

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102919\  
 Data File : BF117602.D  
 Acq On : 29 Oct 2019 20:18  
 Operator : JU  
 Sample : K5497-19 2X  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Oct 30 03:33:03 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF101819.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Oct 18 18:53:31 2019  
 Response via : Initial Calibration

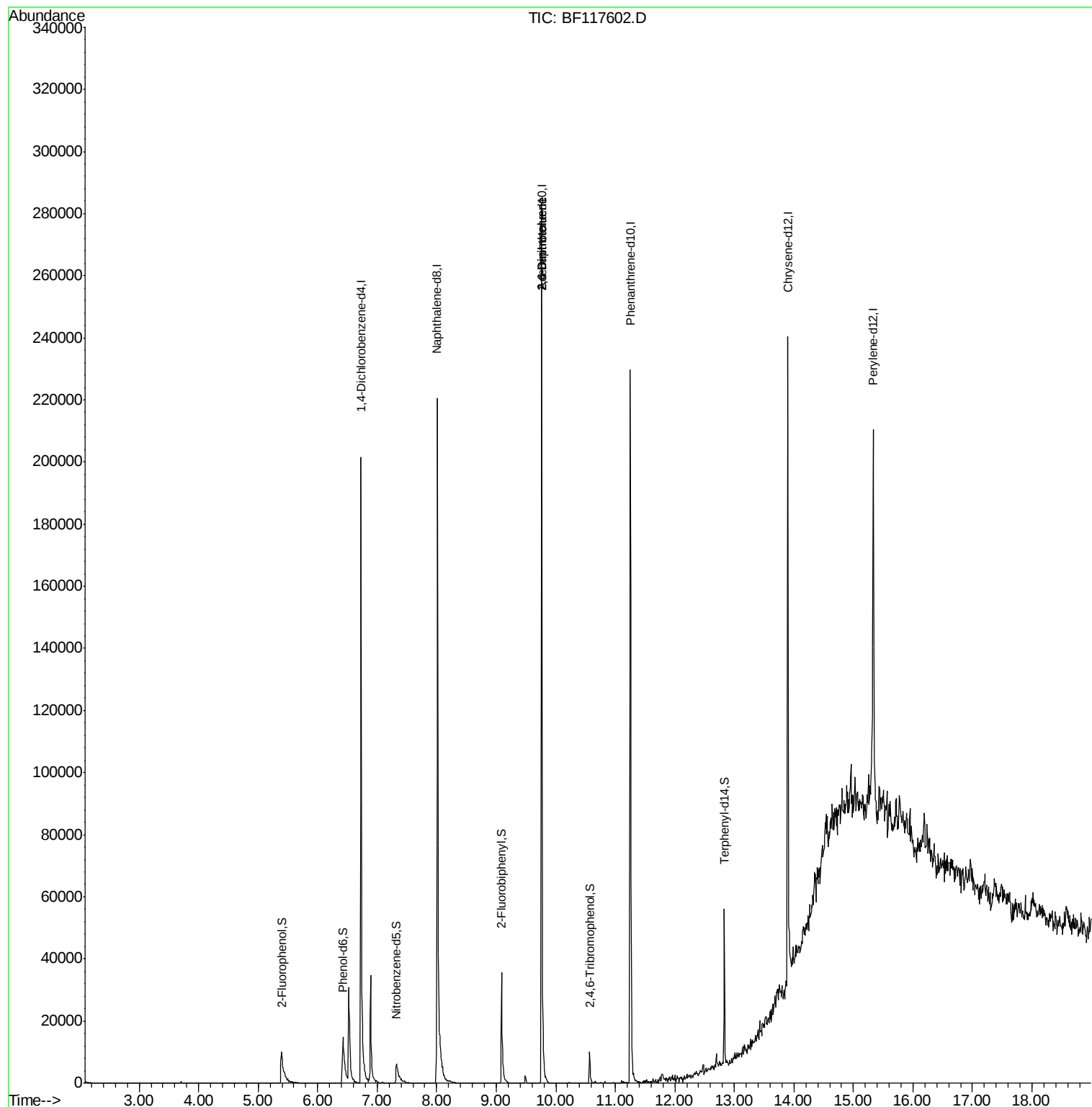
| Internal Standards          | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.73  | 152  | 37101    | 20.00     | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.01  | 136  | 151981   | 20.00     | ng    | 0.00     |
| 39) Acenaphthene-d10        | 9.76  | 164  | 66786    | 20.00     | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.25 | 188  | 101327   | 20.00     | ng    | 0.00     |
| 76) Chrysene-d12            | 13.90 | 240  | 72255    | 20.00     | ng    | 0.00     |
| 87) Perylene-d12            | 15.33 | 264  | 56516    | 20.00     | ng    | 0.01     |
| System Monitoring Compounds |       |      |          |           |       |          |
| 5) 2-Fluorophenol           | 5.39  | 112  | 11968    | 4.80      | ng    | 0.04     |
| 7) Phenol-d6                | 6.42  | 99   | 20906    | 6.24      | ng    | 0.04     |
| 23) Nitrobenzene-d5         | 7.32  | 82   | 9903     | 3.22      | ng    | 0.02     |
| 42) 2,4,6-Tribromophenol    | 10.57 | 330  | 2534     | 4.39      | ng    | 0.01     |
| 45) 2-Fluorobiphenyl        | 9.09  | 172  | 22464    | 4.74      | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.83 | 244  | 19001    | 4.29      | ng    | 0.00     |
| Target Compounds            |       |      |          |           |       |          |
| 51) 2,6-Dinitrotoluene      | 9.76  | 165  | 8636     | 8.692     | ng    | # 22     |
| 57) 2,4-Dinitrotoluene      | 9.76  | 165  | 8636     | 6.538     | ng    | # 12     |
| 77) Benzidine               | 12.83 | 184  | 275      | Below Cal |       | # 67     |

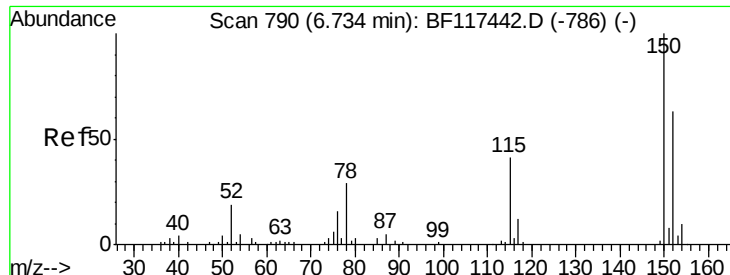
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102919\  
Data File : BF117602.D  
Acq On : 29 Oct 2019 20:18  
Operator : JU  
Sample : K5497-19 2X  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :

Quant Time: Oct 30 03:33:03 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF101819.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Oct 18 18:53:31 2019  
Response via : Initial Calibration



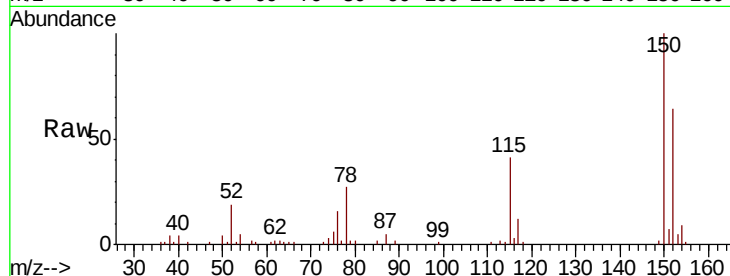


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.73 min Scan# 789  
Delta R.T. -0.01 min  
Lab File: BF117602.D  
Acq: 29 Oct 2019 20:18

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 155.5 | 126.8 | 190.2 |
| 115     | 64.3  | 51.6  | 77.4  |

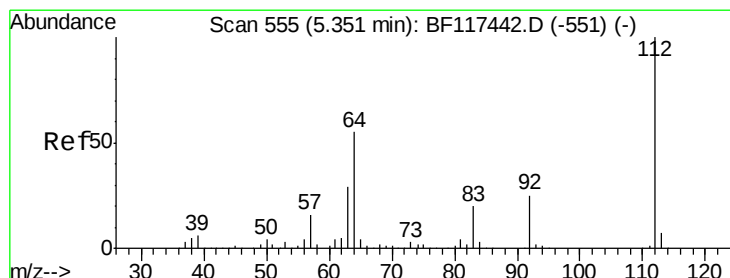
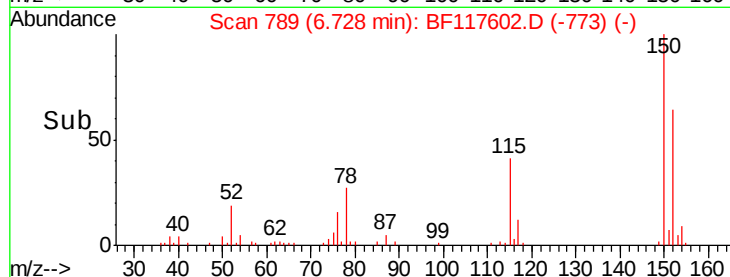
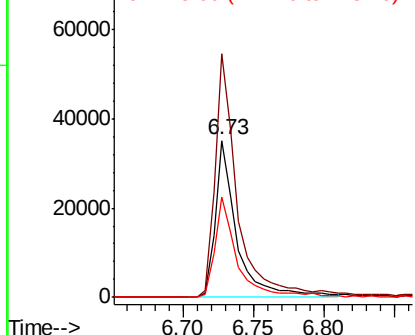


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

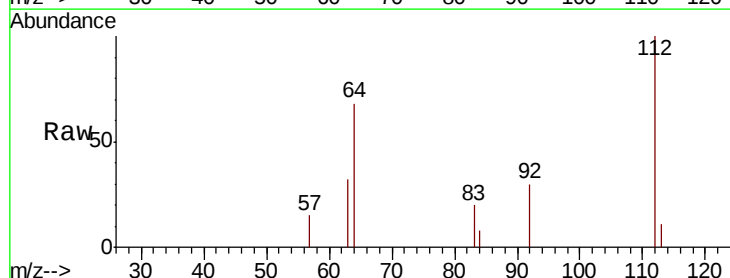
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 4.799 ng  
RT: 5.39 min Scan# 562  
Delta R.T. 0.04 min  
Lab File: BF117602.D  
Acq: 29 Oct 2019 20:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 68.0  | 44.1  | 66.1# |
| 63      | 31.9  | 23.4  | 35.2  |

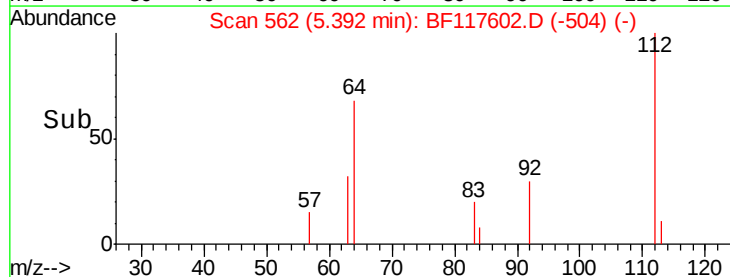
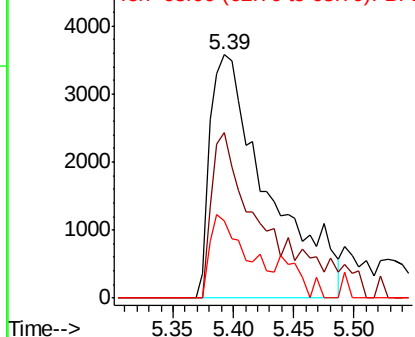


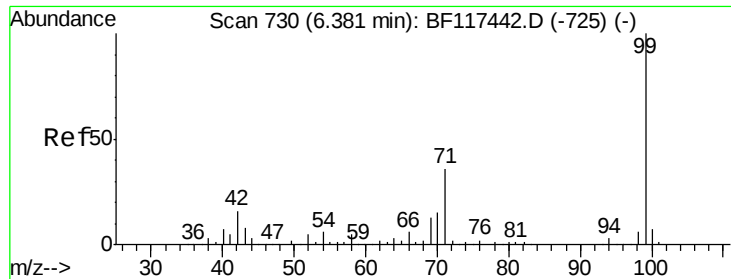
Abundance

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: 6.242 ng

RT: 6.42 min Scan# 737

Delta R.T. 0.04 min

Lab File: BF117602.D

Acq: 29 Oct 2019 20:18

Instrument :

BNA\_F

ClientSampleId :

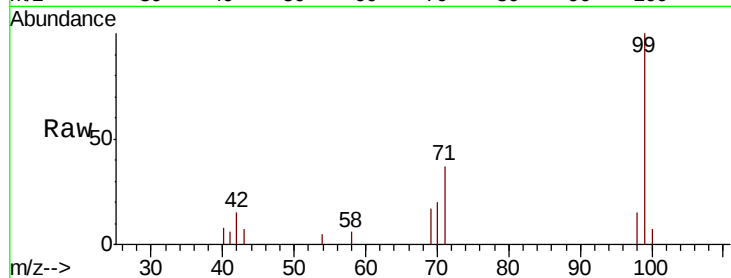
Tot Ion: 99 Resp: 20906

Ion Ratio Lower Upper

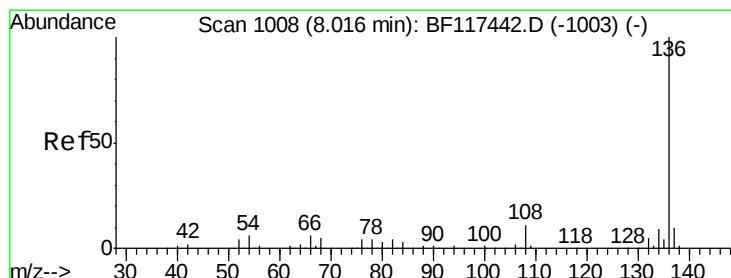
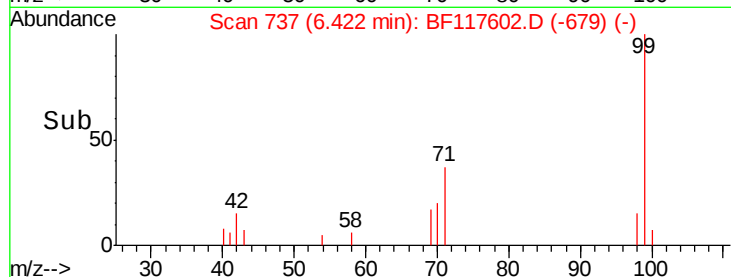
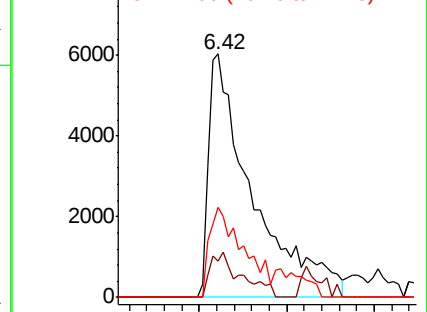
99 100

42 15.1 12.8 19.2

71 36.8 28.6 43.0



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



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.01 min Scan# 1007

Delta R.T. -0.01 min

Lab File: BF117602.D

Acq: 29 Oct 2019 20:18

Tgt Ion: 136 Resp: 151981

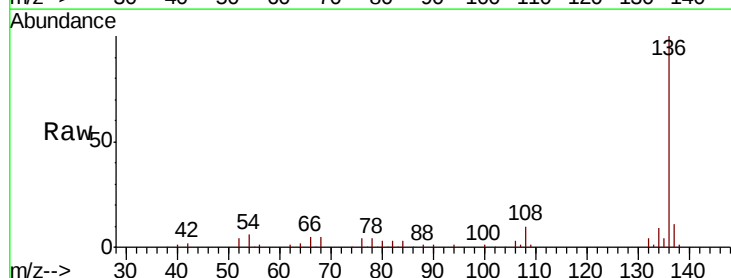
Ion Ratio Lower Upper

136 100

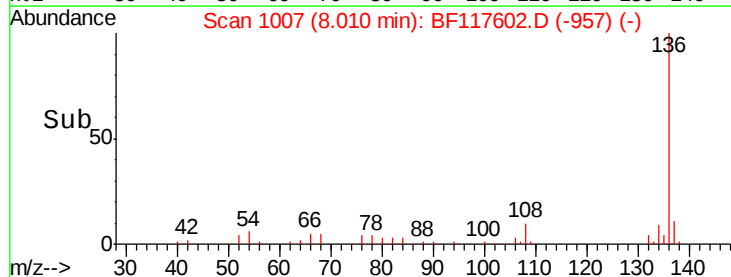
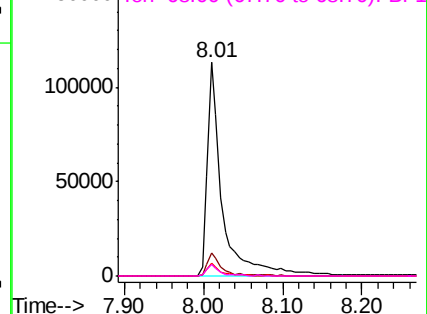
137 10.8 8.2 12.4

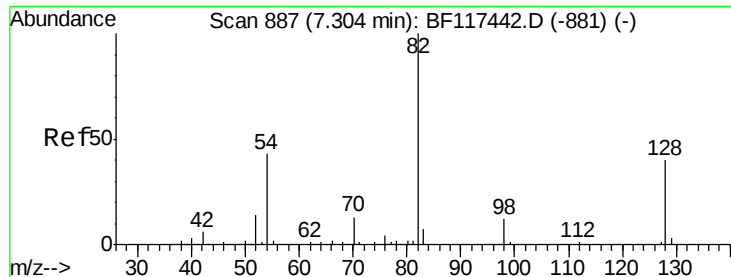
54 5.9 4.5 6.7

68 5.4 4.3 6.5



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

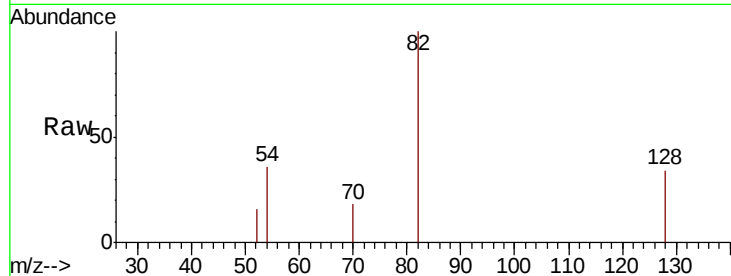




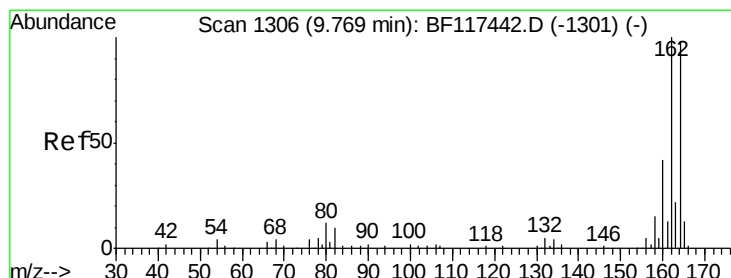
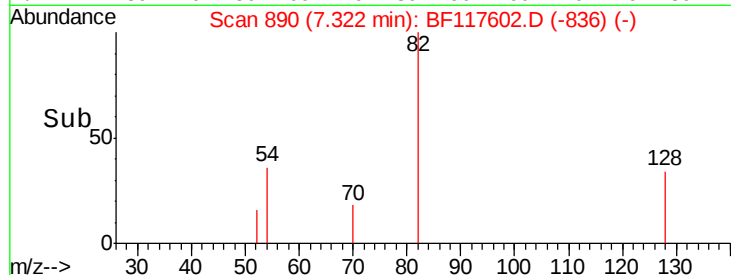
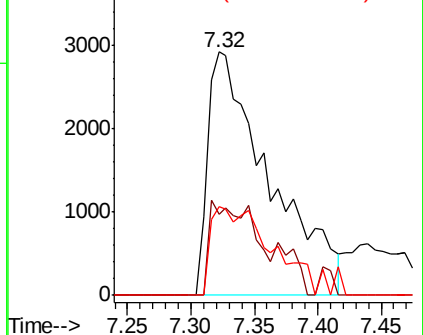
#23  
 Nitrobenzene-d5  
 Concen: 3.217 ng  
 RT: 7.32 min Scan# 890  
 Delta R.T. 0.02 min  
 Lab File: BF117602.D  
 Acq: 29 Oct 2019 20:18

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion   | 82    | Resp  | 9903 |
|-----------|-------|-------|------|
| Ion Ratio | Lower | Upper |      |
| 82        | 100   |       |      |
| 128       | 33.5  | 32.2  | 48.2 |
| 54        | 36.4  | 34.2  | 51.2 |

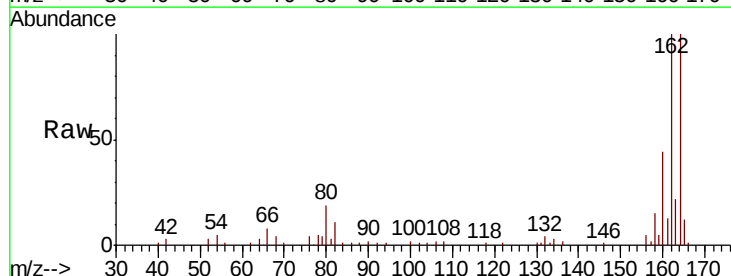


Abundance Ion 82.00 (81.70 to 82.70): BF1  
 Ion 128.00 (127.70 to 128.70): E  
 Ion 54.00 (53.70 to 54.70): BF1

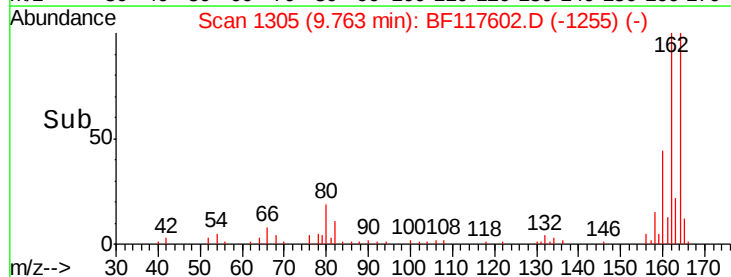
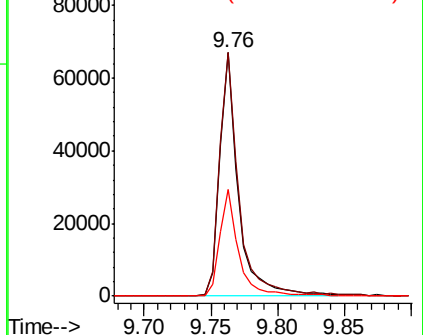


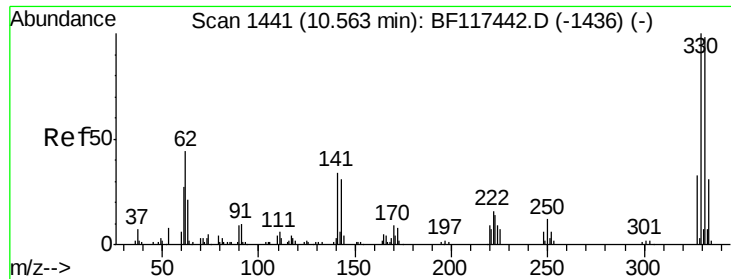
#39  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.76 min Scan# 1305  
 Delta R.T. -0.01 min  
 Lab File: BF117602.D  
 Acq: 29 Oct 2019 20:18

| Tgt Ion   | 164   | Resp  | 66786 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 164       | 100   |       |       |
| 162       | 100.1 | 81.8  | 122.6 |
| 160       | 43.6  | 34.4  | 51.6  |



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

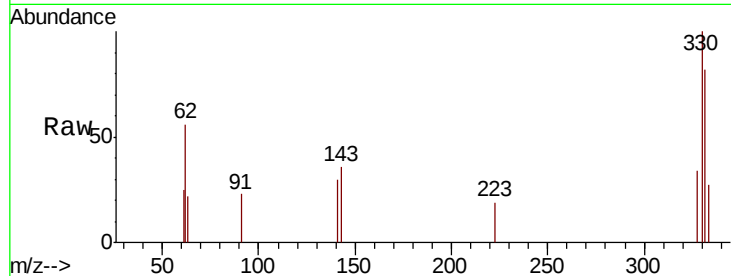




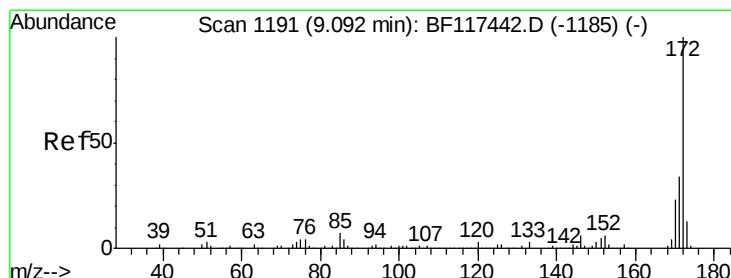
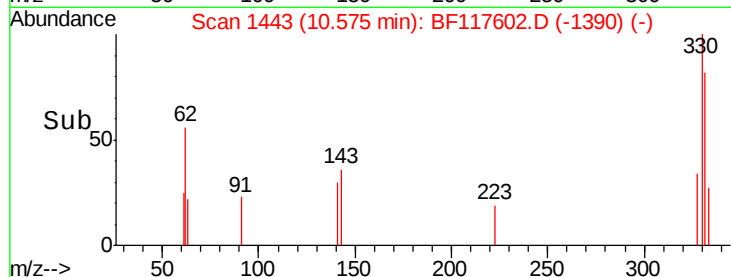
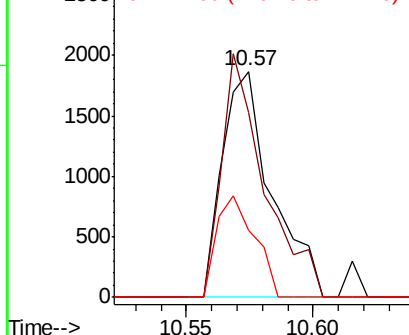
#42  
 2,4,6-Tribromophenol  
 Concen: 4.385 ng  
 RT: 10.57 min Scan# 1443  
 Delta R.T. 0.01 min  
 Lab File: BF117602.D  
 Acq: 29 Oct 2019 20:18

Instrument :  
 BNA\_F  
 ClientSampled :

Tot Ion:330 Resp: 2534  
 Ion Ratio Lower Upper  
 330 100  
 332 93.6 78.5 117.7  
 141 34.6 37.0 55.6#

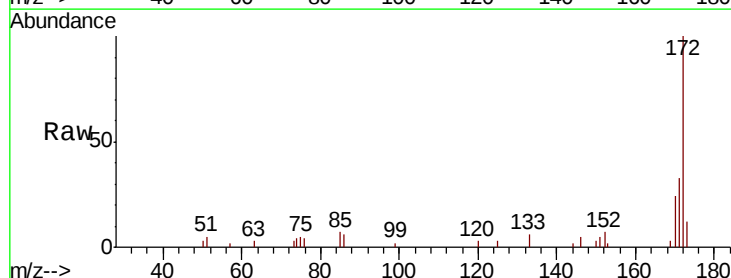


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

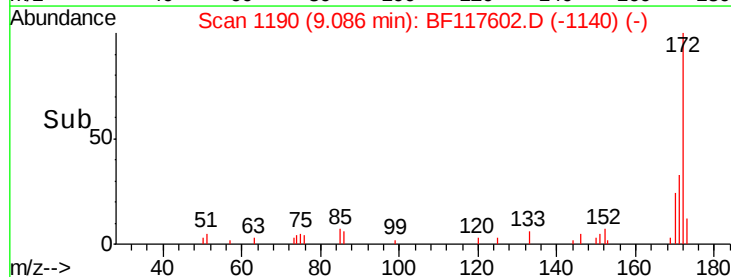
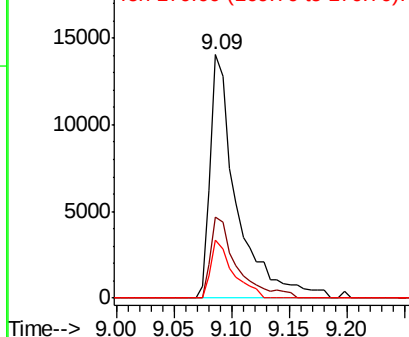


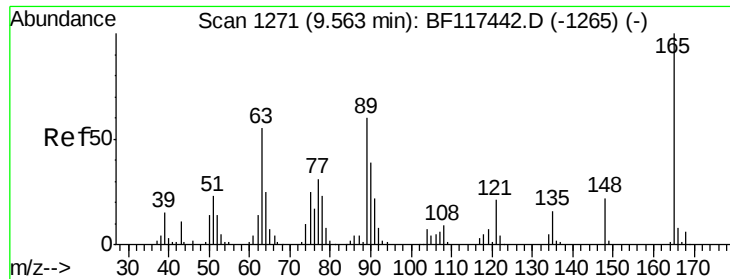
#45  
 2-Fluorobiphenyl  
 Concen: 4.739 ng  
 RT: 9.09 min Scan# 1190  
 Delta R.T. -0.01 min  
 Lab File: BF117602.D  
 Acq: 29 Oct 2019 20:18

Tgt Ion:172 Resp: 22464  
 Ion Ratio Lower Upper  
 172 100  
 171 33.1 27.5 41.3  
 170 23.6 18.6 27.8



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

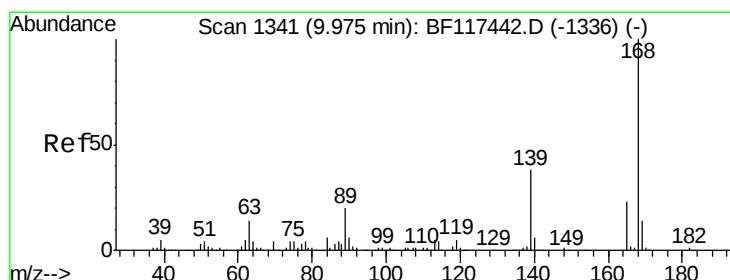
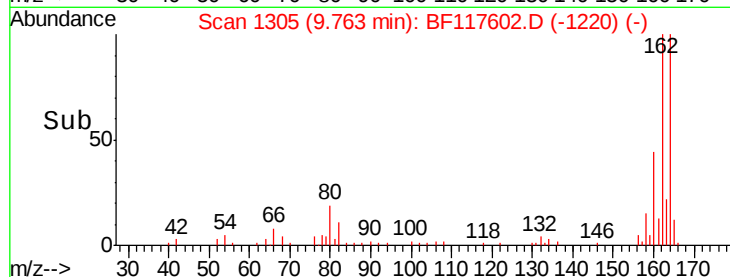
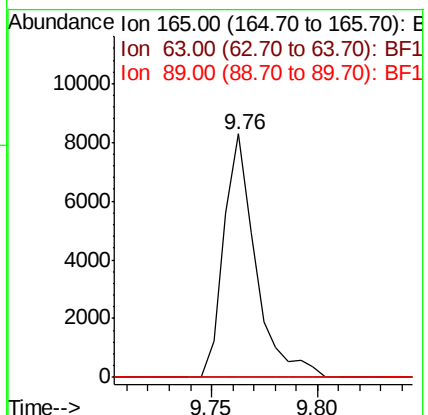
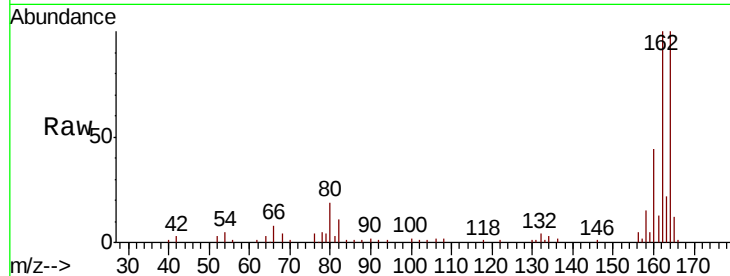




#51  
 2,6-Dinitrotoluene  
 Concen: 8.692 ng  
 RT: 9.76 min Scan# 1305  
 Delta R.T. 0.20 min  
 Lab File: BF117602.D  
 Acq: 29 Oct 2019 20:18

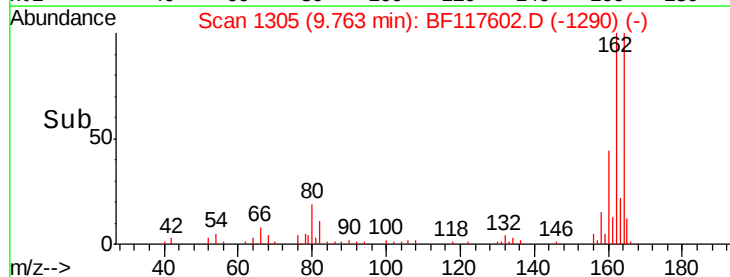
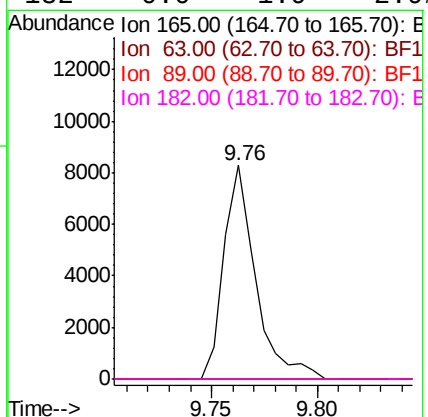
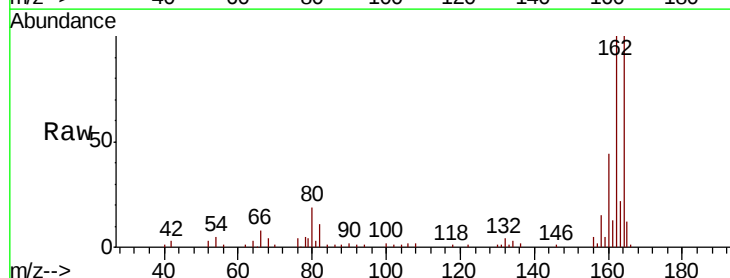
Instrument :  
 BNA\_F  
 ClientSampled :

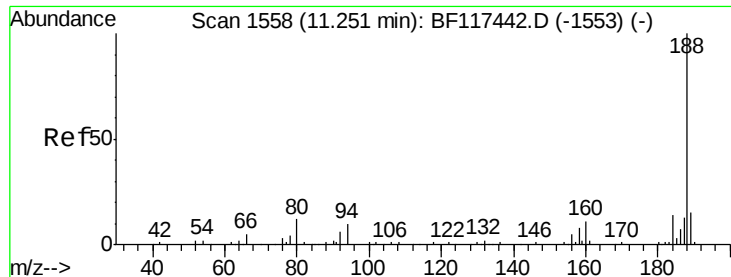
Tot Ion:165 Resp: 8636  
 Ion Ratio Lower Upper  
 165 100  
 63 0.0 43.8 65.8#  
 89 0.0 47.6 71.4#



#57  
 2,4-Dinitrotoluene  
 Concen: 6.538 ng  
 RT: 9.76 min Scan# 1305  
 Delta R.T. -0.21 min  
 Lab File: BF117602.D  
 Acq: 29 Oct 2019 20:18

Tgt Ion:165 Resp: 8636  
 Ion Ratio Lower Upper  
 165 100  
 63 0.0 51.4 77.0#  
 89 0.0 69.9 104.9#  
 182 0.0 1.9 2.9#





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.25 min Scan# 1558

Delta R.T. -0.00 min

Lab File: BF117602.D

Acq: 29 Oct 2019 20:18

Instrument :

BNA\_F

ClientSampleId :

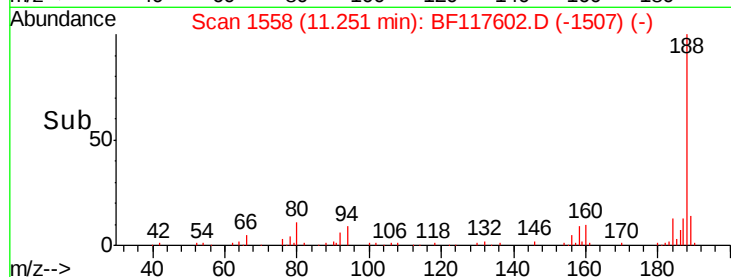
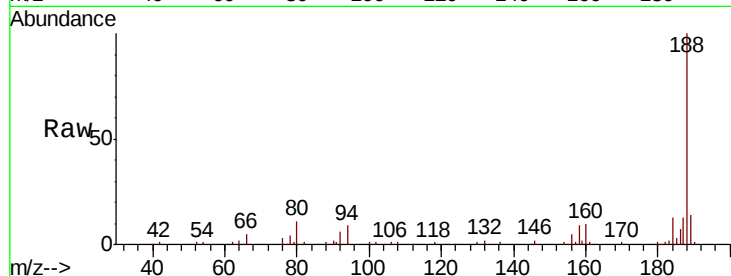
Tot Ion:188 Resp: 101327

Ion Ratio Lower Upper

188 100

94 9.1 8.0 12.0

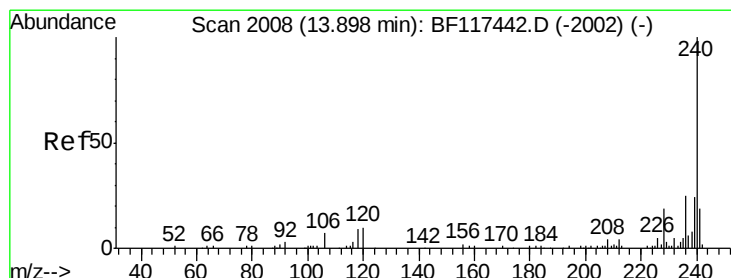
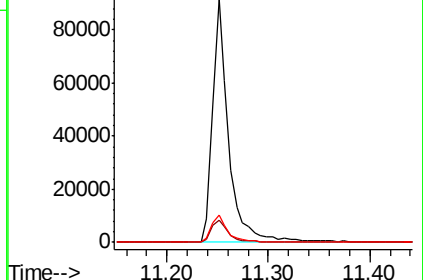
80 11.3 9.5 14.3



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



#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.90 min Scan# 2008

Delta R.T. -0.00 min

Lab File: BF117602.D

Acq: 29 Oct 2019 20:18

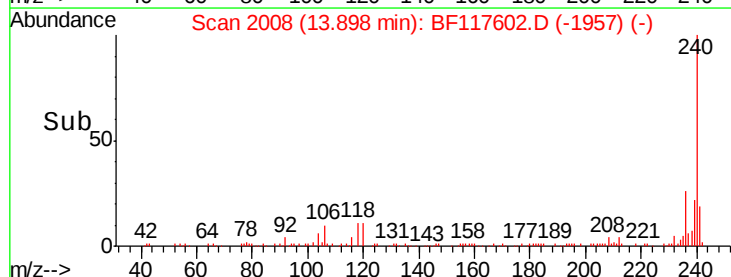
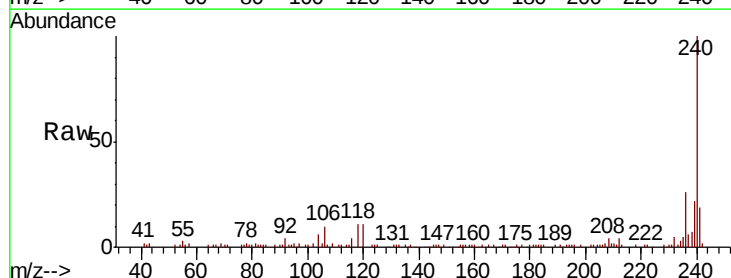
Tgt Ion:240 Resp: 72255

Ion Ratio Lower Upper

240 100

120 11.3 8.4 12.6

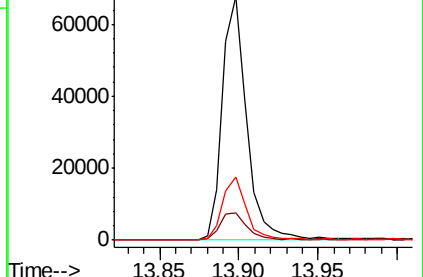
236 25.9 20.0 30.0

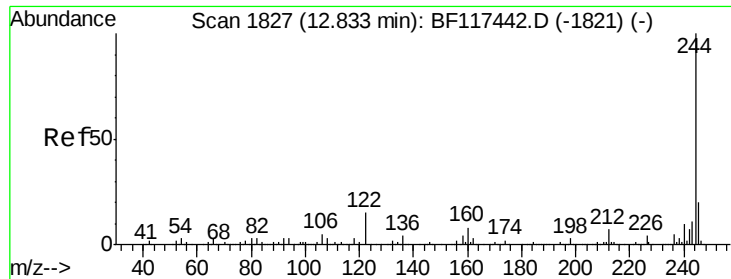


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

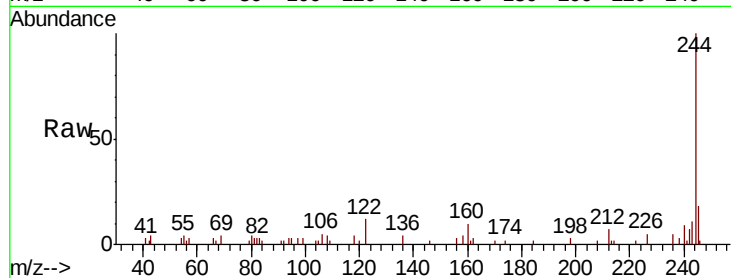




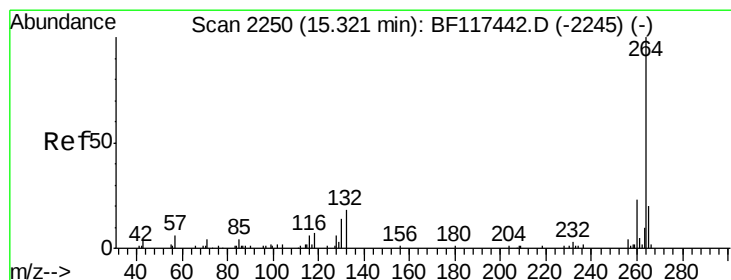
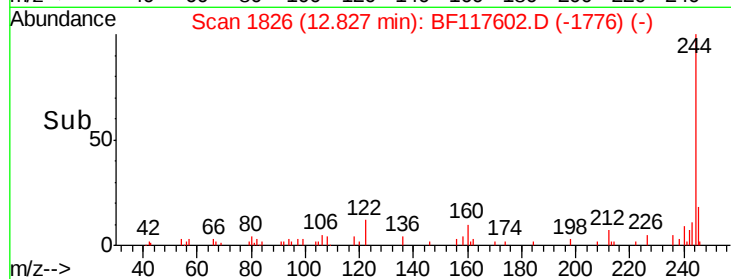
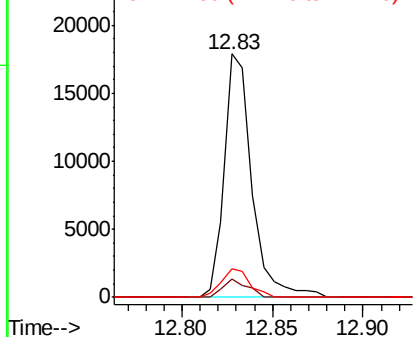
#79  
 Terphenyl-d14  
 Concen: 4.289 ng  
 RT: 12.83 min Scan# 1826  
 Delta R.T. -0.01 min  
 Lab File: BF117602.D  
 Acq: 29 Oct 2019 20:18

Instrument :  
 BNA\_F  
 ClientSampled :

Tot Ion:244 Resp: 19001  
 Ion Ratio Lower Upper  
 244 100  
 212 7.5 5.8 8.6  
 122 11.5 11.8 17.8#

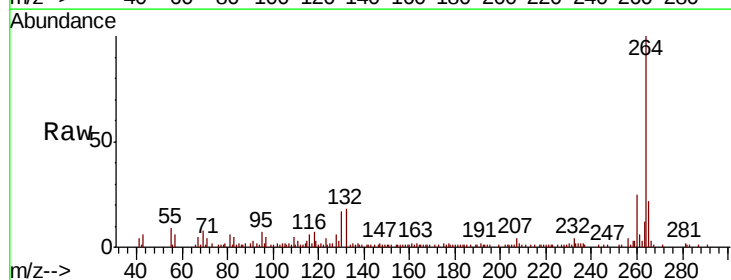


Abundance Ion 244.00 (243.70 to 244.70): E  
 Ion 212.00 (211.70 to 212.70): E  
 Ion 122.00 (121.70 to 122.70): E



#87  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 15.33 min Scan# 2252  
 Delta R.T. 0.01 min  
 Lab File: BF117602.D  
 Acq: 29 Oct 2019 20:18

Tgt Ion:264 Resp: 56516  
 Ion Ratio Lower Upper  
 264 100  
 260 25.2 18.4 27.6  
 265 22.4 16.1 24.1



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

