

Data Path : Z:\HPCHEM1\BNA F\DATA\BF101715\  
 Data File : BF082345.D  
 Acq On : 17 Oct 2015 1:33  
 Operator : UM/IZ  
 Sample : G4009-01RE 5X  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 KW-1

Quant Time: Oct 17 04:33:02 2015  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF101015.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Oct 17 04:30:36 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.12  | 152  | 42498    | 20.00 | ng    | 0.17     |
| 21) Naphthalene-d8        | 8.25  | 136  | 263171   | 20.00 | ng    | 0.01     |
| 38) Acenaphthene-d10      | 9.99  | 164  | 148492   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.47 | 188  | 301215   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 14.14 | 240  | 260235   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.65 | 264  | 241160   | 20.00 | ng    | -0.02    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 5) 2-Fluorophenol           | 5.58  | 112  | 65412    | 31.06 | ng    | 0.01     |
| 7) Phenol-d6                | 6.61  | 99   | 90822    | 33.14 | ng    | 0.01     |
| 23) Nitrobenzene-d5         | 7.53  | 82   | 55218    | 14.09 | ng    | 0.01     |
| 41) 2,4,6-Tribromophenol    | 10.79 | 330  | 29917    | 21.48 | ng    | 0.01     |
| 44) 2-Fluorobiphenyl        | 9.31  | 172  | 146987   | 16.42 | ng    | 0.01     |
| 78) Terphenyl-d14           | 13.06 | 244  | 153184   | 15.60 | ng    | 0.01     |

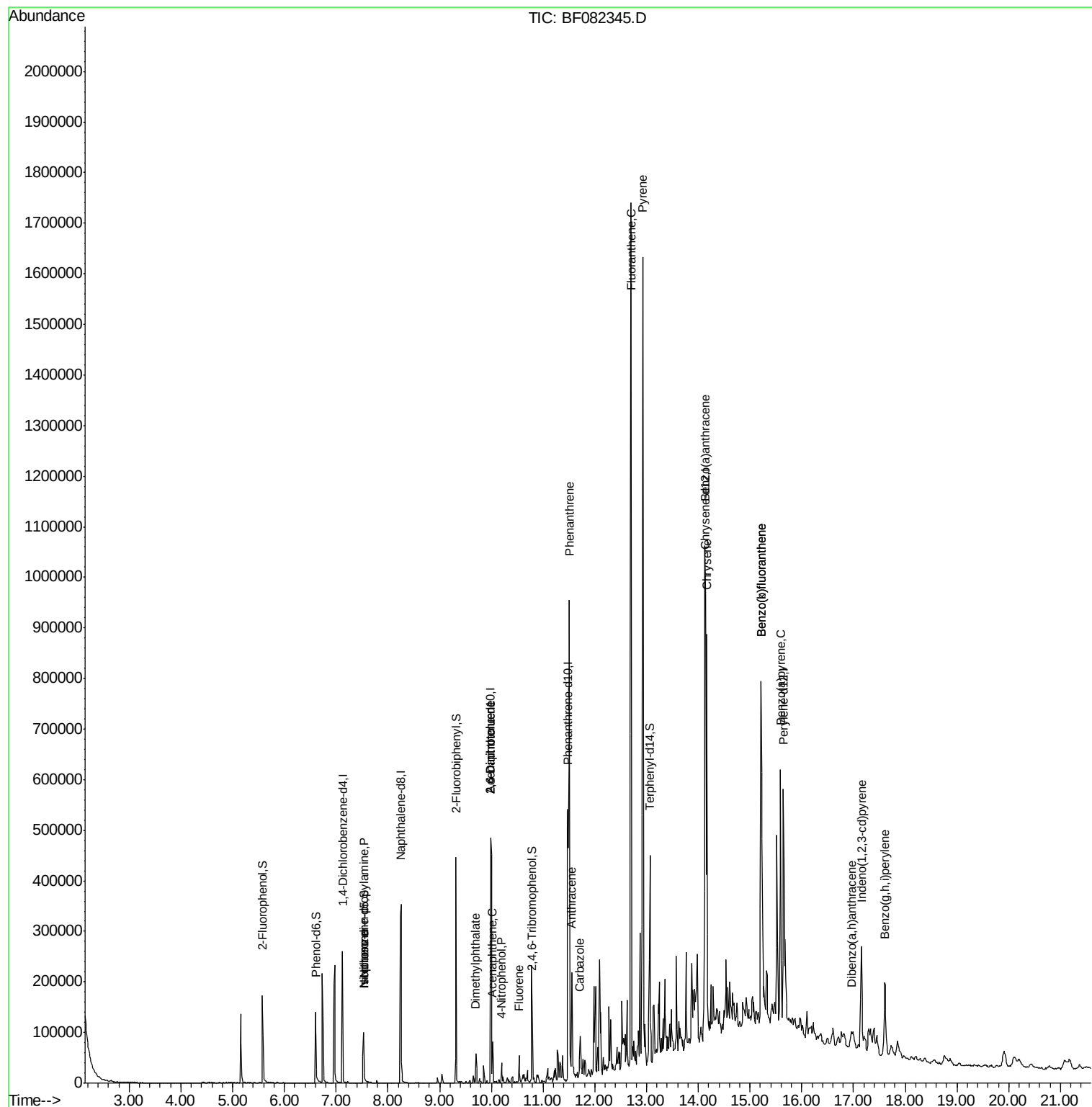
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 19) n-Nitroso-di-n-propylamine | 7.53  | 70   | 6172     | 3.21  | ng    | # 75   |
| 25) Isophorone                 | 7.53  | 82   | 55217    | 6.98  | ng    | # 66   |
| 49) Dimethylphthalate          | 9.70  | 163  | 29853    | 2.85  | ng    | 99     |
| 50) 2,6-Dinitrotoluene         | 9.99  | 165  | 18623    | 8.44  | ng    | # 30   |
| 51) Acenaphthene               | 10.02 | 154  | 19431    | 2.33  | ng    | 96     |
| 55) 4-Nitrophenol              | 10.19 | 139  | 6750     | 5.02  | ng    | # 11   |
| 56) 2,4-Dinitrotoluene         | 9.99  | 165  | 18832    | 6.83  | ng    | # 21   |
| 57) Fluorene                   | 10.54 | 166  | 18857    | 2.01  | ng    | 95     |
| 70) Phenanthrene               | 11.51 | 178  | 490541   | 33.22 | ng    | 98     |
| 71) Anthracene                 | 11.55 | 178  | 102295   | 6.72  | ng    | 98     |
| 72) Carbazole                  | 11.71 | 167  | 49296    | 3.55  | ng    | 99     |
| 74) Fluoranthene               | 12.70 | 202  | 764399   | 48.20 | ng    | 99     |
| 77) Pvrene                     | 12.93 | 202  | 669914   | 43.38 | ng    | 98     |
| 80) Benzo(a)anthracene         | 14.13 | 228  | 397285   | 29.34 | ng    | 98     |
| 82) Chrysene                   | 14.16 | 228  | 278793   | 19.54 | ng    | 99     |
| 85) Indeno(1,2,3-cd)pyrene     | 17.16 | 276  | 152490   | 13.45 | ng    | 94     |
| 87) Benzo(b)fluoranthene       | 15.21 | 252  | 547936   | 37.35 | ng    | 100    |
| 88) Benzo(k)fluoranthene       | 15.21 | 252  | 547936   | 44.43 | ng    | # 98   |
| 89) Benzo(a)pvrene             | 15.59 | 252  | 265962   | 21.09 | ng    | 98     |
| 90) Dibenzo(a,h)anthracene     | 16.96 | 278  | 33542    | 3.25  | ng    | 95     |
| 91) Benzo(g,h,i)perylene       | 17.61 | 276  | 136568   | 13.60 | ng    | 97     |

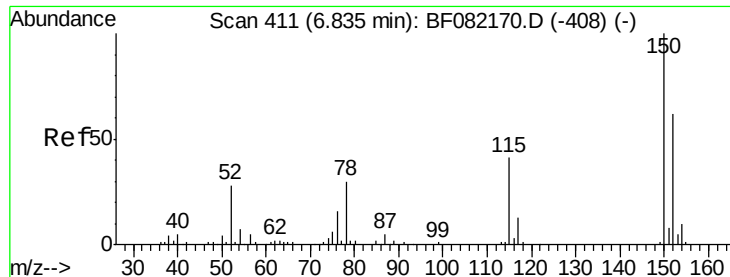
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Oct 17 04:30:36 2015  
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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.12 min Scan# 436

Delta R.T. 0.17 min

Lab File: BF082345.D

Acq: 17 Oct 2015 1:33

Instrument :

BNA\_F

ClientSampleId :

KW-1

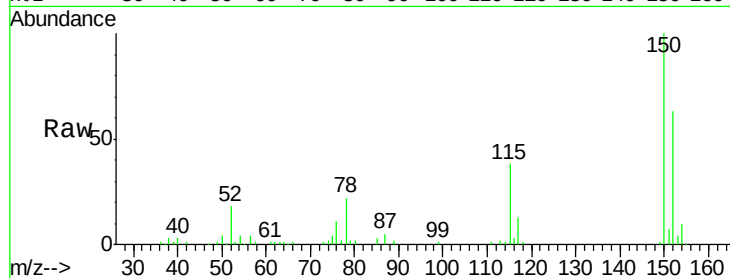
Tot Ion:152 Resp: 42498

Ion Ratio Lower Upper

152 100

150 158.0 129.0 193.4

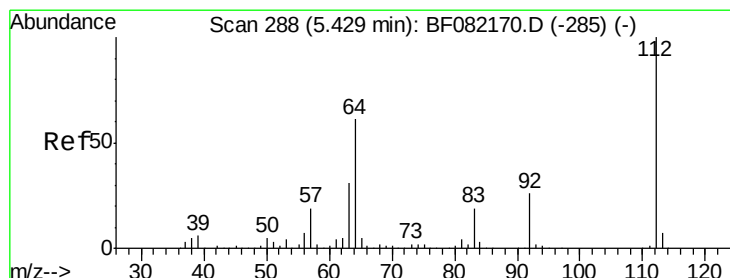
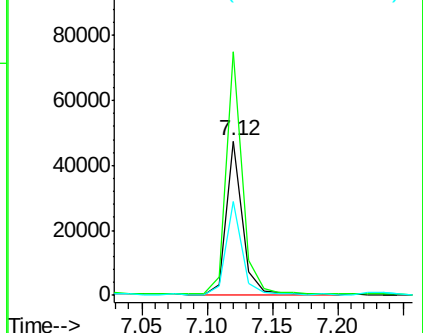
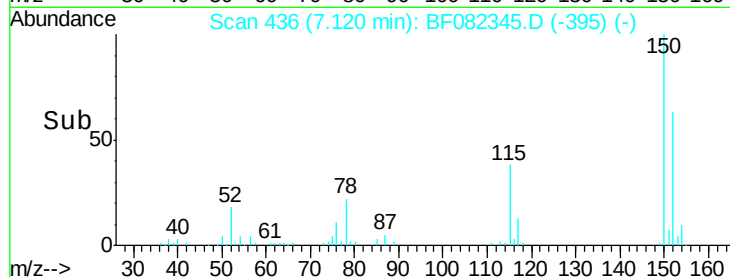
115 60.5 52.1 78.1



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol

Concen: 31.06 ng

RT: 5.58 min Scan# 301

Delta R.T. 0.01 min

Lab File: BF082345.D

Acq: 17 Oct 2015 1:33

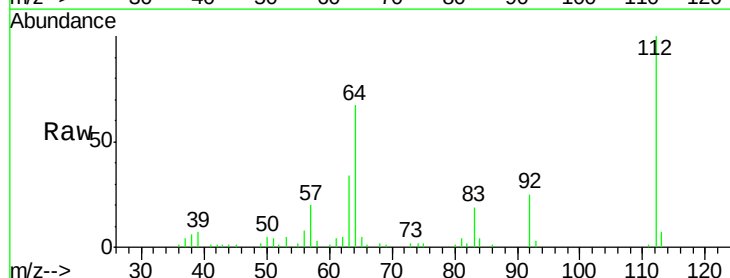
Tgt Ion:112 Resp: 65412

Ion Ratio Lower Upper

112 100

64 66.7 48.6 73.0

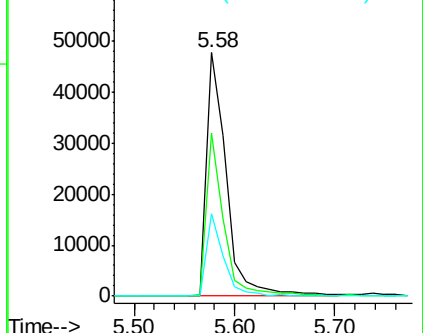
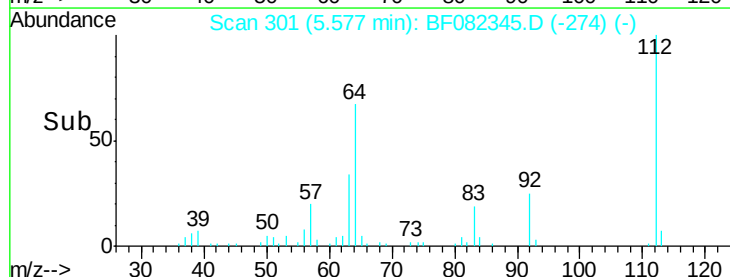
63 34.1 25.1 37.7

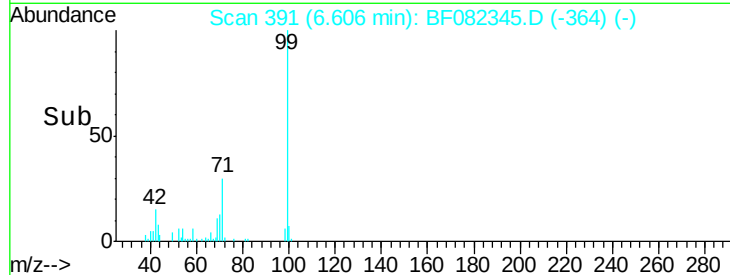
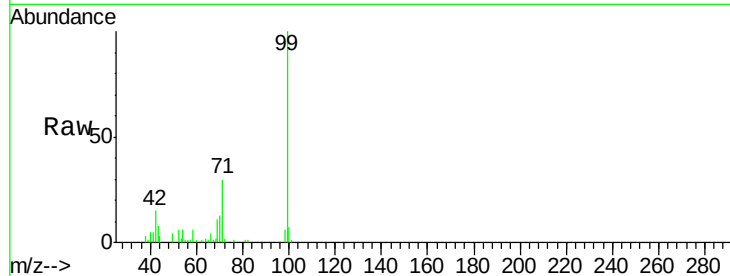
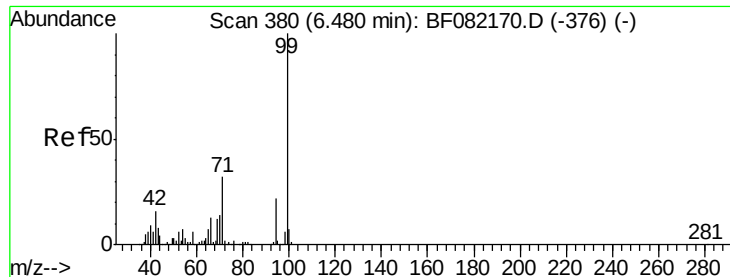


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 33.14 ng

RT: 6.61 min Scan# 391

Delta R.T. 0.01 min

Lab File: BF082345.D

Acq: 17 Oct 2015 1:33

Instrument :

BNA\_F

ClientSampleId :

KW-1

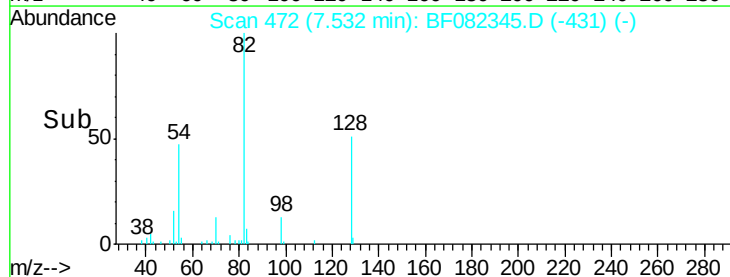
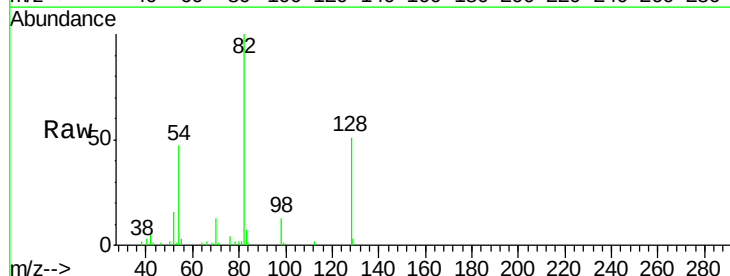
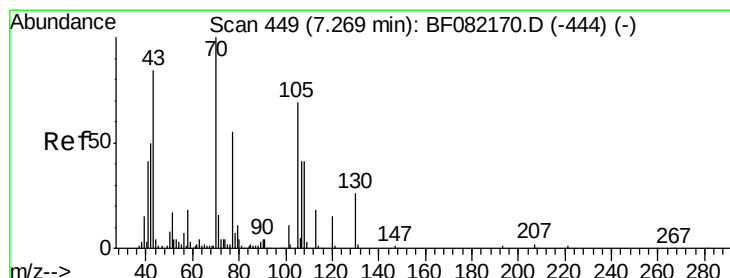
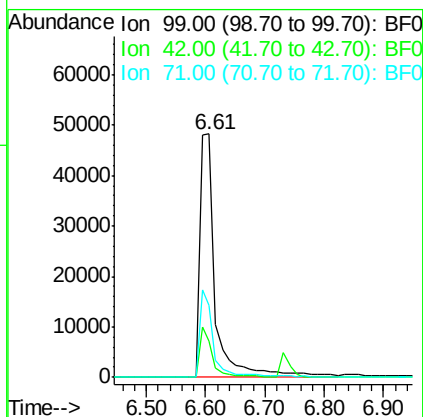
Tot Ion: 99 Resp: 90822

Ion Ratio Lower Upper

99 100

42 14.9 13.2 19.8

71 29.8 25.6 38.4



#19

n-Nitroso-di-n-propylamine

Concen: 3.21 ng

RT: 7.53 min Scan# 472

Delta R.T. 0.17 min

Lab File: BF082345.D

Acq: 17 Oct 2015 1:33

Tgt Ion: 70 Resp: 6172

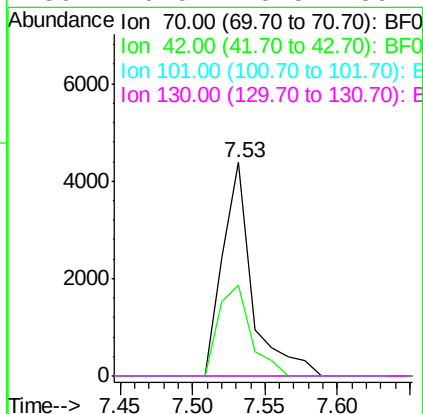
Ion Ratio Lower Upper

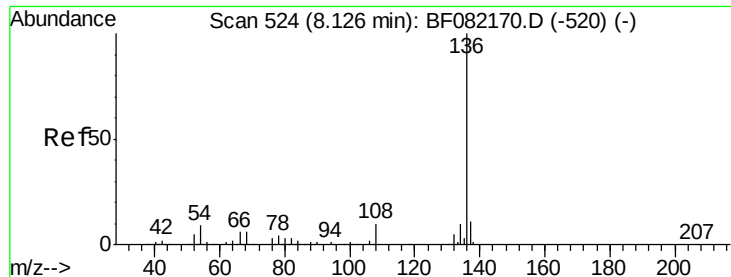
70 100

42 42.3 39.8 59.8

101 0.0 8.6 13.0#

130 0.0 20.5 30.7#

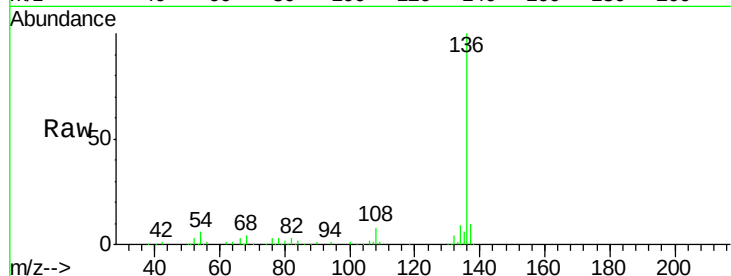




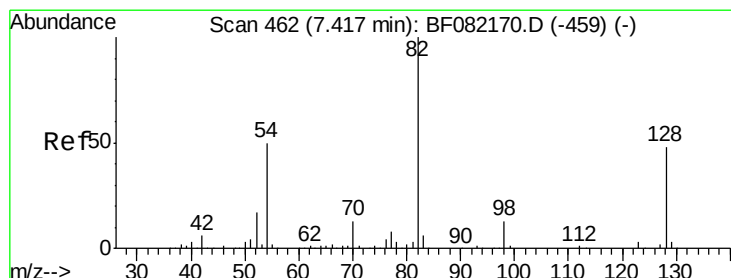
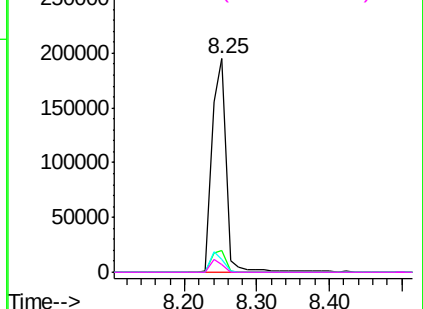
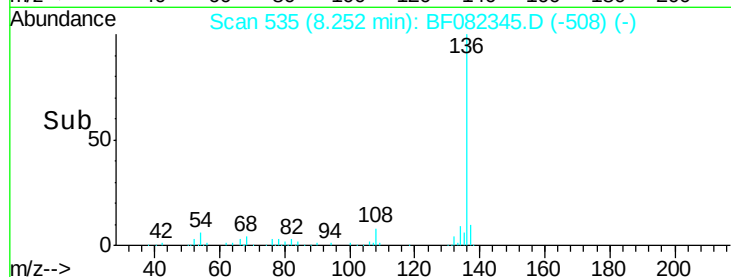
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.25 min Scan# 535  
Delta R.T. 0.01 min  
Lab File: BF082345.D  
Acq: 17 Oct 2015 1:33

Instrument :  
BNA\_F  
ClientSampleId :  
KW-1

|             |       |           |
|-------------|-------|-----------|
| Tot Ion:136 | Resp: | 263171    |
| Ion Ratio   | Lower | Upper     |
| 136         | 100   |           |
| 137         | 10.1  | 9.0 13.6  |
| 54          | 5.7   | 7.5 11.3# |
| 68          | 3.8   | 4.6 7.0#  |

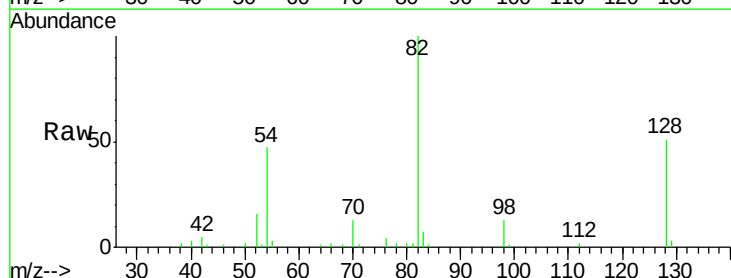


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF0  
Ion 68.00 (67.70 to 68.70): BF0

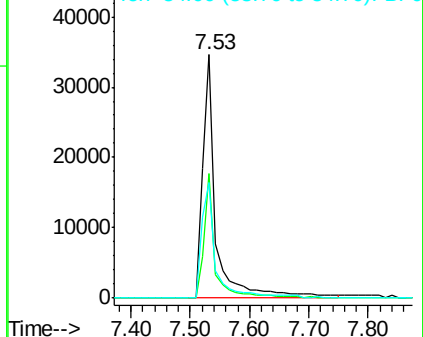
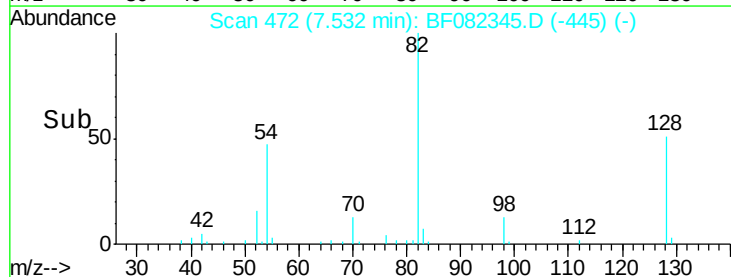


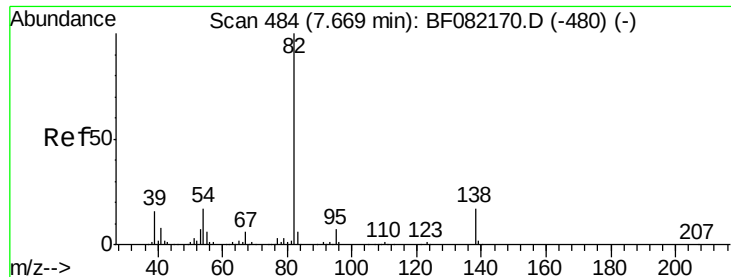
#23  
Nitrobenzene-d5  
Concen: 14.09 ng  
RT: 7.53 min Scan# 472  
Delta R.T. 0.01 min  
Lab File: BF082345.D  
Acq: 17 Oct 2015 1:33

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion: 82 | Resp: | 55218     |
| Ion Ratio   | Lower | Upper     |
| 82          | 100   |           |
| 128         | 51.3  | 38.7 58.1 |
| 54          | 47.5  | 40.1 60.1 |



Abundance Ion 82.00 (81.70 to 82.70): BF0  
Ion 128.00 (127.70 to 128.70): E  
Ion 54.00 (53.70 to 54.70): BF0





#25

Isophorone

Concen: 6.98 ng

RT: 7.53 min Scan# 472

Delta R.T. -0.24 min

Lab File: BF082345.D

Acq: 17 Oct 2015 1:33

Instrument :

BNA\_F

ClientSampleId :

KW-1

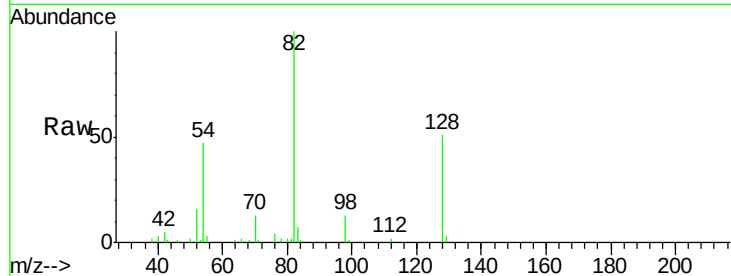
Tot Ion: 82 Resp: 55217

Ion Ratio Lower Upper

82 100

95 0.0 5.6 8.4#

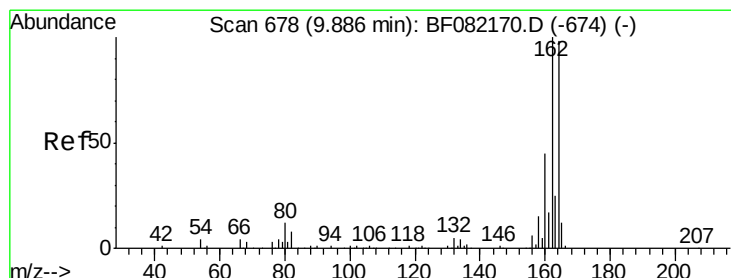
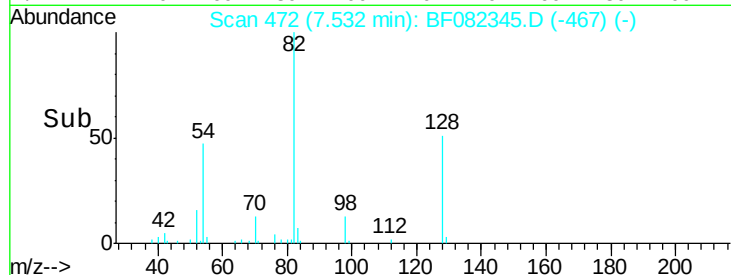
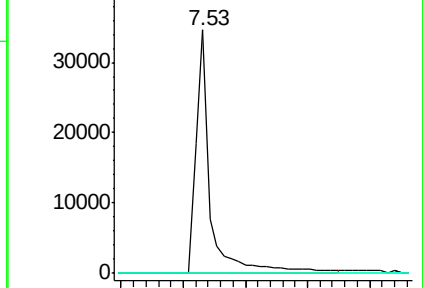
138 0.0 13.6 20.4#



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



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.99 min Scan# 687

Delta R.T. 0.00 min

Lab File: BF082345.D

Acq: 17 Oct 2015 1:33

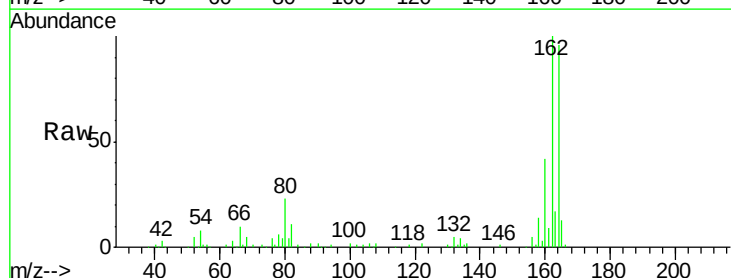
Tgt Ion:164 Resp: 148492

Ion Ratio Lower Upper

164 100

162 104.5 81.6 122.4

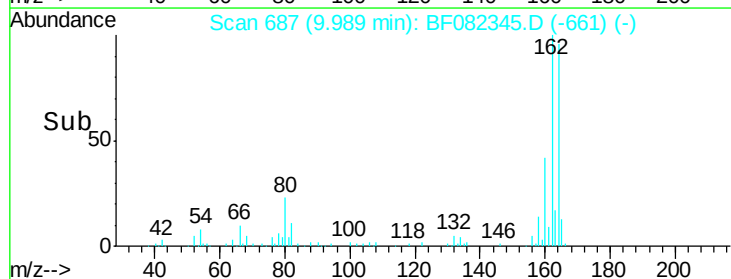
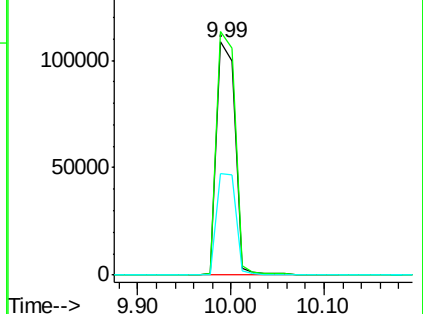
160 43.4 36.4 54.6

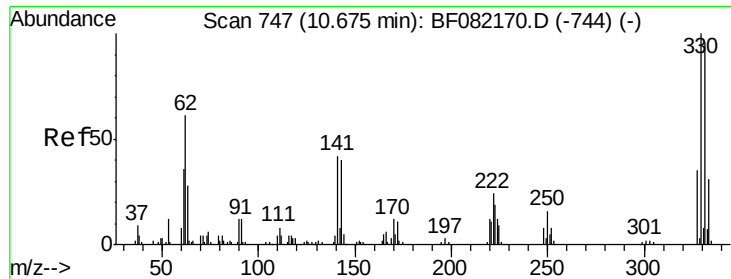


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

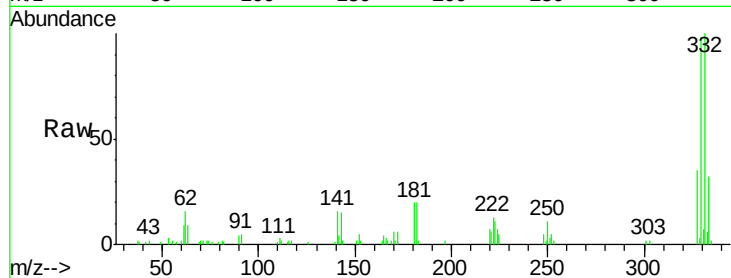




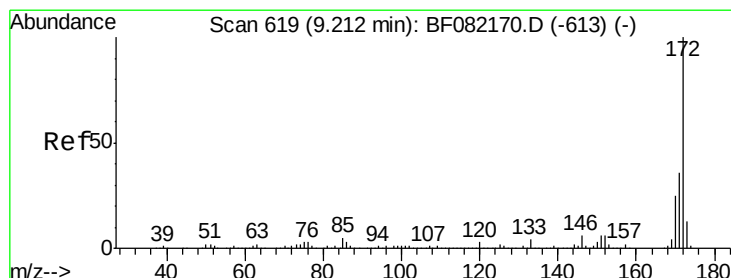
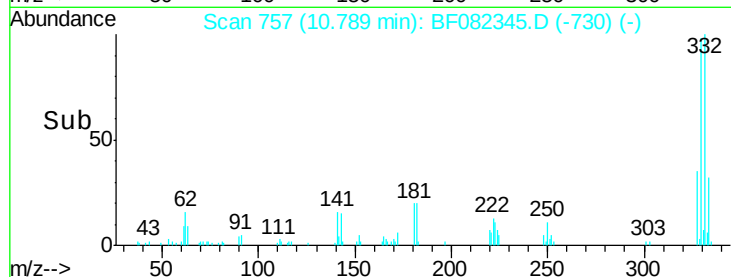
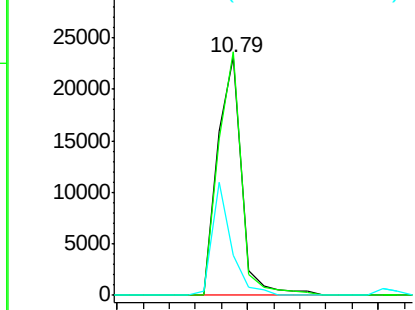
#41  
 2,4,6-Tribromophenol  
 Concen: 21.48 ng  
 RT: 10.79 min Scan# 757  
 Delta R.T. 0.01 min  
 Lab File: BF082345.D  
 Acq: 17 Oct 2015 1:33

Instrument :  
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 ClientSampleId :  
 KW-1

Tot Ion:330 Resp: 29917  
 Ion Ratio Lower Upper  
 330 100  
 332 98.3 77.1 115.7  
 141 37.7 29.8 44.8

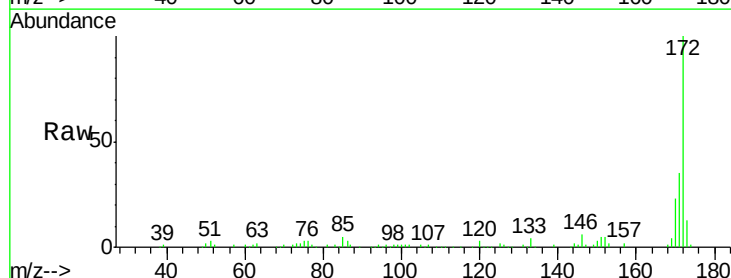


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

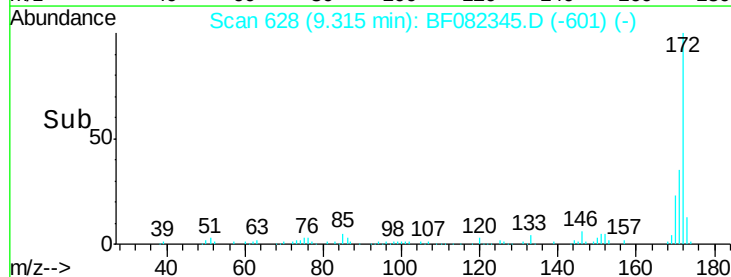
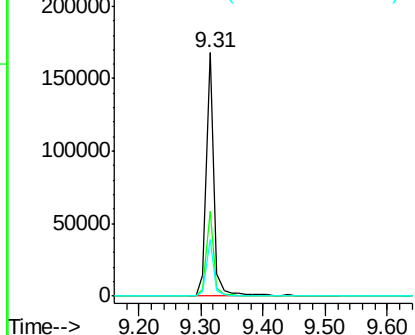


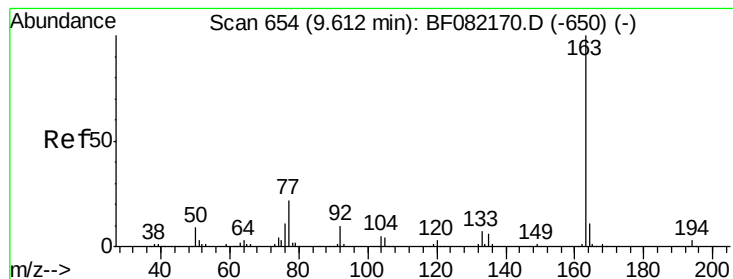
#44  
 2-Fluorobiphenyl  
 Concen: 16.42 ng  
 RT: 9.31 min Scan# 628  
 Delta R.T. 0.01 min  
 Lab File: BF082345.D  
 Acq: 17 Oct 2015 1:33

Tgt Ion:172 Resp: 146987  
 Ion Ratio Lower Upper  
 172 100  
 171 35.0 28.6 42.8  
 170 23.2 19.7 29.5



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





#49

Dimethylphthalate

Concen: 2.85 ng

RT: 9.70 min Scan# 662

Delta R.T. 0.00 min

Lab File: BF082345.D

Acq: 17 Oct 2015 1:33

Instrument :

BNA\_F

ClientSampled :

KW-1

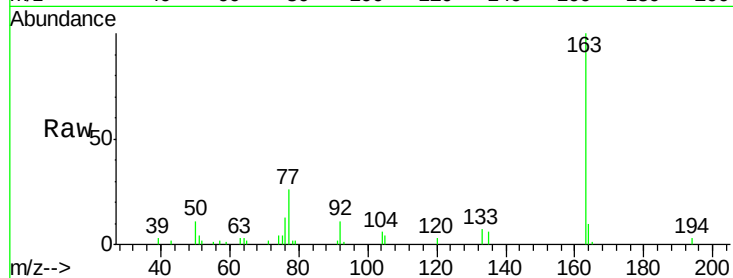
Tot Ion:163 Resp: 29853

Ion Ratio Lower Upper

163 100

194 2.8 2.6 4.0

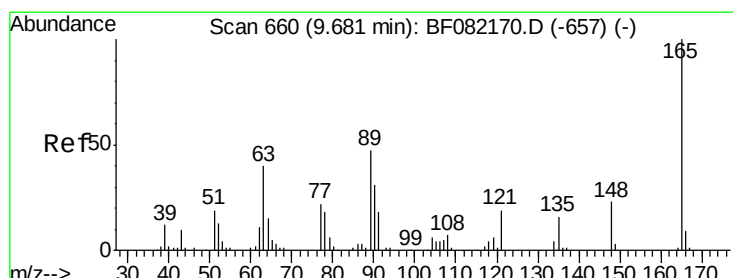
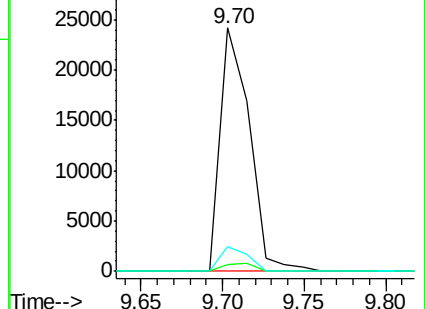
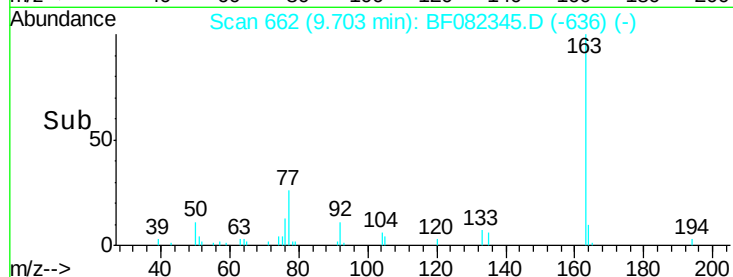
164 10.3 8.5 12.7



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



#50

2,6-Dinitrotoluene

Concen: 8.44 ng

RT: 9.99 min Scan# 687

Delta R.T. 0.22 min

Lab File: BF082345.D

Acq: 17 Oct 2015 1:33

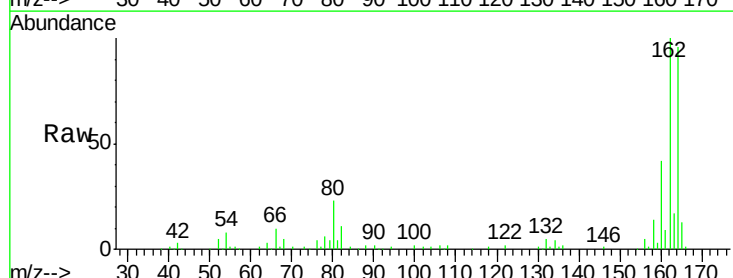
Tgt Ion:165 Resp: 18623

Ion Ratio Lower Upper

165 100

63 0.0 36.7 55.1#

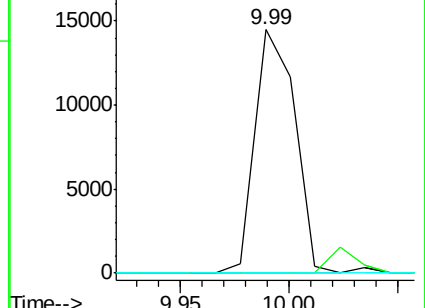
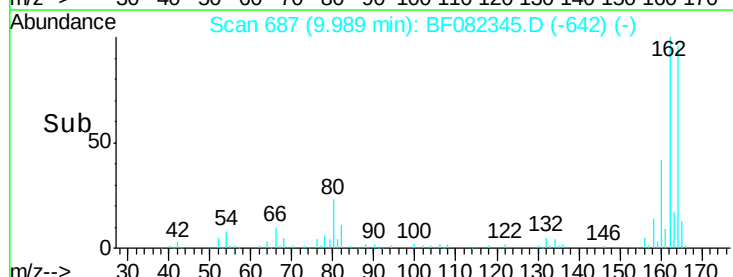
89 0.0 37.8 56.6#



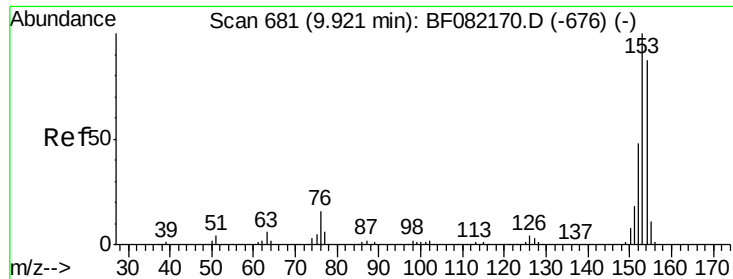
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0







#51

Acenaphthene

Concen: 2.33 ng

RT: 10.02 min Scan# 690

Delta R.T. 0.00 min

Lab File: BF082345.D

Acq: 17 Oct 2015 1:33

Instrument :

BNA\_F

ClientSampleId :

KW-1

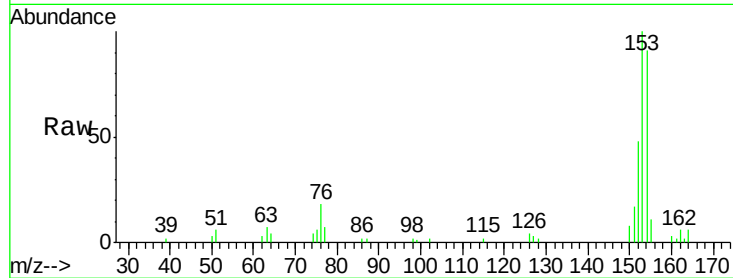
Tot Ion:154 Resp: 19431

Ion Ratio Lower Upper

154 100

153 109.6 91.4 137.2

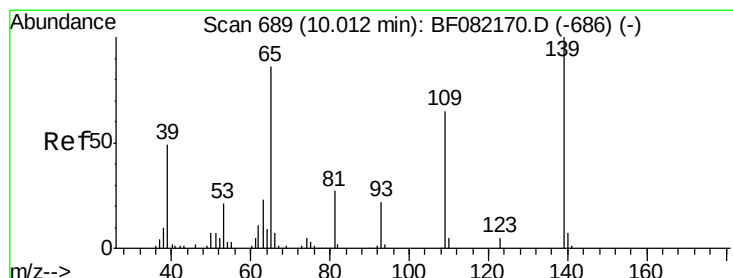
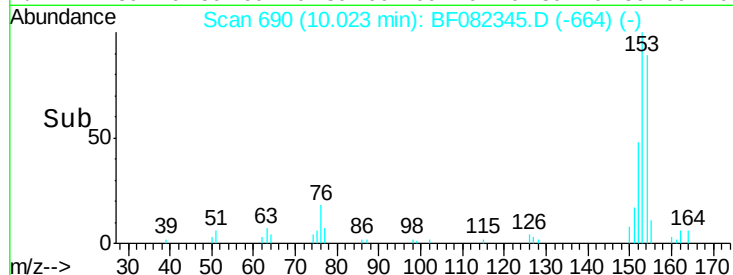
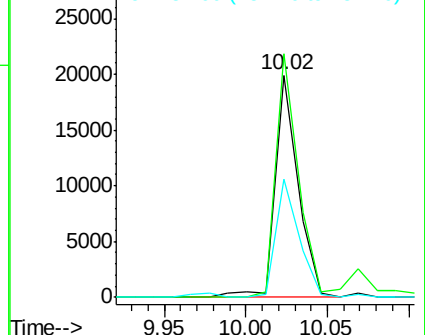
152 53.0 44.3 66.5



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



#55

4-Nitrophenol

Concen: 5.02 ng

RT: 10.19 min Scan# 705

Delta R.T. 0.08 min

Lab File: BF082345.D

Acq: 17 Oct 2015 1:33

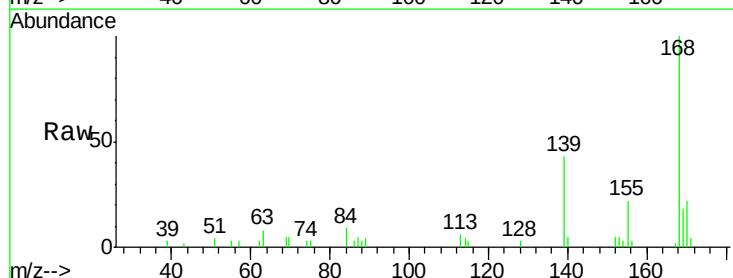
Tgt Ion:139 Resp: 6750

Ion Ratio Lower Upper

139 100

109 0.0 44.8 84.8#

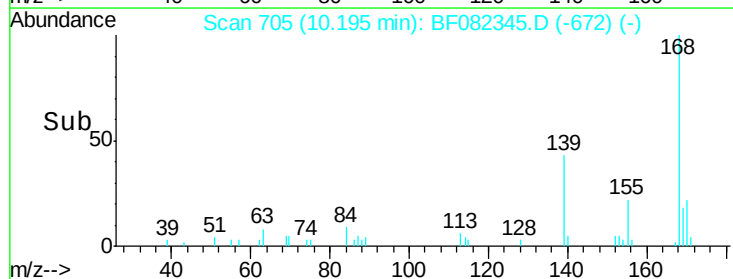
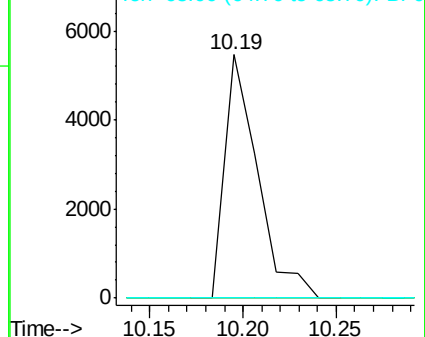
65 0.0 67.7 107.7#

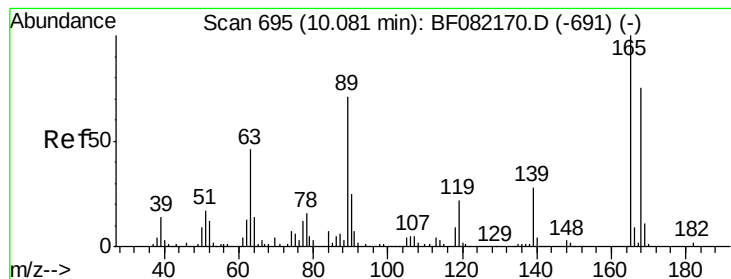


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF0





#56

2,4-Dinitrotoluene

Concen: 6.83 ng

RT: 9.99 min Scan# 687

Delta R.T. -0.19 min

Lab File: BF082345.D

Acq: 17 Oct 2015 1:33

Instrument :

BNA\_F

ClientSampleId :

KW-1

Tot Ion:165 Resp: 18832

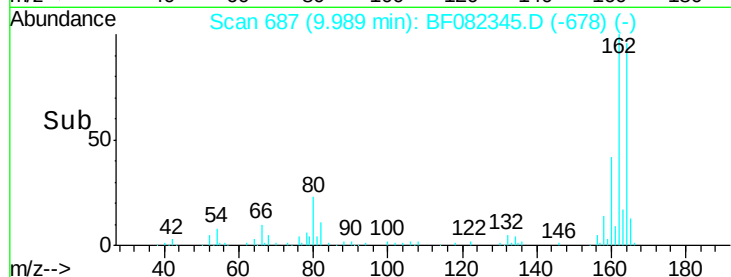
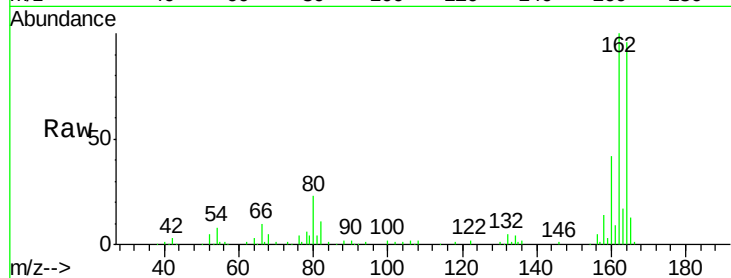
Ion Ratio Lower Upper

165 100

63 0.0 38.6 58.0#

89 0.0 57.0 85.6#

182 0.0 1.8 2.6#

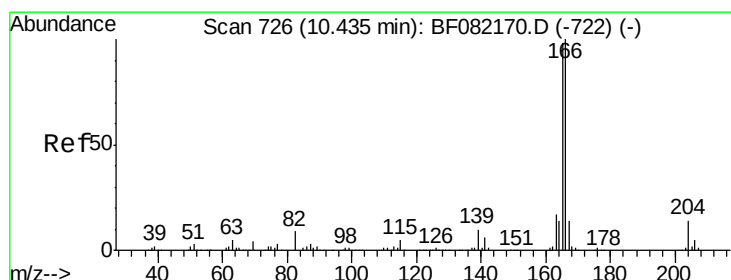
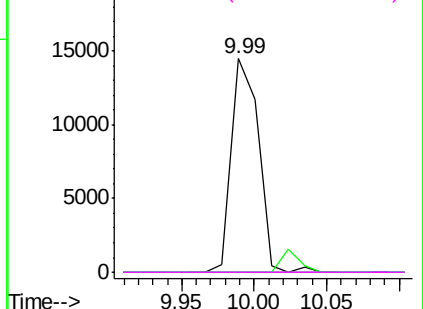


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E



#57

Fluorene

Concen: 2.01 ng

RT: 10.54 min Scan# 735

Delta R.T. 0.00 min

Lab File: BF082345.D

Acq: 17 Oct 2015 1:33

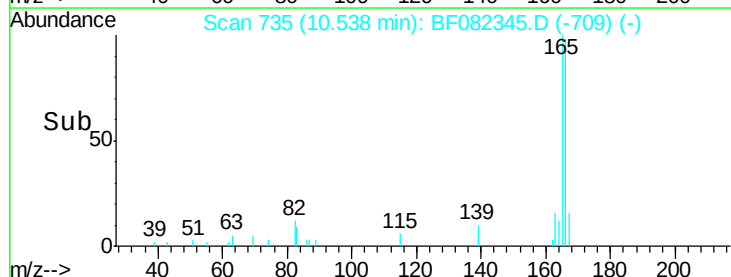
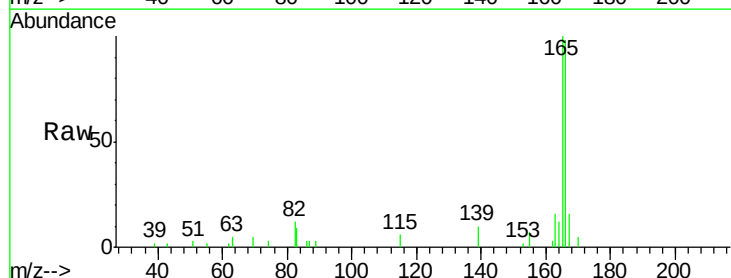
Tgt Ion:166 Resp: 18857

Ion Ratio Lower Upper

166 100

165 102.1 78.3 117.5

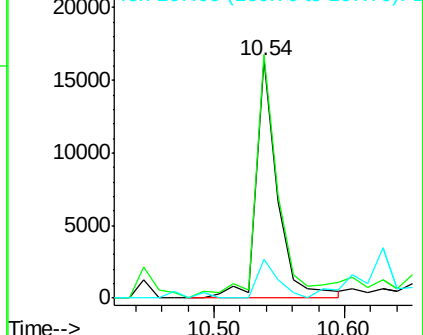
167 16.1 10.8 16.2

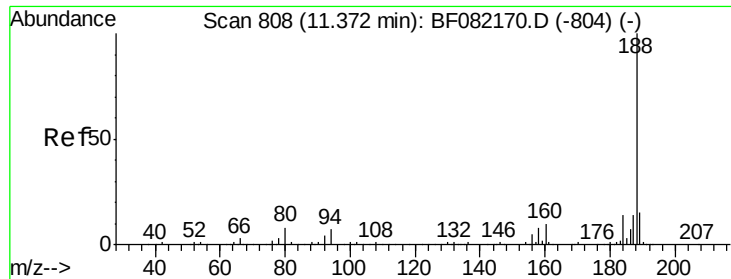


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.47 min Scan# 817

Delta R.T. 0.00 min

Lab File: BF082345.D

Acq: 17 Oct 2015 1:33

Instrument :

BNA\_F

ClientSampled :

KW-1

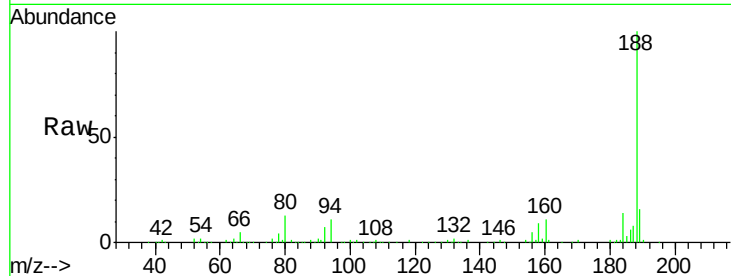
Tot Ion:188 Resp: 301215

Ion Ratio Lower Upper

188 100

94 11.4 5.8 8.6#

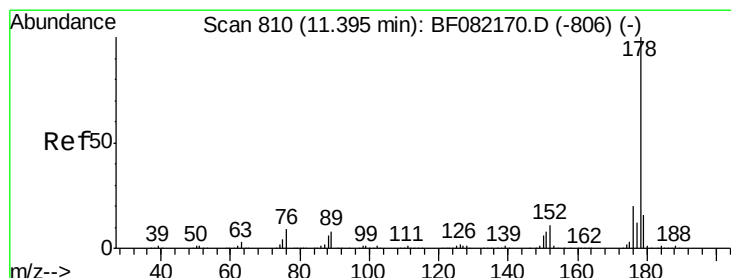
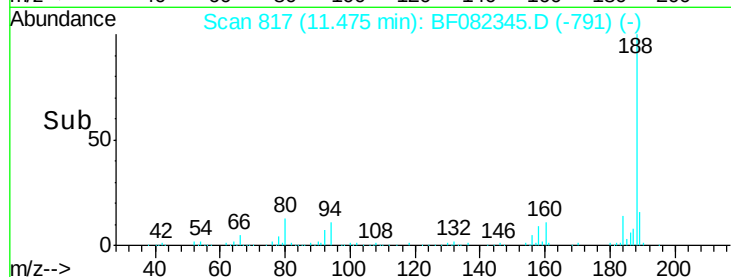
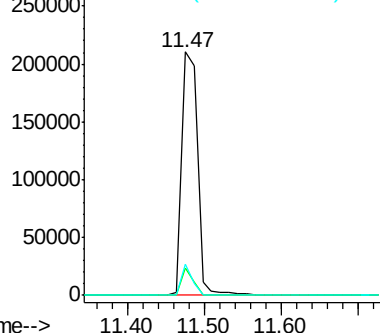
80 12.9 6.4 9.6#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0



#70

Phenanthrene

Concen: 33.22 ng

RT: 11.51 min Scan# 820

Delta R.T. 0.01 min

Lab File: BF082345.D

Acq: 17 Oct 2015 1:33

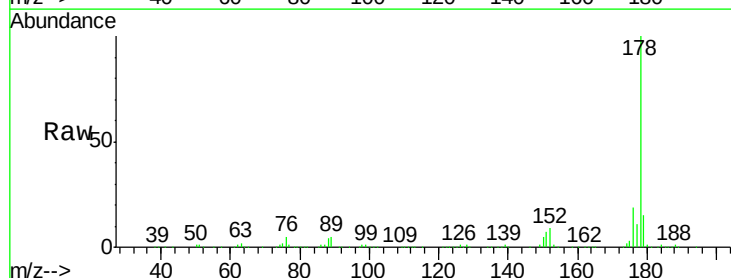
Tgt Ion:178 Resp: 490541

Ion Ratio Lower Upper

178 100

176 19.1 16.0 24.0

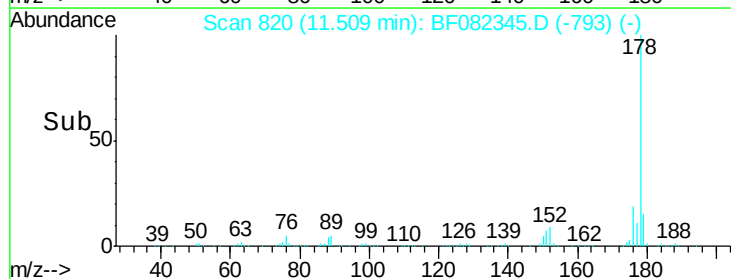
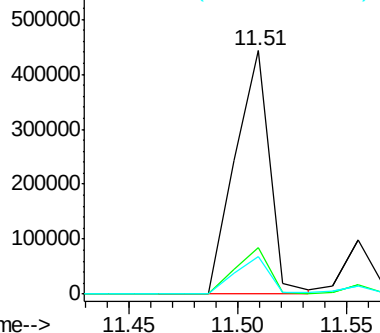
179 15.3 12.6 19.0

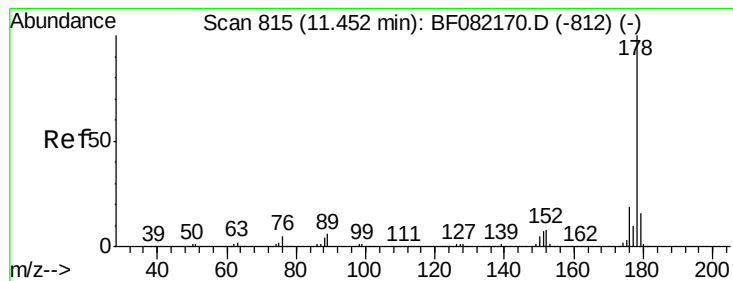


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#71

Anthracene

Concen: 6.72 ng

RT: 11.55 min Scan# 824

Delta R.T. 0.01 min

Lab File: BF082345.D

Acq: 17 Oct 2015 1:33

Instrument :

BNA\_F

ClientSampled :

KW-1

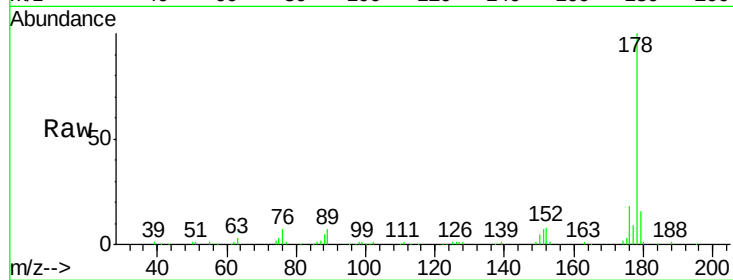
Tot Ion:178 Resp: 102295

Ion Ratio Lower Upper

178 100

176 17.8 15.4 23.0

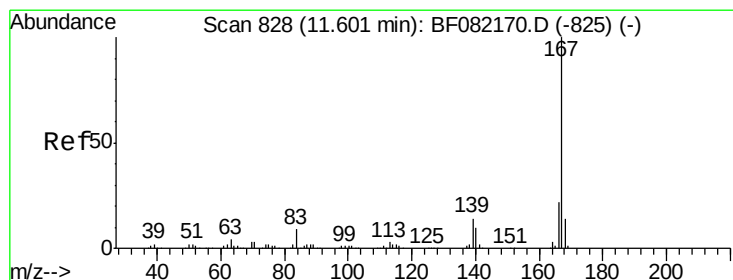
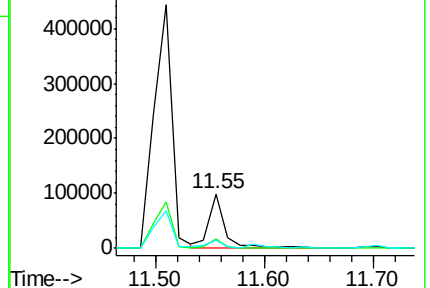
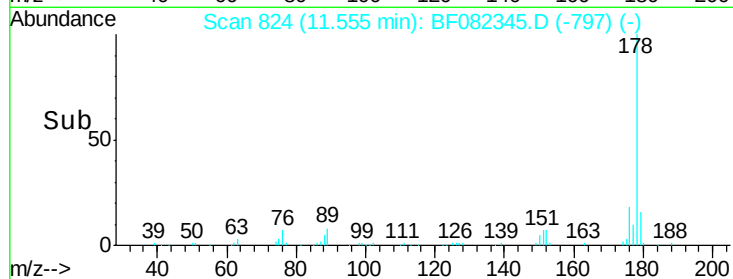
179 15.9 12.5 18.7



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: 3.55 ng

RT: 11.71 min Scan# 838

Delta R.T. 0.01 min

Lab File: BF082345.D

Acq: 17 Oct 2015 1:33

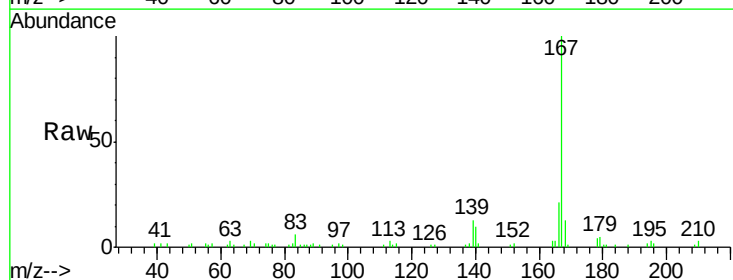
Tgt Ion:167 Resp: 49296

Ion Ratio Lower Upper

167 100

166 21.5 17.3 25.9

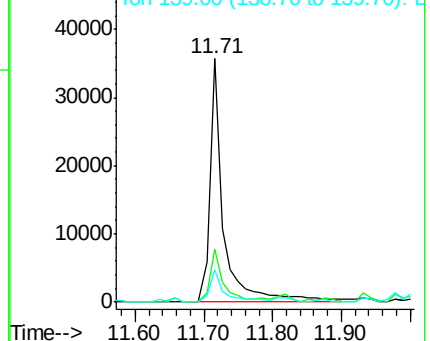
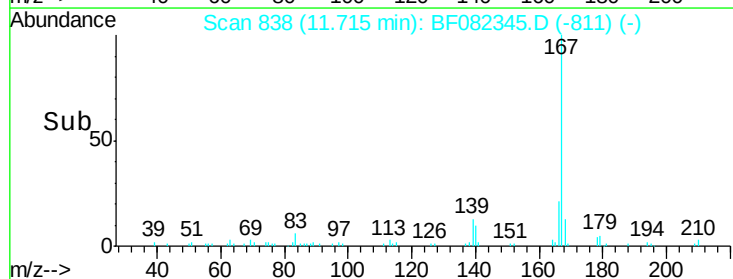
139 13.4 11.2 16.8

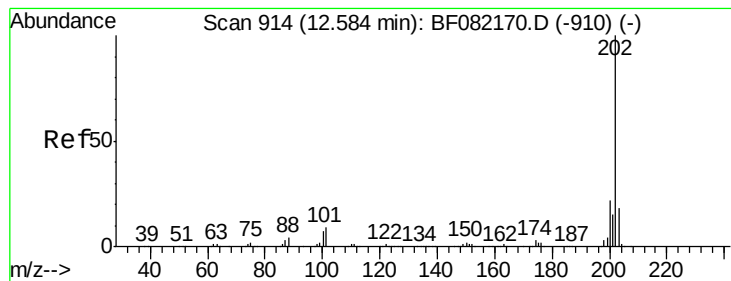


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 48.20 ng

RT: 12.70 min Scan# 924

Delta R.T. 0.01 min

Lab File: BF082345.D

Acq: 17 Oct 2015 1:33

Instrument :

BNA\_F

ClientSampleId :

KW-1

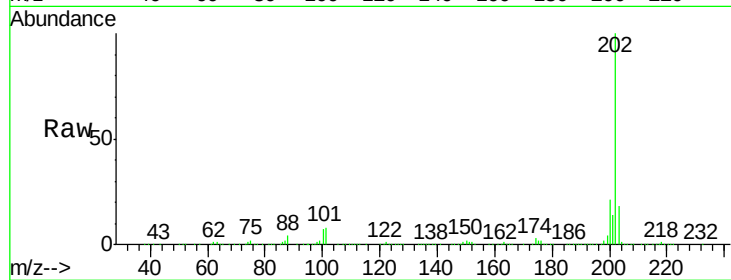
Tot Ion:202 Resp: 764399

Ion Ratio Lower Upper

202 100

101 8.5 0.0 29.3

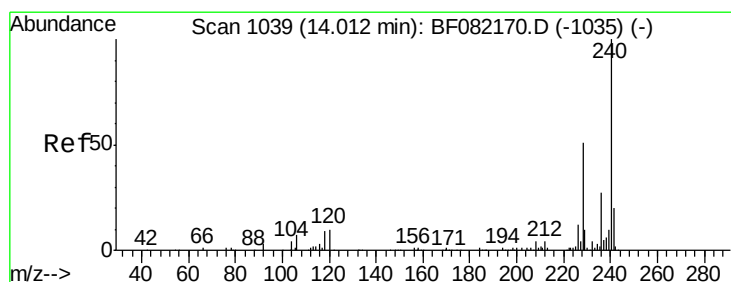
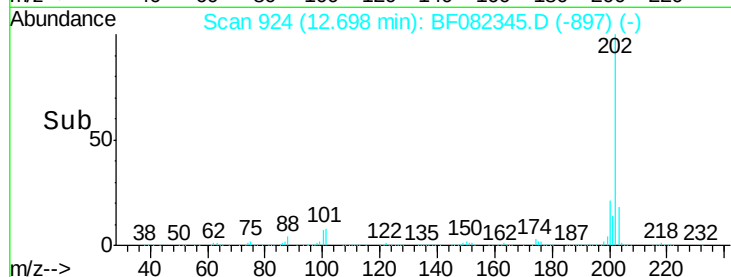
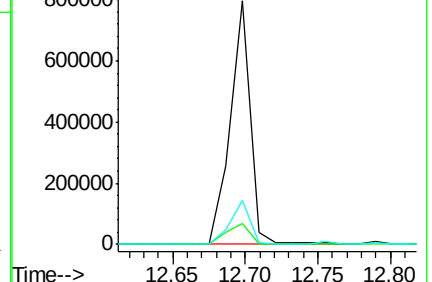
203 17.9 0.0 37.8



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: 14.14 min Scan# 1050

Delta R.T. 0.00 min

Lab File: BF082345.D

Acq: 17 Oct 2015 1:33

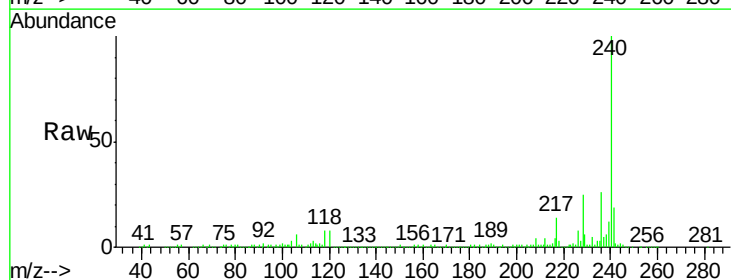
Tgt Ion:240 Resp: 260235

Ion Ratio Lower Upper

240 100

120 8.1 8.1 12.1

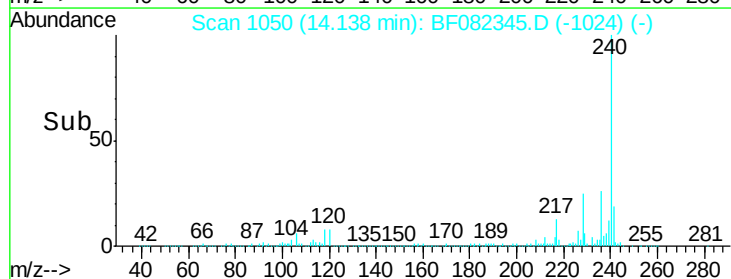
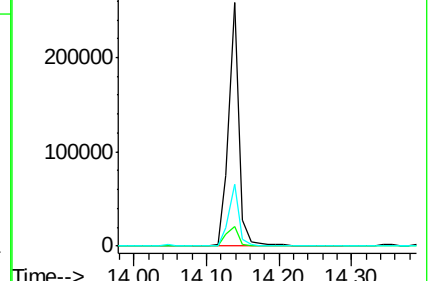
236 25.5 21.3 31.9

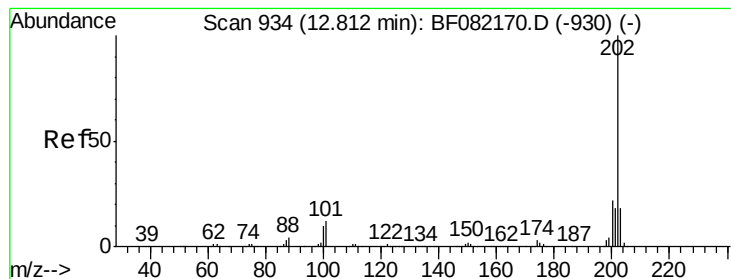


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 43.38 ng

RT: 12.93 min Scan# 944

Delta R.T. 0.01 min

Lab File: BF082345.D

Acq: 17 Oct 2015 1:33

Instrument :

BNA\_F

ClientSampleId :

KW-1

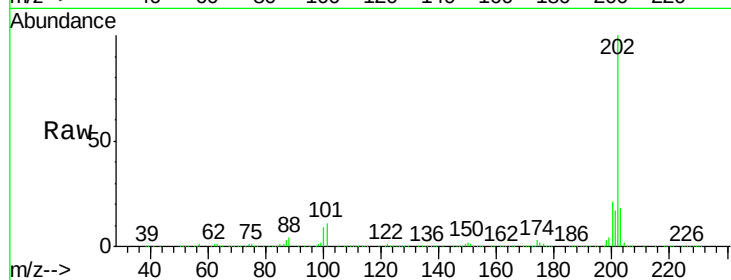
Tot Ion:202 Resp: 669914

Ion Ratio Lower Upper

202 100

200 21.1 17.9 26.9

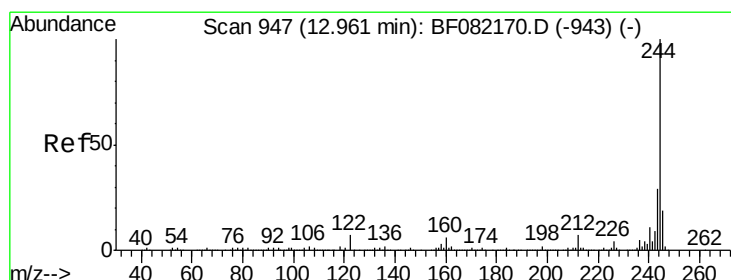
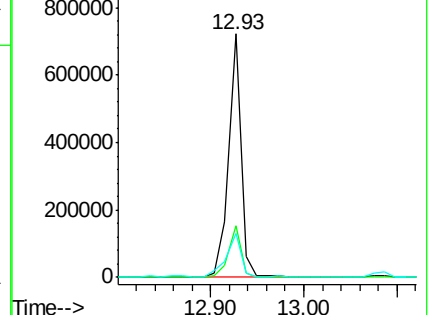
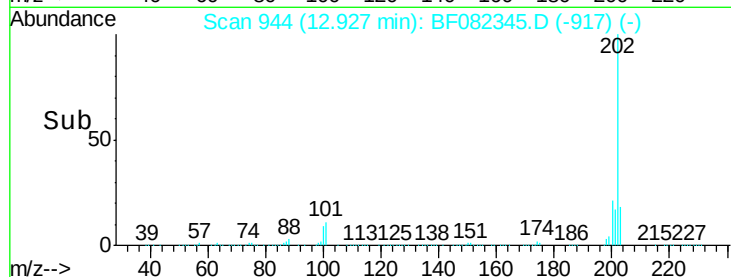
203 18.2 14.5 21.7



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: 15.60 ng

RT: 13.06 min Scan# 956

Delta R.T. 0.01 min

Lab File: BF082345.D

Acq: 17 Oct 2015 1:33

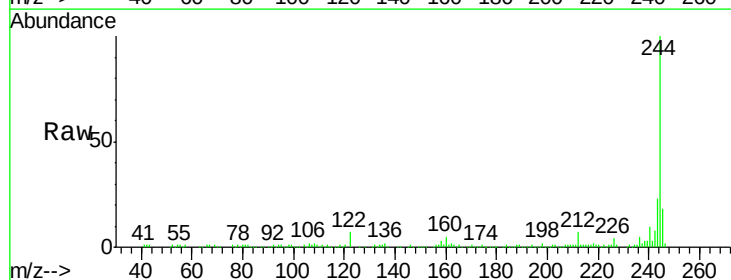
Tgt Ion:244 Resp: 153184

Ion Ratio Lower Upper

244 100

212 6.6 5.8 8.6

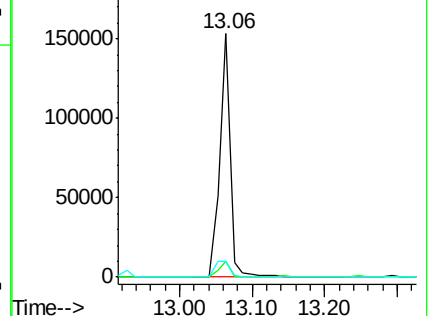
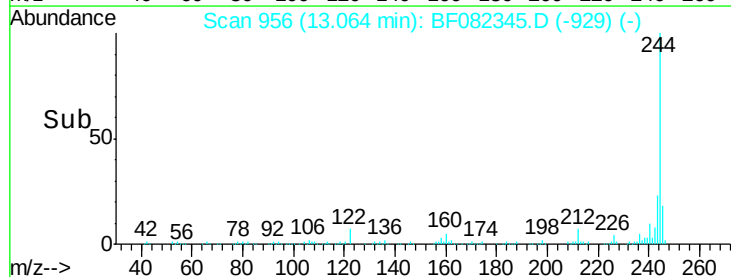
122 6.7 5.9 8.9

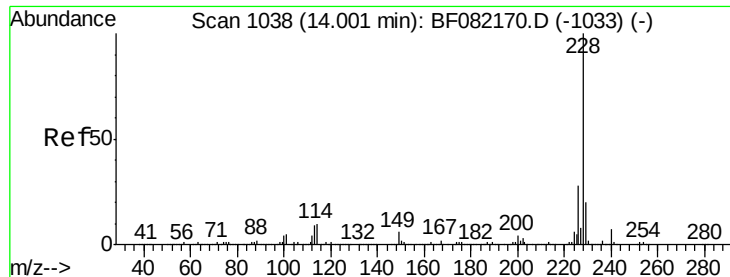


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 29.34 ng

RT: 14.13 min Scan# 1049

Delta R.T. 0.00 min

Lab File: BF082345.D

Acq: 17 Oct 2015 1:33

Instrument :

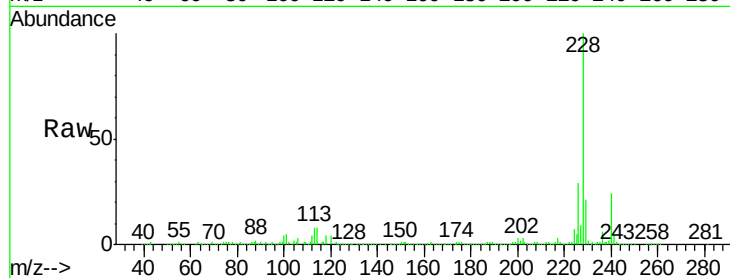
BNA\_F

ClientSampleId :

KW-1

Tot Ion:228 Resp: 397285

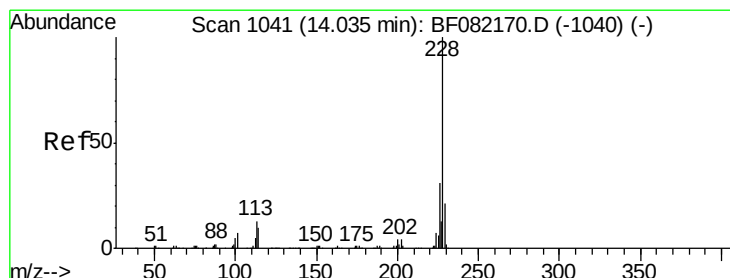
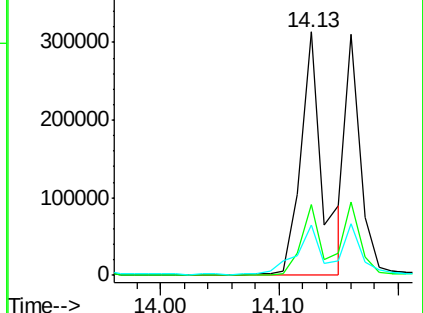
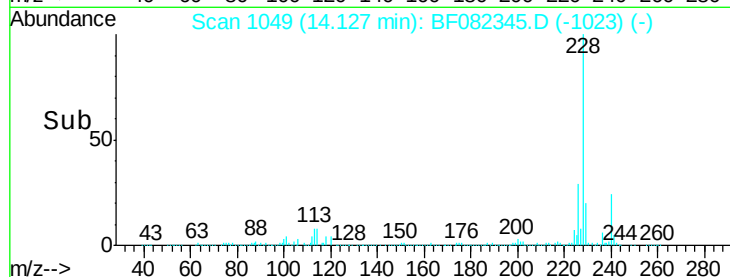
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 228 | 100   |       |       |
| 226 | 29.1  | 22.3  | 33.5  |
| 229 | 20.9  | 16.2  | 24.2  |



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: 19.54 ng

RT: 14.16 min Scan# 1052

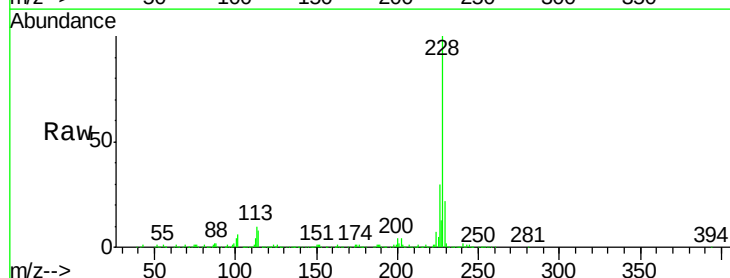
Delta R.T. -0.01 min

Lab File: BF082345.D

Acq: 17 Oct 2015 1:33

Tgt Ion:228 Resp: 278793

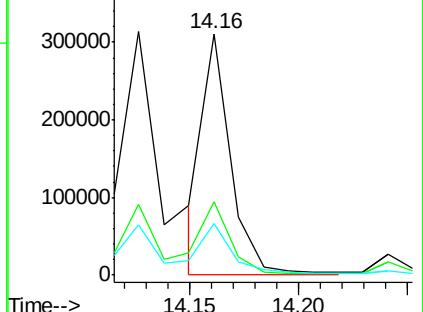
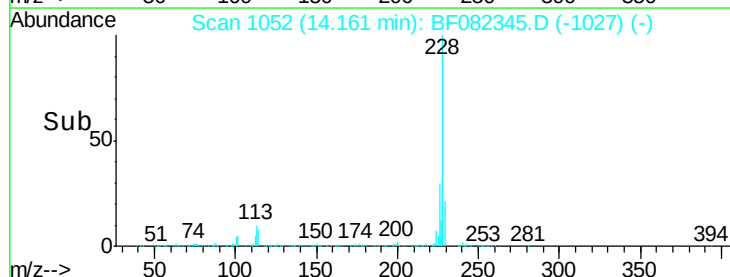
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 228 | 100   |       |       |
| 226 | 30.2  | 24.4  | 36.6  |
| 229 | 21.5  | 16.3  | 24.5  |

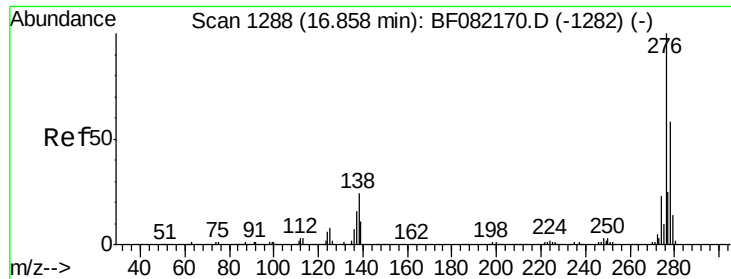


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

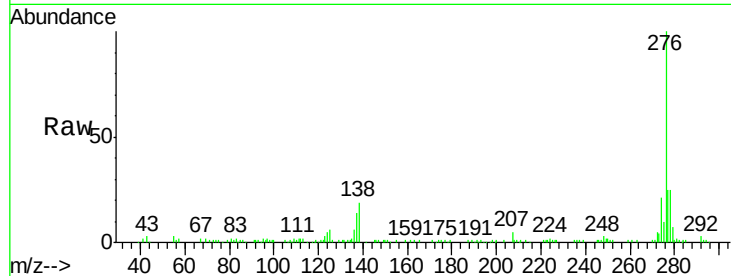




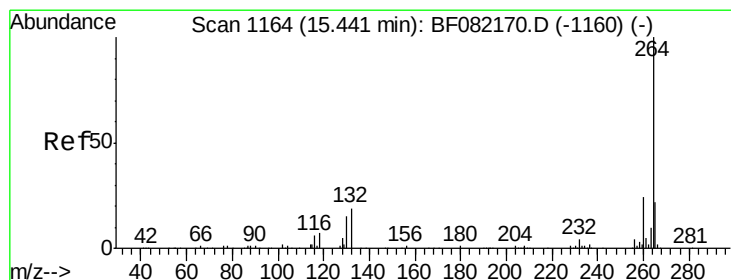
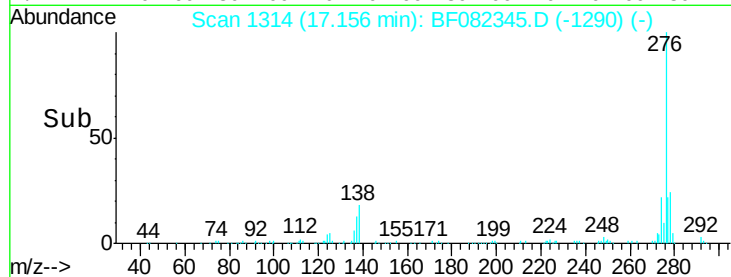
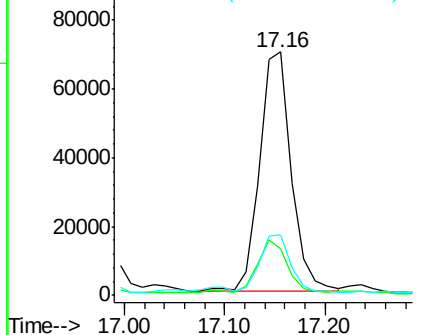
#85  
 Indeno(1,2,3-cd)pyrene  
 Concen: 13.45 ng  
 RT: 17.16 min Scan# 1314  
 Delta R.T. -0.02 min  
 Lab File: BF082345.D  
 Acq: 17 Oct 2015 1:33

Instrument :  
 BNA\_F  
 ClientSampleId :  
 KW-1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 20.7  | 19.7  | 29.5  |
| 277     | 23.3  | 20.1  | 30.1  |

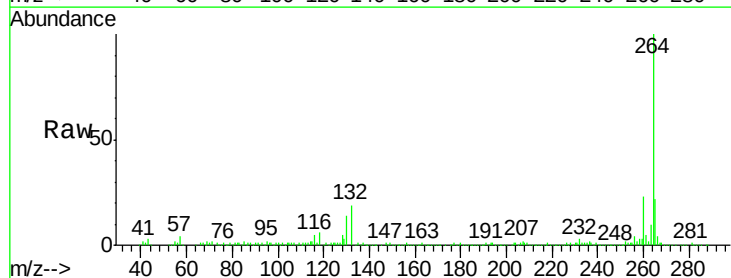


Abundance Ion 276.00 (275.70 to 276.70): E  
 Ion 138.00 (137.70 to 138.70): E  
 Ion 277.00 (276.70 to 277.70): E

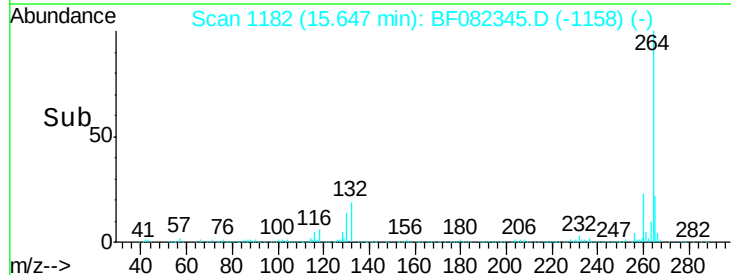
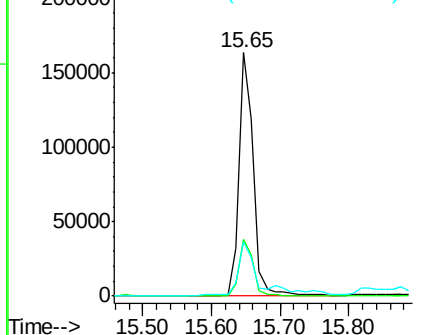


#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 15.65 min Scan# 1182  
 Delta R.T. -0.02 min  
 Lab File: BF082345.D  
 Acq: 17 Oct 2015 1:33

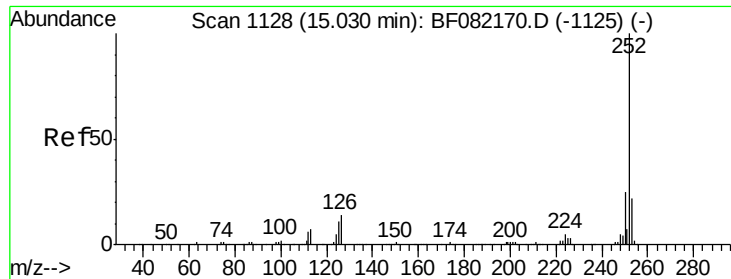
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.1  | 19.0  | 28.6  |
| 265     | 22.4  | 17.3  | 25.9  |



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



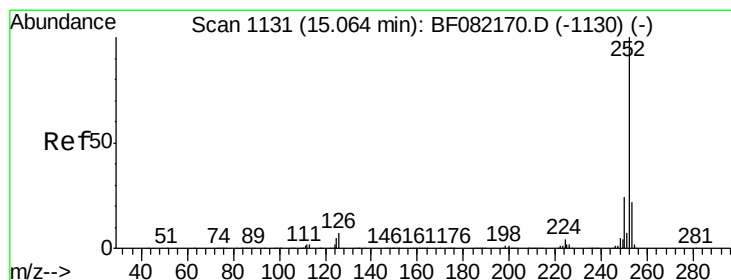
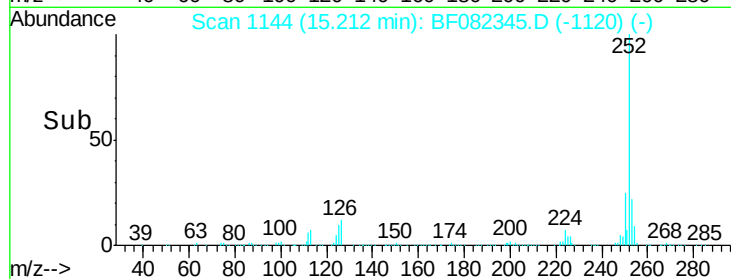
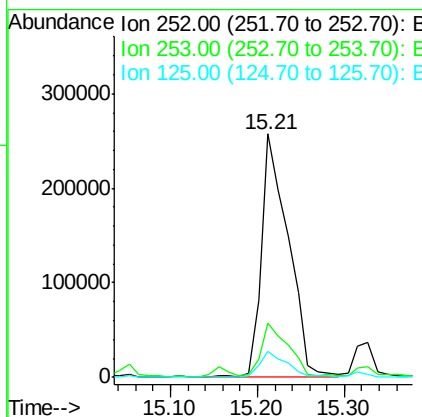
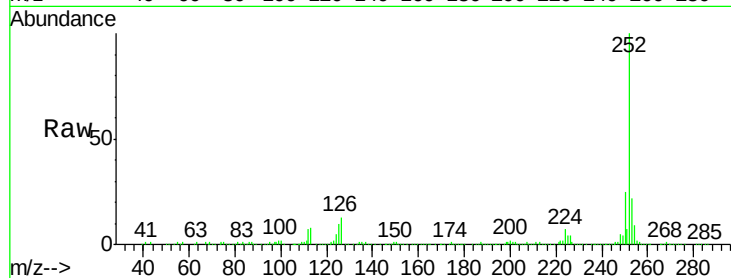




#87  
Benzo(b)fluoranthene  
Concen: 37.35 ng  
RT: 15.21 min Scan# 1144  
Delta R.T. -0.02 min  
Lab File: BF082345.D  
Acq: 17 Oct 2015 1:33

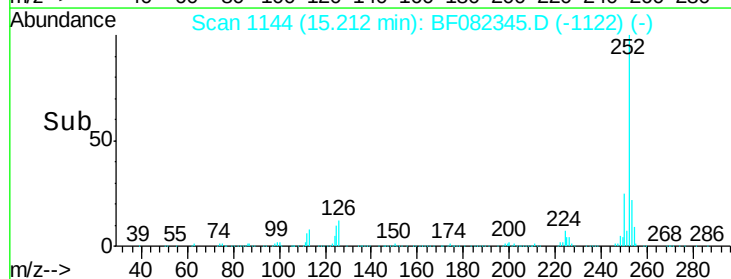
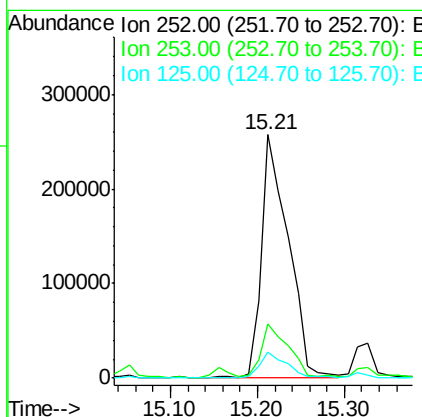
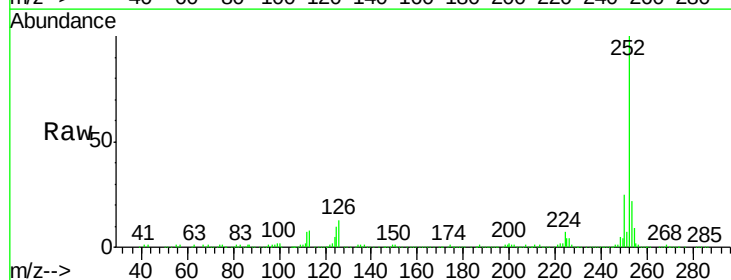
Instrument :  
BNA\_F  
ClientSampleId :  
KW-1

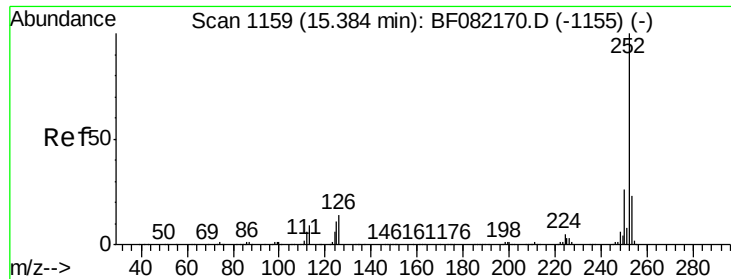
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.4  | 18.0  | 27.0  |
| 125     | 10.4  | 8.6   | 12.8  |



#88  
Benzo(k)fluoranthene  
Concen: 44.43 ng  
RT: 15.21 min Scan# 1144  
Delta R.T. -0.05 min  
Lab File: BF082345.D  
Acq: 17 Oct 2015 1:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.4  | 17.8  | 26.6  |
| 125     | 10.4  | 6.7   | 10.1# |

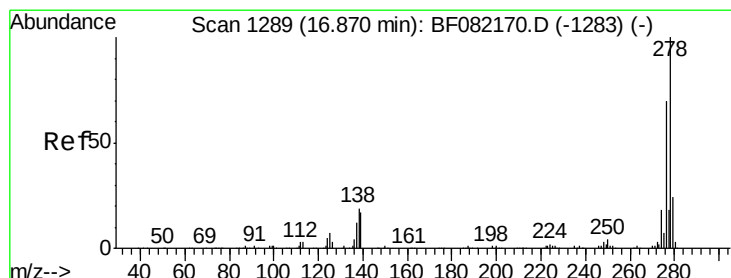
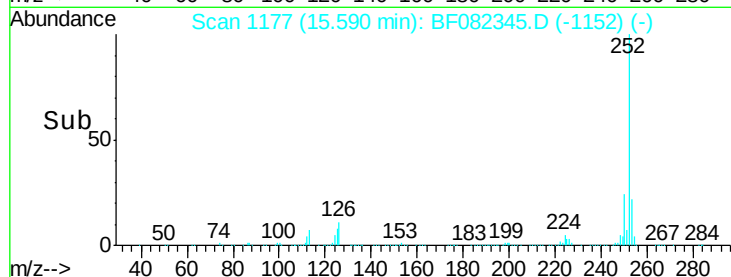
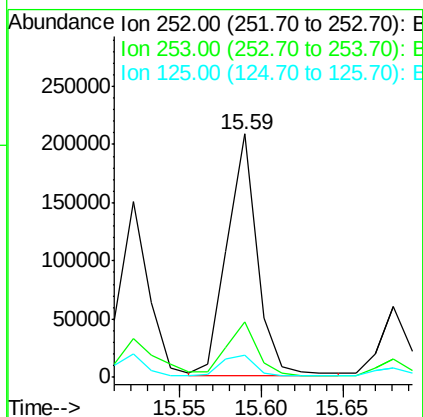
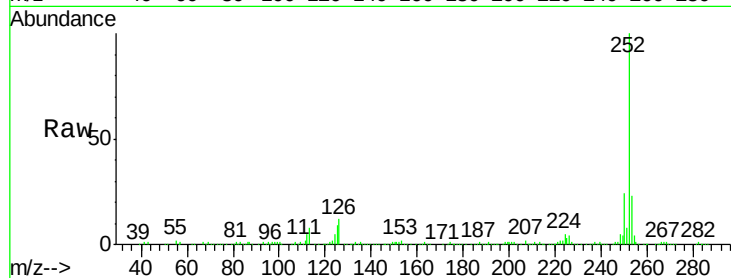




#89  
Benzo(a)pyrene  
Concen: 21.09 ng  
RT: 15.59 min Scan# 1177  
Delta R.T. -0.01 min  
Lab File: BF082345.D  
Acq: 17 Oct 2015 1:33

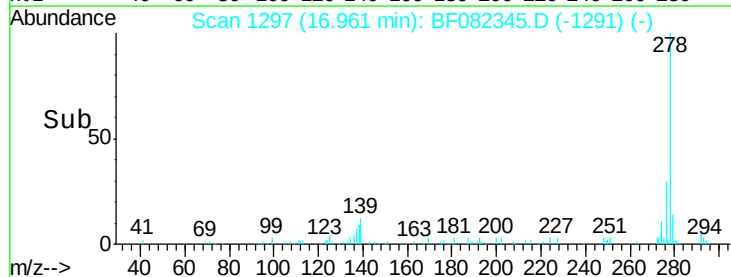
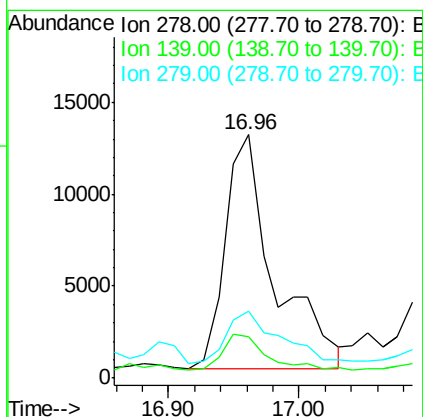
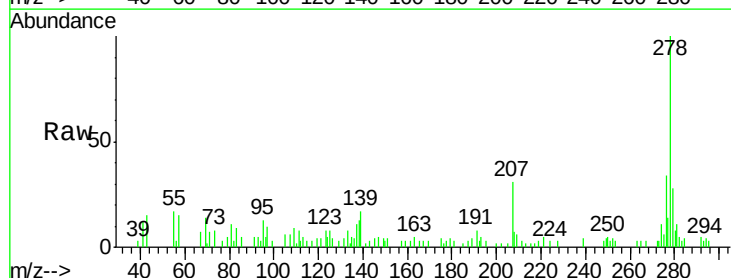
Instrument :  
BNA\_F  
ClientSampleId :  
KW-1

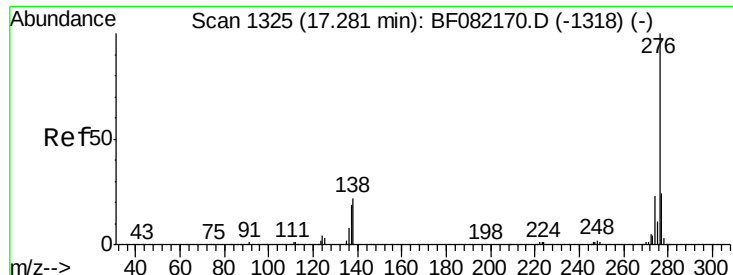
Tot Ion:252 Resp: 265962  
Ion Ratio Lower Upper  
252 100  
253 22.7 18.2 27.2  
125 9.1 8.9 13.3



#90  
Dibenzo(a,h)anthracene  
Concen: 3.25 ng  
RT: 16.96 min Scan# 1297  
Delta R.T. -0.23 min  
Lab File: BF082345.D  
Acq: 17 Oct 2015 1:33

Tgt Ion:278 Resp: 33542  
Ion Ratio Lower Upper  
278 100  
139 16.9 13.3 19.9  
279 27.6 18.9 28.3

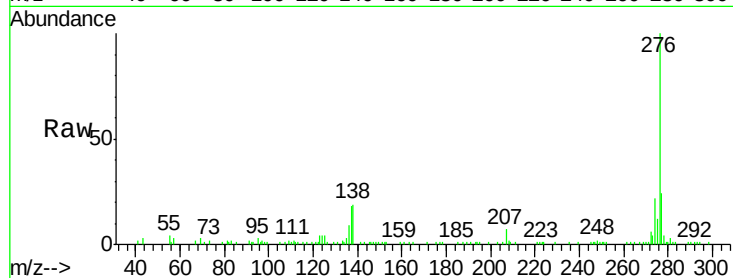




#91  
 Benzo(a,h,i)perylene  
 Concen: 13.60 ng  
 RT: 17.61 min Scan# 1354  
 Delta R.T. -0.01 min  
 Lab File: BF082345.D  
 Acq: 17 Oct 2015 1:33

Instrument :  
 BNA\_F  
 ClientSampleId :  
 KW-1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 24.4  | 18.8  | 28.2  |
| 138     | 19.3  | 17.4  | 26.2  |



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

