

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF120618\  
 Data File : BF111157.D  
 Acq On : 7 Dec 2018 00:00  
 Operator : JU/SJ  
 Sample : J6206-13  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Dec 07 02:10:37 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF120518.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Dec 05 17:30:55 2018  
 Response via : Initial Calibration

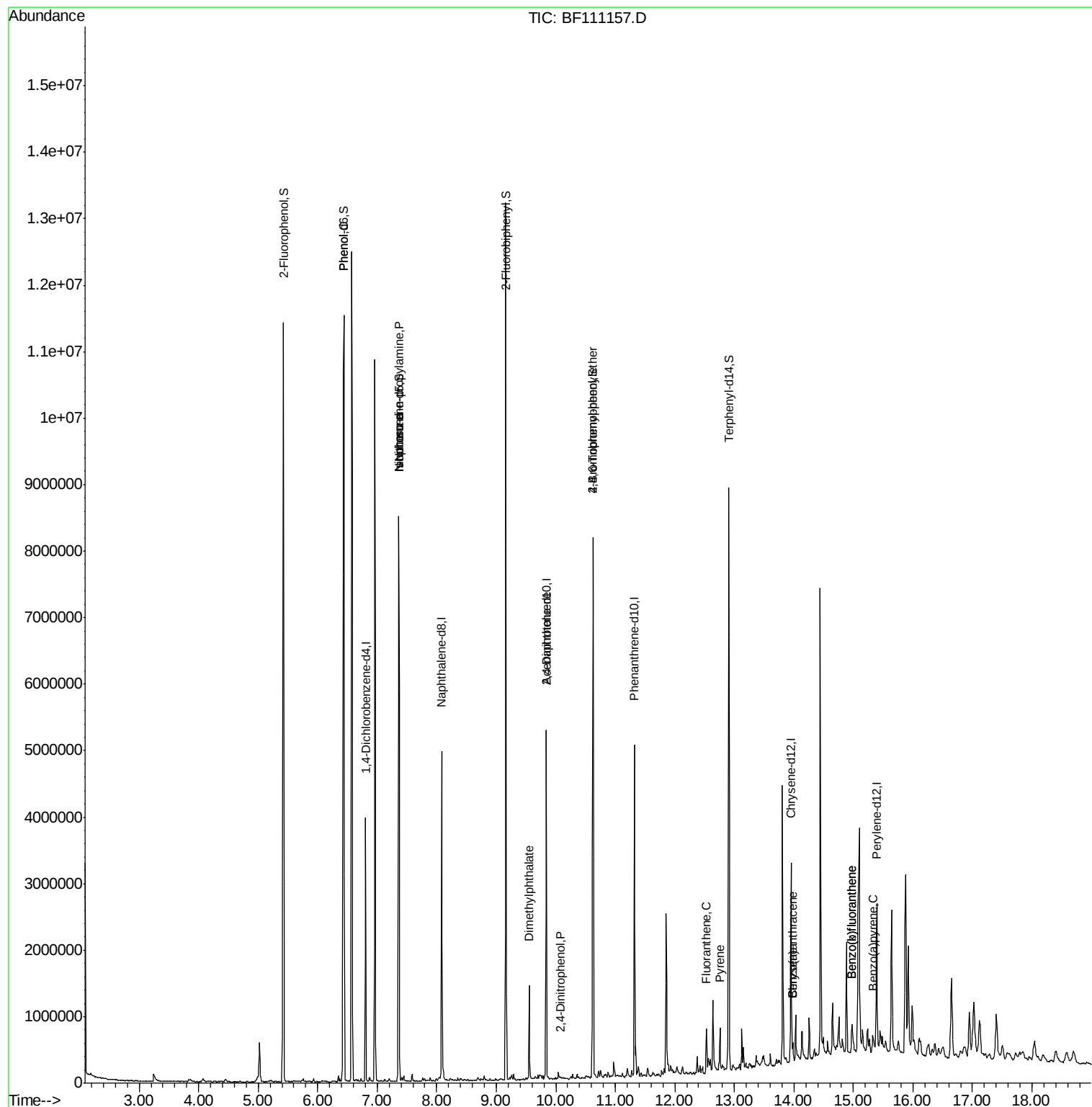
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.80  | 152  | 502239   | 20.00     | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.09  | 136  | 1977037  | 20.00     | ng    | 0.00     |
| 39) Acenaphthene-d10           | 9.84  | 164  | 948000   | 20.00     | ng    | 0.00     |
| 64) Phenanthrene-d10           | 11.32 | 188  | 1544331  | 20.00     | ng    | 0.00     |
| 76) Chrysene-d12               | 13.96 | 240  | 914378   | 20.00     | ng    | 0.00     |
| 87) Perylene-d12               | 15.39 | 264  | 948203   | 20.00     | ng    | 0.01     |
| System Monitoring Compounds    |       |      |          |           |       |          |
| 5) 2-Fluorophenol              | 5.43  | 112  | 3268103  | 101.54    | ng    | 0.01     |
| 7) Phenol-d6                   | 6.44  | 99   | 4129379  | 99.60     | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.36  | 82   | 2696456  | 80.75     | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol       | 10.63 | 330  | 858775   | 113.96    | ng    | 0.00     |
| 45) 2-Fluorobiphenyl           | 9.16  | 172  | 3968392  | 75.96     | ng    | 0.00     |
| 79) Terphenyl-d14              | 12.91 | 244  | 2678414  | 59.99     | ng    | 0.00     |
| Target Compounds               |       |      |          |           |       |          |
| 9) Benzaldehyde                | 6.35  | 77   | 15188    | Below Cal |       | 97       |
| 10) Phenol                     | 6.45  | 94   | 317470   | 7.023 ng  |       | 100      |
| 19) n-Nitroso-di-n-propylamine | 7.36  | 70   | 376811   | 13.524 ng | #     | 74       |
| 25) Isophorone                 | 7.36  | 82   | 2685410  | 43.818 ng | #     | 65       |
| 50) Dimethylphthalate          | 9.56  | 163  | 558433   | 8.464 ng  |       | 97       |
| 54) 2,4-Dinitrophenol          | 10.08 | 184  | 197      | 6.645 ng  | #     | 66       |
| 57) 2,4-Dinitrotoluene         | 9.84  | 165  | 122901   | 6.803 ng  | #     | 23       |
| 67) 4-Bromophenyl-phenylether  | 10.63 | 248  | 57964    | 3.546 ng  | #     | 1        |
| 75) Fluoranthene               | 12.53 | 202  | 255129   | 3.510 ng  |       | 97       |
| 78) Pyrene                     | 12.76 | 202  | 227681   | 3.196 ng  |       | 95       |
| 81) Benzo(a)anthracene         | 13.98 | 228  | 113537   | 2.119 ng  |       | 97       |
| 83) Chrysene                   | 13.98 | 228  | 113537   | 2.135 ng  |       | 93       |
| 88) Benzo(b)fluoranthene       | 14.97 | 252  | 207850   | 3.868 ng  | #     | 94       |
| 89) Benzo(k)fluoranthene       | 14.97 | 252  | 207850   | 4.002 ng  | #     | 94       |
| 90) Benzo(a)pyrene             | 15.33 | 252  | 100200   | 2.033 ng  |       | 98       |

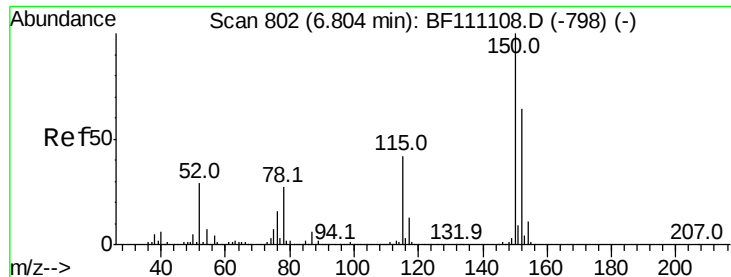
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF120618\  
Data File : BF111157.D  
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Sample : J6206-13  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :

Quant Time: Dec 07 02:10:37 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF120518.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
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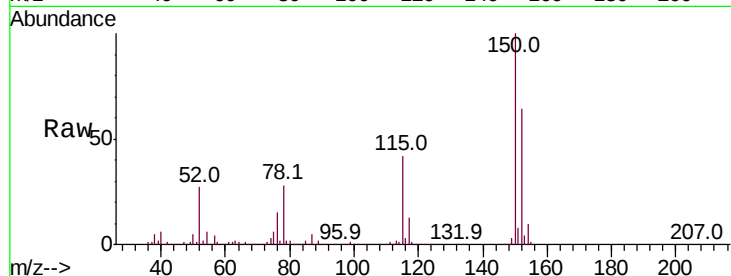


#1

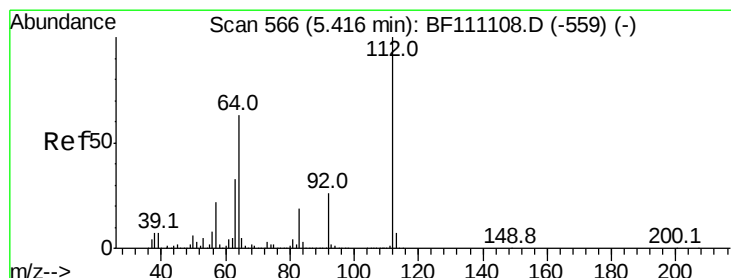
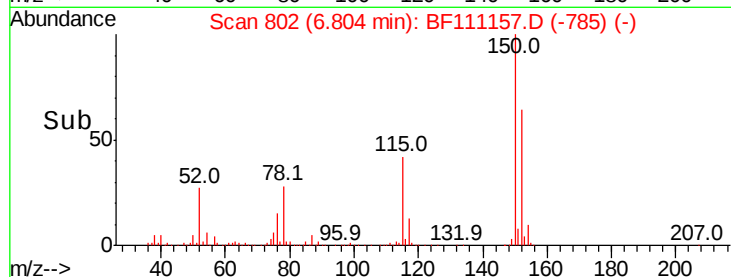
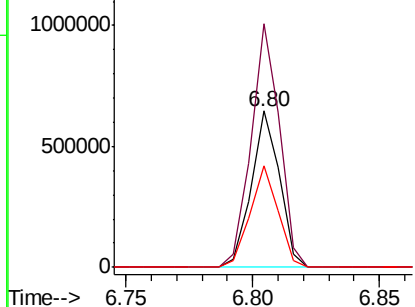
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.80 min Scan# 802  
Delta R.T. 0.00 min  
Lab File: BF111157.D  
Acq: 7 Dec 2018 00:00

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 502239  
Ion Ratio Lower Upper  
152 100  
150 156.0 124.6 187.0  
115 65.2 52.2 78.2



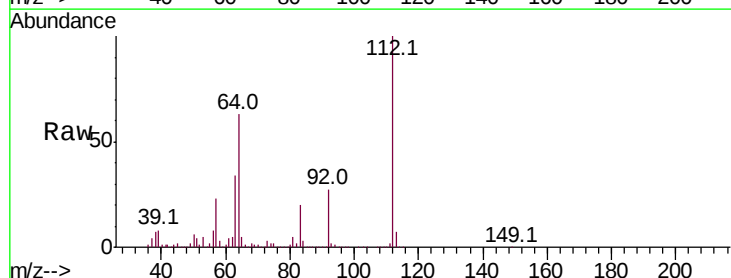
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



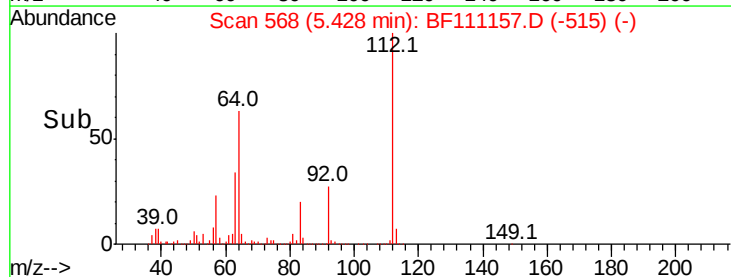
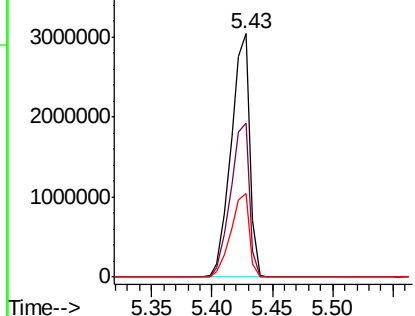
#5

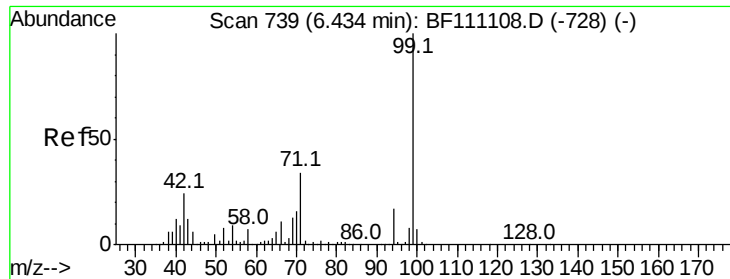
2-Fluorophenol  
Concen: 101.540 ng  
RT: 5.43 min Scan# 568  
Delta R.T. 0.01 min  
Lab File: BF111157.D  
Acq: 7 Dec 2018 00:00

Tgt Ion:112 Resp: 3268103  
Ion Ratio Lower Upper  
112 100  
64 63.4 50.2 75.4  
63 34.2 26.6 39.8



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: 99.598 ng

RT: 6.44 min Scan# 740

Delta R.T. 0.01 min

Lab File: BF111157.D

Acq: 7 Dec 2018 00:00

Instrument :

BNA\_F

ClientSampleId :

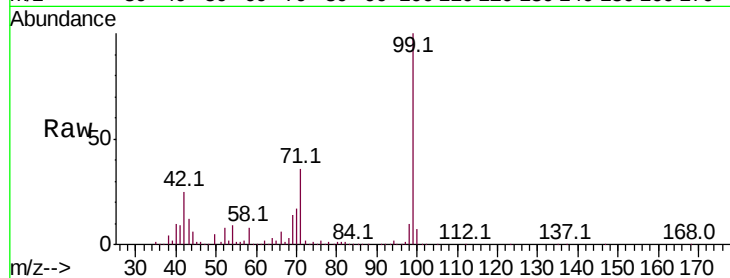
Tot Ion: 99 Resp: 4129379

Ion Ratio Lower Upper

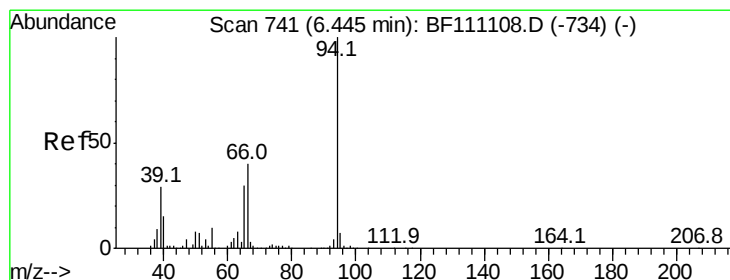
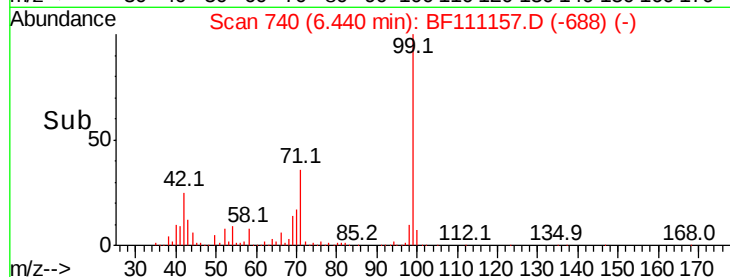
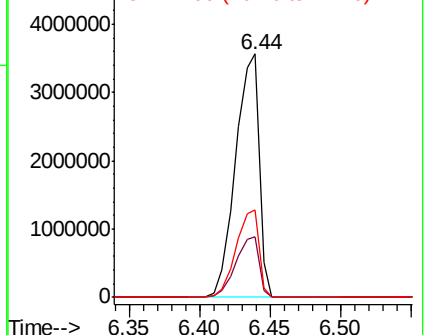
99 100

42 24.6 19.3 28.9

71 35.8 27.4 41.2



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: 7.023 ng

RT: 6.45 min Scan# 741

Delta R.T. 0.00 min

Lab File: BF111157.D

Acq: 7 Dec 2018 00:00

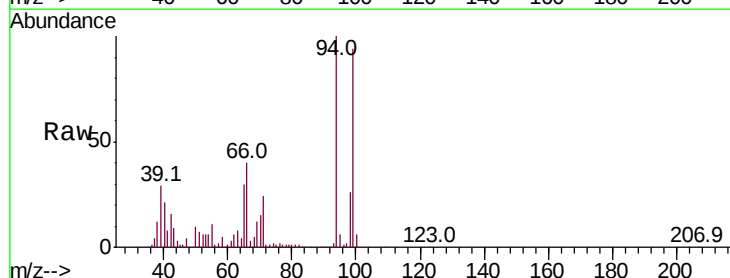
Tgt Ion: 94 Resp: 317470

Ion Ratio Lower Upper

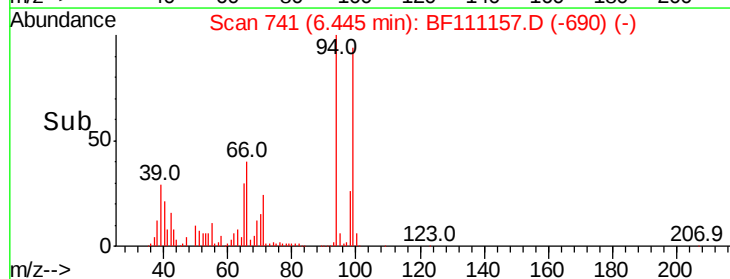
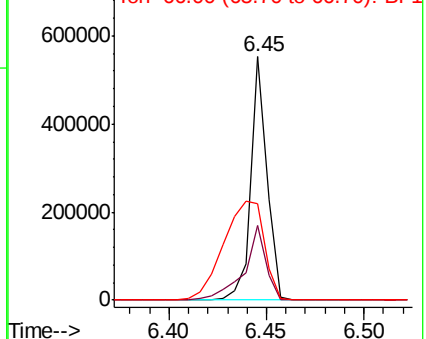
94 100

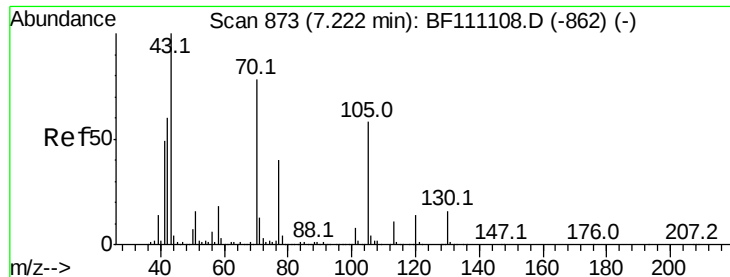
65 30.4 10.5 50.5

66 39.7 19.8 59.8



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

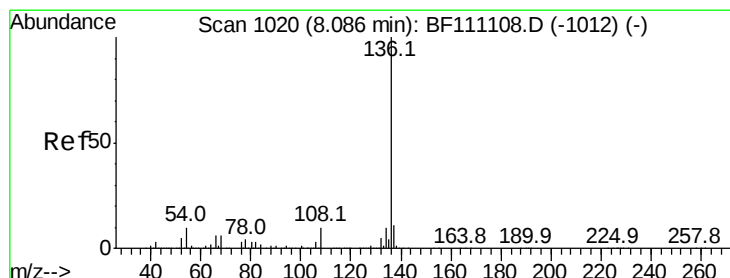
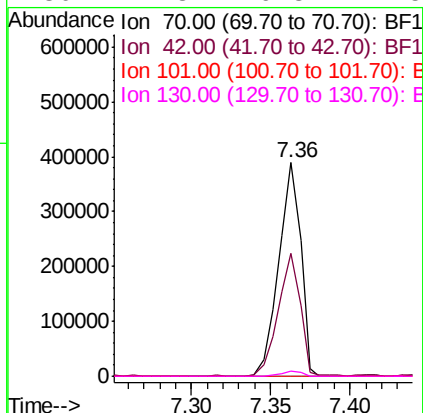
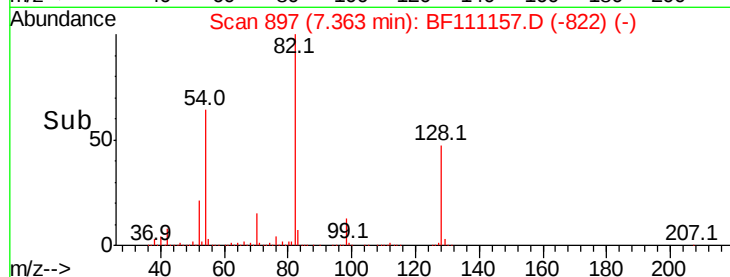
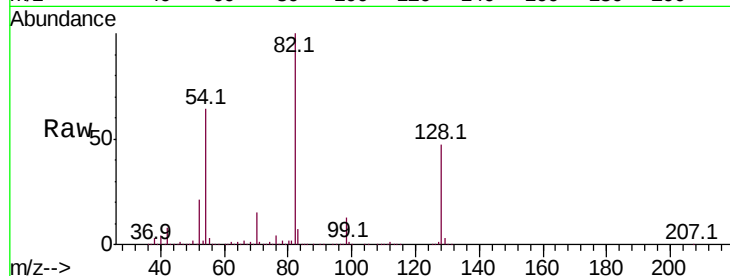




#19  
n-Nitroso-di-n-propylamine  
Concen: 13.524 ng  
RT: 7.36 min Scan# 897  
Delta R.T. 0.14 min  
Lab File: BF111157.D  
Acq: 7 Dec 2018 00:00

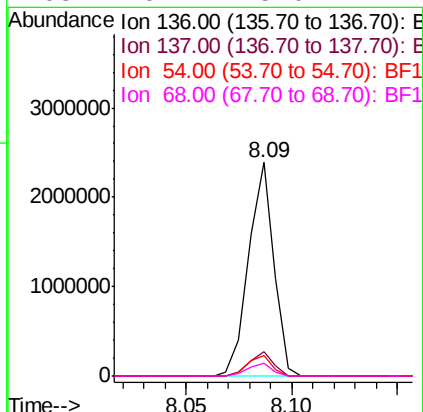
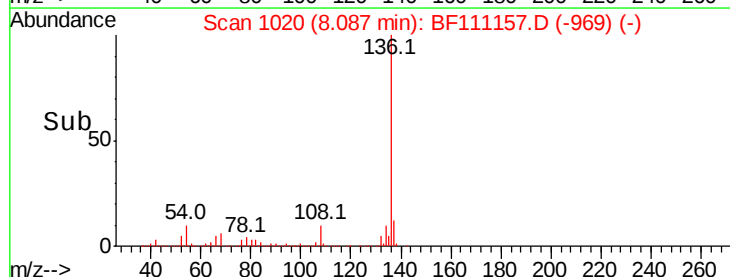
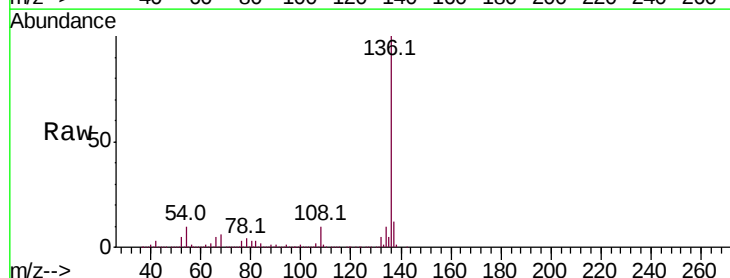
Instrument :  
BNA\_F  
ClientSampleId :

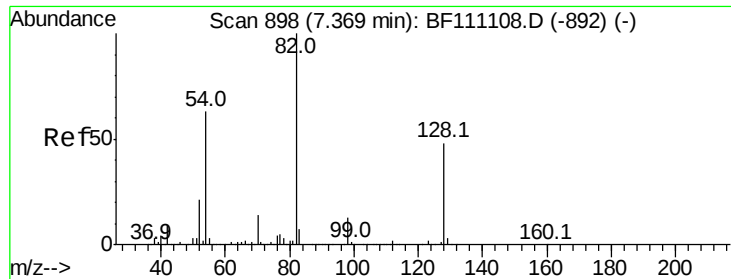
Tot Ion: 70 Resp: 376811  
Ion Ratio Lower Upper  
70 100  
42 57.7 61.3 91.9#  
101 0.0 7.7 11.5#  
130 2.3 16.3 24.5#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.09 min Scan# 1020  
Delta R.T. 0.00 min  
Lab File: BF111157.D  
Acq: 7 Dec 2018 00:00

Tgt Ion:136 Resp: 1977037  
Ion Ratio Lower Upper  
136 100  
137 11.7 9.0 13.6  
54 9.9 8.4 12.6  
68 6.1 5.0 7.4

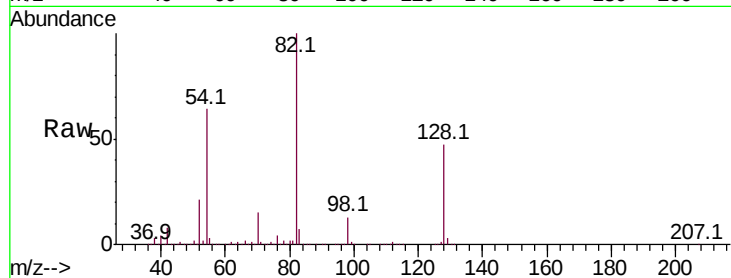




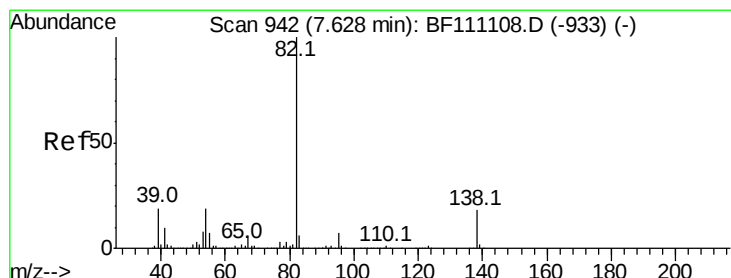
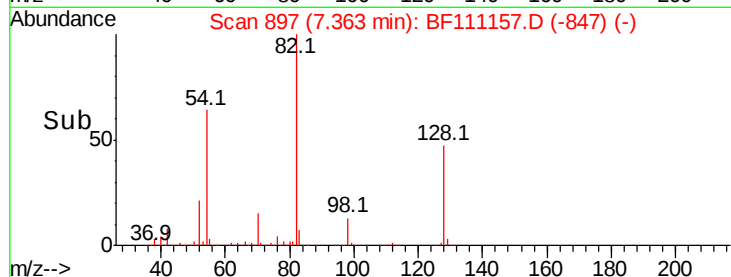
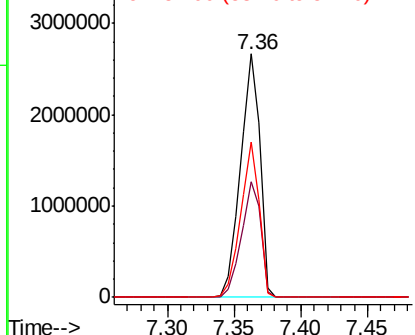
#23  
Nitrobenzene-d5  
Concen: 80.747 ng  
RT: 7.36 min Scan# 897  
Delta R.T. -0.01 min  
Lab File: BF111157.D  
Acq: 7 Dec 2018 00:00

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion: 82 Resp: 2696456  
Ion Ratio Lower Upper  
82 100  
128 47.4 38.1 57.1  
54 63.9 50.3 75.5

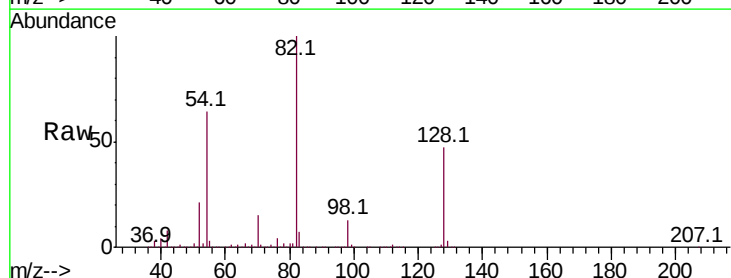


Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 128.00 (127.70 to 128.70): BF1  
Ion 54.00 (53.70 to 54.70): BF1

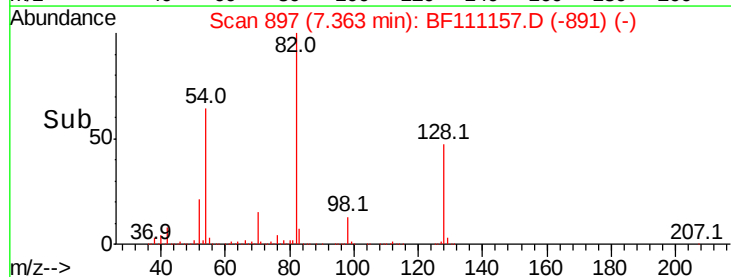
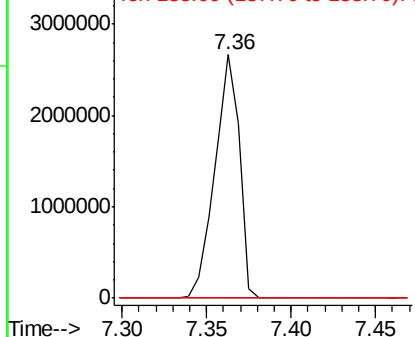


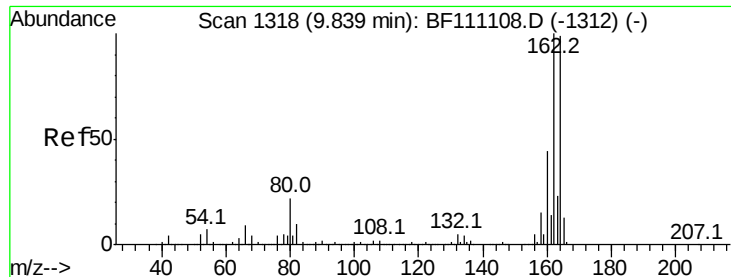
#25  
Isophorone  
Concen: 43.818 ng  
RT: 7.36 min Scan# 897  
Delta R.T. -0.26 min  
Lab File: BF111157.D  
Acq: 7 Dec 2018 00:00

Tgt Ion: 82 Resp: 2685410  
Ion Ratio Lower Upper  
82 100  
95 0.0 5.6 8.4#  
138 0.0 14.6 22.0#



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

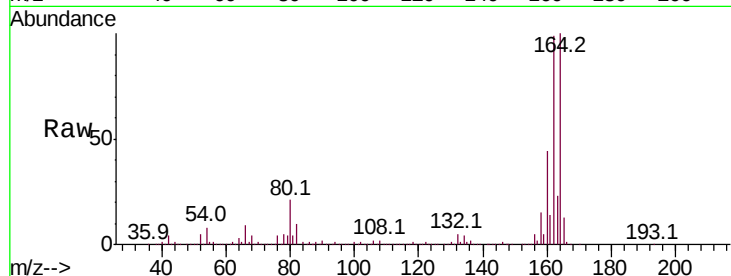




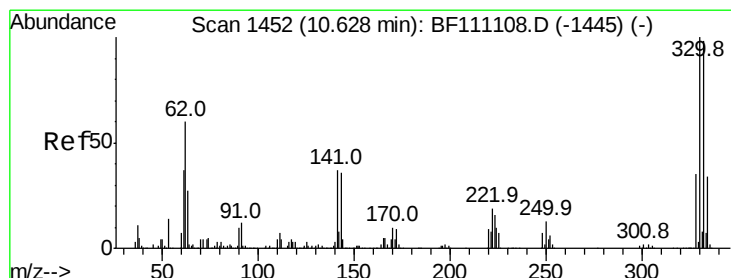
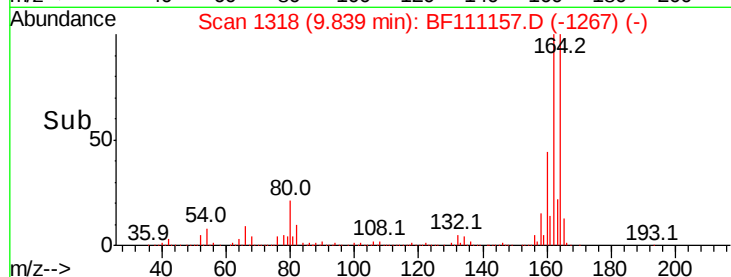
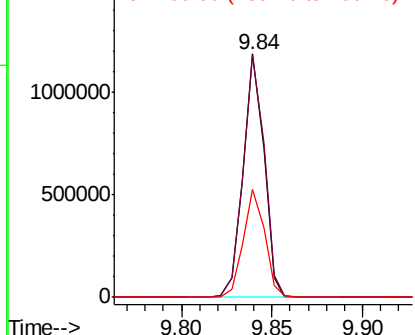
#39  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.84 min Scan# 1318  
 Delta R.T. 0.00 min  
 Lab File: BF111157.D  
 Acq: 7 Dec 2018 00:00

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:164 Resp: 948000  
 Ion Ratio Lower Upper  
 164 100  
 162 99.4 80.6 120.8  
 160 44.2 35.5 53.3

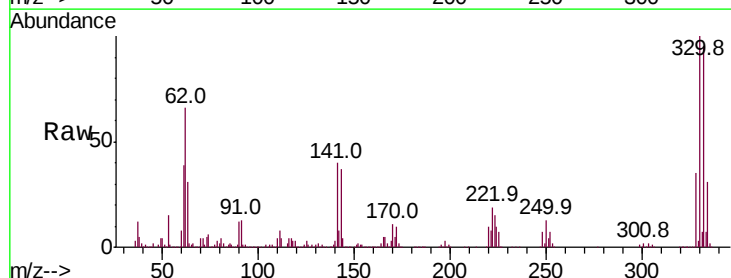


Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E

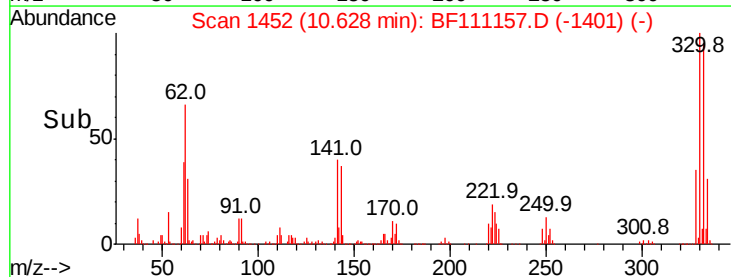
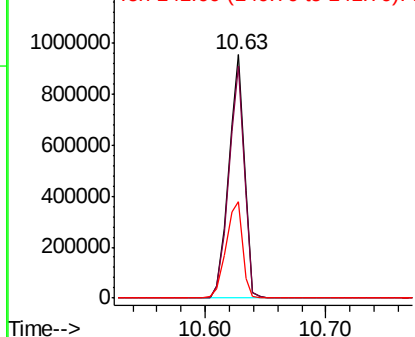


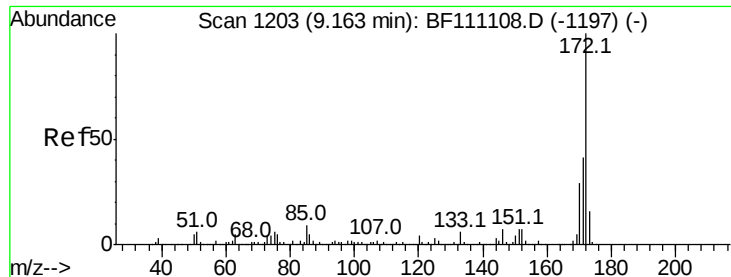
#42  
 2,4,6-Tribromophenol  
 Concen: 113.964 ng  
 RT: 10.63 min Scan# 1452  
 Delta R.T. 0.00 min  
 Lab File: BF111157.D  
 Acq: 7 Dec 2018 00:00

Tgt Ion:330 Resp: 858775  
 Ion Ratio Lower Upper  
 330 100  
 332 95.2 77.2 115.8  
 141 42.0 36.1 54.1



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

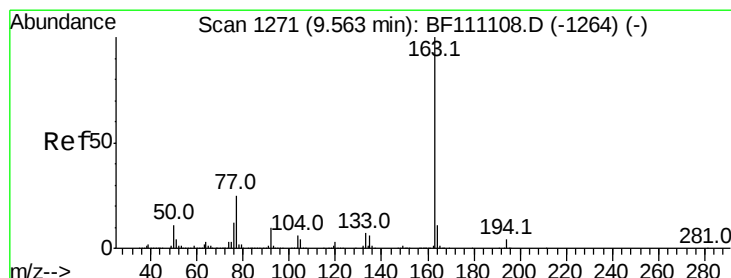
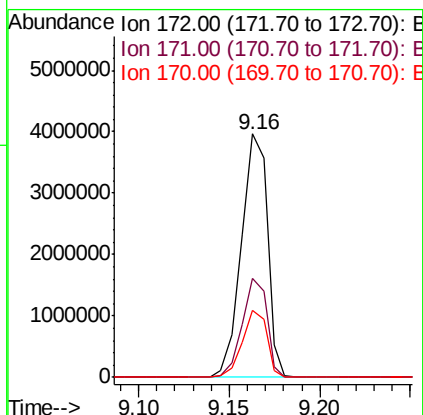
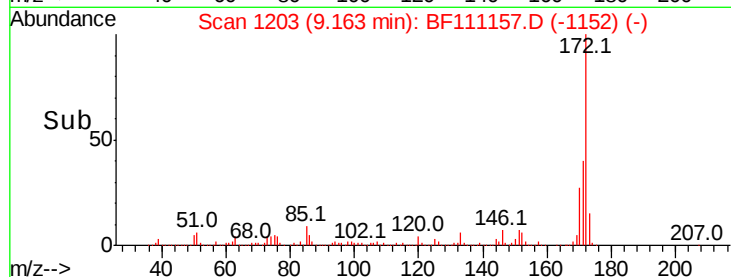
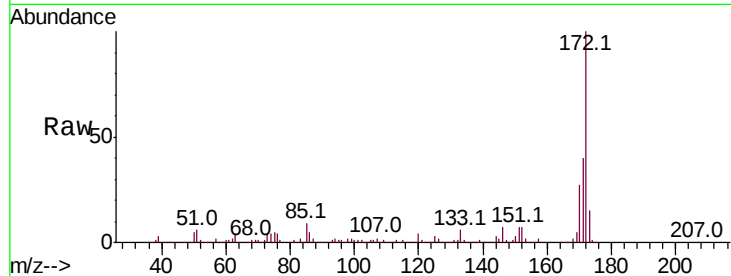




#45  
2-Fluorobiphenyl  
Concen: 75.958 ng  
RT: 9.16 min Scan# 1203  
Delta R.T. 0.00 min  
Lab File: BF111157.D  
Acq: 7 Dec 2018 00:00

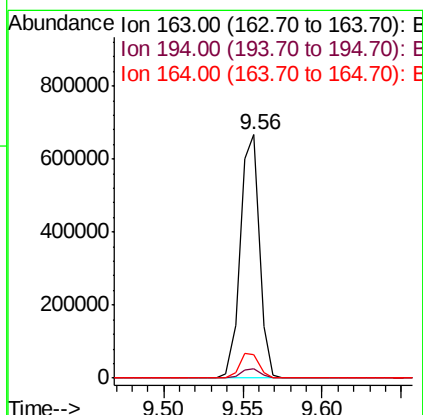
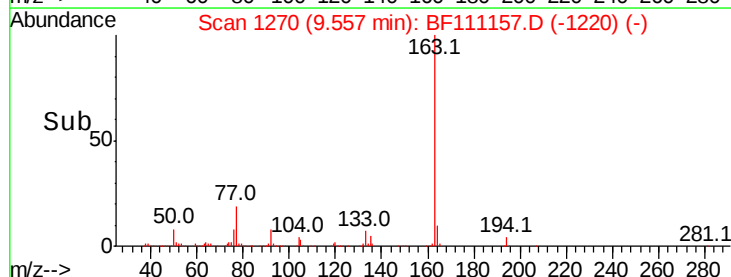
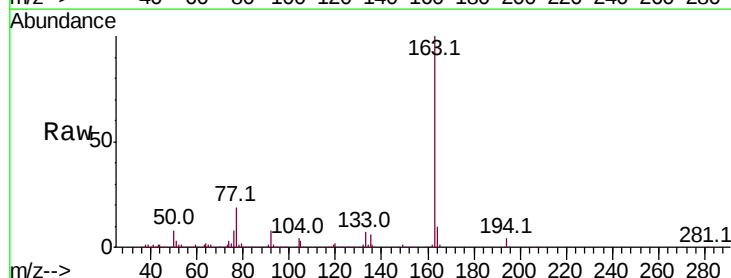
Instrument :  
BNA\_F  
ClientSampleId :

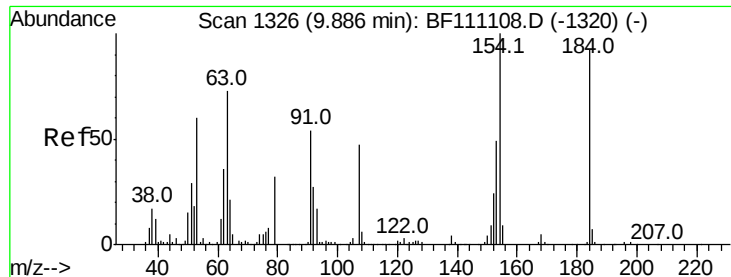
Tot Ion:172 Resp: 3968392  
Ion Ratio Lower Upper  
172 100  
171 40.5 33.2 49.8  
170 27.5 22.9 34.3



#50  
Dimethylphthalate  
Concen: 8.464 ng  
RT: 9.56 min Scan# 1270  
Delta R.T. -0.01 min  
Lab File: BF111157.D  
Acq: 7 Dec 2018 00:00

Tgt Ion:163 Resp: 558433  
Ion Ratio Lower Upper  
163 100  
194 4.0 3.0 4.4  
164 9.7 8.9 13.3





#54

2,4-Dinitrophenol

Concen: 6.645 ng

RT: 10.08 min Scan# 1359

Delta R.T. 0.19 min

Lab File: BF111157.D

Acq: 7 Dec 2018 00:00

Instrument :

BNA\_F

ClientSampleId :

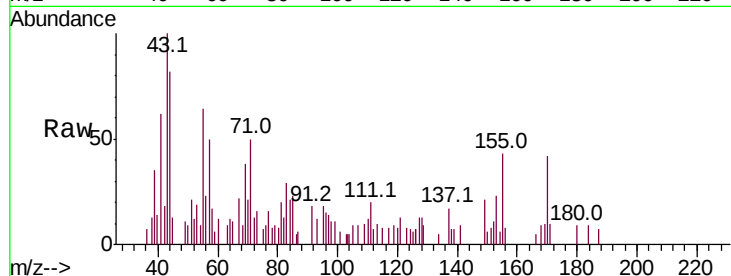
Tot Ion:184 Resp: 197

Ion Ratio Lower Upper

184 100

63 106.6 64.2 96.4#

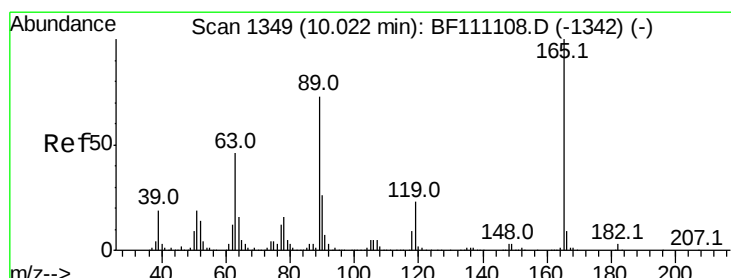
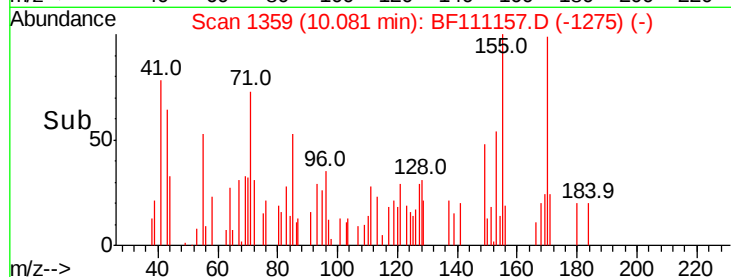
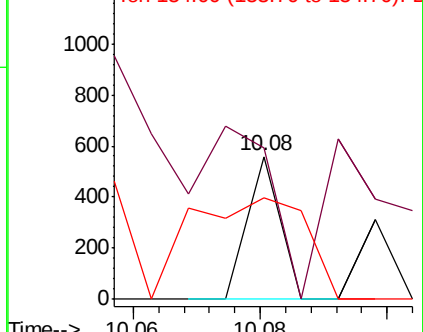
154 71.5 89.5 134.3#



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 154.00 (153.70 to 154.70): E



#57

2,4-Dinitrotoluene

Concen: 6.803 ng

RT: 9.84 min Scan# 1318

Delta R.T. -0.18 min

Lab File: BF111157.D

Acq: 7 Dec 2018 00:00

Tgt Ion:165 Resp: 122901

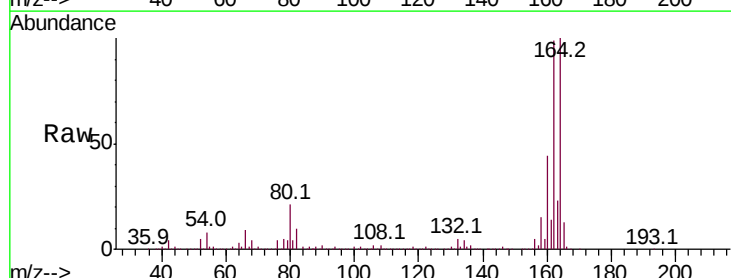
Ion Ratio Lower Upper

165 100

63 1.5 36.7 55.1#

89 1.3 58.4 87.6#

182 0.0 2.1 3.1#

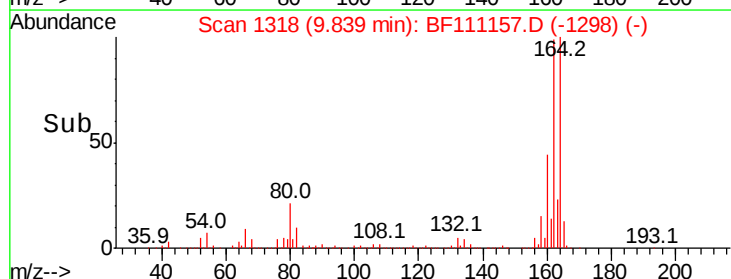
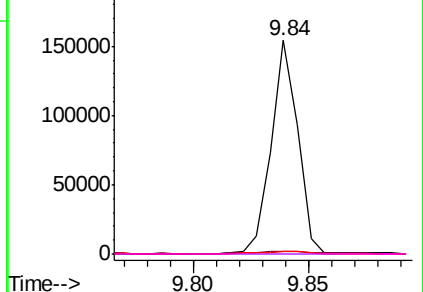


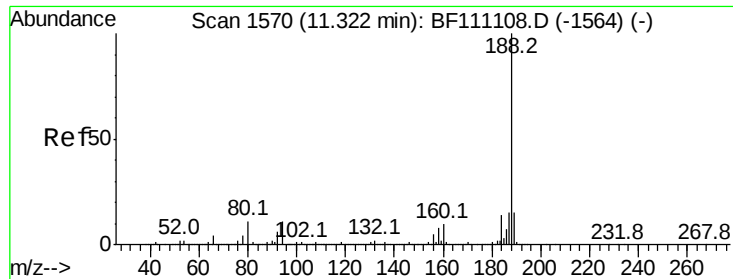
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.32 min Scan# 1570

Delta R.T. 0.00 min

Lab File: BF111157.D

Acq: 7 Dec 2018 00:00

Instrument :

BNA\_F

ClientSampled :

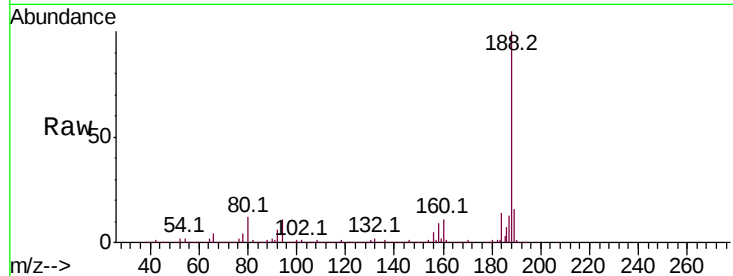
Tot Ion:188 Resp: 1544331

Ion Ratio Lower Upper

188 100

94 10.8 8.5 12.7

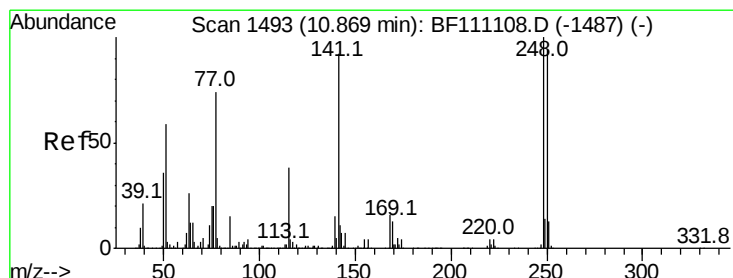
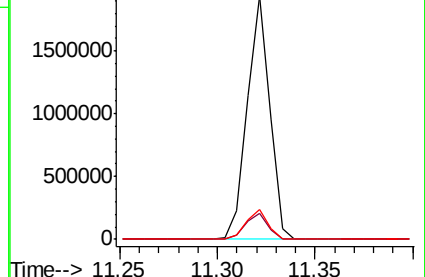
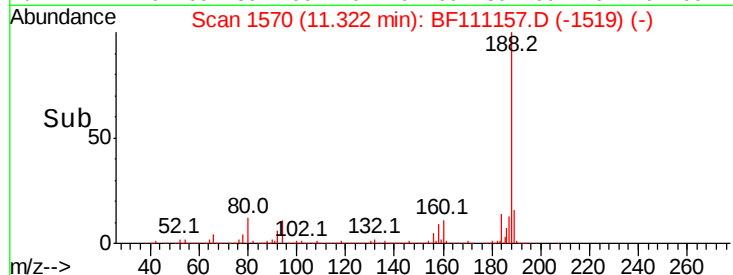
80 12.4 9.0 13.6



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



#67

4-Bromophenyl-phenylether

Concen: 3.546 ng

RT: 10.63 min Scan# 1452

Delta R.T. -0.24 min

Lab File: BF111157.D

Acq: 7 Dec 2018 00:00

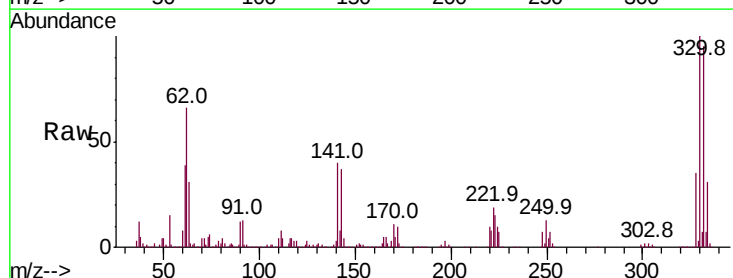
Tgt Ion:248 Resp: 57964

Ion Ratio Lower Upper

248 100

250 197.0 75.4 113.0#

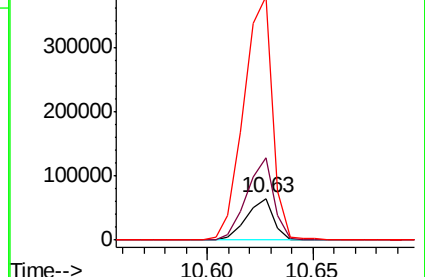
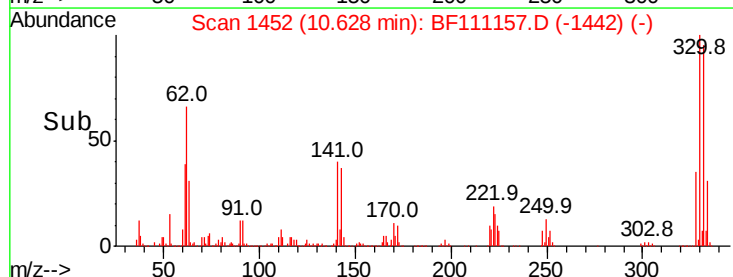
141 580.9 73.8 110.6#

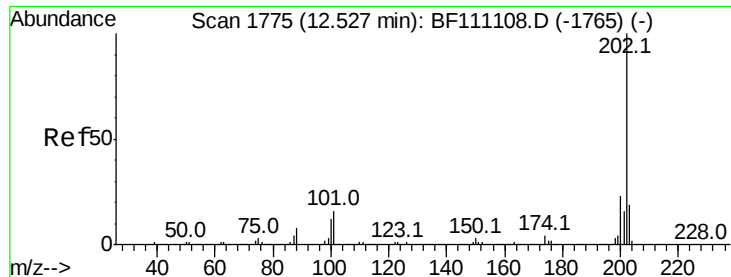


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#75

Fluoranthene

Concen: 3.510 ng

RT: 12.53 min Scan# 1775

Delta R.T. 0.00 min

Lab File: BF111157.D

Acq: 7 Dec 2018 00:00

Instrument :

BNA\_F

ClientSampleId :

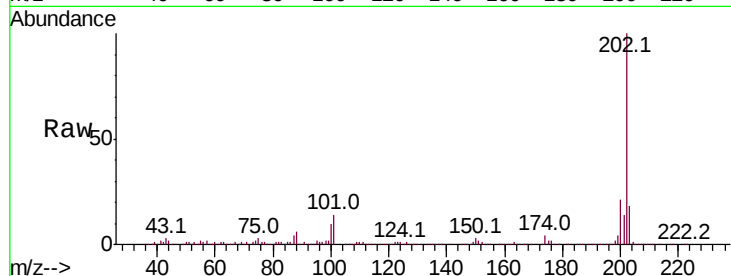
Tot Ion:202 Resp: 255129

Ion Ratio Lower Upper

202 100

101 13.7 0.0 35.8

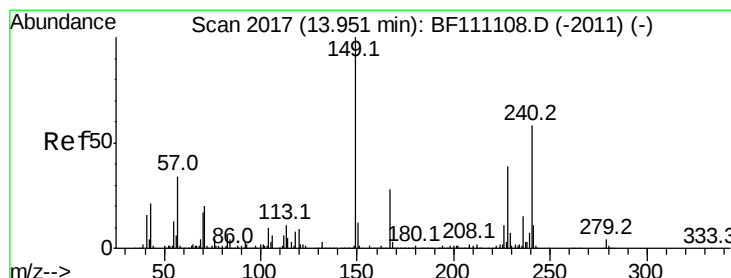
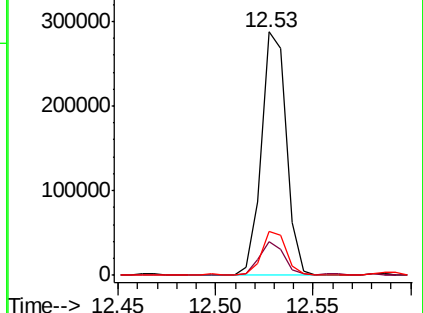
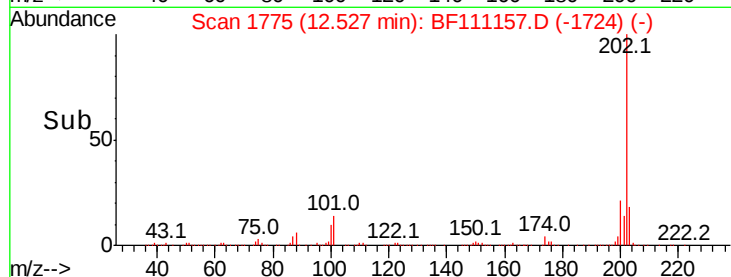
203 18.2 0.0 38.6



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: 13.96 min Scan# 2018

Delta R.T. 0.01 min

Lab File: BF111157.D

Acq: 7 Dec 2018 00:00

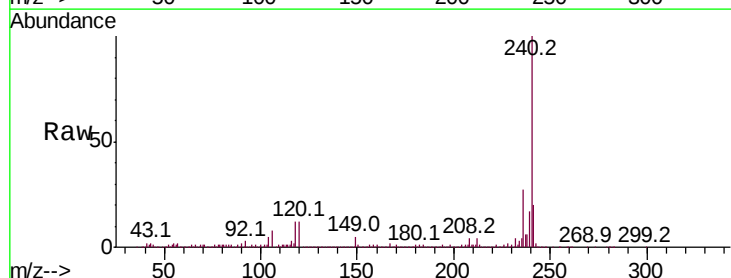
Tgt Ion:240 Resp: 914378

Ion Ratio Lower Upper

240 100

120 12.5 12.8 19.2#

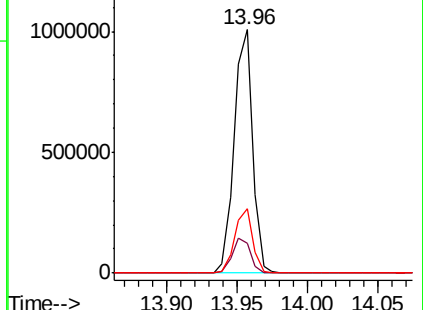
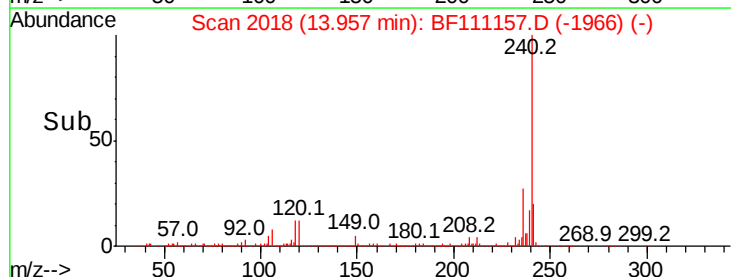
236 26.6 21.1 31.7

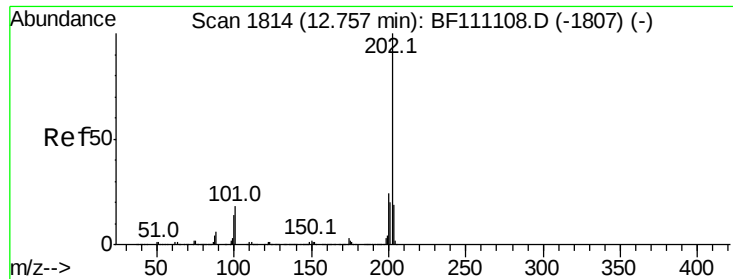


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

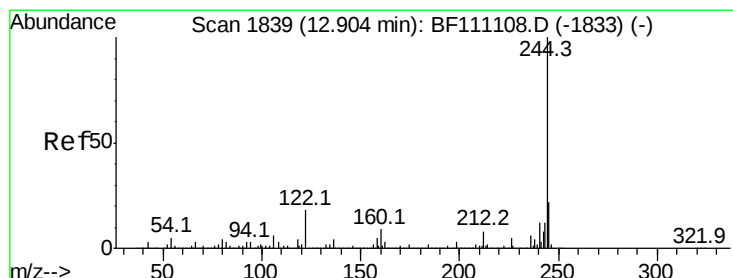
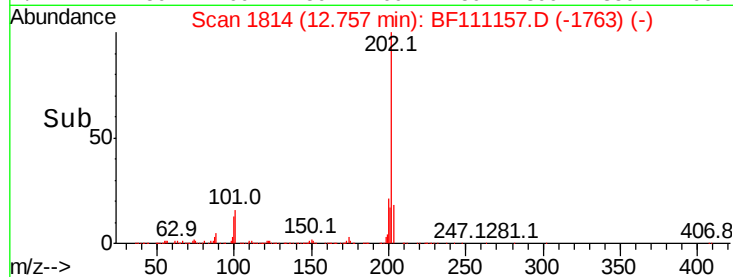
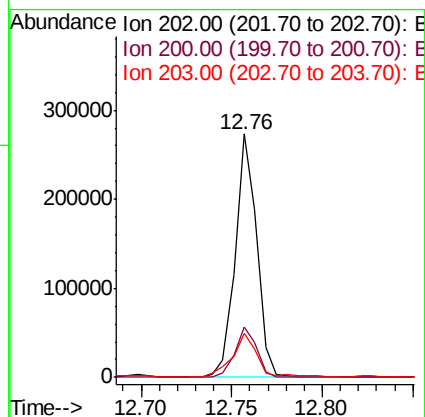
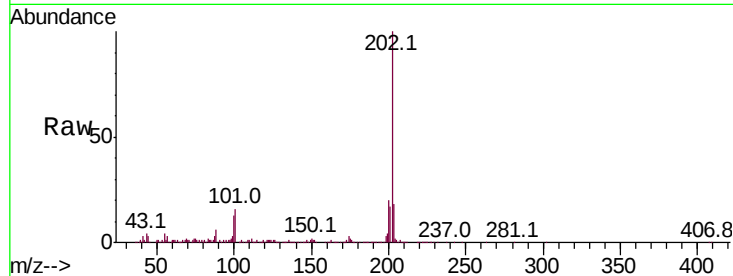




#78  
Pvrene  
Concen: 3.196 ng  
RT: 12.76 min Scan# 1814  
Delta R.T. 0.00 min  
Lab File: BF111157.D  
Acq: 7 Dec 2018 00:00

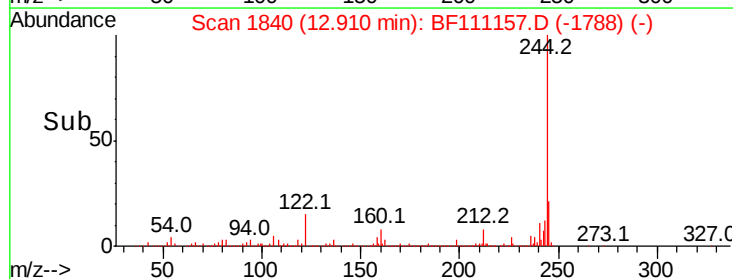
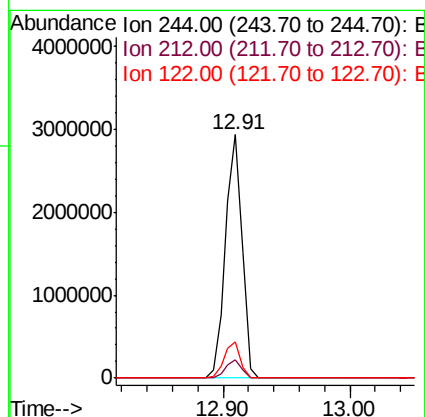
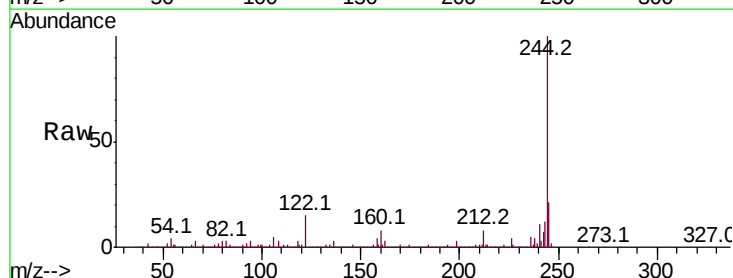
Instrument :  
BNA\_F  
ClientSampleId :

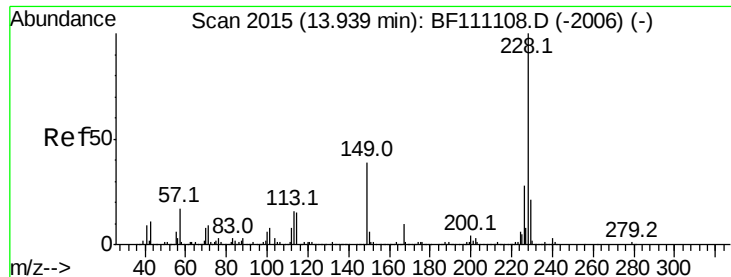
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 20.4  | 19.3  | 28.9  |
| 203     | 18.2  | 15.4  | 23.2  |



#79  
Terphenyl-d14  
Concen: 59.990 ng  
RT: 12.91 min Scan# 1840  
Delta R.T. 0.01 min  
Lab File: BF111157.D  
Acq: 7 Dec 2018 00:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 7.6   | 6.6   | 9.8   |
| 122     | 14.8  | 14.2  | 21.2  |

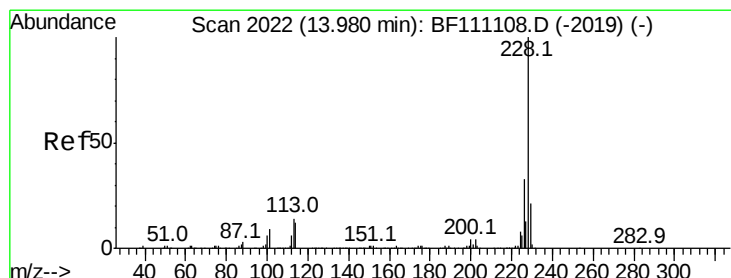
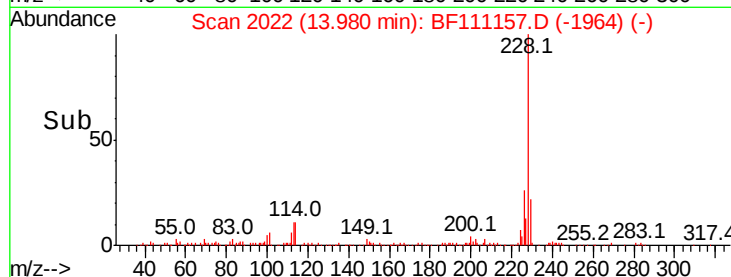
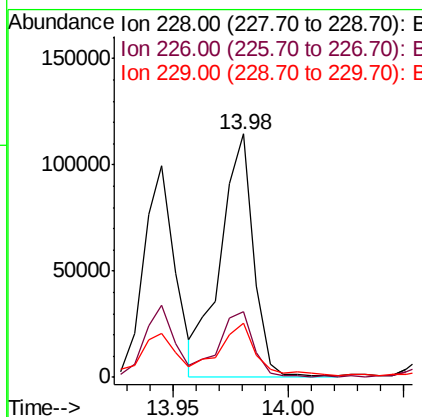
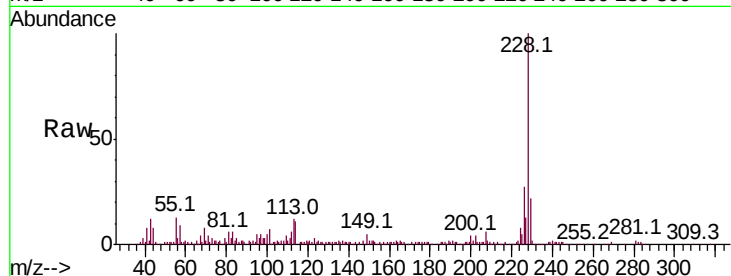




#81  
Benzo(a)anthracene  
Concen: 2.119 ng  
RT: 13.98 min Scan# 2022  
Delta R.T. 0.04 min  
Lab File: BF111157.D  
Acq: 7 Dec 2018 00:00

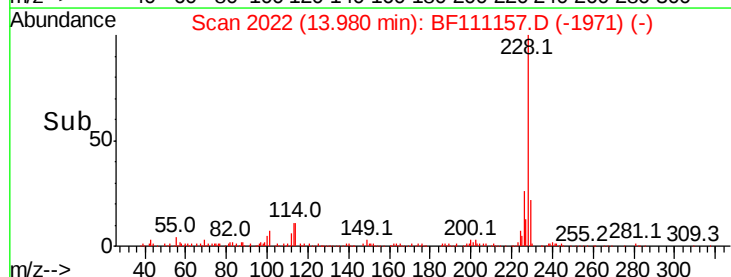
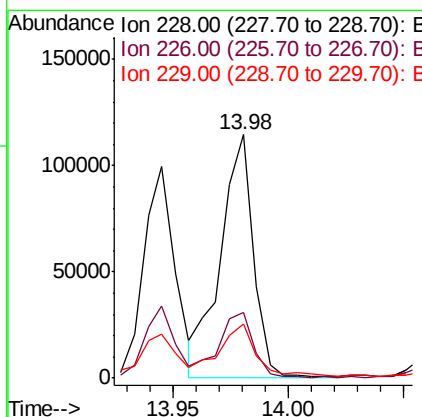
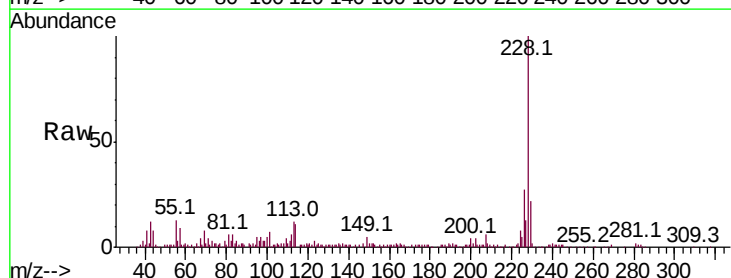
Instrument :  
BNA\_F  
ClientSampleId :

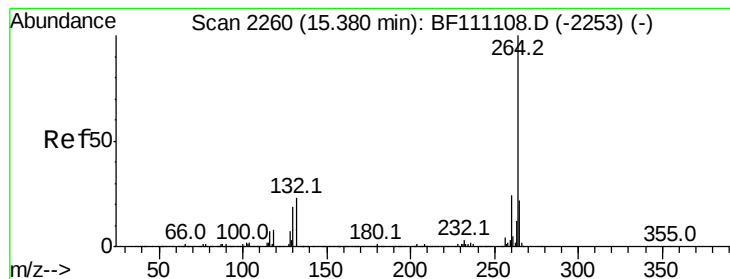
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 26.8  | 22.6  | 34.0  |
| 229     | 22.4  | 16.7  | 25.1  |



#83  
Chrysene  
Concen: 2.135 ng  
RT: 13.98 min Scan# 2022  
Delta R.T. 0.00 min  
Lab File: BF111157.D  
Acq: 7 Dec 2018 00:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 26.8  | 26.2  | 39.2  |
| 229     | 22.4  | 16.9  | 25.3  |





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.39 min Scan# 2262

Delta R.T. 0.01 min

Lab File: BF111157.D

Acq: 7 Dec 2018 00:00

Instrument :

BNA\_F

ClientSampleId :

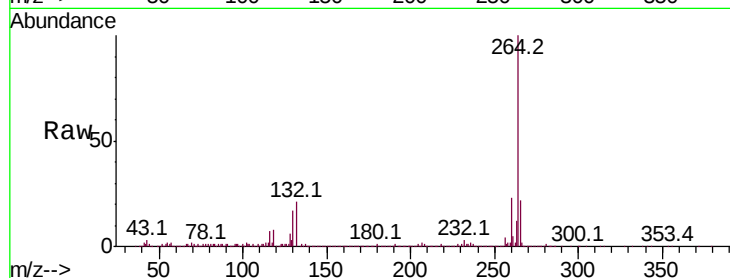
Tot Ion:264 Resp: 948203

Ion Ratio Lower Upper

264 100

260 23.3 19.4 29.0

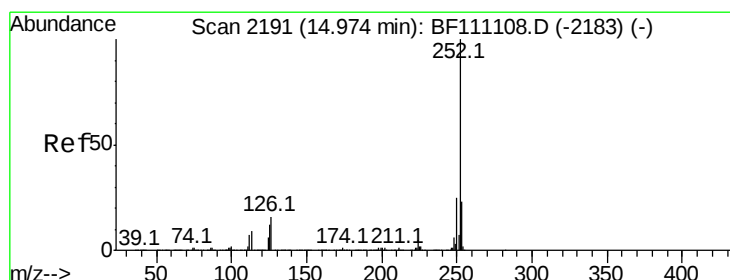
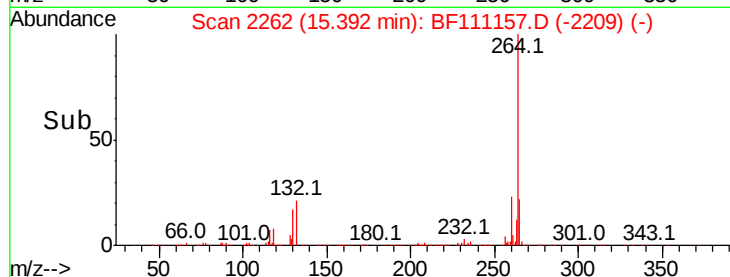
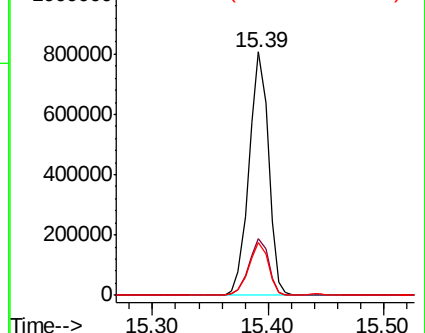
265 21.8 17.4 26.0



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: 3.868 ng

RT: 14.97 min Scan# 2191

Delta R.T. 0.00 min

Lab File: BF111157.D

Acq: 7 Dec 2018 00:00

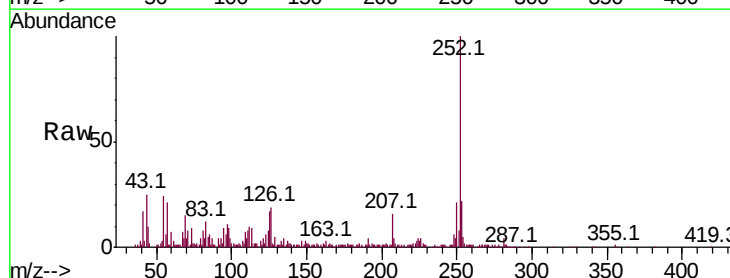
Tgt Ion:252 Resp: 207850

Ion Ratio Lower Upper

252 100

253 21.7 18.5 27.7

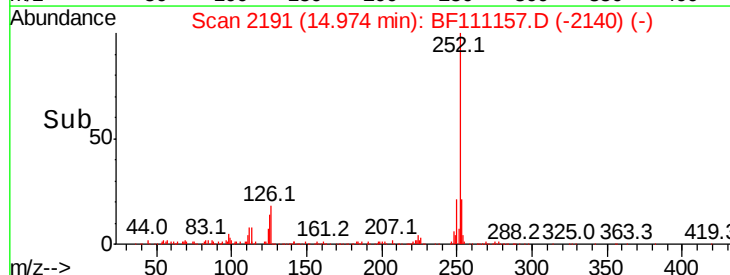
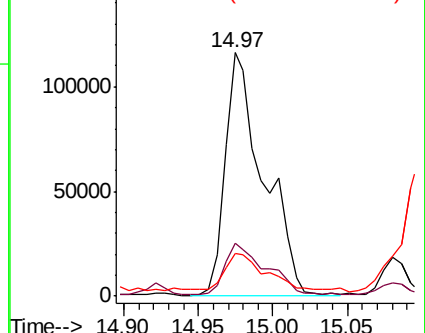
125 17.4 9.9 14.9#

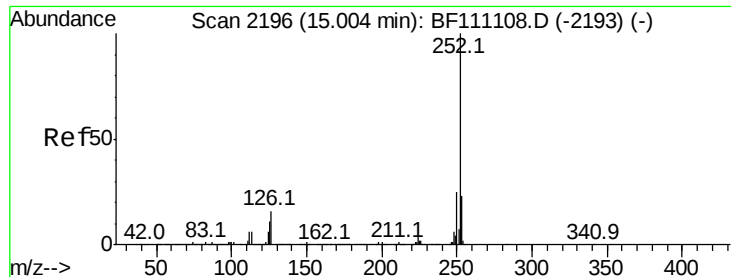


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

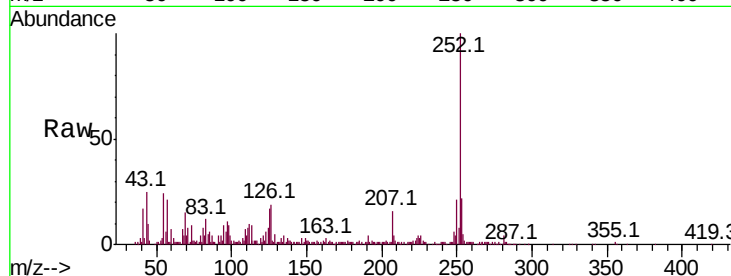




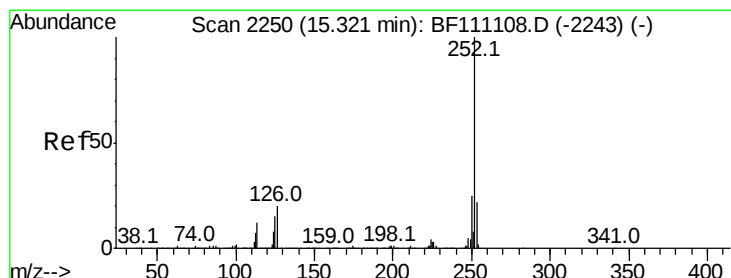
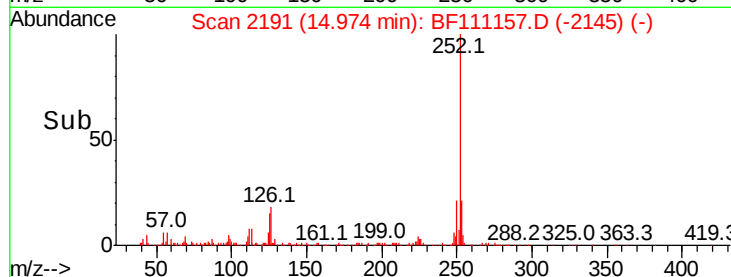
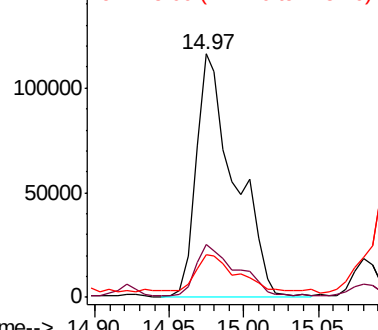
#89  
Benzo(k)fluoranthene  
Concen: 4.002 ng  
RT: 14.97 min Scan# 2191  
Delta R.T. -0.03 min  
Lab File: BF111157.D  
Acq: 7 Dec 2018 00:00

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:252 Resp: 207850  
Ion Ratio Lower Upper  
252 100  
253 21.7 18.2 27.4  
125 17.4 9.9 14.9#

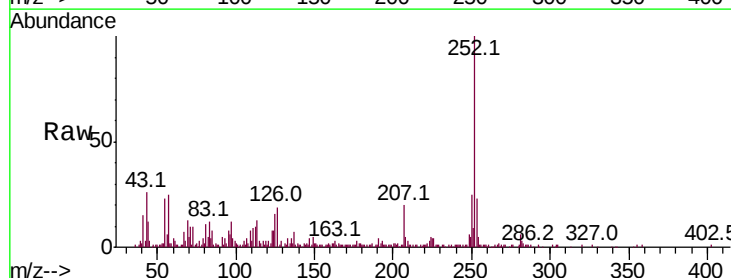


Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E



#90  
Benzo(a)pyrene  
Concen: 2.033 ng  
RT: 15.33 min Scan# 2251  
Delta R.T. 0.01 min  
Lab File: BF111157.D  
Acq: 7 Dec 2018 00:00

Tgt Ion:252 Resp: 100200  
Ion Ratio Lower Upper  
252 100  
253 22.7 17.5 26.3  
125 16.1 12.4 18.6



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

