

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF123119\  
 Data File : BF118402.D  
 Acq On : 31 Dec 2019 13:44  
 Operator : JU  
 Sample : K6463-04  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Jan 01 00:32:04 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF122419.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Dec 24 15:58:52 2019  
 Response via : Initial Calibration

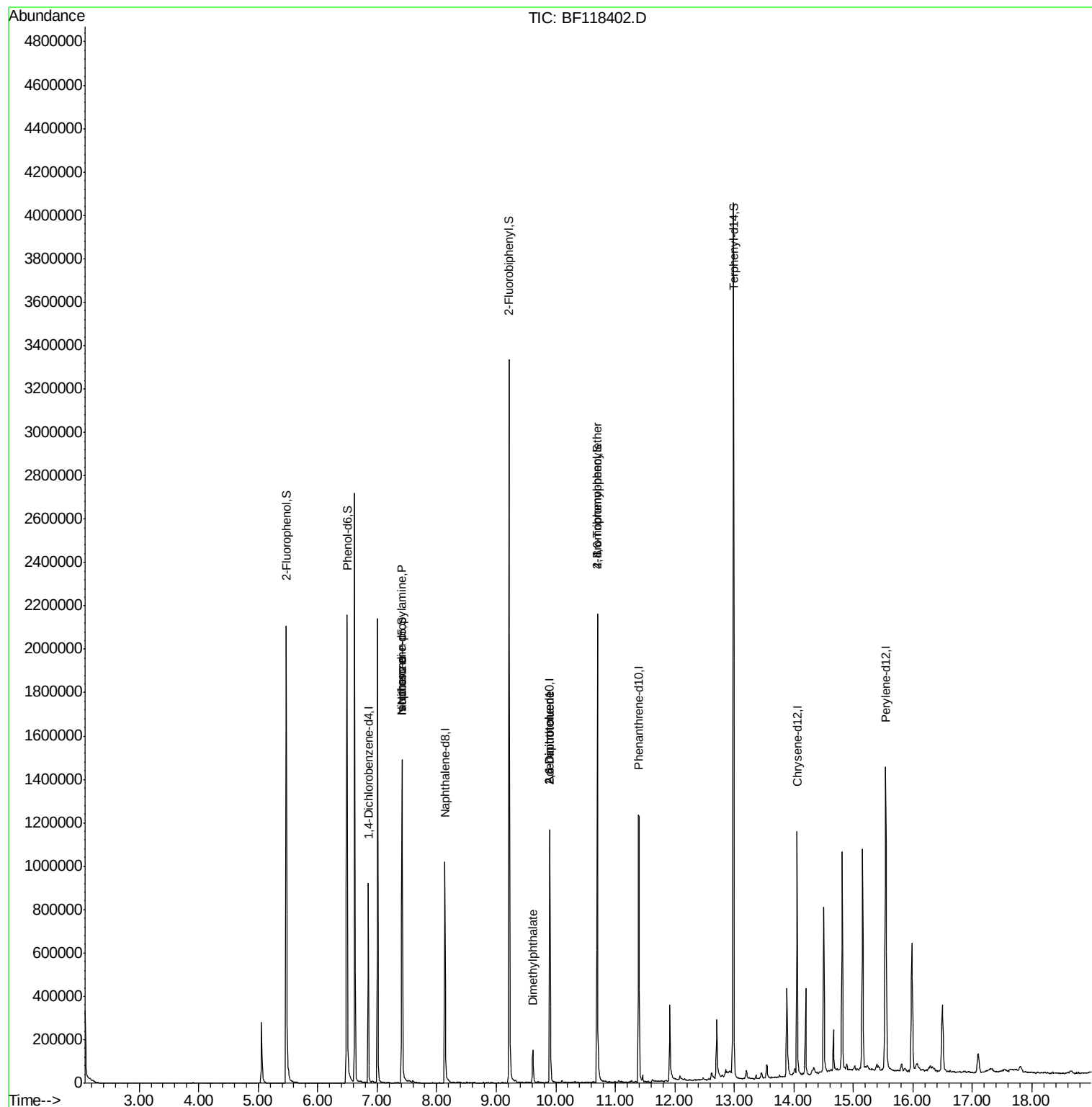
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.85  | 152  | 127640   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.14  | 136  | 500709   | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10           | 9.90  | 164  | 269245   | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10           | 11.40 | 188  | 523047   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12               | 14.05 | 240  | 367784   | 20.00  | ng    | 0.00     |
| 87) Perylene-d12               | 15.55 | 264  | 343071   | 20.00  | ng    | 0.02     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.47  | 112  | 677709   | 90.63  | ng    | 0.01     |
| 7) Phenol-d6                   | 6.49  | 99   | 857326   | 92.42  | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.42  | 82   | 511110   | 58.38  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol       | 10.70 | 330  | 294427   | 88.55  | ng    | 0.00     |
| 45) 2-Fluorobiphenyl           | 9.22  | 172  | 1078567  | 61.15  | ng    | 0.00     |
| 79) Terphenyl-d14              | 12.99 | 244  | 1341144  | 60.50  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.42  | 70   | 68027    | 11.905 | ng    | # 76     |
| 25) Isophorone                 | 7.42  | 82   | 511104   | 33.499 | ng    | # 62     |
| 50) Dimethylphthalate          | 9.62  | 163  | 77543    | 3.837  | ng    | 99       |
| 51) 2,6-Dinitrotoluene         | 9.90  | 165  | 34579    | 7.936  | ng    | # 26     |
| 57) 2,4-Dinitrotoluene         | 9.90  | 165  | 34579    | 5.939  | ng    | # 30     |
| 67) 4-Bromophenyl-phenylether  | 10.70 | 248  | 18141    | 2.964  | ng    | # 1      |

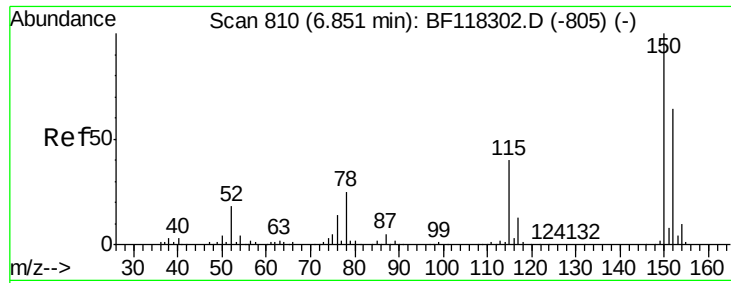
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF123119\  
Data File : BF118402.D  
Acq On : 31 Dec 2019 13:44  
Operator : JU  
Sample : K6463-04  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :

Quant Time: Jan 01 00:32:04 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF122419.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Dec 24 15:58:52 2019  
Response via : Initial Calibration



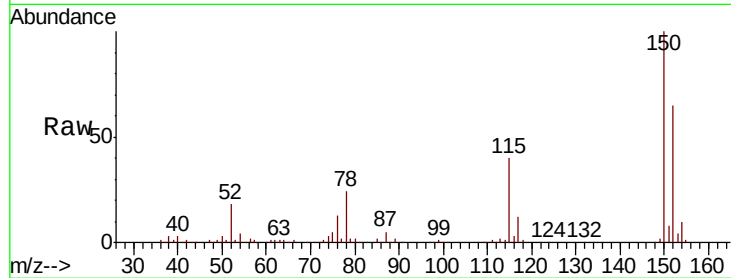


#1

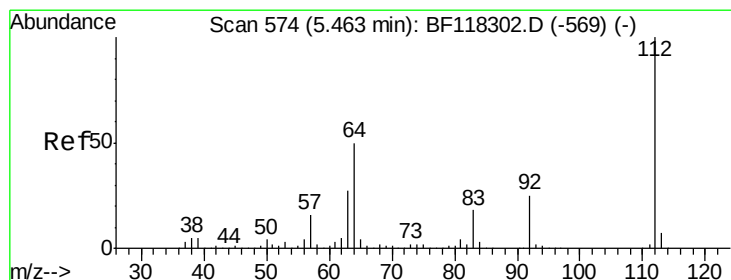
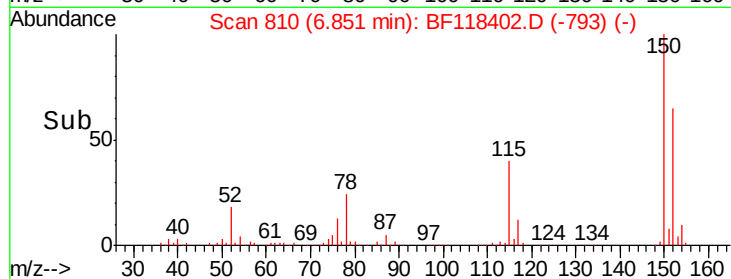
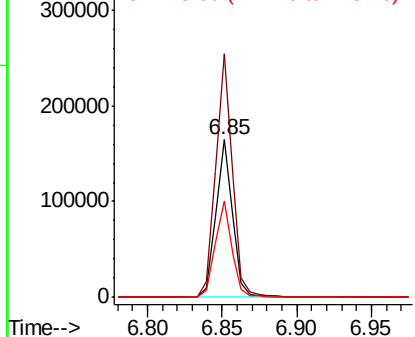
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.85 min Scan# 810  
Delta R.T. -0.00 min  
Lab File: BF118402.D  
Acq: 31 Dec 2019 13:44

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 127640  
Ion Ratio Lower Upper  
152 100  
150 154.5 125.4 188.2  
115 61.2 50.2 75.4



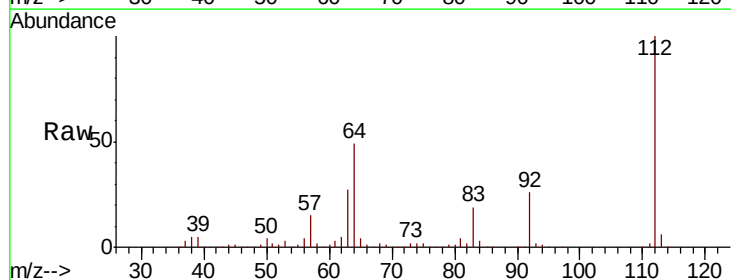
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



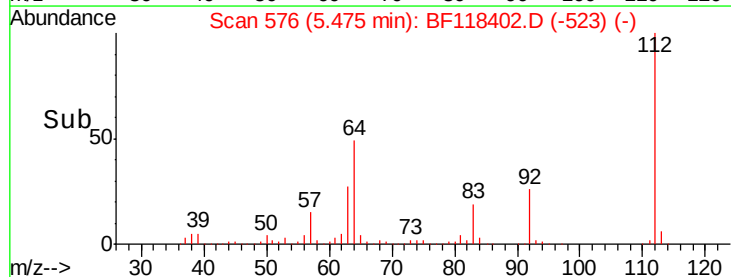
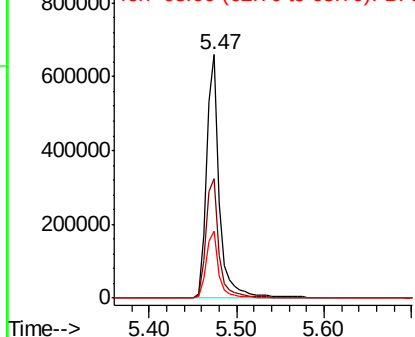
#5

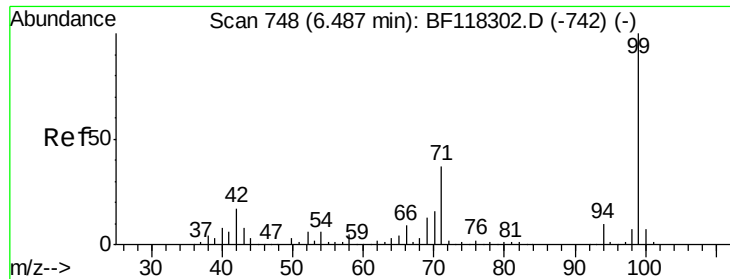
2-Fluorophenol  
Concen: 90.633 ng  
RT: 5.47 min Scan# 576  
Delta R.T. 0.01 min  
Lab File: BF118402.D  
Acq: 31 Dec 2019 13:44

Tgt Ion:112 Resp: 677709  
Ion Ratio Lower Upper  
112 100  
64 49.1 39.7 59.5  
63 27.4 21.7 32.5



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: 92.424 ng

RT: 6.49 min Scan# 749

Delta R.T. 0.01 min

Lab File: BF118402.D

Acq: 31 Dec 2019 13:44

Instrument :

BNA\_F

ClientSampled :

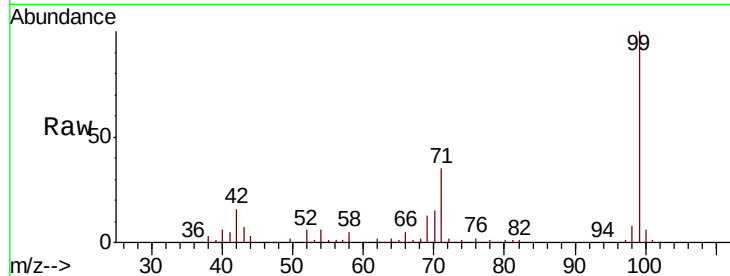
Tot Ion: 99 Resp: 857326

Ion Ratio Lower Upper

99 100

42 15.7 13.5 20.3

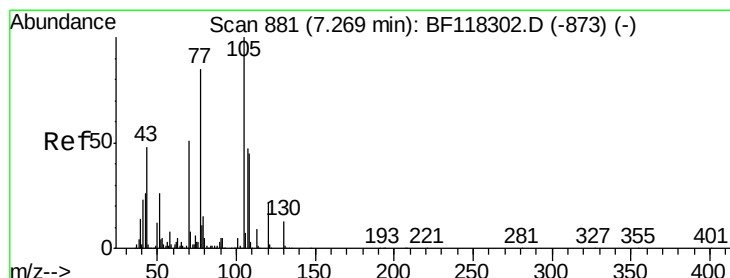
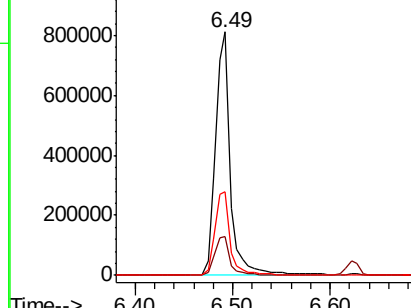
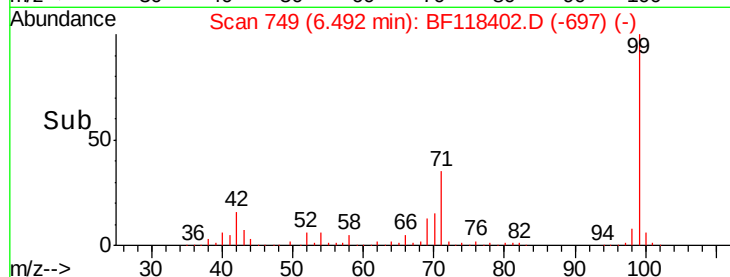
71 34.6 29.4 44.2



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



#19

n-Nitroso-di-n-propylamine

Concen: 11.905 ng

RT: 7.42 min Scan# 906

Delta R.T. 0.15 min

Lab File: BF118402.D

Acq: 31 Dec 2019 13:44

Tgt Ion: 70 Resp: 68027

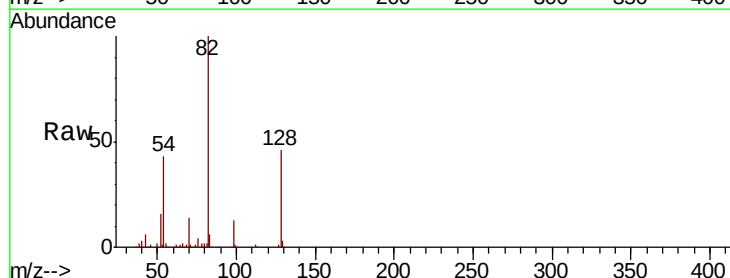
Ion Ratio Lower Upper

70 100

42 42.9 41.1 61.7

101 0.0 8.3 12.5#

130 2.4 20.1 30.1#

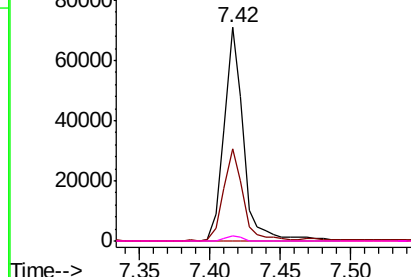
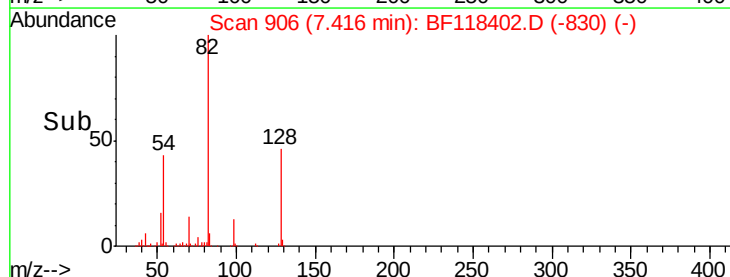


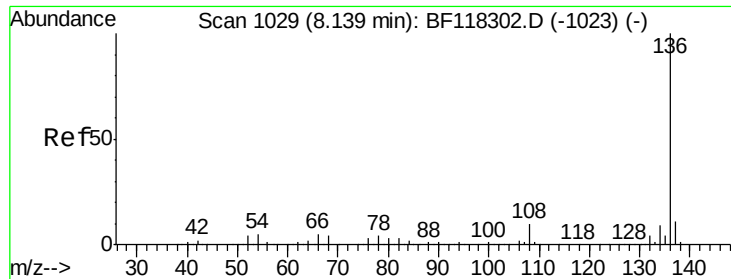
Abundance Ion 70.00 (69.70 to 70.70): BF1

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

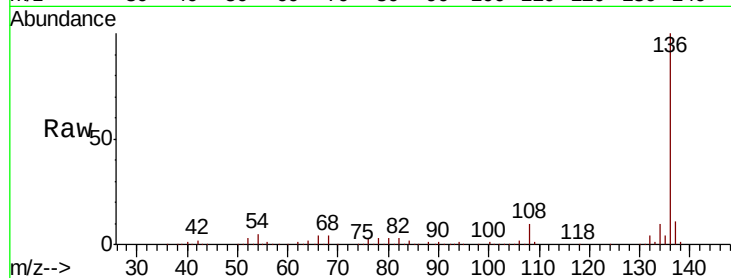




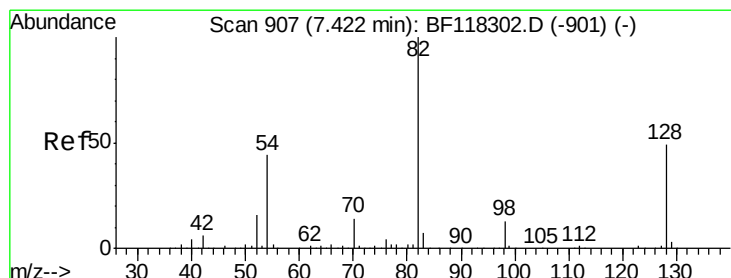
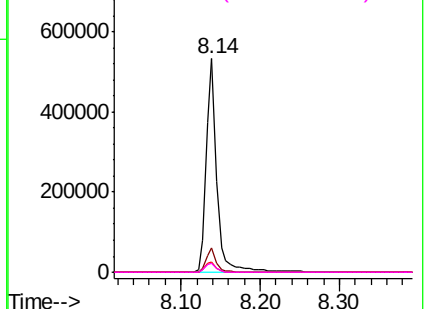
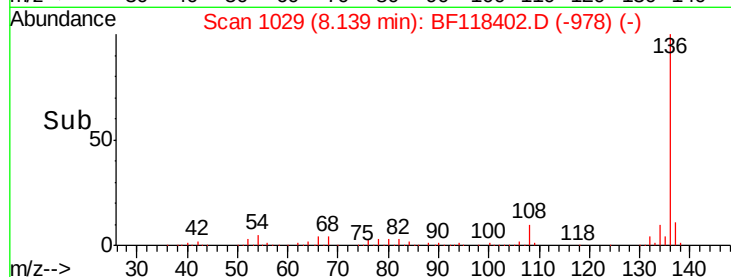
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.14 min Scan# 1029  
Delta R.T. -0.00 min  
Lab File: BF118402.D  
Acq: 31 Dec 2019 13:44

Instrument :  
BNA\_F  
ClientSampleId :

|             |       |             |
|-------------|-------|-------------|
| Tot Ion:136 | Resp: | 500709      |
| Ion         | Ratio | Lower Upper |
| 136         | 100   |             |
| 137         | 11.1  | 8.9 13.3    |
| 54          | 5.0   | 4.2 6.4     |
| 68          | 4.2   | 3.5 5.3     |

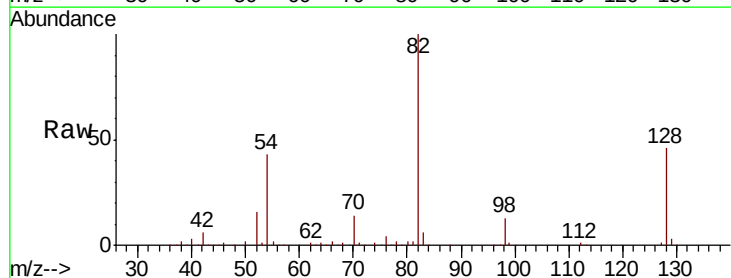


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1

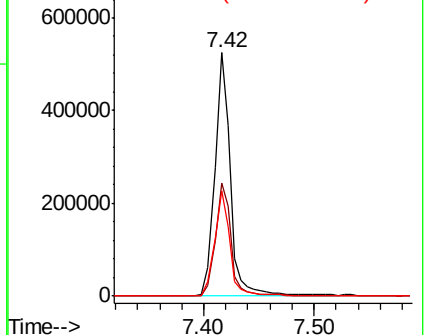
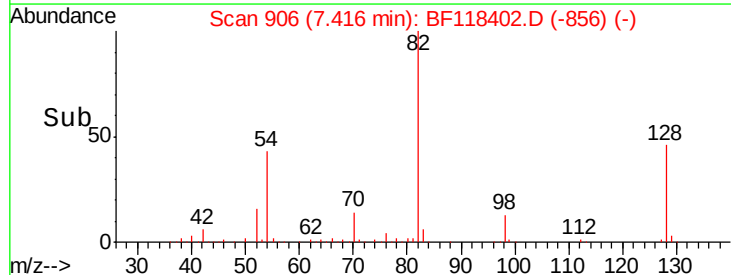


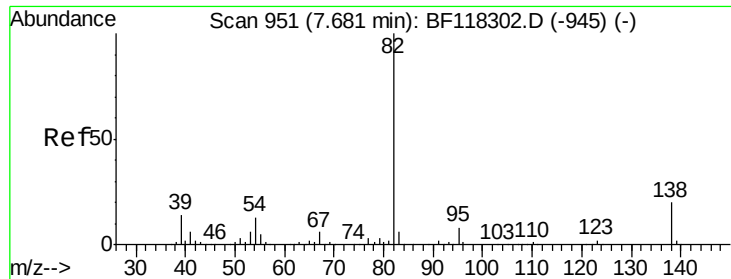
#23  
Nitrobenzene-d5  
Concen: 58.383 ng  
RT: 7.42 min Scan# 906  
Delta R.T. -0.01 min  
Lab File: BF118402.D  
Acq: 31 Dec 2019 13:44

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 82 | Resp: | 511110      |
| Ion         | Ratio | Lower Upper |
| 82          | 100   |             |
| 128         | 46.3  | 39.6 59.4   |
| 54          | 43.4  | 34.9 52.3   |



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





#25

Isophorone

Concen: 33.499 ng

RT: 7.42 min Scan# 906

Delta R.T. -0.26 min

Lab File: BF118402.D

Acq: 31 Dec 2019 13:44

Instrument :

BNA\_F

ClientSampleId :

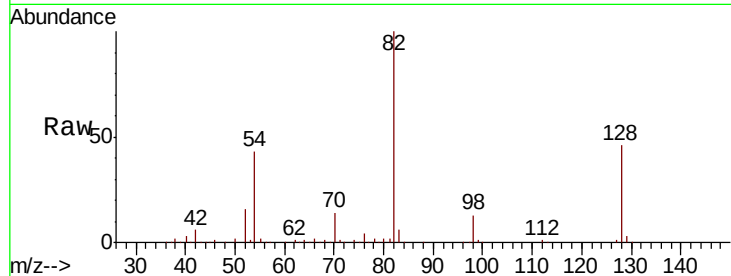
Tot Ion: 82 Resp: 511104

Ion Ratio Lower Upper

82 100

95 0.0 6.3 9.5#

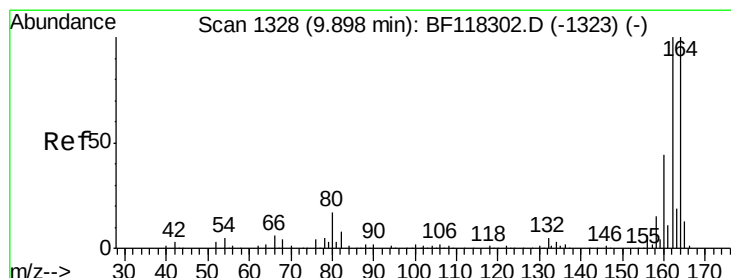
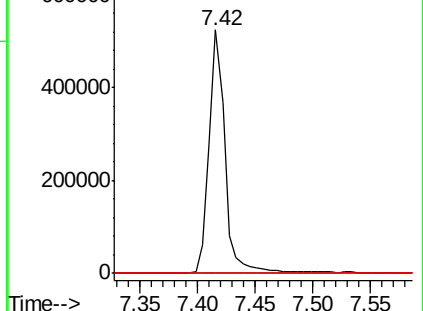
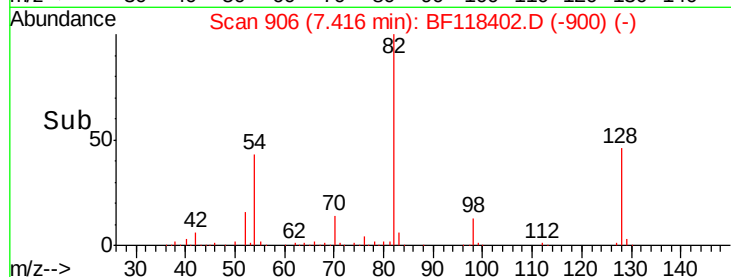
138 0.0 16.2 24.2#



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): E



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.90 min Scan# 1328

Delta R.T. -0.00 min

Lab File: BF118402.D

Acq: 31 Dec 2019 13:44

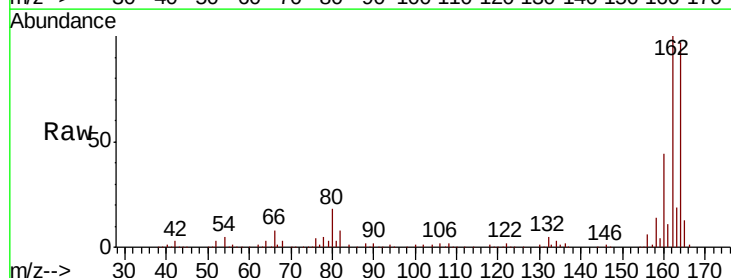
Tgt Ion: 164 Resp: 269245

Ion Ratio Lower Upper

164 100

162 103.4 80.0 120.0

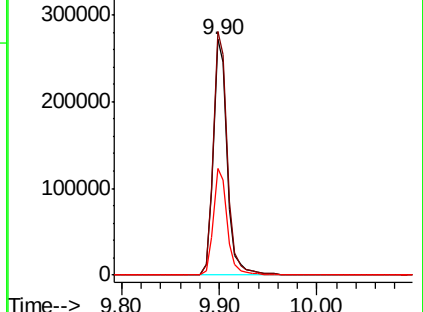
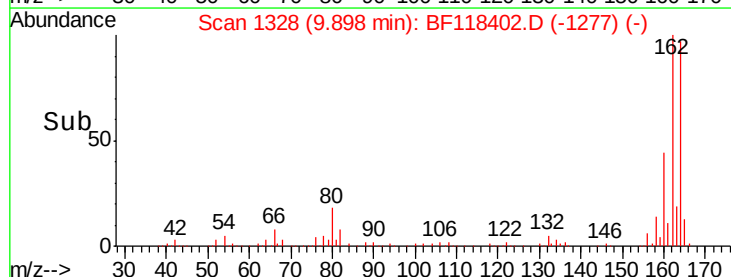
160 45.5 34.8 52.2

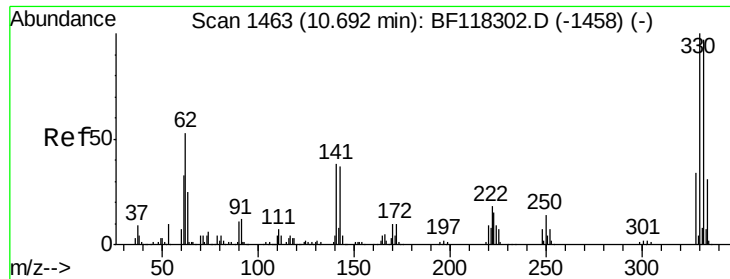


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

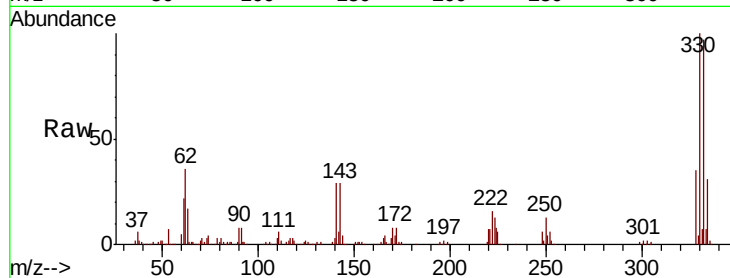




#42  
 2,4,6-Tribromophenol  
 Concen: 88.550 ng  
 RT: 10.70 min Scan# 1464  
 Delta R.T. 0.01 min  
 Lab File: BF118402.D  
 Acq: 31 Dec 2019 13:44

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.5  | 76.6  | 114.8 |
| 141     | 32.1  | 26.0  | 39.0  |

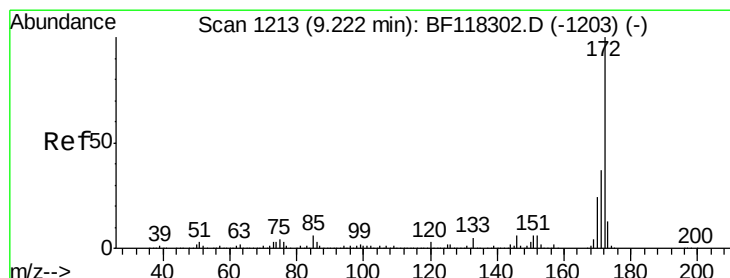
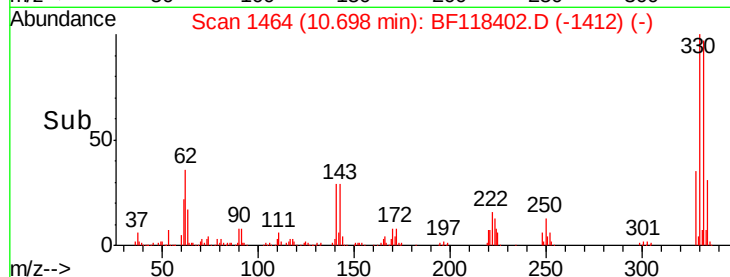
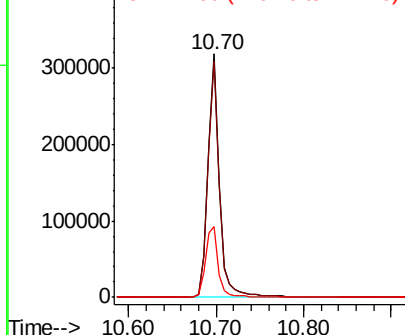


Abundance

Ion 329.80 (329.50 to 330.50): E

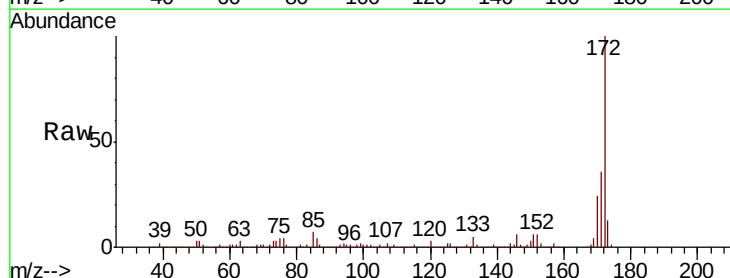
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45  
 2-Fluorobiphenyl  
 Concen: 61.149 ng  
 RT: 9.22 min Scan# 1212  
 Delta R.T. -0.01 min  
 Lab File: BF118402.D  
 Acq: 31 Dec 2019 13:44

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.9  | 29.3  | 43.9  |
| 170     | 23.8  | 19.2  | 28.8  |

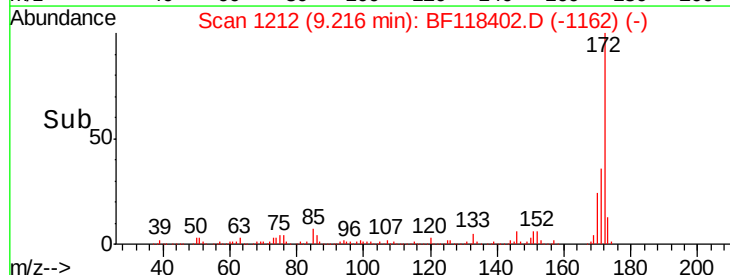
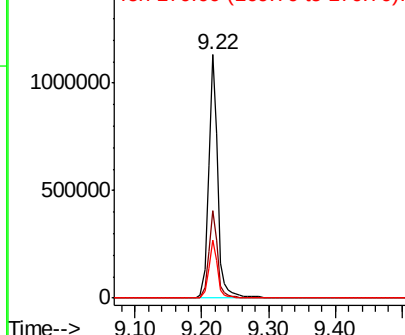


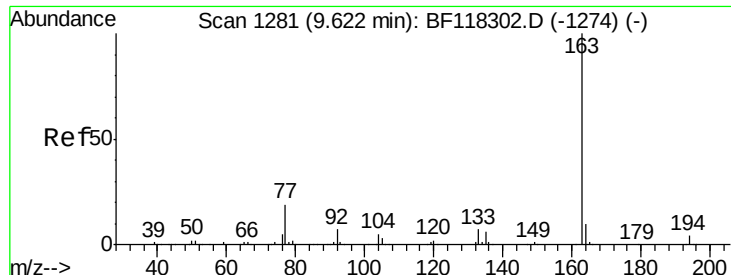
Abundance

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

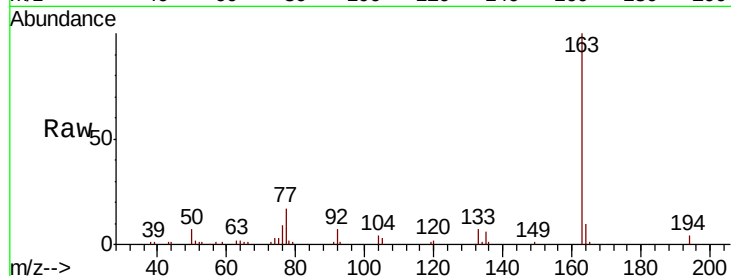




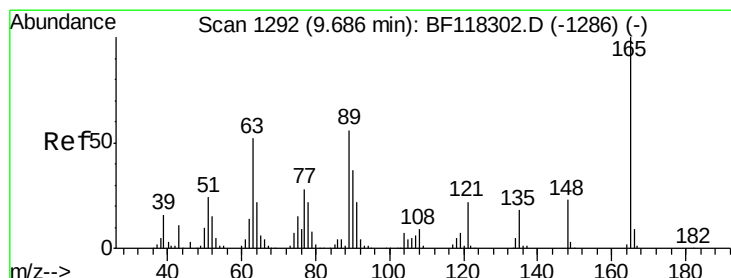
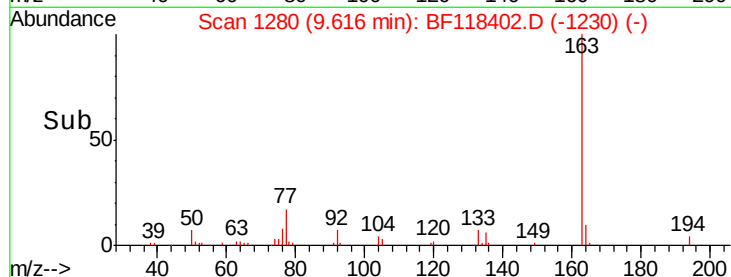
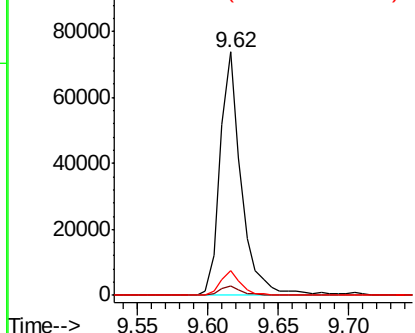
#50  
Dimethylphthalate  
Concen: 3.837 ng  
RT: 9.62 min Scan# 1280  
Delta R.T. -0.01 min  
Lab File: BF118402.D  
Acq: 31 Dec 2019 13:44

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:163 Resp: 77543  
Ion Ratio Lower Upper  
163 100  
194 4.0 3.2 4.8  
164 10.2 7.9 11.9

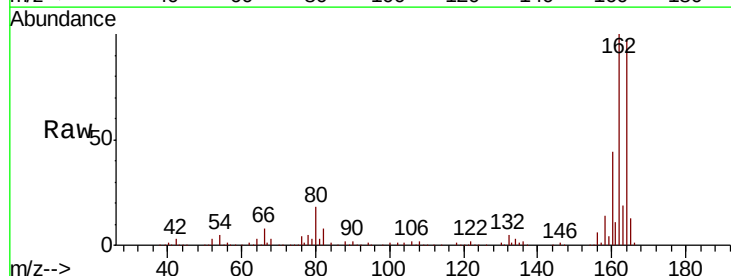


Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

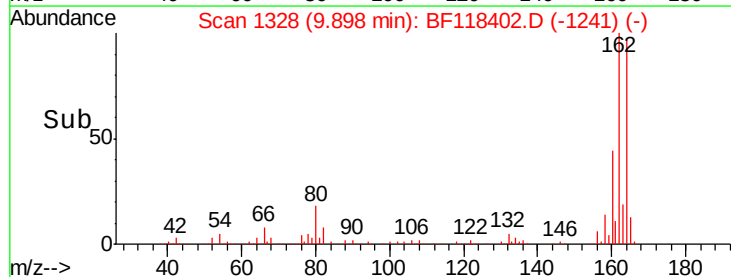
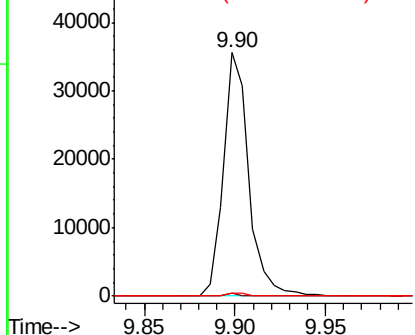


#51  
2,6-Dinitrotoluene  
Concen: 7.936 ng  
RT: 9.90 min Scan# 1328  
Delta R.T. 0.21 min  
Lab File: BF118402.D  
Acq: 31 Dec 2019 13:44

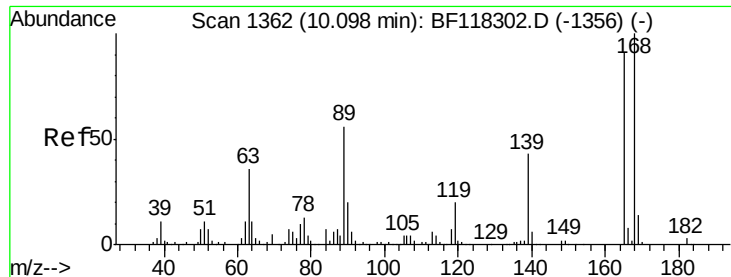
Tgt Ion:165 Resp: 34579  
Ion Ratio Lower Upper  
165 100  
63 1.4 42.2 63.4#  
89 1.4 44.4 66.6#



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







#57

2,4-Dinitrotoluene

Concen: 5.939 ng

RT: 9.90 min Scan# 1328

Delta R.T. -0.20 min

Lab File: BF118402.D

Acq: 31 Dec 2019 13:44

Instrument :

BNA\_F

ClientSampled :

Tot Ion:165 Resp: 34579

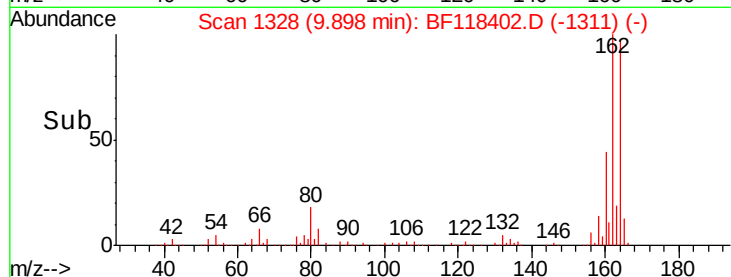
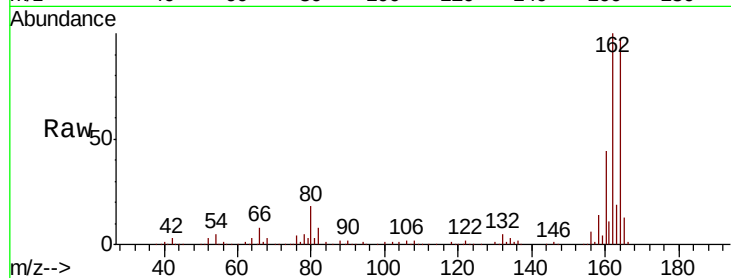
Ion Ratio Lower Upper

165 100

63 1.4 32.0 48.0#

89 1.4 49.3 73.9#

182 0.0 2.4 3.6#

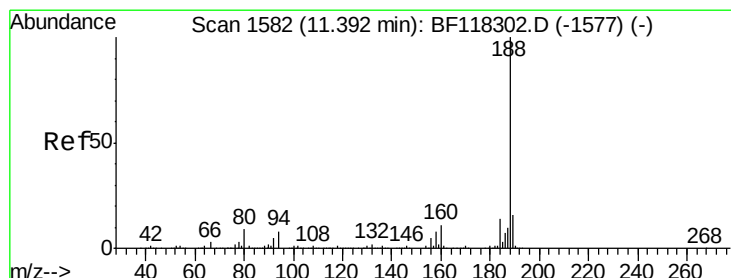
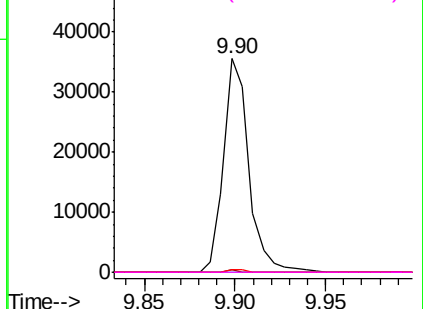


Abundance Ion 165.00 (164.70 to 165.70): E

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: 11.40 min Scan# 1583

Delta R.T. 0.01 min

Lab File: BF118402.D

Acq: 31 Dec 2019 13:44

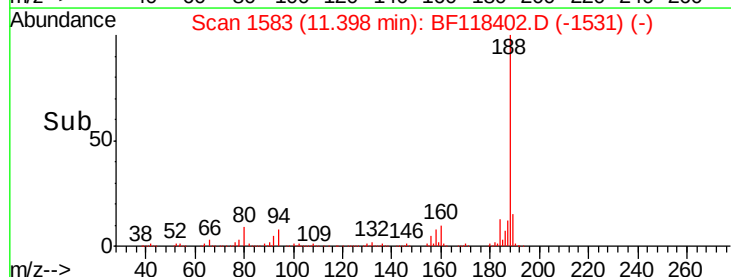
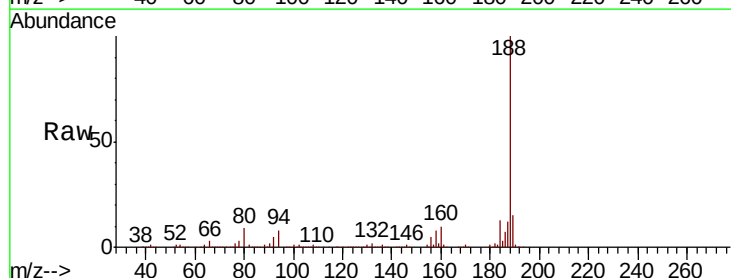
Tgt Ion:188 Resp: 523047

Ion Ratio Lower Upper

188 100

94 7.9 6.7 10.1

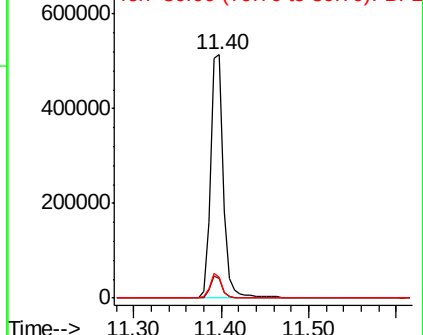
80 8.6 7.2 10.8

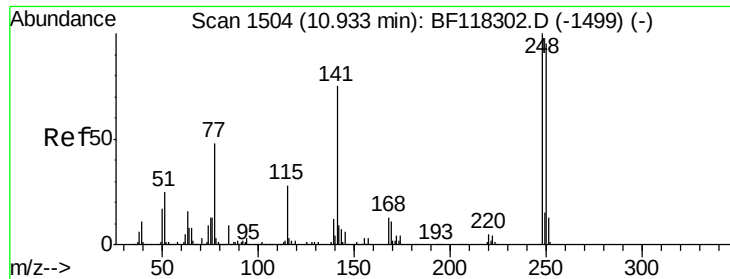


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

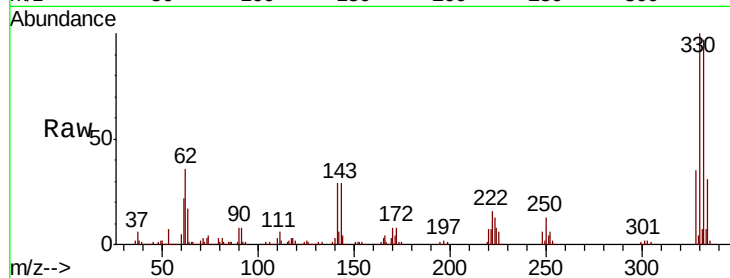




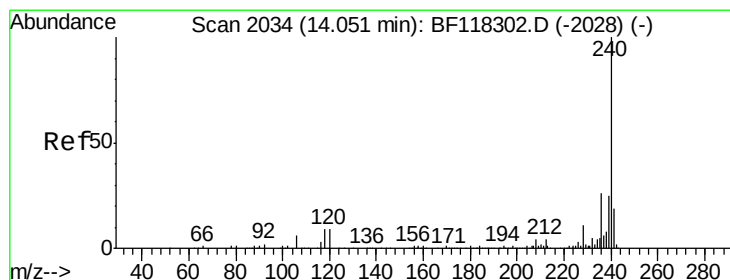
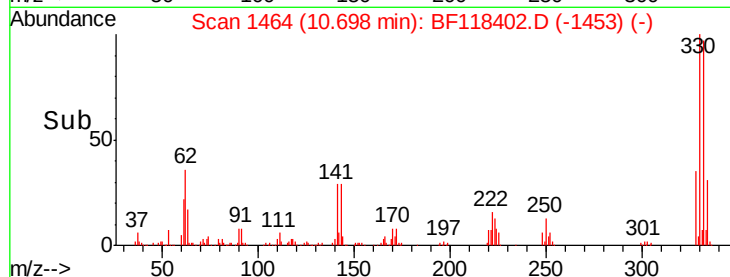
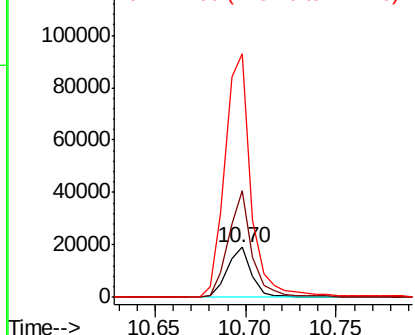
#67  
 4-Bromophenyl-phenylether  
 Concen: 2.964 ng  
 RT: 10.70 min Scan# 1464  
 Delta R.T. -0.24 min  
 Lab File: BF118402.D  
 Acq: 31 Dec 2019 13:44

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:248 Resp: 18141  
 Ion Ratio Lower Upper  
 248 100  
 250 212.2 76.4 114.6#  
 141 487.2 60.2 90.2#

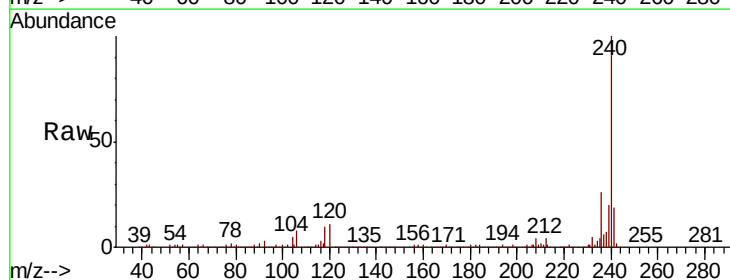


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

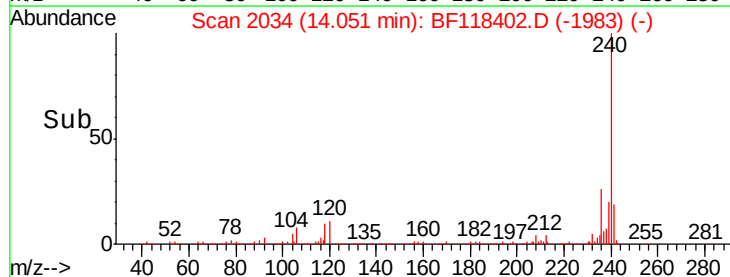
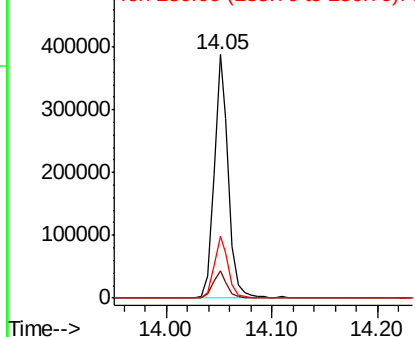


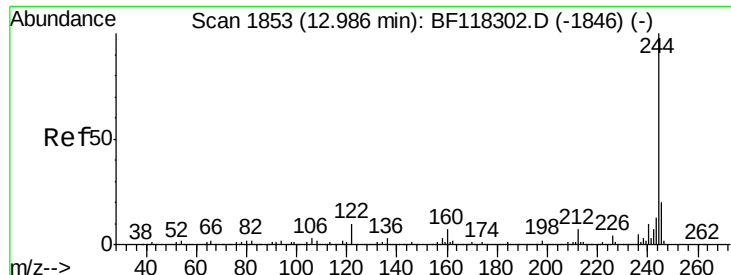
#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 14.05 min Scan# 2034  
 Delta R.T. -0.00 min  
 Lab File: BF118402.D  
 Acq: 31 Dec 2019 13:44

Tgt Ion:240 Resp: 367784  
 Ion Ratio Lower Upper  
 240 100  
 120 11.2 7.1 10.7#  
 236 25.6 21.0 31.6



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





#79

Terphenyl-d14

Concen: 60.497 ng

RT: 12.99 min Scan# 1853

Delta R.T. -0.00 min

Lab File: BF118402.D

Acq: 31 Dec 2019 13:44

Instrument :

BNA\_F

ClientSampleId :

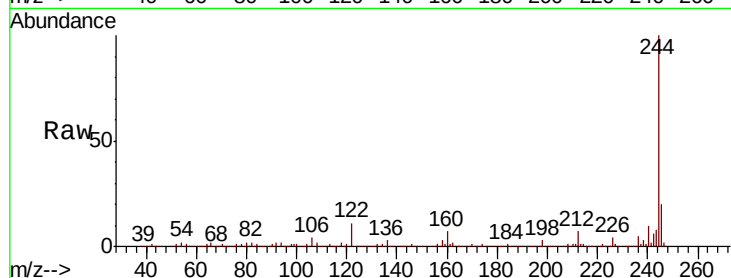
Tot Ion:244 Resp: 1341144

Ion Ratio Lower Upper

244 100

212 6.9 5.4 8.2

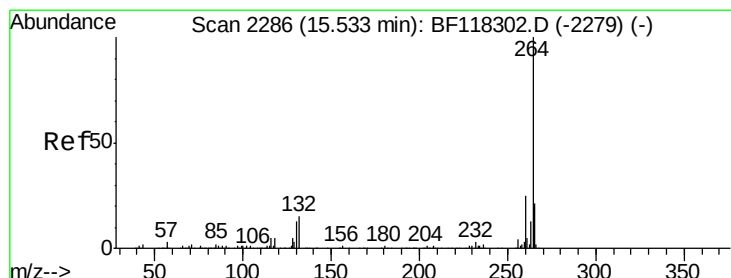
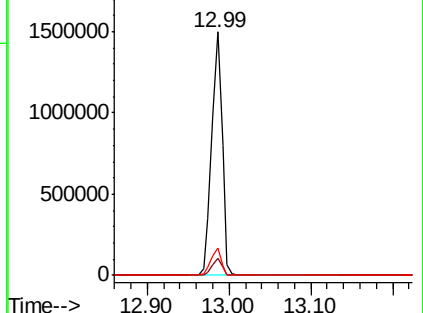
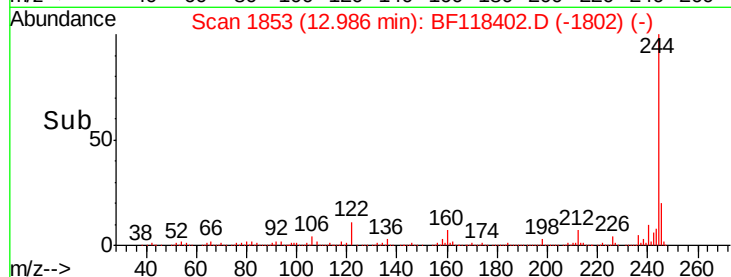
122 11.1 7.8 11.8



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



#87

Perylene-d12

Concen: 20.000 ng

RT: 15.55 min Scan# 2289

Delta R.T. 0.02 min

Lab File: BF118402.D

Acq: 31 Dec 2019 13:44

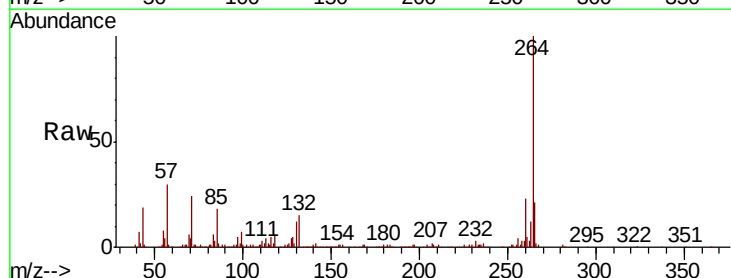
Tgt Ion:264 Resp: 343071

Ion Ratio Lower Upper

264 100

260 23.5 19.8 29.6

265 20.6 17.0 25.4



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

