

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF071318\  
 Data File : BF107385.D  
 Acq On : 14 Jul 2018 00:29  
 Operator : JU/SJ  
 Sample : J3545-01 10X  
 Misc :  
 ALS Vial : 30 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 DRUM-2

Quant Time: Jul 14 01:45:35 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF061918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jul 13 11:54:53 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.93  | 152  | 39049    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.21  | 136  | 139345   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 9.98  | 164  | 62517    | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.50 | 188  | 66551    | 20.00 | ng    | 0.02     |
| 75) Chrysene-d12          | 14.15 | 240  | 121497   | 20.00 | ng    | 0.01     |
| 86) Perylene-d12          | 15.68 | 264  | 98791    | 20.00 | ng    | 0.01     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.58  | 112  | 11967    | 5.19   | ng    | 0.02     |
| 7) Phenol-d6                | 6.60  | 99   | 15172    | 5.27   | ng    | 0.02     |
| 23) Nitrobenzene-d5         | 7.50  | 82   | 8756     | 3.49   | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 10.79 | 330  | 3863     | 5.33   | ng    | 0.01     |
| 44) 2-Fluorobiphenyl        | 9.28  | 172  | 22209    | -10.57 | ng    | 0.00     |
| 78) Terphenyl-d14           | 13.08 | 244  | 22547    | 4.50   | ng    | 0.02     |

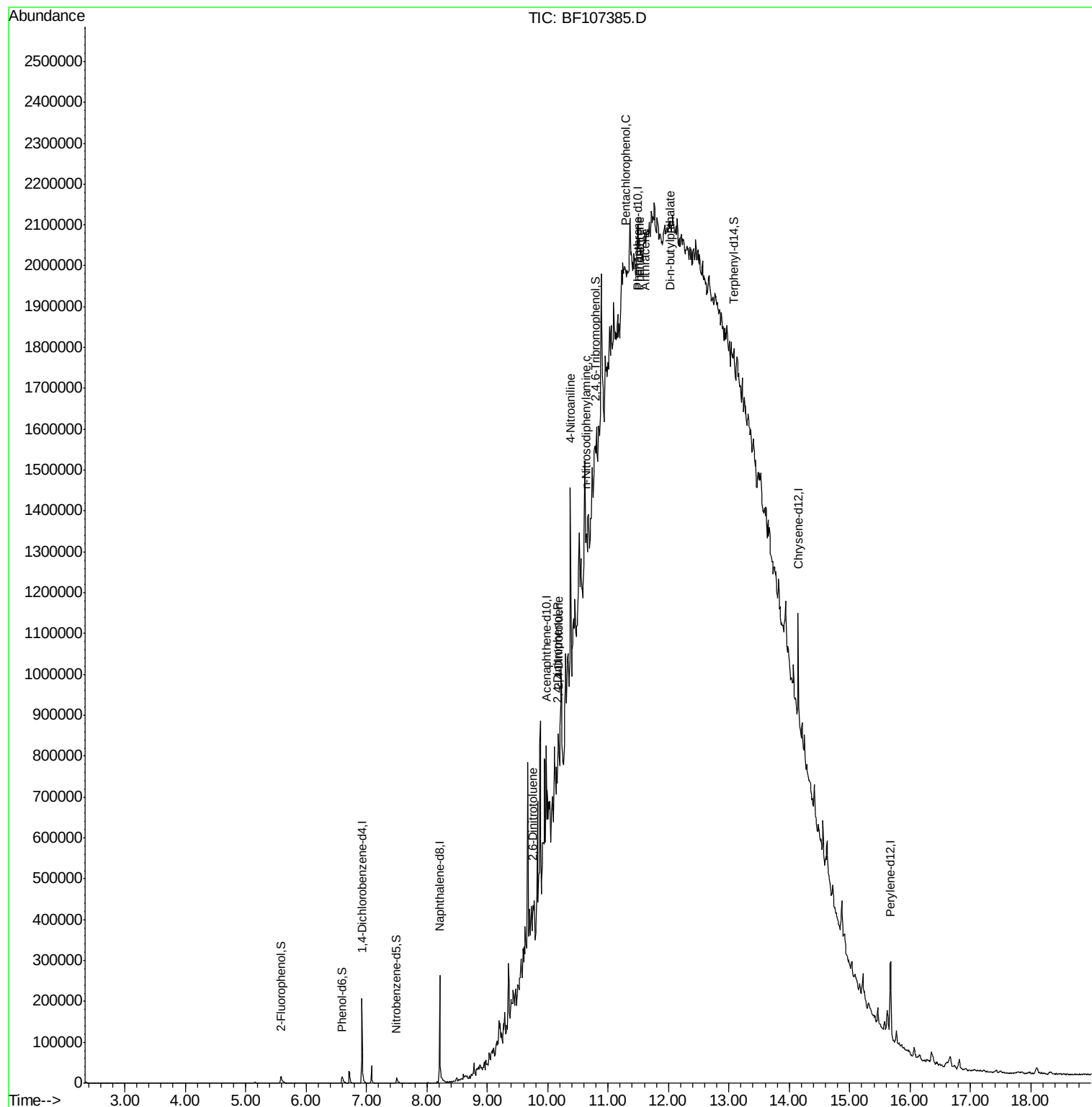
| Target Compounds           | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|----------------------------|-------|------|----------|--------|-------|--------|
| 50) 2,6-Dinitrotoluene     | 9.76  | 165  | 2227     | 2.243  | ng    | # 32   |
| 53) 2,4-Dinitrophenol      | 10.17 | 184  | 154      | 5.631  | ng    | # 41   |
| 56) 2,4-Dinitrotoluene     | 10.18 | 165  | 3857     | 2.976  | ng    | # 52   |
| 61) 4-Nitroaniline         | 10.38 | 138  | 6292     | 5.549  | ng    | # 81   |
| 65) n-Nitrosodiphenylamine | 10.64 | 169  | 13701    | 6.121  | ng    | # 46   |
| 69) Pentachlorophenol      | 11.31 | 266  | 1595     | 3.845  | ng    | # 32   |
| 70) Phenanthrene           | 11.52 | 178  | 33323    | 10.381 | ng    | # 69   |
| 71) Anthracene             | 11.61 | 178  | 14784    | 4.512  | ng    | # 1    |
| 73) Di-n-butylphthalate    | 12.04 | 149  | 14561    | 4.029  | ng    | # 33   |

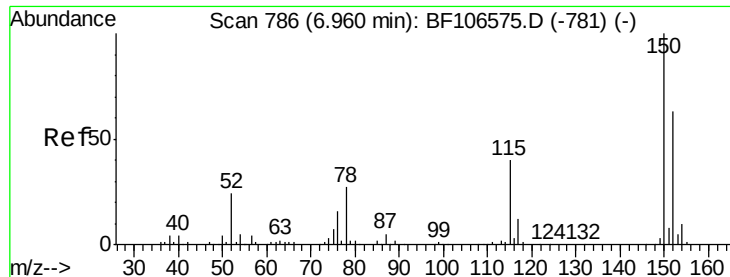
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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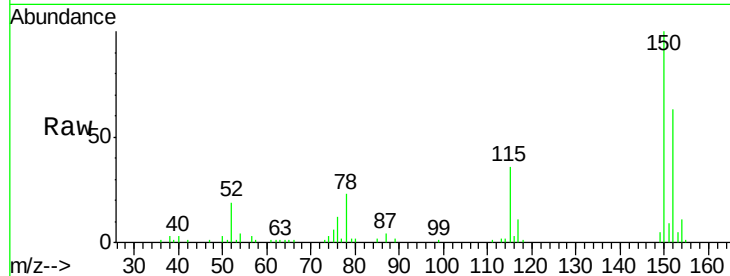


#1

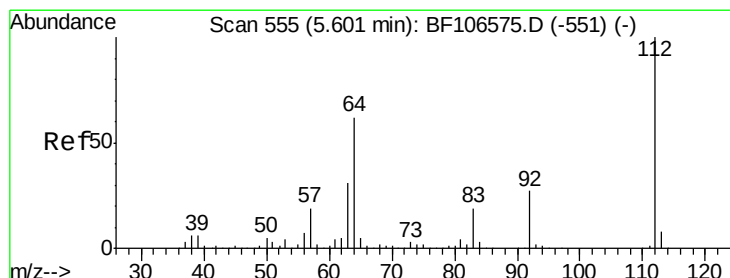
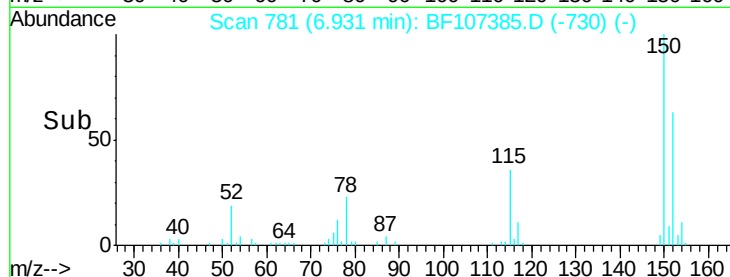
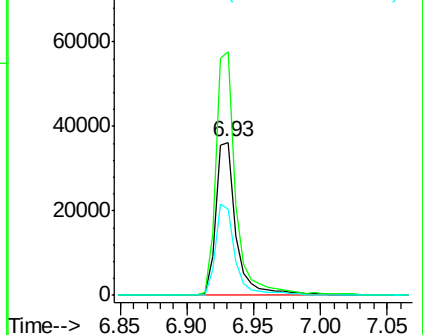
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.93 min Scan# 781  
Delta R.T. 0.00 min  
Lab File: BF107385.D  
Acq: 14 Jul 2018 00:29

Instrument :  
BNA\_F  
ClientSampleId :  
DRUM-2

Tgt Ion:152 Resp: 39049  
Ion Ratio Lower Upper  
152 100  
150 158.7 124.6 186.8  
115 56.6 50.1 75.1



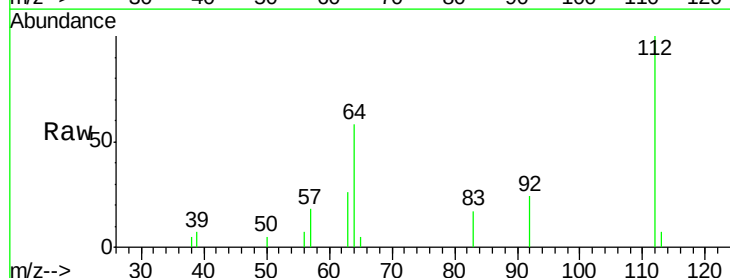
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



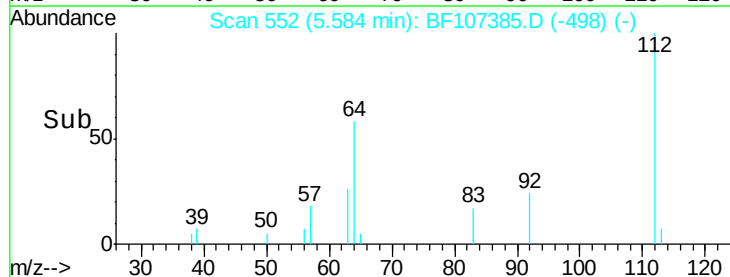
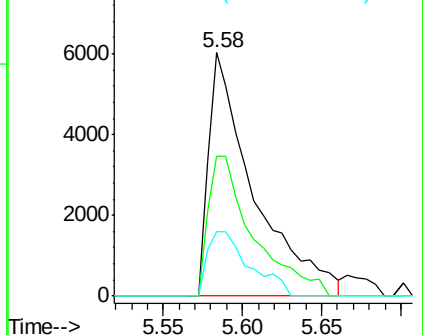
#5

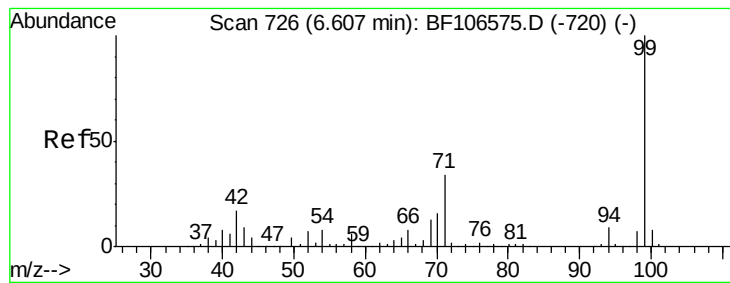
2-Fluorophenol  
Concen: 5.189 ng  
RT: 5.58 min Scan# 552  
Delta R.T. 0.02 min  
Lab File: BF107385.D  
Acq: 14 Jul 2018 00:29

Tgt Ion:112 Resp: 11967  
Ion Ratio Lower Upper  
112 100  
64 57.6 47.9 71.9  
63 26.4 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: 5.268 ng

RT: 6.60 min Scan# 724

Delta R.T. 0.02 min

Lab File: BF107385.D

Acq: 14 Jul 2018 00:29

Instrument :

BNA\_F

ClientSampleId :

DRUM-2

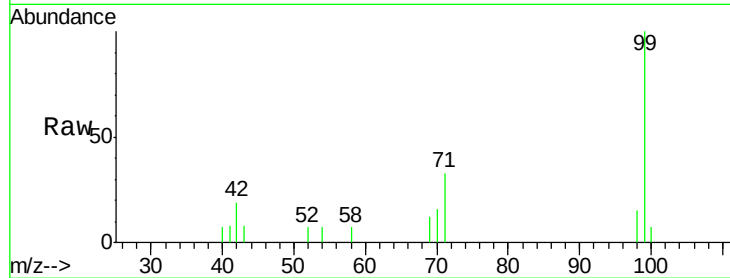
Tgt Ion: 99 Resp: 15172

Ion Ratio Lower Upper

99 100

42 19.2 14.5 21.7

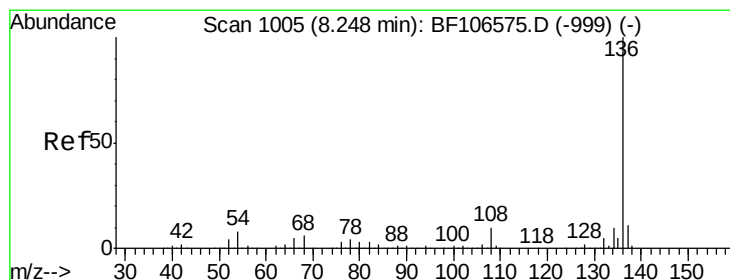
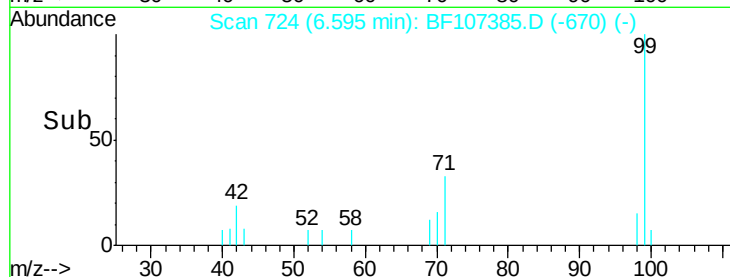
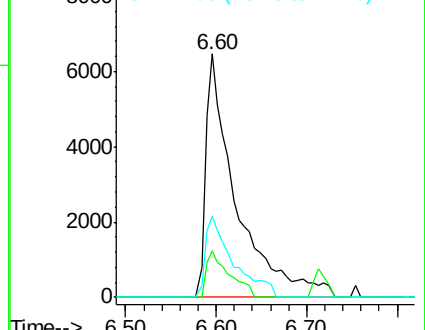
71 33.3 25.4 38.0



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: 8.21 min Scan# 999

Delta R.T. 0.00 min

Lab File: BF107385.D

Acq: 14 Jul 2018 00:29

Tgt Ion: 136 Resp: 139345

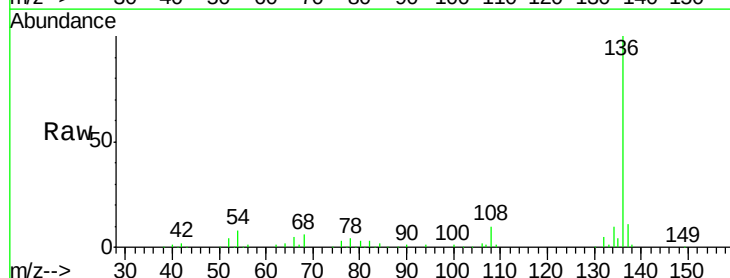
Ion Ratio Lower Upper

136 100

137 10.9 8.9 13.3

54 7.9 6.6 9.8

68 6.5 5.0 7.4

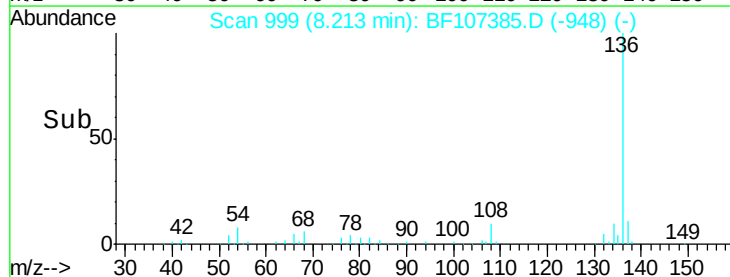
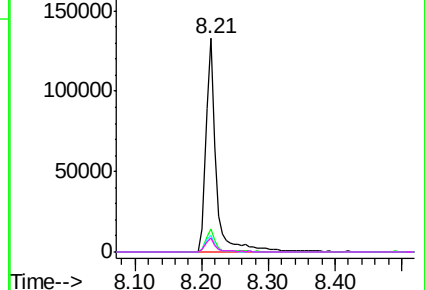


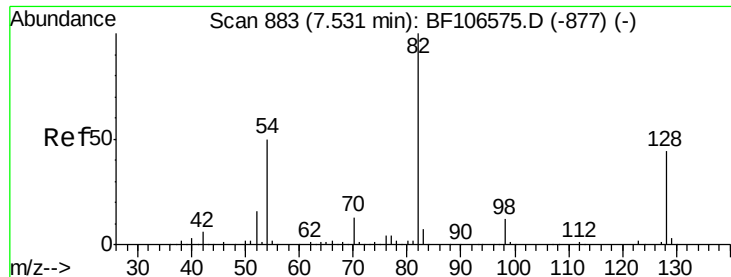
Abundance Ion 136.00 (135.70 to 136.70): E

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

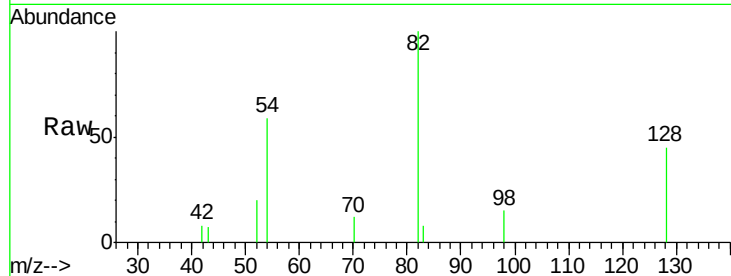




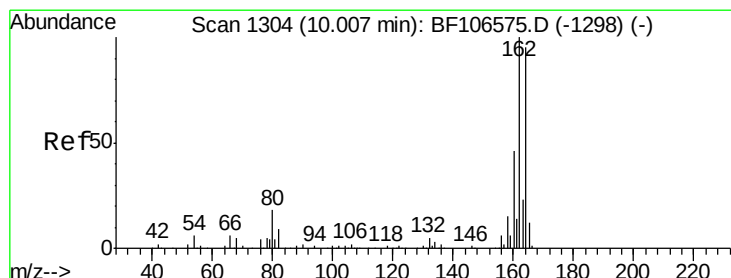
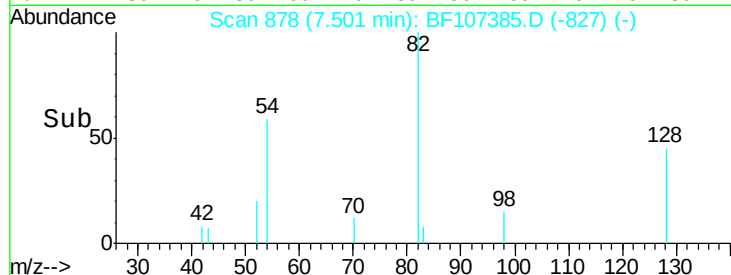
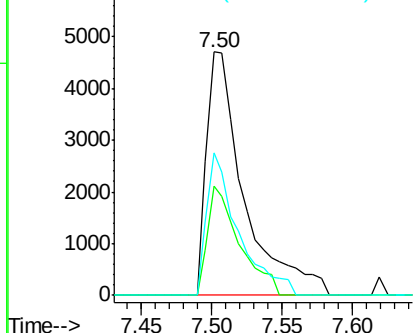
#23  
Nitrobenzene-d5  
Concen: 3.492 ng  
RT: 7.50 min Scan# 878  
Delta R.T. 0.00 min  
Lab File: BF107385.D  
Acq: 14 Jul 2018 00:29

Instrument :  
BNA\_F  
ClientSampleId :  
DRUM-2

Tgt Ion: 82 Resp: 8756  
Ion Ratio Lower Upper  
82 100  
128 44.6 36.1 54.1  
54 58.6 41.4 62.2

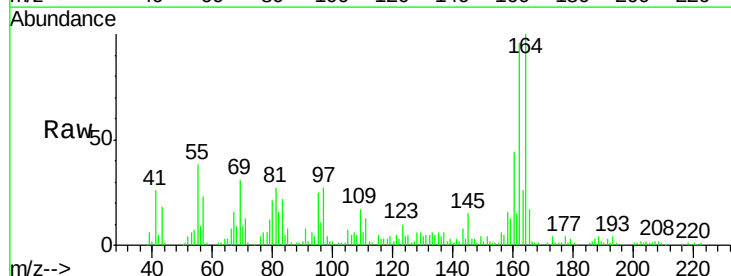


Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 128.00 (127.70 to 128.70): BF1  
Ion 54.00 (53.70 to 54.70): BF1

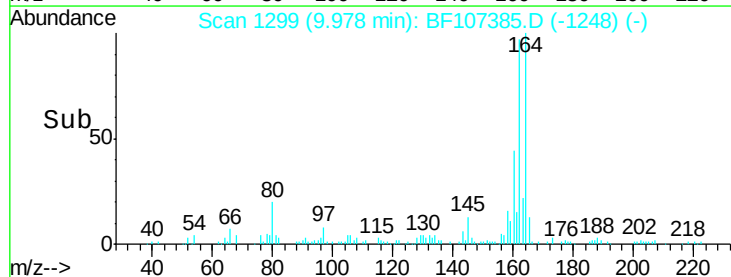
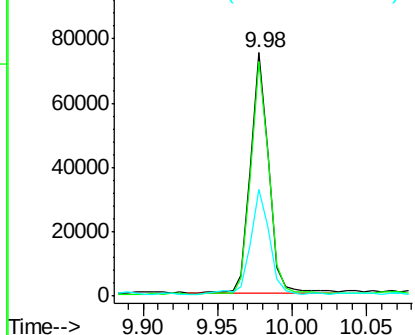


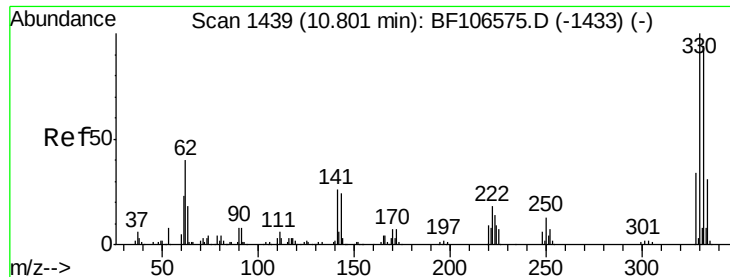
#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.98 min Scan# 1299  
Delta R.T. 0.00 min  
Lab File: BF107385.D  
Acq: 14 Jul 2018 00:29

Tgt Ion: 164 Resp: 62517  
Ion Ratio Lower Upper  
164 100  
162 96.3 86.1 129.1  
160 43.6 38.3 57.5



Abundance Ion 164.00 (163.70 to 164.70): BF1  
Ion 162.00 (161.70 to 162.70): BF1  
Ion 160.00 (159.70 to 160.70): BF1

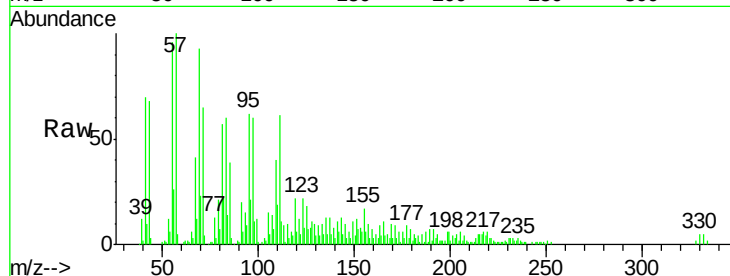




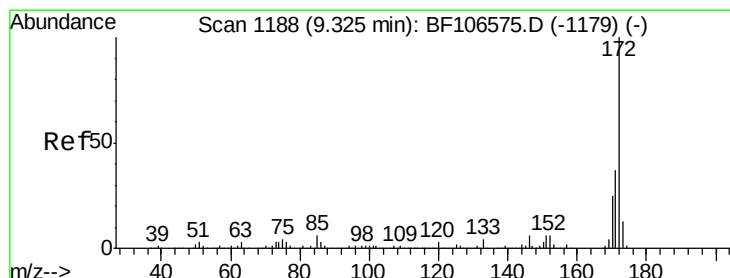
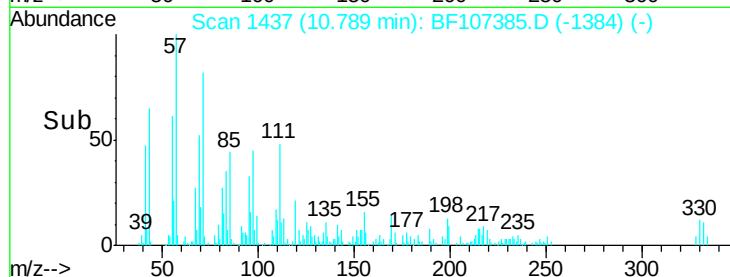
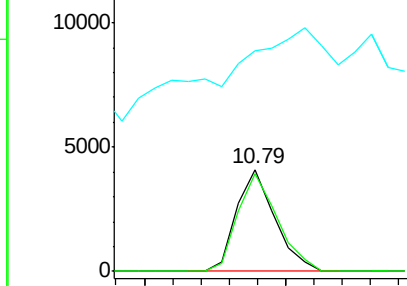
#41  
 2,4,6-Tribromophenol  
 Concen: 5.331 ng  
 RT: 10.79 min Scan# 1437  
 Delta R.T. 0.01 min  
 Lab File: BF107385.D  
 Acq: 14 Jul 2018 00:29

Instrument :  
 BNA\_F  
 ClientSampleId :  
 DRUM-2

Tgt Ion:330 Resp: 3863  
 Ion Ratio Lower Upper  
 330 100  
 332 99.9 77.0 115.6  
 141 266.0 29.9 44.9#

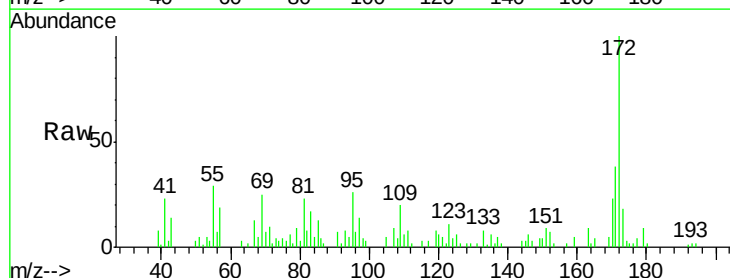


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

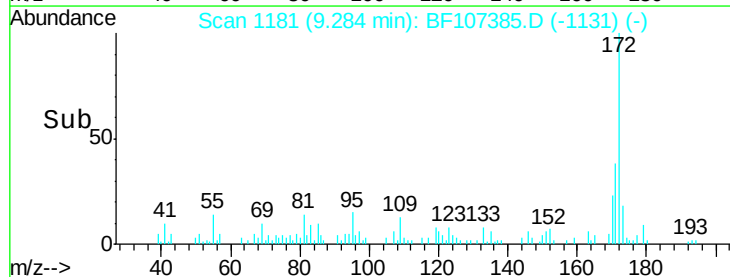
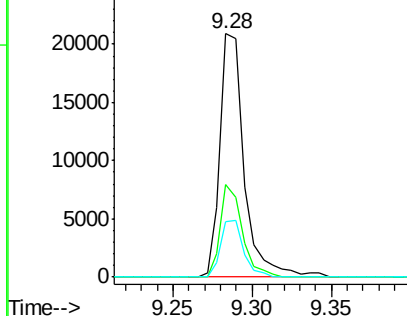


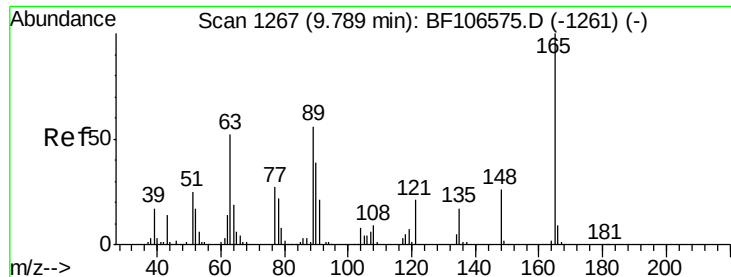
#44  
 2-Fluorobiphenyl  
 Concen: -10.573 ng  
 RT: 9.28 min Scan# 1181  
 Delta R.T. -0.01 min  
 Lab File: BF107385.D  
 Acq: 14 Jul 2018 00:29

Tgt Ion:172 Resp: 22209  
 Ion Ratio Lower Upper  
 172 100  
 171 37.9 29.7 44.5  
 170 22.6 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

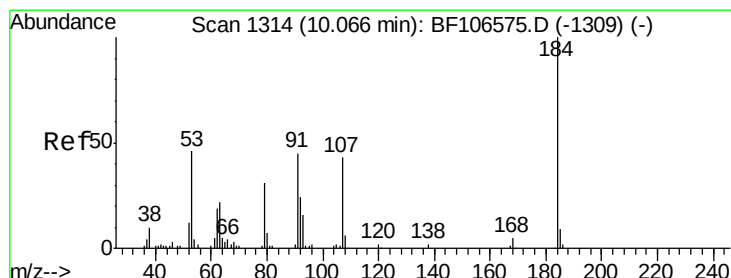
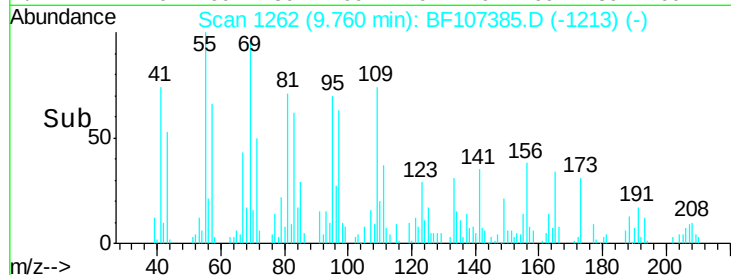
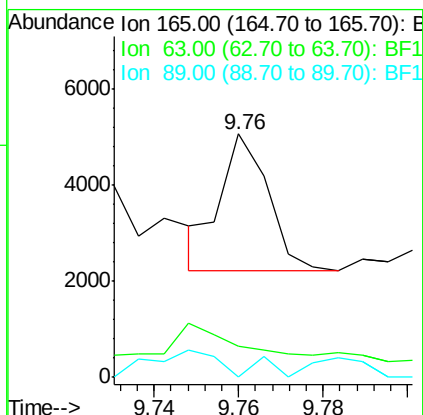
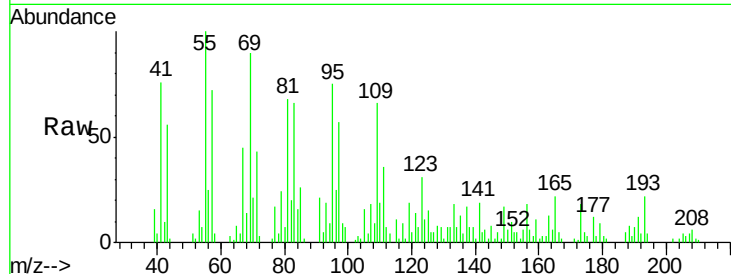




#50  
 2,6-Dinitrotoluene  
 Concen: 2.243 ng  
 RT: 9.76 min Scan# 1262  
 Delta R.T. -0.01 min  
 Lab File: BF107385.D  
 Acq: 14 Jul 2018 00:29

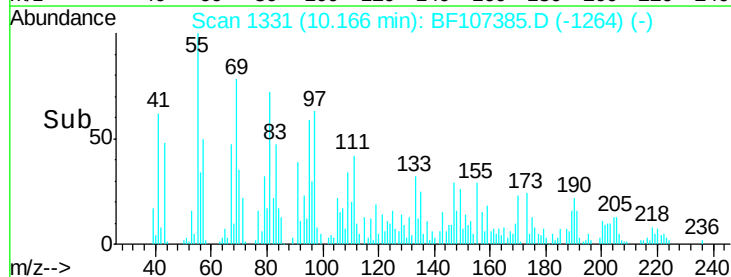
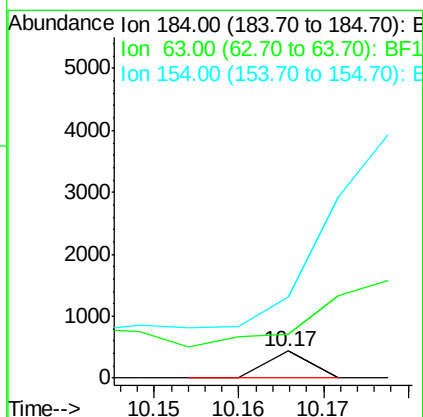
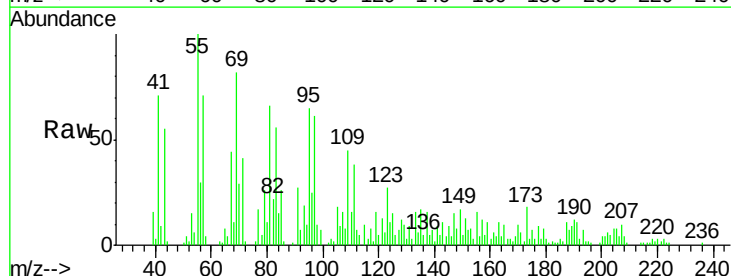
Instrument :  
 BNA\_F  
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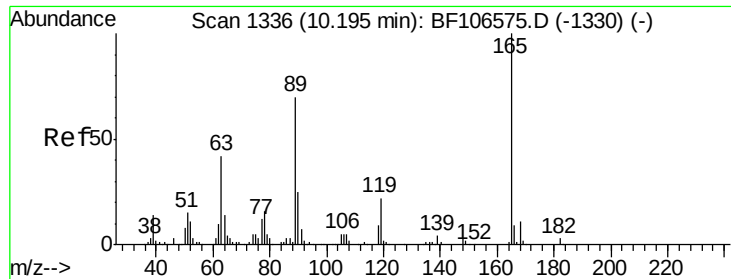
Tgt Ion:165 Resp: 2227  
 Ion Ratio Lower Upper  
 165 100  
 63 12.7 44.7 67.1#  
 89 0.0 44.0 66.0#



#53  
 2,4-Dinitrophenol  
 Concen: 5.631 ng  
 RT: 10.17 min Scan# 1331  
 Delta R.T. 0.09 min  
 Lab File: BF107385.D  
 Acq: 14 Jul 2018 00:29

Tgt Ion:184 Resp: 154  
 Ion Ratio Lower Upper  
 184 100  
 63 162.0 54.2 81.2#  
 154 298.4 184.0 276.0#

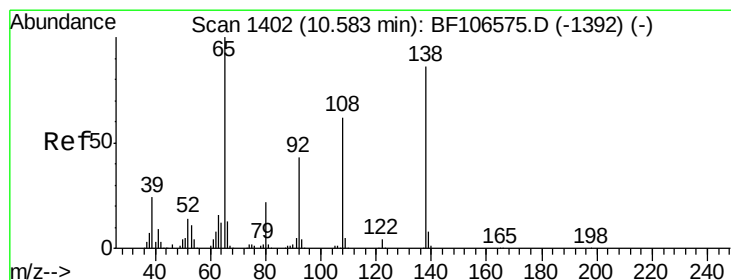
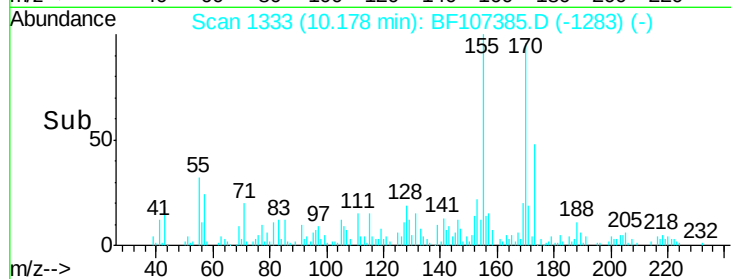
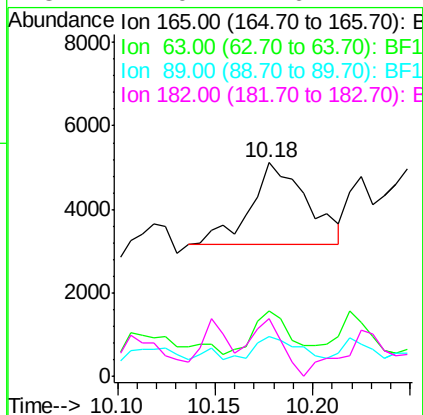
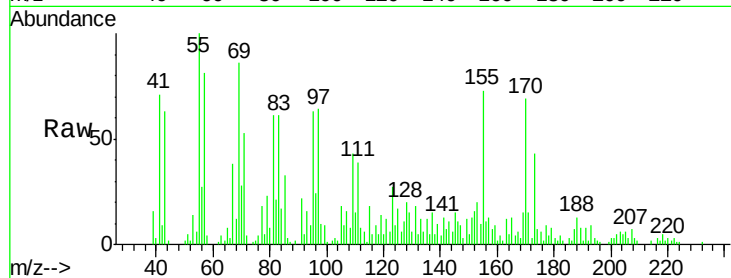




#56  
 2,4-Dinitrotoluene  
 Concen: 2.976 ng  
 RT: 10.18 min Scan# 1333  
 Delta R.T. -0.01 min  
 Lab File: BF107385.D  
 Acq: 14 Jul 2018 00:29

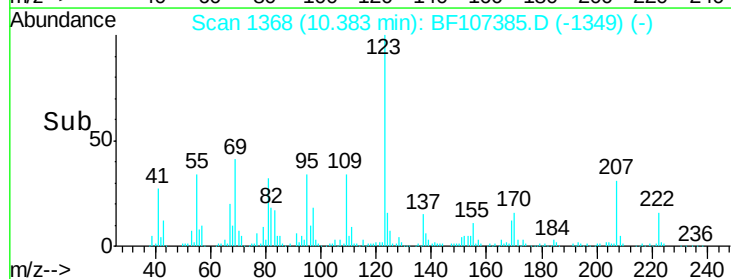
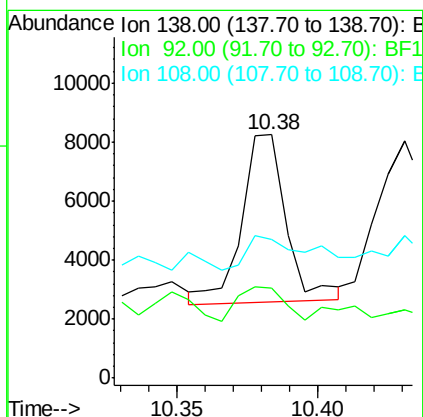
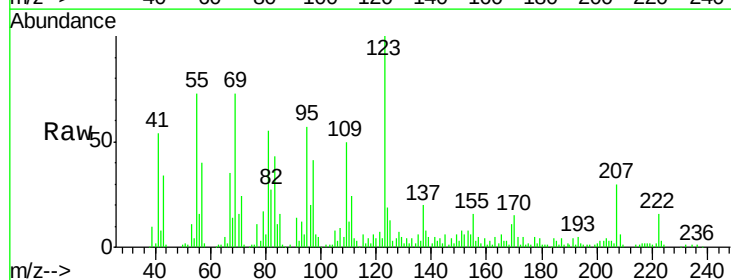
Instrument :  
 BNA\_F  
 ClientSampleId :  
 DRUM-2

Tgt Ion:165 Resp: 3857  
 Ion Ratio Lower Upper  
 165 100  
 63 30.7 36.4 54.6#  
 89 18.6 57.8 86.6#  
 182 27.0 1.6 2.4#

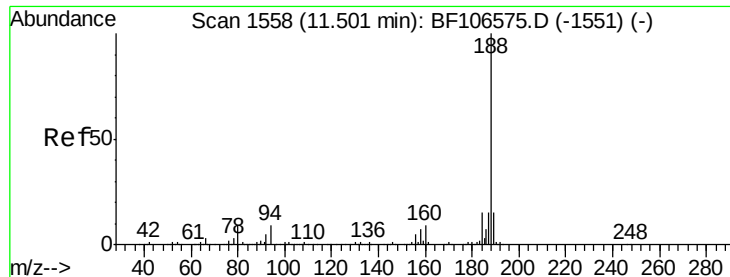


#61  
 4-Nitroaniline  
 Concen: 5.549 ng  
 RT: 10.38 min Scan# 1368  
 Delta R.T. -0.19 min  
 Lab File: BF107385.D  
 Acq: 14 Jul 2018 00:29

Tgt Ion:138 Resp: 6292  
 Ion Ratio Lower Upper  
 138 100  
 92 36.8 30.2 70.2  
 108 56.7 52.5 92.5







#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.50 min Scan# 1557

Delta R.T. 0.02 min

Lab File: BF107385.D

Acq: 14 Jul 2018 00:29

Instrument :

BNA\_F

ClientSampleId :

DRUM-2

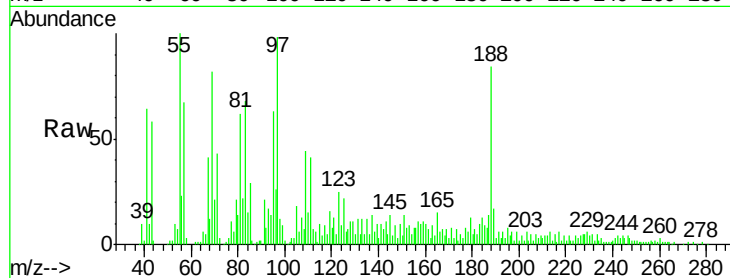
Tgt Ion:188 Resp: 66551

Ion Ratio Lower Upper

188 100

94 16.2 8.5 12.7#

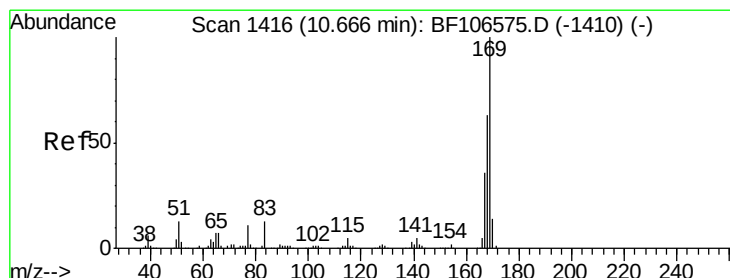
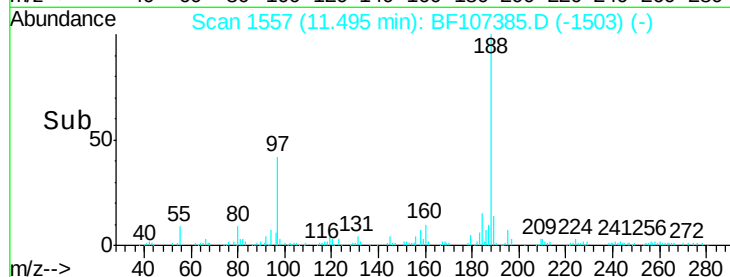
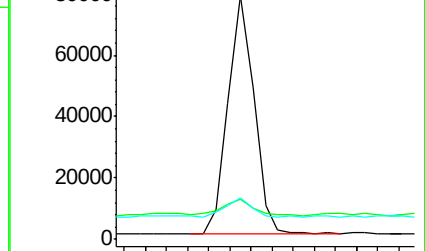
80 17.2 9.2 13.8#



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



#65

n-Nitrosodiphenylamine

Concen: 6.121 ng

RT: 10.64 min Scan# 1412

Delta R.T. 0.00 min

Lab File: BF107385.D

Acq: 14 Jul 2018 00:29

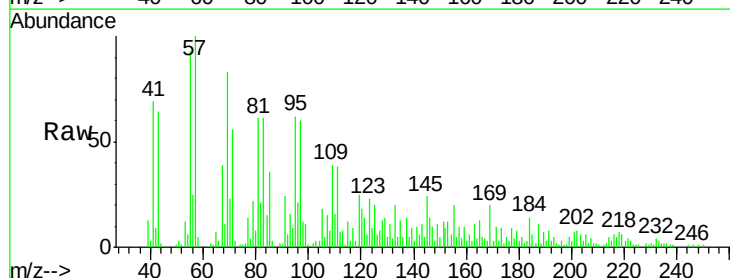
Tgt Ion:169 Resp: 13701

Ion Ratio Lower Upper

169 100

168 13.8 54.4 81.6#

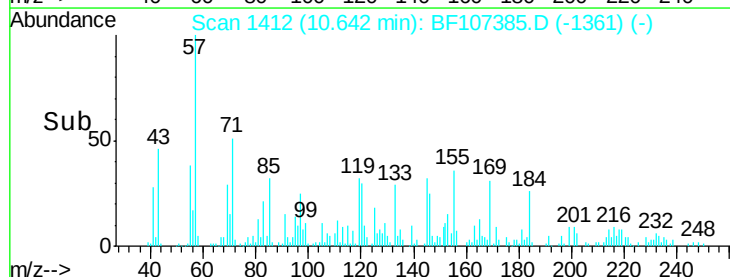
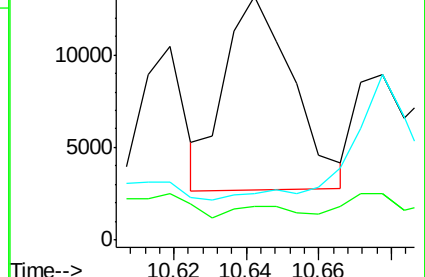
167 18.9 29.8 44.6#

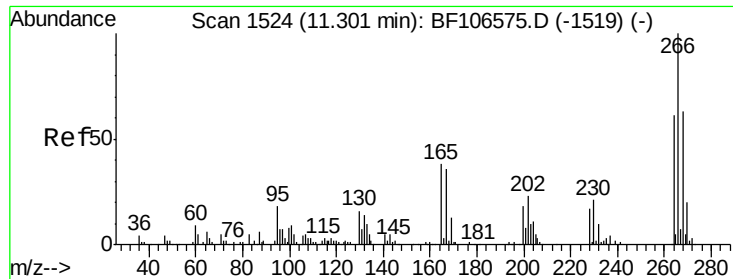


Abundance Ion 169.00 (168.70 to 169.70): E

Ion 168.00 (167.70 to 168.70): E

Ion 167.00 (166.70 to 167.70): E





#69

Pentachlorophenol

Concen: 3.845 ng

RT: 11.31 min Scan# 1525

Delta R.T. 0.01 min

Lab File: BF107385.D

Acq: 14 Jul 2018 00:29

Instrument :

BNA\_F

ClientSampleId :

DRUM-2

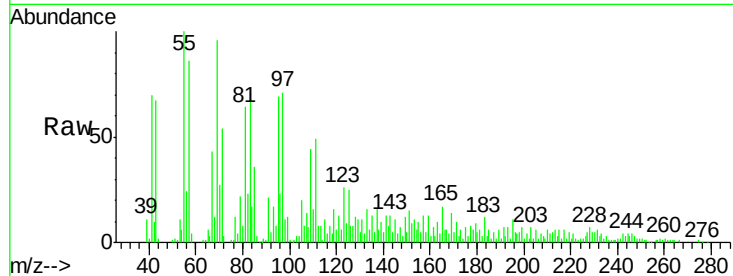
Tgt Ion:266 Resp: 1595

Ion Ratio Lower Upper

266 100

268 0.0 51.1 76.7#

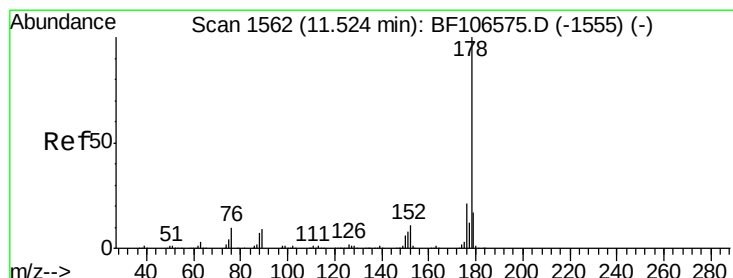
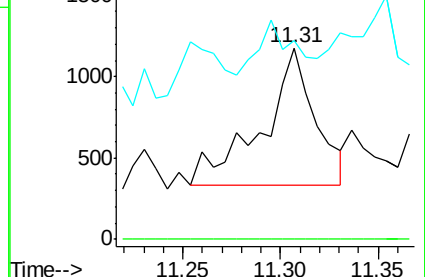
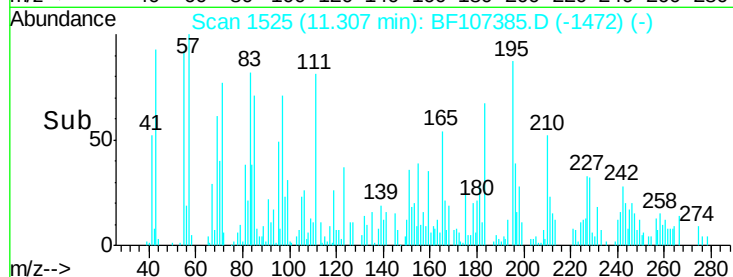
264 103.9 49.5 74.3#



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



#70

Phenanthrene

Concen: 10.381 ng

RT: 11.52 min Scan# 1561

Delta R.T. 0.02 min

Lab File: BF107385.D

Acq: 14 Jul 2018 00:29

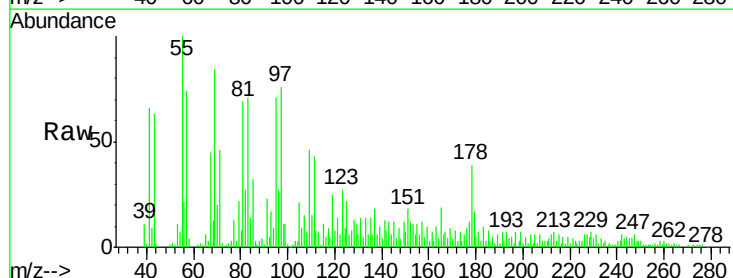
Tgt Ion:178 Resp: 33323

Ion Ratio Lower Upper

178 100

176 22.9 15.8 23.8

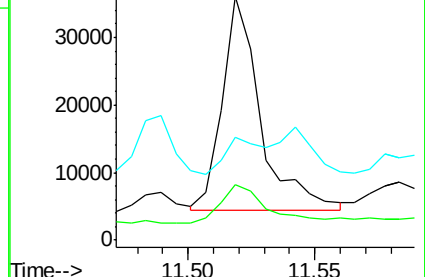
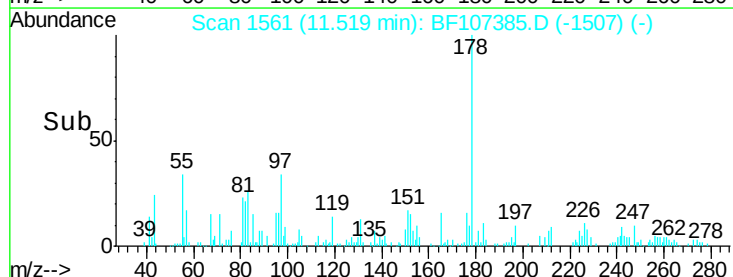
179 42.1 13.0 19.6#

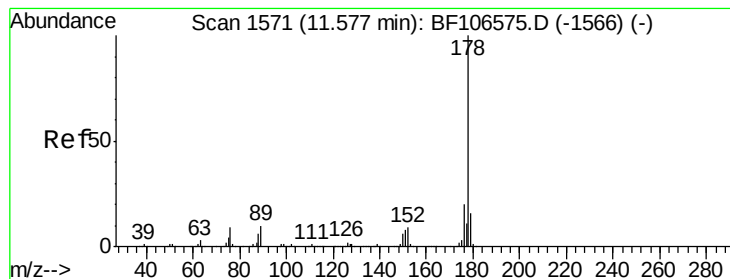


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#71

Anthracene

Concen: 4.512 ng

RT: 11.61 min Scan# 1576

Delta R.T. 0.05 min

Lab File: BF107385.D

Acq: 14 Jul 2018 00:29

Instrument :

BNA\_F

ClientSampleId :

DRUM-2

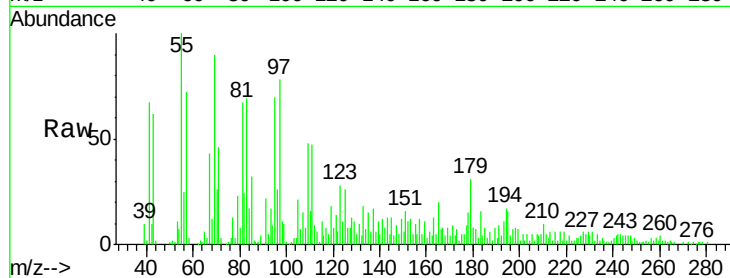
Tgt Ion:178 Resp: 14784

Ion Ratio Lower Upper

178 100

176 30.4 15.4 23.2#

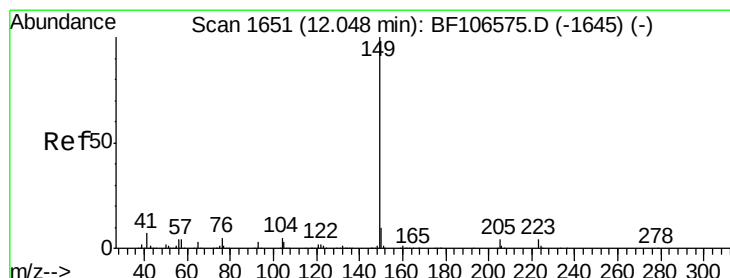
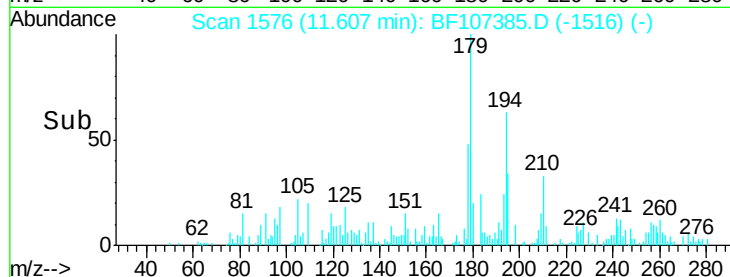
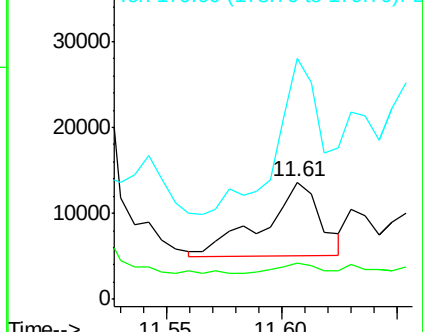
179 205.1 12.6 19.0#



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#73

Di-n-butylphthalate

Concen: 4.029 ng

RT: 12.04 min Scan# 1649

Delta R.T. 0.02 min

Lab File: BF107385.D

Acq: 14 Jul 2018 00:29

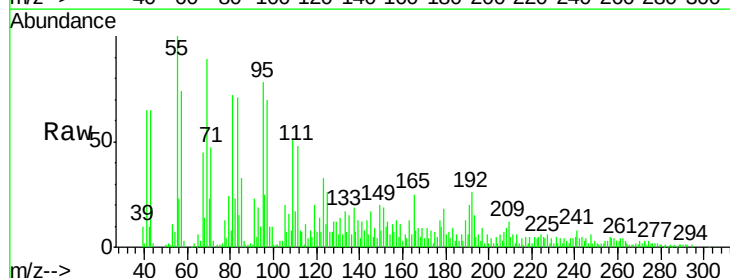
Tgt Ion:149 Resp: 14561

Ion Ratio Lower Upper

149 100

150 39.2 7.8 11.6#

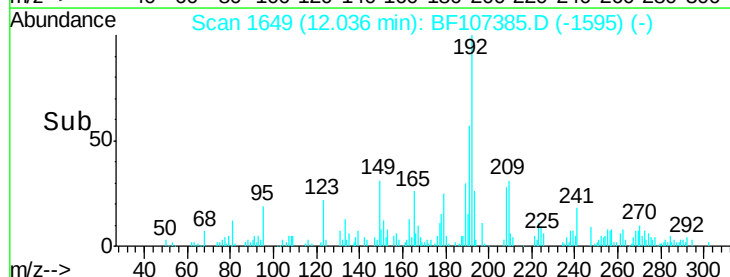
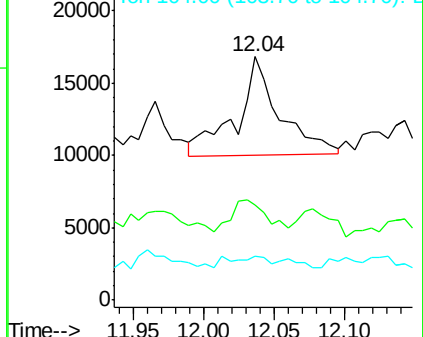
104 17.8 3.8 5.8#

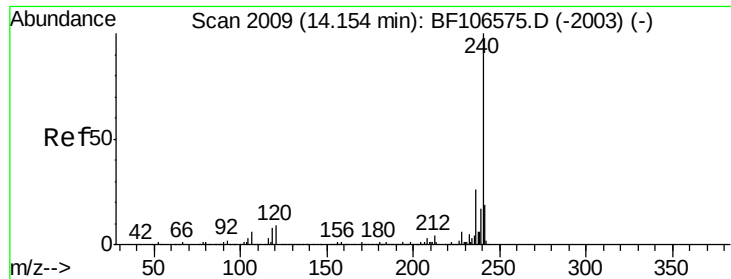


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.15 min Scan# 2008

Delta R.T. 0.01 min

Lab File: BF107385.D

Acq: 14 Jul 2018 00:29

Instrument :

BNA\_F

ClientSampleId :

DRUM-2

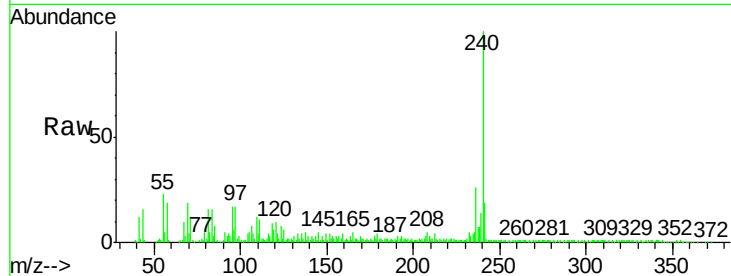
Tgt Ion:240 Resp: 121497

Ion Ratio Lower Upper

240 100

120 10.3 9.5 14.3

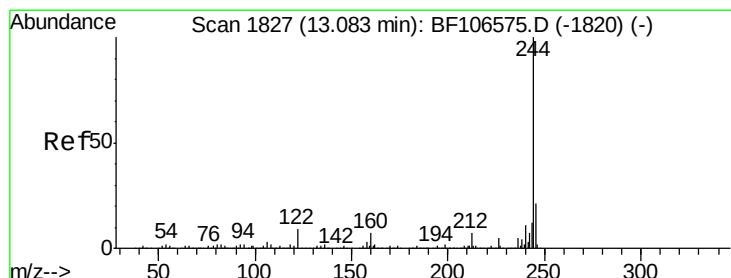
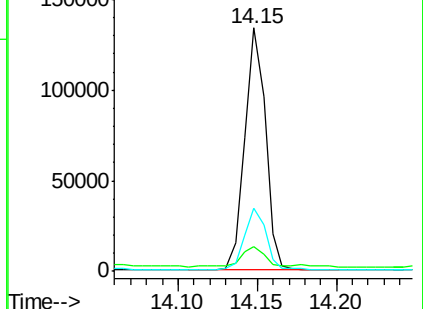
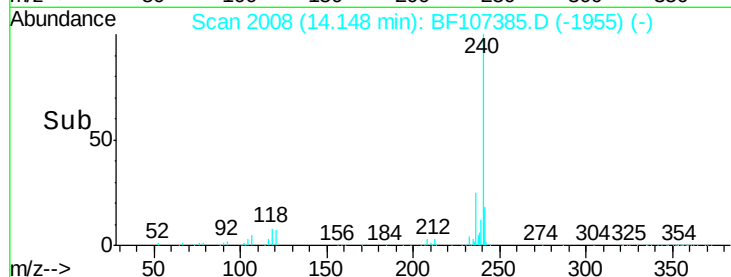
236 26.2 20.7 31.1



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: 4.495 ng

RT: 13.08 min Scan# 1827

Delta R.T. 0.02 min

Lab File: BF107385.D

Acq: 14 Jul 2018 00:29

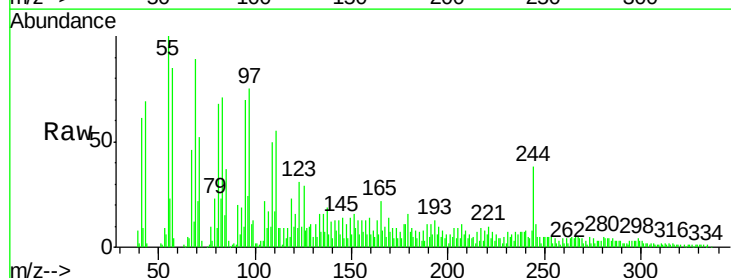
Tgt Ion:244 Resp: 22547

Ion Ratio Lower Upper

244 100

212 10.6 5.4 8.0#

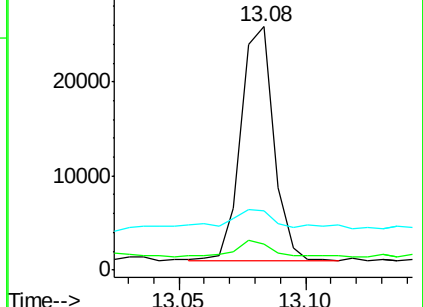
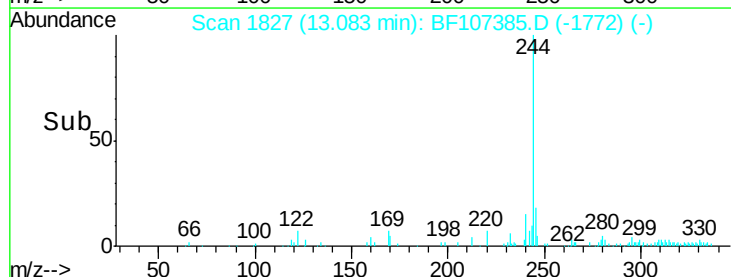
122 24.5 11.0 16.4#

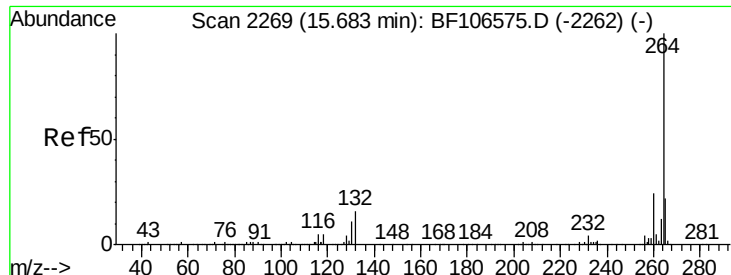


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.68 min Scan# 2268  
Delta R.T. 0.01 min  
Lab File: BF107385.D  
Acq: 14 Jul 2018 00:29

Instrument :  
BNA\_F  
ClientSampleId :  
DRUM-2

Tgt Ion: 264 Resp: 98791  
Ion Ratio Lower Upper  
264 100  
260 23.7 19.2 28.8  
265 21.5 17.5 26.3

