

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF112018\  
 Data File : BF110903.D  
 Acq On : 20 Nov 2018 19:18  
 Operator : JU/SJ  
 Sample : J5775-01 5X  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TR-05-111918

Quant Time: Nov 21 04:21:55 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF110818.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Nov 13 12:43:10 2018  
 Response via : Initial Calibration

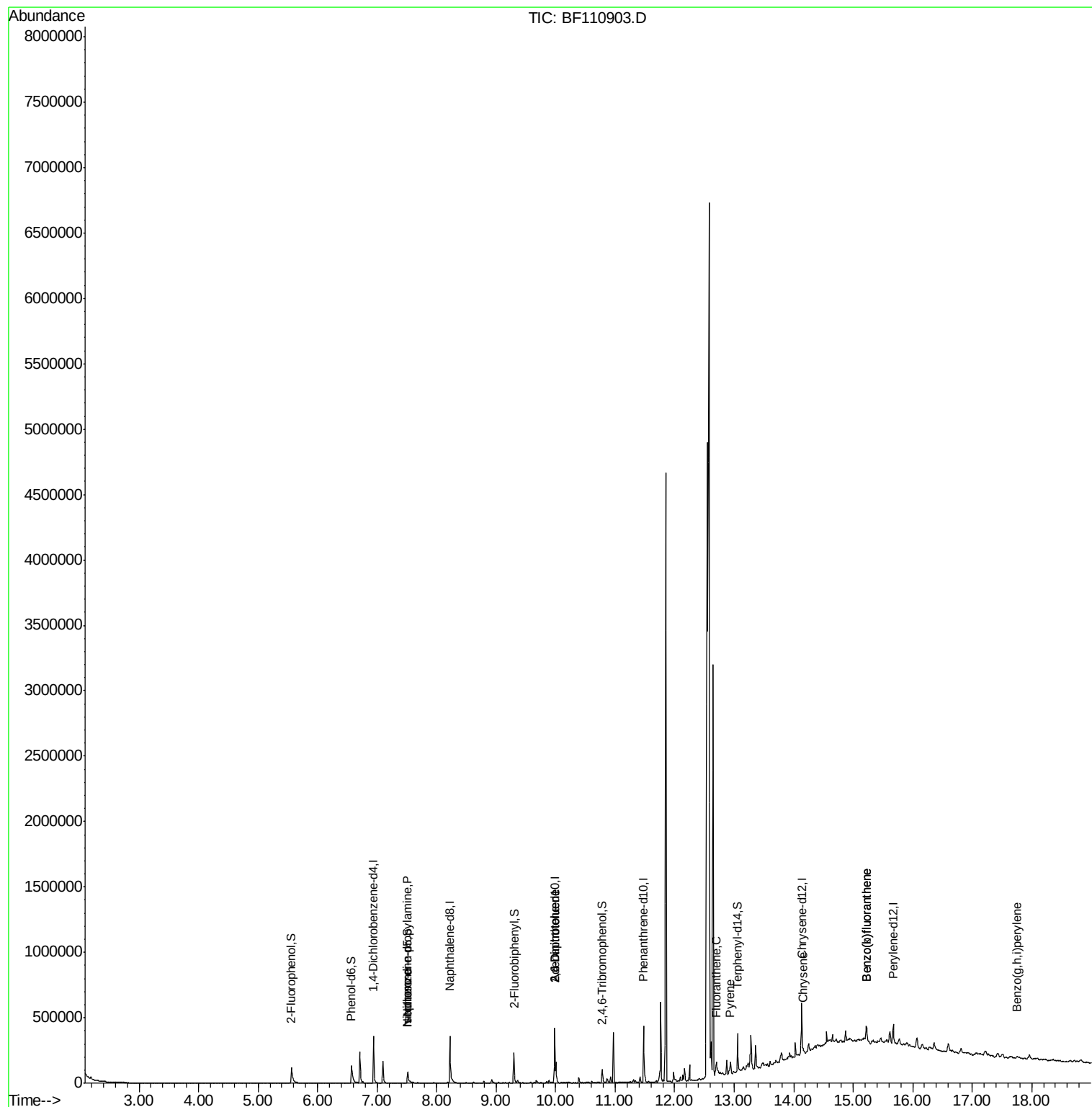
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min)  |
|--------------------------------|-------|------|----------|-----------|-------|-----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.94  | 152  | 58680    | 20.00     | ng    | 0.00      |
| 21) Naphthalene-d8             | 8.22  | 136  | 235755   | 20.00     | ng    | 0.00      |
| 39) Acenaphthene-d10           | 9.99  | 164  | 93579    | 20.00     | ng    | 0.00      |
| 64) Phenanthrene-d10           | 11.48 | 188  | 159888   | 20.00     | ng    | 0.00      |
| 76) Chrysene-d12               | 14.13 | 240  | 124470   | 20.00     | ng    | 0.00      |
| 87) Perylene-d12               | 15.67 | 264  | 84474    | 20.00     | ng    | 0.02      |
| System Monitoring Compounds    |       |      |          |           |       |           |
| 5) 2-Fluorophenol              | 5.56  | 112  | 61289    | 16.97     | ng    | 0.00      |
| 7) Phenol-d6                   | 6.57  | 99   | 78844    | 17.07     | ng    | 0.00      |
| 23) Nitrobenzene-d5            | 7.51  | 82   | 49988    | 12.21     | ng    | 0.00      |
| 42) 2,4,6-Tribromophenol       | 10.79 | 330  | 14184    | 15.04     | ng    | 0.00      |
| 45) 2-Fluorobiphenyl           | 9.30  | 172  | 95671    | 14.60     | ng    | 0.00      |
| 79) Terphenyl-d14              | 13.06 | 244  | 86271    | 12.98     | ng    | 0.00      |
| Target Compounds               |       |      |          |           |       |           |
| 9) Benzaldehyde                | 6.71  | 77   | 1582     | Below Cal |       | Qvalue 82 |
| 19) n-Nitroso-di-n-propylamine | 7.52  | 70   | 6624     | 2.246 ng  | #     | 86        |
| 25) Isophorone                 | 7.51  | 82   | 49988    | 7.450 ng  | #     | 67        |
| 51) 2,6-Dinitrotoluene         | 9.99  | 165  | 12216    | 7.953 ng  | #     | 21        |
| 57) 2,4-Dinitrotoluene         | 9.99  | 165  | 12216    | 6.117 ng  | #     | 17        |
| 75) Fluoranthene               | 12.70 | 202  | 28900    | 3.365 ng  |       | 97        |
| 78) Pyrene                     | 12.94 | 202  | 29446    | 3.072 ng  |       | 98        |
| 83) Chrysene                   | 14.16 | 228  | 16458    | 2.322 ng  | #     | 84        |
| 88) Benzo(b)fluoranthene       | 15.22 | 252  | 18616    | 3.684 ng  | #     | 68        |
| 89) Benzo(k)fluoranthene       | 15.22 | 252  | 18616    | 3.728 ng  | #     | 68        |
| 92) Benzo(g,h,i)perylene       | 17.75 | 276  | 8188     | 2.124 ng  | #     | 76        |

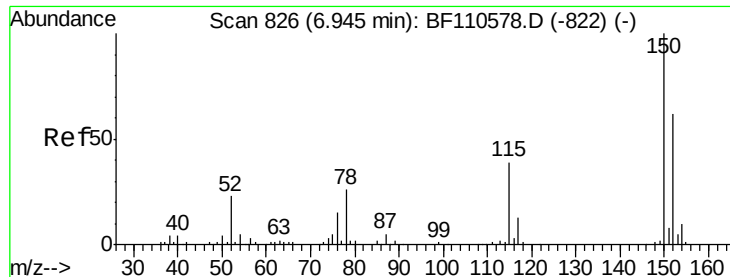
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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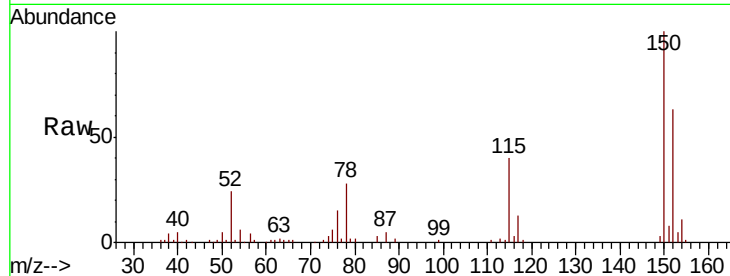




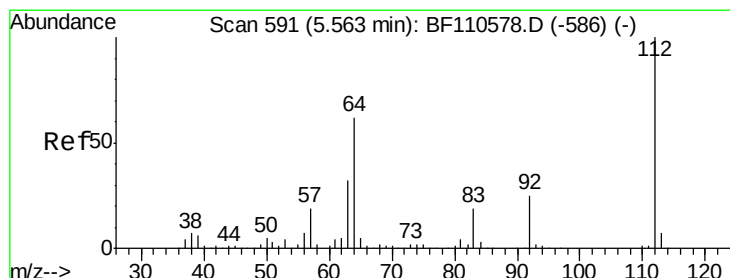
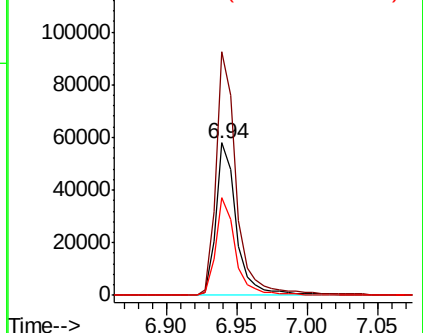
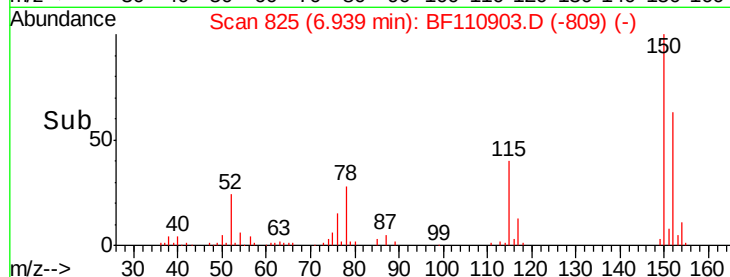
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.94 min Scan# 825  
 Delta R.T. -0.01 min  
 Lab File: BF110903.D  
 Acq: 20 Nov 2018 19:18

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TR-05-111918

Tgt Ion:152 Resp: 58680  
 Ion Ratio Lower Upper  
 152 100  
 150 160.0 122.7 184.1  
 115 64.5 49.1 73.7

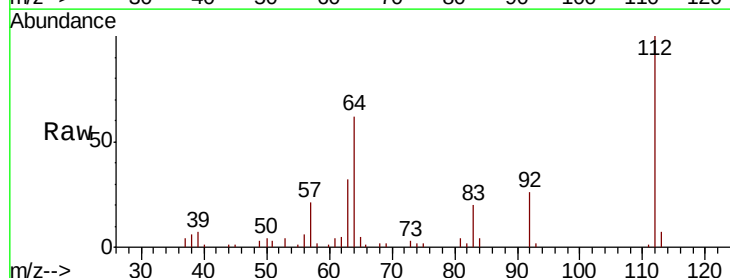


Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E

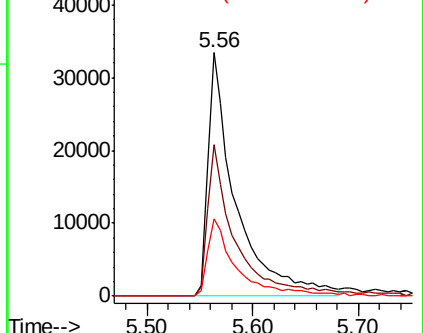
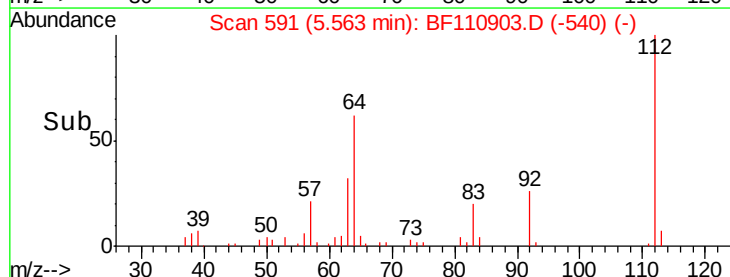


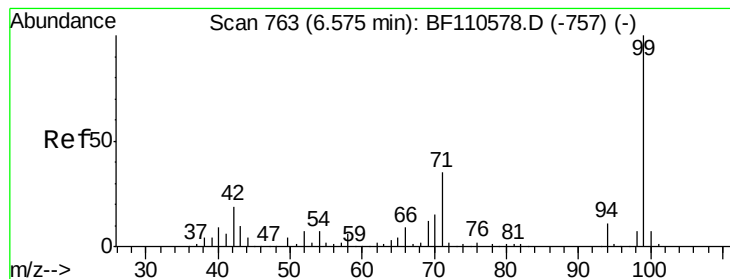
#5  
 2-Fluorophenol  
 Concen: 16.965 ng  
 RT: 5.56 min Scan# 591  
 Delta R.T. -0.00 min  
 Lab File: BF110903.D  
 Acq: 20 Nov 2018 19:18

Tgt Ion:112 Resp: 61289  
 Ion Ratio Lower Upper  
 112 100  
 64 62.3 44.1 66.1  
 63 31.9 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: 17.067 ng

RT: 6.57 min Scan# 762

Delta R.T. -0.01 min

Lab File: BF110903.D

Acq: 20 Nov 2018 19:18

Instrument :

BNA\_F

ClientSampleId :

TR-05-111918

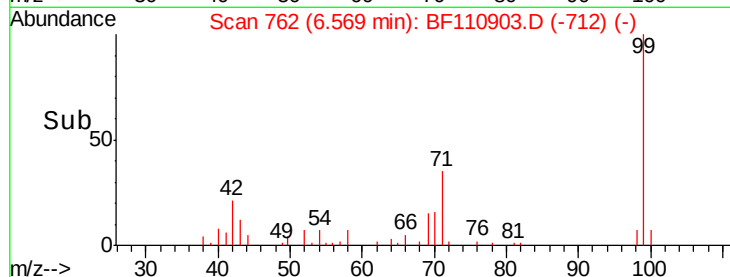
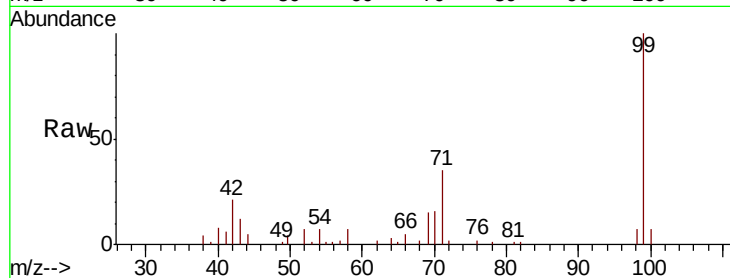
Tgt Ion: 99 Resp: 78844

Ion Ratio Lower Upper

99 100

42 20.8 15.8 23.6

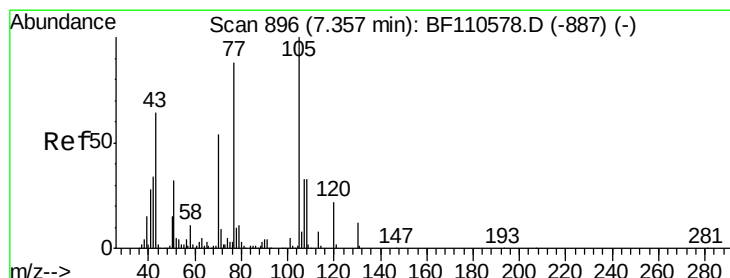
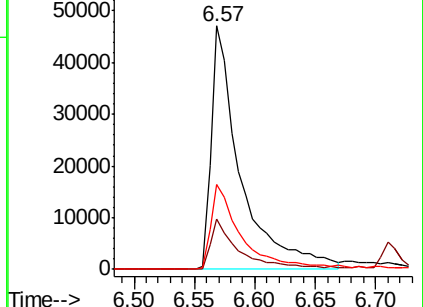
71 34.9 28.0 42.0



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



#19

n-Nitroso-di-n-propylamine

Concen: 2.246 ng

RT: 7.52 min Scan# 923

Delta R.T. 0.16 min

Lab File: BF110903.D

Acq: 20 Nov 2018 19:18

Tgt Ion: 70 Resp: 6624

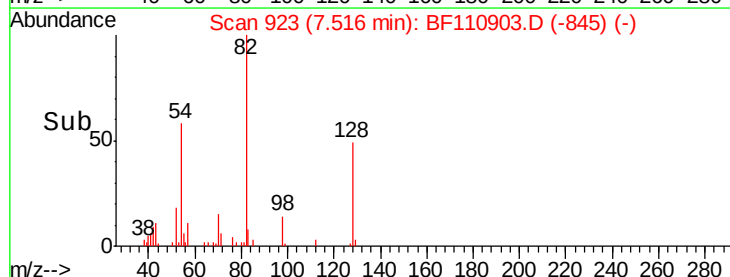
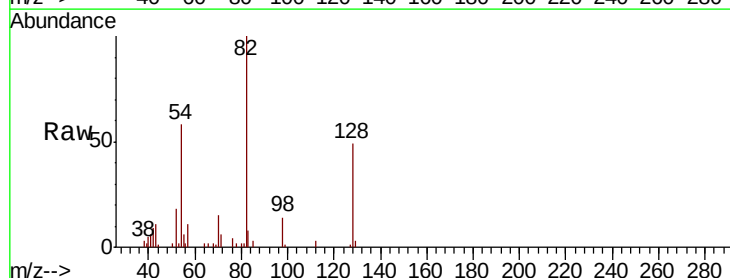
Ion Ratio Lower Upper

70 100

42 57.3 47.4 71.2

101 0.0 7.3 10.9#

130 0.0 16.2 24.2#

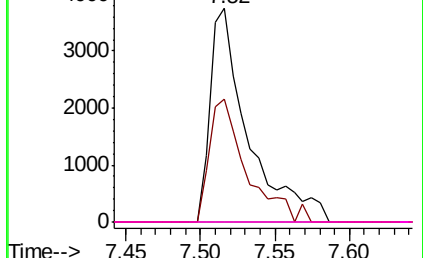


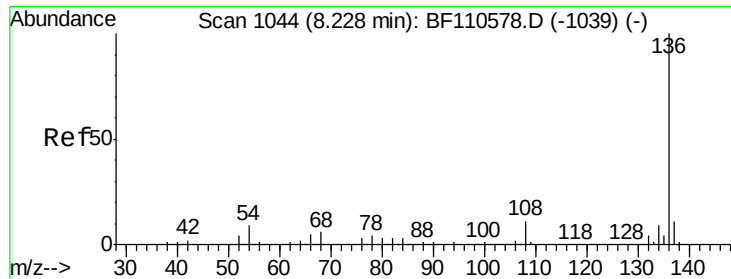
Abundance Ion 70.00 (69.70 to 70.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 101.00 (100.70 to 101.70): BF1

Ion 130.00 (129.70 to 130.70): BF1

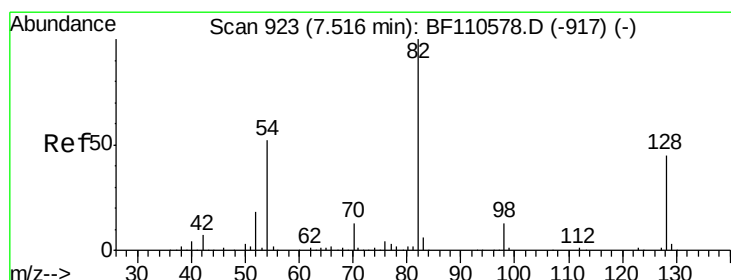
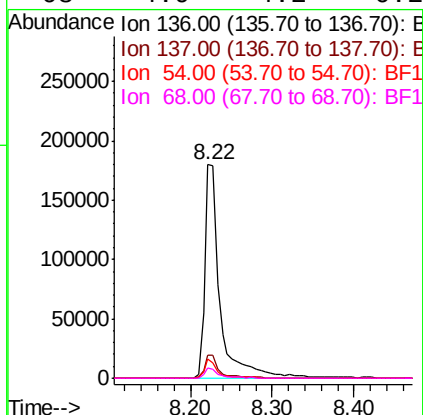
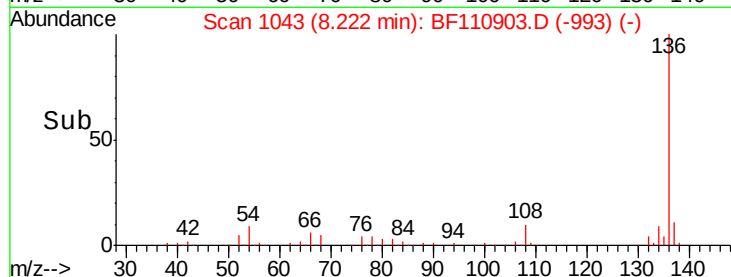
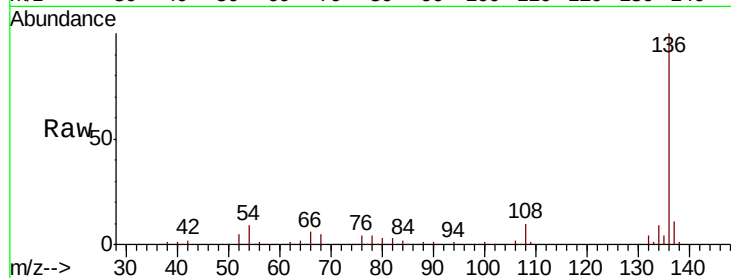




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.22 min Scan# 1043  
Delta R.T. -0.01 min  
Lab File: BF110903.D  
Acq: 20 Nov 2018 19:18

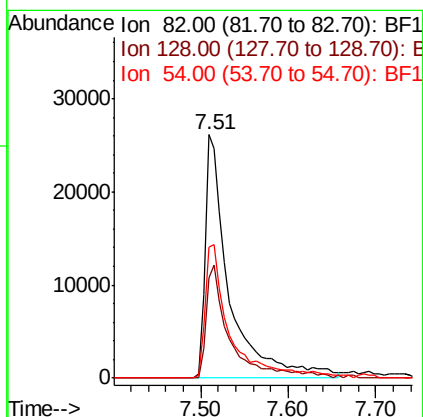
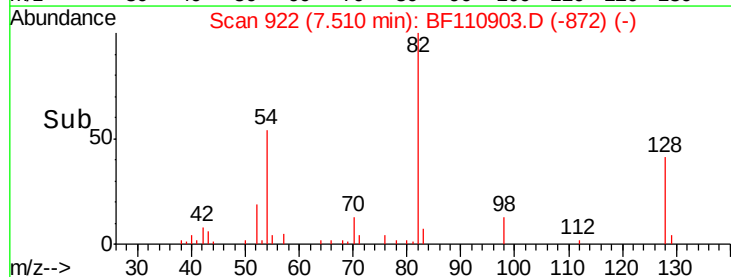
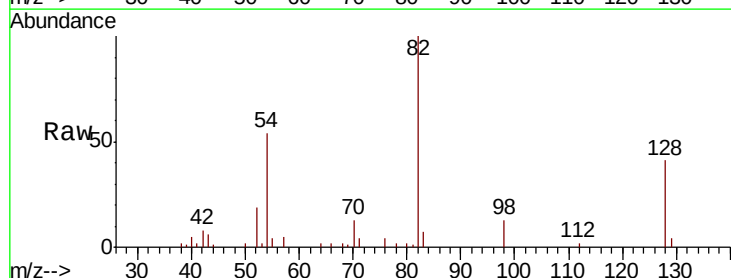
Instrument :  
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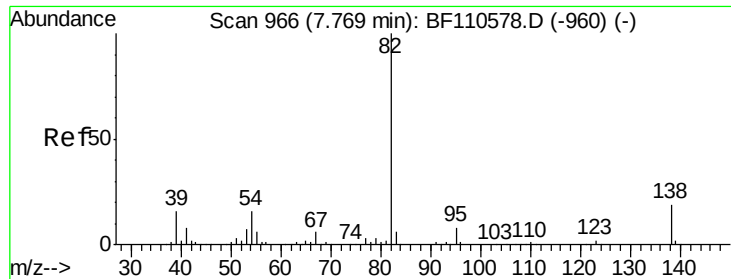
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 235755 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.0  | 8.8   | 13.2   |
| 54       | 8.8   | 5.4   | 8.2#   |
| 68       | 4.9   | 4.2   | 6.2    |



#23  
Nitrobenzene-d5  
Concen: 12.211 ng  
RT: 7.51 min Scan# 922  
Delta R.T. -0.01 min  
Lab File: BF110903.D  
Acq: 20 Nov 2018 19:18

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 49988 |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 41.4  | 34.2  | 51.2  |
| 54       | 54.0  | 38.6  | 58.0  |





#25

Isophorone

Concen: 7.450 ng

RT: 7.51 min Scan# 922

Delta R.T. -0.26 min

Lab File: BF110903.D

Acq: 20 Nov 2018 19:18

Instrument :

BNA\_F

ClientSampleId :

TR-05-111918

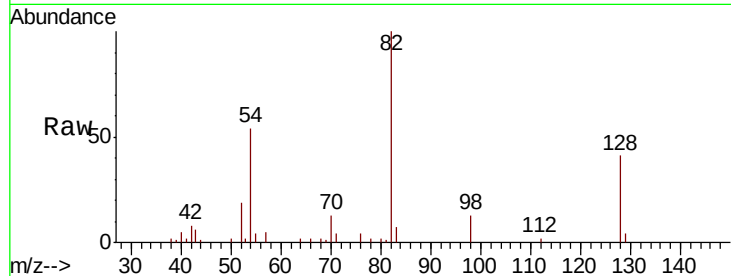
Tgt Ion: 82 Resp: 49988

Ion Ratio Lower Upper

82 100

95 0.0 5.7 8.5#

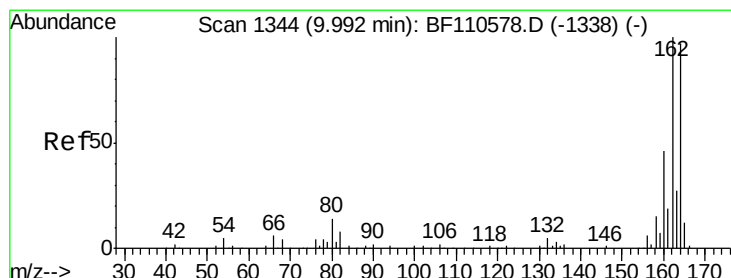
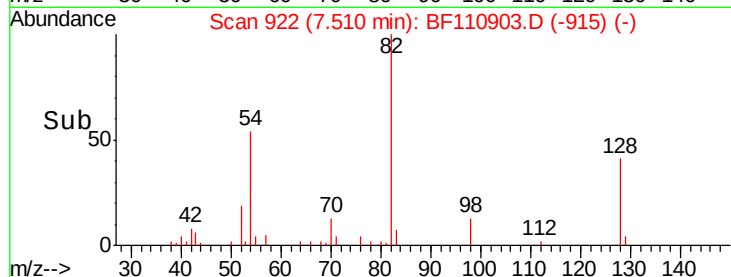
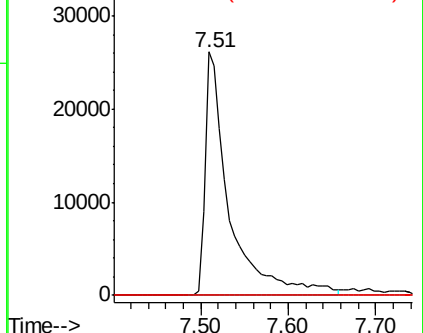
138 0.0 13.2 19.8#



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: 9.99 min Scan# 1343

Delta R.T. -0.01 min

Lab File: BF110903.D

Acq: 20 Nov 2018 19:18

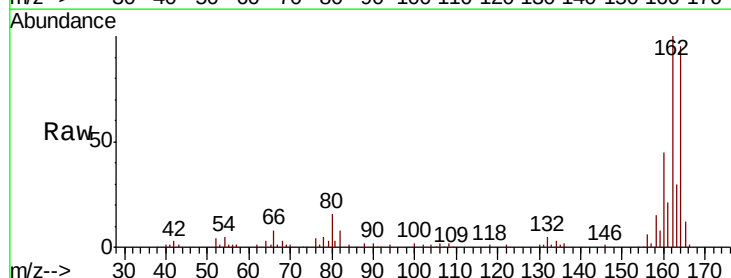
Tgt Ion: 164 Resp: 93579

Ion Ratio Lower Upper

164 100

162 105.7 83.0 124.6

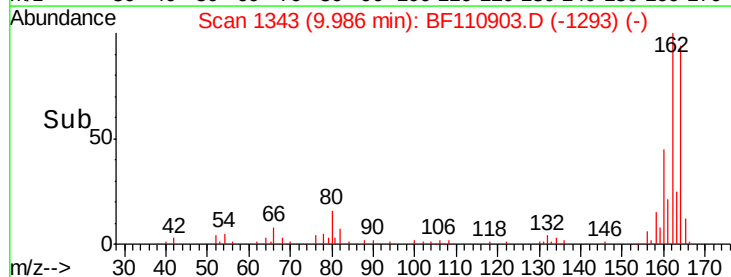
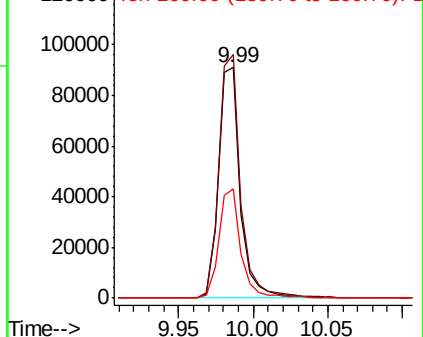
160 47.6 37.0 55.6

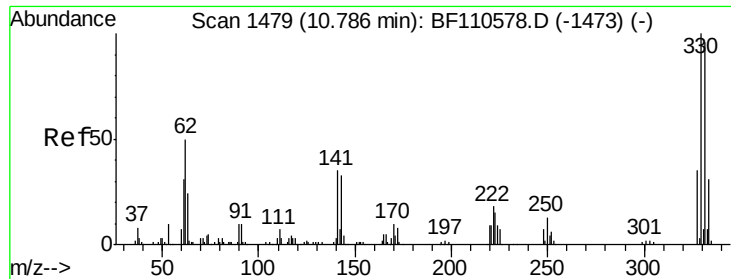


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

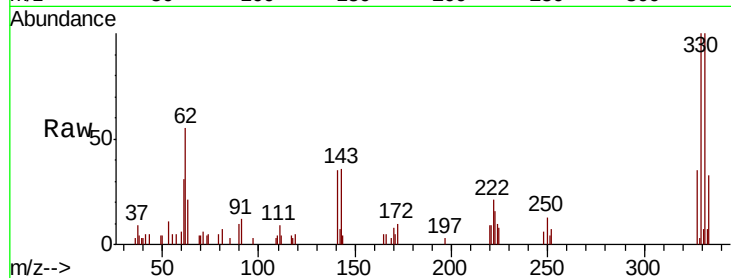




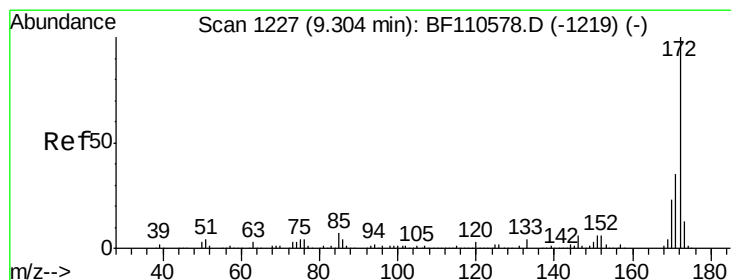
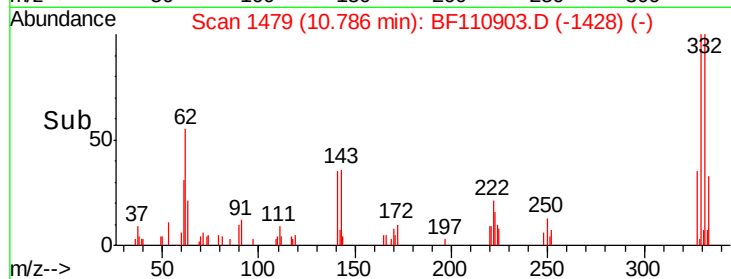
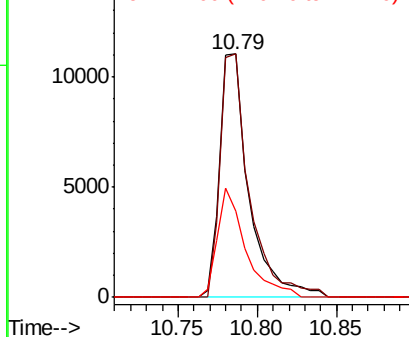
#42  
 2,4,6-Tribromophenol  
 Concen: 15.043 ng  
 RT: 10.79 min Scan# 1479  
 Delta R.T. -0.00 min  
 Lab File: BF110903.D  
 Acq: 20 Nov 2018 19:18

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TR-05-111918

Tgt Ion: 330 Resp: 14184  
 Ion Ratio Lower Upper  
 330 100  
 332 99.7 77.1 115.7  
 141 43.3 27.0 40.4#

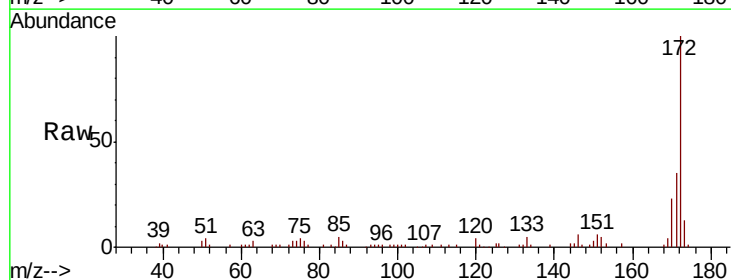


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

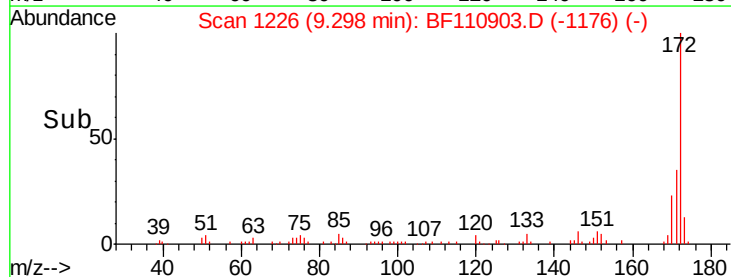
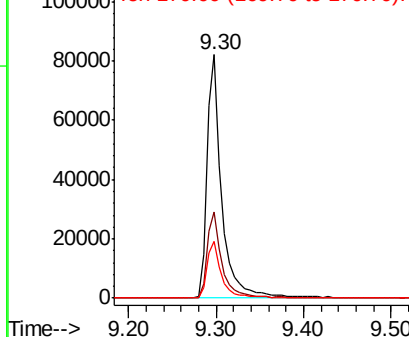


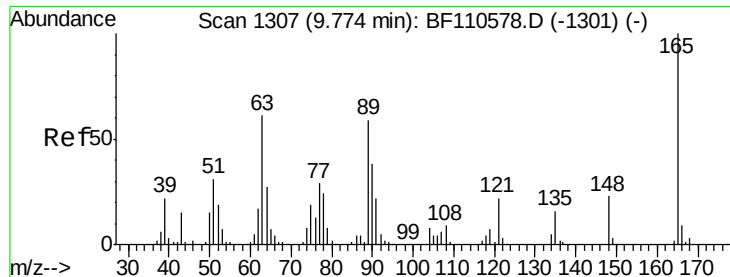
#45  
 2-Fluorobiphenyl  
 Concen: 14.601 ng  
 RT: 9.30 min Scan# 1226  
 Delta R.T. -0.01 min  
 Lab File: BF110903.D  
 Acq: 20 Nov 2018 19:18

Tgt Ion: 172 Resp: 95671  
 Ion Ratio Lower Upper  
 172 100  
 171 35.5 28.6 43.0  
 170 23.1 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

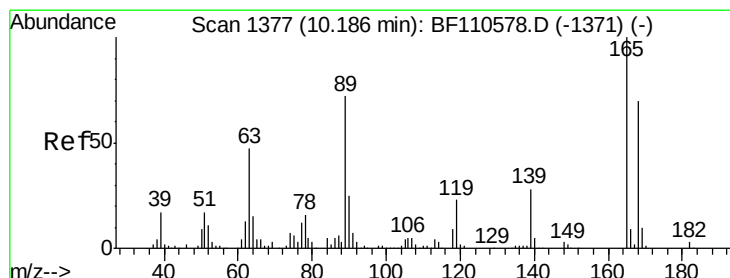
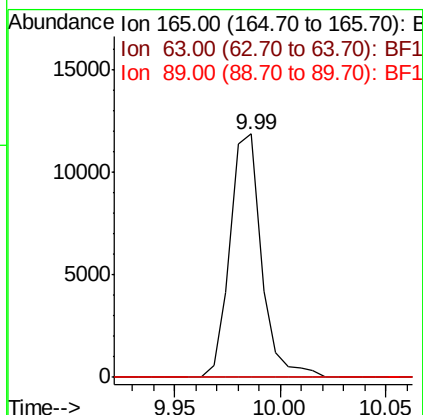
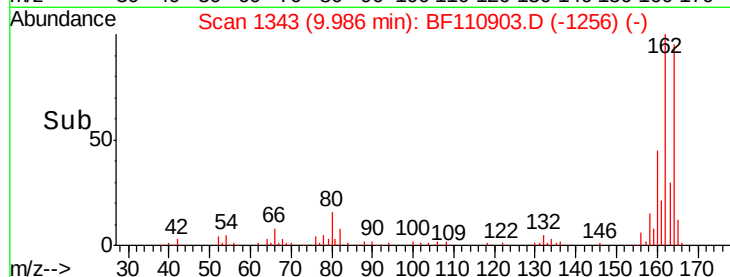
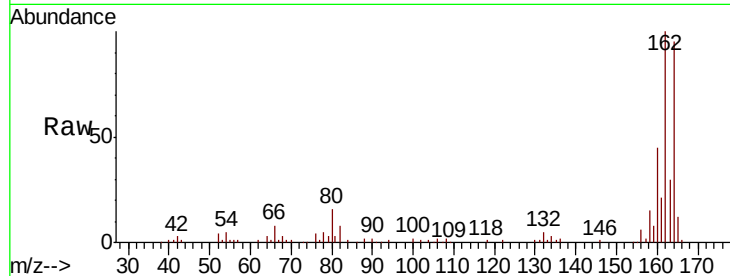




#51  
 2,6-Dinitrotoluene  
 Concen: 7.953 ng  
 RT: 9.99 min Scan# 1343  
 Delta R.T. 0.21 min  
 Lab File: BF110903.D  
 Acq: 20 Nov 2018 19:18

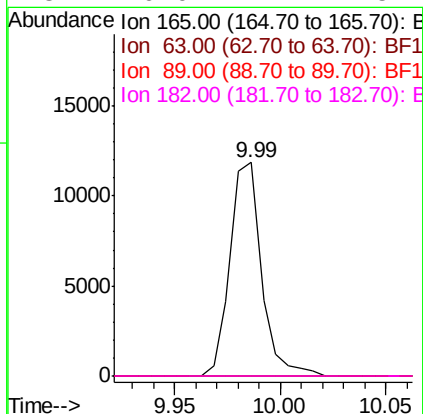
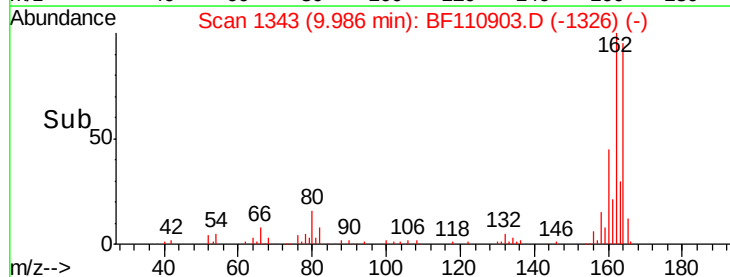
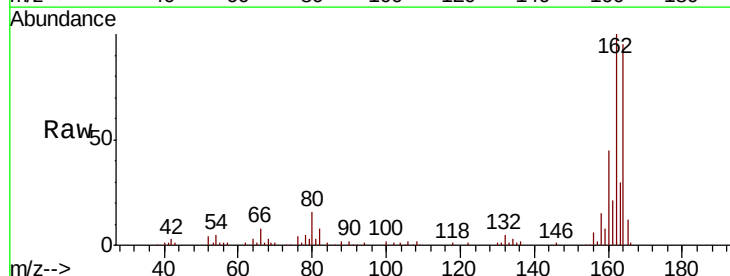
Instrument :  
 BNA\_F  
 ClientSampleId :  
 TR-05-111918

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 48.9  | 73.3# |
| 89      | 0.0   | 46.6  | 69.8# |

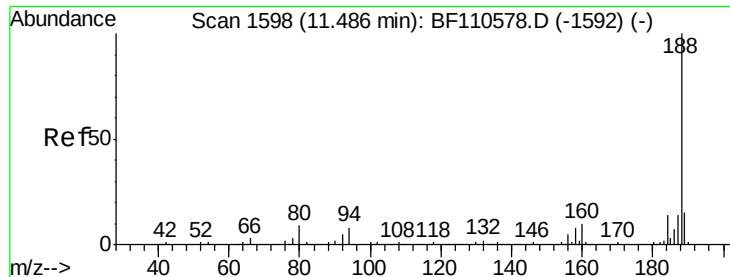


#57  
 2,4-Dinitrotoluene  
 Concen: 6.117 ng  
 RT: 9.99 min Scan# 1343  
 Delta R.T. -0.20 min  
 Lab File: BF110903.D  
 Acq: 20 Nov 2018 19:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 44.8  | 67.2# |
| 89      | 0.0   | 62.2  | 93.4# |
| 182     | 0.0   | 2.1   | 3.1#  |







#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.48 min Scan# 1597

Delta R.T. -0.01 min

Lab File: BF110903.D

Acq: 20 Nov 2018 19:18

Instrument :

BNA\_F

ClientSampleId :

TR-05-111918

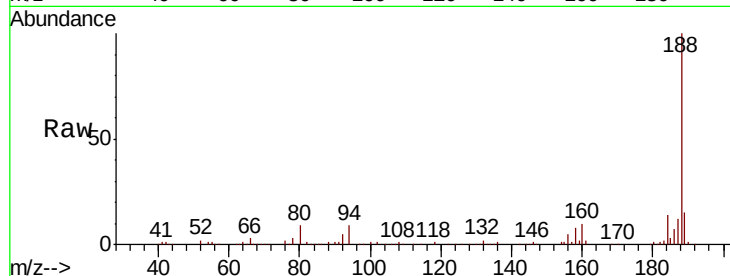
Tgt Ion:188 Resp: 159888

Ion Ratio Lower Upper

188 100

94 8.5 7.2 10.8

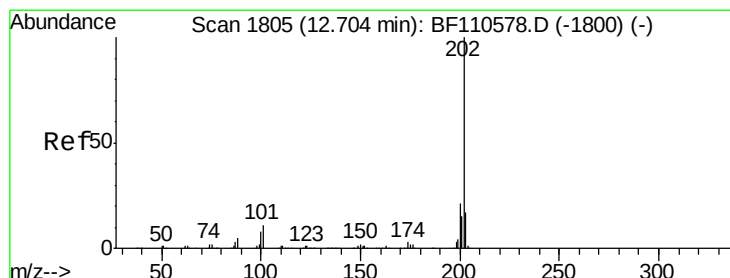
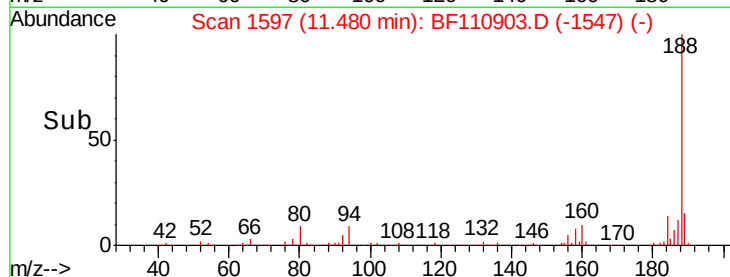
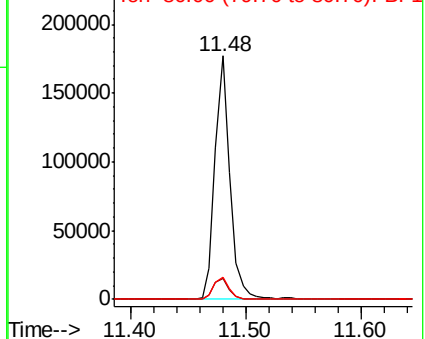
80 9.0 7.9 11.9



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1



#75

Fluoranthene

Concen: 3.365 ng

RT: 12.70 min Scan# 1805

Delta R.T. -0.00 min

Lab File: BF110903.D

Acq: 20 Nov 2018 19:18

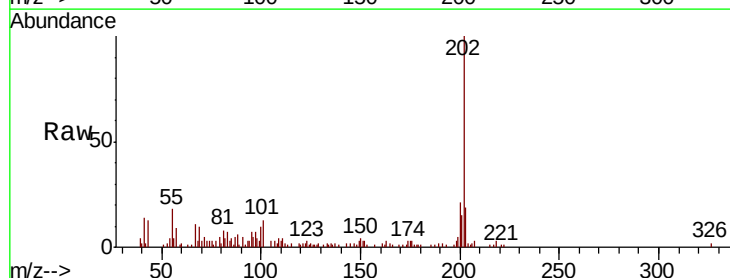
Tgt Ion:202 Resp: 28900

Ion Ratio Lower Upper

202 100

101 13.3 0.0 31.4

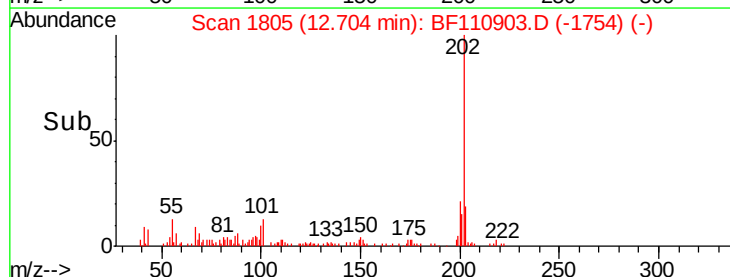
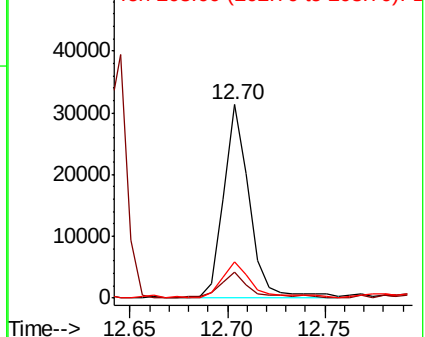
203 18.6 0.0 37.7

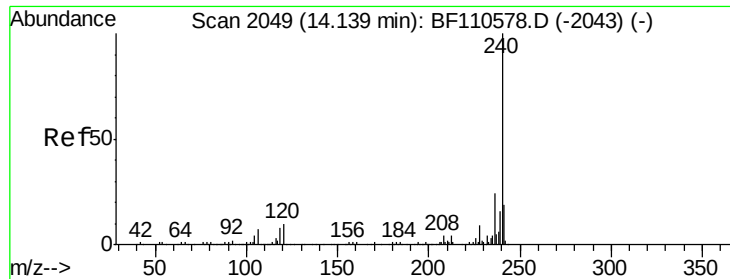


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

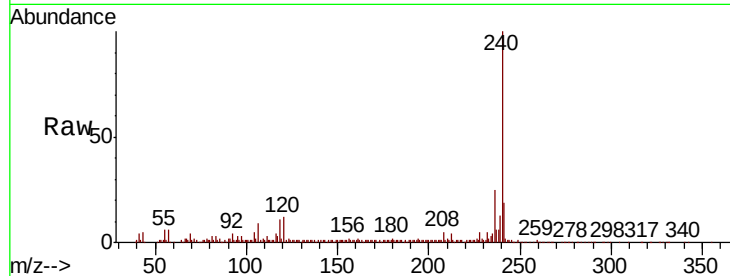




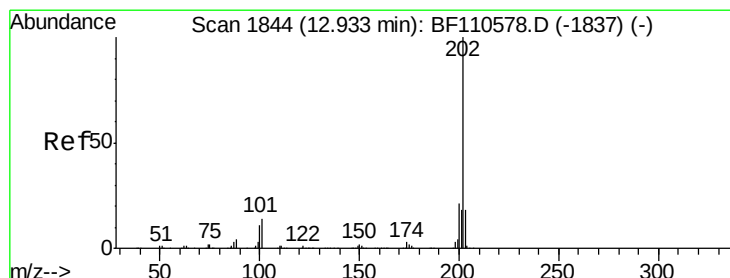
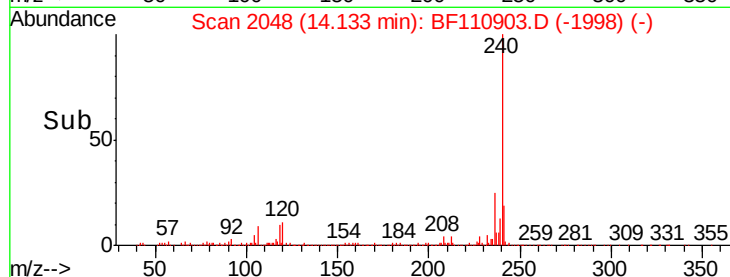
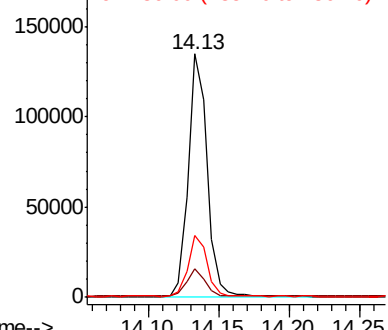
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.13 min Scan# 2048  
Delta R.T. -0.01 min  
Lab File: BF110903.D  
Acq: 20 Nov 2018 19:18

Instrument :  
BNA\_F  
ClientSampleId :  
TR-05-111918

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 11.8  | 8.3   | 12.5  |
| 236     | 25.2  | 21.2  | 31.8  |

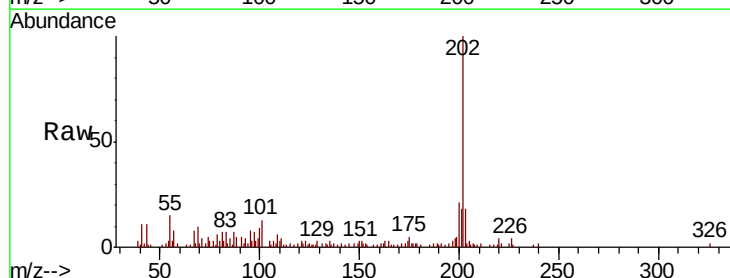


Abundance Ion 240.00 (239.70 to 240.70): E  
Ion 120.00 (119.70 to 120.70): E  
Ion 236.00 (235.70 to 236.70): E

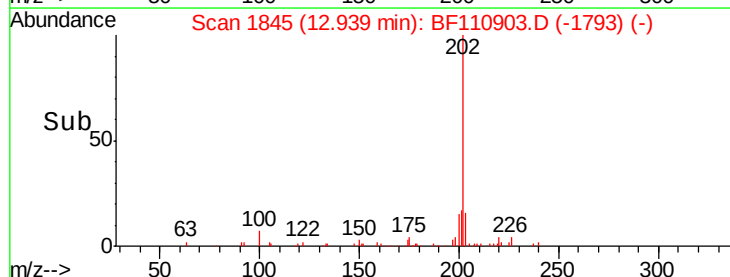
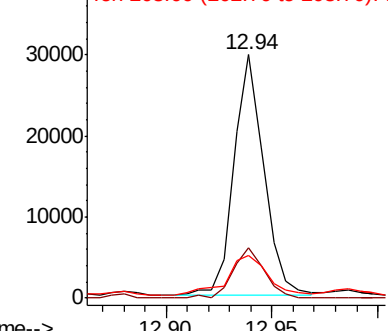


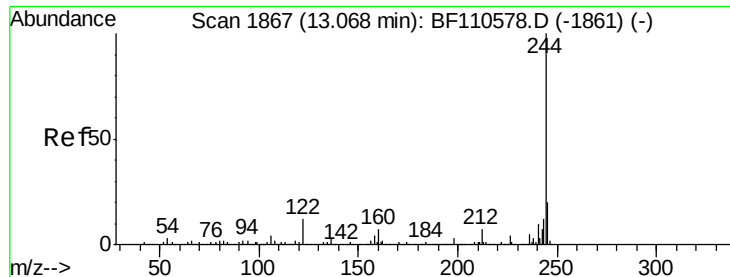
#78  
Pyrene  
Concen: 3.072 ng  
RT: 12.94 min Scan# 1845  
Delta R.T. 0.01 min  
Lab File: BF110903.D  
Acq: 20 Nov 2018 19:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 20.7  | 17.8  | 26.6  |
| 203     | 17.6  | 14.2  | 21.4  |



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: 12.980 ng

RT: 13.06 min Scan# 1866

Delta R.T. -0.01 min

Lab File: BF110903.D

Acq: 20 Nov 2018 19:18

Instrument :

BNA\_F

ClientSampleId :

TR-05-111918

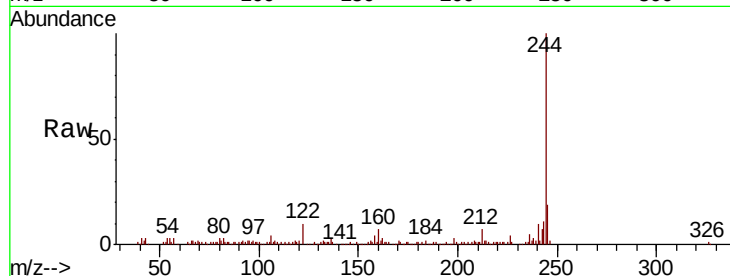
Tgt Ion:244 Resp: 86271

Ion Ratio Lower Upper

244 100

212 6.5 5.8 8.8

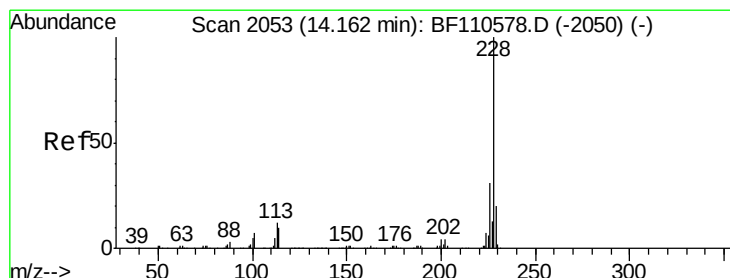
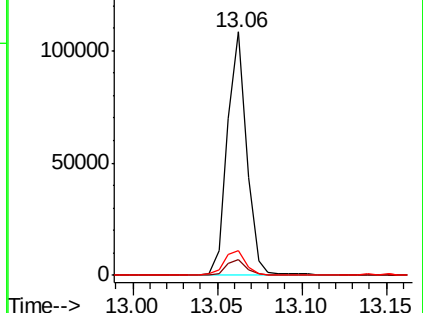
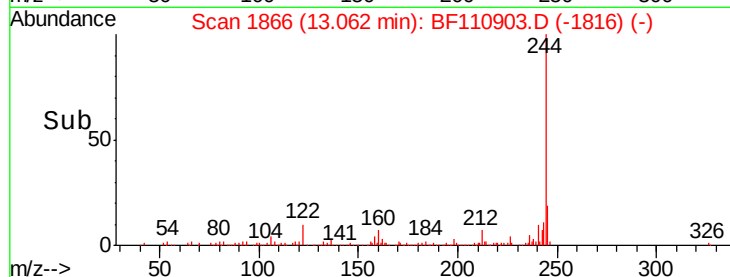
122 10.2 8.7 13.1



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



#83

Chrysene

Concen: 2.322 ng

RT: 14.16 min Scan# 2053

Delta R.T. -0.00 min

Lab File: BF110903.D

Acq: 20 Nov 2018 19:18

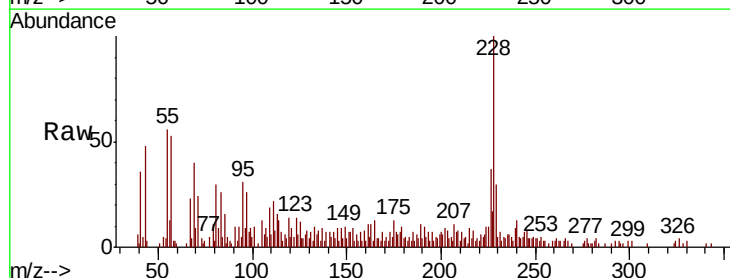
Tgt Ion:228 Resp: 16458

Ion Ratio Lower Upper

228 100

226 37.5 24.7 37.1#

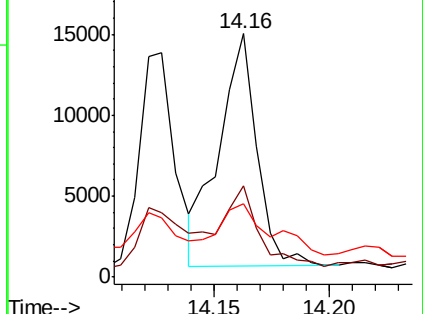
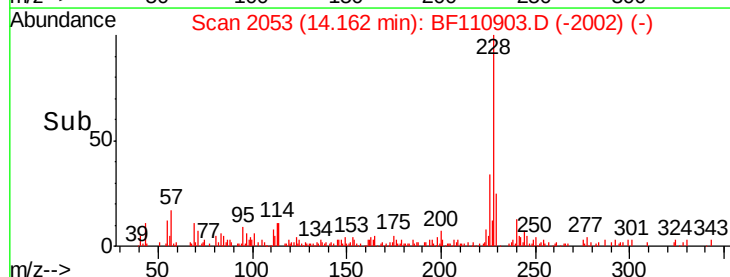
229 30.2 15.9 23.9#

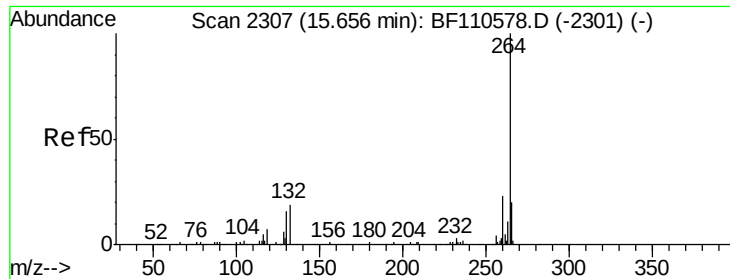


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

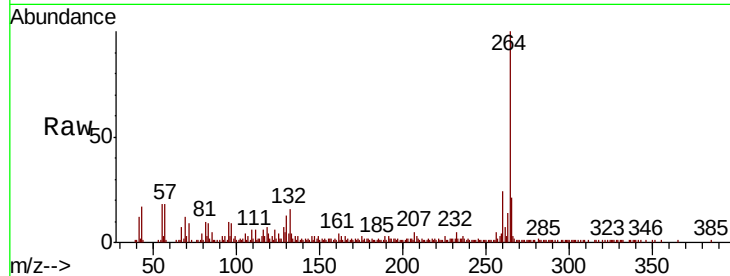




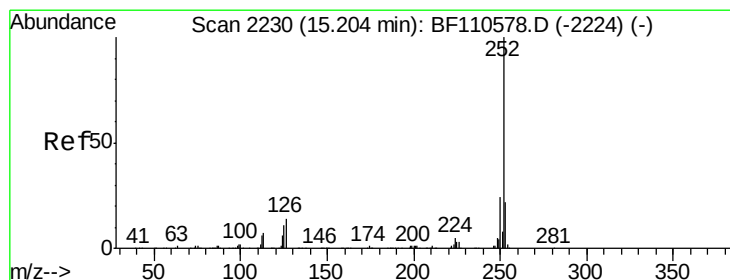
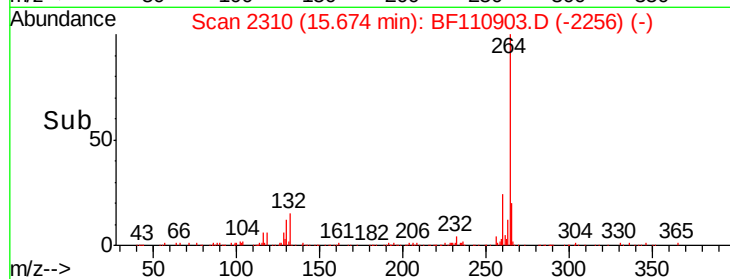
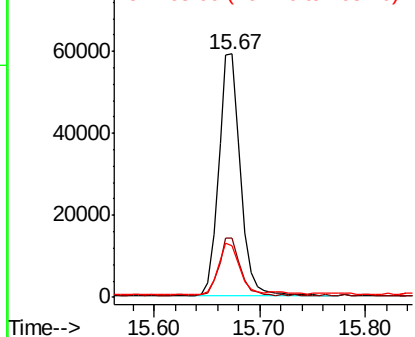
#87  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.67 min Scan# 2310  
Delta R.T. 0.02 min  
Lab File: BF110903.D  
Acq: 20 Nov 2018 19:18

Instrument :  
BNA\_F  
ClientSampleId :  
TR-05-111918

Tgt Ion:264 Resp: 84474  
Ion Ratio Lower Upper  
264 100  
260 24.5 18.7 28.1  
265 21.1 16.7 25.1

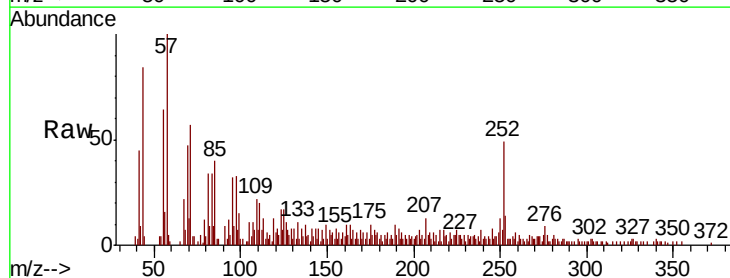


Abundance Ion 264.00 (263.70 to 264.70): E  
Ion 260.00 (259.70 to 260.70): E  
Ion 265.00 (264.70 to 265.70): E

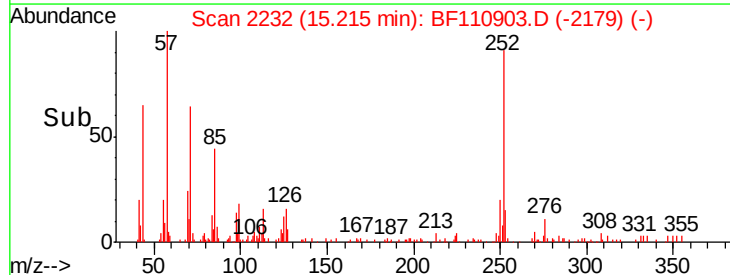
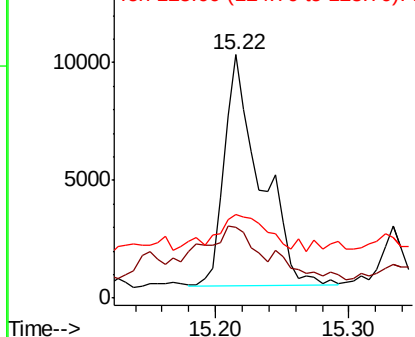


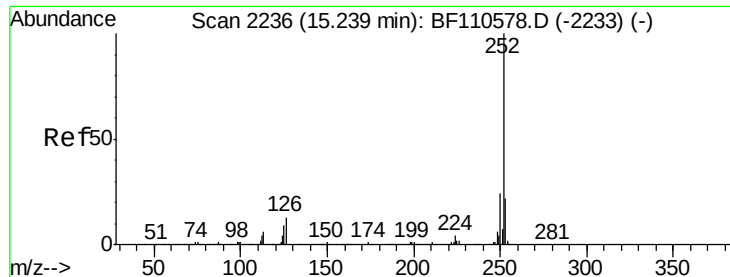
#88  
Benzo(b)fluoranthene  
Concen: 3.684 ng  
RT: 15.22 min Scan# 2232  
Delta R.T. 0.01 min  
Lab File: BF110903.D  
Acq: 20 Nov 2018 19:18

Tgt Ion:252 Resp: 18616  
Ion Ratio Lower Upper  
252 100  
253 29.2 17.2 25.8#  
125 34.1 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: 3.728 ng

RT: 15.22 min Scan# 2232

Delta R.T. -0.02 min

Lab File: BF110903.D

Acq: 20 Nov 2018 19:18

Instrument :

BNA\_F

ClientSampleId :

TR-05-111918

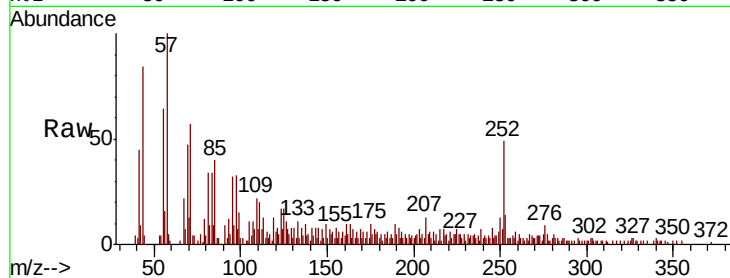
Tgt Ion:252 Resp: 18616

Ion Ratio Lower Upper

252 100

253 29.2 17.2 25.8#

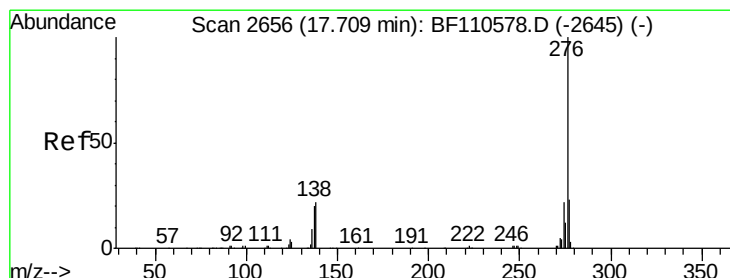
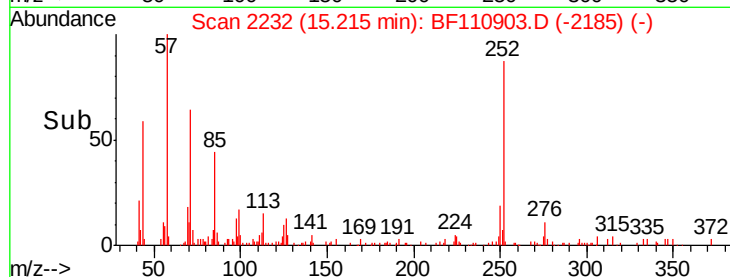
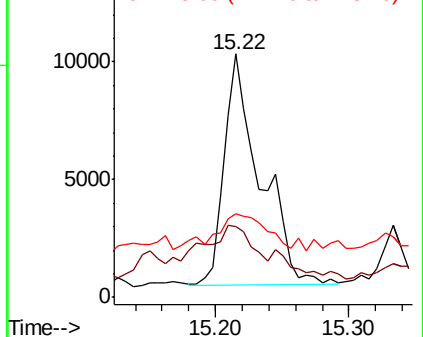
125 34.1 7.4 11.0#



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



#92

Benzo(g,h,i)perylene

Concen: 2.124 ng

RT: 17.75 min Scan# 2663

Delta R.T. 0.04 min

Lab File: BF110903.D

Acq: 20 Nov 2018 19:18

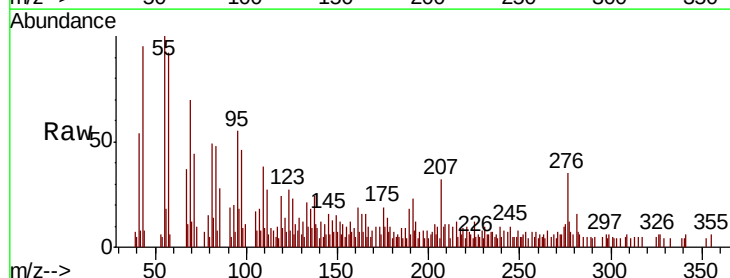
Tgt Ion:276 Resp: 8188

Ion Ratio Lower Upper

276 100

277 34.0 18.8 28.2#

138 32.2 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

