

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091819\  
 Data File : BF117161.D  
 Acq On : 18 Sep 2019 22:40  
 Operator : HP/JU  
 Sample : K4942-10  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Sep 19 05:16:46 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

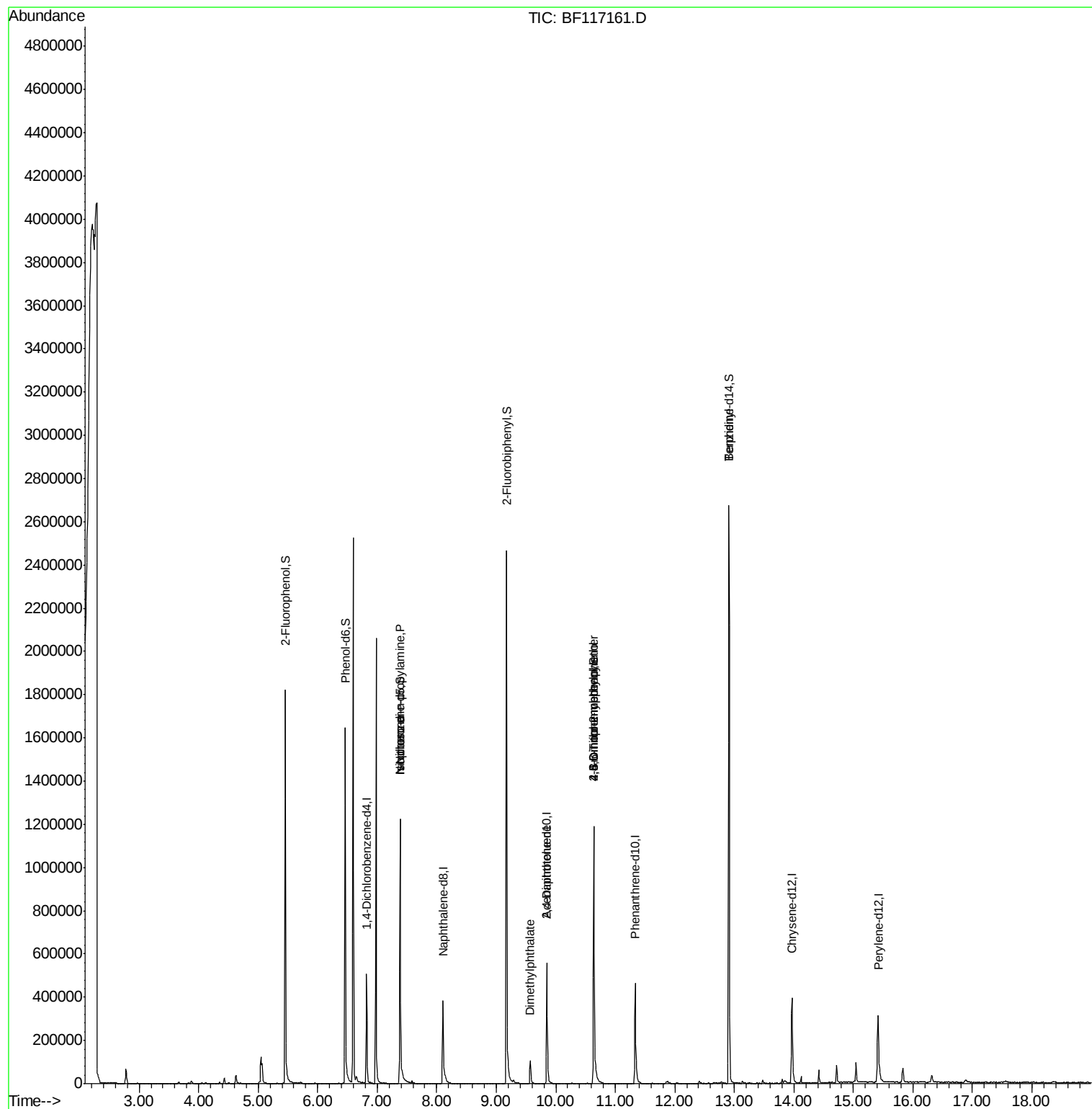
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min)   |
|--------------------------------|-------|------|----------|-----------|-------|------------|
| 1) 1,4-Dichlorobenzene-d4      | 6.82  | 152  | 74281    | 20.00     | ng    | 0.00       |
| 21) Naphthalene-d8             | 8.10  | 136  | 288945   | 20.00     | ng    | 0.00       |
| 39) Acenaphthene-d10           | 9.85  | 164  | 147575   | 20.00     | ng    | 0.00       |
| 64) Phenanthrene-d10           | 11.33 | 188  | 246020   | 20.00     | ng    | 0.00       |
| 76) Chrysene-d12               | 13.97 | 240  | 186892   | 20.00     | ng    | 0.00       |
| 87) Perylene-d12               | 15.42 | 264  | 177132   | 20.00     | ng    | 0.00       |
| System Monitoring Compounds    |       |      |          |           |       |            |
| 5) 2-Fluorophenol              | 5.46  | 112  | 548570   | 115.30    | ng    | 0.02       |
| 7) Phenol-d6                   | 6.46  | 99   | 643236   | 104.61    | ng    | 0.00       |
| 23) Nitrobenzene-d5            | 7.39  | 82   | 536888   | 97.63     | ng    | 0.00       |
| 42) 2,4,6-Tribromophenol       | 10.64 | 330  | 183436   | 148.73    | ng    | 0.00       |
| 45) 2-Fluorobiphenyl           | 9.17  | 172  | 957613   | 101.46    | ng    | 0.00       |
| 79) Terphenyl-d14              | 12.91 | 244  | 932633   | 93.28     | ng    | 0.00       |
| Target Compounds               |       |      |          |           |       |            |
| 9) Benzaldehyde                | 6.46  | 77   | 1036     | Below Cal |       | Qvalue # 1 |
| 19) n-Nitroso-di-n-propylamine | 7.39  | 70   | 70313    | 18.779    | ng    | # 78       |
| 25) Isophorone                 | 7.39  | 82   | 536885   | 55.139    | ng    | # 66       |
| 50) Dimethylphthalate          | 9.57  | 163  | 71334    | 6.827     | ng    | # 99       |
| 57) 2,4-Dinitrotoluene         | 9.85  | 165  | 18867    | 6.830     | ng    | # 18       |
| 65) 4,6-Dinitro-2-methylphenol | 10.64 | 198  | 279      | 7.115     | ng    | # 1        |
| 67) 4-Bromophenyl-phenylether  | 10.64 | 248  | 11687    | 4.652     | ng    | # 1        |
| 77) Benzidine                  | 12.91 | 184  | 13172    | 2.188     | ng    | # 95       |

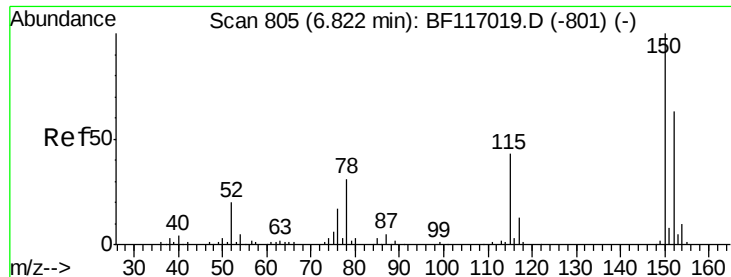
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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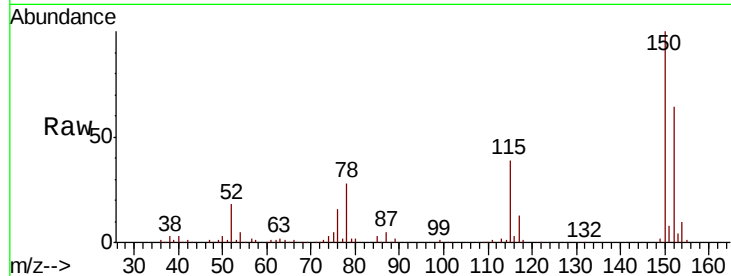


#1

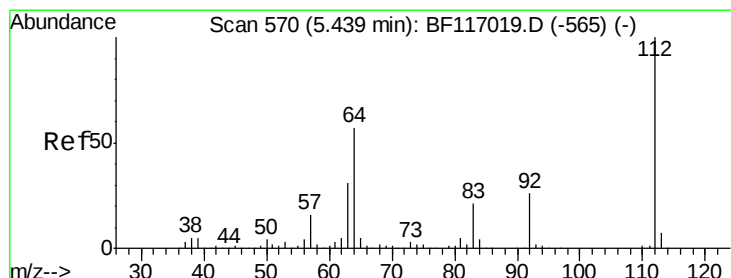
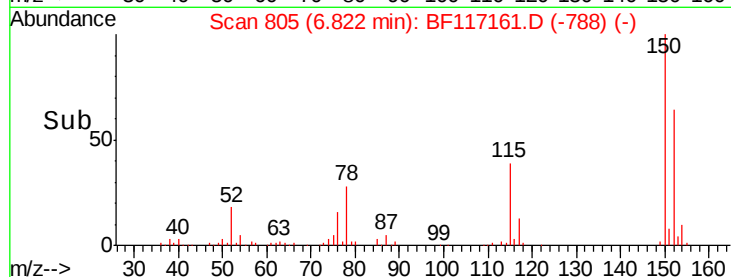
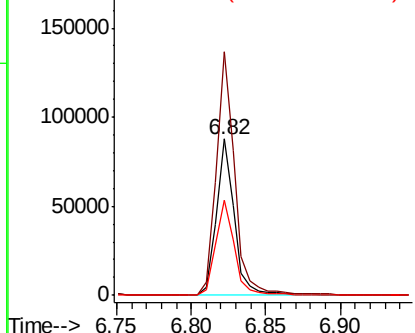
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.82 min Scan# 805  
Delta R.T. 0.00 min  
Lab File: BF117161.D  
Acq: 18 Sep 2019 22:40

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 74281  
Ion Ratio Lower Upper  
152 100  
150 155.6 127.5 191.3  
115 60.4 55.0 82.4



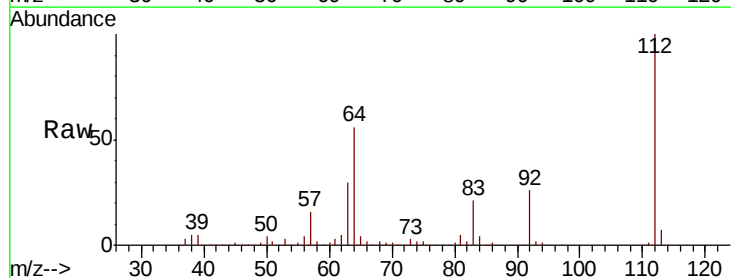
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



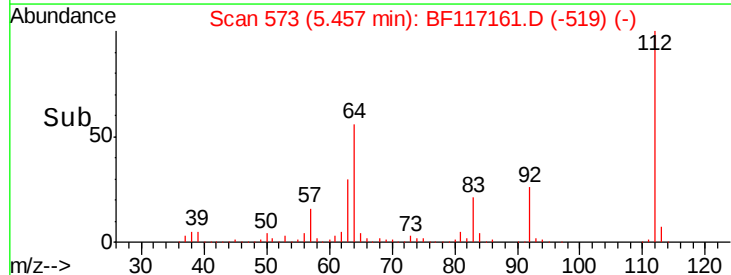
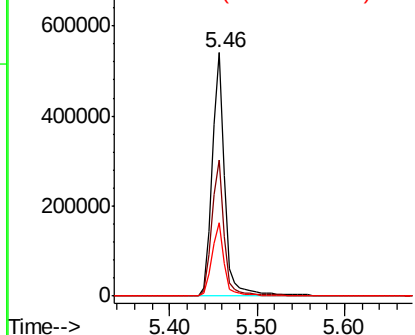
#5

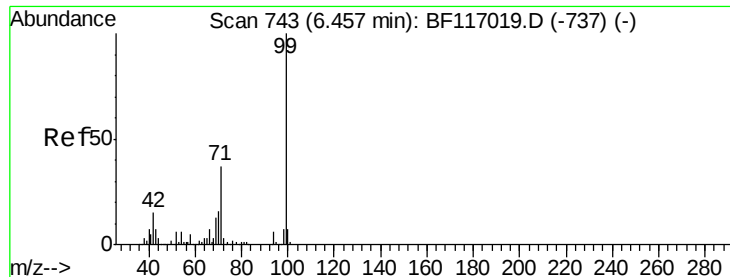
2-Fluorophenol  
Concen: 115.299 ng  
RT: 5.46 min Scan# 573  
Delta R.T. 0.02 min  
Lab File: BF117161.D  
Acq: 18 Sep 2019 22:40

Tgt Ion:112 Resp: 548570  
Ion Ratio Lower Upper  
112 100  
64 56.1 45.7 68.5  
63 30.0 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: 104.612 ng

RT: 6.46 min Scan# 744

Delta R.T. 0.01 min

Lab File: BF117161.D

Acq: 18 Sep 2019 22:40

Instrument :

BNA\_F

ClientSampleId :

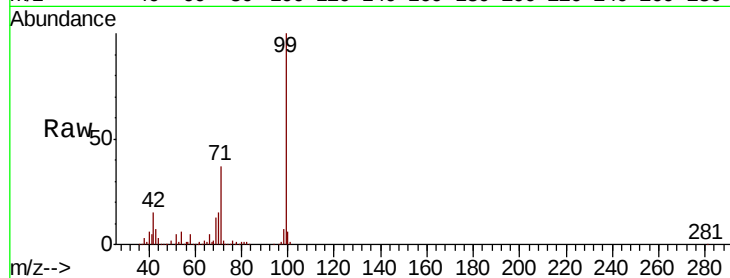
Tot Ion: 99 Resp: 643236

Ion Ratio Lower Upper

99 100

42 14.6 12.2 18.2

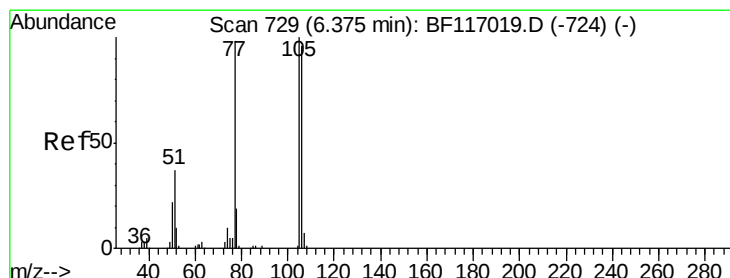
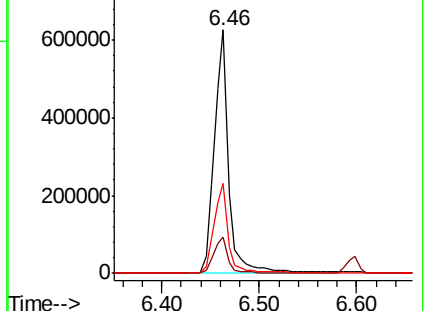
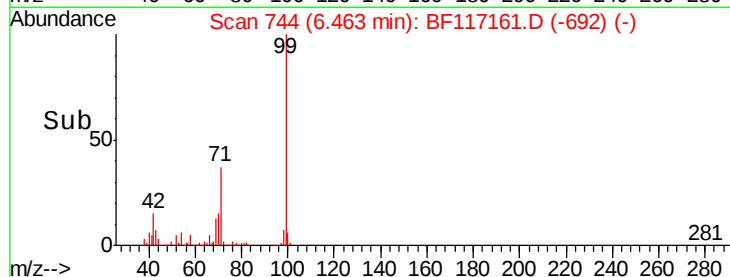
71 36.8 29.8 44.8



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: BF117161.D

Acq: 18 Sep 2019 22:40

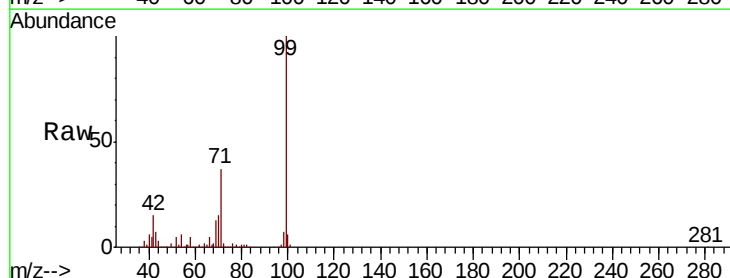
Tgt Ion: 77 Resp: 1036

Ion Ratio Lower Upper

77 100

105 0.0 81.8 121.8#

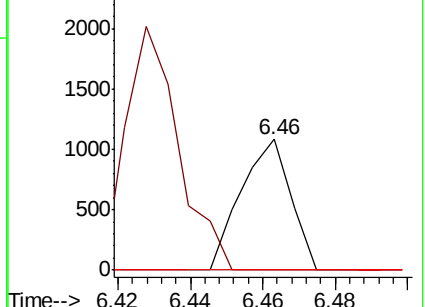
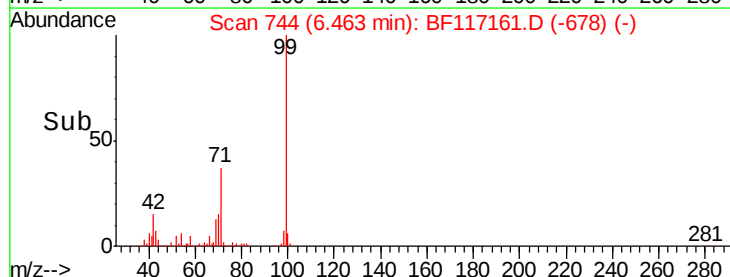
106 0.0 77.3 117.3#

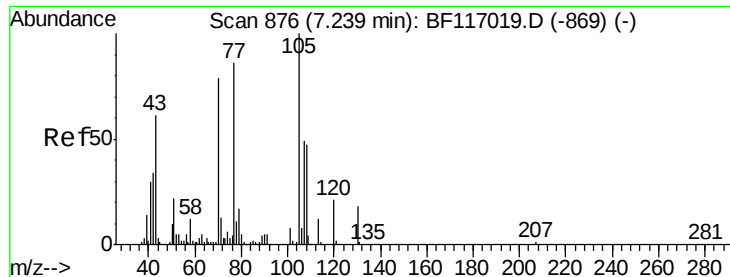


Abundance Ion 77.00 (76.70 to 77.70): BF1

Ion 105.00 (104.70 to 105.70): E

Ion 106.00 (105.70 to 106.70): E

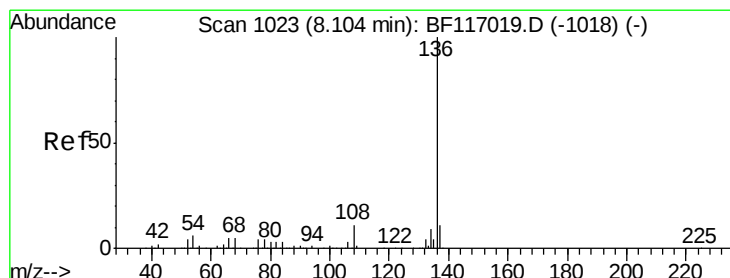
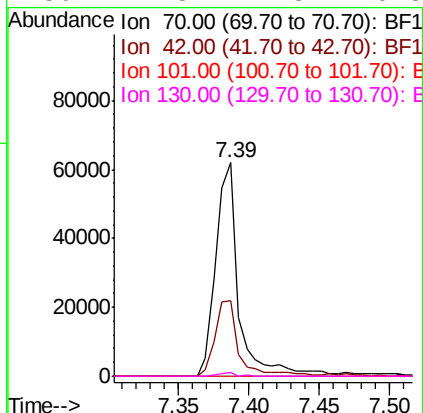
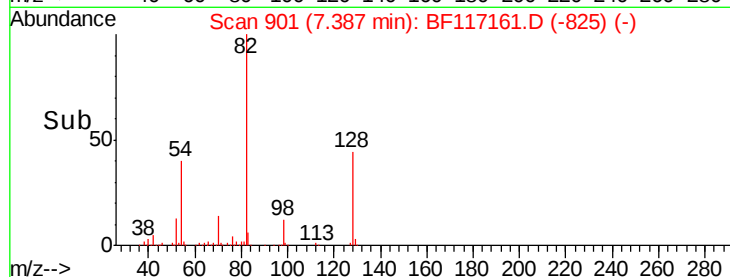
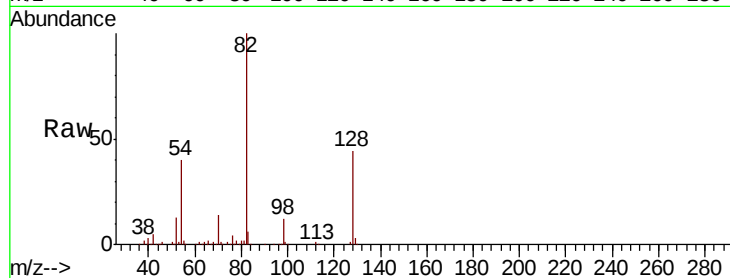




#19  
n-Nitroso-di-n-propylamine  
Concen: 18.779 ng  
RT: 7.39 min Scan# 901  
Delta R.T. 0.15 min  
Lab File: BF117161.D  
Acq: 18 Sep 2019 22:40

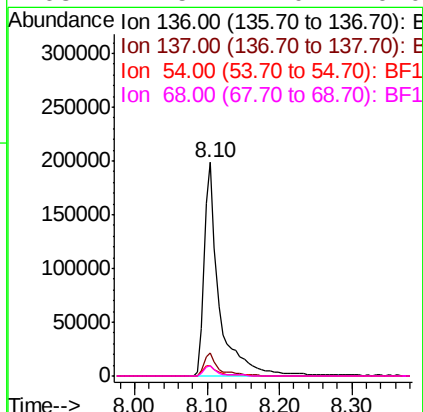
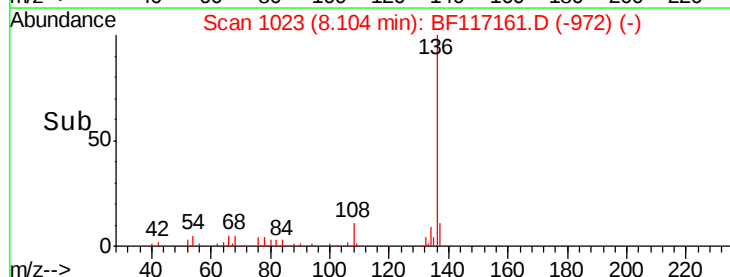
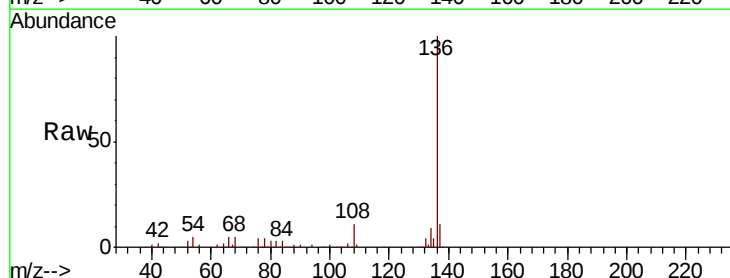
Instrument :  
BNA\_F  
ClientSampleId :

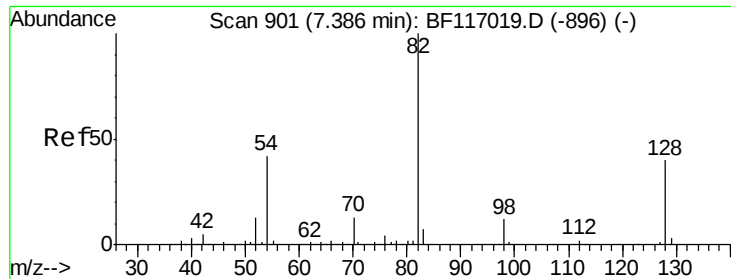
Tot Ion: 70 Resp: 70313  
Ion Ratio Lower Upper  
70 100  
42 35.6 34.0 51.0  
101 0.0 7.8 11.6#  
130 1.8 17.8 26.8#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.10 min Scan# 1023  
Delta R.T. 0.00 min  
Lab File: BF117161.D  
Acq: 18 Sep 2019 22:40

Tgt Ion: 136 Resp: 288945  
Ion Ratio Lower Upper  
136 100  
137 10.7 9.0 13.4  
54 4.8 4.5 6.7  
68 4.5 4.0 6.0

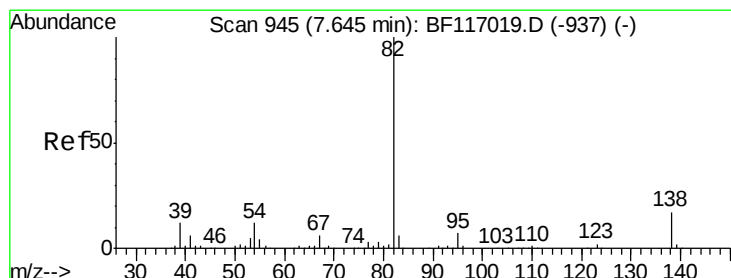
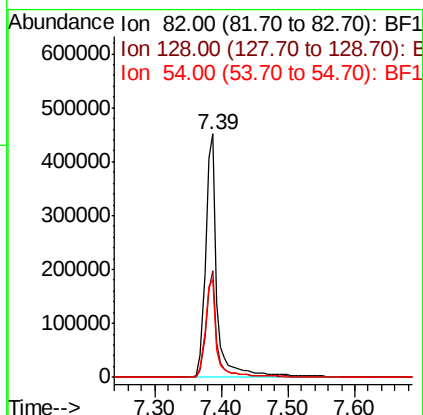
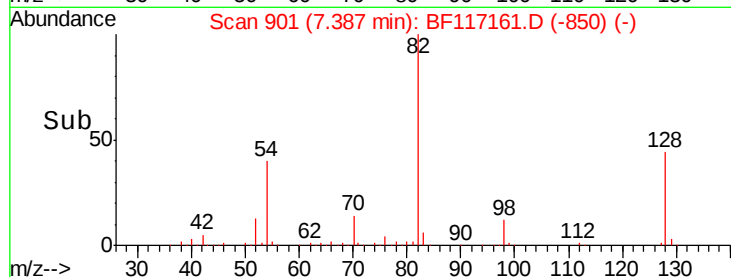
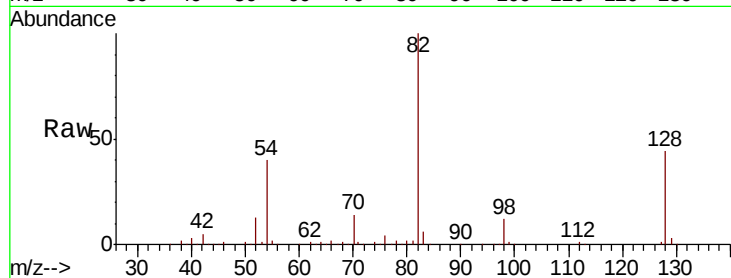




#23  
Nitrobenzene-d5  
Concen: 97.629 ng  
RT: 7.39 min Scan# 901  
Delta R.T. 0.00 min  
Lab File: BF117161.D  
Acq: 18 Sep 2019 22:40

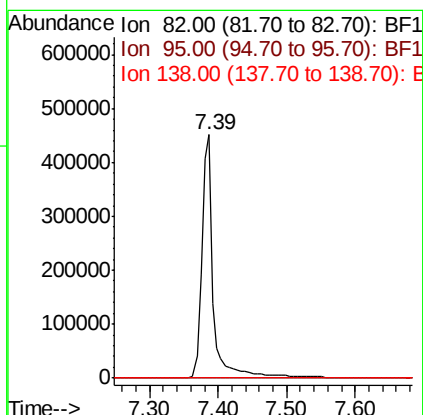
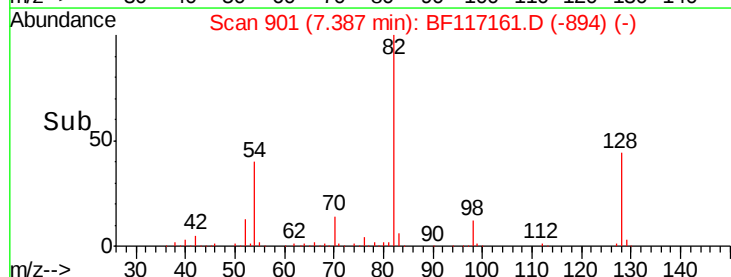
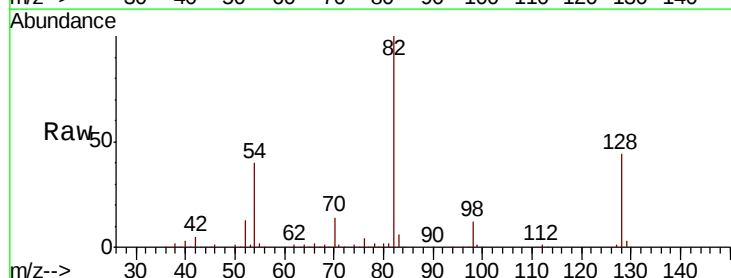
Instrument :  
BNA\_F  
ClientSampled :

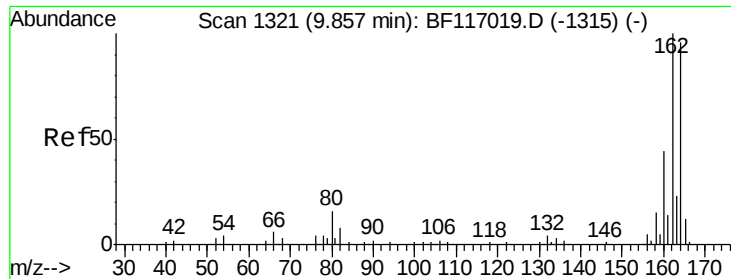
| Tot Ion   | 82    | Resp  | 536888 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 43.6  | 32.3  | 48.5   |
| 54        | 40.0  | 33.3  | 49.9   |



#25  
Isophorone  
Concen: 55.139 ng  
RT: 7.39 min Scan# 901  
Delta R.T. -0.26 min  
Lab File: BF117161.D  
Acq: 18 Sep 2019 22:40

| Tgt Ion   | 82    | Resp  | 536885 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 95        | 0.0   | 5.8   | 8.6#   |
| 138       | 0.0   | 13.5  | 20.3#  |





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.85 min Scan# 1320

Delta R.T. -0.01 min

Lab File: BF117161.D

Acq: 18 Sep 2019 22:40

Instrument :

BNA\_F

ClientSampleId :

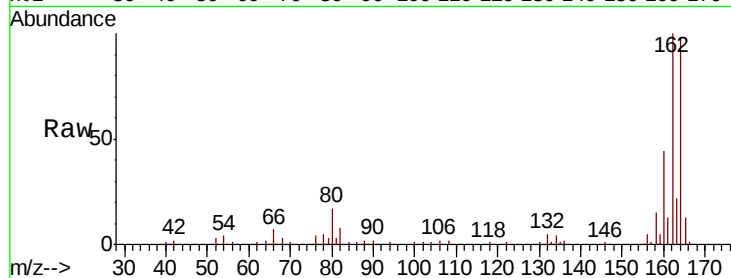
Tot Ion:164 Resp: 147575

Ion Ratio Lower Upper

164 100

162 102.4 83.4 125.2

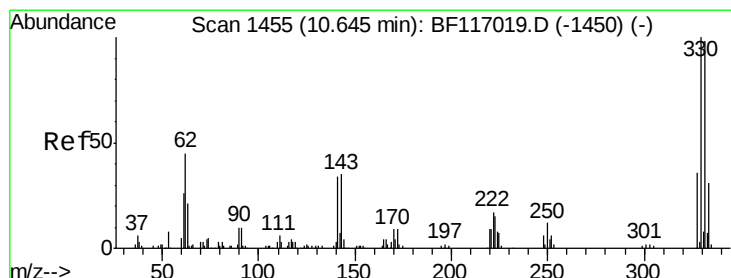
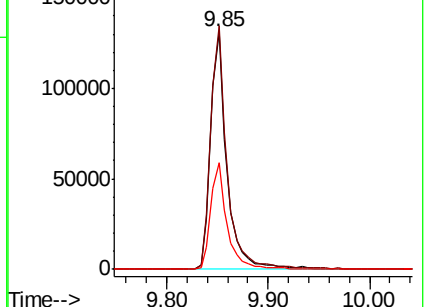
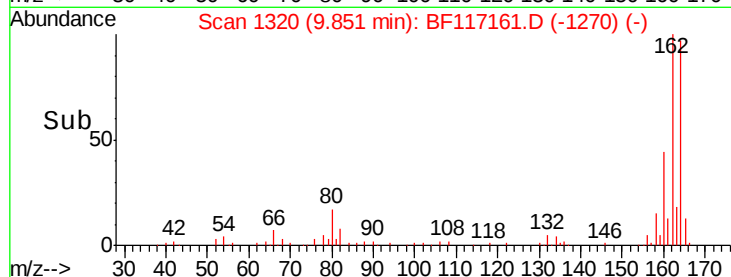
160 44.7 36.4 54.6



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: 148.725 ng

RT: 10.64 min Scan# 1454

Delta R.T. -0.01 min

Lab File: BF117161.D

Acq: 18 Sep 2019 22:40

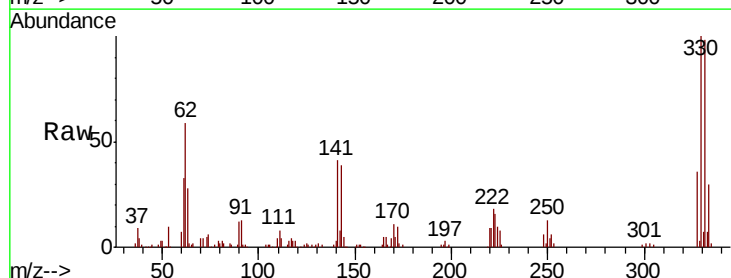
Tgt Ion:330 Resp: 183436

Ion Ratio Lower Upper

330 100

332 96.3 78.0 117.0

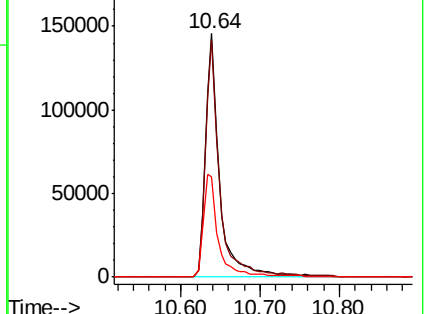
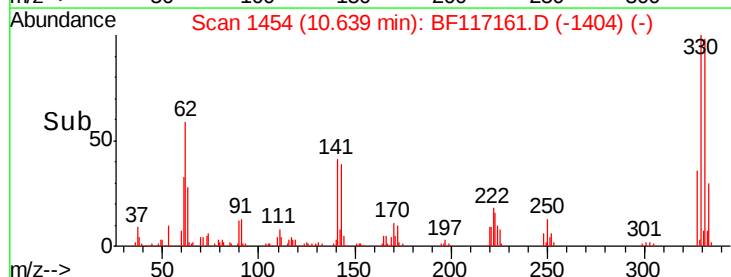
141 45.5 35.8 53.6

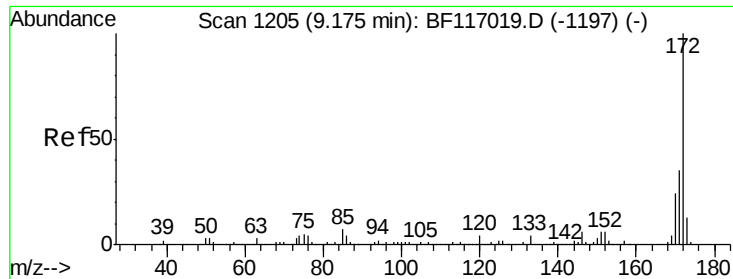


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

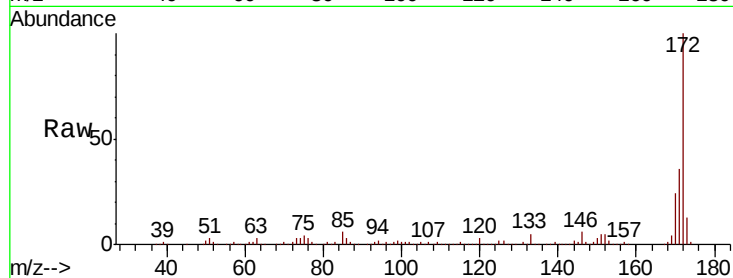




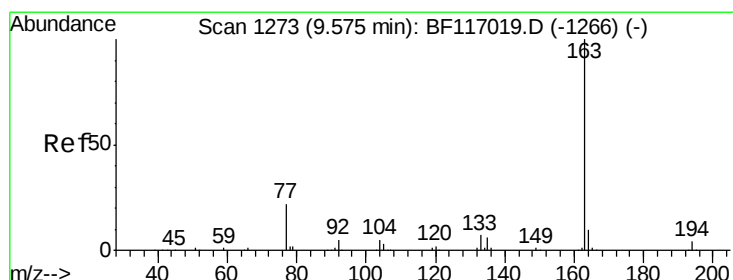
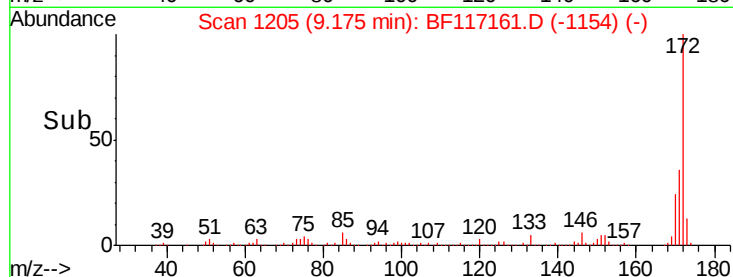
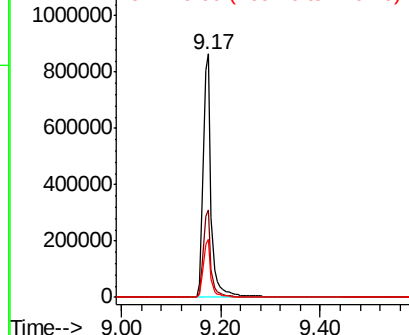
#45  
2-Fluorobiphenyl  
Concen: 101.460 ng  
RT: 9.17 min Scan# 1205  
Delta R.T. 0.00 min  
Lab File: BF117161.D  
Acq: 18 Sep 2019 22:40

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion:172 Resp: 957613  
Ion Ratio Lower Upper  
172 100  
171 35.7 28.2 42.2  
170 24.0 18.9 28.3

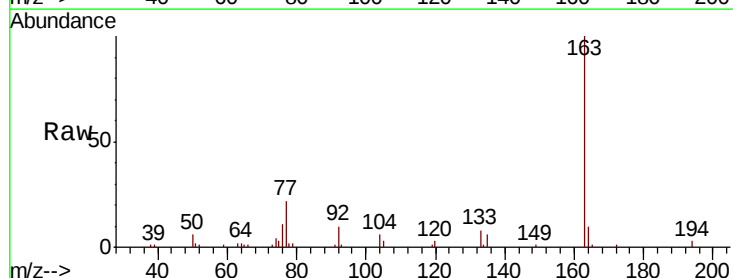


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

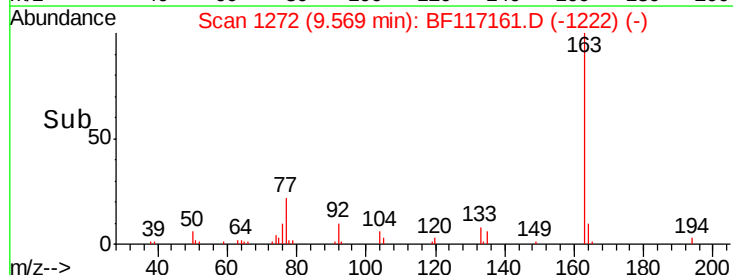
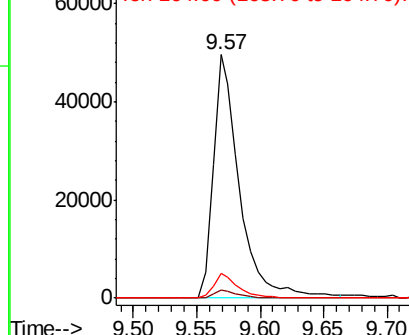


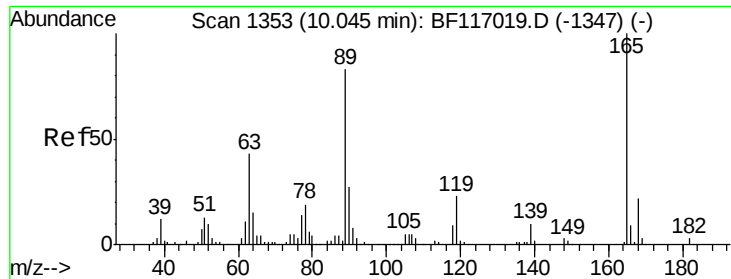
#50  
Dimethylphthalate  
Concen: 6.827 ng  
RT: 9.57 min Scan# 1272  
Delta R.T. -0.01 min  
Lab File: BF117161.D  
Acq: 18 Sep 2019 22:40

Tgt Ion:163 Resp: 71334  
Ion Ratio Lower Upper  
163 100  
194 3.3 2.9 4.3  
164 10.0 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

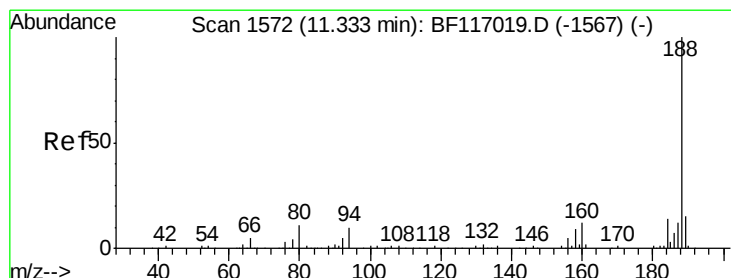
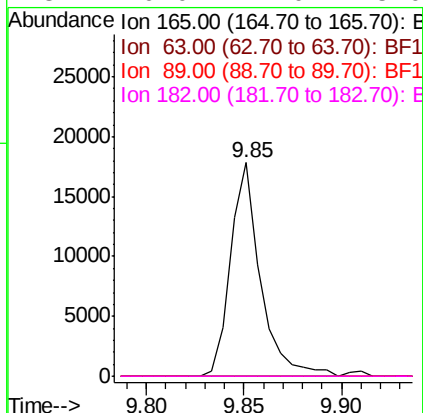
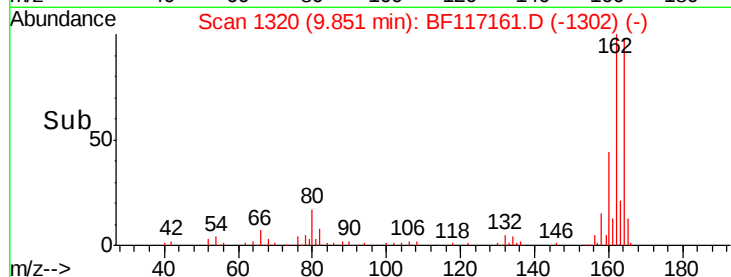
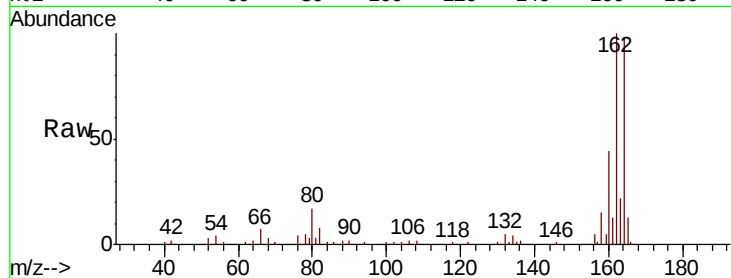




#57  
 2,4-Dinitrotoluene  
 Concen: 6.830 ng  
 RT: 9.85 min Scan# 1320  
 Delta R.T. -0.19 min  
 Lab File: BF117161.D  
 Acq: 18 Sep 2019 22:40

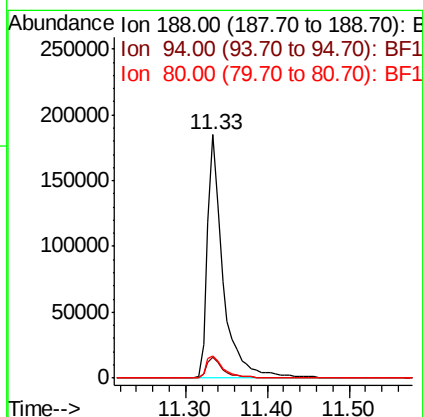
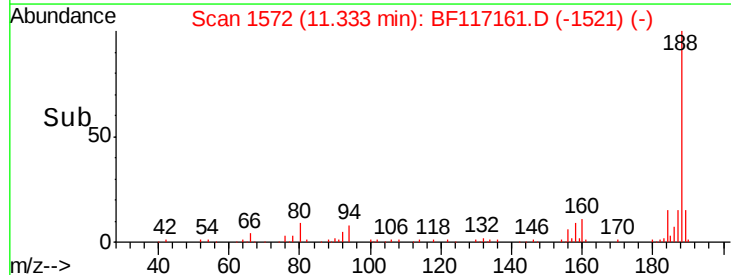
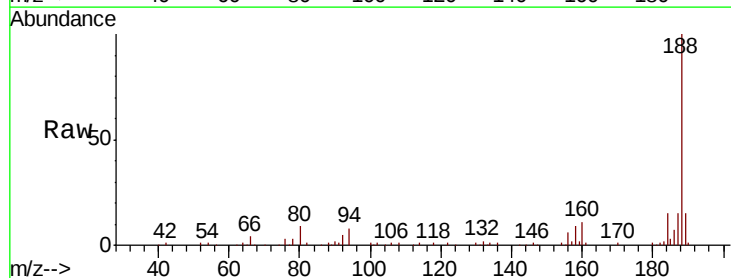
Instrument :  
 BNA\_F  
 ClientSampleId :

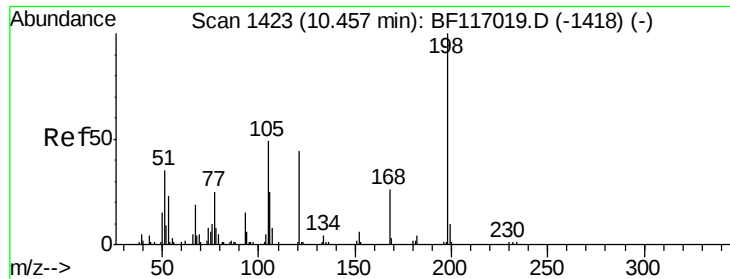
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 35.0  | 52.4# |
| 89      | 0.0   | 66.1  | 99.1# |
| 182     | 0.0   | 2.0   | 3.0#  |



#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.33 min Scan# 1572  
 Delta R.T. 0.00 min  
 Lab File: BF117161.D  
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| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 8.4   | 8.2   | 12.2  |
| 80      | 9.4   | 9.0   | 13.6  |

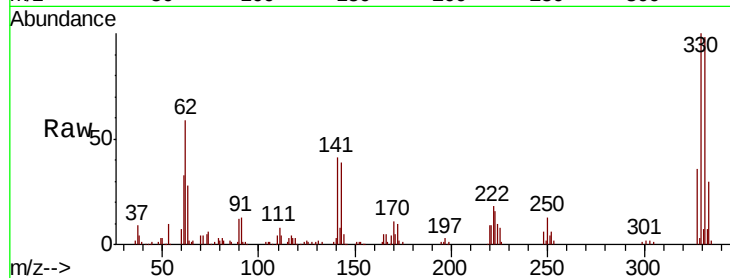




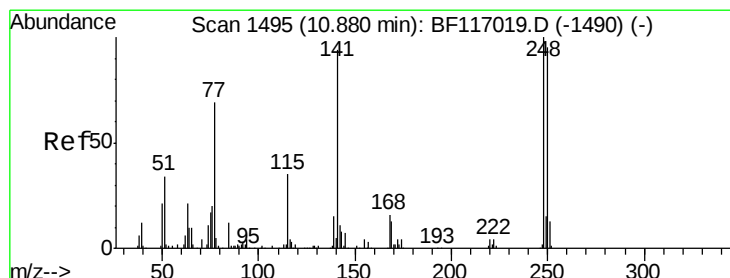
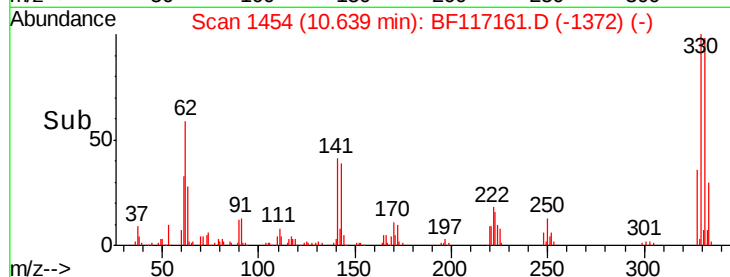
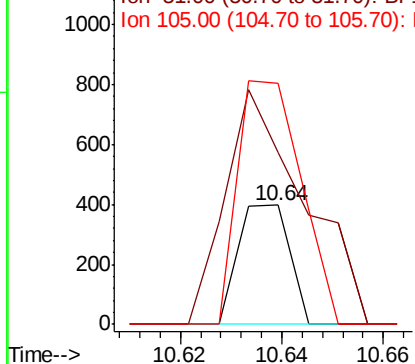
#65  
 4,6-Dinitro-2-methylphenol  
 Concen: 7.115 ng  
 RT: 10.64 min Scan# 1454  
 Delta R.T. 0.18 min  
 Lab File: BF117161.D  
 Acq: 18 Sep 2019 22:40

Instrument :  
 BNA\_F  
 ClientSampled :

Tot Ion:198 Resp: 279  
 Ion Ratio Lower Upper  
 198 100  
 51 144.8 18.7 58.7#  
 105 202.5 30.2 70.2#

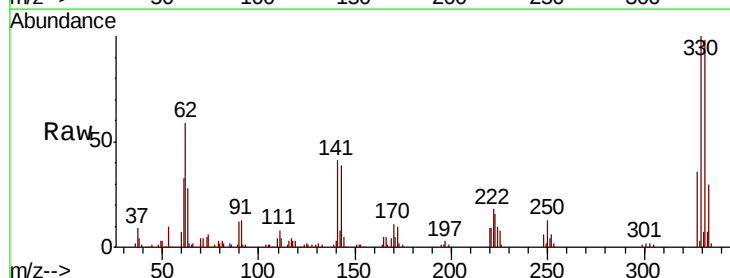


Abundance Ion 198.00 (197.70 to 198.70): E  
 Ion 51.00 (50.70 to 51.70): BF1  
 Ion 105.00 (104.70 to 105.70): E

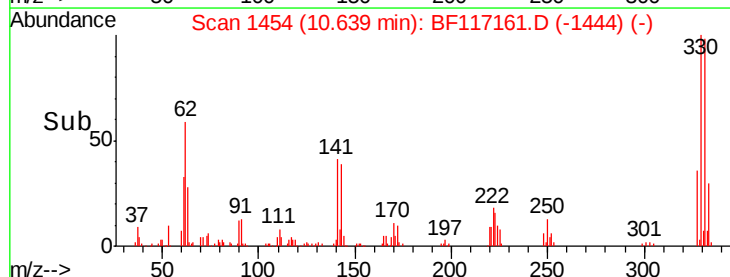
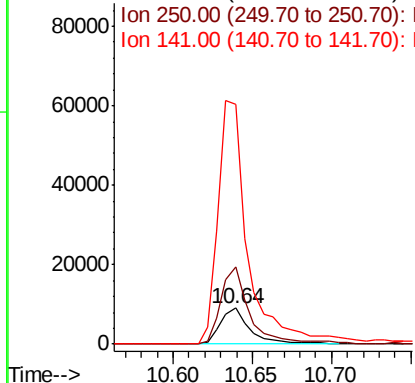


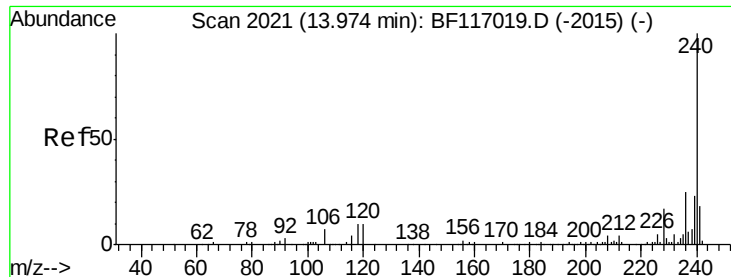
#67  
 4-Bromophenyl-phenylether  
 Concen: 4.652 ng  
 RT: 10.64 min Scan# 1454  
 Delta R.T. -0.24 min  
 Lab File: BF117161.D  
 Acq: 18 Sep 2019 22:40

Tgt Ion:248 Resp: 11687  
 Ion Ratio Lower Upper  
 248 100  
 250 212.3 76.2 114.4#  
 141 662.9 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

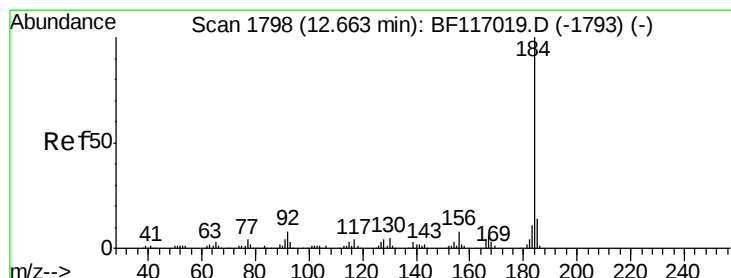
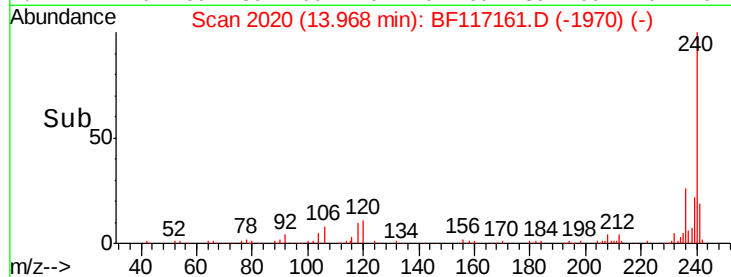
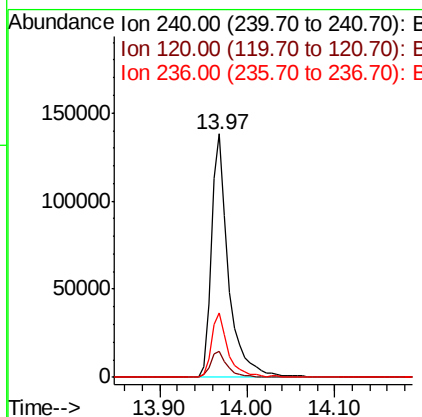
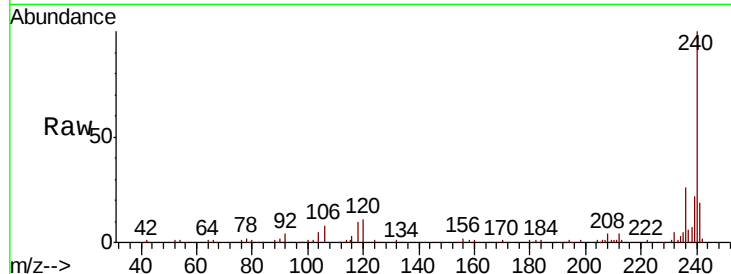




#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 13.97 min Scan# 2020  
 Delta R.T. -0.01 min  
 Lab File: BF117161.D  
 Acq: 18 Sep 2019 22:40

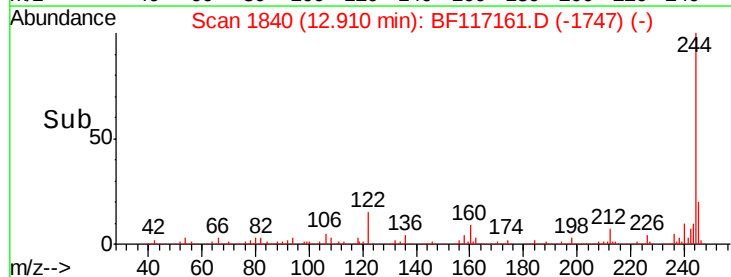
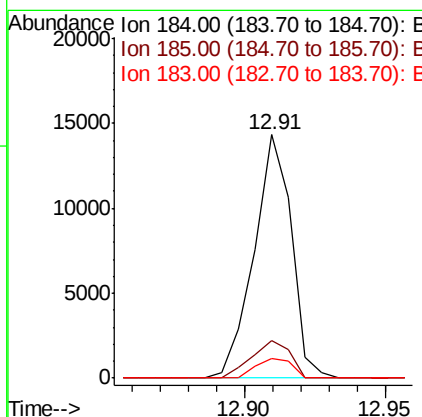
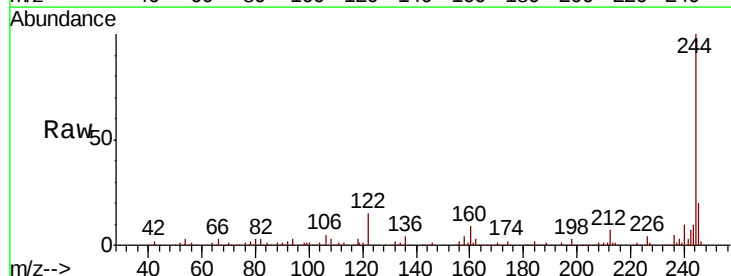
Instrument :  
 BNA\_F  
 ClientSampleId :

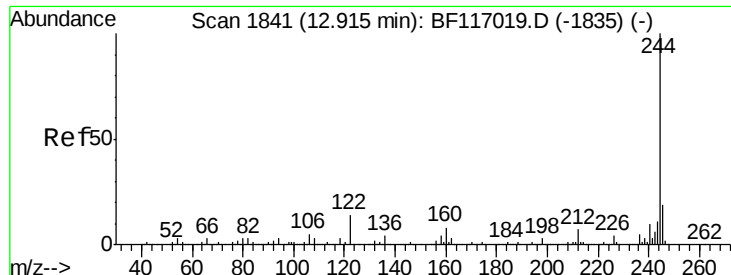
Tot Ion:240 Resp: 186892  
 Ion Ratio Lower Upper  
 240 100  
 120 10.6 8.3 12.5  
 236 26.5 20.3 30.5



#77  
 Benzidine  
 Concen: 2.188 ng  
 RT: 12.91 min Scan# 1840  
 Delta R.T. 0.25 min  
 Lab File: BF117161.D  
 Acq: 18 Sep 2019 22:40

Tgt Ion:184 Resp: 13172  
 Ion Ratio Lower Upper  
 184 100  
 185 15.3 11.6 17.4  
 183 8.0 9.0 13.4#

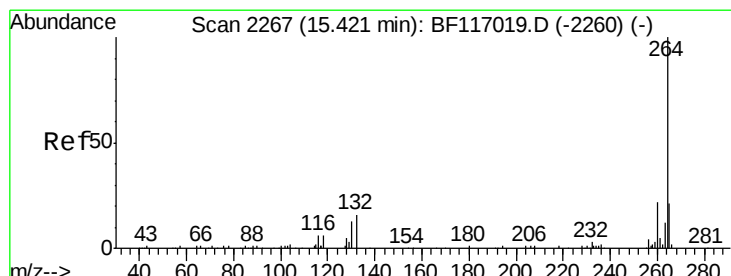
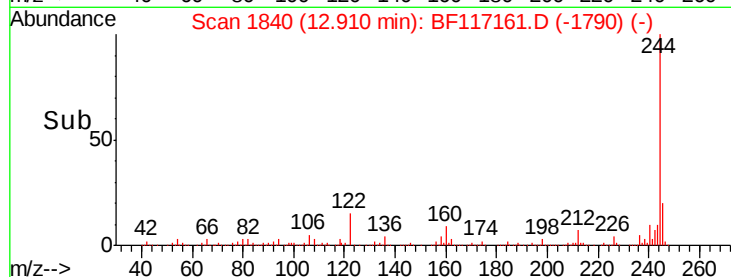
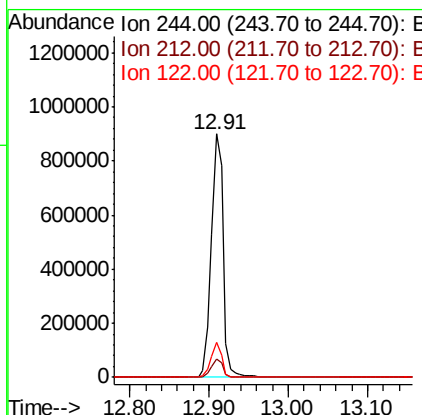
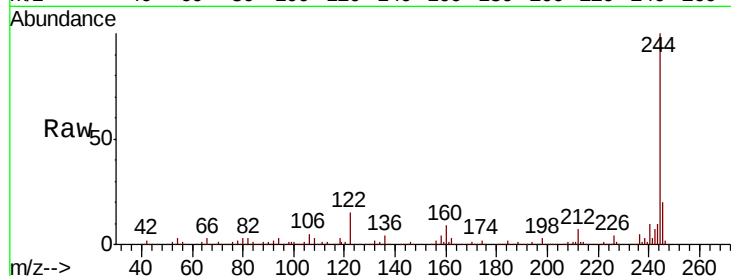




#79  
 Terphenyl-d14  
 Concen: 93.278 ng  
 RT: 12.91 min Scan# 1840  
 Delta R.T. -0.01 min  
 Lab File: BF117161.D  
 Acq: 18 Sep 2019 22:40

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:244 Resp: 932633  
 Ion Ratio Lower Upper  
 244 100  
 212 7.3 5.8 8.8  
 122 14.6 11.3 16.9



#87  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 15.42 min Scan# 2266  
 Delta R.T. -0.01 min  
 Lab File: BF117161.D  
 Acq: 18 Sep 2019 22:40

Tgt Ion:264 Resp: 177132  
 Ion Ratio Lower Upper  
 264 100  
 260 23.0 17.6 26.4  
 265 20.1 16.6 24.8

