

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121819\  
 Data File : BF118265.D  
 Acq On : 18 Dec 2019 18:10  
 Operator : JU  
 Sample : K6330-05  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Dec 19 03:09:43 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF120619.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Dec 06 17:34:43 2019  
 Response via : Initial Calibration

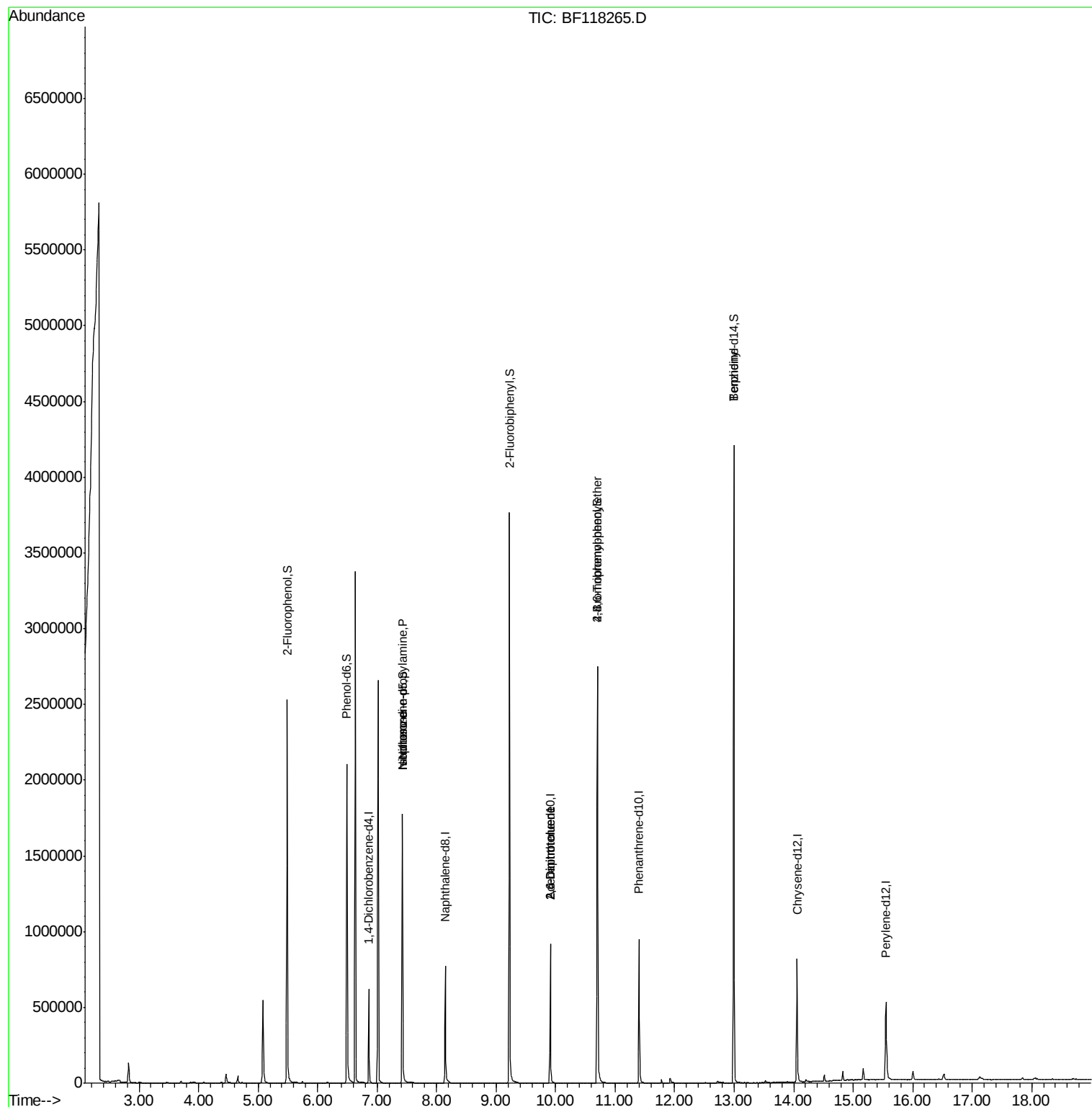
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.86  | 152  | 99022    | 20.00     | ng     | 0.00     |
| 21) Naphthalene-d8             | 8.15  | 136  | 381901   | 20.00     | ng     | -0.01    |
| 39) Acenaphthene-d10           | 9.91  | 164  | 204232   | 20.00     | ng     | -0.01    |
| 64) Phenanthrene-d10           | 11.40 | 188  | 402449   | 20.00     | ng     | 0.00     |
| 76) Chrysene-d12               | 14.06 | 240  | 292550   | 20.00     | ng     | -0.01    |
| 87) Perylene-d12               | 15.55 | 264  | 267599   | 20.00     | ng     | 0.00     |
| System Monitoring Compounds    |       |      |          |           |        |          |
| 5) 2-Fluorophenol              | 5.49  | 112  | 723476   | 127.97    | ng     | 0.00     |
| 7) Phenol-d6                   | 6.49  | 99   | 804937   | 117.71    | ng     | 0.00     |
| 23) Nitrobenzene-d5            | 7.43  | 82   | 601710   | 88.64     | ng     | -0.01    |
| 42) 2,4,6-Tribromophenol       | 10.70 | 330  | 358468   | 144.48    | ng     | -0.01    |
| 45) 2-Fluorobiphenyl           | 9.23  | 172  | 1238716  | 92.29     | ng     | -0.01    |
| 79) Terphenyl-d14              | 13.00 | 244  | 1594620  | 93.73     | ng     | 0.00     |
| Target Compounds               |       |      |          |           |        |          |
| 9) Benzaldehyde                | 6.49  | 77   | 1105     | Below Cal | Qvalue | # 1      |
| 19) n-Nitroso-di-n-propylamine | 7.43  | 70   | 81510    | 19.616 ng | #      | 76       |
| 25) Isophorone                 | 7.43  | 82   | 601702   | 52.286 ng | #      | 62       |
| 51) 2,6-Dinitrotoluene         | 9.91  | 165  | 25079    | 7.645 ng  | #      | 27       |
| 57) 2,4-Dinitrotoluene         | 9.91  | 165  | 25079    | 5.728 ng  | #      | 25       |
| 67) 4-Bromophenyl-phenylether  | 10.70 | 248  | 21725    | 4.729 ng  | #      | 1        |
| 77) Benizidine                 | 13.00 | 184  | 21673    | 2.814 ng  | #      | 95       |

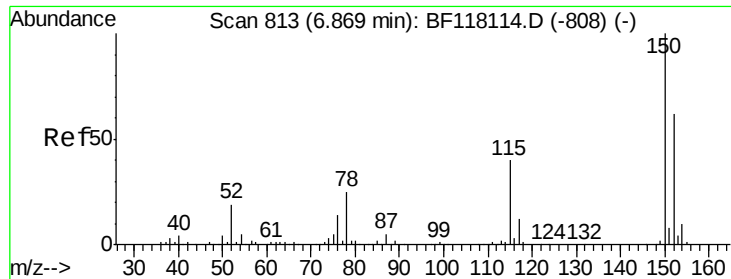
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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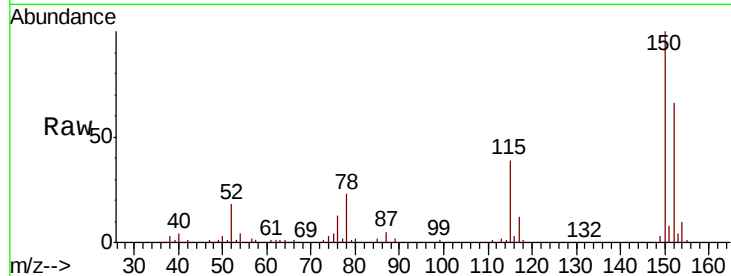


#1

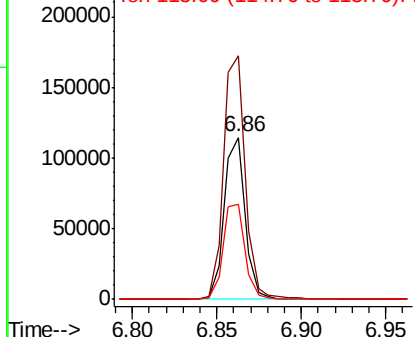
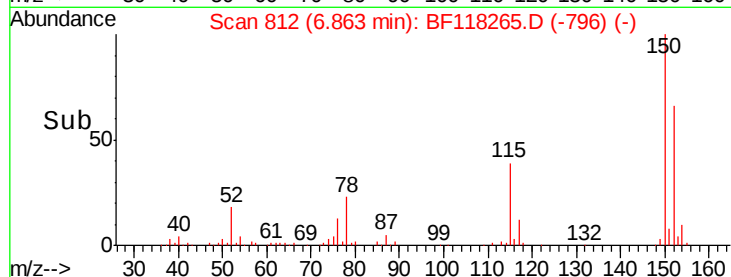
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.86 min Scan# 812  
Delta R.T. -0.01 min  
Lab File: BF118265.D  
Acq: 18 Dec 2019 18:10

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 99022  
Ion Ratio Lower Upper  
152 100  
150 150.6 128.3 192.5  
115 58.7 51.1 76.7



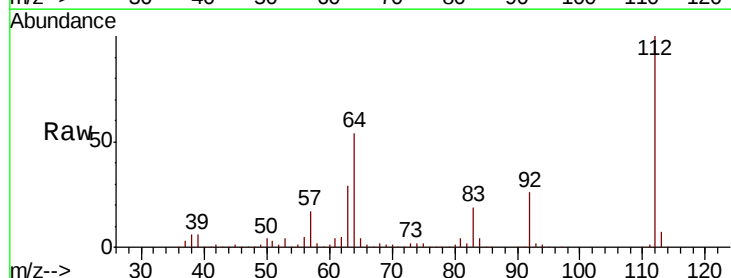
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



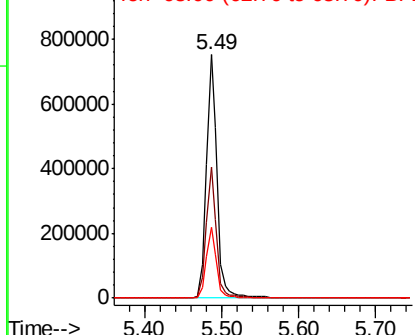
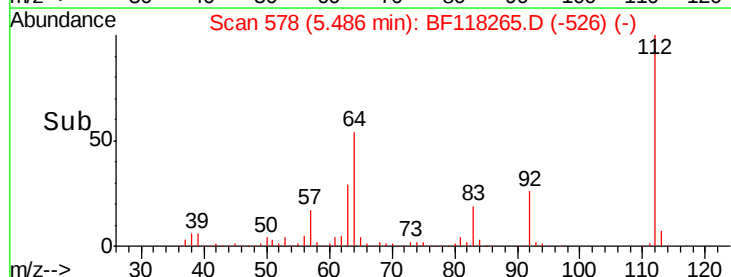
#5

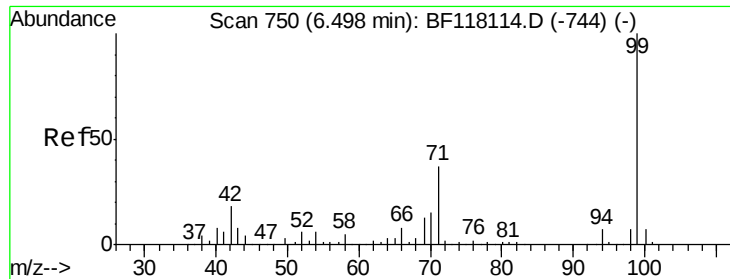
2-Fluorophenol  
Concen: 127.966 ng  
RT: 5.49 min Scan# 578  
Delta R.T. 0.01 min  
Lab File: BF118265.D  
Acq: 18 Dec 2019 18:10

Tgt Ion:112 Resp: 723476  
Ion Ratio Lower Upper  
112 100  
64 53.8 41.3 61.9  
63 29.1 22.4 33.6



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: 117.710 ng

RT: 6.49 min Scan# 749

Delta R.T. -0.01 min

Lab File: BF118265.D

Acq: 18 Dec 2019 18:10

Instrument :

BNA\_F

ClientSampled :

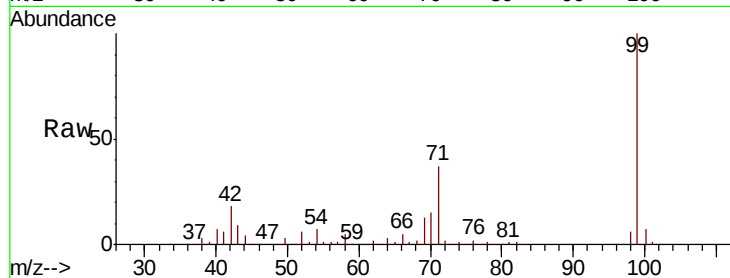
Tot Ion: 99 Resp: 804937

Ion Ratio Lower Upper

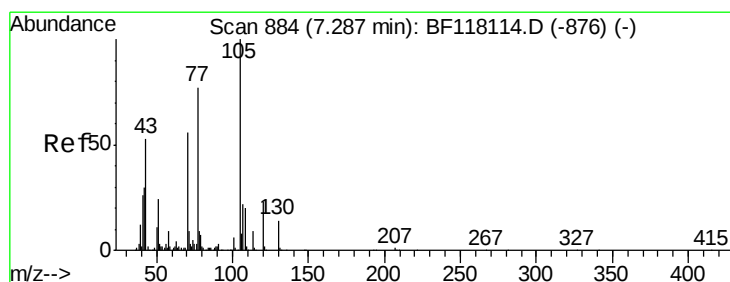
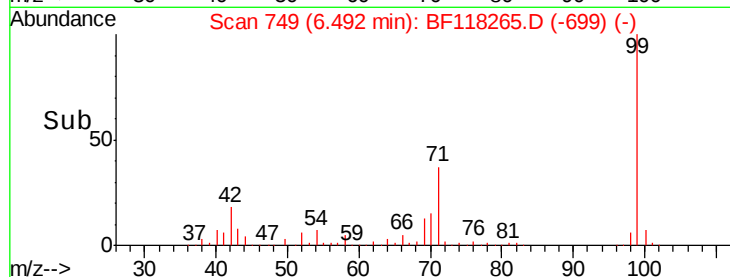
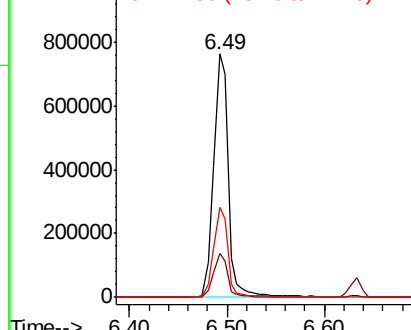
99 100

42 17.9 14.1 21.1

71 37.0 29.7 44.5



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: 19.616 ng

RT: 7.43 min Scan# 908

Delta R.T. 0.14 min

Lab File: BF118265.D

Acq: 18 Dec 2019 18:10

Tgt Ion: 70 Resp: 81510

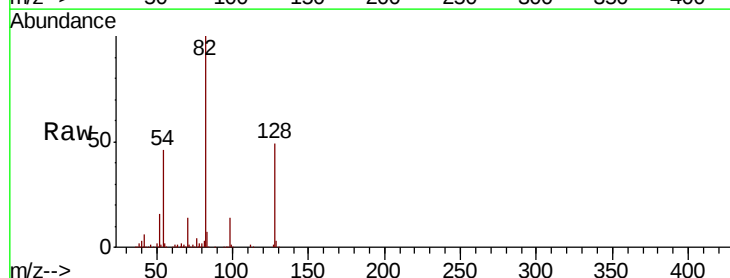
Ion Ratio Lower Upper

70 100

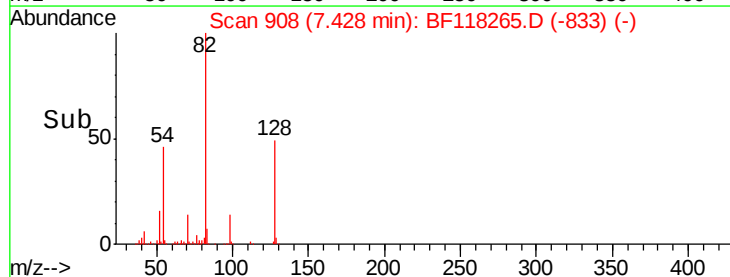
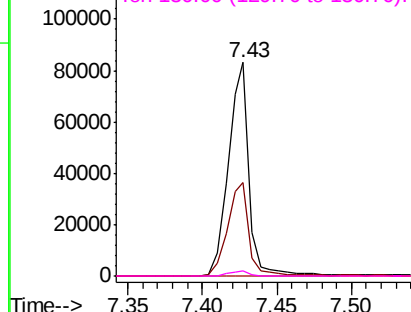
42 43.5 43.2 64.8

101 0.0 8.1 12.1#

130 2.6 19.8 29.8#



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): E  
Ion 130.00 (129.70 to 130.70): E





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.15 min Scan# 1030

Delta R.T. -0.01 min

Lab File: BF118265.D

Acq: 18 Dec 2019 18:10

Instrument :

BNA\_F

ClientSampleId :

Tot Ion:136 Resp: 381901

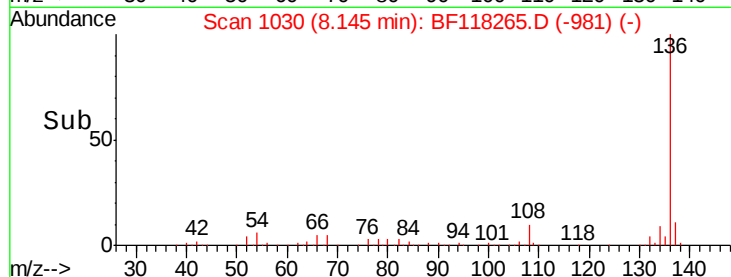
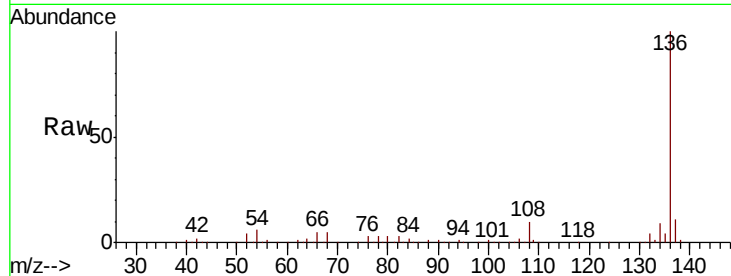
Ion Ratio Lower Upper

136 100

137 11.0 9.0 13.6

54 6.3 5.0 7.6

68 4.7 3.8 5.8

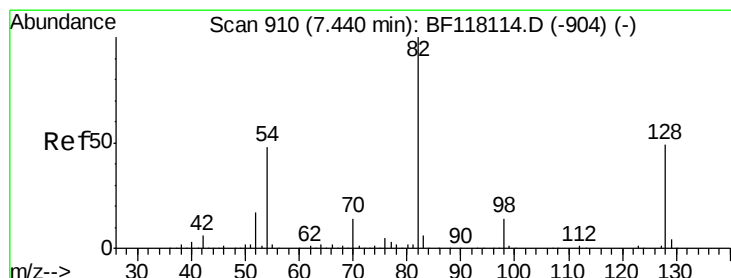
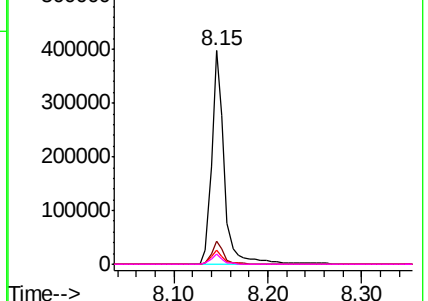


Abundance Ion 136.00 (135.70 to 136.70): E

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: 88.638 ng

RT: 7.43 min Scan# 908

Delta R.T. -0.01 min

Lab File: BF118265.D

Acq: 18 Dec 2019 18:10

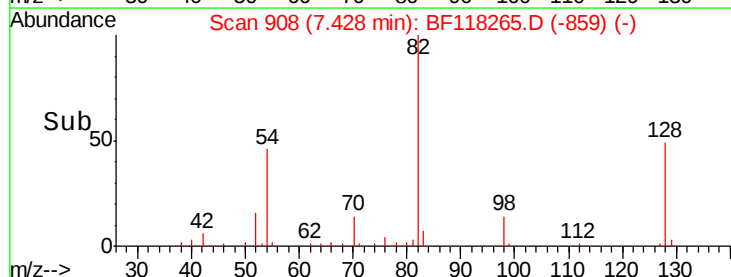
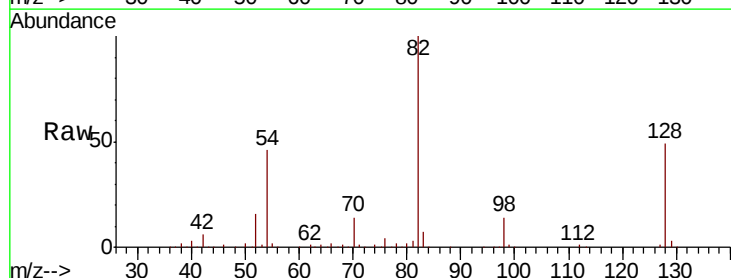
Tgt Ion: 82 Resp: 601710

Ion Ratio Lower Upper

82 100

128 49.1 39.1 58.7

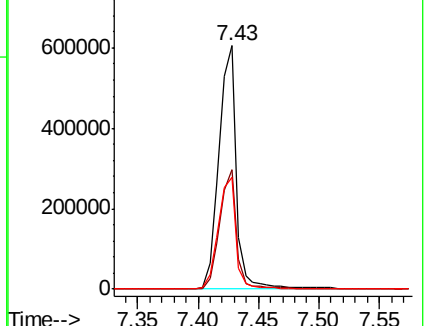
54 46.2 38.2 57.2

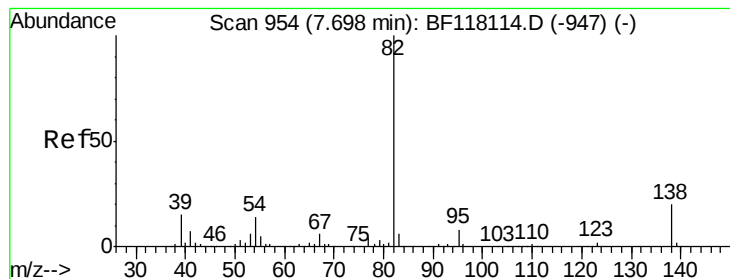


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 52.286 ng

RT: 7.43 min Scan# 908

Delta R.T. -0.27 min

Lab File: BF118265.D

Acq: 18 Dec 2019 18:10

Instrument :

BNA\_F

ClientSampleId :

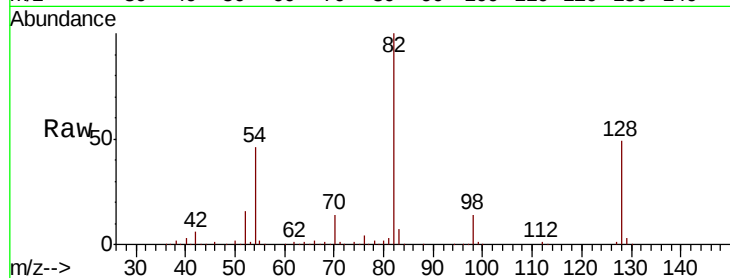
Tot Ion: 82 Resp: 601702

Ion Ratio Lower Upper

82 100

95 0.0 6.3 9.5#

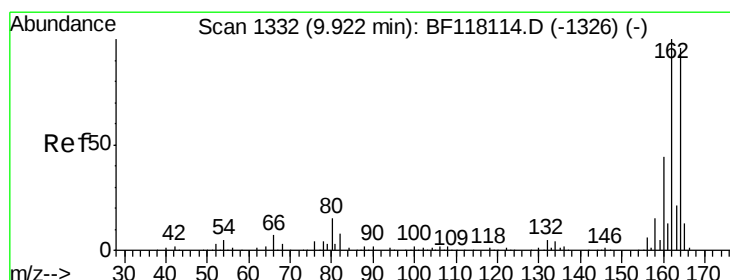
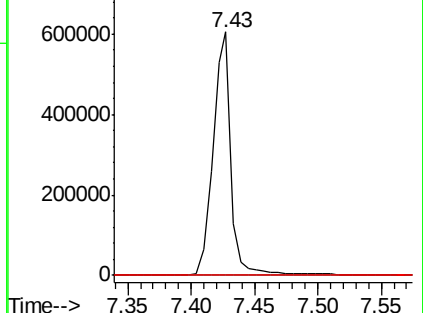
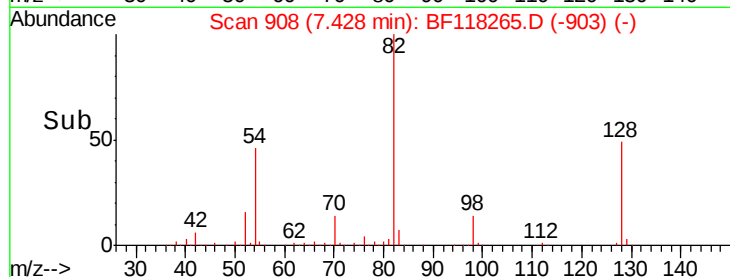
138 0.0 16.3 24.5#



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: 9.91 min Scan# 1330

Delta R.T. -0.01 min

Lab File: BF118265.D

Acq: 18 Dec 2019 18:10

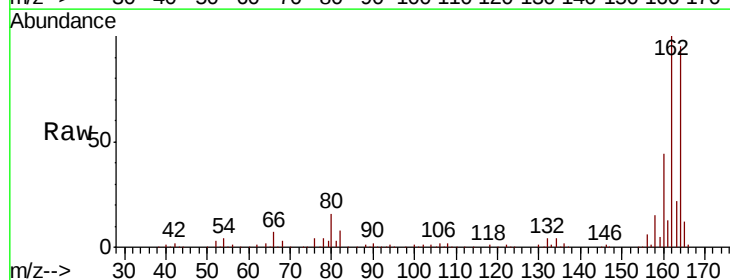
Tgt Ion: 164 Resp: 204232

Ion Ratio Lower Upper

164 100

162 105.0 83.4 125.0

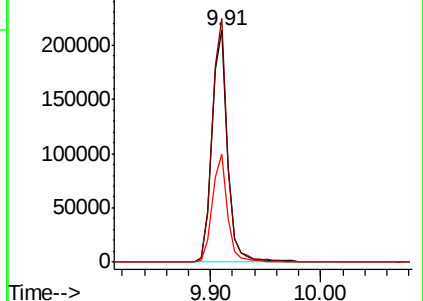
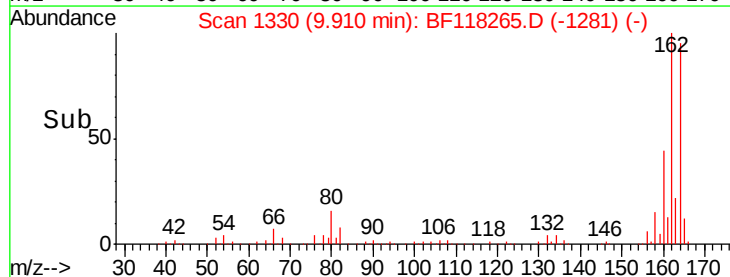
160 46.3 36.6 54.8

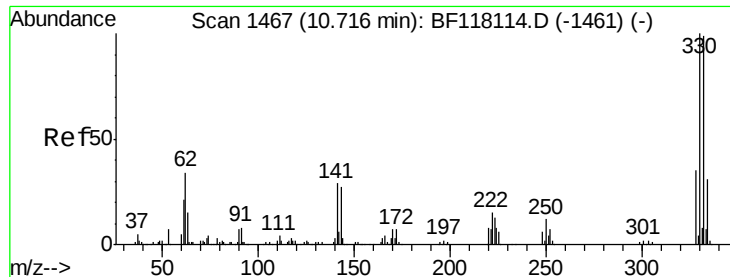


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

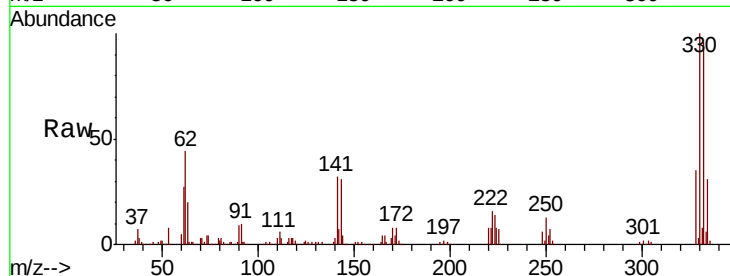




#42  
 2,4,6-Tribromophenol  
 Concen: 144.483 ng  
 RT: 10.70 min Scan# 1465  
 Delta R.T. -0.01 min  
 Lab File: BF118265.D  
 Acq: 18 Dec 2019 18:10

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.5  | 78.1  | 117.1 |
| 141     | 32.3  | 26.9  | 40.3  |

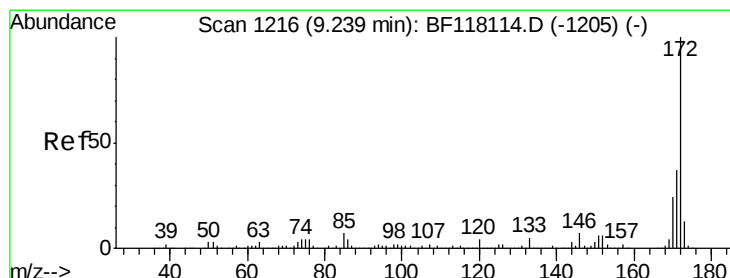
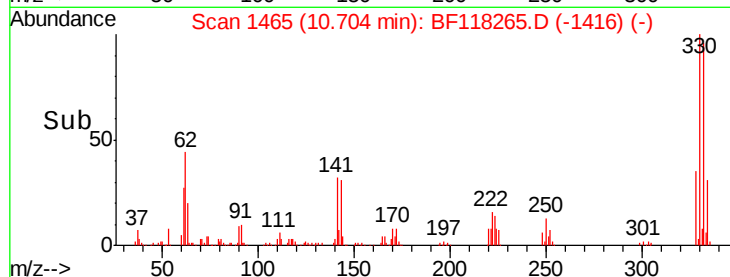
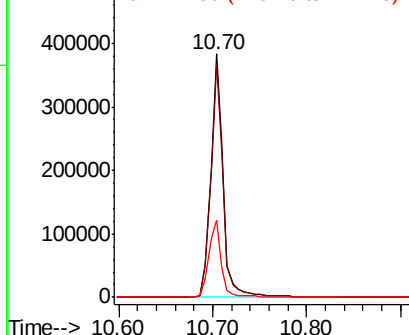


Abundance

Ion 329.80 (329.50 to 330.50): E

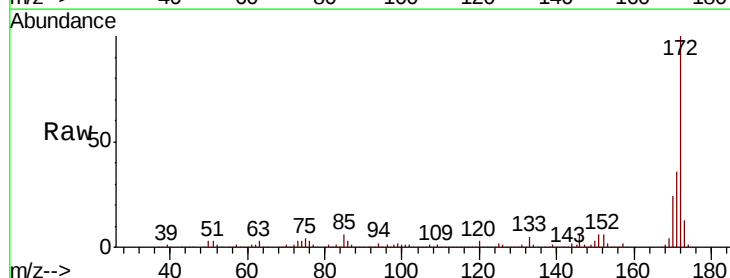
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45  
 2-Fluorobiphenyl  
 Concen: 92.291 ng  
 RT: 9.23 min Scan# 1214  
 Delta R.T. -0.01 min  
 Lab File: BF118265.D  
 Acq: 18 Dec 2019 18:10

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.2  | 29.2  | 43.8  |
| 170     | 23.7  | 19.4  | 29.2  |

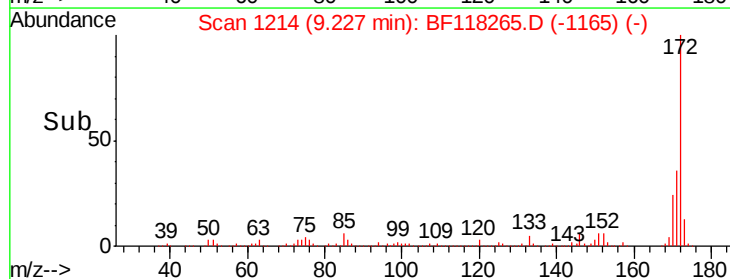
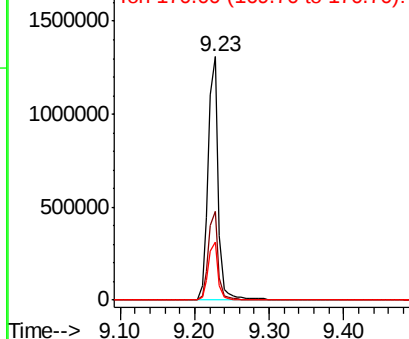


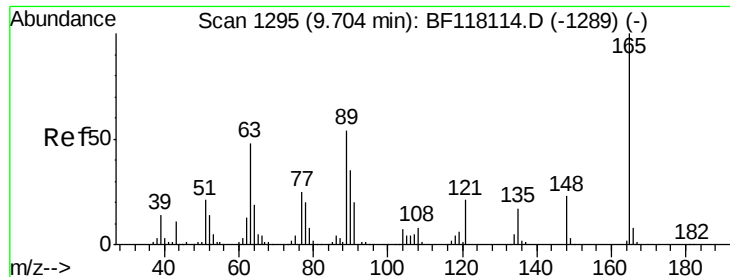
Abundance

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: 7.645 ng

RT: 9.91 min Scan# 1330

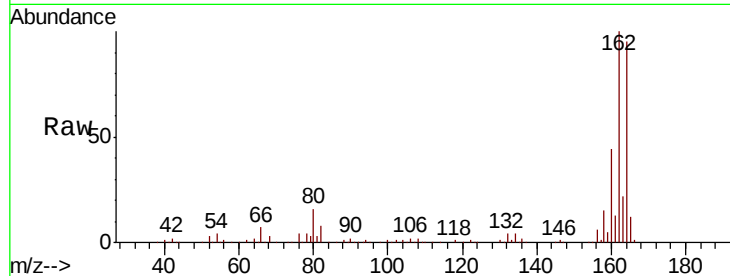
Delta R.T. 0.21 min

Lab File: BF118265.D

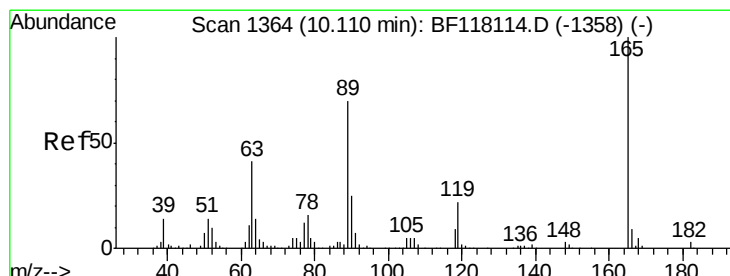
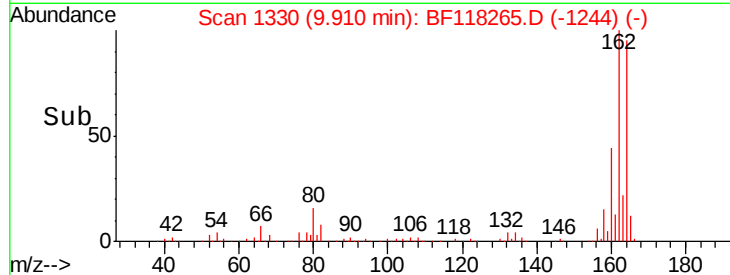
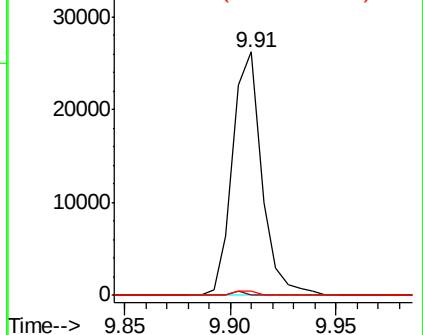
Acq: 18 Dec 2019 18:10

Instrument :  
BNA\_F  
ClientSampleId :

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 165   | Resp: | 25079 |
| Ion Ratio | Lower | Upper |       |
| 165       | 100   |       |       |
| 63        | 0.0   | 41.4  | 62.0# |
| 89        | 1.6   | 42.9  | 64.3# |



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: 5.728 ng

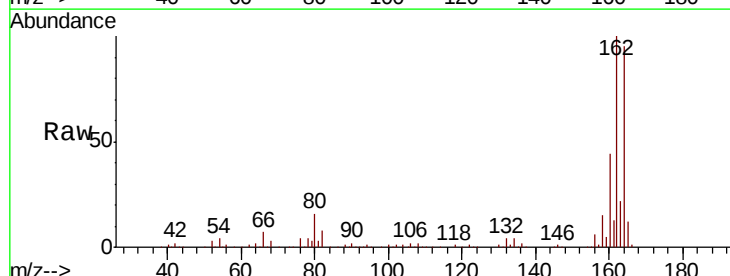
RT: 9.91 min Scan# 1330

Delta R.T. -0.20 min

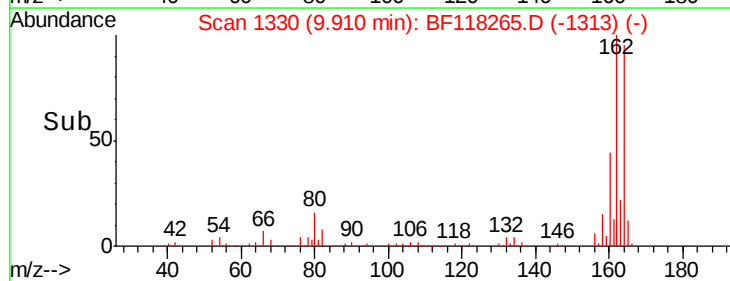
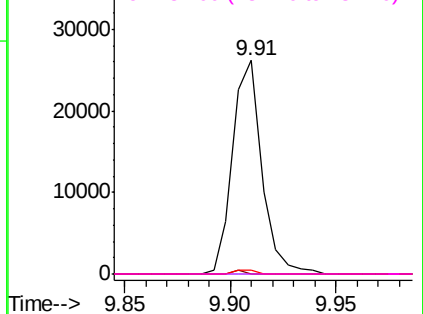
Lab File: BF118265.D

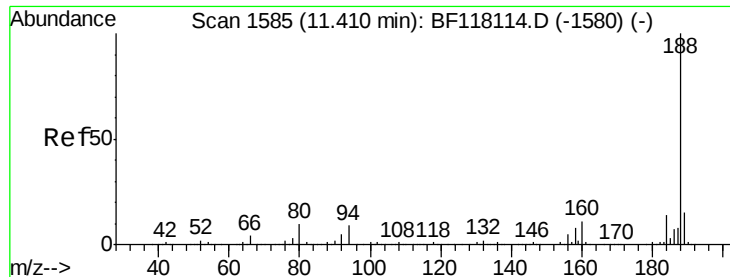
Acq: 18 Dec 2019 18:10

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 165   | Resp: | 25079 |
| Ion Ratio | Lower | Upper |       |
| 165       | 100   |       |       |
| 63        | 0.0   | 32.6  | 49.0# |
| 89        | 1.6   | 56.1  | 84.1# |
| 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

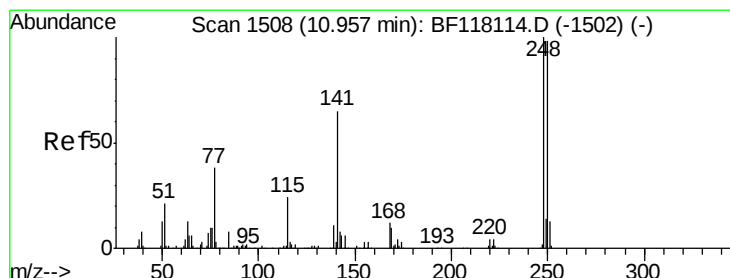
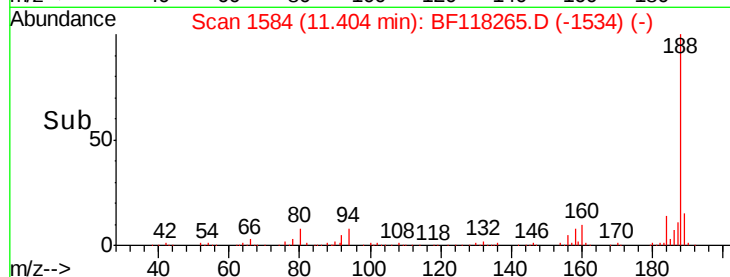
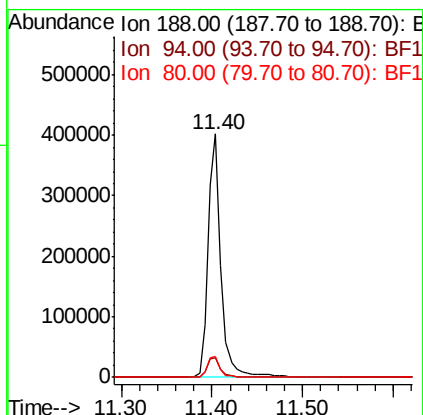
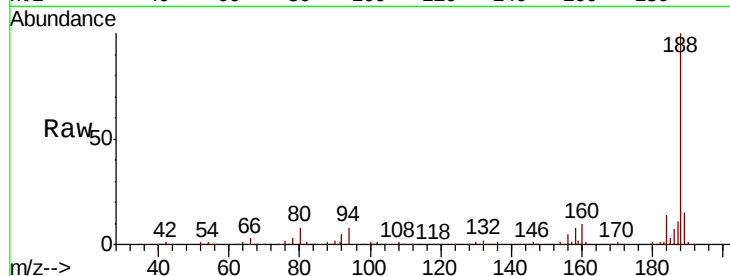




#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.40 min Scan# 1584  
 Delta R.T. -0.01 min  
 Lab File: BF118265.D  
 Acq: 18 Dec 2019 18:10

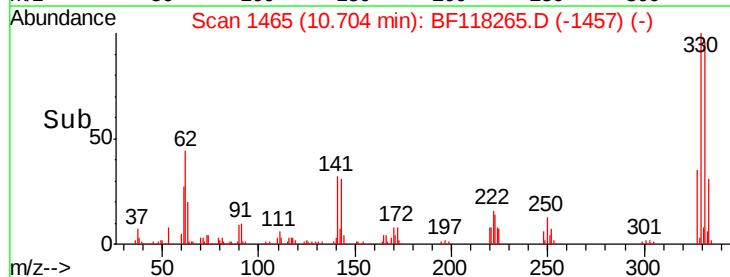
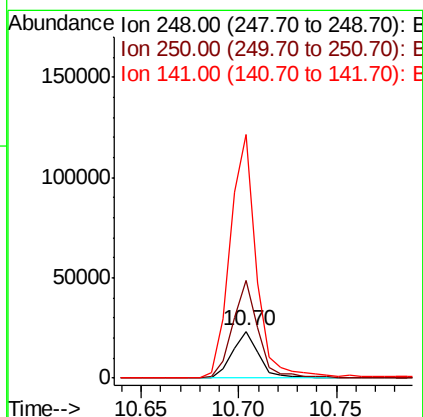
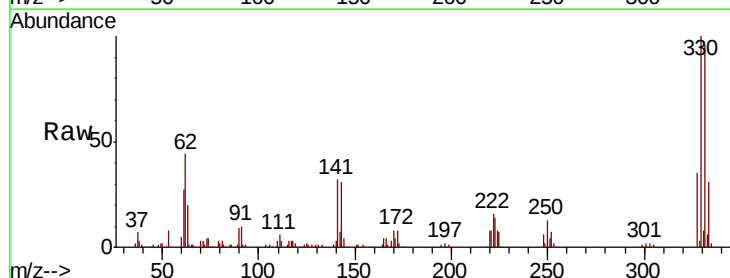
Instrument :  
 BNA\_F  
 ClientSampled :

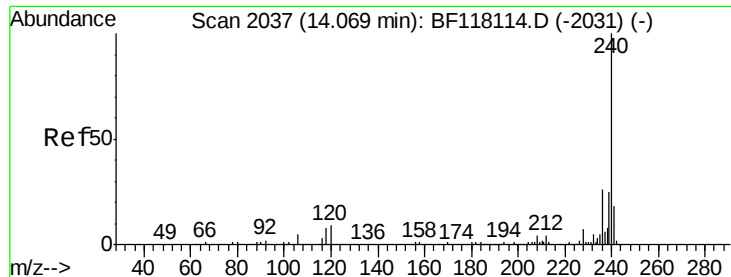
Tot Ion:188 Resp: 402449  
 Ion Ratio Lower Upper  
 188 100  
 94 7.9 7.1 10.7  
 80 8.4 7.9 11.9



#67  
 4-Bromophenyl-phenylether  
 Concen: 4.729 ng  
 RT: 10.70 min Scan# 1465  
 Delta R.T. -0.25 min  
 Lab File: BF118265.D  
 Acq: 18 Dec 2019 18:10

Tgt Ion:248 Resp: 21725  
 Ion Ratio Lower Upper  
 248 100  
 250 210.4 78.3 117.5#  
 141 522.8 52.2 78.4#

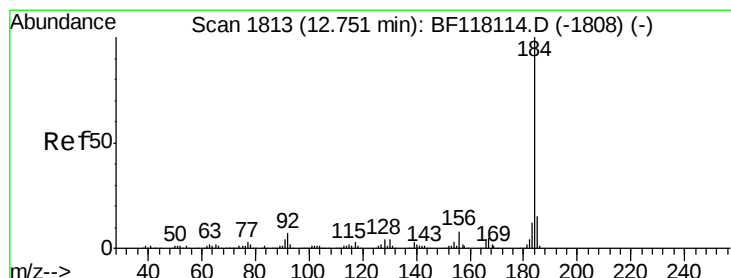
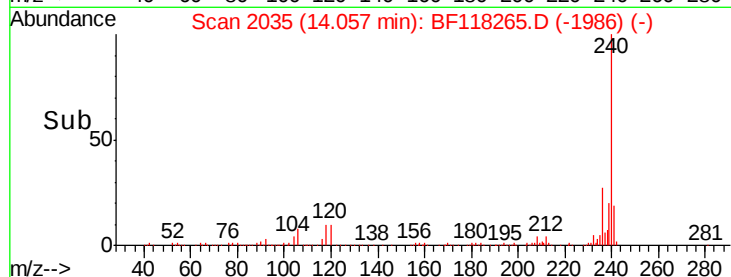
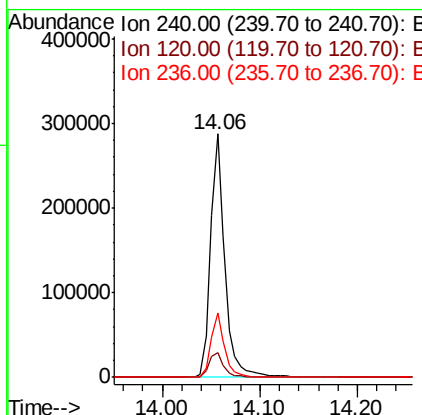
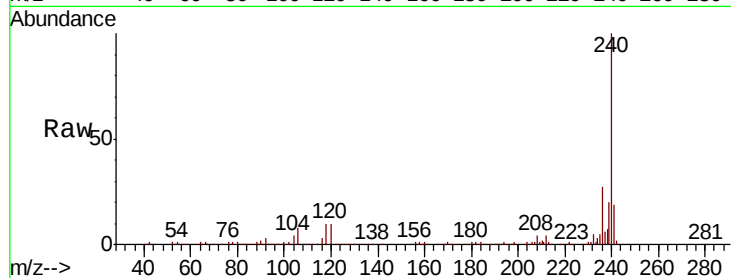




#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 14.06 min Scan# 2035  
 Delta R.T. -0.01 min  
 Lab File: BF118265.D  
 Acq: 18 Dec 2019 18:10

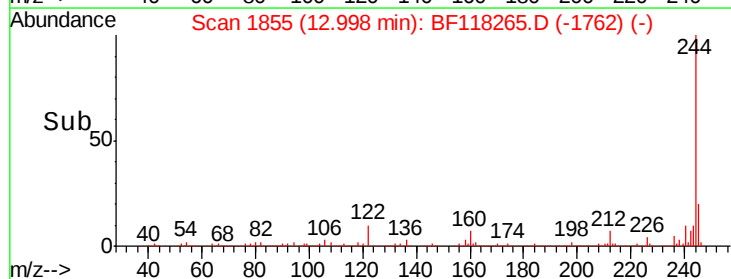
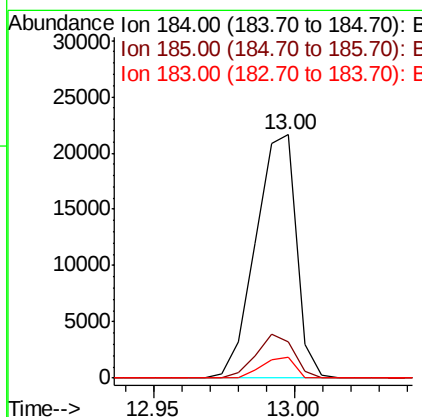
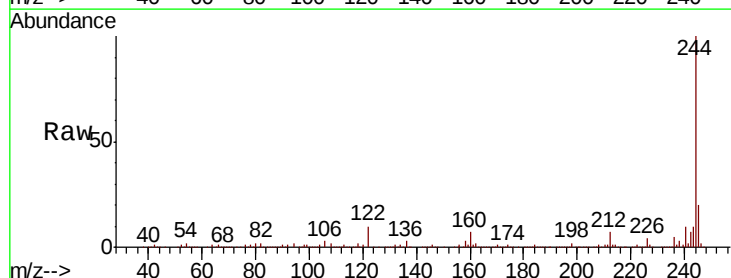
Instrument :  
 BNA\_F  
 ClientSampleId :

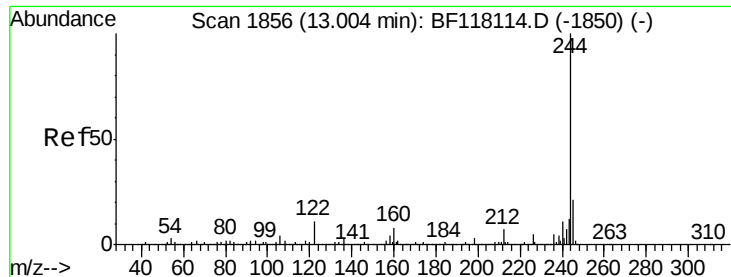
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 10.2  | 7.1   | 10.7  |
| 236     | 26.5  | 21.0  | 31.6  |



#77  
 Benzidine  
 Concen: 2.814 ng  
 RT: 13.00 min Scan# 1855  
 Delta R.T. 0.25 min  
 Lab File: BF118265.D  
 Acq: 18 Dec 2019 18:10

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 184     | 100   |       |       |
| 185     | 14.9  | 12.3  | 18.5  |
| 183     | 8.4   | 9.9   | 14.9# |





#79

Terphenyl-d14

Concen: 93.733 ng

RT: 13.00 min Scan# 1856

Delta R.T. -0.01 min

Lab File: BF118265.D

Acq: 18 Dec 2019 18:10

Instrument :

BNA\_F

ClientSampleId :

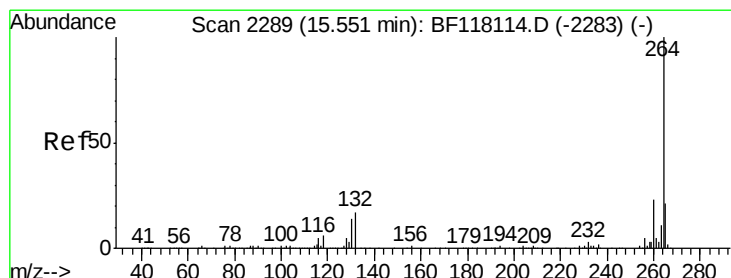
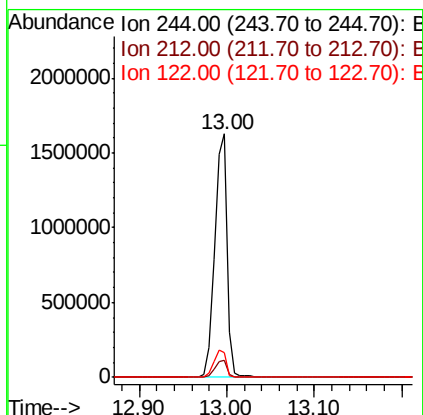
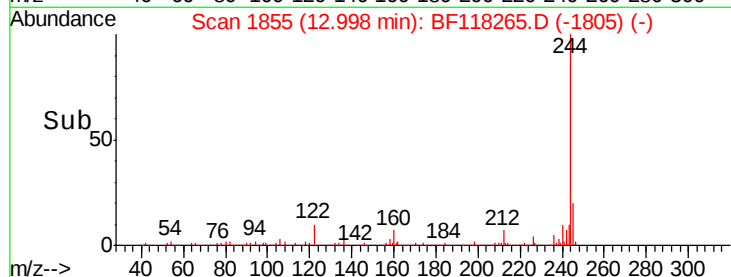
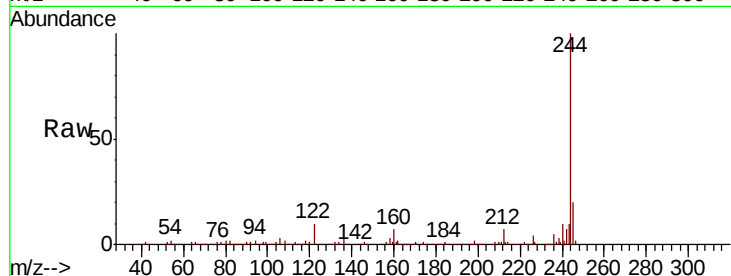
Tot Ion:244 Resp: 1594620

Ion Ratio Lower Upper

244 100

212 6.8 5.9 8.9

122 9.9 9.0 13.6



#87

Perylene-d12

Concen: 20.000 ng

RT: 15.55 min Scan# 2289

Delta R.T. -0.00 min

Lab File: BF118265.D

Acq: 18 Dec 2019 18:10

Tgt Ion:264 Resp: 267599

Ion Ratio Lower Upper

264 100

260 22.4 18.6 28.0

265 20.5 16.8 25.2

