

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF082124\  
 Data File : BF139104.D  
 Acq On : 21 Aug 2024 16:20  
 Operator : RC/JU  
 Sample : P3660-01  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 S-901-J-0-0.5-081624

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 08/22/2024  
 Supervised By :mohammad ahmed 08/23/2024

Quant Time: Aug 21 16:51:28 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF082024.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Aug 21 01:25:05 2024  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| -----                       |        |      |          |        |       |          |
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 6.898  | 152  | 87908    | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.175  | 136  | 325479   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10        | 9.933  | 164  | 163105   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.416 | 188  | 214328   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12            | 14.051 | 240  | 178213   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12            | 15.533 | 264  | 164701   | 20.000 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.510  | 112  | 428584   | 75.008 | ng    | 0.00     |
| 7) Phenol-d6                | 6.516  | 99   | 564224   | 76.422 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.457  | 82   | 361910   | 64.792 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.716 | 330  | 90129    | 61.040 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.251  | 172  | 477926   | 46.490 | ng    | 0.00     |
| 79) Terphenyl-d14           | 13.004 | 244  | 319861   | 29.781 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| Target Compounds            |        |      |          |        |       | Qvalue   |
| 71) Phenanthrene            | 11.439 | 178  | 26628    | 2.444  | ng    | 98       |
| 75) Fluoranthene            | 12.627 | 202  | 72072    | 6.198  | ng    | 99       |
| 78) Pyrene                  | 12.857 | 202  | 62856    | 4.226  | ng    | 98       |
| 81) Benzo(a)anthracene      | 14.045 | 228  | 47350    | 4.042  | ng    | 97       |
| 83) Chrysene                | 14.080 | 228  | 39934    | 3.761  | ng    | 96       |
| 88) Benzo(b)fluoranthene    | 15.098 | 252  | 59332m   | 5.526  | ng    |          |
| 89) Benzo(k)fluoranthene    | 15.115 | 252  | 18697m   | 2.091  | ng    |          |
| 90) Benzo(a)pyrene          | 15.462 | 252  | 35245    | 4.154  | ng    | 96       |
| 92) Benzo(g,h,i)perylene    | 17.445 | 276  | 15123    | 4.370  | ng #  | 92       |
| -----                       |        |      |          |        |       |          |

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

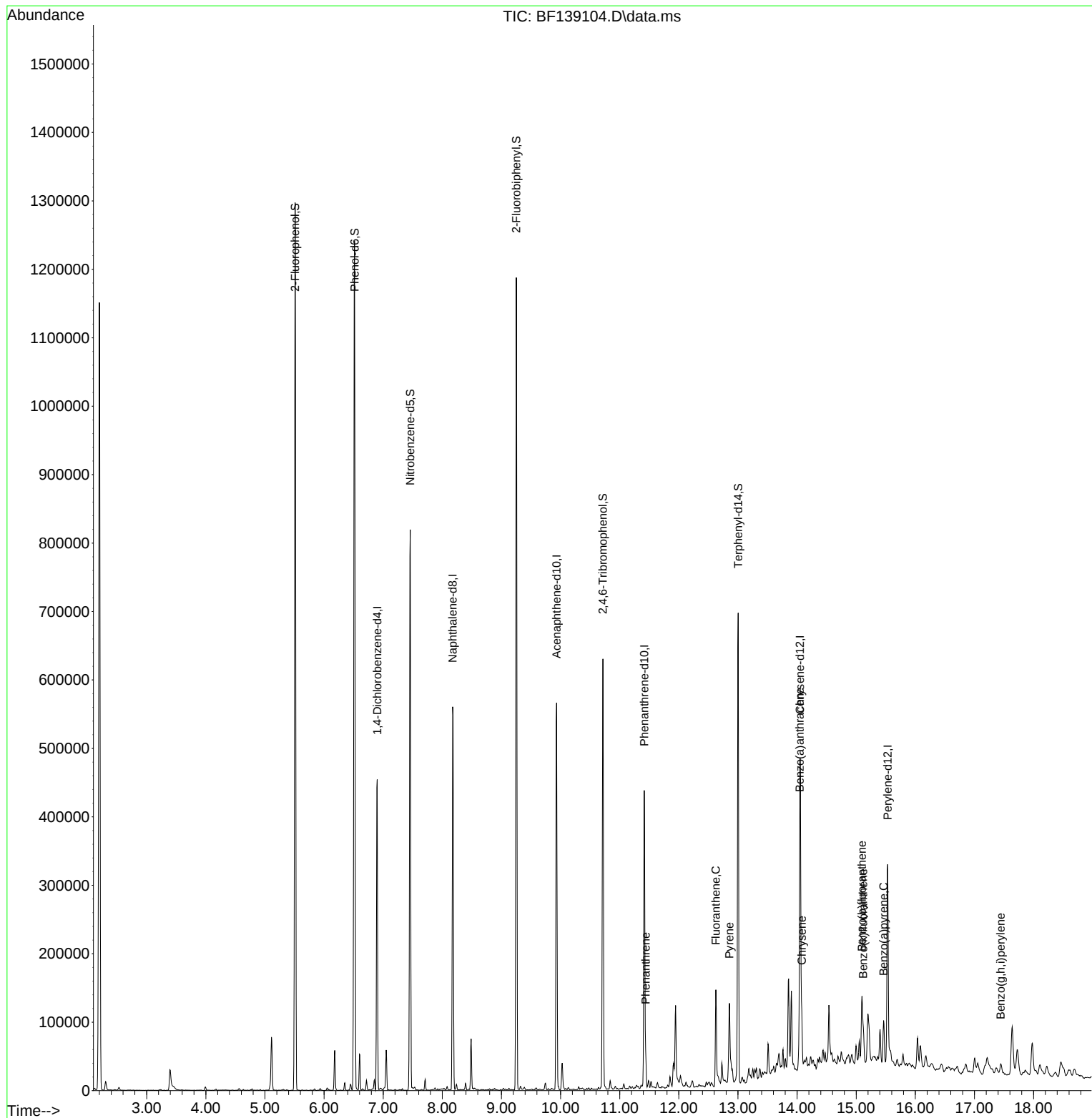
Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF082124\  
Data File : BF139104.D  
Acq On : 21 Aug 2024 16:20  
Operator : RC/JU  
Sample : P3660-01  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

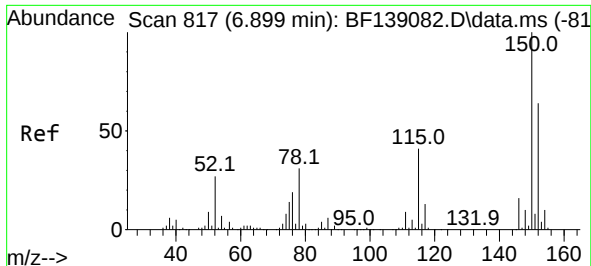
Instrument :  
BNA\_F  
ClientSampleId :  
S-901-J-0-0.5-081624

Quant Time: Aug 21 16:51:28 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF082024.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Aug 21 01:25:05 2024  
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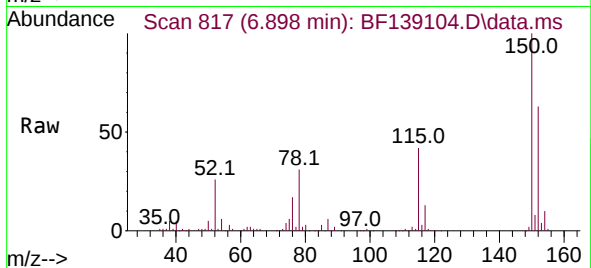
Reviewed By :Yogesh Patel 08/22/2024  
Supervised By :mohammad ahmed 08/23/2024





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.898 min Scan# 817  
Delta R.T. -0.001 min  
Lab File: BF139104.D  
Acq: 21 Aug 2024 16:20

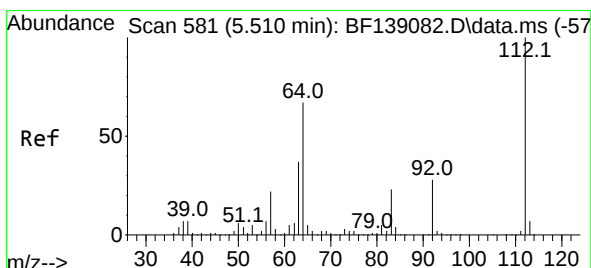
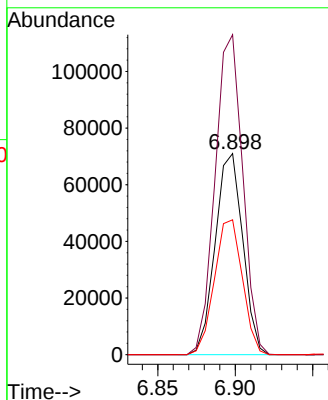
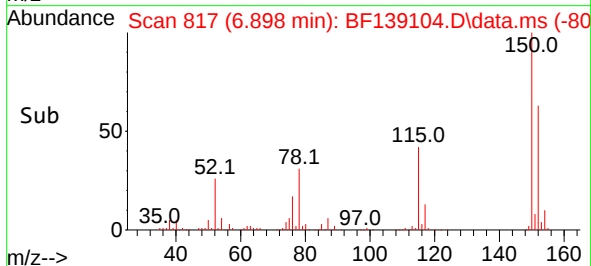
Instrument :  
BNA\_F  
ClientSampleId :  
S-901-J-0-0.5-081624



Tgt Ion:152 Resp: 87908  
Ion Ratio Lower Upper  
152 100  
150 159.1 125.1 187.7  
115 67.1 51.8 77.6

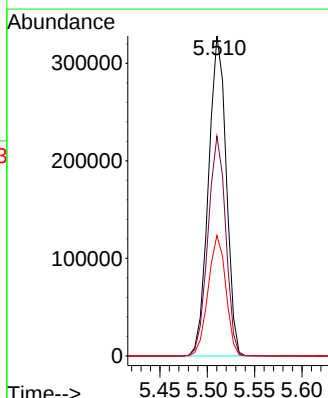
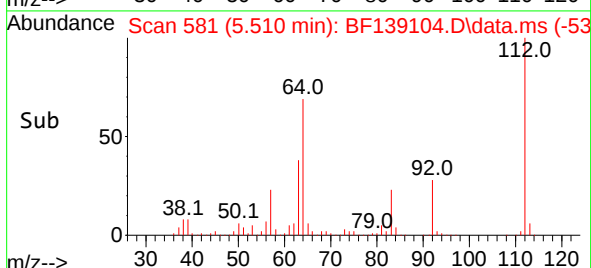
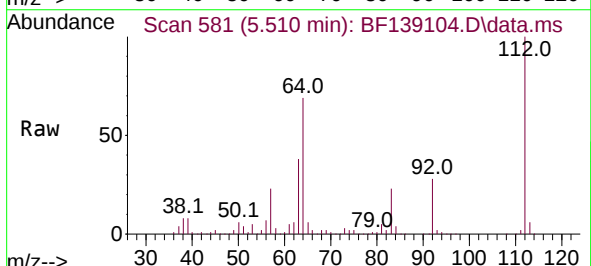
Manual Integrations  
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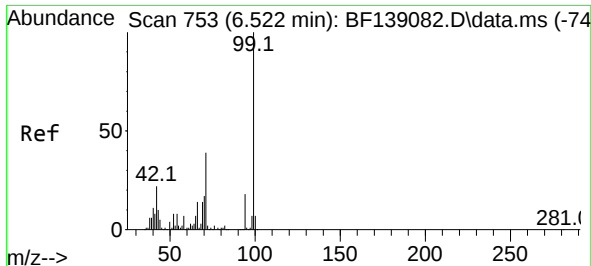
Reviewed By :Yogesh Patel 08/22/2024  
Supervised By :mohammad ahmed 08/23/2024



#5  
2-Fluorophenol  
Concen: 75.008 ng  
RT: 5.510 min Scan# 581  
Delta R.T. -0.000 min  
Lab File: BF139104.D  
Acq: 21 Aug 2024 16:20

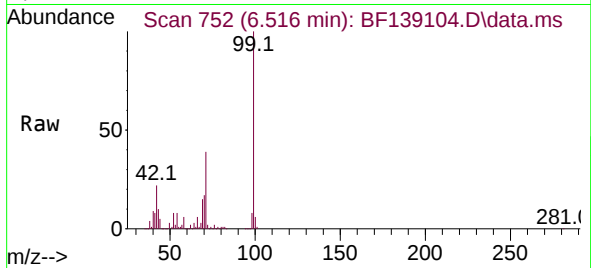
Tgt Ion:112 Resp: 428584  
Ion Ratio Lower Upper  
112 100  
64 68.7 53.8 80.6  
63 37.6 29.4 44.2





#7  
Phenol-d6  
Concen: 76.422 ng  
RT: 6.516 min Scan# 71  
Delta R.T. -0.006 min  
Lab File: BF139104.D  
Acq: 21 Aug 2024 16:20

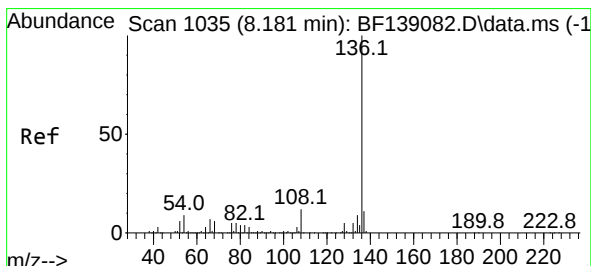
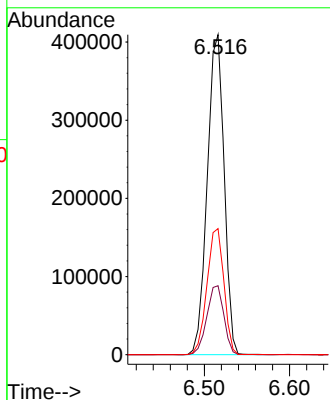
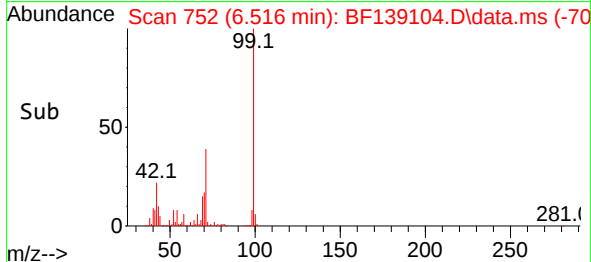
Instrument :  
BNA\_F  
ClientSampleId :  
S-901-J-0-0.5-081624



Tgt Ion: 99 Resp: 564224  
Ion Ratio Lower Upper  
99 100  
42 21.5 17.4 26.2  
71 39.4 31.2 46.8

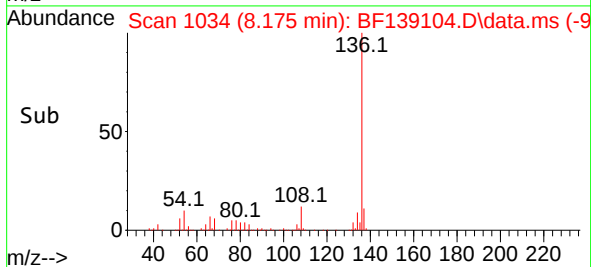
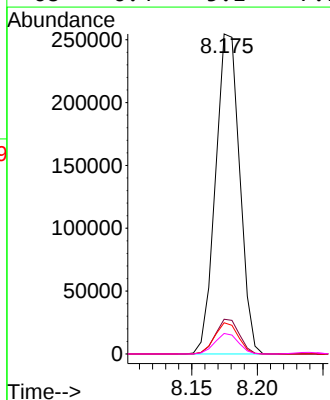
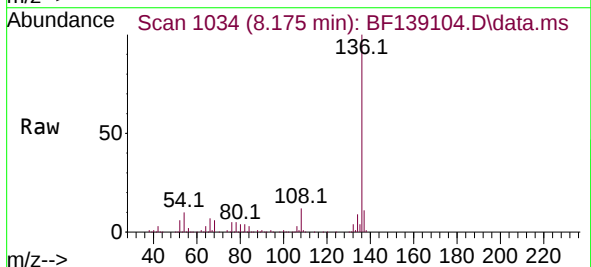
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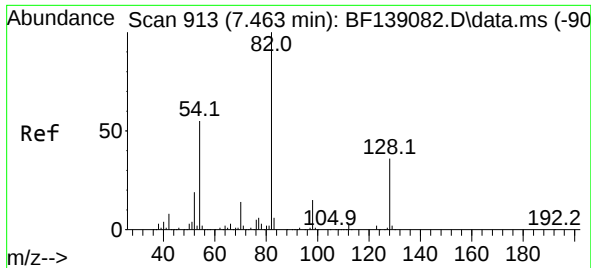
Reviewed By :Yogesh Patel 08/22/2024  
Supervised By :mohammad ahmed 08/23/2024



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.175 min Scan# 1034  
Delta R.T. -0.006 min  
Lab File: BF139104.D  
Acq: 21 Aug 2024 16:20

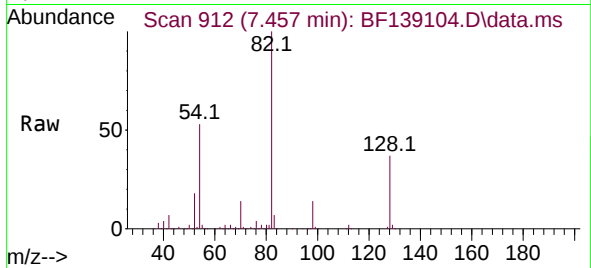
Tgt Ion:136 Resp: 325479  
Ion Ratio Lower Upper  
136 100  
137 10.8 8.7 13.1  
54 9.8 7.6 11.4  
68 6.4 5.1 7.7





#23  
Nitrobenzene-d5  
Concen: 64.792 ng  
RT: 7.457 min Scan# 913  
Delta R.T. -0.006 min  
Lab File: BF139104.D  
Acq: 21 Aug 2024 16:20

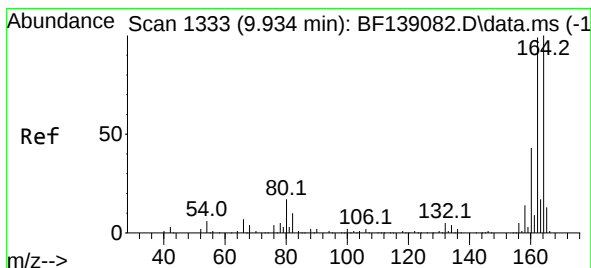
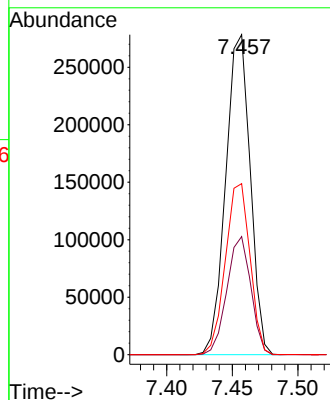
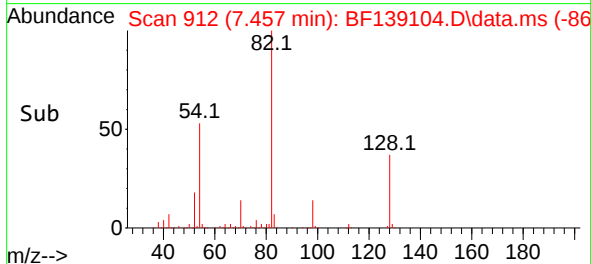
Instrument :  
BNA\_F  
ClientSampleId :  
S-901-J-0-0.5-081624



Tgt Ion: 82 Resp: 361910  
Ion Ratio Lower Upper  
82 100  
128 36.9 29.0 43.4  
54 53.4 43.4 65.2

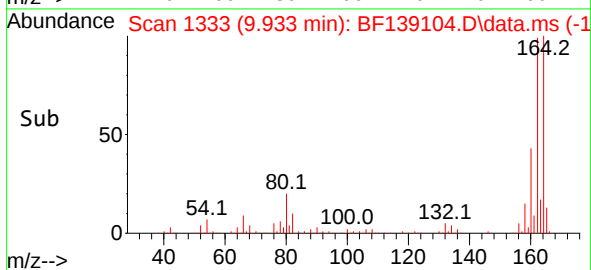
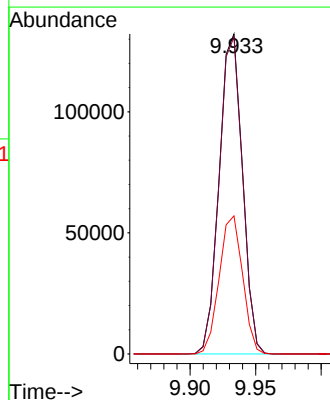
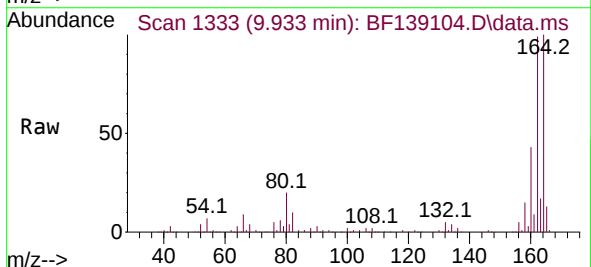
Manual Integrations  
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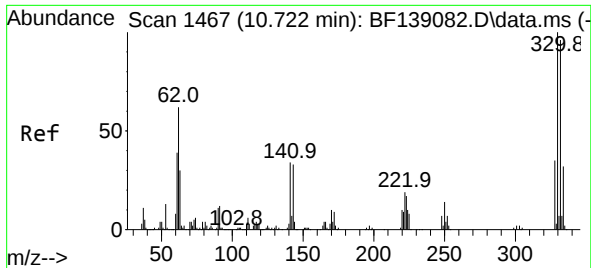
Reviewed By :Yogesh Patel 08/22/2024  
Supervised By :mohammad ahmed 08/23/2024



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.933 min Scan# 1333  
Delta R.T. -0.001 min  
Lab File: BF139104.D  
Acq: 21 Aug 2024 16:20

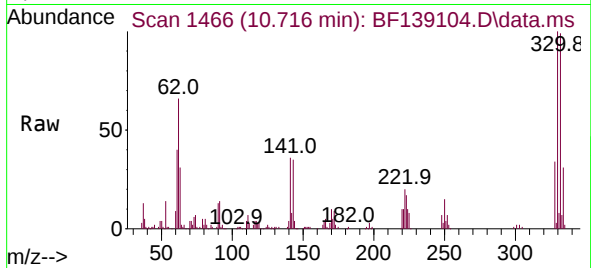
Tgt Ion:164 Resp: 163105  
Ion Ratio Lower Upper  
164 100  
162 99.0 79.5 119.3  
160 43.2 34.5 51.7





#42  
2,4,6-Tribromophenol  
Concen: 61.040 ng  
RT: 10.716 min Scan# 1466  
Delta R.T. -0.006 min  
Lab File: BF139104.D  
Acq: 21 Aug 2024 16:20

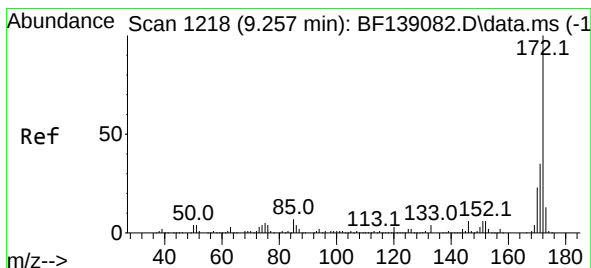
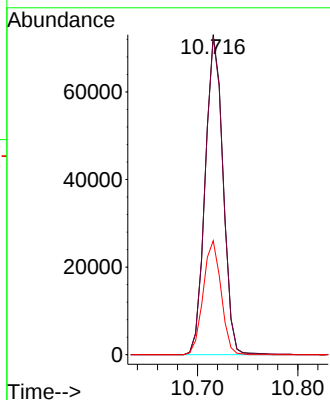
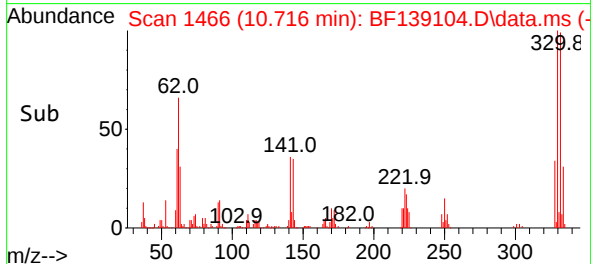
Instrument :  
BNA\_F  
ClientSampleId :  
S-901-J-0-0.5-081624



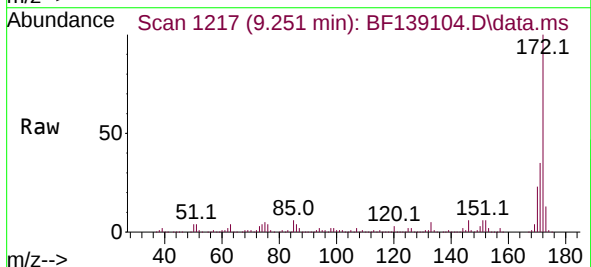
Tgt Ion: 330 Resp: 90129  
Ion Ratio Lower Upper  
330 100  
332 99.7 77.0 115.6  
141 35.6 27.5 41.3

Manual Integrations  
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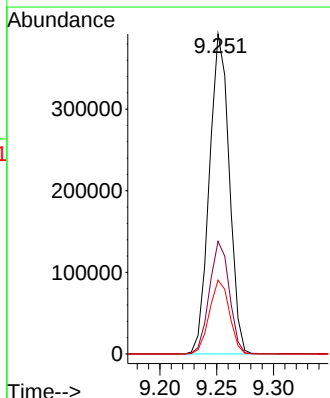
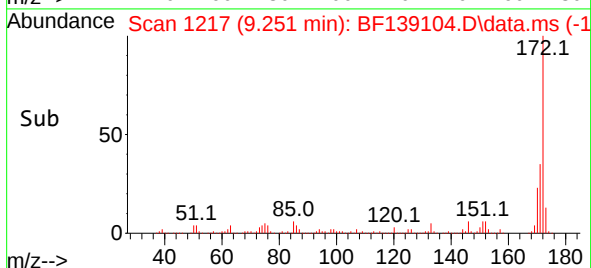
Reviewed By :Yogesh Patel 08/22/2024  
Supervised By :mohammad ahmed 08/23/2024

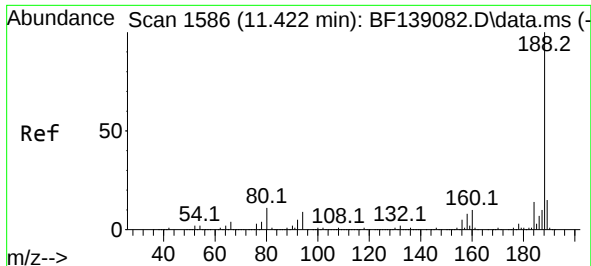


#45  
2-Fluorobiphenyl  
Concen: 46.490 ng  
RT: 9.251 min Scan# 1217  
Delta R.T. -0.006 min  
Lab File: BF139104.D  
Acq: 21 Aug 2024 16:20



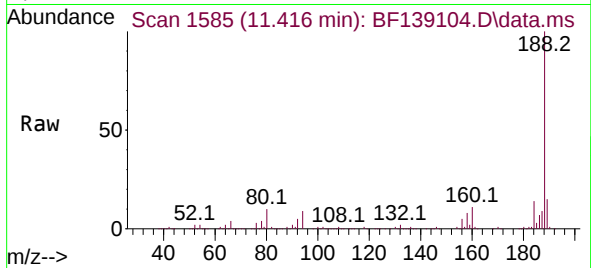
Tgt Ion: 172 Resp: 477926  
Ion Ratio Lower Upper  
172 100  
171 35.2 28.4 42.6  
170 23.1 18.8 28.2





#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.416 min Scan# 1585  
Delta R.T. -0.006 min  
Lab File: BF139104.D  
Acq: 21 Aug 2024 16:20

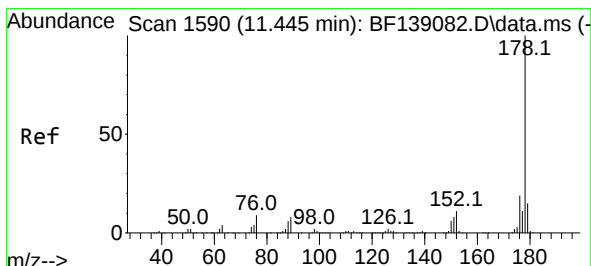
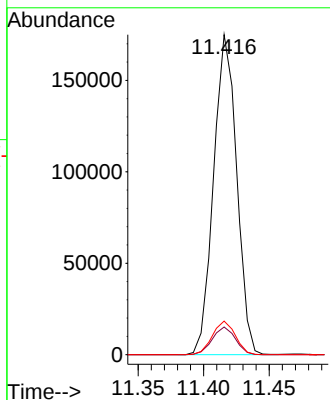
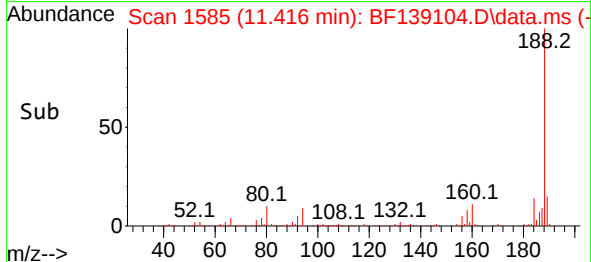
Instrument :  
BNA\_F  
ClientSampleId :  
S-901-J-0-0.5-081624



Tgt Ion:188 Resp: 214328  
Ion Ratio Lower Upper  
188 100  
94 8.7 7.2 10.8  
80 10.5 8.5 12.7

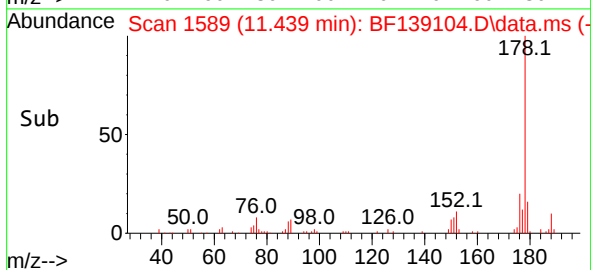
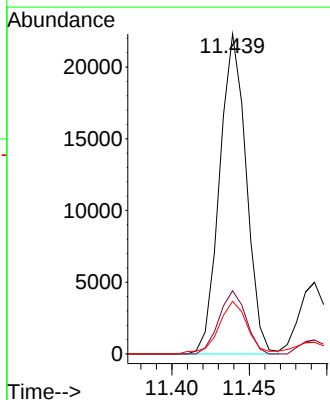
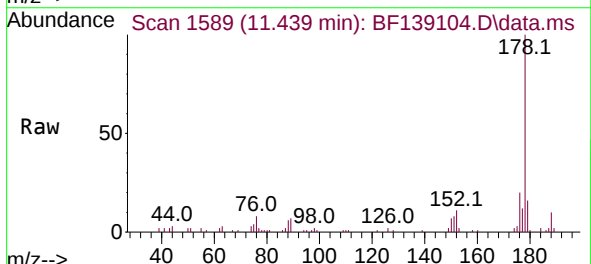
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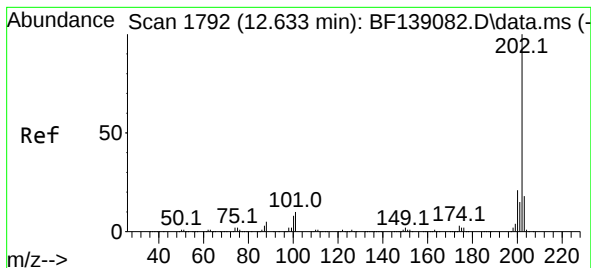
Reviewed By :Yogesh Patel 08/22/2024  
Supervised By :mohammad ahmed 08/23/2024



#71  
Phenanthrene  
Concen: 2.444 ng  
RT: 11.439 min Scan# 1589  
Delta R.T. -0.006 min  
Lab File: BF139104.D  
Acq: 21 Aug 2024 16:20

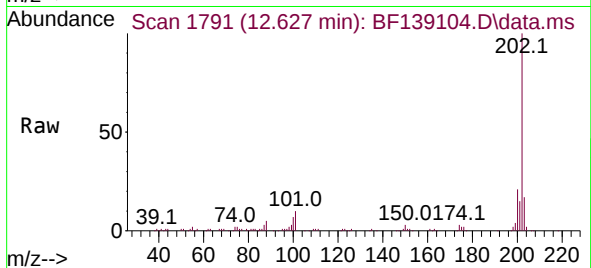
Tgt Ion:178 Resp: 26628  
Ion Ratio Lower Upper  
178 100  
176 19.7 15.4 23.2  
179 16.5 12.3 18.5





#75  
Fluoranthene  
Concen: 6.198 ng  
RT: 12.627 min Scan# 1792  
Delta R.T. -0.006 min  
Lab File: BF139104.D  
Acq: 21 Aug 2024 16:20

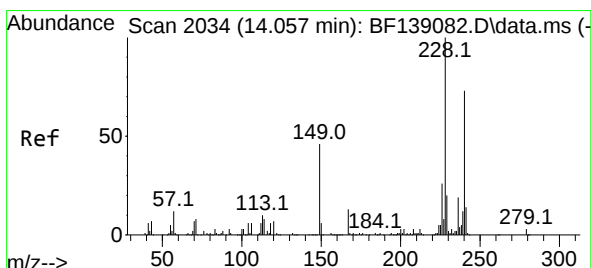
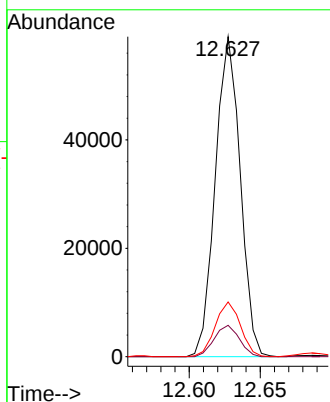
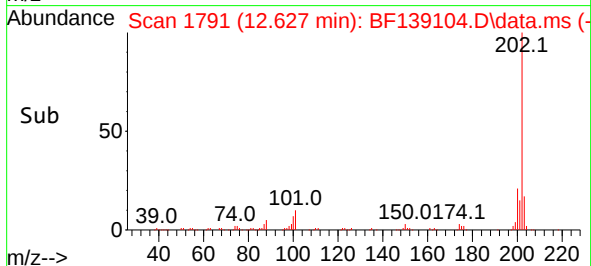
Instrument :  
BNA\_F  
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S-901-J-0-0.5-081624



Tgt Ion:202 Resp: 72072  
Ion Ratio Lower Upper  
202 100  
101 9.8 0.0 30.2  
203 17.1 0.0 37.6

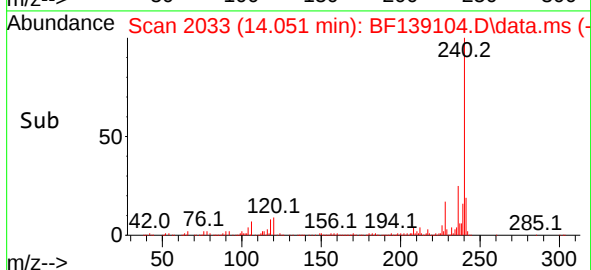
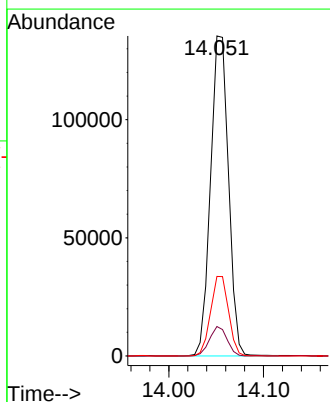
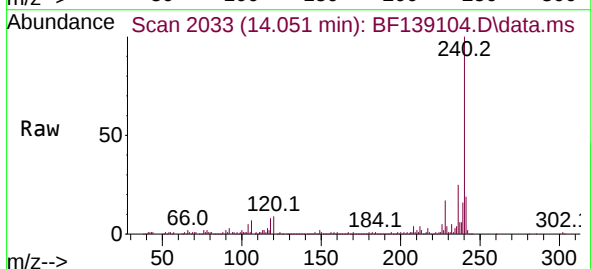
Manual Integrations  
APPROVED

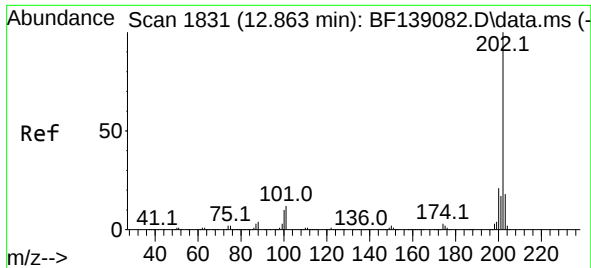
Reviewed By :Yogesh Patel 08/22/2024  
Supervised By :mohammad ahmed 08/23/2024



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.051 min Scan# 2033  
Delta R.T. -0.006 min  
Lab File: BF139104.D  
Acq: 21 Aug 2024 16:20

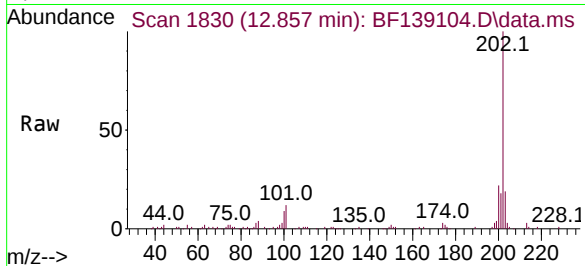
Tgt Ion:240 Resp: 178213  
Ion Ratio Lower Upper  
240 100  
120 9.2 7.8 11.6  
236 24.9 20.9 31.3





#78  
 Pyrene  
 Concen: 4.226 ng  
 RT: 12.857 min Scan# 1830  
 Delta R.T. -0.006 min  
 Lab File: BF139104.D  
 Acq: 21 Aug 2024 16:20

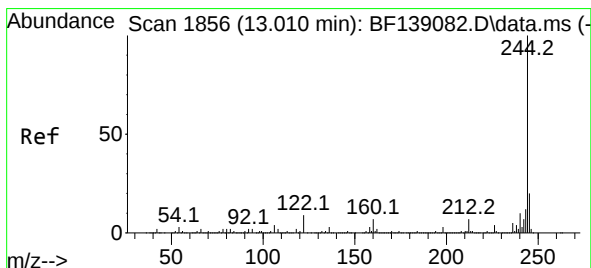
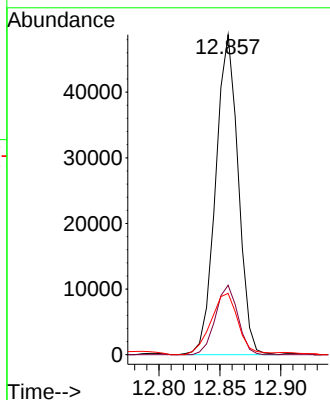
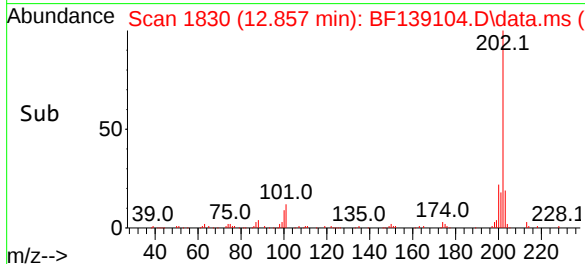
Instrument :  
 BNA\_F  
 ClientSampleId :  
 S-901-J-0-0.5-081624



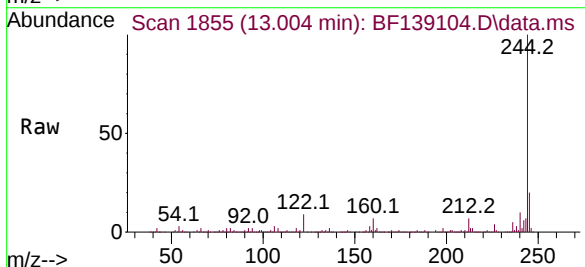
Tgt Ion:202 Resp: 62850  
 Ion Ratio Lower Upper  
 202 100  
 200 21.7 17.0 25.6  
 203 19.2 14.1 21.1

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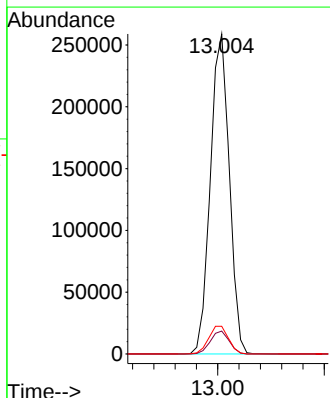
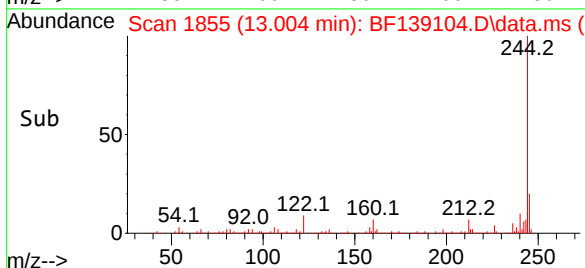
Reviewed By :Yogesh Patel 08/22/2024  
 Supervised By :mohammad ahmed 08/23/2024

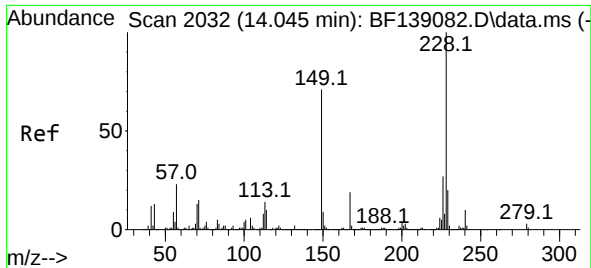


#79  
 Terphenyl-d14  
 Concen: 29.781 ng  
 RT: 13.004 min Scan# 1855  
 Delta R.T. -0.006 min  
 Lab File: BF139104.D  
 Acq: 21 Aug 2024 16:20



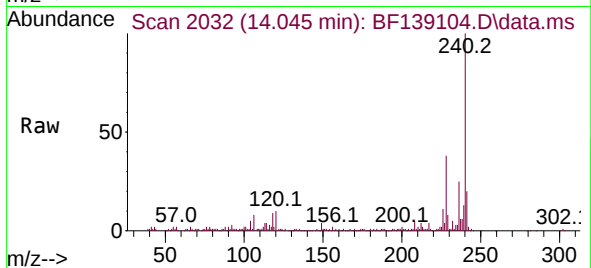
Tgt Ion:244 Resp: 319861  
 Ion Ratio Lower Upper  
 244 100  
 212 7.1 5.8 8.6  
 122 8.6 7.6 11.4





#81  
Benzo(a)anthracene  
Concen: 4.042 ng  
RT: 14.045 min Scan# 2032  
Delta R.T. -0.000 min  
Lab File: BF139104.D  
Acq: 21 Aug 2024 16:20

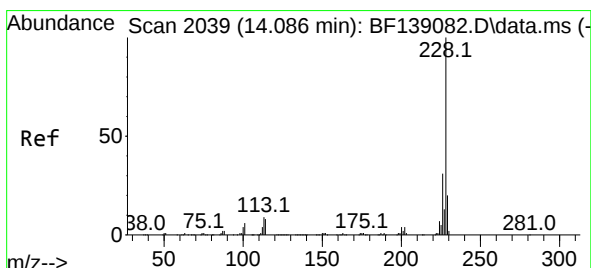
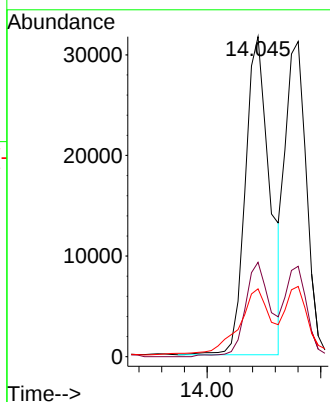
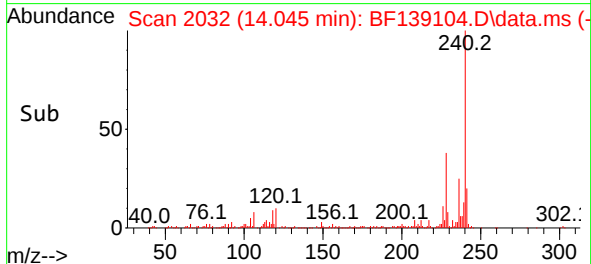
Instrument :  
BNA\_F  
ClientSampleId :  
S-901-J-0-0.5-081624



Tgt Ion:228 Resp: 47350  
Ion Ratio Lower Upper  
228 100  
226 29.5 21.9 32.9  
229 21.2 16.1 24.1

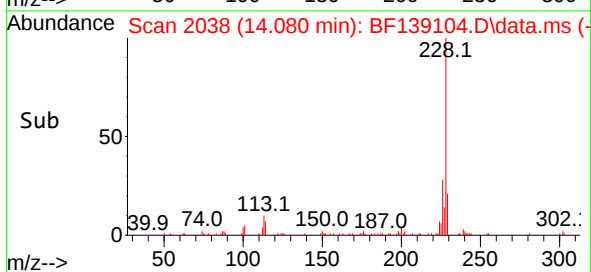
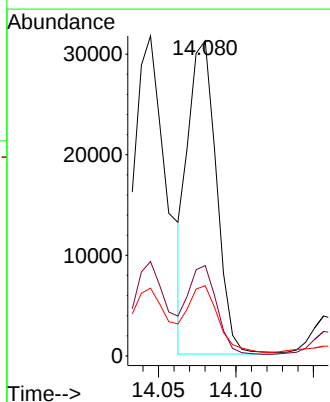
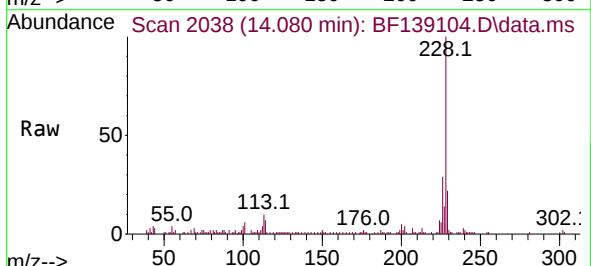
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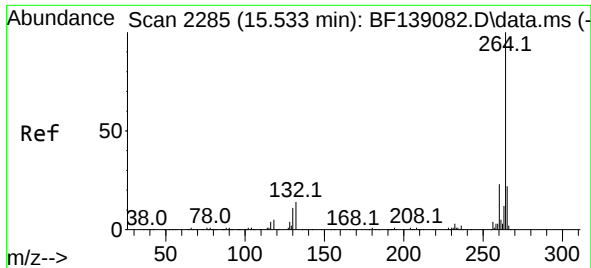
Reviewed By :Yogesh Patel 08/22/2024  
Supervised By :mohammad ahmed 08/23/2024



#83  
Chrysene  
Concen: 3.761 ng  
RT: 14.080 min Scan# 2038  
Delta R.T. -0.006 min  
Lab File: BF139104.D  
Acq: 21 Aug 2024 16:20

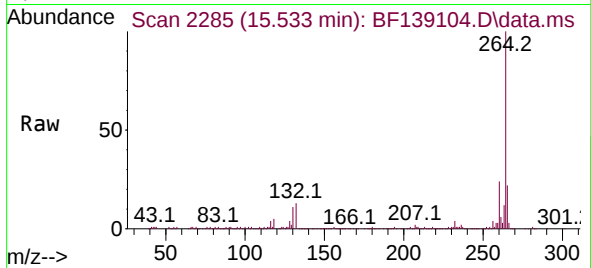
Tgt Ion:228 Resp: 39934  
Ion Ratio Lower Upper  
228 100  
226 28.7 24.3 36.5  
229 22.3 15.8 23.8





#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.533 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: BF139104.D  
Acq: 21 Aug 2024 16:20

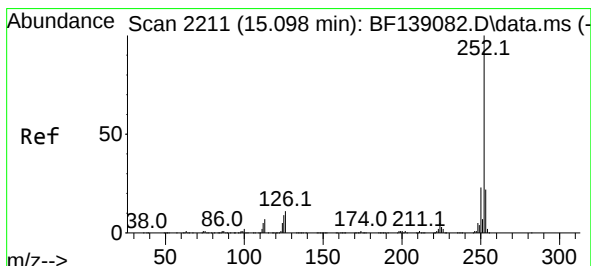
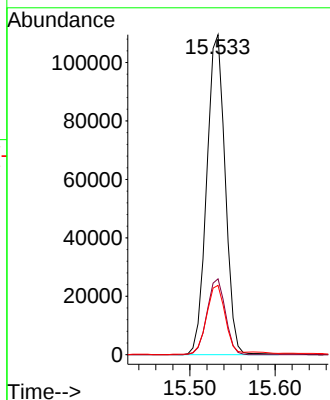
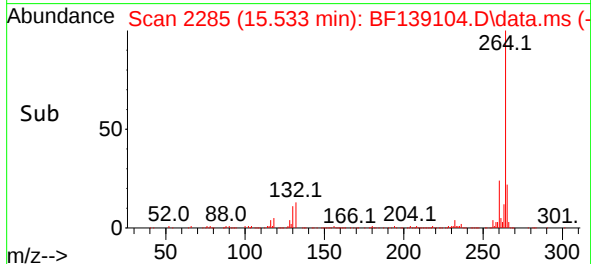
Instrument :  
BNA\_F  
ClientSampleId :  
S-901-J-0-0.5-081624



Tgt Ion:264 Resp: 16470  
Ion Ratio Lower Upper  
264 100  
260 23.7 18.6 27.8  
265 21.7 17.4 26.2

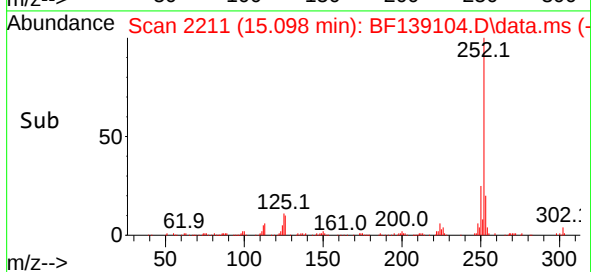
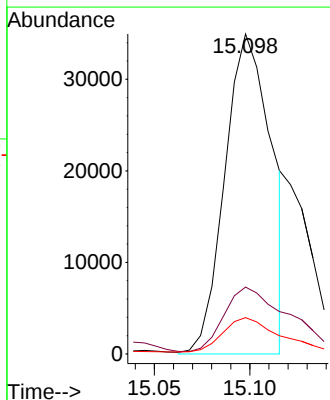
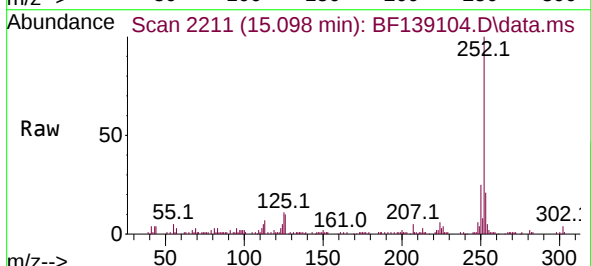
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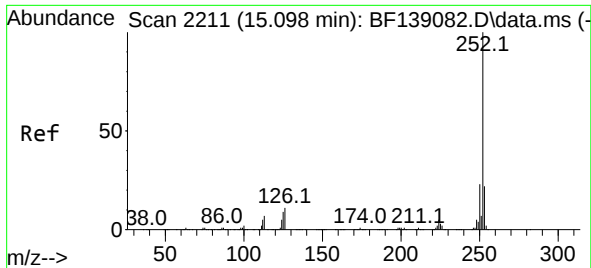
Reviewed By :Yogesh Patel 08/22/2024  
Supervised By :mohammad ahmed 08/23/2024



#88  
Benzo(b)fluoranthene  
Concen: 5.526 ng m  
RT: 15.098 min Scan# 2211  
Delta R.T. -0.000 min  
Lab File: BF139104.D  
Acq: 21 Aug 2024 16:20

Tgt Ion:252 Resp: 59332  
Ion Ratio Lower Upper  
252 100  
253 20.9 17.4 26.2  
125 11.3 7.0 10.6#





#89

Benzo(k)fluoranthene

Concen: 2.091 ng m

RT: 15.115 min Scan# 21

Delta R.T. -0.018 min

Lab File: BF139104.D

Acq: 21 Aug 2024 16:20

Instrument :

BNA\_F

ClientSampleId :

S-901-J-0-0.5-081624

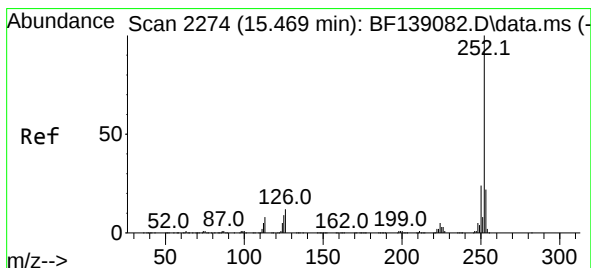
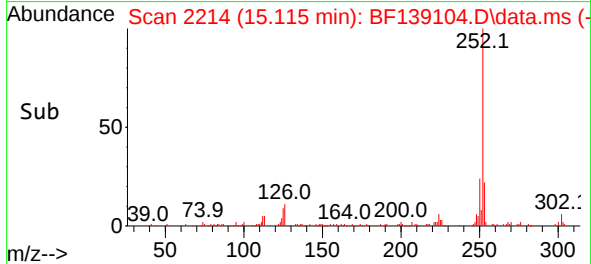
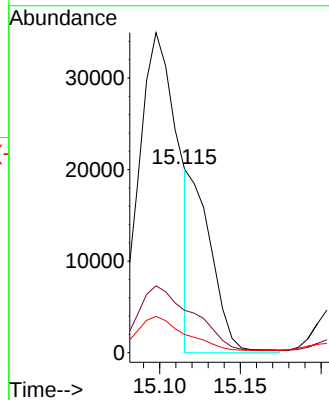
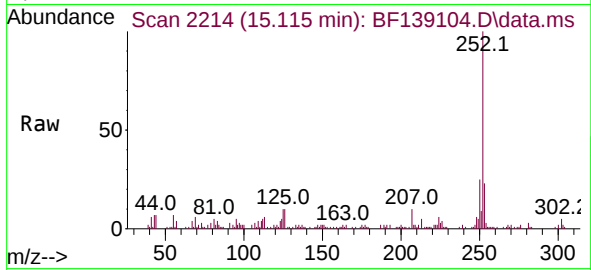
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:252 | Resp: | 1869      |
| Ion Ratio   | Lower | Upper     |
| 252         | 100   |           |
| 253         | 23.1  | 17.4 26.2 |
| 125         | 10.0  | 7.0 10.6  |

Manual Integrations

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Reviewed By :Yogesh Patel 08/22/2024

Supervised By :mohammad ahmed 08/23/2024



#90

Benzo(a)pyrene

Concen: 4.154 ng

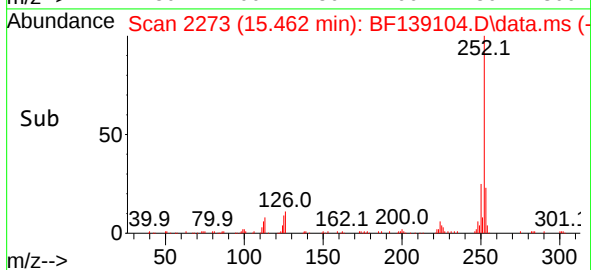
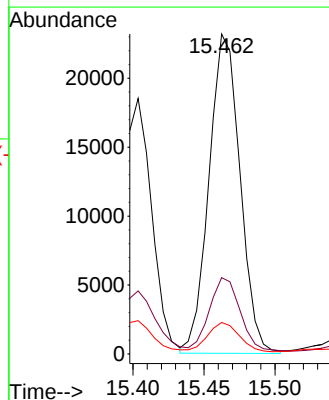
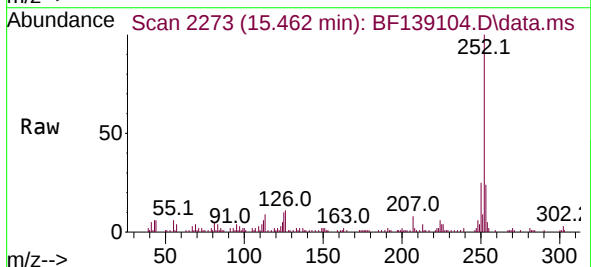
RT: 15.462 min Scan# 2273

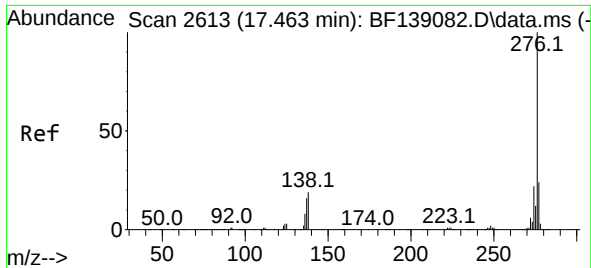
Delta R.T. -0.006 min

Lab File: BF139104.D

Acq: 21 Aug 2024 16:20

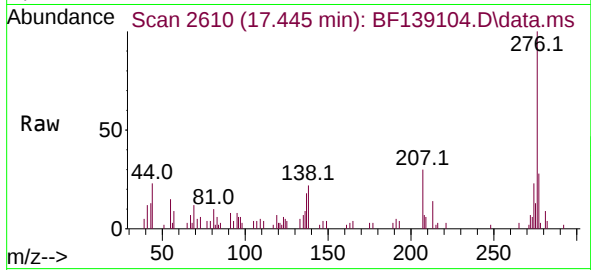
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:252 | Resp: | 35245     |
| Ion Ratio   | Lower | Upper     |
| 252         | 100   |           |
| 253         | 23.8  | 17.3 25.9 |
| 125         | 9.8   | 7.4 11.2  |





#92  
Benzo(g,h,i)perylene  
Concen: 4.370 ng  
RT: 17.445 min Scan# 20  
Delta R.T. -0.018 min  
Lab File: BF139104.D  
Acq: 21 Aug 2024 16:20

Instrument :  
BNA\_F  
ClientSampleId :  
S-901-J-0-0.5-081624



|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 276   | Resp: | 1512 |
| Ion Ratio | Lower | Upper |      |
| 276       | 100   |       |      |
| 277       | 28.2  | 18.8  | 28.2 |
| 138       | 21.8  | 15.0  | 22.4 |

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 08/22/2024  
Supervised By :mohammad ahmed 08/23/2024

