

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM012716\  
 Data File : BM004133.D  
 Acq On : 27 Jan 2016 14:25  
 Operator : SJ/IZ  
 Sample : PB87989BSD  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 PB87989BSD

Quant Time: Jan 27 23:58:27 2016  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\8270-SIM-BM012216.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jan 22 14:46:41 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.67  | 152  | 21444    | 5.00 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.44 | 136  | 96838    | 5.00 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 14.31 | 164  | 58386    | 5.00 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 17.06 | 188  | 151832   | 5.00 | ng    | 0.00     |
| 26) Chrysene-d12          | 21.27 | 240  | 162730   | 5.00 | ng    | 0.00     |
| 35) Perylene-d12          | 23.51 | 264  | 143631   | 5.00 | ng    | 0.00     |

|                             |       |     |       |      |    |       |
|-----------------------------|-------|-----|-------|------|----|-------|
| System Monitoring Compounds |       |     |       |      |    |       |
| 4) 2-Fluorophenol           | 5.25  | 112 | 28412 | 6.35 | ng | -0.02 |
| 5) Phenol-d6                | 6.83  | 99  | 38563 | 7.14 | ng | -0.02 |
| 8) Nitrobenzene-d5          | 8.83  | 82  | 17446 | 4.11 | ng | 0.00  |
| 14) 2,4,6-Tribromophenol    | 15.82 | 330 | 15825 | 6.94 | ng | 0.00  |
| 15) 2-Fluorobiphenyl        | 12.93 | 172 | 69375 | 3.88 | ng | 0.00  |
| 29) Terphenyl-d14           | 19.71 | 244 | 87984 | 4.25 | ng | 0.00  |

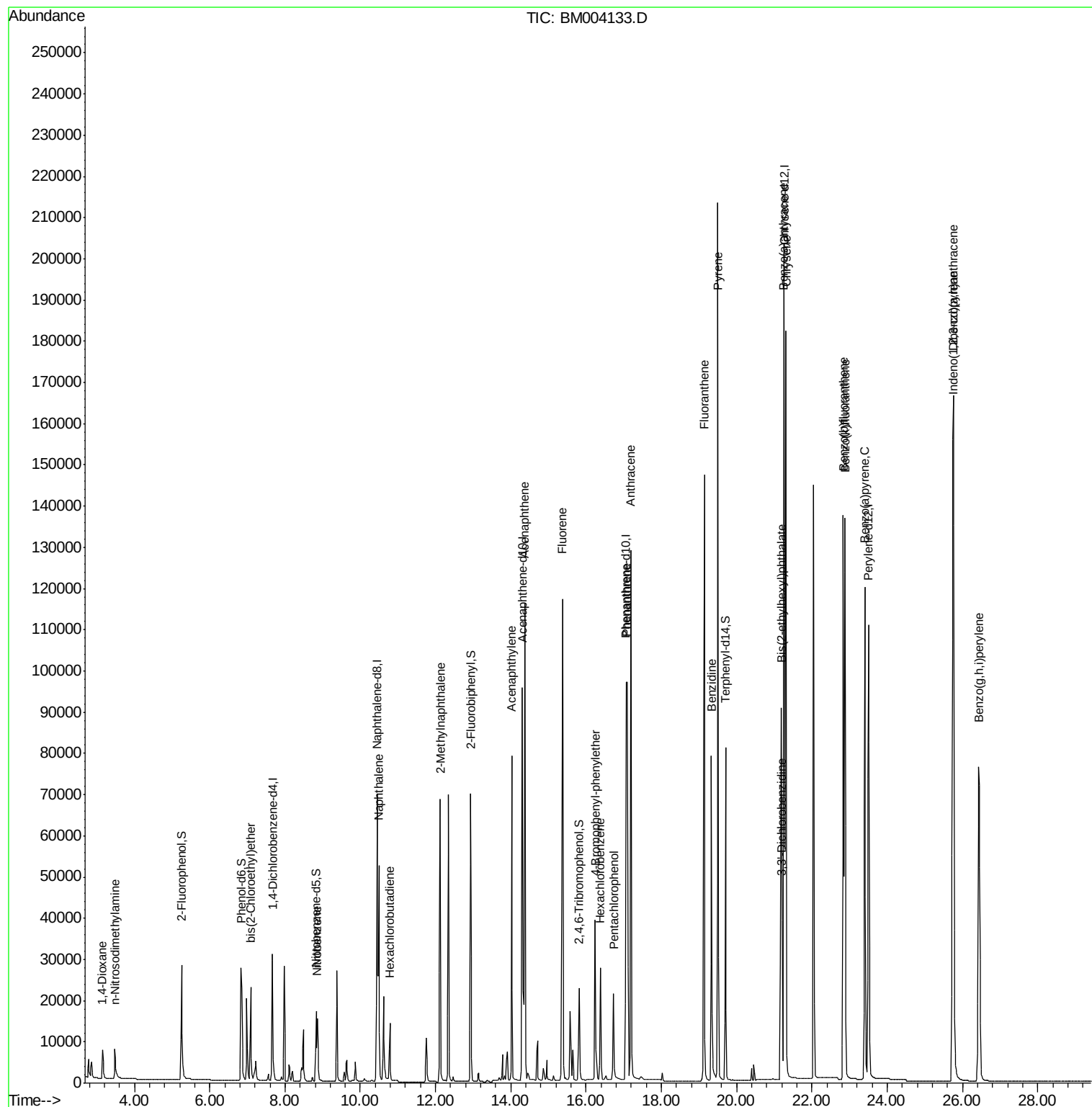
|                                |       |     |        |        |    |      |
|--------------------------------|-------|-----|--------|--------|----|------|
| Target Compounds               |       |     |        | Qvalue |    |      |
| 2) 1,4-Dioxane                 | 3.15  | 88  | 6283   | 3.22   | ng | 97   |
| 3) n-Nitrosodimethylamine      | 3.48  | 42  | 6842   | 3.58   | ng | 93   |
| 6) bis(2-Chloroethyl)ether     | 7.09  | 93  | 17776  | 3.55   | ng | 99   |
| 9) Nitrobenzene                | 8.86  | 77  | 18702  | 3.18   | ng | 99   |
| 10) Naphthalene                | 10.49 | 128 | 74707  | 3.31   | ng | 97   |
| 11) Hexachlorobutadiene        | 10.79 | 225 | 10762  | 3.09   | ng | 99   |
| 12) 2-Methylnaphthalene        | 12.12 | 142 | 56146  | 3.81   | ng | 96   |
| 16) Acenaphthylene             | 14.02 | 152 | 103931 | 4.12   | ng | 100  |
| 17) Acenaphthene               | 14.37 | 154 | 64929  | 3.40   | ng | 96   |
| 18) Fluorene                   | 15.37 | 166 | 85387  | 3.68   | ng | 99   |
| 20) 4-Bromophenyl-phenylether  | 16.24 | 248 | 22607  | 4.57   | ng | # 75 |
| 21) Hexachlorobenzene          | 16.37 | 284 | 22378  | 4.31   | ng | # 66 |
| 22) Pentachlorophenol          | 16.73 | 266 | 17705  | 7.83   | ng | 90   |
| 23) Phenanthrene               | 17.09 | 178 | 139481 | 4.75   | ng | 98   |
| 24) Anthracene                 | 17.19 | 178 | 160508 | 4.63   | ng | 99   |
| 25) Fluoranthene               | 19.14 | 202 | 175331 | 4.26   | ng | 100  |
| 27) Benzidine                  | 19.33 | 184 | 115287 | 7.66   | ng | 97   |
| 28) Pyrene                     | 19.50 | 202 | 197992 | 4.40   | ng | 100  |
| 30) Benzo(a)anthracene         | 21.25 | 228 | 216236 | 4.54   | ng | # 85 |
| 31) 3,3'-Dichlorobenzidine     | 21.21 | 252 | 50241  | 4.05   | ng | # 82 |
| 32) Chrysene                   | 21.31 | 228 | 155239 | 3.78   | ng | 91   |
| 33) Bis(2-ethylhexyl)phthalate | 21.19 | 149 | 81719  | 3.91   | ng | 93   |
| 34) Indeno(1,2,3-cd)pyrene     | 25.75 | 276 | 178734 | 3.66   | ng | 100  |
| 36) Benzo(b)fluoranthene       | 22.83 | 252 | 198945 | 4.47   | ng | 95   |
| 37) Benzo(k)fluoranthene       | 22.88 | 252 | 159529 | 3.96   | ng | 99   |
| 38) Benzo(a)pyrene             | 23.40 | 252 | 169228 | 4.31   | ng | 96   |
| 39) Dibenzo(a,h)anthracene     | 25.76 | 278 | 142682 | 4.05   | ng | 96   |
| 40) Benzo(g,h,i)perylene       | 26.44 | 276 | 151728 | 3.94   | ng | 98   |

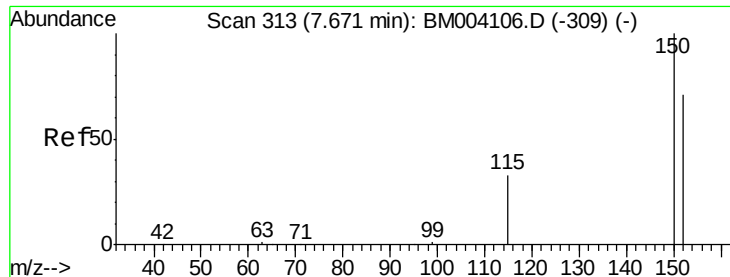
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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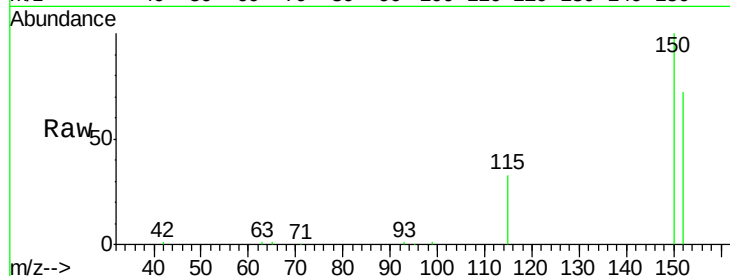




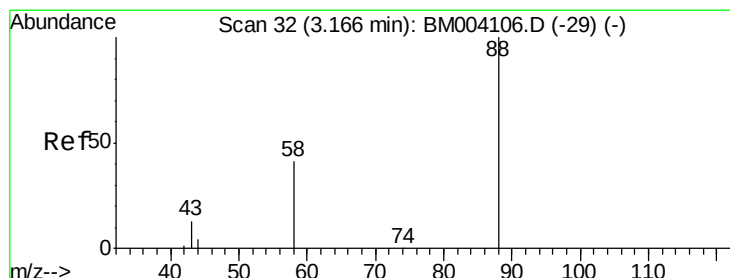
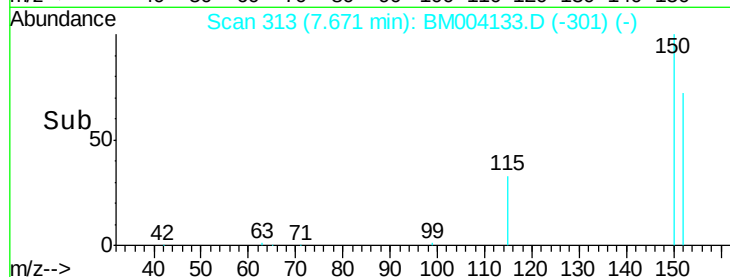
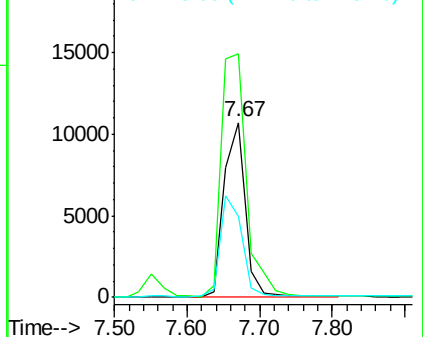
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 5.00 ng  
 RT: 7.67 min Scan# 313  
 Delta R.T. -0.00 min  
 Lab File: BM004133.D  
 Acq: 27 Jan 2016 14:25

Instrument :  
 BNA\_M  
 ClientSampleId :  
 PB87989BSD

Tgt Ion: 152 Resp: 21444  
 Ion Ratio Lower Upper  
 152 100  
 150 139.5 122.9 184.3  
 115 46.6 44.4 66.6

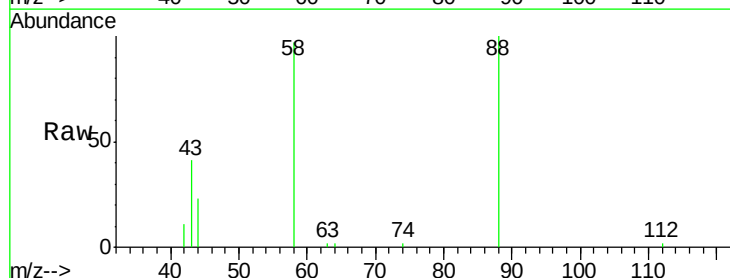


Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E

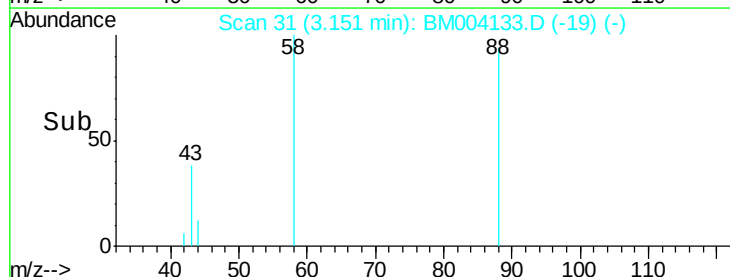
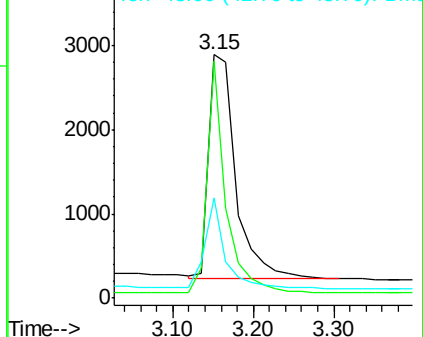


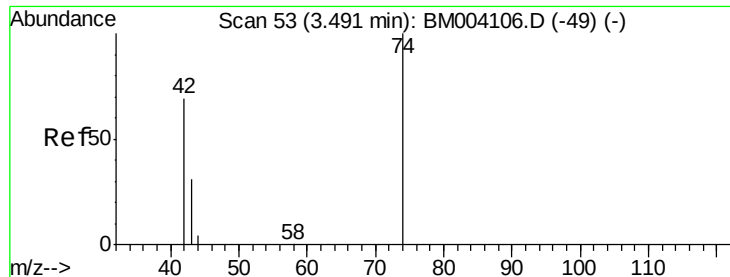
#2  
 1,4-Dioxane  
 Concen: 3.22 ng  
 RT: 3.15 min Scan# 31  
 Delta R.T. -0.02 min  
 Lab File: BM004133.D  
 Acq: 27 Jan 2016 14:25

Tgt Ion: 88 Resp: 6283  
 Ion Ratio Lower Upper  
 88 100  
 58 70.8 53.8 80.6  
 43 29.3 23.8 35.6



Abundance Ion 88.00 (87.70 to 88.70): BM0  
 Ion 58.00 (57.70 to 58.70): BM0  
 Ion 43.00 (42.70 to 43.70): BM0





#3

n-Nitrosodimethylamine

Concen: 3.58 ng

RT: 3.48 min Scan# 52

Delta R.T. -0.02 min

Lab File: BM004133.D

Acq: 27 Jan 2016 14:25

Instrument :

BNA\_M

ClientSampleId :

PB87989BSD

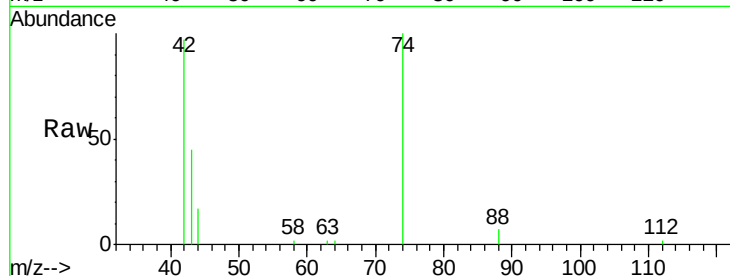
Tgt Ion: 42 Resp: 6842

Ion Ratio Lower Upper

42 100

74 127.1 95.0 142.4

44 6.9 5.1 7.7

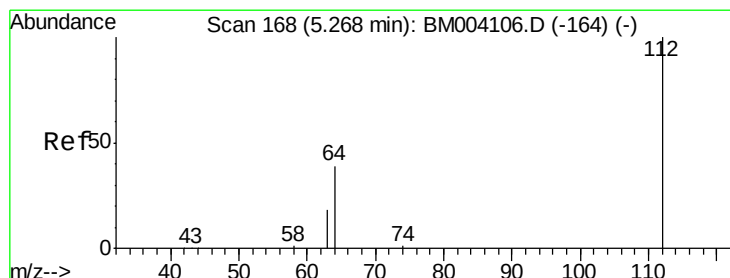
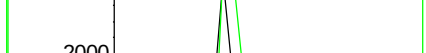
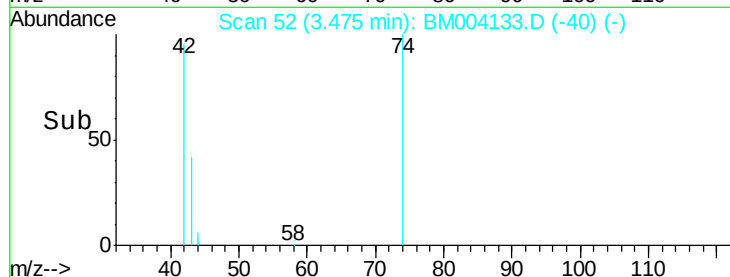


Abundance Ion 42.00 (41.70 to 42.70): BM004106.D (-49) (-)

Ion 74.00 (73.70 to 74.70): BM004106.D (-49) (-)

Ion 44.00 (43.70 to 44.70): BM004106.D (-49) (-)

Time-->



#4

2-Fluorophenol

Concen: 6.35 ng

RT: 5.25 min Scan# 167

Delta R.T. -0.02 min

Lab File: BM004133.D

Acq: 27 Jan 2016 14:25

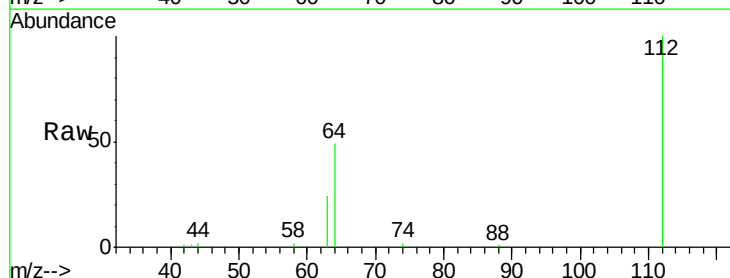
Tgt Ion: 112 Resp: 28412

Ion Ratio Lower Upper

112 100

64 51.8 41.8 62.8

63 27.0 22.1 33.1

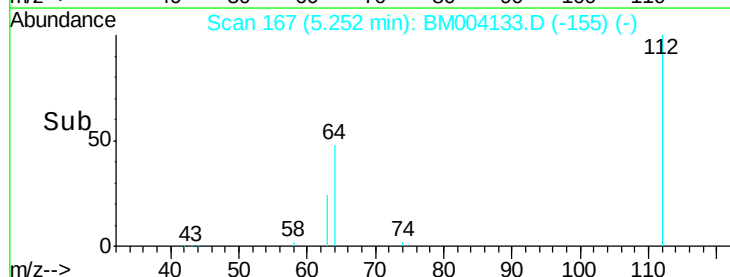


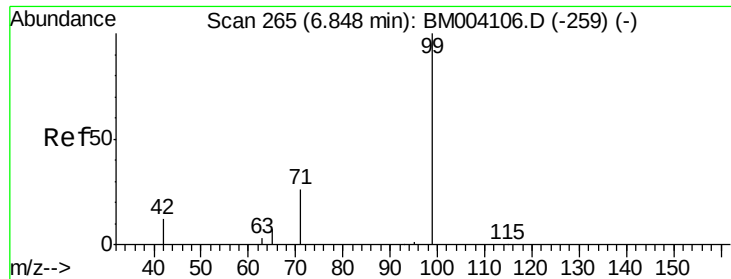
Abundance Ion 112.00 (111.70 to 112.70): BM004106.D (-164) (-)

Ion 64.00 (63.70 to 64.70): BM004106.D (-164) (-)

Ion 63.00 (62.70 to 63.70): BM004106.D (-164) (-)

Time-->





#5

Phenol-d6

Concen: 7.14 ng

RT: 6.83 min Scan# 264

Delta R.T. -0.02 min

Lab File: BM004133.D

Acq: 27 Jan 2016 14:25

Instrument :

BNA\_M

ClientSampleId :

PB87989BSD

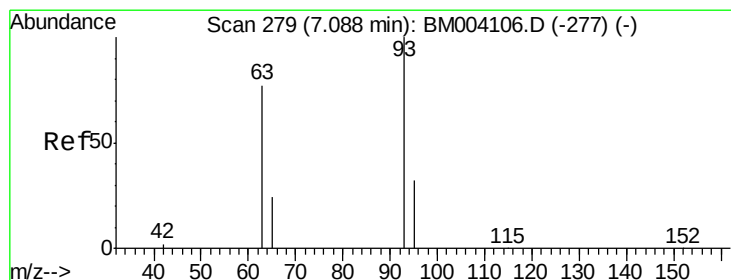
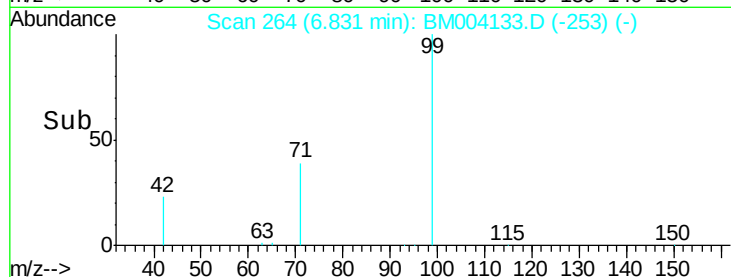
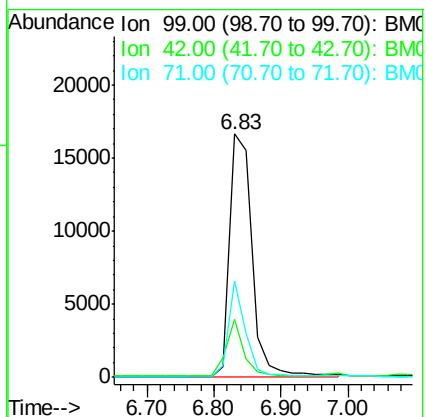
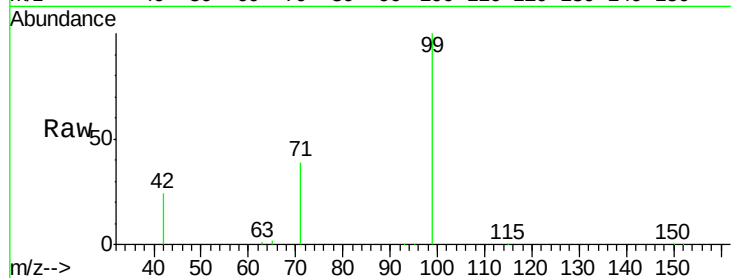
Tgt Ion: 99 Resp: 38563

Ion Ratio Lower Upper

99 100

42 18.4 16.2 24.2

71 30.3 24.4 36.6



#6

bis(2-Chloroethyl)ether

Concen: 3.55 ng

RT: 7.09 min Scan# 279

Delta R.T. -0.00 min

Lab File: BM004133.D

Acq: 27 Jan 2016 14:25

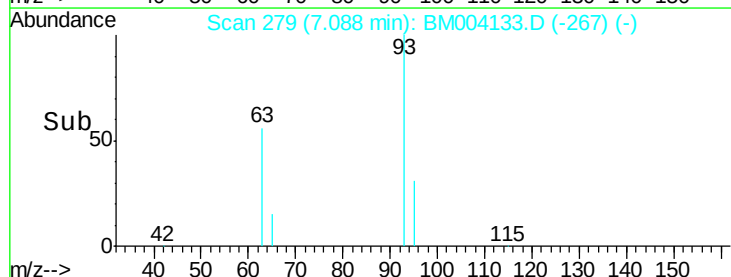
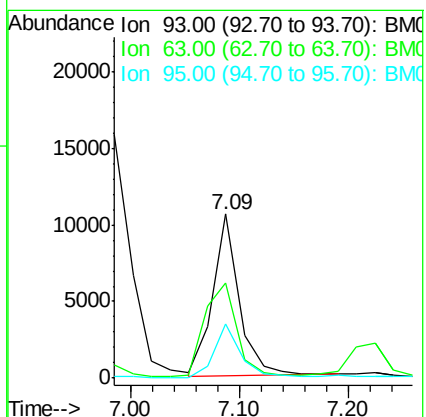
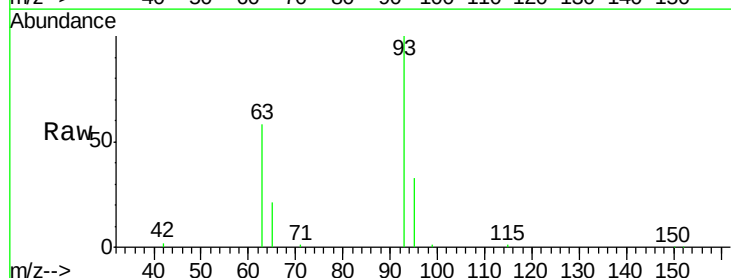
Tgt Ion: 93 Resp: 17776

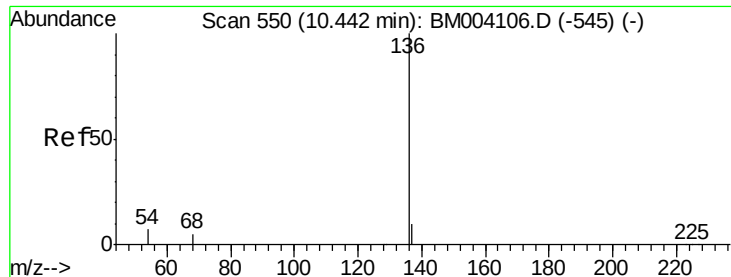
Ion Ratio Lower Upper

93 100

63 72.4 58.3 87.5

95 32.9 25.8 38.8





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.44 min Scan# 550

Delta R.T. -0.00 min

Lab File: BM004133.D

Acq: 27 Jan 2016 14:25

Instrument :

BNA\_M

ClientSampleId :

PB87989BSD

Tgt Ion:136 Resp: 96838

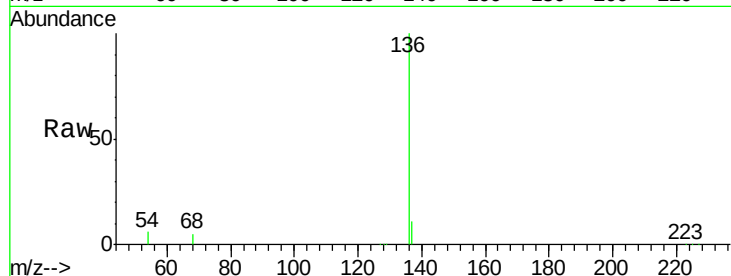
Ion Ratio Lower Upper

136 100

137 10.7 9.2 13.8

54 6.1 2.8 4.2#

68 4.7 2.5 3.7#

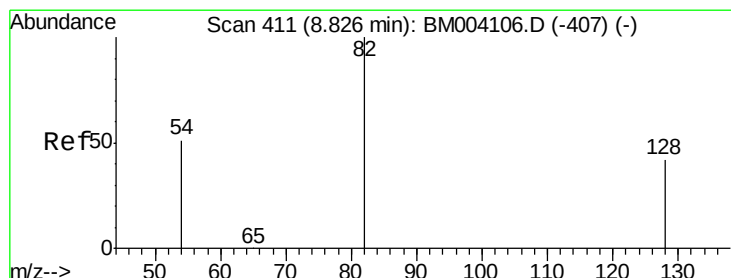
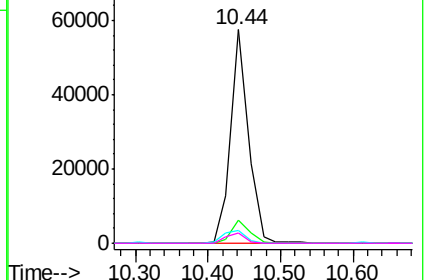
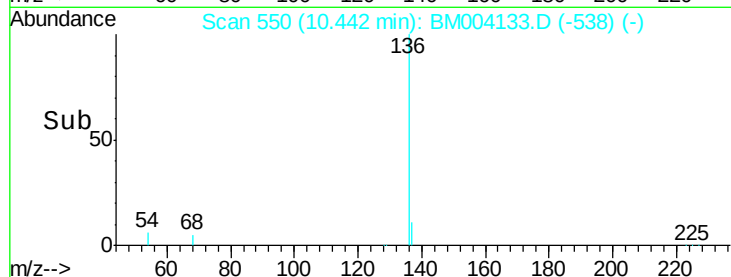


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BM

Ion 68.00 (67.70 to 68.70): BM



#8

Nitrobenzene-d5

Concen: 4.11 ng

RT: 8.83 min Scan# 411

Delta R.T. -0.00 min

Lab File: BM004133.D

Acq: 27 Jan 2016 14:25

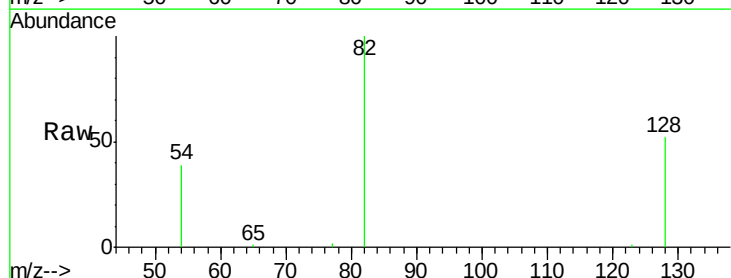
Tgt Ion: 82 Resp: 17446

Ion Ratio Lower Upper

82 100

128 51.7 39.1 58.7

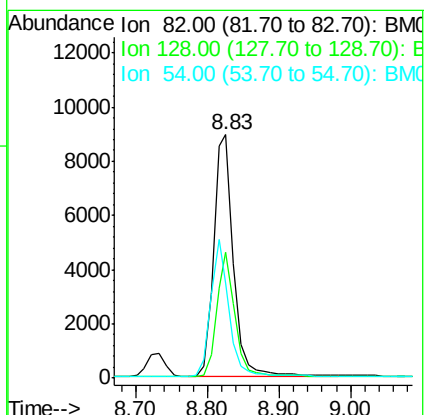
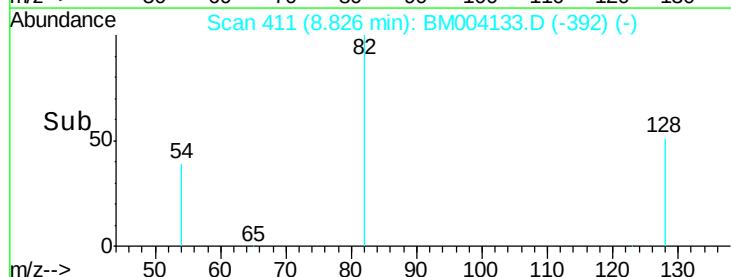
54 39.2 34.8 52.2

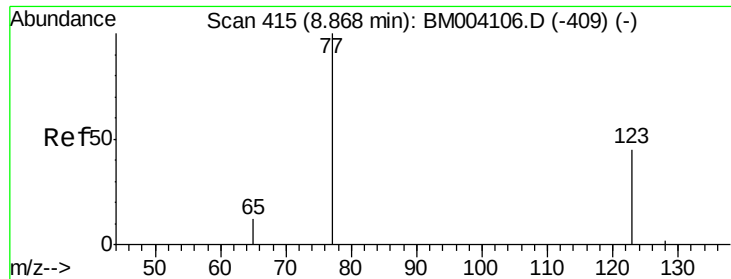


Abundance Ion 82.00 (81.70 to 82.70): BM

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BM





#9

Nitrobenzene

Concen: 3.18 ng

RT: 8.86 min Scan# 414

Delta R.T. -0.01 min

Lab File: BM004133.D

Acq: 27 Jan 2016 14:25

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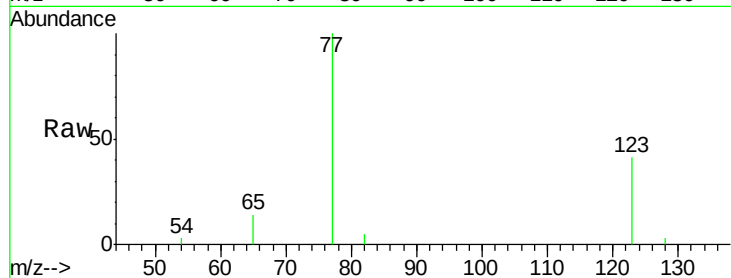
Tgt Ion: 77 Resp: 18702

Ion Ratio Lower Upper

77 100

123 49.1 38.6 57.8

65 12.7 9.9 14.9



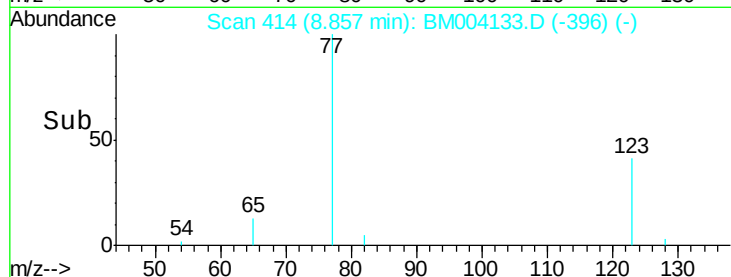
Abundance Ion 77.00 (76.70 to 77.70): BM004106.D (-409) (-)

Ion 123.00 (122.70 to 123.70): BM004106.D (-409) (-)

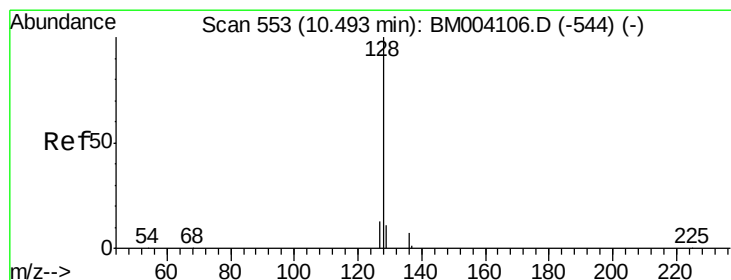
Ion 65.00 (64.70 to 65.70): BM004106.D (-409) (-)

8.86

Time-->



Time-->



#10

Naphthalene

Concen: 3.31 ng

RT: 10.49 min Scan# 553

Delta R.T. -0.00 min

Lab File: BM004133.D

Acq: 27 Jan 2016 14:25

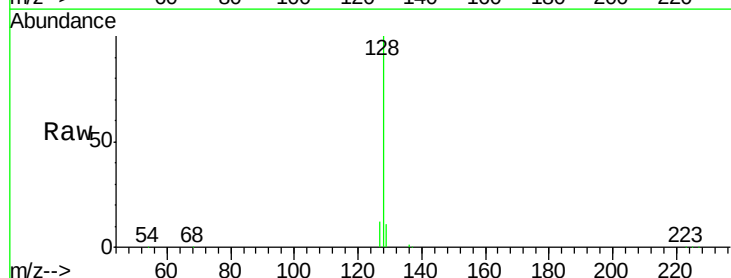
Tgt Ion: 128 Resp: 74707

Ion Ratio Lower Upper

128 100

129 11.2 8.5 12.7

127 12.3 11.0 16.4



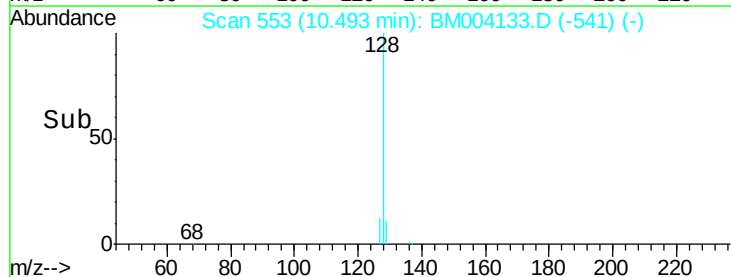
Abundance Ion 128.00 (127.70 to 128.70): BM004106.D (-544) (-)

Ion 129.00 (128.70 to 129.70): BM004106.D (-544) (-)

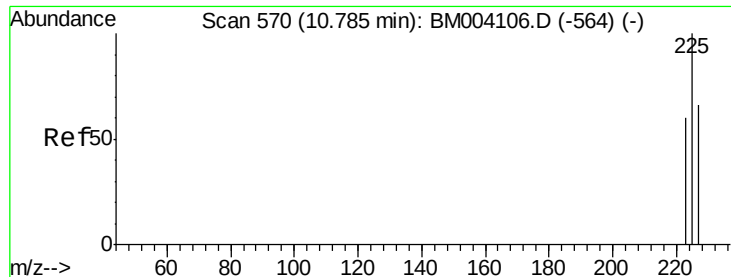
Ion 127.00 (126.70 to 127.70): BM004106.D (-544) (-)

10.49

Time-->



Time-->



#11

Hexachlorobutadiene

Concen: 3.09 ng

RT: 10.79 min Scan# 570

Delta R.T. -0.00 min

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Acq: 27 Jan 2016 14:25

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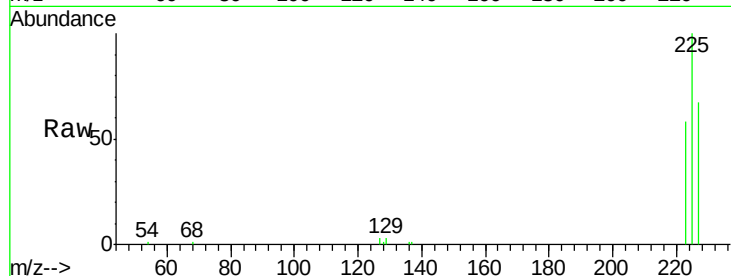
Tgt Ion:225 Resp: 10762

Ion Ratio Lower Upper

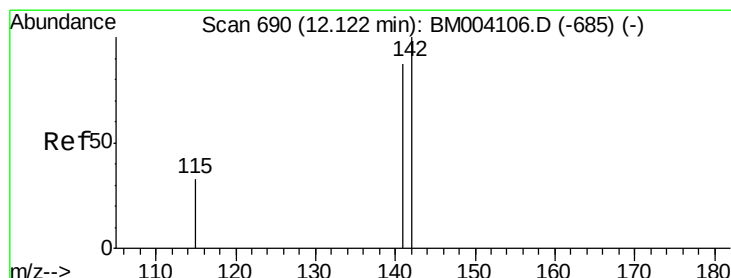
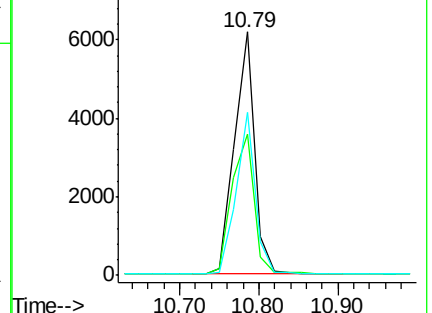
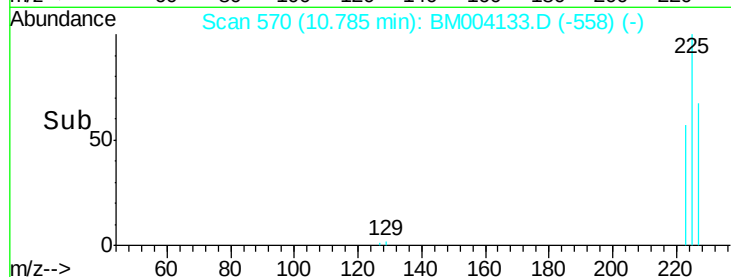
225 100

223 62.7 50.9 76.3

227 63.6 51.2 76.8



Abundance Ion 225.00 (224.70 to 225.70): E  
Ion 223.00 (222.70 to 223.70): E  
Ion 227.00 (226.70 to 227.70): E



#12

2-Methylnaphthalene

Concen: 3.81 ng

RT: 12.12 min Scan# 690

Delta R.T. -0.00 min

Lab File: BM004133.D

Acq: 27 Jan 2016 14:25

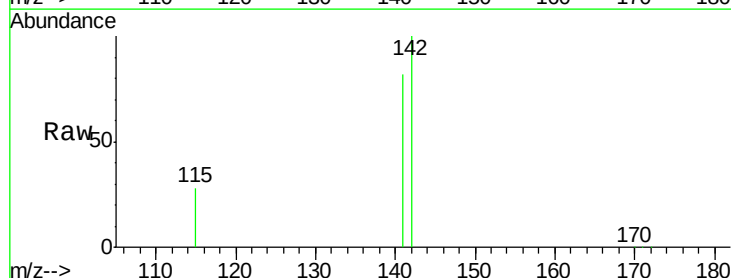
Tgt Ion:142 Resp: 56146

Ion Ratio Lower Upper

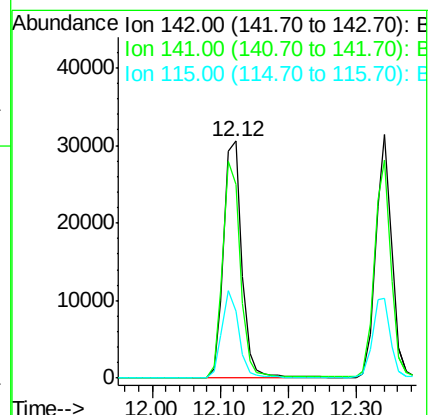
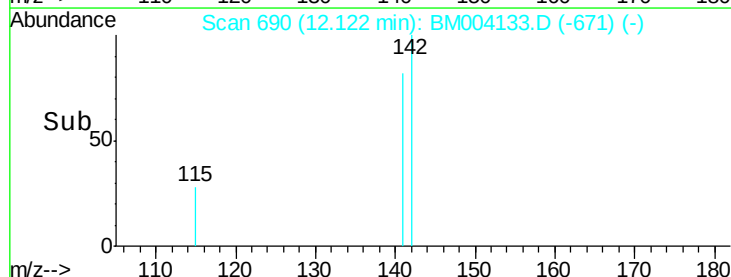
142 100

141 81.9 67.8 101.8

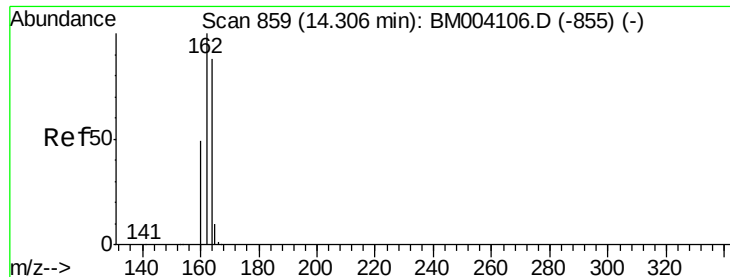
115 28.5 25.3 37.9



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







#13

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.31 min Scan# 859

Delta R.T. -0.00 min

Lab File: BM004133.D

Acq: 27 Jan 2016 14:25

Instrument :

BNA\_M

ClientSampleId :

PB87989BSD

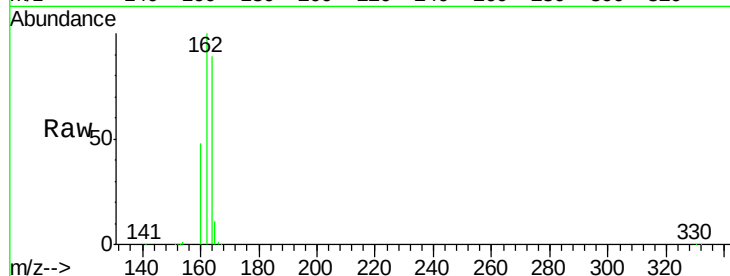
Tgt Ion:164 Resp: 58386

Ion Ratio Lower Upper

164 100

162 112.8 86.0 129.0

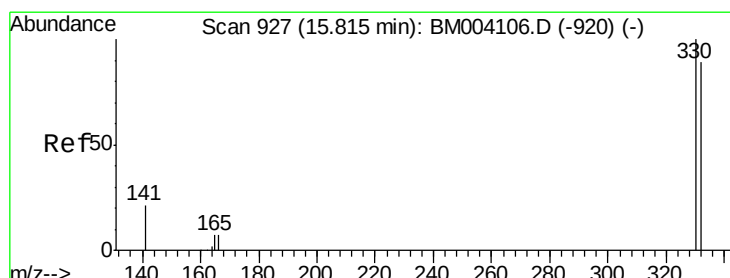
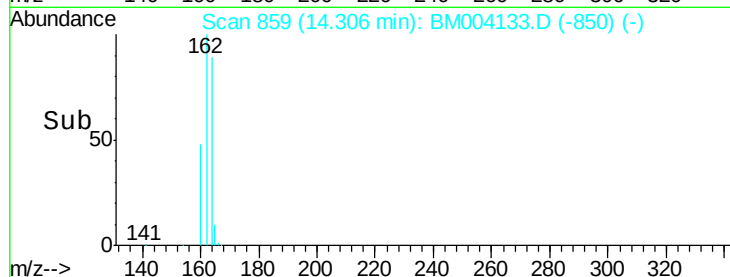
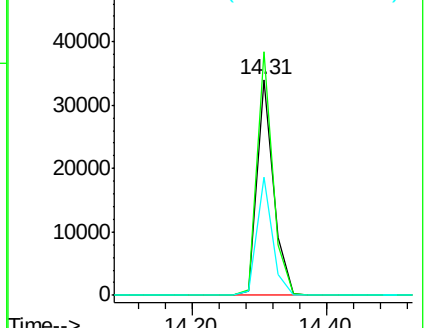
160 54.5 40.3 60.5



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#14

2,4,6-Tribromophenol

Concen: 6.94 ng

RT: 15.82 min Scan# 927

Delta R.T. 0.00 min

Lab File: BM004133.D

Acq: 27 Jan 2016 14:25

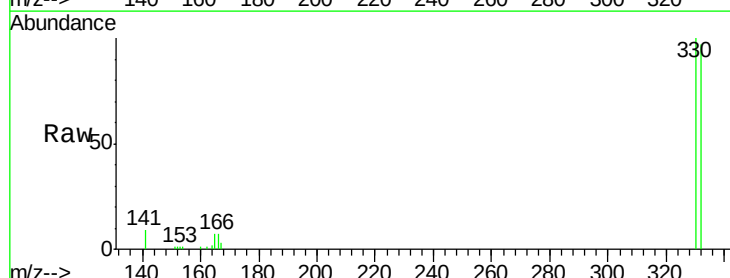
Tgt Ion:330 Resp: 15825

Ion Ratio Lower Upper

330 100

332 96.7 79.0 118.4

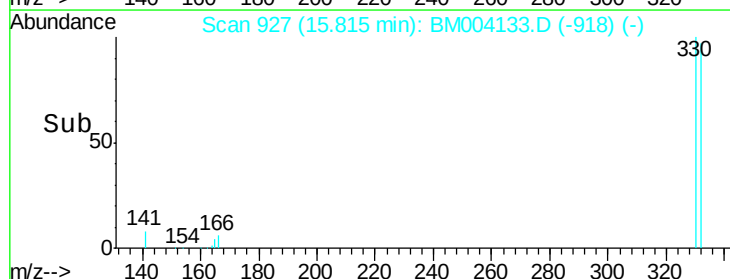
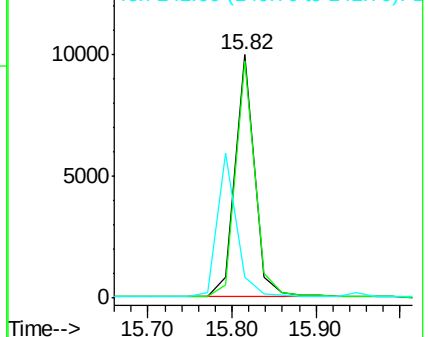
141 0.0 27.8 41.6#

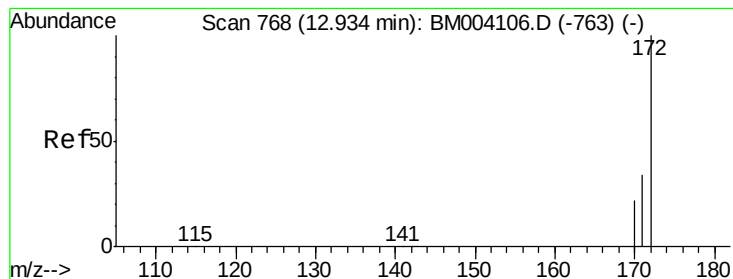


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

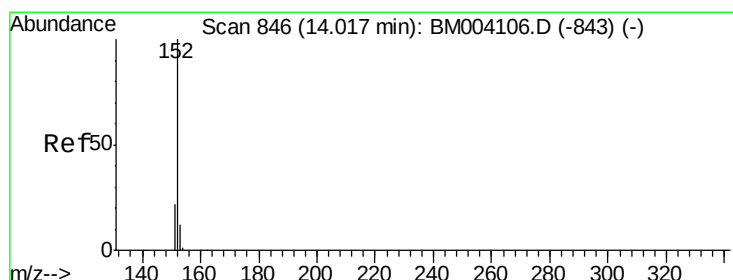
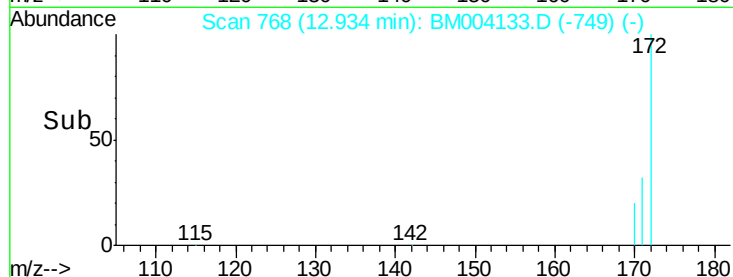
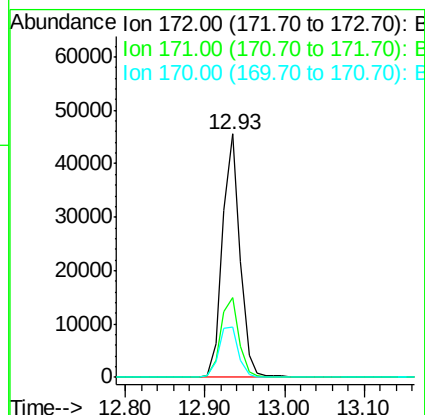
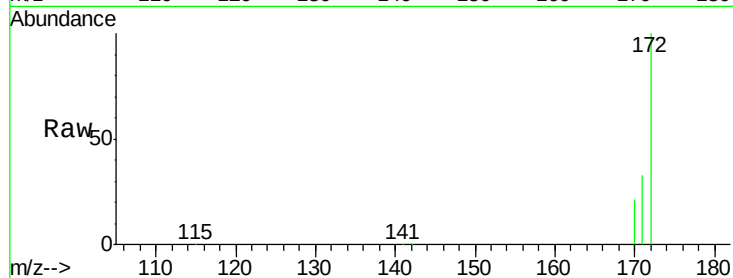




#15  
2-Fluorobiphenyl  
Concen: 3.88 ng  
RT: 12.93 min Scan# 768  
Delta R.T. -0.00 min  
Lab File: BM004133.D  
Acq: 27 Jan 2016 14:25

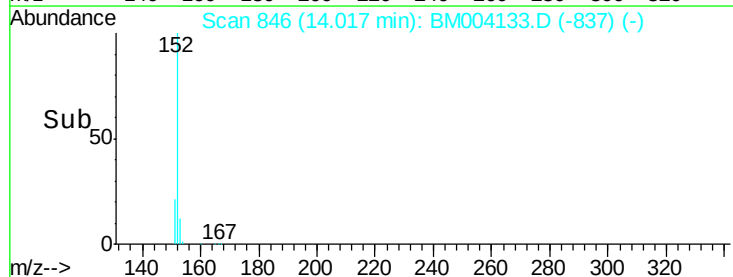
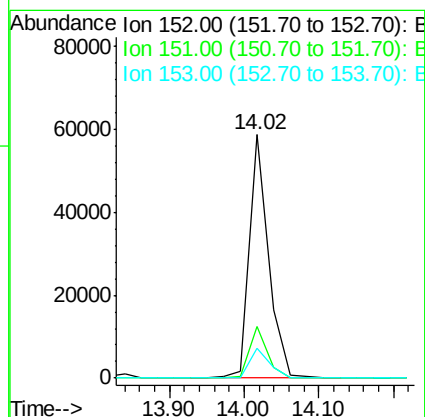
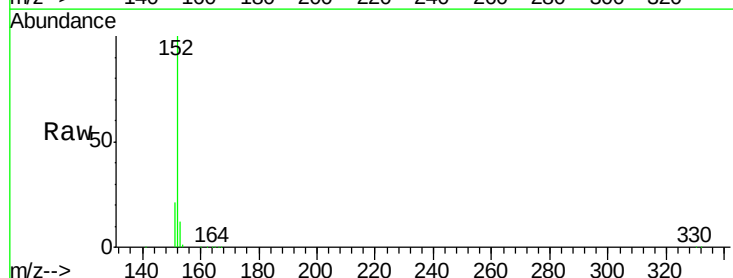
Instrument :  
BNA\_M  
ClientSampleId :  
PB87989BSD

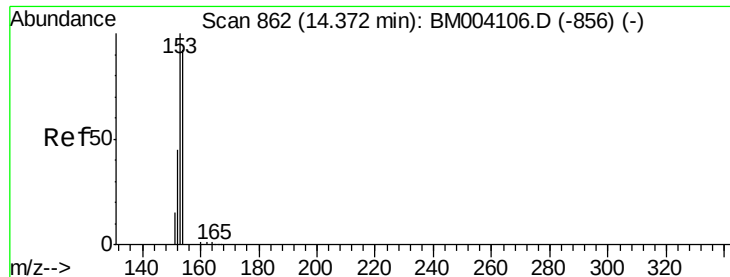
Tgt Ion:172 Resp: 69375  
Ion Ratio Lower Upper  
172 100  
171 32.7 27.0 40.6  
170 20.5 17.9 26.9



#16  
Acenaphthylene  
Concen: 4.12 ng  
RT: 14.02 min Scan# 846  
Delta R.T. -0.00 min  
Lab File: BM004133.D  
Acq: 27 Jan 2016 14:25

Tgt Ion:152 Resp: 103931  
Ion Ratio Lower Upper  
152 100  
151 19.8 15.8 23.8  
153 12.7 10.2 15.4

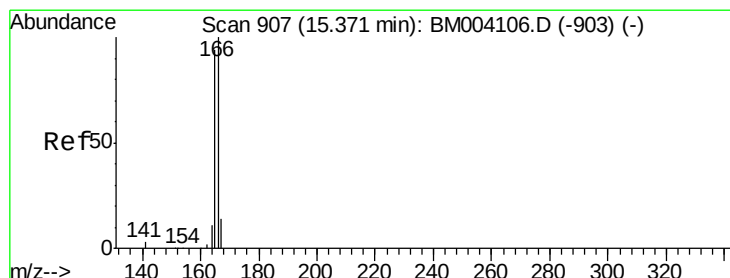
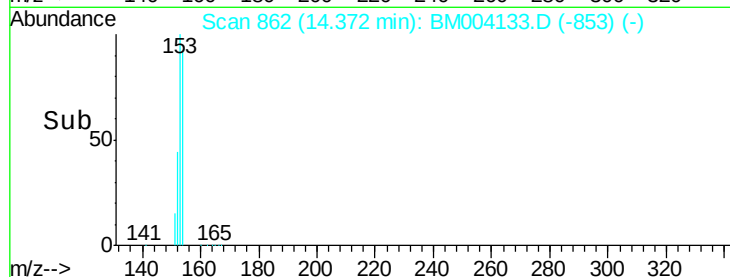
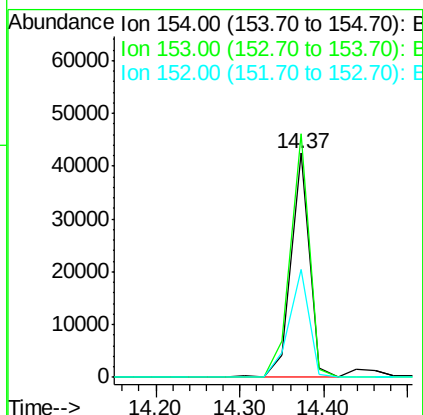
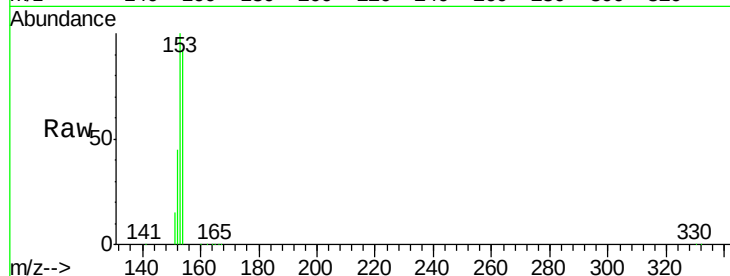




#17  
Acenaphthene  
Concen: 3.40 ng  
RT: 14.37 min Scan# 862  
Delta R.T. -0.00 min  
Lab File: BM004133.D  
Acq: 27 Jan 2016 14:25

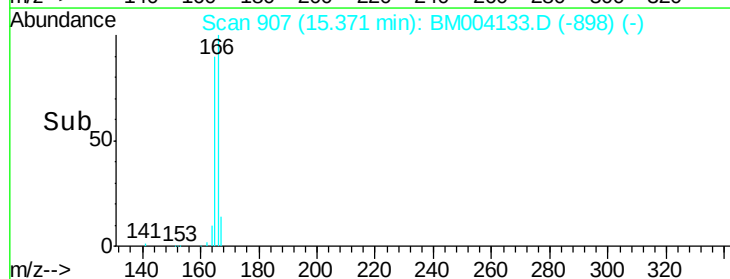
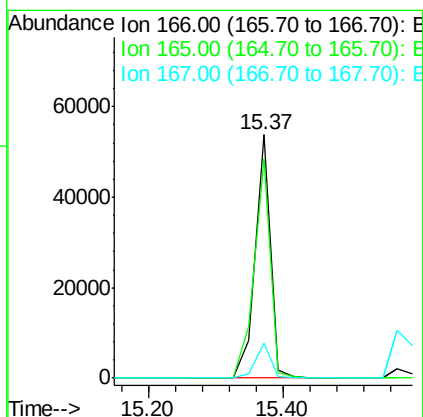
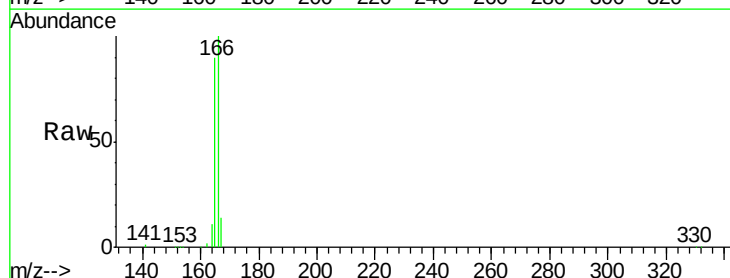
Instrument :  
BNA\_M  
ClientSampleId :  
PB87989BSD

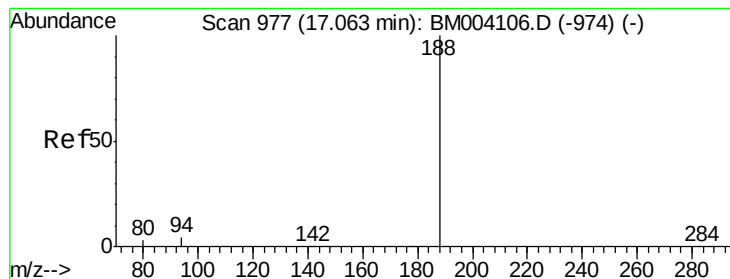
Tgt Ion:154 Resp: 64929  
Ion Ratio Lower Upper  
154 100  
153 111.9 85.4 128.2  
152 52.6 40.6 60.8



#18  
Fluorene  
Concen: 3.68 ng  
RT: 15.37 min Scan# 907  
Delta R.T. -0.00 min  
Lab File: BM004133.D  
Acq: 27 Jan 2016 14:25

Tgt Ion:166 Resp: 85387  
Ion Ratio Lower Upper  
166 100  
165 95.8 77.2 115.8  
167 13.6 11.0 16.6





#19

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.06 min Scan# 977

Delta R.T. -0.00 min

Lab File: BM004133.D

Acq: 27 Jan 2016 14:25

Instrument :

BNA\_M

ClientSampleId :

PB87989BSD

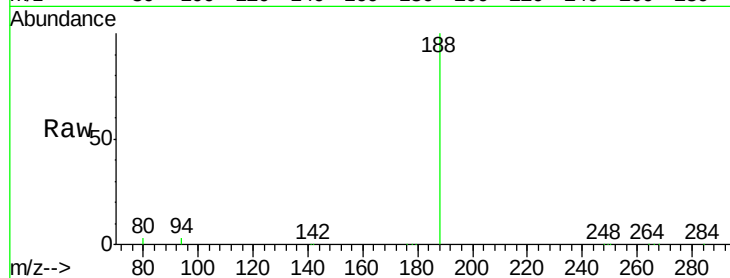
Tgt Ion:188 Resp: 151832

Ion Ratio Lower Upper

188 100

94 3.4 20.3 30.5#

80 2.8 22.2 33.4#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BM0

Ion 80.00 (79.70 to 80.70): BM0

120000

100000

80000

60000

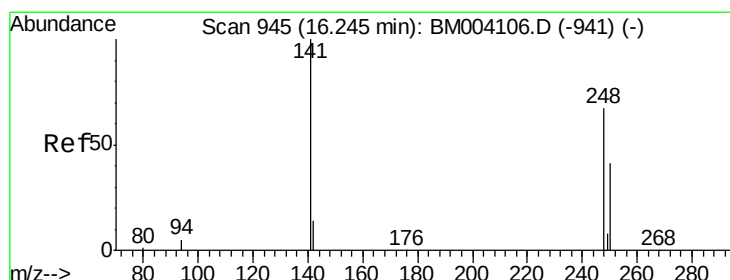
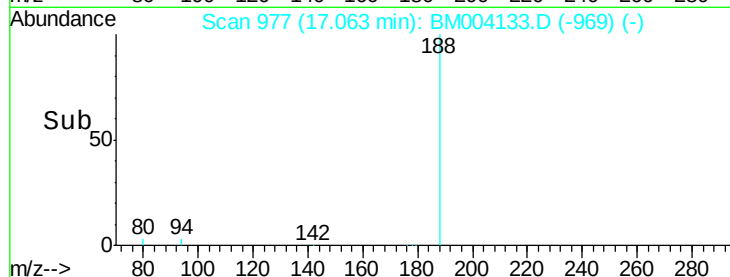
40000

20000

0

17.06

Time-->



#20

4-Bromophenyl-phenylether

Concen: 4.57 ng

RT: 16.24 min Scan# 945

Delta R.T. -0.00 min

Lab File: BM004133.D

Acq: 27 Jan 2016 14:25

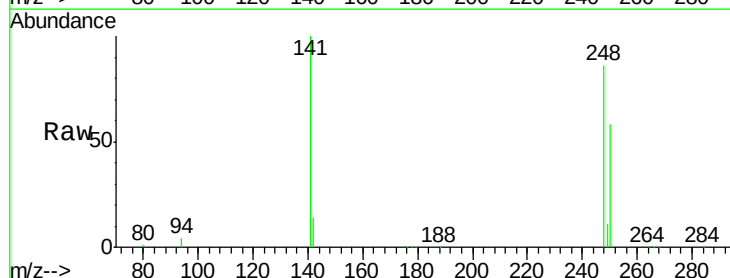
Tgt Ion:248 Resp: 22607

Ion Ratio Lower Upper

248 100

250 84.8 75.0 112.4

141 103.1 53.0 79.4#



Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E

20000

15000

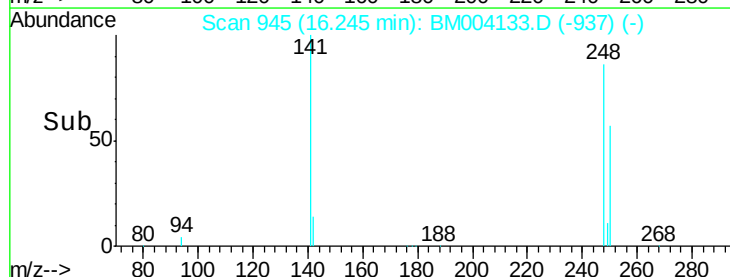
10000

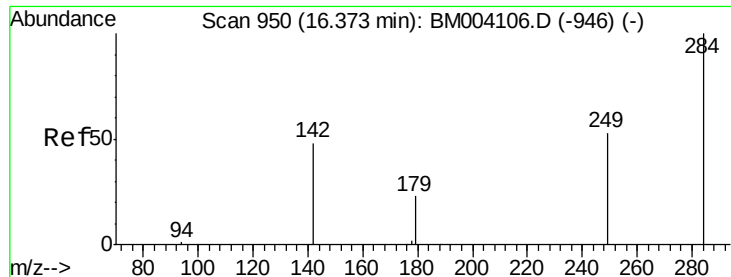
5000

0

16.24

Time-->

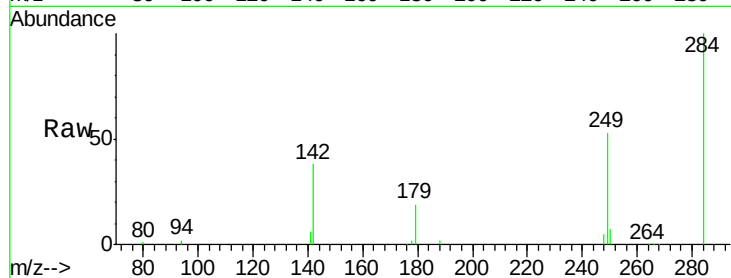




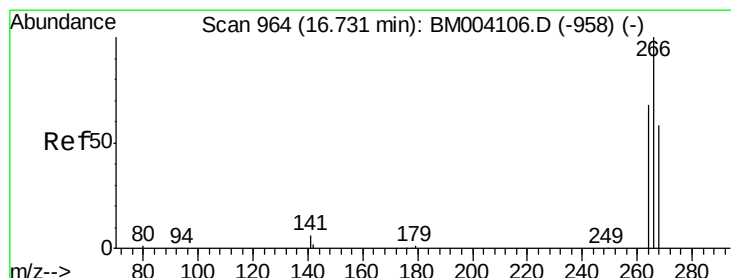
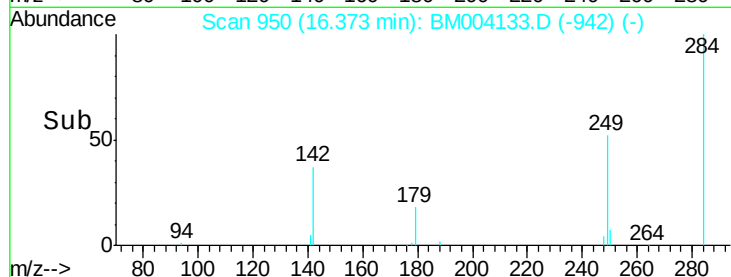
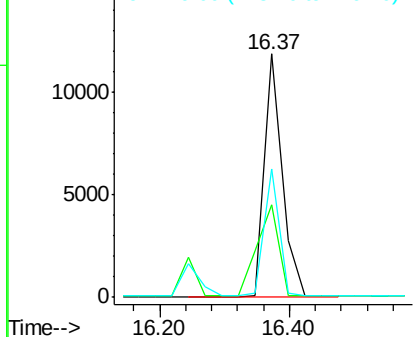
#21  
Hexachlorobenzene  
Concen: 4.31 ng  
RT: 16.37 min Scan# 950  
Delta R.T. -0.00 min  
Lab File: BM004133.D  
Acq: 27 Jan 2016 14:25

Instrument :  
BNA\_M  
ClientSampleId :  
PB87989BSD

Tgt Ion: 284 Resp: 22378  
Ion Ratio Lower Upper  
284 100  
142 45.7 22.2 33.4#  
249 44.3 21.5 32.3#

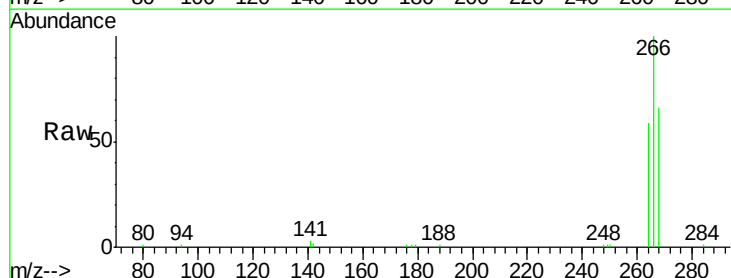


Abundance Ion 283.80 (283.50 to 284.50): E  
Ion 142.00 (141.70 to 142.70): E  
Ion 249.00 (248.70 to 249.70): E

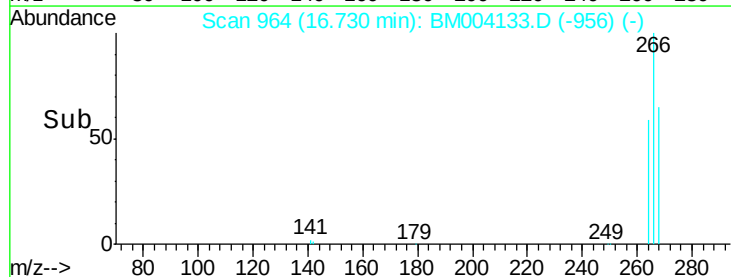
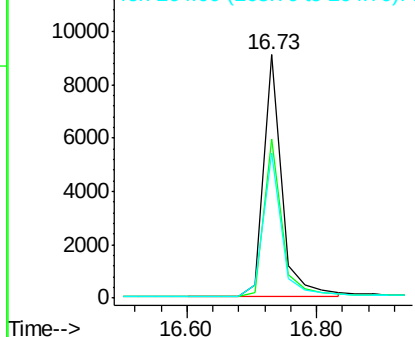


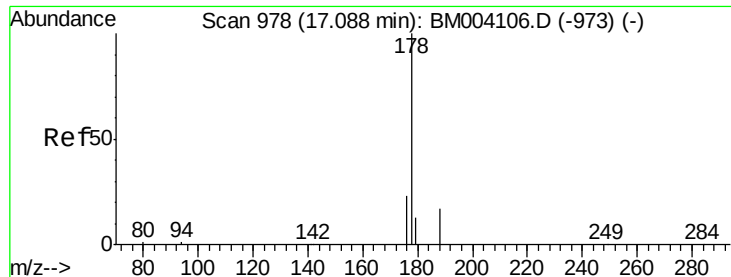
#22  
Pentachlorophenol  
Concen: 7.83 ng  
RT: 16.73 min Scan# 964  
Delta R.T. 0.00 min  
Lab File: BM004133.D  
Acq: 27 Jan 2016 14:25

Tgt Ion: 266 Resp: 17705  
Ion Ratio Lower Upper  
266 100  
268 65.5 62.7 94.1  
264 59.4 45.7 68.5



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

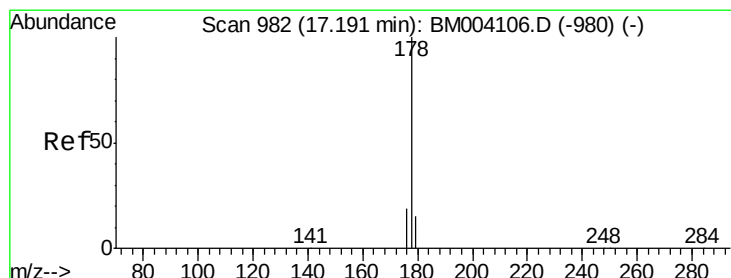
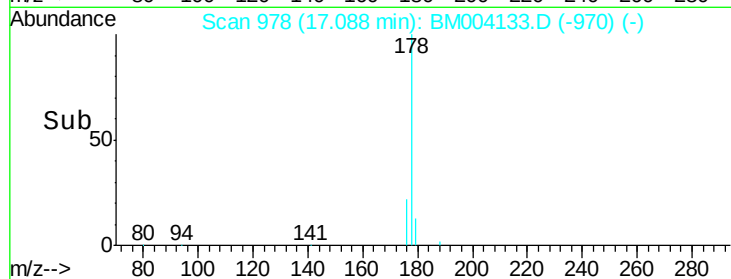
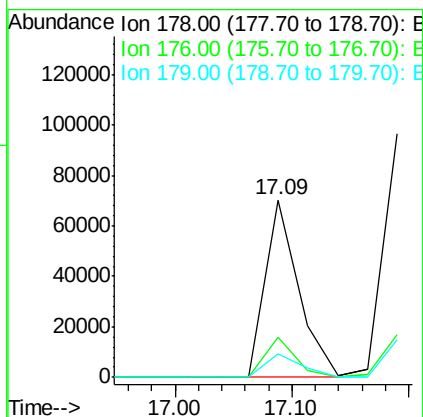
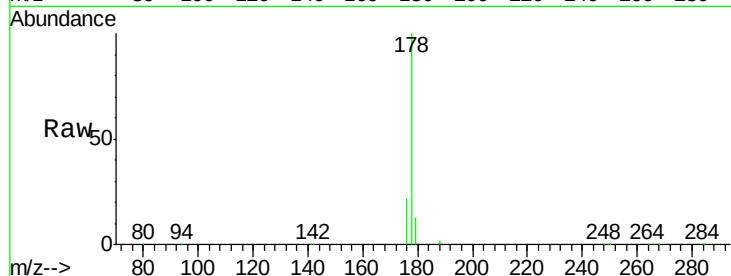




#23  
 Phenanthrene  
 Concen: 4.75 ng  
 RT: 17.09 min Scan# 978  
 Delta R.T. 0.00 min  
 Lab File: BM004133.D  
 Acq: 27 Jan 2016 14:25

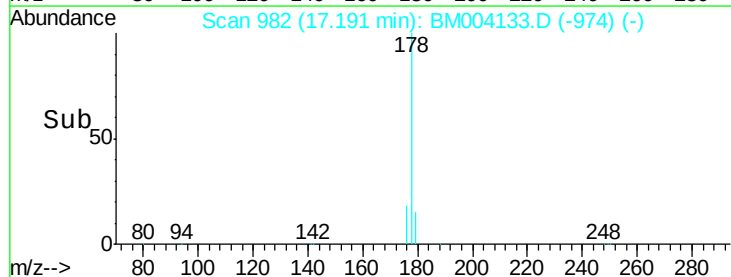
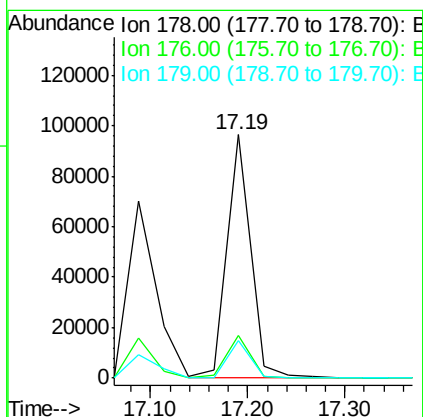
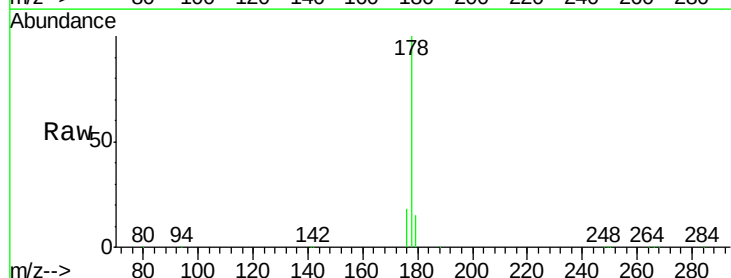
Instrument :  
 BNA\_M  
 ClientSampleId :  
 PB87989BSD

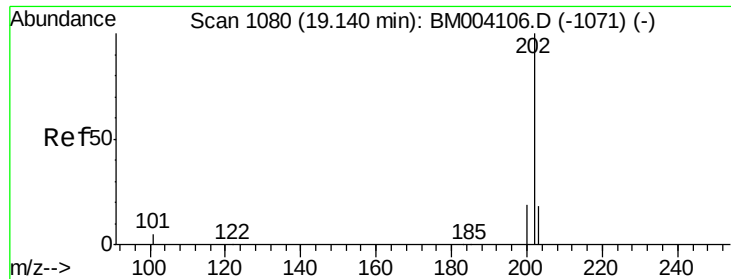
Tgt Ion:178 Resp: 139481  
 Ion Ratio Lower Upper  
 178 100  
 176 20.4 15.4 23.0  
 179 14.5 12.2 18.4



#24  
 Anthracene  
 Concen: 4.63 ng  
 RT: 17.19 min Scan# 982  
 Delta R.T. -0.00 min  
 Lab File: BM004133.D  
 Acq: 27 Jan 2016 14:25

Tgt Ion:178 Resp: 160508  
 Ion Ratio Lower Upper  
 178 100  
 176 17.9 14.6 21.8  
 179 15.3 12.6 19.0





#25

Fluoranthene

Concen: 4.26 ng

RT: 19.14 min Scan# 1080

Delta R.T. -0.00 min

Lab File: BM004133.D

Acq: 27 Jan 2016 14:25

Instrument :

BNA\_M

ClientSampleId :

PB87989BSD

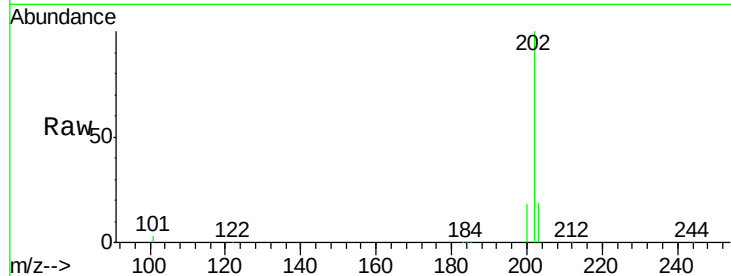
Tgt Ion:202 Resp: 175331

Ion Ratio Lower Upper

202 100

101 12.2 9.7 14.5

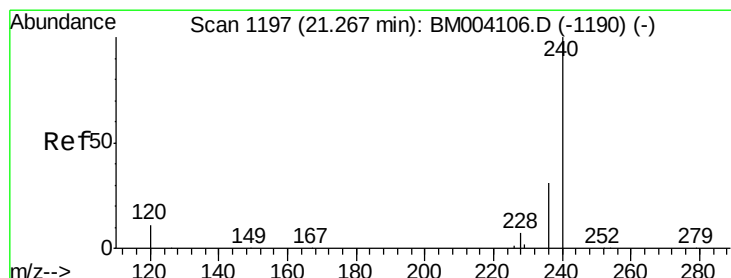
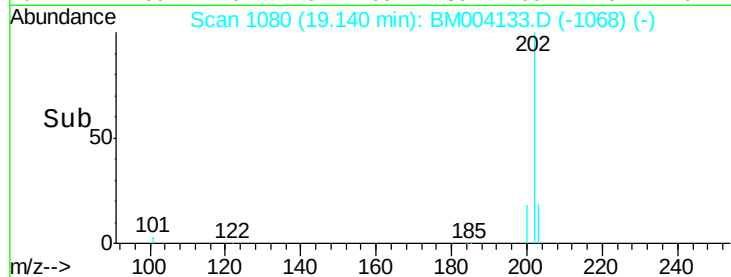
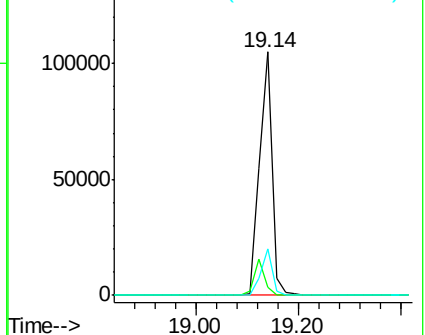
203 17.4 13.8 20.8



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



#26

Chrysene-d12

Concen: 5.00 ng

RT: 21.27 min Scan# 1197

Delta R.T. -0.00 min

Lab File: BM004133.D

Acq: 27 Jan 2016 14:25

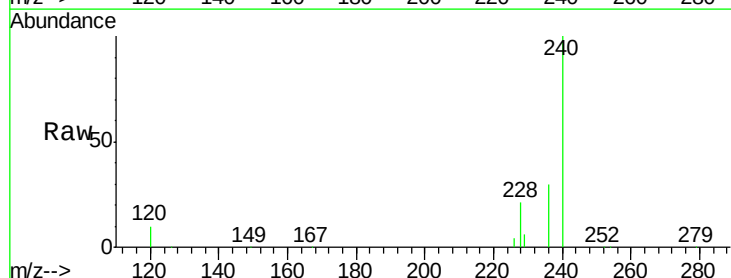
Tgt Ion:240 Resp: 162730

Ion Ratio Lower Upper

240 100

120 9.9 0.9 1.3#

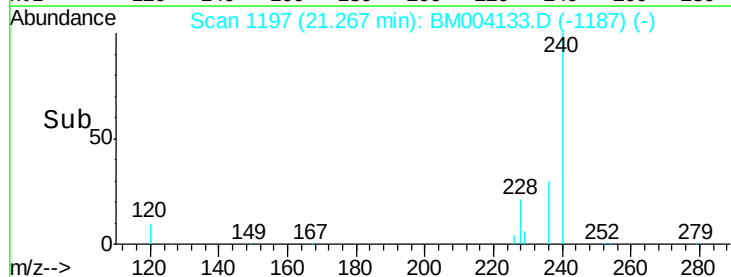
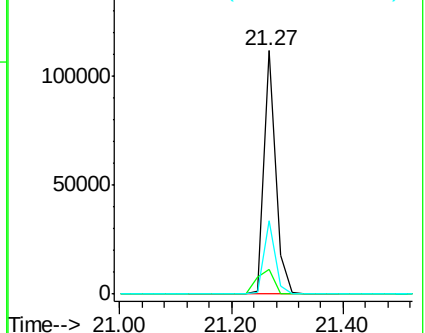
236 30.2 17.3 25.9#

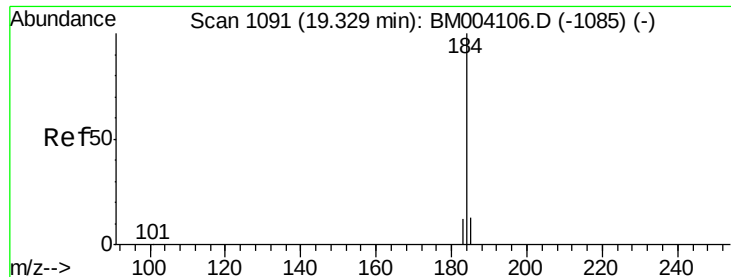


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#27

Benzidine

Concen: 7.66 ng

RT: 19.33 min Scan# 1091

Delta R.T. 0.00 min

Lab File: BM004133.D

Acq: 27 Jan 2016 14:25

Instrument :

BNA\_M

ClientSampleId :

PB87989BSD

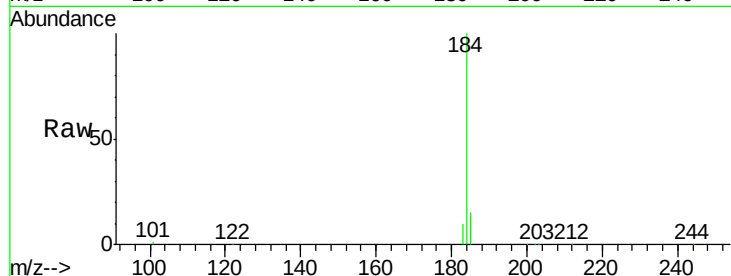
Tgt Ion:184 Resp: 115287

Ion Ratio Lower Upper

184 100

185 14.9 13.2 19.8

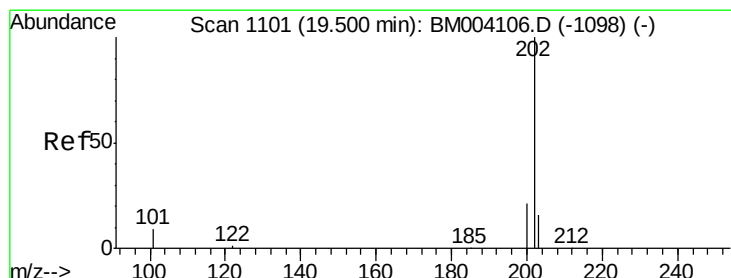
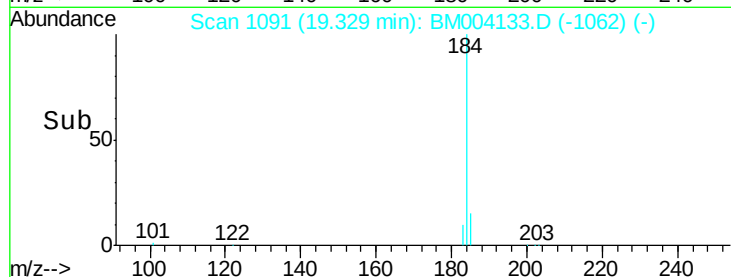
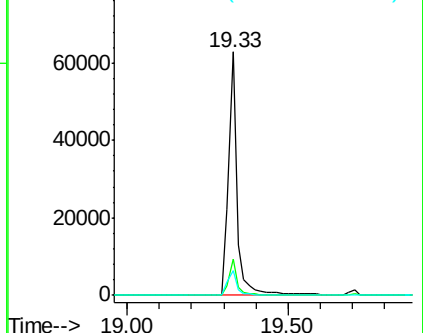
183 10.2 9.0 13.6



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



#28

Pyrene

Concen: 4.40 ng

RT: 19.50 min Scan# 1101

Delta R.T. 0.00 min

Lab File: BM004133.D

Acq: 27 Jan 2016 14:25

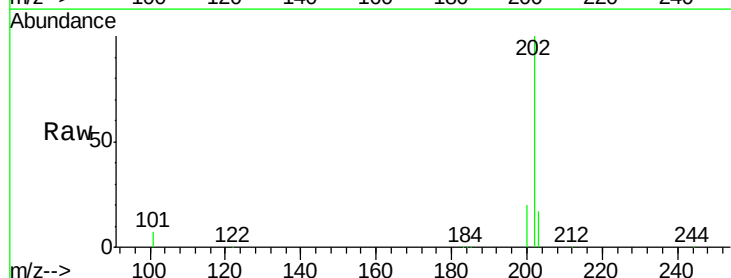
Tgt Ion:202 Resp: 197992

Ion Ratio Lower Upper

202 100

200 20.7 16.6 24.8

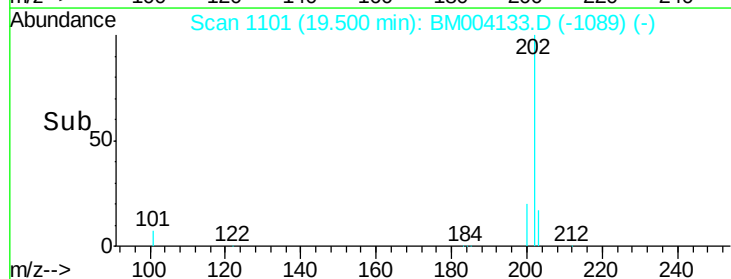
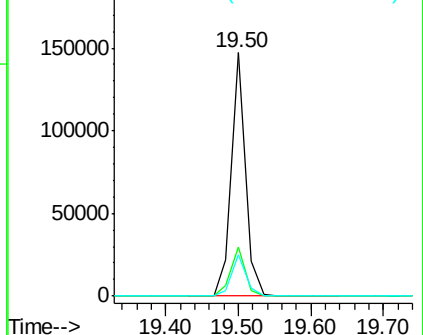
203 17.8 14.0 21.0



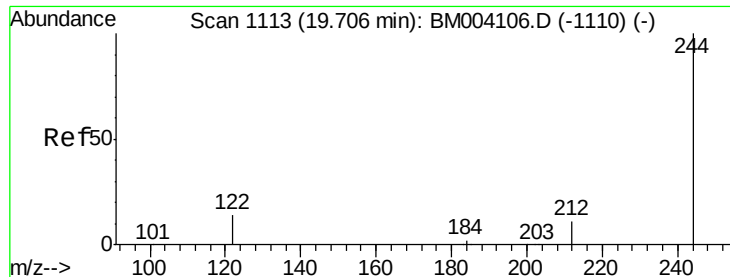
Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E







#29

Terphenyl-d14

Concen: 4.25 ng

RT: 19.71 min Scan# 1113

Delta R.T. 0.00 min

Lab File: BM004133.D

Acq: 27 Jan 2016 14:25

Instrument :

BNA\_M

ClientSampleId :

PB87989BSD

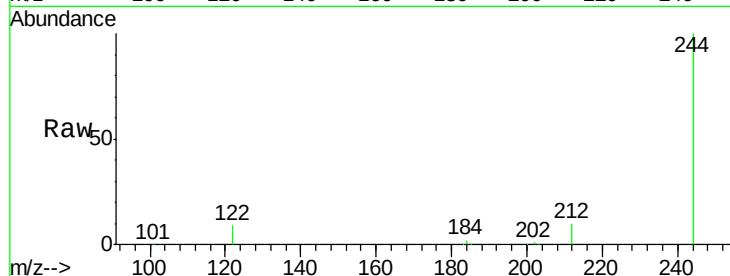
Tgt Ion:244 Resp: 87984

Ion Ratio Lower Upper

244 100

212 10.3 7.0 10.6

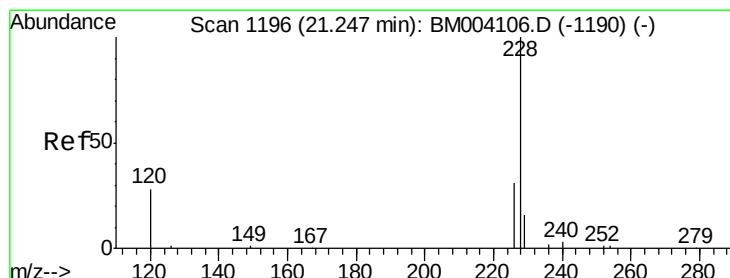
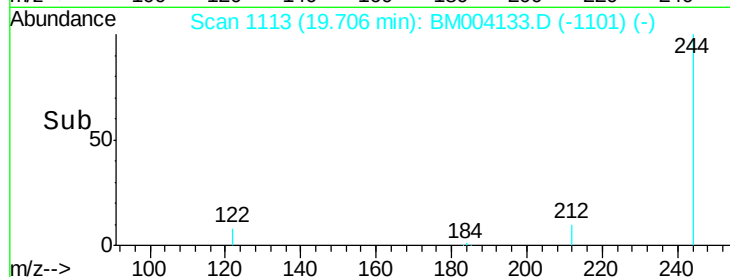
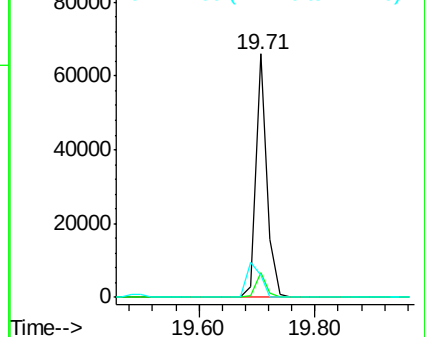
122 8.9 3.0 4.6#



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



#30

Benzo(a)anthracene

Concen: 4.54 ng

RT: 21.25 min Scan# 1196

Delta R.T. 0.00 min

Lab File: BM004133.D

Acq: 27 Jan 2016 14:25

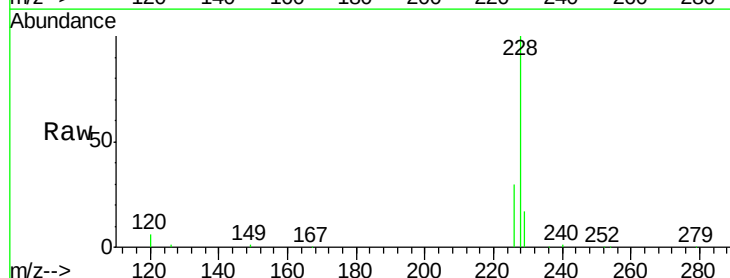
Tgt Ion:228 Resp: 216236

Ion Ratio Lower Upper

228 100

226 30.0 17.2 25.8#

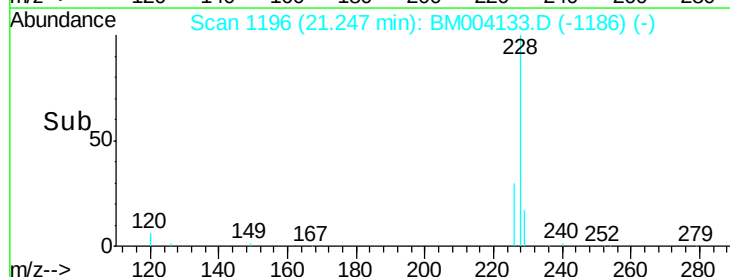
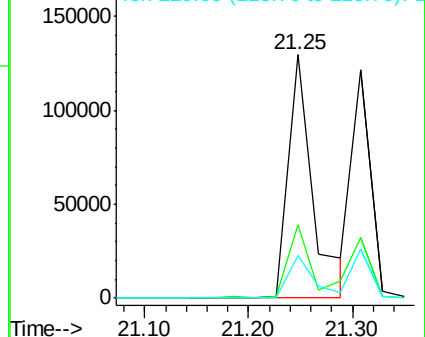
229 17.3 18.7 28.1#

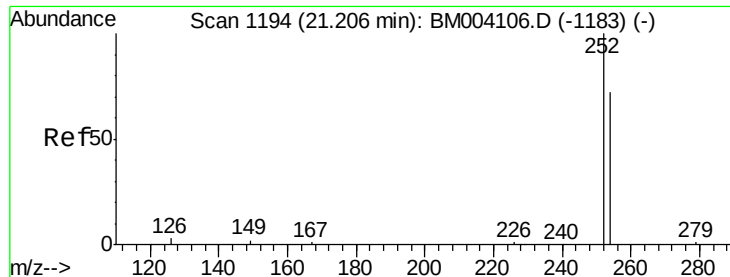


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

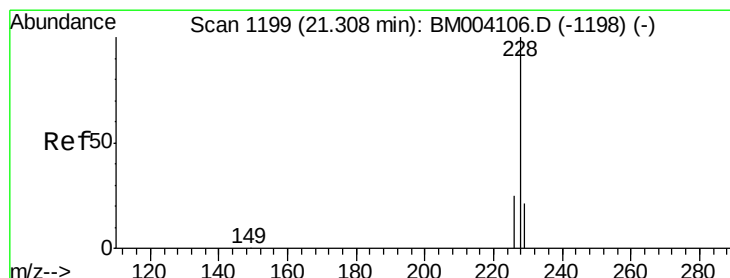
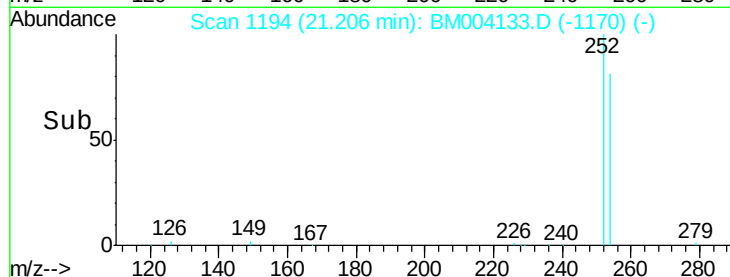
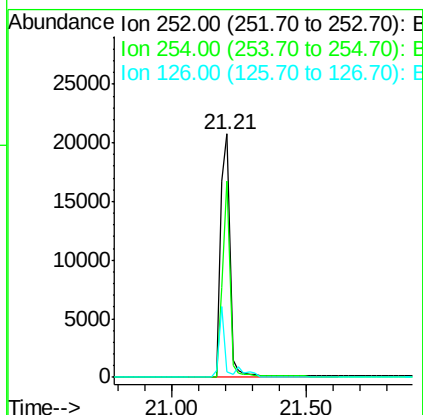
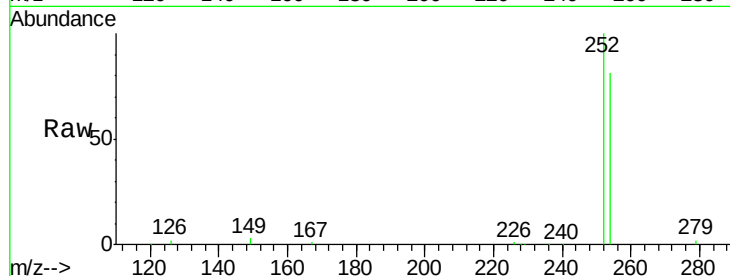




#31  
 3,3'-Dichlorobenzidine  
 Concen: 4.05 ng  
 RT: 21.21 min Scan# 1194  
 Delta R.T. 0.00 min  
 Lab File: BM004133.D  
 Acq: 27 Jan 2016 14:25

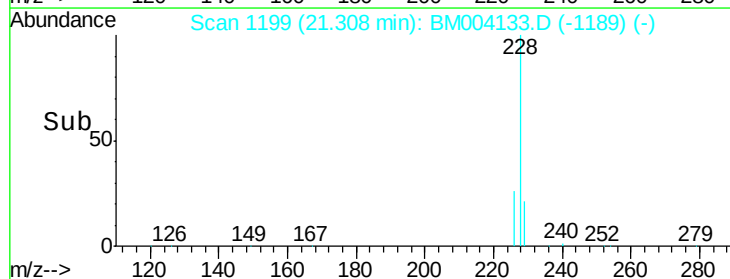
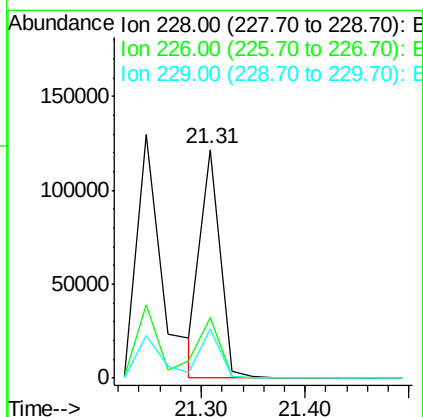
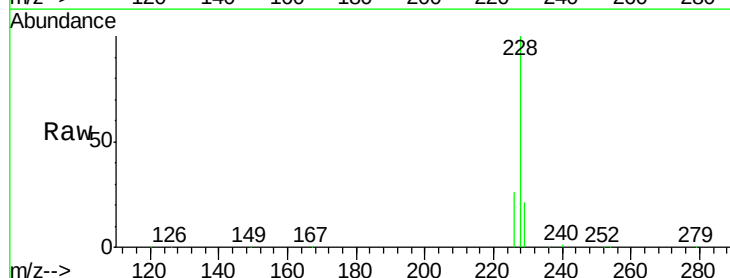
Instrument :  
 BNA\_M  
 ClientSampleId :  
 PB87989BSD

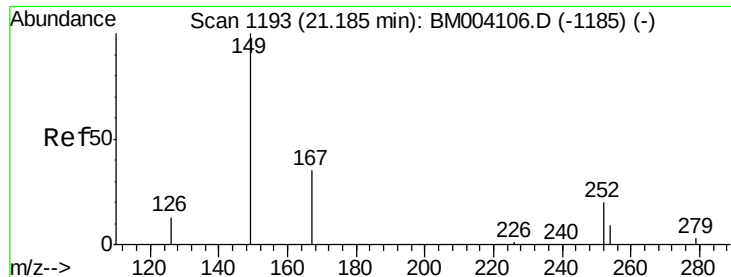
Tgt Ion:252 Resp: 50241  
 Ion Ratio Lower Upper  
 252 100  
 254 80.5 52.6 79.0#  
 126 2.2 3.7 5.5#



#32  
 Chrysene  
 Concen: 3.78 ng  
 RT: 21.31 min Scan# 1199  
 Delta R.T. 0.00 min  
 Lab File: BM004133.D  
 Acq: 27 Jan 2016 14:25

Tgt Ion:228 Resp: 155239  
 Ion Ratio Lower Upper  
 228 100  
 226 26.3 25.3 37.9  
 229 21.2 14.5 21.7

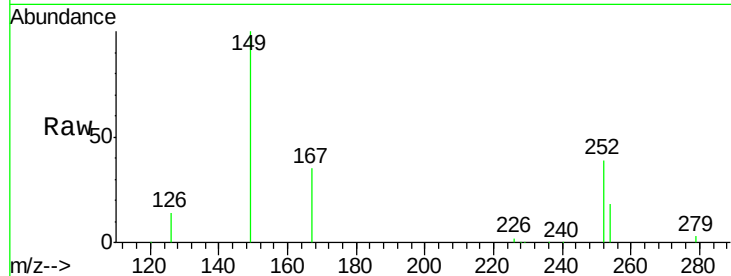




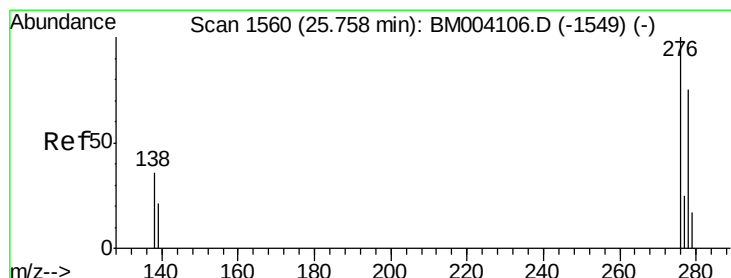
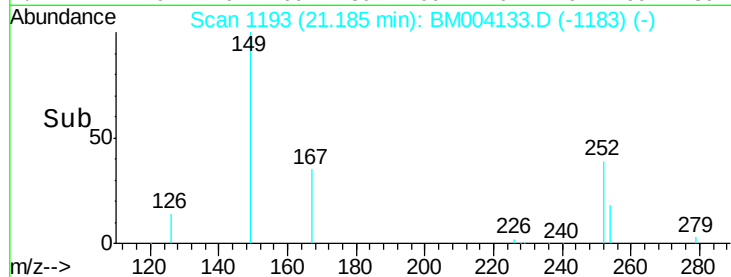
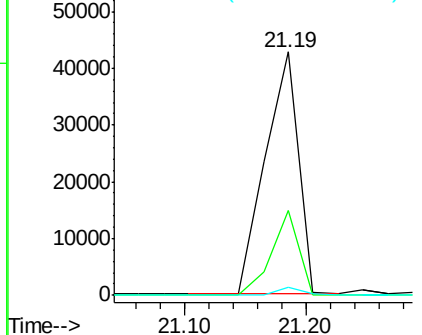
#33  
 Bis(2-ethylhexyl)phthalate  
 Concen: 3.91 ng  
 RT: 21.19 min Scan# 1193  
 Delta R.T. 0.00 min  
 Lab File: BM004133.D  
 Acq: 27 Jan 2016 14:25

Instrument :  
 BNA\_M  
 ClientSampleId :  
 PB87989BSD

Tgt Ion:149 Resp: 81719  
 Ion Ratio Lower Upper  
 149 100  
 167 28.6 20.1 30.1  
 279 2.5 1.8 2.6

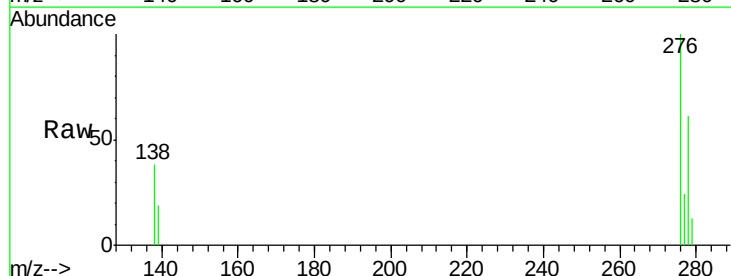


Abundance Ion 149.00 (148.70 to 149.70): E  
 Ion 167.00 (166.70 to 167.70): E  
 Ion 279.00 (278.70 to 279.70): E

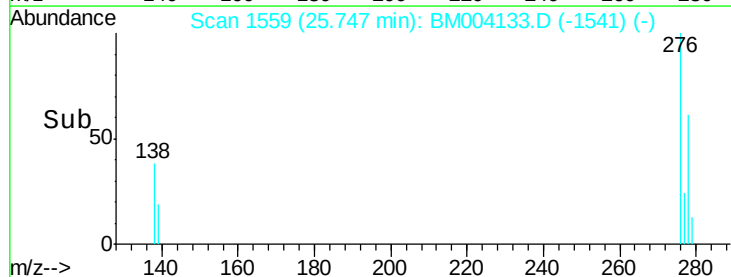
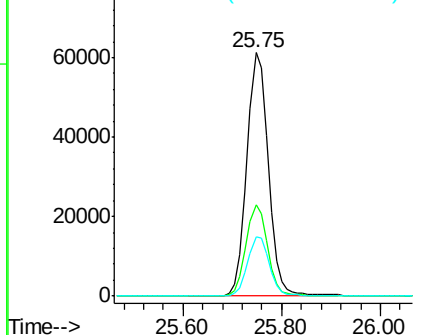


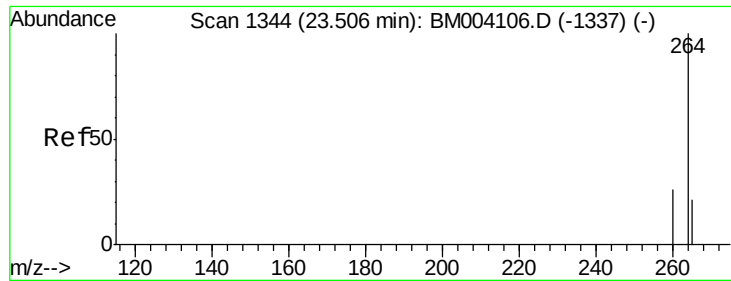
#34  
 Indeno(1,2,3-cd)pyrene  
 Concen: 3.66 ng  
 RT: 25.75 min Scan# 1559  
 Delta R.T. -0.01 min  
 Lab File: BM004133.D  
 Acq: 27 Jan 2016 14:25

Tgt Ion:276 Resp: 178734  
 Ion Ratio Lower Upper  
 276 100  
 138 37.5 30.2 45.2  
 277 24.7 19.8 29.8



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





#35

Perylene-d12

Concen: 5.00 ng

RT: 23.51 min Scan# 1344

Delta R.T. -0.00 min

Lab File: BM004133.D

Acq: 27 Jan 2016 14:25

Instrument :

BNA\_M

ClientSampleId :

PB87989BSD

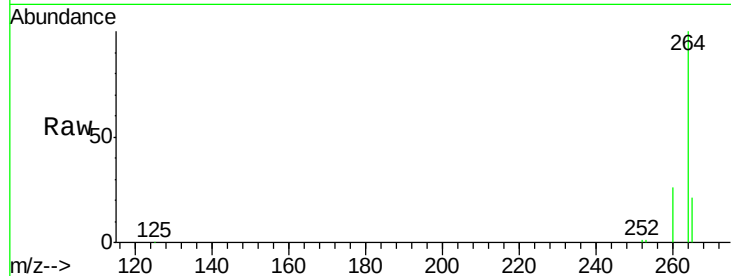
Tgt Ion:264 Resp: 143631

Ion Ratio Lower Upper

264 100

260 25.9 21.2 31.8

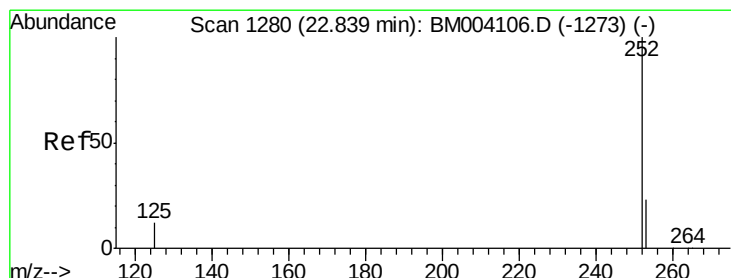
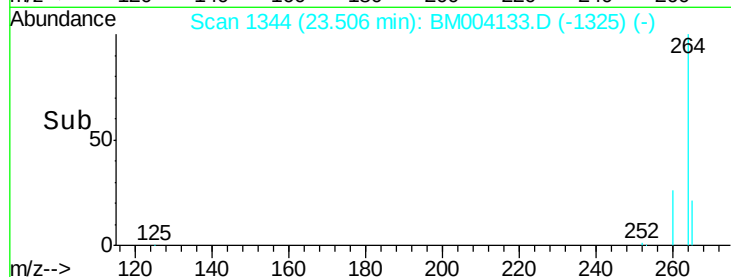
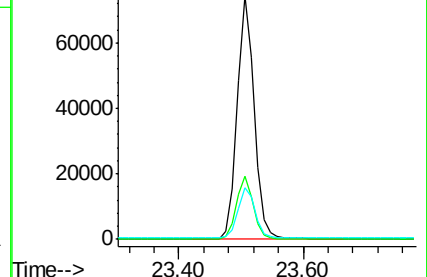
265 21.4 16.7 25.1



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



#36

Benzo(b)fluoranthene

Concen: 4.47 ng

RT: 22.83 min Scan# 1279

Delta R.T. -0.01 min

Lab File: BM004133.D

Acq: 27 Jan 2016 14:25

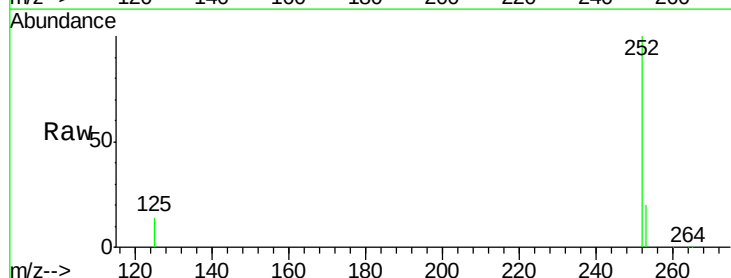
Tgt Ion:252 Resp: 198945

Ion Ratio Lower Upper

252 100

253 20.3 18.8 28.2

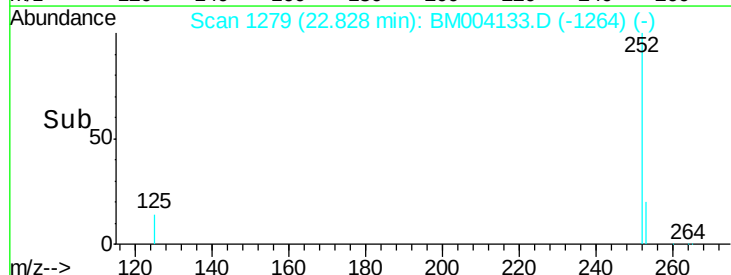
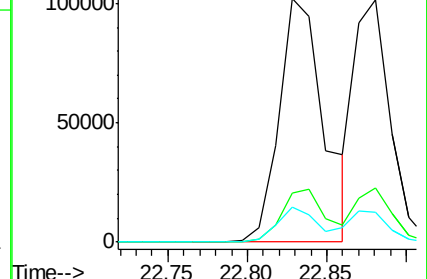
125 14.3 10.2 15.4

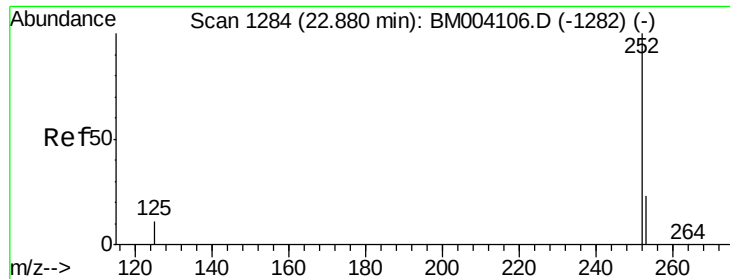


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#37

Benzo(k)fluoranthene

Concen: 3.96 ng

RT: 22.88 min Scan# 1284

Delta R.T. -0.00 min

Lab File: BM004133.D

Acq: 27 Jan 2016 14:25

Instrument :

BNA\_M

ClientSampleId :

PB87989BSD

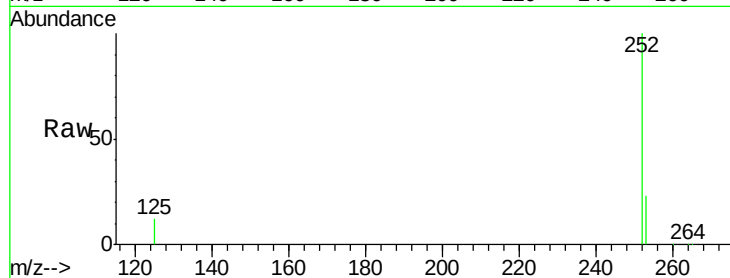
Tgt Ion:252 Resp: 159529

Ion Ratio Lower Upper

252 100

253 22.6 18.3 27.5

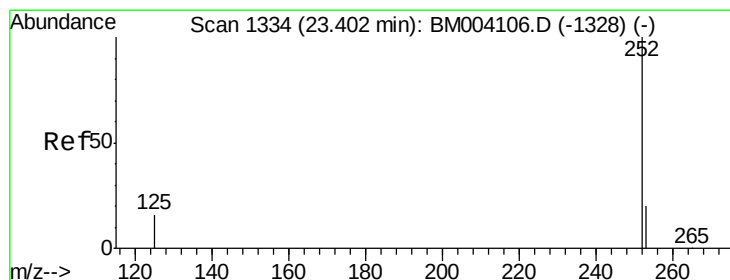
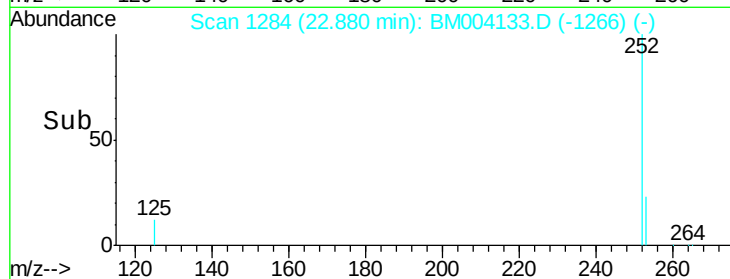
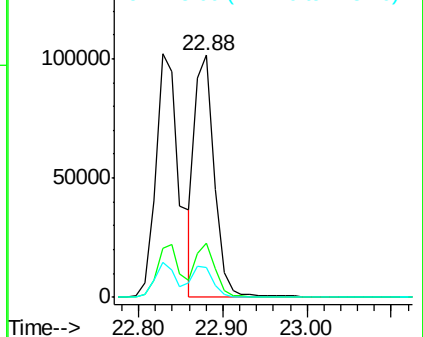
125 12.3 10.6 15.8



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



#38

Benzo(a)pyrene

Concen: 4.31 ng

RT: 23.40 min Scan# 1334

Delta R.T. -0.00 min

Lab File: BM004133.D

Acq: 27 Jan 2016 14:25

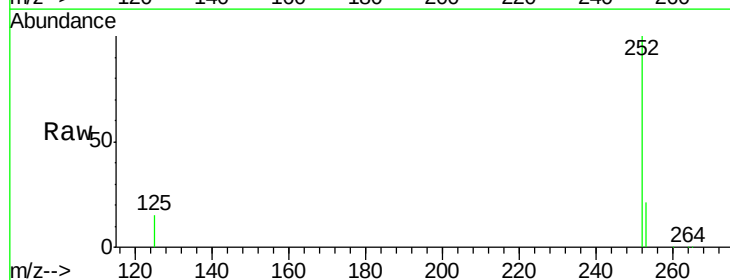
Tgt Ion:252 Resp: 169228

Ion Ratio Lower Upper

252 100

253 20.8 18.7 28.1

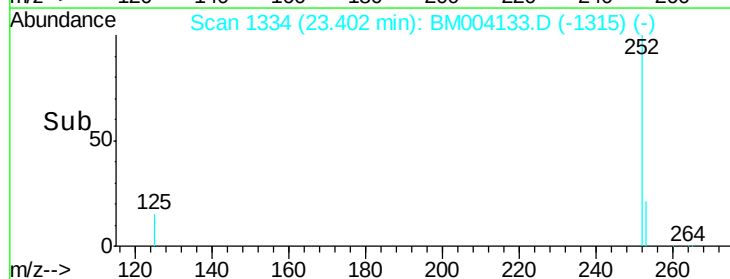
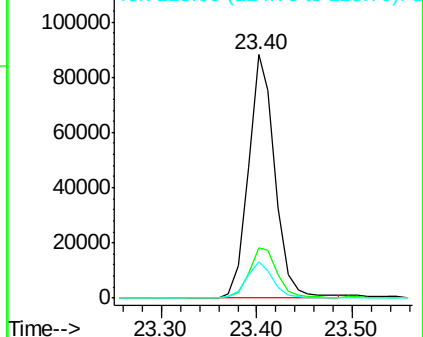
125 15.1 11.8 17.8

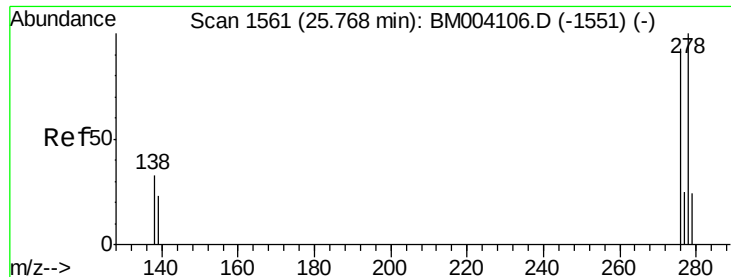


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#39

Dibenzo(a,h)anthracene

Concen: 4.05 ng

RT: 25.76 min Scan# 1560

Delta R.T. -0.01 min

Lab File: BM004133.D

Acq: 27 Jan 2016 14:25

Instrument :

BNA\_M

ClientSampleId :

PB87989BSD

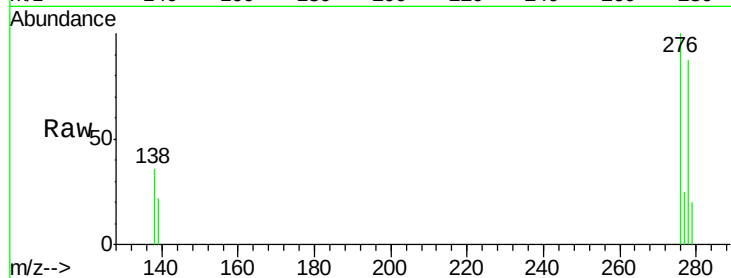
Tgt Ion: 278 Resp: 142682

Ion Ratio Lower Upper

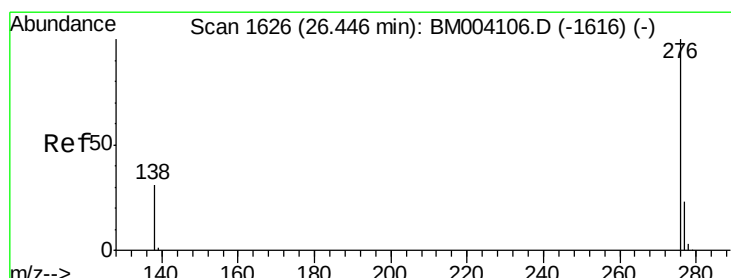
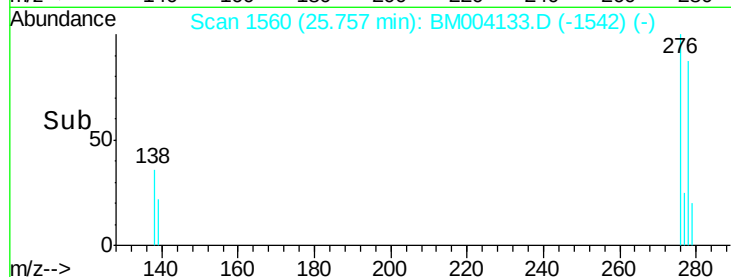
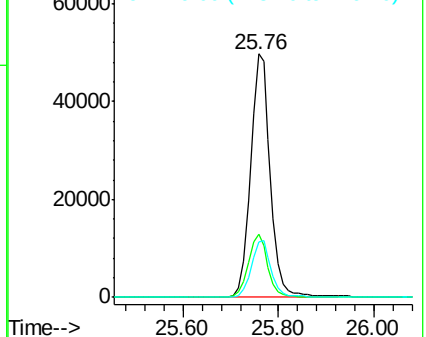
278 100

139 25.8 19.0 28.6

279 23.0 19.6 29.4



Abundance Ion 278.00 (277.70 to 278.70): E  
Ion 139.00 (138.70 to 139.70): E  
Ion 279.00 (278.70 to 279.70): E



#40

Benzo(g,h,i)perylene

Concen: 3.94 ng

RT: 26.44 min Scan# 1625

Delta R.T. -0.01 min

Lab File: BM004133.D

Acq: 27 Jan 2016 14:25

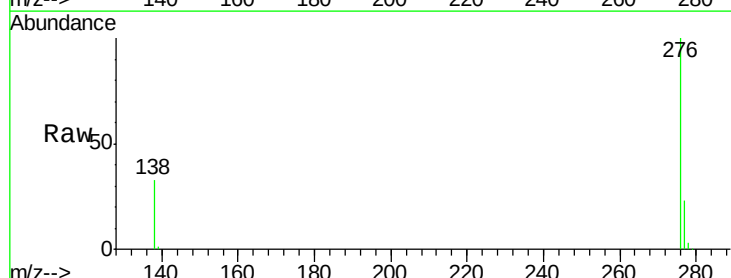
Tgt Ion: 276 Resp: 151728

Ion Ratio Lower Upper

276 100

277 23.3 19.1 28.7

138 32.8 25.0 37.4



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

