

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091619\  
 Data File : BF117087.D  
 Acq On : 17 Sep 2019 3:18  
 Operator : HP/JU  
 Sample : K4878-19  
 Misc :  
 ALS Vial : 38 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Sep 17 05:19:06 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

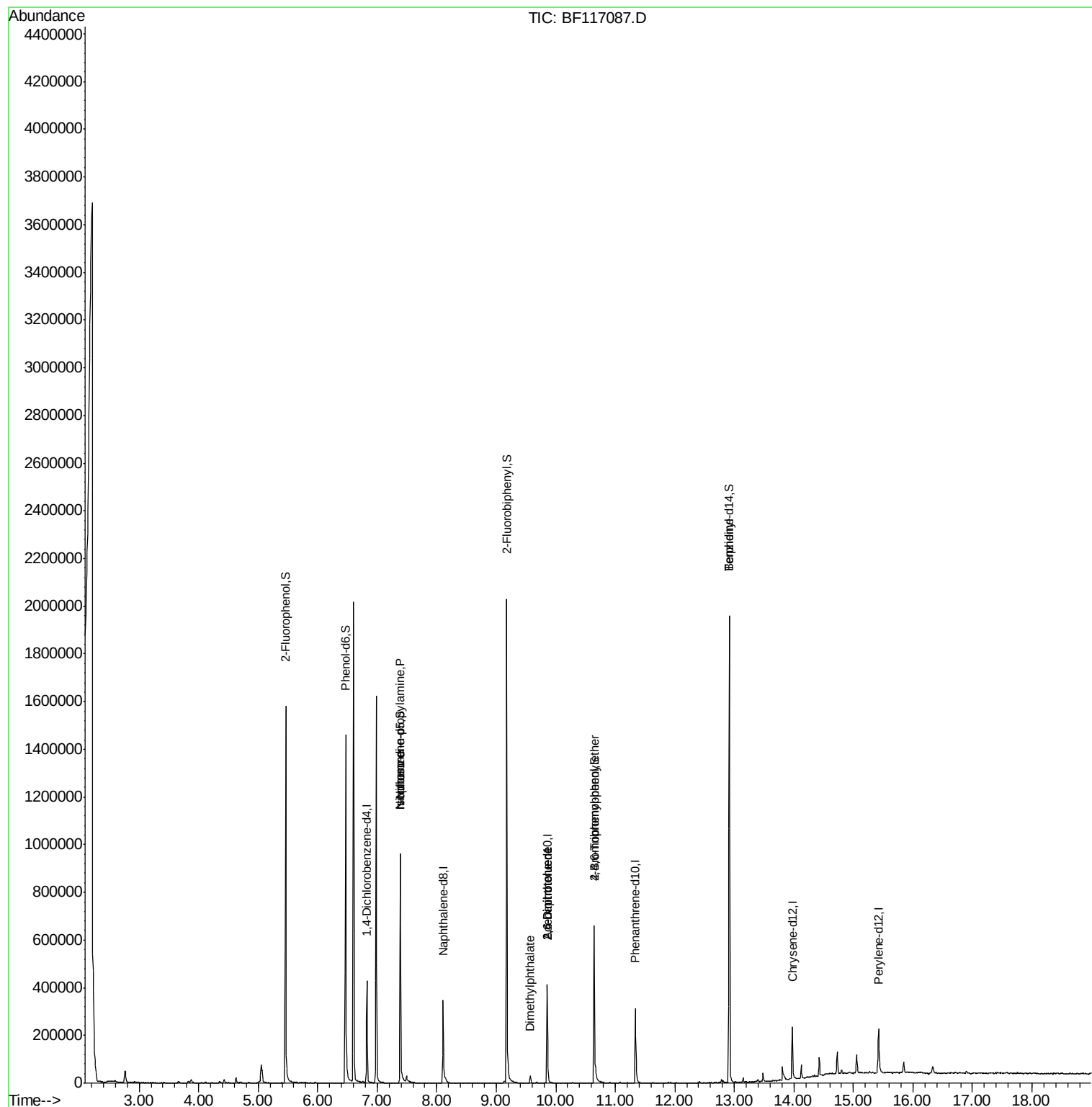
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.83  | 152  | 59958    | 20.00     | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.10  | 136  | 218740   | 20.00     | ng    | 0.00     |
| 39) Acenaphthene-d10           | 9.86  | 164  | 98434    | 20.00     | ng    | 0.00     |
| 64) Phenanthrene-d10           | 11.34 | 188  | 154021   | 20.00     | ng    | 0.00     |
| 76) Chrysene-d12               | 13.97 | 240  | 87357    | 20.00     | ng    | 0.00     |
| 87) Perylene-d12               | 15.42 | 264  | 68219    | 20.00     | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |           |       |          |
| 5) 2-Fluorophenol              | 5.46  | 112  | 458646   | 119.43    | ng    | 0.02     |
| 7) Phenol-d6                   | 6.47  | 99   | 547230   | 110.26    | ng    | 0.01     |
| 23) Nitrobenzene-d5            | 7.39  | 82   | 372252   | 89.42     | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol       | 10.64 | 330  | 100604   | 122.29    | ng    | 0.00     |
| 45) 2-Fluorobiphenyl           | 9.17  | 172  | 683762   | 108.61    | ng    | 0.00     |
| 79) Terphenyl-d14              | 12.92 | 244  | 606379   | 129.75    | ng    | 0.00     |
| Target Compounds               |       |      |          |           |       |          |
| 9) Benzaldehyde                | 6.60  | 77   | 12532    | Below Cal |       | 82       |
| 19) n-Nitroso-di-n-propylamine | 7.39  | 70   | 49133    | 16.257 ng | #     | 81       |
| 25) Isophorone                 | 7.39  | 82   | 372246   | 50.501 ng | #     | 66       |
| 50) Dimethylphthalate          | 9.57  | 163  | 18481    | 2.652 ng  |       | 97       |
| 51) 2,6-Dinitrotoluene         | 9.86  | 165  | 12128    | 8.544 ng  | #     | 25       |
| 57) 2,4-Dinitrotoluene         | 9.86  | 165  | 12128    | 6.582 ng  | #     | 20       |
| 67) 4-Bromophenyl-phenylether  | 10.64 | 248  | 6009     | 3.820 ng  | #     | 1        |
| 77) Benzidine                  | 12.92 | 184  | 8928     | 3.173 ng  | #     | 91       |

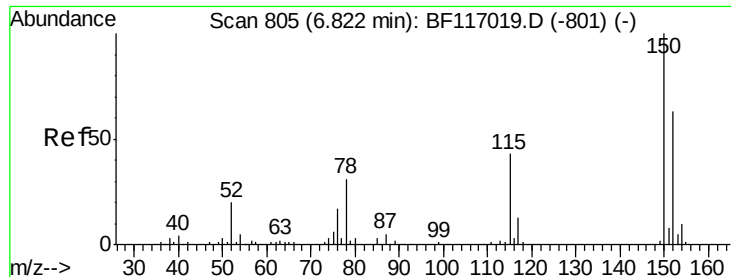
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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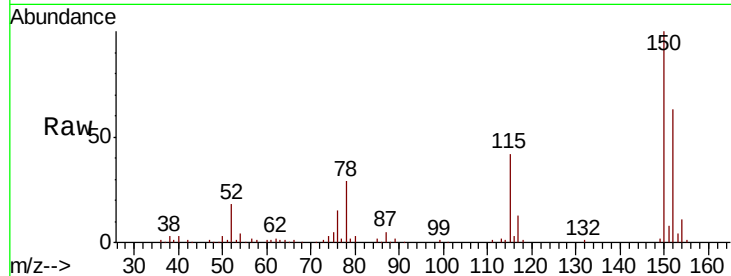


#1

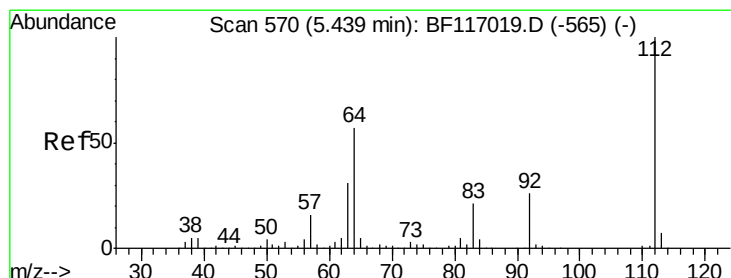
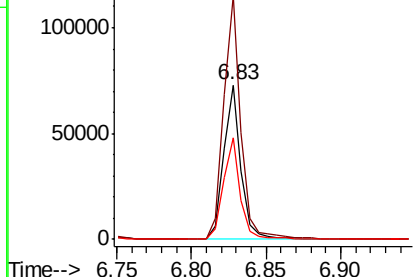
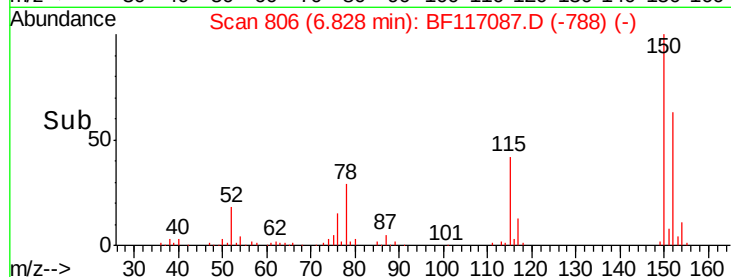
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.83 min Scan# 806  
Delta R.T. 0.01 min  
Lab File: BF117087.D  
Acq: 17 Sep 2019 3:18

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 59958  
Ion Ratio Lower Upper  
152 100  
150 157.8 127.5 191.3  
115 65.7 55.0 82.4



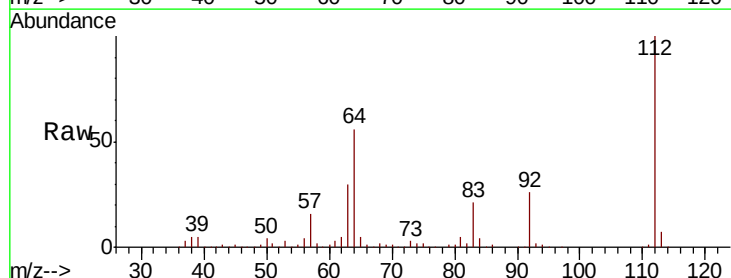
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



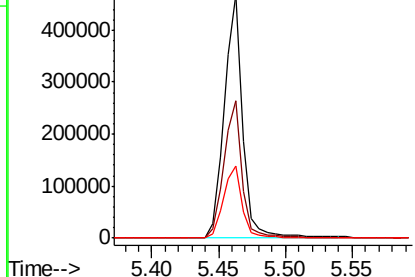
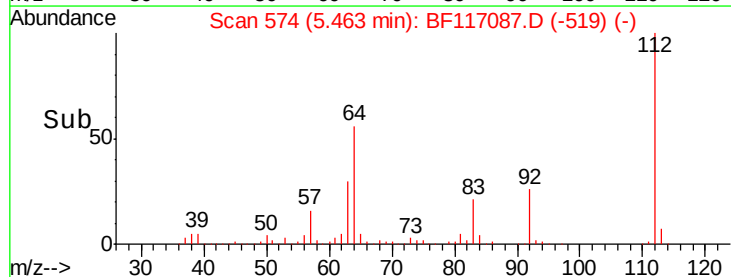
#5

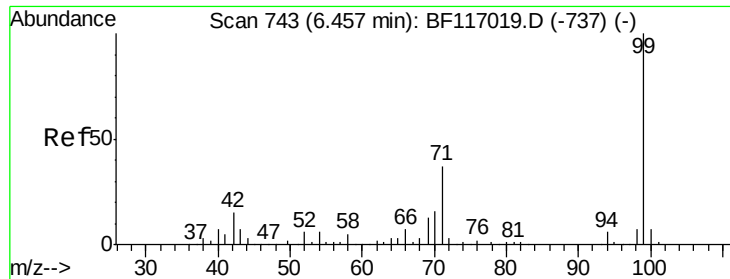
2-Fluorophenol  
Concen: 119.427 ng  
RT: 5.46 min Scan# 574  
Delta R.T. 0.02 min  
Lab File: BF117087.D  
Acq: 17 Sep 2019 3:18

Tgt Ion:112 Resp: 458646  
Ion Ratio Lower Upper  
112 100  
64 56.4 45.7 68.5  
63 29.7 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: 110.258 ng

RT: 6.47 min Scan# 745

Delta R.T. 0.01 min

Lab File: BF117087.D

Acq: 17 Sep 2019 3:18

Instrument :

BNA\_F

ClientSampleId :

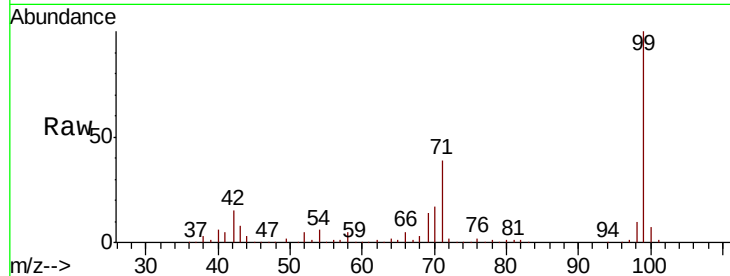
Tot Ion: 99 Resp: 547230

Ion Ratio Lower Upper

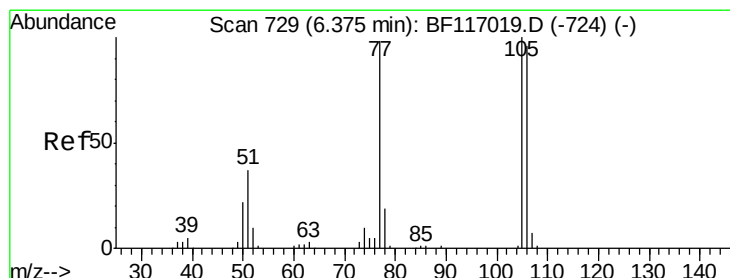
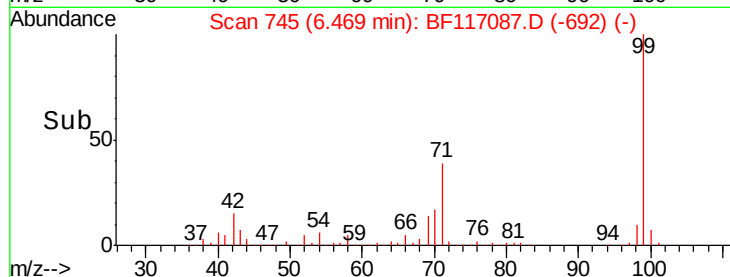
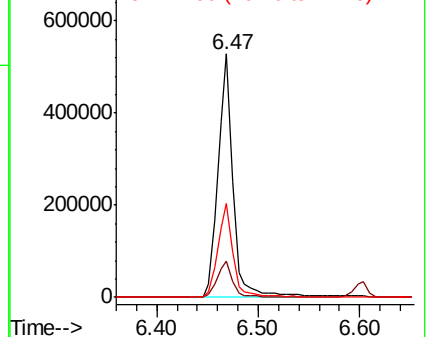
99 100

42 15.0 12.2 18.2

71 38.6 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: 6.60 min Scan# 768

Delta R.T. 0.23 min

Lab File: BF117087.D

Acq: 17 Sep 2019 3:18

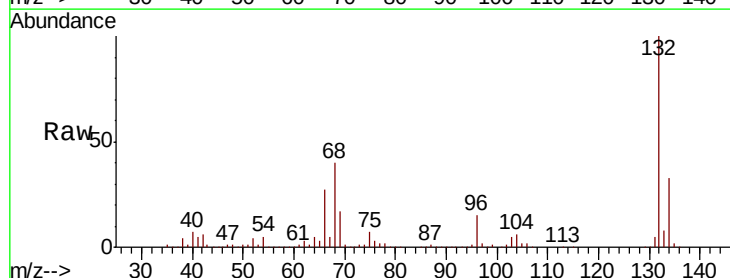
Tgt Ion: 77 Resp: 12532

Ion Ratio Lower Upper

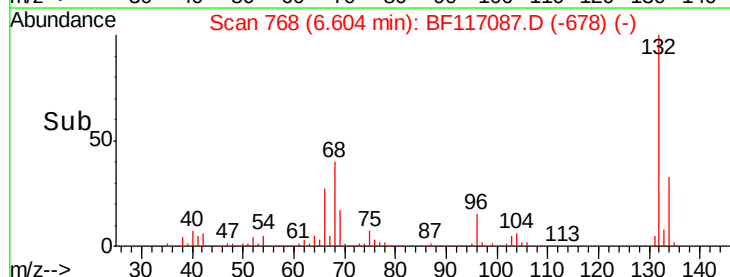
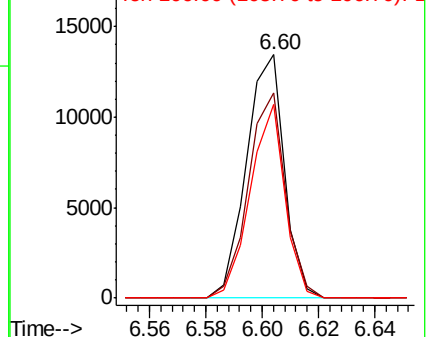
77 100

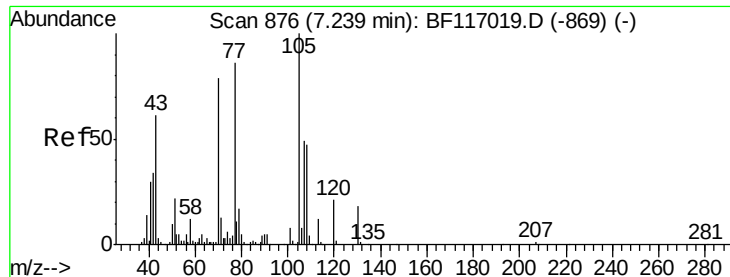
105 84.1 81.8 121.8

106 79.6 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: 16.257 ng

RT: 7.39 min Scan# 901

Delta R.T. 0.15 min

Lab File: BF117087.D

Acq: 17 Sep 2019 3:18

Instrument :

BNA\_F

ClientSampleId :

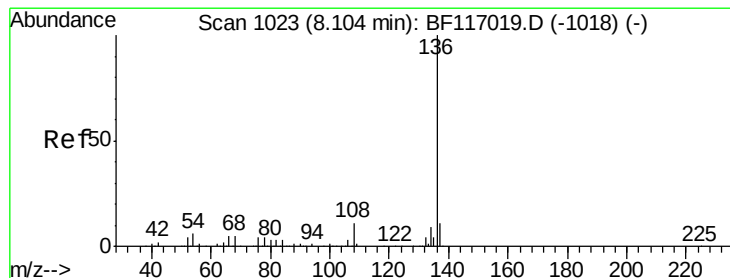
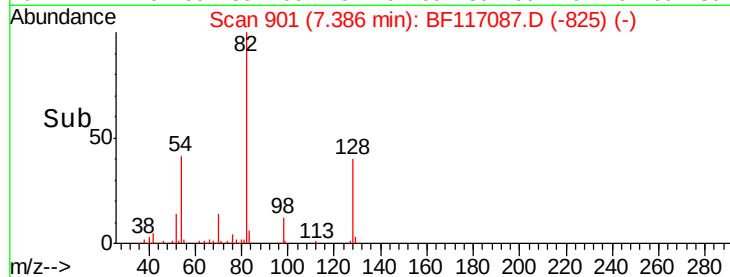
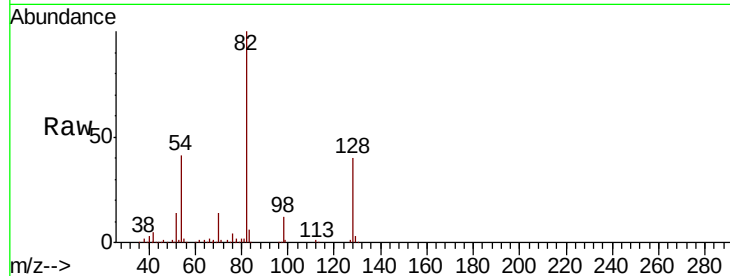
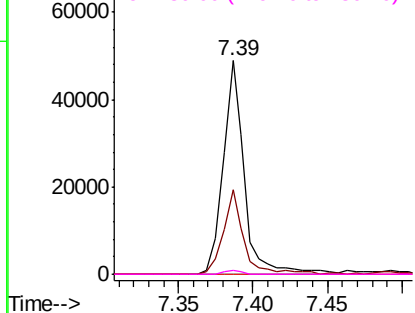
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 70    | Resp: | 49133 |
| Ion      | Ratio | Lower | Upper |
| 70       | 100   |       |       |
| 42       | 39.3  | 34.0  | 51.0  |
| 101      | 0.0   | 7.8   | 11.6# |
| 130      | 1.6   | 17.8  | 26.8# |

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: BF117087.D

Acq: 17 Sep 2019 3:18

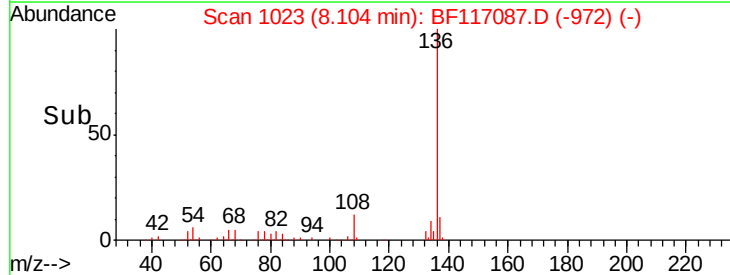
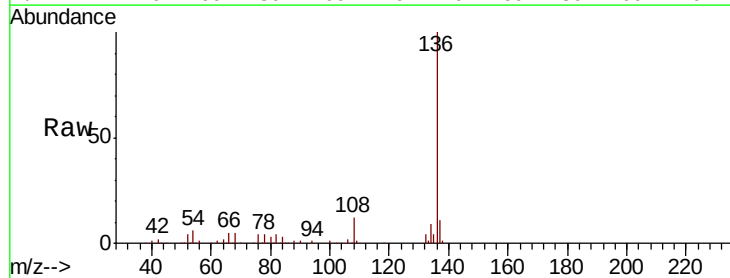
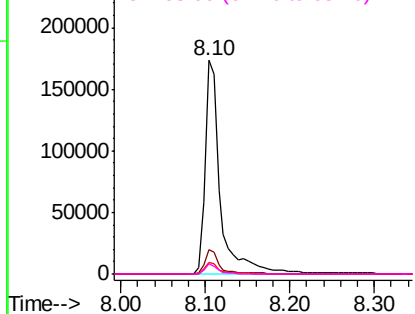
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 218740 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.3  | 9.0   | 13.4   |
| 54       | 5.6   | 4.5   | 6.7    |
| 68       | 5.0   | 4.0   | 6.0    |

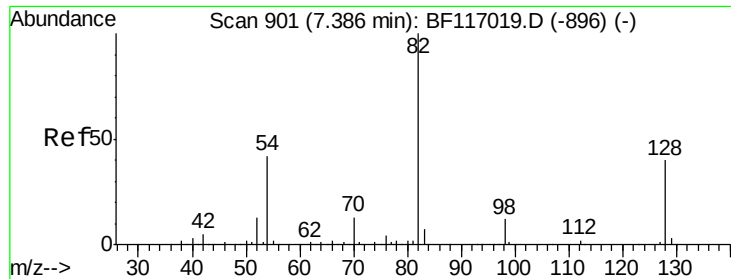
Abundance Ion 136.00 (135.70 to 136.70): E

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

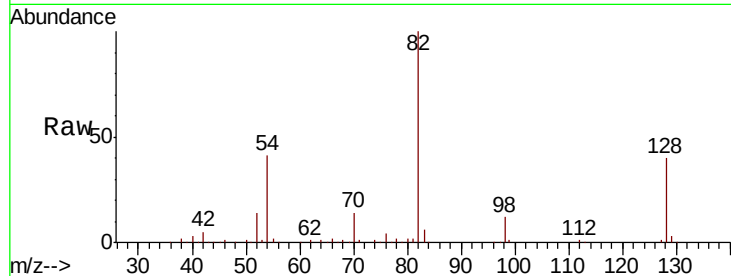




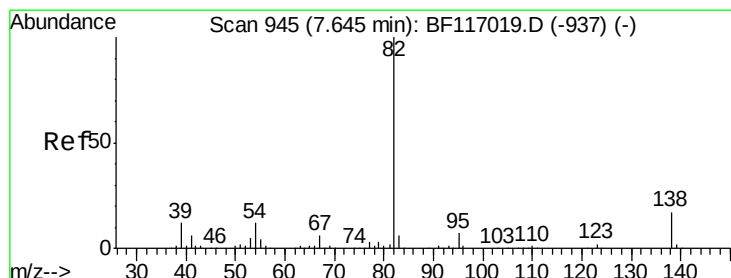
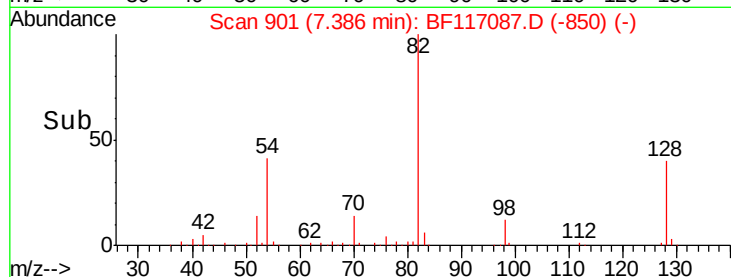
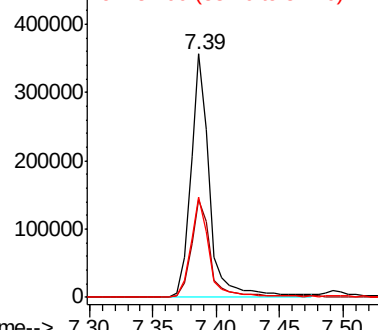
#23  
Nitrobenzene-d5  
Concen: 89.417 ng  
RT: 7.39 min Scan# 901  
Delta R.T. -0.00 min  
Lab File: BF117087.D  
Acq: 17 Sep 2019 3:18

Instrument :  
BNA\_F  
ClientSampled :

| Tot Ion   | 82    | Resp  | 372252 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 40.3  | 32.3  | 48.5   |
| 54        | 41.3  | 33.3  | 49.9   |

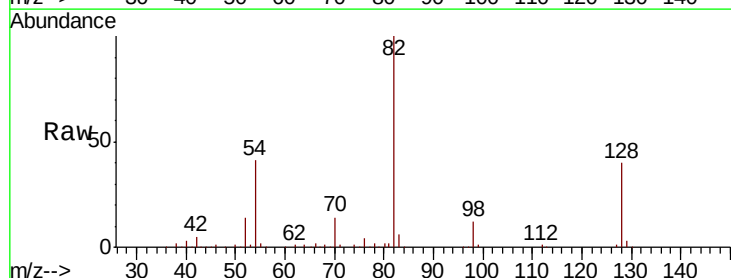


Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 128.00 (127.70 to 128.70): BF1  
Ion 54.00 (53.70 to 54.70): BF1

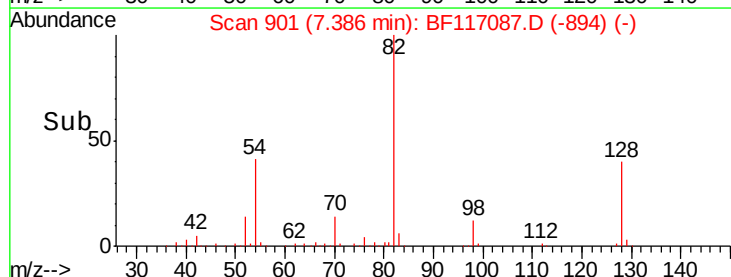
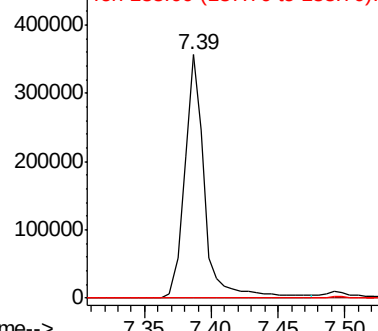


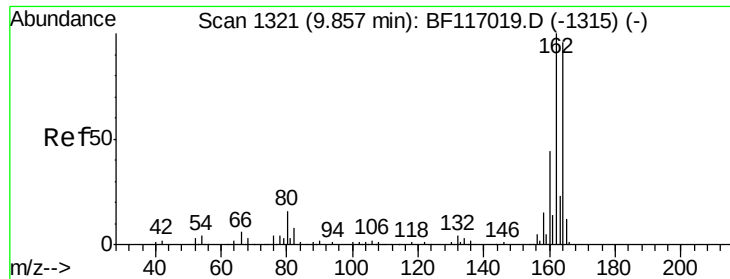
#25  
Isophorone  
Concen: 50.501 ng  
RT: 7.39 min Scan# 901  
Delta R.T. -0.26 min  
Lab File: BF117087.D  
Acq: 17 Sep 2019 3:18

| Tgt Ion   | 82    | Resp  | 372246 |
|-----------|-------|-------|--------|
| 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

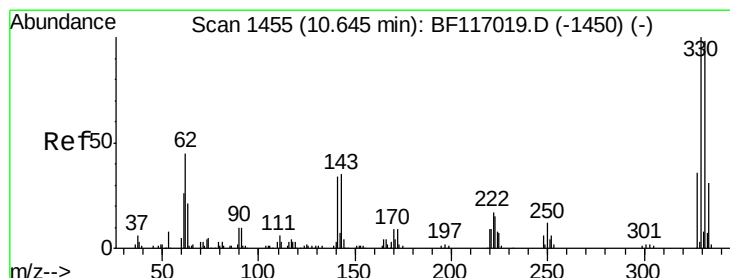
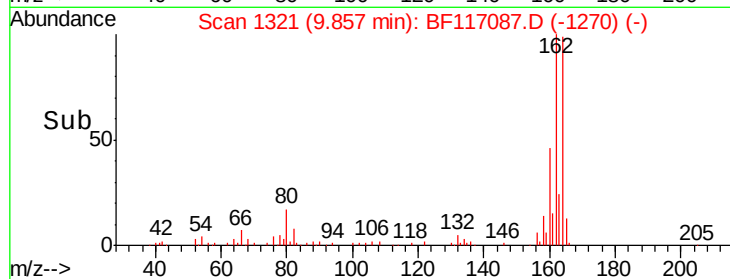
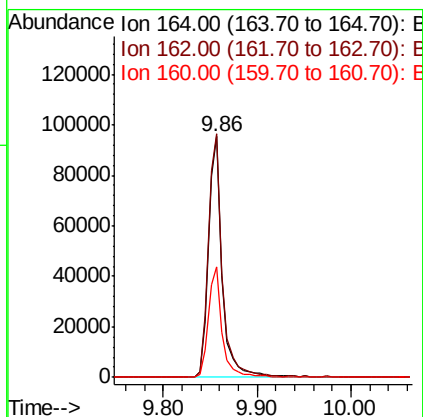
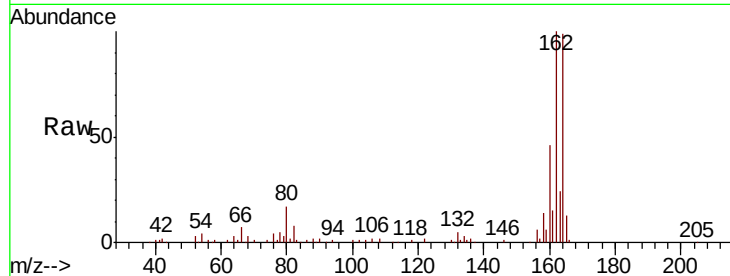




#39  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.86 min Scan# 1321  
 Delta R.T. -0.00 min  
 Lab File: BF117087.D  
 Acq: 17 Sep 2019 3:18

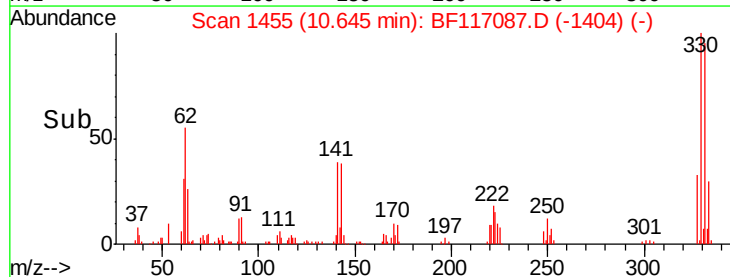
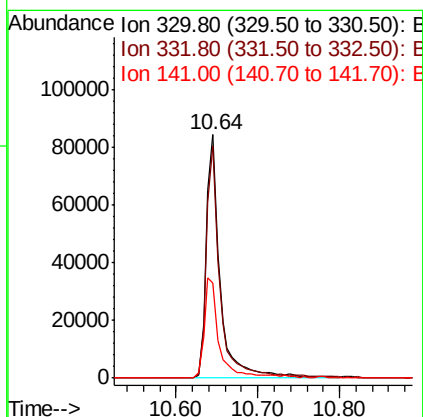
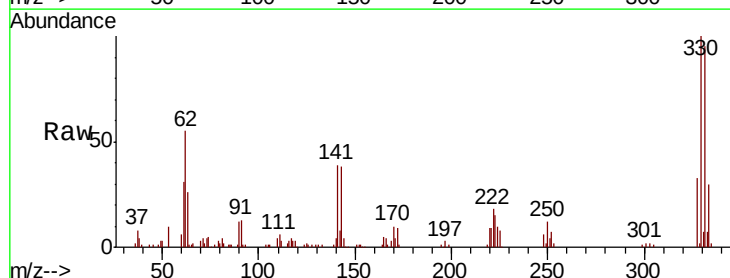
Instrument :  
 BNA\_F  
 ClientSampleId :

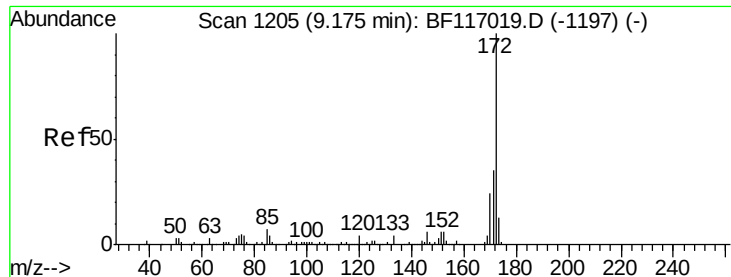
Tot Ion:164 Resp: 98434  
 Ion Ratio Lower Upper  
 164 100  
 162 101.1 83.4 125.2  
 160 46.1 36.4 54.6



#42  
 2,4,6-Tribromophenol  
 Concen: 122.288 ng  
 RT: 10.64 min Scan# 1455  
 Delta R.T. -0.00 min  
 Lab File: BF117087.D  
 Acq: 17 Sep 2019 3:18

Tgt Ion:330 Resp: 100604  
 Ion Ratio Lower Upper  
 330 100  
 332 94.8 78.0 117.0  
 141 44.3 35.8 53.6

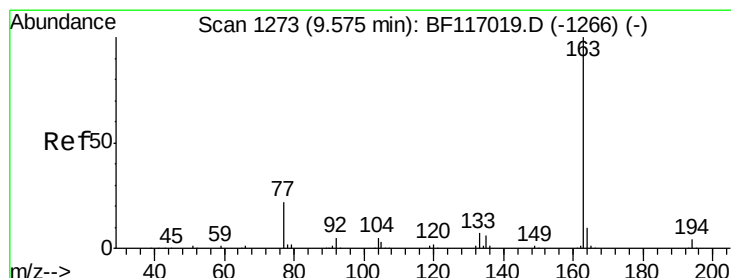
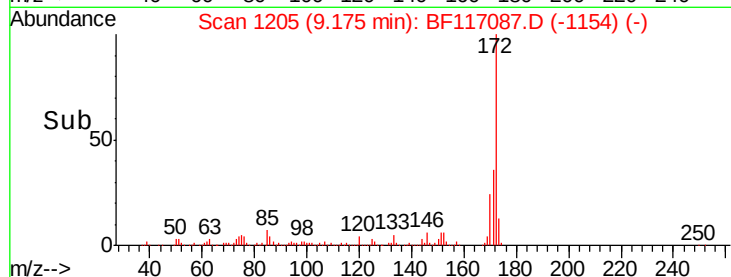
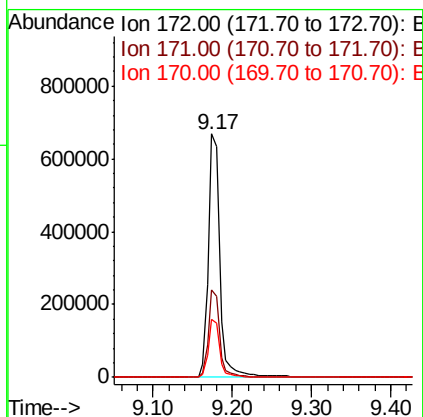
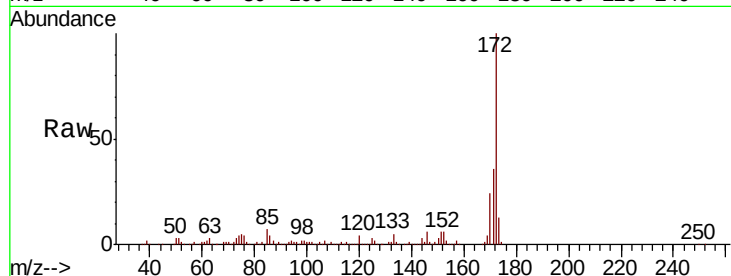




#45  
2-Fluorobiphenyl  
Concen: 108.612 ng  
RT: 9.17 min Scan# 1205  
Delta R.T. -0.00 min  
Lab File: BF117087.D  
Acq: 17 Sep 2019 3:18

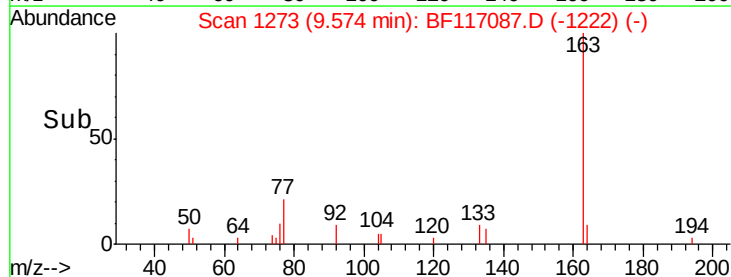
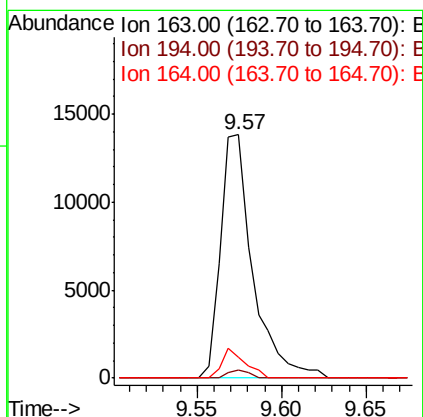
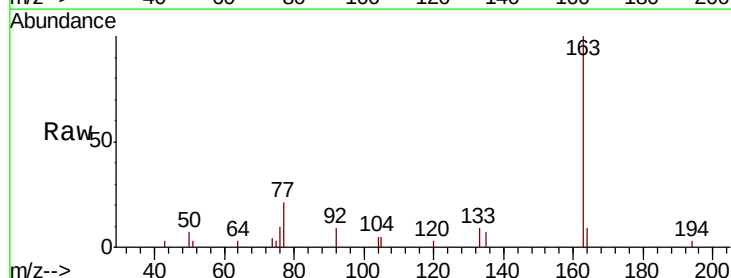
Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:172 Resp: 683762  
Ion Ratio Lower Upper  
172 100  
171 35.8 28.2 42.2  
170 23.8 18.9 28.3

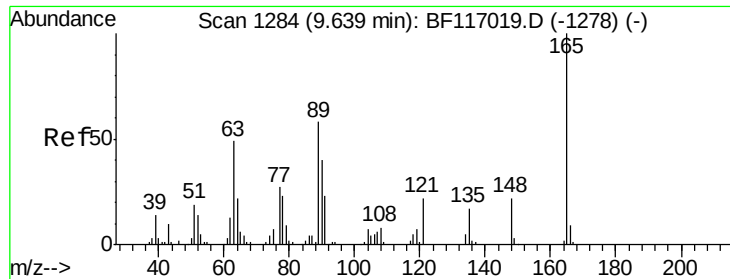


#50  
Dimethylphthalate  
Concen: 2.652 ng  
RT: 9.57 min Scan# 1273  
Delta R.T. -0.00 min  
Lab File: BF117087.D  
Acq: 17 Sep 2019 3:18

Tgt Ion:163 Resp: 18481  
Ion Ratio Lower Upper  
163 100  
194 3.3 2.9 4.3  
164 8.7 8.2 12.4



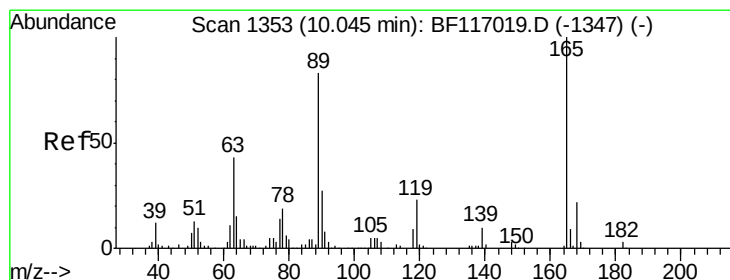
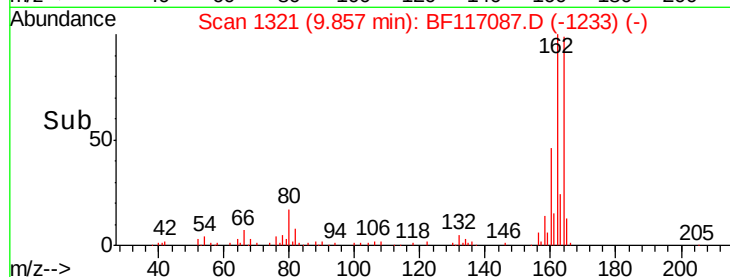
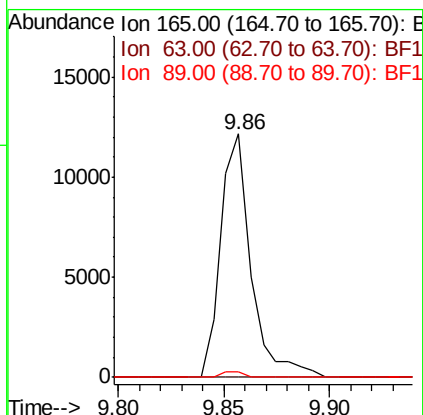
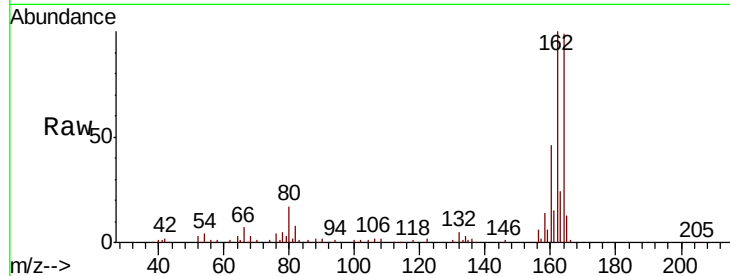




#51  
 2,6-Dinitrotoluene  
 Concen: 8.544 ng  
 RT: 9.86 min Scan# 1321  
 Delta R.T. 0.22 min  
 Lab File: BF117087.D  
 Acq: 17 Sep 2019 3:18

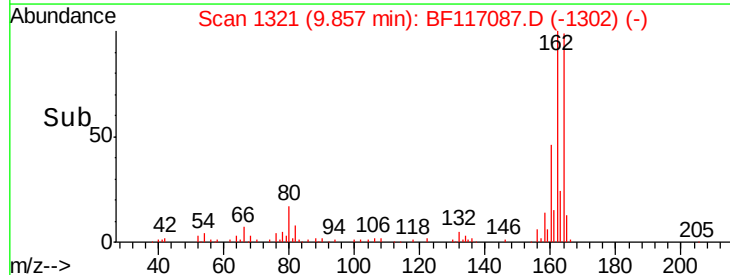
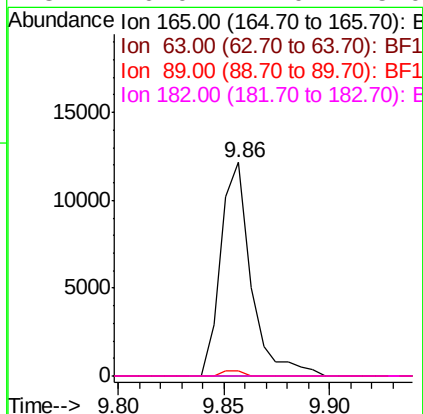
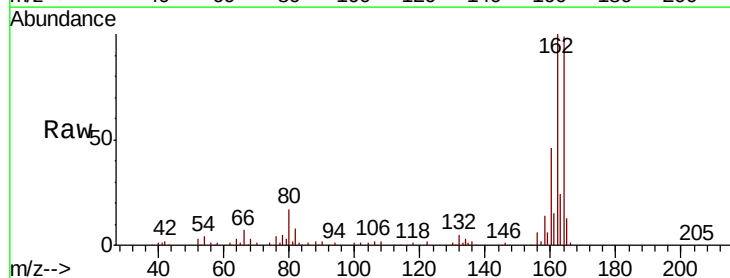
Instrument :  
 BNA\_F  
 ClientSampleId :

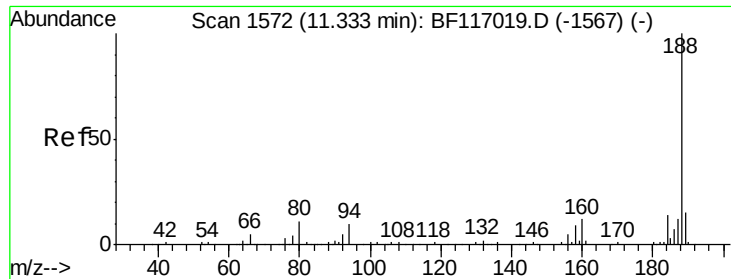
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 41.8  | 62.8# |
| 89      | 2.5   | 46.5  | 69.7# |



#57  
 2,4-Dinitrotoluene  
 Concen: 6.582 ng  
 RT: 9.86 min Scan# 1321  
 Delta R.T. -0.19 min  
 Lab File: BF117087.D  
 Acq: 17 Sep 2019 3:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 35.0  | 52.4# |
| 89      | 2.5   | 66.1  | 99.1# |
| 182     | 0.0   | 2.0   | 3.0#  |





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.34 min Scan# 1573

Delta R.T. 0.01 min

Lab File: BF117087.D

Acq: 17 Sep 2019 3:18

Instrument :

BNA\_F

ClientSampled :

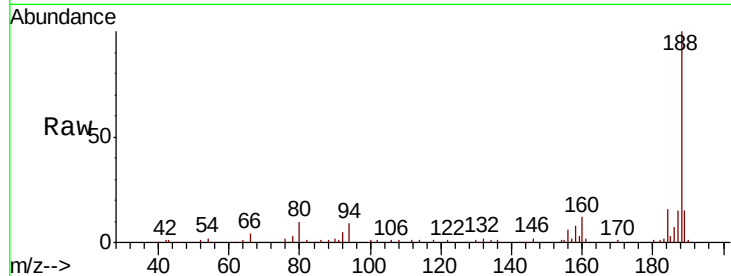
Tot Ion:188 Resp: 154021

Ion Ratio Lower Upper

188 100

94 9.0 8.2 12.2

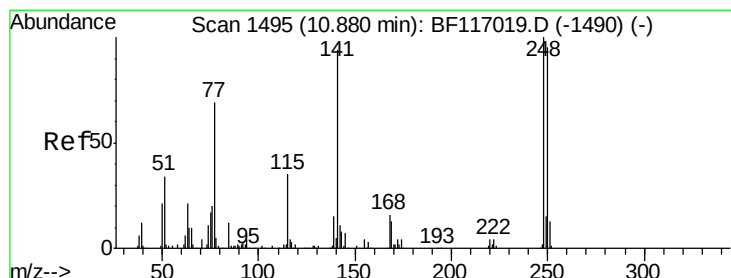
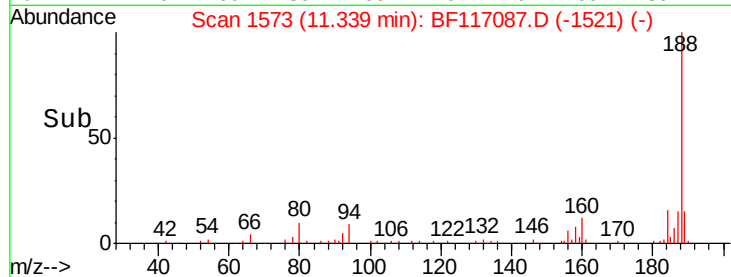
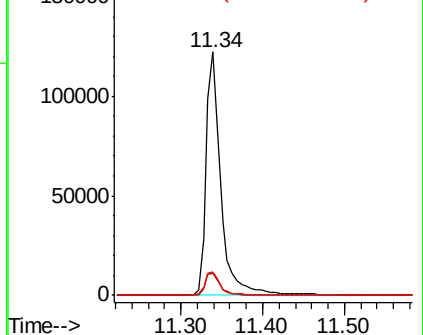
80 9.5 9.0 13.6



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



#67

4-Bromophenyl-phenylether

Concen: 3.820 ng

RT: 10.64 min Scan# 1454

Delta R.T. -0.24 min

Lab File: BF117087.D

Acq: 17 Sep 2019 3:18

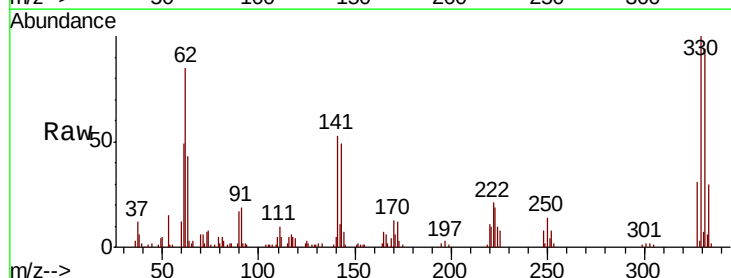
Tgt Ion:248 Resp: 6009

Ion Ratio Lower Upper

248 100

250 180.1 76.2 114.4#

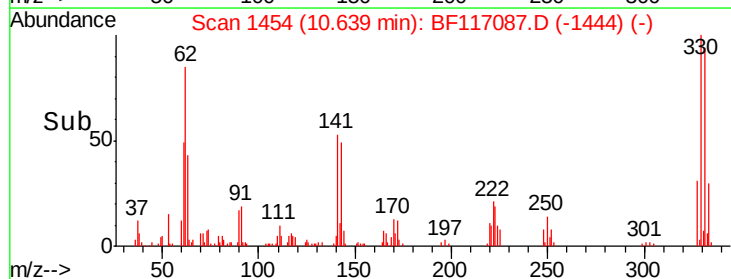
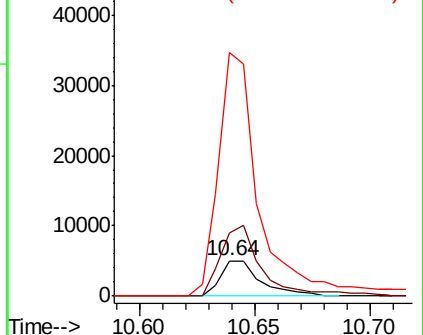
141 688.3 75.0 112.4#

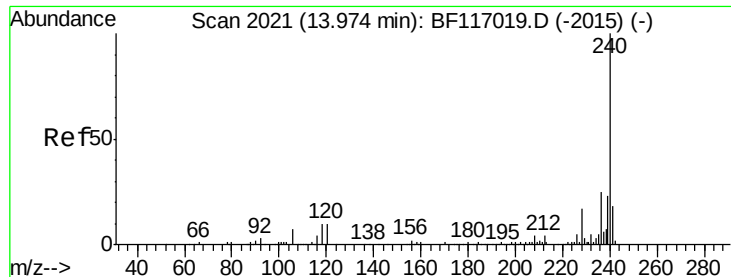


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E

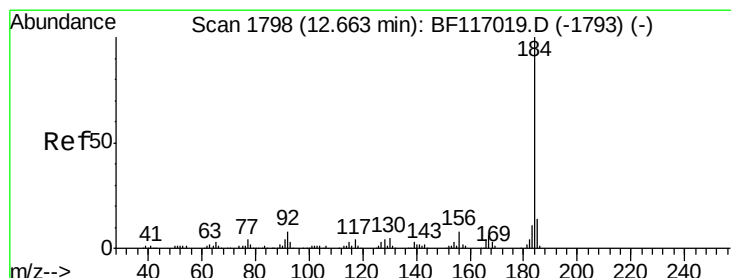
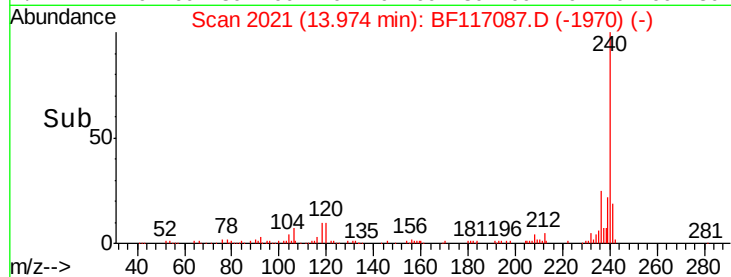
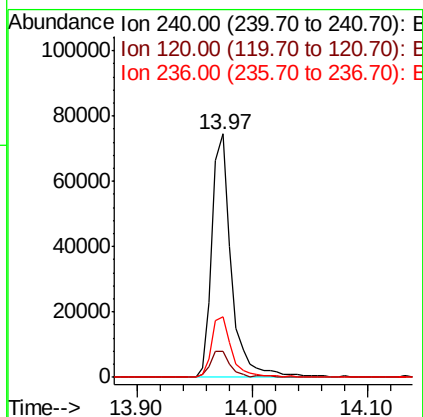
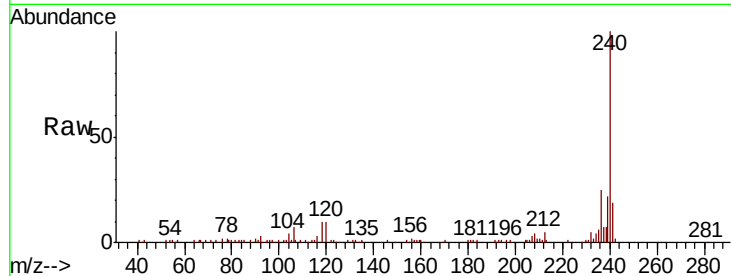




#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.97 min Scan# 2021  
Delta R.T. -0.00 min  
Lab File: BF117087.D  
Acq: 17 Sep 2019 3:18

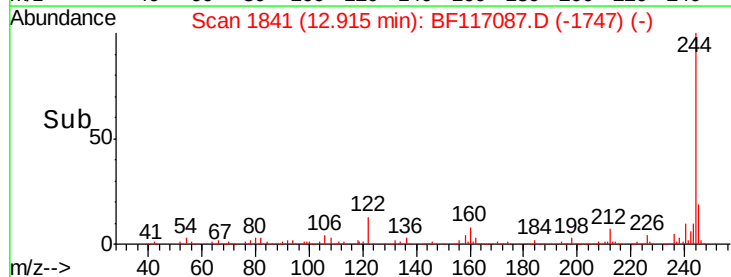
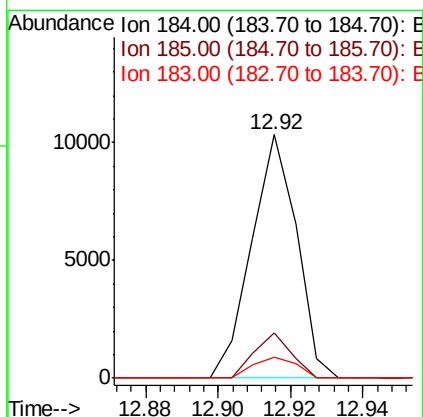
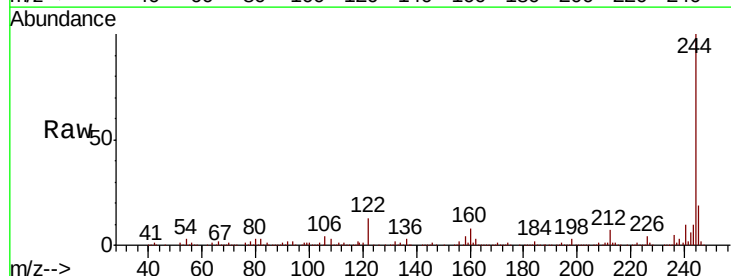
Instrument :  
BNA\_F  
ClientSampleId :

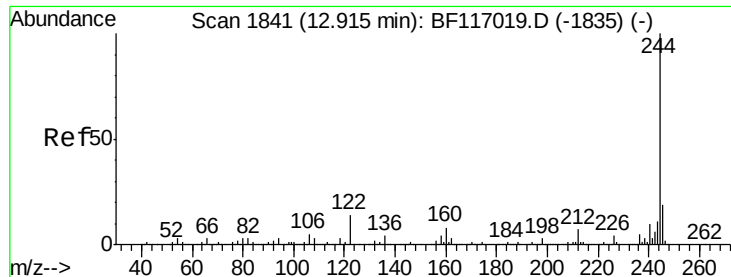
Tot Ion:240 Resp: 87357  
Ion Ratio Lower Upper  
240 100  
120 10.5 8.3 12.5  
236 24.9 20.3 30.5



#77  
Benzidine  
Concen: 3.173 ng  
RT: 12.92 min Scan# 1841  
Delta R.T. 0.25 min  
Lab File: BF117087.D  
Acq: 17 Sep 2019 3:18

Tgt Ion:184 Resp: 8928  
Ion Ratio Lower Upper  
184 100  
185 18.6 11.6 17.4#  
183 8.7 9.0 13.4#

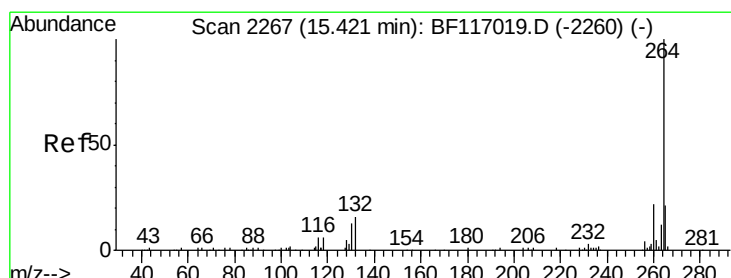
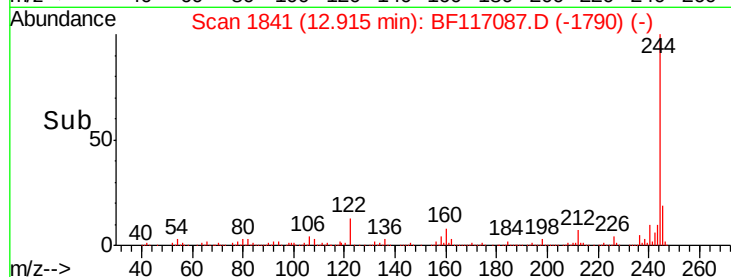
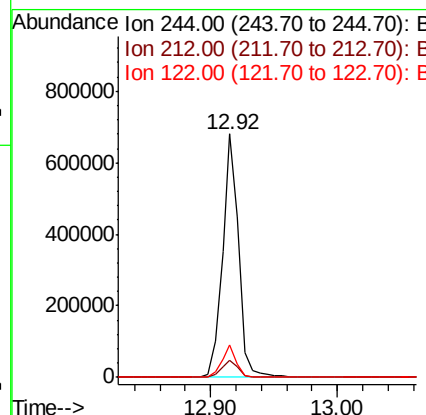
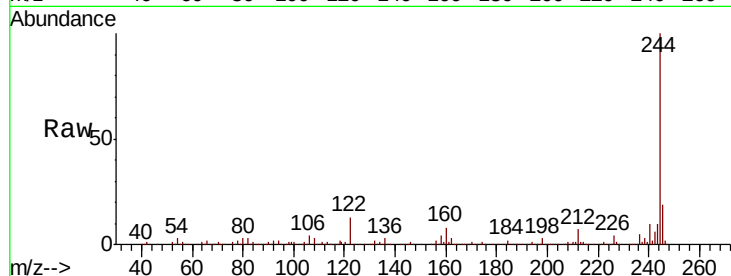




#79  
 Terphenyl-d14  
 Concen: 129.750 ng  
 RT: 12.92 min Scan# 1841  
 Delta R.T. -0.00 min  
 Lab File: BF117087.D  
 Acq: 17 Sep 2019 3:18

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 7.2   | 5.8   | 8.8   |
| 122     | 13.1  | 11.3  | 16.9  |



#87  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 15.42 min Scan# 2267  
 Delta R.T. -0.00 min  
 Lab File: BF117087.D  
 Acq: 17 Sep 2019 3:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.1  | 17.6  | 26.4  |
| 265     | 21.8  | 16.6  | 24.8  |

