

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091819\  
 Data File : BF117157.D  
 Acq On : 18 Sep 2019 20:54  
 Operator : HP/JU  
 Sample : K4942-04  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Sep 19 05:15:51 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091319.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Sep 13 16:23:17 2019  
 Response via : Initial Calibration

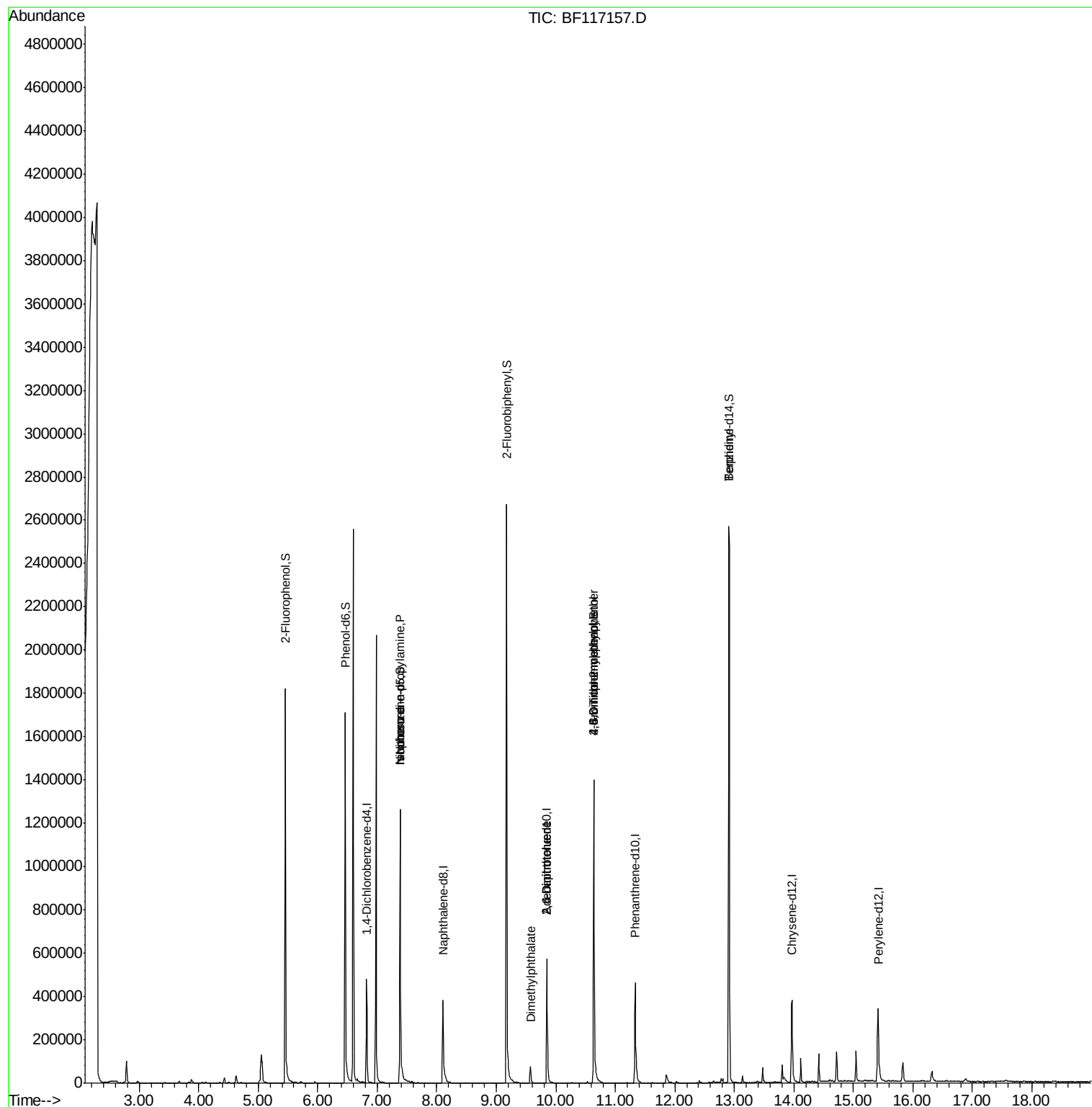
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.82  | 152  | 73612    | 20.00     | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.10  | 136  | 282337   | 20.00     | ng    | 0.00     |
| 39) Acenaphthene-d10           | 9.85  | 164  | 149106   | 20.00     | ng    | 0.00     |
| 64) Phenanthrene-d10           | 11.33 | 188  | 245581   | 20.00     | ng    | 0.00     |
| 76) Chrysene-d12               | 13.97 | 240  | 178381   | 20.00     | ng    | 0.00     |
| 87) Perylene-d12               | 15.42 | 264  | 158836   | 20.00     | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |           |       |          |
| 5) 2-Fluorophenol              | 5.46  | 112  | 570727   | 121.05    | ng    | 0.02     |
| 7) Phenol-d6                   | 6.46  | 99   | 678891   | 111.41    | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.39  | 82   | 552234   | 102.77    | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol       | 10.64 | 330  | 195515   | 156.89    | ng    | 0.00     |
| 45) 2-Fluorobiphenyl           | 9.17  | 172  | 952152   | 99.85     | ng    | 0.00     |
| 79) Terphenyl-d14              | 12.92 | 244  | 936524   | 98.14     | ng    | 0.00     |
| Target Compounds               |       |      |          |           |       |          |
| 9) Benzaldehyde                | 6.46  | 77   | 1020     | Below Cal |       | Qvalue   |
| 19) n-Nitroso-di-n-propylamine | 7.39  | 70   | 71418    | 19.248 ng | #     | 1        |
| 25) Isophorone                 | 7.39  | 82   | 552232   | 58.043 ng | #     | 80       |
| 50) Dimethylphthalate          | 9.57  | 163  | 51175    | 4.847 ng  | #     | 66       |
| 51) 2,6-Dinitrotoluene         | 9.85  | 165  | 19366    | 9.007 ng  | #     | 99       |
| 57) 2,4-Dinitrotoluene         | 9.85  | 165  | 19366    | 6.938 ng  | #     | 24       |
| 65) 4,6-Dinitro-2-methylphenol | 10.64 | 198  | 159      | 7.024 ng  | #     | 18       |
| 67) 4-Bromophenyl-phenylether  | 10.64 | 248  | 12647    | 5.043 ng  | #     | 1        |
| 77) Benzidine                  | 12.91 | 184  | 13652    | 2.376 ng  |       | 95       |

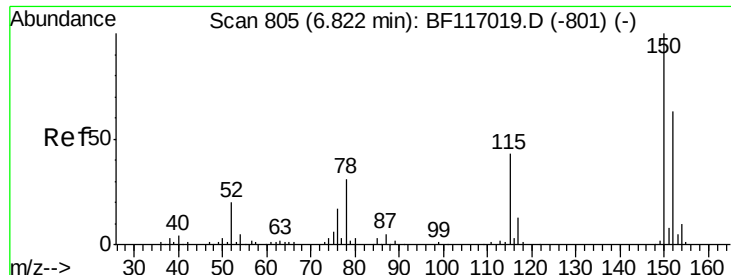
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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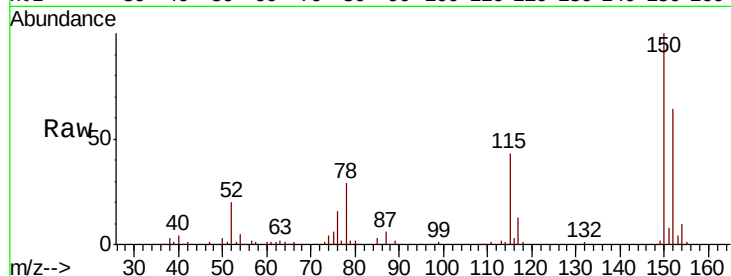


#1

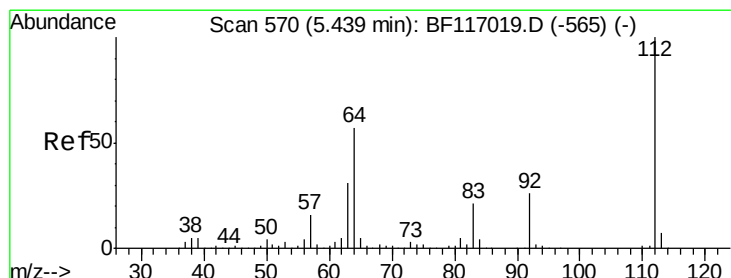
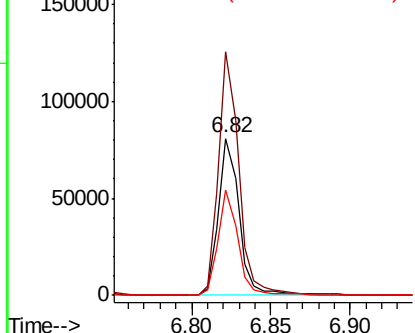
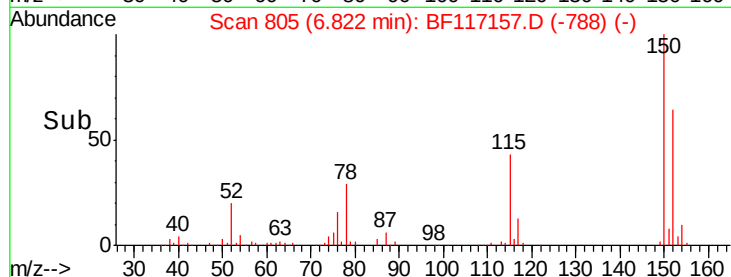
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.82 min Scan# 805  
Delta R.T. -0.00 min  
Lab File: BF117157.D  
Acq: 18 Sep 2019 20:54

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 73612  
Ion Ratio Lower Upper  
152 100  
150 155.5 127.5 191.3  
115 67.1 55.0 82.4



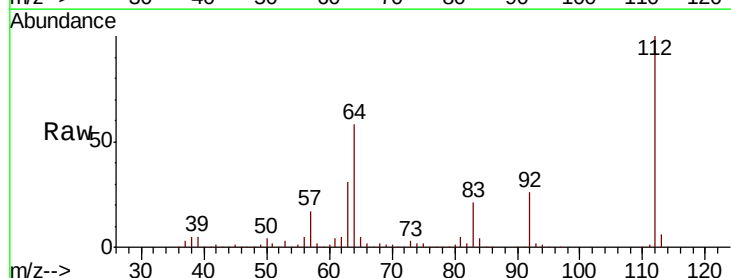
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



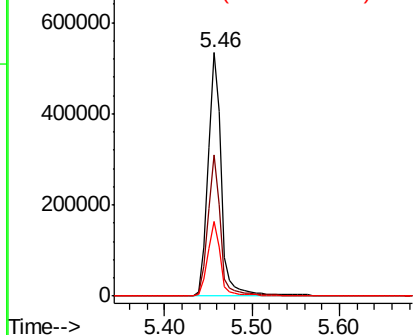
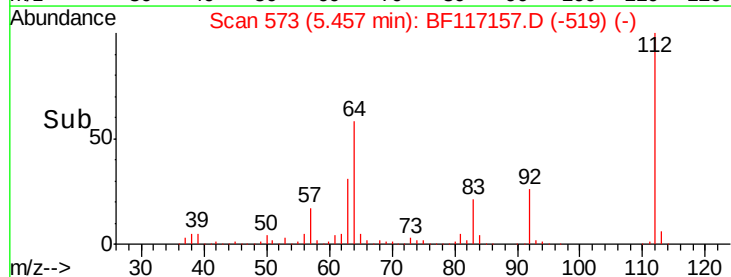
#5

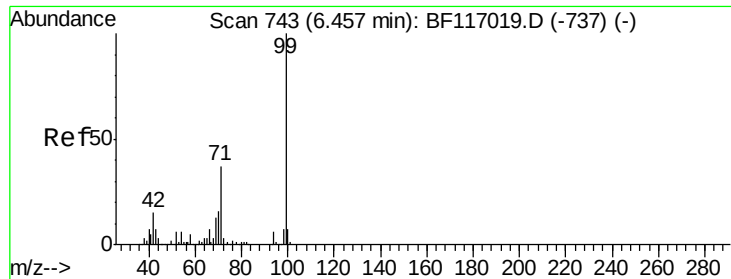
2-Fluorophenol  
Concen: 121.046 ng  
RT: 5.46 min Scan# 573  
Delta R.T. 0.02 min  
Lab File: BF117157.D  
Acq: 18 Sep 2019 20:54

Tgt Ion:112 Resp: 570727  
Ion Ratio Lower Upper  
112 100  
64 58.2 45.7 68.5  
63 30.9 24.9 37.3



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: 111.414 ng

RT: 6.46 min Scan# 744

Delta R.T. 0.01 min

Lab File: BF117157.D

Acq: 18 Sep 2019 20:54

Instrument :

BNA\_F

ClientSampleId :

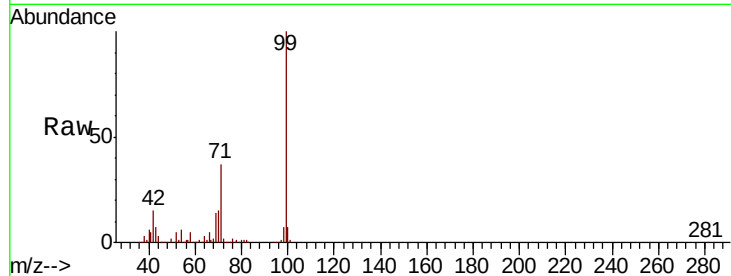
Tot Ion: 99 Resp: 678891

Ion Ratio Lower Upper

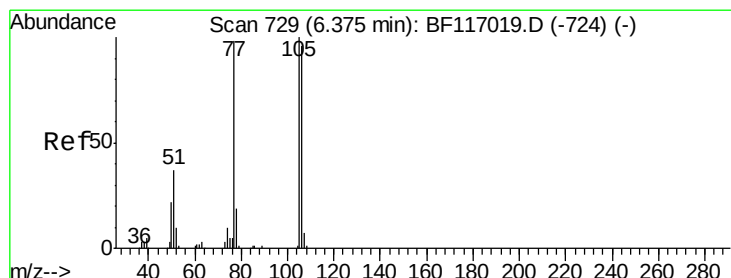
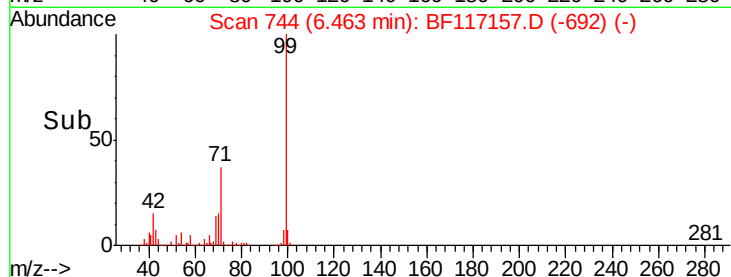
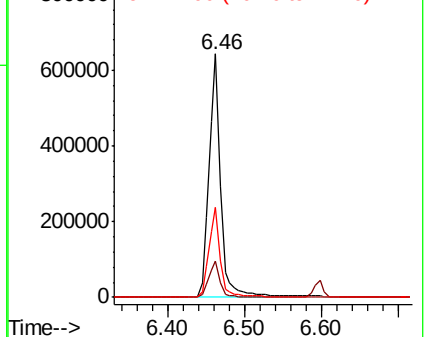
99 100

42 14.9 12.2 18.2

71 37.0 29.8 44.8



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



#9

Benzaldehyde

Concen: Below Cal

RT: 6.46 min Scan# 744

Delta R.T. 0.09 min

Lab File: BF117157.D

Acq: 18 Sep 2019 20:54

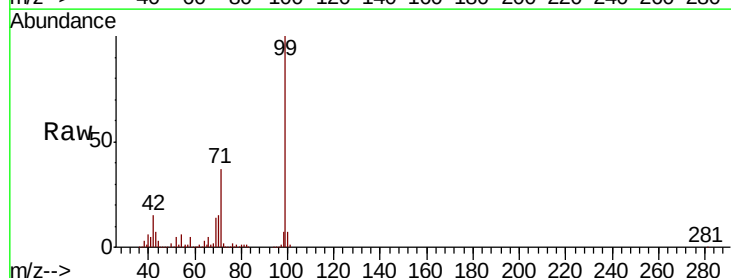
Tgt Ion: 77 Resp: 1020

Ion Ratio Lower Upper

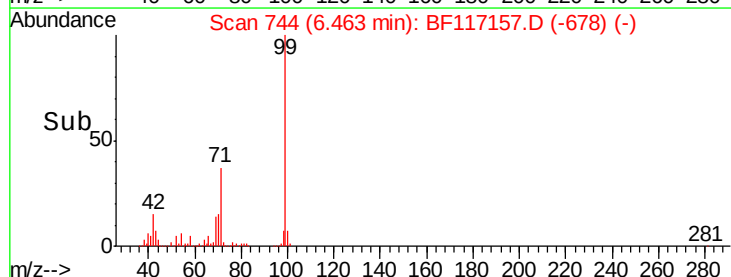
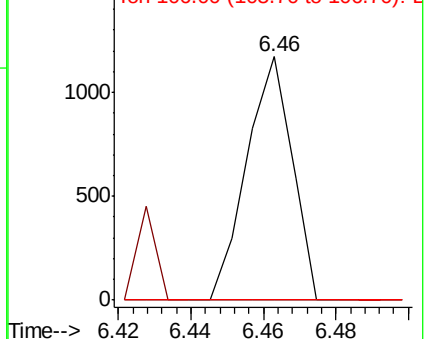
77 100

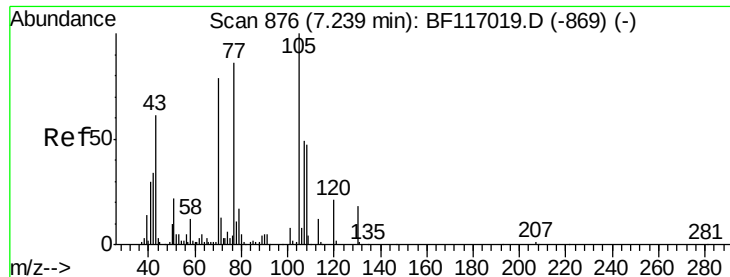
105 0.0 81.8 121.8#

106 0.0 77.3 117.3#



Abundance Ion 77.00 (76.70 to 77.70): BF1  
Ion 105.00 (104.70 to 105.70): E  
Ion 106.00 (105.70 to 106.70): E





#19

n-Nitroso-di-n-propylamine

Concen: 19.248 ng

RT: 7.39 min Scan# 901

Delta R.T. 0.15 min

Lab File: BF117157.D

Acq: 18 Sep 2019 20:54

Instrument :

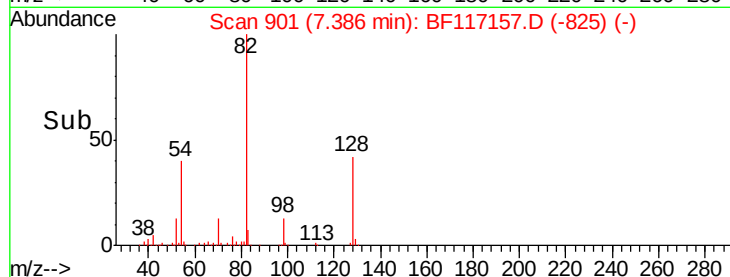
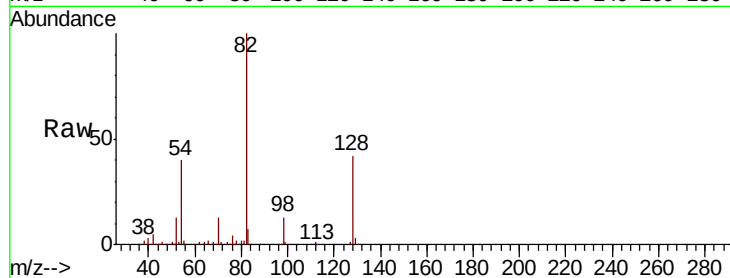
BNA\_F

ClientSampled :

Tot Ion: 70 Resp: 71418

Ion Ratio Lower Upper

|     |      |      |       |
|-----|------|------|-------|
| 70  | 100  |      |       |
| 42  | 37.6 | 34.0 | 51.0  |
| 101 | 0.0  | 7.8  | 11.6# |
| 130 | 2.1  | 17.8 | 26.8# |

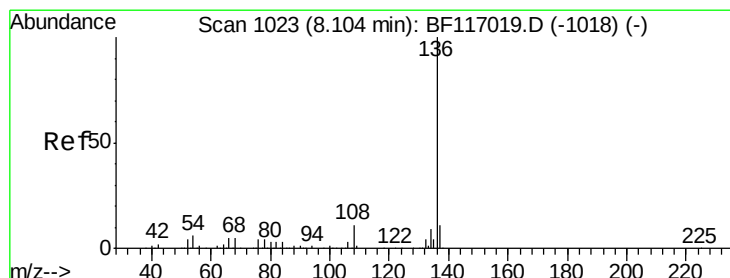
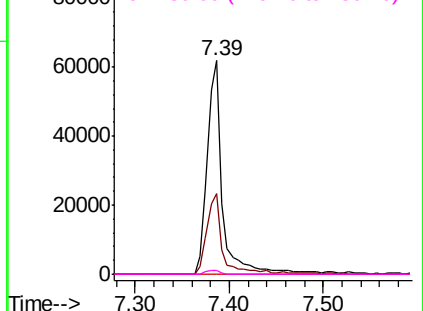


Abundance Ion 70.00 (69.70 to 70.70): BF1

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: 8.10 min Scan# 1023

Delta R.T. -0.00 min

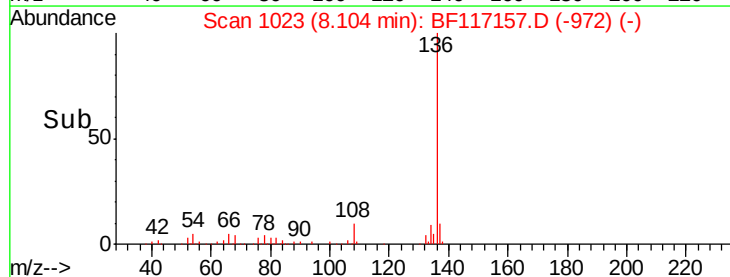
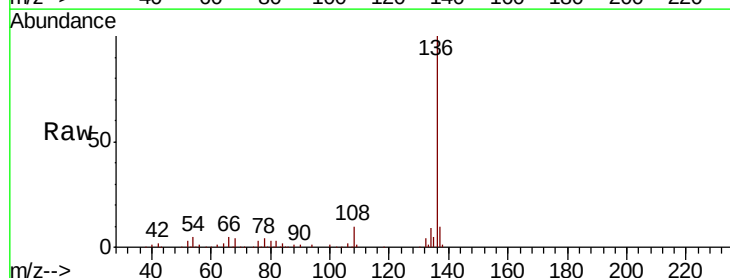
Lab File: BF117157.D

Acq: 18 Sep 2019 20:54

Tgt Ion: 136 Resp: 282337

Ion Ratio Lower Upper

|     |      |     |      |
|-----|------|-----|------|
| 136 | 100  |     |      |
| 137 | 10.4 | 9.0 | 13.4 |
| 54  | 5.0  | 4.5 | 6.7  |
| 68  | 4.5  | 4.0 | 6.0  |

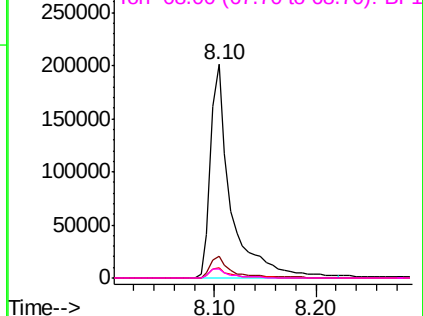


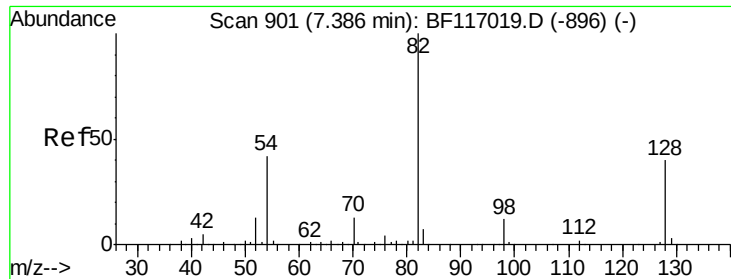
Abundance Ion 136.00 (135.70 to 136.70): E

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

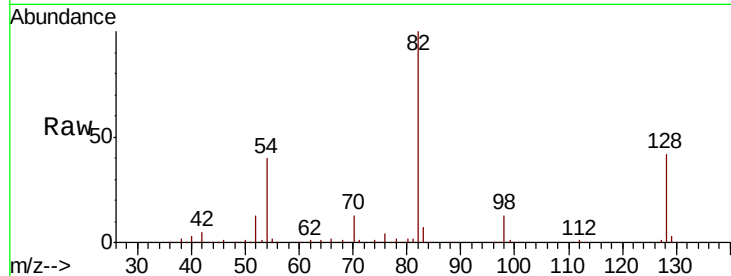




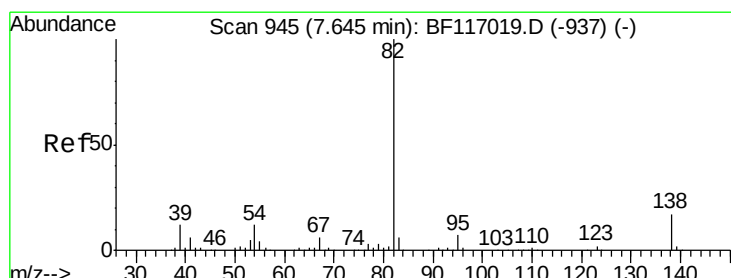
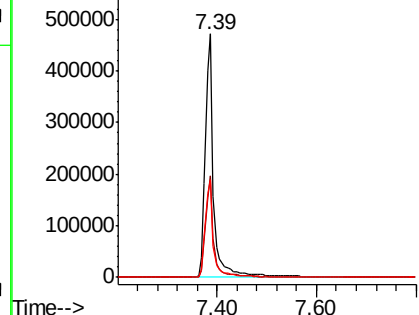
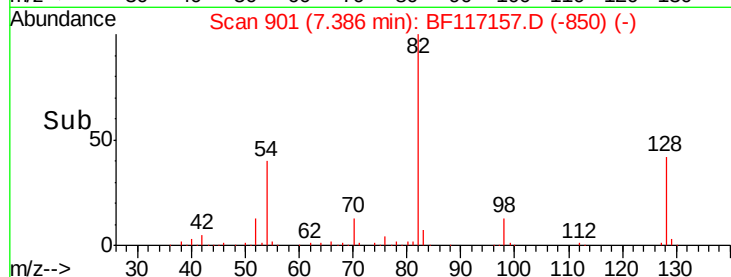
#23  
 Nitrobenzene-d5  
 Concen: 102.770 ng  
 RT: 7.39 min Scan# 901  
 Delta R.T. -0.00 min  
 Lab File: BF117157.D  
 Acq: 18 Sep 2019 20:54

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 41.9  | 32.3  | 48.5  |
| 54      | 39.9  | 33.3  | 49.9  |

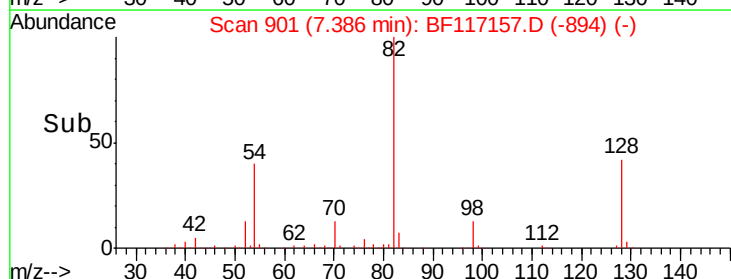
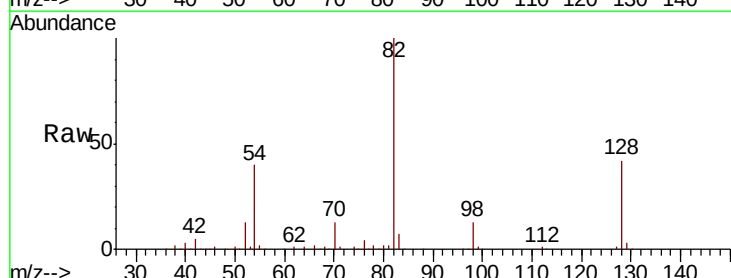


Abundance Ion 82.00 (81.70 to 82.70): BF1  
 Ion 128.00 (127.70 to 128.70): BF1  
 Ion 54.00 (53.70 to 54.70): BF1

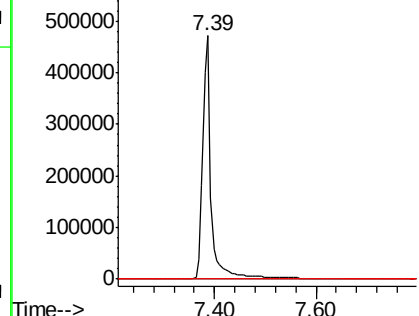


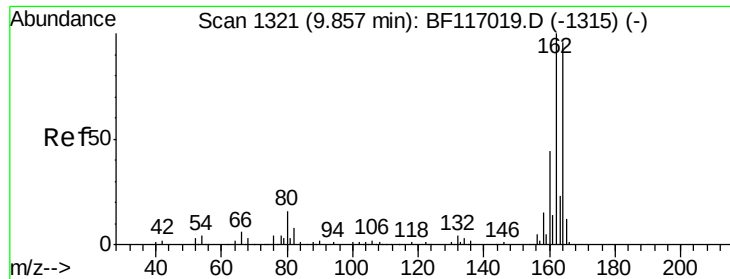
#25  
 Isophorone  
 Concen: 58.043 ng  
 RT: 7.39 min Scan# 901  
 Delta R.T. -0.26 min  
 Lab File: BF117157.D  
 Acq: 18 Sep 2019 20:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 95      | 0.0   | 5.8   | 8.6#  |
| 138     | 0.0   | 13.5  | 20.3# |



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

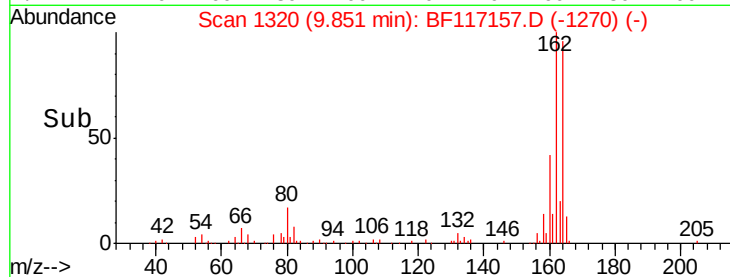
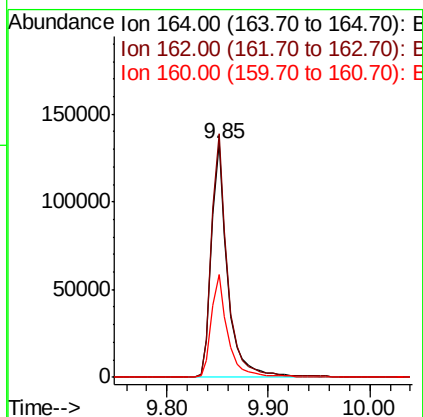
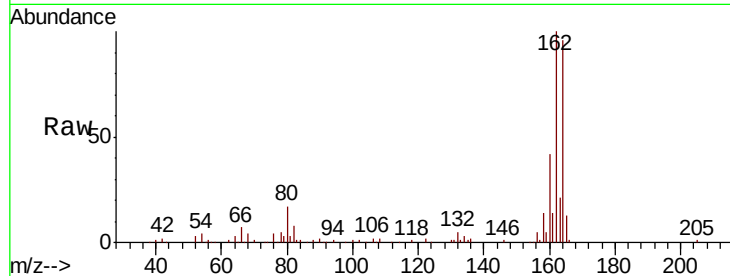




#39  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.85 min Scan# 1320  
 Delta R.T. -0.01 min  
 Lab File: BF117157.D  
 Acq: 18 Sep 2019 20:54

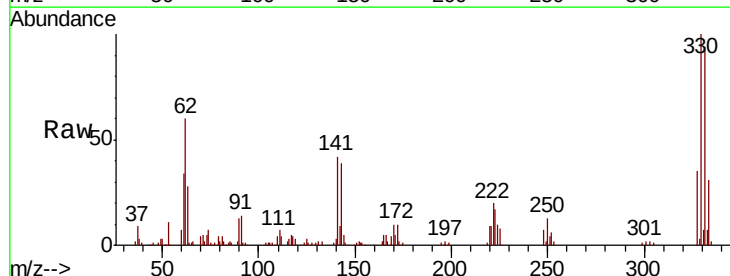
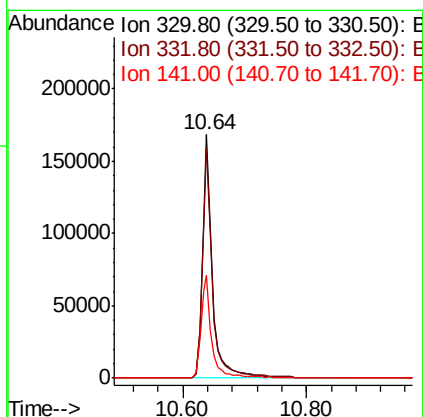
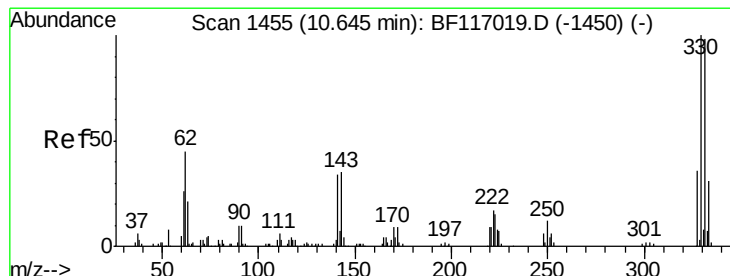
Instrument :  
 BNA\_F  
 ClientSampleId :

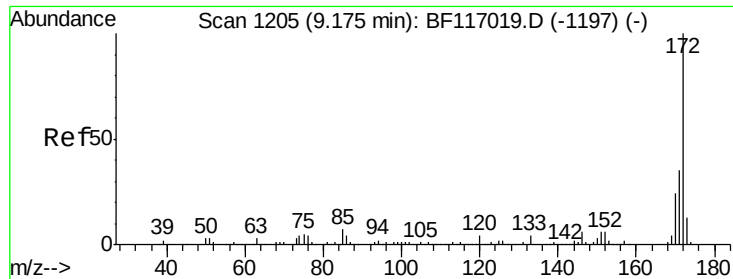
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 103.8 | 83.4  | 125.2 |
| 160     | 43.6  | 36.4  | 54.6  |



#42  
 2,4,6-Tribromophenol  
 Concen: 156.891 ng  
 RT: 10.64 min Scan# 1454  
 Delta R.T. -0.01 min  
 Lab File: BF117157.D  
 Acq: 18 Sep 2019 20:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 95.8  | 78.0  | 117.0 |
| 141     | 44.6  | 35.8  | 53.6  |

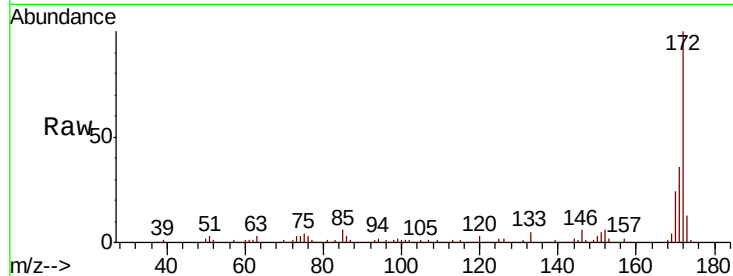




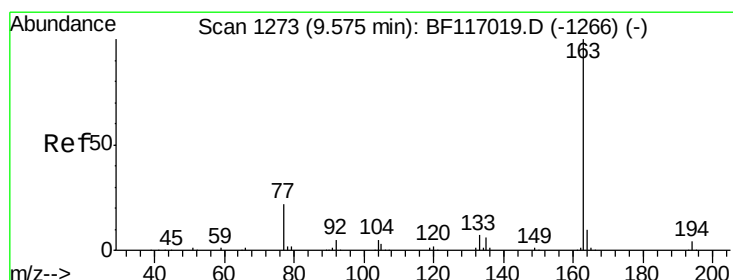
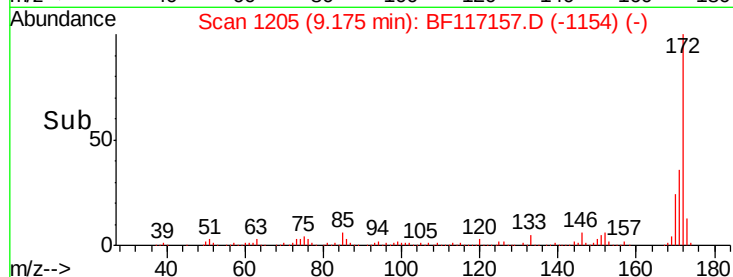
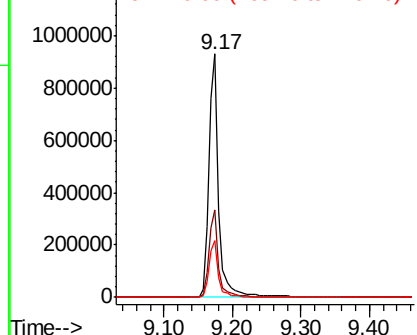
#45  
2-Fluorobiphenyl  
Concen: 99.846 ng  
RT: 9.17 min Scan# 1205  
Delta R.T. -0.00 min  
Lab File: BF117157.D  
Acq: 18 Sep 2019 20:54

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:172 Resp: 952152  
Ion Ratio Lower Upper  
172 100  
171 35.7 28.2 42.2  
170 23.5 18.9 28.3

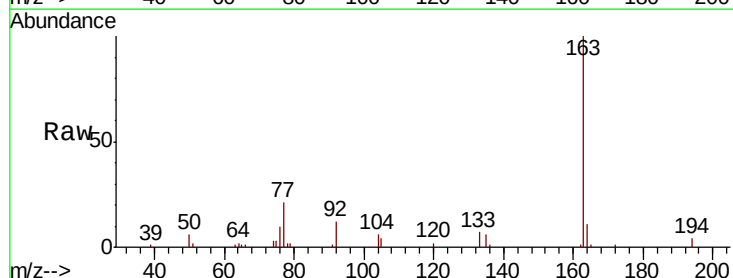


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

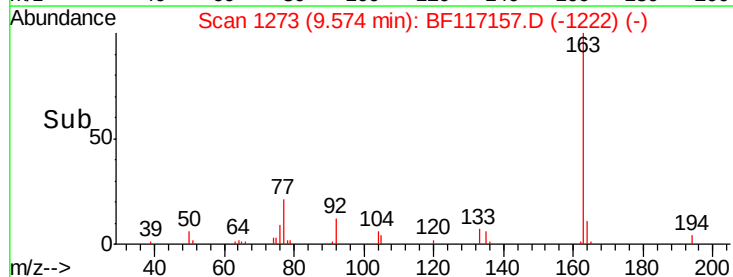
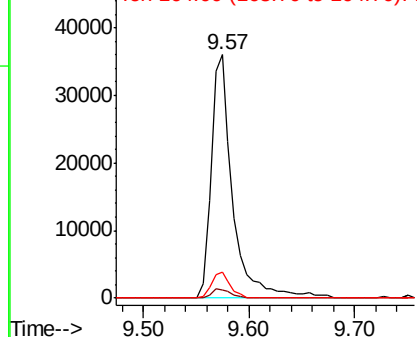


#50  
Dimethylphthalate  
Concen: 4.847 ng  
RT: 9.57 min Scan# 1273  
Delta R.T. -0.00 min  
Lab File: BF117157.D  
Acq: 18 Sep 2019 20:54

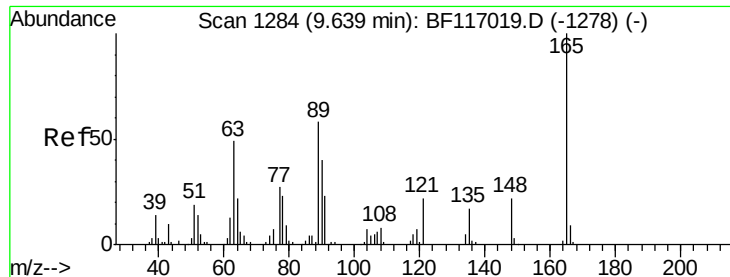
Tgt Ion:163 Resp: 51175  
Ion Ratio Lower Upper  
163 100  
194 3.6 2.9 4.3  
164 10.9 8.2 12.4



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: 9.007 ng

RT: 9.85 min Scan# 1320

Delta R.T. 0.21 min

Lab File: BF117157.D

Acq: 18 Sep 2019 20:54

Instrument :

BNA\_F

ClientSampleId :

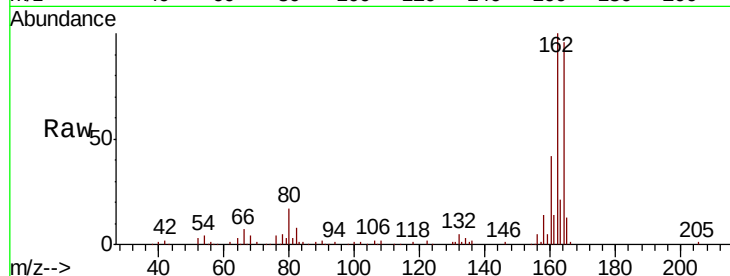
Tot Ion:165 Resp: 19366

Ion Ratio Lower Upper

165 100

63 0.0 41.8 62.8#

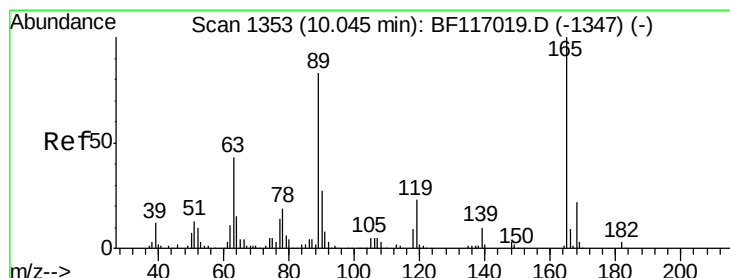
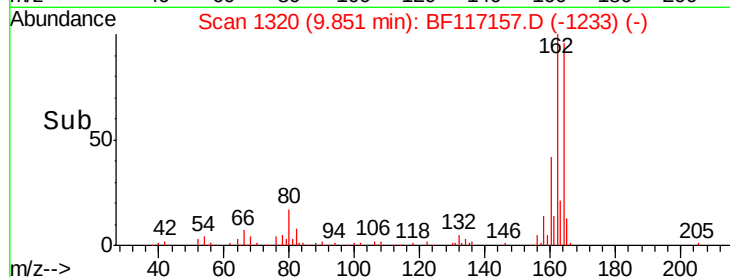
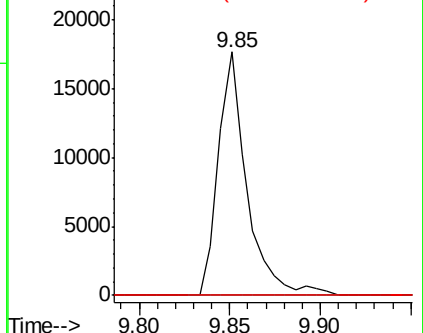
89 0.0 46.5 69.7#



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: 6.938 ng

RT: 9.85 min Scan# 1320

Delta R.T. -0.19 min

Lab File: BF117157.D

Acq: 18 Sep 2019 20:54

Tgt Ion:165 Resp: 19366

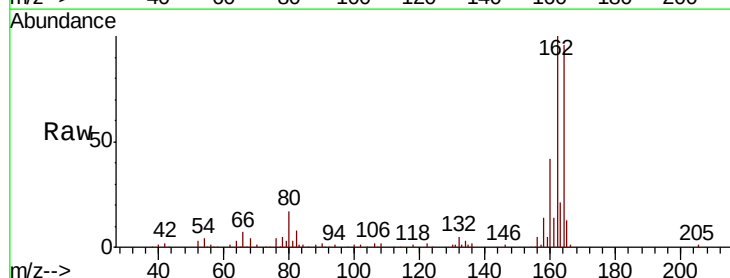
Ion Ratio Lower Upper

165 100

63 0.0 35.0 52.4#

89 0.0 66.1 99.1#

182 0.0 2.0 3.0#

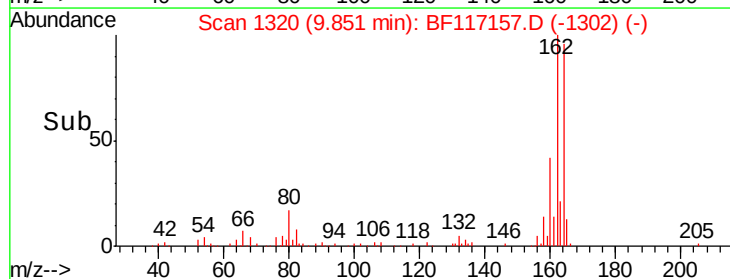
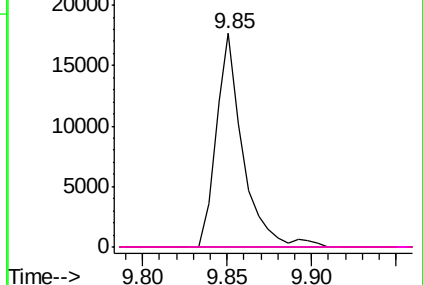


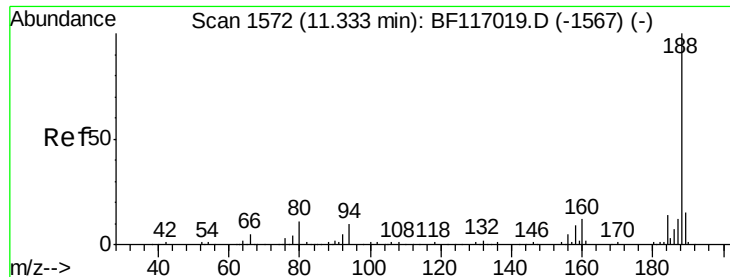
Abundance Ion 165.00 (164.70 to 165.70): E

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

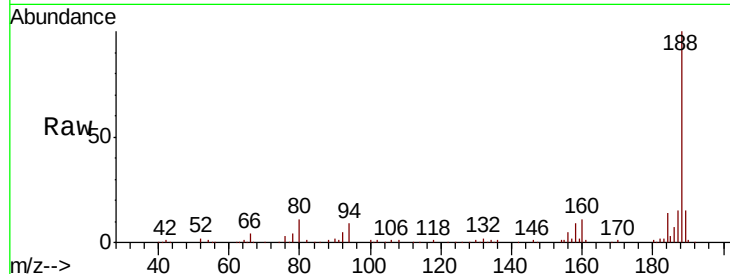




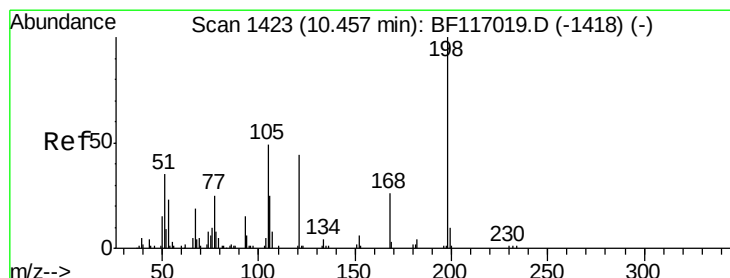
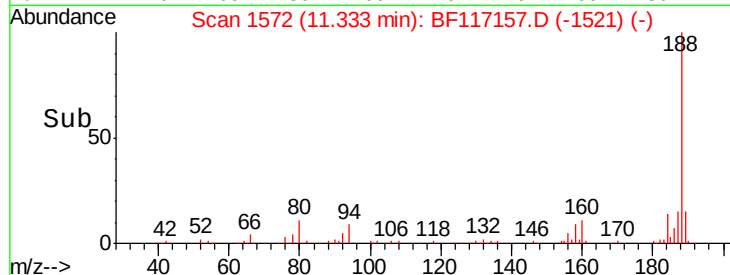
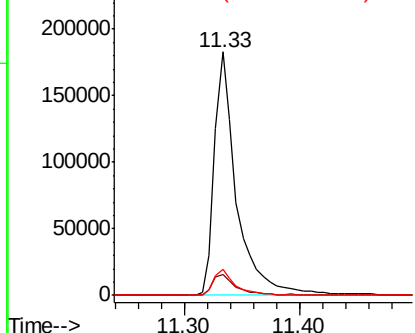
#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.33 min Scan# 1572  
 Delta R.T. -0.00 min  
 Lab File: BF117157.D  
 Acq: 18 Sep 2019 20:54

Instrument :  
 BNA\_F  
 ClientSampled :

Tot Ion:188 Resp: 245581  
 Ion Ratio Lower Upper  
 188 100  
 94 8.5 8.2 12.2  
 80 10.6 9.0 13.6

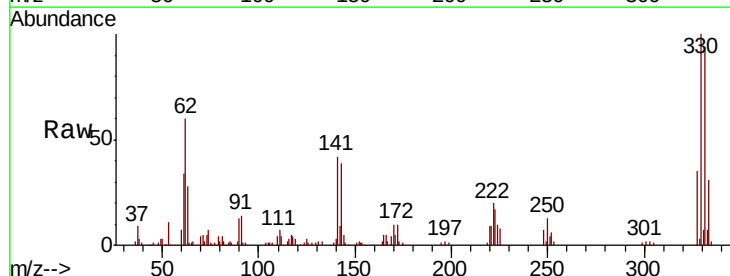


Abundance Ion 188.00 (187.70 to 188.70): E  
 Ion 94.00 (93.70 to 94.70): BF1  
 Ion 80.00 (79.70 to 80.70): BF1

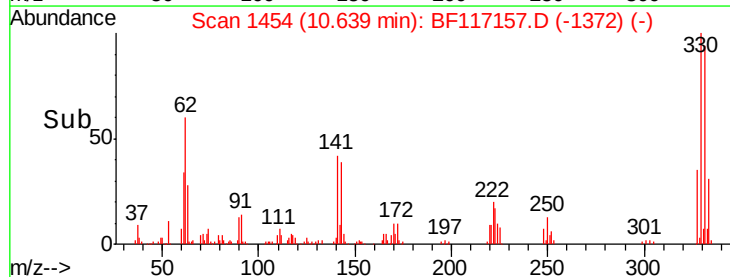
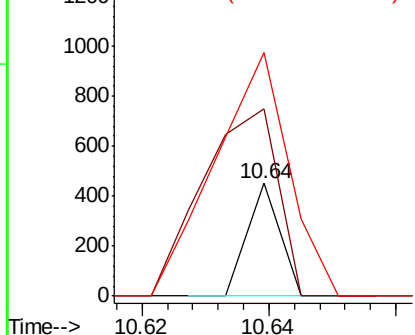


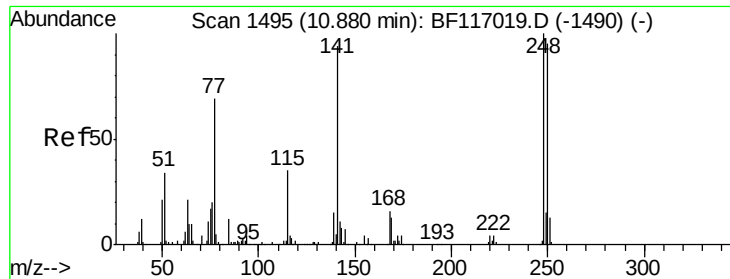
#65  
 4,6-Dinitro-2-methylphenol  
 Concen: 7.024 ng  
 RT: 10.64 min Scan# 1454  
 Delta R.T. 0.18 min  
 Lab File: BF117157.D  
 Acq: 18 Sep 2019 20:54

Tgt Ion:198 Resp: 159  
 Ion Ratio Lower Upper  
 198 100  
 51 166.3 18.7 58.7#  
 105 216.2 30.2 70.2#



Abundance Ion 198.00 (197.70 to 198.70): E  
 Ion 51.00 (50.70 to 51.70): BF1  
 Ion 105.00 (104.70 to 105.70): E

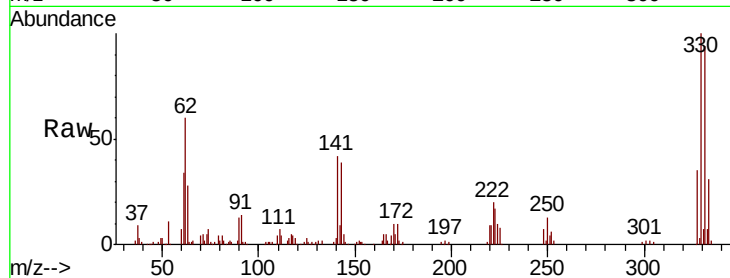




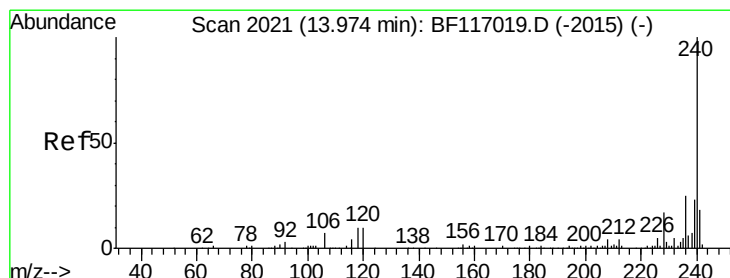
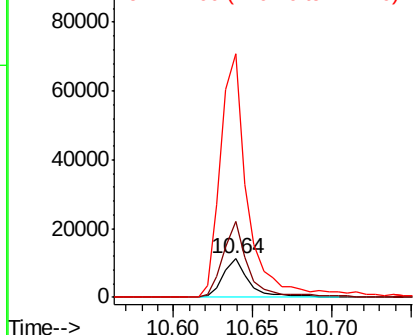
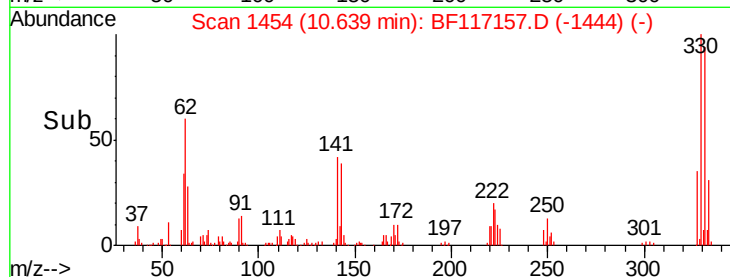
#67  
4-Bromophenyl-phenylether  
Concen: 5.043 ng  
RT: 10.64 min Scan# 1454  
Delta R.T. -0.24 min  
Lab File: BF117157.D  
Acq: 18 Sep 2019 20:54

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion:248 Resp: 12647  
Ion Ratio Lower Upper  
248 100  
250 197.2 76.2 114.4#  
141 637.2 75.0 112.4#

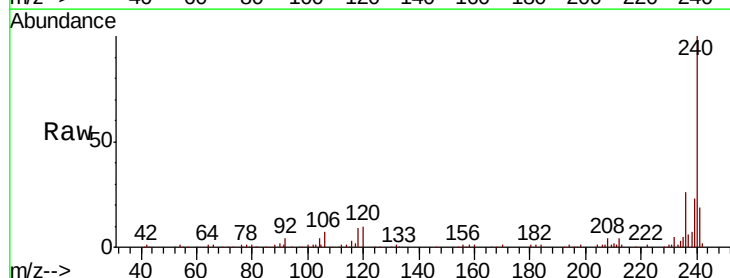


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

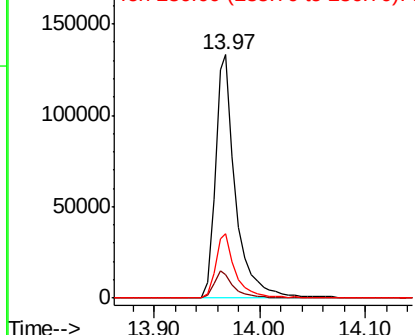
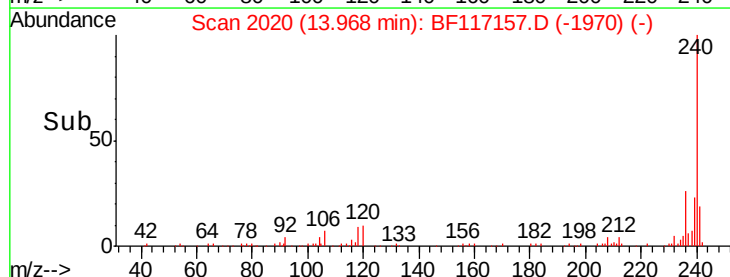


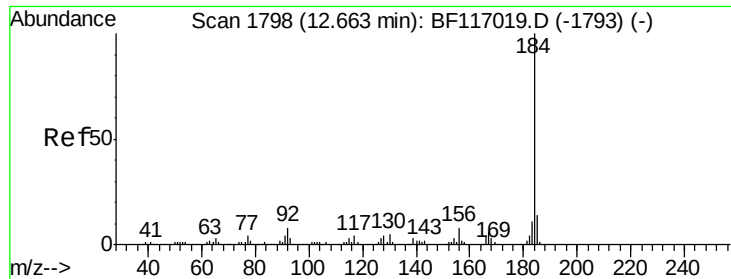
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.97 min Scan# 2020  
Delta R.T. -0.01 min  
Lab File: BF117157.D  
Acq: 18 Sep 2019 20:54

Tgt Ion:240 Resp: 178381  
Ion Ratio Lower Upper  
240 100  
120 9.7 8.3 12.5  
236 26.4 20.3 30.5



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





#77

Benzidine

Concen: 2.376 ng

RT: 12.91 min Scan# 1840

Delta R.T. 0.25 min

Lab File: BF117157.D

Acq: 18 Sep 2019 20:54

Instrument :

BNA\_F

ClientSampleId :

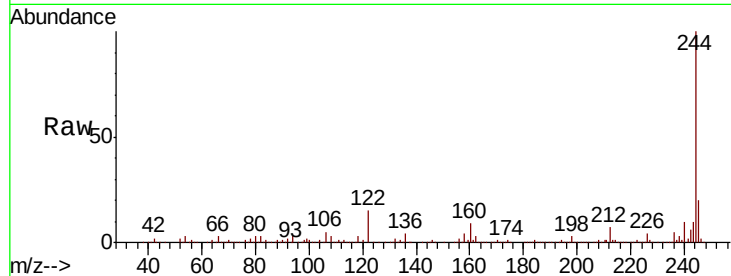
Tot Ion:184 Resp: 13652

Ion Ratio Lower Upper

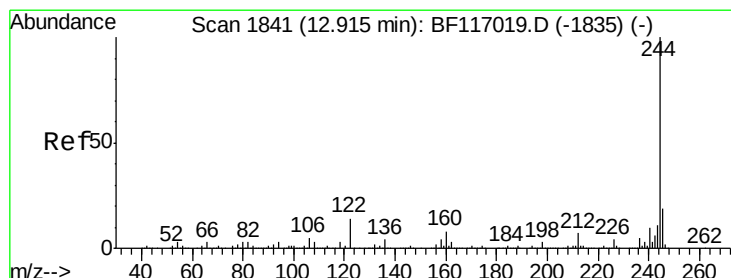
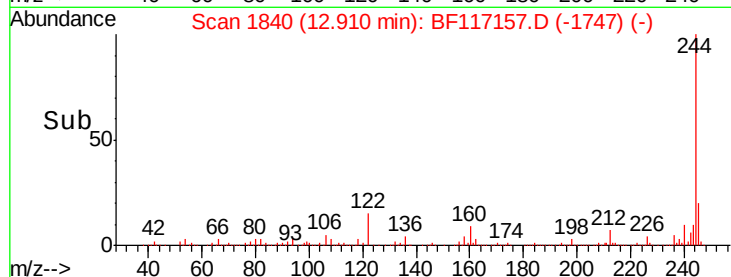
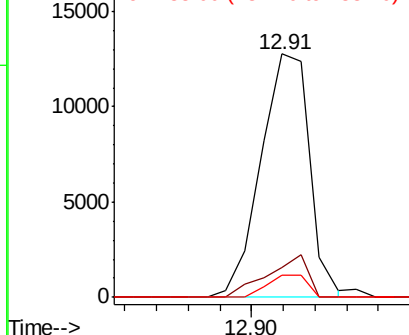
184 100

185 12.4 11.6 17.4

183 9.0 9.0 13.4



Abundance Ion 184.00 (183.70 to 184.70): E  
Ion 185.00 (184.70 to 185.70): E  
Ion 183.00 (182.70 to 183.70): E



#79

Terphenyl-d14

Concen: 98.137 ng

RT: 12.92 min Scan# 1841

Delta R.T. -0.00 min

Lab File: BF117157.D

Acq: 18 Sep 2019 20:54

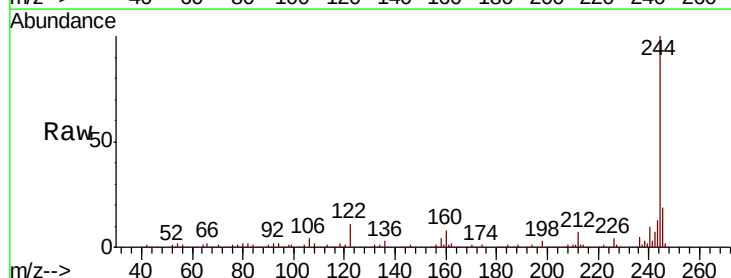
Tgt Ion:244 Resp: 936524

Ion Ratio Lower Upper

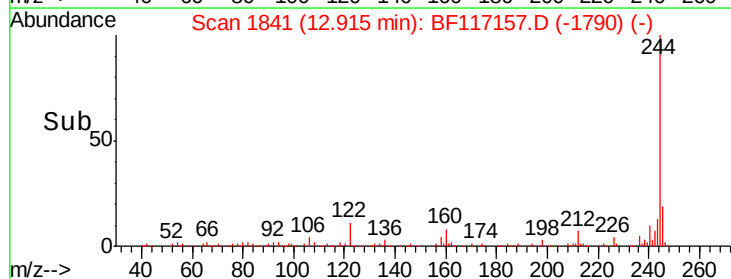
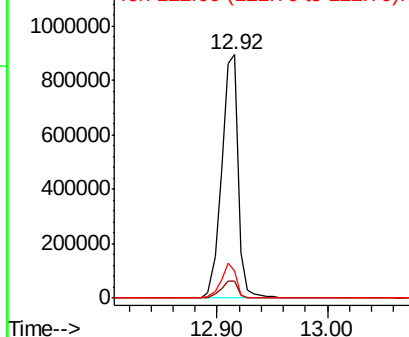
244 100

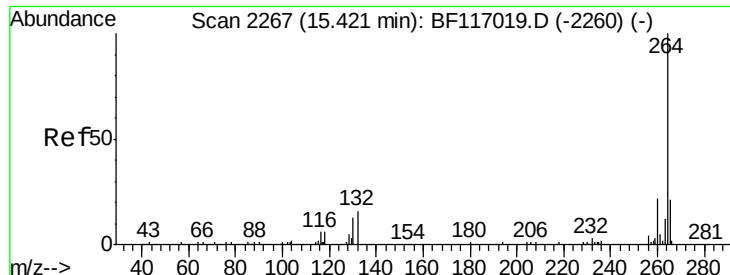
212 7.2 5.8 8.8

122 11.4 11.3 16.9



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

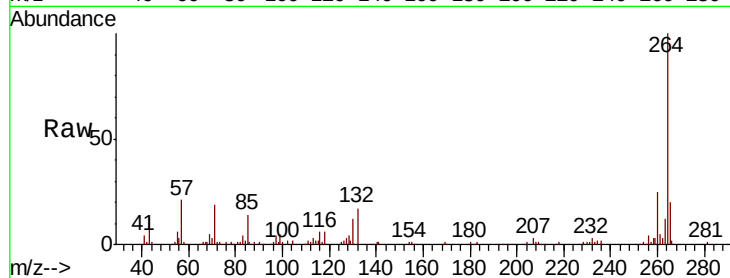




#87  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.42 min Scan# 2266  
Delta R.T. -0.01 min  
Lab File: BF117157.D  
Acq: 18 Sep 2019 20:54

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.5  | 17.6  | 26.4  |
| 265     | 20.2  | 16.6  | 24.8  |



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

