

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF082318\  
 Data File : BF108433.D  
 Acq On : 23 Aug 2018 21:00  
 Operator : JU/SJ  
 Sample : J4535-06 5X  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 RA-081618-NSW-15-038

Quant Time: Aug 24 01:05:55 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF080818.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Aug 22 11:01:45 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.00  | 152  | 153119   | 20.00 | ng    | -0.01    |
| 21) Naphthalene-d8        | 8.28  | 136  | 592138   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 10.04 | 164  | 292383   | 20.00 | ng    | -0.01    |
| 63) Phenanthrene-d10      | 11.54 | 188  | 526600   | 20.00 | ng    | -0.01    |
| 75) Chrysene-d12          | 14.19 | 240  | 311493   | 20.00 | ng    | -0.01    |
| 86) Perylene-d12          | 15.75 | 264  | 315456   | 20.00 | ng    | -0.01    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 5) 2-Fluorophenol           | 5.61  | 112  | 173995   | 20.57 | ng    | -0.02    |
| 7) Phenol-d6                | 6.61  | 99   | 241937   | 21.53 | ng    | -0.02    |
| 23) Nitrobenzene-d5         | 7.55  | 82   | 157862   | 14.88 | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol    | 10.84 | 330  | 59194    | 20.30 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl        | 9.35  | 172  | 313776   | 17.23 | ng    | -0.01    |
| 78) Terphenyl-d14           | 13.12 | 244  | 246083   | 20.09 | ng    | -0.01    |

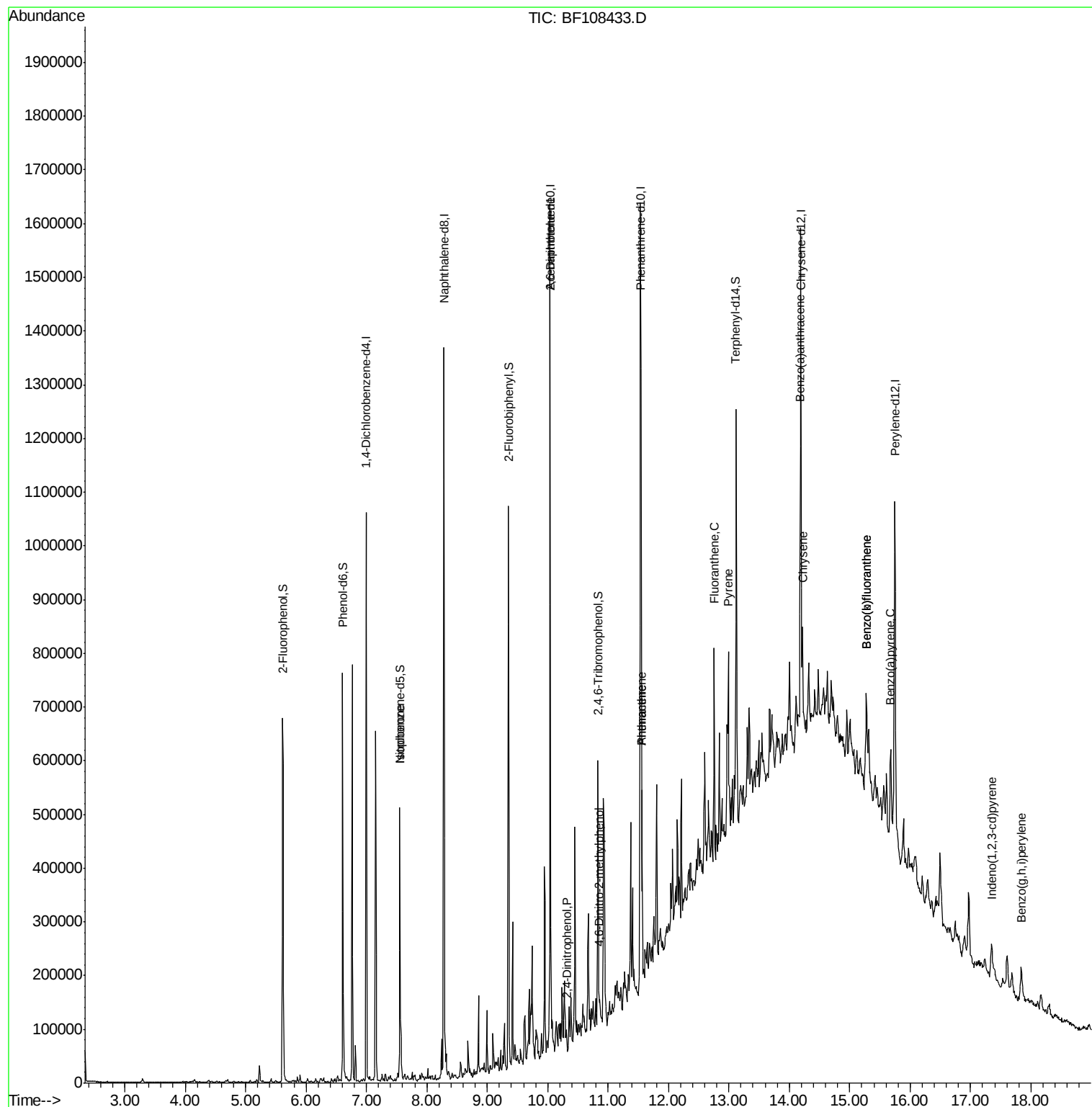
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 25) Isophorone                 | 7.55  | 82   | 154775   | 7.652 | ng    | # 64   |
| 50) 2,6-Dinitrotoluene         | 10.04 | 165  | 40352    | 9.470 | ng    | # 26   |
| 53) 2,4-Dinitrophenol          | 10.32 | 184  | 271      | 7.176 | ng    | # 1    |
| 64) 4,6-Dinitro-2-methylphenol | 10.85 | 198  | 845      | 5.738 | ng    | # 33   |
| 70) Phenanthrene               | 11.56 | 178  | 117815   | 4.743 | ng    | 99     |
| 71) Anthracene                 | 11.56 | 178  | 117815   | 4.628 | ng    | 99     |
| 74) Fluoranthene               | 12.75 | 202  | 155061   | 5.720 | ng    | 97     |
| 77) Pyrene                     | 12.99 | 202  | 136671   | 6.930 | ng    | 99     |
| 80) Benzo(a)anthracene         | 14.18 | 228  | 66772    | 3.735 | ng    | # 93   |
| 82) Chrysene                   | 14.22 | 228  | 71182    | 4.343 | ng    | # 95   |
| 85) Indeno(1,2,3-cd)pyrene     | 17.35 | 276  | 44267    | 3.117 | ng    | # 87   |
| 87) Benzo(b)fluoranthene       | 15.28 | 252  | 113184   | 6.005 | ng    | # 90   |
| 88) Benzo(k)fluoranthene       | 15.28 | 252  | 113184   | 6.532 | ng    | # 93   |
| 89) Benzo(a)pyrene             | 15.68 | 252  | 58486    | 3.465 | ng    | # 92   |
| 91) Benzo(g,h,i)perylene       | 17.84 | 276  | 47987    | 3.489 | ng    | # 90   |

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

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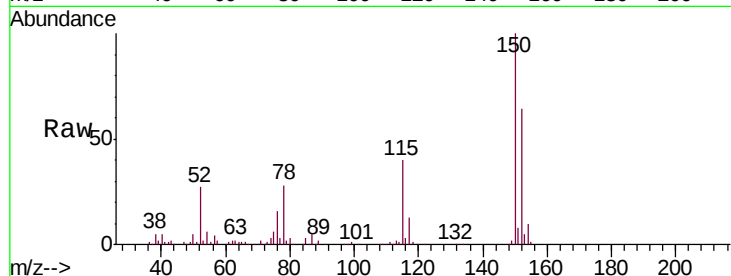


#1

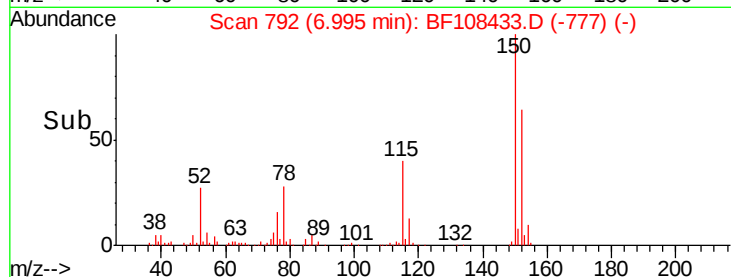
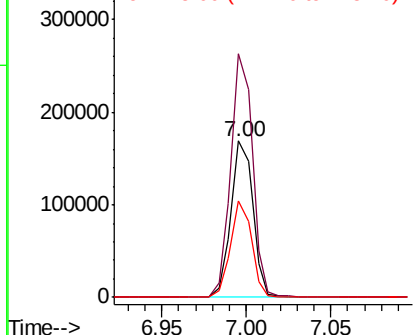
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.00 min Scan# 792  
Delta R.T. -0.01 min  
Lab File: BF108433.D  
Acq: 23 Aug 2018 21:00

Instrument :  
BNA\_F  
ClientSampleId :  
RA-081618-NSW-15-038

Tgt Ion:152 Resp: 153119  
Ion Ratio Lower Upper  
152 100  
150 156.1 124.6 186.8  
115 61.9 50.1 75.1



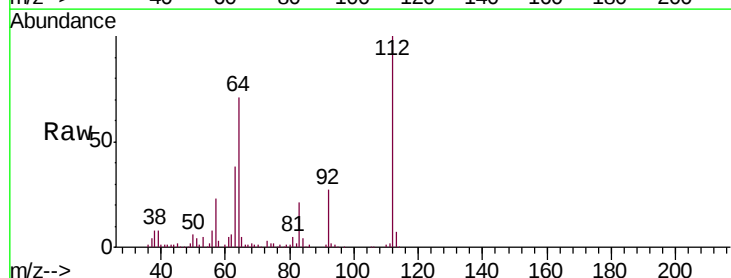
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



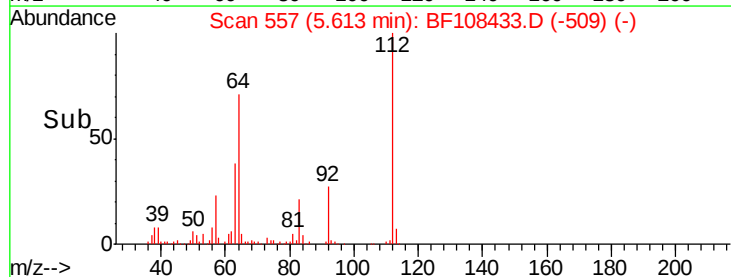
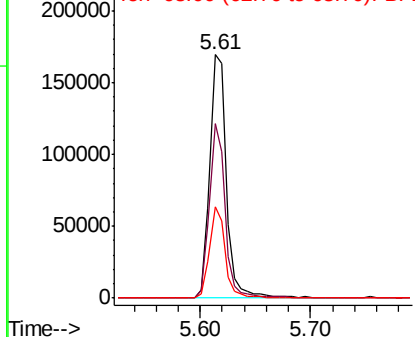
#5

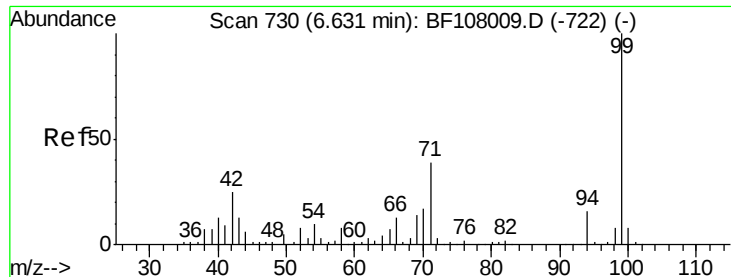
2-Fluorophenol  
Concen: 20.573 ng  
RT: 5.61 min Scan# 557  
Delta R.T. -0.02 min  
Lab File: BF108433.D  
Acq: 23 Aug 2018 21:00

Tgt Ion:112 Resp: 173995  
Ion Ratio Lower Upper  
112 100  
64 71.5 47.9 71.9  
63 37.6 23.7 35.5#



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BF1  
Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 21.527 ng

RT: 6.61 min Scan# 726

Delta R.T. -0.02 min

Lab File: BF108433.D

Acq: 23 Aug 2018 21:00

Instrument :

BNA\_F

ClientSampleId :

RA-081618-NSW-15-038

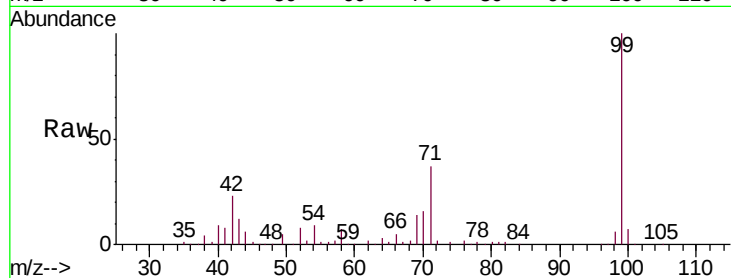
Tgt Ion: 99 Resp: 241937

Ion Ratio Lower Upper

99 100

42 23.2 14.5 21.7#

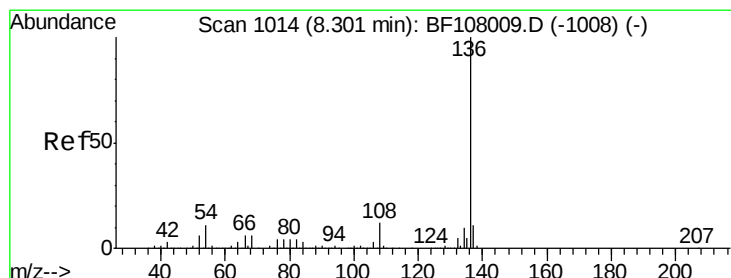
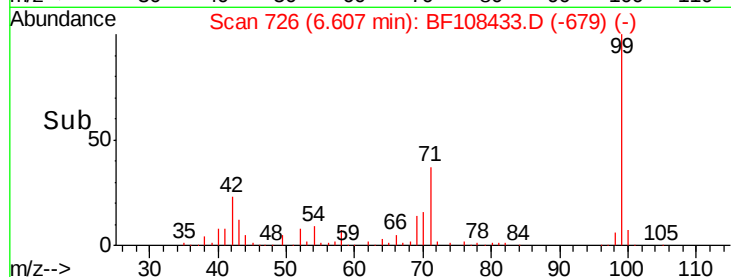
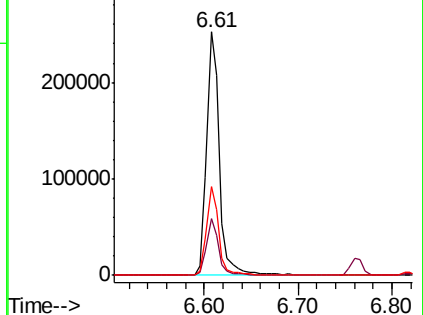
71 36.6 25.4 38.0



Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.28 min Scan# 1011

Delta R.T. -0.01 min

Lab File: BF108433.D

Acq: 23 Aug 2018 21:00

Tgt Ion: 136 Resp: 592138

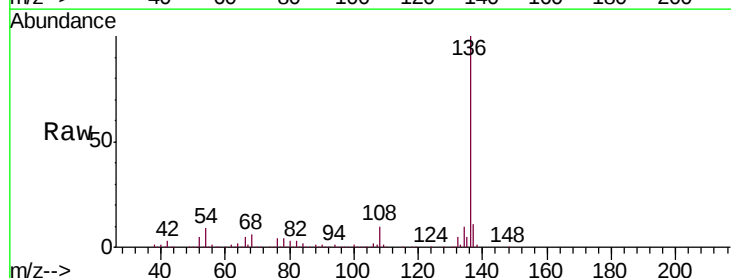
Ion Ratio Lower Upper

136 100

137 10.9 8.9 13.3

54 9.2 6.6 9.8

68 5.6 5.0 7.4

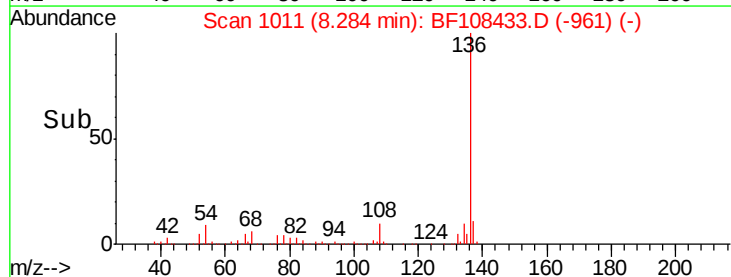
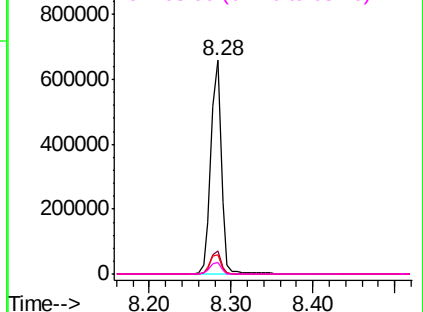


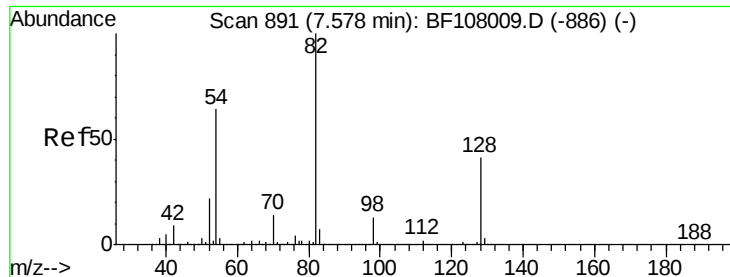
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1

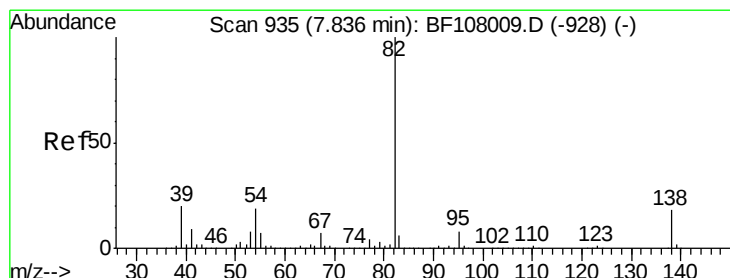
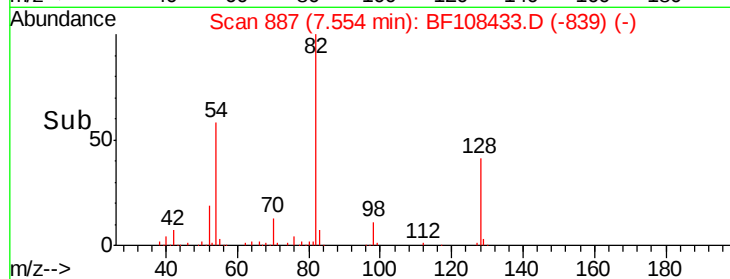
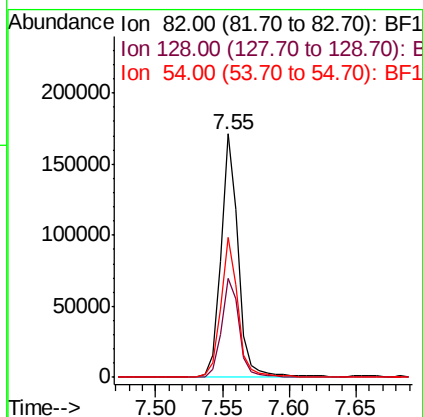
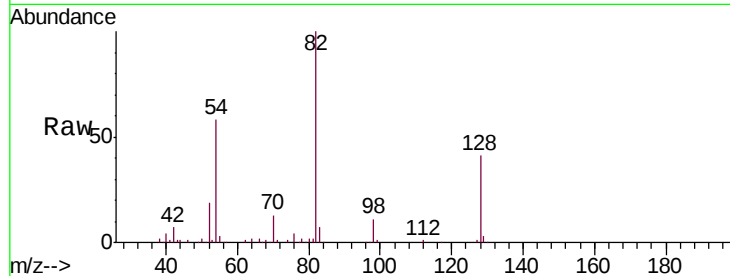




#23  
 Nitrobenzene-d5  
 Concen: 14.876 ng  
 RT: 7.55 min Scan# 887  
 Delta R.T. -0.02 min  
 Lab File: BF108433.D  
 Acq: 23 Aug 2018 21:00

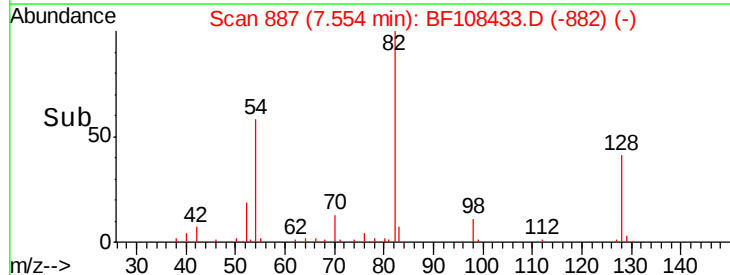
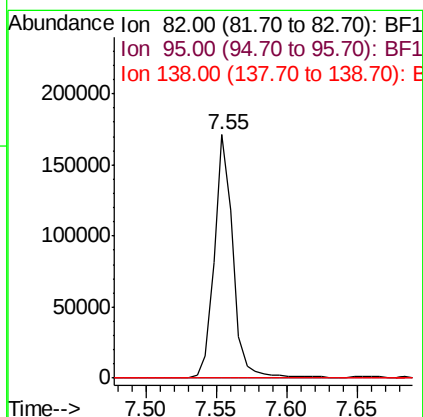
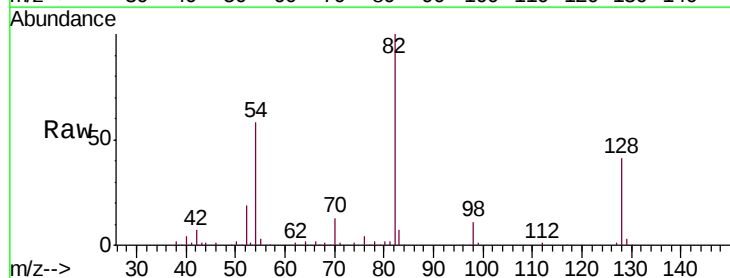
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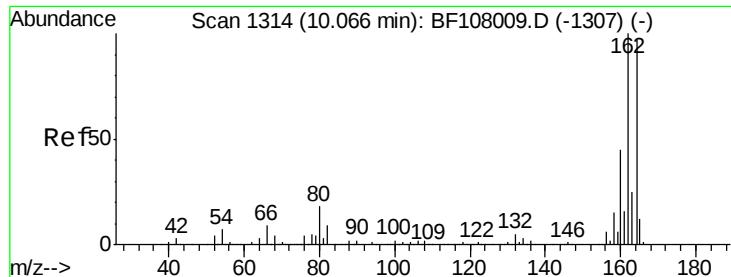
Tgt Ion: 82 Resp: 157862  
 Ion Ratio Lower Upper  
 82 100  
 128 40.7 36.1 54.1  
 54 57.6 41.4 62.2



#25  
 Isophorone  
 Concen: 7.652 ng  
 RT: 7.55 min Scan# 887  
 Delta R.T. -0.27 min  
 Lab File: BF108433.D  
 Acq: 23 Aug 2018 21:00

Tgt Ion: 82 Resp: 154775  
 Ion Ratio Lower Upper  
 82 100  
 95 0.0 5.2 7.8#  
 138 0.0 14.9 22.3#

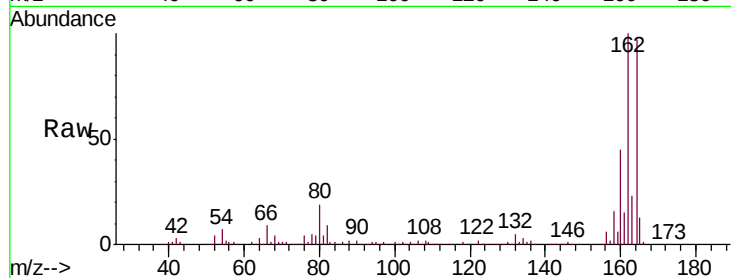




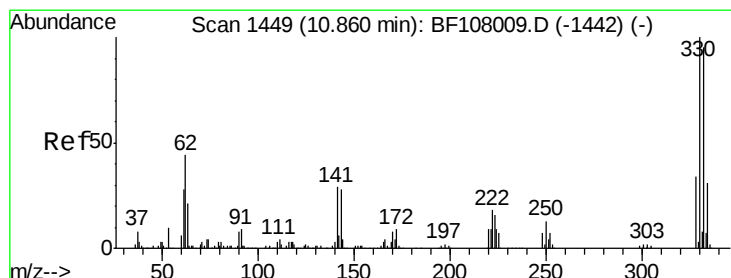
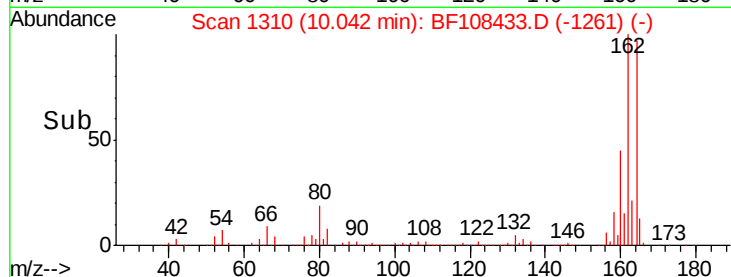
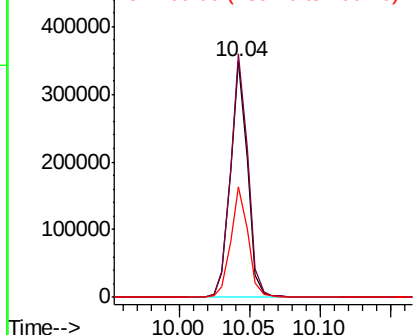
#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 10.04 min Scan# 1310  
Delta R.T. -0.01 min  
Lab File: BF108433.D  
Acq: 23 Aug 2018 21:00

Instrument :  
BNA\_F  
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RA-081618-NSW-15-038

Tgt Ion:164 Resp: 292383  
Ion Ratio Lower Upper  
164 100  
162 103.4 86.1 129.1  
160 46.7 38.3 57.5

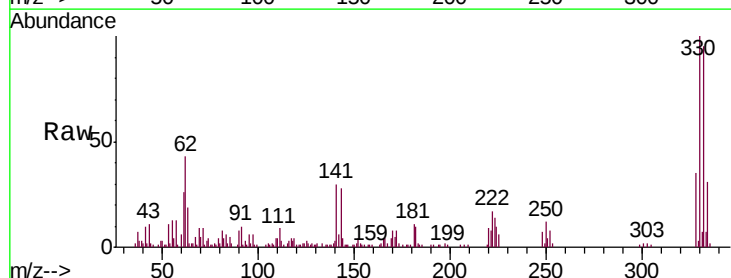


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

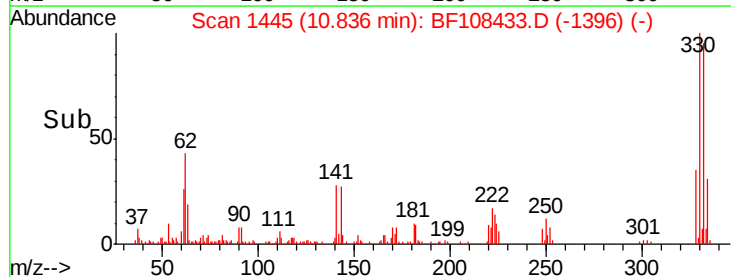
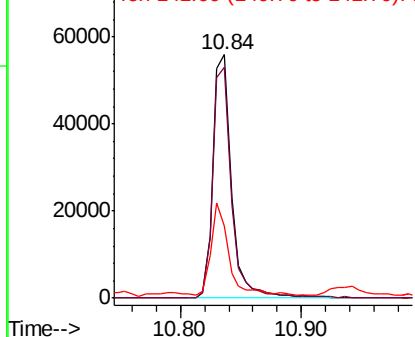


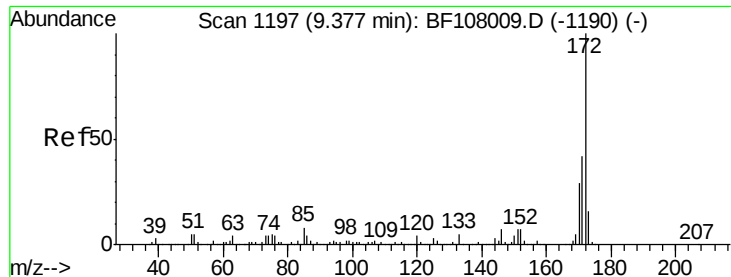
#41  
2,4,6-Tribromophenol  
Concen: 20.297 ng  
RT: 10.84 min Scan# 1445  
Delta R.T. -0.01 min  
Lab File: BF108433.D  
Acq: 23 Aug 2018 21:00

Tgt Ion:330 Resp: 59194  
Ion Ratio Lower Upper  
330 100  
332 94.6 77.0 115.6  
141 35.1 29.9 44.9



Abundance Ion 329.80 (329.50 to 330.50): E  
Ion 331.80 (331.50 to 332.50): E  
Ion 141.00 (140.70 to 141.70): E

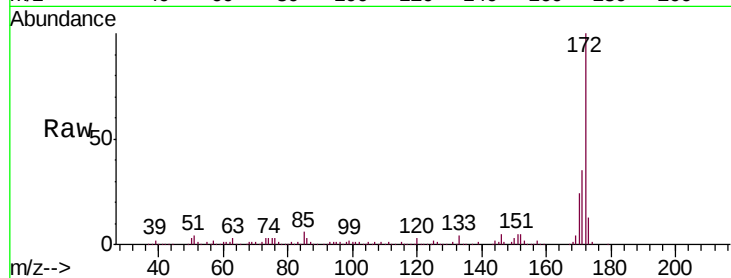




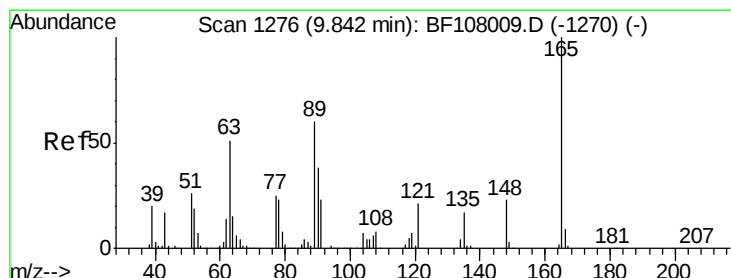
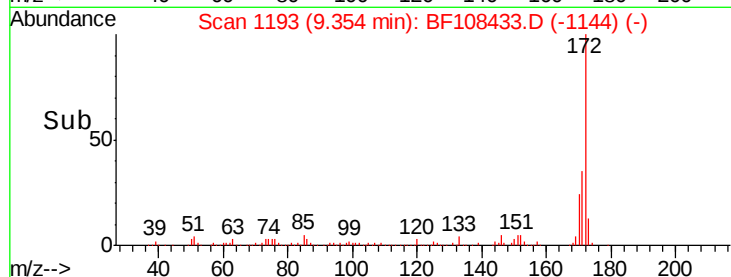
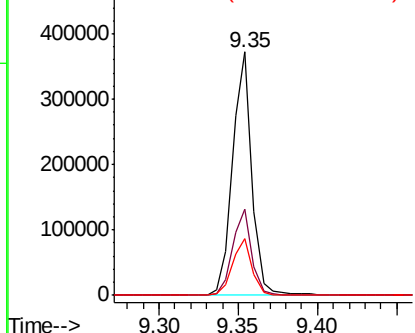
#44  
 2-Fluorobiphenyl  
 Concen: 17.229 ng  
 RT: 9.35 min Scan# 1193  
 Delta R.T. -0.01 min  
 Lab File: BF108433.D  
 Acq: 23 Aug 2018 21:00

Instrument :  
 BNA\_F  
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 RA-081618-NSW-15-038

Tgt Ion:172 Resp: 313776  
 Ion Ratio Lower Upper  
 172 100  
 171 35.4 29.7 44.5  
 170 23.5 19.6 29.4

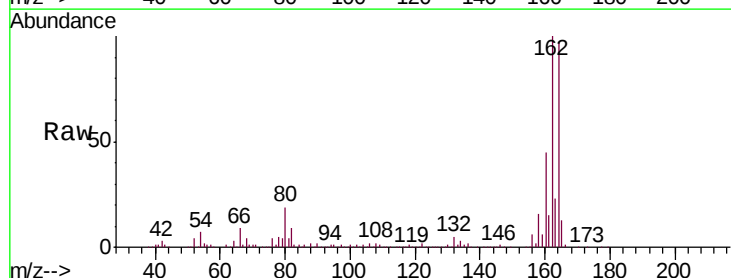


Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

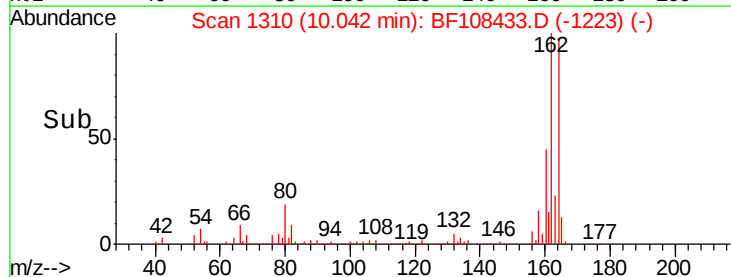
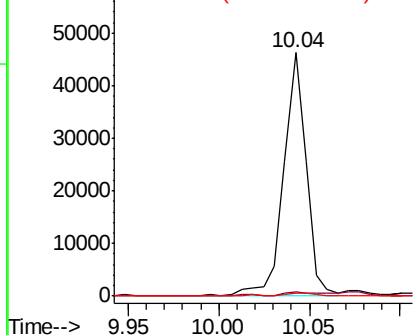


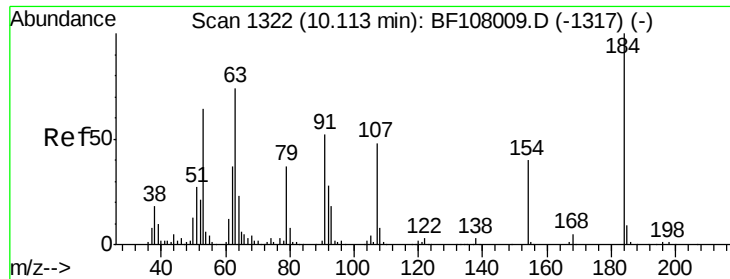
#50  
 2,6-Dinitrotoluene  
 Concen: 9.470 ng  
 RT: 10.04 min Scan# 1310  
 Delta R.T. 0.21 min  
 Lab File: BF108433.D  
 Acq: 23 Aug 2018 21:00

Tgt Ion:165 Resp: 40352  
 Ion Ratio Lower Upper  
 165 100  
 63 1.7 44.7 67.1#  
 89 1.5 44.0 66.0#



Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BF1  
 Ion 89.00 (88.70 to 89.70): BF1

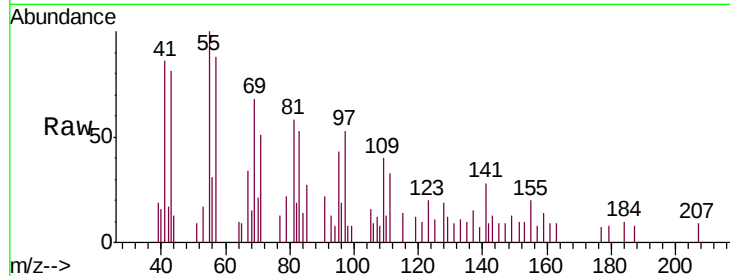




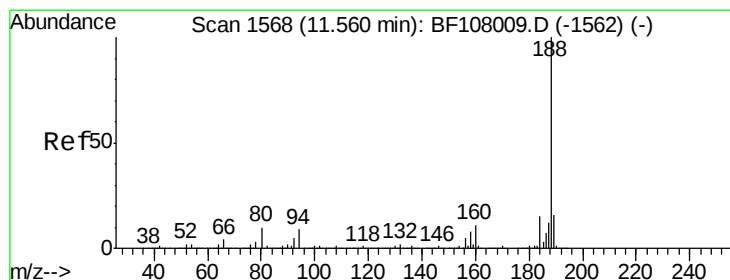
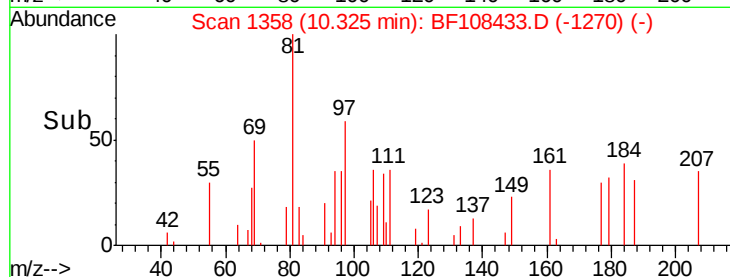
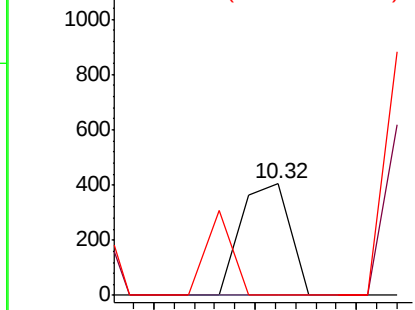
#53  
2,4-Dinitrophenol  
Concen: 7.176 ng  
RT: 10.32 min Scan# 1358  
Delta R.T. 0.22 min  
Lab File: BF108433.D  
Acq: 23 Aug 2018 21:00

Instrument :  
BNA\_F  
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RA-081618-NSW-15-038

Tgt Ion:184 Resp: 271  
Ion Ratio Lower Upper  
184 100  
63 0.0 54.2 81.2#  
154 0.0 184.0 276.0#

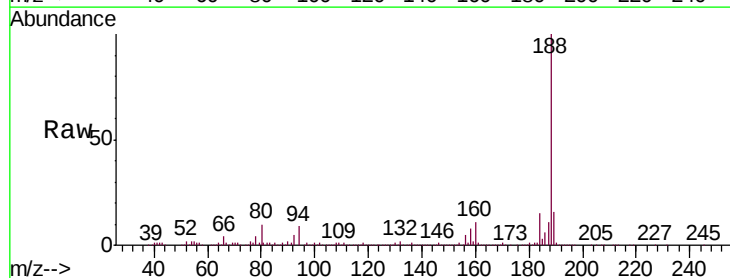


Abundance Ion 184.00 (183.70 to 184.70): E  
Ion 63.00 (62.70 to 63.70): BF1  
Ion 154.00 (153.70 to 154.70): E

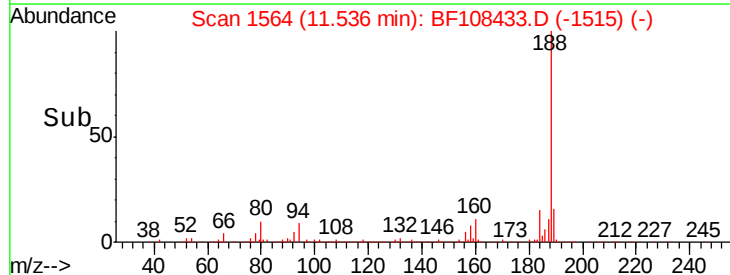
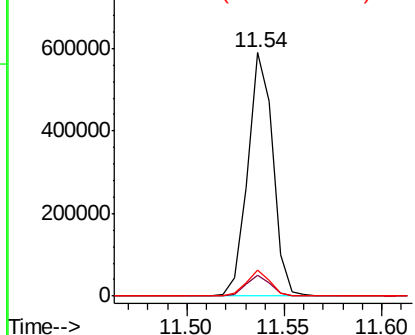


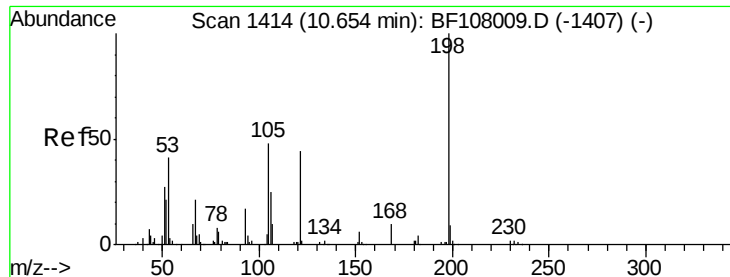
#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.54 min Scan# 1564  
Delta R.T. -0.01 min  
Lab File: BF108433.D  
Acq: 23 Aug 2018 21:00

Tgt Ion:188 Resp: 526600  
Ion Ratio Lower Upper  
188 100  
94 8.8 8.5 12.7  
80 10.5 9.2 13.8



Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF1  
Ion 80.00 (79.70 to 80.70): BF1

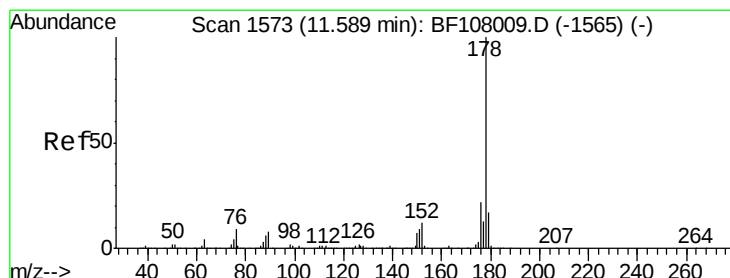
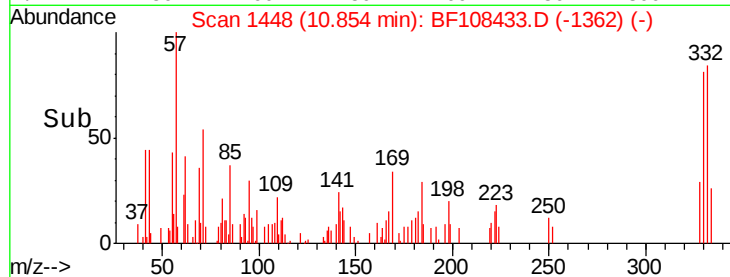
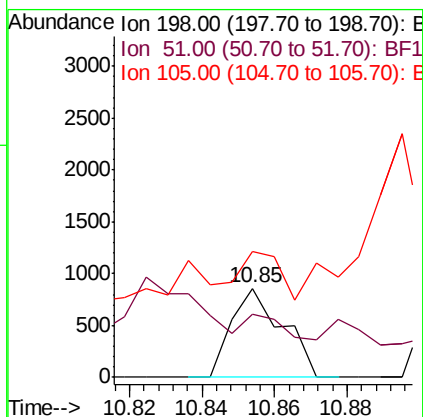
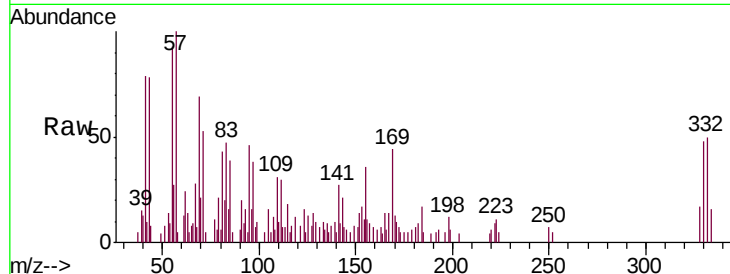




#64  
 4,6-Dinitro-2-methylphenol  
 Concen: 5.738 ng  
 RT: 10.85 min Scan# 1448  
 Delta R.T. 0.21 min  
 Lab File: BF108433.D  
 Acq: 23 Aug 2018 21:00

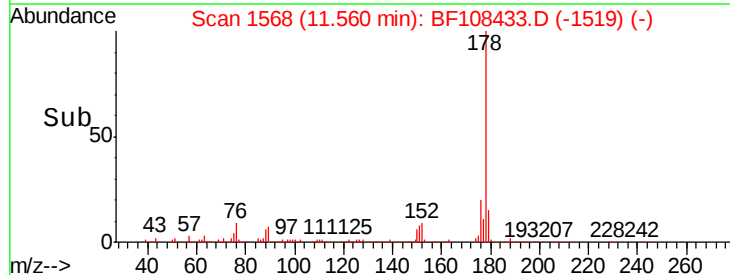
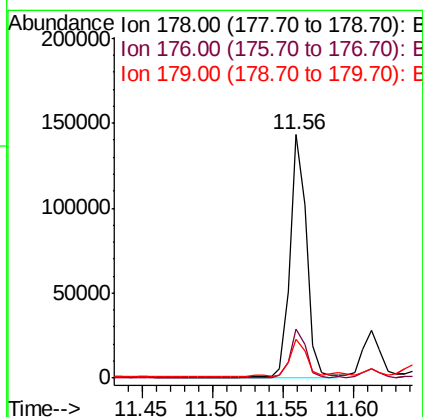
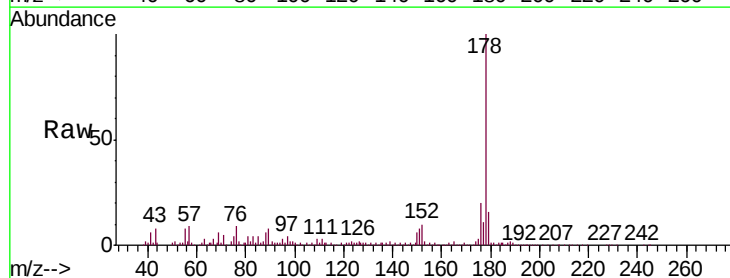
Instrument :  
 BNA\_F  
 ClientSampleId :  
 RA-081618-NSW-15-038

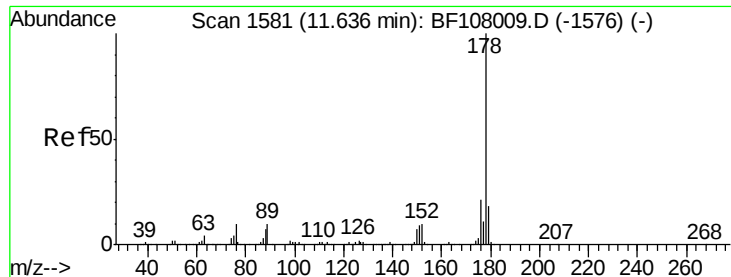
Tgt Ion:198 Resp: 845  
 Ion Ratio Lower Upper  
 198 100  
 51 71.5 37.7 77.7  
 105 141.0 36.3 76.3#



#70  
 Phenanthrene  
 Concen: 4.743 ng  
 RT: 11.56 min Scan# 1568  
 Delta R.T. -0.01 min  
 Lab File: BF108433.D  
 Acq: 23 Aug 2018 21:00

Tgt Ion:178 Resp: 117815  
 Ion Ratio Lower Upper  
 178 100  
 176 20.0 15.8 23.8  
 179 16.0 13.0 19.6





#71

Anthracene

Concen: 4.628 ng

RT: 11.56 min Scan# 1568

Delta R.T. -0.06 min

Lab File: BF108433.D

Acq: 23 Aug 2018 21:00

Instrument :

BNA\_F

ClientSampleId :

RA-081618-NSW-15-038

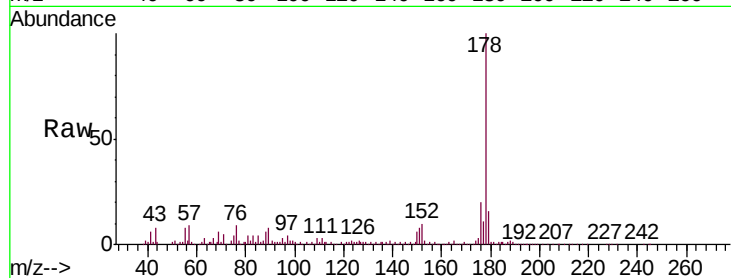
Tgt Ion:178 Resp: 117815

Ion Ratio Lower Upper

178 100

176 20.0 15.4 23.2

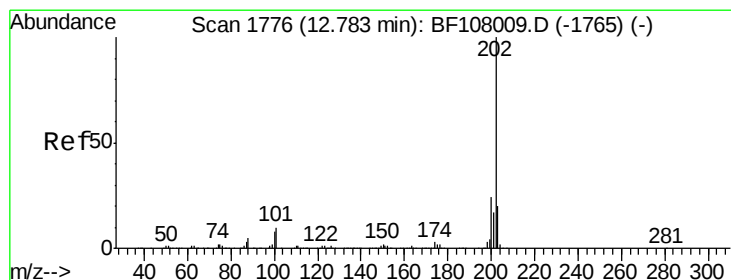
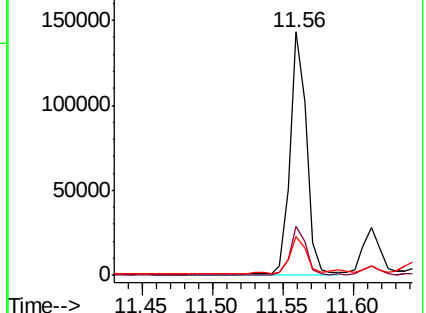
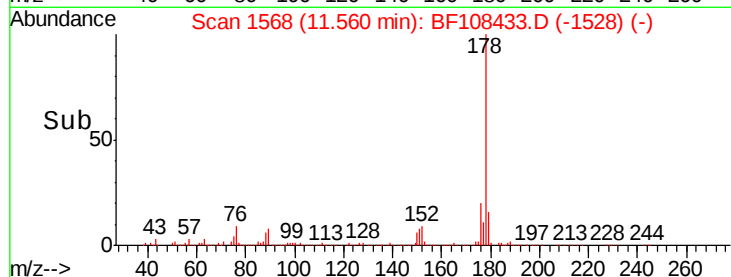
179 16.0 12.6 19.0



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#74

Fluoranthene

Concen: 5.720 ng

RT: 12.75 min Scan# 1771

Delta R.T. -0.01 min

Lab File: BF108433.D

Acq: 23 Aug 2018 21:00

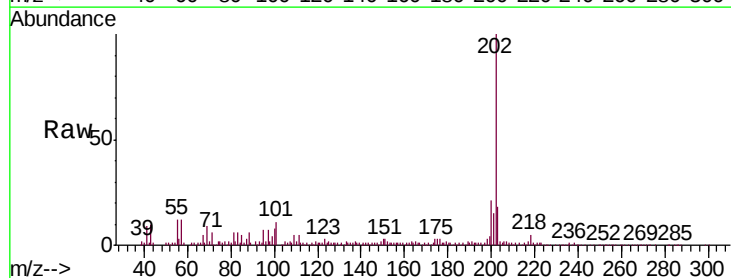
Tgt Ion:202 Resp: 155061

Ion Ratio Lower Upper

202 100

101 11.1 0.0 34.1

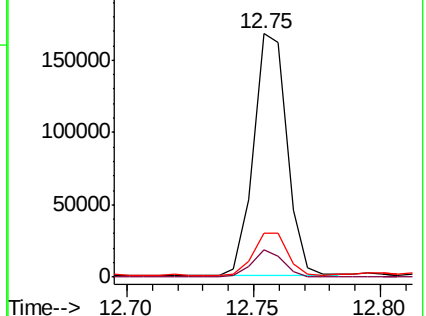
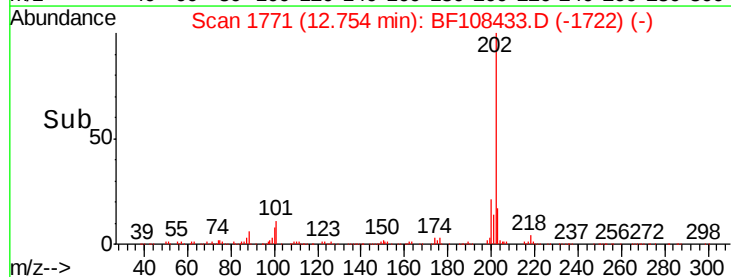
203 18.0 0.0 38.1

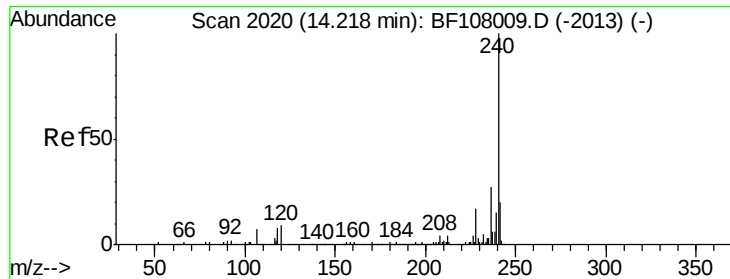


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.19 min Scan# 2015

Delta R.T. -0.01 min

Lab File: BF108433.D

Acq: 23 Aug 2018 21:00

Instrument :

BNA\_F

ClientSampleId :

RA-081618-NSW-15-038

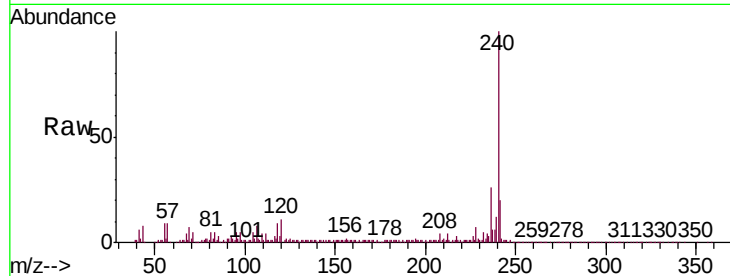
Tgt Ion:240 Resp: 311493

Ion Ratio Lower Upper

240 100

120 11.0 9.5 14.3

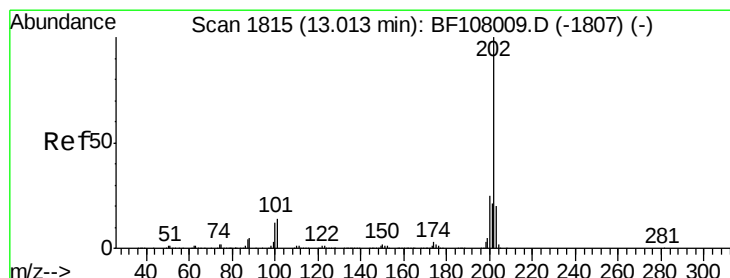
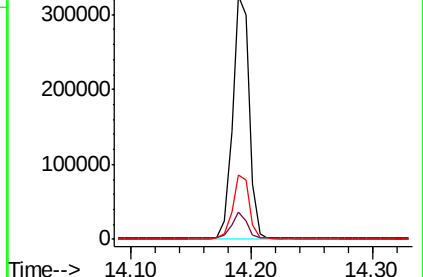
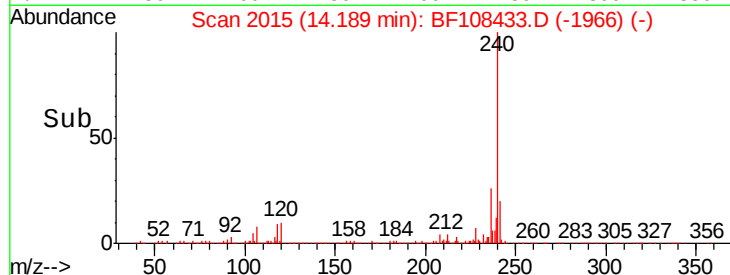
236 26.3 20.7 31.1



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 6.930 ng

RT: 12.99 min Scan# 1811

Delta R.T. -0.01 min

Lab File: BF108433.D

Acq: 23 Aug 2018 21:00

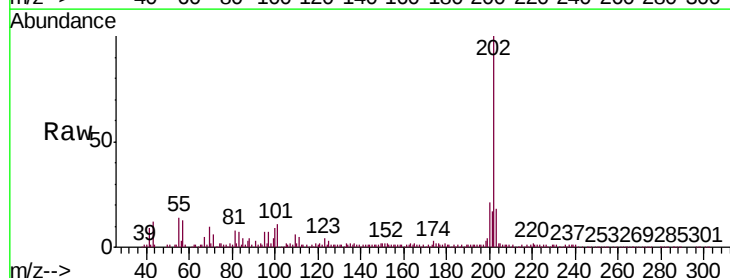
Tgt Ion:202 Resp: 136671

Ion Ratio Lower Upper

202 100

200 20.9 17.4 26.2

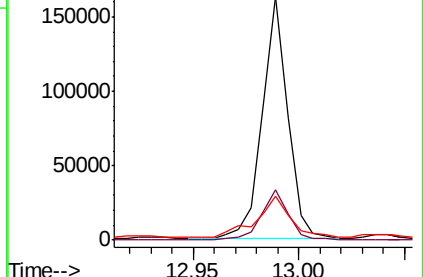
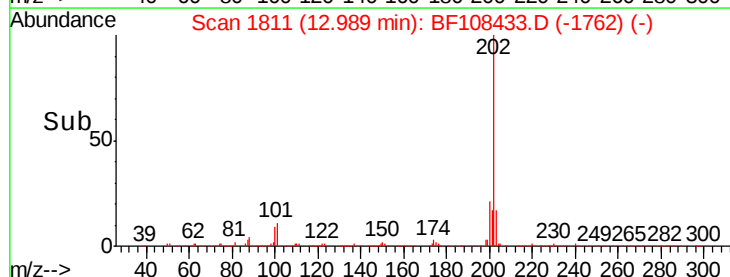
203 18.1 14.3 21.5

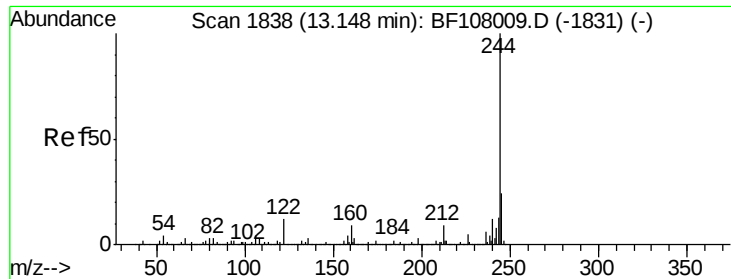


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 20.087 ng

RT: 13.12 min Scan# 1833

Delta R.T. -0.01 min

Lab File: BF108433.D

Acq: 23 Aug 2018 21:00

Instrument :

BNA\_F

ClientSampleId :

RA-081618-NSW-15-038

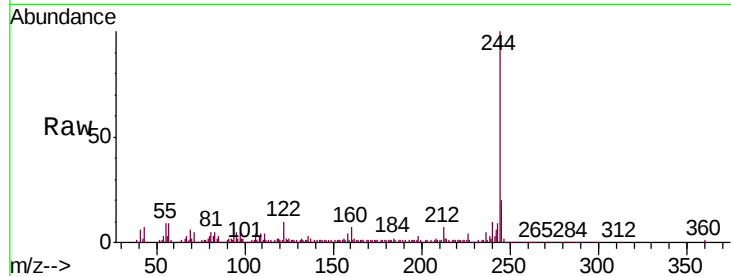
Tgt Ion:244 Resp: 246083

Ion Ratio Lower Upper

244 100

212 6.9 5.4 8.0

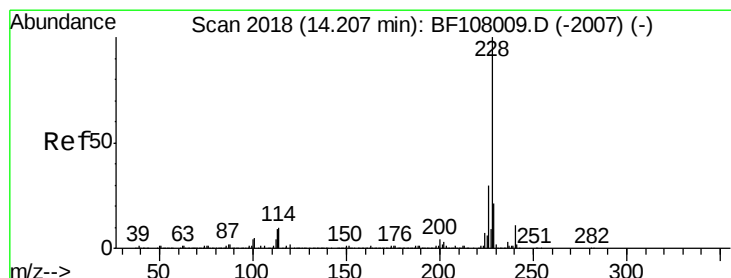
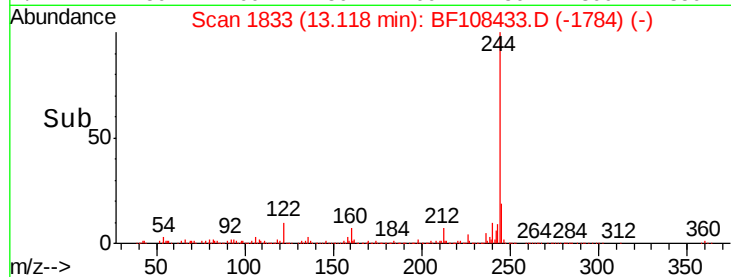
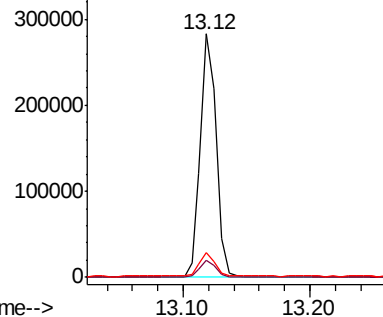
122 10.3 11.0 16.4#



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 3.735 ng

RT: 14.18 min Scan# 2013

Delta R.T. -0.01 min

Lab File: BF108433.D

Acq: 23 Aug 2018 21:00

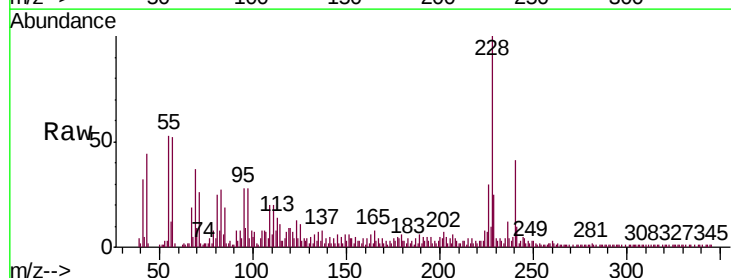
Tgt Ion:228 Resp: 66772

Ion Ratio Lower Upper

228 100

226 29.5 22.6 33.8

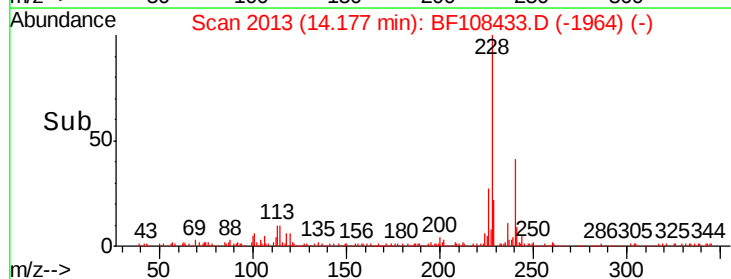
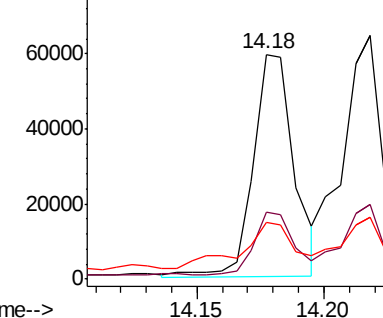
229 25.3 15.8 23.6#

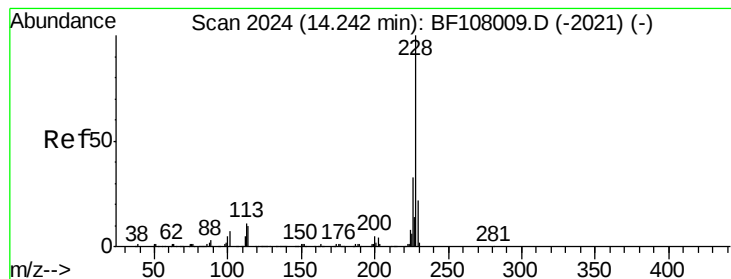


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 4.343 ng

RT: 14.22 min Scan# 2020

Delta R.T. -0.01 min

Lab File: BF108433.D

Acq: 23 Aug 2018 21:00

Instrument :

BNA\_F

ClientSampleId :

RA-081618-NSW-15-038

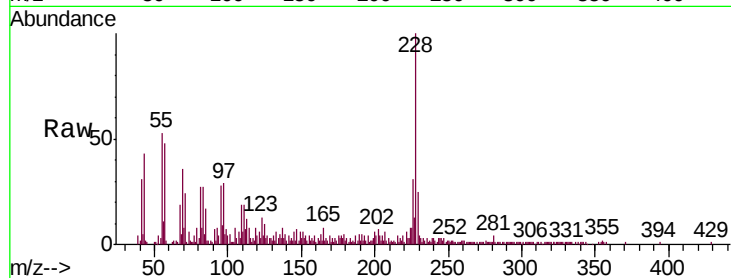
Tgt Ion:228 Resp: 71182

Ion Ratio Lower Upper

228 100

226 30.7 25.0 37.6

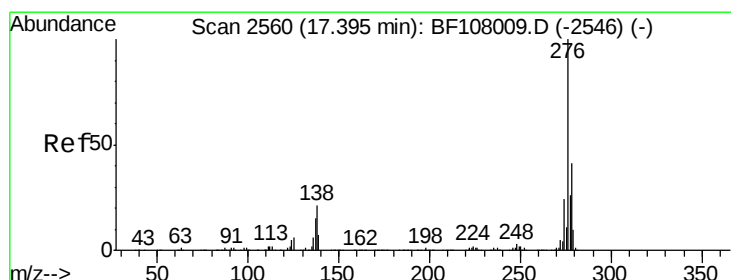
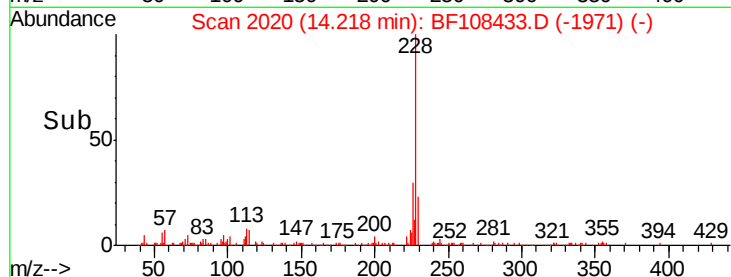
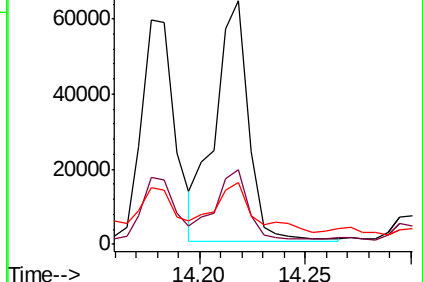
229 25.4 16.2 24.4#



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#85

Indeno(1,2,3-cd)pyrene

Concen: 3.117 ng

RT: 17.35 min Scan# 2552

Delta R.T. -0.02 min

Lab File: BF108433.D

Acq: 23 Aug 2018 21:00

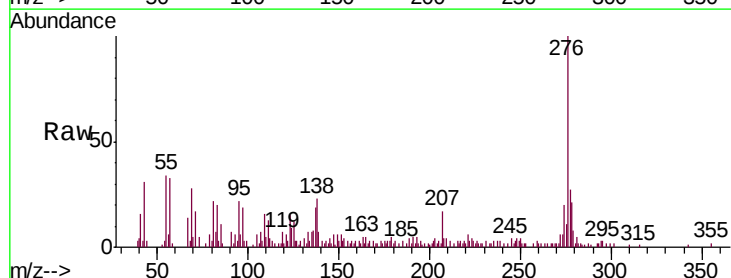
Tgt Ion:276 Resp: 44267

Ion Ratio Lower Upper

276 100

138 20.4 25.0 37.6#

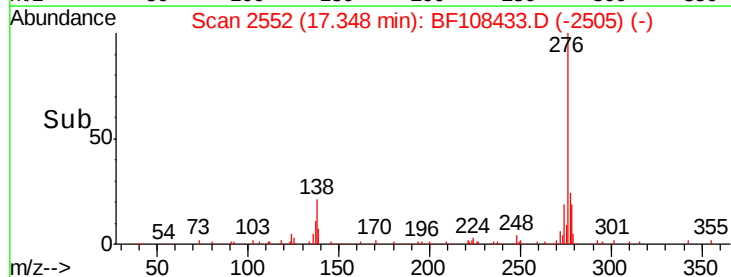
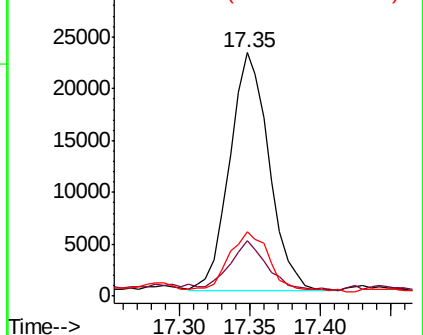
277 27.3 20.1 30.1

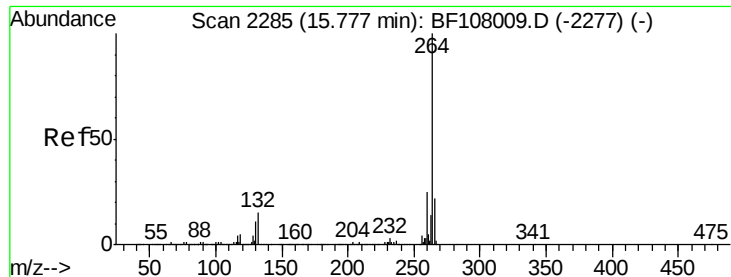


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.75 min Scan# 2280

Delta R.T. -0.01 min

Lab File: BF108433.D

Acq: 23 Aug 2018 21:00

Instrument :

BNA\_F

ClientSampleId :

RA-081618-NSW-15-038

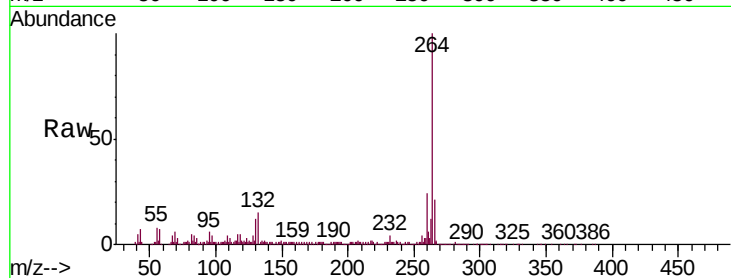
Tgt Ion:264 Resp: 315456

Ion Ratio Lower Upper

264 100

260 24.1 19.2 28.8

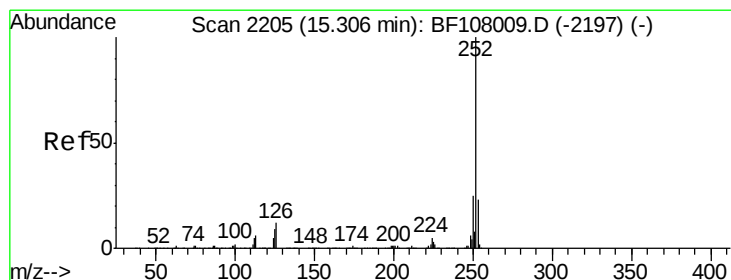
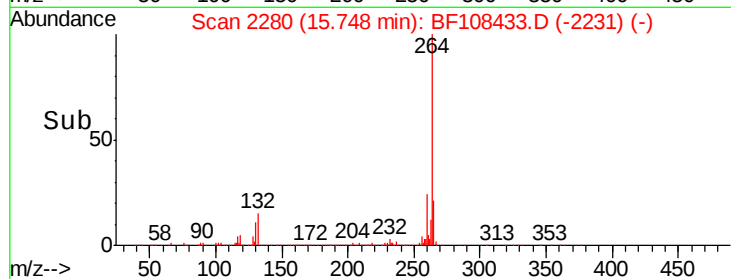
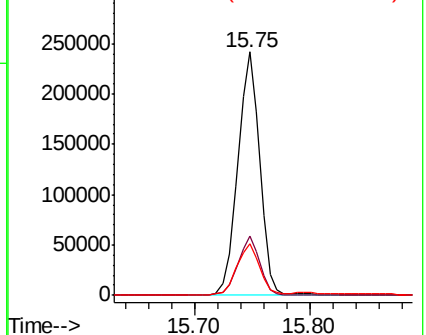
265 21.4 17.5 26.3



Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E



#87

Benzo(b)fluoranthene

Concen: 6.005 ng

RT: 15.28 min Scan# 2200

Delta R.T. -0.01 min

Lab File: BF108433.D

Acq: 23 Aug 2018 21:00

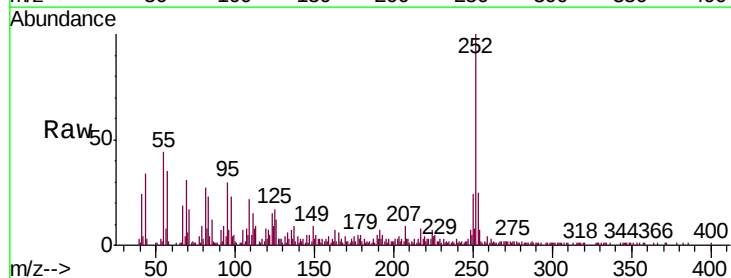
Tgt Ion:252 Resp: 113184

Ion Ratio Lower Upper

252 100

253 25.3 17.0 25.6

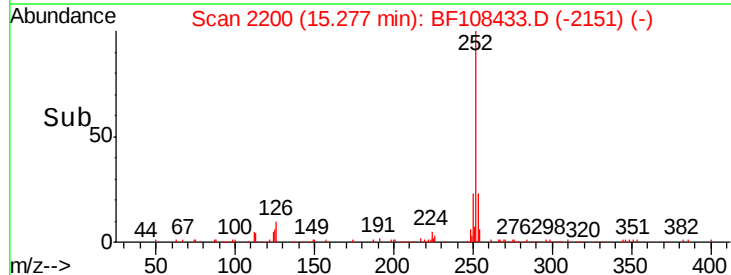
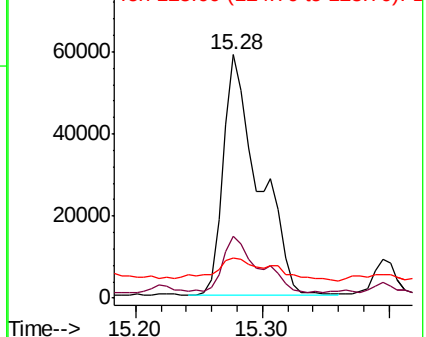
125 16.7 9.0 13.6#

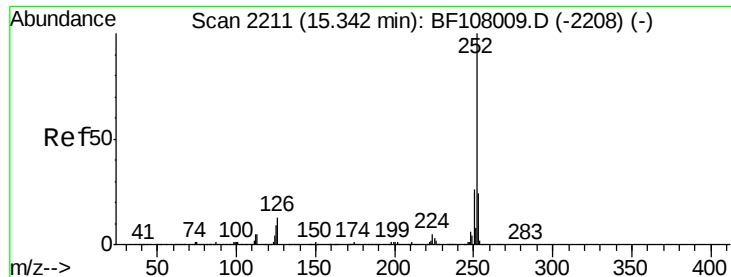


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

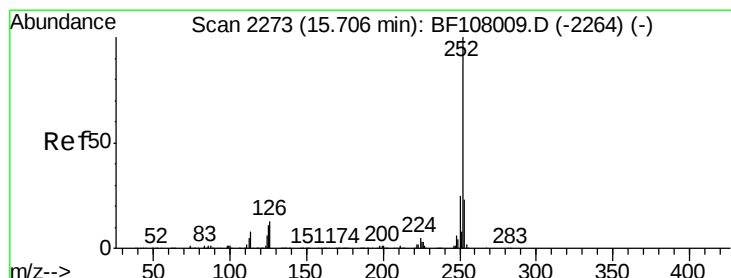
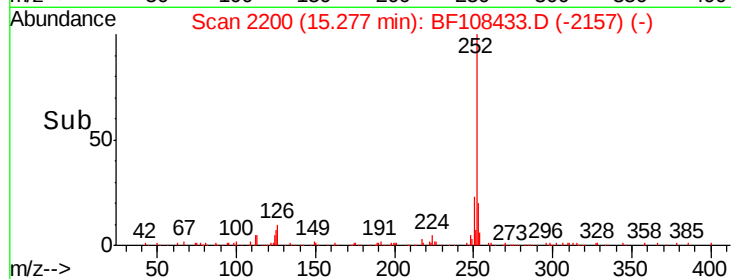
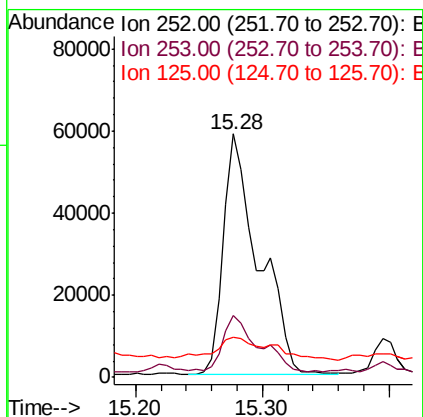
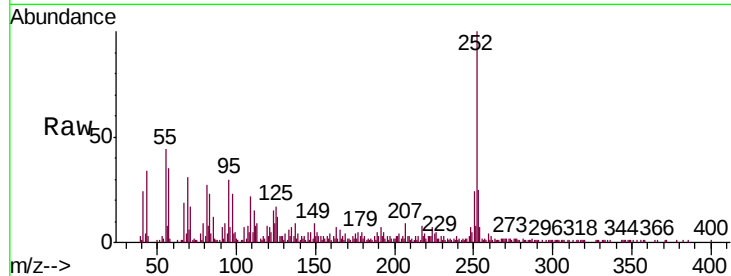




#88  
Benzo(k)fluoranthene  
Concen: 6.532 ng  
RT: 15.28 min Scan# 2200  
Delta R.T. -0.05 min  
Lab File: BF108433.D  
Acq: 23 Aug 2018 21:00

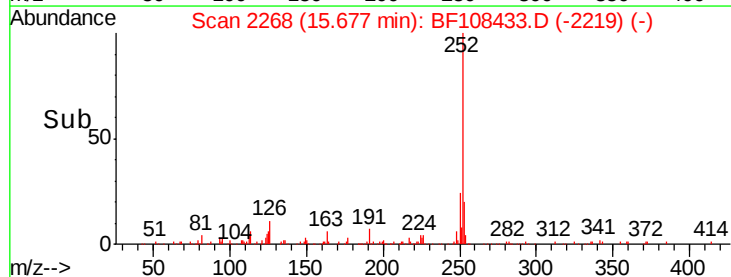
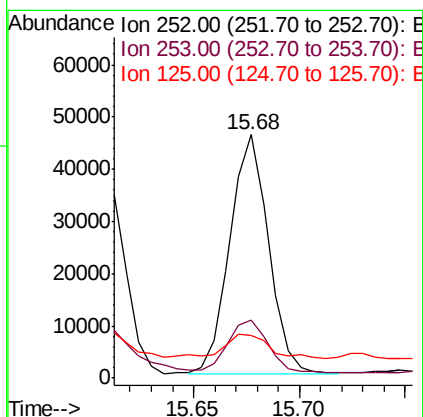
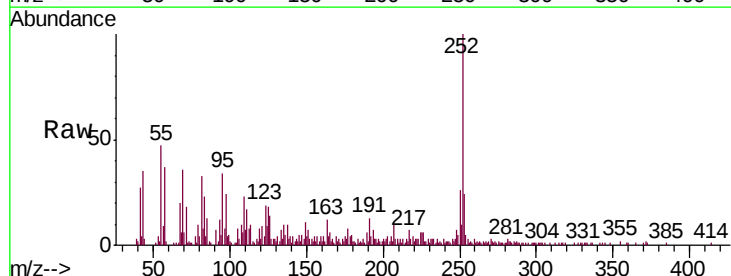
Instrument :  
BNA\_F  
ClientSampleId :  
RA-081618-NSW-15-038

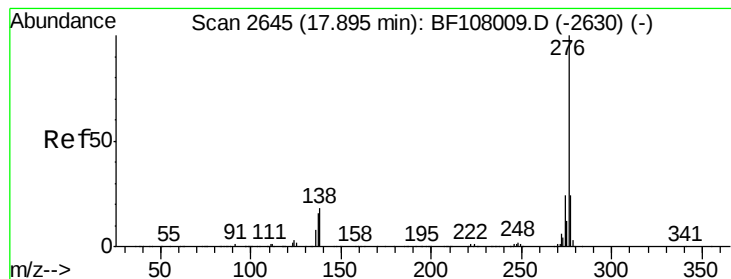
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.3  | 17.9  | 26.9  |
| 125     | 16.7  | 10.2  | 15.2  |



#89  
Benzo(a)pyrene  
Concen: 3.465 ng  
RT: 15.68 min Scan# 2268  
Delta R.T. -0.01 min  
Lab File: BF108433.D  
Acq: 23 Aug 2018 21:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.7  | 17.1  | 25.7  |
| 125     | 17.6  | 9.8   | 14.6  |





#91

Benzo(g,h,i)perylene

Concen: 3.489 ng

RT: 17.84 min Scan# 2636

Delta R.T. -0.02 min

Lab File: BF108433.D

Acq: 23 Aug 2018 21:00

Instrument :

BNA\_F

ClientSampleId :

RA-081618-NSW-15-038

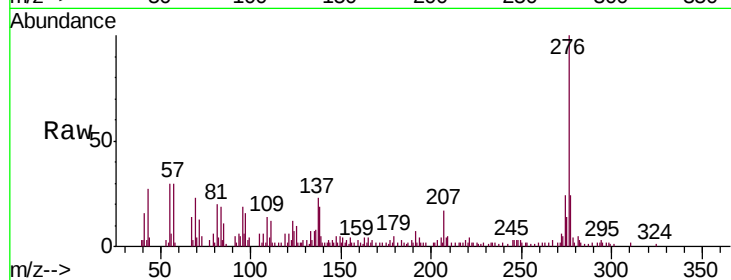
Tgt Ion: 276 Resp: 47987

Ion Ratio Lower Upper

276 100

277 24.2 17.9 26.9

138 19.3 21.8 32.8#



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

