

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF063017\  
 Data File : BF096331.D  
 Acq On : 30 Jun 2017 12:23  
 Operator : SJ/MA  
 Sample : I3883-08 10X  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 G42-1.5-3

Quant Time: Jun 30 17:42:11 2017  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF062717.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jun 28 15:41:49 2017  
 Response via : Initial Calibration

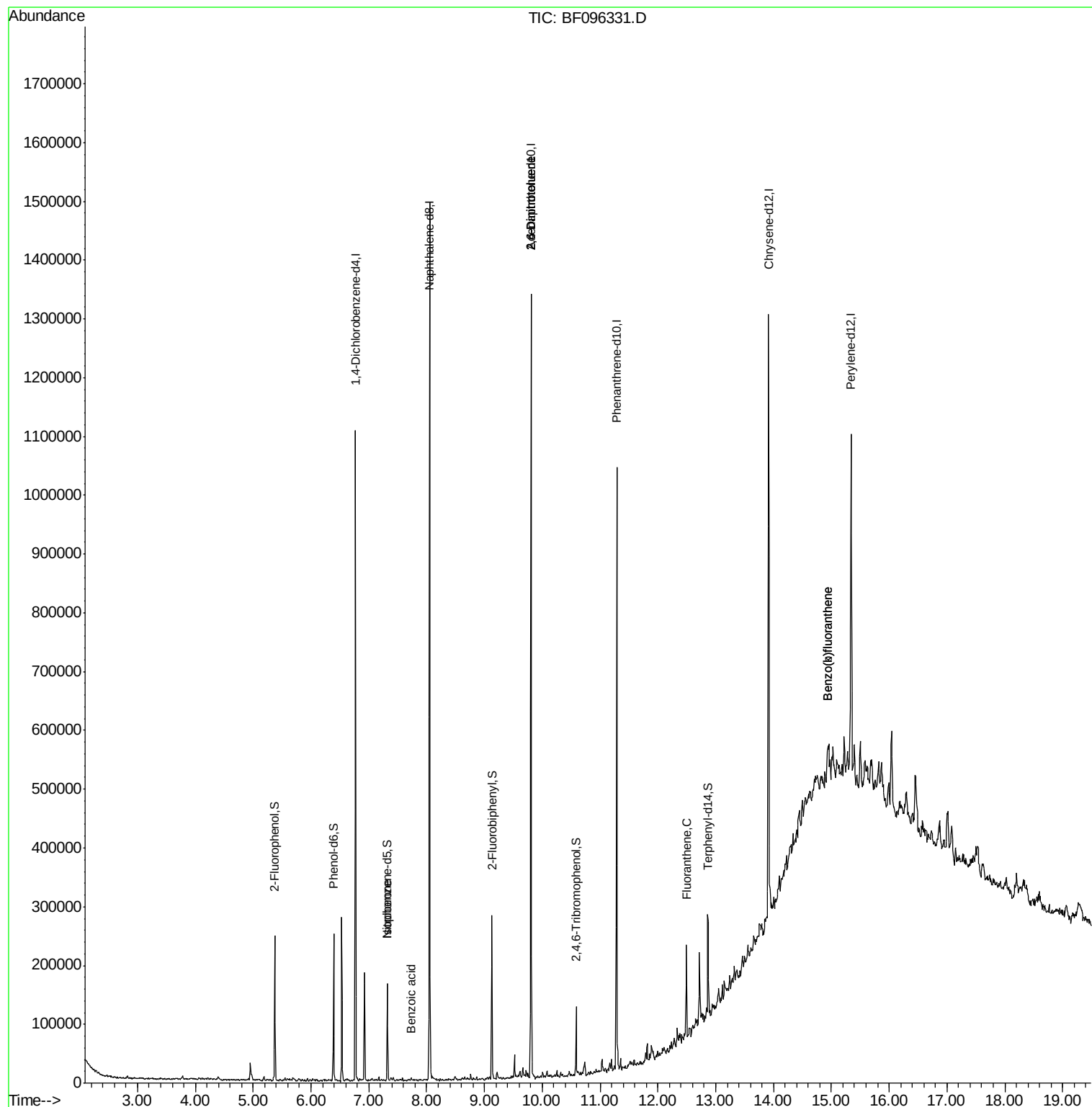
| Internal Standards          | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.77  | 152  | 149086   | 20.00     | ng    | -0.01    |
| 21) Naphthalene-d8          | 8.05  | 136  | 609067   | 20.00     | ng    | 0.00     |
| 38) Acenaphthene-d10        | 9.80  | 164  | 242287   | 20.00     | ng    | 0.00     |
| 63) Phenanthrene-d10        | 11.29 | 188  | 341467   | 20.00     | ng    | 0.00     |
| 75) Chrysene-d12            | 13.92 | 240  | 317697   | 20.00     | ng    | 0.00     |
| 86) Perylene-d12            | 15.34 | 264  | 266160   | 20.00     | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |           |       |          |
| 5) 2-Fluorophenol           | 5.37  | 112  | 61782    | 5.97      | ng    | 0.00     |
| 7) Phenol-d6                | 6.39  | 99   | 76331    | 6.09      | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.32  | 82   | 40545    | 4.61      | ng    | -0.04    |
| 41) 2,4,6-Tribromophenol    | 10.59 | 330  | 12436    | 6.52      | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.13  | 172  | 78426    | 5.93      | ng    | -0.02    |
| 78) Terphenyl-d14           | 12.86 | 244  | 48456    | 3.81      | ng    | 0.00     |
| Target Compounds            |       |      |          |           |       |          |
| 9) Benzaldehyde             | 6.31  | 77   | 120      | Below Cal | #     | 1        |
| 25) Isophorone              | 7.32  | 82   | 40544    | 2.029 ng  | #     | 67       |
| 32) Benzoic acid            | 7.73  | 122  | 745      | 8.881 ng  | #     | 31       |
| 50) 2,6-Dinitrotoluene      | 9.80  | 165  | 30734    | 8.521 ng  | #     | 34       |
| 56) 2,4-Dinitrotoluene      | 9.80  | 165  | 30734    | 6.761 ng  | #     | 33       |
| 57) Fluorene                | 10.35 | 166  | 955      | Below Cal | #     | 94       |
| 70) Phenanthrene            | 11.31 | 178  | 12284    | Below Cal |       | 96       |
| 74) Fluoranthene            | 12.49 | 202  | 50586    | 2.667 ng  |       | 96       |
| 87) Benzo(b)fluoranthene    | 14.93 | 252  | 47389    | 2.710 ng  | #     | 77       |
| 88) Benzo(k)fluoranthene    | 14.93 | 252  | 47389    | 2.969 ng  | #     | 81       |

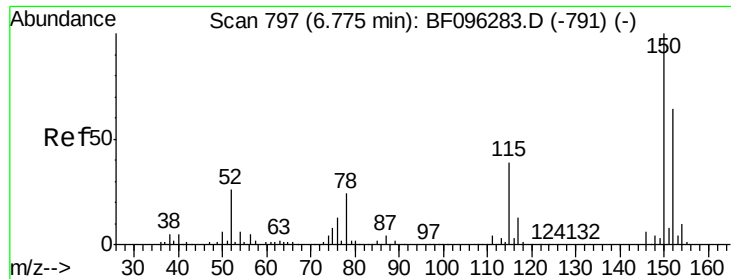
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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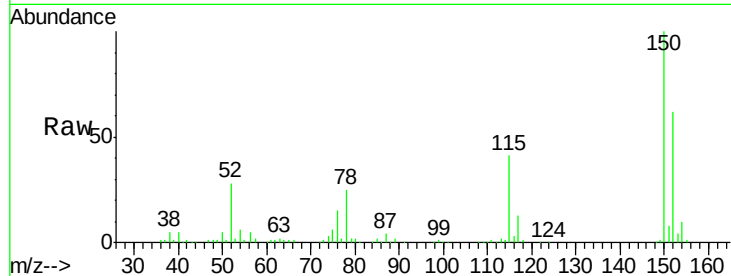


#1

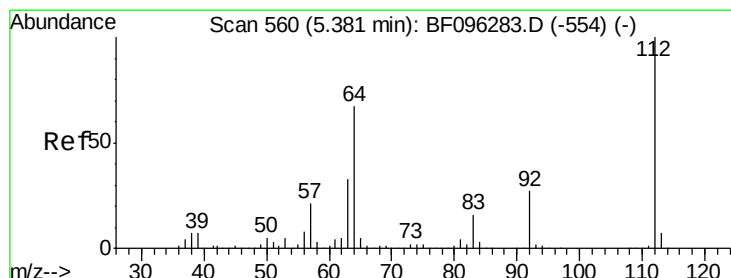
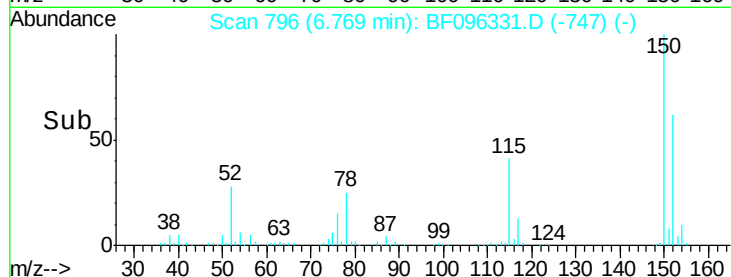
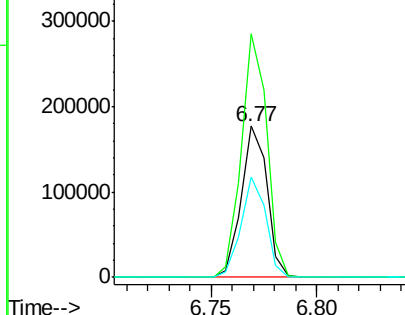
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.77 min Scan# 796  
Delta R.T. -0.01 min  
Lab File: BF096331.D  
Acq: 30 Jun 2017 12:23

Instrument :  
BNA\_F  
ClientSampleId :  
G42-1.5-3

Tgt Ion:152 Resp: 149086  
Ion Ratio Lower Upper  
152 100  
150 160.8 126.2 189.2  
115 66.5 52.2 78.2



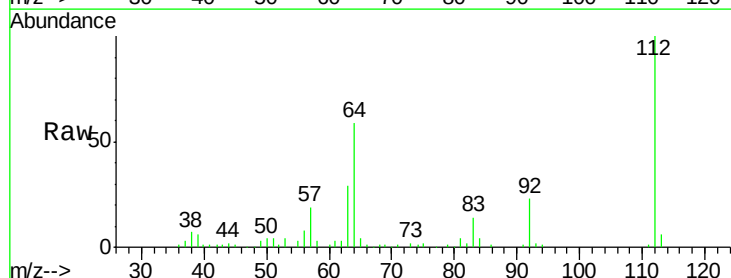
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



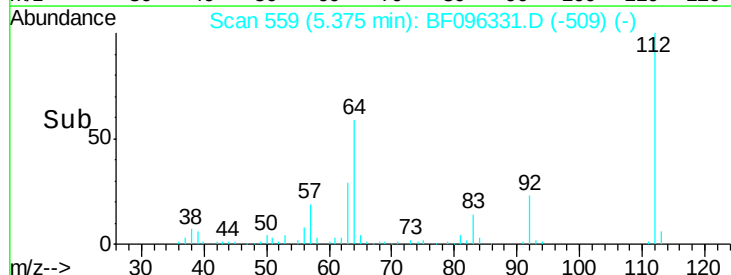
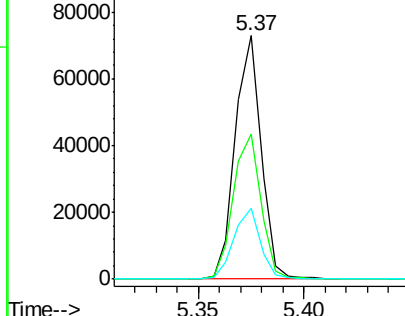
#5

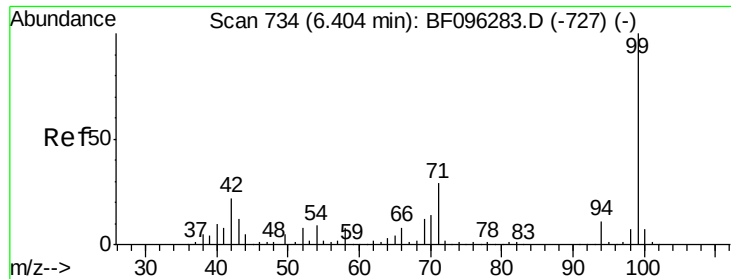
2-Fluorophenol  
Concen: 5.970 ng  
RT: 5.37 min Scan# 559  
Delta R.T. -0.01 min  
Lab File: BF096331.D  
Acq: 30 Jun 2017 12:23

Tgt Ion:112 Resp: 61782  
Ion Ratio Lower Upper  
112 100  
64 59.4 46.0 69.0  
63 29.0 23.4 35.0



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: 6.092 ng

RT: 6.39 min Scan# 732

Delta R.T. -0.00 min

Lab File: BF096331.D

Acq: 30 Jun 2017 12:23

Instrument :

BNA\_F

ClientSampleId :

G42-1.5-3

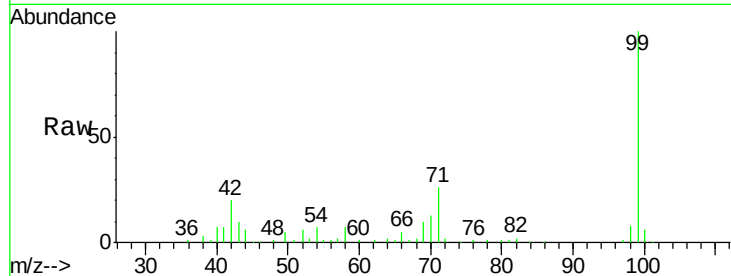
Tgt Ion: 99 Resp: 76331

Ion Ratio Lower Upper

99 100

42 19.6 13.5 20.3

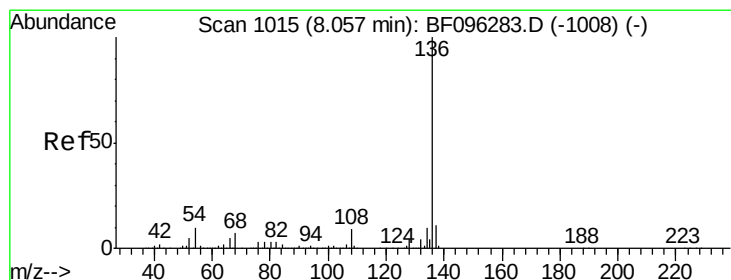
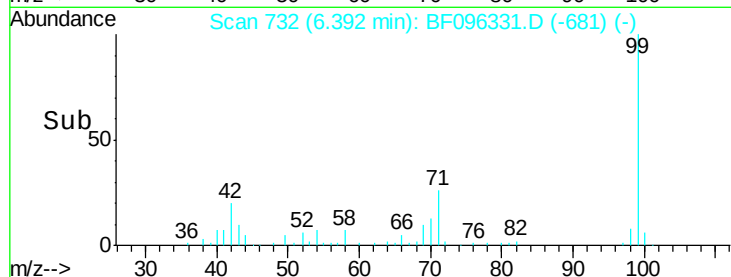
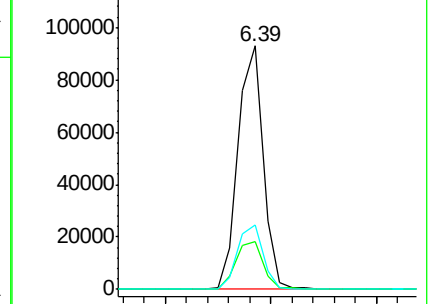
71 26.2 24.5 36.7



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



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.05 min Scan# 1014

Delta R.T. -0.01 min

Lab File: BF096331.D

Acq: 30 Jun 2017 12:23

Tgt Ion: 136 Resp: 609067

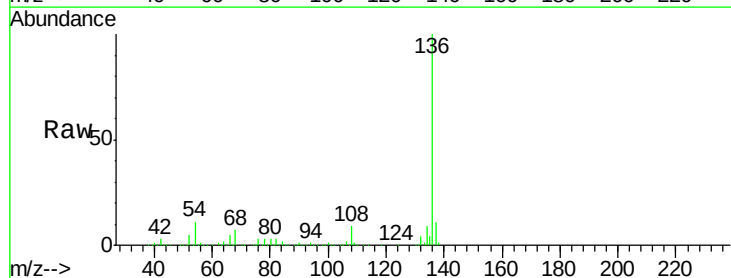
Ion Ratio Lower Upper

136 100

137 10.9 8.5 12.7

54 11.2 4.9 7.3#

68 6.6 4.1 6.1#

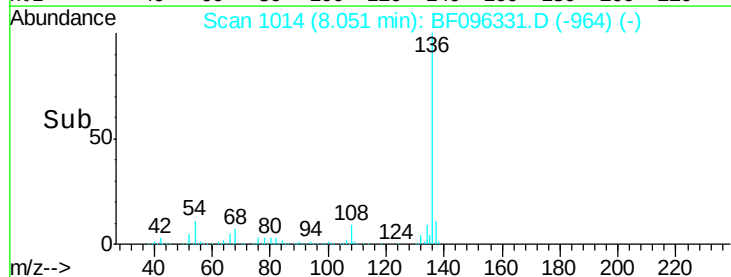
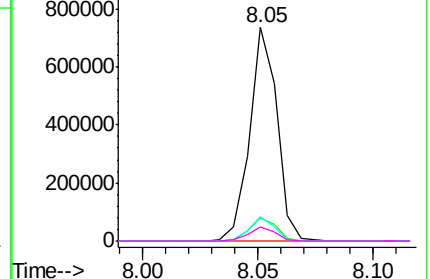


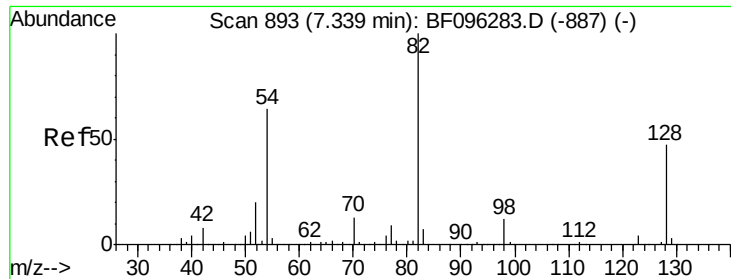
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0

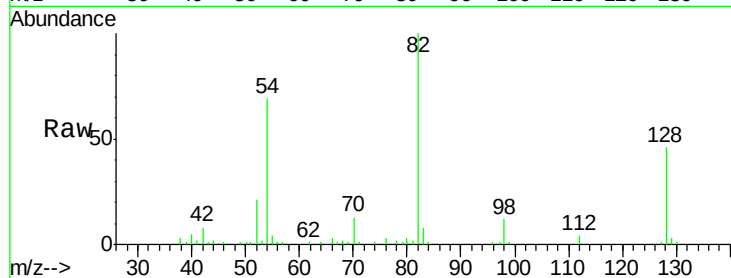




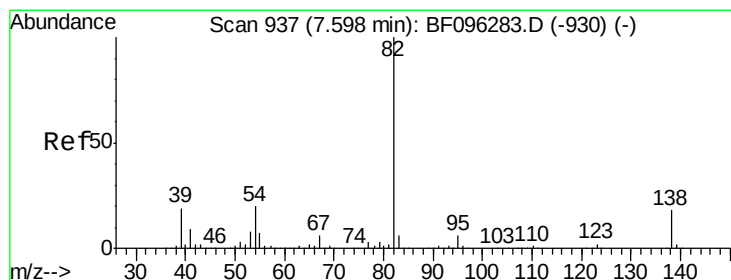
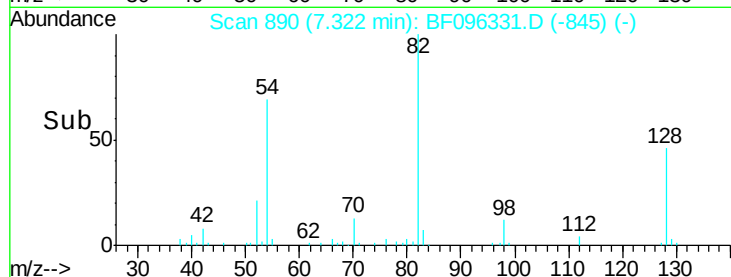
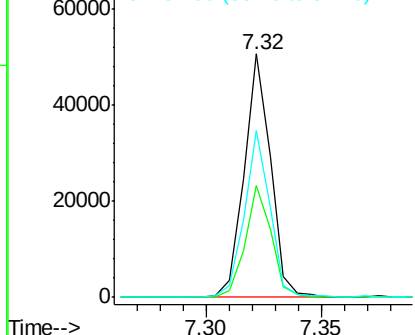
#23  
 Nitrobenzene-d5  
 Concen: 4.608 ng  
 RT: 7.32 min Scan# 890  
 Delta R.T. -0.04 min  
 Lab File: BF096331.D  
 Acq: 30 Jun 2017 12:23

Instrument :  
 BNA\_F  
 ClientSampleId :  
 G42-1.5-3

Tgt Ion: 82 Resp: 40545  
 Ion Ratio Lower Upper  
 82 100  
 128 46.0 34.0 51.0  
 54 68.6 42.2 63.2#

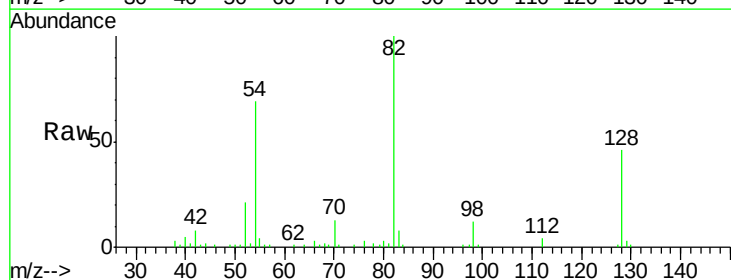


Abundance Ion 82.00 (81.70 to 82.70): BF0  
 Ion 128.00 (127.70 to 128.70): BF0  
 Ion 54.00 (53.70 to 54.70): BF0

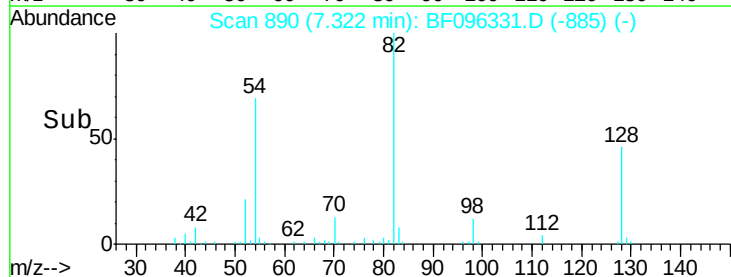
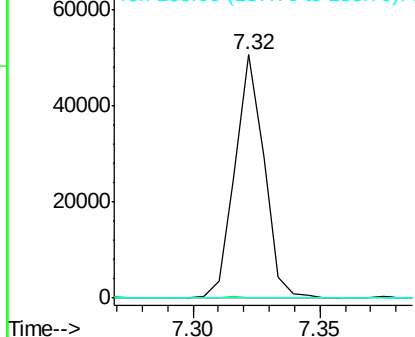


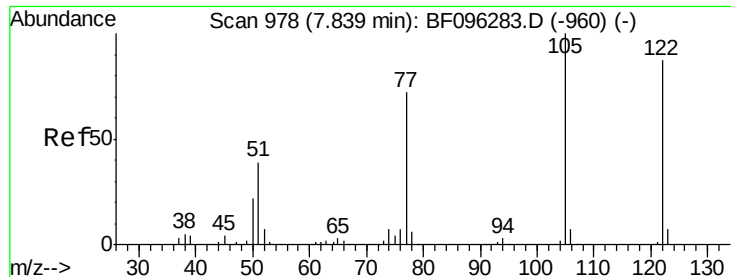
#25  
 Isophorone  
 Concen: 2.029 ng  
 RT: 7.32 min Scan# 890  
 Delta R.T. -0.27 min  
 Lab File: BF096331.D  
 Acq: 30 Jun 2017 12:23

Tgt Ion: 82 Resp: 40544  
 Ion Ratio Lower Upper  
 82 100  
 95 0.0 5.3 7.9#  
 138 0.0 13.1 19.7#



Abundance Ion 82.00 (81.70 to 82.70): BF0  
 Ion 95.00 (94.70 to 95.70): BF0  
 Ion 138.00 (137.70 to 138.70): BF0





#32

Benzoic acid

Concen: 8.881 ng

RT: 7.73 min Scan# 960

Delta R.T. -0.15 min

Lab File: BF096331.D

Acq: 30 Jun 2017 12:23

Instrument :

BNA\_F

ClientSampleId :

G42-1.5-3

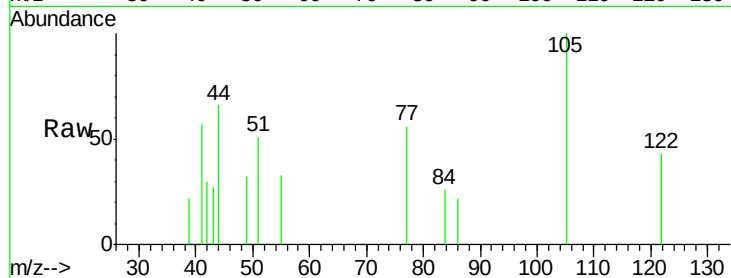
Tgt Ion:122 Resp: 745

Ion Ratio Lower Upper

122 100

105 230.0 103.3 143.3#

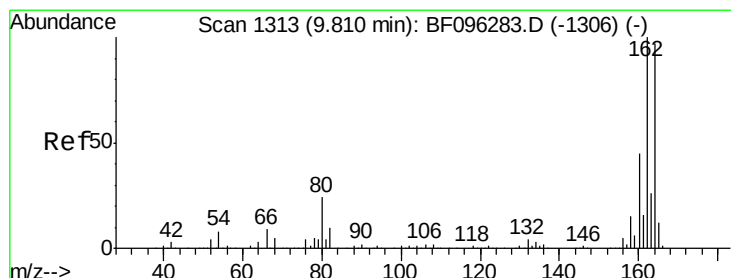
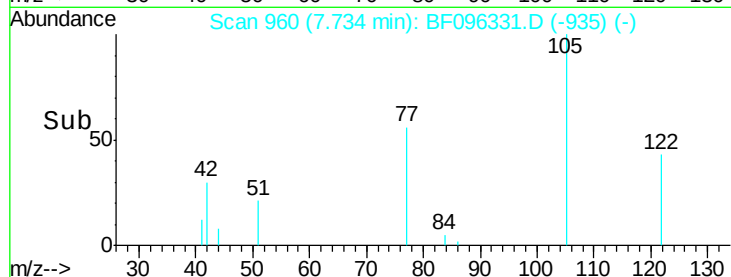
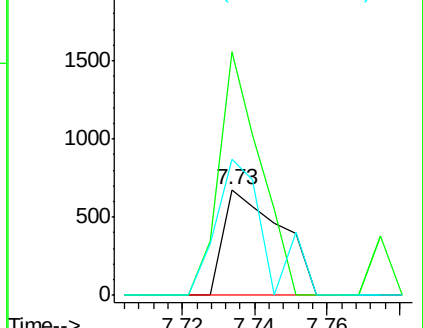
77 128.4 73.7 113.7#



Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF0



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.80 min Scan# 1312

Delta R.T. -0.01 min

Lab File: BF096331.D

Acq: 30 Jun 2017 12:23

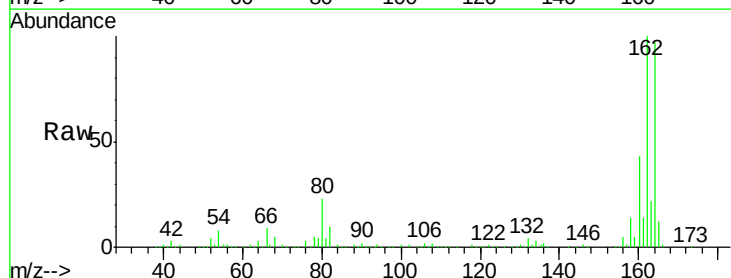
Tgt Ion:164 Resp: 242287

Ion Ratio Lower Upper

164 100

162 103.5 82.6 123.8

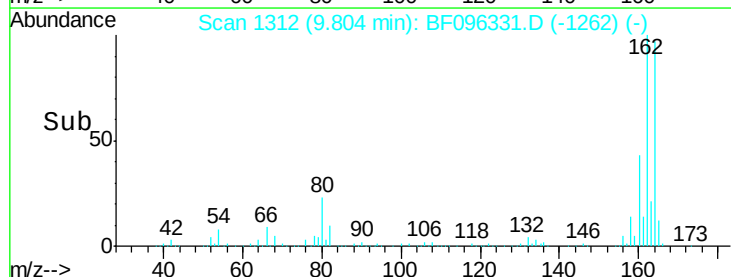
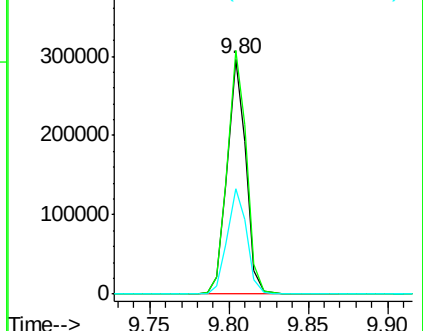
160 44.6 36.2 54.2

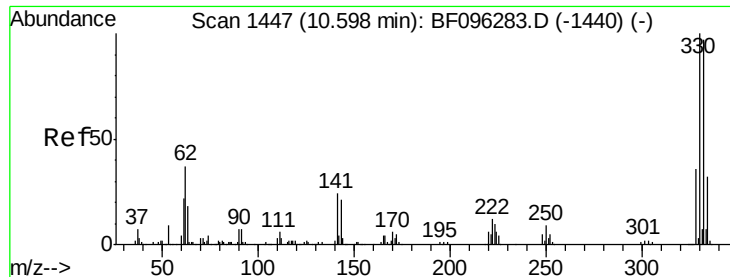


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#41

2,4,6-Tribromophenol

Concen: 6.522 ng

RT: 10.59 min Scan# 1445

Delta R.T. -0.01 min

Lab File: BF096331.D

Acq: 30 Jun 2017 12:23

Instrument :

BNA\_F

ClientSampleId :

G42-1.5-3

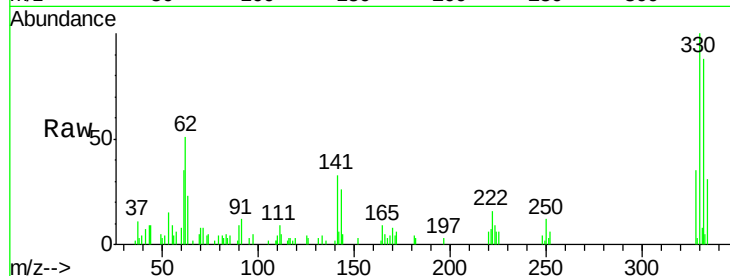
Tgt Ion:330 Resp: 12436

Ion Ratio Lower Upper

330 100

332 91.1 76.6 115.0

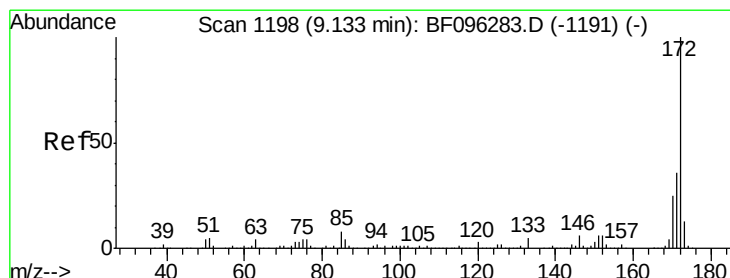
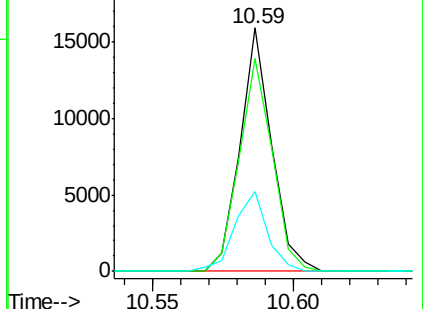
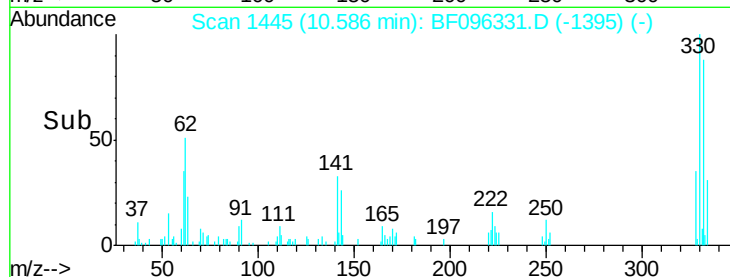
141 34.0 31.4 47.2



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: 5.928 ng

RT: 9.13 min Scan# 1197

Delta R.T. -0.02 min

Lab File: BF096331.D

Acq: 30 Jun 2017 12:23

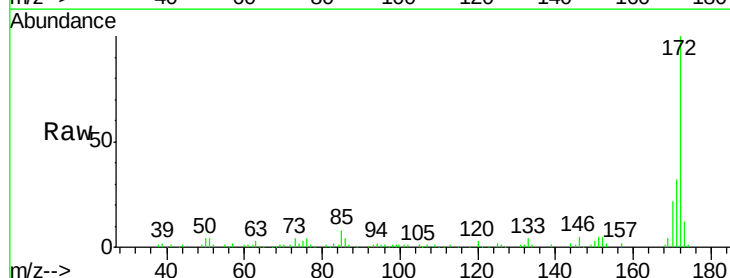
Tgt Ion:172 Resp: 78426

Ion Ratio Lower Upper

172 100

171 32.5 29.6 44.4

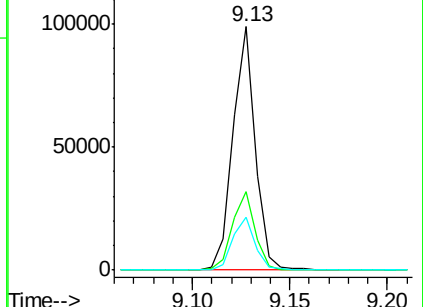
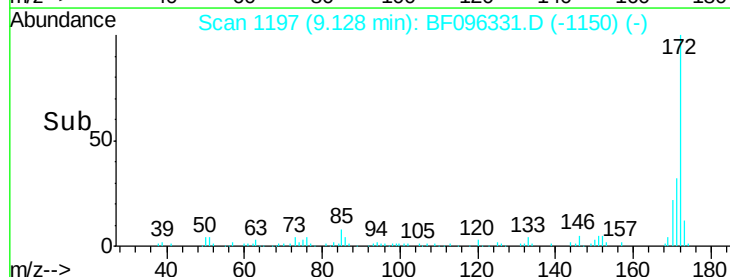
170 21.6 19.8 29.8

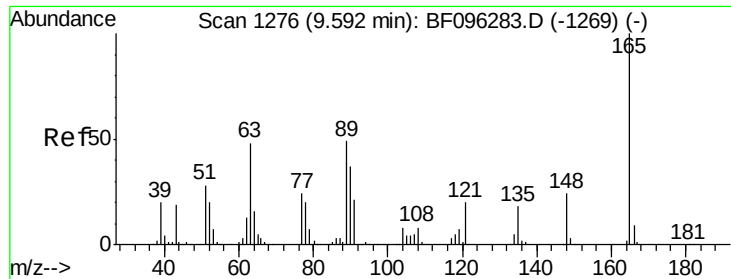


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E

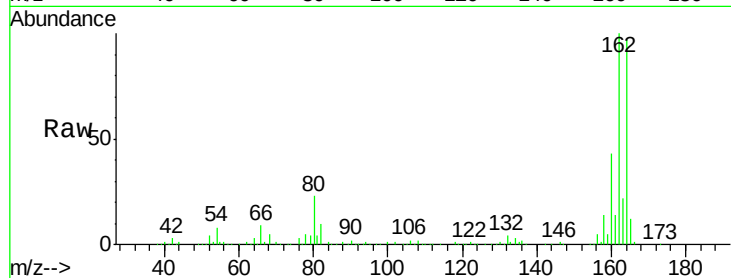




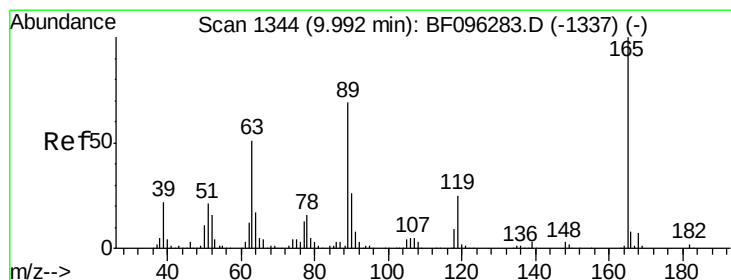
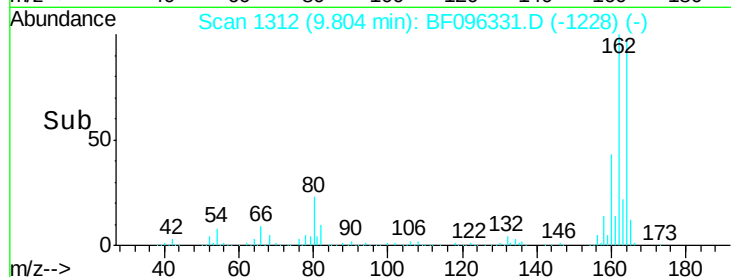
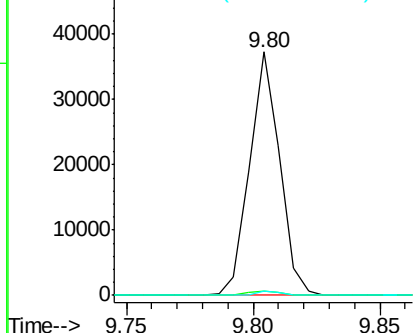
#50  
2,6-Dinitrotoluene  
Concen: 8.521 ng  
RT: 9.80 min Scan# 1312  
Delta R.T. 0.19 min  
Lab File: BF096331.D  
Acq: 30 Jun 2017 12:23

Instrument :  
BNA\_F  
ClientSampleId :  
G42-1.5-3

Tgt Ion:165 Resp: 30734  
Ion Ratio Lower Upper  
165 100  
63 1.6 34.3 51.5#  
89 1.5 37.1 55.7#



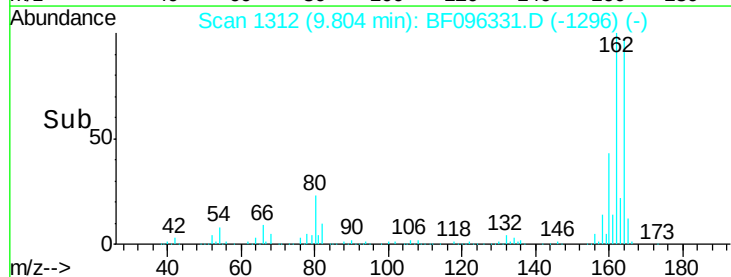
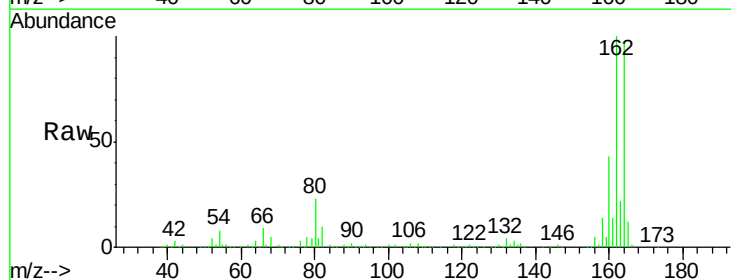
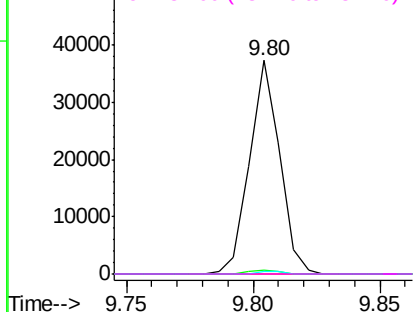
Abundance Ion 165.00 (164.70 to 165.70): E  
Ion 63.00 (62.70 to 63.70): BF0  
Ion 89.00 (88.70 to 89.70): BF0



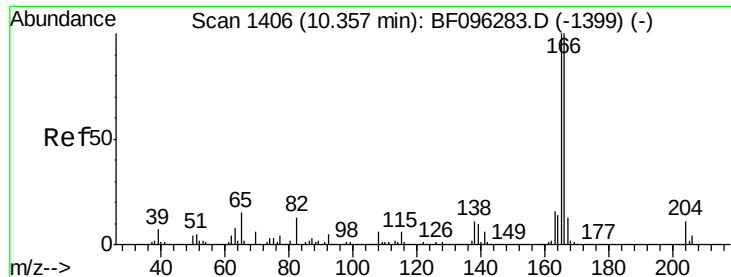
#56  
2,4-Dinitrotoluene  
Concen: 6.761 ng  
RT: 9.80 min Scan# 1312  
Delta R.T. -0.21 min  
Lab File: BF096331.D  
Acq: 30 Jun 2017 12:23

Tgt Ion:165 Resp: 30734  
Ion Ratio Lower Upper  
165 100  
63 1.6 25.4 38.0#  
89 1.5 46.4 69.6#  
182 0.0 1.8 2.6#

Abundance Ion 165.00 (164.70 to 165.70): E  
Ion 63.00 (62.70 to 63.70): BF0  
Ion 89.00 (88.70 to 89.70): BF0  
Ion 182.00 (181.70 to 182.70): E







#57

Fluorene

Concen: Below Cal

RT: 10.35 min Scan# 1405

Delta R.T. -0.02 min

Lab File: BF096331.D

Acq: 30 Jun 2017 12:23

Instrument :

BNA\_F

ClientSampled :

G42-1.5-3

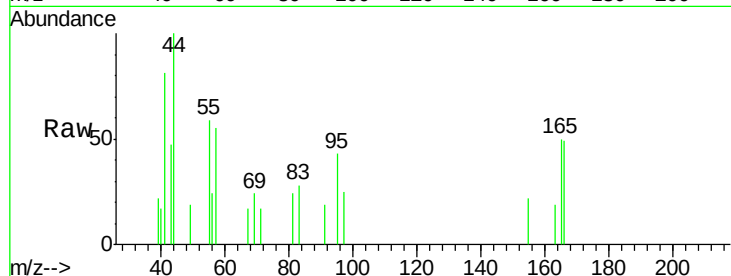
Tgt Ion:166 Resp: 955

Ion Ratio Lower Upper

166 100

165 100.9 78.8 118.2

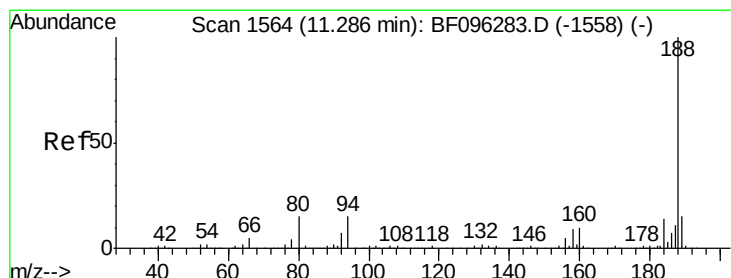
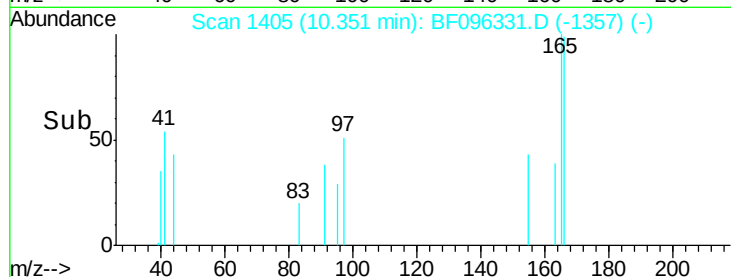
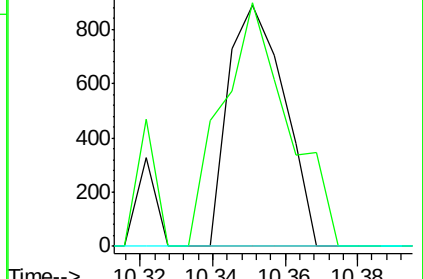
167 0.0 10.6 16.0#



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.29 min Scan# 1564

Delta R.T. -0.00 min

Lab File: BF096331.D

Acq: 30 Jun 2017 12:23

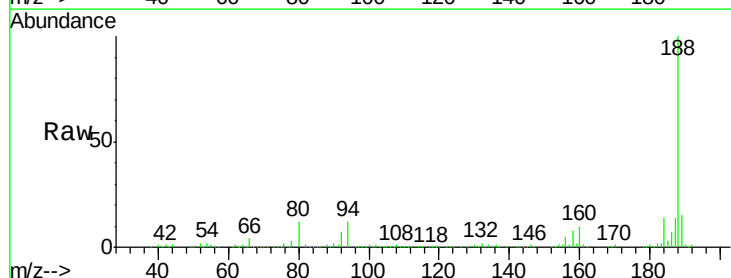
Tgt Ion:188 Resp: 341467

Ion Ratio Lower Upper

188 100

94 12.2 9.4 14.2

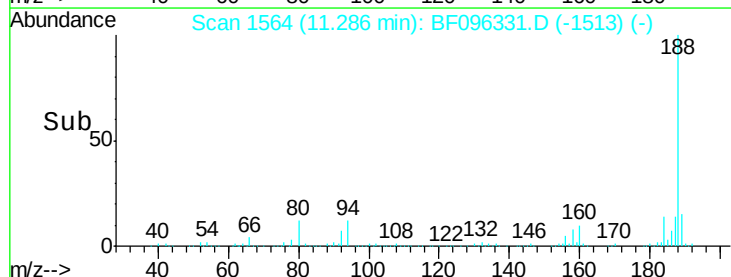
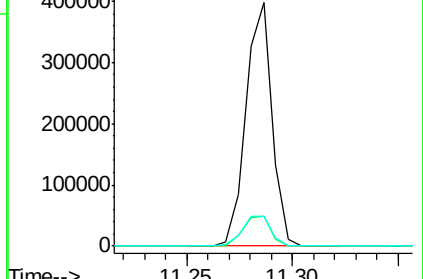
80 12.3 10.2 15.2

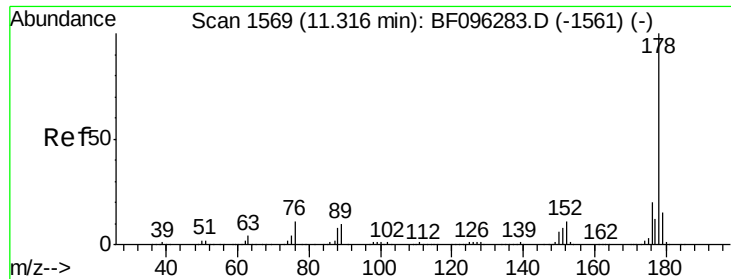


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





#70

Phenanthrene

Concen: Below Cal

RT: 11.31 min Scan# 1568

Delta R.T. -0.02 min

Lab File: BF096331.D

Acq: 30 Jun 2017 12:23

Instrument :

BNA\_F

ClientSampleId :

G42-1.5-3

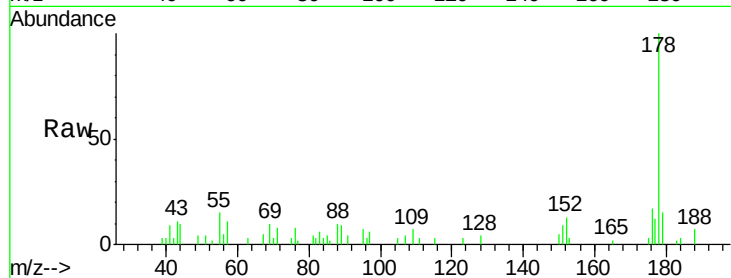
Tgt Ion:178 Resp: 12284

Ion Ratio Lower Upper

178 100

176 17.3 16.2 24.4

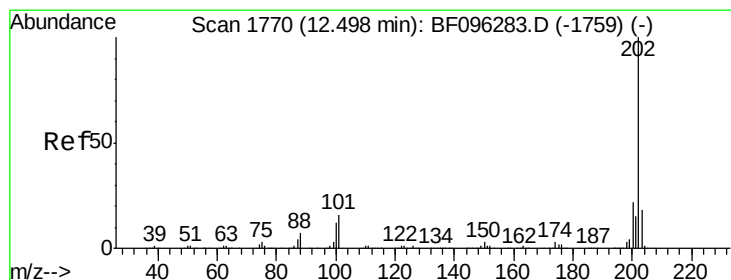
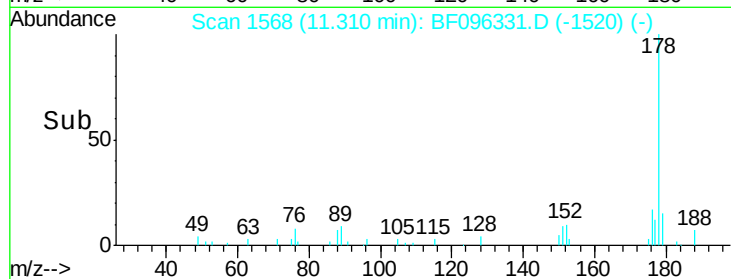
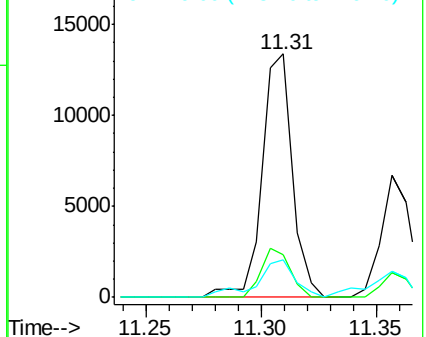
179 15.3 12.6 19.0



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



#74

Fluoranthene

Concen: 2.667 ng

RT: 12.49 min Scan# 1769

Delta R.T. -0.00 min

Lab File: BF096331.D

Acq: 30 Jun 2017 12:23

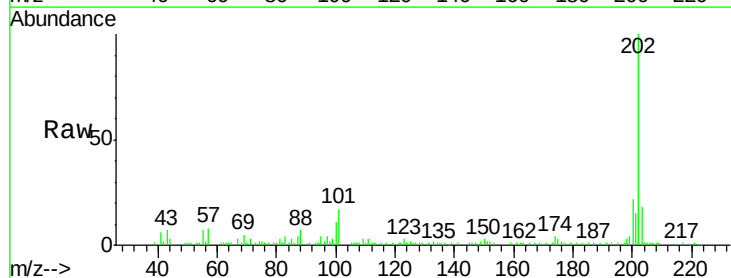
Tgt Ion:202 Resp: 50586

Ion Ratio Lower Upper

202 100

101 16.9 0.0 33.2

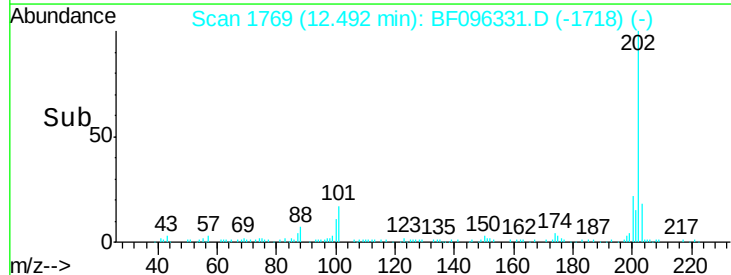
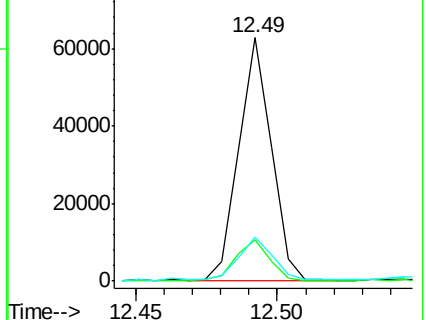
203 18.3 0.0 38.1

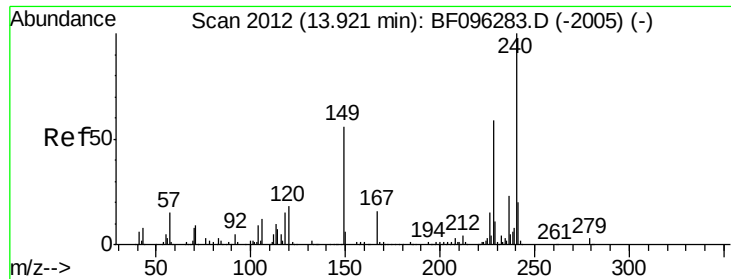


Abundance Ion 202.00 (201.70 to 202.70): E

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: 13.92 min Scan# 2011

Delta R.T. -0.00 min

Lab File: BF096331.D

Acq: 30 Jun 2017 12:23

Instrument :

BNA\_F

ClientSampleId :

G42-1.5-3

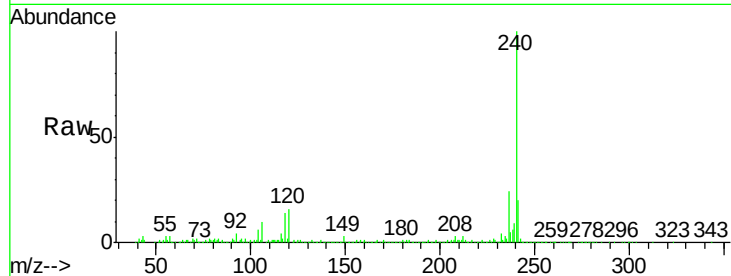
Tgt Ion:240 Resp: 317697

Ion Ratio Lower Upper

240 100

120 15.6 5.8 8.8#

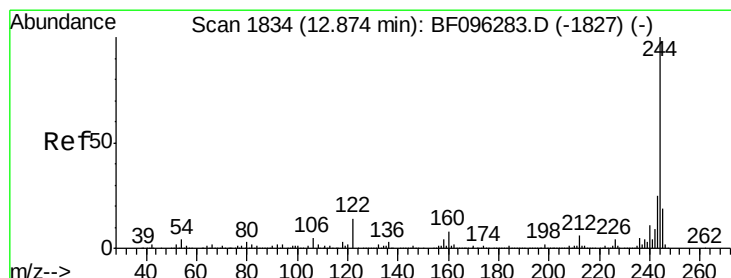
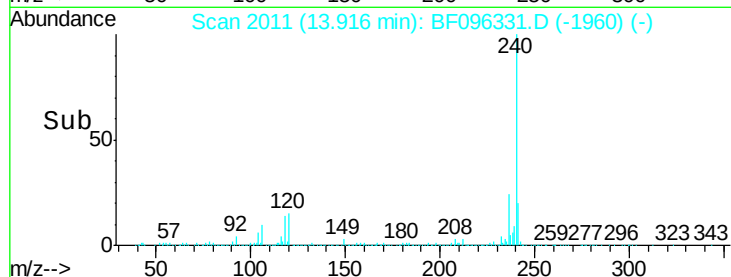
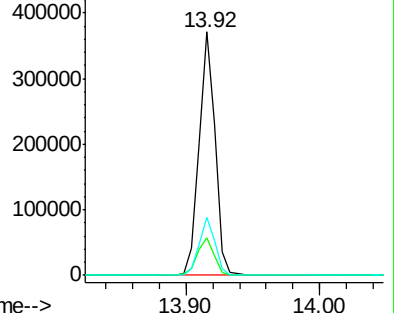
236 23.9 20.5 30.7



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: 3.806 ng

RT: 12.86 min Scan# 1832

Delta R.T. -0.01 min

Lab File: BF096331.D

Acq: 30 Jun 2017 12:23

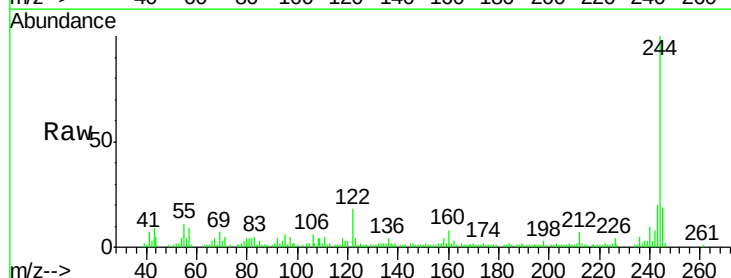
Tgt Ion:244 Resp: 48456

Ion Ratio Lower Upper

244 100

212 6.6 6.0 9.0

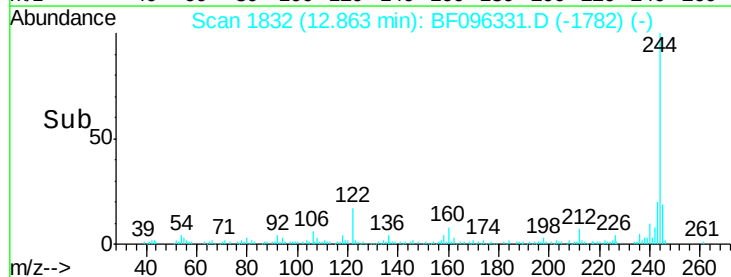
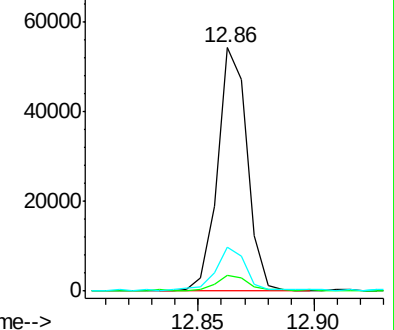
122 17.9 10.3 15.5#

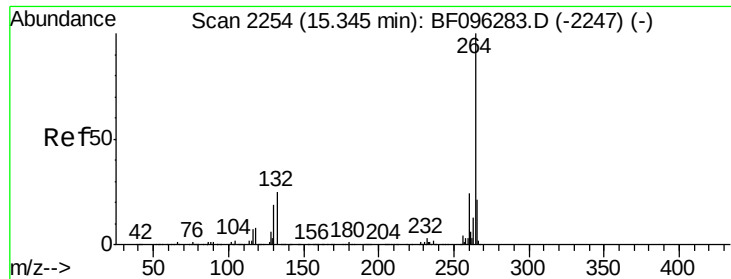


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

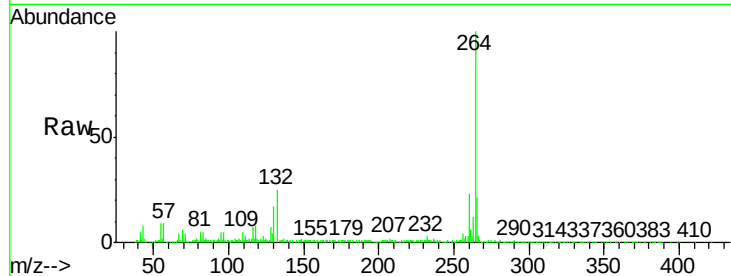




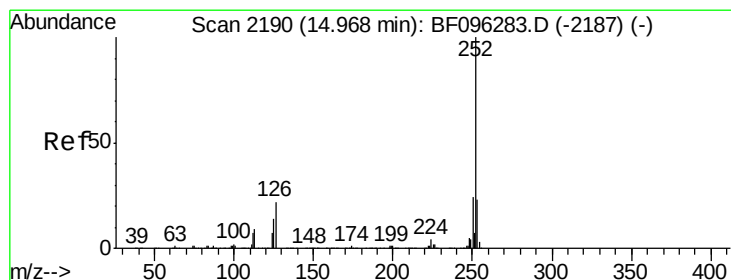
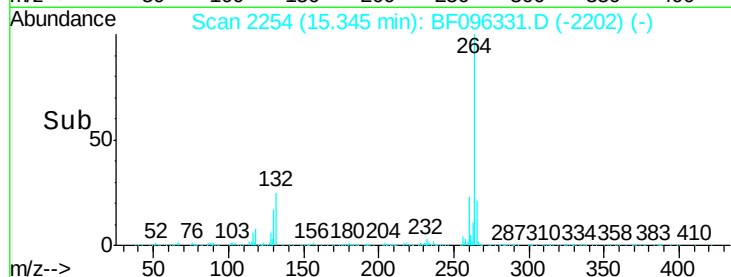
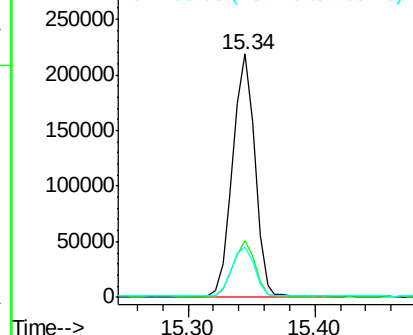
#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.34 min Scan# 2254  
Delta R.T. 0.01 min  
Lab File: BF096331.D  
Acq: 30 Jun 2017 12:23

Instrument :  
BNA\_F  
ClientSampleId :  
G42-1.5-3

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.1  | 19.5  | 29.3  |
| 265     | 20.9  | 17.2  | 25.8  |

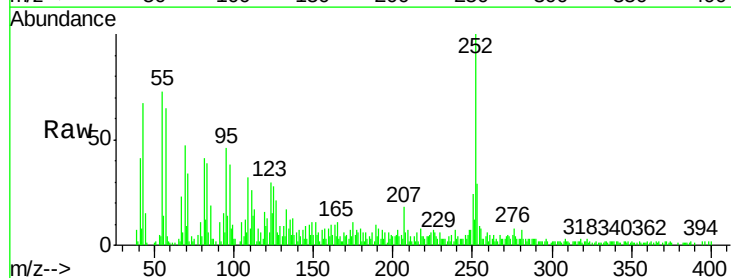


Abundance Ion 264.00 (263.70 to 264.70): E  
Ion 260.00 (259.70 to 260.70): E  
Ion 265.00 (264.70 to 265.70): E

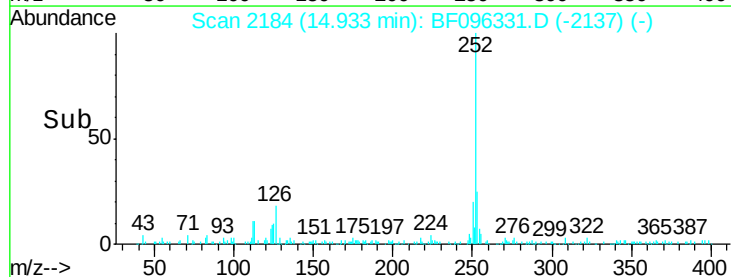
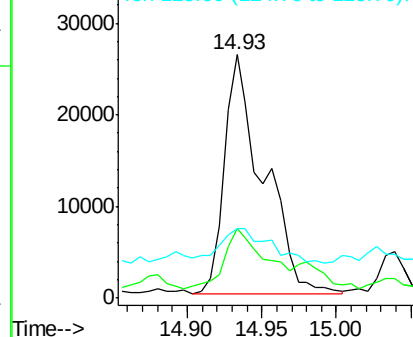


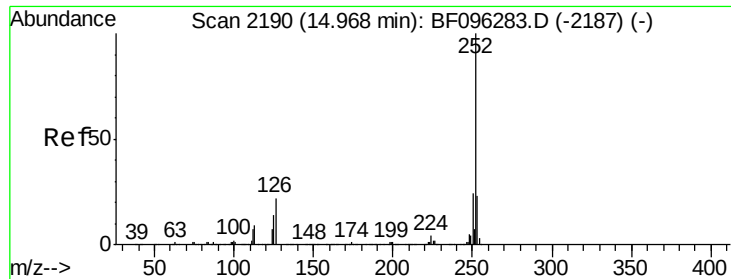
#87  
Benzo(b)fluoranthene  
Concen: 2.710 ng  
RT: 14.93 min Scan# 2184  
Delta R.T. -0.02 min  
Lab File: BF096331.D  
Acq: 30 Jun 2017 12:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 28.8  | 18.1  | 27.1# |
| 125     | 28.4  | 9.8   | 14.8# |



Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E





#88

Benzo(k)fluoranthene

Concen: 2.969 ng

RT: 14.93 min Scan# 2184

Delta R.T. -0.02 min

Lab File: BF096331.D

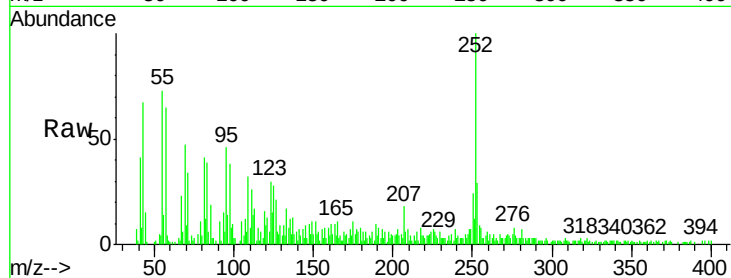
Acq: 30 Jun 2017 12:23

Instrument :

BNA\_F

ClientSampleId :

G42-1.5-3



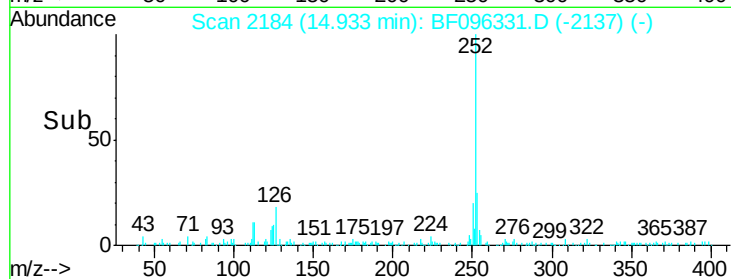
Tgt Ion: 252 Resp: 47389

Ion Ratio Lower Upper

252 100

253 28.8 18.4 27.6#

125 28.4 13.1 19.7#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

