

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF120216\  
 Data File : BF091409.D  
 Acq On : 3 Dec 2016 00:29  
 Operator : UM/SJ  
 Sample : H5825-01  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 S120116SF-S-1

Quant Time: Dec 03 02:43:37 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF112916.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Nov 29 13:33:46 2016  
 Response via : Initial Calibration

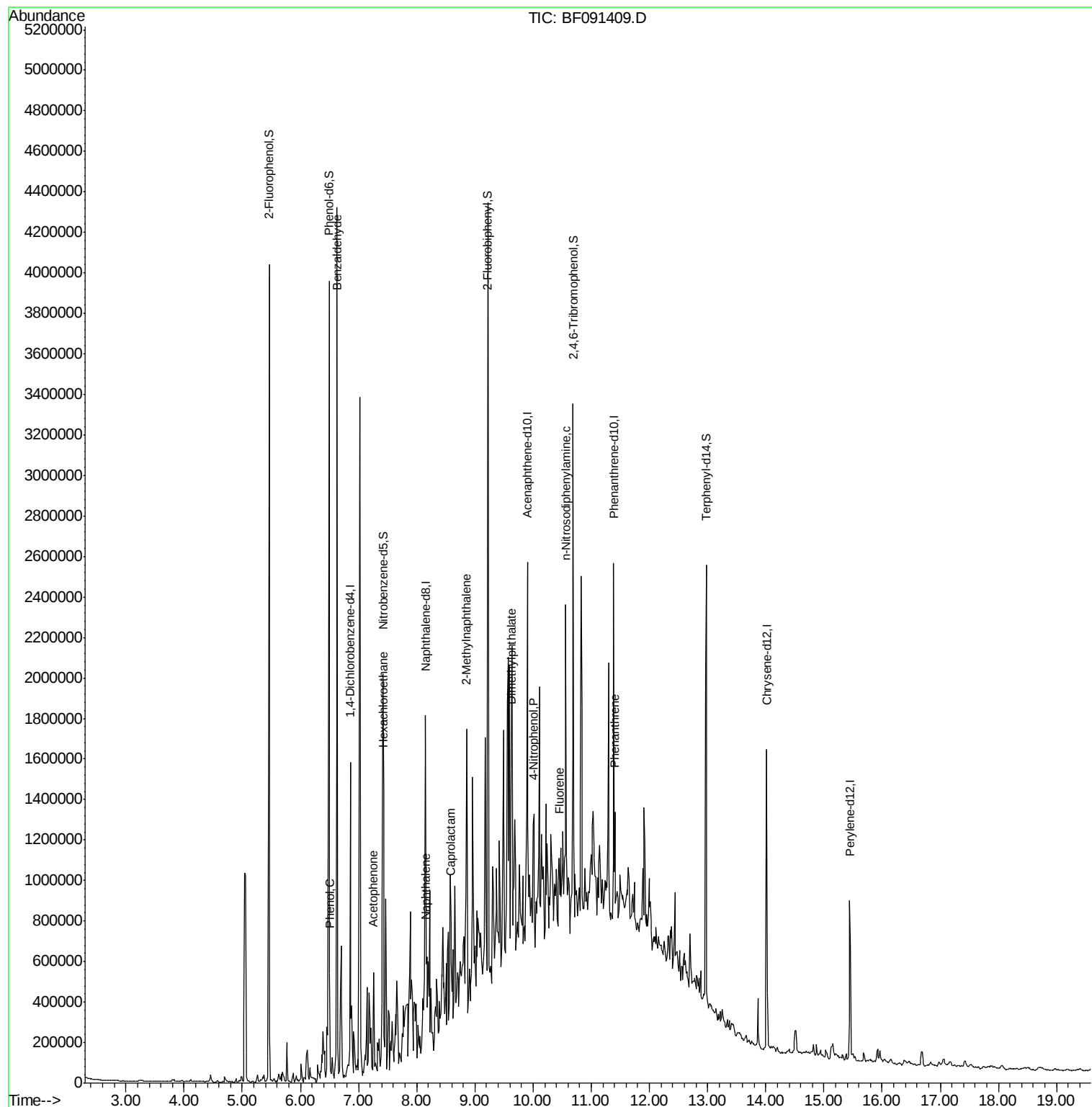
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.86  | 152  | 196068   | 20.00 | ng    | -0.02    |
| 21) Naphthalene-d8          | 8.15  | 136  | 795286   | 20.00 | ng    | -0.02    |
| 38) Acenaphthene-d10        | 9.90  | 164  | 386535   | 20.00 | ng    | -0.02    |
| 63) Phenanthrene-d10        | 11.38 | 188  | 614471   | 20.00 | ng    | -0.02    |
| 75) Chrysene-d12            | 14.01 | 240  | 507845   | 20.00 | ng    | -0.03    |
| 86) Perylene-d12            | 15.44 | 264  | 420354   | 20.00 | ng    | -0.03    |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.46  | 112  | 976561   | 81.37 | ng    | 0.00     |
| 7) Phenol-d6                | 6.49  | 99   | 1287286  | 87.13 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.42  | 82   | 778967   | 54.89 | ng    | -0.03    |
| 41) 2,4,6-Tribromophenol    | 10.69 | 330  | 281289   | 76.87 | ng    | -0.02    |
| 44) 2-Fluorobiphenyl        | 9.22  | 172  | 1128513  | 52.86 | ng    | -0.02    |
| 78) Terphenyl-d14           | 12.97 | 244  | 940407   | 40.25 | ng    | -0.02    |
| Target Compounds            |       |      |          |       |       | Qvalue   |
| 9) Benzaldehyde             | 6.63  | 77   | 28731    | 3.02  | ng    | 85       |
| 10) Phenol                  | 6.50  | 94   | 107493   | 6.18  | ng    | 84       |
| 18) Hexachloroethane        | 7.43  | 117  | 71765    | 13.88 | ng    | # 1      |
| 22) Acetophenone            | 7.26  | 105  | 51709    | 2.74  | ng    | # 51     |
| 31) Naphthalene             | 8.16  | 128  | 132470   | 3.50  | ng    | # 94     |
| 35) Caprolactam             | 8.58  | 113  | 20386    | 6.51  | ng    | # 53     |
| 37) 2-Methylnaphthalene     | 8.86  | 142  | 372272   | 14.50 | ng    | 93       |
| 49) Dimethylphthalate       | 9.62  | 163  | 286698   | 12.25 | ng    | # 98     |
| 55) 4-Nitrophenol           | 10.00 | 139  | 21711    | 4.96  | ng    | # 49     |
| 57) Fluorene                | 10.45 | 166  | 51197    | 2.27  | ng    | # 96     |
| 65) n-Nitrosodiphenylamine  | 10.56 | 169  | 110458   | 5.93  | ng    | # 56     |
| 70) Phenanthrene            | 11.41 | 178  | 170622   | 5.34  | ng    | # 95     |

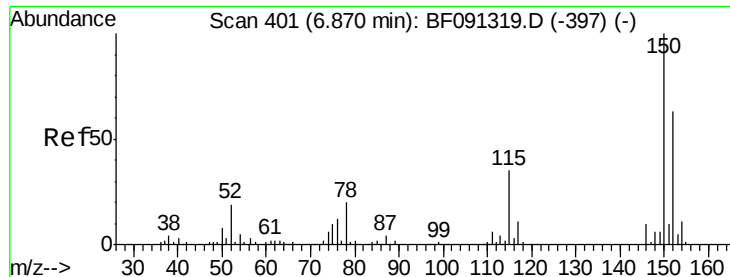
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF120216\  
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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF112916.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Nov 29 13:33:46 2016  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.86 min Scan# 400

Delta R.T. -0.02 min

Lab File: BF091409.D

Acq: 3 Dec 2016 00:29

Instrument :

BNA\_F

ClientSampleId :

S120116SF-S-1

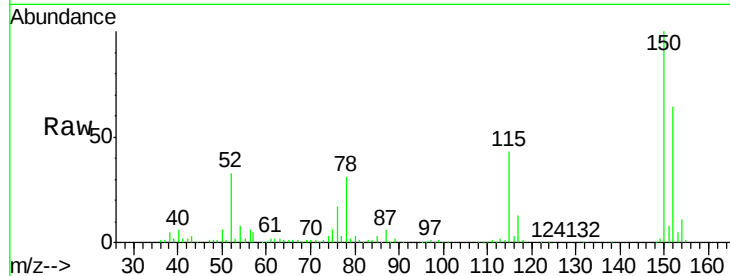
Tgt Ion:152 Resp: 196068

Ion Ratio Lower Upper

152 100

150 156.7 122.5 183.7

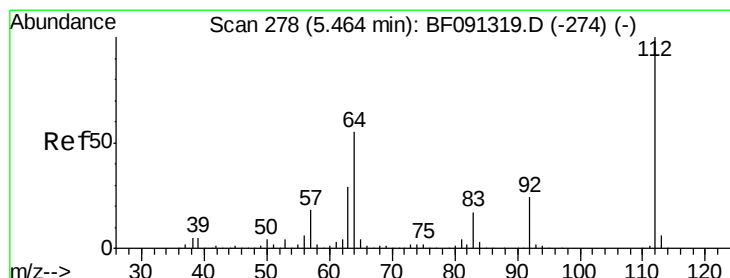
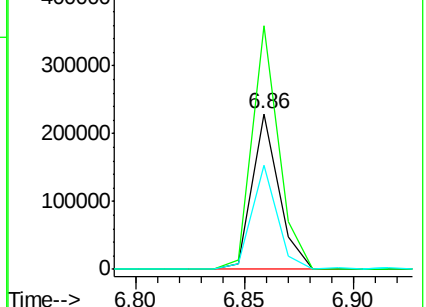
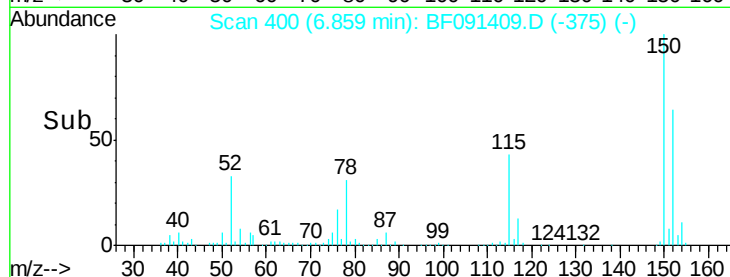
115 66.9 51.8 77.8



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: 81.37 ng

RT: 5.46 min Scan# 278

Delta R.T. -0.00 min

Lab File: BF091409.D

Acq: 3 Dec 2016 00:29

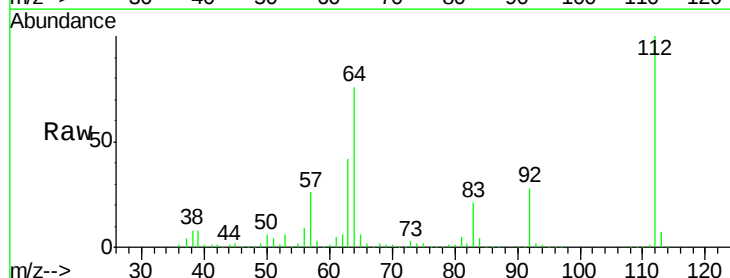
Tgt Ion:112 Resp: 976561

Ion Ratio Lower Upper

112 100

64 75.9 61.5 92.3

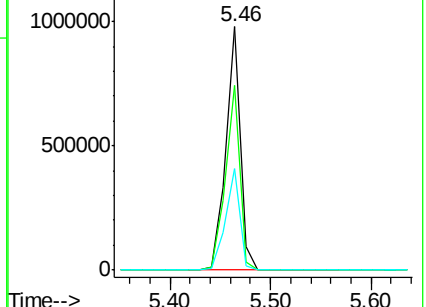
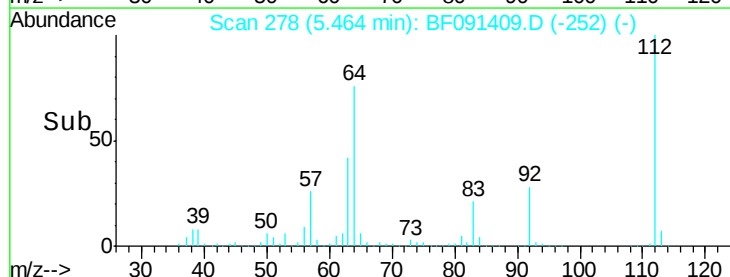
63 41.6 33.3 49.9

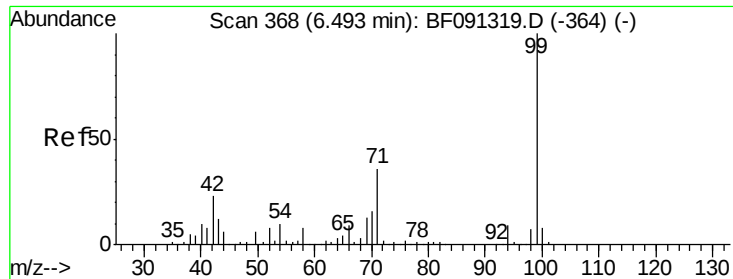


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 87.13 ng

RT: 6.49 min Scan# 368

Delta R.T. -0.01 min

Lab File: BF091409.D

Acq: 3 Dec 2016 00:29

Instrument :

BNA\_F

ClientSampleId :

S120116SF-S-1

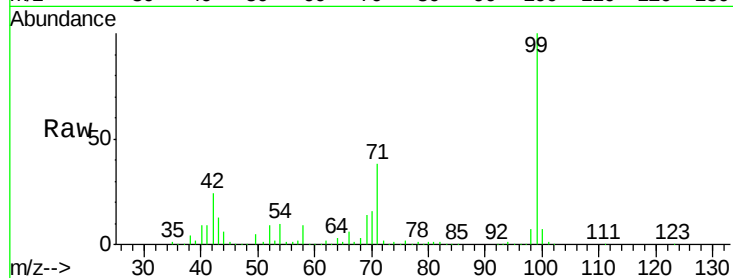
Tgt Ion: 99 Resp: 1287286

Ion Ratio Lower Upper

99 100

42 24.4 20.6 31.0

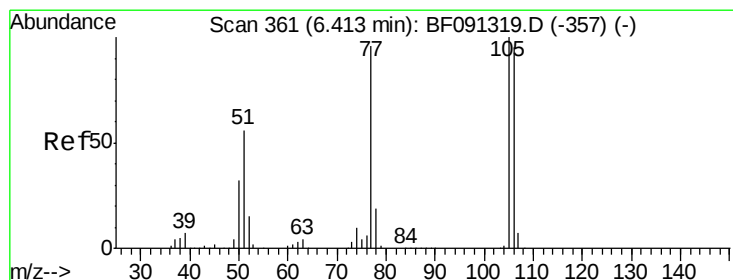
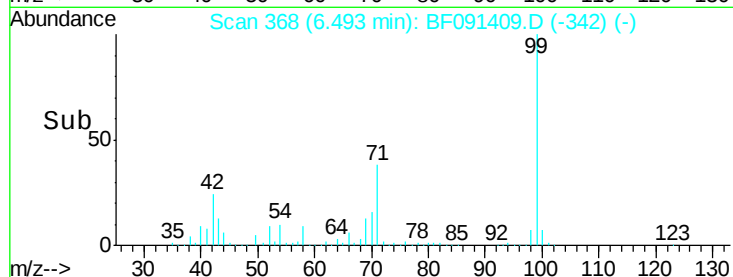
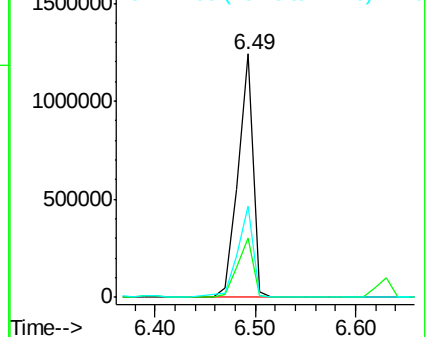
71 37.5 29.9 44.9



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#9

Benzaldehyde

Concen: 3.02 ng

RT: 6.63 min Scan# 380

Delta R.T. 0.21 min

Lab File: BF091409.D

Acq: 3 Dec 2016 00:29

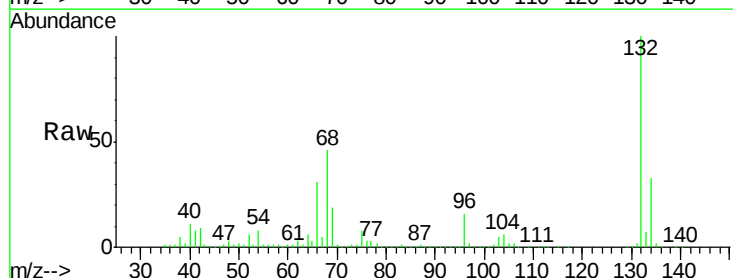
Tgt Ion: 77 Resp: 28731

Ion Ratio Lower Upper

77 100

105 72.1 66.4 106.4

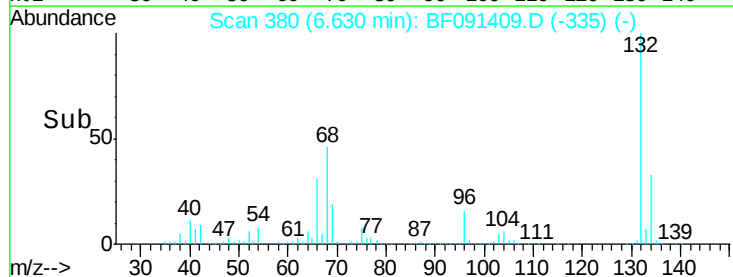
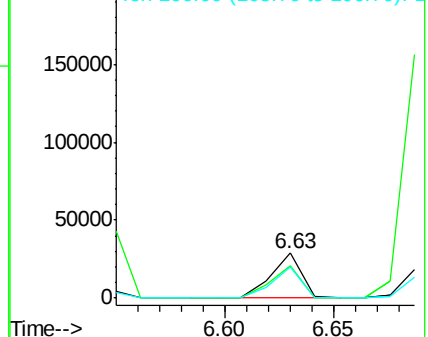
106 67.8 60.9 100.9

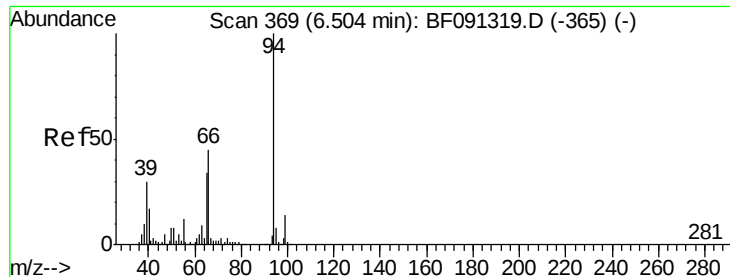


Abundance Ion 77.00 (76.70 to 77.70): BF0

Ion 105.00 (104.70 to 105.70): E

Ion 106.00 (105.70 to 106.70): E





#10

Phenol

Concen: 6.18 ng

RT: 6.50 min Scan# 369

Delta R.T. -0.02 min

Lab File: BF091409.D

Acq: 3 Dec 2016 00:29

Instrument :

BNA\_F

ClientSampleId :

S120116SF-S-1

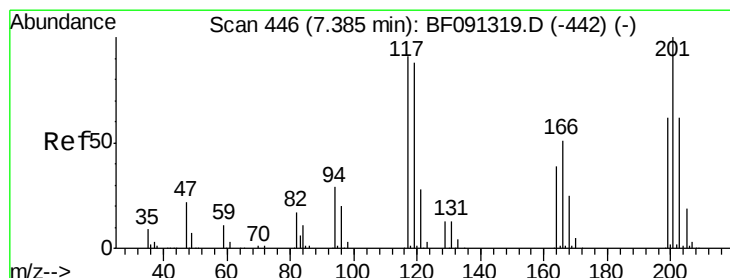
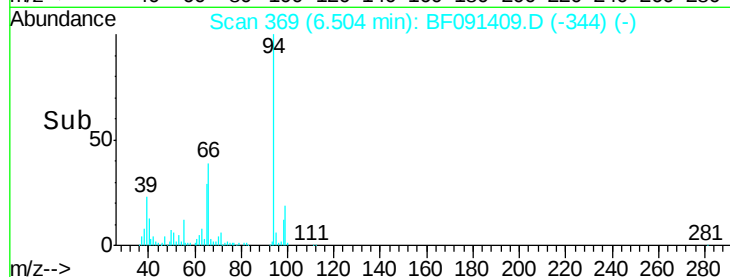
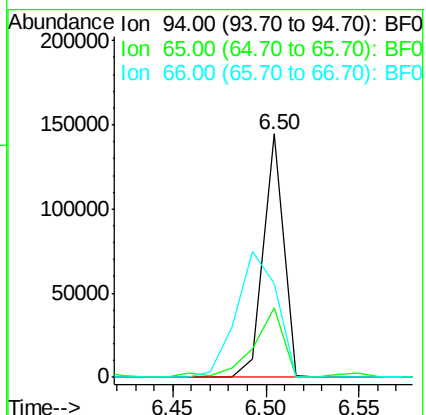
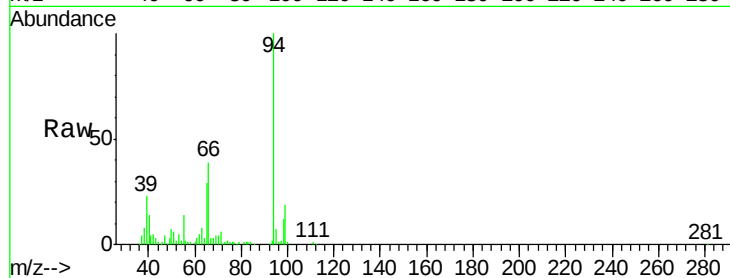
Tgt Ion: 94 Resp: 107493

Ion Ratio Lower Upper

94 100

65 28.5 16.9 56.9

66 38.7 30.6 70.6



#18

Hexachloroethane

Concen: 13.88 ng

RT: 7.43 min Scan# 450

Delta R.T. 0.03 min

Lab File: BF091409.D

Acq: 3 Dec 2016 00:29

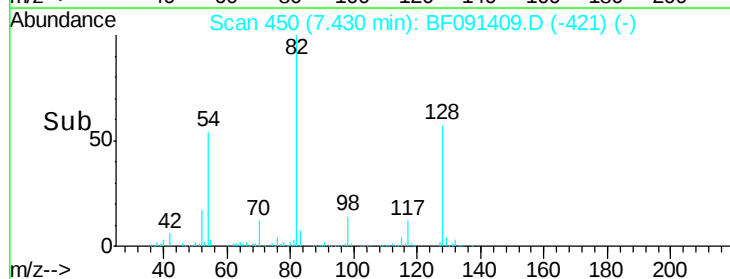
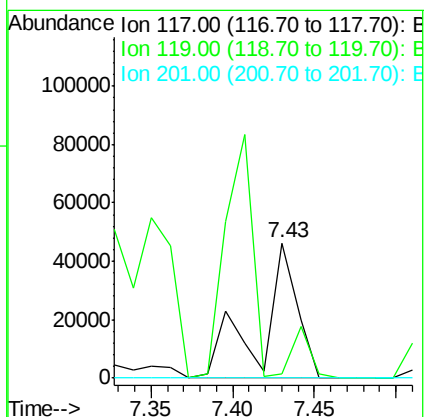
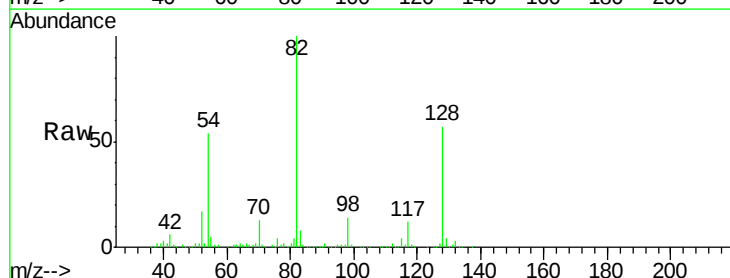
Tgt Ion: 117 Resp: 71765

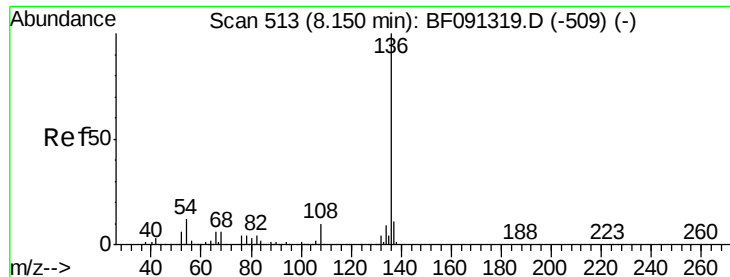
Ion Ratio Lower Upper

117 100

119 3.0 78.6 118.0#

201 0.0 86.7 130.1#

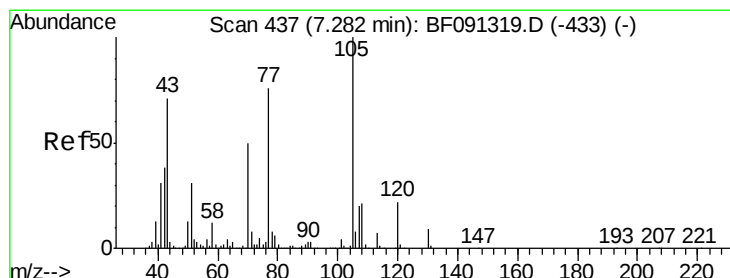
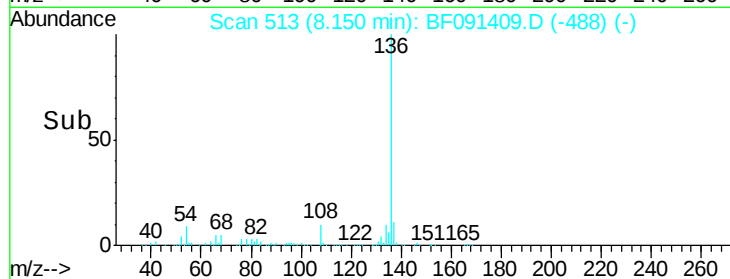
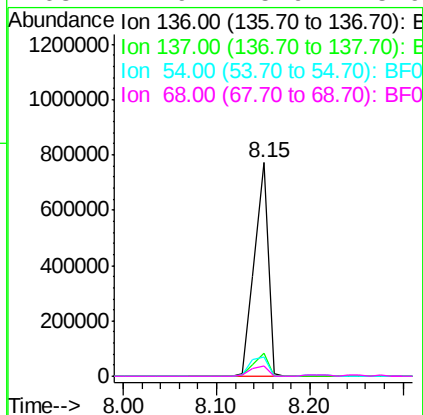
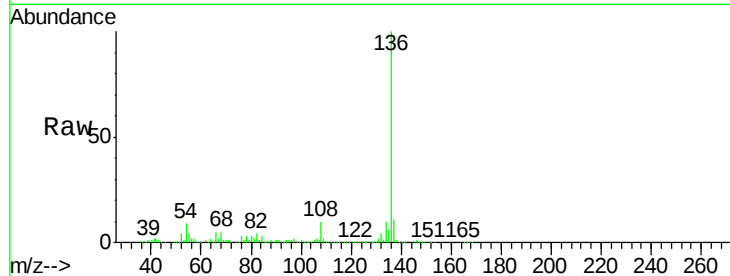




#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.15 min Scan# 513  
Delta R.T. -0.02 min  
Lab File: BF091409.D  
Acq: 3 Dec 2016 00:29

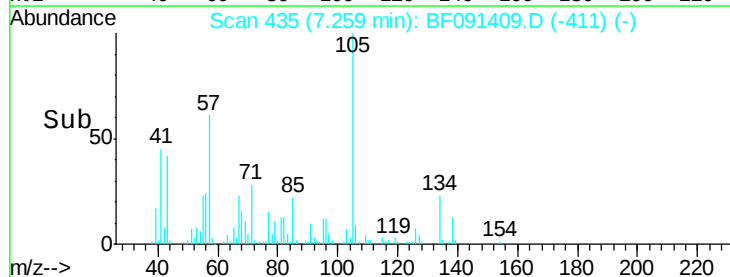
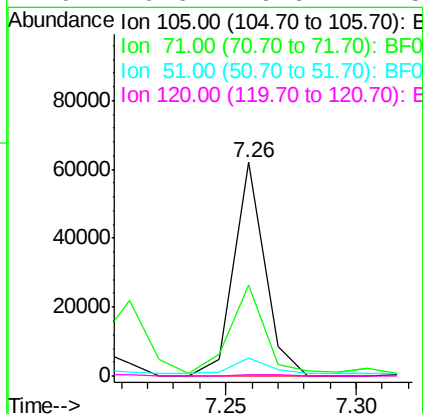
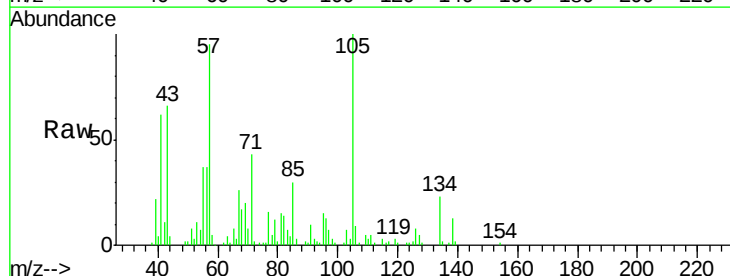
Instrument :  
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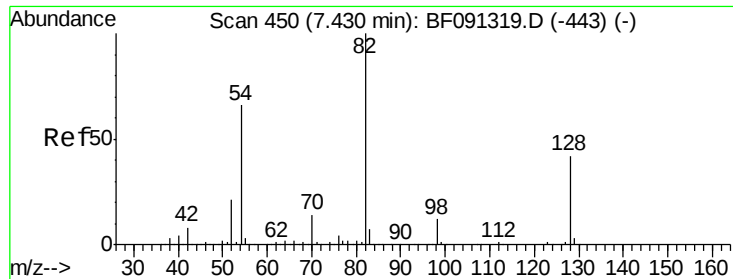
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 795286 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.0  | 9.1   | 13.7   |
| 54       | 9.1   | 9.1   | 13.7#  |
| 68       | 4.9   | 5.9   | 8.9#   |



#22  
Acetophenone  
Concen: 2.74 ng  
RT: 7.26 min Scan# 435  
Delta R.T. -0.03 min  
Lab File: BF091409.D  
Acq: 3 Dec 2016 00:29

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 105   | Resp: | 51709 |
| Ion      | Ratio | Lower | Upper |
| 105      | 100   |       |       |
| 71       | 42.8  | 7.9   | 11.9# |
| 51       | 8.4   | 24.5  | 36.7# |
| 120      | 0.6   | 16.6  | 24.8# |

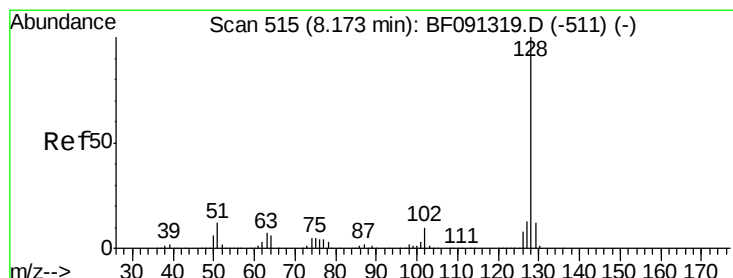
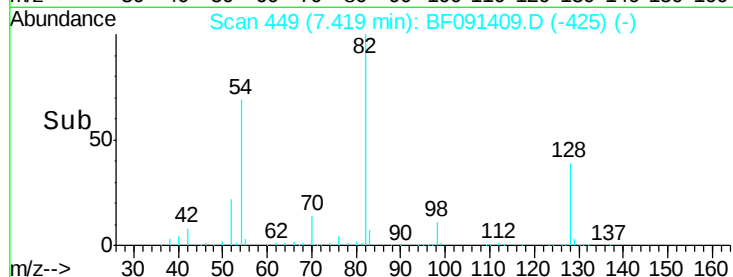
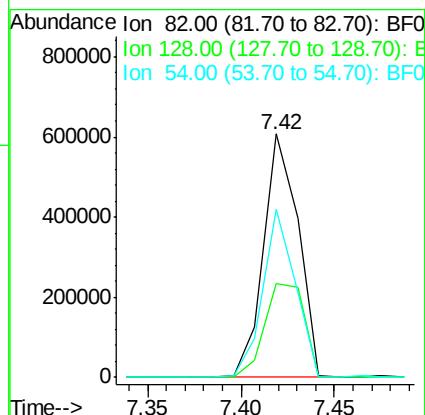
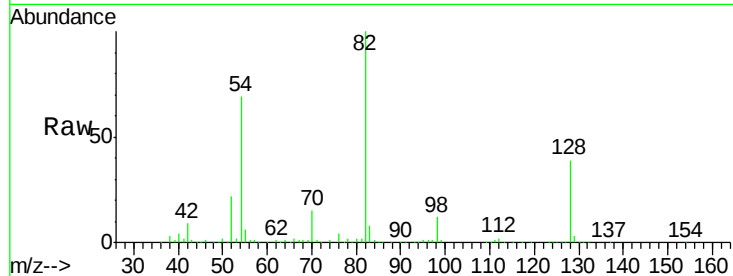




#23  
Nitrobenzene-d5  
Concen: 54.89 ng  
RT: 7.42 min Scan# 449  
Delta R.T. -0.03 min  
Lab File: BF091409.D  
Acq: 3 Dec 2016 00:29

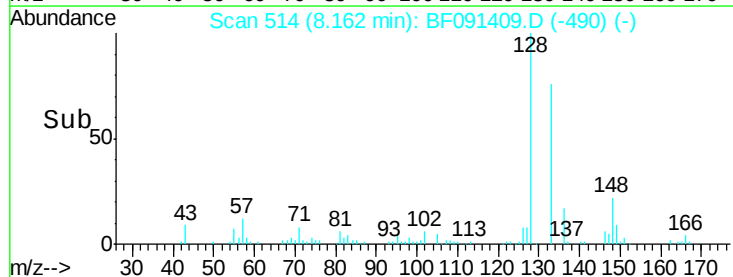
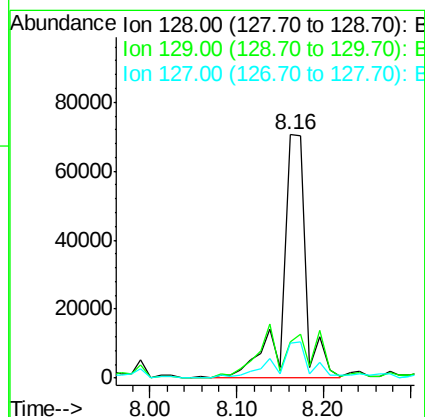
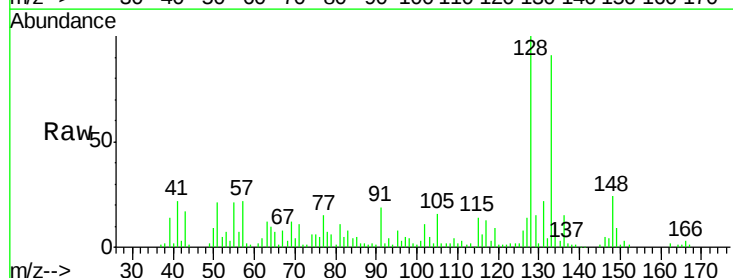
Instrument :  
BNA\_F  
ClientSampleId :  
S120116SF-S-1

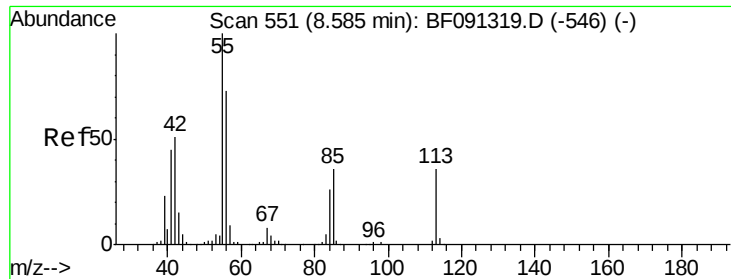
Tgt Ion: 82 Resp: 778967  
Ion Ratio Lower Upper  
82 100  
128 38.5 31.8 47.6  
54 69.1 49.1 73.7



#31  
Naphthalene  
Concen: 3.50 ng  
RT: 8.16 min Scan# 514  
Delta R.T. -0.03 min  
Lab File: BF091409.D  
Acq: 3 Dec 2016 00:29

Tgt Ion: 128 Resp: 132470  
Ion Ratio Lower Upper  
128 100  
129 15.2 9.1 13.7#  
127 14.5 11.0 16.4

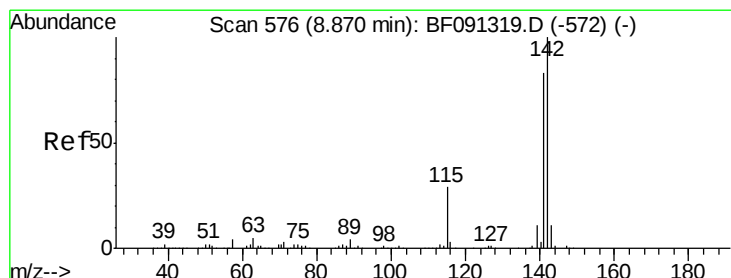
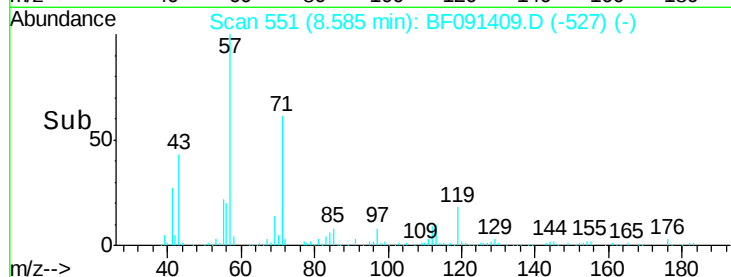
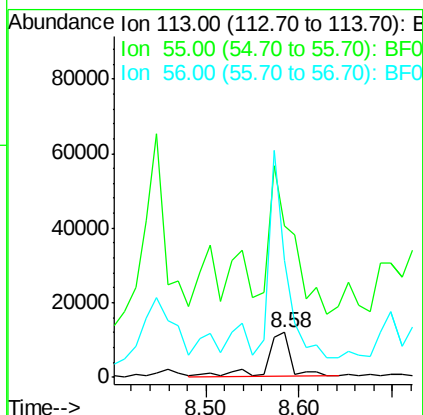
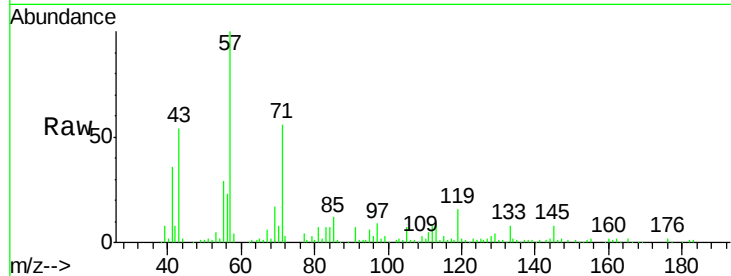




#35  
 Caprolactam  
 Concen: 6.51 ng  
 RT: 8.58 min Scan# 551  
 Delta R.T. -0.03 min  
 Lab File: BF091409.D  
 Acq: 3 Dec 2016 00:29

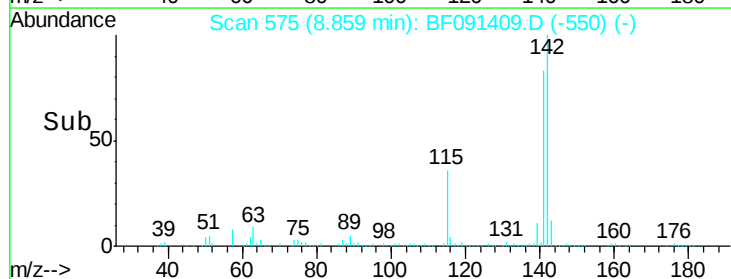
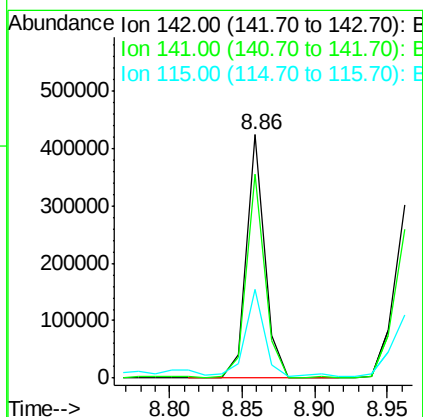
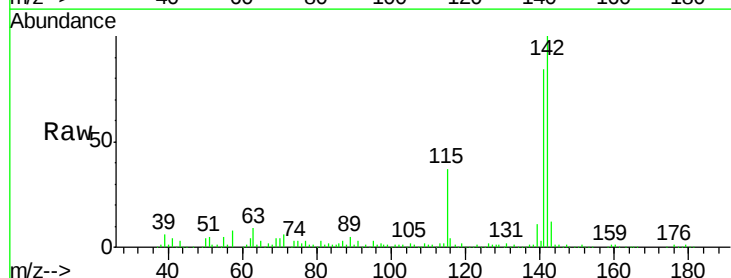
Instrument :  
 BNA\_F  
 ClientSampleId :  
 S120116SF-S-1

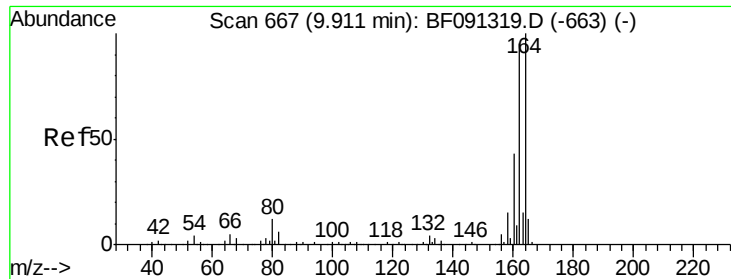
Tgt Ion:113 Resp: 20386  
 Ion Ratio Lower Upper  
 113 100  
 55 338.1 239.8 279.8#  
 56 259.3 165.6 205.6#



#37  
 2-Methylnaphthalene  
 Concen: 14.50 ng  
 RT: 8.86 min Scan# 575  
 Delta R.T. -0.02 min  
 Lab File: BF091409.D  
 Acq: 3 Dec 2016 00:29

Tgt Ion:142 Resp: 372272  
 Ion Ratio Lower Upper  
 142 100  
 141 83.7 71.7 107.5  
 115 36.6 25.0 37.6

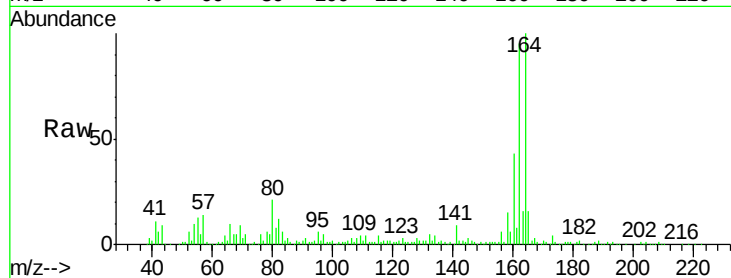




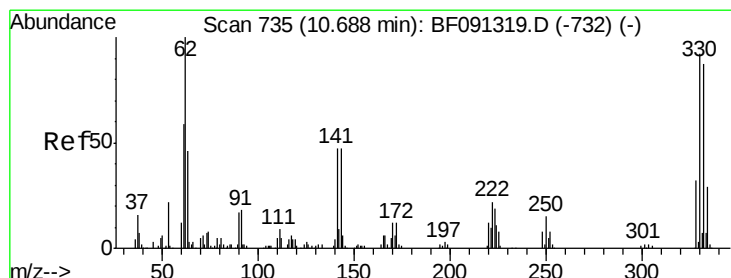
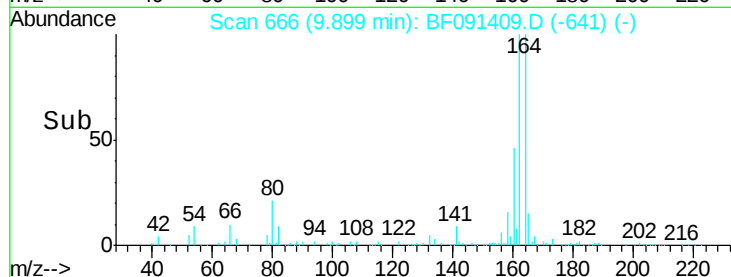
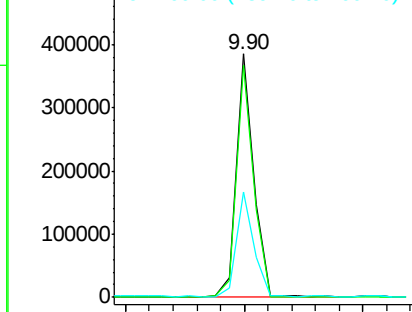
#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.90 min Scan# 666  
Delta R.T. -0.02 min  
Lab File: BF091409.D  
Acq: 3 Dec 2016 00:29

Instrument :  
BNA\_F  
ClientSampleId :  
S120116SF-S-1

Tgt Ion:164 Resp: 386535  
Ion Ratio Lower Upper  
164 100  
162 95.2 82.6 124.0  
160 43.4 36.7 55.1

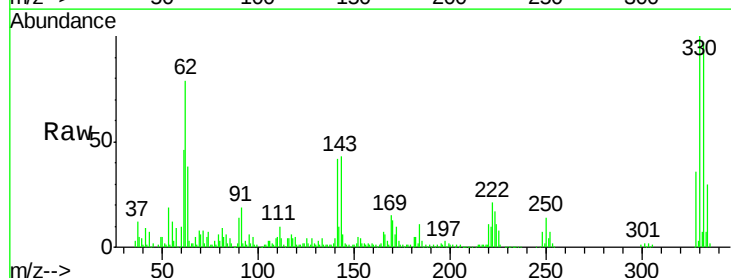


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

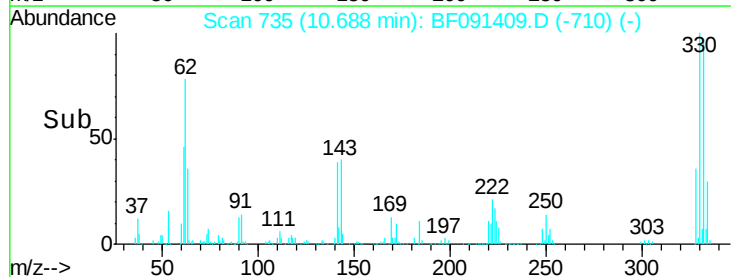
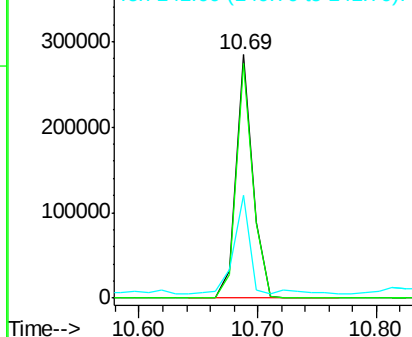


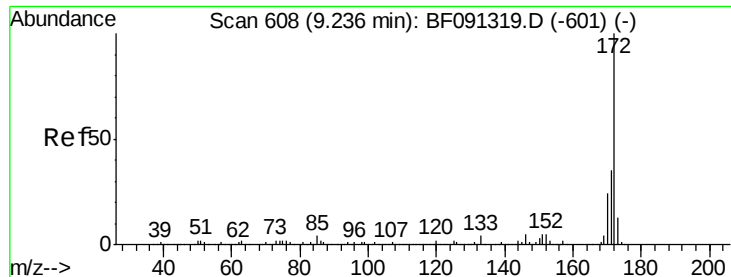
#41  
2,4,6-Tribromophenol  
Concen: 76.87 ng  
RT: 10.69 min Scan# 735  
Delta R.T. -0.02 min  
Lab File: BF091409.D  
Acq: 3 Dec 2016 00:29

Tgt Ion:330 Resp: 281289  
Ion Ratio Lower Upper  
330 100  
332 96.2 76.2 114.4  
141 37.1 33.6 50.4



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: 52.86 ng

RT: 9.22 min Scan# 607

Delta R.T. -0.02 min

Lab File: BF091409.D

Acq: 3 Dec 2016 00:29

Instrument :

BNA\_F

ClientSampleId :

S120116SF-S-1

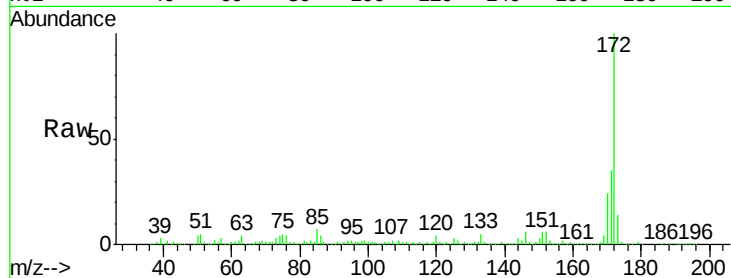
Tgt Ion:172 Resp: 1128513

Ion Ratio Lower Upper

172 100

171 35.4 29.4 44.0

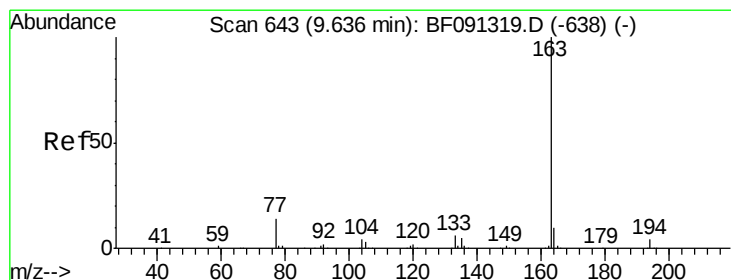
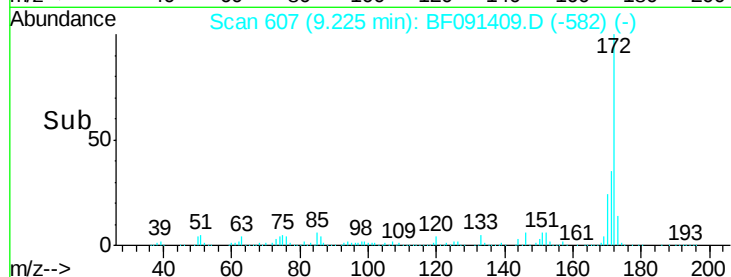
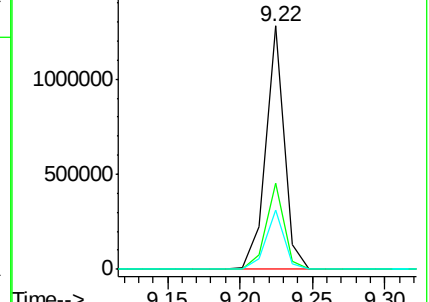
170 24.3 19.7 29.5



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



#49

Dimethylphthalate

Concen: 12.25 ng

RT: 9.62 min Scan# 642

Delta R.T. -0.03 min

Lab File: BF091409.D

Acq: 3 Dec 2016 00:29

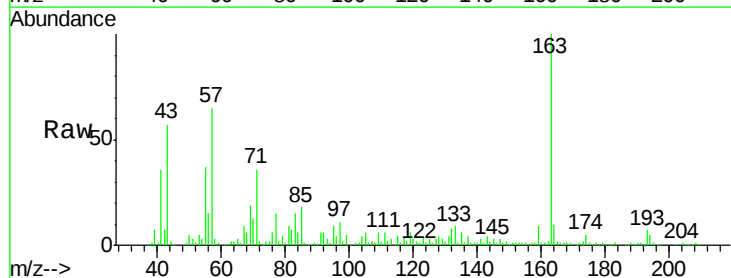
Tgt Ion:163 Resp: 286698

Ion Ratio Lower Upper

163 100

194 5.5 3.0 4.4#

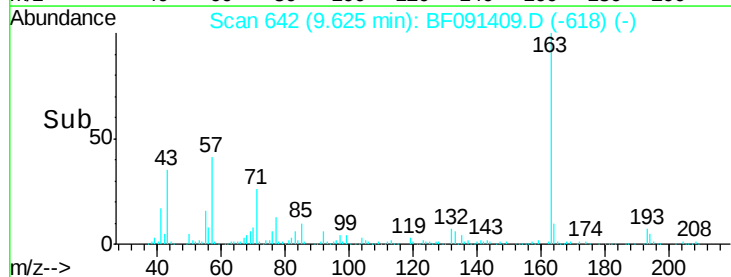
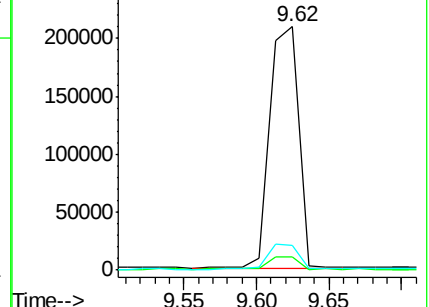
164 10.0 7.8 11.8

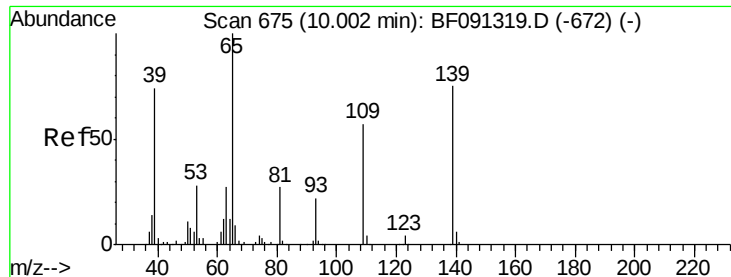


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E

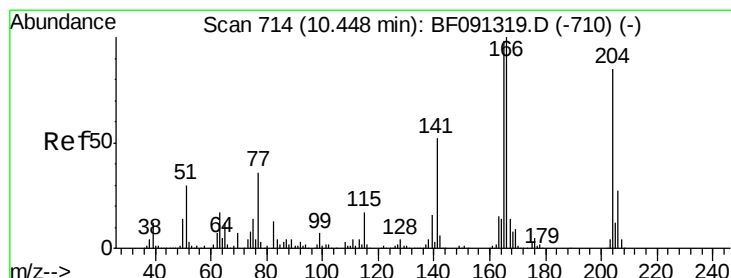
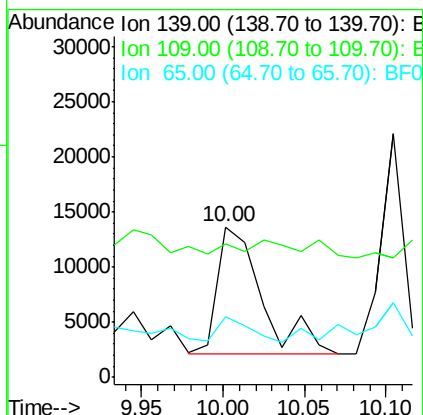
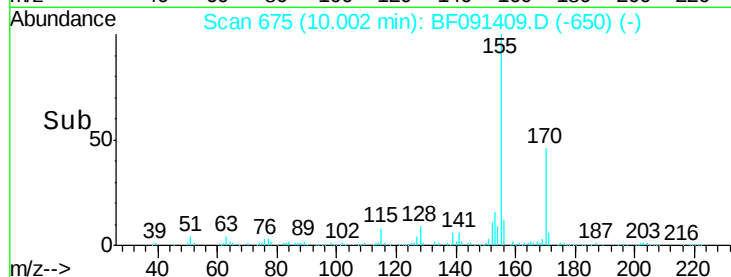
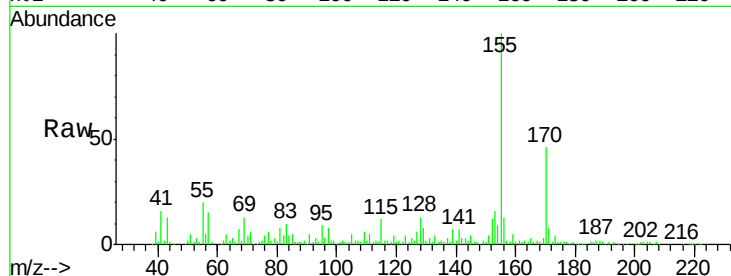




#55  
4-Nitrophenol  
Concen: 4.96 ng  
RT: 10.00 min Scan# 675  
Delta R.T. -0.02 min  
Lab File: BF091409.D  
Acq: 3 Dec 2016 00:29

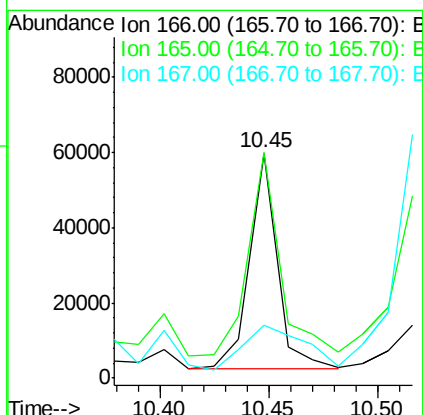
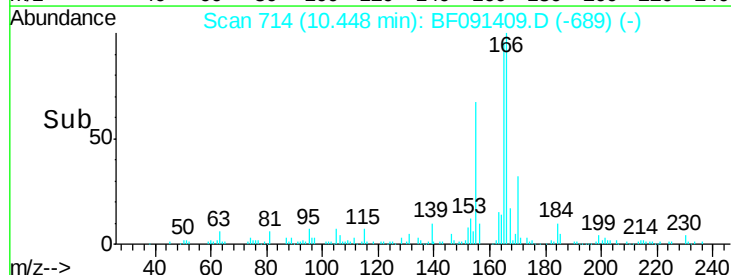
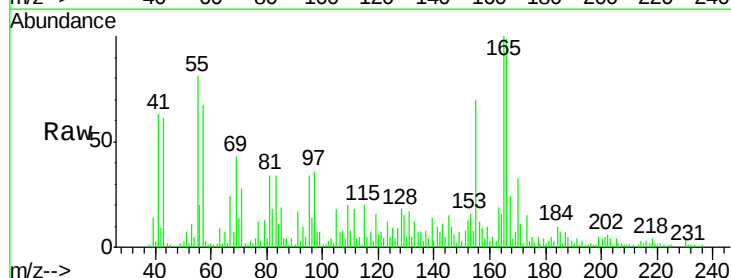
Instrument :  
BNA\_F  
ClientSampleId :  
S120116SF-S-1

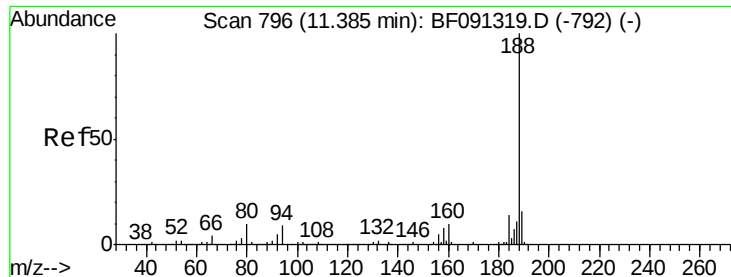
Tgt Ion:139 Resp: 21711  
Ion Ratio Lower Upper  
139 100  
109 89.1 54.9 94.9  
65 40.5 102.2 142.2#



#57  
Fluorene  
Concen: 2.27 ng  
RT: 10.45 min Scan# 714  
Delta R.T. -0.02 min  
Lab File: BF091409.D  
Acq: 3 Dec 2016 00:29

Tgt Ion:166 Resp: 51197  
Ion Ratio Lower Upper  
166 100  
165 100.6 80.0 120.0  
167 23.8 10.8 16.2#

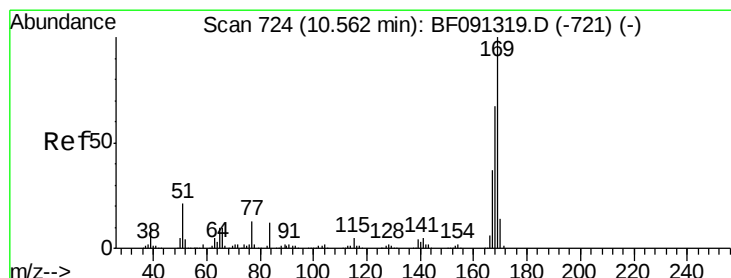
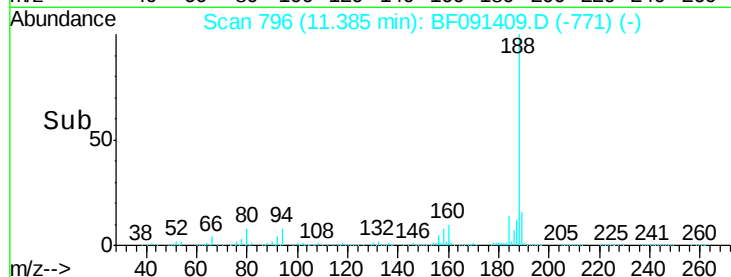
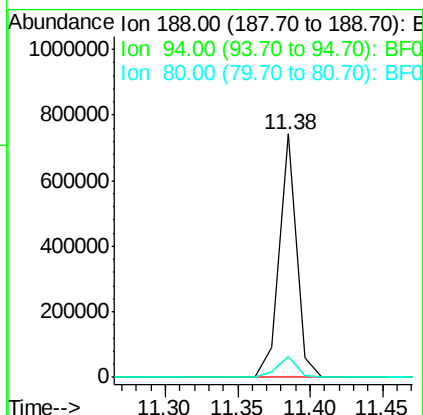
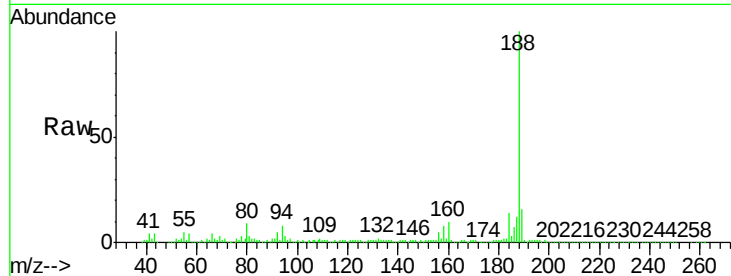




#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.38 min Scan# 796  
Delta R.T. -0.02 min  
Lab File: BF091409.D  
Acq: 3 Dec 2016 00:29

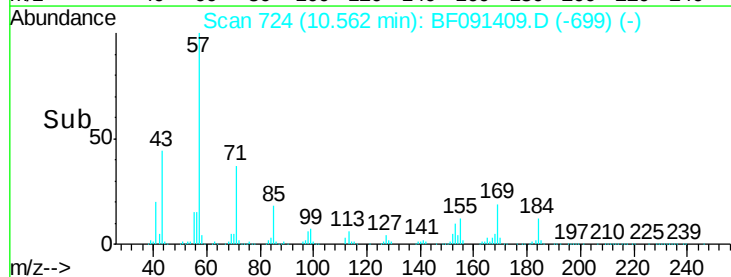
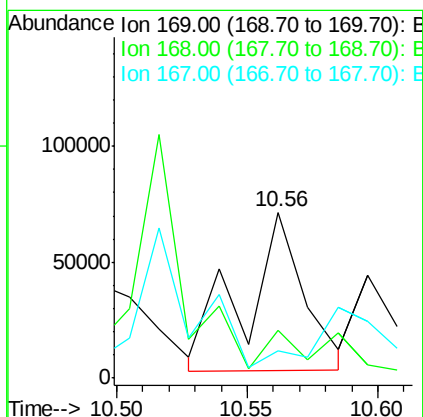
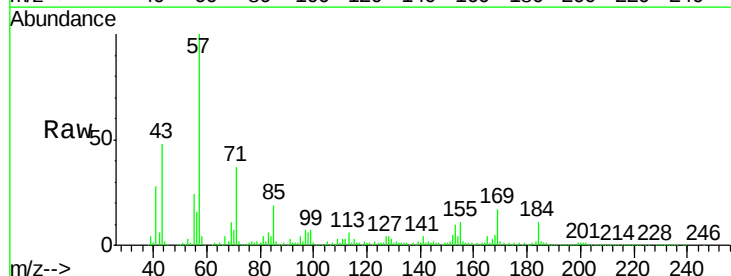
Instrument :  
BNA\_F  
ClientSampleId :  
S120116SF-S-1

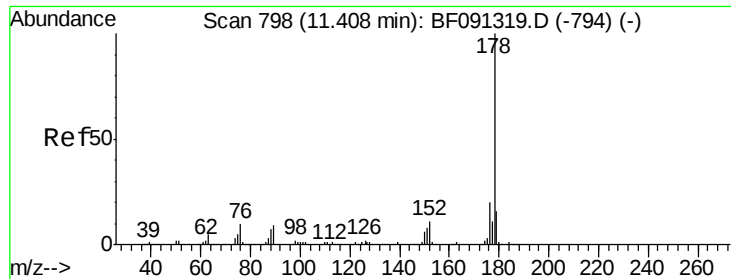
Tgt Ion:188 Resp: 614471  
Ion Ratio Lower Upper  
188 100  
94 8.5 9.2 13.8#  
80 8.7 10.5 15.7#



#65  
n-Nitrosodiphenylamine  
Concen: 5.93 ng  
RT: 10.56 min Scan# 724  
Delta R.T. -0.02 min  
Lab File: BF091409.D  
Acq: 3 Dec 2016 00:29

Tgt Ion:169 Resp: 110458  
Ion Ratio Lower Upper  
169 100  
168 28.4 53.8 80.8#  
167 16.1 29.8 44.8#

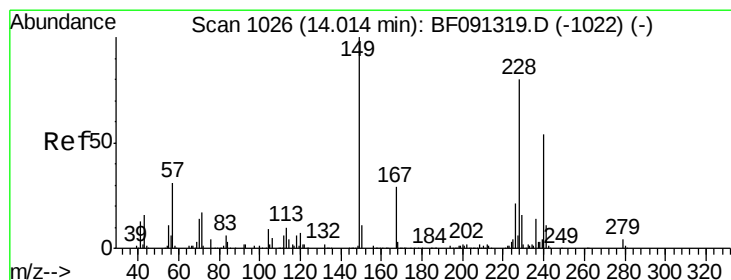
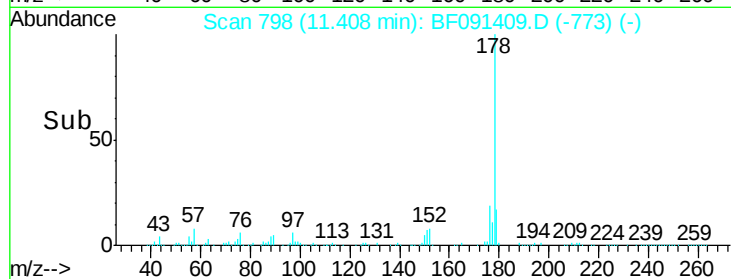
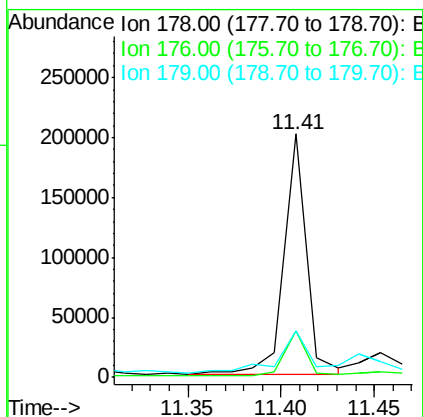
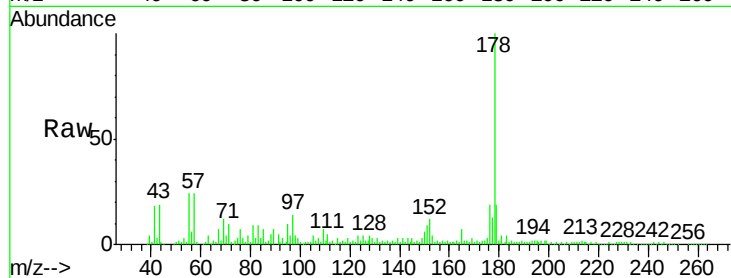




#70  
Phenanthrene  
Concen: 5.34 ng  
RT: 11.41 min Scan# 798  
Delta R.T. -0.02 min  
Lab File: BF091409.D  
Acq: 3 Dec 2016 00:29

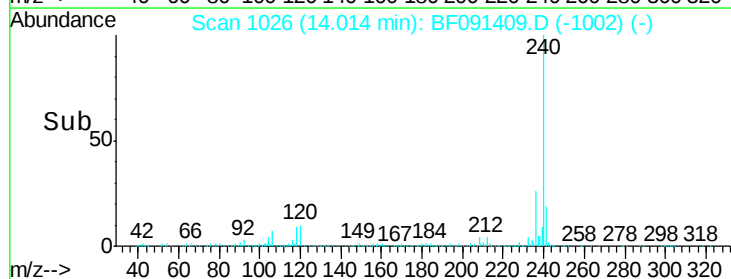
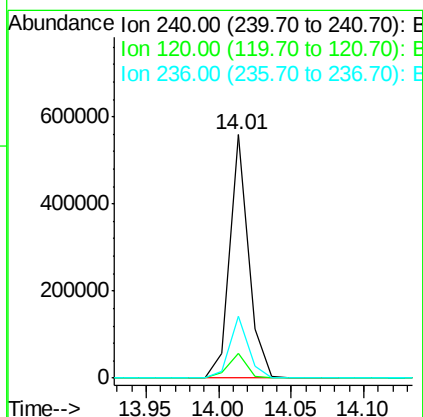
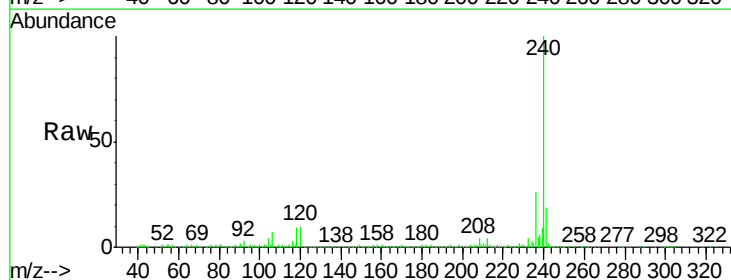
Instrument :  
BNA\_F  
ClientSampleId :  
S120116SF-S-1

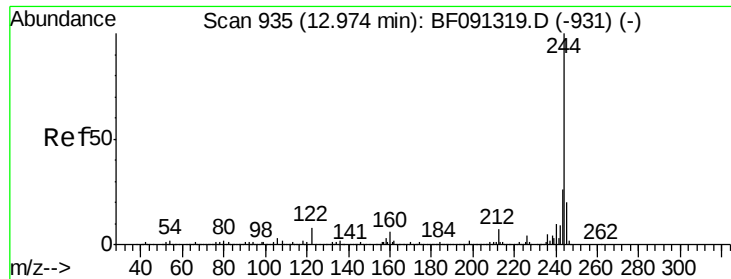
Tgt Ion:178 Resp: 170622  
Ion Ratio Lower Upper  
178 100  
176 19.1 15.9 23.9  
179 19.1 12.6 18.8#



#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 14.01 min Scan# 1026  
Delta R.T. -0.03 min  
Lab File: BF091409.D  
Acq: 3 Dec 2016 00:29

Tgt Ion:240 Resp: 507845  
Ion Ratio Lower Upper  
240 100  
120 9.9 12.1 18.1#  
236 25.6 21.0 31.6

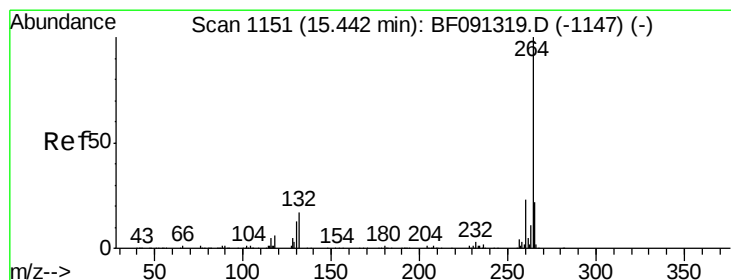
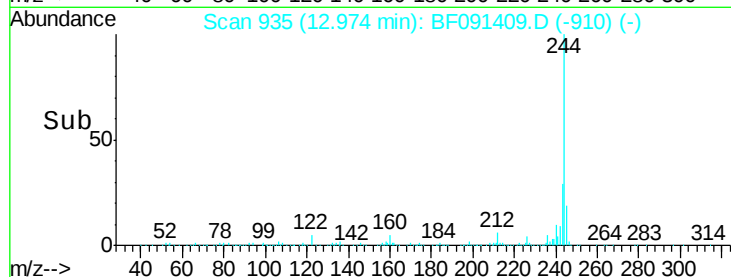
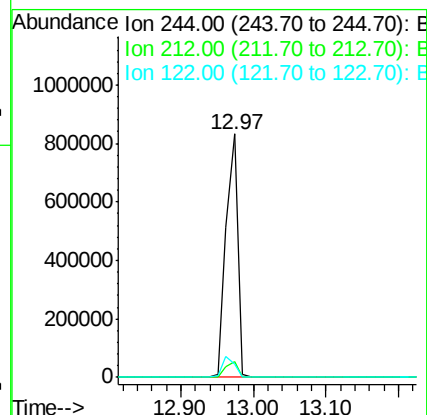
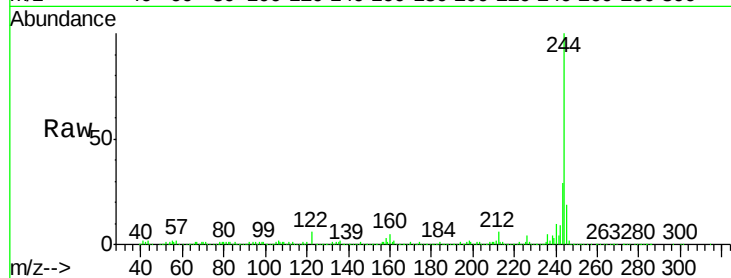




#78  
 Terphenyl-d14  
 Concen: 40.25 ng  
 RT: 12.97 min Scan# 935  
 Delta R.T. -0.02 min  
 Lab File: BF091409.D  
 Acq: 3 Dec 2016 00:29

Instrument :  
 BNA\_F  
 ClientSampleId :  
 S120116SF-S-1

Tgt Ion:244 Resp: 940407  
 Ion Ratio Lower Upper  
 244 100  
 212 6.3 6.5 9.7#  
 122 5.5 9.5 14.3#



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 15.44 min Scan# 1151  
 Delta R.T. -0.03 min  
 Lab File: BF091409.D  
 Acq: 3 Dec 2016 00:29

Tgt Ion:264 Resp: 420354  
 Ion Ratio Lower Upper  
 264 100  
 260 23.7 18.8 28.2  
 265 21.8 17.0 25.6

