

Data Path : Z:\HPCHEM1\BNA F\DATA\BF050818\  
 Data File : BF105182.D  
 Acq On : 9 May 2018 8:41  
 Operator : JU/SJ  
 Sample : J2736-03  
 Misc :  
 ALS Vial : 34 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 MS-SOIL

Quant Time: May 09 12:18:30 2018  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050818.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 09 12:00:41 2018  
 Response via : Initial Calibration

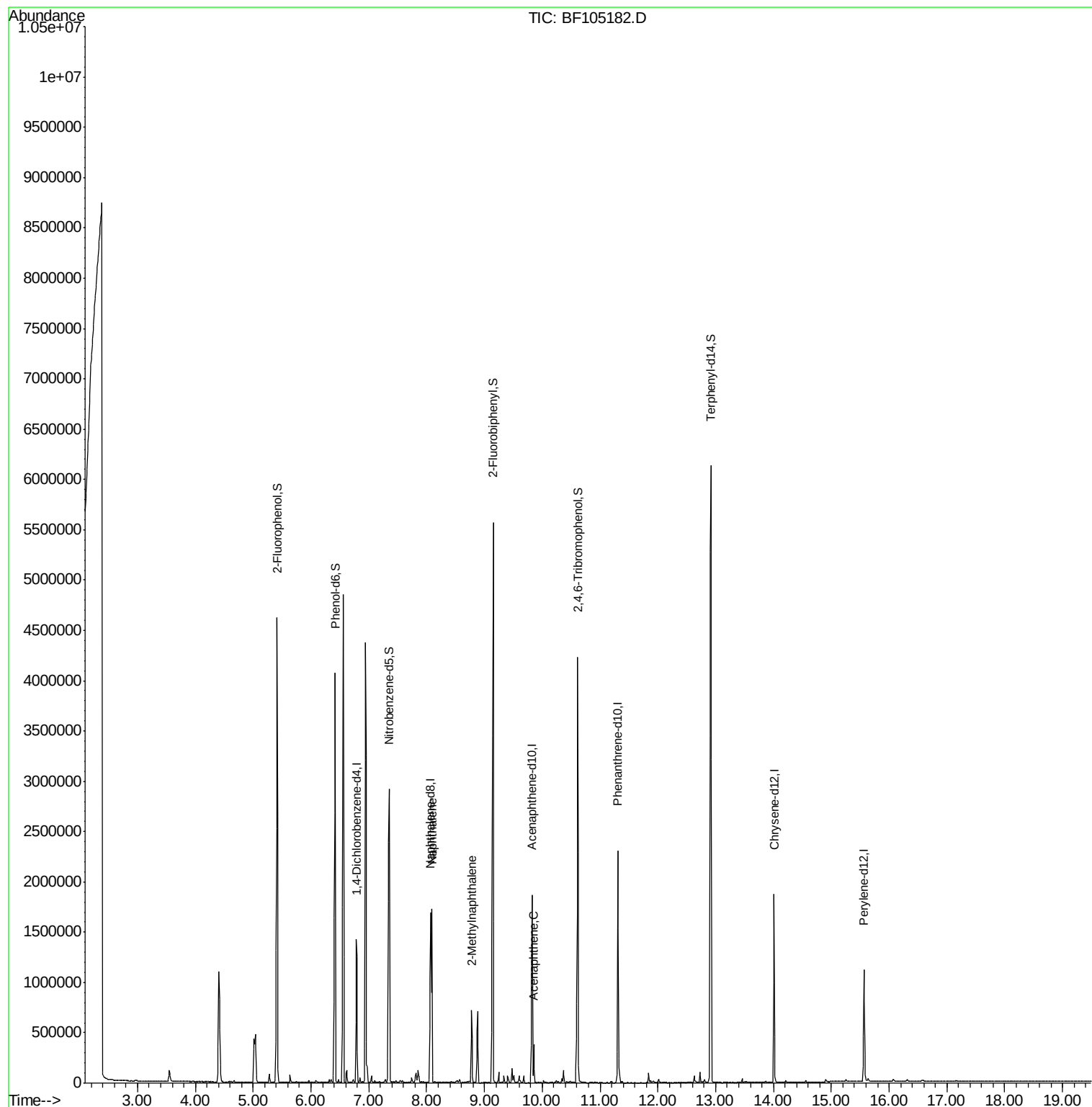
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.79  | 152  | 212684   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.07  | 136  | 847328   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10        | 9.82  | 164  | 418328   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10        | 11.31 | 188  | 822721   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12            | 14.01 | 240  | 700942   | 20.00  | ng    | 0.02     |
| 86) Perylene-d12            | 15.57 | 264  | 486461   | 20.00  | ng    | 0.06     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.42  | 112  | 1482949  | 114.87 | ng    | 0.02     |
| 7) Phenol-d6                | 6.42  | 99   | 1615981  | 105.12 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.35  | 82   | 1296375  | 103.69 | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol    | 10.62 | 330  | 661190   | 143.26 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.15  | 172  | 2392908  | 88.78  | ng    | 0.00     |
| 78) Terphenyl-d14           | 12.92 | 244  | 2616076  | 86.69  | ng    | 0.01     |
| Target Compounds            |       |      |          |        |       |          |
| 31) Naphthalene             | 8.09  | 128  | 813715   | 19.945 | ng    | 99       |
| 37) 2-Methylnaphthalene     | 8.78  | 142  | 210274   | 7.394  | ng    | 100      |
| 51) Acenaphthene            | 9.86  | 154  | 83303    | 3.285  | ng    | 99       |

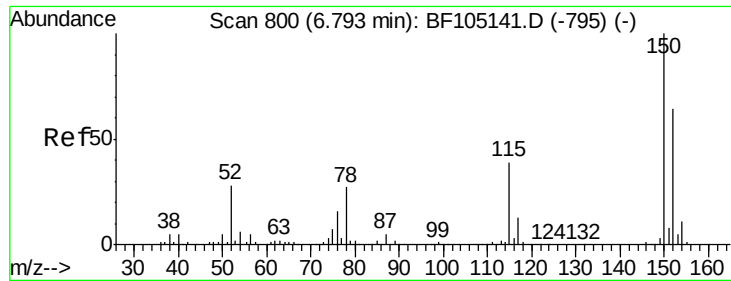
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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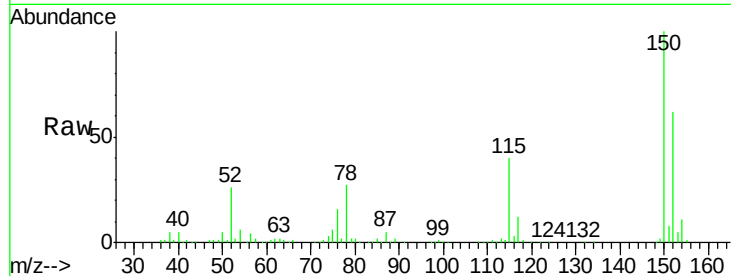


#1

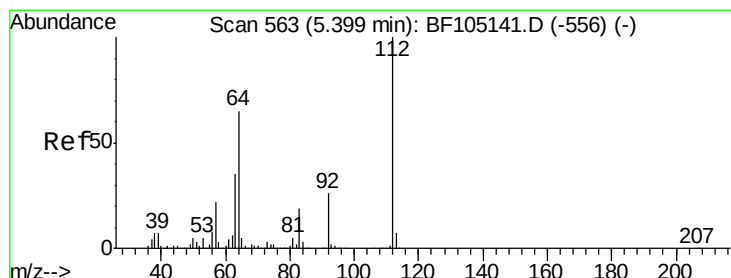
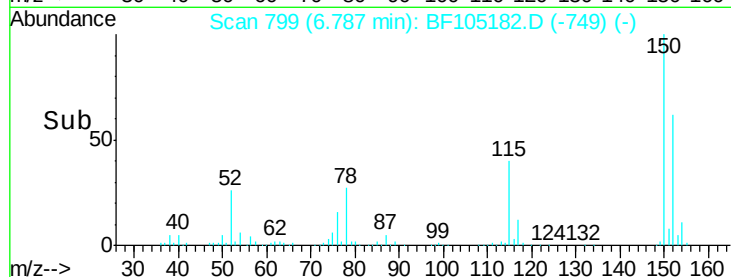
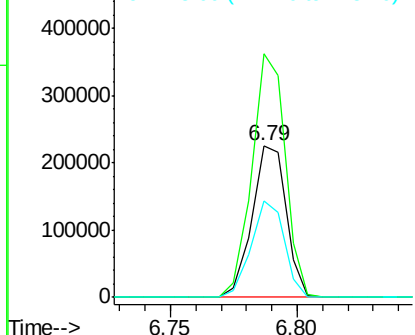
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.79 min Scan# 799  
Delta R.T. -0.01 min  
Lab File: BF105182.D  
Acq: 9 May 2018 8:41

Instrument :  
BNA\_F  
ClientSampleId :  
MS-SOIL

Tot Ion:152 Resp: 212684  
Ion Ratio Lower Upper  
152 100  
150 160.4 124.6 186.8  
115 63.8 50.1 75.1



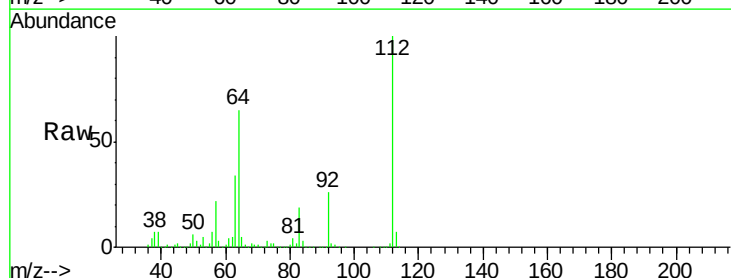
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



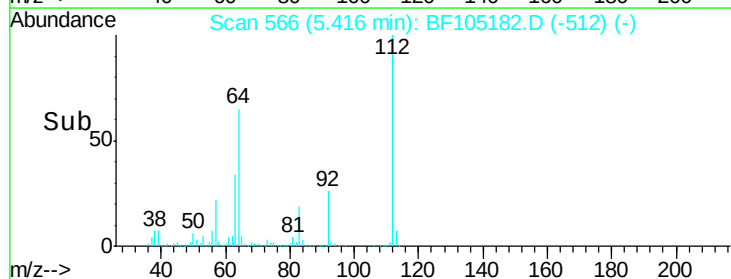
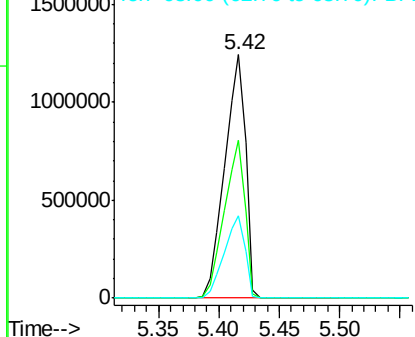
#5

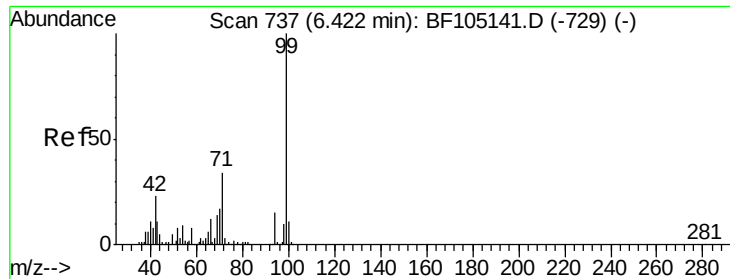
2-Fluorophenol  
Concen: 114.868 ng  
RT: 5.42 min Scan# 566  
Delta R.T. 0.02 min  
Lab File: BF105182.D  
Acq: 9 May 2018 8:41

Tgt Ion:112 Resp: 1482949  
Ion Ratio Lower Upper  
112 100  
64 64.7 47.9 71.9  
63 33.8 23.7 35.5



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BF1  
Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 105.125 ng

RT: 6.42 min Scan# 737

Delta R.T. 0.00 min

Lab File: BF105182.D

Acq: 9 May 2018 8:41

Instrument :

BNA\_F

ClientSampleId :

MS-SOIL

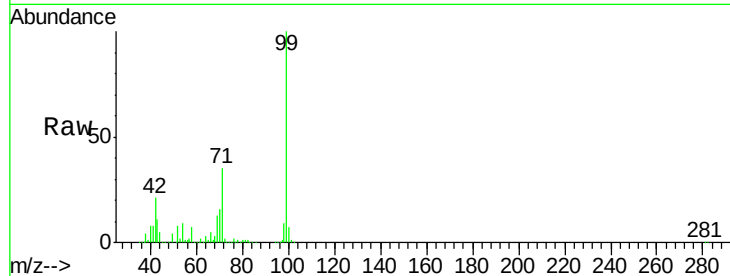
Tot Ion: 99 Resp: 1615981

Ion Ratio Lower Upper

99 100

42 20.9 14.5 21.7

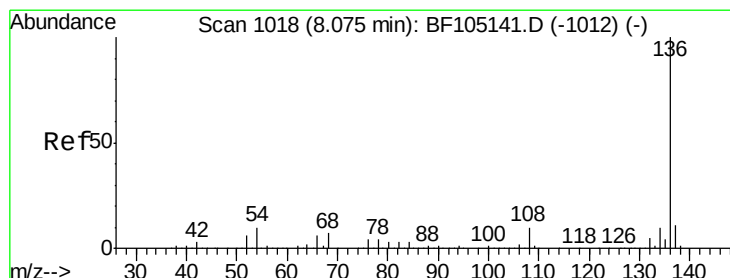
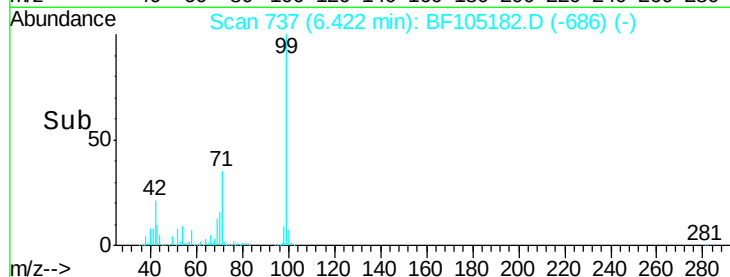
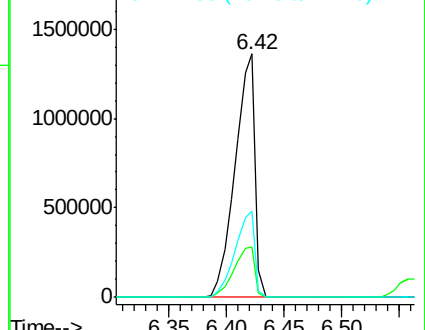
71 35.3 25.4 38.0



Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.07 min Scan# 1017

Delta R.T. -0.01 min

Lab File: BF105182.D

Acq: 9 May 2018 8:41

Tgt Ion: 136 Resp: 847328

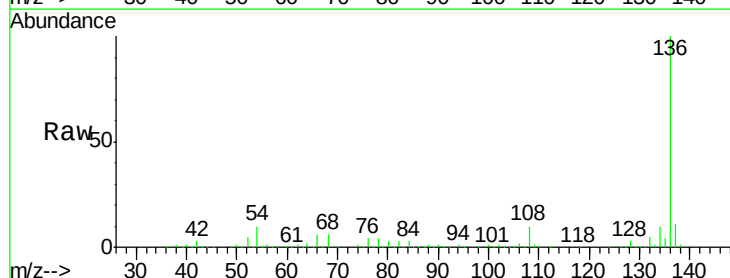
Ion Ratio Lower Upper

136 100

137 11.2 8.9 13.3

54 10.4 6.6 9.8#

68 6.5 5.0 7.4

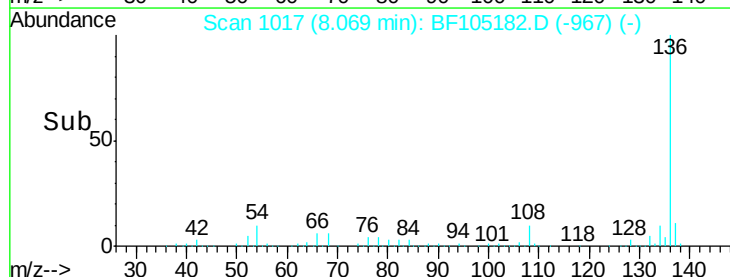
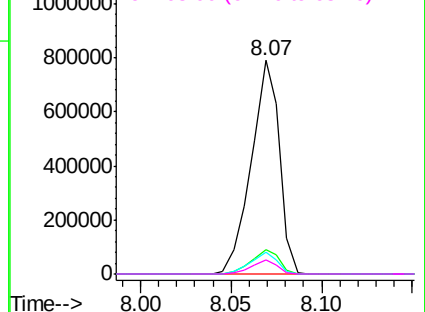


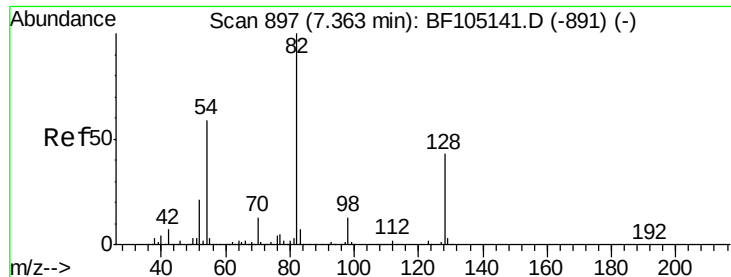
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1

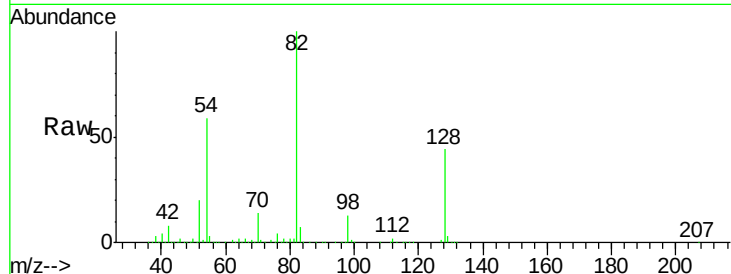




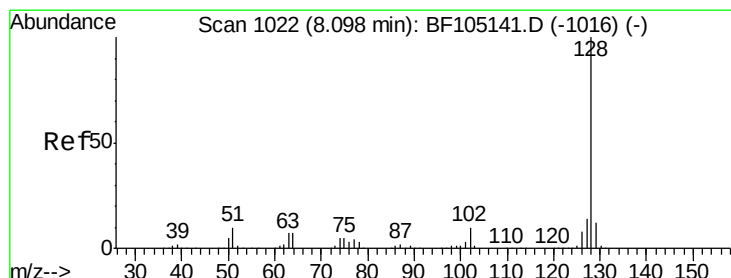
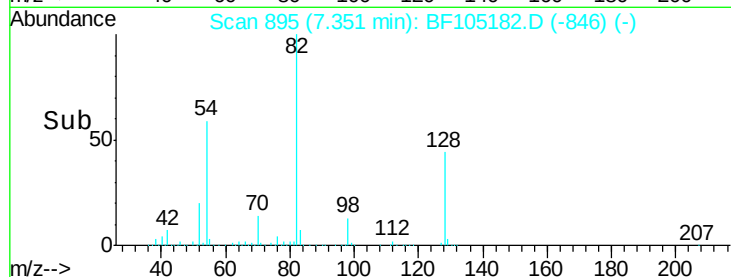
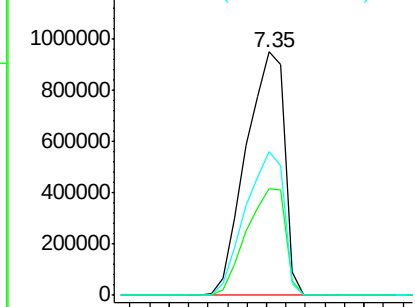
#23  
Nitrobenzene-d5  
Concen: 103.691 ng  
RT: 7.35 min Scan# 895  
Delta R.T. -0.01 min  
Lab File: BF105182.D  
Acq: 9 May 2018 8:41

Instrument :  
BNA\_F  
ClientSampleId :  
MS-SOIL

Tot Ion: 82 Resp: 1296375  
Ion Ratio Lower Upper  
82 100  
128 43.8 36.1 54.1  
54 58.9 41.4 62.2

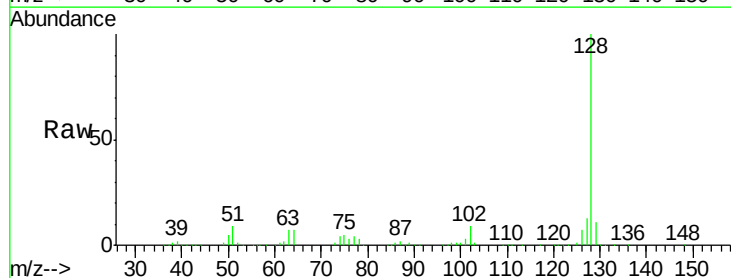


Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 128.00 (127.70 to 128.70): E  
Ion 54.00 (53.70 to 54.70): BF1

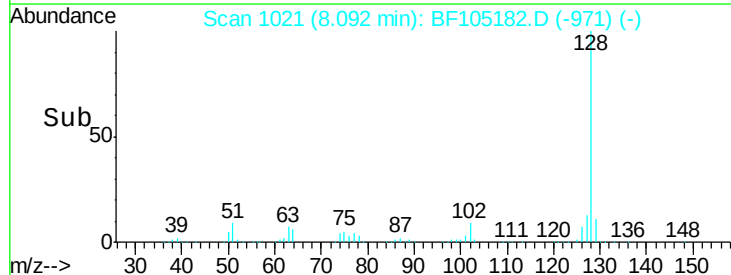
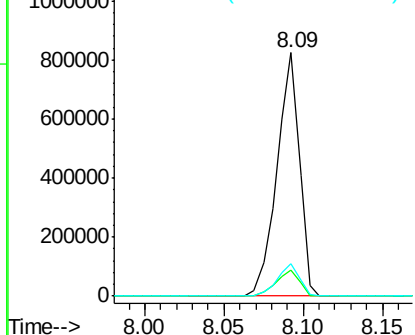


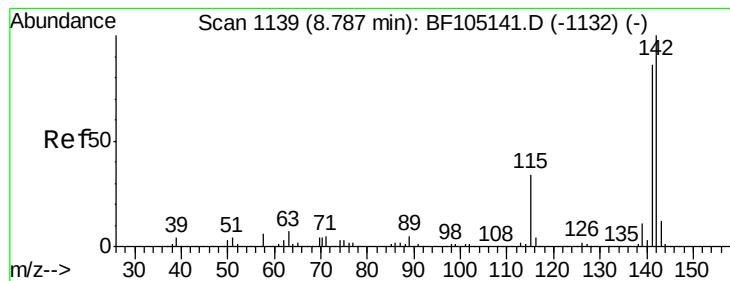
#31  
Naphthalene  
Concen: 19.945 ng  
RT: 8.09 min Scan# 1021  
Delta R.T. -0.01 min  
Lab File: BF105182.D  
Acq: 9 May 2018 8:41

Tgt Ion: 128 Resp: 813715  
Ion Ratio Lower Upper  
128 100  
129 10.8 8.8 13.2  
127 13.2 10.9 16.3



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

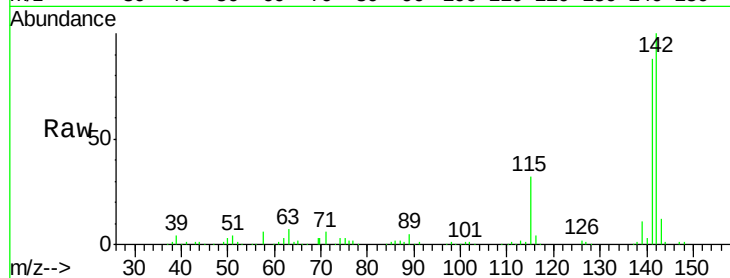




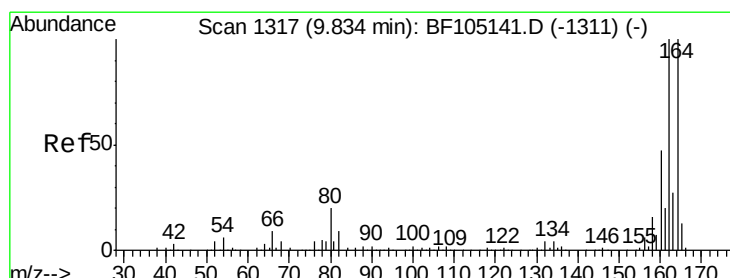
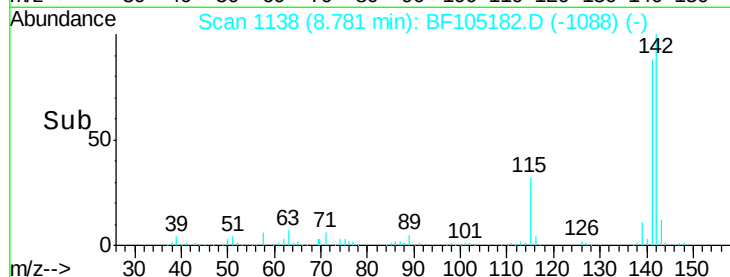
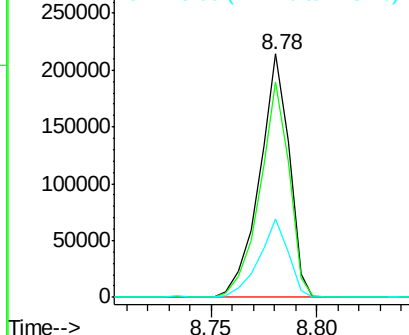
#37  
 2-Methylnaphthalene  
 Concen: 7.394 ng  
 RT: 8.78 min Scan# 1138  
 Delta R.T. -0.01 min  
 Lab File: BF105182.D  
 Acq: 9 May 2018 8:41

Instrument :  
 BNA\_F  
 ClientSampleId :  
 MS-SOIL

Tot Ion:142 Resp: 210274  
 Ion Ratio Lower Upper  
 142 100  
 141 88.3 70.8 106.2  
 115 32.1 26.1 39.1

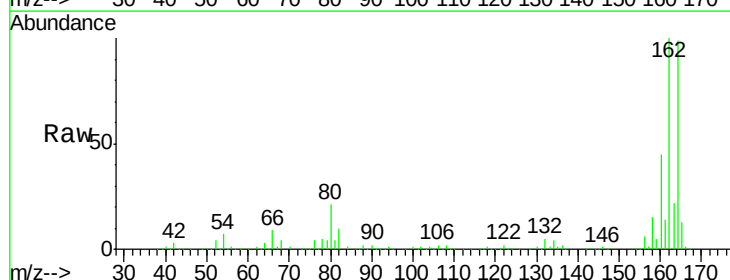


Abundance Ion 142.00 (141.70 to 142.70): E  
 Ion 141.00 (140.70 to 141.70): E  
 Ion 115.00 (114.70 to 115.70): E

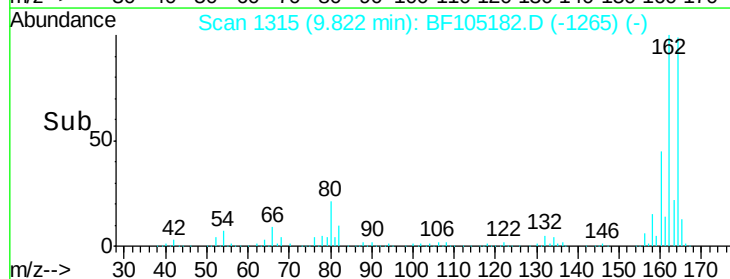
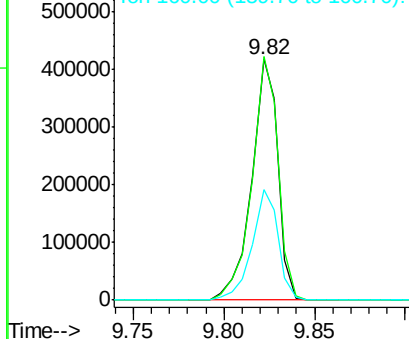


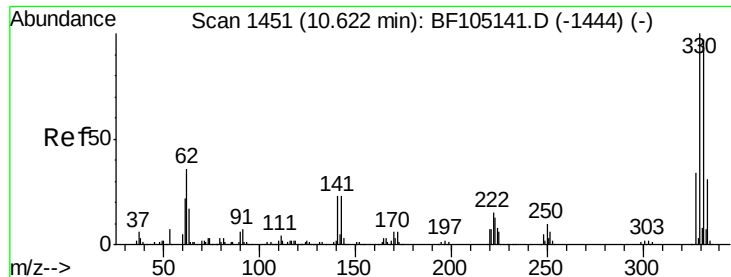
#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.82 min Scan# 1315  
 Delta R.T. -0.01 min  
 Lab File: BF105182.D  
 Acq: 9 May 2018 8:41

Tgt Ion:164 Resp: 418328  
 Ion Ratio Lower Upper  
 164 100  
 162 101.1 86.1 129.1  
 160 45.9 38.3 57.5



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

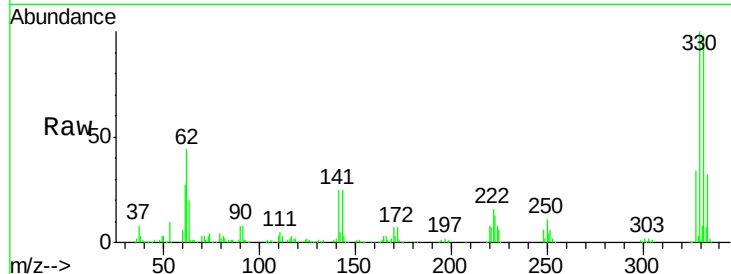




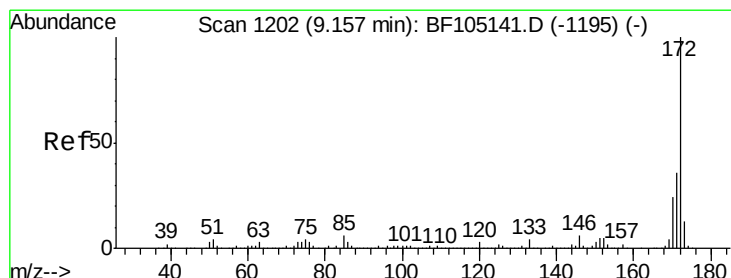
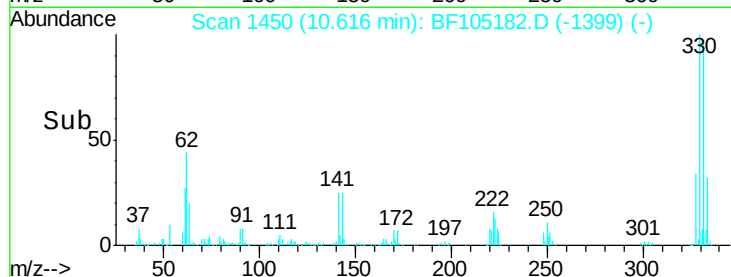
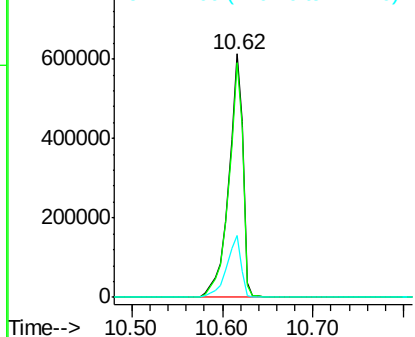
#41  
 2,4,6-Tribromophenol  
 Concen: 143.260 ng  
 RT: 10.62 min Scan# 1450  
 Delta R.T. 0.00 min  
 Lab File: BF105182.D  
 Acq: 9 May 2018 8:41

Instrument :  
 BNA\_F  
 ClientSampleId :  
 MS-SOIL

Tot Ion:330 Resp: 661190  
 Ion Ratio Lower Upper  
 330 100  
 332 96.7 77.0 115.6  
 141 26.1 29.9 44.9#

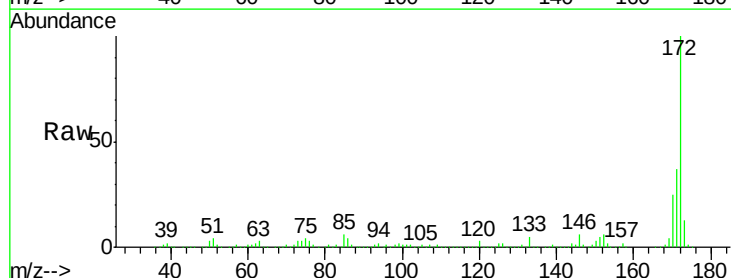


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

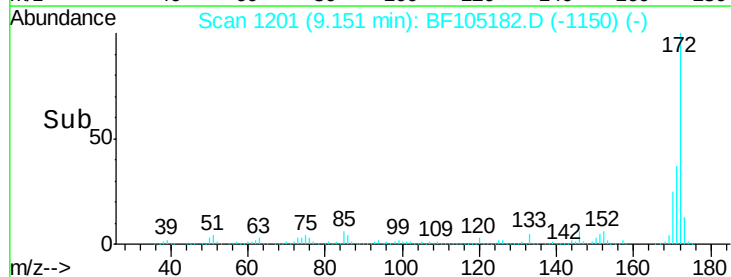
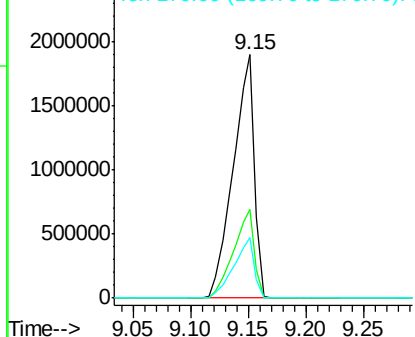


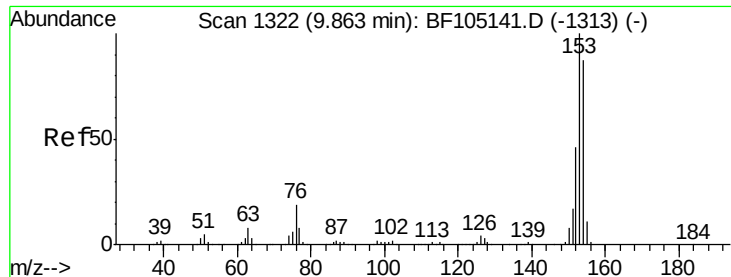
#44  
 2-Fluorobiphenyl  
 Concen: 88.783 ng  
 RT: 9.15 min Scan# 1201  
 Delta R.T. 0.00 min  
 Lab File: BF105182.D  
 Acq: 9 May 2018 8:41

Tgt Ion:172 Resp: 2392908  
 Ion Ratio Lower Upper  
 172 100  
 171 36.6 29.7 44.5  
 170 24.7 19.6 29.4



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





#51

Acenaphthene

Concen: 3.285 ng

RT: 9.86 min Scan# 1321

Delta R.T. -0.01 min

Lab File: BF105182.D

Acq: 9 May 2018 8:41

Instrument :

BNA\_F

ClientSampleId :

MS-SOIL

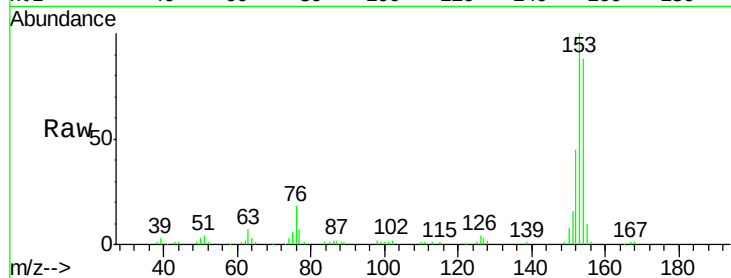
Tot Ion:154 Resp: 83303

Ion Ratio Lower Upper

154 100

153 114.1 91.2 136.8

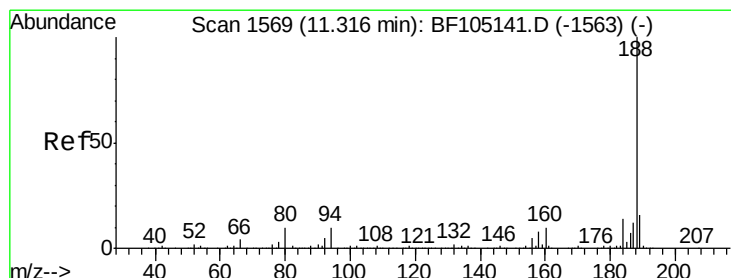
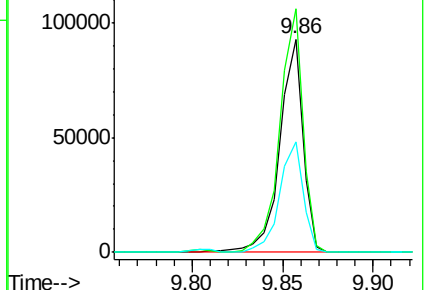
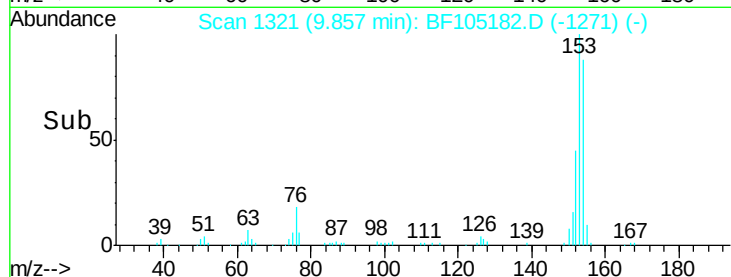
152 51.8 43.8 65.8



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



#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.31 min Scan# 1568

Delta R.T. -0.01 min

Lab File: BF105182.D

Acq: 9 May 2018 8:41

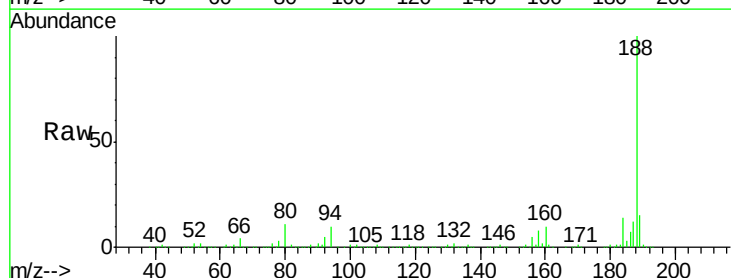
Tgt Ion:188 Resp: 822721

Ion Ratio Lower Upper

188 100

94 10.0 8.5 12.7

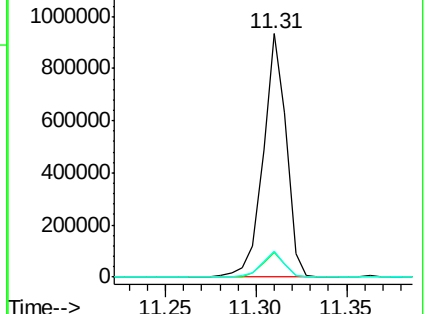
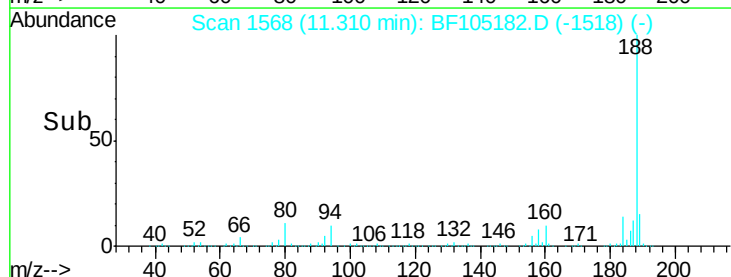
80 10.9 9.2 13.8



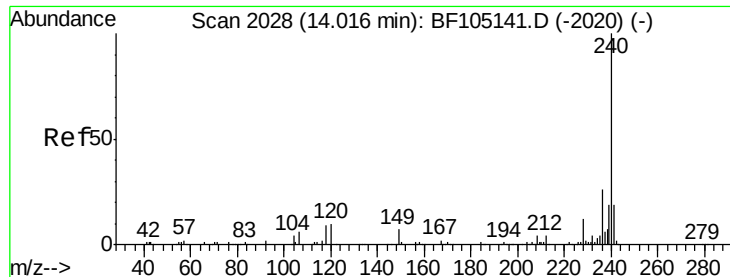
Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1







#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.01 min Scan# 2027

Delta R.T. 0.02 min

Lab File: BF105182.D

Acq: 9 May 2018 8:41

Instrument :

BNA\_F

ClientSampleId :

MS-SOIL

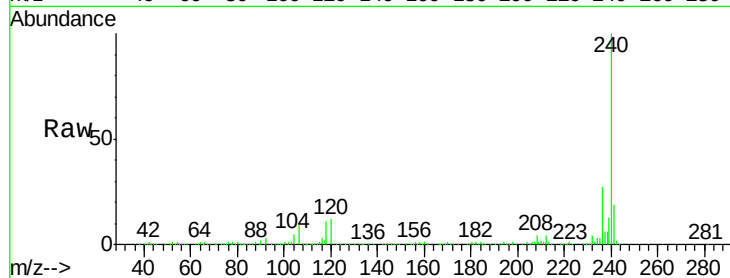
Tot Ion:240 Resp: 700942

Ion Ratio Lower Upper

240 100

120 12.0 9.5 14.3

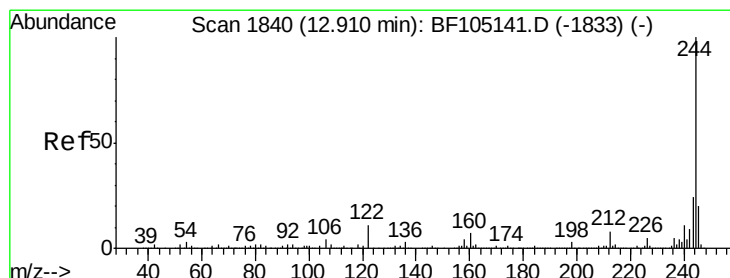
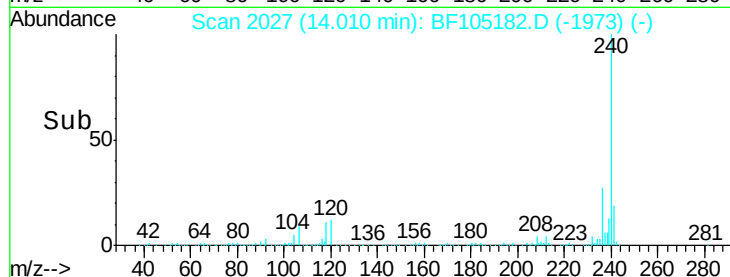
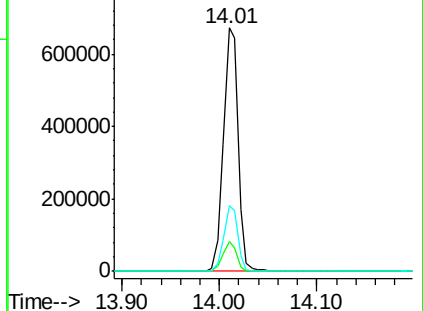
236 26.7 20.7 31.1



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



#78

Terphenyl-d14

Concen: 86.695 ng

RT: 12.92 min Scan# 1841

Delta R.T. 0.01 min

Lab File: BF105182.D

Acq: 9 May 2018 8:41

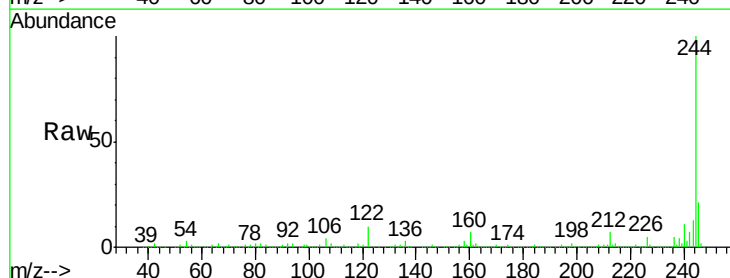
Tgt Ion:244 Resp: 2616076

Ion Ratio Lower Upper

244 100

212 7.3 5.4 8.0

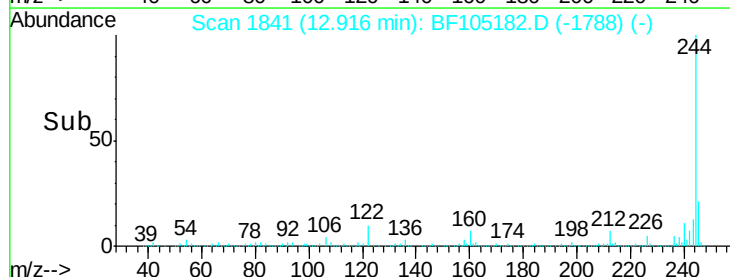
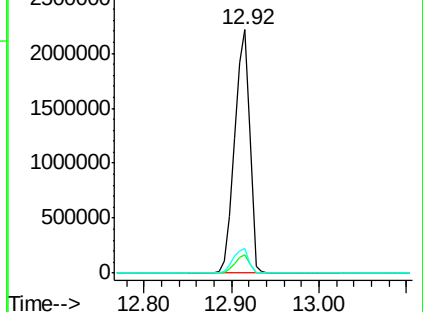
122 10.1 11.0 16.4#

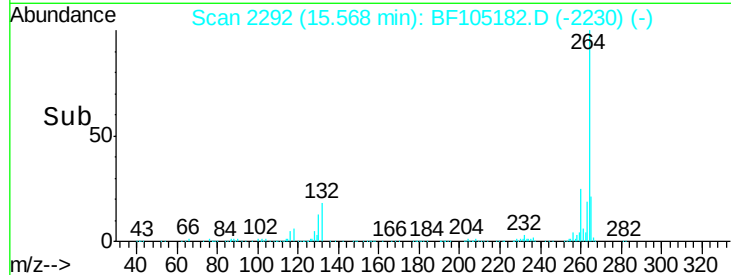
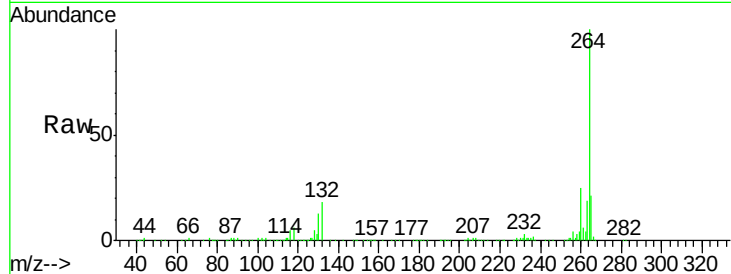
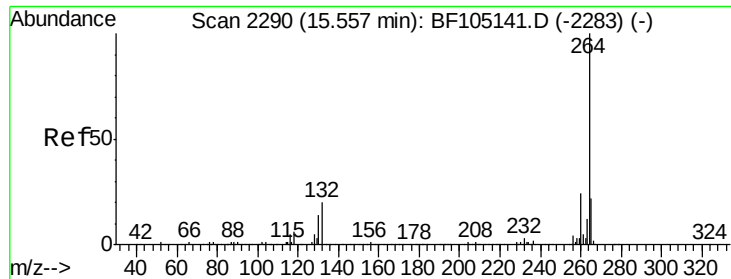


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.57 min Scan# 2292  
Delta R.T. 0.06 min  
Lab File: BF105182.D  
Acq: 9 May 2018 8:41

Instrument :  
BNA\_F  
ClientSampleId :  
MS-SOIL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 264   | Resp: | 486461 |
| Ion Ratio | Lower | Upper |        |
| 264       | 100   |       |        |
| 260       | 24.8  | 19.2  | 28.8   |
| 265       | 21.1  | 17.5  | 26.3   |

