

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF103018\  
 Data File : BF110314.D  
 Acq On : 30 Oct 2018 20:18  
 Operator : JU/SJ  
 Sample : J5724-04DL 2X  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 RED-SHAEDL

Quant Time: Oct 31 04:34:28 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF102318.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Oct 29 17:29:00 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.97  | 152  | 110846   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.25  | 136  | 457874   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 10.01 | 164  | 202252   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 11.50 | 188  | 313036   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 14.16 | 240  | 211357   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 15.69 | 264  | 187250   | 20.00 | ng    | 0.00     |

## System Monitoring Compounds

|                          |       |     |        |       |    |      |
|--------------------------|-------|-----|--------|-------|----|------|
| 5) 2-Fluorophenol        | 5.59  | 112 | 289326 | 42.51 | ng | 0.00 |
| 7) Phenol-d6             | 6.59  | 99  | 364209 | 41.83 | ng | 0.00 |
| 23) Nitrobenzene-d5      | 7.53  | 82  | 226364 | 29.32 | ng | 0.00 |
| 42) 2,4,6-Tribromophenol | 10.80 | 330 | 68242  | 34.06 | ng | 0.00 |
| 45) 2-Fluorobiphenyl     | 9.32  | 172 | 415214 | 32.24 | ng | 0.00 |
| 79) Terphenyl-d14        | 13.09 | 244 | 271984 | 26.76 | ng | 0.00 |

## Target Compounds

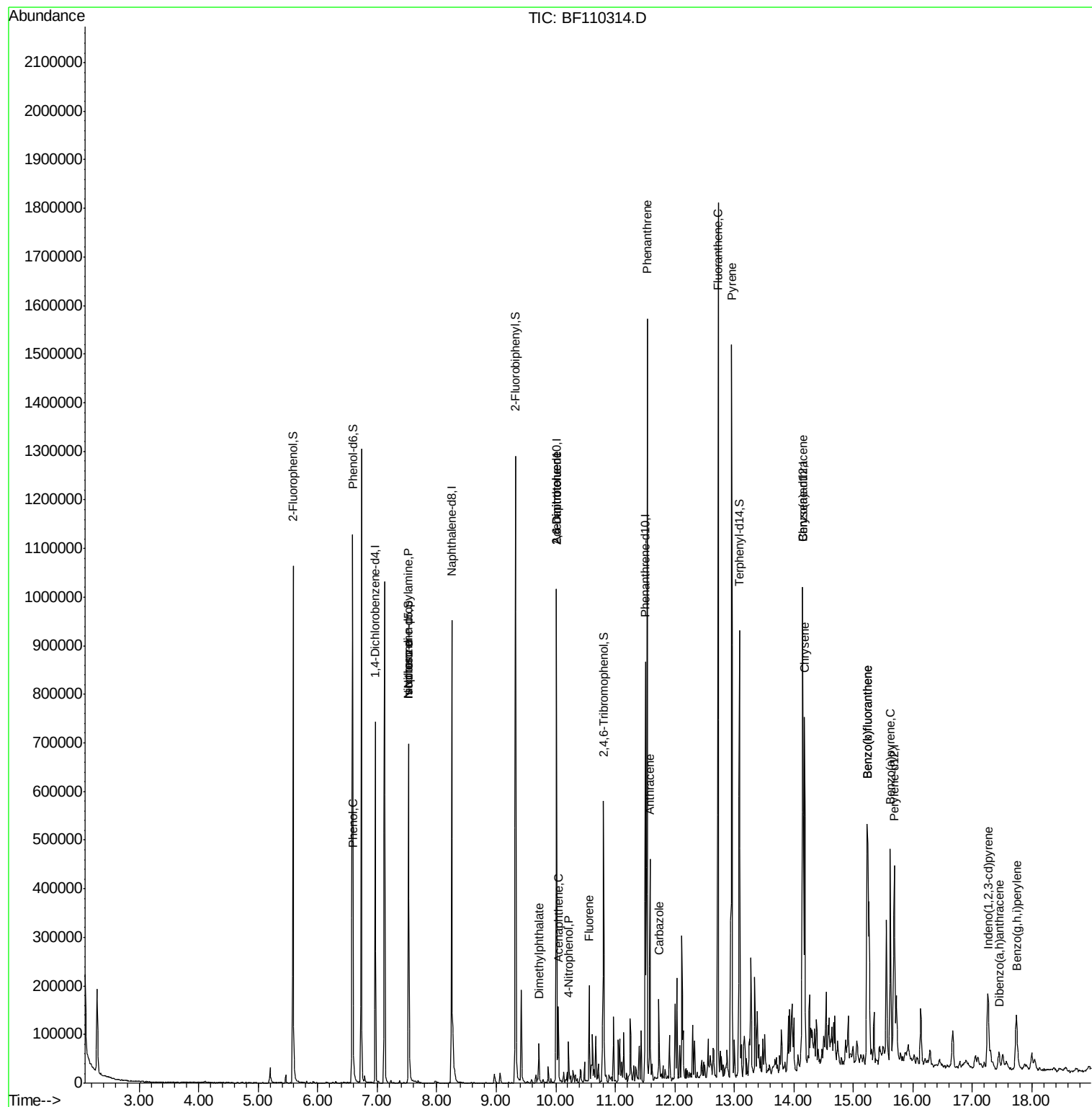
|                                |       |     |        |           | Qvalue |    |
|--------------------------------|-------|-----|--------|-----------|--------|----|
| 9) Benzaldehyde                | 6.59  | 77  | 641    | Below Cal | #      | 1  |
| 10) Phenol                     | 6.60  | 94  | 26178  | 2.813 ng  | #      | 68 |
| 19) n-Nitroso-di-n-propylamine | 7.53  | 70  | 29345  | 5.254 ng  | #      | 83 |
| 25) Isophorone                 | 7.53  | 82  | 226360 | 17.202 ng | #      | 67 |
| 50) Dimethylphthalate          | 9.72  | 163 | 33906  | 2.271 ng  |        | 99 |
| 51) 2,6-Dinitrotoluene         | 10.01 | 165 | 25910  | 8.057 ng  | #      | 23 |
| 52) Acenaphthene               | 10.05 | 154 | 37149  | 2.898 ng  |        | 98 |
| 56) 4-Nitrophenol              | 10.22 | 139 | 14306  | 5.054 ng  | #      | 6  |
| 57) 2,4-Dinitrotoluene         | 10.01 | 165 | 25905  | 6.342 ng  | #      | 19 |
| 58) Fluorene                   | 10.56 | 166 | 61869  | 4.632 ng  |        | 98 |
| 71) Phenanthrene               | 11.53 | 178 | 570176 | 34.810 ng |        | 99 |
| 72) Anthracene                 | 11.58 | 178 | 168446 | 10.260 ng |        | 99 |
| 73) Carbazole                  | 11.73 | 167 | 62053  | 3.871 ng  |        | 99 |
| 75) Fluoranthene               | 12.73 | 202 | 714004 | 42.952 ng |        | 99 |
| 77) Benzidine                  | 13.09 | 184 | 3513   | Below Cal | #      | 88 |
| 78) Pyrene                     | 12.96 | 202 | 594391 | 39.227 ng |        | 99 |
| 81) Benzo(a)anthracene         | 14.14 | 228 | 305072 | 24.340 ng |        | 99 |
| 83) Chrysene                   | 14.18 | 228 | 245883 | 20.654 ng |        | 98 |
| 86) Indeno(1,2,3-cd)pyrene     | 17.26 | 276 | 104461 | 10.577 ng |        | 98 |
| 88) Benzo(b)fluoranthene       | 15.23 | 252 | 392716 | 36.319 ng |        | 98 |
| 89) Benzo(k)fluoranthene       | 15.23 | 252 | 392716 | 36.943 ng | #      | 97 |
| 90) Benzo(a)pyrene             | 15.62 | 252 | 206428 | 20.747 ng |        | 99 |
| 91) Dibenzo(a,h)anthracene     | 17.44 | 278 | 22664  | 2.640 ng  |        | 95 |
| 92) Benzo(g,h,i)perylene       | 17.74 | 276 | 96821  | 11.445 ng |        | 98 |

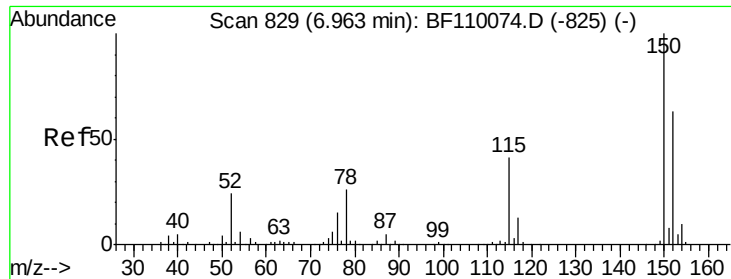
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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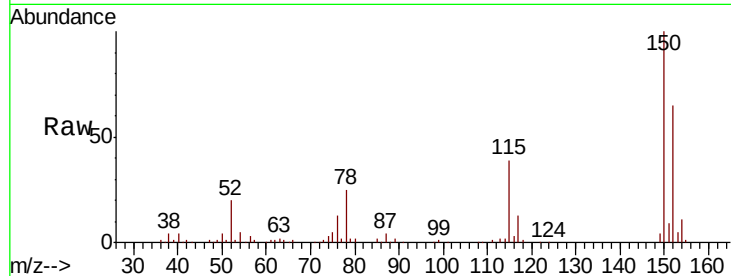


#1

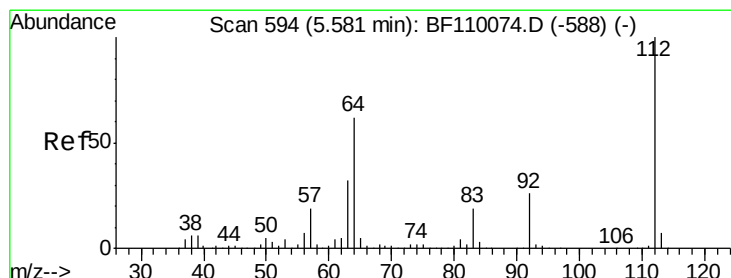
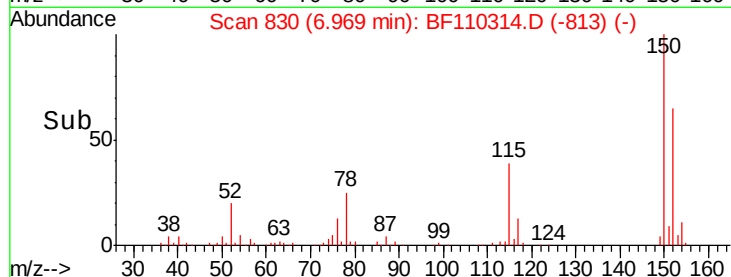
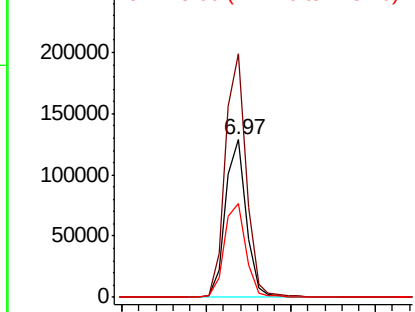
1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.97 min Scan# 830  
 Delta R.T. 0.00 min  
 Lab File: BF110314.D  
 Acq: 30 Oct 2018 20:18

Instrument :  
 BNA\_F  
 ClientSampleId :  
 RED-SHAEDL

Tgt Ion:152 Resp: 110846  
 Ion Ratio Lower Upper  
 152 100  
 150 154.7 122.7 184.1  
 115 59.7 49.1 73.7



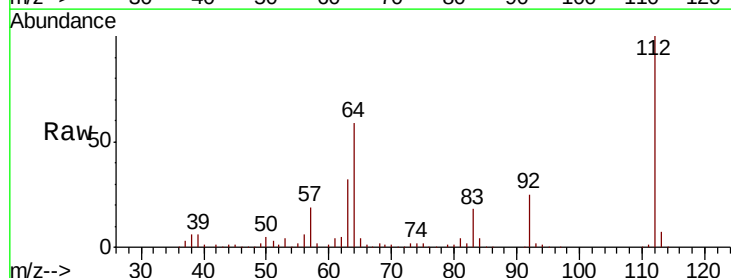
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



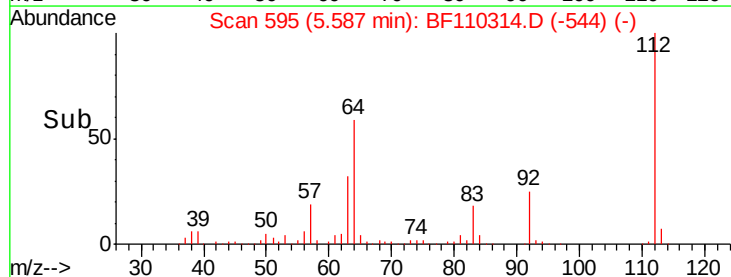
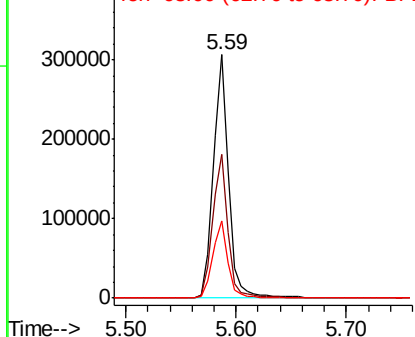
#5

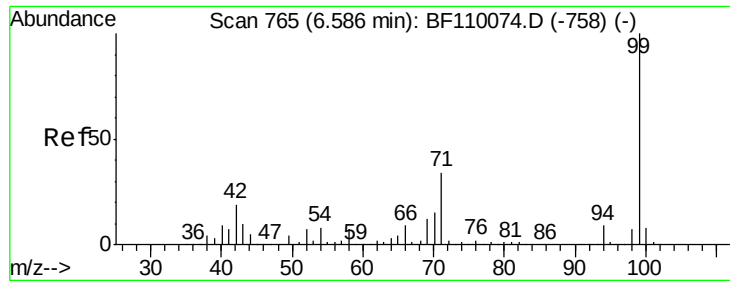
2-Fluorophenol  
 Concen: 42.505 ng  
 RT: 5.59 min Scan# 595  
 Delta R.T. 0.00 min  
 Lab File: BF110314.D  
 Acq: 30 Oct 2018 20:18

Tgt Ion:112 Resp: 289326  
 Ion Ratio Lower Upper  
 112 100  
 64 59.2 44.1 66.1  
 63 31.7 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: 41.832 ng

RT: 6.59 min Scan# 765

Delta R.T. -0.01 min

Lab File: BF110314.D

Acq: 30 Oct 2018 20:18

Instrument :

BNA\_F

ClientSampleId :

RED-SHAEDL

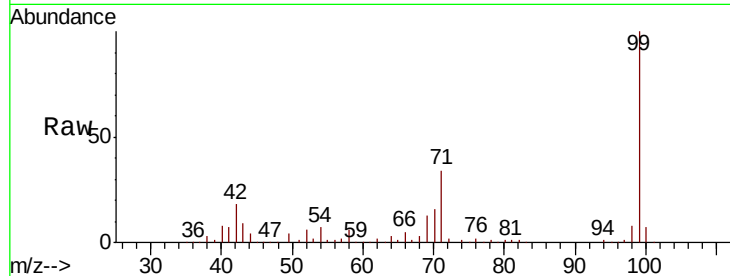
Tgt Ion: 99 Resp: 364209

Ion Ratio Lower Upper

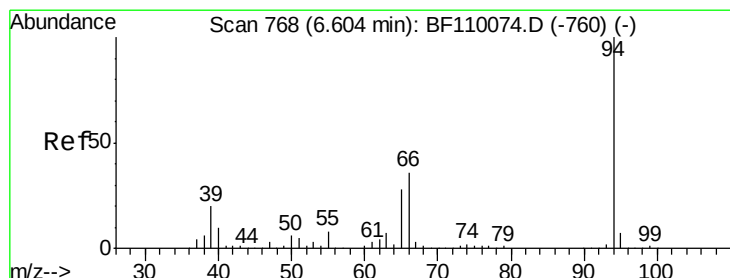
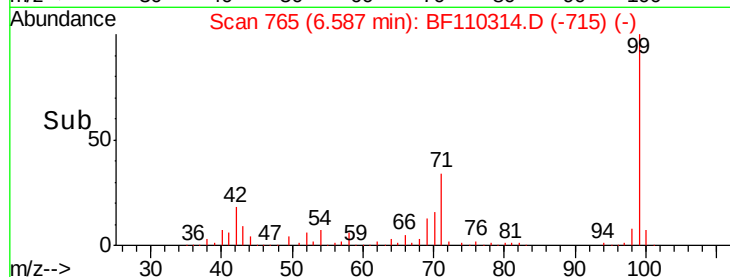
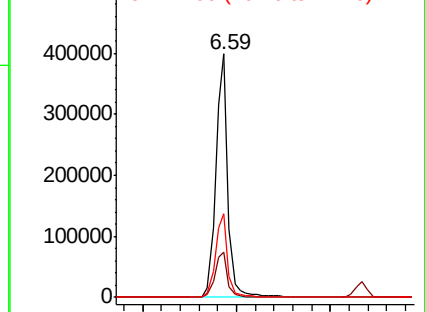
99 100

42 18.4 15.8 23.6

71 34.4 28.0 42.0



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



#10

Phenol

Concen: 2.813 ng

RT: 6.60 min Scan# 767

Delta R.T. -0.01 min

Lab File: BF110314.D

Acq: 30 Oct 2018 20:18

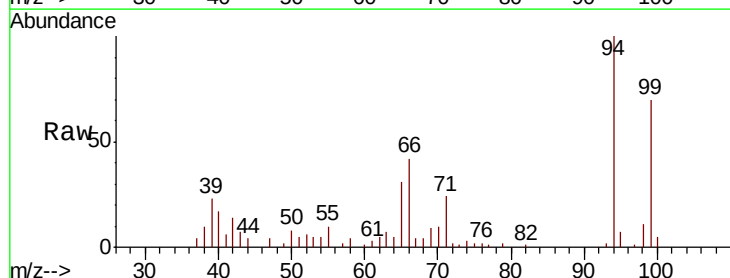
Tgt Ion: 94 Resp: 26178

Ion Ratio Lower Upper

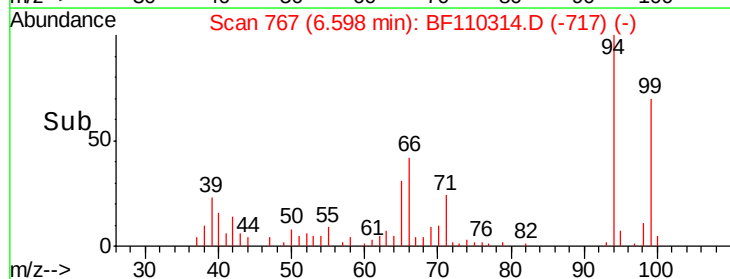
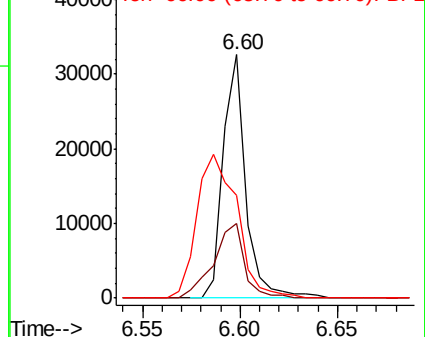
94 100

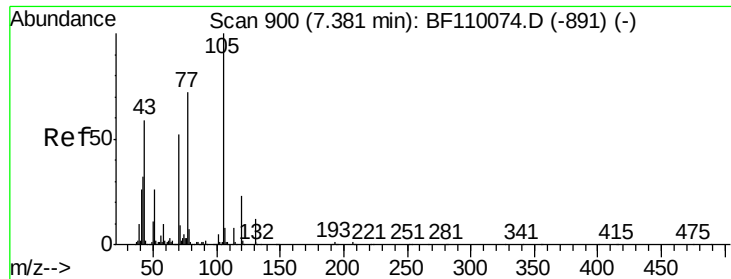
65 30.6 25.3 65.3

66 42.3 54.5 94.5#



Abundance Ion 94.00 (93.70 to 94.70): BF1  
Ion 65.00 (64.70 to 65.70): BF1  
Ion 66.00 (65.70 to 66.70): BF1

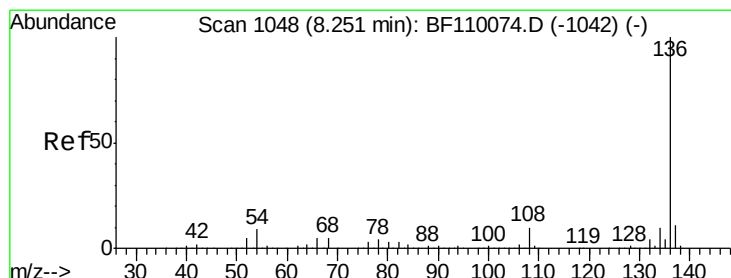
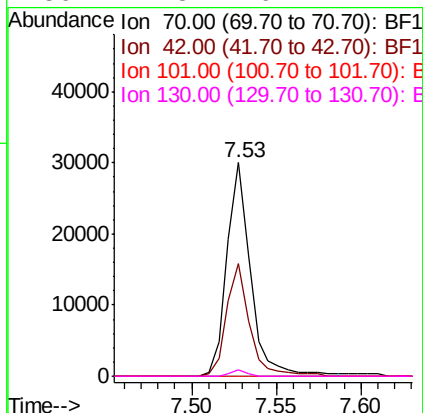
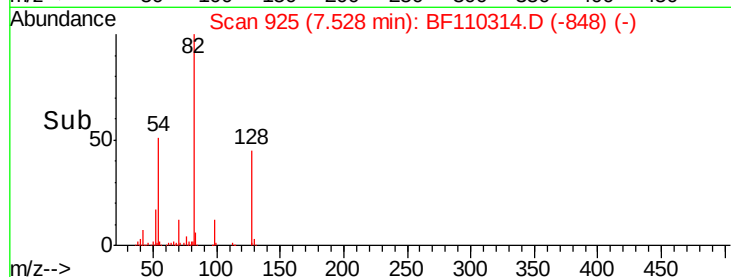
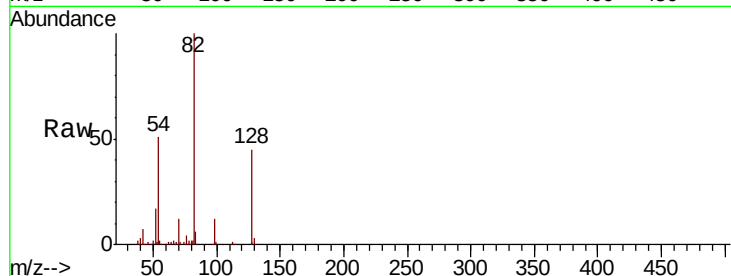




#19  
n-Nitroso-di-n-propylamine  
Concen: 5.254 ng  
RT: 7.53 min Scan# 925  
Delta R.T. 0.15 min  
Lab File: BF110314.D  
Acq: 30 Oct 2018 20:18

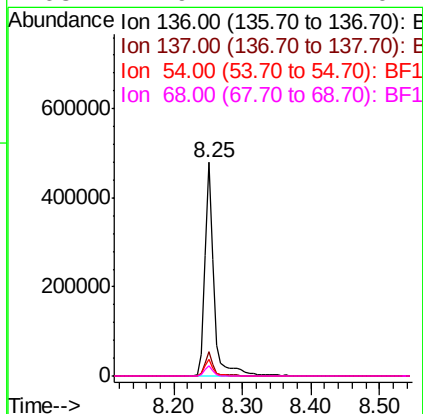
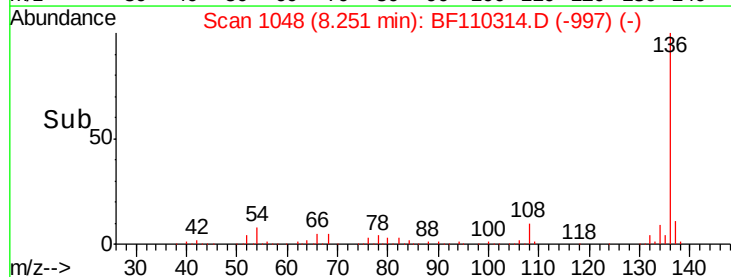
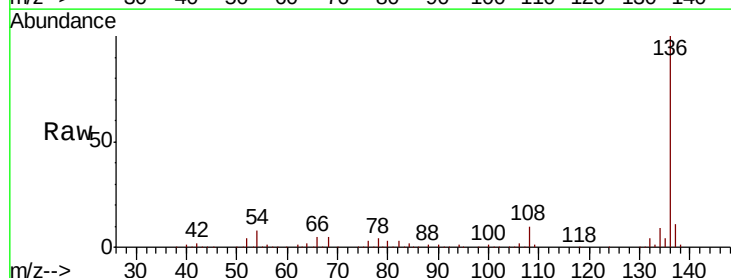
Instrument :  
BNA\_F  
ClientSampleId :  
RED-SHAEDL

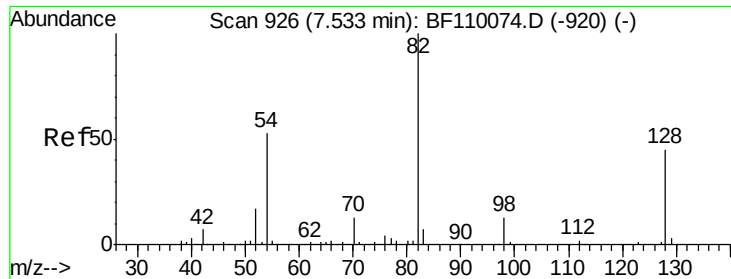
Tgt Ion: 70 Resp: 29345  
Ion Ratio Lower Upper  
70 100  
42 52.7 47.4 71.2  
101 0.0 7.3 10.9#  
130 2.8 16.2 24.2#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.25 min Scan# 1048  
Delta R.T. 0.00 min  
Lab File: BF110314.D  
Acq: 30 Oct 2018 20:18

Tgt Ion: 136 Resp: 457874  
Ion Ratio Lower Upper  
136 100  
137 11.4 8.8 13.2  
54 7.9 5.4 8.2  
68 4.9 4.2 6.2

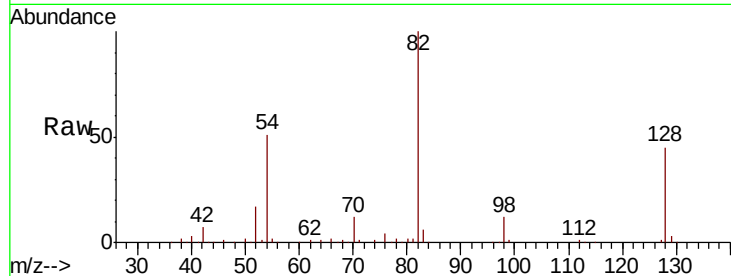




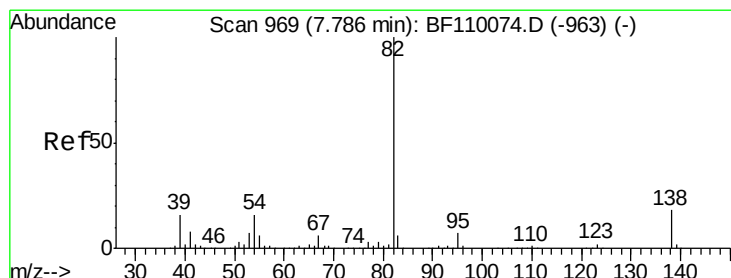
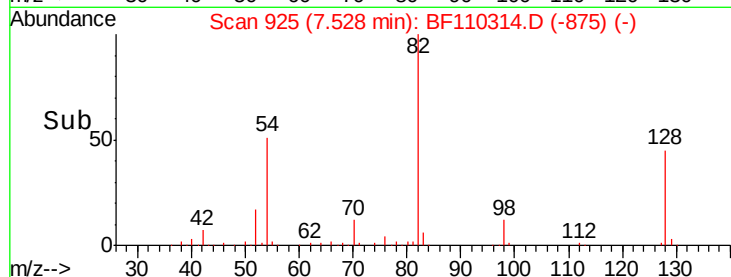
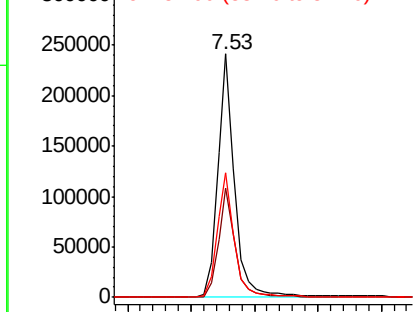
#23  
Nitrobenzene-d5  
Concen: 29.323 ng  
RT: 7.53 min Scan# 925  
Delta R.T. -0.01 min  
Lab File: BF110314.D  
Acq: 30 Oct 2018 20:18

Instrument :  
BNA\_F  
ClientSampleId :  
RED-SHAEDL

Tgt Ion: 82 Resp: 226364  
Ion Ratio Lower Upper  
82 100  
128 44.8 34.2 51.2  
54 51.4 38.6 58.0

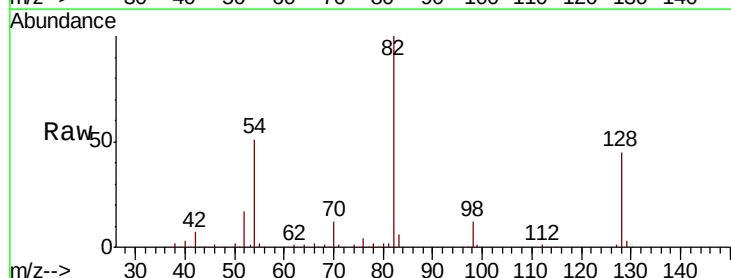


Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 128.00 (127.70 to 128.70): BF1  
Ion 54.00 (53.70 to 54.70): BF1

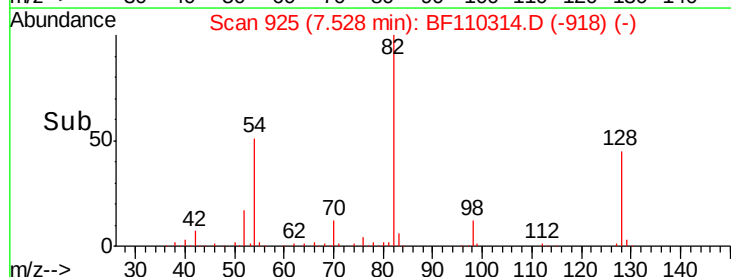
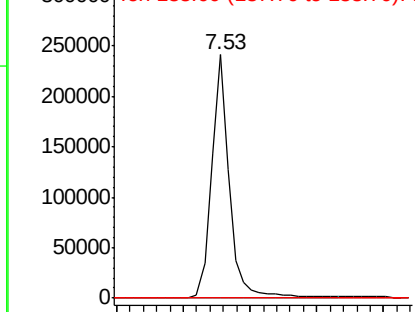


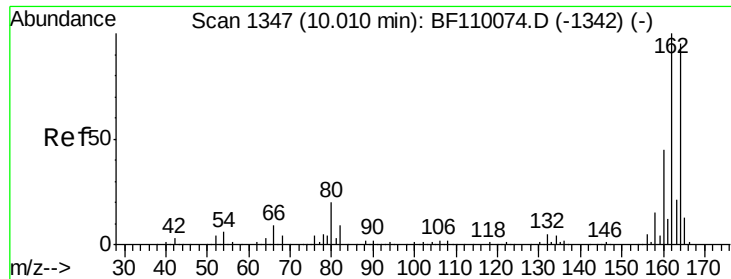
#25  
Isophorone  
Concen: 17.202 ng  
RT: 7.53 min Scan# 925  
Delta R.T. -0.26 min  
Lab File: BF110314.D  
Acq: 30 Oct 2018 20:18

Tgt Ion: 82 Resp: 226360  
Ion Ratio Lower Upper  
82 100  
95 0.0 5.7 8.5#  
138 0.0 13.2 19.8#



Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 95.00 (94.70 to 95.70): BF1  
Ion 138.00 (137.70 to 138.70): BF1





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 10.01 min Scan# 1347

Delta R.T. -0.01 min

Lab File: BF110314.D

Acq: 30 Oct 2018 20:18

Instrument :

BNA\_F

ClientSampleId :

RED-SHAEDL

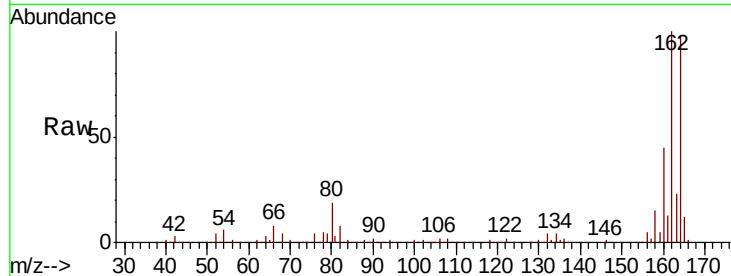
Tgt Ion:164 Resp: 202252

Ion Ratio Lower Upper

164 100

162 101.8 83.0 124.6

160 45.7 37.0 55.6

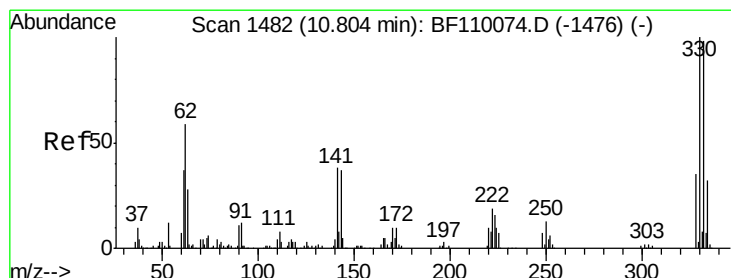
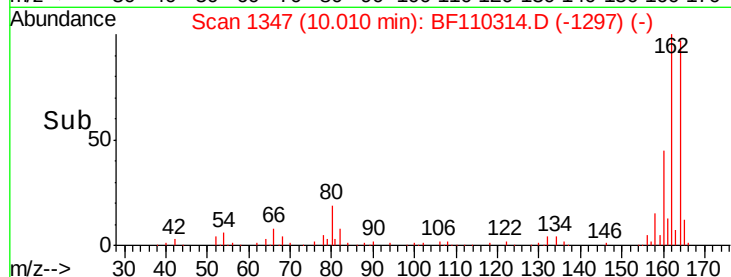
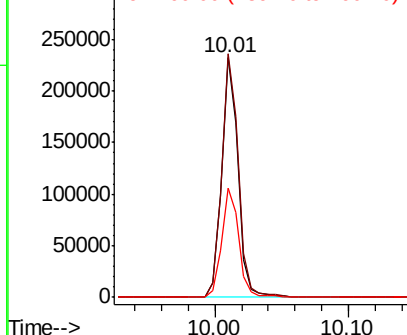


Abundance

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: 34.062 ng

RT: 10.80 min Scan# 1482

Delta R.T. -0.01 min

Lab File: BF110314.D

Acq: 30 Oct 2018 20:18

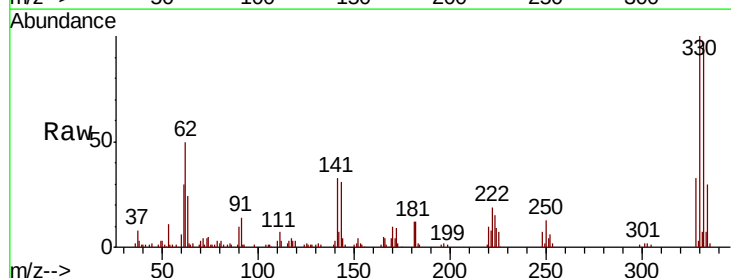
Tgt Ion:330 Resp: 68242

Ion Ratio Lower Upper

330 100

332 96.8 77.1 115.7

141 38.6 27.0 40.4

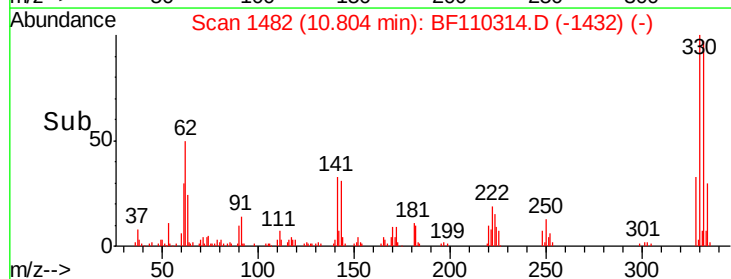
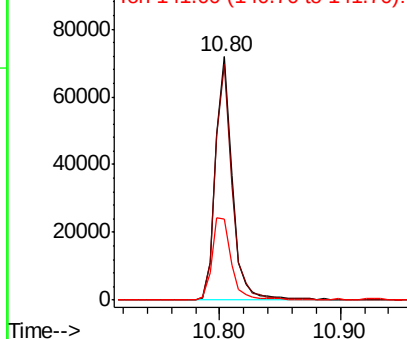


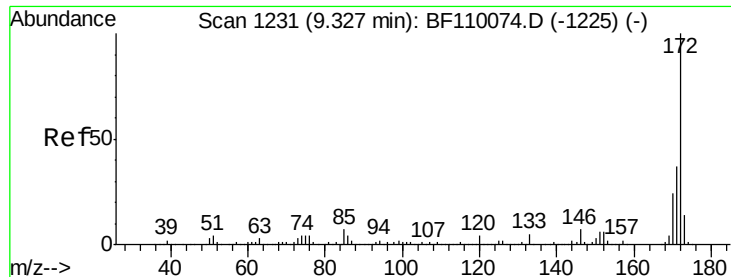
Abundance

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

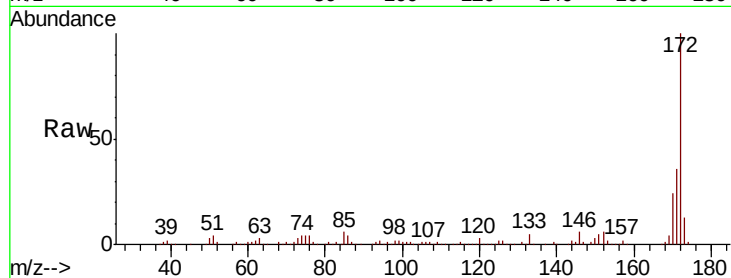




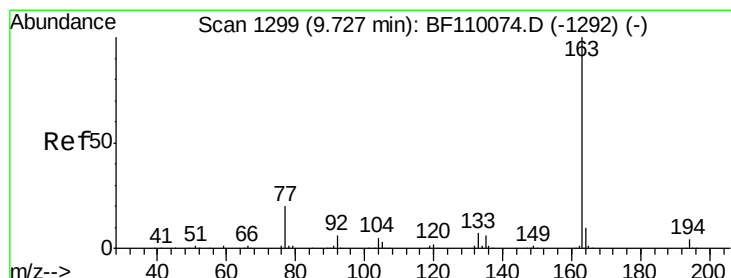
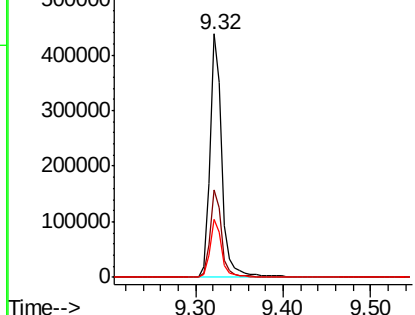
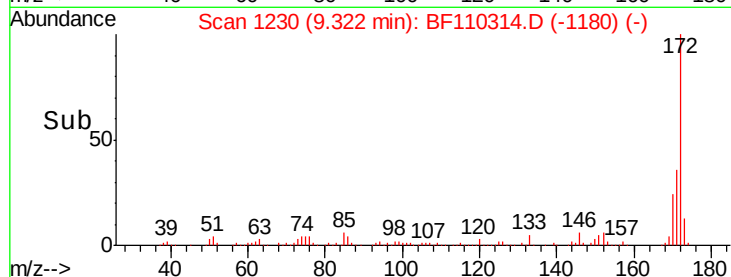
#45  
 2-Fluorobiphenyl  
 Concen: 32.237 ng  
 RT: 9.32 min Scan# 1230  
 Delta R.T. -0.01 min  
 Lab File: BF110314.D  
 Acq: 30 Oct 2018 20:18

Instrument :  
 BNA\_F  
 ClientSampleId :  
 RED-SHAEDL

Tgt Ion:172 Resp: 415214  
 Ion Ratio Lower Upper  
 172 100  
 171 36.0 28.6 43.0  
 170 23.8 19.7 29.5

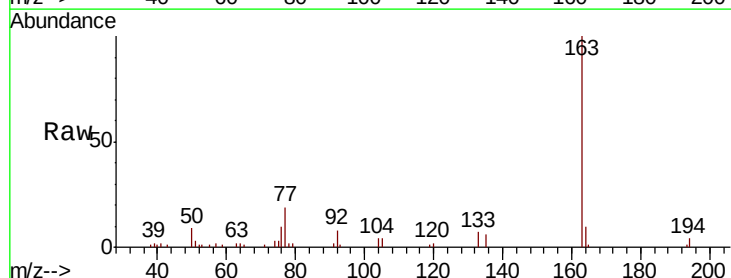


Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

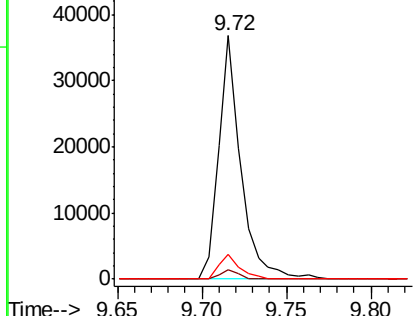
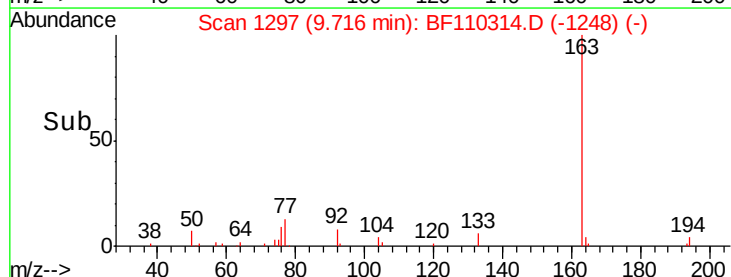


#50  
 Dimethylphthalate  
 Concen: 2.271 ng  
 RT: 9.72 min Scan# 1297  
 Delta R.T. -0.01 min  
 Lab File: BF110314.D  
 Acq: 30 Oct 2018 20:18

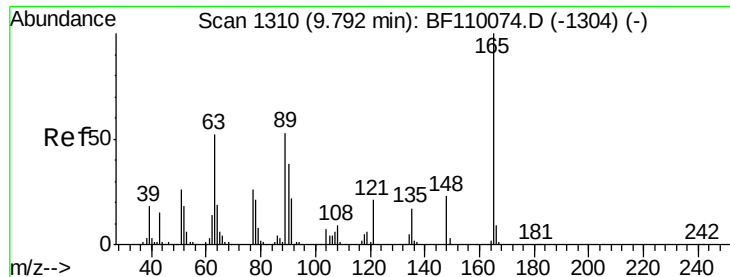
Tgt Ion:163 Resp: 33906  
 Ion Ratio Lower Upper  
 163 100  
 194 3.8 3.2 4.8  
 164 10.3 8.1 12.1



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



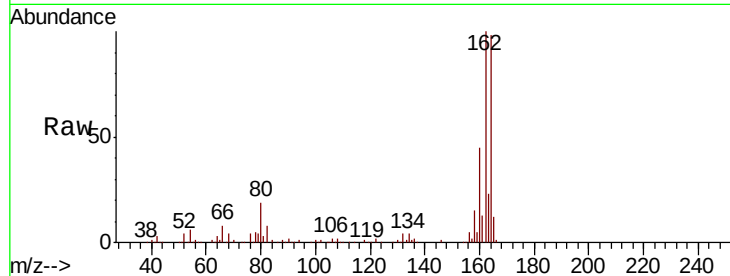




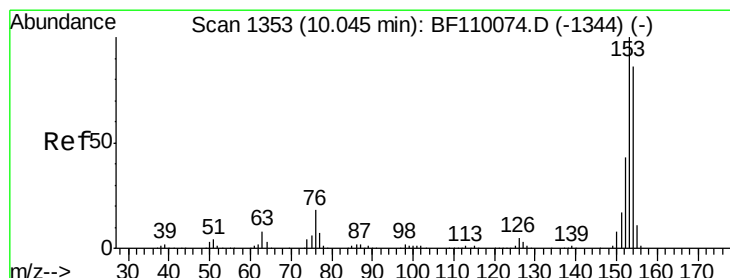
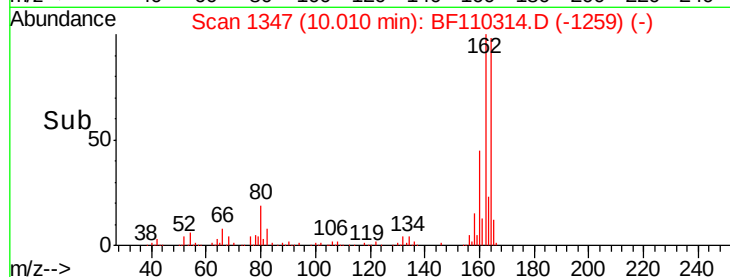
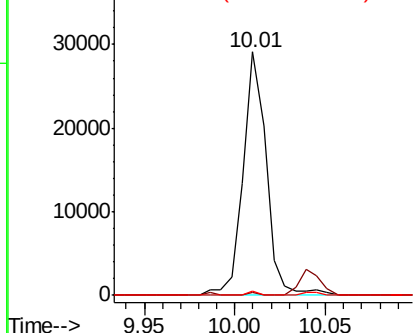
#51  
 2,6-Dinitrotoluene  
 Concen: 8.057 ng  
 RT: 10.01 min Scan# 1347  
 Delta R.T. 0.22 min  
 Lab File: BF110314.D  
 Acq: 30 Oct 2018 20:18

Instrument :  
 BNA\_F  
 ClientSampleId :  
 RED-SHAEDL

Tgt Ion:165 Resp: 25910  
 Ion Ratio Lower Upper  
 165 100  
 63 1.4 48.9 73.3#  
 89 2.0 46.6 69.8#

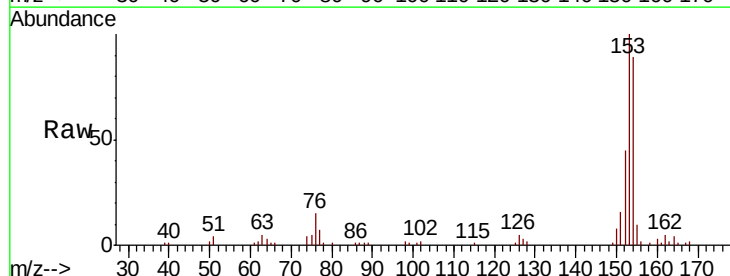


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BF1  
 Ion 89.00 (88.70 to 89.70): BF1

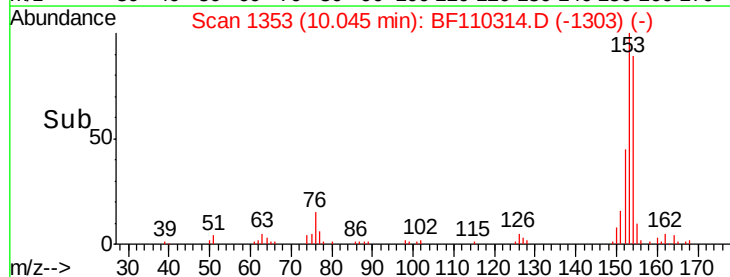
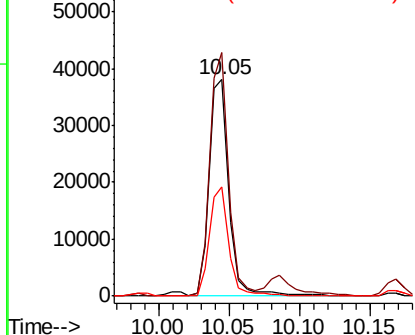


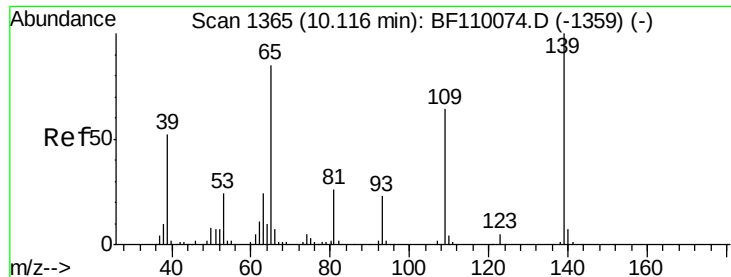
#52  
 Acenaphthene  
 Concen: 2.898 ng  
 RT: 10.05 min Scan# 1353  
 Delta R.T. -0.01 min  
 Lab File: BF110314.D  
 Acq: 30 Oct 2018 20:18

Tgt Ion:154 Resp: 37149  
 Ion Ratio Lower Upper  
 154 100  
 153 112.5 90.1 135.1  
 152 50.7 43.4 65.2



Abundance Ion 154.00 (153.70 to 154.70): E  
 Ion 153.00 (152.70 to 153.70): E  
 Ion 152.00 (151.70 to 152.70): E

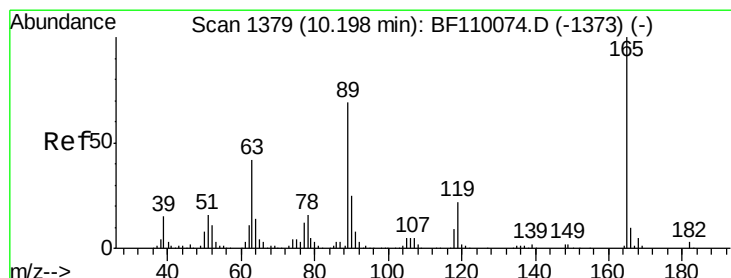
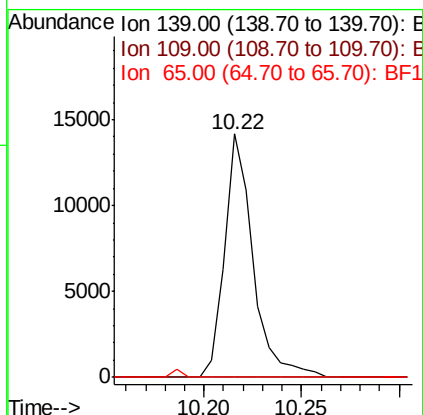
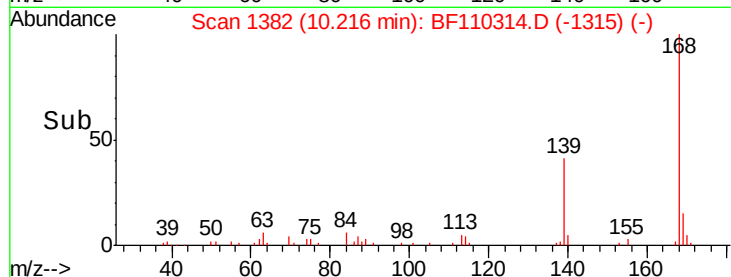
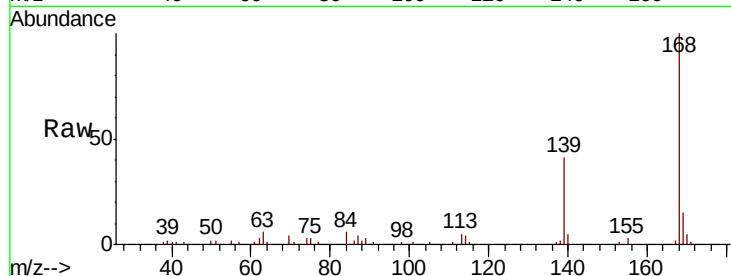




#56  
4-Nitrophenol  
Concen: 5.054 ng  
RT: 10.22 min Scan# 1382  
Delta R.T. 0.09 min  
Lab File: BF110314.D  
Acq: 30 Oct 2018 20:18

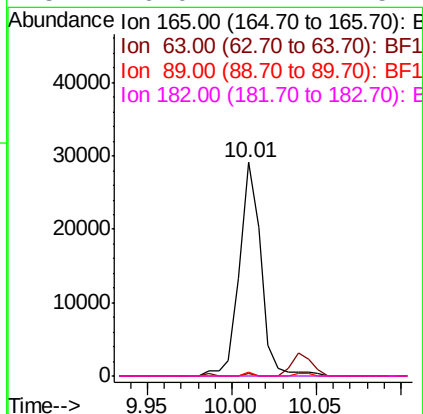
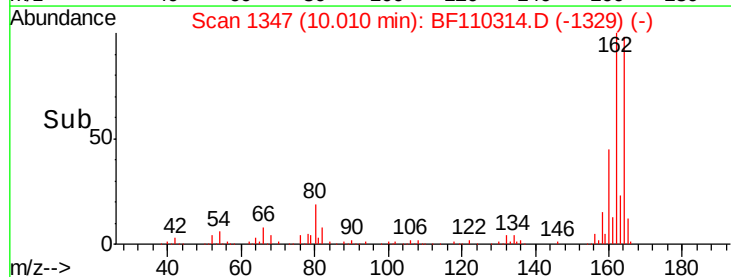
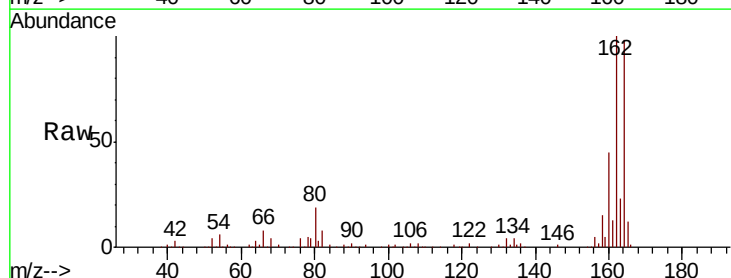
Instrument :  
BNA\_F  
ClientSampleId :  
RED-SHAEDL

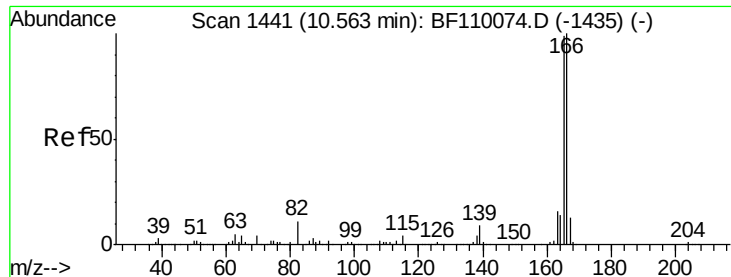
Tgt Ion:139 Resp: 14306  
Ion Ratio Lower Upper  
139 100  
109 0.0 55.8 95.8#  
65 0.0 77.9 117.9#



#57  
2,4-Dinitrotoluene  
Concen: 6.342 ng  
RT: 10.01 min Scan# 1347  
Delta R.T. -0.19 min  
Lab File: BF110314.D  
Acq: 30 Oct 2018 20:18

Tgt Ion:165 Resp: 25905  
Ion Ratio Lower Upper  
165 100  
63 1.4 44.8 67.2#  
89 2.0 62.2 93.4#  
182 0.0 2.1 3.1#

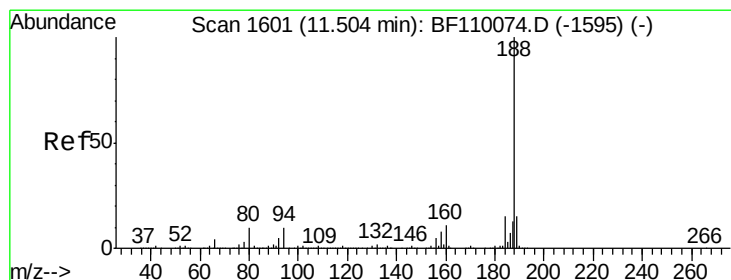
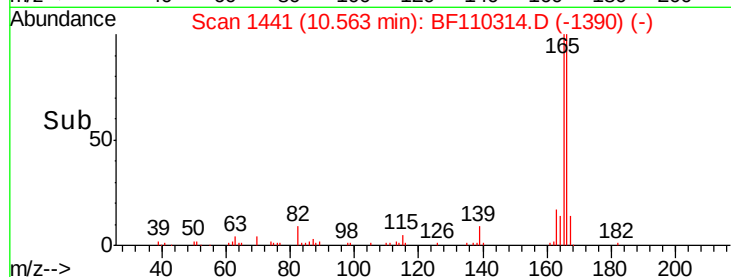
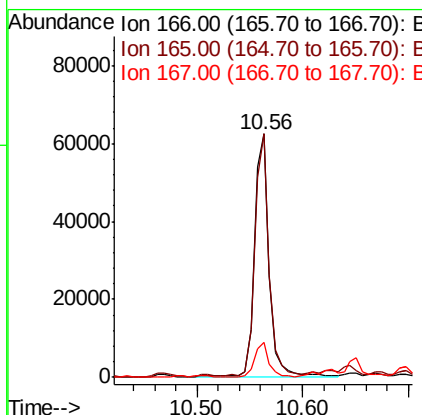
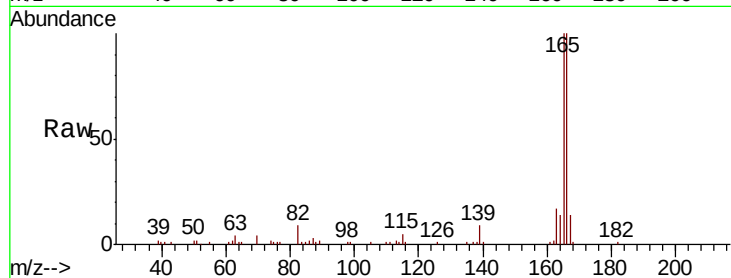




#58  
 Fluorene  
 Concen: 4.632 ng  
 RT: 10.56 min Scan# 1441  
 Delta R.T. 0.00 min  
 Lab File: BF110314.D  
 Acq: 30 Oct 2018 20:18

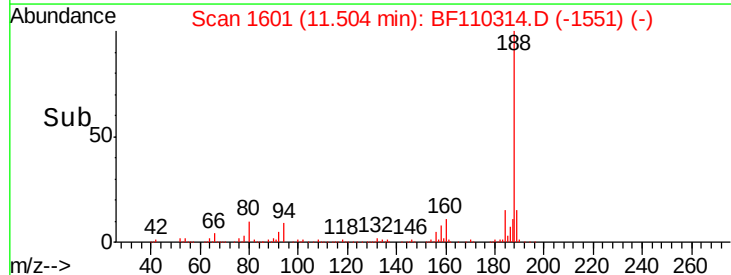
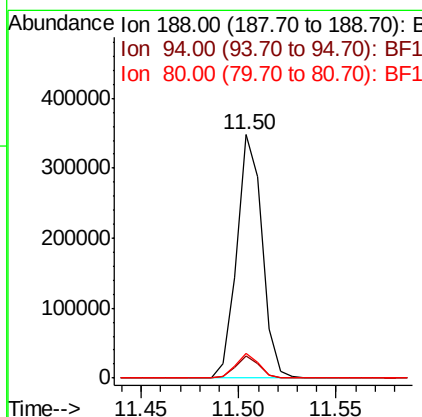
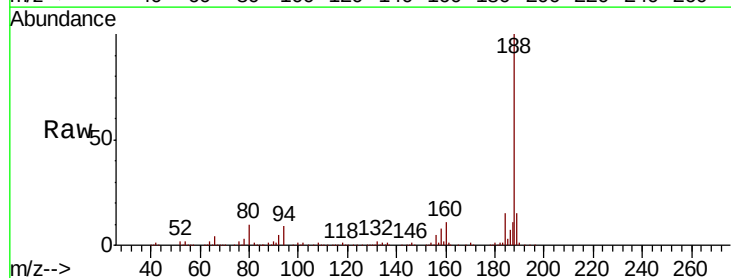
Instrument :  
 BNA\_F  
 ClientSampleId :  
 RED-SHAEDL

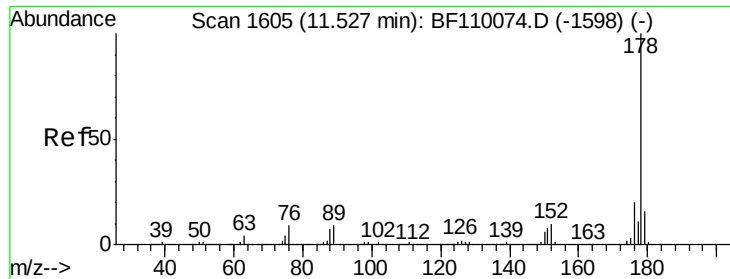
Tgt Ion:166 Resp: 61869  
 Ion Ratio Lower Upper  
 166 100  
 165 100.1 78.6 117.8  
 167 14.2 10.8 16.2



#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.50 min Scan# 1601  
 Delta R.T. -0.01 min  
 Lab File: BF110314.D  
 Acq: 30 Oct 2018 20:18

Tgt Ion:188 Resp: 313036  
 Ion Ratio Lower Upper  
 188 100  
 94 9.3 7.2 10.8  
 80 10.1 7.9 11.9

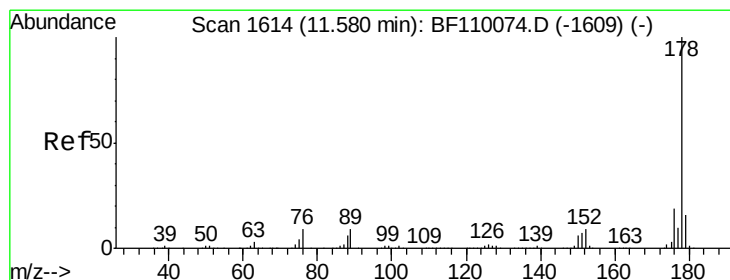
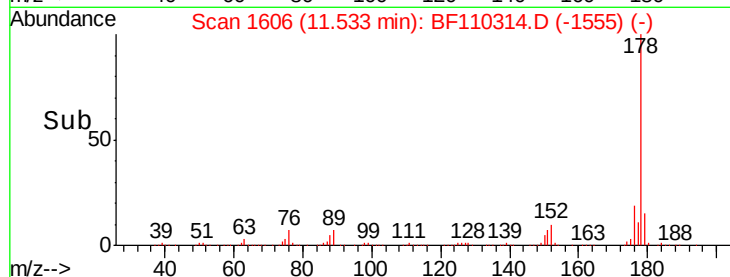
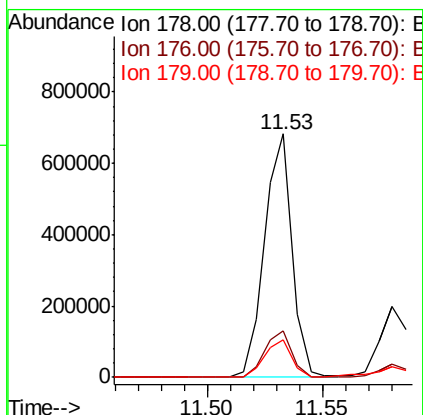
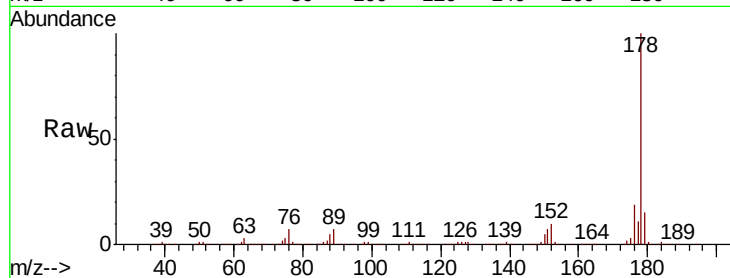




#71  
Phenanthrene  
Concen: 34.810 ng  
RT: 11.53 min Scan# 1606  
Delta R.T. 0.00 min  
Lab File: BF110314.D  
Acq: 30 Oct 2018 20:18

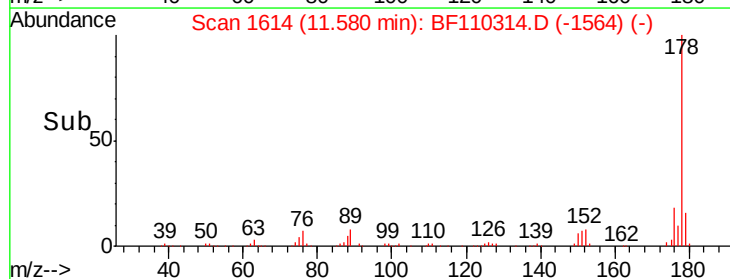
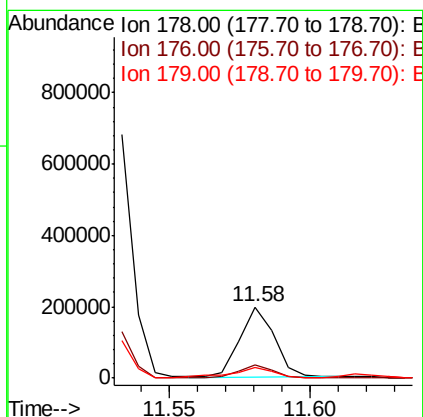
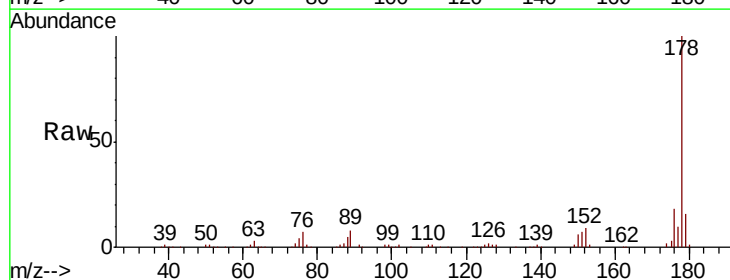
Instrument :  
BNA\_F  
ClientSampleId :  
RED-SHAEDL

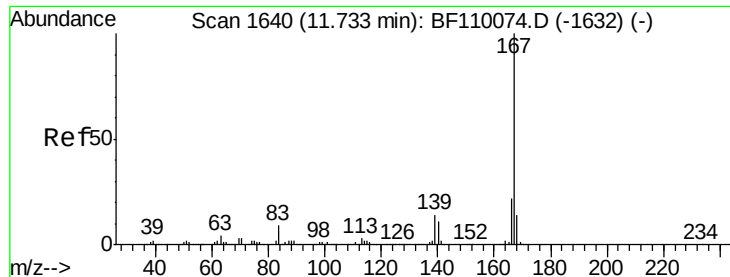
Tgt Ion:178 Resp: 570176  
Ion Ratio Lower Upper  
178 100  
176 19.0 15.5 23.3  
179 15.2 12.5 18.7



#72  
Anthracene  
Concen: 10.260 ng  
RT: 11.58 min Scan# 1614  
Delta R.T. -0.01 min  
Lab File: BF110314.D  
Acq: 30 Oct 2018 20:18

Tgt Ion:178 Resp: 168446  
Ion Ratio Lower Upper  
178 100  
176 18.4 15.4 23.2  
179 15.5 12.6 18.8

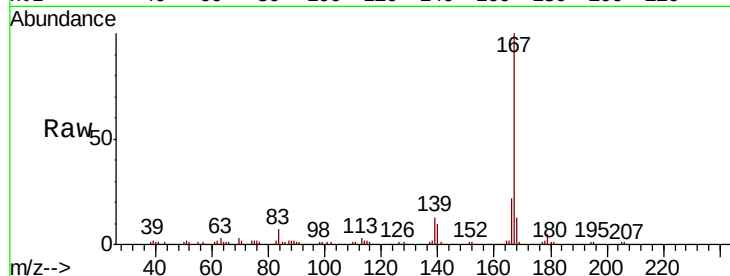




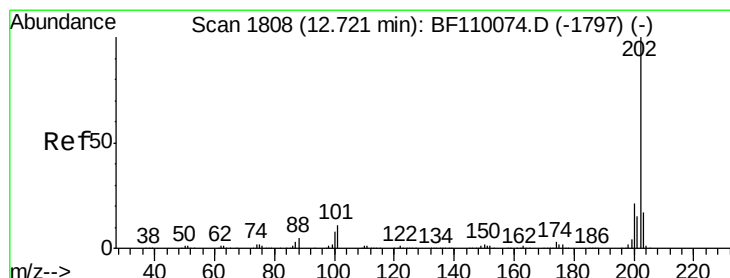
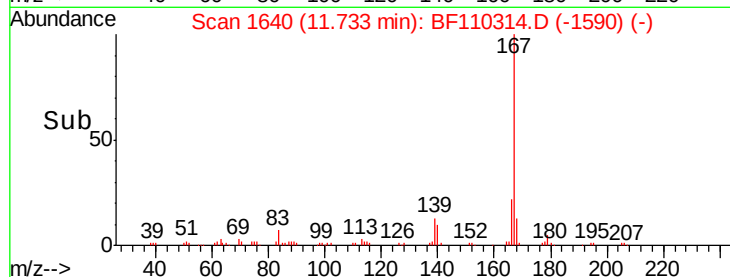
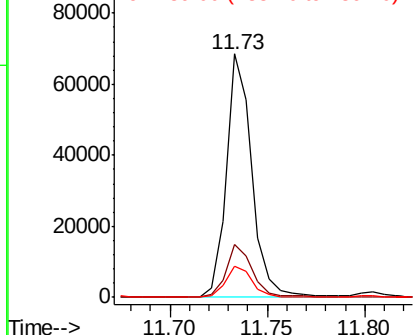
#73  
 Carbazole  
 Concen: 3.871 ng  
 RT: 11.73 min Scan# 1640  
 Delta R.T. -0.01 min  
 Lab File: BF110314.D  
 Acq: 30 Oct 2018 20:18

Instrument :  
 BNA\_F  
 ClientSampleId :  
 RED-SHAEDL

Tgt Ion:167 Resp: 62053  
 Ion Ratio Lower Upper  
 167 100  
 166 21.8 17.4 26.0  
 139 12.7 10.9 16.3

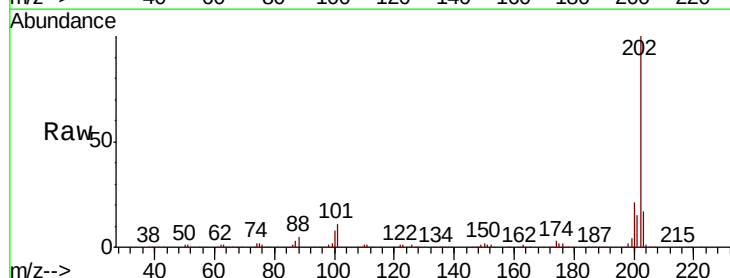


Abundance Ion 167.00 (166.70 to 167.70): E  
 Ion 166.00 (165.70 to 166.70): E  
 Ion 139.00 (138.70 to 139.70): E

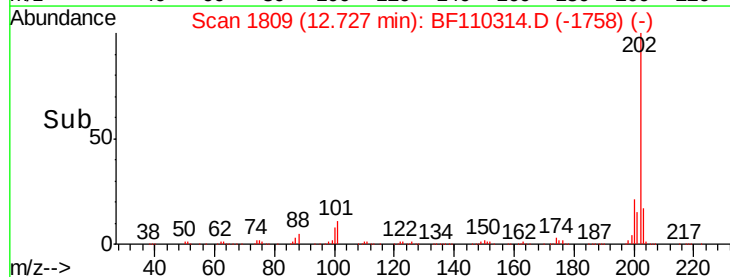
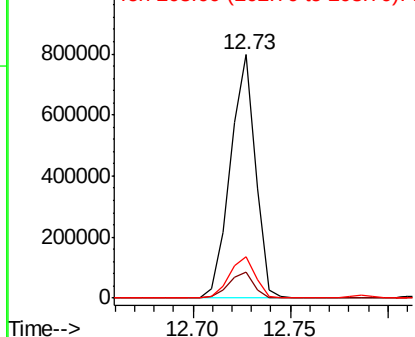


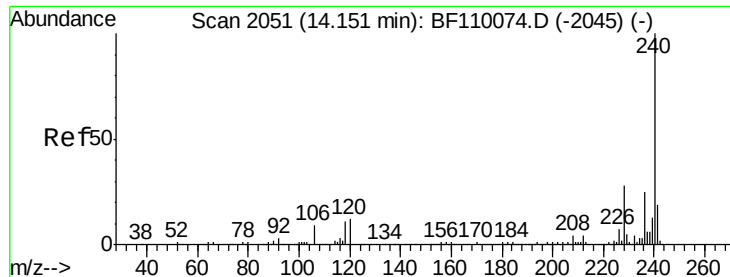
#75  
 Fluoranthene  
 Concen: 42.952 ng  
 RT: 12.73 min Scan# 1809  
 Delta R.T. 0.00 min  
 Lab File: BF110314.D  
 Acq: 30 Oct 2018 20:18

Tgt Ion:202 Resp: 714004  
 Ion Ratio Lower Upper  
 202 100  
 101 10.8 0.0 31.4  
 203 17.1 0.0 37.7



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

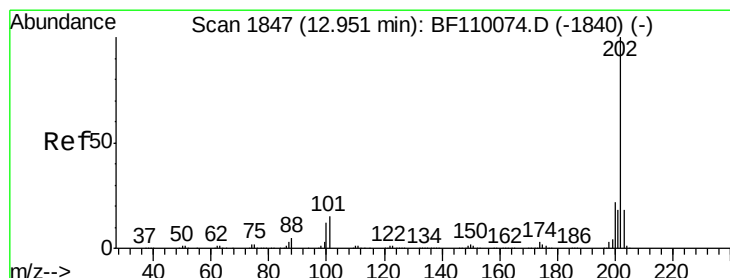
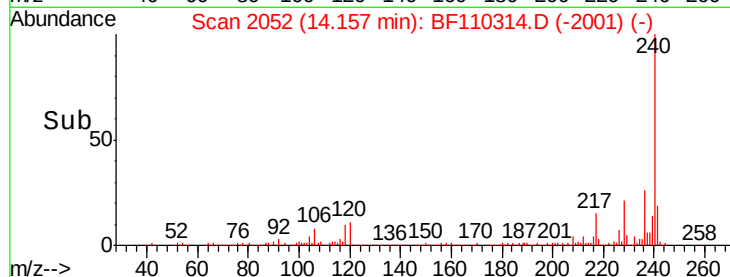
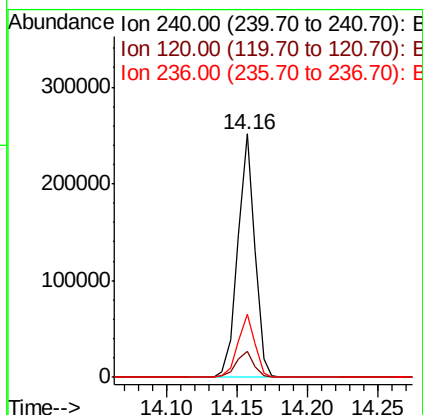
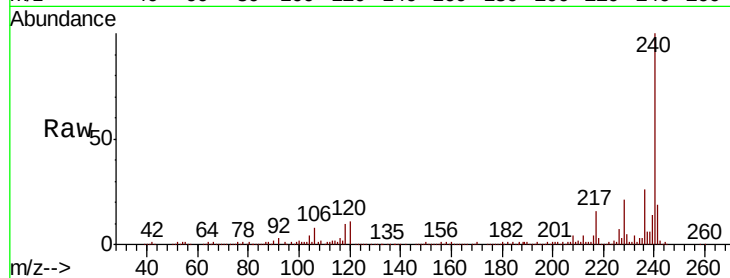




#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.16 min Scan# 2052  
Delta R.T. 0.00 min  
Lab File: BF110314.D  
Acq: 30 Oct 2018 20:18

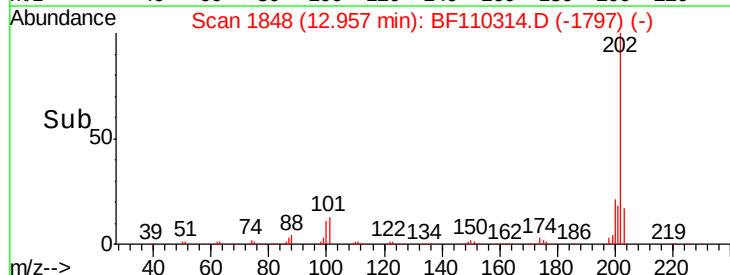
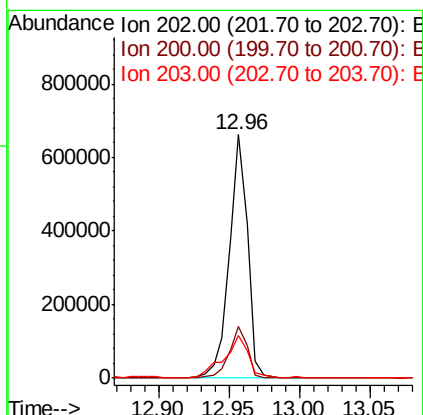
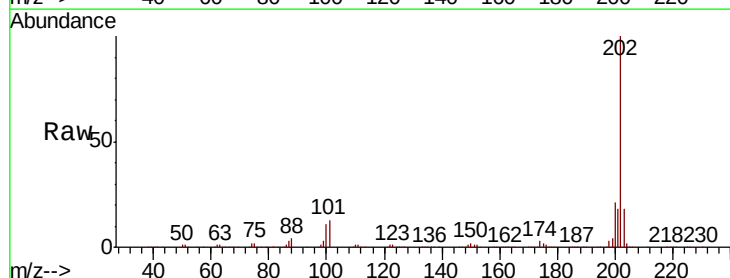
Instrument :  
BNA\_F  
ClientSampleId :  
RED-SHAEDL

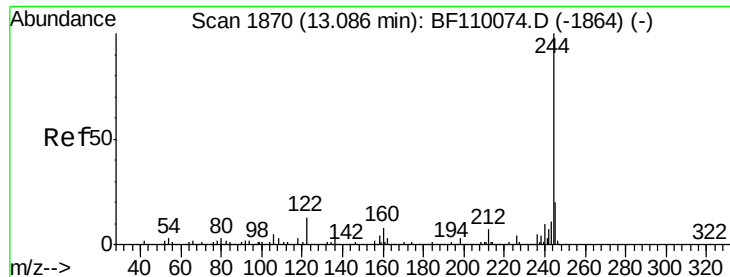
Tgt Ion:240 Resp: 211357  
Ion Ratio Lower Upper  
240 100  
120 10.9 8.3 12.5  
236 25.8 21.2 31.8



#78  
Pyrene  
Concen: 39.227 ng  
RT: 12.96 min Scan# 1848  
Delta R.T. 0.00 min  
Lab File: BF110314.D  
Acq: 30 Oct 2018 20:18

Tgt Ion:202 Resp: 594391  
Ion Ratio Lower Upper  
202 100  
200 21.2 17.8 26.6  
203 17.7 14.2 21.4





#79

Terphenyl-d14

Concen: 26.763 ng

RT: 13.09 min Scan# 1870

Delta R.T. -0.01 min

Lab File: BF110314.D

Acq: 30 Oct 2018 20:18

Instrument :

BNA\_F

ClientSampleId :

RED-SHAEDL

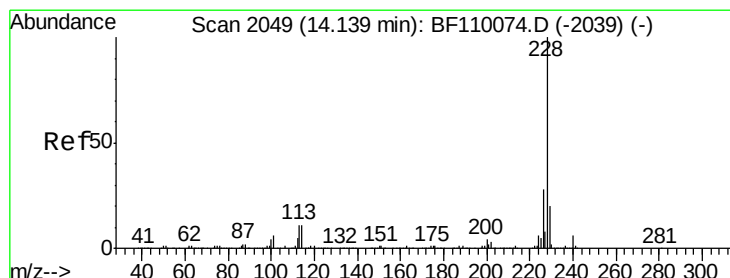
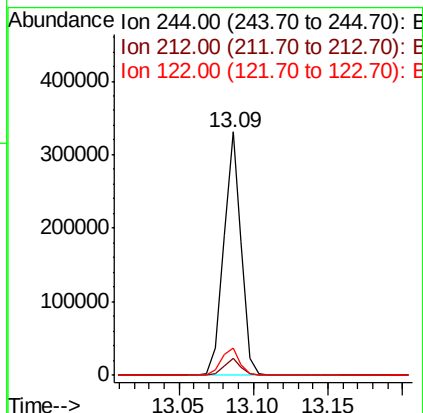
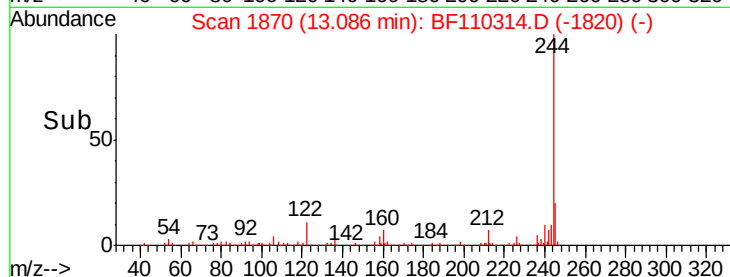
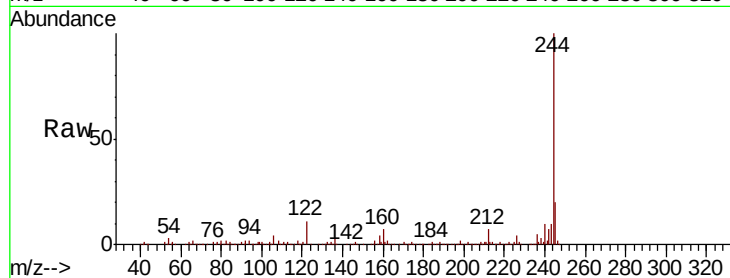
Tgt Ion:244 Resp: 271984

Ion Ratio Lower Upper

244 100

212 6.9 5.8 8.8

122 11.2 8.7 13.1



#81

Benzo(a)anthracene

Concen: 24.340 ng

RT: 14.14 min Scan# 2050

Delta R.T. 0.00 min

Lab File: BF110314.D

Acq: 30 Oct 2018 20:18

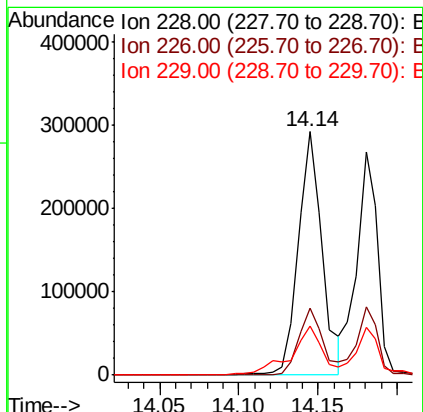
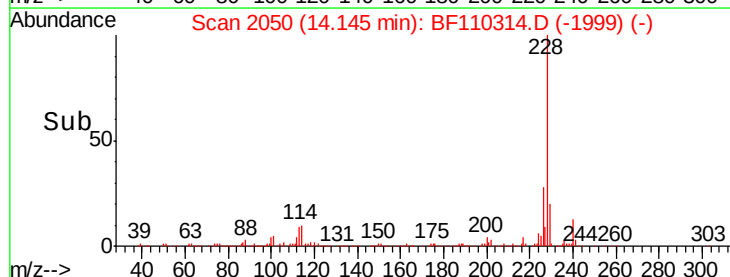
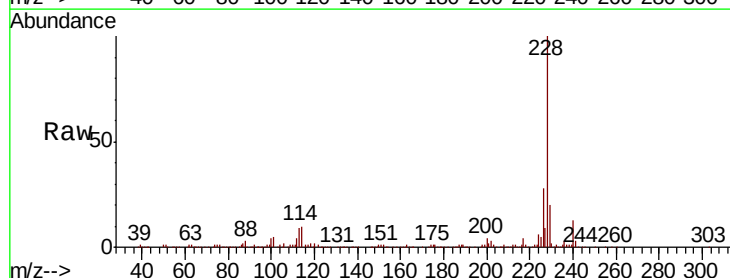
Tgt Ion:228 Resp: 305072

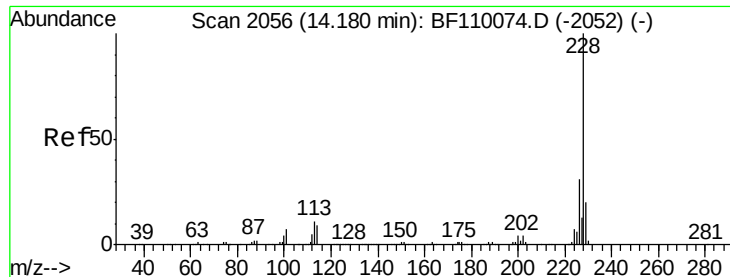
Ion Ratio Lower Upper

228 100

226 27.7 22.1 33.1

229 20.1 15.6 23.4





#83

Chrysene

Concen: 20.654 ng

RT: 14.18 min Scan# 2056

Delta R.T. -0.01 min

Lab File: BF110314.D

Acq: 30 Oct 2018 20:18

Instrument :

BNA\_F

ClientSampleId :

RED-SHAEDL

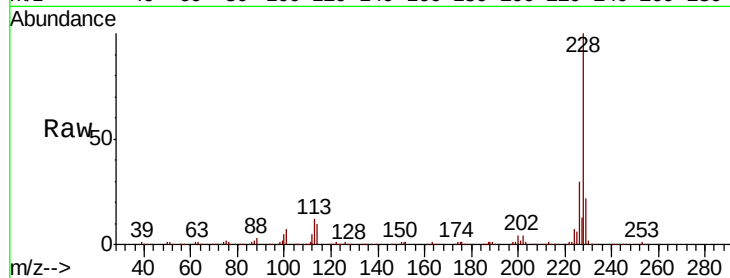
Tgt Ion:228 Resp: 245883

Ion Ratio Lower Upper

228 100

226 30.4 24.7 37.1

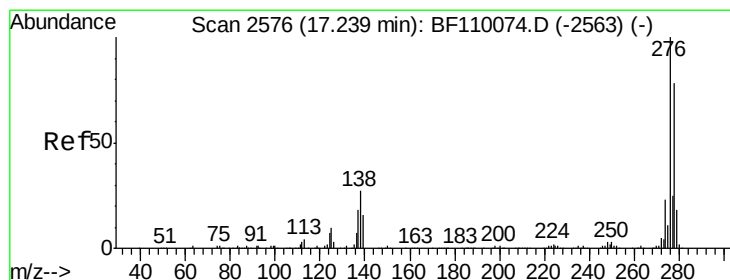
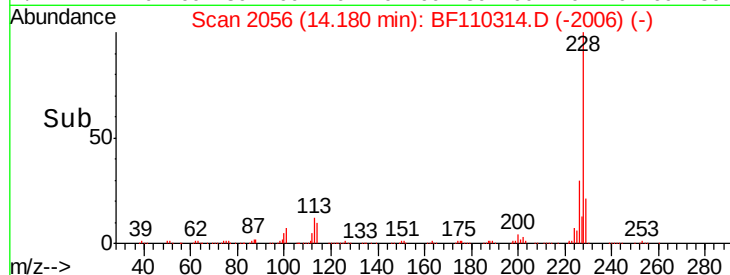
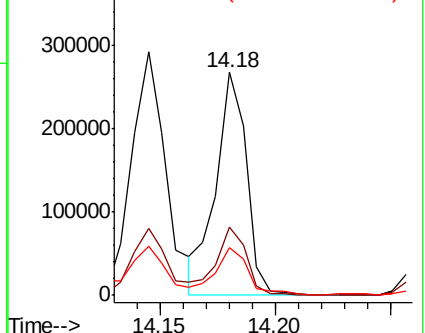
229 21.7 15.9 23.9



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#86

Indeno(1,2,3-cd)pyrene

Concen: 10.577 ng

RT: 17.26 min Scan# 2579

Delta R.T. -0.01 min

Lab File: BF110314.D

Acq: 30 Oct 2018 20:18

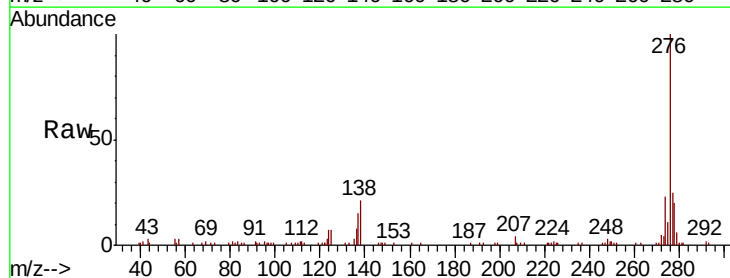
Tgt Ion:276 Resp: 104461

Ion Ratio Lower Upper

276 100

138 22.6 18.5 27.7

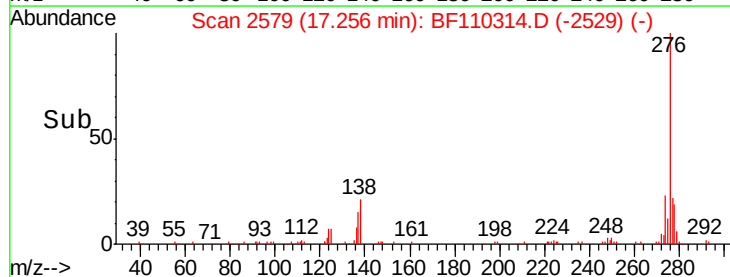
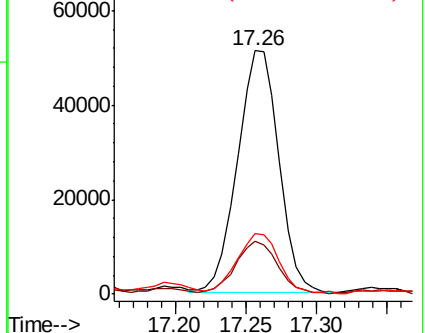
277 26.1 20.0 30.0



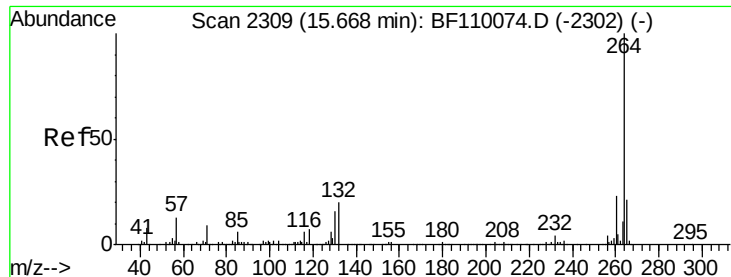
Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





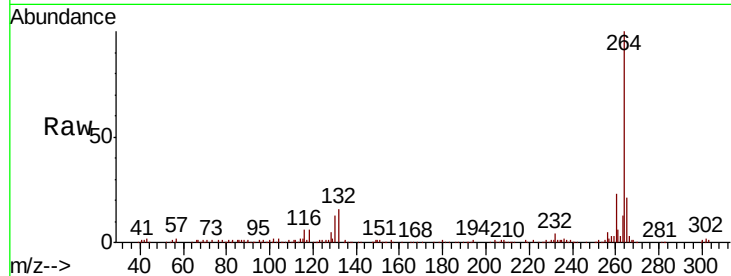


#87  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.69 min Scan# 2313  
Delta R.T. 0.01 min  
Lab File: BF110314.D  
Acq: 30 Oct 2018 20:18

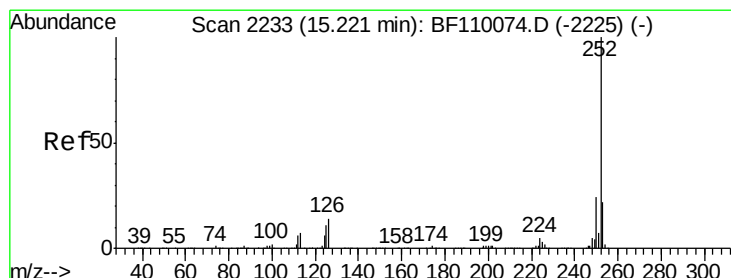
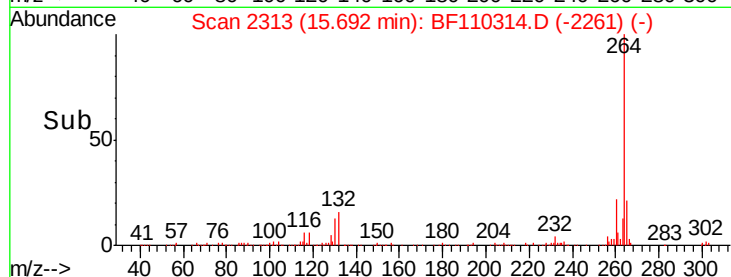
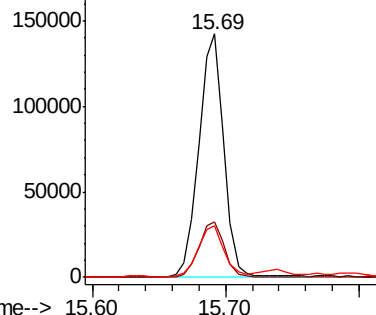
Instrument :  
BNA\_F  
ClientSampleId :  
RED-SHAEDL

Tgt Ion:264 Resp: 187250  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 22.6  | 18.7  | 28.1  |
| 265 | 21.2  | 16.7  | 25.1  |



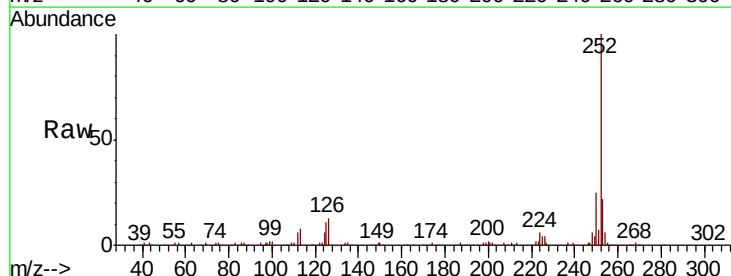
Abundance Ion 264.00 (263.70 to 264.70): E  
Ion 260.00 (259.70 to 260.70): E  
Ion 265.00 (264.70 to 265.70): E



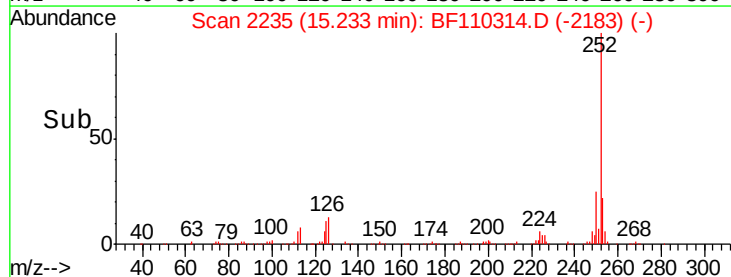
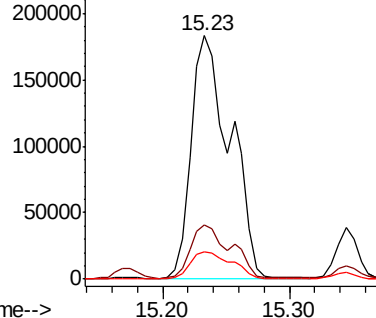
#88  
Benzo(b)fluoranthene  
Concen: 36.319 ng  
RT: 15.23 min Scan# 2235  
Delta R.T. 0.01 min  
Lab File: BF110314.D  
Acq: 30 Oct 2018 20:18

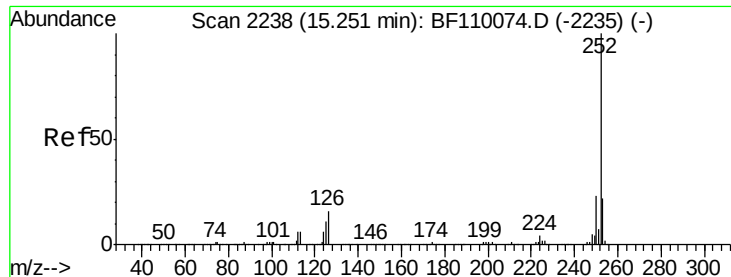
Tgt Ion:252 Resp: 392716  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 22.1  | 17.2  | 25.8  |
| 125 | 11.1  | 8.2   | 12.4  |



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

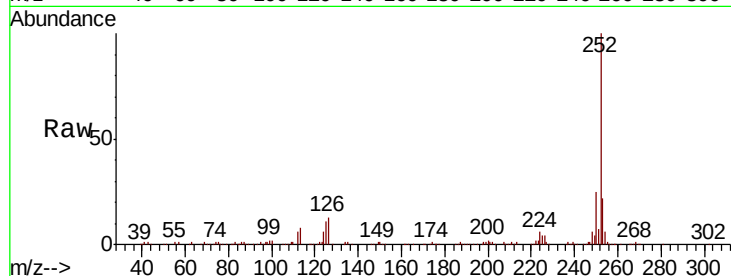




#89  
Benzo(k)fluoranthene  
Concen: 36.943 ng  
RT: 15.23 min Scan# 2235  
Delta R.T. -0.03 min  
Lab File: BF110314.D  
Acq: 30 Oct 2018 20:18

Instrument :  
BNA\_F  
ClientSampleId :  
RED-SHAEDL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.1  | 17.2  | 25.8  |
| 125     | 11.1  | 7.4   | 11.0  |

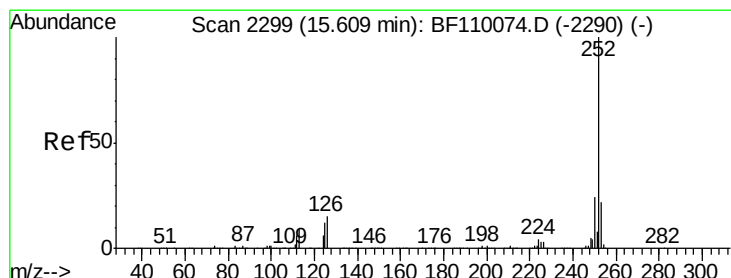
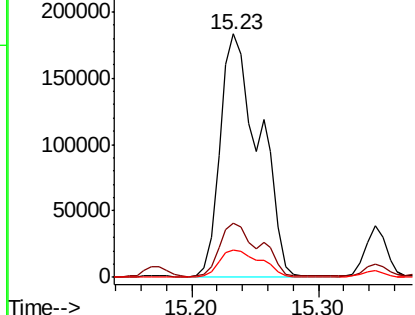
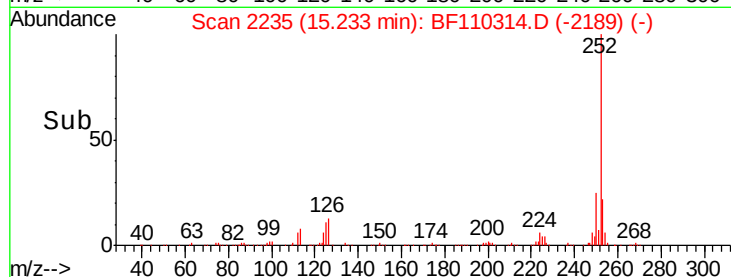


Abundance

Ion 252.00 (251.70 to 252.70): E

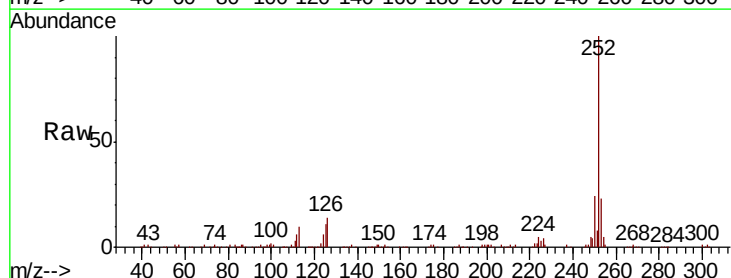
Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#90  
Benzo(a)pyrene  
Concen: 20.747 ng  
RT: 15.62 min Scan# 2301  
Delta R.T. 0.00 min  
Lab File: BF110314.D  
Acq: 30 Oct 2018 20:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.6  | 18.2  | 27.4  |
| 125     | 10.9  | 9.0   | 13.6  |

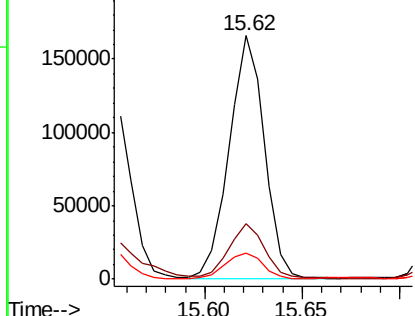
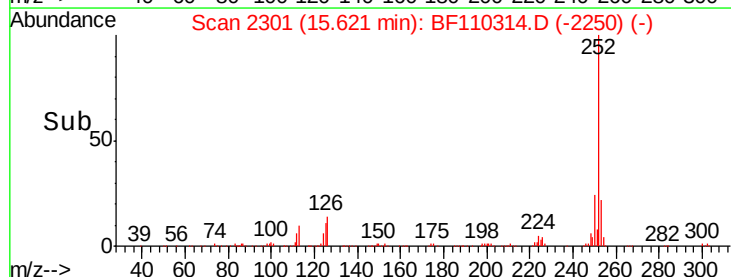


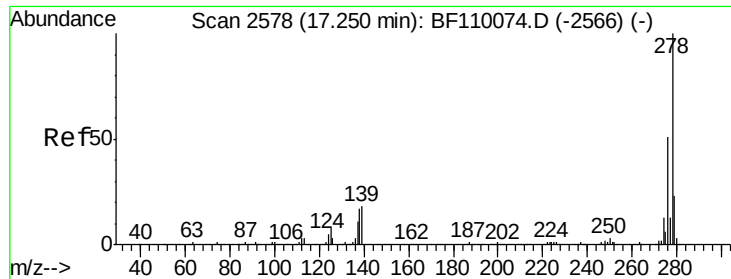
Abundance

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

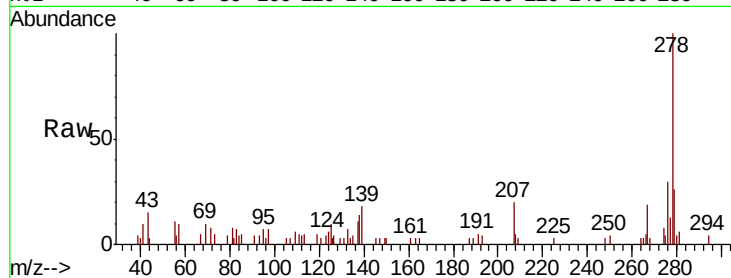




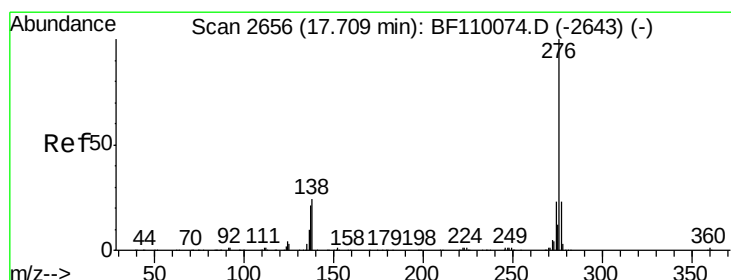
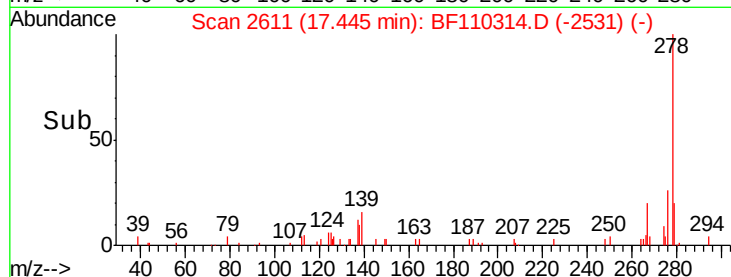
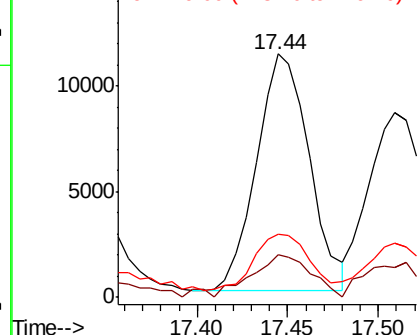
#91  
Dibenzo(a,h)anthracene  
Concen: 2.640 ng  
RT: 17.44 min Scan# 2611  
Delta R.T. 0.17 min  
Lab File: BF110314.D  
Acq: 30 Oct 2018 20:18

Instrument :  
BNA\_F  
ClientSampleId :  
RED-SHAEDL

Tgt Ion: 278 Resp: 22664  
Ion Ratio Lower Upper  
278 100  
139 17.6 12.7 19.1  
279 26.2 19.0 28.4

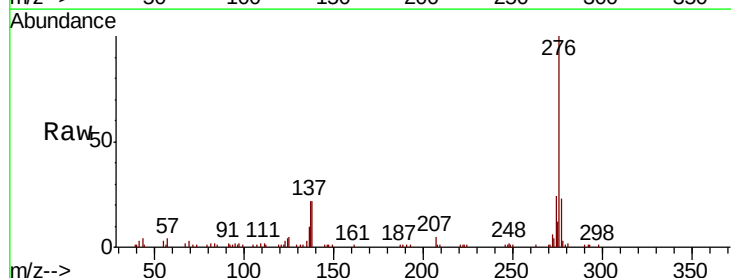


Abundance Ion 278.00 (277.70 to 278.70): E  
Ion 139.00 (138.70 to 139.70): E  
Ion 279.00 (278.70 to 279.70): E



#92  
Benzo(g,h,i)perylene  
Concen: 11.445 ng  
RT: 17.74 min Scan# 2661  
Delta R.T. 0.00 min  
Lab File: BF110314.D  
Acq: 30 Oct 2018 20:18

Tgt Ion: 276 Resp: 96821  
Ion Ratio Lower Upper  
276 100  
277 23.2 18.8 28.2  
138 21.5 16.0 24.0



Abundance Ion 276.00 (275.70 to 276.70): E  
Ion 277.00 (276.70 to 277.70): E  
Ion 138.00 (137.70 to 138.70): E

