

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF051915\  
 Data File : BF079362.D  
 Acq On : 20 May 2015 3:03  
 Operator : TP/IZ  
 Sample : G2281-01  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-01

Quant Time: May 20 04:32:28 2015  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF043015.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue May 19 13:22:43 2015  
 Response via : Initial Calibration

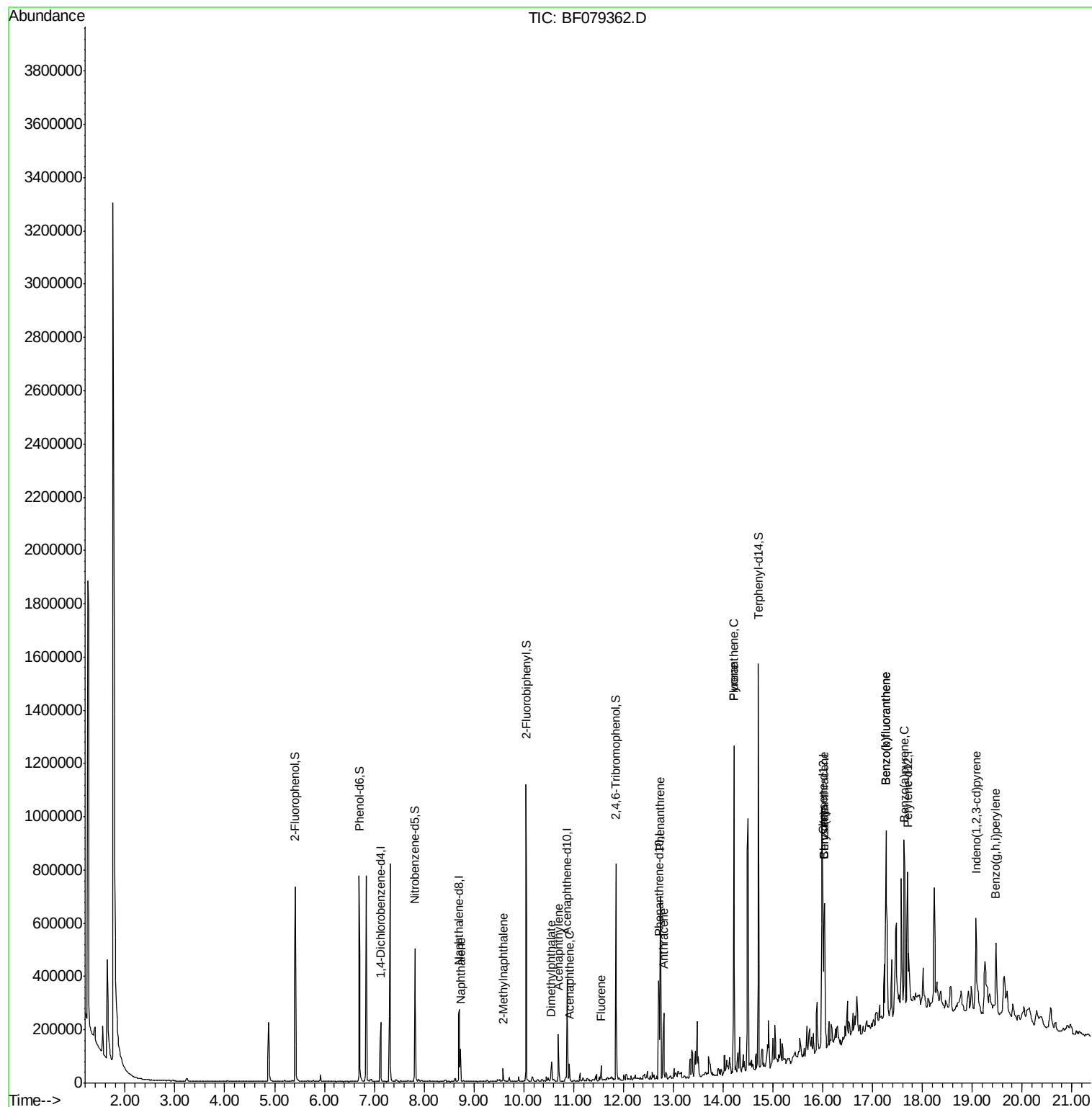
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.13  | 152  | 45130    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.71  | 136  | 185912   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10        | 10.87 | 164  | 93416    | 20.00  | ng    | -0.01    |
| 63) Phenanthrene-d10        | 12.71 | 188  | 181002   | 20.00  | ng    | -0.01    |
| 75) Chrysene-d12            | 16.00 | 240  | 204689   | 20.00  | ng    | -0.02    |
| 86) Perylene-d12            | 17.70 | 264  | 223238   | 20.00  | ng    | -0.11    |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.42  | 112  | 257468   | 98.20  | ng    | 0.00     |
| 7) Phenol-d6                | 6.70  | 99   | 348563   | 100.58 | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.82  | 82   | 200411   | 61.95  | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol    | 11.85 | 330  | 109037   | 107.89 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl        | 10.04 | 172  | 421366   | 62.84  | ng    | -0.01    |
| 78) Terphenyl-d14           | 14.71 | 244  | 522510   | 61.12  | ng    | -0.01    |
| Target Compounds            |       |      |          |        |       | Qvalue   |
| 31) Naphthalene             | 8.73  | 128  | 57162    | 6.45   | ng    | 98       |
| 37) 2-Methylnaphthalene     | 9.59  | 142  | 13511    | 2.20   | ng    | 96       |
| 48) Acenaphthylene          | 10.70 | 152  | 78186    | 8.22   | ng    | 98       |
| 49) Dimethylphthalate       | 10.56 | 163  | 30822    | 4.50   | ng    | # 99     |
| 51) Acenaphthene            | 10.91 | 154  | 15435    | 2.72   | ng    | 99       |
| 57) Fluorene                | 11.55 | 166  | 21105    | 3.14   | ng    | 99       |
| 70) Phenanthrene            | 12.74 | 178  | 266983   | 26.37  | ng    | 99       |
| 71) Anthracene              | 12.81 | 178  | 119988   | 12.08  | ng    | 99       |
| 74) Fluoranthene            | 14.22 | 202  | 545034   | 51.66  | ng    | 98       |
| 77) Pyrene                  | 14.22 | 202  | 545034   | 46.21  | ng    | 100      |
| 80) Benzo(a)anthracene      | 16.03 | 228  | 265496   | 23.69  | ng    | 95       |
| 82) Chrysene                | 16.03 | 228  | 264555   | 24.54  | ng    | 98       |
| 85) Indeno(1,2,3-cd)pyrene  | 19.07 | 276  | 247709   | 18.03  | ng    | 95       |
| 87) Benzo(b)fluoranthene    | 17.27 | 252  | 582019   | 47.63  | ng    | 99       |
| 88) Benzo(k)fluoranthene    | 17.27 | 252  | 582019   | 49.20  | ng    | # 96     |
| 89) Benzo(a)pyrene          | 17.65 | 252  | 345568   | 30.71  | ng    | # 98     |
| 91) Benzo(g,h,i)perylene    | 19.47 | 276  | 237091   | 19.78  | ng    | # 95     |

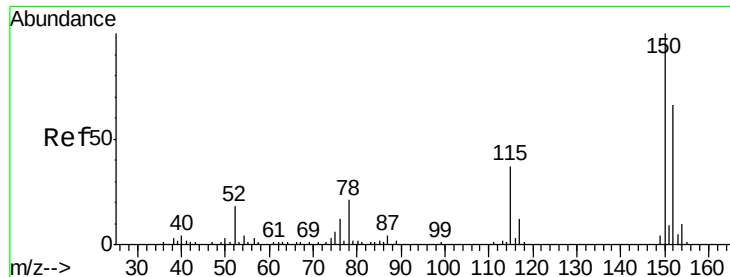
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.13 min Scan# 520

Delta R.T. -0.00 min

Lab File: BF079362.D

Acq: 20 May 2015 3:03

Instrument :

BNA\_F

ClientSampleId :

SB-01

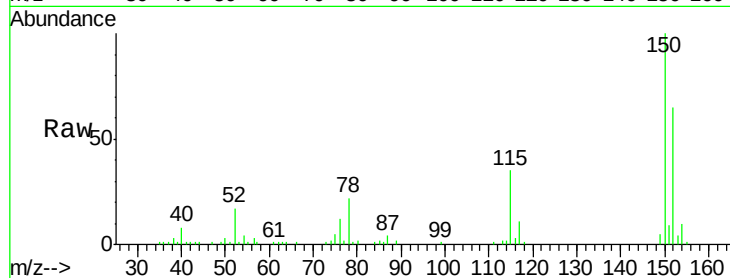
Tgt Ion:152 Resp: 45130

Ion Ratio Lower Upper

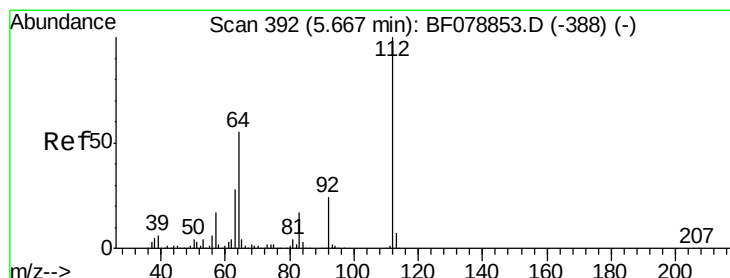
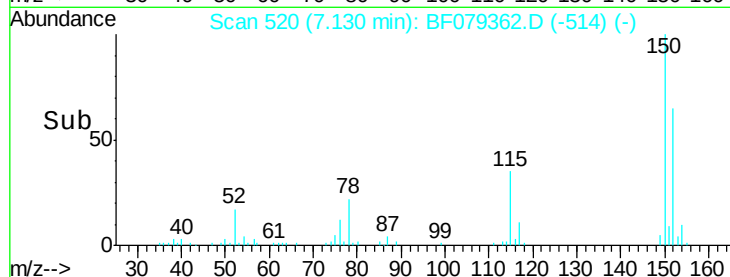
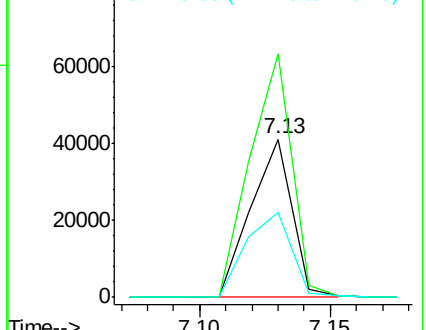
152 100

150 153.6 123.8 185.8

115 53.5 49.4 74.0



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: 98.20 ng

RT: 5.42 min Scan# 370

Delta R.T. -0.00 min

Lab File: BF079362.D

Acq: 20 May 2015 3:03

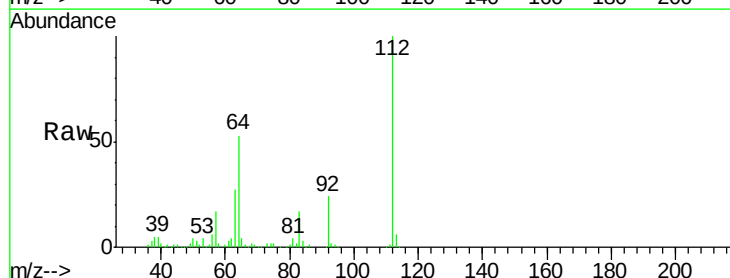
Tgt Ion:112 Resp: 257468

Ion Ratio Lower Upper

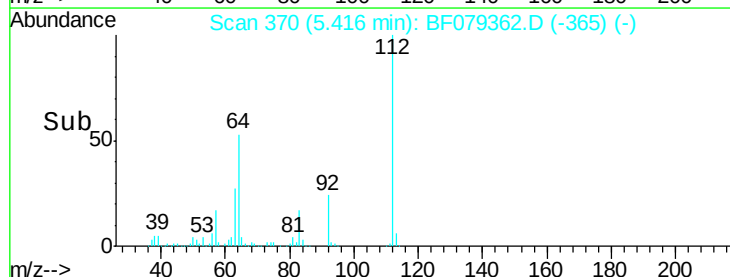
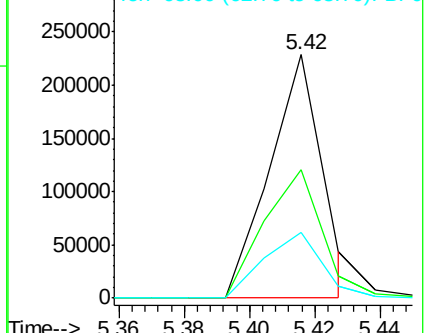
112 100

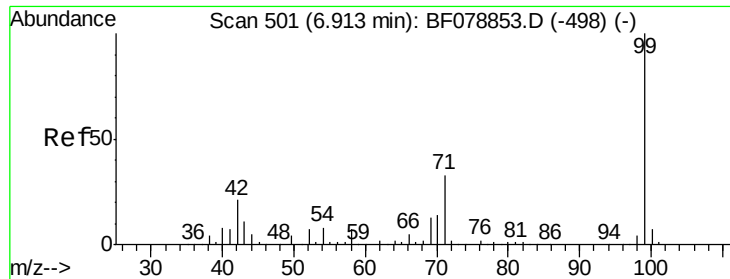
64 52.8 44.2 66.2

63 26.8 22.7 34.1



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: 100.58 ng

RT: 6.70 min Scan# 482

Delta R.T. -0.01 min

Lab File: BF079362.D

Acq: 20 May 2015 3:03

Instrument :

BNA\_F

ClientSampleId :

SB-01

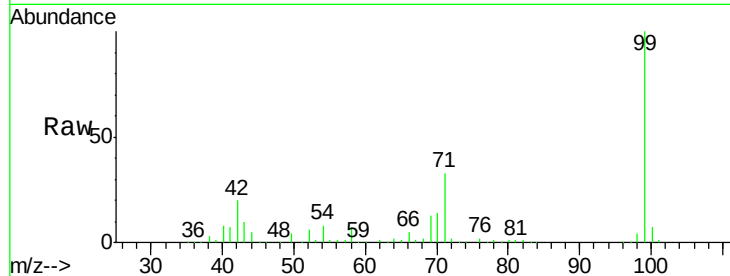
Tgt Ion: 99 Resp: 348563

Ion Ratio Lower Upper

99 100

42 20.0 17.1 25.7

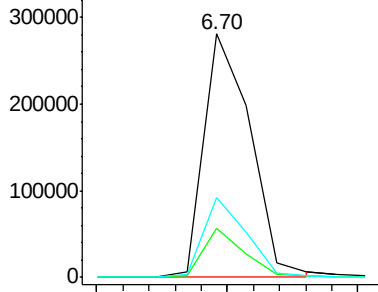
71 32.7 26.3 39.5



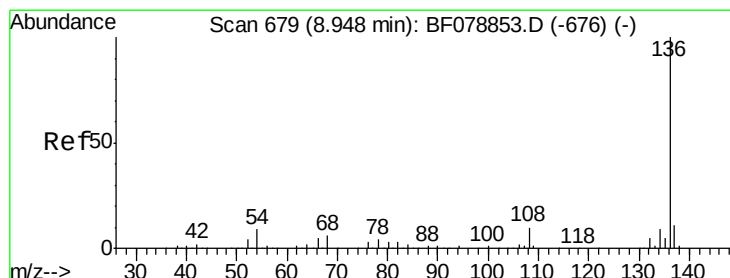
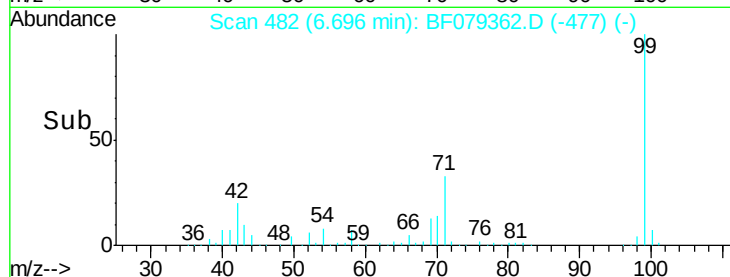
Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



Time--> 6.65 6.70 6.75



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.71 min Scan# 658

Delta R.T. -0.00 min

Lab File: BF079362.D

Acq: 20 May 2015 3:03

Tgt Ion: 136 Resp: 185912

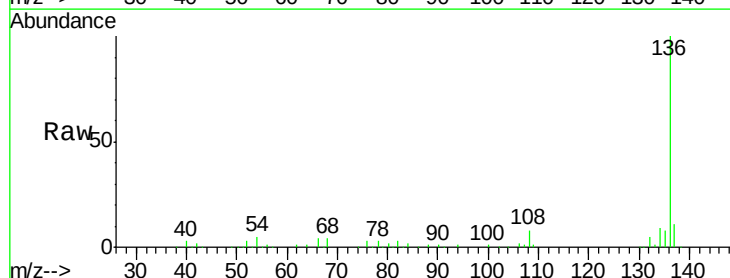
Ion Ratio Lower Upper

136 100

137 10.6 8.8 13.2

54 5.2 6.9 10.3#

68 4.3 4.9 7.3#

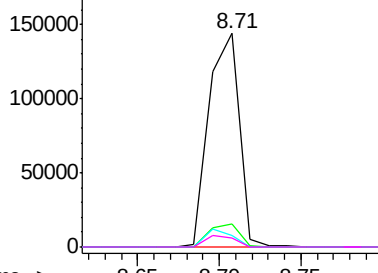


Abundance Ion 136.00 (135.70 to 136.70): E

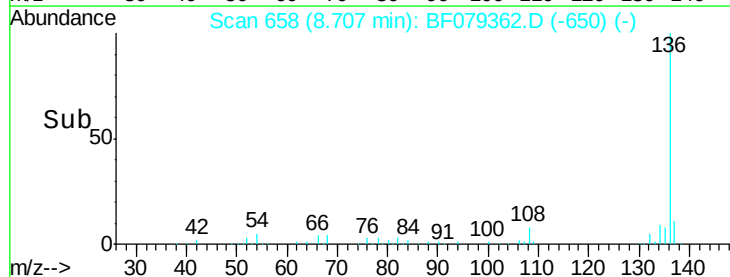
Ion 137.00 (136.70 to 137.70): E

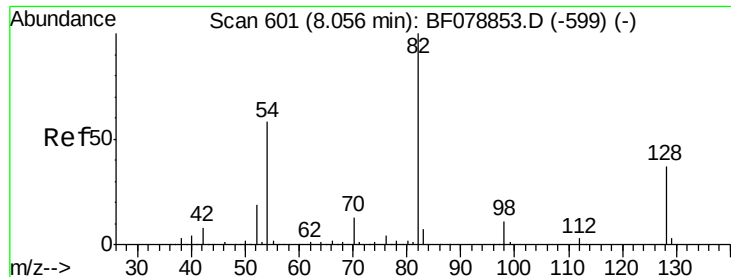
Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



Time--> 8.65 8.70 8.75





#23

Nitrobenzene-d5

Concen: 61.95 ng

RT: 7.82 min Scan# 580

Delta R.T. -0.01 min

Lab File: BF079362.D

Acq: 20 May 2015 3:03

Instrument :

BNA\_F

ClientSampleId :

SB-01

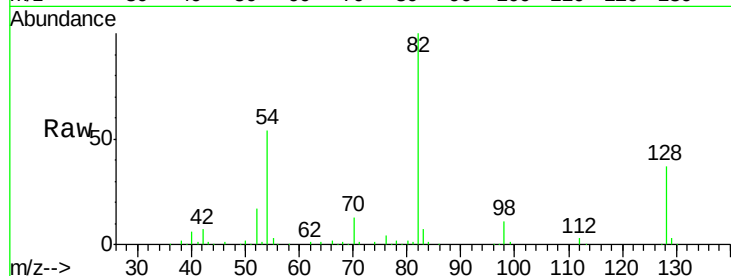
Tgt Ion: 82 Resp: 200411

Ion Ratio Lower Upper

82 100

128 37.2 29.7 44.5

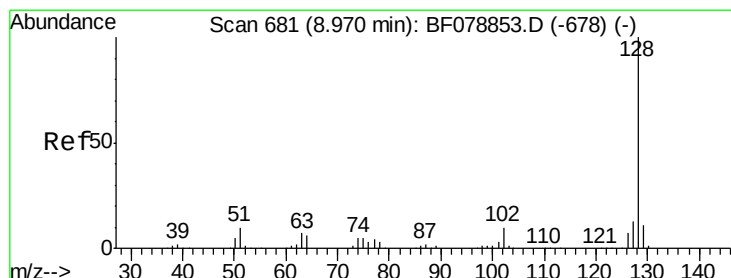
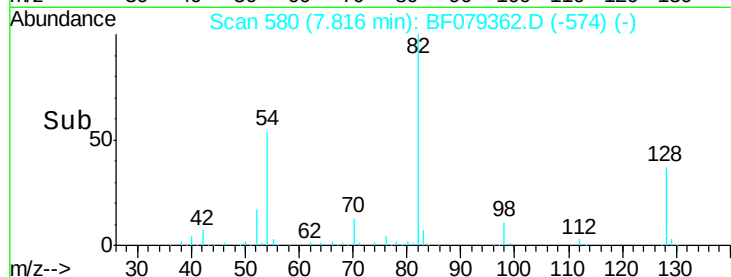
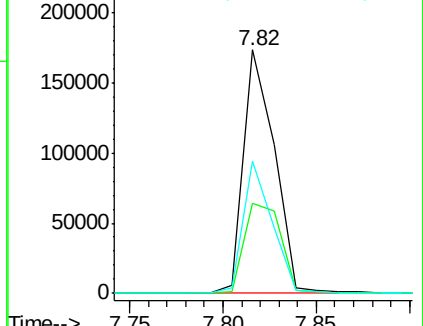
54 54.5 46.2 69.4



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



#31

Naphthalene

Concen: 6.45 ng

RT: 8.73 min Scan# 660

Delta R.T. -0.00 min

Lab File: BF079362.D

Acq: 20 May 2015 3:03

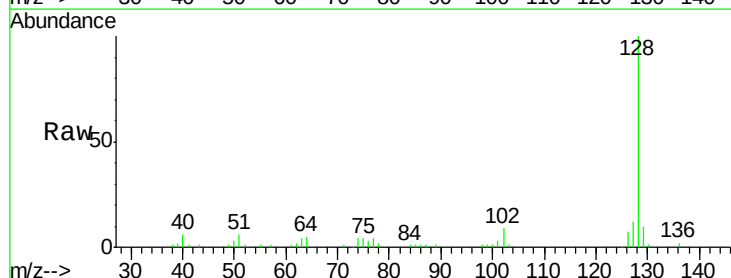
Tgt Ion: 128 Resp: 57162

Ion Ratio Lower Upper

128 100

129 10.4 9.2 13.8

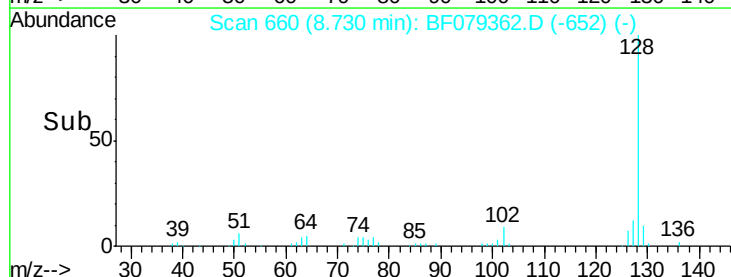
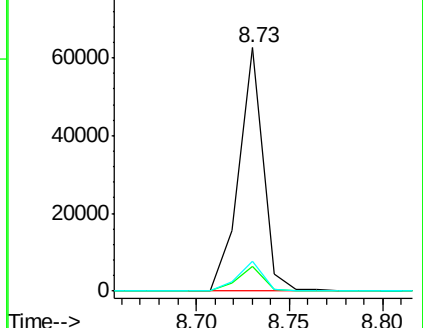
127 12.2 10.3 15.5

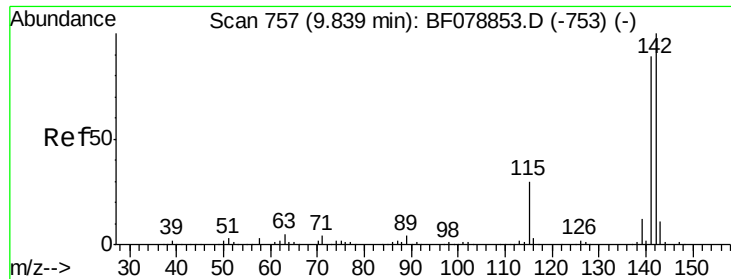


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

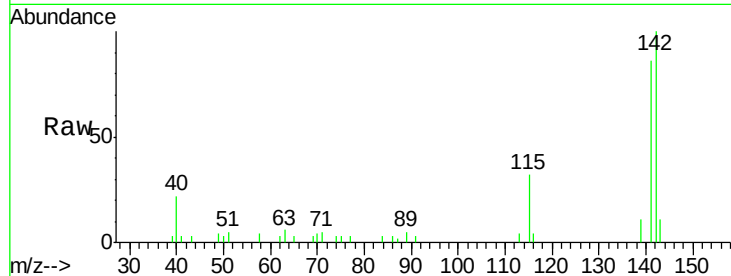




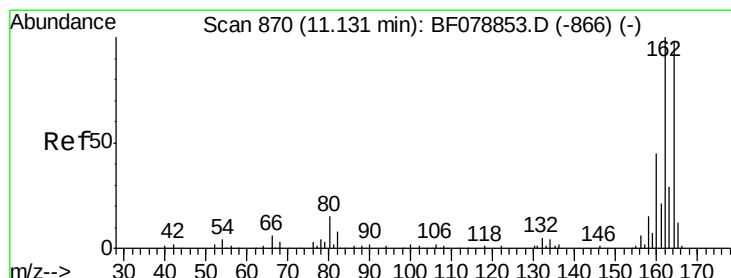
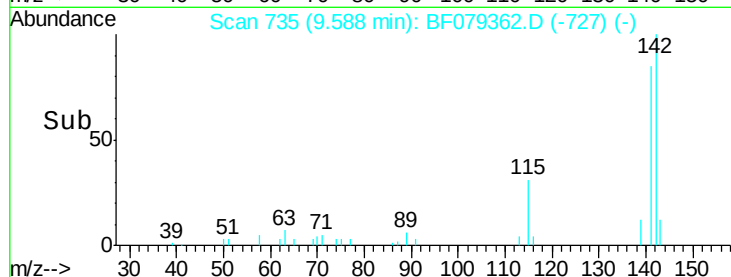
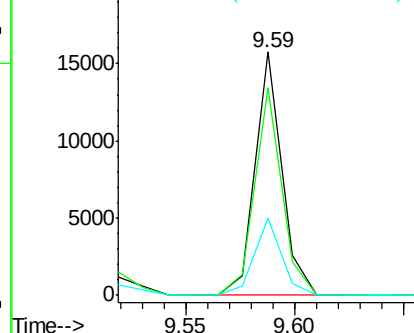
#37  
 2-Methylnaphthalene  
 Concen: 2.20 ng  
 RT: 9.59 min Scan# 735  
 Delta R.T. -0.00 min  
 Lab File: BF079362.D  
 Acq: 20 May 2015 3:03

Instrument :  
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 ClientSampleId :  
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Tgt Ion:142 Resp: 13511  
 Ion Ratio Lower Upper  
 142 100  
 141 85.6 71.6 107.4  
 115 31.7 24.2 36.4

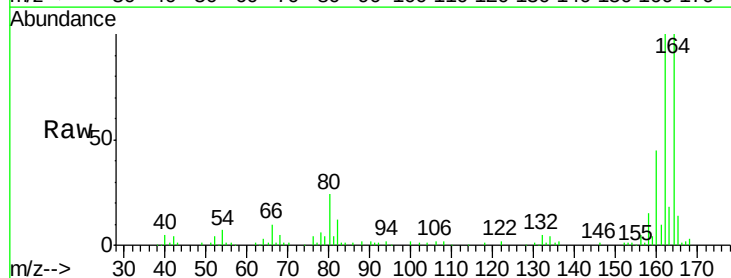


Abundance Ion 142.00 (141.70 to 142.70): E  
 Ion 141.00 (140.70 to 141.70): E  
 Ion 115.00 (114.70 to 115.70): E

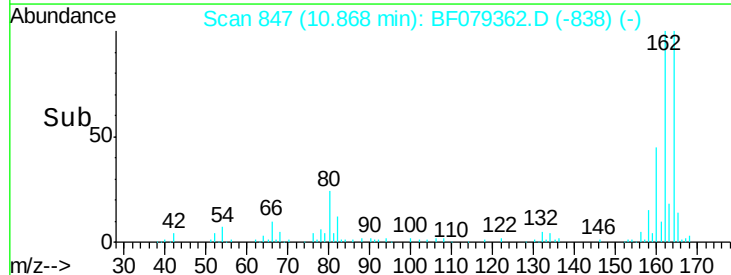
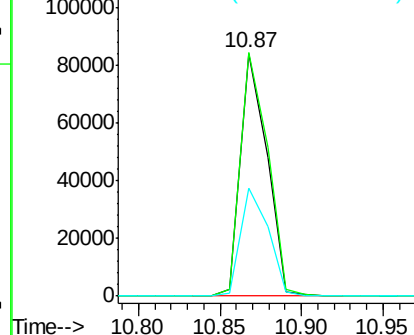


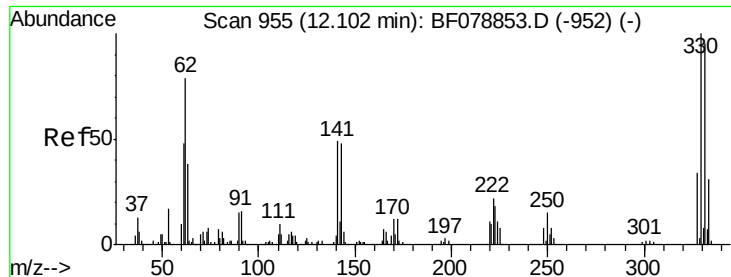
#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 10.87 min Scan# 847  
 Delta R.T. -0.01 min  
 Lab File: BF079362.D  
 Acq: 20 May 2015 3:03

Tgt Ion:164 Resp: 93416  
 Ion Ratio Lower Upper  
 164 100  
 162 100.5 81.4 122.0  
 160 44.8 36.6 54.8



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

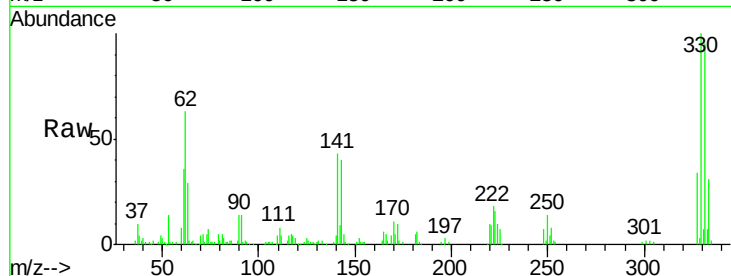




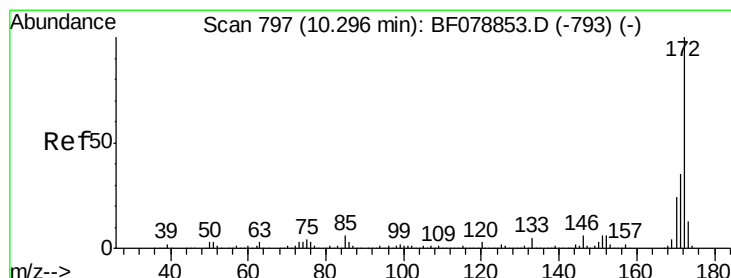
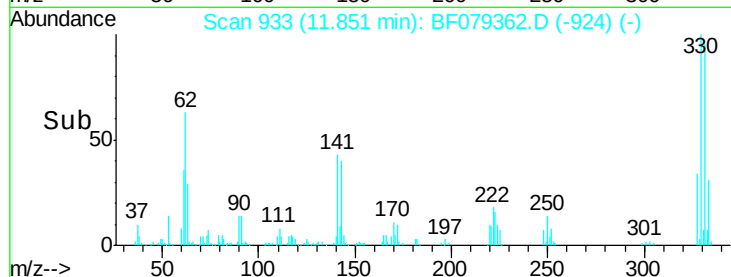
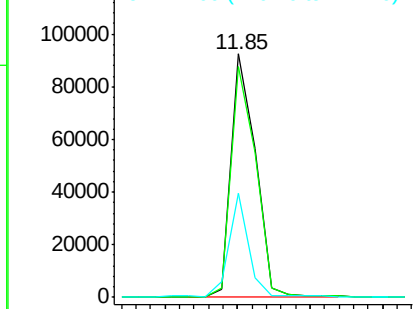
#41  
 2,4,6-Tribromophenol  
 Concen: 107.89 ng  
 RT: 11.85 min Scan# 933  
 Delta R.T. -0.01 min  
 Lab File: BF079362.D  
 Acq: 20 May 2015 3:03

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Tgt Ion:330 Resp: 109037  
 Ion Ratio Lower Upper  
 330 100  
 332 96.4 76.9 115.3  
 141 35.5 27.8 41.8

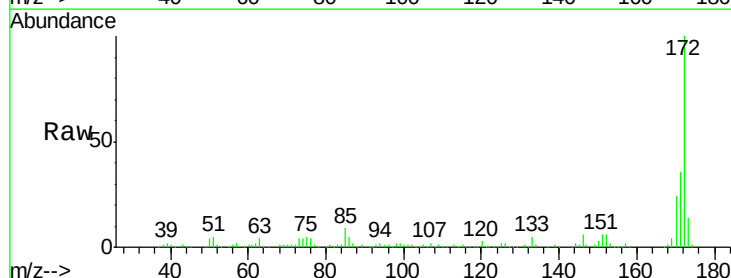


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

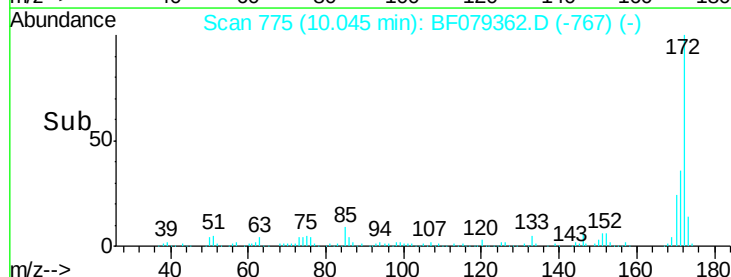
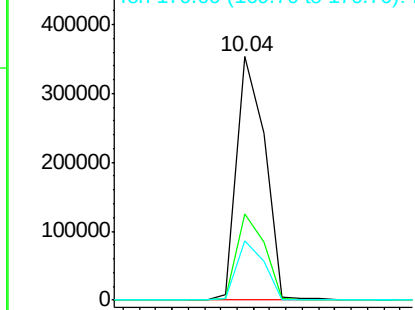


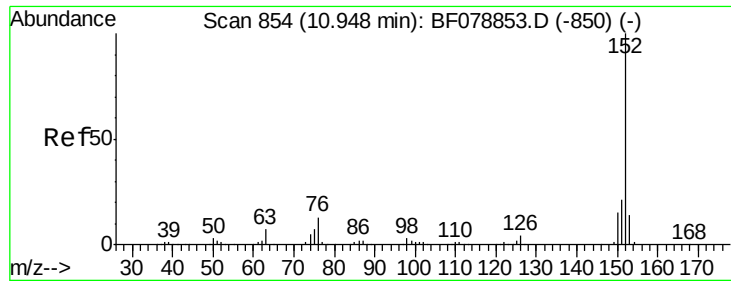
#44  
 2-Fluorobiphenyl  
 Concen: 62.84 ng  
 RT: 10.04 min Scan# 775  
 Delta R.T. -0.01 min  
 Lab File: BF079362.D  
 Acq: 20 May 2015 3:03

Tgt Ion:172 Resp: 421366  
 Ion Ratio Lower Upper  
 172 100  
 171 35.6 28.3 42.5  
 170 24.3 19.4 29.2



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





#48

Acenaphthylene

Concen: 8.22 ng

RT: 10.70 min Scan# 832

Delta R.T. -0.01 min

Lab File: BF079362.D

Acq: 20 May 2015 3:03

Instrument :

BNA\_F

ClientSampleId :

SB-01

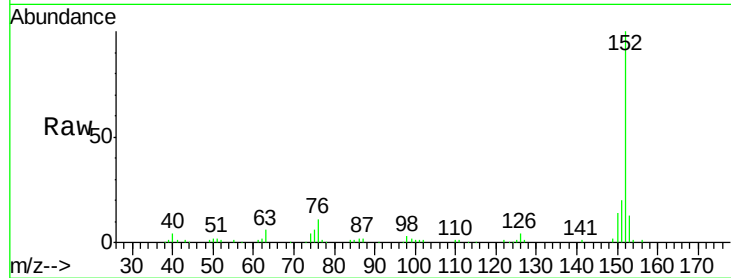
Tgt Ion:152 Resp: 78186

Ion Ratio Lower Upper

152 100

151 19.7 16.6 24.8

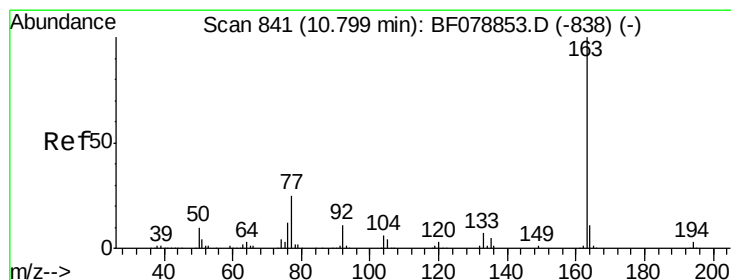
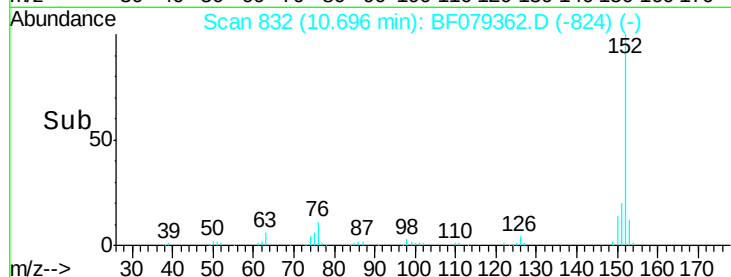
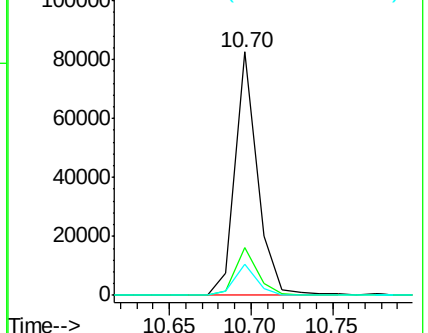
153 12.7 11.0 16.6



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#49

Dimethylphthalate

Concen: 4.50 ng

RT: 10.56 min Scan# 820

Delta R.T. -0.01 min

Lab File: BF079362.D

Acq: 20 May 2015 3:03

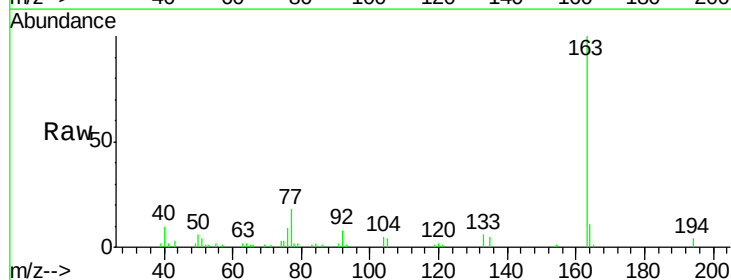
Tgt Ion:163 Resp: 30822

Ion Ratio Lower Upper

163 100

194 3.6 2.4 3.6#

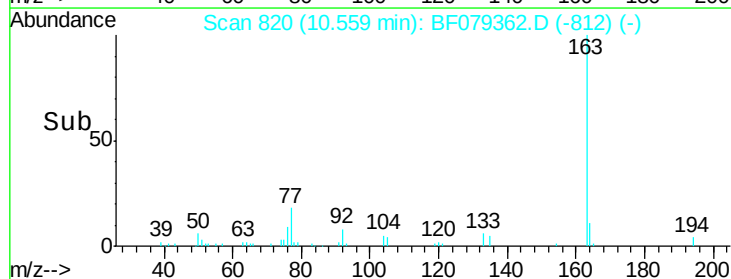
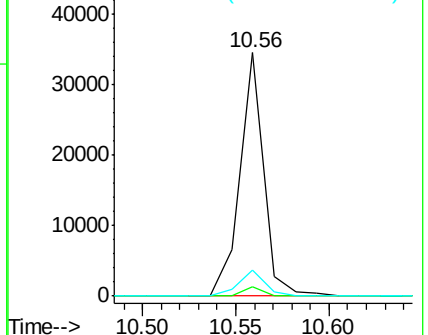
164 10.5 8.6 12.8



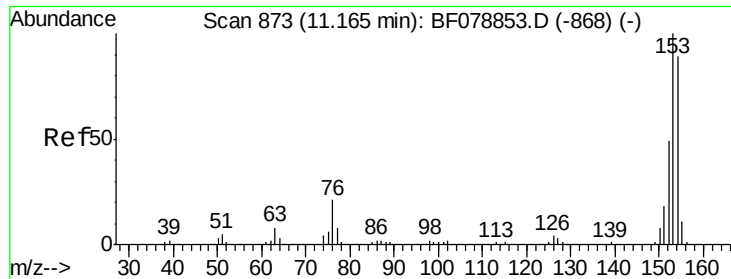
Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E







#51

Acenaphthene

Concen: 2.72 ng

RT: 10.91 min Scan# 851

Delta R.T. -0.00 min

Lab File: BF079362.D

Acq: 20 May 2015 3:03

Instrument :

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ClientSampleId :

SB-01

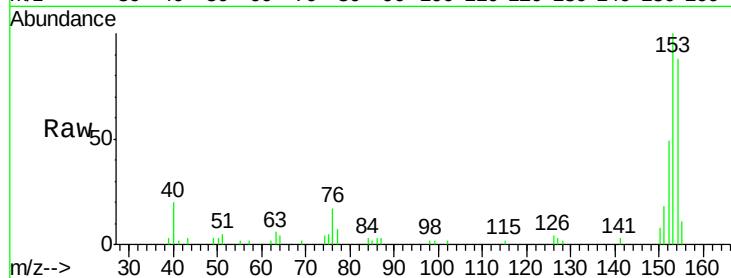
Tgt Ion:154 Resp: 15435

Ion Ratio Lower Upper

154 100

153 114.0 90.2 135.2

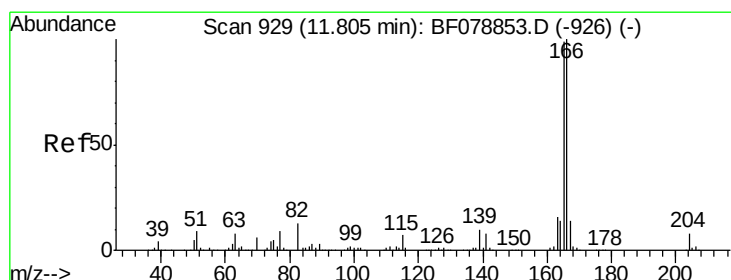
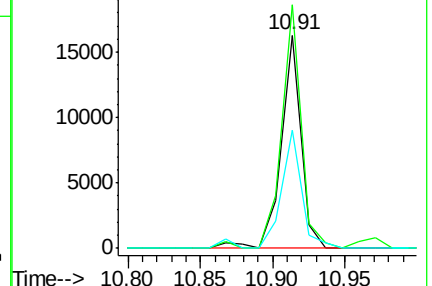
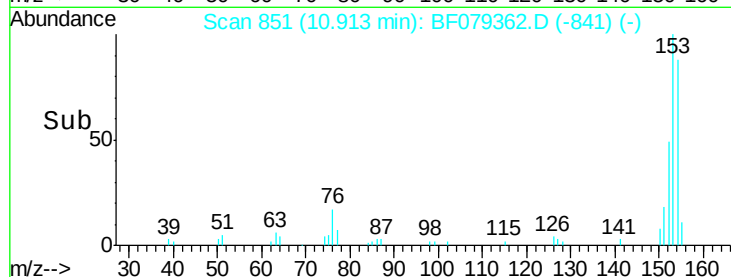
152 55.6 43.8 65.8



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



#57

Fluorene

Concen: 3.14 ng

RT: 11.55 min Scan# 907

Delta R.T. -0.00 min

Lab File: BF079362.D

Acq: 20 May 2015 3:03

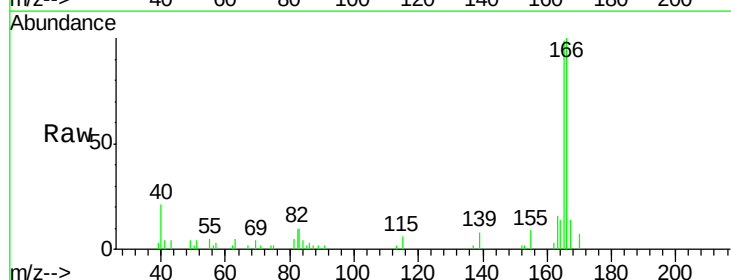
Tgt Ion:166 Resp: 21105

Ion Ratio Lower Upper

166 100

165 98.5 79.5 119.3

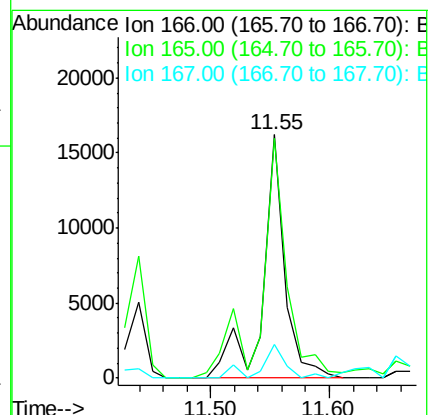
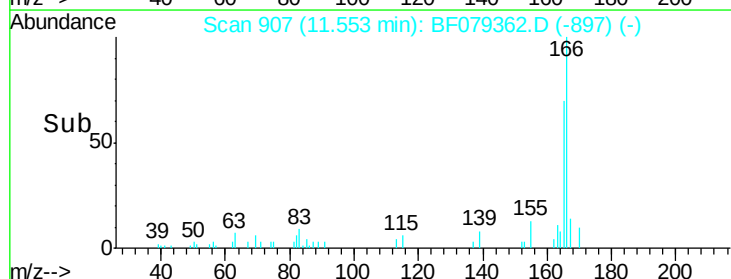
167 13.8 11.0 16.6

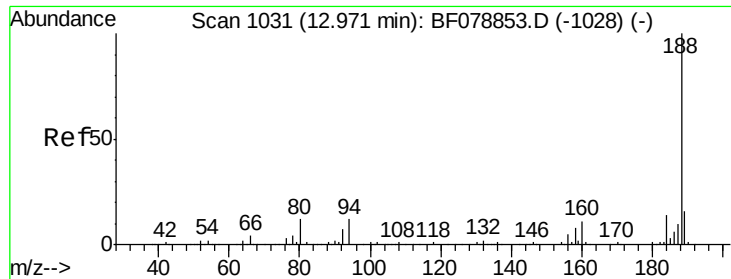


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

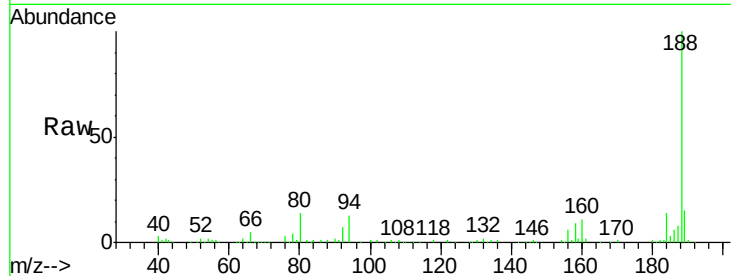




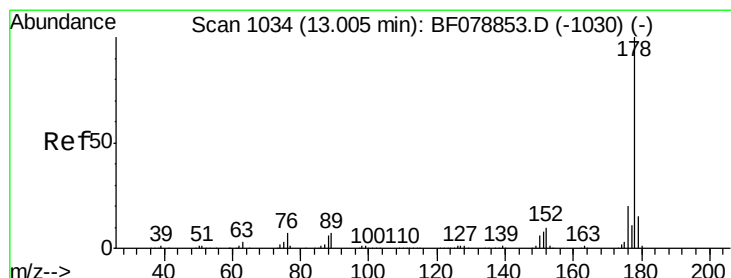
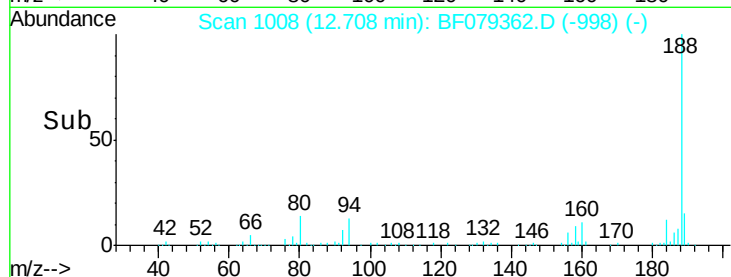
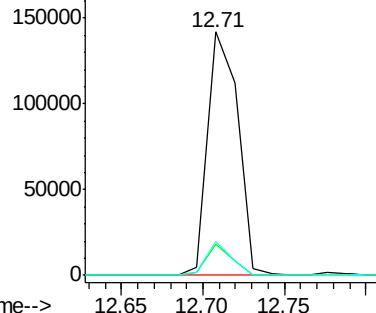
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 12.71 min Scan# 1008  
Delta R.T. -0.01 min  
Lab File: BF079362.D  
Acq: 20 May 2015 3:03

Instrument :  
BNA\_F  
ClientSampleId :  
SB-01

Tgt Ion:188 Resp: 181002  
Ion Ratio Lower Upper  
188 100  
94 12.9 9.4 14.0  
80 13.9 9.8 14.6

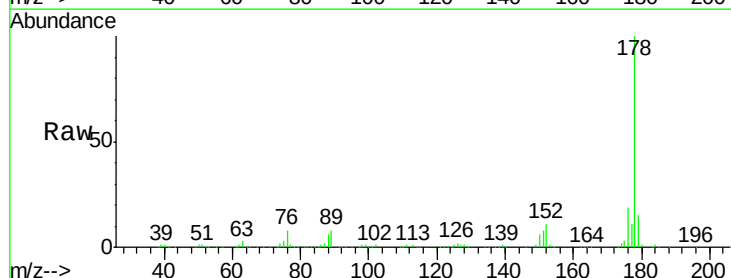


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF0  
Ion 80.00 (79.70 to 80.70): BF0

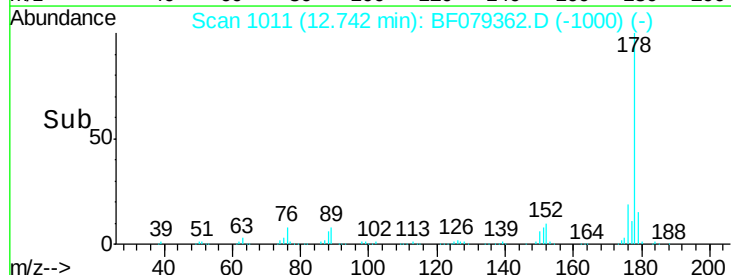
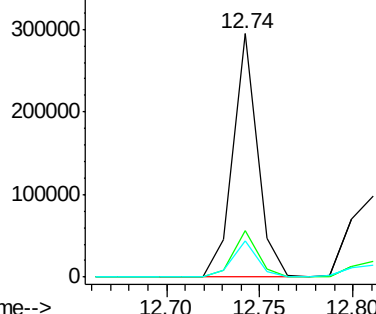


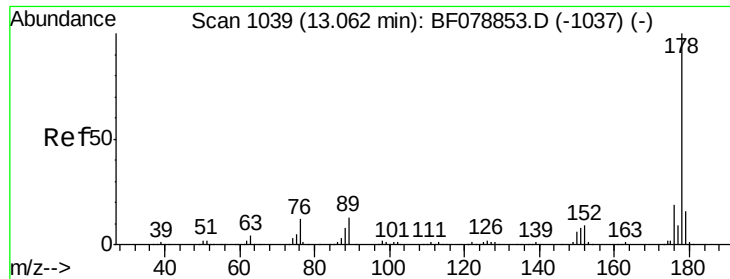
#70  
Phenanthrene  
Concen: 26.37 ng  
RT: 12.74 min Scan# 1011  
Delta R.T. -0.00 min  
Lab File: BF079362.D  
Acq: 20 May 2015 3:03

Tgt Ion:178 Resp: 266983  
Ion Ratio Lower Upper  
178 100  
176 19.3 15.9 23.9  
179 15.1 12.2 18.4



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: 12.08 ng

RT: 12.81 min Scan# 1017

Delta R.T. -0.00 min

Lab File: BF079362.D

Acq: 20 May 2015 3:03

Instrument :

BNA\_F

ClientSampleId :

SB-01

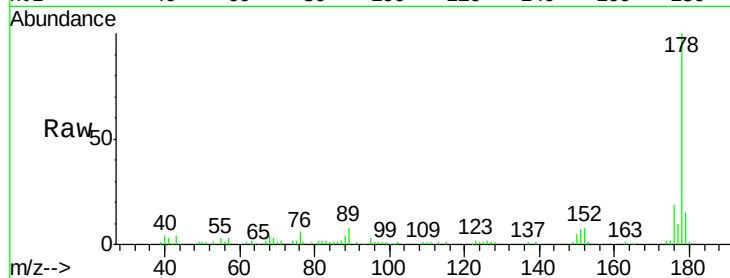
Tgt Ion:178 Resp: 119988

Ion Ratio Lower Upper

178 100

176 19.0 15.3 22.9

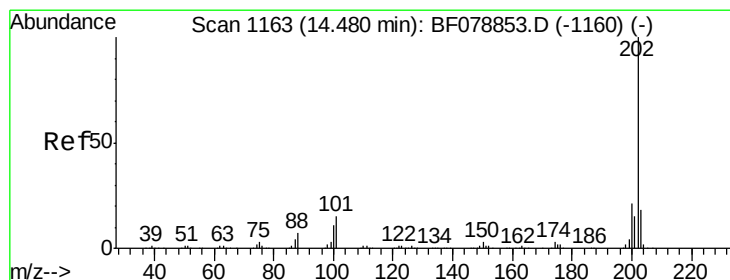
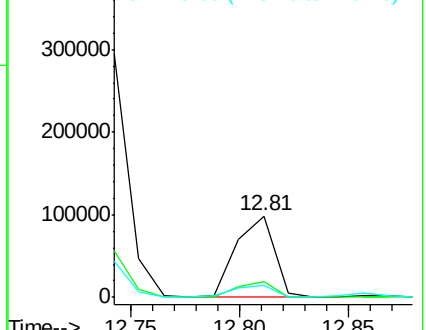
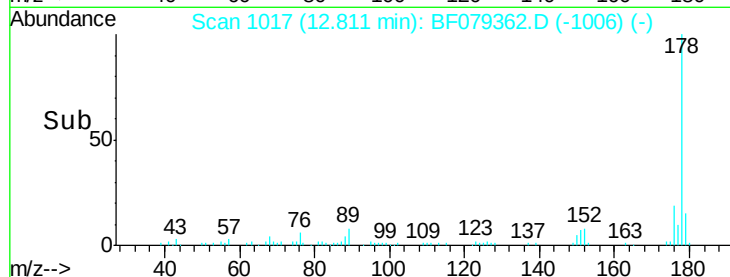
179 14.7 12.6 19.0



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#74

Fluoranthene

Concen: 51.66 ng

RT: 14.22 min Scan# 1140

Delta R.T. -0.01 min

Lab File: BF079362.D

Acq: 20 May 2015 3:03

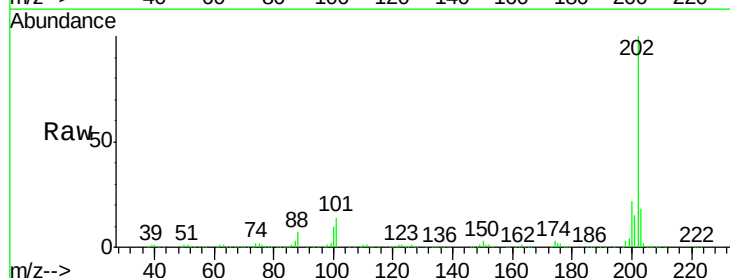
Tgt Ion:202 Resp: 545034

Ion Ratio Lower Upper

202 100

101 13.9 0.0 34.7

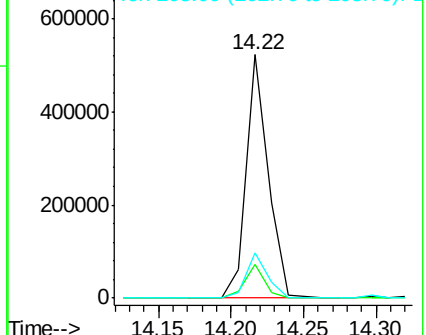
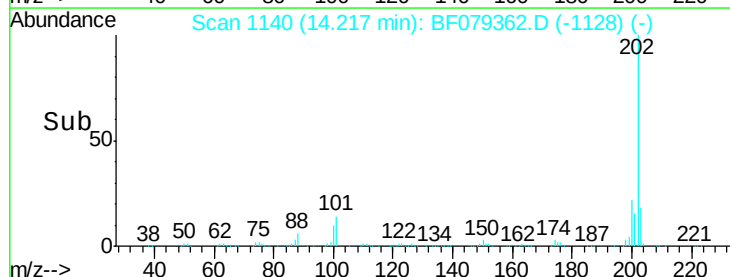
203 18.4 0.0 37.9

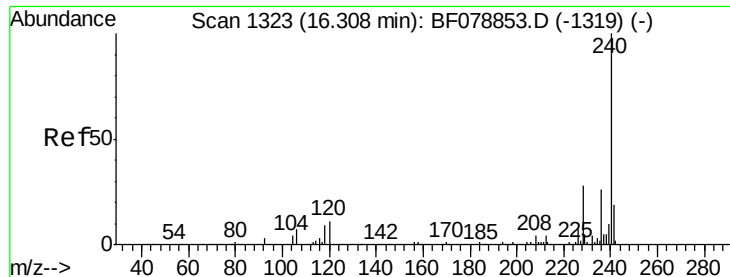


Abundance Ion 202.00 (201.70 to 202.70): E

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: 16.00 min Scan# 1296

Delta R.T. -0.02 min

Lab File: BF079362.D

Acq: 20 May 2015 3:03

Instrument :

BNA\_F

ClientSampleId :

SB-01

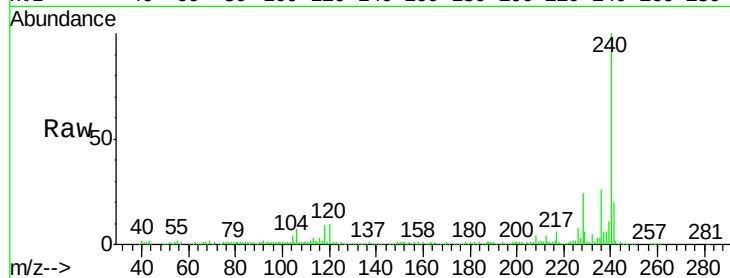
Tgt Ion:240 Resp: 204689

Ion Ratio Lower Upper

240 100

120 10.3 8.6 12.8

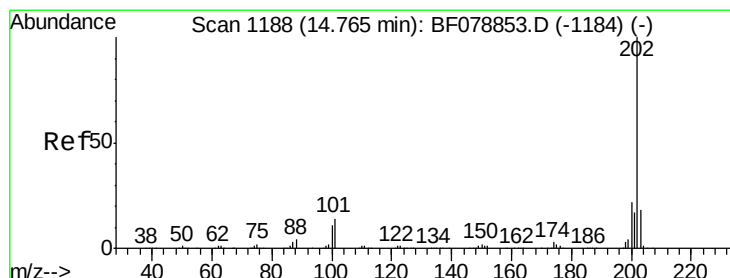
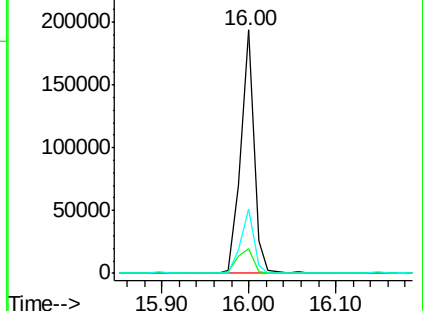
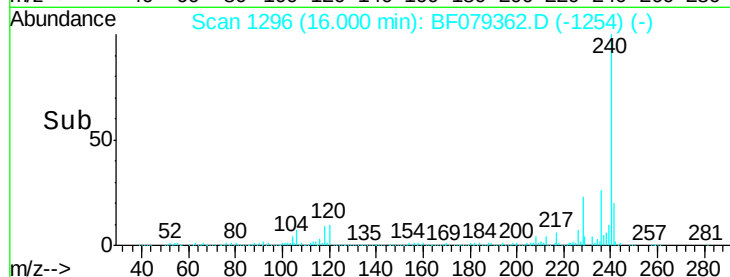
236 26.3 21.0 31.6



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 46.21 ng

RT: 14.22 min Scan# 1140

Delta R.T. -0.01 min

Lab File: BF079362.D

Acq: 20 May 2015 3:03

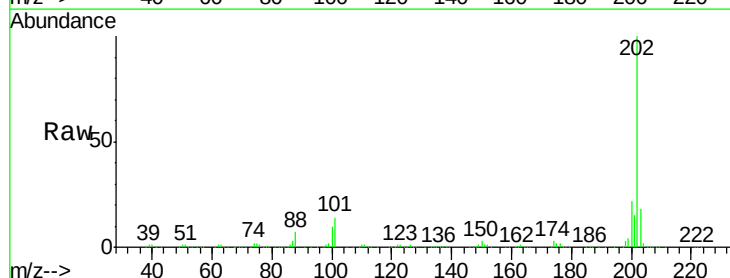
Tgt Ion:202 Resp: 545034

Ion Ratio Lower Upper

202 100

200 21.7 17.5 26.3

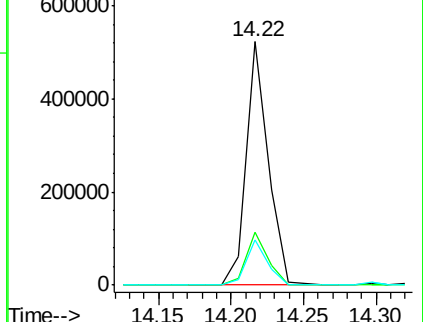
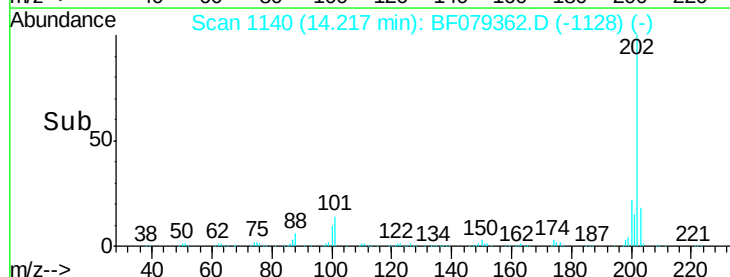
203 18.4 14.7 22.1

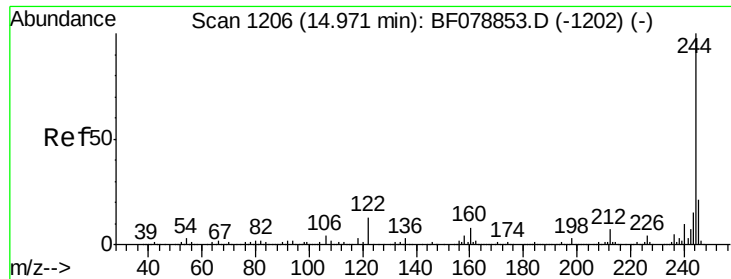


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 61.12 ng

RT: 14.71 min Scan# 1183

Delta R.T. -0.01 min

Lab File: BF079362.D

Acq: 20 May 2015 3:03

Instrument :

BNA\_F

ClientSampleId :

SB-01

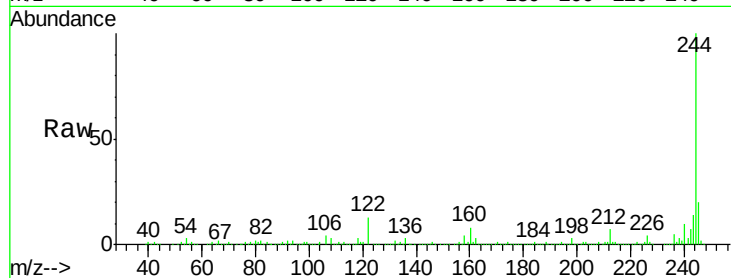
Tgt Ion:244 Resp: 522510

Ion Ratio Lower Upper

244 100

212 6.9 5.6 8.4

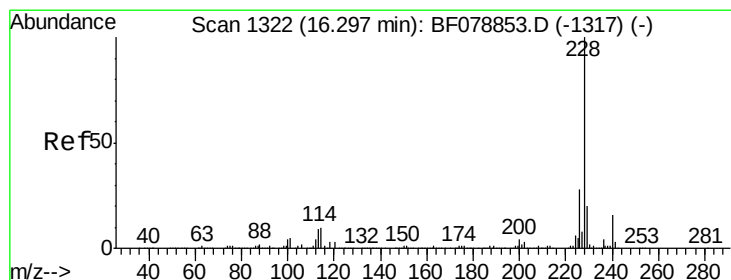
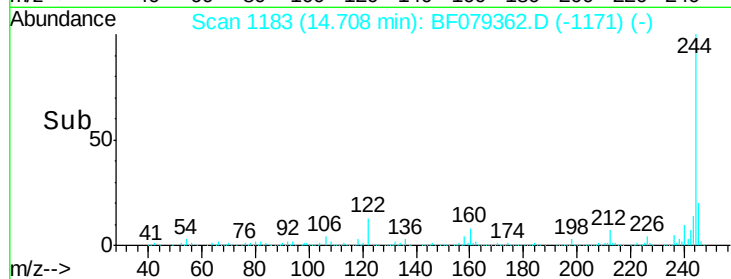
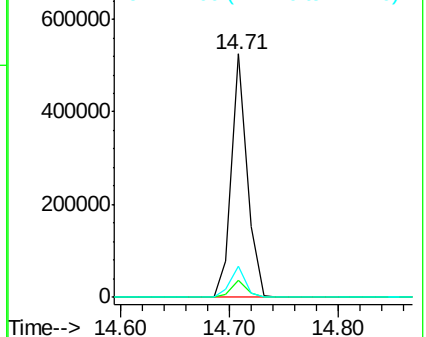
122 12.8 10.5 15.7



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: 23.69 ng

RT: 16.03 min Scan# 1299

Delta R.T. 0.02 min

Lab File: BF079362.D

Acq: 20 May 2015 3:03

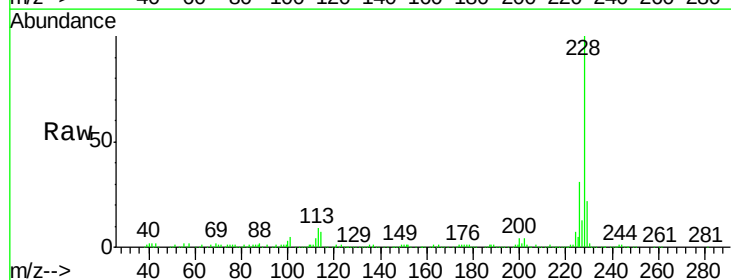
Tgt Ion:228 Resp: 265496

Ion Ratio Lower Upper

228 100

226 30.8 22.3 33.5

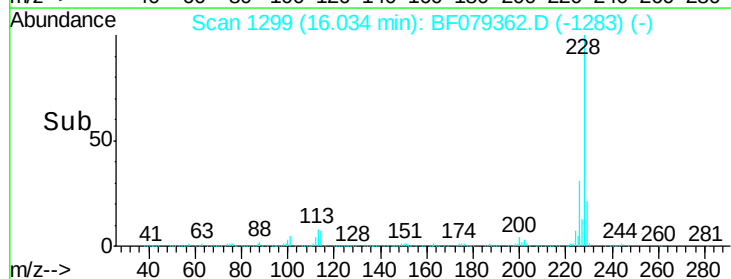
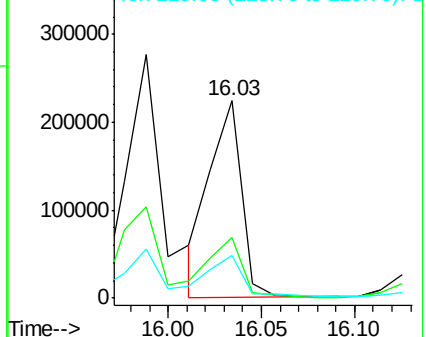
229 21.7 16.1 24.1

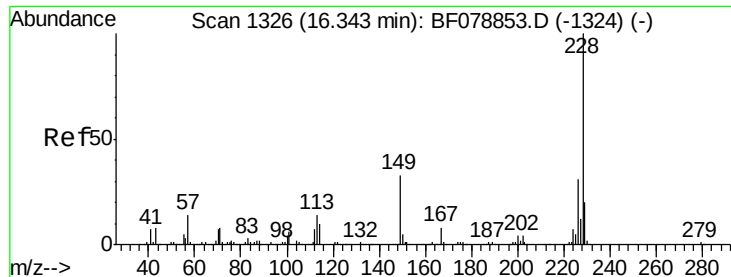


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 24.54 ng

RT: 16.03 min Scan# 1299

Delta R.T. -0.02 min

Lab File: BF079362.D

Acq: 20 May 2015 3:03

Instrument :

BNA\_F

ClientSampled :

SB-01

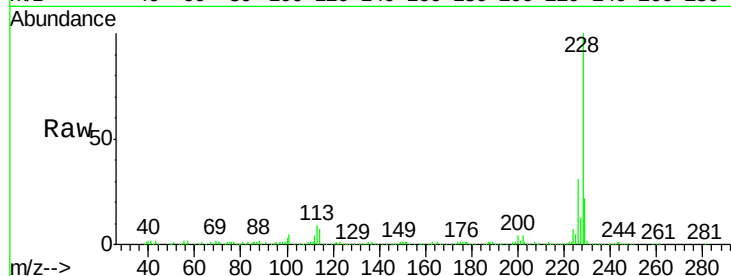
Tgt Ion:228 Resp: 264555

Ion Ratio Lower Upper

228 100

226 30.8 24.8 37.2

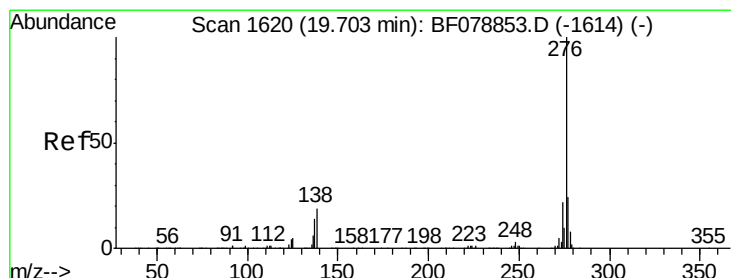
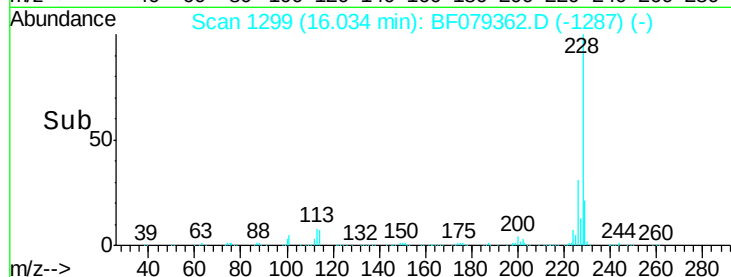
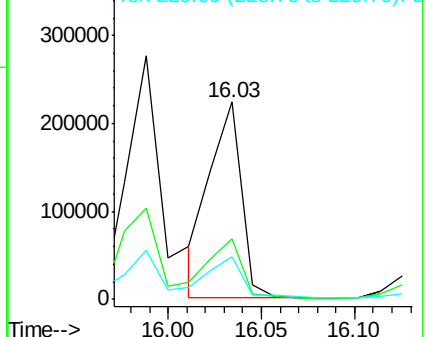
229 21.7 16.1 24.1



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: 18.03 ng

RT: 19.07 min Scan# 1565

Delta R.T. -0.14 min

Lab File: BF079362.D

Acq: 20 May 2015 3:03

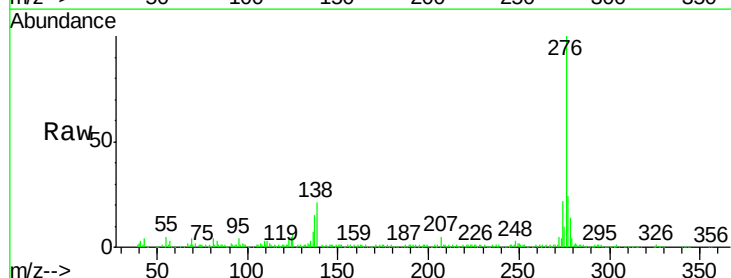
Tgt Ion:276 Resp: 247709

Ion Ratio Lower Upper

276 100

138 21.9 21.1 31.7

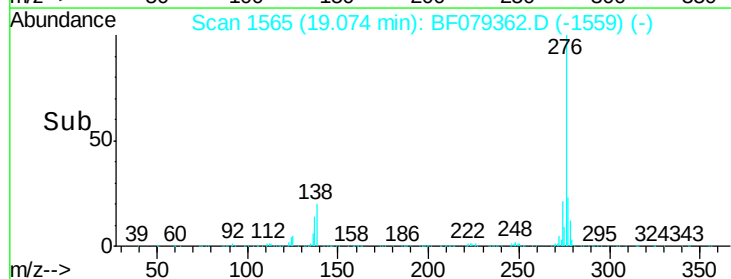
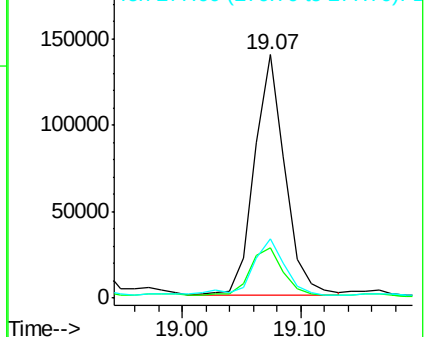
277 25.5 19.9 29.9

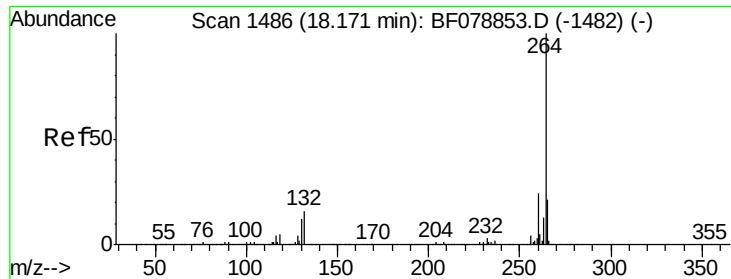


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



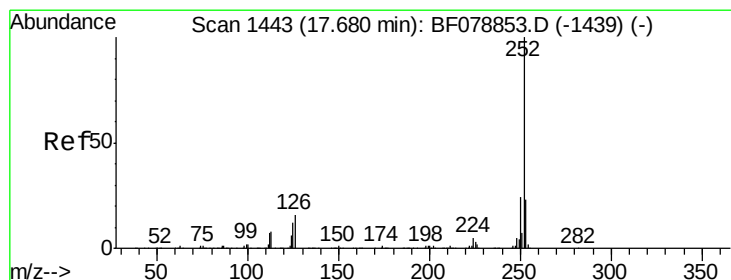
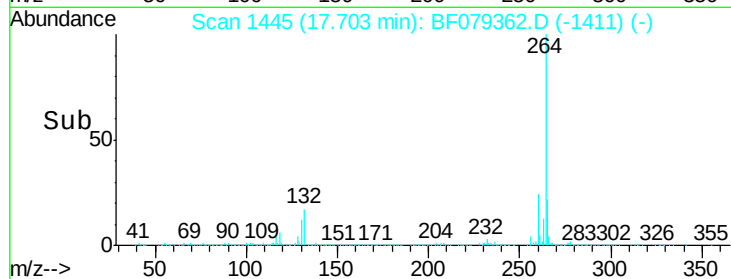
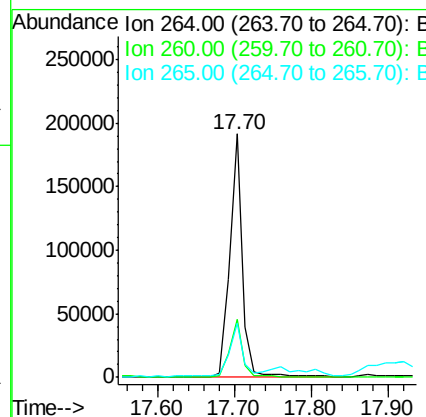
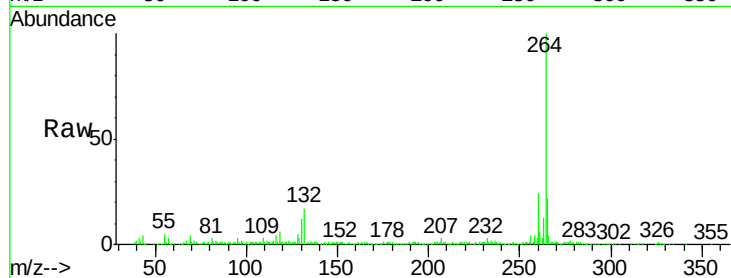


#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 17.70 min Scan# 1445  
Delta R.T. -0.11 min  
Lab File: BF079362.D  
Acq: 20 May 2015 3:03

Instrument :  
BNA\_F  
ClientSampleId :  
SB-01

Tgt Ion: 264 Resp: 223238  

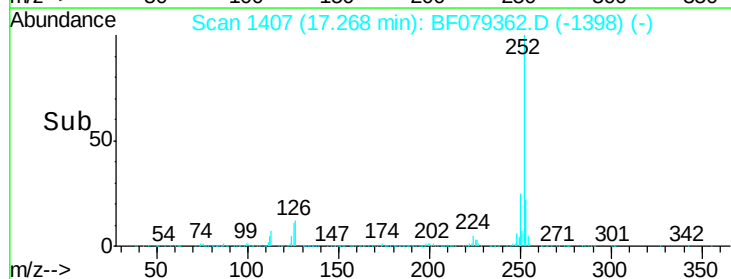
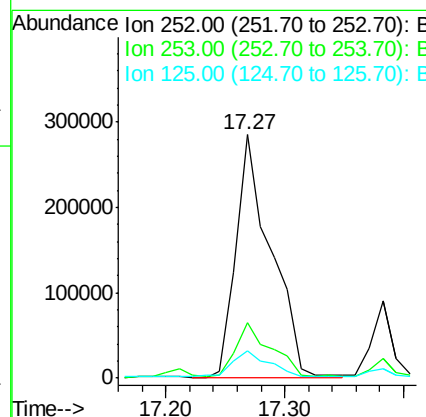
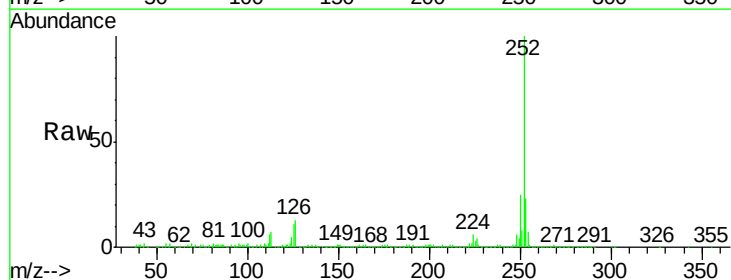
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 24.1  | 19.2  | 28.8  |
| 265 | 22.3  | 17.2  | 25.8  |

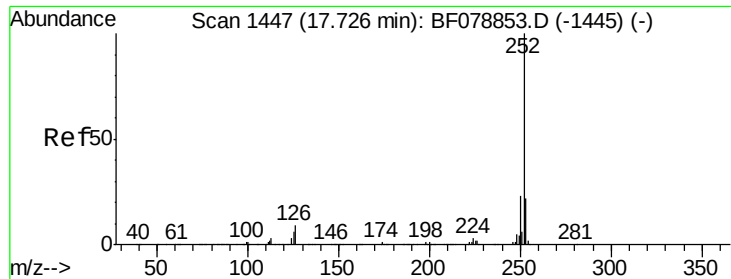


#87  
Benzo(b)fluoranthene  
Concen: 47.63 ng  
RT: 17.27 min Scan# 1407  
Delta R.T. -0.08 min  
Lab File: BF079362.D  
Acq: 20 May 2015 3:03

Tgt Ion: 252 Resp: 582019  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 22.8  | 18.1  | 27.1  |
| 125 | 11.2  | 9.4   | 14.2  |

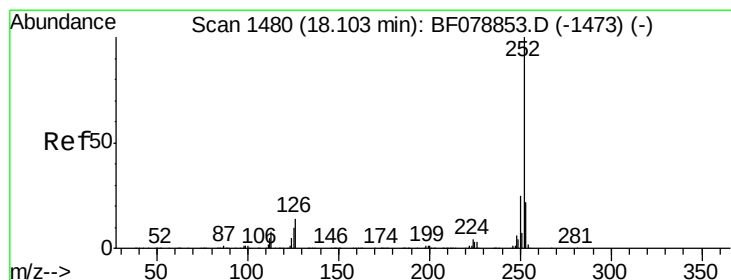
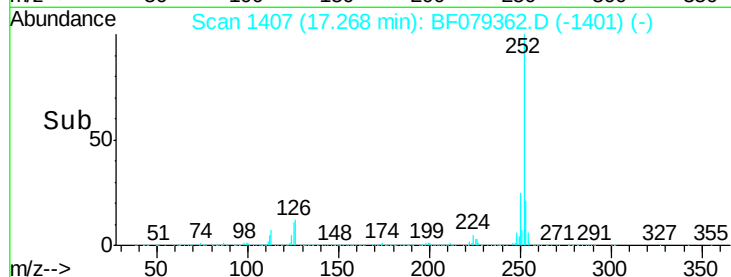
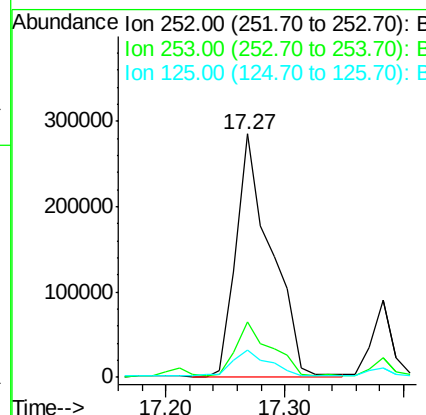
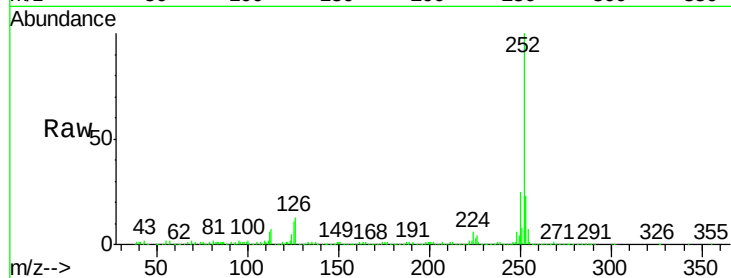




#88  
Benzo(k)fluoranthene  
Concen: 49.20 ng  
RT: 17.27 min Scan# 1407  
Delta R.T. -0.11 min  
Lab File: BF079362.D  
Acq: 20 May 2015 3:03

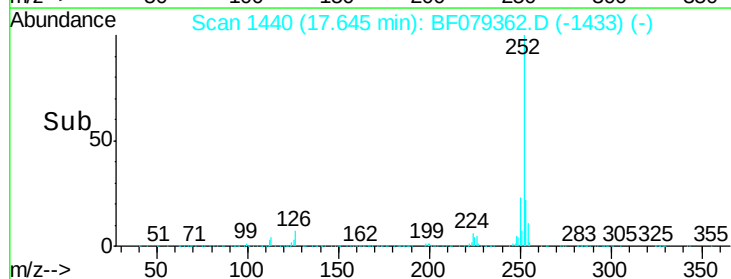
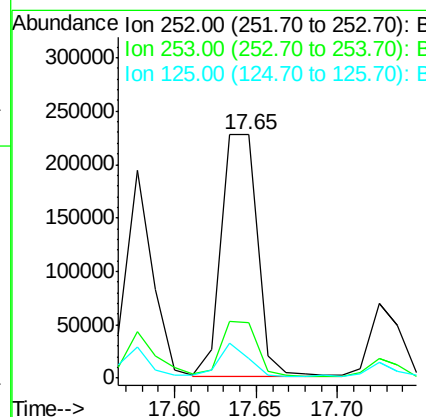
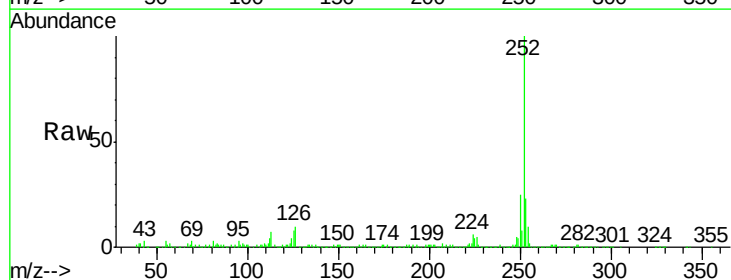
Instrument :  
BNA\_F  
ClientSampleId :  
SB-01

Tgt Ion:252 Resp: 582019  
Ion Ratio Lower Upper  
252 100  
253 22.8 17.4 26.0  
125 11.2 6.1 9.1#

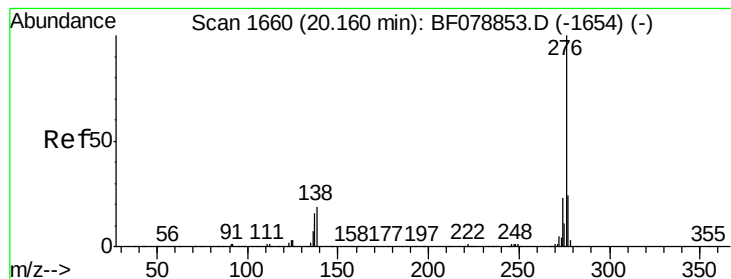


#89  
Benzo(a)pyrene  
Concen: 30.71 ng  
RT: 17.65 min Scan# 1440  
Delta R.T. -0.10 min  
Lab File: BF079362.D  
Acq: 20 May 2015 3:03

Tgt Ion:252 Resp: 345568  
Ion Ratio Lower Upper  
252 100  
253 22.5 18.0 27.0  
125 8.0 8.2 12.2#







#91

Benzo(g,h,i)perylene

Concen: 19.78 ng

RT: 19.47 min Scan# 1600

Delta R.T. -0.15 min

Lab File: BF079362.D

Acq: 20 May 2015 3:03

Instrument :

BNA\_F

ClientSampleId :

SB-01

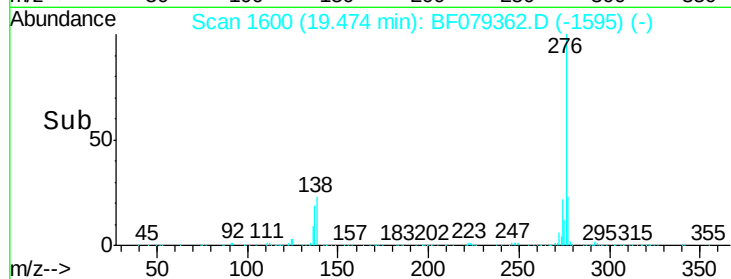
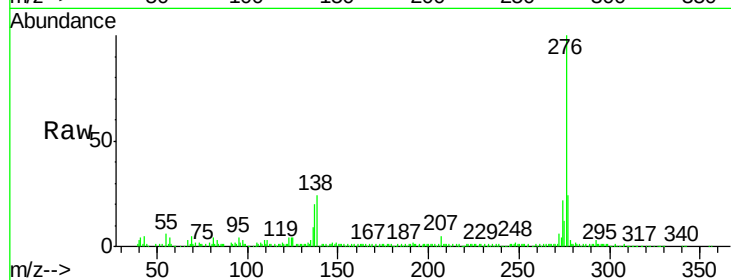
Tgt Ion: 276 Resp: 237091

Ion Ratio Lower Upper

276 100

277 24.3 18.8 28.2

138 23.6 15.2 22.8#



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

