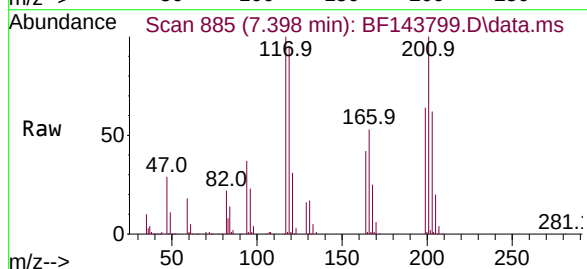
Manual Integrations

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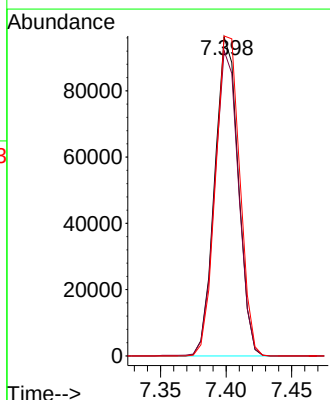
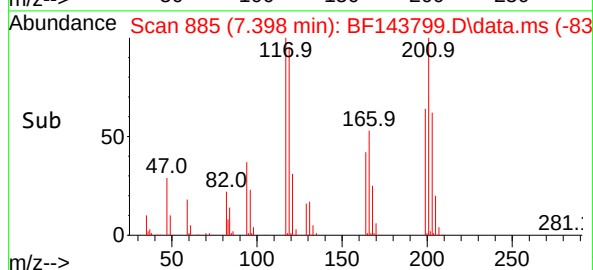
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025

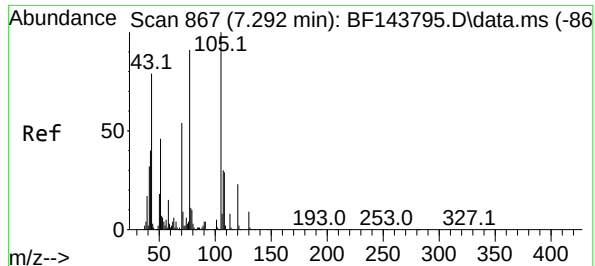


#18  
Hexachloroethane  
Concen: 42.878 ng  
RT: 7.398 min Scan# 885  
Delta R.T. -0.006 min  
Lab File: BF143799.D  
Acq: 23 Sep 2025 17:42



Tgt Ion:117 Resp: 120246  
Ion Ratio Lower Upper  
117 100  
119 95.8 76.2 114.2  
201 100.4 79.7 119.5





#19

n-Nitroso-di-n-propylamine

Concen: 39.810 ng

RT: 7.293 min Scan# 867

Delta R.T. -0.012 min

Lab File: BF143799.D

Acq: 23 Sep 2025 17:42

Instrument :

BNA\_F

ClientSampleId :

ICVBF092325

Tgt Ion: 70 Resp: 198845

Ion Ratio Lower Upper

70 100

42 74.7 59.4 89.0

101 8.5 7.1 10.7

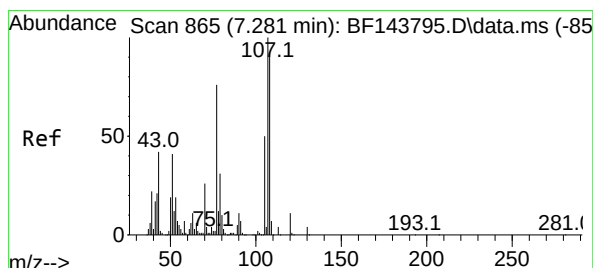
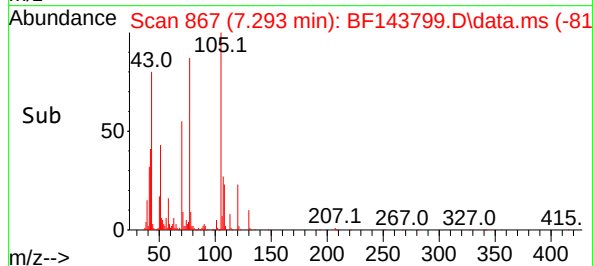
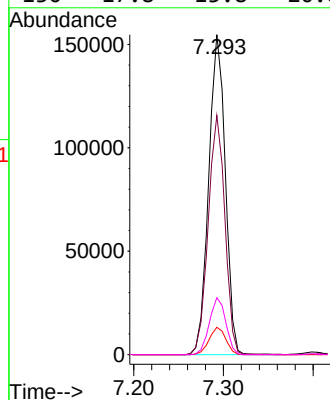
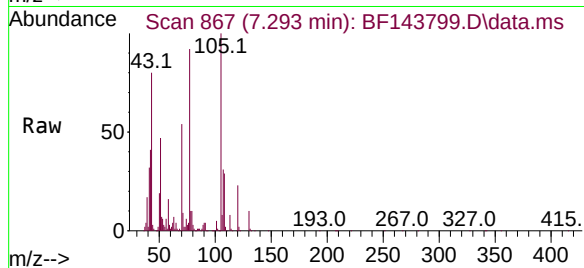
130 17.8 13.8 20.8

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#20

3+4-Methylphenols

Concen: 43.619 ng

RT: 7.281 min Scan# 865

Delta R.T. -0.006 min

Lab File: BF143799.D

Acq: 23 Sep 2025 17:42

Tgt Ion:107 Resp: 283024

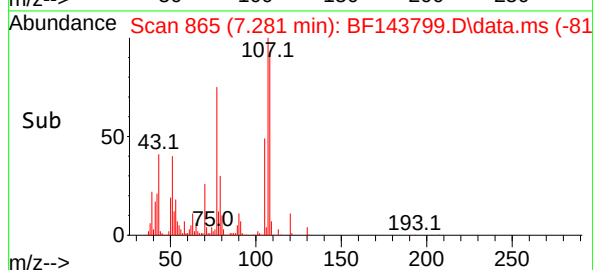
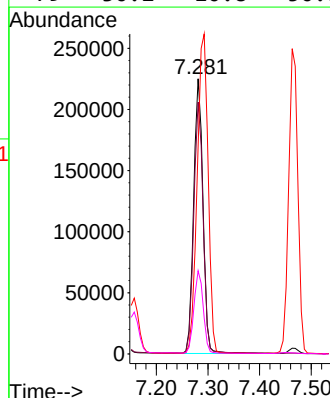
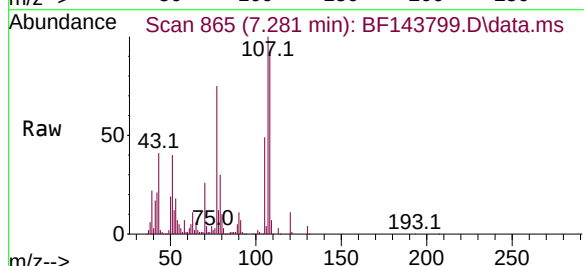
Ion Ratio Lower Upper

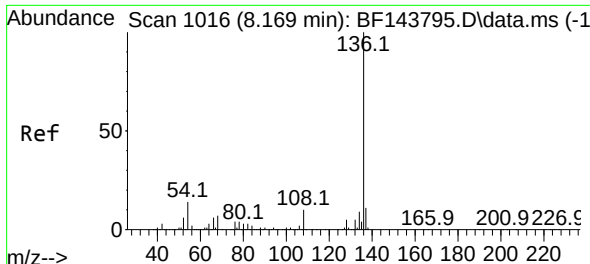
107 100

108 91.5 72.5 112.5

77 75.4 56.2 96.2

79 30.2 10.8 50.8





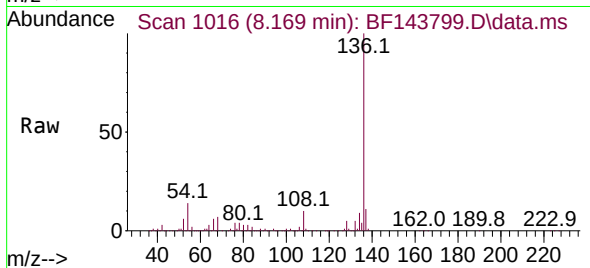
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.169 min Scan# 1016  
Delta R.T. -0.000 min  
Lab File: BF143799.D  
Acq: 23 Sep 2025 17:42

Instrument :

BNA\_F

ClientSampleId :

ICVBF092325

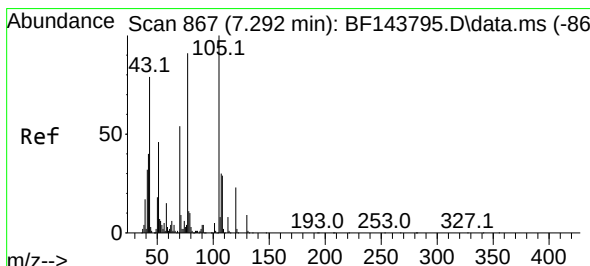
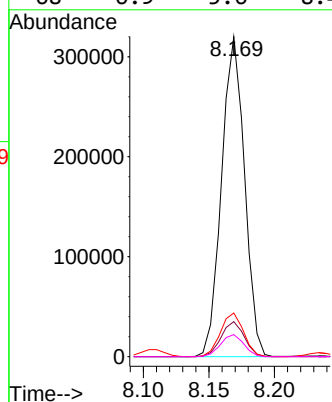
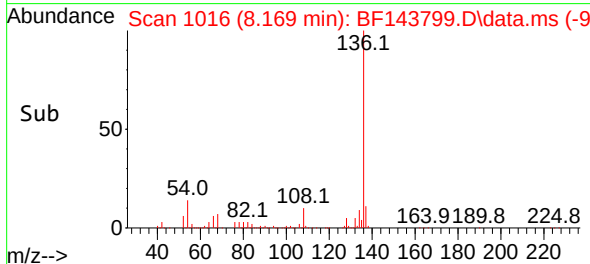


| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 136     | 100   |       |       |
| 137     | 10.9  | 9.0   | 13.4  |
| 54      | 13.6  | 11.2  | 16.8  |
| 68      | 6.9   | 5.6   | 8.4   |

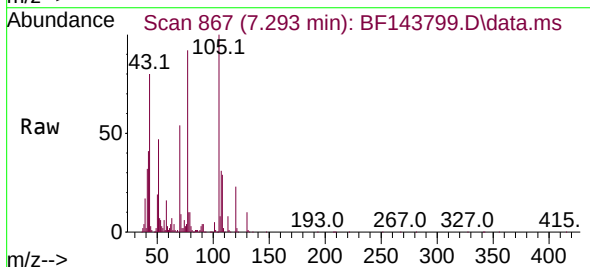
Manual Integrations

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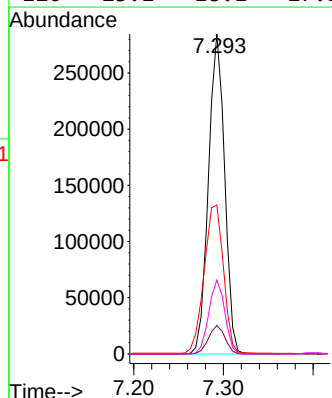
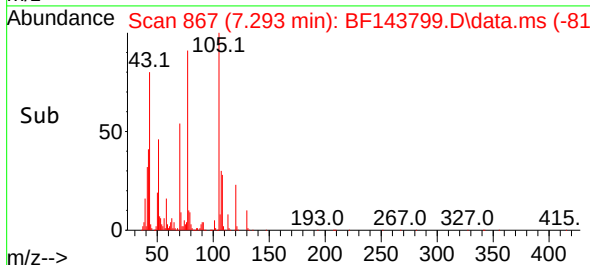
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025

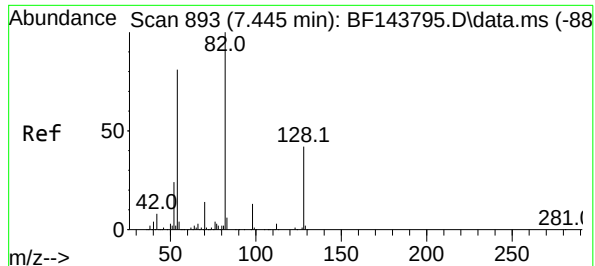


#22  
Acetophenone  
Concen: 41.524 ng  
RT: 7.293 min Scan# 867  
Delta R.T. -0.006 min  
Lab File: BF143799.D  
Acq: 23 Sep 2025 17:42



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 71      | 8.9   | 7.0   | 10.4  |
| 51      | 46.5  | 36.6  | 55.0  |
| 120     | 23.1  | 18.1  | 27.1  |





#23

Nitrobenzene-d5

Concen: 90.799 ng

RT: 7.445 min Scan# 893

Delta R.T. -0.006 min

Lab File: BF143799.D

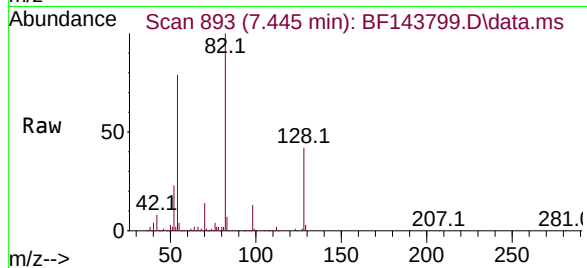
Acq: 23 Sep 2025 17:42

Instrument :

BNA\_F

ClientSampleId :

ICVBF092325



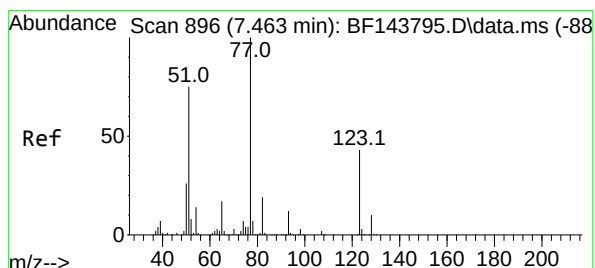
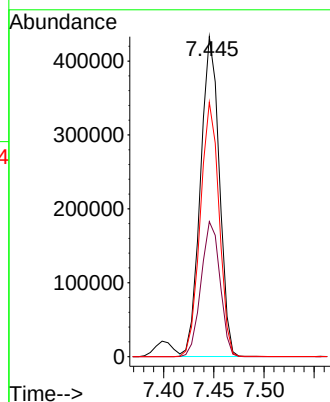
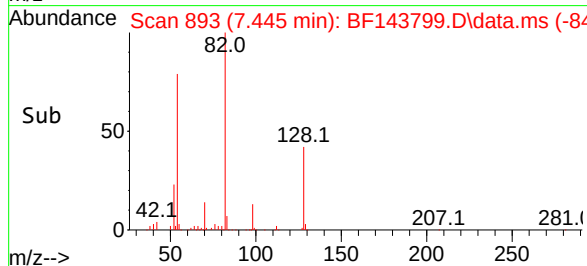
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 563159 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 42.2  | 33.3  | 49.9   |
| 54       | 79.5  | 64.2  | 96.4   |

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#24

Nitrobenzene

Concen: 43.582 ng

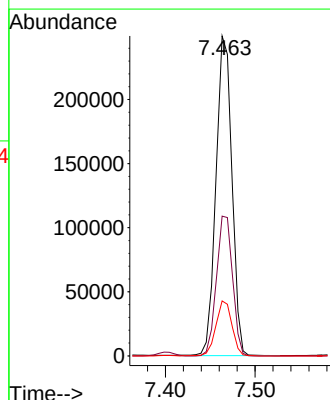
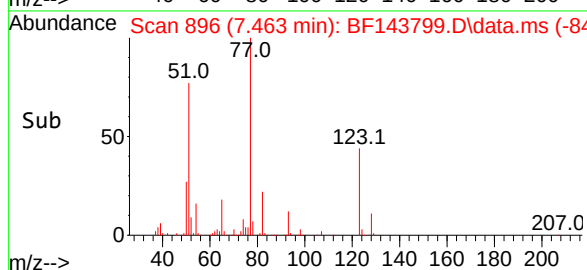
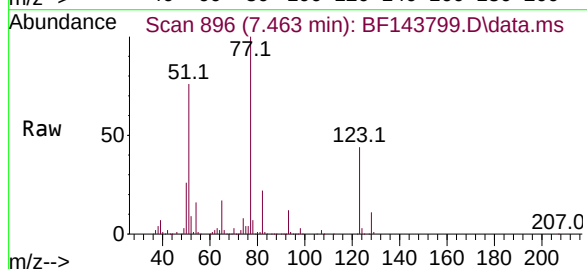
RT: 7.463 min Scan# 896

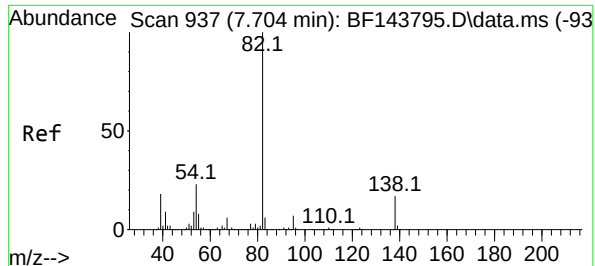
Delta R.T. -0.012 min

Lab File: BF143799.D

Acq: 23 Sep 2025 17:42

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 77    | Resp: | 308041 |
| Ion      | Ratio | Lower | Upper  |
| 77       | 100   |       |        |
| 123      | 43.7  | 34.0  | 51.0   |
| 65       | 17.2  | 13.5  | 20.3   |





#25

Isophorone

Concen: 41.778 ng

RT: 7.704 min Scan# 937

Delta R.T. -0.006 min

Lab File: BF143799.D

Acq: 23 Sep 2025 17:42

Instrument :

BNA\_F

ClientSampleId :

ICVBF092325

Tgt Ion: 82 Resp: 519134

Ion Ratio Lower Upper

82 100

95 6.7 5.4 8.2

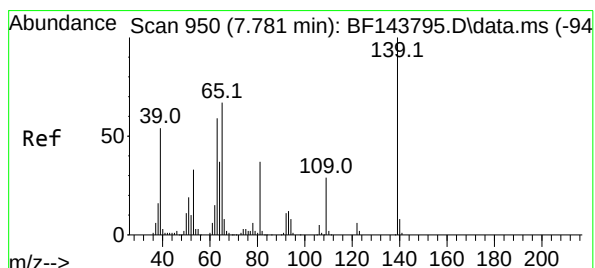
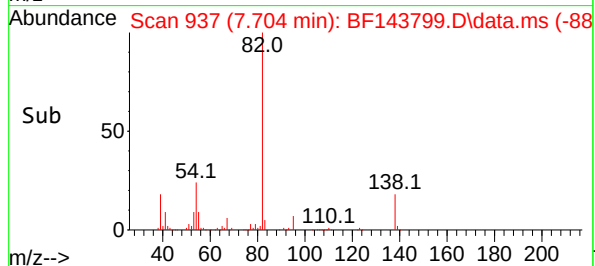
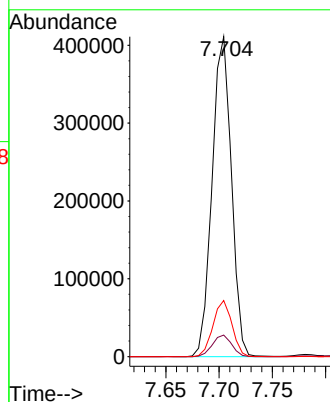
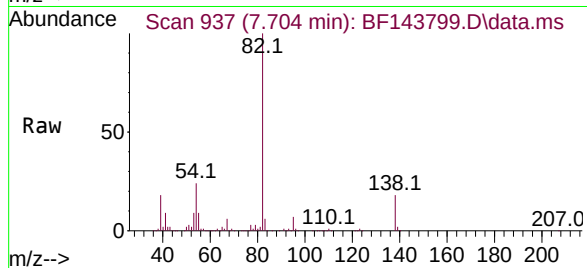
138 17.5 13.7 20.5

Manual Integrations

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Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#26

2-Nitrophenol

Concen: 44.135 ng

RT: 7.781 min Scan# 950

Delta R.T. -0.005 min

Lab File: BF143799.D

Acq: 23 Sep 2025 17:42

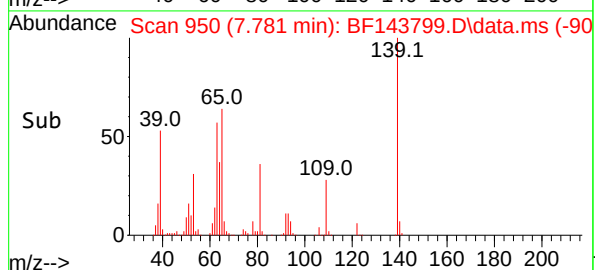
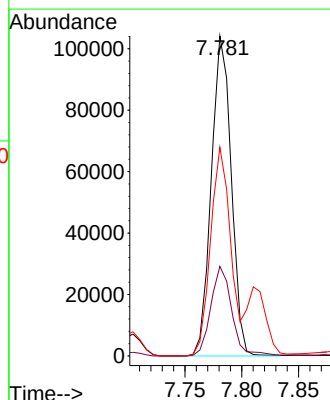
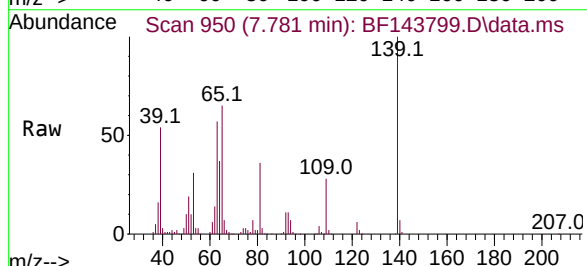
Tgt Ion:139 Resp: 127397

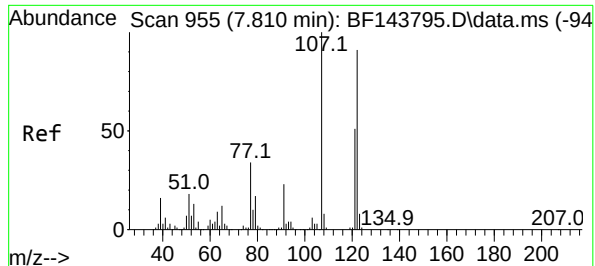
Ion Ratio Lower Upper

139 100

109 28.0 23.3 34.9

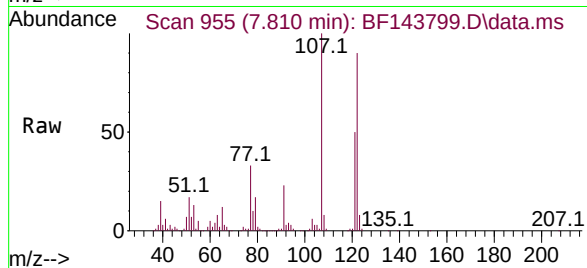
65 65.2 53.8 80.6





#27  
2,4-Dimethylphenol  
Concen: 42.725 ng  
RT: 7.810 min Scan# 955  
Delta R.T. -0.006 min  
Lab File: BF143799.D  
Acq: 23 Sep 2025 17:42

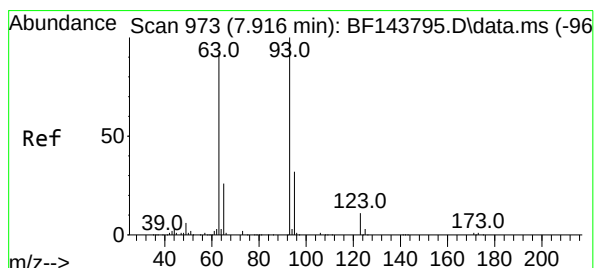
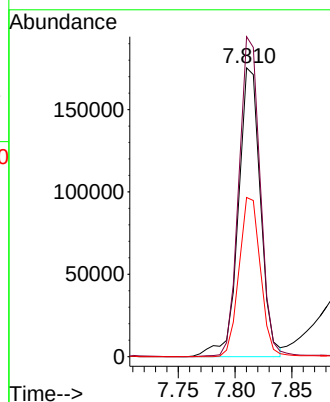
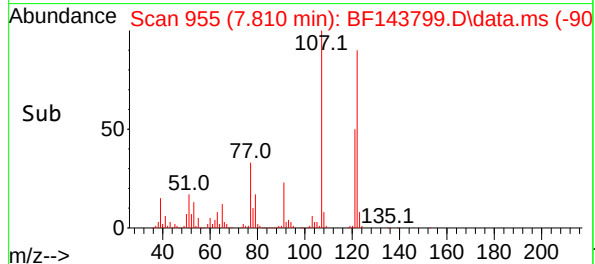
Instrument :  
BNA\_F  
ClientSampleId :  
ICVBF092325



Tgt Ion:122 Resp: 237292  
Ion Ratio Lower Upper  
122 100  
107 110.8 87.5 131.3  
121 55.1 44.2 66.4

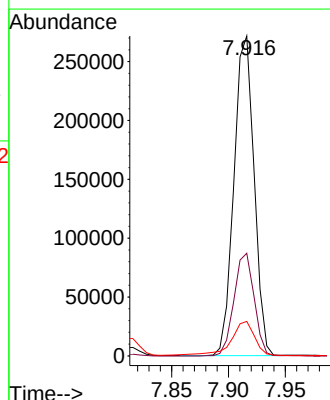
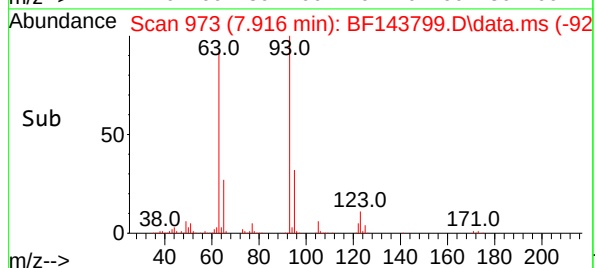
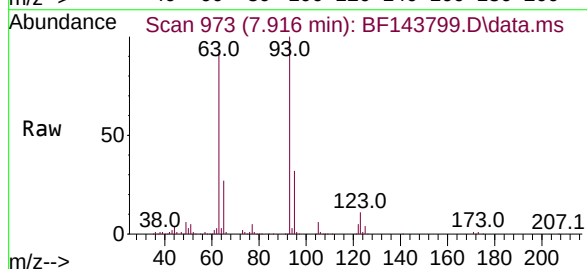
Manual Integrations  
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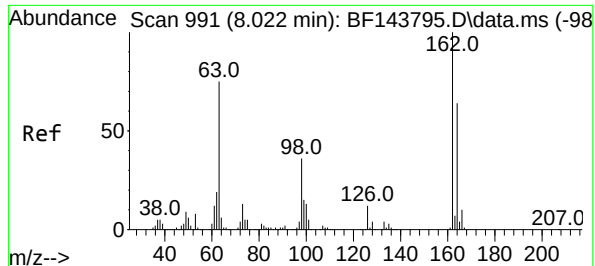
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#28  
bis(2-Chloroethoxy)methane  
Concen: 41.459 ng  
RT: 7.916 min Scan# 973  
Delta R.T. 0.000 min  
Lab File: BF143799.D  
Acq: 23 Sep 2025 17:42

Tgt Ion: 93 Resp: 334704  
Ion Ratio Lower Upper  
93 100  
95 32.1 25.8 38.8  
123 10.8 8.8 13.2





#29

2,4-Dichlorophenol

Concen: 42.921 ng

RT: 8.016 min Scan# 991

Delta R.T. -0.006 min

Lab File: BF143799.D

Acq: 23 Sep 2025 17:42

Instrument :

BNA\_F

ClientSampleId :

ICVBF092325

Tgt Ion:162 Resp: 23456

Ion Ratio Lower Upper

162 100

164 64.3 44.1 84.1

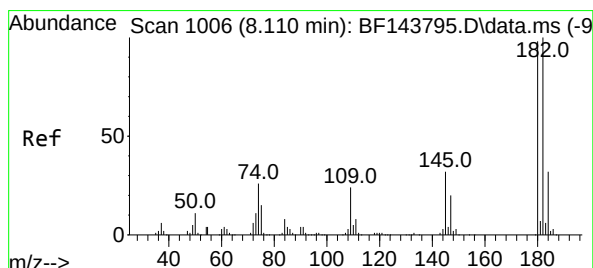
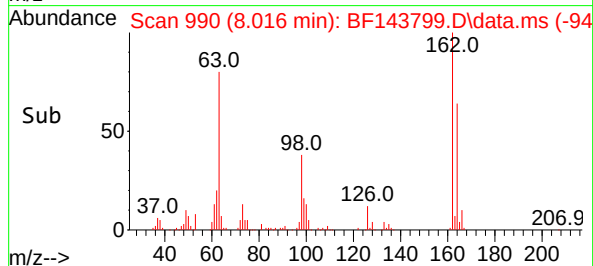
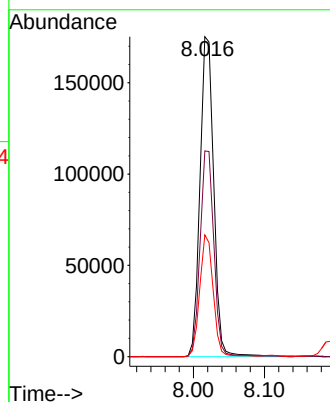
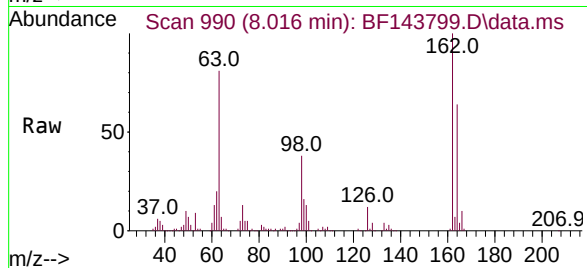
98 38.0 15.8 55.8

Manual Integrations

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Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#30

1,2,4-Trichlorobenzene

Concen: 42.395 ng

RT: 8.110 min Scan# 1006

Delta R.T. 0.000 min

Lab File: BF143799.D

Acq: 23 Sep 2025 17:42

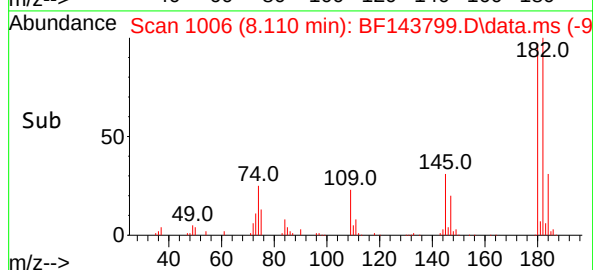
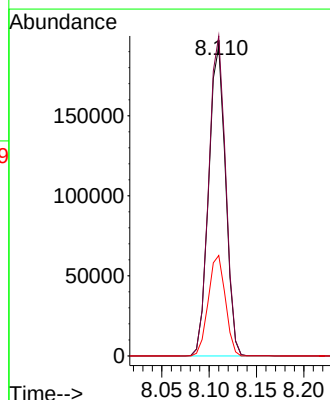
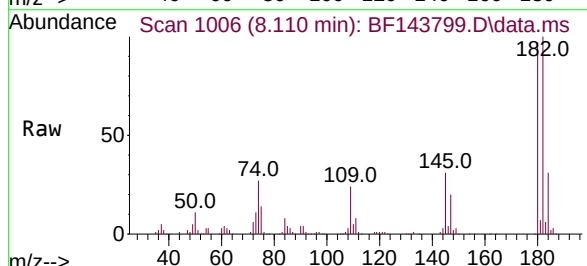
Tgt Ion:180 Resp: 240436

Ion Ratio Lower Upper

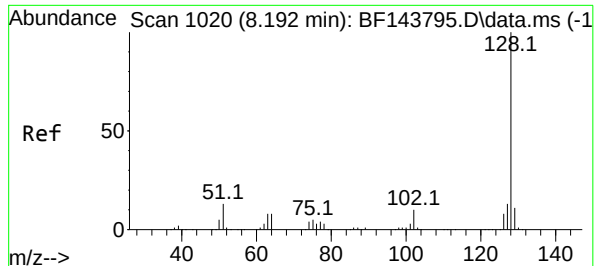
180 100

182 103.4 82.0 123.0

145 32.4 25.9 38.9

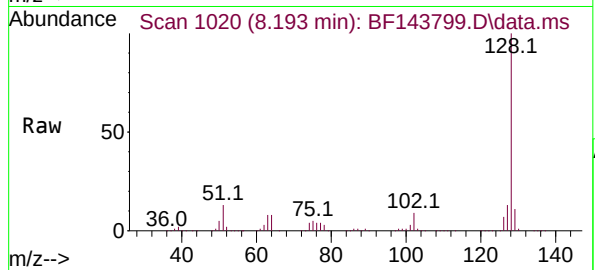






#31  
Naphthalene  
Concen: 42.019 ng  
RT: 8.193 min Scan# 1020  
Delta R.T. 0.000 min  
Lab File: BF143799.D  
Acq: 23 Sep 2025 17:42

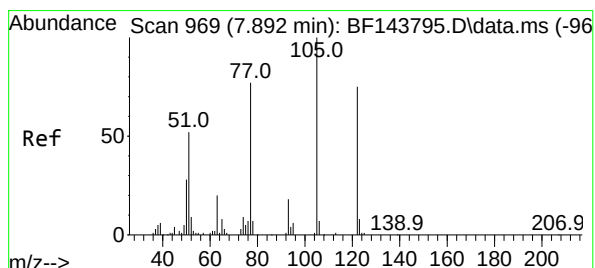
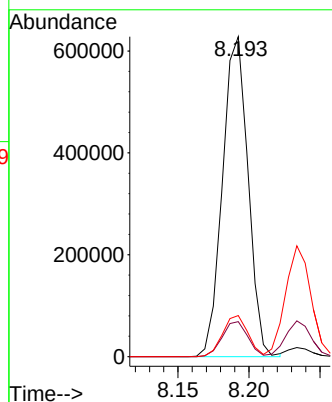
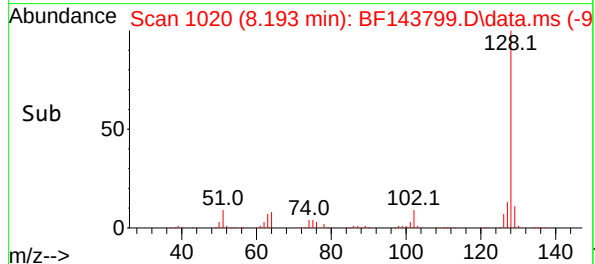
Instrument :  
BNA\_F  
ClientSampleId :  
ICVBF092325



Tgt Ion:128 Resp: 785137  
Ion Ratio Lower Upper  
128 100  
129 10.9 8.8 13.2  
127 12.8 10.2 15.4

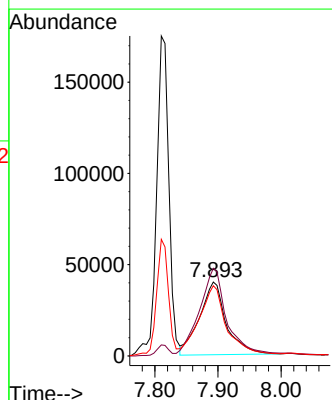
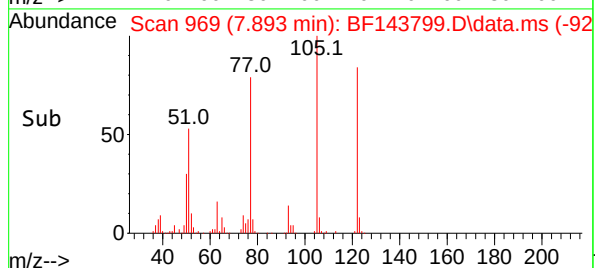
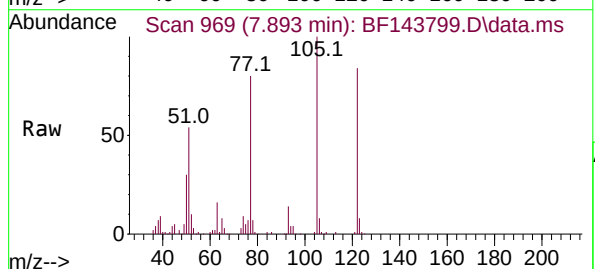
Manual Integrations  
APPROVED

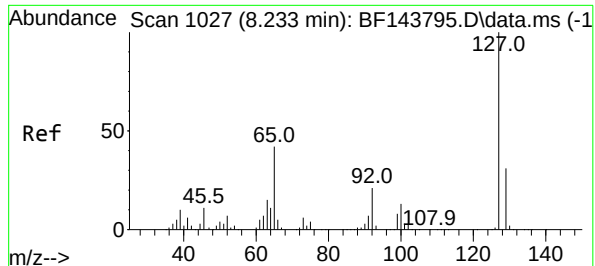
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#32  
Benzoic acid  
Concen: 43.922 ng  
RT: 7.893 min Scan# 969  
Delta R.T. -0.029 min  
Lab File: BF143799.D  
Acq: 23 Sep 2025 17:42

Tgt Ion:122 Resp: 117697  
Ion Ratio Lower Upper  
122 100  
105 118.7 103.7 143.7  
77 94.9 78.8 118.8





#33

4-Chloroaniline

Concen: 41.955 ng

RT: 8.234 min Scan# 1027

Delta R.T. -0.006 min

Lab File: BF143799.D

Acq: 23 Sep 2025 17:42

Instrument :

BNA\_F

ClientSampleId :

ICVBF092325

Tgt Ion:127 Resp: 275488

Ion Ratio Lower Upper

127 100

129 32.2 25.4 38.2

65 42.5 33.4 50.2

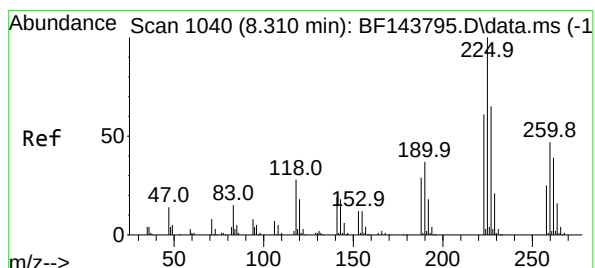
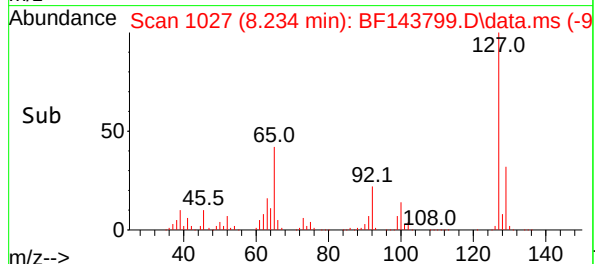
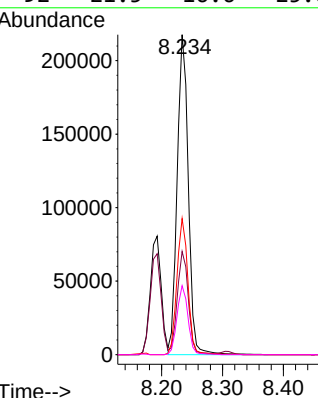
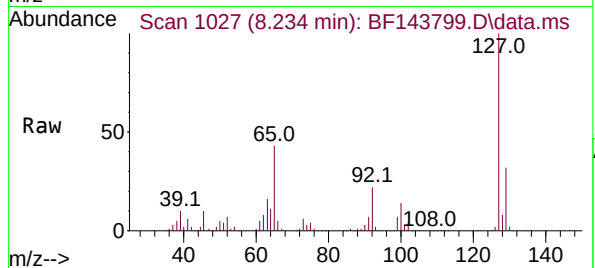
92 21.5 16.6 25.0

Manual Integrations

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Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#34

Hexachlorobutadiene

Concen: 42.413 ng

RT: 8.310 min Scan# 1040

Delta R.T. 0.000 min

Lab File: BF143799.D

Acq: 23 Sep 2025 17:42

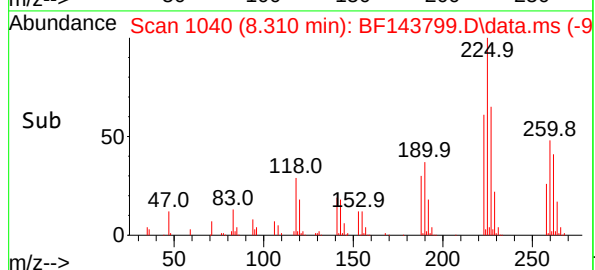
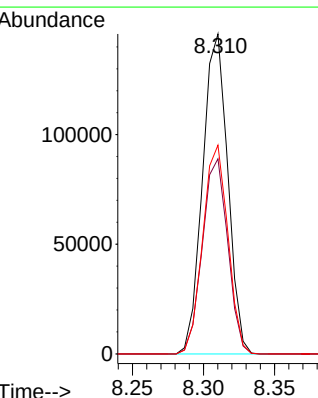
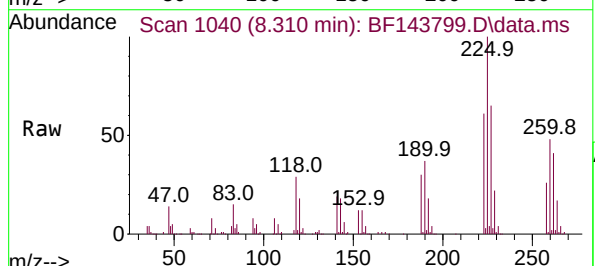
Tgt Ion:225 Resp: 179313

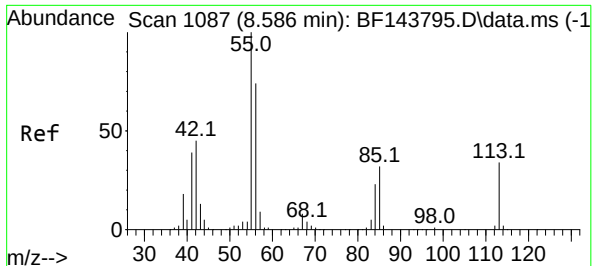
Ion Ratio Lower Upper

225 100

223 61.0 48.6 72.8

227 65.2 51.9 77.9





#35  
Caprolactam  
Concen: 44.018 ng  
RT: 8.587 min Scan# 1087  
Delta R.T. -0.023 min  
Lab File: BF143799.D  
Acq: 23 Sep 2025 17:42

Instrument :

BNA\_F

ClientSampleId :

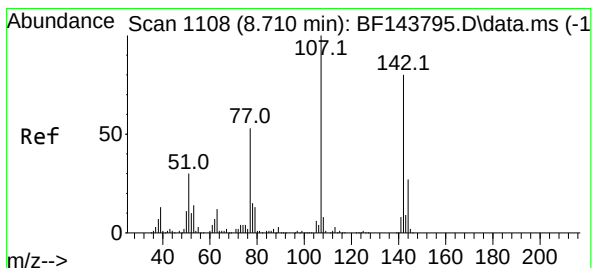
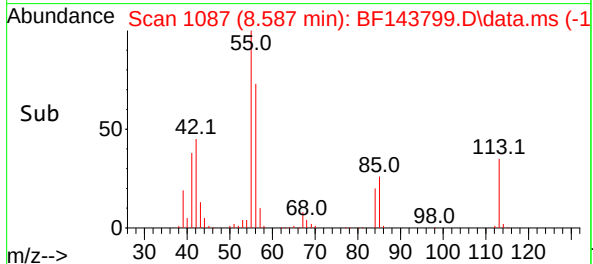
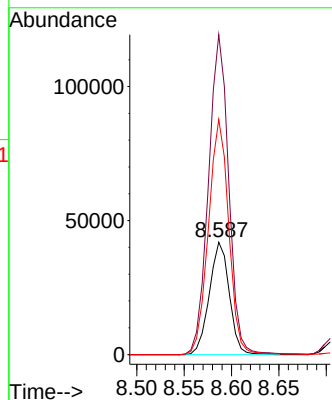
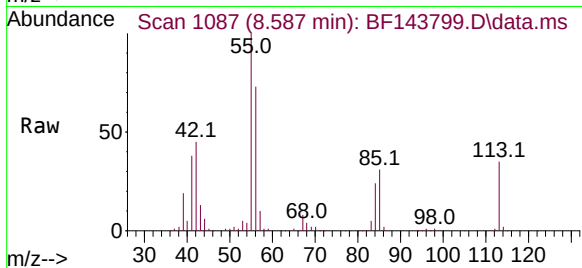
ICVBF092325

Tgt Ion:113 Resp: 61486  
Ion Ratio Lower Upper  
113 100  
55 284.8 271.7 311.7  
56 209.2 194.5 234.5

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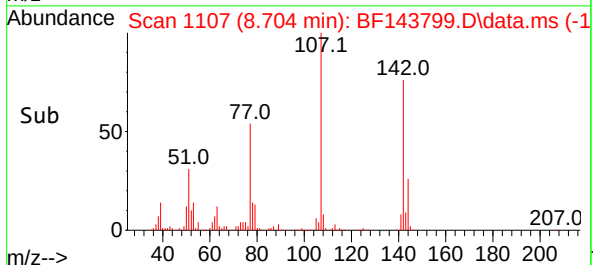
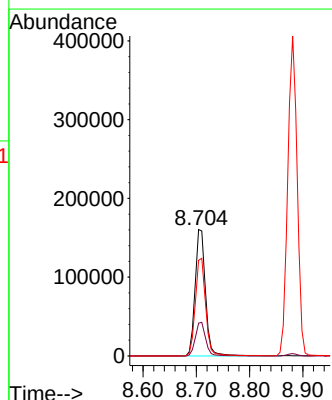
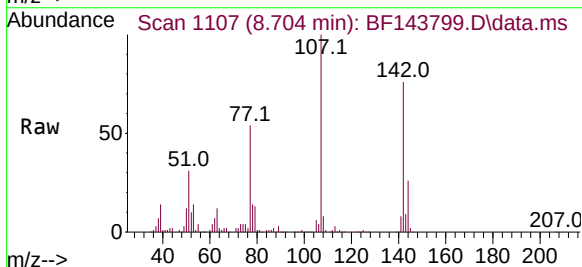
APPROVED

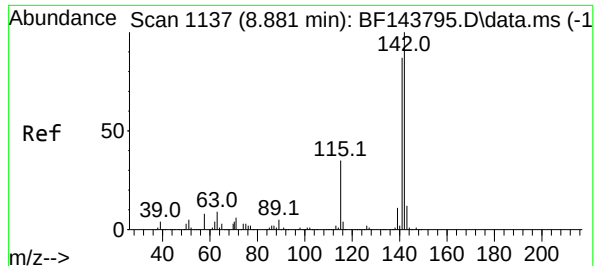
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#36  
4-Chloro-3-methylphenol  
Concen: 42.485 ng  
RT: 8.704 min Scan# 1107  
Delta R.T. -0.006 min  
Lab File: BF143799.D  
Acq: 23 Sep 2025 17:42

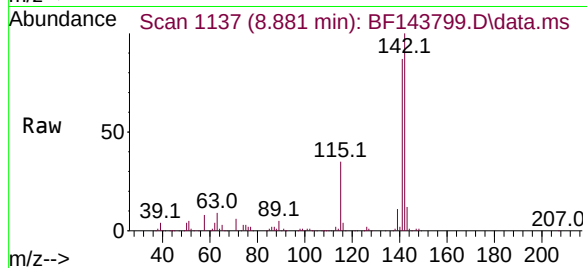
Tgt Ion:107 Resp: 217750  
Ion Ratio Lower Upper  
107 100  
144 26.0 21.8 32.8  
142 75.7 63.6 95.4





#37  
2-Methylnaphthalene  
Concen: 41.689 ng  
RT: 8.881 min Scan# 1137  
Delta R.T. 0.000 min  
Lab File: BF143799.D  
Acq: 23 Sep 2025 17:42

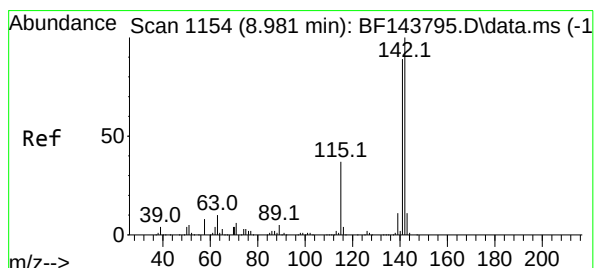
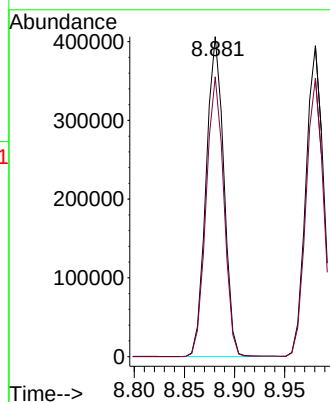
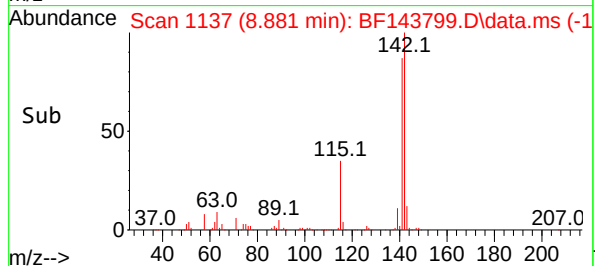
Instrument :  
BNA\_F  
ClientSampleId :  
ICVBF092325



Tgt Ion:142 Resp: 496707  
Ion Ratio Lower Upper  
142 100  
141 87.4 69.4 104.0

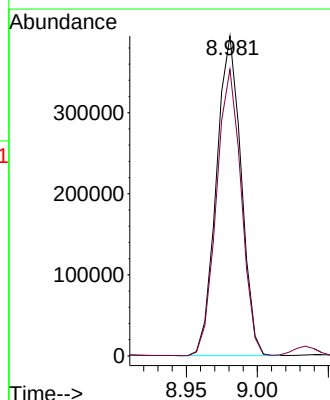
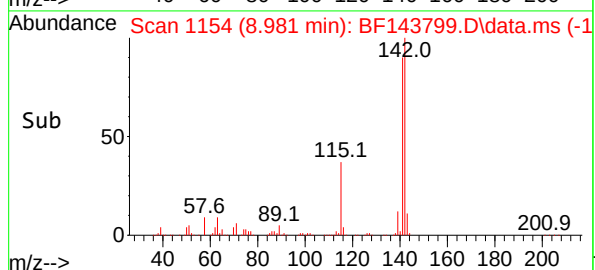
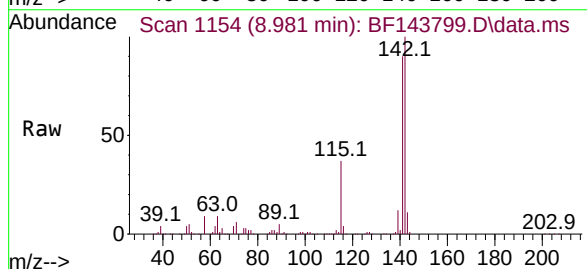
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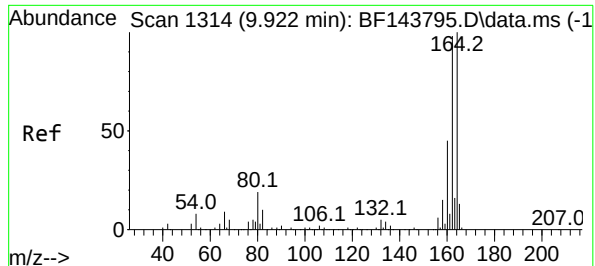
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#38  
1-Methylnaphthalene  
Concen: 41.968 ng  
RT: 8.981 min Scan# 1154  
Delta R.T. 0.000 min  
Lab File: BF143799.D  
Acq: 23 Sep 2025 17:42

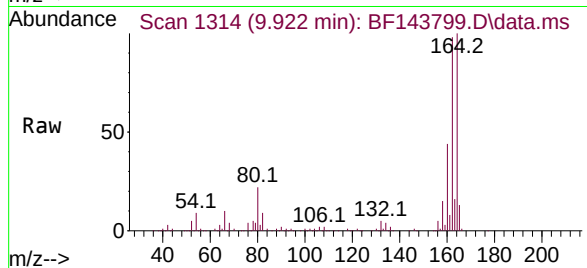
Tgt Ion:142 Resp: 478612  
Ion Ratio Lower Upper  
142 100  
141 89.5 71.1 106.7





#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.922 min Scan# 1314  
Delta R.T. -0.006 min  
Lab File: BF143799.D  
Acq: 23 Sep 2025 17:42

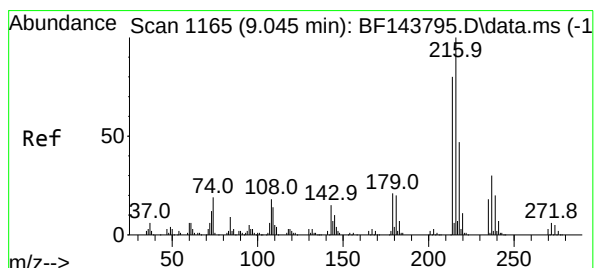
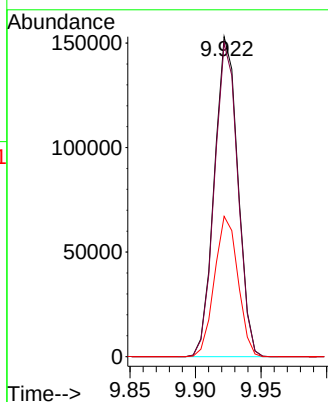
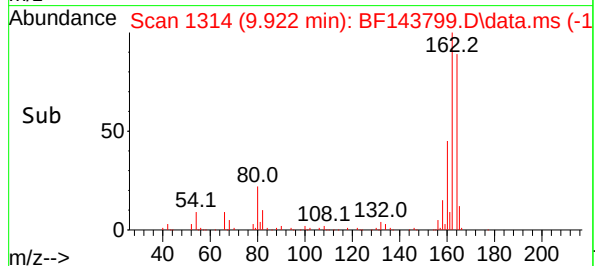
Instrument :  
BNA\_F  
ClientSampleId :  
ICVBF092325



Tgt Ion:164 Resp: 191064  
Ion Ratio Lower Upper  
164 100  
162 97.9 78.8 118.2  
160 43.8 35.8 53.6

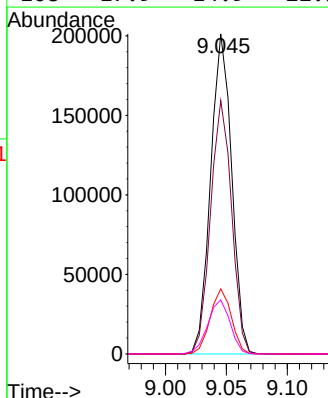
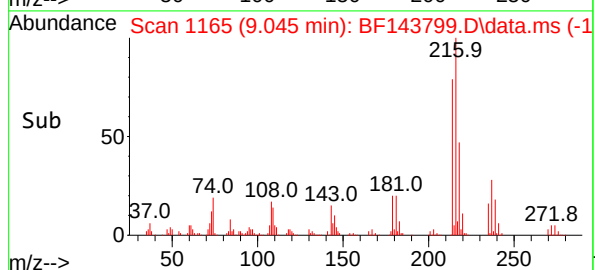
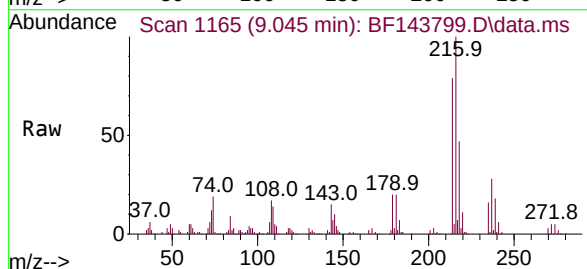
Manual Integrations  
APPROVED

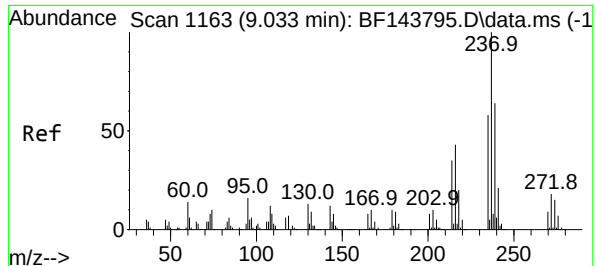
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#40  
1,2,4,5-Tetrachlorobenzene  
Concen: 41.989 ng  
RT: 9.045 min Scan# 1165  
Delta R.T. -0.006 min  
Lab File: BF143799.D  
Acq: 23 Sep 2025 17:42

Tgt Ion:216 Resp: 242106  
Ion Ratio Lower Upper  
216 100  
214 79.0 63.7 95.5  
179 20.4 16.5 24.7  
108 17.9 14.9 22.3





#41

Hexachlorocyclopentadiene

Concen: 43.786 ng

RT: 9.034 min Scan# 1163

Delta R.T. -0.006 min

Lab File: BF143799.D

Acq: 23 Sep 2025 17:42

Instrument :

BNA\_F

ClientSampleId :

ICVBF092325

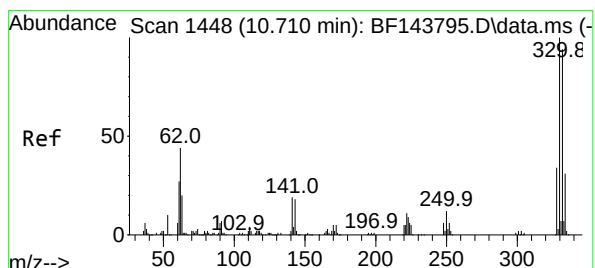
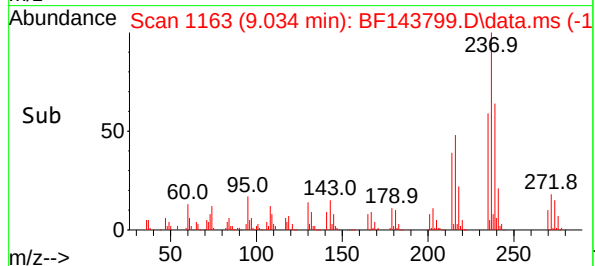
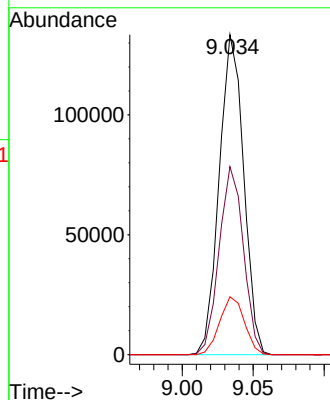
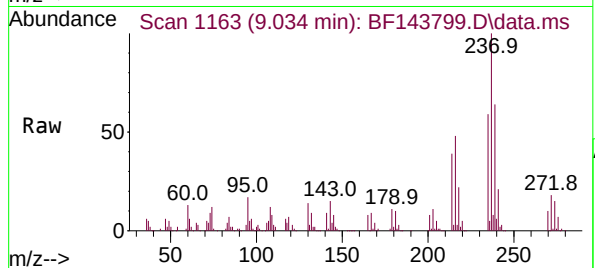
|             |                |
|-------------|----------------|
| Tgt Ion:237 | Resp: 160009   |
| Ion Ratio   | Lower Upper    |
| 237         | 100            |
| 235         | 58.7 38.1 78.1 |
| 272         | 18.1 0.0 37.9  |

Manual Integrations

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Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#42

2,4,6-Tribromophenol

Concen: 95.600 ng

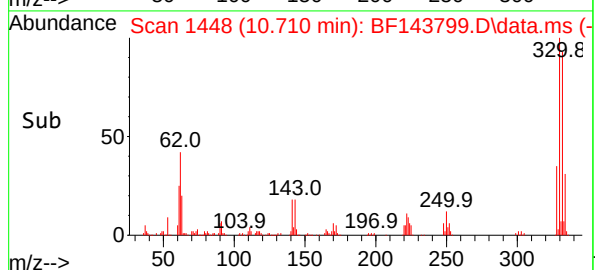
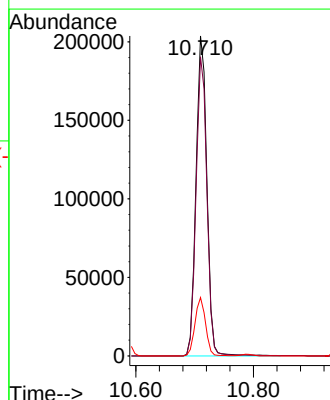
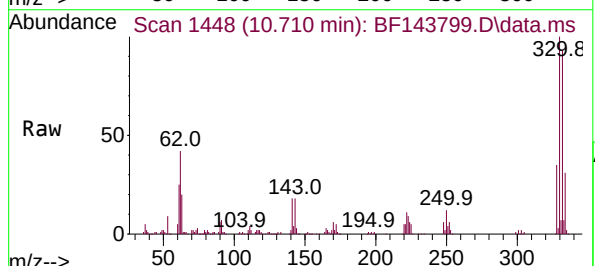
RT: 10.710 min Scan# 1448

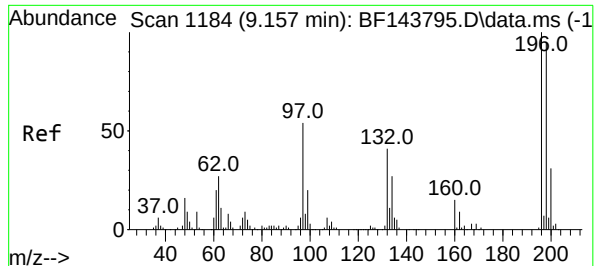
Delta R.T. -0.006 min

Lab File: BF143799.D

Acq: 23 Sep 2025 17:42

|             |                 |
|-------------|-----------------|
| Tgt Ion:330 | Resp: 260676    |
| Ion Ratio   | Lower Upper     |
| 330         | 100             |
| 332         | 93.5 74.7 112.1 |
| 141         | 17.8 14.3 21.5  |





#43

2,4,6-Trichlorophenol

Concen: 45.018 ng

RT: 9.157 min Scan# 1184

Delta R.T. 0.000 min

Lab File: BF143799.D

Acq: 23 Sep 2025 17:42

Instrument :

BNA\_F

ClientSampleId :

ICVBF092325

Tgt Ion:196 Resp: 16253

Ion Ratio Lower Upper

196 100

198 97.4 76.2 114.2

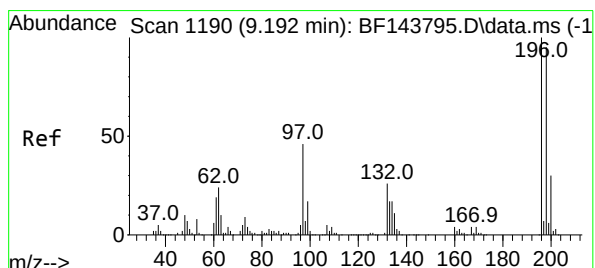
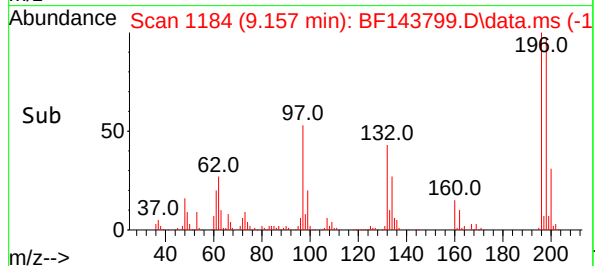
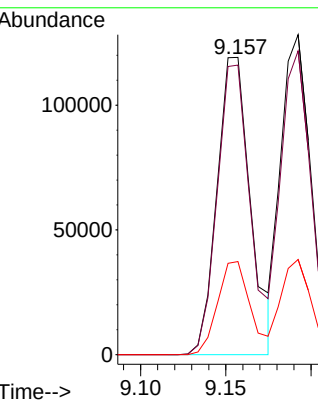
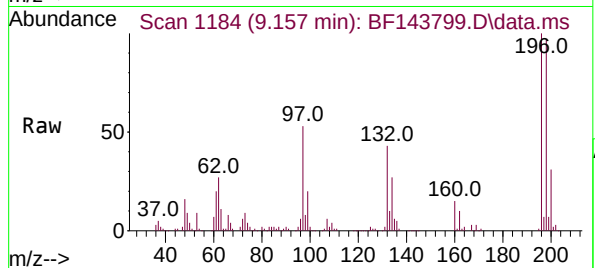
200 31.3 24.7 37.1

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#44

2,4,5-Trichlorophenol

Concen: 42.310 ng

RT: 9.192 min Scan# 1190

Delta R.T. 0.000 min

Lab File: BF143799.D

Acq: 23 Sep 2025 17:42

Tgt Ion:196 Resp: 159783

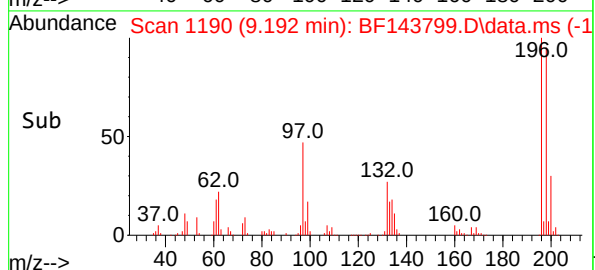
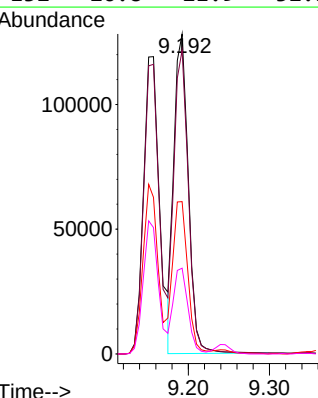
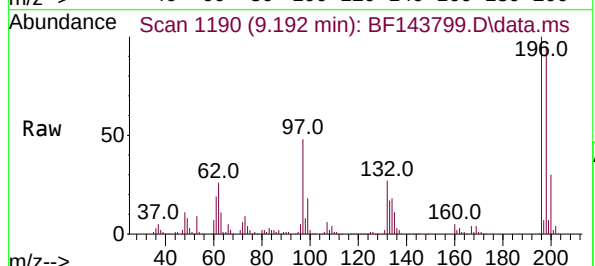
Ion Ratio Lower Upper

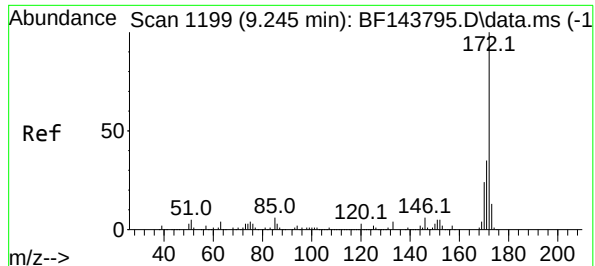
196 100

198 94.9 75.9 113.9

97 47.6 38.3 57.5

132 26.8 21.9 32.9





#45

2-Fluorobiphenyl

Concen: 79.843 ng

RT: 9.245 min Scan# 1199

Delta R.T. 0.000 min

Lab File: BF143799.D

Acq: 23 Sep 2025 17:42

Instrument :

BNA\_F

ClientSampleId :

ICVBF092325

Tgt Ion:172 Resp: 1032314

Ion Ratio Lower Upper

172 100

171 34.4 27.9 41.9

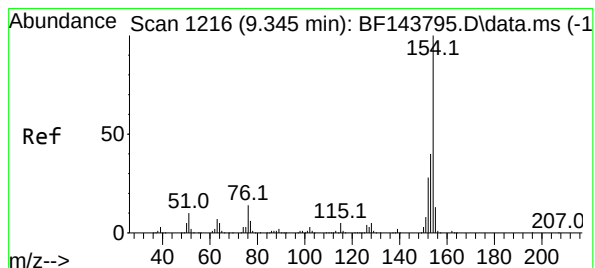
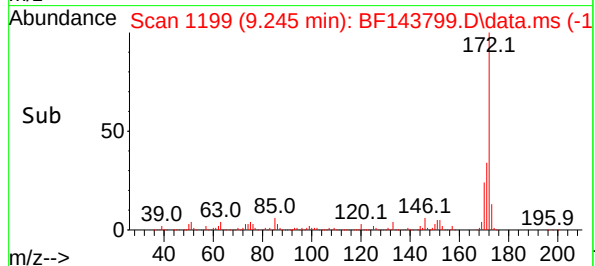
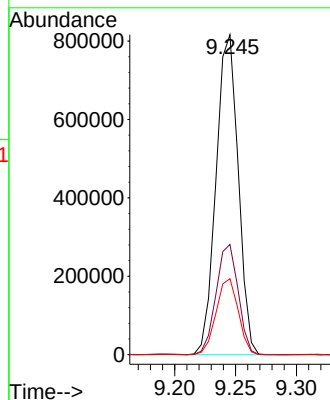
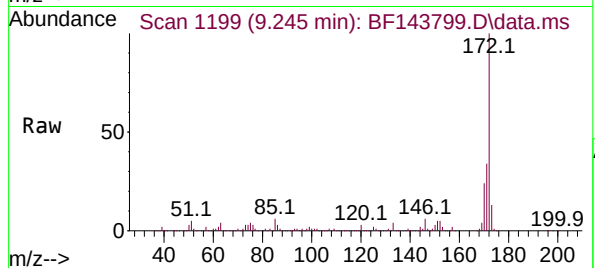
170 23.7 19.1 28.7

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#46

1,1'-Biphenyl

Concen: 41.254 ng

RT: 9.345 min Scan# 1216

Delta R.T. 0.000 min

Lab File: BF143799.D

Acq: 23 Sep 2025 17:42

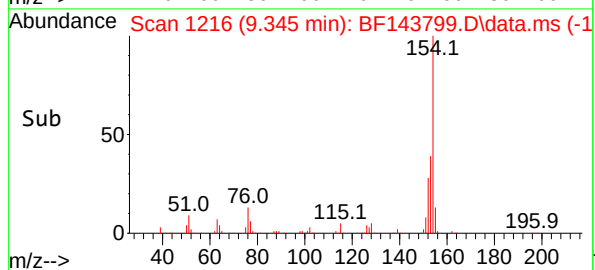
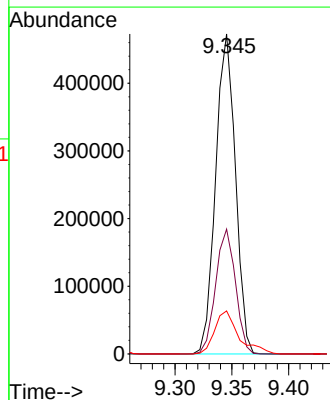
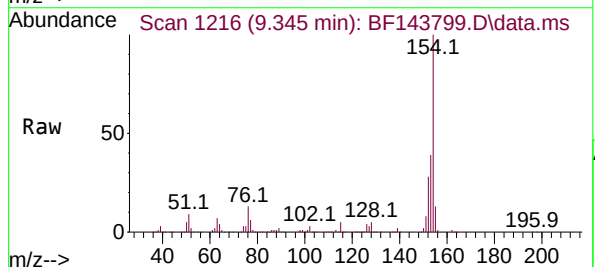
Tgt Ion:154 Resp: 570562

Ion Ratio Lower Upper

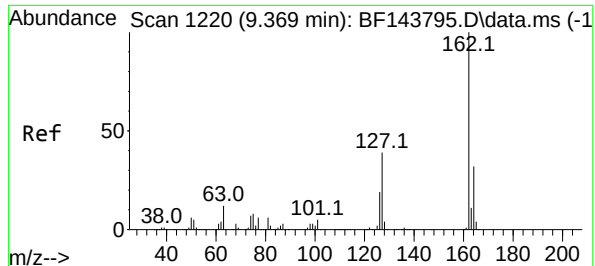
154 100

153 39.0 19.7 59.7

76 13.4 0.0 33.8







#47

2-Chloronaphthalene

Concen: 41.133 ng

RT: 9.369 min Scan# 1220

Delta R.T. -0.006 min

Lab File: BF143799.D

Acq: 23 Sep 2025 17:42

Instrument :

BNA\_F

ClientSampleId :

ICVBF092325

Tgt Ion:162 Resp: 457929

Ion Ratio Lower Upper

162 100

127 40.7 31.5 47.3

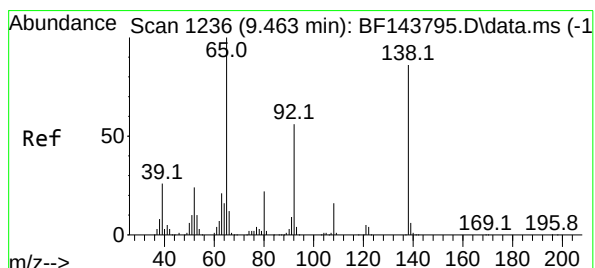
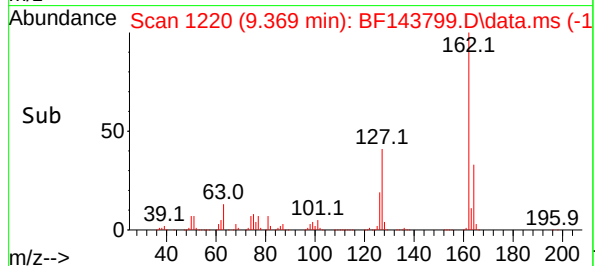
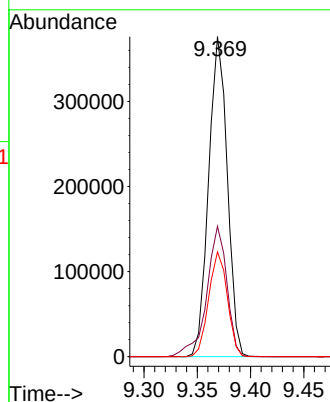
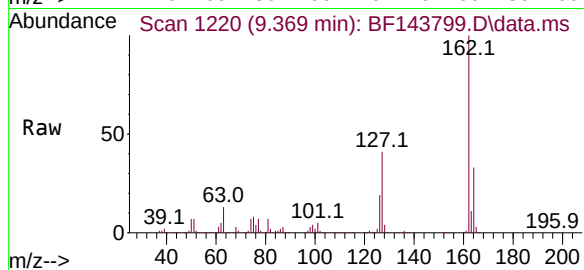
164 32.7 25.9 38.9

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#48

2-Nitroaniline

Concen: 48.090 ng

RT: 9.463 min Scan# 1236

Delta R.T. 0.000 min

Lab File: BF143799.D

Acq: 23 Sep 2025 17:42

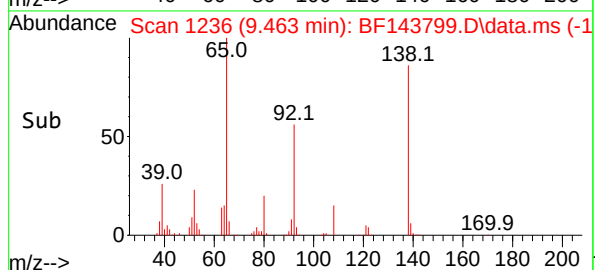
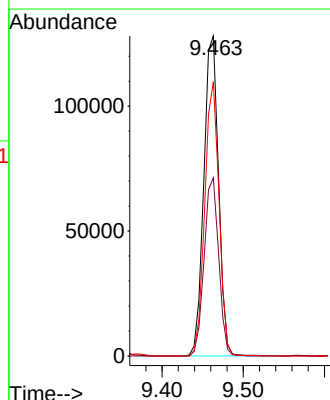
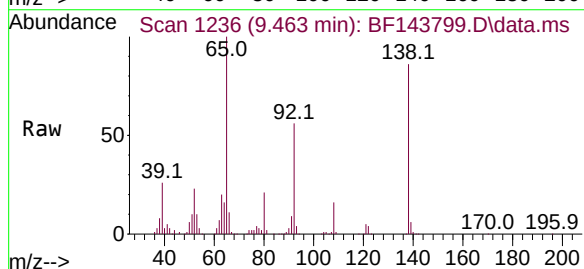
Tgt Ion: 65 Resp: 161814

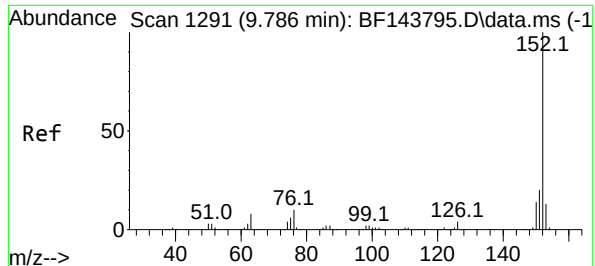
Ion Ratio Lower Upper

65 100

92 55.6 44.9 67.3

138 85.7 69.0 103.4





#49

Acenaphthylene

Concen: 42.279 ng

RT: 9.787 min Scan# 1291

Delta R.T. 0.000 min

Lab File: BF143799.D

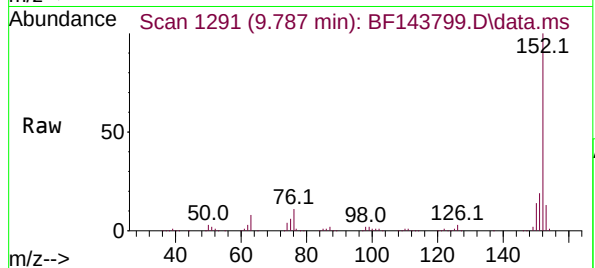
Acq: 23 Sep 2025 17:42

Instrument :

BNA\_F

ClientSampleId :

ICVBF092325



Tgt Ion:152 Resp: 647976

Ion Ratio Lower Upper

152 100

151 19.3 15.7 23.5

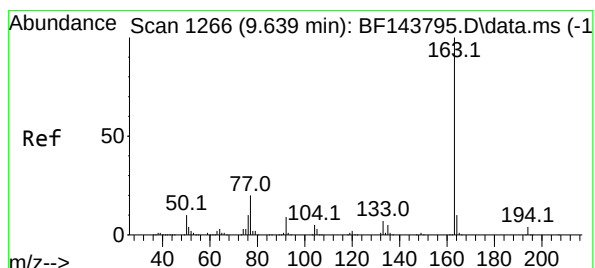
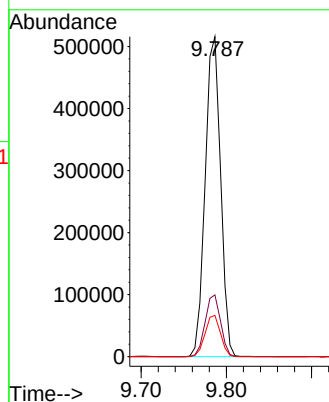
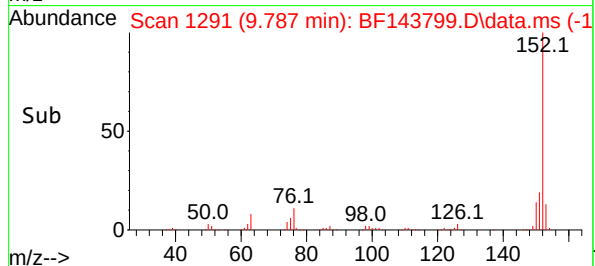
153 12.9 10.6 15.8

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#50

Dimethylphthalate

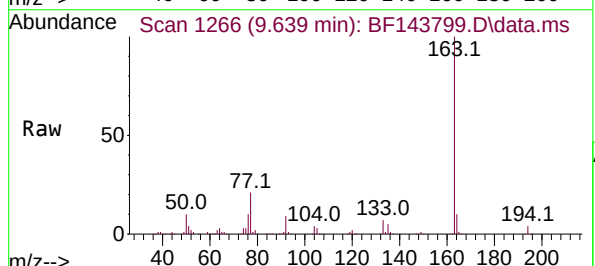
Concen: 42.624 ng

RT: 9.639 min Scan# 1266

Delta R.T. 0.000 min

Lab File: BF143799.D

Acq: 23 Sep 2025 17:42



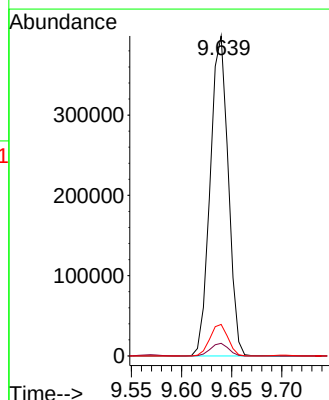
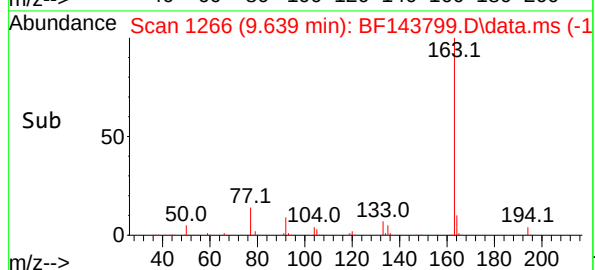
Tgt Ion:163 Resp: 496374

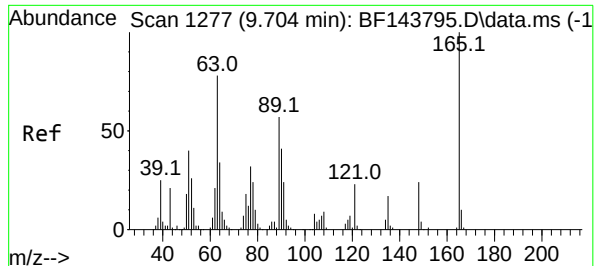
Ion Ratio Lower Upper

163 100

194 3.9 3.0 4.6

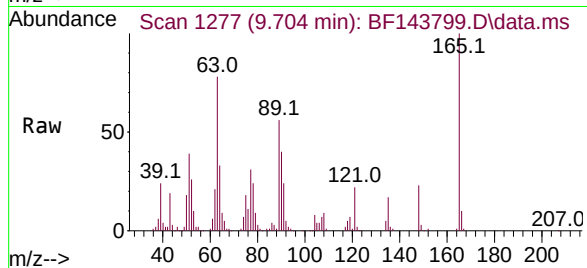
164 9.8 8.2 12.2





#51  
2,6-Dinitrotoluene  
Concen: 48.254 ng  
RT: 9.704 min Scan# 1277  
Delta R.T. 0.000 min  
Lab File: BF143799.D  
Acq: 23 Sep 2025 17:42

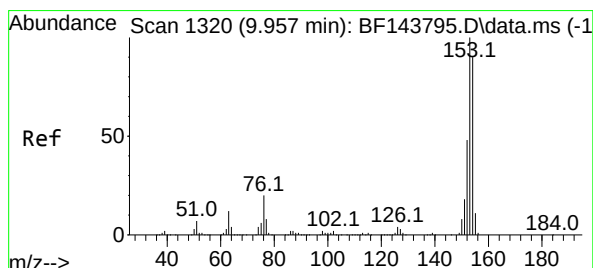
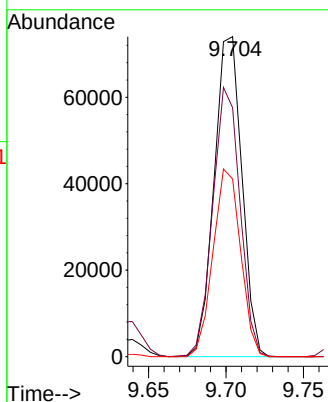
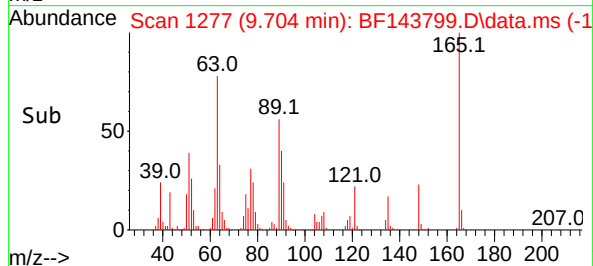
Instrument :  
BNA\_F  
ClientSampleId :  
ICVBF092325



Tgt Ion:165 Resp: 92326  
Ion Ratio Lower Upper  
165 100  
63 77.8 62.6 94.0  
89 55.5 45.2 67.8

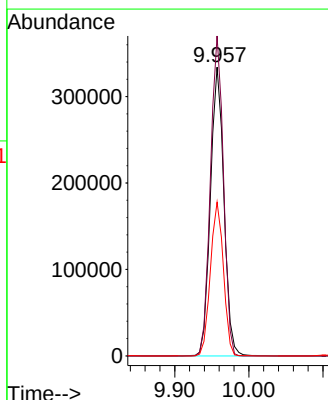
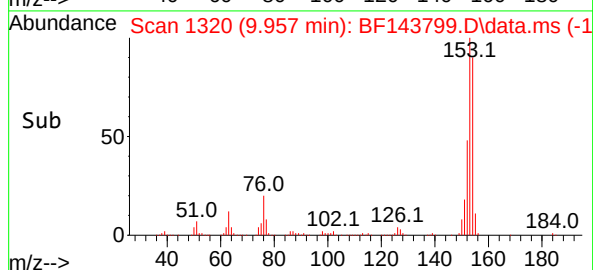
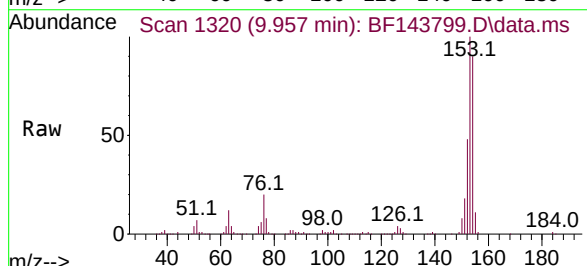
Manual Integrations  
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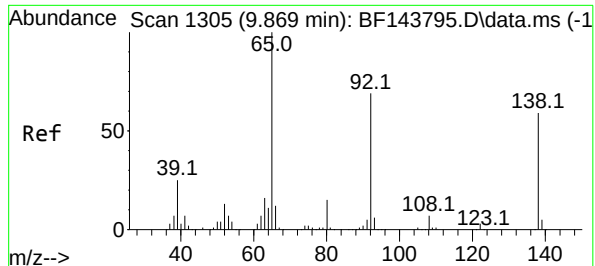
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#52  
Acenaphthene  
Concen: 41.869 ng  
RT: 9.957 min Scan# 1320  
Delta R.T. -0.006 min  
Lab File: BF143799.D  
Acq: 23 Sep 2025 17:42

Tgt Ion:154 Resp: 422277  
Ion Ratio Lower Upper  
154 100  
153 110.8 88.7 133.1  
152 53.2 42.7 64.1





#53

3-Nitroaniline

Concen: 47.665 ng

RT: 9.869 min Scan# 1305

Delta R.T. -0.006 min

Lab File: BF143799.D

Acq: 23 Sep 2025 17:42

Instrument :

BNA\_F

ClientSampleId :

ICVBF092325

Tgt Ion:138 Resp: 110544

Ion Ratio Lower Upper

138 100

108 11.8 9.9 14.9

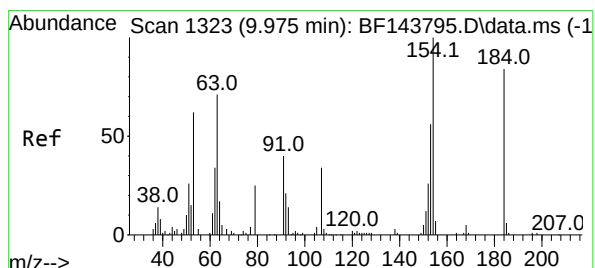
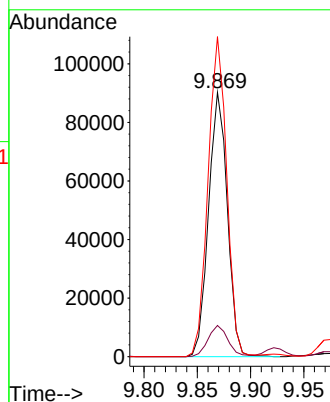
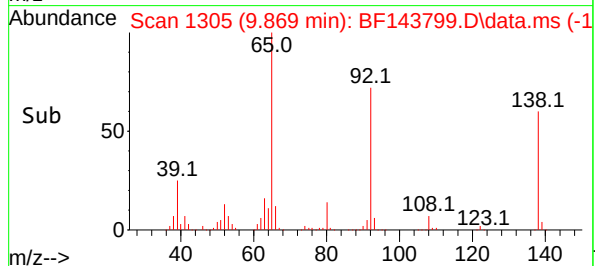
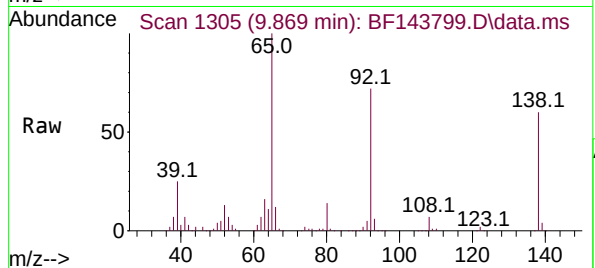
92 121.1 93.5 140.3

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#54

2,4-Dinitrophenol

Concen: 46.217 ng

RT: 9.975 min Scan# 1323

Delta R.T. -0.000 min

Lab File: BF143799.D

Acq: 23 Sep 2025 17:42

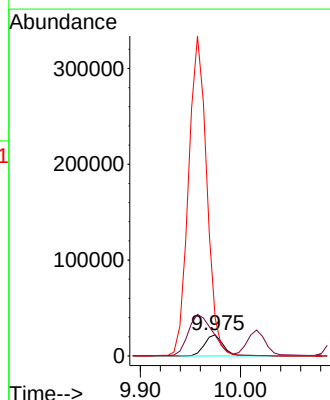
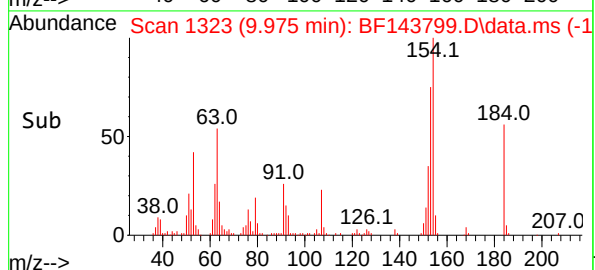
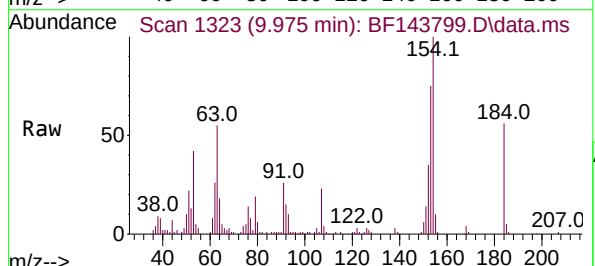
Tgt Ion:184 Resp: 28355

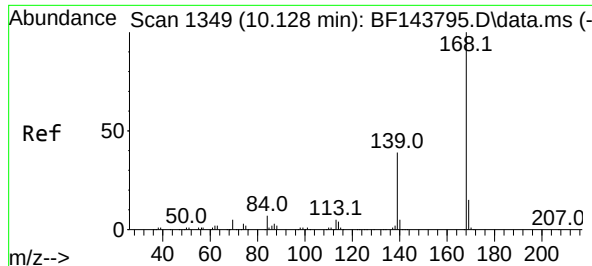
Ion Ratio Lower Upper

184 100

63 97.8 84.6 127.0

154 177.3 199.3 298.9#





#55

Dibenzofuran

Concen: 42.251 ng

RT: 10.128 min Scan# 1349

Delta R.T. -0.006 min

Lab File: BF143799.D

Acq: 23 Sep 2025 17:42

Instrument :

BNA\_F

ClientSampleId :

ICVBF092325

Tgt Ion:168 Resp: 602575

Ion Ratio Lower Upper

168 100

139 38.5 31.0 46.6

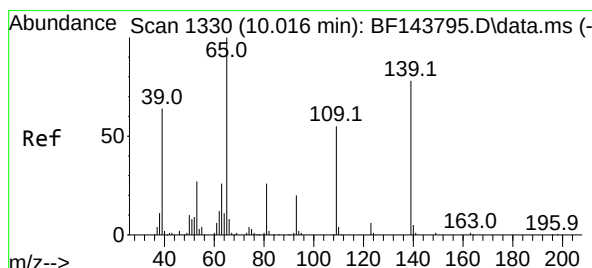
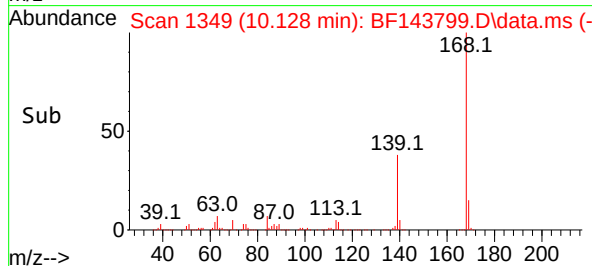
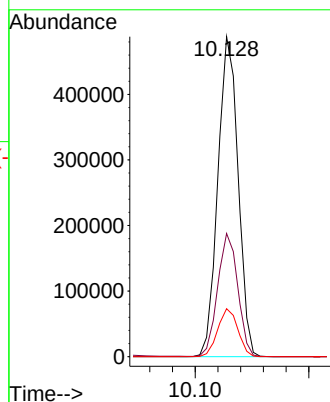
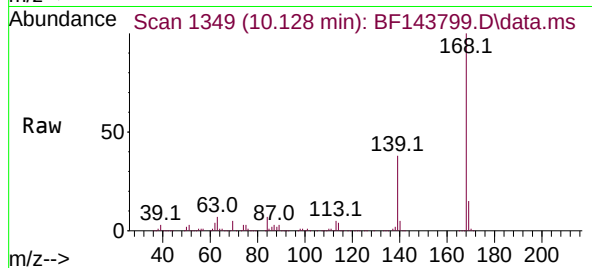
169 15.0 11.9 17.9

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#56

4-Nitrophenol

Concen: 45.864 ng

RT: 10.016 min Scan# 1330

Delta R.T. -0.006 min

Lab File: BF143799.D

Acq: 23 Sep 2025 17:42

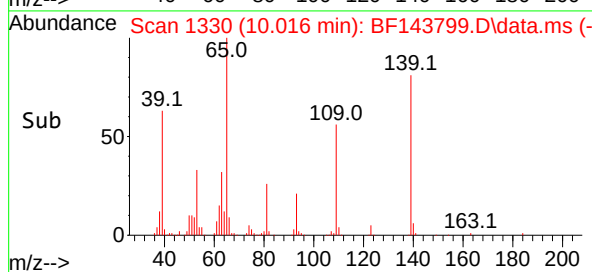
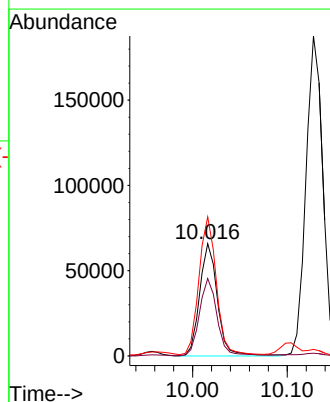
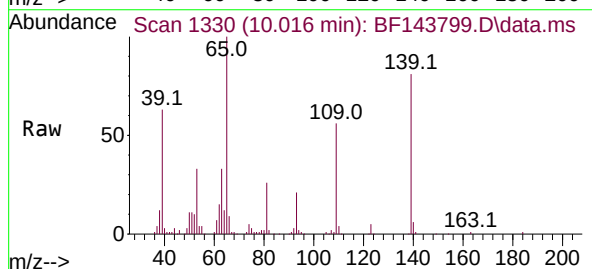
Tgt Ion:139 Resp: 85715

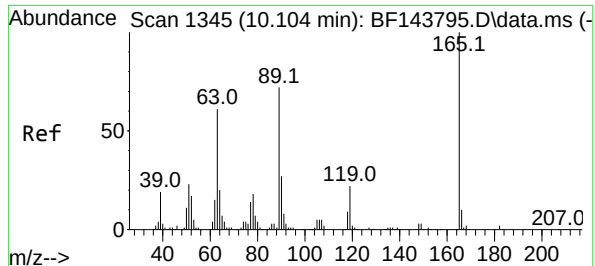
Ion Ratio Lower Upper

139 100

109 68.8 50.2 90.2

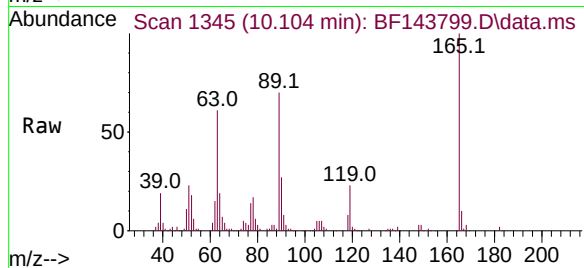
65 123.7 109.2 149.2





#57  
2,4-Dinitrotoluene  
Concen: 44.618 ng  
RT: 10.104 min Scan# 1345  
Delta R.T. -0.006 min  
Lab File: BF143799.D  
Acq: 23 Sep 2025 17:42

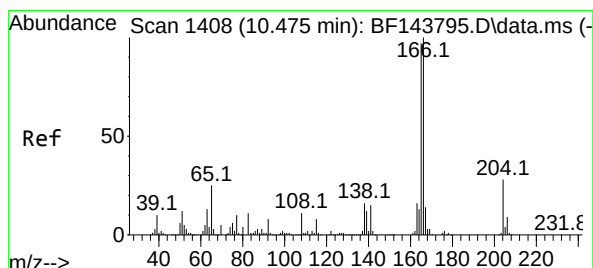
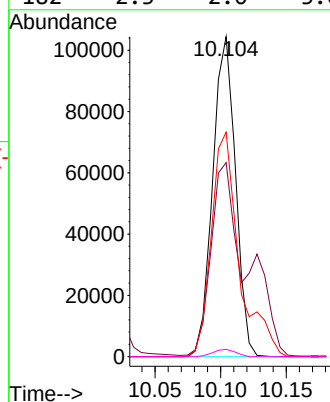
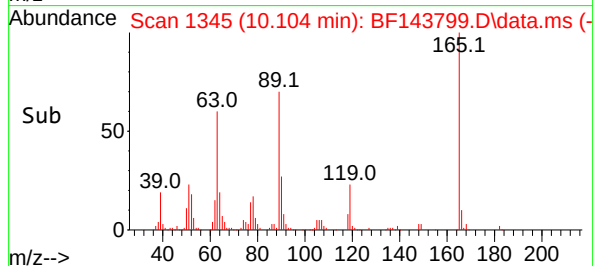
Instrument :  
BNA\_F  
ClientSampleId :  
ICVBF092325



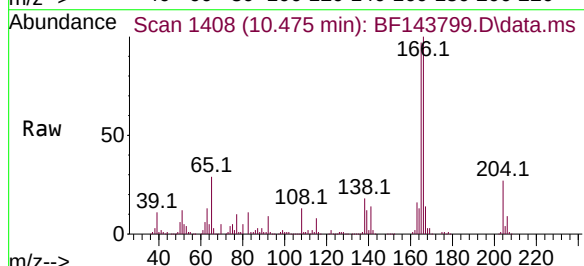
Tgt Ion:165 Resp: 126090  
Ion Ratio Lower Upper  
165 100  
63 60.6 48.9 73.3  
89 70.1 57.5 86.3  
182 2.3 2.0 3.0

Manual Integrations  
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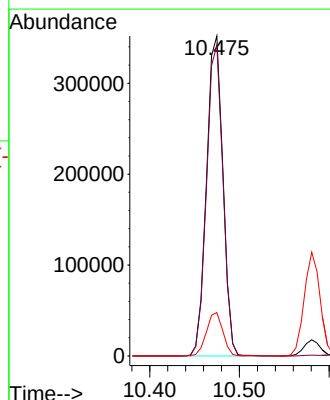
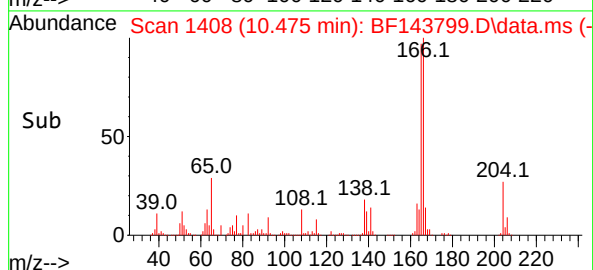
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025

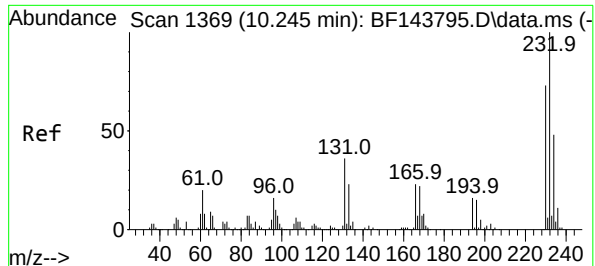


#58  
Fluorene  
Concen: 42.132 ng  
RT: 10.475 min Scan# 1408  
Delta R.T. 0.000 min  
Lab File: BF143799.D  
Acq: 23 Sep 2025 17:42



Tgt Ion:166 Resp: 446712  
Ion Ratio Lower Upper  
166 100  
165 97.1 78.0 117.0  
167 13.5 10.9 16.3





#59

2,3,4,6-Tetrachlorophenol

Concen: 46.097 ng

RT: 10.245 min Scan# 1369

Delta R.T. 0.000 min

Lab File: BF143799.D

Acq: 23 Sep 2025 17:42

Instrument :

BNA\_F

ClientSampleId :

ICVBF092325

Tgt Ion:232 Resp: 149133

Ion Ratio Lower Upper

232 100

131 35.9 29.4 44.2

130 1.6 1.3 1.9

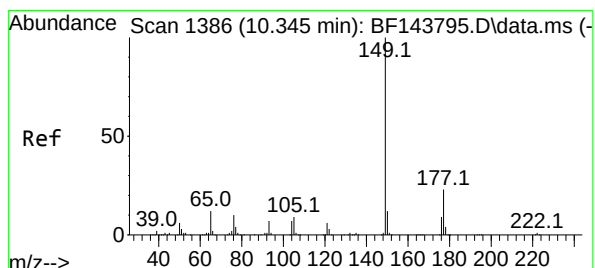
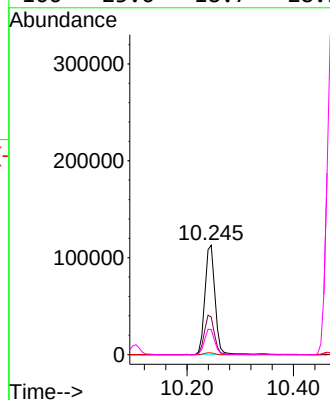
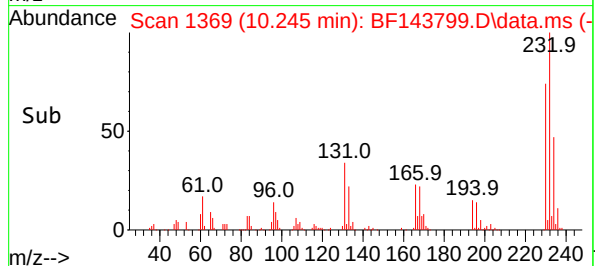
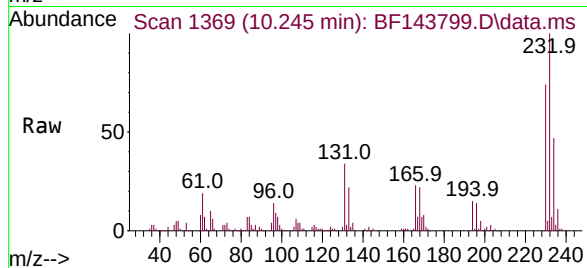
166 23.6 18.7 28.1

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#60

Diethylphthalate

Concen: 43.199 ng

RT: 10.345 min Scan# 1386

Delta R.T. 0.000 min

Lab File: BF143799.D

Acq: 23 Sep 2025 17:42

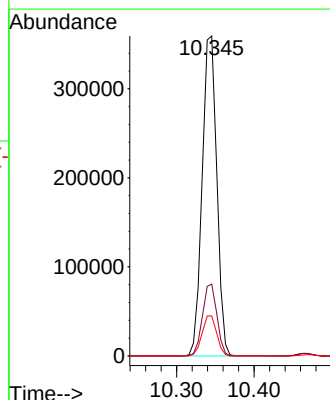
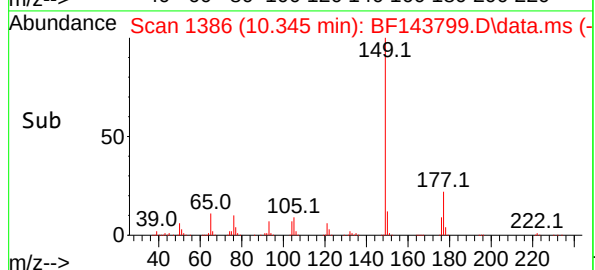
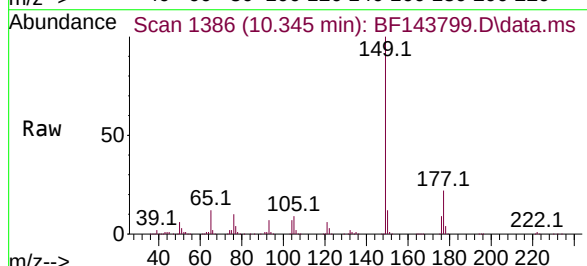
Tgt Ion:149 Resp: 470914

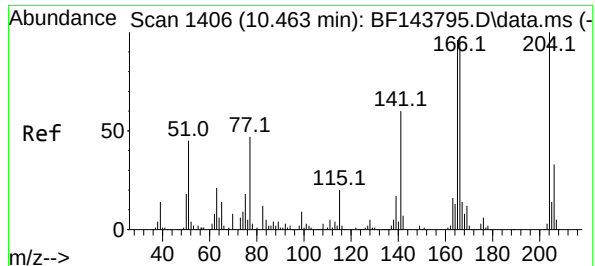
Ion Ratio Lower Upper

149 100

177 22.4 18.1 27.1

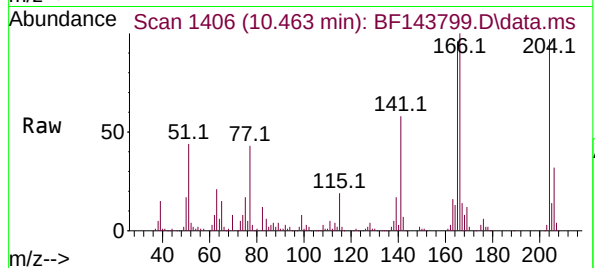
150 12.5 9.7 14.5





#61  
4-Chlorophenyl-phenylether  
Concen: 42.203 ng  
RT: 10.463 min Scan# 1406  
Delta R.T. -0.006 min  
Lab File: BF143799.D  
Acq: 23 Sep 2025 17:42

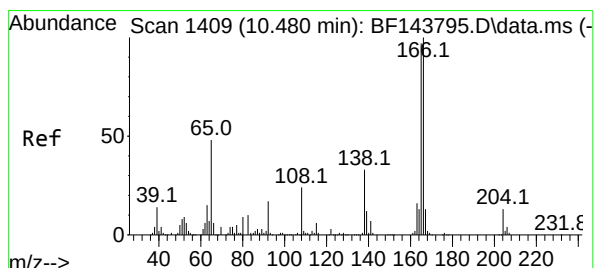
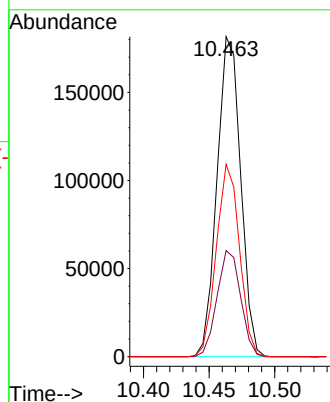
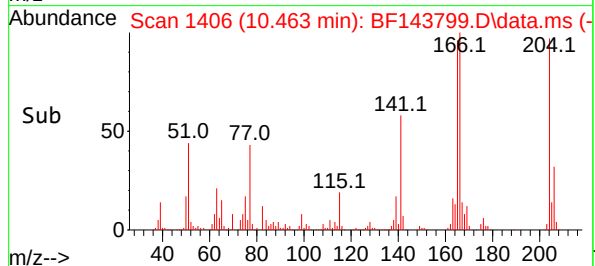
Instrument :  
BNA\_F  
ClientSampleId :  
ICVBF092325



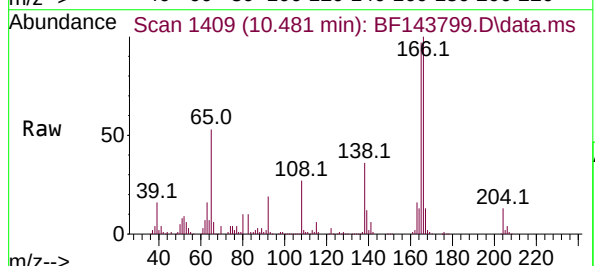
Tgt Ion:204 Resp: 227995  
Ion Ratio Lower Upper  
204 100  
206 33.1 26.7 40.1  
141 60.1 48.2 72.2

Manual Integrations  
APPROVED

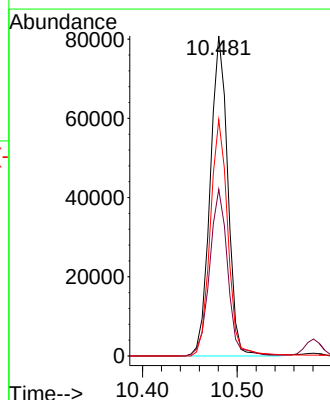
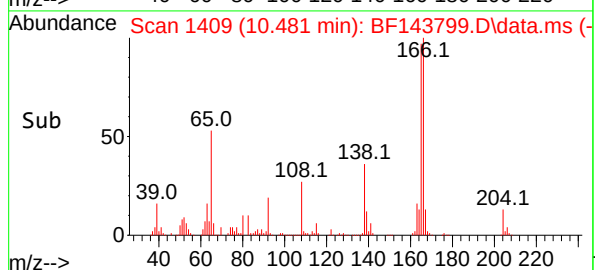
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



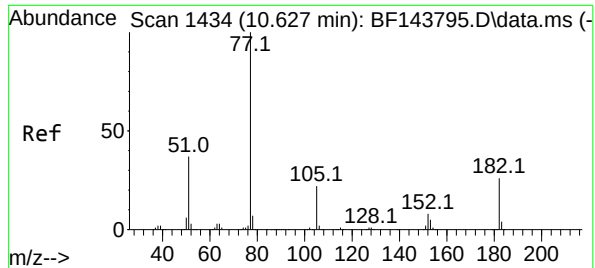
#62  
4-Nitroaniline  
Concen: 47.936 ng  
RT: 10.481 min Scan# 1409  
Delta R.T. -0.012 min  
Lab File: BF143799.D  
Acq: 23 Sep 2025 17:42



Tgt Ion:138 Resp: 104533  
Ion Ratio Lower Upper  
138 100  
92 52.1 31.5 71.5  
108 73.8 51.9 91.9

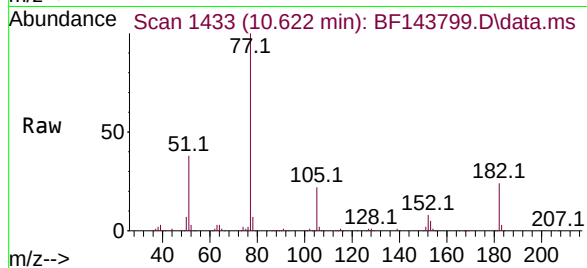






#63  
Azobenzene  
Concen: 42.769 ng  
RT: 10.622 min Scan# 1433  
Delta R.T. -0.006 min  
Lab File: BF143799.D  
Acq: 23 Sep 2025 17:42

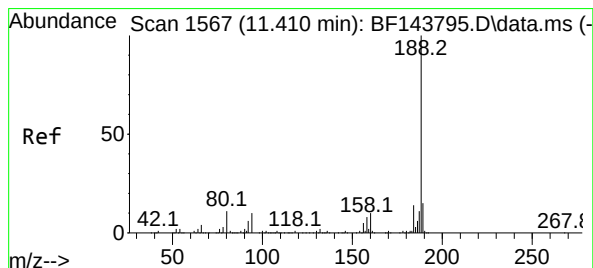
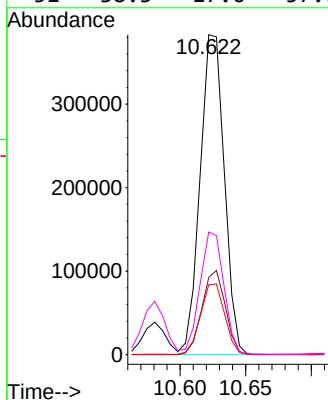
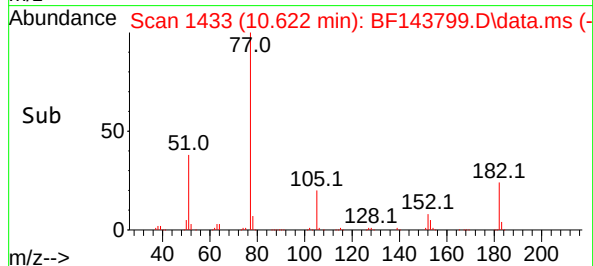
Instrument :  
BNA\_F  
Client Sample Id :  
ICVBF092325



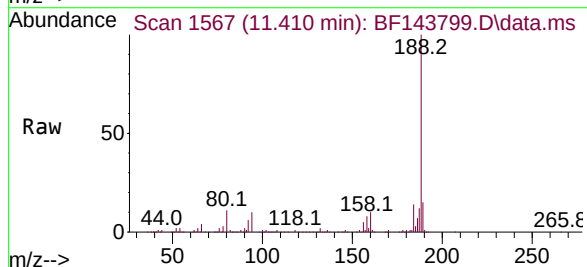
Tgt Ion: 77 Resp: 491364  
Ion Ratio Lower Upper  
77 100  
182 24.1 5.9 45.9  
105 21.8 2.3 42.3  
51 38.3 17.6 57.6

Manual Integrations  
APPROVED

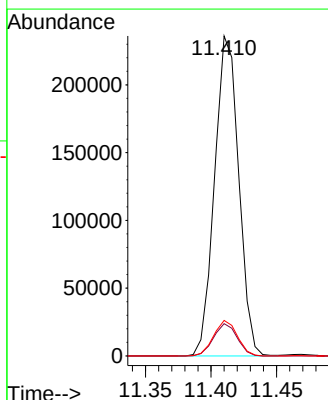
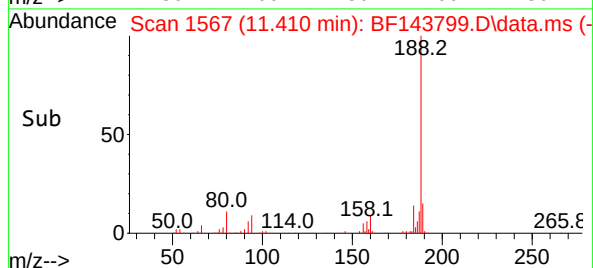
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025

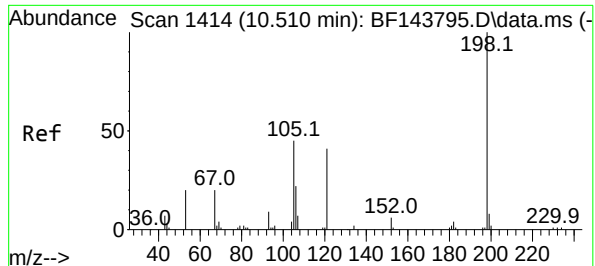


#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.410 min Scan# 1567  
Delta R.T. -0.006 min  
Lab File: BF143799.D  
Acq: 23 Sep 2025 17:42



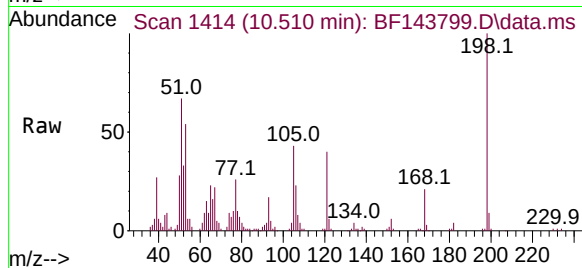
Tgt Ion:188 Resp: 302827  
Ion Ratio Lower Upper  
188 100  
94 10.1 8.2 12.2  
80 11.1 8.6 12.8





#65  
4,6-Dinitro-2-methylphenol  
Concen: 45.452 ng  
RT: 10.510 min Scan# 1414  
Delta R.T. -0.006 min  
Lab File: BF143799.D  
Acq: 23 Sep 2025 17:42

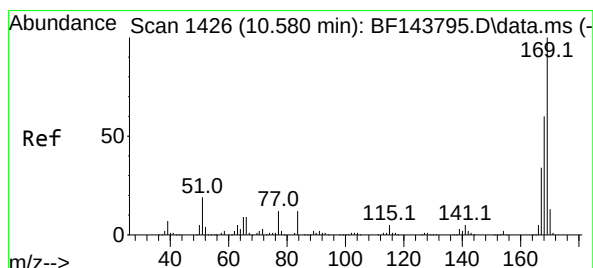
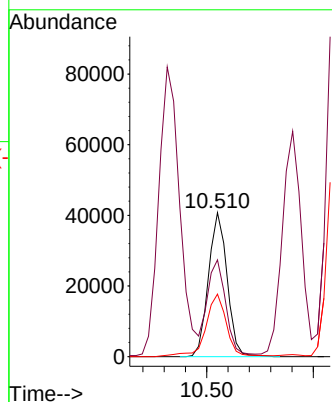
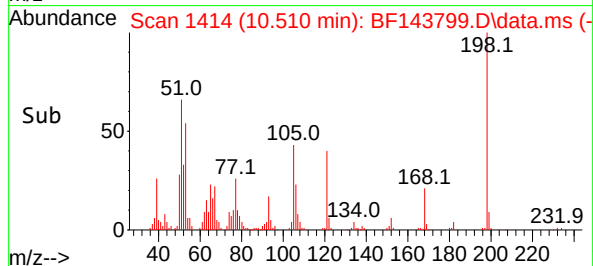
Instrument :  
BNA\_F  
ClientSampleId :  
ICVBF092325



Tgt Ion:198 Resp: 49519  
Ion Ratio Lower Upper  
198 100  
51 67.2 52.0 92.0  
105 43.5 27.5 67.5

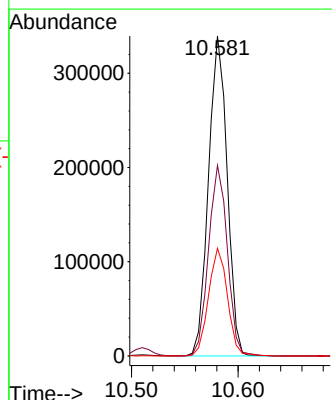
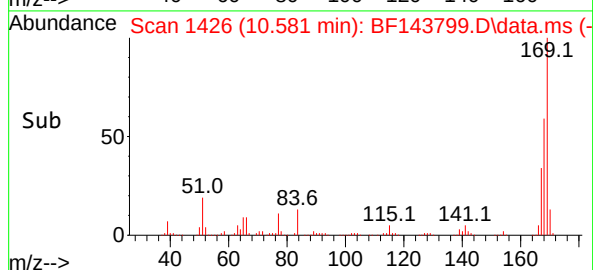
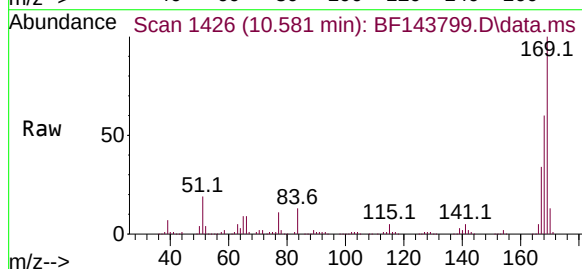
Manual Integrations  
APPROVED

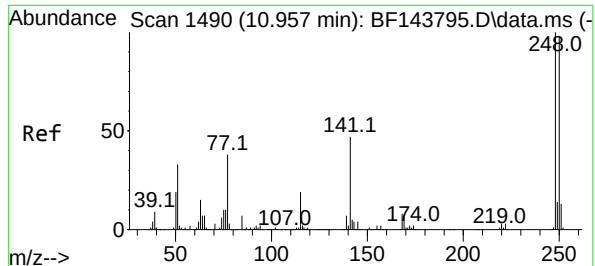
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#66  
n-Nitrosodiphenylamine  
Concen: 41.480 ng  
RT: 10.581 min Scan# 1426  
Delta R.T. -0.006 min  
Lab File: BF143799.D  
Acq: 23 Sep 2025 17:42

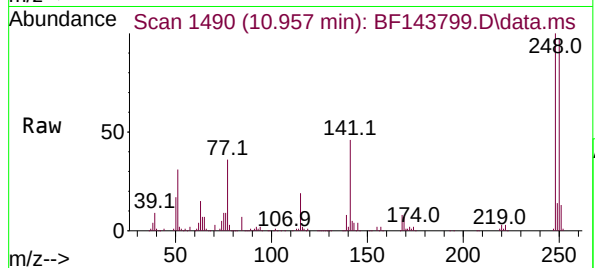
Tgt Ion:169 Resp: 413097  
Ion Ratio Lower Upper  
169 100  
168 59.5 47.9 71.9  
167 33.6 27.0 40.6





#67  
4-Bromophenyl-phenylether  
Concen: 42.884 ng  
RT: 10.957 min Scan# 1490  
Delta R.T. 0.000 min  
Lab File: BF143799.D  
Acq: 23 Sep 2025 17:42

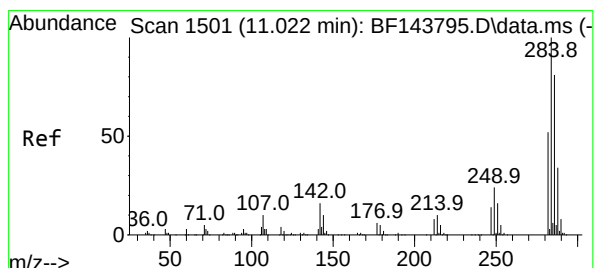
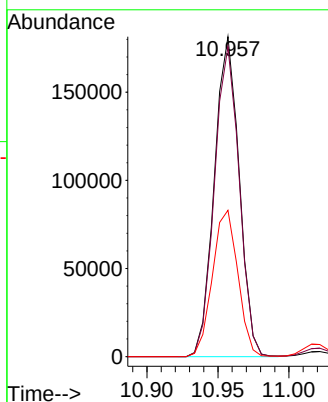
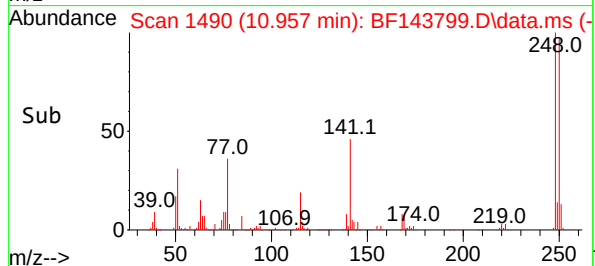
Instrument :  
BNA\_F  
ClientSampleId :  
ICVBF092325



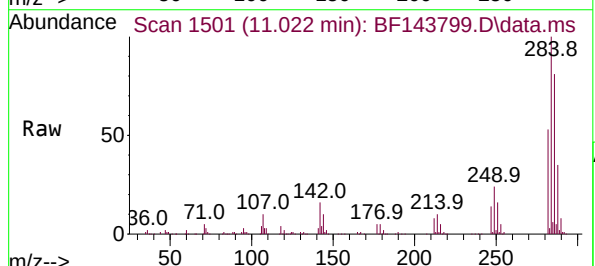
Tgt Ion:248 Resp: 221312  
Ion Ratio Lower Upper  
248 100  
250 96.9 78.7 118.1  
141 45.7 37.9 56.9

Manual Integrations  
APPROVED

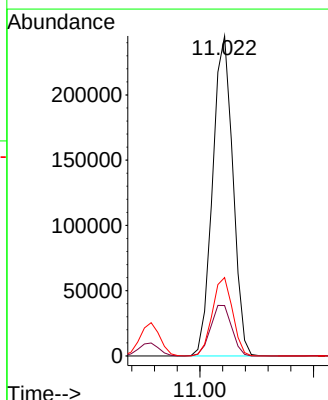
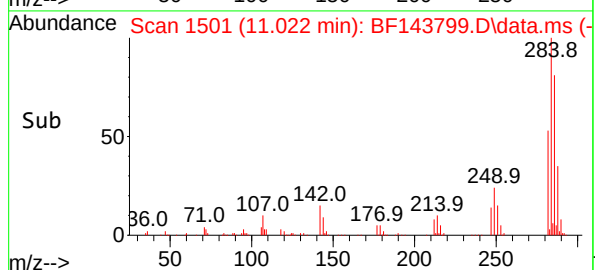
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025

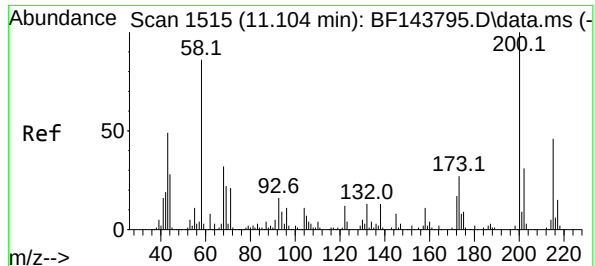


#68  
Hexachlorobenzene  
Concen: 42.661 ng  
RT: 11.022 min Scan# 1501  
Delta R.T. 0.000 min  
Lab File: BF143799.D  
Acq: 23 Sep 2025 17:42



Tgt Ion:284 Resp: 303404  
Ion Ratio Lower Upper  
284 100  
142 15.7 13.1 19.7  
249 24.5 19.5 29.3





#69

Atrazine

Concen: 45.083 ng

RT: 11.104 min Scan# 1515

Delta R.T. -0.006 min

Lab File: BF143799.D

Acq: 23 Sep 2025 17:42

Instrument :

BNA\_F

ClientSampleId :

ICVBF092325

Tgt Ion:200 Resp: 130018

Ion Ratio Lower Upper

200 100

173 27.5 7.2 47.2

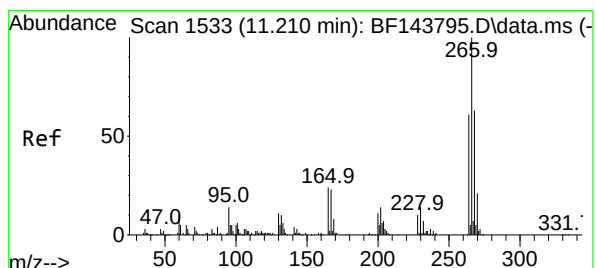
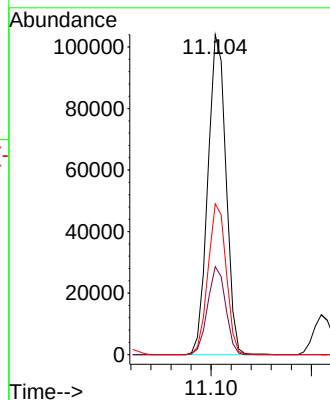
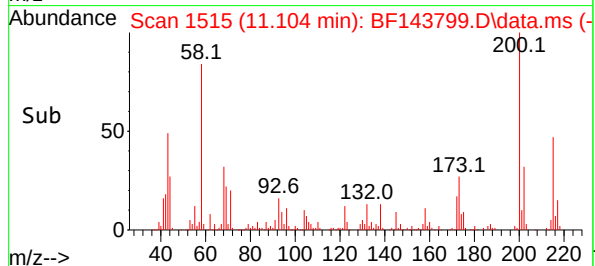
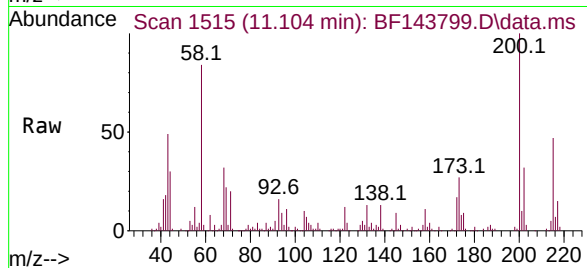
215 47.1 26.0 66.0

Manual Integrations

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Reviewed By :Rahul Chavli 09/24/2025

Supervised By :Jagrut Upadhyay 09/24/2025



#70

Pentachlorophenol

Concen: 46.307 ng

RT: 11.210 min Scan# 1533

Delta R.T. -0.006 min

Lab File: BF143799.D

Acq: 23 Sep 2025 17:42

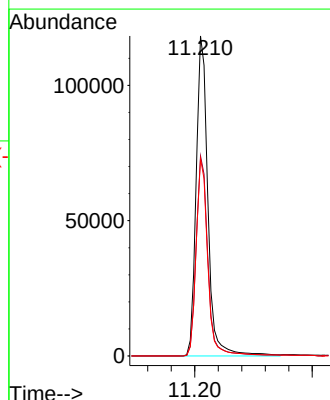
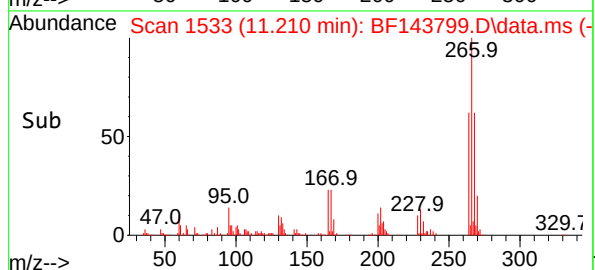
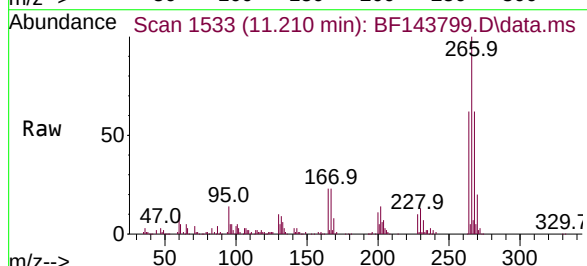
Tgt Ion:266 Resp: 163934

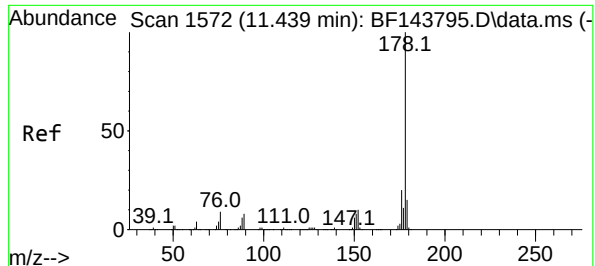
Ion Ratio Lower Upper

266 100

268 62.5 50.5 75.7

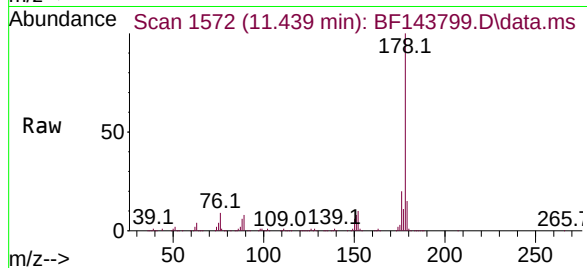
264 61.7 48.8 73.2





#71  
Phenanthrene  
Concen: 42.299 ng  
RT: 11.439 min Scan# 1572  
Delta R.T. 0.000 min  
Lab File: BF143799.D  
Acq: 23 Sep 2025 17:42

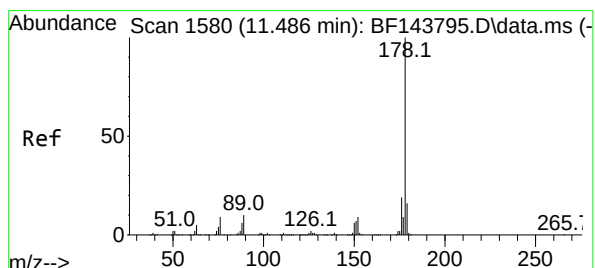
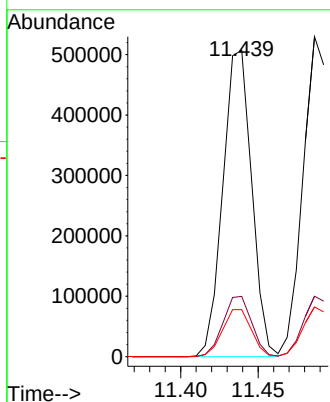
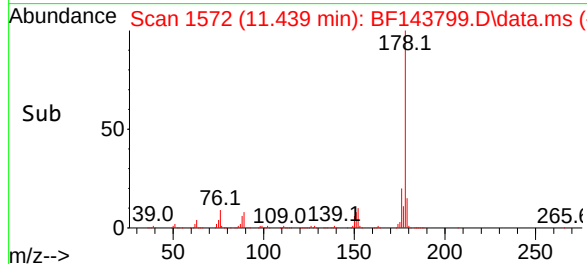
Instrument :  
BNA\_F  
ClientSampleId :  
ICVBF092325



Tgt Ion:178 Resp: 657630  
Ion Ratio Lower Upper  
178 100  
176 19.6 15.6 23.4  
179 15.3 12.2 18.4

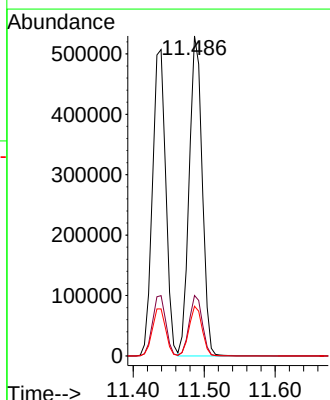
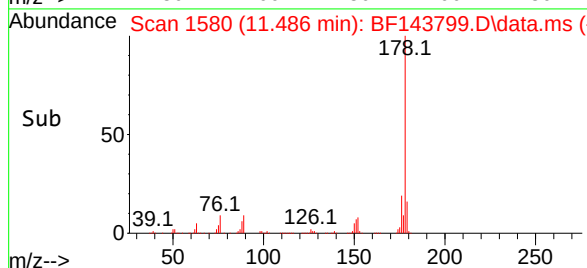
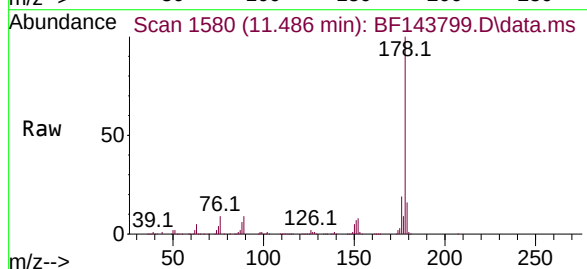
Manual Integrations  
APPROVED

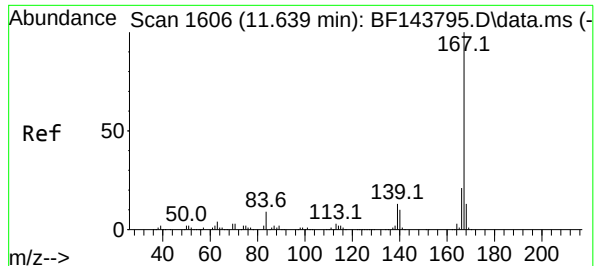
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#72  
Anthracene  
Concen: 43.252 ng  
RT: 11.486 min Scan# 1580  
Delta R.T. -0.006 min  
Lab File: BF143799.D  
Acq: 23 Sep 2025 17:42

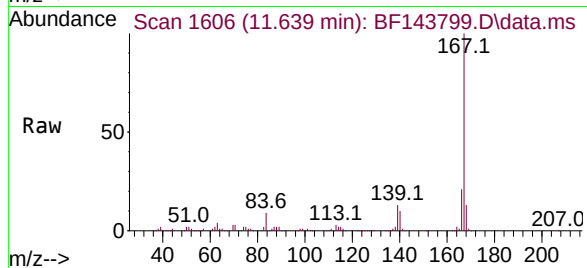
Tgt Ion:178 Resp: 674513  
Ion Ratio Lower Upper  
178 100  
176 18.9 15.3 22.9  
179 15.5 12.8 19.2





#73  
Carbazole  
Concen: 44.114 ng  
RT: 11.639 min Scan# 1606  
Delta R.T. -0.006 min  
Lab File: BF143799.D  
Acq: 23 Sep 2025 17:42

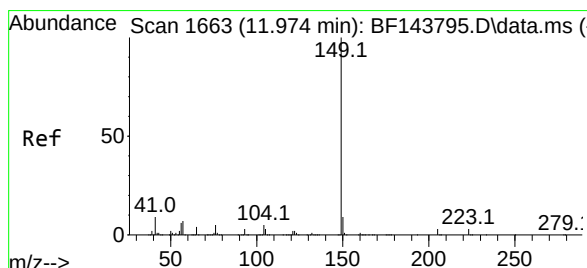
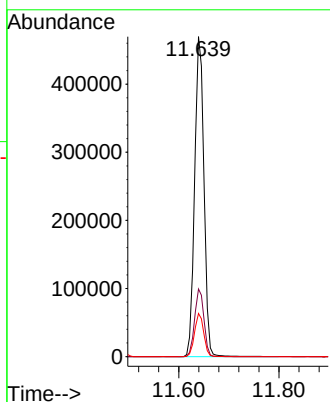
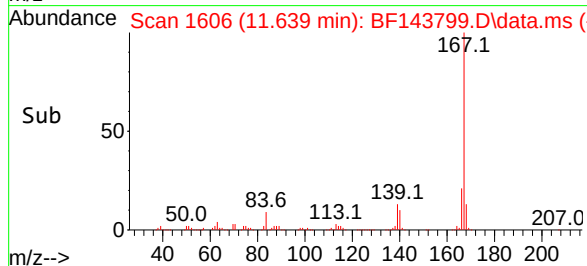
Instrument :  
BNA\_F  
ClientSampleId :  
ICVBF092325



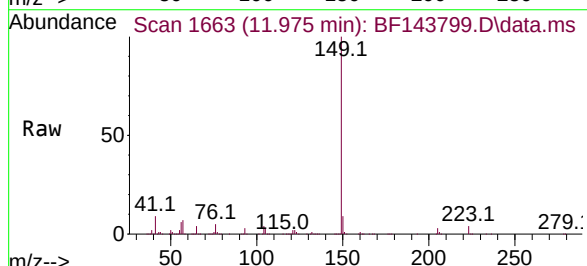
Tgt Ion:167 Resp: 601493  
Ion Ratio Lower Upper  
167 100  
166 21.1 17.0 25.4  
139 13.5 10.6 15.8

Manual Integrations  
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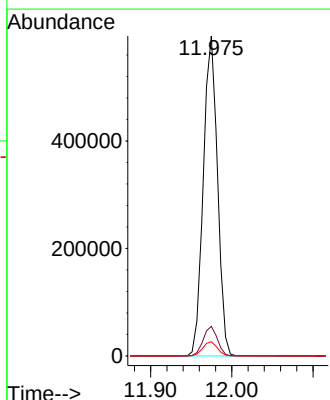
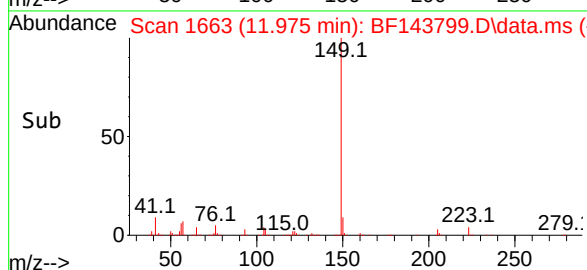
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025

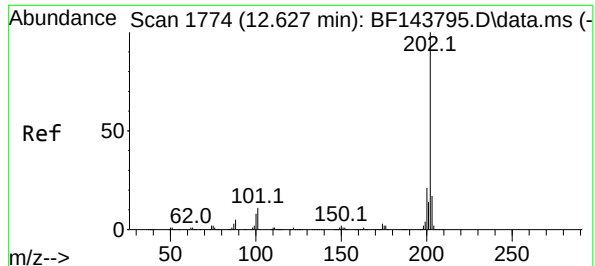


#74  
Di-n-butylphthalate  
Concen: 46.182 ng  
RT: 11.975 min Scan# 1663  
Delta R.T. 0.000 min  
Lab File: BF143799.D  
Acq: 23 Sep 2025 17:42



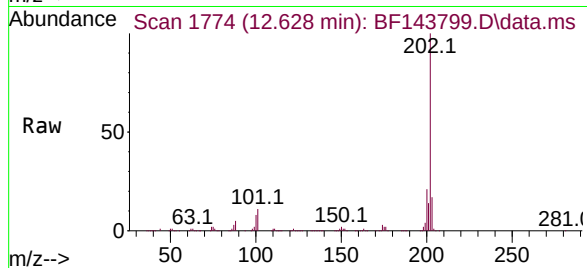
Tgt Ion:149 Resp: 724195  
Ion Ratio Lower Upper  
149 100  
150 9.2 7.3 10.9  
104 4.5 3.6 5.4





#75  
Fluoranthene  
Concen: 46.027 ng  
RT: 12.628 min Scan# 1774  
Delta R.T. 0.000 min  
Lab File: BF143799.D  
Acq: 23 Sep 2025 17:42

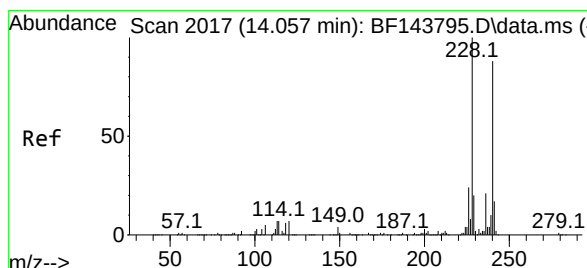
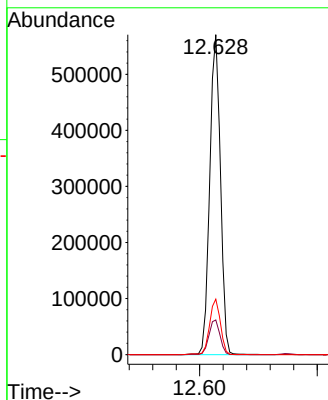
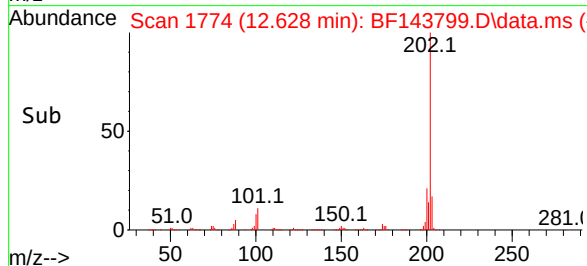
Instrument :  
BNA\_F  
ClientSampleId :  
ICVBF092325



Tgt Ion:202 Resp: 719722  
Ion Ratio Lower Upper  
202 100  
101 10.8 0.0 31.1  
203 17.3 0.0 37.4

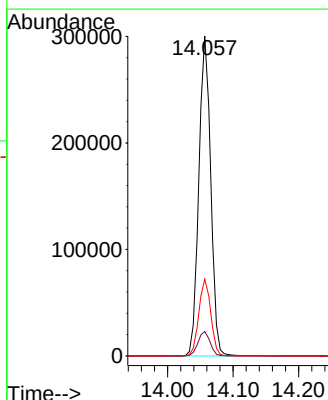
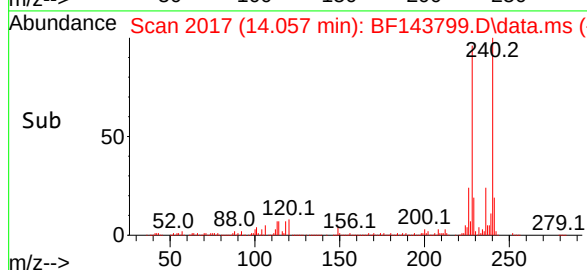
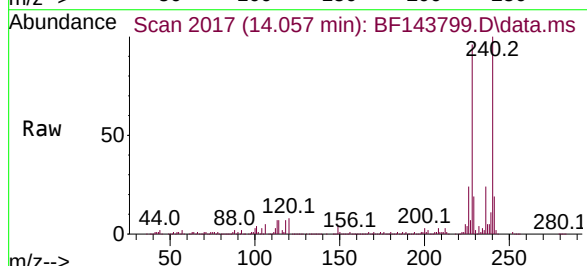
Manual Integrations  
APPROVED

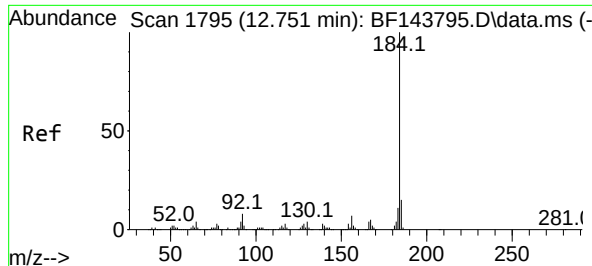
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.057 min Scan# 2017  
Delta R.T. -0.006 min  
Lab File: BF143799.D  
Acq: 23 Sep 2025 17:42

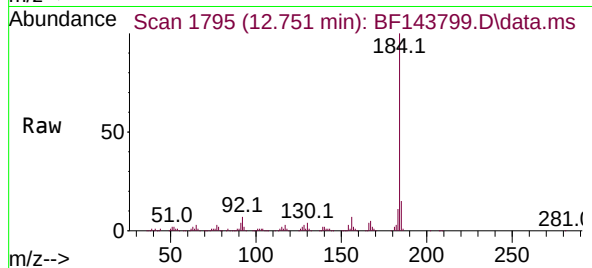
Tgt Ion:240 Resp: 375572  
Ion Ratio Lower Upper  
240 100  
120 7.6 6.2 9.4  
236 24.0 19.4 29.2





#77  
Benzidine  
Concen: 40.236 ng  
RT: 12.751 min Scan# 1795  
Delta R.T. 0.000 min  
Lab File: BF143799.D  
Acq: 23 Sep 2025 17:42

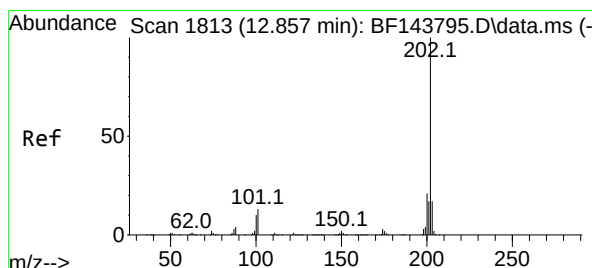
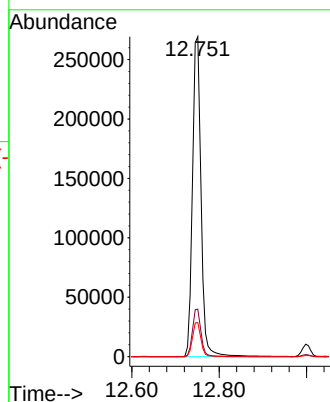
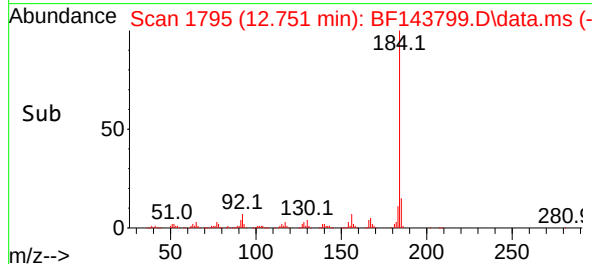
Instrument :  
BNA\_F  
ClientSampleId :  
ICVBF092325



Tgt Ion:184 Resp: 368236  
Ion Ratio Lower Upper  
184 100  
185 14.8 11.6 17.4  
183 10.6 8.6 13.0

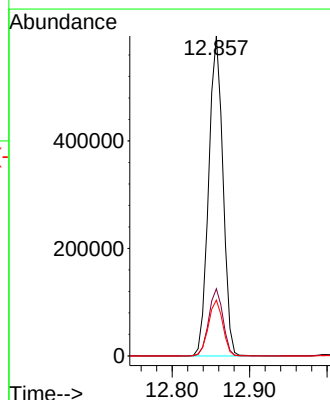
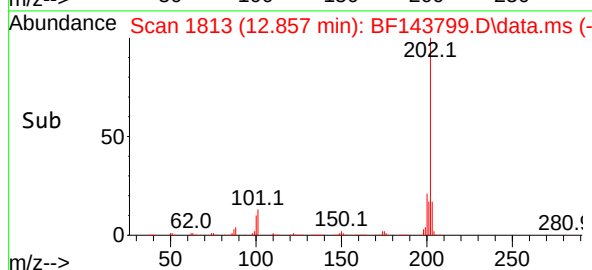
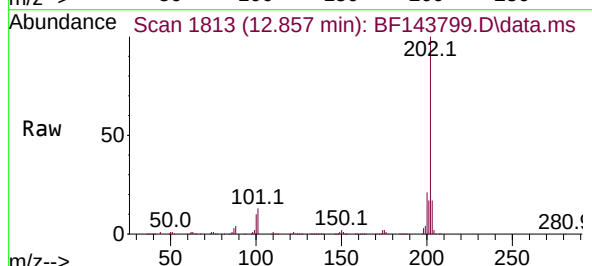
Manual Integrations  
APPROVED

Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025

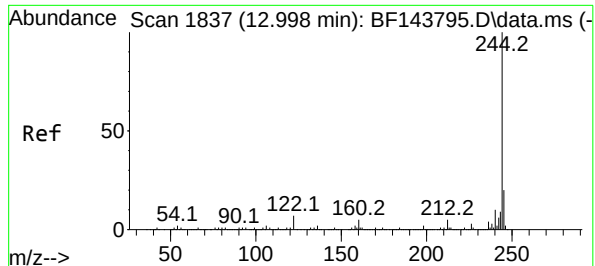


#78  
Pyrene  
Concen: 41.117 ng  
RT: 12.857 min Scan# 1813  
Delta R.T. 0.000 min  
Lab File: BF143799.D  
Acq: 23 Sep 2025 17:42

Tgt Ion:202 Resp: 759210  
Ion Ratio Lower Upper  
202 100  
200 21.0 17.0 25.4  
203 17.4 13.9 20.9

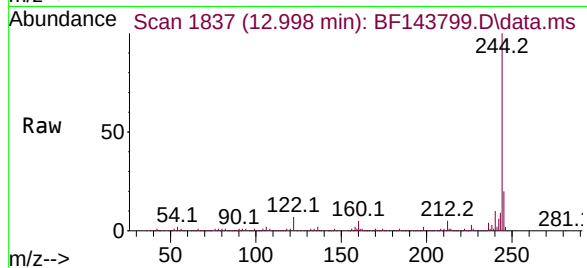






#79  
Terphenyl-d14  
Concen: 80.752 ng  
RT: 12.998 min Scan# 1837  
Delta R.T. -0.006 min  
Lab File: BF143799.D  
Acq: 23 Sep 2025 17:42

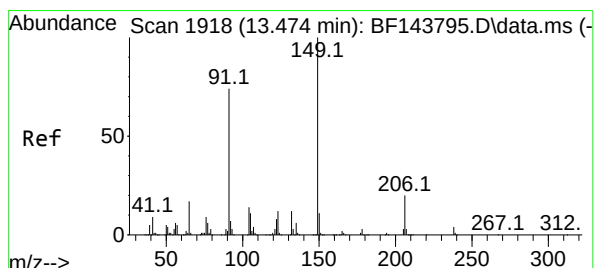
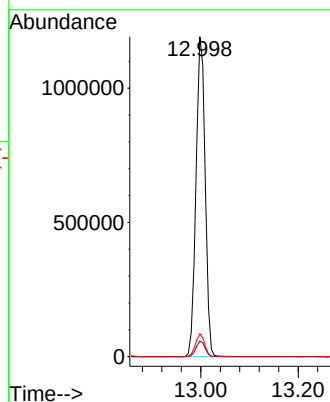
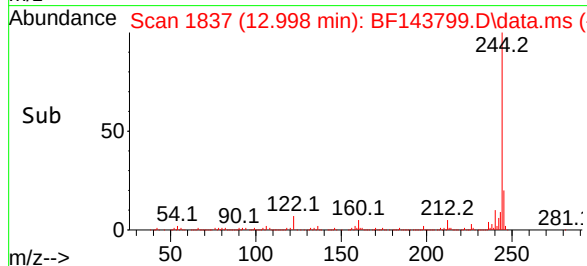
Instrument :  
BNA\_F  
ClientSampleId :  
ICVBF092325



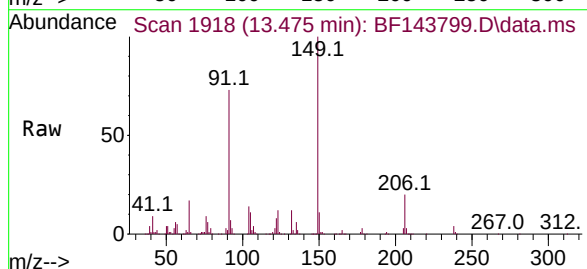
Tgt Ion:244 Resp: 1544756  
Ion Ratio Lower Upper  
244 100  
212 4.9 3.9 5.9  
122 7.1 5.6 8.4

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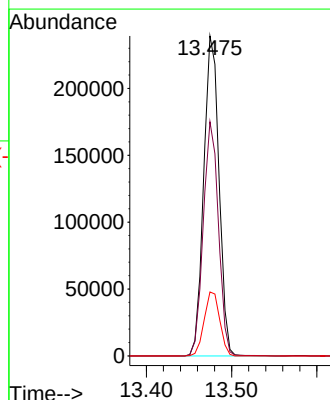
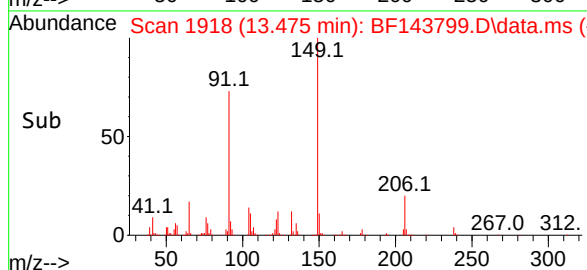
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025

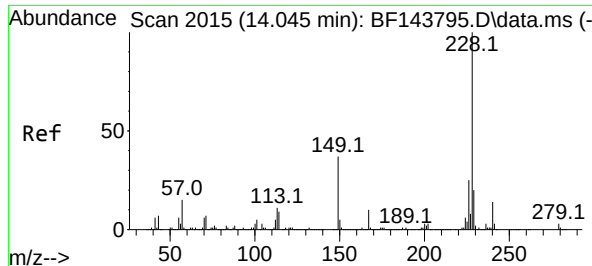


#80  
Butylbenzylphthalate  
Concen: 46.674 ng  
RT: 13.475 min Scan# 1918  
Delta R.T. -0.006 min  
Lab File: BF143799.D  
Acq: 23 Sep 2025 17:42



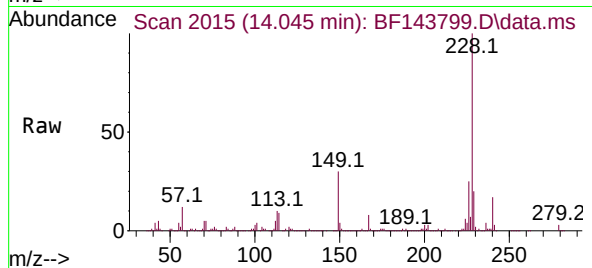
Tgt Ion:149 Resp: 298166  
Ion Ratio Lower Upper  
149 100  
91 73.2 59.5 89.3  
206 20.0 16.1 24.1





#81  
Benzo(a)anthracene  
Concen: 41.296 ng  
RT: 14.045 min Scan# 2015  
Delta R.T. -0.006 min  
Lab File: BF143799.D  
Acq: 23 Sep 2025 17:42

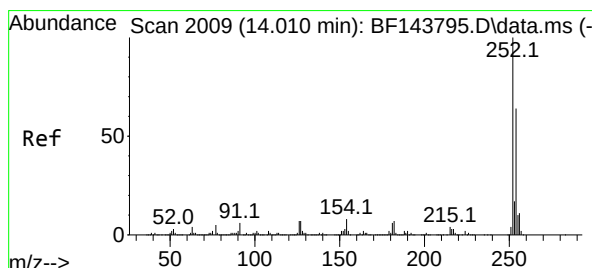
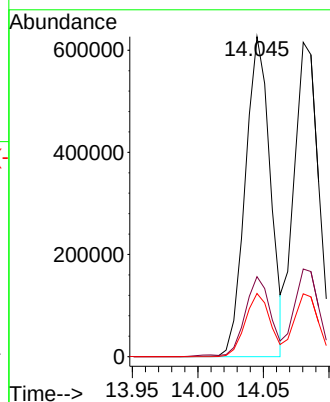
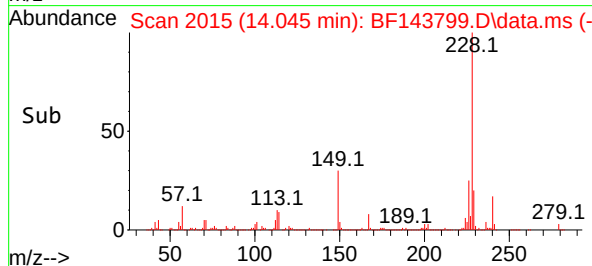
Instrument :  
BNA\_F  
ClientSampleId :  
ICVBF092325



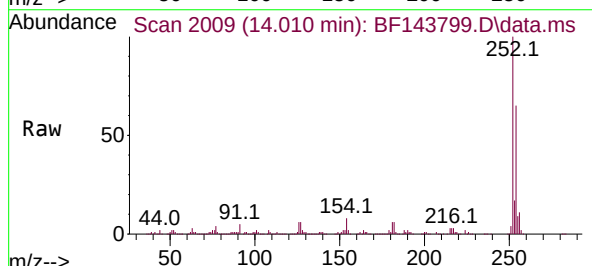
Tgt Ion:228 Resp: 833201  
Ion Ratio Lower Upper  
228 100  
226 25.0 20.2 30.2  
229 19.7 16.1 24.1

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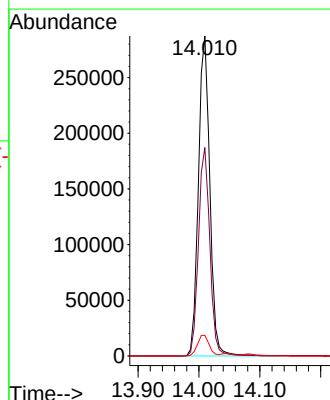
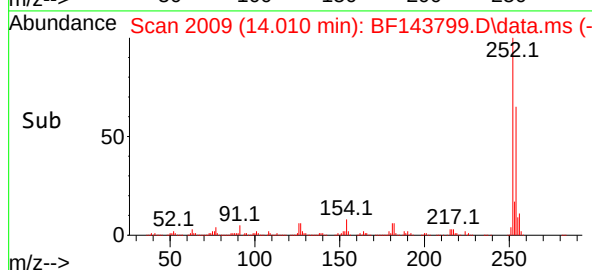
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025

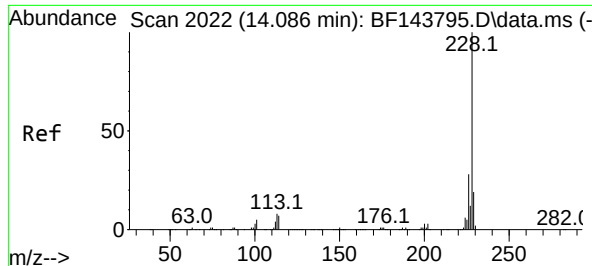


#82  
3,3'-Dichlorobenzidine  
Concen: 42.723 ng  
RT: 14.010 min Scan# 2009  
Delta R.T. 0.000 min  
Lab File: BF143799.D  
Acq: 23 Sep 2025 17:42



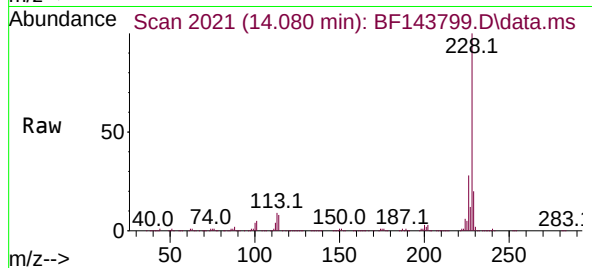
Tgt Ion:252 Resp: 373433  
Ion Ratio Lower Upper  
252 100  
254 65.2 51.5 77.3  
126 6.4 5.4 8.2





#83  
Chrysene  
Concen: 43.791 ng  
RT: 14.080 min Scan# 2013  
Delta R.T. -0.006 min  
Lab File: BF143799.D  
Acq: 23 Sep 2025 17:42

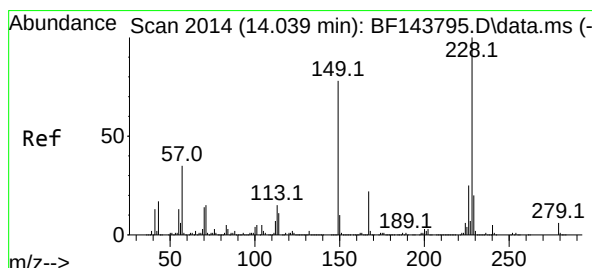
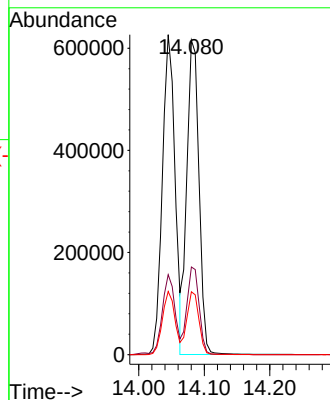
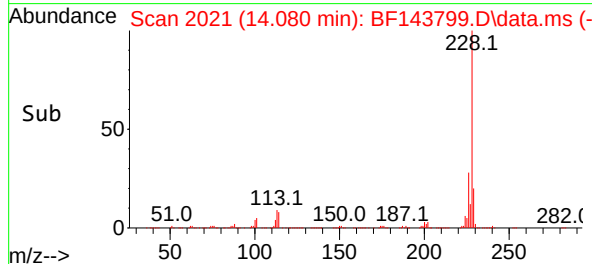
Instrument :  
BNA\_F  
ClientSampleId :  
ICVBF092325



Tgt Ion:228 Resp: 799482  
Ion Ratio Lower Upper  
228 100  
226 27.9 22.6 33.8  
229 20.0 15.6 23.4

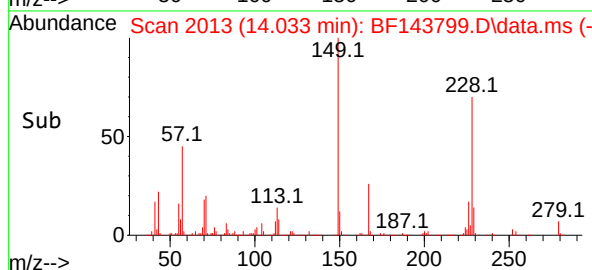
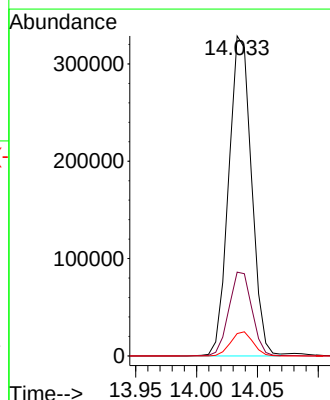
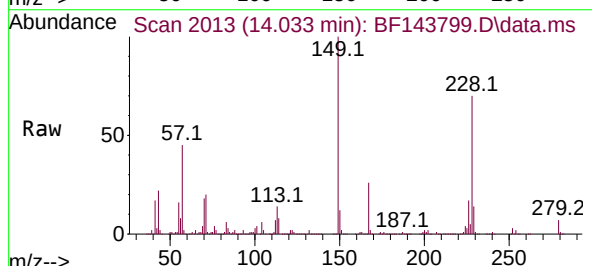
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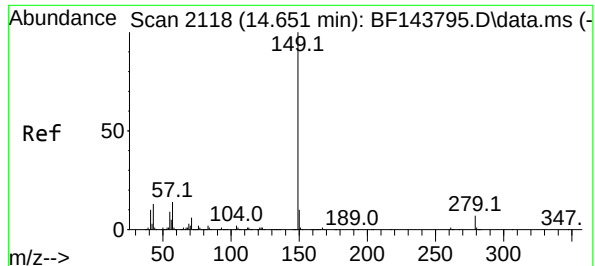
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#84  
Bis(2-ethylhexyl)phthalate  
Concen: 45.704 ng  
RT: 14.033 min Scan# 2013  
Delta R.T. -0.006 min  
Lab File: BF143799.D  
Acq: 23 Sep 2025 17:42

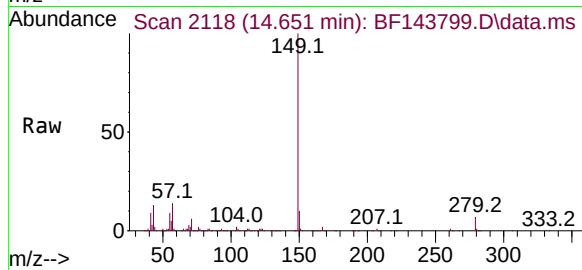
Tgt Ion:149 Resp: 427966  
Ion Ratio Lower Upper  
149 100  
167 26.2 22.2 33.2  
279 7.0 6.0 9.0





#85  
Di-n-octyl phthalate  
Concen: 44.512 ng  
RT: 14.651 min Scan# 2118  
Delta R.T. -0.006 min  
Lab File: BF143799.D  
Acq: 23 Sep 2025 17:42

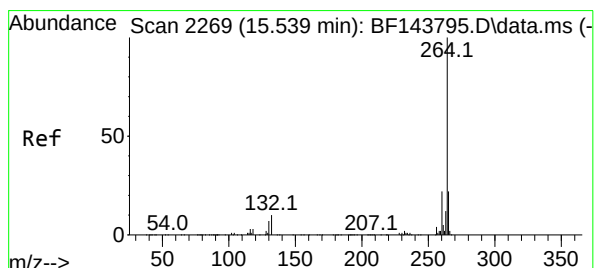
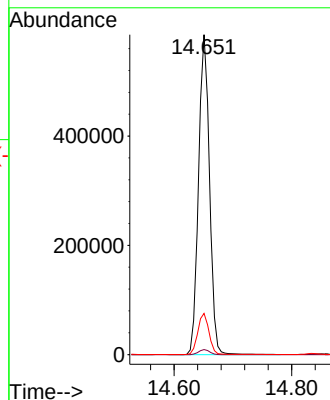
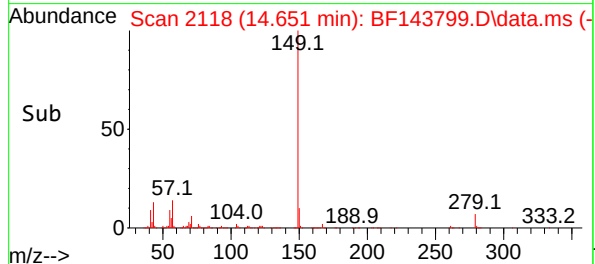
Instrument :  
BNA\_F  
ClientSampleId :  
ICVBF092325



Tgt Ion:149 Resp: 756048  
Ion Ratio Lower Upper  
149 100  
167 1.5 1.1 1.7  
43 13.1 10.7 16.1

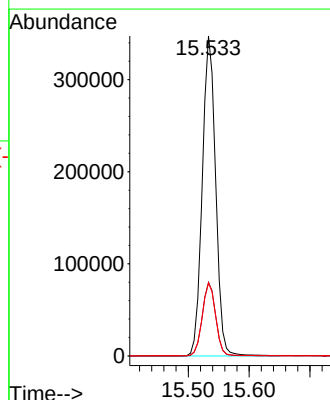
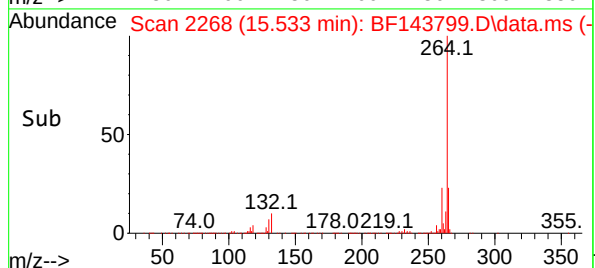
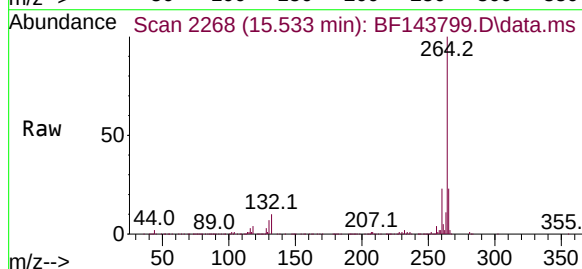
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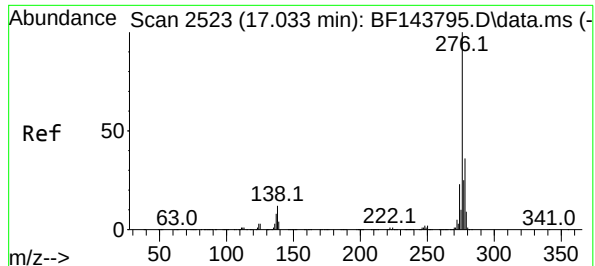
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.533 min Scan# 2268  
Delta R.T. -0.006 min  
Lab File: BF143799.D  
Acq: 23 Sep 2025 17:42

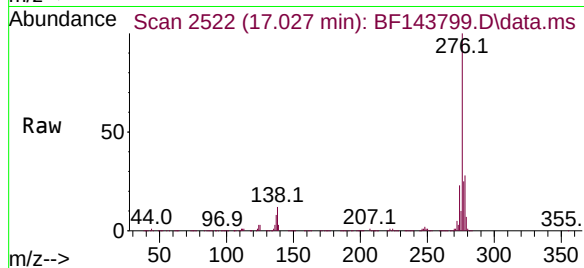
Tgt Ion:264 Resp: 528363  
Ion Ratio Lower Upper  
264 100  
260 23.0 17.9 26.9  
265 22.8 17.7 26.5





#87  
Indeno(1,2,3-cd)pyrene  
Concen: 43.111 ng  
RT: 17.027 min Scan# 2194  
Delta R.T. -0.017 min  
Lab File: BF143799.D  
Acq: 23 Sep 2025 17:42

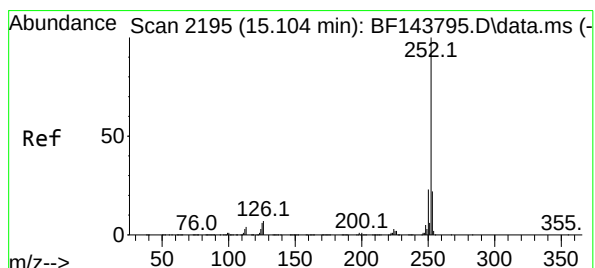
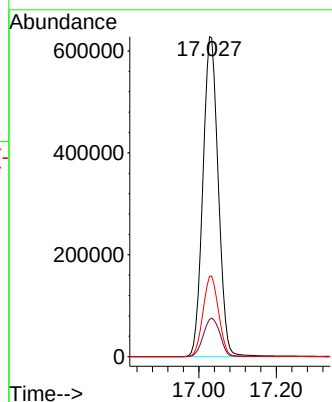
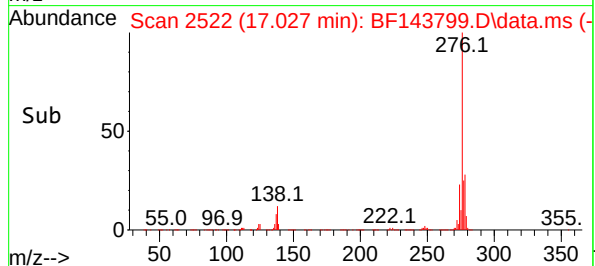
Instrument :  
BNA\_F  
ClientSampleId :  
ICVBF092325



Tgt Ion:276 Resp: 172826  
Ion Ratio Lower Upper  
276 100  
138 13.0 10.6 15.8  
277 25.6 20.7 31.1

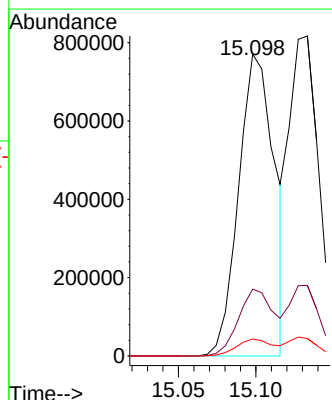
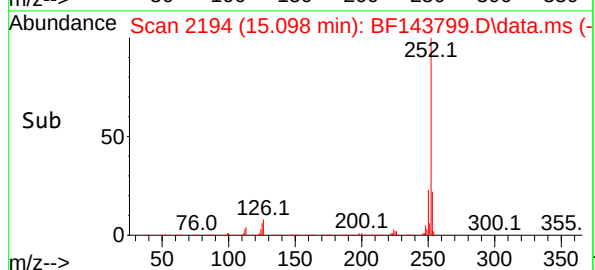
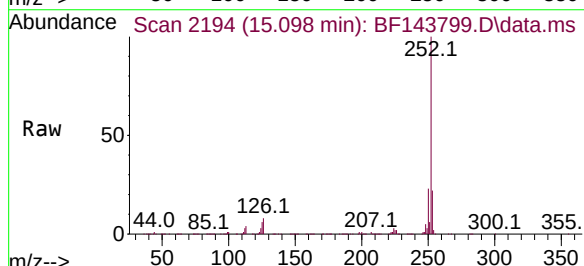
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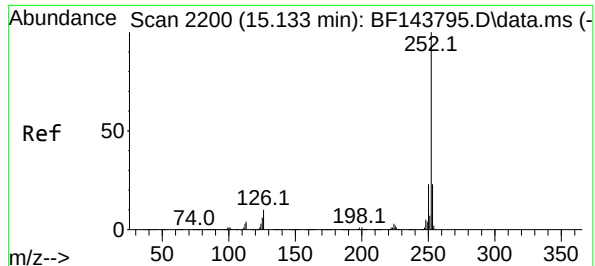
Reviewed By :Rahul Chavli 09/24/2025  
Supervised By :Jagrut Upadhyay 09/24/2025



#88  
Benzo(b)fluoranthene  
Concen: 45.894 ng  
RT: 15.098 min Scan# 2194  
Delta R.T. -0.006 min  
Lab File: BF143799.D  
Acq: 23 Sep 2025 17:42

Tgt Ion:252 Resp: 1234859  
Ion Ratio Lower Upper  
252 100  
253 22.1 17.8 26.8  
125 5.6 4.4 6.6





#89

Benzo(k)fluoranthene

Concen: 40.882 ng

RT: 15.133 min Scan# 2200

Delta R.T. -0.006 min

Lab File: BF143799.D

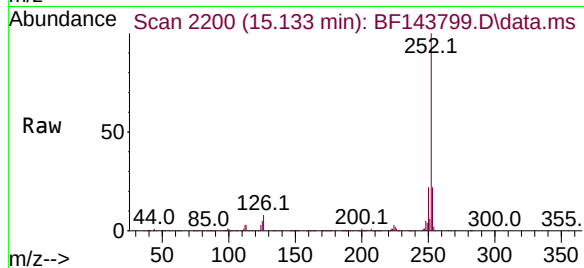
Acq: 23 Sep 2025 17:42

Instrument :

BNA\_F

ClientSampleId :

ICVBF092325



Tgt Ion:252 Resp: 1105146

Ion Ratio Lower Upper

252 100

253 22.0 17.9 26.9

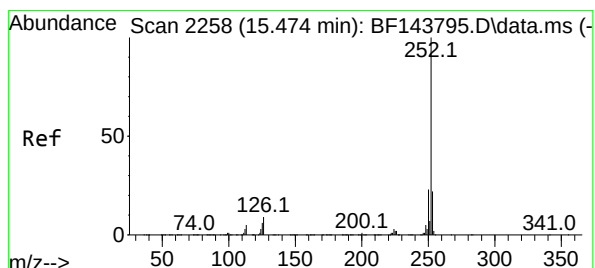
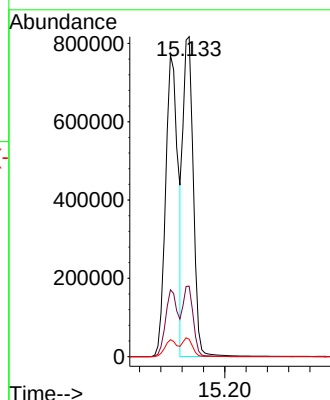
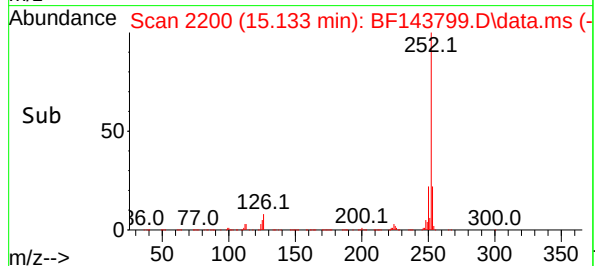
125 5.4 4.6 6.8

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#90

Benzo(a)pyrene

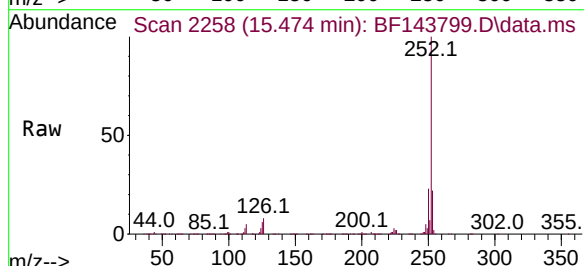
Concen: 43.246 ng

RT: 15.474 min Scan# 2258

Delta R.T. -0.006 min

Lab File: BF143799.D

Acq: 23 Sep 2025 17:42



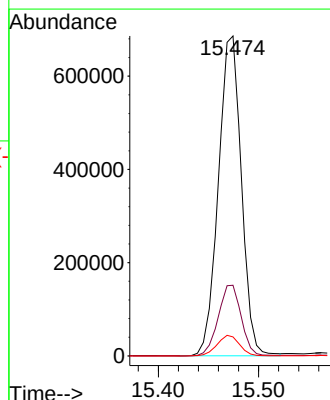
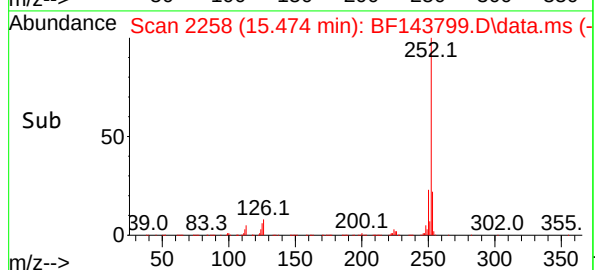
Tgt Ion:252 Resp: 1093771

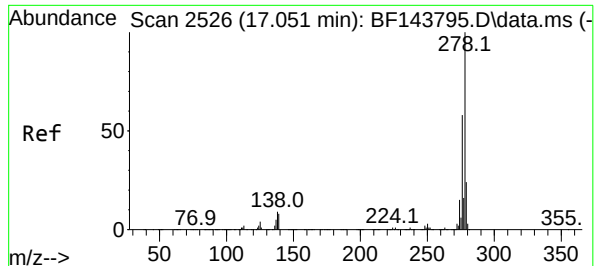
Ion Ratio Lower Upper

252 100

253 22.1 17.6 26.4

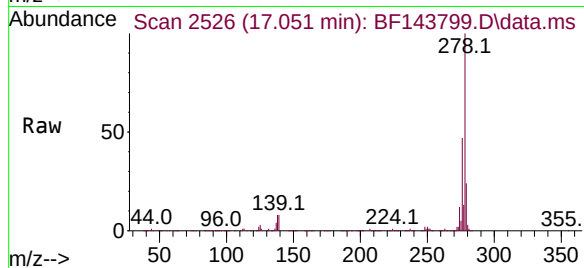
125 6.0 5.0 7.4





#91  
Dibenzo(a,h)anthracene  
Concen: 43.395 ng  
RT: 17.051 min Scan# 2519  
Delta R.T. -0.017 min  
Lab File: BF143799.D  
Acq: 23 Sep 2025 17:42

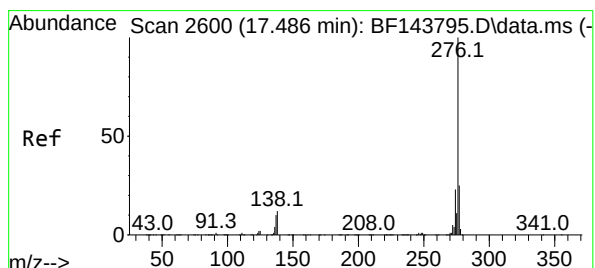
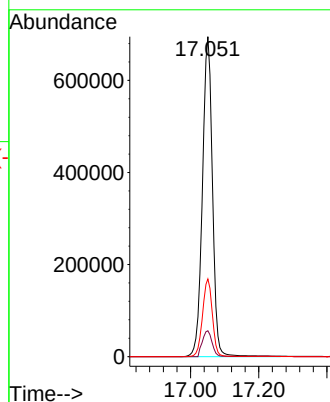
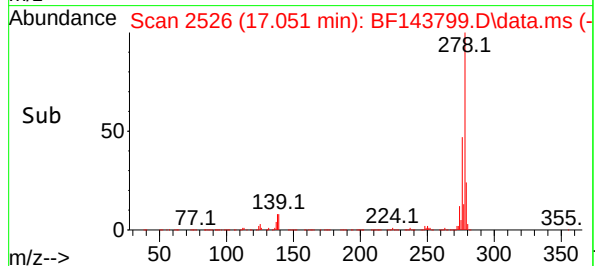
Instrument :  
BNA\_F  
ClientSampleId :  
ICVBF092325



Tgt Ion:278 Resp: 142288  
Ion Ratio Lower Upper  
278 100  
139 8.1 6.7 10.1  
279 24.3 19.3 28.9

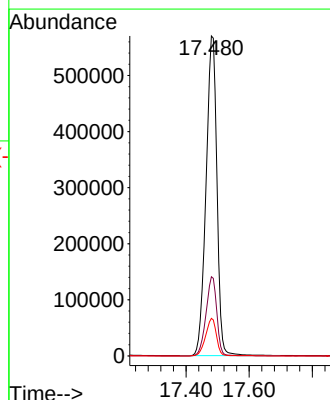
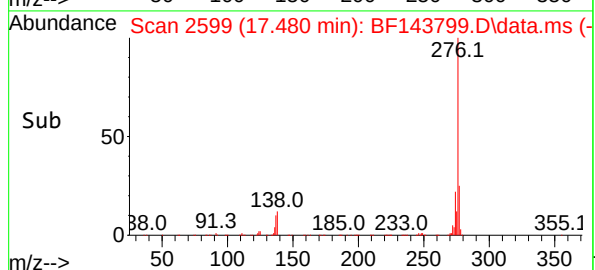
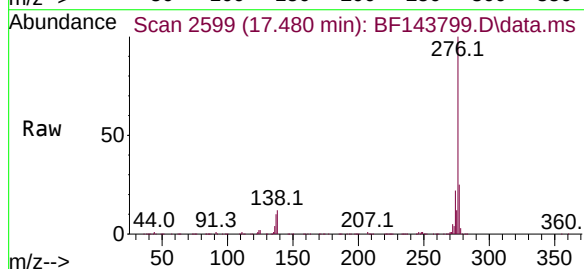
Manual Integrations  
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#92  
Benzo(g,h,i)perylene  
Concen: 43.247 ng  
RT: 17.480 min Scan# 2599  
Delta R.T. -0.023 min  
Lab File: BF143799.D  
Acq: 23 Sep 2025 17:42

Tgt Ion:276 Resp: 1366956  
Ion Ratio Lower Upper  
276 100  
277 24.7 19.6 29.4  
138 11.7 9.2 13.8



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF092325\  
 Data File : BF143799.D  
 Acq On : 23 Sep 2025 17:42  
 Operator : RC/JU  
 Sample : SSTDICV040  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 ICVBF092325

Quant Time: Sep 23 18:09:57 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF092325.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Sep 23 17:50:26 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                 | 0.589 | 0.643 | -9.2   | 97    | 0.00     |
| 3    | Pyridine                    | 1.590 | 1.711 | -7.6   | 96    | 0.00     |
| 4    | n-Nitrosodimethylamine      | 0.797 | 0.846 | -6.1   | 96    | -0.02    |
| 5 S  | 2-Fluorophenol              | 1.231 | 1.345 | -9.3   | 98    | 0.00     |
| 6    | Aniline                     | 2.064 | 2.147 | -4.0   | 96    | 0.00     |
| 7 S  | Phenol-d6                   | 1.422 | 1.500 | -5.5   | 95    | 0.00     |
| 8    | 2-Chlorophenol              | 1.260 | 1.338 | -6.2   | 97    | 0.00     |
| 9    | Benzaldehyde                | 1.246 | 1.453 | -16.6  | 95    | 0.00     |
| 10 C | Phenol                      | 1.653 | 1.734 | -4.9   | 96    | -0.01    |
| 11   | bis(2-Chloroethyl)ether     | 1.296 | 1.357 | -4.7   | 96    | 0.00     |
| 12   | 1,3-Dichlorobenzene         | 1.463 | 1.546 | -5.7   | 97    | 0.00     |
| 13 C | 1,4-Dichlorobenzene         | 1.460 | 1.528 | -4.7   | 96    | 0.00     |
| 14   | 1,2-Dichlorobenzene         | 1.383 | 1.443 | -4.3   | 96    | 0.00     |
| 15   | Benzyl Alcohol              | 1.028 | 1.093 | -6.3   | 97    | 0.00     |
| 16   | 2,2'-oxybis(1-Chloropropane | 3.073 | 3.217 | -4.7   | 96    | 0.00     |
| 17   | 2-Methylphenol              | 0.976 | 1.032 | -5.7   | 97    | 0.00     |
| 18   | Hexachloroethane            | 0.514 | 0.550 | -7.0   | 98    | 0.00     |
| 19 P | n-Nitroso-di-n-propylamine  | 0.915 | 0.910 | 0.5    | 96    | -0.01    |
| 20   | 3+4-Methylphenols           | 1.188 | 1.296 | -9.1   | 98    | 0.00     |
| 21 I | Naphthalene-d8              | 1.000 | 1.000 | 0.0    | 96    | 0.00     |
| 22   | Acetophenone                | 0.439 | 0.456 | -3.9   | 95    | 0.00     |
| 23 S | Nitrobenzene-d5             | 0.327 | 0.361 | -10.4  | 98    | 0.00     |
| 24   | Nitrobenzene                | 0.362 | 0.395 | -9.1   | 98    | -0.01    |
| 25   | Isophorone                  | 0.637 | 0.665 | -4.4   | 95    | 0.00     |
| 26 C | 2-Nitrophenol               | 0.132 | 0.163 | -23.5# | 106   | 0.00     |
| 27   | 2,4-Dimethylphenol          | 0.285 | 0.304 | -6.7   | 96    | 0.00     |
| 28   | bis(2-Chloroethoxy)methane  | 0.414 | 0.429 | -3.6   | 94    | 0.00     |
| 29 C | 2,4-Dichlorophenol          | 0.280 | 0.300 | -7.1   | 97    | 0.00     |
| 30   | 1,2,4-Trichlorobenzene      | 0.291 | 0.308 | -5.8   | 96    | 0.00     |
| 31   | Naphthalene                 | 0.957 | 1.006 | -5.1   | 96    | 0.00     |
| 32   | Benzoic acid                | 0.137 | 0.151 | -10.2  | 103   | -0.03    |
| 33   | 4-Chloroaniline             | 0.336 | 0.353 | -5.1   | 96    | 0.00     |
| 34 C | Hexachlorobutadiene         | 0.217 | 0.230 | -6.0   | 95    | 0.00     |
| 35   | Caprolactam                 | 0.072 | 0.079 | -9.7   | 101   | -0.02    |
| 36 C | 4-Chloro-3-methylphenol     | 0.263 | 0.279 | -6.1   | 97    | 0.00     |
| 37   | 2-Methylnaphthalene         | 0.611 | 0.636 | -4.1   | 96    | 0.00     |
| 38   | 1-Methylnaphthalene         | 0.584 | 0.613 | -5.0   | 96    | 0.00     |
| 39 I | Acenaphthene-d10            | 1.000 | 1.000 | 0.0    | 98    | 0.00     |
| 40   | 1,2,4,5-Tetrachlorobenzene  | 0.604 | 0.634 | -5.0   | 99    | 0.00     |
| 41 P | Hexachlorocyclopentadiene   | 0.383 | 0.419 | -9.4   | 98    | 0.00     |
| 42 S | 2,4,6-Tribromophenol        | 0.296 | 0.341 | -15.2  | 102   | 0.00     |
| 43 C | 2,4,6-Trichlorophenol       | 0.378 | 0.425 | -12.4  | 99    | 0.00     |
| 44   | 2,4,5-Trichlorophenol       | 0.395 | 0.418 | -5.8   | 97    | 0.00     |
| 45 S | 2-Fluorobiphenyl            | 1.282 | 1.351 | -5.4   | 98    | 0.00     |
| 46   | 1,1'-Biphenyl               | 1.448 | 1.493 | -3.1   | 98    | 0.00     |
| 47   | 2-Chloronaphthalene         | 1.165 | 1.198 | -2.8   | 96    | 0.00     |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF092325\  
 Data File : BF143799.D  
 Acq On : 23 Sep 2025 17:42  
 Operator : RC/JU  
 Sample : SSTDICV040  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 ICVBF092325

Quant Time: Sep 23 18:09:57 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF092325.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Sep 23 17:50:26 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) |
|------|----------------------------|-------|-------|--------|-------|----------|
| 48   | 2-Nitroaniline             | 0.352 | 0.423 | -20.2  | 104   | 0.00     |
| 49   | Acenaphthylene             | 1.604 | 1.696 | -5.7   | 98    | 0.00     |
| 50   | Dimethylphthalate          | 1.219 | 1.299 | -6.6   | 99    | 0.00     |
| 51   | 2,6-Dinitrotoluene         | 0.200 | 0.242 | -21.0  | 104   | 0.00     |
| 52 C | Acenaphthene               | 1.056 | 1.105 | -4.6   | 97    | 0.00     |
| 53   | 3-Nitroaniline             | 0.243 | 0.289 | -18.9  | 100   | 0.00     |
| 54 P | 2,4-Dinitrophenol          | 0.064 | 0.074 | -15.6  | 115   | 0.00     |
| 55   | Dibenzofuran               | 1.493 | 1.577 | -5.6   | 99    | 0.00     |
| 56 P | 4-Nitrophenol              | 0.196 | 0.224 | -14.3  | 106   | 0.00     |
| 57   | 2,4-Dinitrotoluene         | 0.261 | 0.330 | -26.4# | 105   | 0.00     |
| 58   | Fluorene                   | 1.110 | 1.169 | -5.3   | 100   | 0.00     |
| 59   | 2,3,4,6-Tetrachlorophenol  | 0.339 | 0.390 | -15.0  | 102   | 0.00     |
| 60   | Diethylphthalate           | 1.141 | 1.232 | -8.0   | 99    | 0.00     |
| 61   | 4-Chlorophenyl-phenylether | 0.566 | 0.597 | -5.5   | 99    | 0.00     |
| 62   | 4-Nitroaniline             | 0.228 | 0.274 | -20.2  | 101   | -0.01    |
| 63   | Azobenzene                 | 1.203 | 1.286 | -6.9   | 98    | 0.00     |
| 64 I | Phenanthrene-d10           | 1.000 | 1.000 | 0.0    | 99    | 0.00     |
| 65   | 4,6-Dinitro-2-methylphenol | 0.067 | 0.082 | -22.4  | 117   | 0.00     |
| 66 c | n-Nitrosodiphenylamine     | 0.658 | 0.682 | -3.6   | 99    | 0.00     |
| 67   | 4-Bromophenyl-phenylether  | 0.341 | 0.365 | -7.0   | 101   | 0.00     |
| 68   | Hexachlorobenzene          | 0.470 | 0.501 | -6.6   | 101   | 0.00     |
| 69   | Atrazine                   | 0.190 | 0.215 | -13.2  | 101   | 0.00     |
| 70 C | Pentachlorophenol          | 0.234 | 0.271 | -15.8  | 105   | 0.00     |
| 71   | Phenanthrene               | 1.027 | 1.086 | -5.7   | 100   | 0.00     |
| 72   | Anthracene                 | 1.030 | 1.114 | -8.2   | 102   | 0.00     |
| 73   | Carbazole                  | 0.901 | 0.993 | -10.2  | 101   | 0.00     |
| 74   | Di-n-butylphthalate        | 1.036 | 1.196 | -15.4  | 103   | 0.00     |
| 75 C | Fluoranthene               | 1.033 | 1.188 | -15.0  | 103   | 0.00     |
| 76 I | Chrysene-d12               | 1.000 | 1.000 | 0.0    | 103   | 0.00     |
| 77   | Benzydine                  | 0.487 | 0.490 | -0.6   | 98    | 0.00     |
| 78   | Pyrene                     | 0.983 | 1.011 | -2.8   | 103   | 0.00     |
| 79 S | Terphenyl-d14              | 0.983 | 1.028 | -4.6   | 103   | 0.00     |
| 80   | Butylbenzylphthalate       | 0.340 | 0.397 | -16.8  | 104   | 0.00     |
| 81   | Benzo(a)anthracene         | 1.074 | 1.109 | -3.3   | 99    | 0.00     |
| 82   | 3,3'-Dichlorobenzidine     | 0.465 | 0.497 | -6.9   | 103   | 0.00     |
| 83   | Chrysene                   | 0.972 | 1.064 | -9.5   | 107   | 0.00     |
| 84   | Bis(2-ethylhexyl)phthalate | 0.499 | 0.570 | -14.2  | 105   | 0.00     |
| 85 c | Di-n-octyl phthalate       | 0.905 | 1.007 | -11.3  | 102   | 0.00     |
| 86 I | Perylene-d12               | 1.000 | 1.000 | 0.0    | 101   | 0.00     |
| 87   | Indeno(1,2,3-cd)pyrene     | 1.517 | 1.635 | -7.8   | 102   | -0.02    |
| 88   | Benzo(b)fluoranthene       | 1.018 | 1.169 | -14.8  | 106   | 0.00     |
| 89   | Benzo(k)fluoranthene       | 1.023 | 1.046 | -2.2   | 97    | 0.00     |
| 90 C | Benzo(a)pyrene             | 0.957 | 1.035 | -8.2   | 101   | 0.00     |
| 91   | Dibenzo(a,h)anthracene     | 1.241 | 1.347 | -8.5   | 102   | -0.02    |
| 92   | Benzo(g,h,i)perylene       | 1.196 | 1.294 | -8.2   | 102   | -0.02    |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF092325\  
Data File : BF143799.D  
Acq On : 23 Sep 2025 17:42  
Operator : RC/JU  
Sample : SSTDICV040  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
ICVBF092325

Quant Time: Sep 23 18:09:57 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF092325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Sep 23 17:50:26 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) |
|----------|-------|------|------|-------|----------|
|----------|-------|------|------|-------|----------|

(#) = Out of Range

SPCC's out = 0 CCC's out = 1

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF092325\  
 Data File : BF143799.D  
 Acq On : 23 Sep 2025 17:42  
 Operator : RC/JU  
 Sample : SSTDICV040  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 ICVBF092325

Quant Time: Sep 23 18:09:57 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF092325.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Sep 23 17:50:26 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      | 20.000 | 20.000 | 0.0   | 96    | 0.00     |
| 2    | 1,4-Dioxane                 | 40.000 | 43.647 | -9.1  | 97    | 0.00     |
| 3    | Pyridine                    | 40.000 | 43.022 | -7.6  | 96    | 0.00     |
| 4    | n-Nitrosodimethylamine      | 40.000 | 42.441 | -6.1  | 96    | -0.02    |
| 5 S  | 2-Fluorophenol              | 80.000 | 86.573 | -8.2  | 98    | 0.00     |
| 6    | Aniline                     | 40.000 | 41.592 | -4.0  | 96    | 0.00     |
| 7 S  | Phenol-d6                   | 80.000 | 81.847 | -2.3  | 95    | 0.00     |
| 8    | 2-Chlorophenol              | 40.000 | 42.456 | -6.1  | 97    | 0.00     |
| 9    | Benzaldehyde                | 40.000 | 46.667 | -16.7 | 95    | 0.00     |
| 10 C | Phenol                      | 40.000 | 41.956 | -4.9  | 96    | -0.01    |
| 11   | bis(2-Chloroethyl)ether     | 40.000 | 41.891 | -4.7  | 96    | 0.00     |
| 12   | 1,3-Dichlorobenzene         | 40.000 | 42.271 | -5.7  | 97    | 0.00     |
| 13 C | 1,4-Dichlorobenzene         | 40.000 | 41.859 | -4.6  | 96    | 0.00     |
| 14   | 1,2-Dichlorobenzene         | 40.000 | 41.736 | -4.3  | 96    | 0.00     |
| 15   | Benzyl Alcohol              | 40.000 | 42.558 | -6.4  | 97    | 0.00     |
| 16   | 2,2'-oxybis(1-Chloropropane | 40.000 | 41.868 | -4.7  | 96    | 0.00     |
| 17   | 2-Methylphenol              | 40.000 | 42.304 | -5.8  | 97    | 0.00     |
| 18   | Hexachloroethane            | 40.000 | 42.878 | -7.2  | 98    | 0.00     |
| 19 P | n-Nitroso-di-n-propylamine  | 40.000 | 39.810 | 0.5   | 96    | -0.01    |
| 20   | 3+4-Methylphenols           | 40.000 | 43.619 | -9.0  | 98    | 0.00     |
| 21 I | Naphthalene-d8              | 20.000 | 20.000 | 0.0   | 96    | 0.00     |
| 22   | Acetophenone                | 40.000 | 41.524 | -3.8  | 95    | 0.00     |
| 23 S | Nitrobenzene-d5             | 80.000 | 90.799 | -13.5 | 98    | 0.00     |
| 24   | Nitrobenzene                | 40.000 | 43.582 | -9.0  | 98    | -0.01    |
| 25   | Isophorone                  | 40.000 | 41.778 | -4.4  | 95    | 0.00     |
| 26 C | 2-Nitrophenol               | 40.000 | 44.135 | -10.3 | 106   | 0.00     |
| 27   | 2,4-Dimethylphenol          | 40.000 | 42.725 | -6.8  | 96    | 0.00     |
| 28   | bis(2-Chloroethoxy)methane  | 40.000 | 41.459 | -3.6  | 94    | 0.00     |
| 29 C | 2,4-Dichlorophenol          | 40.000 | 42.921 | -7.3  | 97    | 0.00     |
| 30   | 1,2,4-Trichlorobenzene      | 40.000 | 42.395 | -6.0  | 96    | 0.00     |
| 31   | Naphthalene                 | 40.000 | 42.019 | -5.0  | 96    | 0.00     |
| 32   | Benzoic acid                | 40.000 | 43.922 | -9.8  | 103   | -0.03    |
| 33   | 4-Chloroaniline             | 40.000 | 41.955 | -4.9  | 96    | 0.00     |
| 34 C | Hexachlorobutadiene         | 40.000 | 42.413 | -6.0  | 95    | 0.00     |
| 35   | Caprolactam                 | 40.000 | 44.018 | -10.0 | 101   | -0.02    |
| 36 C | 4-Chloro-3-methylphenol     | 40.000 | 42.485 | -6.2  | 97    | 0.00     |
| 37   | 2-Methylnaphthalene         | 40.000 | 41.689 | -4.2  | 96    | 0.00     |
| 38   | 1-Methylnaphthalene         | 40.000 | 41.968 | -4.9  | 96    | 0.00     |
| 39 I | Acenaphthene-d10            | 20.000 | 20.000 | 0.0   | 98    | 0.00     |
| 40   | 1,2,4,5-Tetrachlorobenzene  | 40.000 | 41.989 | -5.0  | 99    | 0.00     |
| 41 P | Hexachlorocyclopentadiene   | 40.000 | 43.786 | -9.5  | 98    | 0.00     |
| 42 S | 2,4,6-Tribromophenol        | 80.000 | 95.600 | -19.5 | 102   | 0.00     |
| 43 C | 2,4,6-Trichlorophenol       | 40.000 | 45.018 | -12.5 | 99    | 0.00     |
| 44   | 2,4,5-Trichlorophenol       | 40.000 | 42.310 | -5.8  | 97    | 0.00     |
| 45 S | 2-Fluorobiphenyl            | 80.000 | 79.843 | 0.2   | 98    | 0.00     |
| 46   | 1,1'-Biphenyl               | 40.000 | 41.254 | -3.1  | 98    | 0.00     |
| 47   | 2-Chloronaphthalene         | 40.000 | 41.133 | -2.8  | 96    | 0.00     |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF092325\  
 Data File : BF143799.D  
 Acq On : 23 Sep 2025 17:42  
 Operator : RC/JU  
 Sample : SSTDICV040  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 ICVBF092325

Quant Time: Sep 23 18:09:57 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF092325.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Sep 23 17:50:26 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) |
|------|----------------------------|--------|--------|-------|-------|----------|
| 48   | 2-Nitroaniline             | 40.000 | 48.090 | -20.2 | 104   | 0.00     |
| 49   | Acenaphthylene             | 40.000 | 42.279 | -5.7  | 98    | 0.00     |
| 50   | Dimethylphthalate          | 40.000 | 42.624 | -6.6  | 99    | 0.00     |
| 51   | 2,6-Dinitrotoluene         | 40.000 | 48.254 | -20.6 | 104   | 0.00     |
| 52 C | Acenaphthene               | 40.000 | 41.869 | -4.7  | 97    | 0.00     |
| 53   | 3-Nitroaniline             | 40.000 | 47.665 | -19.2 | 100   | 0.00     |
| 54 P | 2,4-Dinitrophenol          | 40.000 | 46.217 | -15.5 | 115   | 0.00     |
| 55   | Dibenzofuran               | 40.000 | 42.251 | -5.6  | 99    | 0.00     |
| 56 P | 4-Nitrophenol              | 40.000 | 45.864 | -14.7 | 106   | 0.00     |
| 57   | 2,4-Dinitrotoluene         | 40.000 | 44.618 | -11.5 | 105   | 0.00     |
| 58   | Fluorene                   | 40.000 | 42.132 | -5.3  | 100   | 0.00     |
| 59   | 2,3,4,6-Tetrachlorophenol  | 40.000 | 46.097 | -15.2 | 102   | 0.00     |
| 60   | Diethylphthalate           | 40.000 | 43.199 | -8.0  | 99    | 0.00     |
| 61   | 4-Chlorophenyl-phenylether | 40.000 | 42.203 | -5.5  | 99    | 0.00     |
| 62   | 4-Nitroaniline             | 40.000 | 47.936 | -19.8 | 101   | -0.01    |
| 63   | Azobenzene                 | 40.000 | 42.769 | -6.9  | 98    | 0.00     |
| 64 I | Phenanthrene-d10           | 20.000 | 20.000 | 0.0   | 99    | 0.00     |
| 65   | 4,6-Dinitro-2-methylphenol | 40.000 | 45.452 | -13.6 | 117   | 0.00     |
| 66 c | n-Nitrosodiphenylamine     | 40.000 | 41.480 | -3.7  | 99    | 0.00     |
| 67   | 4-Bromophenyl-phenylether  | 40.000 | 42.884 | -7.2  | 101   | 0.00     |
| 68   | Hexachlorobenzene          | 40.000 | 42.661 | -6.7  | 101   | 0.00     |
| 69   | Atrazine                   | 40.000 | 45.083 | -12.7 | 101   | 0.00     |
| 70 C | Pentachlorophenol          | 40.000 | 46.307 | -15.8 | 105   | 0.00     |
| 71   | Phenanthrene               | 40.000 | 42.299 | -5.7  | 100   | 0.00     |
| 72   | Anthracene                 | 40.000 | 43.252 | -8.1  | 102   | 0.00     |
| 73   | Carbazole                  | 40.000 | 44.114 | -10.3 | 101   | 0.00     |
| 74   | Di-n-butylphthalate        | 40.000 | 46.182 | -15.5 | 103   | 0.00     |
| 75 C | Fluoranthene               | 40.000 | 46.027 | -15.1 | 103   | 0.00     |
| 76 I | Chrysene-d12               | 20.000 | 20.000 | 0.0   | 103   | 0.00     |
| 77   | Benzydine                  | 40.000 | 40.236 | -0.6  | 98    | 0.00     |
| 78   | Pyrene                     | 40.000 | 41.117 | -2.8  | 103   | 0.00     |
| 79 S | Terphenyl-d14              | 80.000 | 80.752 | -0.9  | 103   | 0.00     |
| 80   | Butylbenzylphthalate       | 40.000 | 46.674 | -16.7 | 104   | 0.00     |
| 81   | Benzo(a)anthracene         | 40.000 | 41.296 | -3.2  | 99    | 0.00     |
| 82   | 3,3'-Dichlorobenzidine     | 40.000 | 42.723 | -6.8  | 103   | 0.00     |
| 83   | Chrysene                   | 40.000 | 43.791 | -9.5  | 107   | 0.00     |
| 84   | Bis(2-ethylhexyl)phthalate | 40.000 | 45.704 | -14.3 | 105   | 0.00     |
| 85 c | Di-n-octyl phthalate       | 40.000 | 44.512 | -11.3 | 102   | 0.00     |
| 86 I | Perylene-d12               | 20.000 | 20.000 | 0.0   | 101   | 0.00     |
| 87   | Indeno(1,2,3-cd)pyrene     | 40.000 | 43.111 | -7.8  | 102   | -0.02    |
| 88   | Benzo(b)fluoranthene       | 40.000 | 45.894 | -14.7 | 106   | 0.00     |
| 89   | Benzo(k)fluoranthene       | 40.000 | 40.882 | -2.2  | 97    | 0.00     |
| 90 C | Benzo(a)pyrene             | 40.000 | 43.246 | -8.1  | 101   | 0.00     |
| 91   | Dibenzo(a,h)anthracene     | 40.000 | 43.395 | -8.5  | 102   | -0.02    |
| 92   | Benzo(g,h,i)perylene       | 40.000 | 43.247 | -8.1  | 102   | -0.02    |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF092325\  
Data File : BF143799.D  
Acq On : 23 Sep 2025 17:42  
Operator : RC/JU  
Sample : SSTDICV040  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
ICVBF092325

Quant Time: Sep 23 18:09:57 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF092325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Sep 23 17:50:26 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) |
|----------|--------|-------|------|-------|----------|
|----------|--------|-------|------|-------|----------|

(#) = Out of Range                      SPCC's out = 0    CCC's out = 0



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

7C

## SEMIVOLATILE CONTINUING CALIBRATION CHECK

|                 |                   |                        |                              |
|-----------------|-------------------|------------------------|------------------------------|
| Lab Name:       | <u>Alliance</u>   | Contract:              | <u>ROYF02</u>                |
| Lab Code:       | <u>ACE</u>        | SDG No.:               | <u>Q3178</u>                 |
| Instrument ID:  | <u>BNA_F</u>      | Calibration Date/Time: | <u>09/25/2025 13:06</u>      |
| Lab File ID:    | <u>BF143802.D</u> | Init. Calib. Date(s):  | <u>09/23/2025 09/23/2025</u> |
| EPA Sample No.: | <u>SSTDCCC040</u> | Init. Calib. Time(s):  | <u>10:28 15:27</u>           |
| GC Column:      | <u>DB-UI</u>      | ID:                    | <u>0.18</u> (mm)             |

| COMPOUND                    | RRF   | RRF040 | MIN RRF | %D    | MAX%D |
|-----------------------------|-------|--------|---------|-------|-------|
| 2-Fluorophenol              | 1.231 | 1.258  |         | 2.2   |       |
| Benzaldehyde                | 1.246 | 1.088  |         | -12.7 |       |
| Phenol-d6                   | 1.422 | 1.376  |         | -3.2  |       |
| Phenol                      | 1.653 | 1.558  |         | -5.7  | 20.0  |
| bis(2-Chloroethyl)ether     | 1.296 | 1.243  |         | -4.1  |       |
| 2-Chlorophenol              | 1.260 | 1.260  |         | 0.0   |       |
| 2-Methylphenol              | 0.976 | 0.913  |         | -6.5  |       |
| 2,2-oxybis(1-Chloropropane) | 3.073 | 2.801  |         | -8.9  |       |
| Acetophenone                | 0.439 | 0.443  |         | 0.9   |       |
| 3+4-Methylphenols           | 1.185 | 1.115  |         | -5.9  |       |
| n-Nitroso-di-n-propylamine  | 0.915 | 0.782  | 0.050   | -14.5 |       |
| Nitrobenzene-d5             | 0.327 | 0.344  |         | 5.2   |       |
| Hexachloroethane            | 0.514 | 0.521  |         | 1.4   |       |
| Nitrobenzene                | 0.362 | 0.378  |         | 4.4   |       |
| Isophorone                  | 0.637 | 0.603  |         | -5.3  |       |
| 2-Nitrophenol               | 0.132 | 0.146  |         | 10.6  | 20.0  |
| 2,4-Dimethylphenol          | 0.285 | 0.277  |         | -2.8  |       |
| bis(2-Chloroethoxy)methane  | 0.414 | 0.395  |         | -4.6  |       |
| 2,4-Dichlorophenol          | 0.280 | 0.281  |         | 0.4   | 20.0  |
| Naphthalene                 | 0.957 | 0.981  |         | 2.5   |       |
| 4-Chloroaniline             | 0.336 | 0.325  |         | -3.3  |       |
| Hexachlorobutadiene         | 0.217 | 0.226  |         | 4.1   | 20.0  |
| Caprolactam                 | 0.072 | 0.066  |         | -8.3  |       |
| 4-Chloro-3-methylphenol     | 0.263 | 0.247  |         | -6.1  | 20.0  |
| 2-Methylnaphthalene         | 0.611 | 0.595  |         | -2.6  |       |
| Hexachlorocyclopentadiene   | 0.383 | 0.408  | 0.050   | 6.5   |       |
| 2,4,6-Trichlorophenol       | 0.378 | 0.418  |         | 10.6  | 20.0  |
| 2-Fluorobiphenyl            | 1.282 | 1.393  |         | 8.7   |       |
| 2,4,5-Trichlorophenol       | 0.395 | 0.403  |         | 2.0   |       |
| 1,1-Biphenyl                | 1.448 | 1.524  |         | 5.2   |       |
| 2-Chloronaphthalene         | 1.165 | 1.233  |         | 5.8   |       |
| 2-Nitroaniline              | 0.352 | 0.387  |         | 9.9   |       |
| Dimethylphthalate           | 1.219 | 1.236  |         | 1.4   |       |
| Acenaphthylene              | 1.604 | 1.679  |         | 4.7   |       |
| 2,6-Dinitrotoluene          | 0.200 | 0.216  |         | 8.0   |       |
| 3-Nitroaniline              | 0.243 | 0.269  |         | 10.7  |       |
| Acenaphthene                | 1.056 | 1.080  |         | 2.3   | 20.0  |
| 2,4-Dinitrophenol           | 0.064 | 0.055  | 0.050   | -14.1 |       |
| 4-Nitrophenol               | 0.196 | 0.194  | 0.050   | -1.0  |       |



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

7C

## SEMIVOLATILE CONTINUING CALIBRATION CHECK

|                 |                   |                        |                              |
|-----------------|-------------------|------------------------|------------------------------|
| Lab Name:       | <u>Alliance</u>   | Contract:              | <u>ROYF02</u>                |
| Lab Code:       | <u>ACE</u>        | SDG No.:               | <u>Q3178</u>                 |
| Instrument ID:  | <u>BNA_F</u>      | Calibration Date/Time: | <u>09/25/2025 13:06</u>      |
| Lab File ID:    | <u>BF143802.D</u> | Init. Calib. Date(s):  | <u>09/23/2025 09/23/2025</u> |
| EPA Sample No.: | <u>SSTDCCC040</u> | Init. Calib. Time(s):  | <u>10:28 15:27</u>           |
| GC Column:      | <u>DB-UI</u>      | ID:                    | <u>0.18</u> (mm)             |

| COMPOUND                   | RRF   | RRF040 | MIN<br>RRF | %D   | MAX%D |
|----------------------------|-------|--------|------------|------|-------|
| Dibenzofuran               | 1.493 | 1.563  |            | 4.7  |       |
| 2,4-Dinitrotoluene         | 0.261 | 0.284  |            | 8.8  |       |
| Diethylphthalate           | 1.141 | 1.135  |            | -0.5 |       |
| 4-Chlorophenyl-phenylether | 0.566 | 0.574  |            | 1.4  |       |
| Fluorene                   | 1.110 | 1.133  |            | 2.1  |       |
| 4-Nitroaniline             | 0.228 | 0.238  |            | 4.4  |       |
| 4,6-Dinitro-2-methylphenol | 0.067 | 0.064  |            | -4.5 |       |
| n-Nitrosodiphenylamine     | 0.658 | 0.695  |            | 5.6  | 20.0  |
| 2,4,6-Tribromophenol       | 0.296 | 0.324  |            | 9.5  |       |
| 4-Bromophenyl-phenylether  | 0.341 | 0.362  |            | 6.2  |       |
| Hexachlorobenzene          | 0.470 | 0.502  |            | 6.8  |       |
| Atrazine                   | 0.190 | 0.199  |            | 4.7  |       |
| Pentachlorophenol          | 0.234 | 0.250  |            | 6.8  | 20.0  |
| Phenanthrene               | 1.027 | 1.090  |            | 6.1  |       |
| Anthracene                 | 1.030 | 1.081  |            | 5.0  |       |
| Carbazole                  | 0.901 | 0.964  |            | 7.0  |       |
| Di-n-butylphthalate        | 1.036 | 1.140  |            | 10.0 |       |
| Fluoranthene               | 1.033 | 1.115  |            | 7.9  | 20.0  |
| Pyrene                     | 0.983 | 1.009  |            | 2.6  |       |
| Terphenyl-d14              | 0.983 | 1.053  |            | 7.1  |       |
| Butylbenzylphthalate       | 0.340 | 0.368  |            | 8.2  |       |
| 3,3-Dichlorobenzidine      | 0.465 | 0.465  |            | 0.0  |       |
| Benzo (a) anthracene       | 1.074 | 1.093  |            | 1.8  |       |
| Chrysene                   | 0.972 | 1.030  |            | 6.0  |       |
| Bis(2-ethylhexyl)phthalate | 0.499 | 0.540  |            | 8.2  |       |
| Di-n-octyl phthalate       | 0.905 | 0.923  |            | 2.0  | 20.0  |
| Benzo (b) fluoranthene     | 1.019 | 1.038  |            | 2.0  |       |
| Benzo (k) fluoranthene     | 1.023 | 0.941  |            | -8.0 |       |
| Benzo (a) pyrene           | 0.957 | 1.005  |            | 5.0  | 20.0  |
| Indeno (1,2,3-cd) pyrene   | 1.517 | 1.634  |            | 7.7  |       |
| Dibenzo (a,h) anthracene   | 1.241 | 1.343  |            | 8.2  |       |
| Benzo (g,h,i) perylene     | 1.196 | 1.287  |            | 7.6  |       |
| 1,2,4,5-Tetrachlorobenzene | 0.604 | 0.655  |            | 8.4  |       |
| 1,4-Dioxane                | 0.589 | 0.655  |            | 11.2 | 20.0  |
| 2,3,4,6-Tetrachlorophenol  | 0.339 | 0.367  |            | 8.3  |       |

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF092525\  
 Data File : BF143802.D  
 Acq On : 25 Sep 2025 13:06  
 Operator : RC/JU  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SSTDCCC040

Manual Integrations  
 APPROVED

Reviewed By :Rahul Chavli 09/26/2025  
 Supervised By :Jagrut Upadhyay 09/26/2025

Quant Time: Sep 25 14:33:57 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF092325.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Sep 24 05:00:00 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.887  | 152  | 104582   | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8            | 8.169  | 136  | 347863   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10          | 9.922  | 164  | 153714   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10          | 11.410 | 188  | 230130   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12              | 14.057 | 240  | 269656   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12              | 15.533 | 264  | 377788   | 20.000 | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.493  | 112  | 526177   | 81.743 | ng    | 0.00     |
| 7) Phenol-d6                  | 6.498  | 99   | 575748   | 77.411 | ng    | -0.01    |
| 23) Nitrobenzene-d5           | 7.445  | 82   | 478824   | 84.256 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 10.710 | 330  | 199120   | 87.487 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 9.245  | 172  | 856559   | 86.957 | ng    | 0.00     |
| 79) Terphenyl-d14             | 12.998 | 244  | 1136138  | 85.688 | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| Target Compounds              |        |      |          |        |       | Qvalue   |
| 2) 1,4-Dioxane                | 2.634  | 88   | 137047   | 44.481 | ng    | 99       |
| 3) Pyridine                   | 3.399  | 79   | 347233   | 41.751 | ng    | 97       |
| 4) n-Nitrosodimethylamine     | 3.340  | 42   | 161912   | 38.826 | ng    | 94       |
| 6) Aniline                    | 6.545  | 93   | 407371   | 37.738 | ng    | 99       |
| 8) 2-Chlorophenol             | 6.669  | 128  | 263465   | 39.981 | ng    | 98       |
| 9) Benzaldehyde               | 6.434  | 77   | 227579   | 34.942 | ng    | 99       |
| 10) Phenol                    | 6.516  | 94   | 325930m  | 37.701 | ng    |          |
| 11) bis(2-Chloroethyl)ether   | 6.616  | 93   | 259976   | 38.364 | ng    | 99       |
| 12) 1,3-Dichlorobenzene       | 6.828  | 146  | 309941   | 40.509 | ng    | 99       |
| 13) 1,4-Dichlorobenzene       | 6.904  | 146  | 305856   | 40.057 | ng    | 100      |
| 14) 1,2-Dichlorobenzene       | 7.057  | 146  | 282473   | 39.060 | ng    | 98       |
| 15) Benzyl Alcohol            | 7.022  | 79   | 200542   | 37.316 | ng    | 99       |
| 16) 2,2'-oxybis(1-Chloropr... | 7.157  | 45   | 585866   | 36.459 | ng    | 100      |
| 17) 2-Methylphenol            | 7.128  | 107  | 191056   | 37.449 | ng    | 99       |
| 18) Hexachloroethane          | 7.398  | 117  | 108879   | 40.547 | ng    | 99       |
| 19) n-Nitroso-di-n-propyla... | 7.292  | 70   | 163589   | 34.204 | ng    | 98       |
| 20) 3+4-Methylphenols         | 7.281  | 107  | 233199   | 37.534 | ng    | 94       |
| 22) Acetophenone              | 7.292  | 105  | 308023   | 40.315 | ng    | 97       |
| 24) Nitrobenzene              | 7.463  | 77   | 262670   | 41.699 | ng    | 98       |
| 25) Isophorone                | 7.698  | 82   | 419359   | 37.868 | ng    | 100      |
| 26) 2-Nitrophenol             | 7.781  | 139  | 101572   | 39.769 | ng    | 97       |
| 27) 2,4-Dimethylphenol        | 7.810  | 122  | 192377   | 38.866 | ng    | 99       |
| 28) bis(2-Chloroethoxy)met... | 7.910  | 93   | 274539   | 38.157 | ng    | 99       |
| 29) 2,4-Dichlorophenol        | 8.016  | 162  | 195253   | 40.090 | ng    | 98       |
| 30) 1,2,4-Trichlorobenzene    | 8.110  | 180  | 210489   | 41.644 | ng    | 100      |
| 31) Naphthalene               | 8.192  | 128  | 682488   | 40.984 | ng    | 100      |
| 32) Benzoic acid              | 7.886  | 122  | 75542    | 31.632 | ng    | 98       |
| 33) 4-Chloroaniline           | 8.234  | 127  | 226064   | 38.630 | ng    | 100      |
| 34) Hexachlorobutadiene       | 8.310  | 225  | 157190   | 41.718 | ng    | 99       |
| 35) Caprolactam               | 8.581  | 113  | 45615    | 36.642 | ng    | 91       |
| 36) 4-Chloro-3-methylphenol   | 8.704  | 107  | 171987   | 37.652 | ng    | 97       |
| 37) 2-Methylnaphthalene       | 8.881  | 142  | 414017   | 38.990 | ng    | 99       |
| 38) 1-Methylnaphthalene       | 8.981  | 142  | 397377   | 39.098 | ng    | 100      |
| 40) 1,2,4,5-Tetrachloroben... | 9.045  | 216  | 201243   | 43.382 | ng    | 99       |
| 41) Hexachlorocyclopentadiene | 9.033  | 237  | 125390   | 42.650 | ng    | 99       |
| 43) 2,4,6-Trichlorophenol     | 9.151  | 196  | 128472   | 44.230 | ng    | 97       |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF092525\  
 Data File : BF143802.D  
 Acq On : 25 Sep 2025 13:06  
 Operator : RC/JU  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

## Instrument :

BNA\_F

## ClientSampleId :

SSTDCCC040

## Manual Integrations

## APPROVED

Reviewed By :Rahul Chavli 09/26/2025

Supervised By :Jagrut Upadhyay 09/26/2025

Quant Time: Sep 25 14:33:57 2025

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF092325.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Sep 24 05:00:00 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 44) 2,4,5-Trichlorophenol     | 9.192  | 196  | 123986   | 40.809 | ng    | 99       |
| 46) 1,1'-Biphenyl             | 9.345  | 154  | 468412   | 42.097 | ng    | 99       |
| 47) 2-Chloronaphthalene       | 9.369  | 162  | 379129   | 42.329 | ng    | 99       |
| 48) 2-Nitroaniline            | 9.457  | 65   | 119048   | 43.977 | ng    | 95       |
| 49) Acenaphthylene            | 9.786  | 152  | 516213   | 41.866 | ng    | 100      |
| 50) Dimethylphthalate         | 9.639  | 163  | 380041   | 40.564 | ng    | 100      |
| 51) 2,6-Dinitrotoluene        | 9.698  | 165  | 66448    | 43.168 | ng    | 93       |
| 52) Acenaphthene              | 9.957  | 154  | 331958   | 40.912 | ng    | 99       |
| 53) 3-Nitroaniline            | 9.869  | 138  | 82818    | 44.387 | ng    | 100      |
| 54) 2,4-Dinitrophenol         | 9.975  | 184  | 16803    | 37.264 | ng    | # 77     |
| 55) Dibenzofuran              | 10.128 | 168  | 480540   | 41.881 | ng    | 99       |
| 56) 4-Nitrophenol             | 10.016 | 139  | 59642    | 39.668 | ng    | 96       |
| 57) 2,4-Dinitrotoluene        | 10.104 | 165  | 87197    | 38.763 | ng    | 98       |
| 58) Fluorene                  | 10.475 | 166  | 348262   | 40.828 | ng    | 100      |
| 59) 2,3,4,6-Tetrachlorophenol | 10.245 | 232  | 112924   | 43.386 | ng    | 97       |
| 60) Diethylphthalate          | 10.339 | 149  | 348861   | 39.778 | ng    | 99       |
| 61) 4-Chlorophenyl-phenyle... | 10.463 | 204  | 176372   | 40.580 | ng    | 100      |
| 62) 4-Nitroaniline            | 10.480 | 138  | 73202    | 41.725 | ng    | 98       |
| 63) Azobenzene                | 10.622 | 77   | 372680   | 40.321 | ng    | 99       |
| 65) 4,6-Dinitro-2-methylph... | 10.510 | 198  | 29506    | 37.701 | ng    | 92       |
| 66) n-Nitrosodiphenylamine    | 10.580 | 169  | 319987   | 42.280 | ng    | 98       |
| 67) 4-Bromophenyl-phenylether | 10.957 | 248  | 166753   | 42.519 | ng    | 99       |
| 68) Hexachlorobenzene         | 11.022 | 284  | 230854   | 42.714 | ng    | 98       |
| 69) Atrazine                  | 11.104 | 200  | 91458    | 41.731 | ng    | 97       |
| 70) Pentachlorophenol         | 11.210 | 266  | 115094   | 42.781 | ng    | 98       |
| 71) Phenanthrene              | 11.433 | 178  | 501591   | 42.454 | ng    | 99       |
| 72) Anthracene                | 11.486 | 178  | 497611   | 41.988 | ng    | 99       |
| 73) Carbazole                 | 11.639 | 167  | 443477   | 42.799 | ng    | 100      |
| 74) Di-n-butylphthalate       | 11.974 | 149  | 524645   | 44.025 | ng    | 100      |
| 75) Fluoranthene              | 12.627 | 202  | 513260   | 43.193 | ng    | 99       |
| 77) Benzidine                 | 12.745 | 184  | 259270   | 39.457 | ng    | 99       |
| 78) Pyrene                    | 12.857 | 202  | 544153   | 41.045 | ng    | 99       |
| 80) Butylbenzylphthalate      | 13.474 | 149  | 198621   | 43.304 | ng    | 99       |
| 81) Benzo(a)anthracene        | 14.045 | 228  | 589468   | 40.691 | ng    | 99       |
| 82) 3,3'-Dichlorobenzidine    | 14.010 | 252  | 250642   | 39.938 | ng    | 99       |
| 83) Chrysene                  | 14.080 | 228  | 555552   | 42.382 | ng    | 99       |
| 84) Bis(2-ethylhexyl)phtha... | 14.033 | 149  | 291258   | 43.322 | ng    | 98       |
| 85) Di-n-octyl phthalate      | 14.651 | 149  | 498026   | 40.838 | ng    | 98       |
| 87) Indeno(1,2,3-cd)pyrene    | 17.027 | 276  | 1234638  | 43.072 | ng    | 99       |
| 88) Benzo(b)fluoranthene      | 15.098 | 252  | 784257   | 40.764 | ng    | 99       |
| 89) Benzo(k)fluoranthene      | 15.127 | 252  | 710770   | 36.773 | ng    | 100      |
| 90) Benzo(a)pyrene            | 15.468 | 252  | 759384   | 41.992 | ng    | 100      |
| 91) Dibenzo(a,h)anthracene    | 17.045 | 278  | 1014551  | 43.274 | ng    | 99       |
| 92) Benzo(g,h,i)perylene      | 17.474 | 276  | 972510   | 43.031 | ng    | 100      |

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

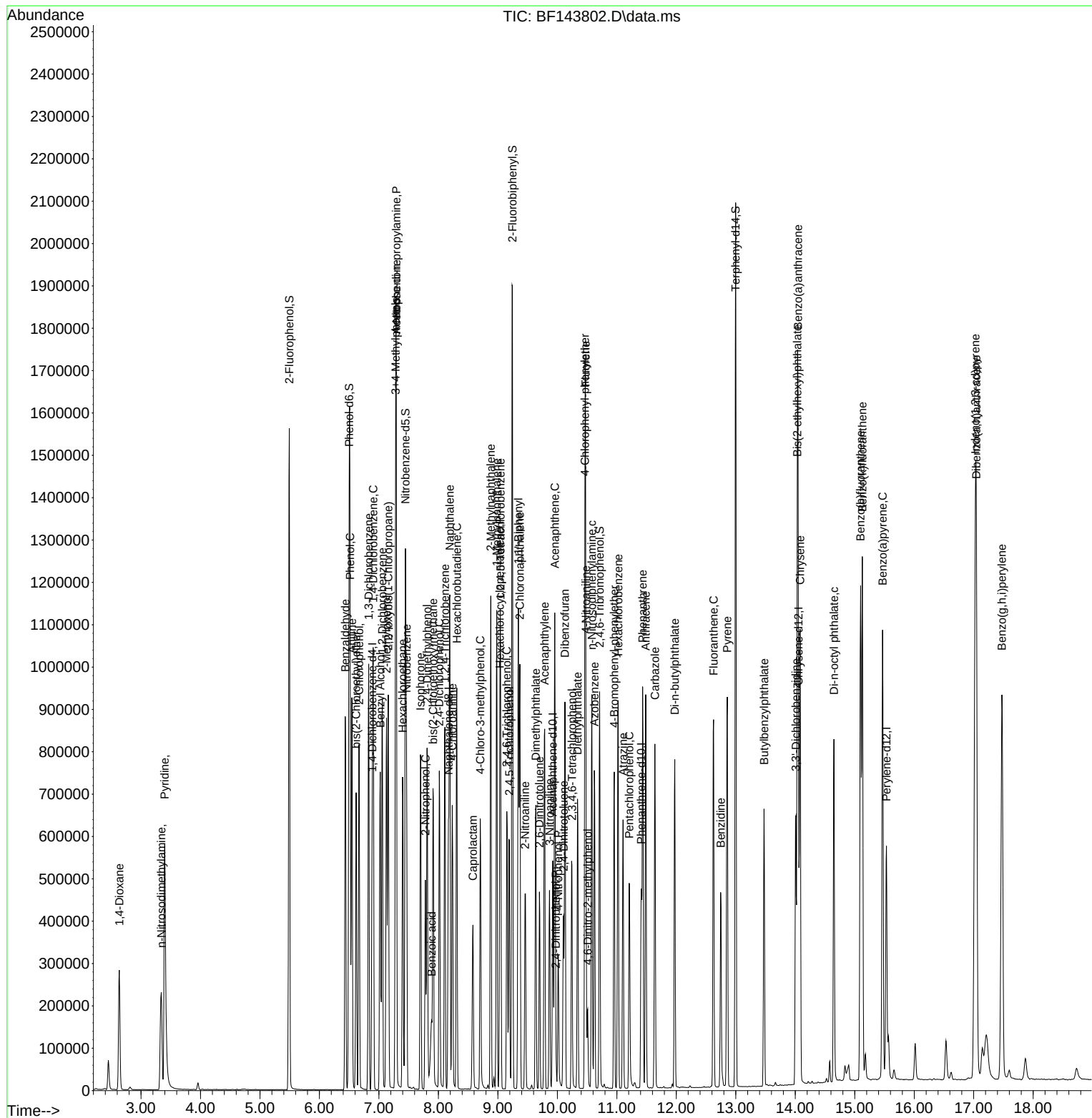
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Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF092525\  
Data File : BF143802.D  
Acq On    : 25 Sep 2025 13:06  
Operator  : RC/JU  
Sample    : SSTDCCC040  
Misc      :  
ALS Vial  : 2    Sample Multiplier: 1
```

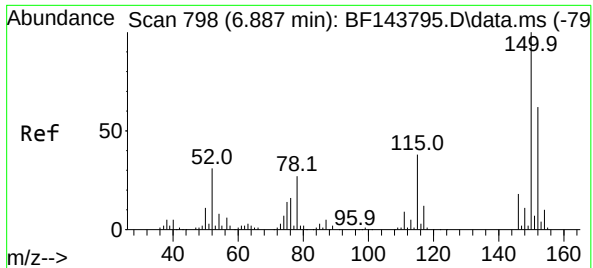
**Instrument :**  
BNA\_F  
**ClientSampleId :**  
SSTDCCC040

## Manual Integrations

Reviewed By :Rahul Chavli 09/26/2025  
Supervised By :Jagrut Upadhyay 09/26/2025

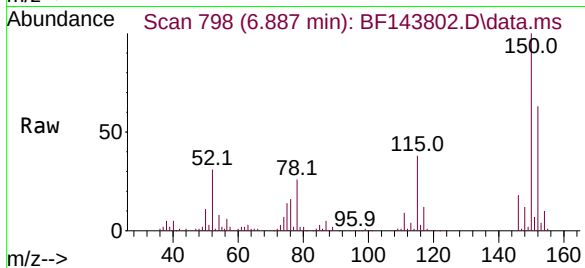
Quant Time: Sep 25 14:33:57 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF092325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Sep 24 05:00:00 2025  
Response via : Initial Calibration





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.887 min Scan# 79  
Delta R.T. -0.000 min  
Lab File: BF143802.D  
Acq: 25 Sep 2025 13:06

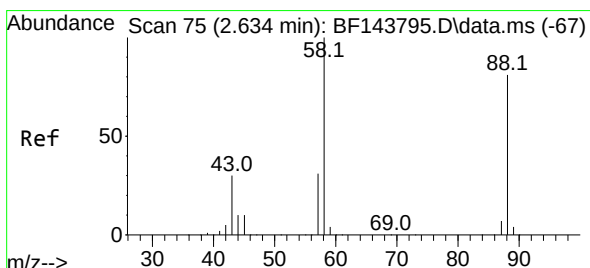
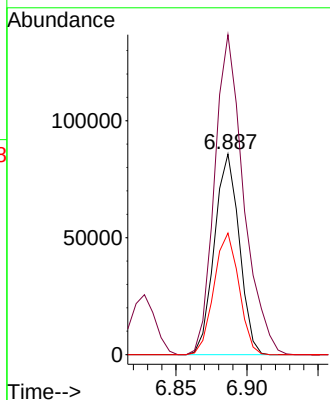
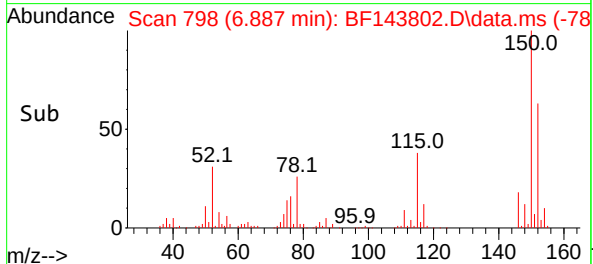
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDCCC040



Tgt Ion:152 Resp: 104582  
Ion Ratio Lower Upper  
152 100  
150 159.6 129.6 194.4  
115 60.6 49.0 73.4

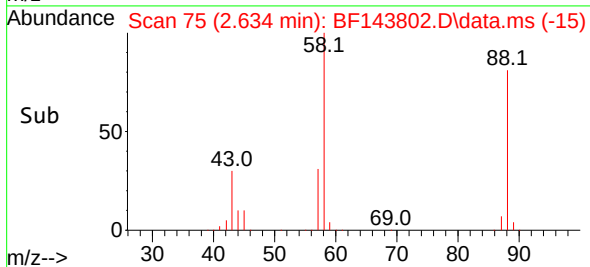
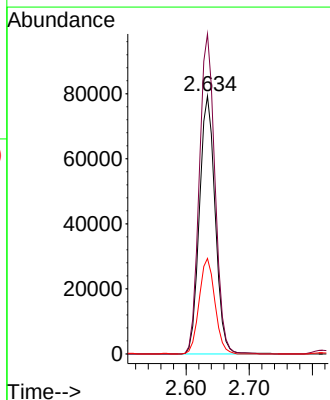
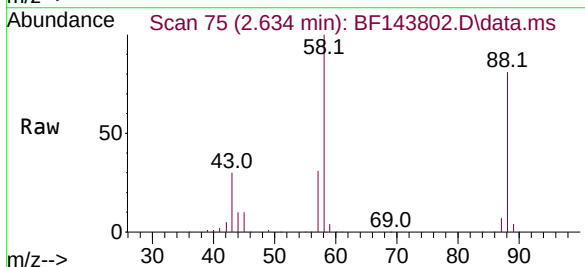
Manual Integrations  
APPROVED

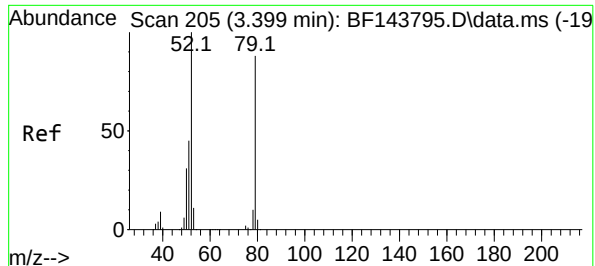
Reviewed By :Rahul Chavli 09/26/2025  
Supervised By :Jagrut Upadhyay 09/26/2025



#2  
1,4-Dioxane  
Concen: 44.481 ng  
RT: 2.634 min Scan# 75  
Delta R.T. 0.000 min  
Lab File: BF143802.D  
Acq: 25 Sep 2025 13:06

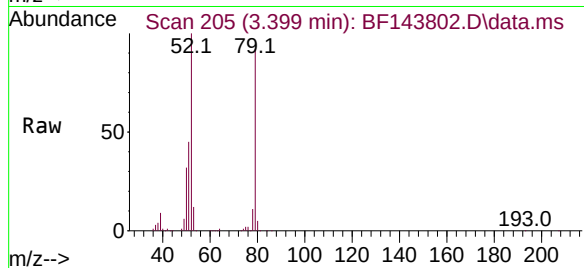
Tgt Ion: 88 Resp: 137047  
Ion Ratio Lower Upper  
88 100  
58 123.2 99.4 149.2  
43 37.0 30.6 45.8





#3  
Pyridine  
Concen: 41.751 ng  
RT: 3.399 min Scan# 205  
Delta R.T. 0.000 min  
Lab File: BF143802.D  
Acq: 25 Sep 2025 13:06

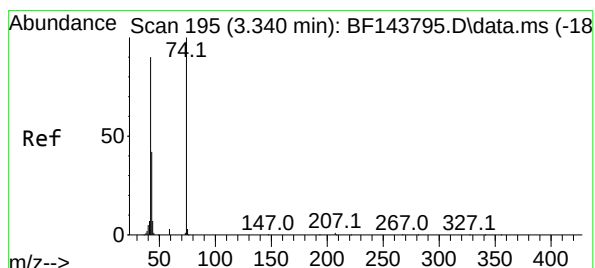
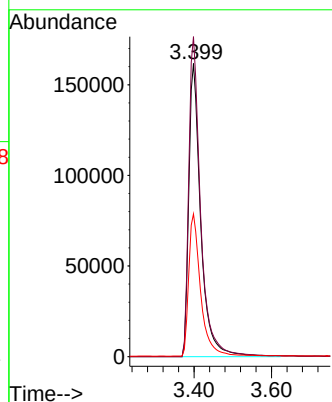
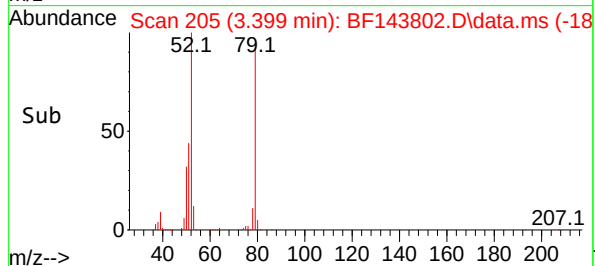
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDCCC040



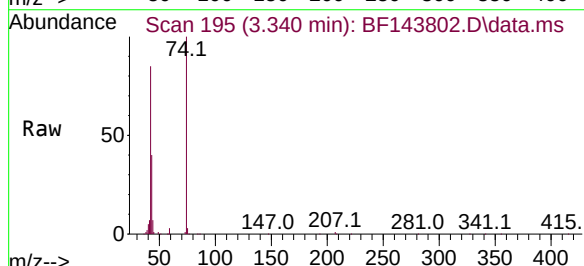
Tgt Ion: 79 Resp: 347233  
Ion Ratio Lower Upper  
79 100  
52 109.2 90.5 135.7  
51 48.7 40.6 61.0

Manual Integrations  
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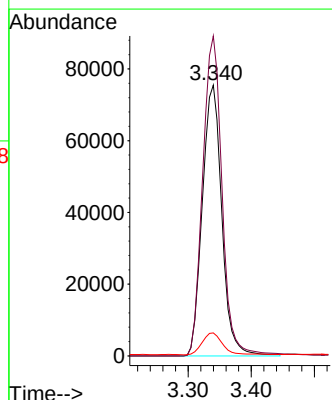
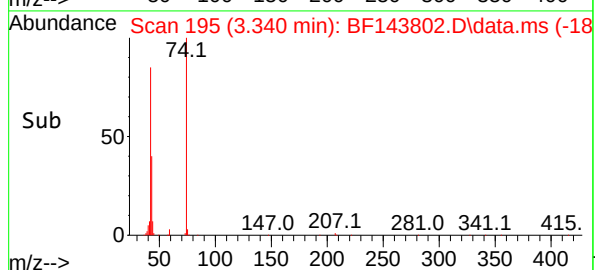
Reviewed By :Rahul Chavli 09/26/2025  
Supervised By :Jagrut Upadhyay 09/26/2025

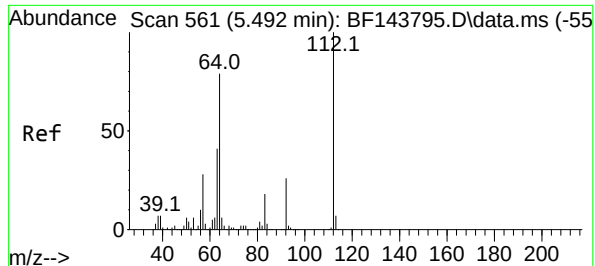


#4  
n-Nitrosodimethylamine  
Concen: 38.826 ng  
RT: 3.340 min Scan# 195  
Delta R.T. -0.018 min  
Lab File: BF143802.D  
Acq: 25 Sep 2025 13:06



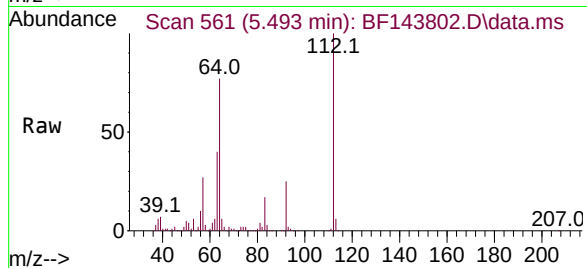
Tgt Ion: 42 Resp: 161912  
Ion Ratio Lower Upper  
42 100  
74 118.1 89.1 133.7  
44 8.5 6.4 9.6





#5  
2-Fluorophenol  
Concen: 81.743 ng  
RT: 5.493 min Scan# 561  
Delta R.T. -0.005 min  
Lab File: BF143802.D  
Acq: 25 Sep 2025 13:06

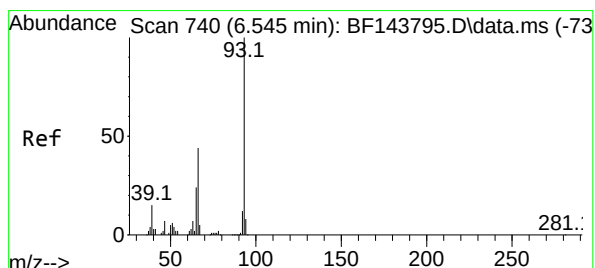
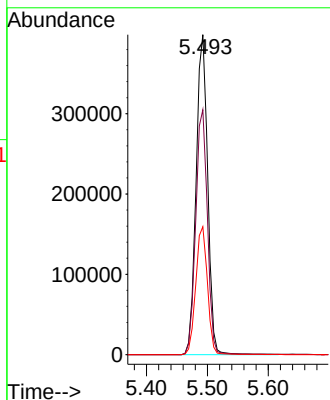
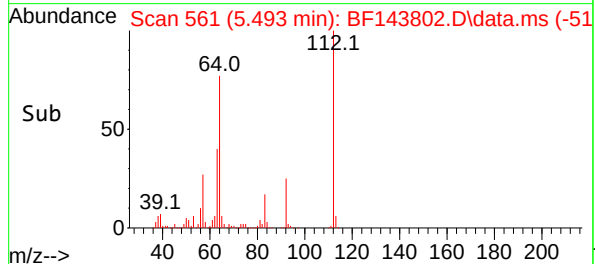
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDCCC040



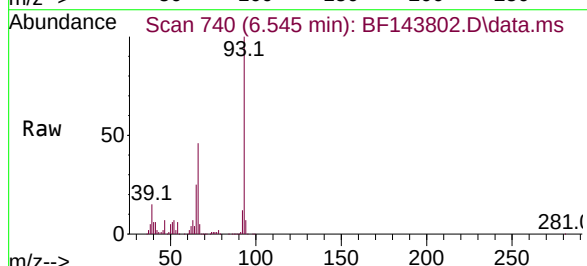
Tgt Ion: 112 Resp: 526172  
Ion Ratio Lower Upper  
112 100  
64 76.5 63.0 94.4  
63 40.0 32.6 49.0

Manual Integrations  
APPROVED

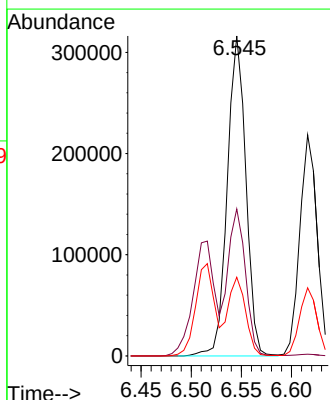
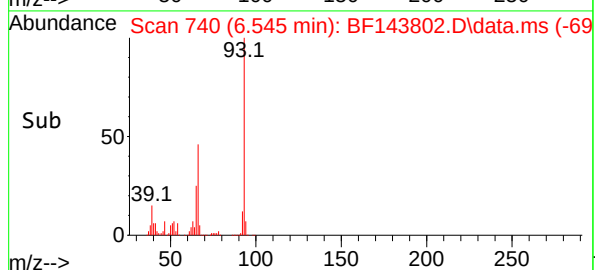
Reviewed By :Rahul Chavli 09/26/2025  
Supervised By :Jagrut Upadhyay 09/26/2025

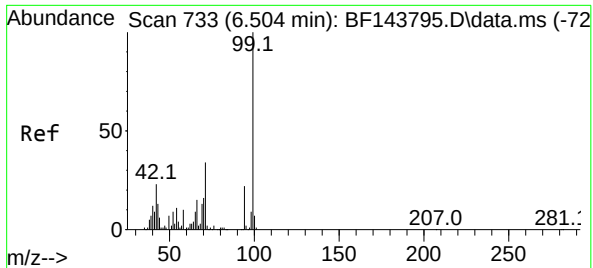


#6  
Aniline  
Concen: 37.738 ng  
RT: 6.545 min Scan# 740  
Delta R.T. -0.006 min  
Lab File: BF143802.D  
Acq: 25 Sep 2025 13:06



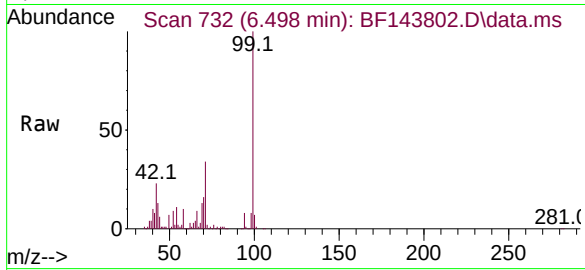
Tgt Ion: 93 Resp: 407371  
Ion Ratio Lower Upper  
93 100  
66 45.9 37.1 55.7  
65 24.6 19.4 29.0





#7  
Phenol-d6  
Concen: 77.411 ng  
RT: 6.498 min Scan# 733  
Delta R.T. -0.012 min  
Lab File: BF143802.D  
Acq: 25 Sep 2025 13:06

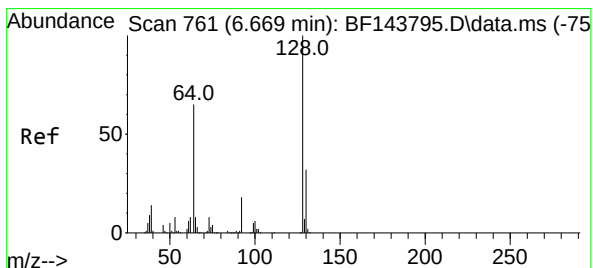
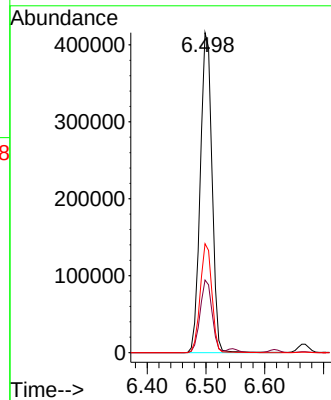
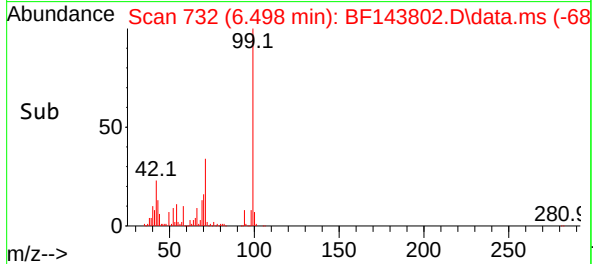
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDCCC040



Tgt Ion: 99 Resp: 575748  
Ion Ratio Lower Upper  
99 100  
42 22.7 18.6 28.0  
71 34.0 27.0 40.4

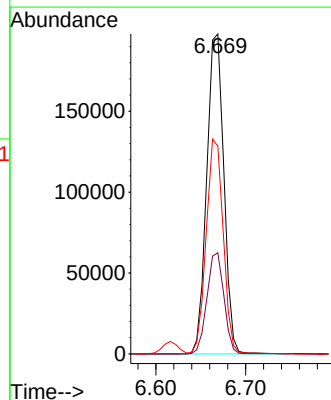
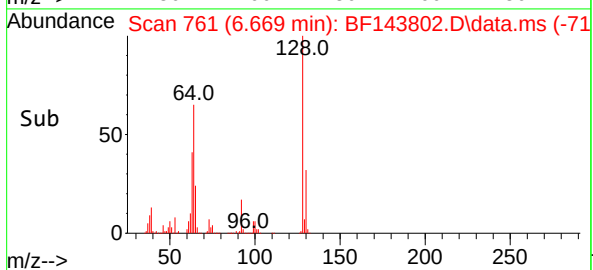
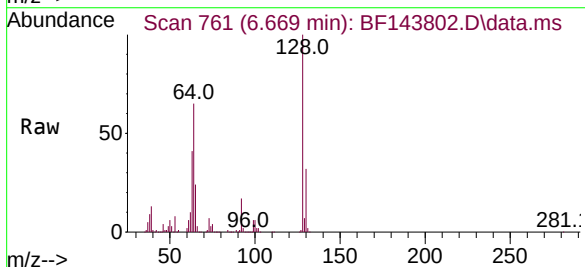
Manual Integrations  
APPROVED

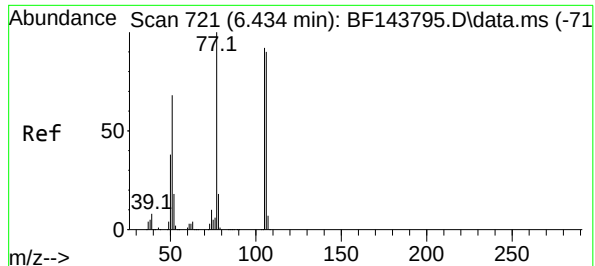
Reviewed By :Rahul Chavli 09/26/2025  
Supervised By :Jagrut Upadhyay 09/26/2025



#8  
2-Chlorophenol  
Concen: 39.981 ng  
RT: 6.669 min Scan# 761  
Delta R.T. 0.000 min  
Lab File: BF143802.D  
Acq: 25 Sep 2025 13:06

Tgt Ion:128 Resp: 263465  
Ion Ratio Lower Upper  
128 100  
130 31.6 12.2 52.2  
64 64.9 46.5 86.5





#9

Benzaldehyde

Concen: 34.942 ng

RT: 6.434 min Scan# 721

Delta R.T. -0.006 min

Lab File: BF143802.D

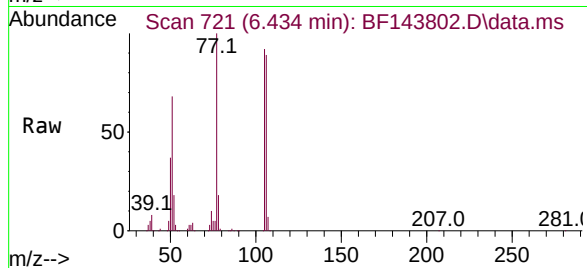
Acq: 25 Sep 2025 13:06

Instrument :

BNA\_F

ClientSampleId :

SSTDCCC040



Tgt Ion: 77 Resp: 227579

Ion Ratio Lower Upper

77 100

105 92.5 71.8 111.8

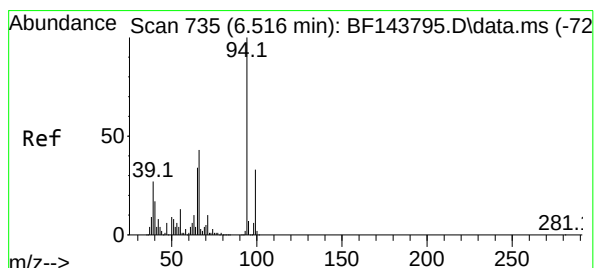
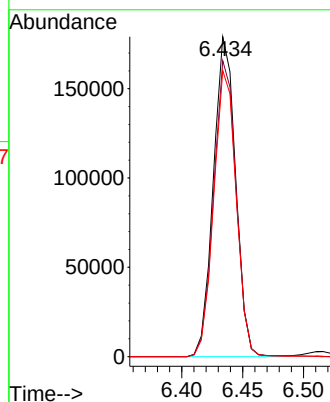
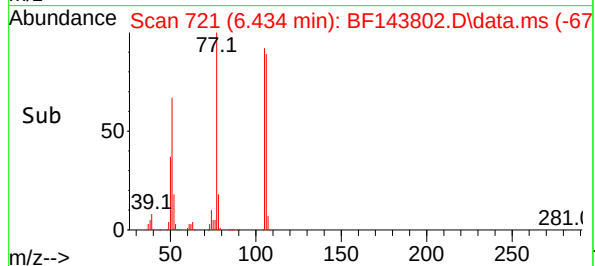
106 89.4 69.8 109.8

Manual Integrations

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Reviewed By :Rahul Chavli 09/26/2025

Supervised By :Jagrut Upadhyay 09/26/2025



#10

Phenol

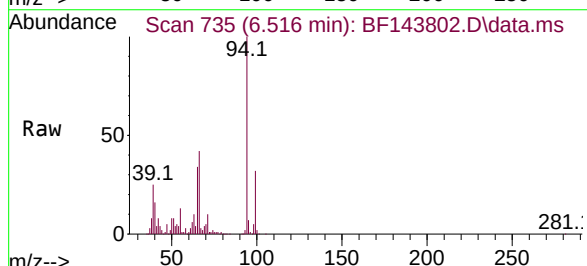
Concen: 37.701 ng m

RT: 6.516 min Scan# 735

Delta R.T. -0.012 min

Lab File: BF143802.D

Acq: 25 Sep 2025 13:06



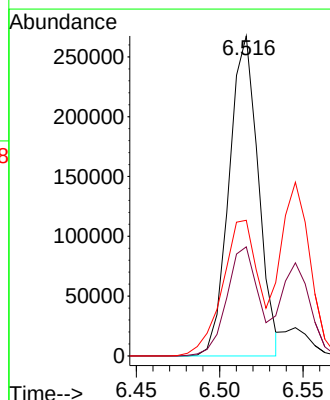
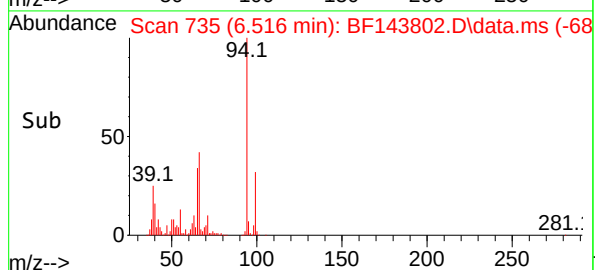
Tgt Ion: 94 Resp: 325930

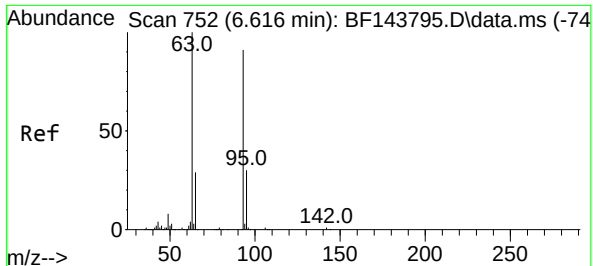
Ion Ratio Lower Upper

94 100

65 34.1 14.2 54.2

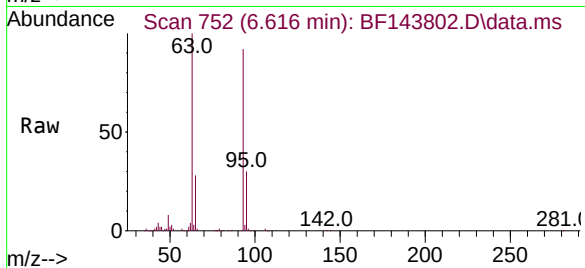
66 42.4 24.1 64.1





#11  
bis(2-Chloroethyl)ether  
Concen: 38.364 ng  
RT: 6.616 min Scan# 752  
Delta R.T. -0.006 min  
Lab File: BF143802.D  
Acq: 25 Sep 2025 13:06

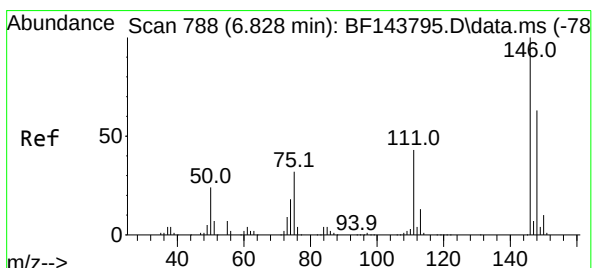
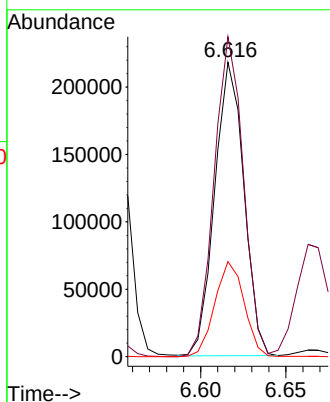
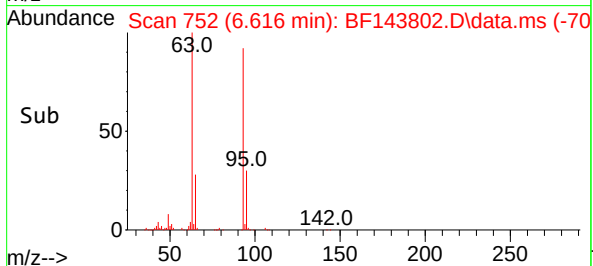
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDCCC040



Tgt Ion: 93 Resp: 259976  
Ion Ratio Lower Upper  
93 100  
63 108.7 89.2 129.2  
95 32.3 12.9 52.9

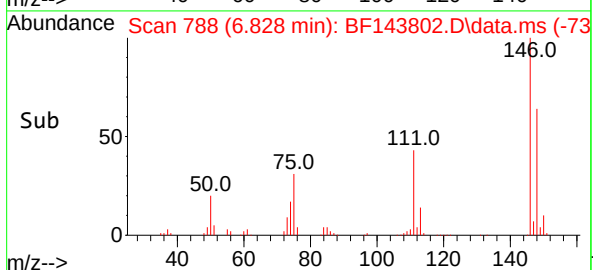
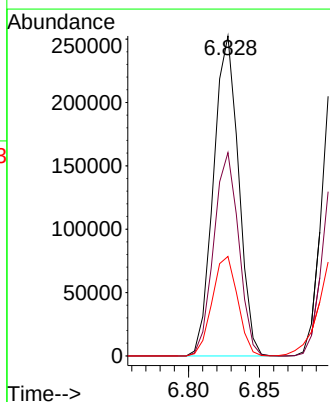
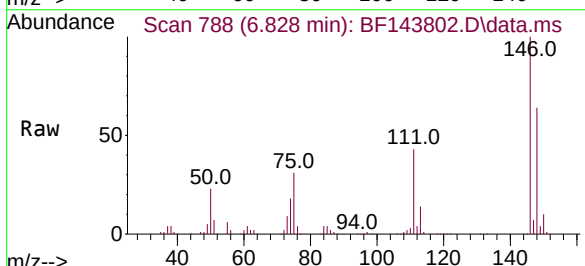
Manual Integrations  
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Reviewed By :Rahul Chavli 09/26/2025  
Supervised By :Jagrut Upadhyay 09/26/2025

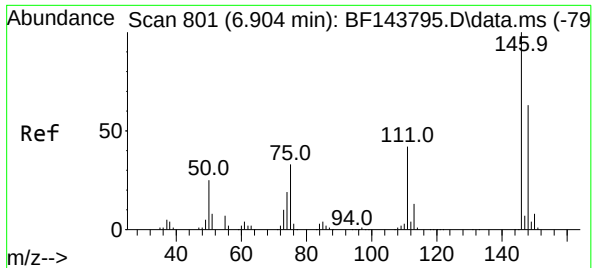


#12  
1,3-Dichlorobenzene  
Concen: 40.509 ng  
RT: 6.828 min Scan# 788  
Delta R.T. 0.000 min  
Lab File: BF143802.D  
Acq: 25 Sep 2025 13:06

Tgt Ion:146 Resp: 309941  
Ion Ratio Lower Upper  
146 100  
148 63.5 50.4 75.6  
75 31.1 25.6 38.4







#13

1,4-Dichlorobenzene

Concen: 40.057 ng

RT: 6.904 min Scan# 801

Delta R.T. 0.000 min

Lab File: BF143802.D

Acq: 25 Sep 2025 13:06

Instrument :

BNA\_F

ClientSampleId :

SSTDCCC040

Tgt Ion:146 Resp: 305856

Ion Ratio Lower Upper

146 100

148 63.6 50.7 76.1

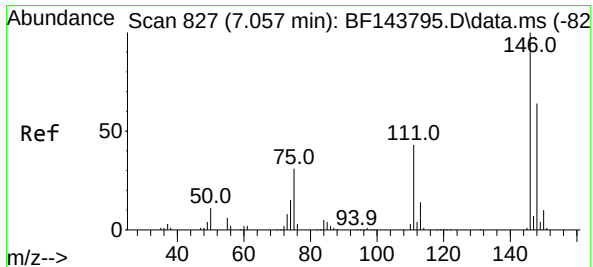
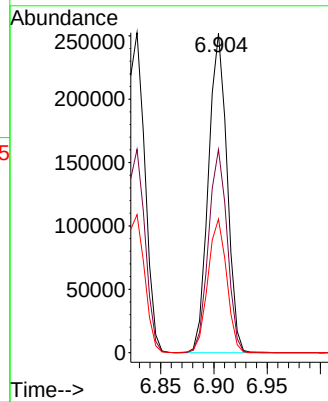
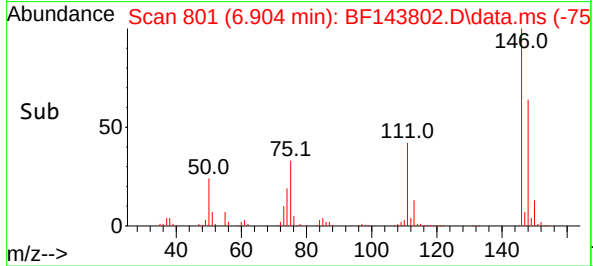
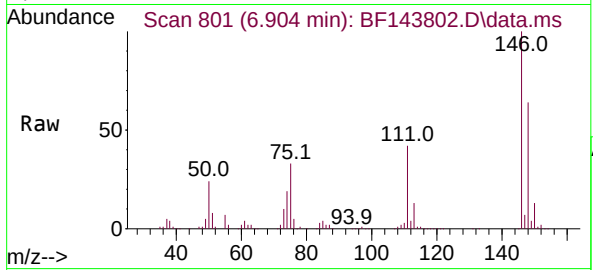
111 41.8 33.4 50.2

Manual Integrations

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Reviewed By :Rahul Chavli 09/26/2025

Supervised By :Jagrut Upadhyay 09/26/2025



#14

1,2-Dichlorobenzene

Concen: 39.060 ng

RT: 7.057 min Scan# 827

Delta R.T. 0.000 min

Lab File: BF143802.D

Acq: 25 Sep 2025 13:06

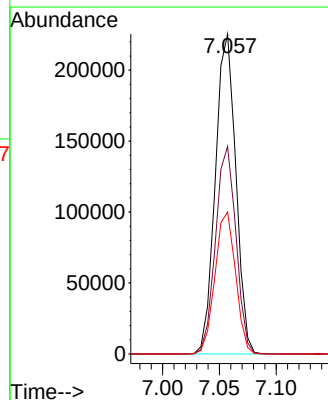
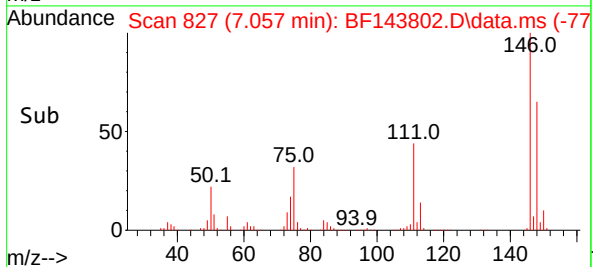
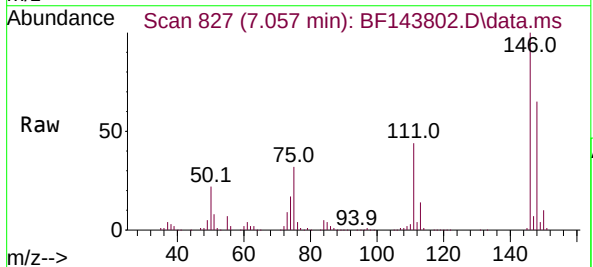
Tgt Ion:146 Resp: 282473

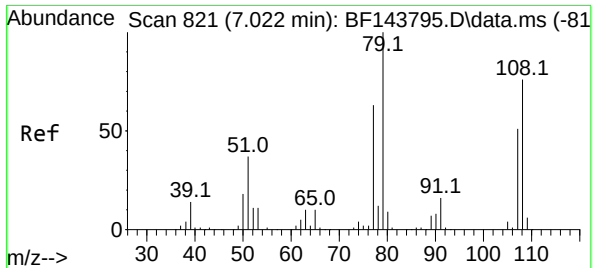
Ion Ratio Lower Upper

146 100

148 64.9 51.1 76.7

111 44.3 34.3 51.5





#15

Benzyl Alcohol

Concen: 37.316 ng

RT: 7.022 min Scan# 81

Delta R.T. -0.006 min

Lab File: BF143802.D

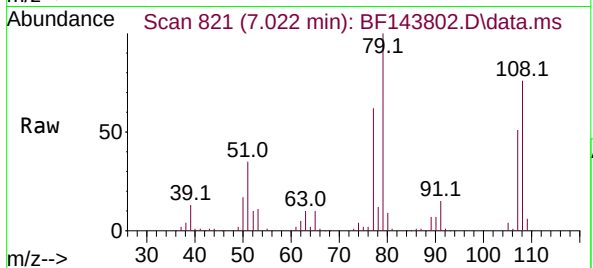
Acq: 25 Sep 2025 13:06

Instrument :

BNA\_F

ClientSampleId :

SSTDCCC040



Tgt Ion: 79 Resp: 200542

Ion Ratio Lower Upper

79 100

108 75.9 60.5 90.7

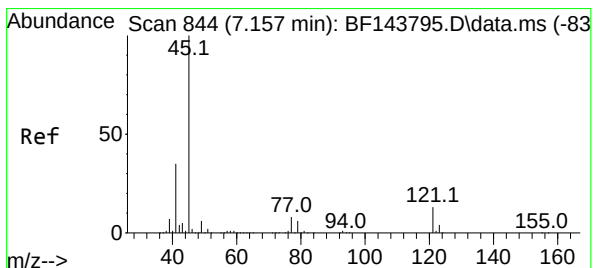
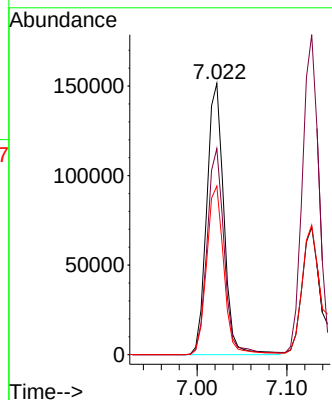
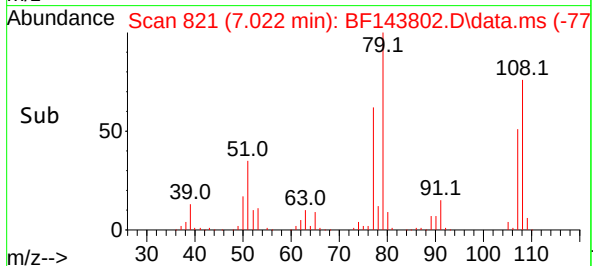
77 62.2 50.3 75.5

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/26/2025

Supervised By :Jagrut Upadhyay 09/26/2025



#16

2,2'-oxybis(1-Chloropropane)

Concen: 36.459 ng

RT: 7.157 min Scan# 844

Delta R.T. 0.000 min

Lab File: BF143802.D

Acq: 25 Sep 2025 13:06

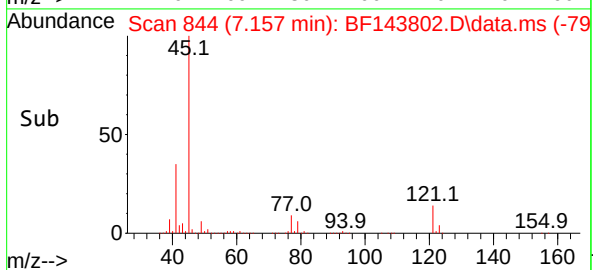
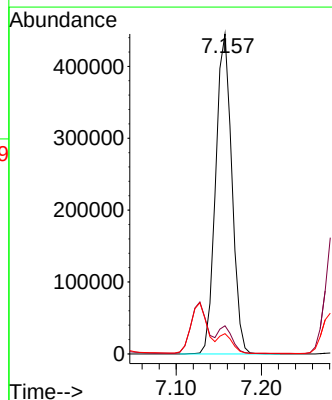
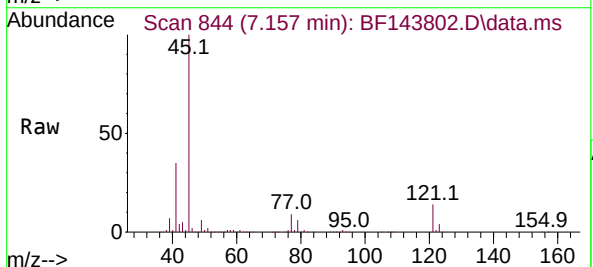
Tgt Ion: 45 Resp: 585866

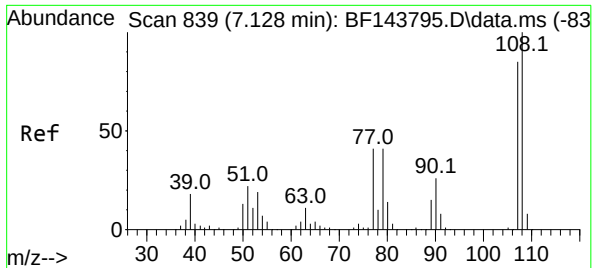
Ion Ratio Lower Upper

45 100

77 8.8 0.0 28.5

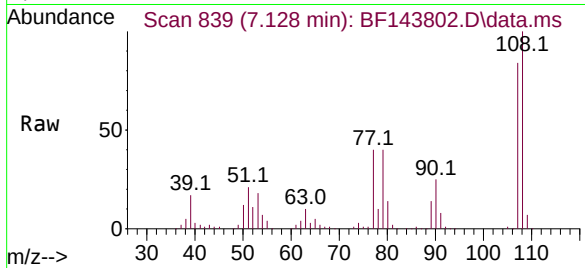
79 6.3 0.0 26.3





#17  
2-Methylphenol  
Concen: 37.449 ng  
RT: 7.128 min Scan# 839  
Delta R.T. -0.006 min  
Lab File: BF143802.D  
Acq: 25 Sep 2025 13:06

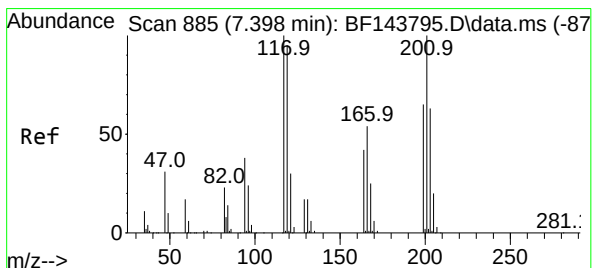
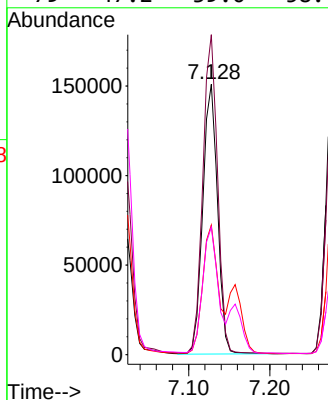
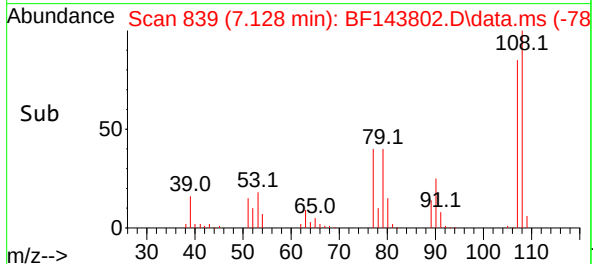
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDCCC040



Tgt Ion:107 Resp: 191056  
Ion Ratio Lower Upper  
107 100  
108 118.4 94.2 141.4  
77 47.9 38.6 58.0  
79 47.2 39.0 58.4

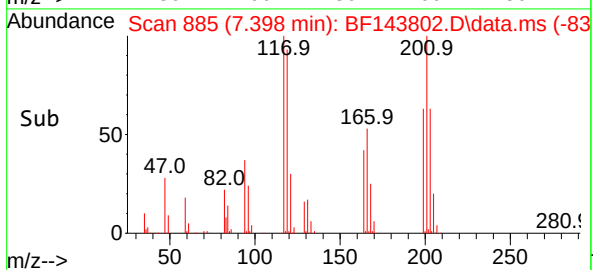
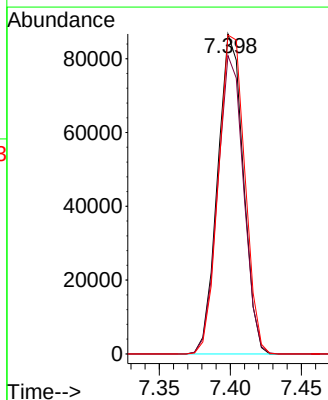
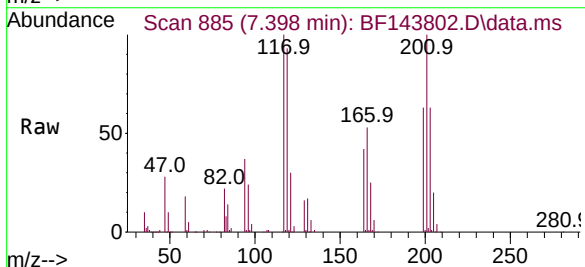
Manual Integrations  
APPROVED

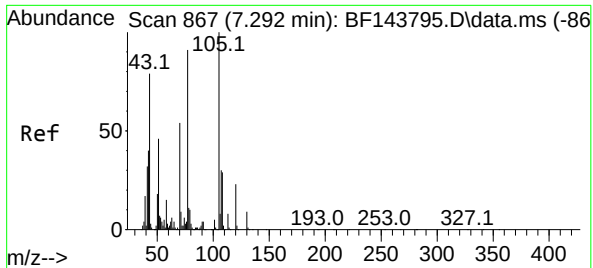
Reviewed By :Rahul Chavli 09/26/2025  
Supervised By :Jagrut Upadhyay 09/26/2025



#18  
Hexachloroethane  
Concen: 40.547 ng  
RT: 7.398 min Scan# 885  
Delta R.T. -0.006 min  
Lab File: BF143802.D  
Acq: 25 Sep 2025 13:06

Tgt Ion:117 Resp: 108879  
Ion Ratio Lower Upper  
117 100  
119 93.2 76.2 114.2  
201 99.6 79.7 119.5





#19

n-Nitroso-di-n-propylamine

Concen: 34.204 ng

RT: 7.292 min Scan# 867

Delta R.T. -0.012 min

Lab File: BF143802.D

Acq: 25 Sep 2025 13:06

Instrument :

BNA\_F

ClientSampleId :

SSTDCCC040

Tgt Ion: 70 Resp: 163589

Ion Ratio Lower Upper

70 100

42 72.6 59.4 89.0

101 8.9 7.1 10.7

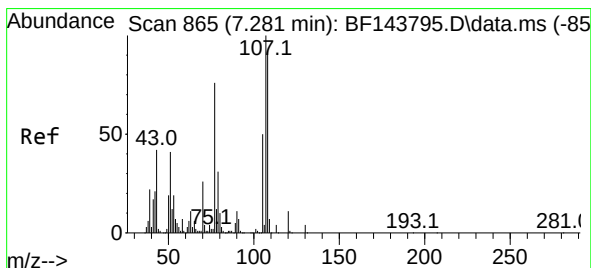
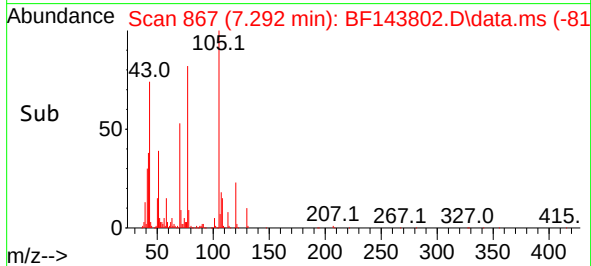
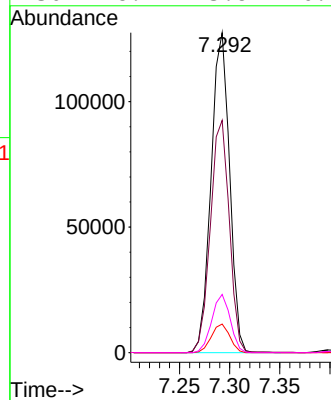
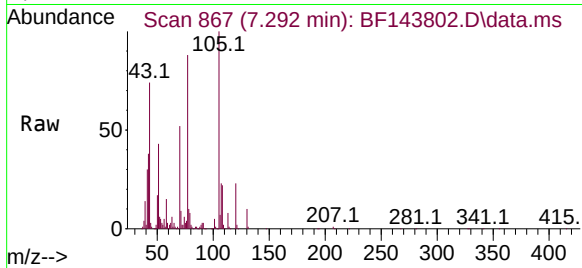
130 18.2 13.8 20.8

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/26/2025

Supervised By :Jagrut Upadhyay 09/26/2025



#20

3+4-Methylphenols

Concen: 37.534 ng

RT: 7.281 min Scan# 865

Delta R.T. -0.006 min

Lab File: BF143802.D

Acq: 25 Sep 2025 13:06

Tgt Ion:107 Resp: 233199

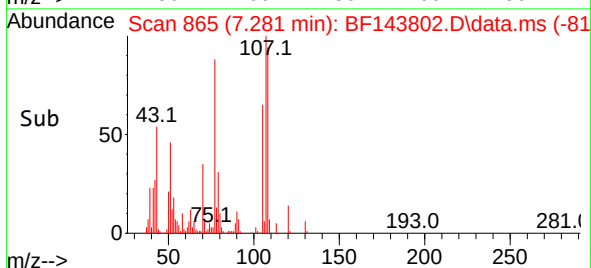
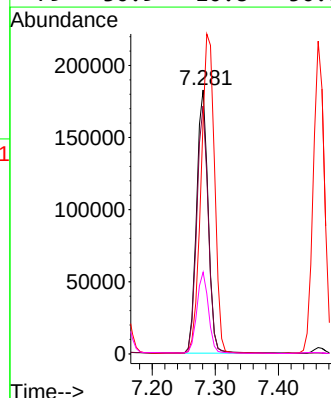
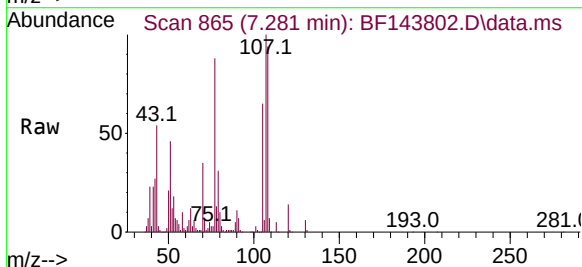
Ion Ratio Lower Upper

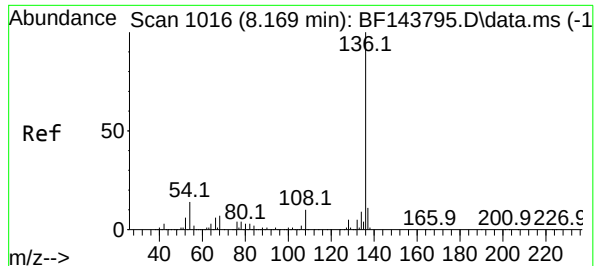
107 100

108 93.9 72.5 112.5

77 88.4 56.2 96.2

79 30.9 10.8 50.8





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.169 min Scan# 1016

Delta R.T. -0.000 min

Lab File: BF143802.D

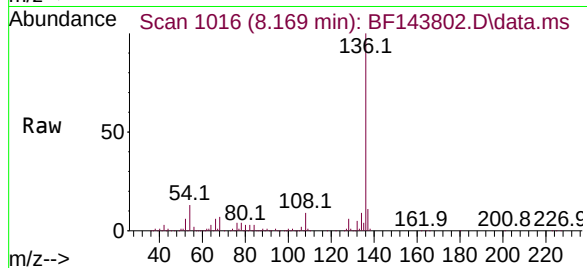
Acq: 25 Sep 2025 13:06

Instrument :

BNA\_F

ClientSampleId :

SSTDCCC040



Tgt Ion:136 Resp: 347863

Ion Ratio Lower Upper

136 100

137 10.7 9.0 13.4

54 13.1 11.2 16.8

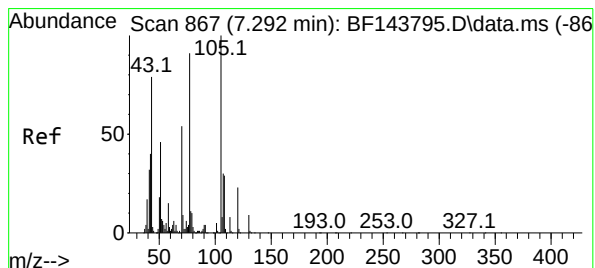
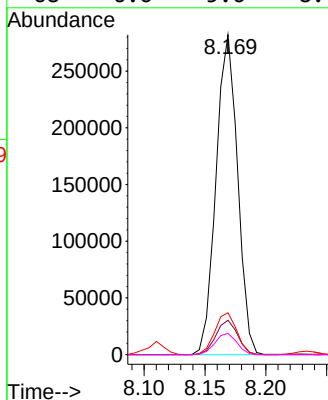
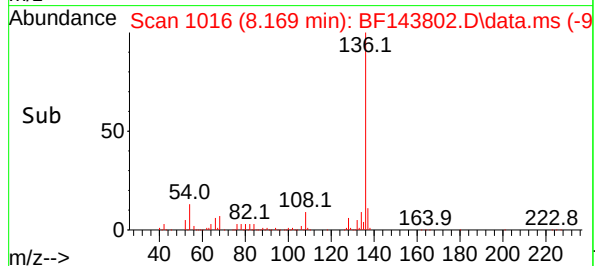
68 6.6 5.6 8.4

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/26/2025

Supervised By :Jagrut Upadhyay 09/26/2025



#22

Acetophenone

Concen: 40.315 ng

RT: 7.292 min Scan# 867

Delta R.T. -0.006 min

Lab File: BF143802.D

Acq: 25 Sep 2025 13:06

Tgt Ion:105 Resp: 308023

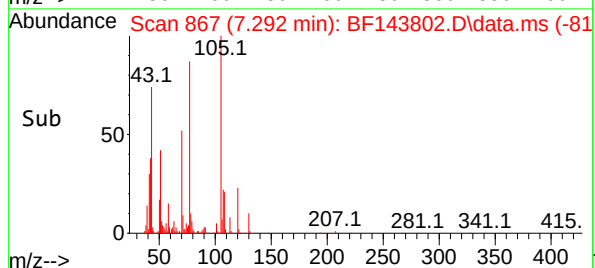
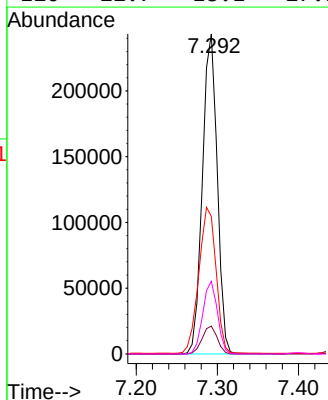
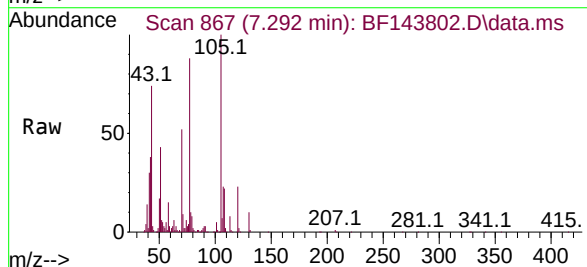
Ion Ratio Lower Upper

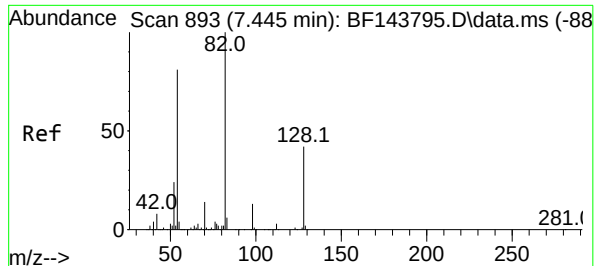
105 100

71 8.7 7.0 10.4

51 43.0 36.6 55.0

120 22.7 18.1 27.1





#23

Nitrobenzene-d5

Concen: 84.256 ng

RT: 7.445 min Scan# 893

Delta R.T. -0.006 min

Lab File: BF143802.D

Acq: 25 Sep 2025 13:06

Instrument :

BNA\_F

ClientSampleId :

SSTDCCC040

Tgt Ion: 82 Resp: 478824

Ion Ratio Lower Upper

82 100

128 42.5 33.3 49.9

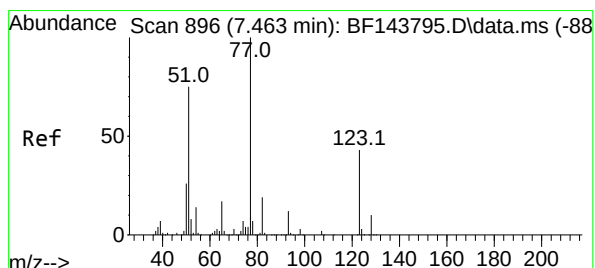
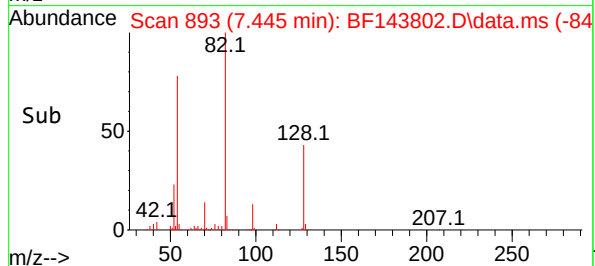
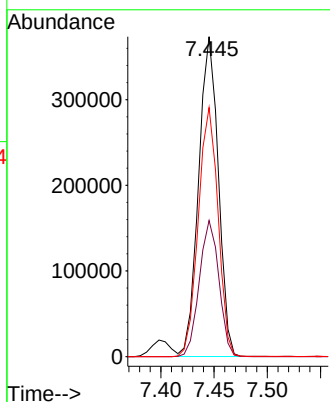
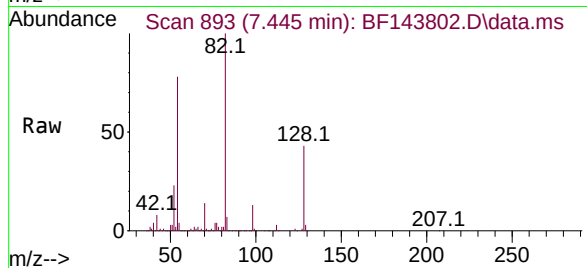
54 77.8 64.2 96.4

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/26/2025

Supervised By :Jagrut Upadhyay 09/26/2025



#24

Nitrobenzene

Concen: 41.699 ng

RT: 7.463 min Scan# 896

Delta R.T. -0.012 min

Lab File: BF143802.D

Acq: 25 Sep 2025 13:06

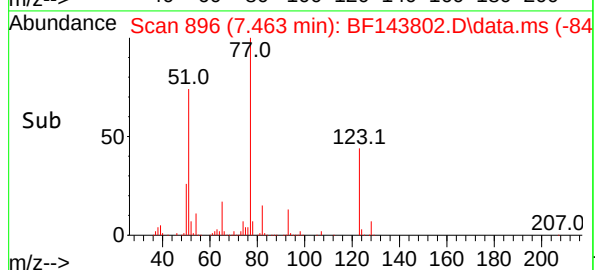
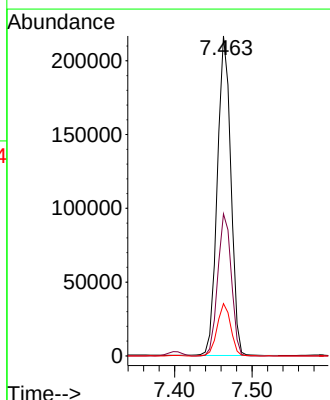
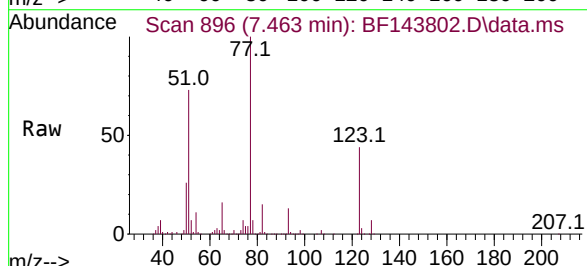
Tgt Ion: 77 Resp: 262670

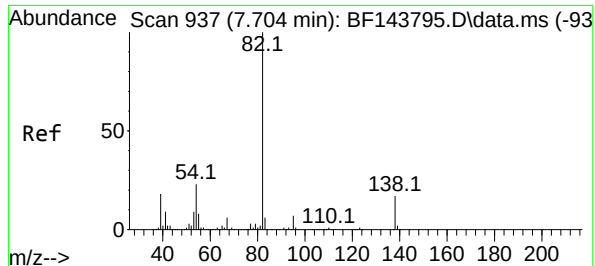
Ion Ratio Lower Upper

77 100

123 44.4 34.0 51.0

65 16.3 13.5 20.3





#25

Isophorone

Concen: 37.868 ng

RT: 7.698 min Scan# 936

Delta R.T. -0.012 min

Lab File: BF143802.D

Acq: 25 Sep 2025 13:06

Instrument :

BNA\_F

ClientSampleId :

SSTDCCC040

Tgt Ion: 82 Resp: 419359

Ion Ratio Lower Upper

82 100

95 6.6 5.4 8.2

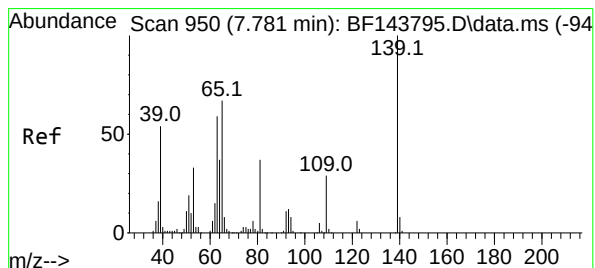
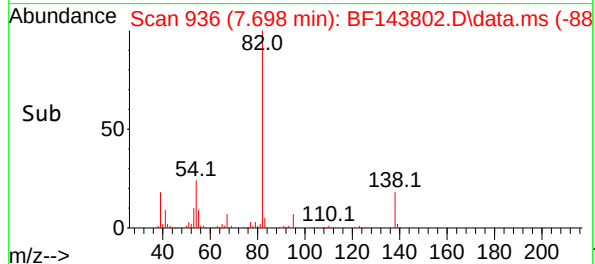
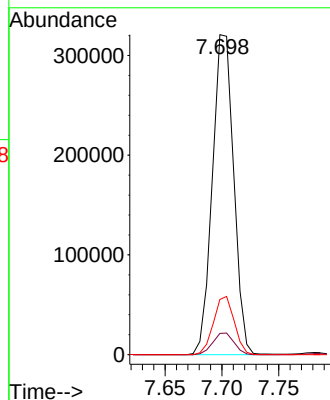
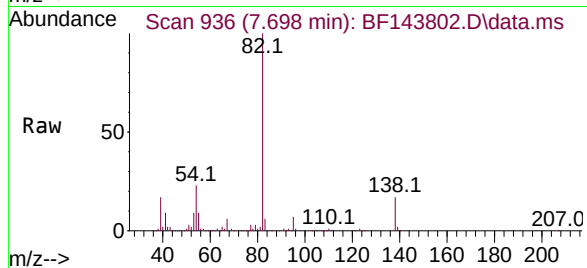
138 17.2 13.7 20.5

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/26/2025

Supervised By :Jagrut Upadhyay 09/26/2025



#26

2-Nitrophenol

Concen: 39.769 ng

RT: 7.781 min Scan# 950

Delta R.T. -0.005 min

Lab File: BF143802.D

Acq: 25 Sep 2025 13:06

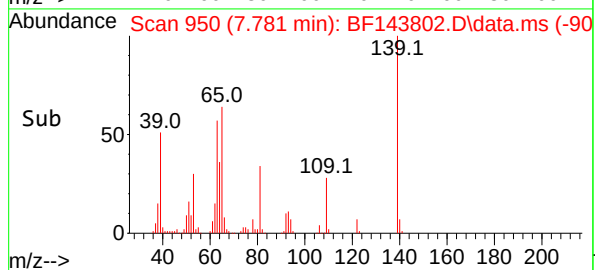
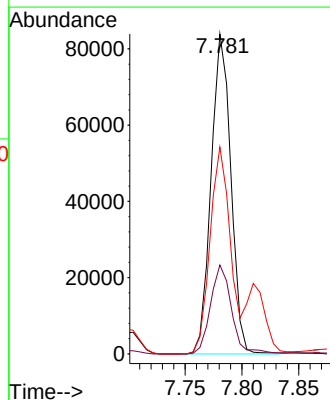
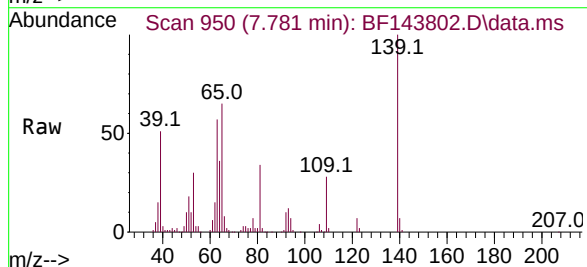
Tgt Ion:139 Resp: 101572

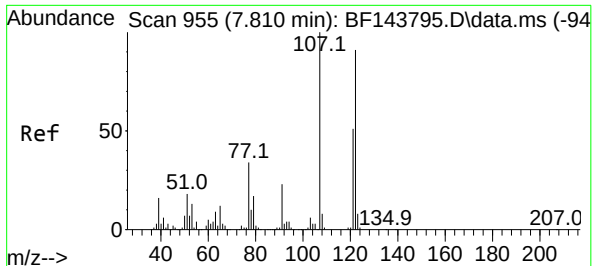
Ion Ratio Lower Upper

139 100

109 27.8 23.3 34.9

65 64.6 53.8 80.6





#27

2,4-Dimethylphenol

Concen: 38.866 ng

RT: 7.810 min Scan# 91

Delta R.T. -0.006 min

Lab File: BF143802.D

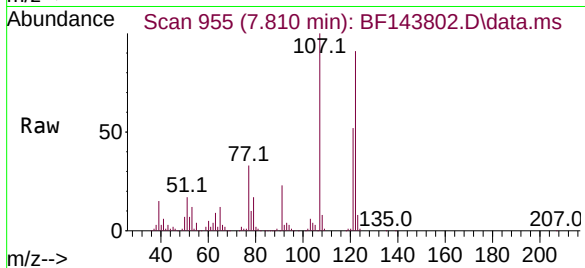
Acq: 25 Sep 2025 13:06

Instrument :

BNA\_F

ClientSampleId :

SSTDCCC040

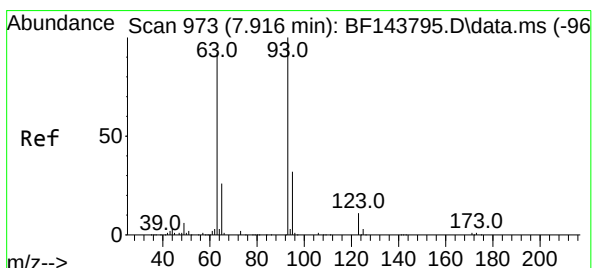
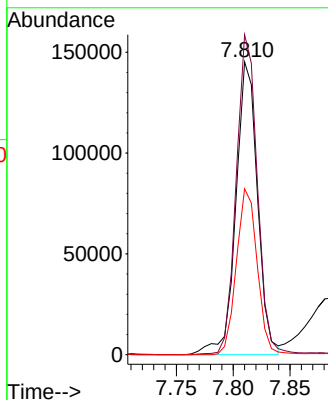
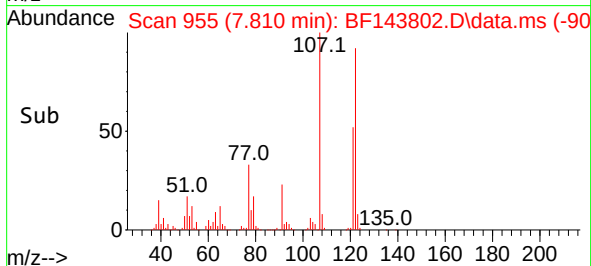


| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 122     | 100   |       |       |
| 107     | 109.3 | 87.5  | 131.3 |
| 121     | 56.7  | 44.2  | 66.4  |

## Manual Integrations

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Reviewed By :Rahul Chavli 09/26/2025  
Supervised By :Jagrut Upadhyay 09/26/2025



#28

bis(2-Chloroethoxy)methane

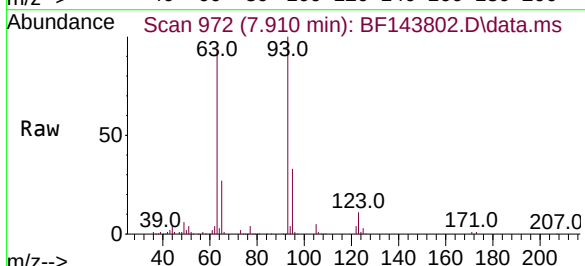
Concen: 38.157 ng

RT: 7.910 min Scan# 972

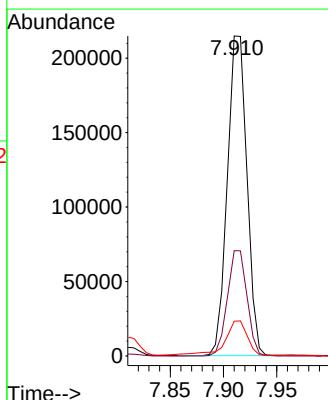
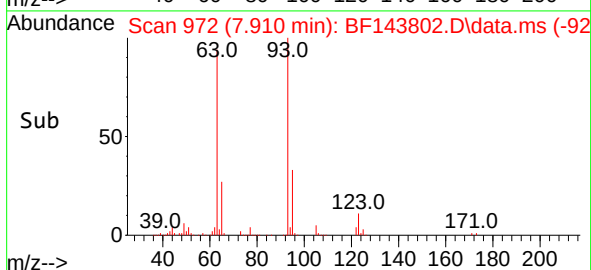
Delta R.T. -0.006 min

Lab File: BF143802.D

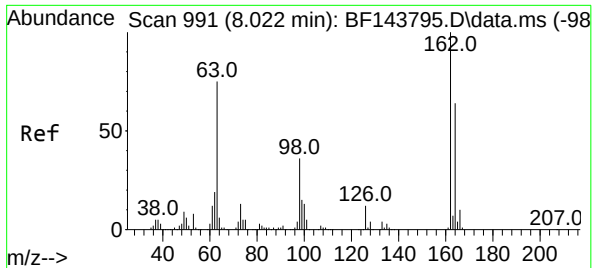
Acq: 25 Sep 2025 13:06



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 93      | 100   |       |       |
| 95      | 32.9  | 25.8  | 38.8  |
| 123     | 10.8  | 8.8   | 13.2  |







#29

2,4-Dichlorophenol

Concen: 40.090 ng

RT: 8.016 min Scan# 991

Delta R.T. -0.006 min

Lab File: BF143802.D

Acq: 25 Sep 2025 13:06

Instrument :

BNA\_F

ClientSampleId :

SSTDCCC040

Tgt Ion:162 Resp: 195253

Ion Ratio Lower Upper

162 100

164 63.7 44.1 84.1

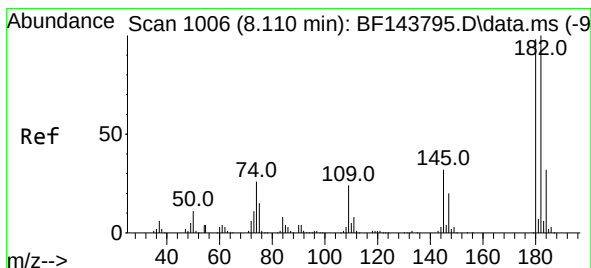
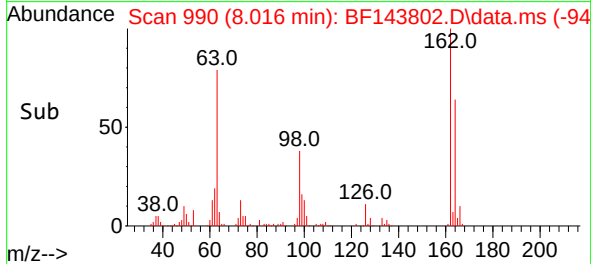
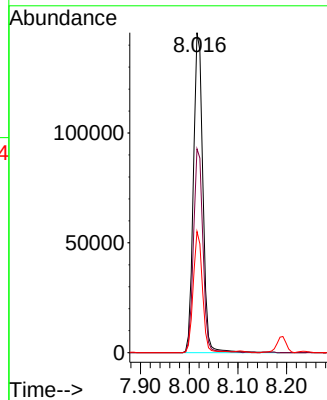
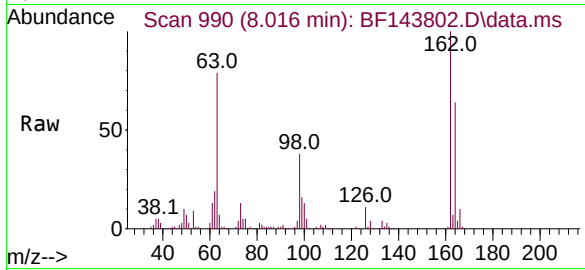
98 37.8 15.8 55.8

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/26/2025

Supervised By :Jagrut Upadhyay 09/26/2025



#30

1,2,4-Trichlorobenzene

Concen: 41.644 ng

RT: 8.110 min Scan# 1006

Delta R.T. 0.000 min

Lab File: BF143802.D

Acq: 25 Sep 2025 13:06

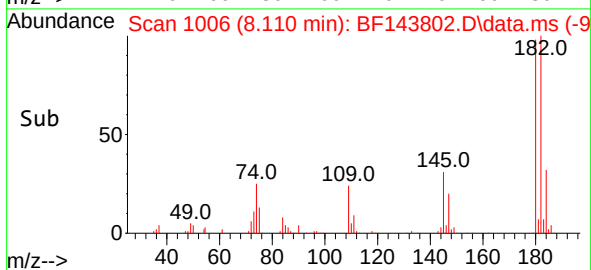
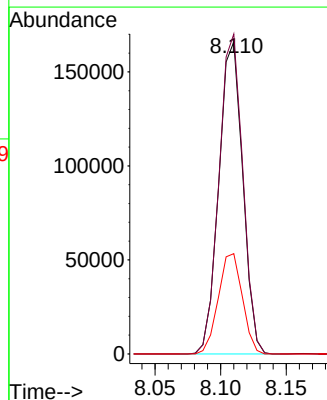
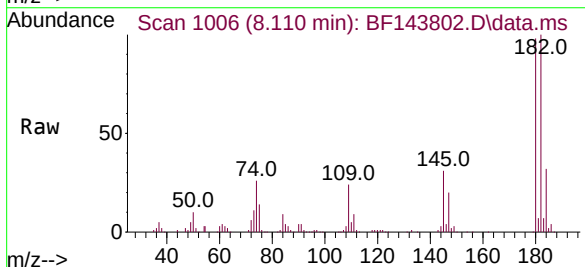
Tgt Ion:180 Resp: 210489

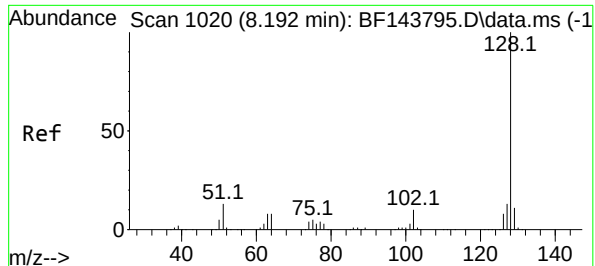
Ion Ratio Lower Upper

180 100

182 102.5 82.0 123.0

145 32.1 25.9 38.9





#31

Naphthalene

Concen: 40.984 ng

RT: 8.192 min Scan# 1020

Delta R.T. 0.000 min

Lab File: BF143802.D

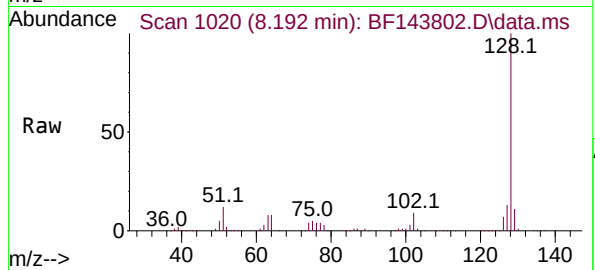
Acq: 25 Sep 2025 13:06

Instrument :

BNA\_F

ClientSampleId :

SSTDCCC040



Tgt Ion:128 Resp: 682488

Ion Ratio Lower Upper

128 100

129 11.0 8.8 13.2

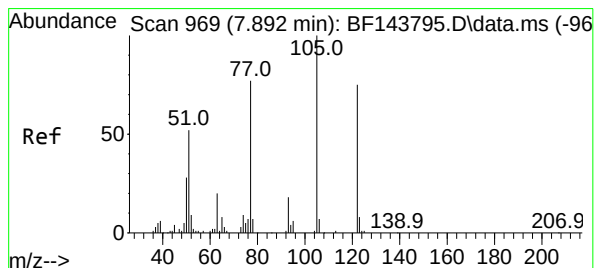
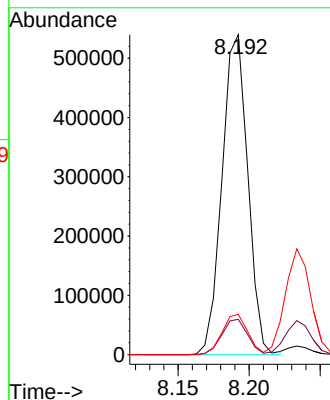
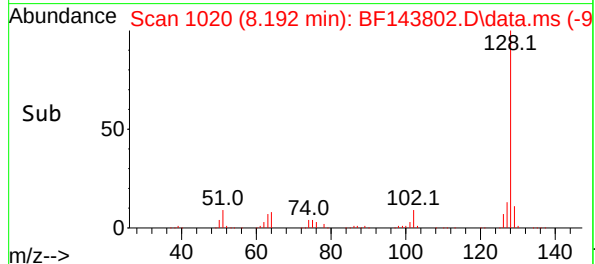
127 12.6 10.2 15.4

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/26/2025

Supervised By :Jagrut Upadhyay 09/26/2025



#32

Benzoic acid

Concen: 31.632 ng

RT: 7.886 min Scan# 968

Delta R.T. -0.035 min

Lab File: BF143802.D

Acq: 25 Sep 2025 13:06

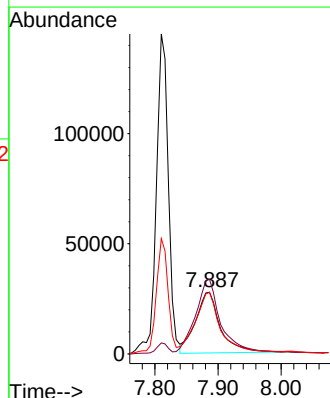
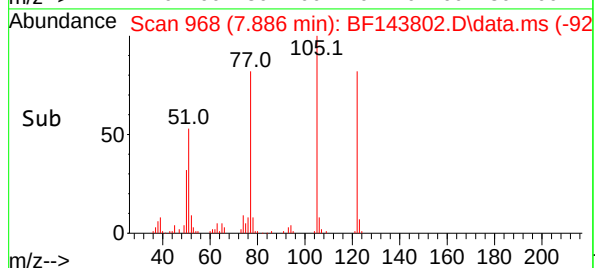
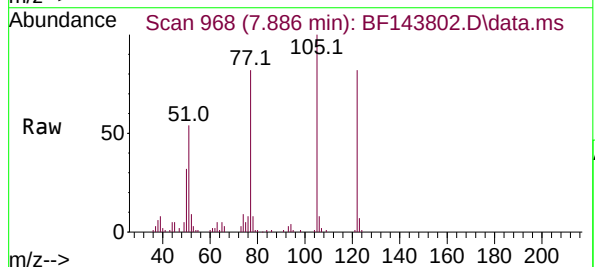
Tgt Ion:122 Resp: 75542

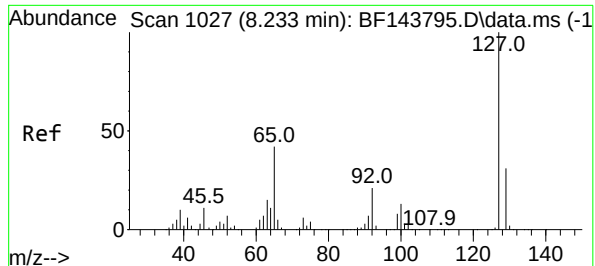
Ion Ratio Lower Upper

122 100

105 121.2 103.7 143.7

77 99.9 78.8 118.8





#33

4-Chloroaniline

Concen: 38.630 ng

RT: 8.234 min Scan# 1027

Delta R.T. -0.006 min

Lab File: BF143802.D

Acq: 25 Sep 2025 13:06

Instrument :

BNA\_F

ClientSampleId :

SSTDCCC040

Tgt Ion:127 Resp: 226064

Ion Ratio Lower Upper

127 100

129 32.1 25.4 38.2

65 41.6 33.4 50.2

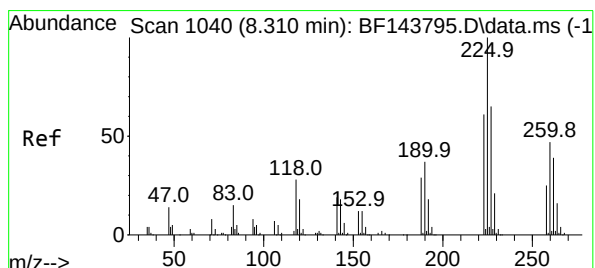
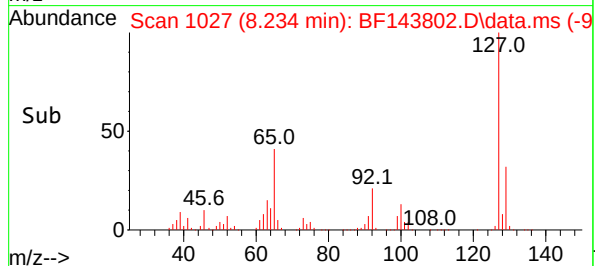
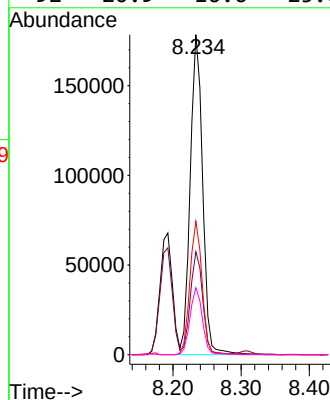
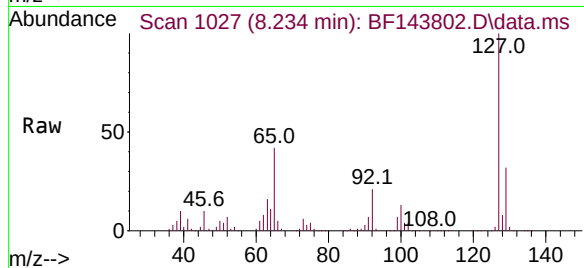
92 20.9 16.6 25.0

Manual Integrations

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Reviewed By :Rahul Chavli 09/26/2025

Supervised By :Jagrut Upadhyay 09/26/2025



#34

Hexachlorobutadiene

Concen: 41.718 ng

RT: 8.310 min Scan# 1040

Delta R.T. 0.000 min

Lab File: BF143802.D

Acq: 25 Sep 2025 13:06

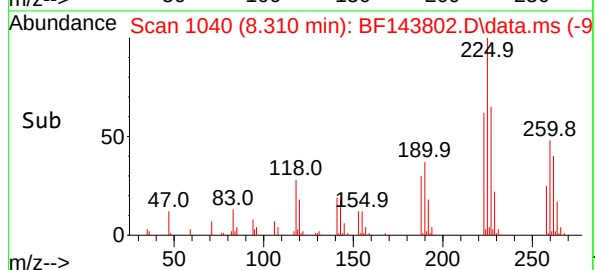
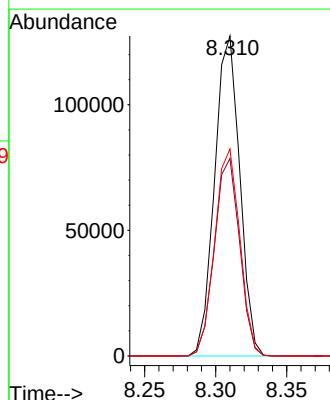
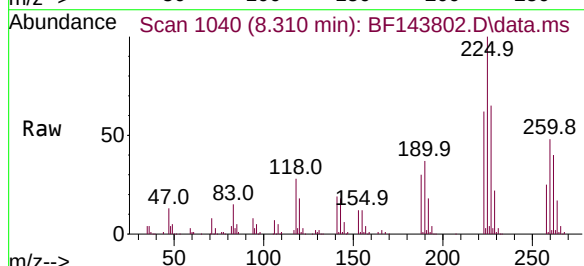
Tgt Ion:225 Resp: 157190

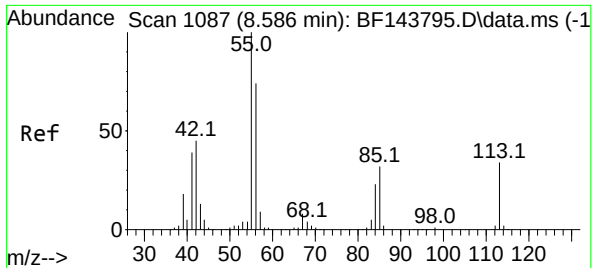
Ion Ratio Lower Upper

225 100

223 61.7 48.6 72.8

227 64.7 51.9 77.9





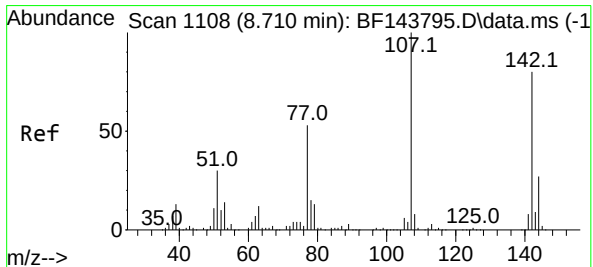
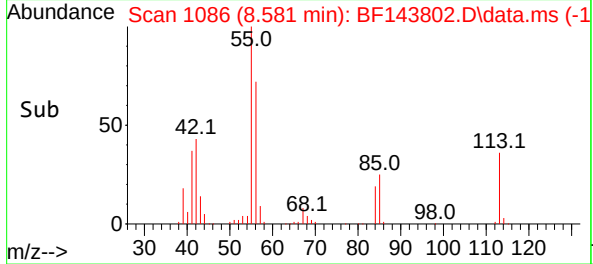
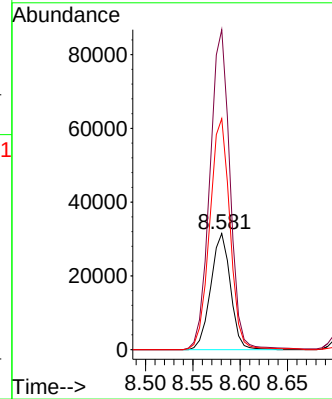
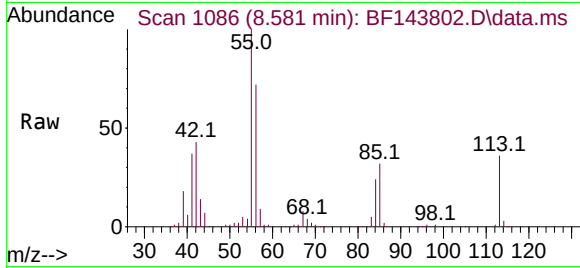
#35  
 Caprolactam  
 Concen: 36.642 ng  
 RT: 8.581 min Scan# 1086  
 Delta R.T. -0.029 min  
 Lab File: BF143802.D  
 Acq: 25 Sep 2025 13:06

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SSTDCCC040

Tgt Ion:113 Resp: 45615  
 Ion Ratio Lower Upper  
 113 100  
 55 275.7 271.7 311.7  
 56 199.0 194.5 234.5

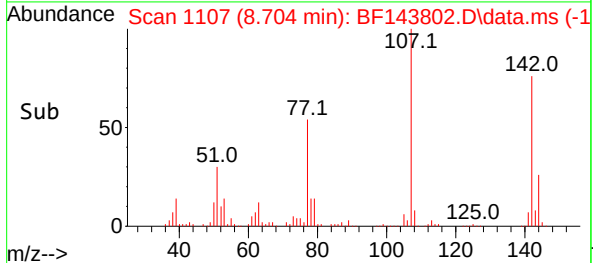
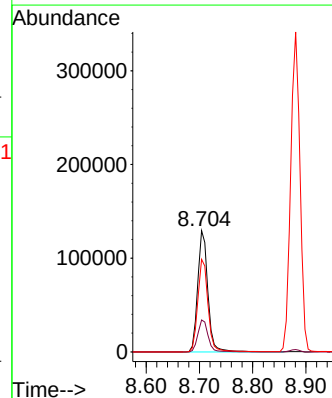
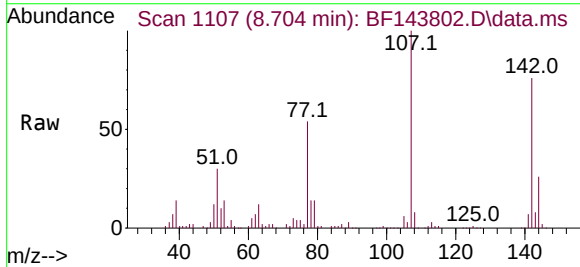
Manual Integrations  
 APPROVED

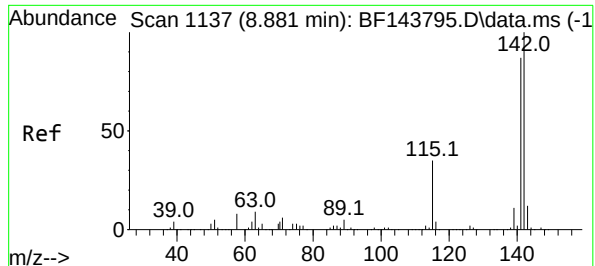
Reviewed By :Rahul Chavli 09/26/2025  
 Supervised By :Jagrut Upadhyay 09/26/2025



#36  
 4-Chloro-3-methylphenol  
 Concen: 37.652 ng  
 RT: 8.704 min Scan# 1107  
 Delta R.T. -0.006 min  
 Lab File: BF143802.D  
 Acq: 25 Sep 2025 13:06

Tgt Ion:107 Resp: 171987  
 Ion Ratio Lower Upper  
 107 100  
 144 26.4 21.8 32.8  
 142 76.5 63.6 95.4





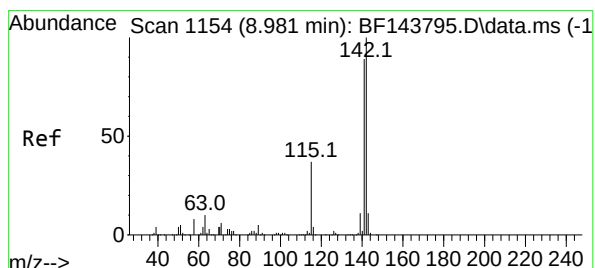
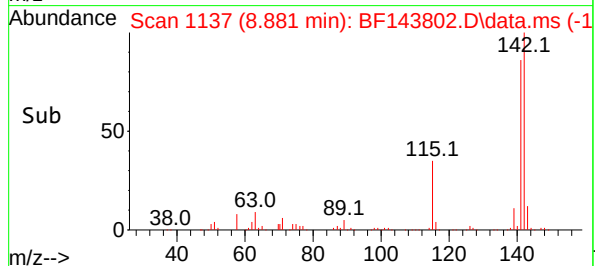
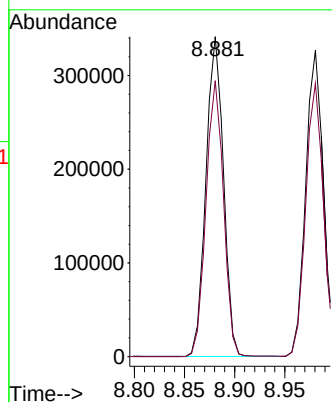
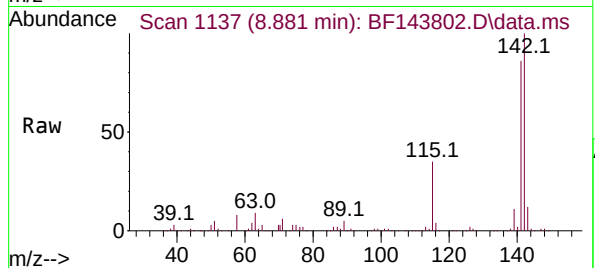
#37  
2-Methylnaphthalene  
Concen: 38.990 ng  
RT: 8.881 min Scan# 1137  
Delta R.T. 0.000 min  
Lab File: BF143802.D  
Acq: 25 Sep 2025 13:06

Instrument :  
BNA\_F  
ClientSampleId :  
SSTDCCC040

Tgt Ion:142 Resp: 41401  
Ion Ratio Lower Upper  
142 100  
141 86.2 69.4 104.0

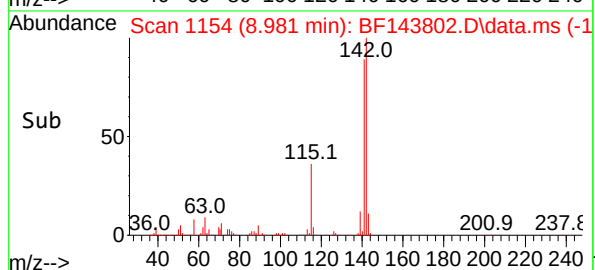
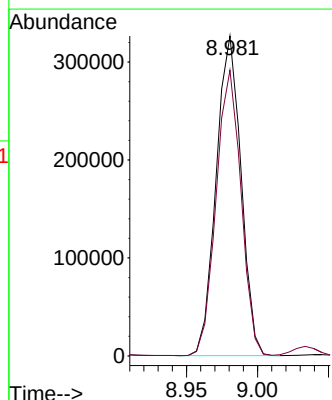
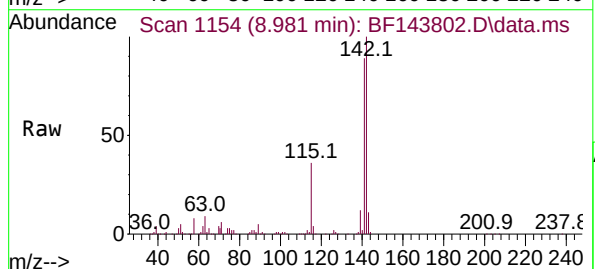
Manual Integrations  
APPROVED

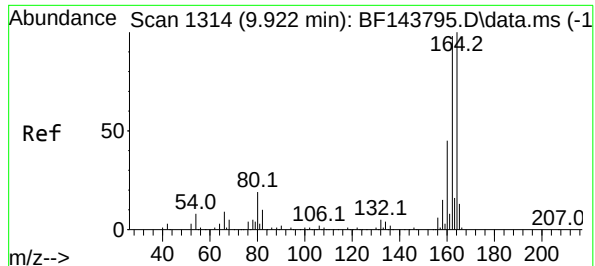
Reviewed By :Rahul Chavli 09/26/2025  
Supervised By :Jagrut Upadhyay 09/26/2025



#38  
1-Methylnaphthalene  
Concen: 39.098 ng  
RT: 8.981 min Scan# 1154  
Delta R.T. 0.000 min  
Lab File: BF143802.D  
Acq: 25 Sep 2025 13:06

Tgt Ion:142 Resp: 397377  
Ion Ratio Lower Upper  
142 100  
141 89.3 71.1 106.7





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.922 min Scan# 1314

Delta R.T. -0.006 min

Lab File: BF143802.D

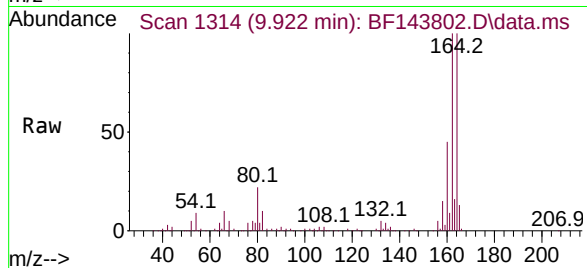
Acq: 25 Sep 2025 13:06

Instrument :

BNA\_F

ClientSampleId :

SSTDCCC040



Tgt Ion:164 Resp: 153714

Ion Ratio Lower Upper

164 100

162 100.0 78.8 118.2

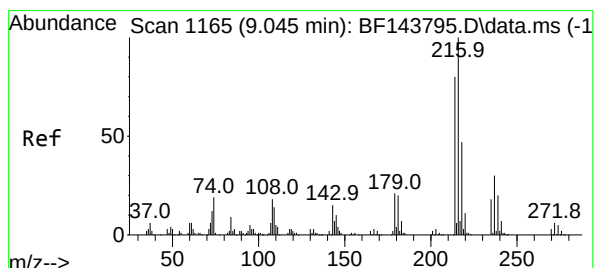
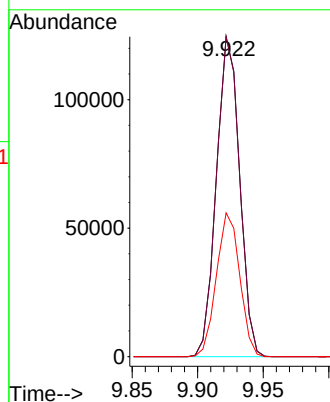
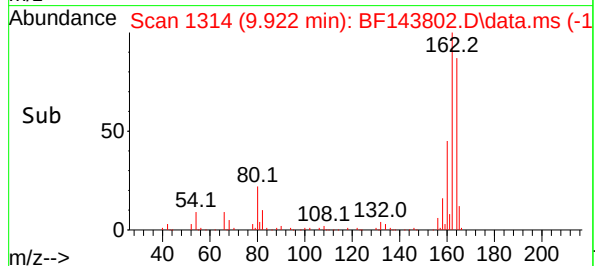
160 44.9 35.8 53.6

Manual Integrations

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Reviewed By :Rahul Chavli 09/26/2025

Supervised By :Jagrut Upadhyay 09/26/2025



#40

1,2,4,5-Tetrachlorobenzene

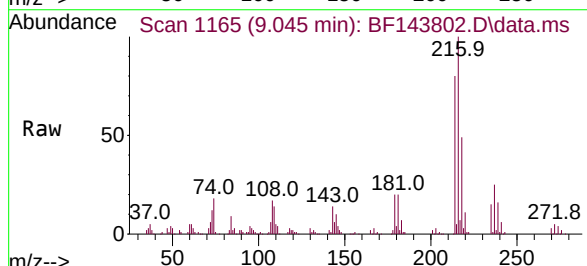
Concen: 43.382 ng

RT: 9.045 min Scan# 1165

Delta R.T. -0.006 min

Lab File: BF143802.D

Acq: 25 Sep 2025 13:06



Tgt Ion:216 Resp: 201243

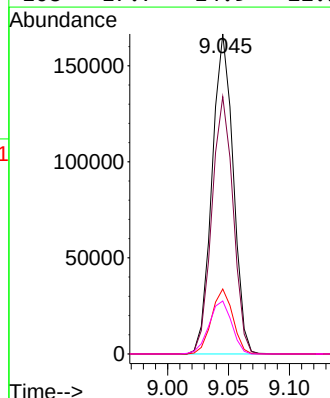
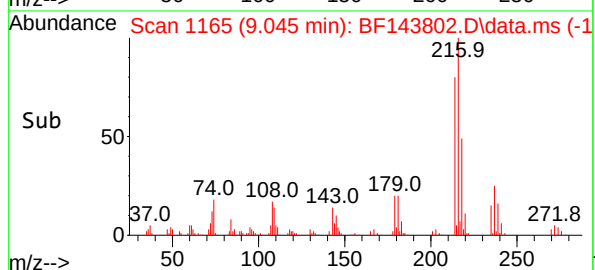
Ion Ratio Lower Upper

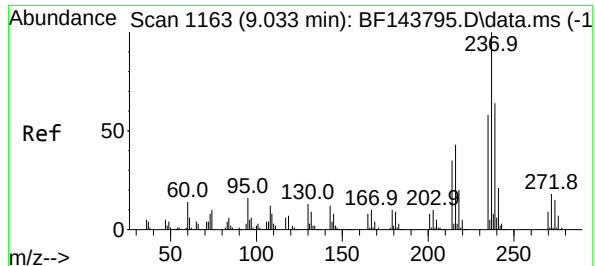
216 100

214 80.6 63.7 95.5

179 20.3 16.5 24.7

108 17.7 14.9 22.3





#41

Hexachlorocyclopentadiene

Concen: 42.650 ng

RT: 9.033 min Scan# 1163

Delta R.T. -0.006 min

Lab File: BF143802.D

Acq: 25 Sep 2025 13:06

Instrument :

BNA\_F

ClientSampleId :

SSTDCCC040

Tgt Ion:237 Resp: 125390

Ion Ratio Lower Upper

237 100

235 58.6 38.1 78.1

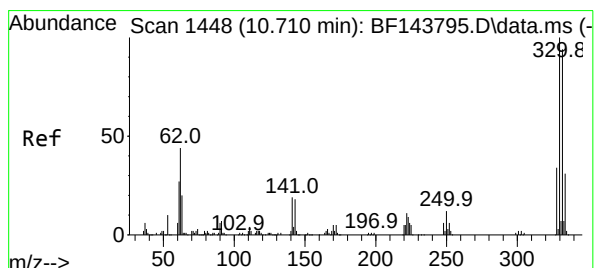
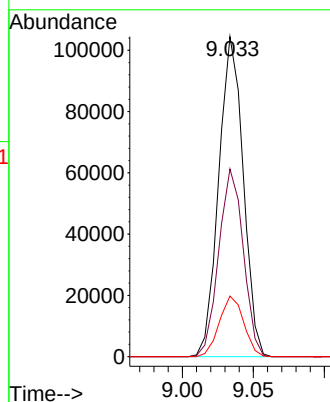
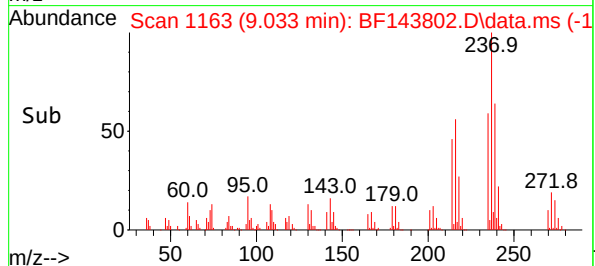
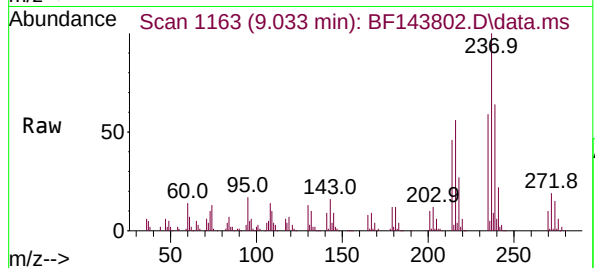
272 18.9 0.0 37.9

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/26/2025

Supervised By :Jagrut Upadhyay 09/26/2025



#42

2,4,6-Tribromophenol

Concen: 87.487 ng

RT: 10.710 min Scan# 1448

Delta R.T. -0.006 min

Lab File: BF143802.D

Acq: 25 Sep 2025 13:06

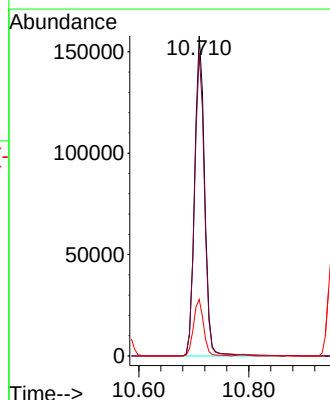
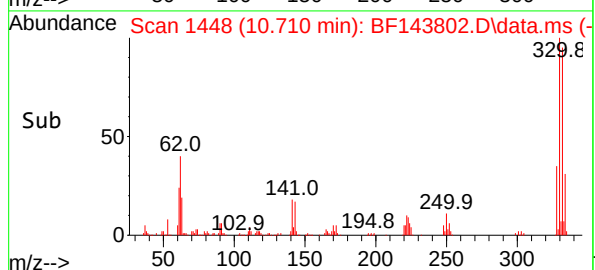
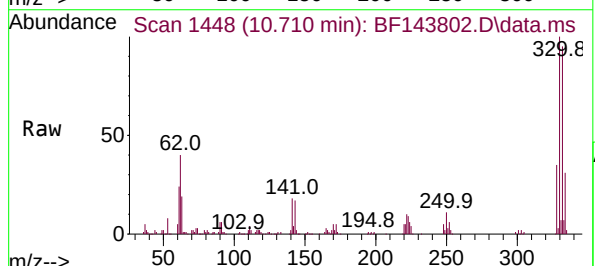
Tgt Ion:330 Resp: 199120

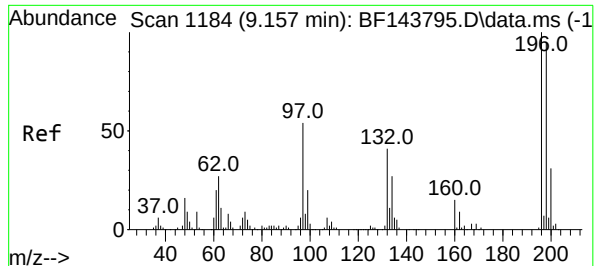
Ion Ratio Lower Upper

330 100

332 94.9 74.7 112.1

141 17.7 14.3 21.5





#43

2,4,6-Trichlorophenol

Concen: 44.230 ng

RT: 9.151 min Scan# 1184

Delta R.T. -0.006 min

Lab File: BF143802.D

Acq: 25 Sep 2025 13:06

Instrument :

BNA\_F

ClientSampleId :

SSTDCCC040

Tgt Ion:196 Resp: 128472

Ion Ratio Lower Upper

196 100

198 92.6 76.2 114.2

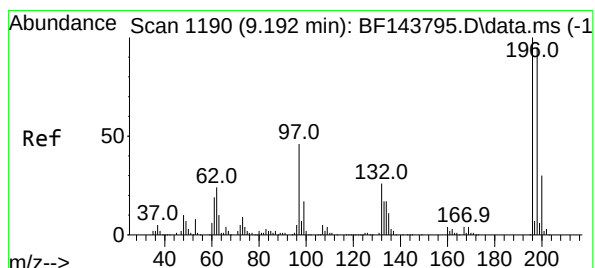
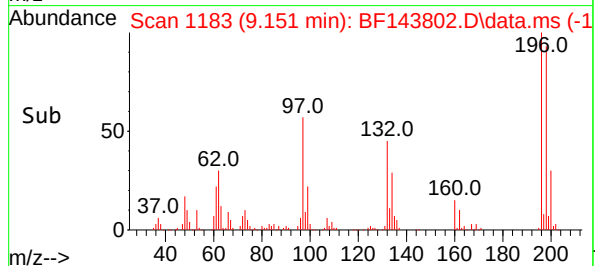
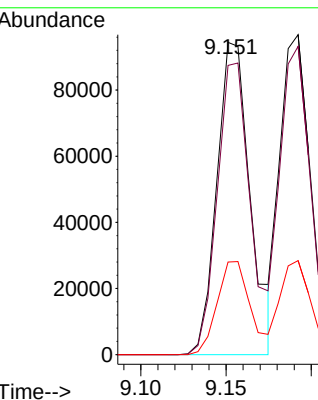
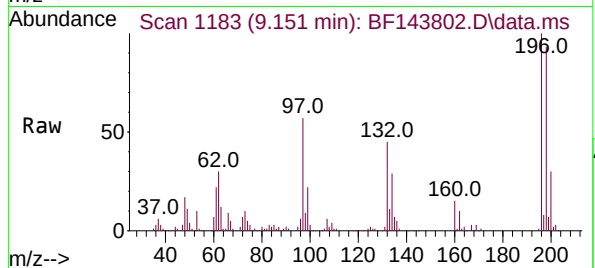
200 29.6 24.7 37.1

Manual Integrations

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Reviewed By :Rahul Chavli 09/26/2025

Supervised By :Jagrut Upadhyay 09/26/2025



#44

2,4,5-Trichlorophenol

Concen: 40.809 ng

RT: 9.192 min Scan# 1190

Delta R.T. 0.000 min

Lab File: BF143802.D

Acq: 25 Sep 2025 13:06

Tgt Ion:196 Resp: 123986

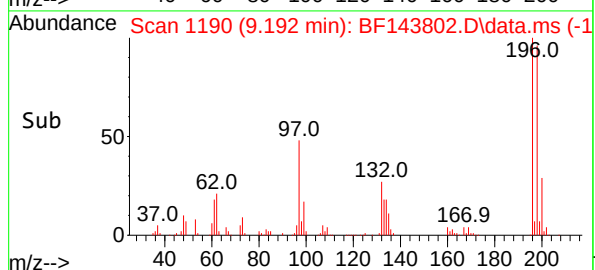
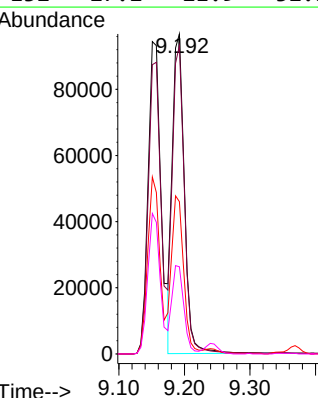
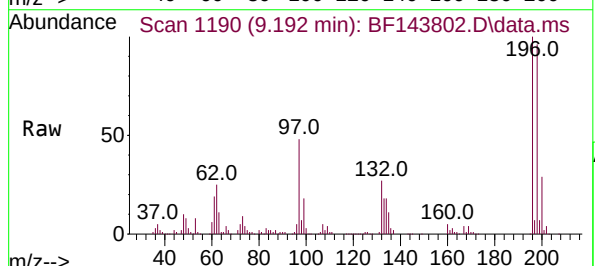
Ion Ratio Lower Upper

196 100

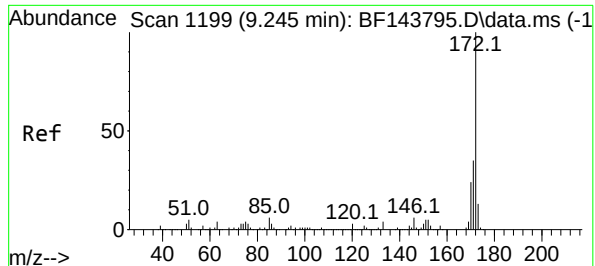
198 96.3 75.9 113.9

97 47.6 38.3 57.5

132 27.2 21.9 32.9







#45

2-Fluorobiphenyl

Concen: 86.957 ng

RT: 9.245 min Scan# 1199

Delta R.T. 0.000 min

Lab File: BF143802.D

Acq: 25 Sep 2025 13:06

Instrument :

BNA\_F

ClientSampleId :

SSTDCCC040

Tgt Ion:172 Resp: 856559

Ion Ratio Lower Upper

172 100

171 34.8 27.9 41.9

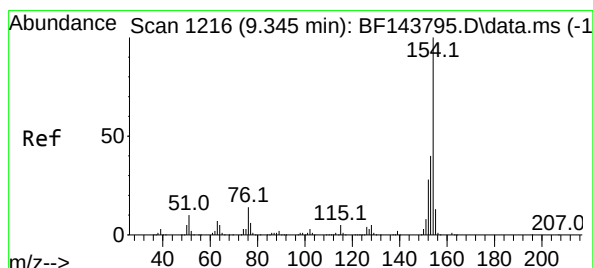
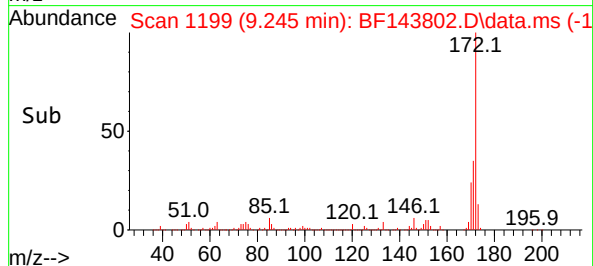
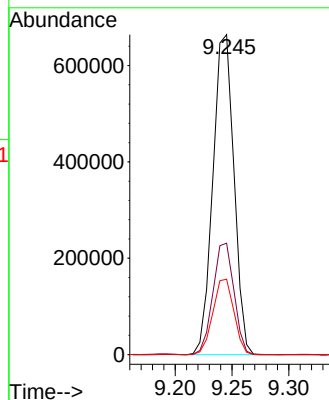
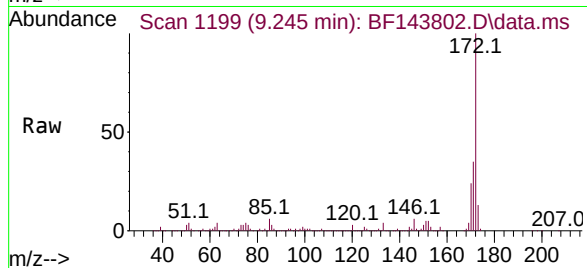
170 23.6 19.1 28.7

Manual Integrations

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Reviewed By :Rahul Chavli 09/26/2025

Supervised By :Jagrut Upadhyay 09/26/2025



#46

1,1'-Biphenyl

Concen: 42.097 ng

RT: 9.345 min Scan# 1216

Delta R.T. 0.000 min

Lab File: BF143802.D

Acq: 25 Sep 2025 13:06

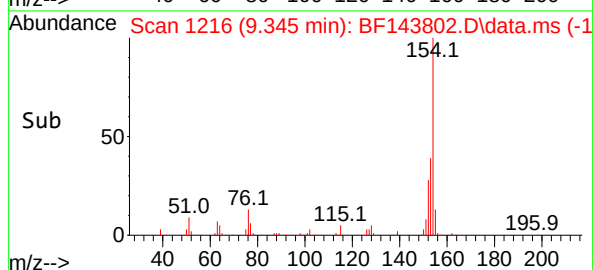
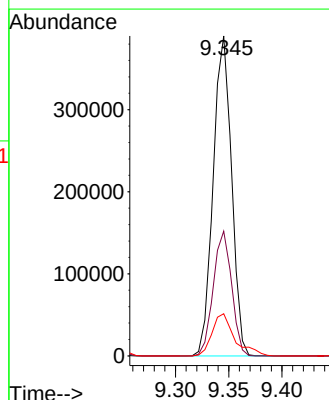
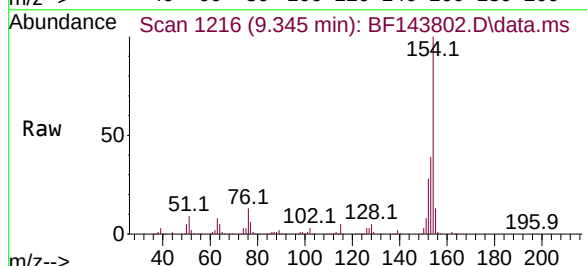
Tgt Ion:154 Resp: 468412

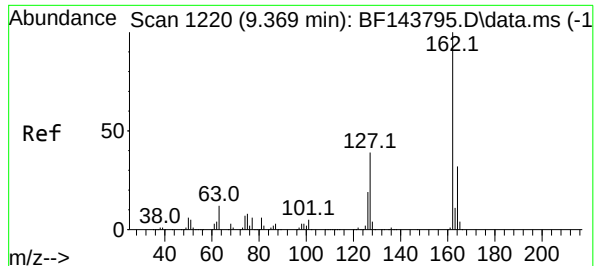
Ion Ratio Lower Upper

154 100

153 39.0 19.7 59.7

76 13.2 0.0 33.8





#47

2-Chloronaphthalene

Concen: 42.329 ng

RT: 9.369 min Scan# 1220

Delta R.T. -0.006 min

Lab File: BF143802.D

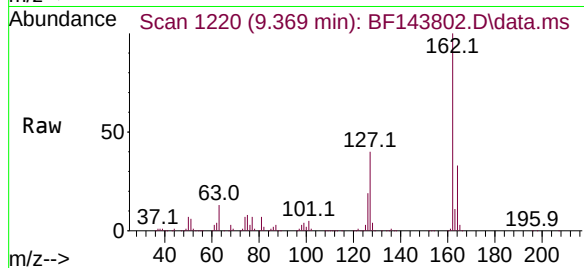
Acq: 25 Sep 2025 13:06

Instrument :

BNA\_F

ClientSampleId :

SSTDCCC040



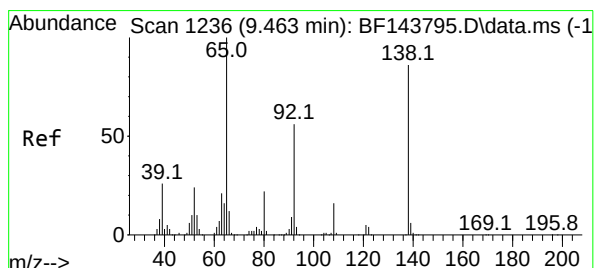
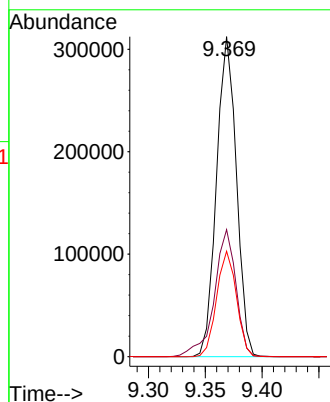
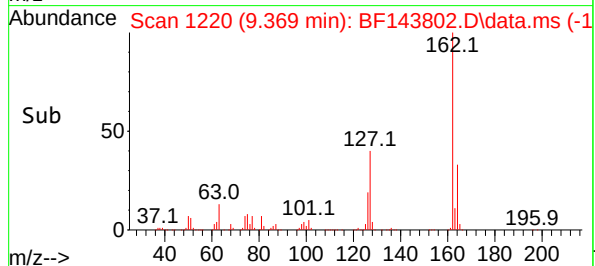
| Tgt Ion:  | 162  | Resp: | 379129 |
|-----------|------|-------|--------|
| Ion Ratio | 100  | Lower | Upper  |
| 162       | 100  |       |        |
| 127       | 39.7 | 31.5  | 47.3   |
| 164       | 32.9 | 25.9  | 38.9   |

Manual Integrations

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Reviewed By :Rahul Chavli 09/26/2025

Supervised By :Jagrut Upadhyay 09/26/2025



#48

2-Nitroaniline

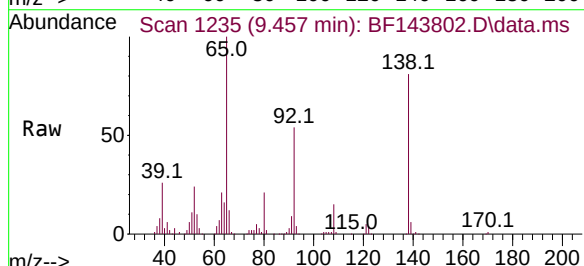
Concen: 43.977 ng

RT: 9.457 min Scan# 1235

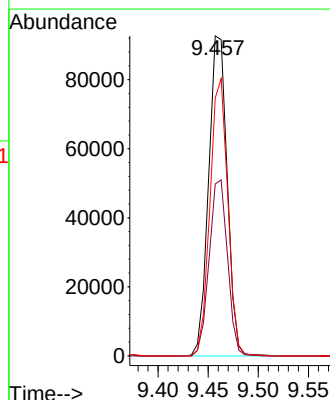
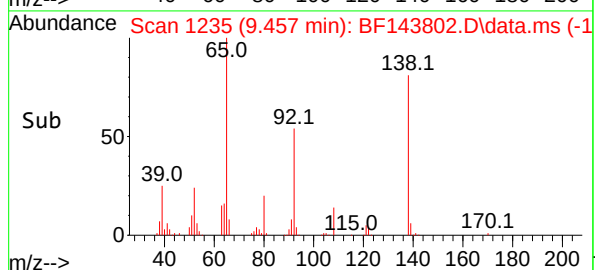
Delta R.T. -0.006 min

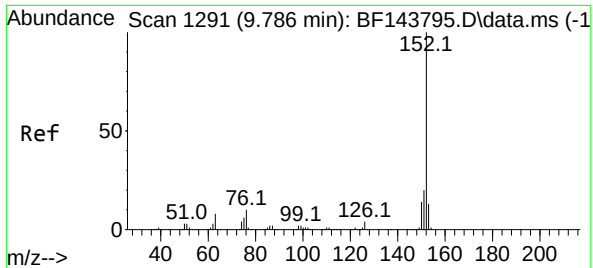
Lab File: BF143802.D

Acq: 25 Sep 2025 13:06



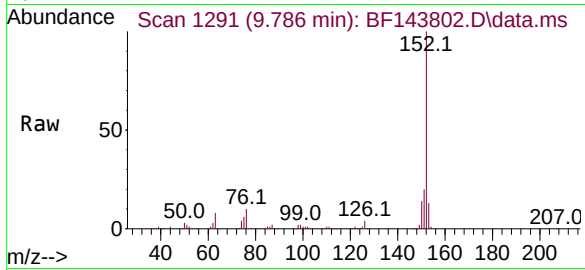
| Tgt Ion:  | 65   | Resp: | 119048 |
|-----------|------|-------|--------|
| Ion Ratio | 100  | Lower | Upper  |
| 65        | 100  |       |        |
| 92        | 53.7 | 44.9  | 67.3   |
| 138       | 80.6 | 69.0  | 103.4  |





#49  
Acenaphthylene  
Concen: 41.866 ng  
RT: 9.786 min Scan# 1291  
Delta R.T. 0.000 min  
Lab File: BF143802.D  
Acq: 25 Sep 2025 13:06

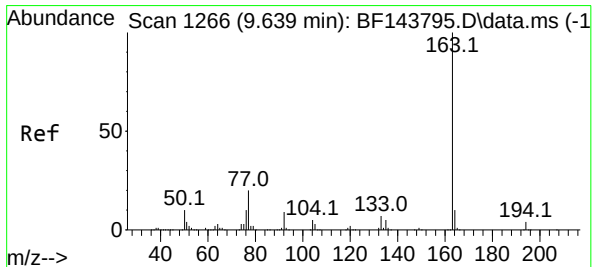
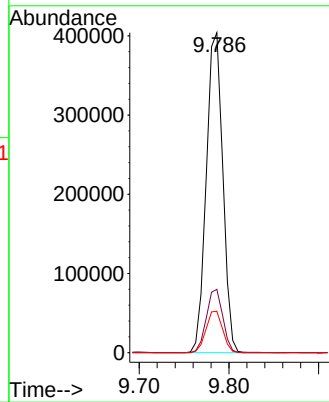
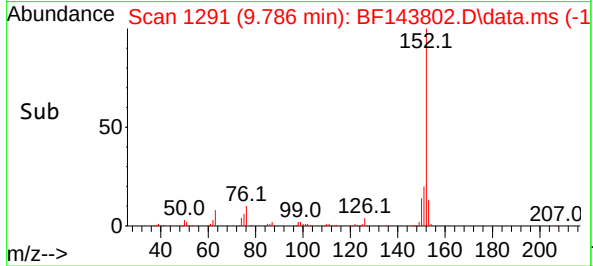
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDCCC040



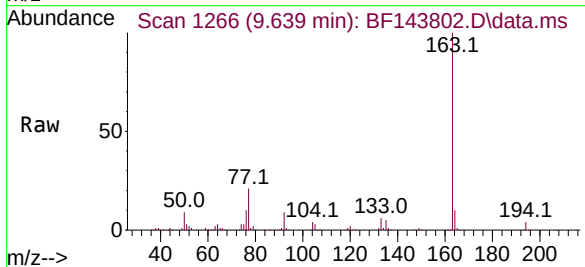
Tgt Ion:152 Resp: 516213  
Ion Ratio Lower Upper  
152 100  
151 19.8 15.7 23.5  
153 12.9 10.6 15.8

Manual Integrations  
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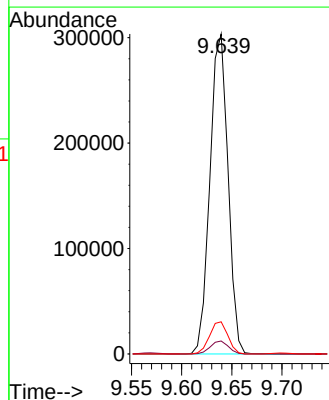
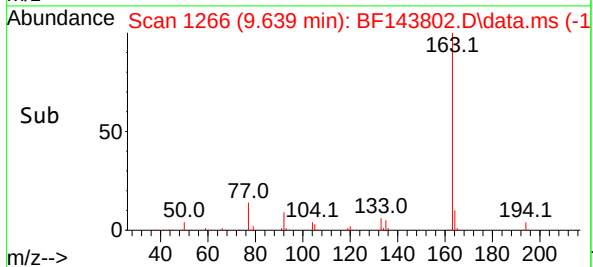
Reviewed By :Rahul Chavli 09/26/2025  
Supervised By :Jagrut Upadhyay 09/26/2025

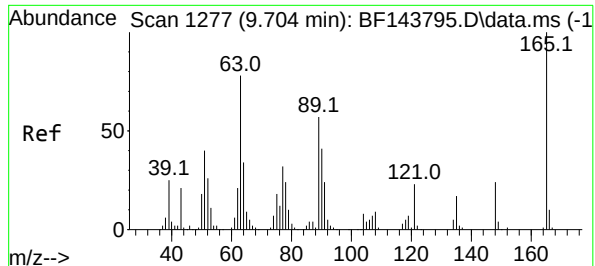


#50  
Dimethylphthalate  
Concen: 40.564 ng  
RT: 9.639 min Scan# 1266  
Delta R.T. 0.000 min  
Lab File: BF143802.D  
Acq: 25 Sep 2025 13:06



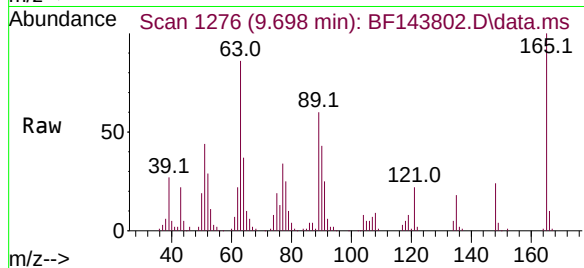
Tgt Ion:163 Resp: 380041  
Ion Ratio Lower Upper  
163 100  
194 4.1 3.0 4.6  
164 10.1 8.2 12.2





#51  
2,6-Dinitrotoluene  
Concen: 43.168 ng  
RT: 9.698 min Scan# 1276  
Delta R.T. -0.006 min  
Lab File: BF143802.D  
Acq: 25 Sep 2025 13:06

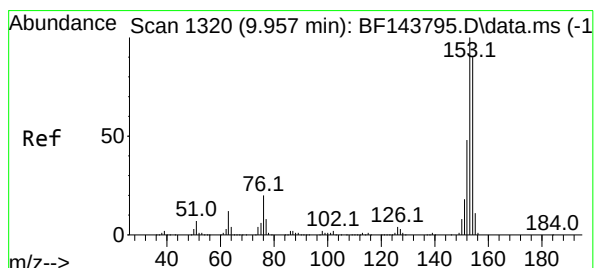
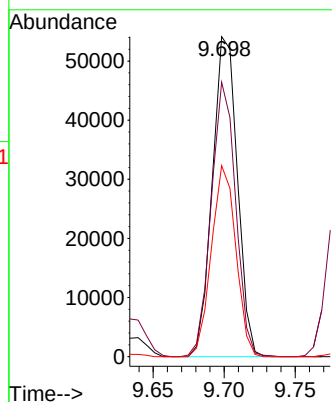
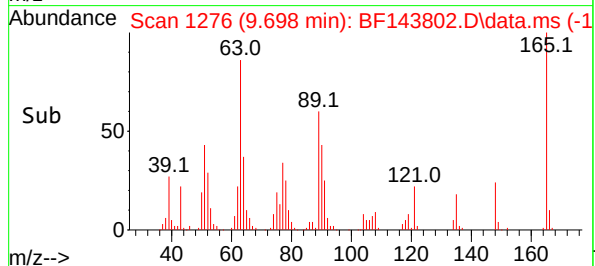
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDCCC040



Tgt Ion:165 Resp: 66448  
Ion Ratio Lower Upper  
165 100  
63 85.8 62.6 94.0  
89 59.7 45.2 67.8

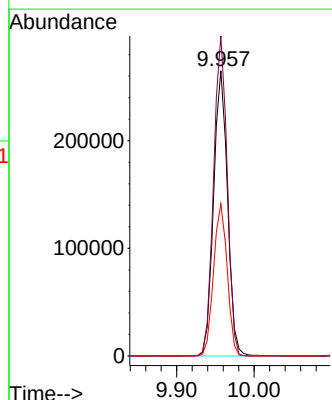
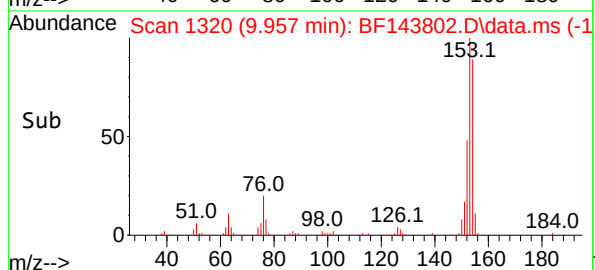
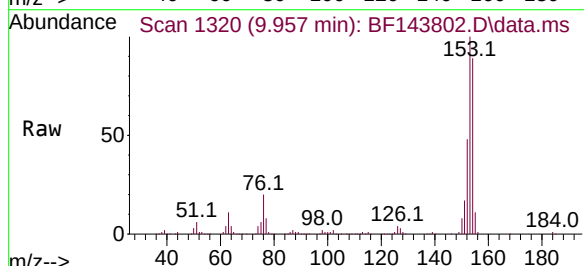
Manual Integrations  
APPROVED

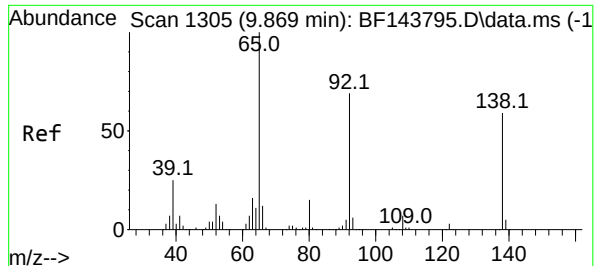
Reviewed By :Rahul Chavli 09/26/2025  
Supervised By :Jagrut Upadhyay 09/26/2025



#52  
Acenaphthene  
Concen: 40.912 ng  
RT: 9.957 min Scan# 1320  
Delta R.T. -0.006 min  
Lab File: BF143802.D  
Acq: 25 Sep 2025 13:06

Tgt Ion:154 Resp: 331958  
Ion Ratio Lower Upper  
154 100  
153 112.2 88.7 133.1  
152 53.3 42.7 64.1





#53

3-Nitroaniline

Concen: 44.387 ng

RT: 9.869 min Scan# 1305

Delta R.T. -0.006 min

Lab File: BF143802.D

Acq: 25 Sep 2025 13:06

Instrument :

BNA\_F

ClientSampleId :

SSTDCCC040

Tgt Ion:138 Resp: 82818

Ion Ratio Lower Upper

138 100

108 12.1 9.9 14.9

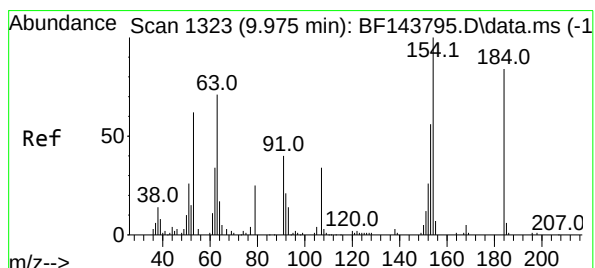
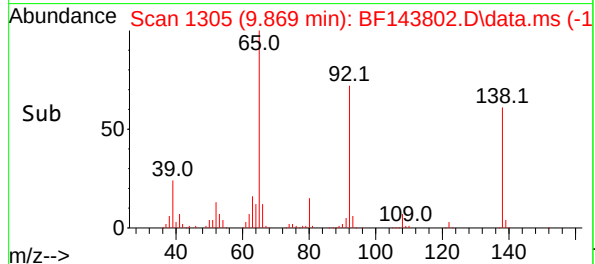
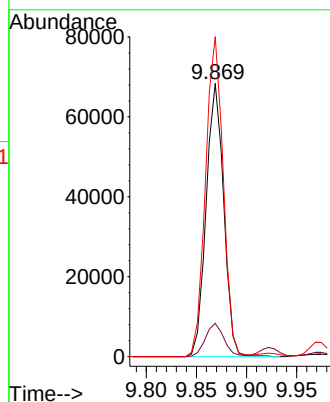
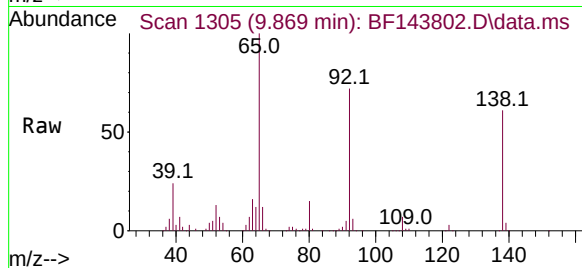
92 117.1 93.5 140.3

Manual Integrations

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Reviewed By :Rahul Chavli 09/26/2025

Supervised By :Jagrut Upadhyay 09/26/2025



#54

2,4-Dinitrophenol

Concen: 37.264 ng

RT: 9.975 min Scan# 1323

Delta R.T. -0.000 min

Lab File: BF143802.D

Acq: 25 Sep 2025 13:06

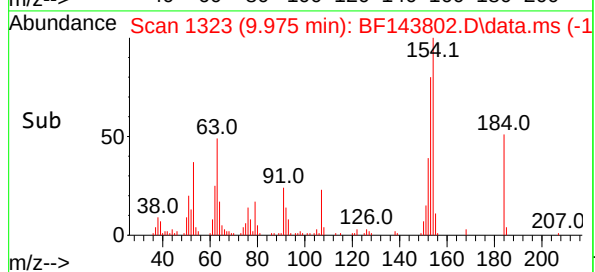
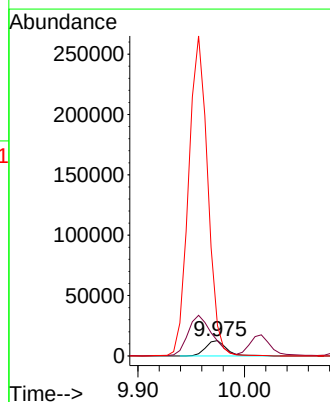
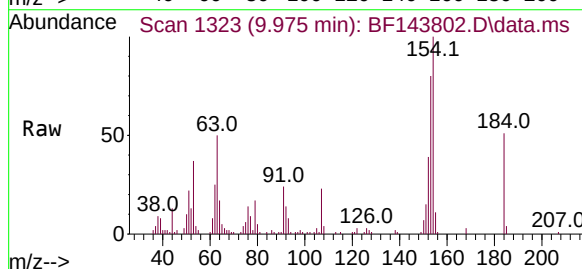
Tgt Ion:184 Resp: 16803

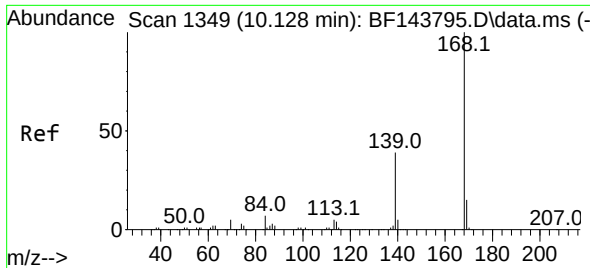
Ion Ratio Lower Upper

184 100

63 97.7 84.6 127.0

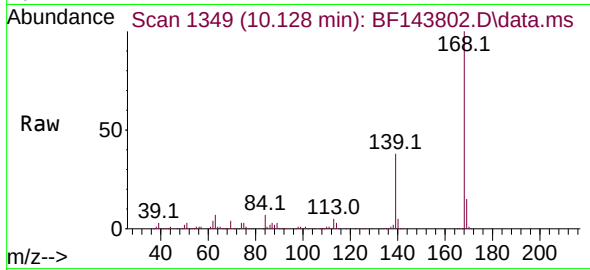
154 197.4 199.3 298.9#





#55  
Dibenzenofuran  
Concen: 41.881 ng  
RT: 10.128 min Scan# 1349  
Delta R.T. -0.006 min  
Lab File: BF143802.D  
Acq: 25 Sep 2025 13:06

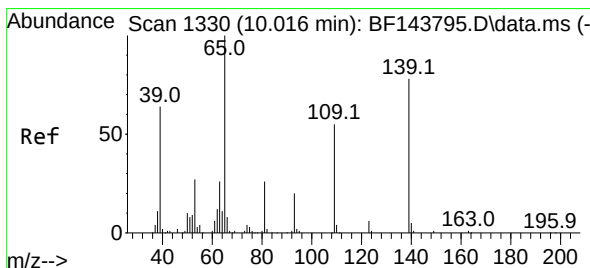
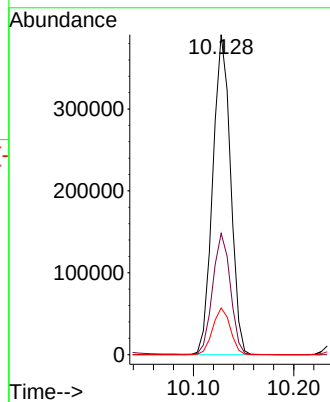
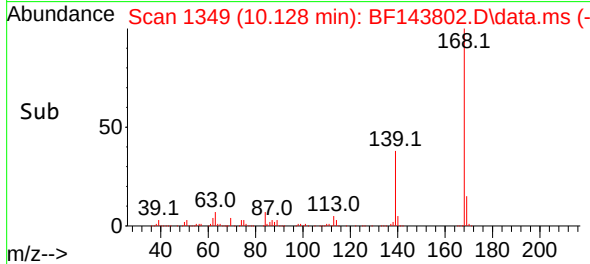
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDCCC040



Tgt Ion:168 Resp: 480540  
Ion Ratio Lower Upper  
168 100  
139 37.9 31.0 46.6  
169 14.6 11.9 17.9

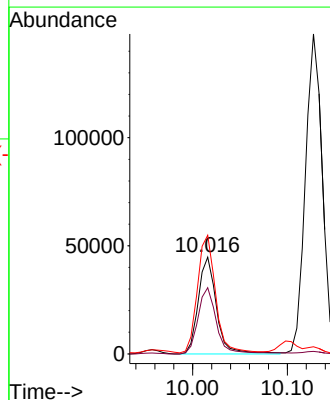
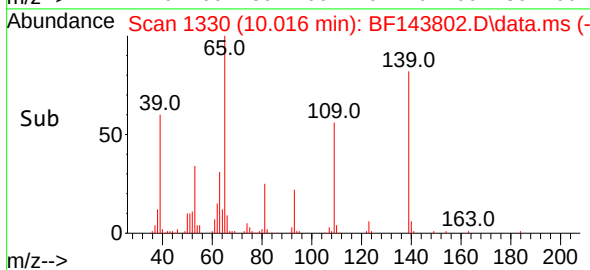
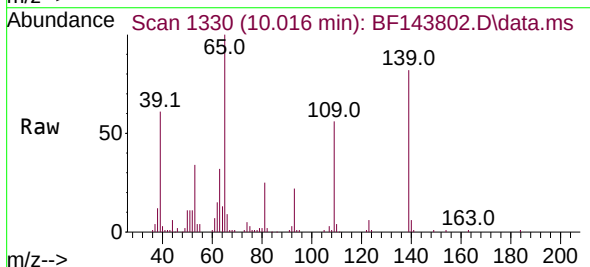
Manual Integrations  
APPROVED

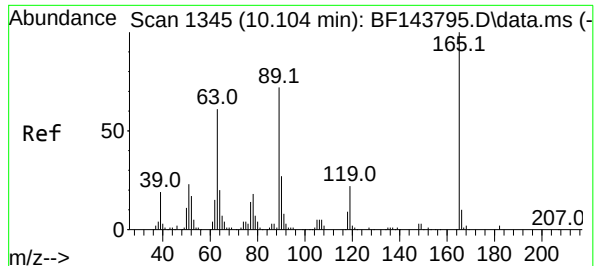
Reviewed By :Rahul Chavli 09/26/2025  
Supervised By :Jagrut Upadhyay 09/26/2025



#56  
4-Nitrophenol  
Concen: 39.668 ng  
RT: 10.016 min Scan# 1330  
Delta R.T. -0.006 min  
Lab File: BF143802.D  
Acq: 25 Sep 2025 13:06

Tgt Ion:139 Resp: 59642  
Ion Ratio Lower Upper  
139 100  
109 68.5 50.2 90.2  
65 122.6 109.2 149.2





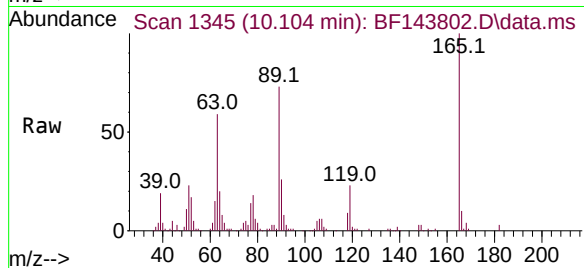
#57  
2,4-Dinitrotoluene  
Concen: 38.763 ng  
RT: 10.104 min Scan# 1345  
Delta R.T. -0.006 min  
Lab File: BF143802.D  
Acq: 25 Sep 2025 13:06

Instrument :

BNA\_F

ClientSampleId :

SSTDCCC040

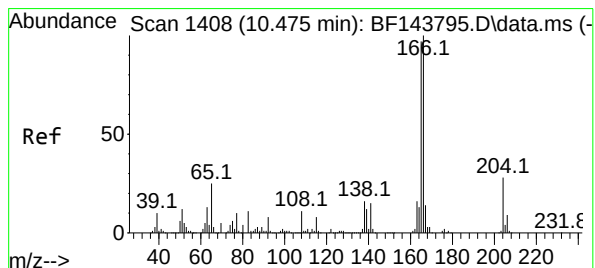
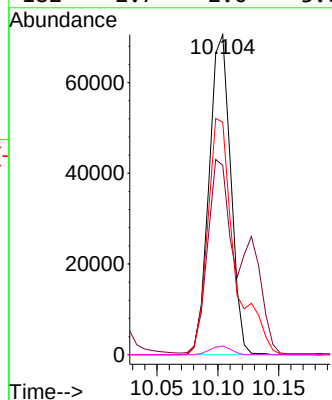
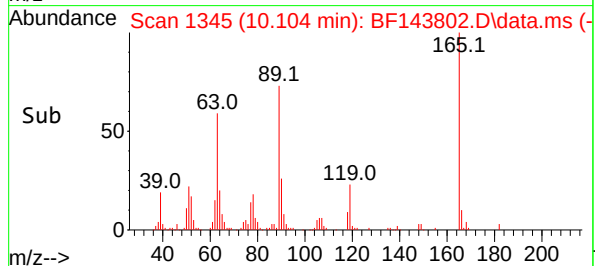


Tgt Ion:165 Resp: 87197  
Ion Ratio Lower Upper  
165 100  
63 59.1 48.9 73.3  
89 72.6 57.5 86.3  
182 2.7 2.0 3.0

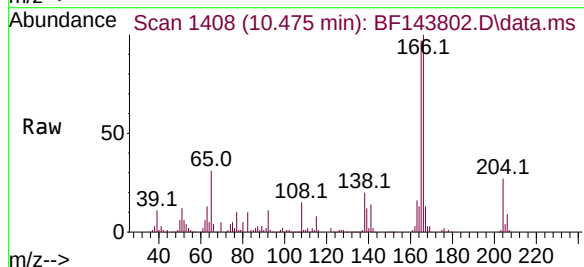
Manual Integrations

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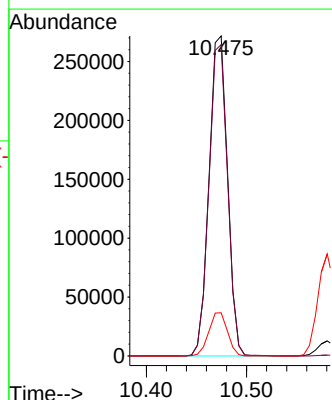
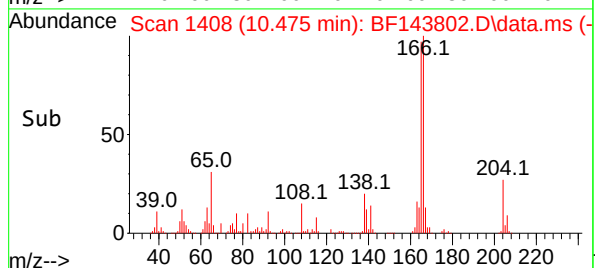
Reviewed By :Rahul Chavli 09/26/2025  
Supervised By :Jagrut Upadhyay 09/26/2025

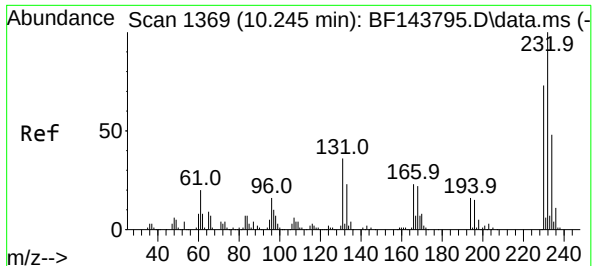


#58  
Fluorene  
Concen: 40.828 ng  
RT: 10.475 min Scan# 1408  
Delta R.T. 0.000 min  
Lab File: BF143802.D  
Acq: 25 Sep 2025 13:06



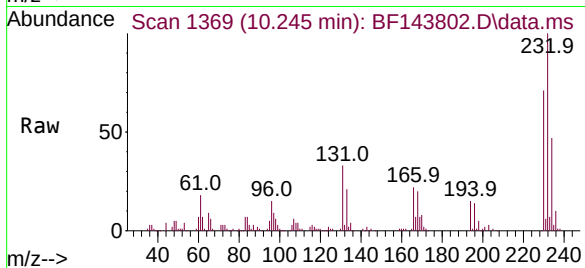
Tgt Ion:166 Resp: 348262  
Ion Ratio Lower Upper  
166 100  
165 97.3 78.0 117.0  
167 13.5 10.9 16.3





#59  
2,3,4,6-Tetrachlorophenol  
Concen: 43.386 ng  
RT: 10.245 min Scan# 1369  
Delta R.T. 0.000 min  
Lab File: BF143802.D  
Acq: 25 Sep 2025 13:06

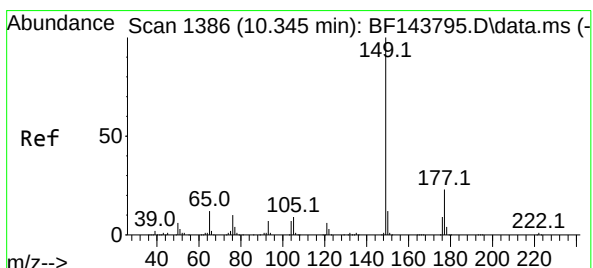
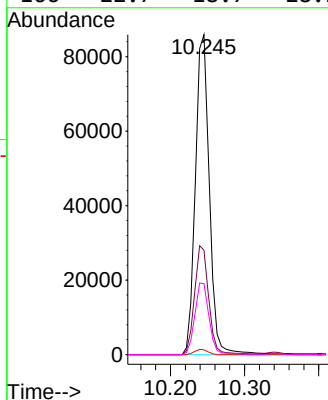
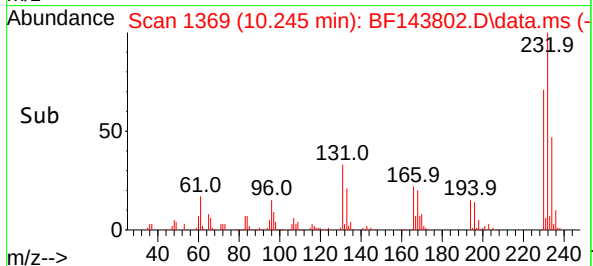
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDCCC040



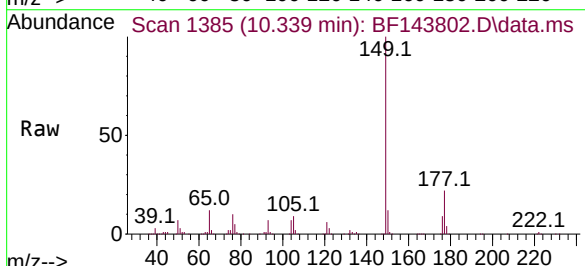
Tgt Ion:232 Resp: 112924  
Ion Ratio Lower Upper  
232 100  
131 34.4 29.4 44.2  
130 1.5 1.3 1.9  
166 22.7 18.7 28.1

Manual Integrations  
APPROVED

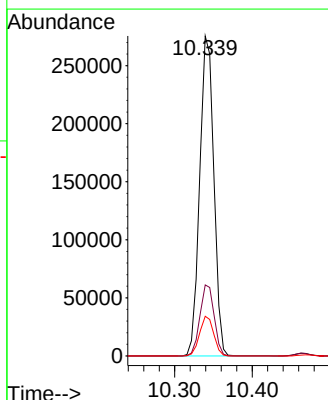
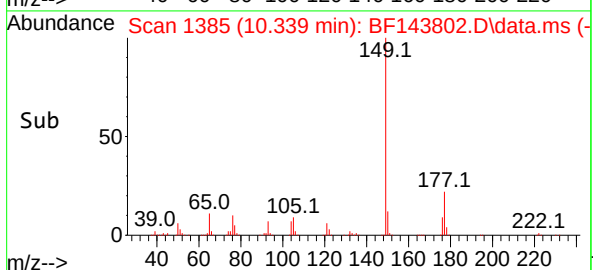
Reviewed By :Rahul Chavli 09/26/2025  
Supervised By :Jagrut Upadhyay 09/26/2025



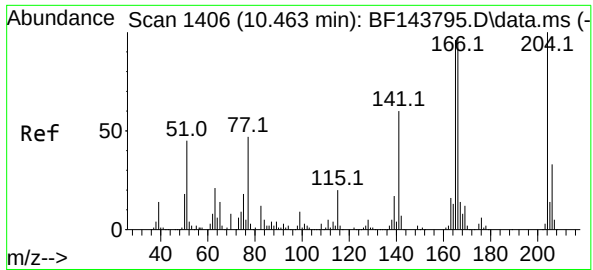
#60  
Diethylphthalate  
Concen: 39.778 ng  
RT: 10.339 min Scan# 1385  
Delta R.T. -0.006 min  
Lab File: BF143802.D  
Acq: 25 Sep 2025 13:06



Tgt Ion:149 Resp: 348861  
Ion Ratio Lower Upper  
149 100  
177 22.2 18.1 27.1  
150 12.4 9.7 14.5

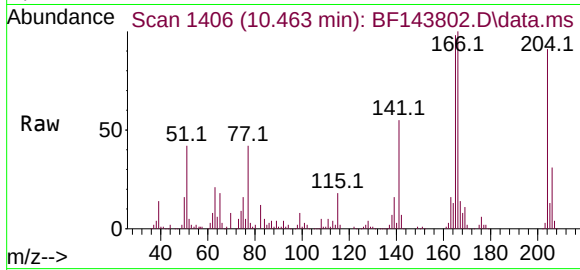






#61  
4-Chlorophenyl-phenylether  
Concen: 40.580 ng  
RT: 10.463 min Scan# 1406  
Delta R.T. -0.006 min  
Lab File: BF143802.D  
Acq: 25 Sep 2025 13:06

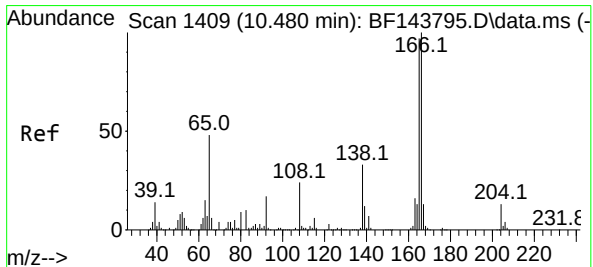
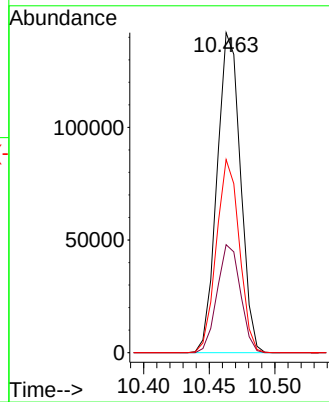
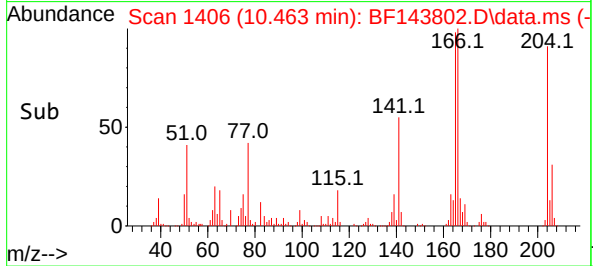
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDCCC040



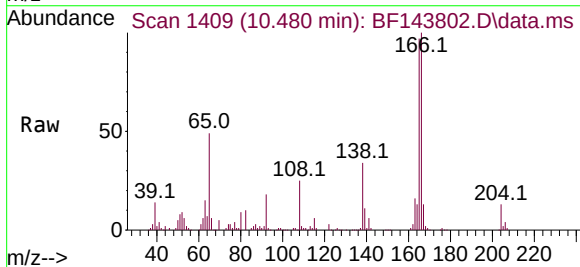
Tgt Ion:204 Resp: 176372  
Ion Ratio Lower Upper  
204 100  
206 33.7 26.7 40.1  
141 60.3 48.2 72.2

Manual Integrations  
APPROVED

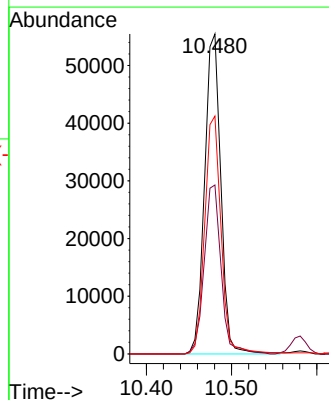
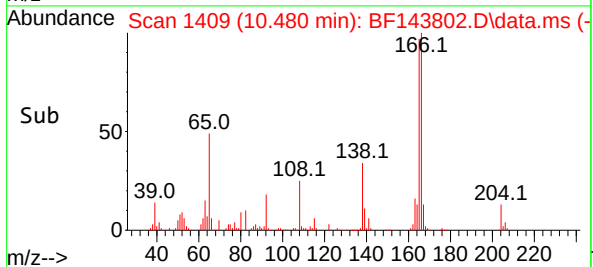
Reviewed By :Rahul Chavli 09/26/2025  
Supervised By :Jagrut Upadhyay 09/26/2025

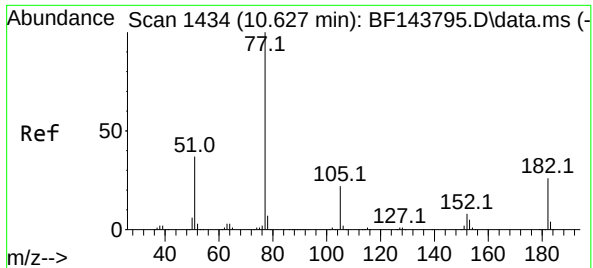


#62  
4-Nitroaniline  
Concen: 41.725 ng  
RT: 10.480 min Scan# 1409  
Delta R.T. -0.012 min  
Lab File: BF143802.D  
Acq: 25 Sep 2025 13:06



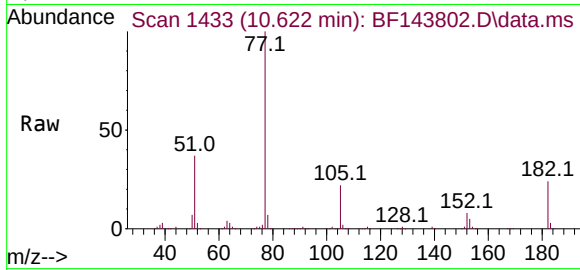
Tgt Ion:138 Resp: 73202  
Ion Ratio Lower Upper  
138 100  
92 52.8 31.5 71.5  
108 74.3 51.9 91.9





#63  
Azobenzene  
Concen: 40.321 ng  
RT: 10.622 min Scan# 1433  
Delta R.T. -0.006 min  
Lab File: BF143802.D  
Acq: 25 Sep 2025 13:06

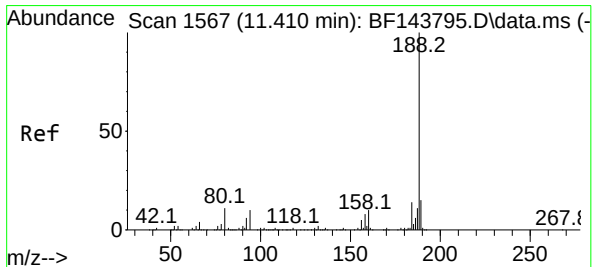
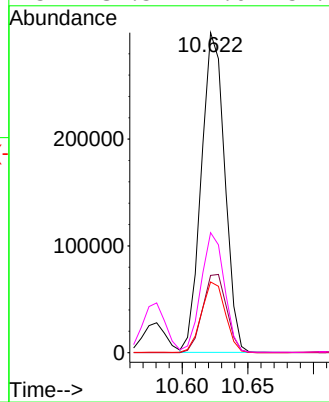
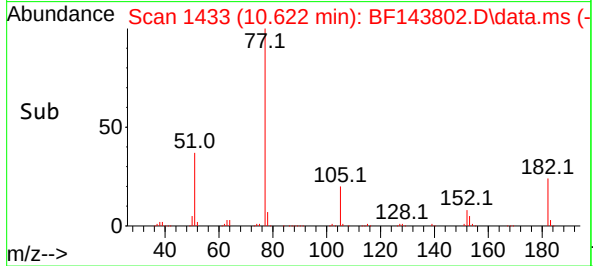
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDCCC040



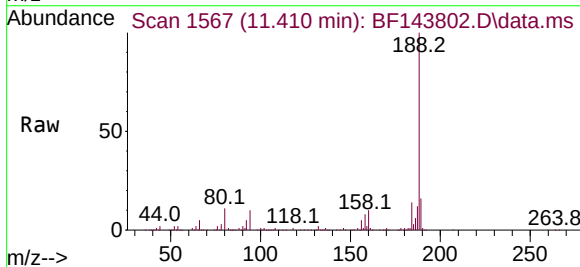
Tgt Ion: 77 Resp: 372680  
Ion Ratio Lower Upper  
77 100  
182 24.1 5.9 45.9  
105 22.1 2.3 42.3  
51 37.5 17.6 57.6

Manual Integrations  
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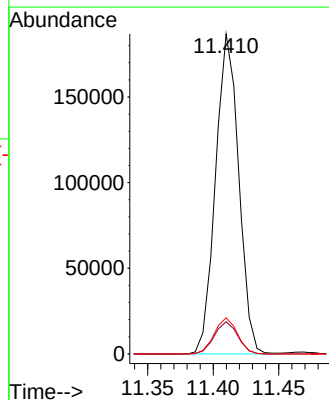
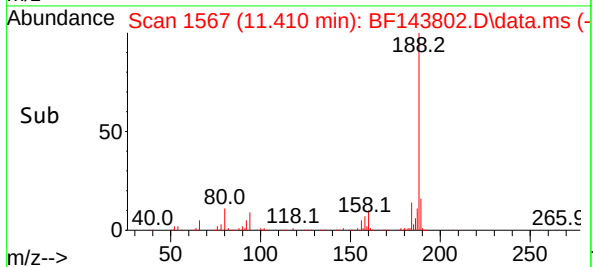
Reviewed By :Rahul Chavli 09/26/2025  
Supervised By :Jagrut Upadhyay 09/26/2025

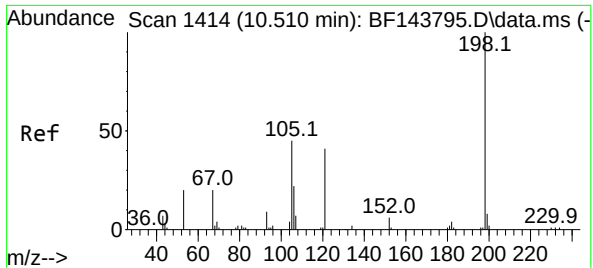


#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.410 min Scan# 1567  
Delta R.T. -0.006 min  
Lab File: BF143802.D  
Acq: 25 Sep 2025 13:06



Tgt Ion:188 Resp: 230130  
Ion Ratio Lower Upper  
188 100  
94 10.0 8.2 12.2  
80 11.3 8.6 12.8





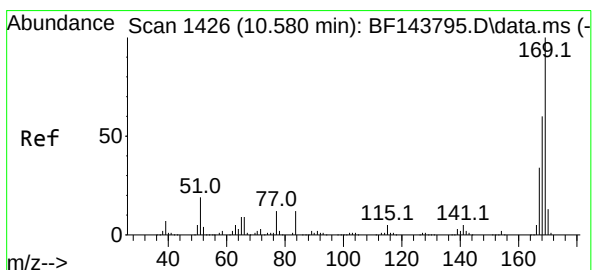
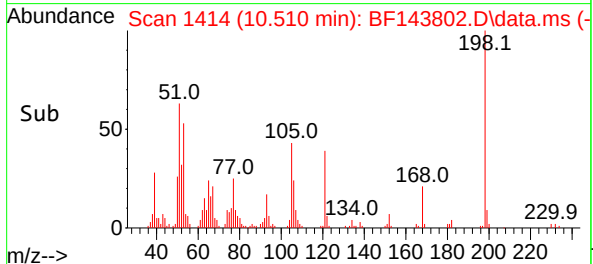
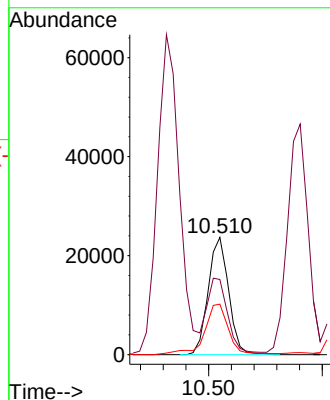
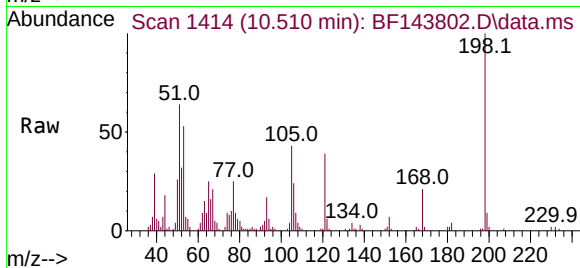
#65  
4,6-Dinitro-2-methylphenol  
Concen: 37.701 ng  
RT: 10.510 min Scan# 1414  
Delta R.T. -0.006 min  
Lab File: BF143802.D  
Acq: 25 Sep 2025 13:06

Instrument :  
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ClientSampleId :  
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Tgt Ion:198 Resp: 29506  
Ion Ratio Lower Upper  
198 100  
51 64.1 52.0 92.0  
105 43.1 27.5 67.5

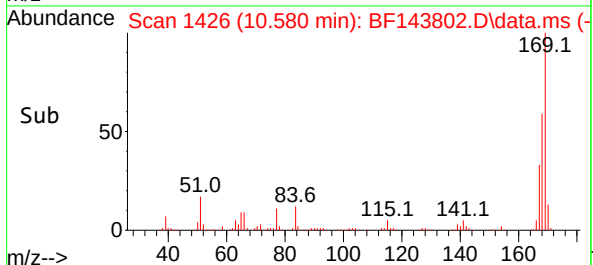
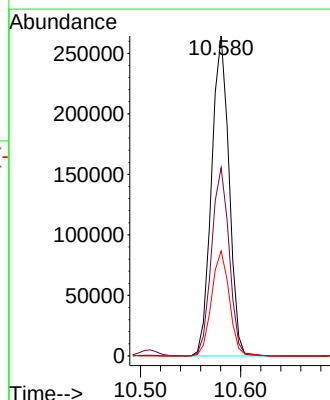
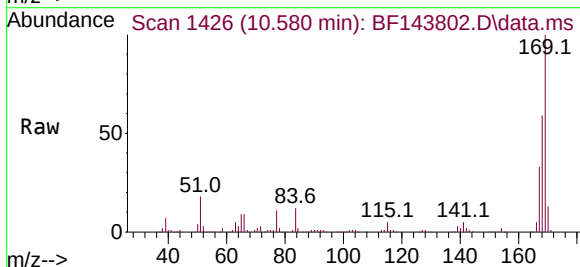
Manual Integrations  
APPROVED

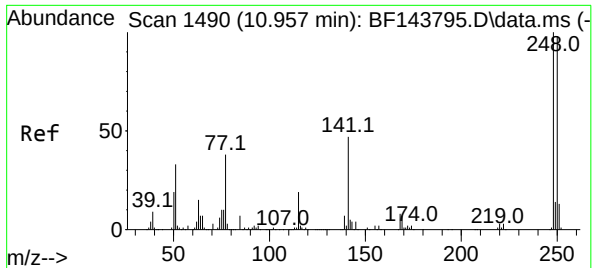
Reviewed By :Rahul Chavli 09/26/2025  
Supervised By :Jagrut Upadhyay 09/26/2025



#66  
n-Nitrosodiphenylamine  
Concen: 42.280 ng  
RT: 10.580 min Scan# 1426  
Delta R.T. -0.006 min  
Lab File: BF143802.D  
Acq: 25 Sep 2025 13:06

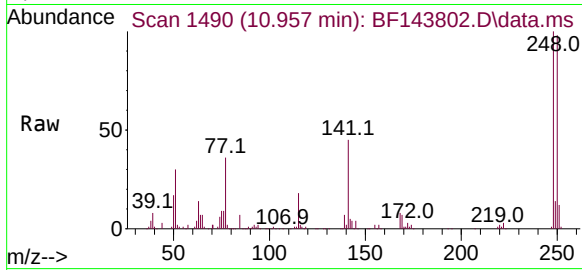
Tgt Ion:169 Resp: 319987  
Ion Ratio Lower Upper  
169 100  
168 58.8 47.9 71.9  
167 32.8 27.0 40.6





#67  
4-Bromophenyl-phenylether  
Concen: 42.519 ng  
RT: 10.957 min Scan# 1490  
Delta R.T. 0.000 min  
Lab File: BF143802.D  
Acq: 25 Sep 2025 13:06

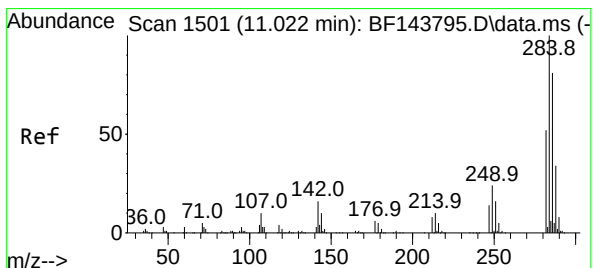
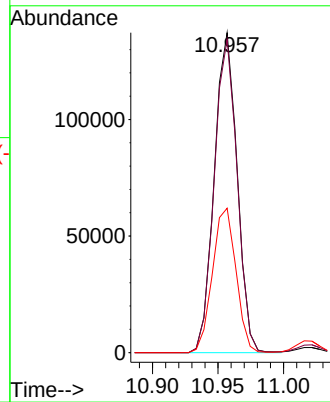
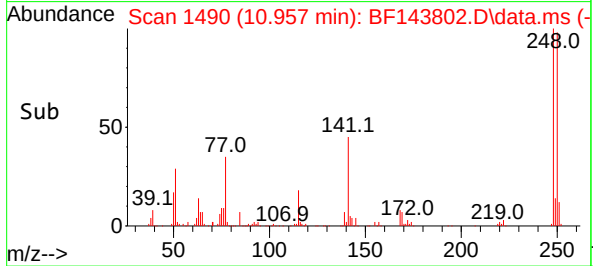
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDCCC040



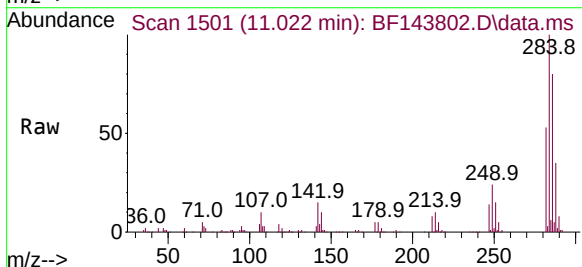
Tgt Ion:248 Resp: 166753  
Ion Ratio Lower Upper  
248 100  
250 97.9 78.7 118.1  
141 45.1 37.9 56.9

Manual Integrations  
APPROVED

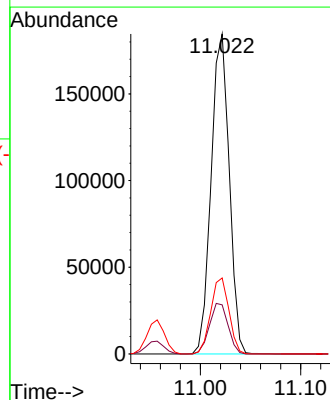
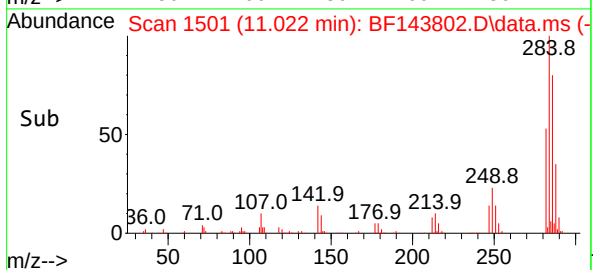
Reviewed By :Rahul Chavli 09/26/2025  
Supervised By :Jagrut Upadhyay 09/26/2025

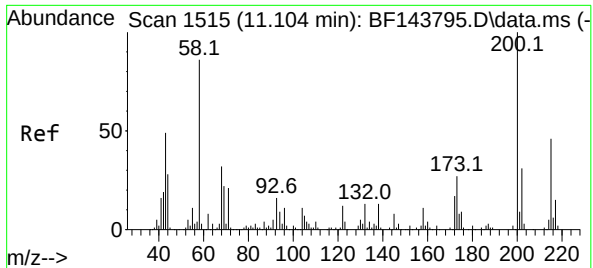


#68  
Hexachlorobenzene  
Concen: 42.714 ng  
RT: 11.022 min Scan# 1501  
Delta R.T. 0.000 min  
Lab File: BF143802.D  
Acq: 25 Sep 2025 13:06



Tgt Ion:284 Resp: 230854  
Ion Ratio Lower Upper  
284 100  
142 15.3 13.1 19.7  
249 23.7 19.5 29.3





#69

Atrazine

Concen: 41.731 ng

RT: 11.104 min Scan# 1515

Delta R.T. -0.006 min

Lab File: BF143802.D

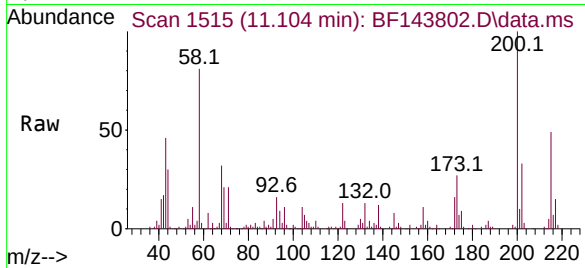
Acq: 25 Sep 2025 13:06

Instrument :

BNA\_F

ClientSampleId :

SSTDCCC040



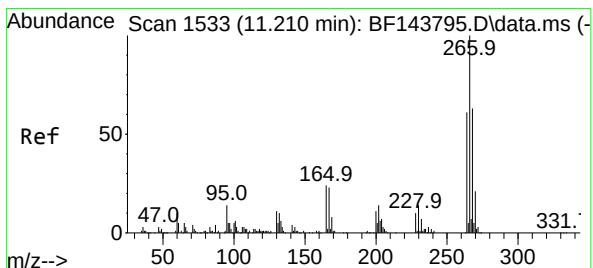
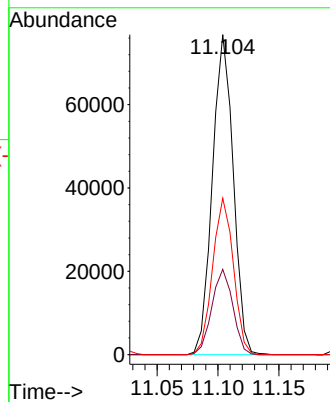
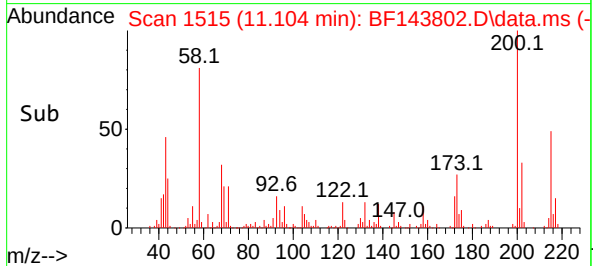
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:200 | Resp: | 91458     |
| Ion Ratio   | Lower | Upper     |
| 200         | 100   |           |
| 173         | 26.7  | 7.2 47.2  |
| 215         | 48.9  | 26.0 66.0 |

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/26/2025

Supervised By :Jagrut Upadhyay 09/26/2025



#70

Pentachlorophenol

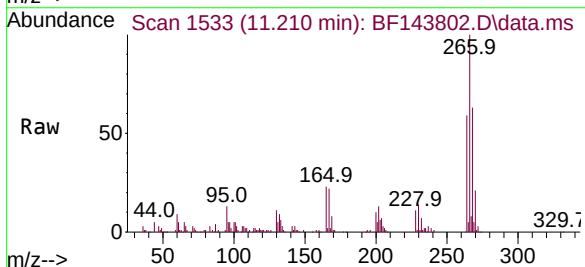
Concen: 42.781 ng

RT: 11.210 min Scan# 1533

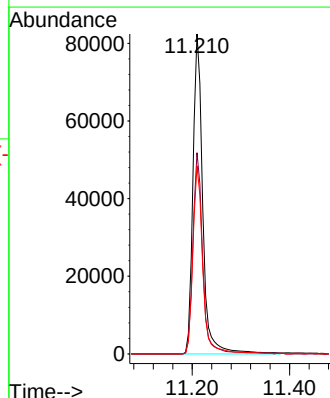
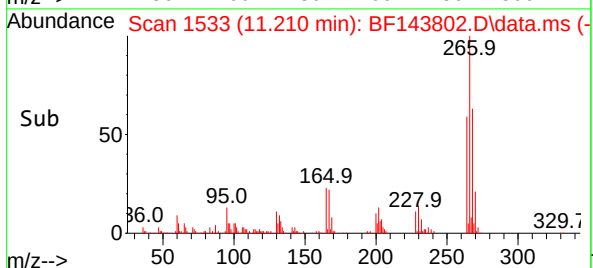
Delta R.T. -0.006 min

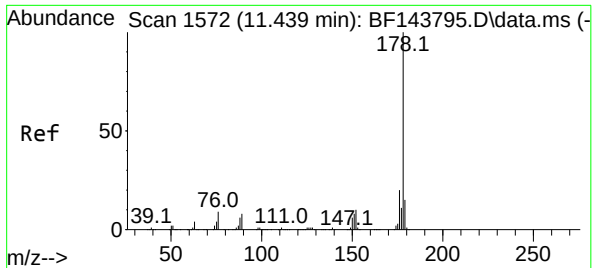
Lab File: BF143802.D

Acq: 25 Sep 2025 13:06



|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:266 | Resp: | 115094    |
| Ion Ratio   | Lower | Upper     |
| 266         | 100   |           |
| 268         | 62.9  | 50.5 75.7 |
| 264         | 58.8  | 48.8 73.2 |





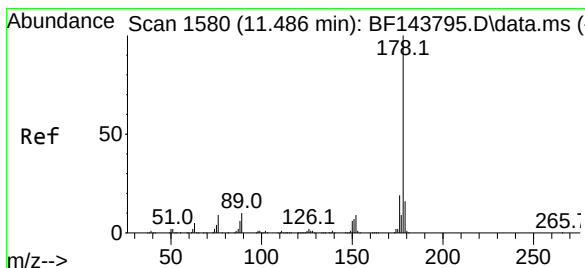
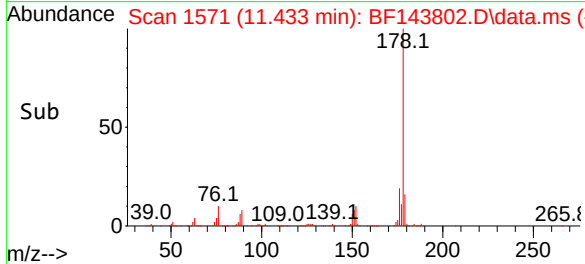
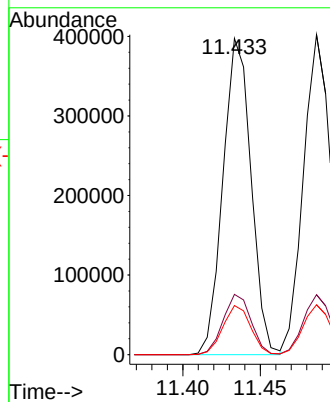
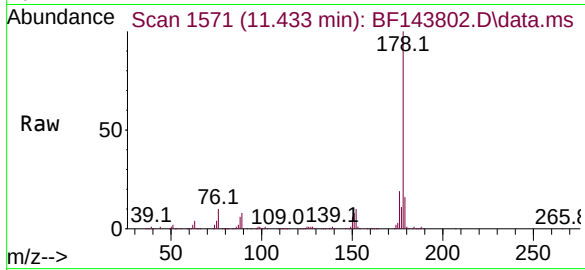
#71  
Phenanthrene  
Concen: 42.454 ng  
RT: 11.433 min Scan# 1572  
Delta R.T. -0.006 min  
Lab File: BF143802.D  
Acq: 25 Sep 2025 13:06

Instrument :  
BNA\_F  
ClientSampleId :  
SSTDCCC040

Tgt Ion:178 Resp: 501591  
Ion Ratio Lower Upper  
178 100  
176 19.1 15.6 23.4  
179 15.5 12.2 18.4

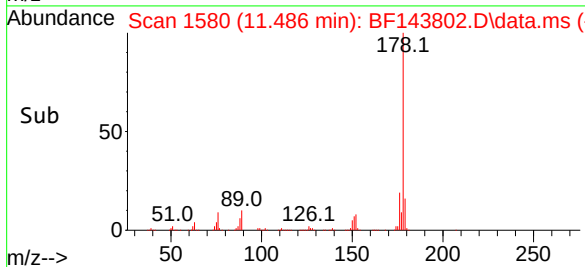
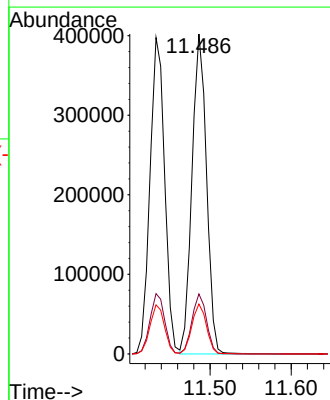
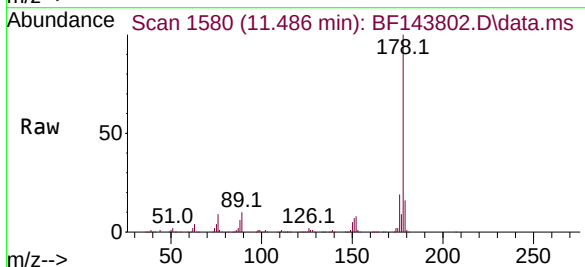
Manual Integrations  
APPROVED

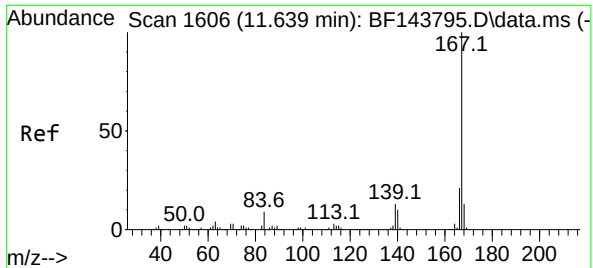
Reviewed By :Rahul Chavli 09/26/2025  
Supervised By :Jagrut Upadhyay 09/26/2025



#72  
Anthracene  
Concen: 41.988 ng  
RT: 11.486 min Scan# 1580  
Delta R.T. -0.006 min  
Lab File: BF143802.D  
Acq: 25 Sep 2025 13:06

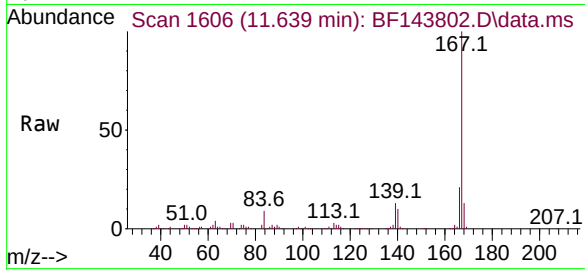
Tgt Ion:178 Resp: 497611  
Ion Ratio Lower Upper  
178 100  
176 18.7 15.3 22.9  
179 15.6 12.8 19.2





#73  
 Carbazole  
 Concen: 42.799 ng  
 RT: 11.639 min Scan# 1606  
 Delta R.T. -0.006 min  
 Lab File: BF143802.D  
 Acq: 25 Sep 2025 13:06

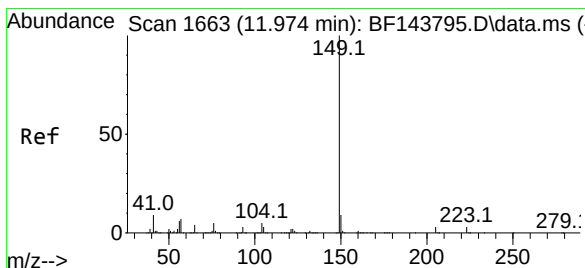
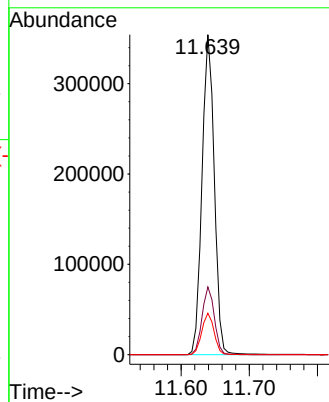
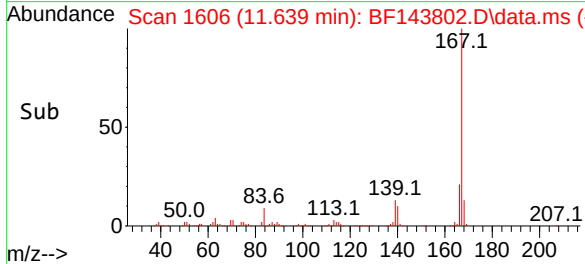
Instrument :  
 BNA\_F  
 ClientSampleId :  
 SSTDCCC040



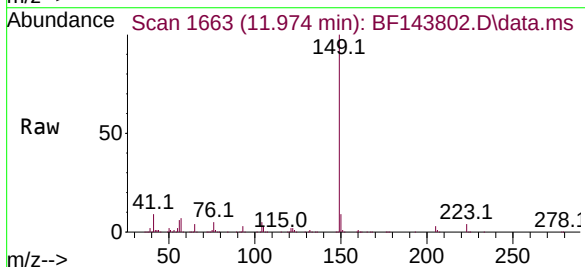
Tgt Ion:167 Resp: 443472  
 Ion Ratio Lower Upper  
 167 100  
 166 21.1 17.0 25.4  
 139 12.9 10.6 15.8

Manual Integrations  
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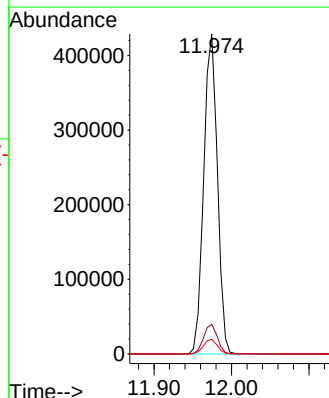
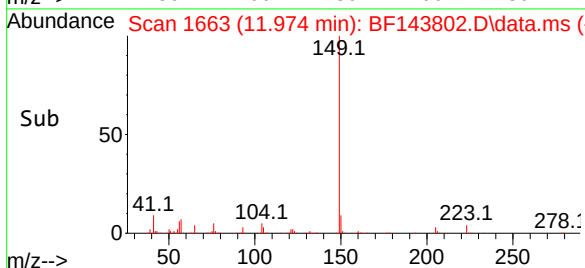
Reviewed By :Rahul Chavli 09/26/2025  
 Supervised By :Jagrut Upadhyay 09/26/2025

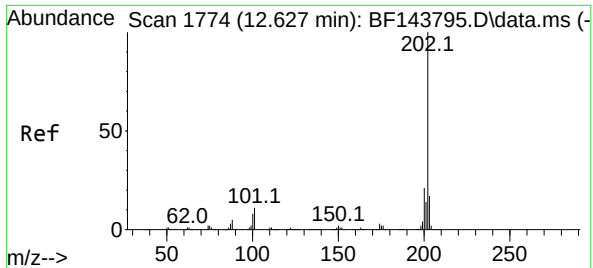


#74  
 Di-n-butylphthalate  
 Concen: 44.025 ng  
 RT: 11.974 min Scan# 1663  
 Delta R.T. 0.000 min  
 Lab File: BF143802.D  
 Acq: 25 Sep 2025 13:06



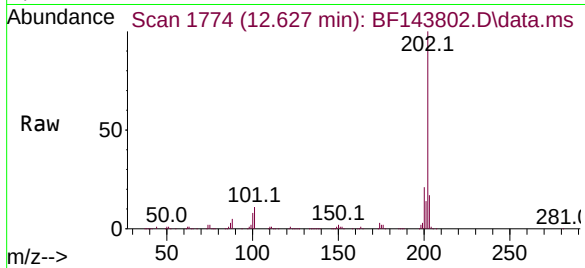
Tgt Ion:149 Resp: 524645  
 Ion Ratio Lower Upper  
 149 100  
 150 9.2 7.3 10.9  
 104 4.5 3.6 5.4





#75  
Fluoranthene  
Concen: 43.193 ng  
RT: 12.627 min Scan# 1774  
Delta R.T. 0.000 min  
Lab File: BF143802.D  
Acq: 25 Sep 2025 13:06

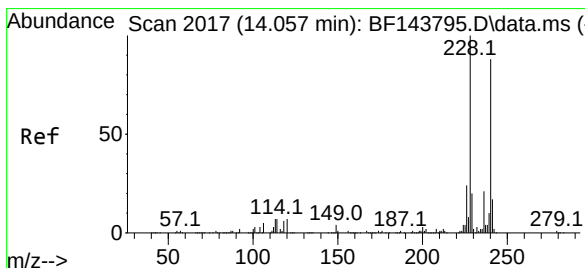
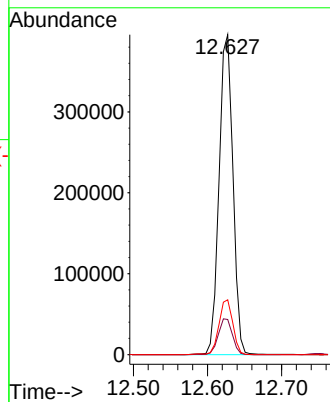
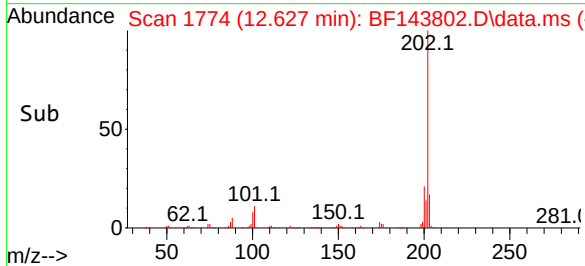
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDCCC040



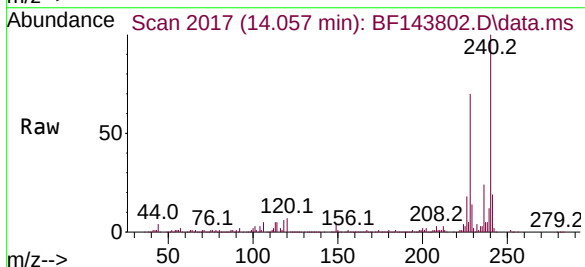
Tgt Ion:202 Resp: 513260  
Ion Ratio Lower Upper  
202 100  
101 11.0 0.0 31.1  
203 17.1 0.0 37.4

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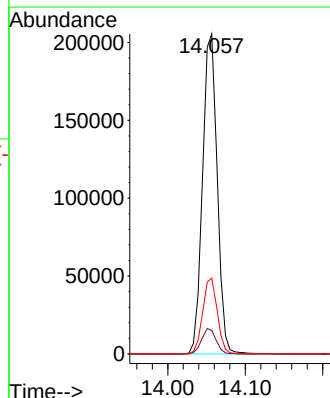
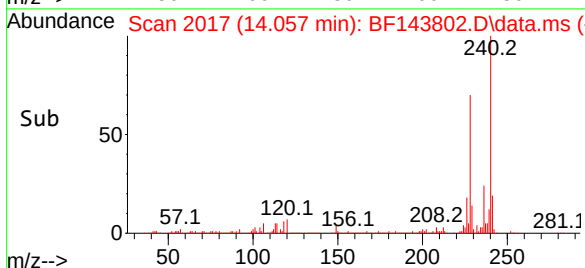
Reviewed By :Rahul Chavli 09/26/2025  
Supervised By :Jagrut Upadhyay 09/26/2025



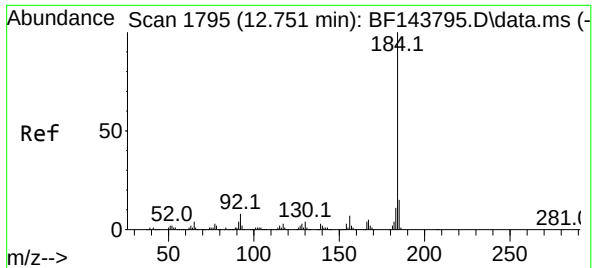
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.057 min Scan# 1717  
Delta R.T. -0.006 min  
Lab File: BF143802.D  
Acq: 25 Sep 2025 13:06



Tgt Ion:240 Resp: 269656  
Ion Ratio Lower Upper  
240 100  
120 7.4 6.2 9.4  
236 23.7 19.4 29.2







#77

Benzidine

Concen: 39.457 ng

RT: 12.745 min Scan# 1794

Delta R.T. -0.006 min

Lab File: BF143802.D

Acq: 25 Sep 2025 13:06

Instrument :

BNA\_F

ClientSampleId :

SSTDCCC040

Tgt Ion:184 Resp: 259270

Ion Ratio Lower Upper

184 100

185 15.4 11.6 17.4

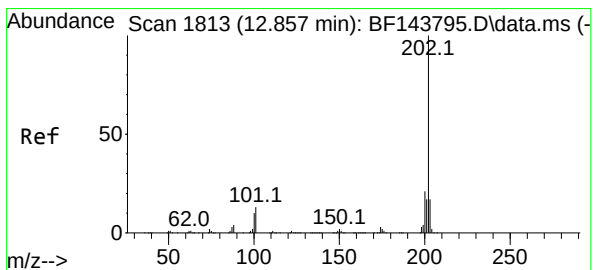
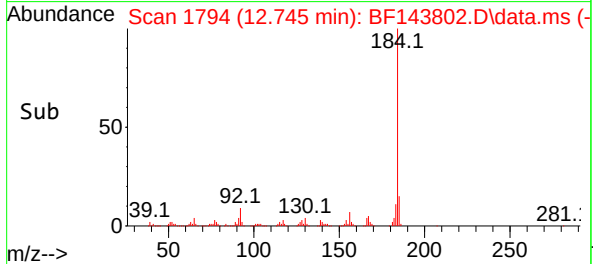
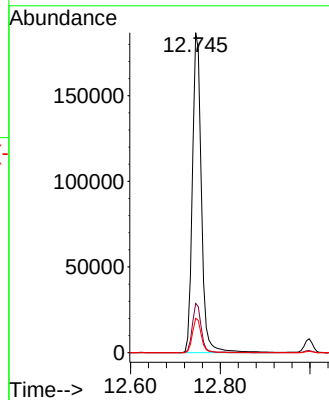
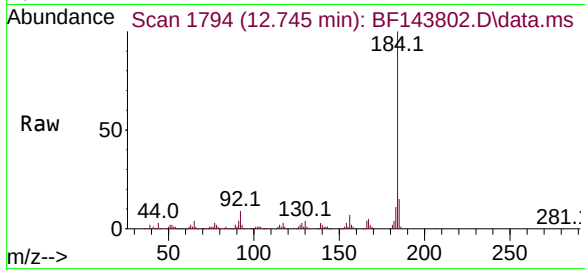
183 10.7 8.6 13.0

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/26/2025

Supervised By :Jagrut Upadhyay 09/26/2025



#78

Pyrene

Concen: 41.045 ng

RT: 12.857 min Scan# 1813

Delta R.T. 0.000 min

Lab File: BF143802.D

Acq: 25 Sep 2025 13:06

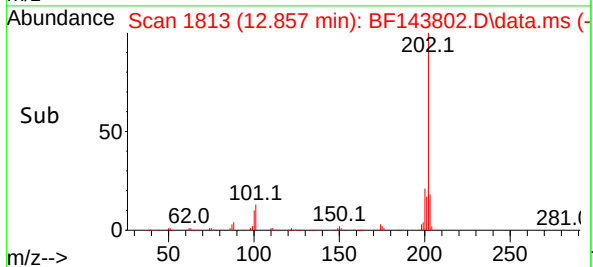
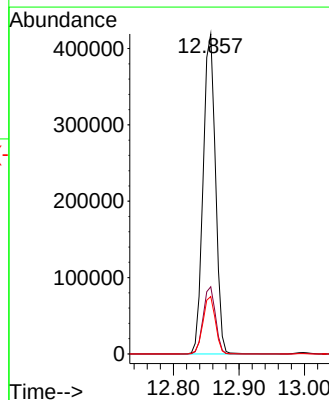
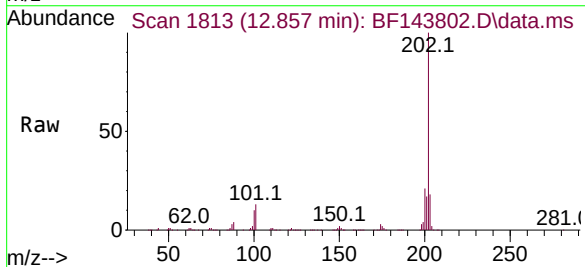
Tgt Ion:202 Resp: 544153

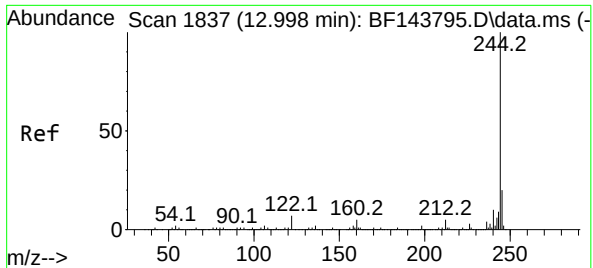
Ion Ratio Lower Upper

202 100

200 21.0 17.0 25.4

203 17.9 13.9 20.9





#79

Terphenyl-d14

Concen: 85.688 ng

RT: 12.998 min Scan# 1837

Delta R.T. -0.006 min

Lab File: BF143802.D

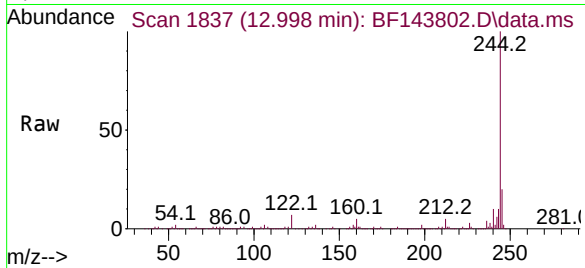
Acq: 25 Sep 2025 13:06

Instrument :

BNA\_F

ClientSampleId :

SSTDCCC040



Tgt Ion:244 Resp: 1136138

Ion Ratio Lower Upper

244 100

212 4.8 3.9 5.9

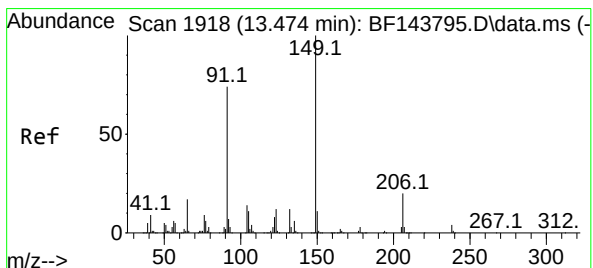
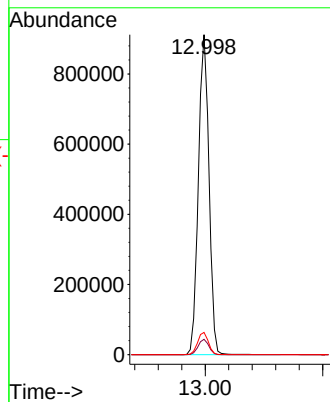
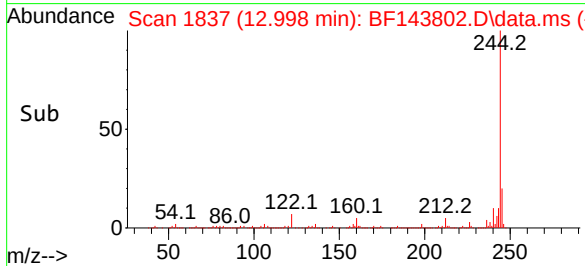
122 6.9 5.6 8.4

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/26/2025

Supervised By :Jagrut Upadhyay 09/26/2025



#80

Butylbenzylphthalate

Concen: 43.304 ng

RT: 13.474 min Scan# 1918

Delta R.T. -0.006 min

Lab File: BF143802.D

Acq: 25 Sep 2025 13:06

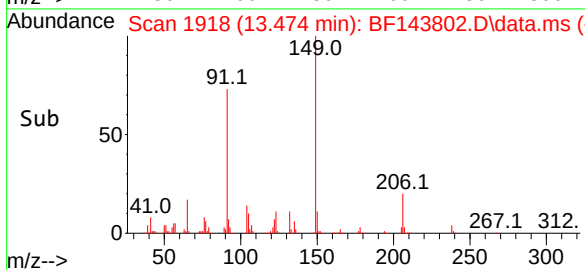
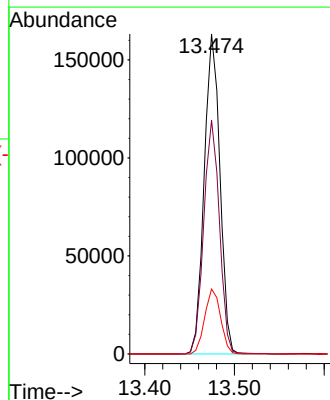
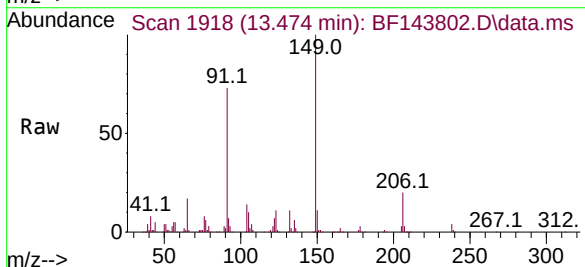
Tgt Ion:149 Resp: 198621

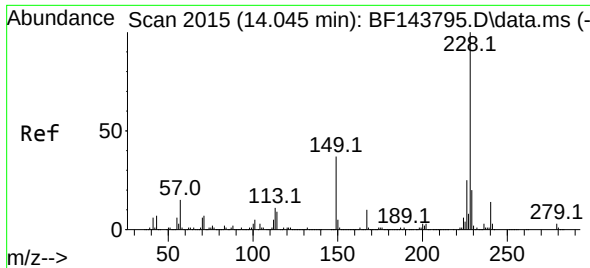
Ion Ratio Lower Upper

149 100

91 73.0 59.5 89.3

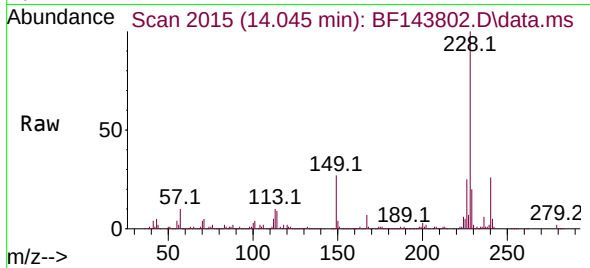
206 20.3 16.1 24.1





#81  
Benzo(a)anthracene  
Concen: 40.691 ng  
RT: 14.045 min Scan# 2015  
Delta R.T. -0.006 min  
Lab File: BF143802.D  
Acq: 25 Sep 2025 13:06

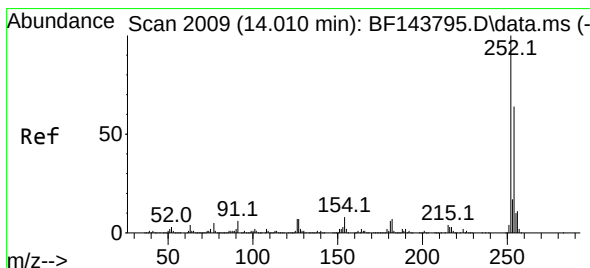
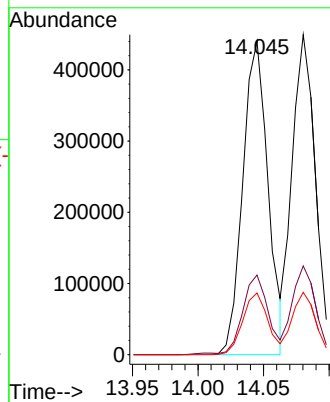
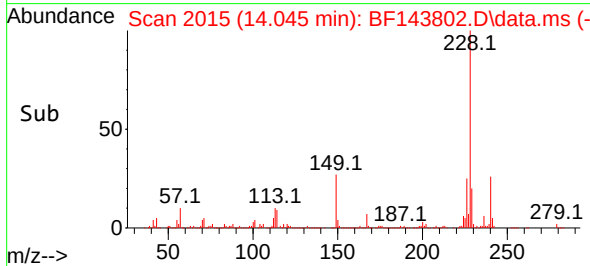
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDCCC040



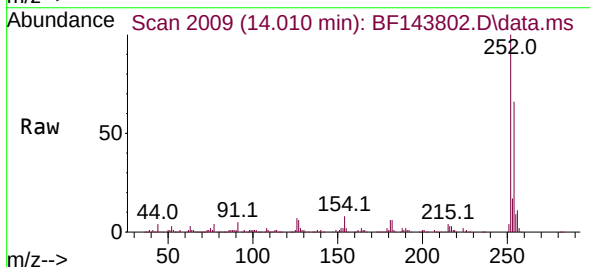
Tgt Ion:228 Resp: 589468  
Ion Ratio Lower Upper  
228 100  
226 25.4 20.2 30.2  
229 19.7 16.1 24.1

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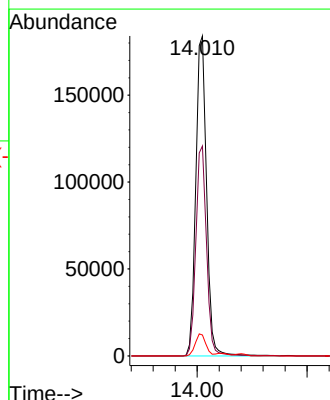
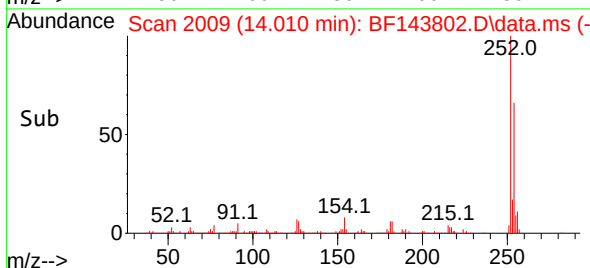
Reviewed By :Rahul Chavli 09/26/2025  
Supervised By :Jagrut Upadhyay 09/26/2025

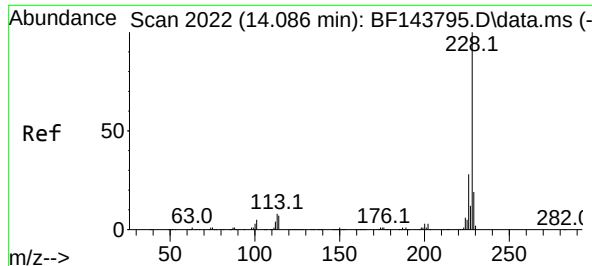


#82  
3,3'-Dichlorobenzidine  
Concen: 39.938 ng  
RT: 14.010 min Scan# 2009  
Delta R.T. 0.000 min  
Lab File: BF143802.D  
Acq: 25 Sep 2025 13:06



Tgt Ion:252 Resp: 250642  
Ion Ratio Lower Upper  
252 100  
254 65.6 51.5 77.3  
126 6.5 5.4 8.2





#83

Chrysene

Concen: 42.382 ng

RT: 14.080 min Scan# 20

Delta R.T. -0.006 min

Lab File: BF143802.D

Acq: 25 Sep 2025 13:06

Instrument :

BNA\_F

ClientSampleId :

SSTDCCC040

Tgt Ion:228 Resp: 555552

Ion Ratio Lower Upper

228 100

226 27.7 22.6 33.8

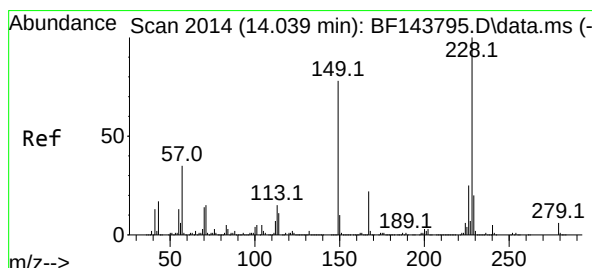
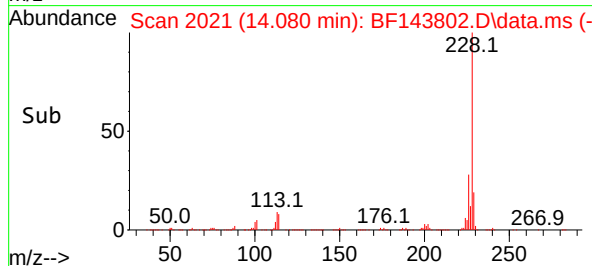
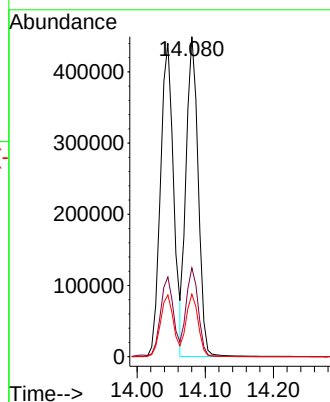
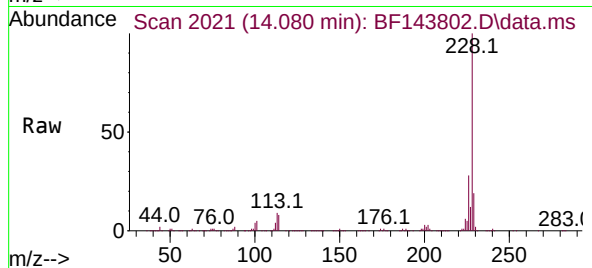
229 19.5 15.6 23.4

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/26/2025

Supervised By :Jagrut Upadhyay 09/26/2025



#84

Bis(2-ethylhexyl)phthalate

Concen: 43.322 ng

RT: 14.033 min Scan# 2013

Delta R.T. -0.006 min

Lab File: BF143802.D

Acq: 25 Sep 2025 13:06

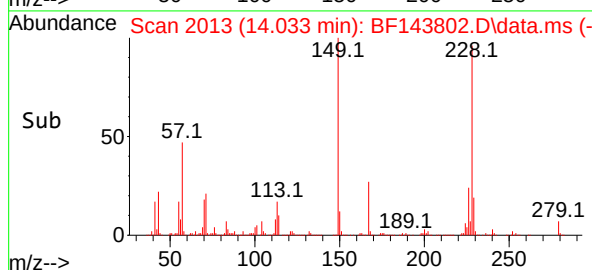
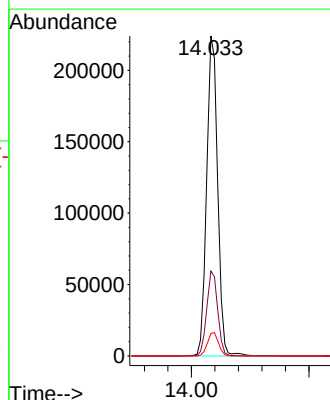
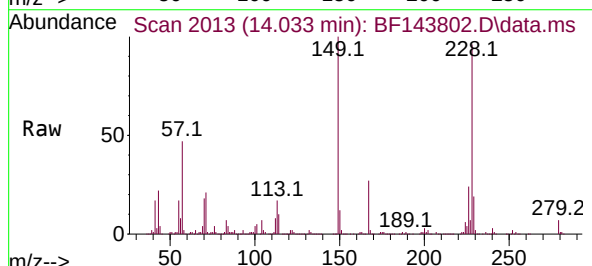
Tgt Ion:149 Resp: 291258

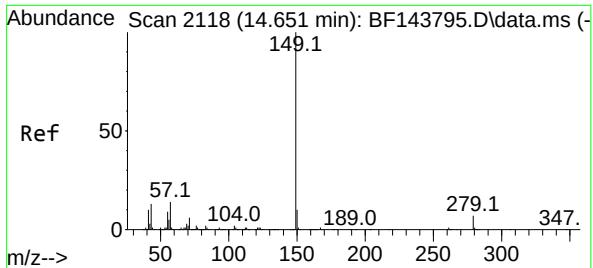
Ion Ratio Lower Upper

149 100

167 26.5 22.2 33.2

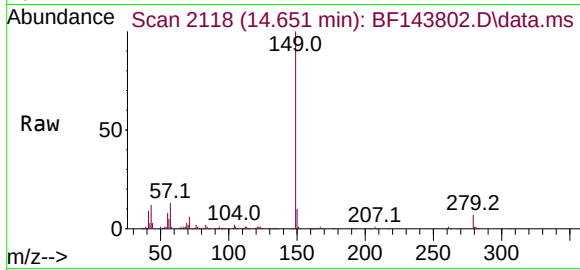
279 7.0 6.0 9.0





#85  
Di-n-octyl phthalate  
Concen: 40.838 ng  
RT: 14.651 min Scan# 2118  
Delta R.T. -0.006 min  
Lab File: BF143802.D  
Acq: 25 Sep 2025 13:06

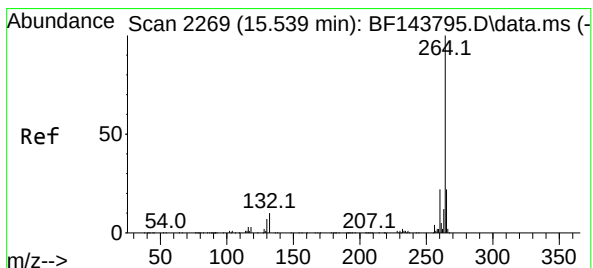
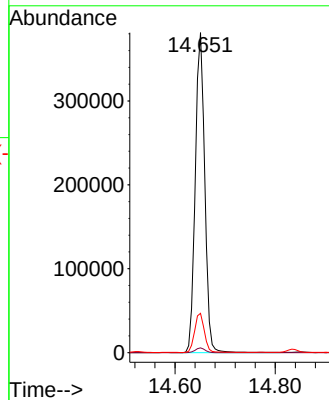
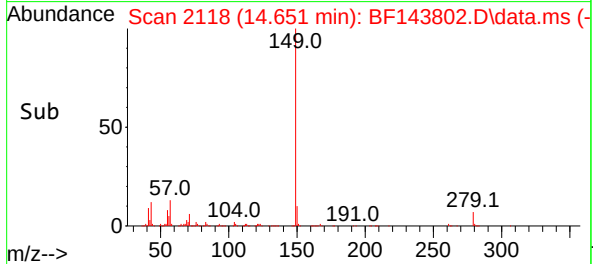
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDCCC040



Tgt Ion:149 Resp: 498026  
Ion Ratio Lower Upper  
149 100  
167 1.5 1.1 1.7  
43 12.7 10.7 16.1

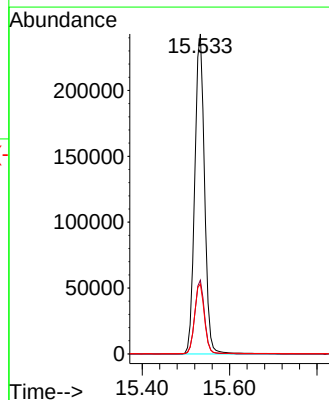
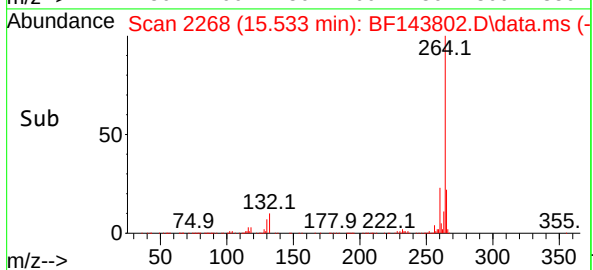
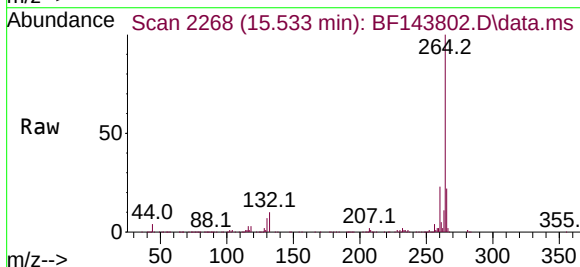
Manual Integrations  
APPROVED

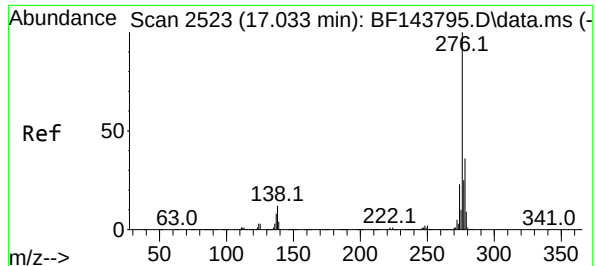
Reviewed By :Rahul Chavli 09/26/2025  
Supervised By :Jagrut Upadhyay 09/26/2025



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.533 min Scan# 2268  
Delta R.T. -0.006 min  
Lab File: BF143802.D  
Acq: 25 Sep 2025 13:06

Tgt Ion:264 Resp: 377788  
Ion Ratio Lower Upper  
264 100  
260 23.0 17.9 26.9  
265 21.8 17.7 26.5





#87

Indeno(1,2,3-cd)pyrene

Concen: 43.072 ng

RT: 17.027 min Scan# 2194

Delta R.T. -0.018 min

Lab File: BF143802.D

Acq: 25 Sep 2025 13:06

Instrument :

BNA\_F

ClientSampleId :

SSTDCCC040

Tgt Ion:276 Resp: 1234638

Ion Ratio Lower Upper

276 100

138 12.8 10.6 15.8

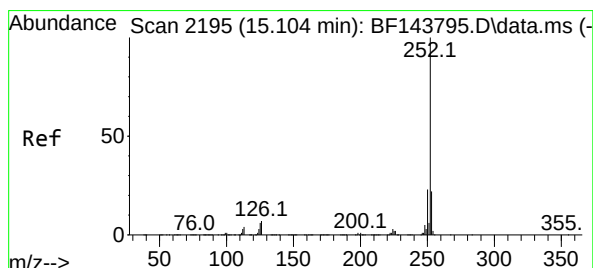
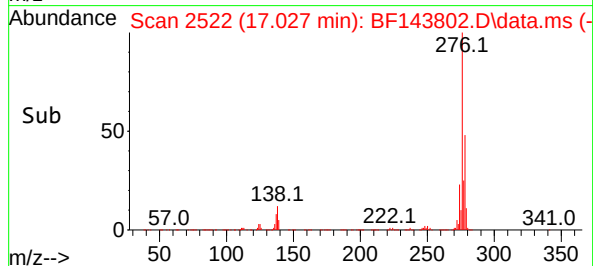
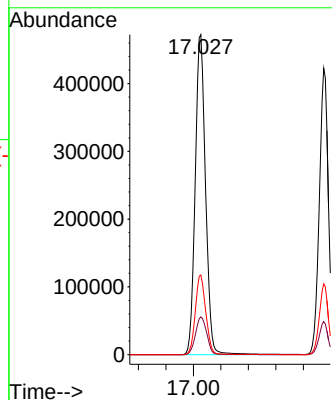
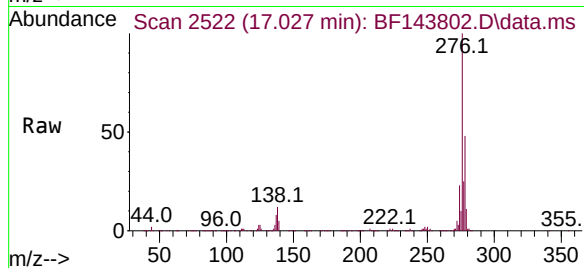
277 25.2 20.7 31.1

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/26/2025

Supervised By :Jagrut Upadhyay 09/26/2025



#88

Benzo(b)fluoranthene

Concen: 40.764 ng

RT: 15.098 min Scan# 2194

Delta R.T. -0.006 min

Lab File: BF143802.D

Acq: 25 Sep 2025 13:06

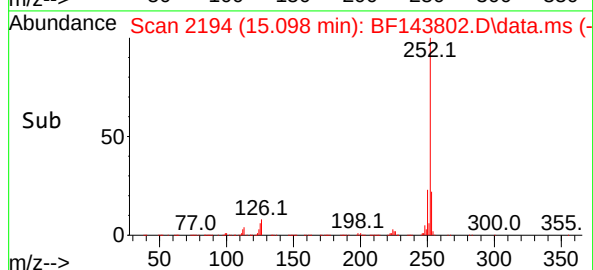
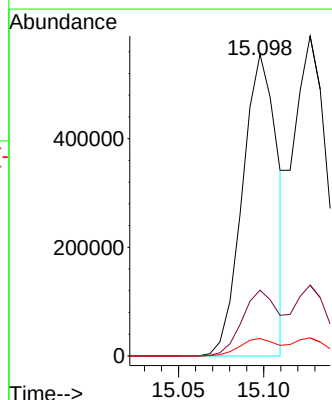
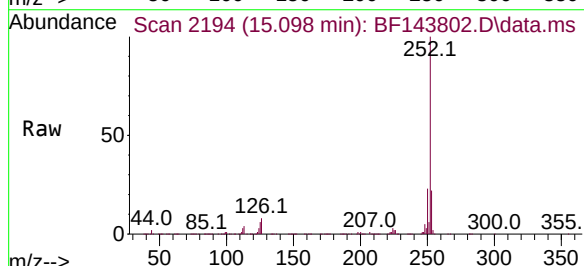
Tgt Ion:252 Resp: 784257

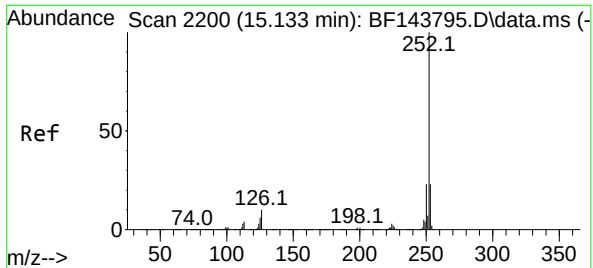
Ion Ratio Lower Upper

252 100

253 21.8 17.8 26.8

125 5.8 4.4 6.6





#89

Benzo(k)fluoranthene

Concen: 36.773 ng

RT: 15.127 min Scan# 21

Delta R.T. -0.012 min

Lab File: BF143802.D

Acq: 25 Sep 2025 13:06

Instrument :

BNA\_F

ClientSampleId :

SSTDCCC040

Tgt Ion:252 Resp: 710776

Ion Ratio Lower Upper

252 100

253 22.2 17.9 26.9

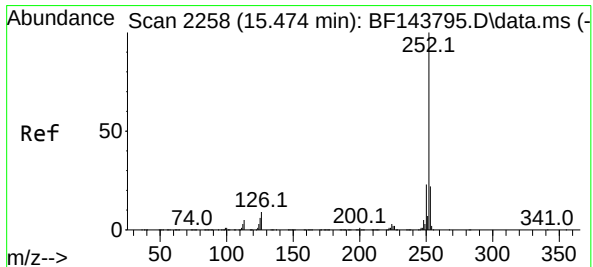
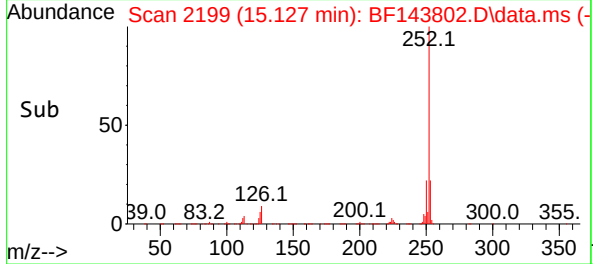
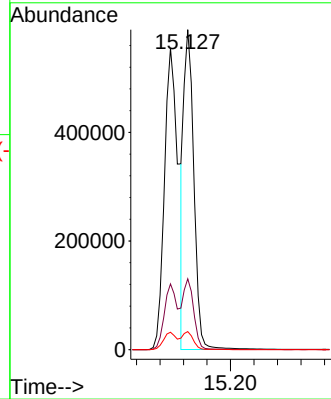
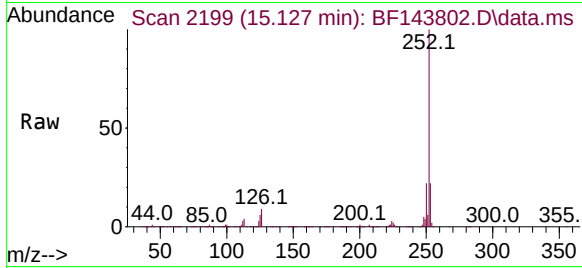
125 5.6 4.6 6.8

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/26/2025

Supervised By :Jagrut Upadhyay 09/26/2025



#90

Benzo(a)pyrene

Concen: 41.992 ng

RT: 15.468 min Scan# 2257

Delta R.T. -0.012 min

Lab File: BF143802.D

Acq: 25 Sep 2025 13:06

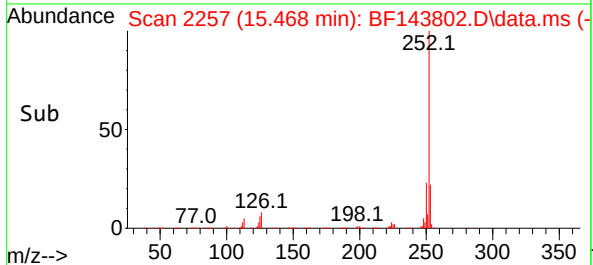
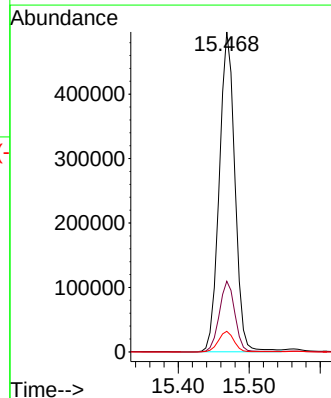
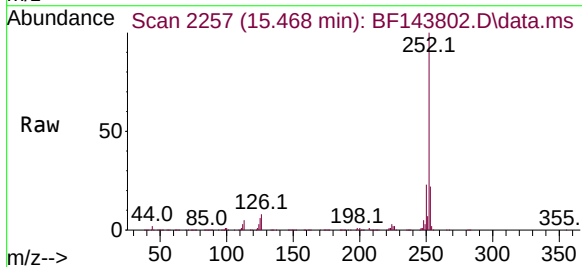
Tgt Ion:252 Resp: 759384

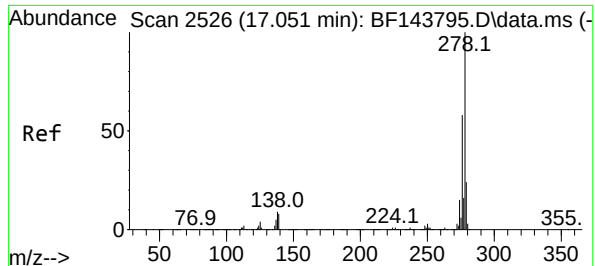
Ion Ratio Lower Upper

252 100

253 22.1 17.6 26.4

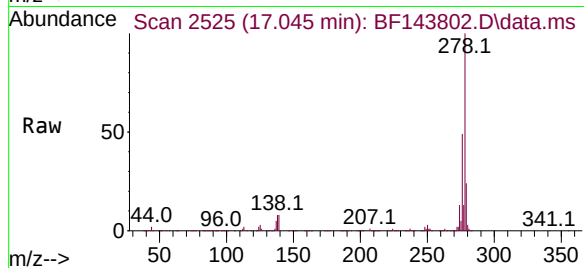
125 6.4 5.0 7.4





#91  
Dibenzo(a,h)anthracene  
Concen: 43.274 ng  
RT: 17.045 min Scan# 2526  
Delta R.T. -0.023 min  
Lab File: BF143802.D  
Acq: 25 Sep 2025 13:06

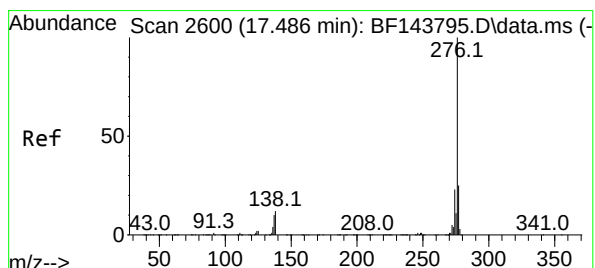
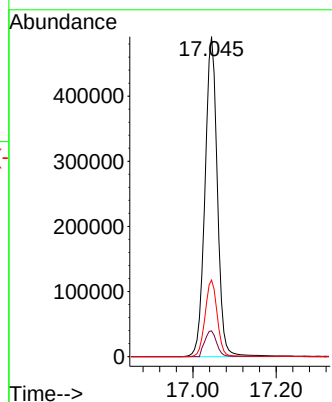
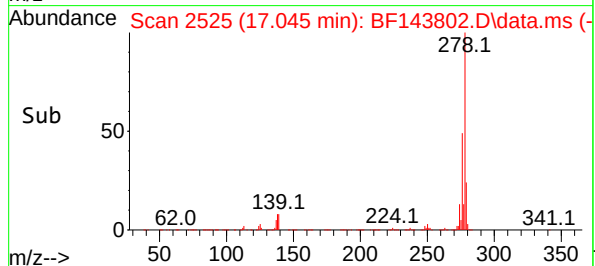
Instrument :  
BNA\_F  
ClientSampleId :  
SSTDCCC040



Tgt Ion:278 Resp: 101455  
Ion Ratio Lower Upper  
278 100  
139 8.0 6.7 10.1  
279 23.9 19.3 28.9

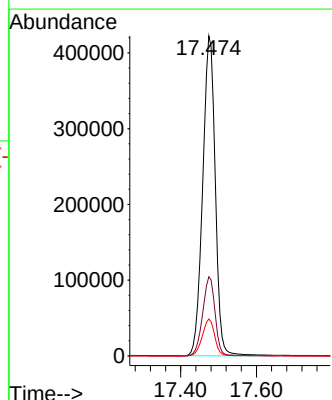
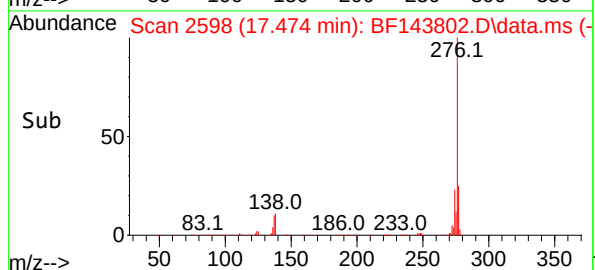
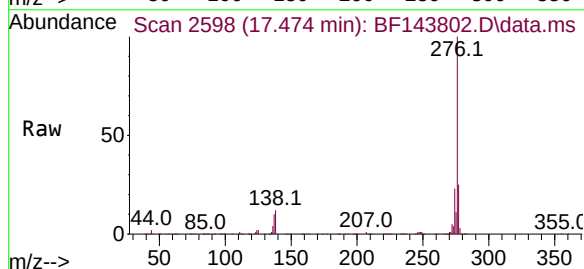
Manual Integrations  
APPROVED

Reviewed By :Rahul Chavli 09/26/2025  
Supervised By :Jagrut Upadhyay 09/26/2025



#92  
Benzo(g,h,i)perylene  
Concen: 43.031 ng  
RT: 17.474 min Scan# 2598  
Delta R.T. -0.029 min  
Lab File: BF143802.D  
Acq: 25 Sep 2025 13:06

Tgt Ion:276 Resp: 972510  
Ion Ratio Lower Upper  
276 100  
277 24.8 19.6 29.4  
138 11.5 9.2 13.8





Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF092525\  
 Data File : BF143802.D  
 Acq On : 25 Sep 2025 13:06  
 Operator : RC/JU  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 LabSampleId :  
 SSTDCCC040

Quant Time: Sep 25 14:33:57 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF092325.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Sep 24 05:00:00 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      | 20.000 | 20.000 | 0.0   | 92    | 0.00     |
| 2    | 1,4-Dioxane                 | 40.000 | 44.481 | -11.2 | 95    | 0.00     |
| 3    | Pyridine                    | 40.000 | 41.751 | -4.4  | 89    | 0.00     |
| 4    | n-Nitrosodimethylamine      | 40.000 | 38.826 | 2.9   | 84    | -0.02    |
| 5 S  | 2-Fluorophenol              | 80.000 | 81.743 | -2.2  | 87    | 0.00     |
| 6    | Aniline                     | 40.000 | 37.738 | 5.7   | 84    | 0.00     |
| 7 S  | Phenol-d6                   | 80.000 | 77.411 | 3.2   | 83    | -0.01    |
| 8    | 2-Chlorophenol              | 40.000 | 39.981 | 0.0   | 87    | 0.00     |
| 9    | Benzaldehyde                | 40.000 | 34.942 | 12.6  | 68    | 0.00     |
| 10 C | Phenol                      | 40.000 | 37.701 | 5.7   | 82    | -0.01    |
| 11   | bis(2-Chloroethyl)ether     | 40.000 | 38.364 | 4.1   | 84    | 0.00     |
| 12   | 1,3-Dichlorobenzene         | 40.000 | 40.509 | -1.3  | 89    | 0.00     |
| 13 C | 1,4-Dichlorobenzene         | 40.000 | 40.057 | -0.1  | 88    | 0.00     |
| 14   | 1,2-Dichlorobenzene         | 40.000 | 39.060 | 2.3   | 86    | 0.00     |
| 15   | Benzyl Alcohol              | 40.000 | 37.316 | 6.7   | 81    | 0.00     |
| 16   | 2,2'-oxybis(1-Chloropropane | 40.000 | 36.459 | 8.9   | 80    | 0.00     |
| 17   | 2-Methylphenol              | 40.000 | 37.449 | 6.4   | 83    | 0.00     |
| 18   | Hexachloroethane            | 40.000 | 40.547 | -1.4  | 88    | 0.00     |
| 19 P | n-Nitroso-di-n-propylamine  | 40.000 | 34.204 | 14.5  | 79    | -0.01    |
| 20   | 3+4-Methylphenols           | 40.000 | 37.534 | 6.2   | 81    | 0.00     |
| 21 I | Naphthalene-d8              | 20.000 | 20.000 | 0.0   | 86    | 0.00     |
| 22   | Acetophenone                | 40.000 | 40.315 | -0.8  | 82    | 0.00     |
| 23 S | Nitrobenzene-d5             | 80.000 | 84.256 | -5.3  | 84    | 0.00     |
| 24   | Nitrobenzene                | 40.000 | 41.699 | -4.2  | 83    | -0.01    |
| 25   | Isophorone                  | 40.000 | 37.868 | 5.3   | 77    | -0.01    |
| 26 C | 2-Nitrophenol               | 40.000 | 39.769 | 0.6   | 84    | 0.00     |
| 27   | 2,4-Dimethylphenol          | 40.000 | 38.866 | 2.8   | 78    | 0.00     |
| 28   | bis(2-Chloroethoxy)methane  | 40.000 | 38.157 | 4.6   | 77    | 0.00     |
| 29 C | 2,4-Dichlorophenol          | 40.000 | 40.090 | -0.2  | 81    | 0.00     |
| 30   | 1,2,4-Trichlorobenzene      | 40.000 | 41.644 | -4.1  | 84    | 0.00     |
| 31   | Naphthalene                 | 40.000 | 40.984 | -2.5  | 84    | 0.00     |
| 32   | Benzoic acid                | 40.000 | 31.632 | 20.9  | 66    | -0.04    |
| 33   | 4-Chloroaniline             | 40.000 | 38.630 | 3.4   | 78    | 0.00     |
| 34 C | Hexachlorobutadiene         | 40.000 | 41.718 | -4.3  | 83    | 0.00     |
| 35   | Caprolactam                 | 40.000 | 36.642 | 8.4   | 75    | -0.03    |
| 36 C | 4-Chloro-3-methylphenol     | 40.000 | 37.652 | 5.9   | 77    | 0.00     |
| 37   | 2-Methylnaphthalene         | 40.000 | 38.990 | 2.5   | 80    | 0.00     |
| 38   | 1-Methylnaphthalene         | 40.000 | 39.098 | 2.3   | 80    | 0.00     |
| 39 I | Acenaphthene-d10            | 20.000 | 20.000 | 0.0   | 79    | 0.00     |
| 40   | 1,2,4,5-Tetrachlorobenzene  | 40.000 | 43.382 | -8.5  | 82    | 0.00     |
| 41 P | Hexachlorocyclopentadiene   | 40.000 | 42.650 | -6.6  | 77    | 0.00     |
| 42 S | 2,4,6-Tribromophenol        | 80.000 | 87.487 | -9.4  | 78    | 0.00     |
| 43 C | 2,4,6-Trichlorophenol       | 40.000 | 44.230 | -10.6 | 78    | 0.00     |
| 44   | 2,4,5-Trichlorophenol       | 40.000 | 40.809 | -2.0  | 75    | 0.00     |
| 45 S | 2-Fluorobiphenyl            | 80.000 | 86.957 | -8.7  | 81    | 0.00     |
| 46   | 1,1'-Biphenyl               | 40.000 | 42.097 | -5.2  | 80    | 0.00     |
| 47   | 2-Chloronaphthalene         | 40.000 | 42.329 | -5.8  | 80    | 0.00     |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF092525\  
 Data File : BF143802.D  
 Acq On : 25 Sep 2025 13:06  
 Operator : RC/JU  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 LabSampleId :  
 SSTDCCC040

Quant Time: Sep 25 14:33:57 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF092325.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Sep 24 05:00:00 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) |
|------|----------------------------|--------|--------|-------|-------|----------|
| 48   | 2-Nitroaniline             | 40.000 | 43.977 | -9.9  | 76    | 0.00     |
| 49   | Acenaphthylene             | 40.000 | 41.866 | -4.7  | 78    | 0.00     |
| 50   | Dimethylphthalate          | 40.000 | 40.564 | -1.4  | 76    | 0.00     |
| 51   | 2,6-Dinitrotoluene         | 40.000 | 43.168 | -7.9  | 75    | 0.00     |
| 52 C | Acenaphthene               | 40.000 | 40.912 | -2.3  | 77    | 0.00     |
| 53   | 3-Nitroaniline             | 40.000 | 44.387 | -11.0 | 75    | 0.00     |
| 54 P | 2,4-Dinitrophenol          | 40.000 | 37.264 | 6.8   | 68    | 0.00     |
| 55   | Dibenzofuran               | 40.000 | 41.881 | -4.7  | 79    | 0.00     |
| 56 P | 4-Nitrophenol              | 40.000 | 39.668 | 0.8   | 73    | 0.00     |
| 57   | 2,4-Dinitrotoluene         | 40.000 | 38.763 | 3.1   | 73    | 0.00     |
| 58   | Fluorene                   | 40.000 | 40.828 | -2.1  | 78    | 0.00     |
| 59   | 2,3,4,6-Tetrachlorophenol  | 40.000 | 43.386 | -8.5  | 78    | 0.00     |
| 60   | Diethylphthalate           | 40.000 | 39.778 | 0.6   | 74    | 0.00     |
| 61   | 4-Chlorophenyl-phenylether | 40.000 | 40.580 | -1.4  | 76    | 0.00     |
| 62   | 4-Nitroaniline             | 40.000 | 41.725 | -4.3  | 71    | -0.01    |
| 63   | Azobenzene                 | 40.000 | 40.321 | -0.8  | 75    | 0.00     |
| 64 I | Phenanthrene-d10           | 20.000 | 20.000 | 0.0   | 75    | 0.00     |
| 65   | 4,6-Dinitro-2-methylphenol | 40.000 | 37.701 | 5.7   | 70    | 0.00     |
| 66 c | n-Nitrosodiphenylamine     | 40.000 | 42.280 | -5.7  | 77    | 0.00     |
| 67   | 4-Bromophenyl-phenylether  | 40.000 | 42.519 | -6.3  | 76    | 0.00     |
| 68   | Hexachlorobenzene          | 40.000 | 42.714 | -6.8  | 77    | 0.00     |
| 69   | Atrazine                   | 40.000 | 41.731 | -4.3  | 71    | 0.00     |
| 70 C | Pentachlorophenol          | 40.000 | 42.781 | -7.0  | 74    | 0.00     |
| 71   | Phenanthrene               | 40.000 | 42.454 | -6.1  | 76    | 0.00     |
| 72   | Anthracene                 | 40.000 | 41.988 | -5.0  | 75    | 0.00     |
| 73   | Carbazole                  | 40.000 | 42.799 | -7.0  | 74    | 0.00     |
| 74   | Di-n-butylphthalate        | 40.000 | 44.025 | -10.1 | 74    | 0.00     |
| 75 C | Fluoranthene               | 40.000 | 43.193 | -8.0  | 74    | 0.00     |
| 76 I | Chrysene-d12               | 20.000 | 20.000 | 0.0   | 74    | 0.00     |
| 77   | Benzydine                  | 40.000 | 39.457 | 1.4   | 69    | 0.00     |
| 78   | Pyrene                     | 40.000 | 41.045 | -2.6  | 74    | 0.00     |
| 79 S | Terphenyl-d14              | 80.000 | 85.688 | -7.1  | 76    | 0.00     |
| 80   | Butylbenzylphthalate       | 40.000 | 43.304 | -8.3  | 69    | 0.00     |
| 81   | Benzo(a)anthracene         | 40.000 | 40.691 | -1.7  | 70    | 0.00     |
| 82   | 3,3'-Dichlorobenzidine     | 40.000 | 39.938 | 0.2   | 69    | 0.00     |
| 83   | Chrysene                   | 40.000 | 42.382 | -6.0  | 75    | 0.00     |
| 84   | Bis(2-ethylhexyl)phthalate | 40.000 | 43.322 | -8.3  | 71    | 0.00     |
| 85 c | Di-n-octyl phthalate       | 40.000 | 40.838 | -2.1  | 67    | 0.00     |
| 86 I | Perylene-d12               | 20.000 | 20.000 | 0.0   | 72    | 0.00     |
| 87   | Indeno(1,2,3-cd)pyrene     | 40.000 | 43.072 | -7.7  | 73    | -0.02    |
| 88   | Benzo(b)fluoranthene       | 40.000 | 40.764 | -1.9  | 68    | 0.00     |
| 89   | Benzo(k)fluoranthene       | 40.000 | 36.773 | 8.1   | 62    | -0.01    |
| 90 C | Benzo(a)pyrene             | 40.000 | 41.992 | -5.0  | 70    | -0.01    |
| 91   | Dibenzo(a,h)anthracene     | 40.000 | 43.274 | -8.2  | 72    | -0.02    |
| 92   | Benzo(g,h,i)perylene       | 40.000 | 43.031 | -7.6  | 72    | -0.03    |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF092525\  
Data File : BF143802.D  
Acq On : 25 Sep 2025 13:06  
Operator : RC/JU  
Sample : SSTDCCC040  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
BNA\_F  
LabSampleId :  
SSTDCCC040

Quant Time: Sep 25 14:33:57 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF092325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Sep 24 05:00:00 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) |
|----------|--------|-------|------|-------|----------|
|----------|--------|-------|------|-------|----------|

-----  
(#) = Out of Range                      SPCC's out = 0    CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF092525\  
 Data File : BF143802.D  
 Acq On : 25 Sep 2025 13:06  
 Operator : RC/JU  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 LabSampleId :  
 SSTDCCC040

Quant Time: Sep 25 14:33:57 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF092325.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Sep 24 05:00:00 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   | 92    | 0.00     |
| 2    | 1,4-Dioxane                 | 0.589 | 0.655 | -11.2 | 95    | 0.00     |
| 3    | Pyridine                    | 1.590 | 1.660 | -4.4  | 89    | 0.00     |
| 4    | n-Nitrosodimethylamine      | 0.797 | 0.774 | 2.9   | 84    | -0.02    |
| 5 S  | 2-Fluorophenol              | 1.231 | 1.258 | -2.2  | 87    | 0.00     |
| 6    | Aniline                     | 2.064 | 1.948 | 5.6   | 84    | 0.00     |
| 7 S  | Phenol-d6                   | 1.422 | 1.376 | 3.2   | 83    | -0.01    |
| 8    | 2-Chlorophenol              | 1.260 | 1.260 | 0.0   | 87    | 0.00     |
| 9    | Benzaldehyde                | 1.246 | 1.088 | 12.7  | 68    | 0.00     |
| 10 C | Phenol                      | 1.653 | 1.558 | 5.7   | 82    | -0.01    |
| 11   | bis(2-Chloroethyl)ether     | 1.296 | 1.243 | 4.1   | 84    | 0.00     |
| 12   | 1,3-Dichlorobenzene         | 1.463 | 1.482 | -1.3  | 89    | 0.00     |
| 13 C | 1,4-Dichlorobenzene         | 1.460 | 1.462 | -0.1  | 88    | 0.00     |
| 14   | 1,2-Dichlorobenzene         | 1.383 | 1.350 | 2.4   | 86    | 0.00     |
| 15   | Benzyl Alcohol              | 1.028 | 0.959 | 6.7   | 81    | 0.00     |
| 16   | 2,2'-oxybis(1-Chloropropane | 3.073 | 2.801 | 8.9   | 80    | 0.00     |
| 17   | 2-Methylphenol              | 0.976 | 0.913 | 6.5   | 83    | 0.00     |
| 18   | Hexachloroethane            | 0.514 | 0.521 | -1.4  | 88    | 0.00     |
| 19 P | n-Nitroso-di-n-propylamine  | 0.915 | 0.782 | 14.5  | 79    | -0.01    |
| 20   | 3+4-Methylphenols           | 1.188 | 1.115 | 6.1   | 81    | 0.00     |
| 21 I | Naphthalene-d8              | 1.000 | 1.000 | 0.0   | 86    | 0.00     |
| 22   | Acetophenone                | 0.439 | 0.443 | -0.9  | 82    | 0.00     |
| 23 S | Nitrobenzene-d5             | 0.327 | 0.344 | -5.2  | 84    | 0.00     |
| 24   | Nitrobenzene                | 0.362 | 0.378 | -4.4  | 83    | -0.01    |
| 25   | Isophorone                  | 0.637 | 0.603 | 5.3   | 77    | -0.01    |
| 26 C | 2-Nitrophenol               | 0.132 | 0.146 | -10.6 | 84    | 0.00     |
| 27   | 2,4-Dimethylphenol          | 0.285 | 0.277 | 2.8   | 78    | 0.00     |
| 28   | bis(2-Chloroethoxy)methane  | 0.414 | 0.395 | 4.6   | 77    | 0.00     |
| 29 C | 2,4-Dichlorophenol          | 0.280 | 0.281 | -0.4  | 81    | 0.00     |
| 30   | 1,2,4-Trichlorobenzene      | 0.291 | 0.303 | -4.1  | 84    | 0.00     |
| 31   | Naphthalene                 | 0.957 | 0.981 | -2.5  | 84    | 0.00     |
| 32   | Benzoic acid                | 0.137 | 0.109 | 20.4  | 66    | -0.04    |
| 33   | 4-Chloroaniline             | 0.336 | 0.325 | 3.3   | 78    | 0.00     |
| 34 C | Hexachlorobutadiene         | 0.217 | 0.226 | -4.1  | 83    | 0.00     |
| 35   | Caprolactam                 | 0.072 | 0.066 | 8.3   | 75    | -0.03    |
| 36 C | 4-Chloro-3-methylphenol     | 0.263 | 0.247 | 6.1   | 77    | 0.00     |
| 37   | 2-Methylnaphthalene         | 0.611 | 0.595 | 2.6   | 80    | 0.00     |
| 38   | 1-Methylnaphthalene         | 0.584 | 0.571 | 2.2   | 80    | 0.00     |
| 39 I | Acenaphthene-d10            | 1.000 | 1.000 | 0.0   | 79    | 0.00     |
| 40   | 1,2,4,5-Tetrachlorobenzene  | 0.604 | 0.655 | -8.4  | 82    | 0.00     |
| 41 P | Hexachlorocyclopentadiene   | 0.383 | 0.408 | -6.5  | 77    | 0.00     |
| 42 S | 2,4,6-Tribromophenol        | 0.296 | 0.324 | -9.5  | 78    | 0.00     |
| 43 C | 2,4,6-Trichlorophenol       | 0.378 | 0.418 | -10.6 | 78    | 0.00     |
| 44   | 2,4,5-Trichlorophenol       | 0.395 | 0.403 | -2.0  | 75    | 0.00     |
| 45 S | 2-Fluorobiphenyl            | 1.282 | 1.393 | -8.7  | 81    | 0.00     |
| 46   | 1,1'-Biphenyl               | 1.448 | 1.524 | -5.2  | 80    | 0.00     |
| 47   | 2-Chloronaphthalene         | 1.165 | 1.233 | -5.8  | 80    | 0.00     |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF092525\  
 Data File : BF143802.D  
 Acq On : 25 Sep 2025 13:06  
 Operator : RC/JU  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 LabSampleId :  
 SSTDCCC040

Quant Time: Sep 25 14:33:57 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF092325.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Sep 24 05:00:00 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) |
|------|----------------------------|-------|-------|-------|-------|----------|
| 48   | 2-Nitroaniline             | 0.352 | 0.387 | -9.9  | 76    | 0.00     |
| 49   | Acenaphthylene             | 1.604 | 1.679 | -4.7  | 78    | 0.00     |
| 50   | Dimethylphthalate          | 1.219 | 1.236 | -1.4  | 76    | 0.00     |
| 51   | 2,6-Dinitrotoluene         | 0.200 | 0.216 | -8.0  | 75    | 0.00     |
| 52 C | Acenaphthene               | 1.056 | 1.080 | -2.3  | 77    | 0.00     |
| 53   | 3-Nitroaniline             | 0.243 | 0.269 | -10.7 | 75    | 0.00     |
| 54 P | 2,4-Dinitrophenol          | 0.064 | 0.055 | 14.1  | 68    | 0.00     |
| 55   | Dibenzofuran               | 1.493 | 1.563 | -4.7  | 79    | 0.00     |
| 56 P | 4-Nitrophenol              | 0.196 | 0.194 | 1.0   | 73    | 0.00     |
| 57   | 2,4-Dinitrotoluene         | 0.261 | 0.284 | -8.8  | 73    | 0.00     |
| 58   | Fluorene                   | 1.110 | 1.133 | -2.1  | 78    | 0.00     |
| 59   | 2,3,4,6-Tetrachlorophenol  | 0.339 | 0.367 | -8.3  | 78    | 0.00     |
| 60   | Diethylphthalate           | 1.141 | 1.135 | 0.5   | 74    | 0.00     |
| 61   | 4-Chlorophenyl-phenylether | 0.566 | 0.574 | -1.4  | 76    | 0.00     |
| 62   | 4-Nitroaniline             | 0.228 | 0.238 | -4.4  | 71    | -0.01    |
| 63   | Azobenzene                 | 1.203 | 1.212 | -0.7  | 75    | 0.00     |
| 64 I | Phenanthrene-d10           | 1.000 | 1.000 | 0.0   | 75    | 0.00     |
| 65   | 4,6-Dinitro-2-methylphenol | 0.067 | 0.064 | 4.5   | 70    | 0.00     |
| 66 c | n-Nitrosodiphenylamine     | 0.658 | 0.695 | -5.6  | 77    | 0.00     |
| 67   | 4-Bromophenyl-phenylether  | 0.341 | 0.362 | -6.2  | 76    | 0.00     |
| 68   | Hexachlorobenzene          | 0.470 | 0.502 | -6.8  | 77    | 0.00     |
| 69   | Atrazine                   | 0.190 | 0.199 | -4.7  | 71    | 0.00     |
| 70 C | Pentachlorophenol          | 0.234 | 0.250 | -6.8  | 74    | 0.00     |
| 71   | Phenanthrene               | 1.027 | 1.090 | -6.1  | 76    | 0.00     |
| 72   | Anthracene                 | 1.030 | 1.081 | -5.0  | 75    | 0.00     |
| 73   | Carbazole                  | 0.901 | 0.964 | -7.0  | 74    | 0.00     |
| 74   | Di-n-butylphthalate        | 1.036 | 1.140 | -10.0 | 74    | 0.00     |
| 75 C | Fluoranthene               | 1.033 | 1.115 | -7.9  | 74    | 0.00     |
| 76 I | Chrysene-d12               | 1.000 | 1.000 | 0.0   | 74    | 0.00     |
| 77   | Benzydine                  | 0.487 | 0.481 | 1.2   | 69    | 0.00     |
| 78   | Pyrene                     | 0.983 | 1.009 | -2.6  | 74    | 0.00     |
| 79 S | Terphenyl-d14              | 0.983 | 1.053 | -7.1  | 76    | 0.00     |
| 80   | Butylbenzylphthalate       | 0.340 | 0.368 | -8.2  | 69    | 0.00     |
| 81   | Benzo(a)anthracene         | 1.074 | 1.093 | -1.8  | 70    | 0.00     |
| 82   | 3,3'-Dichlorobenzidine     | 0.465 | 0.465 | 0.0   | 69    | 0.00     |
| 83   | Chrysene                   | 0.972 | 1.030 | -6.0  | 75    | 0.00     |
| 84   | Bis(2-ethylhexyl)phthalate | 0.499 | 0.540 | -8.2  | 71    | 0.00     |
| 85 c | Di-n-octyl phthalate       | 0.905 | 0.923 | -2.0  | 67    | 0.00     |
| 86 I | Perylene-d12               | 1.000 | 1.000 | 0.0   | 72    | 0.00     |
| 87   | Indeno(1,2,3-cd)pyrene     | 1.517 | 1.634 | -7.7  | 73    | -0.02    |
| 88   | Benzo(b)fluoranthene       | 1.018 | 1.038 | -2.0  | 68    | 0.00     |
| 89   | Benzo(k)fluoranthene       | 1.023 | 0.941 | 8.0   | 62    | -0.01    |
| 90 C | Benzo(a)pyrene             | 0.957 | 1.005 | -5.0  | 70    | -0.01    |
| 91   | Dibenzo(a,h)anthracene     | 1.241 | 1.343 | -8.2  | 72    | -0.02    |
| 92   | Benzo(g,h,i)perylene       | 1.196 | 1.287 | -7.6  | 72    | -0.03    |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF092525\  
Data File : BF143802.D  
Acq On : 25 Sep 2025 13:06  
Operator : RC/JU  
Sample : SSTDCCC040  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
BNA\_F  
LabSampleId :  
SSTDCCC040

Quant Time: Sep 25 14:33:57 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF092325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Sep 24 05:00:00 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) |
|----------|-------|------|------|-------|----------|
|----------|-------|------|------|-------|----------|

(#) = Out of Range

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



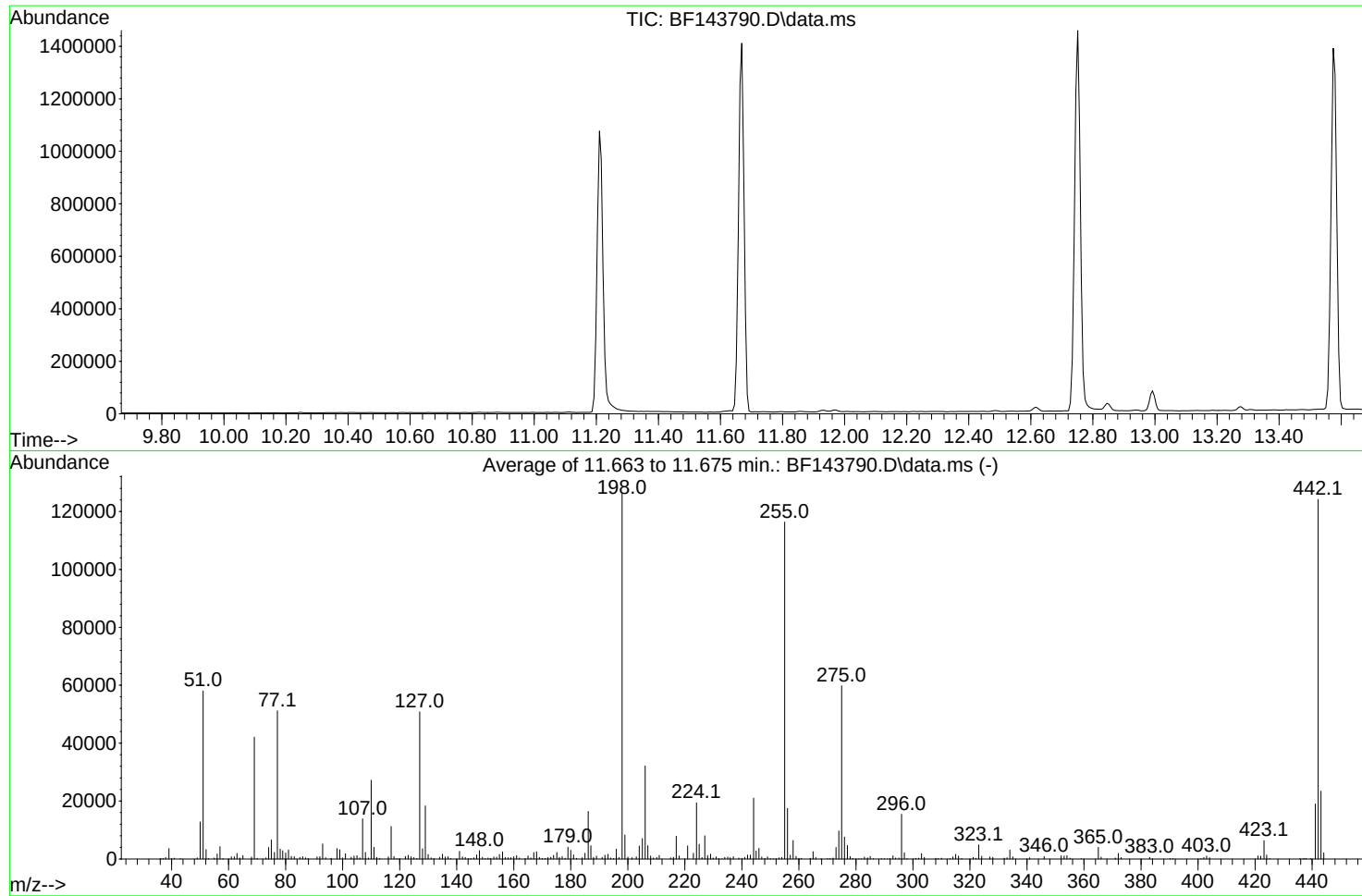
# QC SAMPLE DATA

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF092325\  
Data File : BF143790.D  
Acq On : 23 Sep 2025 09:31  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF092325.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
Last Update : Wed Sep 24 05:00:00 2025



AutoFind: Scans 1610, 1611, 1612; Background Corrected with Scan 1604

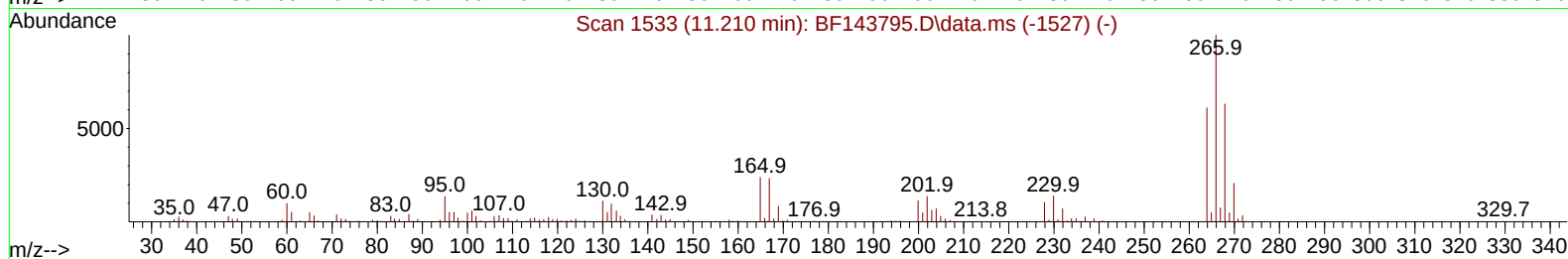
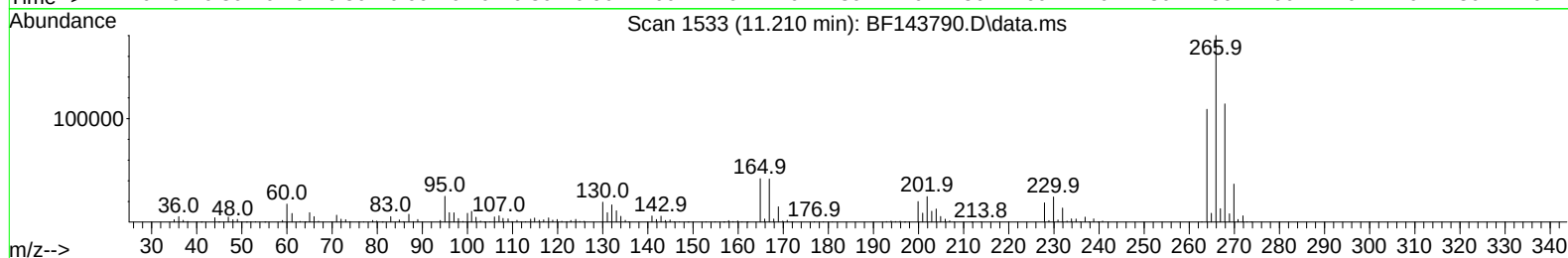
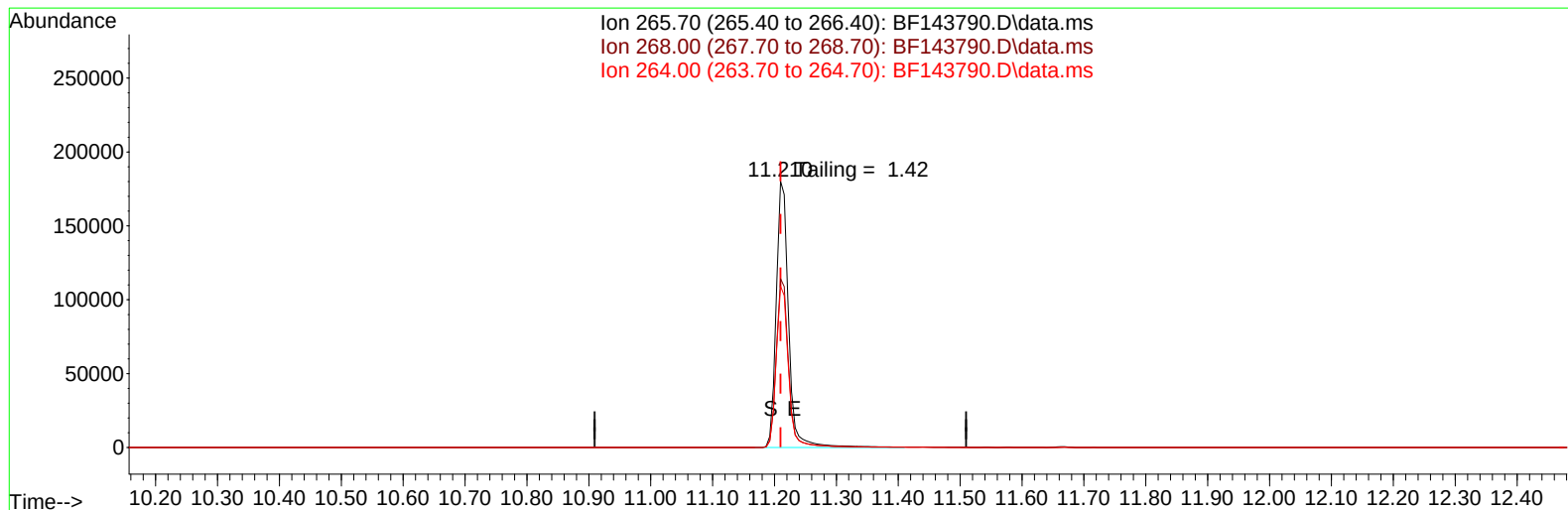
| Target | Rel. to | Lower  | Upper  | Rel.  | Raw    | Result    |
|--------|---------|--------|--------|-------|--------|-----------|
| Mass   | Mass    | Limit% | Limit% | Abn%  | Abn    | Pass/Fail |
| 68     | 69      | 0.00   | 2      | 1.6   | 670    | PASS      |
| 69     | 69      | 100    | 100    | 100.0 | 42104  | PASS      |
| 70     | 69      | 0.00   | 2      | 0.6   | 252    | PASS      |
| 197    | 198     | 0.00   | 2      | 0.4   | 514    | PASS      |
| 198    | 198     | 100    | 100    | 100.0 | 126099 | PASS      |
| 199    | 198     | 5      | 9      | 6.6   | 8311   | PASS      |
| 365    | 198     | 1      | 100    | 3.2   | 4006   | PASS      |
| 441    | 443     | 0.01   | 150    | 81.4  | 19061  | PASS      |
| 442    | 442     | 100    | 100    | 100.0 | 124205 | PASS      |
| 443    | 442     | 15     | 24     | 18.9  | 23416  | PASS      |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF092325\  
Data File : BF143790.D  
Acq On : 23 Sep 2025 09:31  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
DFTPP

Quant Time: Sep 23 14:37:29 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF092325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Sep 23 14:30:38 2025  
Response via : Initial Calibration



TIC: BF143790.D\data.ms

**(70) Pentachlorophenol (C)**

11.210min (+ 0.000) 32047.58 ng

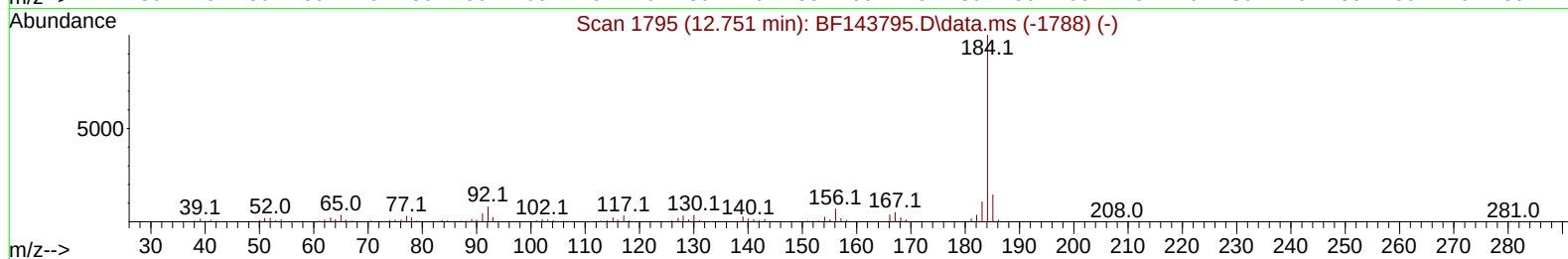
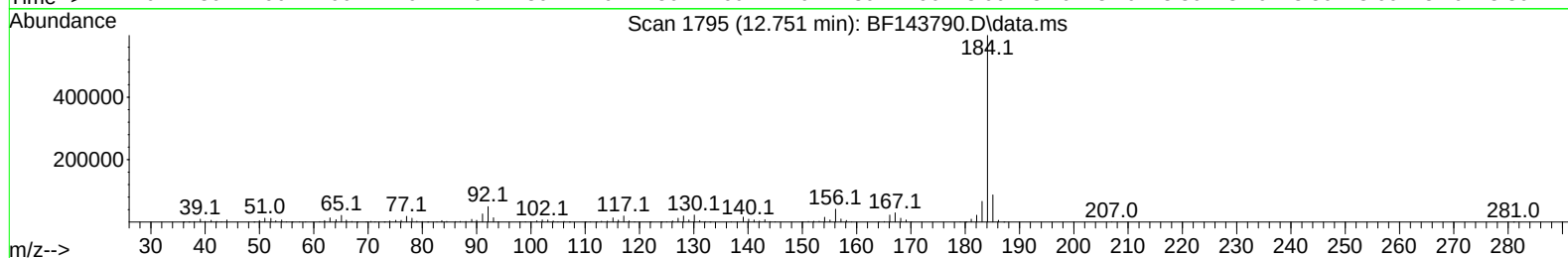
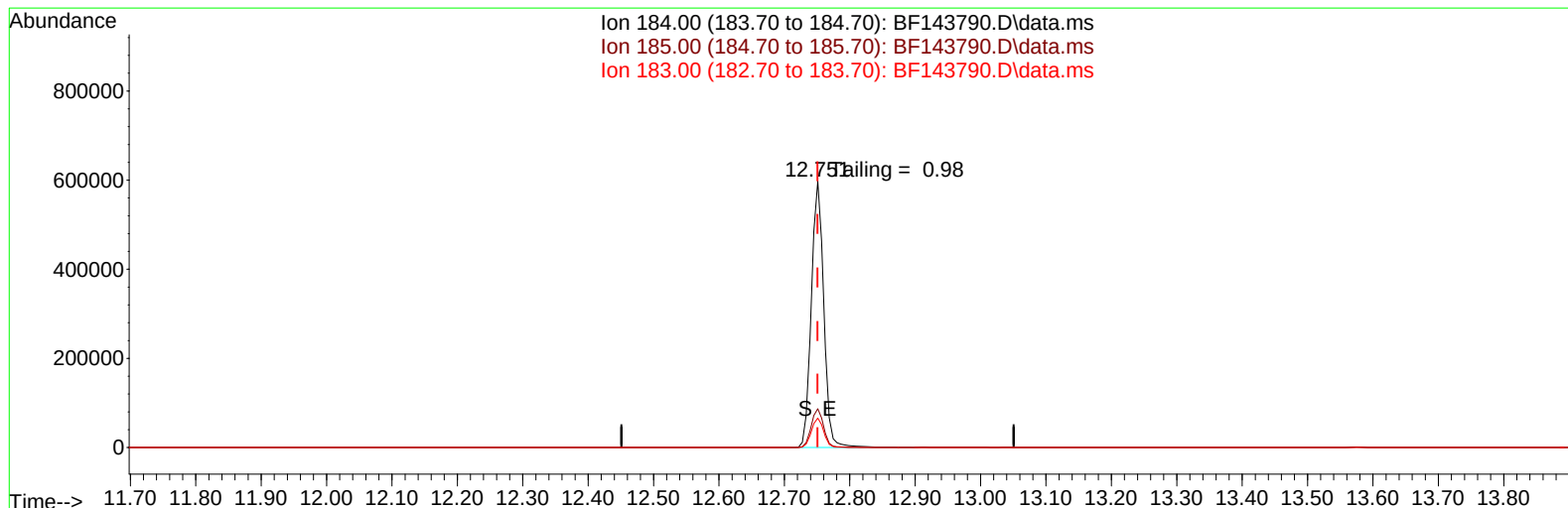
response 252838

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 265.70 | 100.00 | 100.00 |
| 268.00 | 63.10  | 63.36  |
| 264.00 | 61.00  | 60.49  |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF092325\  
Data File : BF143790.D  
Acq On : 23 Sep 2025 09:31  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
DFTPP

Quant Time: Sep 23 14:37:29 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF092325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Sep 23 14:30:38 2025  
Response via : Initial Calibration



TIC: BF143790.D\data.ms

**(77) Benzidine**

**12.751min (+ 0.000) 22811.55 ng**

**response 789331**

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 184.00 | 100.00 | 100.00 |
| 185.00 | 14.50  | 14.56  |
| 183.00 | 10.80  | 11.07  |
| 0.00   | 0.00   | 0.00   |

# DDT Breakdown

| Date          | Instrument Name  | DFTPP Data File    |
|---------------|------------------|--------------------|
| 9/23/2025     | BNA_F            | <u>BF143790.D</u>  |
|               |                  |                    |
|               |                  |                    |
| Compound Name | Response         | Retention Time     |
|               |                  |                    |
| DDT           | 356414           | 13.574             |
| DDD           | 5539             | 13.274             |
| DDE           | 649              | 12.939             |
|               |                  |                    |
|               |                  |                    |
| SUM(DDD+DDE)  | SUM(DDT+DDD+DDE) | % Breakdown Of DDT |
|               |                  |                    |
| 6188          | 362602           | 1.71               |
|               |                  |                    |

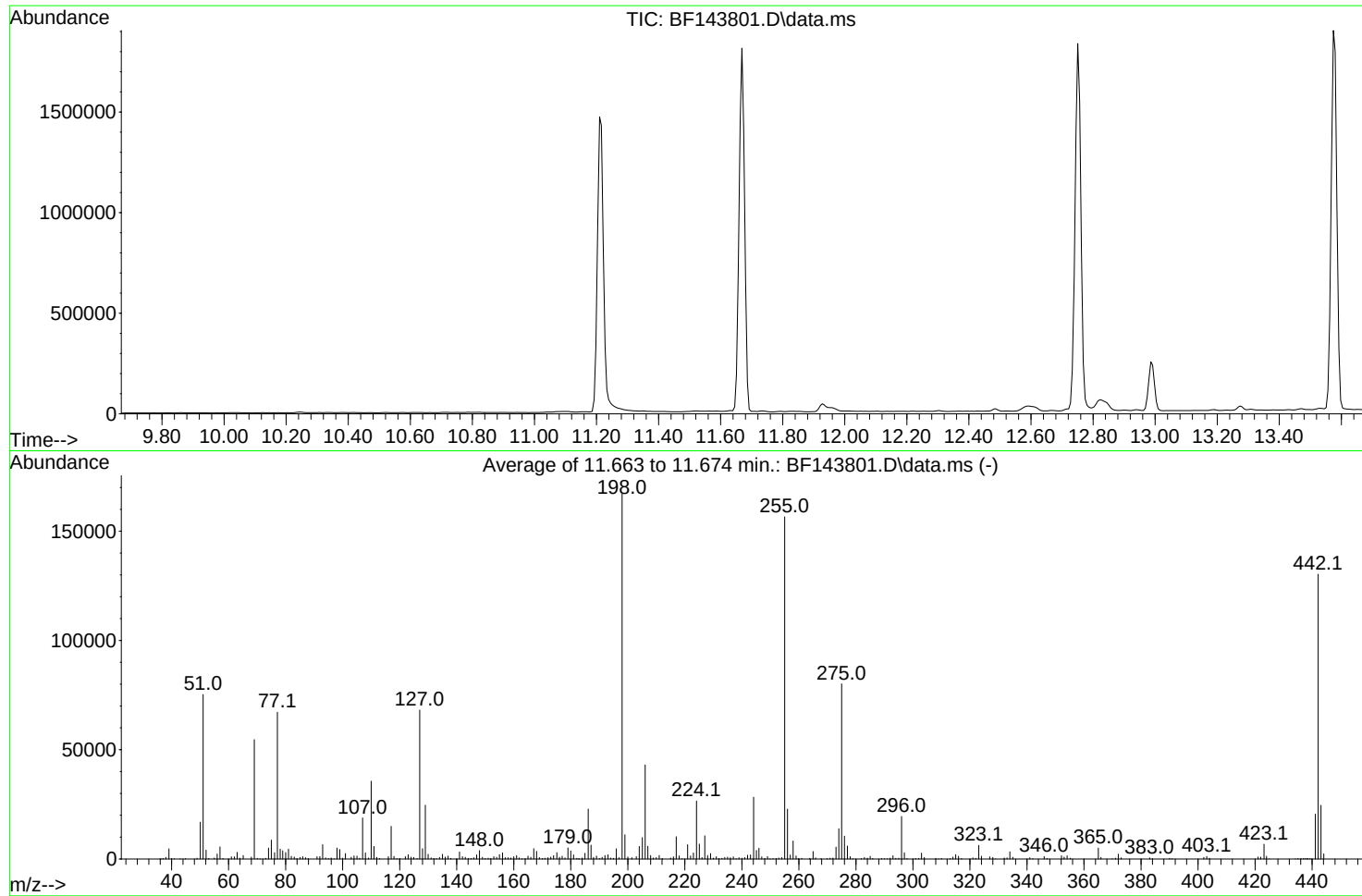
Instrument :  
BNA\_F  
ClientSampleId :  
DFTPP

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF092525\  
Data File : BF143801.D  
Acq On : 25 Sep 2025 12:03  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF092325.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
Last Update : Wed Sep 24 05:00:00 2025



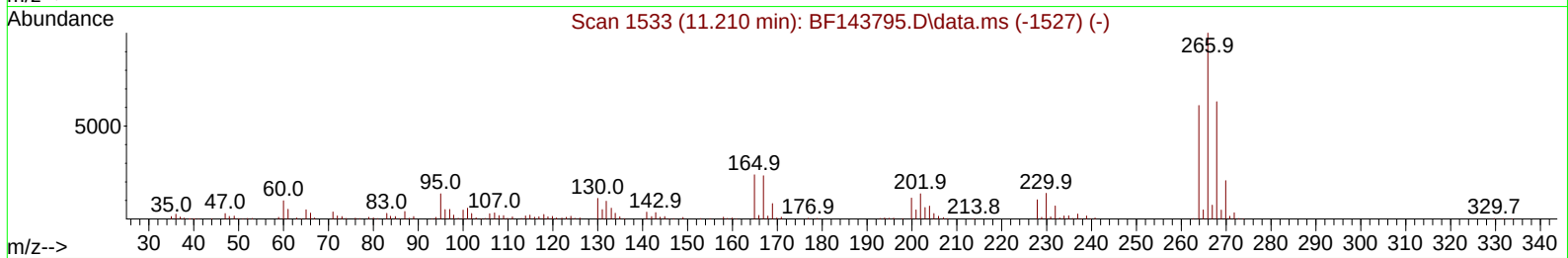
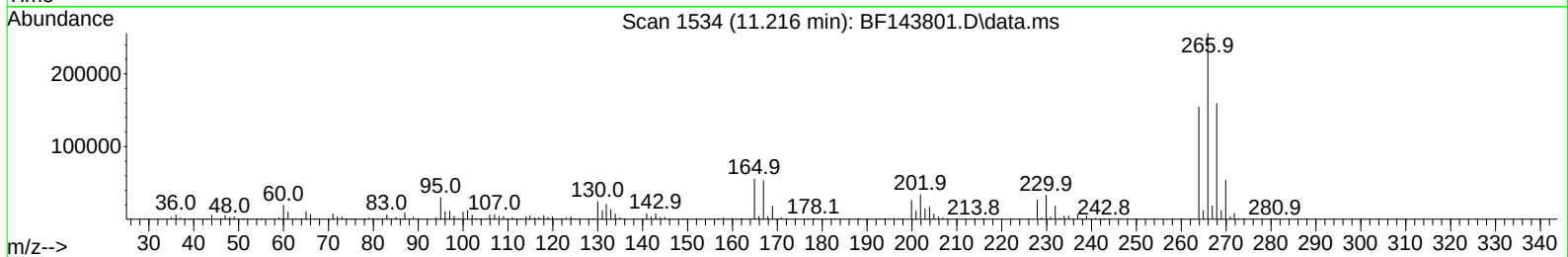
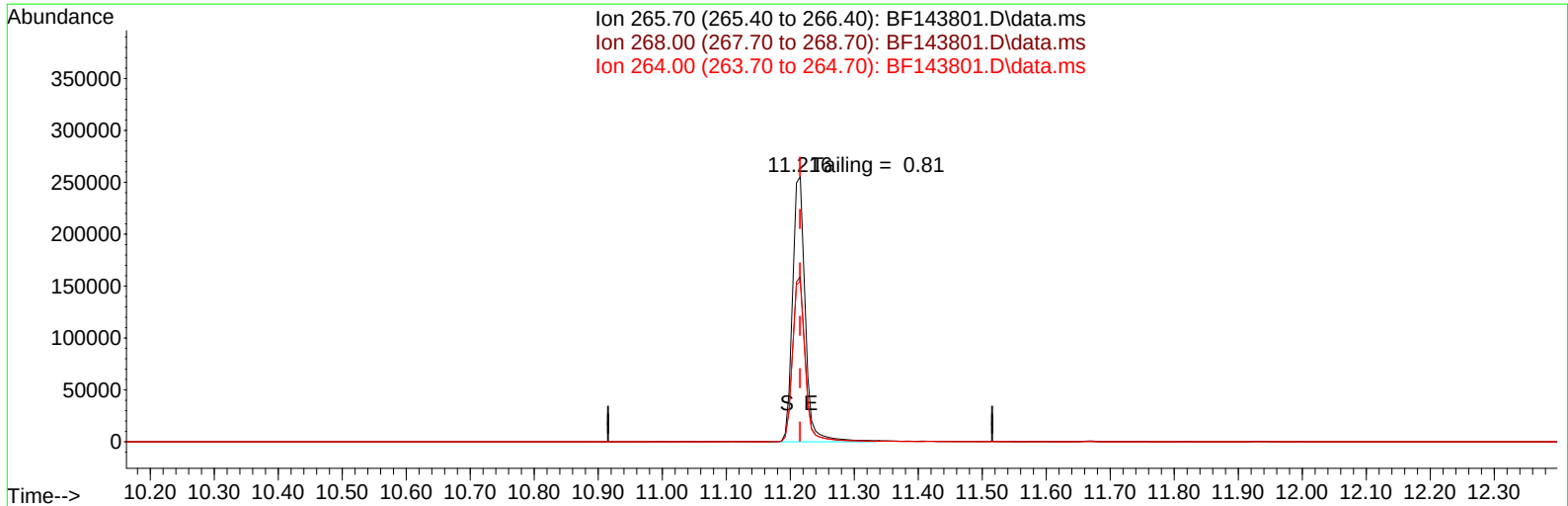
AutoFind: Scans 1610, 1611, 1612; Background Corrected with Scan 1603

| 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               | 1.5          | 818        | PASS                |
| 69             | 69              | 100             | 100             | 100.0        | 54649      | PASS                |
| 70             | 69              | 0.00            | 2               | 0.5          | 280        | PASS                |
| 197            | 198             | 0.00            | 2               | 0.3          | 572        | PASS                |
| 198            | 198             | 100             | 100             | 100.0        | 167104     | PASS                |
| 199            | 198             | 5               | 9               | 6.6          | 11091      | PASS                |
| 365            | 198             | 1               | 100             | 3.0          | 4982       | PASS                |
| 441            | 443             | 0.01            | 150             | 83.4         | 20469      | PASS                |
| 442            | 442             | 100             | 100             | 100.0        | 130317     | PASS                |
| 443            | 442             | 15              | 24              | 18.8         | 24531      | PASS                |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF092525\  
Data File : BF143801.D  
Acq On : 25 Sep 2025 12:03  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
DFTPP

Quant Time: Sep 25 12:28:08 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF092325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Sep 24 05:00:00 2025  
Response via : Initial Calibration



TIC: BF143801.D\data.ms

**(70) Pentachlorophenol (C)**

**11.216min (-0.000) 38670.72 ng**

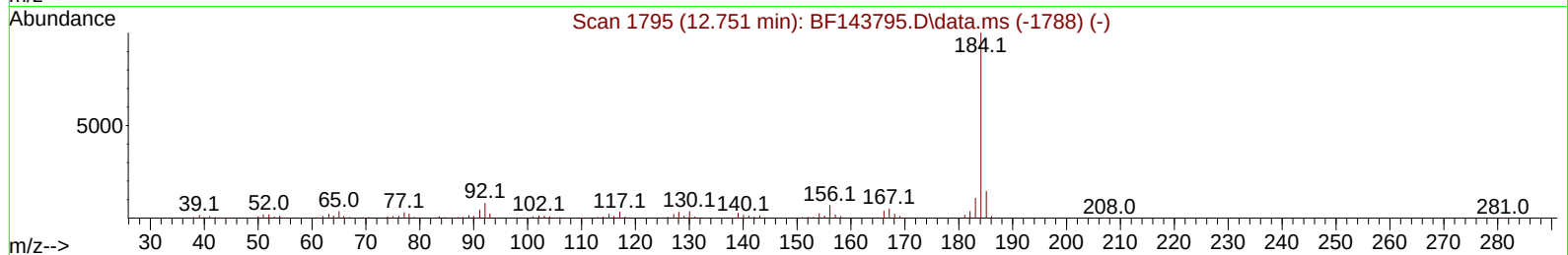
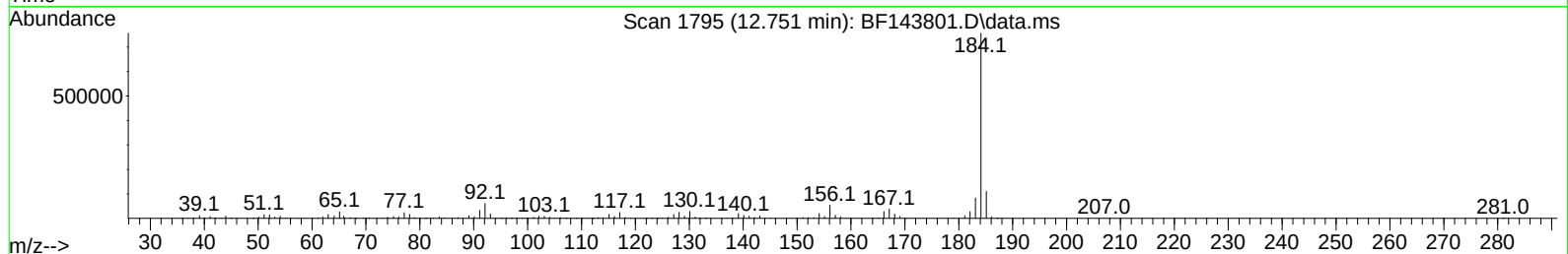
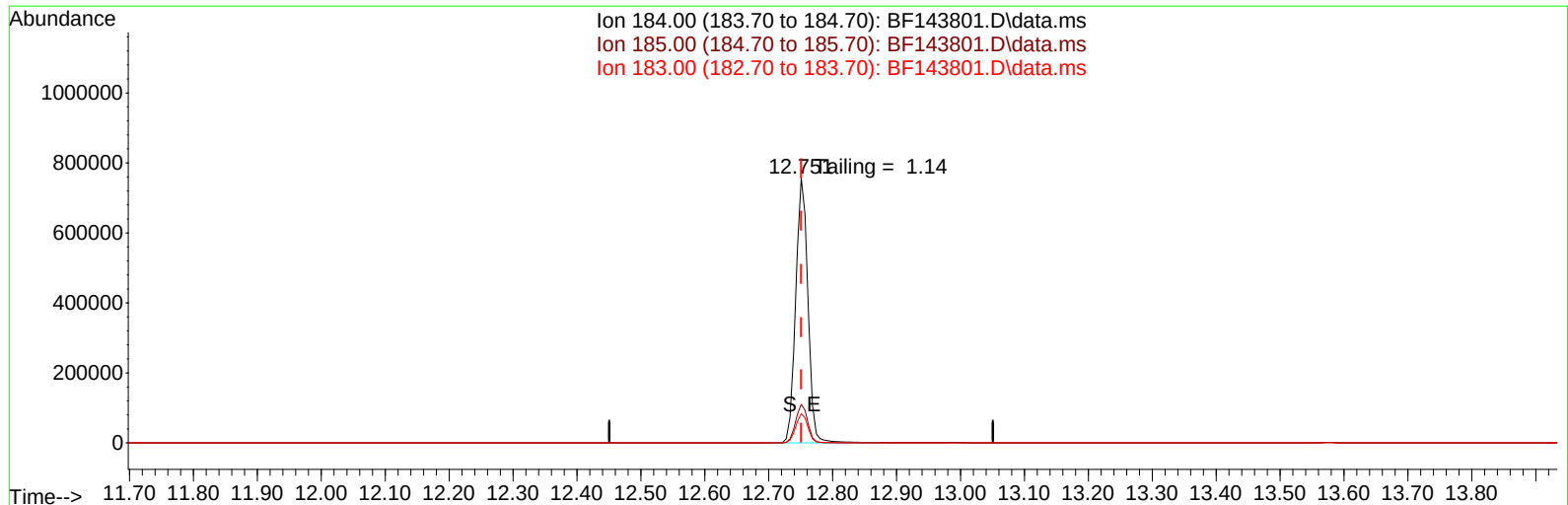
**response 355330**

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 265.70 | 100.00 | 100.00 |
| 268.00 | 63.10  | 62.16  |
| 264.00 | 61.00  | 60.46  |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF092525\  
Data File : BF143801.D  
Acq On : 25 Sep 2025 12:03  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
DFTPP

Quant Time: Sep 25 12:28:08 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF092325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Sep 24 05:00:00 2025  
Response via : Initial Calibration



TIC: BF143801.D\data.ms

**(77) Benzidine**

**12.751min ( 0.000) 5496.52 ng**

**response 1007617**

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 184.00 | 100.00 | 100.00 |
| 185.00 | 14.50  | 14.54  |
| 183.00 | 10.80  | 11.02  |
| 0.00   | 0.00   | 0.00   |

### DDT Breakdown

| Date          | Instrument Name  | DFTPP Data File    |
|---------------|------------------|--------------------|
| 9/25/2025     | BNA_F            | <u>BF143801.D</u>  |
|               |                  |                    |
|               |                  |                    |
| Compound Name | Response         | Retention Time     |
|               |                  |                    |
| DDT           | 502047           | 13.574             |
| DDD           | 7723             | 13.274             |
| DDE           | 1204             | 12.939             |
|               |                  |                    |
|               |                  |                    |
| SUM(DDD+DDE)  | SUM(DDT+DDD+DDE) | % Breakdown Of DDT |
|               |                  |                    |
| 8927          | 510974           | 1.75               |
|               |                  |                    |

Instrument :  
BNA\_F  
ClientSampleId :  
DFTPP

## Report of Analysis

|                    |                        |                 |                              |
|--------------------|------------------------|-----------------|------------------------------|
| Client:            | Weston Solutions, Inc. | Date Collected: |                              |
| Project:           | RFP 916                | Date Received:  |                              |
| Client Sample ID:  | PB169827BL             | SDG No.:        | Q3178                        |
| Lab Sample ID:     | PB169827BL             | Matrix:         | SOIL                         |
| Analytical Method: | 8270E                  | % Solid:        | 100                          |
| Sample Wt/Vol:     | 30.01      Units:    g | Final Vol:      | 1000                      uL |
| Soil Aliquot Vol:  | uL                     | Test:           | SVOC-TCL BNA -20             |
| Extraction Type :  | Decanted :      N      | Level :         | LOW                          |
| Injection Volume : | GPC Factor :    1.0    | GPC Cleanup :   | N                      PH :  |
| Prep Method :      | SW3541                 |                 |                              |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BF143803.D        | 1         | 09/25/25 09:25 | 09/25/25 13:46 | PB169827      |

| CAS Number     | Parameter                   | Conc. | Qualifier | MDL  | LOQ / CRQL | Units(Dry Weight) |
|----------------|-----------------------------|-------|-----------|------|------------|-------------------|
| <b>TARGETS</b> |                             |       |           |      |            |                   |
| 100-52-7       | Benzaldehyde                | 160   | U         | 160  | 330        | ug/Kg             |
| 108-95-2       | Phenol                      | 22.1  | U         | 22.1 | 170        | ug/Kg             |
| 111-44-4       | bis(2-Chloroethyl)ether     | 24.3  | U         | 24.3 | 170        | ug/Kg             |
| 95-57-8        | 2-Chlorophenol              | 24.4  | U         | 24.4 | 170        | ug/Kg             |
| 95-48-7        | 2-Methylphenol              | 29.9  | U         | 29.9 | 170        | ug/Kg             |
| 108-60-1       | 2,2-oxybis(1-Chloropropane) | 37.5  | U         | 37.5 | 170        | ug/Kg             |
| 98-86-2        | Acetophenone                | 29.5  | U         | 29.5 | 170        | ug/Kg             |
| 65794-96-9     | 3+4-Methylphenols           | 41.1  | U         | 41.1 | 330        | ug/Kg             |
| 621-64-7       | n-Nitroso-di-n-propylamine  | 47.4  | U         | 47.4 | 80.0       | ug/Kg             |
| 67-72-1        | Hexachloroethane            | 17.6  | U         | 17.6 | 170        | ug/Kg             |
| 98-95-3        | Nitrobenzene                | 18.3  | U         | 18.3 | 170        | ug/Kg             |
| 78-59-1        | Isophorone                  | 32.8  | U         | 32.8 | 170        | ug/Kg             |
| 88-75-5        | 2-Nitrophenol               | 58.2  | U         | 58.2 | 170        | ug/Kg             |
| 105-67-9       | 2,4-Dimethylphenol          | 64.8  | U         | 64.8 | 170        | ug/Kg             |
| 111-91-1       | bis(2-Chloroethoxy)methane  | 30.8  | U         | 30.8 | 170        | ug/Kg             |
| 120-83-2       | 2,4-Dichlorophenol          | 28.3  | U         | 28.3 | 170        | ug/Kg             |
| 91-20-3        | Naphthalene                 | 22.7  | U         | 22.7 | 170        | ug/Kg             |
| 106-47-8       | 4-Chloroaniline             | 35.4  | U         | 35.4 | 170        | ug/Kg             |
| 87-68-3        | Hexachlorobutadiene         | 25.3  | U         | 25.3 | 170        | ug/Kg             |
| 105-60-2       | Caprolactam                 | 52.1  | U         | 52.1 | 330        | ug/Kg             |
| 59-50-7        | 4-Chloro-3-methylphenol     | 28.7  | U         | 28.7 | 170        | ug/Kg             |
| 91-57-6        | 2-Methylnaphthalene         | 25.6  | U         | 25.6 | 170        | ug/Kg             |
| 77-47-4        | Hexachlorocyclopentadiene   | 120   | U         | 120  | 330        | ug/Kg             |
| 88-06-2        | 2,4,6-Trichlorophenol       | 19.8  | U         | 19.8 | 170        | ug/Kg             |
| 95-95-4        | 2,4,5-Trichlorophenol       | 29.1  | U         | 29.1 | 170        | ug/Kg             |
| 92-52-4        | 1,1-Biphenyl                | 21.8  | U         | 21.8 | 170        | ug/Kg             |
| 91-58-7        | 2-Chloronaphthalene         | 22.5  | U         | 22.5 | 170        | ug/Kg             |
| 88-74-4        | 2-Nitroaniline              | 48.1  | U         | 48.1 | 170        | ug/Kg             |
| 131-11-3       | Dimethylphthalate           | 27.1  | U         | 27.1 | 170        | ug/Kg             |



## Report of Analysis

|                    |                        |                 |                              |
|--------------------|------------------------|-----------------|------------------------------|
| Client:            | Weston Solutions, Inc. | Date Collected: |                              |
| Project:           | RFP 916                | Date Received:  |                              |
| Client Sample ID:  | PB169827BL             | SDG No.:        | Q3178                        |
| Lab Sample ID:     | PB169827BL             | Matrix:         | SOIL                         |
| Analytical Method: | 8270E                  | % Solid:        | 100                          |
| Sample Wt/Vol:     | 30.01      Units:    g | Final Vol:      | 1000                      uL |
| Soil Aliquot Vol:  | uL                     | Test:           | SVOC-TCL BNA -20             |
| Extraction Type :  | Decanted :      N      | Level :         | LOW                          |
| Injection Volume : | GPC Factor :    1.0    | GPC Cleanup :   | N                      PH :  |
| Prep Method :      | SW3541                 |                 |                              |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BF143803.D        | 1         | 09/25/25 09:25 | 09/25/25 13:46 | PB169827      |

| CAS Number | Parameter                  | Conc. | Qualifier | MDL  | LOQ / CRQL | Units(Dry Weight) |
|------------|----------------------------|-------|-----------|------|------------|-------------------|
| 208-96-8   | Acenaphthylene             | 28.9  | U         | 28.9 | 170        | ug/Kg             |
| 606-20-2   | 2,6-Dinitrotoluene         | 33.6  | U         | 33.6 | 170        | ug/Kg             |
| 99-09-2    | 3-Nitroaniline             | 46.0  | U         | 46.0 | 170        | ug/Kg             |
| 83-32-9    | Acenaphthene               | 21.3  | U         | 21.3 | 170        | ug/Kg             |
| 51-28-5    | 2,4-Dinitrophenol          | 230   | U         | 230  | 330        | ug/Kg             |
| 100-02-7   | 4-Nitrophenol              | 110   | U         | 110  | 330        | ug/Kg             |
| 132-64-9   | Dibenzofuran               | 22.7  | U         | 22.7 | 170        | ug/Kg             |
| 121-14-2   | 2,4-Dinitrotoluene         | 50.1  | U         | 50.1 | 170        | ug/Kg             |
| 84-66-2    | Diethylphthalate           | 28.3  | U         | 28.3 | 170        | ug/Kg             |
| 7005-72-3  | 4-Chlorophenyl-phenylether | 26.7  | U         | 26.7 | 170        | ug/Kg             |
| 86-73-7    | Fluorene                   | 25.3  | U         | 25.3 | 170        | ug/Kg             |
| 100-01-6   | 4-Nitroaniline             | 64.2  | U         | 64.2 | 170        | ug/Kg             |
| 534-52-1   | 4,6-Dinitro-2-methylphenol | 100   | U         | 100  | 330        | ug/Kg             |
| 86-30-6    | n-Nitrosodiphenylamine     | 32.9  | U         | 32.9 | 170        | ug/Kg             |
| 101-55-3   | 4-Bromophenyl-phenylether  | 27.8  | U         | 27.8 | 170        | ug/Kg             |
| 118-74-1   | Hexachlorobenzene          | 25.3  | U         | 25.3 | 170        | ug/Kg             |
| 1912-24-9  | Atrazine                   | 34.0  | U         | 34.0 | 170        | ug/Kg             |
| 87-86-5    | Pentachlorophenol          | 51.3  | U         | 51.3 | 330        | ug/Kg             |
| 85-01-8    | Phenanthrene               | 20.9  | U         | 20.9 | 170        | ug/Kg             |
| 120-12-7   | Anthracene                 | 33.3  | U         | 33.3 | 170        | ug/Kg             |
| 86-74-8    | Carbazole                  | 31.2  | U         | 31.2 | 170        | ug/Kg             |
| 84-74-2    | Di-n-butylphthalate        | 47.9  | U         | 47.9 | 170        | ug/Kg             |
| 206-44-0   | Fluoranthene               | 30.0  | U         | 30.0 | 170        | ug/Kg             |
| 129-00-0   | Pyrene                     | 36.0  | U         | 36.0 | 170        | ug/Kg             |
| 85-68-7    | Butylbenzylphthalate       | 71.4  | U         | 71.4 | 170        | ug/Kg             |
| 91-94-1    | 3,3-Dichlorobenzidine      | 36.7  | U         | 36.7 | 330        | ug/Kg             |
| 56-55-3    | Benzo(a)anthracene         | 23.0  | U         | 23.0 | 170        | ug/Kg             |
| 218-01-9   | Chrysene                   | 19.9  | U         | 19.9 | 170        | ug/Kg             |
| 117-81-7   | Bis(2-ethylhexyl)phthalate | 59.2  | U         | 59.2 | 170        | ug/Kg             |
| 117-84-0   | Di-n-octyl phthalate       | 86.8  | U         | 86.8 | 330        | ug/Kg             |
| 205-99-2   | Benzo(b)fluoranthene       | 19.0  | U         | 19.0 | 170        | ug/Kg             |

## Report of Analysis

|                    |                        |                 |                              |
|--------------------|------------------------|-----------------|------------------------------|
| Client:            | Weston Solutions, Inc. | Date Collected: |                              |
| Project:           | RFP 916                | Date Received:  |                              |
| Client Sample ID:  | PB169827BL             | SDG No.:        | Q3178                        |
| Lab Sample ID:     | PB169827BL             | Matrix:         | SOIL                         |
| Analytical Method: | 8270E                  | % Solid:        | 100                          |
| Sample Wt/Vol:     | 30.01      Units:    g | Final Vol:      | 1000                      uL |
| Soil Aliquot Vol:  | uL                     | Test:           | SVOC-TCL BNA -20             |
| Extraction Type :  | Decanted :      N      | Level :         | LOW                          |
| Injection Volume : | GPC Factor :    1.0    | GPC Cleanup :   | N                      PH :  |
| Prep Method :      | SW3541                 |                 |                              |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BF143803.D        | 1         | 09/25/25 09:25 | 09/25/25 13:46 | PB169827      |

| CAS Number                            | Parameter                       | Conc.  | Qualifier | MDL      | LOQ / CRQL | Units(Dry Weight) |
|---------------------------------------|---------------------------------|--------|-----------|----------|------------|-------------------|
| 207-08-9                              | Benzo(k)fluoranthene            | 22.4   | U         | 22.4     | 170        | ug/Kg             |
| 50-32-8                               | Benzo(a)pyrene                  | 29.5   | U         | 29.5     | 170        | ug/Kg             |
| 193-39-5                              | Indeno(1,2,3-cd)pyrene          | 29.1   | U         | 29.1     | 170        | ug/Kg             |
| 53-70-3                               | Dibenzo(a,h)anthracene          | 27.4   | U         | 27.4     | 170        | ug/Kg             |
| 191-24-2                              | Benzo(g,h,i)perylene            | 25.7   | U         | 25.7     | 170        | ug/Kg             |
| 95-94-3                               | 1,2,4,5-Tetrachlorobenzene      | 25.6   | U         | 25.6     | 170        | ug/Kg             |
| 123-91-1                              | 1,4-Dioxane                     | 45.2   | U         | 45.2     | 170        | ug/Kg             |
| 58-90-2                               | 2,3,4,6-Tetrachlorophenol       | 27.4   | U         | 27.4     | 170        | ug/Kg             |
| <b>SURROGATES</b>                     |                                 |        |           |          |            |                   |
| 367-12-4                              | 2-Fluorophenol                  | 242    |           | 18 - 112 | 81%        | SPK: 300          |
| 13127-88-3                            | Phenol-d6                       | 246    |           | 15 - 107 | 82%        | SPK: 300          |
| 4165-60-0                             | Nitrobenzene-d5                 | 185    |           | 18 - 107 | 92%        | SPK: 200          |
| 321-60-8                              | 2-Fluorobiphenyl                | 165    |           | 20 - 109 | 82%        | SPK: 200          |
| 118-79-6                              | 2,4,6-Tribromophenol            | 205    |           | 10 - 116 | 68%        | SPK: 300          |
| 1718-51-0                             | Terphenyl-d14                   | 213    | *         | 10 - 105 | 107%       | SPK: 200          |
| <b>INTERNAL STANDARDS</b>             |                                 |        |           |          |            |                   |
| 3855-82-1                             | 1,4-Dichlorobenzene-d4          | 90600  |           | 6.886    |            |                   |
| 1146-65-2                             | Naphthalene-d8                  | 350000 |           | 8.163    |            |                   |
| 15067-26-2                            | Acenaphthene-d10                | 191000 |           | 9.922    |            |                   |
| 1517-22-2                             | Phenanthrene-d10                | 314000 |           | 11.41    |            |                   |
| 1719-03-5                             | Chrysene-d12                    | 279000 |           | 14.051   |            |                   |
| 1520-96-3                             | Perylene-d12                    | 321000 |           | 15.533   |            |                   |
| <b>TENTATIVE IDENTIFIED COMPOUNDS</b> |                                 |        |           |          |            |                   |
| 006311-48-4                           | (1,1-Biphenyl)-4,4-diamine, N,N | 350    | J         |          | 17.2       | ug/Kg             |

## Report of Analysis

|                    |                        |                 |                              |
|--------------------|------------------------|-----------------|------------------------------|
| Client:            | Weston Solutions, Inc. | Date Collected: |                              |
| Project:           | RFP 916                | Date Received:  |                              |
| Client Sample ID:  | PB169827BL             | SDG No.:        | Q3178                        |
| Lab Sample ID:     | PB169827BL             | Matrix:         | SOIL                         |
| Analytical Method: | 8270E                  | % Solid:        | 100                          |
| Sample Wt/Vol:     | 30.01      Units:    g | Final Vol:      | 1000                      uL |
| Soil Aliquot Vol:  | uL                     | Test:           | SVOC-TCL BNA -20             |
| Extraction Type :  | Decanted :    N        | Level :         | LOW                          |
| Injection Volume : | GPC Factor :    1.0    | GPC Cleanup :   | N                      PH :  |
| Prep Method :      | SW3541                 |                 |                              |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BF143803.D        | 1         | 09/25/25 09:25 | 09/25/25 13:46 | PB169827      |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|------------|-----------|-------|-----------|-----|------------|-------------------|
|------------|-----------|-------|-----------|-----|------------|-------------------|

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\_F\Data\BF092525\  
Data File : BF143803.D  
Acq On : 25 Sep 2025 13:46  
Operator : RC/JU  
Sample : PB169827BL  
Misc :  
ALS Vial : 3 Sample Multiplier: 2

Instrument :  
BNA\_F  
ClientSampleId :  
PB169827BL

Quant Time: Sep 25 14:34:17 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF092325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Sep 24 05:00:00 2025  
Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-----------------------------|--------|------|----------|---------|-------|----------|
| -----                       |        |      |          |         |       |          |
| Internal Standards          |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 6.886  | 152  | 181119   | 40.000  | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.163  | 136  | 699988   | 40.000  | ng    | 0.00     |
| 39) Acenaphthene-d10        | 9.922  | 164  | 382723   | 40.000  | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.410 | 188  | 628340   | 40.000  | ng    | 0.00     |
| 76) Chrysene-d12            | 14.051 | 240  | 557779   | 40.000  | ng    | -0.01    |
| 86) Perylene-d12            | 15.533 | 264  | 642668   | 40.000  | ng    | 0.00     |
|                             |        |      |          |         |       |          |
| System Monitoring Compounds |        |      |          |         |       |          |
| 5) 2-Fluorophenol           | 5.510  | 112  | 1350528  | 121.147 | ng    | 0.01     |
| 7) Phenol-d6                | 6.504  | 99   | 1583008  | 122.899 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.445  | 82   | 1057786  | 92.500  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.710 | 330  | 582036   | 102.709 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.245  | 172  | 2019445  | 82.340  | ng    | 0.00     |
| 79) Terphenyl-d14           | 13.004 | 244  | 2921898  | 106.537 | ng    | 0.00     |

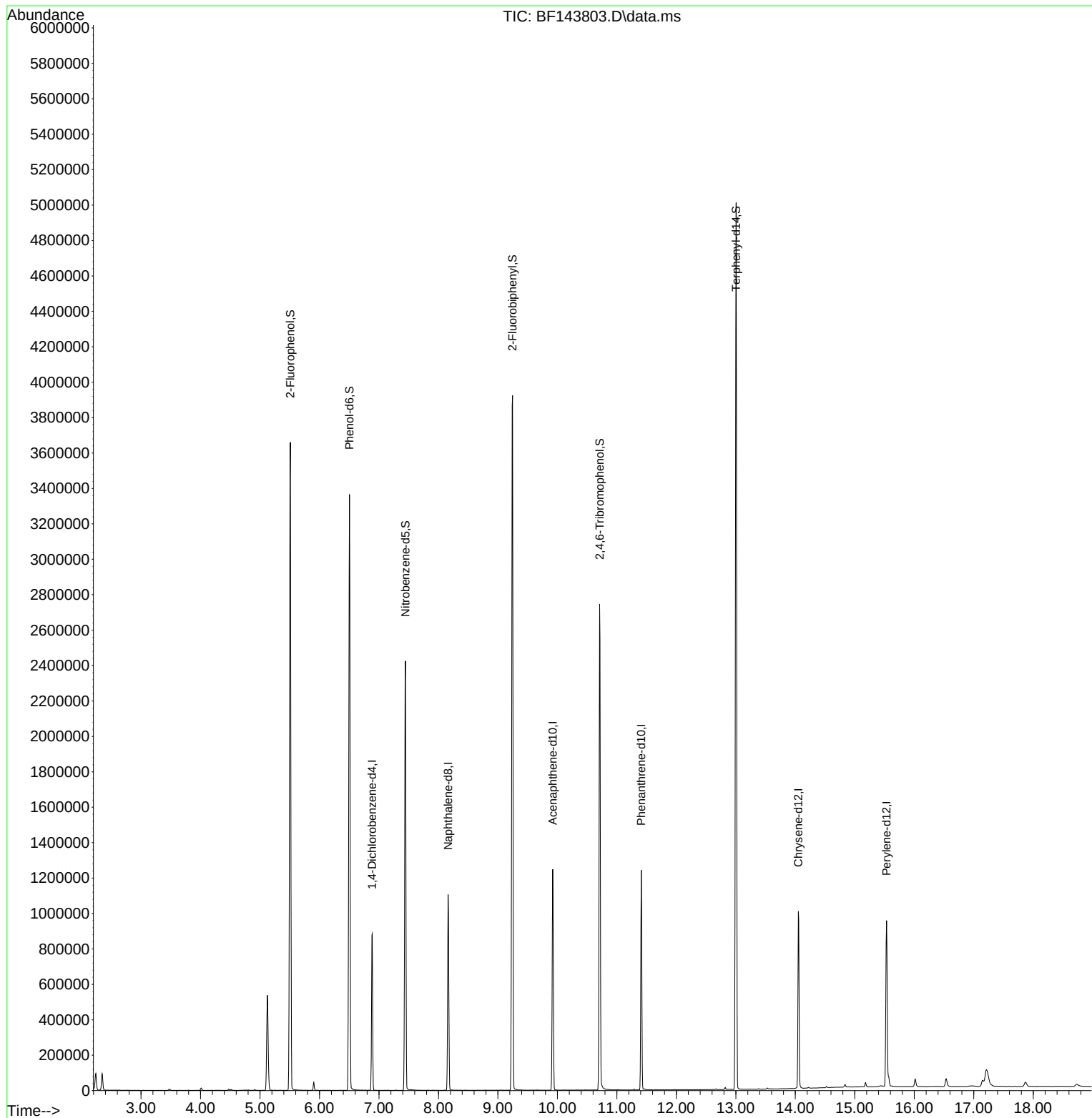
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

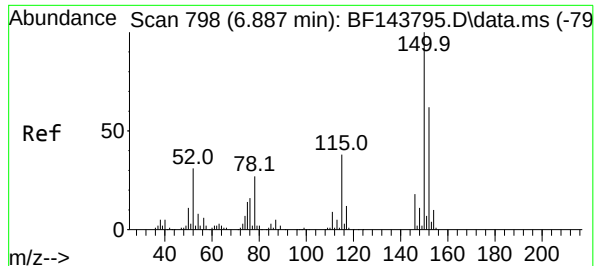
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF092525\  
Data File : BF143803.D  
Acq On : 25 Sep 2025 13:46  
Operator : RC/JU  
Sample : PB169827BL  
Misc :  
ALS Vial : 3 Sample Multiplier: 2

Instrument :  
BNA\_F  
ClientSampleId :  
PB169827BL

Quant Time: Sep 25 14:34:17 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF092325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Sep 24 05:00:00 2025  
Response via : Initial Calibration

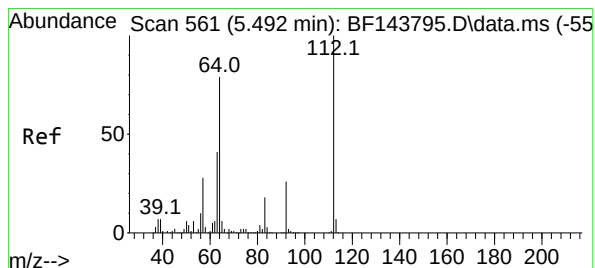
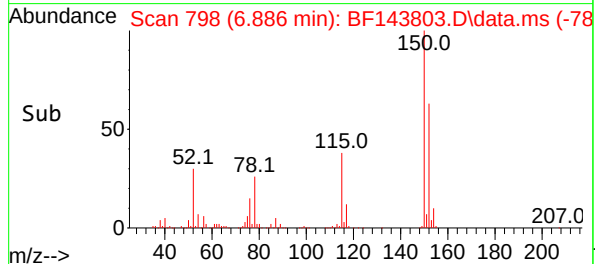
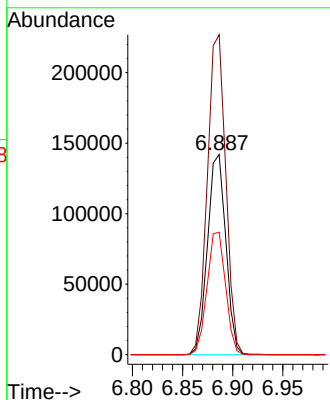
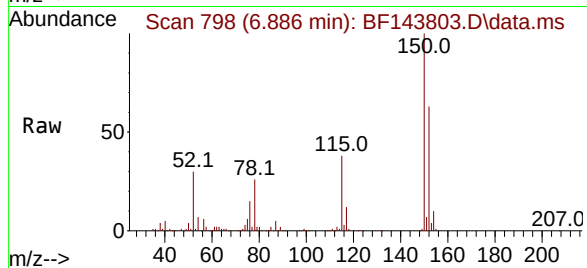




#1  
1,4-Dichlorobenzene-d4  
Concen: 40.000 ng  
RT: 6.886 min Scan# 798  
Delta R.T. -0.000 min  
Lab File: BF143803.D  
Acq: 25 Sep 2025 13:46

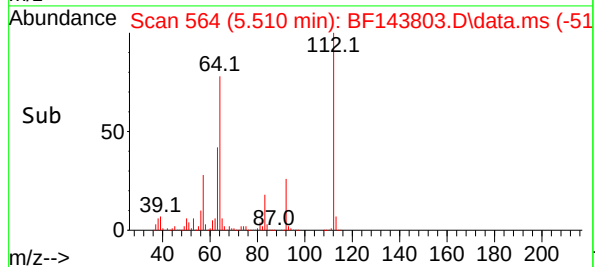
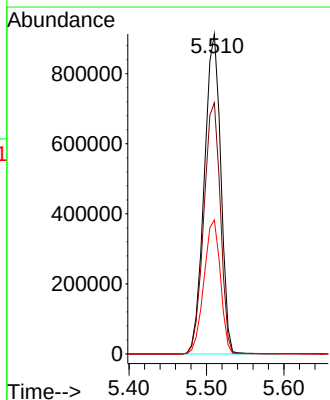
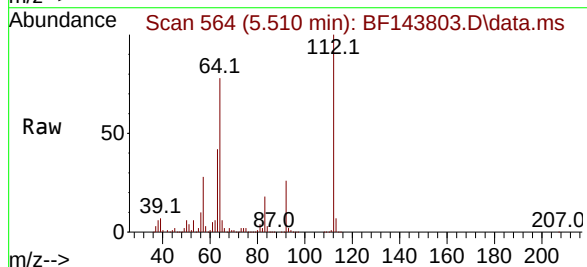
Instrument :  
BNA\_F  
ClientSampleId :  
PB169827BL

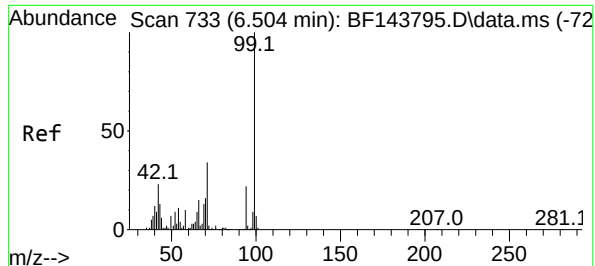
Tgt Ion:152 Resp: 181119  
Ion Ratio Lower Upper  
152 100  
150 159.9 129.6 194.4  
115 61.2 49.0 73.4



#5  
2-Fluorophenol  
Concen: 121.147 ng  
RT: 5.510 min Scan# 564  
Delta R.T. 0.012 min  
Lab File: BF143803.D  
Acq: 25 Sep 2025 13:46

Tgt Ion:112 Resp: 1350528  
Ion Ratio Lower Upper  
112 100  
64 78.5 63.0 94.4  
63 41.8 32.6 49.0

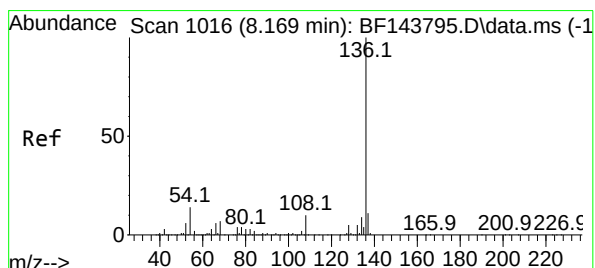
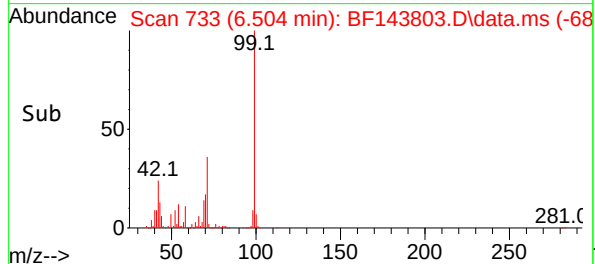
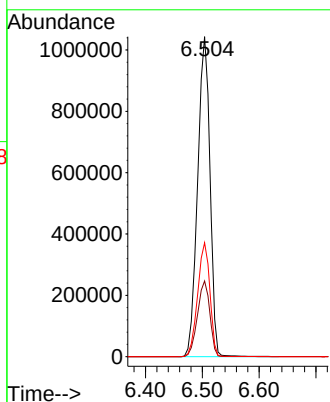
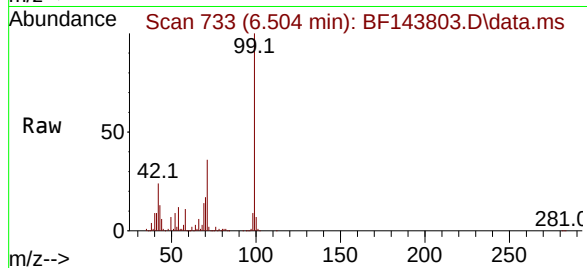




#7  
Phenol-d6  
Concen: 122.899 ng  
RT: 6.504 min Scan# 71  
Delta R.T. -0.006 min  
Lab File: BF143803.D  
Acq: 25 Sep 2025 13:46

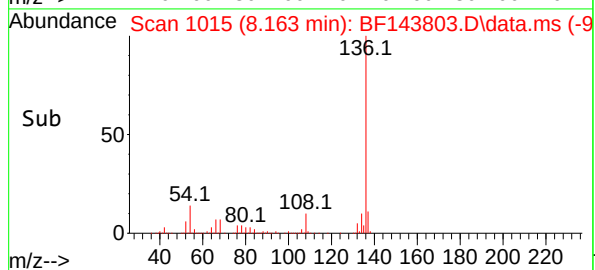
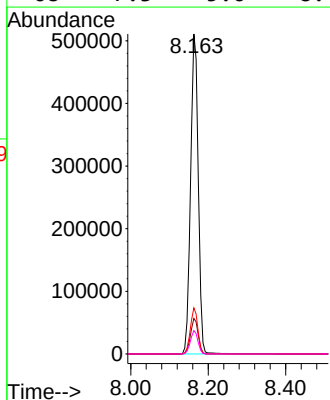
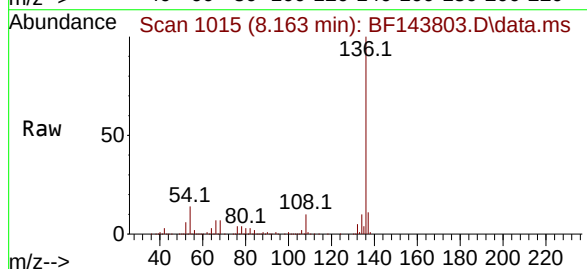
Instrument :  
BNA\_F  
ClientSampleId :  
PB169827BL

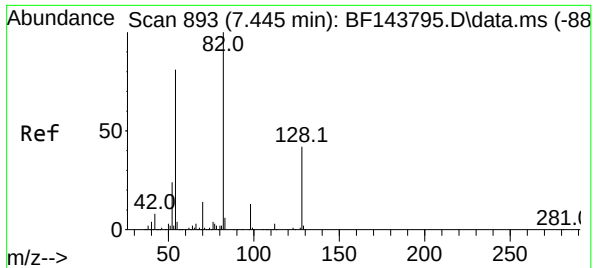
Tgt Ion: 99 Resp: 1583008  
Ion Ratio Lower Upper  
99 100  
42 23.7 18.6 28.0  
71 35.6 27.0 40.4



#21  
Naphthalene-d8  
Concen: 40.000 ng  
RT: 8.163 min Scan# 1015  
Delta R.T. -0.006 min  
Lab File: BF143803.D  
Acq: 25 Sep 2025 13:46

Tgt Ion: 136 Resp: 699988  
Ion Ratio Lower Upper  
136 100  
137 11.1 9.0 13.4  
54 14.4 11.2 16.8  
68 7.3 5.6 8.4





#23

Nitrobenzene-d5

Concen: 92.500 ng

RT: 7.445 min Scan# 893

Delta R.T. -0.006 min

Lab File: BF143803.D

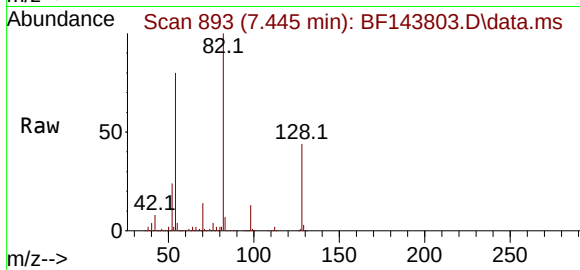
Acq: 25 Sep 2025 13:46

Instrument :

BNA\_F

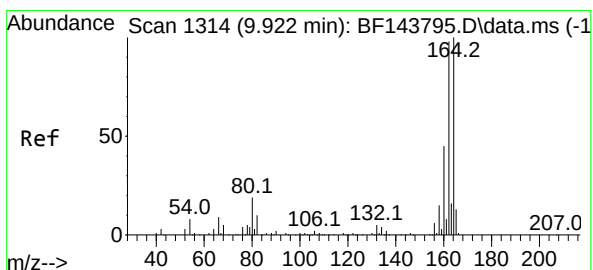
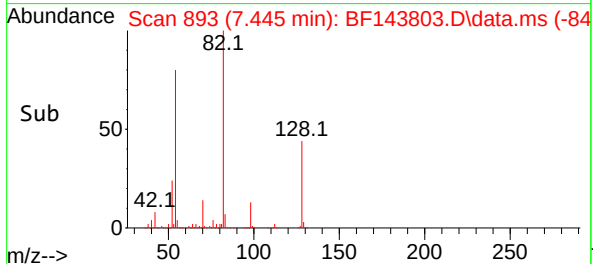
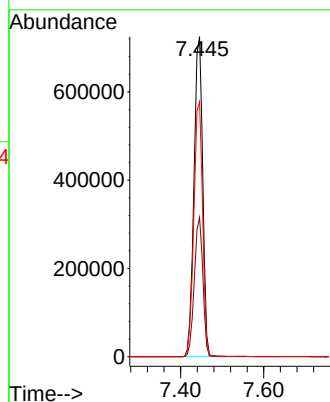
ClientSampleId :

PB169827BL



Tgt Ion: 82 Resp: 1057786

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 82  | 100   |       |       |
| 128 | 43.5  | 33.3  | 49.9  |
| 54  | 79.6  | 64.2  | 96.4  |



#39

Acenaphthene-d10

Concen: 40.000 ng

RT: 9.922 min Scan# 1314

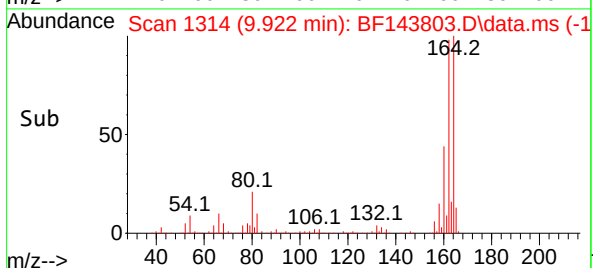
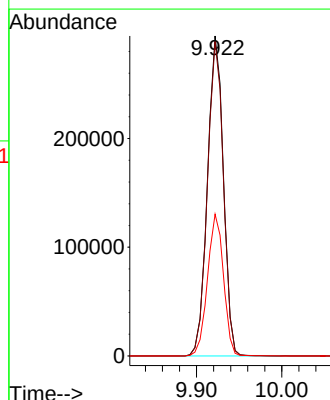
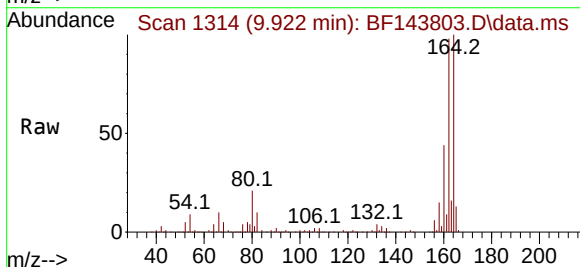
Delta R.T. -0.006 min

Lab File: BF143803.D

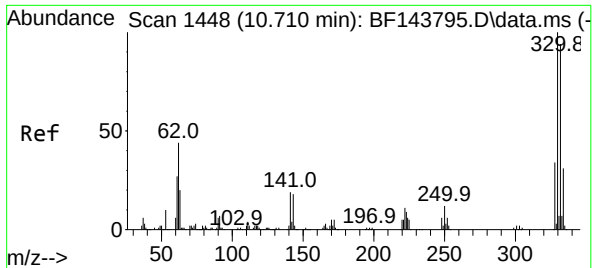
Acq: 25 Sep 2025 13:46

Tgt Ion: 164 Resp: 382723

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 162 | 98.2  | 78.8  | 118.2 |
| 160 | 44.3  | 35.8  | 53.6  |



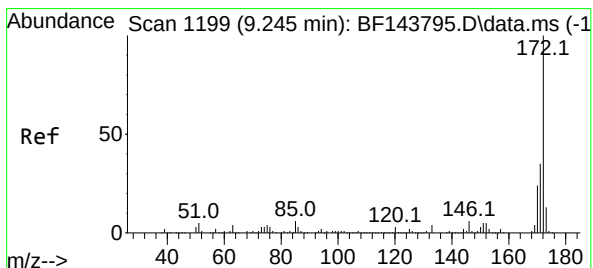
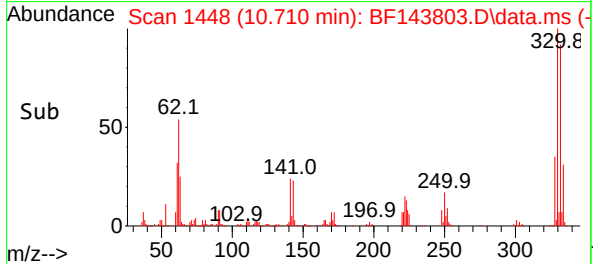
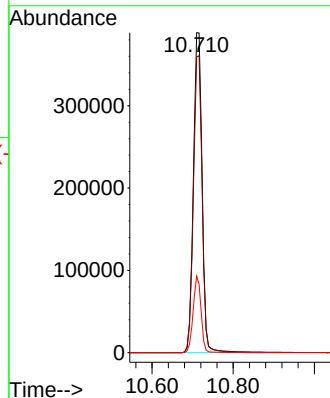
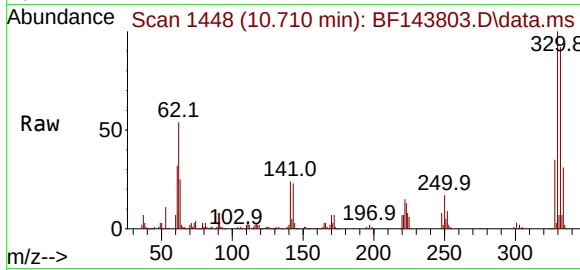




#42  
2,4,6-Tribromophenol  
Concen: 102.709 ng  
RT: 10.710 min Scan# 1448  
Delta R.T. -0.006 min  
Lab File: BF143803.D  
Acq: 25 Sep 2025 13:46

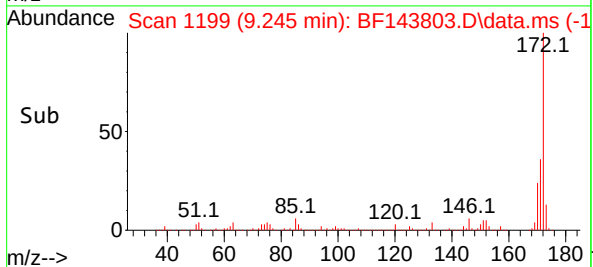
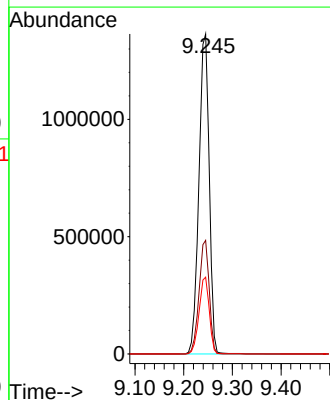
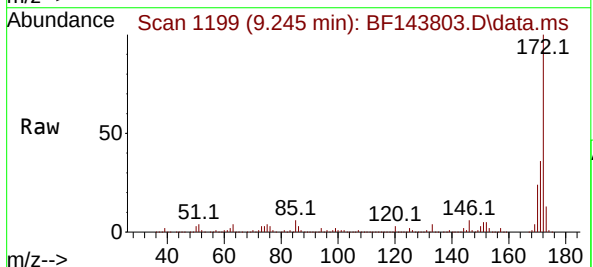
Instrument :  
BNA\_F  
ClientSampleId :  
PB169827BL

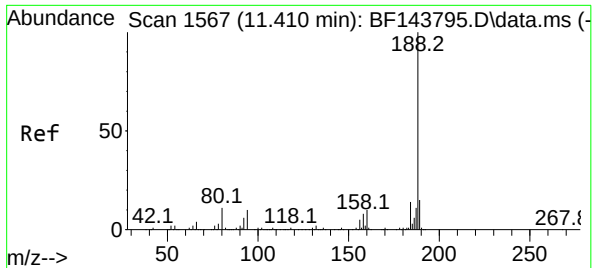
Tgt Ion:330 Resp: 582036  
Ion Ratio Lower Upper  
330 100  
332 93.1 74.7 112.1  
141 21.7 14.3 21.5#



#45  
2-Fluorobiphenyl  
Concen: 82.340 ng  
RT: 9.245 min Scan# 1199  
Delta R.T. 0.000 min  
Lab File: BF143803.D  
Acq: 25 Sep 2025 13:46

Tgt Ion:172 Resp: 2019445  
Ion Ratio Lower Upper  
172 100  
171 35.5 27.9 41.9  
170 24.0 19.1 28.7

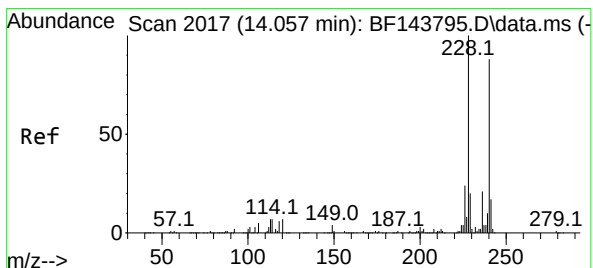
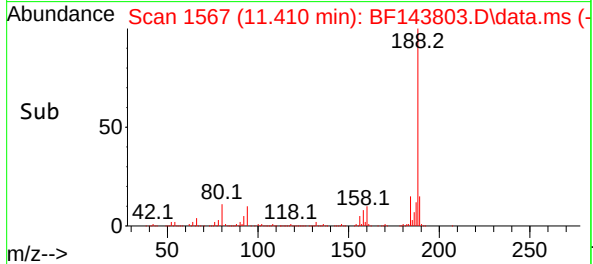
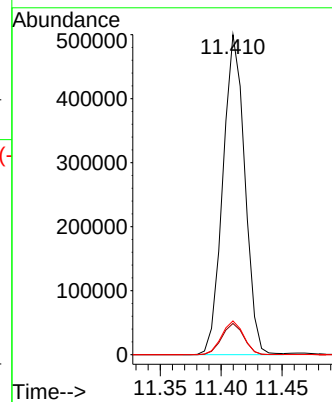
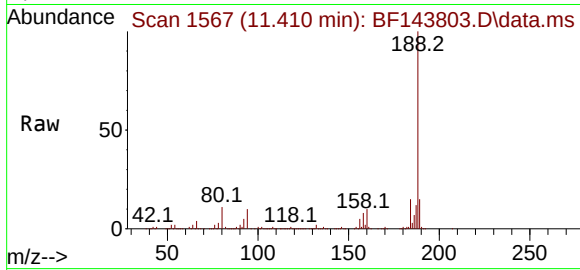




#64  
Phenanthrene-d10  
Concen: 40.000 ng  
RT: 11.410 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: BF143803.D  
Acq: 25 Sep 2025 13:46

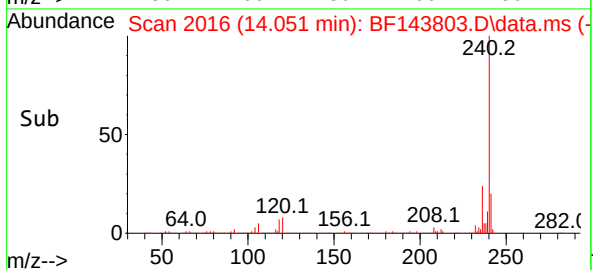
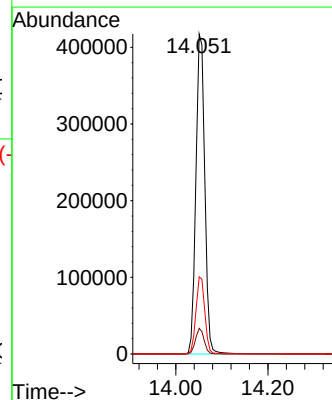
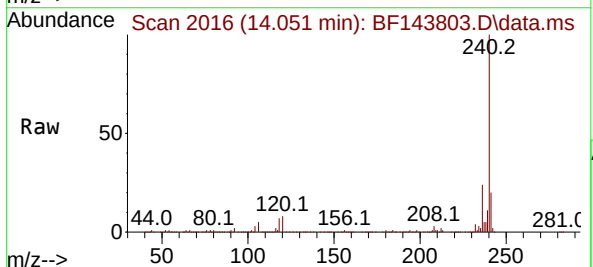
Instrument :  
BNA\_F  
ClientSampleId :  
PB169827BL

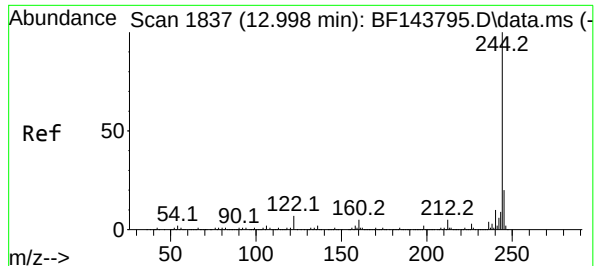
Tgt Ion:188 Resp: 628340  
Ion Ratio Lower Upper  
188 100  
94 9.8 8.2 12.2  
80 10.5 8.6 12.8



#76  
Chrysene-d12  
Concen: 40.000 ng  
RT: 14.051 min Scan# 2016  
Delta R.T. -0.012 min  
Lab File: BF143803.D  
Acq: 25 Sep 2025 13:46

Tgt Ion:240 Resp: 557779  
Ion Ratio Lower Upper  
240 100  
120 8.0 6.2 9.4  
236 24.1 19.4 29.2





#79

Terphenyl-d14

Concen: 106.537 ng

RT: 13.004 min Scan# 1838

Delta R.T. -0.000 min

Lab File: BF143803.D

Acq: 25 Sep 2025 13:46

Instrument :

BNA\_F

ClientSampleId :

PB169827BL

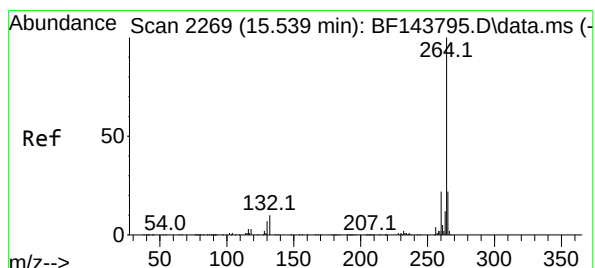
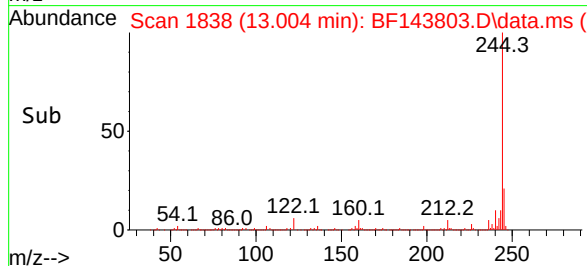
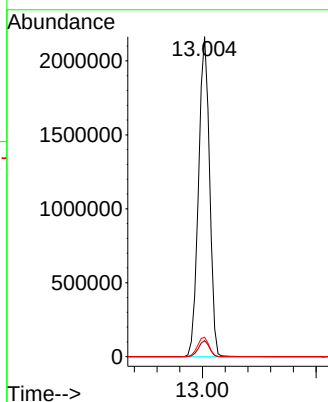
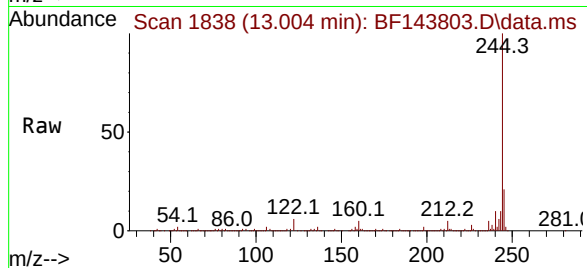
Tgt Ion:244 Resp: 2921898

Ion Ratio Lower Upper

244 100

212 5.0 3.9 5.9

122 6.0 5.6 8.4



#86

Perylene-d12

Concen: 40.000 ng

RT: 15.533 min Scan# 2268

Delta R.T. -0.006 min

Lab File: BF143803.D

Acq: 25 Sep 2025 13:46

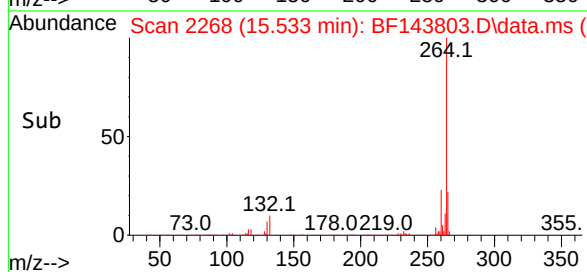
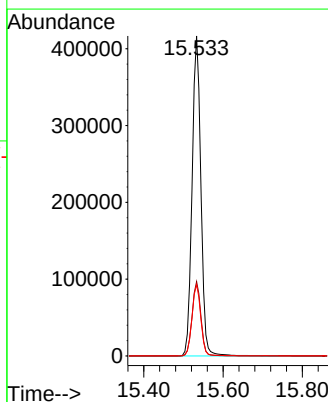
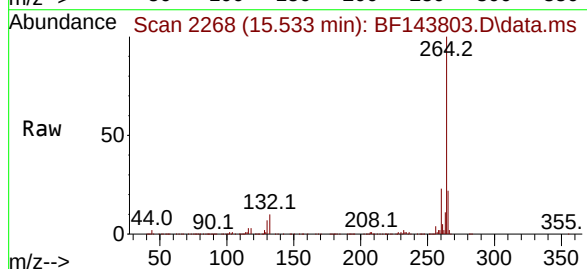
Tgt Ion:264 Resp: 642668

Ion Ratio Lower Upper

264 100

260 23.2 17.9 26.9

265 22.3 17.7 26.5



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF092525\  
 Data File : BF143803.D  
 Acq On : 25 Sep 2025 13:46  
 Operator : RC/JU  
 Sample : PB169827BL  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 2

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB169827BL

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF092325.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF143803.D\data.ms

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 2.240       | 3             | 8           | 18           | rVB      | 92986          | 154508        | 2.29%           | 0.378%        |
| 2         | 2.346       | 18            | 26          | 34           | rVB      | 93722          | 150611        | 2.23%           | 0.368%        |
| 3         | 5.122       | 488           | 498         | 512          | rBV      | 536898         | 914544        | 13.56%          | 2.235%        |
| 4         | 5.510       | 557           | 564         | 569          | rBV      | 3659379        | 5419125       | 80.33%          | 13.241%       |
| 5         | 6.504       | 726           | 733         | 738          | rBV      | 3364653        | 5065556       | 75.09%          | 12.377%       |
| 6         | 6.887       | 792           | 798         | 803          | rVB      | 883539         | 1143175       | 16.95%          | 2.793%        |
| 7         | 7.445       | 886           | 893         | 898          | rBV      | 2423911        | 3519525       | 52.17%          | 8.600%        |
| 8         | 8.163       | 1009          | 1015        | 1022         | rBV      | 1104868        | 1493847       | 22.14%          | 3.650%        |
| 9         | 9.245       | 1191          | 1199        | 1204         | rBV      | 3921693        | 5807622       | 86.09%          | 14.190%       |
| 10        | 9.922       | 1308          | 1314        | 1319         | rBV      | 1246871        | 1619327       | 24.00%          | 3.957%        |
| 11        | 10.710      | 1442          | 1448        | 1468         | rBV      | 2744028        | 3863816       | 57.27%          | 9.441%        |
| 12        | 11.410      | 1562          | 1567        | 1574         | rBV      | 1240095        | 1557563       | 23.09%          | 3.806%        |
| 13        | 13.004      | 1831          | 1838        | 1843         | rBV      | 5007092        | 6746244       | 100.00%         | 16.484%       |
| 14        | 14.051      | 2011          | 2016        | 2031         | rVB      | 998820         | 1336379       | 19.81%          | 3.265%        |
| 15        | 15.533      | 2261          | 2268        | 2281         | rBV      | 936413         | 1501781       | 22.26%          | 3.669%        |
| 16        | 16.015      | 2345          | 2350        | 2363         | rVB      | 41444          | 74774         | 1.11%           | 0.183%        |
| 17        | 16.539      | 2433          | 2439        | 2449         | rVB      | 42194          | 88356         | 1.31%           | 0.216%        |
| 18        | 17.151      | 2536          | 2543        | 2546         | rBV      | 33332          | 77951         | 1.16%           | 0.190%        |
| 19        | 17.215      | 2547          | 2554        | 2577         | rVB2     | 93153          | 391494        | 5.80%           | 0.957%        |

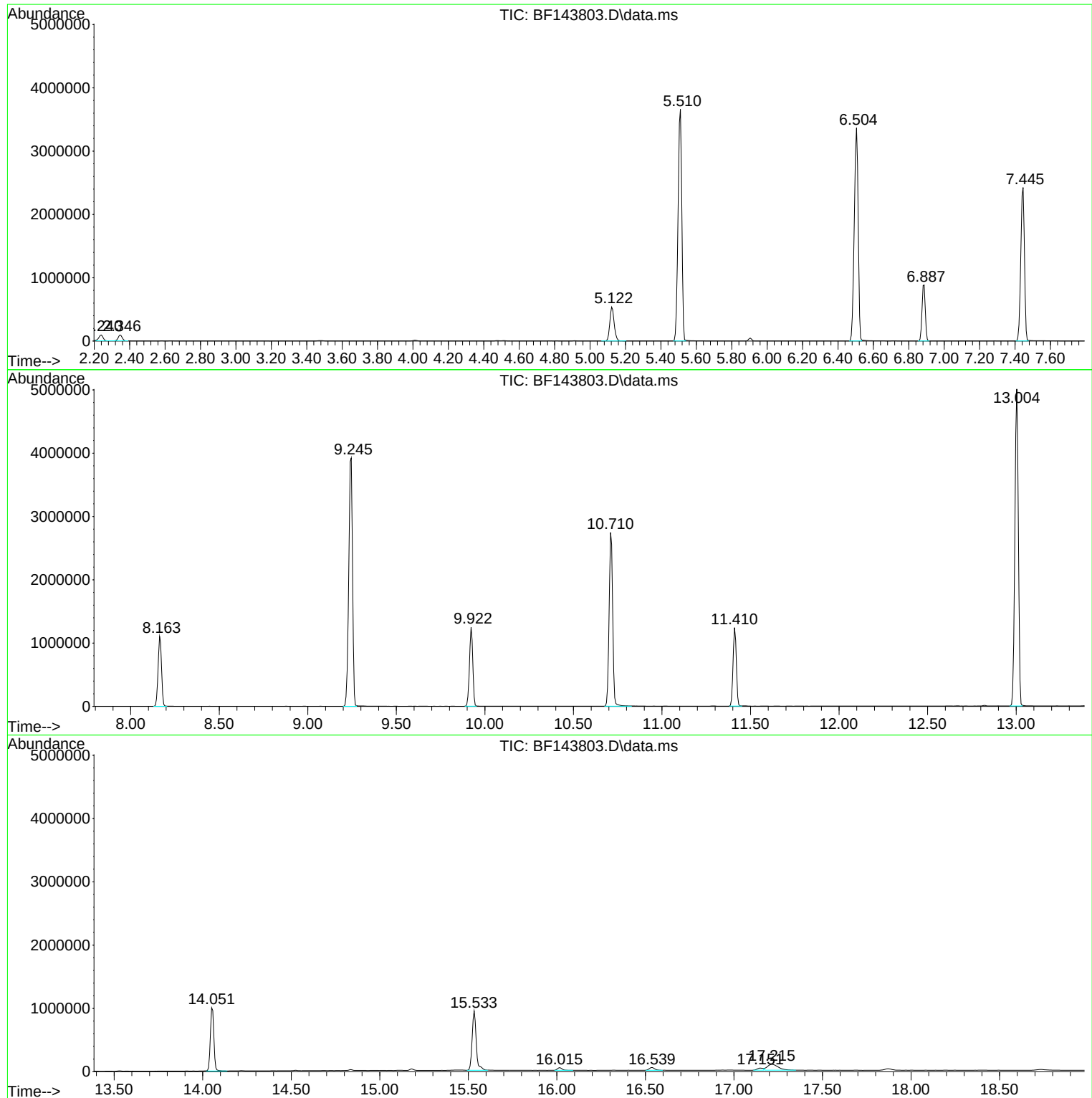
Sum of corrected areas: 40926198

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF092525\  
Data File : BF143803.D  
Acq On : 25 Sep 2025 13:46  
Operator : RC/JU  
Sample : PB169827BL  
Misc :  
ALS Vial : 3 Sample Multiplier: 2

Instrument :  
BNA\_F  
ClientSampleId :  
PB169827BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF092325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF092525\  
Data File : BF143803.D  
Acq On : 25 Sep 2025 13:46  
Operator : RC/JU  
Sample : PB169827BL  
Misc :  
ALS Vial : 3 Sample Multiplier: 2

Instrument :  
BNA\_F  
ClientSampleId :  
PB169827BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF092325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

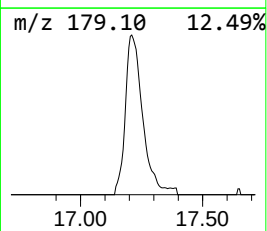
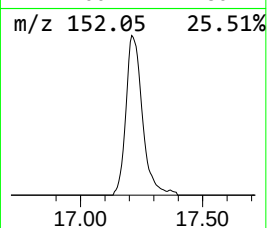
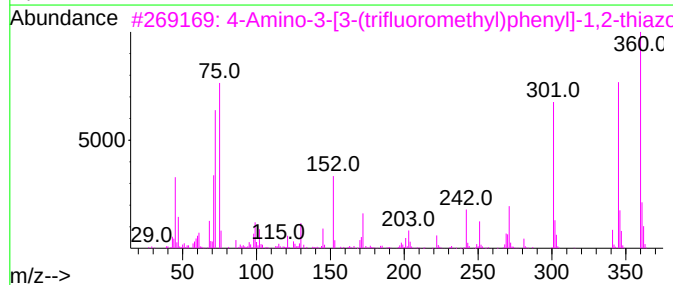
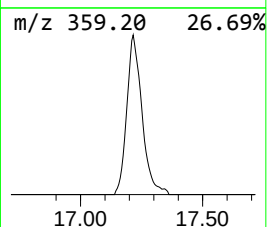
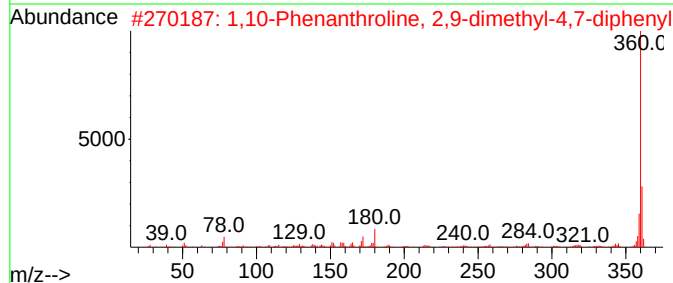
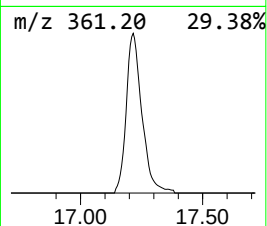
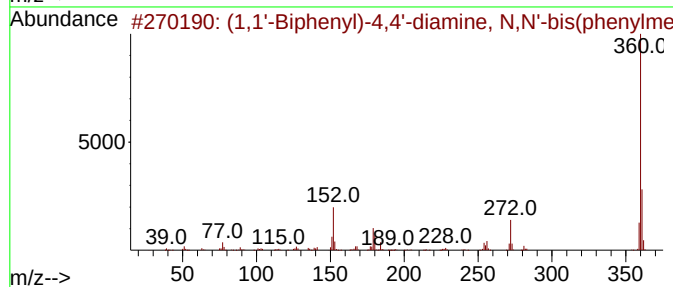
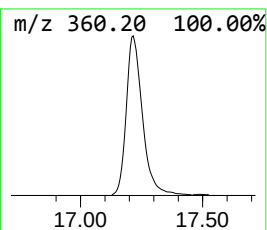
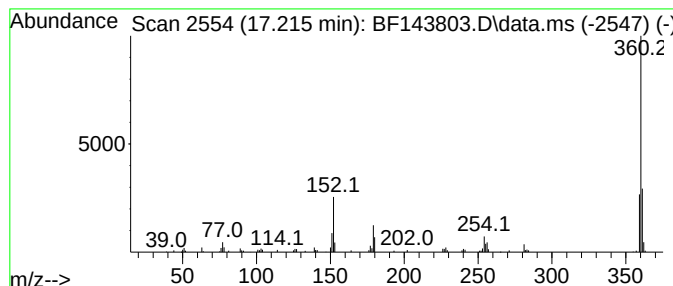
\*\*\*\*\*

Peak Number 4 (1,1'-Biphenyl)-4,4'-diamin... Concentration Rank 2

| R.T.   | EstConc  | Area   | Relative to ISTD | R.T.   |
|--------|----------|--------|------------------|--------|
| 17.215 | 10.43 ng | 391494 | Perylene-d12     | 15.533 |

| Hit# | of 5 | Tentative ID                        | MW  | MolForm         | CAS#         | Qual |
|------|------|-------------------------------------|-----|-----------------|--------------|------|
| 1    |      | (1,1'-Biphenyl)-4,4'-diamine, N,... | 360 | C26H20N2        | 006311-48-4  | 97   |
| 2    |      | 1,10-Phenanthroline, 2,9-dimethy... | 360 | C26H20N2        | 004733-39-5  | 58   |
| 3    |      | 4-Amino-3-[3-(trifluoromethyl)ph... | 360 | C14H15F3N2O2SSi | 1010500-98-0 | 53   |
| 4    |      | 1,3,2-Dioxaborolane, bis(spiro[4... | 360 | C20H13B06       | 1000150-23-7 | 53   |
| 5    |      | Pentacyclo[18.4.1.1(2,7).1(8,13)... | 360 | C28H24          | 101077-60-5  | 50   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF092525\  
Data File : BF143803.D  
Acq On : 25 Sep 2025 13:46  
Operator : RC/JU  
Sample : PB169827BL  
Misc :  
ALS Vial : 3 Sample Multiplier: 2

Instrument :  
BNA\_F  
ClientSampleId :  
PB169827BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF092325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

| TIC Top Hit name   | RT     | EstConc | Units | Response | --Internal Standard-- |        |         |      |
|--------------------|--------|---------|-------|----------|-----------------------|--------|---------|------|
|                    |        |         |       |          | #                     | RT     | Resp    | Conc |
| (1,1'-Biphenyl)... | 17.215 | 10.4    | ng    | 391494   | 6                     | 15.533 | 1501780 | 20.0 |

## Report of Analysis

|                    |                        |                 |                              |
|--------------------|------------------------|-----------------|------------------------------|
| Client:            | Weston Solutions, Inc. | Date Collected: |                              |
| Project:           | RFP 916                | Date Received:  |                              |
| Client Sample ID:  | PB169827BS             | SDG No.:        | Q3178                        |
| Lab Sample ID:     | PB169827BS             | Matrix:         | SOIL                         |
| Analytical Method: | 8270E                  | % Solid:        | 100                          |
| Sample Wt/Vol:     | 30.02      Units:    g | Final Vol:      | 1000                      uL |
| Soil Aliquot Vol:  | uL                     | Test:           | SVOC-TCL BNA -20             |
| Extraction Type :  | Decanted :      N      | Level :         | LOW                          |
| Injection Volume : | GPC Factor :    1.0    | GPC Cleanup :   | N                      PH :  |
| Prep Method :      | SW3541                 |                 |                              |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BF143804.D        | 1         | 09/25/25 09:25 | 09/25/25 14:16 | PB169827      |

| CAS Number     | Parameter                   | Conc. | Qualifier | MDL  | LOQ / CRQL | Units(Dry Weight) |
|----------------|-----------------------------|-------|-----------|------|------------|-------------------|
| <b>TARGETS</b> |                             |       |           |      |            |                   |
| 100-52-7       | Benzaldehyde                | 400   |           | 160  | 330        | ug/Kg             |
| 108-95-2       | Phenol                      | 1400  |           | 22.1 | 170        | ug/Kg             |
| 111-44-4       | bis(2-Chloroethyl)ether     | 1400  |           | 24.3 | 170        | ug/Kg             |
| 95-57-8        | 2-Chlorophenol              | 1400  |           | 24.4 | 170        | ug/Kg             |
| 95-48-7        | 2-Methylphenol              | 1500  |           | 29.9 | 170        | ug/Kg             |
| 108-60-1       | 2,2-oxybis(1-Chloropropane) | 1400  |           | 37.5 | 170        | ug/Kg             |
| 98-86-2        | Acetophenone                | 1400  |           | 29.5 | 170        | ug/Kg             |
| 65794-96-9     | 3+4-Methylphenols           | 1400  |           | 41.1 | 330        | ug/Kg             |
| 621-64-7       | n-Nitroso-di-n-propylamine  | 1500  |           | 47.4 | 79.9       | ug/Kg             |
| 67-72-1        | Hexachloroethane            | 1400  |           | 17.6 | 170        | ug/Kg             |
| 98-95-3        | Nitrobenzene                | 1400  |           | 18.3 | 170        | ug/Kg             |
| 78-59-1        | Isophorone                  | 1500  |           | 32.8 | 170        | ug/Kg             |
| 88-75-5        | 2-Nitrophenol               | 1500  |           | 58.2 | 170        | ug/Kg             |
| 105-67-9       | 2,4-Dimethylphenol          | 1600  |           | 64.8 | 170        | ug/Kg             |
| 111-91-1       | bis(2-Chloroethoxy)methane  | 1400  |           | 30.8 | 170        | ug/Kg             |
| 120-83-2       | 2,4-Dichlorophenol          | 1400  |           | 28.3 | 170        | ug/Kg             |
| 91-20-3        | Naphthalene                 | 1400  |           | 22.7 | 170        | ug/Kg             |
| 106-47-8       | 4-Chloroaniline             | 910   |           | 35.4 | 170        | ug/Kg             |
| 87-68-3        | Hexachlorobutadiene         | 1400  |           | 25.3 | 170        | ug/Kg             |
| 105-60-2       | Caprolactam                 | 1700  |           | 52.1 | 330        | ug/Kg             |
| 59-50-7        | 4-Chloro-3-methylphenol     | 1500  |           | 28.7 | 170        | ug/Kg             |
| 91-57-6        | 2-Methylnaphthalene         | 1300  |           | 25.6 | 170        | ug/Kg             |
| 77-47-4        | Hexachlorocyclopentadiene   | 3500  | E         | 120  | 330        | ug/Kg             |
| 88-06-2        | 2,4,6-Trichlorophenol       | 1500  |           | 19.8 | 170        | ug/Kg             |
| 95-95-4        | 2,4,5-Trichlorophenol       | 1500  |           | 29.1 | 170        | ug/Kg             |
| 92-52-4        | 1,1-Biphenyl                | 1400  |           | 21.8 | 170        | ug/Kg             |
| 91-58-7        | 2-Chloronaphthalene         | 1400  |           | 22.5 | 170        | ug/Kg             |
| 88-74-4        | 2-Nitroaniline              | 1700  |           | 48.1 | 170        | ug/Kg             |
| 131-11-3       | Dimethylphthalate           | 1500  |           | 27.1 | 170        | ug/Kg             |



## Report of Analysis

|                    |                        |                 |                              |
|--------------------|------------------------|-----------------|------------------------------|
| Client:            | Weston Solutions, Inc. | Date Collected: |                              |
| Project:           | RFP 916                | Date Received:  |                              |
| Client Sample ID:  | PB169827BS             | SDG No.:        | Q3178                        |
| Lab Sample ID:     | PB169827BS             | Matrix:         | SOIL                         |
| Analytical Method: | 8270E                  | % Solid:        | 100                          |
| Sample Wt/Vol:     | 30.02      Units:    g | Final Vol:      | 1000                      uL |
| Soil Aliquot Vol:  | uL                     | Test:           | SVOC-TCL BNA -20             |
| Extraction Type :  | Decanted :      N      | Level :         | LOW                          |
| Injection Volume : | GPC Factor :    1.0    | GPC Cleanup :   | N                      PH :  |
| Prep Method :      | SW3541                 |                 |                              |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BF143804.D        | 1         | 09/25/25 09:25 | 09/25/25 14:16 | PB169827      |

| CAS Number | Parameter                  | Conc. | Qualifier | MDL  | LOQ / CRQL | Units(Dry Weight) |
|------------|----------------------------|-------|-----------|------|------------|-------------------|
| 208-96-8   | Acenaphthylene             | 1600  |           | 28.9 | 170        | ug/Kg             |
| 606-20-2   | 2,6-Dinitrotoluene         | 1900  |           | 33.6 | 170        | ug/Kg             |
| 99-09-2    | 3-Nitroaniline             | 1200  |           | 46.0 | 170        | ug/Kg             |
| 83-32-9    | Acenaphthene               | 1500  |           | 21.3 | 170        | ug/Kg             |
| 51-28-5    | 2,4-Dinitrophenol          | 3000  | E         | 230  | 330        | ug/Kg             |
| 100-02-7   | 4-Nitrophenol              | 3100  | E         | 110  | 330        | ug/Kg             |
| 132-64-9   | Dibenzofuran               | 1400  |           | 22.7 | 170        | ug/Kg             |
| 121-14-2   | 2,4-Dinitrotoluene         | 1600  |           | 50.1 | 170        | ug/Kg             |
| 84-66-2    | Diethylphthalate           | 1500  |           | 28.3 | 170        | ug/Kg             |
| 7005-72-3  | 4-Chlorophenyl-phenylether | 1400  |           | 26.7 | 170        | ug/Kg             |
| 86-73-7    | Fluorene                   | 1400  |           | 25.3 | 170        | ug/Kg             |
| 100-01-6   | 4-Nitroaniline             | 1600  |           | 64.2 | 170        | ug/Kg             |
| 534-52-1   | 4,6-Dinitro-2-methylphenol | 1700  |           | 100  | 330        | ug/Kg             |
| 86-30-6    | n-Nitrosodiphenylamine     | 1500  |           | 32.9 | 170        | ug/Kg             |
| 101-55-3   | 4-Bromophenyl-phenylether  | 1600  |           | 27.8 | 170        | ug/Kg             |
| 118-74-1   | Hexachlorobenzene          | 1500  |           | 25.3 | 170        | ug/Kg             |
| 1912-24-9  | Atrazine                   | 1600  |           | 34.0 | 170        | ug/Kg             |
| 87-86-5    | Pentachlorophenol          | 3200  | E         | 51.3 | 330        | ug/Kg             |
| 85-01-8    | Phenanthrene               | 1400  |           | 20.9 | 170        | ug/Kg             |
| 120-12-7   | Anthracene                 | 1500  |           | 33.3 | 170        | ug/Kg             |
| 86-74-8    | Carbazole                  | 1500  |           | 31.2 | 170        | ug/Kg             |
| 84-74-2    | Di-n-butylphthalate        | 1600  |           | 47.9 | 170        | ug/Kg             |
| 206-44-0   | Fluoranthene               | 1400  |           | 30.0 | 170        | ug/Kg             |
| 129-00-0   | Pyrene                     | 1600  |           | 36.0 | 170        | ug/Kg             |
| 85-68-7    | Butylbenzylphthalate       | 1800  |           | 71.4 | 170        | ug/Kg             |
| 91-94-1    | 3,3-Dichlorobenzidine      | 1200  |           | 36.7 | 330        | ug/Kg             |
| 56-55-3    | Benzo(a)anthracene         | 1400  |           | 23.0 | 170        | ug/Kg             |
| 218-01-9   | Chrysene                   | 1500  |           | 19.9 | 170        | ug/Kg             |
| 117-81-7   | Bis(2-ethylhexyl)phthalate | 1600  |           | 59.2 | 170        | ug/Kg             |
| 117-84-0   | Di-n-octyl phthalate       | 1600  |           | 86.7 | 330        | ug/Kg             |
| 205-99-2   | Benzo(b)fluoranthene       | 1700  |           | 19.0 | 170        | ug/Kg             |

## Report of Analysis

|                    |                        |                 |                              |
|--------------------|------------------------|-----------------|------------------------------|
| Client:            | Weston Solutions, Inc. | Date Collected: |                              |
| Project:           | RFP 916                | Date Received:  |                              |
| Client Sample ID:  | PB169827BS             | SDG No.:        | Q3178                        |
| Lab Sample ID:     | PB169827BS             | Matrix:         | SOIL                         |
| Analytical Method: | 8270E                  | % Solid:        | 100                          |
| Sample Wt/Vol:     | 30.02      Units:    g | Final Vol:      | 1000                      uL |
| Soil Aliquot Vol:  | uL                     | Test:           | SVOC-TCL BNA -20             |
| Extraction Type :  | Decanted :      N      | Level :         | LOW                          |
| Injection Volume : | GPC Factor :    1.0    | GPC Cleanup :   | N                      PH :  |
| Prep Method :      | SW3541                 |                 |                              |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BF143804.D        | 1         | 09/25/25 09:25 | 09/25/25 14:16 | PB169827      |

| CAS Number                | Parameter                  | Conc.  | Qualifier | MDL      | LOQ / CRQL | Units(Dry Weight) |
|---------------------------|----------------------------|--------|-----------|----------|------------|-------------------|
| 207-08-9                  | Benzo(k)fluoranthene       | 1600   |           | 22.4     | 170        | ug/Kg             |
| 50-32-8                   | Benzo(a)pyrene             | 1700   |           | 29.5     | 170        | ug/Kg             |
| 193-39-5                  | Indeno(1,2,3-cd)pyrene     | 1600   |           | 29.1     | 170        | ug/Kg             |
| 53-70-3                   | Dibenzo(a,h)anthracene     | 1600   |           | 27.4     | 170        | ug/Kg             |
| 191-24-2                  | Benzo(g,h,i)perylene       | 1700   |           | 25.7     | 170        | ug/Kg             |
| 95-94-3                   | 1,2,4,5-Tetrachlorobenzene | 1400   |           | 25.6     | 170        | ug/Kg             |
| 123-91-1                  | 1,4-Dioxane                | 1200   |           | 45.2     | 170        | ug/Kg             |
| 58-90-2                   | 2,3,4,6-Tetrachlorophenol  | 1800   |           | 27.4     | 170        | ug/Kg             |
| <b>SURROGATES</b>         |                            |        |           |          |            |                   |
| 367-12-4                  | 2-Fluorophenol             | 111    |           | 18 - 112 | 74%        | SPK: 150          |
| 13127-88-3                | Phenol-d6                  | 113    |           | 15 - 107 | 76%        | SPK: 150          |
| 4165-60-0                 | Nitrobenzene-d5            | 84.3   |           | 18 - 107 | 84%        | SPK: 100          |
| 321-60-8                  | 2-Fluorobiphenyl           | 80.8   |           | 20 - 109 | 81%        | SPK: 100          |
| 118-79-6                  | 2,4,6-Tribromophenol       | 110    |           | 10 - 116 | 73%        | SPK: 150          |
| 1718-51-0                 | Terphenyl-d14              | 92.4   |           | 10 - 105 | 92%        | SPK: 100          |
| <b>INTERNAL STANDARDS</b> |                            |        |           |          |            |                   |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4     | 155000 | 6.886     |          |            |                   |
| 1146-65-2                 | Naphthalene-d8             | 586000 | 8.169     |          |            |                   |
| 15067-26-2                | Acenaphthene-d10           | 295000 | 9.927     |          |            |                   |
| 1517-22-2                 | Phenanthrene-d10           | 455000 | 11.416    |          |            |                   |
| 1719-03-5                 | Chrysene-d12               | 452000 | 14.057    |          |            |                   |
| 1520-96-3                 | Perylene-d12               | 566000 | 15.533    |          |            |                   |

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\_F\Data\BF092525\  
 Data File : BF143804.D  
 Acq On : 25 Sep 2025 14:16  
 Operator : RC/JU  
 Sample : PB169827BS  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB169827BS

Manual Integrations  
 APPROVED

Reviewed By :Rahul Chavli 09/26/2025  
 Supervised By :Jagrut Upadhyay 09/26/2025

Quant Time: Sep 25 14:57:54 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF092325.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Sep 24 05:00:00 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| -----                         |        |      |          |         |       |          |
| Internal Standards            |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.886  | 152  | 154944   | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8            | 8.169  | 136  | 586166   | 20.000  | ng    | 0.00     |
| 39) Acenaphthene-d10          | 9.927  | 164  | 295245   | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10          | 11.416 | 188  | 455131   | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12              | 14.057 | 240  | 452412   | 20.000  | ng    | 0.00     |
| 86) Perylene-d12              | 15.533 | 264  | 566269   | 20.000  | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |         |       |          |
| 5) 2-Fluorophenol             | 5.510  | 112  | 1062005  | 111.359 | ng    | 0.01     |
| 7) Phenol-d6                  | 6.510  | 99   | 1250023  | 113.441 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 7.445  | 82   | 806781   | 84.250  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 10.716 | 330  | 479746   | 109.742 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 9.245  | 172  | 1528950  | 80.812  | ng    | 0.00     |
| 79) Terphenyl-d14             | 12.998 | 244  | 2056205  | 92.433  | ng    | 0.00     |
| Target Compounds              |        |      |          |         |       |          |
|                               |        |      |          |         |       | Qvalue   |
| 2) 1,4-Dioxane                | 2.740  | 88   | 165532   | 36.264  | ng    | 100      |
| 3) Pyridine                   | 3.493  | 79   | 455308   | 36.952  | ng    | 99       |
| 4) n-Nitrosodimethylamine     | 3.446  | 42   | 277819   | 44.967  | ng    | 95       |
| 6) Aniline                    | 6.545  | 93   | 516079   | 32.269  | ng    | 99       |
| 8) 2-Chlorophenol             | 6.669  | 128  | 417322   | 42.745  | ng    | 99       |
| 9) Benzaldehyde               | 6.434  | 77   | 115635   | 11.983  | ng    | 98       |
| 10) Phenol                    | 6.522  | 94   | 532940m  | 41.610  | ng    |          |
| 11) bis(2-Chloroethyl)ether   | 6.622  | 93   | 435170   | 43.344  | ng    | 99       |
| 12) 1,3-Dichlorobenzene       | 6.828  | 146  | 479427   | 42.294  | ng    | 100      |
| 13) 1,4-Dichlorobenzene       | 6.904  | 146  | 482234   | 42.628  | ng    | 99       |
| 14) 1,2-Dichlorobenzene       | 7.057  | 146  | 466826   | 43.571  | ng    | 100      |
| 15) Benzyl Alcohol            | 7.022  | 79   | 370645   | 46.552  | ng    | 99       |
| 16) 2,2'-oxybis(1-Chloropr... | 7.157  | 45   | 1020007  | 42.844  | ng    | 99       |
| 17) 2-Methylphenol            | 7.134  | 107  | 333152   | 44.076  | ng    | 99       |
| 18) Hexachloroethane          | 7.398  | 117  | 169392   | 42.578  | ng    | 98       |
| 19) n-Nitroso-di-n-propyla... | 7.298  | 70   | 314780   | 44.424  | ng    | 98       |
| 20) 3+4-Methylphenols         | 7.281  | 107  | 390864   | 42.463  | ng    | 96       |
| 22) Acetophenone              | 7.292  | 105  | 555882   | 43.177  | ng    | 98       |
| 24) Nitrobenzene              | 7.469  | 77   | 455128   | 42.879  | ng    | 97       |
| 25) Isophorone                | 7.704  | 82   | 851108   | 45.610  | ng    | 100      |
| 26) 2-Nitrophenol             | 7.781  | 139  | 194232   | 44.766  | ng    | 98       |
| 27) 2,4-Dimethylphenol        | 7.816  | 122  | 389964   | 46.755  | ng    | 100      |
| 28) bis(2-Chloroethoxy)met... | 7.916  | 93   | 520514   | 42.933  | ng    | 99       |
| 29) 2,4-Dichlorophenol        | 8.022  | 162  | 350565   | 42.716  | ng    | 99       |
| 30) 1,2,4-Trichlorobenzene    | 8.110  | 180  | 383033   | 44.973  | ng    | 100      |
| 31) Naphthalene               | 8.192  | 128  | 1162906  | 41.443  | ng    | 100      |
| 32) Benzoic acid              | 7.916  | 122  | 210549m  | 52.321  | ng    |          |
| 33) 4-Chloroaniline           | 8.233  | 127  | 270444   | 27.426  | ng    | 99       |
| 34) Hexachlorobutadiene       | 8.310  | 225  | 275769   | 43.434  | ng    | 99       |
| 35) Caprolactam               | 8.592  | 113  | 104193m  | 49.671  | ng    |          |
| 36) 4-Chloro-3-methylphenol   | 8.710  | 107  | 339654   | 44.128  | ng    | 99       |
| 37) 2-Methylnaphthalene       | 8.880  | 142  | 694046   | 38.789  | ng    | 100      |
| 38) 1-Methylnaphthalene       | 8.980  | 142  | 715322   | 41.768  | ng    | 99       |
| 40) 1,2,4,5-Tetrachloroben... | 9.045  | 216  | 368894   | 41.402  | ng    | 99       |
| 41) Hexachlorocyclopentadiene | 9.033  | 237  | 593049   | 105.022 | ng    | 99       |
| 43) 2,4,6-Trichlorophenol     | 9.157  | 196  | 254202   | 45.563  | ng    | 99       |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF092525\  
 Data File : BF143804.D  
 Acq On : 25 Sep 2025 14:16  
 Operator : RC/JU  
 Sample : PB169827BS  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB169827BS

Manual Integrations  
 APPROVED

Reviewed By :Rahul Chavli 09/26/2025  
 Supervised By :Jagrut Upadhyay 09/26/2025

Quant Time: Sep 25 14:57:54 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF092325.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Sep 24 05:00:00 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 44) 2,4,5-Trichlorophenol     | 9.198  | 196  | 259825   | 44.524 | ng    | 99       |
| 46) 1,1'-Biphenyl             | 9.345  | 154  | 913939   | 42.764 | ng    | 99       |
| 47) 2-Chloronaphthalene       | 9.369  | 162  | 720777   | 41.897 | ng    | 99       |
| 48) 2-Nitroaniline            | 9.463  | 65   | 258937   | 49.800 | ng    | 99       |
| 49) Acenaphthylene            | 9.786  | 152  | 1127108  | 47.592 | ng    | 100      |
| 50) Dimethylphthalate         | 9.645  | 163  | 813768   | 45.221 | ng    | 100      |
| 51) 2,6-Dinitrotoluene        | 9.704  | 165  | 167208   | 56.554 | ng    | 98       |
| 52) Acenaphthene              | 9.963  | 154  | 698991   | 44.850 | ng    | 98       |
| 53) 3-Nitroaniline            | 9.875  | 138  | 128649   | 35.898 | ng    | 100      |
| 54) 2,4-Dinitrophenol         | 9.980  | 184  | 123010   | 90.006 | ng    | # 24     |
| 55) Dibenzofuran              | 10.133 | 168  | 947951   | 43.014 | ng    | 100      |
| 56) 4-Nitrophenol             | 10.027 | 139  | 269066   | 93.169 | ng    | 93       |
| 57) 2,4-Dinitrotoluene        | 10.110 | 165  | 214946   | 48.920 | ng    | 99       |
| 58) Fluorene                  | 10.475 | 166  | 699412   | 42.689 | ng    | 100      |
| 59) 2,3,4,6-Tetrachlorophenol | 10.245 | 232  | 262852   | 52.578 | ng    | 97       |
| 60) Diethylphthalate          | 10.345 | 149  | 767269   | 45.548 | ng    | 99       |
| 61) 4-Chlorophenyl-phenyle... | 10.469 | 204  | 360668   | 43.204 | ng    | 97       |
| 62) 4-Nitroaniline            | 10.486 | 138  | 164334   | 48.768 | ng    | 100      |
| 63) Azobenzene                | 10.627 | 77   | 797009   | 44.894 | ng    | 100      |
| 65) 4,6-Dinitro-2-methylph... | 10.516 | 198  | 87321    | 51.358 | ng    | 92       |
| 66) n-Nitrosodiphenylamine    | 10.586 | 169  | 671478   | 44.861 | ng    | 100      |
| 67) 4-Bromophenyl-phenylether | 10.957 | 248  | 364447   | 46.988 | ng    | 99       |
| 68) Hexachlorobenzene         | 11.022 | 284  | 491991   | 46.029 | ng    | 99       |
| 69) Atrazine                  | 11.110 | 200  | 203198   | 46.880 | ng    | 98       |
| 70) Pentachlorophenol         | 11.216 | 266  | 517265   | 97.219 | ng    | 99       |
| 71) Phenanthrene              | 11.439 | 178  | 1015112  | 43.443 | ng    | 99       |
| 72) Anthracene                | 11.492 | 178  | 1029676  | 43.931 | ng    | 99       |
| 73) Carbazole                 | 11.645 | 167  | 894842   | 43.666 | ng    | 99       |
| 74) Di-n-butylphthalate       | 11.974 | 149  | 1105559  | 46.909 | ng    | 100      |
| 75) Fluoranthene              | 12.627 | 202  | 1022236  | 43.497 | ng    | 99       |
| 77) Benzidine                 | 12.751 | 184  | 299235   | 27.143 | ng    | 99       |
| 78) Pyrene                    | 12.857 | 202  | 1049427  | 47.181 | ng    | 100      |
| 80) Butylbenzylphthalate      | 13.474 | 149  | 407004   | 52.890 | ng    | 98       |
| 81) Benzo(a)anthracene        | 14.045 | 228  | 1048353  | 43.134 | ng    | 100      |
| 82) 3,3'-Dichlorobenzidine    | 14.010 | 252  | 372315   | 35.360 | ng    | 100      |
| 83) Chrysene                  | 14.086 | 228  | 1015236  | 46.164 | ng    | 99       |
| 84) Bis(2-ethylhexyl)phtha... | 14.033 | 149  | 543078   | 48.147 | ng    | 99       |
| 85) Di-n-octyl phthalate      | 14.651 | 149  | 957348   | 46.790 | ng    | 98       |
| 87) Indeno(1,2,3-cd)pyrene    | 17.033 | 276  | 2058670  | 47.915 | ng    | 100      |
| 88) Benzo(b)fluoranthene      | 15.104 | 252  | 1487418  | 51.580 | ng    | 100      |
| 89) Benzo(k)fluoranthene      | 15.133 | 252  | 1396964  | 48.218 | ng    | 100      |
| 90) Benzo(a)pyrene            | 15.474 | 252  | 1396443  | 51.517 | ng    | 100      |
| 91) Dibenzo(a,h)anthracene    | 17.051 | 278  | 1728792  | 49.195 | ng    | 99       |
| 92) Benzo(g,h,i)perylene      | 17.486 | 276  | 1694904  | 50.033 | ng    | 100      |

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

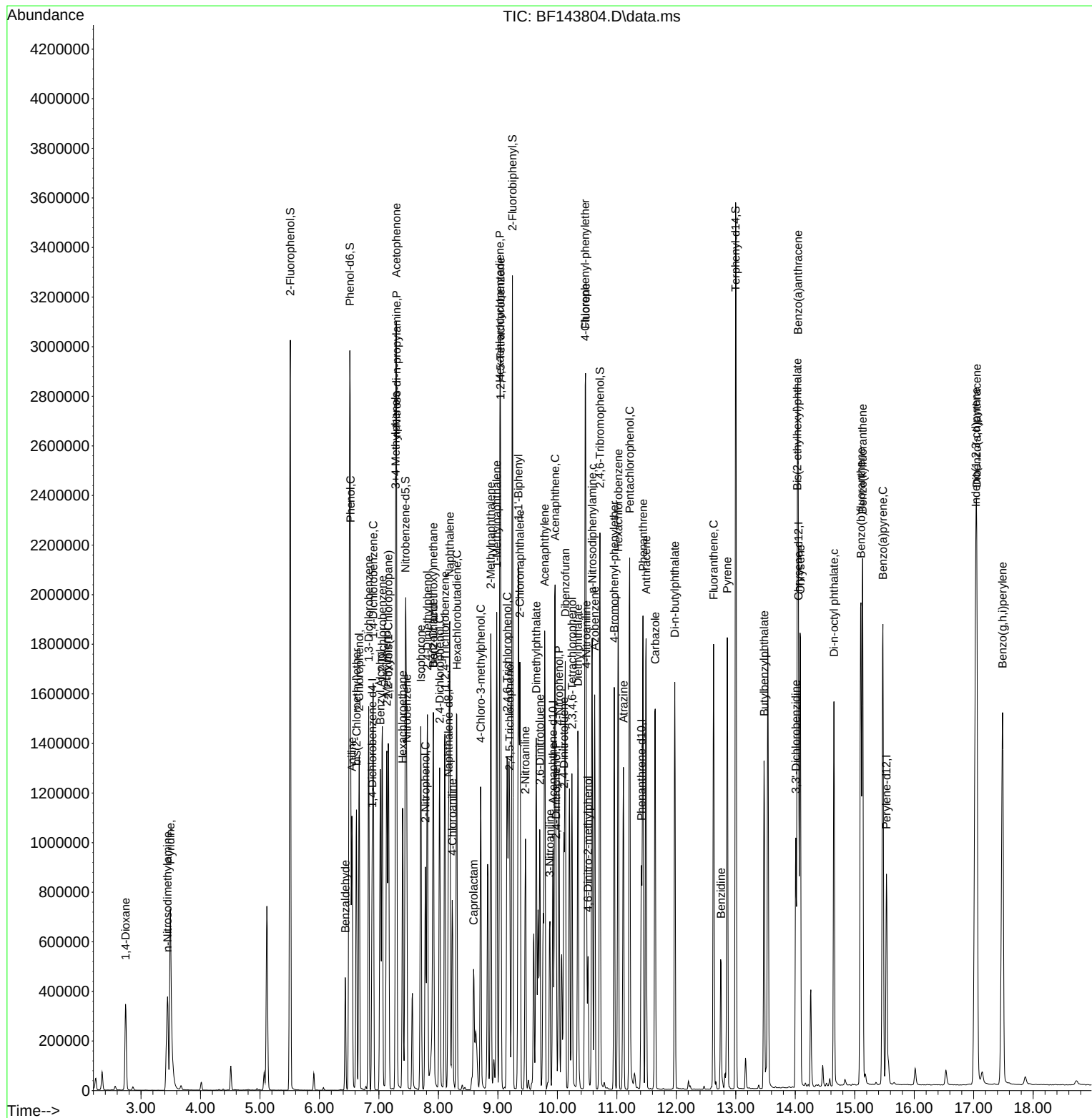
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Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF092525\  
Data File : BF143804.D  
Acq On    : 25 Sep 2025  14:16  
Operator  : RC/JU  
Sample    : PB169827BS  
Misc      :  
ALS Vial  : 4    Sample Multiplier: 1
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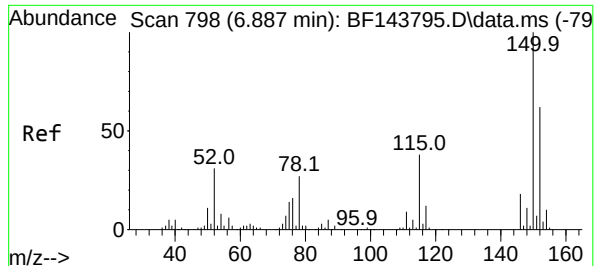
**Instrument :**  
BNA\_F  
**ClientSampleId :**  
PB169827BS

## Manual Integrations

Reviewed By :Rahul Chavli 09/26/2025  
Supervised By :Jagrut Upadhyay 09/26/2025

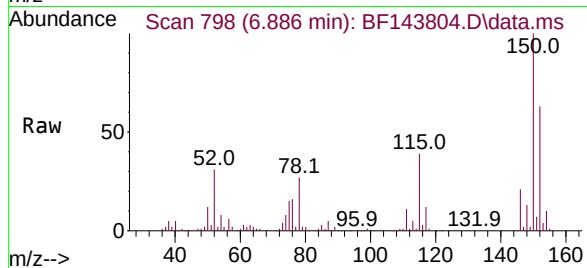
Quant Time: Sep 25 14:57:54 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF092325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Sep 24 05:00:00 2025  
Response via : Initial Calibration





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.886 min Scan# 79  
Delta R.T. -0.000 min  
Lab File: BF143804.D  
Acq: 25 Sep 2025 14:16

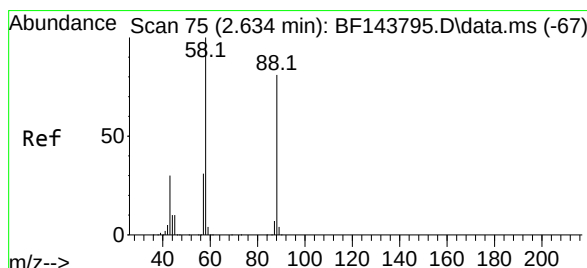
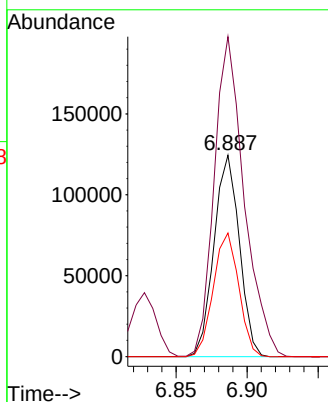
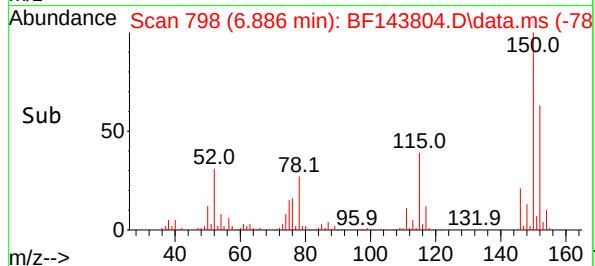
Instrument :  
BNA\_F  
ClientSampleId :  
PB169827BS



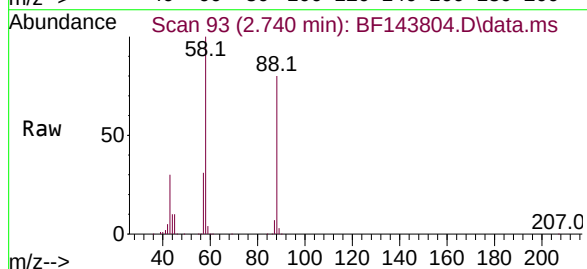
Tgt Ion: 152 Resp: 154944  
Ion Ratio Lower Upper  
152 100  
150 158.9 129.6 194.4  
115 61.4 49.0 73.4

Manual Integrations  
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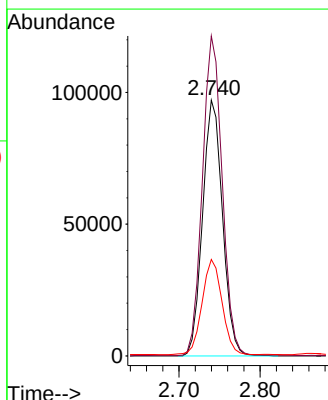
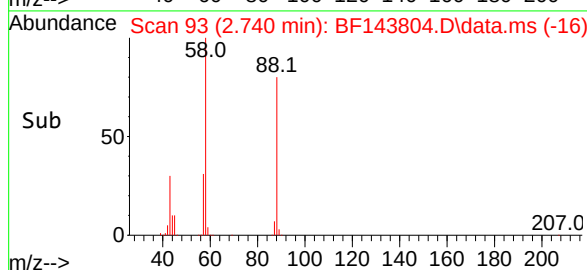
Reviewed By :Rahul Chavli 09/26/2025  
Supervised By :Jagrut Upadhyay 09/26/2025

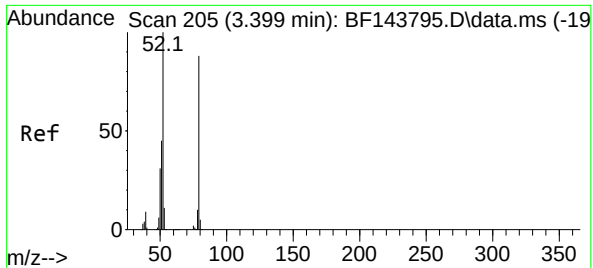


#2  
1,4-Dioxane  
Concen: 36.264 ng  
RT: 2.740 min Scan# 93  
Delta R.T. 0.106 min  
Lab File: BF143804.D  
Acq: 25 Sep 2025 14:16



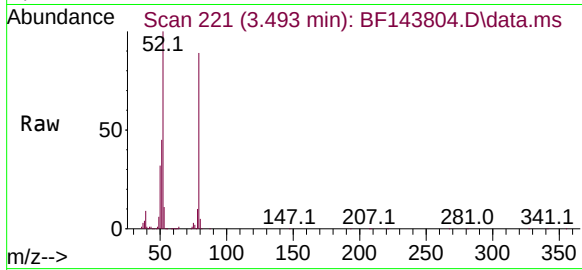
Tgt Ion: 88 Resp: 165532  
Ion Ratio Lower Upper  
88 100  
58 124.1 99.4 149.2  
43 37.3 30.6 45.8





#3  
Pyridine  
Concen: 36.952 ng  
RT: 3.493 min Scan# 211  
Delta R.T. 0.094 min  
Lab File: BF143804.D  
Acq: 25 Sep 2025 14:16

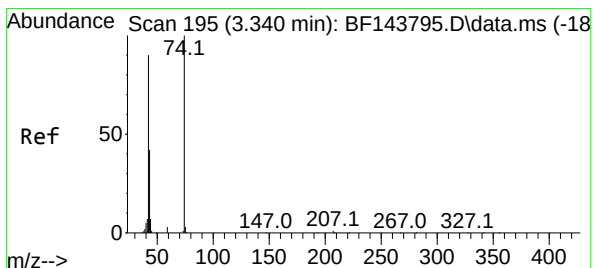
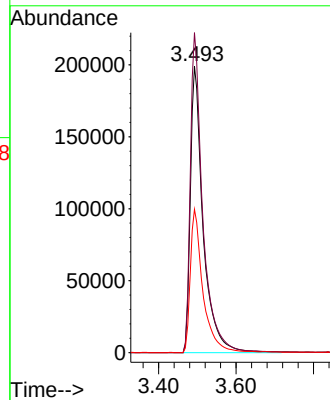
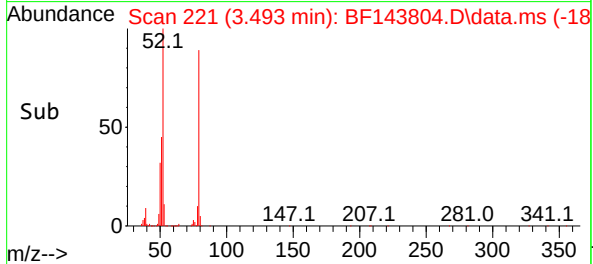
Instrument :  
BNA\_F  
ClientSampleId :  
PB169827BS



Tgt Ion: 79 Resp: 455308  
Ion Ratio Lower Upper  
79 100  
52 111.7 90.5 135.7  
51 50.0 40.6 61.0

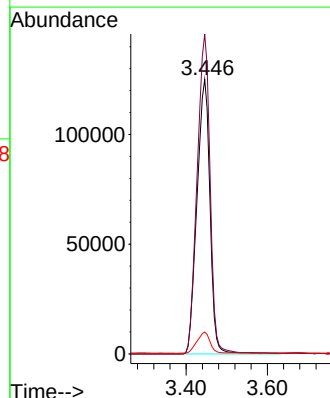
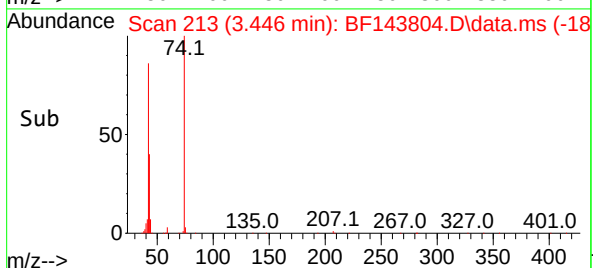
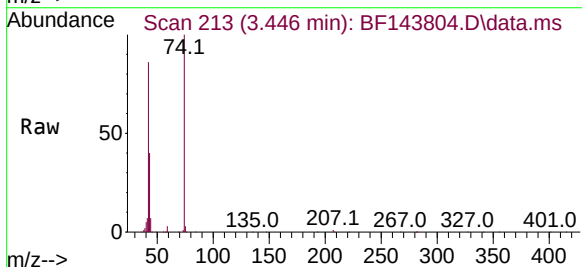
Manual Integrations  
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Reviewed By :Rahul Chavli 09/26/2025  
Supervised By :Jagrut Upadhyay 09/26/2025

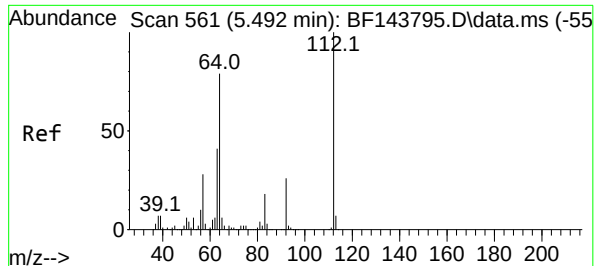


#4  
n-Nitrosodimethylamine  
Concen: 44.967 ng  
RT: 3.446 min Scan# 213  
Delta R.T. 0.088 min  
Lab File: BF143804.D  
Acq: 25 Sep 2025 14:16

Tgt Ion: 42 Resp: 277819  
Ion Ratio Lower Upper  
42 100  
74 116.6 89.1 133.7  
44 8.0 6.4 9.6

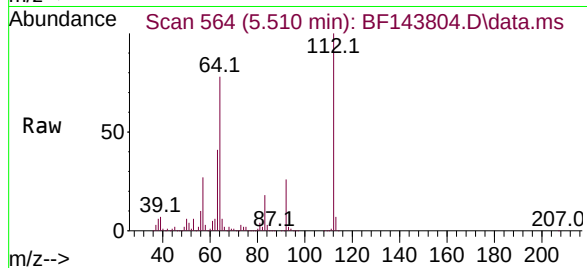






#5  
2-Fluorophenol  
Concen: 111.359 ng  
RT: 5.510 min Scan# 561  
Delta R.T. 0.012 min  
Lab File: BF143804.D  
Acq: 25 Sep 2025 14:16

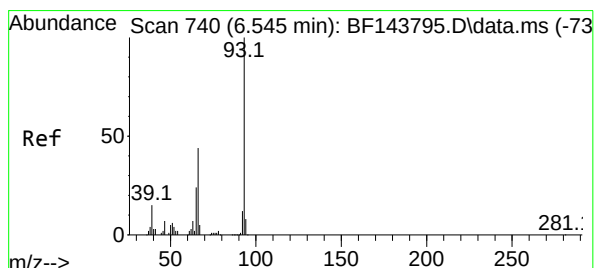
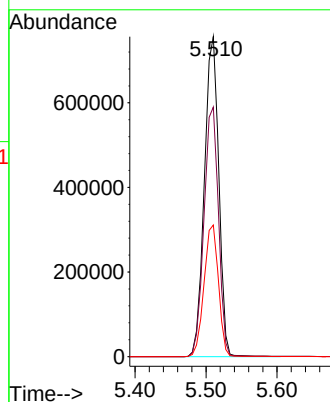
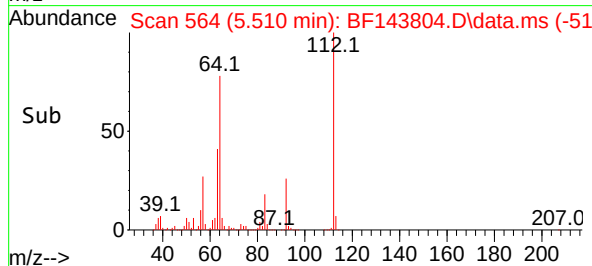
Instrument :  
BNA\_F  
ClientSampleId :  
PB169827BS



Tgt Ion: 112 Resp: 1062005  
Ion Ratio Lower Upper  
112 100  
64 78.0 63.0 94.4  
63 41.1 32.6 49.0

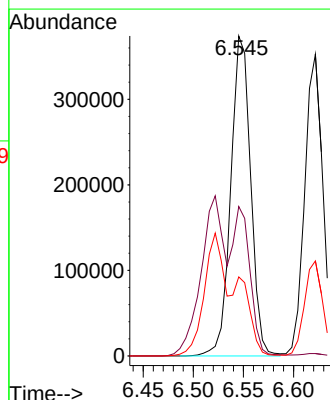
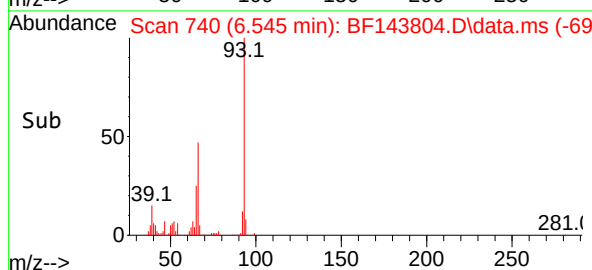
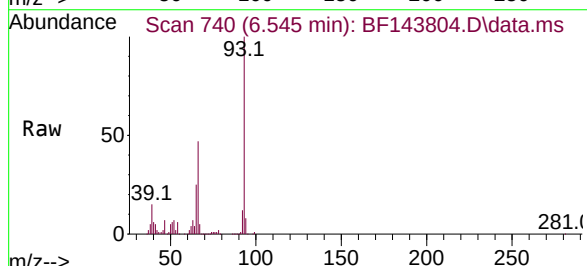
Manual Integrations  
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Reviewed By :Rahul Chavli 09/26/2025  
Supervised By :Jagrut Upadhyay 09/26/2025

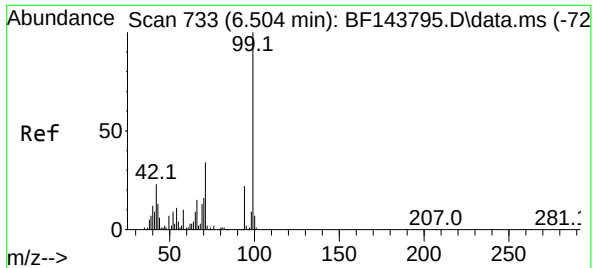


#6  
Aniline  
Concen: 32.269 ng  
RT: 6.545 min Scan# 740  
Delta R.T. -0.006 min  
Lab File: BF143804.D  
Acq: 25 Sep 2025 14:16

Tgt Ion: 93 Resp: 516079  
Ion Ratio Lower Upper  
93 100  
66 46.7 37.1 55.7  
65 24.7 19.4 29.0

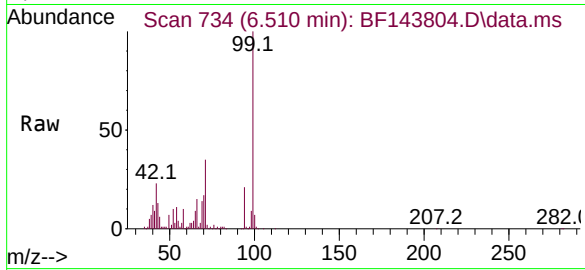






#7  
Phenol-d6  
Concen: 113.441 ng  
RT: 6.510 min Scan# 734  
Delta R.T. 0.000 min  
Lab File: BF143804.D  
Acq: 25 Sep 2025 14:16

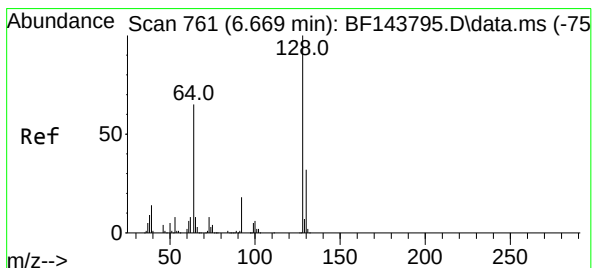
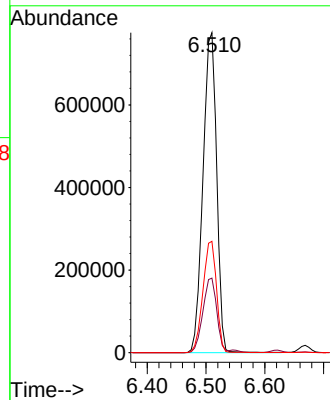
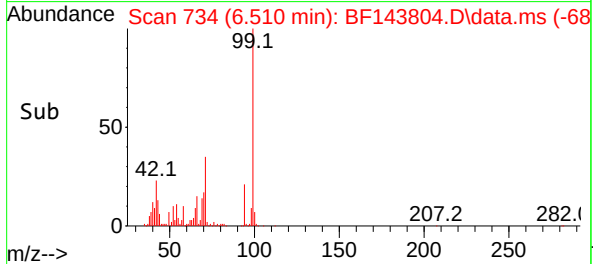
Instrument :  
BNA\_F  
ClientSampleId :  
PB169827BS



Tgt Ion: 99 Resp: 1250023  
Ion Ratio Lower Upper  
99 100  
42 23.3 18.6 28.0  
71 34.8 27.0 40.4

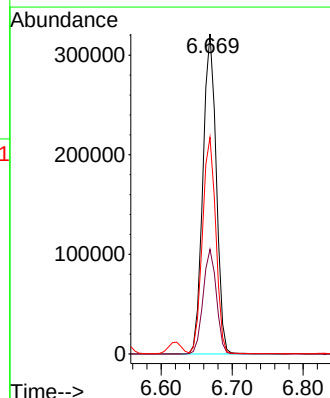
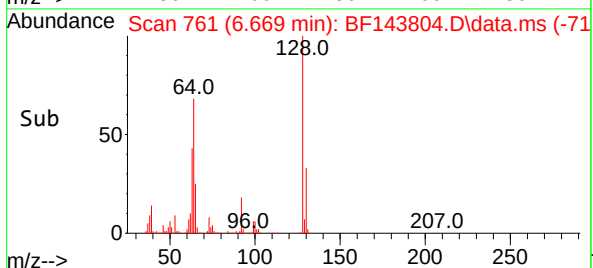
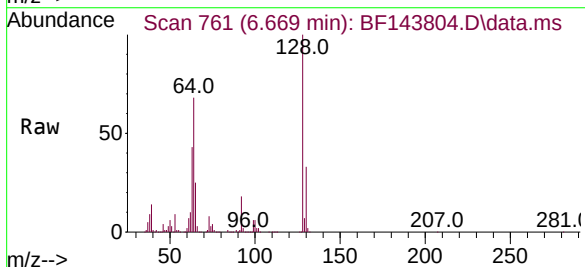
Manual Integrations  
APPROVED

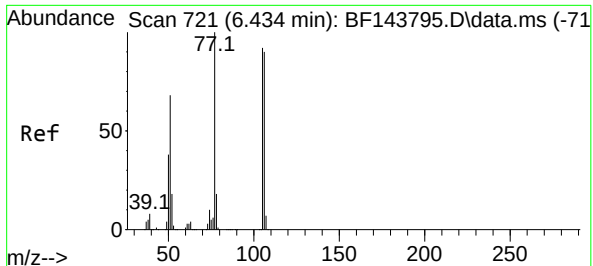
Reviewed By :Rahul Chavli 09/26/2025  
Supervised By :Jagrut Upadhyay 09/26/2025



#8  
2-Chlorophenol  
Concen: 42.745 ng  
RT: 6.669 min Scan# 761  
Delta R.T. -0.000 min  
Lab File: BF143804.D  
Acq: 25 Sep 2025 14:16

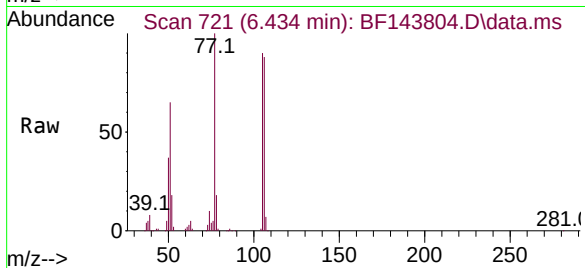
Tgt Ion:128 Resp: 417322  
Ion Ratio Lower Upper  
128 100  
130 32.7 12.2 52.2  
64 67.7 46.5 86.5





#9  
Benzaldehyde  
Concen: 11.983 ng  
RT: 6.434 min Scan# 71  
Delta R.T. -0.006 min  
Lab File: BF143804.D  
Acq: 25 Sep 2025 14:16

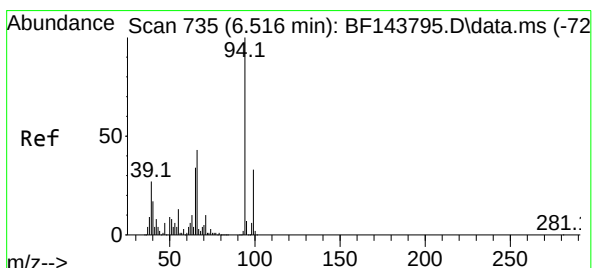
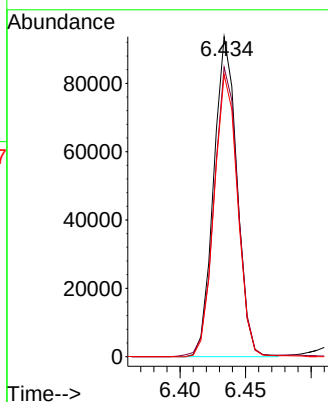
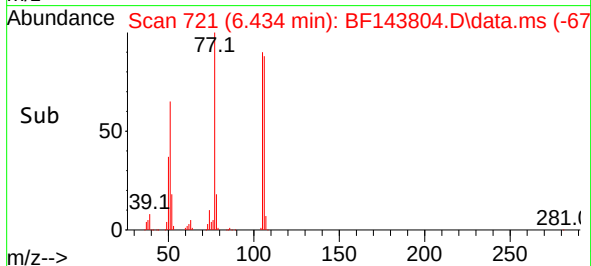
Instrument :  
BNA\_F  
ClientSampleId :  
PB169827BS



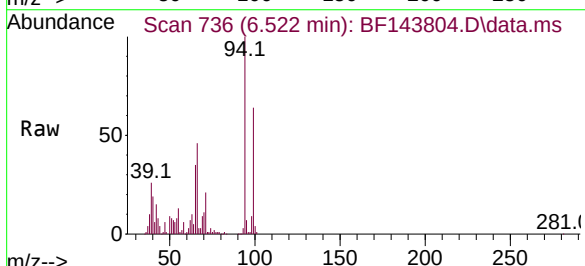
Tgt Ion: 77 Resp: 115635  
Ion Ratio Lower Upper  
77 100  
105 90.4 71.8 111.8  
106 88.1 69.8 109.8

Manual Integrations  
APPROVED

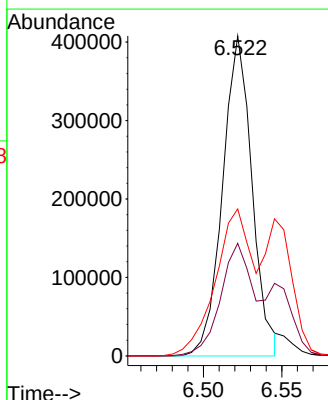
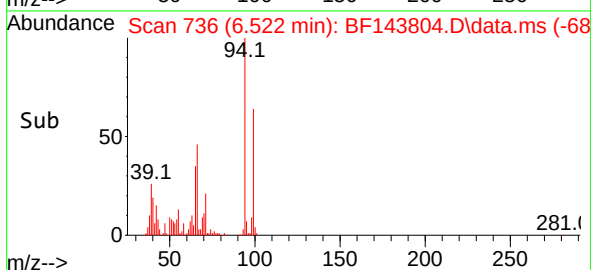
Reviewed By :Rahul Chavli 09/26/2025  
Supervised By :Jagrut Upadhyay 09/26/2025

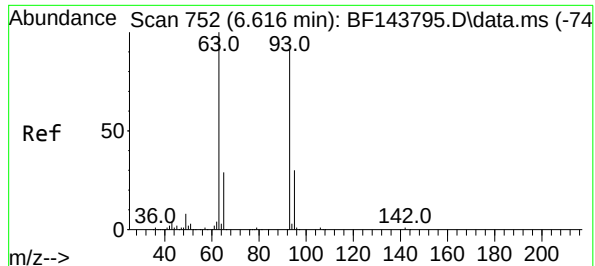


#10  
Phenol  
Concen: 41.610 ng m  
RT: 6.522 min Scan# 736  
Delta R.T. -0.006 min  
Lab File: BF143804.D  
Acq: 25 Sep 2025 14:16



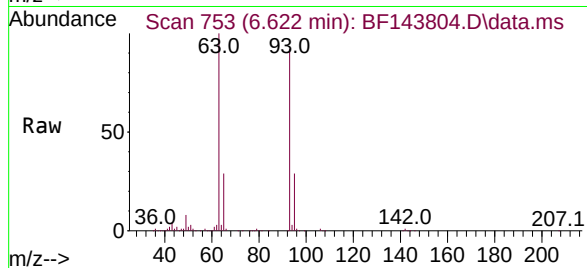
Tgt Ion: 94 Resp: 532940  
Ion Ratio Lower Upper  
94 100  
65 35.2 14.2 54.2  
66 45.9 24.1 64.1





#11  
bis(2-Chloroethyl)ether  
Concen: 43.344 ng  
RT: 6.622 min Scan# 752  
Delta R.T. -0.000 min  
Lab File: BF143804.D  
Acq: 25 Sep 2025 14:16

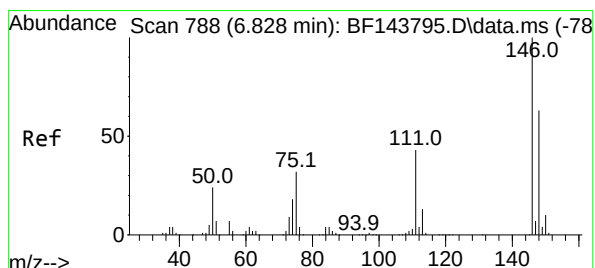
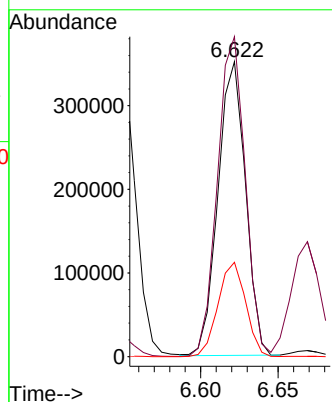
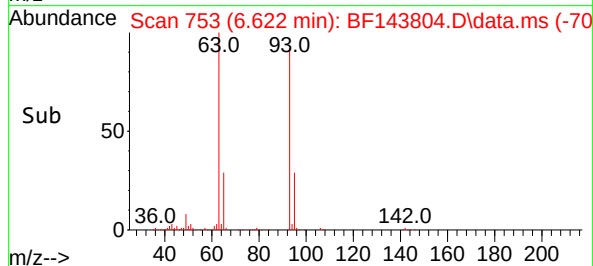
Instrument :  
BNA\_F  
ClientSampleId :  
PB169827BS



Tgt Ion: 93 Resp: 435176  
Ion Ratio Lower Upper  
93 100  
63 108.5 89.2 129.2  
95 32.0 12.9 52.9

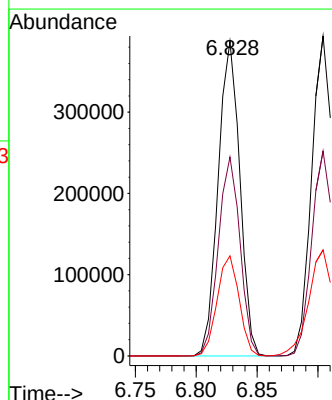
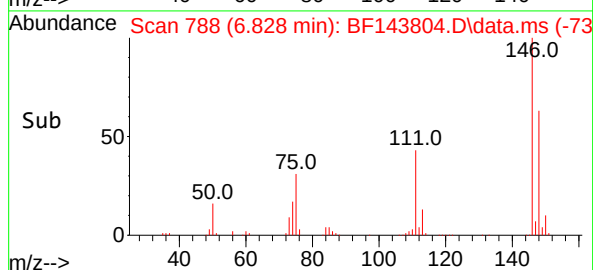
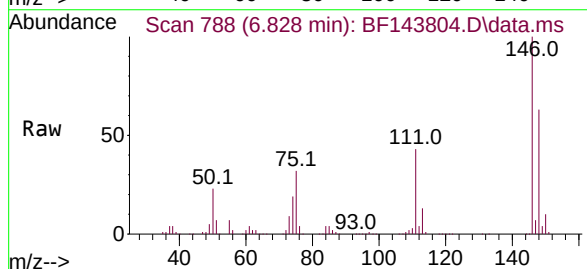
Manual Integrations  
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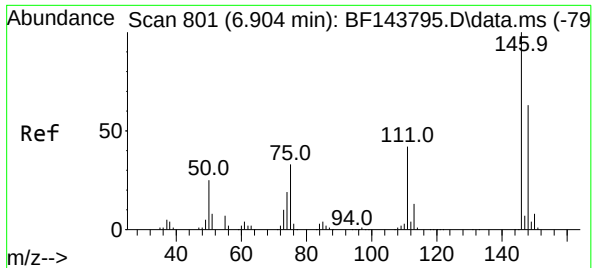
Reviewed By :Rahul Chavli 09/26/2025  
Supervised By :Jagrut Upadhyay 09/26/2025



#12  
1,3-Dichlorobenzene  
Concen: 42.294 ng  
RT: 6.828 min Scan# 788  
Delta R.T. -0.000 min  
Lab File: BF143804.D  
Acq: 25 Sep 2025 14:16

Tgt Ion:146 Resp: 479427  
Ion Ratio Lower Upper  
146 100  
148 63.2 50.4 75.6  
75 31.8 25.6 38.4





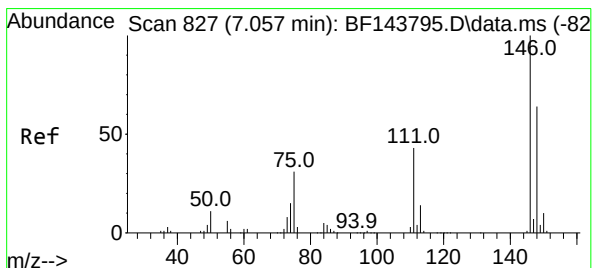
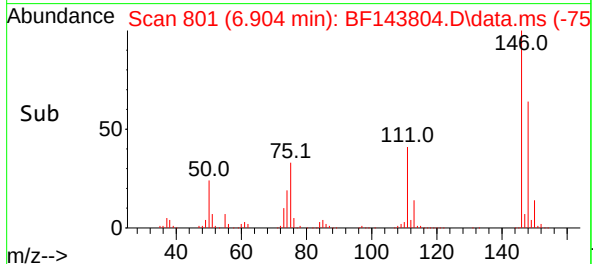
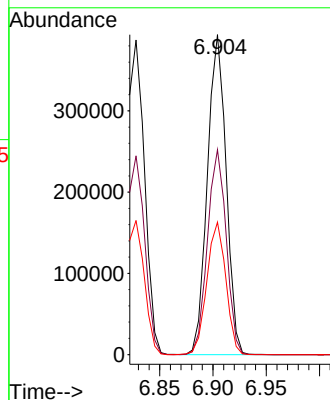
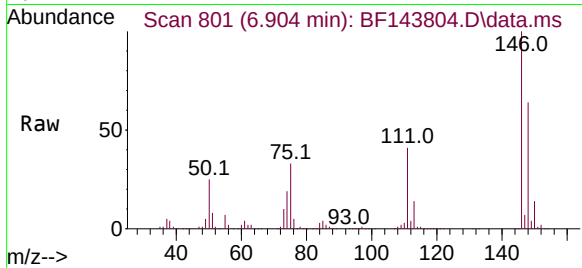
#13  
1,4-Dichlorobenzene  
Concen: 42.628 ng  
RT: 6.904 min Scan# 801  
Delta R.T. -0.000 min  
Lab File: BF143804.D  
Acq: 25 Sep 2025 14:16

Instrument :  
BNA\_F  
ClientSampleId :  
PB169827BS

Tgt Ion:146 Resp: 482234  
Ion Ratio Lower Upper  
146 100  
148 64.0 50.7 76.1  
111 41.4 33.4 50.2

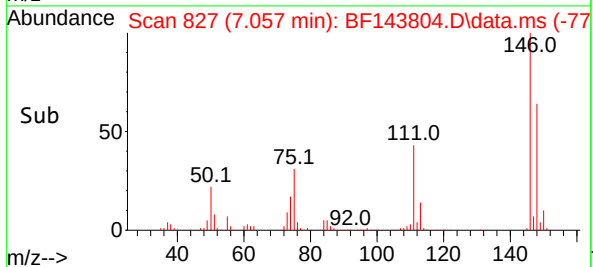
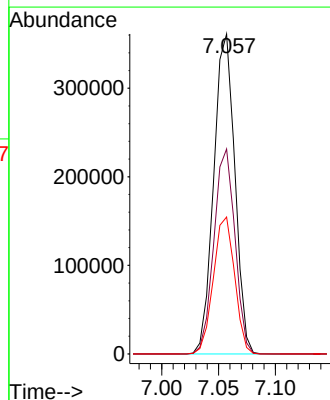
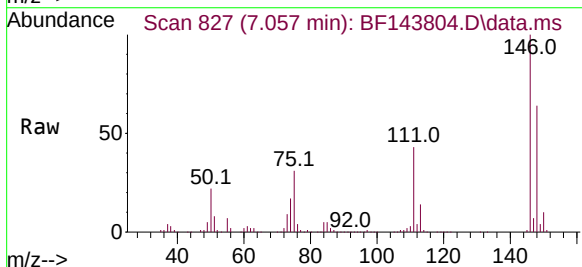
Manual Integrations  
APPROVED

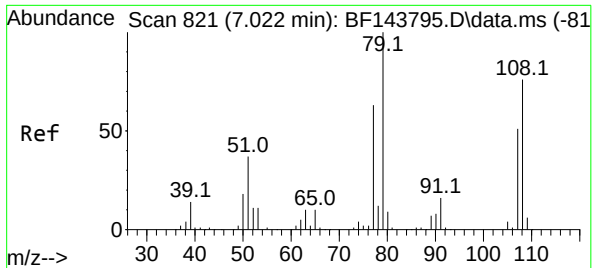
Reviewed By :Rahul Chavli 09/26/2025  
Supervised By :Jagrut Upadhyay 09/26/2025



#14  
1,2-Dichlorobenzene  
Concen: 43.571 ng  
RT: 7.057 min Scan# 827  
Delta R.T. -0.000 min  
Lab File: BF143804.D  
Acq: 25 Sep 2025 14:16

Tgt Ion:146 Resp: 466826  
Ion Ratio Lower Upper  
146 100  
148 64.0 51.1 76.7  
111 42.8 34.3 51.5





#15

Benzyl Alcohol

Concen: 46.552 ng

RT: 7.022 min Scan# 821

Delta R.T. -0.006 min

Lab File: BF143804.D

Acq: 25 Sep 2025 14:16

Instrument :

BNA\_F

ClientSampleId :

PB169827BS

Tgt Ion: 79 Resp: 370645

Ion Ratio Lower Upper

79 100

108 74.8 60.5 90.7

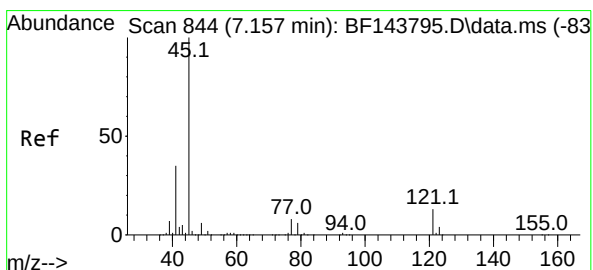
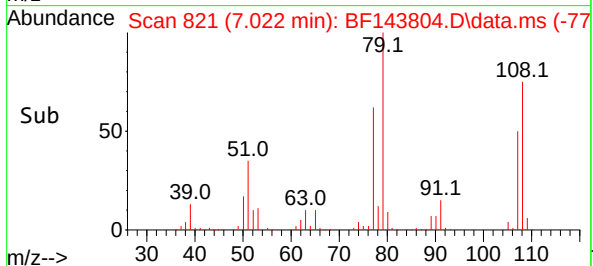
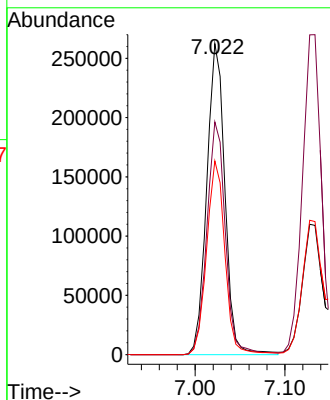
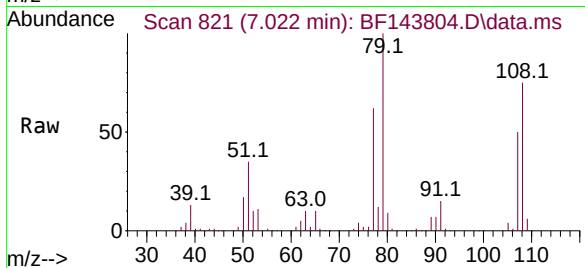
77 62.3 50.3 75.5

Manual Integrations

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Reviewed By :Rahul Chavli 09/26/2025

Supervised By :Jagrut Upadhyay 09/26/2025



#16

2,2'-oxybis(1-chloropropane)

Concen: 42.844 ng

RT: 7.157 min Scan# 844

Delta R.T. -0.000 min

Lab File: BF143804.D

Acq: 25 Sep 2025 14:16

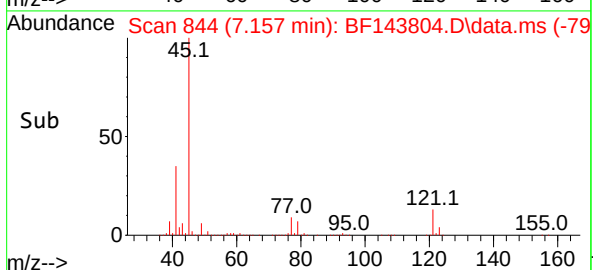
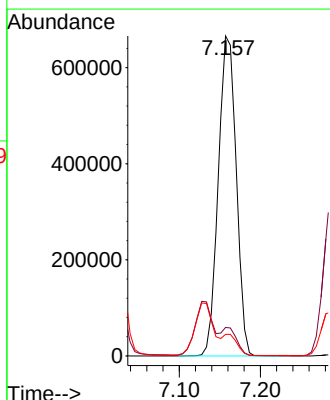
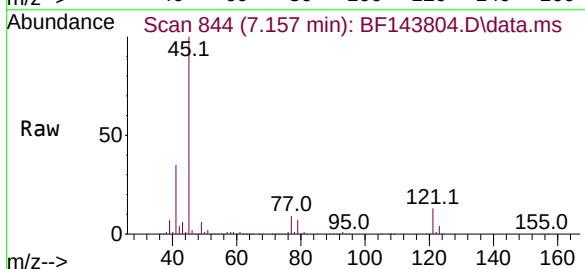
Tgt Ion: 45 Resp: 1020007

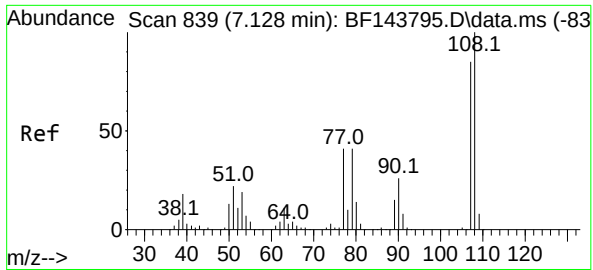
Ion Ratio Lower Upper

45 100

77 8.9 0.0 28.5

79 6.7 0.0 26.3





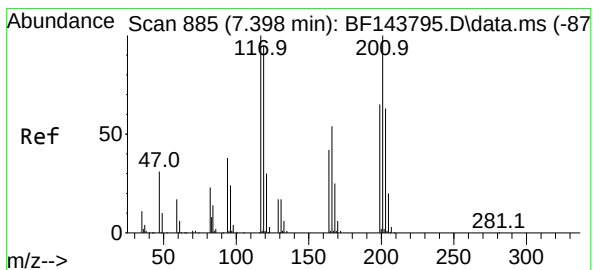
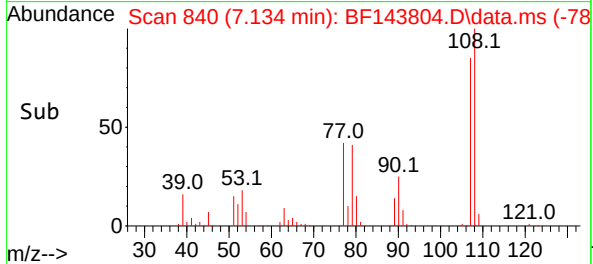
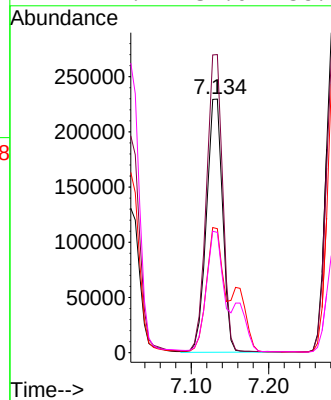
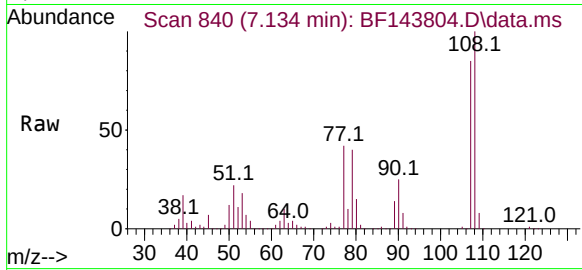
#17  
2-Methylphenol  
Concen: 44.076 ng  
RT: 7.134 min Scan# 840  
Delta R.T. -0.000 min  
Lab File: BF143804.D  
Acq: 25 Sep 2025 14:16

Instrument :  
BNA\_F  
ClientSampleId :  
PB169827BS

Tgt Ion:107 Resp: 333152  
Ion Ratio Lower Upper  
107 100  
108 117.6 94.2 141.4  
77 48.9 38.6 58.0  
79 47.4 39.0 58.4

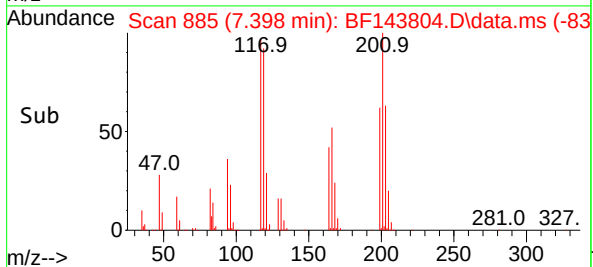
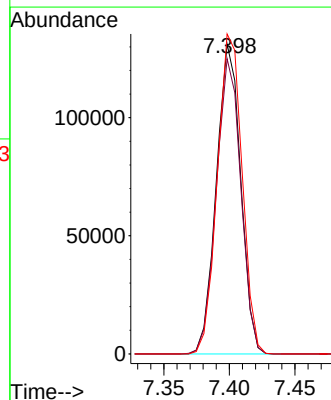
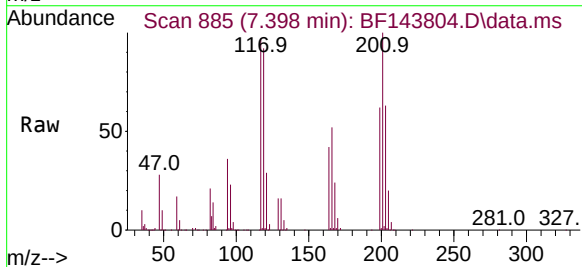
Manual Integrations  
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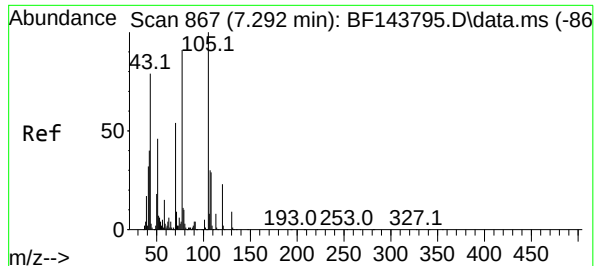
Reviewed By :Rahul Chavli 09/26/2025  
Supervised By :Jagrut Upadhyay 09/26/2025



#18  
Hexachloroethane  
Concen: 42.578 ng  
RT: 7.398 min Scan# 885  
Delta R.T. -0.006 min  
Lab File: BF143804.D  
Acq: 25 Sep 2025 14:16

Tgt Ion:117 Resp: 169392  
Ion Ratio Lower Upper  
117 100  
119 95.2 76.2 114.2  
201 103.3 79.7 119.5





#19

n-Nitroso-di-n-propylamine

Concen: 44.424 ng

RT: 7.298 min Scan# 868

Delta R.T. -0.006 min

Lab File: BF143804.D

Acq: 25 Sep 2025 14:16

Instrument :

BNA\_F

ClientSampleId :

PB169827BS

Tgt Ion: 70 Resp: 314780

Ion Ratio Lower Upper

70 100

42 71.9 59.4 89.0

101 8.8 7.1 10.7

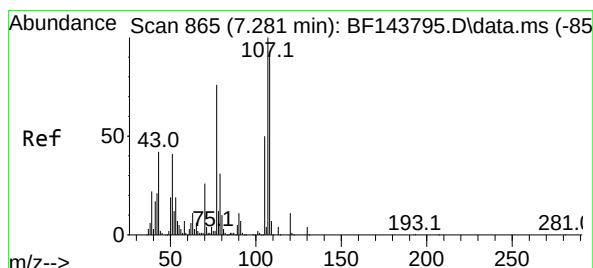
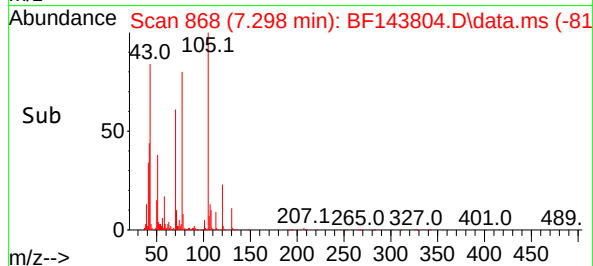
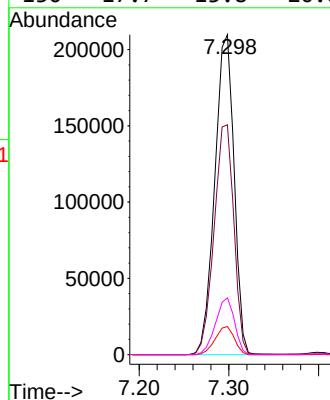
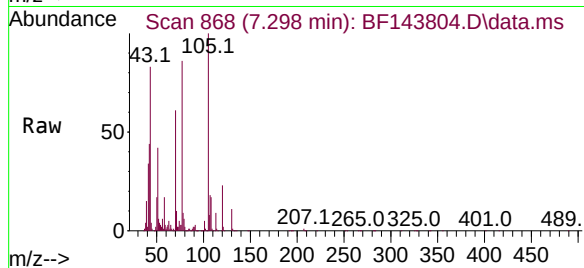
130 17.7 13.8 20.8

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Reviewed By :Rahul Chavli 09/26/2025

Supervised By :Jagrut Upadhyay 09/26/2025



#20

3+4-Methylphenols

Concen: 42.463 ng

RT: 7.281 min Scan# 865

Delta R.T. -0.006 min

Lab File: BF143804.D

Acq: 25 Sep 2025 14:16

Tgt Ion:107 Resp: 390864

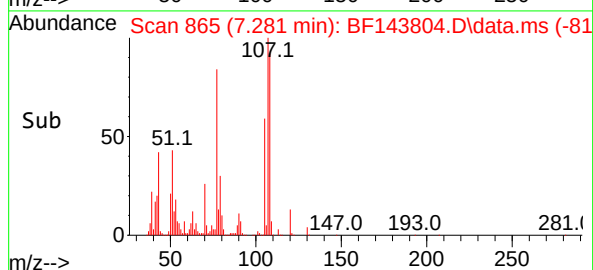
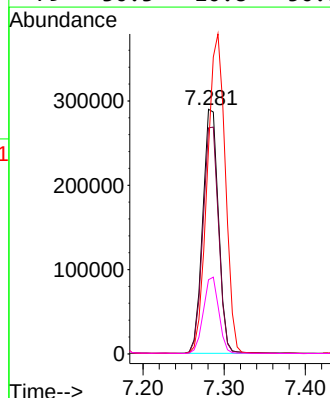
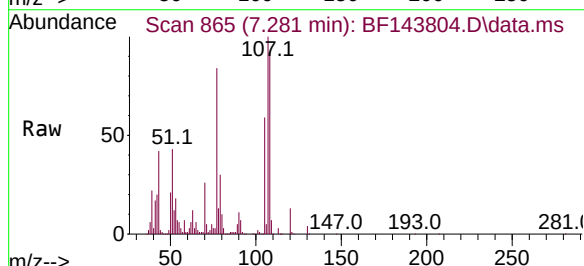
Ion Ratio Lower Upper

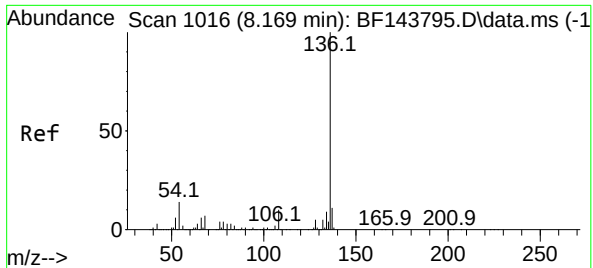
107 100

108 92.4 72.5 112.5

77 84.0 56.2 96.2

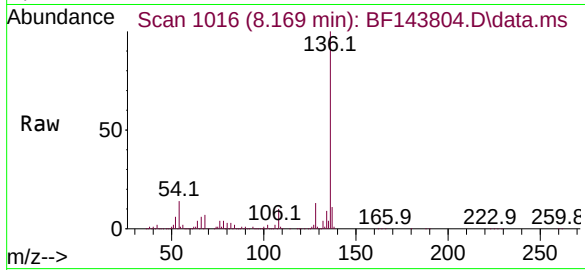
79 30.3 10.8 50.8





#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.169 min Scan# 1016  
Delta R.T. -0.000 min  
Lab File: BF143804.D  
Acq: 25 Sep 2025 14:16

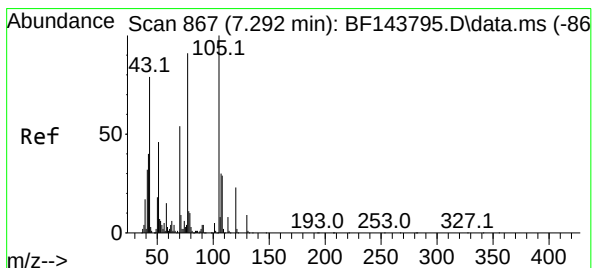
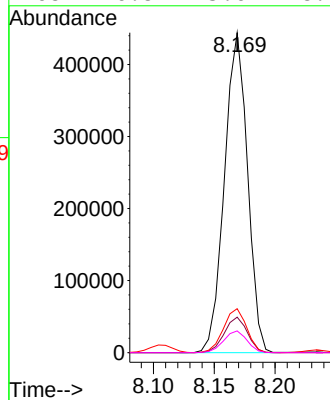
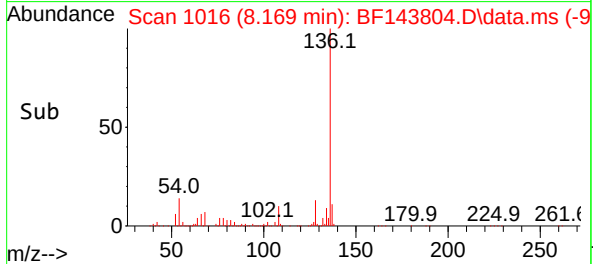
Instrument :  
BNA\_F  
ClientSampleId :  
PB169827BS



Tgt Ion:136 Resp: 586166  
Ion Ratio Lower Upper  
136 100  
137 11.1 9.0 13.4  
54 13.7 11.2 16.8  
68 6.8 5.6 8.4

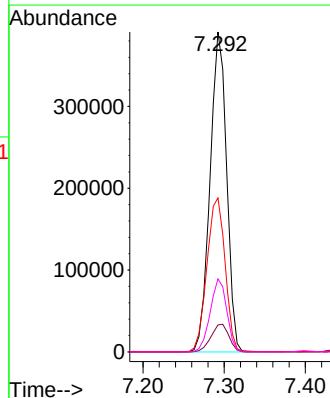
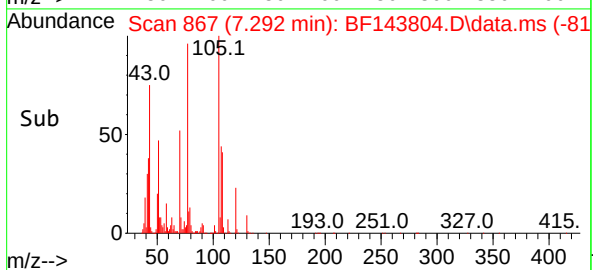
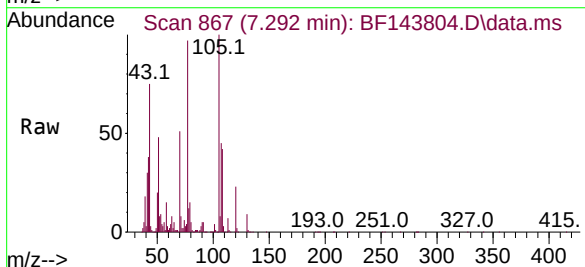
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Reviewed By :Rahul Chavli 09/26/2025  
Supervised By :Jagrut Upadhyay 09/26/2025

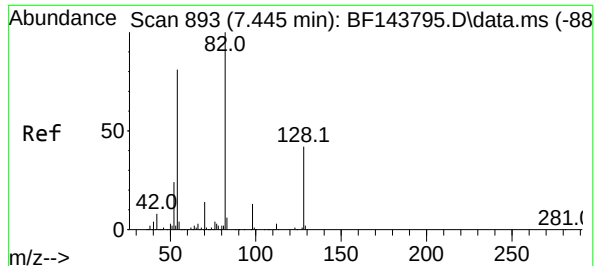


#22  
Acetophenone  
Concen: 43.177 ng  
RT: 7.292 min Scan# 867  
Delta R.T. -0.006 min  
Lab File: BF143804.D  
Acq: 25 Sep 2025 14:16

Tgt Ion:105 Resp: 555882  
Ion Ratio Lower Upper  
105 100  
71 8.4 7.0 10.4  
51 48.1 36.6 55.0  
120 22.8 18.1 27.1







#23

Nitrobenzene-d5

Concen: 84.250 ng

RT: 7.445 min Scan# 893

Delta R.T. -0.006 min

Lab File: BF143804.D

Acq: 25 Sep 2025 14:16

Instrument :

BNA\_F

ClientSampleId :

PB169827BS

Tgt Ion: 82 Resp: 80678

Ion Ratio Lower Upper

82 100

128 42.4 33.3 49.9

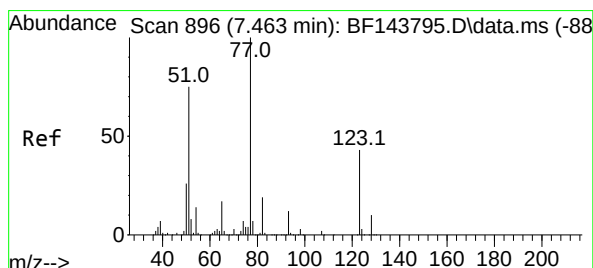
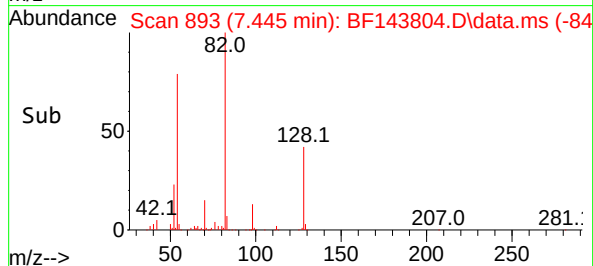
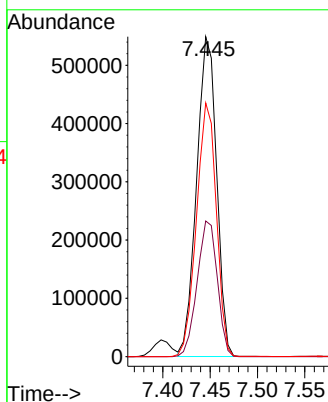
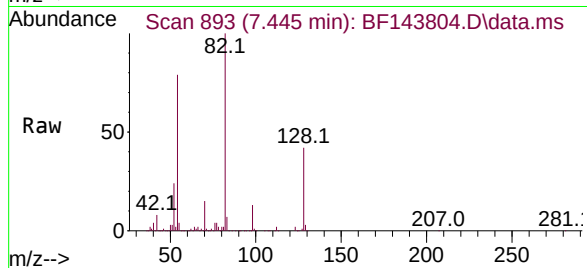
54 79.3 64.2 96.4

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Reviewed By :Rahul Chavli 09/26/2025

Supervised By :Jagrut Upadhyay 09/26/2025



#24

Nitrobenzene

Concen: 42.879 ng

RT: 7.469 min Scan# 897

Delta R.T. -0.006 min

Lab File: BF143804.D

Acq: 25 Sep 2025 14:16

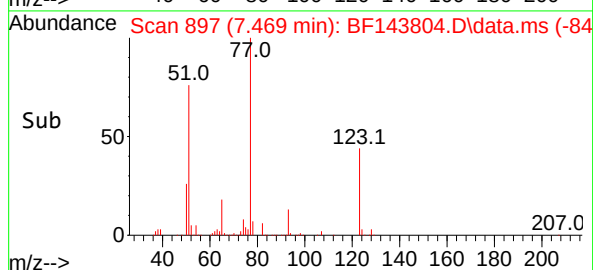
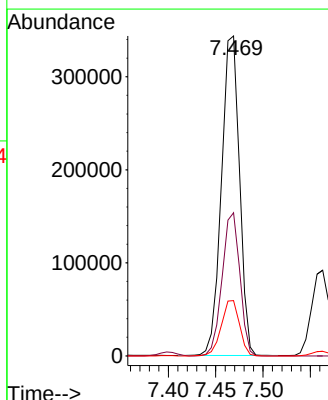
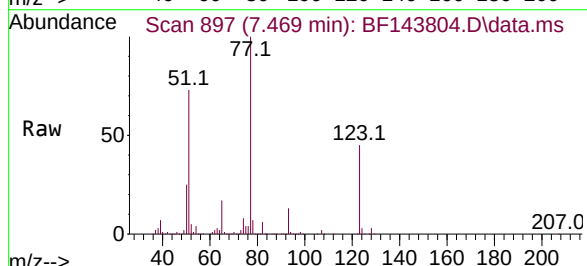
Tgt Ion: 77 Resp: 455128

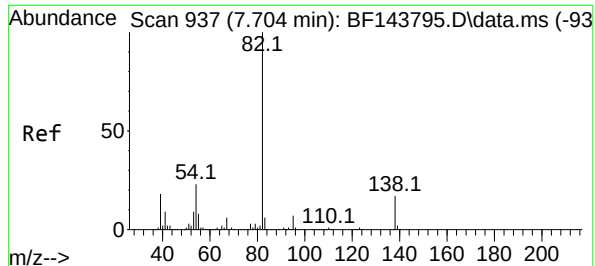
Ion Ratio Lower Upper

77 100

123 44.7 34.0 51.0

65 17.3 13.5 20.3





#25

Isophorone

Concen: 45.610 ng

RT: 7.704 min Scan# 937

Delta R.T. -0.006 min

Lab File: BF143804.D

Acq: 25 Sep 2025 14:16

Instrument :

BNA\_F

ClientSampleId :

PB169827BS

Tgt Ion: 82 Resp: 851108

Ion Ratio Lower Upper

82 100

95 6.8 5.4 8.2

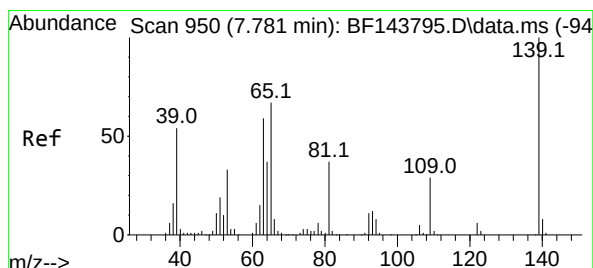
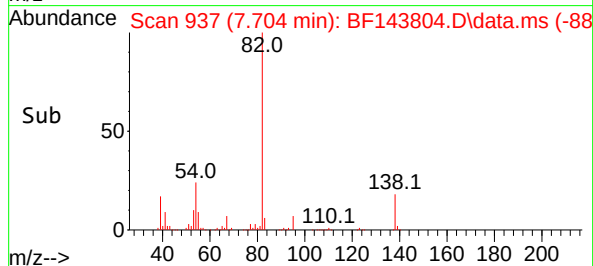
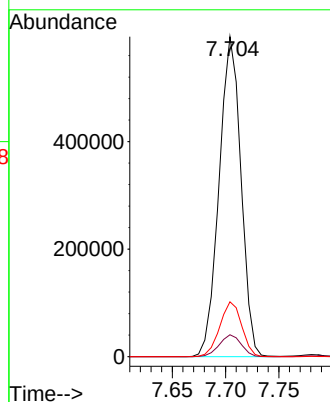
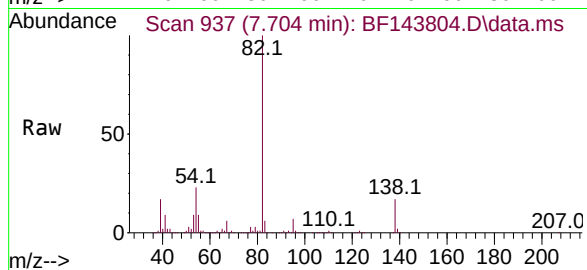
138 17.1 13.7 20.5

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Reviewed By :Rahul Chavli 09/26/2025

Supervised By :Jagrut Upadhyay 09/26/2025



#26

2-Nitrophenol

Concen: 44.766 ng

RT: 7.781 min Scan# 950

Delta R.T. -0.005 min

Lab File: BF143804.D

Acq: 25 Sep 2025 14:16

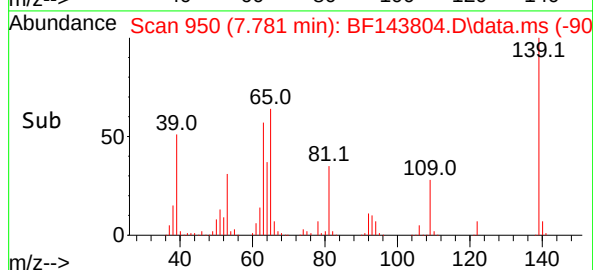
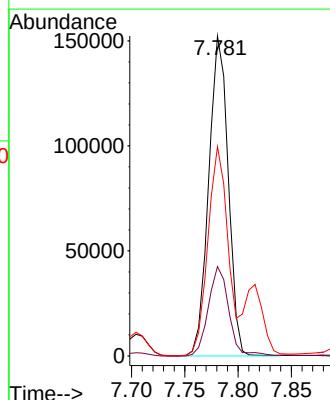
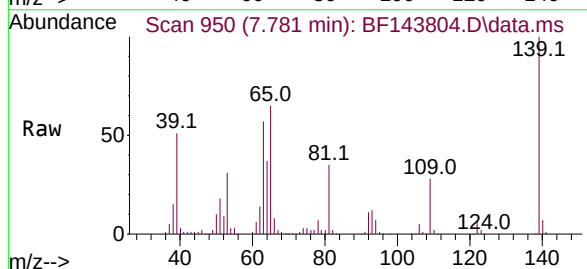
Tgt Ion:139 Resp: 194232

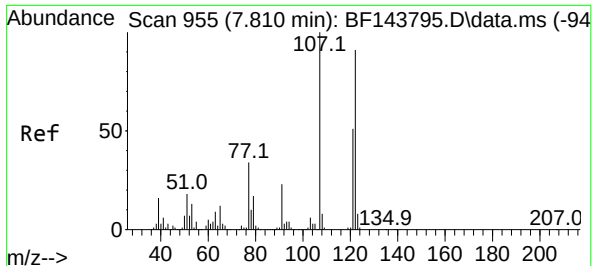
Ion Ratio Lower Upper

139 100

109 27.9 23.3 34.9

65 65.4 53.8 80.6





#27

2,4-Dimethylphenol

Concen: 46.755 ng

RT: 7.816 min Scan# 91

Delta R.T. -0.000 min

Lab File: BF143804.D

Acq: 25 Sep 2025 14:16

Instrument :

BNA\_F

ClientSampleId :

PB169827BS

Tgt Ion:122 Resp: 389964

Ion Ratio Lower Upper

122 100

107 109.7 87.5 131.3

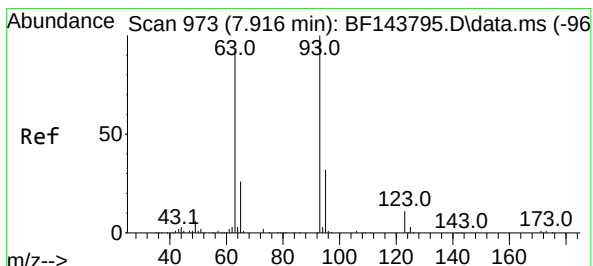
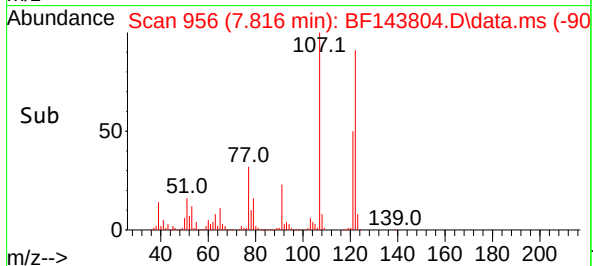
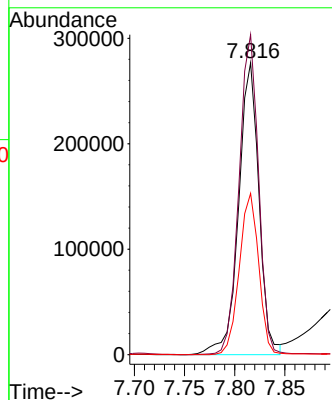
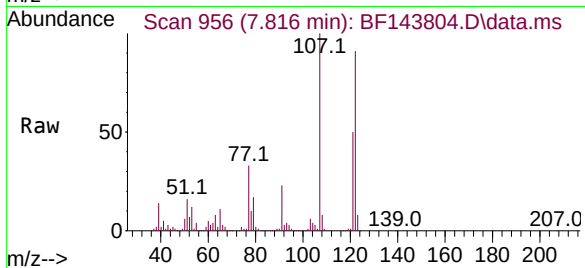
121 55.3 44.2 66.4

Manual Integrations

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Reviewed By :Rahul Chavli 09/26/2025

Supervised By :Jagrut Upadhyay 09/26/2025



#28

bis(2-Chloroethoxy)methane

Concen: 42.933 ng

RT: 7.916 min Scan# 973

Delta R.T. -0.000 min

Lab File: BF143804.D

Acq: 25 Sep 2025 14:16

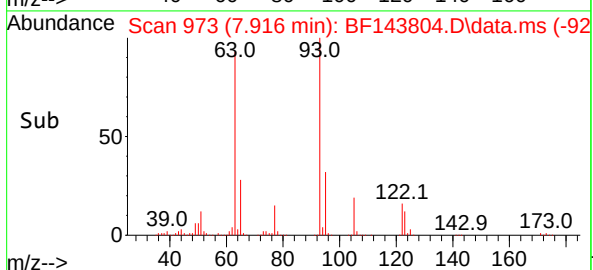
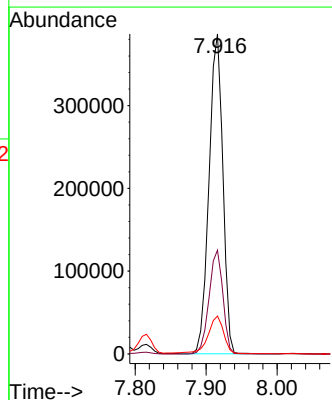
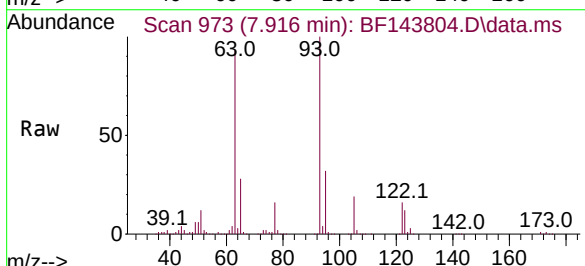
Tgt Ion: 93 Resp: 520514

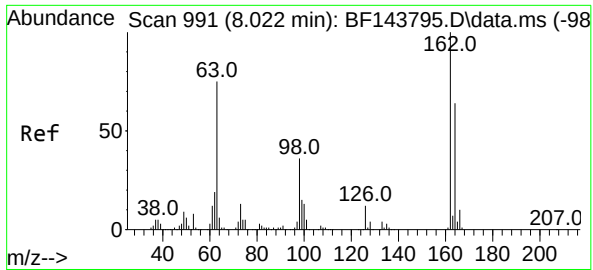
Ion Ratio Lower Upper

93 100

95 32.4 25.8 38.8

123 11.8 8.8 13.2





#29

2,4-Dichlorophenol

Concen: 42.716 ng

RT: 8.022 min Scan# 991

Delta R.T. -0.000 min

Lab File: BF143804.D

Acq: 25 Sep 2025 14:16

Instrument :

BNA\_F

ClientSampleId :

PB169827BS

Tgt Ion:162 Resp: 35056

Ion Ratio Lower Upper

162 100

164 63.4 44.1 84.1

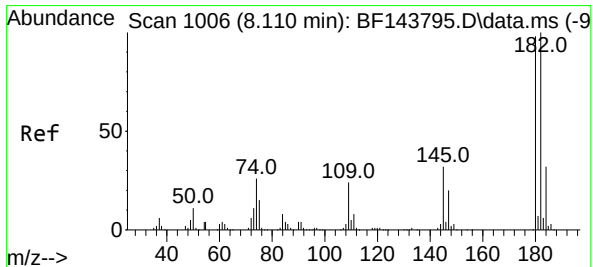
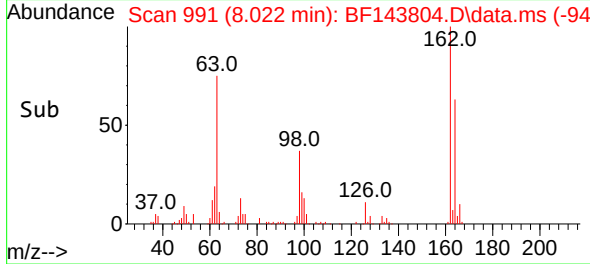
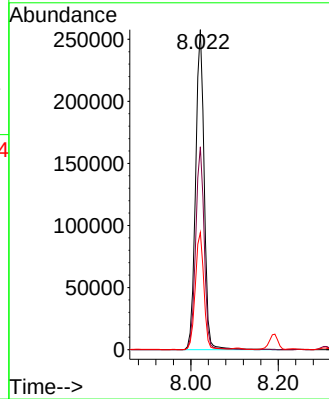
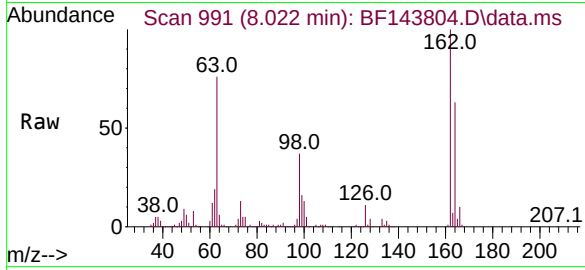
98 36.6 15.8 55.8

Manual Integrations

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Reviewed By :Rahul Chavli 09/26/2025

Supervised By :Jagrut Upadhyay 09/26/2025



#30

1,2,4-Trichlorobenzene

Concen: 44.973 ng

RT: 8.110 min Scan# 1006

Delta R.T. -0.000 min

Lab File: BF143804.D

Acq: 25 Sep 2025 14:16

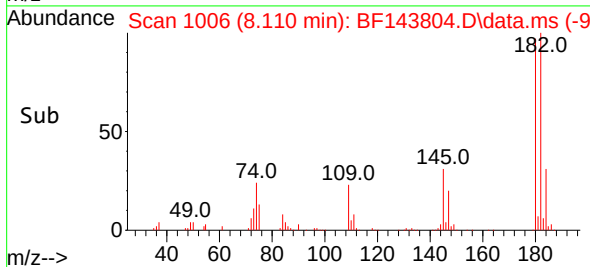
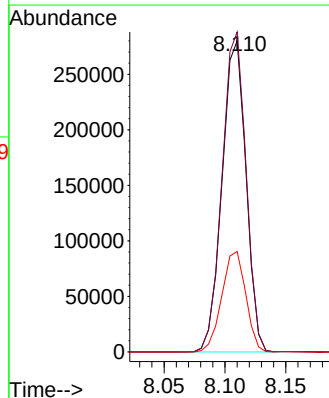
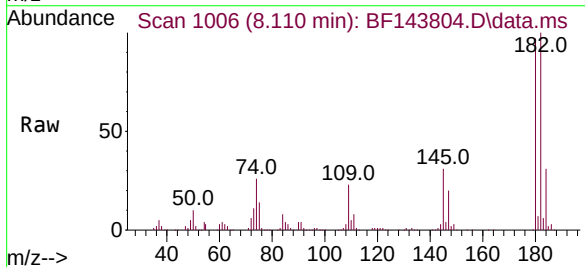
Tgt Ion:180 Resp: 383033

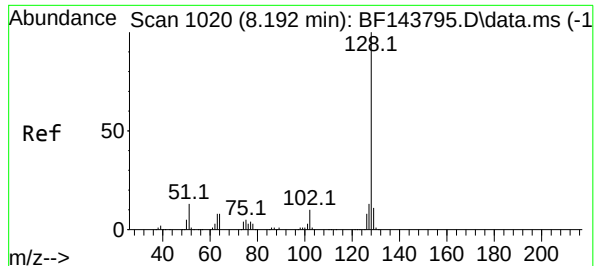
Ion Ratio Lower Upper

180 100

182 102.8 82.0 123.0

145 32.3 25.9 38.9





#31

Naphthalene

Concen: 41.443 ng

RT: 8.192 min Scan# 1020

Delta R.T. -0.000 min

Lab File: BF143804.D

Acq: 25 Sep 2025 14:16

Instrument :

BNA\_F

ClientSampleId :

PB169827BS

Tgt Ion:128 Resp: 1162906

Ion Ratio Lower Upper

128 100

129 11.0 8.8 13.2

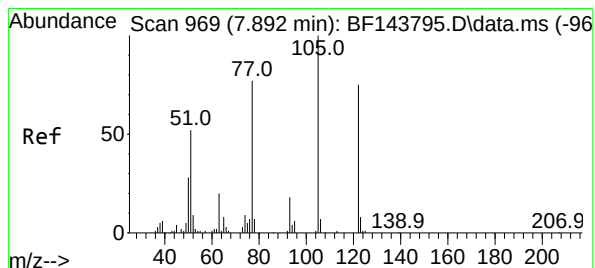
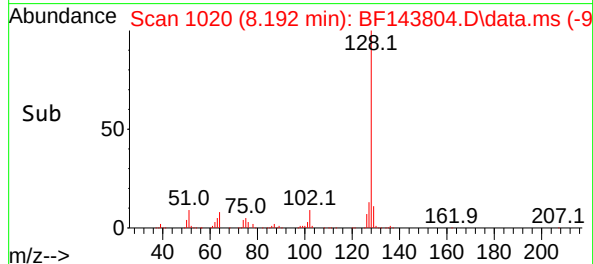
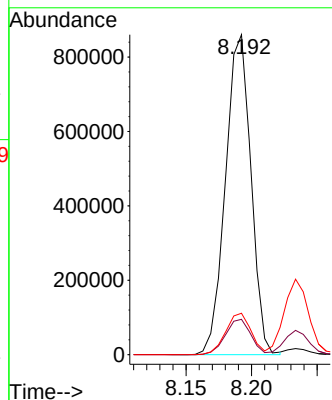
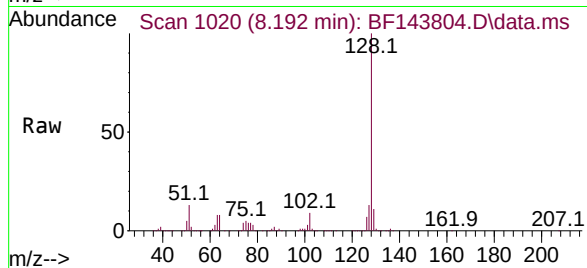
127 12.9 10.2 15.4

Manual Integrations

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Reviewed By :Rahul Chavli 09/26/2025

Supervised By :Jagrut Upadhyay 09/26/2025



#32

Benzoic acid

Concen: 52.321 ng m

RT: 7.916 min Scan# 973

Delta R.T. -0.006 min

Lab File: BF143804.D

Acq: 25 Sep 2025 14:16

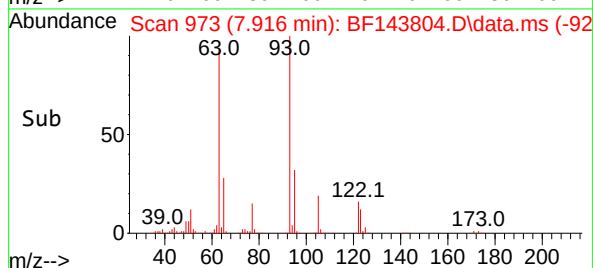
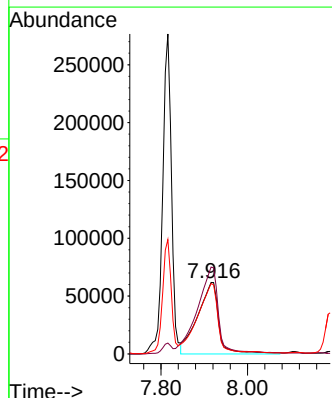
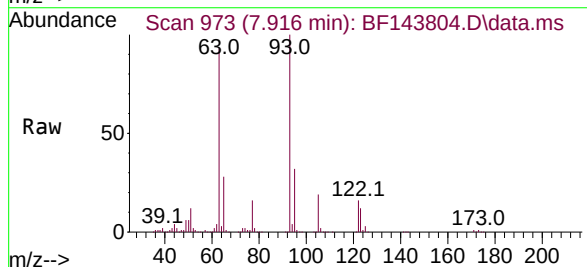
Tgt Ion:122 Resp: 210549

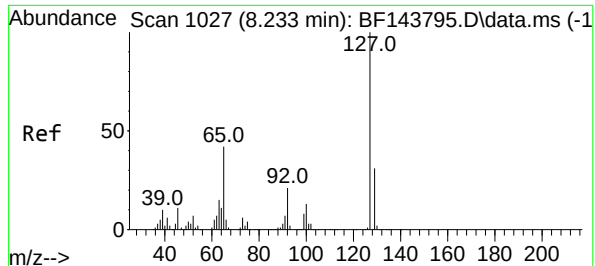
Ion Ratio Lower Upper

122 100

105 121.6 103.7 143.7

77 98.5 78.8 118.8





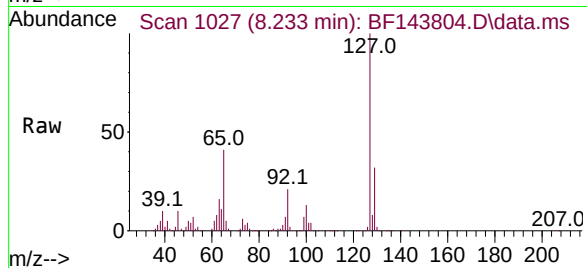
#33  
4-Chloroaniline  
Concen: 27.426 ng  
RT: 8.233 min Scan# 1027  
Delta R.T. -0.006 min  
Lab File: BF143804.D  
Acq: 25 Sep 2025 14:16

Instrument :

BNA\_F

ClientSampleId :

PB169827BS

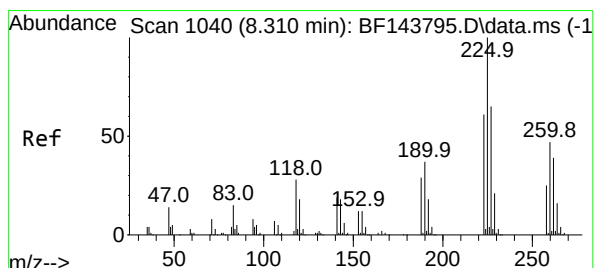
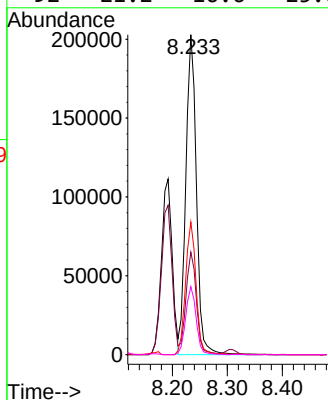
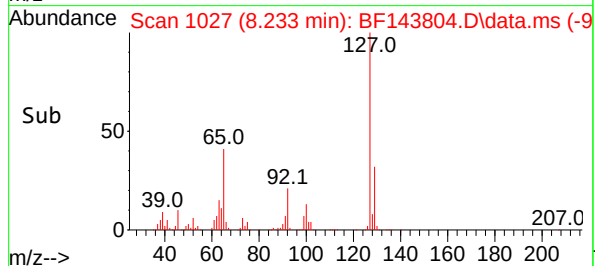


Tgt Ion:127 Resp: 270444  
Ion Ratio Lower Upper  
127 100  
129 32.0 25.4 38.2  
65 41.4 33.4 50.2  
92 21.2 16.6 25.0

Manual Integrations

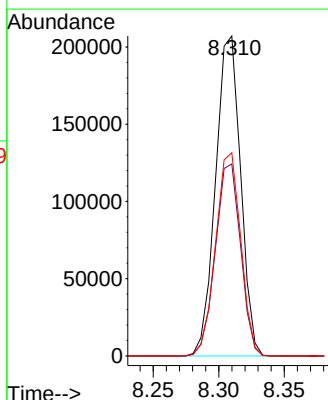
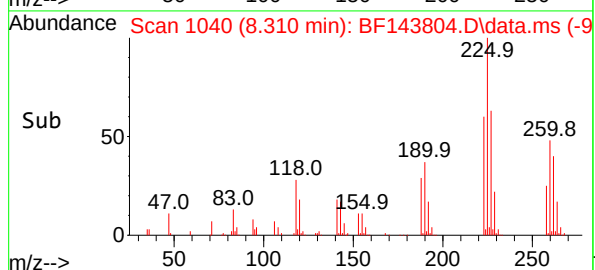
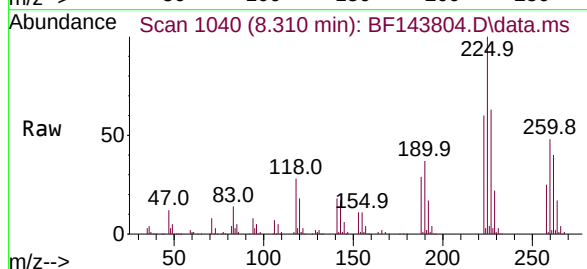
APPROVED

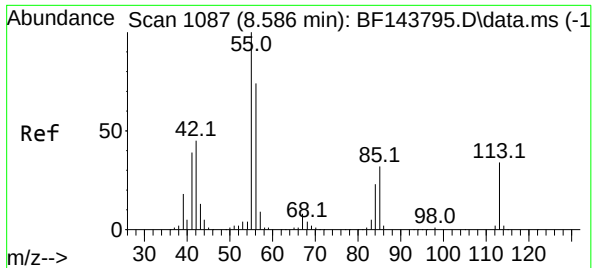
Reviewed By :Rahul Chavli 09/26/2025  
Supervised By :Jagrut Upadhyay 09/26/2025



#34  
Hexachlorobutadiene  
Concen: 43.434 ng  
RT: 8.310 min Scan# 1040  
Delta R.T. -0.000 min  
Lab File: BF143804.D  
Acq: 25 Sep 2025 14:16

Tgt Ion:225 Resp: 275769  
Ion Ratio Lower Upper  
225 100  
223 60.0 48.6 72.8  
227 63.5 51.9 77.9





#35

Caprolactam

Concen: 49.671 ng m

RT: 8.592 min Scan# 1087

Delta R.T. -0.018 min

Lab File: BF143804.D

Acq: 25 Sep 2025 14:16

Instrument :

BNA\_F

ClientSampleId :

PB169827BS

Tgt Ion:113 Resp: 104193

Ion Ratio Lower Upper

113 100

55 279.3 271.7 311.7

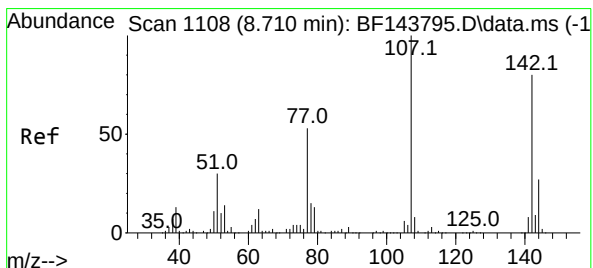
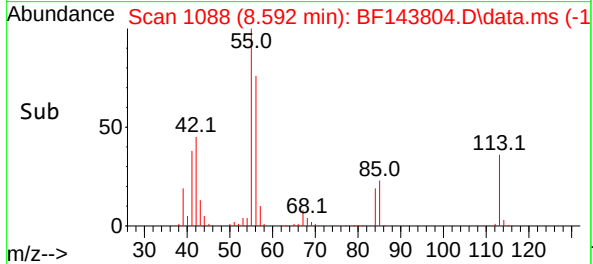
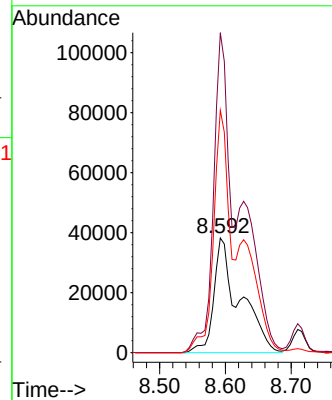
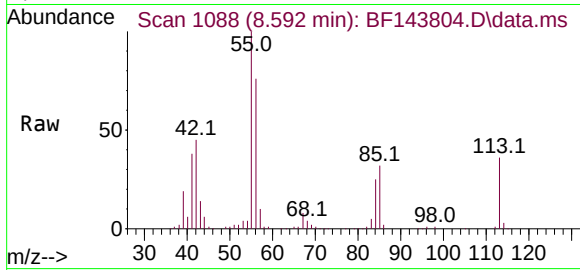
56 211.5 194.5 234.5

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/26/2025

Supervised By :Jagrut Upadhyay 09/26/2025



#36

4-Chloro-3-methylphenol

Concen: 44.128 ng

RT: 8.710 min Scan# 1108

Delta R.T. -0.000 min

Lab File: BF143804.D

Acq: 25 Sep 2025 14:16

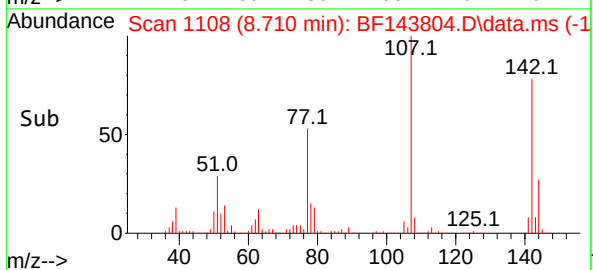
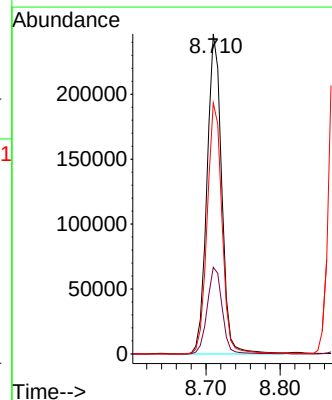
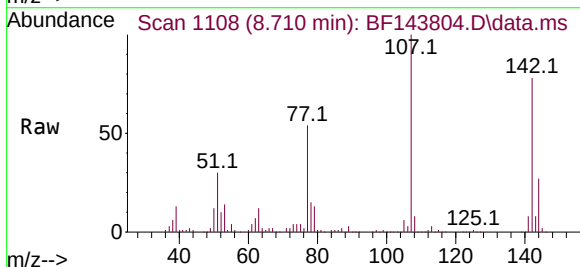
Tgt Ion:107 Resp: 339654

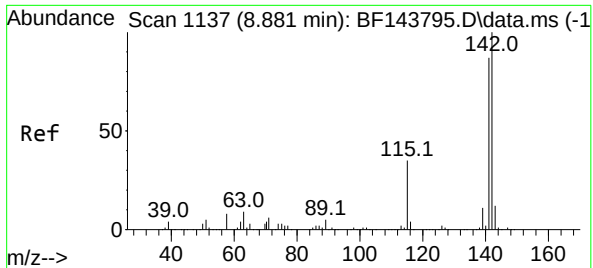
Ion Ratio Lower Upper

107 100

144 27.1 21.8 32.8

142 78.4 63.6 95.4





#37

2-Methylnaphthalene

Concen: 38.789 ng

RT: 8.880 min Scan# 1137

Delta R.T. -0.000 min

Lab File: BF143804.D

Acq: 25 Sep 2025 14:16

Instrument :

BNA\_F

ClientSampleId :

PB169827BS

Tgt Ion:142 Resp: 694046

Ion Ratio Lower Upper

142 100

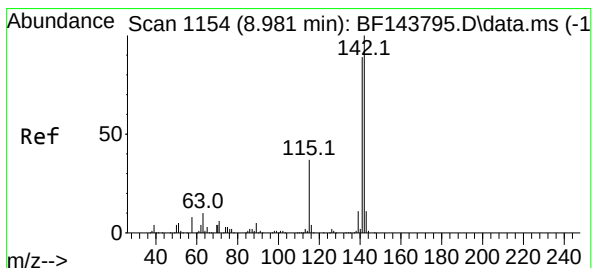
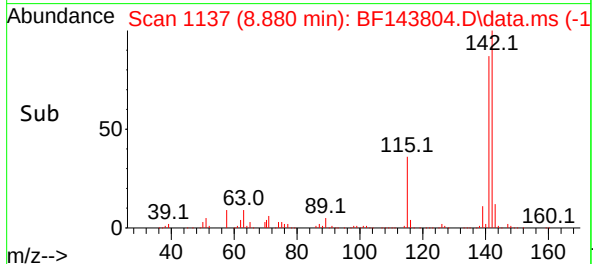
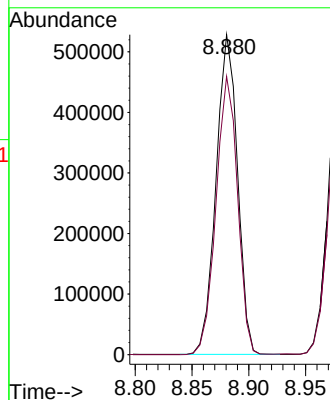
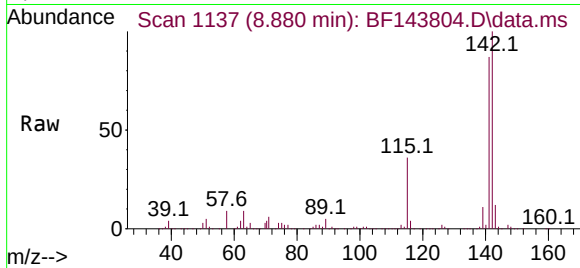
141 86.9 69.4 104.0

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/26/2025

Supervised By :Jagrut Upadhyay 09/26/2025



#38

1-Methylnaphthalene

Concen: 41.768 ng

RT: 8.980 min Scan# 1154

Delta R.T. -0.000 min

Lab File: BF143804.D

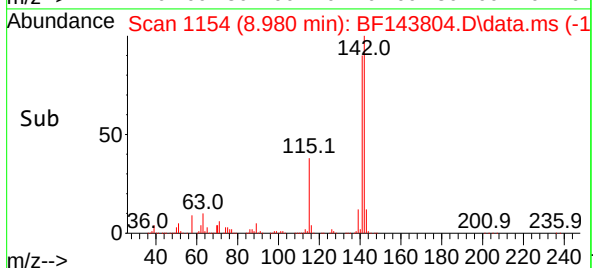
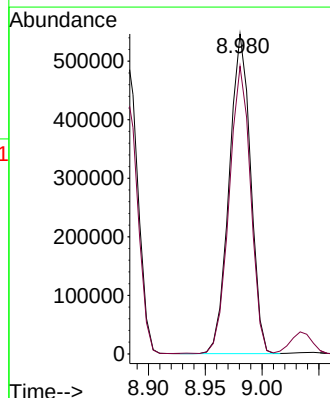
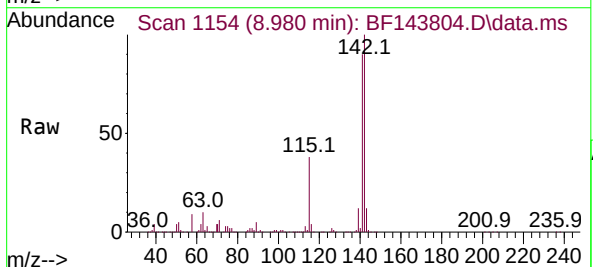
Acq: 25 Sep 2025 14:16

Tgt Ion:142 Resp: 715322

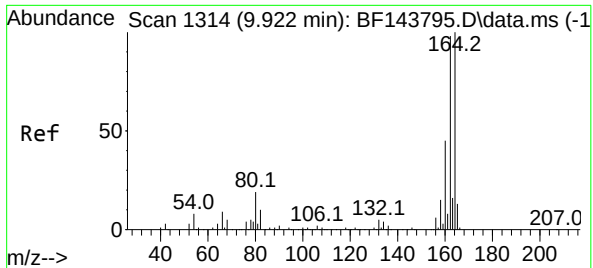
Ion Ratio Lower Upper

142 100

141 89.9 71.1 106.7







#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.927 min Scan# 1314

Delta R.T. -0.001 min

Lab File: BF143804.D

Acq: 25 Sep 2025 14:16

Instrument :

BNA\_F

ClientSampleId :

PB169827BS

Tgt Ion:164 Resp: 295245

Ion Ratio Lower Upper

164 100

162 98.4 78.8 118.2

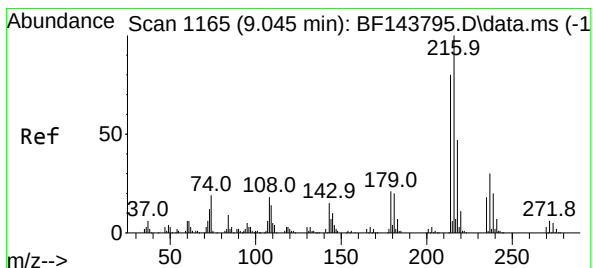
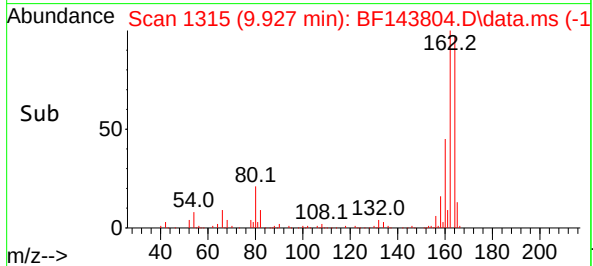
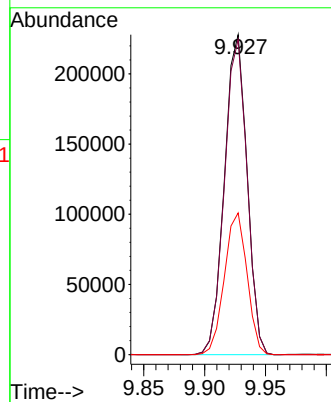
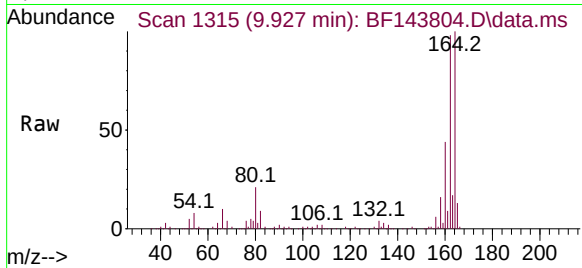
160 44.3 35.8 53.6

Manual Integrations

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Reviewed By :Rahul Chavli 09/26/2025

Supervised By :Jagrut Upadhyay 09/26/2025



#40

1,2,4,5-Tetrachlorobenzene

Concen: 41.402 ng

RT: 9.045 min Scan# 1165

Delta R.T. -0.006 min

Lab File: BF143804.D

Acq: 25 Sep 2025 14:16

Tgt Ion:216 Resp: 368894

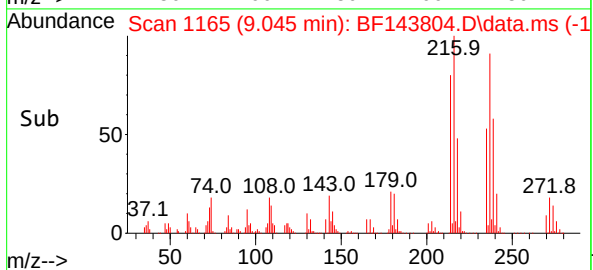
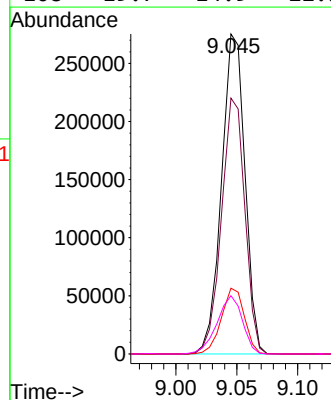
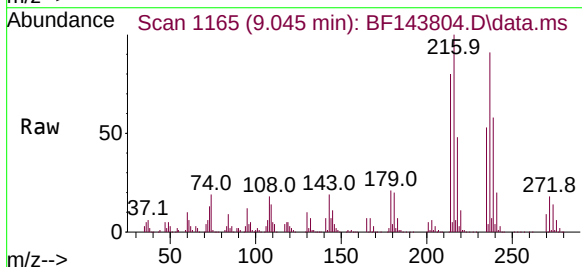
Ion Ratio Lower Upper

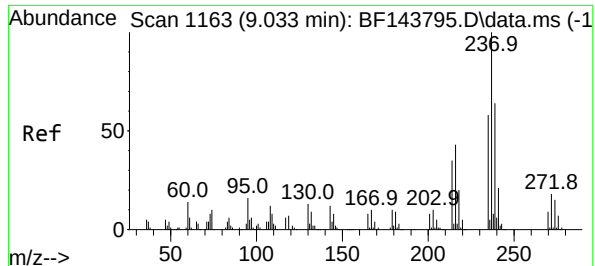
216 100

214 79.7 63.7 95.5

179 20.2 16.5 24.7

108 19.7 14.9 22.3





#41

Hexachlorocyclopentadiene

Concen: 105.022 ng

RT: 9.033 min Scan# 1163

Delta R.T. -0.006 min

Lab File: BF143804.D

Acq: 25 Sep 2025 14:16

Instrument :

BNA\_F

ClientSampleId :

PB169827BS

Tgt Ion:237 Resp: 593049

Ion Ratio Lower Upper

237 100

235 59.0 38.1 78.1

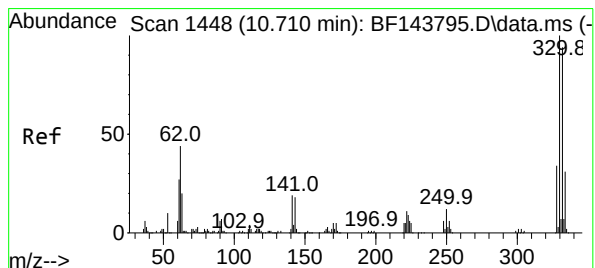
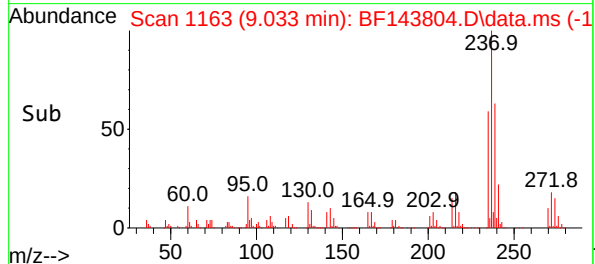
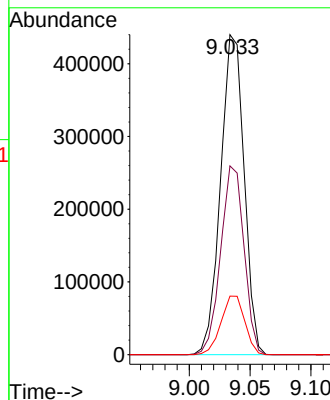
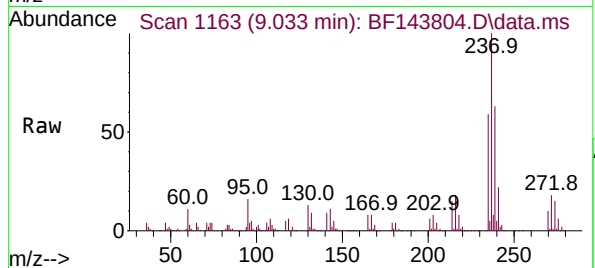
272 18.3 0.0 37.9

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/26/2025

Supervised By :Jagrut Upadhyay 09/26/2025



#42

2,4,6-Tribromophenol

Concen: 109.742 ng

RT: 10.716 min Scan# 1449

Delta R.T. -0.000 min

Lab File: BF143804.D

Acq: 25 Sep 2025 14:16

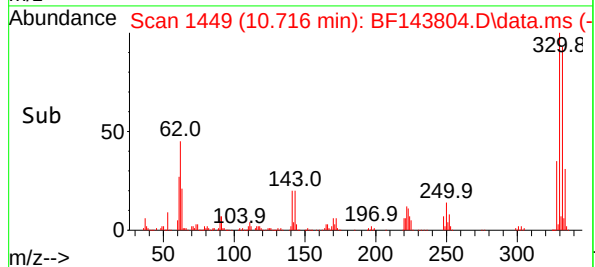
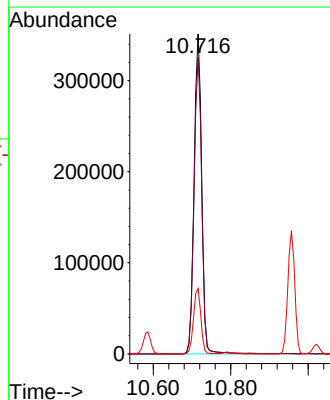
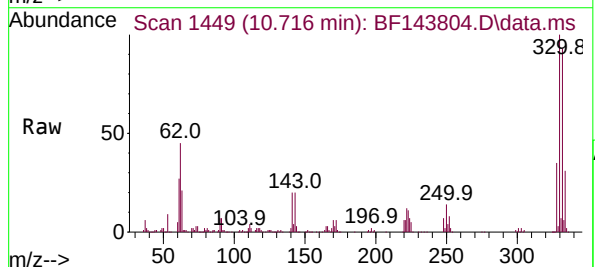
Tgt Ion:330 Resp: 479746

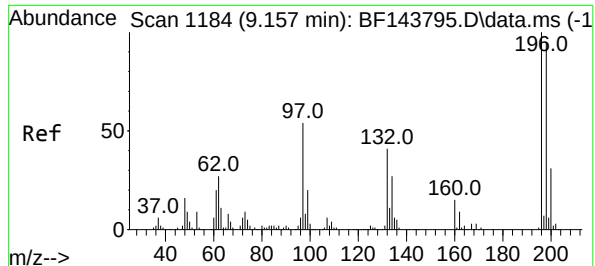
Ion Ratio Lower Upper

330 100

332 92.8 74.7 112.1

141 19.8 14.3 21.5





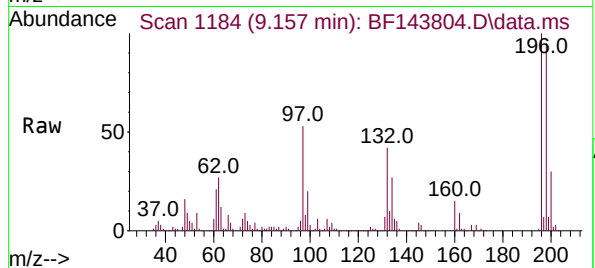
#43  
2,4,6-Trichlorophenol  
Concen: 45.563 ng  
RT: 9.157 min Scan# 1184  
Delta R.T. -0.000 min  
Lab File: BF143804.D  
Acq: 25 Sep 2025 14:16

Instrument :

BNA\_F

ClientSampleId :

PB169827BS

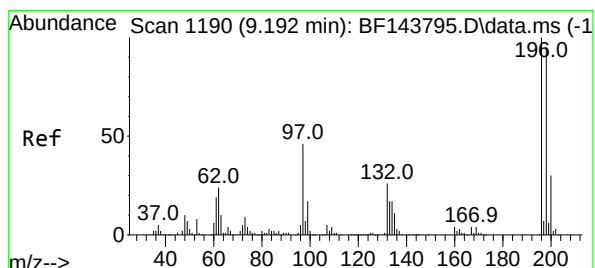
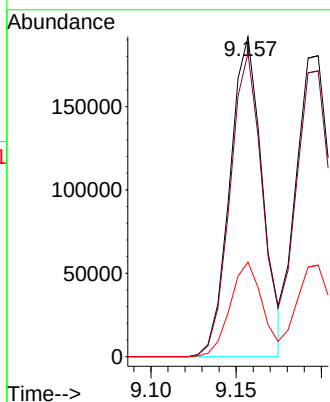
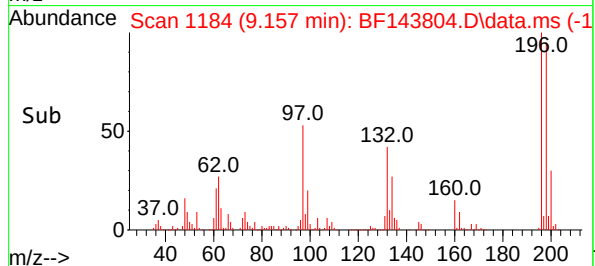


Tgt Ion:196 Resp: 254202  
Ion Ratio Lower Upper  
196 100  
198 94.9 76.2 114.2  
200 29.5 24.7 37.1

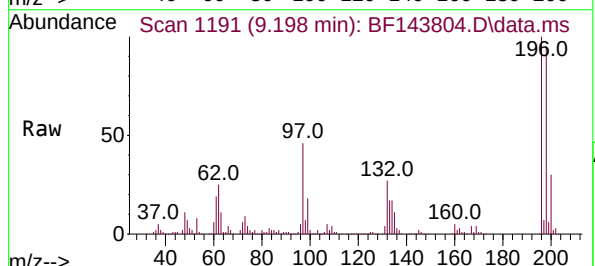
Manual Integrations

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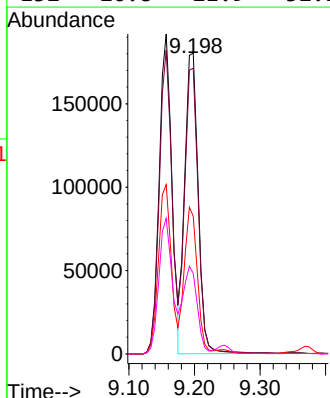
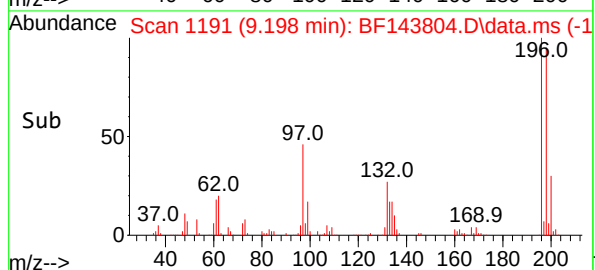
Reviewed By :Rahul Chavli 09/26/2025  
Supervised By :Jagrut Upadhyay 09/26/2025

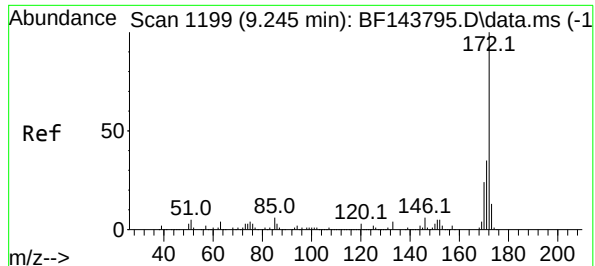


#44  
2,4,5-Trichlorophenol  
Concen: 44.524 ng  
RT: 9.198 min Scan# 1191  
Delta R.T. 0.006 min  
Lab File: BF143804.D  
Acq: 25 Sep 2025 14:16



Tgt Ion:196 Resp: 259825  
Ion Ratio Lower Upper  
196 100  
198 95.0 75.9 113.9  
97 45.8 38.3 57.5  
132 26.8 21.9 32.9





#45

2-Fluorobiphenyl

Concen: 80.812 ng

RT: 9.245 min Scan# 1199

Delta R.T. 0.000 min

Lab File: BF143804.D

Acq: 25 Sep 2025 14:16

Instrument :

BNA\_F

ClientSampleId :

PB169827BS

Tgt Ion:172 Resp: 1528950

Ion Ratio Lower Upper

172 100

171 34.9 27.9 41.9

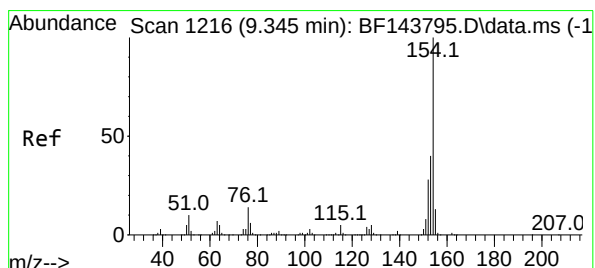
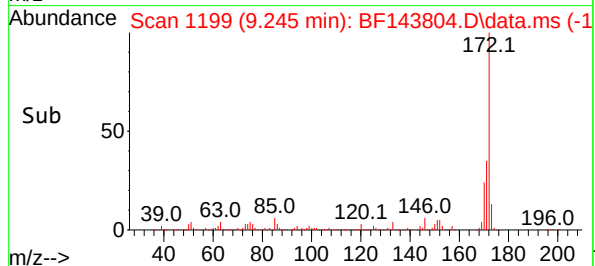
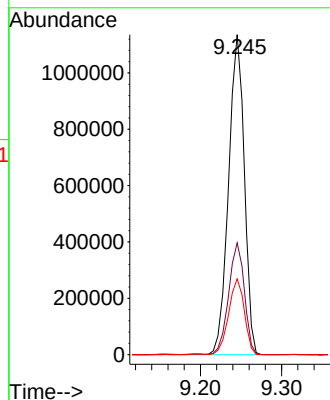
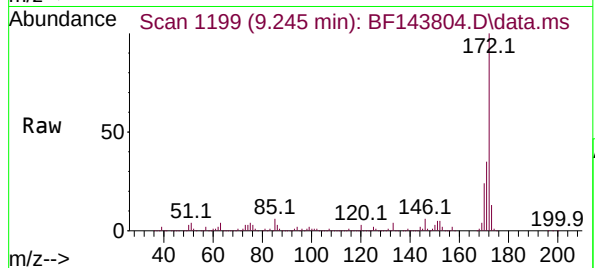
170 23.7 19.1 28.7

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/26/2025

Supervised By :Jagrut Upadhyay 09/26/2025



#46

1,1'-Biphenyl

Concen: 42.764 ng

RT: 9.345 min Scan# 1216

Delta R.T. 0.000 min

Lab File: BF143804.D

Acq: 25 Sep 2025 14:16

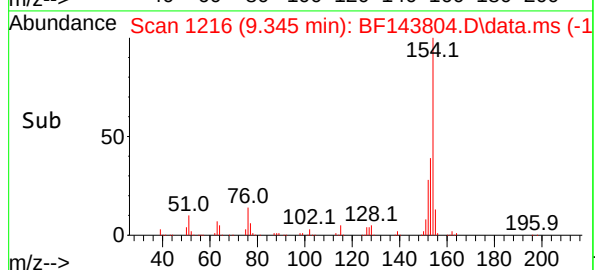
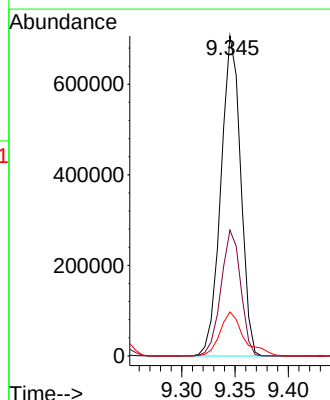
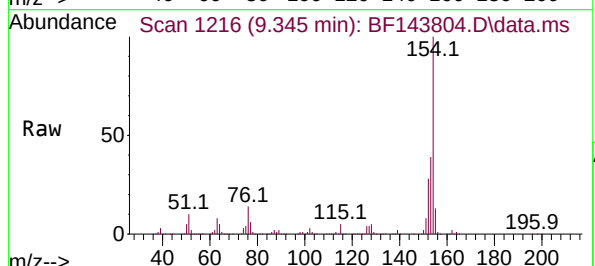
Tgt Ion:154 Resp: 913939

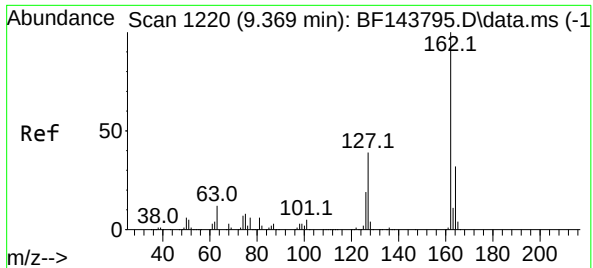
Ion Ratio Lower Upper

154 100

153 39.3 19.7 59.7

76 13.7 0.0 33.8





#47

2-Chloronaphthalene

Concen: 41.897 ng

RT: 9.369 min Scan# 1220

Delta R.T. -0.006 min

Lab File: BF143804.D

Acq: 25 Sep 2025 14:16

Instrument :

BNA\_F

ClientSampleId :

PB169827BS

Tgt Ion:162 Resp: 72077

Ion Ratio Lower Upper

162 100

127 39.8 31.5 47.3

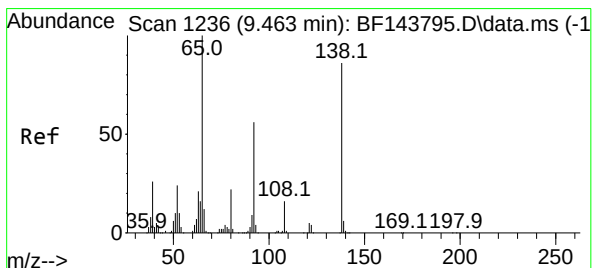
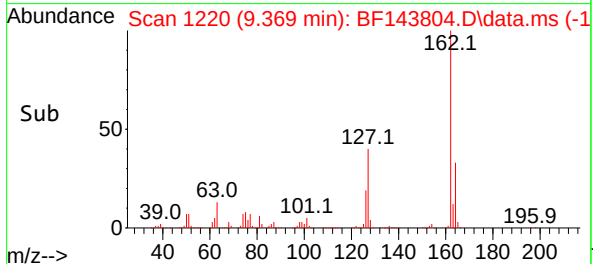
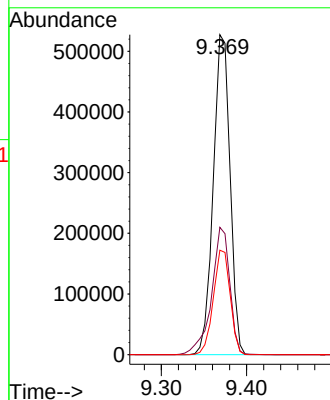
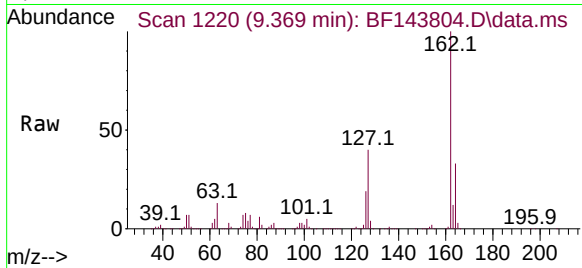
164 32.7 25.9 38.9

Manual Integrations

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Reviewed By :Rahul Chavli 09/26/2025

Supervised By :Jagrut Upadhyay 09/26/2025



#48

2-Nitroaniline

Concen: 49.800 ng

RT: 9.463 min Scan# 1236

Delta R.T. -0.000 min

Lab File: BF143804.D

Acq: 25 Sep 2025 14:16

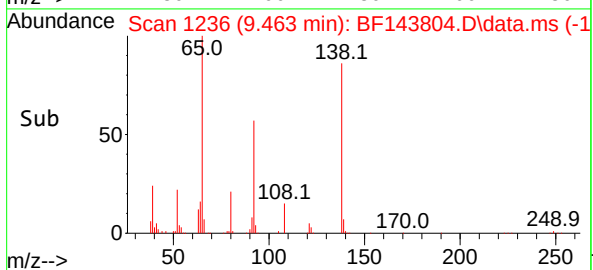
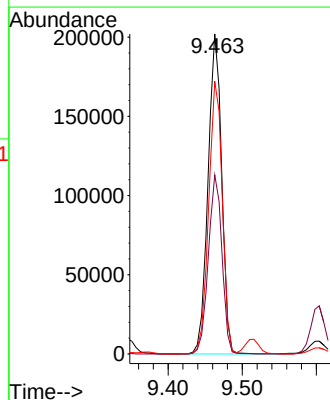
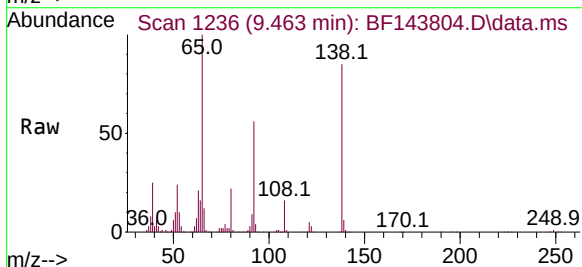
Tgt Ion: 65 Resp: 258937

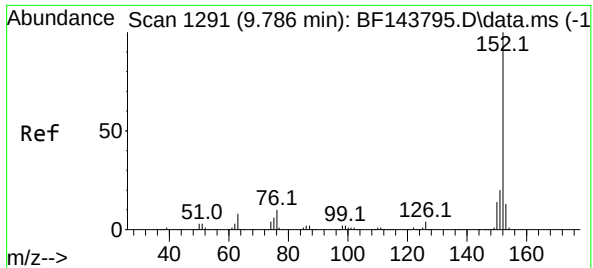
Ion Ratio Lower Upper

65 100

92 56.0 44.9 67.3

138 85.2 69.0 103.4





#49

Acenaphthylene

Concen: 47.592 ng

RT: 9.786 min Scan# 1291

Delta R.T. -0.000 min

Lab File: BF143804.D

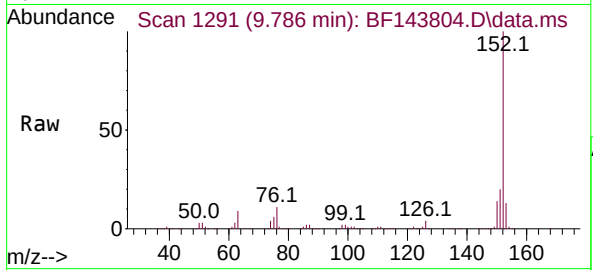
Acq: 25 Sep 2025 14:16

Instrument :

BNA\_F

ClientSampleId :

PB169827BS



Tgt Ion:152 Resp: 1127108

Ion Ratio Lower Upper

152 100

151 19.7 15.7 23.5

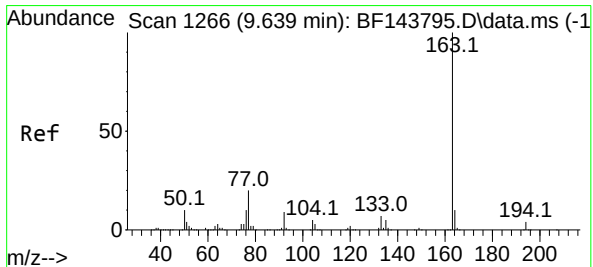
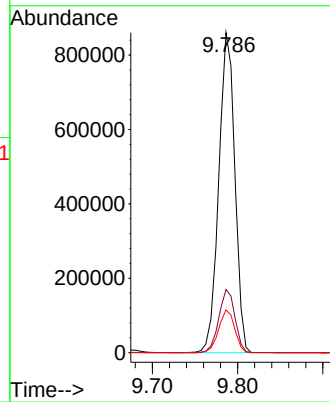
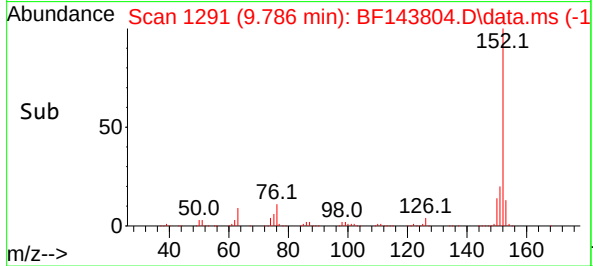
153 13.4 10.6 15.8

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/26/2025

Supervised By :Jagrut Upadhyay 09/26/2025



#50

Dimethylphthalate

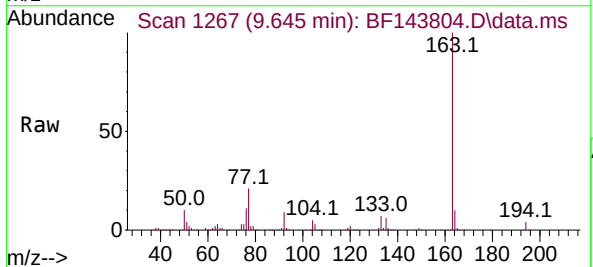
Concen: 45.221 ng

RT: 9.645 min Scan# 1267

Delta R.T. 0.006 min

Lab File: BF143804.D

Acq: 25 Sep 2025 14:16



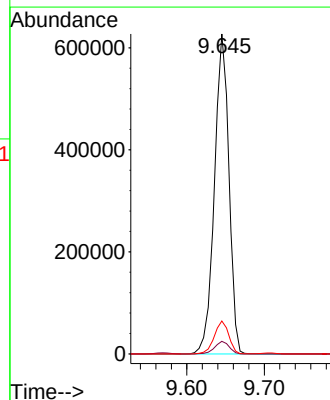
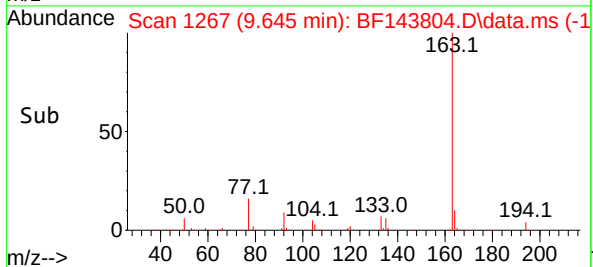
Tgt Ion:163 Resp: 813768

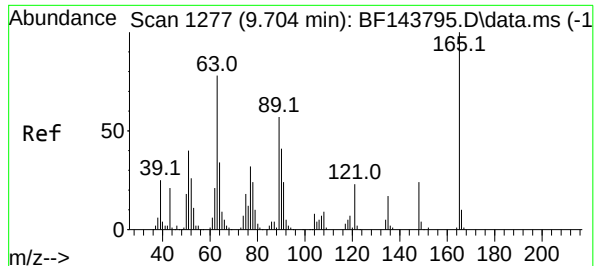
Ion Ratio Lower Upper

163 100

194 3.9 3.0 4.6

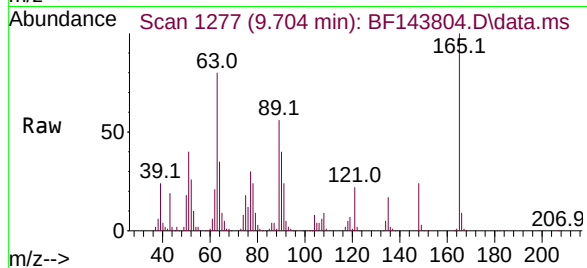
164 10.3 8.2 12.2





#51  
2,6-Dinitrotoluene  
Concen: 56.554 ng  
RT: 9.704 min Scan# 1277  
Delta R.T. -0.000 min  
Lab File: BF143804.D  
Acq: 25 Sep 2025 14:16

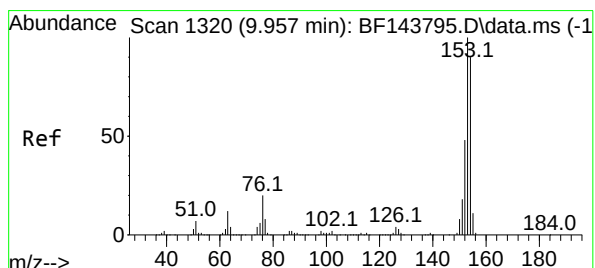
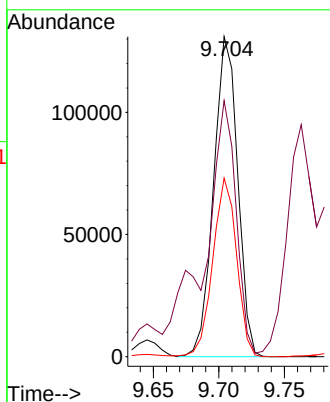
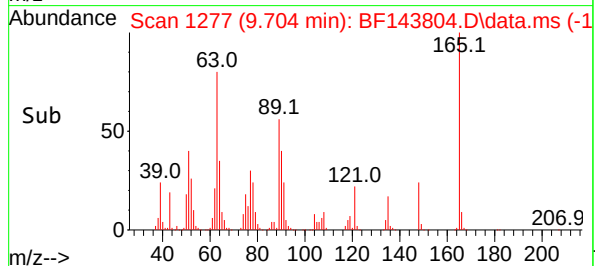
Instrument :  
BNA\_F  
ClientSampleId :  
PB169827BS



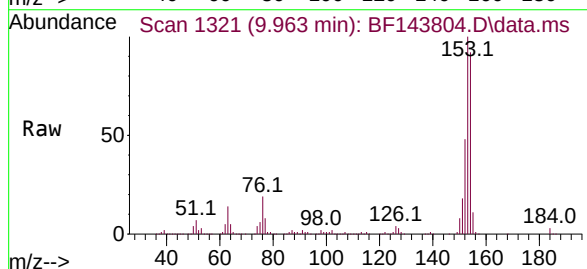
Tgt Ion:165 Resp: 167208  
Ion Ratio Lower Upper  
165 100  
63 80.0 62.6 94.0  
89 55.8 45.2 67.8

Manual Integrations  
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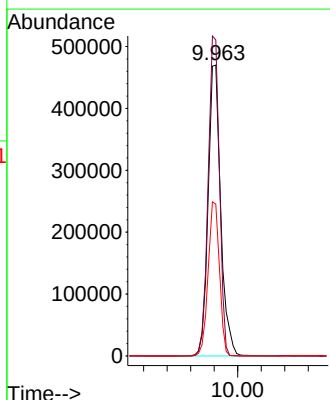
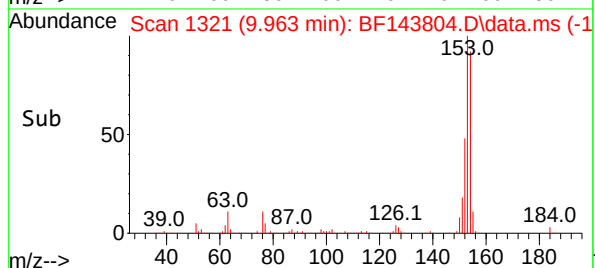
Reviewed By :Rahul Chavli 09/26/2025  
Supervised By :Jagrut Upadhyay 09/26/2025

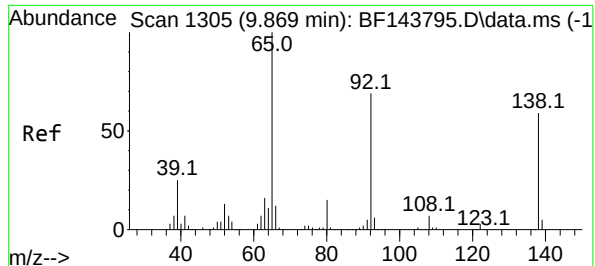


#52  
Acenaphthene  
Concen: 44.850 ng  
RT: 9.963 min Scan# 1321  
Delta R.T. -0.000 min  
Lab File: BF143804.D  
Acq: 25 Sep 2025 14:16



Tgt Ion:154 Resp: 698991  
Ion Ratio Lower Upper  
154 100  
153 108.7 88.7 133.1  
152 52.2 42.7 64.1





#53

3-Nitroaniline

Concen: 35.898 ng

RT: 9.875 min Scan# 1306

Delta R.T. -0.000 min

Lab File: BF143804.D

Acq: 25 Sep 2025 14:16

Instrument :

BNA\_F

ClientSampleId :

PB169827BS

Tgt Ion:138 Resp: 128649

Ion Ratio Lower Upper

138 100

108 10.9 9.9 14.9

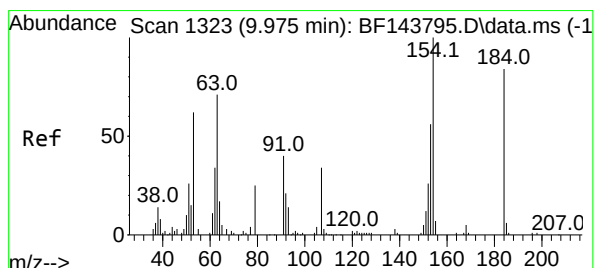
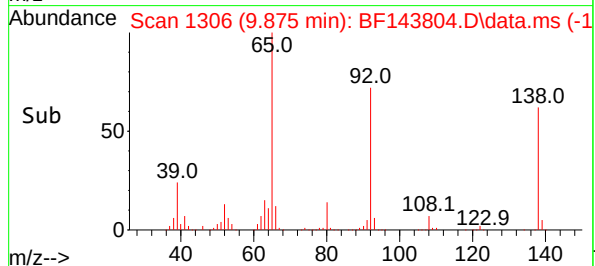
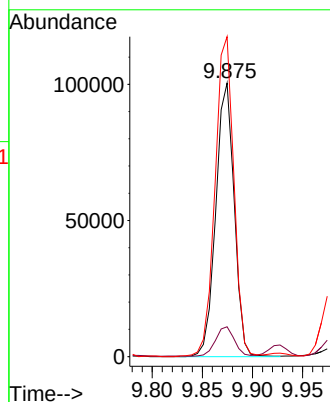
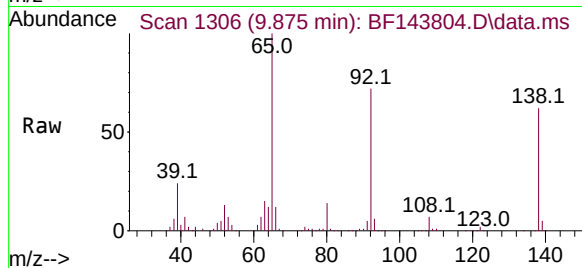
92 117.0 93.5 140.3

Manual Integrations

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Reviewed By :Rahul Chavli 09/26/2025

Supervised By :Jagrut Upadhyay 09/26/2025



#54

2,4-Dinitrophenol

Concen: 90.006 ng

RT: 9.980 min Scan# 1324

Delta R.T. 0.005 min

Lab File: BF143804.D

Acq: 25 Sep 2025 14:16

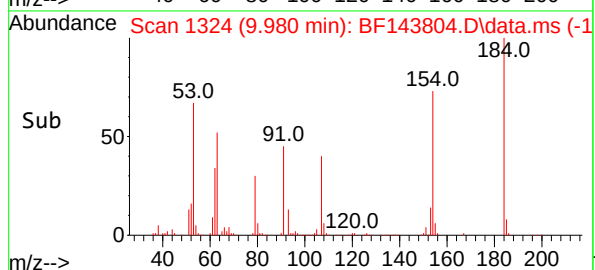
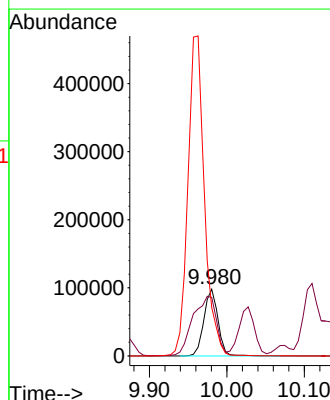
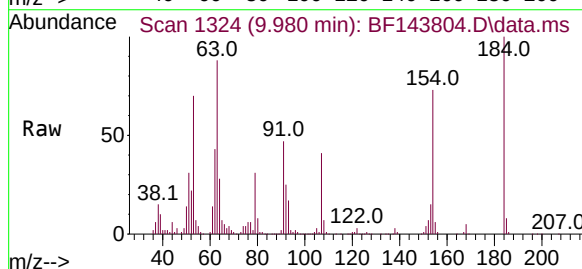
Tgt Ion:184 Resp: 123010

Ion Ratio Lower Upper

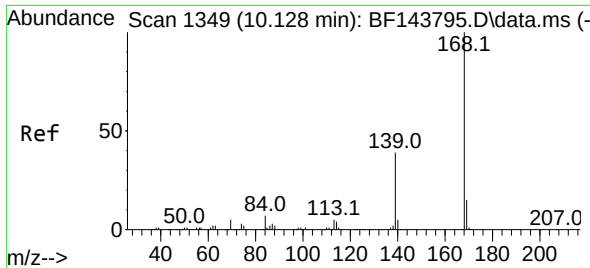
184 100

63 87.7 84.6 127.0

154 72.5 199.3 298.9#

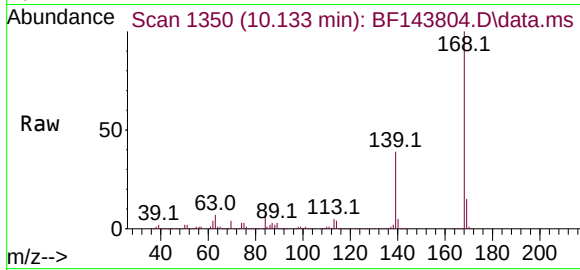






#55  
Dibenzofuran  
Concen: 43.014 ng  
RT: 10.133 min Scan# 1349  
Delta R.T. -0.000 min  
Lab File: BF143804.D  
Acq: 25 Sep 2025 14:16

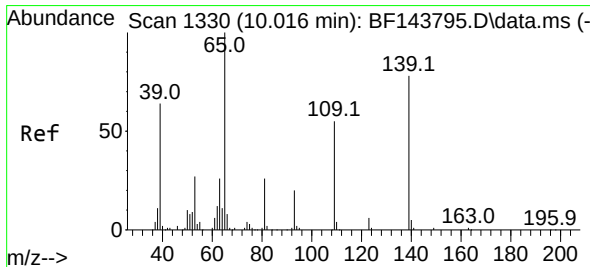
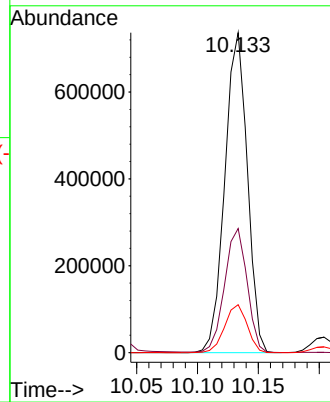
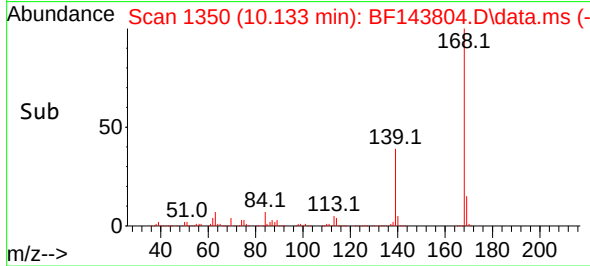
Instrument :  
BNA\_F  
ClientSampleId :  
PB169827BS



Tgt Ion:168 Resp: 94795  
Ion Ratio Lower Upper  
168 100  
139 38.8 31.0 46.6  
169 15.0 11.9 17.9

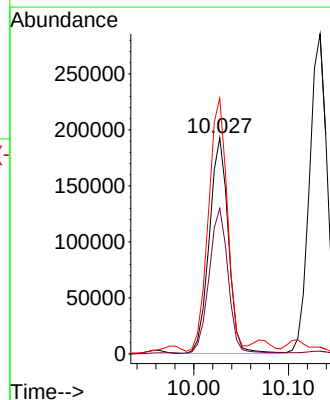
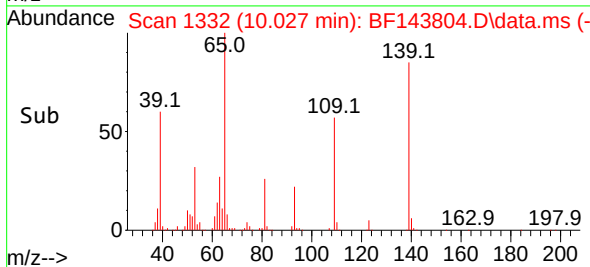
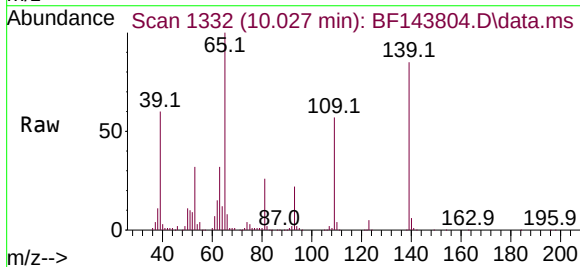
Manual Integrations  
APPROVED

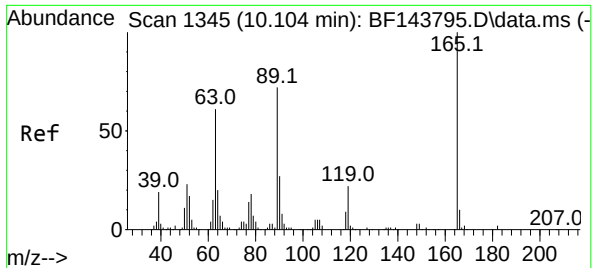
Reviewed By :Rahul Chavli 09/26/2025  
Supervised By :Jagrut Upadhyay 09/26/2025



#56  
4-Nitrophenol  
Concen: 93.169 ng  
RT: 10.027 min Scan# 1332  
Delta R.T. 0.006 min  
Lab File: BF143804.D  
Acq: 25 Sep 2025 14:16

Tgt Ion:139 Resp: 269066  
Ion Ratio Lower Upper  
139 100  
109 67.3 50.2 90.2  
65 118.3 109.2 149.2





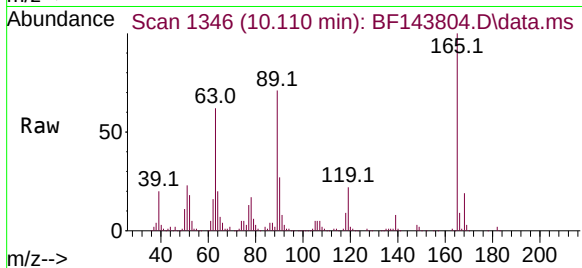
#57  
2,4-Dinitrotoluene  
Concen: 48.920 ng  
RT: 10.110 min Scan# 1345  
Delta R.T. -0.000 min  
Lab File: BF143804.D  
Acq: 25 Sep 2025 14:16

Instrument :

BNA\_F

ClientSampleId :

PB169827BS

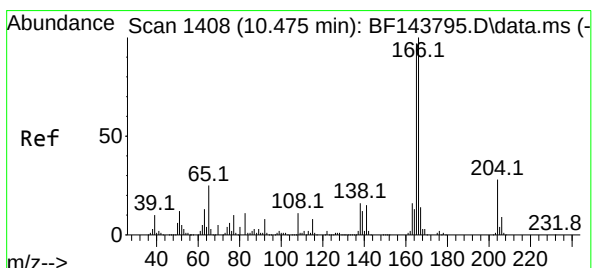
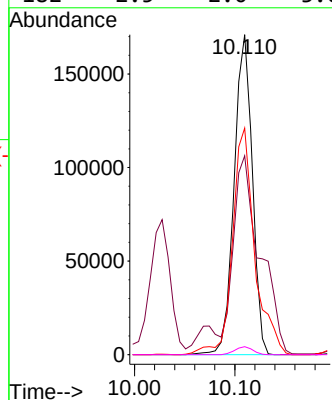
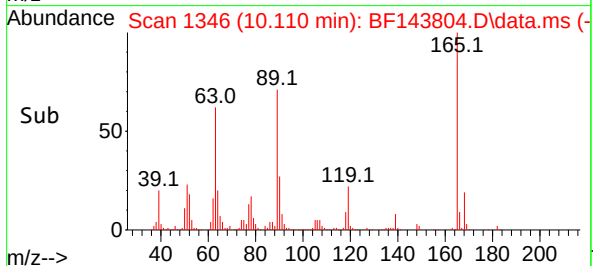


Tgt Ion:165 Resp: 214946  
Ion Ratio Lower Upper  
165 100  
63 62.1 48.9 73.3  
89 70.8 57.5 86.3  
182 2.5 2.0 3.0

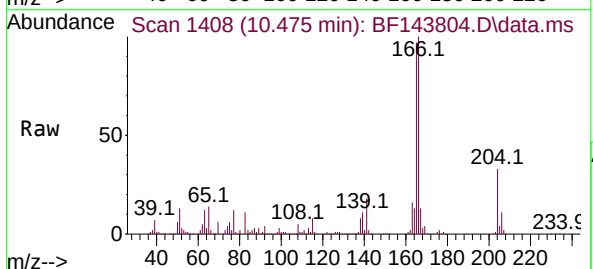
Manual Integrations

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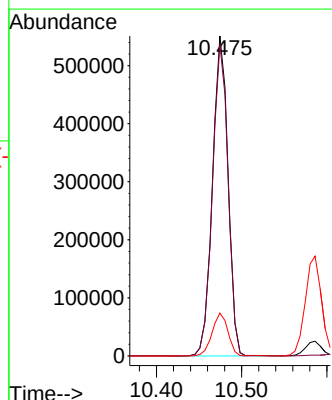
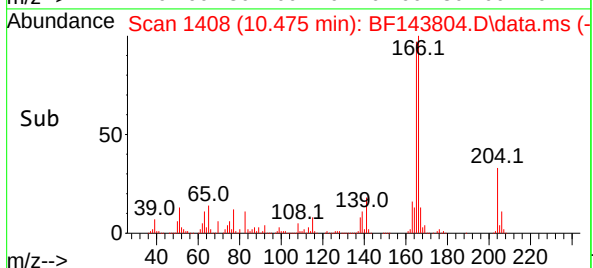
Reviewed By :Rahul Chavli 09/26/2025  
Supervised By :Jagrut Upadhyay 09/26/2025

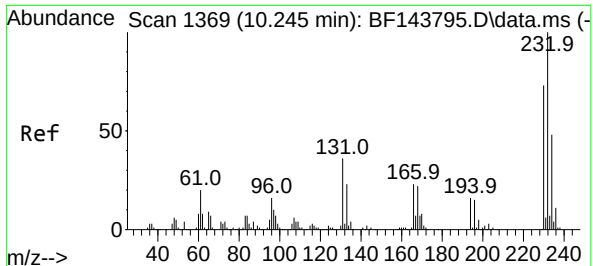


#58  
Fluorene  
Concen: 42.689 ng  
RT: 10.475 min Scan# 1408  
Delta R.T. -0.000 min  
Lab File: BF143804.D  
Acq: 25 Sep 2025 14:16



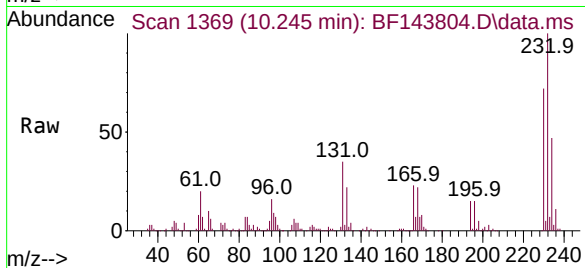
Tgt Ion:166 Resp: 699412  
Ion Ratio Lower Upper  
166 100  
165 97.3 78.0 117.0  
167 13.4 10.9 16.3





#59  
2,3,4,6-Tetrachlorophenol  
Concen: 52.578 ng  
RT: 10.245 min Scan# 1369  
Delta R.T. -0.000 min  
Lab File: BF143804.D  
Acq: 25 Sep 2025 14:16

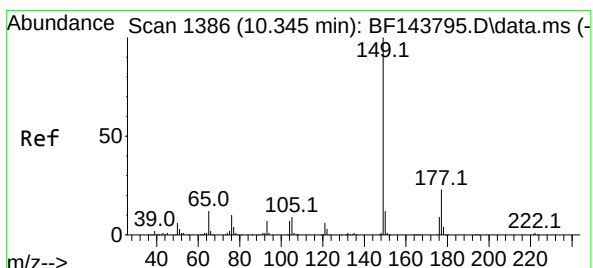
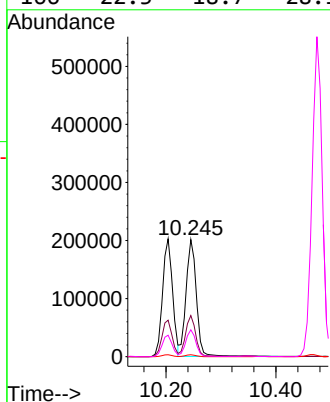
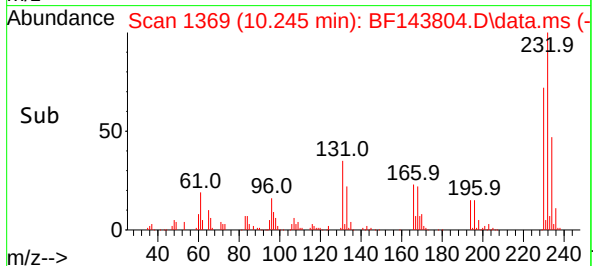
Instrument :  
BNA\_F  
ClientSampleId :  
PB169827BS



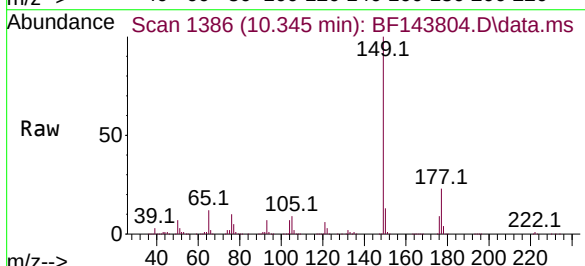
Tgt Ion:232 Resp: 262852  
Ion Ratio Lower Upper  
232 100  
131 34.6 29.4 44.2  
130 1.5 1.3 1.9  
166 22.3 18.7 28.1

Manual Integrations  
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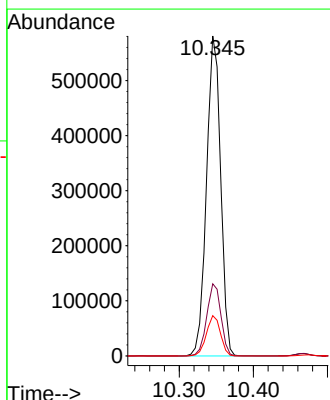
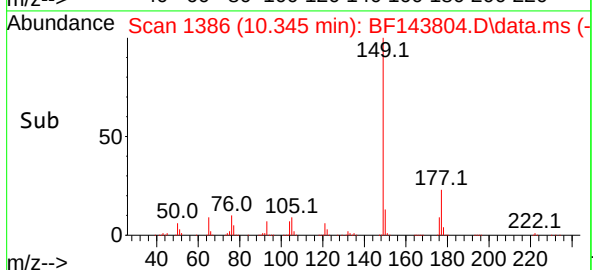
Reviewed By :Rahul Chavli 09/26/2025  
Supervised By :Jagrut Upadhyay 09/26/2025

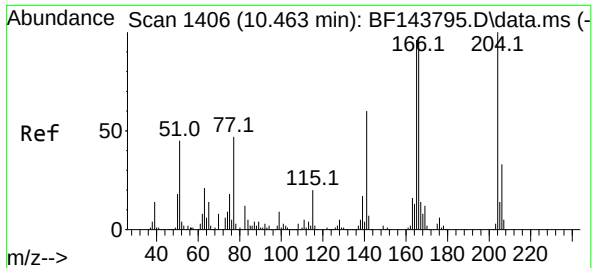


#60  
Diethylphthalate  
Concen: 45.548 ng  
RT: 10.345 min Scan# 1386  
Delta R.T. -0.000 min  
Lab File: BF143804.D  
Acq: 25 Sep 2025 14:16



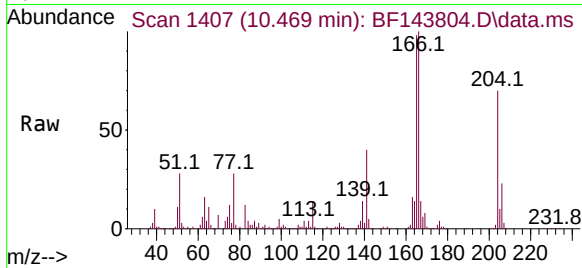
Tgt Ion:149 Resp: 767269  
Ion Ratio Lower Upper  
149 100  
177 22.5 18.1 27.1  
150 12.6 9.7 14.5





#61  
4-Chlorophenyl-phenylether  
Concen: 43.204 ng  
RT: 10.469 min Scan# 1406  
Delta R.T. -0.000 min  
Lab File: BF143804.D  
Acq: 25 Sep 2025 14:16

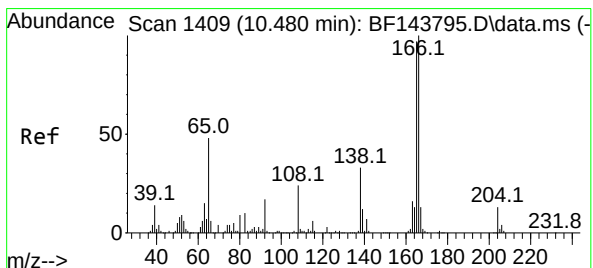
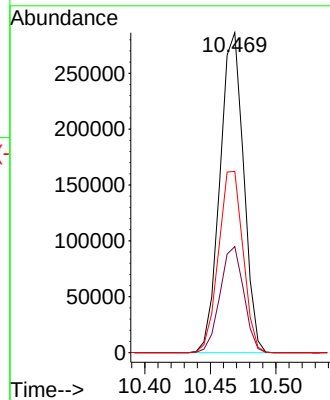
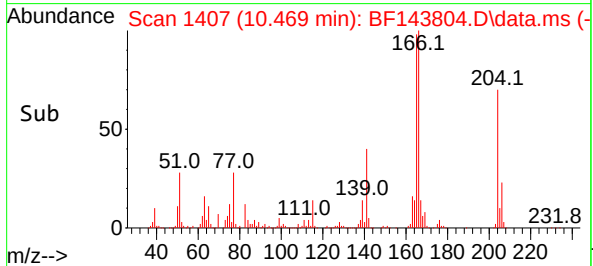
Instrument :  
BNA\_F  
ClientSampleId :  
PB169827BS



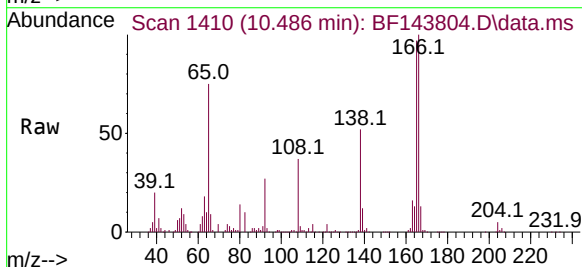
Tgt Ion:204 Resp: 360668  
Ion Ratio Lower Upper  
204 100  
206 33.1 26.7 40.1  
141 56.6 48.2 72.2

Manual Integrations  
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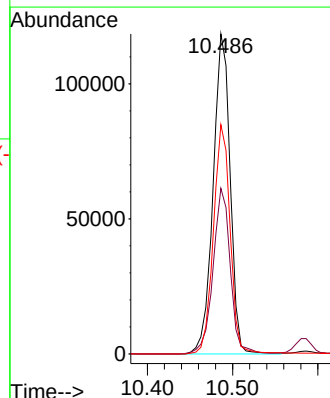
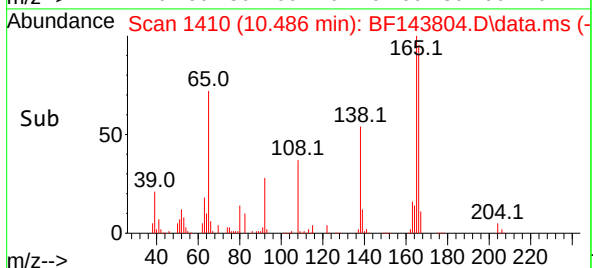
Reviewed By :Rahul Chavli 09/26/2025  
Supervised By :Jagrut Upadhyay 09/26/2025

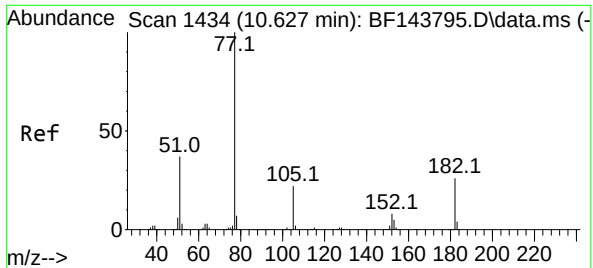


#62  
4-Nitroaniline  
Concen: 48.768 ng  
RT: 10.486 min Scan# 1410  
Delta R.T. -0.006 min  
Lab File: BF143804.D  
Acq: 25 Sep 2025 14:16



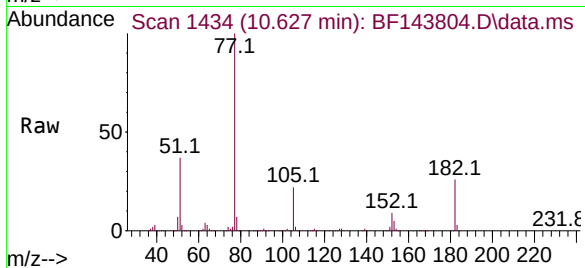
Tgt Ion:138 Resp: 164334  
Ion Ratio Lower Upper  
138 100  
92 51.7 31.5 71.5  
108 71.6 51.9 91.9





#63  
Azobenzene  
Concen: 44.894 ng  
RT: 10.627 min Scan# 1434  
Delta R.T. -0.000 min  
Lab File: BF143804.D  
Acq: 25 Sep 2025 14:16

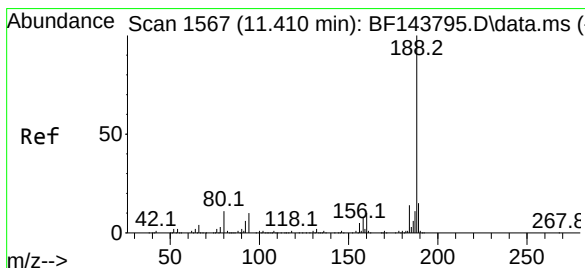
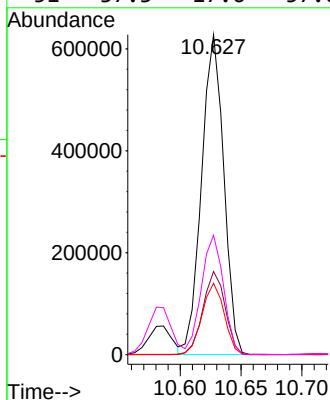
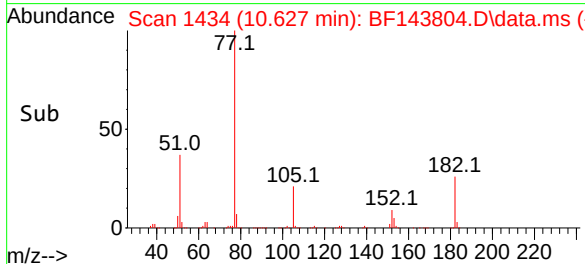
Instrument :  
BNA\_F  
ClientSampleId :  
PB169827BS



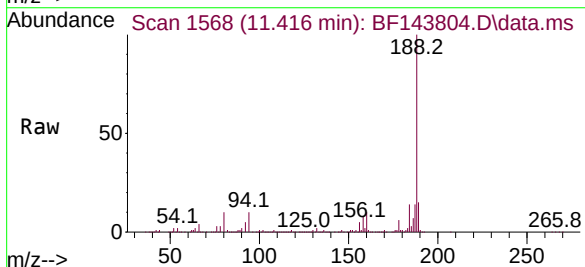
Tgt Ion: 77 Resp: 797009  
Ion Ratio Lower Upper  
77 100  
182 26.0 5.9 45.9  
105 22.3 2.3 42.3  
51 37.3 17.6 57.6

Manual Integrations  
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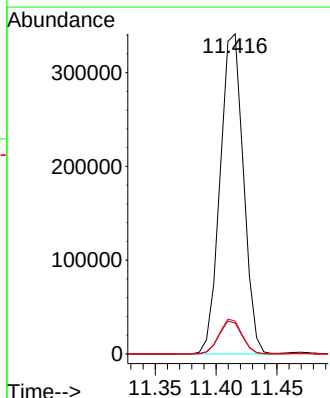
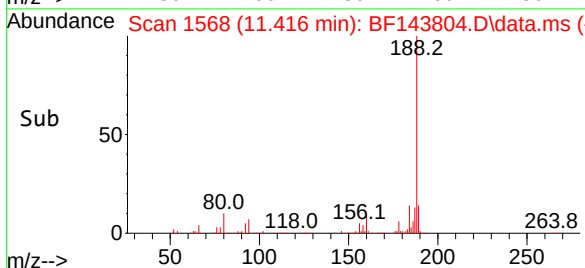
Reviewed By :Rahul Chavli 09/26/2025  
Supervised By :Jagrut Upadhyay 09/26/2025

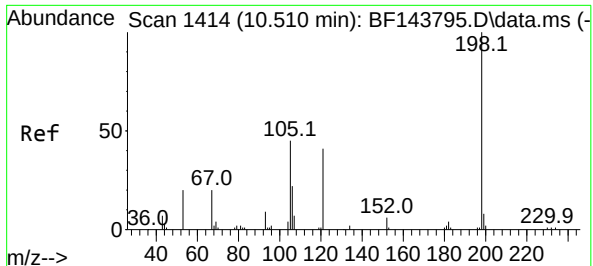


#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.416 min Scan# 1568  
Delta R.T. -0.000 min  
Lab File: BF143804.D  
Acq: 25 Sep 2025 14:16



Tgt Ion:188 Resp: 455131  
Ion Ratio Lower Upper  
188 100  
94 9.6 8.2 12.2  
80 10.3 8.6 12.8





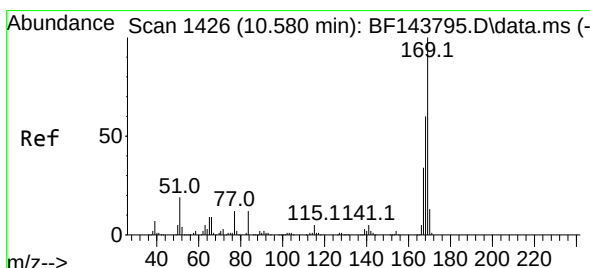
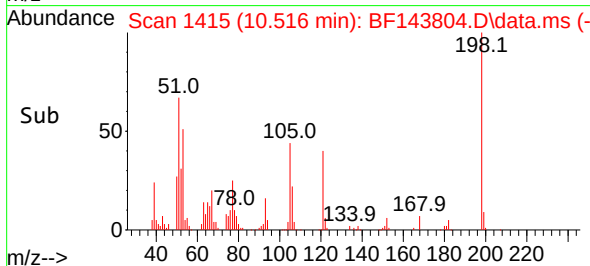
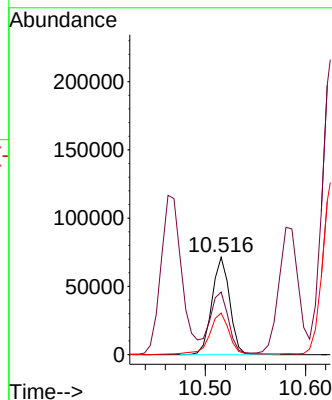
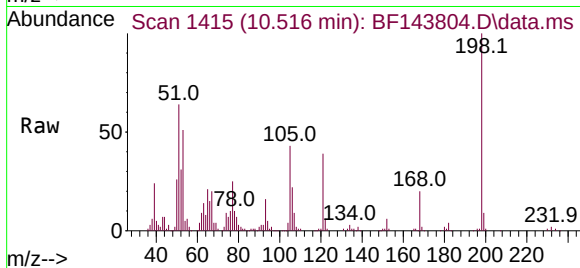
#65  
4,6-Dinitro-2-methylphenol  
Concen: 51.358 ng  
RT: 10.516 min Scan# 1415  
Delta R.T. -0.000 min  
Lab File: BF143804.D  
Acq: 25 Sep 2025 14:16

Instrument :  
BNA\_F  
ClientSampleId :  
PB169827BS

Tgt Ion:198 Resp: 87321  
Ion Ratio Lower Upper  
198 100  
51 64.3 52.0 92.0  
105 42.7 27.5 67.5

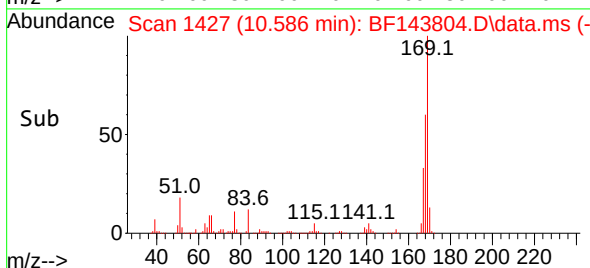
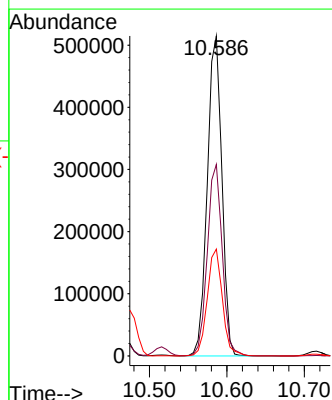
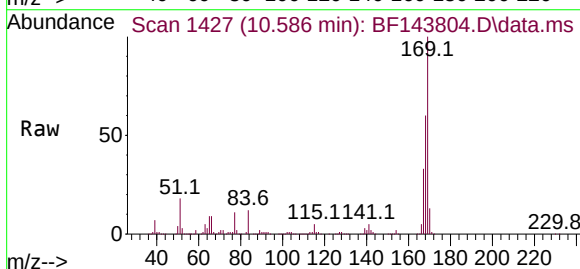
Manual Integrations  
APPROVED

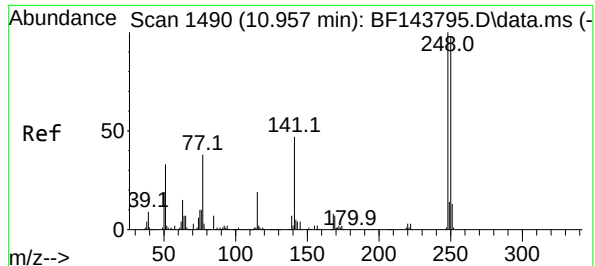
Reviewed By :Rahul Chavli 09/26/2025  
Supervised By :Jagrut Upadhyay 09/26/2025



#66  
n-Nitrosodiphenylamine  
Concen: 44.861 ng  
RT: 10.586 min Scan# 1427  
Delta R.T. -0.000 min  
Lab File: BF143804.D  
Acq: 25 Sep 2025 14:16

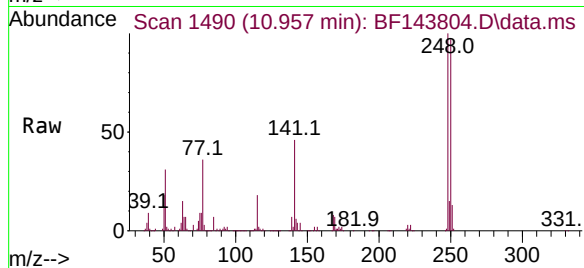
Tgt Ion:169 Resp: 671478  
Ion Ratio Lower Upper  
169 100  
168 59.8 47.9 71.9  
167 33.4 27.0 40.6





#67  
4-Bromophenyl-phenylether  
Concen: 46.988 ng  
RT: 10.957 min Scan# 1490  
Delta R.T. -0.000 min  
Lab File: BF143804.D  
Acq: 25 Sep 2025 14:16

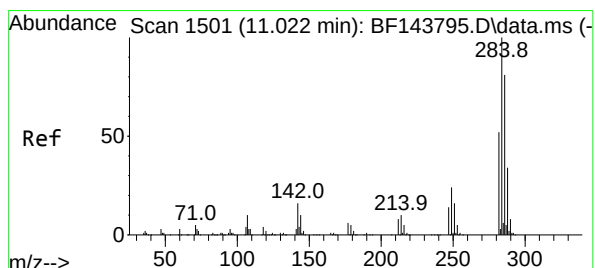
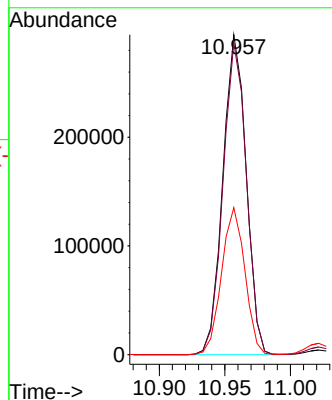
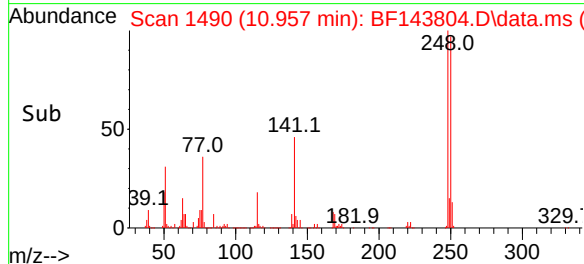
Instrument :  
BNA\_F  
ClientSampleId :  
PB169827BS



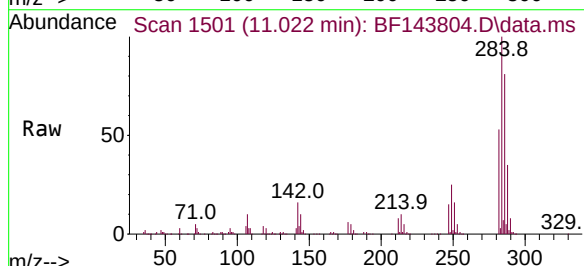
Tgt Ion:248 Resp: 36444  
Ion Ratio Lower Upper  
248 100  
250 97.4 78.7 118.1  
141 45.9 37.9 56.9

Manual Integrations  
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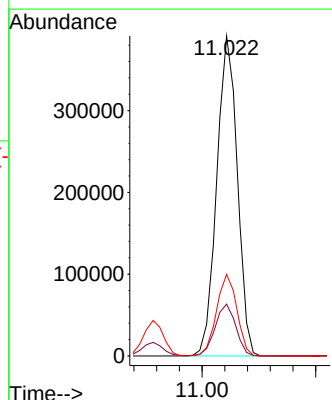
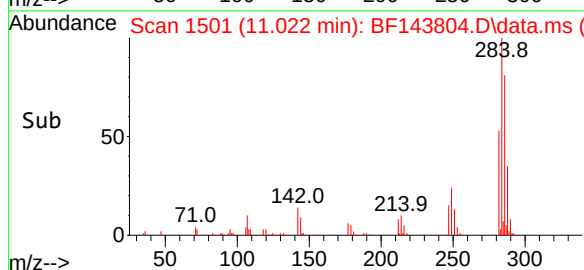
Reviewed By :Rahul Chavli 09/26/2025  
Supervised By :Jagrut Upadhyay 09/26/2025

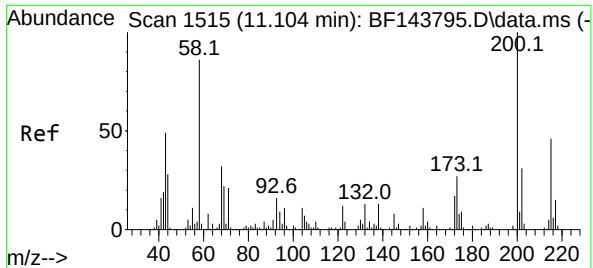


#68  
Hexachlorobenzene  
Concen: 46.029 ng  
RT: 11.022 min Scan# 1501  
Delta R.T. -0.000 min  
Lab File: BF143804.D  
Acq: 25 Sep 2025 14:16



Tgt Ion:284 Resp: 491991  
Ion Ratio Lower Upper  
284 100  
142 16.2 13.1 19.7  
249 25.5 19.5 29.3





#69

Atrazine

Concen: 46.880 ng

RT: 11.110 min Scan# 1515

Delta R.T. -0.000 min

Lab File: BF143804.D

Acq: 25 Sep 2025 14:16

Instrument :

BNA\_F

ClientSampleId :

PB169827BS

Tgt Ion:200 Resp: 203198

Ion Ratio Lower Upper

200 100

173 26.7 7.2 47.2

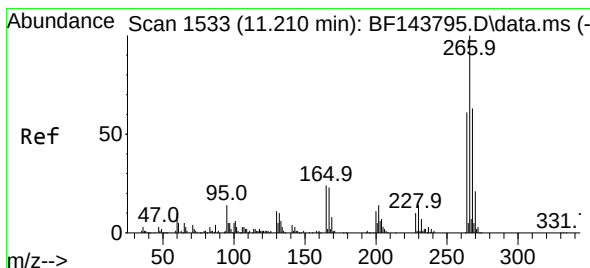
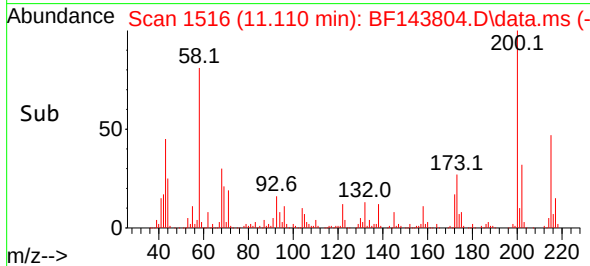
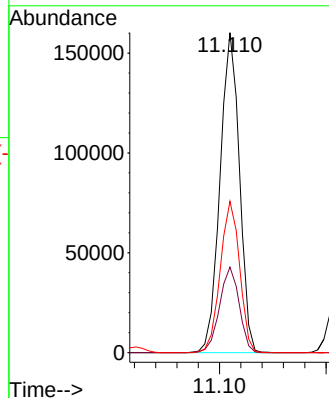
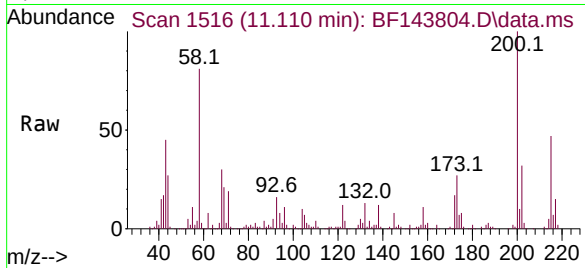
215 47.3 26.0 66.0

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/26/2025

Supervised By :Jagrut Upadhyay 09/26/2025



#70

Pentachlorophenol

Concen: 97.219 ng

RT: 11.216 min Scan# 1534

Delta R.T. -0.000 min

Lab File: BF143804.D

Acq: 25 Sep 2025 14:16

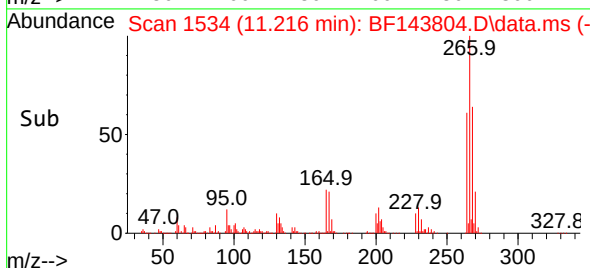
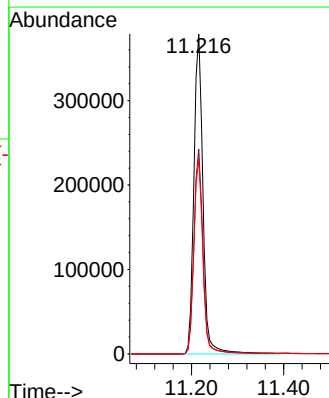
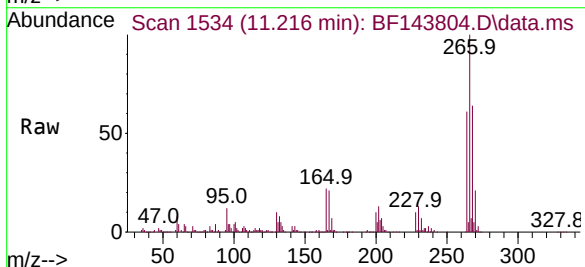
Tgt Ion:266 Resp: 517265

Ion Ratio Lower Upper

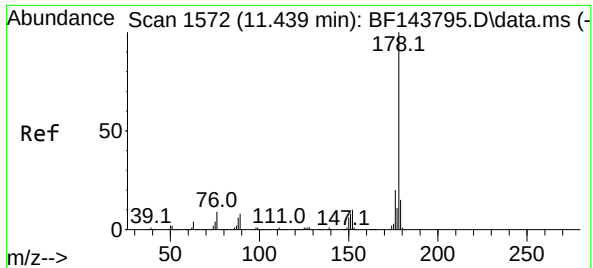
266 100

268 64.0 50.5 75.7

264 61.0 48.8 73.2







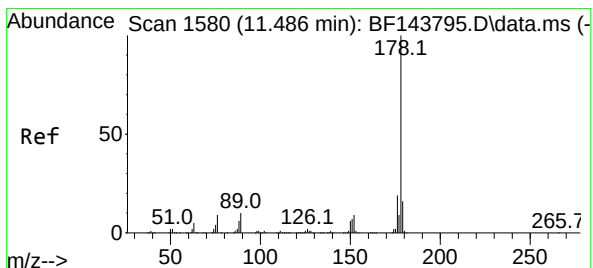
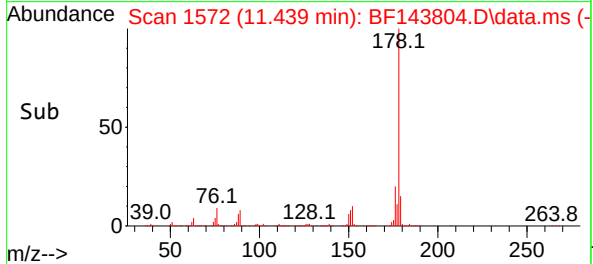
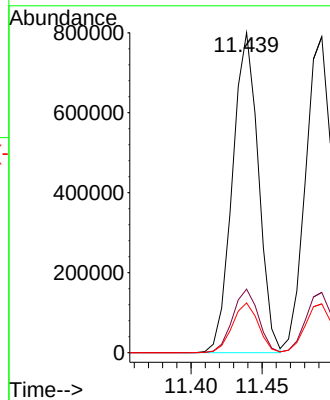
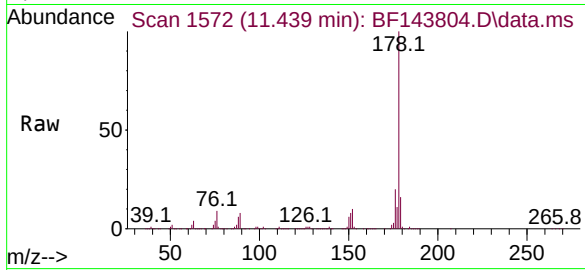
#71  
Phenanthrene  
Concen: 43.443 ng  
RT: 11.439 min Scan# 1572  
Delta R.T. -0.000 min  
Lab File: BF143804.D  
Acq: 25 Sep 2025 14:16

Instrument :  
BNA\_F  
ClientSampleId :  
PB169827BS

Tgt Ion:178 Resp: 1015112  
Ion Ratio Lower Upper  
178 100  
176 19.8 15.6 23.4  
179 15.5 12.2 18.4

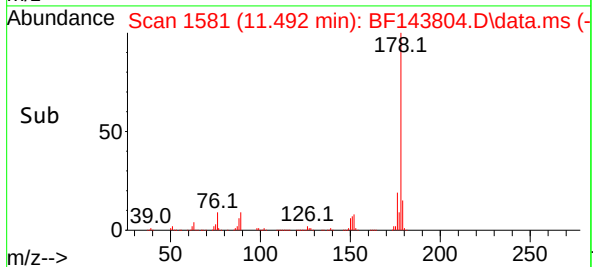
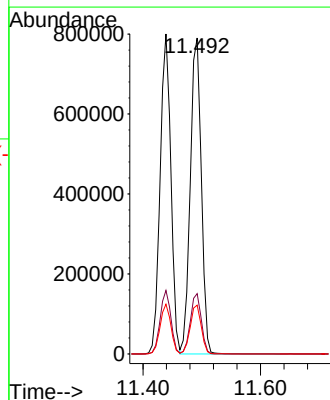
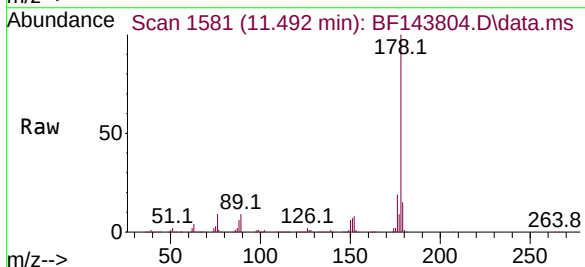
Manual Integrations  
APPROVED

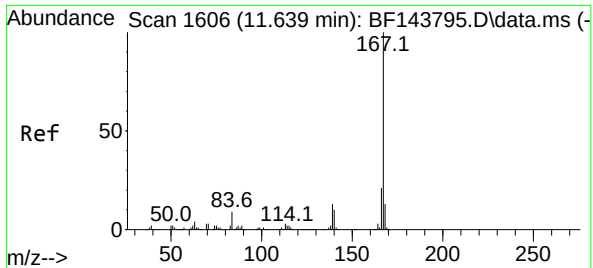
Reviewed By :Rahul Chavli 09/26/2025  
Supervised By :Jagrut Upadhyay 09/26/2025



#72  
Anthracene  
Concen: 43.931 ng  
RT: 11.492 min Scan# 1581  
Delta R.T. -0.000 min  
Lab File: BF143804.D  
Acq: 25 Sep 2025 14:16

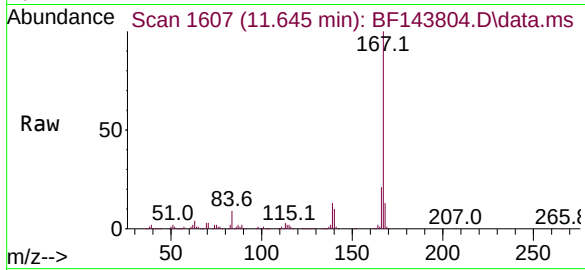
Tgt Ion:178 Resp: 1029676  
Ion Ratio Lower Upper  
178 100  
176 19.1 15.3 22.9  
179 15.4 12.8 19.2





#73  
 Carbazole  
 Concen: 43.666 ng  
 RT: 11.645 min Scan# 1607  
 Delta R.T. -0.000 min  
 Lab File: BF143804.D  
 Acq: 25 Sep 2025 14:16

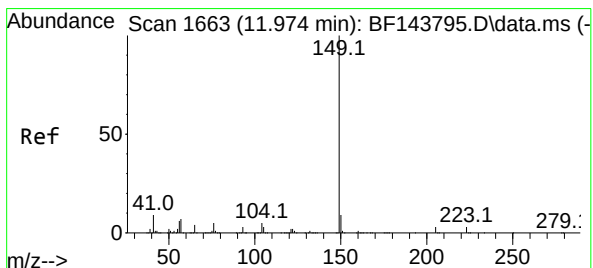
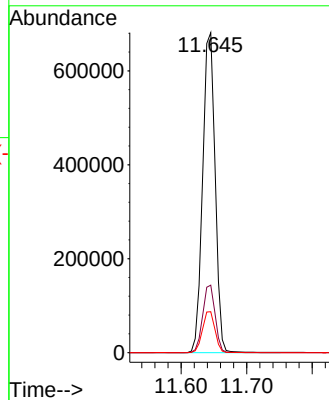
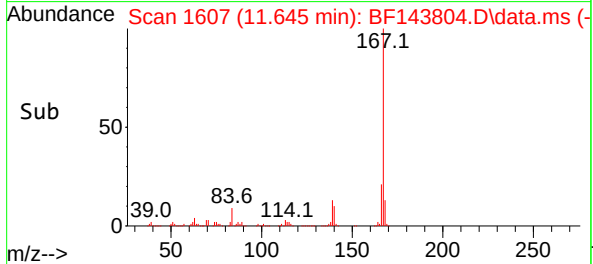
Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB169827BS



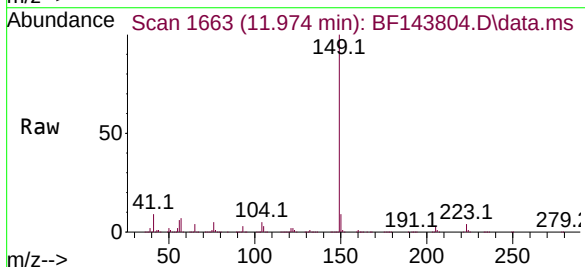
Tgt Ion:167 Resp: 894842  
 Ion Ratio Lower Upper  
 167 100  
 166 21.1 17.0 25.4  
 139 12.8 10.6 15.8

Manual Integrations  
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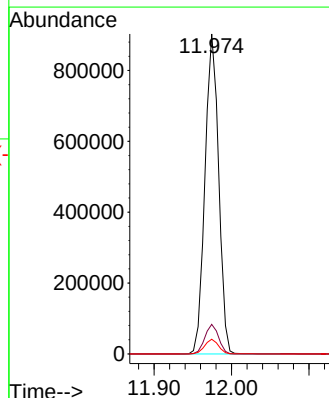
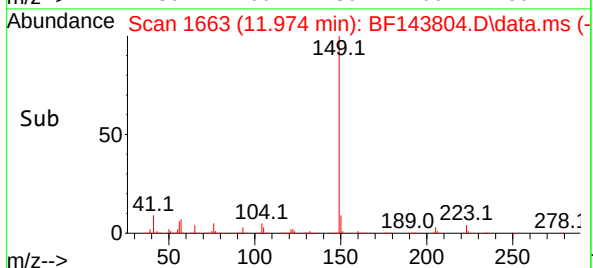
Reviewed By :Rahul Chavli 09/26/2025  
 Supervised By :Jagrut Upadhyay 09/26/2025

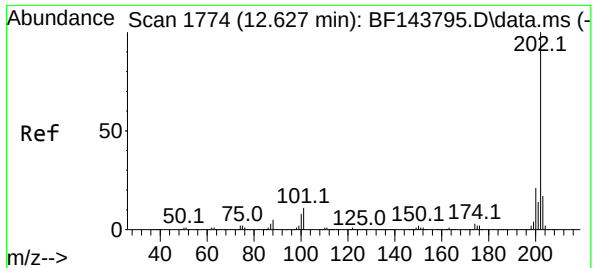


#74  
 Di-n-butylphthalate  
 Concen: 46.909 ng  
 RT: 11.974 min Scan# 1663  
 Delta R.T. -0.000 min  
 Lab File: BF143804.D  
 Acq: 25 Sep 2025 14:16



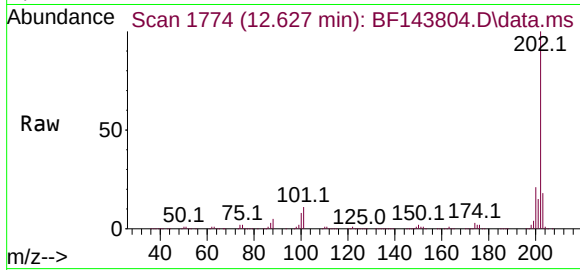
Tgt Ion:149 Resp: 1105559  
 Ion Ratio Lower Upper  
 149 100  
 150 9.2 7.3 10.9  
 104 4.6 3.6 5.4





#75  
Fluoranthene  
Concen: 43.497 ng  
RT: 12.627 min Scan# 1774  
Delta R.T. -0.000 min  
Lab File: BF143804.D  
Acq: 25 Sep 2025 14:16

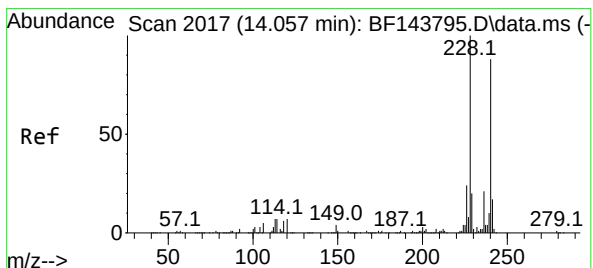
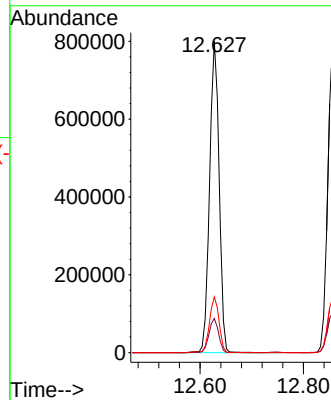
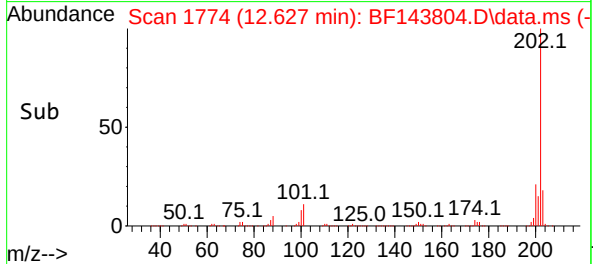
Instrument :  
BNA\_F  
ClientSampleId :  
PB169827BS



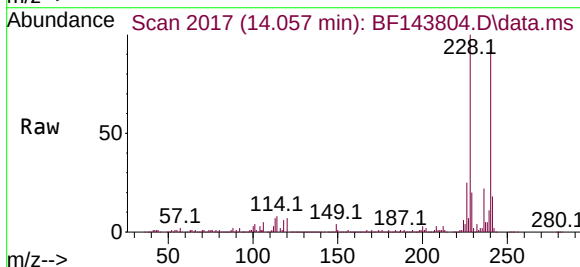
Tgt Ion:202 Resp: 1022236  
Ion Ratio Lower Upper  
202 100  
101 11.0 0.0 31.1  
203 17.9 0.0 37.4

Manual Integrations  
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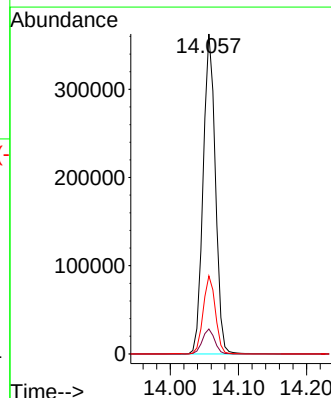
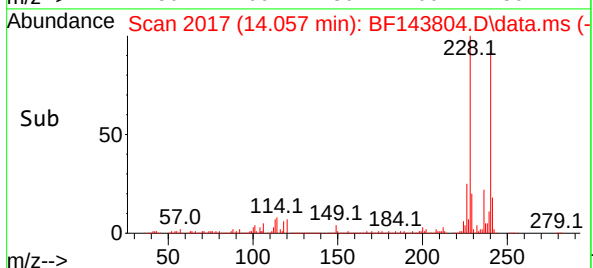
Reviewed By :Rahul Chavli 09/26/2025  
Supervised By :Jagrut Upadhyay 09/26/2025

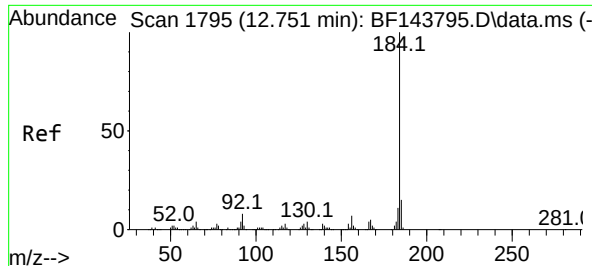


#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.057 min Scan# 1717  
Delta R.T. -0.006 min  
Lab File: BF143804.D  
Acq: 25 Sep 2025 14:16



Tgt Ion:240 Resp: 452412  
Ion Ratio Lower Upper  
240 100  
120 7.8 6.2 9.4  
236 24.4 19.4 29.2





#77

Benzidine

Concen: 27.143 ng

RT: 12.751 min Scan# 1795

Delta R.T. -0.000 min

Lab File: BF143804.D

Acq: 25 Sep 2025 14:16

Instrument :

BNA\_F

ClientSampleId :

PB169827BS

Tgt Ion:184 Resp: 299235

Ion Ratio Lower Upper

184 100

185 14.9 11.6 17.4

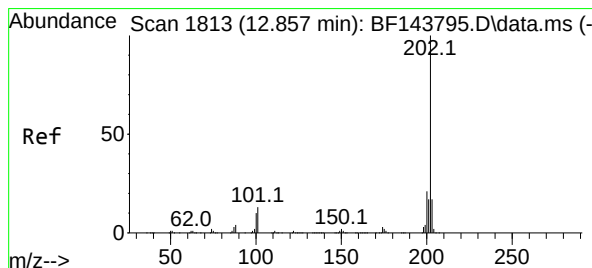
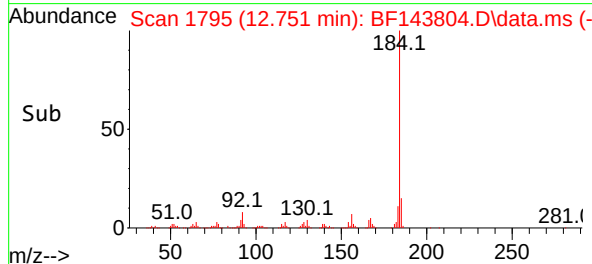
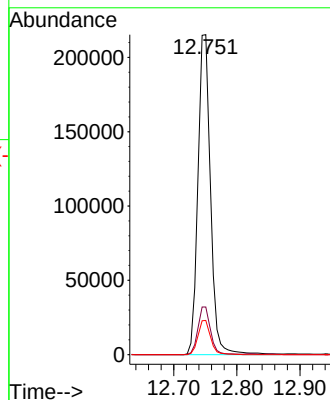
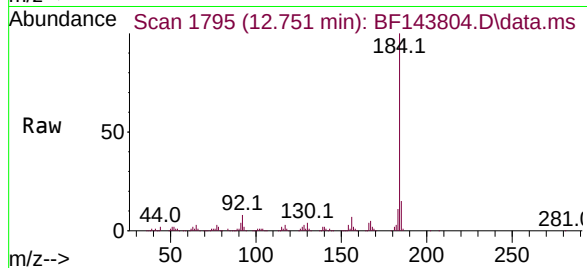
183 10.7 8.6 13.0

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/26/2025

Supervised By :Jagrut Upadhyay 09/26/2025



#78

Pyrene

Concen: 47.181 ng

RT: 12.857 min Scan# 1813

Delta R.T. -0.000 min

Lab File: BF143804.D

Acq: 25 Sep 2025 14:16

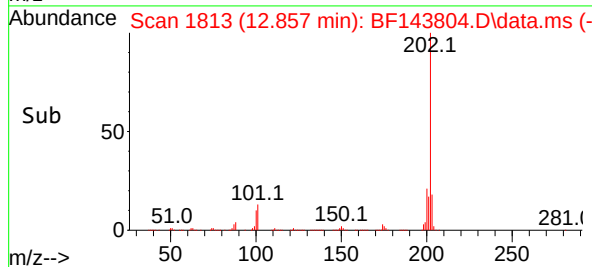
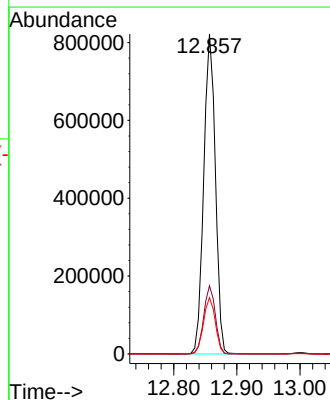
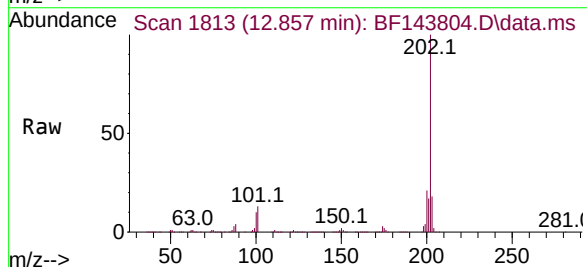
Tgt Ion:202 Resp: 1049427

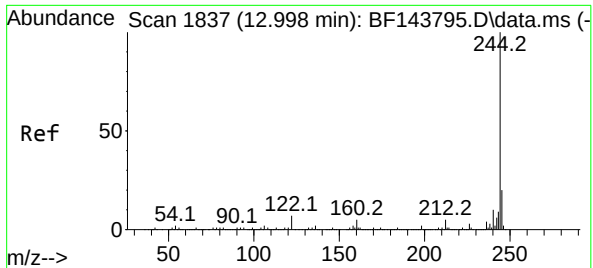
Ion Ratio Lower Upper

202 100

200 21.3 17.0 25.4

203 17.6 13.9 20.9





#79

Terphenyl-d14

Concen: 92.433 ng

RT: 12.998 min Scan# 1837

Delta R.T. -0.006 min

Lab File: BF143804.D

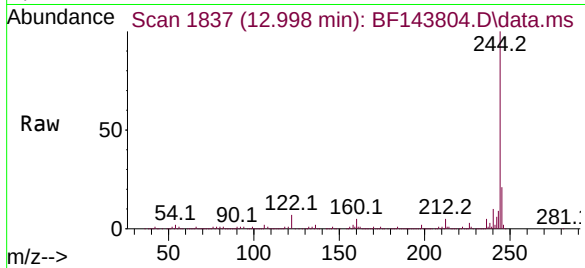
Acq: 25 Sep 2025 14:16

Instrument :

BNA\_F

ClientSampleId :

PB169827BS



Tgt Ion:244 Resp: 2056205

Ion Ratio Lower Upper

244 100

212 4.9 3.9 5.9

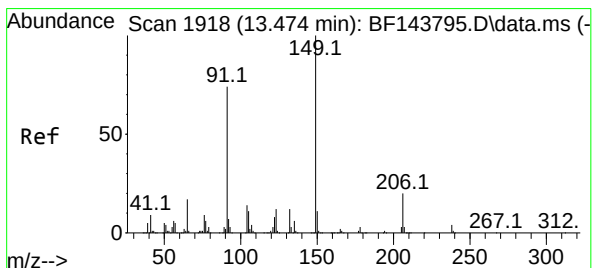
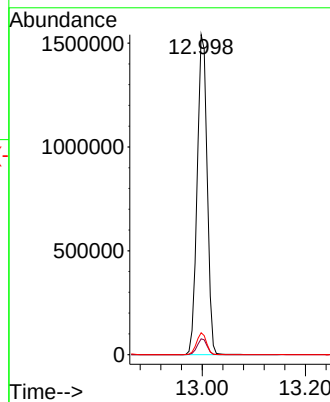
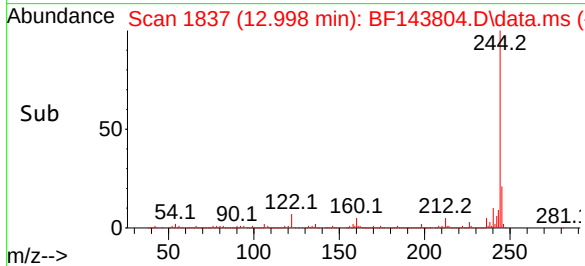
122 6.9 5.6 8.4

Manual Integrations

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Reviewed By :Rahul Chavli 09/26/2025

Supervised By :Jagrut Upadhyay 09/26/2025



#80

Butylbenzylphthalate

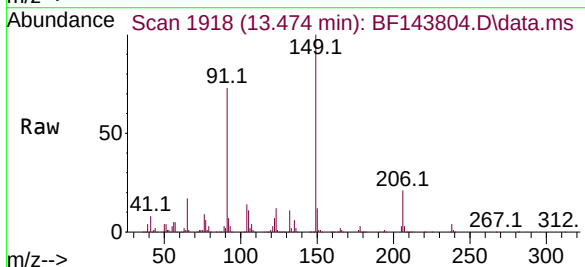
Concen: 52.890 ng

RT: 13.474 min Scan# 1918

Delta R.T. -0.006 min

Lab File: BF143804.D

Acq: 25 Sep 2025 14:16



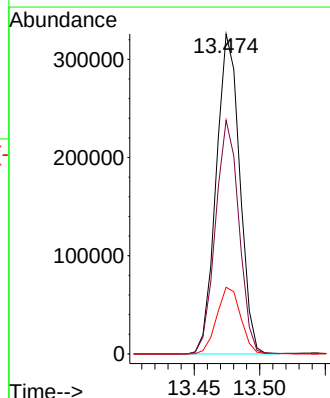
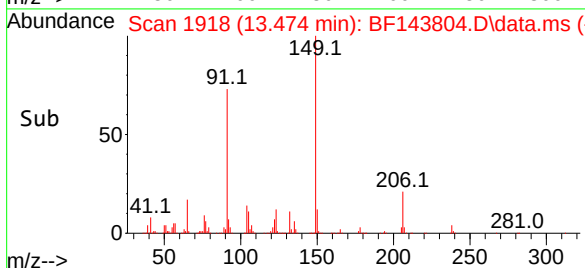
Tgt Ion:149 Resp: 407004

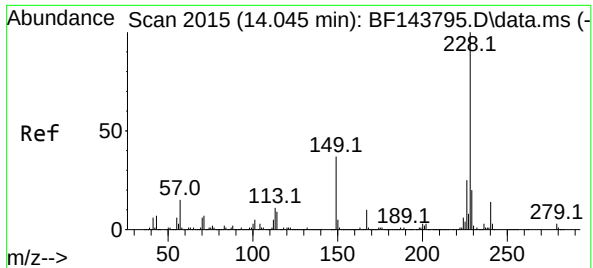
Ion Ratio Lower Upper

149 100

91 73.0 59.5 89.3

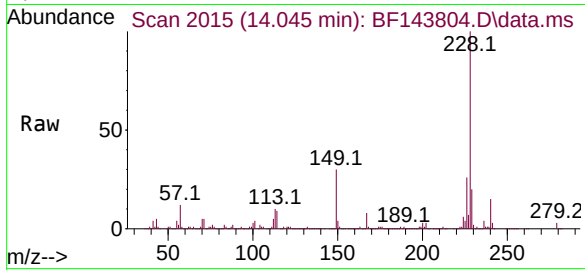
206 20.8 16.1 24.1





#81  
Benzo(a)anthracene  
Concen: 43.134 ng  
RT: 14.045 min Scan# 2015  
Delta R.T. -0.006 min  
Lab File: BF143804.D  
Acq: 25 Sep 2025 14:16

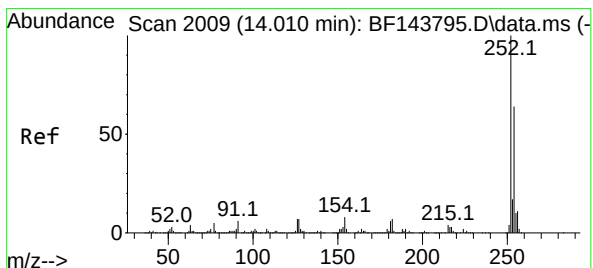
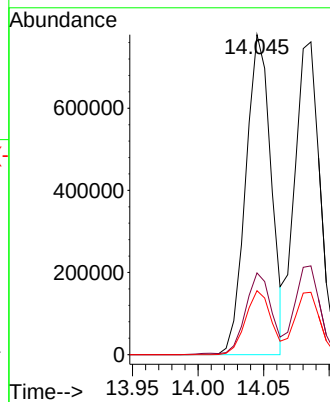
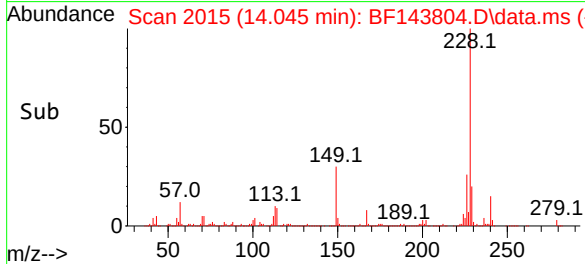
Instrument :  
BNA\_F  
ClientSampleId :  
PB169827BS



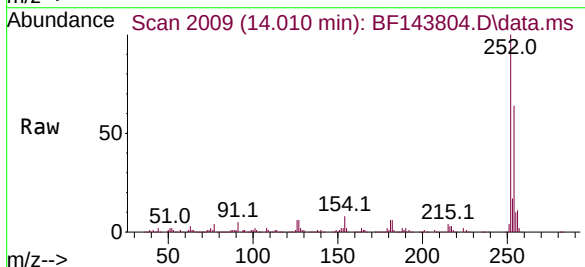
Tgt Ion:228 Resp: 104835  
Ion Ratio Lower Upper  
228 100  
226 25.5 20.2 30.2  
229 20.0 16.1 24.1

Manual Integrations  
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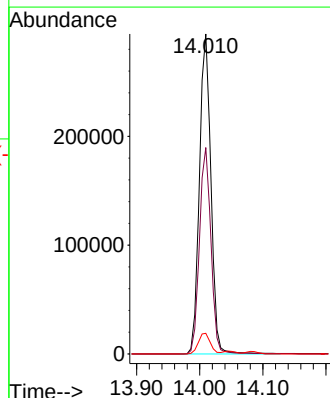
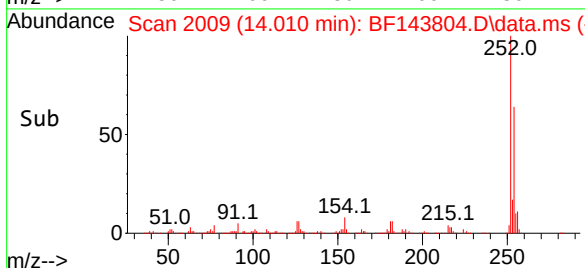
Reviewed By :Rahul Chavli 09/26/2025  
Supervised By :Jagrut Upadhyay 09/26/2025

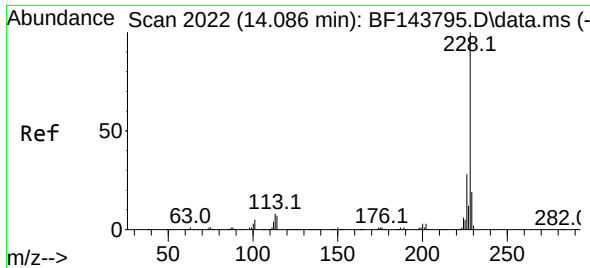


#82  
3,3'-Dichlorobenzidine  
Concen: 35.360 ng  
RT: 14.010 min Scan# 2009  
Delta R.T. -0.000 min  
Lab File: BF143804.D  
Acq: 25 Sep 2025 14:16



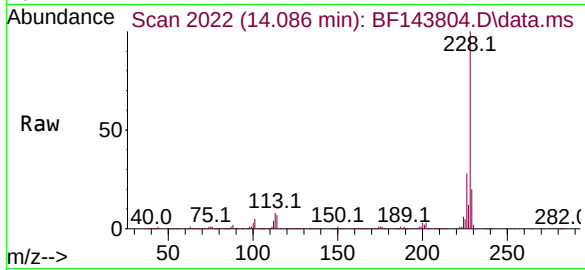
Tgt Ion:252 Resp: 372315  
Ion Ratio Lower Upper  
252 100  
254 64.5 51.5 77.3  
126 6.4 5.4 8.2





#83  
Chrysene  
Concen: 46.164 ng  
RT: 14.086 min Scan# 2013  
Delta R.T. -0.000 min  
Lab File: BF143804.D  
Acq: 25 Sep 2025 14:16

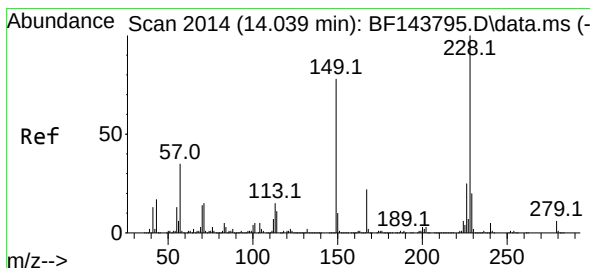
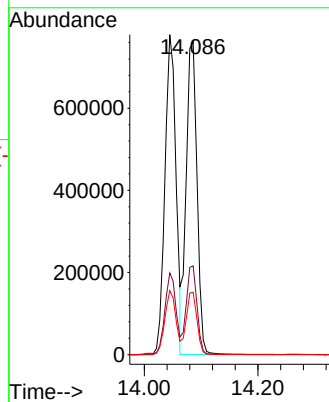
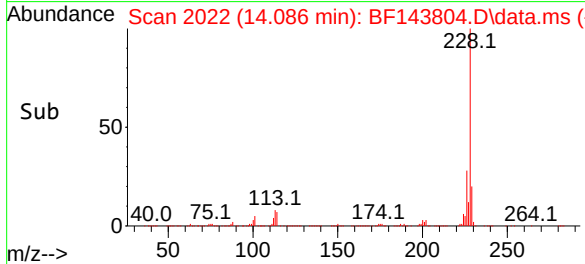
Instrument :  
BNA\_F  
ClientSampleId :  
PB169827BS



Tgt Ion:228 Resp: 1015236  
Ion Ratio Lower Upper  
228 100  
226 28.4 22.6 33.8  
229 19.9 15.6 23.4

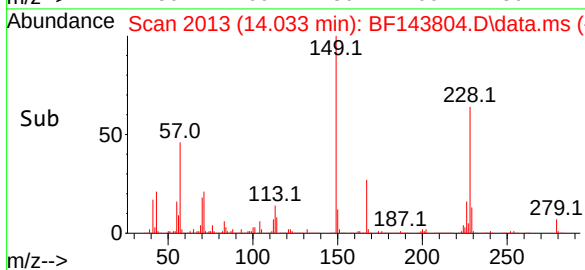
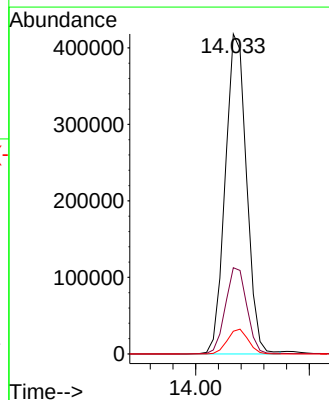
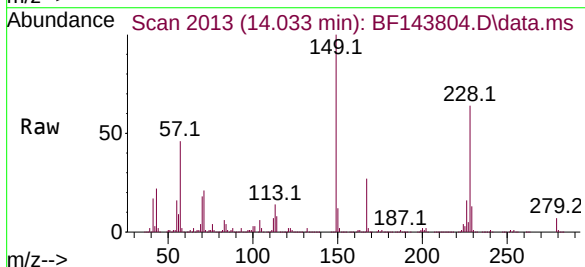
Manual Integrations  
APPROVED

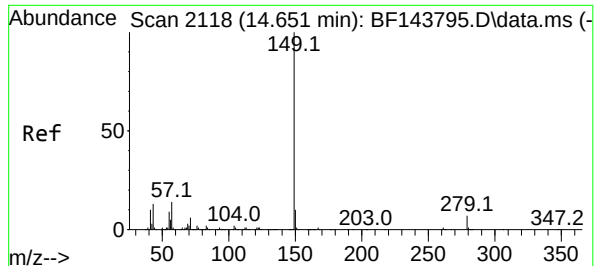
Reviewed By :Rahul Chavli 09/26/2025  
Supervised By :Jagrut Upadhyay 09/26/2025



#84  
Bis(2-ethylhexyl)phthalate  
Concen: 48.147 ng  
RT: 14.033 min Scan# 2013  
Delta R.T. -0.006 min  
Lab File: BF143804.D  
Acq: 25 Sep 2025 14:16

Tgt Ion:149 Resp: 543078  
Ion Ratio Lower Upper  
149 100  
167 26.9 22.2 33.2  
279 7.1 6.0 9.0





#85

Di-n-octyl phthalate

Concen: 46.790 ng

RT: 14.651 min Scan# 2118

Delta R.T. -0.006 min

Lab File: BF143804.D

Acq: 25 Sep 2025 14:16

Instrument :

BNA\_F

ClientSampleId :

PB169827BS

Tgt Ion:149 Resp: 957348

Ion Ratio Lower Upper

149 100

167 1.6 1.1 1.7

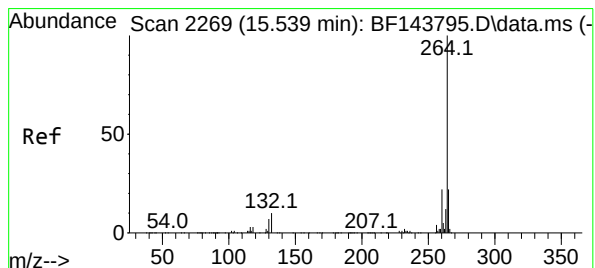
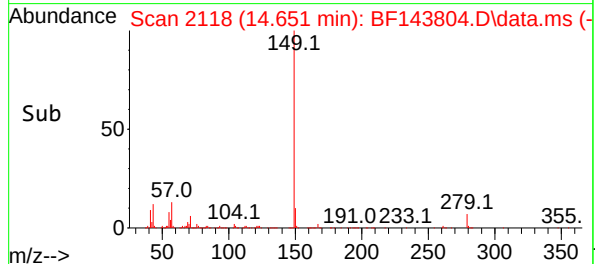
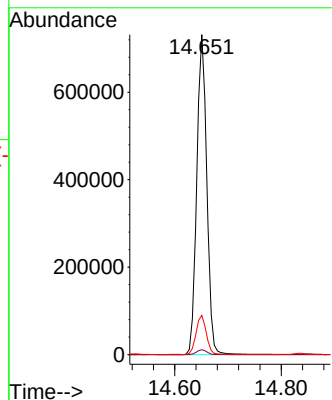
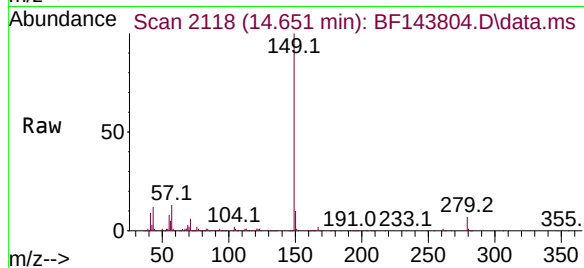
43 12.5 10.7 16.1

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/26/2025

Supervised By :Jagrut Upadhyay 09/26/2025



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.533 min Scan# 2268

Delta R.T. -0.006 min

Lab File: BF143804.D

Acq: 25 Sep 2025 14:16

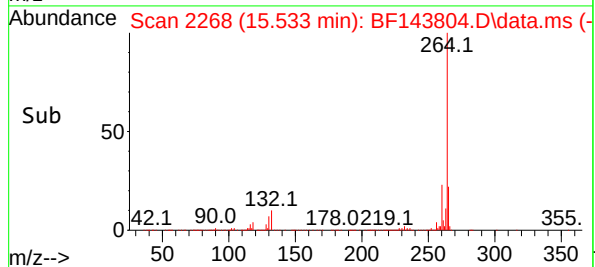
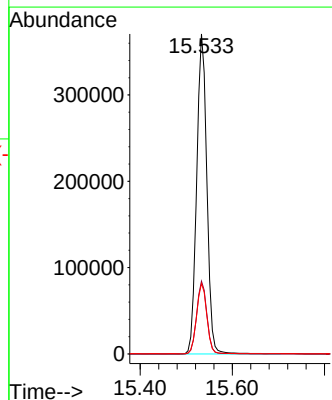
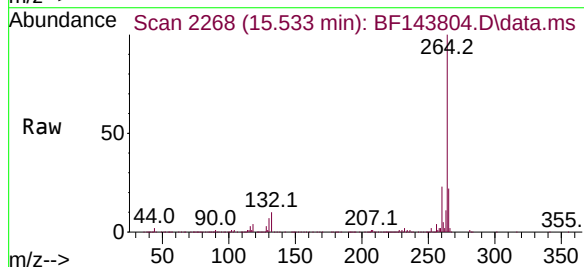
Tgt Ion:264 Resp: 566269

Ion Ratio Lower Upper

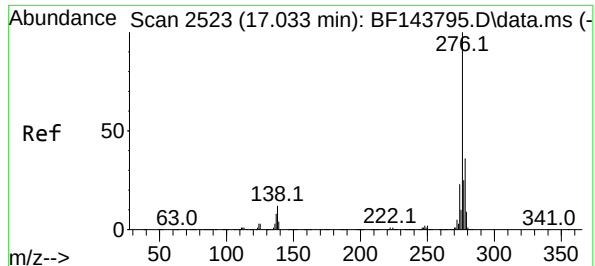
264 100

260 22.7 17.9 26.9

265 22.0 17.7 26.5







#87

Indeno(1,2,3-cd)pyrene

Concen: 47.915 ng

RT: 17.033 min Scan# 2195

Delta R.T. -0.012 min

Lab File: BF143804.D

Acq: 25 Sep 2025 14:16

Instrument :

BNA\_F

ClientSampleId :

PB169827BS

Tgt Ion:276 Resp: 2058670

Ion Ratio Lower Upper

276 100

138 12.8 10.6 15.8

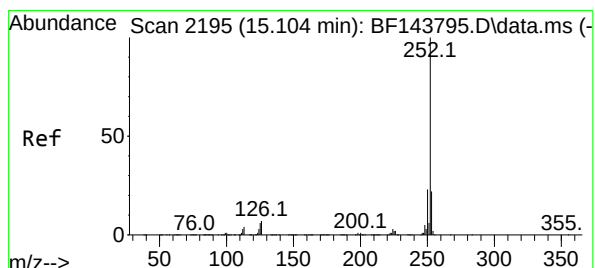
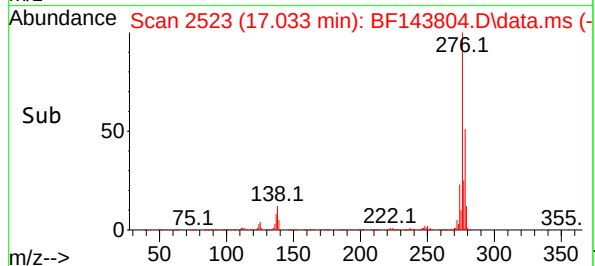
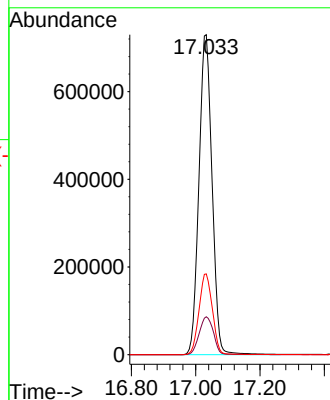
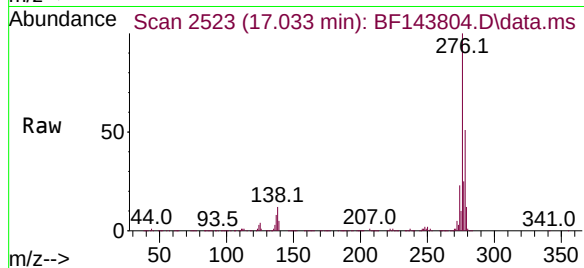
277 25.8 20.7 31.1

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/26/2025

Supervised By :Jagrut Upadhyay 09/26/2025



#88

Benzo(b)fluoranthene

Concen: 51.580 ng

RT: 15.104 min Scan# 2195

Delta R.T. -0.000 min

Lab File: BF143804.D

Acq: 25 Sep 2025 14:16

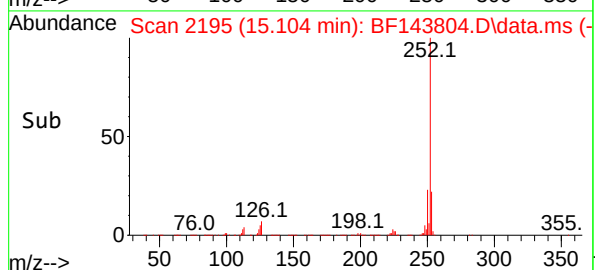
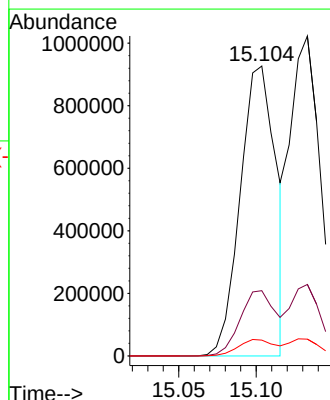
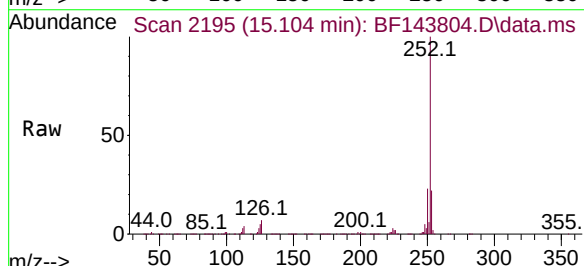
Tgt Ion:252 Resp: 1487418

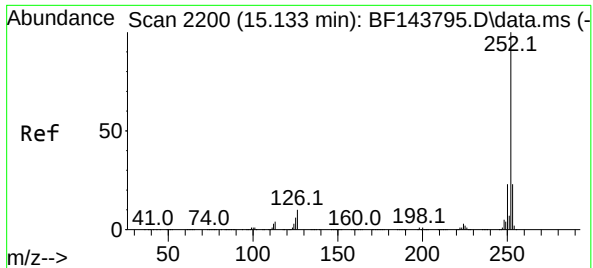
Ion Ratio Lower Upper

252 100

253 22.5 17.8 26.8

125 5.5 4.4 6.6





#89

Benzo(k)fluoranthene

Concen: 48.218 ng

RT: 15.133 min Scan# 2200

Delta R.T. -0.006 min

Lab File: BF143804.D

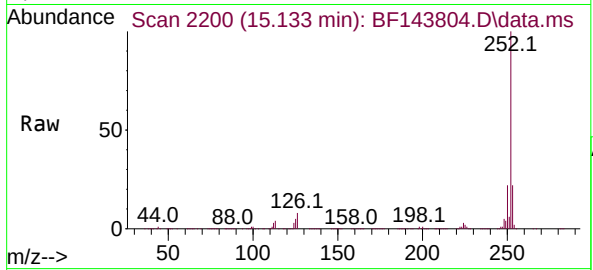
Acq: 25 Sep 2025 14:16

Instrument :

BNA\_F

ClientSampleId :

PB169827BS



Tgt Ion:252 Resp: 1396964

Ion Ratio Lower Upper

252 100

253 22.3 17.9 26.9

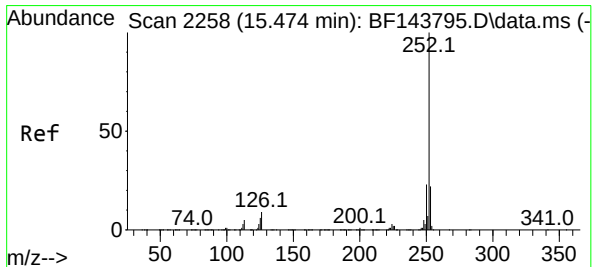
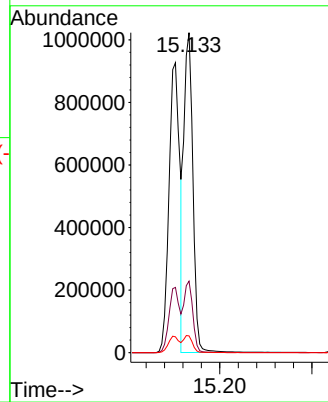
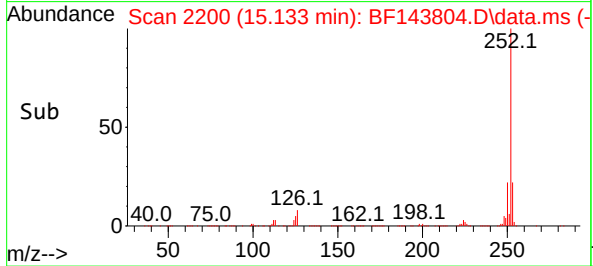
125 5.3 4.6 6.8

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/26/2025

Supervised By :Jagrut Upadhyay 09/26/2025



#90

Benzo(a)pyrene

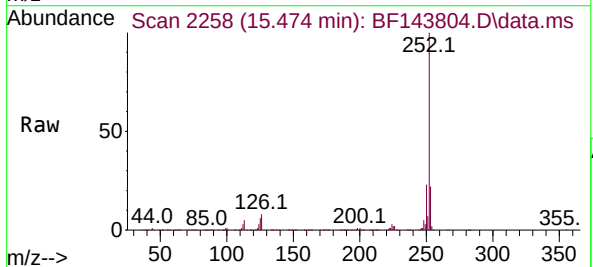
Concen: 51.517 ng

RT: 15.474 min Scan# 2258

Delta R.T. -0.006 min

Lab File: BF143804.D

Acq: 25 Sep 2025 14:16



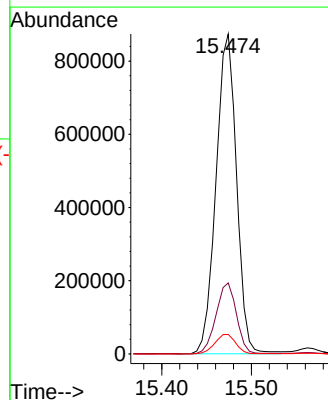
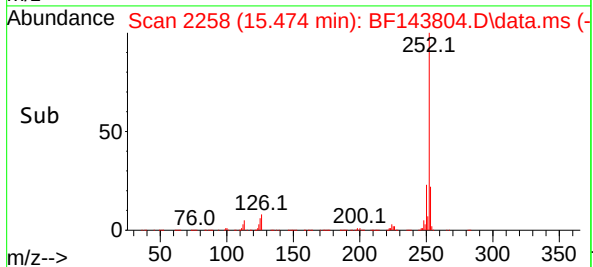
Tgt Ion:252 Resp: 1396443

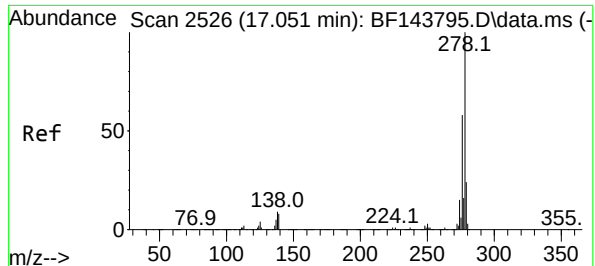
Ion Ratio Lower Upper

252 100

253 22.2 17.6 26.4

125 6.1 5.0 7.4





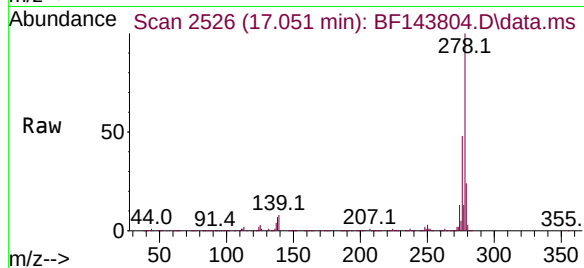
#91  
Dibenzo(a,h)anthracene  
Concen: 49.195 ng  
RT: 17.051 min Scan# 2526  
Delta R.T. -0.018 min  
Lab File: BF143804.D  
Acq: 25 Sep 2025 14:16

Instrument :

BNA\_F

ClientSampleId :

PB169827BS



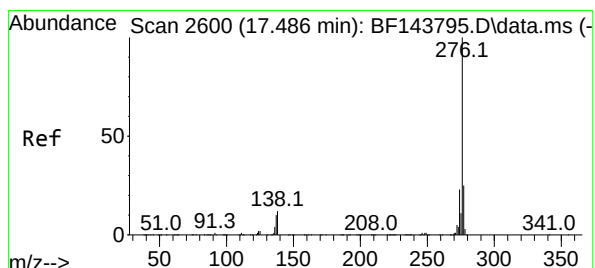
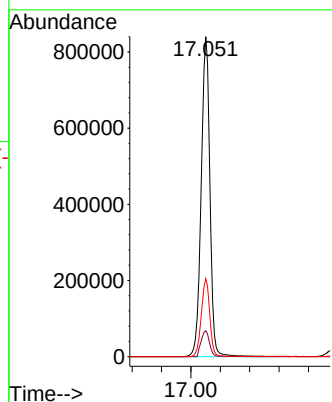
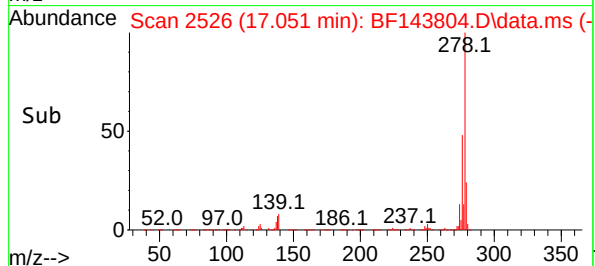
Tgt Ion:278 Resp: 1728792  
Ion Ratio Lower Upper  
278 100  
139 8.1 6.7 10.1  
279 24.3 19.3 28.9

Manual Integrations

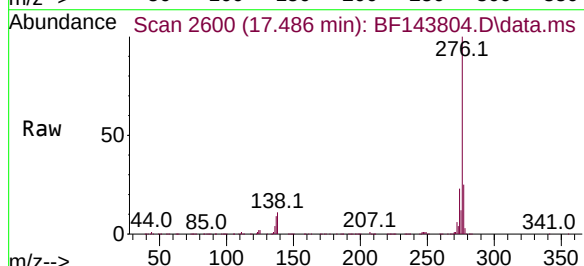
APPROVED

Reviewed By :Rahul Chavli 09/26/2025

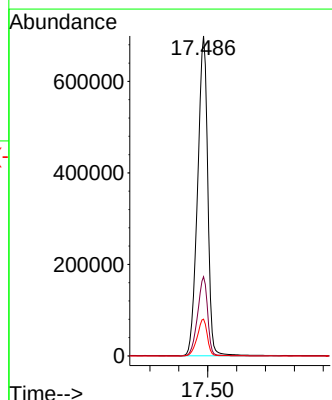
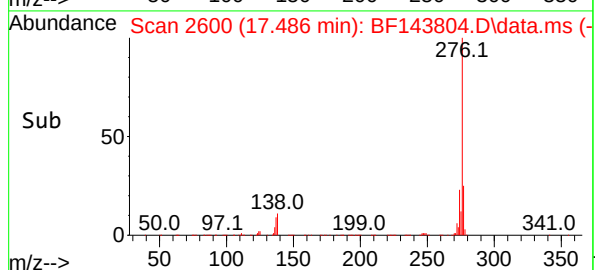
Supervised By :Jagrut Upadhyay 09/26/2025



#92  
Benzo(g,h,i)perylene  
Concen: 50.033 ng  
RT: 17.486 min Scan# 2600  
Delta R.T. -0.018 min  
Lab File: BF143804.D  
Acq: 25 Sep 2025 14:16



Tgt Ion:276 Resp: 1694904  
Ion Ratio Lower Upper  
276 100  
277 24.7 19.6 29.4  
138 11.5 9.2 13.8



## Report of Analysis

|                    |                        |                 |                  |
|--------------------|------------------------|-----------------|------------------|
| Client:            | Weston Solutions, Inc. | Date Collected: | 09/23/25         |
| Project:           | RFP 916                | Date Received:  | 09/23/25         |
| Client Sample ID:  | EME-TS14-01MS          | SDG No.:        | Q3178            |
| Lab Sample ID:     | Q3178-02MS             | Matrix:         | SOIL             |
| Analytical Method: | 8270E                  | % Solid:        | 71.4             |
| Sample Wt/Vol:     | 30.02 Units: g         | Final Vol:      | 1000 uL          |
| Soil Aliquot Vol:  | uL                     | Test:           | SVOC-TCL BNA -20 |
| Extraction Type :  | Decanted : N           | Level :         | LOW              |
| Injection Volume : | GPC Factor : 1.0       | GPC Cleanup :   | N PH :           |
| Prep Method :      | SW3541                 |                 |                  |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BF143817.D        | 1         | 09/25/25 09:25 | 09/25/25 21:50 | PB169827      |

| CAS Number     | Parameter                   | Conc. | Qualifier | MDL  | LOQ / CRQL | Units(Dry Weight) |
|----------------|-----------------------------|-------|-----------|------|------------|-------------------|
| <b>TARGETS</b> |                             |       |           |      |            |                   |
| 100-52-7       | Benzaldehyde                | 1400  |           | 220  | 460        | ug/Kg             |
| 108-95-2       | Phenol                      | 2200  |           | 30.9 | 240        | ug/Kg             |
| 111-44-4       | bis(2-Chloroethyl)ether     | 2100  |           | 34.0 | 240        | ug/Kg             |
| 95-57-8        | 2-Chlorophenol              | 2100  |           | 34.2 | 240        | ug/Kg             |
| 95-48-7        | 2-Methylphenol              | 2200  |           | 41.8 | 240        | ug/Kg             |
| 108-60-1       | 2,2-oxybis(1-Chloropropane) | 2000  |           | 52.5 | 240        | ug/Kg             |
| 98-86-2        | Acetophenone                | 2500  |           | 41.3 | 240        | ug/Kg             |
| 65794-96-9     | 3+4-Methylphenols           | 2100  |           | 57.5 | 460        | ug/Kg             |
| 621-64-7       | n-Nitroso-di-n-propylamine  | 2100  |           | 66.3 | 110        | ug/Kg             |
| 67-72-1        | Hexachloroethane            | 2000  |           | 24.6 | 240        | ug/Kg             |
| 98-95-3        | Nitrobenzene                | 2300  |           | 25.6 | 240        | ug/Kg             |
| 78-59-1        | Isophorone                  | 2300  |           | 45.9 | 240        | ug/Kg             |
| 88-75-5        | 2-Nitrophenol               | 2500  |           | 81.5 | 240        | ug/Kg             |
| 105-67-9       | 2,4-Dimethylphenol          | 2400  |           | 90.7 | 240        | ug/Kg             |
| 111-91-1       | bis(2-Chloroethoxy)methane  | 2200  |           | 43.1 | 240        | ug/Kg             |
| 120-83-2       | 2,4-Dichlorophenol          | 2200  |           | 39.6 | 240        | ug/Kg             |
| 91-20-3        | Naphthalene                 | 2100  |           | 31.8 | 240        | ug/Kg             |
| 106-47-8       | 4-Chloroaniline             | 860   |           | 49.5 | 240        | ug/Kg             |
| 87-68-3        | Hexachlorobutadiene         | 2100  |           | 35.4 | 240        | ug/Kg             |
| 105-60-2       | Caprolactam                 | 2500  |           | 72.9 | 460        | ug/Kg             |
| 59-50-7        | 4-Chloro-3-methylphenol     | 2200  |           | 40.2 | 240        | ug/Kg             |
| 91-57-6        | 2-Methylnaphthalene         | 1900  |           | 35.8 | 240        | ug/Kg             |
| 77-47-4        | Hexachlorocyclopentadiene   | 4000  | E         | 160  | 460        | ug/Kg             |
| 88-06-2        | 2,4,6-Trichlorophenol       | 2400  |           | 27.7 | 240        | ug/Kg             |
| 95-95-4        | 2,4,5-Trichlorophenol       | 2200  |           | 40.7 | 240        | ug/Kg             |
| 92-52-4        | 1,1-Biphenyl                | 2400  |           | 30.5 | 240        | ug/Kg             |
| 91-58-7        | 2-Chloronaphthalene         | 2200  |           | 31.5 | 240        | ug/Kg             |
| 88-74-4        | 2-Nitroaniline              | 2700  |           | 67.3 | 240        | ug/Kg             |
| 131-11-3       | Dimethylphthalate           | 2300  |           | 37.9 | 240        | ug/Kg             |

## Report of Analysis

|                    |                        |                 |                              |
|--------------------|------------------------|-----------------|------------------------------|
| Client:            | Weston Solutions, Inc. | Date Collected: | 09/23/25                     |
| Project:           | RFP 916                | Date Received:  | 09/23/25                     |
| Client Sample ID:  | EME-TS14-01MS          | SDG No.:        | Q3178                        |
| Lab Sample ID:     | Q3178-02MS             | Matrix:         | SOIL                         |
| Analytical Method: | 8270E                  | % Solid:        | 71.4                         |
| Sample Wt/Vol:     | 30.02      Units:    g | Final Vol:      | 1000                      uL |
| Soil Aliquot Vol:  | uL                     | Test:           | SVOC-TCL BNA -20             |
| Extraction Type :  | Decanted :      N      | Level :         | LOW                          |
| Injection Volume : | GPC Factor :    1.0    | GPC Cleanup :   | N                      PH :  |
| Prep Method :      | SW3541                 |                 |                              |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BF143817.D        | 1         | 09/25/25 09:25 | 09/25/25 21:50 | PB169827      |

| CAS Number | Parameter                  | Conc. | Qualifier | MDL  | LOQ / CRQL | Units(Dry Weight) |
|------------|----------------------------|-------|-----------|------|------------|-------------------|
| 208-96-8   | Acenaphthylene             | 2500  |           | 40.4 | 240        | ug/Kg             |
| 606-20-2   | 2,6-Dinitrotoluene         | 2900  |           | 47.0 | 240        | ug/Kg             |
| 99-09-2    | 3-Nitroaniline             | 1800  |           | 64.4 | 240        | ug/Kg             |
| 83-32-9    | Acenaphthene               | 2200  |           | 29.8 | 240        | ug/Kg             |
| 51-28-5    | 2,4-Dinitrophenol          | 3000  |           | 320  | 460        | ug/Kg             |
| 100-02-7   | 4-Nitrophenol              | 5300  | E         | 150  | 460        | ug/Kg             |
| 132-64-9   | Dibenzofuran               | 2200  |           | 31.8 | 240        | ug/Kg             |
| 121-14-2   | 2,4-Dinitrotoluene         | 2600  |           | 70.1 | 240        | ug/Kg             |
| 84-66-2    | Diethylphthalate           | 2300  |           | 39.6 | 240        | ug/Kg             |
| 7005-72-3  | 4-Chlorophenyl-phenylether | 2200  |           | 37.4 | 240        | ug/Kg             |
| 86-73-7    | Fluorene                   | 2200  |           | 35.4 | 240        | ug/Kg             |
| 100-01-6   | 4-Nitroaniline             | 2500  |           | 89.9 | 240        | ug/Kg             |
| 534-52-1   | 4,6-Dinitro-2-methylphenol | 1700  |           | 140  | 460        | ug/Kg             |
| 86-30-6    | n-Nitrosodiphenylamine     | 2100  |           | 46.0 | 240        | ug/Kg             |
| 101-55-3   | 4-Bromophenyl-phenylether  | 2100  |           | 38.9 | 240        | ug/Kg             |
| 118-74-1   | Hexachlorobenzene          | 2100  |           | 35.4 | 240        | ug/Kg             |
| 1912-24-9  | Atrazine                   | 2300  |           | 47.6 | 240        | ug/Kg             |
| 87-86-5    | Pentachlorophenol          | 5200  | E         | 71.8 | 460        | ug/Kg             |
| 85-01-8    | Phenanthrene               | 2200  |           | 29.3 | 240        | ug/Kg             |
| 120-12-7   | Anthracene                 | 2300  |           | 46.6 | 240        | ug/Kg             |
| 86-74-8    | Carbazole                  | 2400  |           | 43.7 | 240        | ug/Kg             |
| 84-74-2    | Di-n-butylphthalate        | 2300  |           | 67.0 | 240        | ug/Kg             |
| 206-44-0   | Fluoranthene               | 2700  |           | 42.0 | 240        | ug/Kg             |
| 129-00-0   | Pyrene                     | 2100  |           | 50.4 | 240        | ug/Kg             |
| 85-68-7    | Butylbenzylphthalate       | 2500  |           | 99.9 | 240        | ug/Kg             |
| 91-94-1    | 3,3-Dichlorobenzidine      | 1800  |           | 51.4 | 460        | ug/Kg             |
| 56-55-3    | Benzo(a)anthracene         | 2300  |           | 32.2 | 240        | ug/Kg             |
| 218-01-9   | Chrysene                   | 2300  |           | 27.9 | 240        | ug/Kg             |
| 117-81-7   | Bis(2-ethylhexyl)phthalate | 2200  |           | 82.9 | 240        | ug/Kg             |
| 117-84-0   | Di-n-octyl phthalate       | 2200  |           | 120  | 460        | ug/Kg             |
| 205-99-2   | Benzo(b)fluoranthene       | 3000  |           | 26.6 | 240        | ug/Kg             |

## Report of Analysis

|                    |                        |                 |                              |
|--------------------|------------------------|-----------------|------------------------------|
| Client:            | Weston Solutions, Inc. | Date Collected: | 09/23/25                     |
| Project:           | RFP 916                | Date Received:  | 09/23/25                     |
| Client Sample ID:  | EME-TS14-01MS          | SDG No.:        | Q3178                        |
| Lab Sample ID:     | Q3178-02MS             | Matrix:         | SOIL                         |
| Analytical Method: | 8270E                  | % Solid:        | 71.4                         |
| Sample Wt/Vol:     | 30.02      Units:    g | Final Vol:      | 1000                      uL |
| Soil Aliquot Vol:  | uL                     | Test:           | SVOC-TCL BNA -20             |
| Extraction Type :  | Decanted :      N      | Level :         | LOW                          |
| Injection Volume : | GPC Factor :    1.0    | GPC Cleanup :   | N                      PH :  |
| Prep Method :      | SW3541                 |                 |                              |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BF143817.D        | 1         | 09/25/25 09:25 | 09/25/25 21:50 | PB169827      |

| CAS Number                | Parameter                  | Conc.  | Qualifier | MDL      | LOQ / CRQL | Units(Dry Weight) |
|---------------------------|----------------------------|--------|-----------|----------|------------|-------------------|
| 207-08-9                  | Benzo(k)fluoranthene       | 2300   |           | 31.4     | 240        | ug/Kg             |
| 50-32-8                   | Benzo(a)pyrene             | 2500   |           | 41.3     | 240        | ug/Kg             |
| 193-39-5                  | Indeno(1,2,3-cd)pyrene     | 1600   |           | 40.7     | 240        | ug/Kg             |
| 53-70-3                   | Dibenzo(a,h)anthracene     | 1600   |           | 38.3     | 240        | ug/Kg             |
| 191-24-2                  | Benzo(g,h,i)perylene       | 1600   |           | 36.0     | 240        | ug/Kg             |
| 95-94-3                   | 1,2,4,5-Tetrachlorobenzene | 2400   |           | 35.8     | 240        | ug/Kg             |
| 123-91-1                  | 1,4-Dioxane                | 2100   |           | 63.3     | 240        | ug/Kg             |
| 58-90-2                   | 2,3,4,6-Tetrachlorophenol  | 2700   |           | 38.3     | 240        | ug/Kg             |
| <b>SURROGATES</b>         |                            |        |           |          |            |                   |
| 367-12-4                  | 2-Fluorophenol             | 83.4   |           | 18 - 112 | 56%        | SPK: 150          |
| 13127-88-3                | Phenol-d6                  | 85.1   |           | 15 - 107 | 57%        | SPK: 150          |
| 4165-60-0                 | Nitrobenzene-d5            | 62.6   |           | 18 - 107 | 63%        | SPK: 100          |
| 321-60-8                  | 2-Fluorobiphenyl           | 49.8   |           | 20 - 109 | 50%        | SPK: 100          |
| 118-79-6                  | 2,4,6-Tribromophenol       | 83.2   |           | 10 - 116 | 55%        | SPK: 150          |
| 1718-51-0                 | Terphenyl-d14              | 48.3   |           | 10 - 105 | 48%        | SPK: 100          |
| <b>INTERNAL STANDARDS</b> |                            |        |           |          |            |                   |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4     | 121000 | 6.886     |          |            |                   |
| 1146-65-2                 | Naphthalene-d8             | 419000 | 8.169     |          |            |                   |
| 15067-26-2                | Acenaphthene-d10           | 197000 | 9.922     |          |            |                   |
| 1517-22-2                 | Phenanthrene-d10           | 339000 | 11.41     |          |            |                   |
| 1719-03-5                 | Chrysene-d12               | 466000 | 14.062    |          |            |                   |
| 1520-96-3                 | Perylene-d12               | 480000 | 15.533    |          |            |                   |

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\_F\Data\BF092525\  
 Data File : BF143817.D  
 Acq On : 25 Sep 2025 21:50  
 Operator : RC/JU  
 Sample : Q3178-02MS  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 EME-TS14-01MS

Quant Time: Sep 25 23:26:06 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF092325.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Sep 24 05:00:00 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.886  | 152  | 121227   | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8            | 8.169  | 136  | 419443   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10          | 9.922  | 164  | 197016   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10          | 11.410 | 188  | 338625   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12              | 14.062 | 240  | 466221   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12              | 15.533 | 264  | 479520   | 20.000 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.498  | 112  | 622010   | 83.363 | ng    | 0.00     |
| 7) Phenol-d6                  | 6.504  | 99   | 733982   | 85.136 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 7.445  | 82   | 428919   | 62.594 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 10.710 | 330  | 242635   | 83.176 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 9.239  | 172  | 629128   | 49.831 | ng    | 0.00     |
| 79) Terphenyl-d14             | 12.998 | 244  | 1106215  | 48.255 | ng    | 0.00     |
| Target Compounds              |        |      |          |        |       |          |
|                               |        |      |          |        |       | Qvalue   |
| 2) 1,4-Dioxane                | 2.699  | 88   | 162491   | 45.498 | ng    | 98       |
| 3) Pyridine                   | 3.463  | 79   | 440296   | 45.672 | ng    | 95       |
| 4) n-Nitrosodimethylamine     | 3.410  | 42   | 243497   | 50.373 | ng    | 93       |
| 6) Aniline                    | 6.545  | 93   | 316454   | 25.290 | ng    | 99       |
| 8) 2-Chlorophenol             | 6.669  | 128  | 346697   | 45.387 | ng    | 99       |
| 9) Benzaldehyde               | 6.434  | 77   | 231488   | 30.662 | ng    | 99       |
| 10) Phenol                    | 6.522  | 94   | 470295   | 46.931 | ng    | 98       |
| 11) bis(2-Chloroethyl)ether   | 6.616  | 93   | 360646   | 45.912 | ng    | 99       |
| 12) 1,3-Dichlorobenzene       | 6.828  | 146  | 405018   | 45.667 | ng    | 99       |
| 13) 1,4-Dichlorobenzene       | 6.904  | 146  | 409651   | 46.284 | ng    | 99       |
| 14) 1,2-Dichlorobenzene       | 7.057  | 146  | 388753   | 46.376 | ng    | 99       |
| 15) Benzyl Alcohol            | 7.022  | 79   | 312277   | 50.129 | ng    | 99       |
| 16) 2,2'-oxybis(1-Chloropr... | 7.157  | 45   | 789653   | 42.394 | ng    | 99       |
| 17) 2-Methylphenol            | 7.134  | 107  | 272851   | 46.138 | ng    | 99       |
| 18) Hexachloroethane          | 7.398  | 117  | 135933   | 43.671 | ng    | 97       |
| 19) n-Nitroso-di-n-propyla... | 7.292  | 70   | 246676   | 44.495 | ng    | 97       |
| 20) 3+4-Methylphenols         | 7.281  | 107  | 329519   | 45.755 | ng    | 94       |
| 22) Acetophenone              | 7.292  | 105  | 496044   | 53.844 | ng    | 98       |
| 24) Nitrobenzene              | 7.463  | 77   | 374991   | 49.371 | ng    | 98       |
| 25) Isophorone                | 7.704  | 82   | 653967   | 48.975 | ng    | 99       |
| 26) 2-Nitrophenol             | 7.781  | 139  | 165168   | 52.687 | ng    | 97       |
| 27) 2,4-Dimethylphenol        | 7.816  | 122  | 310866   | 52.086 | ng    | 98       |
| 28) bis(2-Chloroethoxy)met... | 7.916  | 93   | 400670   | 46.185 | ng    | 98       |
| 29) 2,4-Dichlorophenol        | 8.022  | 162  | 270872   | 46.125 | ng    | 99       |
| 30) 1,2,4-Trichlorobenzene    | 8.110  | 180  | 298708   | 49.013 | ng    | 99       |
| 31) Naphthalene               | 8.192  | 128  | 918353   | 45.736 | ng    | 100      |
| 32) Benzoic acid              | 7.910  | 122  | 189666   | 65.866 | ng    | 98       |
| 33) 4-Chloroaniline           | 8.233  | 127  | 129374   | 18.335 | ng    | 97       |
| 34) Hexachlorobutadiene       | 8.310  | 225  | 207595   | 45.693 | ng    | 99       |
| 35) Caprolactam               | 8.592  | 113  | 81158    | 54.068 | ng    | 96       |
| 36) 4-Chloro-3-methylphenol   | 8.710  | 107  | 257062   | 46.673 | ng    | 99       |
| 37) 2-Methylnaphthalene       | 8.880  | 142  | 530930   | 41.467 | ng    | 100      |
| 38) 1-Methylnaphthalene       | 8.980  | 142  | 536240   | 43.757 | ng    | 99       |
| 40) 1,2,4,5-Tetrachloroben... | 9.045  | 216  | 308089   | 51.818 | ng    | 98       |
| 41) Hexachlorocyclopentadiene | 9.033  | 237  | 321513   | 85.324 | ng    | 99       |
| 43) 2,4,6-Trichlorophenol     | 9.157  | 196  | 192682   | 51.756 | ng    | 98       |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF092525\  
 Data File : BF143817.D  
 Acq On : 25 Sep 2025 21:50  
 Operator : RC/JU  
 Sample : Q3178-02MS  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 EME-TS14-01MS

Quant Time: Sep 25 23:26:06 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF092325.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Sep 24 05:00:00 2025  
 Response via : Initial Calibration

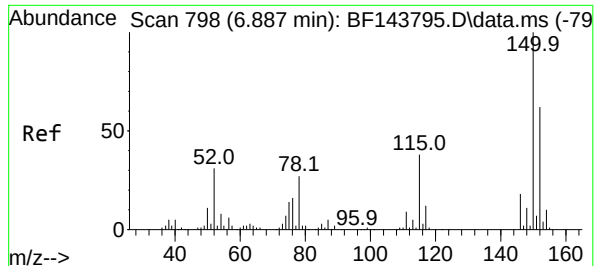
| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 44) 2,4,5-Trichlorophenol     | 9.192  | 196  | 187630   | 48.183  | ng    | 99       |
| 46) 1,1'-Biphenyl             | 9.345  | 154  | 731116   | 51.265  | ng    | 99       |
| 47) 2-Chloronaphthalene       | 9.369  | 162  | 530383   | 46.202  | ng    | 100      |
| 48) 2-Nitroaniline            | 9.463  | 65   | 197163   | 56.826  | ng    | 99       |
| 49) Acenaphthylene            | 9.786  | 152  | 839183   | 53.101  | ng    | 100      |
| 50) Dimethylphthalate         | 9.639  | 163  | 594435   | 49.503  | ng    | 99       |
| 51) 2,6-Dinitrotoluene        | 9.704  | 165  | 123949   | 62.825  | ng    | 96       |
| 52) Acenaphthene              | 9.957  | 154  | 483438   | 46.485  | ng    | 100      |
| 53) 3-Nitroaniline            | 9.869  | 138  | 91177    | 38.126  | ng    | 99       |
| 54) 2,4-Dinitrophenol         | 9.975  | 184  | 47537    | 63.893  | ng    | # 63     |
| 55) Dibenzofuran              | 10.127 | 168  | 690882   | 46.979  | ng    | 100      |
| 56) 4-Nitrophenol             | 10.027 | 139  | 220693   | 114.521 | ng    | 93       |
| 57) 2,4-Dinitrotoluene        | 10.104 | 165  | 163310   | 55.295  | ng    | 99       |
| 58) Fluorene                  | 10.474 | 166  | 523002   | 47.838  | ng    | 99       |
| 59) 2,3,4,6-Tetrachlorophenol | 10.245 | 232  | 190538   | 57.116  | ng    | 97       |
| 60) Diethylphthalate          | 10.345 | 149  | 549355   | 48.872  | ng    | 100      |
| 61) 4-Chlorophenyl-phenyle... | 10.463 | 204  | 259499   | 46.583  | ng    | 99       |
| 62) 4-Nitroaniline            | 10.480 | 138  | 119810   | 53.282  | ng    | 98       |
| 63) Azobenzene                | 10.627 | 77   | 586205   | 49.483  | ng    | 97       |
| 65) 4,6-Dinitro-2-methylph... | 10.510 | 198  | 42324    | 36.969  | ng    | 92       |
| 66) n-Nitrosodiphenylamine    | 10.580 | 169  | 496491   | 44.583  | ng    | 99       |
| 67) 4-Bromophenyl-phenylether | 10.957 | 248  | 257415   | 44.607  | ng    | 97       |
| 68) Hexachlorobenzene         | 11.022 | 284  | 354496   | 44.576  | ng    | 99       |
| 69) Atrazine                  | 11.110 | 200  | 161262   | 50.006  | ng    | 97       |
| 70) Pentachlorophenol         | 11.216 | 266  | 440851   | 111.364 | ng    | 99       |
| 71) Phenanthrene              | 11.439 | 178  | 812817   | 46.754  | ng    | 100      |
| 72) Anthracene                | 11.486 | 178  | 842097   | 48.290  | ng    | 99       |
| 73) Carbazole                 | 11.645 | 167  | 788458   | 51.713  | ng    | 99       |
| 74) Di-n-butylphthalate       | 11.974 | 149  | 865492   | 49.358  | ng    | 100      |
| 75) Fluoranthene              | 12.627 | 202  | 1014060  | 57.995  | ng    | 99       |
| 77) Benzidine                 | 12.751 | 184  | 400056   | 35.214  | ng    | 100      |
| 78) Pyrene                    | 12.857 | 202  | 1054811  | 46.019  | ng    | 99       |
| 80) Butylbenzylphthalate      | 13.474 | 149  | 417931   | 52.702  | ng    | 99       |
| 81) Benzo(a)anthracene        | 14.051 | 228  | 1226054  | 48.951  | ng    | 99       |
| 82) 3,3'-Dichlorobenzidine    | 14.010 | 252  | 410788   | 37.859  | ng    | 99       |
| 83) Chrysene                  | 14.086 | 228  | 1094367  | 48.288  | ng    | 100      |
| 84) Bis(2-ethylhexyl)phtha... | 14.039 | 149  | 539945   | 46.451  | ng    | 100      |
| 85) Di-n-octyl phthalate      | 14.651 | 149  | 976739   | 46.324  | ng    | 96       |
| 87) Indeno(1,2,3-cd)pyrene    | 17.027 | 276  | 1234729  | 33.937  | ng    | 100      |
| 88) Benzo(b)fluoranthene      | 15.104 | 252  | 1556899  | 63.756  | ng    | 99       |
| 89) Benzo(k)fluoranthene      | 15.133 | 252  | 1205497  | 49.137  | ng    | 100      |
| 90) Benzo(a)pyrene            | 15.474 | 252  | 1214603  | 52.915  | ng    | 99       |
| 91) Dibenzo(a,h)anthracene    | 17.051 | 278  | 999487   | 33.587  | ng    | 100      |
| 92) Benzo(g,h,i)perylene      | 17.480 | 276  | 973139   | 33.924  | ng    | 100      |

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



**Instrument :**  
BNA\_F  
**ClientSampleId :**  
EME-TS14-01MS

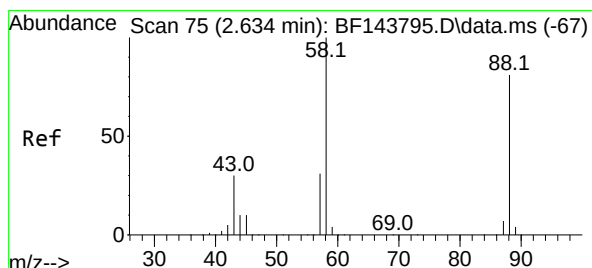
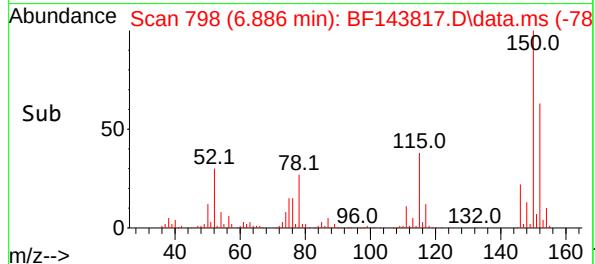
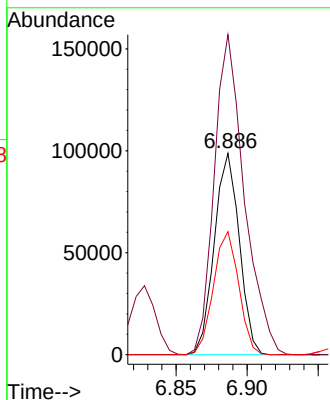
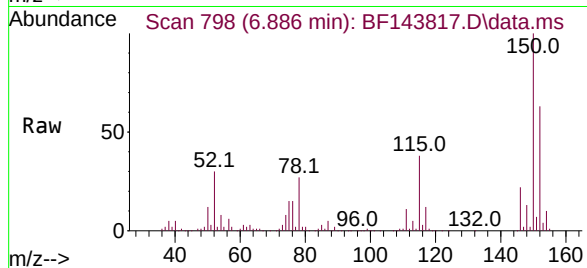
[illegible]



#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.886 min Scan# 79  
Delta R.T. -0.001 min  
Lab File: BF143817.D  
Acq: 25 Sep 2025 21:50

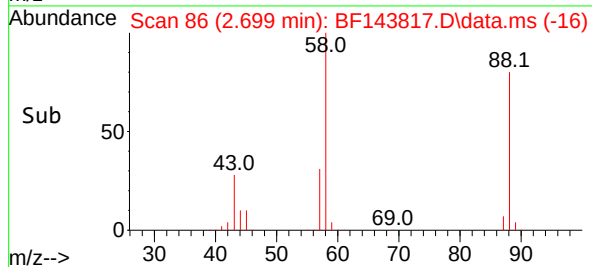
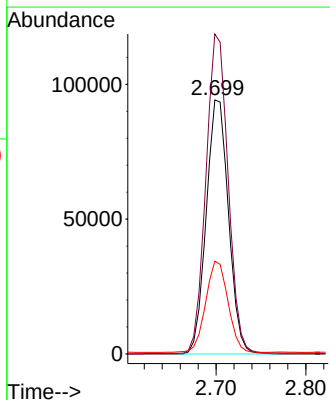
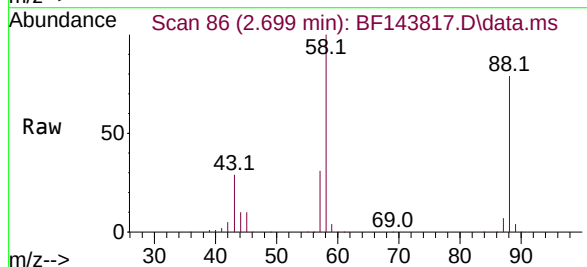
Instrument :  
BNA\_F  
ClientSampleId :  
EME-TS14-01MS

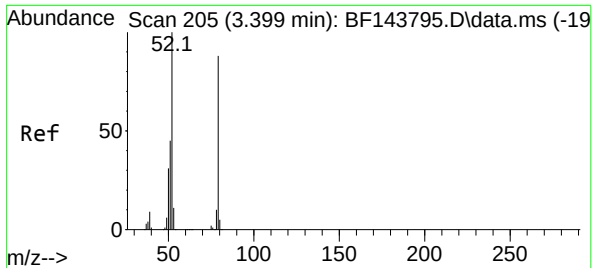
Tgt Ion:152 Resp: 121227  
Ion Ratio Lower Upper  
152 100  
150 159.0 129.6 194.4  
115 61.1 49.0 73.4



#2  
1,4-Dioxane  
Concen: 45.498 ng  
RT: 2.699 min Scan# 86  
Delta R.T. 0.065 min  
Lab File: BF143817.D  
Acq: 25 Sep 2025 21:50

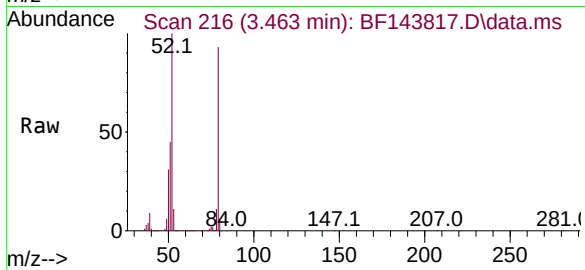
Tgt Ion: 88 Resp: 162491  
Ion Ratio Lower Upper  
88 100  
58 126.1 99.4 149.2  
43 36.0 30.6 45.8



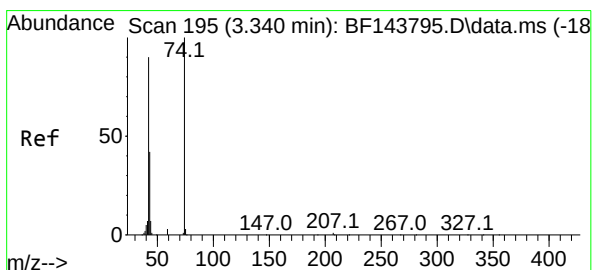
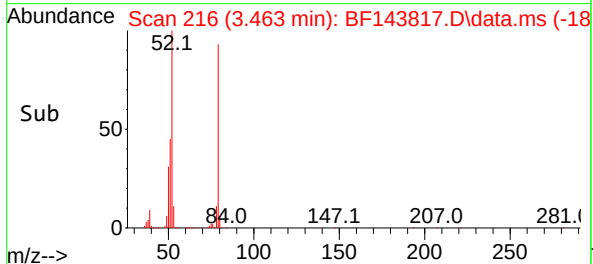
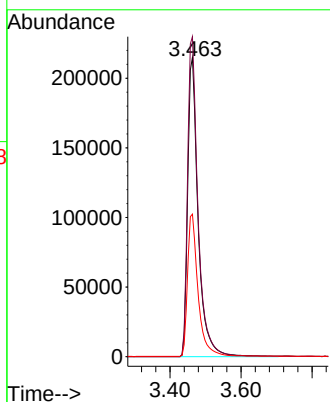


#3  
Pyridine  
Concen: 45.672 ng  
RT: 3.463 min Scan# 21  
Delta R.T. 0.065 min  
Lab File: BF143817.D  
Acq: 25 Sep 2025 21:50

Instrument :  
BNA\_F  
ClientSampleId :  
EME-TS14-01MS

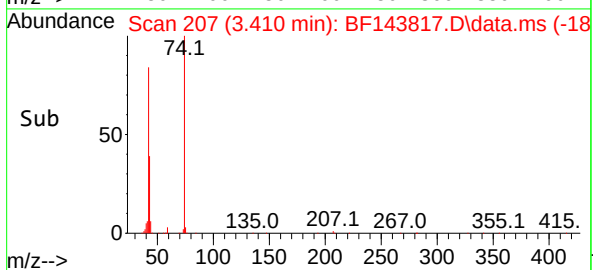
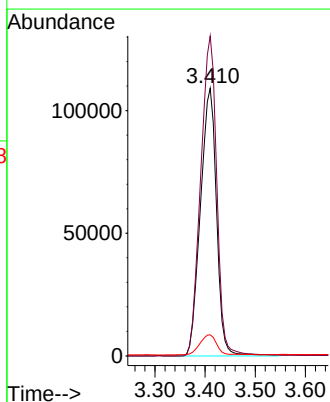
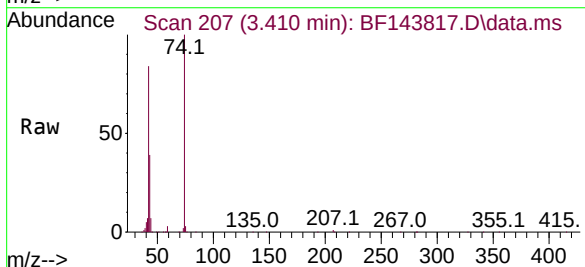


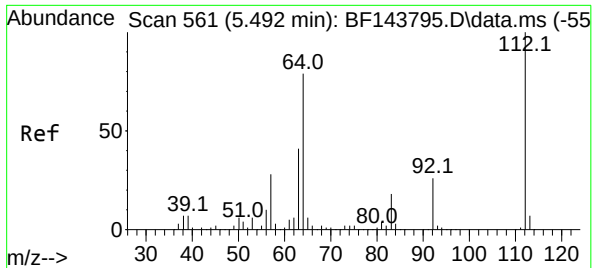
Tgt Ion: 79 Resp: 440296  
Ion Ratio Lower Upper  
79 100  
52 107.0 90.5 135.7  
51 47.6 40.6 61.0



#4  
n-Nitrosodimethylamine  
Concen: 50.373 ng  
RT: 3.410 min Scan# 207  
Delta R.T. 0.053 min  
Lab File: BF143817.D  
Acq: 25 Sep 2025 21:50

Tgt Ion: 42 Resp: 243497  
Ion Ratio Lower Upper  
42 100  
74 119.6 89.1 133.7  
44 7.9 6.4 9.6

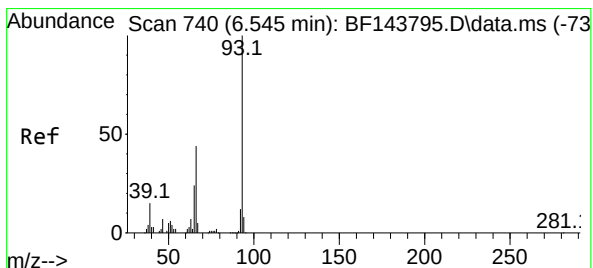
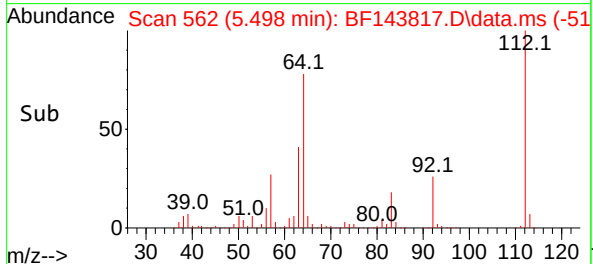
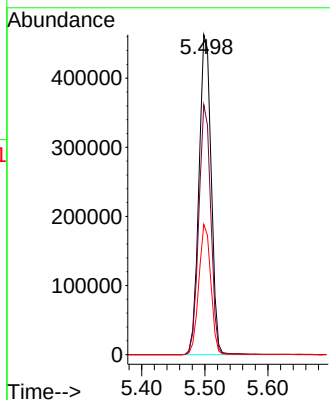
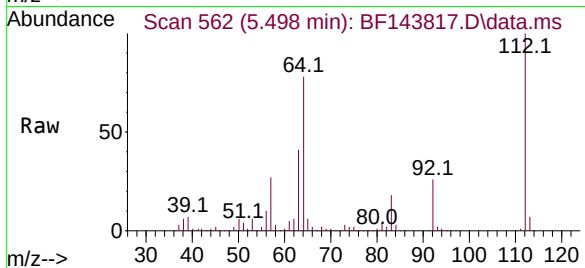




#5  
2-Fluorophenol  
Concen: 83.363 ng  
RT: 5.498 min Scan# 561  
Delta R.T. 0.000 min  
Lab File: BF143817.D  
Acq: 25 Sep 2025 21:50

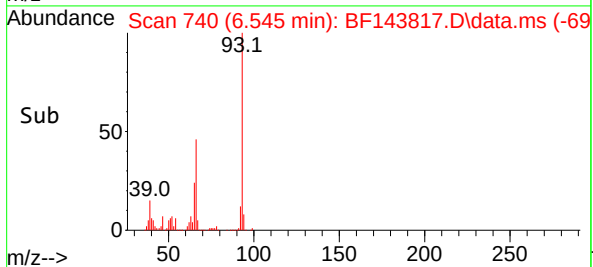
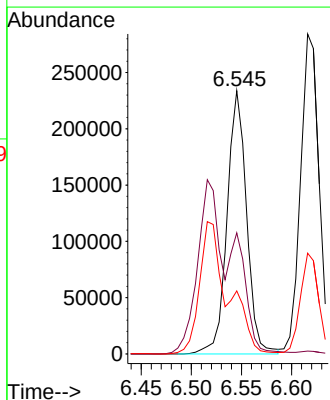
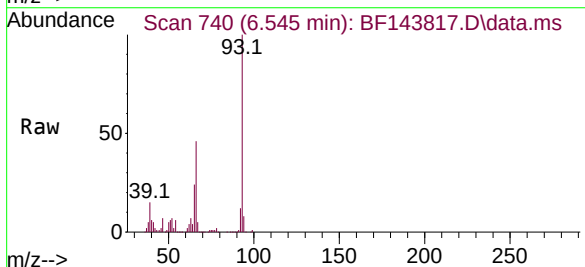
Instrument :  
BNA\_F  
ClientSampleId :  
EME-TS14-01MS

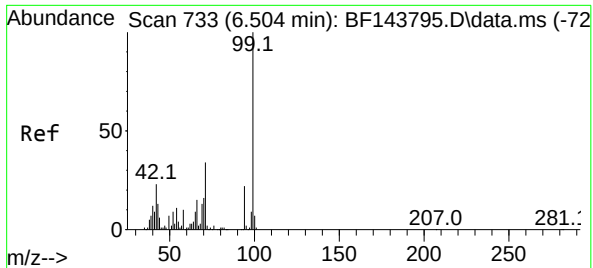
Tgt Ion:112 Resp: 622010  
Ion Ratio Lower Upper  
112 100  
64 78.1 63.0 94.4  
63 40.7 32.6 49.0



#6  
Aniline  
Concen: 25.290 ng  
RT: 6.545 min Scan# 740  
Delta R.T. -0.006 min  
Lab File: BF143817.D  
Acq: 25 Sep 2025 21:50

Tgt Ion: 93 Resp: 316454  
Ion Ratio Lower Upper  
93 100  
66 46.0 37.1 55.7  
65 23.9 19.4 29.0

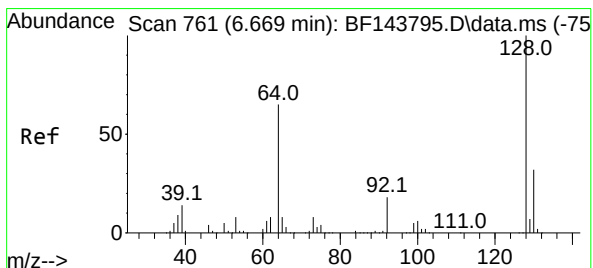
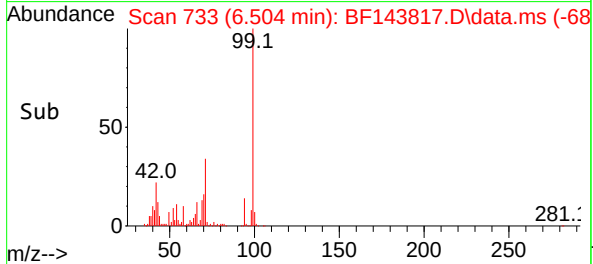
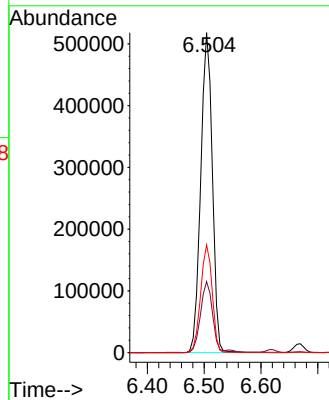
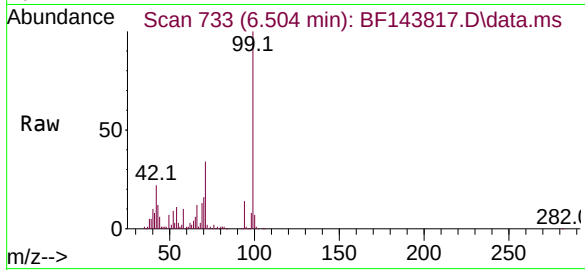




#7  
Phenol-d6  
Concen: 85.136 ng  
RT: 6.504 min Scan# 733  
Delta R.T. -0.006 min  
Lab File: BF143817.D  
Acq: 25 Sep 2025 21:50

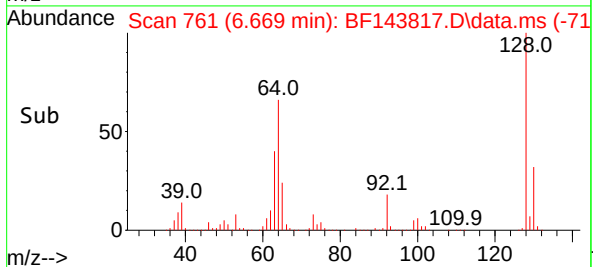
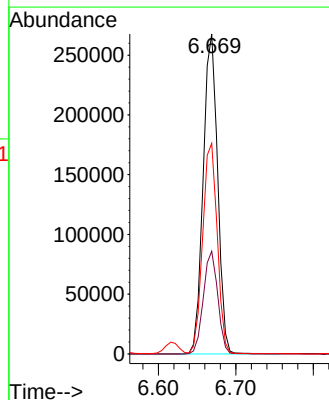
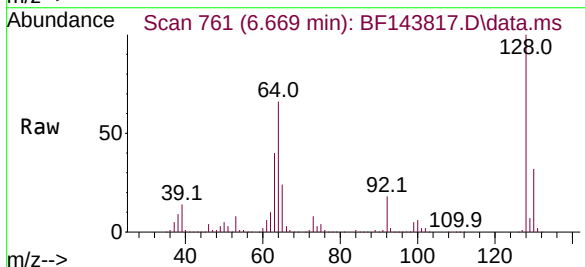
Instrument :  
BNA\_F  
ClientSampleId :  
EME-TS14-01MS

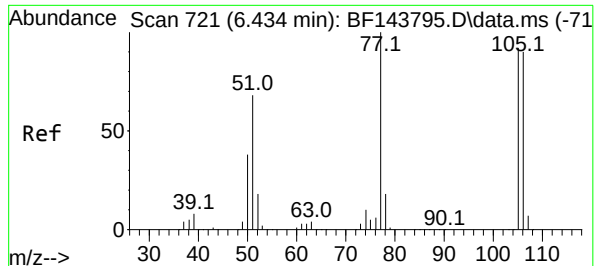
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 99      | 100   |       |       |
| 42      | 22.2  | 18.6  | 28.0  |
| 71      | 33.7  | 27.0  | 40.4  |



#8  
2-Chlorophenol  
Concen: 45.387 ng  
RT: 6.669 min Scan# 761  
Delta R.T. -0.000 min  
Lab File: BF143817.D  
Acq: 25 Sep 2025 21:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 130     | 32.1  | 12.2  | 52.2  |
| 64      | 65.8  | 46.5  | 86.5  |





#9

Benzaldehyde

Concen: 30.662 ng

RT: 6.434 min Scan# 721

Delta R.T. -0.006 min

Lab File: BF143817.D

Acq: 25 Sep 2025 21:50

Instrument :

BNA\_F

ClientSampleId :

EME-TS14-01MS

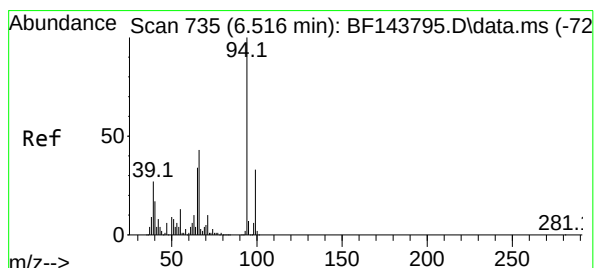
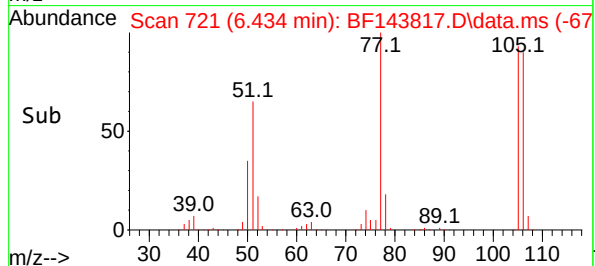
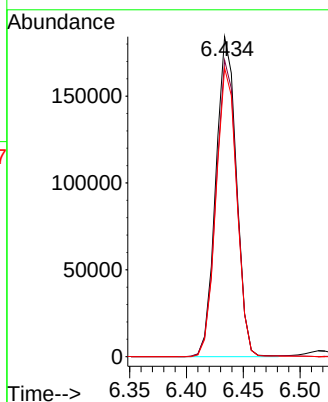
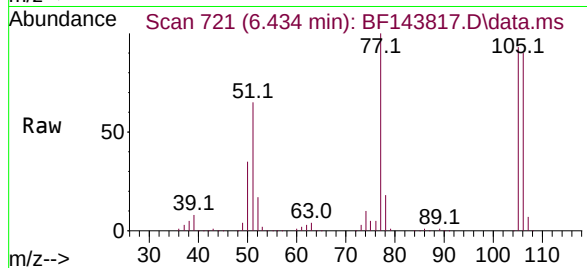
Tgt Ion: 77 Resp: 231488

Ion Ratio Lower Upper

77 100

105 92.6 71.8 111.8

106 90.2 69.8 109.8



#10

Phenol

Concen: 46.931 ng

RT: 6.522 min Scan# 736

Delta R.T. -0.006 min

Lab File: BF143817.D

Acq: 25 Sep 2025 21:50

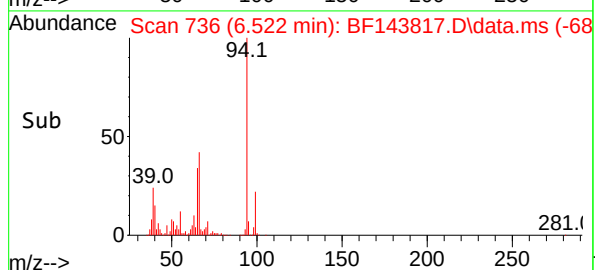
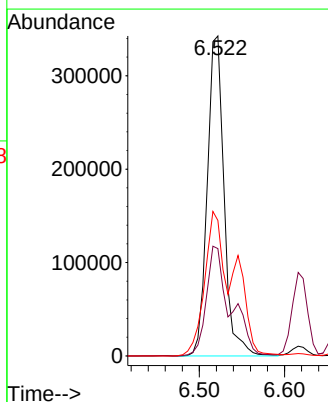
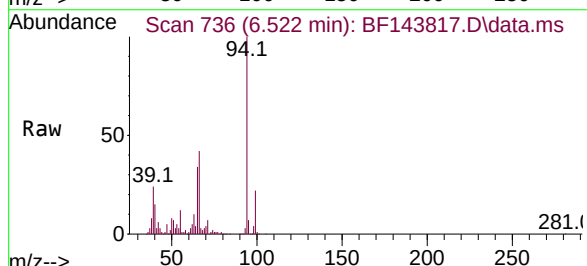
Tgt Ion: 94 Resp: 470295

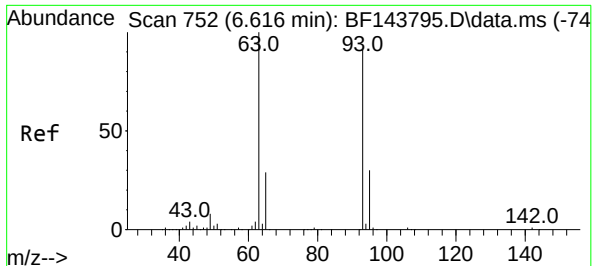
Ion Ratio Lower Upper

94 100

65 33.5 14.2 54.2

66 42.3 24.1 64.1

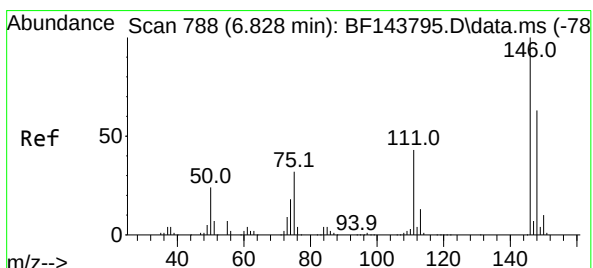
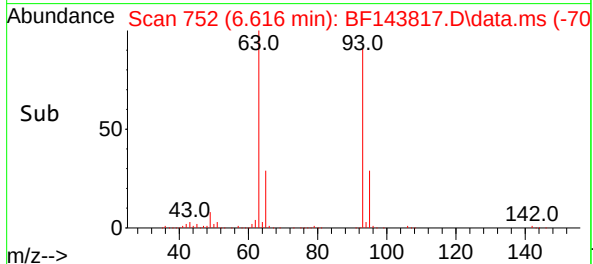
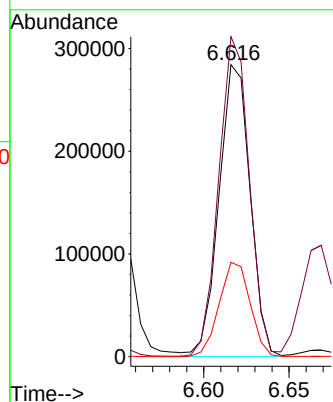
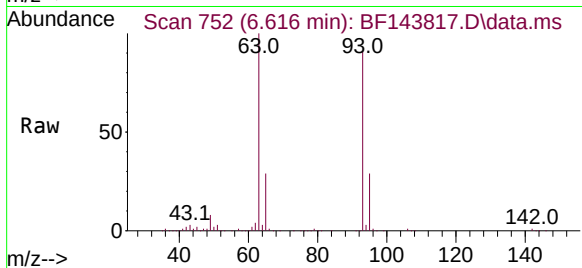




#11  
bis(2-Chloroethyl)ether  
Concen: 45.912 ng  
RT: 6.616 min Scan# 752  
Delta R.T. -0.006 min  
Lab File: BF143817.D  
Acq: 25 Sep 2025 21:50

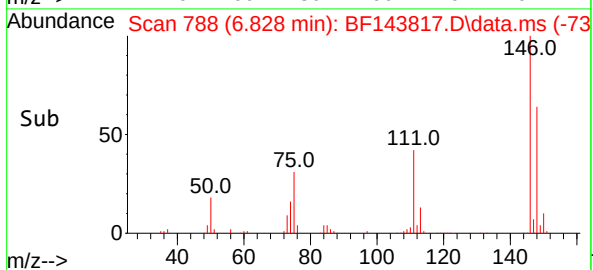
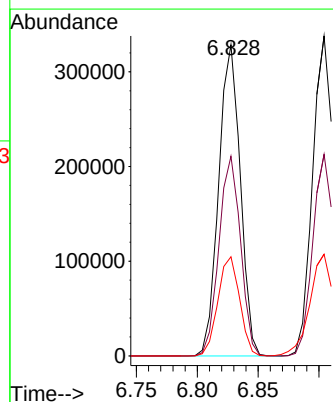
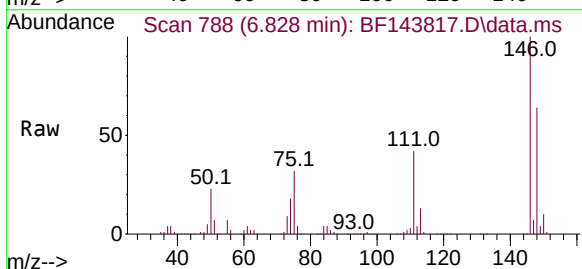
Instrument :  
BNA\_F  
ClientSampleId :  
EME-TS14-01MS

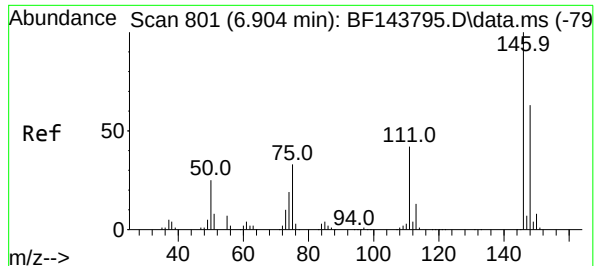
Tgt Ion: 93 Resp: 360646  
Ion Ratio Lower Upper  
93 100  
63 109.6 89.2 129.2  
95 32.3 12.9 52.9



#12  
1,3-Dichlorobenzene  
Concen: 45.667 ng  
RT: 6.828 min Scan# 788  
Delta R.T. -0.000 min  
Lab File: BF143817.D  
Acq: 25 Sep 2025 21:50

Tgt Ion:146 Resp: 405018  
Ion Ratio Lower Upper  
146 100  
148 64.2 50.4 75.6  
75 31.8 25.6 38.4





#13

1,4-Dichlorobenzene

Concen: 46.284 ng

RT: 6.904 min Scan# 801

Delta R.T. -0.000 min

Lab File: BF143817.D

Acq: 25 Sep 2025 21:50

Instrument :

BNA\_F

ClientSampleId :

EME-TS14-01MS

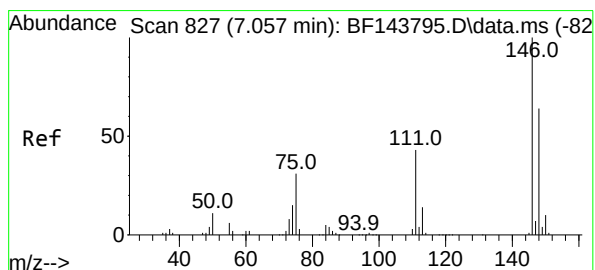
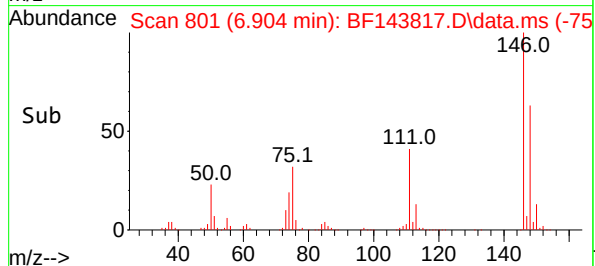
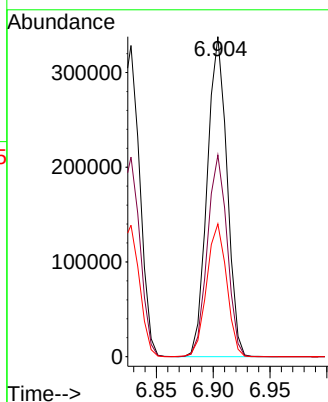
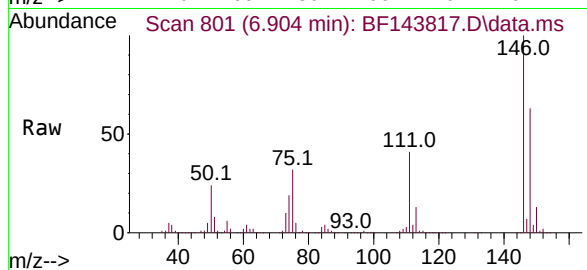
Tgt Ion:146 Resp: 409651

Ion Ratio Lower Upper

146 100

148 63.0 50.7 76.1

111 41.5 33.4 50.2



#14

1,2-Dichlorobenzene

Concen: 46.376 ng

RT: 7.057 min Scan# 827

Delta R.T. -0.000 min

Lab File: BF143817.D

Acq: 25 Sep 2025 21:50

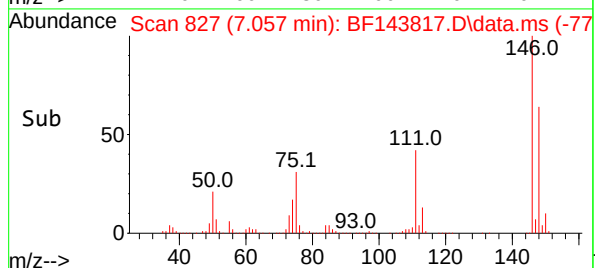
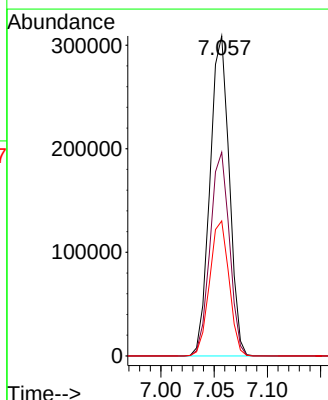
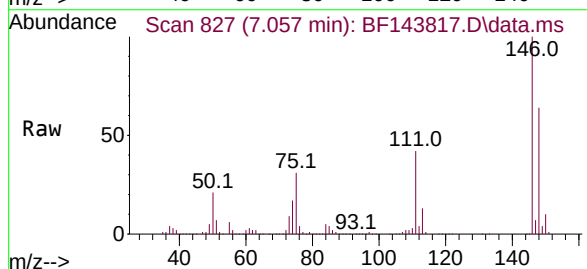
Tgt Ion:146 Resp: 388753

Ion Ratio Lower Upper

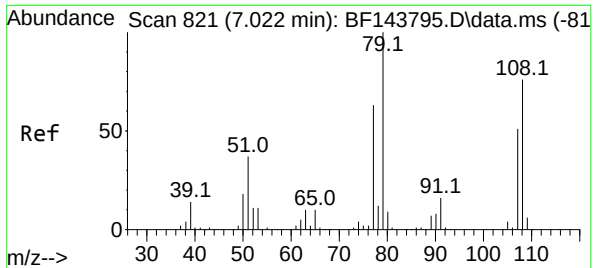
146 100

148 63.6 51.1 76.7

111 42.2 34.3 51.5



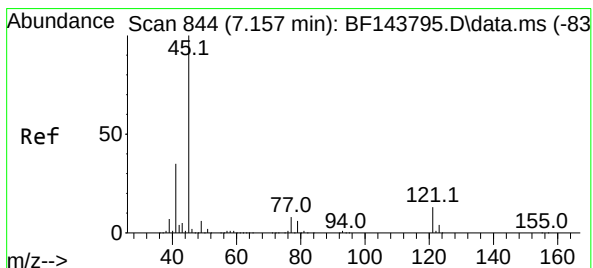
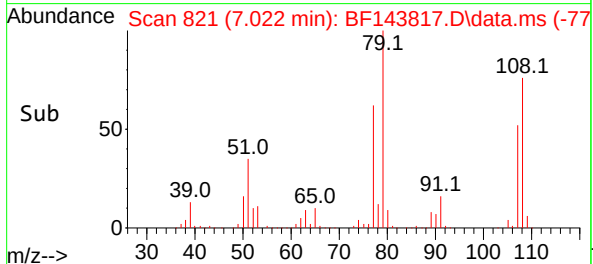
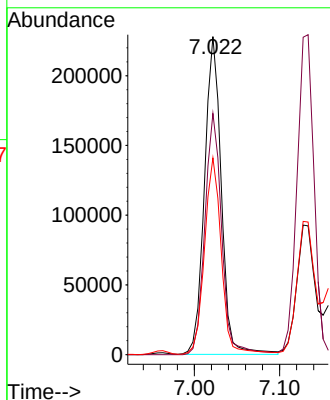
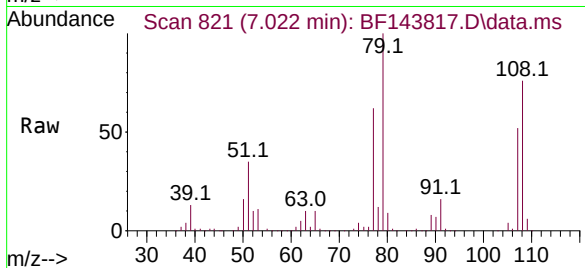




#15  
Benzyl Alcohol  
Concen: 50.129 ng  
RT: 7.022 min Scan# 821  
Delta R.T. -0.006 min  
Lab File: BF143817.D  
Acq: 25 Sep 2025 21:50

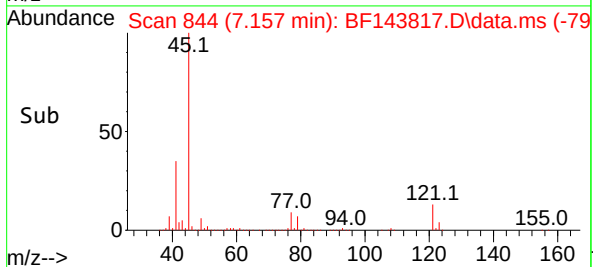
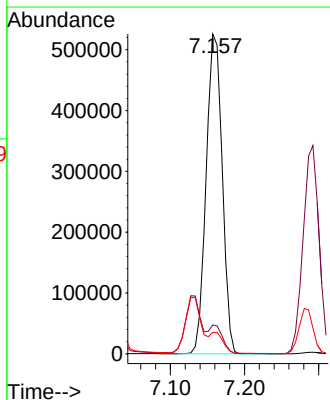
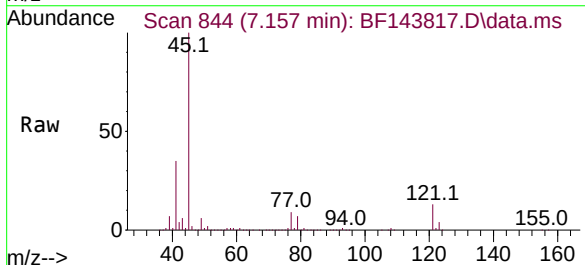
Instrument :  
BNA\_F  
ClientSampleId :  
EME-TS14-01MS

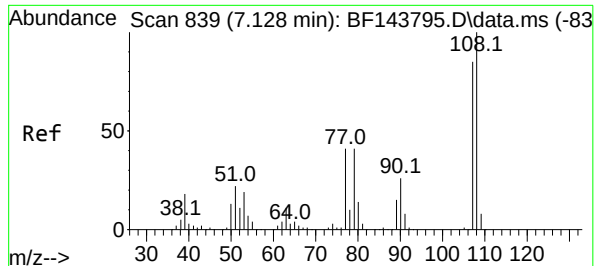
Tgt Ion: 79 Resp: 312277  
Ion Ratio Lower Upper  
79 100  
108 75.9 60.5 90.7  
77 61.9 50.3 75.5



#16  
2,2'-oxybis(1-Chloropropane)  
Concen: 42.394 ng  
RT: 7.157 min Scan# 844  
Delta R.T. -0.000 min  
Lab File: BF143817.D  
Acq: 25 Sep 2025 21:50

Tgt Ion: 45 Resp: 789653  
Ion Ratio Lower Upper  
45 100  
77 9.0 0.0 28.5  
79 6.7 0.0 26.3

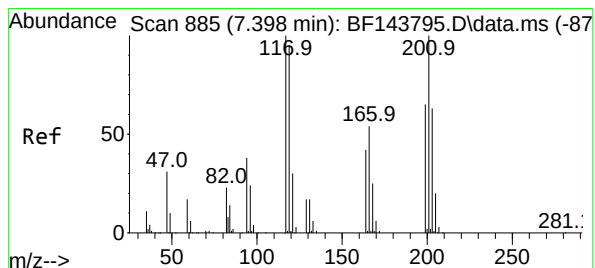
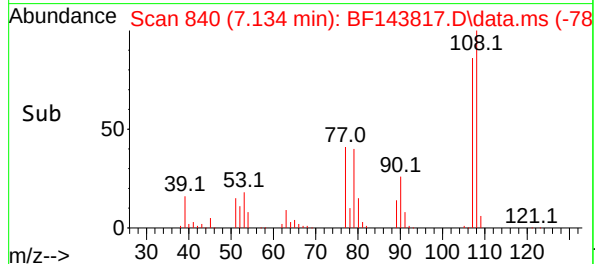
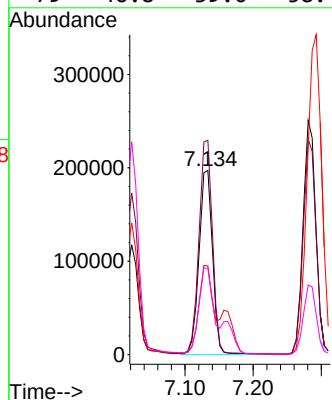
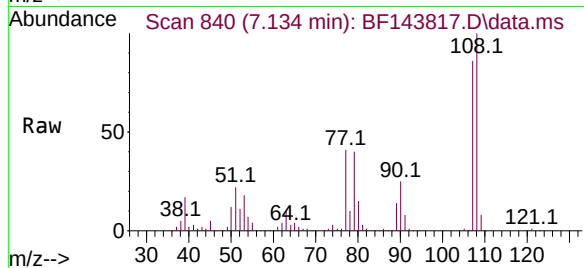




#17  
2-Methylphenol  
Concen: 46.138 ng  
RT: 7.134 min Scan# 840  
Delta R.T. -0.000 min  
Lab File: BF143817.D  
Acq: 25 Sep 2025 21:50

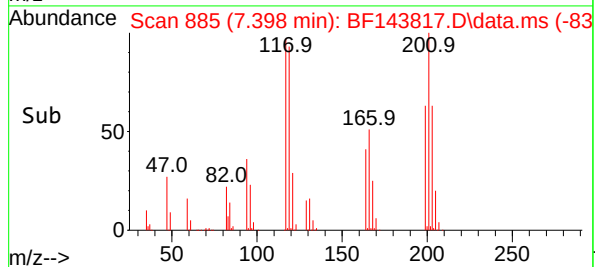
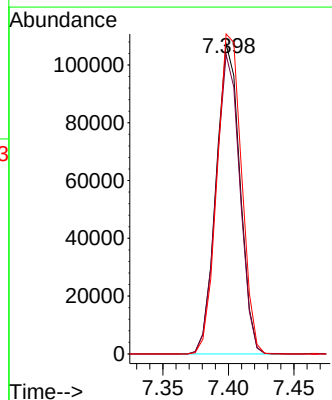
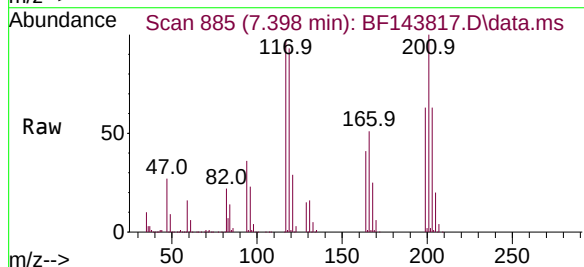
Instrument :  
BNA\_F  
ClientSampleId :  
EME-TS14-01MS

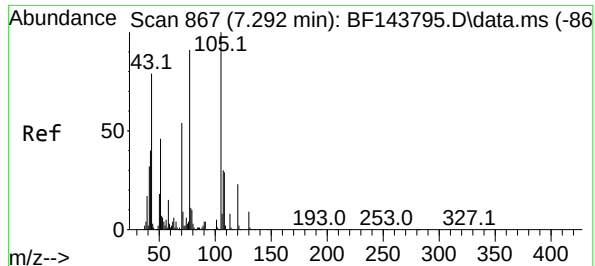
Tgt Ion:107 Resp: 272851  
Ion Ratio Lower Upper  
107 100  
108 116.4 94.2 141.4  
77 48.2 38.6 58.0  
79 46.8 39.0 58.4



#18  
Hexachloroethane  
Concen: 43.671 ng  
RT: 7.398 min Scan# 885  
Delta R.T. -0.006 min  
Lab File: BF143817.D  
Acq: 25 Sep 2025 21:50

Tgt Ion:117 Resp: 135933  
Ion Ratio Lower Upper  
117 100  
119 96.5 76.2 114.2  
201 103.2 79.7 119.5





#19

n-Nitroso-di-n-propylamine

Concen: 44.495 ng

RT: 7.292 min Scan# 867

Delta R.T. -0.012 min

Lab File: BF143817.D

Acq: 25 Sep 2025 21:50

Instrument :

BNA\_F

ClientSampleId :

EME-TS14-01MS

Tgt Ion: 70 Resp: 246676

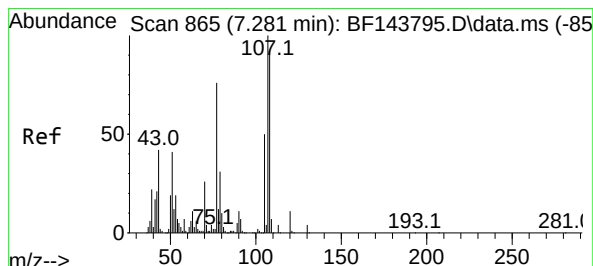
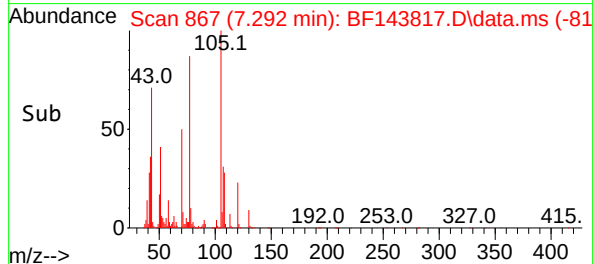
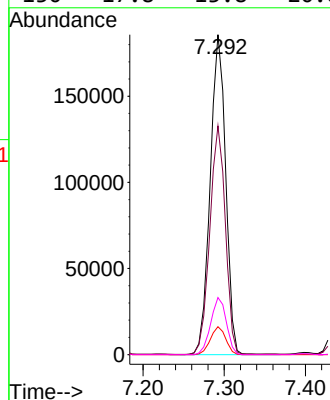
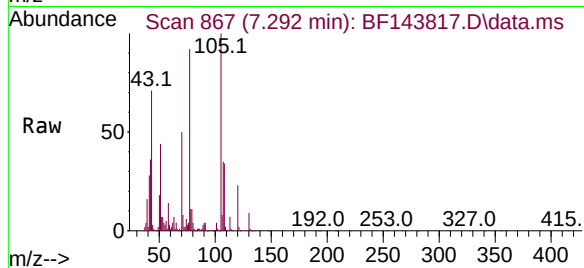
Ion Ratio Lower Upper

70 100

42 71.5 59.4 89.0

101 8.7 7.1 10.7

130 17.8 13.8 20.8



#20

3+4-Methylphenols

Concen: 45.755 ng

RT: 7.281 min Scan# 865

Delta R.T. -0.006 min

Lab File: BF143817.D

Acq: 25 Sep 2025 21:50

Tgt Ion: 107 Resp: 329519

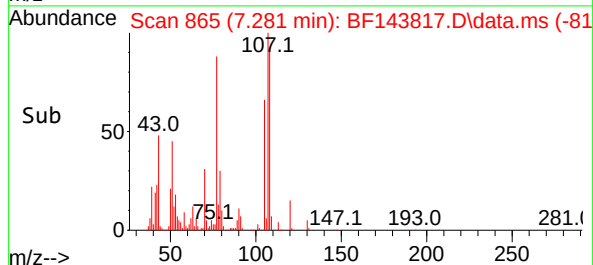
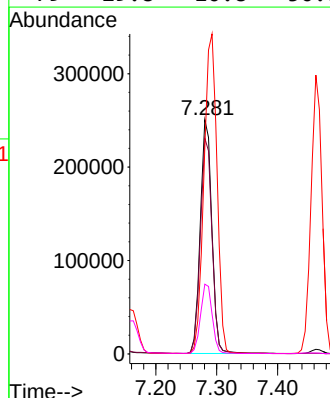
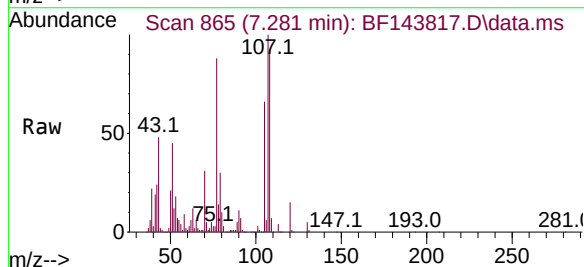
Ion Ratio Lower Upper

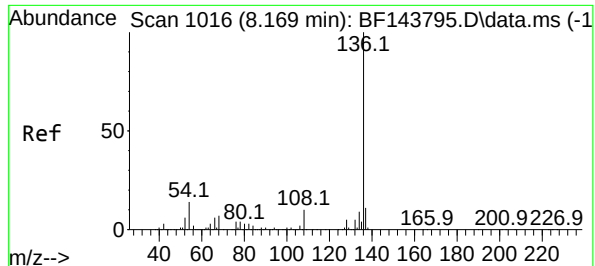
107 100

108 92.1 72.5 112.5

77 88.3 56.2 96.2

79 29.8 10.8 50.8





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.169 min Scan# 10

Delta R.T. -0.000 min

Lab File: BF143817.D

Acq: 25 Sep 2025 21:50

Instrument :

BNA\_F

ClientSampleId :

EME-TS14-01MS

Tgt Ion:136 Resp: 419443

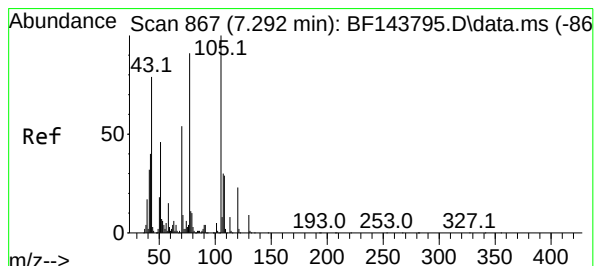
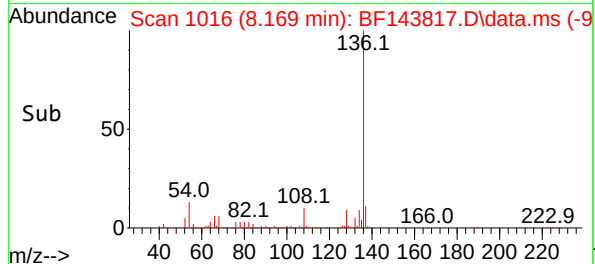
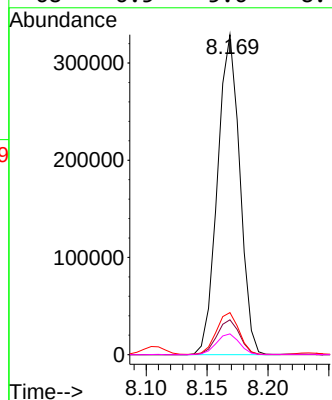
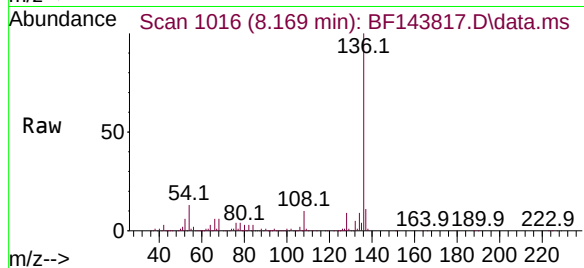
Ion Ratio Lower Upper

136 100

137 10.9 9.0 13.4

54 13.1 11.2 16.8

68 6.5 5.6 8.4



#22

Acetophenone

Concen: 53.844 ng

RT: 7.292 min Scan# 867

Delta R.T. -0.006 min

Lab File: BF143817.D

Acq: 25 Sep 2025 21:50

Tgt Ion:105 Resp: 496044

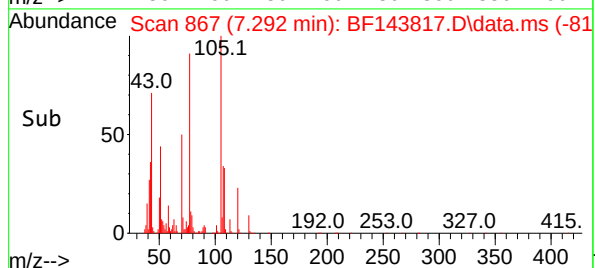
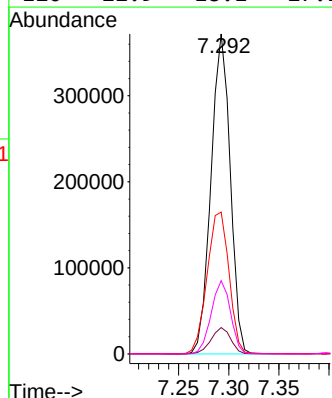
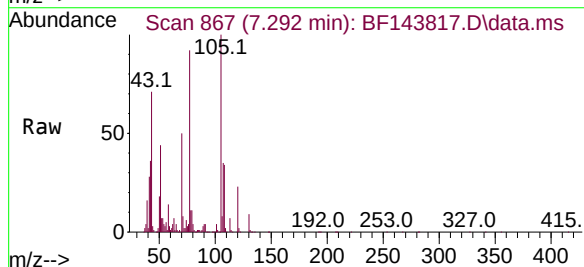
Ion Ratio Lower Upper

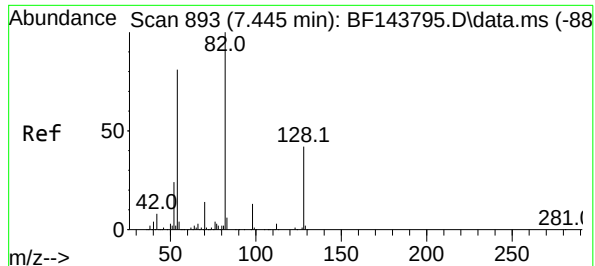
105 100

71 8.3 7.0 10.4

51 44.3 36.6 55.0

120 22.9 18.1 27.1





#23

Nitrobenzene-d5

Concen: 62.594 ng

RT: 7.445 min Scan# 893

Delta R.T. -0.006 min

Lab File: BF143817.D

Acq: 25 Sep 2025 21:50

Instrument :

BNA\_F

ClientSampleId :

EME-TS14-01MS

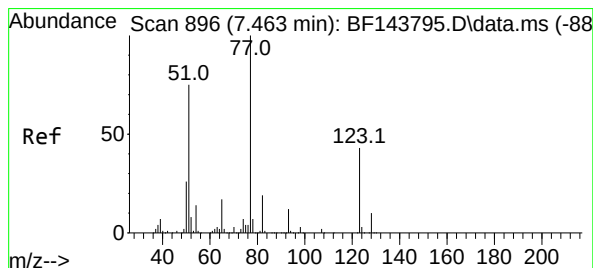
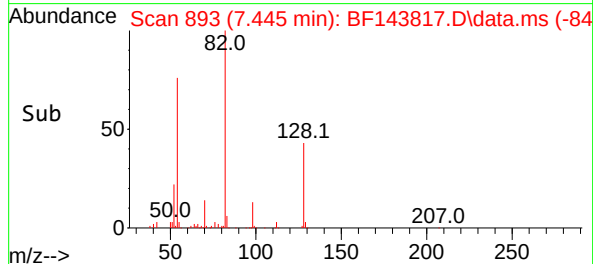
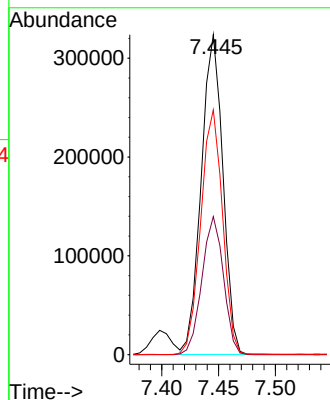
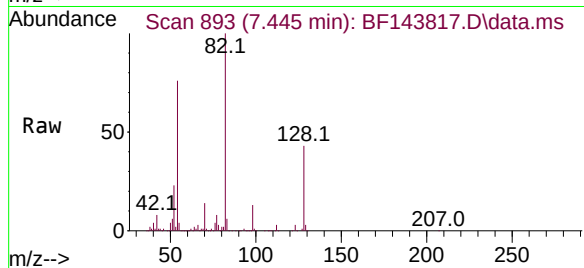
Tgt Ion: 82 Resp: 428919

Ion Ratio Lower Upper

82 100

128 43.1 33.3 49.9

54 76.5 64.2 96.4



#24

Nitrobenzene

Concen: 49.371 ng

RT: 7.463 min Scan# 896

Delta R.T. -0.012 min

Lab File: BF143817.D

Acq: 25 Sep 2025 21:50

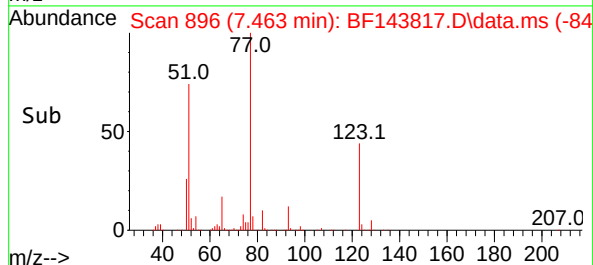
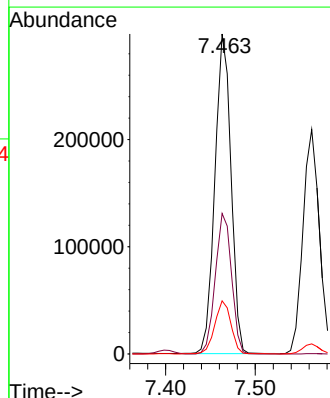
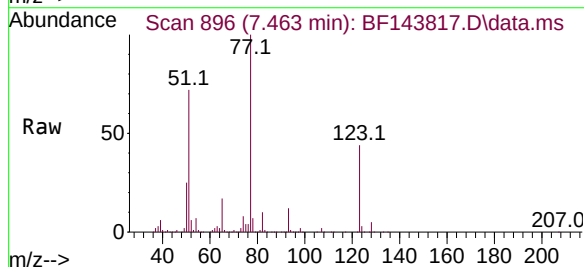
Tgt Ion: 77 Resp: 374991

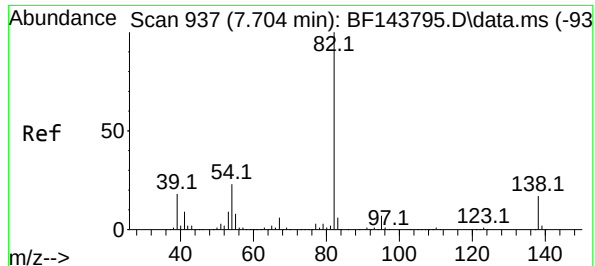
Ion Ratio Lower Upper

77 100

123 43.9 34.0 51.0

65 16.6 13.5 20.3





#25

Isophorone

Concen: 48.975 ng

RT: 7.704 min Scan# 931

Delta R.T. -0.006 min

Lab File: BF143817.D

Acq: 25 Sep 2025 21:50

Instrument :

BNA\_F

ClientSampleId :

EME-TS14-01MS

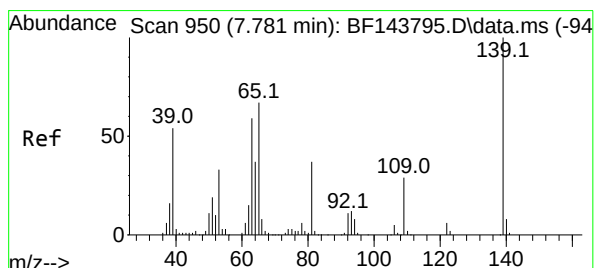
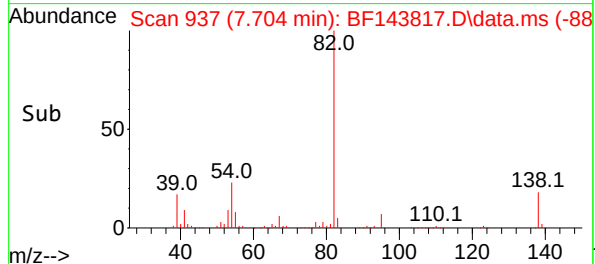
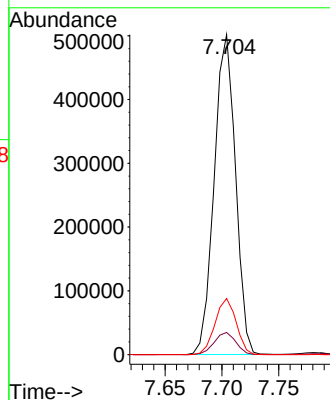
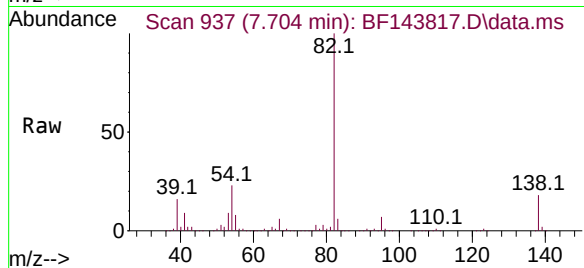
Tgt Ion: 82 Resp: 653967

Ion Ratio Lower Upper

82 100

95 6.9 5.4 8.2

138 17.5 13.7 20.5



#26

2-Nitrophenol

Concen: 52.687 ng

RT: 7.781 min Scan# 950

Delta R.T. -0.005 min

Lab File: BF143817.D

Acq: 25 Sep 2025 21:50

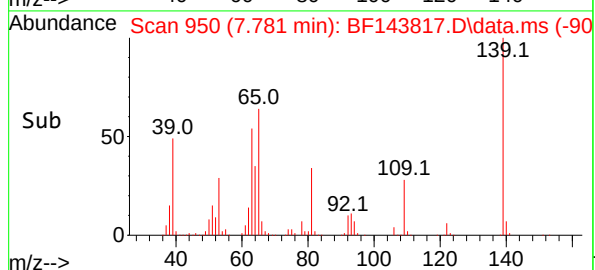
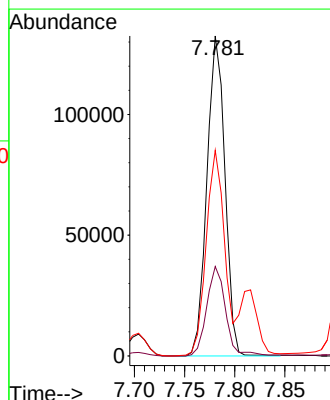
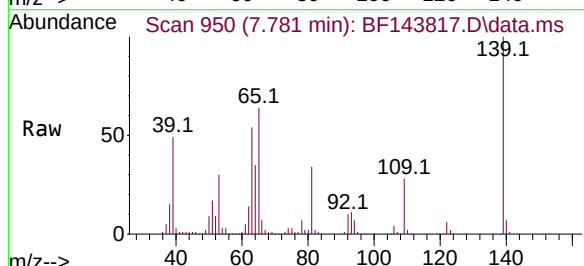
Tgt Ion:139 Resp: 165168

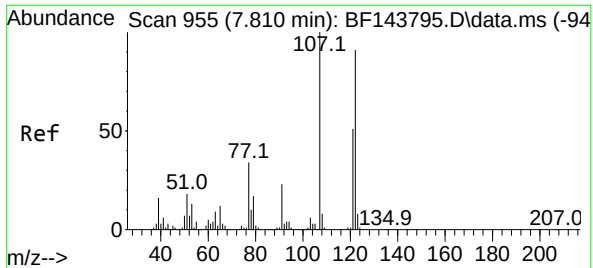
Ion Ratio Lower Upper

139 100

109 27.9 23.3 34.9

65 64.2 53.8 80.6





#27

2,4-Dimethylphenol

Concen: 52.086 ng

RT: 7.816 min Scan# 91

Delta R.T. -0.000 min

Lab File: BF143817.D

Acq: 25 Sep 2025 21:50

Instrument :

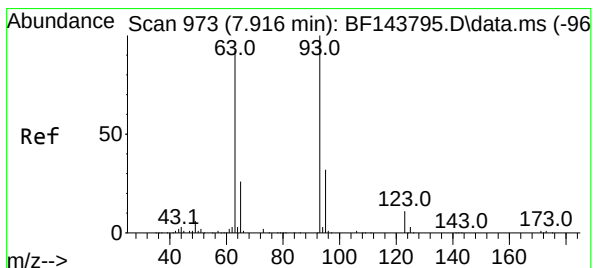
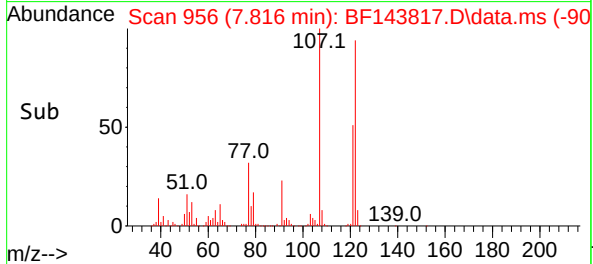
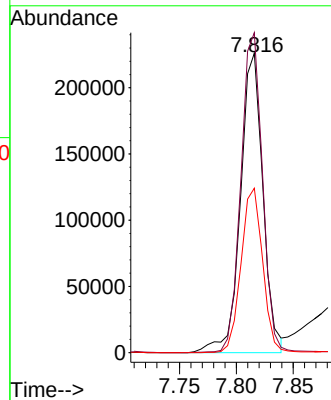
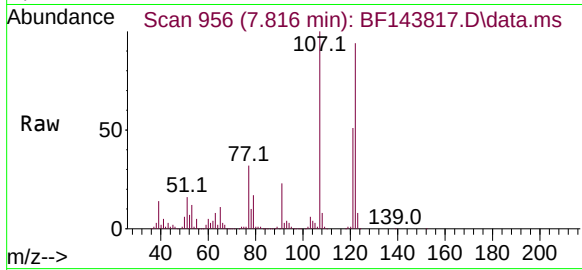
BNA\_F

ClientSampleId :

EME-TS14-01MS

Tgt Ion:122 Resp: 310866

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 122 | 100   |       |       |
| 107 | 106.9 | 87.5  | 131.3 |
| 121 | 54.9  | 44.2  | 66.4  |



#28

bis(2-Chloroethoxy)methane

Concen: 46.185 ng

RT: 7.916 min Scan# 973

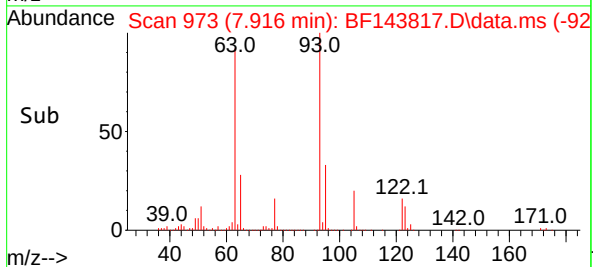
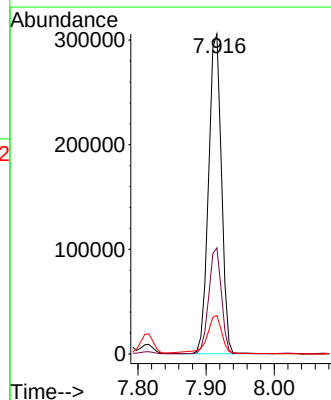
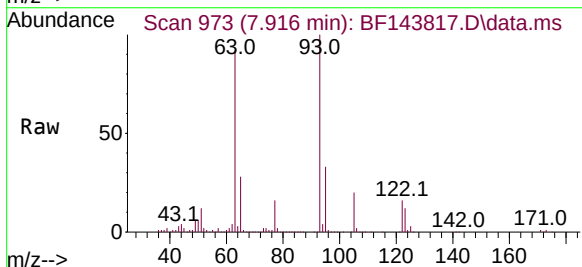
Delta R.T. -0.000 min

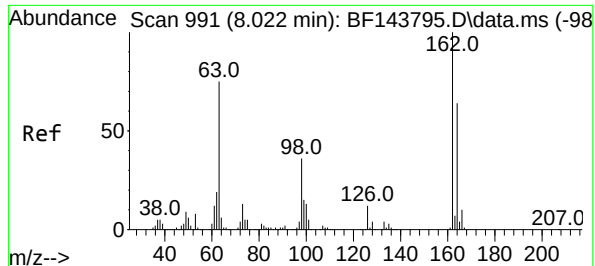
Lab File: BF143817.D

Acq: 25 Sep 2025 21:50

Tgt Ion: 93 Resp: 400670

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 93  | 100   |       |       |
| 95  | 33.1  | 25.8  | 38.8  |
| 123 | 12.0  | 8.8   | 13.2  |





#29

2,4-Dichlorophenol

Concen: 46.125 ng

RT: 8.022 min Scan# 991

Delta R.T. -0.000 min

Lab File: BF143817.D

Acq: 25 Sep 2025 21:50

Instrument :

BNA\_F

ClientSampleId :

EME-TS14-01MS

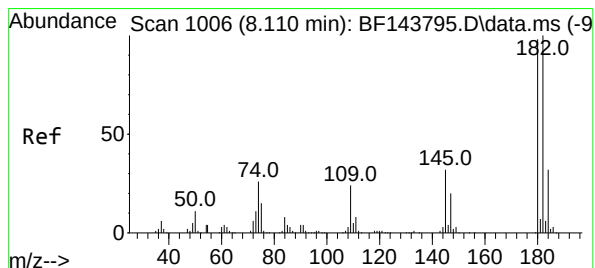
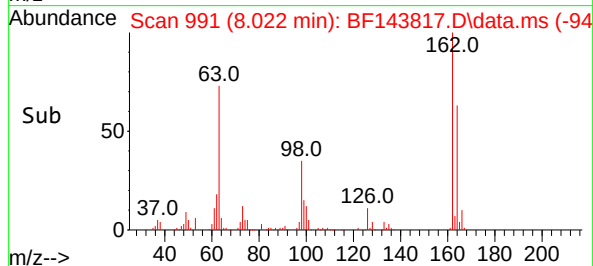
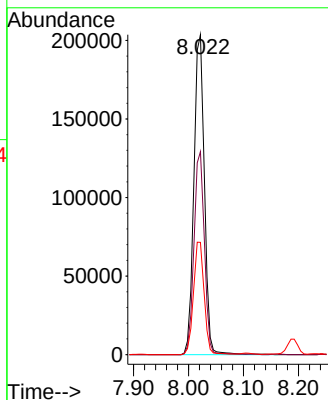
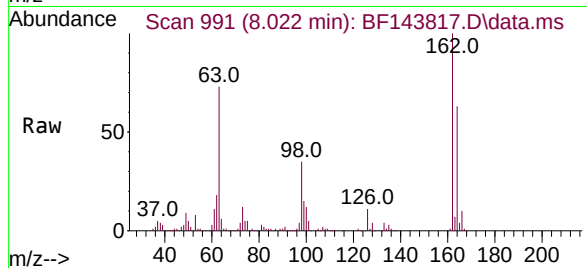
Tgt Ion:162 Resp: 270872

Ion Ratio Lower Upper

162 100

164 63.4 44.1 84.1

98 35.1 15.8 55.8



#30

1,2,4-Trichlorobenzene

Concen: 49.013 ng

RT: 8.110 min Scan# 1006

Delta R.T. -0.000 min

Lab File: BF143817.D

Acq: 25 Sep 2025 21:50

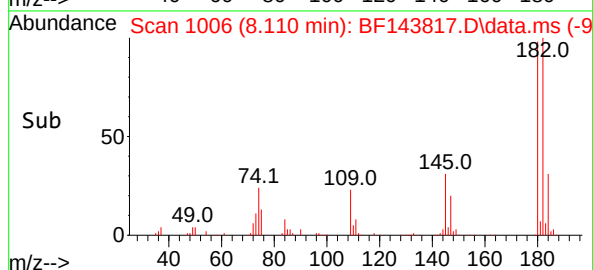
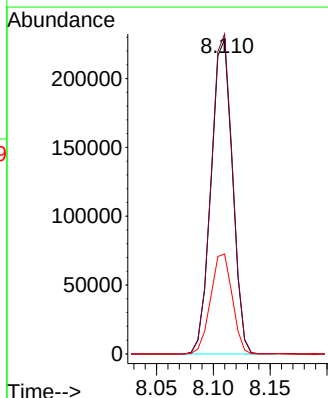
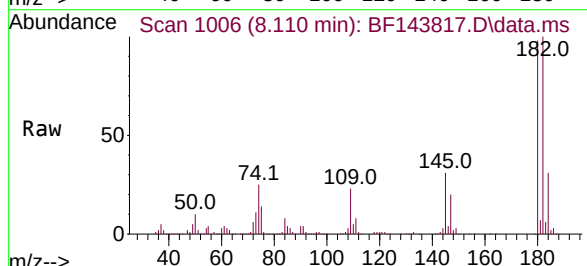
Tgt Ion:180 Resp: 298708

Ion Ratio Lower Upper

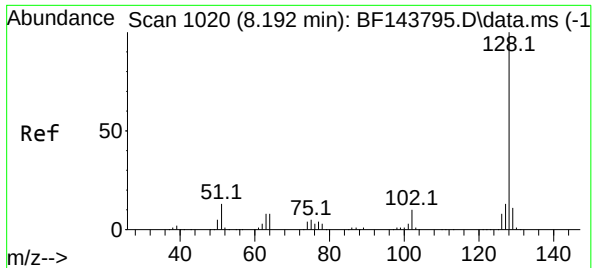
180 100

182 101.7 82.0 123.0

145 31.7 25.9 38.9







#31

Naphthalene

Concen: 45.736 ng

RT: 8.192 min Scan# 10

Delta R.T. -0.000 min

Lab File: BF143817.D

Acq: 25 Sep 2025 21:50

Instrument :

BNA\_F

ClientSampleId :

EME-TS14-01MS

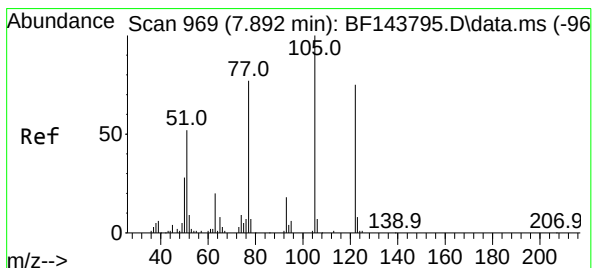
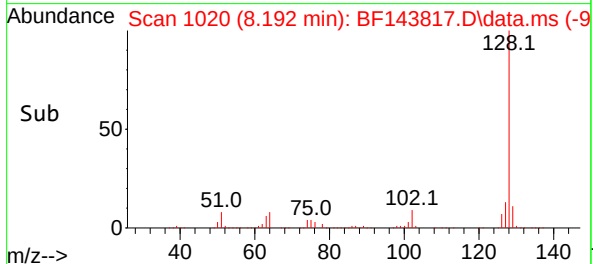
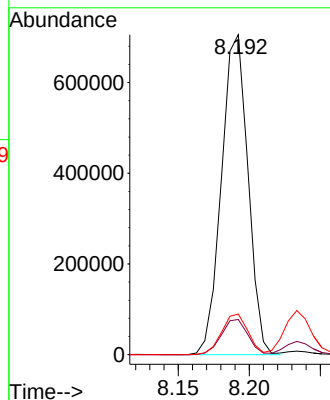
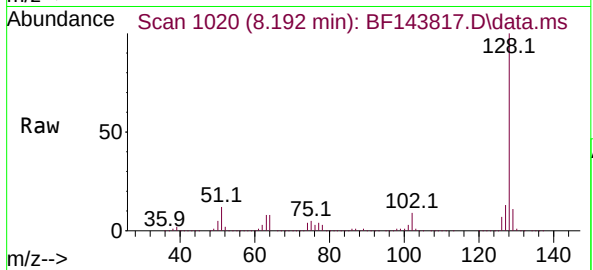
Tgt Ion:128 Resp: 918353

Ion Ratio Lower Upper

128 100

129 11.0 8.8 13.2

127 12.7 10.2 15.4



#32

Benzoic acid

Concen: 65.866 ng

RT: 7.910 min Scan# 972

Delta R.T. -0.012 min

Lab File: BF143817.D

Acq: 25 Sep 2025 21:50

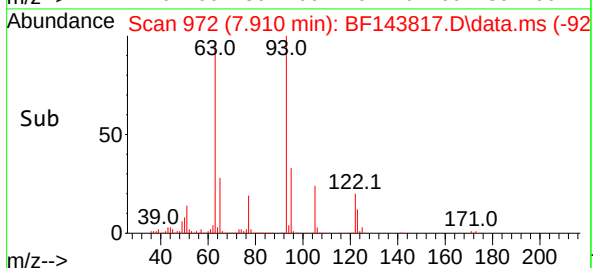
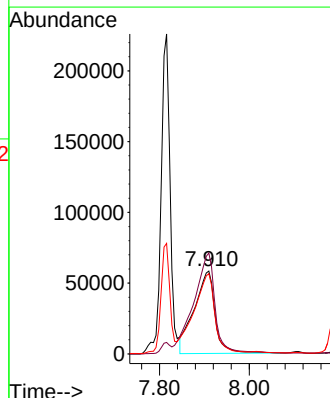
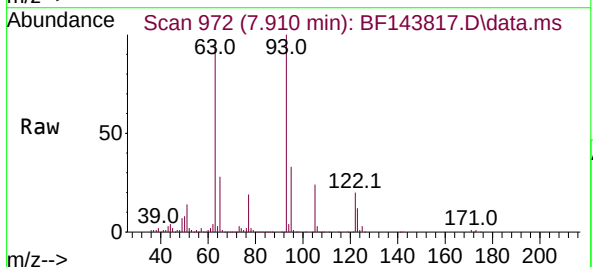
Tgt Ion:122 Resp: 189666

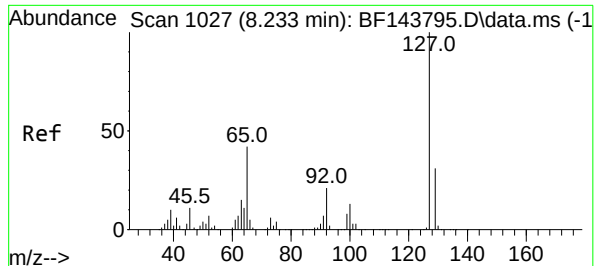
Ion Ratio Lower Upper

122 100

105 121.8 103.7 143.7

77 96.9 78.8 118.8





#33

4-Chloroaniline

Concen: 18.335 ng

RT: 8.233 min Scan# 1027

Delta R.T. -0.006 min

Lab File: BF143817.D

Acq: 25 Sep 2025 21:50

Instrument :

BNA\_F

ClientSampleId :

EME-TS14-01MS

Tgt Ion:127 Resp: 129374

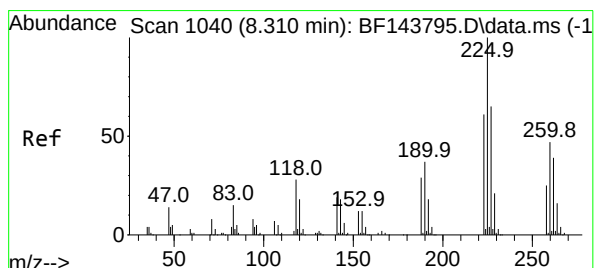
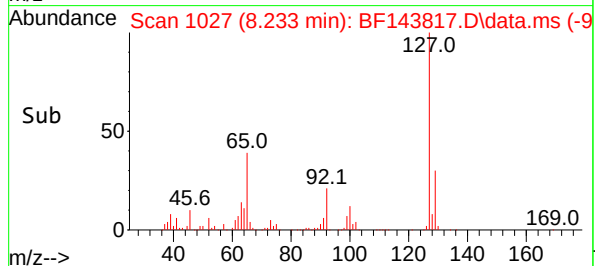
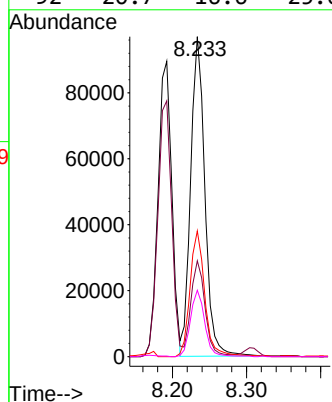
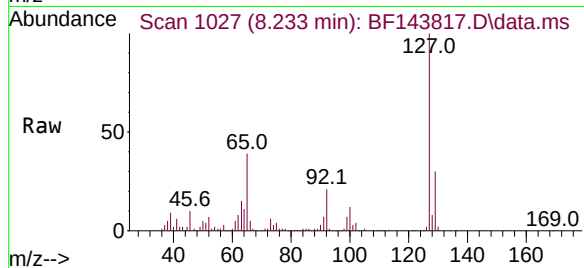
Ion Ratio Lower Upper

127 100

129 30.0 25.4 38.2

65 39.3 33.4 50.2

92 20.7 16.6 25.0



#34

Hexachlorobutadiene

Concen: 45.693 ng

RT: 8.310 min Scan# 1040

Delta R.T. -0.000 min

Lab File: BF143817.D

Acq: 25 Sep 2025 21:50

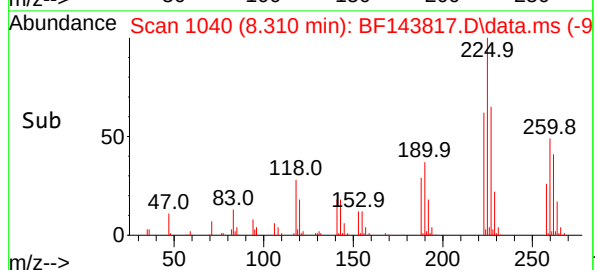
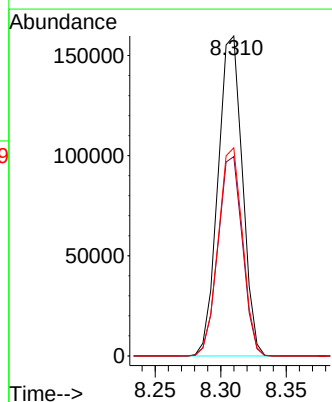
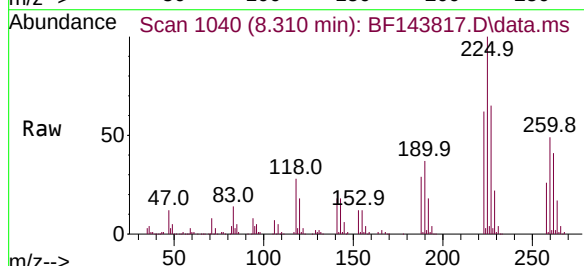
Tgt Ion:225 Resp: 207595

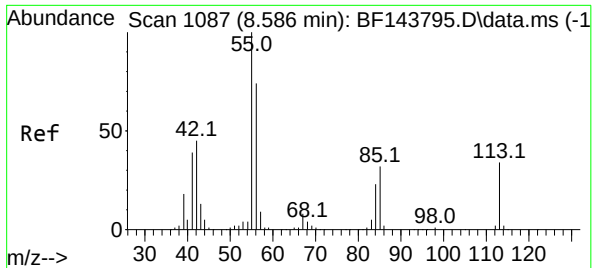
Ion Ratio Lower Upper

225 100

223 62.3 48.6 72.8

227 65.0 51.9 77.9

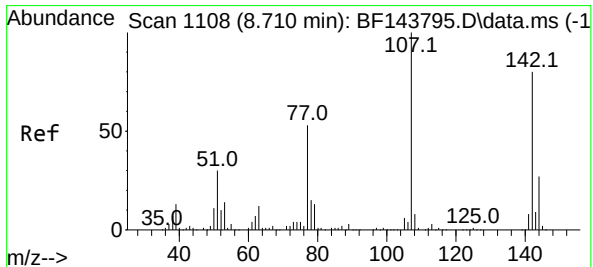
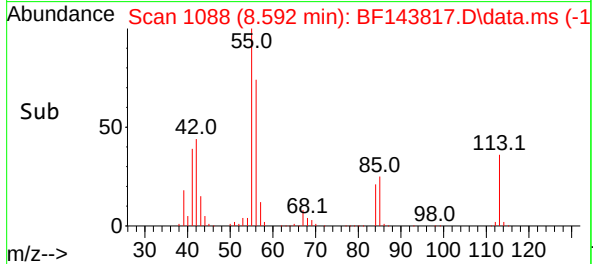
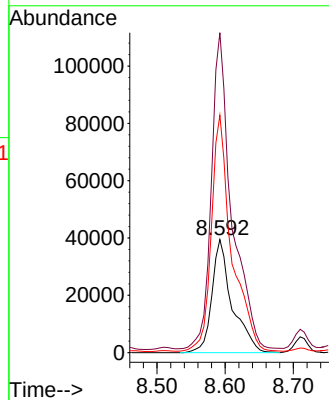
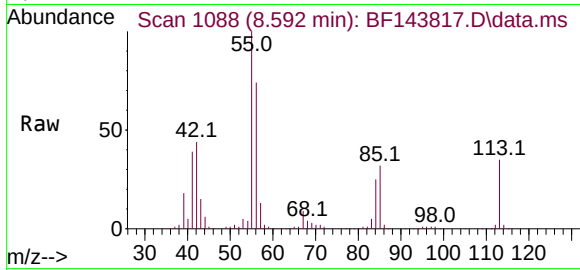




#35  
Caprolactam  
Concen: 54.068 ng  
RT: 8.592 min Scan# 1087  
Delta R.T. -0.018 min  
Lab File: BF143817.D  
Acq: 25 Sep 2025 21:50

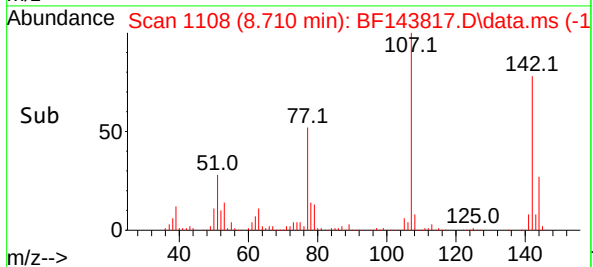
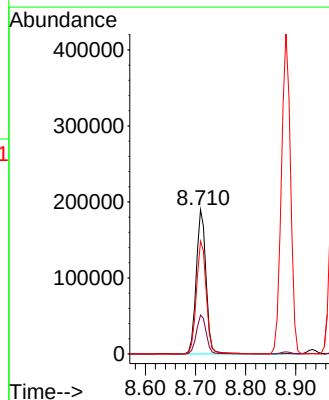
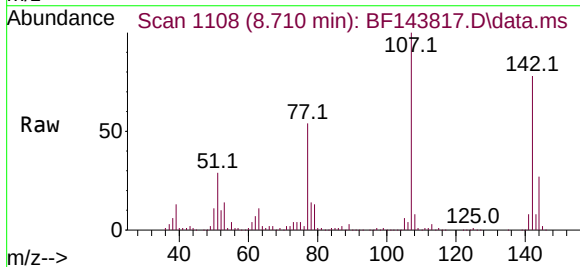
Instrument :  
BNA\_F  
ClientSampleId :  
EME-TS14-01MS

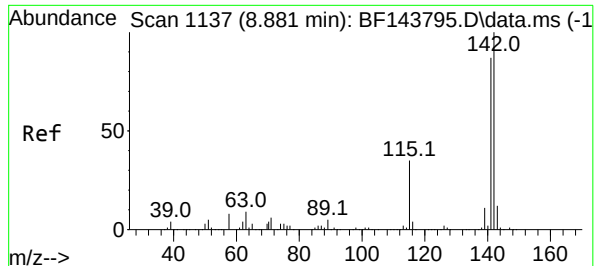
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 55      | 283.3 | 271.7 | 311.7 |
| 56      | 210.1 | 194.5 | 234.5 |



#36  
4-Chloro-3-methylphenol  
Concen: 46.673 ng  
RT: 8.710 min Scan# 1108  
Delta R.T. -0.000 min  
Lab File: BF143817.D  
Acq: 25 Sep 2025 21:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 107     | 100   |       |       |
| 144     | 27.0  | 21.8  | 32.8  |
| 142     | 78.1  | 63.6  | 95.4  |





#37

2-Methylnaphthalene

Concen: 41.467 ng

RT: 8.880 min Scan# 1137

Delta R.T. -0.000 min

Lab File: BF143817.D

Acq: 25 Sep 2025 21:50

Instrument :

BNA\_F

ClientSampleId :

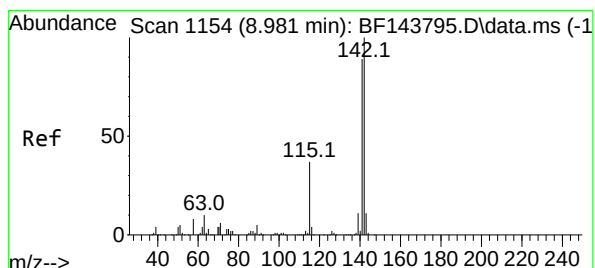
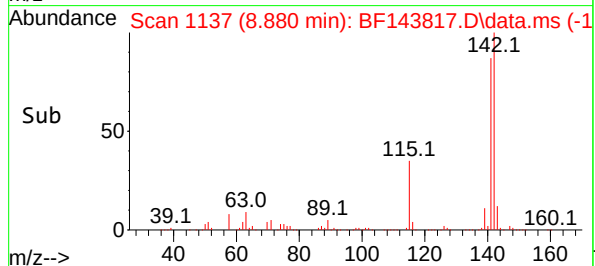
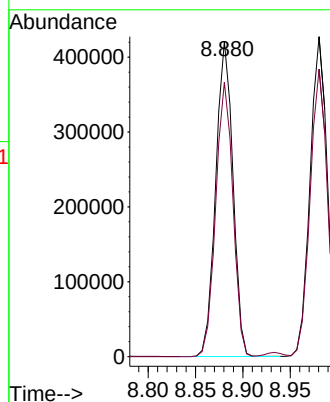
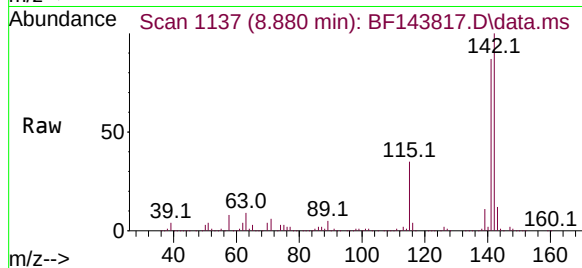
EME-TS14-01MS

Tgt Ion:142 Resp: 530930

Ion Ratio Lower Upper

142 100

141 87.1 69.4 104.0



#38

1-Methylnaphthalene

Concen: 43.757 ng

RT: 8.980 min Scan# 1154

Delta R.T. -0.000 min

Lab File: BF143817.D

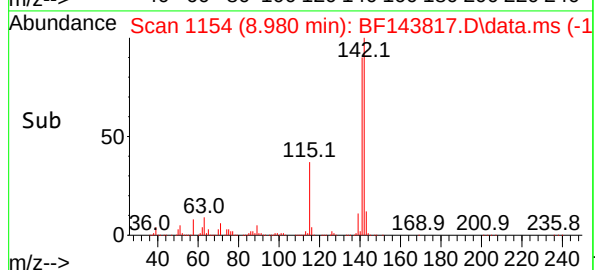
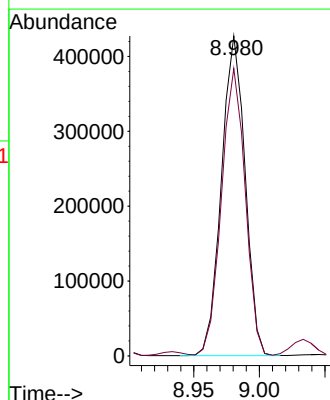
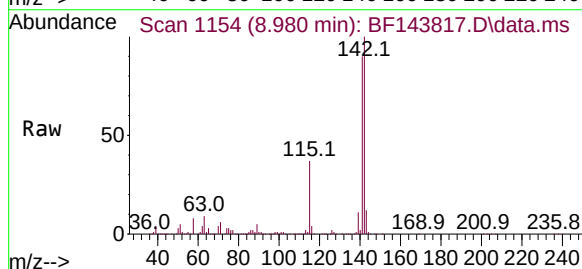
Acq: 25 Sep 2025 21:50

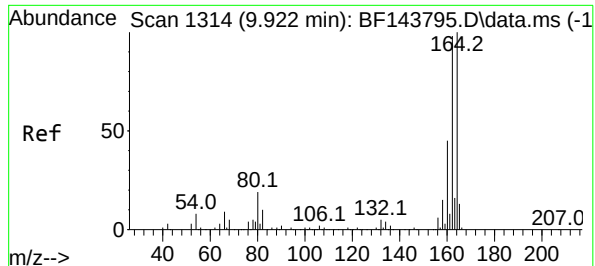
Tgt Ion:142 Resp: 536240

Ion Ratio Lower Upper

142 100

141 89.8 71.1 106.7





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.922 min Scan# 1314

Delta R.T. -0.006 min

Lab File: BF143817.D

Acq: 25 Sep 2025 21:50

Instrument :

BNA\_F

ClientSampleId :

EME-TS14-01MS

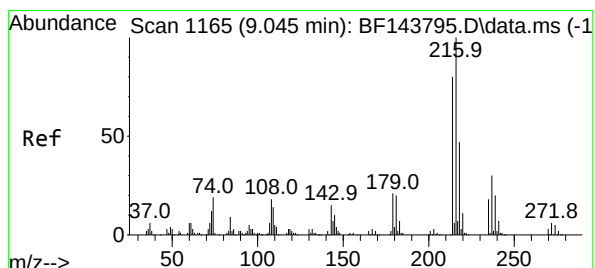
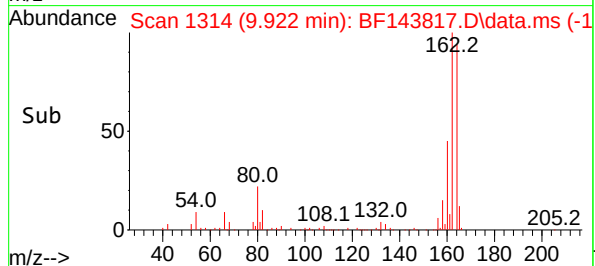
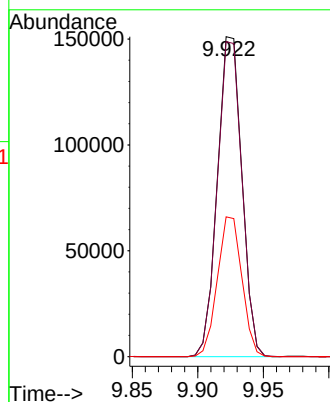
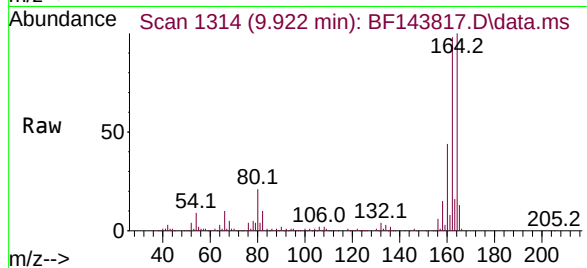
Tgt Ion:164 Resp: 197016

Ion Ratio Lower Upper

164 100

162 98.4 78.8 118.2

160 43.7 35.8 53.6



#40

1,2,4,5-Tetrachlorobenzene

Concen: 51.818 ng

RT: 9.045 min Scan# 1165

Delta R.T. -0.006 min

Lab File: BF143817.D

Acq: 25 Sep 2025 21:50

Tgt Ion:216 Resp: 308089

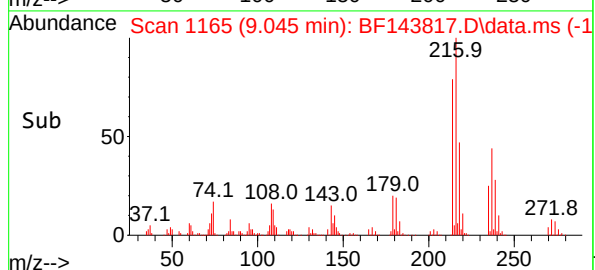
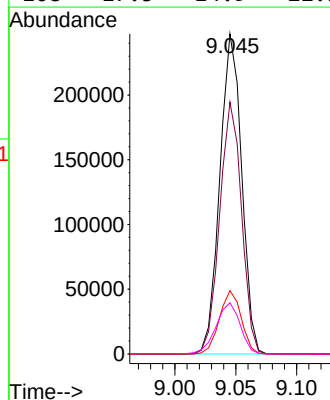
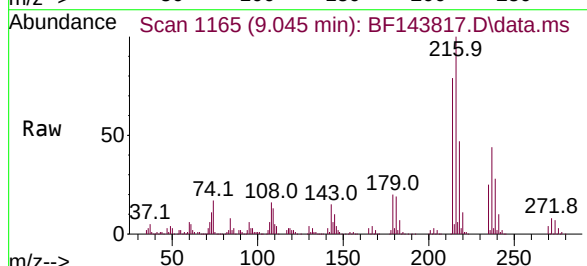
Ion Ratio Lower Upper

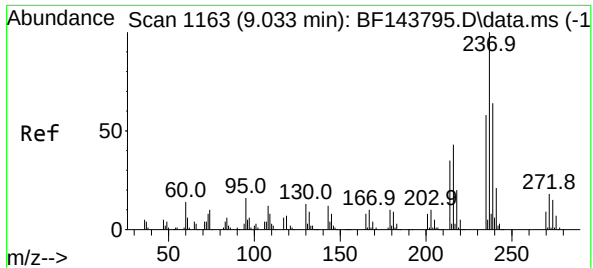
216 100

214 78.5 63.7 95.5

179 19.7 16.5 24.7

108 17.5 14.9 22.3

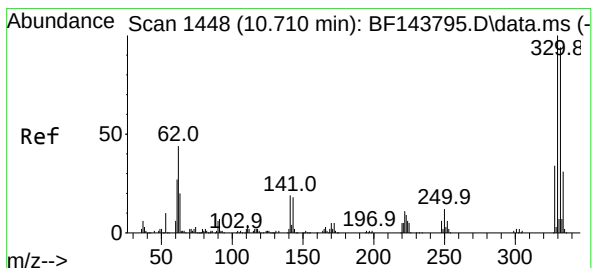
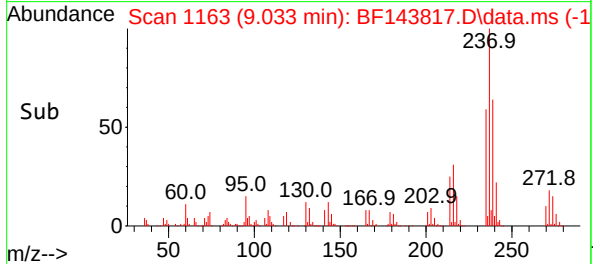
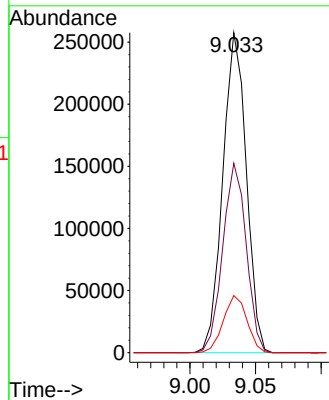
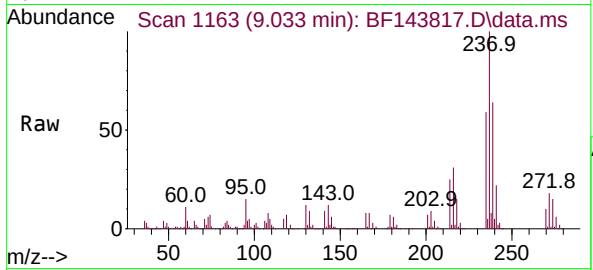




#41  
Hexachlorocyclopentadiene  
Concen: 85.324 ng  
RT: 9.033 min Scan# 1163  
Delta R.T. -0.006 min  
Lab File: BF143817.D  
Acq: 25 Sep 2025 21:50

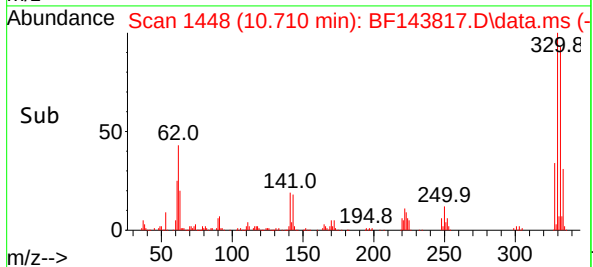
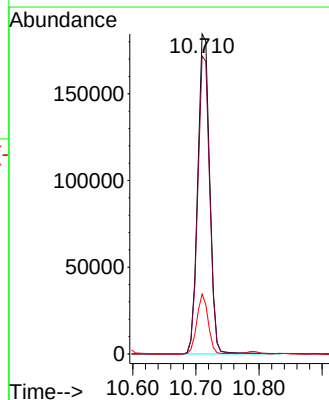
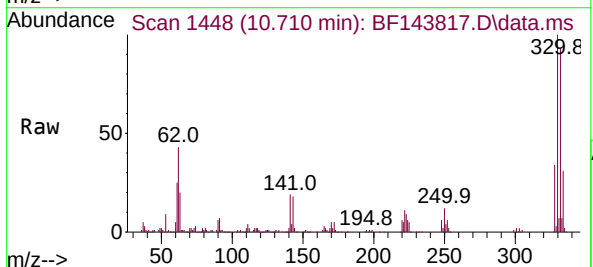
Instrument :  
BNA\_F  
ClientSampleId :  
EME-TS14-01MS

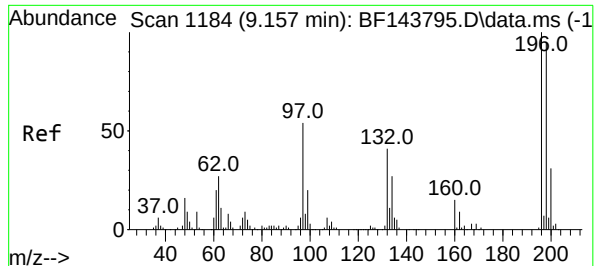
Tgt Ion:237 Resp: 321513  
Ion Ratio Lower Upper  
237 100  
235 59.2 38.1 78.1  
272 17.8 0.0 37.9



#42  
2,4,6-Tribromophenol  
Concen: 83.176 ng  
RT: 10.710 min Scan# 1448  
Delta R.T. -0.006 min  
Lab File: BF143817.D  
Acq: 25 Sep 2025 21:50

Tgt Ion:330 Resp: 242635  
Ion Ratio Lower Upper  
330 100  
332 93.1 74.7 112.1  
141 17.7 14.3 21.5





#43

2,4,6-Trichlorophenol

Concen: 51.756 ng

RT: 9.157 min Scan# 1184

Delta R.T. -0.000 min

Lab File: BF143817.D

Acq: 25 Sep 2025 21:50

Instrument :

BNA\_F

ClientSampleId :

EME-TS14-01MS

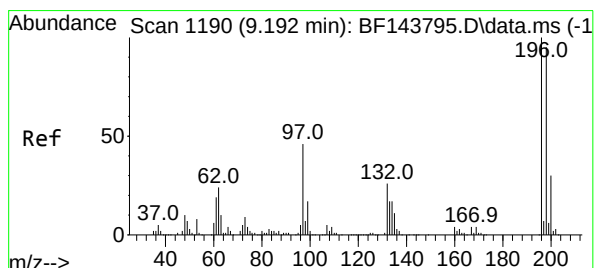
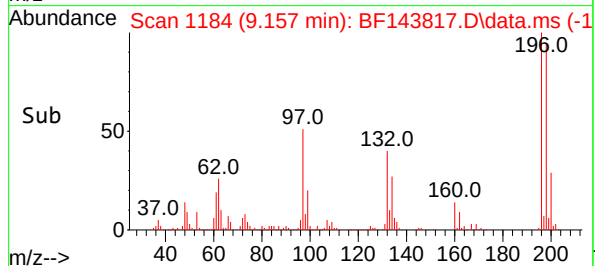
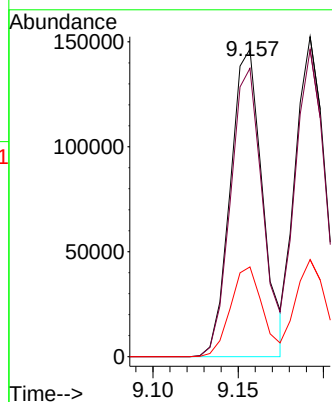
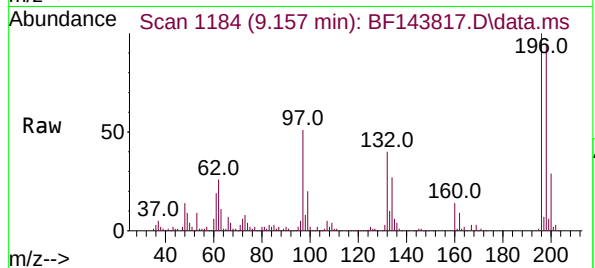
Tgt Ion:196 Resp: 192682

Ion Ratio Lower Upper

196 100

198 93.8 76.2 114.2

200 29.1 24.7 37.1



#44

2,4,5-Trichlorophenol

Concen: 48.183 ng

RT: 9.192 min Scan# 1190

Delta R.T. 0.000 min

Lab File: BF143817.D

Acq: 25 Sep 2025 21:50

Tgt Ion:196 Resp: 187630

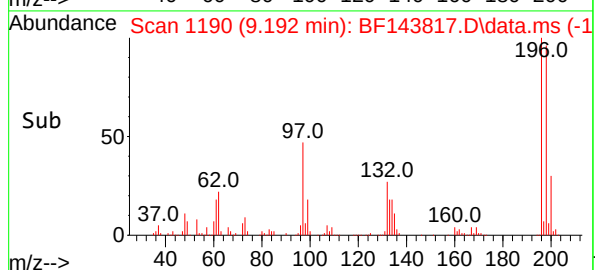
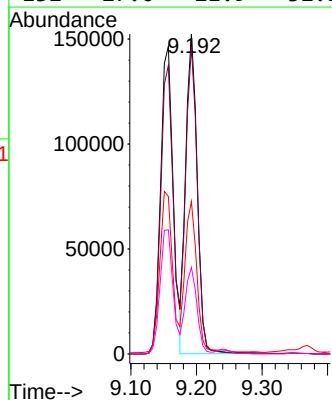
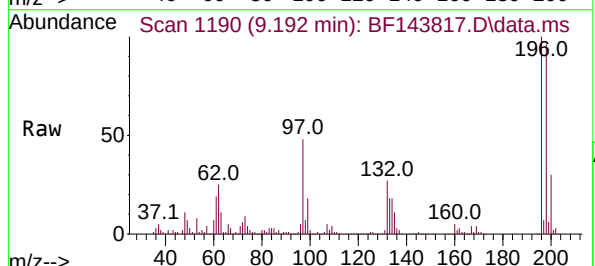
Ion Ratio Lower Upper

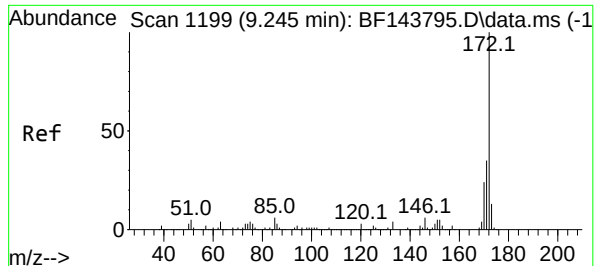
196 100

198 96.0 75.9 113.9

97 47.6 38.3 57.5

132 27.0 21.9 32.9





#45

2-Fluorobiphenyl

Concen: 49.831 ng

RT: 9.239 min Scan# 1199

Delta R.T. -0.006 min

Lab File: BF143817.D

Acq: 25 Sep 2025 21:50

Instrument :

BNA\_F

ClientSampleId :

EME-TS14-01MS

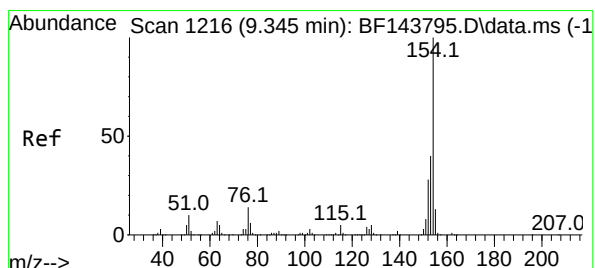
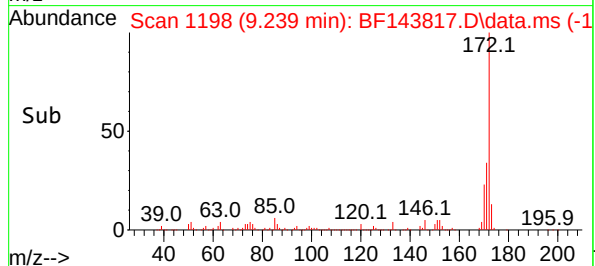
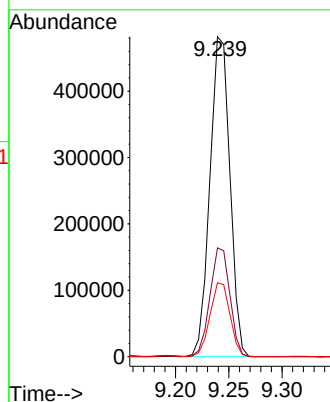
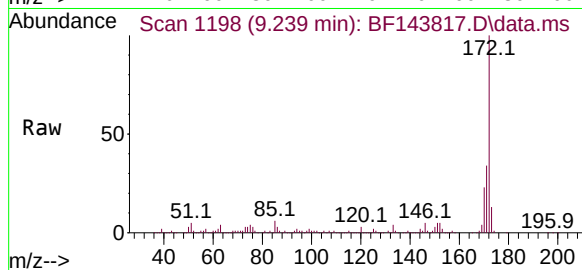
Tgt Ion:172 Resp: 629128

Ion Ratio Lower Upper

172 100

171 34.0 27.9 41.9

170 23.1 19.1 28.7



#46

1,1'-Biphenyl

Concen: 51.265 ng

RT: 9.345 min Scan# 1216

Delta R.T. 0.000 min

Lab File: BF143817.D

Acq: 25 Sep 2025 21:50

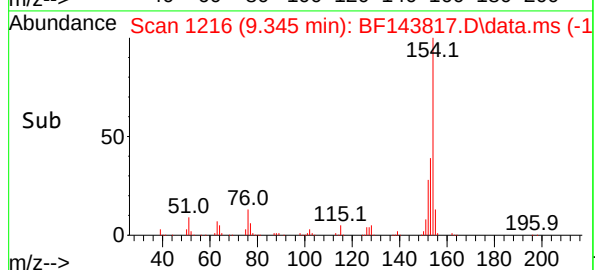
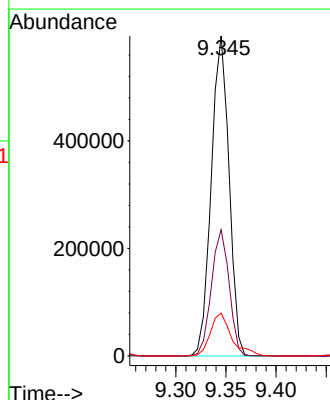
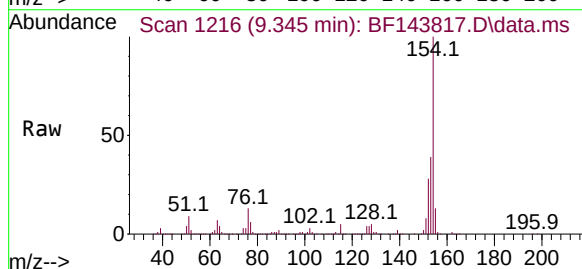
Tgt Ion:154 Resp: 731116

Ion Ratio Lower Upper

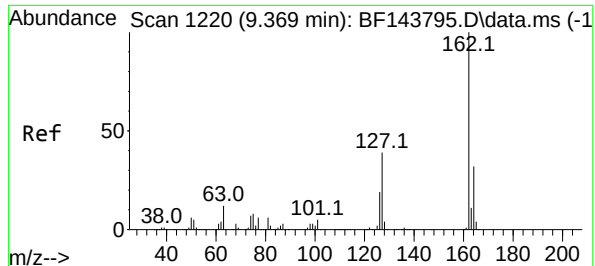
154 100

153 39.4 19.7 59.7

76 13.4 0.0 33.8







#47

2-Chloronaphthalene

Concen: 46.202 ng

RT: 9.369 min Scan# 1220

Delta R.T. -0.006 min

Lab File: BF143817.D

Acq: 25 Sep 2025 21:50

Instrument :

BNA\_F

ClientSampleId :

EME-TS14-01MS

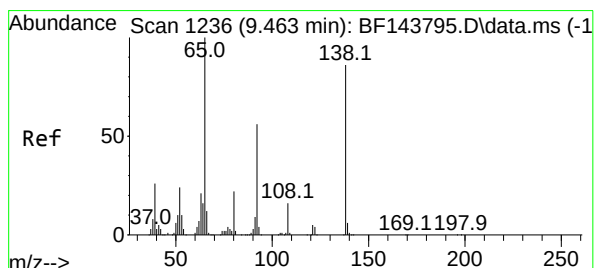
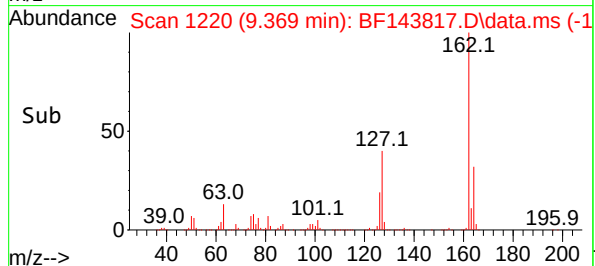
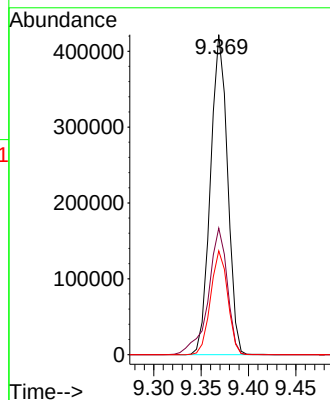
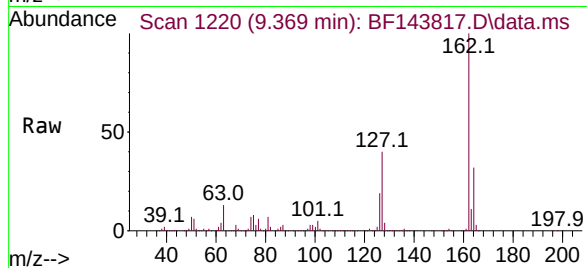
Tgt Ion:162 Resp: 530383

Ion Ratio Lower Upper

162 100

127 39.5 31.5 47.3

164 32.4 25.9 38.9



#48

2-Nitroaniline

Concen: 56.826 ng

RT: 9.463 min Scan# 1236

Delta R.T. -0.000 min

Lab File: BF143817.D

Acq: 25 Sep 2025 21:50

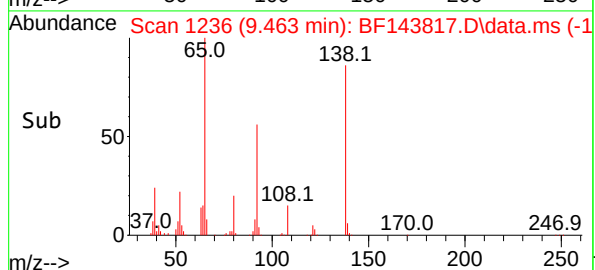
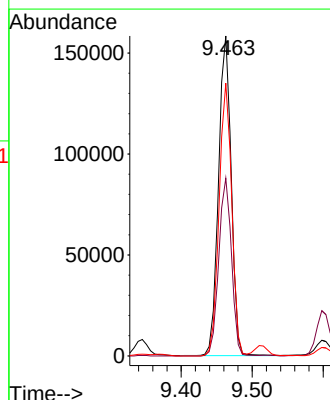
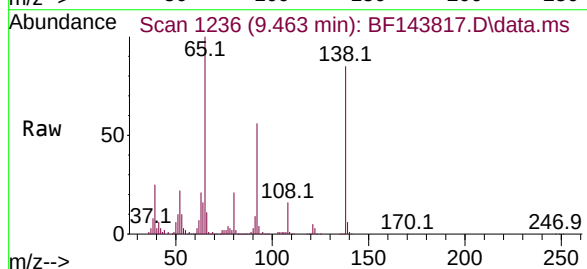
Tgt Ion: 65 Resp: 197163

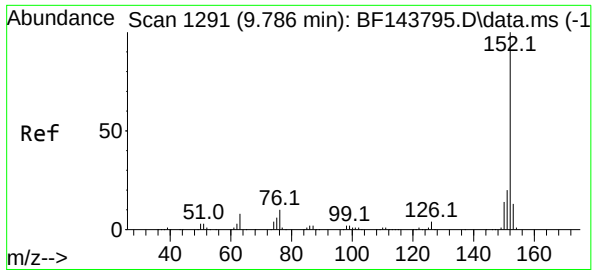
Ion Ratio Lower Upper

65 100

92 55.5 44.9 67.3

138 85.2 69.0 103.4





#49

Acenaphthylene

Concen: 53.101 ng

RT: 9.786 min Scan# 1291

Delta R.T. -0.000 min

Lab File: BF143817.D

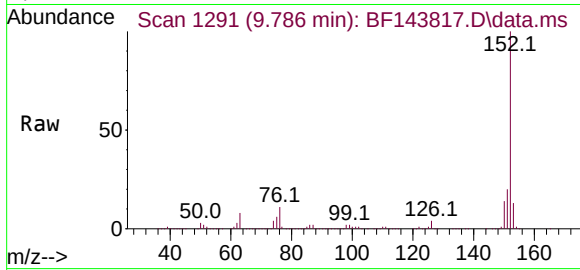
Acq: 25 Sep 2025 21:50

Instrument :

BNA\_F

ClientSampleId :

EME-TS14-01MS



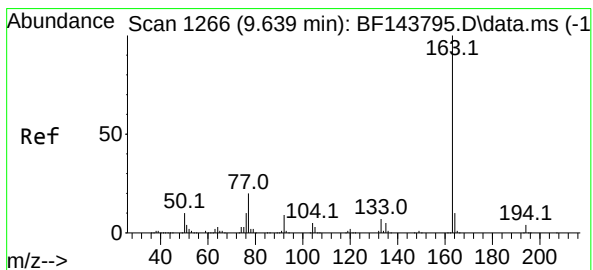
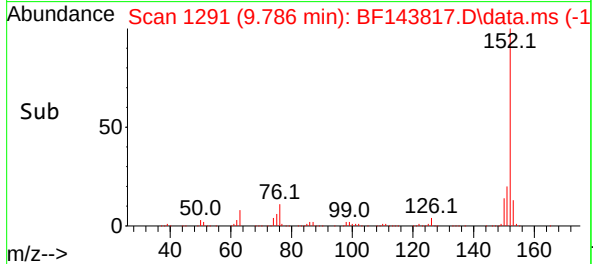
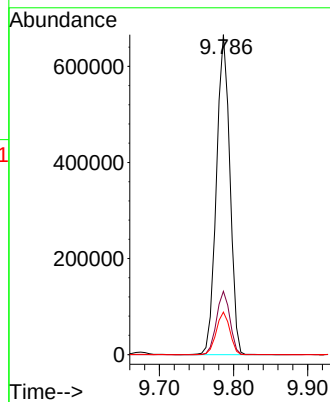
Tgt Ion:152 Resp: 839183

Ion Ratio Lower Upper

152 100

151 19.8 15.7 23.5

153 13.3 10.6 15.8



#50

Dimethylphthalate

Concen: 49.503 ng

RT: 9.639 min Scan# 1266

Delta R.T. -0.000 min

Lab File: BF143817.D

Acq: 25 Sep 2025 21:50

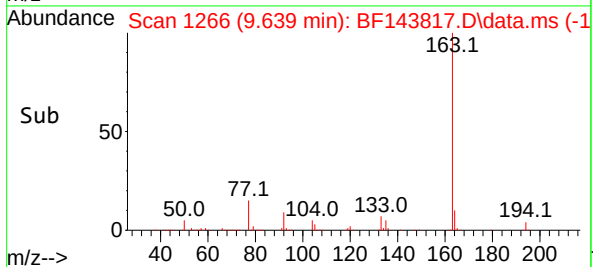
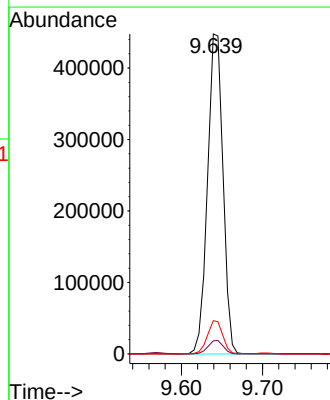
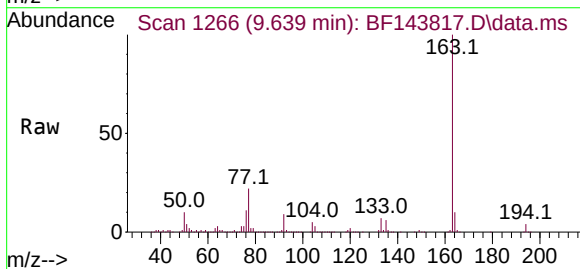
Tgt Ion:163 Resp: 594435

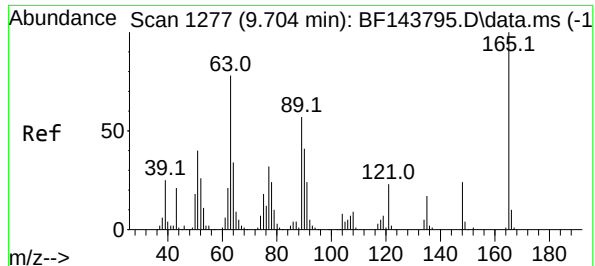
Ion Ratio Lower Upper

163 100

194 4.1 3.0 4.6

164 10.4 8.2 12.2

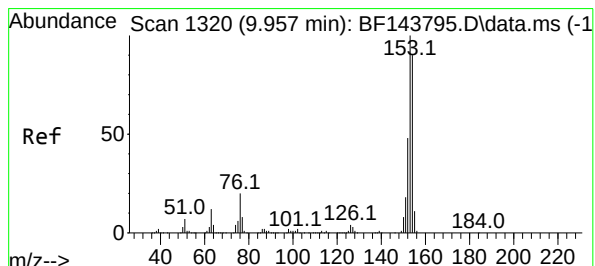
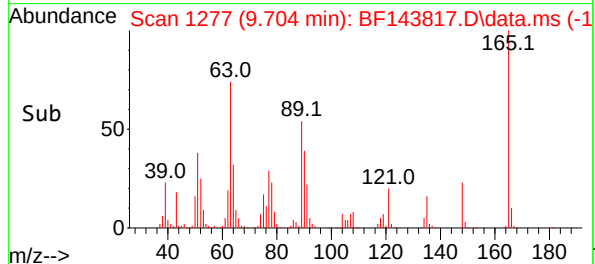
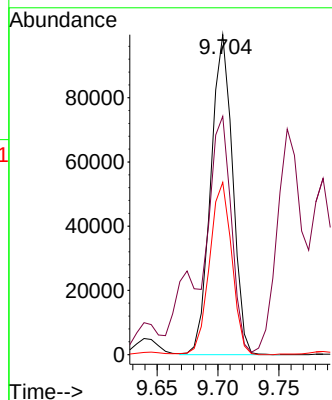
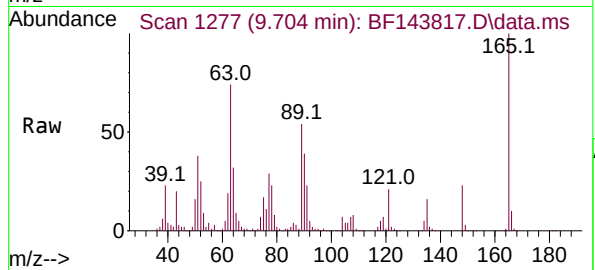




#51  
2,6-Dinitrotoluene  
Concen: 62.825 ng  
RT: 9.704 min Scan# 1277  
Delta R.T. -0.000 min  
Lab File: BF143817.D  
Acq: 25 Sep 2025 21:50

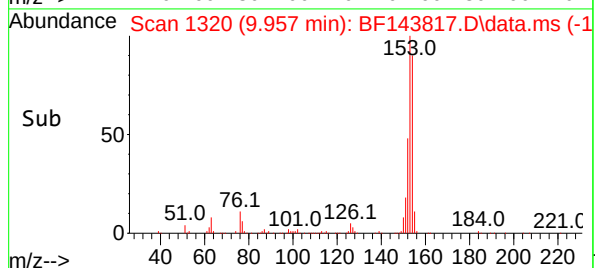
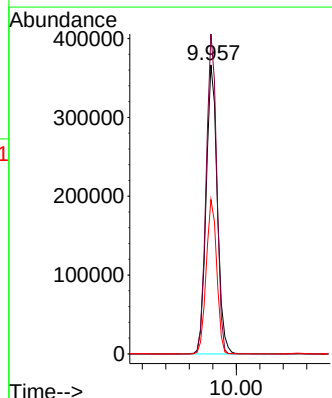
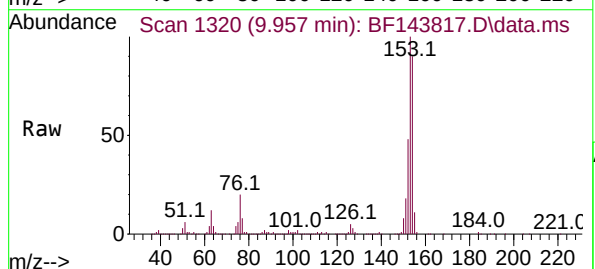
Instrument :  
BNA\_F  
ClientSampleId :  
EME-TS14-01MS

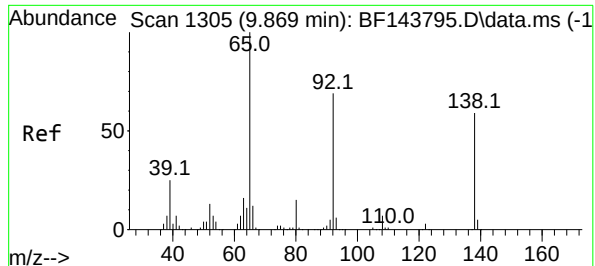
Tgt Ion:165 Resp: 123949  
Ion Ratio Lower Upper  
165 100  
63 74.5 62.6 94.0  
89 53.8 45.2 67.8



#52  
Acenaphthene  
Concen: 46.485 ng  
RT: 9.957 min Scan# 1320  
Delta R.T. -0.006 min  
Lab File: BF143817.D  
Acq: 25 Sep 2025 21:50

Tgt Ion:154 Resp: 483438  
Ion Ratio Lower Upper  
154 100  
153 110.7 88.7 133.1  
152 53.4 42.7 64.1





#53

3-Nitroaniline

Concen: 38.126 ng

RT: 9.869 min Scan# 1305

Delta R.T. -0.006 min

Lab File: BF143817.D

Acq: 25 Sep 2025 21:50

Instrument :

BNA\_F

ClientSampleId :

EME-TS14-01MS

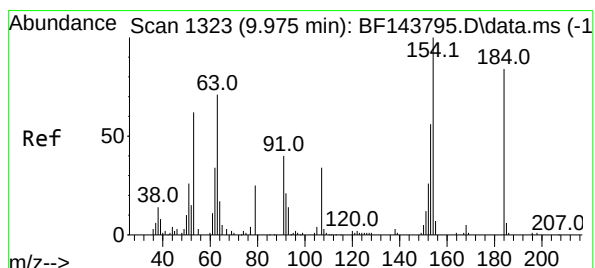
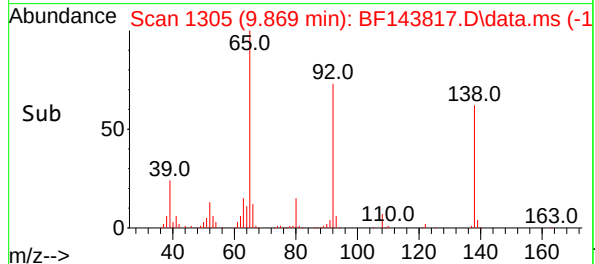
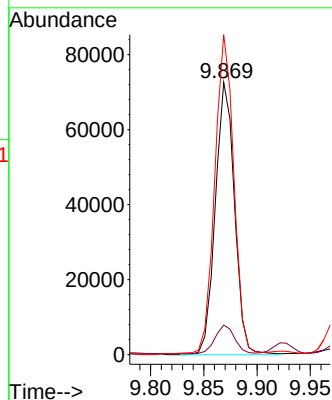
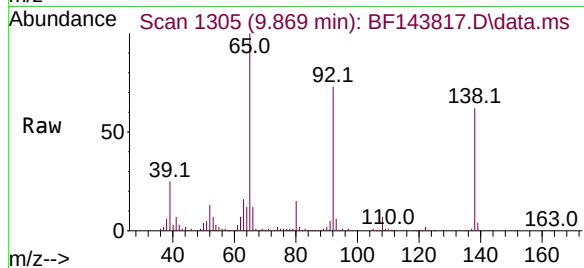
Tgt Ion:138 Resp: 91177

Ion Ratio Lower Upper

138 100

108 10.9 9.9 14.9

92 117.5 93.5 140.3



#54

2,4-Dinitrophenol

Concen: 63.893 ng

RT: 9.975 min Scan# 1323

Delta R.T. -0.000 min

Lab File: BF143817.D

Acq: 25 Sep 2025 21:50

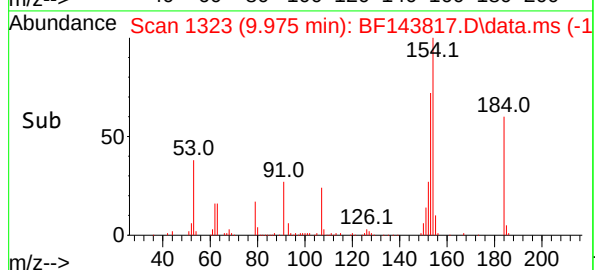
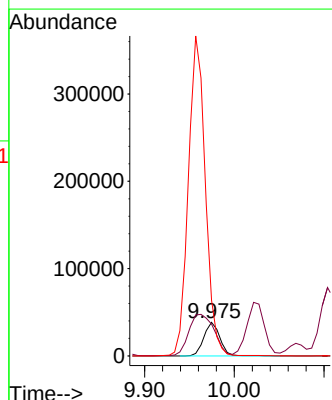
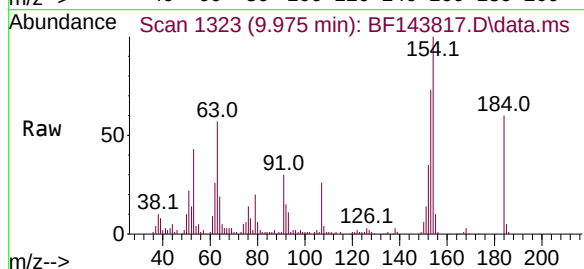
Tgt Ion:184 Resp: 47537

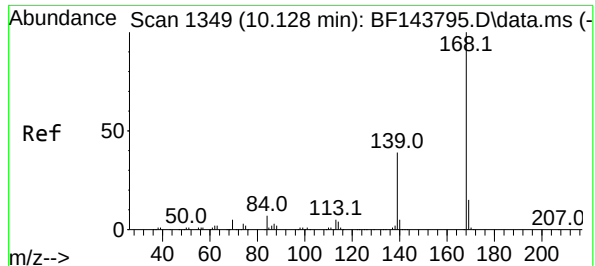
Ion Ratio Lower Upper

184 100

63 94.9 84.6 127.0

154 165.9 199.3 298.9#





#55

Dibenzofuran

Concen: 46.979 ng

RT: 10.127 min Scan# 1349

Delta R.T. -0.006 min

Lab File: BF143817.D

Acq: 25 Sep 2025 21:50

Instrument :

BNA\_F

ClientSampleId :

EME-TS14-01MS

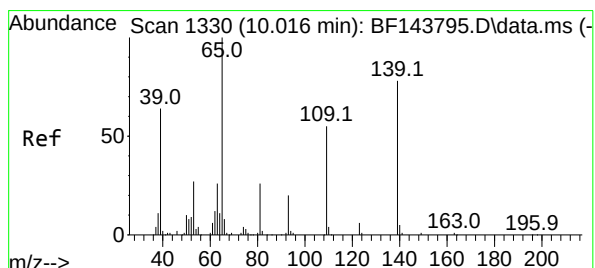
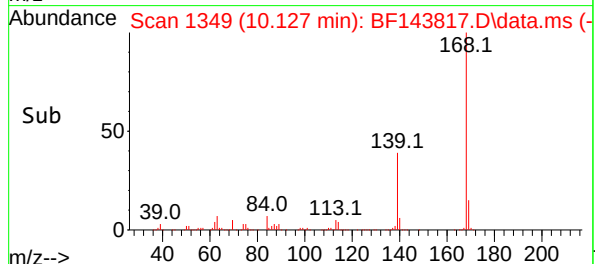
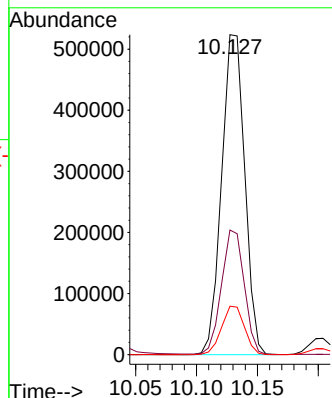
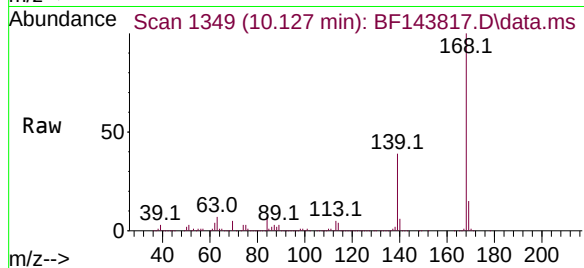
Tgt Ion:168 Resp: 690882

Ion Ratio Lower Upper

168 100

139 38.9 31.0 46.6

169 15.1 11.9 17.9



#56

4-Nitrophenol

Concen: 114.521 ng

RT: 10.027 min Scan# 1332

Delta R.T. 0.006 min

Lab File: BF143817.D

Acq: 25 Sep 2025 21:50

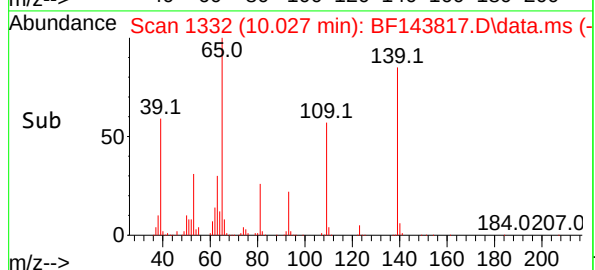
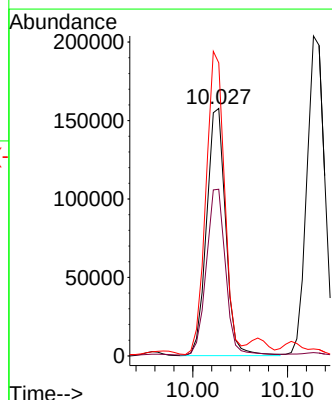
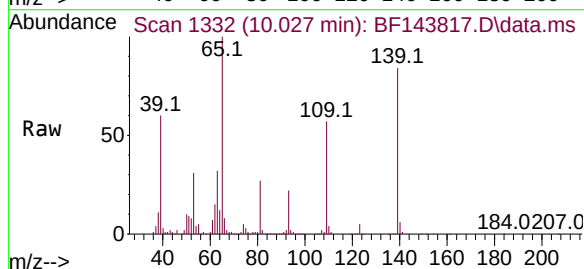
Tgt Ion:139 Resp: 220693

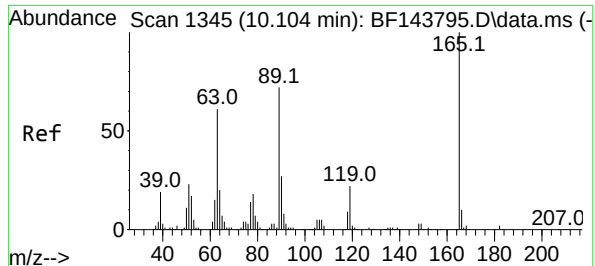
Ion Ratio Lower Upper

139 100

109 67.4 50.2 90.2

65 118.4 109.2 149.2





#57

2,4-Dinitrotoluene

Concen: 55.295 ng

RT: 10.104 min Scan# 1345

Delta R.T. -0.006 min

Lab File: BF143817.D

Acq: 25 Sep 2025 21:50

Instrument :

BNA\_F

ClientSampleId :

EME-TS14-01MS

Tgt Ion:165 Resp: 163310

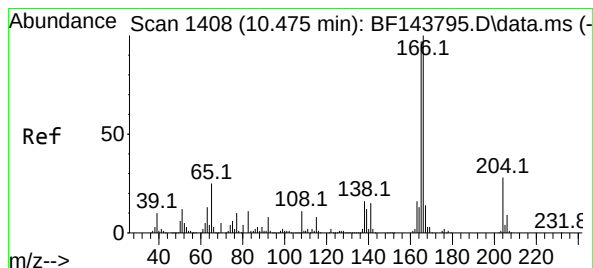
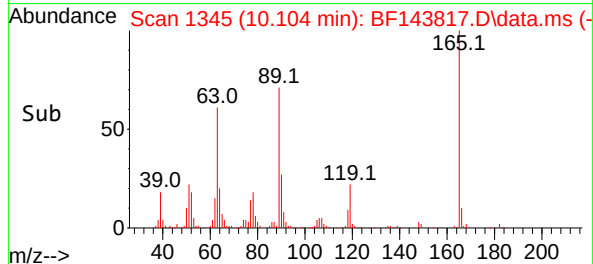
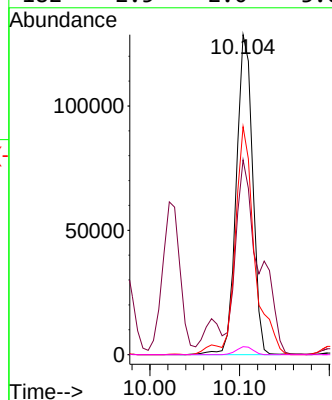
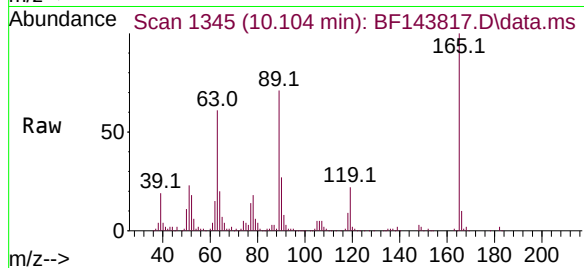
Ion Ratio Lower Upper

165 100

63 60.9 48.9 73.3

89 71.2 57.5 86.3

182 2.5 2.0 3.0



#58

Fluorene

Concen: 47.838 ng

RT: 10.474 min Scan# 1408

Delta R.T. -0.000 min

Lab File: BF143817.D

Acq: 25 Sep 2025 21:50

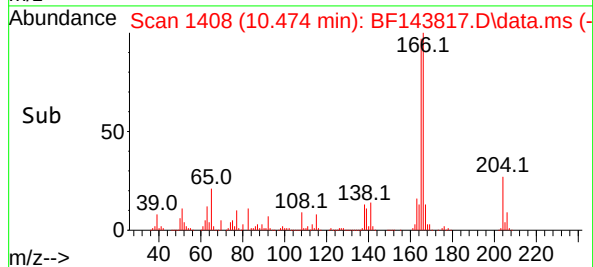
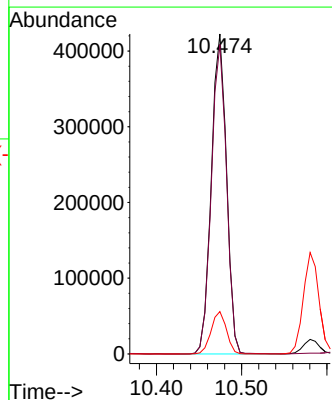
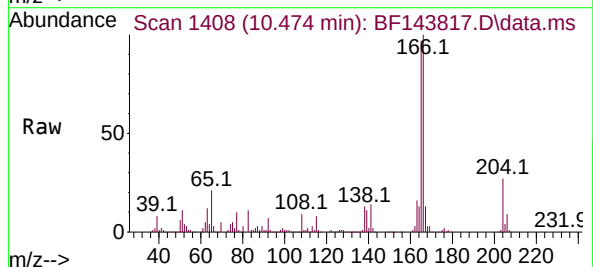
Tgt Ion:166 Resp: 523002

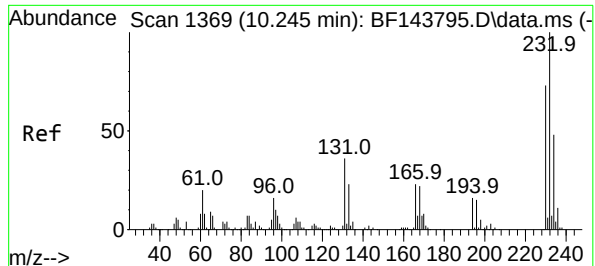
Ion Ratio Lower Upper

166 100

165 96.7 78.0 117.0

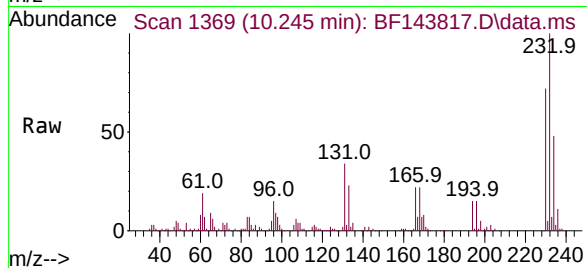
167 13.2 10.9 16.3



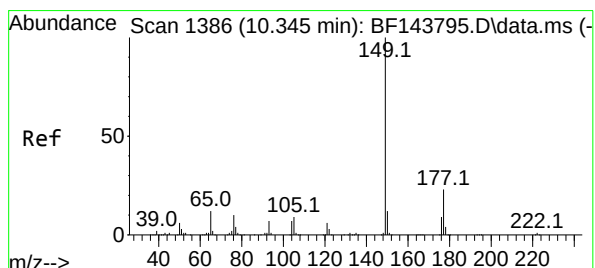
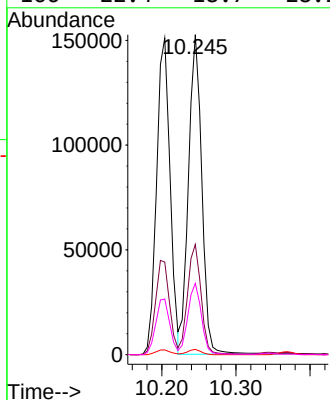
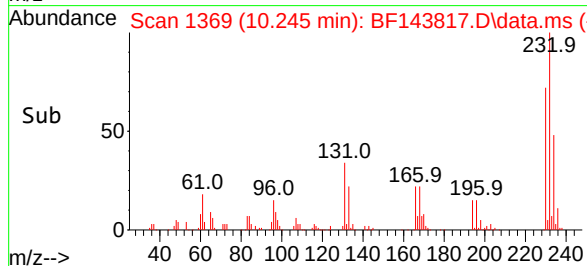


#59  
2,3,4,6-Tetrachlorophenol  
Concen: 57.116 ng  
RT: 10.245 min Scan# 1369  
Delta R.T. -0.000 min  
Lab File: BF143817.D  
Acq: 25 Sep 2025 21:50

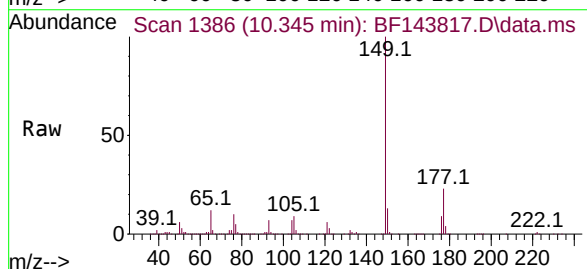
Instrument :  
BNA\_F  
ClientSampleId :  
EME-TS14-01MS



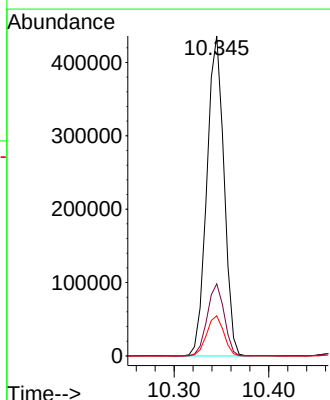
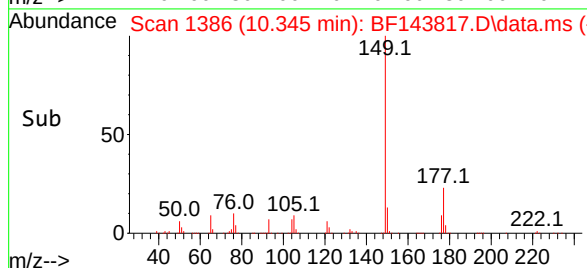
Tgt Ion:232 Resp: 190538  
Ion Ratio Lower Upper  
232 100  
131 34.5 29.4 44.2  
130 1.6 1.3 1.9  
166 22.4 18.7 28.1

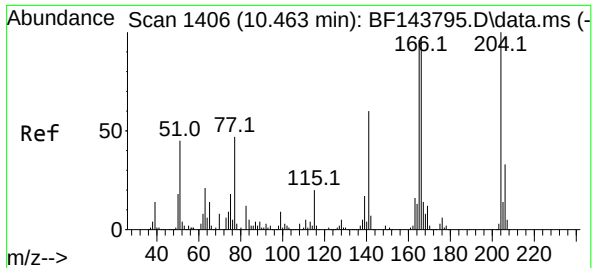


#60  
Diethylphthalate  
Concen: 48.872 ng  
RT: 10.345 min Scan# 1386  
Delta R.T. -0.000 min  
Lab File: BF143817.D  
Acq: 25 Sep 2025 21:50



Tgt Ion:149 Resp: 549355  
Ion Ratio Lower Upper  
149 100  
177 22.5 18.1 27.1  
150 12.5 9.7 14.5

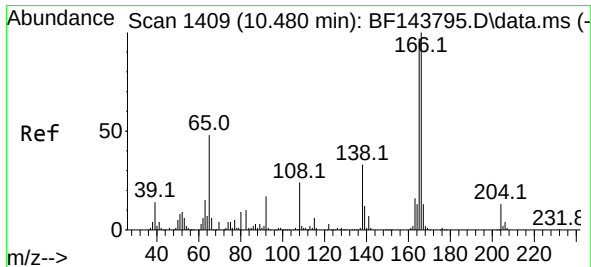
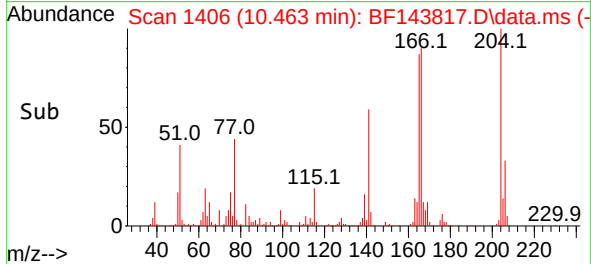
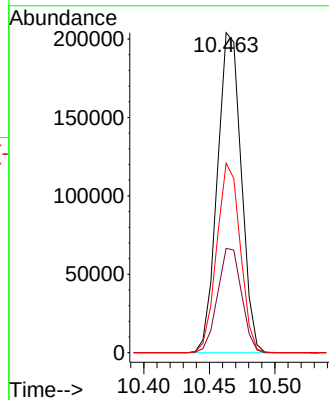
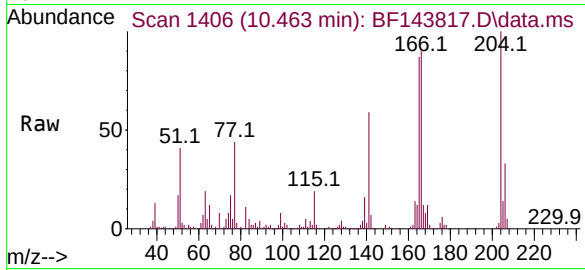




#61  
4-Chlorophenyl-phenylether  
Concen: 46.583 ng  
RT: 10.463 min Scan# 1406  
Delta R.T. -0.006 min  
Lab File: BF143817.D  
Acq: 25 Sep 2025 21:50

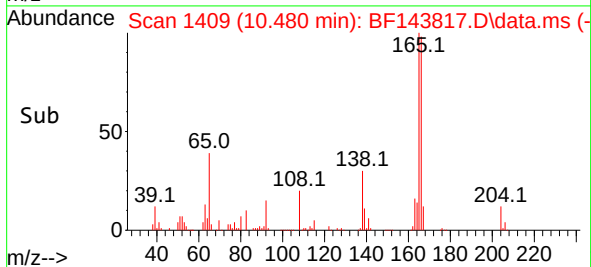
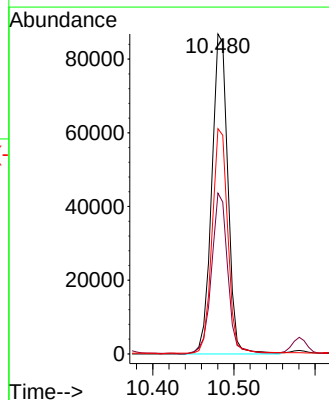
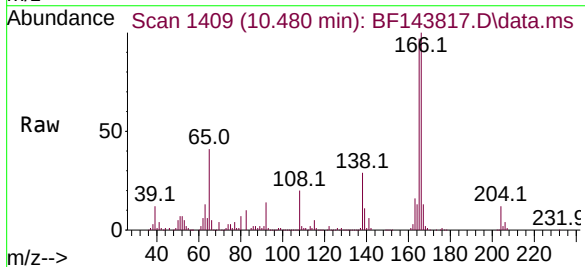
Instrument :  
BNA\_F  
ClientSampleId :  
EME-TS14-01MS

Tgt Ion:204 Resp: 259499  
Ion Ratio Lower Upper  
204 100  
206 32.6 26.7 40.1  
141 59.2 48.2 72.2

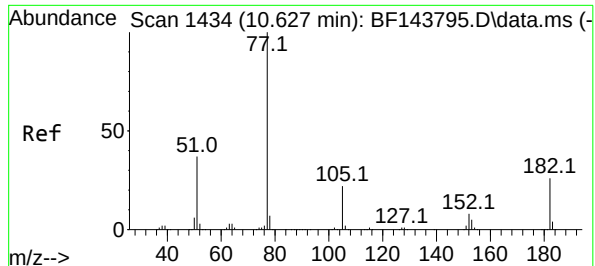


#62  
4-Nitroaniline  
Concen: 53.282 ng  
RT: 10.480 min Scan# 1409  
Delta R.T. -0.012 min  
Lab File: BF143817.D  
Acq: 25 Sep 2025 21:50

Tgt Ion:138 Resp: 119810  
Ion Ratio Lower Upper  
138 100  
92 50.2 31.5 71.5  
108 70.4 51.9 91.9



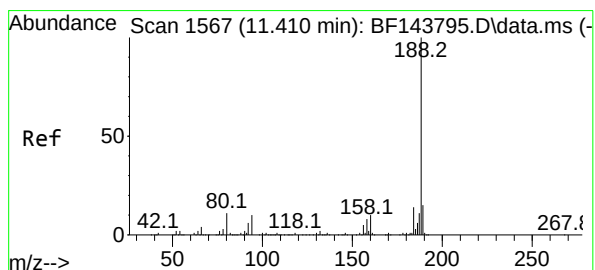
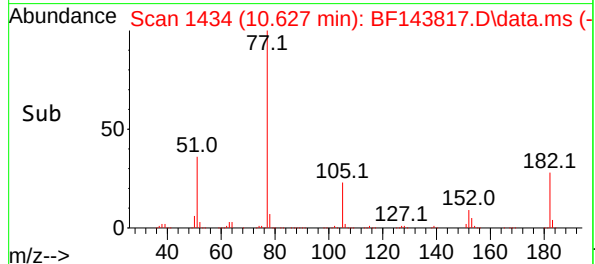
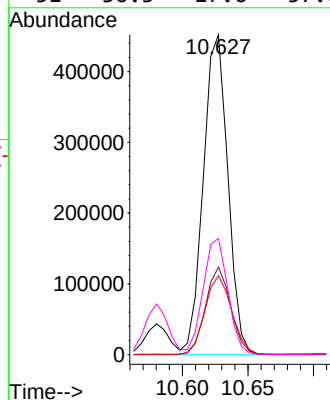
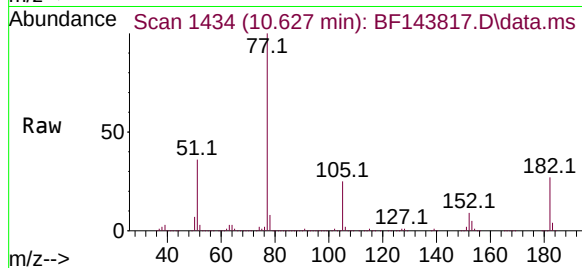




#63  
Azobenzene  
Concen: 49.483 ng  
RT: 10.627 min Scan# 1434  
Delta R.T. -0.000 min  
Lab File: BF143817.D  
Acq: 25 Sep 2025 21:50

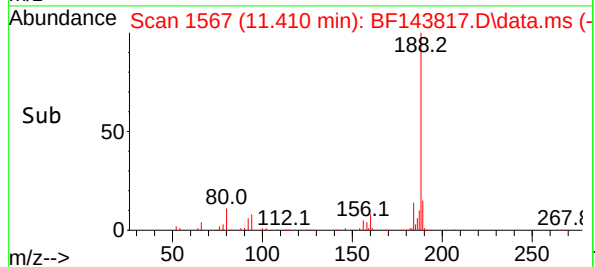
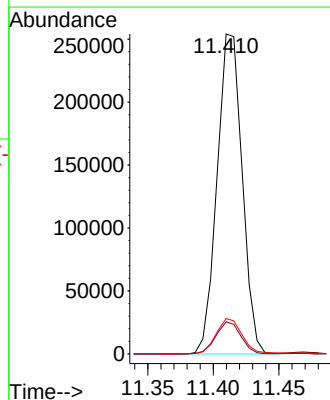
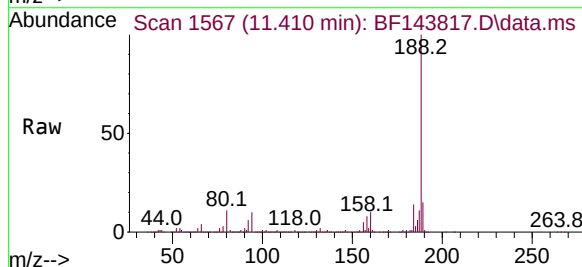
Instrument :  
BNA\_F  
ClientSampleId :  
EME-TS14-01MS

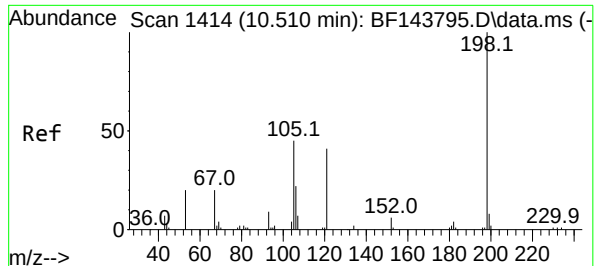
Tgt Ion: 77 Resp: 586205  
Ion Ratio Lower Upper  
77 100  
182 27.4 5.9 45.9  
105 24.7 2.3 42.3  
51 36.3 17.6 57.6



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.410 min Scan# 1567  
Delta R.T. -0.006 min  
Lab File: BF143817.D  
Acq: 25 Sep 2025 21:50

Tgt Ion: 188 Resp: 338625  
Ion Ratio Lower Upper  
188 100  
94 10.1 8.2 12.2  
80 11.0 8.6 12.8

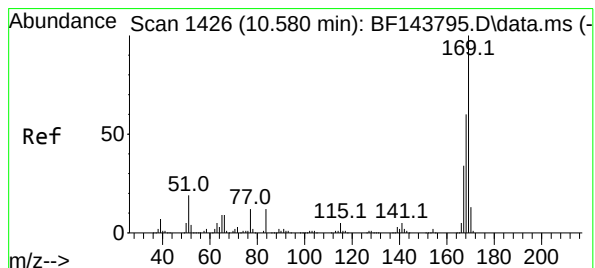
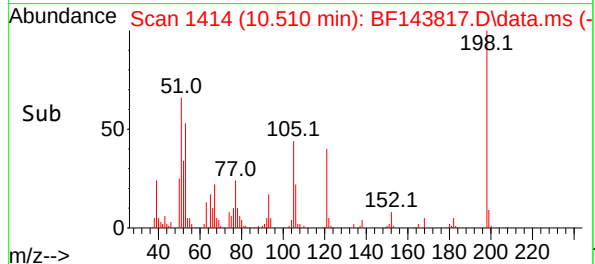
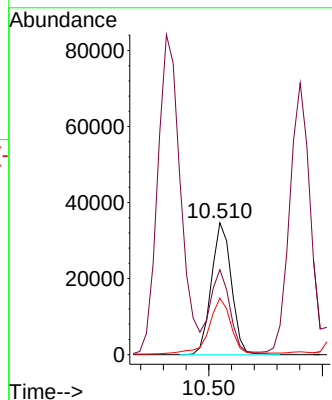
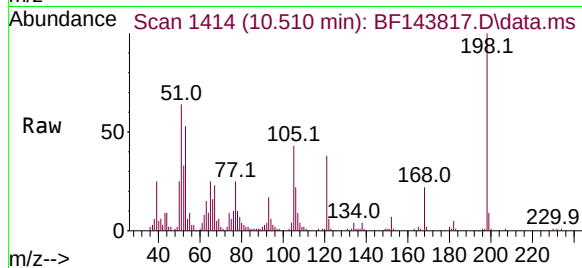




#65  
4,6-Dinitro-2-methylphenol  
Concen: 36.969 ng  
RT: 10.510 min Scan# 1414  
Delta R.T. -0.006 min  
Lab File: BF143817.D  
Acq: 25 Sep 2025 21:50

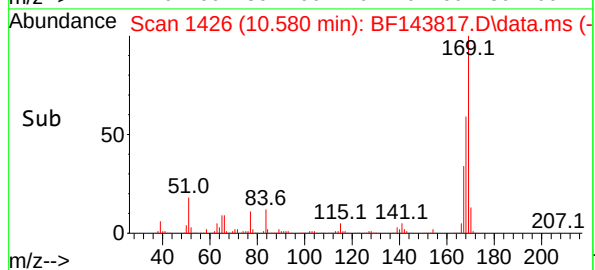
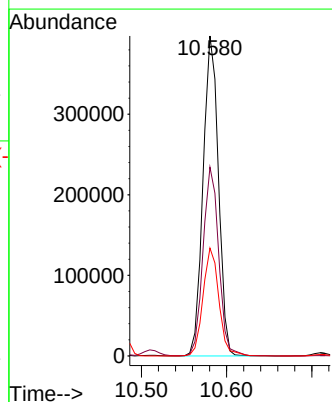
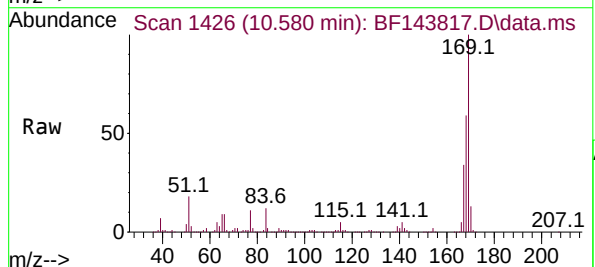
Instrument :  
BNA\_F  
ClientSampleId :  
EME-TS14-01MS

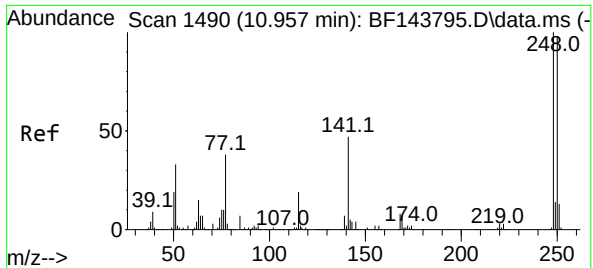
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 198     | 100   |       |       |
| 51      | 64.4  | 52.0  | 92.0  |
| 105     | 42.8  | 27.5  | 67.5  |



#66  
n-Nitrosodiphenylamine  
Concen: 44.583 ng  
RT: 10.580 min Scan# 1426  
Delta R.T. -0.006 min  
Lab File: BF143817.D  
Acq: 25 Sep 2025 21:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 169     | 100   |       |       |
| 168     | 59.0  | 47.9  | 71.9  |
| 167     | 33.7  | 27.0  | 40.6  |

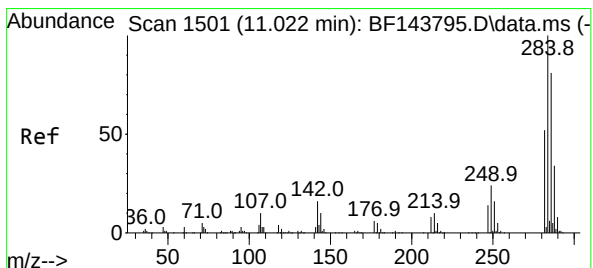
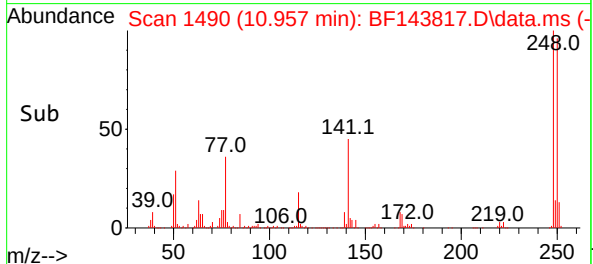
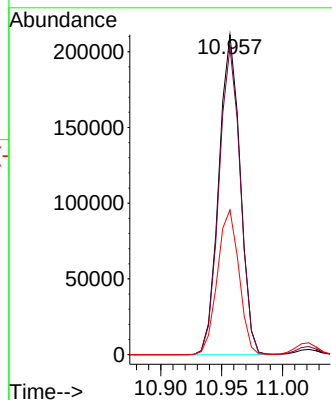
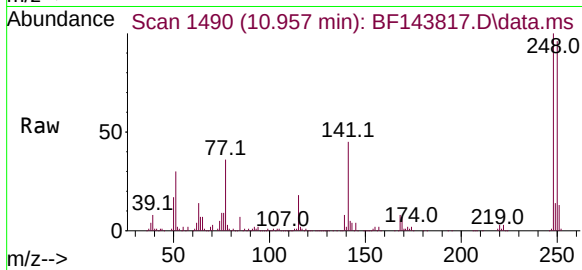




#67  
4-Bromophenyl-phenylether  
Concen: 44.607 ng  
RT: 10.957 min Scan# 1490  
Delta R.T. -0.000 min  
Lab File: BF143817.D  
Acq: 25 Sep 2025 21:50

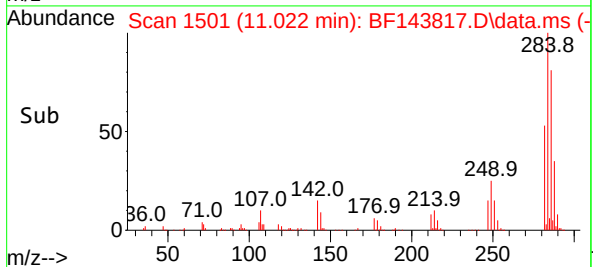
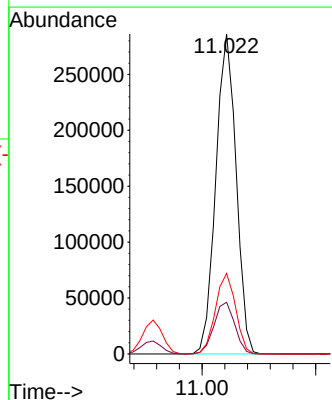
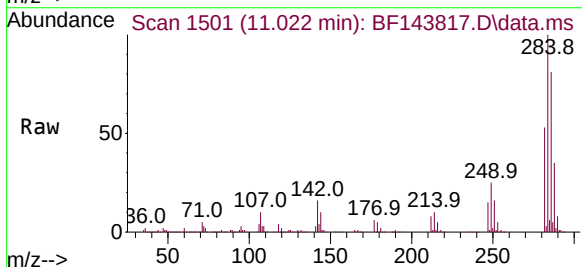
Instrument :  
BNA\_F  
ClientSampleId :  
EME-TS14-01MS

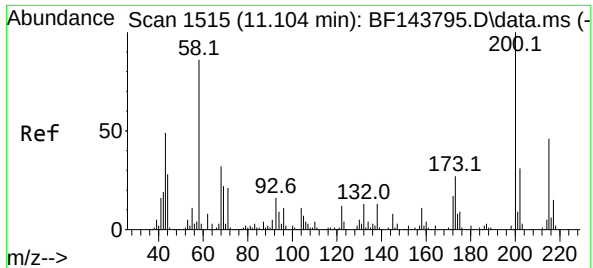
Tgt Ion:248 Resp: 257415  
Ion Ratio Lower Upper  
248 100  
250 96.1 78.7 118.1  
141 45.2 37.9 56.9



#68  
Hexachlorobenzene  
Concen: 44.576 ng  
RT: 11.022 min Scan# 1501  
Delta R.T. -0.000 min  
Lab File: BF143817.D  
Acq: 25 Sep 2025 21:50

Tgt Ion:284 Resp: 354496  
Ion Ratio Lower Upper  
284 100  
142 16.2 13.1 19.7  
249 25.1 19.5 29.3





#69

Atrazine

Concen: 50.006 ng

RT: 11.110 min Scan# 1516

Delta R.T. -0.000 min

Lab File: BF143817.D

Acq: 25 Sep 2025 21:50

Instrument :

BNA\_F

ClientSampleId :

EME-TS14-01MS

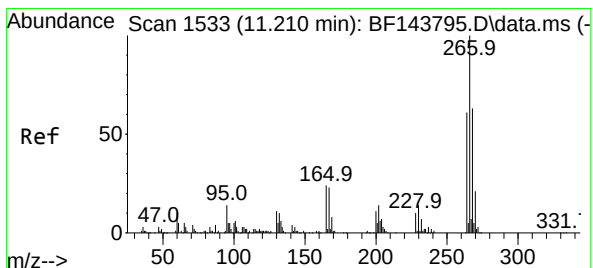
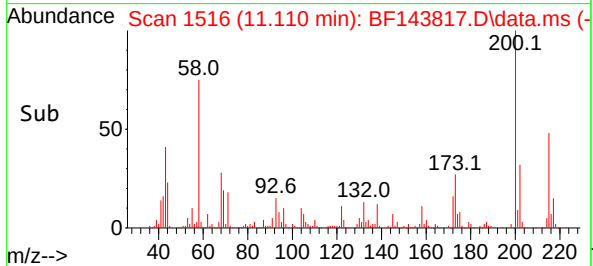
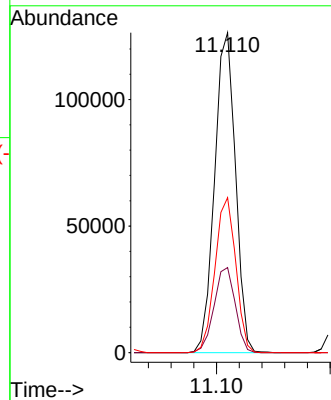
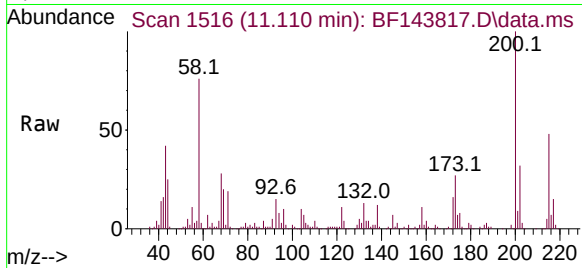
Tgt Ion:200 Resp: 161262

Ion Ratio Lower Upper

200 100

173 26.6 7.2 47.2

215 48.4 26.0 66.0



#70

Pentachlorophenol

Concen: 111.364 ng

RT: 11.216 min Scan# 1534

Delta R.T. -0.000 min

Lab File: BF143817.D

Acq: 25 Sep 2025 21:50

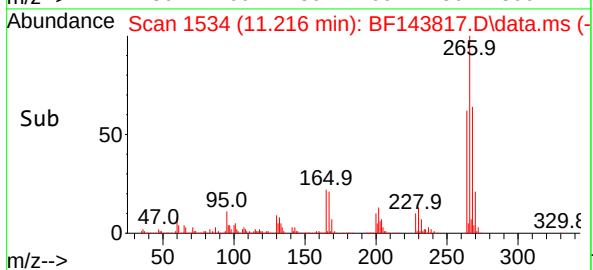
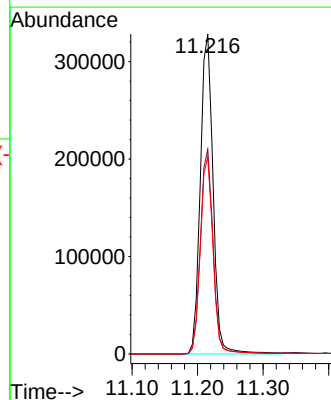
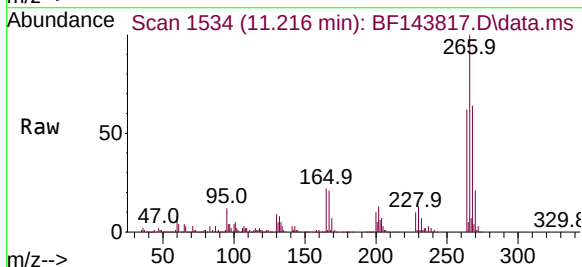
Tgt Ion:266 Resp: 440851

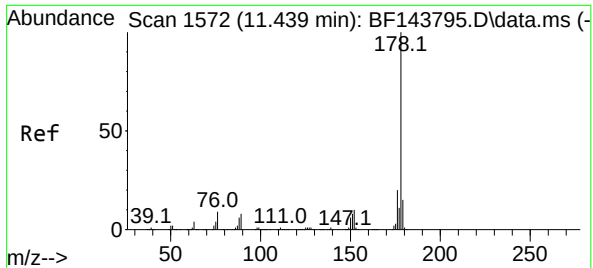
Ion Ratio Lower Upper

266 100

268 63.9 50.5 75.7

264 61.6 48.8 73.2

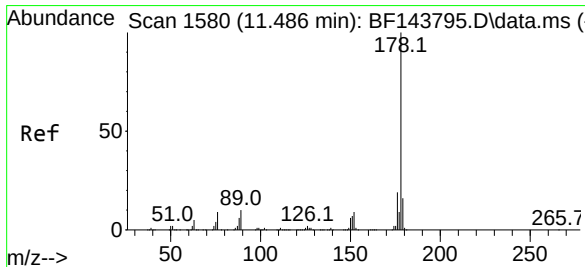
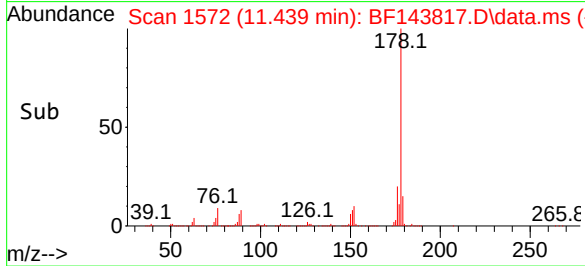
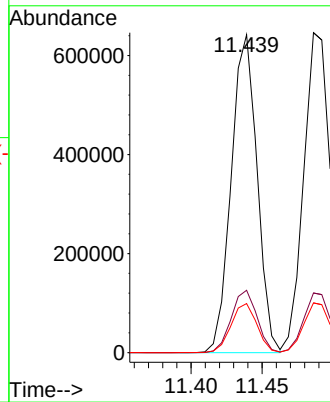
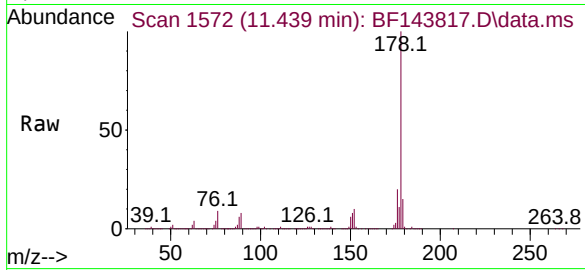




#71  
Phenanthrene  
Concen: 46.754 ng  
RT: 11.439 min Scan# 1572  
Delta R.T. -0.000 min  
Lab File: BF143817.D  
Acq: 25 Sep 2025 21:50

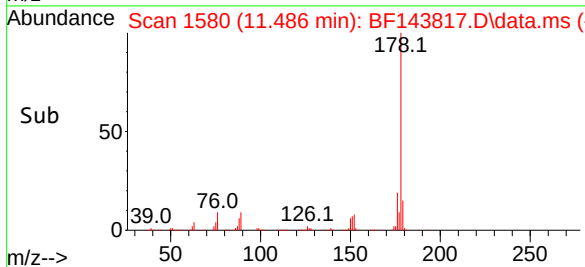
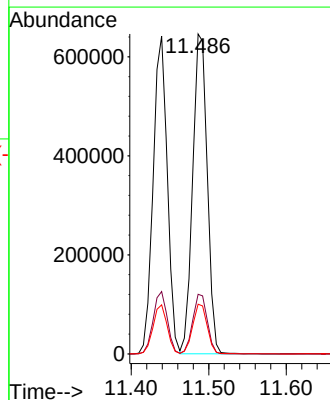
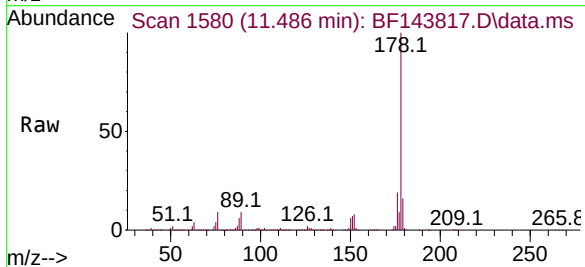
Instrument :  
BNA\_F  
ClientSampleId :  
EME-TS14-01MS

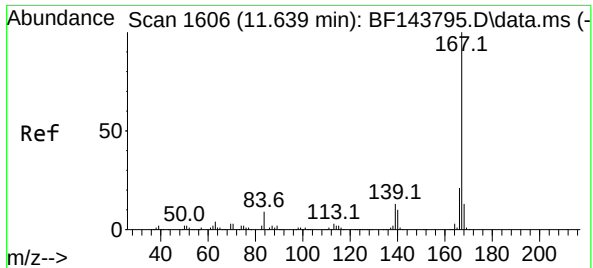
Tgt Ion:178 Resp: 812817  
Ion Ratio Lower Upper  
178 100  
176 19.6 15.6 23.4  
179 15.4 12.2 18.4



#72  
Anthracene  
Concen: 48.290 ng  
RT: 11.486 min Scan# 1580  
Delta R.T. -0.006 min  
Lab File: BF143817.D  
Acq: 25 Sep 2025 21:50

Tgt Ion:178 Resp: 842097  
Ion Ratio Lower Upper  
178 100  
176 18.6 15.3 22.9  
179 15.5 12.8 19.2

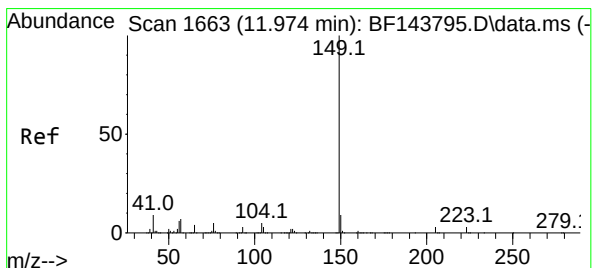
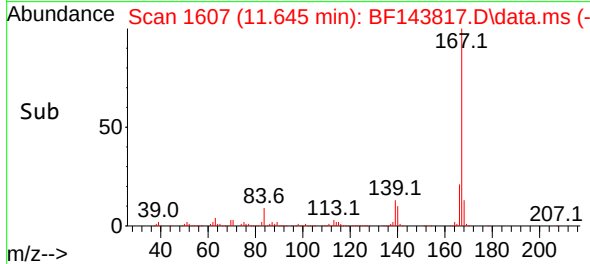
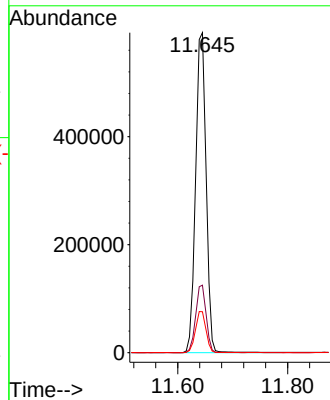
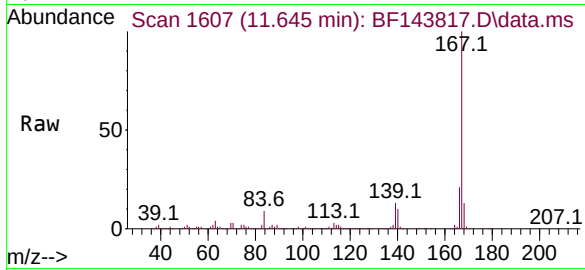




#73  
Carbazole  
Concen: 51.713 ng  
RT: 11.645 min Scan# 1607  
Delta R.T. -0.000 min  
Lab File: BF143817.D  
Acq: 25 Sep 2025 21:50

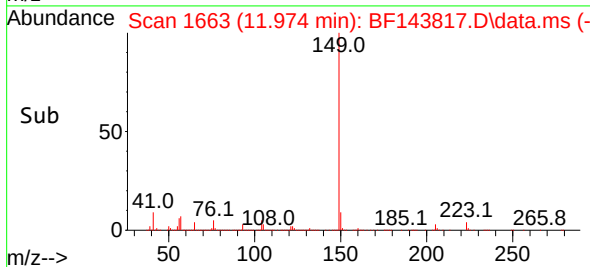
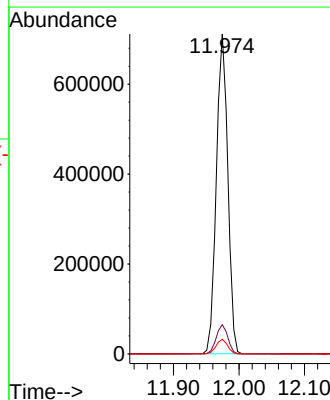
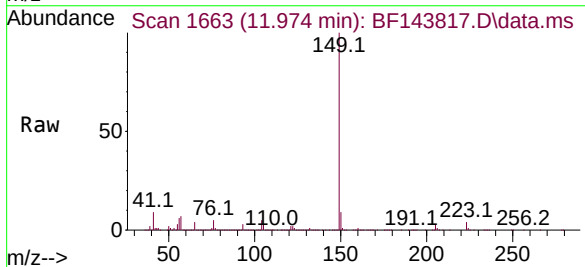
Instrument :  
BNA\_F  
ClientSampleId :  
EME-TS14-01MS

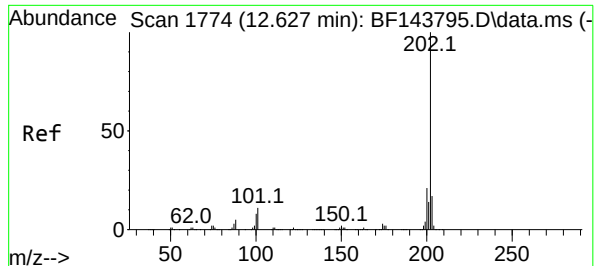
Tgt Ion:167 Resp: 788458  
Ion Ratio Lower Upper  
167 100  
166 21.1 17.0 25.4  
139 12.8 10.6 15.8



#74  
Di-n-butylphthalate  
Concen: 49.358 ng  
RT: 11.974 min Scan# 1663  
Delta R.T. -0.000 min  
Lab File: BF143817.D  
Acq: 25 Sep 2025 21:50

Tgt Ion:149 Resp: 865492  
Ion Ratio Lower Upper  
149 100  
150 9.1 7.3 10.9  
104 4.6 3.6 5.4





#75

Fluoranthene

Concen: 57.995 ng

RT: 12.627 min Scan# 11

Delta R.T. -0.000 min

Lab File: BF143817.D

Acq: 25 Sep 2025 21:50

Instrument :

BNA\_F

ClientSampleId :

EME-TS14-01MS

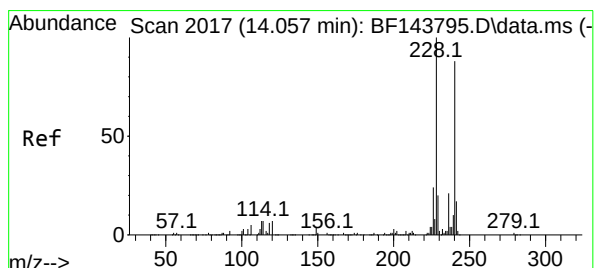
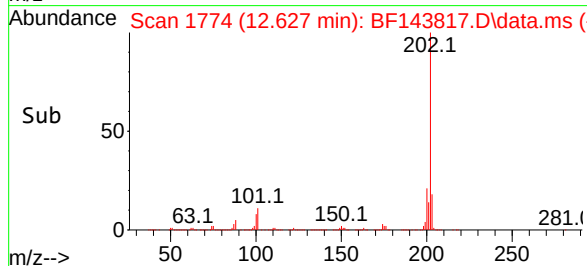
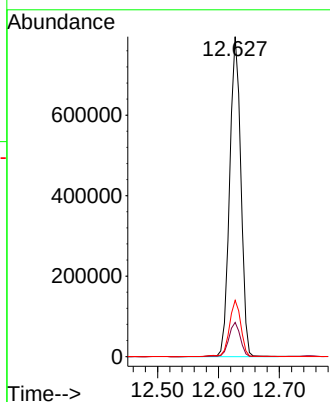
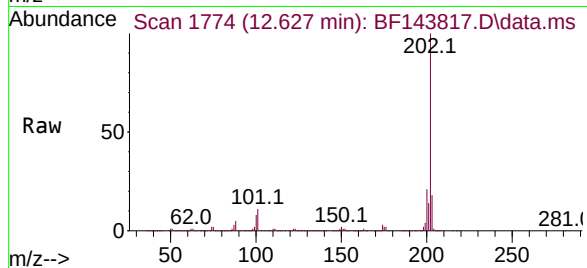
Tgt Ion:202 Resp: 1014060

Ion Ratio Lower Upper

202 100

101 10.7 0.0 31.1

203 17.6 0.0 37.4



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.062 min Scan# 2018

Delta R.T. -0.000 min

Lab File: BF143817.D

Acq: 25 Sep 2025 21:50

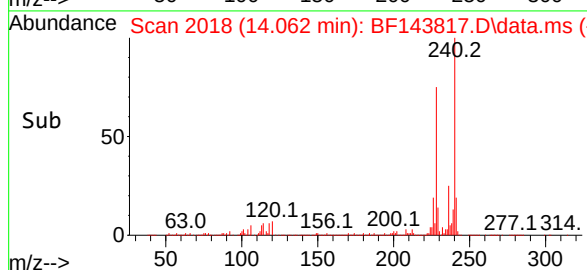
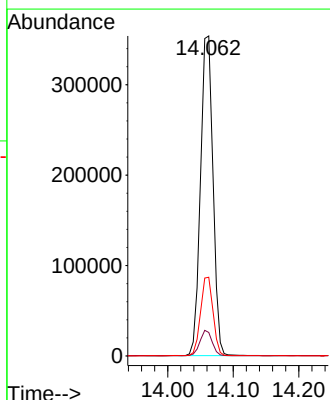
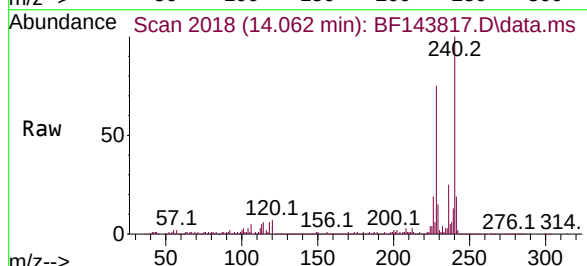
Tgt Ion:240 Resp: 466221

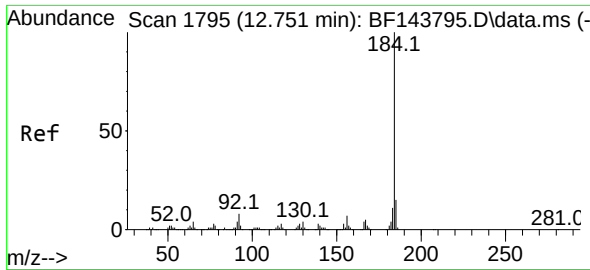
Ion Ratio Lower Upper

240 100

120 7.3 6.2 9.4

236 24.6 19.4 29.2

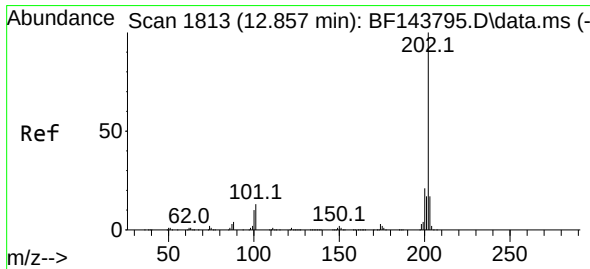
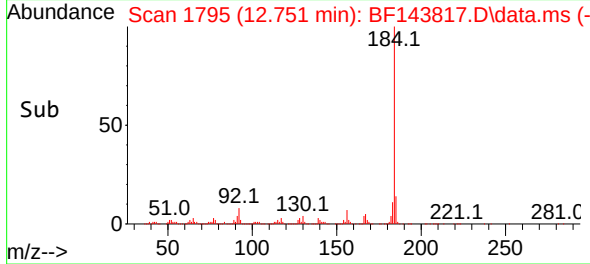
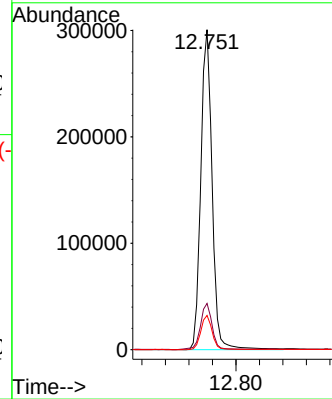
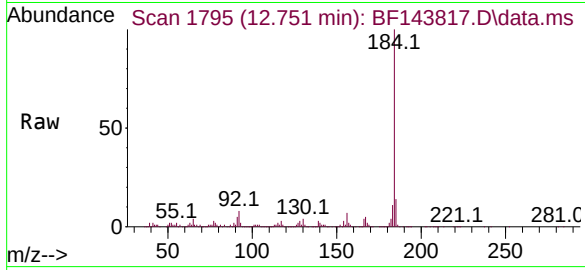




#77  
Benzidine  
Concen: 35.214 ng  
RT: 12.751 min Scan# 1795  
Delta R.T. -0.000 min  
Lab File: BF143817.D  
Acq: 25 Sep 2025 21:50

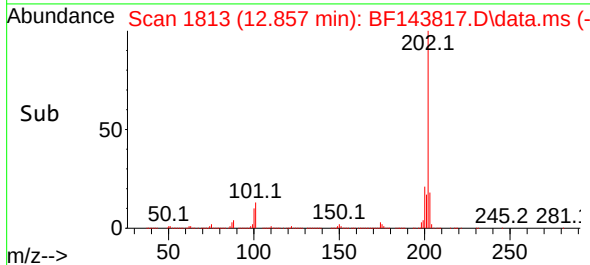
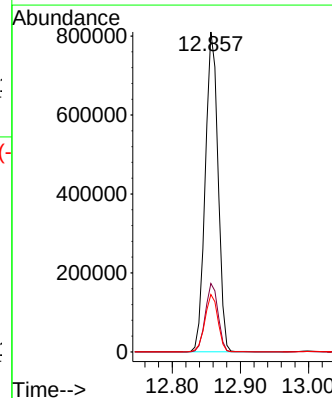
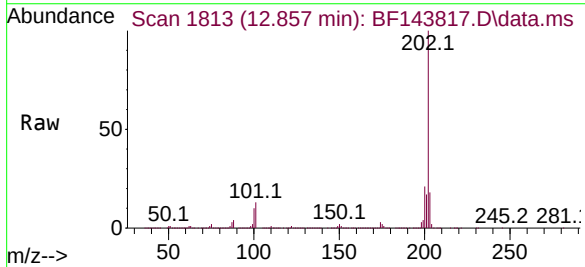
Instrument :  
BNA\_F  
ClientSampleId :  
EME-TS14-01MS

Tgt Ion:184 Resp: 400056  
Ion Ratio Lower Upper  
184 100  
185 14.4 11.6 17.4  
183 10.7 8.6 13.0

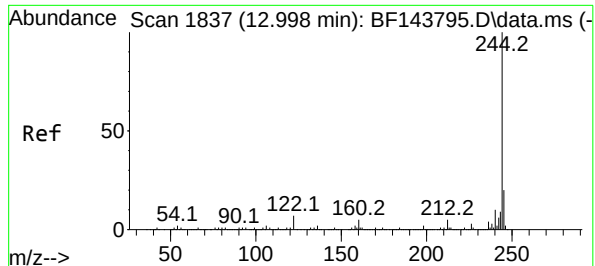


#78  
Pyrene  
Concen: 46.019 ng  
RT: 12.857 min Scan# 1813  
Delta R.T. -0.000 min  
Lab File: BF143817.D  
Acq: 25 Sep 2025 21:50

Tgt Ion:202 Resp: 1054811  
Ion Ratio Lower Upper  
202 100  
200 21.4 17.0 25.4  
203 18.0 13.9 20.9







#79

Terphenyl-d14

Concen: 48.255 ng

RT: 12.998 min Scan# 1837

Delta R.T. -0.006 min

Lab File: BF143817.D

Acq: 25 Sep 2025 21:50

Instrument :

BNA\_F

ClientSampleId :

EME-TS14-01MS

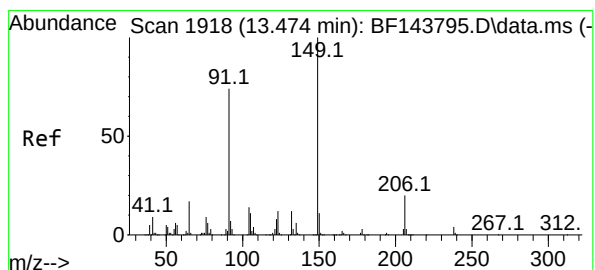
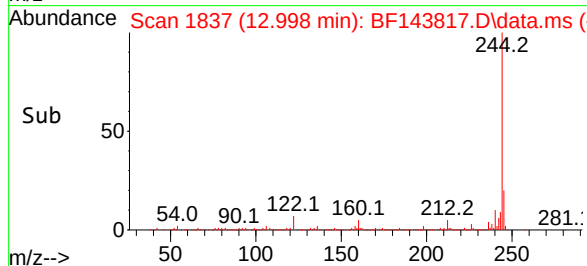
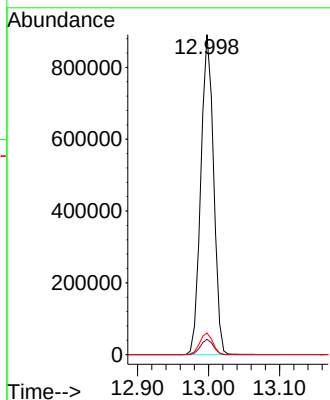
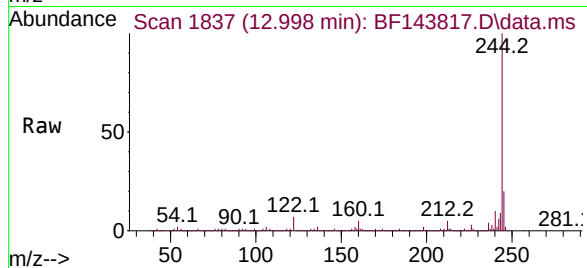
Tgt Ion:244 Resp: 1106215

Ion Ratio Lower Upper

244 100

212 4.8 3.9 5.9

122 6.8 5.6 8.4



#80

Butylbenzylphthalate

Concen: 52.702 ng

RT: 13.474 min Scan# 1918

Delta R.T. -0.006 min

Lab File: BF143817.D

Acq: 25 Sep 2025 21:50

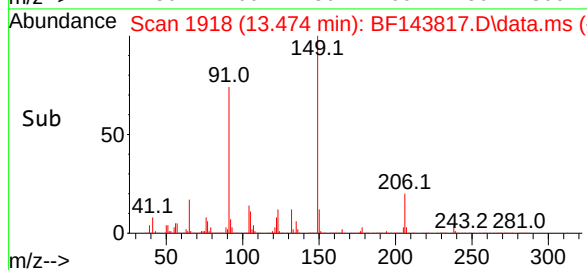
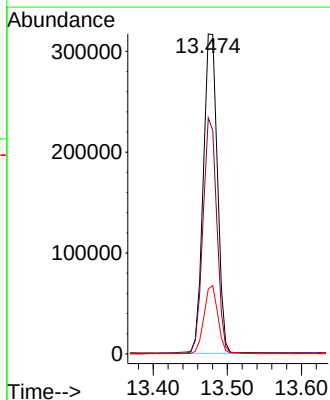
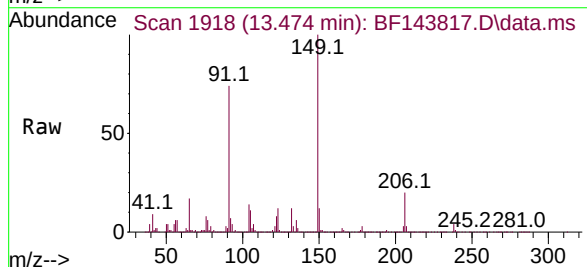
Tgt Ion:149 Resp: 417931

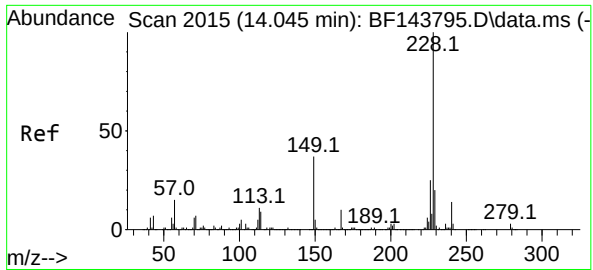
Ion Ratio Lower Upper

149 100

91 73.7 59.5 89.3

206 20.3 16.1 24.1

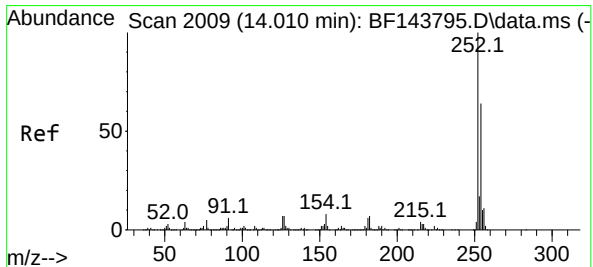
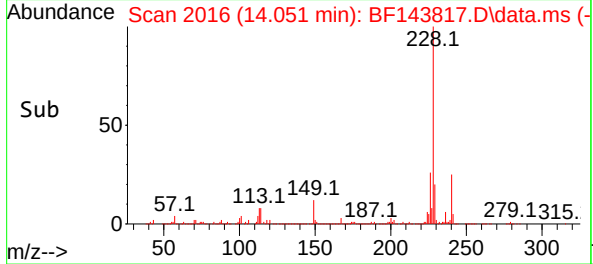
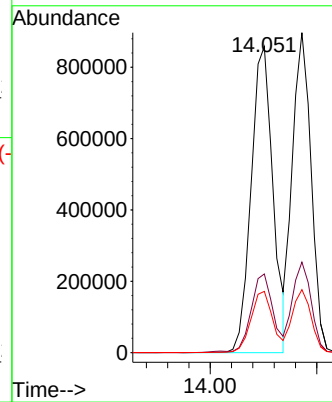
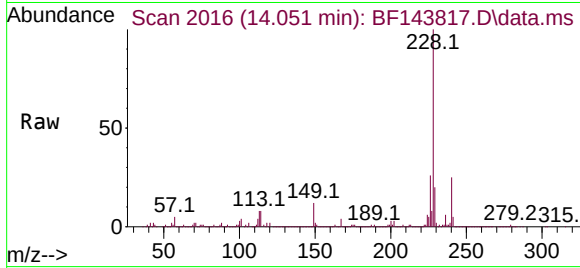




#81  
Benzo(a)anthracene  
Concen: 48.951 ng  
RT: 14.051 min Scan# 2015  
Delta R.T. -0.000 min  
Lab File: BF143817.D  
Acq: 25 Sep 2025 21:50

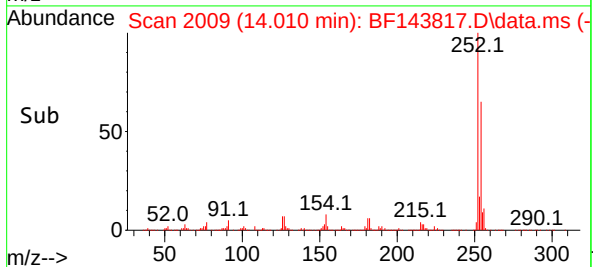
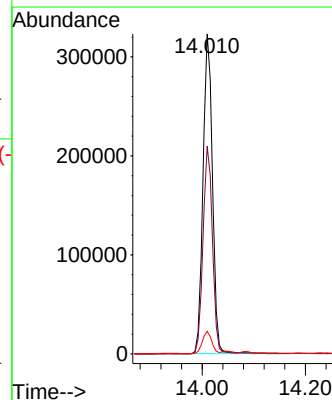
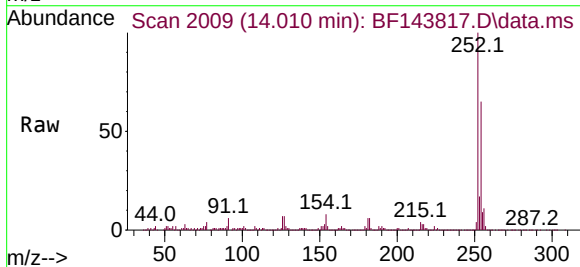
Instrument :  
BNA\_F  
ClientSampleId :  
EME-TS14-01MS

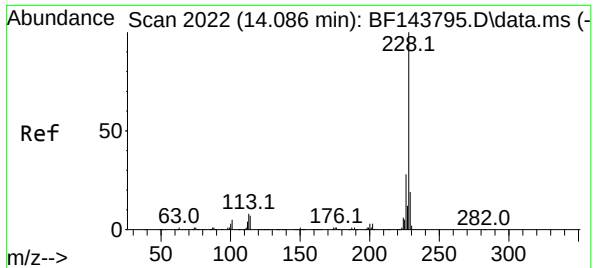
Tgt Ion:228 Resp: 1226054  
Ion Ratio Lower Upper  
228 100  
226 25.7 20.2 30.2  
229 20.0 16.1 24.1



#82  
3,3'-Dichlorobenzidine  
Concen: 37.859 ng  
RT: 14.010 min Scan# 2009  
Delta R.T. -0.000 min  
Lab File: BF143817.D  
Acq: 25 Sep 2025 21:50

Tgt Ion:252 Resp: 410788  
Ion Ratio Lower Upper  
252 100  
254 64.9 51.5 77.3  
126 7.0 5.4 8.2





#83

Chrysene

Concen: 48.288 ng

RT: 14.086 min Scan# 2022

Delta R.T. -0.000 min

Lab File: BF143817.D

Acq: 25 Sep 2025 21:50

Instrument :

BNA\_F

ClientSampleId :

EME-TS14-01MS

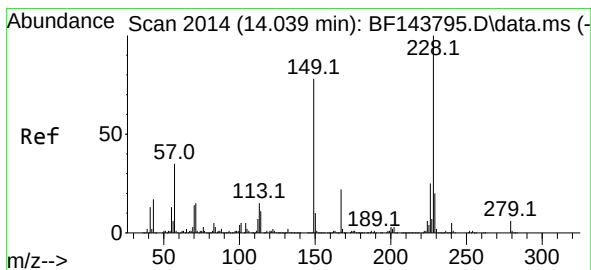
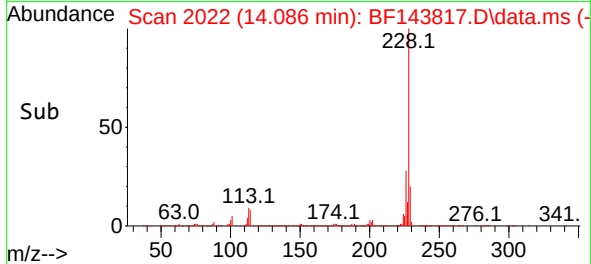
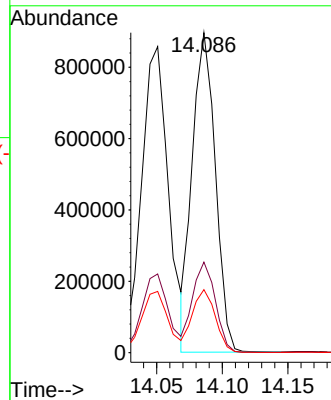
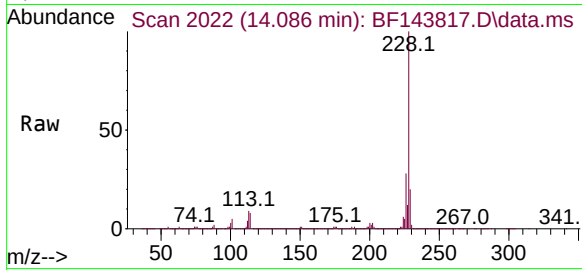
Tgt Ion:228 Resp: 1094367

Ion Ratio Lower Upper

228 100

226 28.3 22.6 33.8

229 19.7 15.6 23.4



#84

Bis(2-ethylhexyl)phthalate

Concen: 46.451 ng

RT: 14.039 min Scan# 2014

Delta R.T. -0.000 min

Lab File: BF143817.D

Acq: 25 Sep 2025 21:50

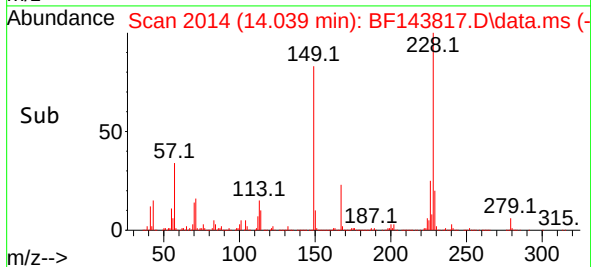
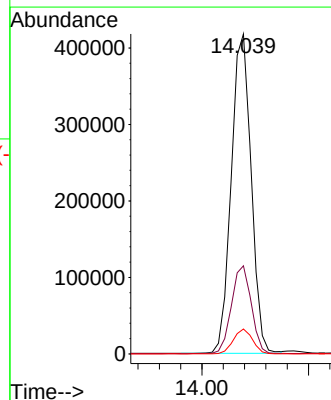
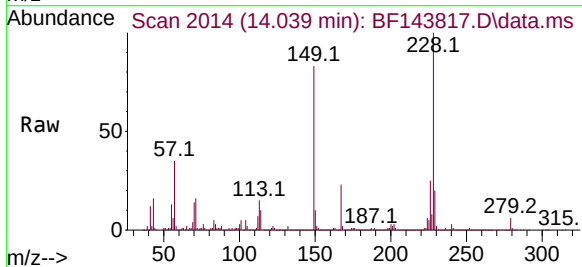
Tgt Ion:149 Resp: 539945

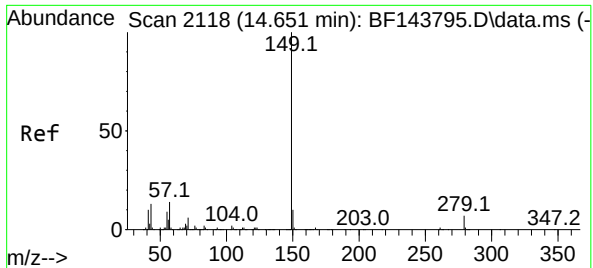
Ion Ratio Lower Upper

149 100

167 27.5 22.2 33.2

279 7.8 6.0 9.0

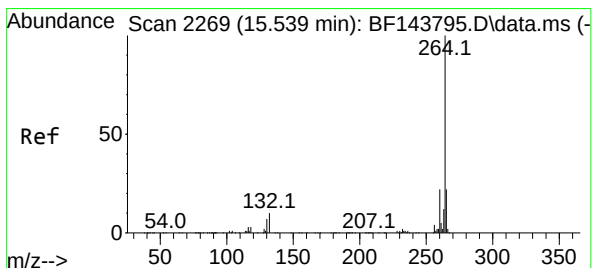
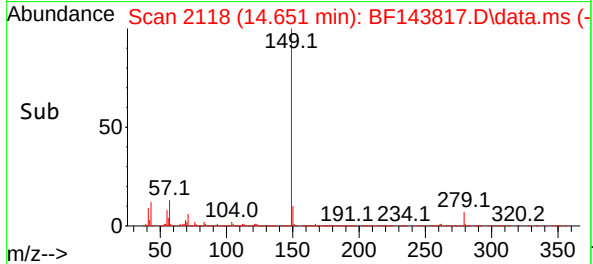
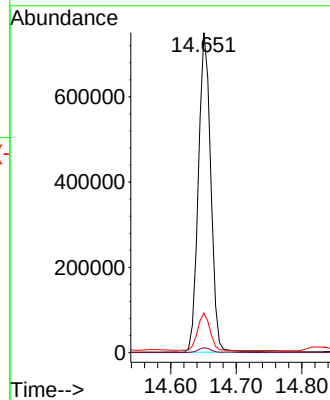
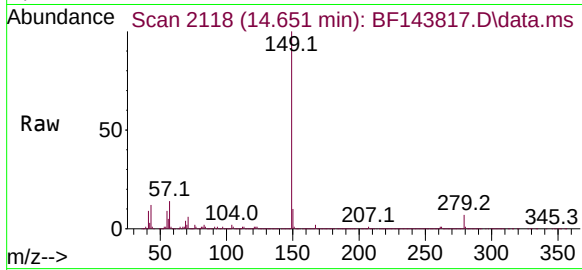




#85  
Di-n-octyl phthalate  
Concen: 46.324 ng  
RT: 14.651 min Scan# 2118  
Delta R.T. -0.006 min  
Lab File: BF143817.D  
Acq: 25 Sep 2025 21:50

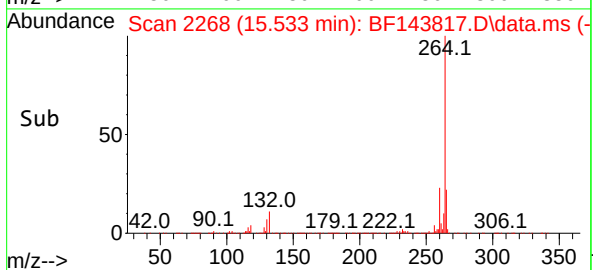
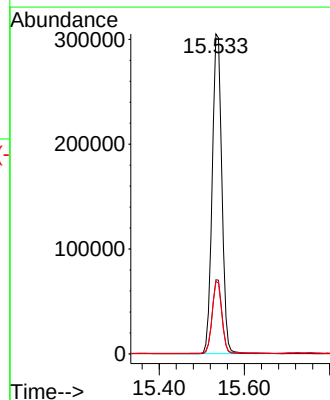
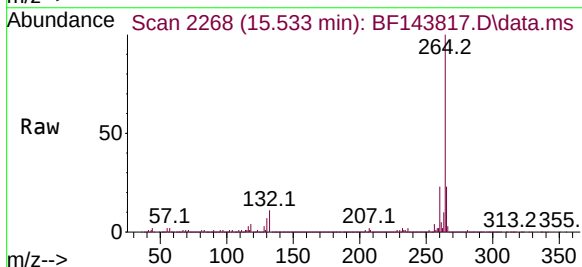
Instrument :  
BNA\_F  
ClientSampleId :  
EME-TS14-01MS

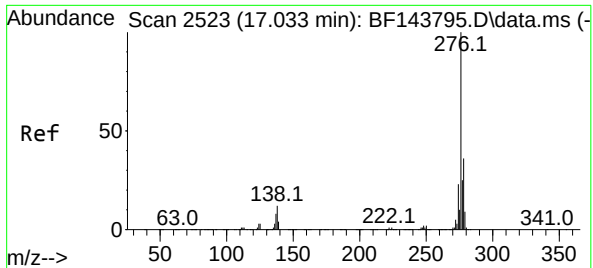
Tgt Ion:149 Resp: 976739  
Ion Ratio Lower Upper  
149 100  
167 1.5 1.1 1.7  
43 11.9 10.7 16.1



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.533 min Scan# 2268  
Delta R.T. -0.006 min  
Lab File: BF143817.D  
Acq: 25 Sep 2025 21:50

Tgt Ion:264 Resp: 479520  
Ion Ratio Lower Upper  
264 100  
260 23.2 17.9 26.9  
265 22.6 17.7 26.5





#87

Indeno(1,2,3-cd)pyrene

Concen: 33.937 ng

RT: 17.027 min Scan# 21

Delta R.T. -0.018 min

Lab File: BF143817.D

Acq: 25 Sep 2025 21:50

Instrument :

BNA\_F

ClientSampleId :

EME-TS14-01MS

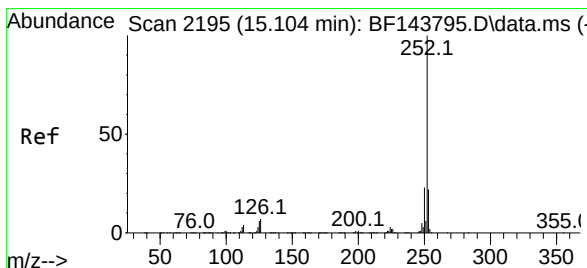
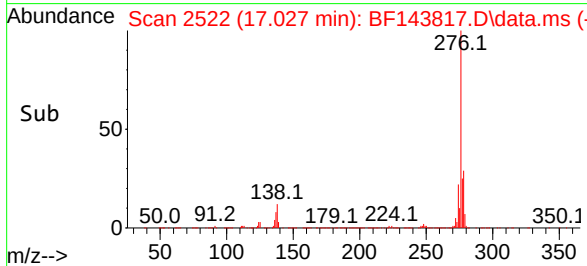
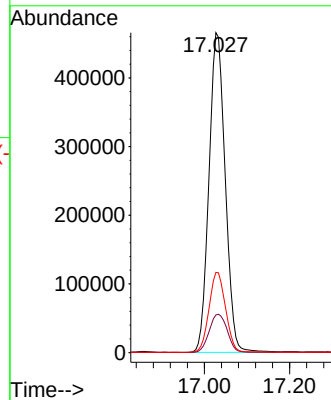
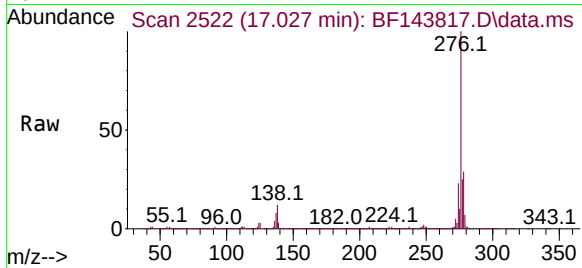
Tgt Ion:276 Resp: 1234729

Ion Ratio Lower Upper

276 100

138 13.2 10.6 15.8

277 25.7 20.7 31.1



#88

Benzo(b)fluoranthene

Concen: 63.756 ng

RT: 15.104 min Scan# 2195

Delta R.T. -0.000 min

Lab File: BF143817.D

Acq: 25 Sep 2025 21:50

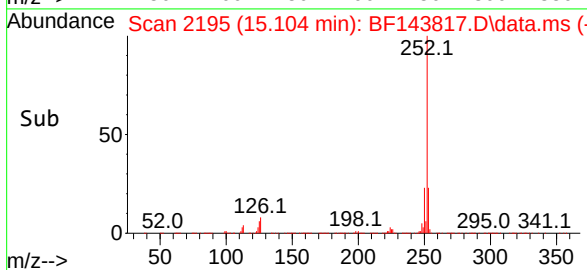
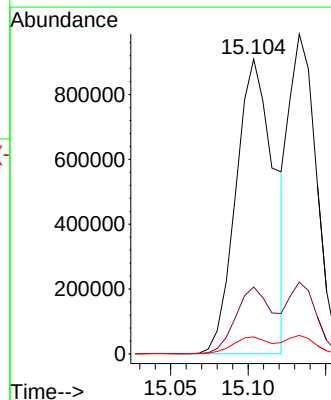
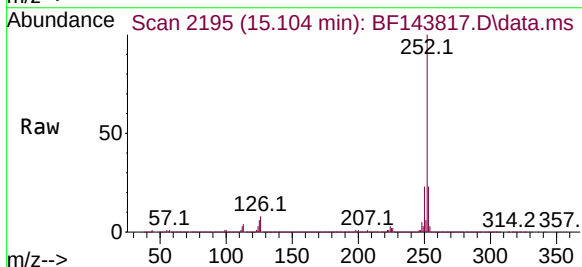
Tgt Ion:252 Resp: 1556899

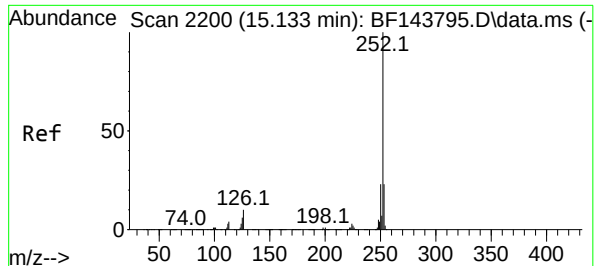
Ion Ratio Lower Upper

252 100

253 22.7 17.8 26.8

125 5.8 4.4 6.6





#89

Benzo(k)fluoranthene

Concen: 49.137 ng

RT: 15.133 min Scan# 2200

Delta R.T. -0.006 min

Lab File: BF143817.D

Acq: 25 Sep 2025 21:50

Instrument :

BNA\_F

ClientSampleId :

EME-TS14-01MS

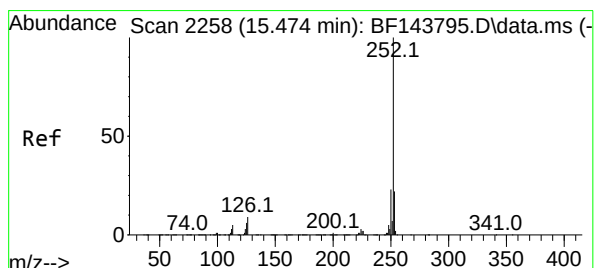
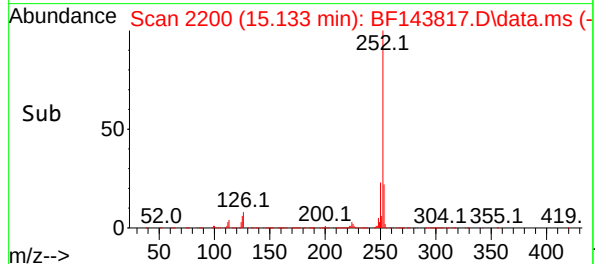
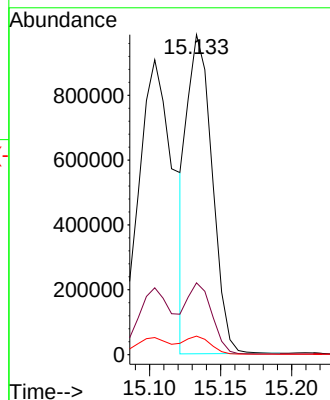
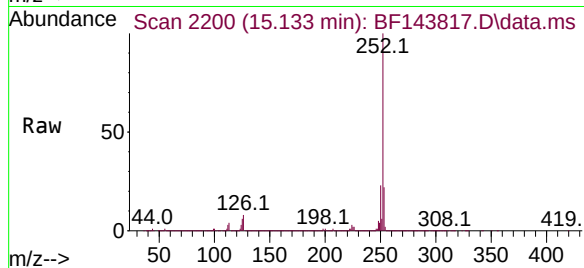
Tgt Ion:252 Resp: 1205497

Ion Ratio Lower Upper

252 100

253 22.4 17.9 26.9

125 5.8 4.6 6.8



#90

Benzo(a)pyrene

Concen: 52.915 ng

RT: 15.474 min Scan# 2258

Delta R.T. -0.006 min

Lab File: BF143817.D

Acq: 25 Sep 2025 21:50

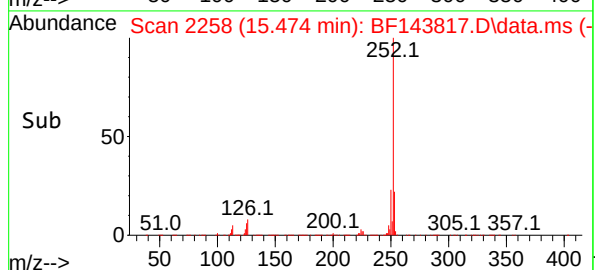
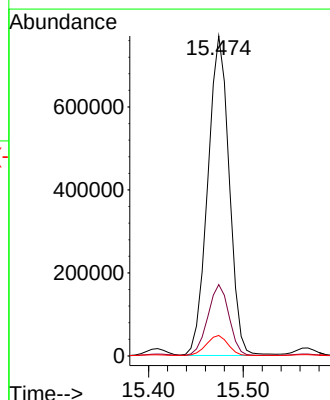
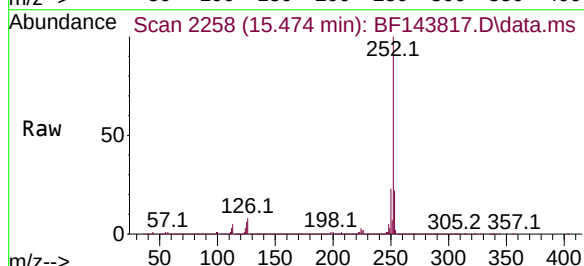
Tgt Ion:252 Resp: 1214603

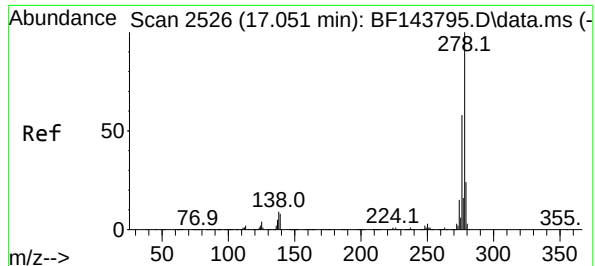
Ion Ratio Lower Upper

252 100

253 22.3 17.6 26.4

125 6.4 5.0 7.4





#91

Dibenzo(a,h)anthracene

Concen: 33.587 ng

RT: 17.051 min Scan# 21

Delta R.T. -0.018 min

Lab File: BF143817.D

Acq: 25 Sep 2025 21:50

Instrument :

BNA\_F

ClientSampleId :

EME-TS14-01MS

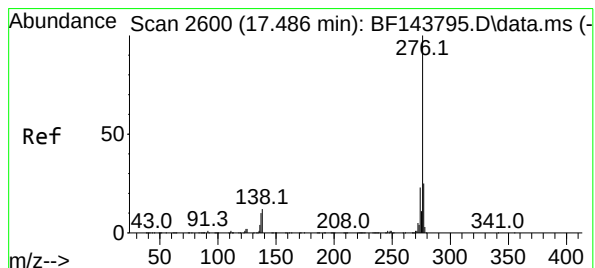
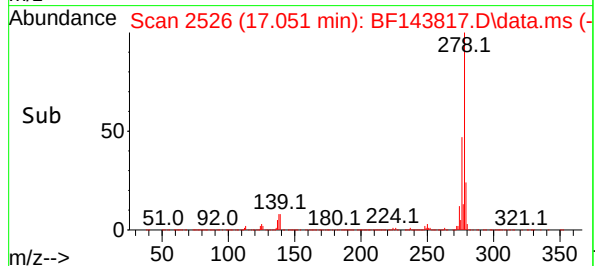
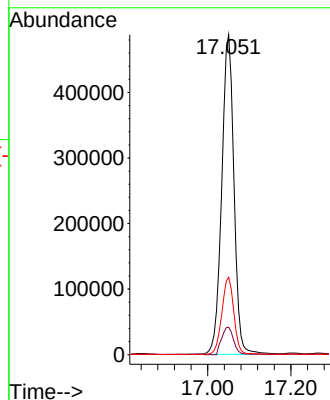
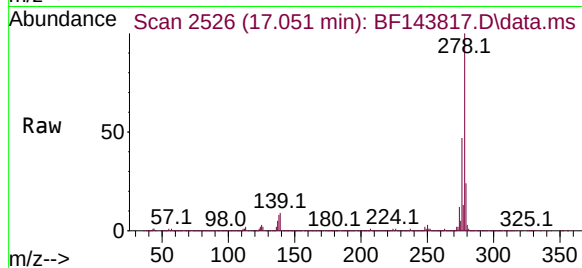
Tgt Ion:278 Resp: 999487

Ion Ratio Lower Upper

278 100

139 8.6 6.7 10.1

279 24.2 19.3 28.9



#92

Benzo(g,h,i)perylene

Concen: 33.924 ng

RT: 17.480 min Scan# 2599

Delta R.T. -0.024 min

Lab File: BF143817.D

Acq: 25 Sep 2025 21:50

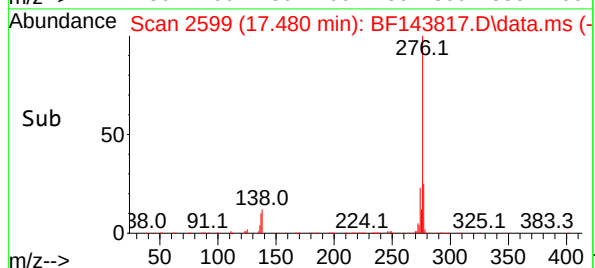
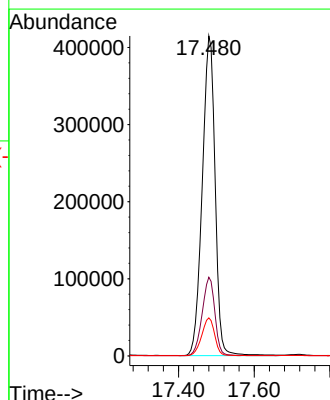
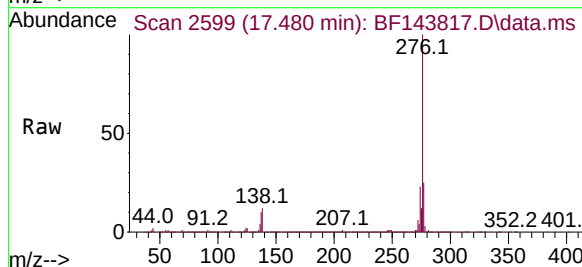
Tgt Ion:276 Resp: 973139

Ion Ratio Lower Upper

276 100

277 24.6 19.6 29.4

138 11.9 9.2 13.8



## Report of Analysis

|                    |                        |                 |                  |
|--------------------|------------------------|-----------------|------------------|
| Client:            | Weston Solutions, Inc. | Date Collected: | 09/23/25         |
| Project:           | RFP 916                | Date Received:  | 09/23/25         |
| Client Sample ID:  | EME-TS14-01MSD         | SDG No.:        | Q3178            |
| Lab Sample ID:     | Q3178-03MSD            | Matrix:         | SOIL             |
| Analytical Method: | 8270E                  | % Solid:        | 71.4             |
| Sample Wt/Vol:     | 30.05 Units: g         | Final Vol:      | 1000 uL          |
| Soil Aliquot Vol:  | uL                     | Test:           | SVOC-TCL BNA -20 |
| Extraction Type :  | Decanted : N           | Level :         | LOW              |
| Injection Volume : | GPC Factor : 1.0       | GPC Cleanup :   | N PH :           |
| Prep Method :      | SW3541                 |                 |                  |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BF143818.D        | 1         | 09/25/25 09:25 | 09/25/25 22:20 | PB169827      |

| CAS Number     | Parameter                   | Conc. | Qualifier | MDL  | LOQ / CRQL | Units(Dry Weight) |
|----------------|-----------------------------|-------|-----------|------|------------|-------------------|
| <b>TARGETS</b> |                             |       |           |      |            |                   |
| 100-52-7       | Benzaldehyde                | 1500  |           | 220  | 460        | ug/Kg             |
| 108-95-2       | Phenol                      | 2400  |           | 30.9 | 240        | ug/Kg             |
| 111-44-4       | bis(2-Chloroethyl)ether     | 2200  |           | 34.0 | 240        | ug/Kg             |
| 95-57-8        | 2-Chlorophenol              | 2300  |           | 34.1 | 240        | ug/Kg             |
| 95-48-7        | 2-Methylphenol              | 2300  |           | 41.8 | 240        | ug/Kg             |
| 108-60-1       | 2,2-oxybis(1-Chloropropane) | 2100  |           | 52.4 | 240        | ug/Kg             |
| 98-86-2        | Acetophenone                | 2600  |           | 41.2 | 240        | ug/Kg             |
| 65794-96-9     | 3+4-Methylphenols           | 2300  |           | 57.5 | 460        | ug/Kg             |
| 621-64-7       | n-Nitroso-di-n-propylamine  | 2300  |           | 66.3 | 110        | ug/Kg             |
| 67-72-1        | Hexachloroethane            | 2100  |           | 24.6 | 240        | ug/Kg             |
| 98-95-3        | Nitrobenzene                | 2400  |           | 25.6 | 240        | ug/Kg             |
| 78-59-1        | Isophorone                  | 2400  |           | 45.9 | 240        | ug/Kg             |
| 88-75-5        | 2-Nitrophenol               | 2600  |           | 81.4 | 240        | ug/Kg             |
| 105-67-9       | 2,4-Dimethylphenol          | 2600  |           | 90.6 | 240        | ug/Kg             |
| 111-91-1       | bis(2-Chloroethoxy)methane  | 2300  |           | 43.1 | 240        | ug/Kg             |
| 120-83-2       | 2,4-Dichlorophenol          | 2300  |           | 39.6 | 240        | ug/Kg             |
| 91-20-3        | Naphthalene                 | 2200  |           | 31.7 | 240        | ug/Kg             |
| 106-47-8       | 4-Chloroaniline             | 880   |           | 49.5 | 240        | ug/Kg             |
| 87-68-3        | Hexachlorobutadiene         | 2200  |           | 35.4 | 240        | ug/Kg             |
| 105-60-2       | Caprolactam                 | 2900  |           | 72.8 | 460        | ug/Kg             |
| 59-50-7        | 4-Chloro-3-methylphenol     | 2400  |           | 40.1 | 240        | ug/Kg             |
| 91-57-6        | 2-Methylnaphthalene         | 2100  |           | 35.8 | 240        | ug/Kg             |
| 77-47-4        | Hexachlorocyclopentadiene   | 4000  | E         | 160  | 460        | ug/Kg             |
| 88-06-2        | 2,4,6-Trichlorophenol       | 2500  |           | 27.7 | 240        | ug/Kg             |
| 95-95-4        | 2,4,5-Trichlorophenol       | 2400  |           | 40.7 | 240        | ug/Kg             |
| 92-52-4        | 1,1-Biphenyl                | 2500  |           | 30.5 | 240        | ug/Kg             |
| 91-58-7        | 2-Chloronaphthalene         | 2200  |           | 31.5 | 240        | ug/Kg             |
| 88-74-4        | 2-Nitroaniline              | 2900  |           | 67.3 | 240        | ug/Kg             |
| 131-11-3       | Dimethylphthalate           | 2500  |           | 37.9 | 240        | ug/Kg             |



## Report of Analysis

|                    |                        |                 |                              |
|--------------------|------------------------|-----------------|------------------------------|
| Client:            | Weston Solutions, Inc. | Date Collected: | 09/23/25                     |
| Project:           | RFP 916                | Date Received:  | 09/23/25                     |
| Client Sample ID:  | EME-TS14-01MSD         | SDG No.:        | Q3178                        |
| Lab Sample ID:     | Q3178-03MSD            | Matrix:         | SOIL                         |
| Analytical Method: | 8270E                  | % Solid:        | 71.4                         |
| Sample Wt/Vol:     | 30.05      Units:    g | Final Vol:      | 1000                      uL |
| Soil Aliquot Vol:  | uL                     | Test:           | SVOC-TCL BNA -20             |
| Extraction Type :  | Decanted :      N      | Level :         | LOW                          |
| Injection Volume : | GPC Factor :    1.0    | GPC Cleanup :   | N                      PH :  |
| Prep Method :      | SW3541                 |                 |                              |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BF143818.D        | 1         | 09/25/25 09:25 | 09/25/25 22:20 | PB169827      |

| CAS Number | Parameter                  | Conc. | Qualifier | MDL  | LOQ / CRQL | Units(Dry Weight) |
|------------|----------------------------|-------|-----------|------|------------|-------------------|
| 208-96-8   | Acenaphthylene             | 2600  |           | 40.4 | 240        | ug/Kg             |
| 606-20-2   | 2,6-Dinitrotoluene         | 3200  |           | 47.0 | 240        | ug/Kg             |
| 99-09-2    | 3-Nitroaniline             | 1800  |           | 64.3 | 240        | ug/Kg             |
| 83-32-9    | Acenaphthene               | 2300  |           | 29.8 | 240        | ug/Kg             |
| 51-28-5    | 2,4-Dinitrophenol          | 3100  |           | 320  | 460        | ug/Kg             |
| 100-02-7   | 4-Nitrophenol              | 5400  | E         | 150  | 460        | ug/Kg             |
| 132-64-9   | Dibenzofuran               | 2300  |           | 31.7 | 240        | ug/Kg             |
| 121-14-2   | 2,4-Dinitrotoluene         | 2700  |           | 70.1 | 240        | ug/Kg             |
| 84-66-2    | Diethylphthalate           | 2400  |           | 39.6 | 240        | ug/Kg             |
| 7005-72-3  | 4-Chlorophenyl-phenylether | 2300  |           | 37.3 | 240        | ug/Kg             |
| 86-73-7    | Fluorene                   | 2300  |           | 35.4 | 240        | ug/Kg             |
| 100-01-6   | 4-Nitroaniline             | 2500  |           | 89.8 | 240        | ug/Kg             |
| 534-52-1   | 4,6-Dinitro-2-methylphenol | 1900  |           | 140  | 460        | ug/Kg             |
| 86-30-6    | n-Nitrosodiphenylamine     | 2300  |           | 46.0 | 240        | ug/Kg             |
| 101-55-3   | 4-Bromophenyl-phenylether  | 2300  |           | 38.9 | 240        | ug/Kg             |
| 118-74-1   | Hexachlorobenzene          | 2300  |           | 35.4 | 240        | ug/Kg             |
| 1912-24-9  | Atrazine                   | 2500  |           | 47.5 | 240        | ug/Kg             |
| 87-86-5    | Pentachlorophenol          | 5400  | E         | 71.7 | 460        | ug/Kg             |
| 85-01-8    | Phenanthrene               | 2300  |           | 29.2 | 240        | ug/Kg             |
| 120-12-7   | Anthracene                 | 2300  |           | 46.6 | 240        | ug/Kg             |
| 86-74-8    | Carbazole                  | 2400  |           | 43.6 | 240        | ug/Kg             |
| 84-74-2    | Di-n-butylphthalate        | 2500  |           | 67.0 | 240        | ug/Kg             |
| 206-44-0   | Fluoranthene               | 2600  |           | 41.9 | 240        | ug/Kg             |
| 129-00-0   | Pyrene                     | 2300  |           | 50.3 | 240        | ug/Kg             |
| 85-68-7    | Butylbenzylphthalate       | 2700  |           | 99.8 | 240        | ug/Kg             |
| 91-94-1    | 3,3-Dichlorobenzidine      | 1900  |           | 51.3 | 460        | ug/Kg             |
| 56-55-3    | Benzo(a)anthracene         | 2400  |           | 32.2 | 240        | ug/Kg             |
| 218-01-9   | Chrysene                   | 2300  |           | 27.8 | 240        | ug/Kg             |
| 117-81-7   | Bis(2-ethylhexyl)phthalate | 2300  |           | 82.8 | 240        | ug/Kg             |
| 117-84-0   | Di-n-octyl phthalate       | 2300  |           | 120  | 460        | ug/Kg             |
| 205-99-2   | Benzo(b)fluoranthene       | 3200  |           | 26.6 | 240        | ug/Kg             |

## Report of Analysis

|                    |                        |                 |                              |
|--------------------|------------------------|-----------------|------------------------------|
| Client:            | Weston Solutions, Inc. | Date Collected: | 09/23/25                     |
| Project:           | RFP 916                | Date Received:  | 09/23/25                     |
| Client Sample ID:  | EME-TS14-01MSD         | SDG No.:        | Q3178                        |
| Lab Sample ID:     | Q3178-03MSD            | Matrix:         | SOIL                         |
| Analytical Method: | 8270E                  | % Solid:        | 71.4                         |
| Sample Wt/Vol:     | 30.05      Units:    g | Final Vol:      | 1000                      uL |
| Soil Aliquot Vol:  | uL                     | Test:           | SVOC-TCL BNA -20             |
| Extraction Type :  | Decanted :      N      | Level :         | LOW                          |
| Injection Volume : | GPC Factor :    1.0    | GPC Cleanup :   | N                      PH :  |
| Prep Method :      | SW3541                 |                 |                              |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BF143818.D        | 1         | 09/25/25 09:25 | 09/25/25 22:20 | PB169827      |

| CAS Number                | Parameter                  | Conc.  | Qualifier | MDL      | LOQ / CRQL | Units(Dry Weight) |
|---------------------------|----------------------------|--------|-----------|----------|------------|-------------------|
| 207-08-9                  | Benzo(k)fluoranthene       | 2400   |           | 31.3     | 240        | ug/Kg             |
| 50-32-8                   | Benzo(a)pyrene             | 2600   |           | 41.2     | 240        | ug/Kg             |
| 193-39-5                  | Indeno(1,2,3-cd)pyrene     | 1700   |           | 40.7     | 240        | ug/Kg             |
| 53-70-3                   | Dibenzo(a,h)anthracene     | 1700   |           | 38.3     | 240        | ug/Kg             |
| 191-24-2                  | Benzo(g,h,i)perylene       | 1700   |           | 35.9     | 240        | ug/Kg             |
| 95-94-3                   | 1,2,4,5-Tetrachlorobenzene | 2500   |           | 35.8     | 240        | ug/Kg             |
| 123-91-1                  | 1,4-Dioxane                | 2100   |           | 63.2     | 240        | ug/Kg             |
| 58-90-2                   | 2,3,4,6-Tetrachlorophenol  | 2800   |           | 38.3     | 240        | ug/Kg             |
| <b>SURROGATES</b>         |                            |        |           |          |            |                   |
| 367-12-4                  | 2-Fluorophenol             | 88.1   |           | 18 - 112 | 59%        | SPK: 150          |
| 13127-88-3                | Phenol-d6                  | 92.7   |           | 15 - 107 | 62%        | SPK: 150          |
| 4165-60-0                 | Nitrobenzene-d5            | 65.6   |           | 18 - 107 | 66%        | SPK: 100          |
| 321-60-8                  | 2-Fluorobiphenyl           | 51.9   |           | 20 - 109 | 52%        | SPK: 100          |
| 118-79-6                  | 2,4,6-Tribromophenol       | 80.5   |           | 10 - 116 | 54%        | SPK: 150          |
| 1718-51-0                 | Terphenyl-d14              | 53.1   |           | 10 - 105 | 53%        | SPK: 100          |
| <b>INTERNAL STANDARDS</b> |                            |        |           |          |            |                   |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4     | 126000 | 6.887     |          |            |                   |
| 1146-65-2                 | Naphthalene-d8             | 459000 | 8.169     |          |            |                   |
| 15067-26-2                | Acenaphthene-d10           | 224000 | 9.928     |          |            |                   |
| 1517-22-2                 | Phenanthrene-d10           | 356000 | 11.416    |          |            |                   |
| 1719-03-5                 | Chrysene-d12               | 436000 | 14.063    |          |            |                   |
| 1520-96-3                 | Perylene-d12               | 435000 | 15.533    |          |            |                   |

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\_F\Data\BF092525\  
 Data File : BF143818.D  
 Acq On : 25 Sep 2025 22:20  
 Operator : RC/JU  
 Sample : Q3178-03MSD  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 EME-TS14-01MSD

Quant Time: Sep 25 23:26:56 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF092325.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Sep 24 05:00:00 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.887  | 152  | 126353   | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8            | 8.169  | 136  | 459229   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10          | 9.928  | 164  | 224210   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10          | 11.416 | 188  | 355718   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12              | 14.063 | 240  | 435935   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12              | 15.533 | 264  | 434629   | 20.000 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.499  | 112  | 685500   | 88.144 | ng    | 0.00     |
| 7) Phenol-d6                  | 6.504  | 99   | 833354   | 92.741 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 7.445  | 82   | 492420   | 65.636 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 10.716 | 330  | 267172   | 80.479 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 9.245  | 172  | 745279   | 51.871 | ng    | 0.00     |
| 79) Terphenyl-d14             | 12.998 | 244  | 1139227  | 53.148 | ng    | 0.00     |
| Target Compounds              |        |      |          |        |       |          |
|                               |        |      |          |        |       | Qvalue   |
| 2) 1,4-Dioxane                | 2.705  | 88   | 170432   | 45.786 | ng    | 99       |
| 3) Pyridine                   | 3.463  | 79   | 462364   | 46.016 | ng    | 95       |
| 4) n-Nitrosodimethylamine     | 3.410  | 42   | 255853   | 50.782 | ng    | 92       |
| 6) Aniline                    | 6.546  | 93   | 368587   | 28.262 | ng    | 100      |
| 8) 2-Chlorophenol             | 6.669  | 128  | 387841   | 48.714 | ng    | 99       |
| 9) Benzaldehyde               | 6.434  | 77   | 252391   | 32.074 | ng    | 97       |
| 10) Phenol                    | 6.522  | 94   | 527651   | 50.519 | ng    | 99       |
| 11) bis(2-Chloroethyl)ether   | 6.616  | 93   | 393866   | 48.107 | ng    | 99       |
| 12) 1,3-Dichlorobenzene       | 6.828  | 146  | 438833   | 47.473 | ng    | 99       |
| 13) 1,4-Dichlorobenzene       | 6.904  | 146  | 442997   | 48.021 | ng    | 99       |
| 14) 1,2-Dichlorobenzene       | 7.057  | 146  | 424914   | 48.633 | ng    | 100      |
| 15) Benzyl Alcohol            | 7.022  | 79   | 355202   | 54.707 | ng    | 99       |
| 16) 2,2'-oxybis(1-Chloropr... | 7.157  | 45   | 873470   | 44.991 | ng    | 98       |
| 17) 2-Methylphenol            | 7.134  | 107  | 309721   | 50.248 | ng    | 99       |
| 18) Hexachloroethane          | 7.398  | 117  | 149269   | 46.010 | ng    | 97       |
| 19) n-Nitroso-di-n-propyla... | 7.293  | 70   | 281772   | 48.763 | ng    | 97       |
| 20) 3+4-Methylphenols         | 7.287  | 107  | 378153   | 50.378 | ng    | # 76     |
| 22) Acetophenone              | 7.293  | 105  | 557233   | 55.246 | ng    | 100      |
| 24) Nitrobenzene              | 7.463  | 77   | 434021   | 52.193 | ng    | 98       |
| 25) Isophorone                | 7.704  | 82   | 762138   | 52.131 | ng    | 100      |
| 26) 2-Nitrophenol             | 7.781  | 139  | 194055   | 56.341 | ng    | 97       |
| 27) 2,4-Dimethylphenol        | 7.816  | 122  | 369228   | 56.505 | ng    | 99       |
| 28) bis(2-Chloroethoxy)met... | 7.916  | 93   | 462198   | 48.661 | ng    | 99       |
| 29) 2,4-Dichlorophenol        | 8.022  | 162  | 320002   | 49.770 | ng    | 99       |
| 30) 1,2,4-Trichlorobenzene    | 8.110  | 180  | 340385   | 51.013 | ng    | 99       |
| 31) Naphthalene               | 8.192  | 128  | 1051563  | 47.833 | ng    | 100      |
| 32) Benzoic acid              | 7.916  | 122  | 230335   | 73.059 | ng    | 95       |
| 33) 4-Chloroaniline           | 8.234  | 127  | 145520   | 18.836 | ng    | 99       |
| 34) Hexachlorobutadiene       | 8.310  | 225  | 237191   | 47.684 | ng    | 99       |
| 35) Caprolactam               | 8.598  | 113  | 102749   | 62.522 | ng    | 93       |
| 36) 4-Chloro-3-methylphenol   | 8.710  | 107  | 313113   | 51.924 | ng    | 98       |
| 37) 2-Methylnaphthalene       | 8.881  | 142  | 621572   | 44.341 | ng    | 100      |
| 38) 1-Methylnaphthalene       | 8.981  | 142  | 632349   | 47.129 | ng    | 98       |
| 40) 1,2,4,5-Tetrachloroben... | 9.045  | 216  | 356539   | 52.694 | ng    | 100      |
| 41) Hexachlorocyclopentadiene | 9.034  | 237  | 367206   | 85.631 | ng    | 100      |
| 43) 2,4,6-Trichlorophenol     | 9.157  | 196  | 226360   | 53.427 | ng    | 99       |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF092525\  
 Data File : BF143818.D  
 Acq On : 25 Sep 2025 22:20  
 Operator : RC/JU  
 Sample : Q3178-03MSD  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 EME-TS14-01MSD

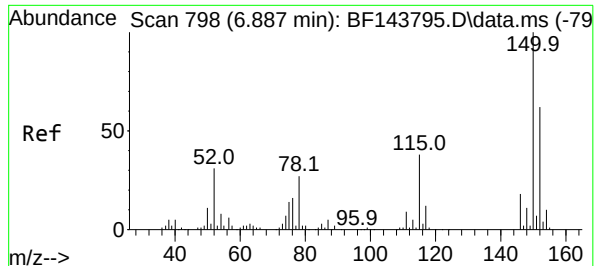
Quant Time: Sep 25 23:26:56 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF092325.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Sep 24 05:00:00 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 44) 2,4,5-Trichlorophenol     | 9.192  | 196  | 224962   | 50.763  | ng    | 99       |
| 46) 1,1'-Biphenyl             | 9.345  | 154  | 873337   | 53.810  | ng    | 99       |
| 47) 2-Chloronaphthalene       | 9.369  | 162  | 627741   | 48.050  | ng    | 99       |
| 48) 2-Nitroaniline            | 9.463  | 65   | 244411   | 61.899  | ng    | 99       |
| 49) Acenaphthylene            | 9.787  | 152  | 1003047  | 55.772  | ng    | 100      |
| 50) Dimethylphthalate         | 9.645  | 163  | 727859   | 53.262  | ng    | 100      |
| 51) 2,6-Dinitrotoluene        | 9.704  | 165  | 152551   | 67.944  | ng    | 97       |
| 52) Acenaphthene              | 9.957  | 154  | 574079   | 48.506  | ng    | 100      |
| 53) 3-Nitroaniline            | 9.869  | 138  | 107230   | 39.401  | ng    | 99       |
| 54) 2,4-Dinitrophenol         | 9.975  | 184  | 58390    | 67.109  | ng    | # 76     |
| 55) Dibenzofuran              | 10.134 | 168  | 814738   | 48.682  | ng    | 99       |
| 56) 4-Nitrophenol             | 10.028 | 139  | 252644   | 115.199 | ng    | 91       |
| 57) 2,4-Dinitrotoluene        | 10.110 | 165  | 198890   | 58.969  | ng    | 95       |
| 58) Fluorene                  | 10.475 | 166  | 609725   | 49.006  | ng    | 99       |
| 59) 2,3,4,6-Tetrachlorophenol | 10.245 | 232  | 224793   | 59.212  | ng    | 97       |
| 60) Diethylphthalate          | 10.345 | 149  | 663203   | 51.844  | ng    | 99       |
| 61) 4-Chlorophenyl-phenyle... | 10.469 | 204  | 309245   | 48.780  | ng    | 96       |
| 62) 4-Nitroaniline            | 10.486 | 138  | 135264   | 52.859  | ng    | 98       |
| 63) Azobenzene                | 10.628 | 77   | 686022   | 50.885  | ng    | 97       |
| 65) 4,6-Dinitro-2-methylph... | 10.510 | 198  | 49470    | 40.135  | ng    | 95       |
| 66) n-Nitrosodiphenylamine    | 10.581 | 169  | 580810   | 49.648  | ng    | 100      |
| 67) 4-Bromophenyl-phenylether | 10.957 | 248  | 297735   | 49.115  | ng    | 97       |
| 68) Hexachlorobenzene         | 11.022 | 284  | 408424   | 48.889  | ng    | 99       |
| 69) Atrazine                  | 11.110 | 200  | 182138   | 53.765  | ng    | 99       |
| 70) Pentachlorophenol         | 11.216 | 266  | 477417   | 114.806 | ng    | 100      |
| 71) Phenanthrene              | 11.439 | 178  | 901235   | 49.349  | ng    | 100      |
| 72) Anthracene                | 11.492 | 178  | 918987   | 50.167  | ng    | 99       |
| 73) Carbazole                 | 11.645 | 167  | 832102   | 51.953  | ng    | 100      |
| 74) Di-n-butylphthalate       | 11.975 | 149  | 972765   | 52.810  | ng    | 100      |
| 75) Fluoranthene              | 12.628 | 202  | 1038840  | 56.557  | ng    | 99       |
| 77) Benzidine                 | 12.751 | 184  | 423409   | 39.859  | ng    | 100      |
| 78) Pyrene                    | 12.857 | 202  | 1076385  | 50.222  | ng    | 99       |
| 80) Butylbenzylphthalate      | 13.475 | 149  | 431860   | 58.241  | ng    | 98       |
| 81) Benzo(a)anthracene        | 14.051 | 228  | 1197901  | 51.150  | ng    | 99       |
| 82) 3,3'-Dichlorobenzidine    | 14.010 | 252  | 415267   | 40.930  | ng    | 99       |
| 83) Chrysene                  | 14.086 | 228  | 1056176  | 49.840  | ng    | 99       |
| 84) Bis(2-ethylhexyl)phtha... | 14.039 | 149  | 541890   | 49.858  | ng    | 100      |
| 85) Di-n-octyl phthalate      | 14.651 | 149  | 957368   | 48.560  | ng    | 97       |
| 87) Indeno(1,2,3-cd)pyrene    | 17.033 | 276  | 1231964  | 37.358  | ng    | 99       |
| 88) Benzo(b)fluoranthene      | 15.104 | 252  | 1498147  | 67.687  | ng    | 99       |
| 89) Benzo(k)fluoranthene      | 15.133 | 252  | 1149445  | 51.691  | ng    | 100      |
| 90) Benzo(a)pyrene            | 15.474 | 252  | 1167187  | 56.101  | ng    | 99       |
| 91) Dibenzo(a,h)anthracene    | 17.051 | 278  | 1002210  | 37.157  | ng    | 99       |
| 92) Benzo(g,h,i)perylene      | 17.486 | 276  | 972031   | 37.385  | ng    | 99       |

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

**Instrument :**  
BNA\_F  
**ClientSampleId :**  
EME-TS14-01MSD

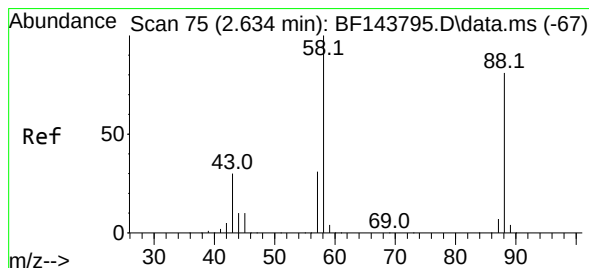
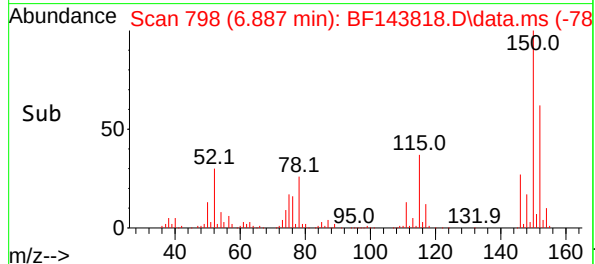
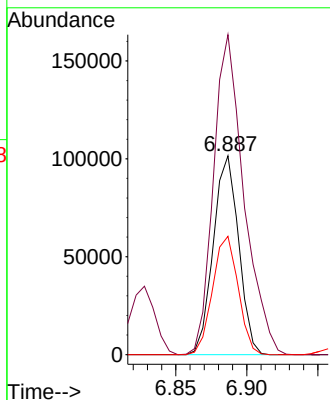
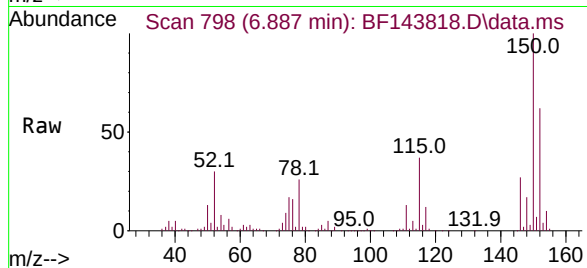
[illegible]



#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.887 min Scan# 79  
Delta R.T. -0.000 min  
Lab File: BF143818.D  
Acq: 25 Sep 2025 22:20

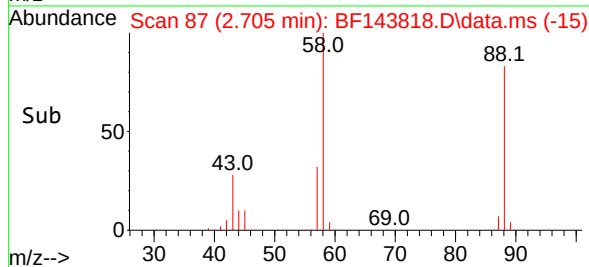
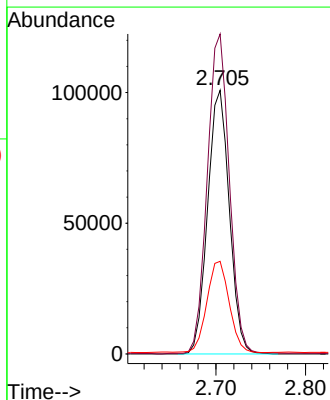
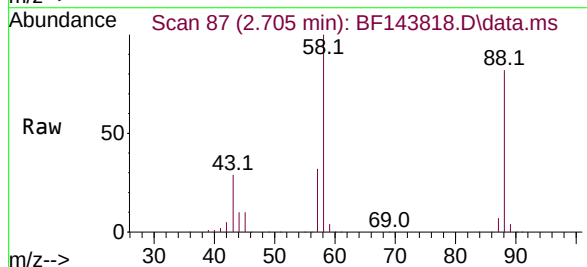
Instrument :  
BNA\_F  
ClientSampleId :  
EME-TS14-01MSD

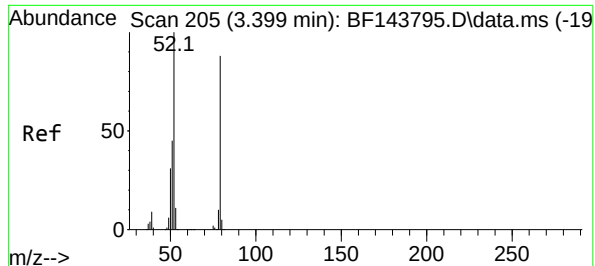
Tgt Ion:152 Resp: 126353  
Ion Ratio Lower Upper  
152 100  
150 160.9 129.6 194.4  
115 59.5 49.0 73.4



#2  
1,4-Dioxane  
Concen: 45.786 ng  
RT: 2.705 min Scan# 87  
Delta R.T. 0.071 min  
Lab File: BF143818.D  
Acq: 25 Sep 2025 22:20

Tgt Ion: 88 Resp: 170432  
Ion Ratio Lower Upper  
88 100  
58 123.6 99.4 149.2  
43 35.6 30.6 45.8

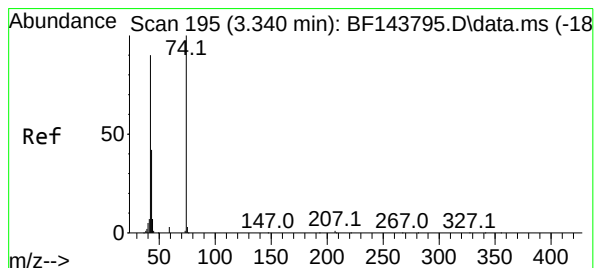
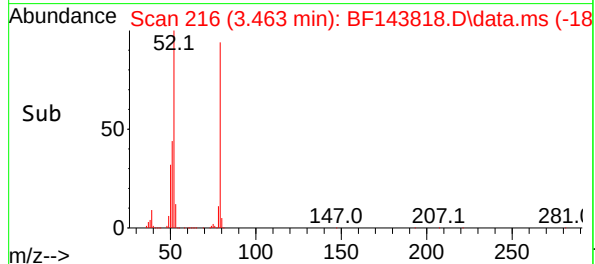
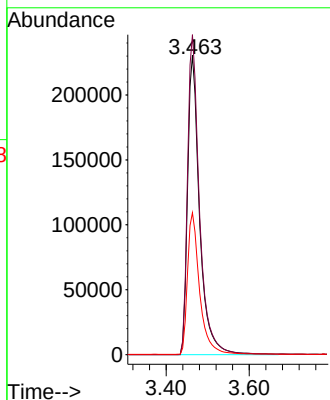
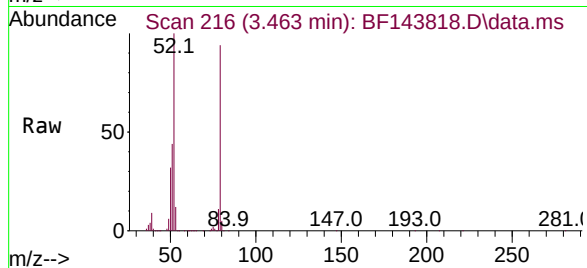




#3  
Pyridine  
Concen: 46.016 ng  
RT: 3.463 min Scan# 21  
Delta R.T. 0.065 min  
Lab File: BF143818.D  
Acq: 25 Sep 2025 22:20

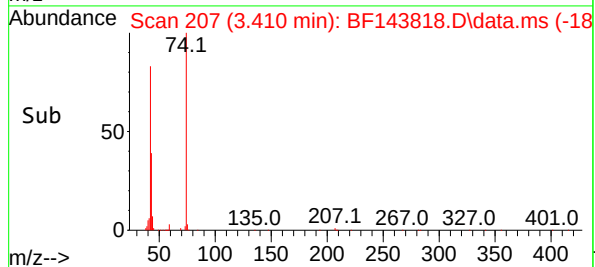
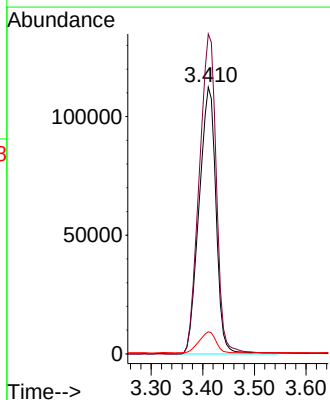
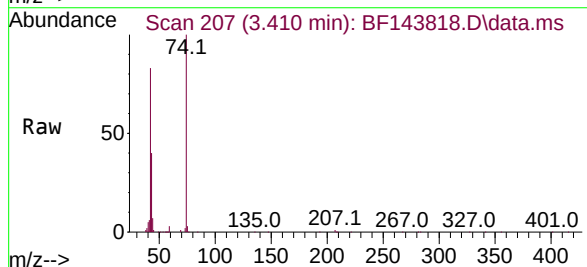
Instrument :  
BNA\_F  
ClientSampleId :  
EME-TS14-01MSD

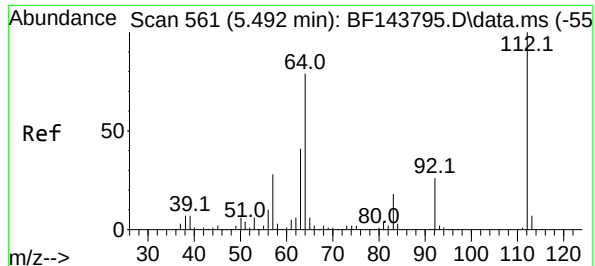
Tgt Ion: 79 Resp: 462364  
Ion Ratio Lower Upper  
79 100  
52 106.9 90.5 135.7  
51 47.4 40.6 61.0



#4  
n-Nitrosodimethylamine  
Concen: 50.782 ng  
RT: 3.410 min Scan# 207  
Delta R.T. 0.053 min  
Lab File: BF143818.D  
Acq: 25 Sep 2025 22:20

Tgt Ion: 42 Resp: 255853  
Ion Ratio Lower Upper  
42 100  
74 120.0 89.1 133.7  
44 8.3 6.4 9.6

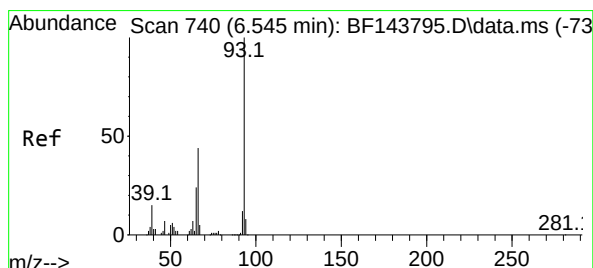
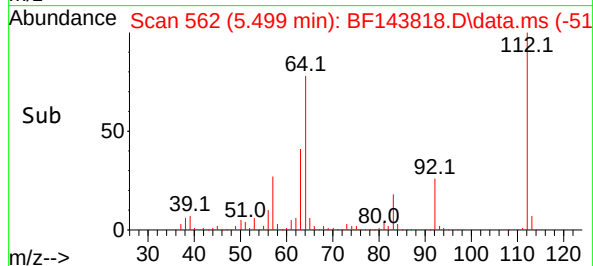
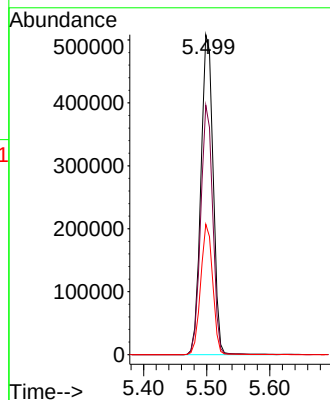
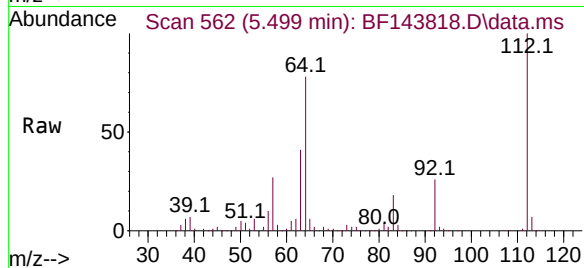




#5  
2-Fluorophenol  
Concen: 88.144 ng  
RT: 5.499 min Scan# 561  
Delta R.T. 0.001 min  
Lab File: BF143818.D  
Acq: 25 Sep 2025 22:20

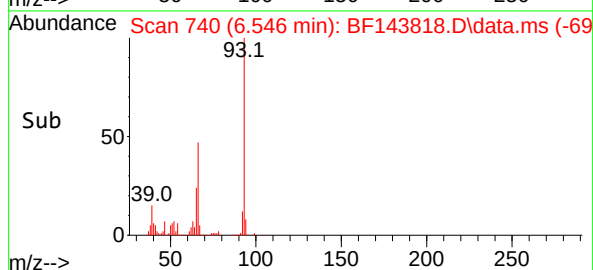
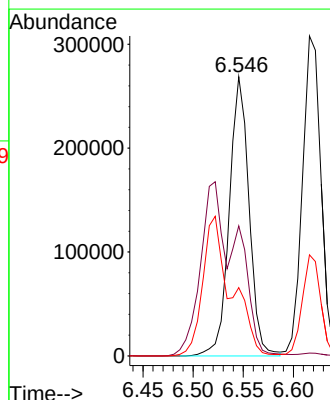
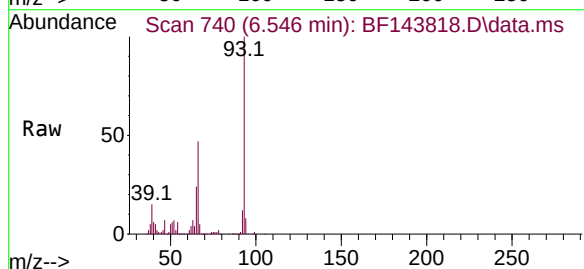
Instrument :  
BNA\_F  
ClientSampleId :  
EME-TS14-01MSD

Tgt Ion:112 Resp: 685500  
Ion Ratio Lower Upper  
112 100  
64 77.9 63.0 94.4  
63 40.7 32.6 49.0

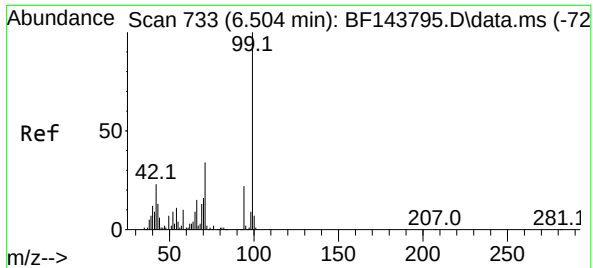


#6  
Aniline  
Concen: 28.262 ng  
RT: 6.546 min Scan# 740  
Delta R.T. -0.006 min  
Lab File: BF143818.D  
Acq: 25 Sep 2025 22:20

Tgt Ion: 93 Resp: 368587  
Ion Ratio Lower Upper  
93 100  
66 46.6 37.1 55.7  
65 24.4 19.4 29.0



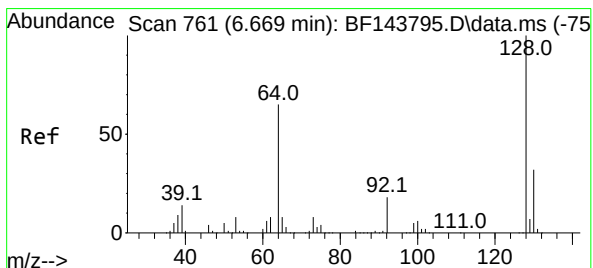
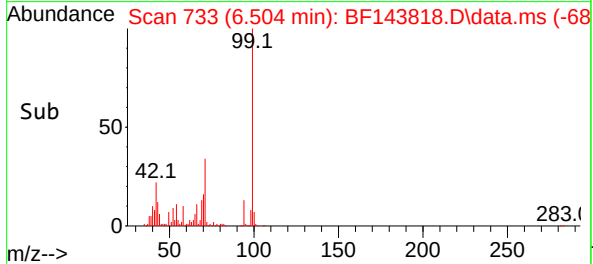
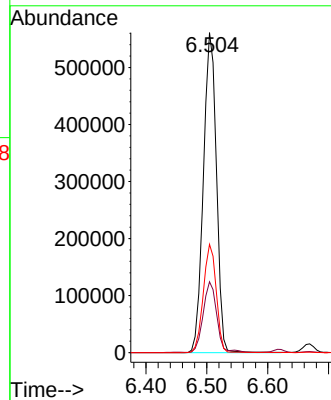
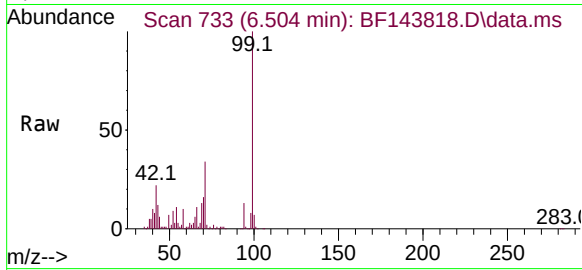




#7  
Phenol-d6  
Concen: 92.741 ng  
RT: 6.504 min Scan# 733  
Delta R.T. -0.006 min  
Lab File: BF143818.D  
Acq: 25 Sep 2025 22:20

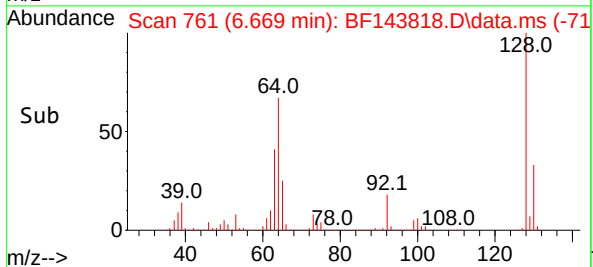
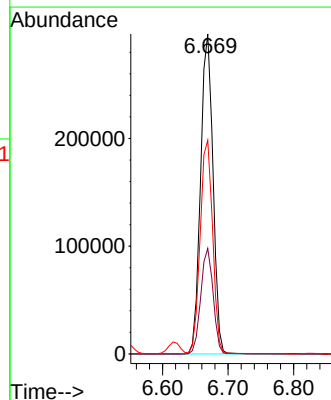
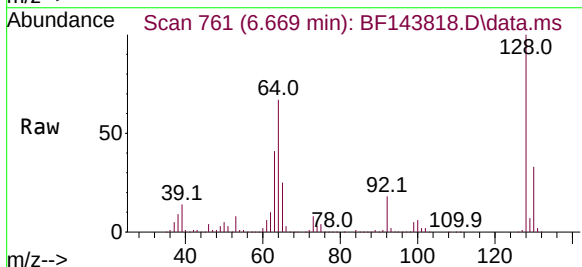
Instrument :  
BNA\_F  
ClientSampleId :  
EME-TS14-01MSD

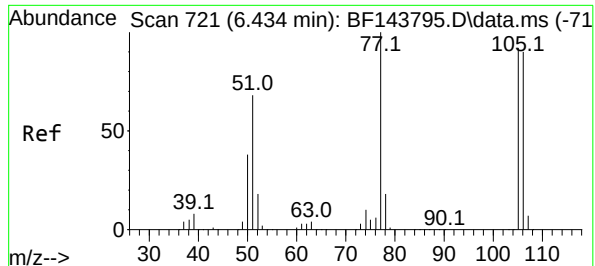
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 99      | 100   |       |       |
| 42      | 22.2  | 18.6  | 28.0  |
| 71      | 33.8  | 27.0  | 40.4  |



#8  
2-Chlorophenol  
Concen: 48.714 ng  
RT: 6.669 min Scan# 761  
Delta R.T. 0.000 min  
Lab File: BF143818.D  
Acq: 25 Sep 2025 22:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 130     | 33.0  | 12.2  | 52.2  |
| 64      | 66.8  | 46.5  | 86.5  |





#9

Benzaldehyde

Concen: 32.074 ng

RT: 6.434 min Scan# 721

Delta R.T. -0.006 min

Lab File: BF143818.D

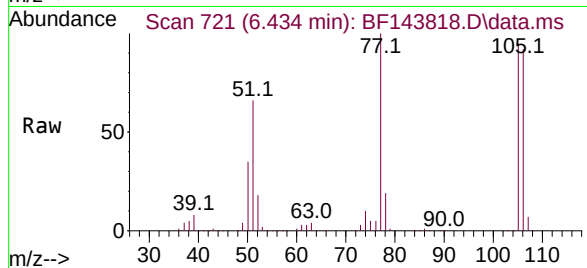
Acq: 25 Sep 2025 22:20

Instrument :

BNA\_F

ClientSampleId :

EME-TS14-01MSD



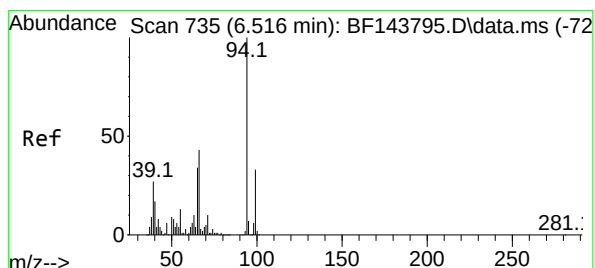
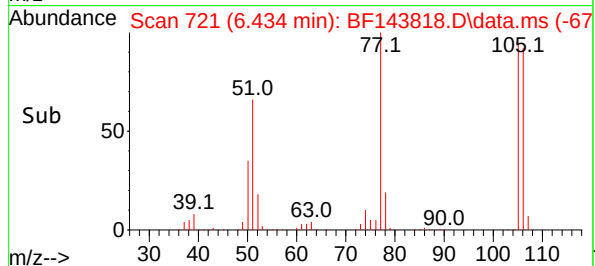
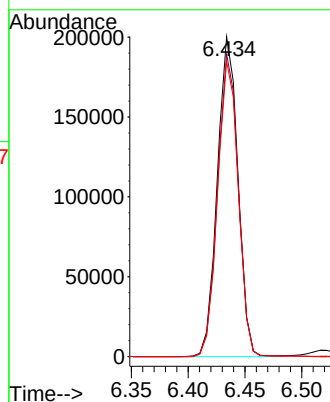
Tgt Ion: 77 Resp: 252391

Ion Ratio Lower Upper

77 100

105 94.5 71.8 111.8

106 92.3 69.8 109.8



#10

Phenol

Concen: 50.519 ng

RT: 6.522 min Scan# 736

Delta R.T. -0.006 min

Lab File: BF143818.D

Acq: 25 Sep 2025 22:20

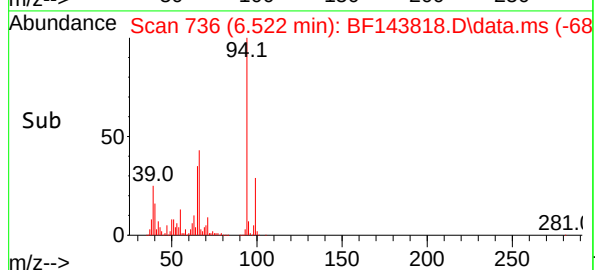
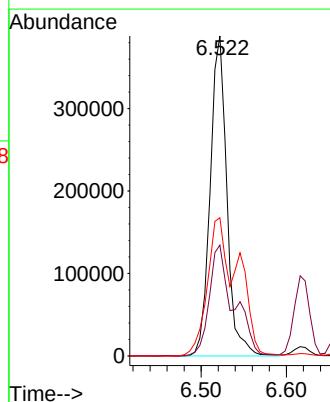
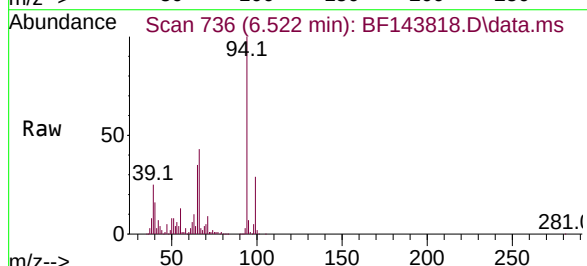
Tgt Ion: 94 Resp: 527651

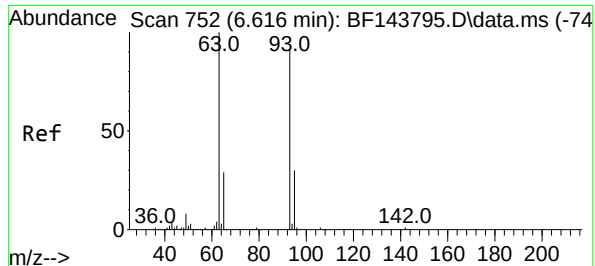
Ion Ratio Lower Upper

94 100

65 34.6 14.2 54.2

66 43.2 24.1 64.1

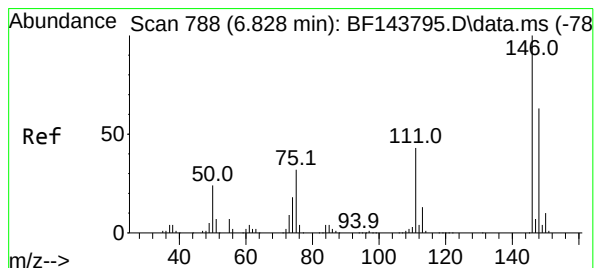
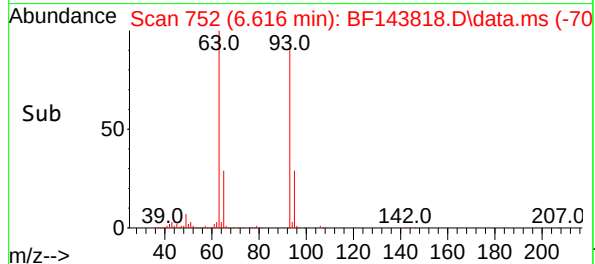
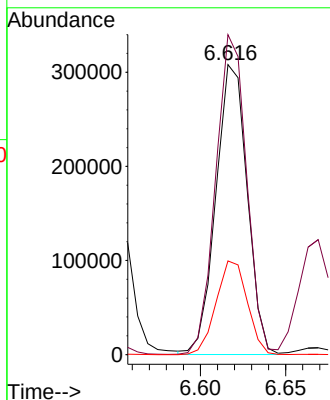
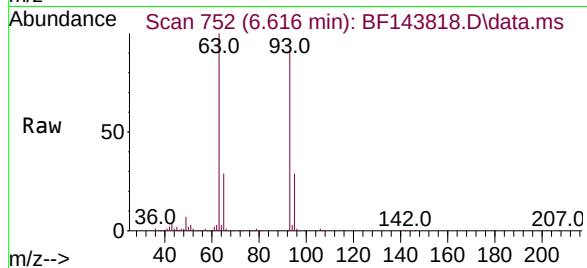




#11  
bis(2-Chloroethyl)ether  
Concen: 48.107 ng  
RT: 6.616 min Scan# 752  
Delta R.T. -0.006 min  
Lab File: BF143818.D  
Acq: 25 Sep 2025 22:20

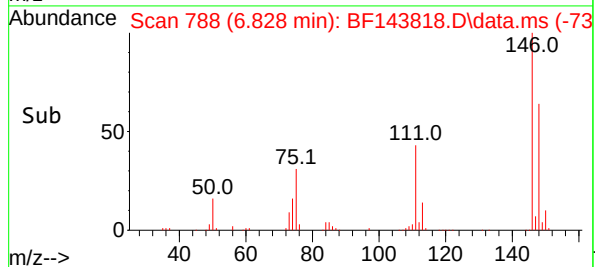
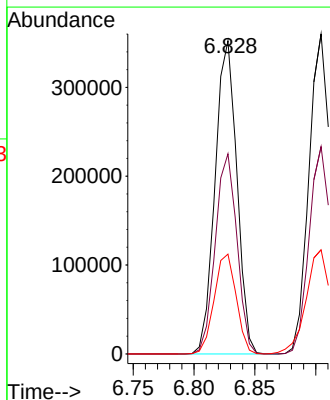
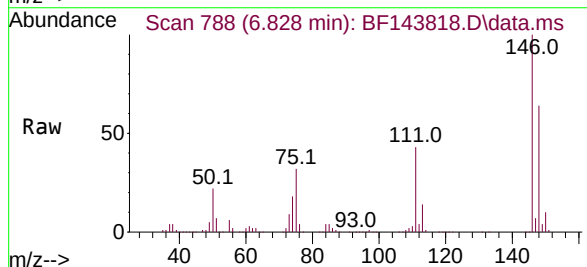
Instrument :  
BNA\_F  
ClientSampleId :  
EME-TS14-01MSD

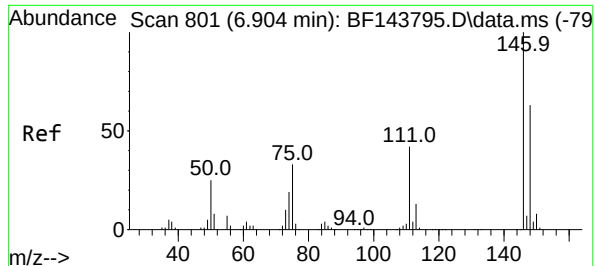
| Tgt Ion: | 93    | Resp: | 393866 |
|----------|-------|-------|--------|
| Ion      | Ratio | Lower | Upper  |
| 93       | 100   |       |        |
| 63       | 110.4 | 89.2  | 129.2  |
| 95       | 32.3  | 12.9  | 52.9   |



#12  
1,3-Dichlorobenzene  
Concen: 47.473 ng  
RT: 6.828 min Scan# 788  
Delta R.T. 0.000 min  
Lab File: BF143818.D  
Acq: 25 Sep 2025 22:20

| Tgt Ion: | 146   | Resp: | 438833 |
|----------|-------|-------|--------|
| Ion      | Ratio | Lower | Upper  |
| 146      | 100   |       |        |
| 148      | 63.9  | 50.4  | 75.6   |
| 75       | 31.8  | 25.6  | 38.4   |





#13

1,4-Dichlorobenzene

Concen: 48.021 ng

RT: 6.904 min Scan# 801

Delta R.T. 0.000 min

Lab File: BF143818.D

Acq: 25 Sep 2025 22:20

Instrument :

BNA\_F

ClientSampleId :

EME-TS14-01MSD

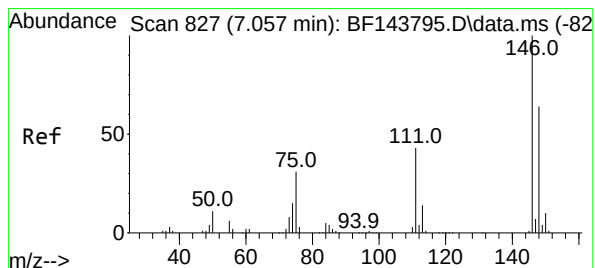
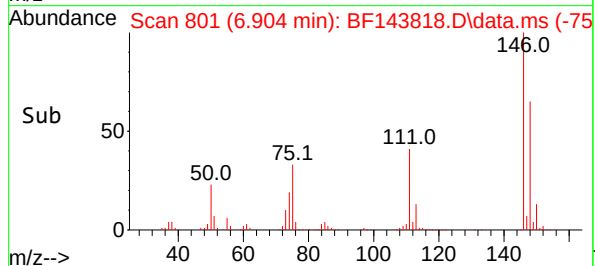
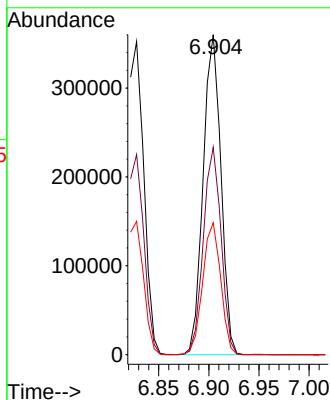
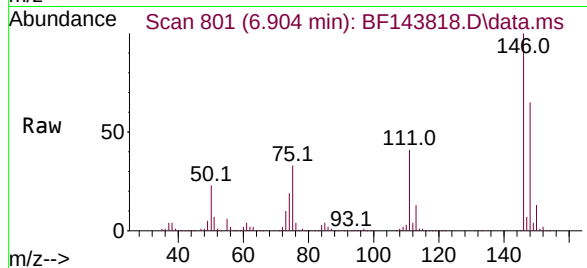
Tgt Ion:146 Resp: 442997

Ion Ratio Lower Upper

146 100

148 64.8 50.7 76.1

111 41.2 33.4 50.2



#14

1,2-Dichlorobenzene

Concen: 48.633 ng

RT: 7.057 min Scan# 827

Delta R.T. 0.000 min

Lab File: BF143818.D

Acq: 25 Sep 2025 22:20

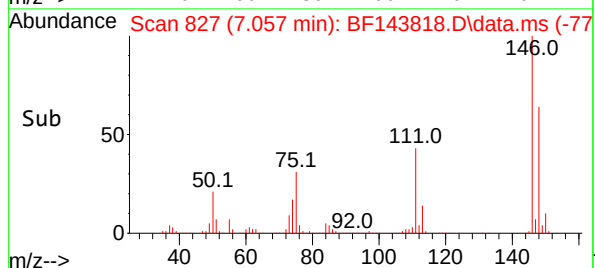
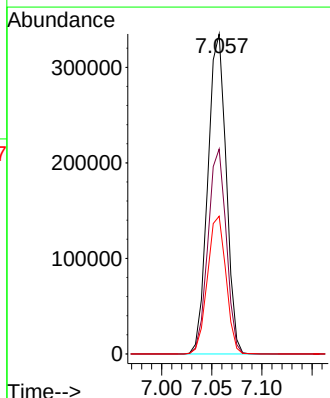
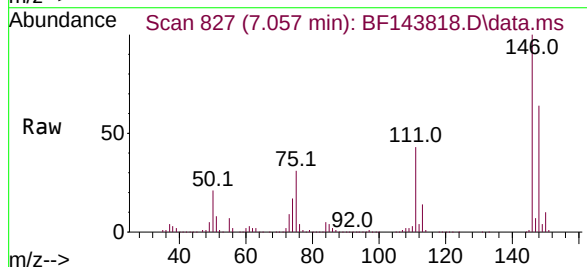
Tgt Ion:146 Resp: 424914

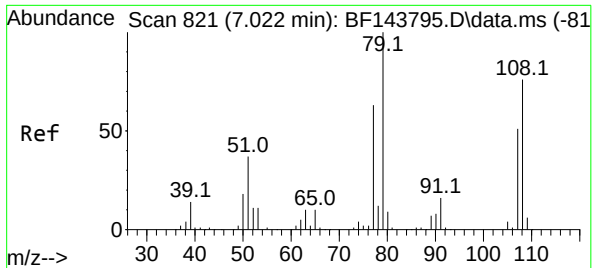
Ion Ratio Lower Upper

146 100

148 64.0 51.1 76.7

111 43.0 34.3 51.5

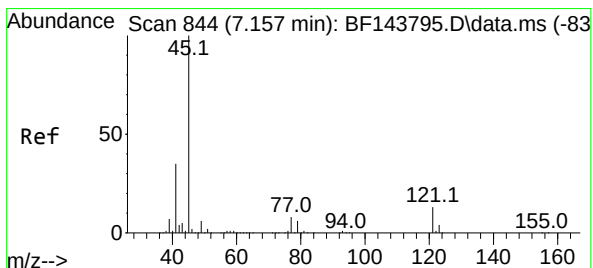
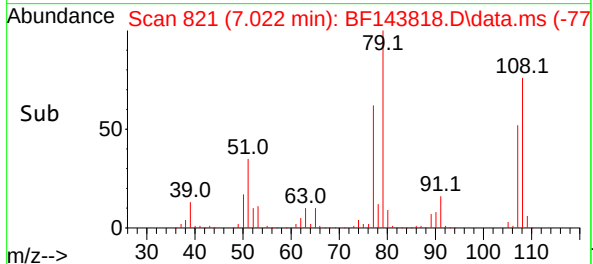
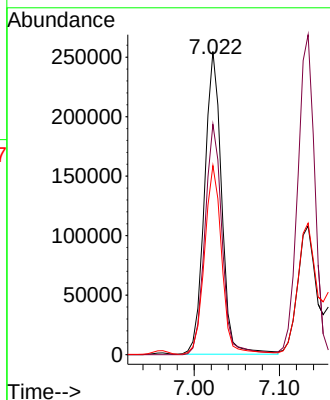
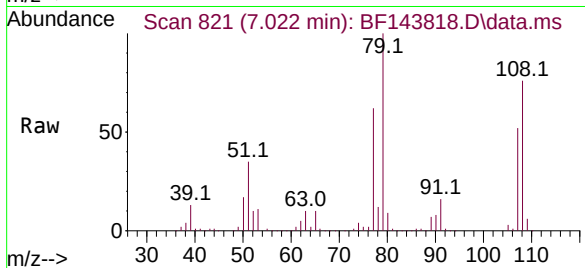




#15  
Benzyl Alcohol  
Concen: 54.707 ng  
RT: 7.022 min Scan# 821  
Delta R.T. -0.006 min  
Lab File: BF143818.D  
Acq: 25 Sep 2025 22:20

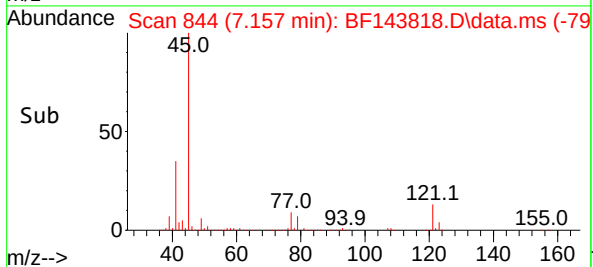
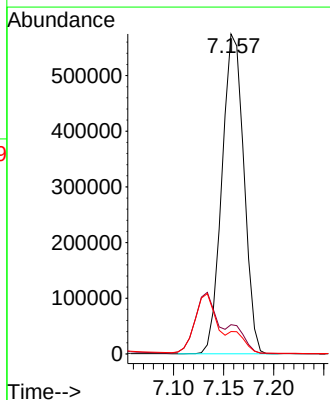
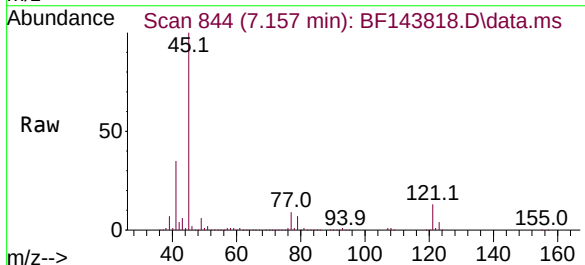
Instrument :  
BNA\_F  
ClientSampleId :  
EME-TS14-01MSD

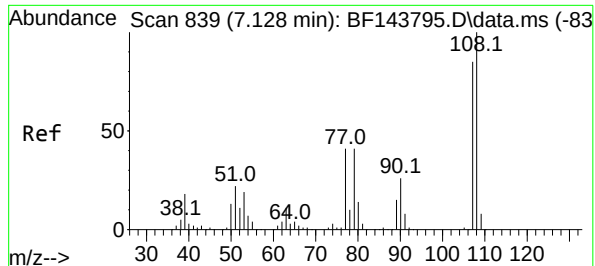
Tgt Ion: 79 Resp: 355202  
Ion Ratio Lower Upper  
79 100  
108 76.0 60.5 90.7  
77 62.3 50.3 75.5



#16  
2,2'-oxybis(1-Chloropropane)  
Concen: 44.991 ng  
RT: 7.157 min Scan# 844  
Delta R.T. 0.000 min  
Lab File: BF143818.D  
Acq: 25 Sep 2025 22:20

Tgt Ion: 45 Resp: 873470  
Ion Ratio Lower Upper  
45 100  
77 9.1 0.0 28.5  
79 7.0 0.0 26.3





#17

2-Methylphenol

Concen: 50.248 ng

RT: 7.134 min Scan# 840

Delta R.T. -0.000 min

Lab File: BF143818.D

Acq: 25 Sep 2025 22:20

Instrument :

BNA\_F

ClientSampleId :

EME-TS14-01MSD

Tgt Ion:107 Resp: 309721

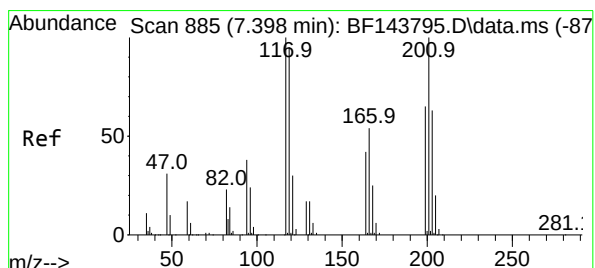
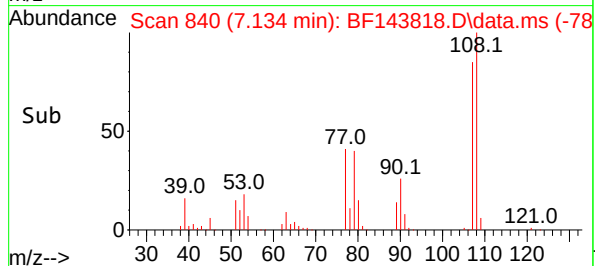
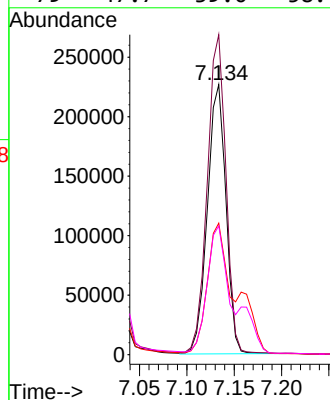
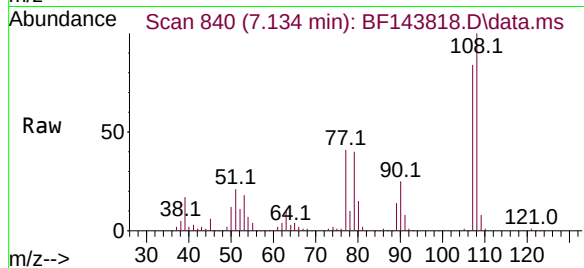
Ion Ratio Lower Upper

107 100

108 118.5 94.2 141.4

77 48.7 38.6 58.0

79 47.7 39.0 58.4



#18

Hexachloroethane

Concen: 46.010 ng

RT: 7.398 min Scan# 885

Delta R.T. -0.006 min

Lab File: BF143818.D

Acq: 25 Sep 2025 22:20

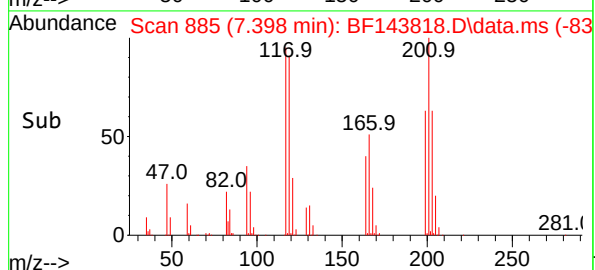
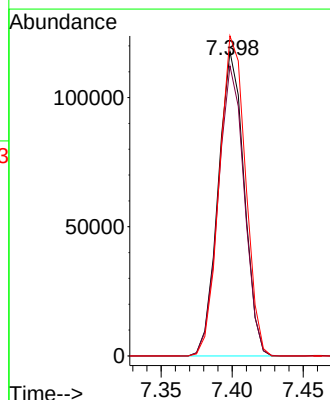
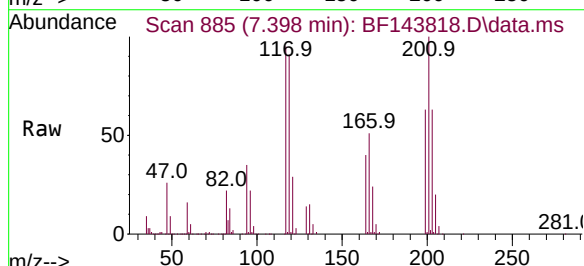
Tgt Ion:117 Resp: 149269

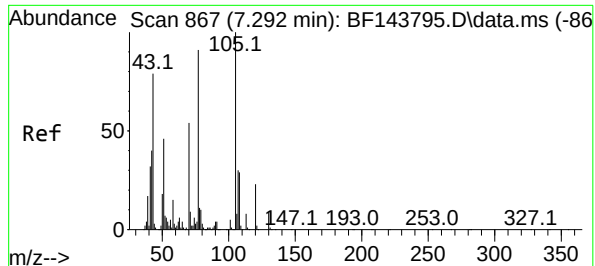
Ion Ratio Lower Upper

117 100

119 95.3 76.2 114.2

201 105.1 79.7 119.5





#19

n-Nitroso-di-n-propylamine

Concen: 48.763 ng

RT: 7.293 min Scan# 867

Delta R.T. -0.012 min

Lab File: BF143818.D

Acq: 25 Sep 2025 22:20

Instrument :

BNA\_F

ClientSampleId :

EME-TS14-01MSD

Tgt Ion: 70 Resp: 281772

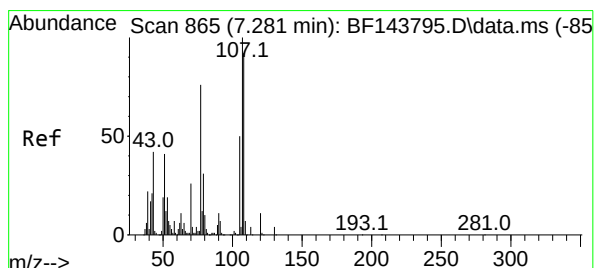
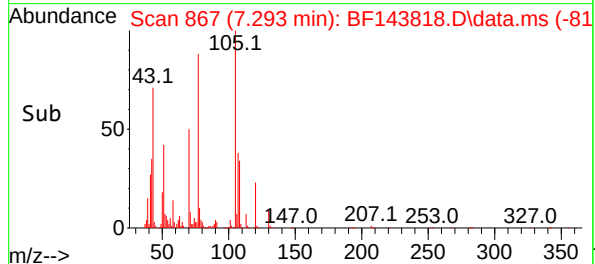
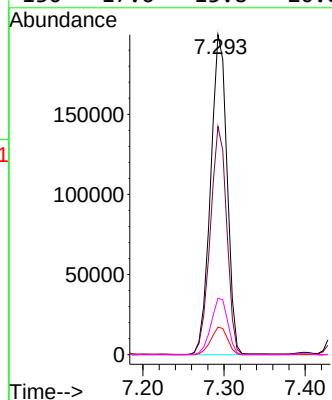
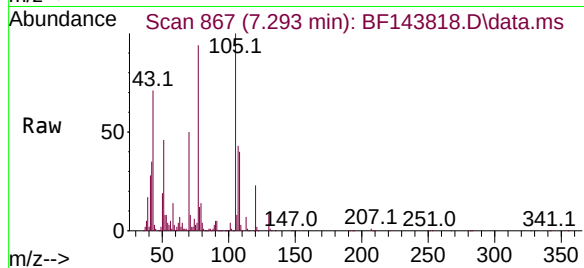
Ion Ratio Lower Upper

70 100

42 71.3 59.4 89.0

101 8.6 7.1 10.7

130 17.6 13.8 20.8



#20

3+4-Methylphenols

Concen: 50.378 ng

RT: 7.287 min Scan# 866

Delta R.T. 0.000 min

Lab File: BF143818.D

Acq: 25 Sep 2025 22:20

Tgt Ion: 107 Resp: 378153

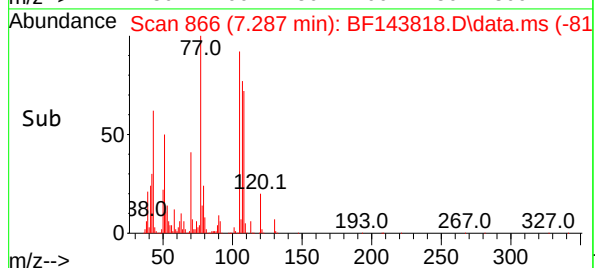
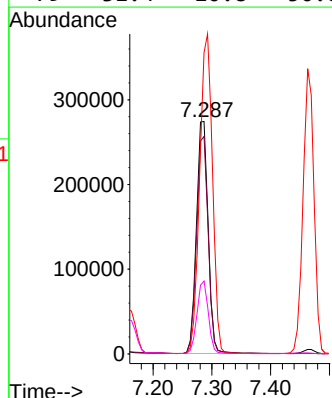
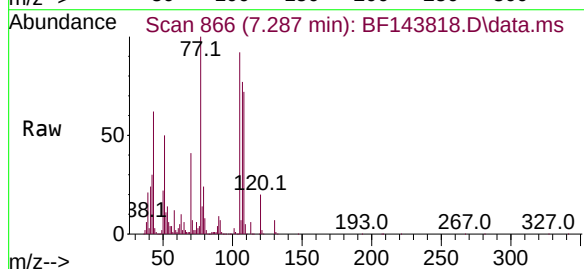
Ion Ratio Lower Upper

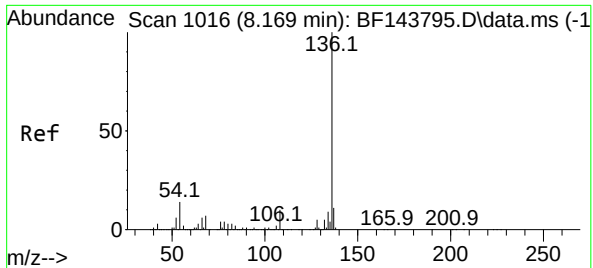
107 100

108 93.6 72.5 112.5

77 129.6 56.2 96.2#

79 31.4 10.8 50.8

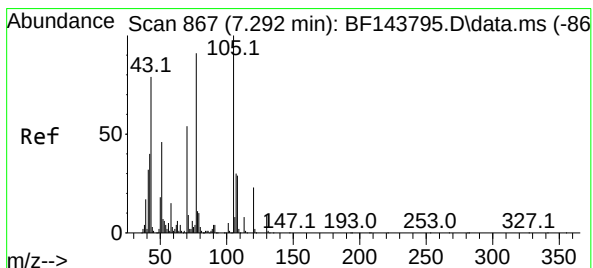
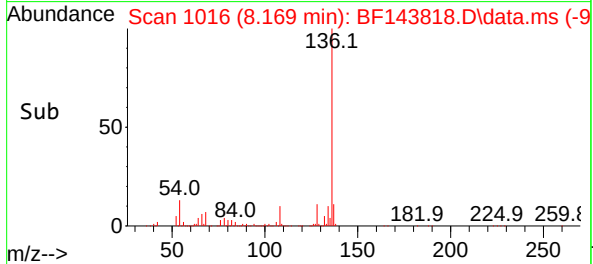
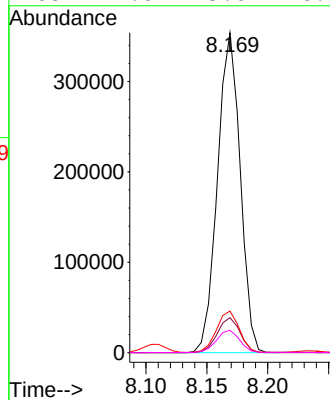
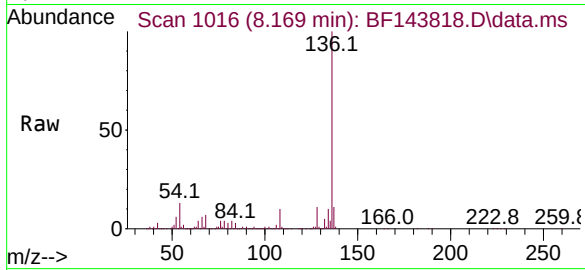




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.169 min Scan# 1016  
Delta R.T. -0.000 min  
Lab File: BF143818.D  
Acq: 25 Sep 2025 22:20

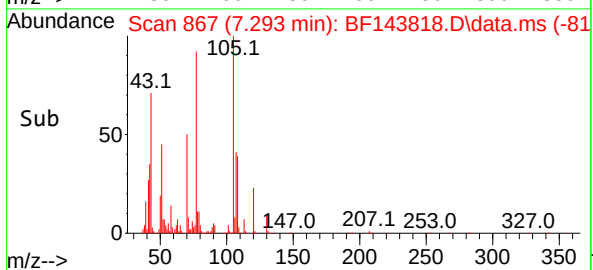
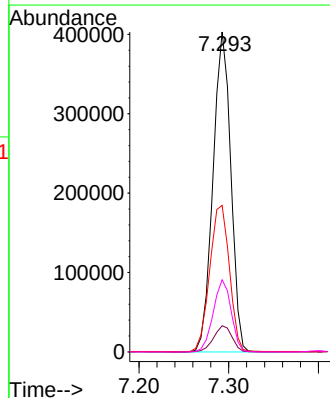
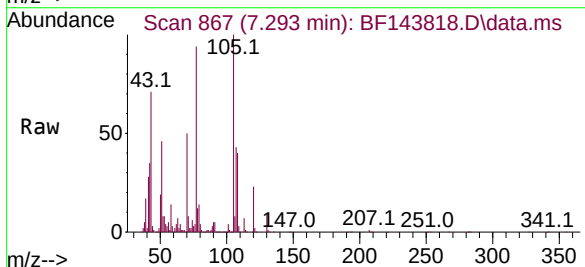
Instrument :  
BNA\_F  
ClientSampleId :  
EME-TS14-01MSD

Tgt Ion:136 Resp: 459229  
Ion Ratio Lower Upper  
136 100  
137 10.9 9.0 13.4  
54 13.0 11.2 16.8  
68 7.0 5.6 8.4

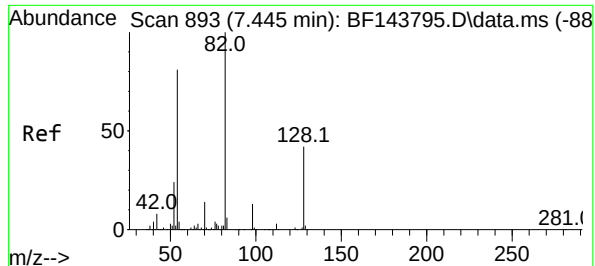


#22  
Acetophenone  
Concen: 55.246 ng  
RT: 7.293 min Scan# 867  
Delta R.T. -0.006 min  
Lab File: BF143818.D  
Acq: 25 Sep 2025 22:20

Tgt Ion:105 Resp: 557233  
Ion Ratio Lower Upper  
105 100  
71 8.2 7.0 10.4  
51 45.8 36.6 55.0  
120 22.5 18.1 27.1







#23

Nitrobenzene-d5

Concen: 65.636 ng

RT: 7.445 min Scan# 893

Delta R.T. -0.006 min

Lab File: BF143818.D

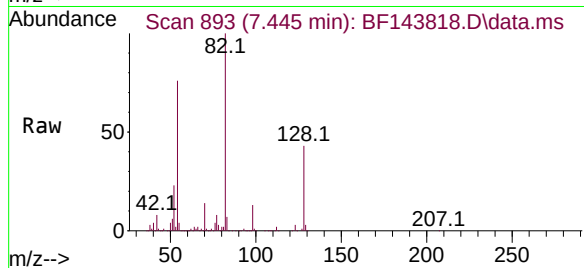
Acq: 25 Sep 2025 22:20

Instrument :

BNA\_F

ClientSampleId :

EME-TS14-01MSD



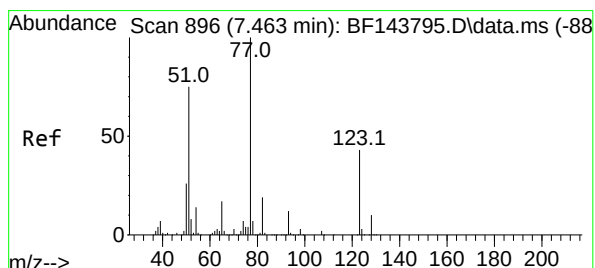
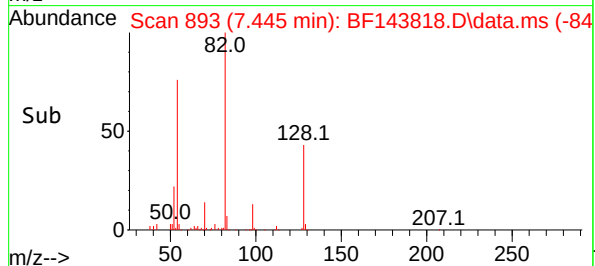
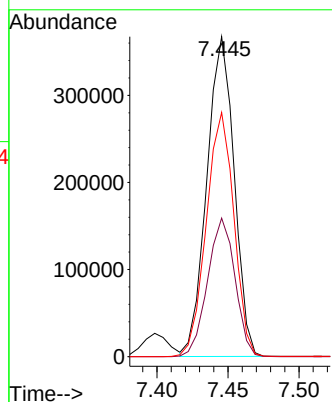
Tgt Ion: 82 Resp: 492420

Ion Ratio Lower Upper

82 100

128 43.3 33.3 49.9

54 76.3 64.2 96.4



#24

Nitrobenzene

Concen: 52.193 ng

RT: 7.463 min Scan# 896

Delta R.T. -0.012 min

Lab File: BF143818.D

Acq: 25 Sep 2025 22:20

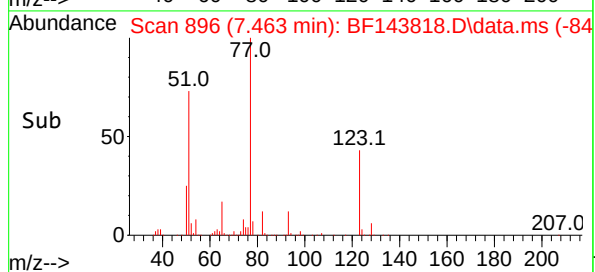
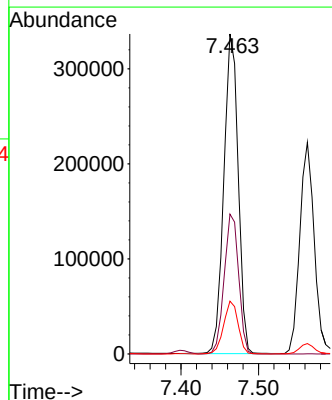
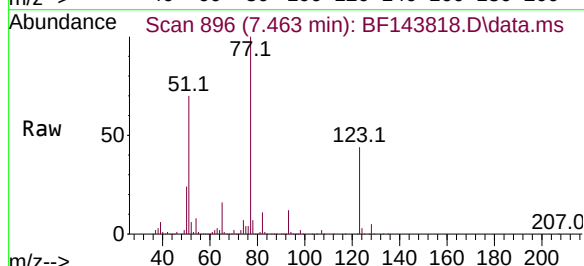
Tgt Ion: 77 Resp: 434021

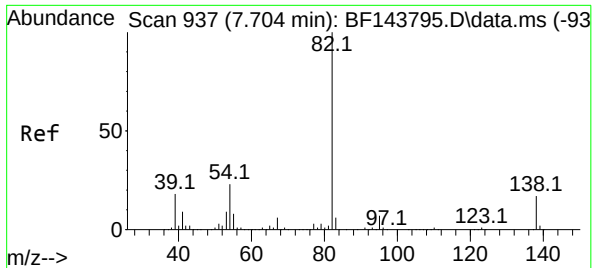
Ion Ratio Lower Upper

77 100

123 43.7 34.0 51.0

65 16.5 13.5 20.3

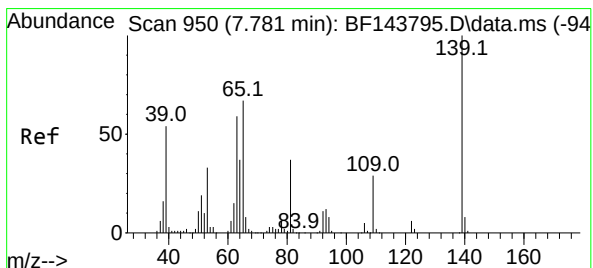
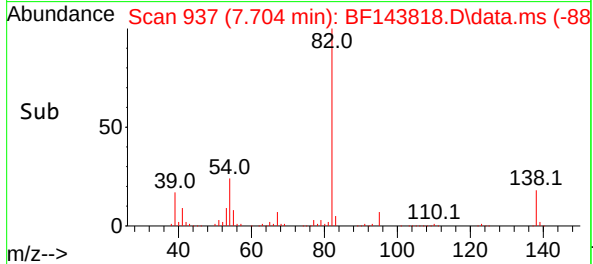
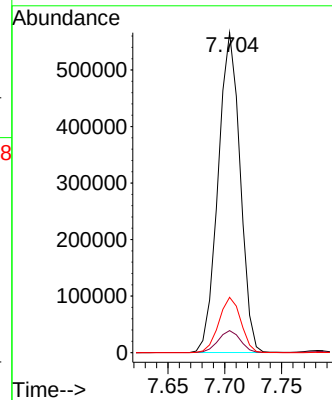
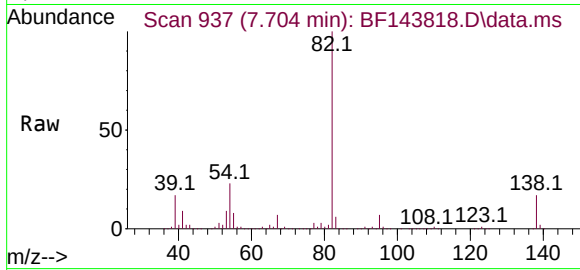




#25  
Isophorone  
Concen: 52.131 ng  
RT: 7.704 min Scan# 937  
Delta R.T. -0.006 min  
Lab File: BF143818.D  
Acq: 25 Sep 2025 22:20

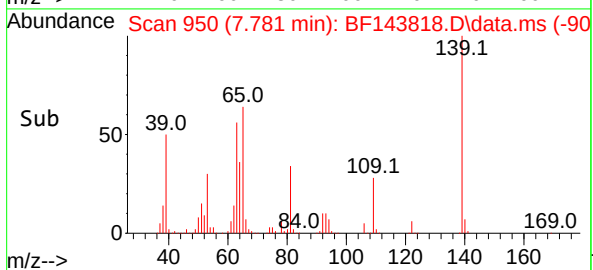
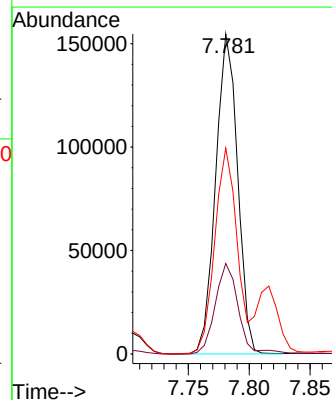
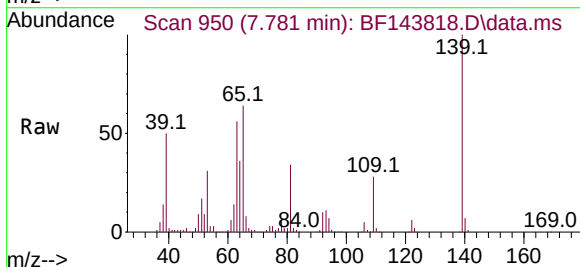
Instrument :  
BNA\_F  
ClientSampleId :  
EME-TS14-01MSD

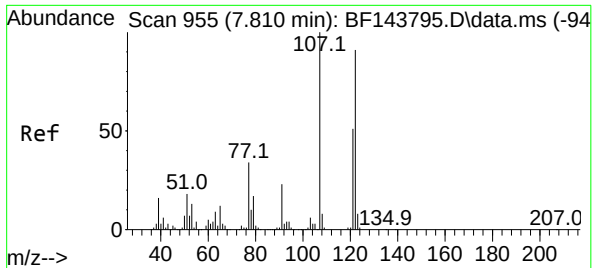
| Tgt Ion:  | 82    | Resp: | 762138 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 95        | 6.9   | 5.4   | 8.2    |
| 138       | 17.3  | 13.7  | 20.5   |



#26  
2-Nitrophenol  
Concen: 56.341 ng  
RT: 7.781 min Scan# 950  
Delta R.T. -0.005 min  
Lab File: BF143818.D  
Acq: 25 Sep 2025 22:20

| Tgt Ion:  | 139   | Resp: | 194055 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 139       | 100   |       |        |
| 109       | 28.2  | 23.3  | 34.9   |
| 65        | 64.3  | 53.8  | 80.6   |





#27

2,4-Dimethylphenol

Concen: 56.505 ng

RT: 7.816 min Scan# 91

Delta R.T. 0.000 min

Lab File: BF143818.D

Acq: 25 Sep 2025 22:20

Instrument :

BNA\_F

ClientSampleId :

EME-TS14-01MSD

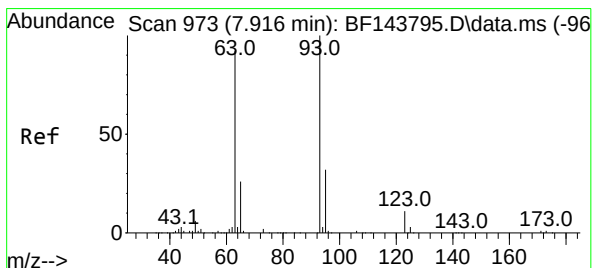
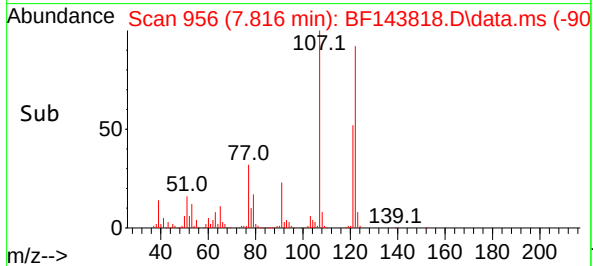
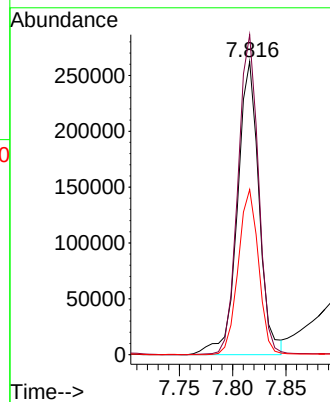
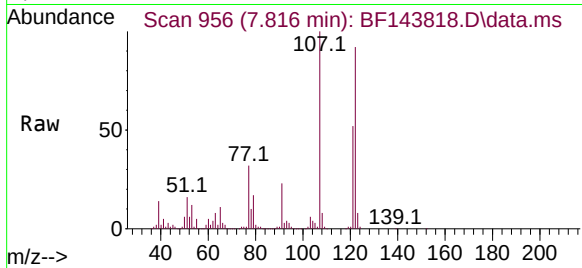
Tgt Ion:122 Resp: 369228

Ion Ratio Lower Upper

122 100

107 109.2 87.5 131.3

121 56.3 44.2 66.4



#28

bis(2-Chloroethoxy)methane

Concen: 48.661 ng

RT: 7.916 min Scan# 973

Delta R.T. 0.000 min

Lab File: BF143818.D

Acq: 25 Sep 2025 22:20

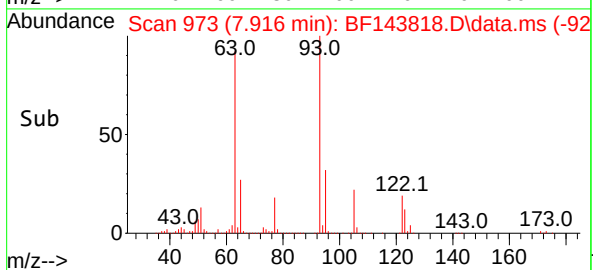
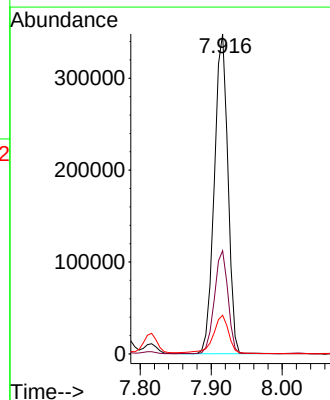
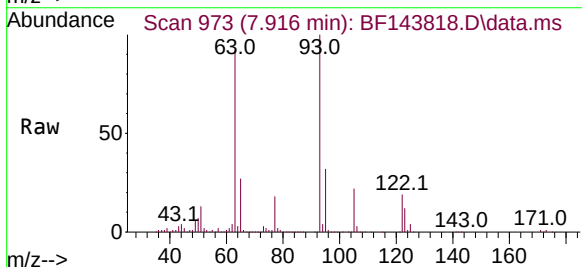
Tgt Ion: 93 Resp: 462198

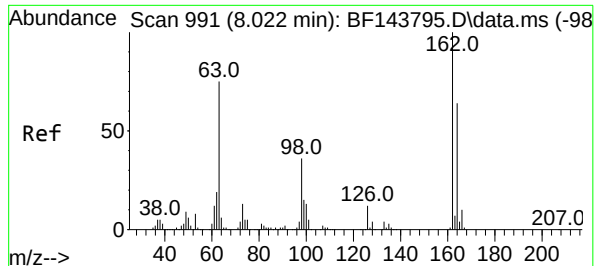
Ion Ratio Lower Upper

93 100

95 32.2 25.8 38.8

123 12.1 8.8 13.2





#29

2,4-Dichlorophenol

Concen: 49.770 ng

RT: 8.022 min Scan# 991

Delta R.T. 0.000 min

Lab File: BF143818.D

Acq: 25 Sep 2025 22:20

Instrument :

BNA\_F

ClientSampleId :

EME-TS14-01MSD

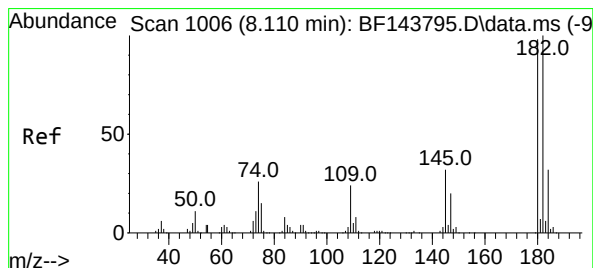
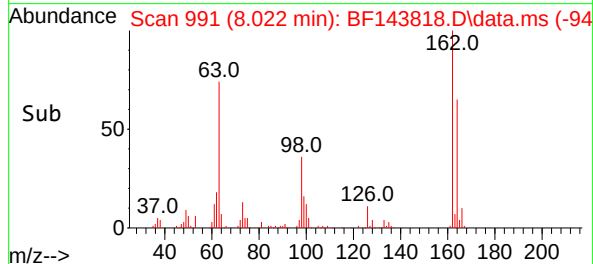
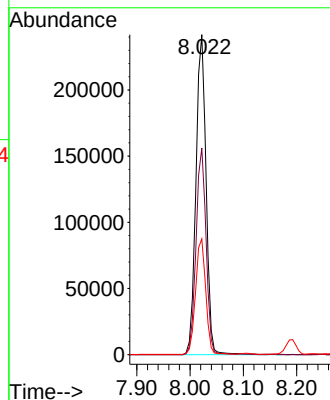
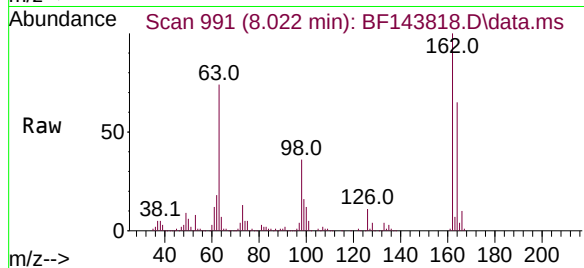
Tgt Ion:162 Resp: 320002

Ion Ratio Lower Upper

162 100

164 64.6 44.1 84.1

98 36.2 15.8 55.8



#30

1,2,4-Trichlorobenzene

Concen: 51.013 ng

RT: 8.110 min Scan# 1006

Delta R.T. 0.000 min

Lab File: BF143818.D

Acq: 25 Sep 2025 22:20

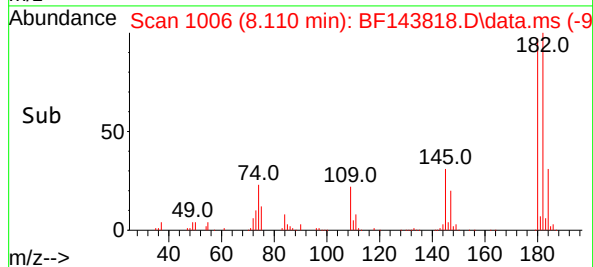
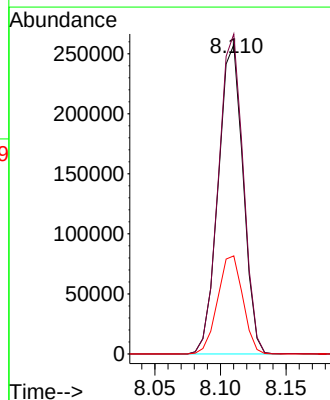
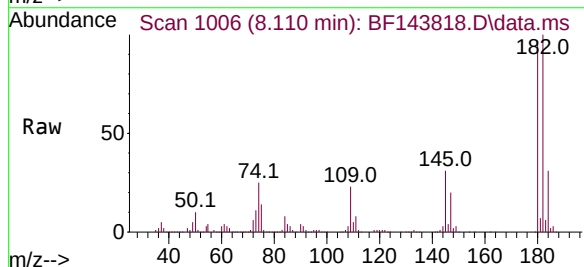
Tgt Ion:180 Resp: 340385

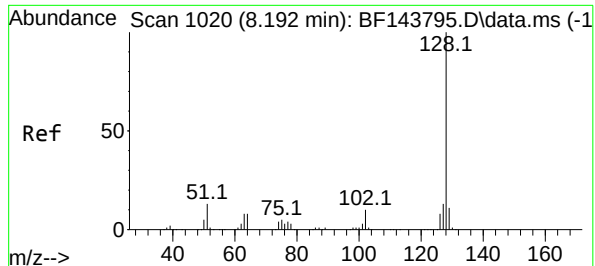
Ion Ratio Lower Upper

180 100

182 103.5 82.0 123.0

145 31.7 25.9 38.9

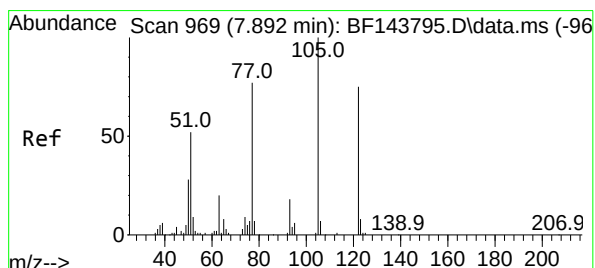
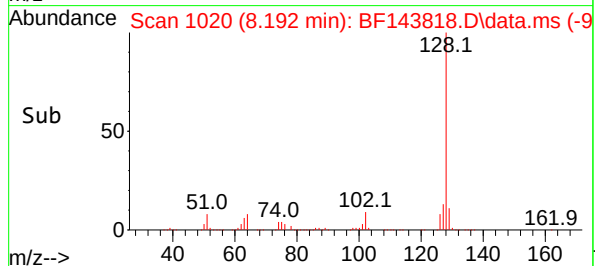
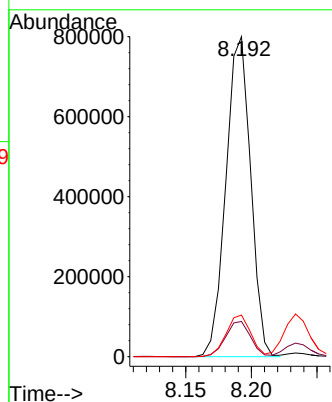
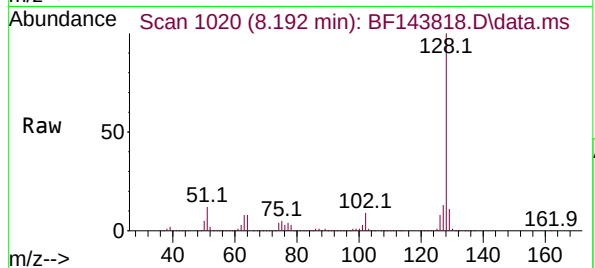




#31  
Naphthalene  
Concen: 47.833 ng  
RT: 8.192 min Scan# 10  
Delta R.T. 0.000 min  
Lab File: BF143818.D  
Acq: 25 Sep 2025 22:20

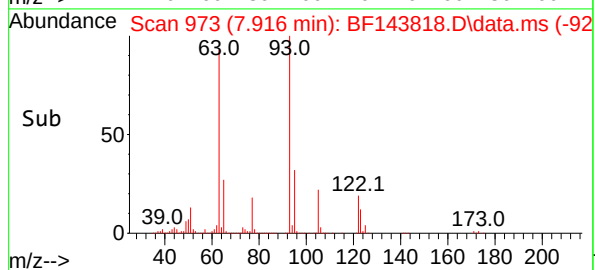
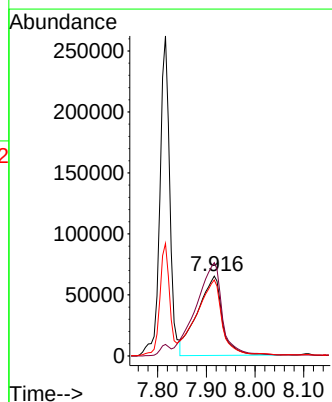
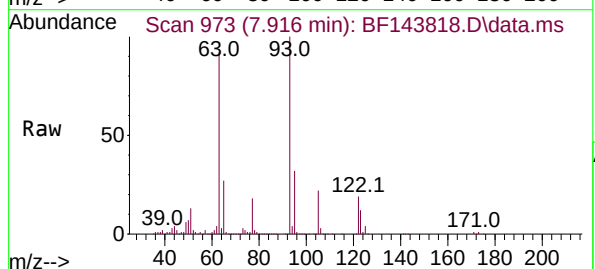
Instrument :  
BNA\_F  
ClientSampleId :  
EME-TS14-01MSD

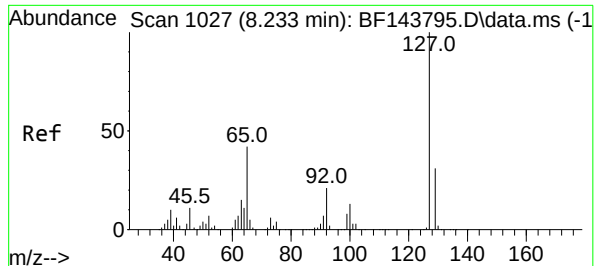
Tgt Ion:128 Resp: 1051563  
Ion Ratio Lower Upper  
128 100  
129 11.0 8.8 13.2  
127 13.0 10.2 15.4



#32  
Benzoic acid  
Concen: 73.059 ng  
RT: 7.916 min Scan# 973  
Delta R.T. -0.006 min  
Lab File: BF143818.D  
Acq: 25 Sep 2025 22:20

Tgt Ion:122 Resp: 230335  
Ion Ratio Lower Upper  
122 100  
105 117.0 103.7 143.7  
77 95.3 78.8 118.8





#33

4-Chloroaniline

Concen: 18.836 ng

RT: 8.234 min Scan# 1027

Delta R.T. -0.006 min

Lab File: BF143818.D

Acq: 25 Sep 2025 22:20

Instrument :

BNA\_F

ClientSampleId :

EME-TS14-01MSD

Tgt Ion:127 Resp: 145520

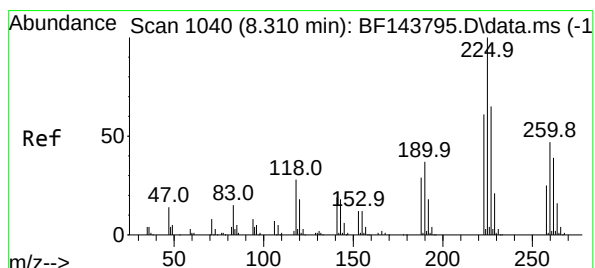
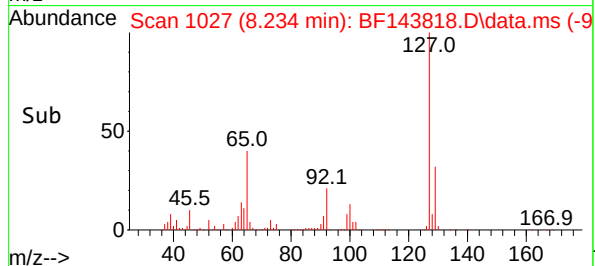
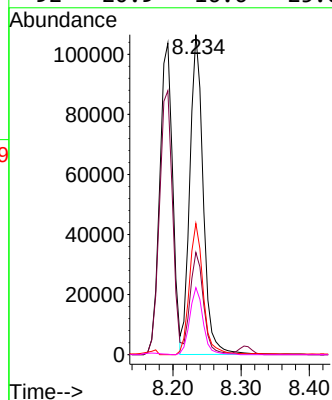
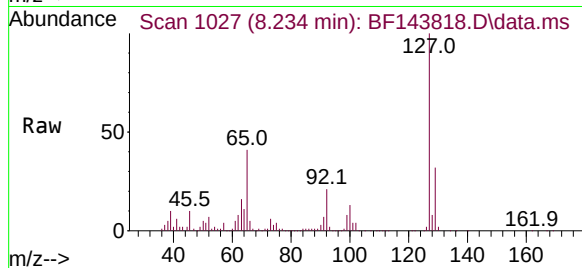
Ion Ratio Lower Upper

127 100

129 31.9 25.4 38.2

65 41.0 33.4 50.2

92 20.9 16.6 25.0



#34

Hexachlorobutadiene

Concen: 47.684 ng

RT: 8.310 min Scan# 1040

Delta R.T. 0.000 min

Lab File: BF143818.D

Acq: 25 Sep 2025 22:20

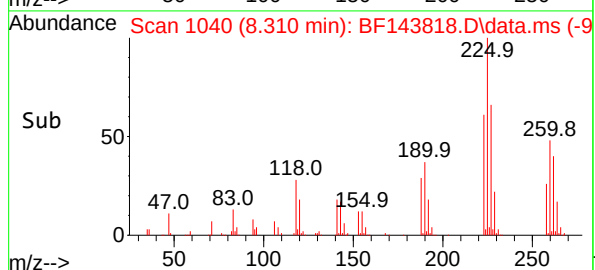
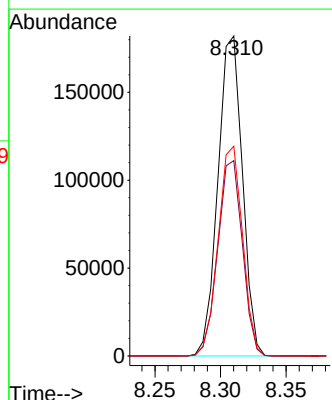
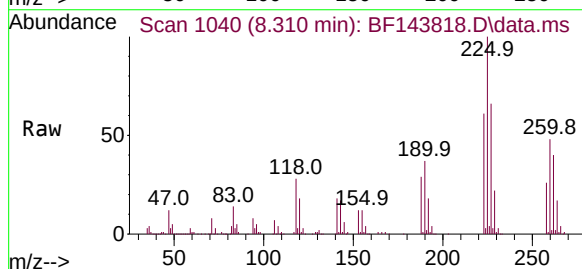
Tgt Ion:225 Resp: 237191

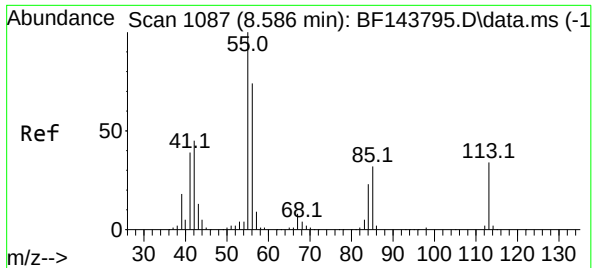
Ion Ratio Lower Upper

225 100

223 61.1 48.6 72.8

227 65.5 51.9 77.9





#35

Caprolactam

Concen: 62.522 ng

RT: 8.598 min Scan# 1089

Delta R.T. -0.012 min

Lab File: BF143818.D

Acq: 25 Sep 2025 22:20

Instrument :

BNA\_F

ClientSampleId :

EME-TS14-01MSD

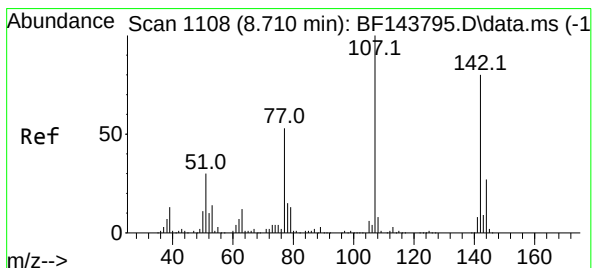
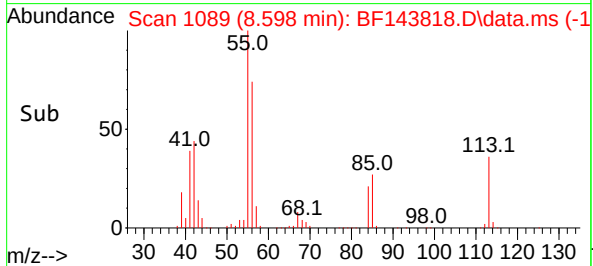
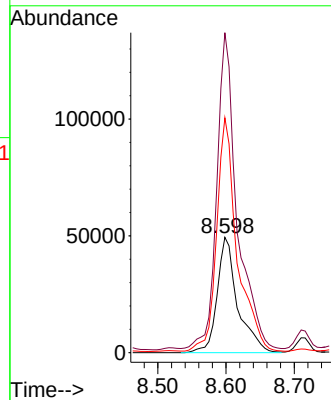
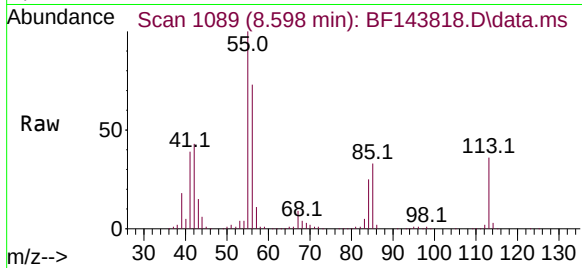
Tgt Ion:113 Resp: 102749

Ion Ratio Lower Upper

113 100

55 277.5 271.7 311.7

56 203.5 194.5 234.5



#36

4-Chloro-3-methylphenol

Concen: 51.924 ng

RT: 8.710 min Scan# 1108

Delta R.T. 0.000 min

Lab File: BF143818.D

Acq: 25 Sep 2025 22:20

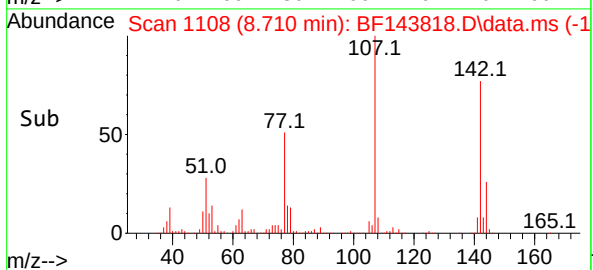
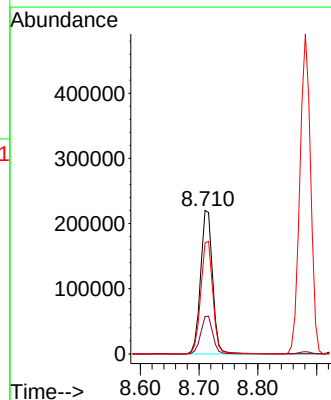
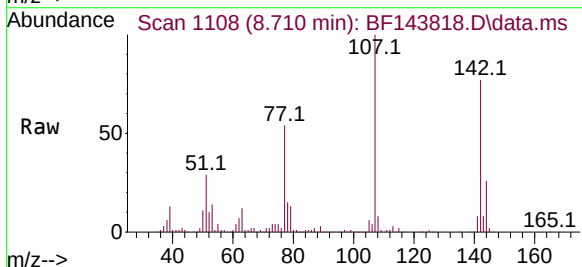
Tgt Ion:107 Resp: 313113

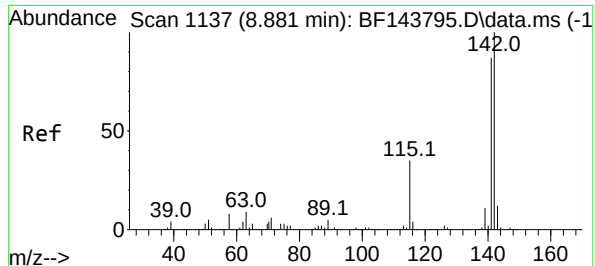
Ion Ratio Lower Upper

107 100

144 26.0 21.8 32.8

142 77.4 63.6 95.4





#37

2-Methylnaphthalene

Concen: 44.341 ng

RT: 8.881 min Scan# 1137

Delta R.T. 0.000 min

Lab File: BF143818.D

Acq: 25 Sep 2025 22:20

Instrument :

BNA\_F

ClientSampleId :

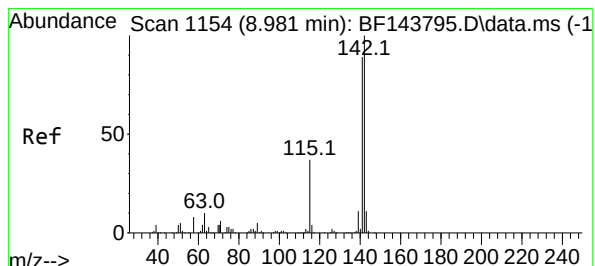
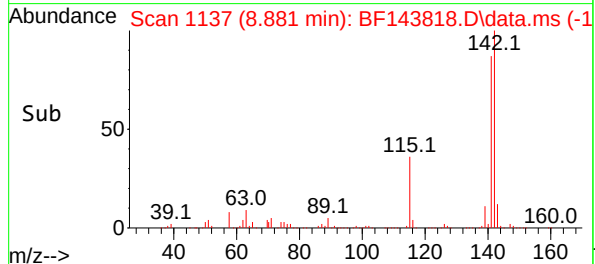
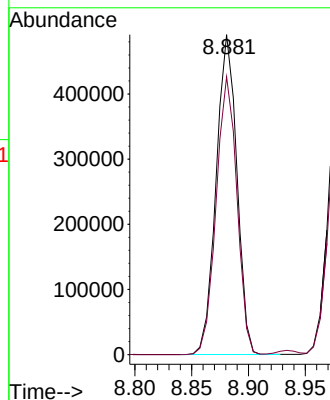
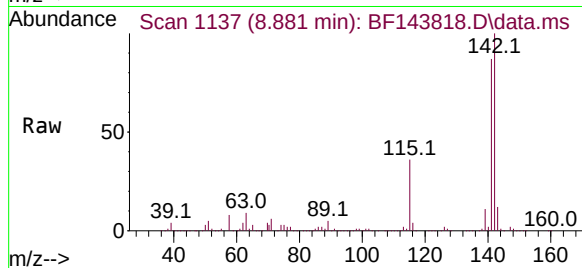
EME-TS14-01MSD

Tgt Ion:142 Resp: 621572

Ion Ratio Lower Upper

142 100

141 86.8 69.4 104.0



#38

1-Methylnaphthalene

Concen: 47.129 ng

RT: 8.981 min Scan# 1154

Delta R.T. 0.000 min

Lab File: BF143818.D

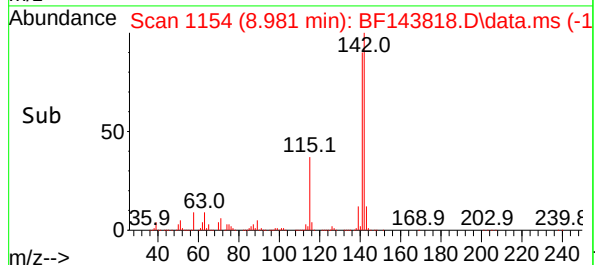
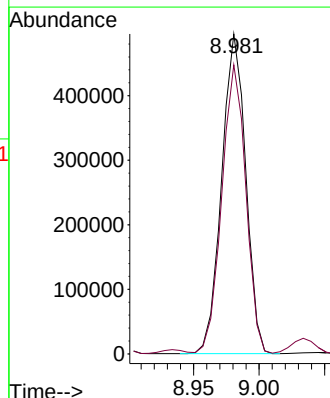
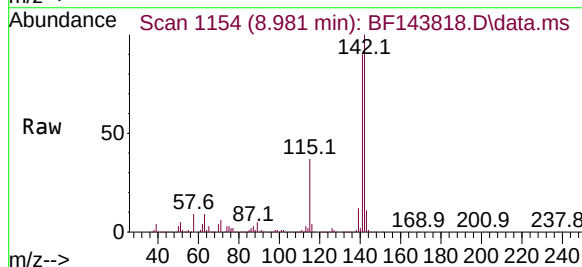
Acq: 25 Sep 2025 22:20

Tgt Ion:142 Resp: 632349

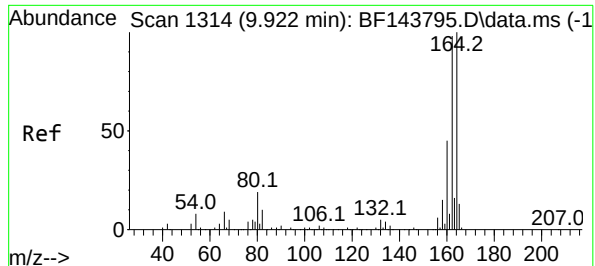
Ion Ratio Lower Upper

142 100

141 90.3 71.1 106.7







#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.928 min Scan# 1314

Delta R.T. -0.000 min

Lab File: BF143818.D

Acq: 25 Sep 2025 22:20

Instrument :

BNA\_F

ClientSampleId :

EME-TS14-01MSD

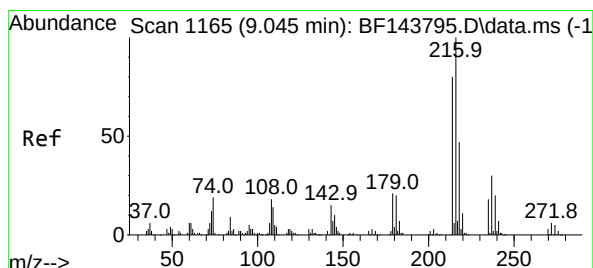
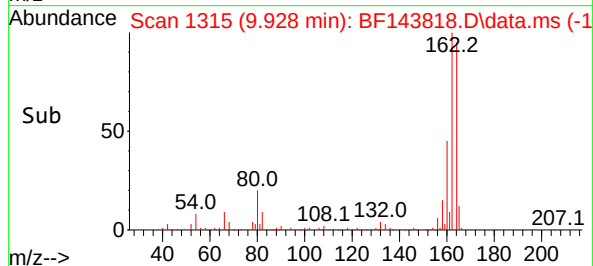
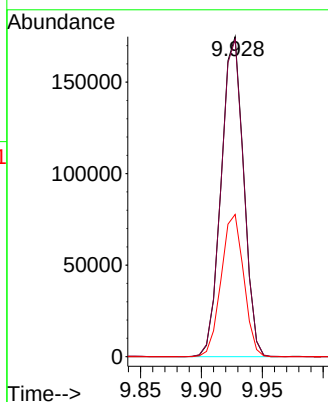
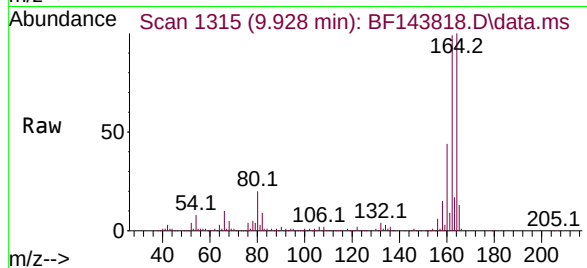
Tgt Ion:164 Resp: 224210

Ion Ratio Lower Upper

164 100

162 99.1 78.8 118.2

160 44.4 35.8 53.6



#40

1,2,4,5-Tetrachlorobenzene

Concen: 52.694 ng

RT: 9.045 min Scan# 1165

Delta R.T. -0.006 min

Lab File: BF143818.D

Acq: 25 Sep 2025 22:20

Tgt Ion:216 Resp: 356539

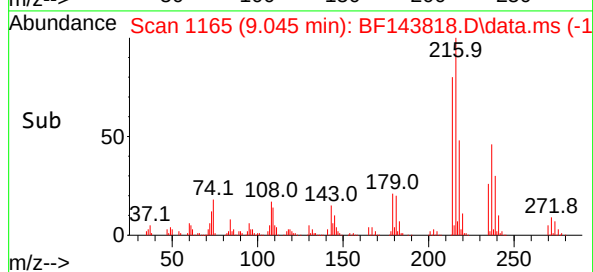
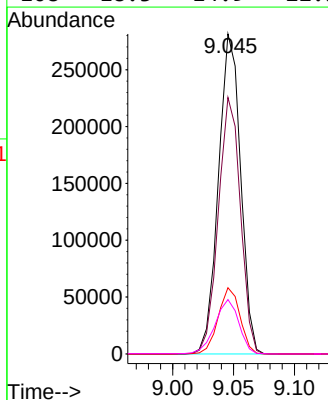
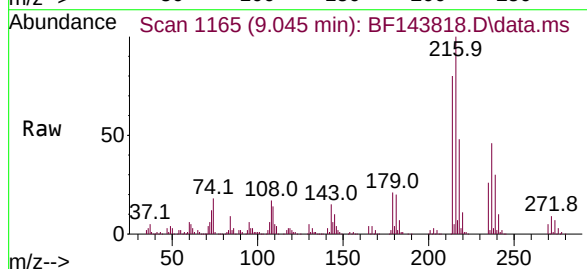
Ion Ratio Lower Upper

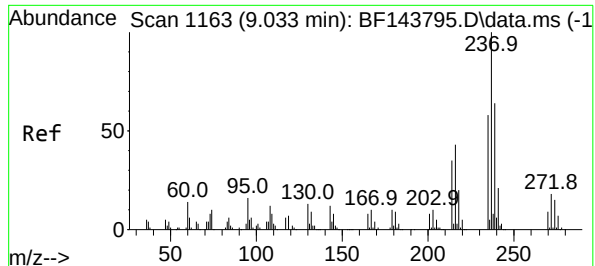
216 100

214 79.8 63.7 95.5

179 20.4 16.5 24.7

108 18.3 14.9 22.3

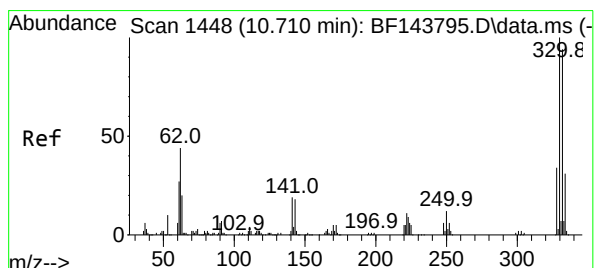
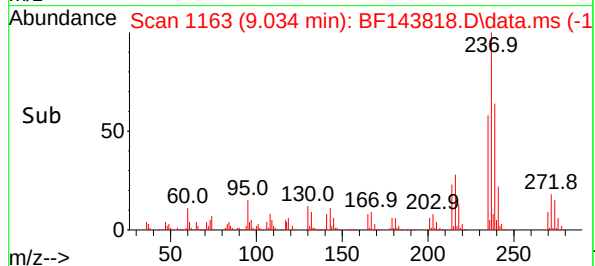
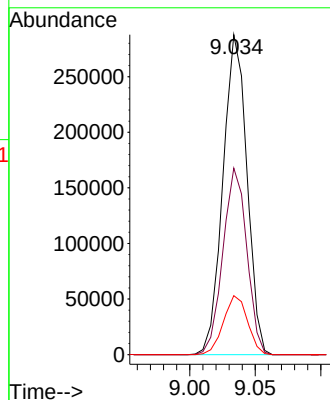
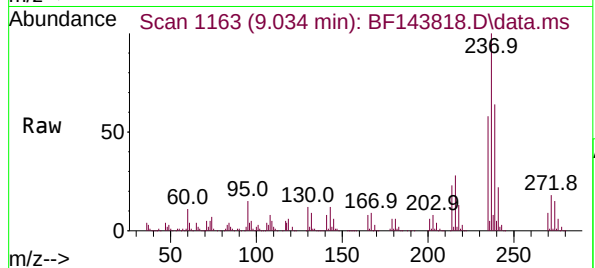




#41  
Hexachlorocyclopentadiene  
Concen: 85.631 ng  
RT: 9.034 min Scan# 1163  
Delta R.T. -0.006 min  
Lab File: BF143818.D  
Acq: 25 Sep 2025 22:20

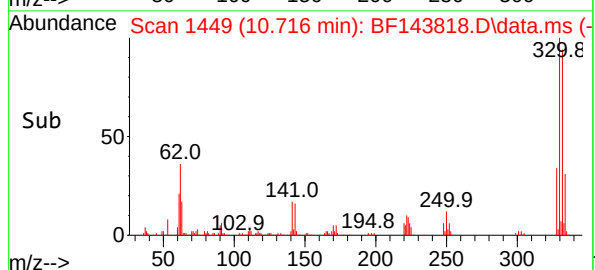
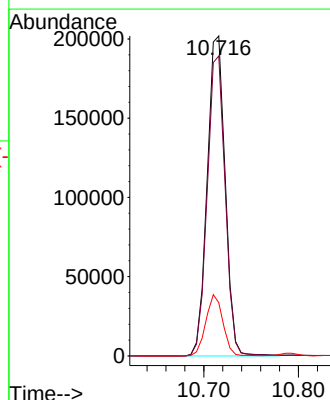
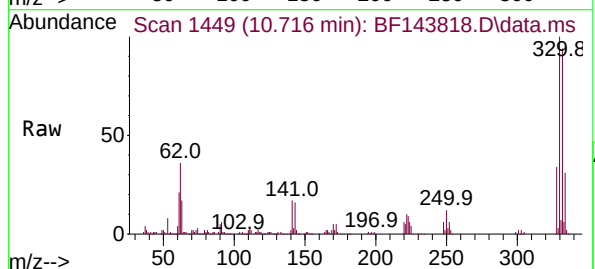
Instrument :  
BNA\_F  
ClientSampleId :  
EME-TS14-01MSD

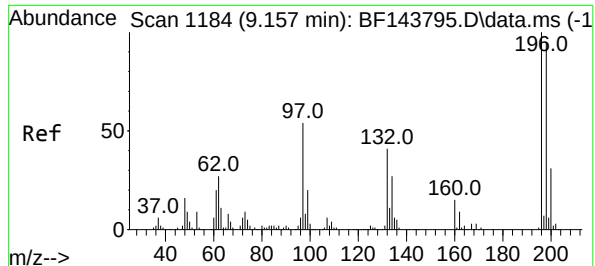
Tgt Ion: 237 Resp: 367206  
Ion Ratio Lower Upper  
237 100  
235 58.3 38.1 78.1  
272 18.4 0.0 37.9



#42  
2,4,6-Tribromophenol  
Concen: 80.479 ng  
RT: 10.716 min Scan# 1449  
Delta R.T. -0.000 min  
Lab File: BF143818.D  
Acq: 25 Sep 2025 22:20

Tgt Ion: 330 Resp: 267172  
Ion Ratio Lower Upper  
330 100  
332 93.6 74.7 112.1  
141 18.2 14.3 21.5





#43

2,4,6-Trichlorophenol

Concen: 53.427 ng

RT: 9.157 min Scan# 1184

Delta R.T. 0.000 min

Lab File: BF143818.D

Acq: 25 Sep 2025 22:20

Instrument :

BNA\_F

ClientSampleId :

EME-TS14-01MSD

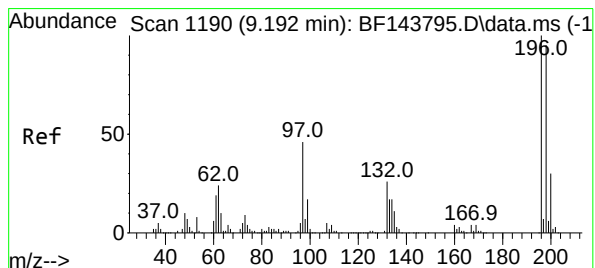
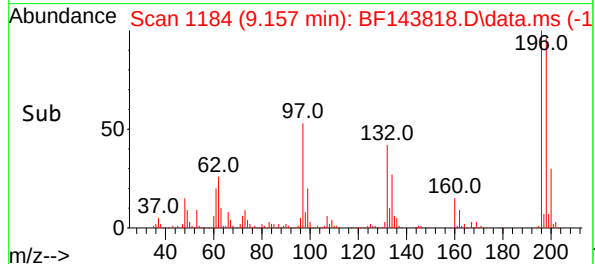
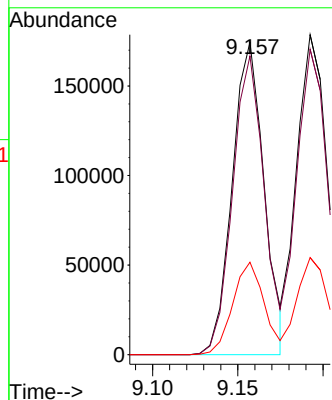
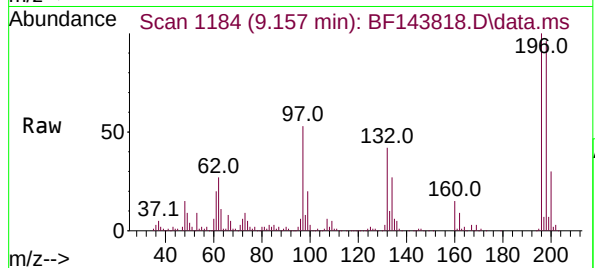
Tgt Ion:196 Resp: 226360

Ion Ratio Lower Upper

196 100

198 95.5 76.2 114.2

200 29.6 24.7 37.1



#44

2,4,5-Trichlorophenol

Concen: 50.763 ng

RT: 9.192 min Scan# 1190

Delta R.T. 0.000 min

Lab File: BF143818.D

Acq: 25 Sep 2025 22:20

Tgt Ion:196 Resp: 224962

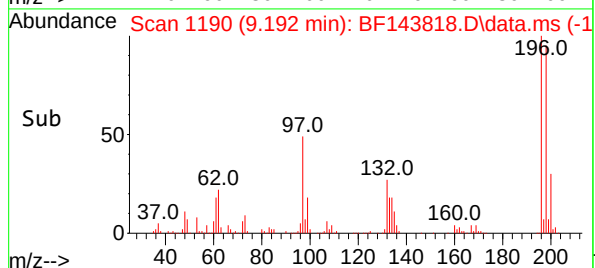
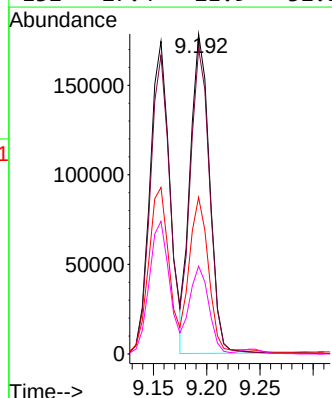
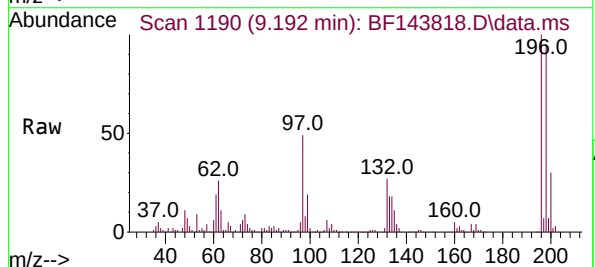
Ion Ratio Lower Upper

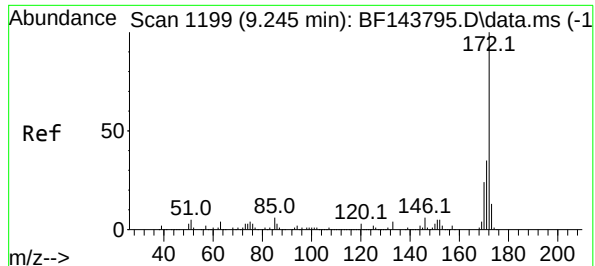
196 100

198 95.5 75.9 113.9

97 48.9 38.3 57.5

132 27.4 21.9 32.9





#45

2-Fluorobiphenyl

Concen: 51.871 ng

RT: 9.245 min Scan# 1199

Delta R.T. 0.000 min

Lab File: BF143818.D

Acq: 25 Sep 2025 22:20

Instrument :

BNA\_F

ClientSampleId :

EME-TS14-01MSD

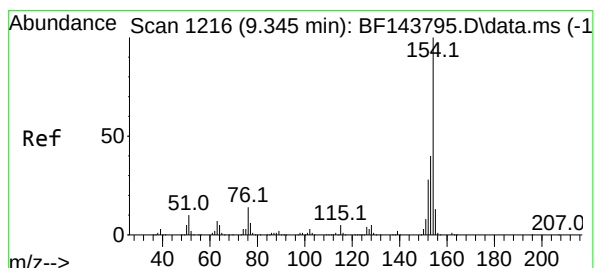
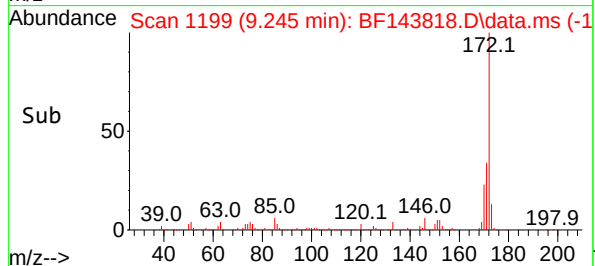
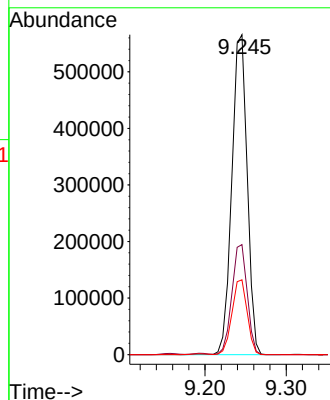
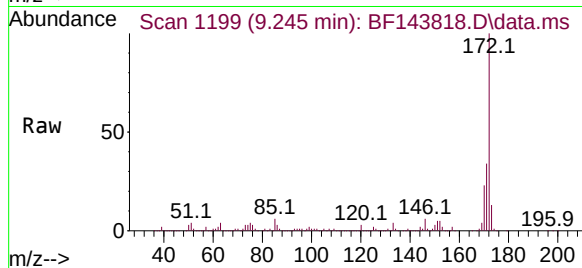
Tgt Ion:172 Resp: 745279

Ion Ratio Lower Upper

172 100

171 34.4 27.9 41.9

170 23.4 19.1 28.7



#46

1,1'-Biphenyl

Concen: 53.810 ng

RT: 9.345 min Scan# 1216

Delta R.T. 0.000 min

Lab File: BF143818.D

Acq: 25 Sep 2025 22:20

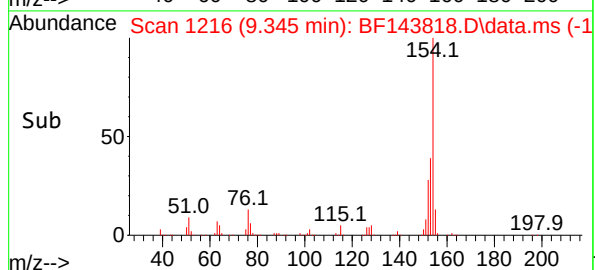
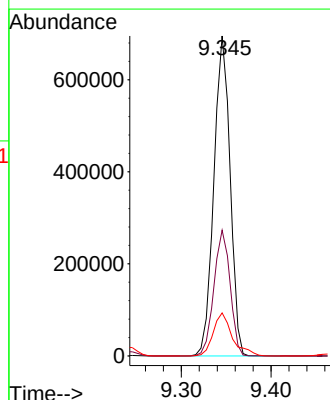
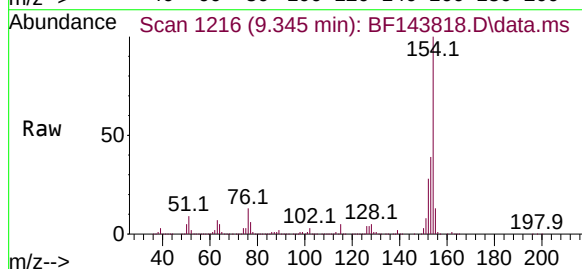
Tgt Ion:154 Resp: 873337

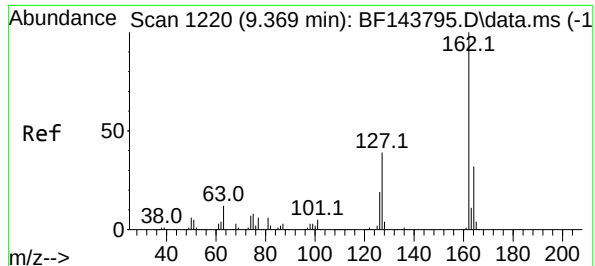
Ion Ratio Lower Upper

154 100

153 39.3 19.7 59.7

76 13.4 0.0 33.8





#47

2-Chloronaphthalene

Concen: 48.050 ng

RT: 9.369 min Scan# 1220

Delta R.T. -0.006 min

Lab File: BF143818.D

Acq: 25 Sep 2025 22:20

Instrument :

BNA\_F

ClientSampleId :

EME-TS14-01MSD

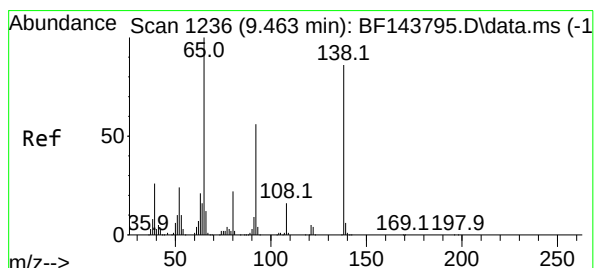
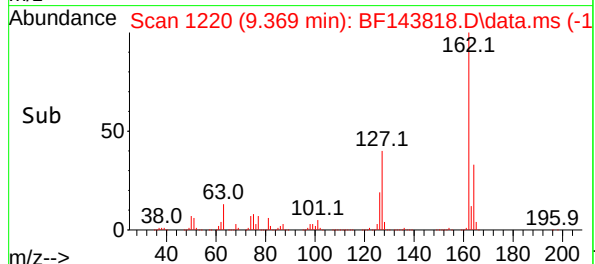
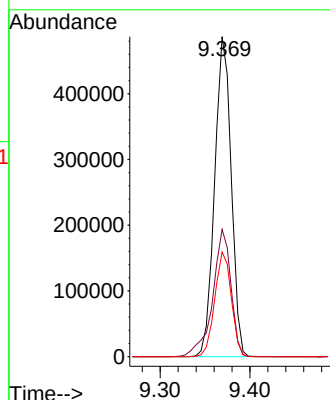
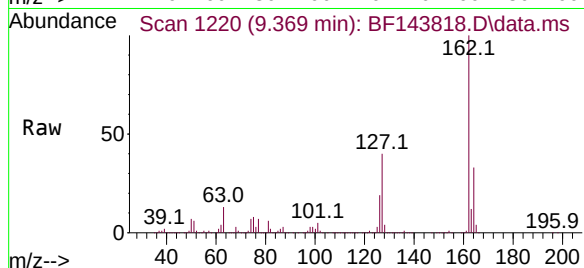
Tgt Ion:162 Resp: 627741

Ion Ratio Lower Upper

162 100

127 39.7 31.5 47.3

164 32.7 25.9 38.9



#48

2-Nitroaniline

Concen: 61.899 ng

RT: 9.463 min Scan# 1236

Delta R.T. 0.000 min

Lab File: BF143818.D

Acq: 25 Sep 2025 22:20

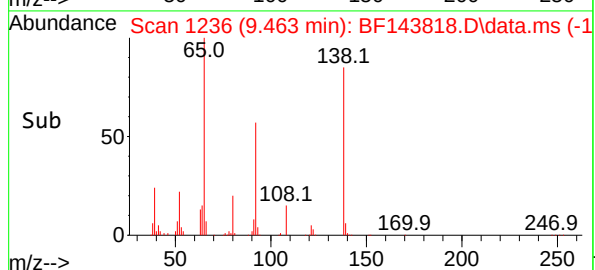
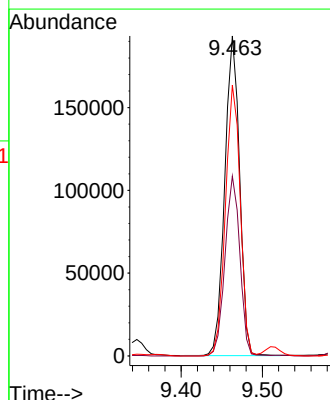
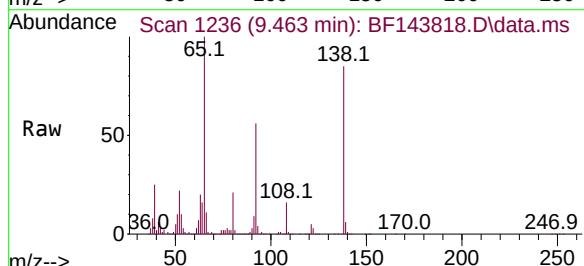
Tgt Ion: 65 Resp: 244411

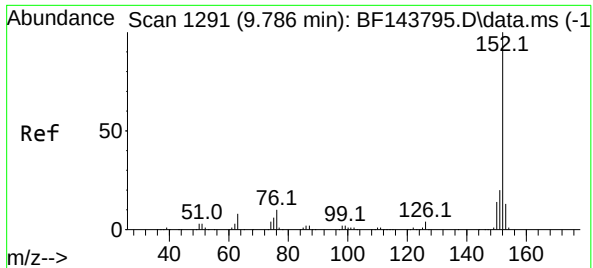
Ion Ratio Lower Upper

65 100

92 56.2 44.9 67.3

138 84.6 69.0 103.4





#49

Acenaphthylene

Concen: 55.772 ng

RT: 9.787 min Scan# 1291

Delta R.T. 0.000 min

Lab File: BF143818.D

Acq: 25 Sep 2025 22:20

Instrument :

BNA\_F

ClientSampleId :

EME-TS14-01MSD

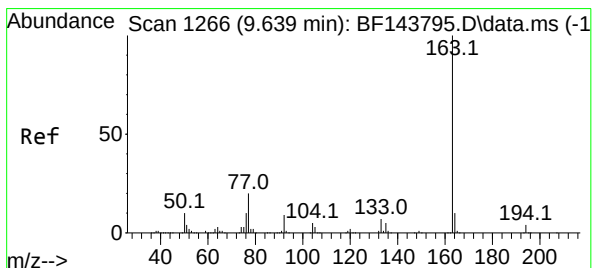
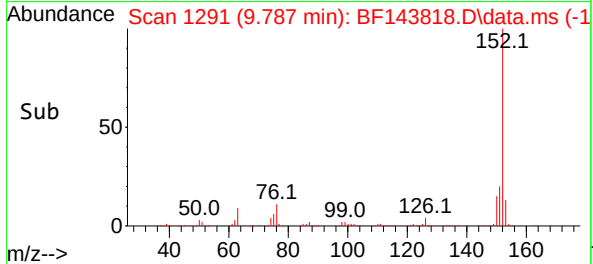
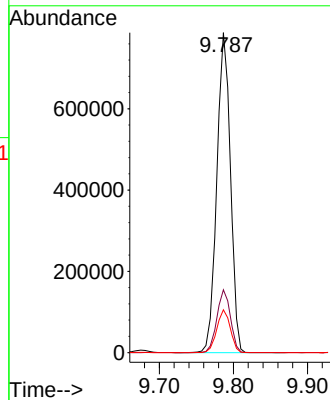
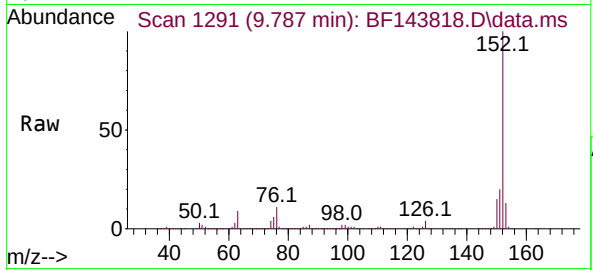
Tgt Ion:152 Resp: 1003047

Ion Ratio Lower Upper

152 100

151 19.6 15.7 23.5

153 13.4 10.6 15.8



#50

Dimethylphthalate

Concen: 53.262 ng

RT: 9.645 min Scan# 1267

Delta R.T. 0.006 min

Lab File: BF143818.D

Acq: 25 Sep 2025 22:20

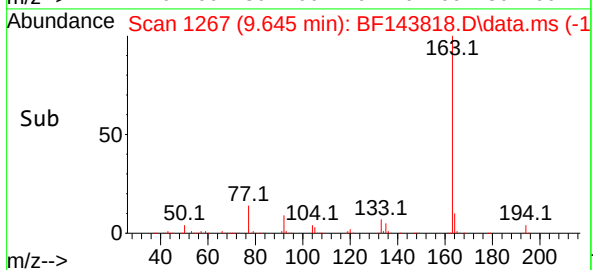
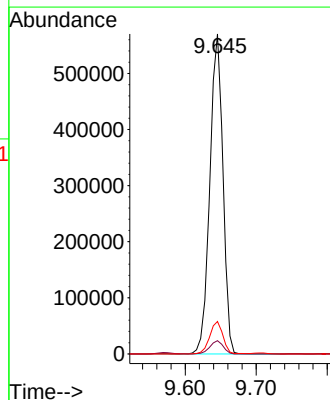
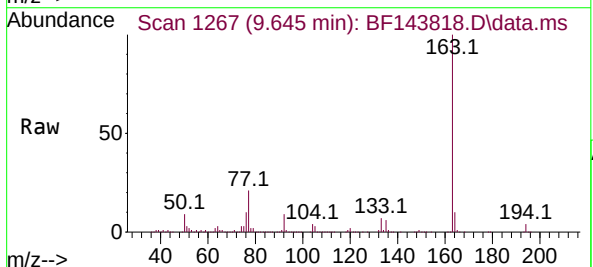
Tgt Ion:163 Resp: 727859

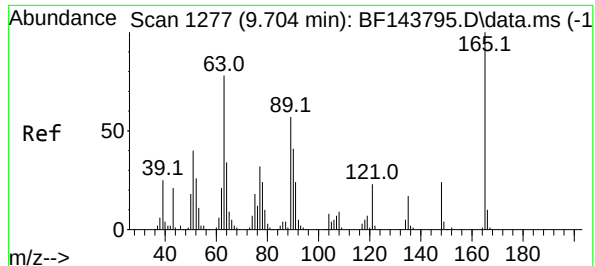
Ion Ratio Lower Upper

163 100

194 4.1 3.0 4.6

164 10.1 8.2 12.2

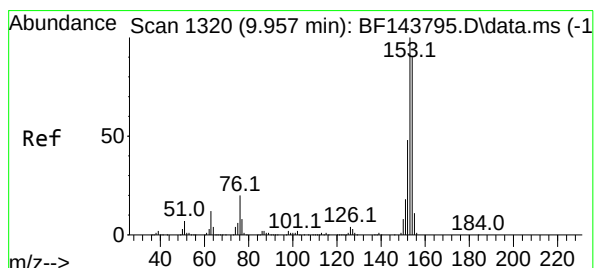
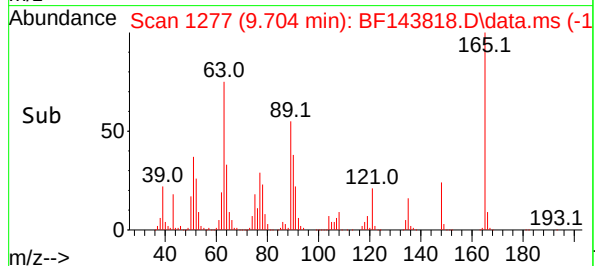
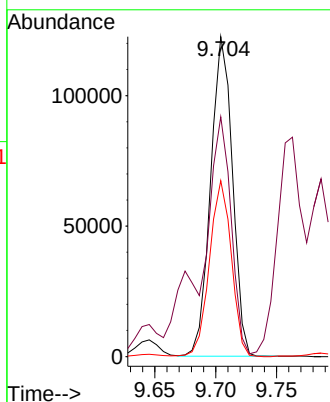
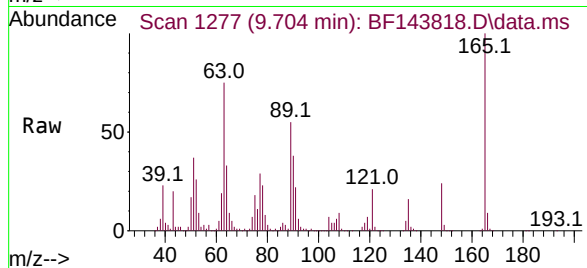




#51  
2,6-Dinitrotoluene  
Concen: 67.944 ng  
RT: 9.704 min Scan# 1277  
Delta R.T. 0.000 min  
Lab File: BF143818.D  
Acq: 25 Sep 2025 22:20

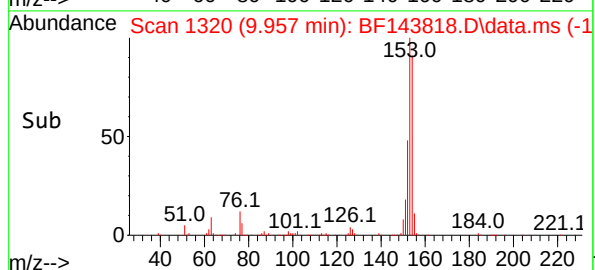
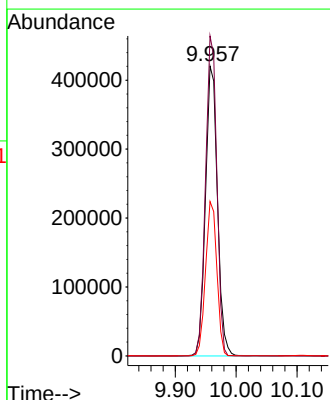
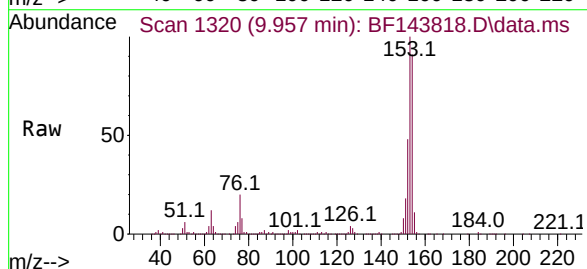
Instrument :  
BNA\_F  
ClientSampleId :  
EME-TS14-01MSD

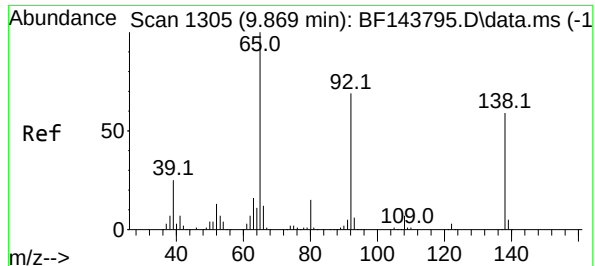
Tgt Ion:165 Resp: 152551  
Ion Ratio Lower Upper  
165 100  
63 74.9 62.6 94.0  
89 55.0 45.2 67.8



#52  
Acenaphthene  
Concen: 48.506 ng  
RT: 9.957 min Scan# 1320  
Delta R.T. -0.006 min  
Lab File: BF143818.D  
Acq: 25 Sep 2025 22:20

Tgt Ion:154 Resp: 574079  
Ion Ratio Lower Upper  
154 100  
153 110.5 88.7 133.1  
152 53.3 42.7 64.1





#53

3-Nitroaniline

Concen: 39.401 ng

RT: 9.869 min Scan# 1305

Delta R.T. -0.006 min

Lab File: BF143818.D

Acq: 25 Sep 2025 22:20

Instrument :

BNA\_F

ClientSampleId :

EME-TS14-01MSD

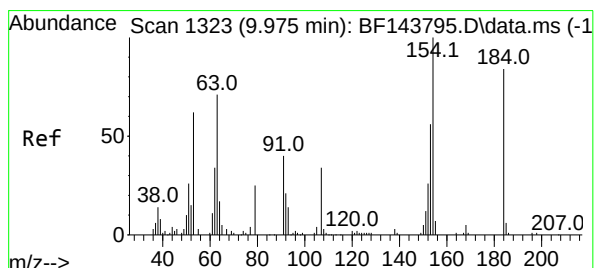
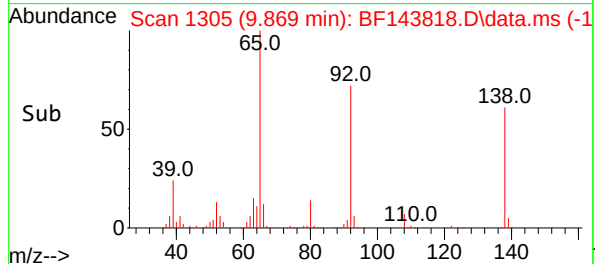
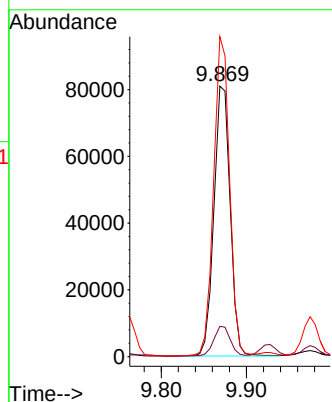
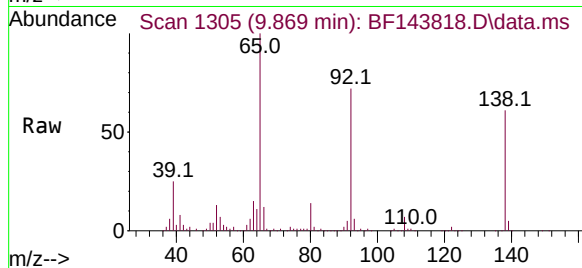
Tgt Ion:138 Resp: 107230

Ion Ratio Lower Upper

138 100

108 11.2 9.9 14.9

92 118.3 93.5 140.3



#54

2,4-Dinitrophenol

Concen: 67.109 ng

RT: 9.975 min Scan# 1323

Delta R.T. -0.000 min

Lab File: BF143818.D

Acq: 25 Sep 2025 22:20

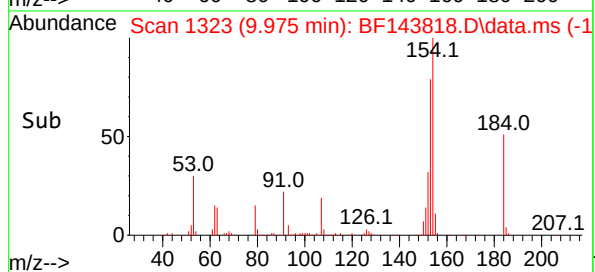
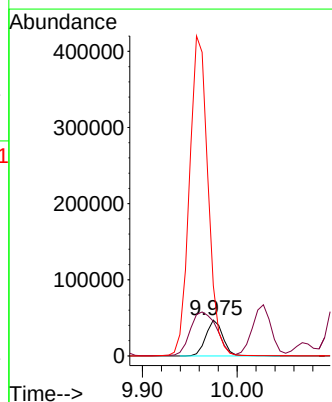
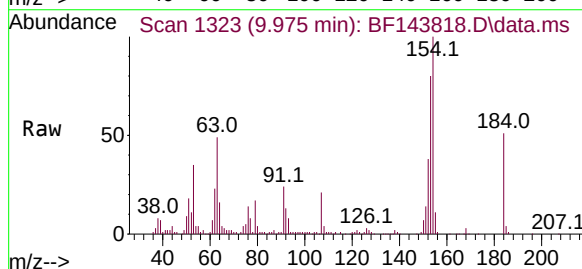
Tgt Ion:184 Resp: 58390

Ion Ratio Lower Upper

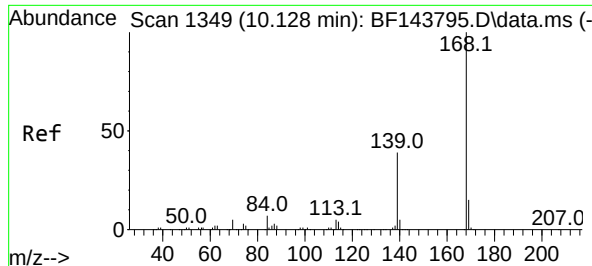
184 100

63 96.9 84.6 127.0

154 197.0 199.3 298.9#







#55

Dibenzenofuran

Concen: 48.682 ng

RT: 10.134 min Scan# 1349

Delta R.T. 0.000 min

Lab File: BF143818.D

Acq: 25 Sep 2025 22:20

Instrument :

BNA\_F

ClientSampleId :

EME-TS14-01MSD

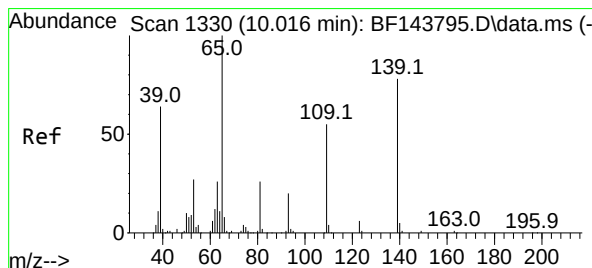
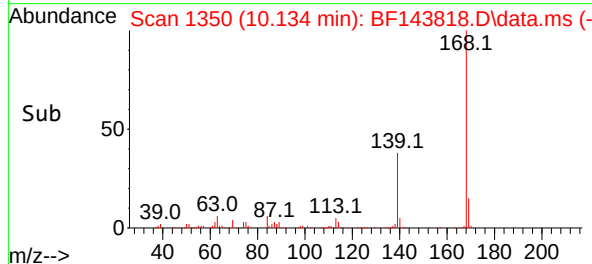
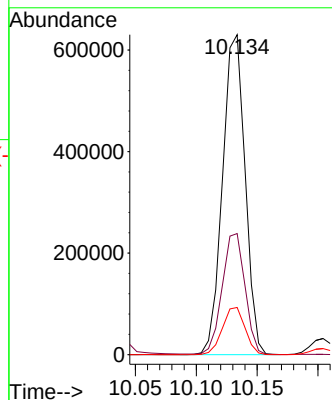
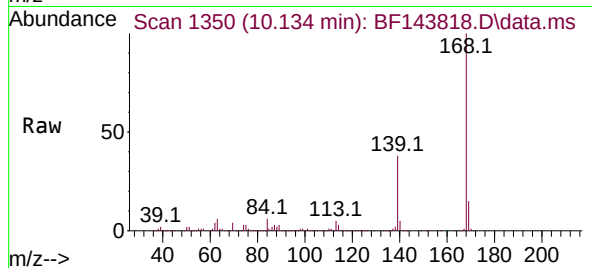
Tgt Ion:168 Resp: 814738

Ion Ratio Lower Upper

168 100

139 37.8 31.0 46.6

169 14.7 11.9 17.9



#56

4-Nitrophenol

Concen: 115.199 ng

RT: 10.028 min Scan# 1332

Delta R.T. 0.006 min

Lab File: BF143818.D

Acq: 25 Sep 2025 22:20

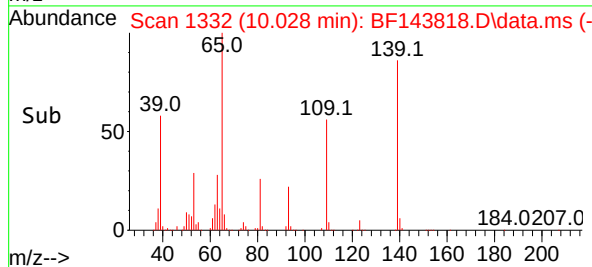
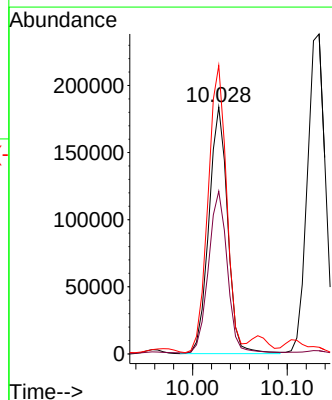
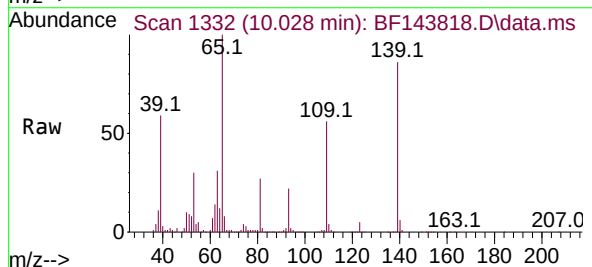
Tgt Ion:139 Resp: 252644

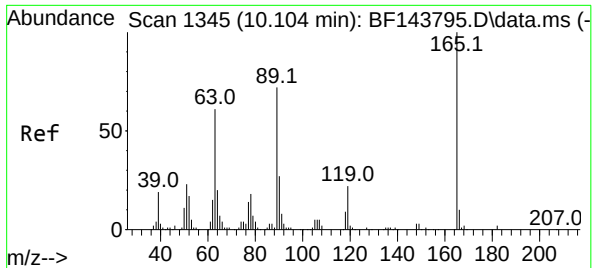
Ion Ratio Lower Upper

139 100

109 65.9 50.2 90.2

65 116.8 109.2 149.2

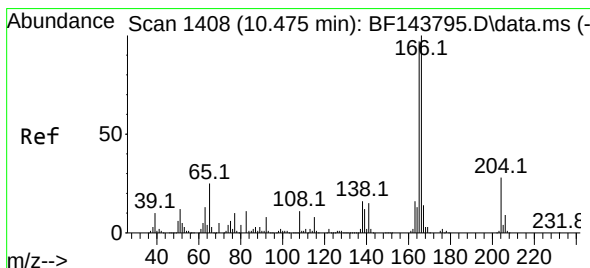
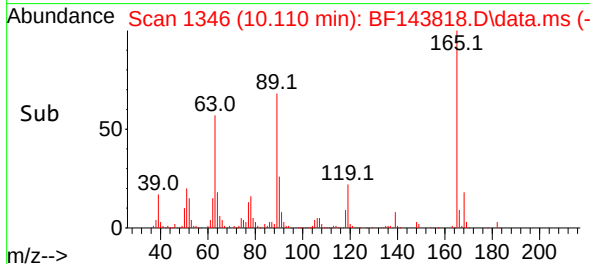
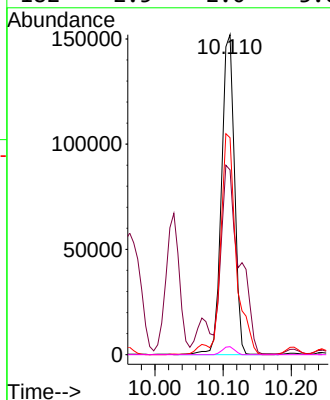
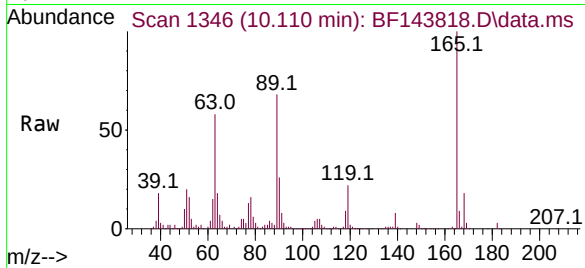




#57  
2,4-Dinitrotoluene  
Concen: 58.969 ng  
RT: 10.110 min Scan# 1345  
Delta R.T. 0.000 min  
Lab File: BF143818.D  
Acq: 25 Sep 2025 22:20

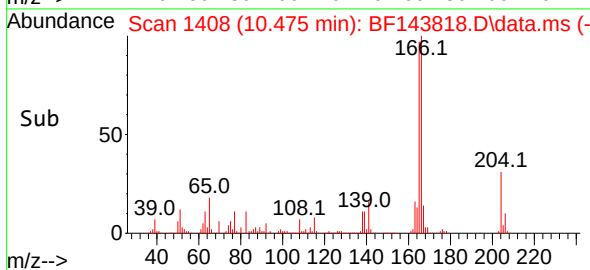
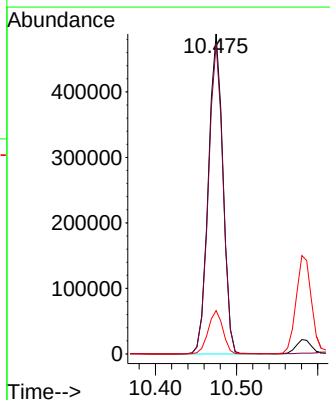
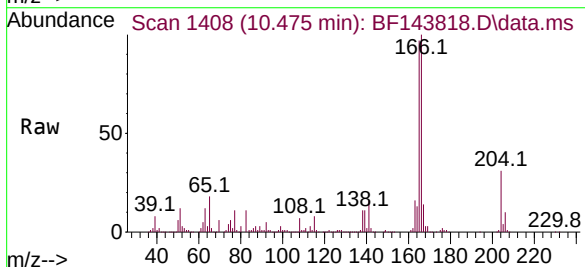
Instrument :  
BNA\_F  
ClientSampleId :  
EME-TS14-01MSD

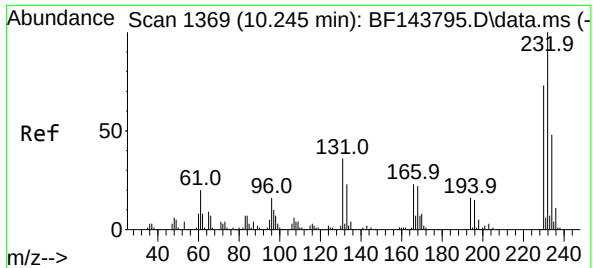
Tgt Ion:165 Resp: 198890  
Ion Ratio Lower Upper  
165 100  
63 57.7 48.9 73.3  
89 67.8 57.5 86.3  
182 2.5 2.0 3.0



#58  
Fluorene  
Concen: 49.006 ng  
RT: 10.475 min Scan# 1408  
Delta R.T. 0.000 min  
Lab File: BF143818.D  
Acq: 25 Sep 2025 22:20

Tgt Ion:166 Resp: 609725  
Ion Ratio Lower Upper  
166 100  
165 96.8 78.0 117.0  
167 13.5 10.9 16.3

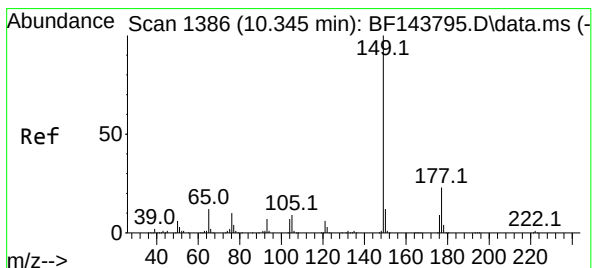
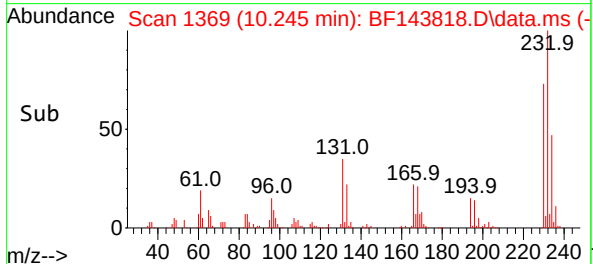
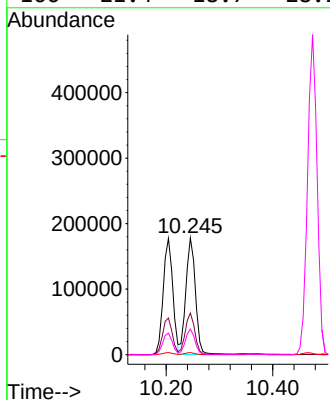
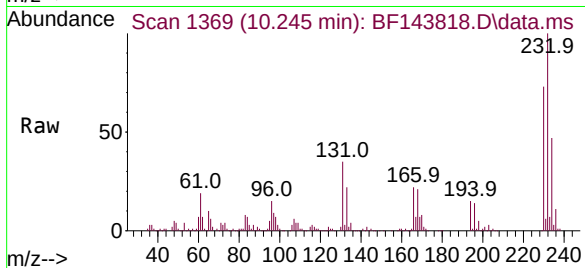




#59  
2,3,4,6-Tetrachlorophenol  
Concen: 59.212 ng  
RT: 10.245 min Scan# 1369  
Delta R.T. 0.000 min  
Lab File: BF143818.D  
Acq: 25 Sep 2025 22:20

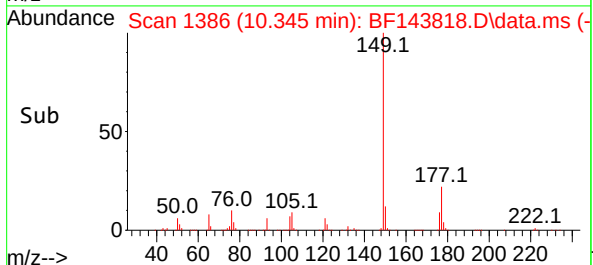
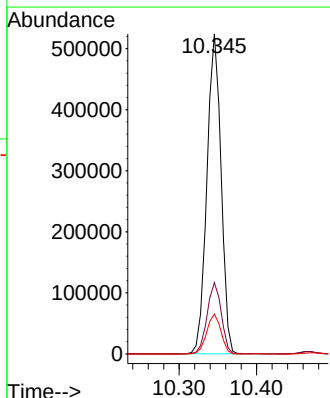
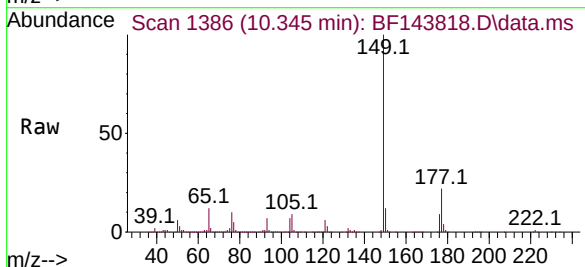
Instrument :  
BNA\_F  
ClientSampleId :  
EME-TS14-01MSD

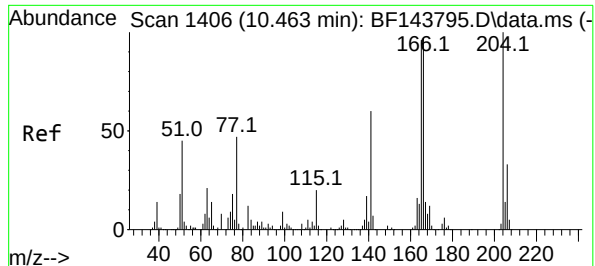
Tgt Ion:232 Resp: 224793  
Ion Ratio Lower Upper  
232 100  
131 35.0 29.4 44.2  
130 1.7 1.3 1.9  
166 21.4 18.7 28.1



#60  
Diethylphthalate  
Concen: 51.844 ng  
RT: 10.345 min Scan# 1386  
Delta R.T. 0.000 min  
Lab File: BF143818.D  
Acq: 25 Sep 2025 22:20

Tgt Ion:149 Resp: 663203  
Ion Ratio Lower Upper  
149 100  
177 22.3 18.1 27.1  
150 12.5 9.7 14.5

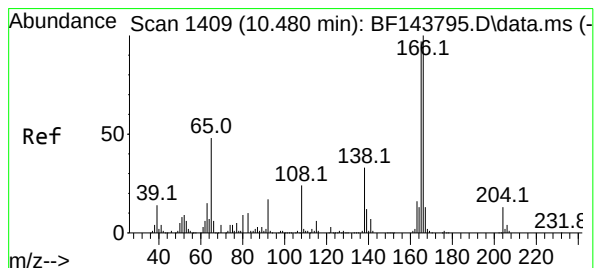
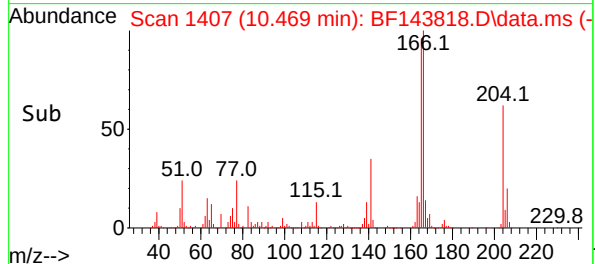
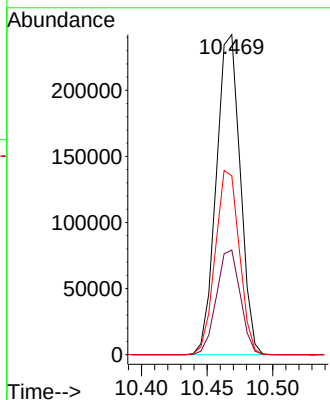
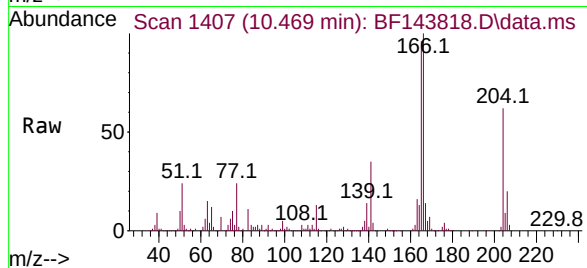




#61  
4-Chlorophenyl-phenylether  
Concen: 48.780 ng  
RT: 10.469 min Scan# 1410  
Delta R.T. 0.000 min  
Lab File: BF143818.D  
Acq: 25 Sep 2025 22:20

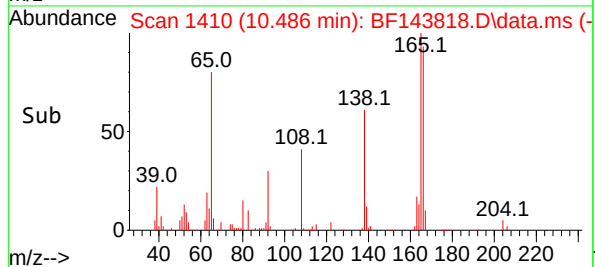
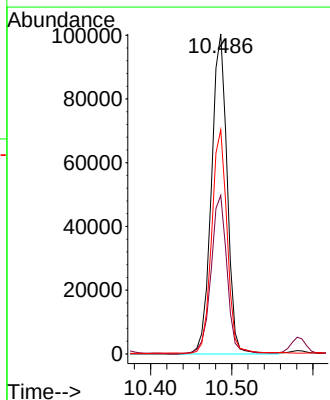
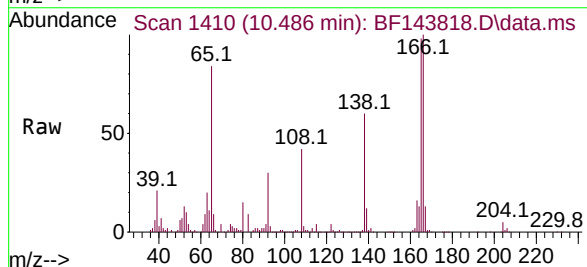
Instrument :  
BNA\_F  
ClientSampleId :  
EME-TS14-01MSD

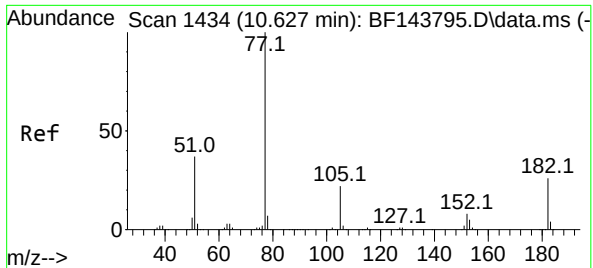
Tgt Ion:204 Resp: 309245  
Ion Ratio Lower Upper  
204 100  
206 32.7 26.7 40.1  
141 55.9 48.2 72.2



#62  
4-Nitroaniline  
Concen: 52.859 ng  
RT: 10.486 min Scan# 1410  
Delta R.T. -0.006 min  
Lab File: BF143818.D  
Acq: 25 Sep 2025 22:20

Tgt Ion:138 Resp: 135264  
Ion Ratio Lower Upper  
138 100  
92 49.5 31.5 71.5  
108 70.0 51.9 91.9

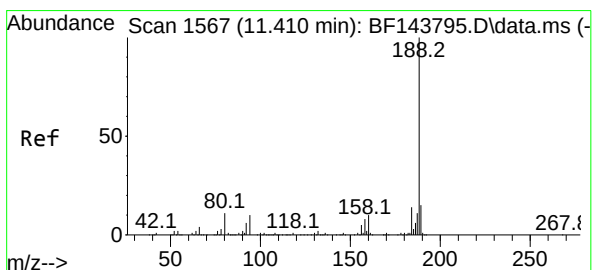
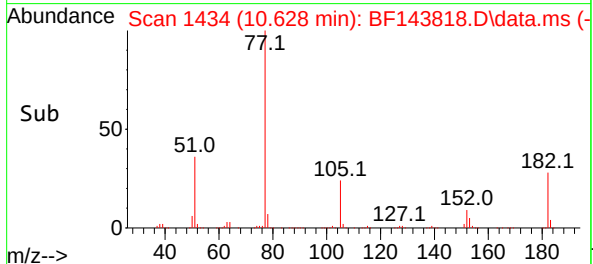
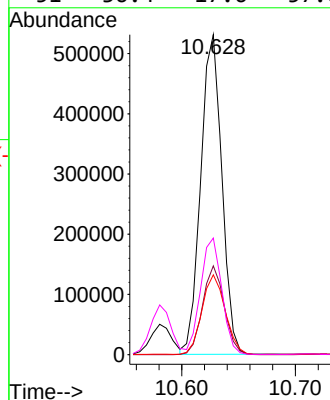
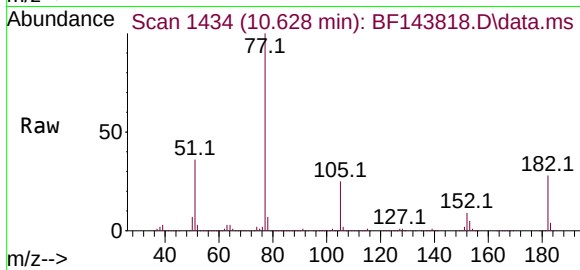




#63  
Azobenzene  
Concen: 50.885 ng  
RT: 10.628 min Scan# 1434  
Delta R.T. 0.000 min  
Lab File: BF143818.D  
Acq: 25 Sep 2025 22:20

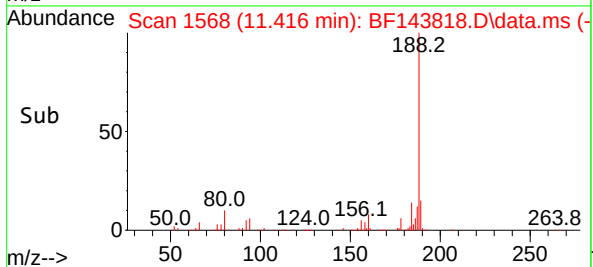
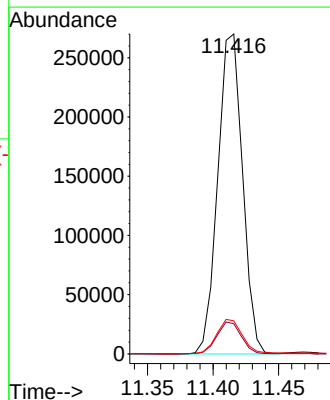
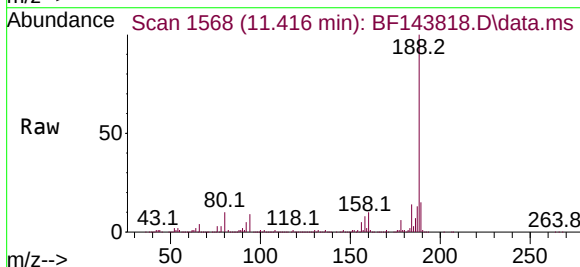
Instrument :  
BNA\_F  
ClientSampleId :  
EME-TS14-01MSD

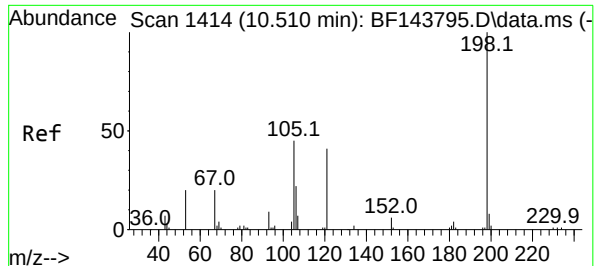
Tgt Ion: 77 Resp: 686022  
Ion Ratio Lower Upper  
77 100  
182 27.7 5.9 45.9  
105 24.9 2.3 42.3  
51 36.4 17.6 57.6



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.416 min Scan# 1568  
Delta R.T. -0.000 min  
Lab File: BF143818.D  
Acq: 25 Sep 2025 22:20

Tgt Ion: 188 Resp: 355718  
Ion Ratio Lower Upper  
188 100  
94 9.4 8.2 12.2  
80 10.3 8.6 12.8

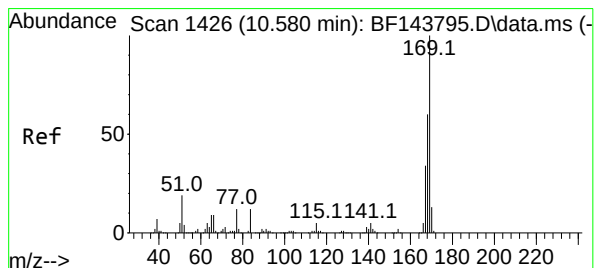
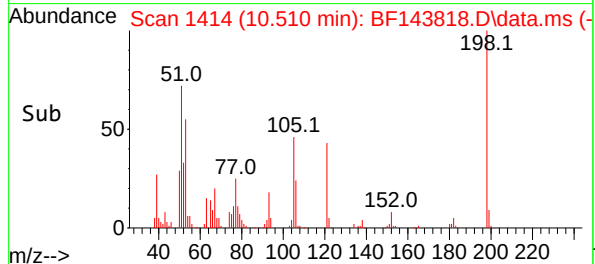
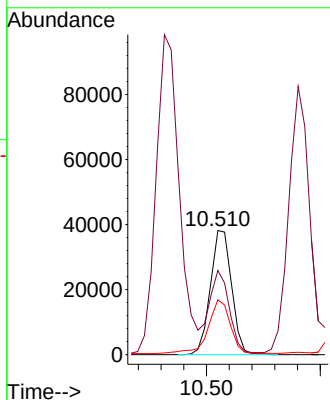
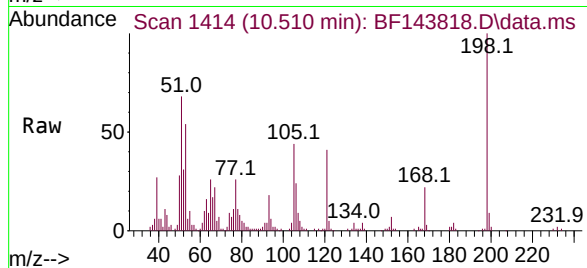




#65  
4,6-Dinitro-2-methylphenol  
Concen: 40.135 ng  
RT: 10.510 min Scan# 1414  
Delta R.T. -0.006 min  
Lab File: BF143818.D  
Acq: 25 Sep 2025 22:20

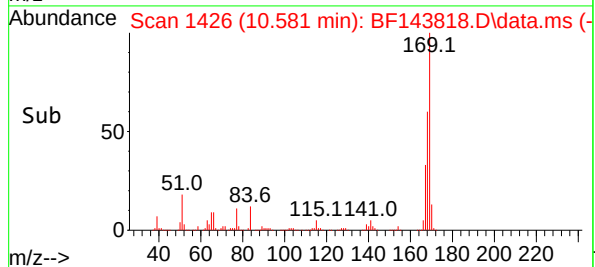
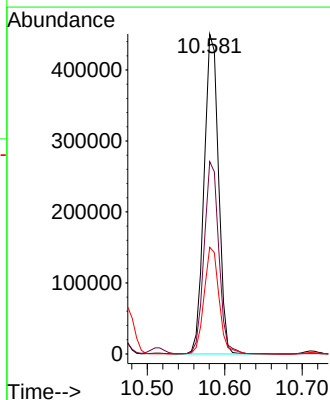
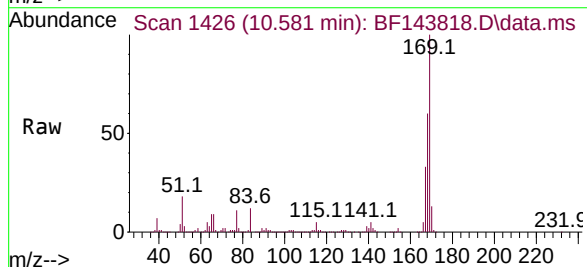
Instrument :  
BNA\_F  
ClientSampleId :  
EME-TS14-01MSD

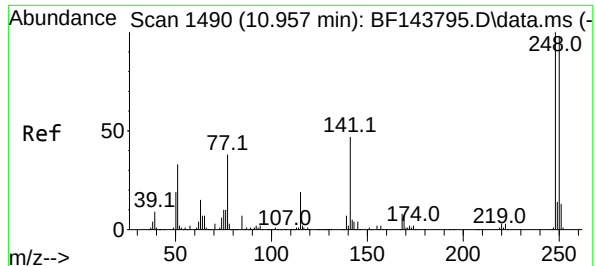
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 198     | 100   |       |       |
| 51      | 67.8  | 52.0  | 92.0  |
| 105     | 44.2  | 27.5  | 67.5  |



#66  
n-Nitrosodiphenylamine  
Concen: 49.648 ng  
RT: 10.581 min Scan# 1426  
Delta R.T. -0.006 min  
Lab File: BF143818.D  
Acq: 25 Sep 2025 22:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 169     | 100   |       |       |
| 168     | 60.1  | 47.9  | 71.9  |
| 167     | 33.3  | 27.0  | 40.6  |

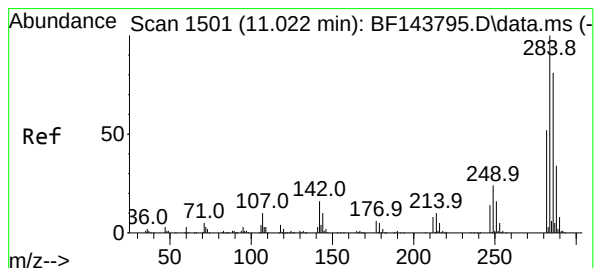
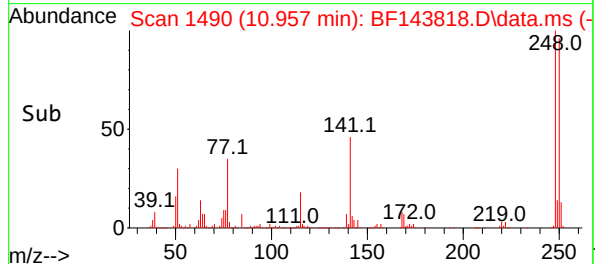
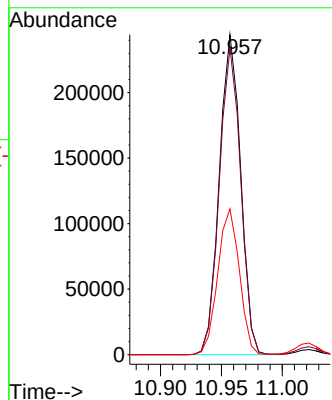
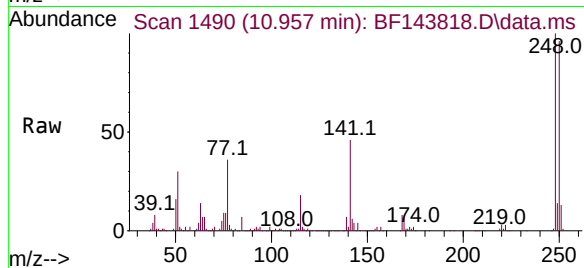




#67  
4-Bromophenyl-phenylether  
Concen: 49.115 ng  
RT: 10.957 min Scan# 1490  
Delta R.T. 0.000 min  
Lab File: BF143818.D  
Acq: 25 Sep 2025 22:20

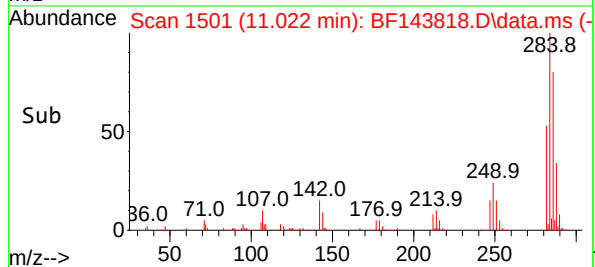
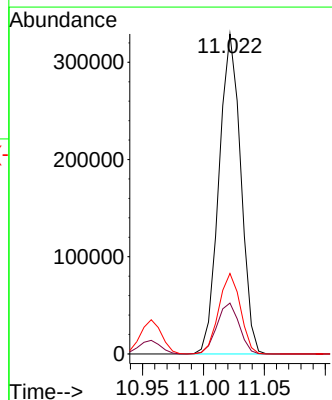
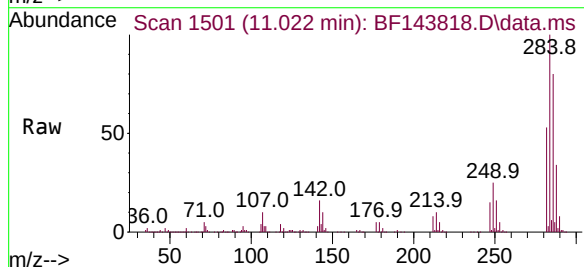
Instrument :  
BNA\_F  
ClientSampleId :  
EME-TS14-01MSD

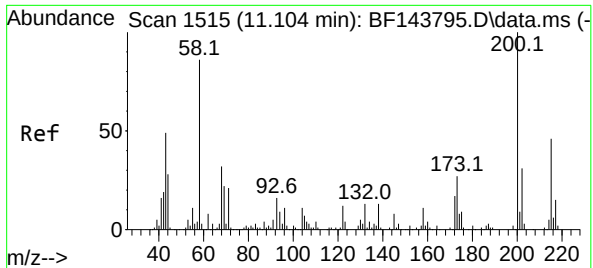
Tgt Ion:248 Resp: 297735  
Ion Ratio Lower Upper  
248 100  
250 95.8 78.7 118.1  
141 45.5 37.9 56.9



#68  
Hexachlorobenzene  
Concen: 48.889 ng  
RT: 11.022 min Scan# 1501  
Delta R.T. 0.000 min  
Lab File: BF143818.D  
Acq: 25 Sep 2025 22:20

Tgt Ion:284 Resp: 408424  
Ion Ratio Lower Upper  
284 100  
142 15.9 13.1 19.7  
249 25.1 19.5 29.3





#69

Atrazine

Concen: 53.765 ng

RT: 11.110 min Scan# 1516

Delta R.T. 0.000 min

Lab File: BF143818.D

Acq: 25 Sep 2025 22:20

Instrument :

BNA\_F

ClientSampleId :

EME-TS14-01MSD

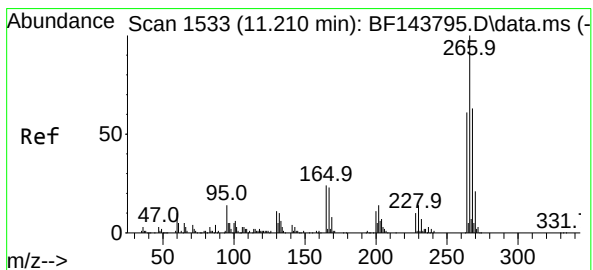
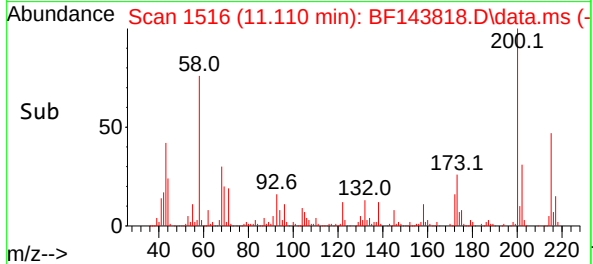
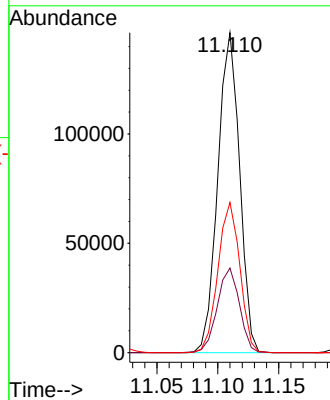
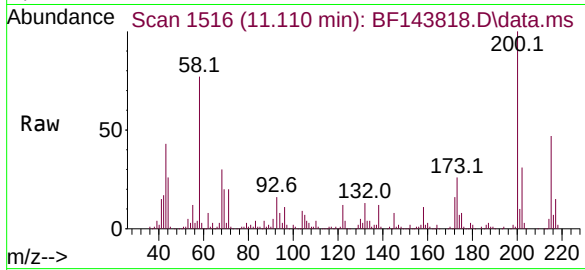
Tgt Ion:200 Resp: 182138

Ion Ratio Lower Upper

200 100

173 26.4 7.2 47.2

215 46.9 26.0 66.0



#70

Pentachlorophenol

Concen: 114.806 ng

RT: 11.216 min Scan# 1534

Delta R.T. 0.000 min

Lab File: BF143818.D

Acq: 25 Sep 2025 22:20

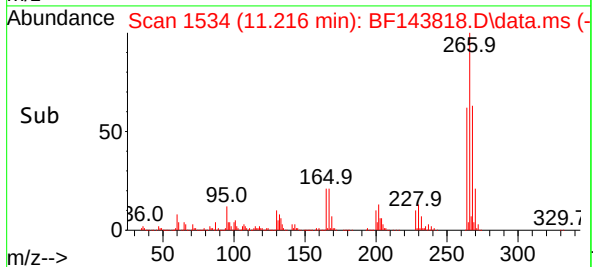
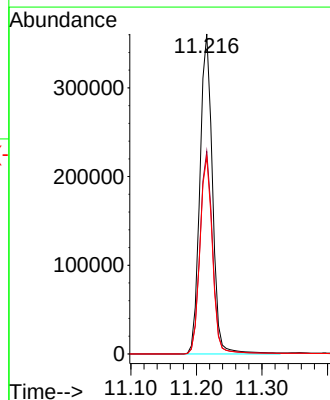
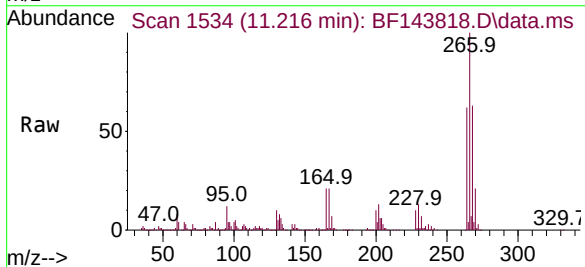
Tgt Ion:266 Resp: 477417

Ion Ratio Lower Upper

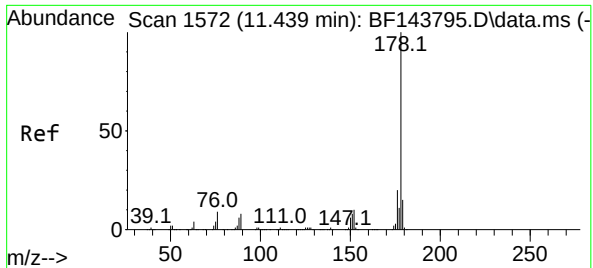
266 100

268 63.2 50.5 75.7

264 61.6 48.8 73.2



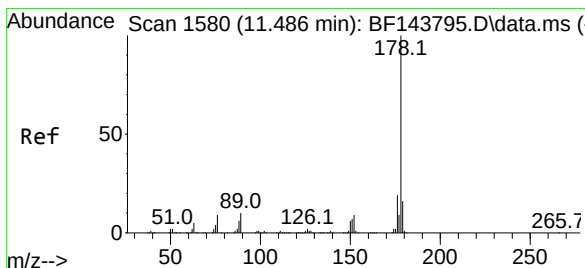
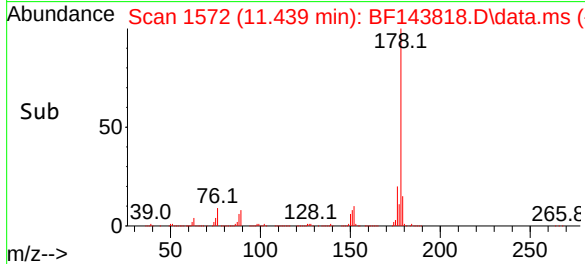
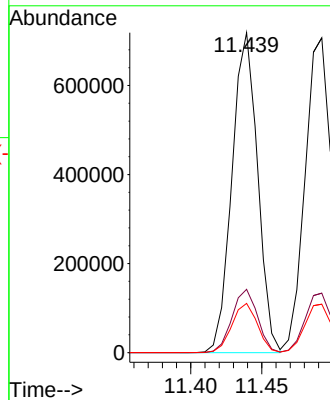
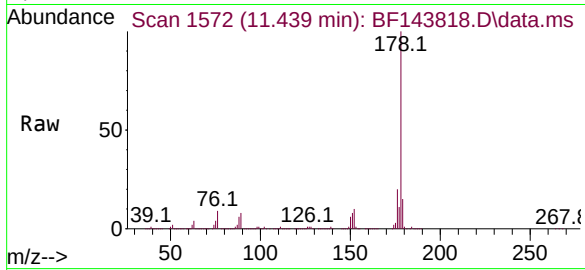




#71  
Phenanthrene  
Concen: 49.349 ng  
RT: 11.439 min Scan# 1572  
Delta R.T. 0.000 min  
Lab File: BF143818.D  
Acq: 25 Sep 2025 22:20

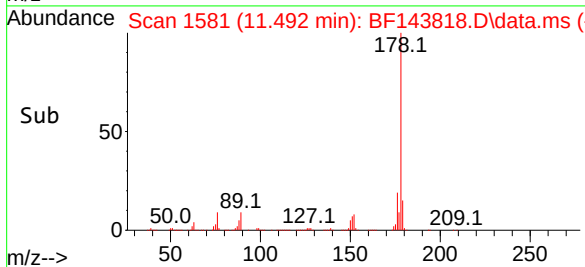
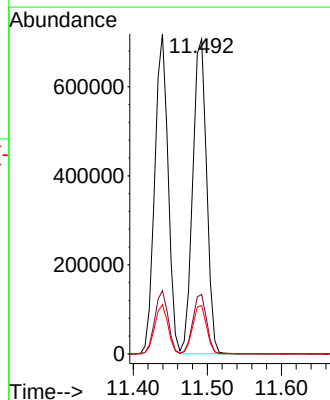
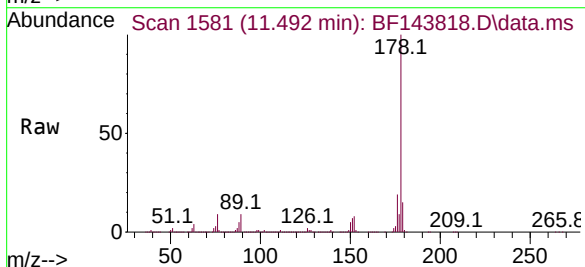
Instrument :  
BNA\_F  
ClientSampleId :  
EME-TS14-01MSD

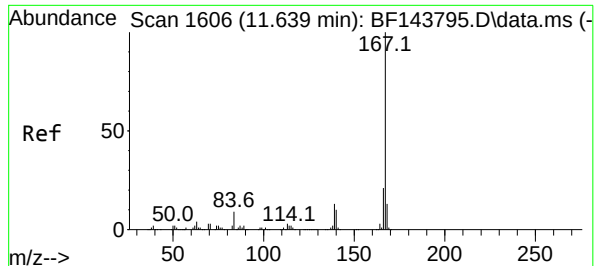
Tgt Ion:178 Resp: 901235  
Ion Ratio Lower Upper  
178 100  
176 19.8 15.6 23.4  
179 15.4 12.2 18.4



#72  
Anthracene  
Concen: 50.167 ng  
RT: 11.492 min Scan# 1581  
Delta R.T. 0.000 min  
Lab File: BF143818.D  
Acq: 25 Sep 2025 22:20

Tgt Ion:178 Resp: 918987  
Ion Ratio Lower Upper  
178 100  
176 18.9 15.3 22.9  
179 15.4 12.8 19.2

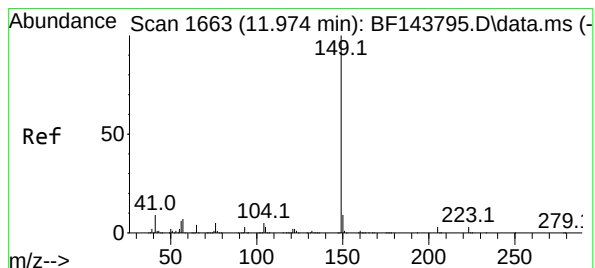
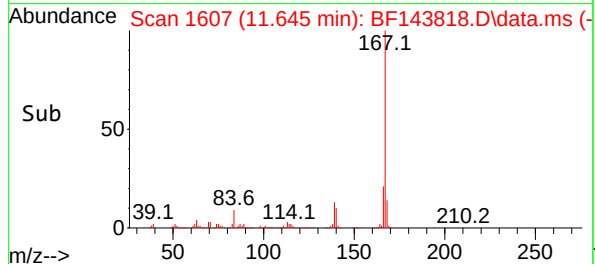
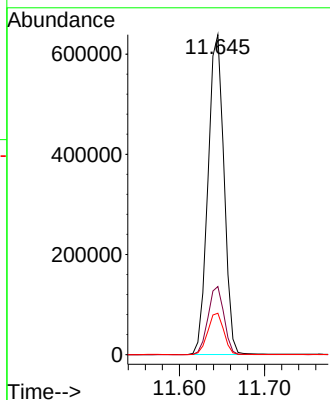
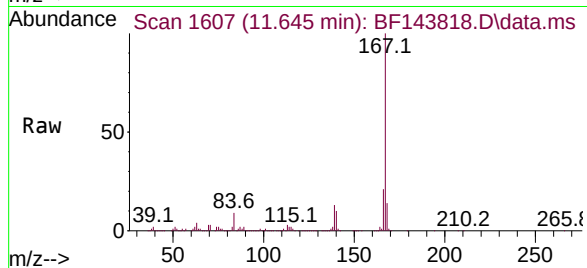




#73  
Carbazole  
Concen: 51.953 ng  
RT: 11.645 min Scan# 1606  
Delta R.T. 0.000 min  
Lab File: BF143818.D  
Acq: 25 Sep 2025 22:20

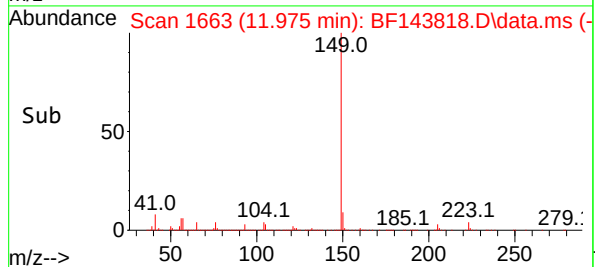
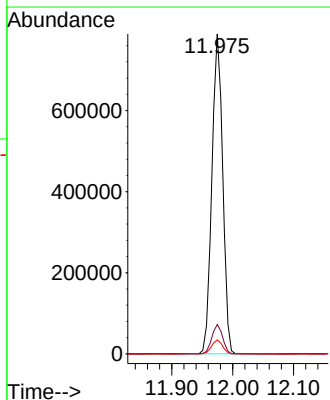
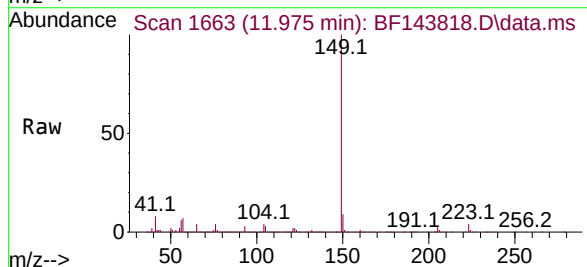
Instrument :  
BNA\_F  
ClientSampleId :  
EME-TS14-01MSD

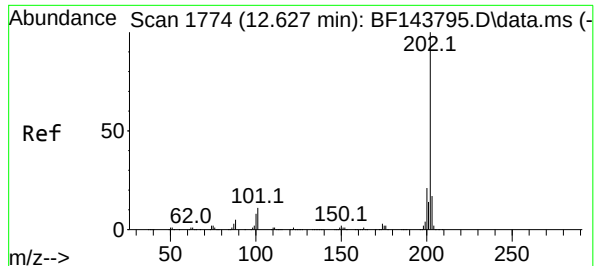
Tgt Ion:167 Resp: 832102  
Ion Ratio Lower Upper  
167 100  
166 21.3 17.0 25.4  
139 12.9 10.6 15.8



#74  
Di-n-butylphthalate  
Concen: 52.810 ng  
RT: 11.975 min Scan# 1663  
Delta R.T. 0.000 min  
Lab File: BF143818.D  
Acq: 25 Sep 2025 22:20

Tgt Ion:149 Resp: 972765  
Ion Ratio Lower Upper  
149 100  
150 9.2 7.3 10.9  
104 4.4 3.6 5.4





#75

Fluoranthene

Concen: 56.557 ng

RT: 12.628 min Scan# 11

Delta R.T. 0.000 min

Lab File: BF143818.D

Acq: 25 Sep 2025 22:20

Instrument :

BNA\_F

ClientSampleId :

EME-TS14-01MSD

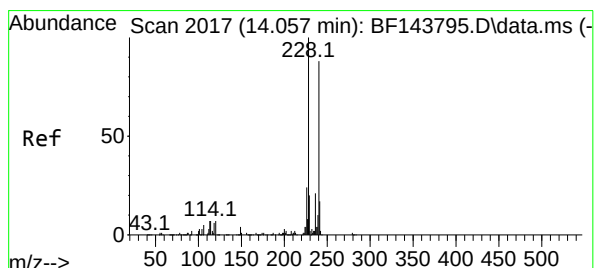
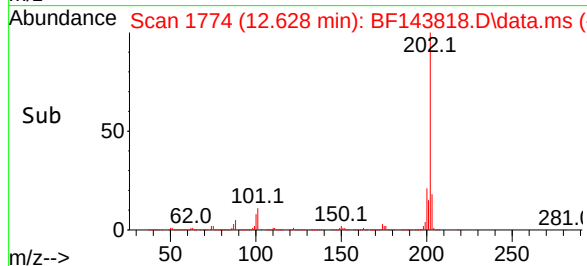
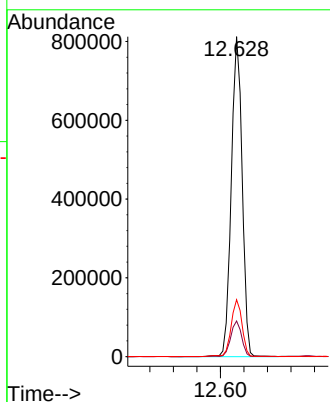
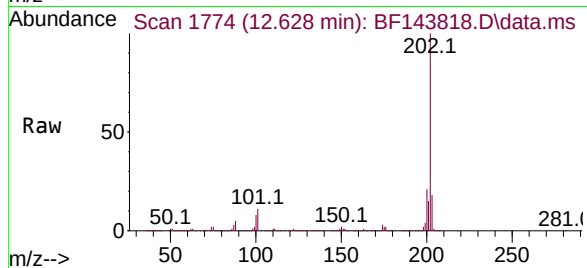
Tgt Ion:202 Resp: 1038840

Ion Ratio Lower Upper

202 100

101 11.1 0.0 31.1

203 17.8 0.0 37.4



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.063 min Scan# 2018

Delta R.T. 0.000 min

Lab File: BF143818.D

Acq: 25 Sep 2025 22:20

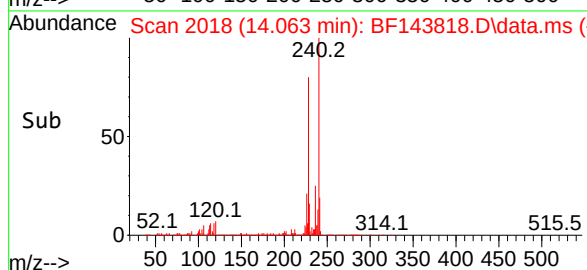
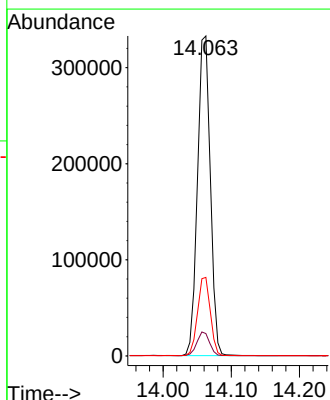
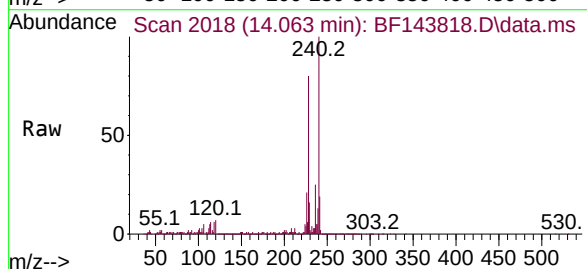
Tgt Ion:240 Resp: 435935

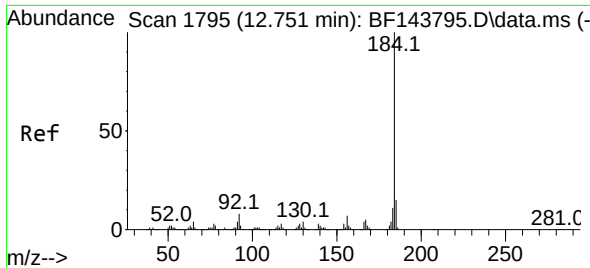
Ion Ratio Lower Upper

240 100

120 7.0 6.2 9.4

236 24.5 19.4 29.2

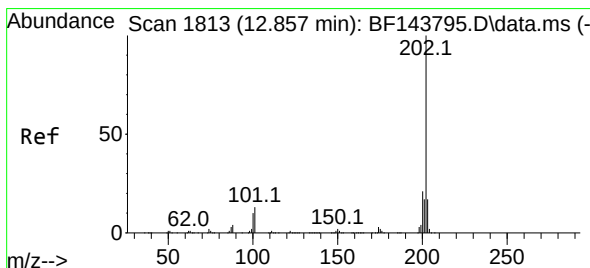
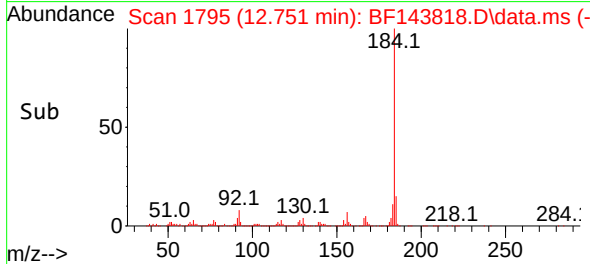
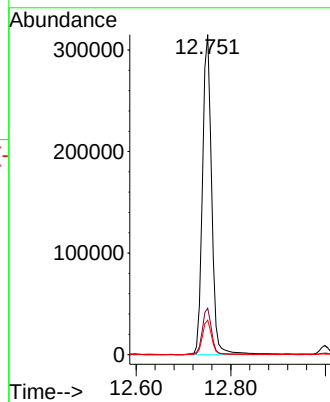
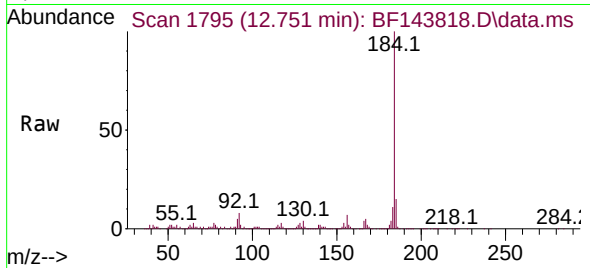




#77  
Benzidine  
Concen: 39.859 ng  
RT: 12.751 min Scan# 1795  
Delta R.T. 0.000 min  
Lab File: BF143818.D  
Acq: 25 Sep 2025 22:20

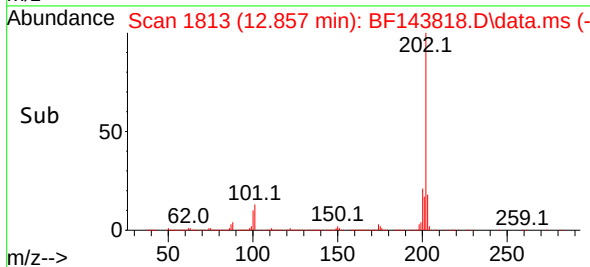
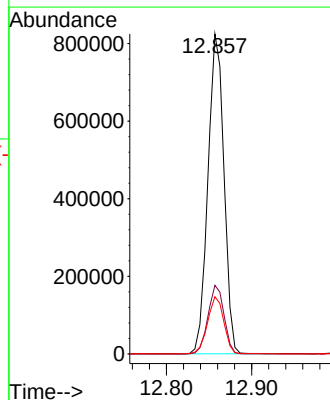
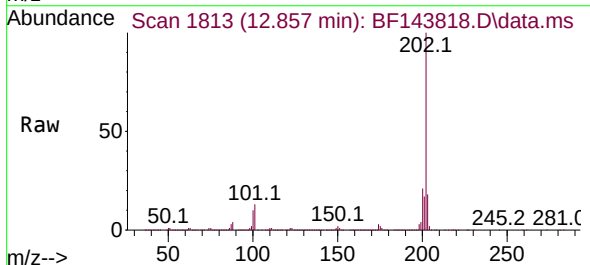
Instrument :  
BNA\_F  
ClientSampleId :  
EME-TS14-01MSD

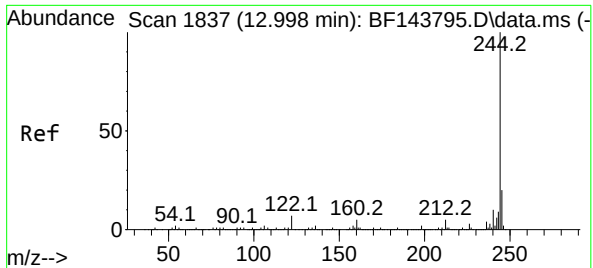
Tgt Ion:184 Resp: 423409  
Ion Ratio Lower Upper  
184 100  
185 14.5 11.6 17.4  
183 10.8 8.6 13.0



#78  
Pyrene  
Concen: 50.222 ng  
RT: 12.857 min Scan# 1813  
Delta R.T. 0.000 min  
Lab File: BF143818.D  
Acq: 25 Sep 2025 22:20

Tgt Ion:202 Resp: 1076385  
Ion Ratio Lower Upper  
202 100  
200 21.4 17.0 25.4  
203 17.9 13.9 20.9





#79

Terphenyl-d14

Concen: 53.148 ng

RT: 12.998 min Scan# 1837

Delta R.T. -0.006 min

Lab File: BF143818.D

Acq: 25 Sep 2025 22:20

Instrument :

BNA\_F

ClientSampleId :

EME-TS14-01MSD

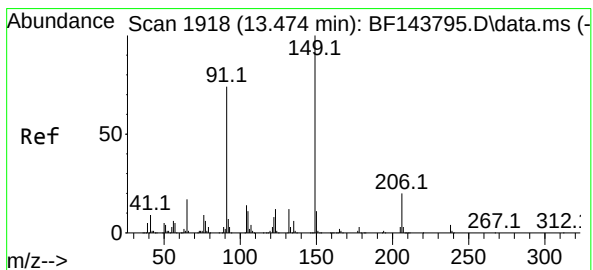
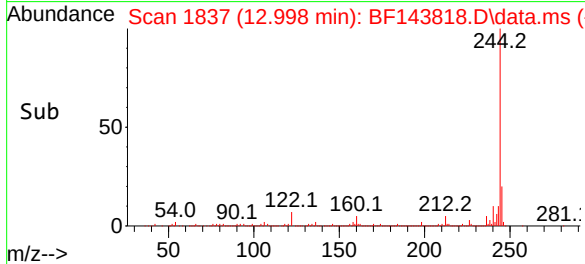
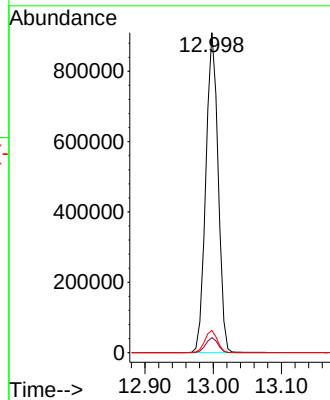
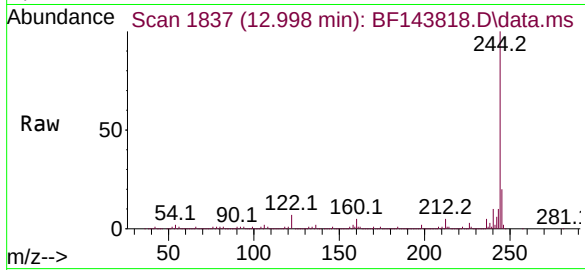
Tgt Ion:244 Resp: 1139227

Ion Ratio Lower Upper

244 100

212 4.7 3.9 5.9

122 6.9 5.6 8.4



#80

Butylbenzylphthalate

Concen: 58.241 ng

RT: 13.475 min Scan# 1918

Delta R.T. -0.006 min

Lab File: BF143818.D

Acq: 25 Sep 2025 22:20

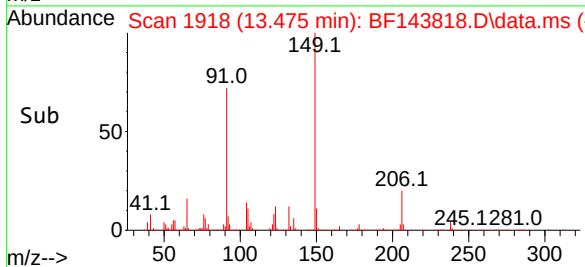
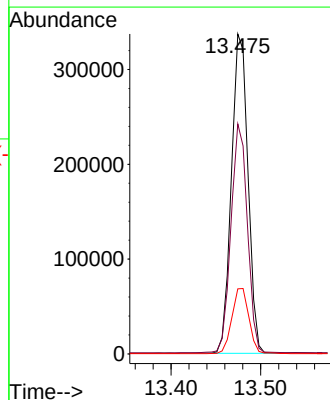
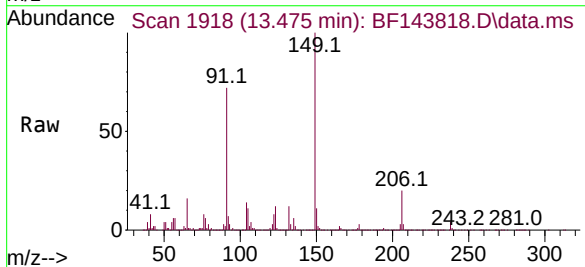
Tgt Ion:149 Resp: 431860

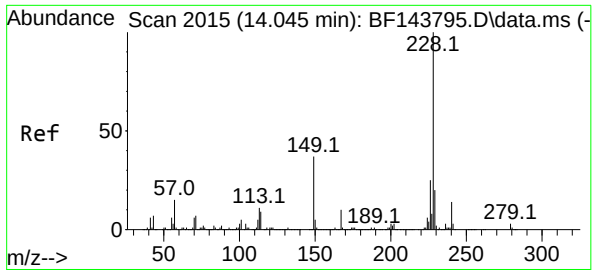
Ion Ratio Lower Upper

149 100

91 71.9 59.5 89.3

206 20.3 16.1 24.1

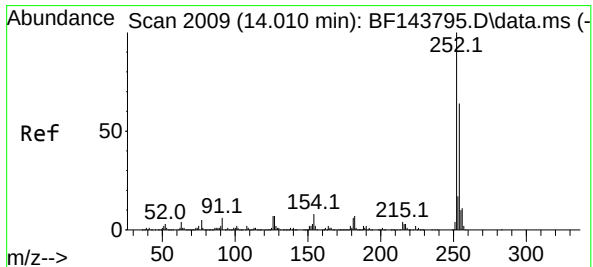
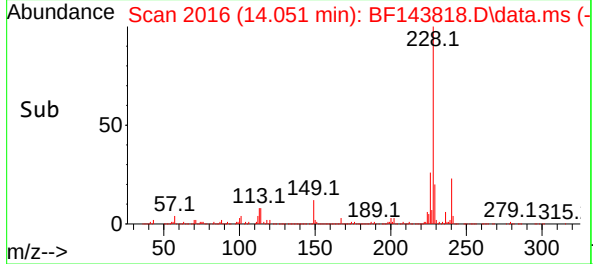
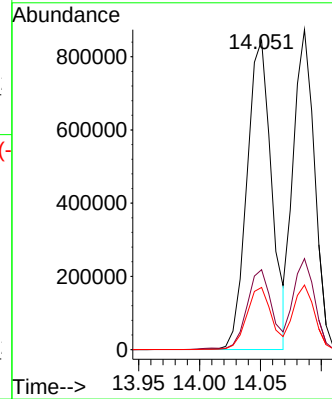
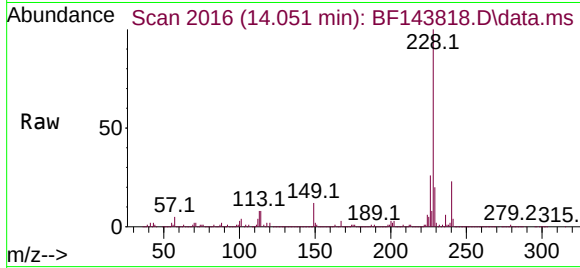




#81  
Benzo(a)anthracene  
Concen: 51.150 ng  
RT: 14.051 min Scan# 2015  
Delta R.T. 0.000 min  
Lab File: BF143818.D  
Acq: 25 Sep 2025 22:20

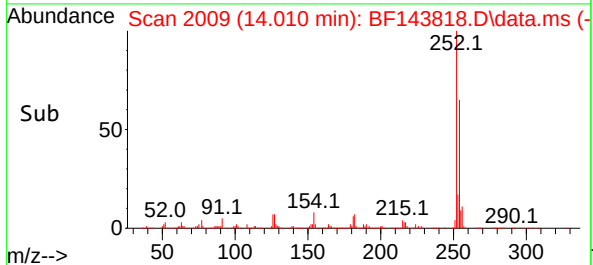
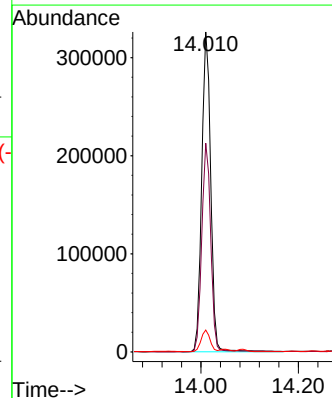
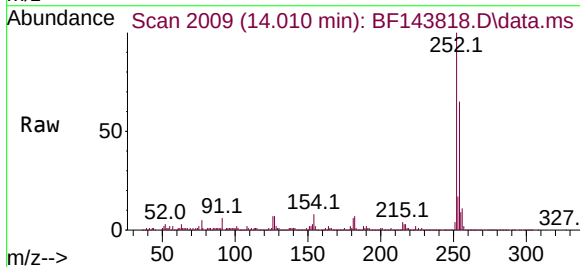
Instrument :  
BNA\_F  
ClientSampleId :  
EME-TS14-01MSD

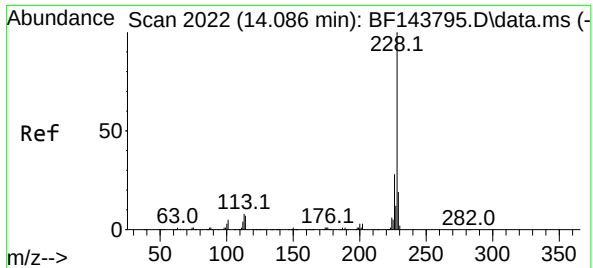
Tgt Ion:228 Resp: 1197901  
Ion Ratio Lower Upper  
228 100  
226 25.8 20.2 30.2  
229 20.1 16.1 24.1



#82  
3,3'-Dichlorobenzidine  
Concen: 40.930 ng  
RT: 14.010 min Scan# 2009  
Delta R.T. 0.000 min  
Lab File: BF143818.D  
Acq: 25 Sep 2025 22:20

Tgt Ion:252 Resp: 415267  
Ion Ratio Lower Upper  
252 100  
254 65.2 51.5 77.3  
126 6.8 5.4 8.2

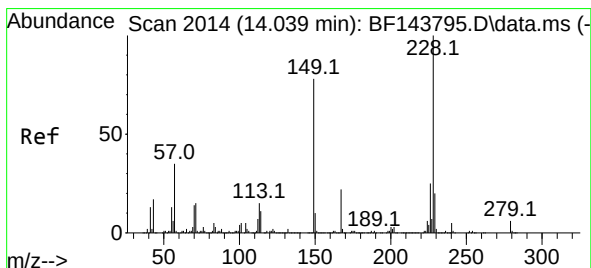
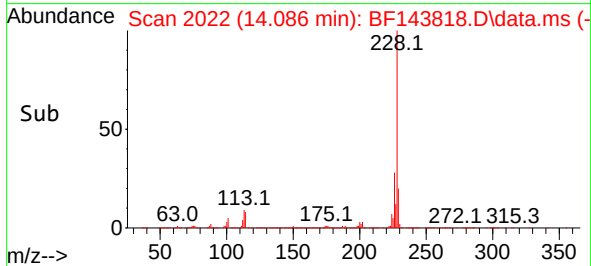
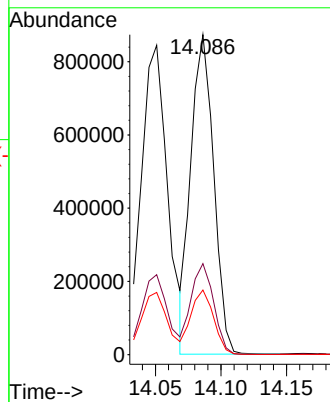
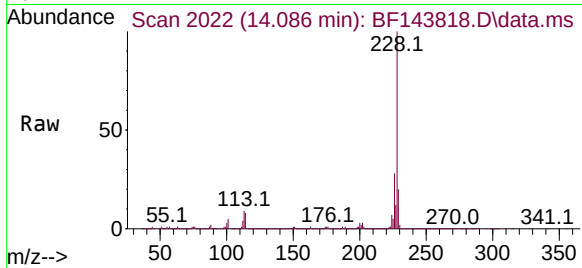




#83  
Chrysene  
Concen: 49.840 ng  
RT: 14.086 min Scan# 2022  
Delta R.T. 0.000 min  
Lab File: BF143818.D  
Acq: 25 Sep 2025 22:20

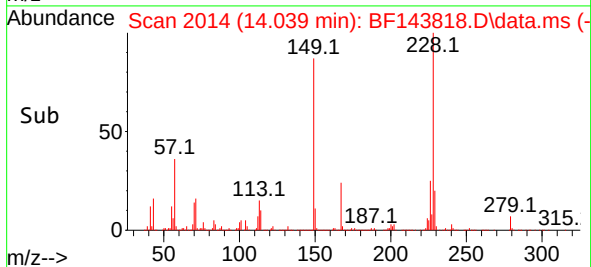
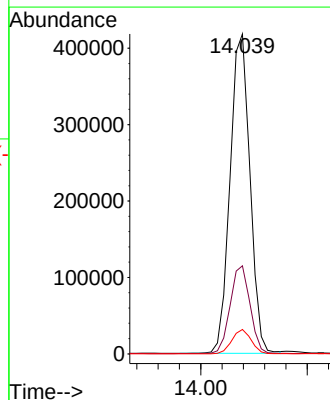
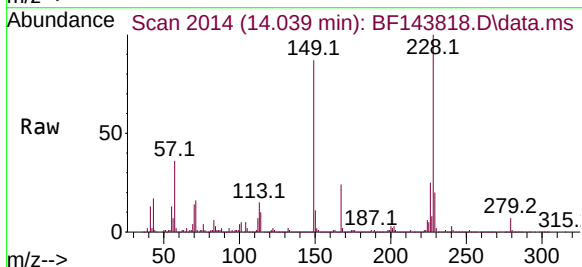
Instrument :  
BNA\_F  
ClientSampleId :  
EME-TS14-01MSD

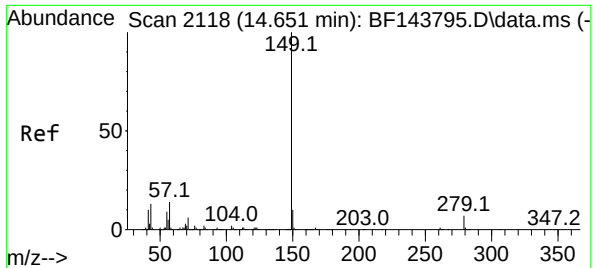
Tgt Ion:228 Resp: 1056176  
Ion Ratio Lower Upper  
228 100  
226 28.4 22.6 33.8  
229 20.2 15.6 23.4



#84  
Bis(2-ethylhexyl)phthalate  
Concen: 49.858 ng  
RT: 14.039 min Scan# 2014  
Delta R.T. 0.000 min  
Lab File: BF143818.D  
Acq: 25 Sep 2025 22:20

Tgt Ion:149 Resp: 541890  
Ion Ratio Lower Upper  
149 100  
167 27.5 22.2 33.2  
279 7.6 6.0 9.0

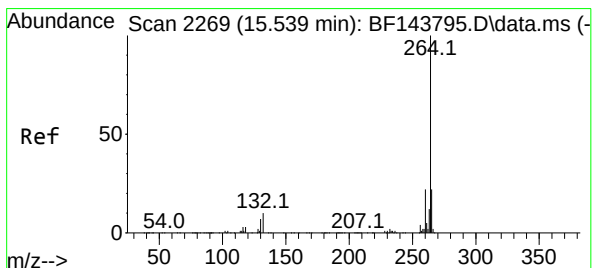
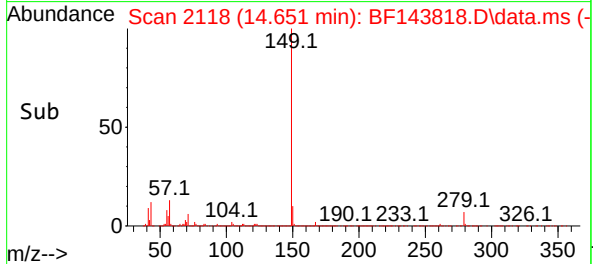
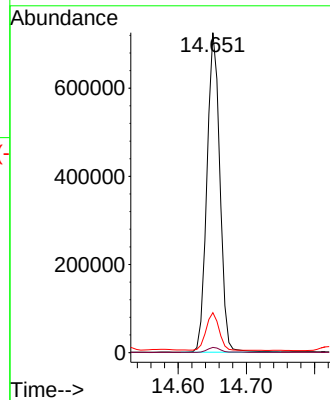
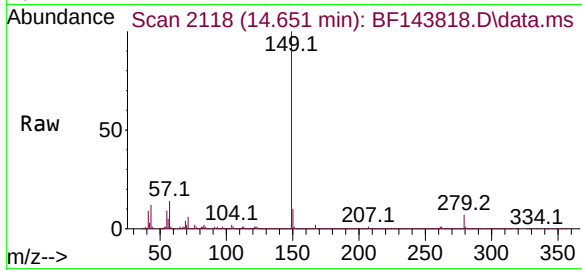




#85  
Di-n-octyl phthalate  
Concen: 48.560 ng  
RT: 14.651 min Scan# 2118  
Delta R.T. -0.006 min  
Lab File: BF143818.D  
Acq: 25 Sep 2025 22:20

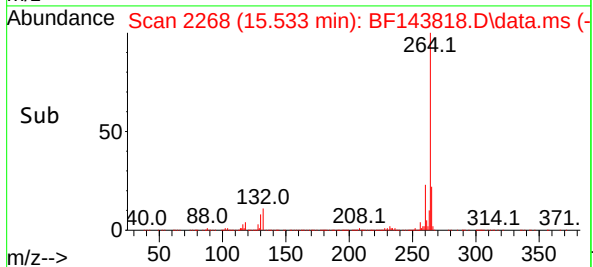
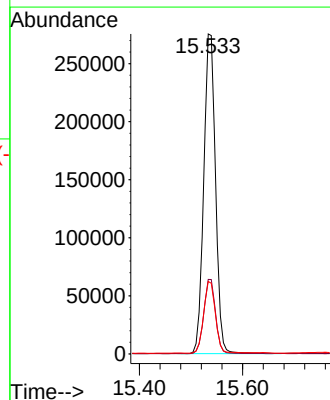
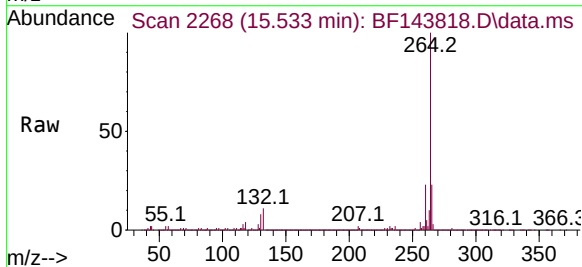
Instrument :  
BNA\_F  
ClientSampleId :  
EME-TS14-01MSD

Tgt Ion:149 Resp: 957368  
Ion Ratio Lower Upper  
149 100  
167 1.7 1.1 1.7  
43 12.0 10.7 16.1

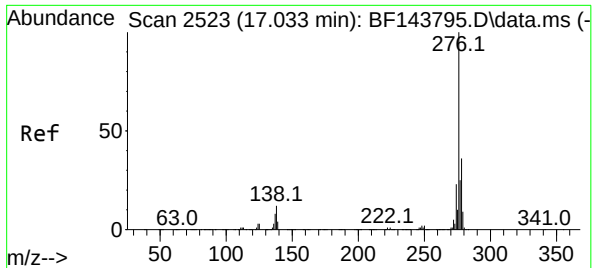


#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.533 min Scan# 2268  
Delta R.T. -0.006 min  
Lab File: BF143818.D  
Acq: 25 Sep 2025 22:20

Tgt Ion:264 Resp: 434629  
Ion Ratio Lower Upper  
264 100  
260 23.3 17.9 26.9  
265 22.6 17.7 26.5



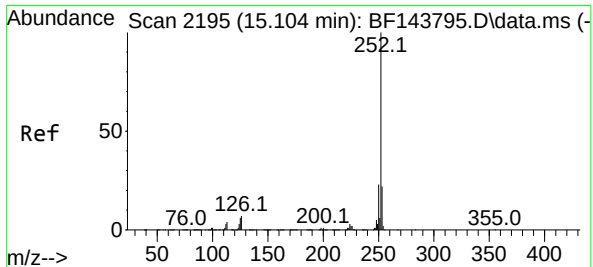
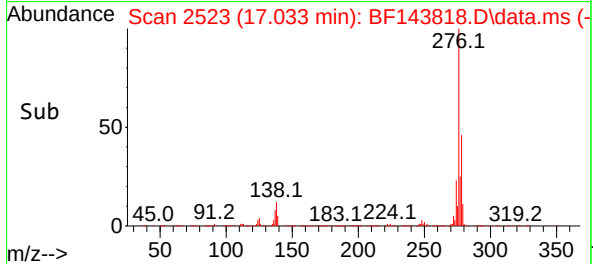
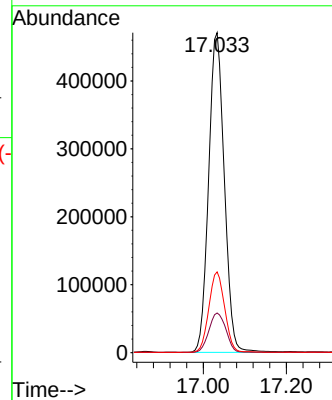
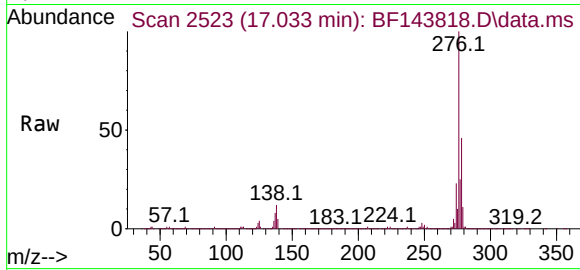




#87  
 Indeno(1,2,3-cd)pyrene  
 Concen: 37.358 ng  
 RT: 17.033 min Scan# 21  
 Delta R.T. -0.012 min  
 Lab File: BF143818.D  
 Acq: 25 Sep 2025 22:20

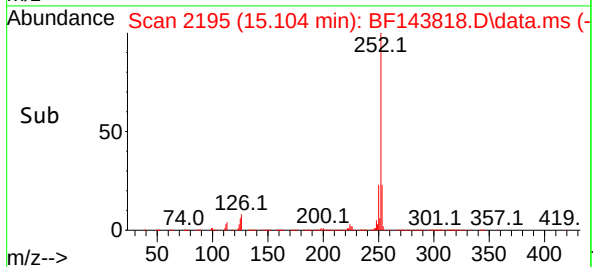
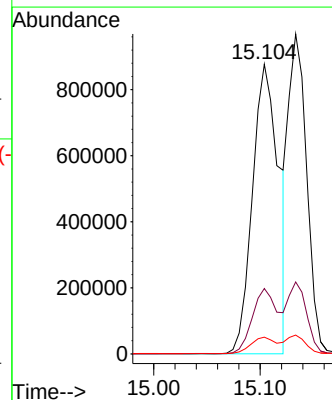
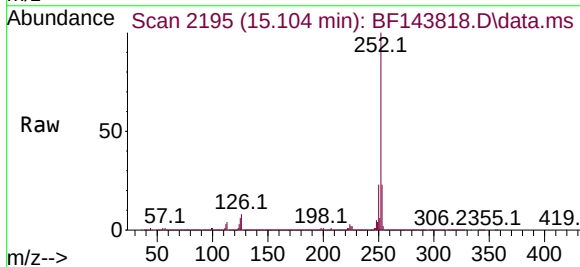
Instrument :  
 BNA\_F  
 ClientSampleId :  
 EME-TS14-01MSD

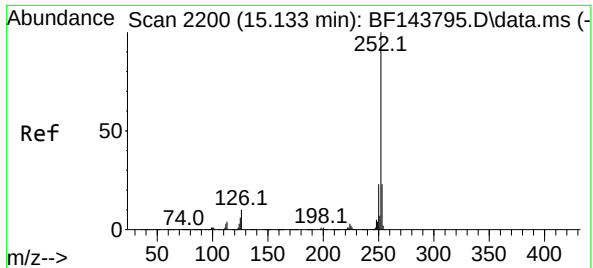
Tgt Ion:276 Resp: 1231964  
 Ion Ratio Lower Upper  
 276 100  
 138 13.4 10.6 15.8  
 277 25.6 20.7 31.1



#88  
 Benzo(b)fluoranthene  
 Concen: 67.687 ng  
 RT: 15.104 min Scan# 2195  
 Delta R.T. 0.000 min  
 Lab File: BF143818.D  
 Acq: 25 Sep 2025 22:20

Tgt Ion:252 Resp: 1498147  
 Ion Ratio Lower Upper  
 252 100  
 253 22.6 17.8 26.8  
 125 5.8 4.4 6.6





#89

Benzo(k)fluoranthene

Concen: 51.691 ng

RT: 15.133 min Scan# 2200

Delta R.T. -0.006 min

Lab File: BF143818.D

Acq: 25 Sep 2025 22:20

Instrument :

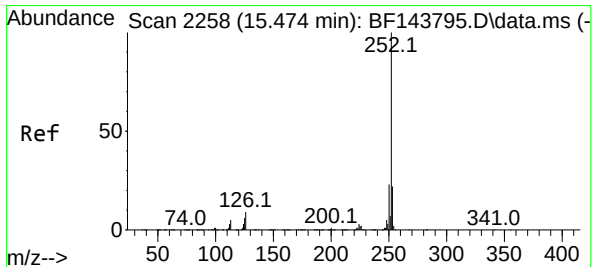
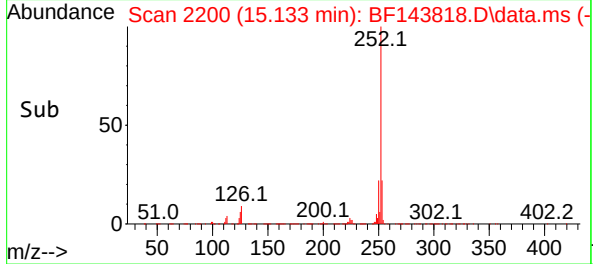
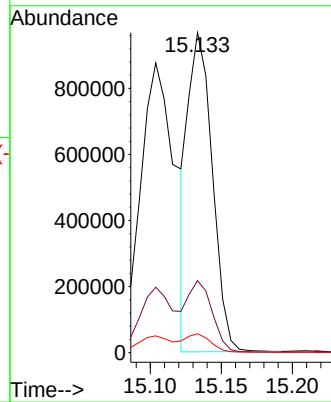
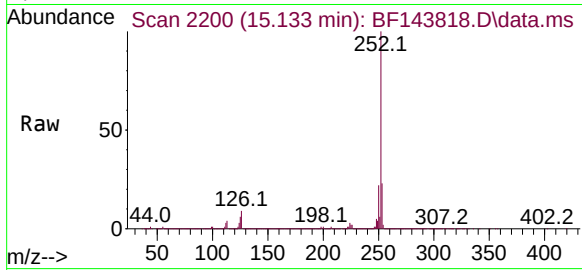
BNA\_F

ClientSampleId :

EME-TS14-01MSD

Tgt Ion:252 Resp: 1149445

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 22.5  | 17.9  | 26.9  |
| 125 | 5.9   | 4.6   | 6.8   |



#90

Benzo(a)pyrene

Concen: 56.101 ng

RT: 15.474 min Scan# 2258

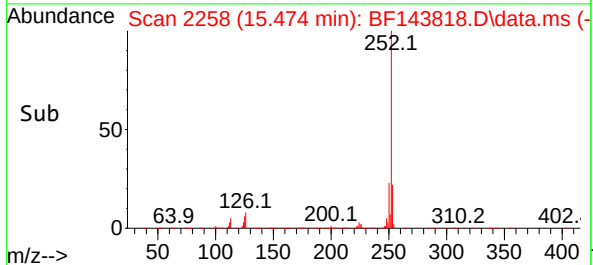
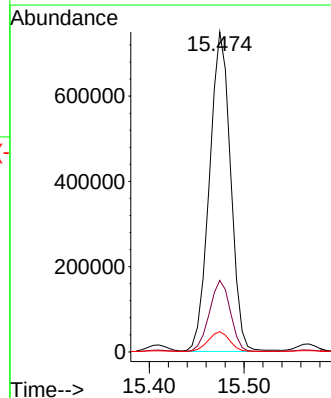
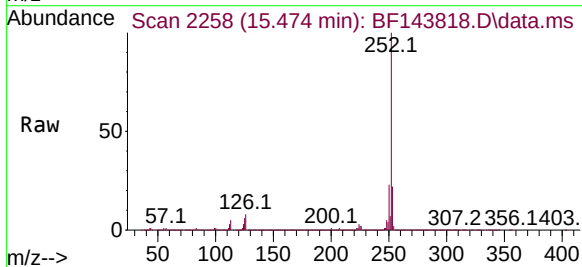
Delta R.T. -0.006 min

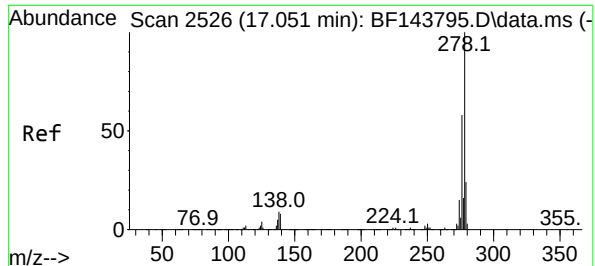
Lab File: BF143818.D

Acq: 25 Sep 2025 22:20

Tgt Ion:252 Resp: 1167187

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 22.3  | 17.6  | 26.4  |
| 125 | 6.3   | 5.0   | 7.4   |

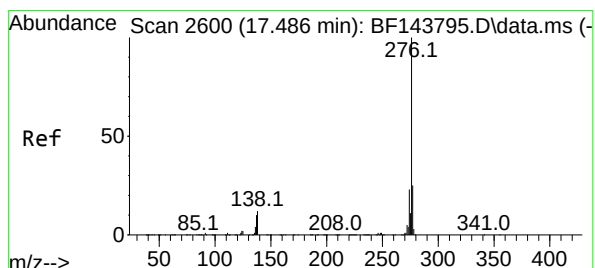
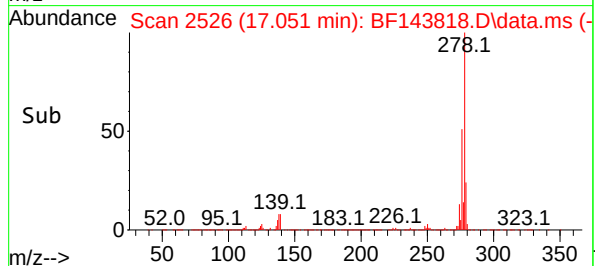
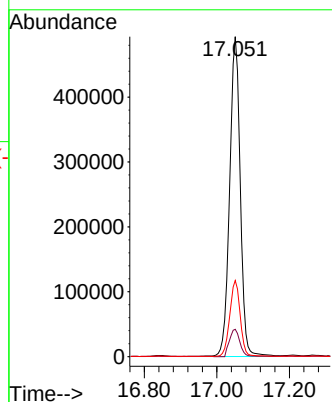
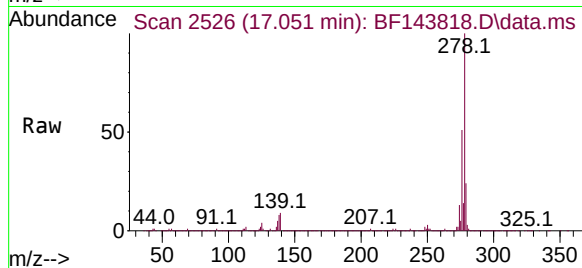




#91  
Dibenzo(a,h)anthracene  
Concen: 37.157 ng  
RT: 17.051 min Scan# 21  
Delta R.T. -0.017 min  
Lab File: BF143818.D  
Acq: 25 Sep 2025 22:20

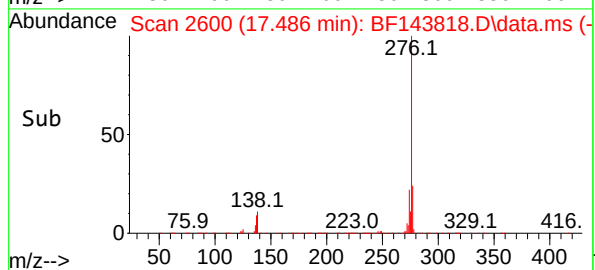
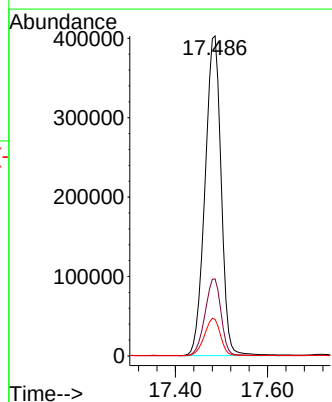
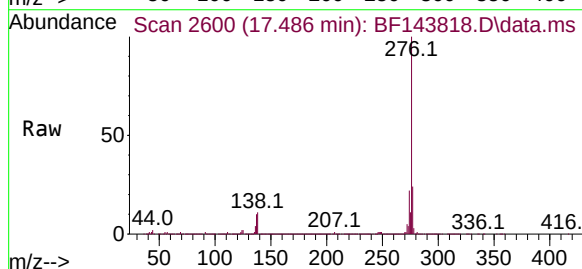
Instrument :  
BNA\_F  
ClientSampleId :  
EME-TS14-01MSD

Tgt Ion:278 Resp: 1002210  
Ion Ratio Lower Upper  
278 100  
139 8.5 6.7 10.1  
279 23.8 19.3 28.9



#92  
Benzo(g,h,i)perylene  
Concen: 37.385 ng  
RT: 17.486 min Scan# 2600  
Delta R.T. -0.017 min  
Lab File: BF143818.D  
Acq: 25 Sep 2025 22:20

Tgt Ion:276 Resp: 972031  
Ion Ratio Lower Upper  
276 100  
277 24.1 19.6 29.4  
138 11.4 9.2 13.8



## Manual Integration Report

|           |          |            |       |
|-----------|----------|------------|-------|
| Sequence: | BF092325 | Instrument | BNA_f |
|-----------|----------|------------|-------|

| Sample ID   | File ID    | Parameter | Review By | Review On            | Supervised By | Supervised On        | Reason                      |
|-------------|------------|-----------|-----------|----------------------|---------------|----------------------|-----------------------------|
| SSTDICC020  | BF143794.D | Phenol    | Rahul     | 9/24/2025 8:52:43 AM | Jagrut        | 9/24/2025 9:38:18 AM | Peak Integrated by Software |
| SSTDICCC040 | BF143795.D | Phenol    | Rahul     | 9/24/2025 8:52:46 AM | Jagrut        | 9/24/2025 9:38:20 AM | Peak Integrated by Software |
| SSTDICC050  | BF143796.D | Phenol    | Rahul     | 9/24/2025 8:52:48 AM | Jagrut        | 9/24/2025 9:38:23 AM | Peak Integrated by Software |
| SSTDICC060  | BF143797.D | Phenol    | Rahul     | 9/24/2025 8:52:51 AM | Jagrut        | 9/24/2025 9:38:25 AM | Peak Integrated by Software |
| SSTDICC080  | BF143798.D | Phenol    | Rahul     | 9/24/2025 8:52:54 AM | Jagrut        | 9/24/2025 9:38:28 AM | Peak Integrated by Software |
| SSTDICV040  | BF143799.D | Phenol    | Rahul     | 9/24/2025 8:52:56 AM | Jagrut        | 9/24/2025 9:38:31 AM | Peak Integrated by Software |

## Manual Integration Report

Sequence:

BF092525

Instrument

BNA\_f

| Sample ID  | File ID    | Parameter    | Review By | Review On            | Supervised By | Supervised On         | Reason                      |
|------------|------------|--------------|-----------|----------------------|---------------|-----------------------|-----------------------------|
| SSTDCCC040 | BF143802.D | Phenol       | Rahul     | 9/26/2025 9:06:37 AM | Jagrut        | 9/26/2025 11:07:45 AM | Peak Integrated by Software |
| PB169827BS | BF143804.D | Benzoic acid | Rahul     | 9/26/2025 9:06:40 AM | Jagrut        | 9/26/2025 11:07:47 AM | Peak Integrated by Software |
| PB169827BS | BF143804.D | Caprolactam  | Rahul     | 9/26/2025 9:06:40 AM | Jagrut        | 9/26/2025 11:07:47 AM | Peak Integrated by Software |
| PB169827BS | BF143804.D | Phenol       | Rahul     | 9/26/2025 9:06:40 AM | Jagrut        | 9/26/2025 11:07:47 AM | Peak Integrated by Software |

Instrument ID: BNA\_F

**Daily Analysis Runlog For Sequence/QC Batch ID # BF092325**

|                          |                                                         |                      |                      |
|--------------------------|---------------------------------------------------------|----------------------|----------------------|
| Review By                | Rahul                                                   | Review On            | 9/24/2025 8:53:16 AM |
| Supervise By             | Jagrut                                                  | Supervise On         | 9/24/2025 9:38:53 AM |
| SubDirectory             | BF092325                                                | HP Acquire Method    | BNA_F                |
|                          |                                                         | HP Processing Method | bf092325             |
| <b>STD. NAME</b>         | <b>STD REF.#</b>                                        |                      |                      |
| Tune/Reschk              | SP6757                                                  |                      |                      |
| Initial Calibration Stds | SP6857,SP6858,SP6859,SP6860,SP6861,SP6862,SP6863,SP6864 |                      |                      |
| CCC                      | SP6860                                                  |                      |                      |
| Internal Standard/PEM    | S13175,10ul/1000ul sample                               |                      |                      |
| ICV/I.BLK                | SP6872                                                  |                      |                      |
| Surrogate Standard       |                                                         |                      |                      |
| MS/MSD Standard          |                                                         |                      |                      |
| LCS Standard             |                                                         |                      |                      |

| Sr# | SampleId    | Data File Name | Date-Time         | Operator | Status |
|-----|-------------|----------------|-------------------|----------|--------|
| 1   | DFTPP       | BF143790.D     | 23 Sep 2025 09:31 | RC/JU    | Ok     |
| 2   | SSTDICC2.5  | BF143791.D     | 23 Sep 2025 10:28 | RC/JU    | Ok     |
| 3   | SSTDICC005  | BF143792.D     | 23 Sep 2025 10:58 | RC/JU    | Ok     |
| 4   | SSTDICC010  | BF143793.D     | 23 Sep 2025 11:57 | RC/JU    | Ok     |
| 5   | SSTDICC020  | BF143794.D     | 23 Sep 2025 12:27 | RC/JU    | Ok,M   |
| 6   | SSTDICCC040 | BF143795.D     | 23 Sep 2025 13:59 | RC/JU    | Ok,M   |
| 7   | SSTDICC050  | BF143796.D     | 23 Sep 2025 14:28 | RC/JU    | Ok,M   |
| 8   | SSTDICC060  | BF143797.D     | 23 Sep 2025 14:58 | RC/JU    | Ok,M   |
| 9   | SSTDICC080  | BF143798.D     | 23 Sep 2025 15:27 | RC/JU    | Ok,M   |
| 10  | SSTDICV040  | BF143799.D     | 23 Sep 2025 17:42 | RC/JU    | Ok,M   |
| 11  | PB169751BL  | BF143800.D     | 23 Sep 2025 18:11 | RC/JU    | Ok     |

M : Manual Integration

Instrument ID: **BNA\_F**

**Daily Analysis Runlog For Sequence/QC Batch ID # BF092525**

|                          |                                                         |                      |                       |
|--------------------------|---------------------------------------------------------|----------------------|-----------------------|
| Review By                | Rahul                                                   | Review On            | 9/26/2025 9:07:30 AM  |
| Supervise By             | Jagrut                                                  | Supervise On         | 9/26/2025 11:08:21 AM |
| SubDirectory             | BF092525                                                | HP Acquire Method    | BNA_F                 |
|                          |                                                         | HP Processing Method | bf092325              |
| <b>STD. NAME</b>         | <b>STD REF.#</b>                                        |                      |                       |
| Tune/Reschk              | SP6757                                                  |                      |                       |
| Initial Calibration Stds | SP6857,SP6858,SP6859,SP6860,SP6861,SP6862,SP6863,SP6864 |                      |                       |
| CCC                      | SP6860                                                  |                      |                       |
| Internal Standard/PEM    | S13175,10ul/1000ul sample                               |                      |                       |
| ICV/I.BLK                | SP6872                                                  |                      |                       |
| Surrogate Standard       |                                                         |                      |                       |
| MS/MSD Standard          |                                                         |                      |                       |
| LCS Standard             |                                                         |                      |                       |

| Sr# | SampleId    | Data File Name | Date-Time         | Operator | Status   |
|-----|-------------|----------------|-------------------|----------|----------|
| 1   | DFTPP       | BF143801.D     | 25 Sep 2025 12:03 | RC/JU    | Ok       |
| 2   | SSTDCCC040  | BF143802.D     | 25 Sep 2025 13:06 | RC/JU    | Ok,M     |
| 3   | PB169827BL  | BF143803.D     | 25 Sep 2025 13:46 | RC/JU    | Ok       |
| 4   | PB169827BS  | BF143804.D     | 25 Sep 2025 14:16 | RC/JU    | Ok,M     |
| 5   | Q3189-01    | BF143805.D     | 25 Sep 2025 15:51 | RC/JU    | Ok,M     |
| 6   | Q3188-02    | BF143806.D     | 25 Sep 2025 16:21 | RC/JU    | Dilution |
| 7   | Q3187-01    | BF143807.D     | 25 Sep 2025 16:51 | RC/JU    | Ok,M     |
| 8   | Q3188-01    | BF143808.D     | 25 Sep 2025 17:21 | RC/JU    | Ok       |
| 9   | Q3188-02DL  | BF143809.D     | 25 Sep 2025 17:51 | RC/JU    | Ok,M     |
| 10  | Q3183-01    | BF143810.D     | 25 Sep 2025 18:21 | RC/JU    | Ok,M     |
| 11  | Q3183-04    | BF143811.D     | 25 Sep 2025 18:51 | RC/JU    | Ok,M     |
| 12  | Q3183-07    | BF143812.D     | 25 Sep 2025 19:21 | RC/JU    | Ok,M     |
| 13  | Q3176-01    | BF143813.D     | 25 Sep 2025 19:51 | RC/JU    | Ok,M     |
| 14  | Q3176-02    | BF143814.D     | 25 Sep 2025 20:21 | RC/JU    | Ok       |
| 15  | Q3176-03    | BF143815.D     | 25 Sep 2025 20:51 | RC/JU    | Ok       |
| 16  | Q3178-01    | BF143816.D     | 25 Sep 2025 21:21 | RC/JU    | Ok       |
| 17  | Q3178-02MS  | BF143817.D     | 25 Sep 2025 21:50 | RC/JU    | Ok       |
| 18  | Q3178-03MSD | BF143818.D     | 25 Sep 2025 22:20 | RC/JU    | Ok       |

M : Manual Integration

Instrument ID: BNA\_F

**Daily Analysis Runlog For Sequence/QC Batch ID # BF092325**

|              |          |                   |                      |                      |          |
|--------------|----------|-------------------|----------------------|----------------------|----------|
| Review By    | Rahul    | Review On         | 9/24/2025 8:53:16 AM |                      |          |
| Supervise By | Jagrut   | Supervise On      | 9/24/2025 9:38:53 AM |                      |          |
| SubDirectory | BF092325 | HP Acquire Method | BNA_F                | HP Processing Method | bf092325 |

| STD. NAME                | STD REF.#                                               |
|--------------------------|---------------------------------------------------------|
| Tune/Reschk              | SP6757                                                  |
| Initial Calibration Stds | SP6857,SP6858,SP6859,SP6860,SP6861,SP6862,SP6863,SP6864 |
| CCC                      | SP6860                                                  |
| Internal Standard/PEM    | S13175,10ul/1000ul sample                               |
| ICV/I.BLK                | SP6872                                                  |
| Surrogate Standard       |                                                         |
| MS/MSD Standard          |                                                         |
| LCS Standard             |                                                         |

| Sr# | SampleID    | ClientID    | Data File Name | Date-Time         | Comment                                        | Operator | Status |
|-----|-------------|-------------|----------------|-------------------|------------------------------------------------|----------|--------|
| 1   | DFTPP       | DFTPP       | BF143790.D     | 23 Sep 2025 09:31 |                                                | RC/JU    | Ok     |
| 2   | SSTDICC2.5  | SSTDICC2.5  | BF143791.D     | 23 Sep 2025 10:28 |                                                | RC/JU    | Ok     |
| 3   | SSTDICC005  | SSTDICC005  | BF143792.D     | 23 Sep 2025 10:58 |                                                | RC/JU    | Ok     |
| 4   | SSTDICC010  | SSTDICC010  | BF143793.D     | 23 Sep 2025 11:57 |                                                | RC/JU    | Ok     |
| 5   | SSTDICC020  | SSTDICC020  | BF143794.D     | 23 Sep 2025 12:27 |                                                | RC/JU    | Ok,M   |
| 6   | SSTDICCC040 | SSTDICCC040 | BF143795.D     | 23 Sep 2025 13:59 | Compound #26,57 kept on LR & #54,65 kept on QR | RC/JU    | Ok,M   |
| 7   | SSTDICC050  | SSTDICC050  | BF143796.D     | 23 Sep 2025 14:28 |                                                | RC/JU    | Ok,M   |
| 8   | SSTDICC060  | SSTDICC060  | BF143797.D     | 23 Sep 2025 14:58 |                                                | RC/JU    | Ok,M   |
| 9   | SSTDICC080  | SSTDICC080  | BF143798.D     | 23 Sep 2025 15:27 |                                                | RC/JU    | Ok,M   |
| 10  | SSTDICV040  | ICVBF092325 | BF143799.D     | 23 Sep 2025 17:42 |                                                | RC/JU    | Ok,M   |
| 11  | PB169751BL  | PB169751BL  | BF143800.D     | 23 Sep 2025 18:11 |                                                | RC/JU    | Ok     |

M : Manual Integration



Instrument ID: BNA\_F

**Daily Analysis Runlog For Sequence/QC Batch ID # BF092525**

|              |          |                      |                       |
|--------------|----------|----------------------|-----------------------|
| Review By    | Rahul    | Review On            | 9/26/2025 9:07:30 AM  |
| Supervise By | Jagrut   | Supervise On         | 9/26/2025 11:08:21 AM |
| SubDirectory | BF092525 | HP Acquire Method    | BNA_F                 |
|              |          | HP Processing Method | bf092325              |

| STD. NAME                | STD REF.#                                               |
|--------------------------|---------------------------------------------------------|
| Tune/Reschk              | SP6757                                                  |
| Initial Calibration Stds | SP6857,SP6858,SP6859,SP6860,SP6861,SP6862,SP6863,SP6864 |
| CCC                      | SP6860                                                  |
| Internal Standard/PEM    | S13175,10ul/1000ul sample                               |
| ICV/I.BLK                | SP6872                                                  |
| Surrogate Standard       |                                                         |
| MS/MSD Standard          |                                                         |
| LCS Standard             |                                                         |

| Sr# | SampleID   | ClientID      | Data File Name | Date-Time         | Comment                                    | Operator | Status   |
|-----|------------|---------------|----------------|-------------------|--------------------------------------------|----------|----------|
| 1   | DFTPP      | DFTPP         | BF143801.D     | 25 Sep 2025 12:03 |                                            | RC/JU    | Ok       |
| 2   | SSTDCCC040 | SSTDCCC040    | BF143802.D     | 25 Sep 2025 13:06 |                                            | RC/JU    | Ok,M     |
| 3   | PB169827BL | PB169827BL    | BF143803.D     | 25 Sep 2025 13:46 | Double internal standard added.            | RC/JU    | Ok       |
| 4   | PB169827BS | PB169827BS    | BF143804.D     | 25 Sep 2025 14:16 |                                            | RC/JU    | Ok,M     |
| 5   | Q3189-01   | 72-11989      | BF143805.D     | 25 Sep 2025 15:51 |                                            | RC/JU    | Ok,M     |
| 6   | Q3188-02   | RB22120       | BF143806.D     | 25 Sep 2025 16:21 | Need 10X dilution                          | RC/JU    | Dilution |
| 7   | Q3187-01   | 228           | BF143807.D     | 25 Sep 2025 16:51 |                                            | RC/JU    | Ok,M     |
| 8   | Q3188-01   | 4135          | BF143808.D     | 25 Sep 2025 17:21 |                                            | RC/JU    | Ok       |
| 9   | Q3188-02DL | RB22120DL     | BF143809.D     | 25 Sep 2025 17:51 |                                            | RC/JU    | Ok,M     |
| 10  | Q3183-01   | WC-1          | BF143810.D     | 25 Sep 2025 18:21 |                                            | RC/JU    | Ok,M     |
| 11  | Q3183-04   | WC-4          | BF143811.D     | 25 Sep 2025 18:51 |                                            | RC/JU    | Ok,M     |
| 12  | Q3183-07   | WC-3          | BF143812.D     | 25 Sep 2025 19:21 |                                            | RC/JU    | Ok,M     |
| 13  | Q3176-01   | EME-TS12-01   | BF143813.D     | 25 Sep 2025 19:51 |                                            | RC/JU    | Ok,M     |
| 14  | Q3176-02   | EME-TS13-01   | BF143814.D     | 25 Sep 2025 20:21 |                                            | RC/JU    | Ok       |
| 15  | Q3176-03   | EME-TS14-02   | BF143815.D     | 25 Sep 2025 20:51 |                                            | RC/JU    | Ok       |
| 16  | Q3178-01   | EME-TS14-01   | BF143816.D     | 25 Sep 2025 21:21 | Double Internal Standard Added by Mistake. | RC/JU    | Ok       |
| 17  | Q3178-02MS | EME-TS14-01MS | BF143817.D     | 25 Sep 2025 21:50 |                                            | RC/JU    | Ok       |

Instrument ID: BNA\_F

**Daily Analysis Runlog For Sequence/QC Batch ID # BF092525**

|              |          |                   |                       |                      |          |
|--------------|----------|-------------------|-----------------------|----------------------|----------|
| Review By    | Rahul    | Review On         | 9/26/2025 9:07:30 AM  |                      |          |
| Supervise By | Jagrut   | Supervise On      | 9/26/2025 11:08:21 AM |                      |          |
| SubDirectory | BF092525 | HP Acquire Method | BNA_F                 | HP Processing Method | bf092325 |

| STD. NAME                | STD REF.#                                               |
|--------------------------|---------------------------------------------------------|
| Tune/Reschk              | SP6757                                                  |
| Initial Calibration Stds | SP6857,SP6858,SP6859,SP6860,SP6861,SP6862,SP6863,SP6864 |
| CCC                      | SP6860                                                  |
| Internal Standard/PEM    | S13175,10ul/1000ul sample                               |
| ICV/I.BLK                | SP6872                                                  |
| Surrogate Standard       |                                                         |
| MS/MSD Standard          |                                                         |
| LCS Standard             |                                                         |

|    |             |                |            |                   |  |       |    |
|----|-------------|----------------|------------|-------------------|--|-------|----|
| 18 | Q3178-03MSD | EME-TS14-01MSD | BF143818.D | 25 Sep 2025 22:20 |  | RC/JU | Ok |
|----|-------------|----------------|------------|-------------------|--|-------|----|

M : Manual Integration



PERCENT SOLID

Supervisor: Iwona  
Analyst: JIGNESH  
Date: 9/25/2025

OVENTEMP IN Celsius(°C): 107  
Time IN: 17:25  
In Date: 09/24/2025  
Weight Check 1.0g: 1.00  
Weight Check 10g: 10.00  
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104  
Time OUT: 08:37  
Out Date: 09/25/2025  
Weight Check 1.0g: 1.00  
Weight Check 10g: 10.00  
BalanceID: M SC-4  
Thermometer ID: % SOLID-OVEN

QC:LB137296

| Lab ID   | Client SampleID | Dish # | Dish Wt(g) (A) | Sample Wt(g) | Dish + Sample Wt(g) (B) | Dish+Dry Sample Wt(g) (C) | % Solid | Comments   |
|----------|-----------------|--------|----------------|--------------|-------------------------|---------------------------|---------|------------|
| Q3170-01 | MOD-25-0271     | 1      | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | oil sample |
| Q3170-02 | MOD-25-0271     | 2      | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | oil sample |
| Q3176-01 | EME-TS12-01     | 3      | 1.15           | 10.61        | 11.76                   | 8.16                      | 66.1    |            |
| Q3176-02 | EME-TS13-01     | 4      | 1.18           | 10.37        | 11.55                   | 8.27                      | 68.4    |            |
| Q3176-03 | EME-TS14-02     | 5      | 1.13           | 10.35        | 11.48                   | 8.37                      | 70.0    |            |
| Q3178-01 | EME-TS14-01     | 6      | 1.13           | 10.74        | 11.87                   | 8.8                       | 71.4    |            |
| Q3178-02 | EME-TS14-01MS   | 7      | 1.13           | 10.74        | 11.87                   | 8.8                       | 71.4    |            |
| Q3178-03 | EME-TS14-01MSD  | 8      | 1.13           | 10.74        | 11.87                   | 8.8                       | 71.4    |            |
| Q3183-01 | WC-1            | 9      | 1.18           | 10.41        | 11.59                   | 10.09                     | 85.6    |            |
| Q3183-02 | WC-1-EPH        | 10     | 1.19           | 10.43        | 11.62                   | 10.19                     | 86.3    |            |
| Q3183-03 | WC-1-VOC        | 11     | 1.13           | 10.60        | 11.73                   | 10.55                     | 88.9    |            |
| Q3183-04 | WC-4            | 12     | 1.19           | 10.56        | 11.75                   | 10.6                      | 89.1    |            |
| Q3183-05 | WC-4-EPH        | 13     | 1.19           | 10.49        | 11.68                   | 9.77                      | 81.8    |            |
| Q3183-06 | WC-4-VOC        | 14     | 1.18           | 10.63        | 11.81                   | 10.42                     | 86.9    |            |
| Q3183-07 | WC-3            | 15     | 1.13           | 10.42        | 11.55                   | 9.8                       | 83.2    |            |
| Q3183-08 | WC-3-EPH        | 16     | 1.13           | 10.49        | 11.62                   | 9.79                      | 82.6    |            |
| Q3183-09 | WC-3-VOC        | 17     | 1.19           | 10.55        | 11.74                   | 10.96                     | 92.6    |            |
| Q3185-01 | Y2404-0048-1-1  | 18     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | PILC       |
| Q3185-02 | Y2404-0048-1-2  | 19     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | PILC       |
| Q3185-03 | KMH392P-1-1     | 20     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | PILC       |
| Q3185-04 | KMH392P-1-2     | 21     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | PILC       |
| Q3185-05 | EFB430R-1-1     | 22     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | PILC       |
| Q3185-06 | EFB430R-1-2     | 23     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | PILC       |
| Q3185-07 | 4125-A          | 24     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | PILC       |
| Q3185-08 | 4125-B          | 25     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | PILC       |
| Q3185-09 | 4125-C          | 26     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | PILC       |
| Q3185-10 | 4125-D          | 27     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | PILC       |
| Q3185-11 | 4125-E          | 28     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | PILC       |



# PERCENT SOLID

Supervisor: Iwona  
Analyst: JIGNESH  
Date: 9/25/2025

OVENTEMP IN Celsius(°C): 107  
Time IN: 17:25  
In Date: 09/24/2025  
Weight Check 1.0g: 1.00  
Weight Check 10g: 10.00  
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104  
Time OUT: 08:37  
Out Date: 09/25/2025  
Weight Check 1.0g: 1.00  
Weight Check 10g: 10.00  
BalanceID: M SC-4  
Thermometer ID: % SOLID-OVEN

QC:LB137296

| Lab ID   | Client SampleID | Dish # | Dish Wt(g) (A) | Sample Wt(g) | Dish + Sample Wt(g) (B) | Dish+Dry Sample Wt(g) (C) | % Solid | Comments   |
|----------|-----------------|--------|----------------|--------------|-------------------------|---------------------------|---------|------------|
| Q3185-12 | 4126-A          | 29     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | PILC       |
| Q3185-13 | 4126-B          | 30     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | PILC       |
| Q3185-14 | 4126-C          | 31     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | PILC       |
| Q3185-15 | 4126-D          | 32     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | PILC       |
| Q3185-16 | 4126-E          | 33     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | PILC       |
| Q3186-01 | Y2404-0043-1-1  | 34     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | PILC       |
| Q3186-02 | Y2404-0043-1-2  | 35     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | PILC       |
| Q3186-03 | KMA695Y-1-1     | 36     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | PILC       |
| Q3186-04 | KMA695Y-1-2     | 37     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | PILC       |
| Q3187-01 | 228             | 38     | 1.19           | 10.67        | 11.86                   | 10.96                     | 91.6    |            |
| Q3187-02 | 228-E2          | 39     | 1.14           | 10.49        | 11.63                   | 10.32                     | 87.5    |            |
| Q3188-01 | 4135            | 40     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | debris     |
| Q3188-02 | RB22120         | 41     | 1.18           | 10.32        | 11.5                    | 10.88                     | 94.0    |            |
| Q3188-03 | RB22120         | 42     | 1.16           | 10.60        | 11.76                   | 10.92                     | 92.1    |            |
| Q3189-01 | 72-11989        | 43     | 1.15           | 10.84        | 11.99                   | 11.33                     | 93.9    |            |
| Q3189-02 | 72-11989-E2     | 44     | 1.11           | 10.67        | 11.78                   | 11.44                     | 96.8    |            |
| Q3191-01 | 459             | 45     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | oil sample |
| Q3192-01 | RB104           | 46     | 1.15           | 10.91        | 12.06                   | 11.49                     | 94.8    |            |
| Q3192-02 | RB105           | 47     | 1.13           | 10.80        | 11.93                   | 11.26                     | 93.8    |            |

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

# WORKLIST(Hardcopy Internal Chain)

137296

WorkList Name : %1-092425

WorkList ID : 192050

Department : Wet-Chemistry

Date : 09-24-2025 13:11:45

| Sample   | Customer Sample | Matrix | Test           | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method       |
|----------|-----------------|--------|----------------|--------------|----------|-----------------------------|--------------|--------------|
| Q3170-01 | MOD-25-0271     | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | J11                         | 09/23/2025   | Chemtech -SO |
| Q3170-02 | MOD-25-0271     | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | J11                         | 09/23/2025   | Chemtech -SO |
| Q3176-01 | EME-TS12-01     | Solid  | Percent Solids | Cool 4 deg C | ROYF02   | J43                         | 09/23/2025   | Chemtech -SO |
| Q3176-02 | EME-TS13-01     | Solid  | Percent Solids | Cool 4 deg C | ROYF02   | J43                         | 09/23/2025   | Chemtech -SO |
| Q3176-03 | EME-TS14-02     | Solid  | Percent Solids | Cool 4 deg C | ROYF02   | J43                         | 09/23/2025   | Chemtech -SO |
| Q3178-01 | EME-TS14-01     | Solid  | Percent Solids | Cool 4 deg C | ROYF02   | J33                         | 09/23/2025   | Chemtech -SO |
| Q3178-02 | EME-TS14-01MS   | Solid  | Percent Solids | Cool 4 deg C | ROYF02   | J33                         | 09/23/2025   | Chemtech -SO |
| Q3178-03 | EME-TS14-01MSD  | Solid  | Percent Solids | Cool 4 deg C | ROYF02   | J33                         | 09/23/2025   | Chemtech -SO |
| Q3183-01 | WC-1            | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | J32                         | 09/24/2025   | Chemtech -SO |
| Q3183-02 | WC-1-EPH        | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | J32                         | 09/24/2025   | Chemtech -SO |
| Q3183-03 | WC-1-VOC        | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | J32                         | 09/24/2025   | Chemtech -SO |
| Q3183-04 | WC-4            | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | J32                         | 09/24/2025   | Chemtech -SO |
| Q3183-05 | WC-4-EPH        | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | J32                         | 09/24/2025   | Chemtech -SO |
| Q3183-06 | WC-4-VOC        | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | J32                         | 09/24/2025   | Chemtech -SO |
| Q3183-07 | WC-3            | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | J32                         | 09/24/2025   | Chemtech -SO |
| Q3183-08 | WC-3-EPH        | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | J32                         | 09/24/2025   | Chemtech -SO |
| Q3183-09 | WC-3-VOC        | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | J32                         | 09/24/2025   | Chemtech -SO |
| Q3185-01 | Y2404-0048-1-1  | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | J41                         | 09/24/2025   | Chemtech -SO |
| Q3185-02 | Y2404-0048-1-2  | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | J41                         | 09/24/2025   | Chemtech -SO |
| Q3185-03 | KMH392P-1-1     | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | J41                         | 09/24/2025   | Chemtech -SO |
| Q3185-04 | KMH392P-1-2     | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | J41                         | 09/24/2025   | Chemtech -SO |

Date/Time 09/24/25 15:25  
 Raw Sample Received by: SP awg  
 Raw Sample Relinquished by: ch

Date/Time 09/24/25 17:13  
 Raw Sample Received by: SP awg  
 Raw Sample Relinquished by: SP awg

# WORKLIST(Hardcopy Internal Chain)

VP137296

WorkList Name : %1-092425      WorkList ID : 192050      Department : Wet-Chemistry      Date : 09-24-2025 13:11:45

| Sample   | Customer Sample | Matrix | Test           | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method       |
|----------|-----------------|--------|----------------|--------------|----------|-----------------------------|--------------|--------------|
| Q3185-05 | EFB430R-1-1     | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | J41                         | 09/24/2025   | Chemtech -SO |
| Q3185-06 | EFB430R-1-2     | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | J41                         | 09/24/2025   | Chemtech -SO |
| Q3185-07 | 4125-A          | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | J41                         | 09/24/2025   | Chemtech -SO |
| Q3185-08 | 4125-B          | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | J41                         | 09/24/2025   | Chemtech -SO |
| Q3185-09 | 4125-C          | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | J41                         | 09/24/2025   | Chemtech -SO |
| Q3185-10 | 4125-D          | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | J41                         | 09/24/2025   | Chemtech -SO |
| Q3185-11 | 4125-E          | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | J41                         | 09/24/2025   | Chemtech -SO |
| Q3185-12 | 4126-A          | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | J41                         | 09/24/2025   | Chemtech -SO |
| Q3185-13 | 4126-B          | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | J41                         | 09/24/2025   | Chemtech -SO |
| Q3185-14 | 4126-C          | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | J41                         | 09/24/2025   | Chemtech -SO |
| Q3185-15 | 4126-D          | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | J41                         | 09/24/2025   | Chemtech -SO |
| Q3185-16 | 4126-E          | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | J41                         | 09/24/2025   | Chemtech -SO |
| Q3186-01 | Y2404-0043-1-1  | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | J42                         | 09/24/2025   | Chemtech -SO |
| Q3186-02 | Y2404-0043-1-2  | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | J42                         | 09/24/2025   | Chemtech -SO |
| Q3186-03 | KMA695Y-1-1     | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | J42                         | 09/24/2025   | Chemtech -SO |
| Q3186-04 | KMA695Y-1-2     | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | J42                         | 09/24/2025   | Chemtech -SO |
| Q3187-01 | 228             | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | J11                         | 09/24/2025   | Chemtech -SO |
| Q3187-02 | 228-E2          | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | J11                         | 09/24/2025   | Chemtech -SO |
| Q3188-01 | 4135            | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | J12                         | 09/24/2025   | Chemtech -SO |
| Q3188-02 | RB22120         | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | J12                         | 09/24/2025   | Chemtech -SO |
| Q3188-03 | RB22120         | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | J12                         | 09/24/2025   | Chemtech -SO |

Date/Time 09/24/25 15:25  
 Raw Sample Received by: SPWY  
 Raw Sample Relinquished by: CFS

Date/Time 09/24/25 17:35  
 Raw Sample Received by: CFS  
 Raw Sample Relinquished by: JAC

# WORKLIST(Hardcopy Internal Chain)

✓ 137296

WorkList Name : %1-092425

WorkList ID : 192050

Department : Wet-Chemistry

Date : 09-24-2025 13:11:45

| Sample   | Customer Sample | Matrix | Test           | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method       |
|----------|-----------------|--------|----------------|--------------|----------|-----------------------------|--------------|--------------|
| Q3189-01 | 72-11989        | Solid  | Percent Solids | Cool 4 deg C | PSEG03   |                             | 09/24/2025   | Chemtech -SO |
| Q3189-02 | 72-11989-E2     | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | I63                         | 09/24/2025   | Chemtech -SO |
| Q3191-01 | 459             | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | J41                         | 09/25/2025   | Chemtech -SO |
| Q3192-01 | RB104           | Solid  | Percent Solids | Cool 4 deg C | GENV01   | J13                         | 09/24/2025   | Chemtech -SO |
| Q3192-02 | RB105           | Solid  | Percent Solids | Cool 4 deg C | GENV01   | J13                         | 09/24/2025   | Chemtech -SO |

Date/Time 09/24/25 15:23  
 Raw Sample Received by: SB WVC  
 Raw Sample Relinquished by: CR sm

Date/Time 09/24/25 17:35  
 Raw Sample Received by: CR sm  
 Raw Sample Relinquished by: SB WVC

SOP ID: M3541-ASE Extraction-15

Clean Up SOP #: N/A

Matrix: Solid

Weight By: EH

Balance check: EH

Balance ID: EX-SC-2

pH Strip Lot#: N/A

Extraction By: RJ

Filter By: RJ

pH Meter ID: N/A

Hood ID: 3,7

Extraction Start Date: 09/25/2025

Extraction Start Time: 09:25

Extraction End Date: 09/25/2025

Extraction End Time: 12:40

Concentration By: EH

Supervisor By: ritesh

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    | 50/100 PPM          | SP6865              |
| Surrogate     | 1.0ML    | 100/150 PPM         | SP6869              |
| N/A           | N/A      | N/A                 | N/A                 |
| N/A           | 1.0ML    | N/A                 | N/A                 |
| N/A           | N/A      | N/A                 | N/A                 |

| Chemical Used      | ML/SAMPLE USED | Lot Number |
|--------------------|----------------|------------|
| MeCl2/Acetone/1:1  | N/A            | EP2641     |
| Baked Na2SO4       | N/A            | EP2639     |
| Methylene Chloride | N/A            | E3973      |
| Sand               | N/A            | E3951      |
| N/A                | N/A            | N/A        |
| N/A                | N/A            | N/A        |
| N/A                | N/A            | N/A        |
| N/A                | N/A            | N/A        |
| N/A                | N/A            | N/A        |
| N/A                | N/A            | N/A        |
| N/A                | N/A            | N/A        |
| N/A                | N/A            | N/A        |
| N/A                | N/A            | N/A        |
| N/A                | N/A            | N/A        |
| N/A                | N/A            | N/A        |

Extraction Conformance/Non-Conformance Comments:

1.5ML Vial Lot # 2210443. Q3188-01 used Limited volume as sample is Oily Debris.

KD Bath ID: N/A

KD Bath Temperature: N/A

Envap ID: NEVAP-02

Envap Temperature: 40 °C

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|-------------|-----------------------------------------|----------------------|
| 9/25/25     | RJ C Ekt - (Lab)                        | Rcb vob              |
| 12:45       | Preparation Group                       | Analysis Group       |



Analytical Method: M3541-ASE Extraction-15

Concentration Date: 09/25/2025

| Sample ID  | Client Sample ID | Test                | g mL  | PH  | Surr/Spike By: |            | Final Vol.<br>(mL) | JarID | Comments                  | Prep<br>Pos |
|------------|------------------|---------------------|-------|-----|----------------|------------|--------------------|-------|---------------------------|-------------|
|            |                  |                     |       |     | AddedBy        | VerifiedBy |                    |       |                           |             |
| PB169827BL | SBLK827          | SVOC-TCL BNA<br>-20 | 30.01 | N/A | ritesh         | Evelyn     | 1                  |       |                           | U1-1        |
| PB169827BS | SLCS827          | SVOC-TCL BNA<br>-20 | 30.02 | N/A | ritesh         | Evelyn     | 1                  |       |                           | 2           |
| Q3176-01   | EME-TS12-01      | SVOC-TCL BNA<br>-20 | 30.03 | N/A | ritesh         | Evelyn     | 1                  | F     |                           | 3           |
| Q3176-02   | EME-TS13-01      | SVOC-TCL BNA<br>-20 | 30.06 | N/A | ritesh         | Evelyn     | 1                  | F     |                           | 4           |
| Q3176-03   | EME-TS14-02      | SVOC-TCL BNA<br>-20 | 30.04 | N/A | ritesh         | Evelyn     | 1                  | F     |                           | 5           |
| Q3178-01   | EME-TS14-01      | SVOC-TCL BNA<br>-20 | 30.07 | N/A | ritesh         | Evelyn     | 1                  | F     |                           | 6           |
| Q3178-02   | EME-TS14-01MS    | SVOC-TCL BNA<br>-20 | 30.02 | N/A | ritesh         | Evelyn     | 1                  | F     |                           | U2-1        |
| Q3178-03   | EME-TS14-01MSD   | SVOC-TCL BNA<br>-20 | 30.05 | N/A | ritesh         | Evelyn     | 1                  | F     |                           | 2           |
| Q3183-01   | WC-1             | SVOC-TCL BNA<br>-20 | 50.08 | N/A | ritesh         | Evelyn     | 1                  | E     |                           | 3           |
| Q3183-04   | WC-4             | SVOC-TCL BNA<br>-20 | 50.02 | N/A | ritesh         | Evelyn     | 1                  | E     |                           | 4           |
| Q3183-07   | WC-3             | SVOC-TCL BNA<br>-20 | 50.09 | N/A | ritesh         | Evelyn     | 1                  | E     |                           | 5           |
| Q3187-01   | 228              | SVOC-TCL BNA<br>-20 | 50.05 | N/A | ritesh         | Evelyn     | 1                  | E     | Small Particles +<br>Soil | 6           |
| Q3188-01   | 4135             | SVOC-TCL BNA<br>-20 | 5.03  | N/A | ritesh         | Evelyn     | 1                  | E     | Oily Debris               | U3-1        |
| Q3188-02   | RB22120          | SVOC-TCL BNA<br>-20 | 50.07 | N/A | ritesh         | Evelyn     | 1                  | E     |                           | 2           |
| Q3189-01   | 72-11989         | SVOC-TCL BNA<br>-20 | 50.04 | N/A | ritesh         | Evelyn     | 1                  | E     |                           | 3           |

RJ  
9/25

1698274  
9/25

# WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q3176      WorkList ID : 192070      Department : Extraction      Date : 09-25-2025 09:03:29

| Sample   | Customer Sample | Matrix | Test             | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|----------|-----------------|--------|------------------|--------------|----------|-----------------------------|--------------|--------|
| Q3176-01 | EME-TS12-01     | Solid  | SVOC-TCL BNA -20 | Cool 4 deg C | ROYF02   | J43                         | 09/23/2025   | 8270E  |
| Q3176-02 | EME-TS13-01     | Solid  | SVOC-TCL BNA -20 | Cool 4 deg C | ROYF02   | J43                         | 09/23/2025   | 8270E  |
| Q3176-03 | EME-TS14-02     | Solid  | SVOC-TCL BNA -20 | Cool 4 deg C | ROYF02   | J43                         | 09/23/2025   | 8270E  |
| Q3178-01 | EME-TS14-01     | Solid  | SVOC-TCL BNA -20 | Cool 4 deg C | ROYF02   | J33                         | 09/23/2025   | 8270E  |
| Q3178-02 | EME-TS14-01MS   | Solid  | SVOC-TCL BNA -20 | Cool 4 deg C | ROYF02   | J33                         | 09/23/2025   | 8270E  |
| Q3178-03 | EME-TS14-01MSD  | Solid  | SVOC-TCL BNA -20 | Cool 4 deg C | ROYF02   | J33                         | 09/23/2025   | 8270E  |
| Q3183-01 | WC-1            | Solid  | SVOC-TCL BNA -20 | Cool 4 deg C | PSEG03   | J32                         | 09/24/2025   | 8270E  |
| Q3183-04 | WC-4            | Solid  | SVOC-TCL BNA -20 | Cool 4 deg C | PSEG03   | J32                         | 09/24/2025   | 8270E  |
| Q3183-07 | WC-3            | Solid  | SVOC-TCL BNA -20 | Cool 4 deg C | PSEG03   | J32                         | 09/24/2025   | 8270E  |
| Q3187-01 | 228             | Solid  | SVOC-TCL BNA -20 | Cool 4 deg C | PSEG03   | J11                         | 09/24/2025   | 8270E  |
| Q3188-01 | 4135            | Solid  | SVOC-TCL BNA -20 | Cool 4 deg C | PSEG03   | J12                         | 09/24/2025   | 8270E  |
| Q3188-02 | RB22120         | Solid  | SVOC-TCL BNA -20 | Cool 4 deg C | PSEG03   | J12                         | 09/24/2025   | 8270E  |
| Q3189-01 | 72-11989        | Solid  | SVOC-TCL BNA -20 | Cool 4 deg C | PSEG03   |                             | 09/24/2025   | 8270E  |

Date/Time 9/25/25 9:20  
Raw Sample Received by: RS CETA-1ab  
Raw Sample Relinquished by: CP

Date/Time 9/25/25 9:40  
Raw Sample Received by: CP  
Raw Sample Relinquished by: RS CETA-1ab

## Prep Standard - Chemical Standard Summary

**Order ID :** Q3178  
**Test :** SVOC-TCL BNA -20  
  
**Prepbatch ID :** PB169827,  
**Sequence ID/Qc Batch ID:** BF092525,

**Standard ID :**  
EP2639,EP2641,SP6757,SP6856,SP6857,SP6858,SP6859,SP6860,SP6861,SP6862,SP6863,SP6864,SP6865,SP6866,SP6871,SP6872,

**Chemical ID :**  
10ul/1000ul  
sample,E3875,E3904,E3932,E3951,E3954,E3965,E3972,E3973,S 11073,S11484,S11652,S11807,S11808,S12197,S12199,S12200,S12201,S12220,S12221,S12245,S12306,S12307,S12507,S12508,S12552,S12553,S12554,S12555,S12556,S12557,S12558,S12559,S12560,S12577,S12739,S12776,S12903,S12904,S12905,S13089,S13090,S13091,S13092,S13093,S13094,S13095,S13096,S13097,S13118,S13119,S13120,S13149,S13160,S13170,S13175,S13207,S13214,S13233,S13239,S13240,S13241,S13242,S13243,S13244,S13269,

## Extractions STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>          | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u>      | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|----------------------|------------------------|------------------|------------------------|--------------------|---------------------|------------------|----------------------|
| 3923             | Baked Sodium Sulfate | <a href="#">EP2639</a> | 09/12/2025       | 01/28/2026             | Riteshkumar Patel  | Extraction_SC ALE_2 | None             | Evelyn Huang         |

(EX-SC-2)

**FROM** 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> |
|------------------|--------------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 2017             | 1:1 ACETONE/METHYLENE CHLORIDE | <a href="#">EP2641</a> | 09/16/2025       | 03/16/2026             | Evelyn Huang       | None           | None             | Riteshkumar Patel    |

09/16/2025

**FROM** 8000.00000ml of E3972 + 8000.00000ml of E3973 = Final Quantity: 16000.000 ml

## SVOC STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>          | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|----------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3895             | 50 ug/ml DFTPP 8270E | <a href="#">SP6757</a> | 03/31/2025       | 09/30/2025             | Rahul Chavli       | None           | None             | Jagrut Upadhyay      |
|                  |                      |                        |                  |                        |                    |                |                  | 04/01/2025           |

**FROM** 1.00000ml of S12577 + 19.00000ml of E3904 = Final Quantity: 20.000 ml

| <u>Recipe ID</u> | <u>NAME</u>                                | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|--------------------------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 4215             | New 8270E/625.1 ICAL Stock Solution 100 ng | <a href="#">SP6856</a> | 08/12/2025       | 12/16/2025             | Jagrut Upadhyay    | None           | None             | mohammad ahmed       |
|                  |                                            |                        |                  |                        |                    |                |                  | 08/22/2025           |

**FROM** 0.04000ml of S13207 + 0.20000ml of S12197 + 0.30000ml of S12306 + 0.40000ml of S12220 + 0.50000ml of S11807 + 0.50000ml of S12245 + 0.50000ml of S12776 + 0.50000ml of S13214 + 0.50000ml of S13233 + 0.70000ml of S12307 + 1.00000ml of S12739 + 4.86000ml of E3954 = Final Quantity: 10.000 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> |
|------------------|-------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 4216             | 80ng ICC    | <a href="#">SP6857</a> | 08/12/2025       | 12/16/2025             | Jagrut Upadhyay    | None           | None             | mohammad ahmed       |
| 08/22/2025       |             |                        |                  |                        |                    |                |                  |                      |

**FROM** 0.01000ml of S13170 + 0.20000ml of E3954 + 0.80000ml of SP6856 = 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> |
|------------------|-------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 4217             | 60ng ICC    | <a href="#">SP6858</a> | 08/12/2025       | 12/16/2025             | Jagrut Upadhyay    | None           | None             | mohammad ahmed       |
| 08/22/2025       |             |                        |                  |                        |                    |                |                  |                      |

**FROM** 0.01000ml of S13170 + 0.40000ml of E3954 + 0.60000ml of SP6856 = 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> |
|------------------|-------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 4218             | 50ng ICC    | <a href="#">SP6859</a> | 08/12/2025       | 12/16/2025             | Jagrut Upadhyay    | None           | None             | mohammad ahmed       |
|                  |             |                        |                  |                        |                    |                |                  | 08/22/2025           |

**FROM** 0.01000ml of S13170 + 0.50000ml of E3954 + 0.50000ml of SP6856 = 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> |
|------------------|-------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 4219             | 40ng ICC    | <a href="#">SP6860</a> | 08/12/2025       | 12/16/2025             | Jagrut Upadhyay    | None           | None             | mohammad ahmed       |
|                  |             |                        |                  |                        |                    |                |                  | 08/22/2025           |

**FROM** 0.01000ml of S13170 + 0.60000ml of E3954 + 0.40000ml of SP6856 = 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> |
|------------------|-------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 4220             | 20ng ICC    | <a href="#">SP6861</a> | 08/12/2025       | 12/16/2025             | Jagrut Upadhyay    | None           | None             | mohammad ahmed       |
|                  |             |                        |                  |                        |                    |                |                  | 08/22/2025           |

**FROM** 0.01000ml of S13170 + 0.80000ml of E3954 + 0.20000ml of SP6856 = 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> |
|------------------|-------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 4221             | 10ng ICC    | <a href="#">SP6862</a> | 08/12/2025       | 12/16/2025             | Jagrut Upadhyay    | None           | None             | mohammad ahmed       |
|                  |             |                        |                  |                        |                    |                |                  | 08/22/2025           |

**FROM** 0.01000ml of S13170 + 0.75000ml of E3954 + 0.25000ml of SP6860 = 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> |
|------------------|-------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 4222             | 5ng ICC     | <a href="#">SP6863</a> | 08/12/2025       | 12/16/2025             | Jagrut Upadhyay    | None           | None             | mohammad ahmed       |
|                  |             |                        |                  |                        |                    |                |                  | 08/22/2025           |

**FROM** 0.01000ml of S13170 + 0.87500ml of E3954 + 0.12500ml of SP6860 = 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> |
|------------------|-------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 4223             | 2.5ng ICC   | <a href="#">SP6864</a> | 08/12/2025       | 12/16/2025             | Jagrut Upadhyay    | None           | None             | mohammad ahmed       |
|                  |             |                        |                  |                        |                    |                |                  | 08/22/2025           |

**FROM** 0.01000ml of S13170 + 0.50000ml of E3954 + 0.50000ml of SP6863 = 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> |
|------------------|-------------------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 171              | 8270/625 Spike Solution, 50/100 PPM | <a href="#">SP6865</a> | 08/25/2025       | 10/30/2025             | Jagrut Upadhyay    | None           | None             | Rahul Chavli         |
|                  |                                     |                        |                  |                        |                    |                |                  | 08/26/2025           |

**FROM** 0.40000ml of S11484 + 0.40000ml of S11652 + 0.40000ml of S12552 + 0.40000ml of S13149 + 0.40000ml of S13160 + 0.40000ml of S13207 + 0.90000ml of S12507 + 0.90000ml of S13089 + 1.10000ml of S13120 + 1.20000ml of S12553 + 1.20000ml of S12554 + 1.20000ml of S12555 + 1.20000ml of S12556 + 1.20000ml of S12557 + 1.20000ml of S12558 + 1.20000ml of S12559 + 1.20000ml of S13269 + 1.30000ml of S11808 + 1.30000ml of S12508 + 1.30000ml of S13090 + 1.30000ml of S13091 + 1.30000ml of S13092 + 1.30000ml of S13093 + 1.30000ml of S13094 + 1.30000ml of S13095 + 1.30000ml of S13096 + 1.30000ml of S13118 + 1.30000ml of S13119 + 1.30000ml of S13239 + 1.30000ml of S13240 + 1.30000ml of S13241 + 1.30000ml of S13242 + 1.30000ml of S13243 + 1.30000ml of S13244 + 163.00000ml of E3932 = Final Quantity: 200.000 ml

| <u>Recipe ID</u> | <u>NAME</u>                                          | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|------------------------------------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 19               | 8270/CLP Surrogate Solution, 100 PPM BN/150 PPM ACID | <a href="#">SP6869</a> | 09/10/2025       | 01/02/2026             | Jagrut Upadhyay    | None           | None             | Rahul Chavli         |
|                  |                                                      |                        |                  |                        |                    |                |                  | 09/16/2025           |

**FROM** 3.00000ml of S12197 + 3.00000ml of S12220 + 5.60000ml of S12221 + 5.60000ml of S12903 + 5.80000ml of S12904 + 6.00000ml of S12199 + 6.00000ml of S12200 + 965.00000ml of E3965 = 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> |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 18               | Second Source Calibration Stock Standard, 100 PPM,                                                                                                                                | <a href="#">SP6871</a> | 09/22/2025       | 11/16/2025             | Jagrut Upadhyay    | None           | None             | Yogesh Patel         |
| (8270/625/CLP)   |                                                                                                                                                                                   |                        |                  |                        |                    |                |                  |                      |
| <u>FROM</u>      | 0.04000ml of S12201 + 0.08000ml of S12905 + 0.10000ml of S11073 + 0.20000ml of S12560 + 0.20000ml of S13097 + 0.20000ml of S13244 + 1.18000ml of E3973 = Final Quantity: 2.000 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>       |
|------------------|-------------------------------------------------------------------------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------------|
| 416              | 40 ng BNA ICV, 40 PPM                                                                     | <a href="#">SP6872</a> | 09/22/2025       | 11/16/2025             | Jagrut Upadhyay    | None           | None             | Yogesh Patel<br>09/27/2025 |
| <u>FROM</u>      | 0.01000ml of S13175 + 0.60000ml of E3973 + 0.40000ml of SP6871 = Final Quantity: 1.010 ml |                        |                  |                        |                    |                |                  |                            |

## CHEMICAL RECEIPT LOG BOOK

| Supplier                    | ItemCode / ItemName                                    | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-----------------------------|--------------------------------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| PCI Scientific Supply, Inc. | PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1 | 417203 | 01/28/2026      | 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) | 24K1762005 | 01/07/2026      | 03/13/2025 /            | 12/27/2024 / RUPESH         | E3904          |

| Supplier         | ItemCode / ItemName                        | Lot #      | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------|--------------------------------------------|------------|-----------------|-------------------------|-----------------------------|----------------|
| Seidler Chemical | BA-9254-03 / Acetone, Ultra Resi (cs/4x4L) | 24H1462005 | 11/05/2025      | 05/05/2025 / RUPESH     | 04/23/2025 / RUPESH         | E3932          |

| Supplier         | ItemCode / ItemName                      | Lot #      | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------|------------------------------------------|------------|-----------------|-------------------------|-----------------------------|----------------|
| Seidler Chemical | BA-3382-05 / Sand, Purified (cs/4x2.5kg) | 25A2756718 | 12/31/2028      | 07/09/2025 / RUPESH     | 04/28/2020 / RUPESH         | E3951          |

| 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) | 25B1862001 | 03/19/2026      | 07/14/2025 / RUPESH     | 06/11/2025 / RUPESH         | E3954          |

| 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      | 08/22/2025 / RUPESH     | 08/20/2025 / RUPESH         | E3965          |

## CHEMICAL RECEIPT LOG BOOK

| Supplier         | ItemCode / ItemName                        | Lot #      | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------|--------------------------------------------|------------|-----------------|-------------------------|-----------------------------|----------------|
| Seidler Chemical | BA-9254-03 / Acetone, Ultra Resi (cs/4x4L) | 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 # |
|----------|---------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride | A0187043 | 11/16/2025      | 05/16/2025 / Jagrut     | 02/06/2023 / Christian      | S11073         |

| Supplier | ItemCode / ItemName                                         | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|-------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 555870 / Custom Standard, 2,4-dinitrophenol Std [CS 5328-3] | A0200549 | 10/30/2025      | 04/30/2025 / Rahul      | 08/10/2023 / yogesh         | S11484         |

| 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   | 31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride | A0200655 | 01/01/2026      | 07/01/2025 / Rahul      | 11/21/2023 / rahul          | S11807         |

## CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName                                           | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|---------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride | A0200655 | 02/25/2026      | 08/25/2025 / Jagrut     | 11/21/2023 / rahul          | S11808         |

| Supplier | ItemCode / ItemName                                    | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|--------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul | A0206206 | 01/02/2026      | 07/02/2025 / Jagrut     | 03/15/2024 / Rahul          | S12197         |

| Supplier | ItemCode / ItemName                                    | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|--------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul | A0206206 | 03/10/2026      | 09/10/2025 / Jagrut     | 03/15/2024 / Rahul          | S12199         |

| Supplier | ItemCode / ItemName                                    | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|--------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul | A0206206 | 03/10/2026      | 09/10/2025 / Jagrut     | 03/15/2024 / Rahul          | S12200         |

| Supplier | ItemCode / ItemName                                    | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|--------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul | A0206206 | 03/22/2026      | 09/22/2025 / Jagrut     | 03/15/2024 / Rahul          | S12201         |

| Supplier | ItemCode / ItemName                                                           | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|-------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31086 / Base Neutral Surrogate 5000ug/ml,CH <sub>2</sub> Cl <sub>2</sub> ,5ml | A0206381 | 01/02/2026      | 07/02/2025 / Jagrut     | 03/15/2024 / Rahul          | S12220         |

## 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 | A0206381 | 03/10/2026      | 09/10/2025 / Jagrut     | 03/15/2024 / Rahul          | S12221         |

| Supplier | ItemCode / ItemName                          | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|----------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 30409 / Pyridine, 2000 PPM in P & T Methanol | A0206650 | 12/16/2025      | 06/16/2025 / Jagrut     | 05/14/2024 / Rahul          | S12245         |

| Supplier | ItemCode / ItemName                                                            | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|--------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31902 / CLP/SVOA Additions Mix (Atrazine, Benzaldehyde, Caprolactam) 1000ug/mL | A0206859 | 01/31/2026      | 08/12/2025 / Jagrut     | 05/30/2024 / Rahul          | S12306         |

| Supplier | ItemCode / ItemName                                                            | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|--------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31902 / CLP/SVOA Additions Mix (Atrazine, Benzaldehyde, Caprolactam) 1000ug/mL | A0206859 | 01/31/2026      | 08/12/2025 / Jagrut     | 05/30/2024 / Rahul          | S12307         |

| Supplier | ItemCode / ItemName                                                                                   | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|-------------------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 555223 / Custom 8270 Plus Std #1 [2nd lot at \$100 per ampul if requested - contact ARM with Request] | A0214021 | 01/01/2026      | 07/01/2025 / Rahul      | 07/23/2024 / RAHUL          | S12507         |

[CS 4978-1]

| Supplier | ItemCode / ItemName                                                                                   | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|-------------------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 555223 / Custom 8270 Plus Std #1 [2nd lot at \$100 per ampul if requested - contact ARM with Request] | A0214021 | 02/25/2026      | 08/25/2025 / Jagrut     | 07/23/2024 / RAHUL          | S12508         |

[CS 4978-1]

## CHEMICAL RECEIPT LOG BOOK

| 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 | 01/01/2026      | 07/01/2025 /<br>Rahul   | 07/23/2024 /<br>RAHUL       | S12552         |

[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 | 02/25/2026      | 08/25/2025 /<br>Jagrut  | 07/23/2024 /<br>RAHUL       | S12553         |

[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 | 02/25/2026      | 08/25/2025 /<br>Jagrut  | 07/23/2024 /<br>RAHUL       | S12554         |

[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 | 02/25/2026      | 08/25/2025 /<br>Jagrut  | 07/23/2024 /<br>RAHUL       | S12555         |

[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 | 02/25/2026      | 08/25/2025 /<br>Jagrut  | 07/23/2024 /<br>RAHUL       | S12556         |

[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 | 02/25/2026      | 08/25/2025 /<br>Jagrut  | 07/23/2024 /<br>RAHUL       | S12557         |

[CS 4978-2]



## CHEMICAL RECEIPT LOG BOOK

| 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 | 02/25/2026      | 08/25/2025 /<br>Jagrut  | 07/23/2024 /<br>RAHUL       | S12558         |

[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 | 02/25/2026      | 08/25/2025 /<br>Jagrut  | 07/23/2024 /<br>RAHUL       | S12559         |

[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 | 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   | 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   | 31900 / SOM01.1 Mega<br>Mix, 500-1000 ug/ml | A0215529 | 02/12/2026      | 08/12/2025 /<br>Jagrut  | 10/08/2024 /<br>anahy       | S12739         |

| Supplier                 | ItemCode / ItemName                                                     | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------|-------------------------------------------------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| Absolute Standards, Inc. | 90494 /<br>1-Methylnaphthalene, 2000<br>ug/mL, in methylene<br>chloride | 061323 | 02/12/2026      | 08/12/2025 /<br>Jagrut  | 11/08/2024 /<br>anahy       | S12776         |

## 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 | 03/10/2026      | 09/10/2025 / Jagrut     | 12/09/2024 / anahy          | S12903         |

| 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 | 03/10/2026      | 09/10/2025 / Jagrut     | 12/09/2024 / anahy          | S12904         |

| 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 # |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31850 / 8270 SV Mix,<br>8270 Mega Mix 1mL,<br>1000ug/mL, CH <sub>2</sub> Cl <sub>2</sub> [New Solvent 100% CH <sub>2</sub> Cl <sub>2</sub> ] | A0221014 | 11/30/2025      | 07/01/2025 / Rahul      | 05/20/2025 / Rahul          | S13089         |

| Supplier | ItemCode / ItemName                                                                                                                          | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31850 / 8270 SV Mix,<br>8270 Mega Mix 1mL,<br>1000ug/mL, CH <sub>2</sub> Cl <sub>2</sub> [New Solvent 100% CH <sub>2</sub> Cl <sub>2</sub> ] | A0221014 | 11/30/2025      | 08/25/2025 / Jagrut     | 05/20/2025 / Rahul          | S13090         |

| Supplier | ItemCode / ItemName                                                                                                                          | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31850 / 8270 SV Mix,<br>8270 Mega Mix 1mL,<br>1000ug/mL, CH <sub>2</sub> Cl <sub>2</sub> [New Solvent 100% CH <sub>2</sub> Cl <sub>2</sub> ] | A0221014 | 11/30/2025      | 08/25/2025 / Jagrut     | 05/20/2025 / Rahul          | S13091         |

## CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName                                                                                                                          | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31850 / 8270 SV Mix,<br>8270 Mega Mix 1mL,<br>1000ug/mL, CH <sub>2</sub> Cl <sub>2</sub> [New Solvent 100% CH <sub>2</sub> Cl <sub>2</sub> ] | A0221014 | 11/30/2025      | 08/25/2025 / Jagrut     | 05/20/2025 / Rahul          | S13092         |

| Supplier | ItemCode / ItemName                                                                                                                          | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31850 / 8270 SV Mix,<br>8270 Mega Mix 1mL,<br>1000ug/mL, CH <sub>2</sub> Cl <sub>2</sub> [New Solvent 100% CH <sub>2</sub> Cl <sub>2</sub> ] | A0221014 | 11/30/2025      | 08/25/2025 / Jagrut     | 05/20/2025 / Rahul          | S13093         |

| Supplier | ItemCode / ItemName                                                                                                                          | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31850 / 8270 SV Mix,<br>8270 Mega Mix 1mL,<br>1000ug/mL, CH <sub>2</sub> Cl <sub>2</sub> [New Solvent 100% CH <sub>2</sub> Cl <sub>2</sub> ] | A0221014 | 11/30/2025      | 08/25/2025 / Jagrut     | 05/20/2025 / Rahul          | S13094         |

| Supplier | ItemCode / ItemName                                                                                                                          | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31850 / 8270 SV Mix,<br>8270 Mega Mix 1mL,<br>1000ug/mL, CH <sub>2</sub> Cl <sub>2</sub> [New Solvent 100% CH <sub>2</sub> Cl <sub>2</sub> ] | A0221014 | 11/30/2025      | 08/25/2025 / Jagrut     | 05/20/2025 / Rahul          | S13095         |

| Supplier | ItemCode / ItemName                                                                                                                          | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31850 / 8270 SV Mix,<br>8270 Mega Mix 1mL,<br>1000ug/mL, CH <sub>2</sub> Cl <sub>2</sub> [New Solvent 100% CH <sub>2</sub> Cl <sub>2</sub> ] | A0221014 | 11/30/2025      | 08/25/2025 / Jagrut     | 05/20/2025 / Rahul          | S13096         |

| Supplier | ItemCode / ItemName                                                                                                                          | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31850 / 8270 SV Mix,<br>8270 Mega Mix 1mL,<br>1000ug/mL, CH <sub>2</sub> Cl <sub>2</sub> [New Solvent 100% CH <sub>2</sub> Cl <sub>2</sub> ] | A0221014 | 11/30/2025      | 09/03/2025 / Jagrut     | 05/20/2025 / Rahul          | S13097         |

## CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName                                           | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|---------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride | A0218894 | 02/25/2026      | 08/25/2025 / Jagrut     | 05/20/2025 / Rahul          | S13118         |

| 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          | S13119         |

| 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   | 555869 / Custom Standard, hexachlorocyclopentadiene Std [CS 5328-2] | A0201702 | 02/25/2026      | 08/25/2025 / Jagrut     | 11/13/2023 / Rahul          | S13149         |

| Supplier | ItemCode / ItemName                                     | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|---------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 555871 / Custom Standard, 4-nitrophenol Std [CS 5238-4] | A0226283 | 02/25/2026      | 08/25/2025 / Jagrut     | 06/04/2025 / Rahul          | S13160         |

| Supplier | ItemCode / ItemName                                                                        | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|--------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH <sub>2</sub> Cl <sub>2</sub> , 1mL | A0224359 | 02/11/2026      | 08/11/2025 / Rahul      | 06/02/2025 / anahy          | S13170         |

## CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName                                                                        | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|--------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH <sub>2</sub> Cl <sub>2</sub> , 1mL | A0224359 | 03/15/2026      | 09/15/2025 / rahul      | 06/02/2025 / anahy          | S13175         |

| Supplier | ItemCode / ItemName                                 | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|-----------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 555868 / Custom Standard, Benzidine Std [CS 5328-1] | A0226493 | 02/12/2026      | 08/12/2025 / Jagrut     | 06/11/2025 / anahy          | S13207         |

| Supplier | ItemCode / ItemName                                              | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31879 / Benzoic Acid, 2000 µg/mL, Methylene Chloride, 1 mL/ampul | A0221395 | 02/12/2026      | 08/12/2025 / Jagrut     | 07/10/2025 / anahy          | S13214         |

| Supplier | ItemCode / ItemName                                                                  | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|--------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 582978 / Custom Calibration Standard - C8 2,000µg/mL, Methylene chloride, 1mL/ampul, | A0228192 | 02/12/2026      | 08/12/2025 / Jagrut     | 08/01/2025 / Rahul          | S13233         |

Chromatographic,  
CS-347186

| 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 | 02/25/2026      | 08/25/2025 / Jagrut     | 08/06/2025 / Rahul          | S13239         |

[CS 4978-1]

| Supplier | ItemCode / ItemName                                                                                   | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|-------------------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 555223 / Custom 8270 Plus Std #1 [2nd lot at \$100 per ampul if requested - contact ARM with Request] | A0228451 | 02/25/2026      | 08/25/2025 / Jagrut     | 08/06/2025 / Rahul          | S13240         |

[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 | 02/25/2026      | 08/25/2025 /<br>Jagrut  | 08/06/2025 /<br>Rahul       | S13241         |

[CS 4978-1]

| Supplier | ItemCode / ItemName                                                                                            | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|----------------------------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 555223 / Custom 8270<br>Plus Std #1 [2nd lot at \$100<br>per ampul if requested -<br>contact ARM with Request] | A0228451 | 02/25/2026      | 08/25/2025 /<br>Jagrut  | 08/06/2025 /<br>Rahul       | S13242         |

[CS 4978-1]

| Supplier | ItemCode / ItemName                                                                                            | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|----------------------------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 555223 / Custom 8270<br>Plus Std #1 [2nd lot at \$100<br>per ampul if requested -<br>contact ARM with Request] | A0228451 | 02/25/2026      | 08/25/2025 /<br>Jagrut  | 08/06/2025 /<br>Rahul       | S13243         |

[CS 4978-1]

| Supplier | ItemCode / ItemName                                                                                            | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|----------------------------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 555223 / Custom 8270<br>Plus Std #1 [2nd lot at \$100<br>per ampul if requested -<br>contact ARM with Request] | A0228451 | 02/25/2026      | 08/25/2025 /<br>Jagrut  | 08/06/2025 /<br>Rahul       | S13244         |

[CS 4978-1]

| Supplier | ItemCode / ItemName                                                                                           | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|---------------------------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 555224 / Custom 8270<br>Plus Std #2 [2nd lot at \$85<br>per ampul if requested -<br>contact ARM with Request] | A0228494 | 02/25/2026      | 08/25/2025 /<br>Jagrut  | 08/06/2025 /<br>Rahul       | S13269         |

[CS 4978-2]



# CERTIFIED REFERENCE MATERIAL

110 Benner Circle  
Bellefonte, PA 16823-8812  
Tel: (800)356-1688  
Fax: (814)353-1309

www.restek.com

## Certificate of Analysis



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

Received on  
02/08/23

b1

CG

S 11071

to

S 11075

Catalog No. : 31853 Lot No.: A0187043  
Description : 1,4-dioxane  
1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul  
Container Size : 2 mL Pkg Amt: > 1 mL  
Expiration Date : July 31, 2027 Storage: 0°C or colder  
Ship: Ambient

### CERTIFIED VALUES

| Elution Order | Compound                                                      | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2)                                                        |
|---------------|---------------------------------------------------------------|-----------------------------|---------------------------------------------------------------------------------------------|
| 1             | 1,4-Dioxane<br>CAS # 123-91-1<br>Purity 99%<br>(Lot SHBN5929) | 2,019.0 µg/mL               | +/- 11.8486 µg/mL Gravimetric<br>+/- 43.2570 µg/mL Unstressed<br>+/- 44.5129 µg/mL Stressed |

Solvent: Methylene chloride  
CAS # 75-09-2  
Purity 99%

**Column:**

105m x 0.53mm x 3.0µm  
Rtx-502.2 (cat.#10910)

**Carrier Gas:**

hydrogen-constant pressure 11.0 psi.

**Temp. Program:**

40°C (hold 2 min.) to 240°C  
@ 8°C/min. (hold 5 min.)

**Inj. Temp:**

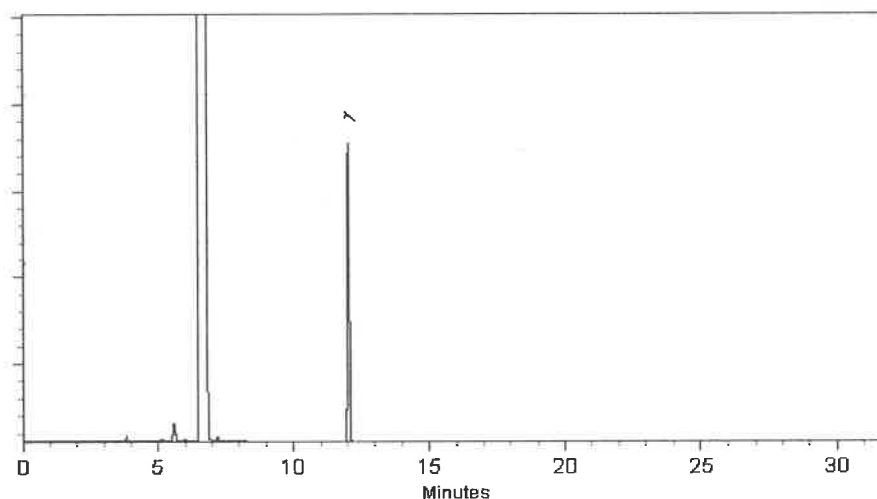
200°C

**Det. Temp:**

250°C

**Det. Type:**

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brittany Federinko - Operations Tech I

Date Mixed: 07-Jul-2022

Balance: 1128360905

Marlina Cowan - Operations Tech II ARM QC

Date Passed: 12-Jul-2022

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397



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

Rec on 8/20/25

E3965

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



**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

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

RS

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E 3932

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



|                      |                                |
|----------------------|--------------------------------|
| Material             | BDH9274-2.5KG                  |
| Material Description | BDH SAND STDD OTTAWA W+I 2.5KG |
| Grade                | NOT APPLICABLE                 |
| Batch                | 25A2756718                     |
| Reassay Date         | 12/31/2028                     |
| CAS Number           | 14808-60-7                     |
| Molecular Formula    | SiO <sub>2</sub>               |
| Molecular Mass       | 60.09                          |
| Date of Manufacture  | 12/05/2024                     |
| Storage              | Room Temperature               |

| Characteristics               | Specifications  | Measured Values |
|-------------------------------|-----------------|-----------------|
| Appearance                    | Beige granules. | Beige granules. |
| Moisture                      | <= 0.1 %        | 0.1 %           |
| Particle Size 30-40 mesh      | >= 80 %         | 99 %            |
| CUSTOMER PART # BDH9274-2.5KG |                 |                 |

*Received on 1/12/25.*

**E3951**

Internal ID #: 793

| Signature                                                                                                                                                                                                                                                                                                   | Additional Information                                                                                                                                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>We certify that this batch conforms to the specifications listed above.</p> <p>This document has been electronically produced and is valid without a signature.</p> <p>Leona Edwardson, Quality Control Sr. Manager - Solon<br/> VWR Chemicals, LLC.<br/> 28600 Fountain Parkway, Solon OH 44139 USA</p> | <p>Analysis may have been rounded to significant digits in specification limits</p> <p>Product meets analytical specifications of the grades listed.</p> |

Methylene Chloride  
ULTRA RESI-ANALYZED  
For Organic Residue Analysis  
(dichloromethane)



Material No.: 9266-A4  
Batch No.: 25B1862001  
Manufactured Date: 2024-12-18  
Expiration Date: 2026-03-19  
Revision No.: 0

## Certificate of Analysis

| Test                                                                                       | Specification          | Result  |
|--------------------------------------------------------------------------------------------|------------------------|---------|
| FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)                       | $\leq 5$               | <1      |
| ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)                       | $\leq 10$              | 2       |
| Assay ( $\text{CH}_2\text{Cl}_2$ ) (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

RS  
7/14/25

E3954

Jamie Croak  
Director Quality Operations, Bioscience Production

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)

avantortm



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

E 3973

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

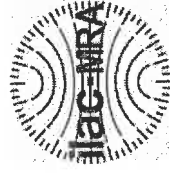
Avantor Performance Materials LLC



## CERTIFIED REFERENCE MATERIAL

110 Benner Circle  
Bellefonte, PA 16823-8812  
Tel: 1-814-353-1300  
Fax: 1-814-353-1309

[www.restek.com](http://www.restek.com)



## 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.: 555870 Lot No.: A0200549

Description: Custom 2,4-Dinitrophenol Standard

Custom 2,4-Dinitrophenol Standard 25,000µg/mL, Methanol, 1mL/ampul

Container Size: 2 mL Pkg Amt: > 1 mL

Expiration Date: August 31, 2026 Storage: 10°C or colder

Ship: Ambient

5116gh } Y.P.  
↓  
511693 } 08/10/28

### CERTIFIED VALUES

| Component # | Compound          | CAS #   | Lot #       | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|-------------|-------------------|---------|-------------|--------|-----------------------------|----------------------------------------|
| 1           | 2,4-Dinitrophenol | 51-28-5 | DR230417RSR | 99%    | 25,008.0 µg/mL              | +/- 777.3323                           |

Solvent: Methanol  
CAS # 67-56-1  
Purity 99%

  
Tom Suckar, Mix Technician

Date Mixed: 02-Aug-2023 Balance: 1128342314

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](http://www.restek.com)

## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

gravimetric



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No.:** 555872 **Lot No.:** A0201728

**Description:** Custom Pentachlorophenol Standard

Custom Pentachlorophenol Standard 25,000µg/mL, Methanol, 1mL/ampul

**Container Size:** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date:** September 30, 2026 **Storage:** 10°C or colder

**Ship:** Ambient

511649 } Y.P.  
↓ 11/13/23  
511658 }

### CERTIFIED VALUES

| Component # | Compound          | CAS #   | Lot #       | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty* (95% C.L.; K=2) |
|-------------|-------------------|---------|-------------|--------|-----------------------------|---------------------------------------|
| 1           | Pentachlorophenol | 87-86-5 | RP230530RSR | 99%    | 25,000.0 µg/mL              | +/- 777.0837                          |

**Solvent:** Methanol  
**CAS #** 67-56-1  
**Purity** 99%

Josh McCloskey - Operations Technician I

**Date Mixed:** 05-Sep-2023 **Balance:** B251644995

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

$k$  is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle  
Bellefonte, PA 16823-8812  
Tel: 1-814-353-1300  
Fax: 1-814-353-1309

www.restek.com

## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

chromatographic plus



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31853 **Lot No.:** A0200655  
**Description :** 1,4-dioxane  
1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul  
**Container Size :** 2 mL **Pkg Amt:** > 1 mL  
**Expiration Date :** August 31, 2028 **Storage:** 0°C or colder  
**Ship:** Ambient

S11795  
↓  
S11808 } RC /  
11/30/23

### CERTIFIED VALUES

| Elution Order | Compound    | CAS #    | Lot #    | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|-------------|----------|----------|--------|-----------------------------|----------------------------------------|
| 1             | 1,4-Dioxane | 123-91-1 | SHBQ1693 | 99%    | 2,007.0 µg/mL               | +/- 24.9775                            |

\* 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:**

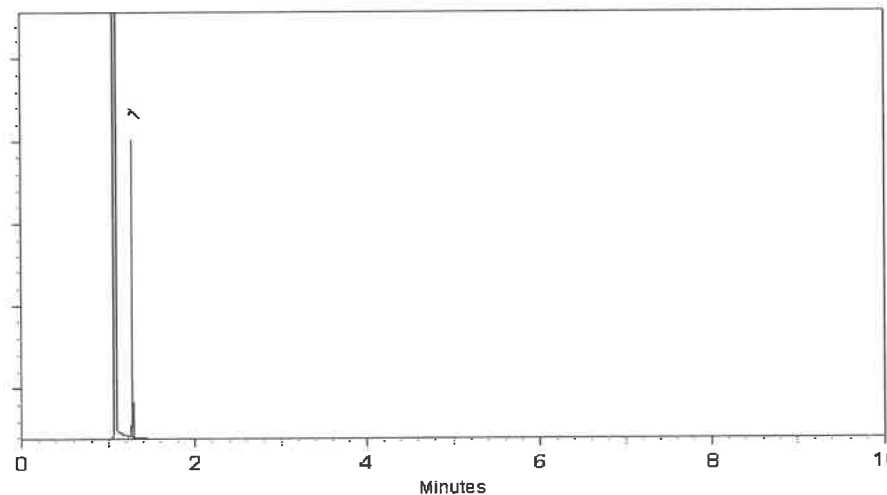
FID

**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: 06-Aug-2023

Balance Serial # 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 08-Aug-2023

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

$k$  is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.





110 Benner Circle  
Bellefonte, PA 16823-8812  
Tel: 1-814-353-1300  
Fax: 1-814-353-1309

www.restek.com

## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

chromatographic plus



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31853 **Lot No.:** A0200655  
**Description :** 1,4-dioxane  
1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul  
**Container Size :** 2 mL **Pkg Amt:** > 1 mL  
**Expiration Date :** August 31, 2028 **Storage:** 0°C or colder  
**Ship:** Ambient

S11795  
↓  
S11808 } RC /  
11/30/23

### CERTIFIED VALUES

| Elution Order | Compound    | CAS #    | Lot #    | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|-------------|----------|----------|--------|-----------------------------|----------------------------------------|
| 1             | 1,4-Dioxane | 123-91-1 | SHBQ1693 | 99%    | 2,007.0 µg/mL               | +/- 24.9775                            |

\* 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:**

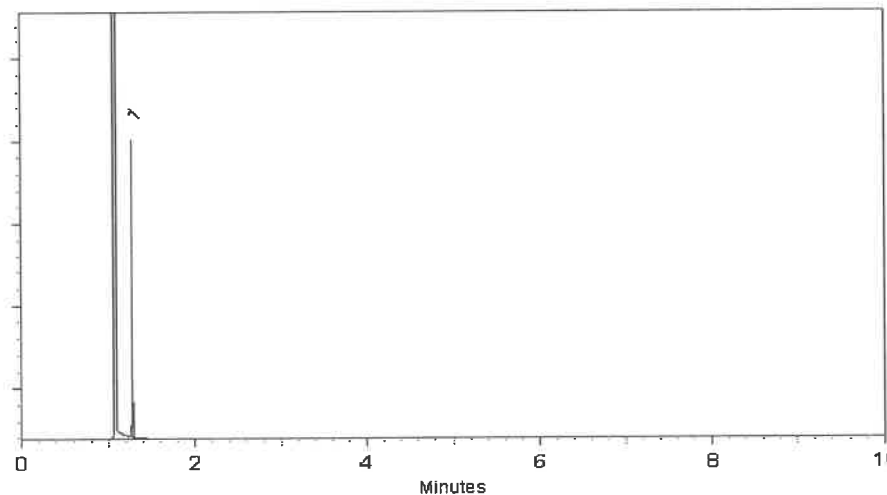
FID

**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: 06-Aug-2023

Balance Serial # 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 08-Aug-2023

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

$k$  is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.





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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

chromatographic plus



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31087 **Lot No.:** A0206206

**Description :** Acid Surrogate Mix (4/89 SOW)

Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul

**Container Size :** 5 mL **Pkg Amt:** > 5 mL

**Expiration Date :** January 31, 2032 **Storage:** 10°C or colder

**Ship:** Ambient

512187 } RC/  
↓ } 03/18/24  
512206 }

### CERTIFIED VALUES

| Elution Order | Compound             | CAS #      | Lot #       | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty* (95% C.L.; K=2) |
|---------------|----------------------|------------|-------------|--------|-----------------------------|---------------------------------------|
| 1             | 2-Fluorophenol       | 367-12-4   | STBK1705    | 99%    | 10,005.3 µg/mL              | +/- 302.5390                          |
| 2             | Phenol-d6            | 13127-88-3 | PR-33287A   | 99%    | 10,005.5 µg/mL              | +/- 302.5475                          |
| 3             | 2,4,6-Tribromophenol | 118-79-6   | RP230831RSR | 99%    | 10,006.6 µg/mL              | +/- 302.5783                          |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methanol  
**CAS #** 67-56-1  
**Purity** 99%

# Quality Confirmation Test

**Column:**

30m x 0.25mm x 0.25µm  
Rtx-5 (cat.#10223)

**Carrier Gas:**

hydrogen-constant pressure 10 psi.

**Temp. Program:**

40°C (hold 2 min.) to 330°C  
@ 10°C/min. (hold 10 min.)

**Inj. Temp:**

250°C

**Det. Temp:**

330°C

**Det. Type:**

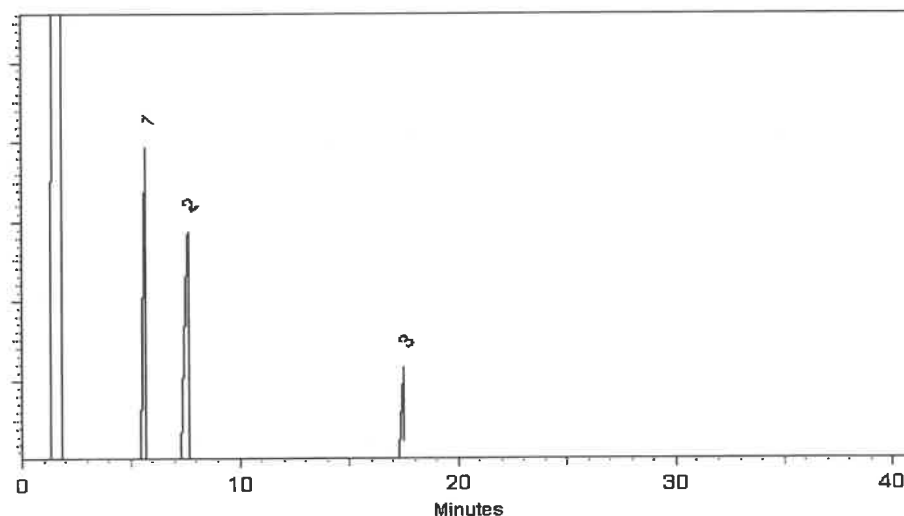
FID

**Split Vent:**

2 ml/min.

**Inj. Vol**

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

*Penelope S. Riglin*

Penelope Riglin - Operations Tech I

Date Mixed: 04-Jan-2024

Balance Serial # 1128360905

*Christie Mills*

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Jan-2024

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397



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*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31087 **Lot No.:** A0206206  
**Description :** Acid Surrogate Mix (4/89 SOW)  
Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul  
**Container Size :** 5 mL **Pkg Amt:** > 5 mL  
**Expiration Date :** January 31, 2032 **Storage:** 10°C or colder  
**Ship:** Ambient

512187 } RC/  
↓  
512206 } 03/18/24

### CERTIFIED VALUES

| Elution Order | Compound             | CAS #      | Lot #       | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|----------------------|------------|-------------|--------|-----------------------------|----------------------------------------|
| 1             | 2-Fluorophenol       | 367-12-4   | STBK1705    | 99%    | 10,005.3 µg/mL              | +/- 302.5390                           |
| 2             | Phenol-d6            | 13127-88-3 | PR-33287A   | 99%    | 10,005.5 µg/mL              | +/- 302.5475                           |
| 3             | 2,4,6-Tribromophenol | 118-79-6   | RP230831RSR | 99%    | 10,006.6 µg/mL              | +/- 302.5783                           |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methanol  
**CAS #** 67-56-1  
**Purity** 99%

# Quality Confirmation Test

**Column:**

30m x 0.25mm x 0.25µm  
Rtx-5 (cat.#10223)

**Carrier Gas:**

hydrogen-constant pressure 10 psi.

**Temp. Program:**

40°C (hold 2 min.) to 330°C  
@ 10°C/min. (hold 10 min.)

**Inj. Temp:**

250°C

**Det. Temp:**

330°C

**Det. Type:**

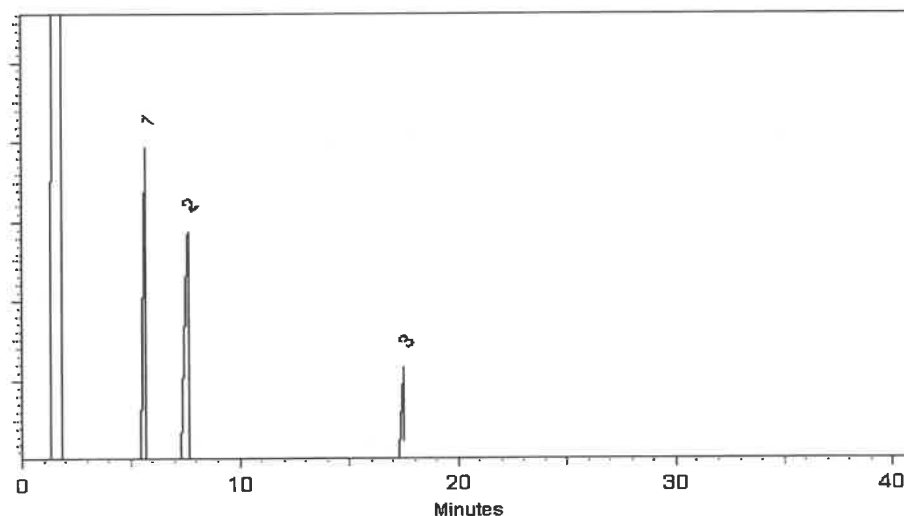
FID

**Split Vent:**

2 ml/min.

**Inj. Vol**

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

*Penelope B. Riglin*

Penelope Riglin - Operations Tech I

Date Mixed: 04-Jan-2024

Balance Serial # 1128360905

*Christie Mills*

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Jan-2024

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
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### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31087 **Lot No.:** A0206206  
**Description :** Acid Surrogate Mix (4/89 SOW)  
Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul  
**Container Size :** 5 mL **Pkg Amt:** > 5 mL  
**Expiration Date :** January 31, 2032 **Storage:** 10°C or colder  
**Ship:** Ambient

512187 } RC/  
↓ } 03/18/24  
512206 }

### CERTIFIED VALUES

| Elution Order | Compound             | CAS #      | Lot #       | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|----------------------|------------|-------------|--------|-----------------------------|----------------------------------------|
| 1             | 2-Fluorophenol       | 367-12-4   | STBK1705    | 99%    | 10,005.3 µg/mL              | +/- 302.5390                           |
| 2             | Phenol-d6            | 13127-88-3 | PR-33287A   | 99%    | 10,005.5 µg/mL              | +/- 302.5475                           |
| 3             | 2,4,6-Tribromophenol | 118-79-6   | RP230831RSR | 99%    | 10,006.6 µg/mL              | +/- 302.5783                           |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methanol  
**CAS #** 67-56-1  
**Purity** 99%



# Quality Confirmation Test

**Column:**

30m x 0.25mm x 0.25µm  
Rtx-5 (cat.#10223)

**Carrier Gas:**

hydrogen-constant pressure 10 psi.

**Temp. Program:**

40°C (hold 2 min.) to 330°C  
@ 10°C/min. (hold 10 min.)

**Inj. Temp:**

250°C

**Det. Temp:**

330°C

**Det. Type:**

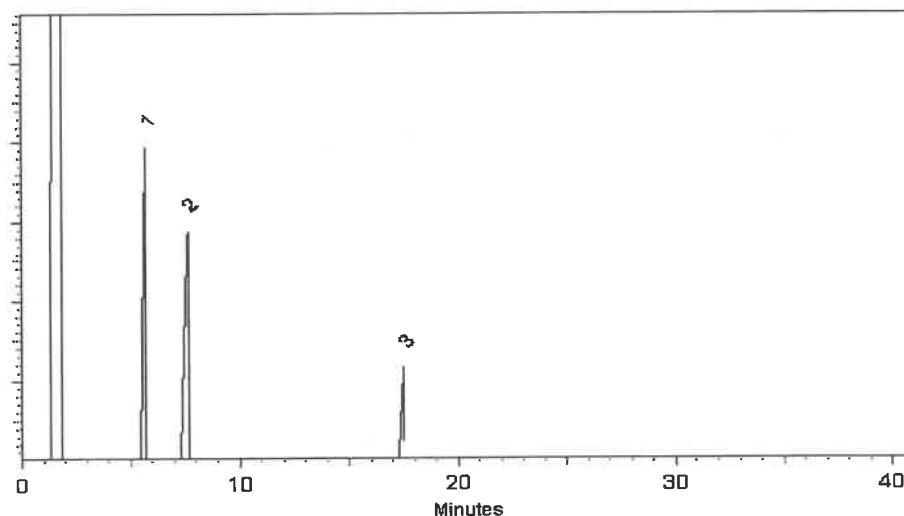
FID

**Split Vent:**

2 ml/min.

**Inj. Vol**

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

*Penelope S. Riglin*

Penelope Riglin - Operations Tech I

Date Mixed: 04-Jan-2024

Balance Serial # 1128360905

*Christie Mills*

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Jan-2024

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### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31087 **Lot No.:** A0206206  
**Description :** Acid Surrogate Mix (4/89 SOW)  
Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul  
**Container Size :** 5 mL **Pkg Amt:** > 5 mL  
**Expiration Date :** January 31, 2032 **Storage:** 10°C or colder  
**Ship:** Ambient

512187 } RC/  
↓ } 03/18/24  
512206 }

### CERTIFIED VALUES

| Elution Order | Compound             | CAS #      | Lot #       | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|----------------------|------------|-------------|--------|-----------------------------|----------------------------------------|
| 1             | 2-Fluorophenol       | 367-12-4   | STBK1705    | 99%    | 10,005.3 µg/mL              | +/- 302.5390                           |
| 2             | Phenol-d6            | 13127-88-3 | PR-33287A   | 99%    | 10,005.5 µg/mL              | +/- 302.5475                           |
| 3             | 2,4,6-Tribromophenol | 118-79-6   | RP230831RSR | 99%    | 10,006.6 µg/mL              | +/- 302.5783                           |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methanol  
**CAS #** 67-56-1  
**Purity** 99%

# Quality Confirmation Test

**Column:**

30m x 0.25mm x 0.25µm  
Rtx-5 (cat.#10223)

**Carrier Gas:**

hydrogen-constant pressure 10 psi.

**Temp. Program:**

40°C (hold 2 min.) to 330°C  
@ 10°C/min. (hold 10 min.)

**Inj. Temp:**

250°C

**Det. Temp:**

330°C

**Det. Type:**

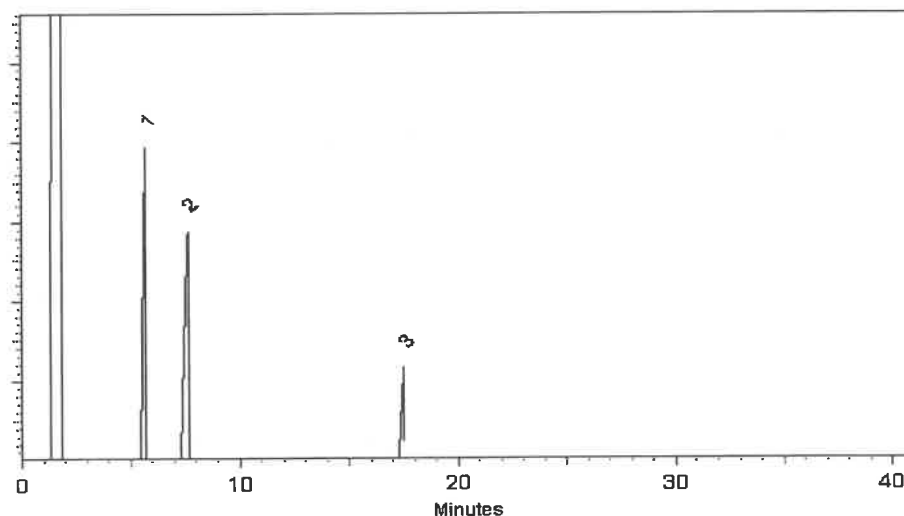
FID

**Split Vent:**

2 ml/min.

**Inj. Vol**

1µl



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*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

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### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31086 **Lot No.:** A0206381  
**Description :** B/N Surrogate Mix (4/89 SOW)  
Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul  
**Container Size :** 5 mL **Pkg Amt:** > 5 mL  
**Expiration Date :** December 31, 2029 **Storage:** 10°C or colder  
**Handling:** Sonicate prior to use. **Ship:** Ambient

S12207 } RC/  
↓  
S12221 } 03/18/24

### CERTIFIED VALUES

| Elution Order | Compound         | CAS #     | Lot #    | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|------------------|-----------|----------|--------|-----------------------------|----------------------------------------|
| 1             | Nitrobenzene-d5  | 4165-60-0 | I-25158  | 99%    | 5,029.3 µg/mL               | +/- 226.5204                           |
| 2             | 2-Fluorobiphenyl | 321-60-8  | 00021384 | 99%    | 5,030.9 µg/mL               | +/- 226.5936                           |
| 3             | p-Terphenyl-d14  | 1718-51-0 | PR-32599 | 99%    | 5,026.4 µg/mL               | +/- 226.3909                           |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

### Tech Tips:

Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

# Quality Confirmation Test

**Column:**

30m x 0.25mm x 0.25µm  
Rtx-S (cat.#10223)

**Carrier Gas:**

hydrogen-constant pressure 10 psi.

**Temp. Program:**

40°C (hold 2 min.) to 330°C  
@ 10°C/min. (hold 10 min.)

**Inj. Temp:**

250°C

**Det. Temp:**

330°C

**Det. Type:**

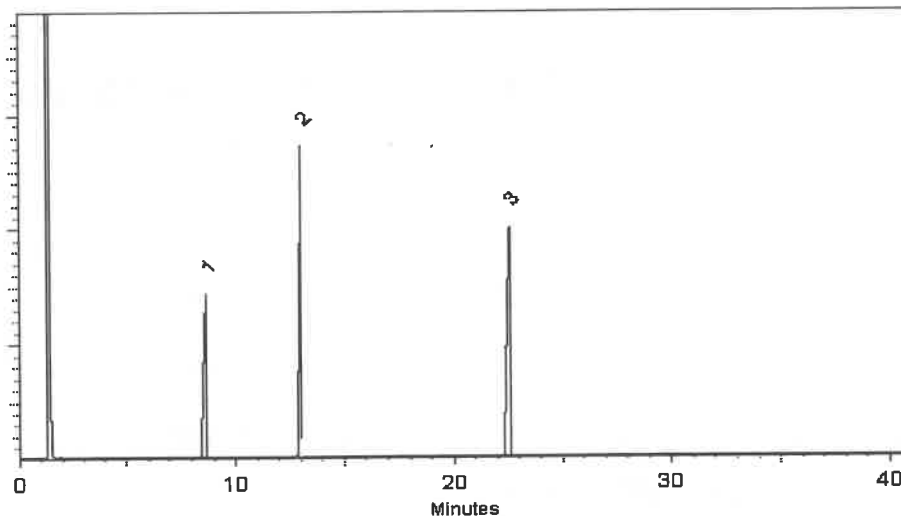
FID

**Split Vent:**

2 ml/min.

**Inj. Vol**

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024 Balance Serial # 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

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### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31086 **Lot No.:** A0206381  
**Description :** B/N Surrogate Mix (4/89 SOW)  
Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul  
**Container Size :** 5 mL **Pkg Amt:** > 5 mL  
**Expiration Date :** December 31, 2029 **Storage:** 10°C or colder  
**Handling:** Sonicate prior to use. **Ship:** Ambient

S12207 } RC/  
↓  
S12221 } 03/18/24

### CERTIFIED VALUES

| Elution Order | Compound         | CAS #     | Lot #    | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|------------------|-----------|----------|--------|-----------------------------|----------------------------------------|
| 1             | Nitrobenzene-d5  | 4165-60-0 | I-25158  | 99%    | 5,029.3 µg/mL               | +/- 226.5204                           |
| 2             | 2-Fluorobiphenyl | 321-60-8  | 00021384 | 99%    | 5,030.9 µg/mL               | +/- 226.5936                           |
| 3             | p-Terphenyl-d14  | 1718-51-0 | PR-32599 | 99%    | 5,026.4 µg/mL               | +/- 226.3909                           |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

### Tech Tips:

Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

# Quality Confirmation Test

**Column:**

30m x 0.25mm x 0.25µm  
Rtx-S (cat.#10223)

**Carrier Gas:**

hydrogen-constant pressure 10 psi.

**Temp. Program:**

40°C (hold 2 min.) to 330°C  
@ 10°C/min. (hold 10 min.)

**Inj. Temp:**

250°C

**Det. Temp:**

330°C

**Det. Type:**

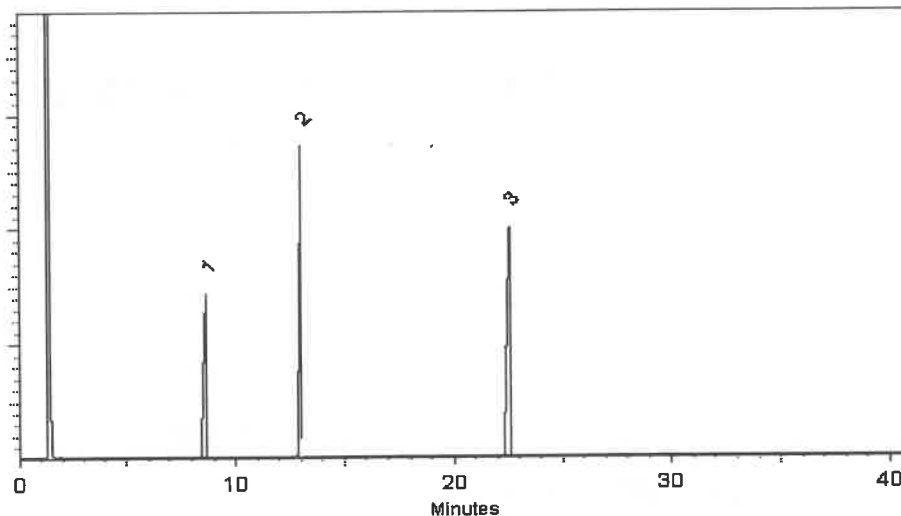
FID

**Split Vent:**

2 ml/min.

**Inj. Vol**

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024 Balance Serial # 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

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Certificate #FM 80397



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CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

chromatographic plus



**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30409 **Lot No.:** A0206650  
**Description :** Pyridine Standard  
Pyridine 2000µg/mL, P&T Methanol, 1mL/ampul  
**Container Size :** 2 mL **Pkg Amt:** > 1 mL  
**Expiration Date :** October 31, 2027 **Storage:** 0°C or colder  
**Ship:** Ambient

512242 } RC/  
↓  
512254 } 5/15/24

CERTIFIED VALUES

| Elution Order | Compound | CAS #    | Lot #    | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|----------|----------|----------|--------|-----------------------------|----------------------------------------|
| 1             | Pyridine | 110-86-1 | SHBP6240 | 99%    | 2,020.0 µg/mL               | +/- 33.0924                            |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol  
**CAS #** 67-56-1  
**Purity** 99%



## Quality Confirmation Test

**Column:**

105m x 0.53mm x 3.0µm  
Rtx-502.2 (cat.#10910)

**Carrier Gas:**

hydrogen-constant pressure 11.0 psi.

**Temp. Program:**

40°C (hold 2 min.) to 240°C  
@ 8°C/min. (hold 5 min.)

**Inj. Temp:**

200°C

**Det. Temp:**

250°C

**Det. Type:**

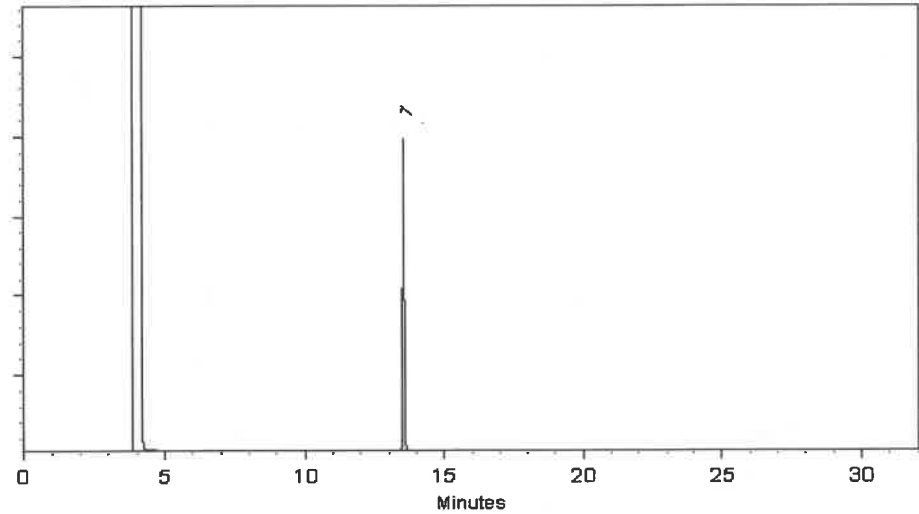
FID

**Split Vent:**

40 ml/min

**Inj. Vol**

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

*Sam Moodler*  
Sam Moodler - Operations Tech I

Date Mixed: 16-Jan-2024

Balance Serial # B707717271

*Jennifer Pollino*  
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 18-Jan-2024

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397



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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

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### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31902 **Lot No.:** A0206859

**Description :** Additions Standard  
Additions Standard 1000 µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** January 31, 2026 **Storage:** 10°C or colder

**Handling:** This product is photosensitive. **Ship:** Ambient

512302 } RC/  
↓  
512311 } 5/30/24

### CERTIFIED VALUES

| Elution Order | Compound            | CAS #     | Lot #        | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|---------------------|-----------|--------------|--------|-----------------------------|----------------------------------------|
| 1             | Benzaldehyde        | 100-52-7  | RD231129RSRA | 99%    | 1,005.0 µg/mL               | +/- 29.5419                            |
| 2             | epsilon-Caprolactam | 105-60-2  | I16X016      | 99%    | 1,008.8 µg/mL               | +/- 29.6521                            |
| 3             | Atrazine            | 1912-24-9 | 5FYWL        | 99%    | 1,008.8 µg/mL               | +/- 29.6521                            |

\* 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:**

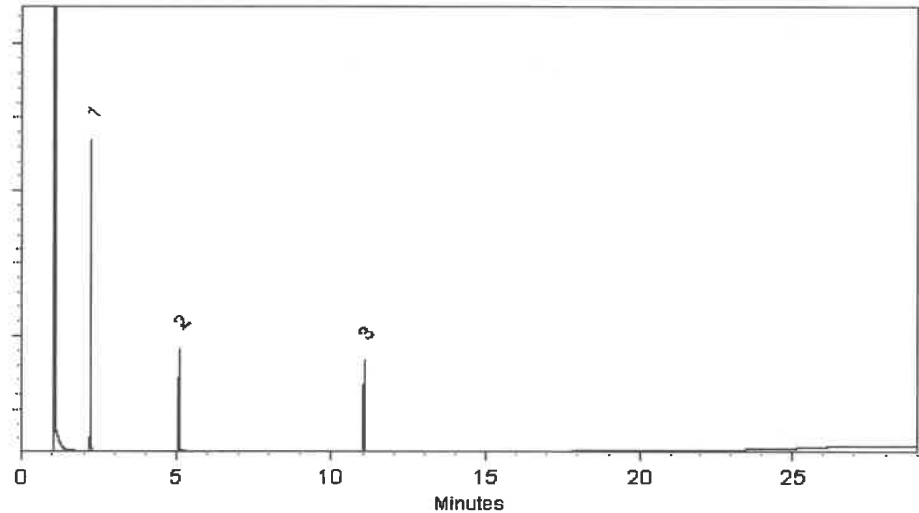
FID

**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.

Stacey Wanner - Operations Technician I

Date Mixed: 23-Jan-2024

Balance Serial # B442140311

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Jan-2024

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397



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### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31902 **Lot No.:** A0206859

**Description :** Additions Standard

Additions Standard 1000 µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** January 31, 2026 **Storage:** 10°C or colder

**Handling:** This product is photosensitive. **Ship:** Ambient

512302 } RC/  
↓  
512311 } 5/30/24

### CERTIFIED VALUES

| Elution Order | Compound            | CAS #     | Lot #        | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|---------------------|-----------|--------------|--------|-----------------------------|----------------------------------------|
| 1             | Benzaldehyde        | 100-52-7  | RD231129RSRA | 99%    | 1,005.0 µg/mL               | +/- 29.5419                            |
| 2             | epsilon-Caprolactam | 105-60-2  | I16X016      | 99%    | 1,008.8 µg/mL               | +/- 29.6521                            |
| 3             | Atrazine            | 1912-24-9 | 5FYWL        | 99%    | 1,008.8 µg/mL               | +/- 29.6521                            |

\* 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:**

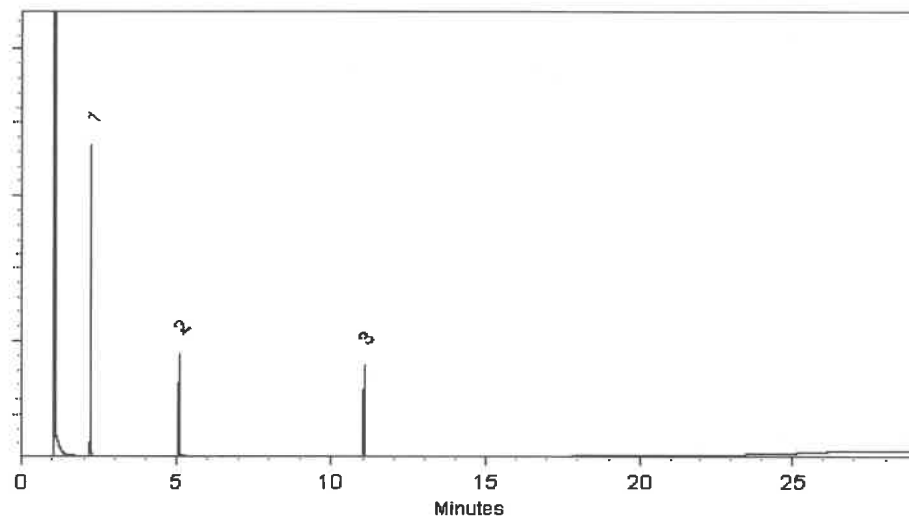
FID

**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.

Stacey Wanner - Operations Technician I

Date Mixed: 23-Jan-2024

Balance Serial # B442140311

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Jan-2024

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397



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Fax: 1-814-353-1309

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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

gravimetric



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 555223 **Lot No.:** A0214021

**Description :** Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** July 31, 2026 **Storage:** 10°C or colder

**Handling:** This product is photosensitive. **Ship:** Ambient

### CERTIFIED VALUES

| Component # | Compound               | CAS #     | Lot #      | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|-------------|------------------------|-----------|------------|--------|-----------------------------|----------------------------------------|
| 1           | 3,3'-Dichlorobenzidine | 91-94-1   | S240326RSR | 99%    | 1,004.0 µg/mL               | +/- 23.0487                            |
| 2           | Atrazine               | 1912-24-9 | 5FYWL      | 99%    | 1,005.0 µg/mL               | +/- 23.0717                            |
| 3           | Benzidine              | 92-87-5   | S240430RSR | 99%    | 1,006.0 µg/mL               | +/- 23.0947                            |
| 4           | epsilon-Caprolactam    | 105-60-2  | Y16H012    | 99%    | 1,000.0 µg/mL               | +/- 22.9569                            |

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

S12449 } RC/  
↓  
S12508 } 7/24/24

Rebecca Gingerich - Operations Tech II

**Date Mixed:** 18-Jul-2024

**Balance:** 1128353505

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ $\mu$ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

$k$  is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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**Catalog No. :** 555223 **Lot No.:** A0214021

**Description :** Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** July 31, 2026 **Storage:** 10°C or colder

**Handling:** This product is photosensitive. **Ship:** Ambient

### CERTIFIED VALUES

| Component # | Compound               | CAS #     | Lot #      | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|-------------|------------------------|-----------|------------|--------|-----------------------------|----------------------------------------|
| 1           | 3,3'-Dichlorobenzidine | 91-94-1   | S240326RSR | 99%    | 1,004.0 µg/mL               | +/- 23.0487                            |
| 2           | Atrazine               | 1912-24-9 | 5FYWL      | 99%    | 1,005.0 µg/mL               | +/- 23.0717                            |
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| 4           | epsilon-Caprolactam    | 105-60-2  | Y16H012    | 99%    | 1,000.0 µg/mL               | +/- 22.9569                            |

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

S12449 } RC/  
↓  
S12508 } 7/24/24

Rebecca Gingerich - Operations Tech II

**Date Mixed:** 18-Jul-2024

**Balance:** 1128353505

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397



## General Certified Reference Material Notes

### Expiration Notes:

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$k$  is a coverage factor of 2, which gives a level of confidence of approximately 95%.

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### Manufacturing Notes:

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*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:

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$k$  is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

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### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 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:

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**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:

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# Certificate of Analysis

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**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                          |
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| 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

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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  
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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.
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- Purity values are rounded to the nearest whole number.

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$k$  is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

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### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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**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.
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### Manufacturing Notes:

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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

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**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

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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. :** 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:

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### Certified Uncertainty Value Notes:

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$k$  is a coverage factor of 2, which gives a level of confidence of approximately 95%.

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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

chromatographic plus



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31615 **Lot No.:** A0212955

**Description :** GC/MS Tuning Mixture  
GC/MS Tuning Mixture 1,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** June 30, 2027 **Storage:** 10°C or colder

**Handling:** Contains carcinogen/reproductive toxin. **Ship:** Ambient

### CERTIFIED VALUES

| Elution Order | Compound                             | CAS #     | Lot #       | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|--------------------------------------|-----------|-------------|--------|-----------------------------|----------------------------------------|
| 1             | Pentachlorophenol                    | 87-86-5   | RP240517RSR | 99%    | 1,004.5 µg/mL               | +/- 44.8902                            |
| 2             | DFTPP (Decafluorotriphenylphosphine) | 5074-71-5 | Q117-147    | 99%    | 1,004.5 µg/mL               | +/- 44.8902                            |
| 3             | Benzidine                            | 92-87-5   | S240430RSR  | 99%    | 1,006.0 µg/mL               | +/- 44.9572                            |
| 4             | 4,4'-DDT                             | 50-29-3   | S240530RSR  | 97%    | 1,000.1 µg/mL               | +/- 44.6922                            |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

S12577 } RC  
↓  
S12579 } 8/2/24

## Quality Confirmation Test

**Column:**

30m x 0.25mm x 0.25µm  
Rtx-5 (cat.#10223)

**Carrier Gas:**

hydrogen-constant pressure 10 psi.

**Temp. Program:**

75°C (hold 1 min.) to 330°C  
@ 20°C/min. (hold 10 min.)

**Inj. Temp:**

250°C

**Det. Temp:**

330°C

**Det. Type:**

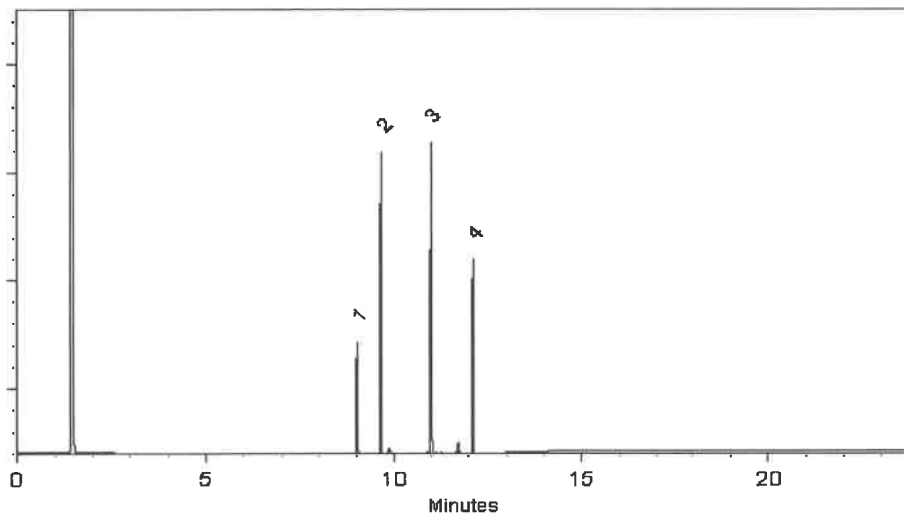
FID

**Split Vent:**

10 ml/min.

**Inj. Vol**

1µl

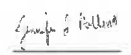


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

  
Ethan Winiarski - Operations Tech I

Date Mixed: 19-Jun-2024

Balance Serial # 1128353505

  
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 26-Jun-2024

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397



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## CERTIFIED REFERENCE MATERIAL

# 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. :** 31900 **Lot No.:** A0215529

**Description :** OLM 01.1 Revised SV MegaMix  
OLM 01.1 Revised SV MegaMix 500-1000 µg/mL, Methylene chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** February 28, 2026 **Storage:** 0°C or colder

**Handling:** Sonication required. Mix is photosensitive. **Ship:** Ambient

S12736 } AC  
↓  
S12754 } 10/9/24

### CERTIFIED VALUES

| Elution Order | Compound                     | CAS #    | Lot #       | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|------------------------------|----------|-------------|--------|-----------------------------|----------------------------------------|
| 1             | Phenol                       | 108-95-2 | MKCK1120    | 99%    | 1,008.6 µg/mL               | +/- 19.3211                            |
| 2             | Bis(2-chloroethyl)ether      | 111-44-4 | SHBL6942    | 99%    | 1,002.3 µg/mL               | +/- 19.2013                            |
| 3             | 2-Chlorophenol               | 95-57-8  | STBJ3909    | 99%    | 1,005.2 µg/mL               | +/- 19.2564                            |
| 4             | 2,2'-oxybis(1-chloropropane) | 108-60-1 | 29-MAR-45-5 | 99%    | 1,006.3 µg/mL               | +/- 19.2768                            |
| 5             | 2-Methylphenol (o-cresol)    | 95-48-7  | SHBN7598    | 99%    | 1,009.3 µg/mL               | +/- 19.3354                            |
| 6             | Acetophenone                 | 98-86-2  | STBH8205    | 99%    | 1,003.8 µg/mL               | +/- 18.5851                            |
| 7             | Hexachloroethane             | 67-72-1  | QTORH       | 99%    | 1,000.6 µg/mL               | +/- 19.1690                            |
| 8             | N-Nitroso-di-n-propylamine   | 621-64-7 | N63MG       | 99%    | 1,004.5 µg/mL               | +/- 19.2599                            |
| 9             | 4-Methylphenol (p-cresol)    | 106-44-5 | SHBN3411    | 99%    | 500.3 µg/mL                 | +/- 9.5854                             |
| 10            | 3-Methylphenol (m-cresol)    | 108-39-4 | STBJ0710    | 99%    | 502.1 µg/mL                 | +/- 9.6213                             |
| 11            | Nitrobenzene                 | 98-95-3  | 10224044    | 99%    | 1,003.2 µg/mL               | +/- 19.2181                            |
| 12            | Isophorone                   | 78-59-1  | MKCC9506    | 99%    | 1,007.0 µg/mL               | +/- 19.2911                            |
| 13            | 2-Nitrophenol                | 88-75-5  | RP230509C   | 99%    | 1,003.4 µg/mL               | +/- 19.2217                            |
| 14            | 2,4-Dimethylphenol           | 105-67-9 | XW5GK       | 99%    | 1,008.1 µg/mL               | +/- 19.3115                            |
| 15            | Bis(2-chloroethoxy)methane   | 111-91-1 | 15174900    | 99%    | 1,002.3 µg/mL               | +/- 19.2001                            |
| 16            | 2,4-Dichlorophenol           | 120-83-2 | BCBZ6787    | 99%    | 1,002.3 µg/mL               | +/- 19.2001                            |

|    |                                               |           |             |     |         |       |     |         |
|----|-----------------------------------------------|-----------|-------------|-----|---------|-------|-----|---------|
| 17 | Naphthalene                                   | 91-20-3   | STBL1057    | 99% | 1,003.6 | µg/mL | +/- | 19.2253 |
| 18 | 4-Chloroaniline                               | 106-47-8  | BCCJ3217    | 99% | 1,005.5 | µg/mL | +/- | 19.2791 |
| 19 | Hexachlorobutadiene                           | 87-68-3   | RP240110CTH | 97% | 1,003.9 | µg/mL | +/- | 19.2316 |
| 20 | 2-Methylnaphthalene                           | 91-57-6   | STBK0259    | 96% | 1,005.1 | µg/mL | +/- | 19.2718 |
| 21 | 4-Chloro-3-methylphenol                       | 59-50-7   | BCCD4461    | 99% | 1,003.8 | µg/mL | +/- | 19.2301 |
| 22 | 1,2,4,5-Tetrachlorobenzene                    | 95-94-3   | MKCT9480    | 99% | 1,000.5 | µg/mL | +/- | 19.1832 |
| 23 | Hexachlorocyclopentadiene                     | 77-47-4   | 099063I14L  | 98% | 1,001.3 | µg/mL | +/- | 19.1811 |
| 24 | 2,4,6-Trichlorophenol                         | 88-06-2   | STBK8870    | 99% | 1,004.1 | µg/mL | +/- | 19.2349 |
| 25 | 2,4,5-Trichlorophenol                         | 95-95-4   | 3YFRE       | 97% | 1,008.6 | µg/mL | +/- | 19.3221 |
| 26 | 2-Chloronaphthalene                           | 91-58-7   | RPN7O       | 99% | 1,002.3 | µg/mL | +/- | 19.2001 |
| 27 | Biphenyl                                      | 92-52-4   | MKCS5928    | 99% | 1,001.3 | µg/mL | +/- | 18.5388 |
| 28 | 2-Nitroaniline                                | 88-74-4   | RP240715RSR | 99% | 1,000.5 | µg/mL | +/- | 19.1832 |
| 29 | Acenaphthylene                                | 208-96-8  | 214935V16F  | 97% | 999.9   | µg/mL | +/- | 19.1561 |
| 30 | Dimethylphthalate                             | 131-11-3  | 358221L17K  | 99% | 1,005.8 | µg/mL | +/- | 19.2672 |
| 31 | 2,6-Dinitrotoluene                            | 606-20-2  | BCCG1833    | 99% | 1,001.2 | µg/mL | +/- | 19.1798 |
| 32 | Acenaphthene                                  | 83-32-9   | MKCR7169    | 99% | 1,000.0 | µg/mL | +/- | 19.1570 |
| 33 | 3-Nitroaniline                                | 99-09-2   | RP240708RSR | 99% | 1,005.5 | µg/mL | +/- | 19.2791 |
| 34 | 2,4-Dinitrophenol                             | 51-28-5   | DR230417RSR | 99% | 1,008.8 | µg/mL | +/- | 19.3259 |
| 35 | Dibenzofuran                                  | 132-64-9  | MKCD9952    | 99% | 1,002.5 | µg/mL | +/- | 18.5619 |
| 36 | 2,4-Dinitrotoluene                            | 121-14-2  | 102869V26E  | 99% | 1,002.5 | µg/mL | +/- | 19.2049 |
| 37 | 4-Nitrophenol                                 | 100-02-7  | RP230627    | 99% | 1,004.4 | µg/mL | +/- | 19.2421 |
| 38 | 2,3,4,6-Tetrachlorophenol                     | 58-90-2   | PR-34476    | 99% | 1,001.5 | µg/mL | +/- | 19.2024 |
| 39 | Fluorene                                      | 86-73-7   | 10241100    | 99% | 1,004.2 | µg/mL | +/- | 19.2373 |
| 40 | 4-Chlorophenyl phenyl ether                   | 7005-72-3 | MKCT7248    | 99% | 1,003.0 | µg/mL | +/- | 19.2145 |
| 41 | Diethylphthalate                              | 84-66-2   | BCCJ6241    | 99% | 1,002.1 | µg/mL | +/- | 19.1978 |
| 42 | 4-Nitroaniline                                | 100-01-6  | RP240510RSR | 99% | 1,005.0 | µg/mL | +/- | 19.2695 |
| 43 | 4,6-Dinitro-2-methylphenol (Dinitro-o-cresol) | 534-52-1  | S240410RSR  | 99% | 1,001.1 | µg/mL | +/- | 19.1786 |
| 44 | Diphenylamine                                 | 122-39-4  | MKCT1512    | 99% | 1,004.5 | µg/mL | +/- | 19.2599 |
| 45 | 4-Bromophenyl phenyl ether                    | 101-55-3  | STBH6361    | 99% | 1,005.9 | µg/mL | +/- | 19.2708 |
| 46 | Hexachlorobenzene                             | 118-74-1  | 15458400    | 99% | 1,009.2 | µg/mL | +/- | 19.3331 |
| 47 | Pentachlorophenol                             | 87-86-5   | RP240411RSR | 99% | 1,008.9 | µg/mL | +/- | 19.3283 |
| 48 | Phenanthrene                                  | 85-01-8   | MKCS5188    | 99% | 1,006.2 | µg/mL | +/- | 19.2756 |
| 49 | Anthracene                                    | 120-12-7  | 101492T18R  | 99% | 1,001.6 | µg/mL | +/- | 19.1882 |
| 50 | Carbazole                                     | 86-74-8   | 15276700    | 99% | 1,004.0 | µg/mL | +/- | 19.2503 |
| 51 | Di-n-butylphthalate                           | 84-74-2   | MKCN4337    | 99% | 1,002.5 | µg/mL | +/- | 19.2049 |
| 52 | Fluoranthene                                  | 206-44-0  | MKCQ4728    | 99% | 1,008.7 | µg/mL | +/- | 19.3235 |

|    |                            |          |              |     |         |       |             |
|----|----------------------------|----------|--------------|-----|---------|-------|-------------|
| 53 | Pyrene                     | 129-00-0 | BCCK2592     | 99% | 1,002.9 | µg/mL | +/- 19.2121 |
| 54 | Benzyl butyl phthalate     | 85-68-7  | X12I018      | 99% | 1,004.6 | µg/mL | +/- 19.2444 |
| 55 | Benz(a)anthracene          | 56-55-3  | I50012022BAA | 99% | 1,009.1 | µg/mL | +/- 19.3307 |
| 56 | Chrysene                   | 218-01-9 | RP240719RSR  | 99% | 1,005.9 | µg/mL | +/- 19.2708 |
| 57 | 3,3'-Dichlorobenzidine     | 91-94-1  | S231019RSR   | 99% | 1,001.5 | µg/mL | +/- 19.2024 |
| 58 | Bis(2-ethylhexyl)phthalate | 117-81-7 | MKCS8065     | 99% | 1,006.3 | µg/mL | +/- 19.2768 |
| 59 | Di-n-octyl phthalate       | 117-84-0 | 15276800     | 99% | 1,008.9 | µg/mL | +/- 19.3283 |
| 60 | Benzo(b)fluoranthene       | 205-99-2 | 022013B      | 99% | 1,006.4 | µg/mL | +/- 19.2792 |
| 61 | Benzo(k)fluoranthene       | 207-08-9 | 012022K      | 99% | 1,001.9 | µg/mL | +/- 19.1942 |
| 62 | Benzo(a)pyrene             | 50-32-8  | O45GL        | 98% | 1,003.9 | µg/mL | +/- 19.2327 |
| 63 | Indeno(1,2,3-cd)pyrene     | 193-39-5 | 12-JKL-118-9 | 97% | 1,003.7 | µg/mL | +/- 19.2281 |
| 64 | Dibenz(a,h)anthracene      | 53-70-3  | 2-ASA-59-1   | 99% | 1,004.2 | µg/mL | +/- 19.2373 |
| 65 | Benzo(g,h,i)perylene       | 191-24-2 | RP240625RSR  | 97% | 1,001.5 | µg/mL | +/- 19.1863 |

\* 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.







**Certified Reference Material CRM**



**CERTIFIED WEIGHT REPORT**

**Part Number:** 90494  
**Lot Number:** 061323  
**Description:** 1-Methylnaphthalene

**Solvent(s):** Lot#  
Methylene chloride C21F09CAS0000DCM

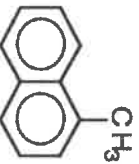
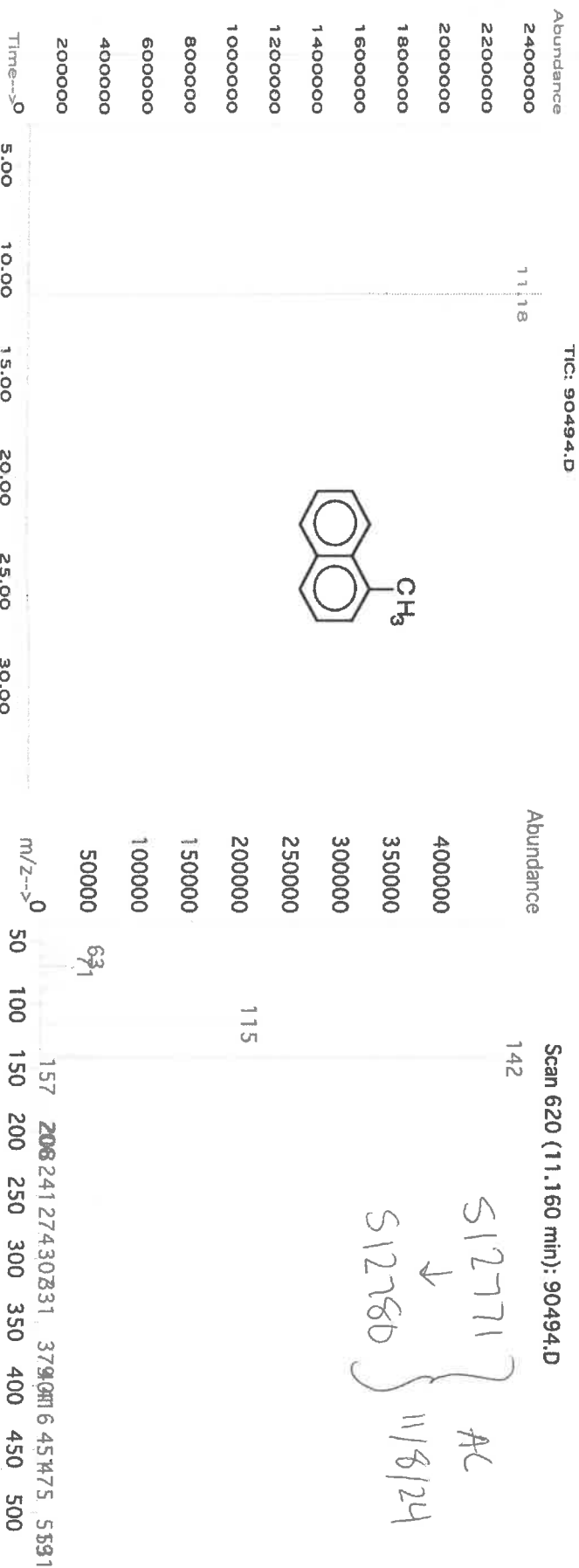
**Expiration Date:** 061328  
**Recommended Storage:** Refrigerate (4 °C)  
**Nominal Concentration (µg/mL):** 2000  
**NIST Test ID#:** 6UTB  
**Weight(s) shown below were combined and diluted to (mL):** 100.0  
**SE-05 Balance Uncertainty:** 0.031  
**Flask Uncertainty:**

|                                         |        |
|-----------------------------------------|--------|
| Formulated By: <i>Praeshant Chauhan</i> | 061323 |
| Reviewed By: <i>Pedro L. Farias</i>     | 061323 |
| DATE                                    |        |

| Compound | RM# | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Target Weight(g) | Actual Weight(g) | Actual Conc (µg/mL) | Expanded Uncertainty (±) (µg/mL) | CAS# | OSHA PEL (TWA) | LD50 |
|----------|-----|------------|----------------------|------------|--------------------|------------------|------------------|---------------------|----------------------------------|------|----------------|------|
|----------|-----|------------|----------------------|------------|--------------------|------------------|------------------|---------------------|----------------------------------|------|----------------|------|

1. 1-Methylnaphthalene 313 04413BX 2000 98 0.2 0.20417 0.20430 2001.2 8.3 90-12-0 N/A or: rat 1840mg/kg

**Method:** GC8MSD-3.M; Column: SPB-5 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 50°C (1min.), Temp 2 = 300°C (9min.), Rate = 10°C/min., Injector B = 200°C, Detector B = 275°C, Split Ratio = 100:1, Scan Rate = 2. Analysis performed by: Gina McLane.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (±) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Results," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).



110 Benner Circle  
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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.: 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:**

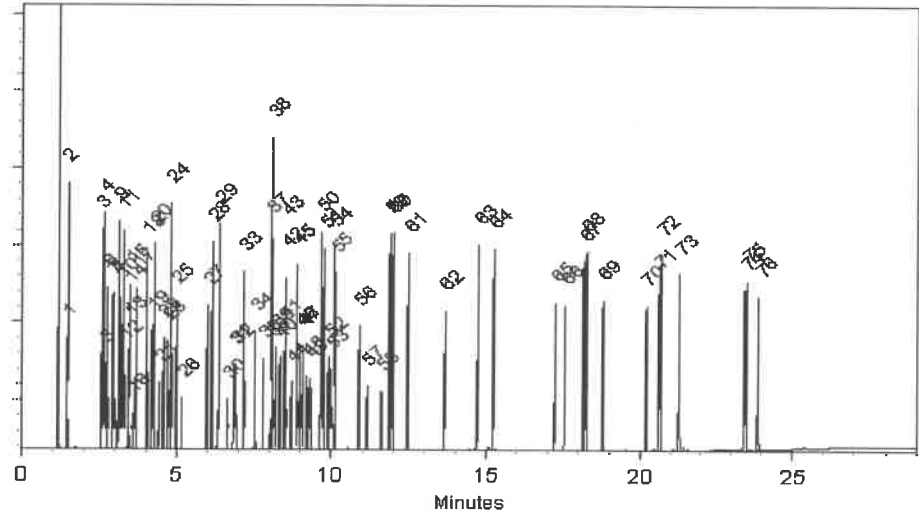
FID

**Split Vent:**

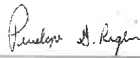
100 ml/min.

**Inj. Vol**

1µl

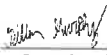


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

  
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. : 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:**

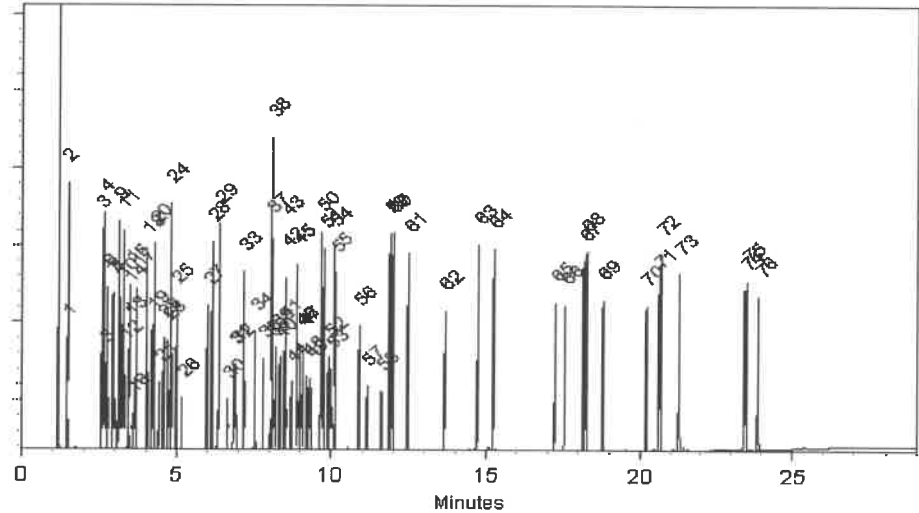
FID

**Split Vent:**

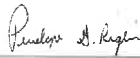
100 ml/min.

**Inj. Vol**

1µl

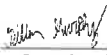


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

  
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. : 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

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↓  
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:**

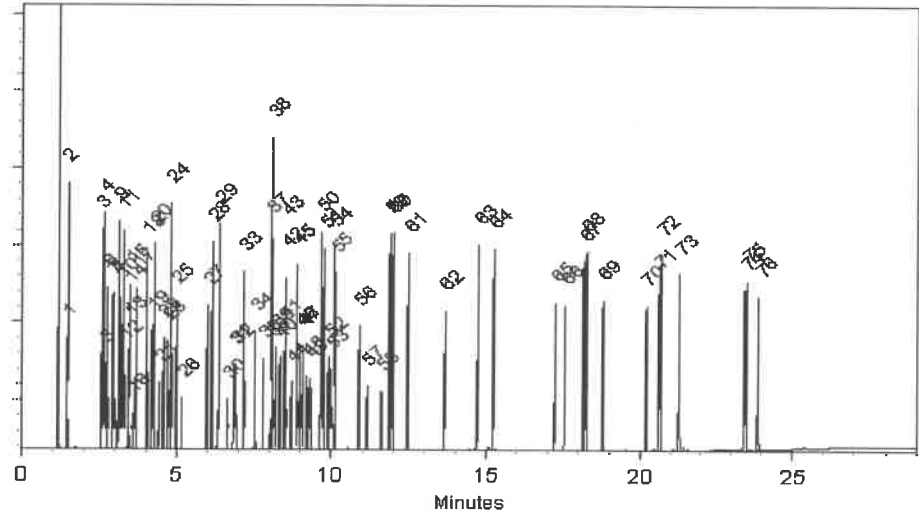
FID

**Split Vent:**

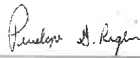
100 ml/min.

**Inj. Vol**

1µl

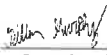


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

  
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. : 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

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↓  
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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:**

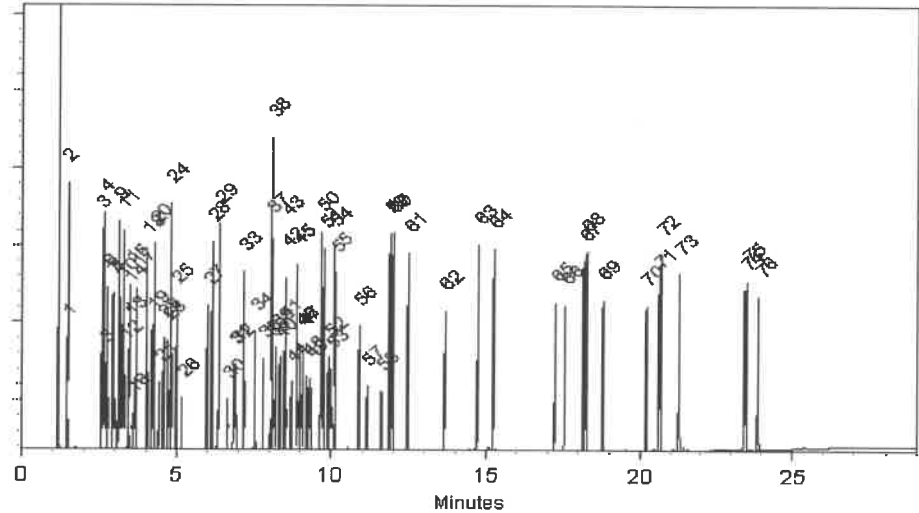
FID

**Split Vent:**

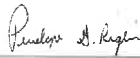
100 ml/min.

**Inj. Vol**

1µl

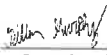


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

  
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. : 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

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↓  
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:**

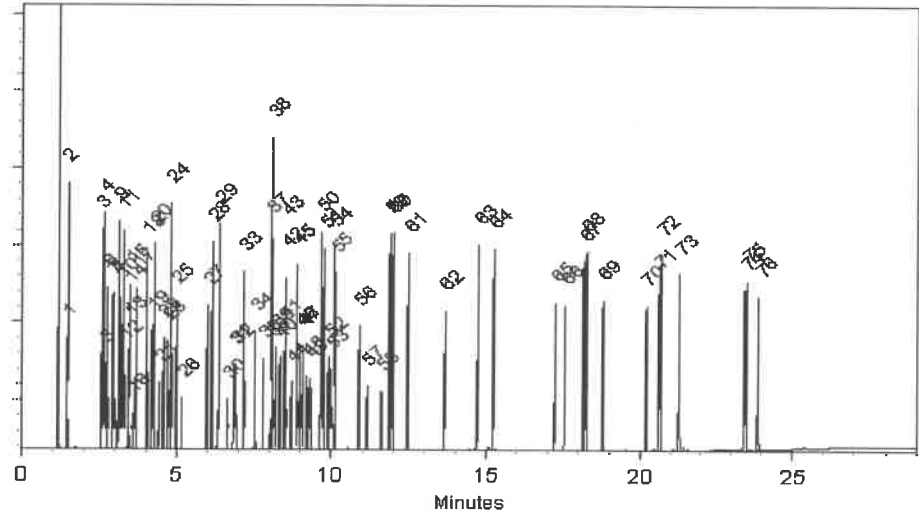
FID

**Split Vent:**

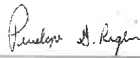
100 ml/min.

**Inj. Vol**

1µl

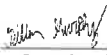


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

  
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. : 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:**

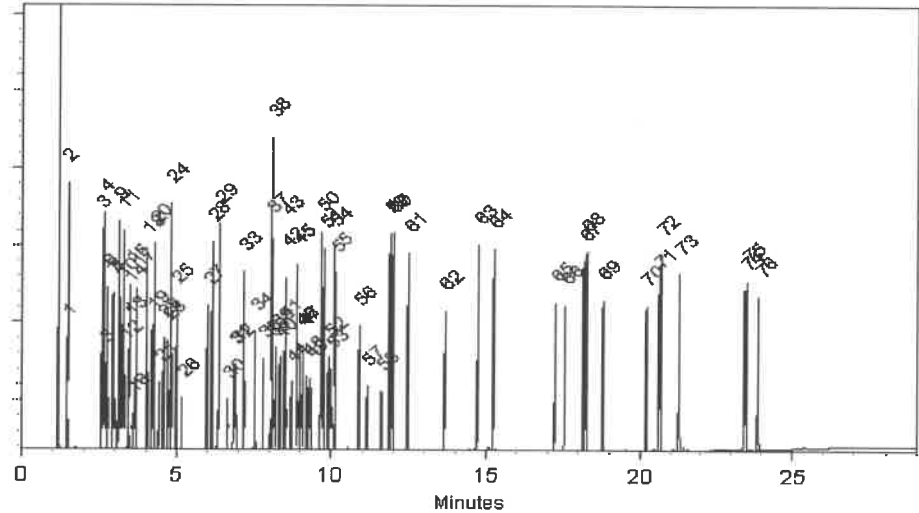
FID

**Split Vent:**

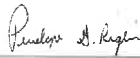
100 ml/min.

**Inj. Vol**

1µl

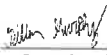


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

  
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  
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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

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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:**

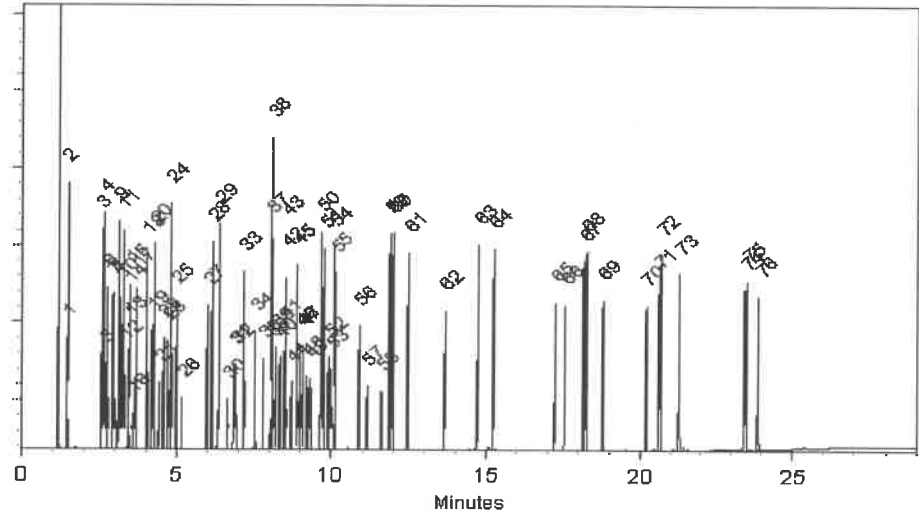
FID

**Split Vent:**

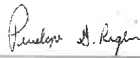
100 ml/min.

**Inj. Vol**

1µl

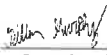


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

  
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



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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

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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:**

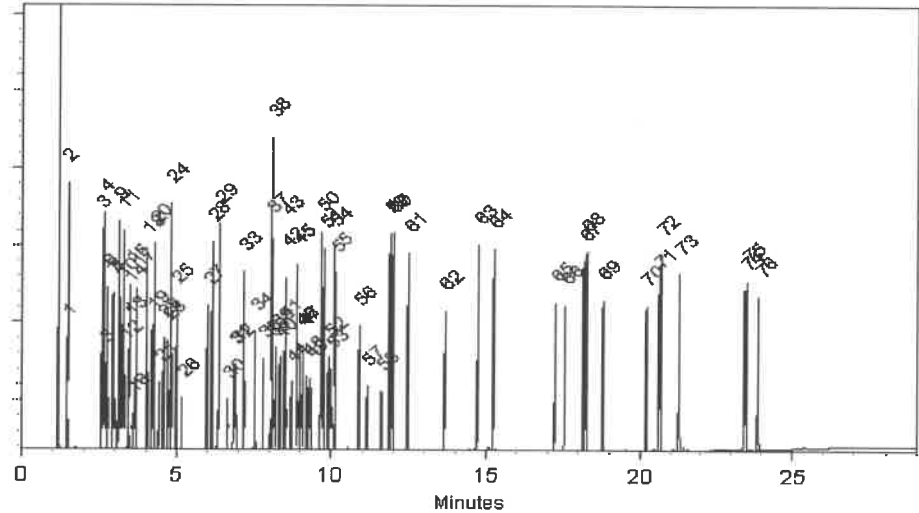
FID

**Split Vent:**

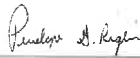
100 ml/min.

**Inj. Vol**

1µl

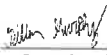


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

  
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  
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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:**

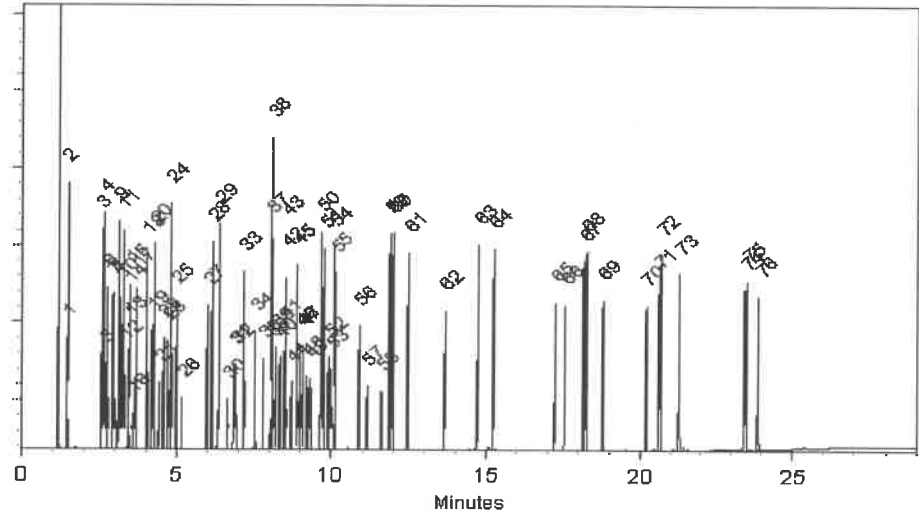
FID

**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%

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30m x 0.25mm x 0.25µm  
Rtx-5 (cat.#10223)

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hydrogen-constant flow 1.8 mL/min.

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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:**

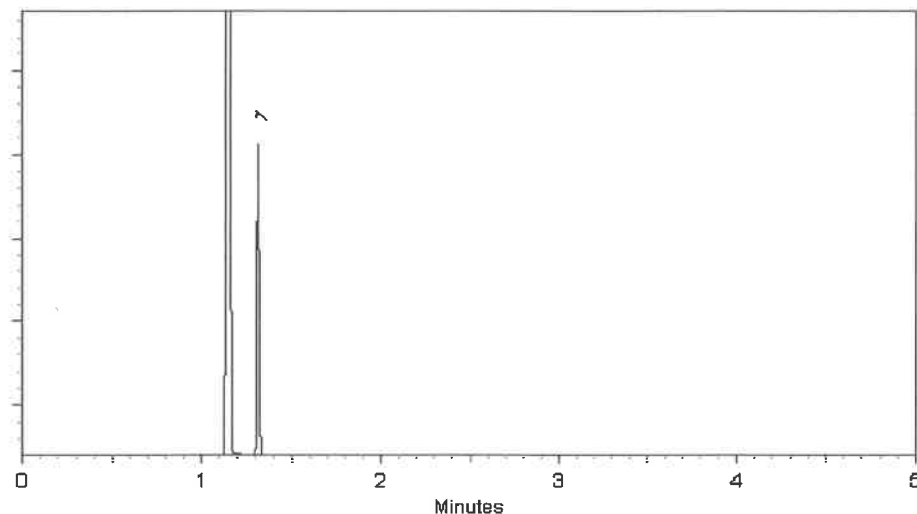
FID

**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  
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513118 } RC/  
↓  
513147 } 5/20/25.

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|---------------|-------------|----------|----------|--------|-----------------------------|----------------------------------------|
| 1             | 1,4-Dioxane | 123-91-1 | SHBQ1693 | 99%    | 2,002.4 µg/mL               | +/- 24.9202                            |

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**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

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30m x 0.25mm x 0.25µm  
Rtx-5 (cat.#10223)

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hydrogen-constant flow 1.8 mL/min.

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80°C (hold 0.1 min.) to 330°C  
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**Inj. Temp:**

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**Det. Temp:**

340°C

**Det. Type:**

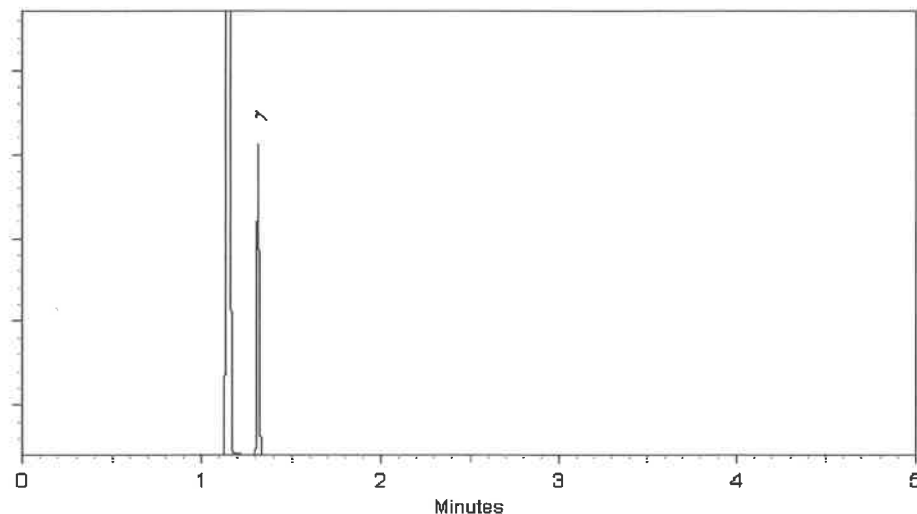
FID

**Split Vent:**

100 ml/min.

**Inj. Vol**

1µl



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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  
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# Certificate of Analysis

*chromatographic plus*



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513118 } RC/  
↓  
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**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

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30m x 0.25mm x 0.25µm  
Rtx-5 (cat.#10223)

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hydrogen-constant flow 1.8 mL/min.

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@ 9.6°C/min. (hold 2.86 min.)

**Inj. Temp:**

250°C

**Det. Temp:**

340°C

**Det. Type:**

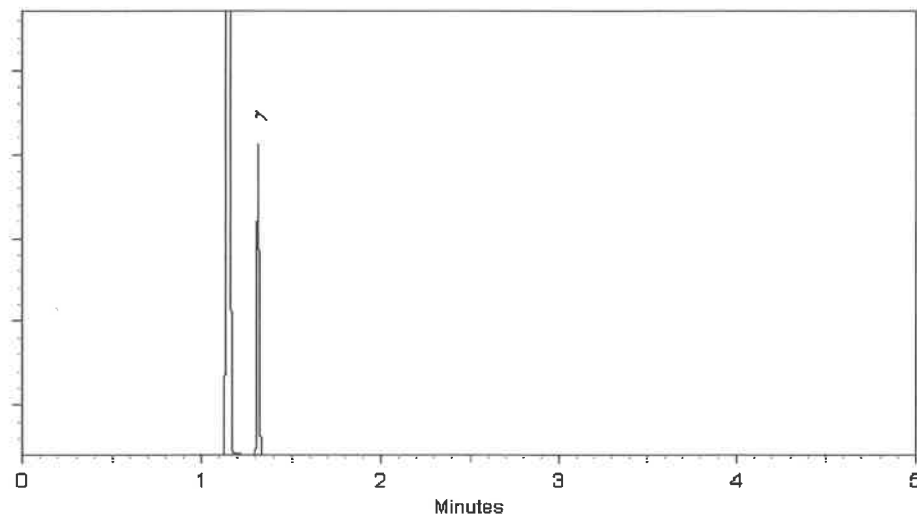
FID

**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  
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Certificate #FM 80397



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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

gravimetric



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 555871 **Lot No.:** A0226283

**Description :** Custom 4-Nitrophenol Standard  
Custom 4-Nitrophenol Standard 25,000µg/mL, Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** June 30, 2028 **Storage:** 10°C or colder

**Ship:** Ambient

513158 } RC/  
↓  
513167 } 6/4/25

### CERTIFIED VALUES

| Component # | Compound      | CAS #    | Lot #         | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|-------------|---------------|----------|---------------|--------|-----------------------------|----------------------------------------|
| 1           | 4-Nitrophenol | 100-02-7 | 20241120-1-AN | 99%    | 25,192.0 µg/mL              | +/- 783.0517                           |

**Solvent:** Methanol  
**CAS #** 67-56-1  
**Purity** 99%

Morgan Craighead - Mix Technician

**Date Mixed:** 02-Jun-2025

**Balance:** C322230531

REVIEWED  
By: [Signature] Murphy at 11:21 am, Jan 05, 2025

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## CERTIFIED REFERENCE MATERIAL

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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.:** A0224359

**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 :** March 31, 2031 **Storage:** 10°C or colder

**Handling:** Sonication required. Mix is photosensitive. **Ship:** Ambient

S13168  
↓  
S13197 } AC  
6/9/25

### 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%    | 2,000.0 µg/mL               | +/- 90.0812                            |
| 2             | Naphthalene-d8         | 1146-65-2  | M-2180   | 99%    | 2,000.8 µg/mL               | +/- 90.1187                            |
| 3             | Acenaphthene-d10       | 15067-26-2 | PR-33507 | 99%    | 2,000.8 µg/mL               | +/- 90.1187                            |
| 4             | Phenanthrene-d10       | 1517-22-2  | PR-34099 | 99%    | 2,000.0 µg/mL               | +/- 90.0812                            |
| 5             | Chrysene-d12           | 1719-03-5  | PR-33506 | 99%    | 2,000.8 µg/mL               | +/- 90.1187                            |
| 6             | Perylene-d12           | 1520-96-3  | PR-33205 | 99%    | 2,000.0 µg/mL               | +/- 90.0812                            |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%



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# 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.:** A0224359

**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 :** March 31, 2031 **Storage:** 10°C or colder

**Handling:** Sonication required. Mix is photosensitive. **Ship:** Ambient

S13168  
↓  
S13197 } AC  
6/9/25

### 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%    | 2,000.0 µg/mL               | +/- 90.0812                            |
| 2             | Naphthalene-d8         | 1146-65-2  | M-2180   | 99%    | 2,000.8 µg/mL               | +/- 90.1187                            |
| 3             | Acenaphthene-d10       | 15067-26-2 | PR-33507 | 99%    | 2,000.8 µg/mL               | +/- 90.1187                            |
| 4             | Phenanthrene-d10       | 1517-22-2  | PR-34099 | 99%    | 2,000.0 µg/mL               | +/- 90.0812                            |
| 5             | Chrysene-d12           | 1719-03-5  | PR-33506 | 99%    | 2,000.8 µg/mL               | +/- 90.1187                            |
| 6             | Perylene-d12           | 1520-96-3  | PR-33205 | 99%    | 2,000.0 µg/mL               | +/- 90.0812                            |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%



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**Catalog No. :** 555868 **Lot No.:** A0226493

**Description :** Custom Benzidine Standard  
Custom Benzidine Standard 25,000µg/mL, Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** June 30, 2028 **Storage:** 10°C or colder

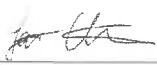
**Handling:** Contains carcinogen/reproductive toxin. **Ship:** Ambient

S13198  
↓  
S13207 } AC  
6/11/25

**CERTIFIED VALUES**

| Component # | Compound  | CAS #   | Lot #      | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|-------------|-----------|---------|------------|--------|-----------------------------|----------------------------------------|
| 1           | Benzidine | 92-87-5 | S250227ECS | 99%    | 25,004.0 µg/mL              | +/- 495.8040                           |

**Solvent:** Methanol  
**CAS #** 67-56-1  
**Purity** 99%

  
Laith Clemente - Operations Technician I

**Date Mixed:** 09-Jun-2025

**Balance:** 1122030677



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Certificate #FM 80397





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chromatographic plus



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**Catalog No. :** 31879 **Lot No.:** A0221395

**Description :** Benzoic Acid Mix

Benzoic Acid 2000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** January 31, 2029 **Storage:** 10°C or colder

**Ship:** Ambient

S13214 } AC  
↓  
S13218 } 7/10/25

**CERTIFIED VALUES**

| Elution Order | Compound     | CAS #   | Lot #    | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|--------------|---------|----------|--------|-----------------------------|----------------------------------------|
| 1             | Benzoic acid | 65-85-0 | MKCR2694 | 99%    | 2,002.2 µg/mL               | +/- 60.5426                            |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%



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### chromatographic



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Catalog No. : 582978

Lot No.: A0228192

Description : Custom Calibration Standard - C8

Custom Calibration Standard - C8 2,000µg/mL, Methylene chloride,  
1mL/ampul

Container Size : 2 mL

Pkg Amt: > 1 mL

Expiration Date : July 31, 2028

Storage: 0°C or colder

Ship: Ambient

513229 } RC/  
↓  
513238 } 8/1/25

### CERTIFIED VALUES

| Elution Order | Compound               | CAS #    | Lot #      | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|------------------------|----------|------------|--------|-----------------------------|----------------------------------------|
| 1             | N-Nitrosodimethylamine | 62-75-9  | S241226RSR | 99%    | 2,000.0 µg/mL               | +/- 35.7537                            |
| 2             | Aniline                | 62-53-3  | X22F726    | 99%    | 2,002.5 µg/mL               | +/- 35.7984                            |
| 3             | 1,3-Dichlorobenzene    | 541-73-1 | BCCD5315   | 99%    | 2,005.0 µg/mL               | +/- 35.8431                            |
| 4             | 1,4-Dichlorobenzene    | 106-46-7 | MKBS7929V  | 99%    | 2,005.0 µg/mL               | +/- 35.8431                            |
| 5             | Benzyl alcohol         | 100-51-6 | 094986W07G | 99%    | 2,015.0 µg/mL               | +/- 36.0218                            |
| 6             | 1,2-Dichlorobenzene    | 95-50-1  | SHBR4446   | 99%    | 2,015.0 µg/mL               | +/- 36.0218                            |
| 7             | 1,2,4-Trichlorobenzene | 120-82-1 | SHBR1701   | 99%    | 2,020.0 µg/mL               | +/- 36.1112                            |
| 8             | Azobenzene             | 103-33-3 | BCCL3292   | 99%    | 2,005.0 µg/mL               | +/- 35.8431                            |

\* 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:**

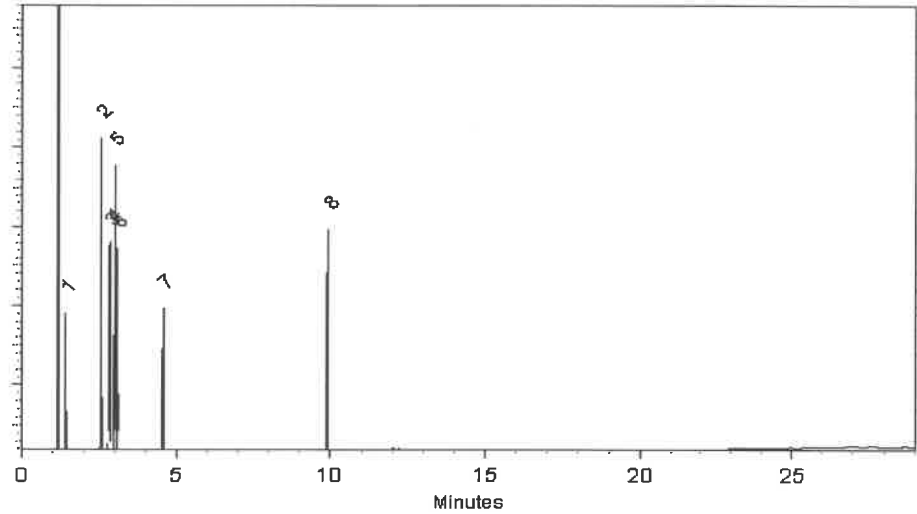
FID

**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.

*Wilner Torres*  
**Wilner Torres - Operation Tech I**

**Date Mixed:** 27-Jul-2025

**Balance Serial #** B345965662

*Jennifer Pollino*  
**Jennifer Pollino - Operations Tech III - ARM QC**

**Date Passed:** 30-Jul-2025

**REVIEWED**  
By: *Wilner Torres* at 10:00 am, Jul 30, 2025

**Manufactured under Restek's ISO 9001:2015  
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Certificate #FM 80397**



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## FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 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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## 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

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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  
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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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**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  
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## 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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## 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.: A0228494

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 : August 31, 2027

Storage: 10°C or colder

Ship: Ambient

513269 } RC1  
↓  
513298 } 08/06/25

### 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%    | 1,002.0 µg/mL               | +/- 29.453715                          |
| 2           | Acetophenone               | 98-86-2  | STBH8205    | 99%    | 1,001.0 µg/mL               | +/- 29.424320                          |
| 3           | Benzaldehyde               | 100-52-7 | RD250319RSR | 99%    | 1,003.0 µg/mL               | +/- 29.483110                          |
| 4           | Benzoic acid               | 65-85-0  | MKCX1578    | 99%    | 1,001.0 µg/mL               | +/- 29.424320                          |
| 5           | Biphenyl                   | 92-52-4  | MKCS5928    | 99%    | 1,002.0 µg/mL               | +/- 29.453715                          |

Solvent: Methylene chloride  
CAS # 75-09-2  
Purity 99%

Laith Clemente - Operations Technician I

Date Mixed: 04-Aug-2025

Balance: 1128360905

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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**Catalog No. :** 555869 **Lot No.:** A0201702

**Description :** Custom Hexachlorocyclopentadiene Standard

Custom Hexachlorocyclopentadiene 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

513148  
↓  
513157 } RC  
11/13/23

CERTIFIED VALUES

| Component # | Compound                  | CAS #   | Lot #      | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|-------------|---------------------------|---------|------------|--------|-----------------------------|----------------------------------------|
| 1           | Hexachlorocyclopentadiene | 77-47-4 | 099063P13G | 99%    | 25,244.0 µg/mL              | +/- 450.6896                           |

**Solvent:** Methanol  
**CAS #** 67-56-1  
**Purity** 99%

Brittany Federinko - Operations Tech I

**Date Mixed:** 05-Sep-2023 **Balance:** B707717271

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397



# SHIPPING DOCUMENTS

## USEPA

DateShipped: 9/23/2025

CarrierName: Hand-Delivered

AirbillNo:

## CHAIN OF CUSTODY RECORD

Case #:

Contact Name: Leticia Campiglia

**Contact Phone: 732-570-4993**

No: 2-092325-0004-0049-02

Cooler #: 2 of 2

Lab: Alliance Technical Group LLC (non-CLP)

Lab Phone: 908-789-8900

[illegible]

9/23/25

Special Instructions: RFP # 916. Please email results to [leticia.campiglia@westonsolutions.com](mailto:leticia.campiglia@westonsolutions.com), [smita.sumbaly@westonsolutions.com](mailto:smita.sumbaly@westonsolutions.com), [ronan.clynch@westonsolutions.com](mailto:ronan.clynch@westonsolutions.com) and [michael.lang@westonsolutions.com](mailto:michael.lang@westonsolutions.com).  
7 day preliminary TAT.

**SAMPLES TRANSFERRED FROM**

CHAIN OF CUSTODY #

| Items/Reason | Relinquished by (Signature and Organization)                                                             | Date/Time       | Received by (Signature and Organization)                                              | Date/Time       | Sample Condition Upon Receipt                                    |
|--------------|----------------------------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------|-----------------|------------------------------------------------------------------|
| All samples  |  / START VI<br>Weston | 9/23/25<br>1700 |  | 9-23-25<br>1700 | 1.3°C<br>In situ #1<br>Outcrop scale intact<br>Temp. BLM present |
|              |                                                                                                          |                 |                                                                                       |                 |                                                                  |

### 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           |

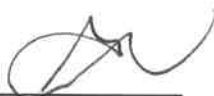
## LOGIN REPORT/SAMPLE TRANSFER

|                                              |               |                                                |                                       |
|----------------------------------------------|---------------|------------------------------------------------|---------------------------------------|
| <b>Order ID :</b> Q3178                      | <b>ROYF02</b> | <b>Order Date :</b> 9/24/2025 10:59:00 AM      | <b>Project Mgr :</b>                  |
| <b>Client Name :</b> Weston Solutions, Inc.  |               | <b>Project Name :</b> RFP 916                  | <b>Report Type :</b> Level 4          |
| <b>Client Contact :</b> Smita Sumbaly        |               | <b>Receive DateTime :</b> 9/23/2025 5:00:00 PM | <b>EDD Type :</b> Equis Region2(MEDD) |
| <b>Invoice Name :</b> Weston Solutions, Inc. |               | <b>Purchase Order :</b>                        | <b>Hard Copy Date :</b>               |
| <b>Invoice Contact :</b> Smita Sumbaly       |               |                                                | <b>Date Signoff :</b>                 |

| LAB ID   | CLIENT ID      | MATRIX | SAMPLE DATE | SAMPLE TIME | TEST          | TEST GROUP | METHOD | FAX DATE    | DUE DATES |
|----------|----------------|--------|-------------|-------------|---------------|------------|--------|-------------|-----------|
| Q3178-01 | EME-TS14-01    | Solid  | 09/23/2025  | 12:45       |               |            |        |             |           |
|          |                |        |             |             | VOC-TCLVOA-10 |            | 8260D  | 5 Bus. Days |           |
| Q3178-02 | EME-TS14-01MS  | Solid  | 09/23/2025  | 12:45       |               |            |        |             |           |
|          |                |        |             |             | VOC-TCLVOA-10 |            | 8260D  | 5 Bus. Days |           |
| Q3178-03 | EME-TS14-01MSD | Solid  | 09/23/2025  | 12:45       |               |            |        |             |           |
|          |                |        |             |             | VOC-TCLVOA-10 |            | 8260D  | 5 Bus. Days |           |

Relinquished By :

Date / Time :

  
9/24/25 1150

Received By :

Date / Time :

  
09/24/25

Storage Area : VOA Refridgerator Room

11:58