

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF083118\  
 Data File : BF108689.D  
 Acq On : 31 Aug 2018 15:19  
 Operator : JU/SJ  
 Sample : J4712-01  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Aug 31 16:26:38 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF083018.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Aug 30 15:06:55 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.00  | 152  | 83165    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.28  | 136  | 366977   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 10.04 | 164  | 171321   | 20.00 | ng    | -0.01    |
| 63) Phenanthrene-d10      | 11.54 | 188  | 272352   | 20.00 | ng    | -0.01    |
| 75) Chrysene-d12          | 14.19 | 240  | 231141   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.75 | 264  | 235860   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 5) 2-Fluorophenol           | 5.64  | 112  | 275355   | 57.52 | ng    | -0.01    |
| 7) Phenol-d6                | 6.64  | 99   | 525808   | 76.69 | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.57  | 82   | 360333   | 49.84 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 10.84 | 330  | 128874   | 56.98 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl        | 9.35  | 172  | 714653   | 56.09 | ng    | -0.01    |
| 78) Terphenyl-d14           | 13.12 | 244  | 521182   | 43.81 | ng    | -0.01    |

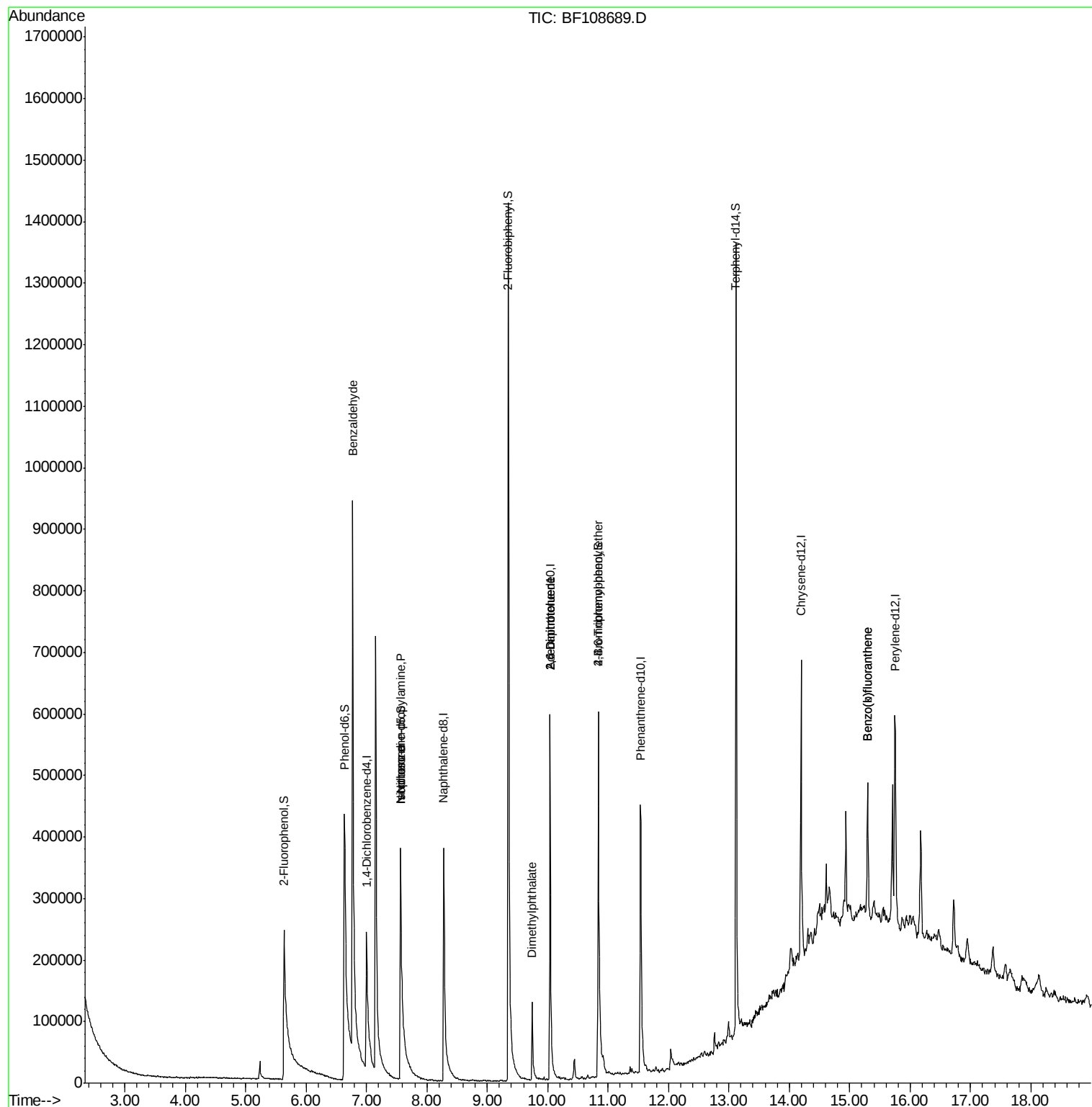
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 9) Benzaldehyde                | 6.77  | 77   | 9915     | 2.340  | ng    | # 75   |
| 19) n-Nitroso-di-n-propylamine | 7.57  | 70   | 41506    | 9.039  | ng    | # 87   |
| 25) Isophorone                 | 7.57  | 82   | 360333   | 30.003 | ng    | # 64   |
| 49) Dimethylphthalate          | 9.74  | 163  | 86005    | 6.375  | ng    | # 99   |
| 50) 2,6-Dinitrotoluene         | 10.04 | 165  | 20418    | 6.866  | ng    | # 24   |
| 56) 2,4-Dinitrotoluene         | 10.04 | 165  | 21024    | 5.340  | ng    | # 21   |
| 66) 4-Bromophenyl-phenylether  | 10.84 | 248  | 7903     | 2.361  | ng    | # 1    |
| 87) Benzo(b)fluoranthene       | 15.29 | 252  | 29701    | 2.050  | ng    | # 71   |
| 88) Benzo(k)fluoranthene       | 15.29 | 252  | 29701    | 2.069  | ng    | # 75   |

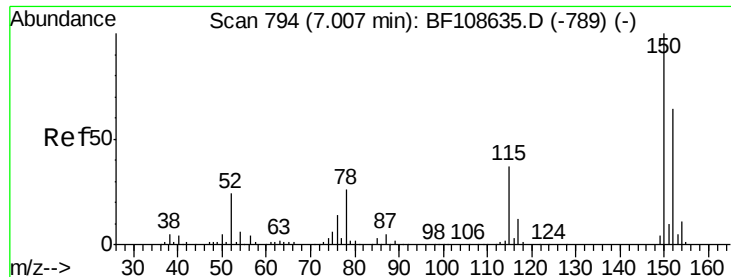
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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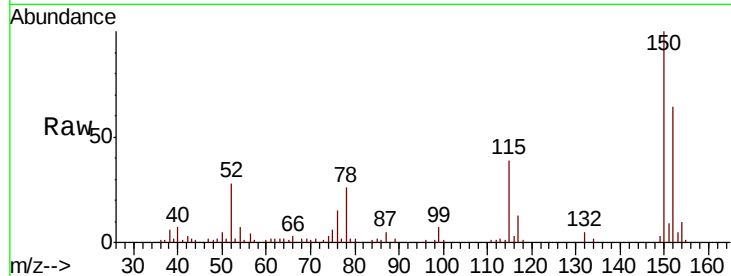


#1

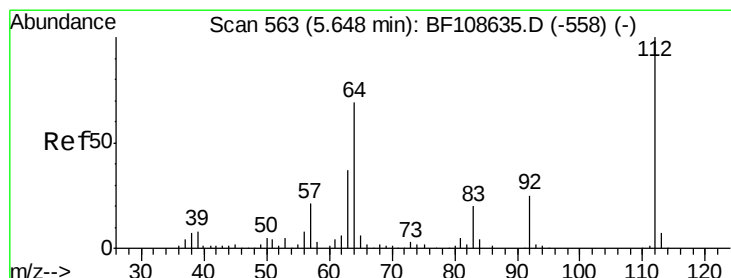
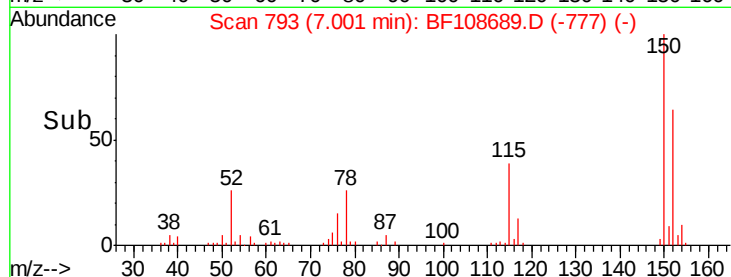
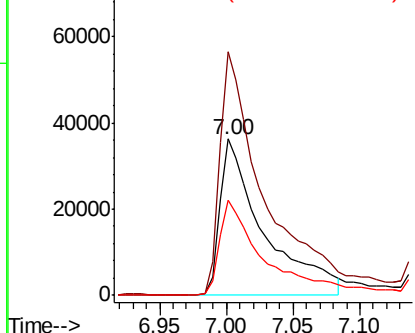
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.00 min Scan# 793  
Delta R.T. -0.01 min  
Lab File: BF108689.D  
Acq: 31 Aug 2018 15:19

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 83165  
Ion Ratio Lower Upper  
152 100  
150 155.5 124.6 186.8  
115 60.5 50.1 75.1



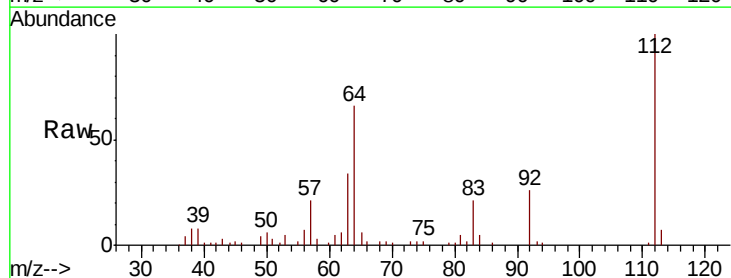
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



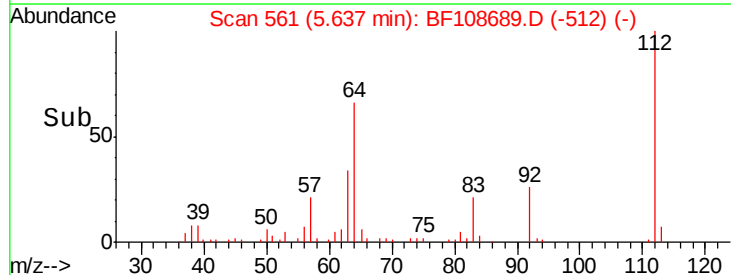
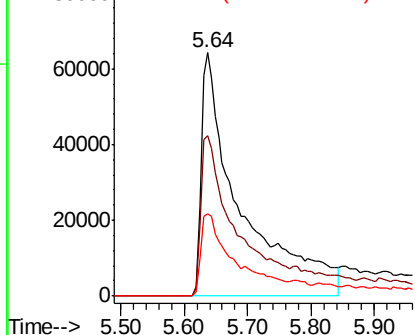
#5

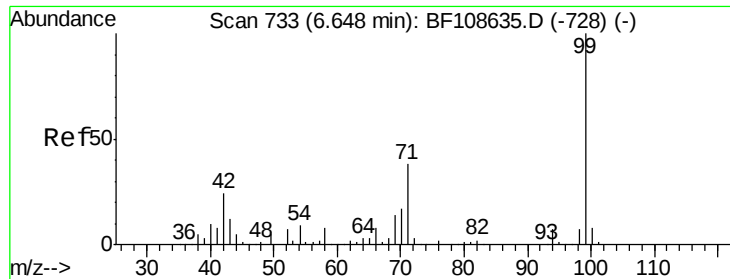
2-Fluorophenol  
Concen: 57.518 ng  
RT: 5.64 min Scan# 561  
Delta R.T. -0.01 min  
Lab File: BF108689.D  
Acq: 31 Aug 2018 15:19

Tgt Ion:112 Resp: 275355  
Ion Ratio Lower Upper  
112 100  
64 66.0 47.9 71.9  
63 33.7 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: 76.686 ng

RT: 6.64 min Scan# 731

Delta R.T. -0.01 min

Lab File: BF108689.D

Acq: 31 Aug 2018 15:19

Instrument :

BNA\_F

ClientSampleId :

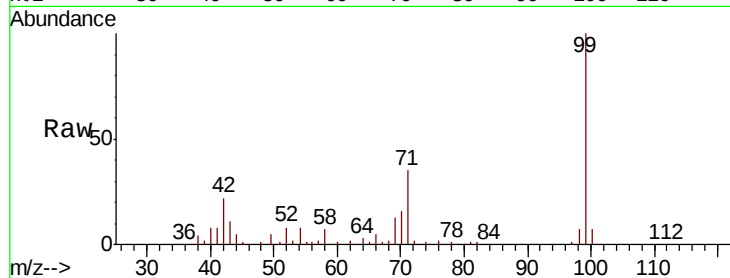
Tot Ion: 99 Resp: 525808

Ion Ratio Lower Upper

99 100

42 21.7 14.5 21.7

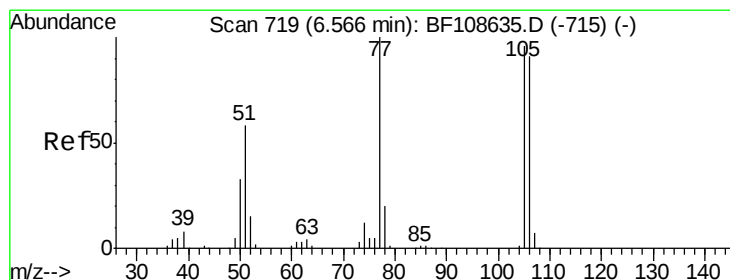
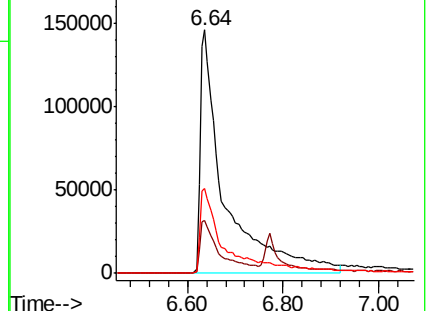
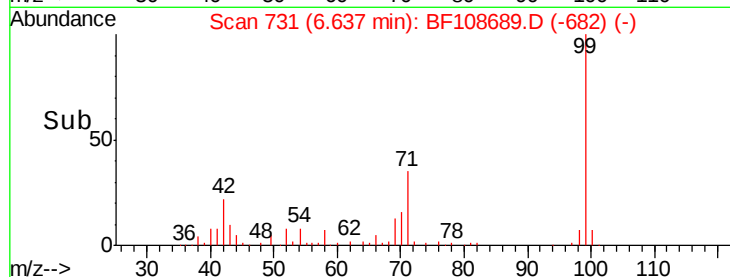
71 34.8 25.4 38.0



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



#9

Benzaldehyde

Concen: 2.340 ng

RT: 6.77 min Scan# 754

Delta R.T. 0.21 min

Lab File: BF108689.D

Acq: 31 Aug 2018 15:19

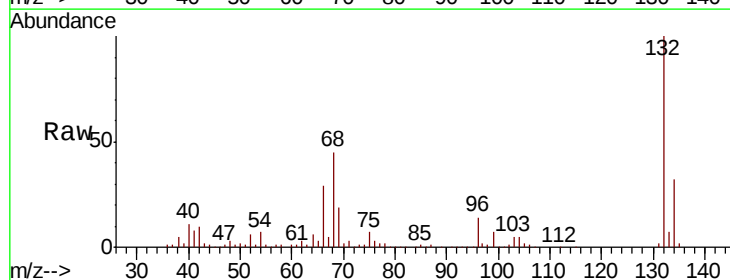
Tgt Ion: 77 Resp: 9915

Ion Ratio Lower Upper

77 100

105 84.9 81.1 121.1

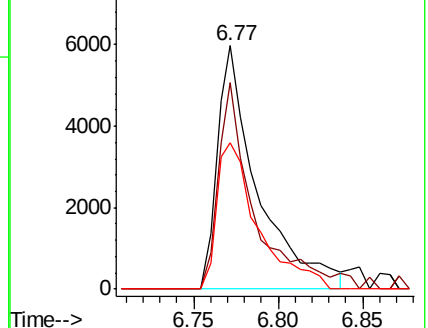
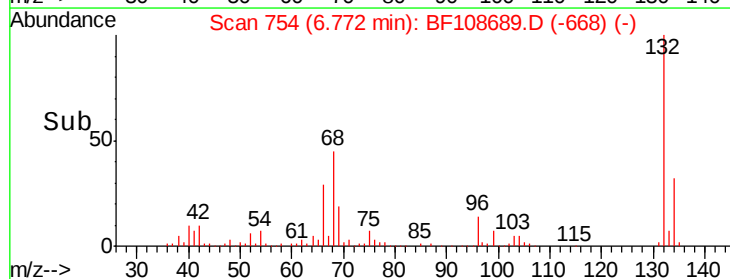
106 60.1 74.5 114.5#

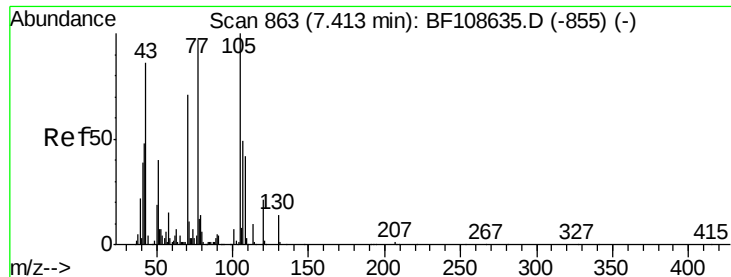


Abundance Ion 77.00 (76.70 to 77.70): BF1

Ion 105.00 (104.70 to 105.70): E

Ion 106.00 (105.70 to 106.70): E

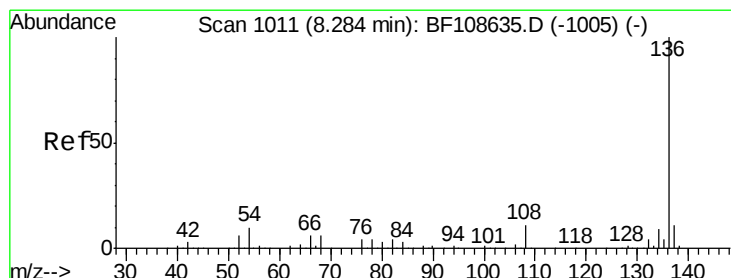
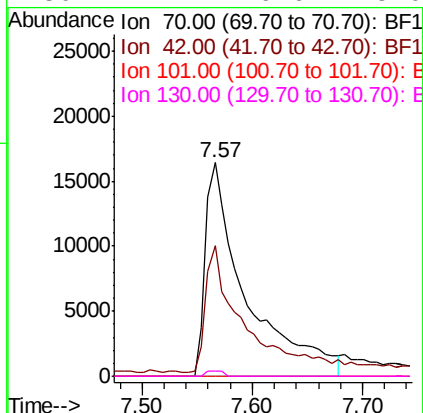
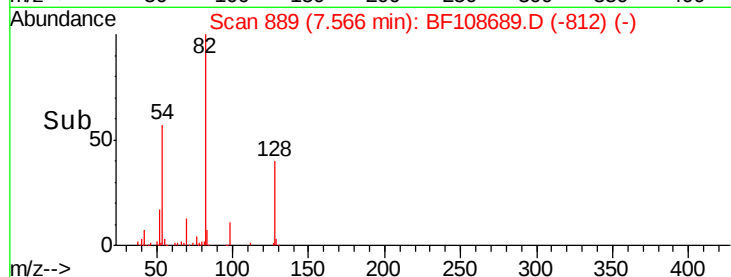
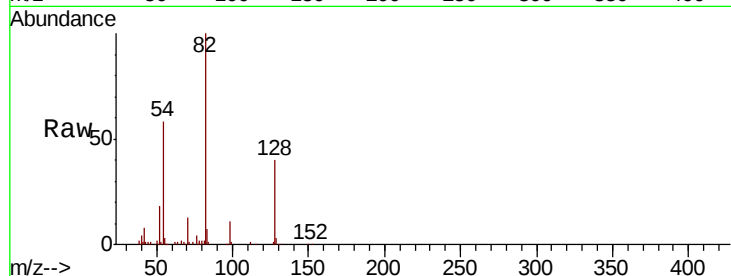




#19  
n-Nitroso-di-n-propylamine  
Concen: 9.039 ng  
RT: 7.57 min Scan# 889  
Delta R.T. 0.15 min  
Lab File: BF108689.D  
Acq: 31 Aug 2018 15:19

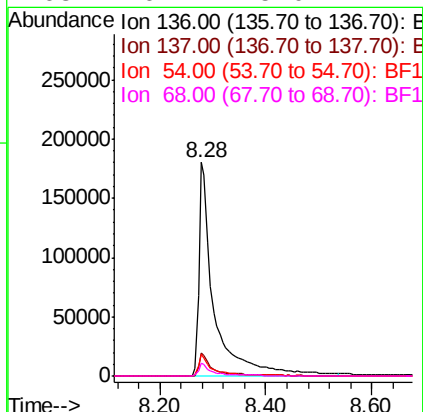
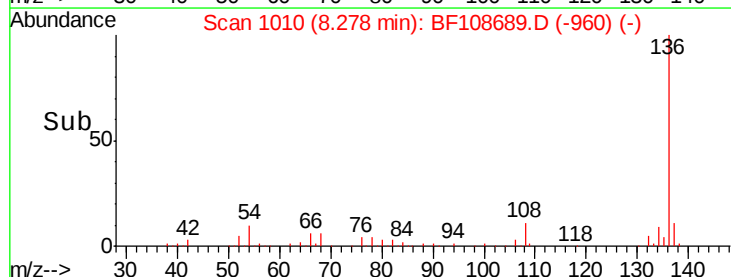
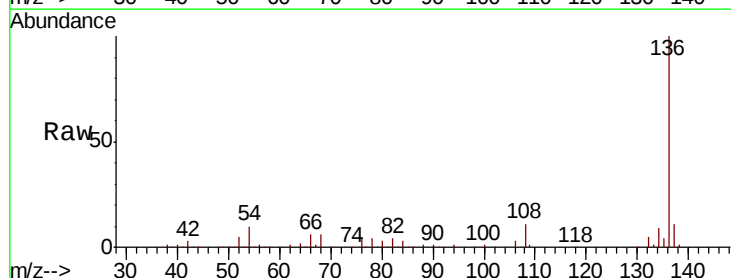
Instrument :  
BNA\_F  
ClientSampleId :

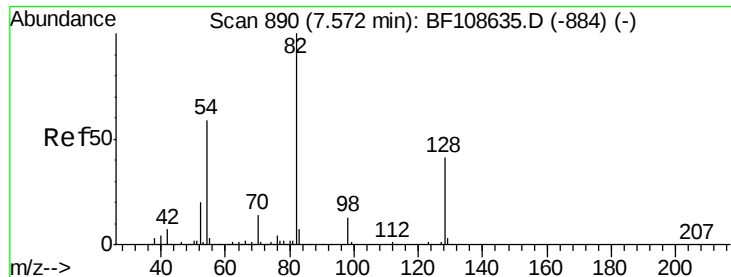
Tot Ion: 70 Resp: 41506  
Ion Ratio Lower Upper  
70 100  
42 61.2 47.5 71.3  
101 0.0 7.4 11.2#  
130 2.7 16.6 25.0#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.28 min Scan# 1010  
Delta R.T. -0.01 min  
Lab File: BF108689.D  
Acq: 31 Aug 2018 15:19

Tgt Ion: 136 Resp: 366977  
Ion Ratio Lower Upper  
136 100  
137 11.1 8.9 13.3  
54 9.9 6.6 9.8#  
68 6.1 5.0 7.4

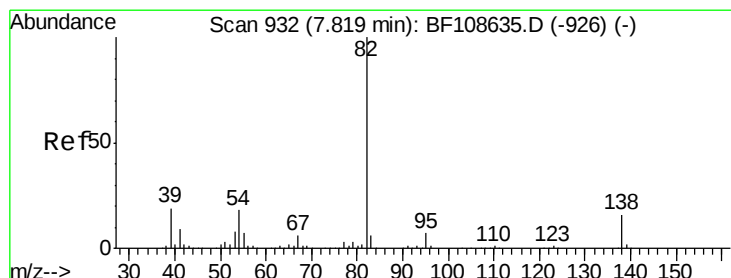
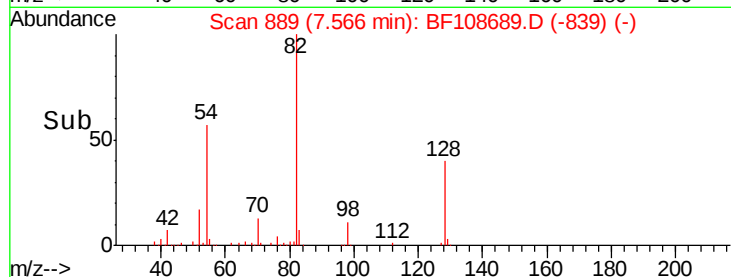
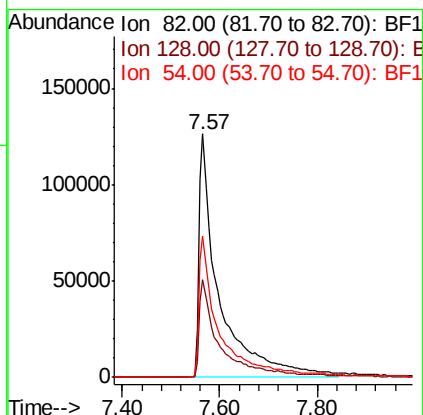
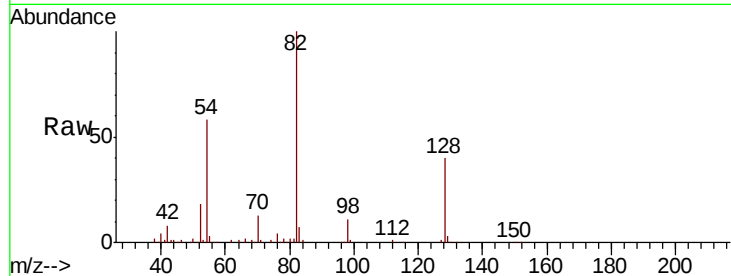




#23  
Nitrobenzene-d5  
Concen: 49.840 ng  
RT: 7.57 min Scan# 889  
Delta R.T. -0.01 min  
Lab File: BF108689.D  
Acq: 31 Aug 2018 15:19

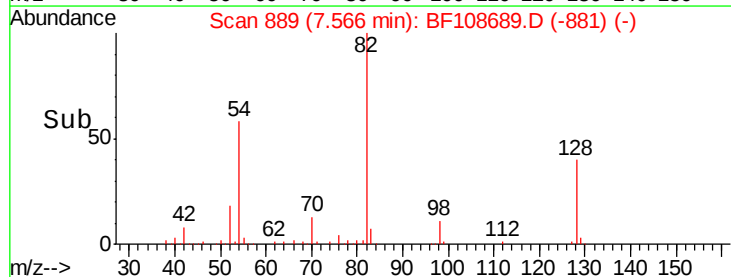
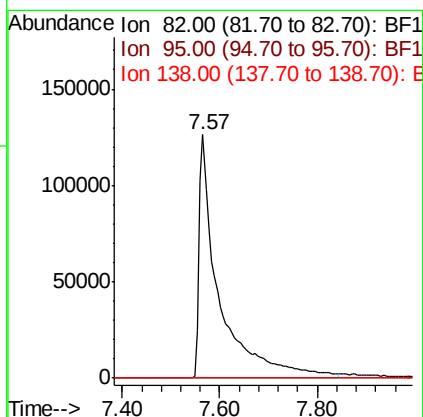
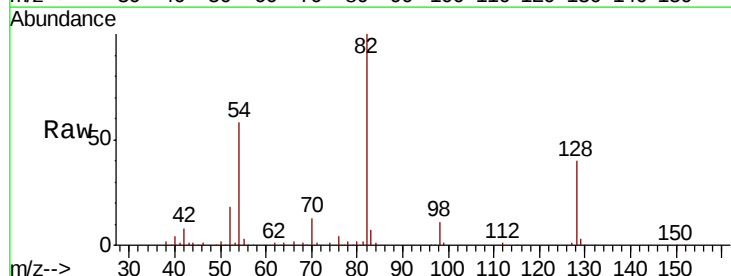
Instrument :  
BNA\_F  
ClientSampleId :

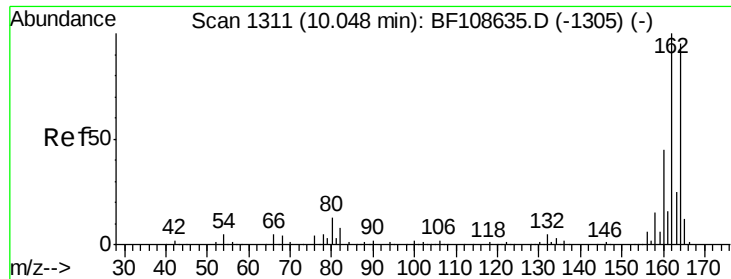
| Tot Ion   | 82    | Resp  | 360333 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 40.1  | 36.1  | 54.1   |
| 54        | 57.8  | 41.4  | 62.2   |



#25  
Isophorone  
Concen: 30.003 ng  
RT: 7.57 min Scan# 889  
Delta R.T. -0.25 min  
Lab File: BF108689.D  
Acq: 31 Aug 2018 15:19

| Tgt Ion   | 82    | Resp  | 360333 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 95        | 0.0   | 5.2   | 7.8#   |
| 138       | 0.0   | 14.9  | 22.3#  |





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 10.04 min Scan# 1309

Delta R.T. -0.01 min

Lab File: BF108689.D

Acq: 31 Aug 2018 15:19

Instrument :

BNA\_F

ClientSampleId :

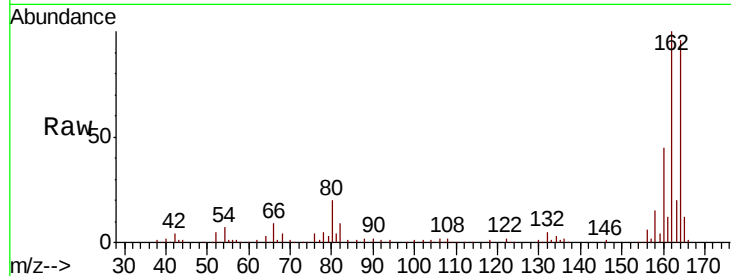
Tot Ion:164 Resp: 171321

Ion Ratio Lower Upper

164 100

162 103.9 86.1 129.1

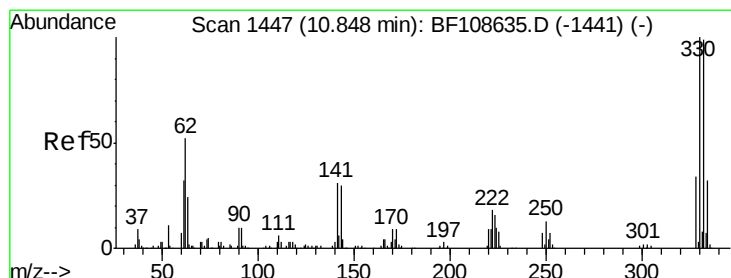
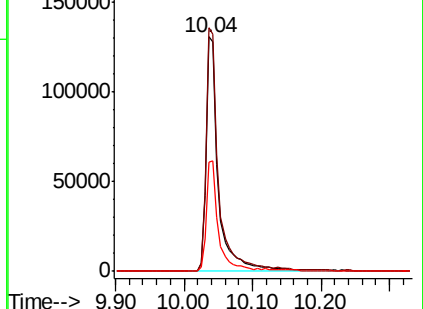
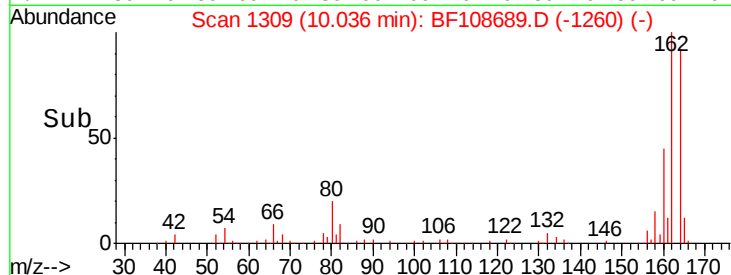
160 46.4 38.3 57.5



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: 56.982 ng

RT: 10.84 min Scan# 1445

Delta R.T. -0.01 min

Lab File: BF108689.D

Acq: 31 Aug 2018 15:19

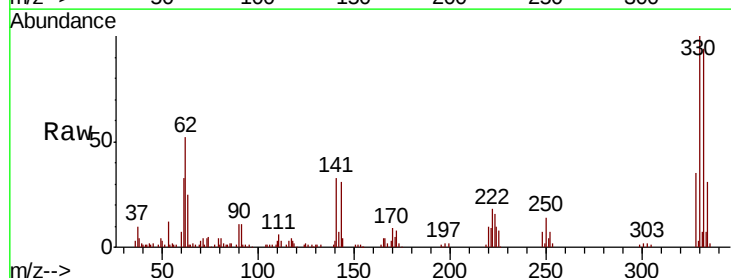
Tgt Ion:330 Resp: 128874

Ion Ratio Lower Upper

330 100

332 94.6 77.0 115.6

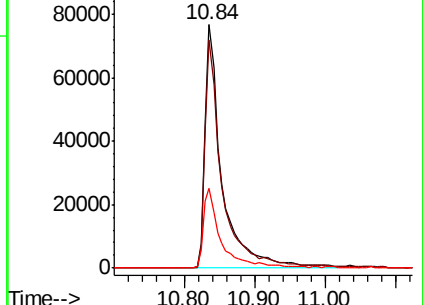
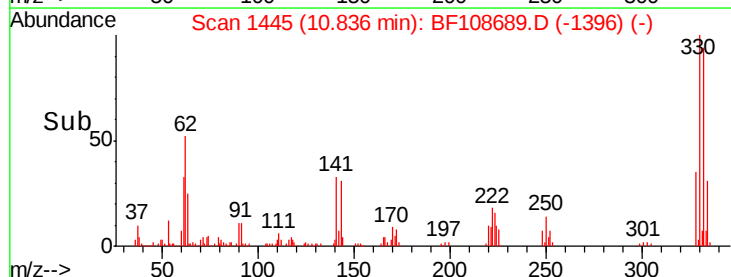
141 33.0 29.9 44.9

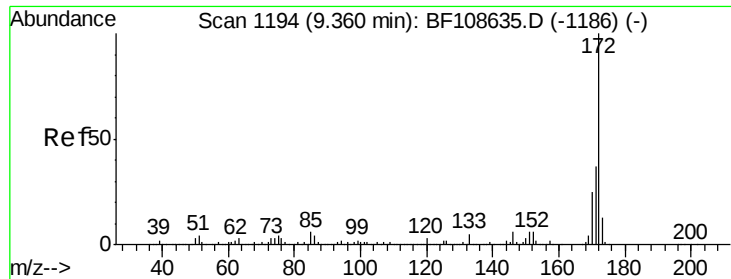


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

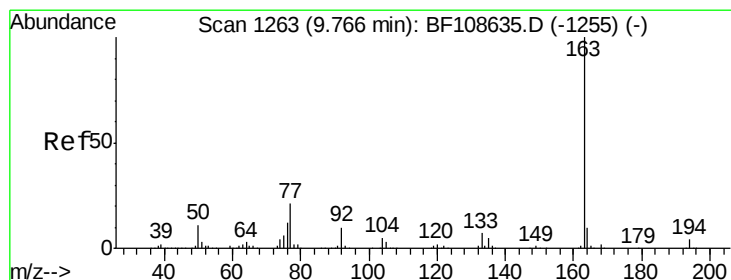
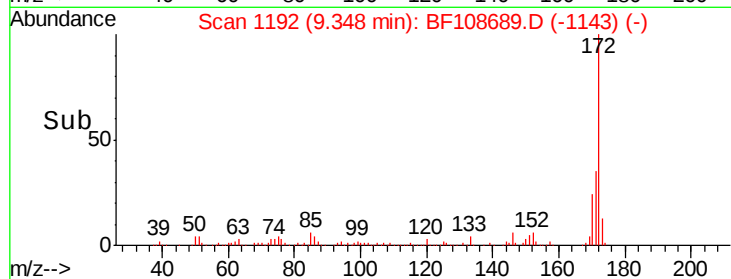
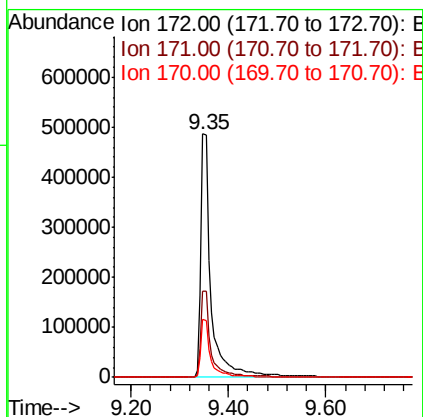
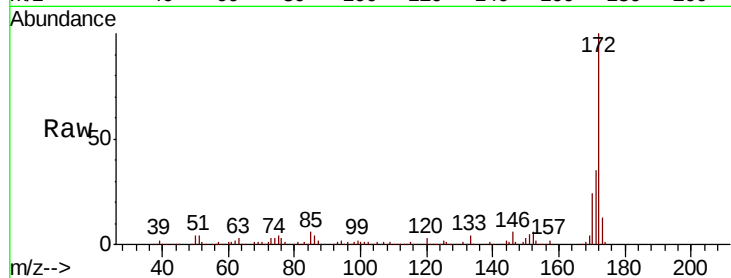




#44  
2-Fluorobiphenyl  
Concen: 56.088 ng  
RT: 9.35 min Scan# 1192  
Delta R.T. -0.01 min  
Lab File: BF108689.D  
Acq: 31 Aug 2018 15:19

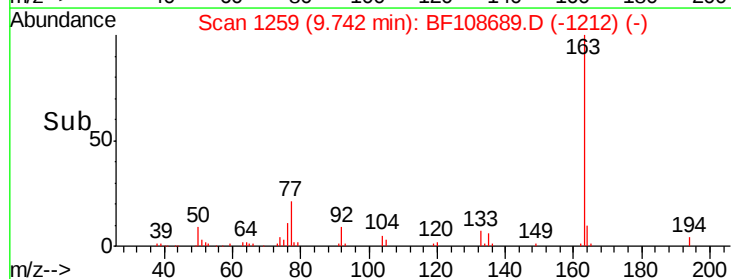
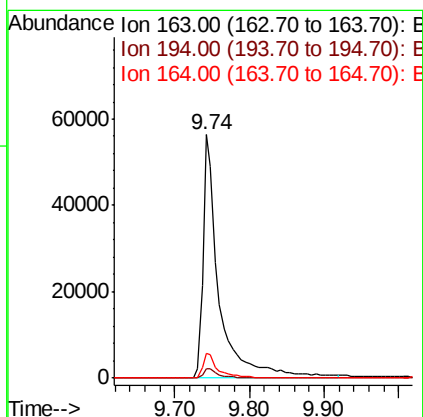
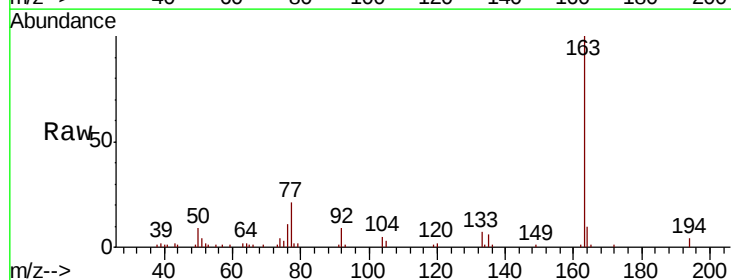
Instrument :  
BNA\_F  
ClientSampleId :

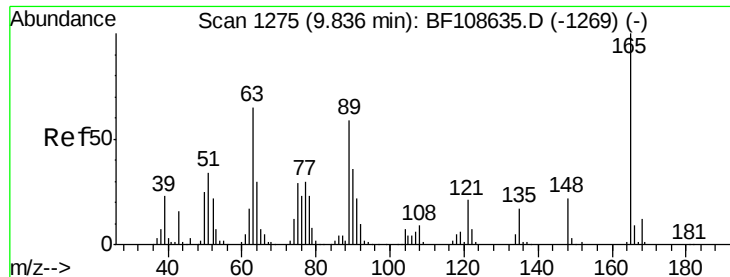
Tot Ion:172 Resp: 714653  
Ion Ratio Lower Upper  
172 100  
171 35.3 29.7 44.5  
170 23.9 19.6 29.4



#49  
Dimethylphthalate  
Concen: 6.375 ng  
RT: 9.74 min Scan# 1259  
Delta R.T. -0.02 min  
Lab File: BF108689.D  
Acq: 31 Aug 2018 15:19

Tgt Ion:163 Resp: 86005  
Ion Ratio Lower Upper  
163 100  
194 4.1 2.7 4.1#  
164 10.1 8.2 12.2

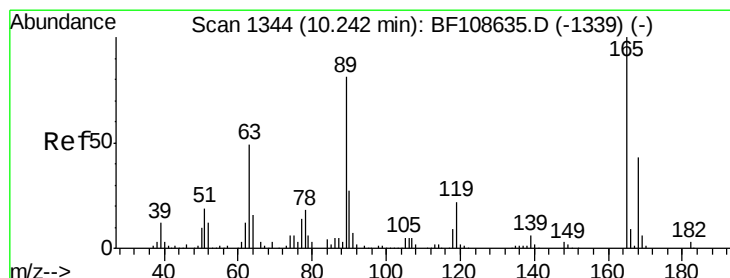
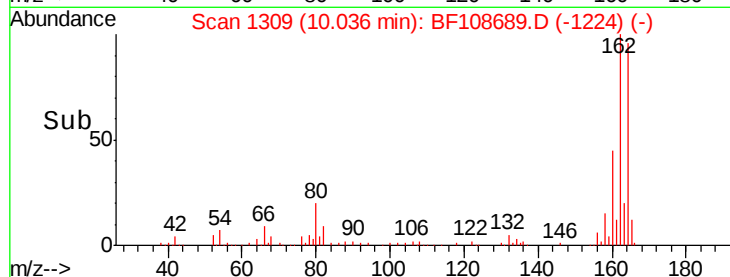
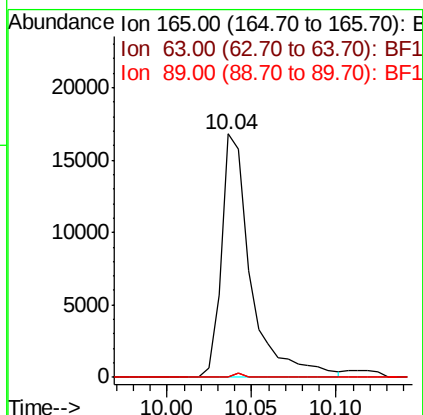
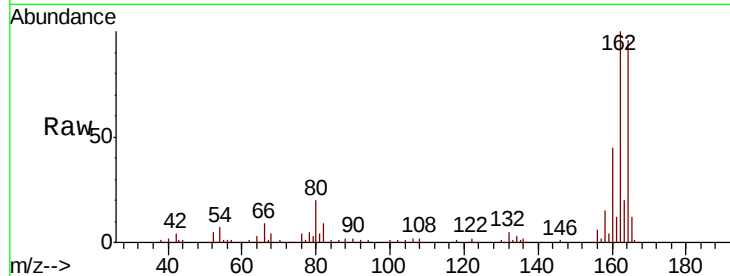




#50  
 2,6-Dinitrotoluene  
 Concen: 6.866 ng  
 RT: 10.04 min Scan# 1309  
 Delta R.T. 0.20 min  
 Lab File: BF108689.D  
 Acq: 31 Aug 2018 15:19

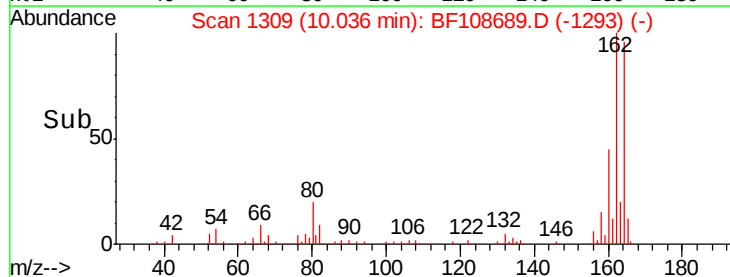
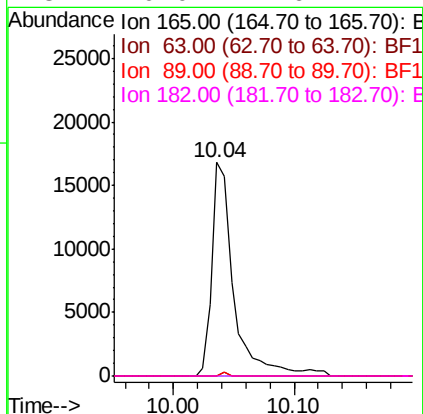
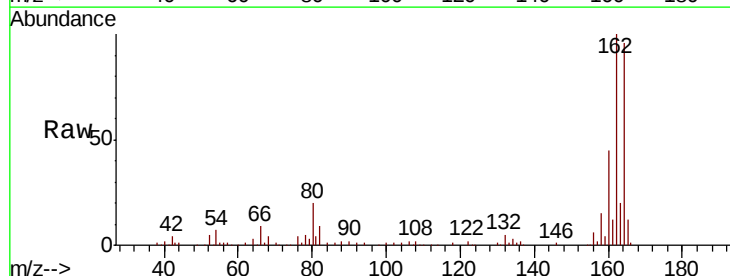
Instrument :  
 BNA\_F  
 ClientSampleId :

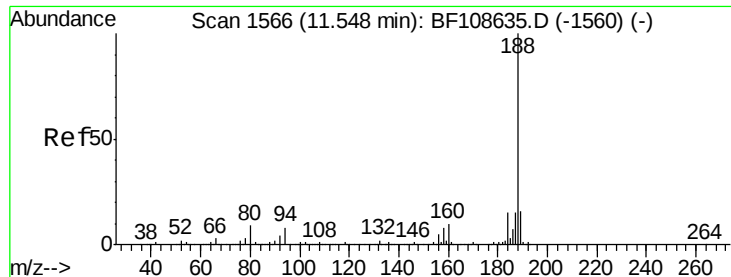
Tot Ion:165 Resp: 20418  
 Ion Ratio Lower Upper  
 165 100  
 63 0.0 44.7 67.1#  
 89 0.0 44.0 66.0#



#56  
 2,4-Dinitrotoluene  
 Concen: 5.340 ng  
 RT: 10.04 min Scan# 1309  
 Delta R.T. -0.21 min  
 Lab File: BF108689.D  
 Acq: 31 Aug 2018 15:19

Tgt Ion:165 Resp: 21024  
 Ion Ratio Lower Upper  
 165 100  
 63 0.0 36.4 54.6#  
 89 0.0 57.8 86.6#  
 182 0.0 1.6 2.4#

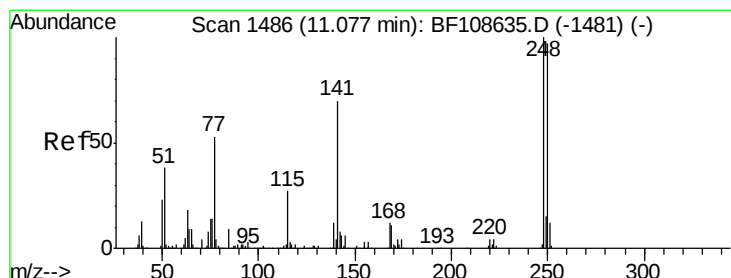
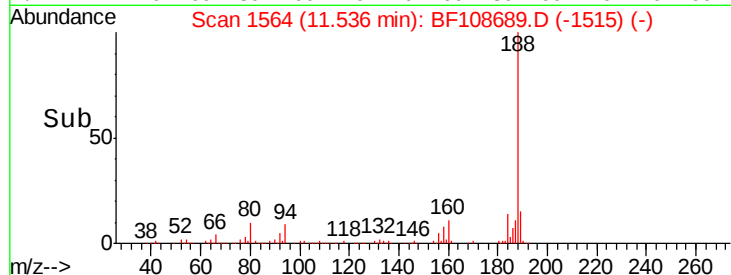
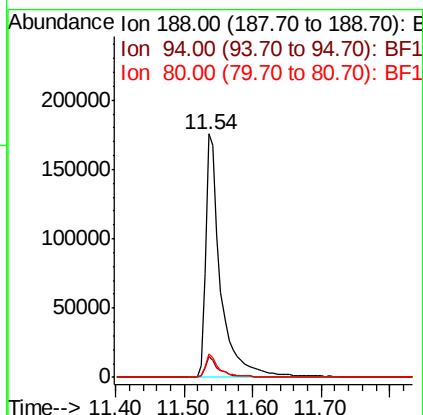
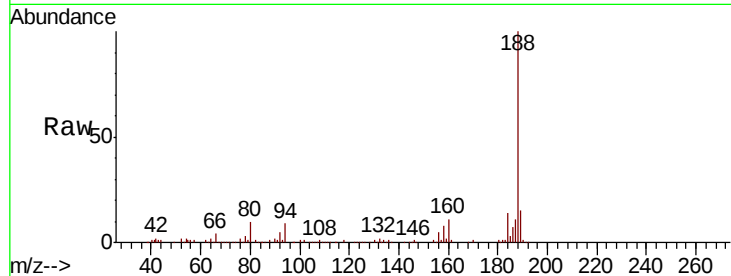




#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.54 min Scan# 1564  
Delta R.T. -0.01 min  
Lab File: BF108689.D  
Acq: 31 Aug 2018 15:19

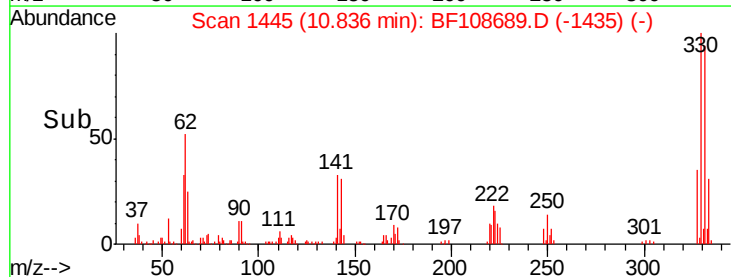
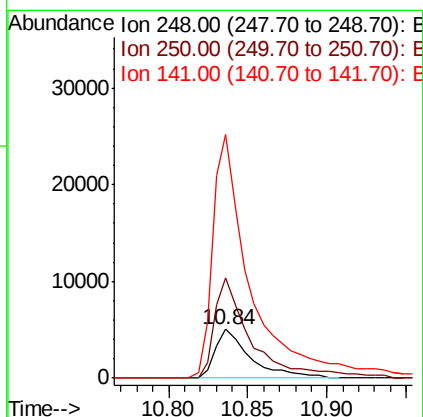
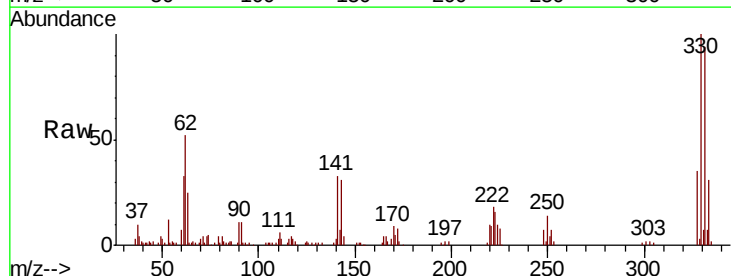
Instrument :  
BNA\_F  
ClientSampleId :

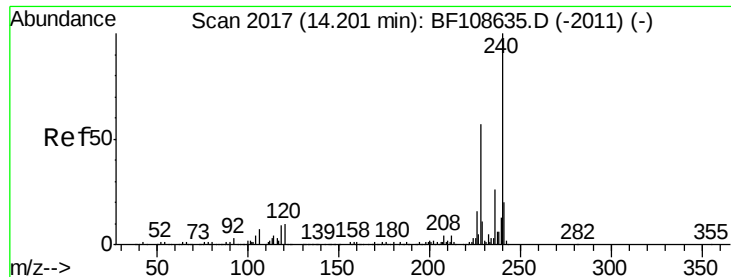
Tot Ion:188 Resp: 272352  
Ion Ratio Lower Upper  
188 100  
94 8.5 8.5 12.7  
80 9.7 9.2 13.8



#66  
4-Bromophenyl-phenylether  
Concen: 2.361 ng  
RT: 10.84 min Scan# 1445  
Delta R.T. -0.24 min  
Lab File: BF108689.D  
Acq: 31 Aug 2018 15:19

Tgt Ion:248 Resp: 7903  
Ion Ratio Lower Upper  
248 100  
250 207.4 76.9 115.3#  
141 502.4 74.4 111.6#





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.19 min Scan# 2016

Delta R.T. -0.01 min

Lab File: BF108689.D

Acq: 31 Aug 2018 15:19

Instrument :

BNA\_F

ClientSampleId :

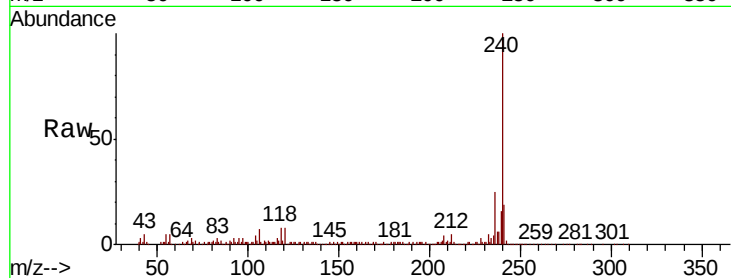
Tot Ion:240 Resp: 231141

Ion Ratio Lower Upper

240 100

120 7.9 9.5 14.3#

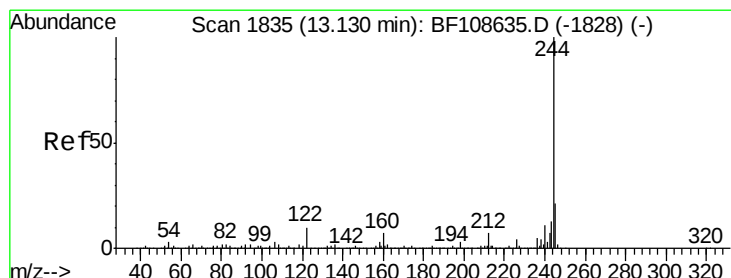
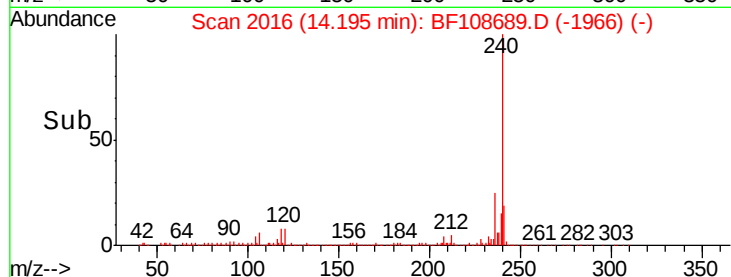
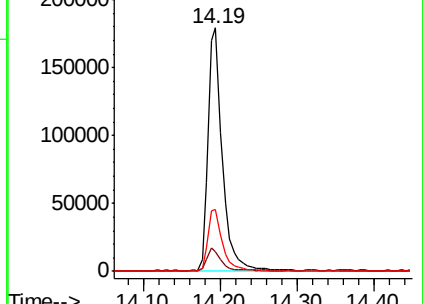
236 25.5 20.7 31.1



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: 43.810 ng

RT: 13.12 min Scan# 1833

Delta R.T. -0.01 min

Lab File: BF108689.D

Acq: 31 Aug 2018 15:19

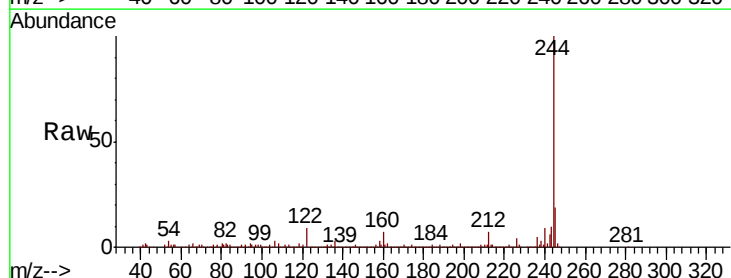
Tgt Ion:244 Resp: 521182

Ion Ratio Lower Upper

244 100

212 7.0 5.4 8.0

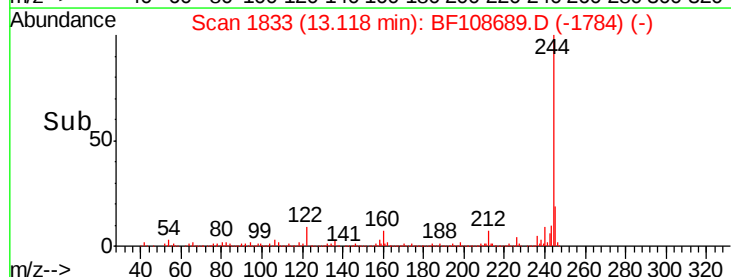
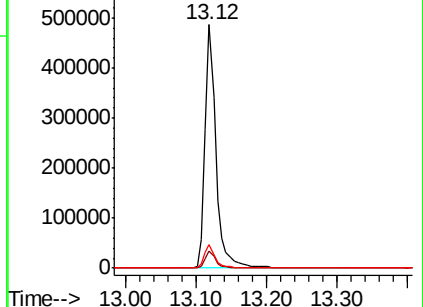
122 9.5 11.0 16.4#

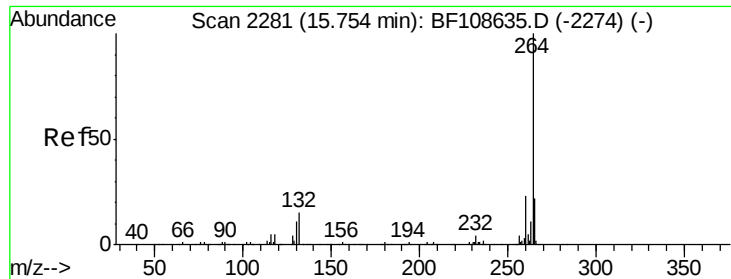


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

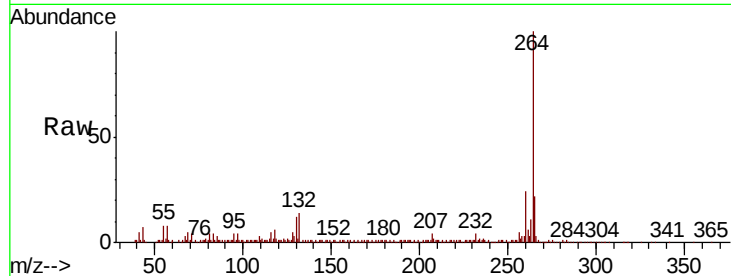




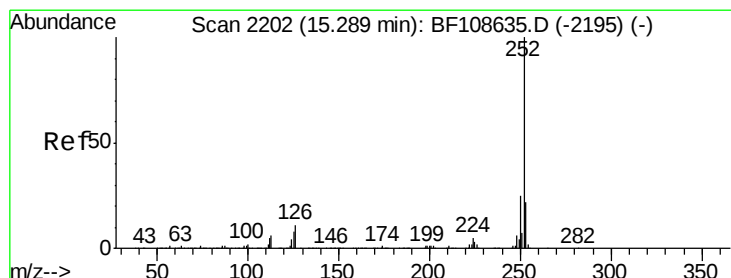
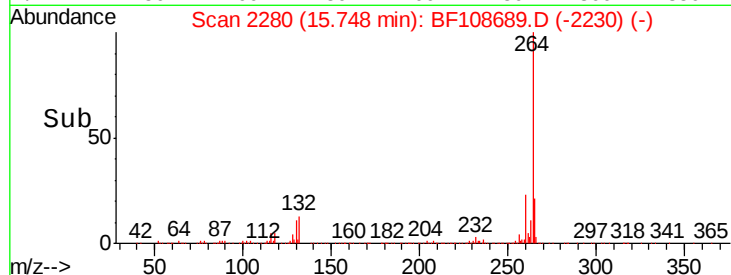
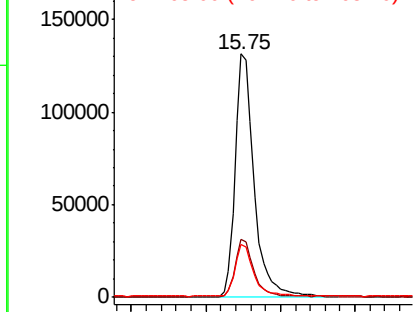
#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.75 min Scan# 2280  
Delta R.T. -0.01 min  
Lab File: BF108689.D  
Acq: 31 Aug 2018 15:19

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.6  | 19.2  | 28.8  |
| 265     | 21.7  | 17.5  | 26.3  |

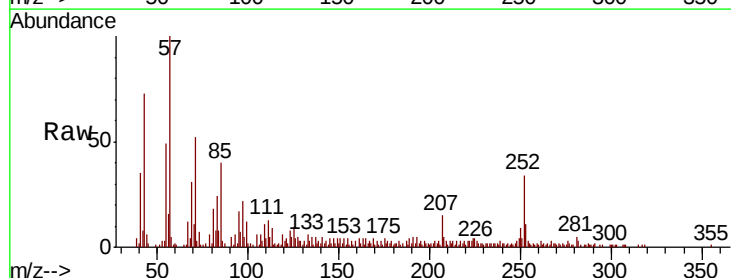


Abundance Ion 264.00 (263.70 to 264.70): E  
Ion 260.00 (259.70 to 260.70): E  
Ion 265.00 (264.70 to 265.70): E

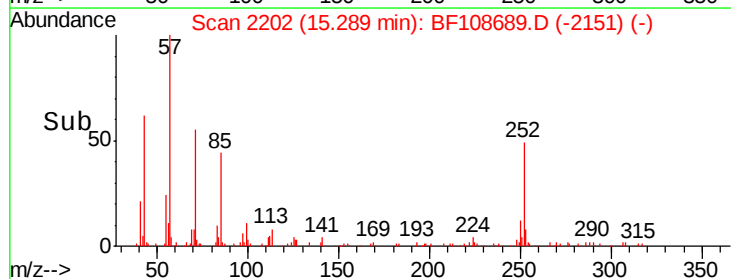
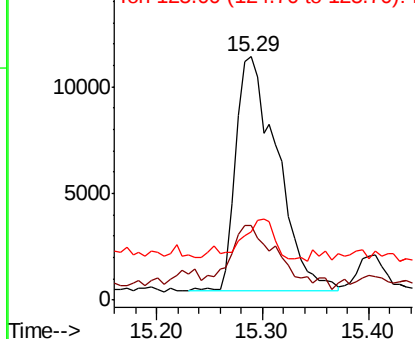


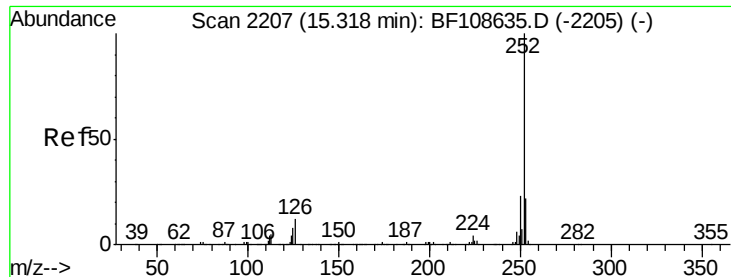
#87  
Benzo(b)fluoranthene  
Concen: 2.050 ng  
RT: 15.29 min Scan# 2202  
Delta R.T. -0.00 min  
Lab File: BF108689.D  
Acq: 31 Aug 2018 15:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 30.8  | 17.0  | 25.6# |
| 125     | 28.3  | 9.0   | 13.6# |



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

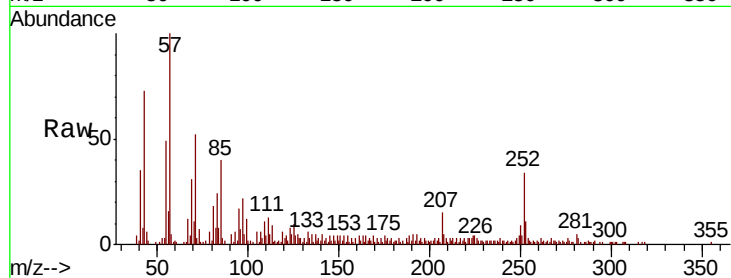




#88  
 Benzo(k)fluoranthene  
 Concen: 2.069 ng  
 RT: 15.29 min Scan# 2202  
 Delta R.T. -0.03 min  
 Lab File: BF108689.D  
 Acq: 31 Aug 2018 15:19

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 30.8  | 17.9  | 26.9  |
| 125     | 28.3  | 10.2  | 15.2  |



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

