

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051917\  
 Data File : BF095301.D  
 Acq On : 20 May 2017 13:06  
 Operator : SJ/MA  
 Sample : I3203-05  
 Misc :  
 ALS Vial : 35 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: May 22 01:57:22 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu May 18 17:07:53 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.77  | 152  | 85837    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 9.79  | 136  | 270811   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 12.63 | 164  | 109481   | 20.00 | ng    | 0.01     |
| 63) Phenanthrene-d10      | 15.04 | 188  | 135108   | 20.00 | ng    | 0.02     |
| 75) Chrysene-d12          | 18.72 | 240  | 144198   | 20.00 | ng    | 0.02     |
| 86) Perylene-d12          | 20.39 | 264  | 124219   | 20.00 | ng    | 0.02     |

|                             |       |     |        |        |    |       |
|-----------------------------|-------|-----|--------|--------|----|-------|
| System Monitoring Compounds |       |     |        |        |    |       |
| 5) 2-Fluorophenol           | 5.72  | 112 | 509255 | 98.91  | ng | -0.02 |
| 7) Phenol-d6                | 7.30  | 99  | 646672 | 104.68 | ng | -0.01 |
| 23) Nitrobenzene-d5         | 8.67  | 82  | 389508 | 90.70  | ng | 0.00  |
| 41) 2,4,6-Tribromophenol    | 13.93 | 330 | 79780  | 88.98  | ng | 0.01  |
| 44) 2-Fluorobiphenyl        | 11.57 | 172 | 440370 | 57.90  | ng | 0.00  |
| 78) Terphenyl-d14           | 17.36 | 244 | 260309 | 39.76  | ng | 0.01  |

|                                |       |     |        |        |    |        |
|--------------------------------|-------|-----|--------|--------|----|--------|
| Target Compounds               |       |     |        |        |    | Qvalue |
| 4) n-Nitrosodimethylamine      | 2.81  | 42  | 33864  | 13.88  | ng | # 1    |
| 9) Benzaldehyde                | 7.10  | 77  | 38594  | 10.23  | ng | # 1    |
| 10) Phenol                     | 7.32  | 94  | 25455  | 3.91   | ng | # 64   |
| 17) 2-Methylphenol             | 8.28  | 107 | 29658  | 6.18   | ng | # 70   |
| 18) Hexachloroethane           | 8.53  | 117 | 20067  | 8.79   | ng | # 1    |
| 19) n-Nitroso-di-n-propylamine | 8.45  | 70  | 57313  | 13.72  | ng | # 74   |
| 22) Acetophenone               | 8.41  | 105 | 194827 | 29.98  | ng | # 48   |
| 24) Nitrobenzene               | 8.72  | 77  | 10926  | 2.43   | ng | # 61   |
| 25) Isophorone                 | 9.04  | 82  | 136595 | 17.81  | ng | # 1    |
| 27) 2,4-Dimethylphenol         | 9.37  | 122 | 37978  | 9.67   | ng | # 97   |
| 29) 2,4-Dichlorophenol         | 9.61  | 162 | 11838  | 3.19   | ng | # 1    |
| 31) Naphthalene                | 9.82  | 128 | 725446 | 53.30  | ng | # 100  |
| 32) Benzoic acid               | 9.58  | 122 | 39620  | 18.82  | ng | # 88   |
| 35) Caprolactam                | 10.61 | 113 | 181254 | 162.78 | ng | # 76   |
| 36) 4-Chloro-3-methylphenol    | 10.81 | 107 | 8149   | 2.06   | ng | # 51   |
| 37) 2-Methylnaphthalene        | 10.96 | 142 | 231146 | 25.88  | ng | # 96   |
| 42) 2,4,6-Trichlorophenol      | 11.44 | 196 | 5384   | 2.40   | ng | # 13   |
| 43) 2,4,5-Trichlorophenol      | 11.55 | 196 | 6020   | 2.49   | ng | # 1    |
| 47) 2-Nitroaniline             | 11.98 | 65  | 5451   | 2.68   | ng | # 54   |
| 48) Acenaphthylene             | 12.41 | 152 | 112935 | 9.69   | ng | # 87   |
| 49) Dimethylphthalate          | 12.25 | 163 | 103476 | 11.51  | ng | # 96   |
| 50) 2,6-Dinitrotoluene         | 12.35 | 165 | 5181   | 2.83   | ng | # 56   |
| 51) Acenaphthene               | 12.68 | 154 | 68601  | 9.85   | ng | # 98   |
| 53) 2,4-Dinitrophenol          | 12.88 | 184 | 524    | 6.73   | ng | # 1    |
| 54) Dibenzofuran               | 12.98 | 168 | 44732  | 4.64   | ng | # 72   |
| 55) 4-Nitrophenol              | 13.06 | 139 | 7810   | 6.61   | ng | # 1    |
| 56) 2,4-Dinitrotoluene         | 13.06 | 165 | 8577   | 3.64   | ng | # 61   |
| 57) Fluorene                   | 13.52 | 166 | 113197 | 13.51  | ng | # 95   |
| 65) n-Nitrosodiphenylamine     | 13.75 | 169 | 22172  | 4.52   | ng | # 60   |
| 69) Pentachlorophenol          | 14.80 | 266 | 179    | 6.11   | ng | # 27   |
| 70) Phenanthrene               | 15.08 | 178 | 477502 | 61.51  | ng | # 98   |
| 71) Anthracene                 | 15.08 | 178 | 477502 | 60.22  | ng | # 99   |
| 72) Carbazole                  | 15.45 | 167 | 23531  | 3.26   | ng | # 40   |
| 74) Fluoranthene               | 16.82 | 202 | 322811 | 40.54  | ng | # 99   |

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051917\  
 Data File : BF095301.D  
 Acq On : 20 May 2017 13:06  
 Operator : SJ/MA  
 Sample : I3203-05  
 Misc :  
 ALS Vial : 35 Sample Multiplier: 1

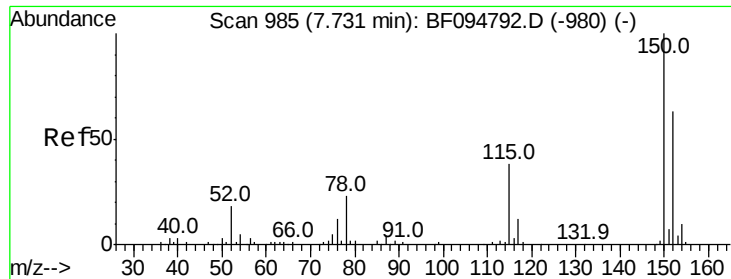
Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: May 22 01:57:22 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu May 18 17:07:53 2017  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 76) Benzidine              | 17.05 | 184  | 1449     | 6.91  | nq    | # 1      |
| 77) Pyrene                 | 17.13 | 202  | 509960   | 47.29 | nq    | 97       |
| 80) Benzo(a)anthracene     | 18.71 | 228  | 149238   | 17.78 | nq    | # 87     |
| 82) Chrysene               | 18.75 | 228  | 147510   | 18.18 | nq    | # 91     |
| 85) Indeno(1,2,3-cd)pyrene | 21.72 | 276  | 148105   | 22.47 | nq    | 91       |
| 87) Benzo(b)fluoranthene   | 19.98 | 252  | 285458   | 37.19 | nq    | # 86     |
| 88) Benzo(k)fluoranthene   | 19.98 | 252  | 285458   | 38.55 | nq    | # 89     |
| 89) Benzo(a)pyrene         | 20.33 | 252  | 218158   | 30.80 | nq    | # 85     |
| 90) Dibenzo(a,h)anthracene | 21.72 | 278  | 31325    | 5.36  | nq    | # 75     |
| 91) Benzo(a,h,i)perylene   | 22.11 | 276  | 217959   | 37.97 | nq    | 97       |

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



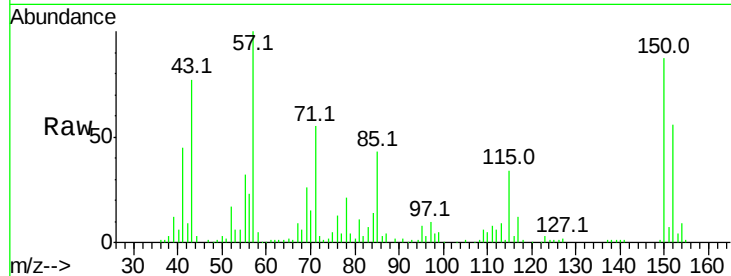


#1

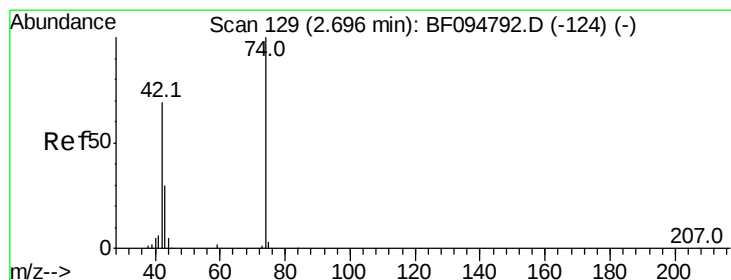
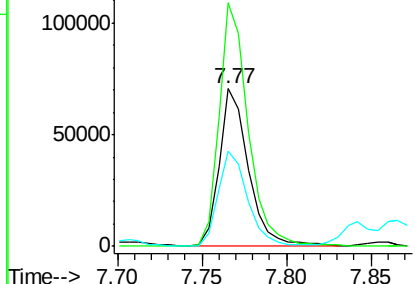
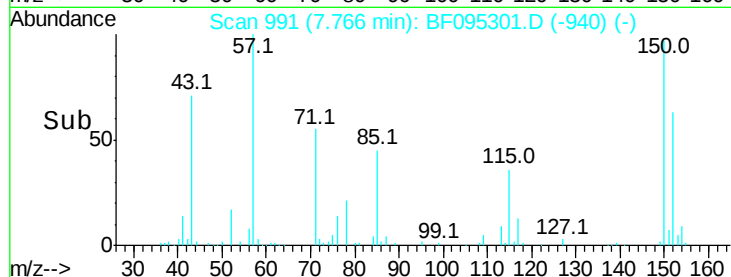
1,4-Dichlorobenzene-d4  
 Concen: 20.00 ng  
 RT: 7.77 min Scan# 991  
 Delta R.T. -0.00 min  
 Lab File: BF095301.D  
 Acq: 20 May 2017 13:06

Instrument :  
 BNA\_F  
 ClientSampled :

Tot Ion:152 Resp: 85837  
 Ion Ratio Lower Upper  
 152 100  
 150 154.8 126.2 189.2  
 115 60.2 52.2 78.2



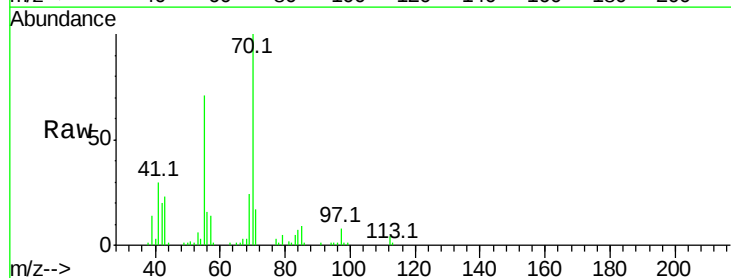
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



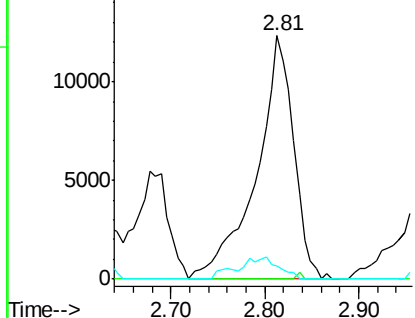
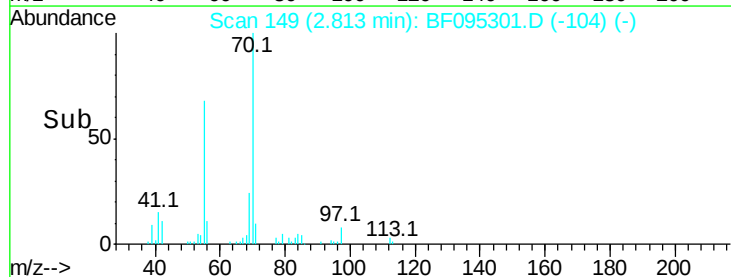
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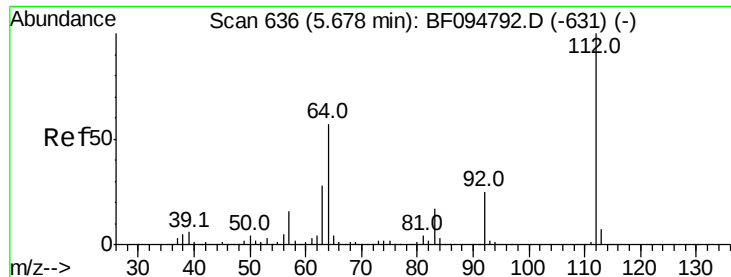
n-Nitrosodimethylamine  
 Concen: 13.88 ng  
 RT: 2.81 min Scan# 149  
 Delta R.T. -0.04 min  
 Lab File: BF095301.D  
 Acq: 20 May 2017 13:06

Tgt Ion: 42 Resp: 33864  
 Ion Ratio Lower Upper  
 42 100  
 74 0.0 103.9 155.9#  
 44 5.4 5.7 8.5#



Abundance Ion 42.00 (41.70 to 42.70): BF0  
 Ion 74.00 (73.70 to 74.70): BF0  
 Ion 44.00 (43.70 to 44.70): BF0





#5

2-Fluorophenol

Concen: 98.91 ng

RT: 5.72 min Scan# 643

Delta R.T. -0.02 min

Lab File: BF095301.D

Acq: 20 May 2017 13:06

Instrument :

BNA\_F

ClientSampled :

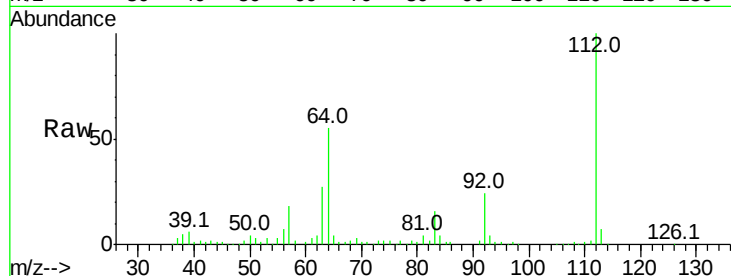
Tot Ion:112 Resp: 509255

Ion Ratio Lower Upper

112 100

64 55.0 46.0 69.0

63 27.0 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

5.72

200000

150000

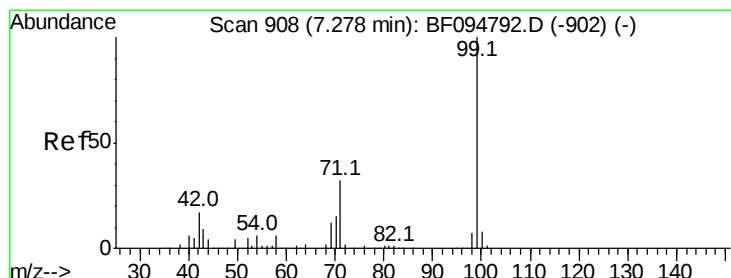
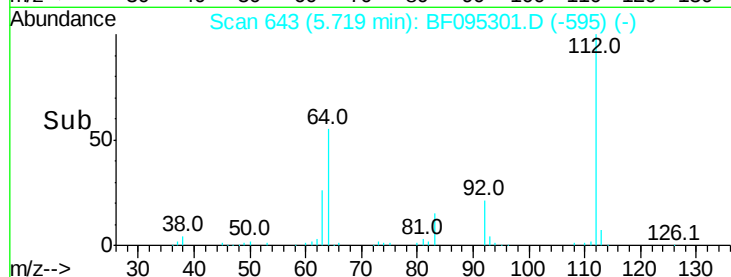
100000

50000

0

5.70 5.80 5.90

Time-->



#7

Phenol-d6

Concen: 104.68 ng

RT: 7.30 min Scan# 912

Delta R.T. -0.01 min

Lab File: BF095301.D

Acq: 20 May 2017 13:06

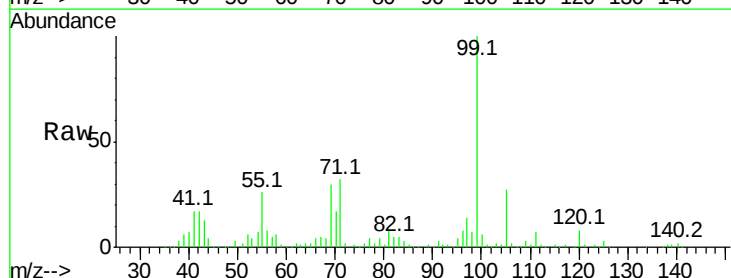
Tgt Ion: 99 Resp: 646672

Ion Ratio Lower Upper

99 100

42 17.4 13.5 20.3

71 32.0 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

7.30

400000

300000

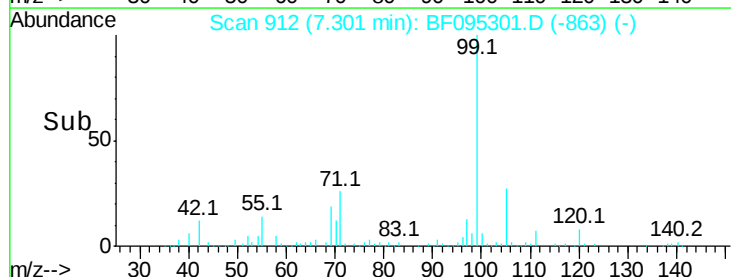
200000

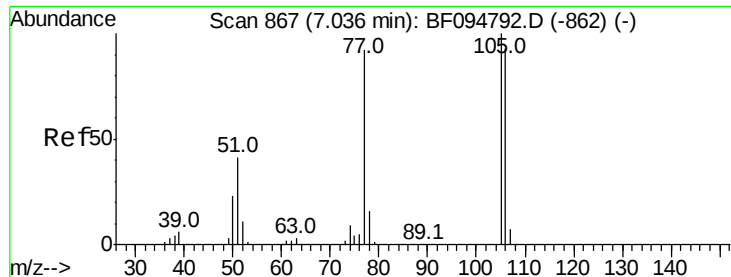
100000

0

7.20 7.40 7.60

Time-->





#9

Benzaldehyde

Concen: 10.23 ng

RT: 7.10 min Scan# 877

Delta R.T. 0.01 min

Lab File: BF095301.D

Acq: 20 May 2017 13:06

Instrument :

BNA\_F

ClientSampled :

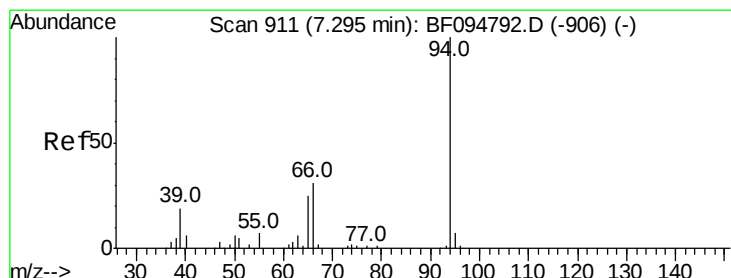
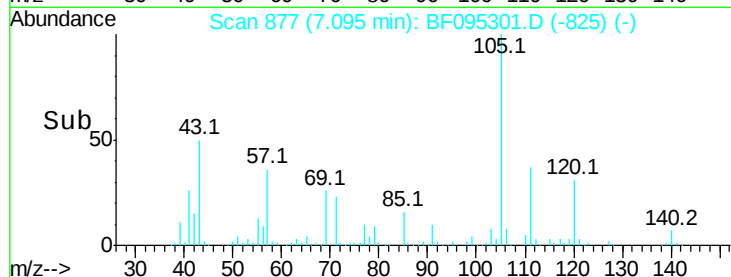
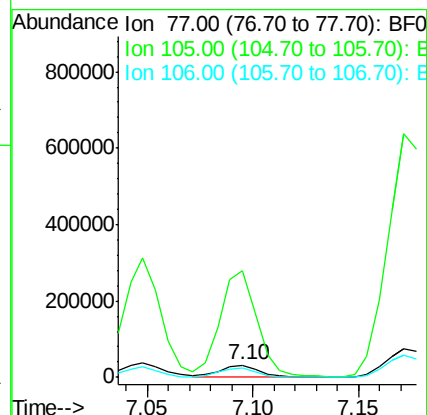
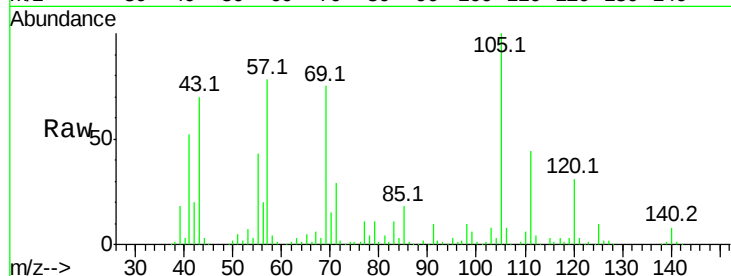
Tot Ion: 77 Resp: 38594

Ion Ratio Lower Upper

77 100

105 880.3 83.8 123.8#

106 72.7 79.1 119.1#



#10

Phenol

Concen: 3.91 ng

RT: 7.32 min Scan# 916

Delta R.T. -0.01 min

Lab File: BF095301.D

Acq: 20 May 2017 13:06

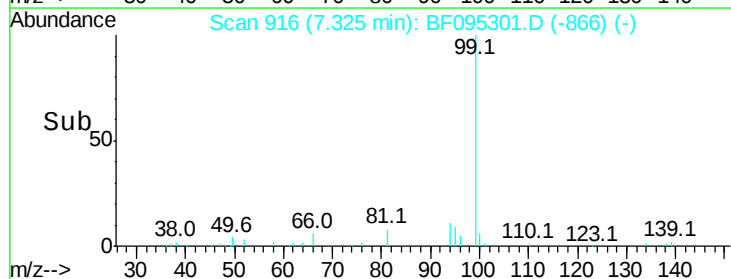
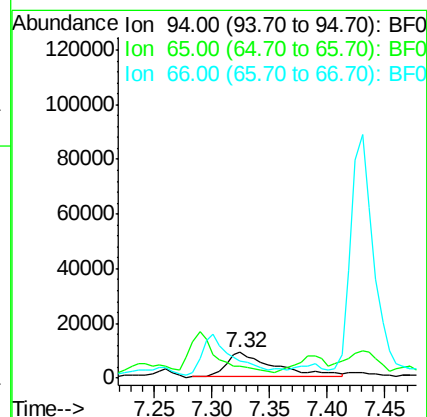
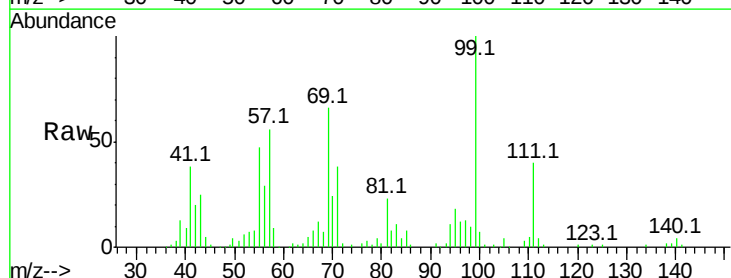
Tgt Ion: 94 Resp: 25455

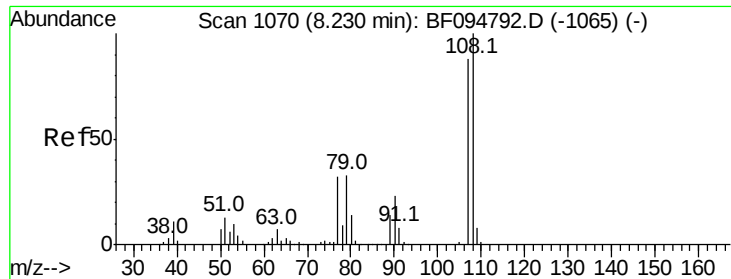
Ion Ratio Lower Upper

94 100

65 46.1 9.9 49.9

66 68.9 23.1 63.1#

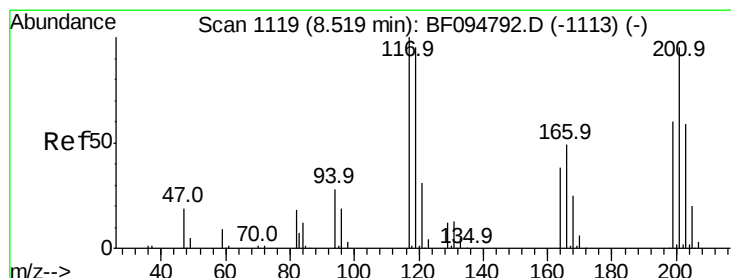
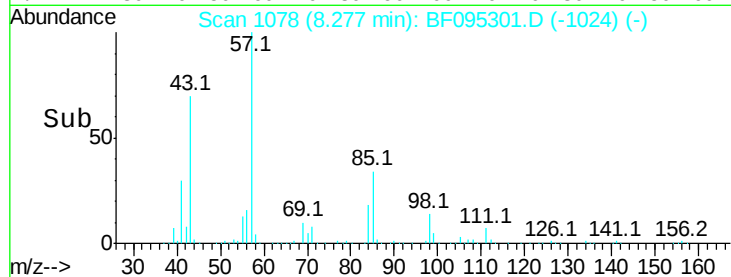
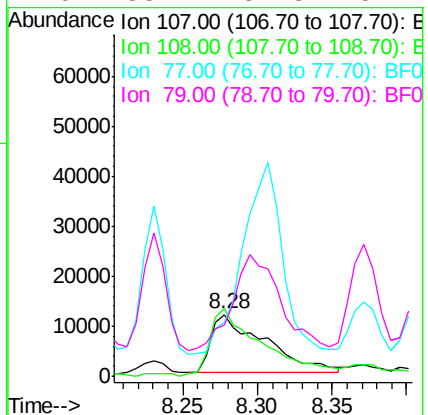
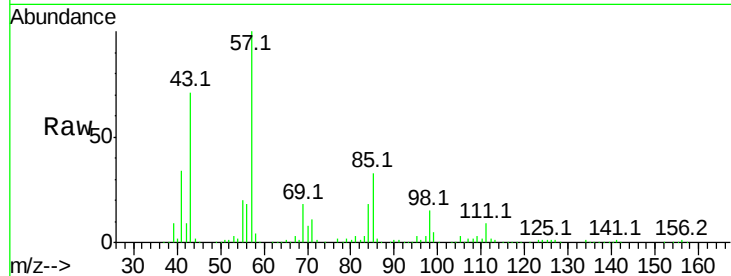




#17  
2-Methylphenol  
Concen: 6.18 ng  
RT: 8.28 min Scan# 1078  
Delta R.T. 0.02 min  
Lab File: BF095301.D  
Acq: 20 May 2017 13:06

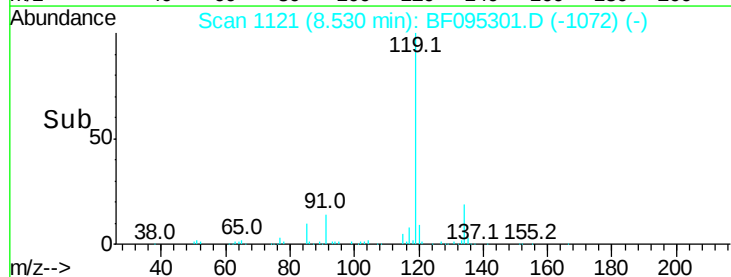
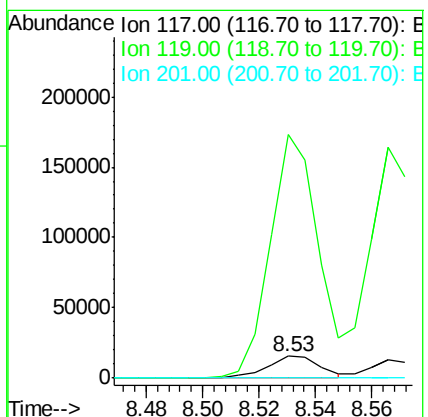
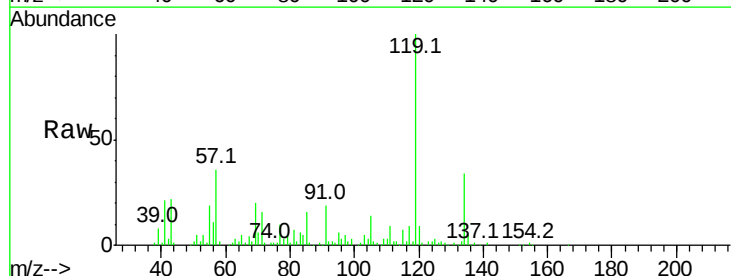
Instrument :  
BNA\_F  
ClientSampled :

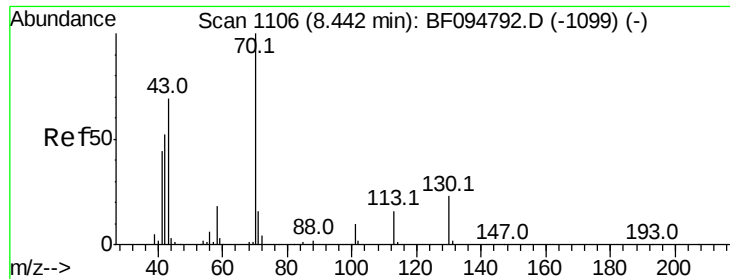
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 107     | 100   |       |       |
| 108     | 110.6 | 93.4  | 140.0 |
| 77      | 86.9  | 35.8  | 53.6# |
| 79      | 83.2  | 34.8  | 52.2# |



#18  
Hexachloroethane  
Concen: 8.79 ng  
RT: 8.53 min Scan# 1121  
Delta R.T. -0.01 min  
Lab File: BF095301.D  
Acq: 20 May 2017 13:06

| Tgt Ion | Ratio  | Lower | Upper  |
|---------|--------|-------|--------|
| 117     | 100    |       |        |
| 119     | 1115.0 | 77.4  | 116.0# |
| 201     | 0.0    | 94.6  | 141.8# |

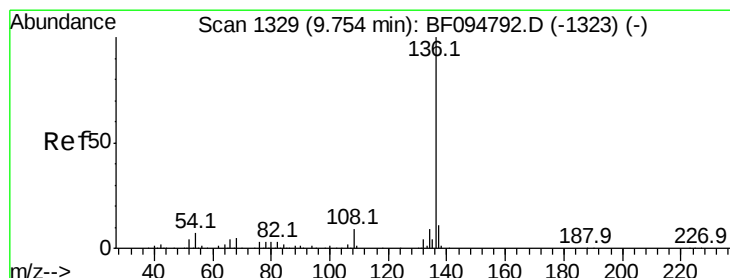
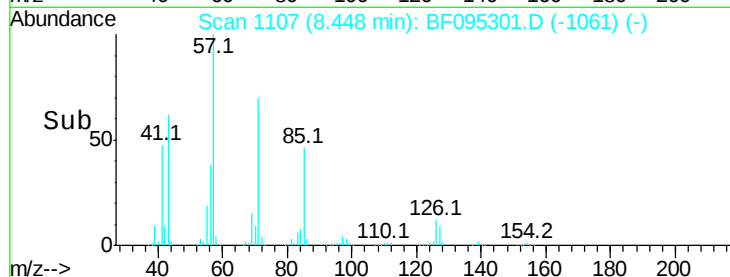
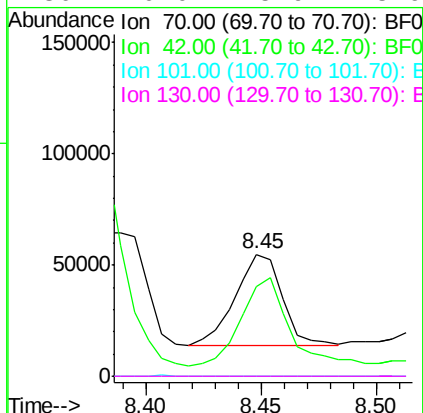
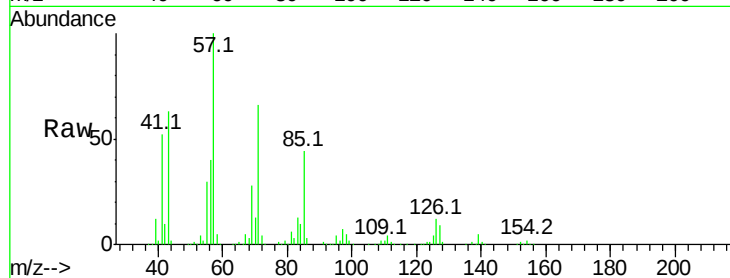




#19  
n-Nitroso-di-n-propylamine  
Concen: 13.72 ng  
RT: 8.45 min Scan# 1107  
Delta R.T. -0.03 min  
Lab File: BF095301.D  
Acq: 20 May 2017 13:06

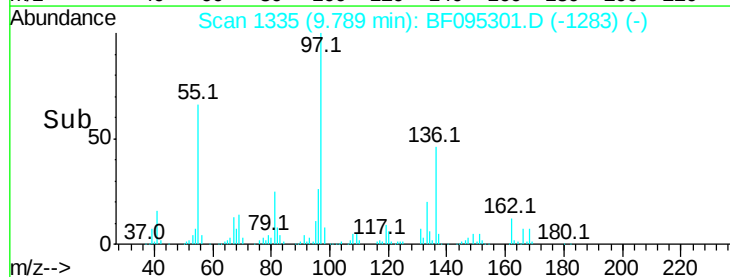
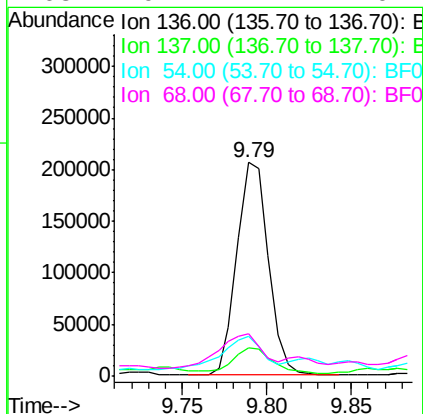
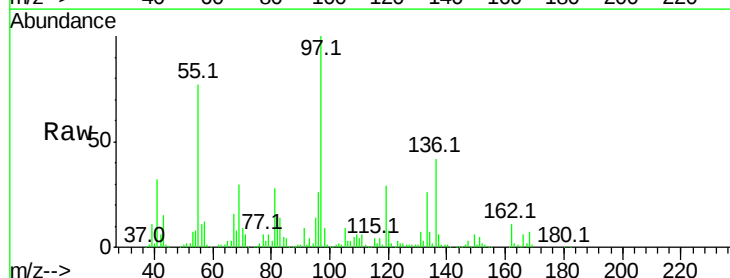
Instrument :  
BNA\_F  
ClientSampled :

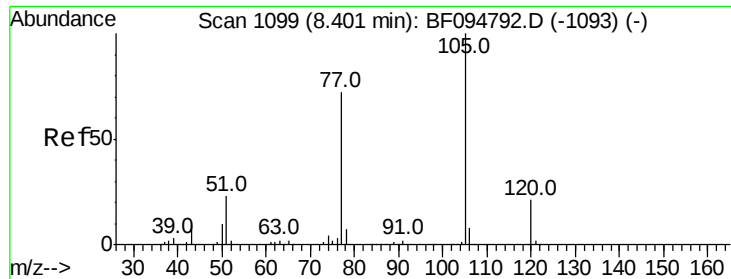
Tot Ion: 70 Resp: 57313  
Ion Ratio Lower Upper  
70 100  
42 73.7 47.2 70.8#  
101 0.0 7.2 10.8#  
130 0.0 15.9 23.9#



#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 9.79 min Scan# 1335  
Delta R.T. 0.01 min  
Lab File: BF095301.D  
Acq: 20 May 2017 13:06

Tgt Ion: 136 Resp: 270811  
Ion Ratio Lower Upper  
136 100  
137 13.2 8.5 12.7#  
54 18.4 4.9 7.3#  
68 19.7 4.1 6.1#

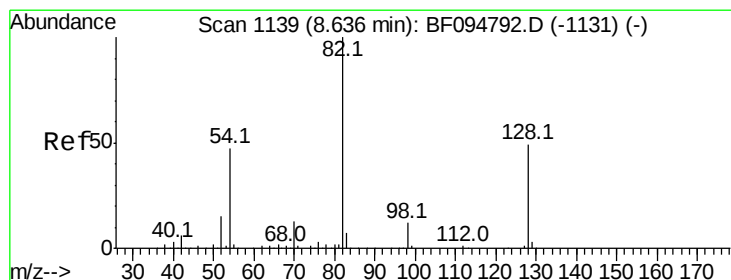
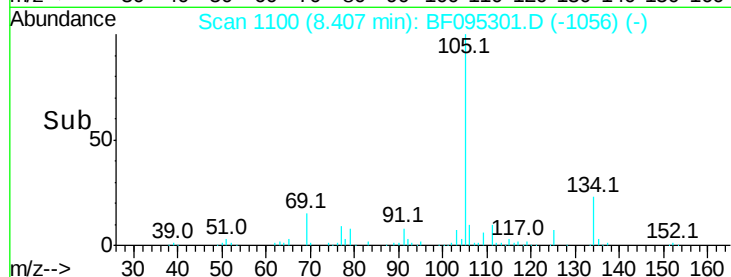
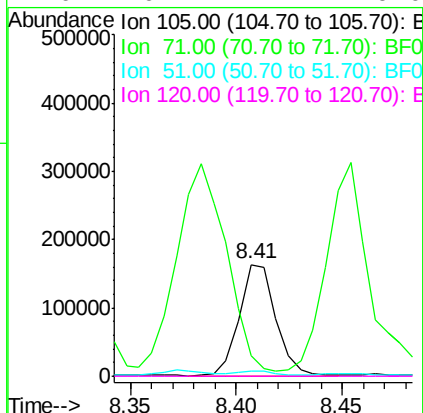
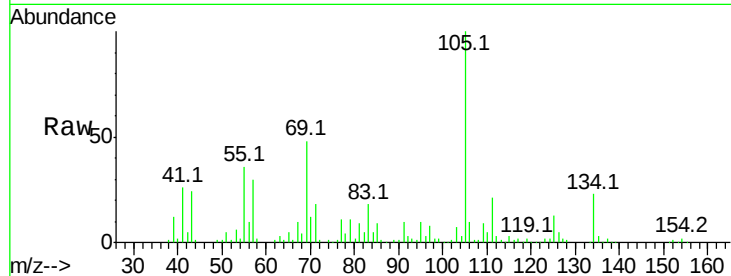




#22  
Acetophenone  
Concen: 29.98 ng  
RT: 8.41 min Scan# 1100  
Delta R.T. -0.04 min  
Lab File: BF095301.D  
Acq: 20 May 2017 13:06

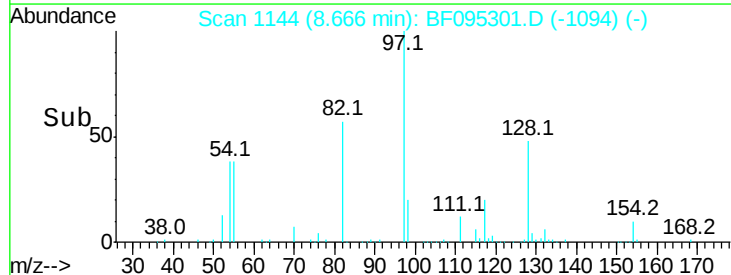
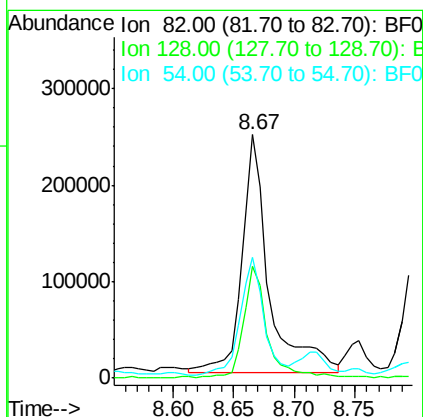
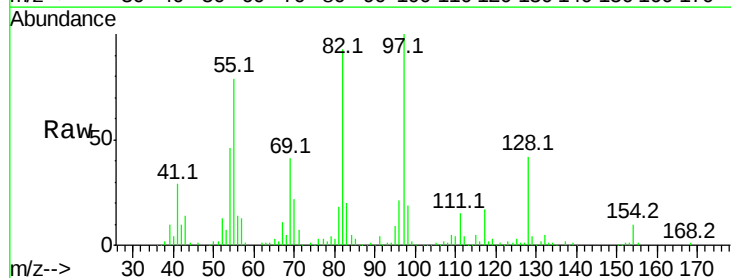
Instrument :  
BNA\_F  
ClientSampleId :

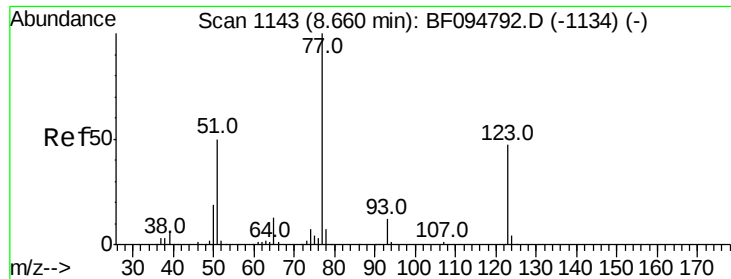
Tot Ion:105 Resp: 194827  
Ion Ratio Lower Upper  
105 100  
71 18.3 2.8 4.2#  
51 4.5 30.7 46.1#  
120 0.2 17.4 26.0#



#23  
Nitrobenzene-d5  
Concen: 90.70 ng  
RT: 8.67 min Scan# 1144  
Delta R.T. -0.01 min  
Lab File: BF095301.D  
Acq: 20 May 2017 13:06

Tgt Ion: 82 Resp: 389508  
Ion Ratio Lower Upper  
82 100  
128 45.8 34.0 51.0  
54 49.5 42.2 63.2

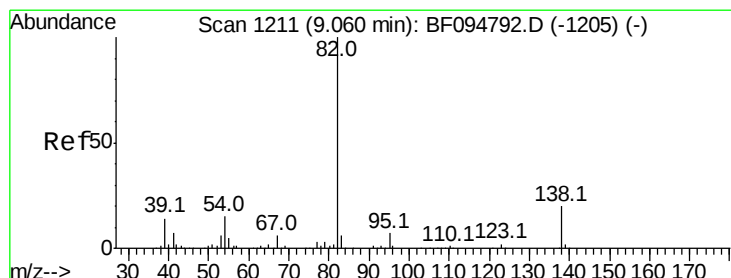
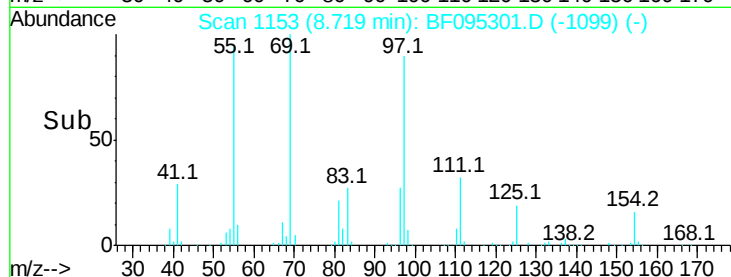
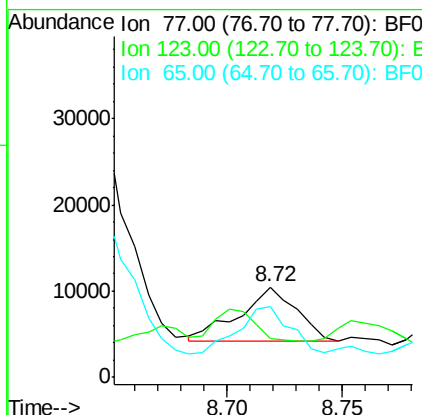
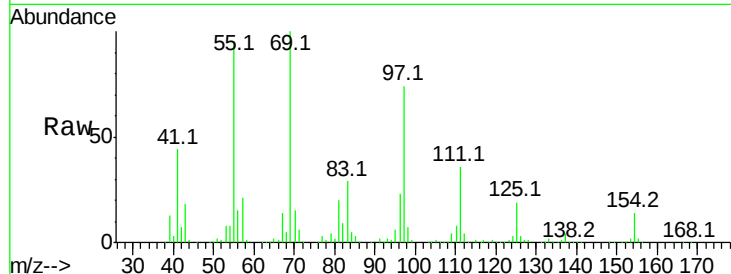




#24  
 Nitrobenzene  
 Concen: 2.43 ng  
 RT: 8.72 min Scan# 1153  
 Delta R.T. 0.02 min  
 Lab File: BF095301.D  
 Acq: 20 May 2017 13:06

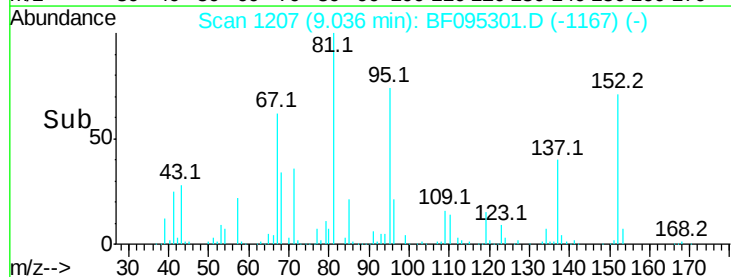
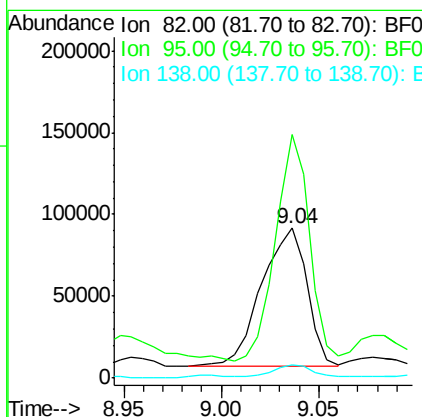
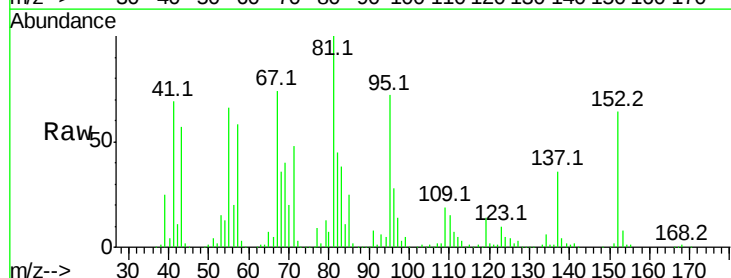
Instrument :  
 BNA\_F  
 ClientSampleId :

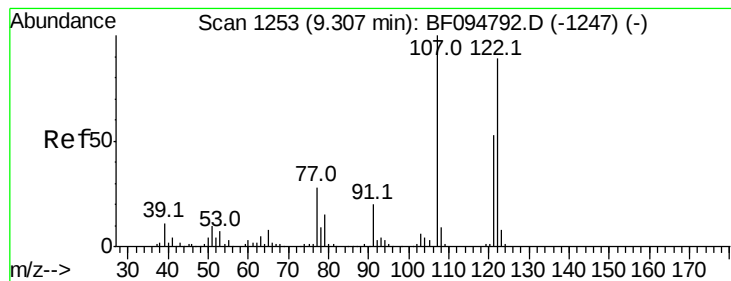
Tot Ion: 77 Resp: 10926  
 Ion Ratio Lower Upper  
 77 100  
 123 43.7 35.8 53.8  
 65 79.1 10.6 15.8#



#25  
 Isophorone  
 Concen: 17.81 ng  
 RT: 9.04 min Scan# 1207  
 Delta R.T. -0.06 min  
 Lab File: BF095301.D  
 Acq: 20 May 2017 13:06

Tgt Ion: 82 Resp: 136595  
 Ion Ratio Lower Upper  
 82 100  
 95 162.7 5.3 7.9#  
 138 9.1 13.1 19.7#





#27

2,4-Dimethylphenol

Concen: 9.67 ng

RT: 9.37 min Scan# 1264

Delta R.T. 0.04 min

Lab File: BF095301.D

Acq: 20 May 2017 13:06

Instrument :

BNA\_F

ClientSampleId :

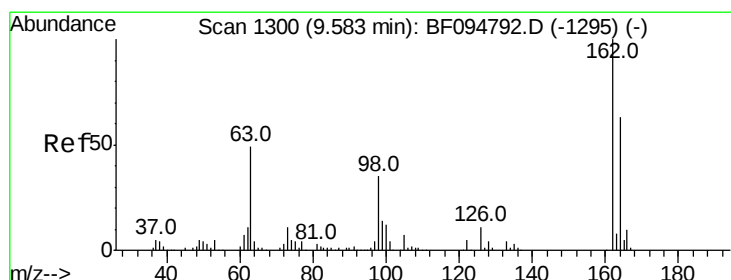
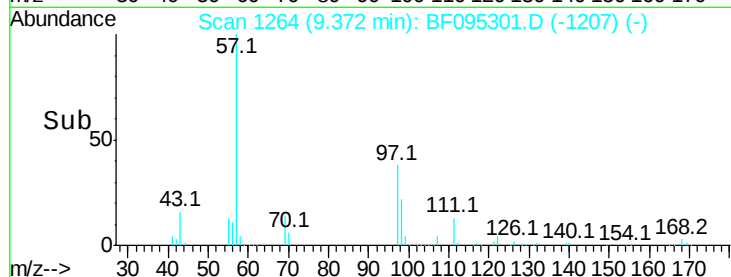
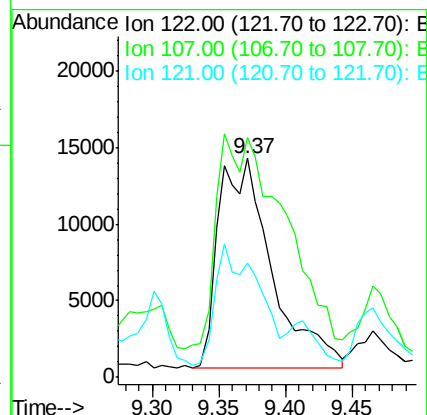
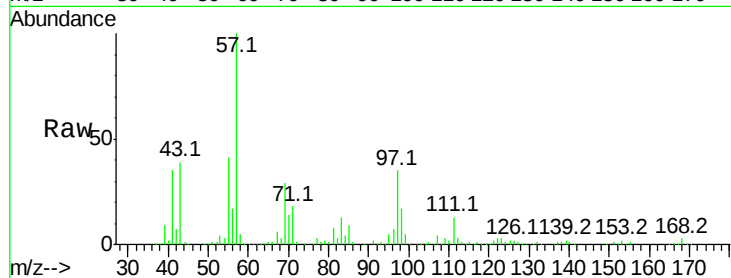
Tot Ion:122 Resp: 37978

Ion Ratio Lower Upper

122 100

107 109.6 89.2 133.8

121 52.4 45.2 67.8



#29

2,4-Dichlorophenol

Concen: 3.19 ng

RT: 9.61 min Scan# 1304

Delta R.T. -0.02 min

Lab File: BF095301.D

Acq: 20 May 2017 13:06

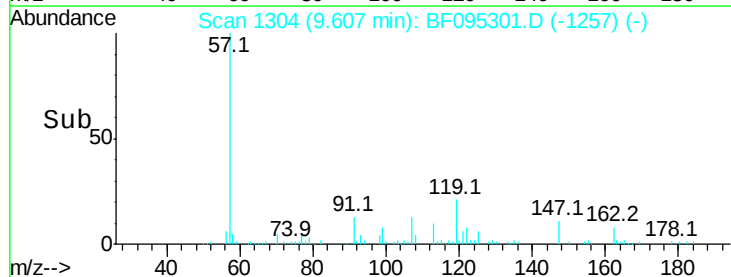
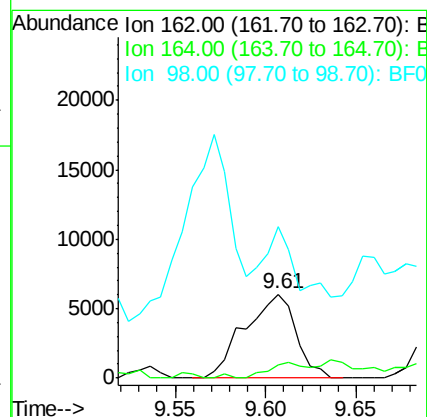
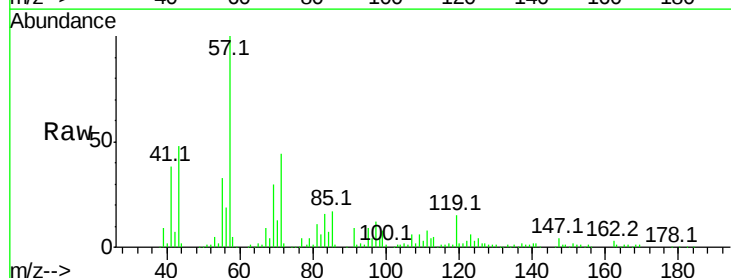
Tgt Ion:162 Resp: 11838

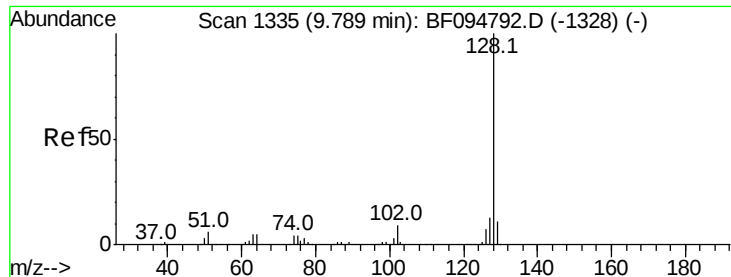
Ion Ratio Lower Upper

162 100

164 15.1 44.6 84.6#

98 180.1 14.8 54.8#

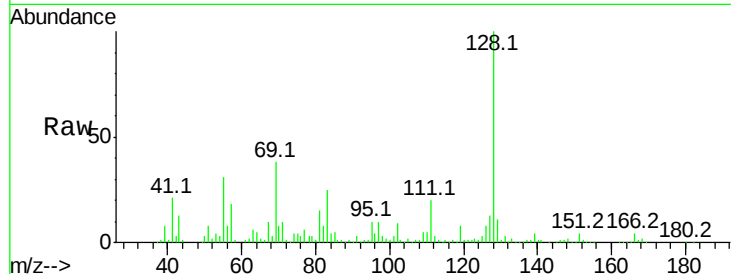




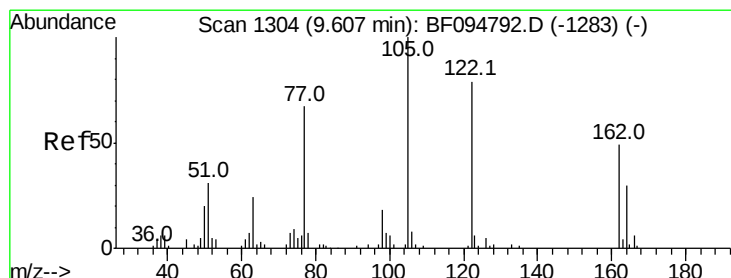
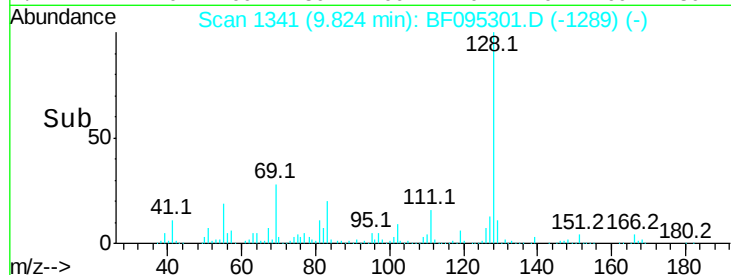
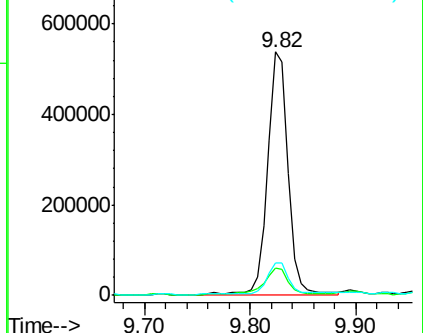
#31  
Naphthalene  
Concen: 53.30 ng  
RT: 9.82 min Scan# 1341  
Delta R.T. 0.01 min  
Lab File: BF095301.D  
Acq: 20 May 2017 13:06

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:128 Resp: 725446  
Ion Ratio Lower Upper  
128 100  
129 11.3 9.0 13.6  
127 13.3 10.8 16.2

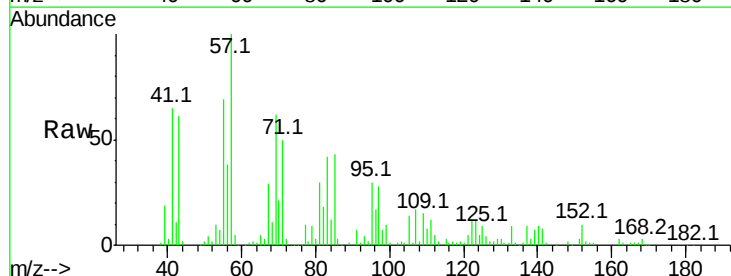


Abundance Ion 128.00 (127.70 to 128.70): E  
Ion 129.00 (128.70 to 129.70): E  
Ion 127.00 (126.70 to 127.70): E

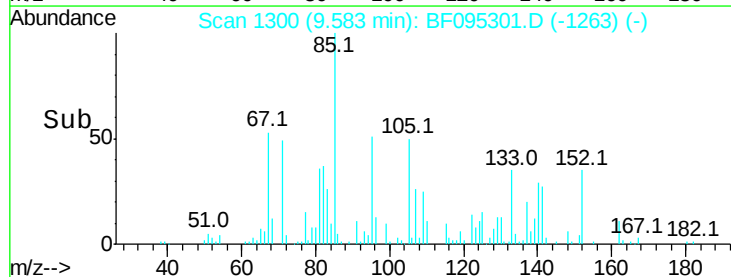
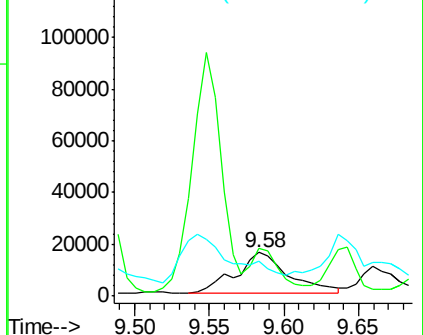


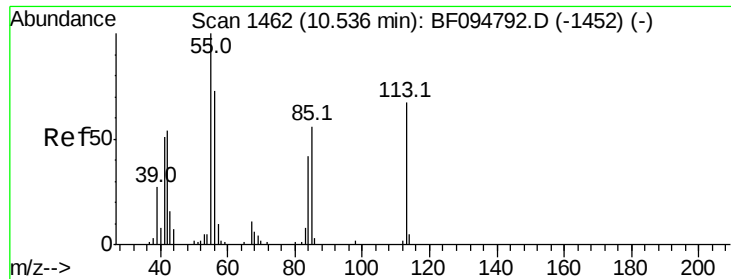
#32  
Benzoic acid  
Concen: 18.82 ng  
RT: 9.58 min Scan# 1300  
Delta R.T. -0.08 min  
Lab File: BF095301.D  
Acq: 20 May 2017 13:06

Tgt Ion:122 Resp: 39620  
Ion Ratio Lower Upper  
122 100  
105 111.6 103.3 143.3  
77 79.4 73.7 113.7



Abundance Ion 122.00 (121.70 to 122.70): E  
Ion 105.00 (104.70 to 105.70): E  
Ion 77.00 (76.70 to 77.70): BF0





#35

Caprolactam

Concen: 162.78 ng

RT: 10.61 min Scan# 1474

Delta R.T. 0.01 min

Lab File: BF095301.D

Acq: 20 May 2017 13:06

Instrument :

BNA\_F

ClientSampleId :

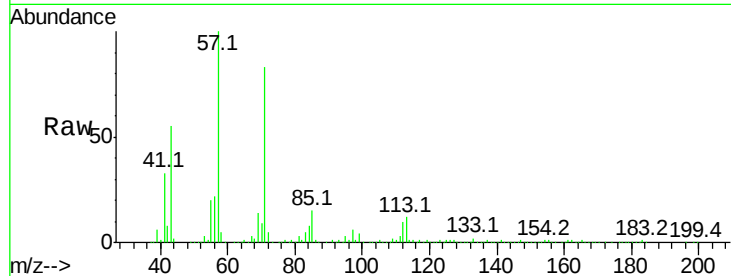
Tot Ion:113 Resp: 181254

Ion Ratio Lower Upper

113 100

55 173.3 150.2 190.2

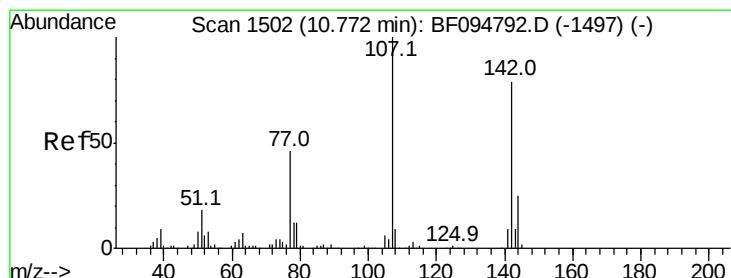
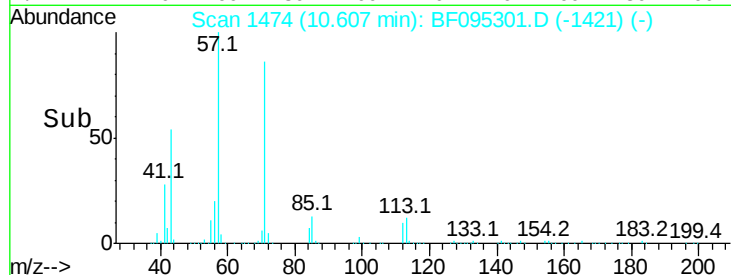
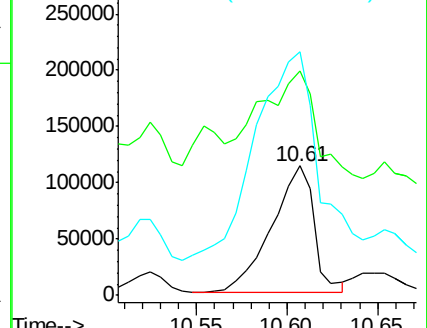
56 188.4 107.8 147.8#



Abundance Ion 113.00 (112.70 to 113.70): E

Ion 55.00 (54.70 to 55.70): BF0

Ion 56.00 (55.70 to 56.70): BF0



#36

4-Chloro-3-methylphenol

Concen: 2.06 ng

RT: 10.81 min Scan# 1508

Delta R.T. -0.01 min

Lab File: BF095301.D

Acq: 20 May 2017 13:06

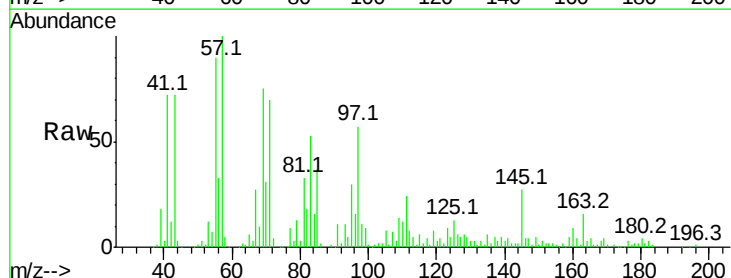
Tgt Ion:107 Resp: 8149

Ion Ratio Lower Upper

107 100

144 21.7 24.2 36.4#

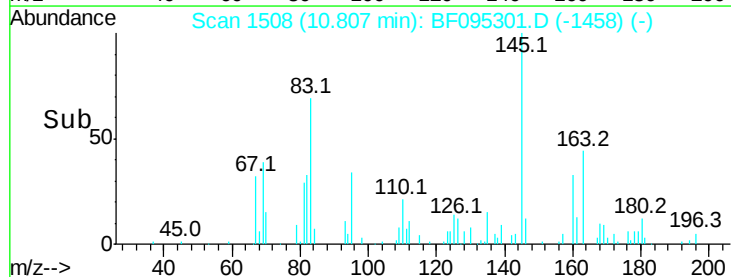
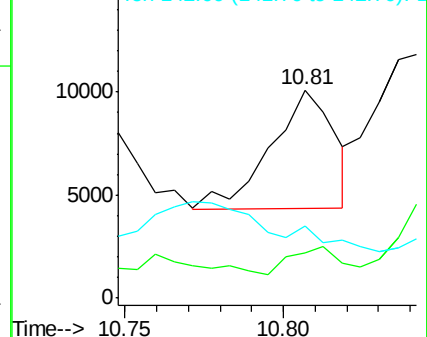
142 34.9 73.4 110.0#

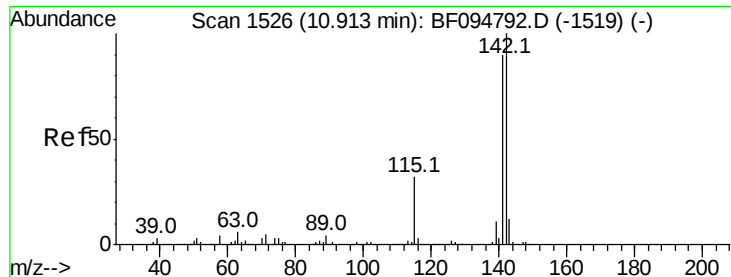


Abundance Ion 107.00 (106.70 to 107.70): E

Ion 144.00 (143.70 to 144.70): E

Ion 142.00 (141.70 to 142.70): E

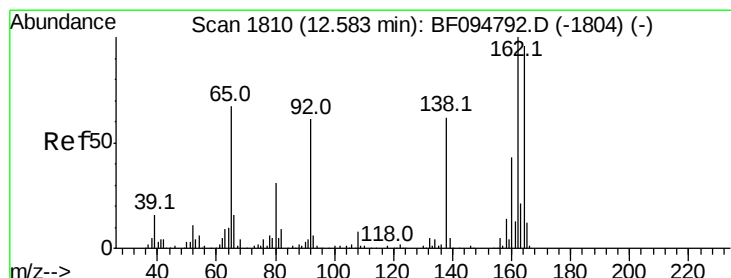
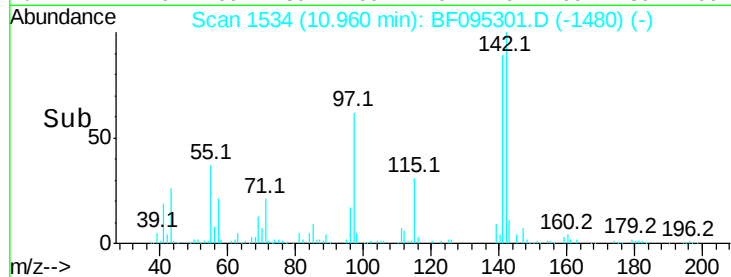
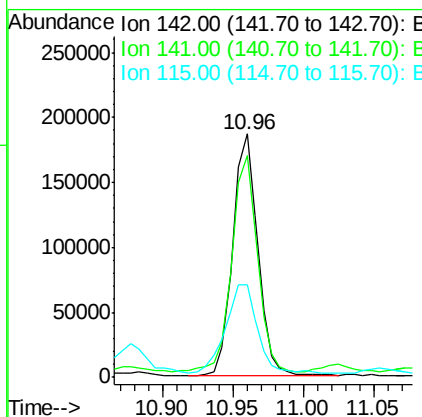
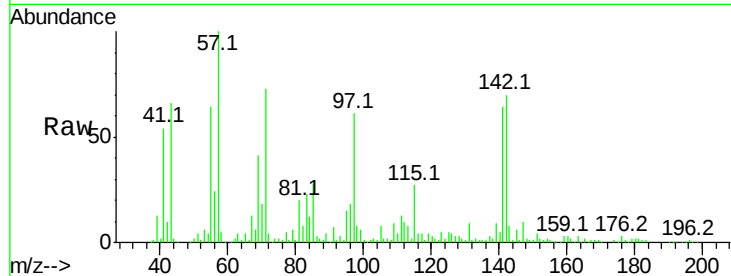




#37  
 2-Methylnaphthalene  
 Concen: 25.88 ng  
 RT: 10.96 min Scan# 1534  
 Delta R.T. 0.02 min  
 Lab File: BF095301.D  
 Acq: 20 May 2017 13:06

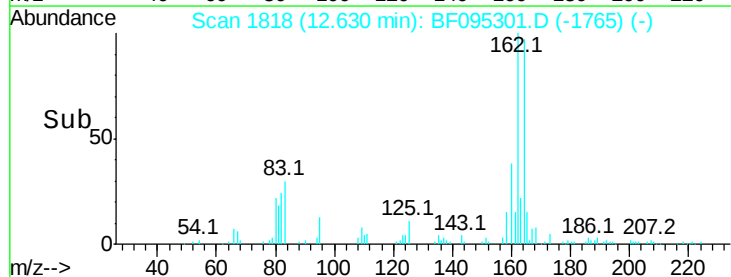
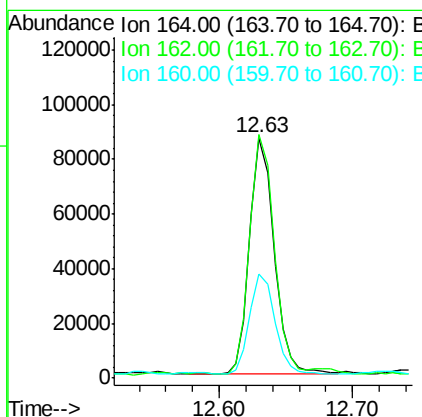
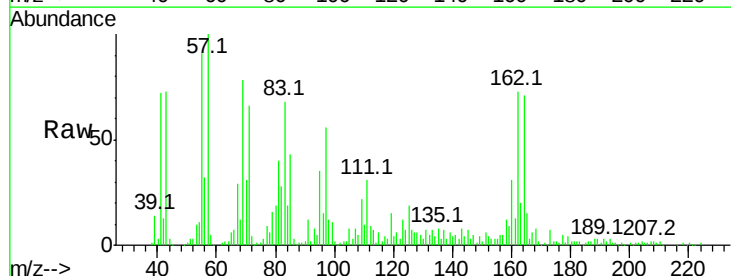
Instrument :  
 BNA\_F  
 ClientSampled :

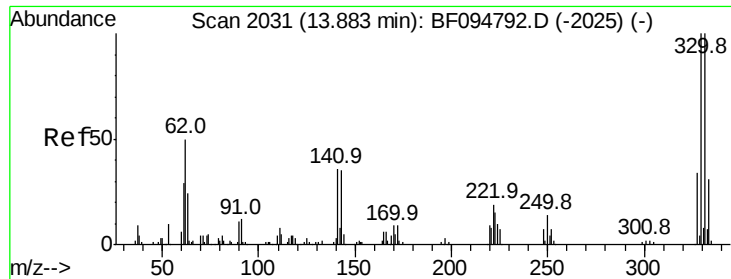
Tot Ion:142 Resp: 231146  
 Ion Ratio Lower Upper  
 142 100  
 141 91.0 71.3 106.9  
 115 38.2 27.1 40.7



#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 12.63 min Scan# 1818  
 Delta R.T. 0.01 min  
 Lab File: BF095301.D  
 Acq: 20 May 2017 13:06

Tgt Ion:164 Resp: 109481  
 Ion Ratio Lower Upper  
 164 100  
 162 101.6 82.6 123.8  
 160 43.6 36.2 54.2

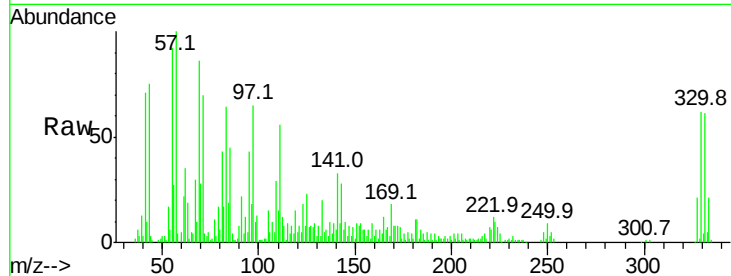




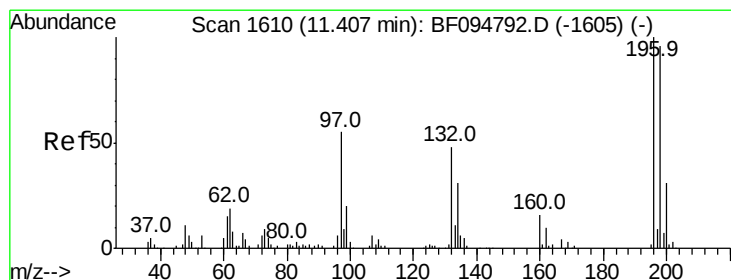
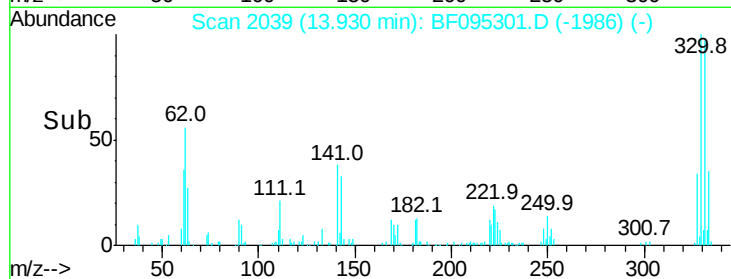
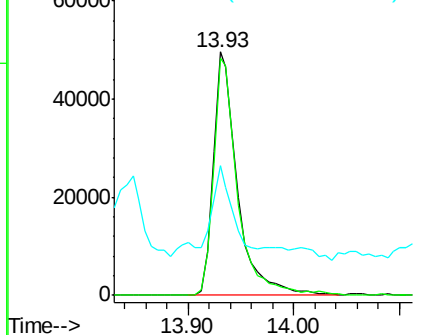
#41  
 2,4,6-Tribromophenol  
 Concen: 88.98 ng  
 RT: 13.93 min Scan# 2039  
 Delta R.T. 0.01 min  
 Lab File: BF095301.D  
 Acq: 20 May 2017 13:06

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:330 Resp: 79780  
 Ion Ratio Lower Upper  
 330 100  
 332 97.5 76.6 115.0  
 141 35.2 31.4 47.2

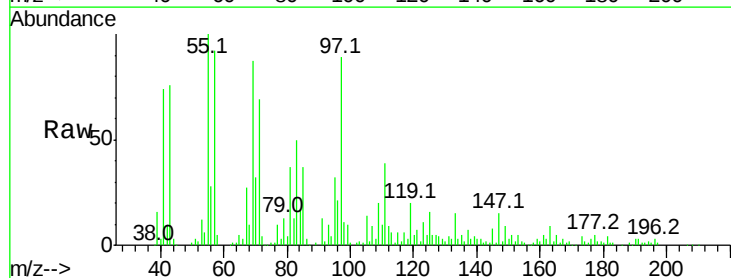


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

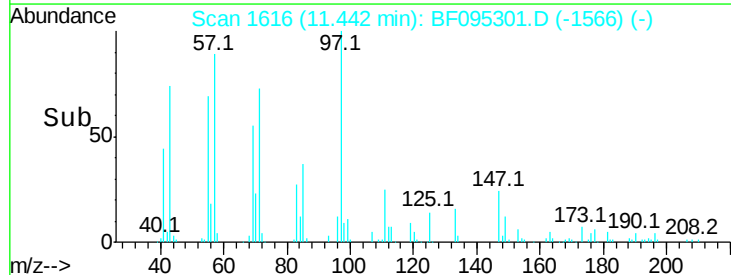
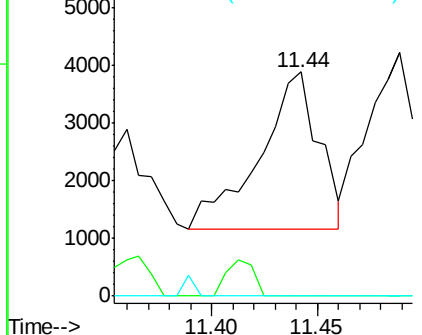


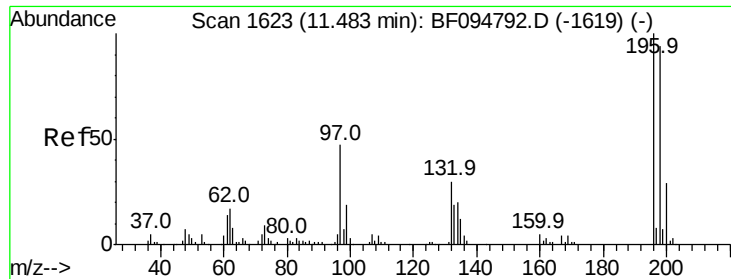
#42  
 2,4,6-Trichlorophenol  
 Concen: 2.40 ng  
 RT: 11.44 min Scan# 1616  
 Delta R.T. -0.01 min  
 Lab File: BF095301.D  
 Acq: 20 May 2017 13:06

Tgt Ion:196 Resp: 5384  
 Ion Ratio Lower Upper  
 196 100  
 198 0.0 74.2 111.4#  
 200 0.0 24.0 36.0#



Abundance Ion 196.00 (195.70 to 196.70): E  
 Ion 198.00 (197.70 to 198.70): E  
 Ion 200.00 (199.70 to 200.70): E

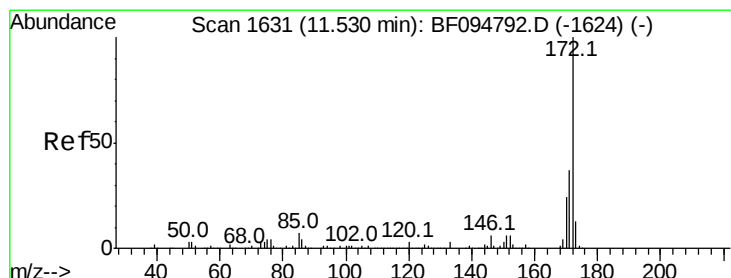
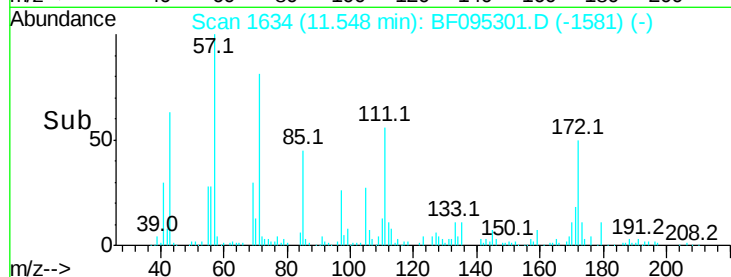
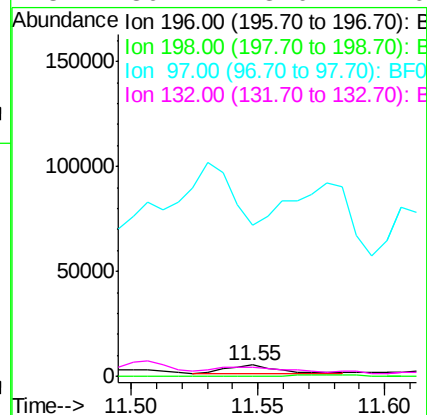
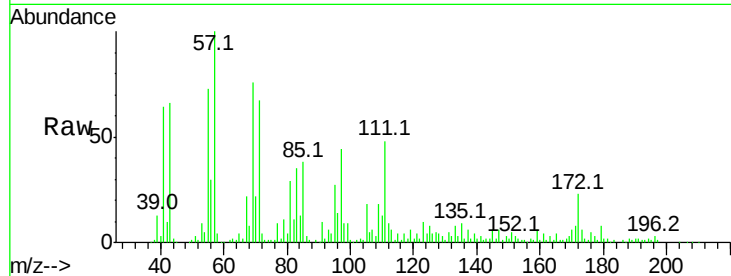




#43  
 2,4,5-Trichlorophenol  
 Concen: 2.49 ng  
 RT: 11.55 min Scan# 1634  
 Delta R.T. 0.01 min  
 Lab File: BF095301.D  
 Acq: 20 May 2017 13:06

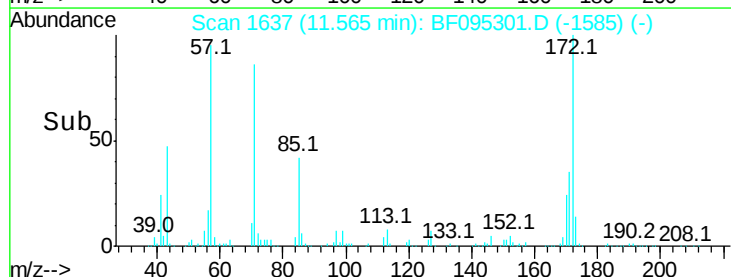
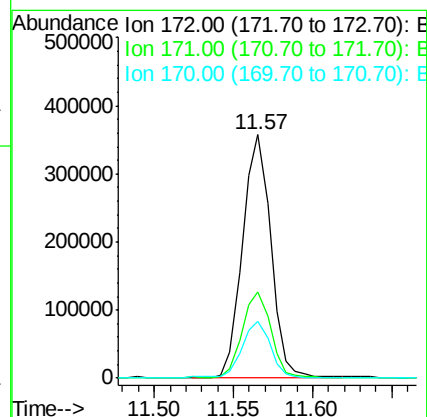
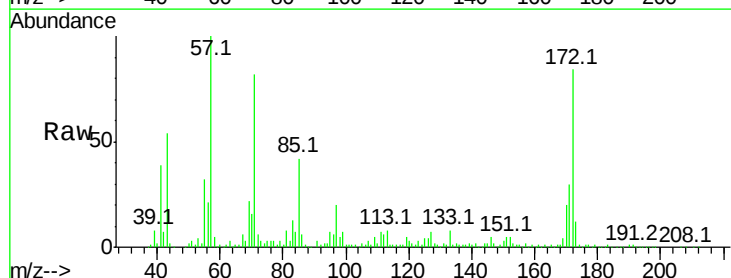
Instrument :  
 BNA\_F  
 ClientSampleId :

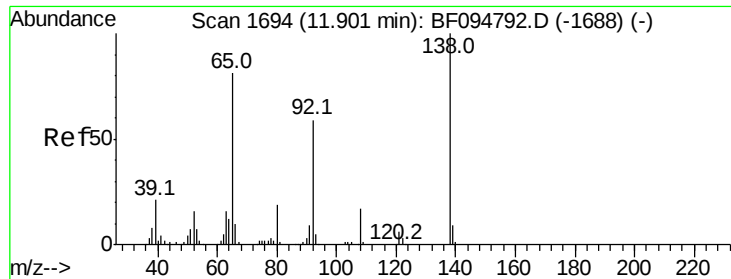
Tot Ion:196 Resp: 6020  
 Ion Ratio Lower Upper  
 196 100  
 198 0.0 75.7 113.5#  
 97 1375.1 47.7 71.5#  
 132 80.4 28.0 42.0#



#44  
 2-Fluorobiphenyl  
 Concen: 57.90 ng  
 RT: 11.57 min Scan# 1637  
 Delta R.T. 0.01 min  
 Lab File: BF095301.D  
 Acq: 20 May 2017 13:06

Tgt Ion:172 Resp: 440370  
 Ion Ratio Lower Upper  
 172 100  
 171 35.5 29.6 44.4  
 170 23.6 19.8 29.8

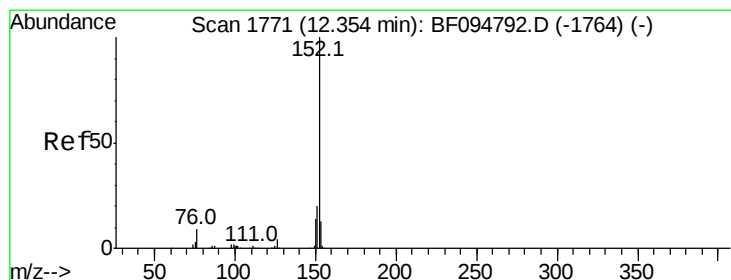
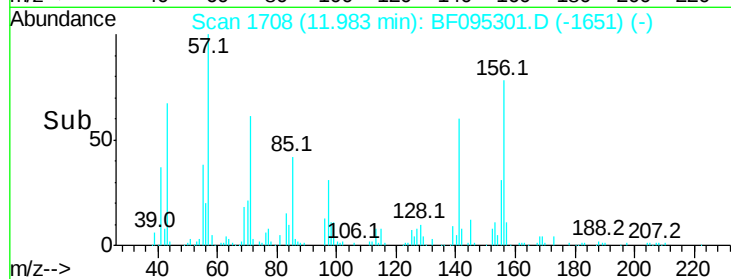
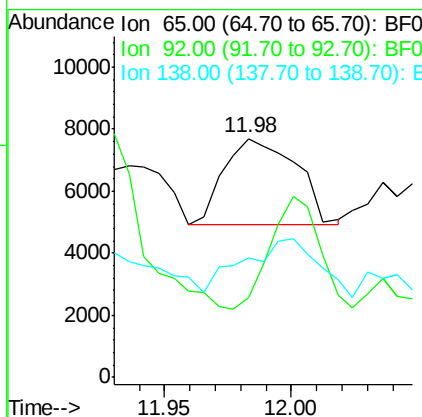
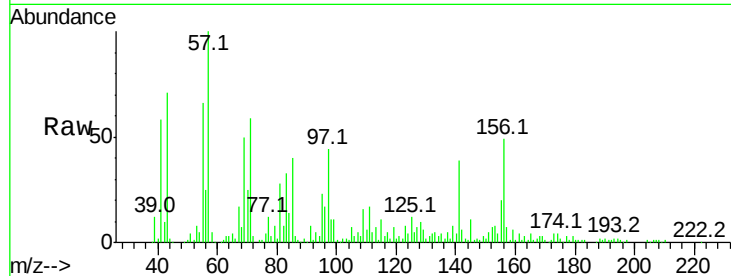




#47  
 2-Nitroaniline  
 Concen: 2.68 ng  
 RT: 11.98 min Scan# 1708  
 Delta R.T. 0.04 min  
 Lab File: BF095301.D  
 Acq: 20 May 2017 13:06

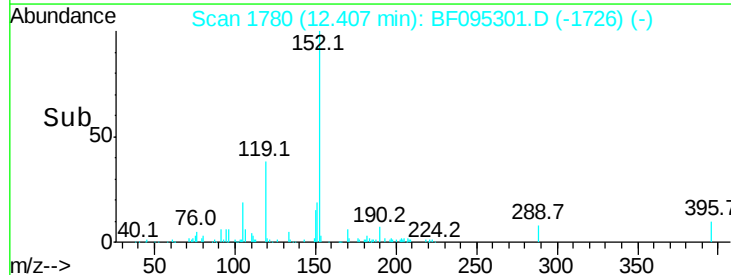
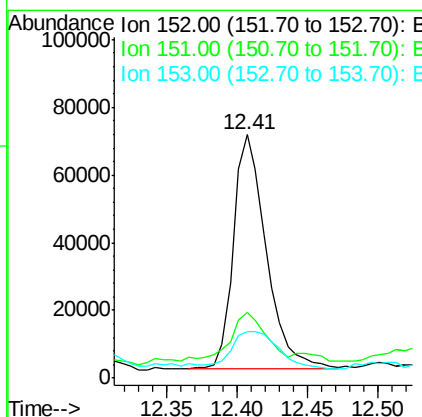
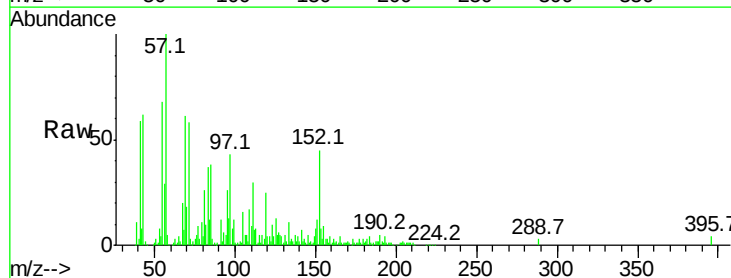
Instrument :  
 BNA\_F  
 ClientSampled :

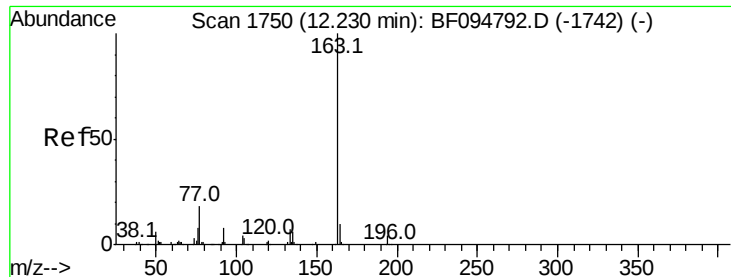
Tot Ion: 65 Resp: 5451  
 Ion Ratio Lower Upper  
 65 100  
 92 33.2 53.9 80.9#  
 138 50.1 78.8 118.2#



#48  
 Acenaphthylene  
 Concen: 9.69 ng  
 RT: 12.41 min Scan# 1780  
 Delta R.T. 0.02 min  
 Lab File: BF095301.D  
 Acq: 20 May 2017 13:06

Tgt Ion: 152 Resp: 112935  
 Ion Ratio Lower Upper  
 152 100  
 151 26.9 16.8 25.2#  
 153 19.0 10.8 16.2#

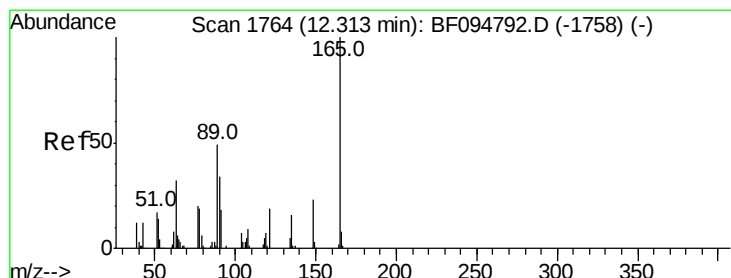
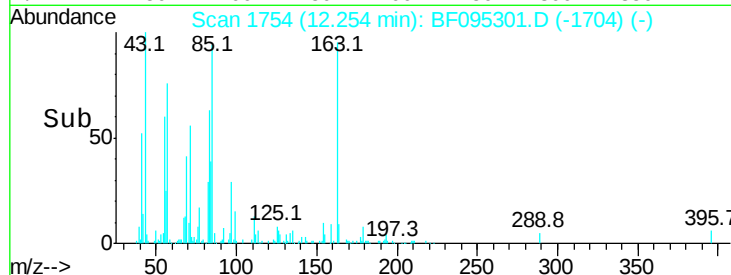
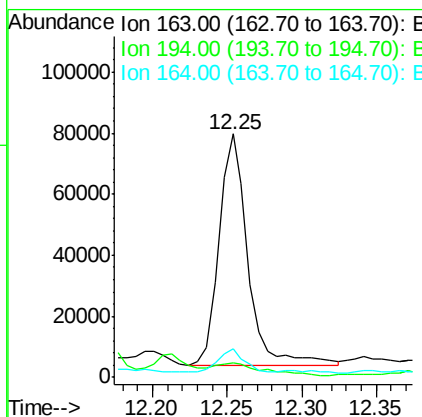
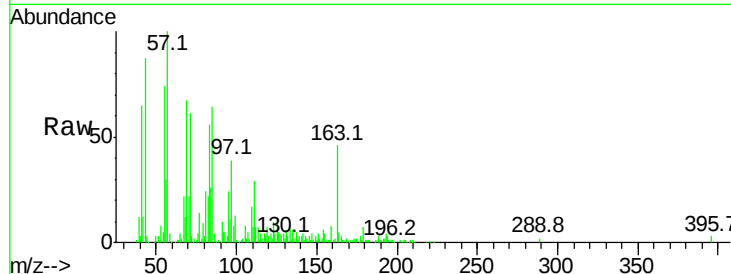




#49  
Dimethylphthalate  
Concen: 11.51 ng  
RT: 12.25 min Scan# 1754  
Delta R.T. -0.01 min  
Lab File: BF095301.D  
Acq: 20 May 2017 13:06

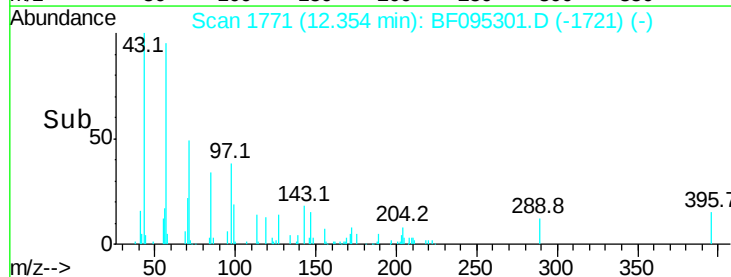
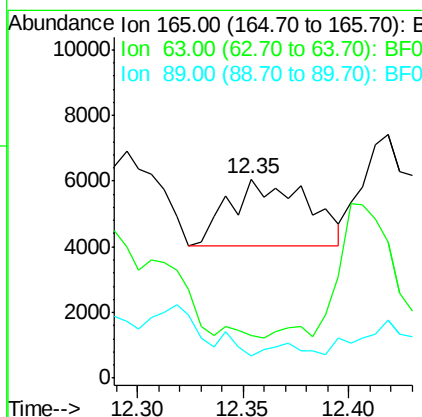
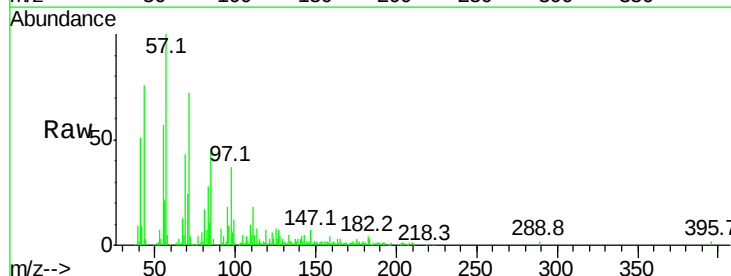
Instrument :  
BNA\_F  
ClientSampleId :

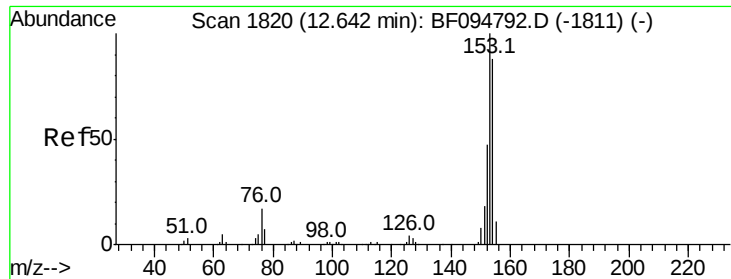
Tot Ion:163 Resp: 103476  
Ion Ratio Lower Upper  
163 100  
194 6.1 2.6 4.0#  
164 11.6 8.4 12.6



#50  
2,6-Dinitrotoluene  
Concen: 2.83 ng  
RT: 12.35 min Scan# 1771  
Delta R.T. -0.01 min  
Lab File: BF095301.D  
Acq: 20 May 2017 13:06

Tgt Ion:165 Resp: 5181  
Ion Ratio Lower Upper  
165 100  
63 21.4 34.3 51.5#  
89 11.0 37.1 55.7#





#51

Acenaphthene

Concen: 9.85 ng

RT: 12.68 min Scan# 1827

Delta R.T. 0.01 min

Lab File: BF095301.D

Acq: 20 May 2017 13:06

Instrument :

BNA\_F

ClientSampleId :

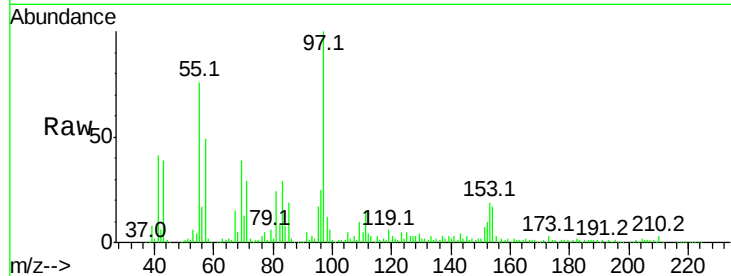
Tot Ion:154 Resp: 68601

Ion Ratio Lower Upper

154 100

153 110.6 90.5 135.7

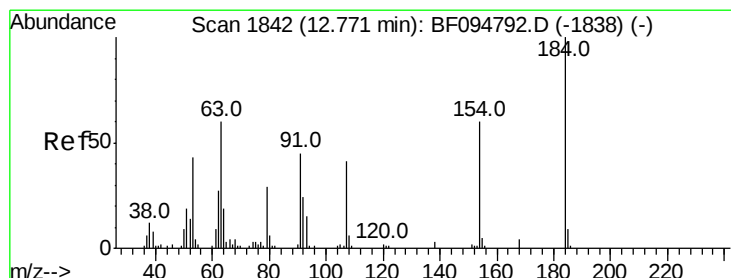
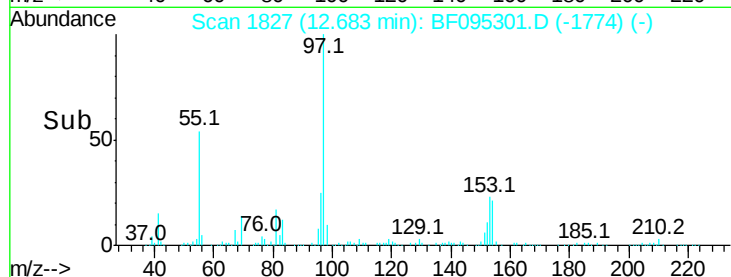
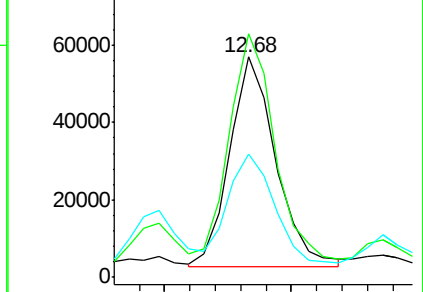
152 56.0 43.6 65.4



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: 6.73 ng

RT: 12.88 min Scan# 1860

Delta R.T. 0.03 min

Lab File: BF095301.D

Acq: 20 May 2017 13:06

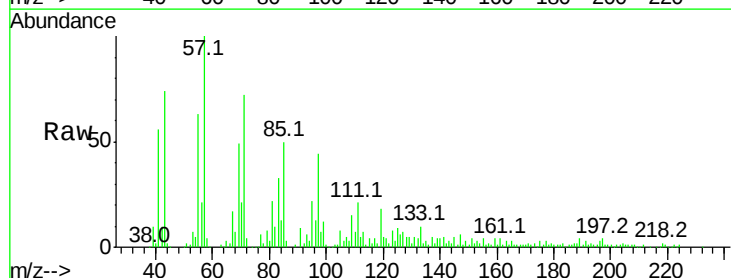
Tgt Ion:184 Resp: 524

Ion Ratio Lower Upper

184 100

63 307.6 62.7 94.1#

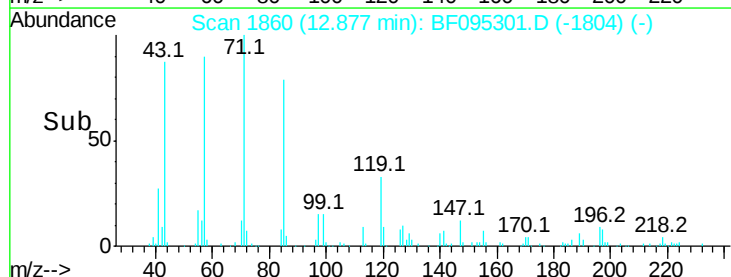
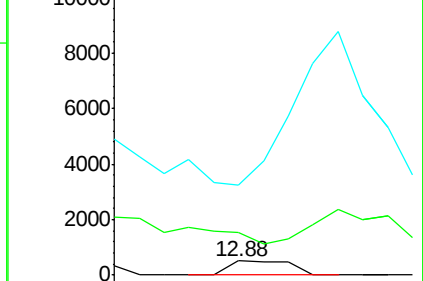
154 643.0 81.1 121.7#

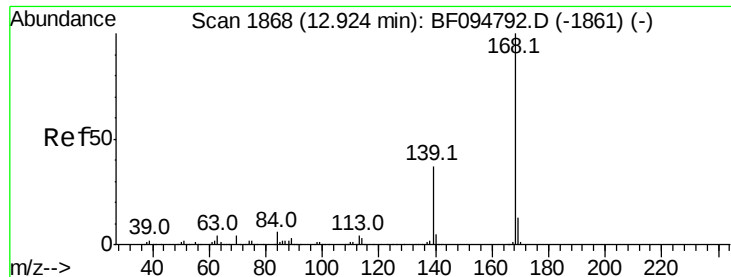


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 154.00 (153.70 to 154.70): E





#54

Dibenzofuran

Concen: 4.64 ng

RT: 12.98 min Scan# 1877

Delta R.T. 0.02 min

Lab File: BF095301.D

Acq: 20 May 2017 13:06

Instrument :

BNA\_F

ClientSampleId :

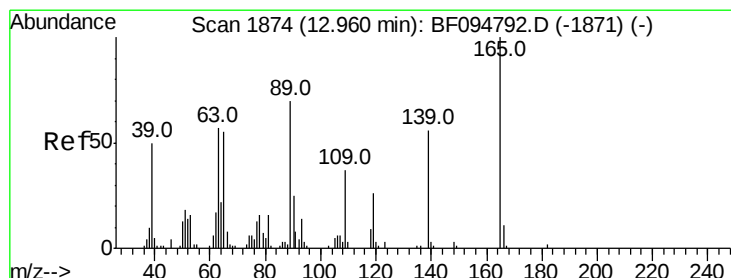
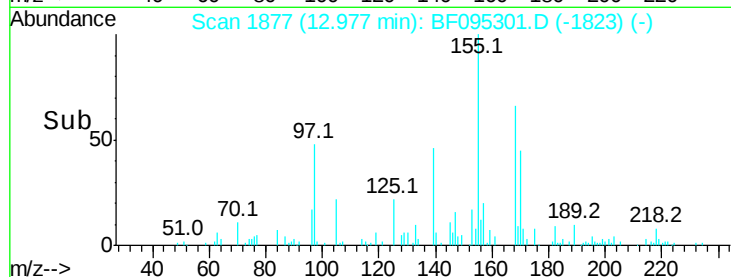
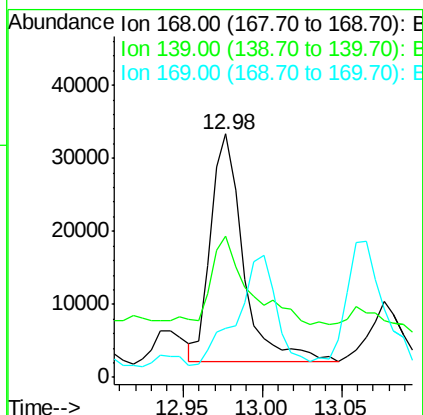
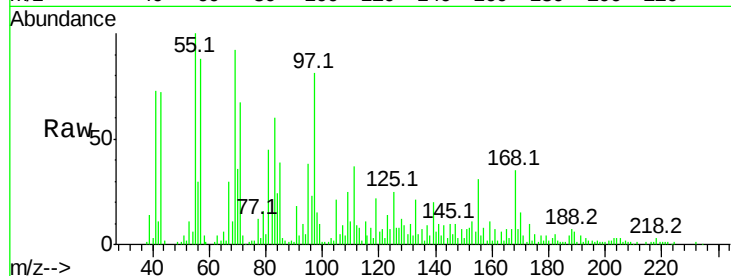
Tot Ion:168 Resp: 44732

Ion Ratio Lower Upper

168 100

139 57.9 30.6 45.8#

169 20.0 10.8 16.2#



#55

4-Nitrophenol

Concen: 6.61 ng

RT: 13.06 min Scan# 1891

Delta R.T. 0.02 min

Lab File: BF095301.D

Acq: 20 May 2017 13:06

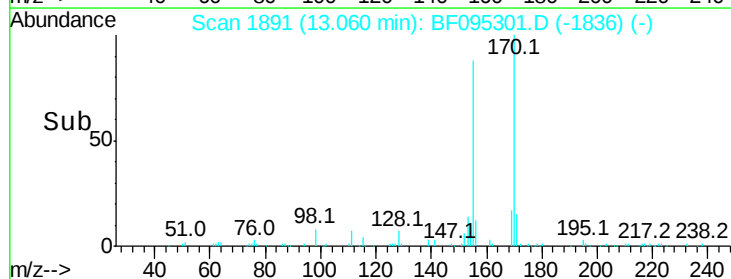
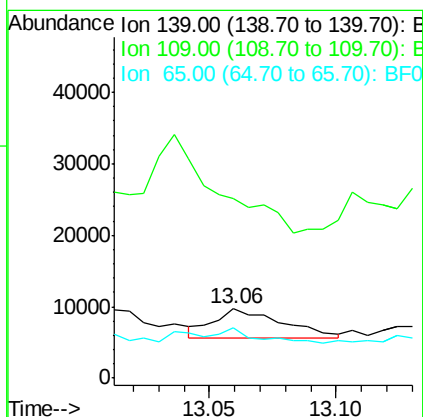
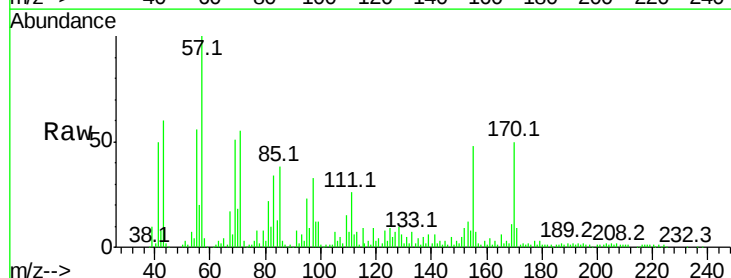
Tgt Ion:139 Resp: 7810

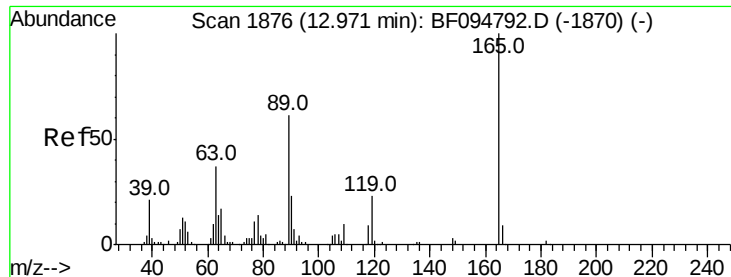
Ion Ratio Lower Upper

139 100

109 258.3 34.1 74.1#

65 73.1 31.4 71.4#

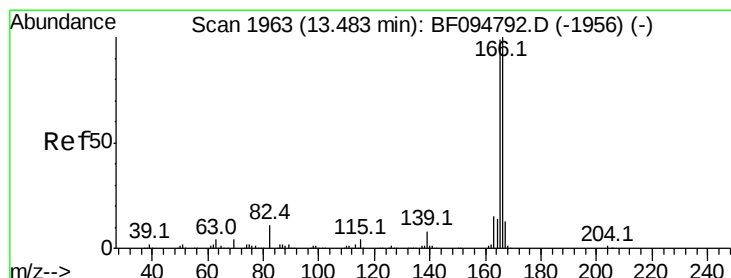
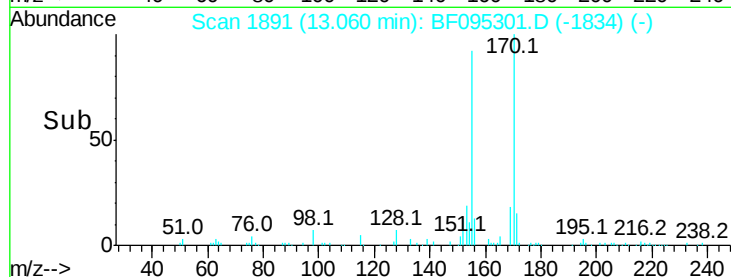
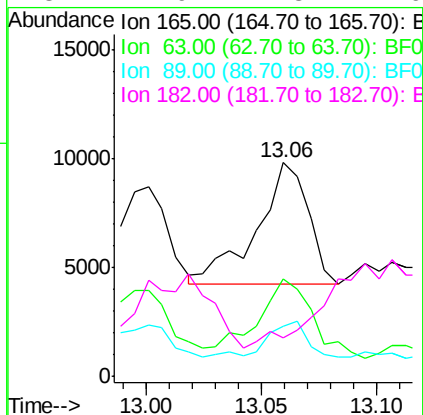
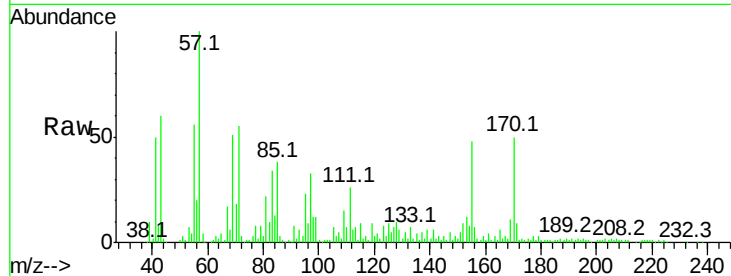




#56  
2,4-Dinitrotoluene  
Concen: 3.64 ng  
RT: 13.06 min Scan# 1891  
Delta R.T. 0.04 min  
Lab File: BF095301.D  
Acq: 20 May 2017 13:06

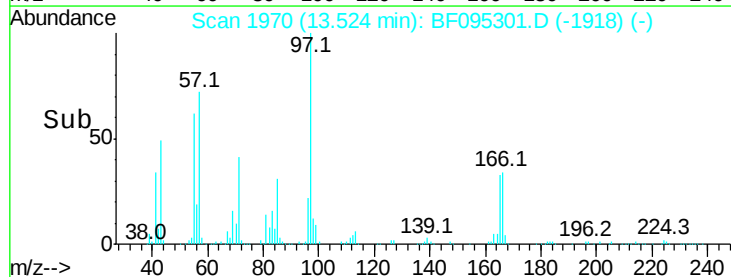
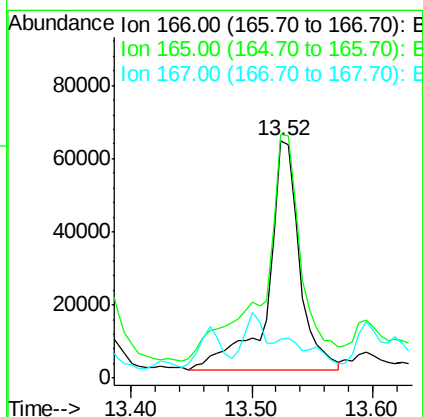
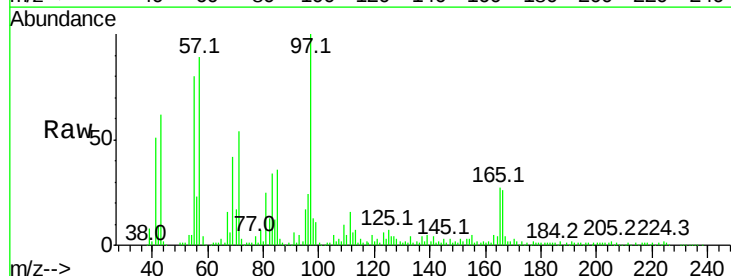
Instrument :  
BNA\_F  
ClientSampleId :

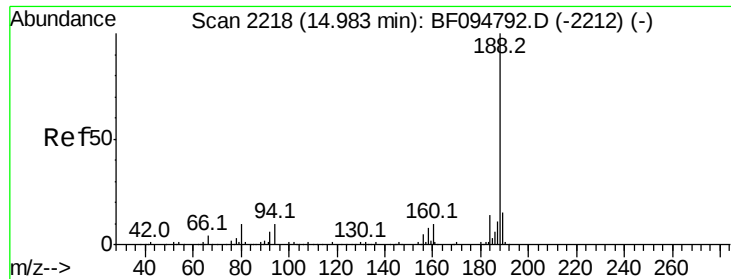
Tot Ion:165 Resp: 8577  
Ion Ratio Lower Upper  
165 100  
63 45.7 25.4 38.0#  
89 23.2 46.4 69.6#  
182 17.9 1.8 2.6#



#57  
Fluorene  
Concen: 13.51 ng  
RT: 13.52 min Scan# 1970  
Delta R.T. 0.01 min  
Lab File: BF095301.D  
Acq: 20 May 2017 13:06

Tgt Ion:166 Resp: 113197  
Ion Ratio Lower Upper  
166 100  
165 102.6 78.8 118.2  
167 16.5 10.6 16.0#

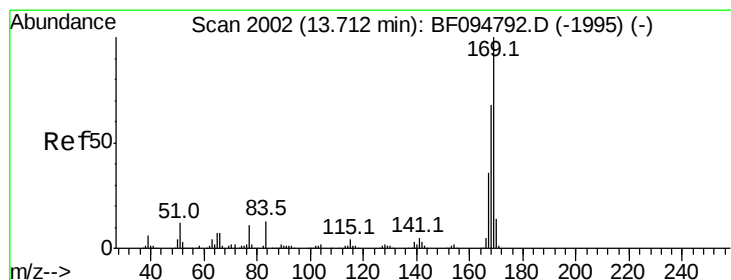
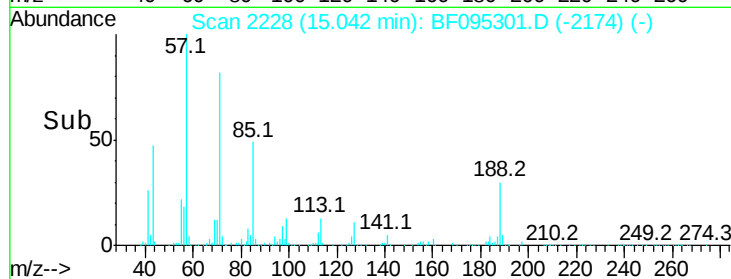
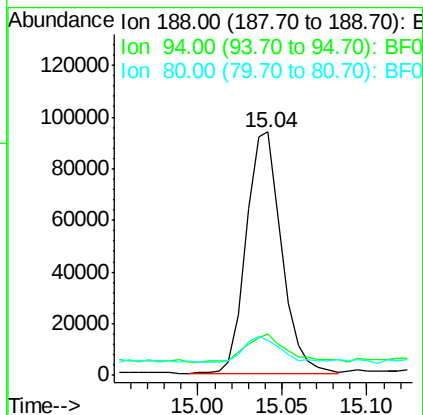
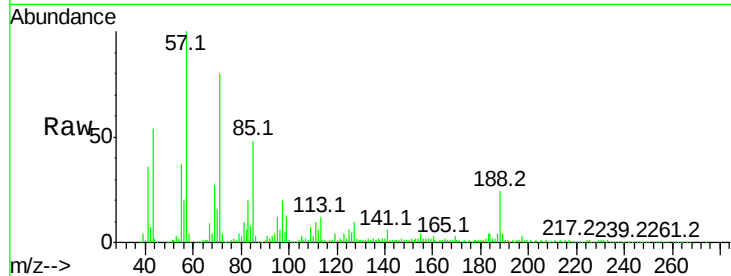




#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 15.04 min Scan# 2228  
Delta R.T. 0.02 min  
Lab File: BF095301.D  
Acq: 20 May 2017 13:06

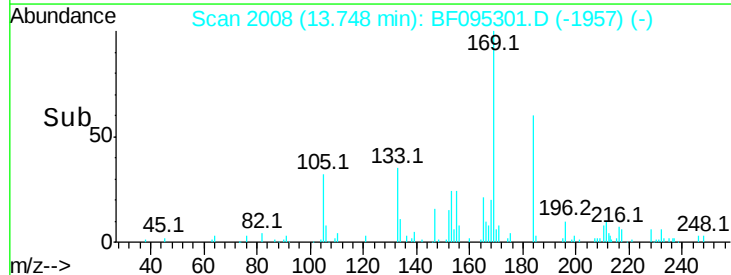
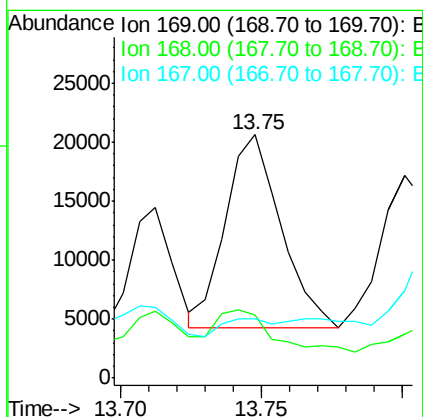
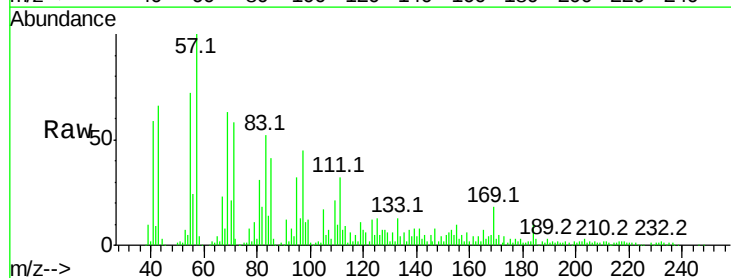
Instrument :  
BNA\_F  
ClientSampleId :

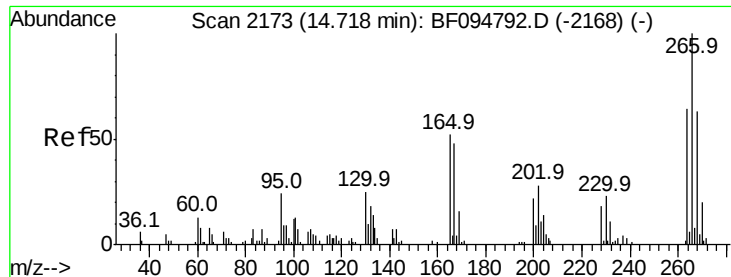
Tot Ion:188 Resp: 135108  
Ion Ratio Lower Upper  
188 100  
94 16.9 9.4 14.2#  
80 14.2 10.2 15.2



#65  
n-Nitrosodiphenylamine  
Concen: 4.52 ng  
RT: 13.75 min Scan# 2008  
Delta R.T. -0.00 min  
Lab File: BF095301.D  
Acq: 20 May 2017 13:06

Tgt Ion:169 Resp: 22172  
Ion Ratio Lower Upper  
169 100  
168 25.7 53.2 79.8#  
167 24.5 29.5 44.3#

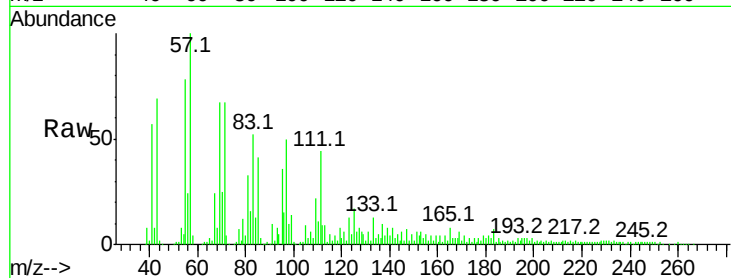




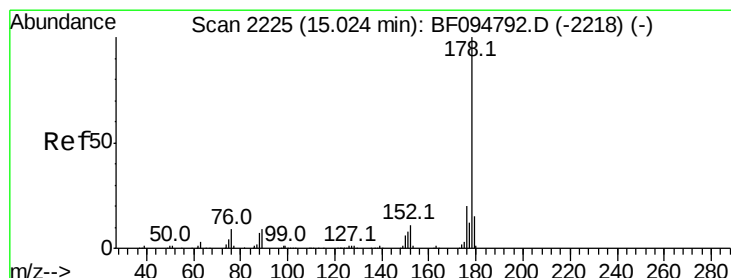
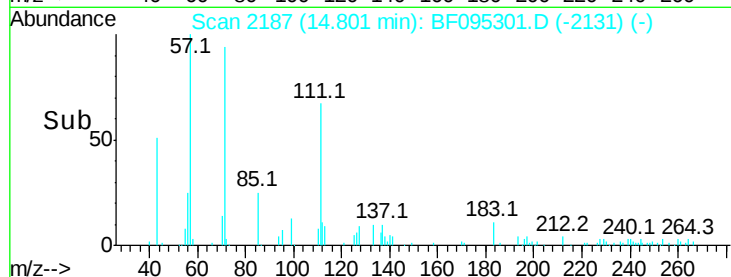
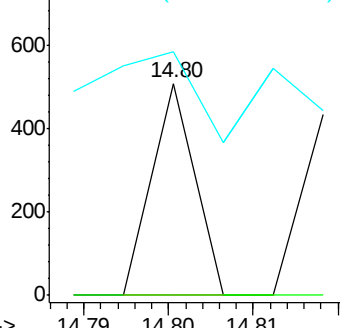
#69  
 Pentachlorophenol  
 Concen: 6.11 ng  
 RT: 14.80 min Scan# 2187  
 Delta R.T. 0.03 min  
 Lab File: BF095301.D  
 Acq: 20 May 2017 13:06

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 266     | 100   |       |       |
| 268     | 0.0   | 51.1  | 76.7# |
| 264     | 114.8 | 51.7  | 77.5# |

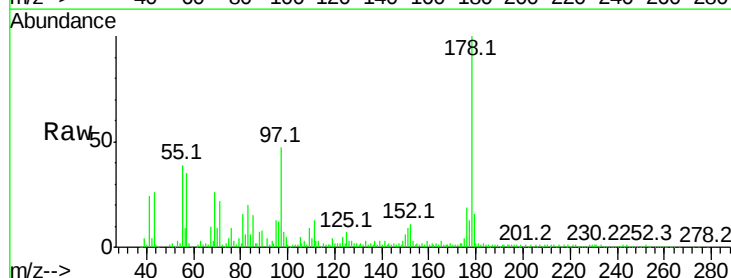


Abundance Ion 265.70 (265.40 to 266.40): E  
 Ion 268.00 (267.70 to 268.70): E  
 Ion 264.00 (263.70 to 264.70): E

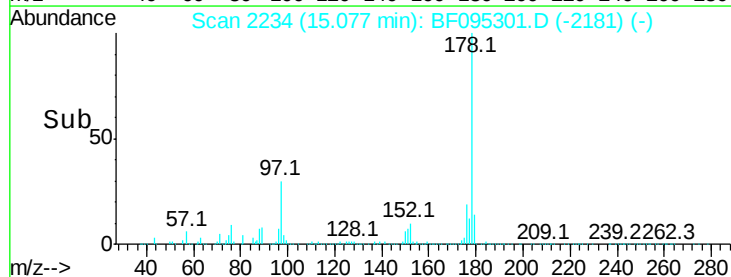
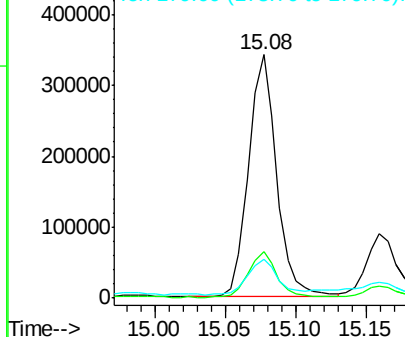


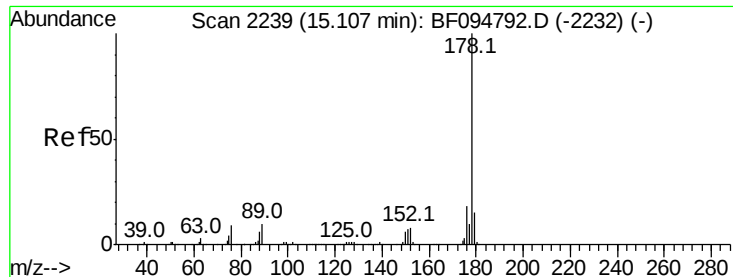
#70  
 Phenanthrene  
 Concen: 61.51 ng  
 RT: 15.08 min Scan# 2234  
 Delta R.T. 0.01 min  
 Lab File: BF095301.D  
 Acq: 20 May 2017 13:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.0  | 16.2  | 24.4  |
| 179     | 15.9  | 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





#71

Anthracene

Concen: 60.22 ng

RT: 15.08 min Scan# 2234

Delta R.T. -0.06 min

Lab File: BF095301.D

Acq: 20 May 2017 13:06

Instrument :

BNA\_F

ClientSampleId :

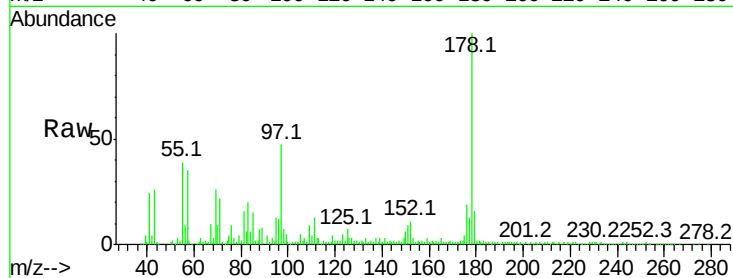
Tot Ion:178 Resp: 477502

Ion Ratio Lower Upper

178 100

176 19.0 15.8 23.8

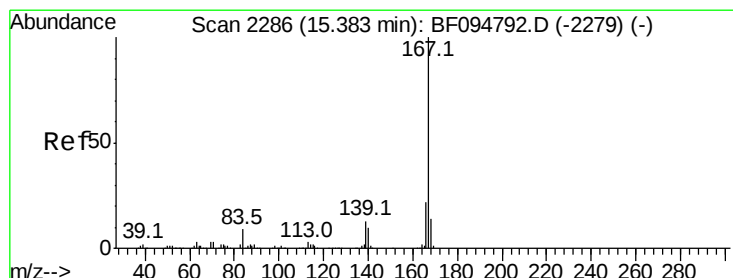
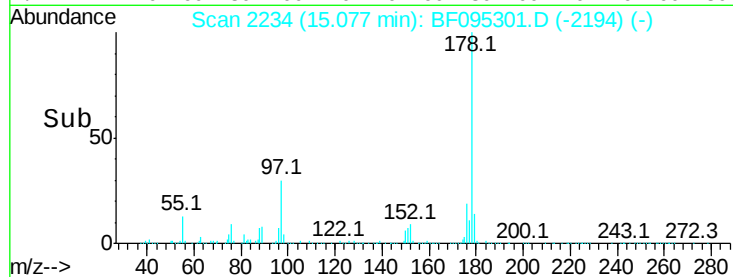
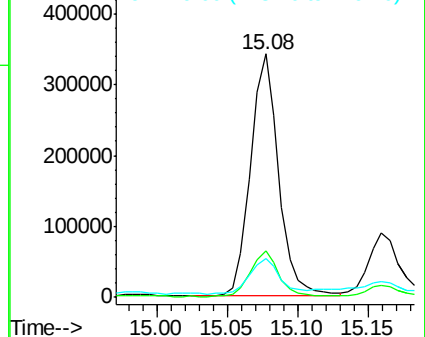
179 15.9 12.7 19.1



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



#72

Carbazole

Concen: 3.26 ng

RT: 15.45 min Scan# 2297

Delta R.T. 0.02 min

Lab File: BF095301.D

Acq: 20 May 2017 13:06

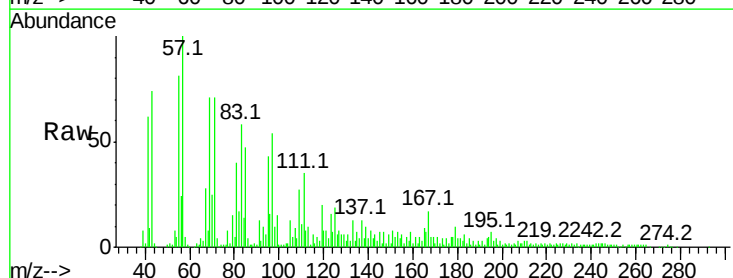
Tgt Ion:167 Resp: 23531

Ion Ratio Lower Upper

167 100

166 38.9 18.1 27.1#

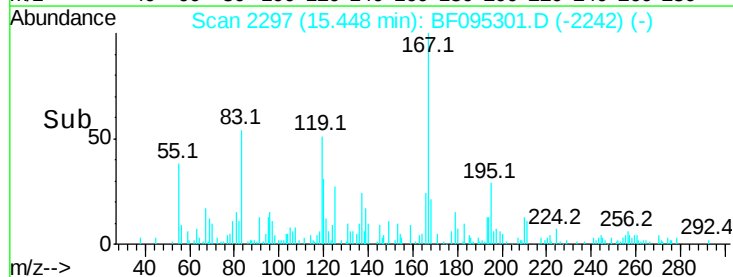
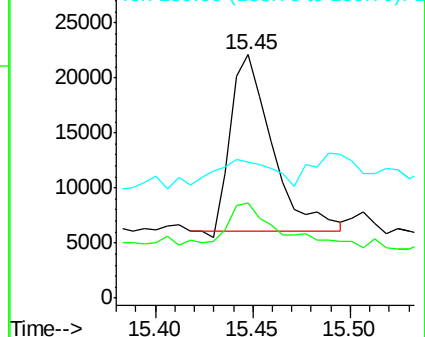
139 56.1 11.7 17.5#

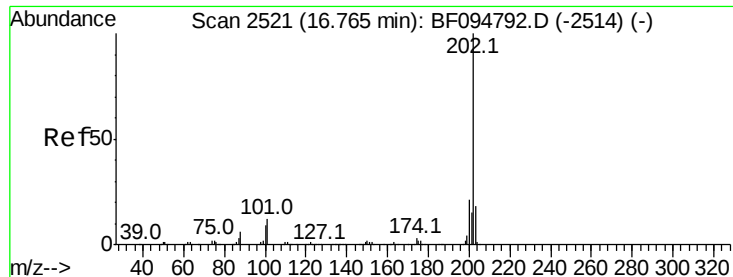


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 40.54 ng

RT: 16.82 min Scan# 2531

Delta R.T. 0.02 min

Lab File: BF095301.D

Acq: 20 May 2017 13:06

Instrument :

BNA\_F

ClientSampleId :

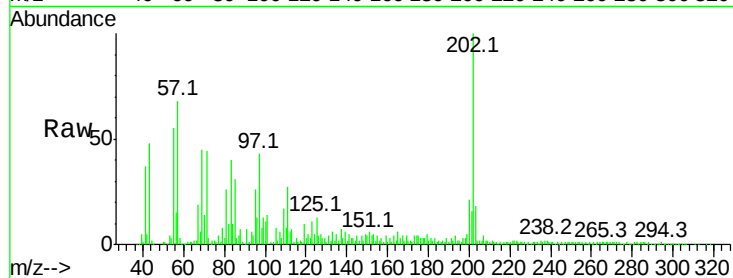
Tot Ion:202 Resp: 322811

Ion Ratio Lower Upper

202 100

101 13.8 0.0 33.2

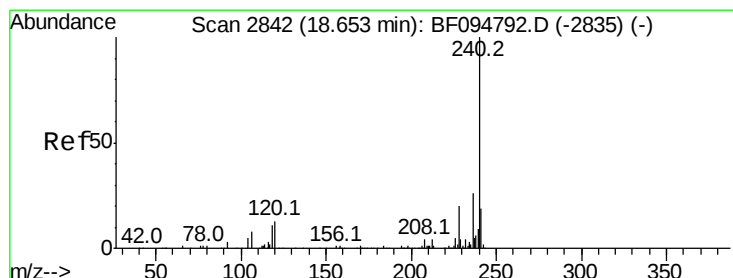
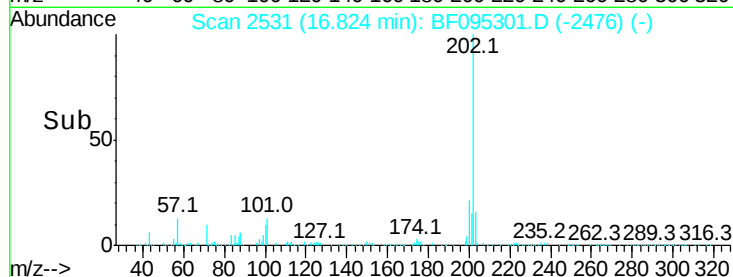
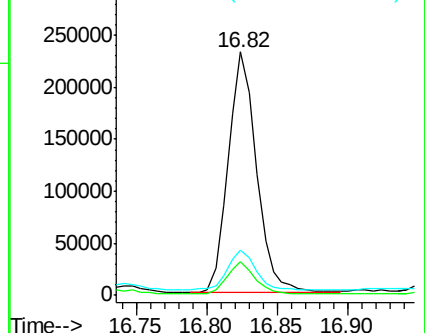
203 18.4 0.0 38.1



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: 20.00 ng

RT: 18.72 min Scan# 2853

Delta R.T. 0.02 min

Lab File: BF095301.D

Acq: 20 May 2017 13:06

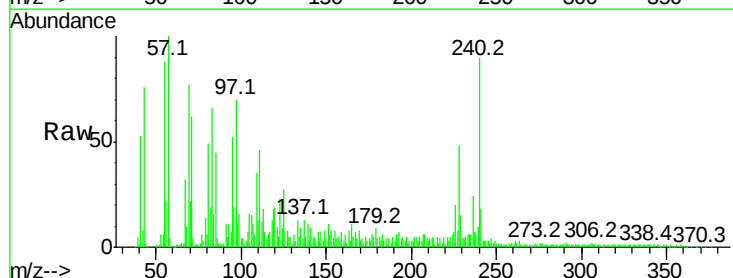
Tgt Ion:240 Resp: 144198

Ion Ratio Lower Upper

240 100

120 21.1 5.8 8.8#

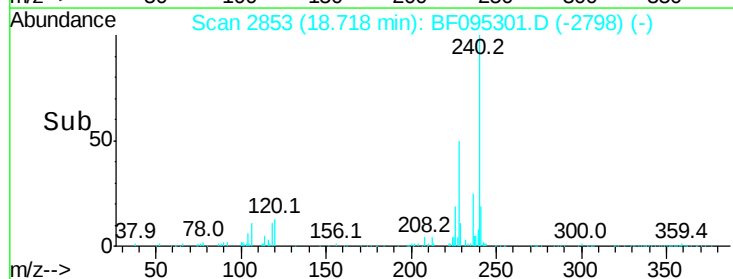
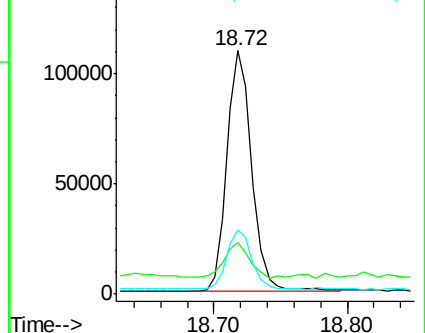
236 26.7 20.5 30.7

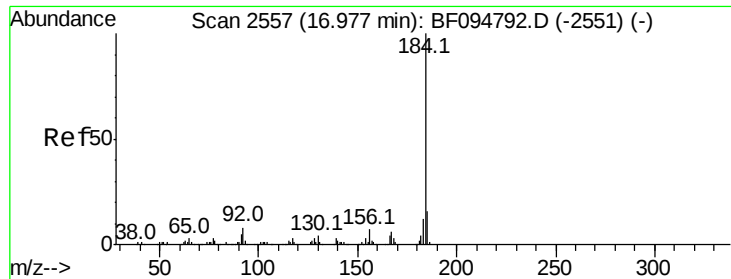


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

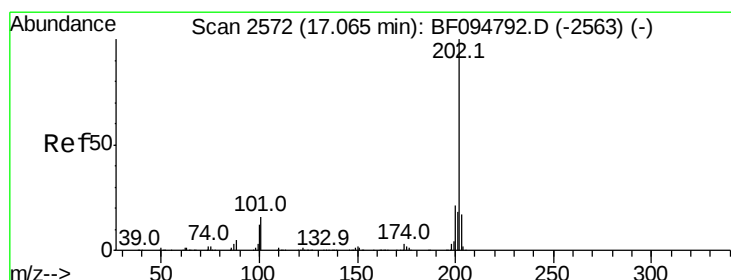
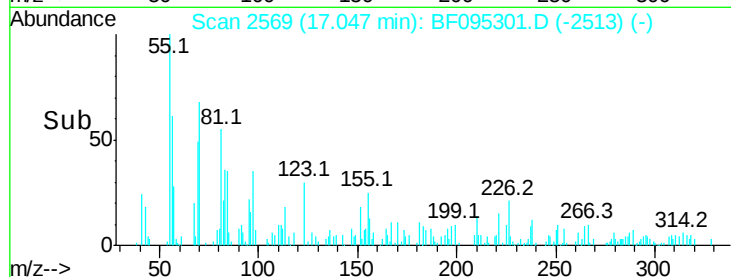
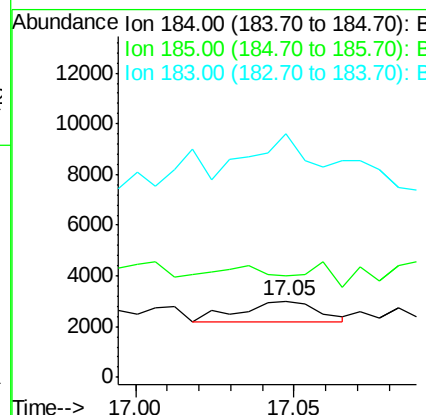
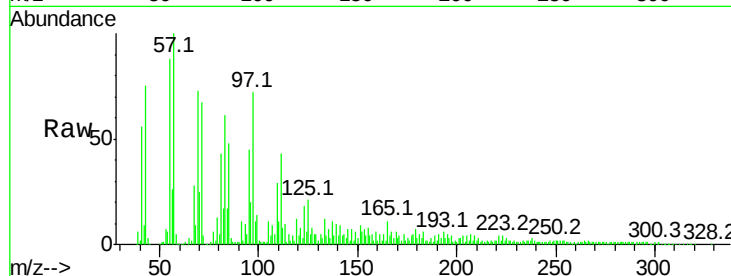




#76  
Benzidine  
Concen: 6.91 ng  
RT: 17.05 min Scan# 2569  
Delta R.T. 0.03 min  
Lab File: BF095301.D  
Acq: 20 May 2017 13:06

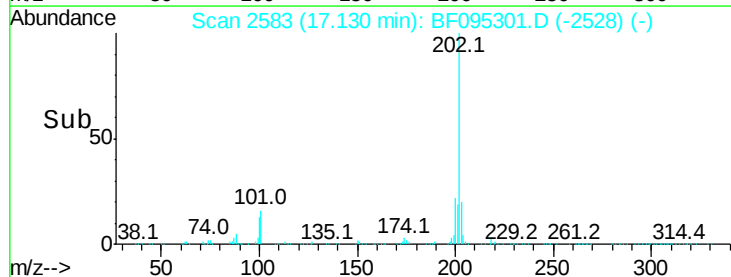
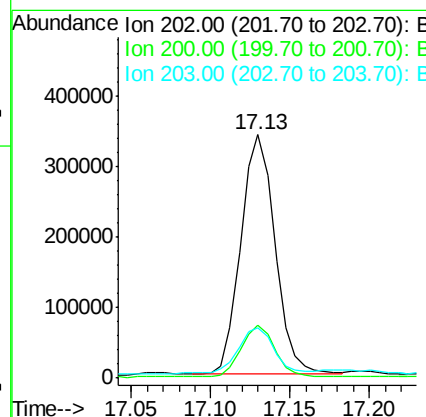
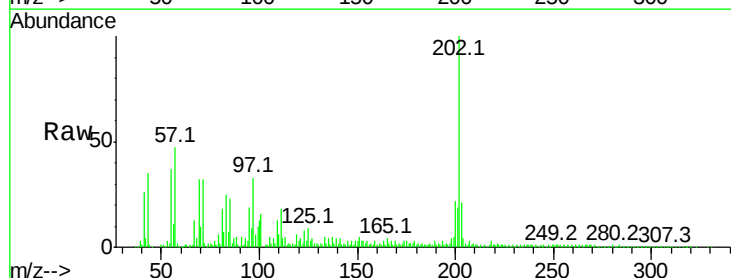
Instrument :  
BNA\_F  
ClientSampleId :

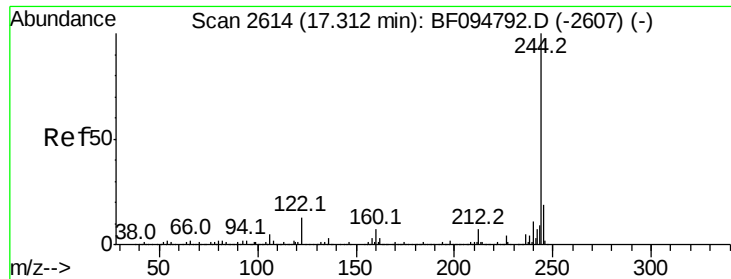
Tot Ion:184 Resp: 1449  
Ion Ratio Lower Upper  
184 100  
185 132.3 15.5 23.3#  
183 318.8 9.8 14.6#



#77  
Pyrene  
Concen: 47.29 ng  
RT: 17.13 min Scan# 2583  
Delta R.T. 0.02 min  
Lab File: BF095301.D  
Acq: 20 May 2017 13:06

Tgt Ion:202 Resp: 509960  
Ion Ratio Lower Upper  
202 100  
200 21.6 17.6 26.4  
203 20.8 14.4 21.6

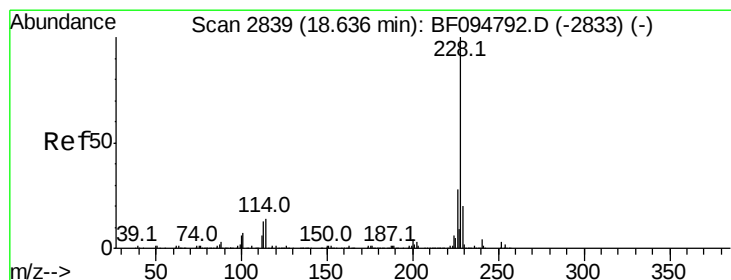
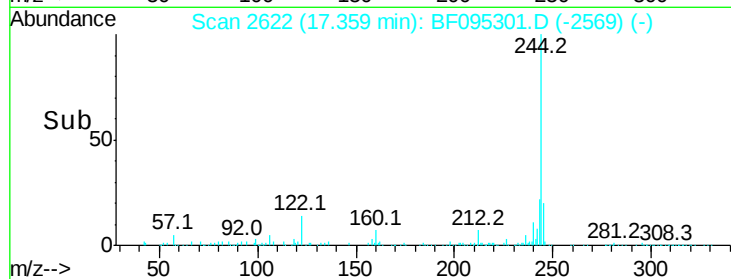
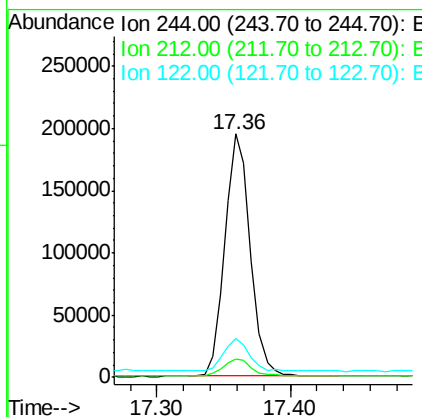
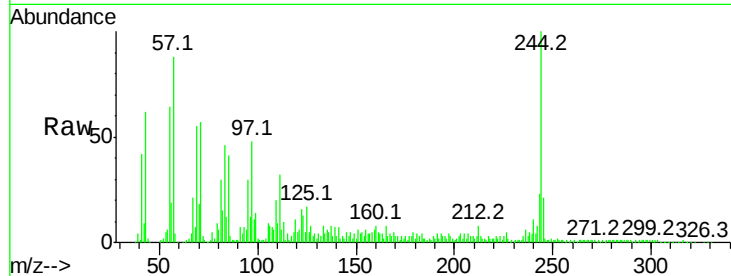




#78  
 Terphenyl-d14  
 Concen: 39.76 ng  
 RT: 17.36 min Scan# 2622  
 Delta R.T. 0.01 min  
 Lab File: BF095301.D  
 Acq: 20 May 2017 13:06

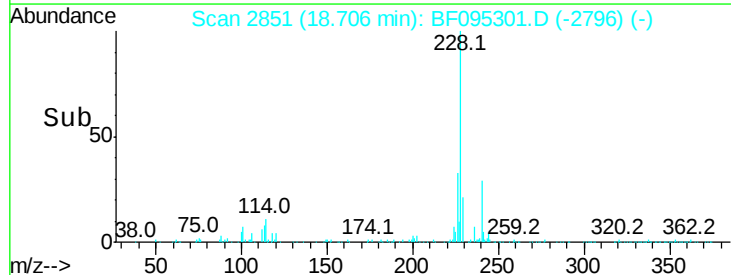
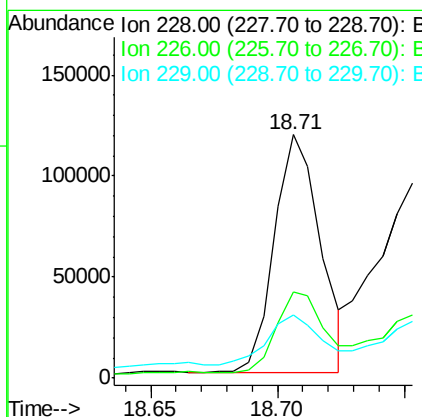
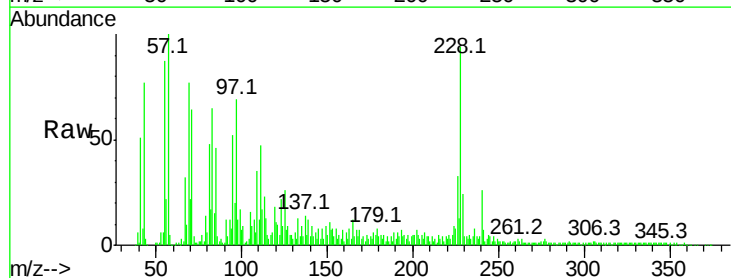
Instrument :  
 BNA\_F  
 ClientSampleId :

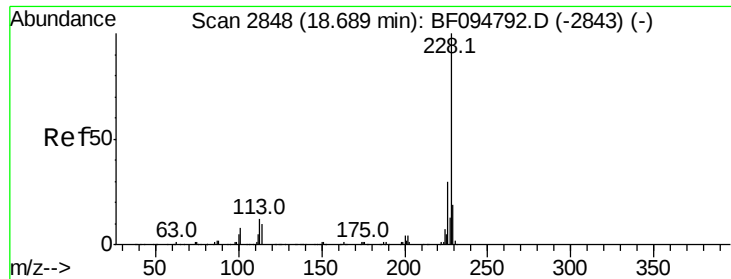
Tot Ion:244 Resp: 260309  
 Ion Ratio Lower Upper  
 244 100  
 212 7.8 6.0 9.0  
 122 16.0 10.3 15.5#



#80  
 Benzo(a)anthracene  
 Concen: 17.78 ng  
 RT: 18.71 min Scan# 2851  
 Delta R.T. 0.02 min  
 Lab File: BF095301.D  
 Acq: 20 May 2017 13:06

Tgt Ion:228 Resp: 149238  
 Ion Ratio Lower Upper  
 228 100  
 226 35.4 22.6 33.8#  
 229 25.8 16.3 24.5#





#82

Chrysene

Concen: 18.18 ng

RT: 18.75 min Scan# 2859

Delta R.T. 0.02 min

Lab File: BF095301.D

Acq: 20 May 2017 13:06

Instrument :

BNA\_F

ClientSampleId :

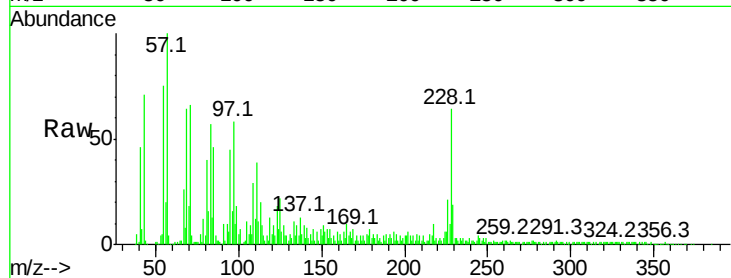
Tot Ion:228 Resp: 147510

Ion Ratio Lower Upper

228 100

226 32.2 24.9 37.3

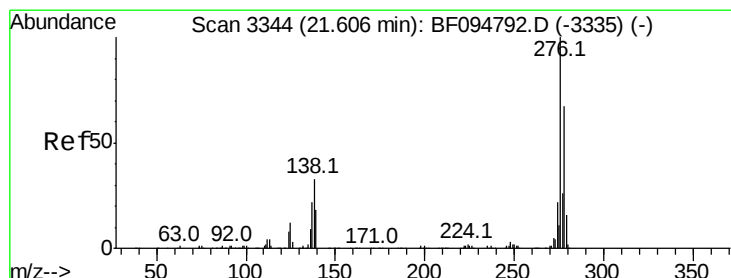
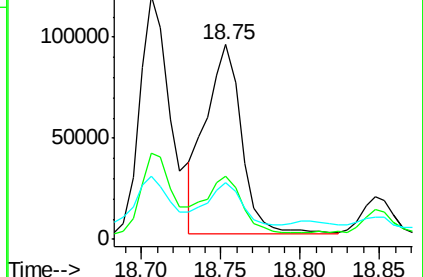
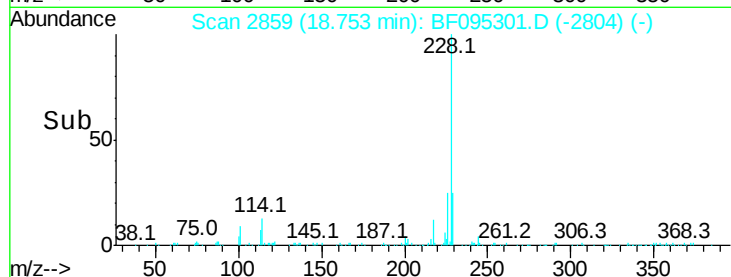
229 29.0 15.8 23.6#



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



#85

Indeno(1,2,3-cd)pyrene

Concen: 22.47 ng

RT: 21.72 min Scan# 3363

Delta R.T. 0.02 min

Lab File: BF095301.D

Acq: 20 May 2017 13:06

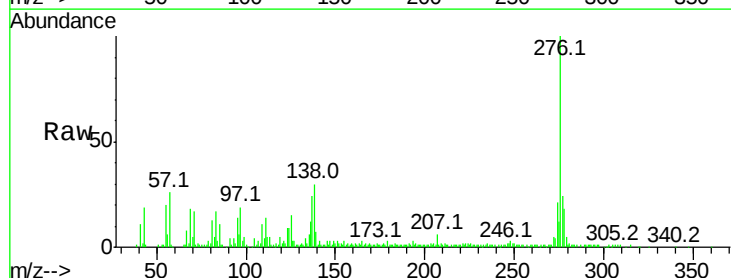
Tgt Ion:276 Resp: 148105

Ion Ratio Lower Upper

276 100

138 28.4 27.8 41.6

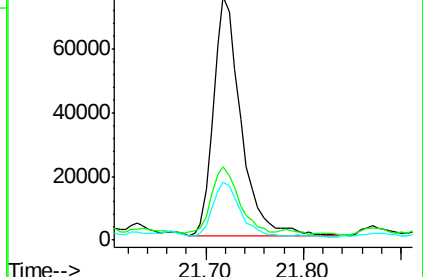
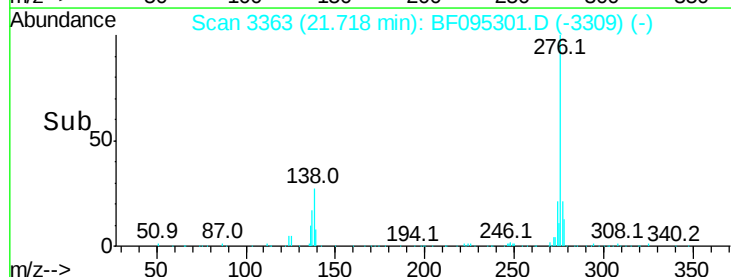
277 21.5 20.2 30.4

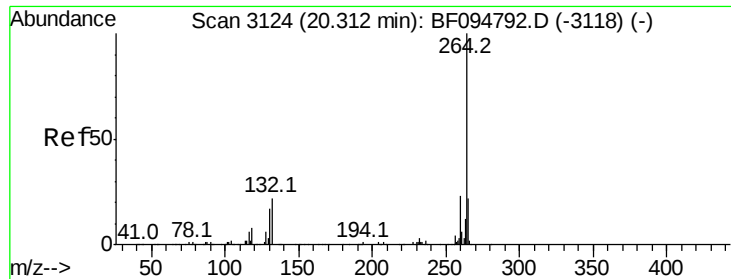


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#86

Pervlene-d12

Concen: 20.00 ng

RT: 20.39 min Scan# 3137

Delta R.T. 0.02 min

Lab File: BF095301.D

Acq: 20 May 2017 13:06

Instrument :

BNA\_F

ClientSampled :

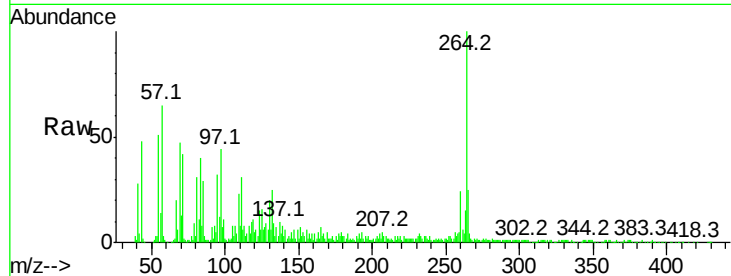
Tot Ion:264 Resp: 124219

Ion Ratio Lower Upper

264 100

260 24.1 19.5 29.3

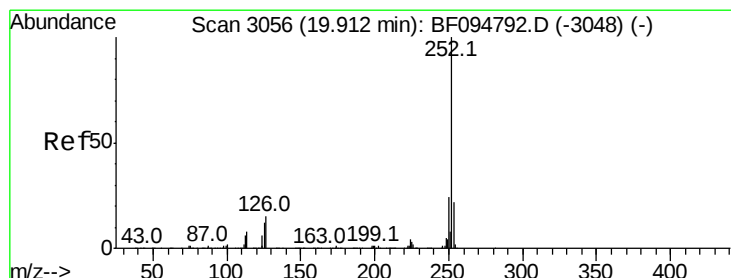
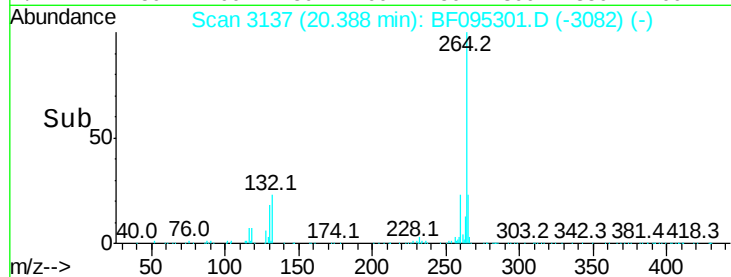
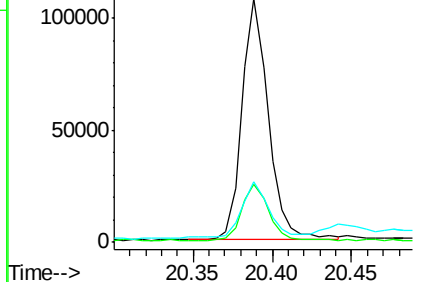
265 24.9 17.2 25.8



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: 37.19 ng

RT: 19.98 min Scan# 3068

Delta R.T. 0.02 min

Lab File: BF095301.D

Acq: 20 May 2017 13:06

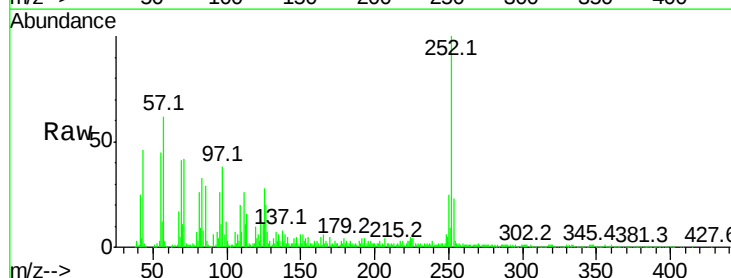
Tgt Ion:252 Resp: 285458

Ion Ratio Lower Upper

252 100

253 22.8 18.1 27.1

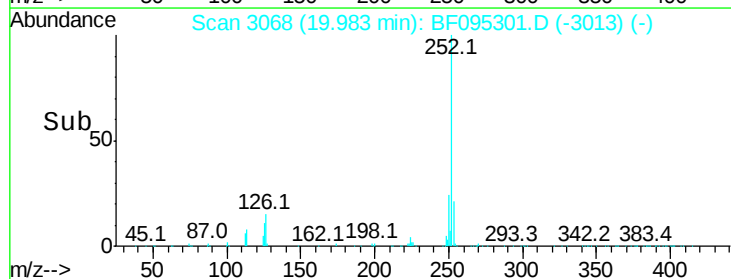
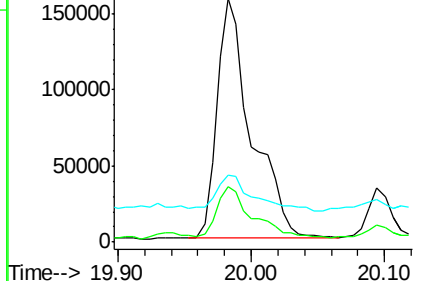
125 27.6 9.8 14.8#

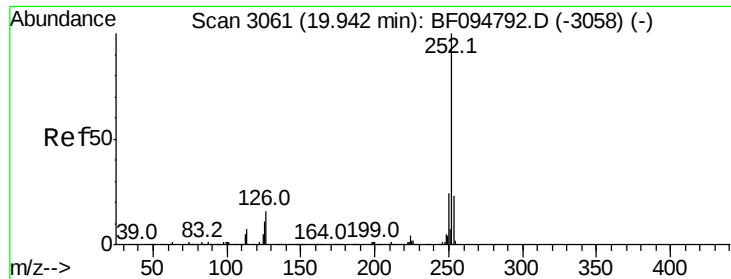


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

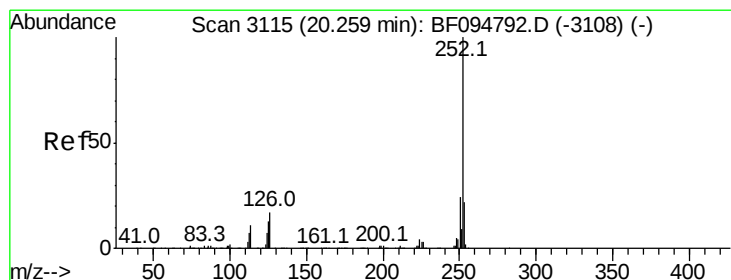
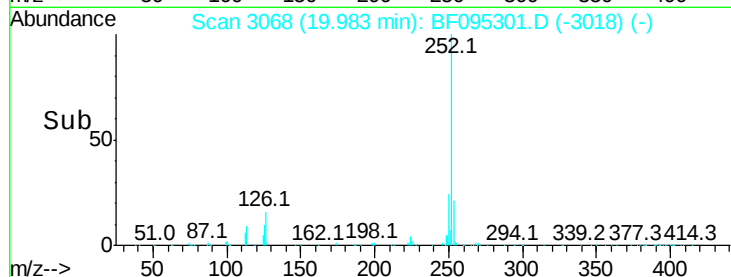
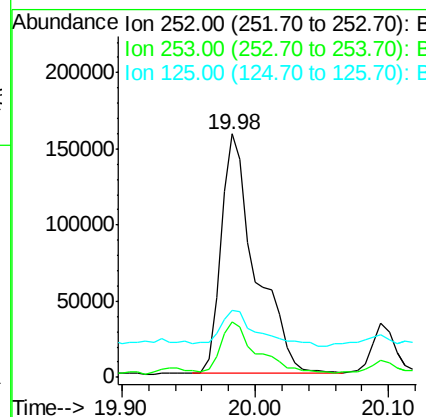
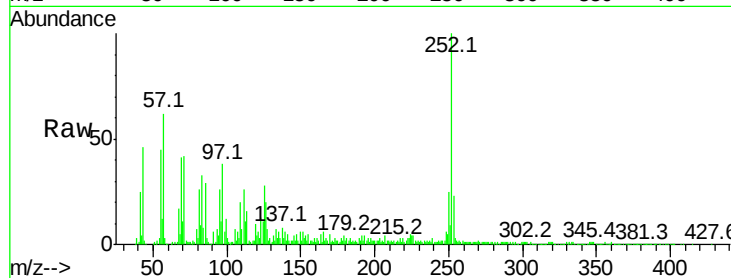




#88  
Benzo(k)fluoranthene  
Concen: 38.55 ng  
RT: 19.98 min Scan# 3068  
Delta R.T. -0.01 min  
Lab File: BF095301.D  
Acq: 20 May 2017 13:06

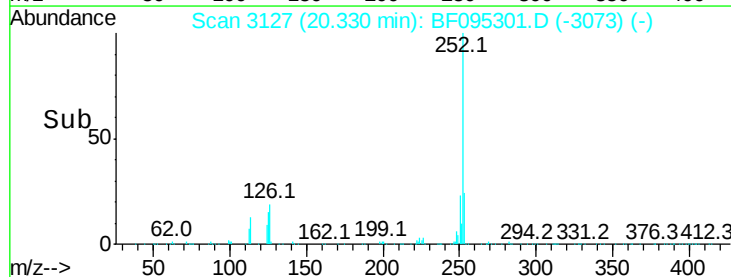
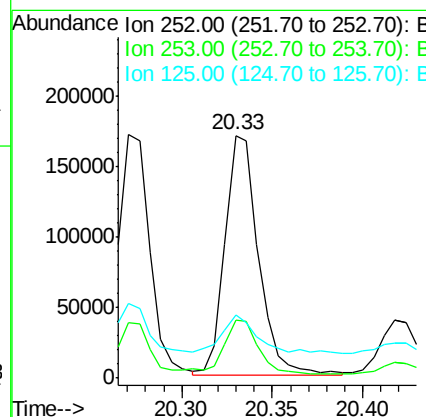
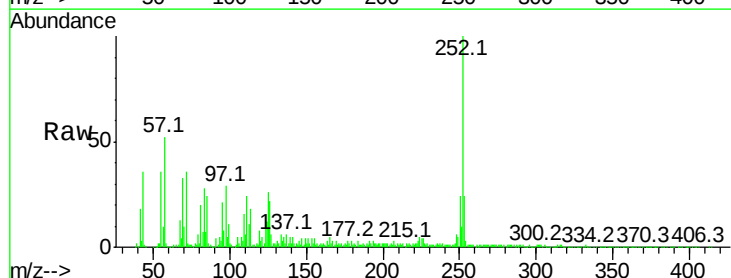
Instrument :  
BNA\_F  
ClientSampleId :

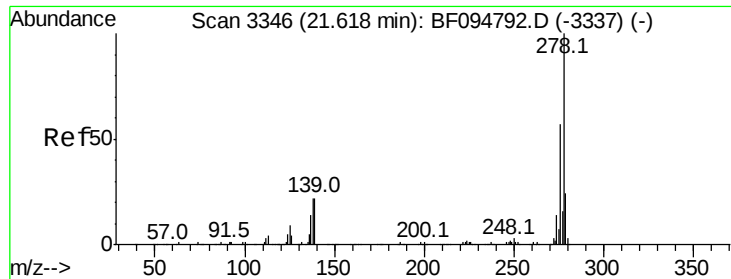
Tot Ion:252 Resp: 285458  
Ion Ratio Lower Upper  
252 100  
253 22.8 18.4 27.6  
125 27.6 13.1 19.7#



#89  
Benzo(a)pyrene  
Concen: 30.80 ng  
RT: 20.33 min Scan# 3127  
Delta R.T. 0.02 min  
Lab File: BF095301.D  
Acq: 20 May 2017 13:06

Tgt Ion:252 Resp: 218158  
Ion Ratio Lower Upper  
252 100  
253 24.2 17.5 26.3  
125 26.0 11.0 16.4#

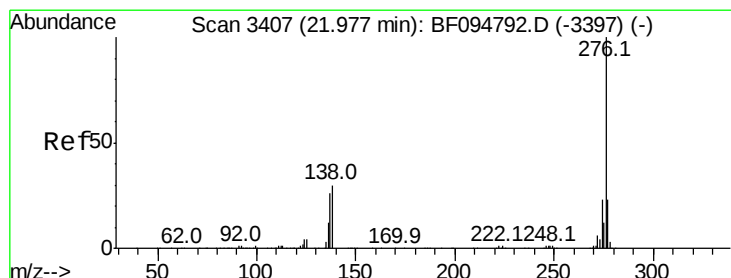
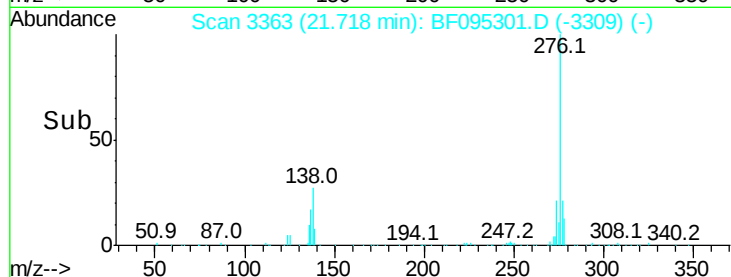
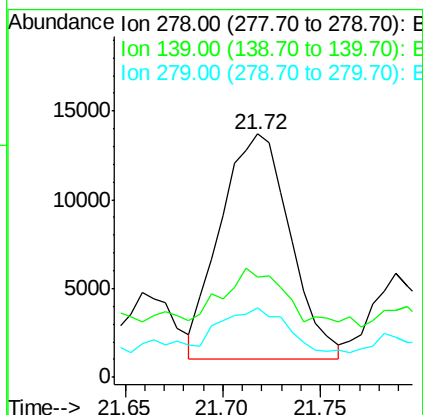
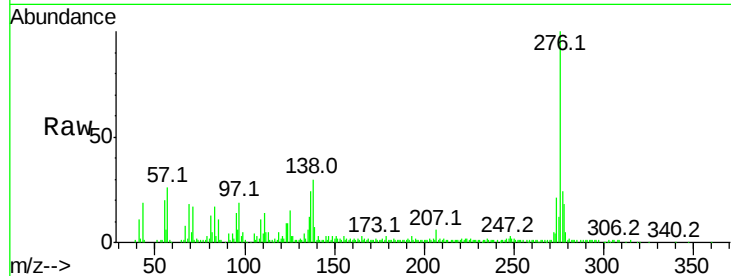




#90  
Dibenzo(a,h)anthracene  
Concen: 5.36 ng  
RT: 21.72 min Scan# 3363  
Delta R.T. 0.02 min  
Lab File: BF095301.D  
Acq: 20 May 2017 13:06

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:278 Resp: 31325  
Ion Ratio Lower Upper  
278 100  
139 41.1 16.6 24.8#  
279 28.7 19.3 28.9



#91  
Benzo(g,h,i)perylene  
Concen: 37.97 ng  
RT: 22.11 min Scan# 3429  
Delta R.T. 0.02 min  
Lab File: BF095301.D  
Acq: 20 May 2017 13:06

Tgt Ion:276 Resp: 217959  
Ion Ratio Lower Upper  
276 100  
277 24.9 18.6 28.0  
138 30.4 25.4 38.0

