

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF030619\  
 Data File : BF112902.D  
 Acq On : 7 Mar 2019 1:10  
 Operator : JU/SJ  
 Sample : K1705-06  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 EXT-028-SW008-022719

Quant Time: Mar 07 04:52:35 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF022719.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Mar 01 15:40:43 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.73  | 152  | 223872   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.01  | 136  | 798461   | 20.00 | ng    | -0.01    |
| 39) Acenaphthene-d10      | 9.76  | 164  | 337823   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 11.24 | 188  | 619255   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 13.86 | 240  | 582747   | 20.00 | ng    | -0.01    |
| 87) Perylene-d12          | 15.26 | 264  | 642837   | 20.00 | ng    | -0.01    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.35  | 112  | 1515740  | 105.32 | ng    | 0.00     |
| 7) Phenol-d6                | 6.37  | 99   | 1902797  | 105.25 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.29  | 82   | 1163326  | 87.18  | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol    | 10.55 | 330  | 458551   | 127.86 | ng    | -0.01    |
| 45) 2-Fluorobiphenyl        | 9.09  | 172  | 1762306  | 86.96  | ng    | -0.01    |
| 79) Terphenyl-d14           | 12.82 | 244  | 1603705  | 53.35  | ng    | -0.01    |

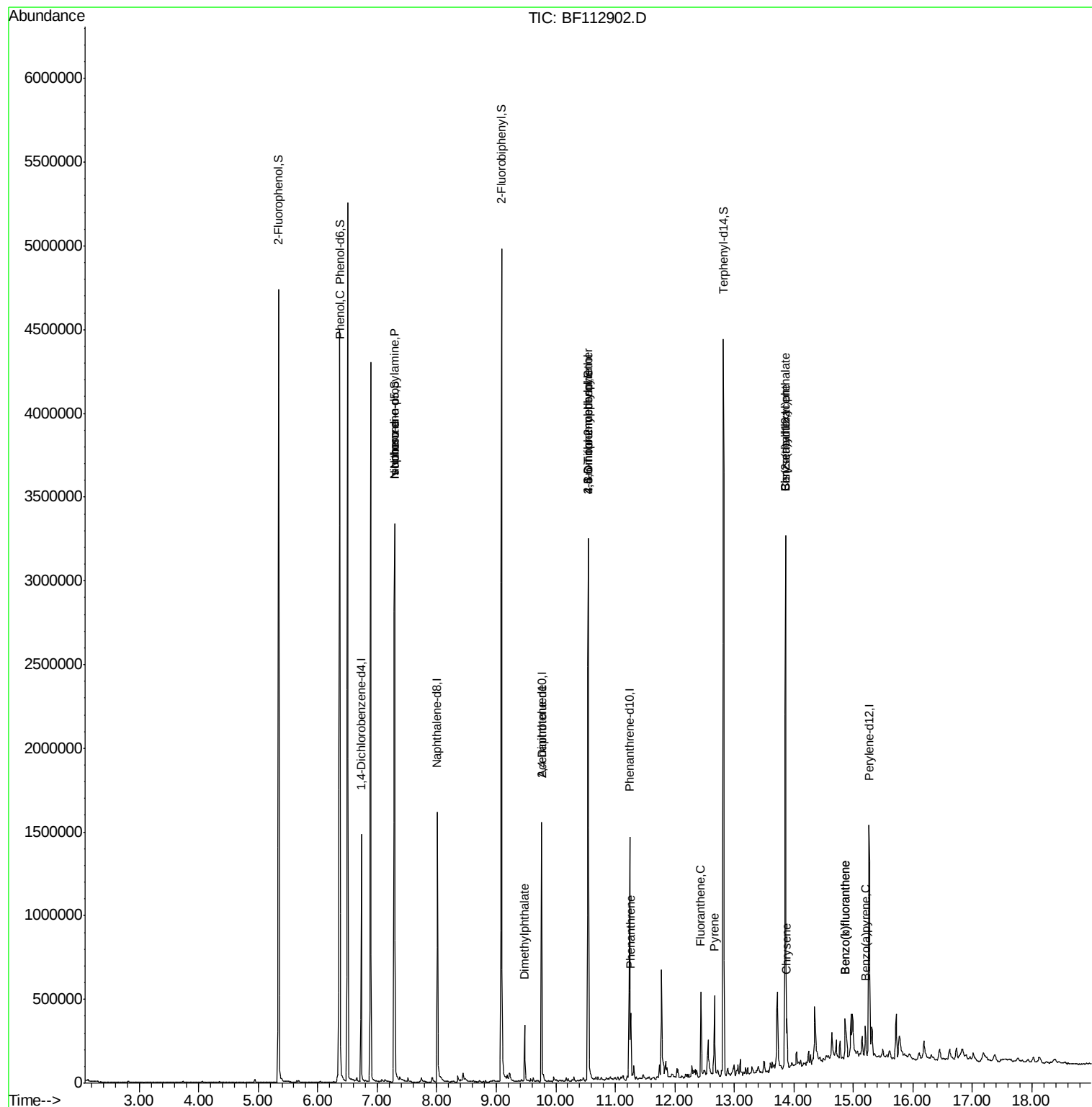
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 10) Phenol                     | 6.38  | 94   | 139885   | 6.631  | ng    | 90     |
| 19) n-Nitroso-di-n-propylamine | 7.29  | 70   | 153411   | 13.399 | ng    | # 74   |
| 25) Isophorone                 | 7.29  | 82   | 1154742  | 40.169 | ng    | # 66   |
| 50) Dimethylphthalate          | 9.48  | 163  | 150361   | 6.036  | ng    | 99     |
| 57) 2,4-Dinitrotoluene         | 9.76  | 165  | 41839    | 6.489  | ng    | # 18   |
| 65) 4,6-Dinitro-2-methylphenol | 10.55 | 198  | 794      | 4.895  | ng    | # 1    |
| 67) 4-Bromophenyl-phenylether  | 10.55 | 248  | 26211    | 4.018  | ng    | # 1    |
| 71) Phenanthrene               | 11.26 | 178  | 137687   | 4.469  | ng    | 97     |
| 75) Fluoranthene               | 12.44 | 202  | 215277   | 6.522  | ng    | 98     |
| 78) Pyrene                     | 12.67 | 202  | 194601   | 3.961  | ng    | 98     |
| 81) Benzo(a)anthracene         | 13.85 | 228  | 101013   | 2.501  | ng    | 97     |
| 83) Chrysene                   | 13.89 | 228  | 105999   | 2.679  | ng    | 97     |
| 84) Bis(2-ethylhexyl)phthalate | 13.86 | 149  | 443001   | 17.417 | ng    | 99     |
| 88) Benzo(b)fluoranthene       | 14.86 | 252  | 168437   | 4.051  | ng    | 100    |
| 89) Benzo(k)fluoranthene       | 14.86 | 252  | 168437   | 4.472  | ng    | 99     |
| 90) Benzo(a)pyrene             | 15.20 | 252  | 84784    | 2.305  | ng    | 97     |

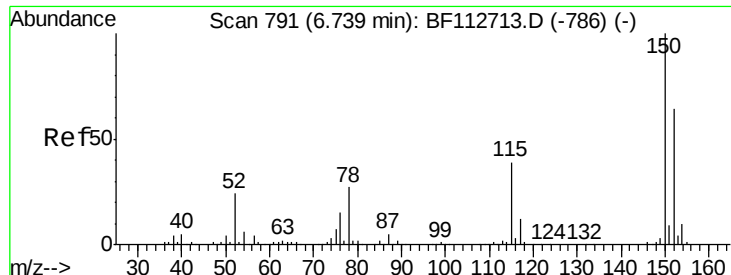
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF030619\  
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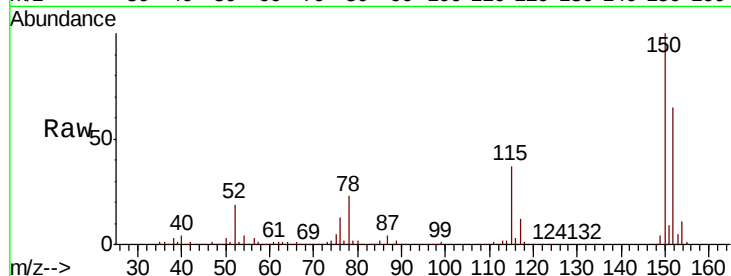


#1

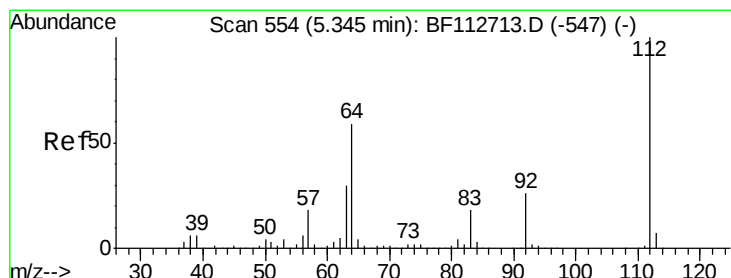
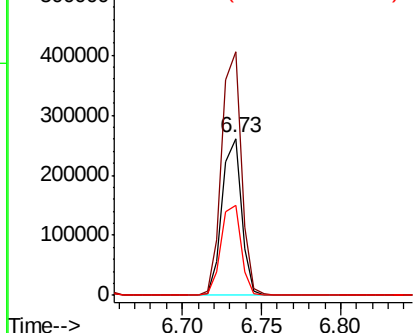
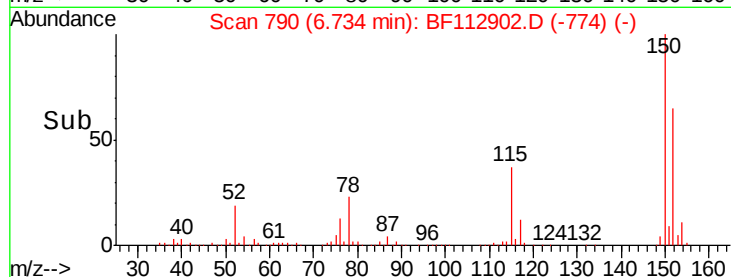
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.73 min Scan# 790  
Delta R.T. -0.01 min  
Lab File: BF112902.D  
Acq: 7 Mar 2019 1:10

Instrument :  
BNA\_F  
ClientSampleId :  
EXT-028-SW008-022719

Tgt Ion:152 Resp: 223872  
Ion Ratio Lower Upper  
152 100  
150 154.9 124.2 186.2  
115 56.9 48.2 72.4



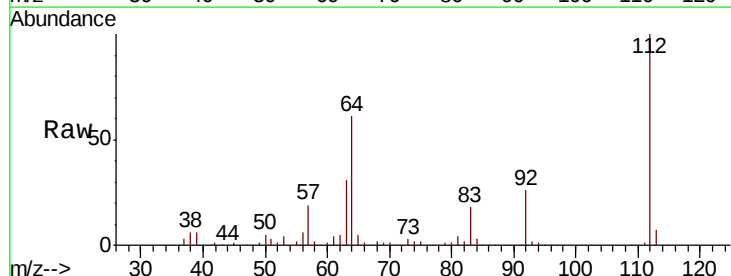
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



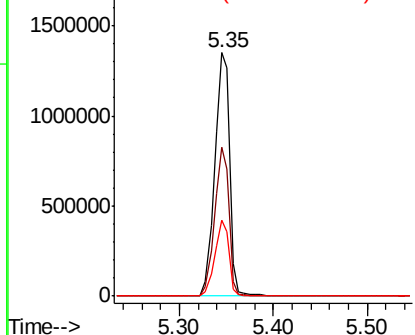
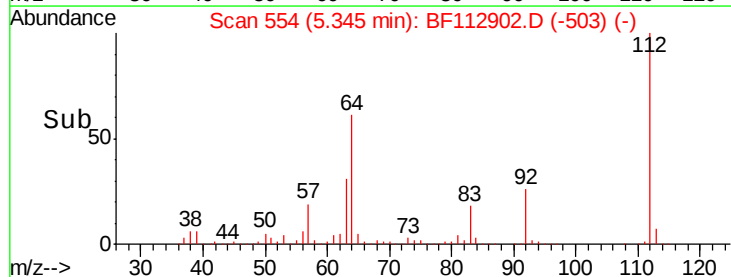
#5

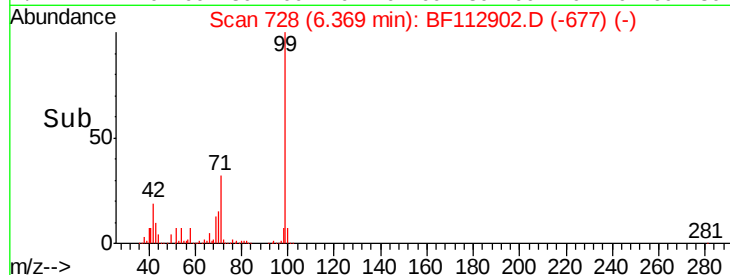
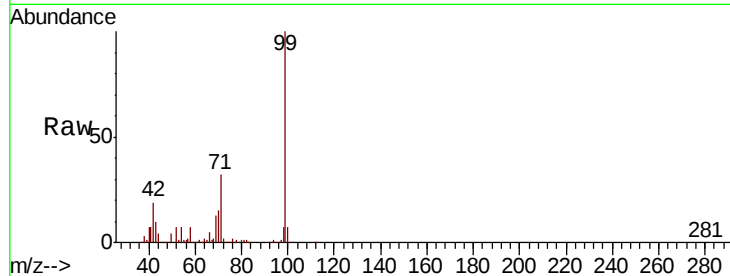
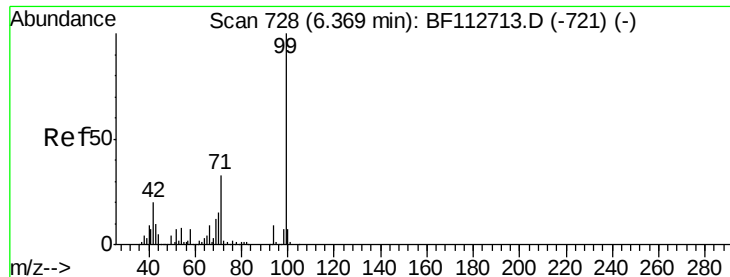
2-Fluorophenol  
Concen: 105.319 ng  
RT: 5.35 min Scan# 554  
Delta R.T. -0.00 min  
Lab File: BF112902.D  
Acq: 7 Mar 2019 1:10

Tgt Ion:112 Resp: 1515740  
Ion Ratio Lower Upper  
112 100  
64 61.3 47.6 71.4  
63 31.3 24.4 36.6



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: 105.252 ng

RT: 6.37 min Scan# 728

Delta R.T. -0.00 min

Lab File: BF112902.D

Acq: 7 Mar 2019 1:10

Instrument :

BNA\_F

ClientSampleId :

EXT-028-SW008-022719

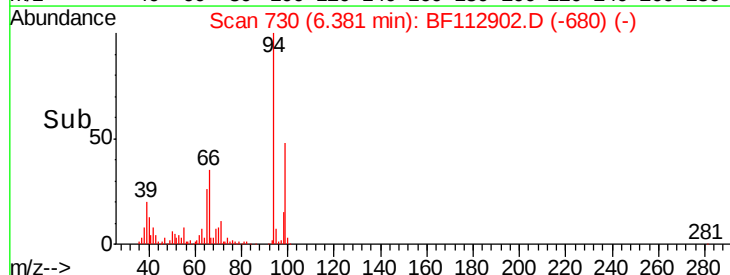
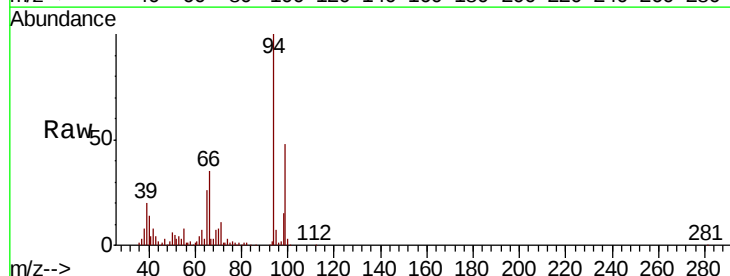
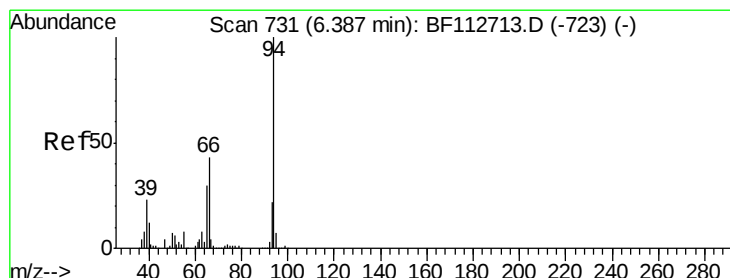
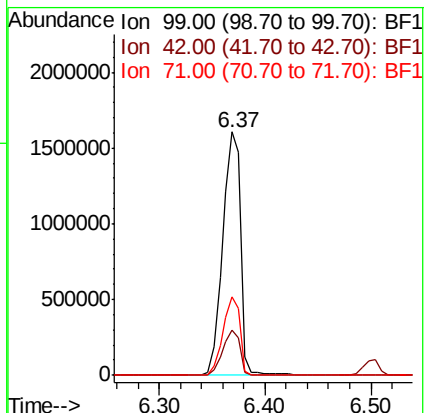
Tgt Ion: 99 Resp: 1902797

Ion Ratio Lower Upper

99 100

42 18.7 16.3 24.5

71 32.1 26.2 39.4



#10

Phenol

Concen: 6.631 ng

RT: 6.38 min Scan# 730

Delta R.T. -0.01 min

Lab File: BF112902.D

Acq: 7 Mar 2019 1:10

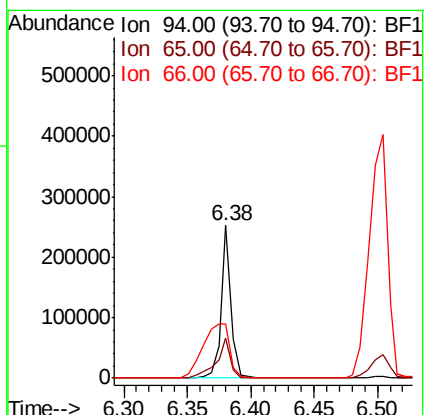
Tgt Ion: 94 Resp: 139885

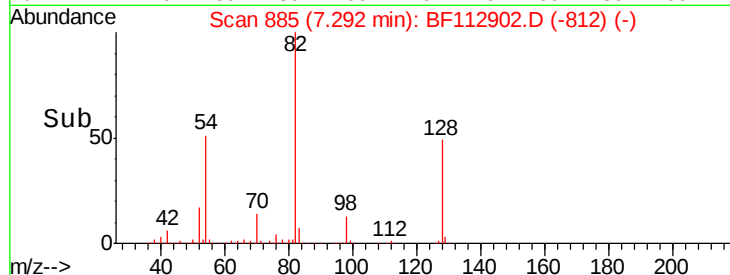
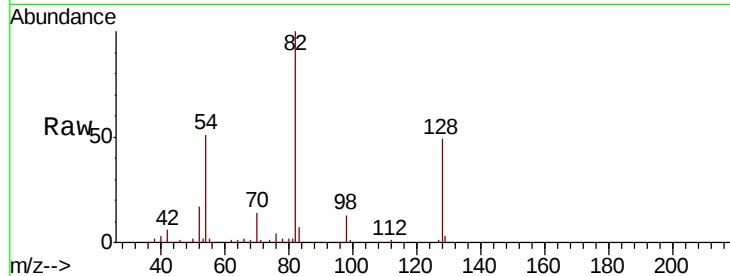
Ion Ratio Lower Upper

94 100

65 26.4 10.5 50.5

66 35.3 22.6 62.6

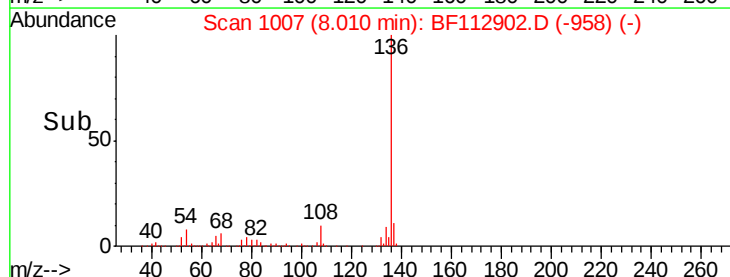
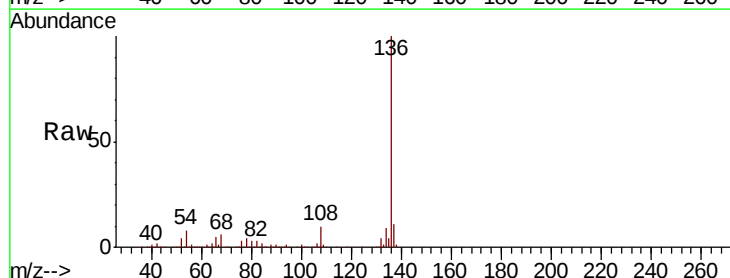
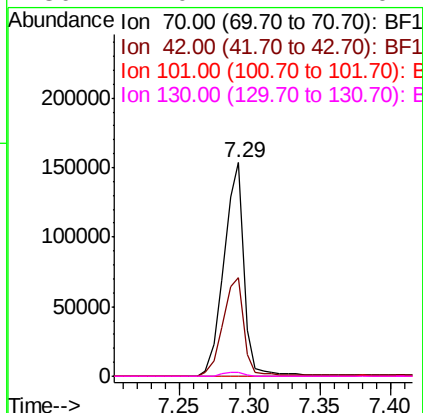




#19  
n-Nitroso-di-n-propylamine  
Concen: 13.399 ng  
RT: 7.29 min Scan# 885  
Delta R.T. 0.13 min  
Lab File: BF112902.D  
Acq: 7 Mar 2019 1:10

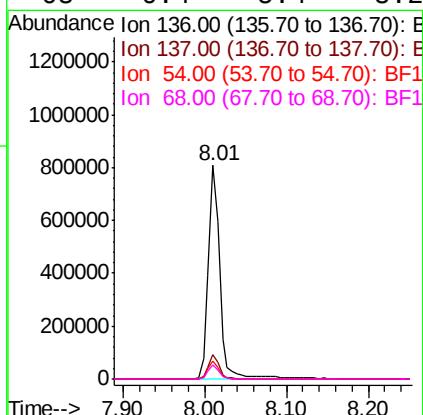
Instrument :  
BNA\_F  
ClientSampleId :  
EXT-028-SW008-022719

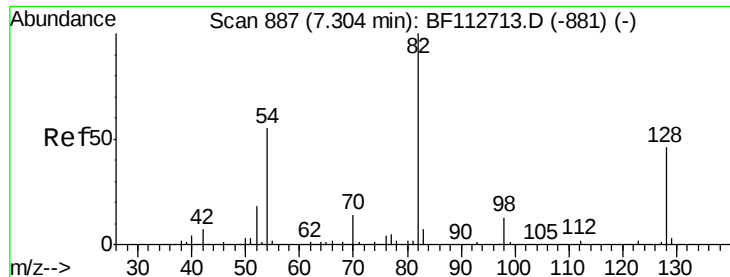
Tgt Ion: 70 Resp: 153411  
Ion Ratio Lower Upper  
70 100  
42 46.3 49.9 74.9#  
101 0.0 7.4 11.2#  
130 2.0 17.4 26.2#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.01 min Scan# 1007  
Delta R.T. -0.01 min  
Lab File: BF112902.D  
Acq: 7 Mar 2019 1:10

Tgt Ion: 136 Resp: 798461  
Ion Ratio Lower Upper  
136 100  
137 11.1 8.9 13.3  
54 8.4 7.3 10.9  
68 6.4 5.4 8.2

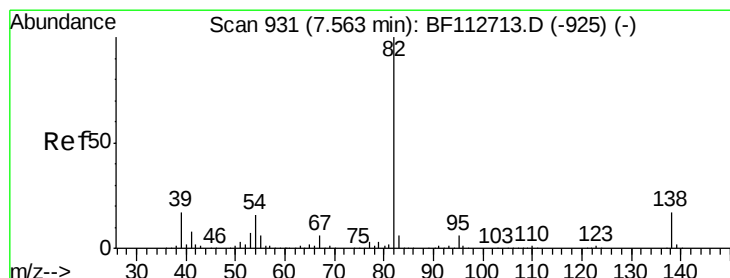
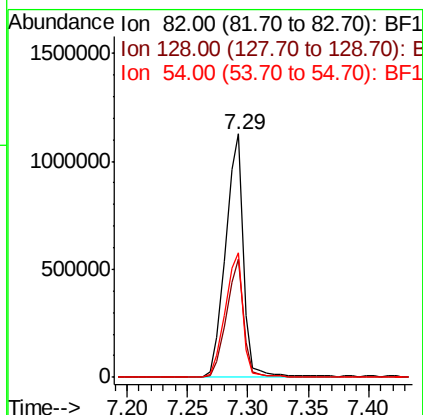
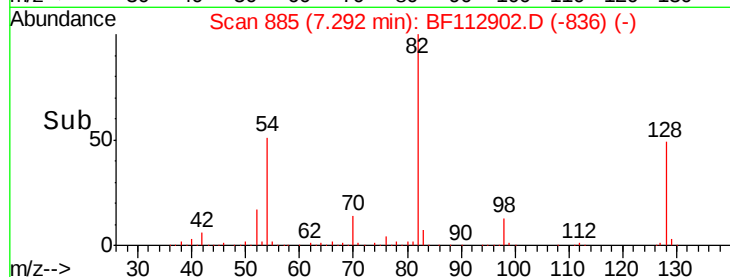
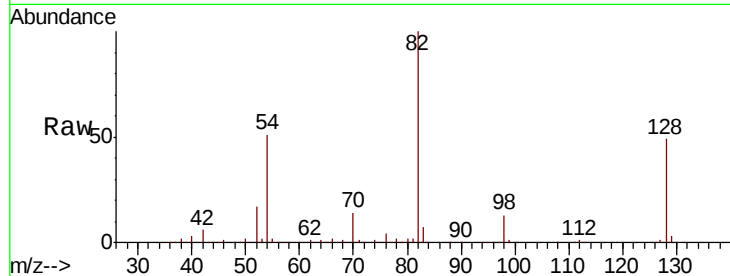




#23  
Nitrobenzene-d5  
Concen: 87.182 ng  
RT: 7.29 min Scan# 885  
Delta R.T. -0.01 min  
Lab File: BF112902.D  
Acq: 7 Mar 2019 1:10

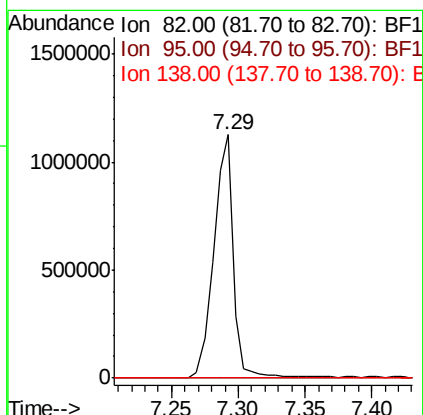
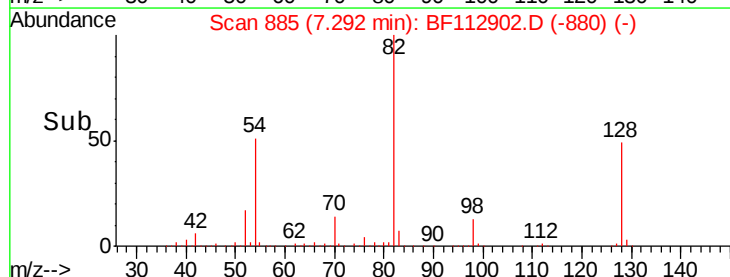
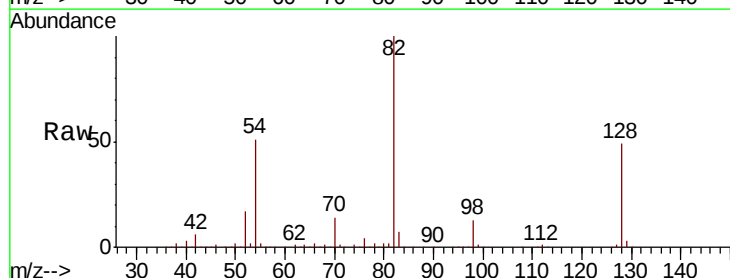
Instrument :  
BNA\_F  
ClientSampleId :  
EXT-028-SW008-022719

Tgt Ion: 82 Resp: 1163326  
Ion Ratio Lower Upper  
82 100  
128 48.8 36.3 54.5  
54 51.4 43.7 65.5



#25  
Isophorone  
Concen: 40.169 ng  
RT: 7.29 min Scan# 885  
Delta R.T. -0.27 min  
Lab File: BF112902.D  
Acq: 7 Mar 2019 1:10

Tgt Ion: 82 Resp: 1154742  
Ion Ratio Lower Upper  
82 100  
95 0.0 5.2 7.8#  
138 0.0 13.8 20.8#

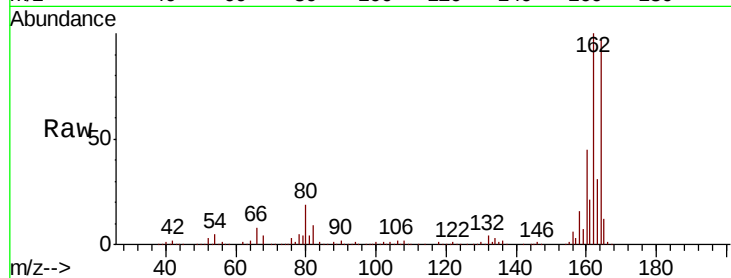




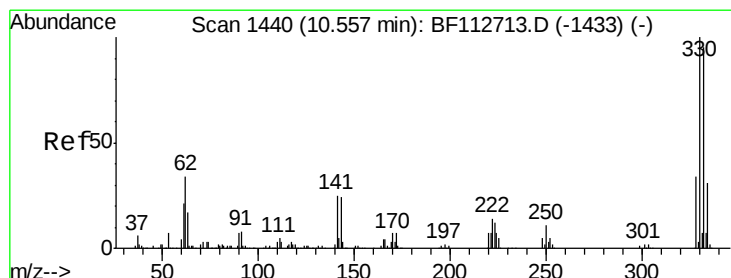
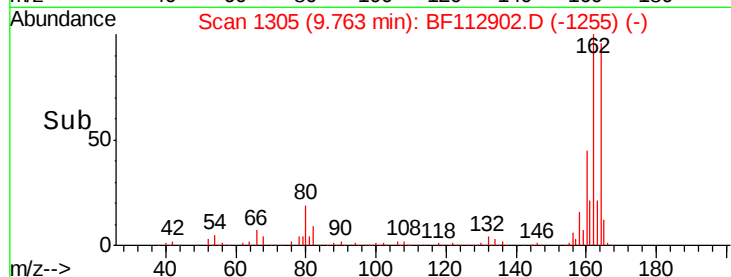
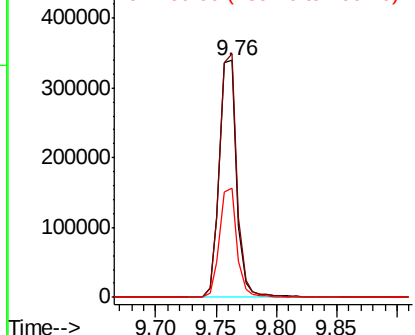
#39  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.76 min Scan# 1305  
 Delta R.T. -0.01 min  
 Lab File: BF112902.D  
 Acq: 7 Mar 2019 1:10

Instrument :  
 BNA\_F  
 ClientSampleId :  
 EXT-028-SW008-022719

Tgt Ion:164 Resp: 337823  
 Ion Ratio Lower Upper  
 164 100  
 162 102.7 80.6 120.8  
 160 46.0 36.0 54.0

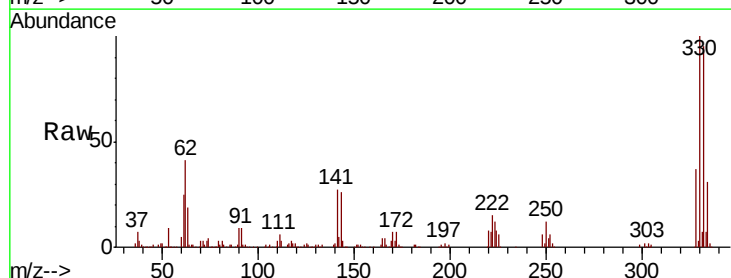


Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E

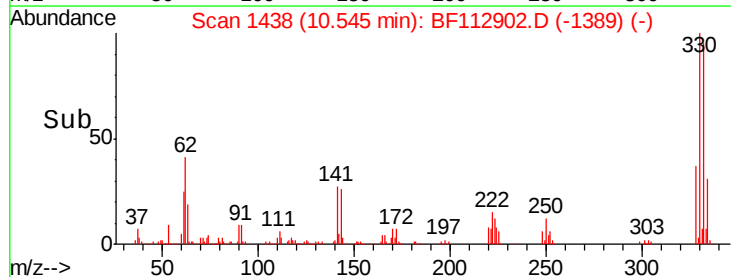
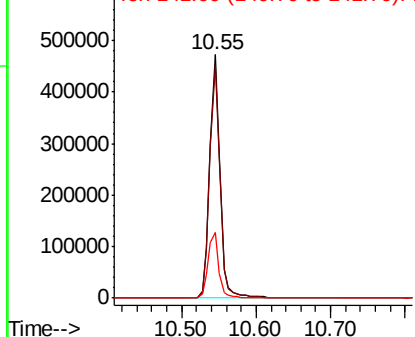


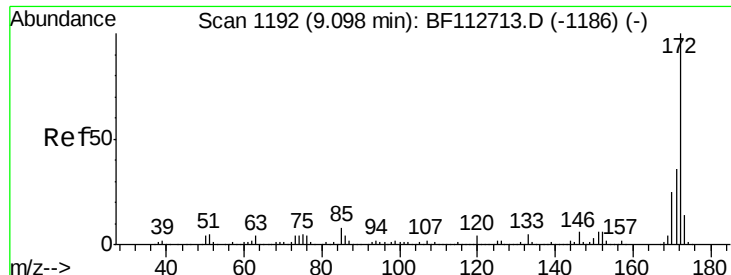
#42  
 2,4,6-Tribromophenol  
 Concen: 127.858 ng  
 RT: 10.55 min Scan# 1438  
 Delta R.T. -0.01 min  
 Lab File: BF112902.D  
 Acq: 7 Mar 2019 1:10

Tgt Ion:330 Resp: 458551  
 Ion Ratio Lower Upper  
 330 100  
 332 96.6 76.2 114.4  
 141 28.4 27.0 40.6



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

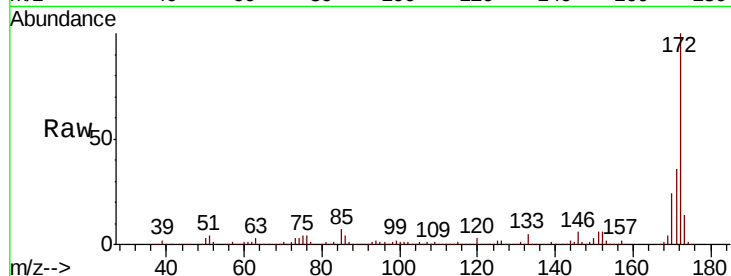




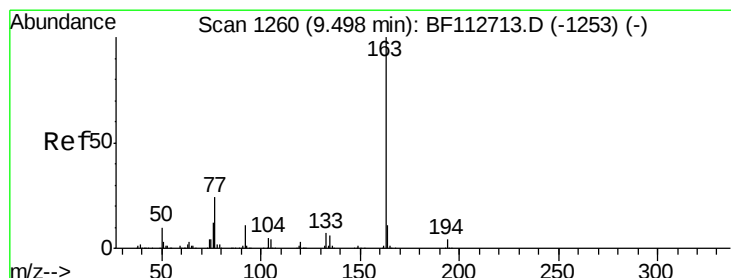
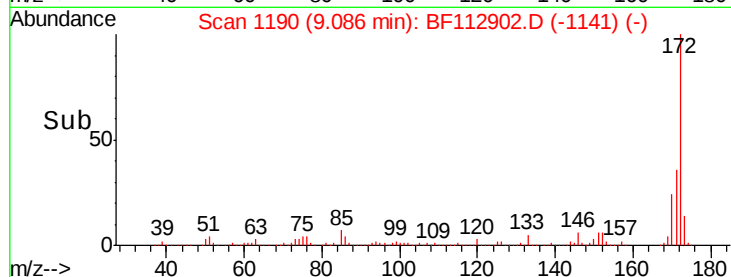
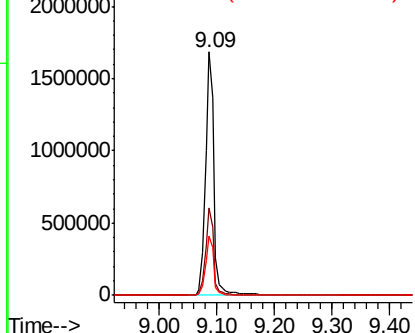
#45  
 2-Fluorobiphenyl  
 Concen: 86.964 ng  
 RT: 9.09 min Scan# 1190  
 Delta R.T. -0.01 min  
 Lab File: BF112902.D  
 Acq: 7 Mar 2019 1:10

Instrument :  
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Tgt Ion:172 Resp: 1762306  
 Ion Ratio Lower Upper  
 172 100  
 171 36.0 29.0 43.4  
 170 24.4 20.0 30.0

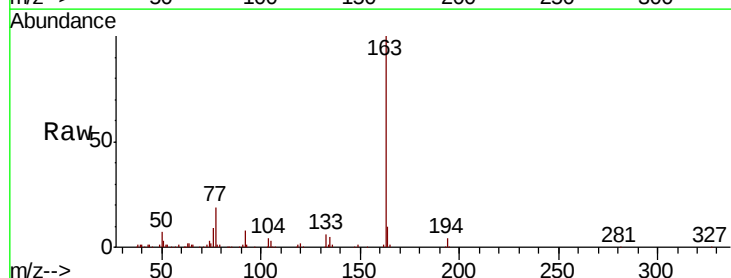


Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

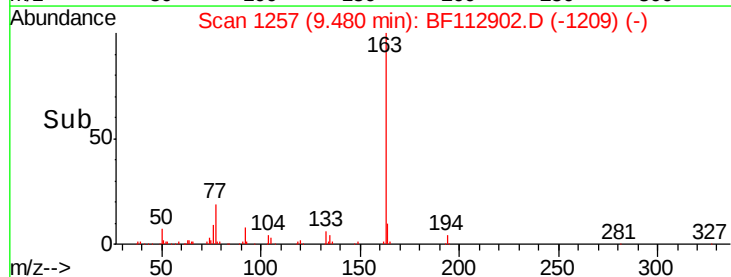
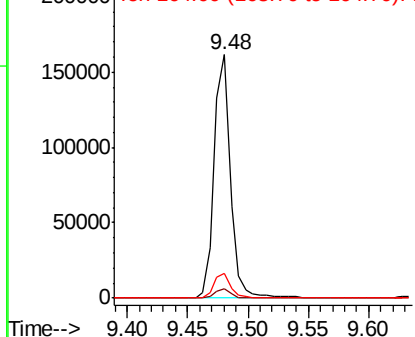


#50  
 Dimethylphthalate  
 Concen: 6.036 ng  
 RT: 9.48 min Scan# 1257  
 Delta R.T. -0.02 min  
 Lab File: BF112902.D  
 Acq: 7 Mar 2019 1:10

Tgt Ion:163 Resp: 150361  
 Ion Ratio Lower Upper  
 163 100  
 194 3.8 3.0 4.4  
 164 10.0 8.4 12.6



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

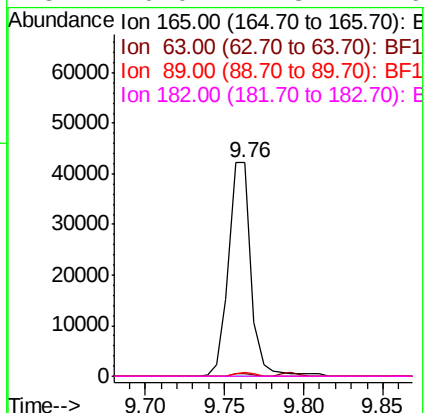
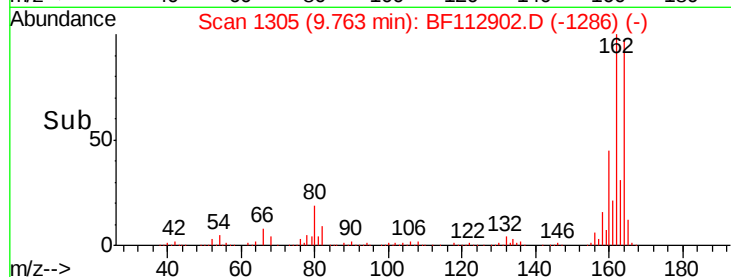
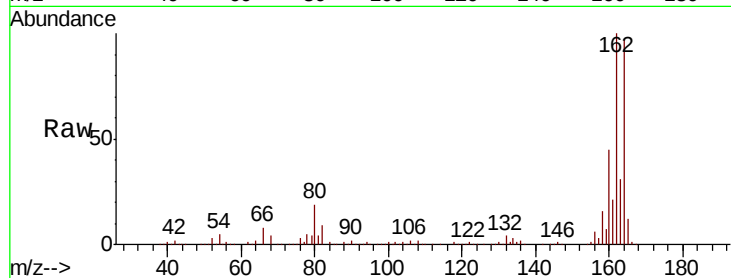




#57  
2,4-Dinitrotoluene  
Concen: 6.489 ng  
RT: 9.76 min Scan# 1305  
Delta R.T. -0.19 min  
Lab File: BF112902.D  
Acq: 7 Mar 2019 1:10

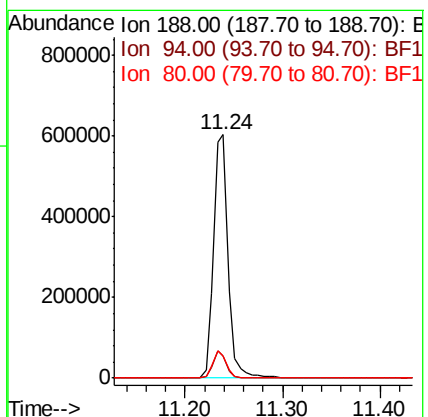
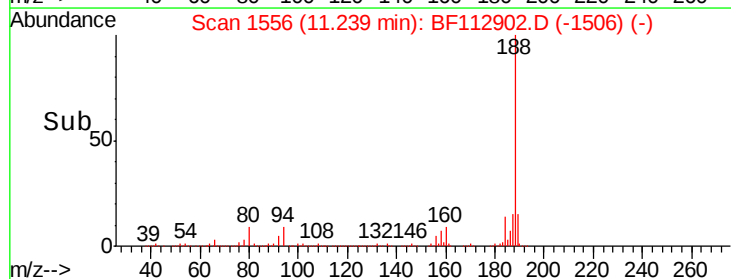
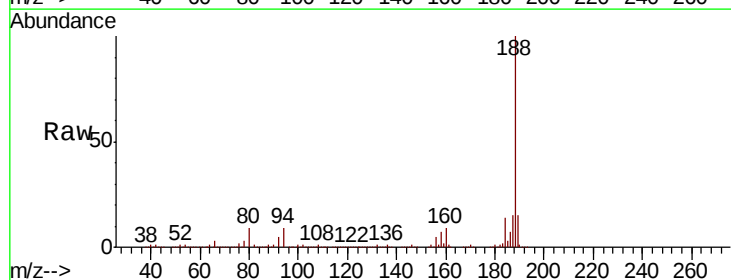
Instrument :  
BNA\_F  
ClientSampleId :  
EXT-028-SW008-022719

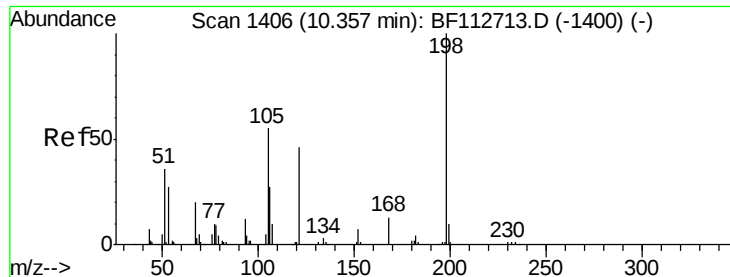
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.3   | 42.2  | 63.2# |
| 89      | 1.9   | 66.2  | 99.4# |
| 182     | 0.0   | 1.8   | 2.6#  |



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.24 min Scan# 1556  
Delta R.T. -0.01 min  
Lab File: BF112902.D  
Acq: 7 Mar 2019 1:10

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 9.4   | 9.0   | 13.4  |
| 80      | 9.3   | 9.2   | 13.8  |





#65

4,6-Dinitro-2-methylphenol

Concen: 4.895 ng

RT: 10.55 min Scan# 1438

Delta R.T. 0.19 min

Lab File: BF112902.D

Acq: 7 Mar 2019 1:10

Instrument :

BNA\_F

ClientSampleId :

EXT-028-SW008-022719

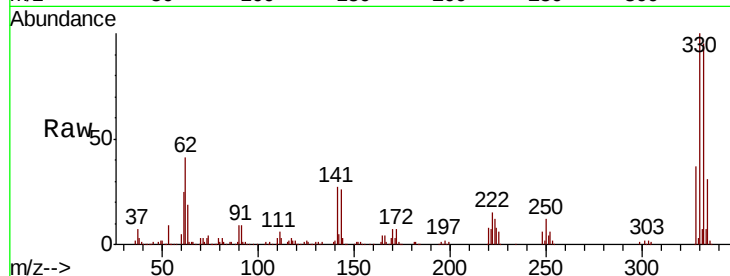
Tgt Ion:198 Resp: 794

Ion Ratio Lower Upper

198 100

51 193.4 43.8 83.8#

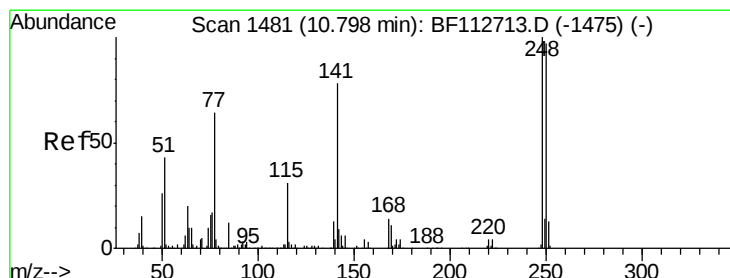
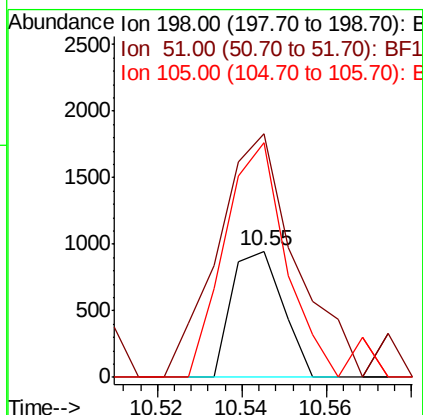
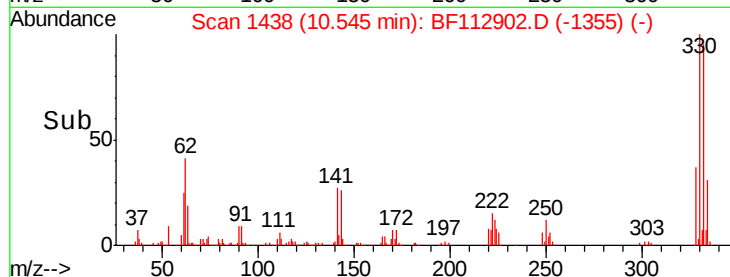
105 186.2 36.5 76.5#



Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF1

Ion 105.00 (104.70 to 105.70): E



#67

4-Bromophenyl-phenylether

Concen: 4.018 ng

RT: 10.55 min Scan# 1438

Delta R.T. -0.25 min

Lab File: BF112902.D

Acq: 7 Mar 2019 1:10

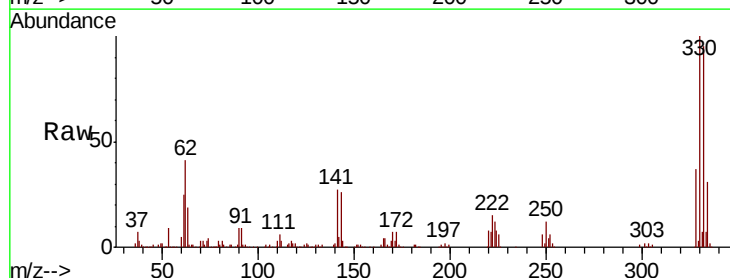
Tgt Ion:248 Resp: 26211

Ion Ratio Lower Upper

248 100

250 195.8 77.5 116.3#

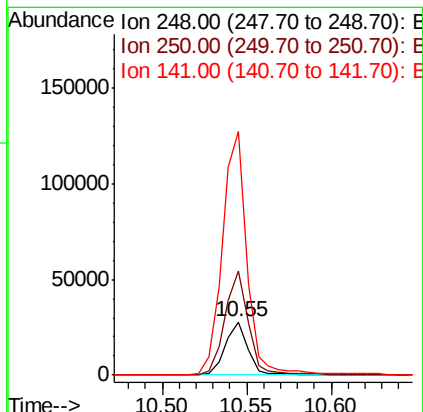
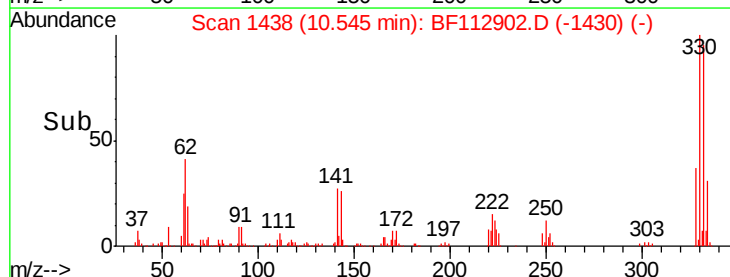
141 456.1 62.4 93.6#

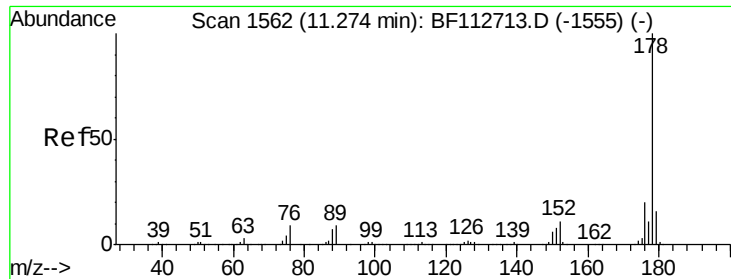


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E

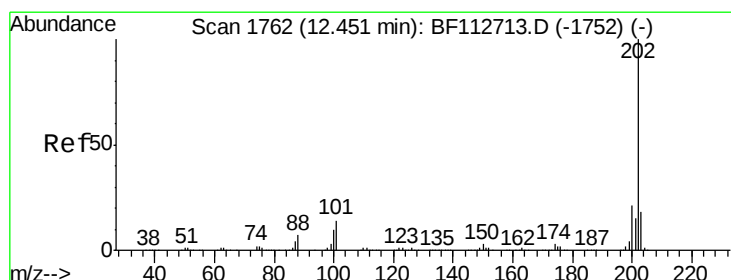
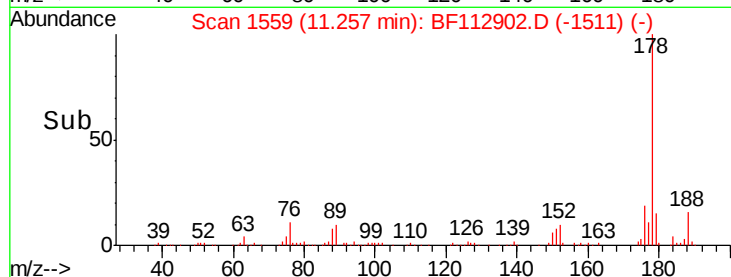
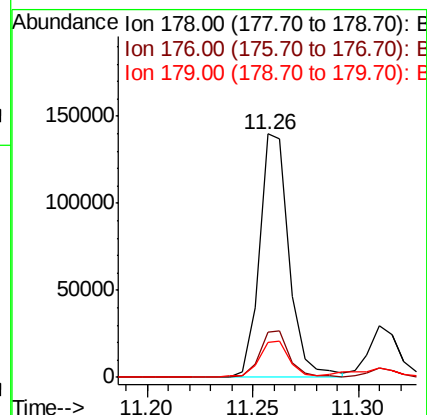
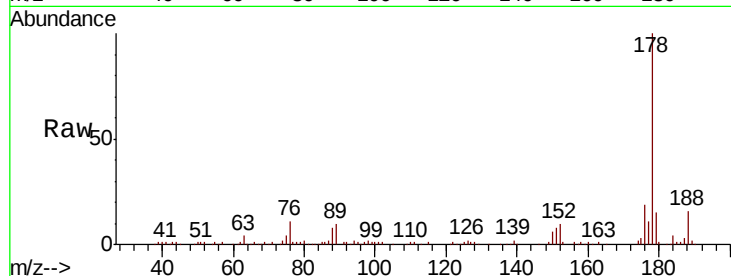




#71  
Phenanthrene  
Concen: 4.469 ng  
RT: 11.26 min Scan# 1559  
Delta R.T. -0.02 min  
Lab File: BF112902.D  
Acq: 7 Mar 2019 1:10

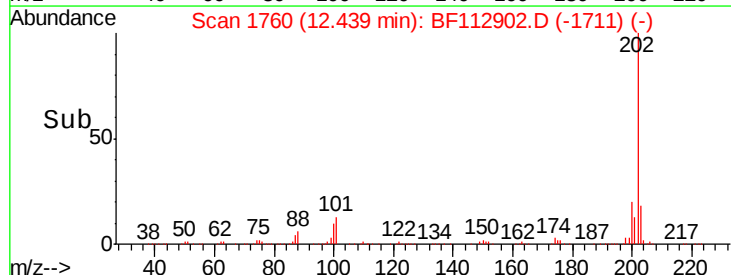
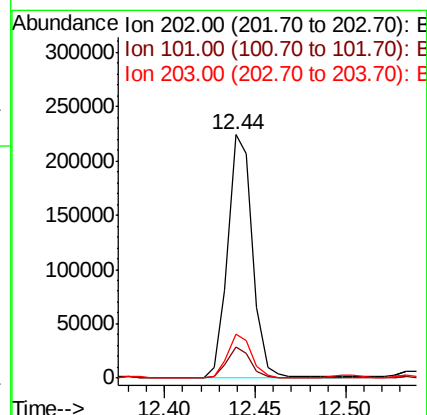
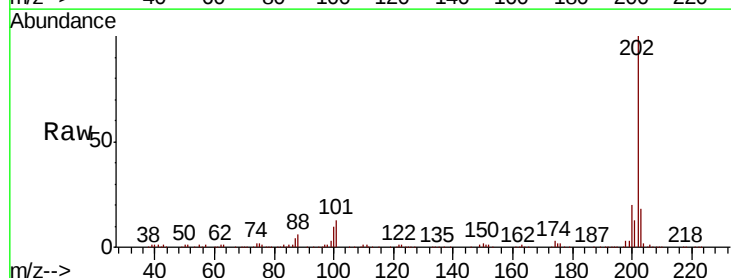
Instrument :  
BNA\_F  
ClientSampleId :  
EXT-028-SW008-022719

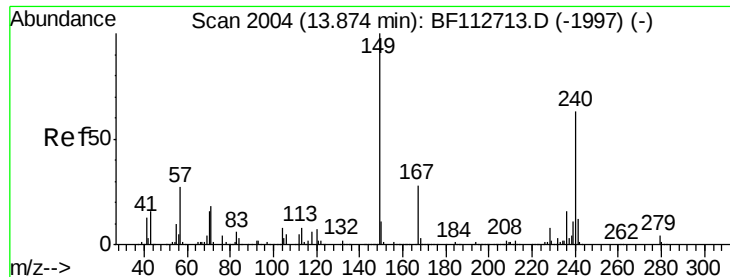
Tgt Ion:178 Resp: 137687  
Ion Ratio Lower Upper  
178 100  
176 18.8 16.3 24.5  
179 14.5 12.7 19.1



#75  
Fluoranthene  
Concen: 6.522 ng  
RT: 12.44 min Scan# 1760  
Delta R.T. -0.01 min  
Lab File: BF112902.D  
Acq: 7 Mar 2019 1:10

Tgt Ion:202 Resp: 215277  
Ion Ratio Lower Upper  
202 100  
101 12.8 0.0 33.8  
203 17.9 0.0 38.4





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.86 min Scan# 2002

Delta R.T. -0.01 min

Lab File: BF112902.D

Acq: 7 Mar 2019 1:10

Instrument :

BNA\_F

ClientSampleId :

EXT-028-SW008-022719

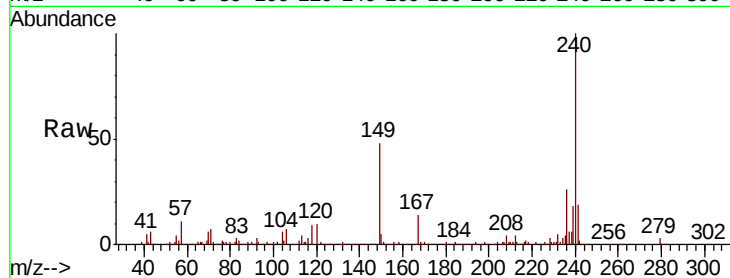
Tgt Ion:240 Resp: 582747

Ion Ratio Lower Upper

240 100

120 10.3 8.9 13.3

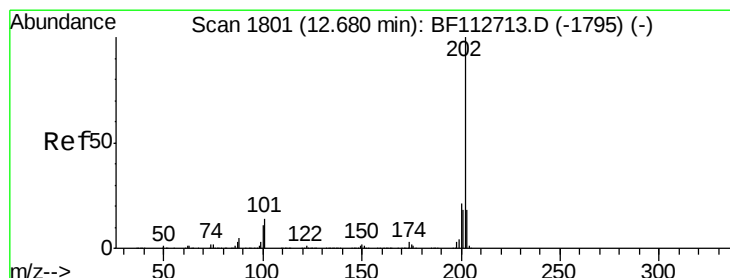
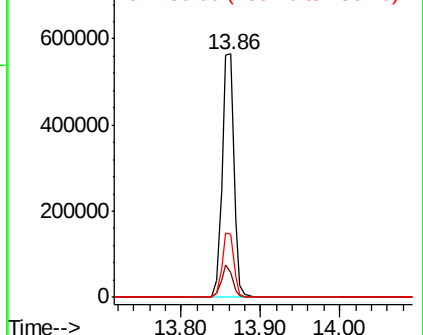
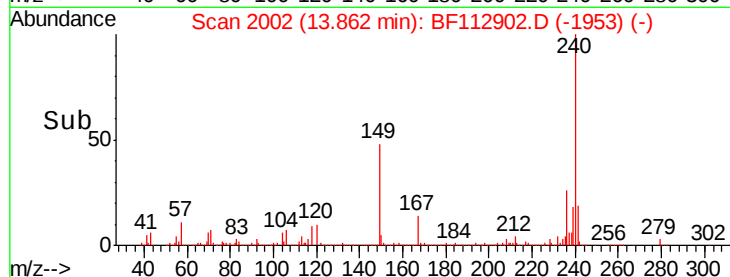
236 26.0 20.7 31.1



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

Pyrene

Concen: 3.961 ng

RT: 12.67 min Scan# 1799

Delta R.T. -0.01 min

Lab File: BF112902.D

Acq: 7 Mar 2019 1:10

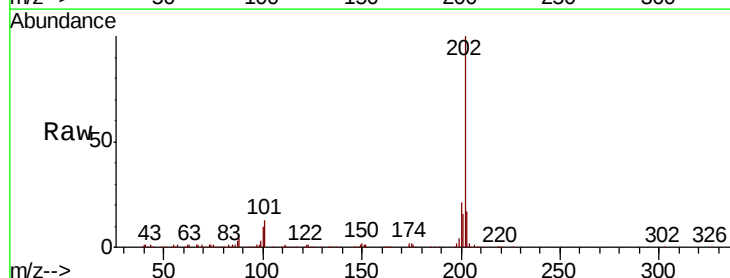
Tgt Ion:202 Resp: 194601

Ion Ratio Lower Upper

202 100

200 20.7 17.0 25.4

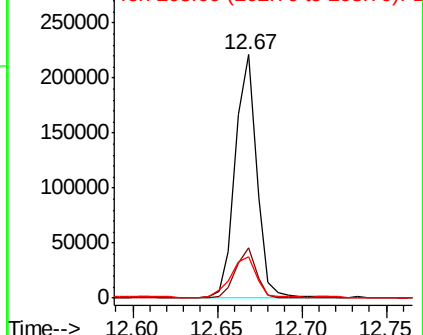
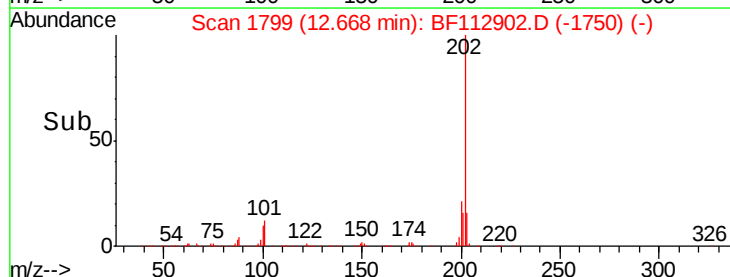
203 17.1 14.4 21.6

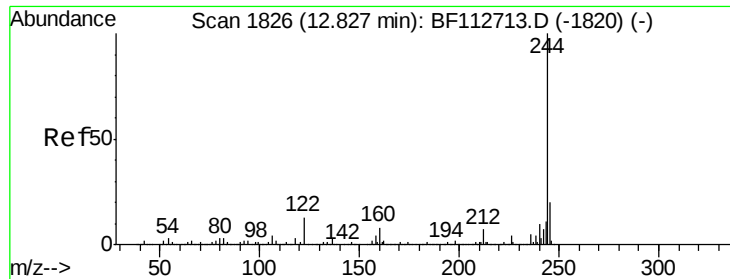


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

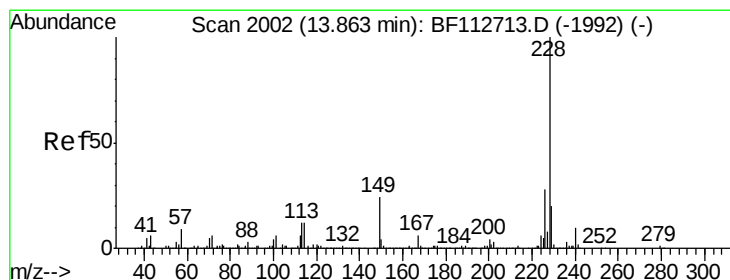
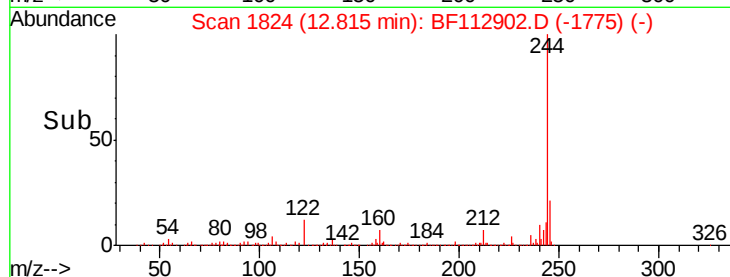
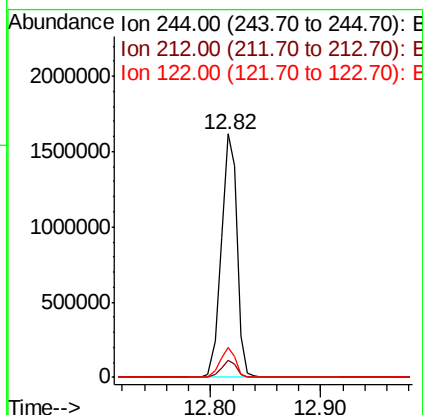
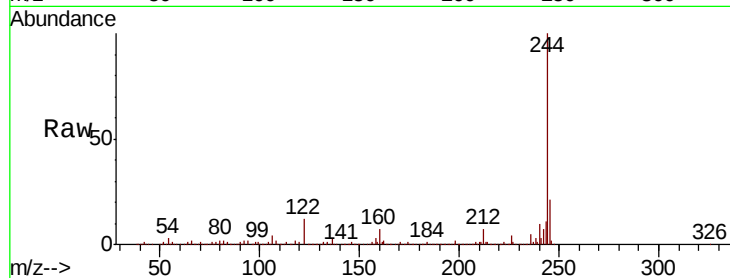




#79  
 Terphenyl-d14  
 Concen: 53.347 ng  
 RT: 12.82 min Scan# 1824  
 Delta R.T. -0.01 min  
 Lab File: BF112902.D  
 Acq: 7 Mar 2019 1:10

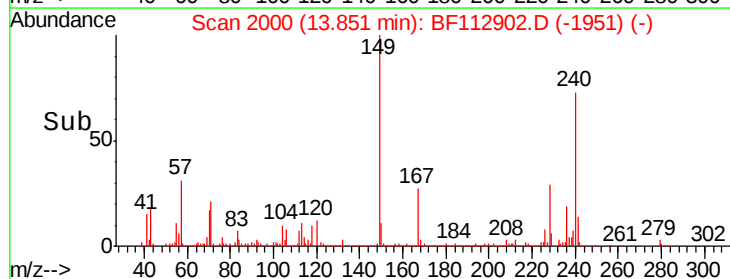
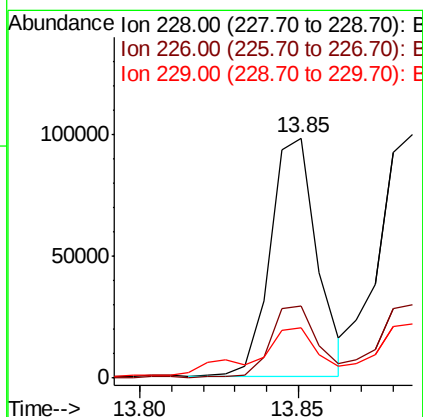
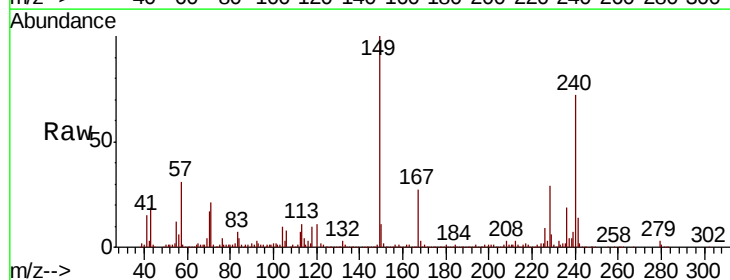
Instrument :  
 BNA\_F  
 ClientSampleId :  
 EXT-028-SW008-022719

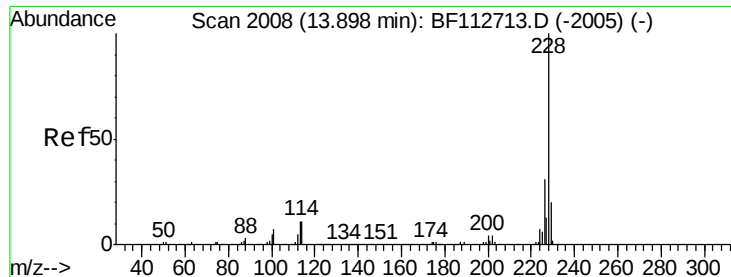
Tgt Ion:244 Resp: 1603705  
 Ion Ratio Lower Upper  
 244 100  
 212 6.8 5.6 8.4  
 122 12.5 10.5 15.7



#81  
 Benzo(a)anthracene  
 Concen: 2.501 ng  
 RT: 13.85 min Scan# 2000  
 Delta R.T. -0.01 min  
 Lab File: BF112902.D  
 Acq: 7 Mar 2019 1:10

Tgt Ion:228 Resp: 101013  
 Ion Ratio Lower Upper  
 228 100  
 226 30.1 22.2 33.4  
 229 21.0 16.0 24.0





#83

Chrysene

Concen: 2.679 ng

RT: 13.89 min Scan# 2006

Delta R.T. -0.01 min

Lab File: BF112902.D

Acq: 7 Mar 2019 1:10

Instrument :

BNA\_F

ClientSampleId :

EXT-028-SW008-022719

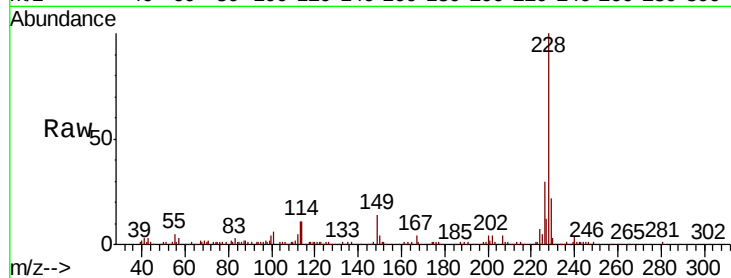
Tgt Ion: 228 Resp: 105999

Ion Ratio Lower Upper

228 100

226 29.9 24.9 37.3

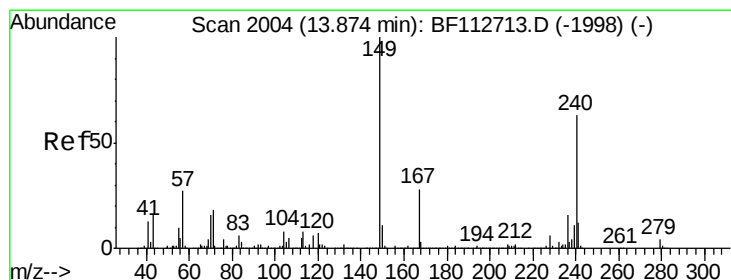
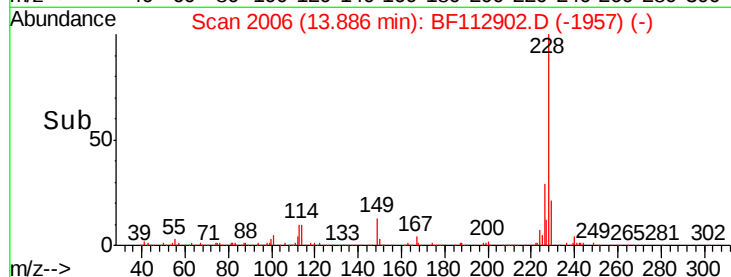
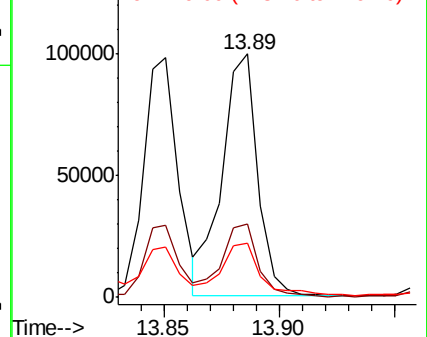
229 22.1 16.3 24.5



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



#84

Bis(2-ethylhexyl)phthalate

Concen: 17.417 ng

RT: 13.86 min Scan# 2001

Delta R.T. -0.02 min

Lab File: BF112902.D

Acq: 7 Mar 2019 1:10

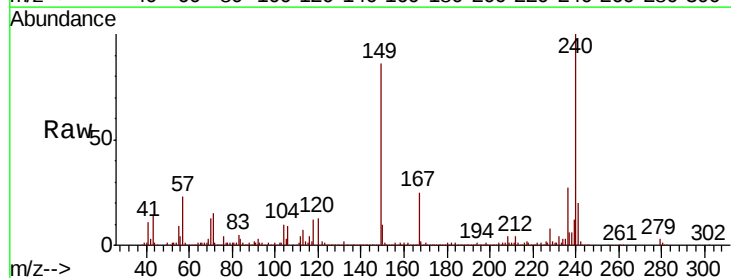
Tgt Ion: 149 Resp: 443001

Ion Ratio Lower Upper

149 100

167 28.7 22.4 33.6

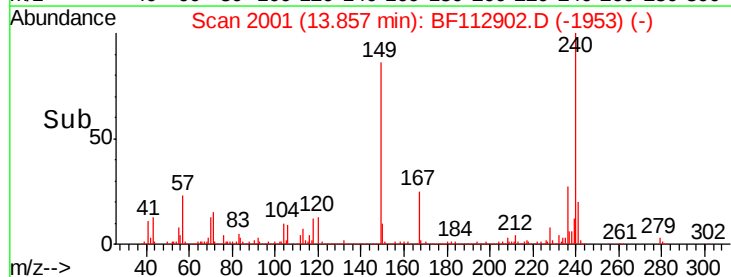
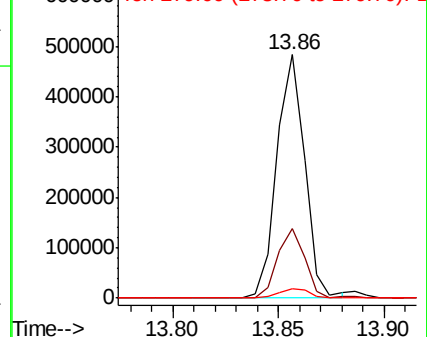
279 4.0 3.3 4.9

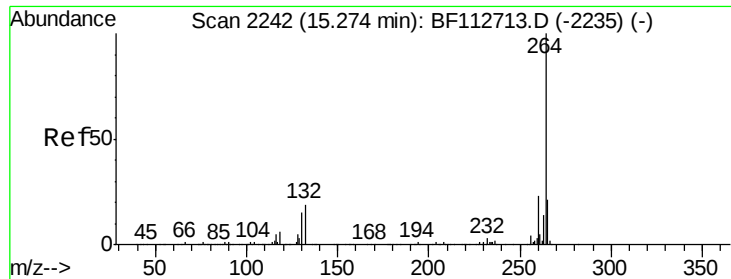


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

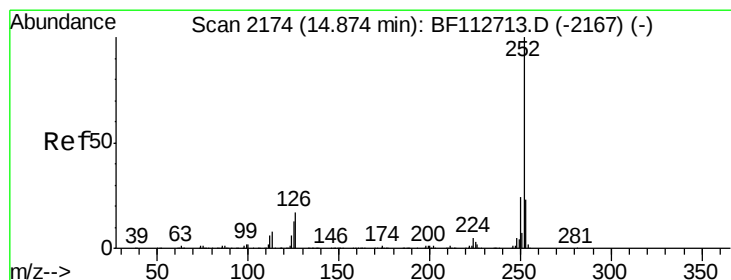
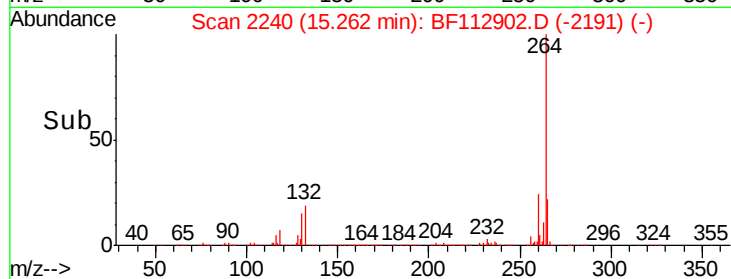
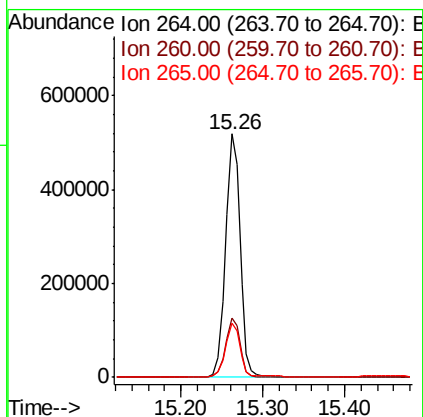
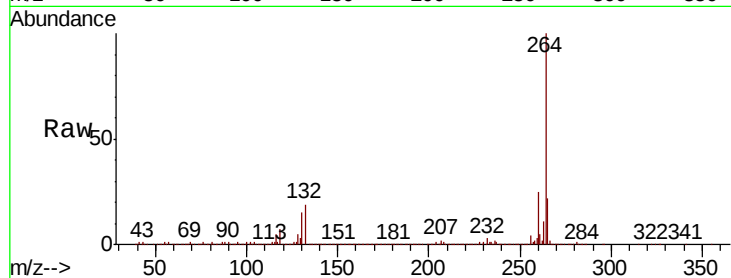




#87  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.26 min Scan# 2240  
Delta R.T. -0.01 min  
Lab File: BF112902.D  
Acq: 7 Mar 2019 1:10

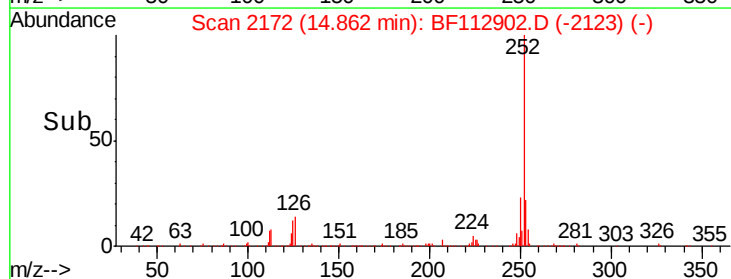
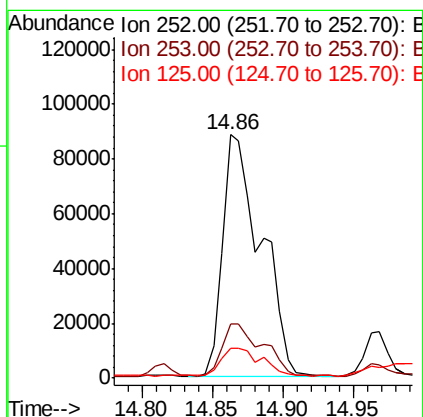
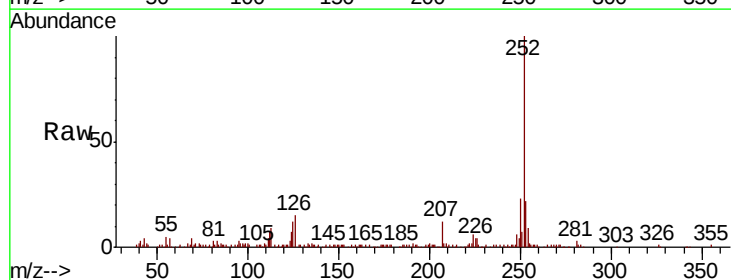
Instrument :  
BNA\_F  
ClientSampleId :  
EXT-028-SW008-022719

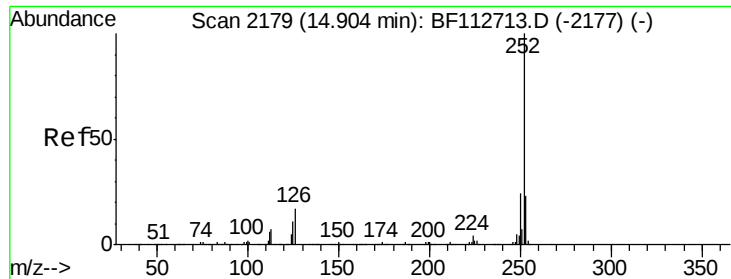
Tgt Ion:264 Resp: 642837  
Ion Ratio Lower Upper  
264 100  
260 24.5 18.7 28.1  
265 22.0 17.2 25.8



#88  
Benzo(b)fluoranthene  
Concen: 4.051 ng  
RT: 14.86 min Scan# 2172  
Delta R.T. -0.01 min  
Lab File: BF112902.D  
Acq: 7 Mar 2019 1:10

Tgt Ion:252 Resp: 168437  
Ion Ratio Lower Upper  
252 100  
253 22.4 18.0 27.0  
125 12.5 10.2 15.2

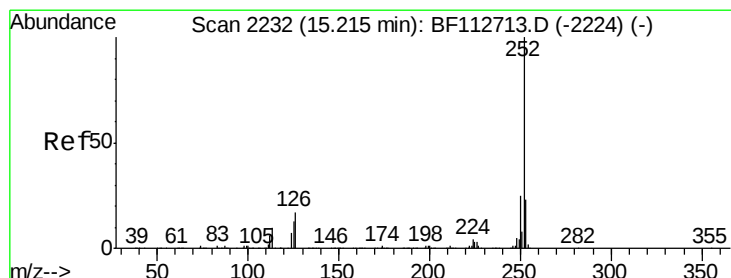
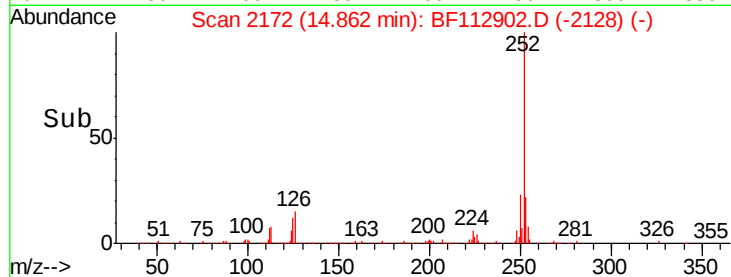
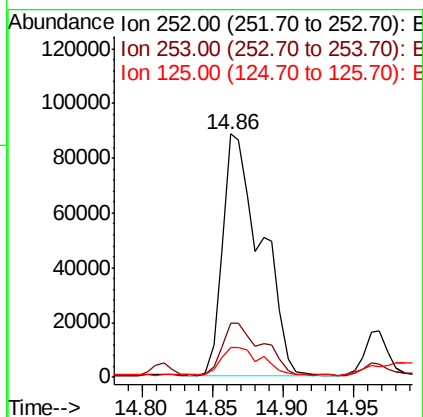
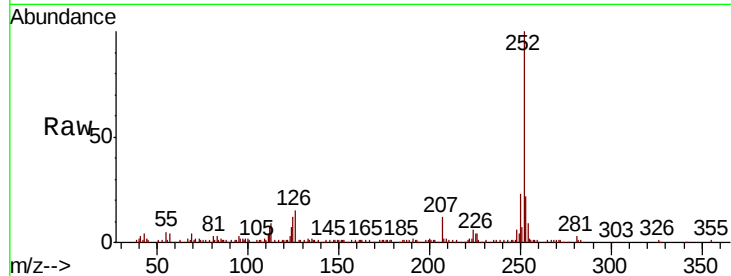




#89  
Benzo(k)fluoranthene  
Concen: 4.472 ng  
RT: 14.86 min Scan# 2172  
Delta R.T. -0.04 min  
Lab File: BF112902.D  
Acq: 7 Mar 2019 1:10

Instrument :  
BNA\_F  
ClientSampleId :  
EXT-028-SW008-022719

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.4  | 18.2  | 27.2  |
| 125     | 12.5  | 9.8   | 14.6  |



#90  
Benzo(a)pyrene  
Concen: 2.305 ng  
RT: 15.20 min Scan# 2230  
Delta R.T. -0.01 min  
Lab File: BF112902.D  
Acq: 7 Mar 2019 1:10

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.7  | 18.0  | 27.0  |
| 125     | 11.5  | 10.7  | 16.1  |

