

Data Path : U:\HPCHEM1\BNA F\DATA\BF011618\  
 Data File : BF102101.D  
 Acq On : 16 Jan 2018 11:33  
 Operator : SJ/JU  
 Sample : J1117-02  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 UST-1 14.5-15.0

Quant Time: Jan 17 10:57:06 2018  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF010918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Jan 11 12:53:54 2018  
 Response via : Initial Calibration

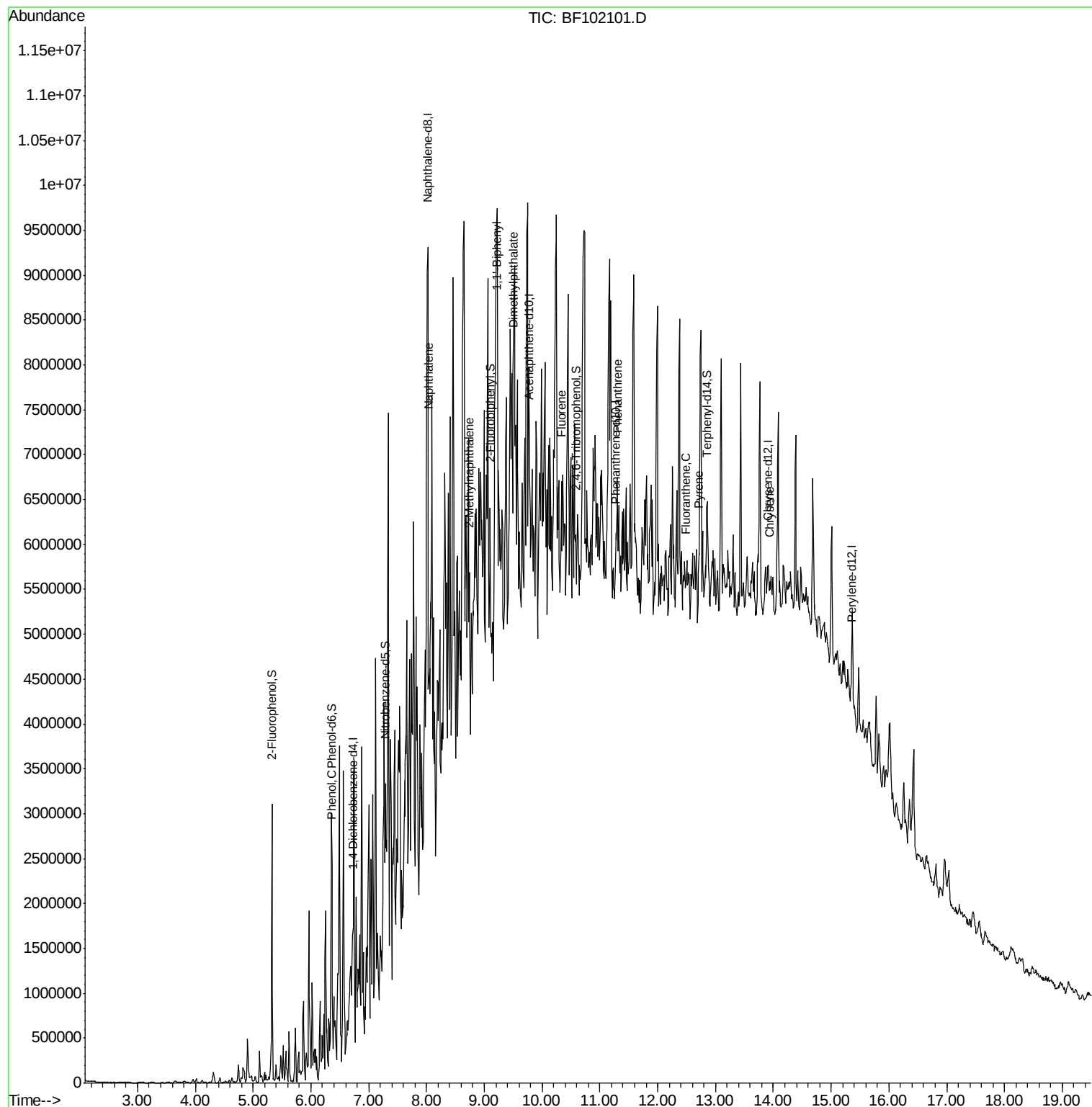
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.72  | 152  | 133639   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.02  | 136  | 236277   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10        | 9.79  | 164  | 154488   | 20.00  | ng    | 0.02     |
| 63) Phenanthrene-d10        | 11.27 | 188  | 216213   | 20.00  | ng    | 0.02     |
| 75) Chrysene-d12            | 13.91 | 240  | 164846   | 20.00  | ng    | 0.03     |
| 86) Perylene-d12            | 15.34 | 264  | 151277   | 20.00  | ng    | 0.05     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.33  | 112  | 863514   | 91.24  | ng    | 0.00     |
| 7) Phenol-d6                | 6.36  | 99   | 1034078  | 91.58  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.29  | 82   | 605274   | 150.54 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 10.57 | 330  | 114775   | 85.13  | ng    | 0.02     |
| 44) 2-Fluorobiphenyl        | 9.10  | 172  | 765097   | 77.37  | ng    | 0.00     |
| 78) Terphenyl-d14           | 12.86 | 244  | 461332   | 58.11  | ng    | 0.02     |
| Target Compounds            |       |      |          |        |       | Qvalue   |
| 10) Phenol                  | 6.37  | 94   | 31488    | 2.468  | ng    | 88       |
| 31) Naphthalene             | 8.03  | 128  | 81985    | 6.944  | ng    | # 61     |
| 37) 2-Methylnaphthalene     | 8.74  | 142  | 643052   | 82.735 | ng    | 97       |
| 45) 1,1'-Biphenyl           | 9.20  | 154  | 341740   | 25.027 | ng    | 97       |
| 49) Dimethylphthalate       | 9.49  | 163  | 108676   | 8.769  | ng    | # 78     |
| 57) Fluorene                | 10.33 | 166  | 209381   | 21.637 | ng    | # 75     |
| 70) Phenanthrene            | 11.30 | 178  | 689939   | 54.628 | ng    | 97       |
| 74) Fluoranthene            | 12.49 | 202  | 69761    | 5.614  | ng    | 68       |
| 77) Pyrene                  | 12.72 | 202  | 282933   | 19.417 | ng    | # 94     |
| 82) Chrysene                | 13.93 | 228  | 131159   | 11.959 | ng    | # 72     |

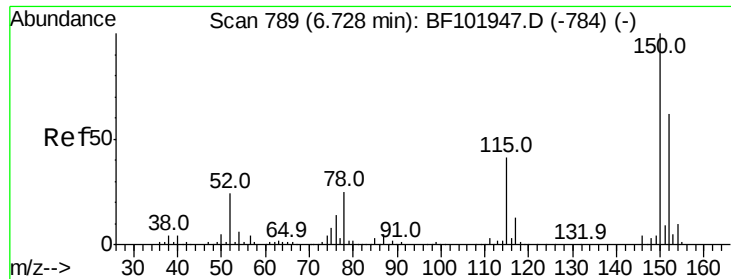
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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UST-1 14.5-15.0

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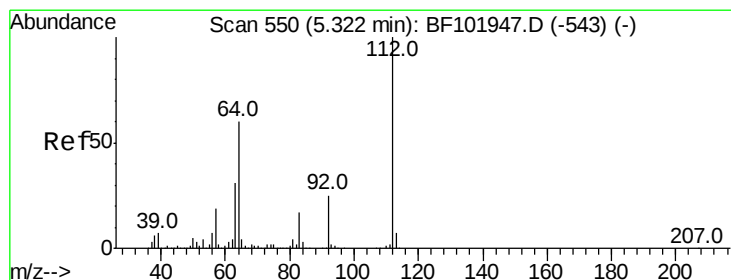
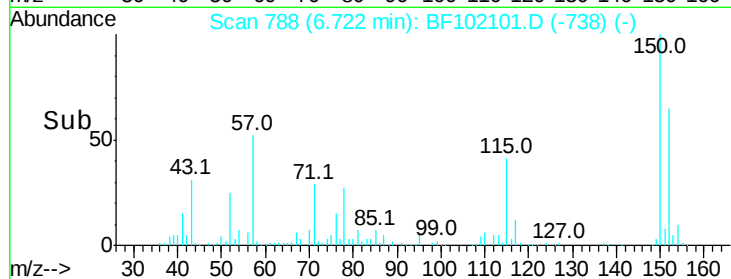
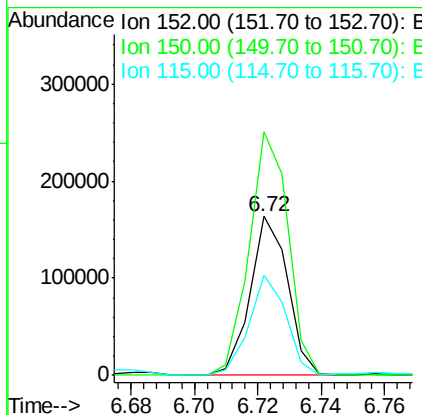
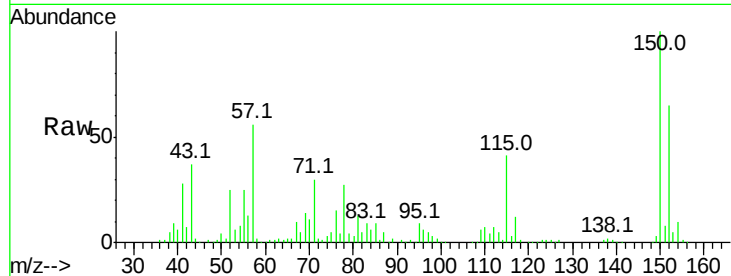


#1

1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.72 min Scan# 788  
 Delta R.T. -0.01 min  
 Lab File: BF102101.D  
 Acq: 16 Jan 2018 11:33

Instrument :  
 BNA\_F  
 ClientSampleId :  
 UST-1 14.5-15.0

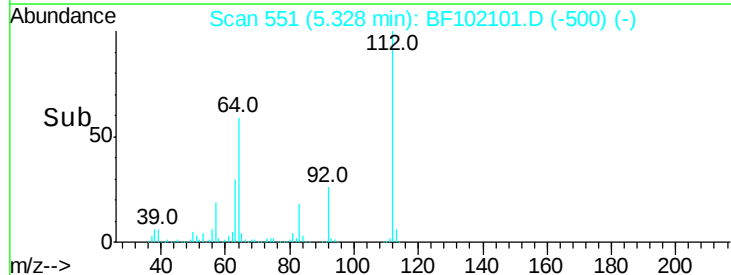
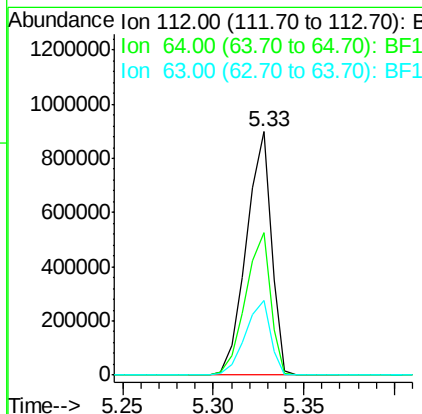
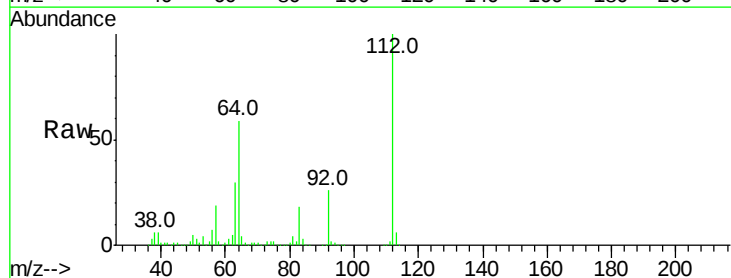
Tot Ion:152 Resp: 133639  
 Ion Ratio Lower Upper  
 152 100  
 150 153.4 124.6 186.8  
 115 62.9 50.1 75.1

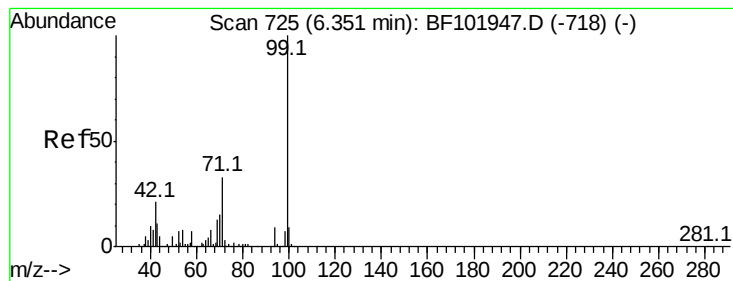


#5

2-Fluorophenol  
 Concen: 91.242 ng  
 RT: 5.33 min Scan# 551  
 Delta R.T. -0.00 min  
 Lab File: BF102101.D  
 Acq: 16 Jan 2018 11:33

Tgt Ion:112 Resp: 863514  
 Ion Ratio Lower Upper  
 112 100  
 64 58.8 47.9 71.9  
 63 30.4 23.7 35.5





#7

Phenol-d6

Concen: 91.580 ng

RT: 6.36 min Scan# 726

Delta R.T. -0.01 min

Lab File: BF102101.D

Acq: 16 Jan 2018 11:33

Instrument :

BNA\_F

ClientSampleId :

UST-1 14.5-15.0

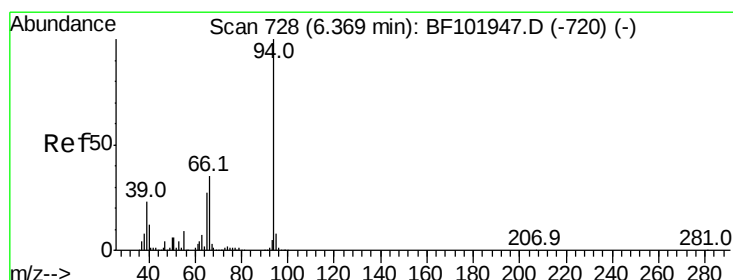
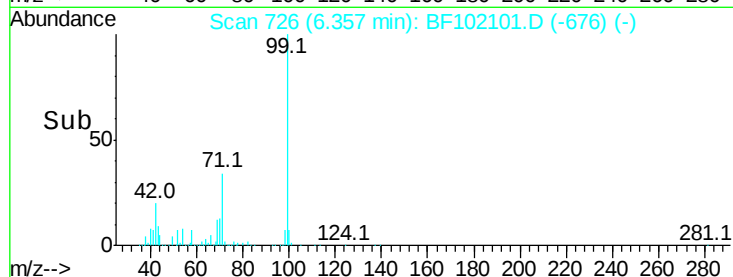
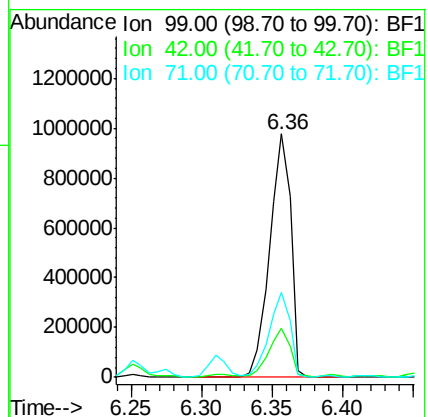
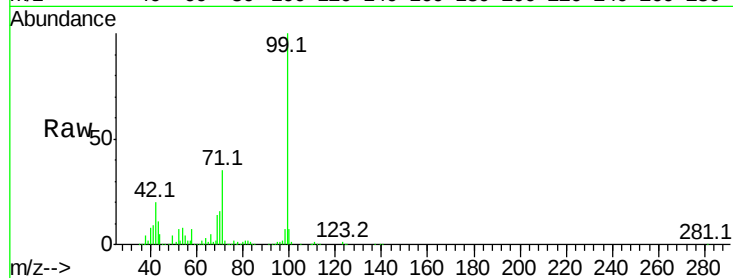
Tot Ion: 99 Resp: 1034078

Ion Ratio Lower Upper

99 100

42 20.3 14.5 21.7

71 34.7 25.4 38.0



#10

Phenol

Concen: 2.468 ng

RT: 6.37 min Scan# 728

Delta R.T. -0.01 min

Lab File: BF102101.D

Acq: 16 Jan 2018 11:33

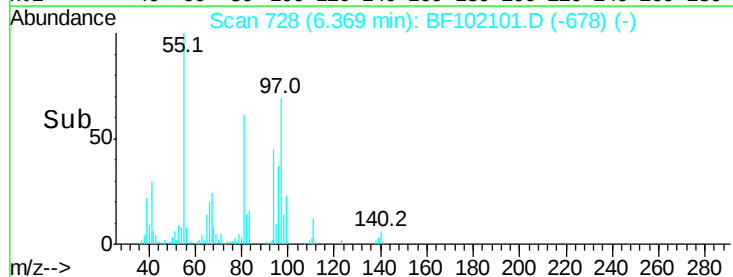
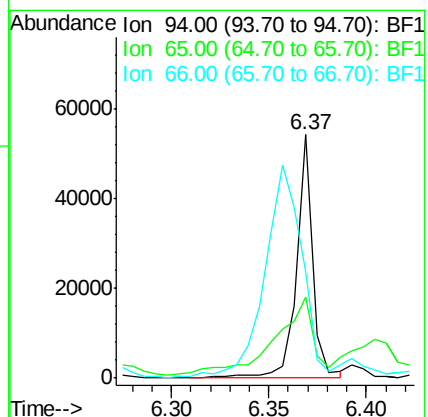
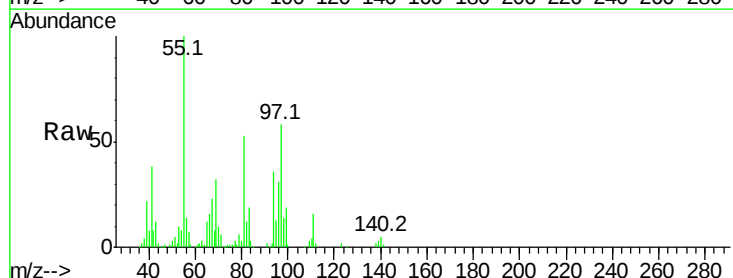
Tgt Ion: 94 Resp: 31488

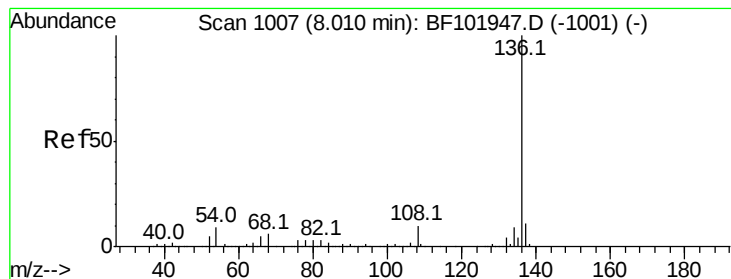
Ion Ratio Lower Upper

94 100

65 33.1 7.9 47.9

66 43.9 16.2 56.2





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.02 min Scan# 1008

Delta R.T. 0.01 min

Lab File: BF102101.D

Acq: 16 Jan 2018 11:33

Instrument :

BNA\_F

ClientSampleId :

UST-1 14.5-15.0

Tot Ion:136 Resp: 236277

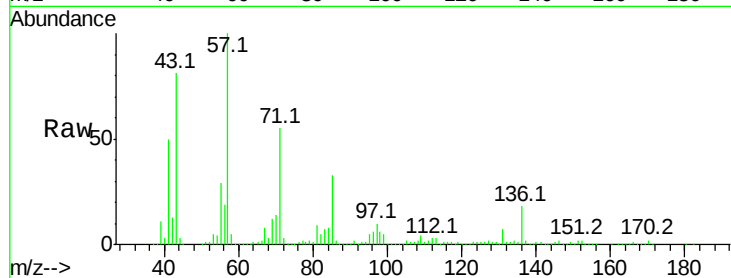
Ion Ratio Lower Upper

136 100

137 13.4 8.9 13.3#

54 24.2 6.6 9.8#

68 18.3 5.0 7.4#

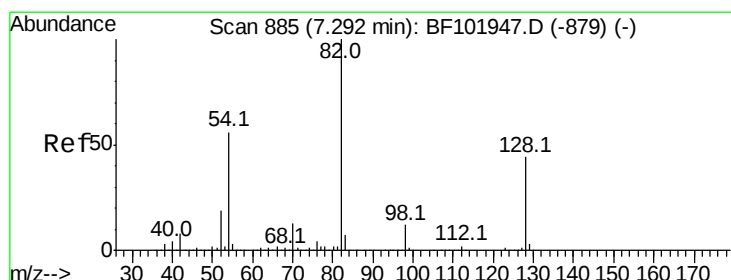
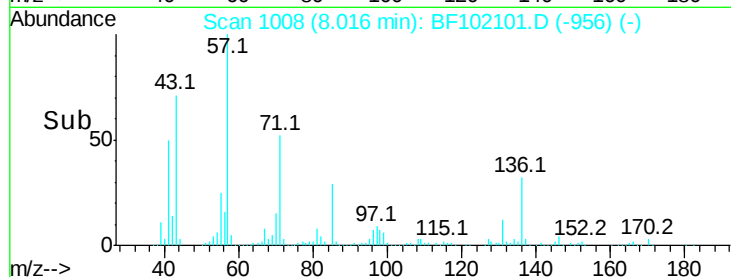
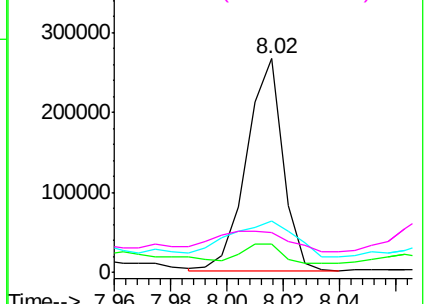


Abundance Ion 136.00 (135.70 to 136.70): E

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: 150.537 ng

RT: 7.29 min Scan# 885

Delta R.T. -0.01 min

Lab File: BF102101.D

Acq: 16 Jan 2018 11:33

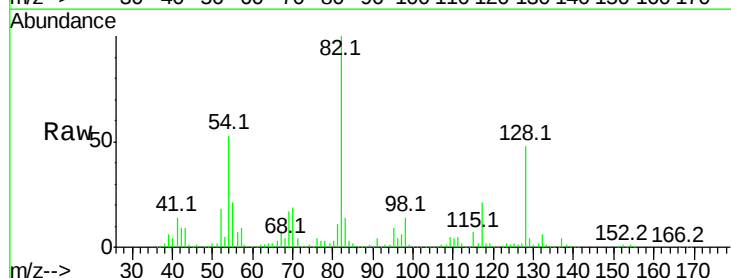
Tgt Ion: 82 Resp: 605274

Ion Ratio Lower Upper

82 100

128 48.1 36.1 54.1

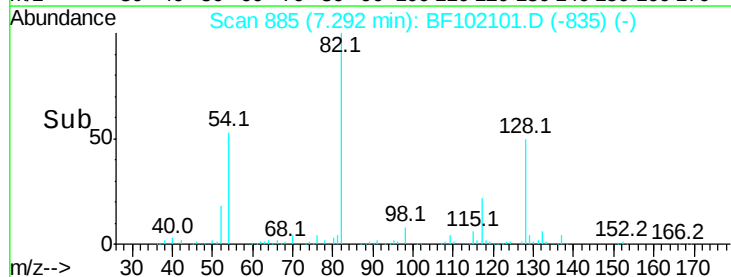
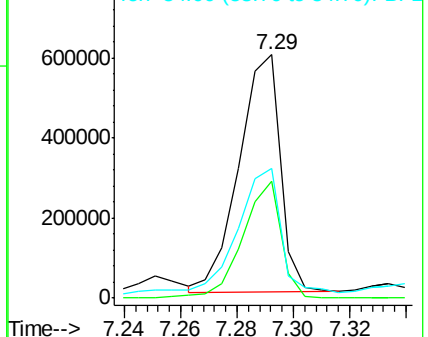
54 53.3 41.4 62.2

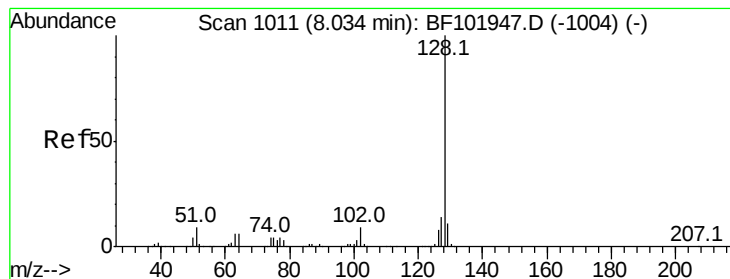


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#31

Naphthalene

Concen: 6.944 ng

RT: 8.03 min Scan# 1011

Delta R.T. -0.00 min

Lab File: BF102101.D

Acq: 16 Jan 2018 11:33

Instrument :

BNA\_F

ClientSampleId :

UST-1 14.5-15.0

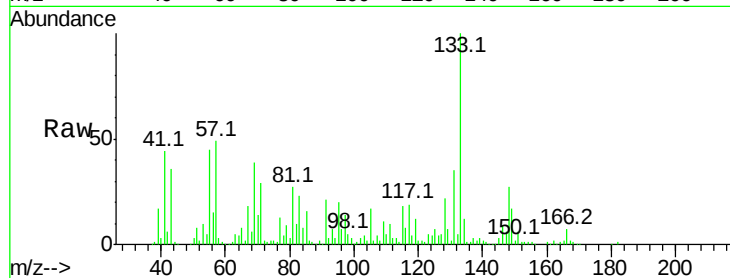
Tot Ion:128 Resp: 81985

Ion Ratio Lower Upper

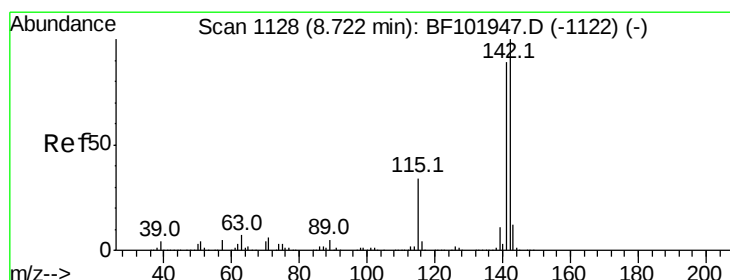
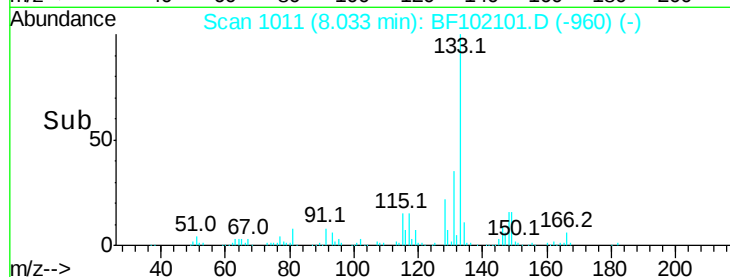
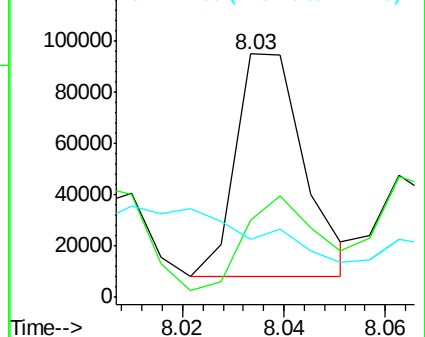
128 100

129 31.6 8.8 13.2#

127 23.9 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: 82.735 ng

RT: 8.74 min Scan# 1131

Delta R.T. 0.02 min

Lab File: BF102101.D

Acq: 16 Jan 2018 11:33

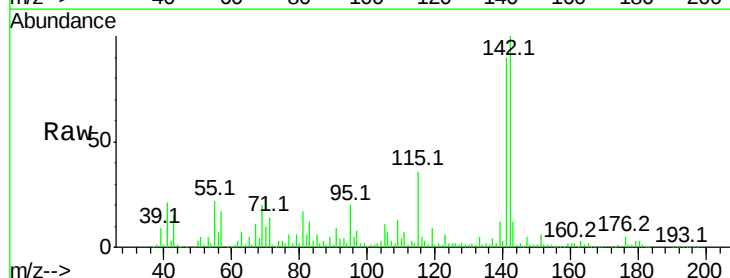
Tgt Ion:142 Resp: 643052

Ion Ratio Lower Upper

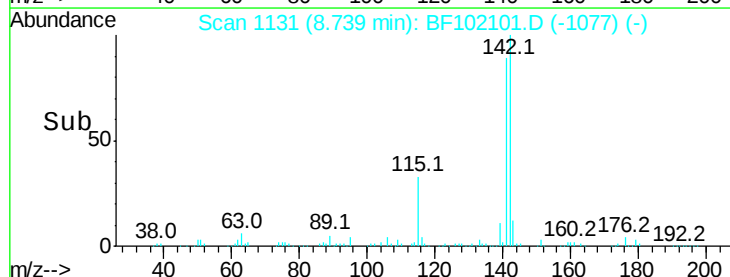
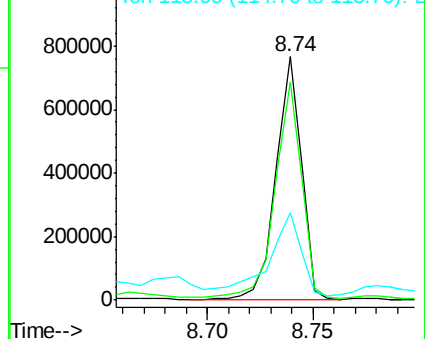
142 100

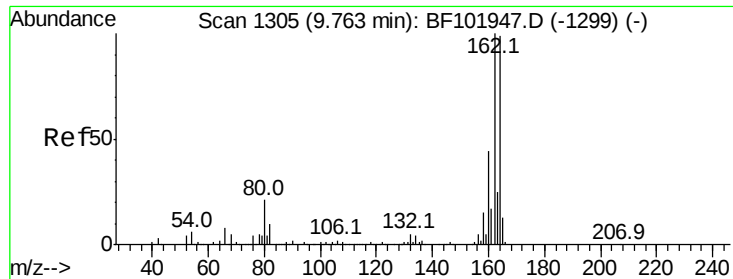
141 89.8 70.8 106.2

115 36.1 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: 9.79 min Scan# 1309

Delta R.T. 0.02 min

Lab File: BF102101.D

Acq: 16 Jan 2018 11:33

Instrument :

BNA\_F

ClientSampleId :

UST-1 14.5-15.0

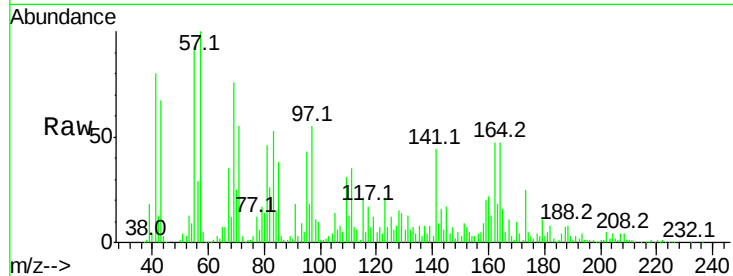
Tot Ion:164 Resp: 154488

Ion Ratio Lower Upper

164 100

162 101.4 86.1 129.1

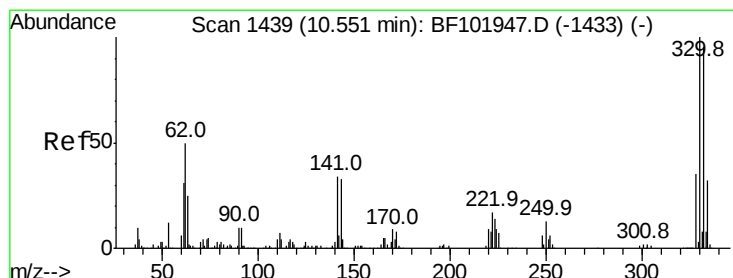
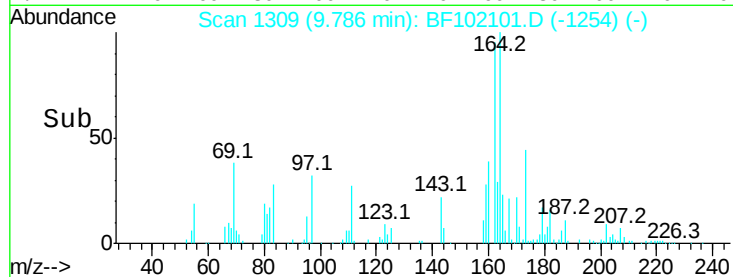
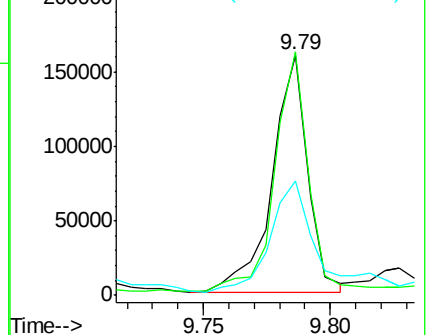
160 47.9 38.3 57.5



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: 85.132 ng

RT: 10.57 min Scan# 1443

Delta R.T. 0.02 min

Lab File: BF102101.D

Acq: 16 Jan 2018 11:33

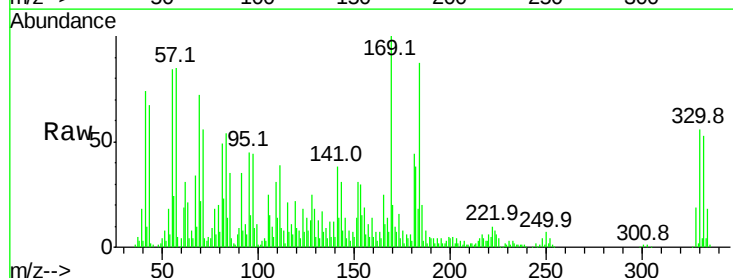
Tgt Ion:330 Resp: 114775

Ion Ratio Lower Upper

330 100

332 96.2 77.0 115.6

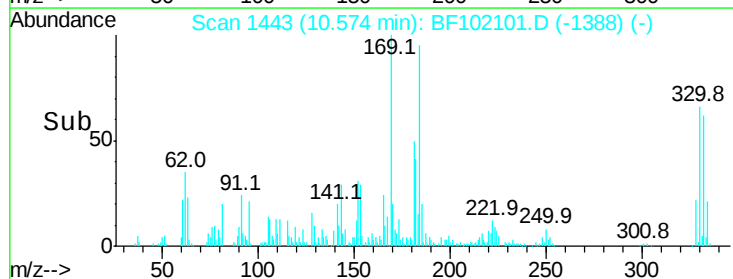
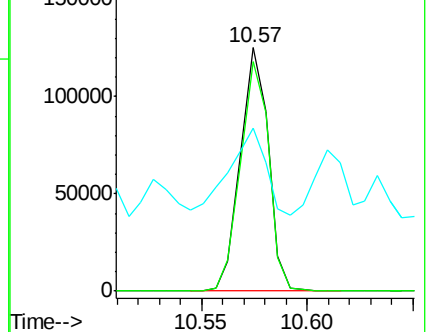
141 46.0 29.9 44.9#

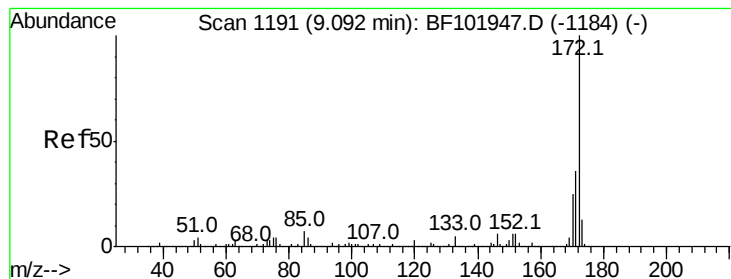


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

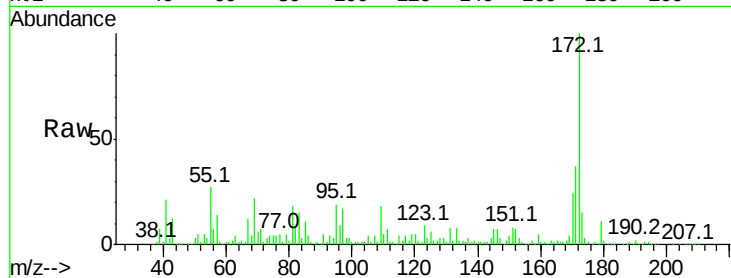




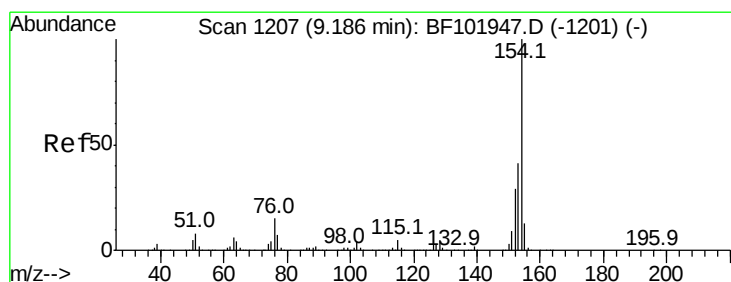
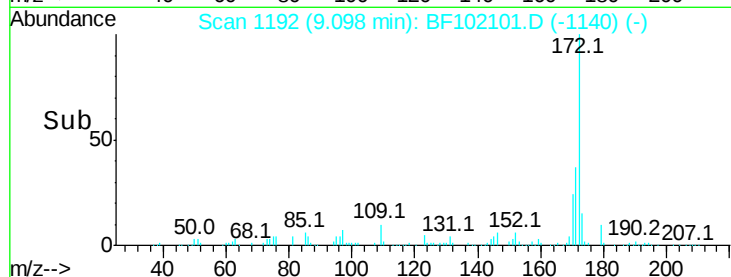
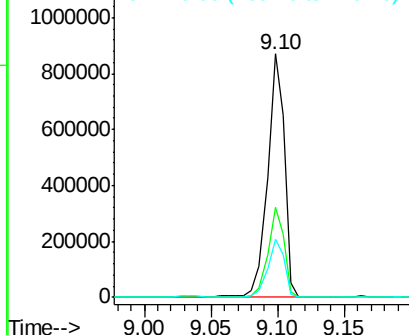
#44  
2-Fluorobiphenyl  
Concen: 77.371 ng  
RT: 9.10 min Scan# 1192  
Delta R.T. 0.01 min  
Lab File: BF102101.D  
Acq: 16 Jan 2018 11:33

Instrument :  
BNA\_F  
ClientSampleId :  
UST-1 14.5-15.0

Tot Ion:172 Resp: 765097  
Ion Ratio Lower Upper  
172 100  
171 36.7 29.7 44.5  
170 24.0 19.6 29.4

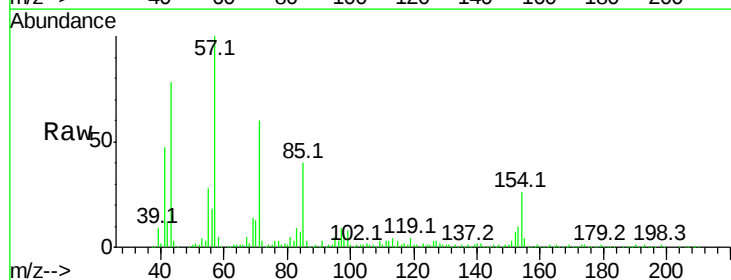


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

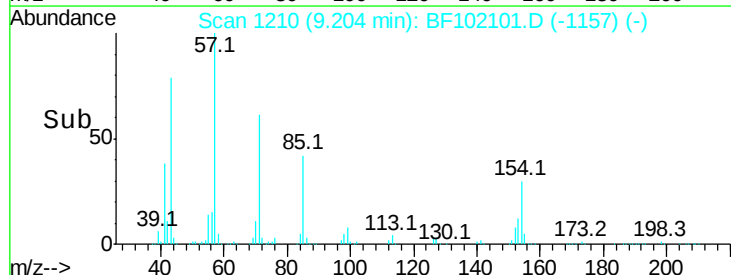
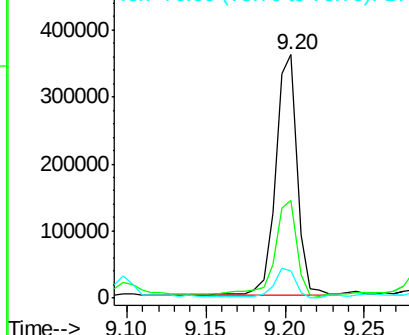


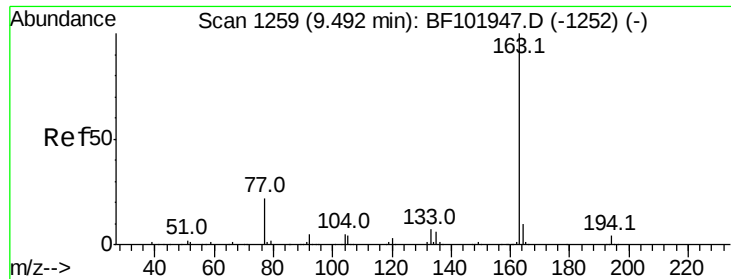
#45  
1,1'-Biphenyl  
Concen: 25.027 ng  
RT: 9.20 min Scan# 1210  
Delta R.T. 0.01 min  
Lab File: BF102101.D  
Acq: 16 Jan 2018 11:33

Tgt Ion:154 Resp: 341740  
Ion Ratio Lower Upper  
154 100  
153 40.0 21.3 61.3  
76 11.1 0.0 34.0



Abundance Ion 154.00 (153.70 to 154.70): E  
Ion 153.00 (152.70 to 153.70): E  
Ion 76.00 (75.70 to 76.70): BF1

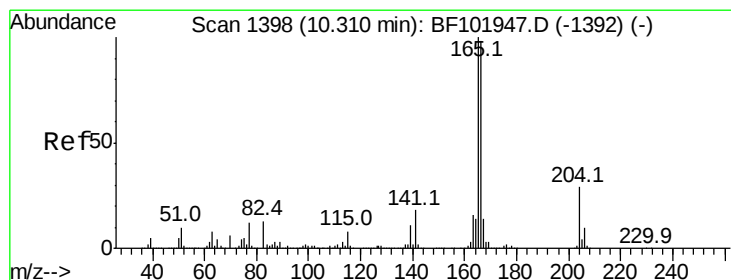
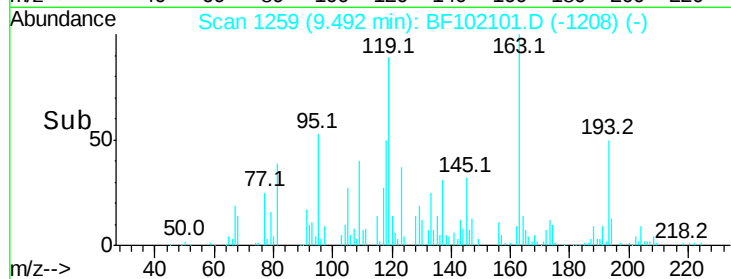
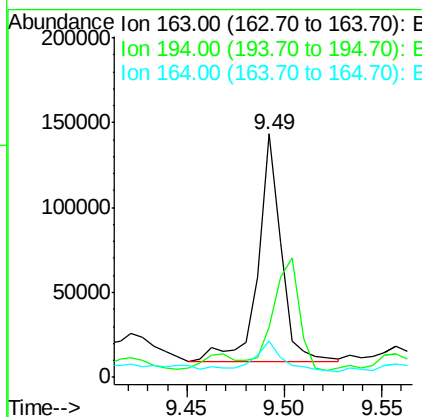
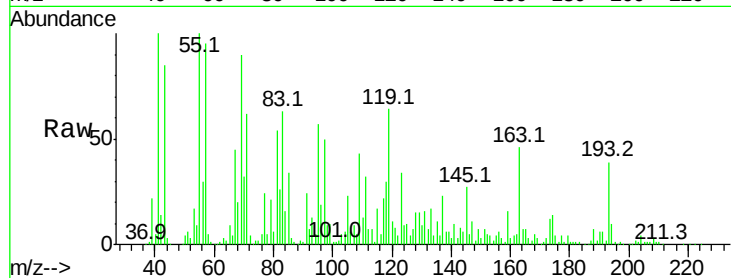




#49  
Dimethylphthalate  
Concen: 8.769 ng  
RT: 9.49 min Scan# 1259  
Delta R.T. -0.00 min  
Lab File: BF102101.D  
Acq: 16 Jan 2018 11:33

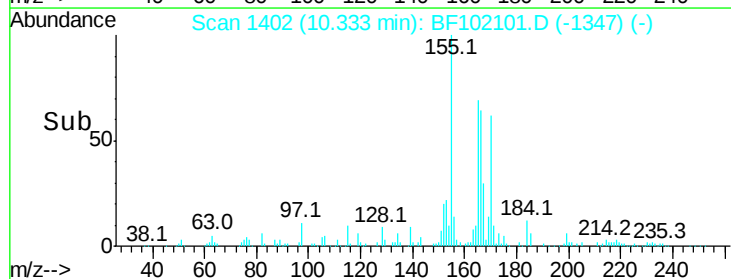
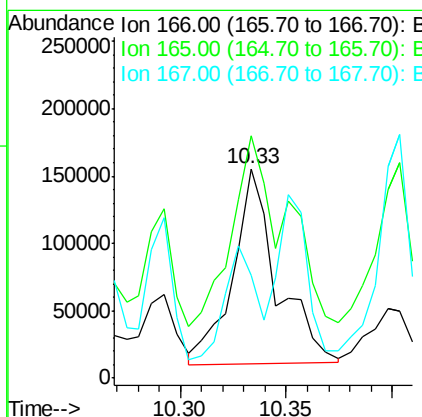
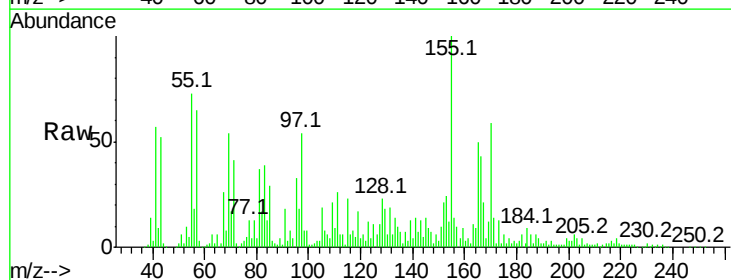
Instrument :  
BNA\_F  
ClientSampleId :  
UST-1 14.5-15.0

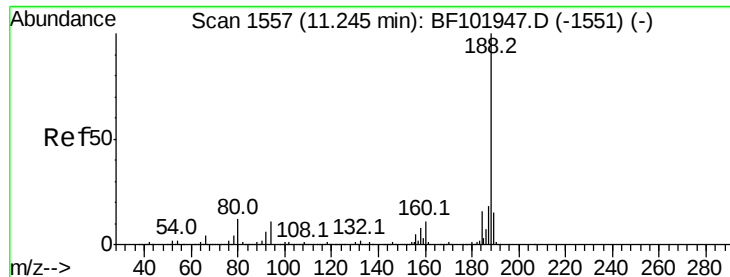
Tot Ion:163 Resp: 108676  
Ion Ratio Lower Upper  
163 100  
194 20.7 2.7 4.1#  
164 14.8 8.2 12.2#



#57  
Fluorene  
Concen: 21.637 ng  
RT: 10.33 min Scan# 1402  
Delta R.T. 0.02 min  
Lab File: BF102101.D  
Acq: 16 Jan 2018 11:33

Tgt Ion:166 Resp: 209381  
Ion Ratio Lower Upper  
166 100  
165 116.0 79.8 119.8  
167 49.1 10.6 16.0#





#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.27 min Scan# 1561

Delta R.T. 0.02 min

Lab File: BF102101.D

Acq: 16 Jan 2018 11:33

Instrument :

BNA\_F

ClientSampleId :

UST-1 14.5-15.0

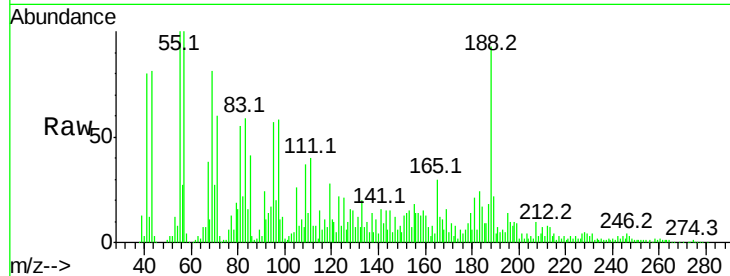
Tot Ion:188 Resp: 216213

Ion Ratio Lower Upper

188 100

94 18.3 8.5 12.7#

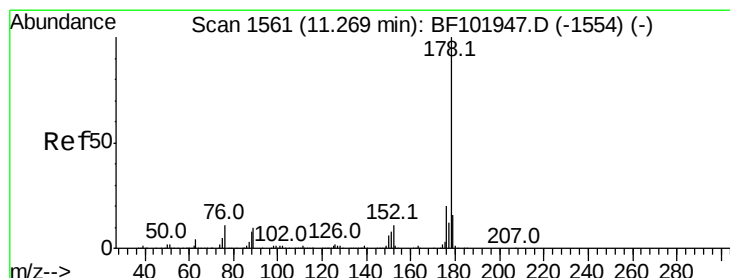
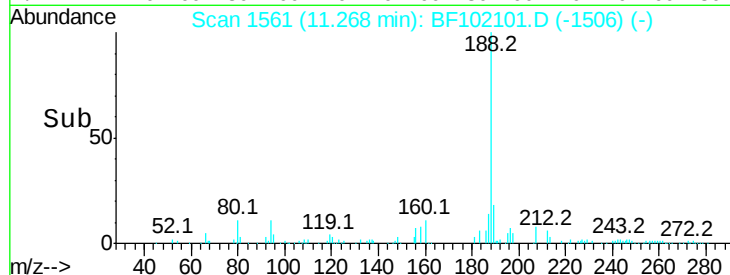
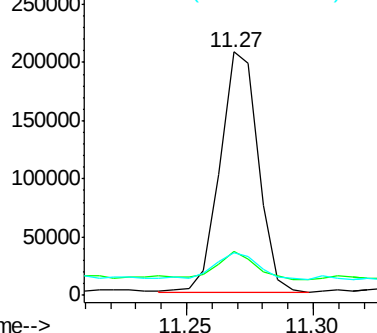
80 17.7 9.2 13.8#



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



#70

Phenanthrene

Concen: 54.628 ng

RT: 11.30 min Scan# 1566

Delta R.T. 0.03 min

Lab File: BF102101.D

Acq: 16 Jan 2018 11:33

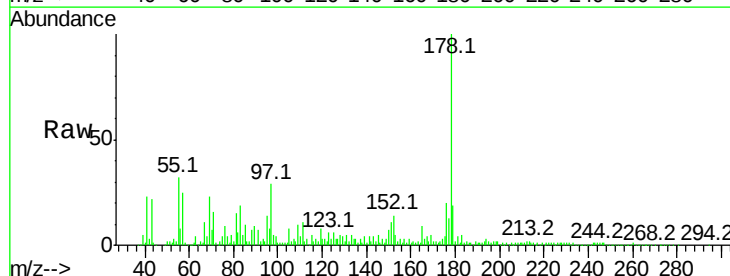
Tgt Ion:178 Resp: 689939

Ion Ratio Lower Upper

178 100

176 19.9 15.8 23.8

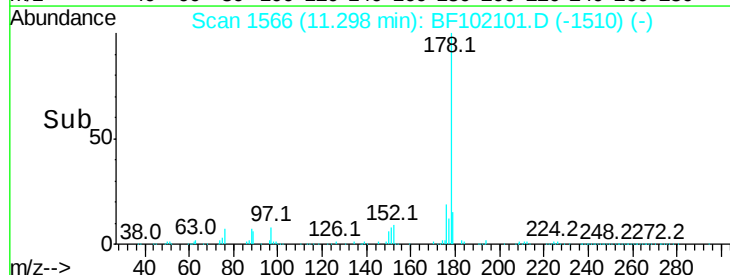
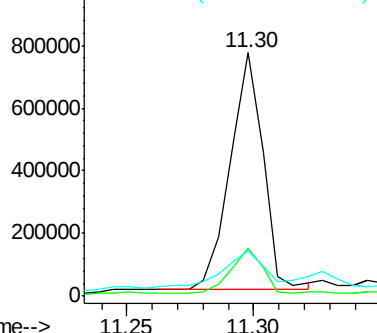
179 18.8 13.0 19.6

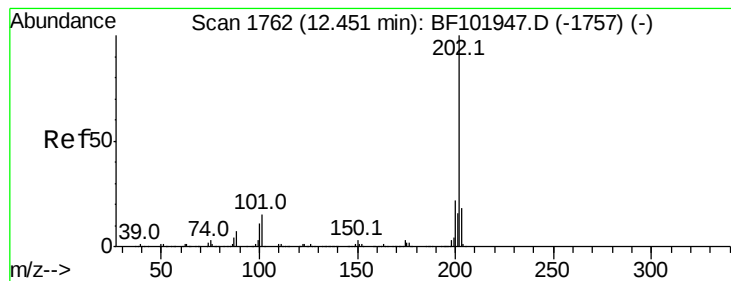


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 5.614 ng

RT: 12.49 min Scan# 1768

Delta R.T. 0.03 min

Lab File: BF102101.D

Acq: 16 Jan 2018 11:33

Instrument :

BNA\_F

ClientSampleId :

UST-1 14.5-15.0

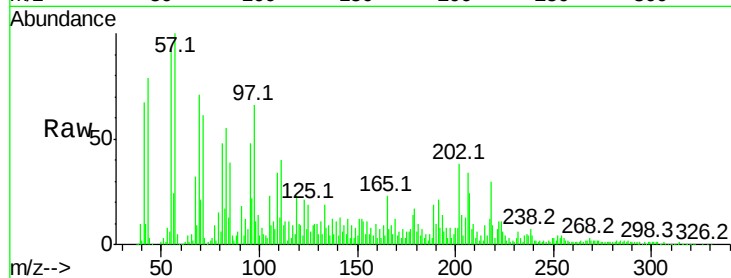
Tot Ion:202 Resp: 69761

Ion Ratio Lower Upper

202 100

101 21.3 0.0 34.1

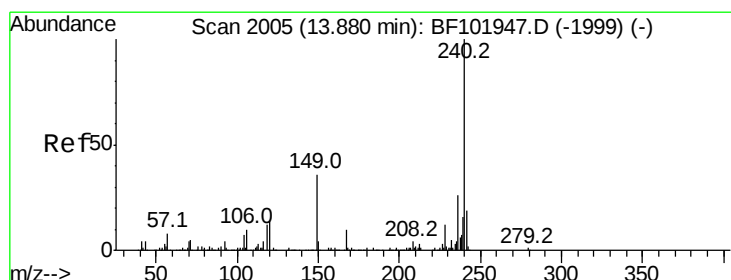
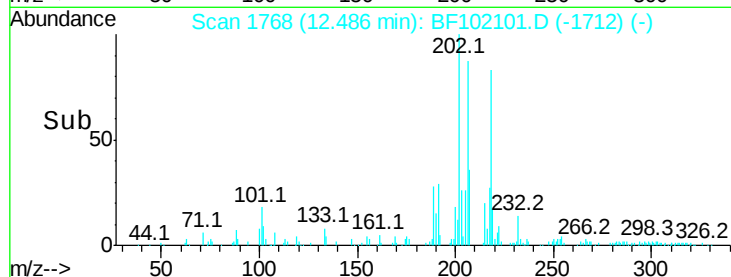
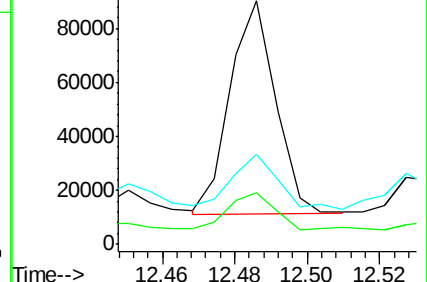
203 36.9 0.0 38.1



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.91 min Scan# 2010

Delta R.T. 0.03 min

Lab File: BF102101.D

Acq: 16 Jan 2018 11:33

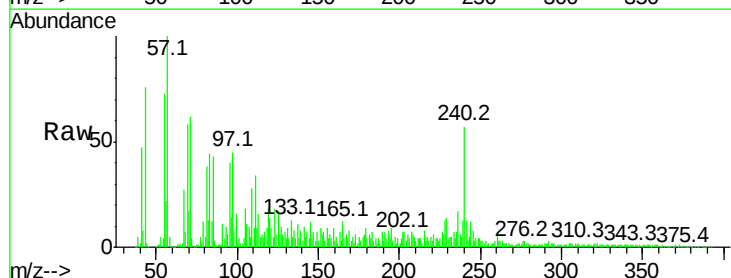
Tgt Ion:240 Resp: 164846

Ion Ratio Lower Upper

240 100

120 24.3 9.5 14.3#

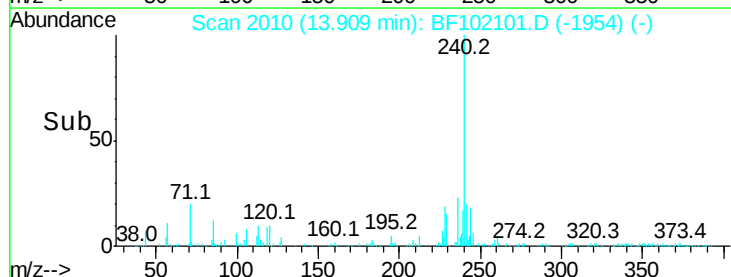
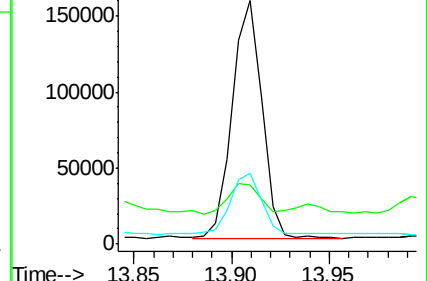
236 29.2 20.7 31.1

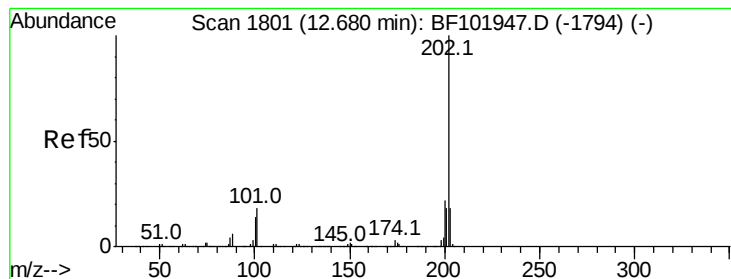


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 19.417 ng

RT: 12.72 min Scan# 1807

Delta R.T. 0.04 min

Lab File: BF102101.D

Acq: 16 Jan 2018 11:33

Instrument :

BNA\_F

ClientSampleId :

UST-1 14.5-15.0

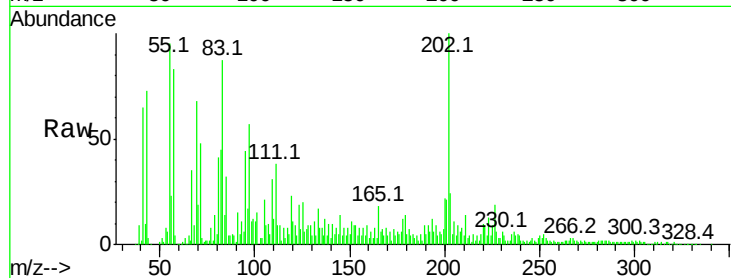
Tot Ion:202 Resp: 282933

Ion Ratio Lower Upper

202 100

200 21.9 17.4 26.2

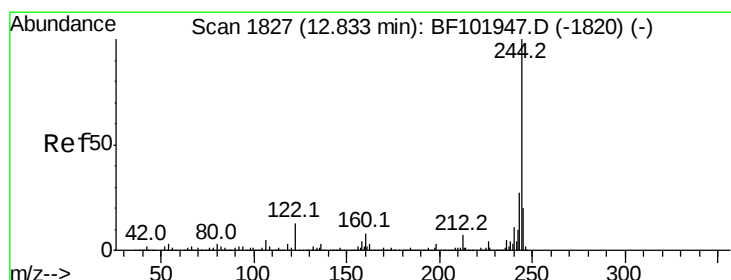
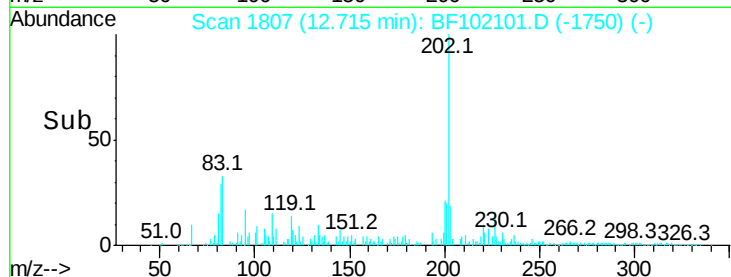
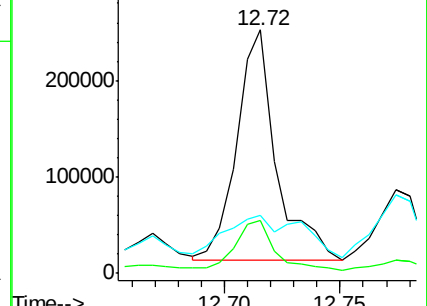
203 23.8 14.3 21.5#



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 58.106 ng

RT: 12.86 min Scan# 1831

Delta R.T. 0.02 min

Lab File: BF102101.D

Acq: 16 Jan 2018 11:33

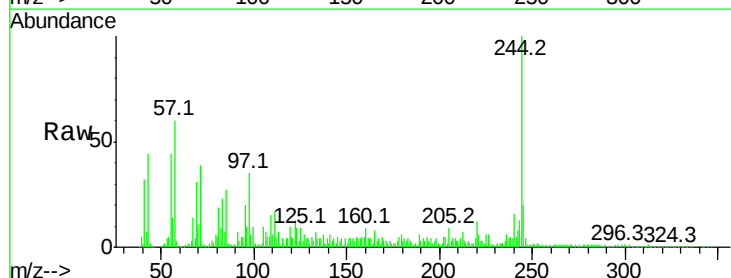
Tgt Ion:244 Resp: 461332

Ion Ratio Lower Upper

244 100

212 7.2 5.4 8.0

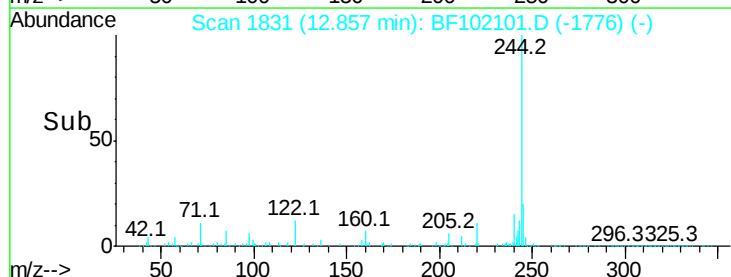
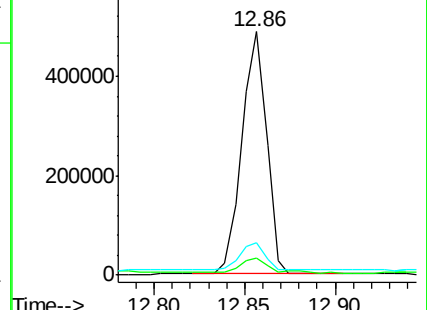
122 13.5 11.0 16.4

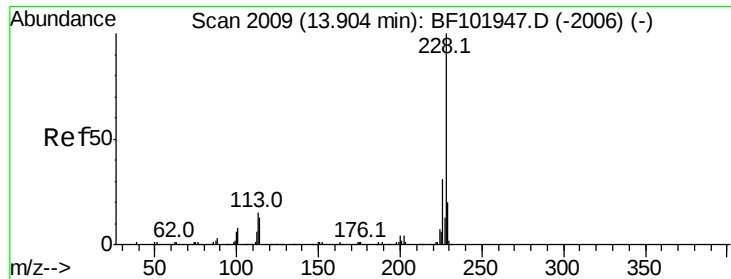


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#82

Chrysene

Concen: 11.959 ng

RT: 13.93 min Scan# 2014

Delta R.T. 0.03 min

Lab File: BF102101.D

Acq: 16 Jan 2018 11:33

Instrument :

BNA\_F

ClientSampleId :

UST-1 14.5-15.0

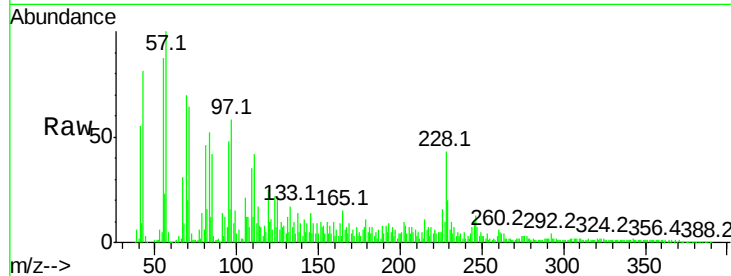
Tot Ion:228 Resp: 131159

Ion Ratio Lower Upper

228 100

226 36.4 25.0 37.6

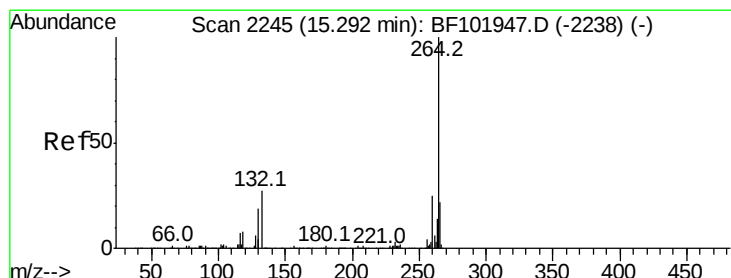
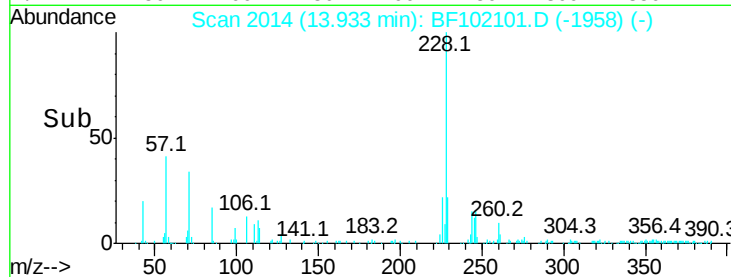
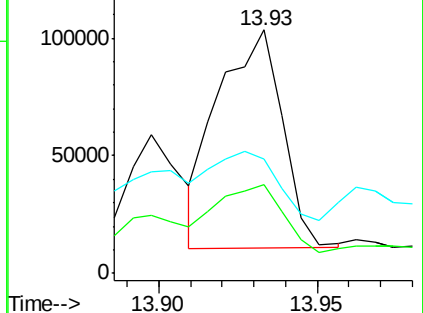
229 46.8 16.2 24.4#



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



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.34 min Scan# 2254

Delta R.T. 0.05 min

Lab File: BF102101.D

Acq: 16 Jan 2018 11:33

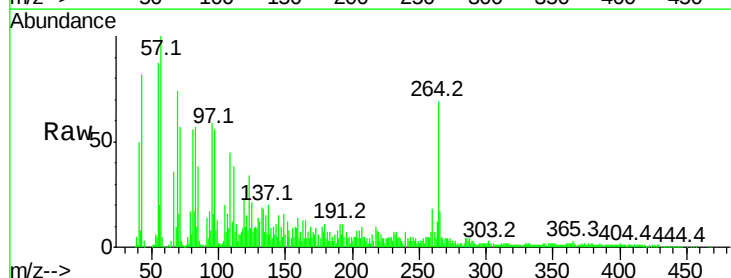
Tgt Ion:264 Resp: 151277

Ion Ratio Lower Upper

264 100

260 26.0 19.2 28.8

265 24.8 17.5 26.3



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

