

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF091517\  
 Data File : BF098559.D  
 Acq On : 15 Sep 2017 10:27  
 Operator : SJ/JU  
 Sample : I5159-06  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 G-9-1

Quant Time: Sep 15 13:23:08 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF091117.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Sep 15 13:23:10 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.65  | 152  | 135206   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 7.93  | 136  | 552840   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 9.68  | 164  | 240938   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.16 | 188  | 388226   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 13.81 | 240  | 258742   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.22 | 264  | 284873   | 20.00 | ng    | 0.02     |

## System Monitoring Compounds

|                          |       |     |         |        |    |      |
|--------------------------|-------|-----|---------|--------|----|------|
| 5) 2-Fluorophenol        | 5.25  | 112 | 1005356 | 109.94 | ng | 0.00 |
| 7) Phenol-d6             | 6.30  | 99  | 1247710 | 107.46 | ng | 0.00 |
| 23) Nitrobenzene-d5      | 7.22  | 82  | 760906  | 76.73  | ng | 0.00 |
| 41) 2,4,6-Tribromophenol | 10.47 | 330 | 219445  | 136.47 | ng | 0.00 |
| 44) 2-Fluorobiphenyl     | 9.00  | 172 | 1341133 | 94.34  | ng | 0.00 |
| 78) Terphenyl-d14        | 12.75 | 244 | 906800  | 75.65  | ng | 0.00 |

## Target Compounds

|                                |       |     |         |        |    | Qvalue |
|--------------------------------|-------|-----|---------|--------|----|--------|
| 9) Benzaldehyde                | 6.42  | 77  | 23253   | 3.064  | ng | 85     |
| 10) Phenol                     | 6.32  | 94  | 36924   | 2.738  | ng | 81     |
| 19) n-Nitroso-di-n-propylamine | 7.22  | 70  | 101707  | 13.926 | ng | # 78   |
| 25) Isophorone                 | 7.22  | 82  | 759459  | 37.853 | ng | # 67   |
| 31) Naphthalene                | 7.95  | 128 | 380088  | 13.907 | ng | 99     |
| 32) Benzoic acid               | 7.75  | 122 | 3042    | 8.404  | ng | # 26   |
| 33) 4-Chloroaniline            | 7.95  | 127 | 50780   | 4.572  | ng | # 33   |
| 37) 2-Methylnaphthalene        | 8.64  | 142 | 237674  | 14.357 | ng | 98     |
| 45) 1,1'-Biphenyl              | 9.10  | 154 | 96842   | 4.491  | ng | 95     |
| 48) Acenaphthylene             | 9.54  | 152 | 165609  | 7.232  | ng | 99     |
| 49) Dimethylphthalate          | 9.40  | 163 | 182545  | 9.788  | ng | 99     |
| 51) Acenaphthene               | 9.71  | 154 | 76026   | 5.223  | ng | 95     |
| 53) 2,4-Dinitrophenol          | 9.96  | 184 | 1025    | 9.031  | ng | # 34   |
| 54) Dibenzofuran               | 9.88  | 168 | 306554  | 15.986 | ng | 96     |
| 55) 4-Nitrophenol              | 9.88  | 139 | 120952  | 45.523 | ng | # 29   |
| 57) Fluorene                   | 10.23 | 166 | 81952   | 5.163  | ng | 99     |
| 64) 4,6-Dinitro-2-methylphenol | 10.42 | 198 | 247     | 5.057  | ng | # 1    |
| 66) 4-Bromophenyl-phenylether  | 10.47 | 248 | 16389   | 4.448  | ng | # 1    |
| 69) Pentachlorophenol          | 10.99 | 266 | 418     | 7.169  | ng | # 18   |
| 70) Phenanthrene               | 11.19 | 178 | 899835  | 43.722 | ng | 98     |
| 71) Anthracene                 | 11.24 | 178 | 381736  | 18.066 | ng | 97     |
| 72) Carbazole                  | 11.40 | 167 | 151504  | 7.693  | ng | 98     |
| 74) Fluoranthene               | 12.38 | 202 | 1743215 | 84.609 | ng | 100    |
| 77) Pyrene                     | 12.61 | 202 | 1594815 | 78.134 | ng | 99     |
| 80) Benzo(a)anthracene         | 13.80 | 228 | 789367  | 52.036 | ng | 96     |
| 82) Chrysene                   | 13.83 | 228 | 929763  | 60.634 | ng | 97     |
| 83) Bis(2-ethylhexyl)phthalate | 13.79 | 149 | 105448  | 9.489  | ng | # 100  |
| 87) Benzo(b)fluoranthene       | 14.83 | 252 | 1657621 | 92.542 | ng | 98     |
| 88) Benzo(k)fluoranthene       | 14.83 | 252 | 1657621 | 99.128 | ng | 97     |
| 89) Benzo(a)pyrene             | 15.16 | 252 | 525278  | 32.917 | ng | 96     |
| 90) Dibenzo(a,h)anthracene     | 16.38 | 278 | 64804   | 5.583  | ng | 93     |
| 91) Benzo(a,h,i)perylene       | 16.97 | 276 | 352116  | 30.158 | ng | 93     |

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Misc :  
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Instrument :  
BNA\_F  
ClientSampleId :  
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Quant Time: Sep 15 13:23:08 2017  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF091117.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Sep 15 13:23:10 2017  
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------|------|------|----------|------|-------|----------|
|--------------------|------|------|----------|------|-------|----------|

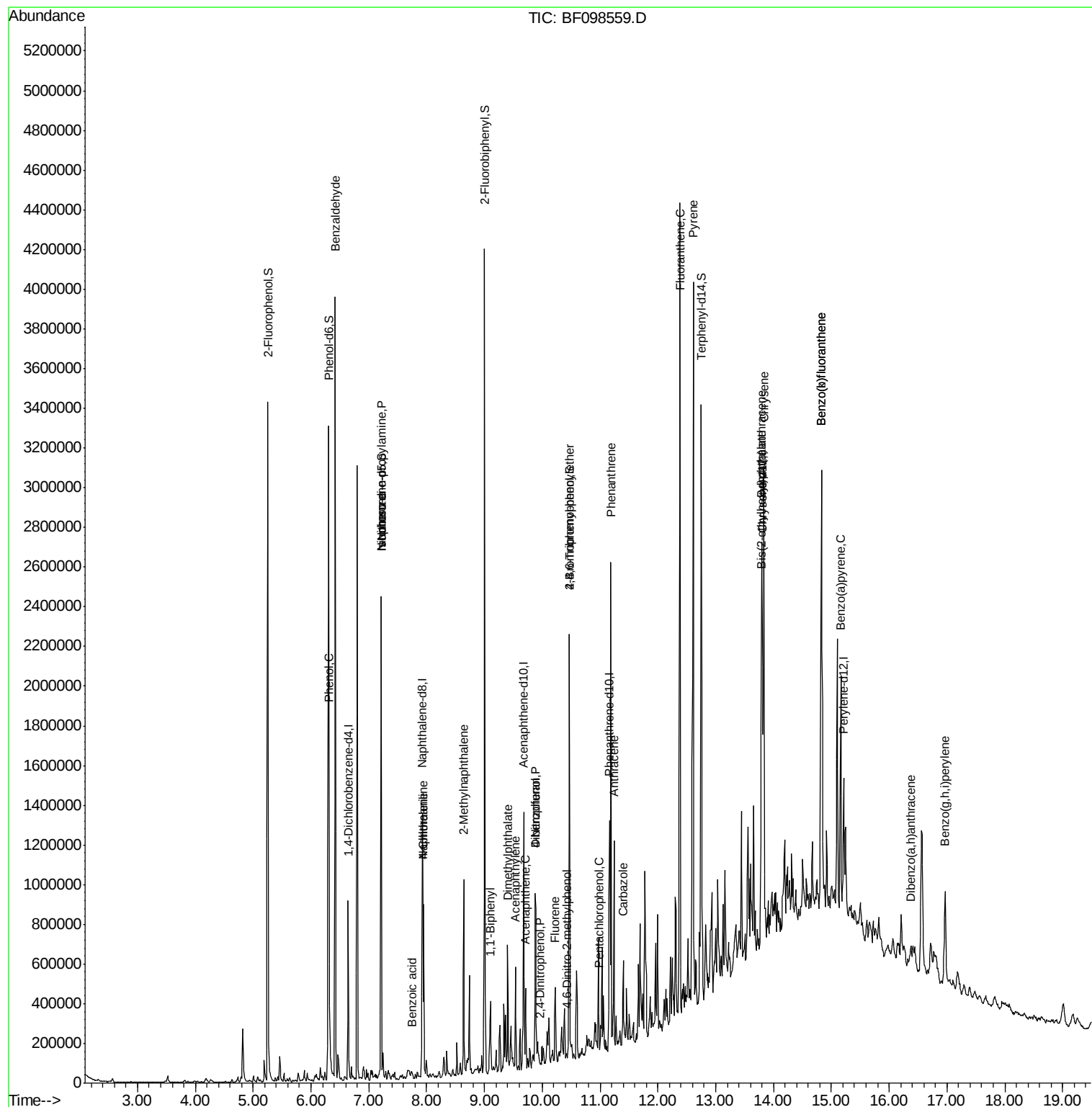
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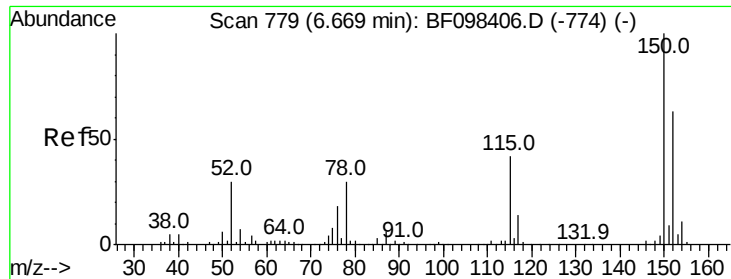
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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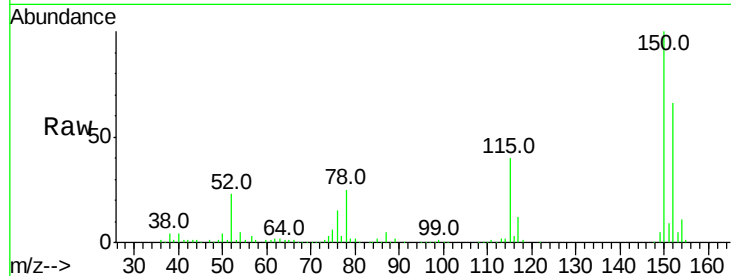


#1

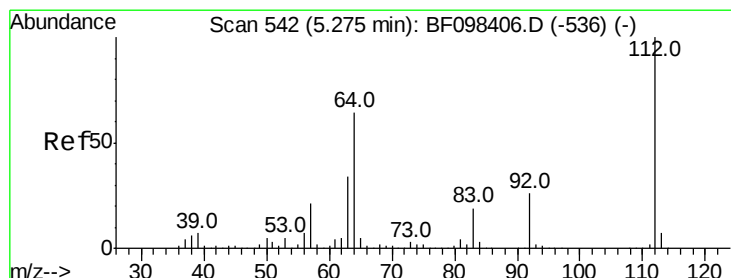
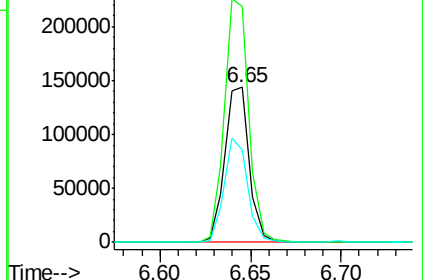
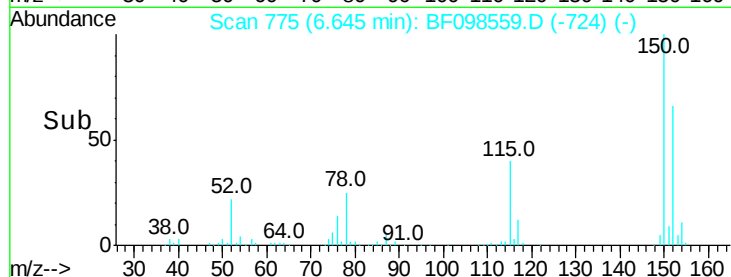
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.65 min Scan# 775  
Delta R.T. 0.00 min  
Lab File: BF098559.D  
Acq: 15 Sep 2017 10:27

Instrument :  
BNA\_F  
ClientSampleId :  
G-9-1

Tot Ion:152 Resp: 135206  
Ion Ratio Lower Upper  
152 100  
150 151.7 126.2 189.2  
115 60.0 52.2 78.2



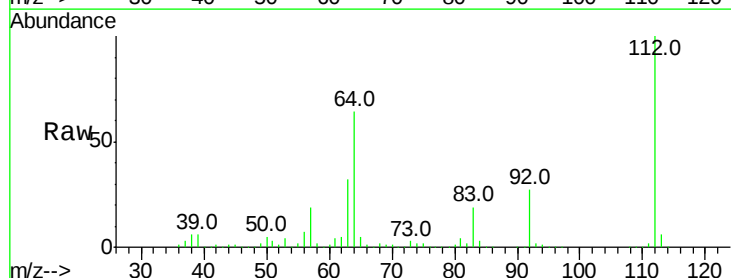
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



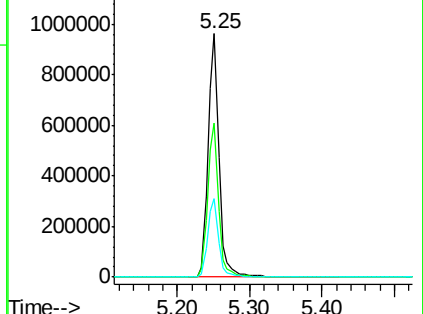
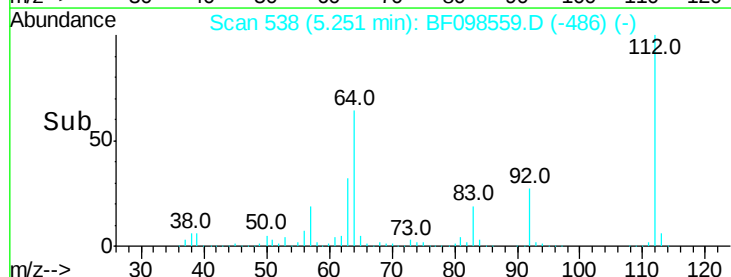
#5

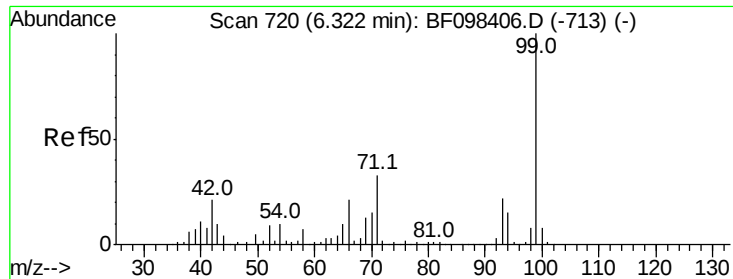
2-Fluorophenol  
Concen: 109.939 ng  
RT: 5.25 min Scan# 538  
Delta R.T. 0.01 min  
Lab File: BF098559.D  
Acq: 15 Sep 2017 10:27

Tgt Ion:112 Resp: 1005356  
Ion Ratio Lower Upper  
112 100  
64 63.5 46.0 69.0  
63 32.1 23.4 35.0



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BF0  
Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 107.463 ng

RT: 6.30 min Scan# 717

Delta R.T. 0.01 min

Lab File: BF098559.D

Acq: 15 Sep 2017 10:27

Instrument :

BNA\_F

ClientSampleId :

G-9-1

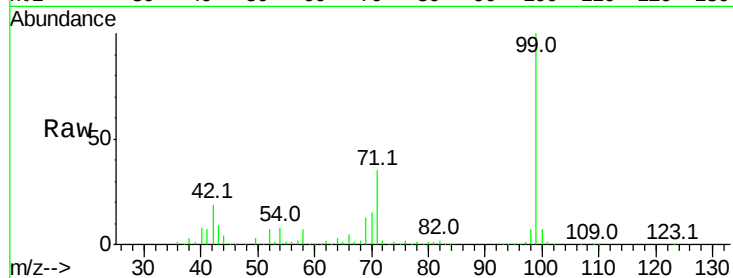
Tot Ion: 99 Resp: 1247710

Ion Ratio Lower Upper

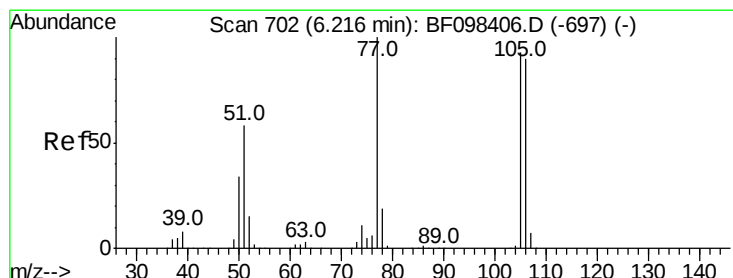
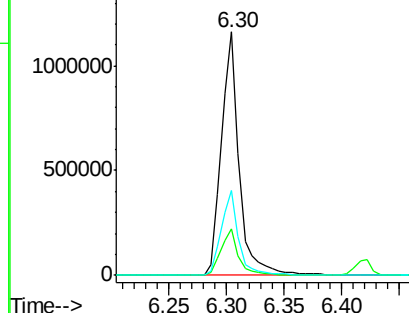
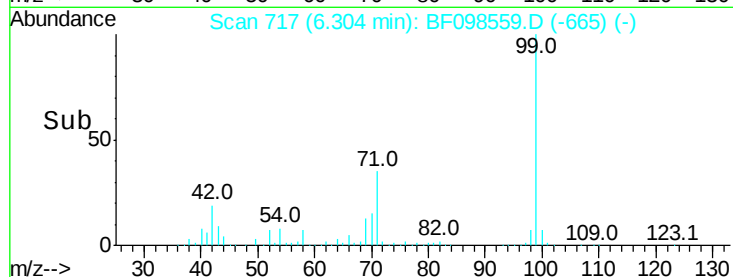
99 100

42 18.9 13.5 20.3

71 34.7 24.5 36.7



Abundance Ion 99.00 (98.70 to 99.70): BF0  
Ion 42.00 (41.70 to 42.70): BF0  
Ion 71.00 (70.70 to 71.70): BF0



#9

Benzaldehyde

Concen: 3.064 ng

RT: 6.42 min Scan# 737

Delta R.T. 0.22 min

Lab File: BF098559.D

Acq: 15 Sep 2017 10:27

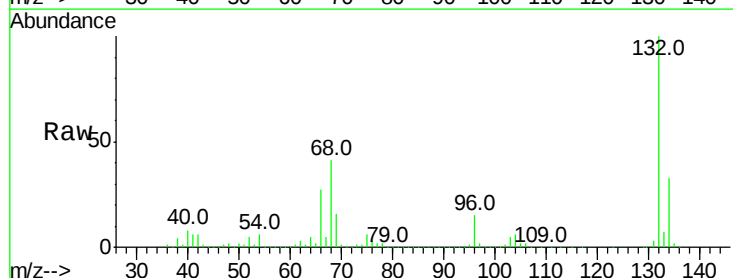
Tgt Ion: 77 Resp: 23253

Ion Ratio Lower Upper

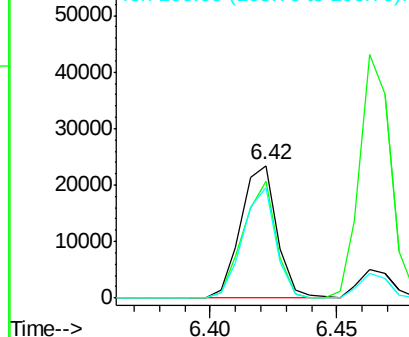
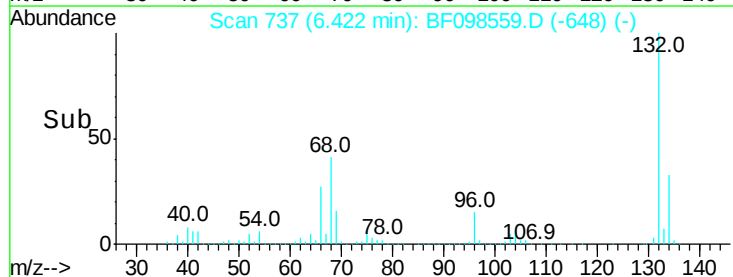
77 100

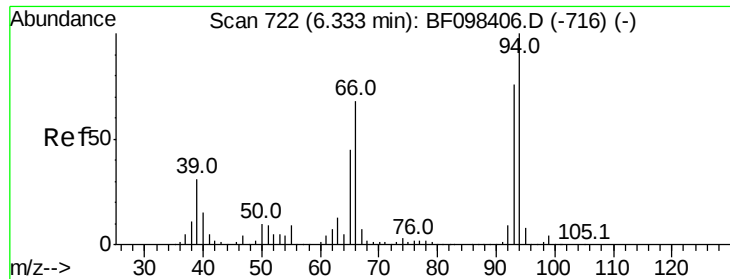
105 88.9 83.8 123.8

106 83.5 79.1 119.1



Abundance Ion 77.00 (76.70 to 77.70): BF0  
Ion 105.00 (104.70 to 105.70): BF0  
Ion 106.00 (105.70 to 106.70): BF0





#10

Phenol

Concen: 2.738 ng

RT: 6.32 min Scan# 719

Delta R.T. 0.00 min

Lab File: BF098559.D

Acq: 15 Sep 2017 10:27

Instrument :

BNA\_F

ClientSampleId :

G-9-1

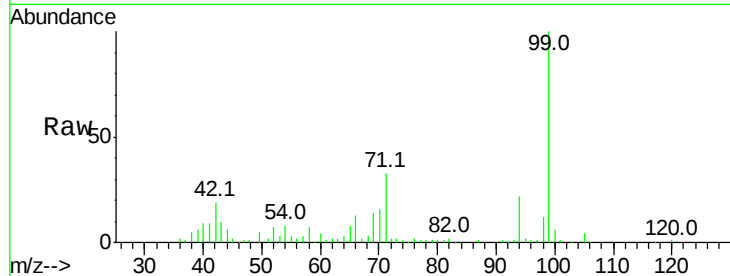
Tot Ion: 94 Resp: 36924

Ion Ratio Lower Upper

94 100

65 35.5 9.9 49.9

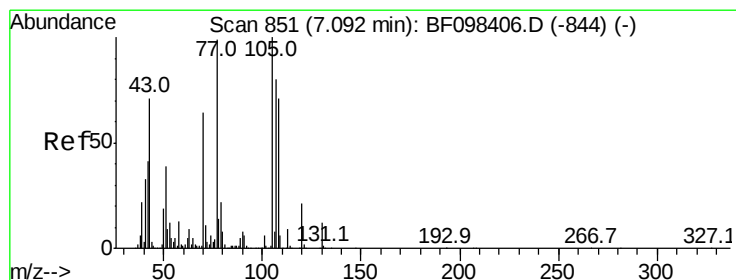
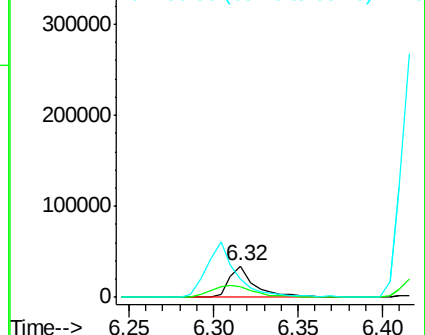
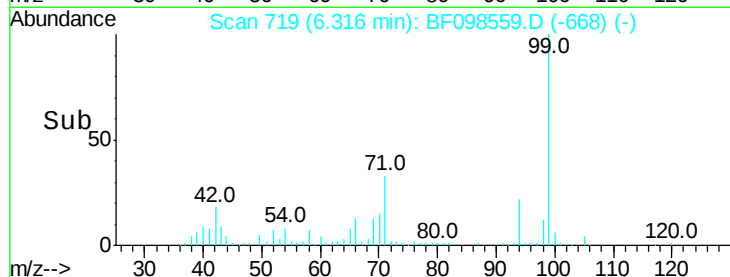
66 59.0 23.1 63.1



Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0



#19

n-Nitroso-di-n-propylamine

Concen: 13.926 ng

RT: 7.22 min Scan# 872

Delta R.T. 0.14 min

Lab File: BF098559.D

Acq: 15 Sep 2017 10:27

Tgt Ion: 70 Resp: 101707

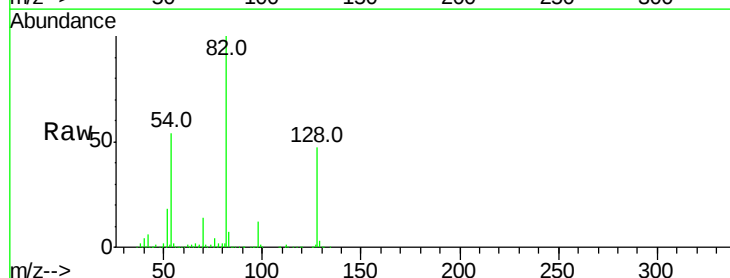
Ion Ratio Lower Upper

70 100

42 46.5 47.2 70.8#

101 0.0 7.2 10.8#

130 2.4 15.9 23.9#

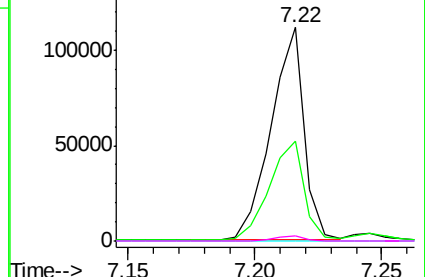
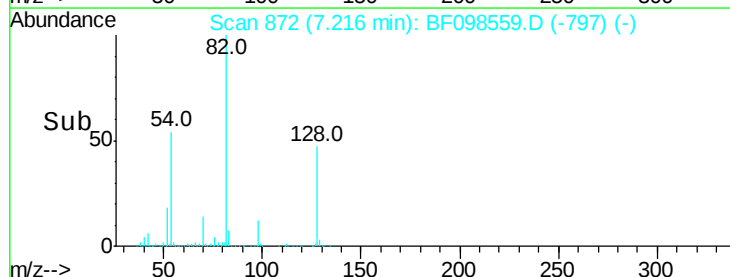


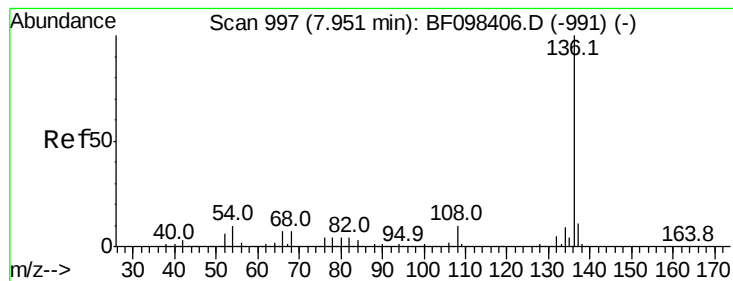
Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.93 min Scan# 993

Delta R.T. -0.01 min

Lab File: BF098559.D

Acq: 15 Sep 2017 10:27

Instrument :

BNA\_F

ClientSampleId :

G-9-1

Tot Ion:136 Resp: 552840

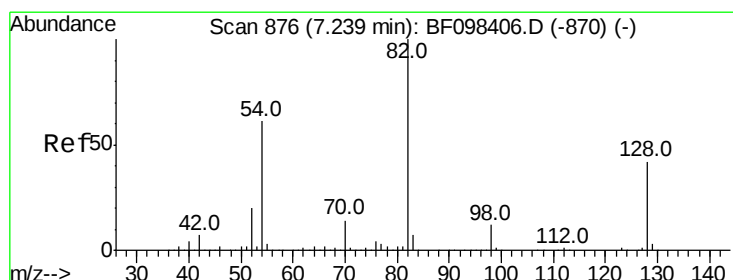
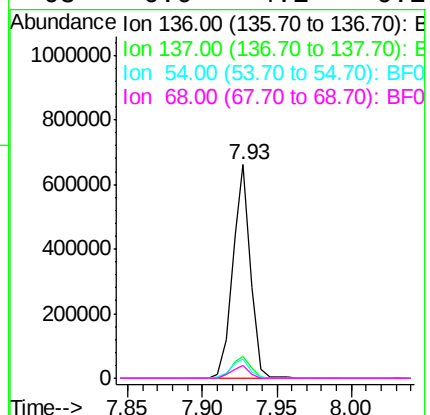
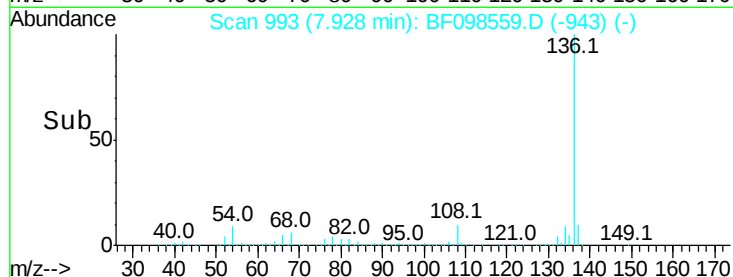
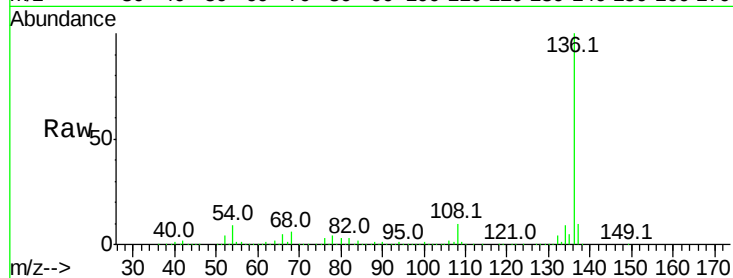
Ion Ratio Lower Upper

136 100

137 10.5 8.5 12.7

54 8.9 4.9 7.3#

68 6.0 4.1 6.1



#23

Nitrobenzene-d5

Concen: 76.731 ng

RT: 7.22 min Scan# 872

Delta R.T. -0.01 min

Lab File: BF098559.D

Acq: 15 Sep 2017 10:27

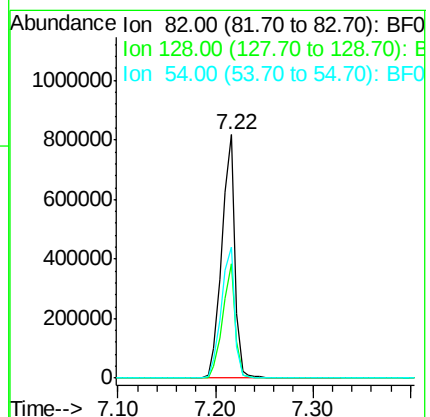
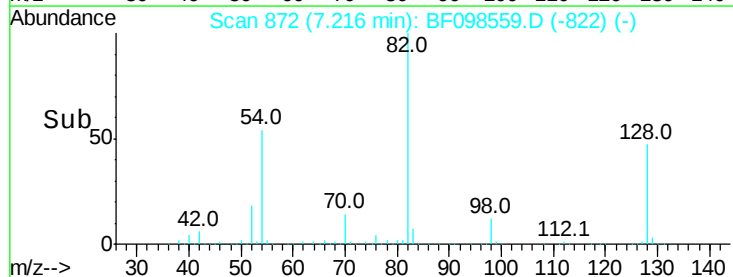
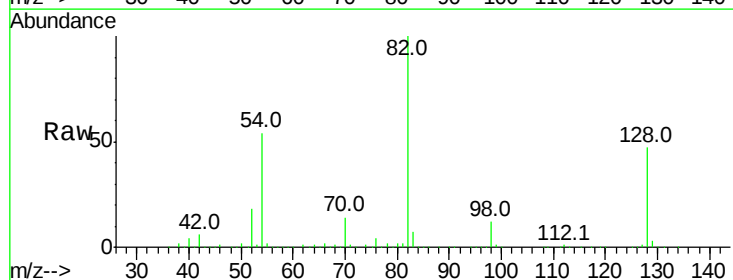
Tgt Ion: 82 Resp: 760906

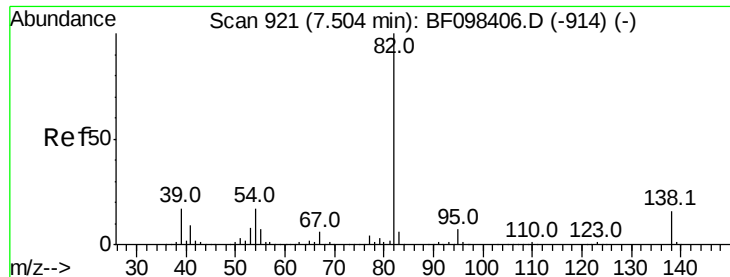
Ion Ratio Lower Upper

82 100

128 46.7 34.0 51.0

54 53.6 42.2 63.2





#25

Isophorone

Concen: 37.853 ng

RT: 7.22 min Scan# 872

Delta R.T. -0.26 min

Lab File: BF098559.D

Acq: 15 Sep 2017 10:27

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ClientSampleId :

G-9-1

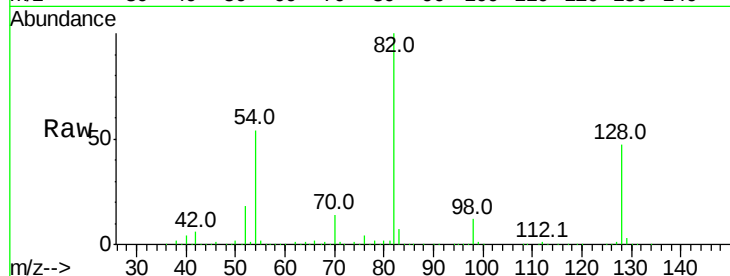
Tot Ion: 82 Resp: 759459

Ion Ratio Lower Upper

82 100

95 0.1 5.3 7.9#

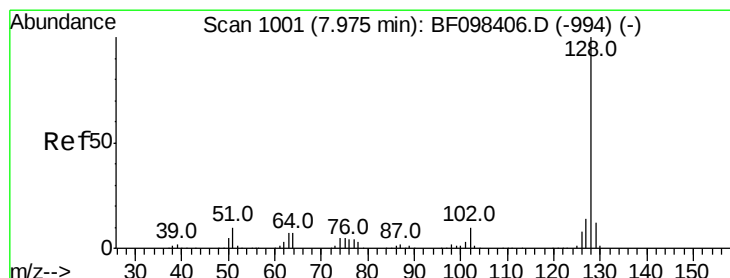
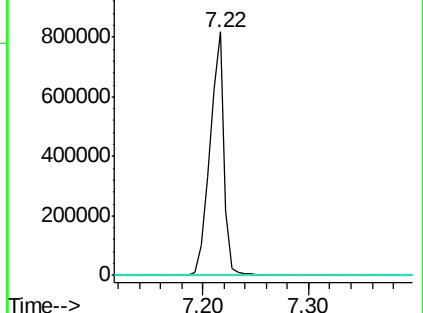
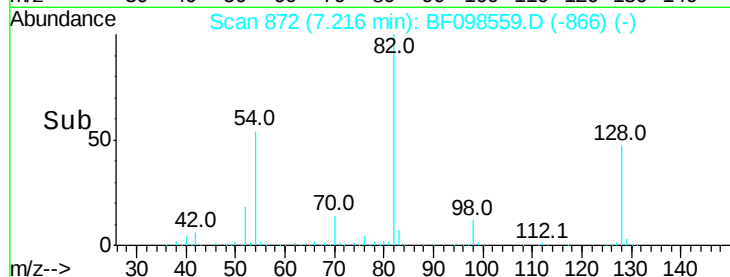
138 0.0 13.1 19.7#



Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 95.00 (94.70 to 95.70): BF0

Ion 138.00 (137.70 to 138.70): BF0



#31

Naphthalene

Concen: 13.907 ng

RT: 7.95 min Scan# 996

Delta R.T. -0.01 min

Lab File: BF098559.D

Acq: 15 Sep 2017 10:27

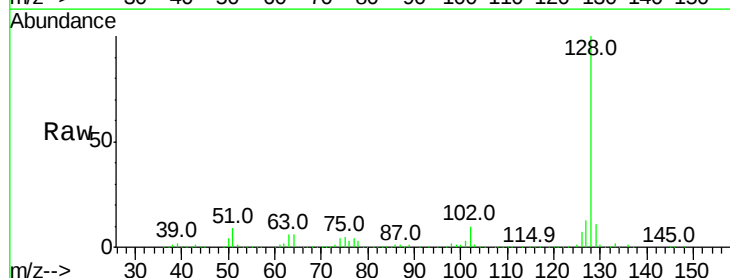
Tgt Ion:128 Resp: 380088

Ion Ratio Lower Upper

128 100

129 11.0 9.0 13.6

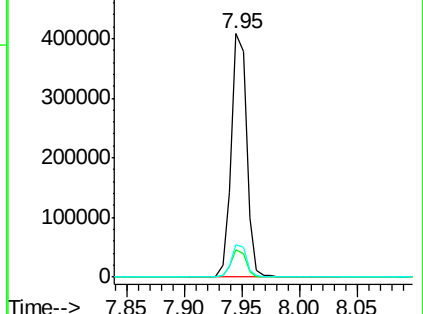
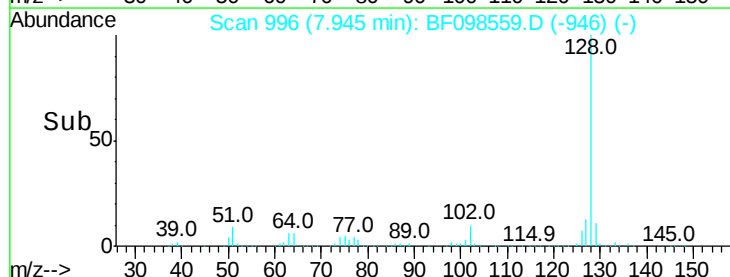
127 13.4 10.8 16.2

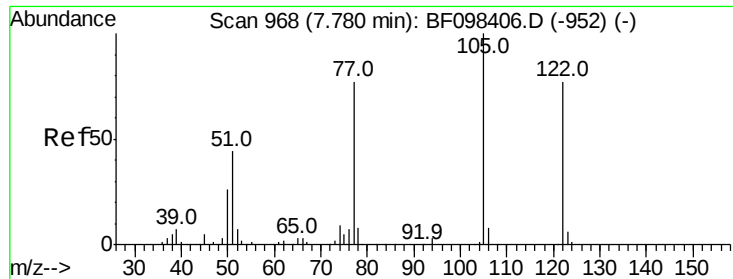


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

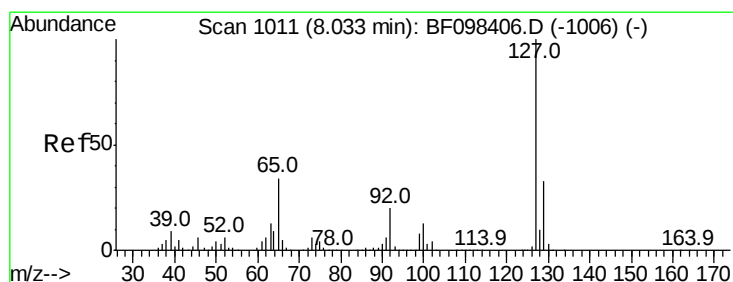
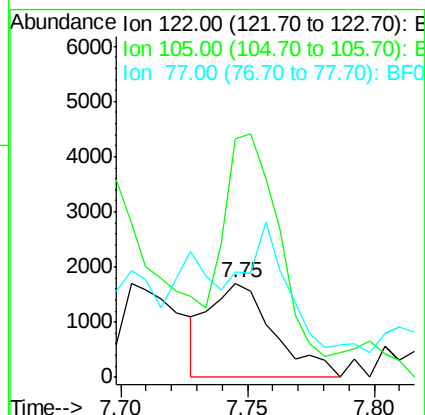
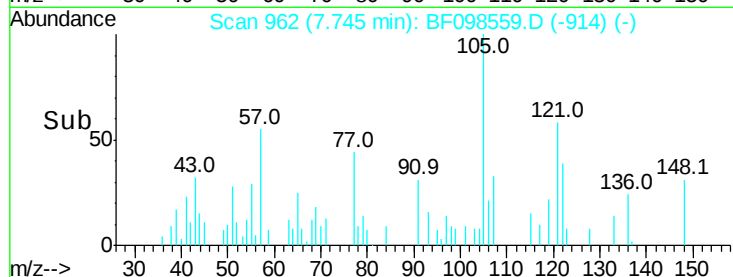
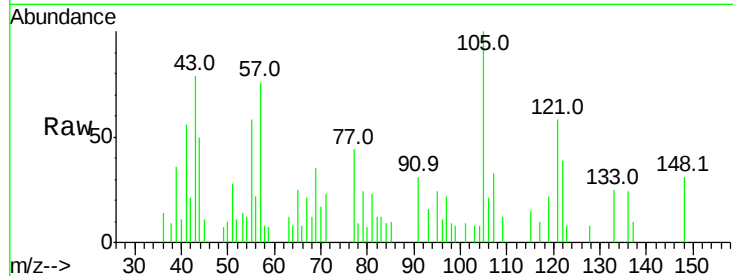




#32  
Benzoic acid  
Concen: 8.404 ng  
RT: 7.75 min Scan# 962  
Delta R.T. -0.02 min  
Lab File: BF098559.D  
Acq: 15 Sep 2017 10:27

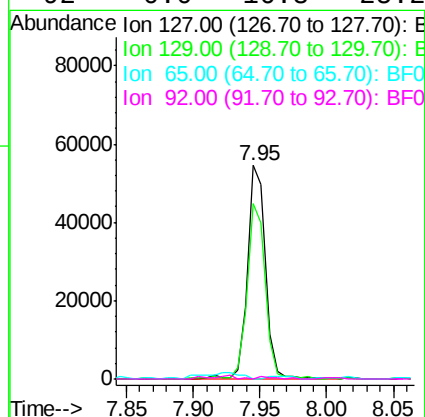
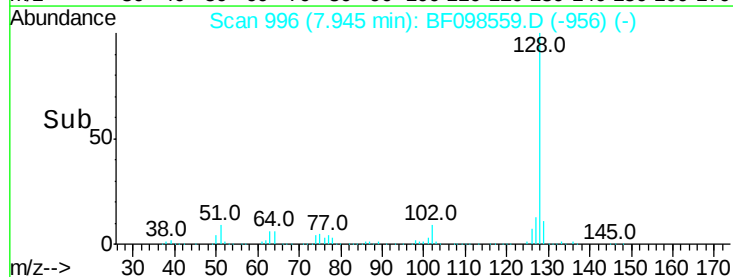
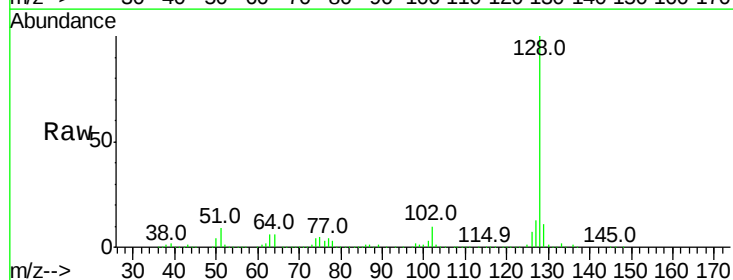
Instrument :  
BNA\_F  
ClientSampled :  
G-9-1

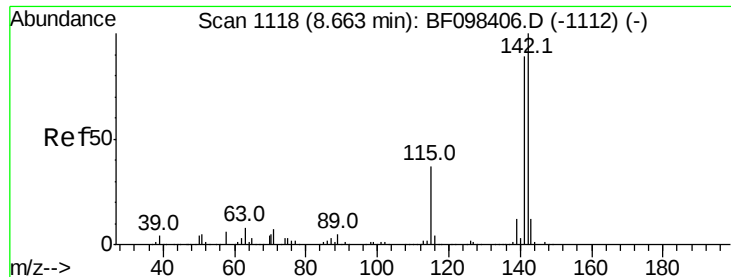
Tot Ion:122 Resp: 3042  
Ion Ratio Lower Upper  
122 100  
105 254.0 103.3 143.3#  
77 112.6 73.7 113.7



#33  
4-Chloroaniline  
Concen: 4.572 ng  
RT: 7.95 min Scan# 996  
Delta R.T. -0.06 min  
Lab File: BF098559.D  
Acq: 15 Sep 2017 10:27

Tgt Ion:127 Resp: 50780  
Ion Ratio Lower Upper  
127 100  
129 82.3 26.2 39.2#  
65 0.0 27.8 41.8#  
92 0.0 16.8 25.2#

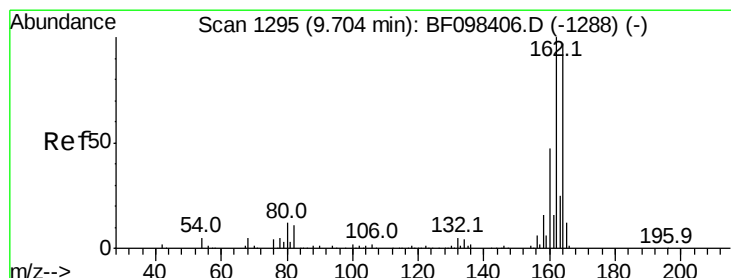
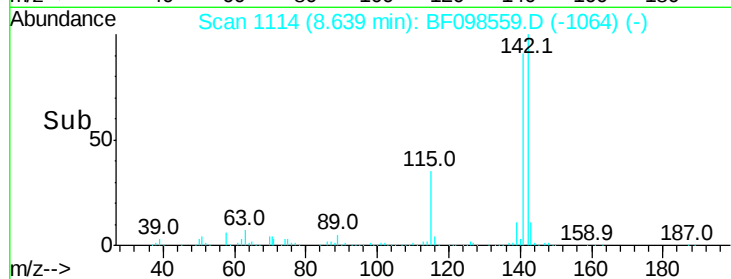
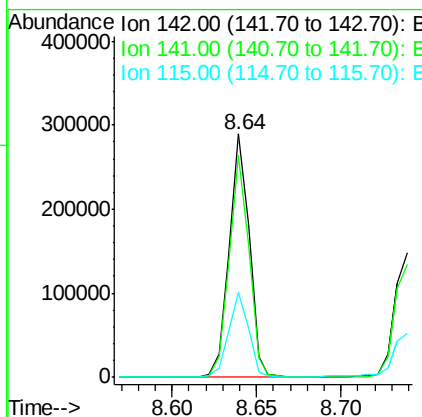
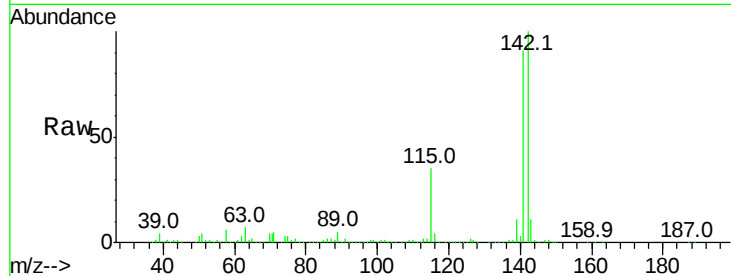




#37  
 2-Methylnaphthalene  
 Concen: 14.357 ng  
 RT: 8.64 min Scan# 1114  
 Delta R.T. -0.01 min  
 Lab File: BF098559.D  
 Acq: 15 Sep 2017 10:27

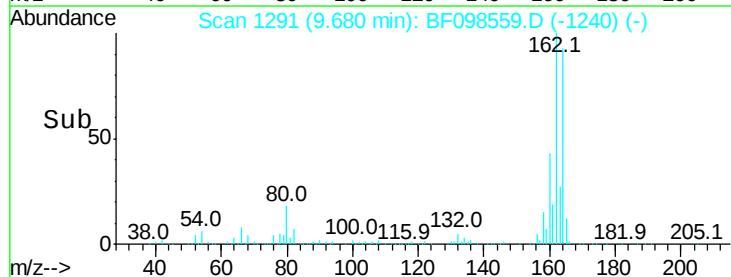
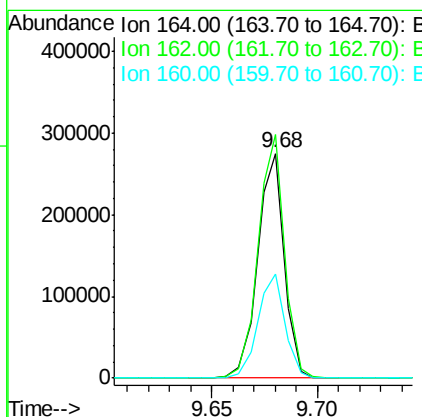
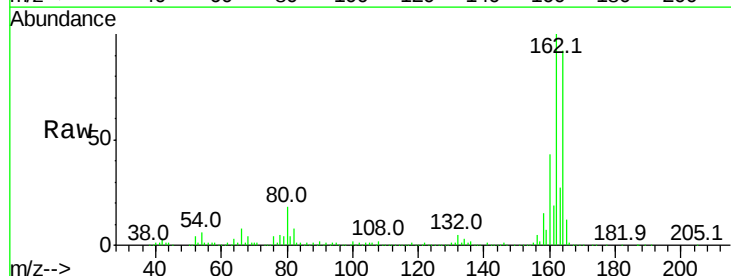
Instrument :  
 BNA\_F  
 ClientSampleId :  
 G-9-1

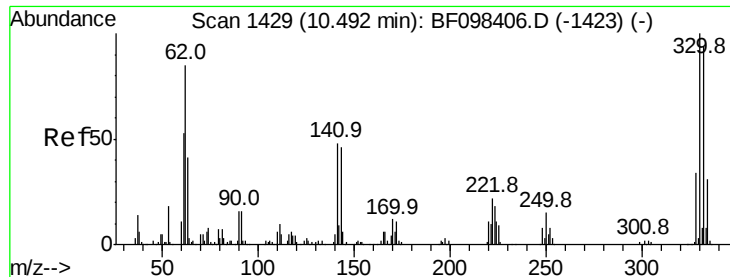
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 91.0  | 71.3  | 106.9 |
| 115     | 35.1  | 27.1  | 40.7  |



#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.68 min Scan# 1291  
 Delta R.T. 0.00 min  
 Lab File: BF098559.D  
 Acq: 15 Sep 2017 10:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 108.4 | 82.6  | 123.8 |
| 160     | 46.5  | 36.2  | 54.2  |

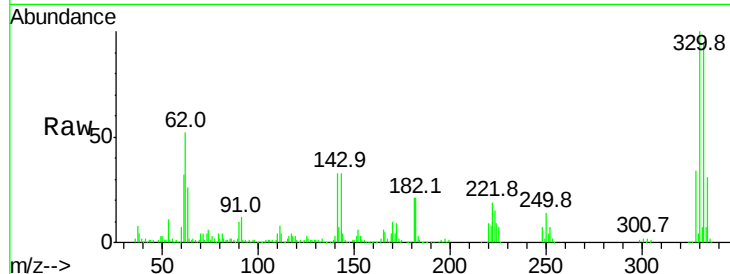




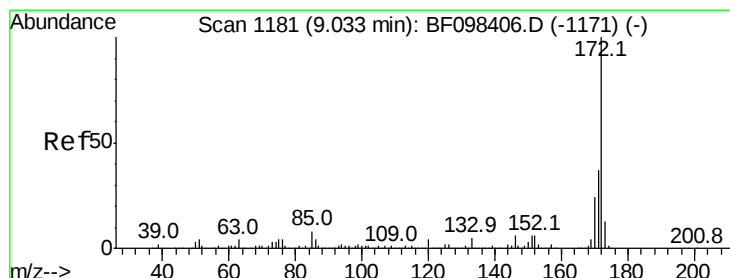
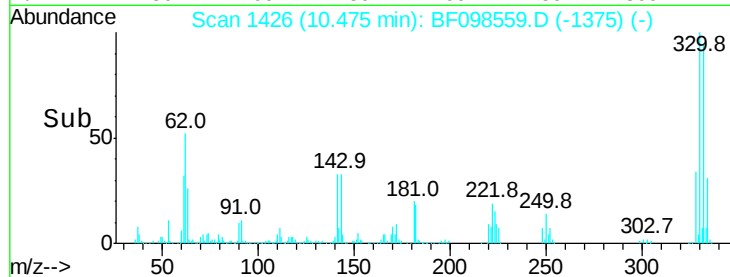
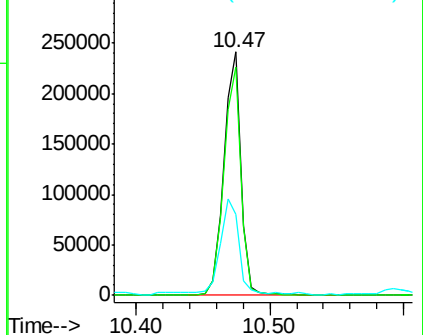
#41  
 2,4,6-Tribromophenol  
 Concen: 136.465 ng  
 RT: 10.47 min Scan# 1426  
 Delta R.T. 0.00 min  
 Lab File: BF098559.D  
 Acq: 15 Sep 2017 10:27

Instrument :  
 BNA\_F  
 ClientSampleId :  
 G-9-1

Tot Ion:330 Resp: 219445  
 Ion Ratio Lower Upper  
 330 100  
 332 94.6 76.6 115.0  
 141 43.7 31.4 47.2

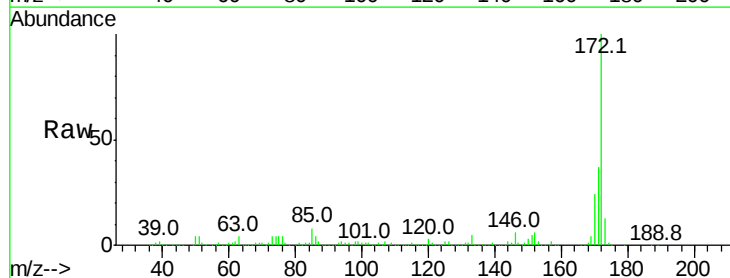


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

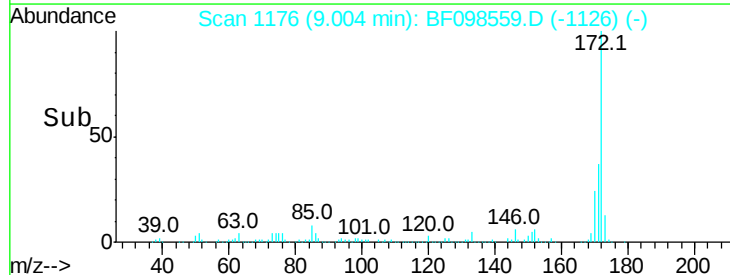
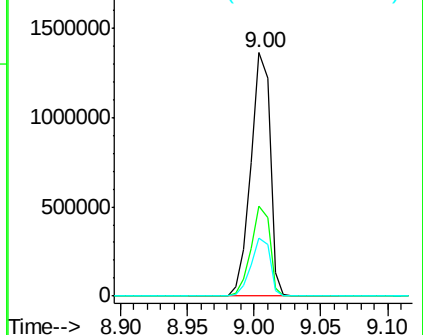


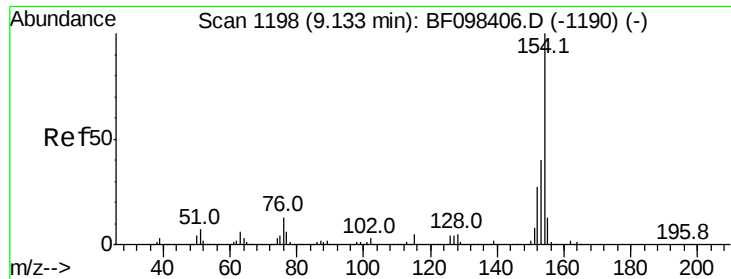
#44  
 2-Fluorobiphenyl  
 Concen: 94.344 ng  
 RT: 9.00 min Scan# 1176  
 Delta R.T. -0.01 min  
 Lab File: BF098559.D  
 Acq: 15 Sep 2017 10:27

Tgt Ion:172 Resp: 1341133  
 Ion Ratio Lower Upper  
 172 100  
 171 36.9 29.6 44.4  
 170 23.7 19.8 29.8



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





#45

1,1'-Biphenyl

Concen: 4.491 ng

RT: 9.10 min Scan# 1193

Delta R.T. -0.01 min

Lab File: BF098559.D

Acq: 15 Sep 2017 10:27

Instrument :

BNA\_F

ClientSampleId :

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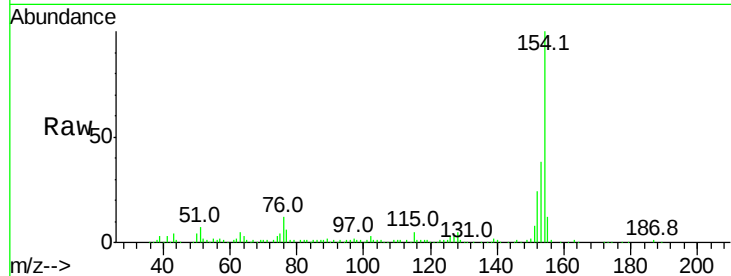
Tot Ion:154 Resp: 96842

Ion Ratio Lower Upper

154 100

153 38.2 21.2 61.2

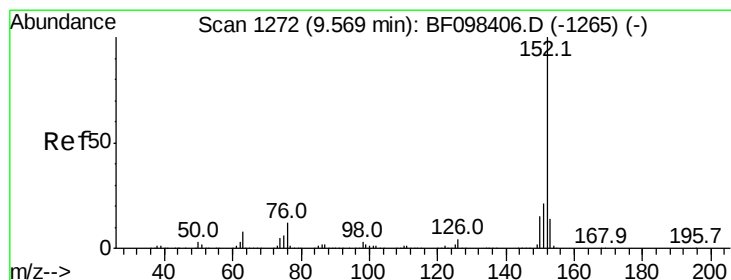
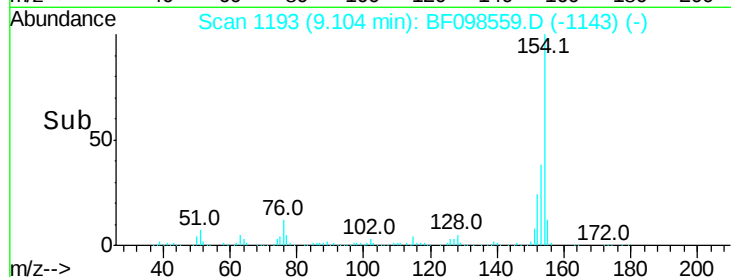
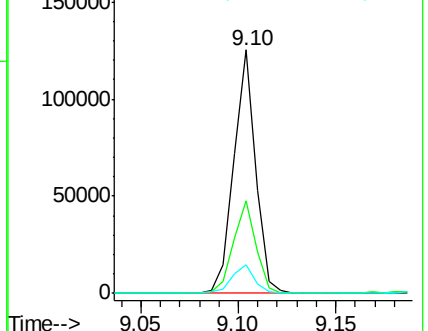
76 11.6 0.0 29.9



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BF0



#48

Acenaphthylene

Concen: 7.232 ng

RT: 9.54 min Scan# 1267

Delta R.T. -0.01 min

Lab File: BF098559.D

Acq: 15 Sep 2017 10:27

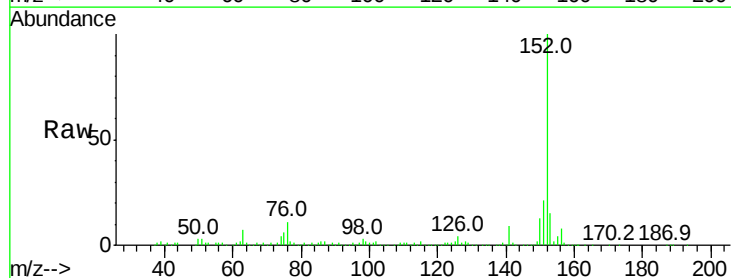
Tgt Ion:152 Resp: 165609

Ion Ratio Lower Upper

152 100

151 21.0 16.8 25.2

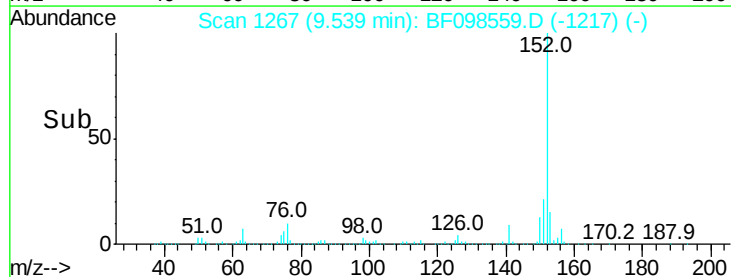
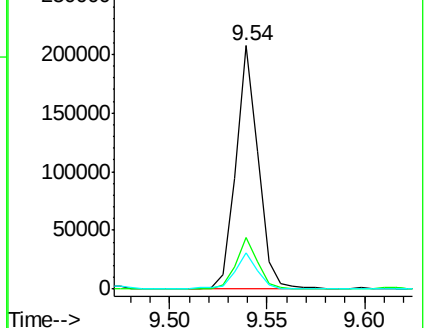
153 14.9 10.8 16.2

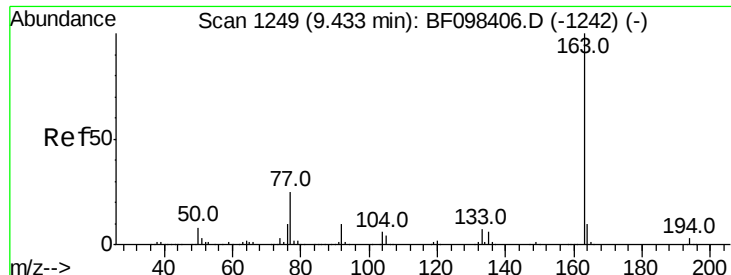


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#49

Dimethylphthalate

Concen: 9.788 ng

RT: 9.40 min Scan# 1244

Delta R.T. -0.01 min

Lab File: BF098559.D

Acq: 15 Sep 2017 10:27

Instrument :

BNA\_F

ClientSampleId :

G-9-1

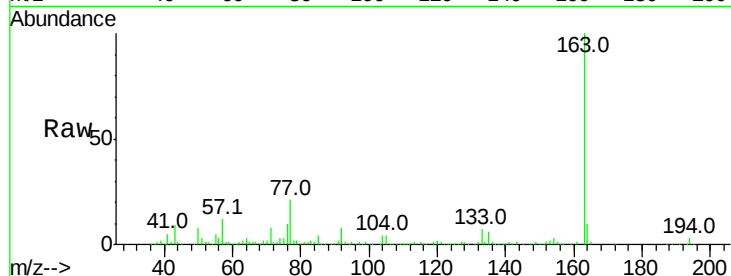
Tot Ion:163 Resp: 182545

Ion Ratio Lower Upper

163 100

194 3.4 2.6 4.0

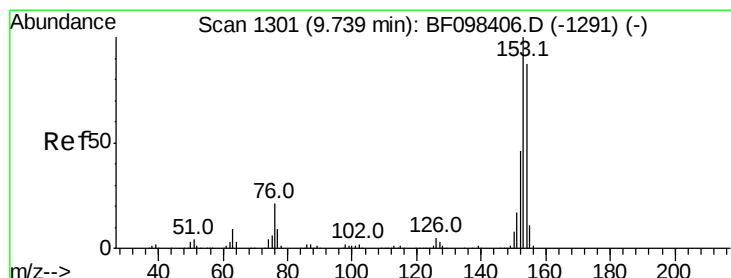
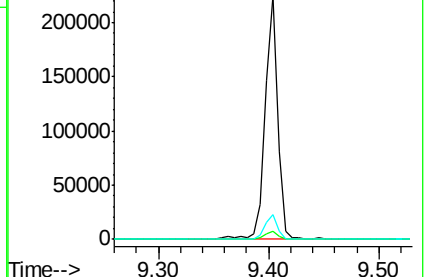
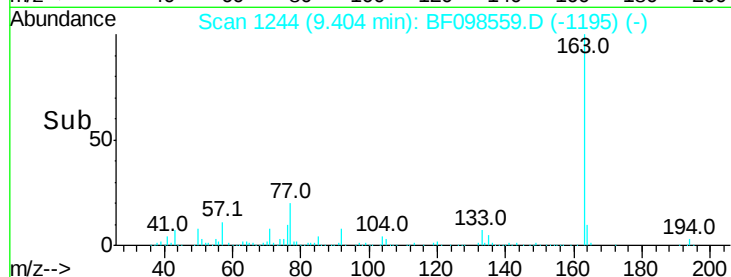
164 10.2 8.4 12.6



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#51

Acenaphthene

Concen: 5.223 ng

RT: 9.71 min Scan# 1296

Delta R.T. -0.01 min

Lab File: BF098559.D

Acq: 15 Sep 2017 10:27

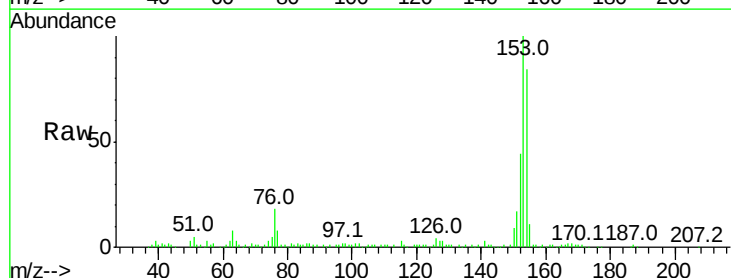
Tgt Ion:154 Resp: 76026

Ion Ratio Lower Upper

154 100

153 119.7 90.5 135.7

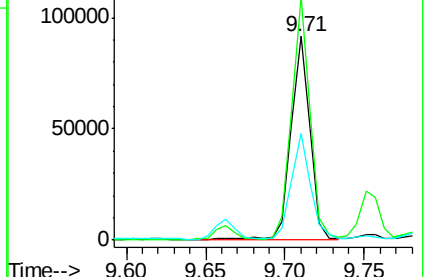
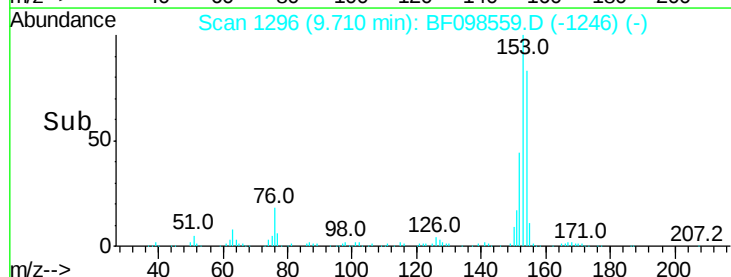
152 52.7 43.6 65.4

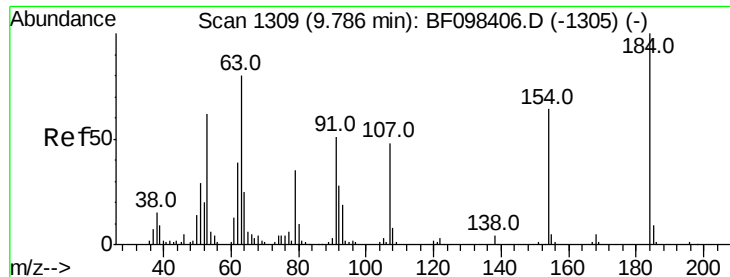


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

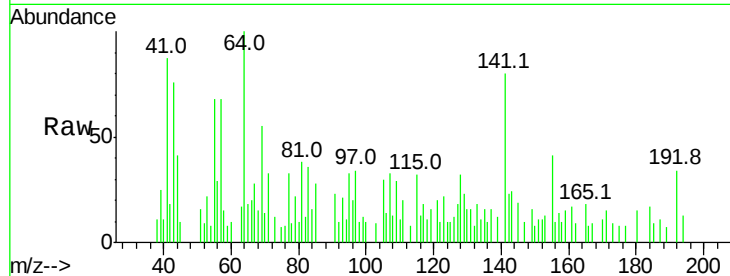




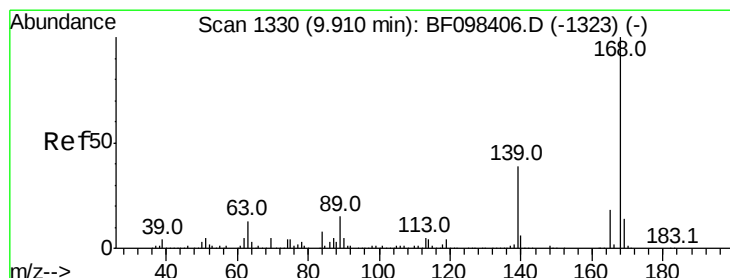
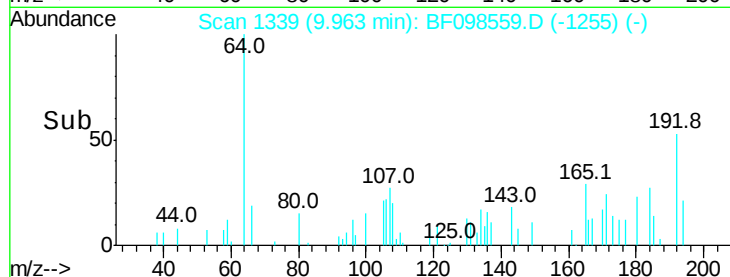
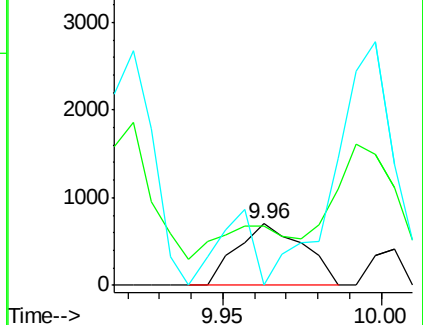
#53  
2,4-Dinitrophenol  
Concen: 9.031 ng  
RT: 9.96 min Scan# 1339  
Delta R.T. 0.19 min  
Lab File: BF098559.D  
Acq: 15 Sep 2017 10:27

Instrument :  
BNA\_F  
ClientSampleId :  
G-9-1

Tot Ion:184 Resp: 1025  
Ion Ratio Lower Upper  
184 100  
63 97.0 62.7 94.1#  
154 0.0 81.1 121.7#

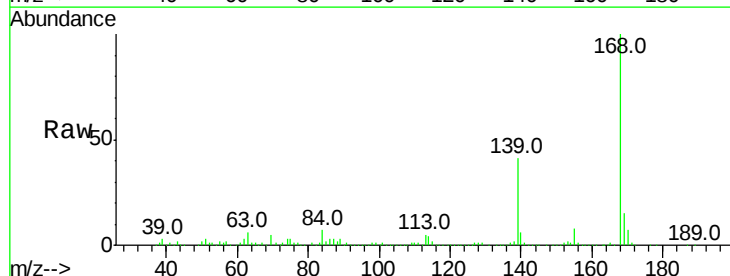


Abundance Ion 184.00 (183.70 to 184.70): E  
Ion 63.00 (62.70 to 63.70): BF0  
Ion 154.00 (153.70 to 154.70): E

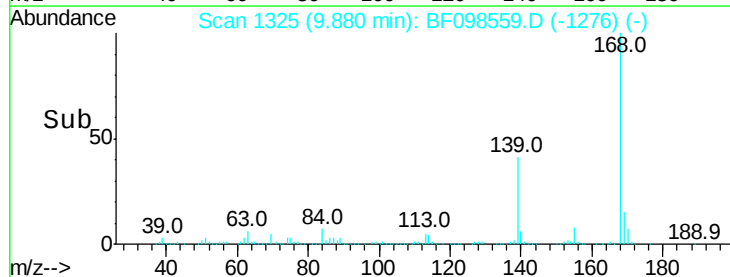
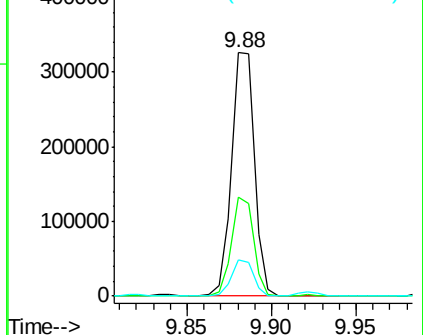


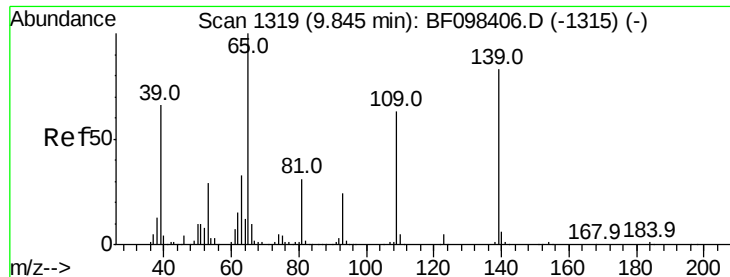
#54  
Dibenzofuran  
Concen: 15.986 ng  
RT: 9.88 min Scan# 1325  
Delta R.T. -0.01 min  
Lab File: BF098559.D  
Acq: 15 Sep 2017 10:27

Tgt Ion:168 Resp: 306554  
Ion Ratio Lower Upper  
168 100  
139 40.7 30.6 45.8  
169 15.1 10.8 16.2



Abundance Ion 168.00 (167.70 to 168.70): E  
Ion 139.00 (138.70 to 139.70): E  
Ion 169.00 (168.70 to 169.70): E





#55

4-Nitrophenol

Concen: 45.523 ng

RT: 9.88 min Scan# 1325

Delta R.T. 0.05 min

Lab File: BF098559.D

Acq: 15 Sep 2017 10:27

Instrument :

BNA\_F

ClientSampleId :

G-9-1

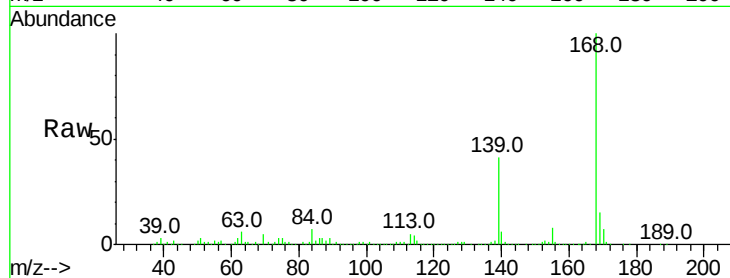
Tot Ion:139 Resp: 120952

Ion Ratio Lower Upper

139 100

109 1.8 34.1 74.1#

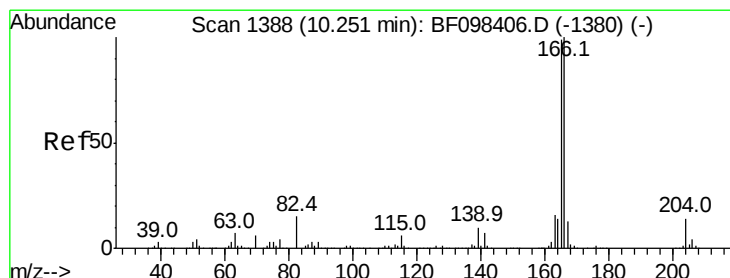
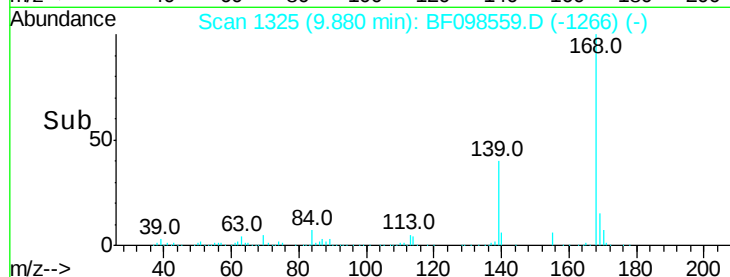
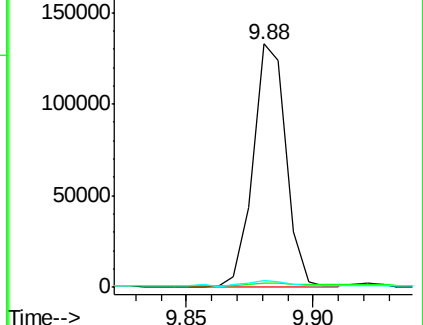
65 2.7 31.4 71.4#



Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF0



#57

Fluorene

Concen: 5.163 ng

RT: 10.23 min Scan# 1384

Delta R.T. -0.01 min

Lab File: BF098559.D

Acq: 15 Sep 2017 10:27

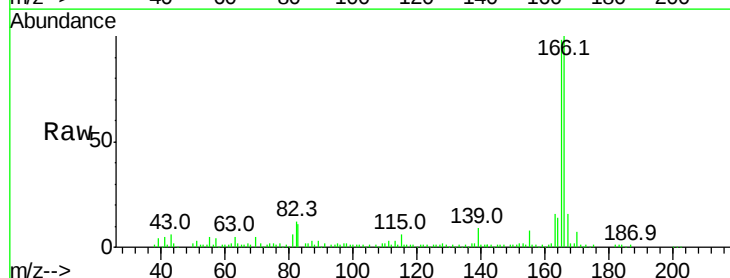
Tgt Ion:166 Resp: 81952

Ion Ratio Lower Upper

166 100

165 98.0 78.8 118.2

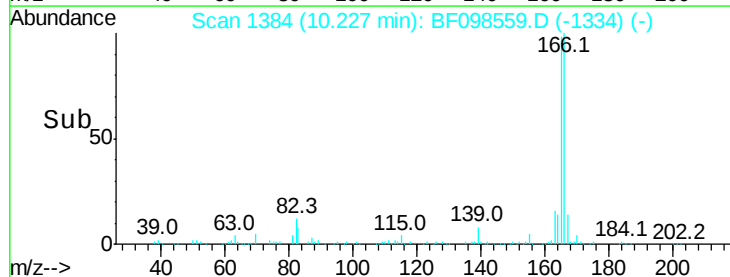
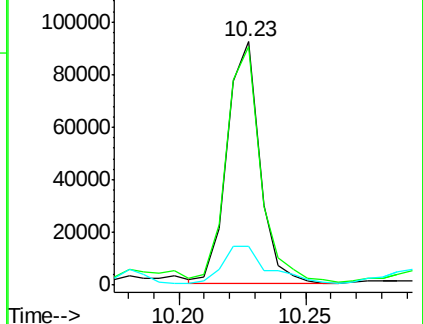
167 15.9 10.6 16.0

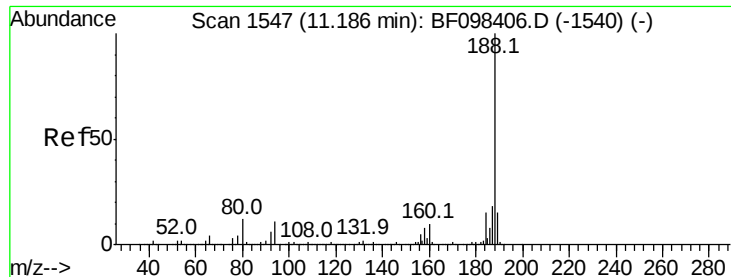


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

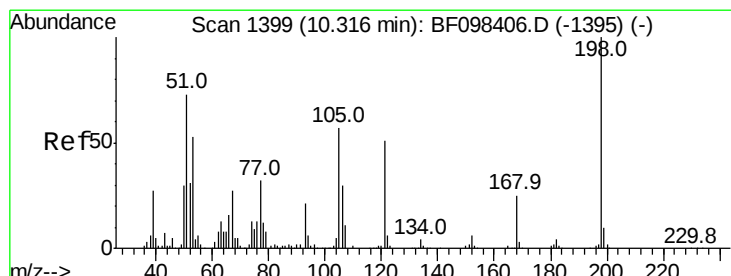
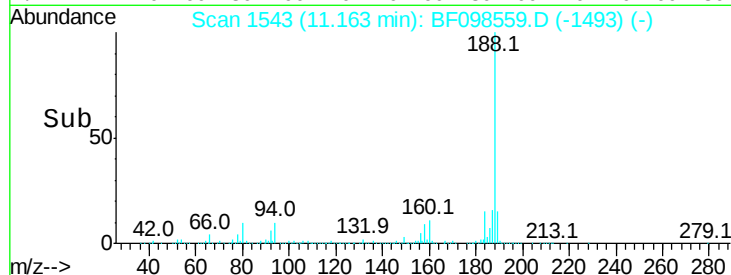
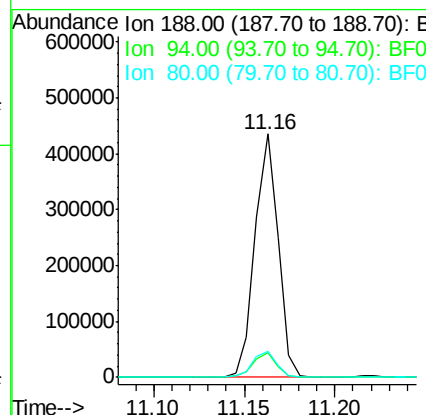
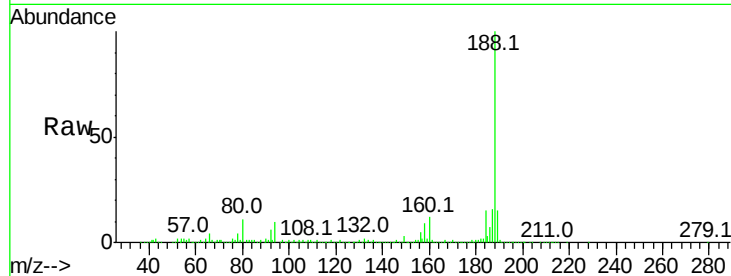




#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.16 min Scan# 1543  
Delta R.T. -0.01 min  
Lab File: BF098559.D  
Acq: 15 Sep 2017 10:27

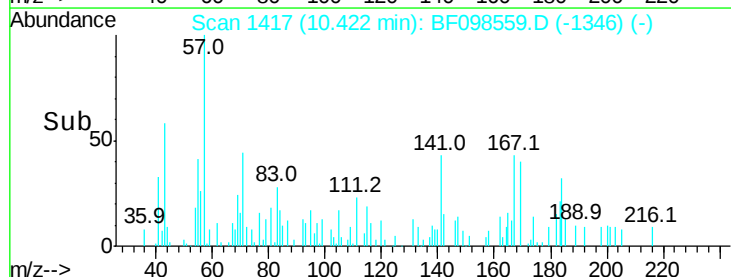
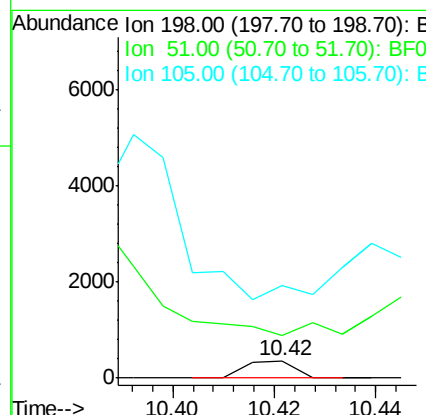
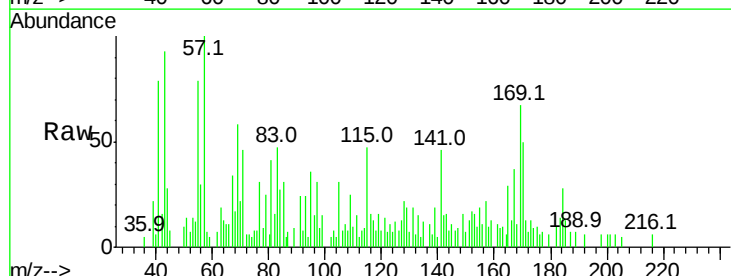
Instrument :  
BNA\_F  
ClientSampleId :  
G-9-1

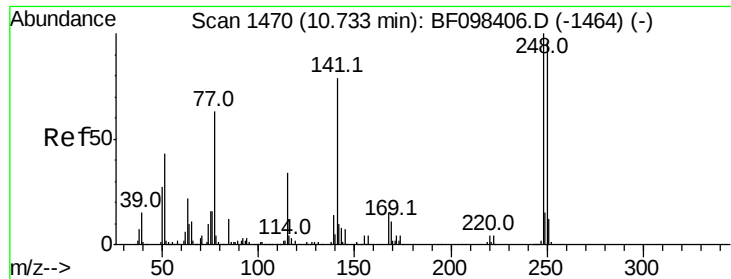
Tot Ion:188 Resp: 388226  
Ion Ratio Lower Upper  
188 100  
94 10.0 9.4 14.2  
80 10.6 10.2 15.2



#64  
4,6-Dinitro-2-methylphenol  
Concen: 5.057 ng  
RT: 10.42 min Scan# 1417  
Delta R.T. 0.12 min  
Lab File: BF098559.D  
Acq: 15 Sep 2017 10:27

Tgt Ion:198 Resp: 247  
Ion Ratio Lower Upper  
198 100  
51 244.3 53.2 93.2#  
105 527.0 45.8 85.8#

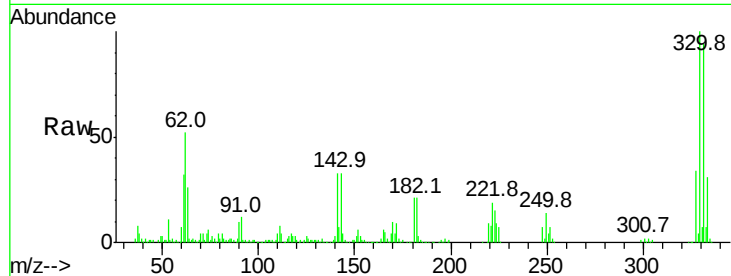




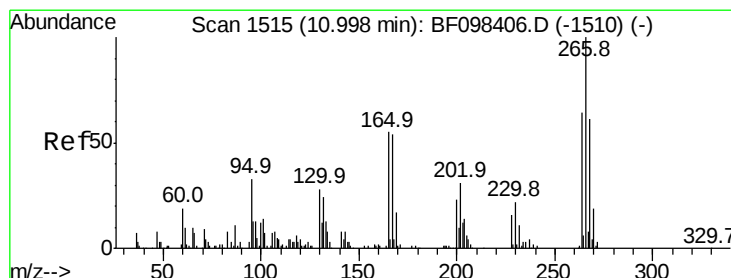
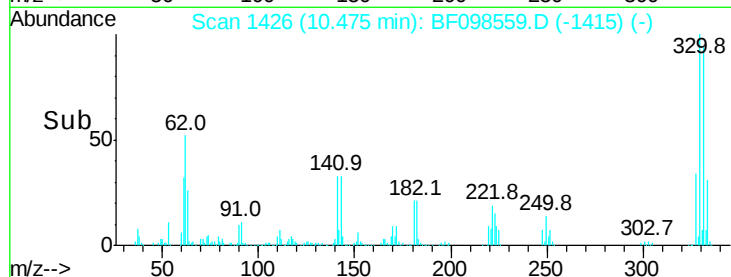
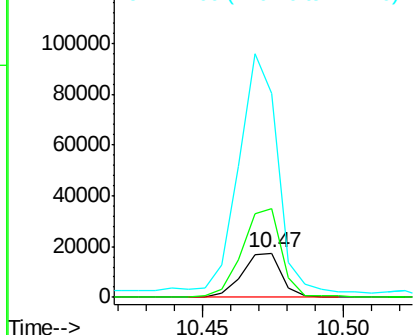
#66  
4-Bromophenyl-phenylether  
Concen: 4.448 ng  
RT: 10.47 min Scan# 1426  
Delta R.T. -0.24 min  
Lab File: BF098559.D  
Acq: 15 Sep 2017 10:27

Instrument :  
BNA\_F  
ClientSampleId :  
G-9-1

Tot Ion:248 Resp: 16389  
Ion Ratio Lower Upper  
248 100  
250 200.8 76.8 115.2#  
141 464.3 68.6 103.0#

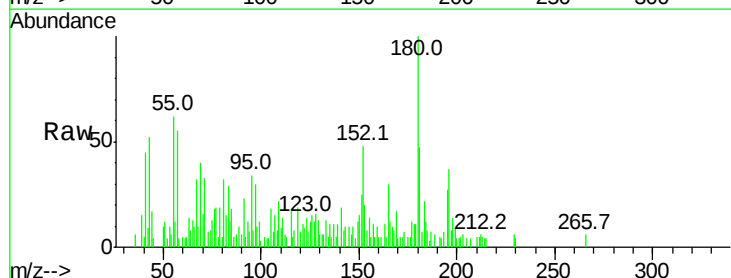


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

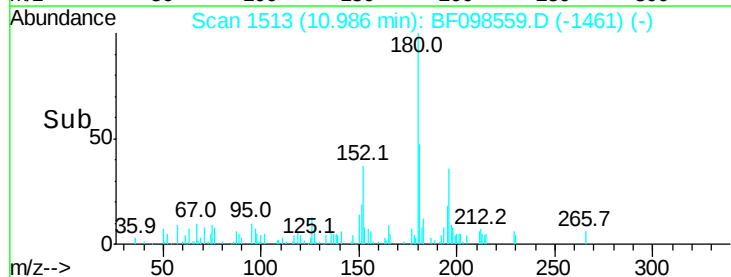
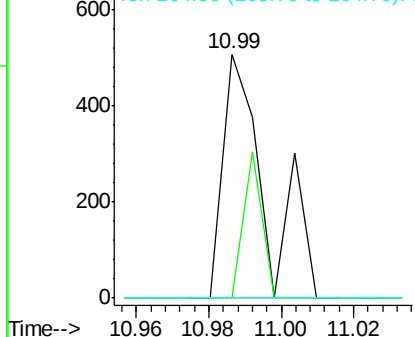


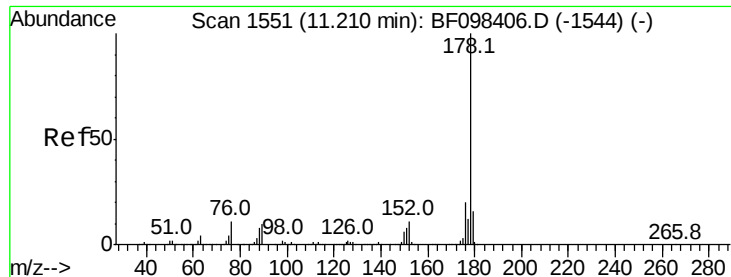
#69  
Pentachlorophenol  
Concen: 7.169 ng  
RT: 10.99 min Scan# 1513  
Delta R.T. 0.01 min  
Lab File: BF098559.D  
Acq: 15 Sep 2017 10:27

Tgt Ion:266 Resp: 418  
Ion Ratio Lower Upper  
266 100  
268 0.0 51.1 76.7#  
264 0.0 51.7 77.5#



Abundance Ion 265.70 (265.40 to 266.40): E  
Ion 268.00 (267.70 to 268.70): E  
Ion 264.00 (263.70 to 264.70): E





#70

Phenanthrene

Concen: 43.722 ng

RT: 11.19 min Scan# 1547

Delta R.T. -0.01 min

Lab File: BF098559.D

Acq: 15 Sep 2017 10:27

Instrument :

BNA\_F

ClientSampled :

G-9-1

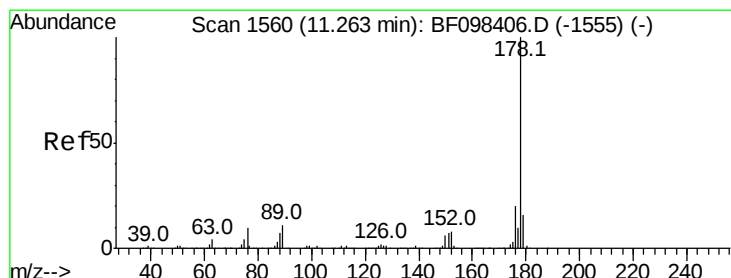
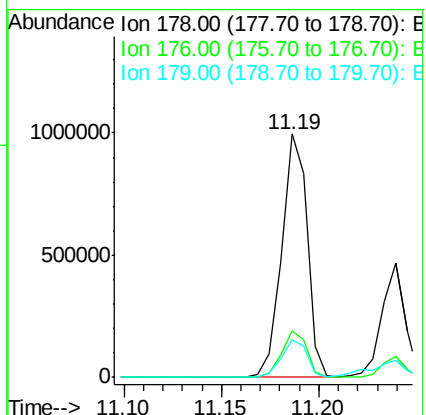
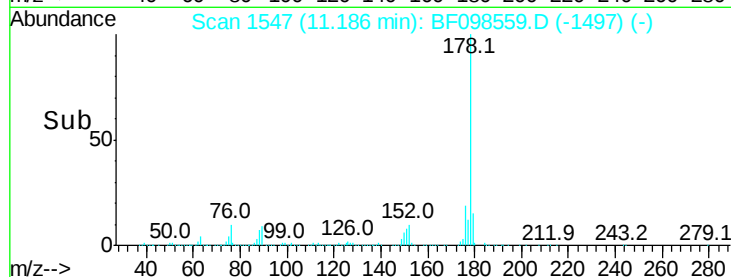
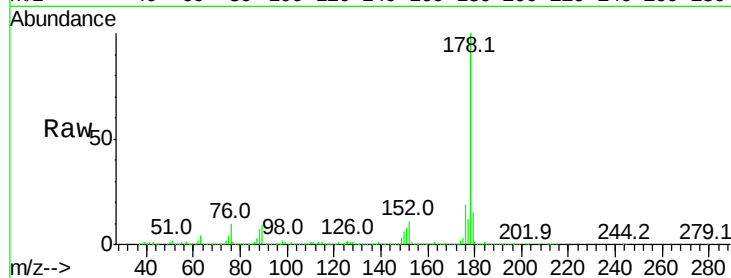
Tot Ion:178 Resp: 899835

Ion Ratio Lower Upper

178 100

176 19.1 16.2 24.4

179 15.4 12.6 19.0



#71

Anthracene

Concen: 18.066 ng

RT: 11.24 min Scan# 1556

Delta R.T. -0.01 min

Lab File: BF098559.D

Acq: 15 Sep 2017 10:27

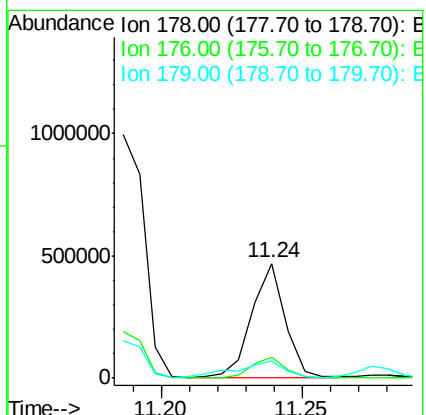
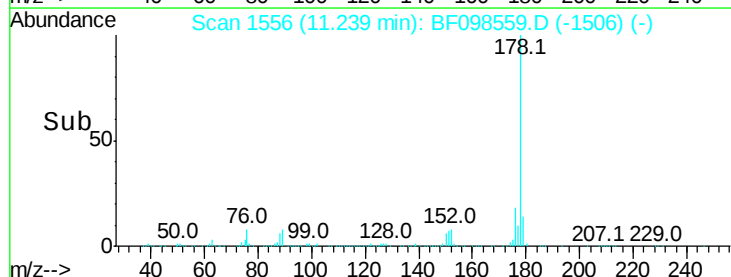
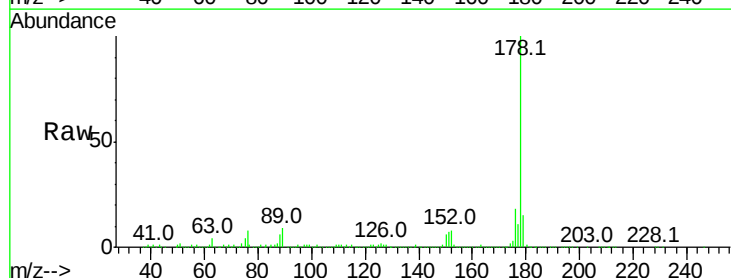
Tgt Ion:178 Resp: 381736

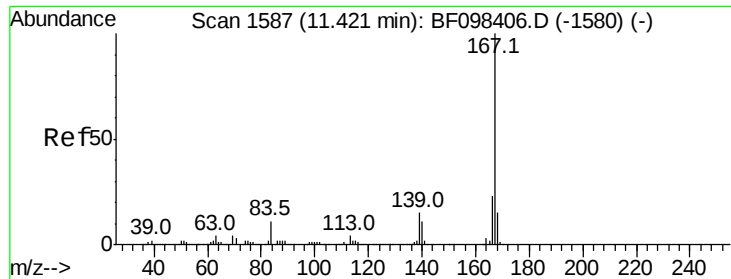
Ion Ratio Lower Upper

178 100

176 18.4 15.8 23.8

179 14.7 12.7 19.1

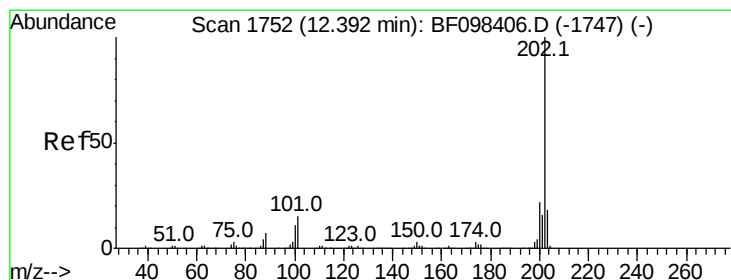
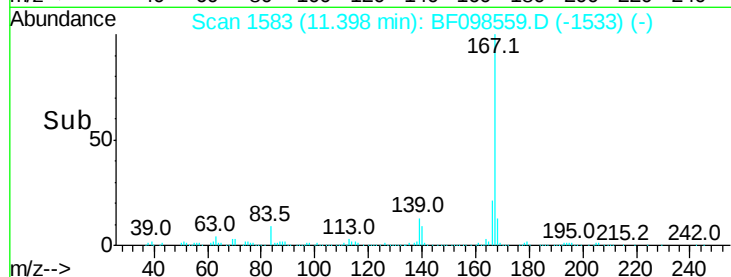
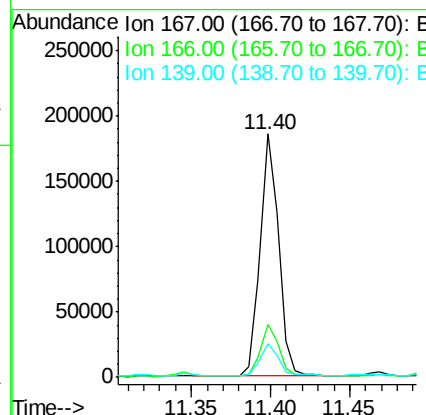
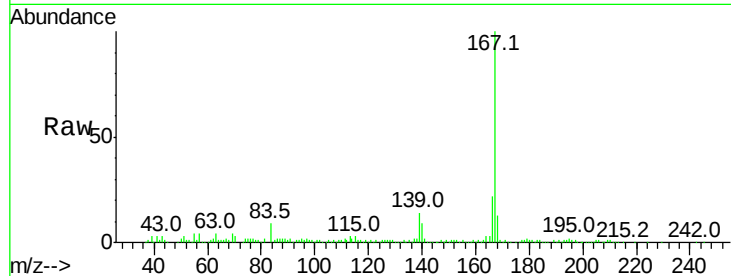




#72  
 Carbazole  
 Concen: 7.693 ng  
 RT: 11.40 min Scan# 1583  
 Delta R.T. -0.01 min  
 Lab File: BF098559.D  
 Acq: 15 Sep 2017 10:27

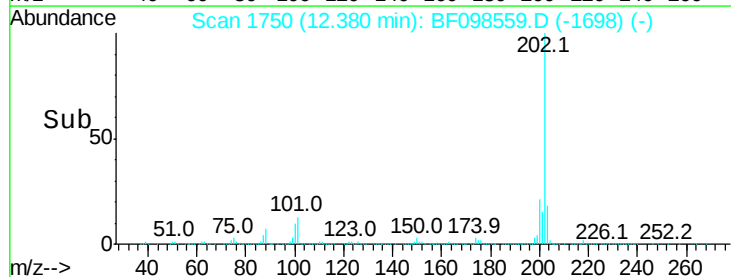
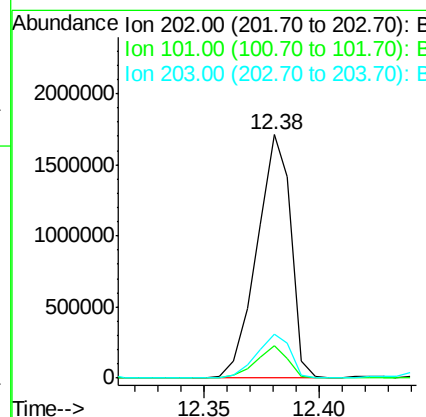
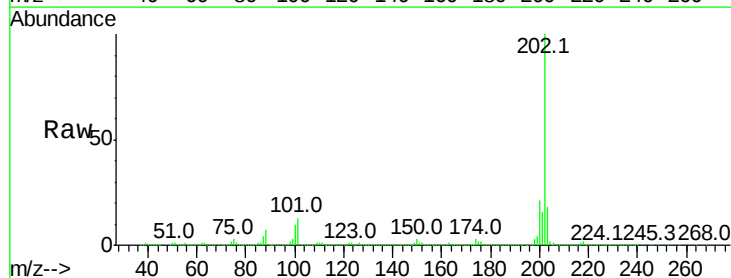
Instrument :  
 BNA\_F  
 ClientSampleId :  
 G-9-1

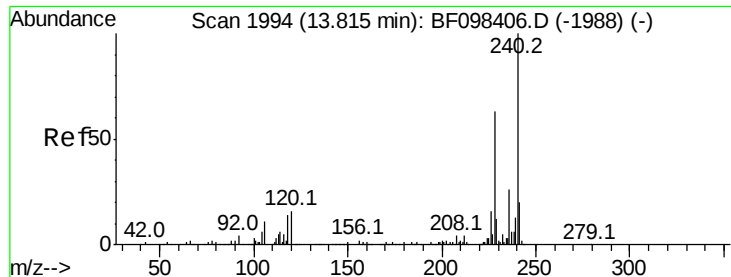
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 167     | 100   |       |       |
| 166     | 21.7  | 18.1  | 27.1  |
| 139     | 14.0  | 11.7  | 17.5  |



#74  
 Fluoranthene  
 Concen: 84.609 ng  
 RT: 12.38 min Scan# 1750  
 Delta R.T. 0.01 min  
 Lab File: BF098559.D  
 Acq: 15 Sep 2017 10:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 13.3  | 0.0   | 33.2  |
| 203     | 18.2  | 0.0   | 38.1  |





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.81 min Scan# 1993

Delta R.T. 0.01 min

Lab File: BF098559.D

Acq: 15 Sep 2017 10:27

Instrument :

BNA\_F

ClientSampleId :

G-9-1

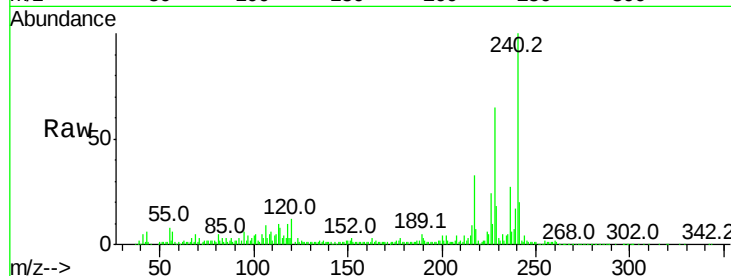
Tot Ion:240 Resp: 258742

Ion Ratio Lower Upper

240 100

120 12.1 5.8 8.8#

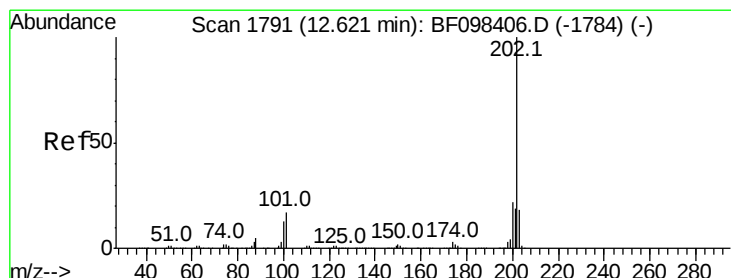
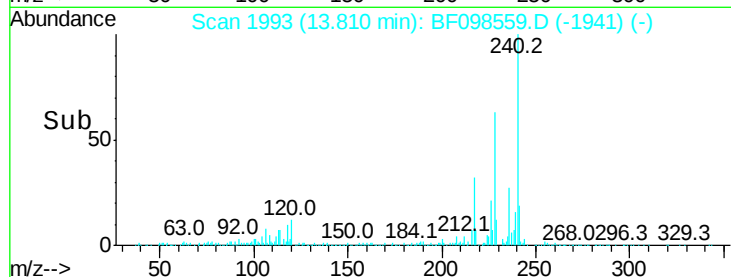
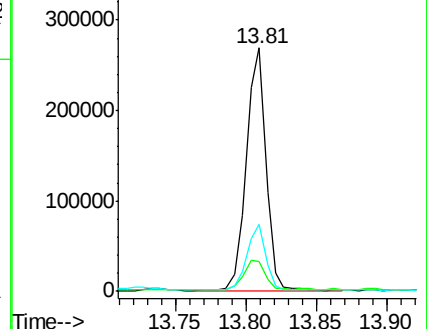
236 27.4 20.5 30.7



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: 78.134 ng

RT: 12.61 min Scan# 1789

Delta R.T. 0.01 min

Lab File: BF098559.D

Acq: 15 Sep 2017 10:27

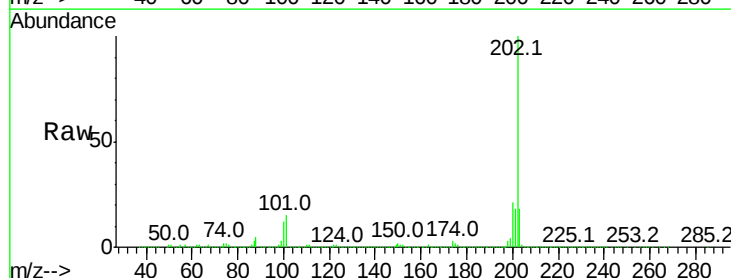
Tgt Ion:202 Resp: 1594815

Ion Ratio Lower Upper

202 100

200 21.3 17.6 26.4

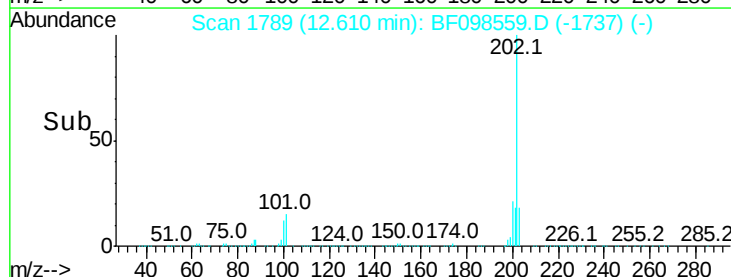
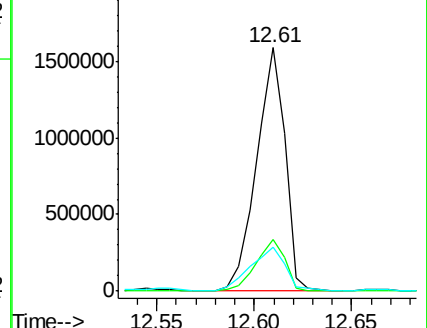
203 18.0 14.4 21.6

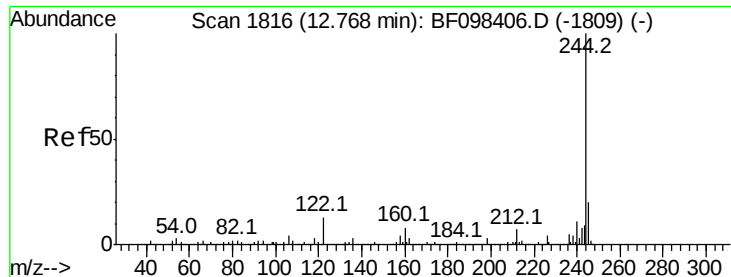


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 75.647 ng

RT: 12.75 min Scan# 1813

Delta R.T. 0.00 min

Lab File: BF098559.D

Acq: 15 Sep 2017 10:27

Instrument :

BNA\_F

ClientSampled :

G-9-1

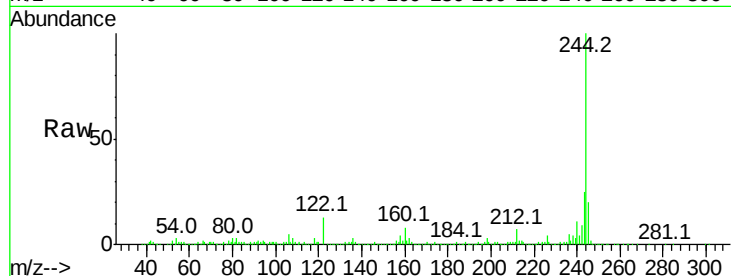
Tot Ion:244 Resp: 906800

Ion Ratio Lower Upper

244 100

212 7.5 6.0 9.0

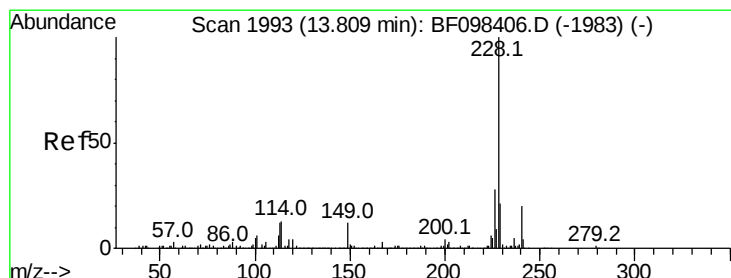
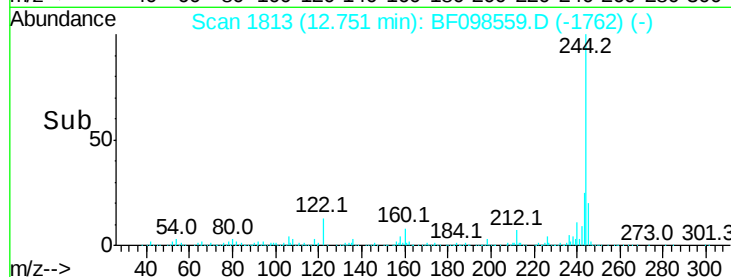
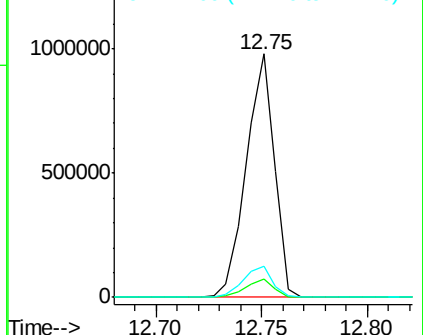
122 12.9 10.3 15.5



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: 52.036 ng

RT: 13.80 min Scan# 1991

Delta R.T. 0.01 min

Lab File: BF098559.D

Acq: 15 Sep 2017 10:27

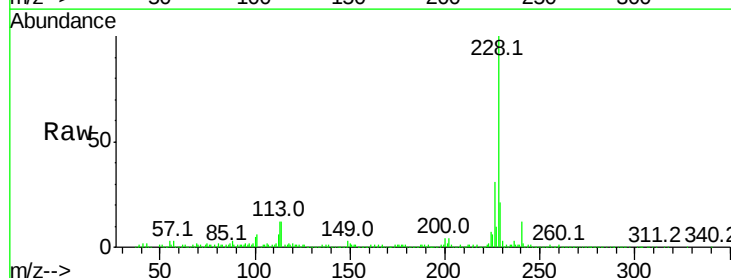
Tgt Ion:228 Resp: 789367

Ion Ratio Lower Upper

228 100

226 30.9 22.6 33.8

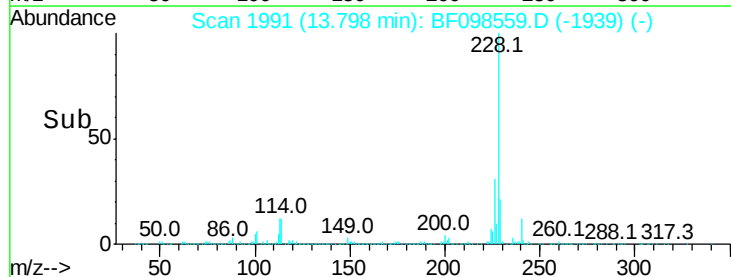
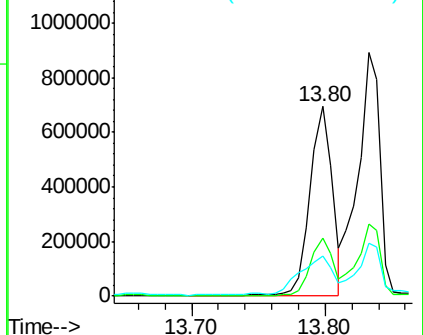
229 21.3 16.3 24.5

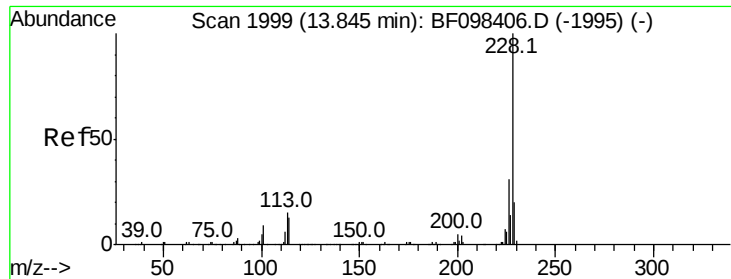


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 60.634 ng

RT: 13.83 min Scan# 1997

Delta R.T. 0.00 min

Lab File: BF098559.D

Acq: 15 Sep 2017 10:27

Instrument :

BNA\_F

ClientSampled :

G-9-1

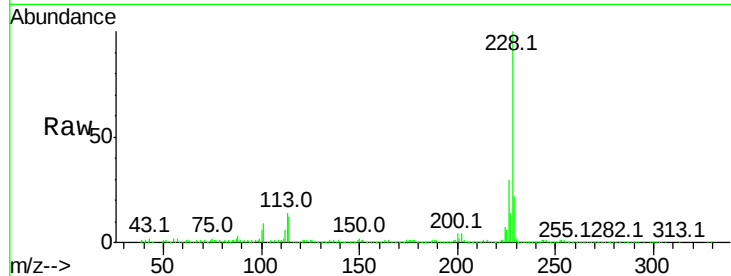
Tot Ion:228 Resp: 929763

Ion Ratio Lower Upper

228 100

226 29.6 24.9 37.3

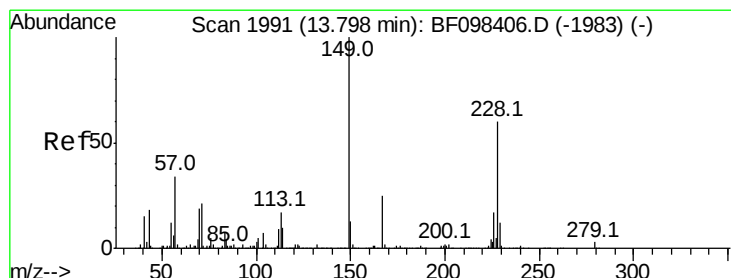
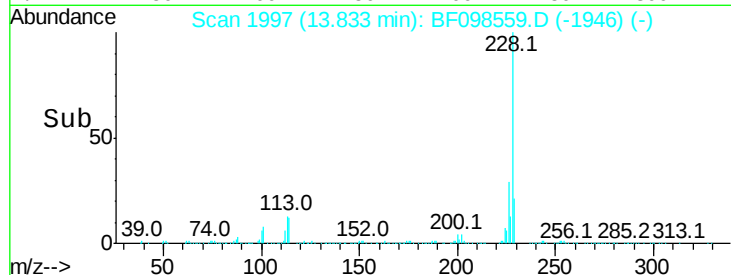
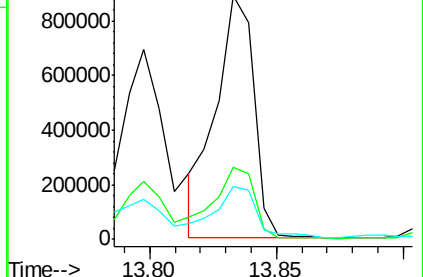
229 21.9 15.8 23.6



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



#83

Bis(2-ethylhexyl)phthalate

Concen: 9.489 ng

RT: 13.79 min Scan# 1989

Delta R.T. 0.00 min

Lab File: BF098559.D

Acq: 15 Sep 2017 10:27

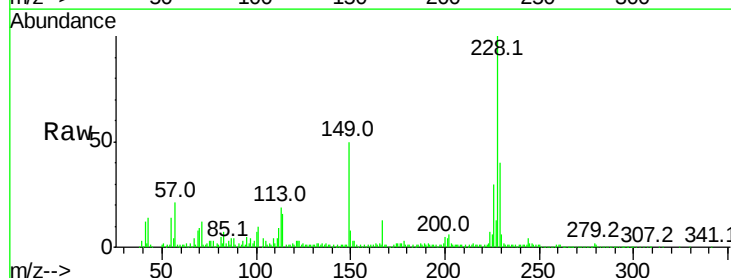
Tgt Ion:149 Resp: 105448

Ion Ratio Lower Upper

149 100

167 26.2 21.0 31.4

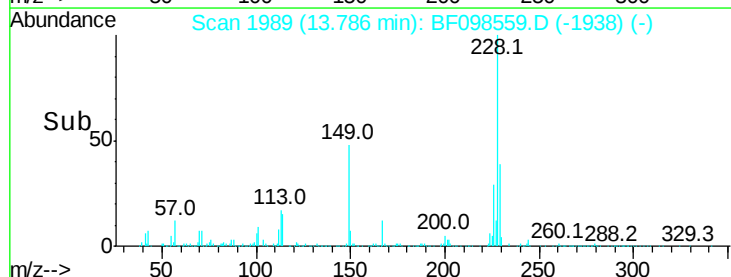
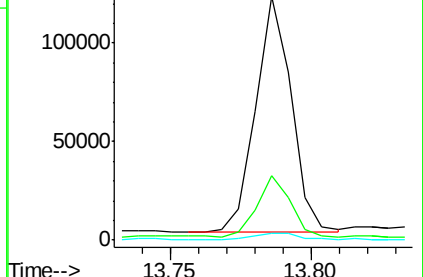
279 3.0 1.9 2.9#

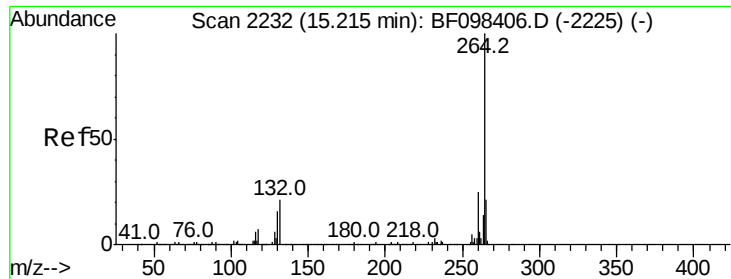


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

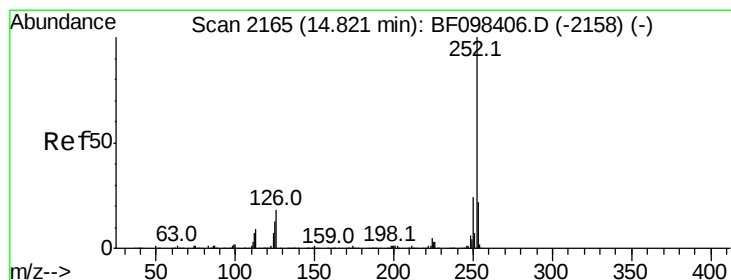
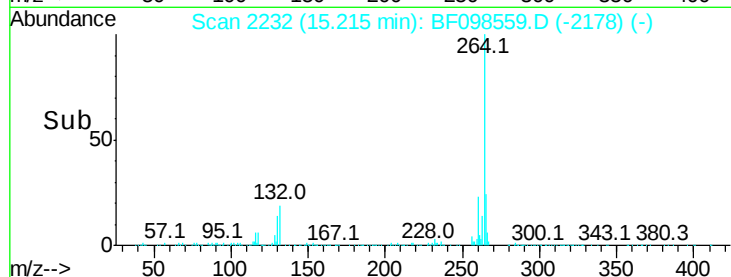
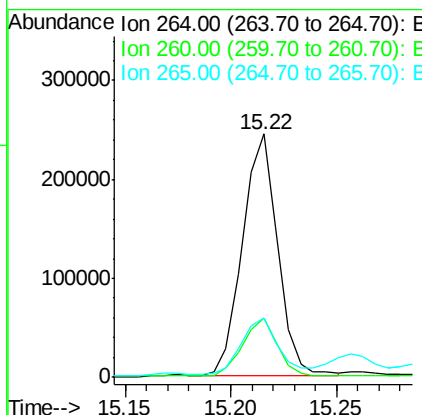
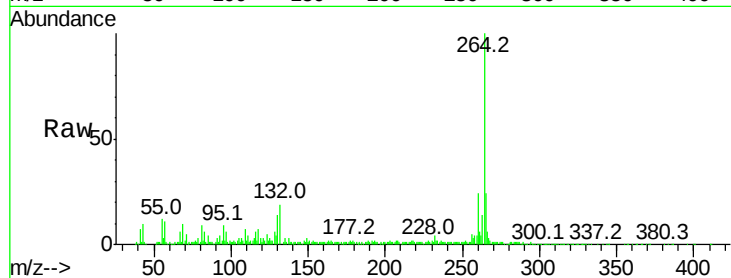




#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.22 min Scan# 2232  
Delta R.T. 0.02 min  
Lab File: BF098559.D  
Acq: 15 Sep 2017 10:27

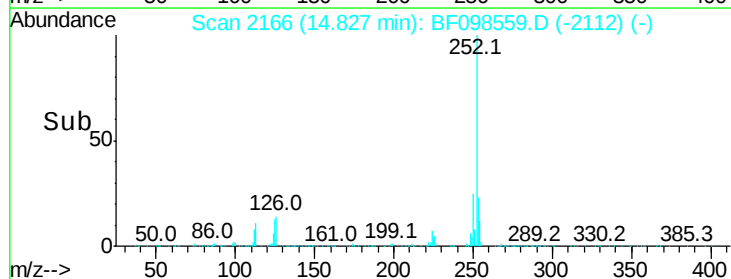
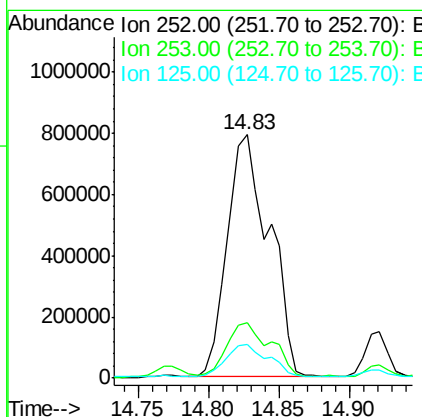
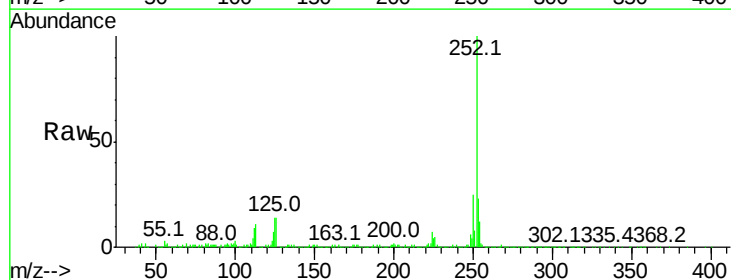
Instrument :  
BNA\_F  
ClientSampleId :  
G-9-1

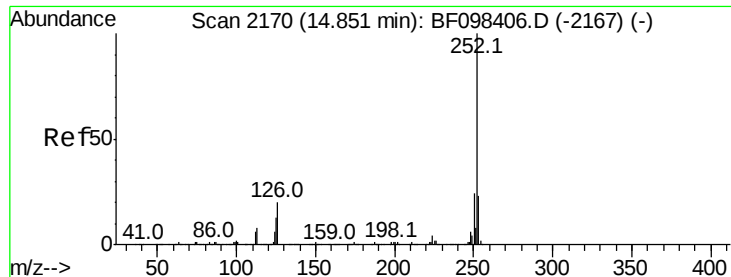
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.1  | 19.5  | 29.3  |
| 265     | 24.3  | 17.2  | 25.8  |



#87  
Benzo(b)fluoranthene  
Concen: 92.542 ng  
RT: 14.83 min Scan# 2166  
Delta R.T. 0.02 min  
Lab File: BF098559.D  
Acq: 15 Sep 2017 10:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.9  | 18.1  | 27.1  |
| 125     | 13.7  | 9.8   | 14.8  |

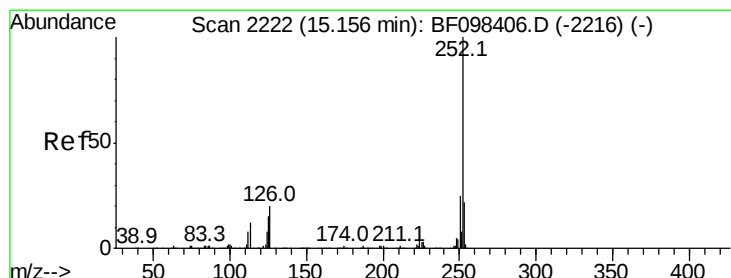
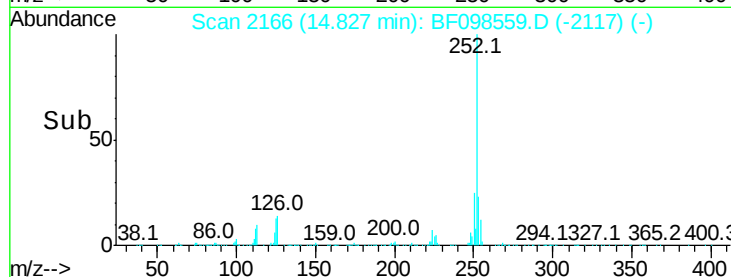
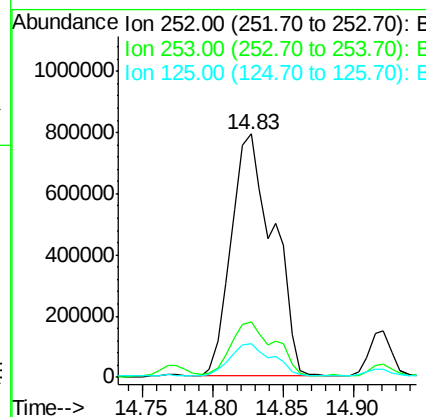
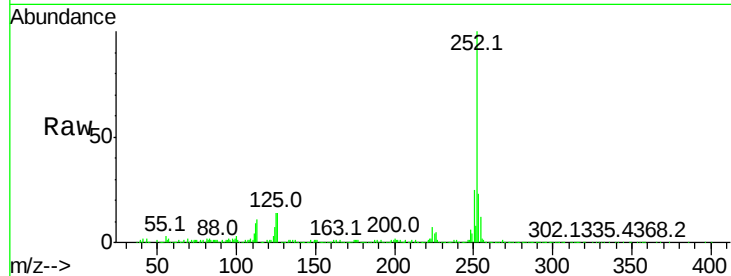




#88  
Benzo(k)fluoranthene  
Concen: 99.128 ng  
RT: 14.83 min Scan# 2166  
Delta R.T. -0.01 min  
Lab File: BF098559.D  
Acq: 15 Sep 2017 10:27

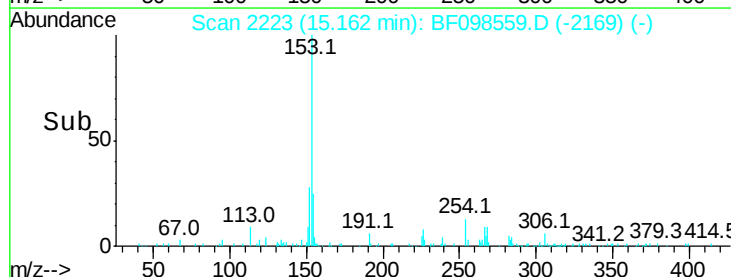
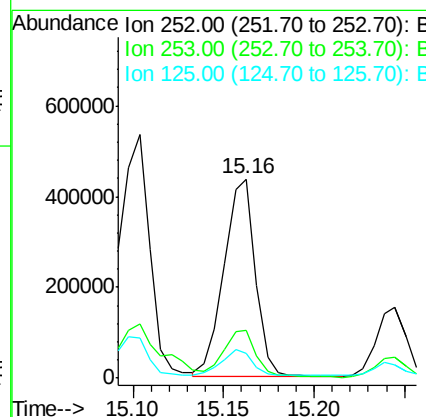
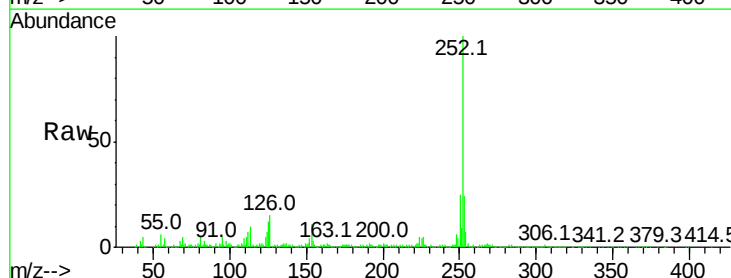
Instrument :  
BNA\_F  
ClientSampleId :  
G-9-1

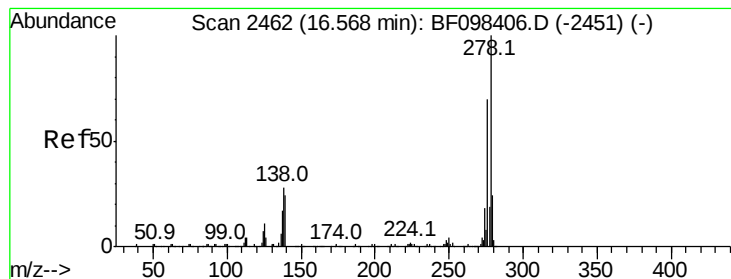
Tot Ion:252 Resp: 1657621  
Ion Ratio Lower Upper  
252 100  
253 22.9 18.4 27.6  
125 13.7 13.1 19.7



#89  
Benzo(a)pyrene  
Concen: 32.917 ng  
RT: 15.16 min Scan# 2223  
Delta R.T. 0.02 min  
Lab File: BF098559.D  
Acq: 15 Sep 2017 10:27

Tgt Ion:252 Resp: 525278  
Ion Ratio Lower Upper  
252 100  
253 23.7 17.5 26.3  
125 12.3 11.0 16.4





#90

Dibenzo(a,h)anthracene

Concen: 5.583 ng

RT: 16.38 min Scan# 2430

Delta R.T. -0.18 min

Lab File: BF098559.D

Acq: 15 Sep 2017 10:27

Instrument :

BNA\_F

ClientSampled :

G-9-1

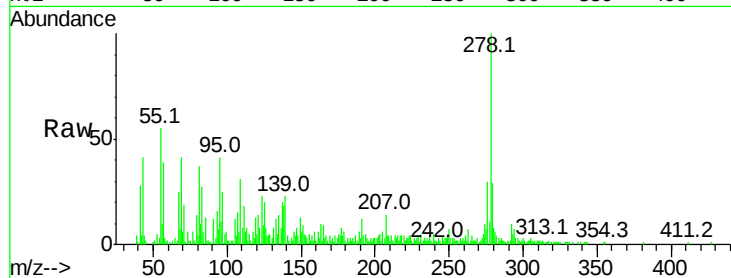
Tot Ion:278 Resp: 64804

Ion Ratio Lower Upper

278 100

139 22.7 16.6 24.8

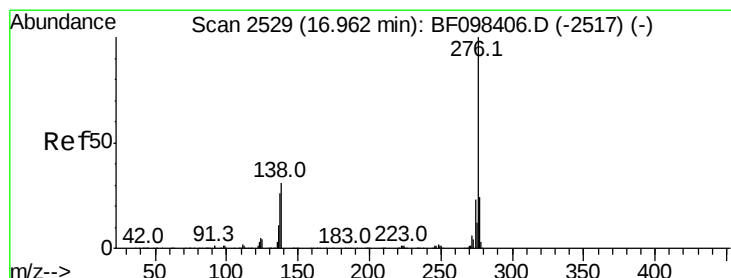
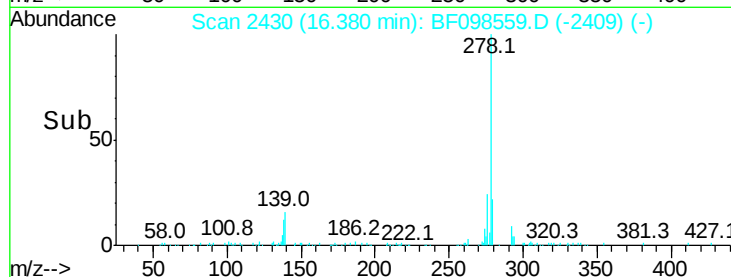
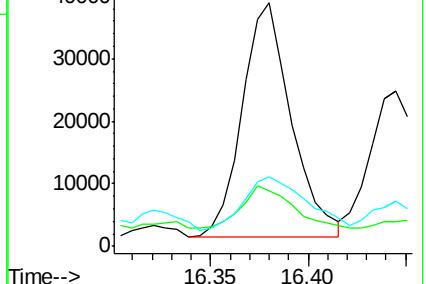
279 28.6 19.3 28.9



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#91

Benzo(g,h,i)perylene

Concen: 30.158 ng

RT: 16.97 min Scan# 2530

Delta R.T. 0.02 min

Lab File: BF098559.D

Acq: 15 Sep 2017 10:27

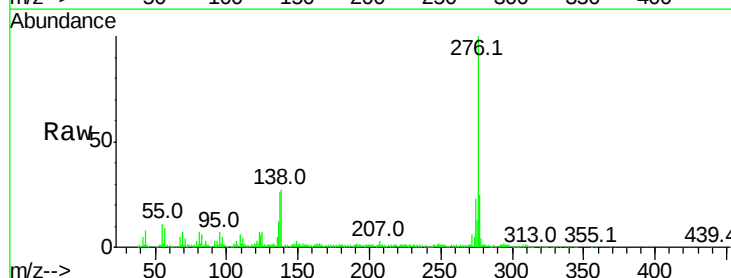
Tgt Ion:276 Resp: 352116

Ion Ratio Lower Upper

276 100

277 25.5 18.6 28.0

138 26.9 25.4 38.0



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

