

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM113015\  
 Data File : BM003322.D  
 Acq On : 30 Nov 2015 16:32  
 Operator : UM/IZ  
 Sample : G4221-26  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 PT-PAH-SOIL

Quant Time: Dec 01 02:46:44 2015  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\8270-SIM-BM112715.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Nov 27 16:36:40 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.72  | 152  | 71681    | 5.00 | ng    | -0.02    |
| 7) Naphthalene-d8         | 10.51 | 136  | 304035   | 5.00 | ng    | -0.02    |
| 13) Acenaphthene-d10      | 14.38 | 164  | 154148   | 5.00 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 17.12 | 188  | 322261   | 5.00 | ng    | 0.00     |
| 26) Chrysene-d12          | 21.32 | 240  | 237160   | 5.00 | ng    | 0.00     |
| 35) Perylene-d12          | 23.59 | 264  | 211782   | 5.00 | ng    | 0.00     |

|                             |       |     |        |       |    |       |
|-----------------------------|-------|-----|--------|-------|----|-------|
| System Monitoring Compounds |       |     |        |       |    |       |
| 4) 2-Fluorophenol           | 5.30  | 112 | 111164 | 7.86  | ng | -0.02 |
| 5) Phenol-d6                | 6.88  | 99  | 156198 | 9.63  | ng | -0.02 |
| 8) Nitrobenzene-d5          | 8.88  | 82  | 65090  | 4.81  | ng | 0.00  |
| 14) 2,4,6-Tribromophenol    | 15.87 | 330 | 40722  | 11.28 | ng | 0.00  |
| 15) 2-Fluorobiphenyl        | 12.99 | 172 | 203665 | 4.09  | ng | -0.01 |
| 29) Terphenyl-d14           | 19.76 | 244 | 153837 | 4.65  | ng | 0.00  |

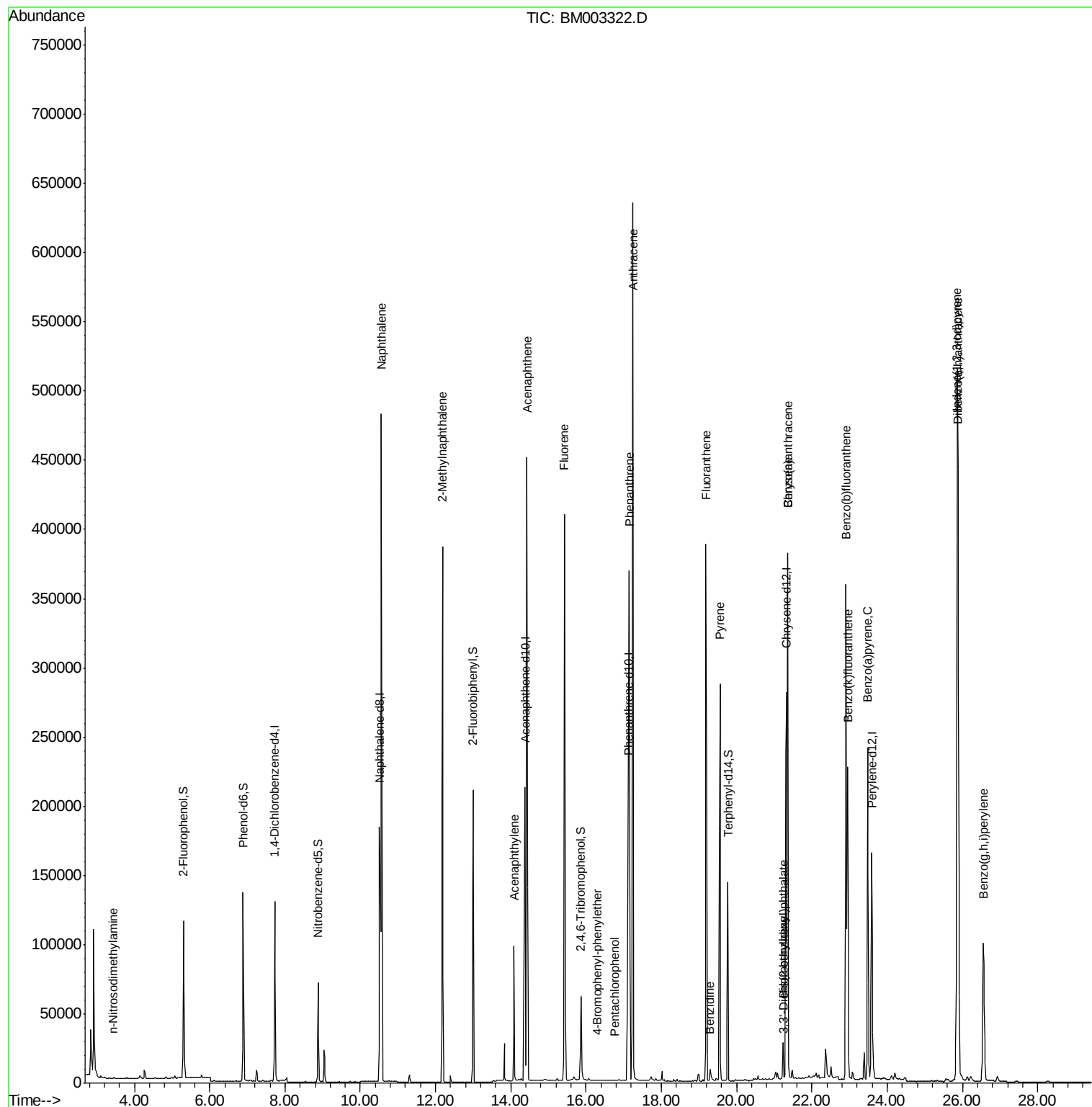
|                                |       |     |        |       |    |        |
|--------------------------------|-------|-----|--------|-------|----|--------|
| Target Compounds               |       |     |        |       |    | Qvalue |
| 3) n-Nitrosodimethylamine      | 3.44  | 42  | 338    | 0.05  | ng | # 1    |
| 10) Naphthalene                | 10.56 | 128 | 657153 | 10.00 | ng | 100    |
| 12) 2-Methylnaphthalene        | 12.18 | 142 | 284665 | 6.91  | ng | 99     |
| 16) Acenaphthylene             | 14.09 | 152 | 137803 | 2.44  | ng | 99     |
| 17) Acenaphthene               | 14.42 | 154 | 273161 | 6.27  | ng | # 100  |
| 18) Fluorene                   | 15.42 | 166 | 274050 | 6.23  | ng | 98     |
| 20) 4-Bromophenyl-phenylether  | 16.30 | 248 | 61     | 0.22  | ng | # 42   |
| 22) Pentachlorophenol          | 16.76 | 266 | 232    | 0.16  | ng | # 82   |
| 23) Phenanthrene               | 17.15 | 178 | 520070 | 7.01  | ng | 99     |
| 24) Anthracene                 | 17.25 | 178 | 775701 | 12.90 | ng | 100    |
| 25) Fluoranthene               | 19.18 | 202 | 453245 | 6.45  | ng | 100    |
| 27) Benzidine                  | 19.28 | 184 | 569    | 0.17  | ng | # 1    |
| 28) Pyrene                     | 19.56 | 202 | 325905 | 4.50  | ng | 98     |
| 30) Benzo(a)anthracene         | 21.36 | 228 | 599394 | 9.98  | ng | # 93   |
| 31) 3,3'-Dichlorobenzidine     | 21.26 | 252 | 108    | 0.17  | ng | # 54   |
| 32) Chrysene                   | 21.36 | 228 | 599452 | 8.92  | ng | 92     |
| 33) Bis(2-ethylhexyl)phthalate | 21.24 | 149 | 27102  | 1.42  | ng | # 93   |
| 34) Indeno(1,2,3-cd)pyrene     | 25.86 | 276 | 525821 | 9.55  | ng | # 78   |
| 36) Benzo(b)fluoranthene       | 22.90 | 252 | 506334 | 8.31  | ng | 96     |
| 37) Benzo(k)fluoranthene       | 22.95 | 252 | 257139 | 4.69  | ng | 98     |
| 38) Benzo(a)pyrene             | 23.48 | 252 | 331785 | 6.83  | ng | 98     |
| 39) Dibenzo(a,h)anthracene     | 25.88 | 278 | 488852 | 11.64 | ng | 98     |
| 40) Benzo(g,h,i)perylene       | 26.56 | 276 | 197909 | 3.93  | ng | 96     |

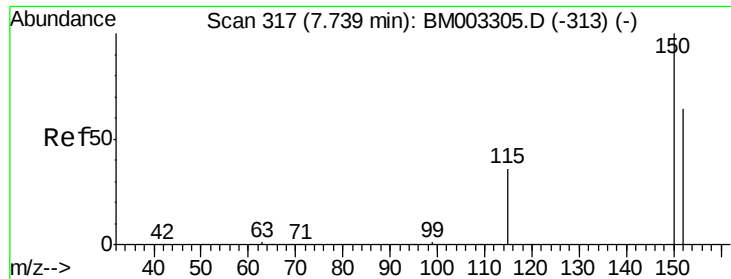
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Nov 27 16:36:40 2015  
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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.72 min Scan# 316

Delta R.T. -0.02 min

Lab File: BM003322.D

Acq: 30 Nov 2015 16:32

Instrument :

BNA\_M

ClientSampleId :

PT-PAH-SOIL

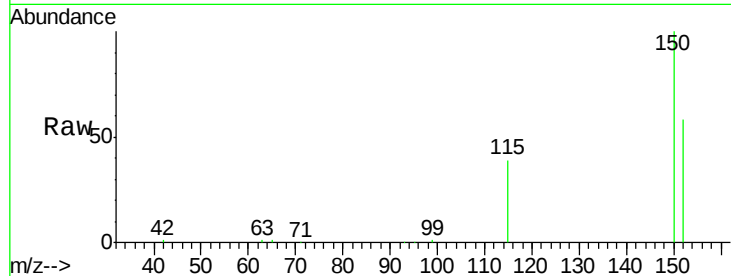
Tgt Ion:152 Resp: 71681

Ion Ratio Lower Upper

152 100

150 172.6 143.6 215.4

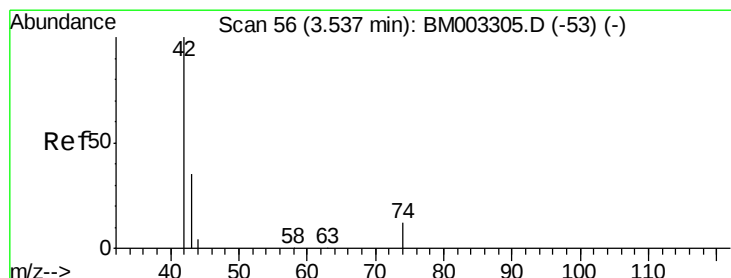
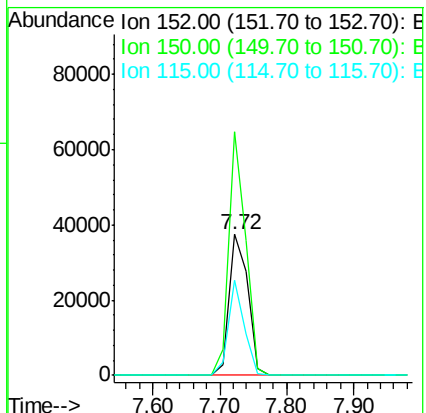
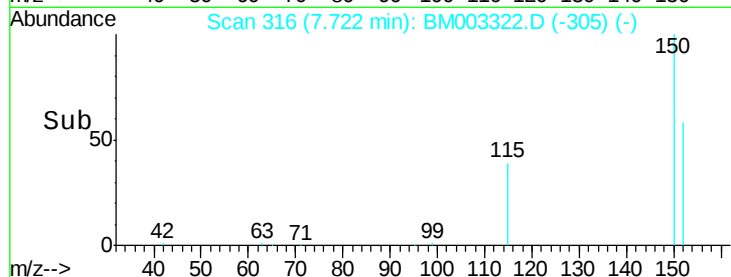
115 67.5 58.5 87.7



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



#3

n-Nitrosodimethylamine

Concen: 0.05 ng

RT: 3.44 min Scan# 50

Delta R.T. -0.09 min

Lab File: BM003322.D

Acq: 30 Nov 2015 16:32

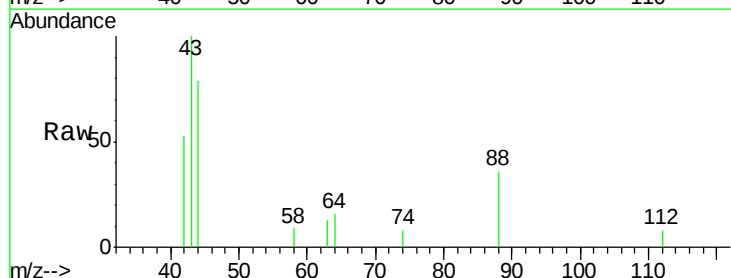
Tgt Ion: 42 Resp: 338

Ion Ratio Lower Upper

42 100

74 0.6 101.0 151.4#

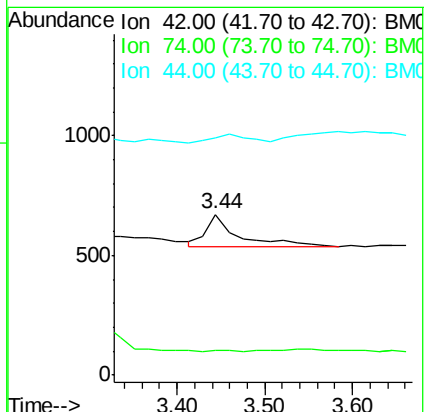
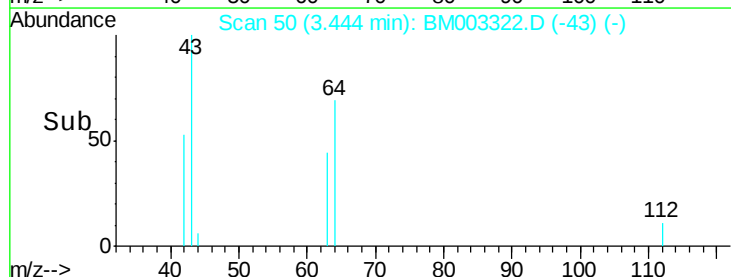
44 30.8 6.3 9.5#

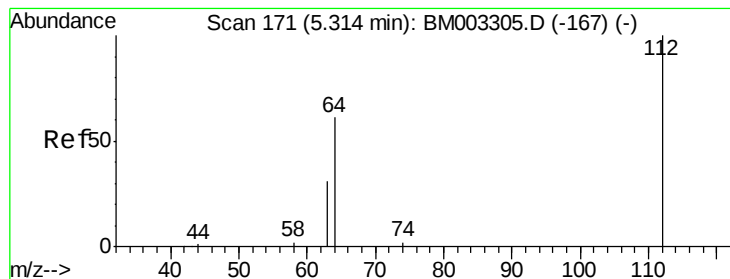


Abundance Ion 42.00 (41.70 to 42.70): BM0

Ion 74.00 (73.70 to 74.70): BM0

Ion 44.00 (43.70 to 44.70): BM0





#4

2-Fluorophenol

Concen: 7.86 ng

RT: 5.30 min Scan# 170

Delta R.T. -0.02 min

Lab File: BM003322.D

Acq: 30 Nov 2015 16:32

Instrument :

BNA\_M

ClientSampleId :

PT-PAH-SOIL

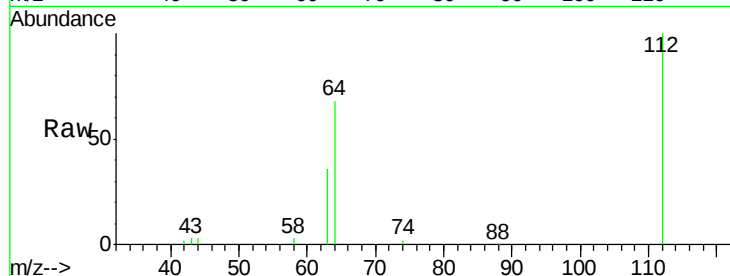
Tgt Ion: 112 Resp: 111164

Ion Ratio Lower Upper

112 100

64 51.1 41.2 61.8

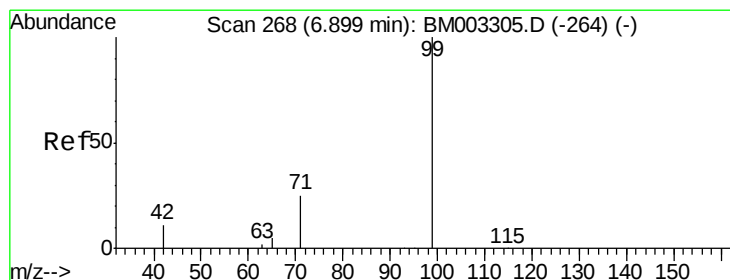
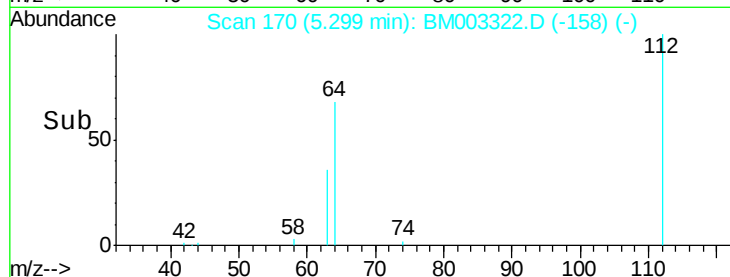
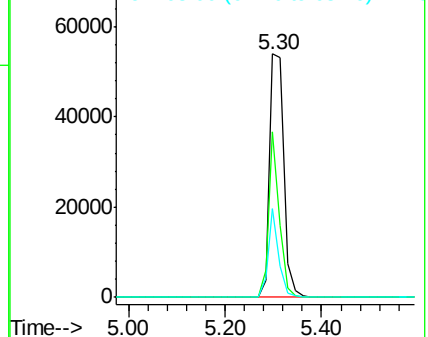
63 26.5 21.2 31.8



Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BM0

Ion 63.00 (62.70 to 63.70): BM0



#5

Phenol-d6

Concen: 9.63 ng

RT: 6.88 min Scan# 267

Delta R.T. -0.02 min

Lab File: BM003322.D

Acq: 30 Nov 2015 16:32

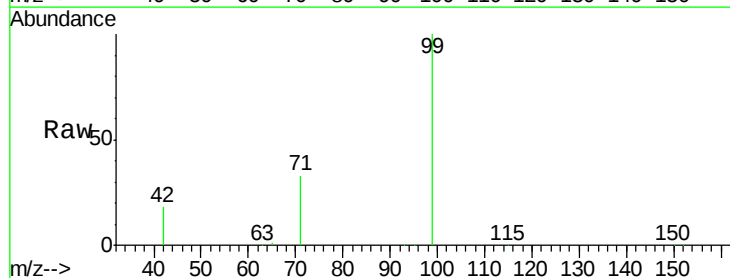
Tgt Ion: 99 Resp: 156198

Ion Ratio Lower Upper

99 100

42 17.4 14.6 22.0

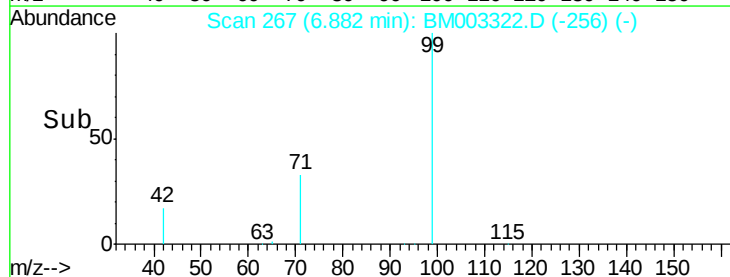
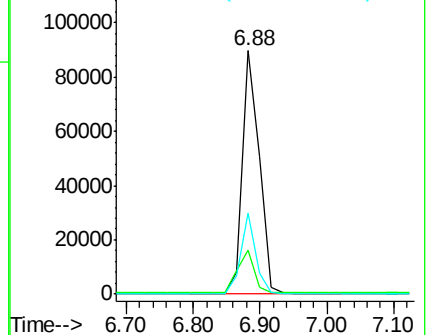
71 29.5 23.3 34.9

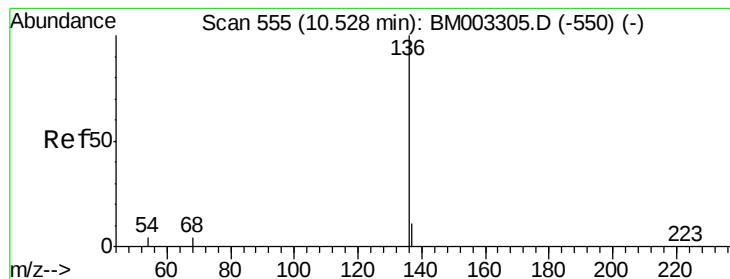


Abundance Ion 99.00 (98.70 to 99.70): BM0

Ion 42.00 (41.70 to 42.70): BM0

Ion 71.00 (70.70 to 71.70): BM0





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.51 min Scan# 553

Delta R.T. -0.02 min

Lab File: BM003322.D

Acq: 30 Nov 2015 16:32

Instrument :

BNA\_M

ClientSampleId :

PT-PAH-SOIL

Tgt Ion:136 Resp: 304035

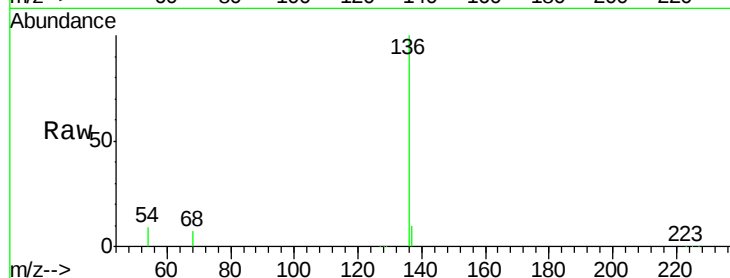
Ion Ratio Lower Upper

136 100

137 10.0 8.0 12.0

54 9.2 7.4 11.0

68 7.2 5.8 8.6

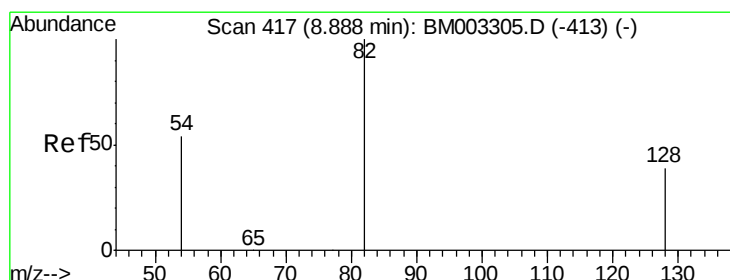
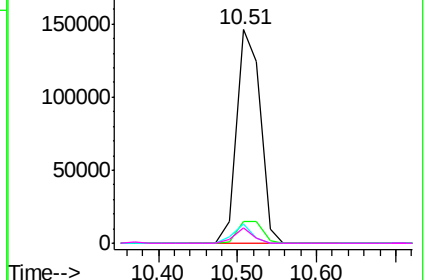
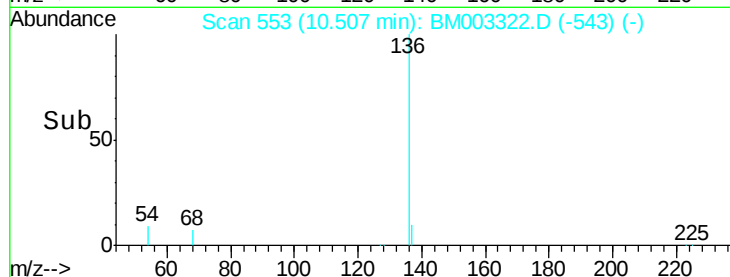


Abundance Ion 136.00 (135.70 to 136.70): E

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: 4.81 ng

RT: 8.88 min Scan# 416

Delta R.T. -0.00 min

Lab File: BM003322.D

Acq: 30 Nov 2015 16:32

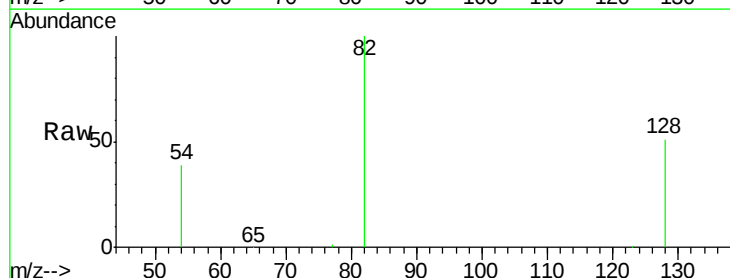
Tgt Ion: 82 Resp: 65090

Ion Ratio Lower Upper

82 100

128 51.0 35.2 52.8

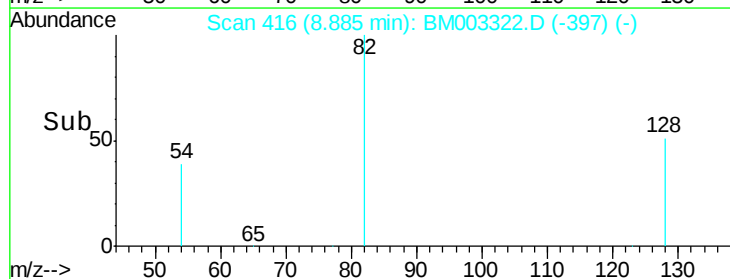
54 39.0 36.4 54.6



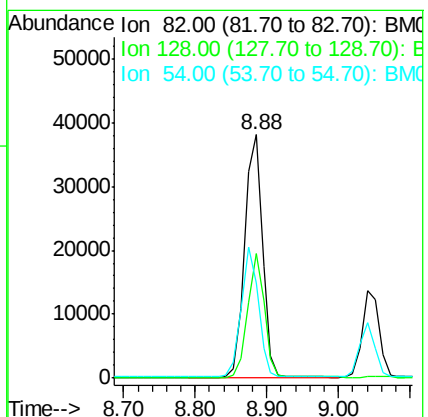
Abundance Ion 82.00 (81.70 to 82.70): BM

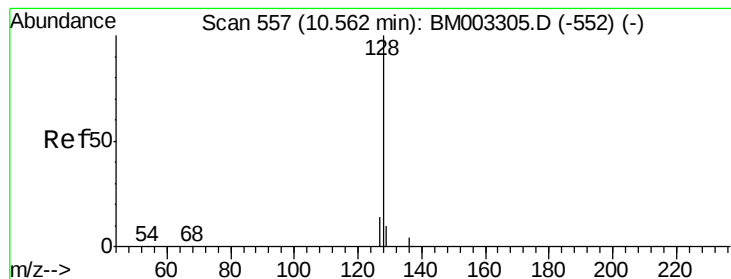
Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BM



Time-->





#10

Naphthalene

Concen: 10.00 ng

RT: 10.56 min Scan# 556

Delta R.T. -0.00 min

Lab File: BM003322.D

Acq: 30 Nov 2015 16:32

Instrument :

BNA\_M

ClientSampleId :

PT-PAH-SOIL

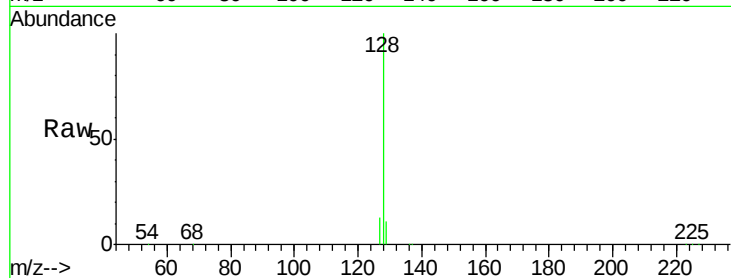
Tgt Ion:128 Resp: 657153

Ion Ratio Lower Upper

128 100

129 10.6 8.5 12.7

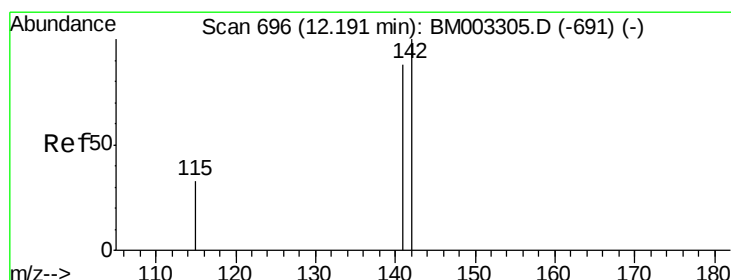
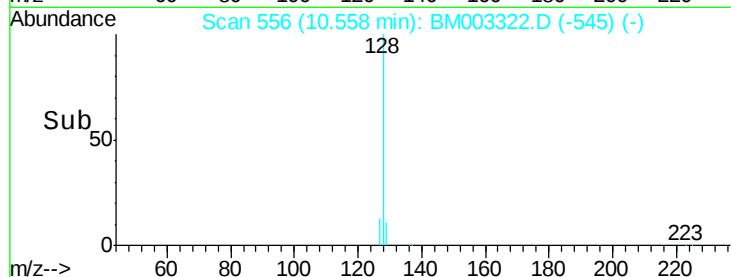
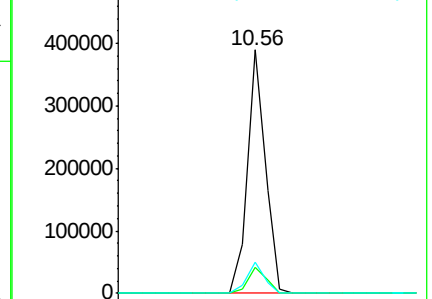
127 13.0 10.6 16.0



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



#12

2-Methylnaphthalene

Concen: 6.91 ng

RT: 12.18 min Scan# 695

Delta R.T. -0.01 min

Lab File: BM003322.D

Acq: 30 Nov 2015 16:32

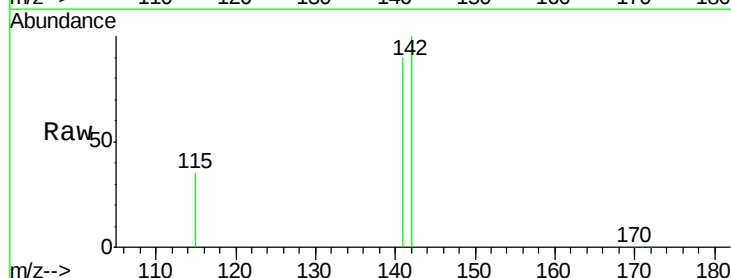
Tgt Ion:142 Resp: 284665

Ion Ratio Lower Upper

142 100

141 89.5 72.2 108.2

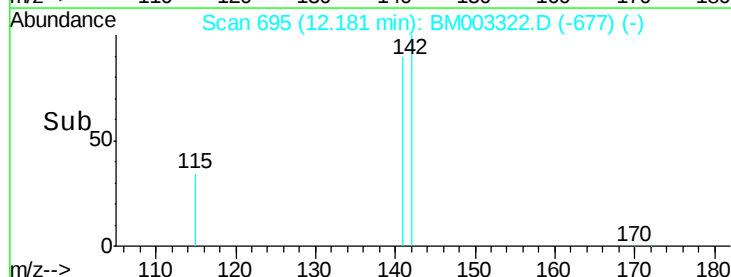
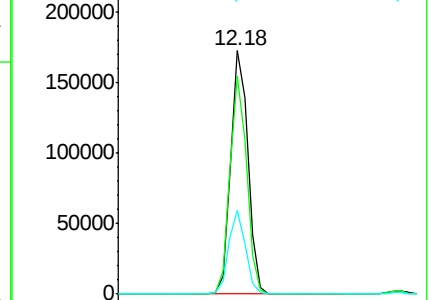
115 34.5 28.0 42.0

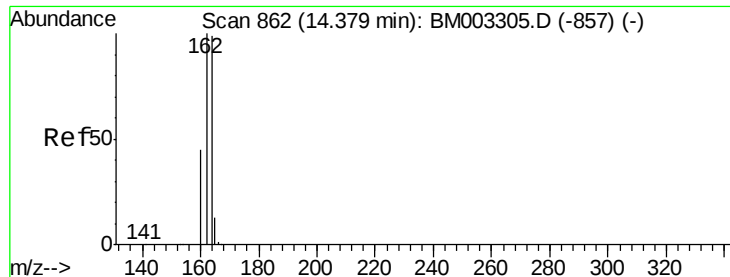


Abundance Ion 142.00 (141.70 to 142.70): E

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: 14.38 min Scan# 862

Delta R.T. -0.00 min

Lab File: BM003322.D

Acq: 30 Nov 2015 16:32

Instrument :

BNA\_M

ClientSampleId :

PT-PAH-SOIL

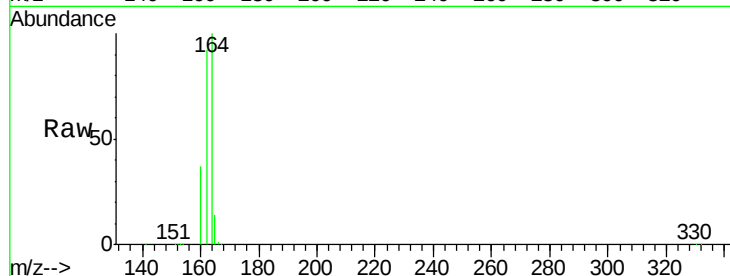
Tgt Ion:164 Resp: 154148

Ion Ratio Lower Upper

164 100

162 91.7 78.3 117.5

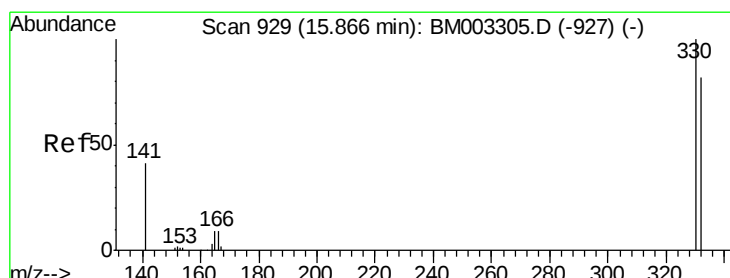
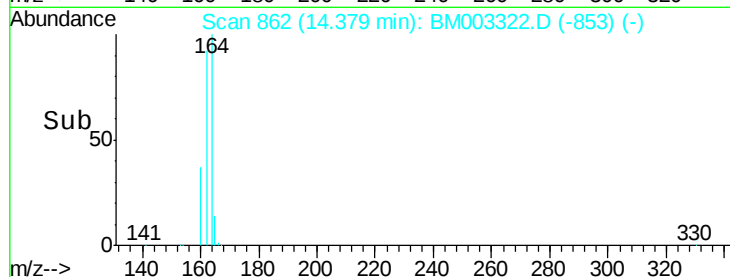
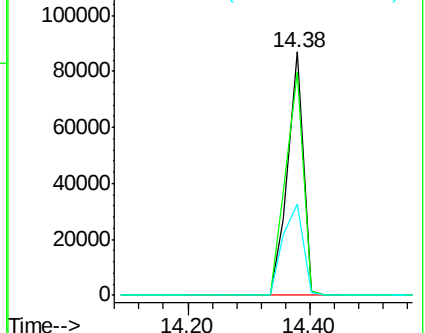
160 37.3 33.8 50.6



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



#14

2,4,6-Tribromophenol

Concen: 11.28 ng

RT: 15.87 min Scan# 929

Delta R.T. 0.00 min

Lab File: BM003322.D

Acq: 30 Nov 2015 16:32

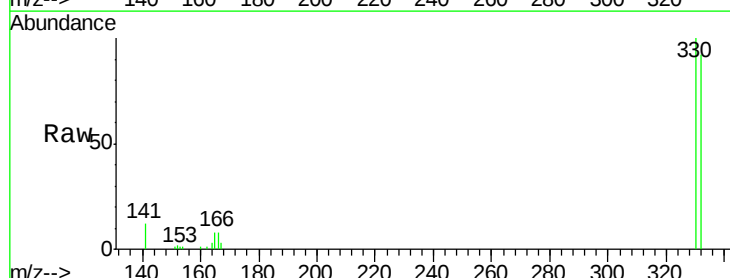
Tgt Ion:330 Resp: 40722

Ion Ratio Lower Upper

330 100

332 94.8 76.0 114.0

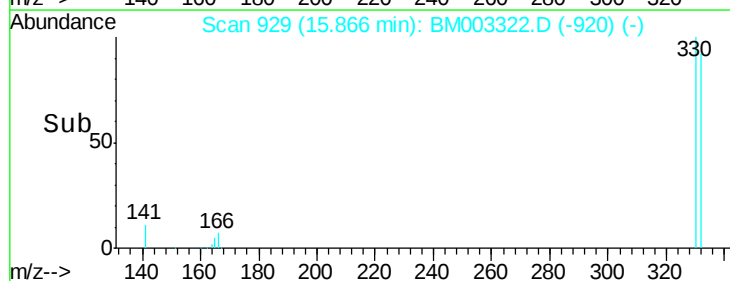
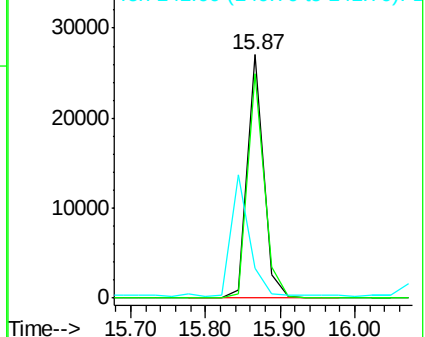
141 0.0 0.0 0.0

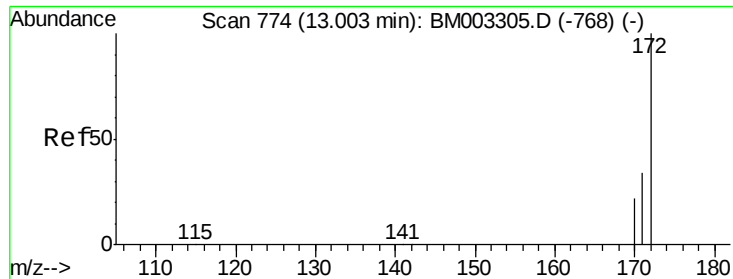


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

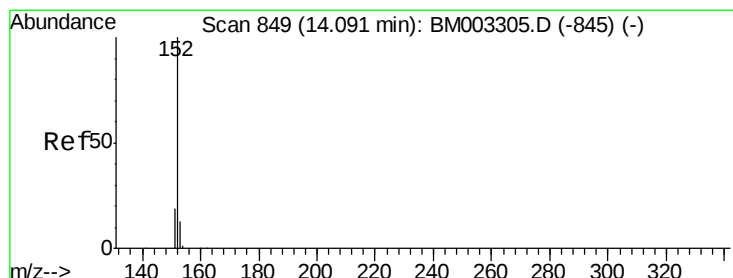
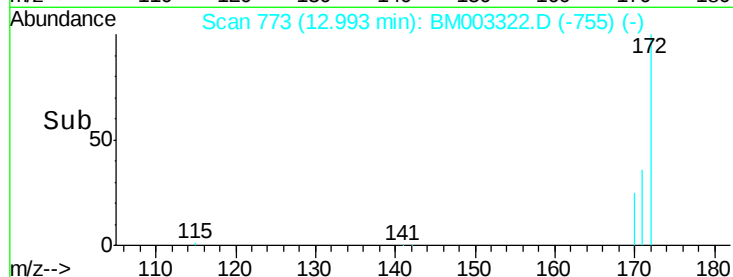
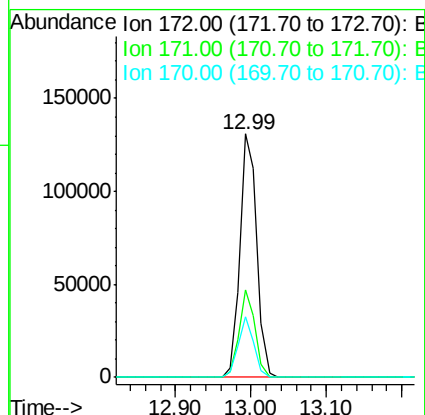
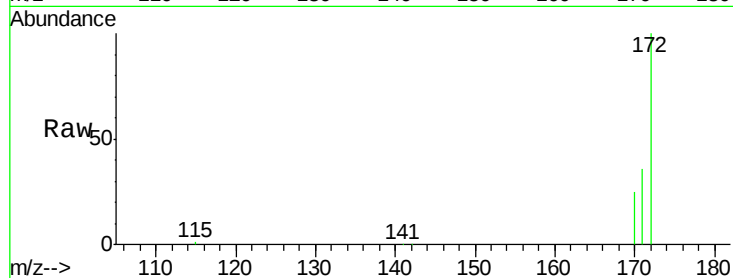




#15  
2-Fluorobiphenyl  
Concen: 4.09 ng  
RT: 12.99 min Scan# 773  
Delta R.T. -0.01 min  
Lab File: BM003322.D  
Acq: 30 Nov 2015 16:32

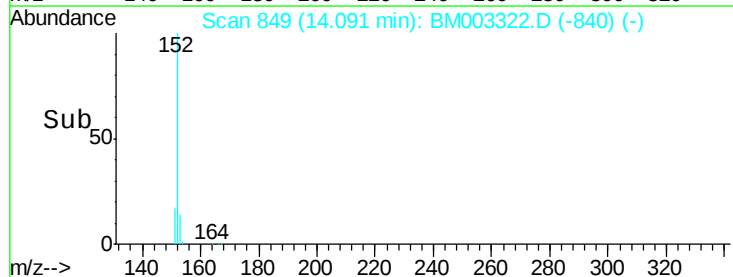
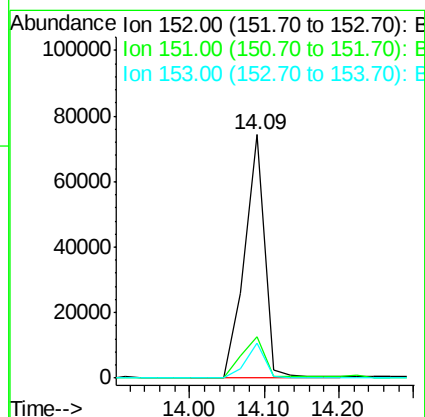
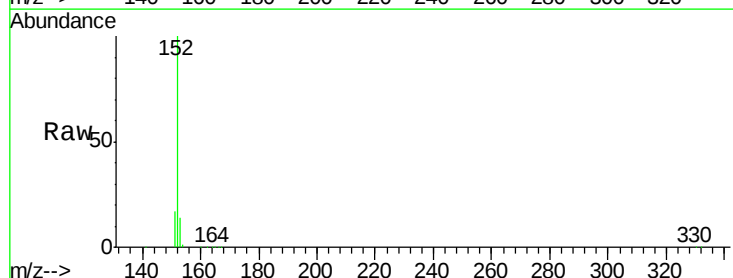
Instrument :  
BNA\_M  
ClientSampleId :  
PT-PAH-SOIL

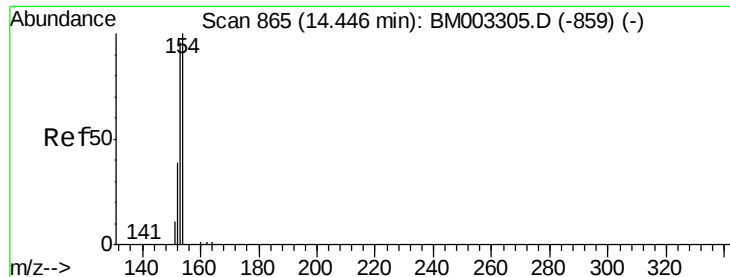
Tgt Ion:172 Resp: 203665  
Ion Ratio Lower Upper  
172 100  
171 35.9 28.0 42.0  
170 25.0 18.9 28.3



#16  
Acenaphthylene  
Concen: 2.44 ng  
RT: 14.09 min Scan# 849  
Delta R.T. -0.00 min  
Lab File: BM003322.D  
Acq: 30 Nov 2015 16:32

Tgt Ion:152 Resp: 137803  
Ion Ratio Lower Upper  
152 100  
151 19.3 15.2 22.8  
153 13.2 10.4 15.6





#17

Acenaphthene

Concen: 6.27 ng

RT: 14.42 min Scan# 864

Delta R.T. -0.02 min

Lab File: BM003322.D

Acq: 30 Nov 2015 16:32

Instrument :

BNA\_M

ClientSampleId :

PT-PAH-SOIL

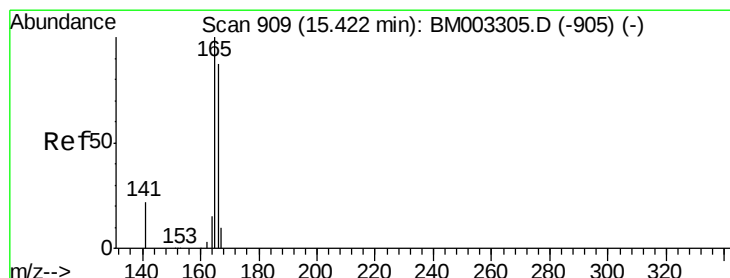
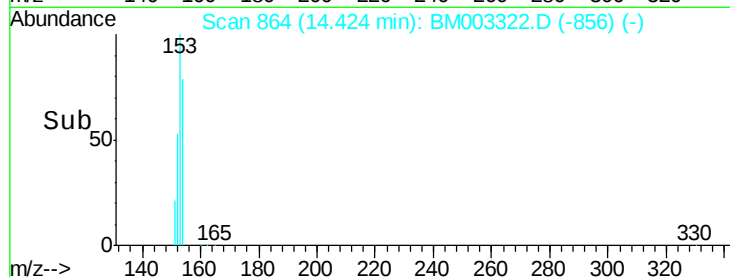
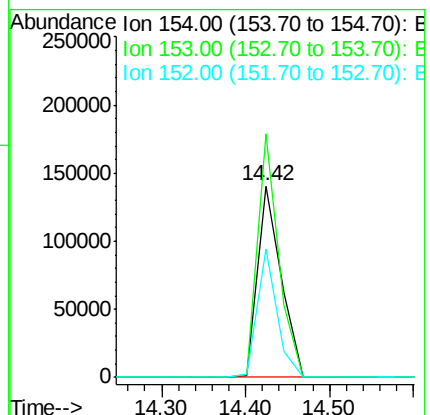
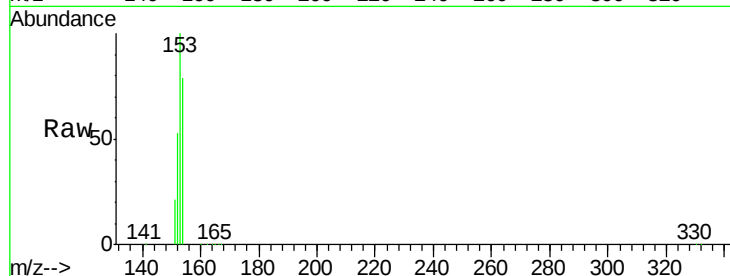
Tgt Ion:154 Resp: 273161

Ion Ratio Lower Upper

154 100

153 114.6 0.0 0.0#

152 56.1 0.0 0.0#



#18

Fluorene

Concen: 6.23 ng

RT: 15.42 min Scan# 909

Delta R.T. -0.00 min

Lab File: BM003322.D

Acq: 30 Nov 2015 16:32

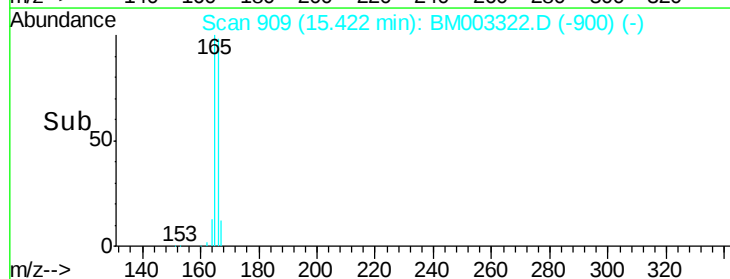
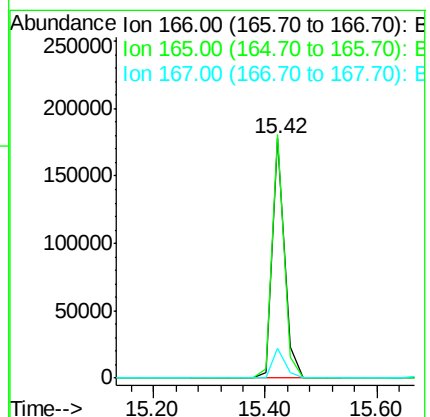
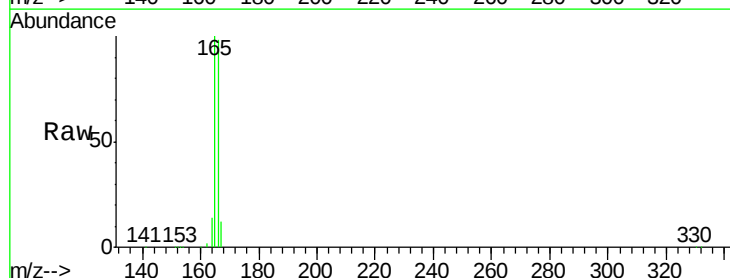
Tgt Ion:166 Resp: 274050

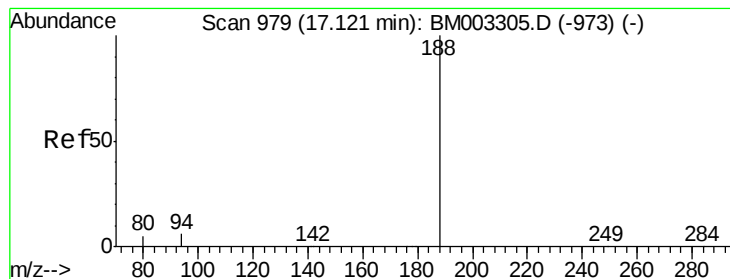
Ion Ratio Lower Upper

166 100

165 98.8 80.8 121.2

167 13.0 10.5 15.7





#19

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.12 min Scan# 979

Delta R.T. -0.00 min

Lab File: BM003322.D

Acq: 30 Nov 2015 16:32

Instrument :

BNA\_M

ClientSampleId :

PT-PAH-SOIL

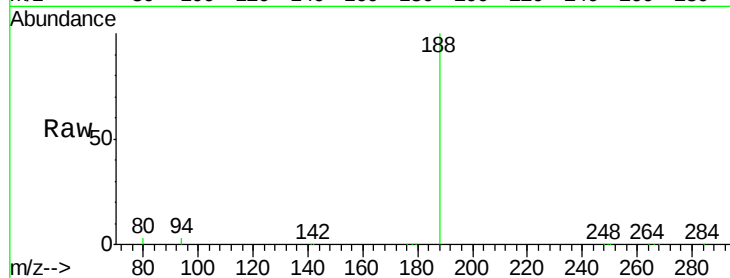
Tgt Ion:188 Resp: 322261

Ion Ratio Lower Upper

188 100

94 3.2 1.8 2.6#

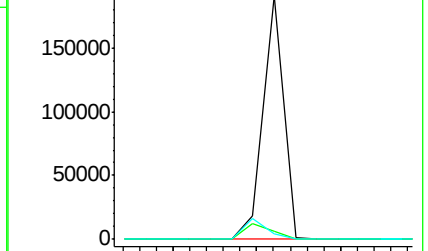
80 2.5 1.4 2.0#



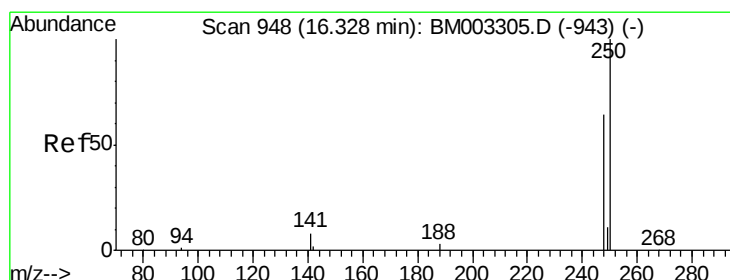
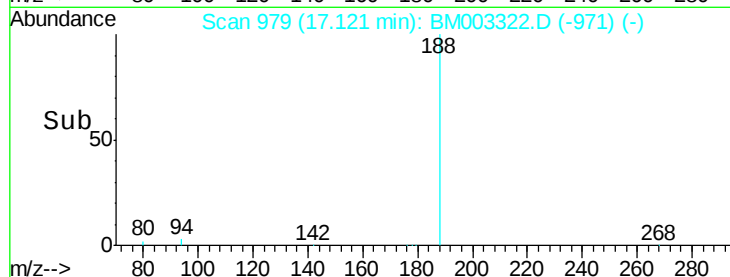
Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BM0

Ion 80.00 (79.70 to 80.70): BM0



Time-->



#20

4-Bromophenyl-phenylether

Concen: 0.22 ng

RT: 16.30 min Scan# 947

Delta R.T. -0.03 min

Lab File: BM003322.D

Acq: 30 Nov 2015 16:32

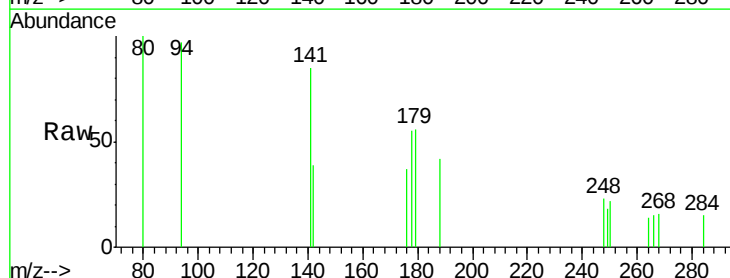
Tgt Ion:248 Resp: 61

Ion Ratio Lower Upper

248 100

250 65.6 65.4 98.0

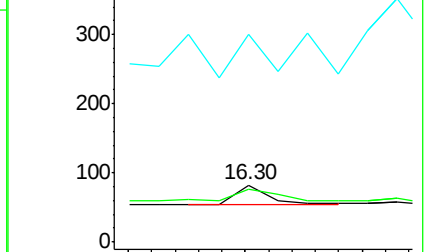
141 180.3 72.8 109.2#



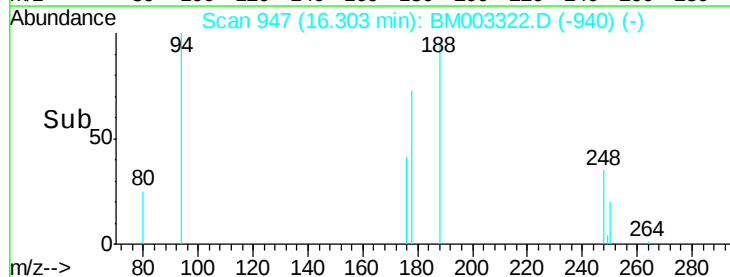
Abundance Ion 248.00 (247.70 to 248.70): E

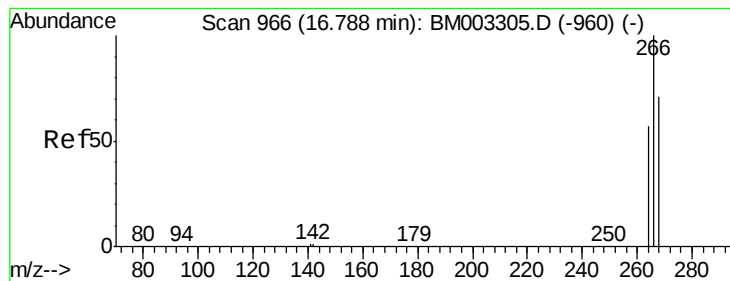
Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E



Time-->





#22

Pentachlorophenol

Concen: 0.16 ng

RT: 16.76 min Scan# 965

Delta R.T. -0.03 min

Lab File: BM003322.D

Acq: 30 Nov 2015 16:32

Instrument :

BNA\_M

ClientSampleId :

PT-PAH-SOIL

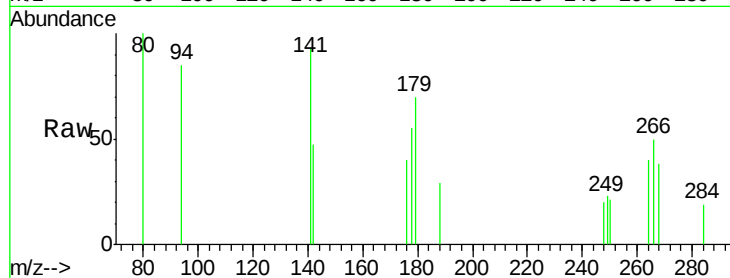
Tgt Ion:266 Resp: 232

Ion Ratio Lower Upper

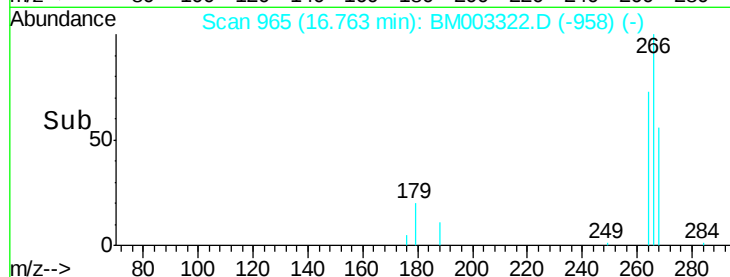
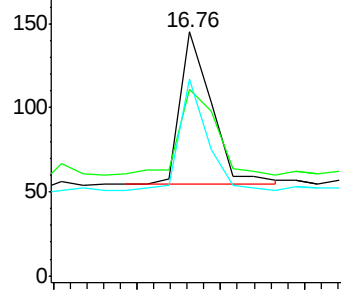
266 100

268 76.6 45.8 68.8#

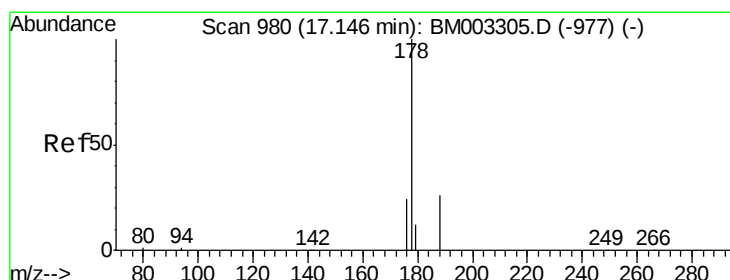
264 80.7 56.7 85.1



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



Time--> 16.60 16.70 16.80 16.90



#23

Phenanthrene

Concen: 7.01 ng

RT: 17.15 min Scan# 980

Delta R.T. 0.00 min

Lab File: BM003322.D

Acq: 30 Nov 2015 16:32

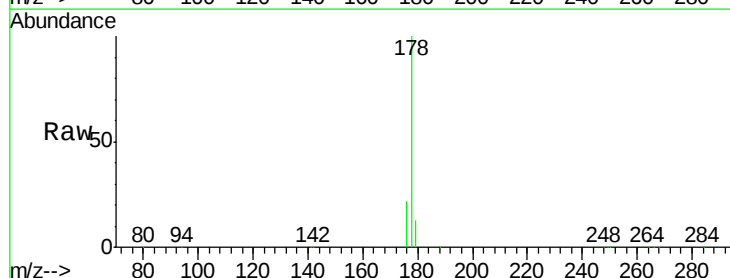
Tgt Ion:178 Resp: 520070

Ion Ratio Lower Upper

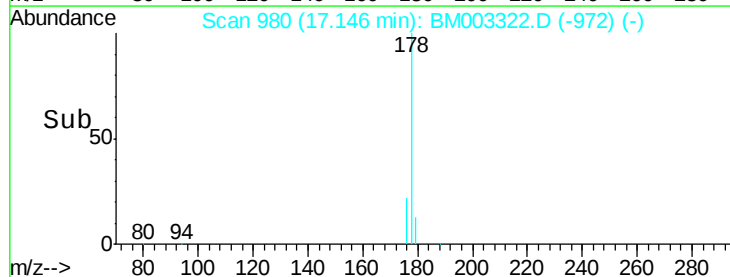
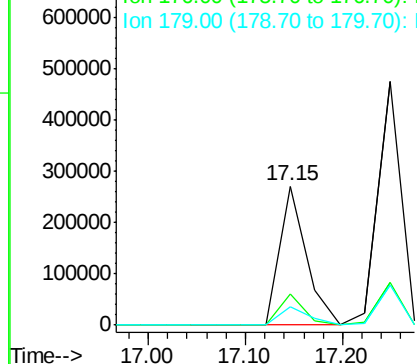
178 100

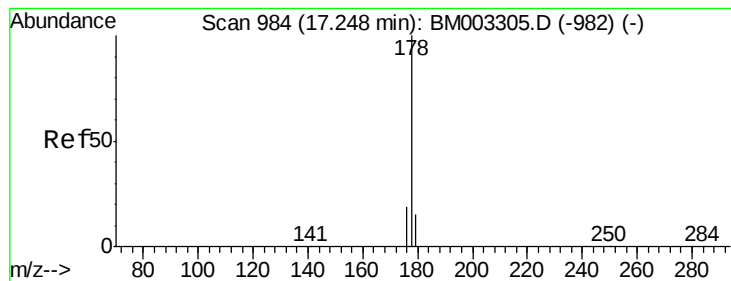
176 20.6 15.9 23.9

179 14.8 11.7 17.5



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





#24

Anthracene

Concen: 12.90 ng

RT: 17.25 min Scan# 984

Delta R.T. -0.00 min

Lab File: BM003322.D

Acq: 30 Nov 2015 16:32

Instrument :

BNA\_M

ClientSampleId :

PT-PAH-SOIL

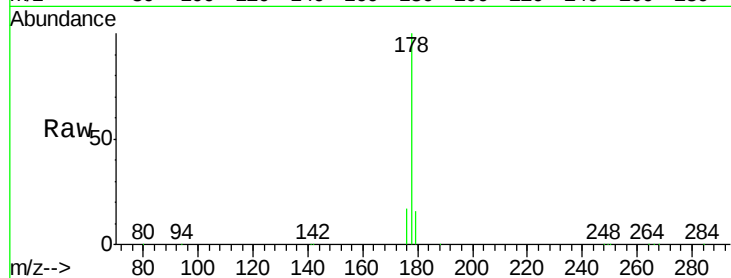
Tgt Ion:178 Resp: 775701

Ion Ratio Lower Upper

178 100

176 17.9 14.1 21.1

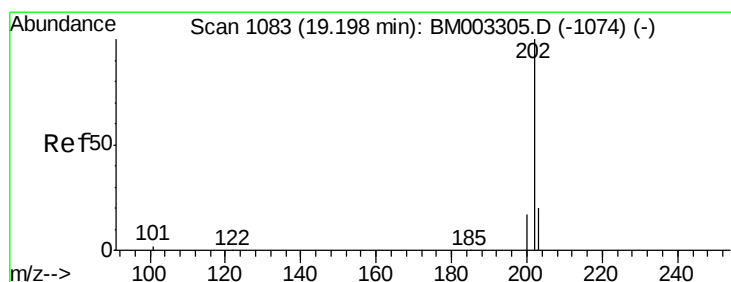
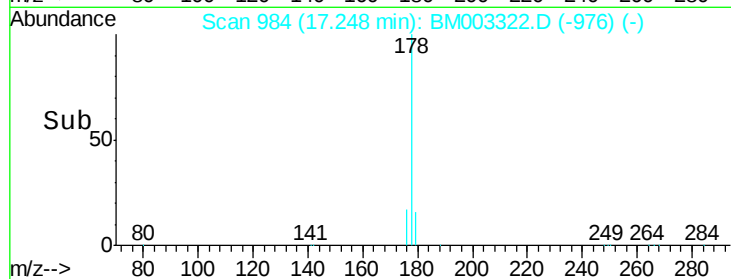
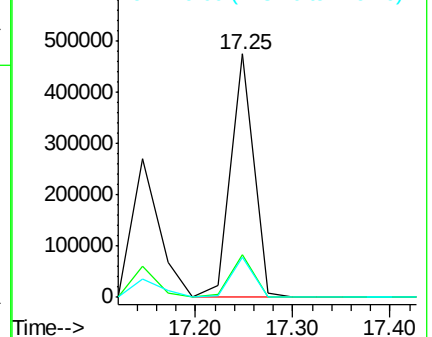
179 16.1 12.8 19.2



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



#25

Fluoranthene

Concen: 6.45 ng

RT: 19.18 min Scan# 1082

Delta R.T. -0.02 min

Lab File: BM003322.D

Acq: 30 Nov 2015 16:32

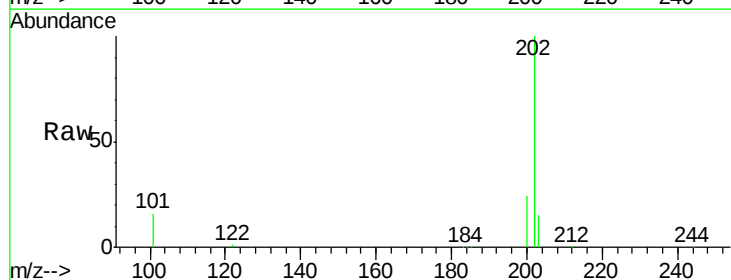
Tgt Ion:202 Resp: 453245

Ion Ratio Lower Upper

202 100

101 12.5 9.9 14.9

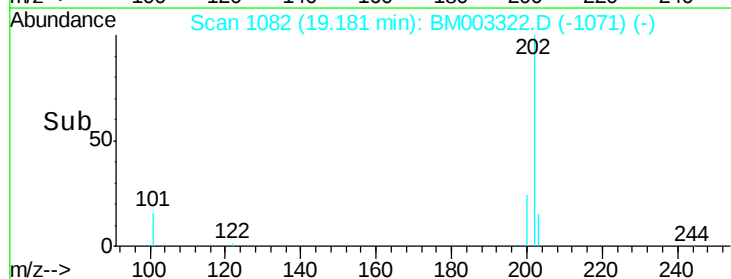
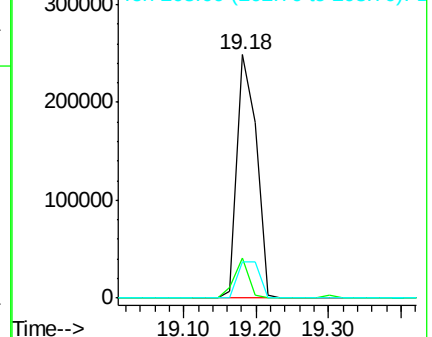
203 17.2 13.9 20.9

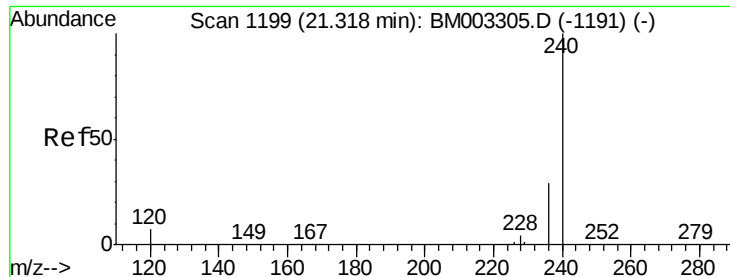


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

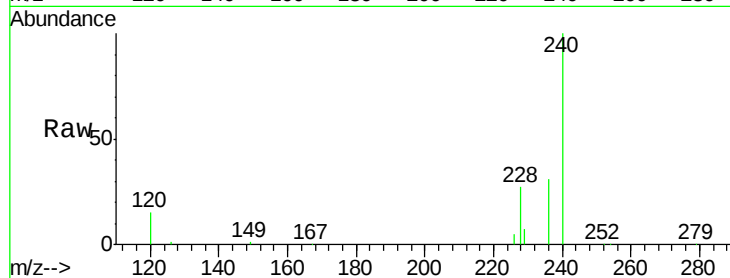




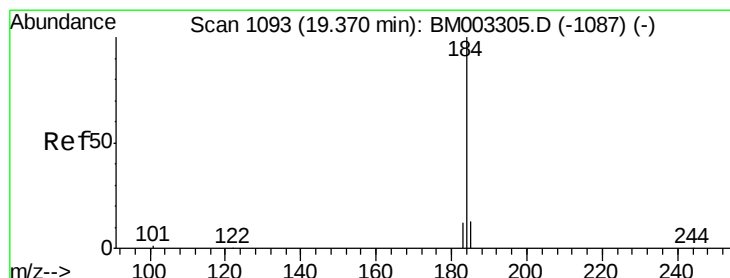
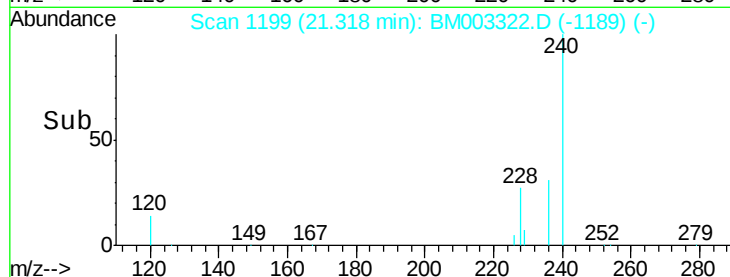
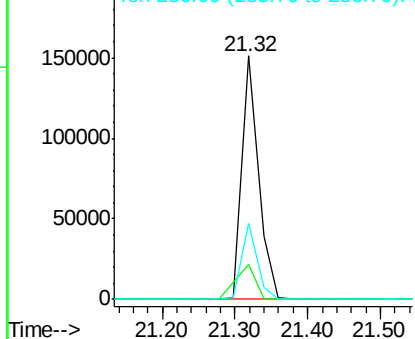
#26  
Chrysene-d12  
Concen: 5.00 ng  
RT: 21.32 min Scan# 1199  
Delta R.T. -0.00 min  
Lab File: BM003322.D  
Acq: 30 Nov 2015 16:32

Instrument :  
BNA\_M  
ClientSampleId :  
PT-PAH-SOIL

Tgt Ion:240 Resp: 237160  
Ion Ratio Lower Upper  
240 100  
120 14.6 1.0 1.4#  
236 31.3 17.9 26.9#

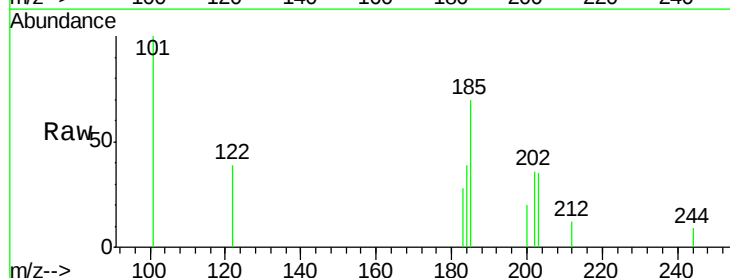


Abundance Ion 240.00 (239.70 to 240.70): E  
Ion 120.00 (119.70 to 120.70): E  
Ion 236.00 (235.70 to 236.70): E

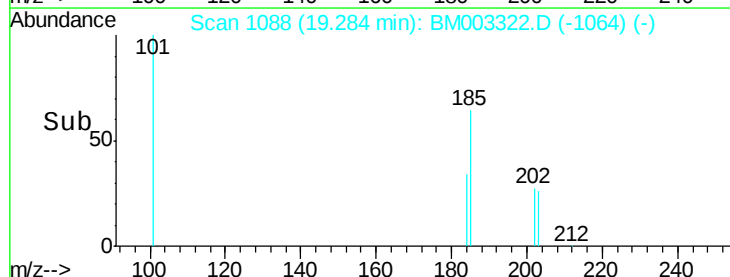
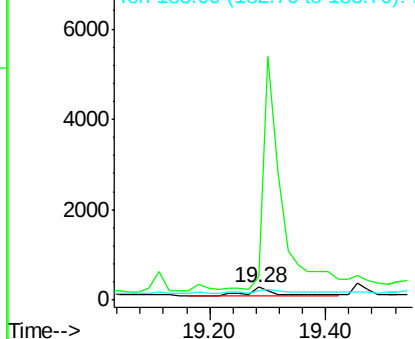


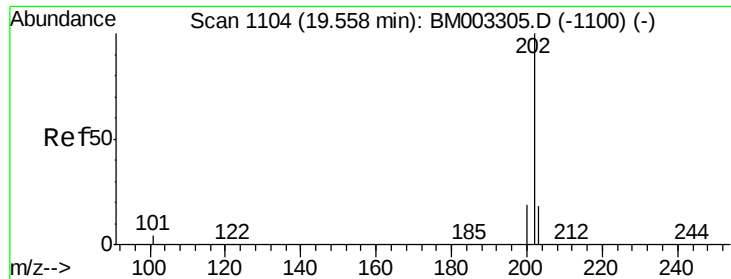
#27  
Benzidine  
Concen: 0.17 ng  
RT: 19.28 min Scan# 1088  
Delta R.T. -0.09 min  
Lab File: BM003322.D  
Acq: 30 Nov 2015 16:32

Tgt Ion:184 Resp: 569  
Ion Ratio Lower Upper  
184 100  
185 179.9 11.6 17.4#  
183 71.6 8.6 13.0#



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

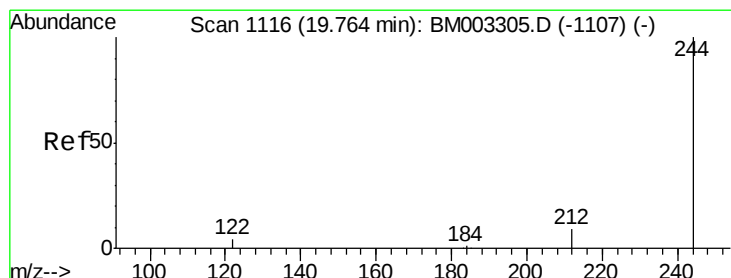
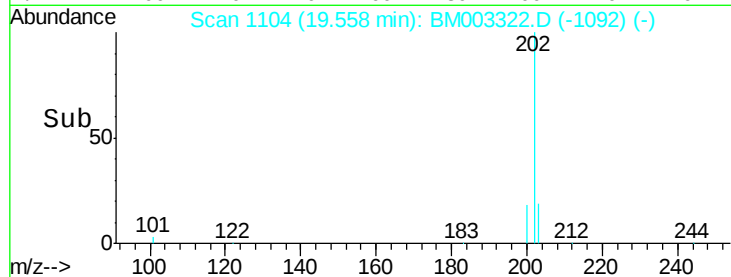
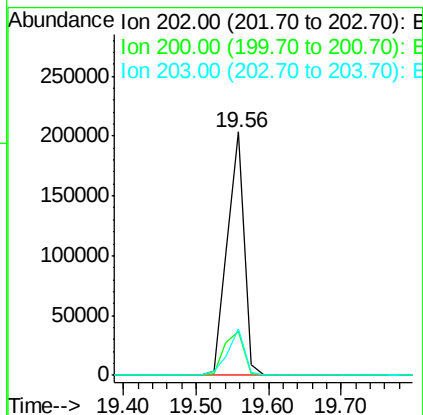
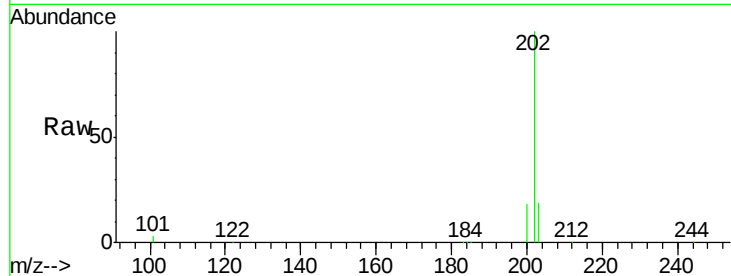




#28  
 Pyrene  
 Concen: 4.50 ng  
 RT: 19.56 min Scan# 1104  
 Delta R.T. -0.00 min  
 Lab File: BM003322.D  
 Acq: 30 Nov 2015 16:32

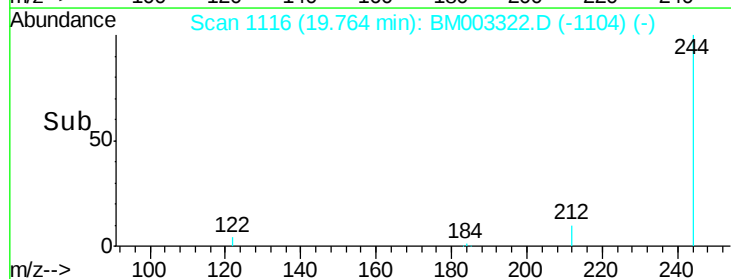
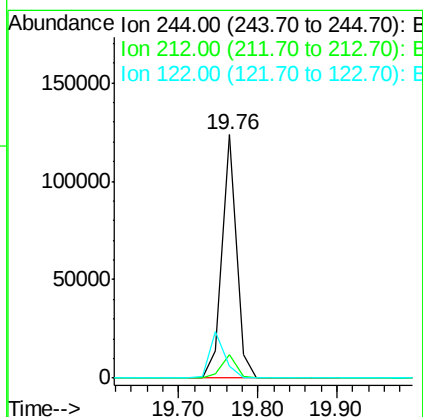
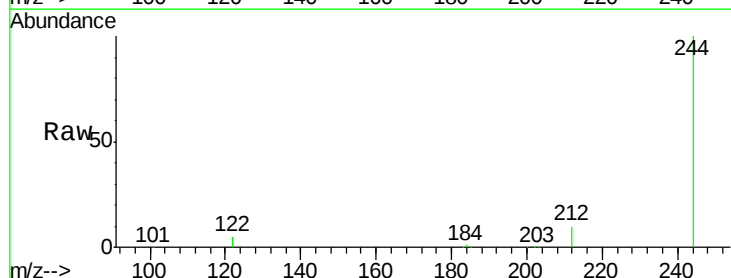
Instrument :  
 BNA\_M  
 ClientSampled :  
 PT-PAH-SOIL

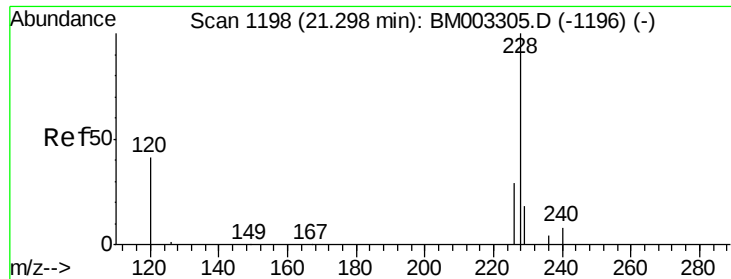
Tgt Ion: 202 Resp: 325905  
 Ion Ratio Lower Upper  
 202 100  
 200 20.9 16.7 25.1  
 203 19.1 13.8 20.6



#29  
 Terphenyl-d14  
 Concen: 4.65 ng  
 RT: 19.76 min Scan# 1116  
 Delta R.T. -0.00 min  
 Lab File: BM003322.D  
 Acq: 30 Nov 2015 16:32

Tgt Ion: 244 Resp: 153837  
 Ion Ratio Lower Upper  
 244 100  
 212 9.6 6.5 9.7  
 122 4.8 2.0 3.0#

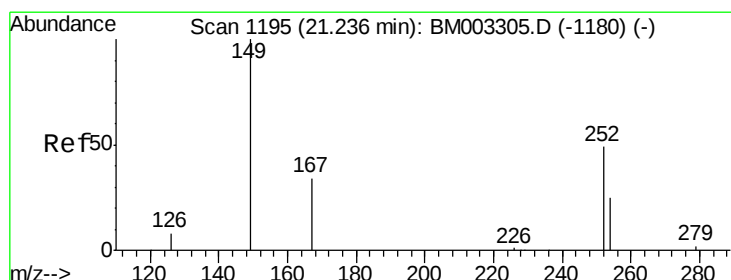
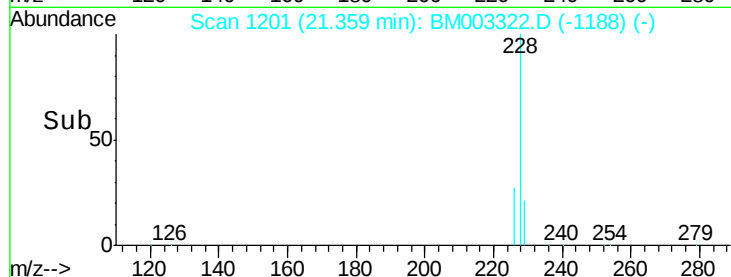
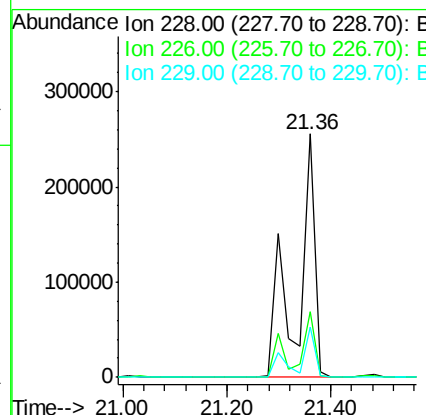
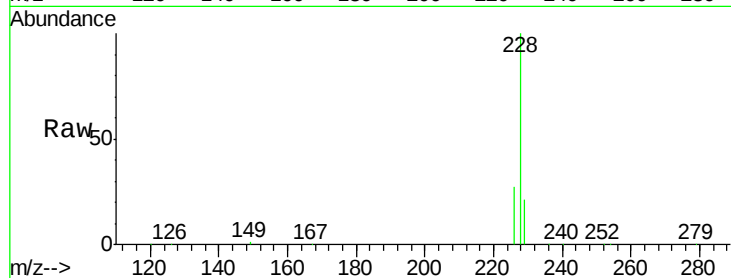




#30  
Benzo(a)anthracene  
Concen: 9.98 ng  
RT: 21.36 min Scan# 1201  
Delta R.T. 0.06 min  
Lab File: BM003322.D  
Acq: 30 Nov 2015 16:32

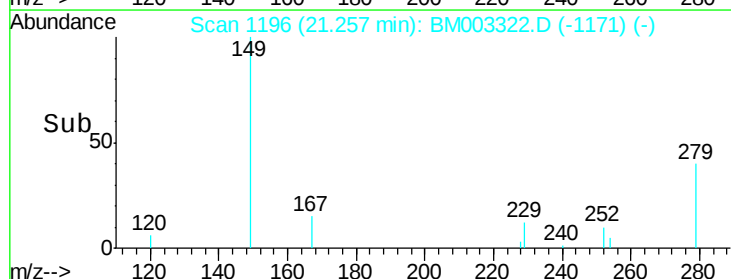
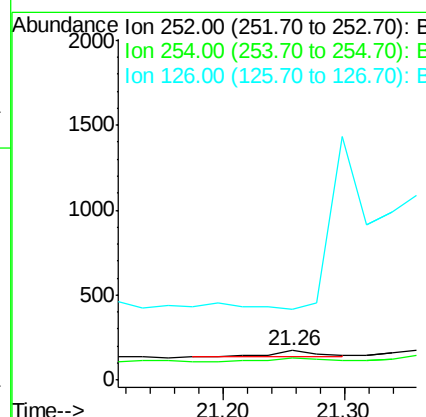
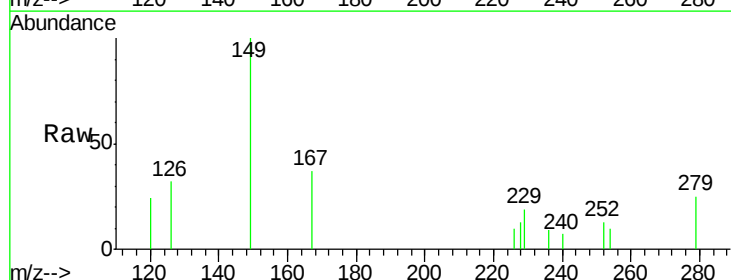
Instrument :  
BNA\_M  
ClientSampleId :  
PT-PAH-SOIL

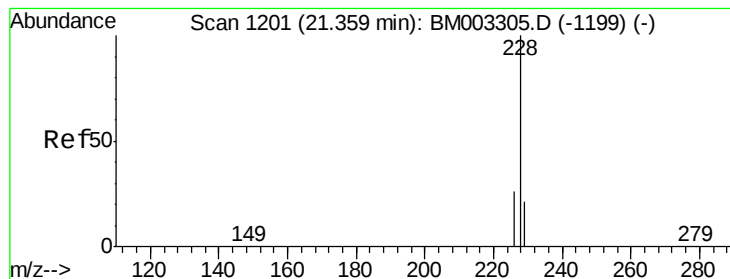
Tgt Ion:228 Resp: 599394  
Ion Ratio Lower Upper  
228 100  
226 27.0 17.8 26.6#  
229 20.9 18.0 27.0



#31  
3,3'-Dichlorobenzidine  
Concen: 0.17 ng  
RT: 21.26 min Scan# 1196  
Delta R.T. 0.02 min  
Lab File: BM003322.D  
Acq: 30 Nov 2015 16:32

Tgt Ion:252 Resp: 108  
Ion Ratio Lower Upper  
252 100  
254 75.6 53.7 80.5  
126 241.9 2.8 4.2#





#32

Chrysene

Concen: 8.92 ng

RT: 21.36 min Scan# 1201

Delta R.T. 0.00 min

Lab File: BM003322.D

Acq: 30 Nov 2015 16:32

Instrument :

BNA\_M

ClientSampleId :

PT-PAH-SOIL

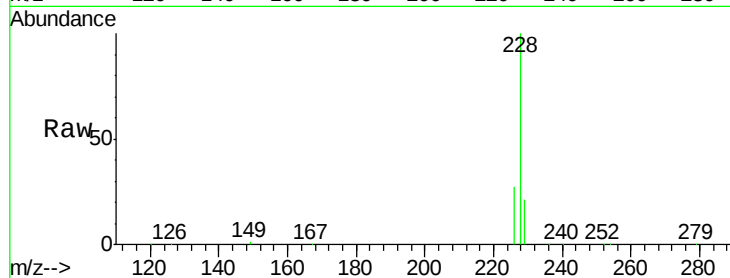
Tgt Ion:228 Resp: 599452

Ion Ratio Lower Upper

228 100

226 27.0 25.5 38.3

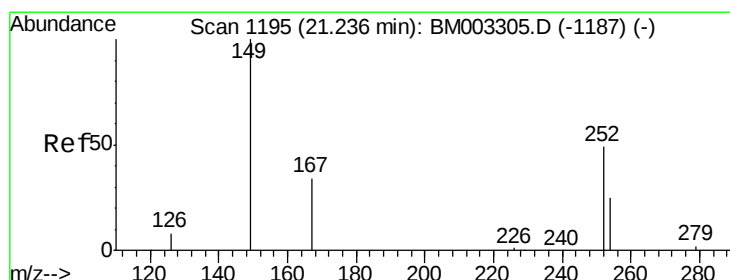
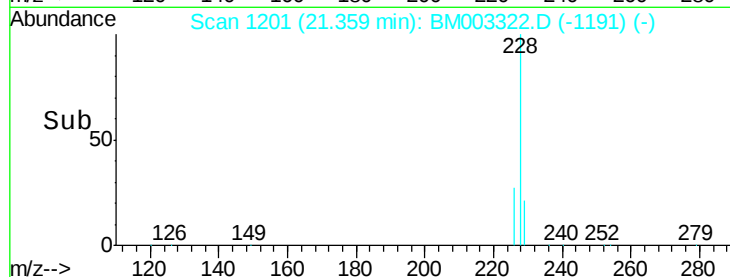
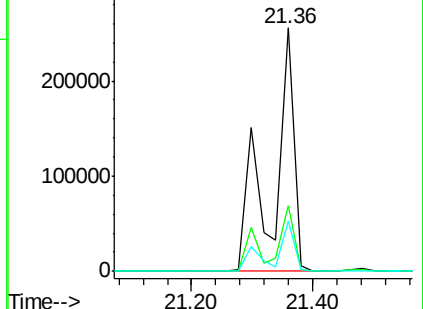
229 20.9 14.3 21.5



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



#33

Bis(2-ethylhexyl)phthalate

Concen: 1.42 ng

RT: 21.24 min Scan# 1195

Delta R.T. 0.00 min

Lab File: BM003322.D

Acq: 30 Nov 2015 16:32

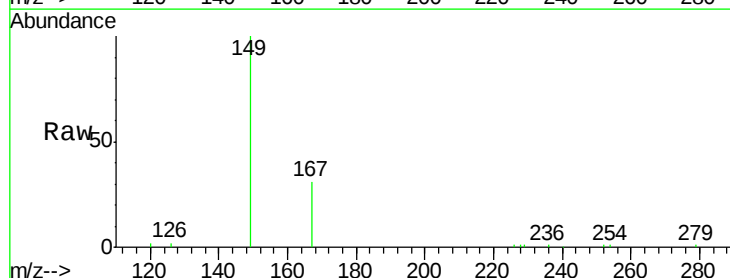
Tgt Ion:149 Resp: 27102

Ion Ratio Lower Upper

149 100

167 28.2 19.6 29.4

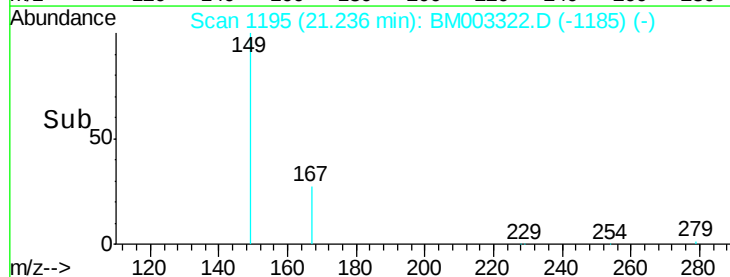
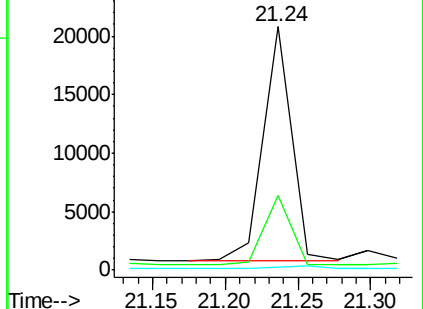
279 0.0 0.0 0.0

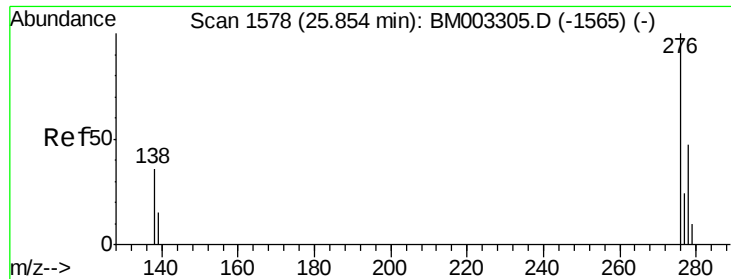


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

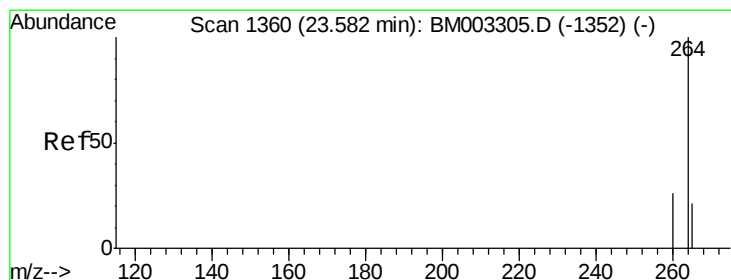
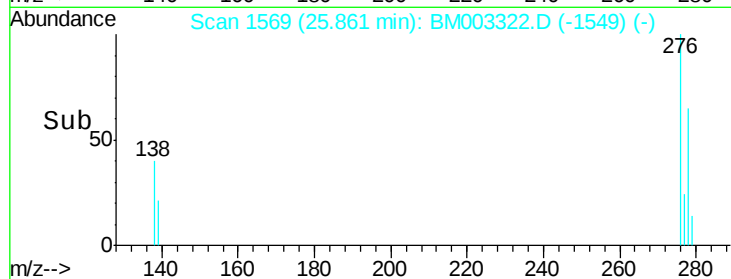
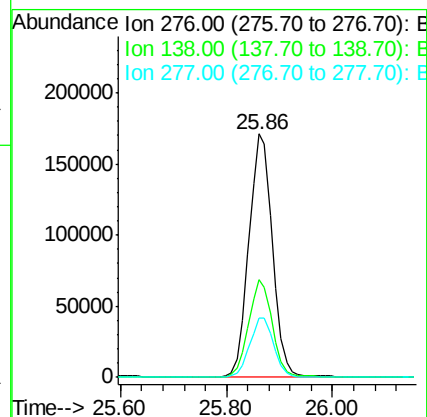
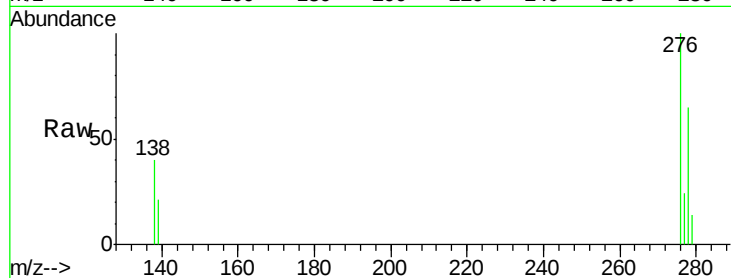




#34  
 Indeno(1,2,3-cd)pyrene  
 Concen: 9.55 ng  
 RT: 25.86 min Scan# 1569  
 Delta R.T. 0.01 min  
 Lab File: BM003322.D  
 Acq: 30 Nov 2015 16:32

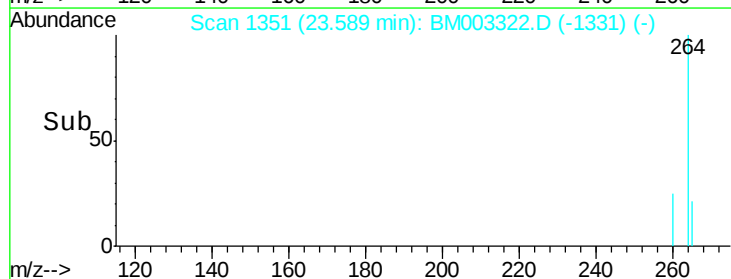
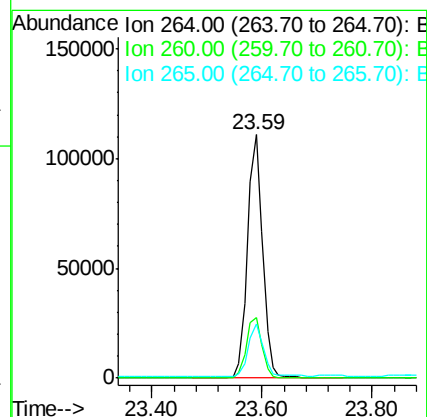
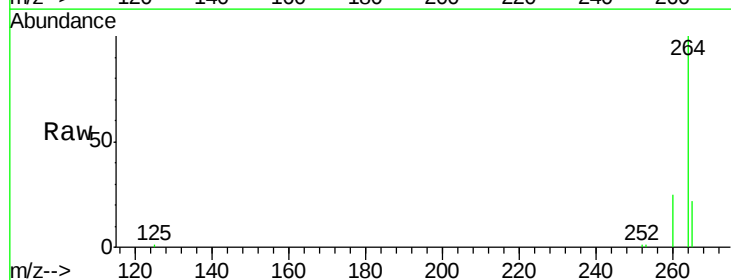
Instrument :  
 BNA\_M  
 ClientSampleId :  
 PT-PAH-SOIL

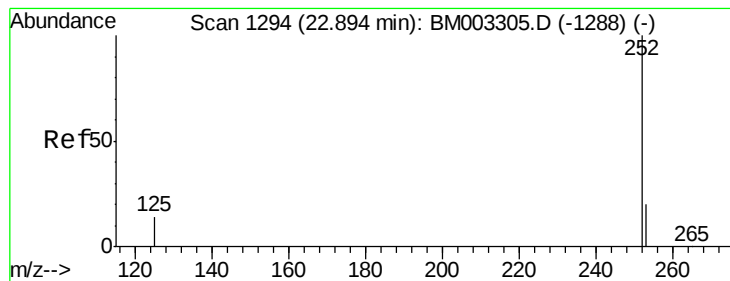
Tgt Ion: 276 Resp: 525821  
 Ion Ratio Lower Upper  
 276 100  
 138 39.2 19.1 28.7#  
 277 24.8 15.9 23.9#



#35  
 Perylene-d12  
 Concen: 5.00 ng  
 RT: 23.59 min Scan# 1351  
 Delta R.T. 0.01 min  
 Lab File: BM003322.D  
 Acq: 30 Nov 2015 16:32

Tgt Ion: 264 Resp: 211782  
 Ion Ratio Lower Upper  
 264 100  
 260 25.1 19.6 29.4  
 265 22.2 18.4 27.6





#36

Benzo(b)fluoranthene

Concen: 8.31 ng

RT: 22.90 min Scan# 1285

Delta R.T. 0.01 min

Lab File: BM003322.D

Acq: 30 Nov 2015 16:32

Instrument :

BNA\_M

ClientSampleId :

PT-PAH-SOIL

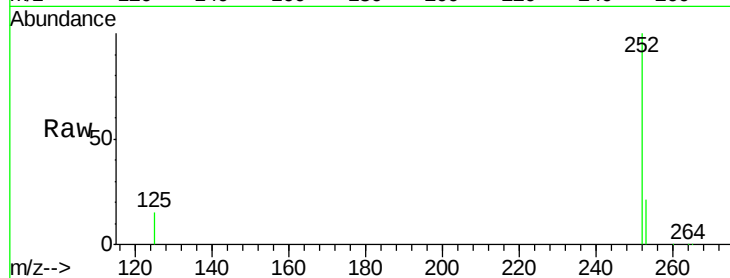
Tgt Ion:252 Resp: 506334

Ion Ratio Lower Upper

252 100

253 21.0 18.2 27.4

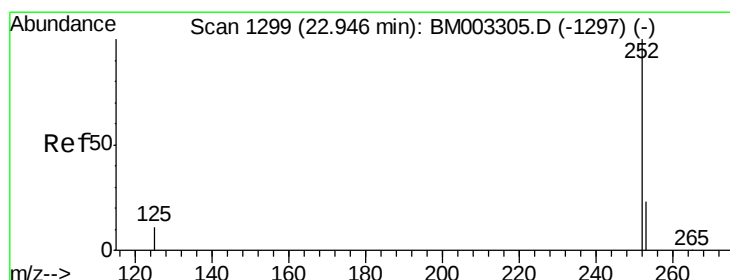
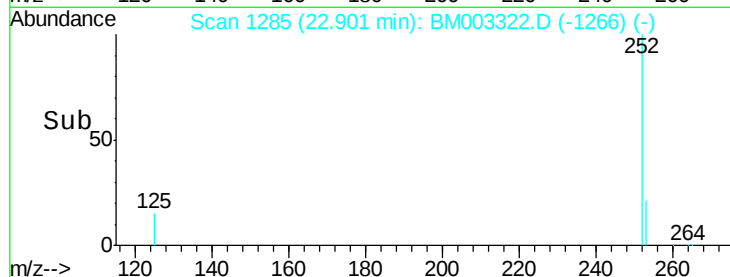
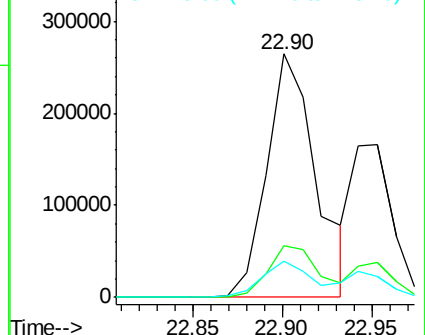
125 15.0 10.3 15.5



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: 4.69 ng

RT: 22.95 min Scan# 1290

Delta R.T. 0.01 min

Lab File: BM003322.D

Acq: 30 Nov 2015 16:32

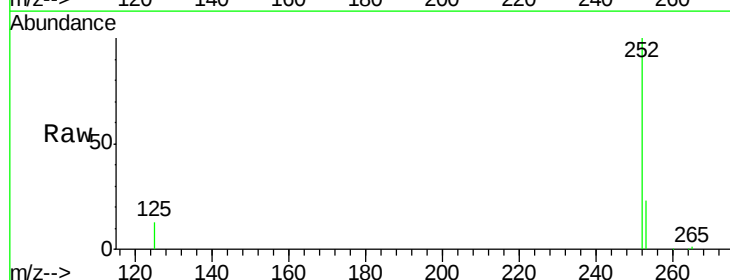
Tgt Ion:252 Resp: 257139

Ion Ratio Lower Upper

252 100

253 23.3 17.5 26.3

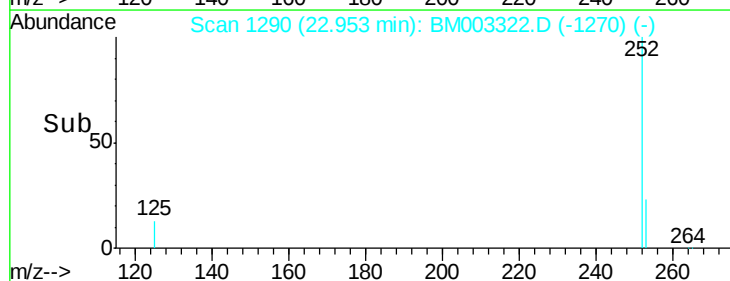
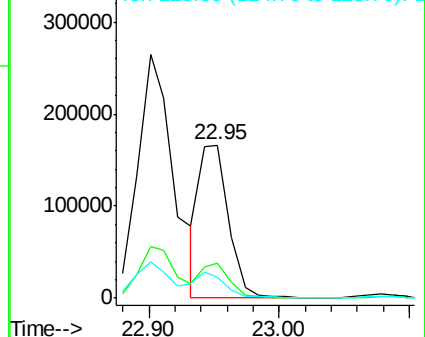
125 13.5 10.7 16.1

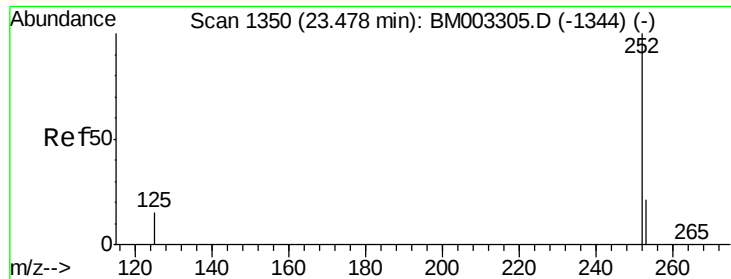


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#38

Benzo(a)pyrene

Concen: 6.83 ng

RT: 23.48 min Scan# 1341

Delta R.T. 0.01 min

Lab File: BM003322.D

Acq: 30 Nov 2015 16:32

Instrument :

BNA\_M

ClientSampleId :

PT-PAH-SOIL

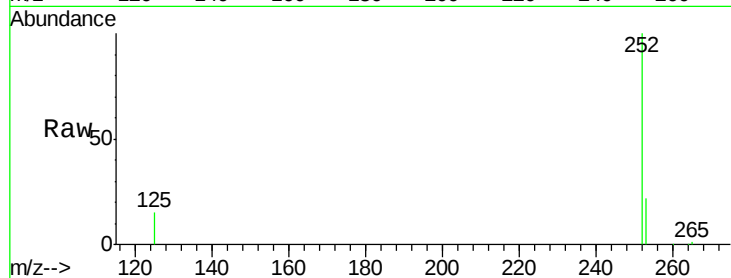
Tgt Ion:252 Resp: 331785

Ion Ratio Lower Upper

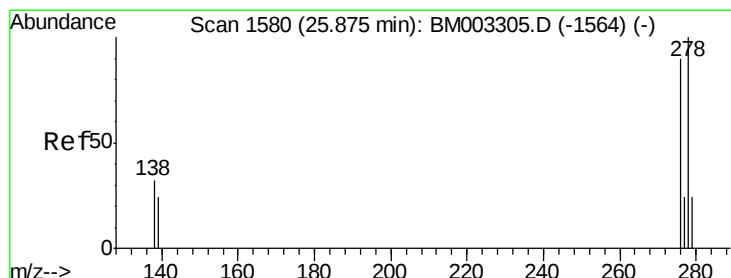
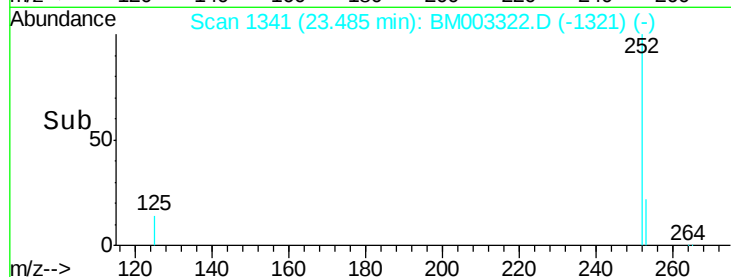
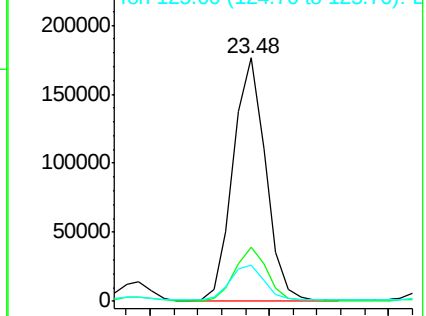
252 100

253 22.2 18.7 28.1

125 14.7 11.6 17.4



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



#39

Dibenzo(a,h)anthracene

Concen: 11.64 ng

RT: 25.88 min Scan# 1571

Delta R.T. 0.01 min

Lab File: BM003322.D

Acq: 30 Nov 2015 16:32

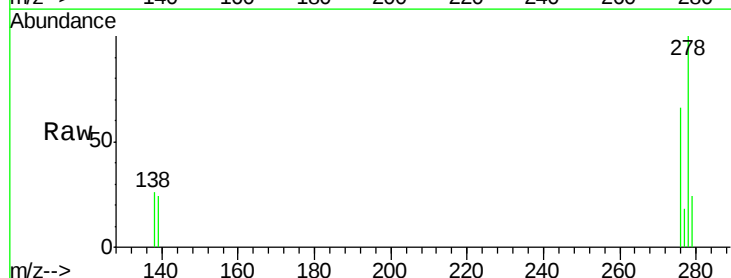
Tgt Ion:278 Resp: 488852

Ion Ratio Lower Upper

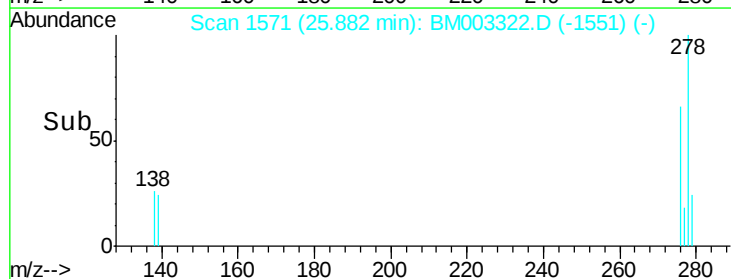
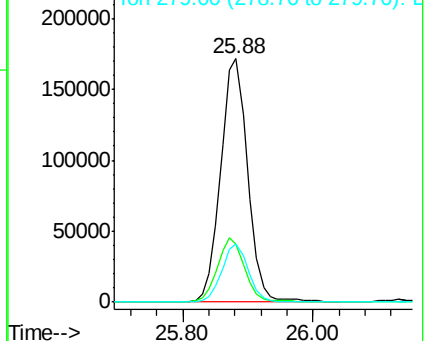
278 100

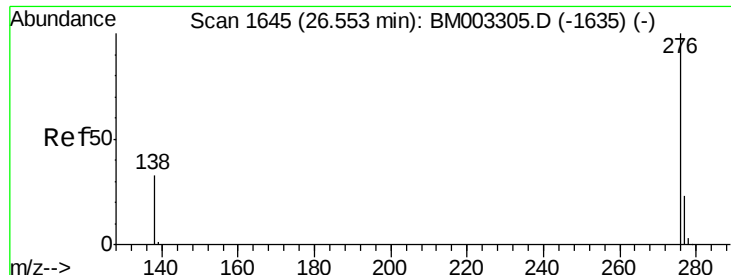
139 24.0 18.2 27.4

279 23.8 18.8 28.2



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: 3.93 ng

RT: 26.56 min Scan# 1636

Delta R.T. 0.01 min

Lab File: BM003322.D

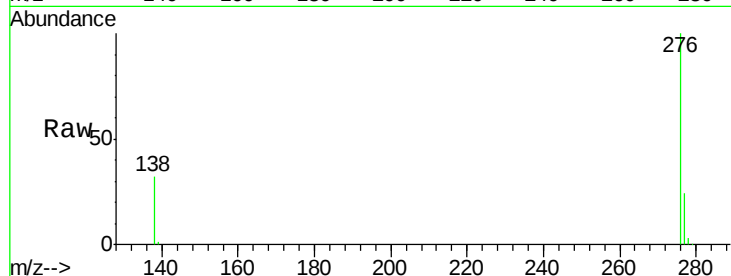
Acq: 30 Nov 2015 16:32

Instrument :

BNA\_M

ClientSampleId :

PT-PAH-SOIL



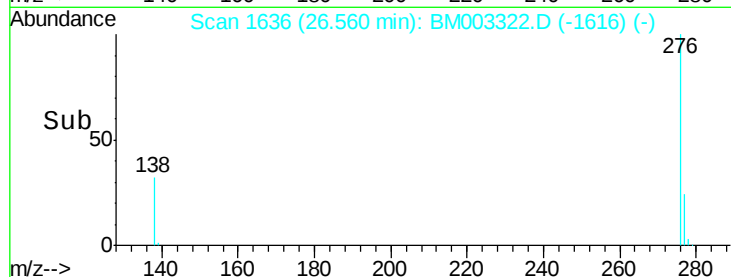
Tgt Ion: 276 Resp: 197909

Ion Ratio Lower Upper

276 100

277 23.6 19.0 28.6

138 32.0 22.3 33.5



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

