

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF052924\  
 Data File : BF138062.D  
 Acq On : 29 May 2024 16:38  
 Operator : CG\JU  
 Sample : P2560-09 5X  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 INT-PE1

Manual Integrations  
 APPROVED

Reviewed By :Jagrut Upadhyay 05/30/2024  
 Supervised By :mohammad ahmed 05/31/2024

Quant Time: May 29 16:59:54 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF051424.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 15 04:12:16 2024  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| -----                       |        |      |          |        |       |          |
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.034  | 152  | 70426    | 20.000 | ng    | -0.01    |
| 21) Naphthalene-d8          | 8.322  | 136  | 254913   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10        | 10.086 | 164  | 128461   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.592 | 188  | 171656   | 20.000 | ng    | # 0.01   |
| 76) Chrysene-d12            | 14.233 | 240  | 150763   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12            | 15.804 | 264  | 132808   | 20.000 | ng    | 0.02     |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.657  | 112  | 68495    | 16.521 | ng    | 0.00     |
| 7) Phenol-d6                | 6.646  | 99   | 83677    | 16.384 | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.593  | 82   | 50403    | 11.636 | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol    | 10.881 | 330  | 21879    | 16.891 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.392  | 172  | 122226   | 14.656 | ng    | 0.00     |
| 79) Terphenyl-d14           | 13.175 | 244  | 100400   | 9.815  | ng    | 0.01     |
| Target Compounds            |        |      |          |        |       |          |
|                             |        |      |          |        |       | Qvalue   |
| 71) Phenanthrene            | 11.616 | 178  | 82662    | 9.772  | ng    | # 86     |
| 72) Anthracene              | 11.669 | 178  | 21557    | 2.568  | ng    | # 48     |
| 75) Fluoranthene            | 12.816 | 202  | 209269   | 24.373 | ng    | 95       |
| 78) Pyrene                  | 13.045 | 202  | 179910   | 13.644 | ng    | 97       |
| 81) Benzo(a)anthracene      | 14.227 | 228  | 119031   | 12.479 | ng    | 97       |
| 83) Chrysene                | 14.263 | 228  | 113849   | 12.481 | ng    | 96       |
| 87) Indeno(1,2,3-cd)pyrene  | 17.427 | 276  | 31958    | 3.745  | ng    | # 94     |
| 88) Benzo(b)fluoranthene    | 15.327 | 252  | 113614m  | 14.775 | ng    |          |
| 89) Benzo(k)fluoranthene    | 15.357 | 252  | 45737m   | 6.054  | ng    |          |
| 90) Benzo(a)pyrene          | 15.727 | 252  | 69854    | 10.638 | ng    | 97       |
| 92) Benzo(g,h,i)perylene    | 17.927 | 276  | 29119    | 3.932  | ng    | # 95     |
| -----                       |        |      |          |        |       |          |

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

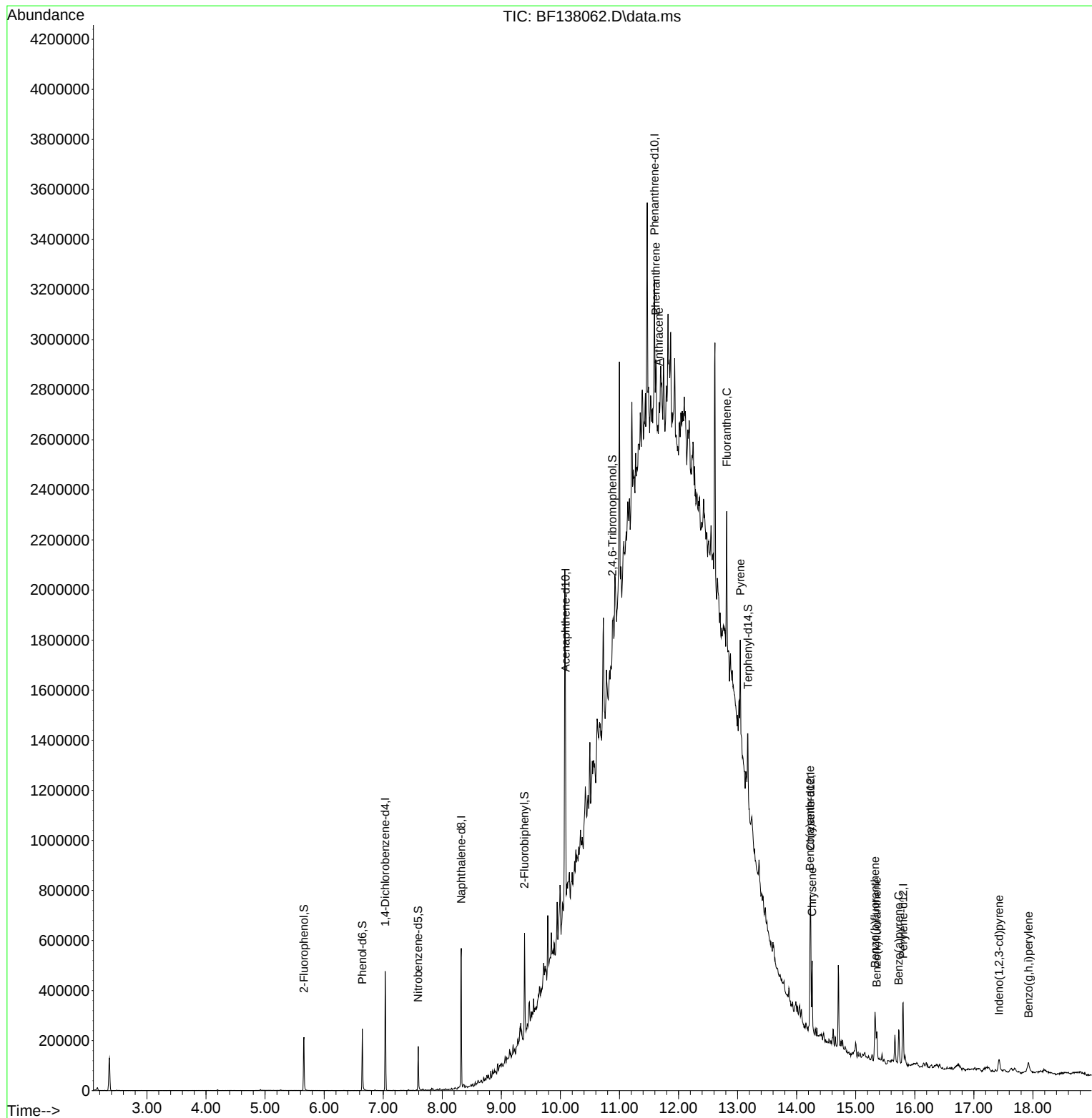
Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF052924\  
Data File : BF138062.D  
Acq On : 29 May 2024 16:38  
Operator : CG\JU  
Sample : P2560-09 5X  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

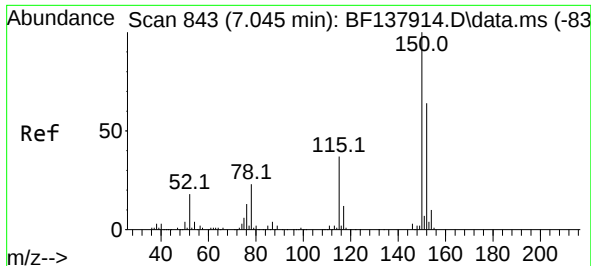
Instrument :  
BNA\_F  
ClientSampleId :  
INT-PE1

Quant Time: May 29 16:59:54 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF051424.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed May 15 04:12:16 2024  
Response via : Initial Calibration

Manual Integrations  
APPROVED

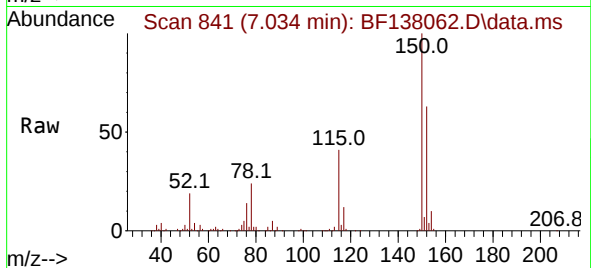
Reviewed By :Jagrut Upadhyay 05/30/2024  
Supervised By :mohammad ahmed 05/31/2024





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.034 min Scan# 843  
Delta R.T. -0.011 min  
Lab File: BF138062.D  
Acq: 29 May 2024 16:38

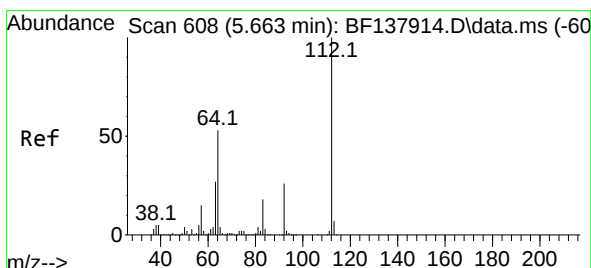
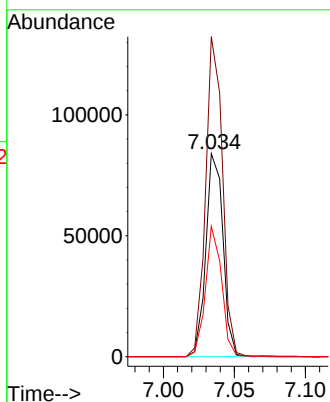
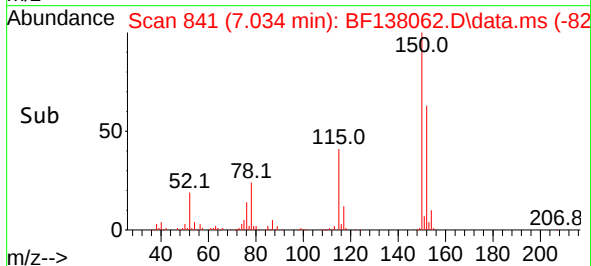
Instrument :  
BNA\_F  
ClientSampleId :  
INT-PE1



Tgt Ion:152 Resp: 70420  
Ion Ratio Lower Upper  
152 100  
150 157.6 125.7 188.5  
115 64.2 47.0 70.6

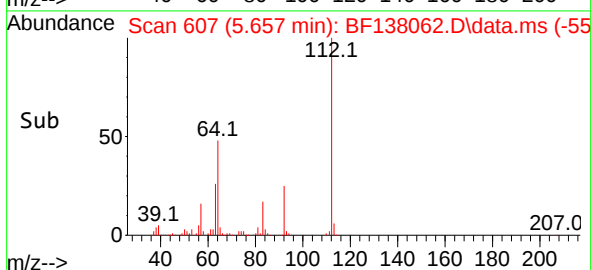
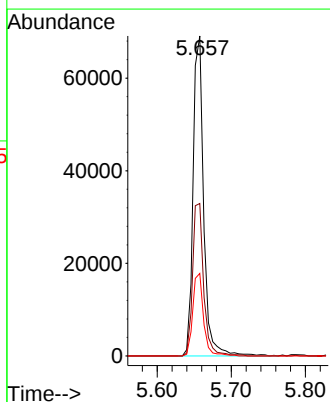
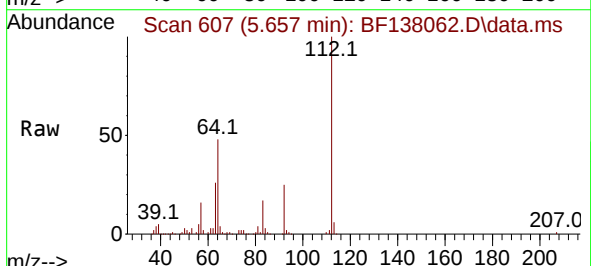
Manual Integrations  
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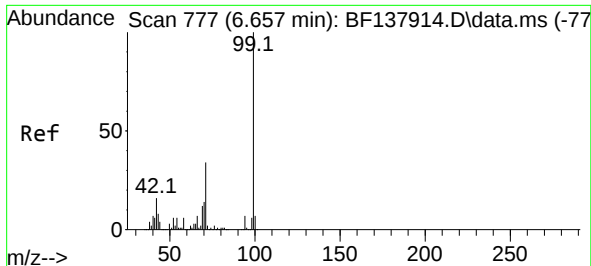
Reviewed By :Jagrut Upadhyay 05/30/2024  
Supervised By :mohammad ahmed 05/31/2024



#5  
2-Fluorophenol  
Concen: 16.521 ng  
RT: 5.657 min Scan# 607  
Delta R.T. -0.006 min  
Lab File: BF138062.D  
Acq: 29 May 2024 16:38

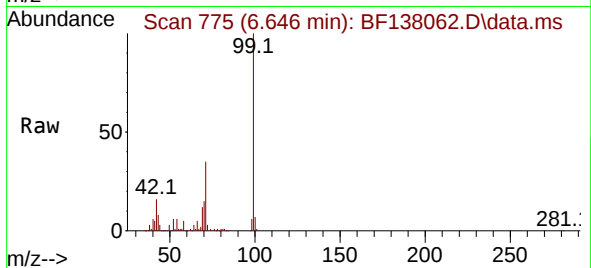
Tgt Ion:112 Resp: 68495  
Ion Ratio Lower Upper  
112 100  
64 47.6 42.4 63.6  
63 25.8 21.4 32.2





#7  
Phenol-d6  
Concen: 16.384 ng  
RT: 6.646 min Scan# 71  
Delta R.T. -0.012 min  
Lab File: BF138062.D  
Acq: 29 May 2024 16:38

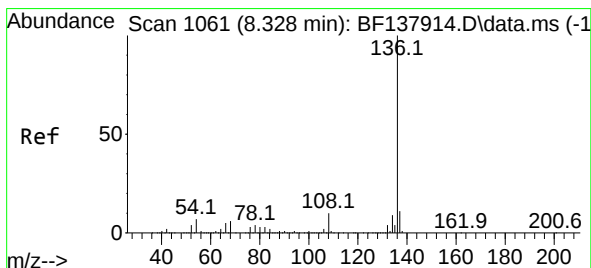
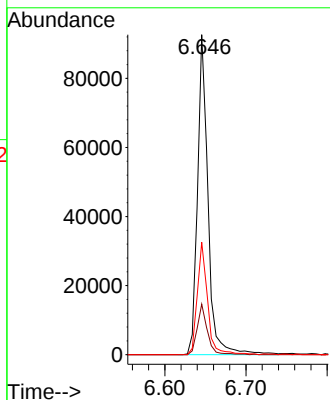
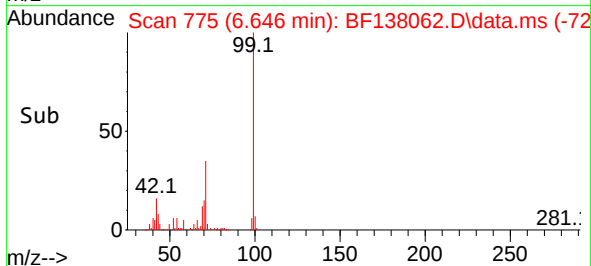
Instrument :  
BNA\_F  
ClientSampleId :  
INT-PE1



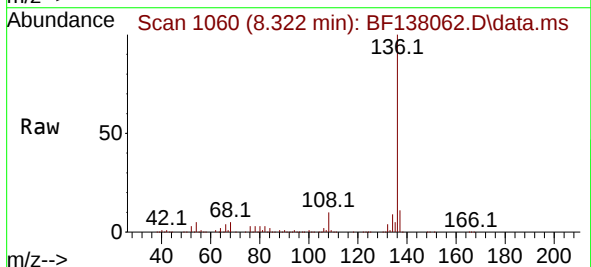
Tgt Ion: 99 Resp: 8367  
Ion Ratio Lower Upper  
99 100  
42 15.8 12.6 18.8  
71 35.1 27.1 40.7

Manual Integrations  
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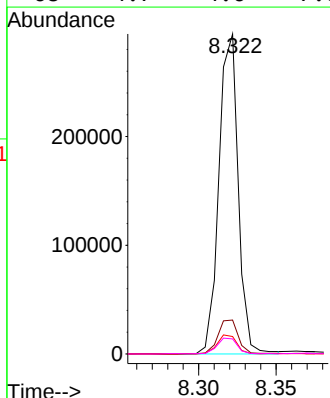
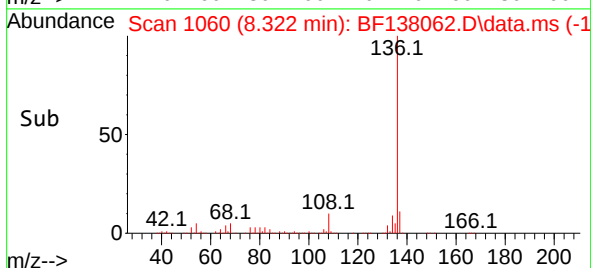
Reviewed By :Jagrut Upadhyay 05/30/2024  
Supervised By :mohammad ahmed 05/31/2024

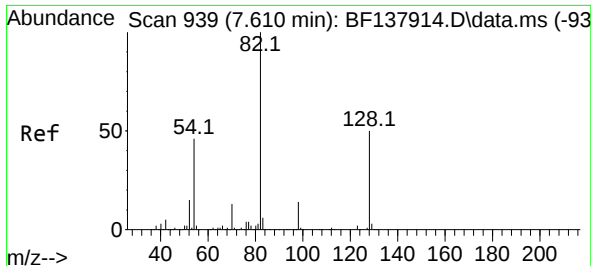


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.322 min Scan# 1060  
Delta R.T. -0.006 min  
Lab File: BF138062.D  
Acq: 29 May 2024 16:38



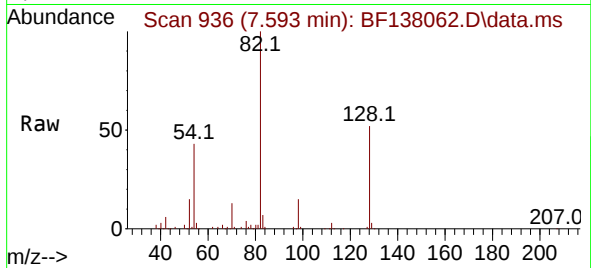
Tgt Ion:136 Resp: 254913  
Ion Ratio Lower Upper  
136 100  
137 10.6 8.7 13.1  
54 5.4 5.4 8.2  
68 4.7 4.6 7.0





#23  
Nitrobenzene-d5  
Concen: 11.636 ng  
RT: 7.593 min Scan# 91  
Delta R.T. -0.017 min  
Lab File: BF138062.D  
Acq: 29 May 2024 16:38

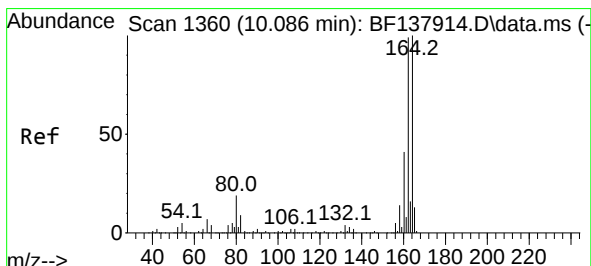
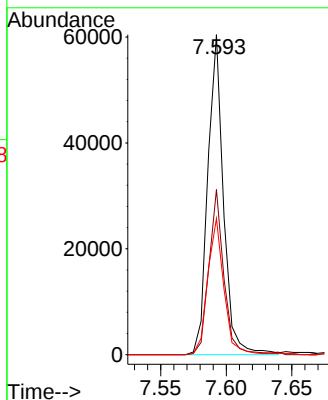
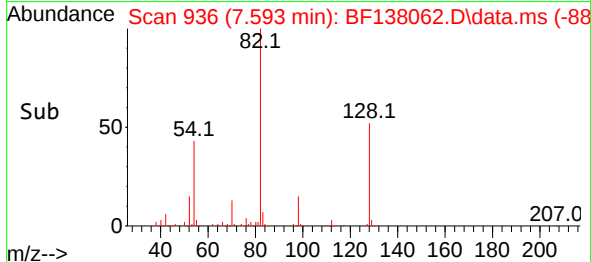
Instrument :  
BNA\_F  
ClientSampleId :  
INT-PE1



Tgt Ion: 82 Resp: 5040  
Ion Ratio Lower Upper  
82 100  
128 51.6 40.3 60.5  
54 42.5 36.8 55.2

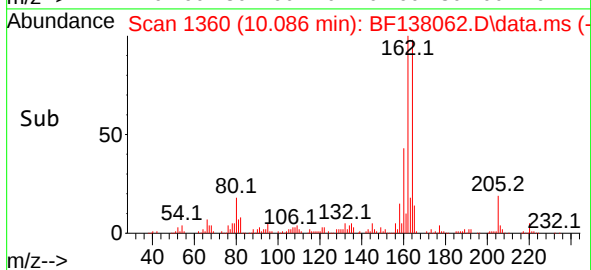
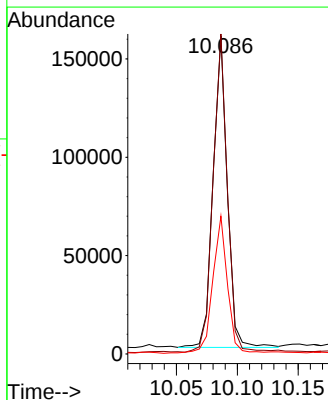
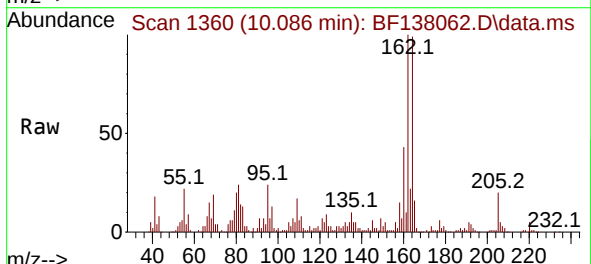
Manual Integrations  
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#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 10.086 min Scan# 1360  
Delta R.T. 0.000 min  
Lab File: BF138062.D  
Acq: 29 May 2024 16:38

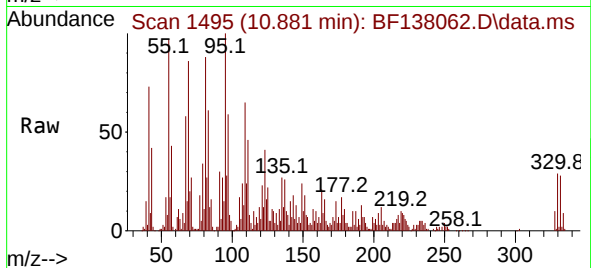
Tgt Ion:164 Resp: 128461  
Ion Ratio Lower Upper  
164 100  
162 100.6 79.4 119.2  
160 43.3 33.1 49.7





#42  
2,4,6-Tribromophenol  
Concen: 16.891 ng  
RT: 10.881 min Scan# 1495  
Delta R.T. 0.000 min  
Lab File: BF138062.D  
Acq: 29 May 2024 16:38

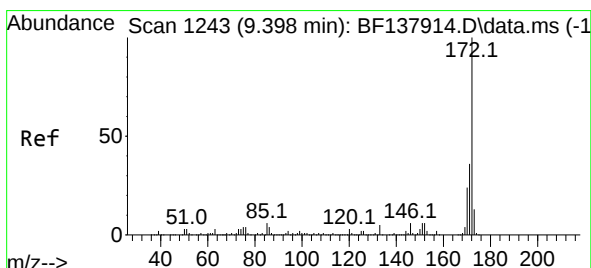
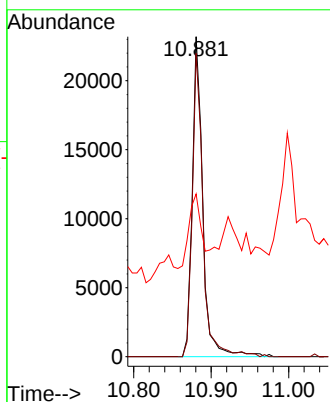
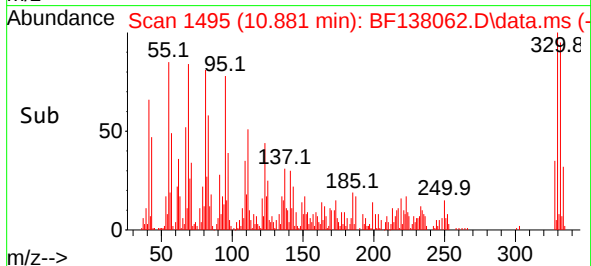
Instrument :  
BNA\_F  
ClientSampleId :  
INT-PE1



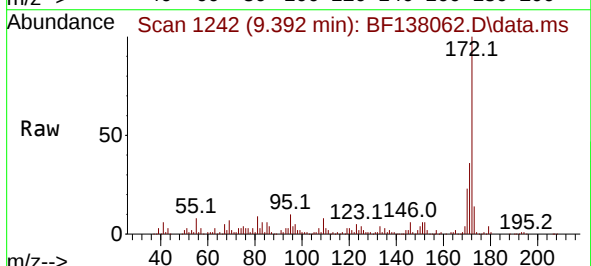
Tgt Ion: 330 Resp: 21879  
Ion Ratio Lower Upper  
330 100  
332 95.9 75.8 113.8  
141 28.6 23.8 35.6

Manual Integrations  
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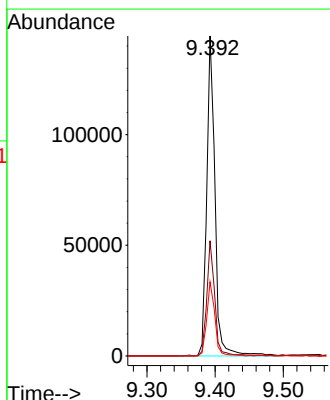
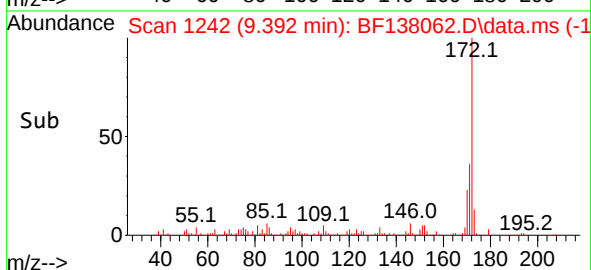
Reviewed By :Jagrut Upadhyay 05/30/2024  
Supervised By :mohammad ahmed 05/31/2024

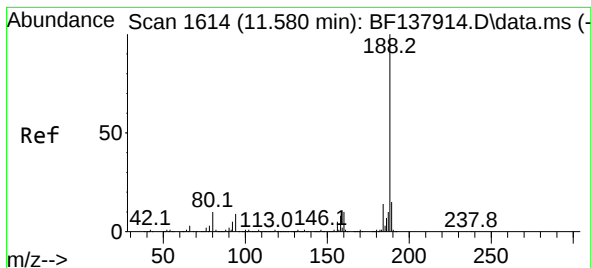


#45  
2-Fluorobiphenyl  
Concen: 14.656 ng  
RT: 9.392 min Scan# 1242  
Delta R.T. -0.006 min  
Lab File: BF138062.D  
Acq: 29 May 2024 16:38



Tgt Ion: 172 Resp: 122226  
Ion Ratio Lower Upper  
172 100  
171 36.0 28.9 43.3  
170 23.2 18.9 28.3





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.592 min Scan# 1616

Delta R.T. 0.012 min

Lab File: BF138062.D

Acq: 29 May 2024 16:38

Instrument :

BNA\_F

ClientSampleId :

INT-PE1

Tgt Ion:188 Resp: 171650

Ion Ratio Lower Upper

188 100

94 15.5 7.0 10.4

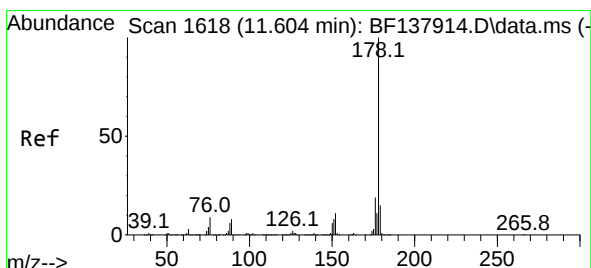
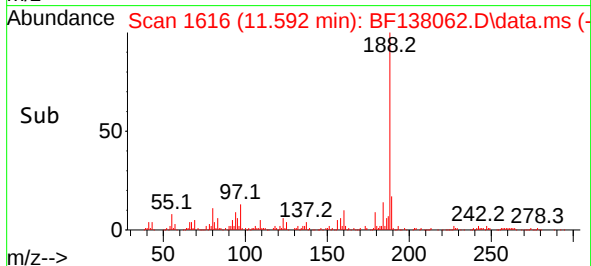
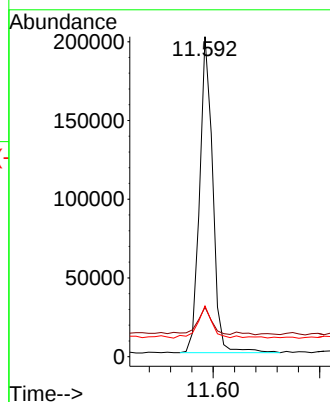
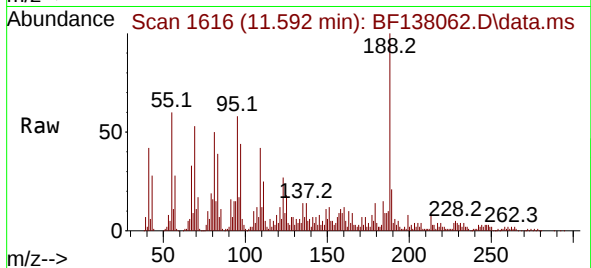
80 15.8 7.7 11.5

Manual Integrations

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Reviewed By :Jagrut Upadhyay 05/30/2024

Supervised By :mohammad ahmed 05/31/2024



#71

Phenanthrene

Concen: 9.772 ng

RT: 11.616 min Scan# 1620

Delta R.T. 0.012 min

Lab File: BF138062.D

Acq: 29 May 2024 16:38

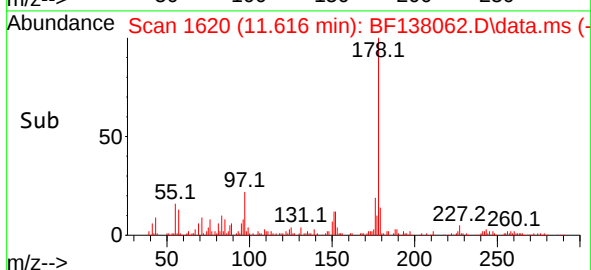
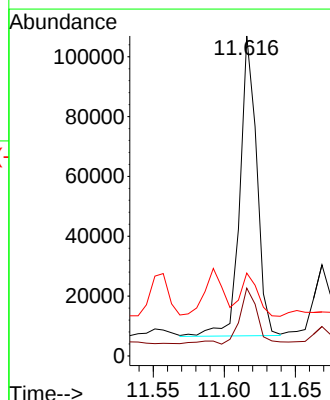
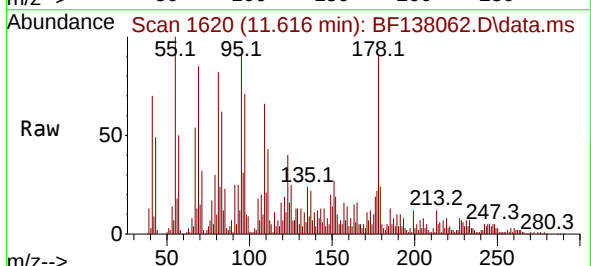
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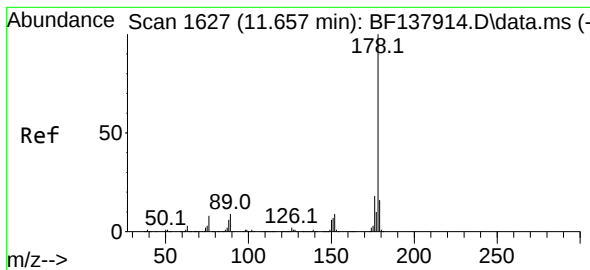
Ion Ratio Lower Upper

178 100

176 21.2 15.2 22.8

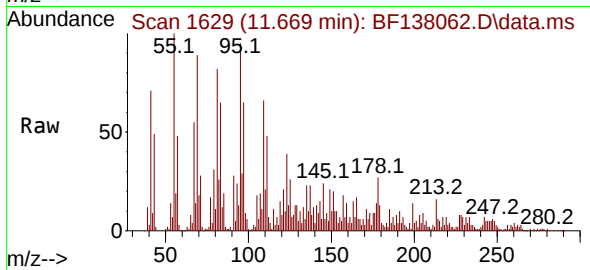
179 25.9 12.2 18.4





#72  
 Anthracene  
 Concen: 2.568 ng  
 RT: 11.669 min Scan# 1629  
 Delta R.T. 0.012 min  
 Lab File: BF138062.D  
 Acq: 29 May 2024 16:38

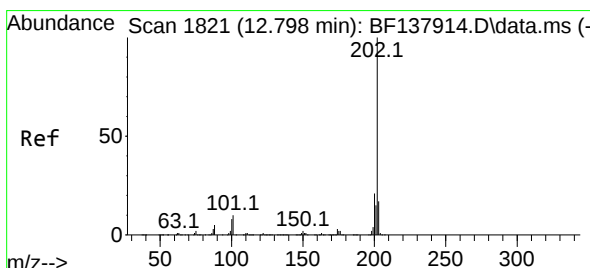
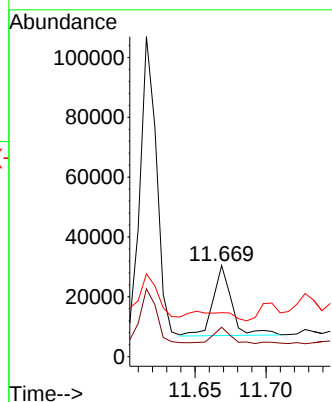
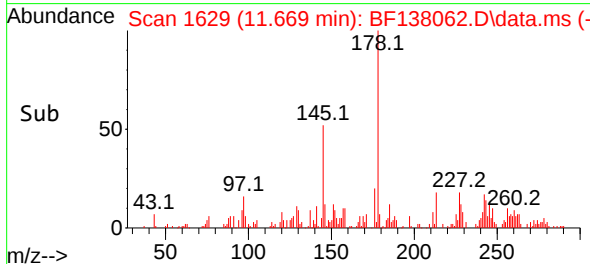
Instrument :  
 BNA\_F  
 ClientSampleId :  
 INT-PE1



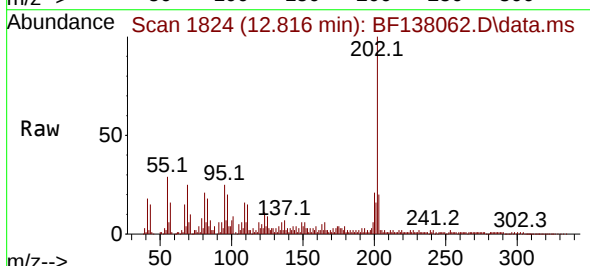
Tgt Ion:178 Resp: 2155  
 Ion Ratio Lower Upper  
 178 100  
 176 32.3 14.7 22.1  
 179 48.2 12.4 18.6

Manual Integrations  
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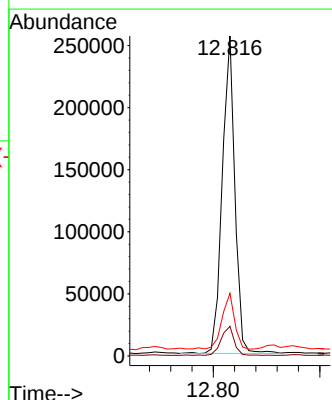
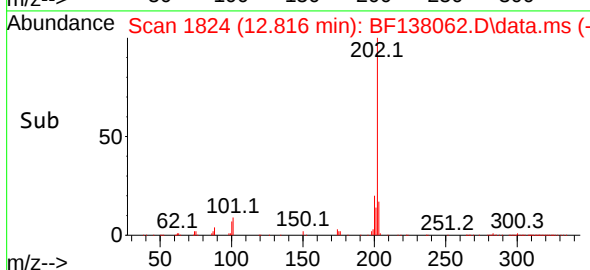
Reviewed By :Jagrut Upadhyay 05/30/2024  
 Supervised By :mohammad ahmed 05/31/2024

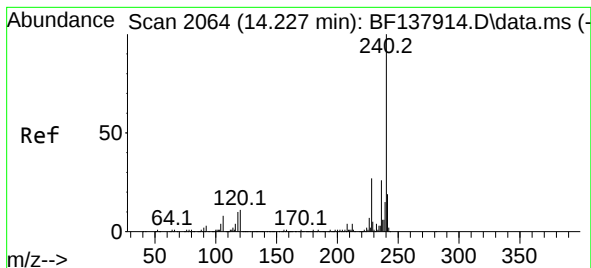


#75  
 Fluoranthene  
 Concen: 24.373 ng  
 RT: 12.816 min Scan# 1824  
 Delta R.T. 0.018 min  
 Lab File: BF138062.D  
 Acq: 29 May 2024 16:38



Tgt Ion:202 Resp: 209269  
 Ion Ratio Lower Upper  
 202 100  
 101 9.2 0.0 30.5  
 203 19.6 0.0 37.3





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.233 min Scan# 2065

Delta R.T. 0.006 min

Lab File: BF138062.D

Acq: 29 May 2024 16:38

Instrument :

BNA\_F

ClientSampleId :

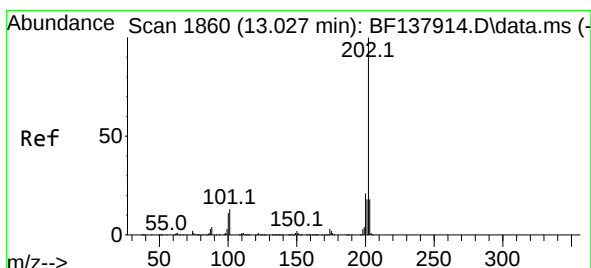
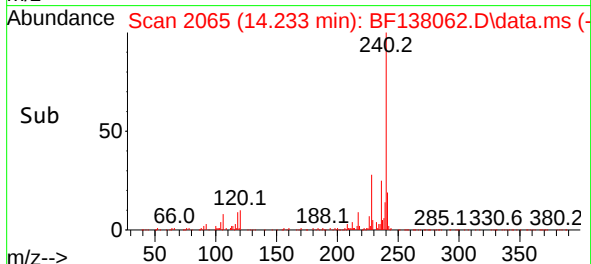
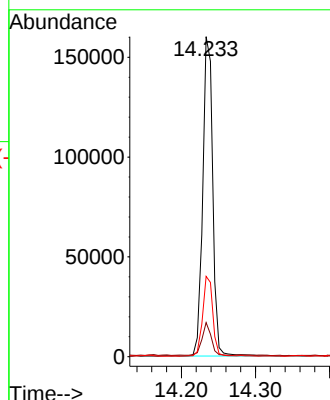
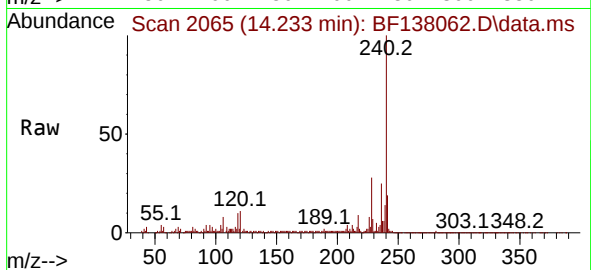
INT-PE1

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 240   | Resp: | 15076 |
| Ion Ratio | Lower | Upper |       |
| 240       | 100   |       |       |
| 120       | 10.7  | 8.9   | 13.3  |
| 236       | 25.1  | 21.0  | 31.4  |

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 05/30/2024  
Supervised By :mohammad ahmed 05/31/2024



#78

Pyrene

Concen: 13.644 ng

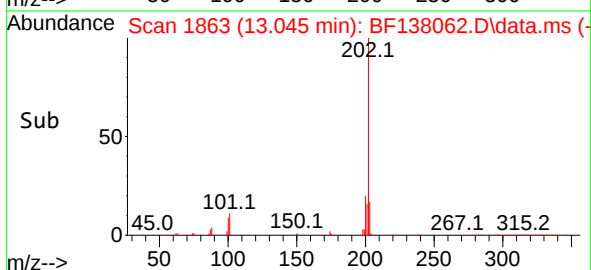
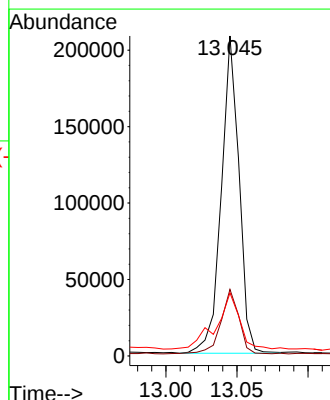
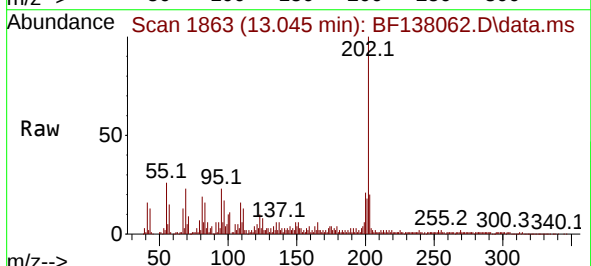
RT: 13.045 min Scan# 1863

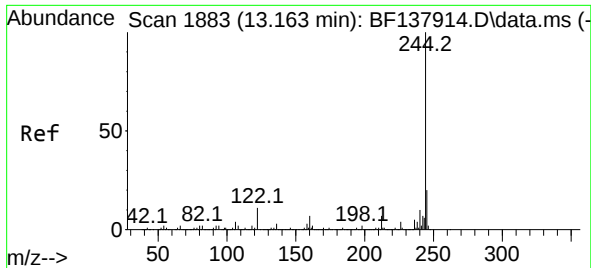
Delta R.T. 0.018 min

Lab File: BF138062.D

Acq: 29 May 2024 16:38

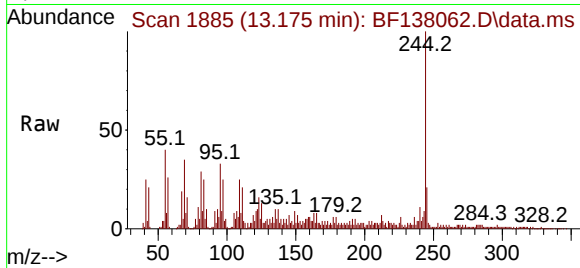
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 179910 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 200       | 20.8  | 17.0  | 25.4   |
| 203       | 19.7  | 14.1  | 21.1   |





#79  
 Terphenyl-d14  
 Concen: 9.815 ng  
 RT: 13.175 min Scan# 1885  
 Delta R.T. 0.012 min  
 Lab File: BF138062.D  
 Acq: 29 May 2024 16:38

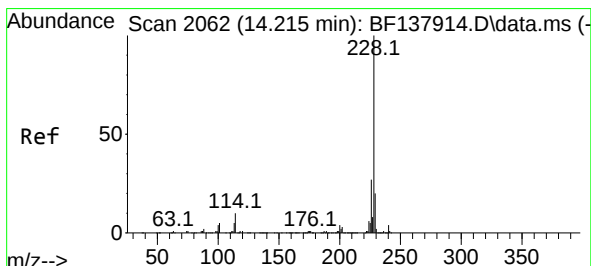
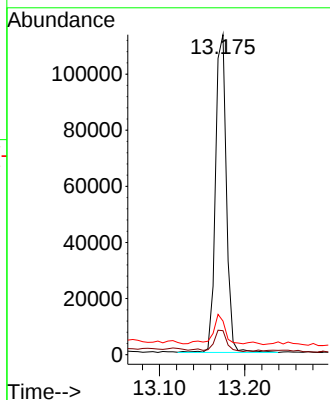
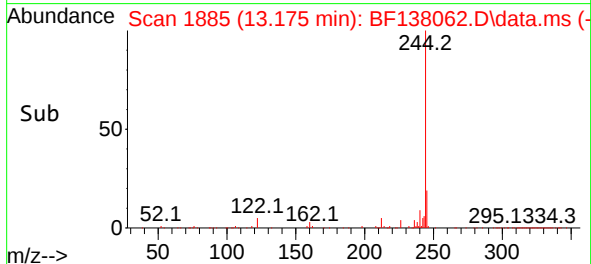
Instrument :  
 BNA\_F  
 ClientSampleId :  
 INT-PE1



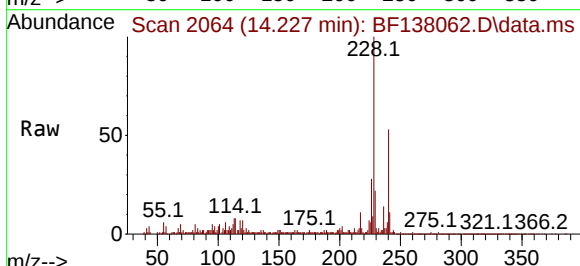
Tgt Ion:244 Resp: 100400  
 Ion Ratio Lower Upper  
 244 100  
 212 7.5 5.6 8.4  
 122 10.5 8.8 13.2

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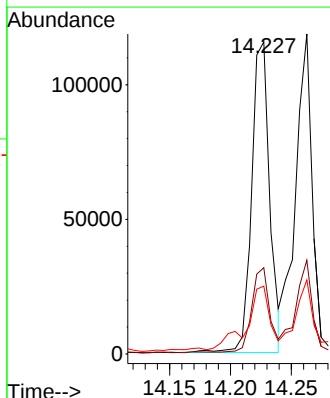
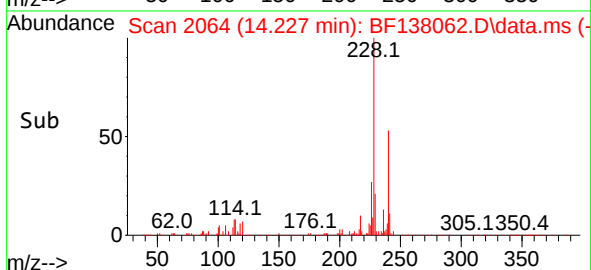
Reviewed By :Jagrut Upadhyay 05/30/2024  
 Supervised By :mohammad ahmed 05/31/2024

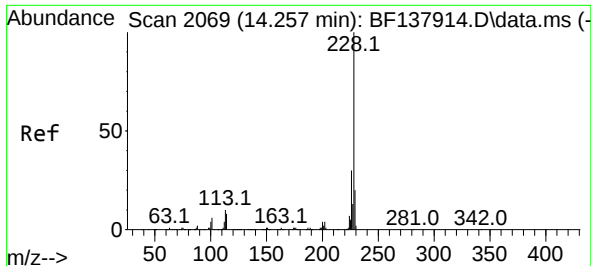


#81  
 Benzo(a)anthracene  
 Concen: 12.479 ng  
 RT: 14.227 min Scan# 2064  
 Delta R.T. 0.012 min  
 Lab File: BF138062.D  
 Acq: 29 May 2024 16:38



Tgt Ion:228 Resp: 119031  
 Ion Ratio Lower Upper  
 228 100  
 226 27.6 21.3 31.9  
 229 21.7 15.7 23.5





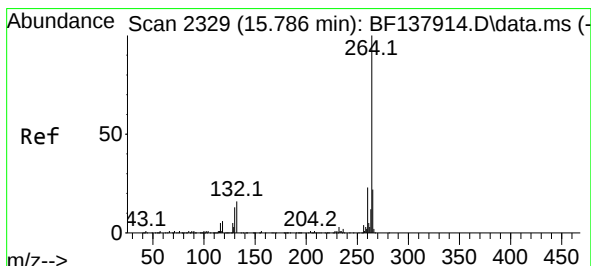
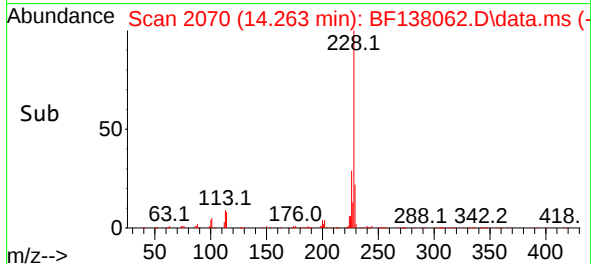
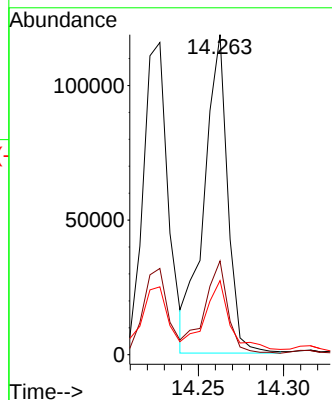
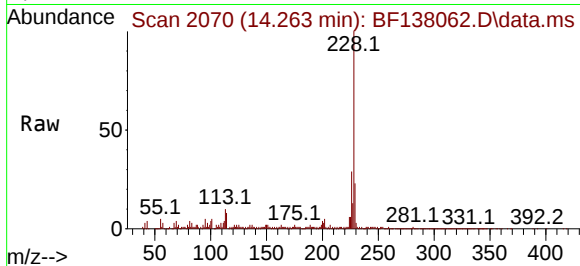
#83  
Chrysene  
Concen: 12.481 ng  
RT: 14.263 min Scan# 2069  
Delta R.T. 0.006 min  
Lab File: BF138062.D  
Acq: 29 May 2024 16:38

Instrument :  
BNA\_F  
ClientSampleId :  
INT-PE1

Tgt Ion:228 Resp: 113849  
Ion Ratio Lower Upper  
228 100  
226 29.3 23.8 35.8  
229 23.1 15.6 23.4

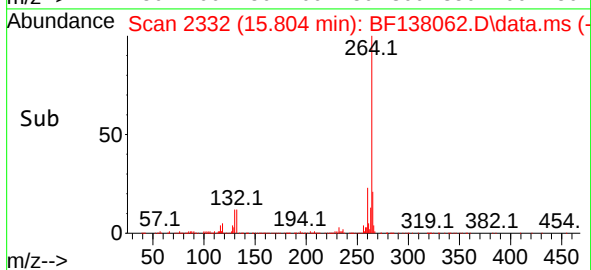
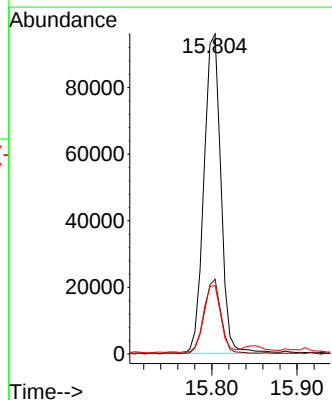
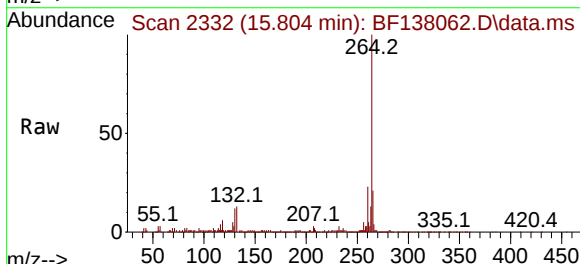
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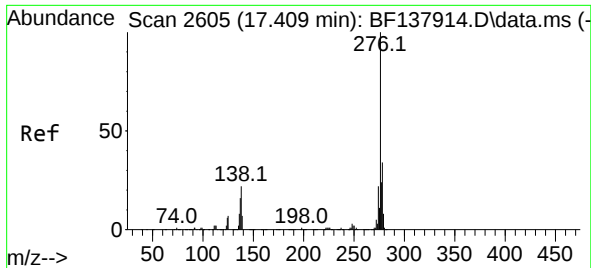
Reviewed By :Jagrut Upadhyay 05/30/2024  
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#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.804 min Scan# 2332  
Delta R.T. 0.018 min  
Lab File: BF138062.D  
Acq: 29 May 2024 16:38

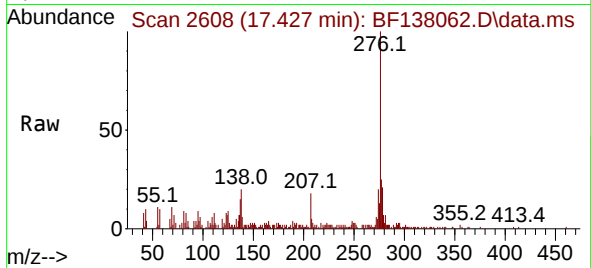
Tgt Ion:264 Resp: 132808  
Ion Ratio Lower Upper  
264 100  
260 23.3 18.3 27.5  
265 21.4 17.6 26.4





#87  
Indeno(1,2,3-cd)pyrene  
Concen: 3.745 ng  
RT: 17.427 min Scan# 2068  
Delta R.T. 0.018 min  
Lab File: BF138062.D  
Acq: 29 May 2024 16:38

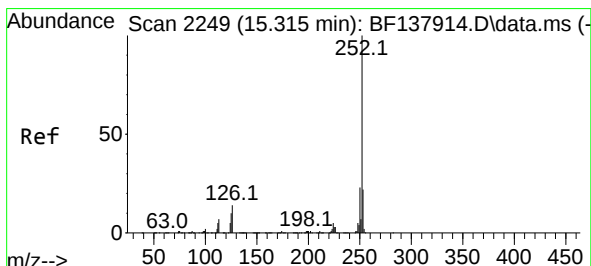
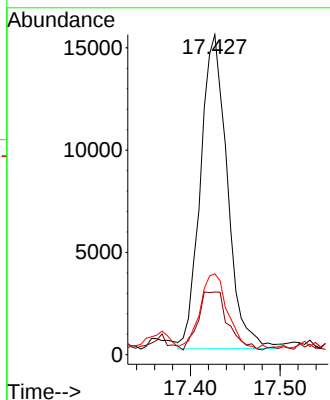
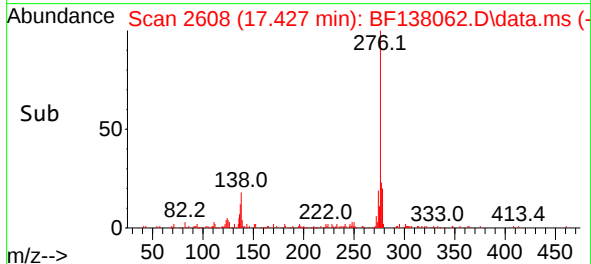
Instrument :  
BNA\_F  
ClientSampleId :  
INT-PE1



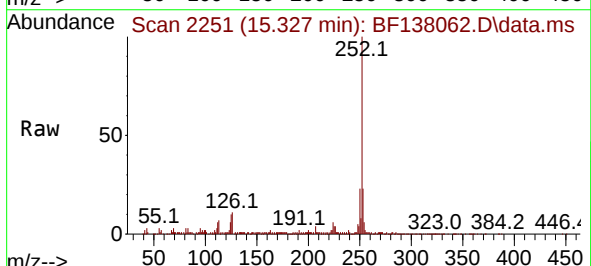
Tgt Ion:276 Resp: 31958  
Ion Ratio Lower Upper  
276 100  
138 20.4 20.6 30.8  
277 24.1 20.2 30.2

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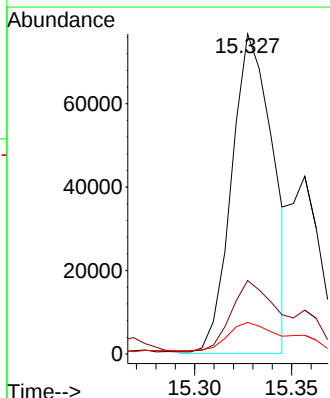
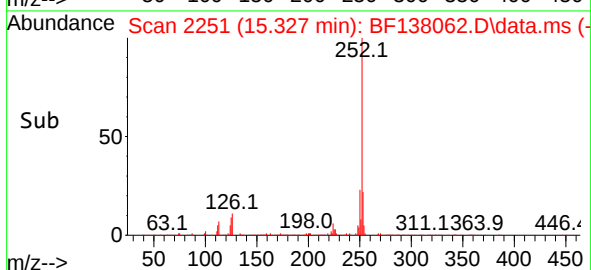
Reviewed By :Jagrut Upadhyay 05/30/2024  
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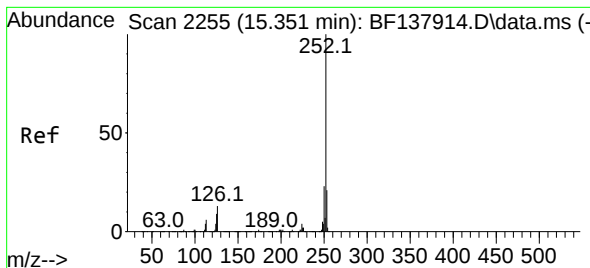


#88  
Benzo(b)fluoranthene  
Concen: 14.775 ng m  
RT: 15.327 min Scan# 2251  
Delta R.T. 0.012 min  
Lab File: BF138062.D  
Acq: 29 May 2024 16:38



Tgt Ion:252 Resp: 113614  
Ion Ratio Lower Upper  
252 100  
253 23.0 17.6 26.4  
125 9.9 8.2 12.4





#89

Benzo(k)fluoranthene

Concen: 6.054 ng m

RT: 15.357 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF138062.D

Acq: 29 May 2024 16:38

Instrument :

BNA\_F

ClientSampleId :

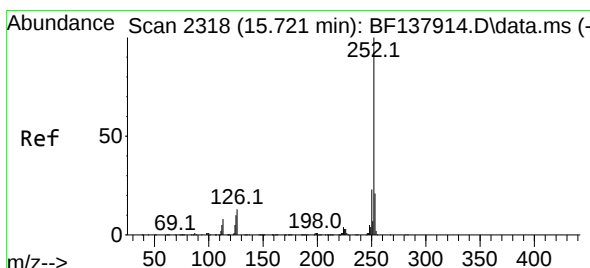
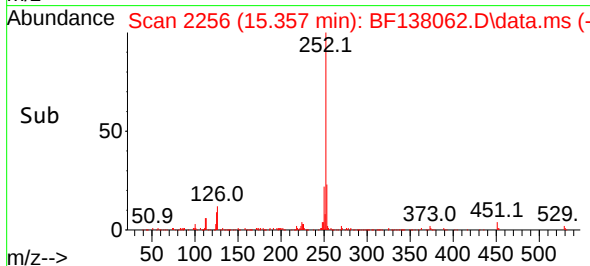
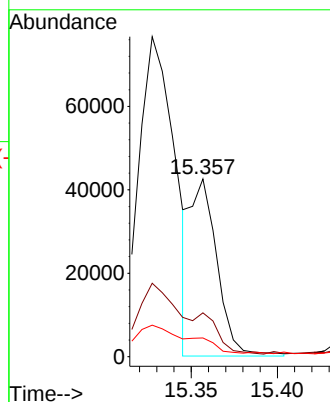
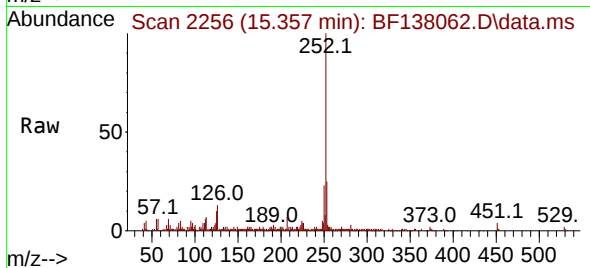
INT-PE1

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 252   | Resp: | 4573 |
| Ion Ratio | Lower | Upper |      |
| 252       | 100   |       |      |
| 253       | 24.7  | 17.4  | 26.0 |
| 125       | 10.5  | 7.7   | 11.5 |

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#90

Benzo(a)pyrene

Concen: 10.638 ng

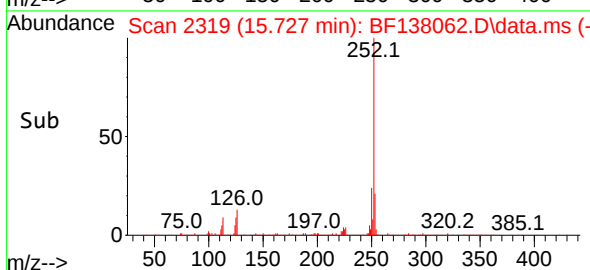
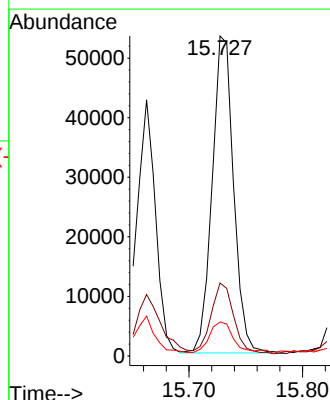
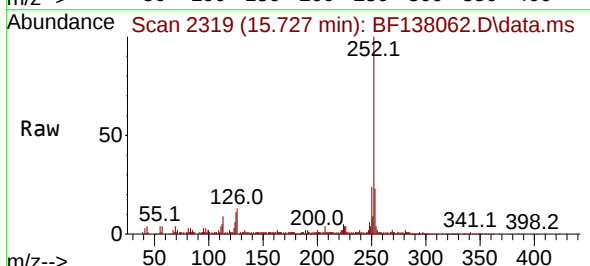
RT: 15.727 min Scan# 2319

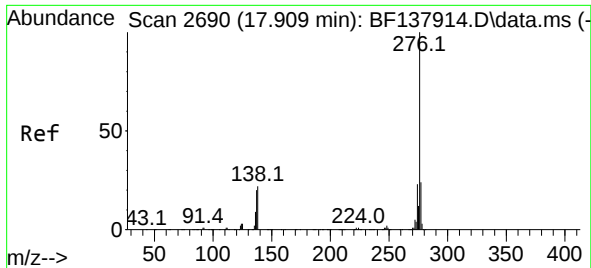
Delta R.T. 0.006 min

Lab File: BF138062.D

Acq: 29 May 2024 16:38

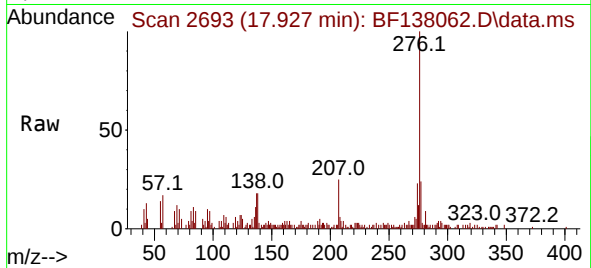
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 69854 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 22.8  | 17.0  | 25.6  |
| 125       | 10.6  | 7.8   | 11.8  |





#92  
Benzo(g,h,i)perylene  
Concen: 3.932 ng  
RT: 17.927 min Scan# 20  
Delta R.T. 0.018 min  
Lab File: BF138062.D  
Acq: 29 May 2024 16:38

Instrument :  
BNA\_F  
ClientSampleId :  
INT-PE1



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 29119 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 277       | 24.4  | 18.9  | 28.3  |
| 138       | 17.6  | 17.6  | 26.4  |

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