

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102319\  
 Data File : BF117500.D  
 Acq On : 23 Oct 2019 22:57  
 Operator : JU  
 Sample : K5497-01  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Oct 24 08:25:47 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  | 50650    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.01  | 136  | 205135   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 9.76  | 164  | 103282   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 11.25 | 188  | 162572   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 13.89 | 240  | 93214    | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 15.32 | 264  | 106045   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 5) 2-Fluorophenol           | 5.35  | 112  | 278819   | 81.90 | ng    | 0.00     |
| 7) Phenol-d6                | 6.38  | 99   | 390575   | 85.41 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.30  | 82   | 244184   | 58.77 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.56 | 330  | 69530    | 77.80 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.09  | 172  | 323082   | 44.08 | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.83 | 244  | 233347   | 40.83 | ng    | 0.00     |

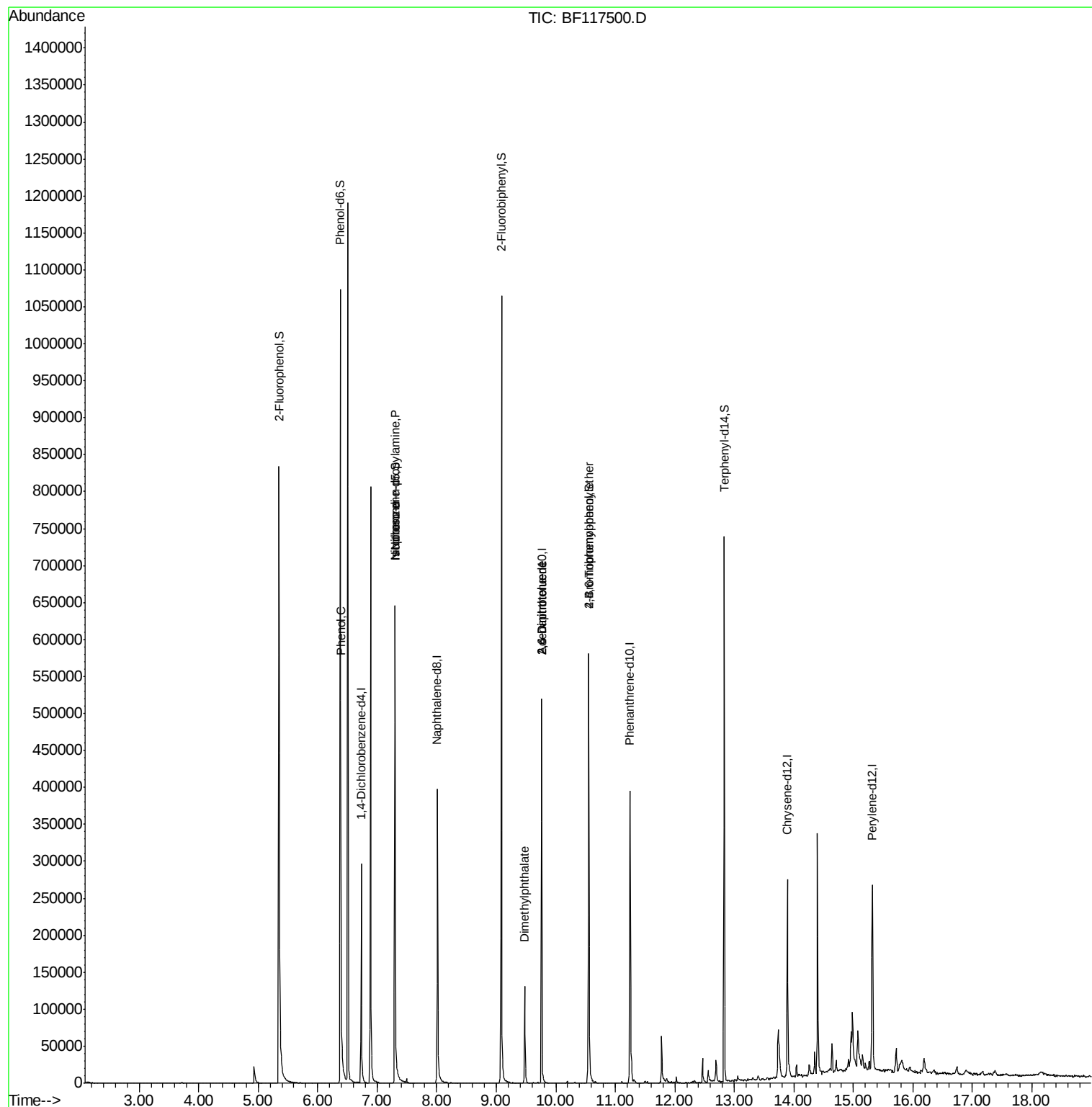
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 9) Benzaldehyde                | 6.38  | 77   | 390      | Below Cal | #     | 3      |
| 10) Phenol                     | 6.39  | 94   | 10707    | 2.294     | ng    | 87     |
| 19) n-Nitroso-di-n-propylamine | 7.30  | 70   | 30248    | 10.831    | ng    | 79     |
| 25) Isophorone                 | 7.30  | 82   | 244182   | 33.970    | ng    | 65     |
| 50) Dimethylphthalate          | 9.48  | 163  | 52981    | 7.196     | ng    | 99     |
| 51) 2,6-Dinitrotoluene         | 9.76  | 165  | 13093    | 8.522     | ng    | 22     |
| 57) 2,4-Dinitrotoluene         | 9.76  | 165  | 13093    | 6.409     | ng    | 12     |
| 67) 4-Bromophenyl-phenylether  | 10.56 | 248  | 4088     | 2.335     | ng    | 1      |
| 77) Benzidine                  | 12.83 | 184  | 3279     | Below Cal | #     | 95     |

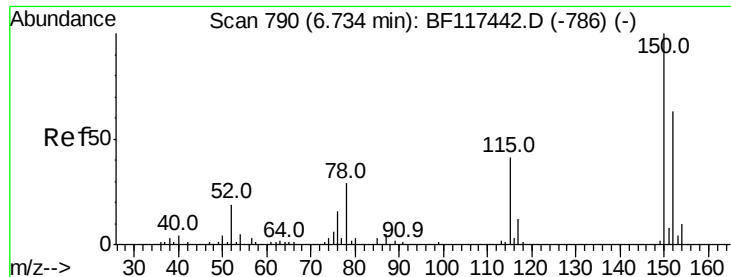
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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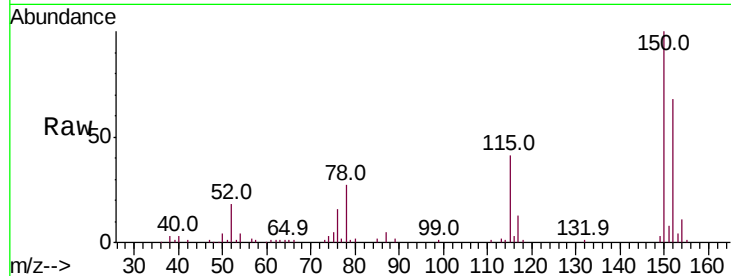


#1

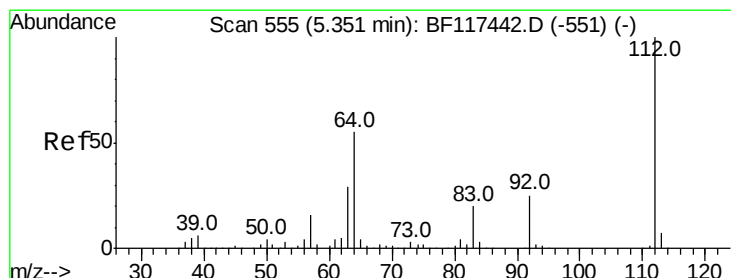
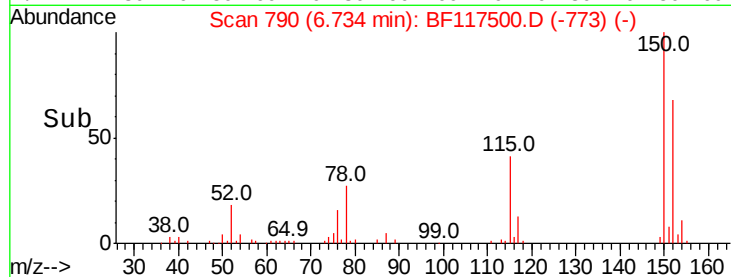
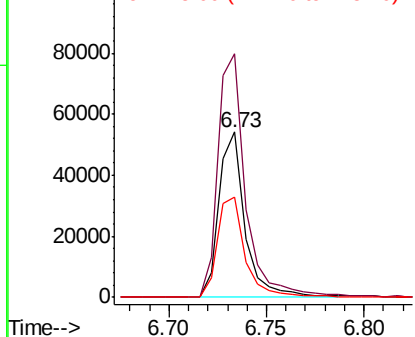
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.73 min Scan# 790  
Delta R.T. 0.00 min  
Lab File: BF117500.D  
Acq: 23 Oct 2019 22:57

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 50650  
Ion Ratio Lower Upper  
152 100  
150 147.2 126.8 190.2  
115 60.6 51.6 77.4



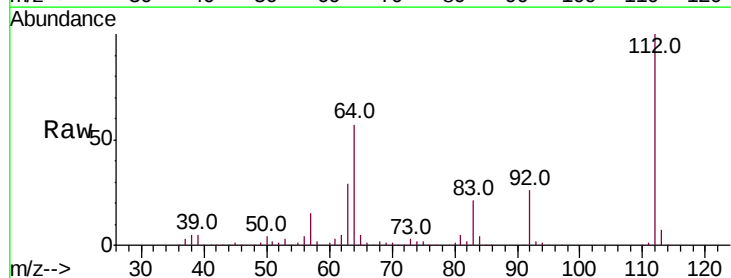
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



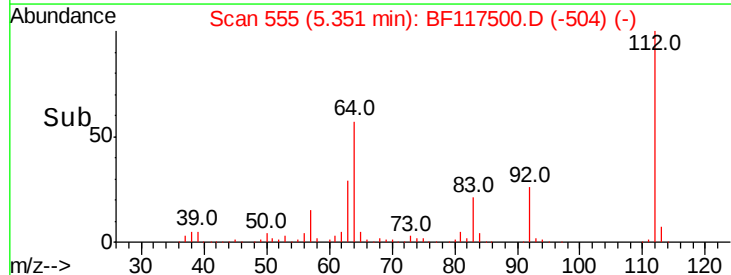
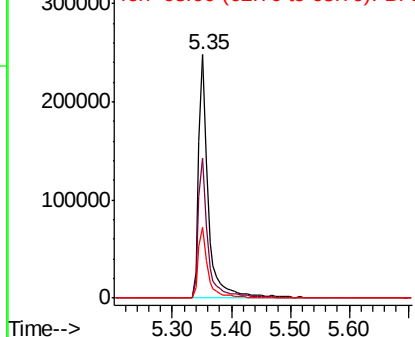
#5

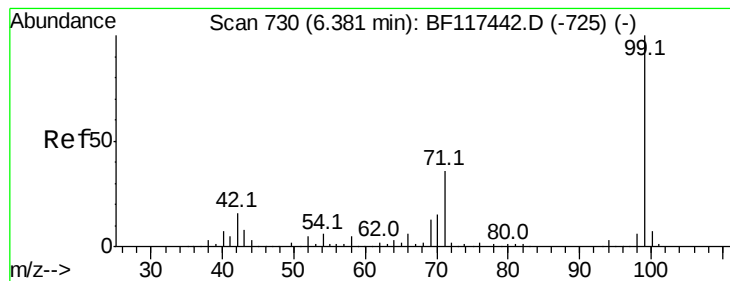
2-Fluorophenol  
Concen: 81.895 ng  
RT: 5.35 min Scan# 555  
Delta R.T. 0.00 min  
Lab File: BF117500.D  
Acq: 23 Oct 2019 22:57

Tgt Ion:112 Resp: 278819  
Ion Ratio Lower Upper  
112 100  
64 57.3 44.1 66.1  
63 29.3 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: 85.414 ng

RT: 6.38 min Scan# 730

Delta R.T. 0.00 min

Lab File: BF117500.D

Acq: 23 Oct 2019 22:57

Instrument :

BNA\_F

ClientSampleId :

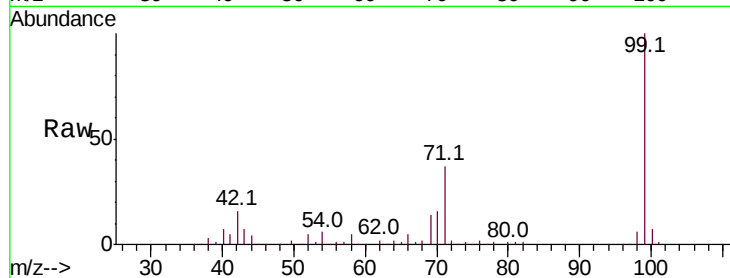
Tot Ion: 99 Resp: 390575

Ion Ratio Lower Upper

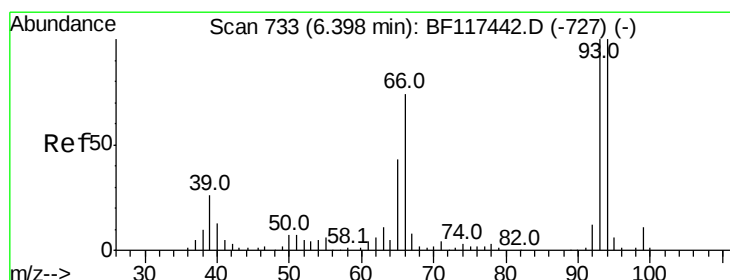
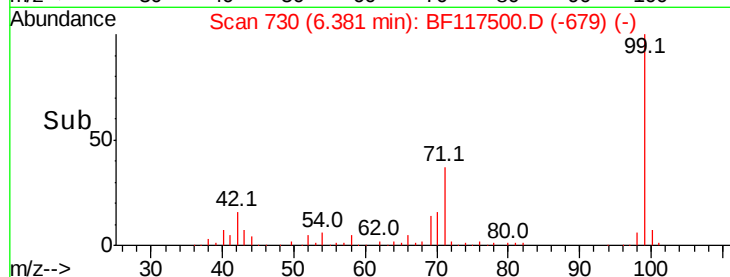
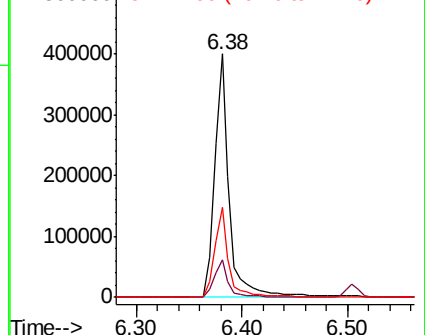
99 100

42 15.5 12.8 19.2

71 36.7 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



#10

Phenol

Concen: 2.294 ng

RT: 6.39 min Scan# 732

Delta R.T. -0.01 min

Lab File: BF117500.D

Acq: 23 Oct 2019 22:57

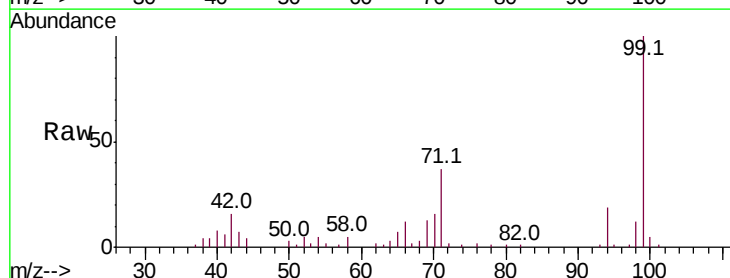
Tgt Ion: 94 Resp: 10707

Ion Ratio Lower Upper

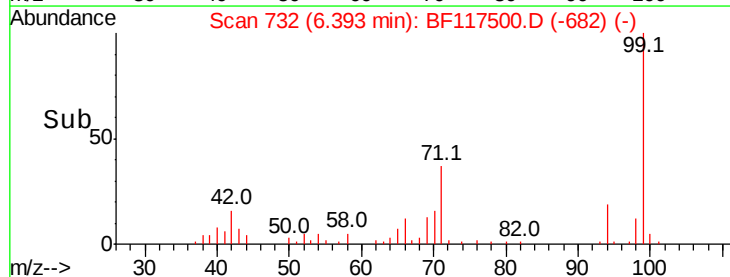
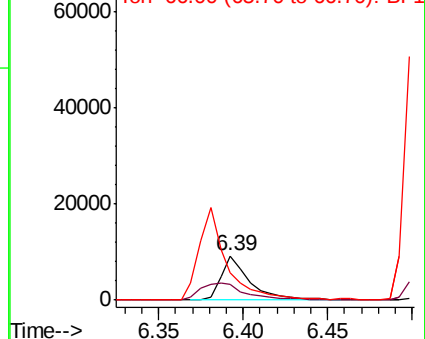
94 100

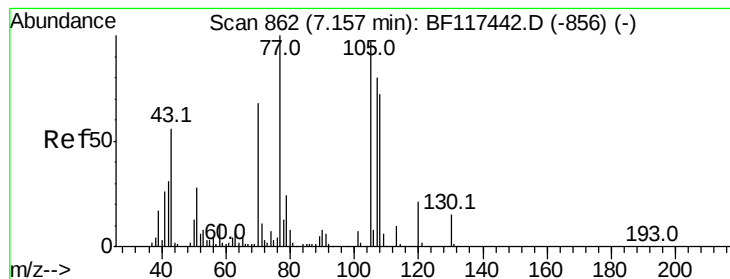
65 35.0 23.4 63.4

66 63.5 54.7 94.7



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: 10.831 ng

RT: 7.30 min Scan# 886

Delta R.T. 0.14 min

Lab File: BF117500.D

Acq: 23 Oct 2019 22:57

Instrument :

BNA\_F

ClientSampleId :

Tot Ion: 70 Resp: 30248

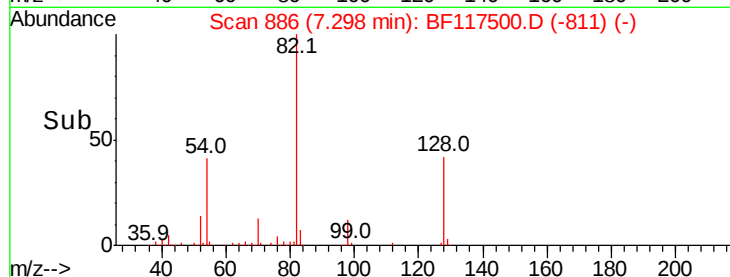
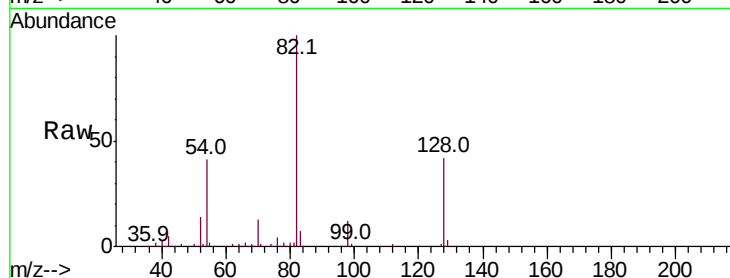
Ion Ratio Lower Upper

70 100

42 40.1 36.7 55.1

101 0.0 8.3 12.5#

130 1.4 18.1 27.1#

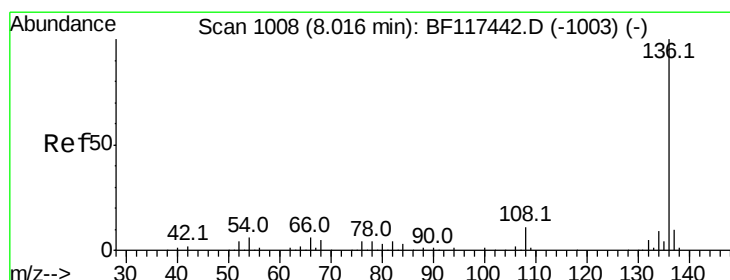
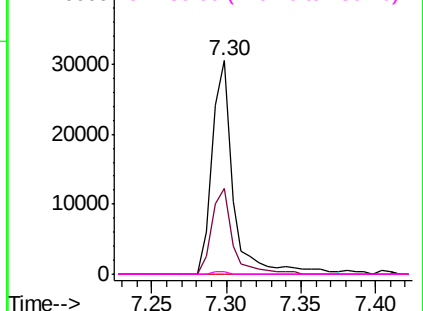


Abundance Ion 70.00 (69.70 to 70.70): BF1

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: 8.01 min Scan# 1007

Delta R.T. -0.01 min

Lab File: BF117500.D

Acq: 23 Oct 2019 22:57

Tgt Ion:136 Resp: 205135

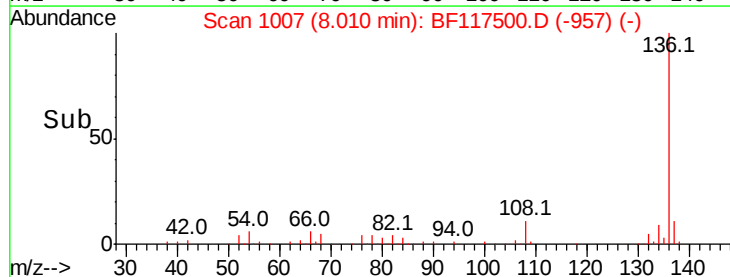
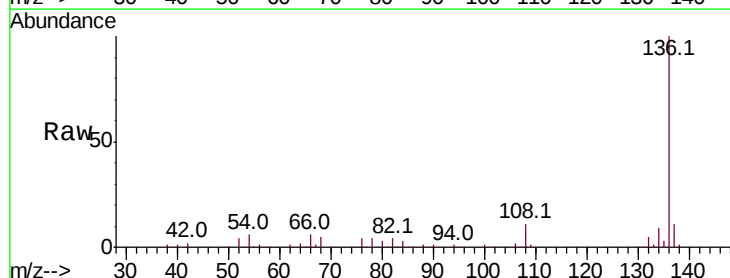
Ion Ratio Lower Upper

136 100

137 10.8 8.2 12.4

54 5.9 4.5 6.7

68 5.0 4.3 6.5

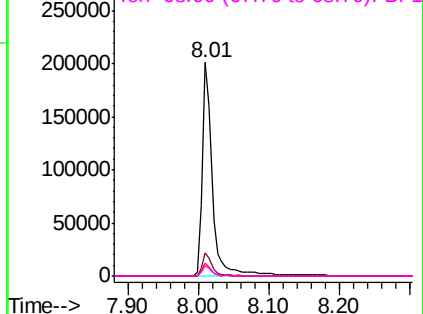


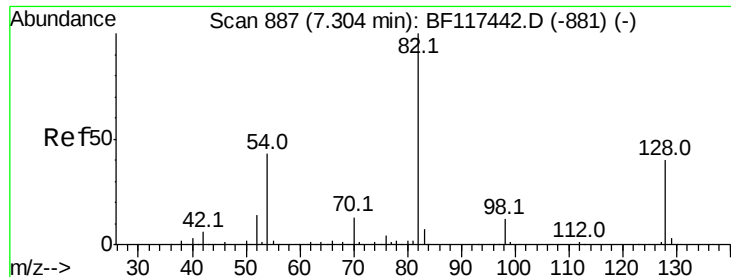
Abundance Ion 136.00 (135.70 to 136.70): BF1

Ion 137.00 (136.70 to 137.70): BF1

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1

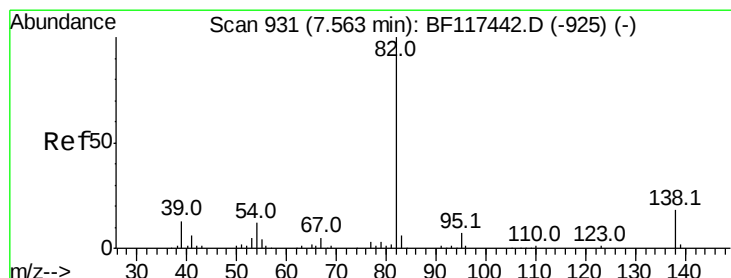
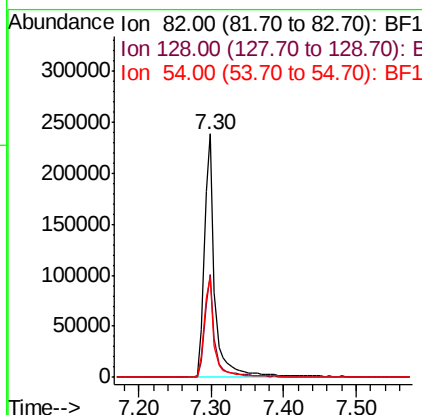
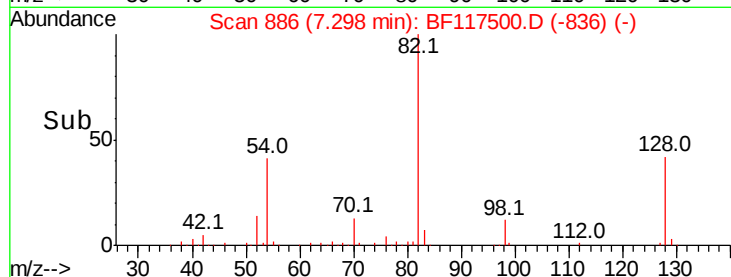
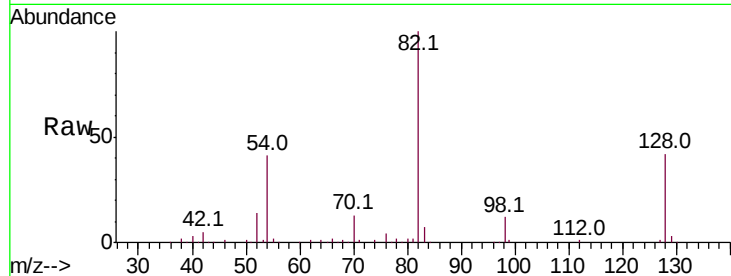




#23  
Nitrobenzene-d5  
Concen: 58.765 ng  
RT: 7.30 min Scan# 886  
Delta R.T. -0.01 min  
Lab File: BF117500.D  
Acq: 23 Oct 2019 22:57

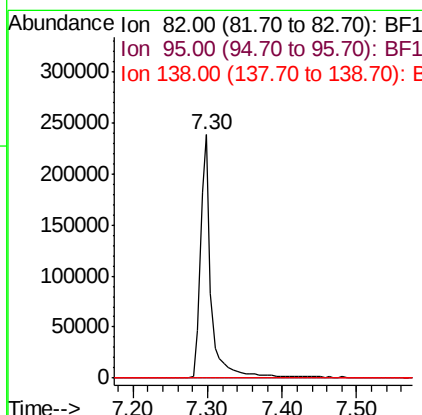
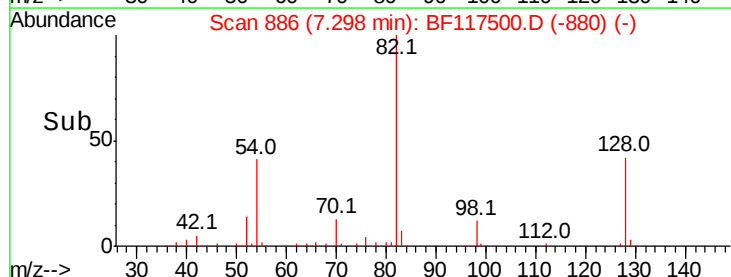
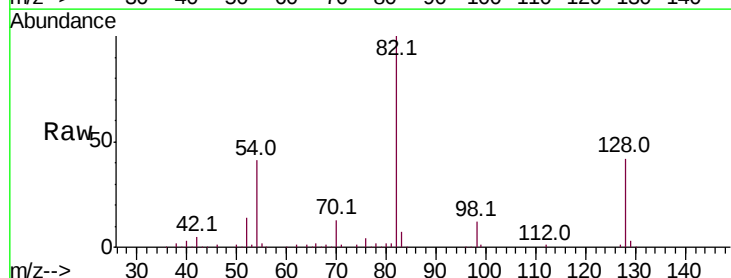
Instrument :  
BNA\_F  
ClientSampleId :

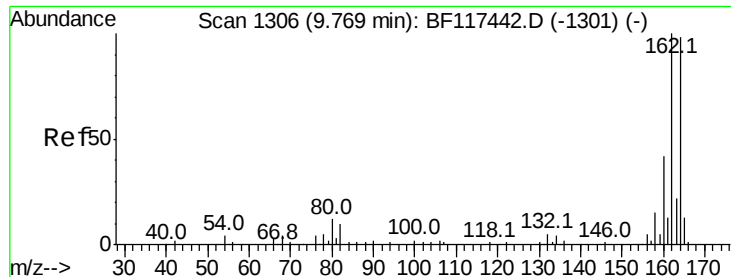
Tot Ion: 82 Resp: 244184  
Ion Ratio Lower Upper  
82 100  
128 42.4 32.2 48.2  
54 41.4 34.2 51.2



#25  
Isophorone  
Concen: 33.970 ng  
RT: 7.30 min Scan# 886  
Delta R.T. -0.26 min  
Lab File: BF117500.D  
Acq: 23 Oct 2019 22:57

Tgt Ion: 82 Resp: 244182  
Ion Ratio Lower Upper  
82 100  
95 0.0 5.4 8.0#  
138 0.0 14.2 21.2#

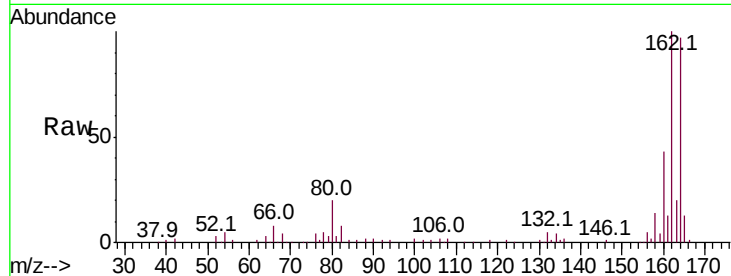




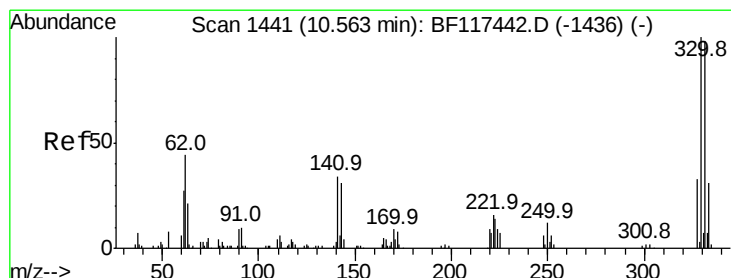
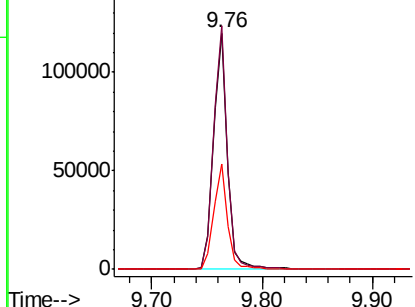
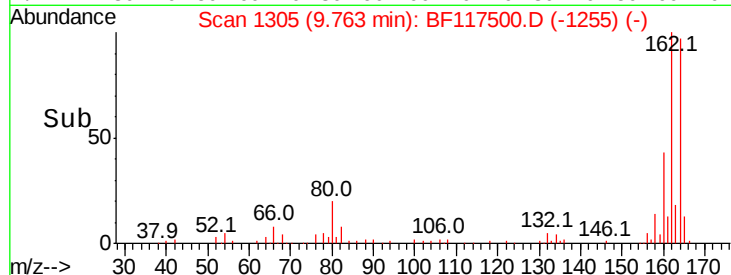
#39  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.76 min Scan# 1305  
 Delta R.T. -0.01 min  
 Lab File: BF117500.D  
 Acq: 23 Oct 2019 22:57

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:164 Resp: 103282  
 Ion Ratio Lower Upper  
 164 100  
 162 103.0 81.8 122.6  
 160 44.4 34.4 51.6

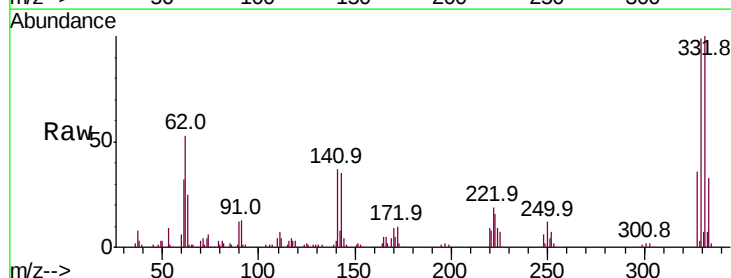


Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E

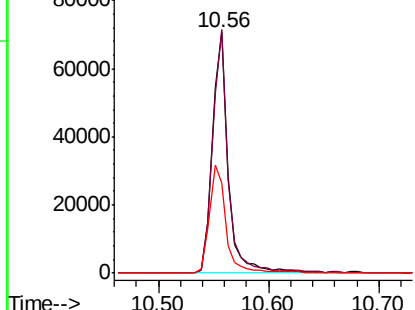
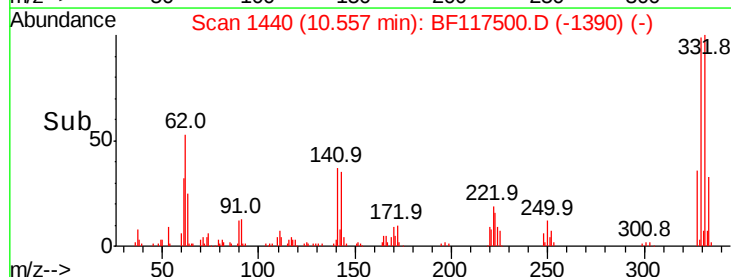


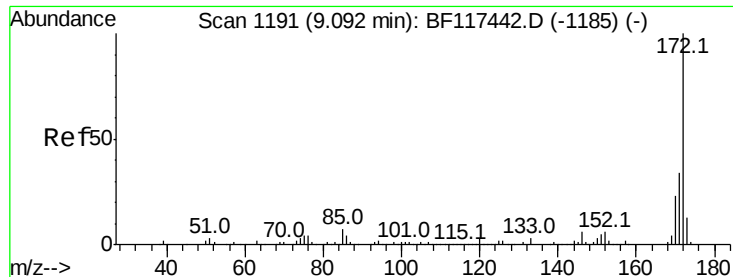
#42  
 2,4,6-Tribromophenol  
 Concen: 77.804 ng  
 RT: 10.56 min Scan# 1440  
 Delta R.T. -0.01 min  
 Lab File: BF117500.D  
 Acq: 23 Oct 2019 22:57

Tgt Ion:330 Resp: 69530  
 Ion Ratio Lower Upper  
 330 100  
 332 97.4 78.5 117.7  
 141 46.2 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

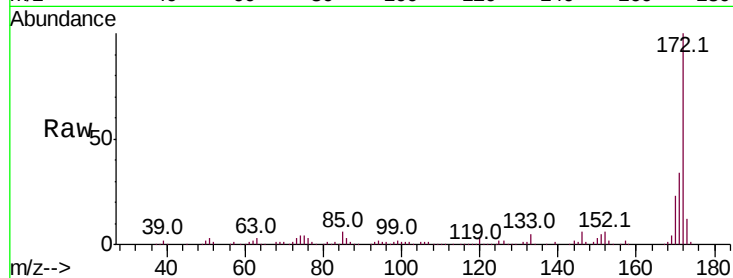




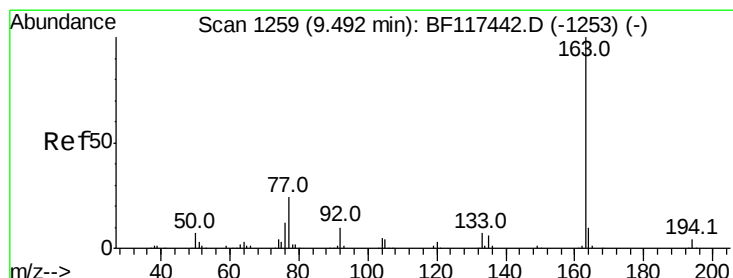
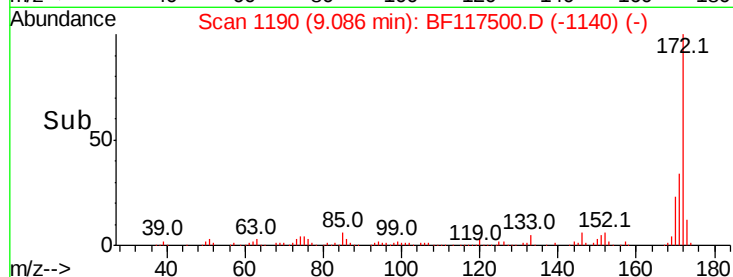
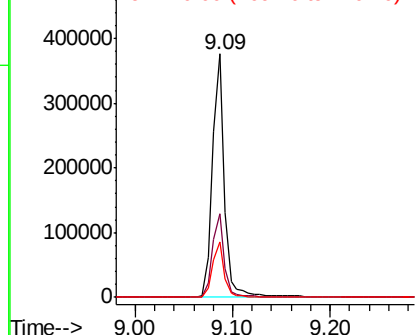
#45  
2-Fluorobiphenyl  
Concen: 44.075 ng  
RT: 9.09 min Scan# 1190  
Delta R.T. -0.01 min  
Lab File: BF117500.D  
Acq: 23 Oct 2019 22:57

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:172 Resp: 323082  
Ion Ratio Lower Upper  
172 100  
171 34.1 27.5 41.3  
170 22.5 18.6 27.8

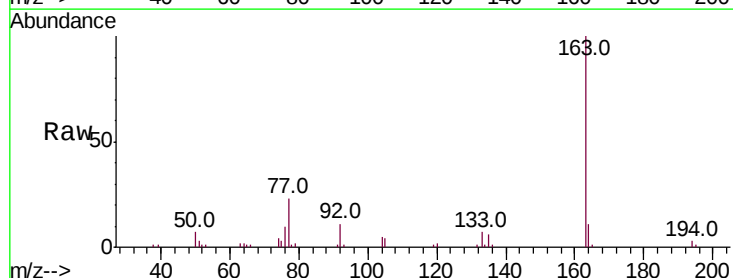


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

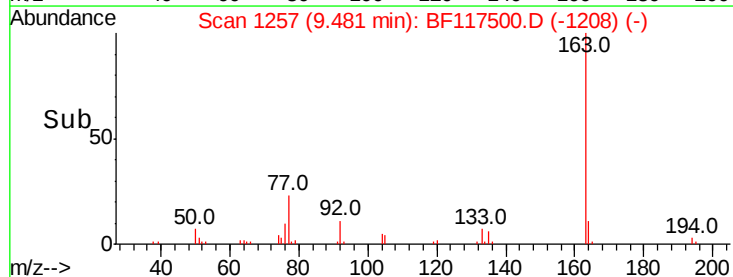
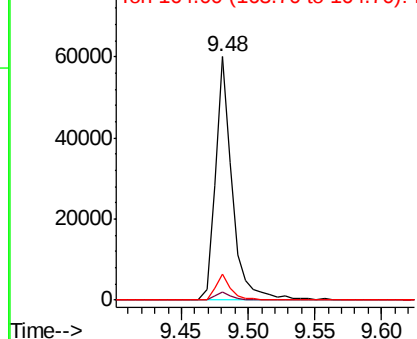


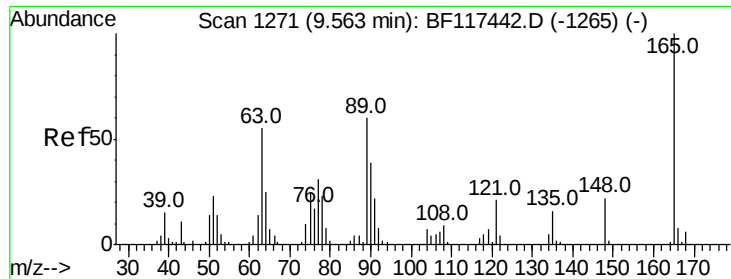
#50  
Dimethylphthalate  
Concen: 7.196 ng  
RT: 9.48 min Scan# 1257  
Delta R.T. -0.01 min  
Lab File: BF117500.D  
Acq: 23 Oct 2019 22:57

Tgt Ion:163 Resp: 52981  
Ion Ratio Lower Upper  
163 100  
194 3.3 2.9 4.3  
164 10.8 8.2 12.2



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

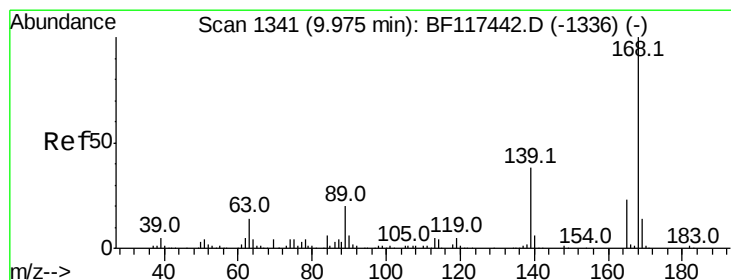
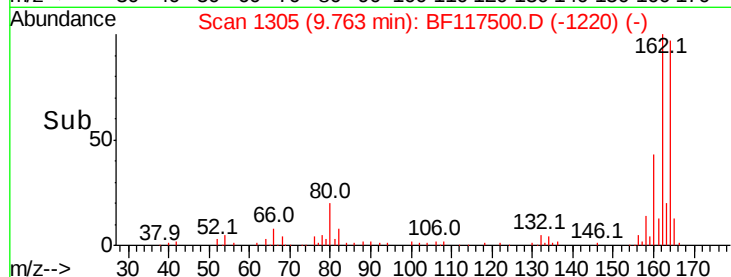
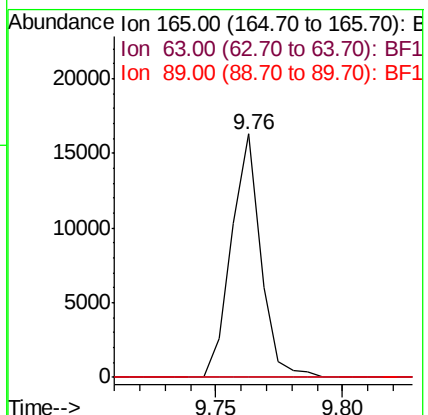
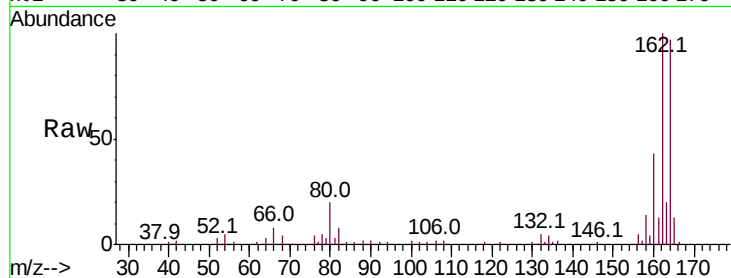




#51  
 2,6-Dinitrotoluene  
 Concen: 8.522 ng  
 RT: 9.76 min Scan# 1305  
 Delta R.T. 0.20 min  
 Lab File: BF117500.D  
 Acq: 23 Oct 2019 22:57

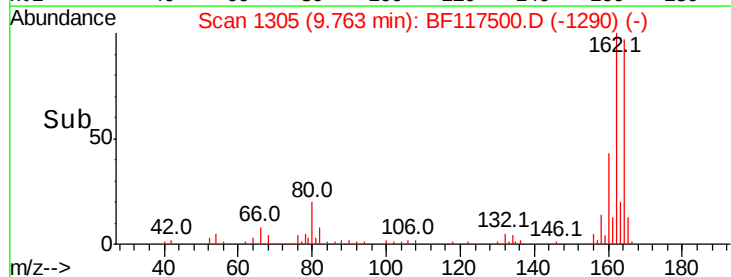
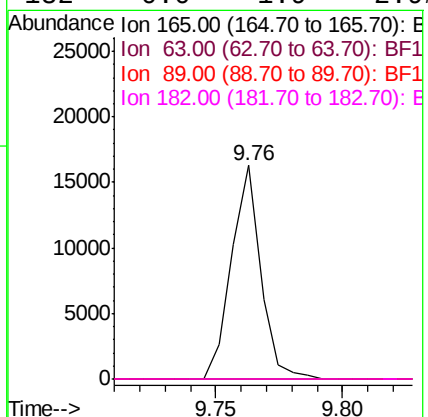
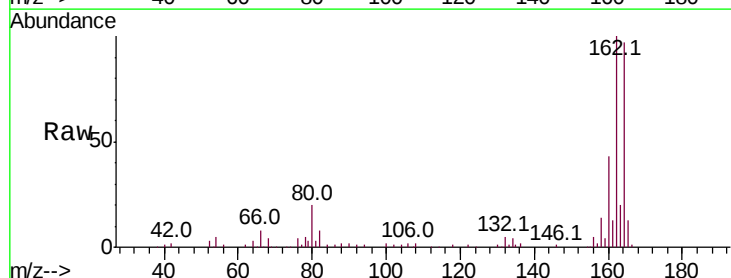
Instrument :  
 BNA\_F  
 ClientSampleId :

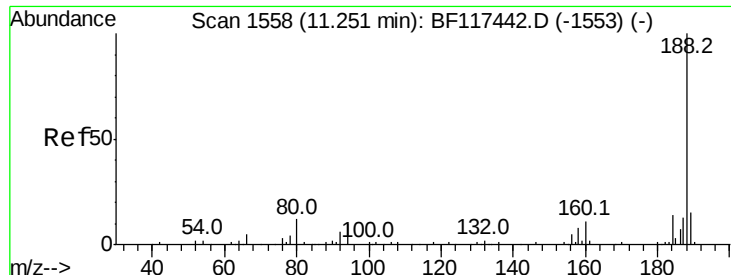
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 43.8  | 65.8# |
| 89      | 0.0   | 47.6  | 71.4# |



#57  
 2,4-Dinitrotoluene  
 Concen: 6.409 ng  
 RT: 9.76 min Scan# 1305  
 Delta R.T. -0.21 min  
 Lab File: BF117500.D  
 Acq: 23 Oct 2019 22:57

| Tgt 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# 1557

Delta R.T. -0.01 min

Lab File: BF117500.D

Acq: 23 Oct 2019 22:57

Instrument :

BNA\_F

ClientSampleId :

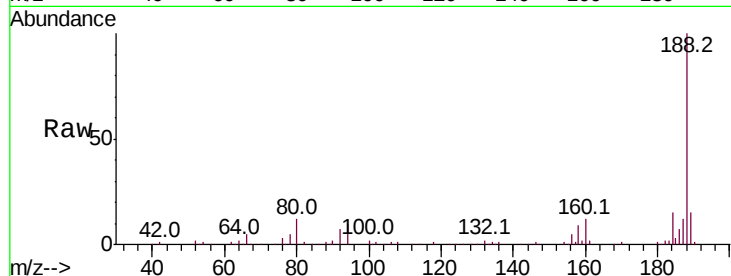
Tot Ion:188 Resp: 162572

Ion Ratio Lower Upper

188 100

94 10.2 8.0 12.0

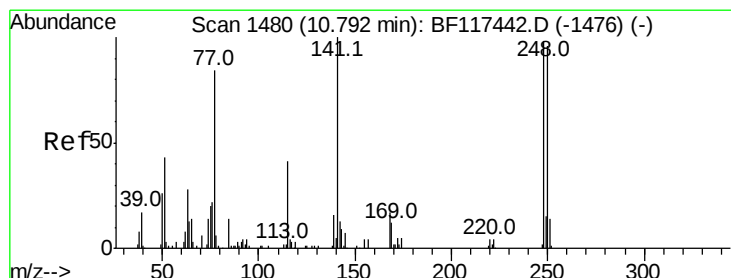
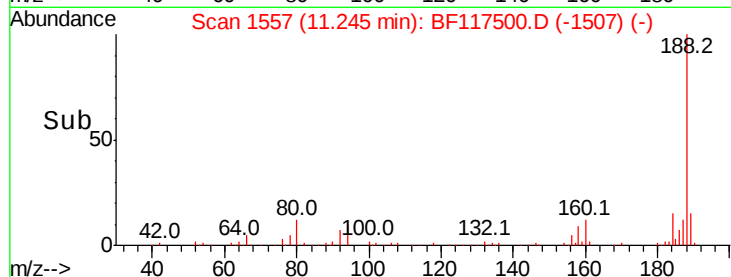
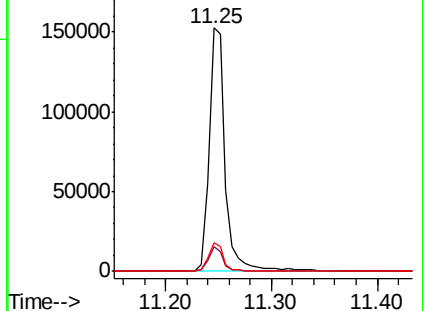
80 11.9 9.5 14.3



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



#67

4-Bromophenyl-phenylether

Concen: 2.335 ng

RT: 10.56 min Scan# 1440

Delta R.T. -0.24 min

Lab File: BF117500.D

Acq: 23 Oct 2019 22:57

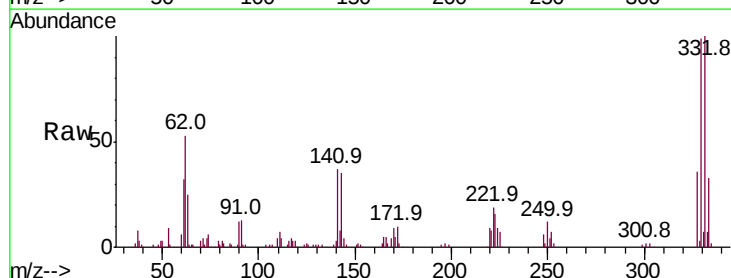
Tgt Ion:248 Resp: 4088

Ion Ratio Lower Upper

248 100

250 211.0 78.0 117.0#

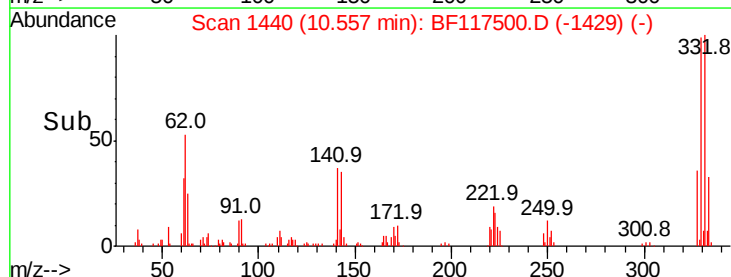
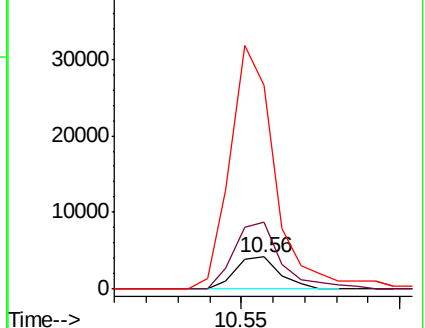
141 641.0 81.7 122.5#

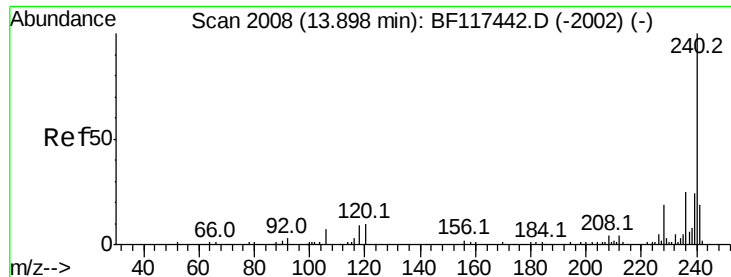


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E

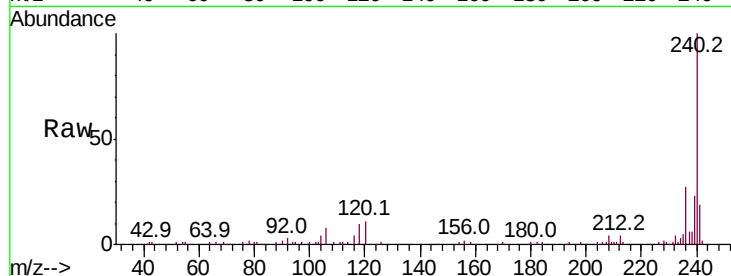




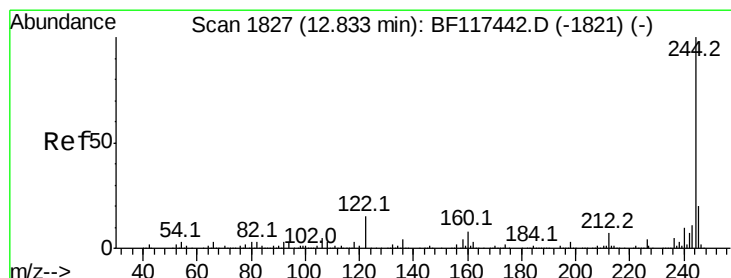
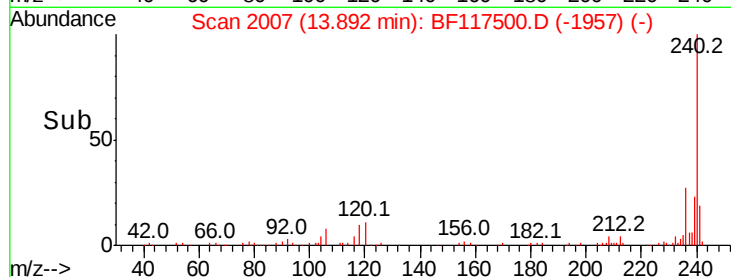
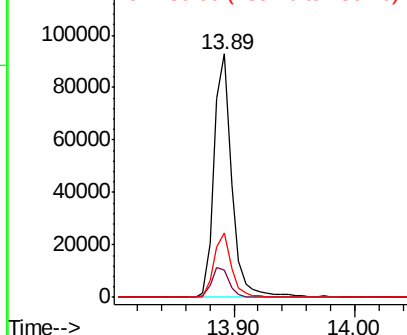
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.89 min Scan# 2007  
Delta R.T. -0.01 min  
Lab File: BF117500.D  
Acq: 23 Oct 2019 22:57

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:240 Resp: 93214  
Ion Ratio Lower Upper  
240 100  
120 11.2 8.4 12.6  
236 26.6 20.0 30.0

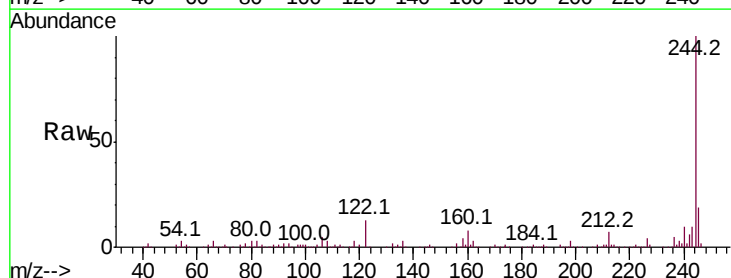


Abundance Ion 240.00 (239.70 to 240.70): E  
Ion 120.00 (119.70 to 120.70): E  
Ion 236.00 (235.70 to 236.70): E

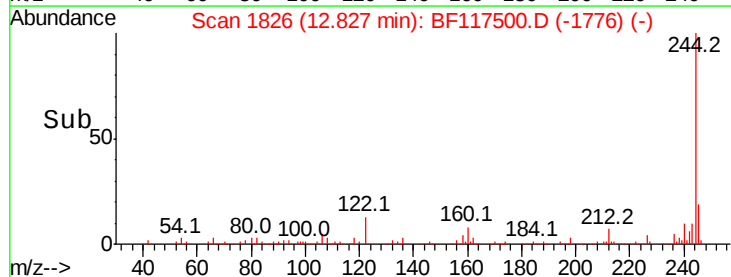
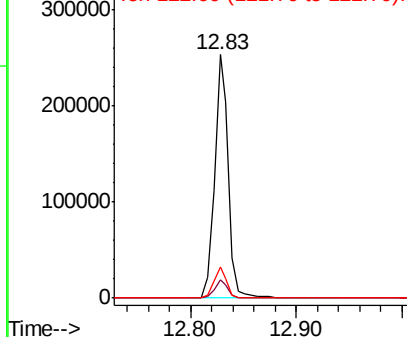


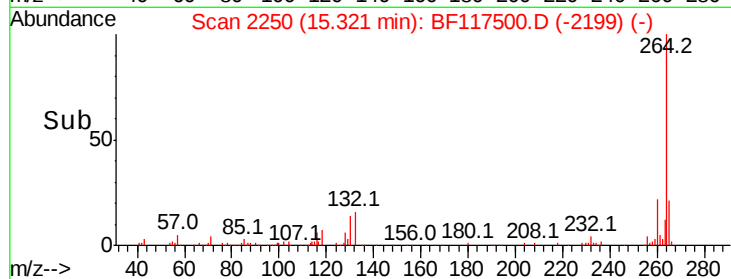
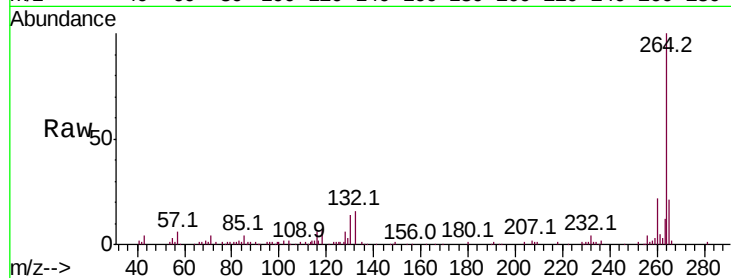
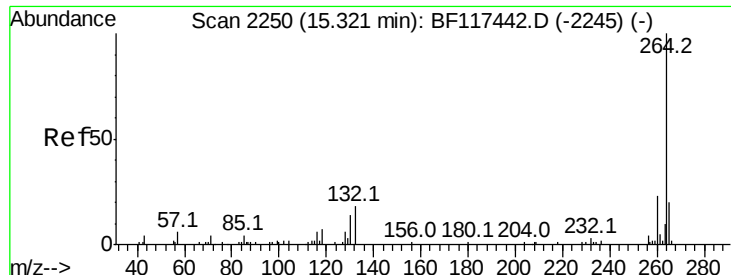
#79  
Terphenyl-d14  
Concen: 40.832 ng  
RT: 12.83 min Scan# 1826  
Delta R.T. -0.01 min  
Lab File: BF117500.D  
Acq: 23 Oct 2019 22:57

Tgt Ion:244 Resp: 233347  
Ion Ratio Lower Upper  
244 100  
212 7.3 5.8 8.6  
122 12.9 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  
 Pervlene-d12  
 Concen: 20.000 ng  
 RT: 15.32 min Scan# 2250  
 Delta R.T. 0.00 min  
 Lab File: BF117500.D  
 Acq: 23 Oct 2019 22:57

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 21.8  | 18.4  | 27.6  |
| 265     | 20.7  | 16.1  | 24.1  |

