

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102219\  
 Data File : BF117478.D  
 Acq On : 22 Oct 2019 15:06  
 Operator : JU  
 Sample : PB124094BL  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Oct 22 15:42:53 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

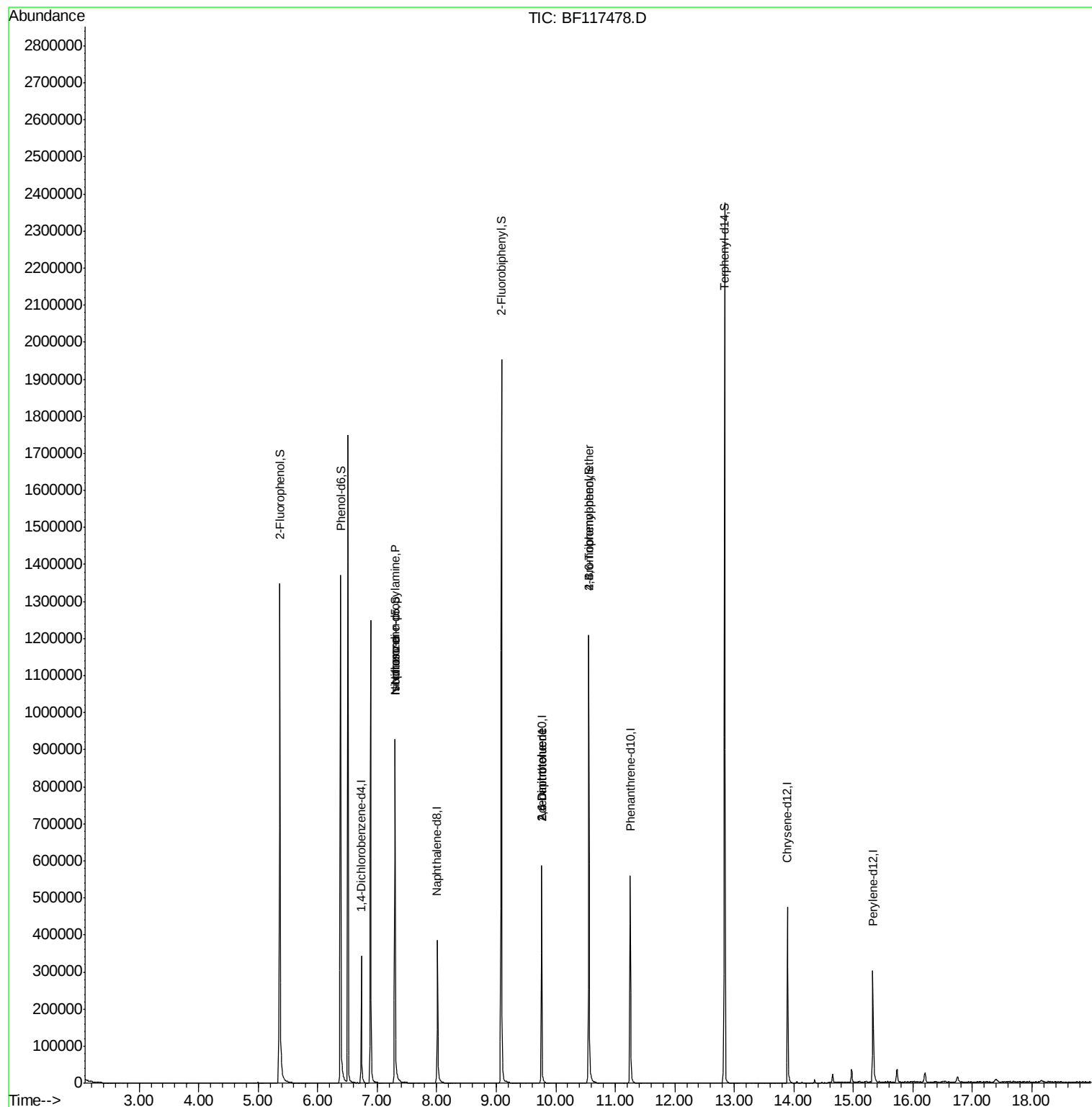
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.73  | 152  | 54084    | 20.00     | ng     | 0.00     |
| 21) Naphthalene-d8             | 8.01  | 136  | 217473   | 20.00     | ng     | 0.00     |
| 39) Acenaphthene-d10           | 9.76  | 164  | 121518   | 20.00     | ng     | 0.00     |
| 64) Phenanthrene-d10           | 11.25 | 188  | 215971   | 20.00     | ng     | 0.00     |
| 76) Chrysene-d12               | 13.89 | 240  | 168751   | 20.00     | ng     | 0.00     |
| 87) Perylene-d12               | 15.33 | 264  | 139561   | 20.00     | ng     | 0.00     |
| System Monitoring Compounds    |       |      |          |           |        |          |
| 5) 2-Fluorophenol              | 5.36  | 112  | 427852   | 117.69    | ng     | 0.01     |
| 7) Phenol-d6                   | 6.39  | 99   | 574350   | 117.63    | ng     | 0.00     |
| 23) Nitrobenzene-d5            | 7.30  | 82   | 361917   | 82.16     | ng     | 0.00     |
| 42) 2,4,6-Tribromophenol       | 10.56 | 330  | 130427   | 124.05    | ng     | 0.00     |
| 45) 2-Fluorobiphenyl           | 9.09  | 172  | 680714   | 78.93     | ng     | 0.00     |
| 79) Terphenyl-d14              | 12.84 | 244  | 784710   | 75.85     | ng     | 0.00     |
| Target Compounds               |       |      |          |           |        |          |
| 9) Benzaldehyde                | 6.39  | 77   | 692      | Below Cal | Qvalue | # 3      |
| 19) n-Nitroso-di-n-propylamine | 7.30  | 70   | 46597    | 15.626 ng | #      | 79       |
| 25) Isophorone                 | 7.30  | 82   | 361947   | 47.496 ng | #      | 65       |
| 51) 2,6-Dinitrotoluene         | 9.76  | 165  | 14868    | 8.225 ng  | #      | 22       |
| 57) 2,4-Dinitrotoluene         | 9.76  | 165  | 14868    | 6.186 ng  | #      | 12       |
| 67) 4-Bromophenyl-phenylether  | 10.56 | 248  | 8040     | 3.456 ng  | #      | 1        |

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

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BNA\_F  
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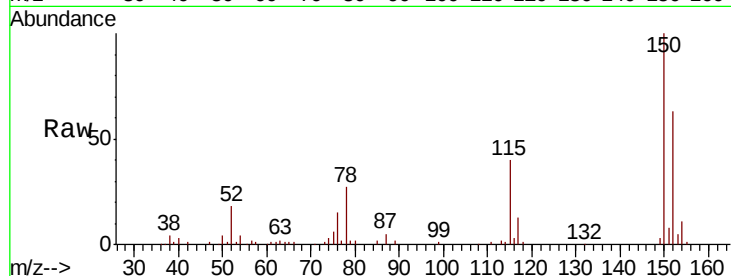


#1

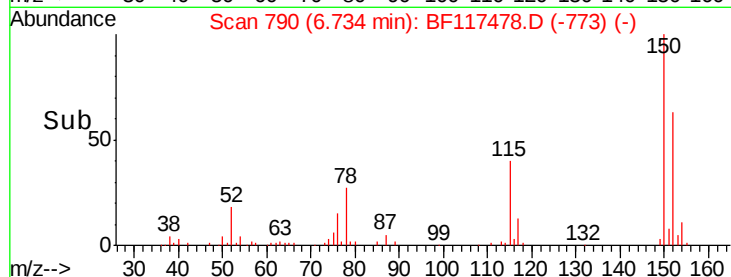
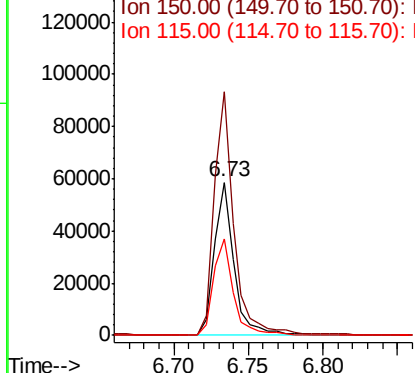
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.73 min Scan# 790  
Delta R.T. -0.00 min  
Lab File: BF117478.D  
Acq: 22 Oct 2019 15:06

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 54084  
Ion Ratio Lower Upper  
152 100  
150 158.8 126.8 190.2  
115 63.0 51.6 77.4



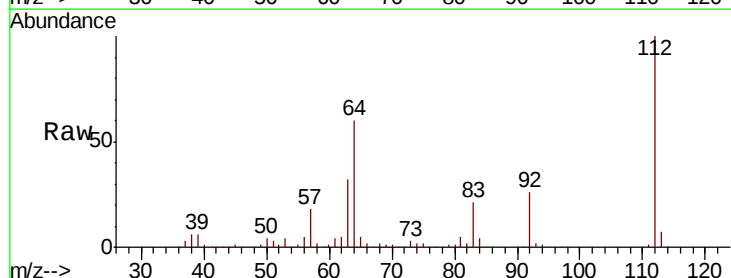
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



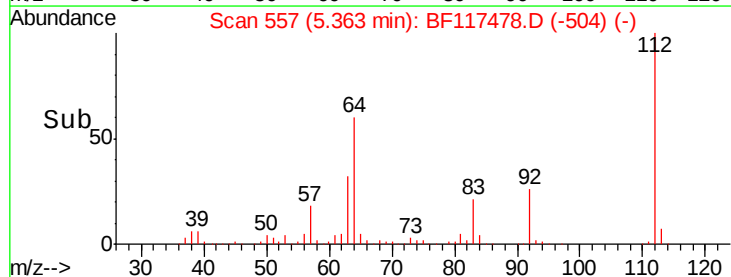
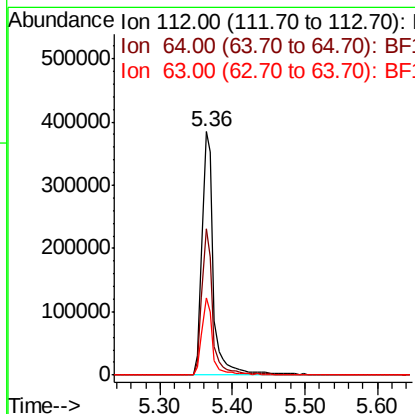
#5

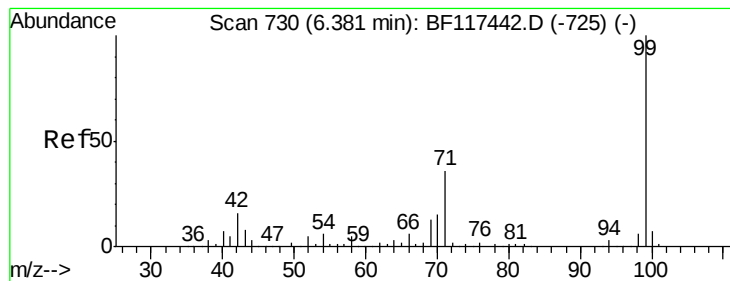
2-Fluorophenol  
Concen: 117.690 ng  
RT: 5.36 min Scan# 557  
Delta R.T. 0.01 min  
Lab File: BF117478.D  
Acq: 22 Oct 2019 15:06

Tgt Ion:112 Resp: 427852  
Ion Ratio Lower Upper  
112 100  
64 60.1 44.1 66.1  
63 32.0 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: 117.628 ng

RT: 6.39 min Scan# 731

Delta R.T. 0.01 min

Lab File: BF117478.D

Acq: 22 Oct 2019 15:06

Instrument :

BNA\_F

ClientSampleId :

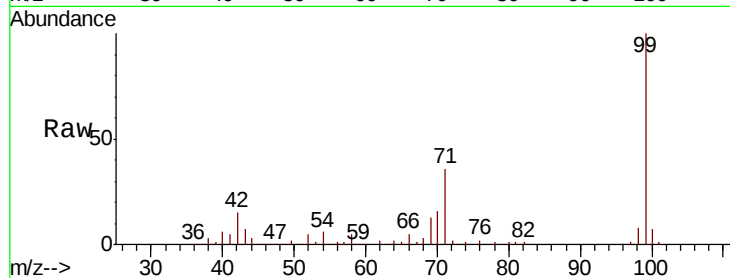
Tot Ion: 99 Resp: 574350

Ion Ratio Lower Upper

99 100

42 15.4 12.8 19.2

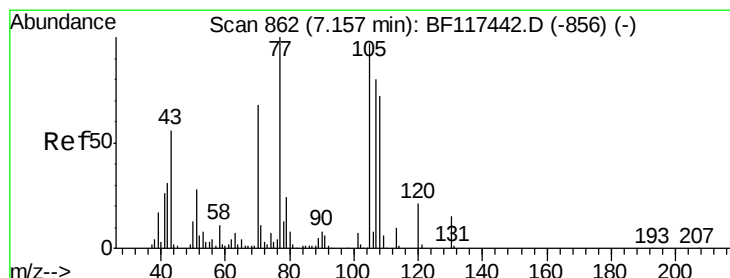
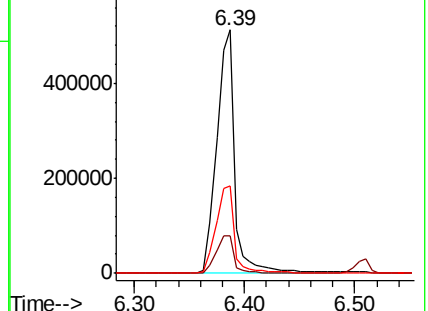
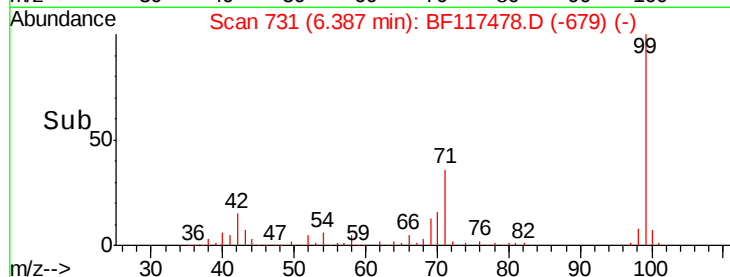
71 36.0 28.6 43.0



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



#19

n-Nitroso-di-n-propylamine

Concen: 15.626 ng

RT: 7.30 min Scan# 886

Delta R.T. 0.14 min

Lab File: BF117478.D

Acq: 22 Oct 2019 15:06

Tgt Ion: 70 Resp: 46597

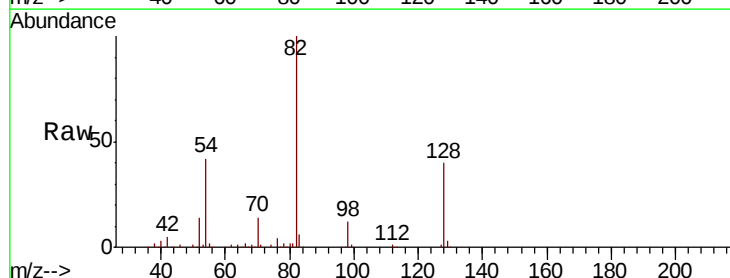
Ion Ratio Lower Upper

70 100

42 39.9 36.7 55.1

101 0.0 8.3 12.5#

130 2.2 18.1 27.1#

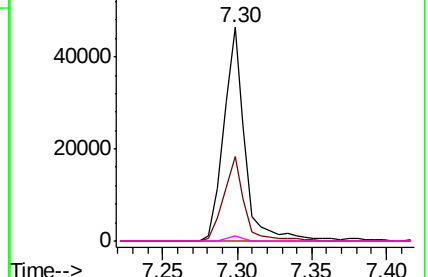
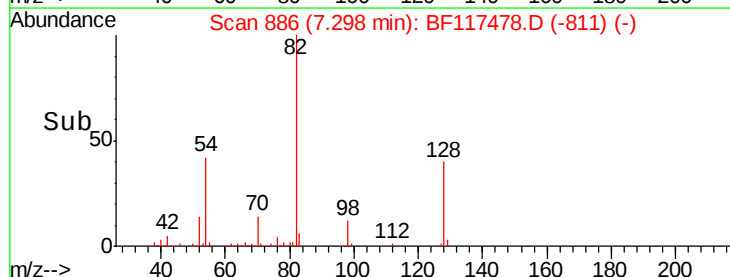


Abundance Ion 70.00 (69.70 to 70.70): BF1

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

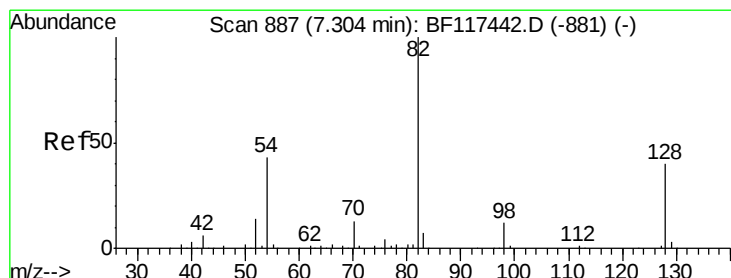
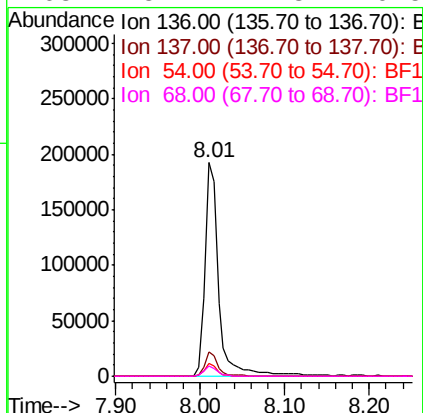
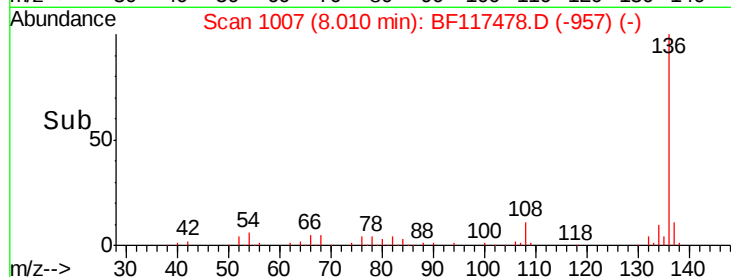
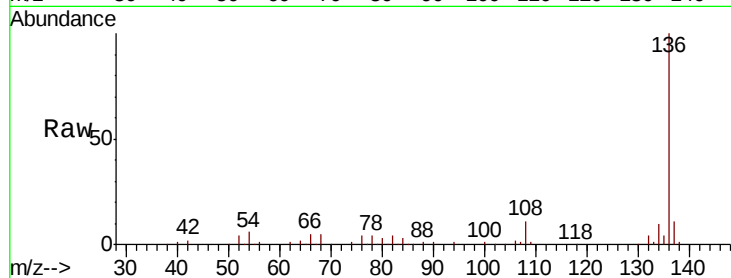




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.01 min Scan# 1007  
Delta R.T. -0.01 min  
Lab File: BF117478.D  
Acq: 22 Oct 2019 15:06

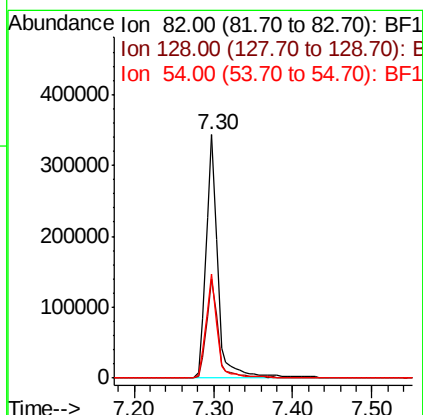
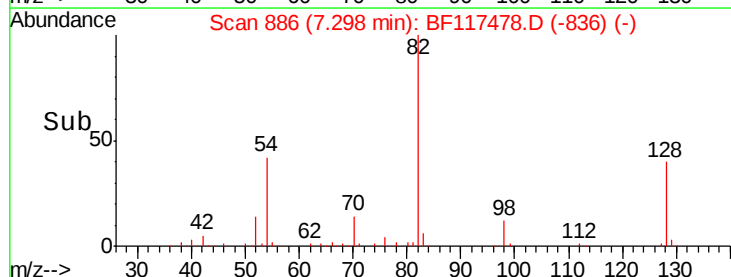
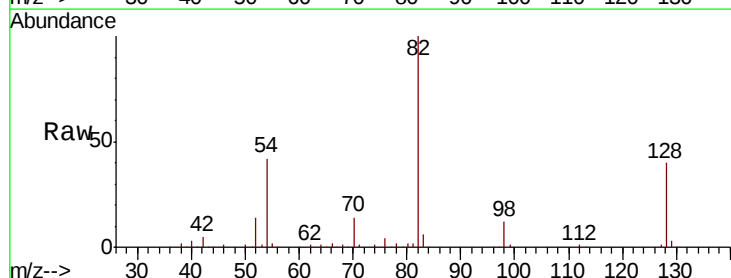
Instrument :  
BNA\_F  
ClientSampleId :

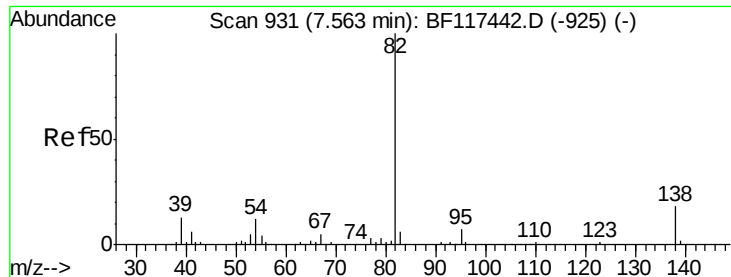
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 136   | Resp: | 217473 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.1  | 8.2   | 12.4   |
| 54       | 6.1   | 4.5   | 6.7    |
| 68       | 5.1   | 4.3   | 6.5    |



#23  
Nitrobenzene-d5  
Concen: 82.158 ng  
RT: 7.30 min Scan# 886  
Delta R.T. -0.01 min  
Lab File: BF117478.D  
Acq: 22 Oct 2019 15:06

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 361917 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 40.5  | 32.2  | 48.2   |
| 54       | 42.5  | 34.2  | 51.2   |





#25

Isophorone

Concen: 47.496 ng

RT: 7.30 min Scan# 886

Delta R.T. -0.26 min

Lab File: BF117478.D

Acq: 22 Oct 2019 15:06

Instrument :

BNA\_F

ClientSampleId :

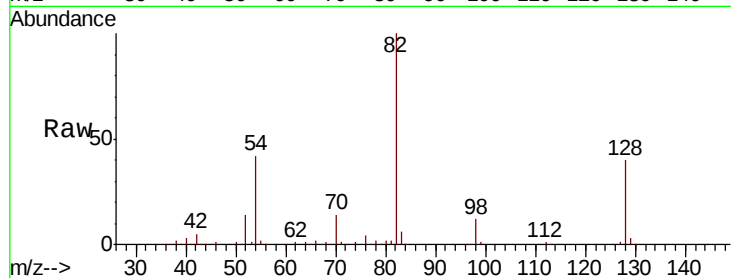
Tot Ion: 82 Resp: 361947

Ion Ratio Lower Upper

82 100

95 0.0 5.4 8.0#

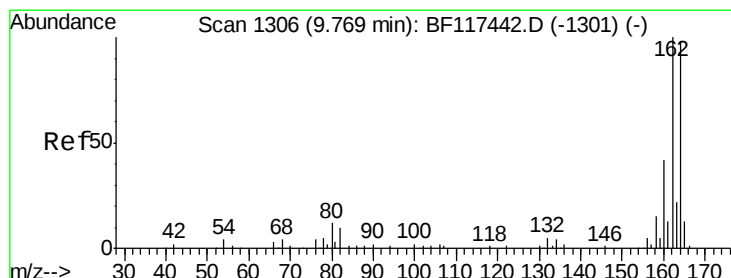
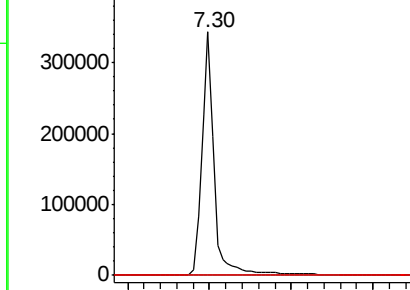
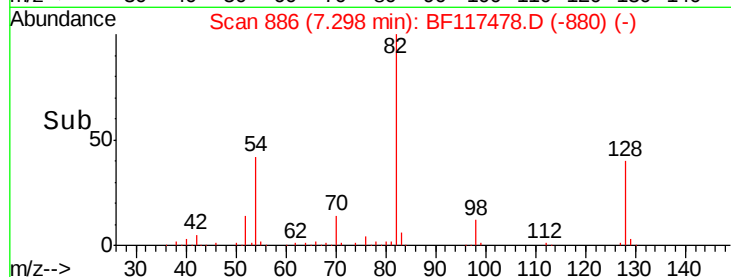
138 0.0 14.2 21.2#



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: 9.76 min Scan# 1305

Delta R.T. -0.01 min

Lab File: BF117478.D

Acq: 22 Oct 2019 15:06

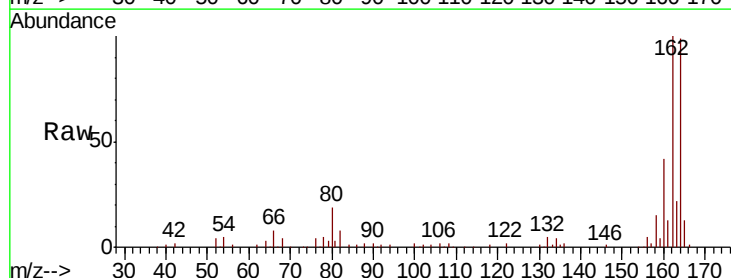
Tgt Ion:164 Resp: 121518

Ion Ratio Lower Upper

164 100

162 100.6 81.8 122.6

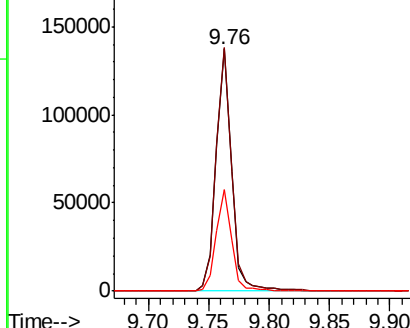
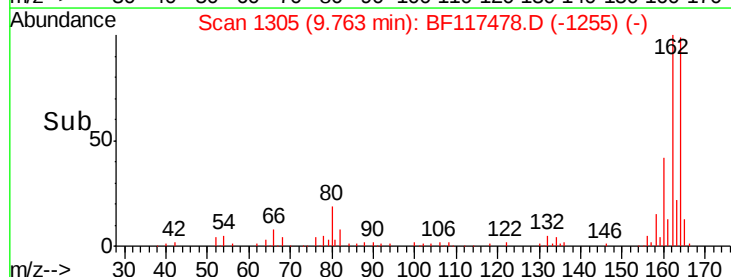
160 41.8 34.4 51.6

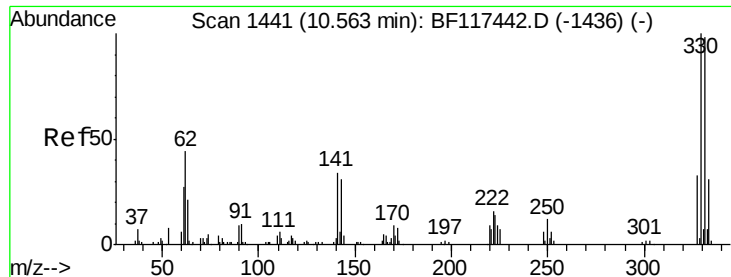


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#42

2,4,6-Tribromophenol

Concen: 124.046 ng

RT: 10.56 min Scan# 1440

Delta R.T. -0.01 min

Lab File: BF117478.D

Acq: 22 Oct 2019 15:06

Instrument :

BNA\_F

ClientSampleId :

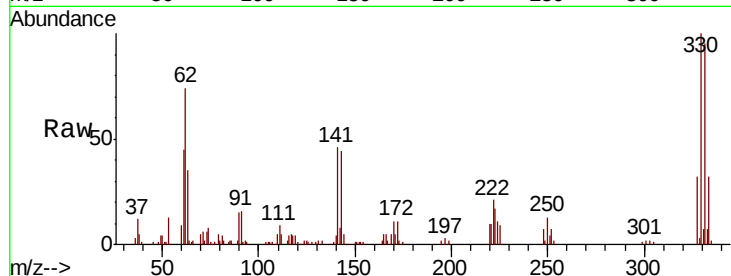
Tot Ion:330 Resp: 130427

Ion Ratio Lower Upper

330 100

332 95.6 78.5 117.7

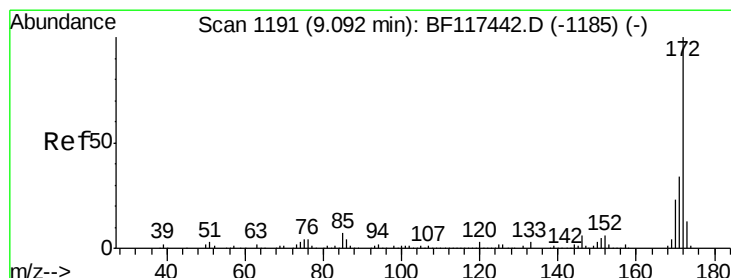
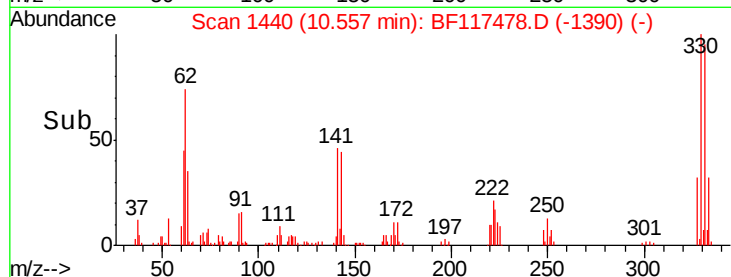
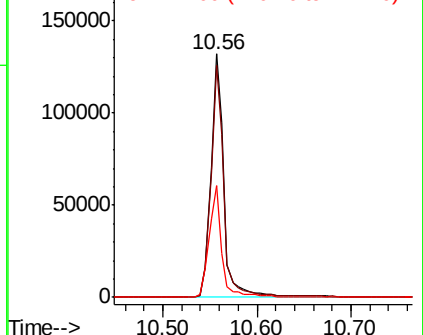
141 44.4 37.0 55.6



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: 78.928 ng

RT: 9.09 min Scan# 1190

Delta R.T. -0.01 min

Lab File: BF117478.D

Acq: 22 Oct 2019 15:06

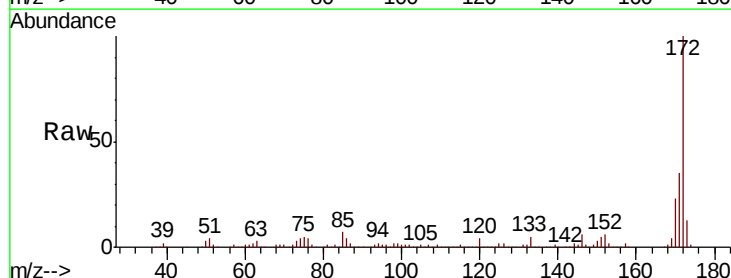
Tgt Ion:172 Resp: 680714

Ion Ratio Lower Upper

172 100

171 35.4 27.5 41.3

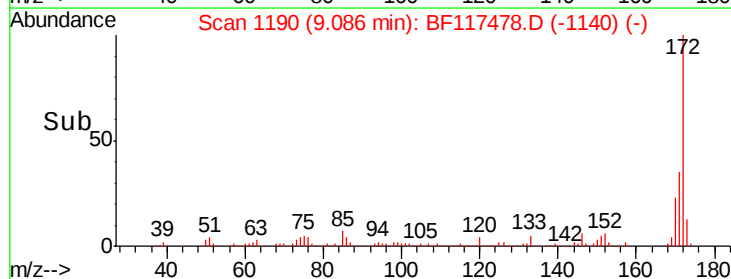
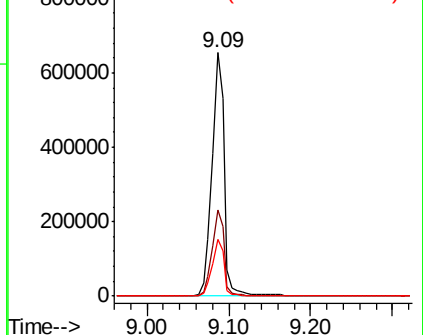
170 23.3 18.6 27.8

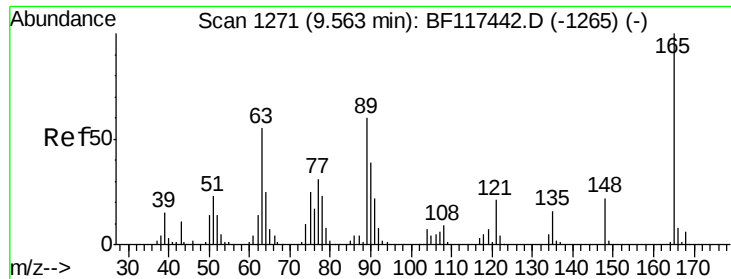


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E

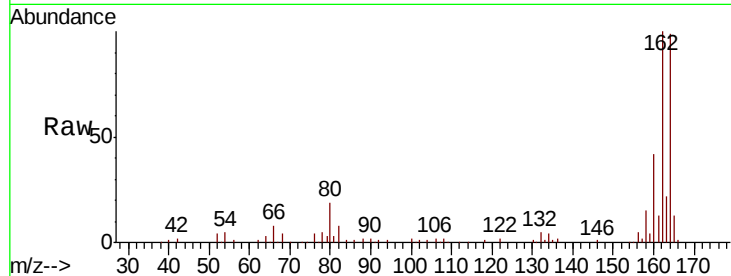




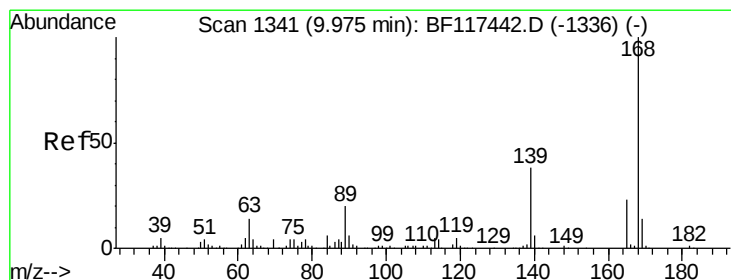
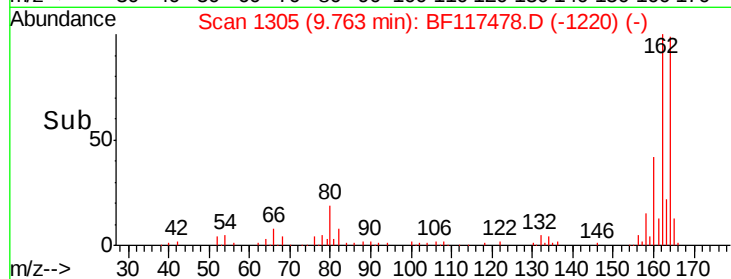
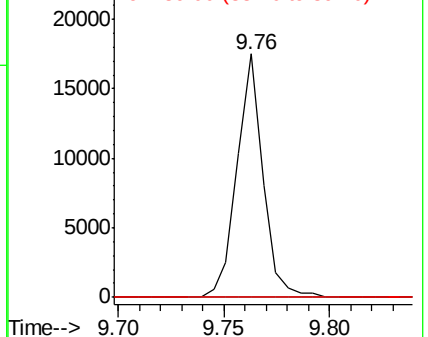
#51  
 2,6-Dinitrotoluene  
 Concen: 8.225 ng  
 RT: 9.76 min Scan# 1305  
 Delta R.T. 0.20 min  
 Lab File: BF117478.D  
 Acq: 22 Oct 2019 15:06

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# |

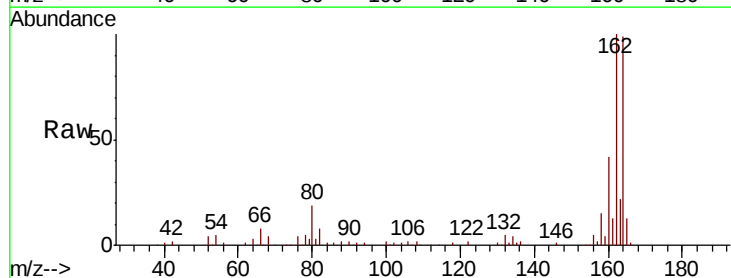


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BF1  
 Ion 89.00 (88.70 to 89.70): BF1

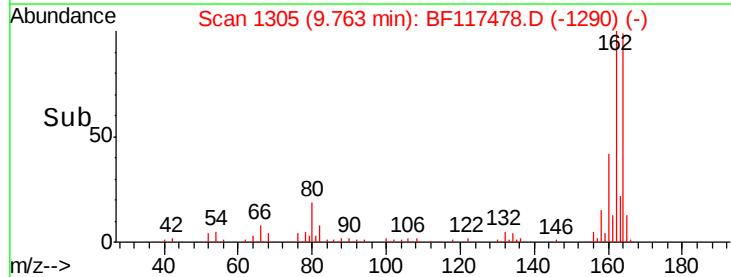
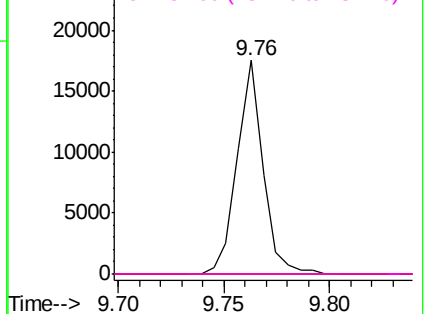


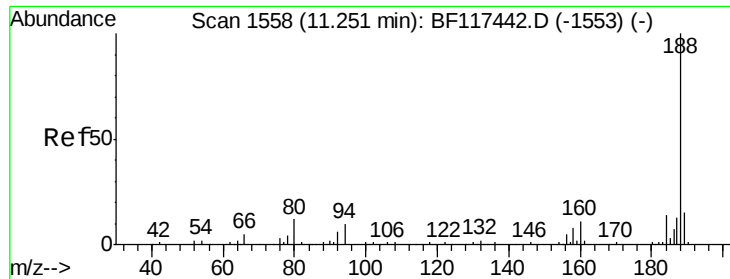
#57  
 2,4-Dinitrotoluene  
 Concen: 6.186 ng  
 RT: 9.76 min Scan# 1305  
 Delta R.T. -0.21 min  
 Lab File: BF117478.D  
 Acq: 22 Oct 2019 15:06

| 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#   |



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

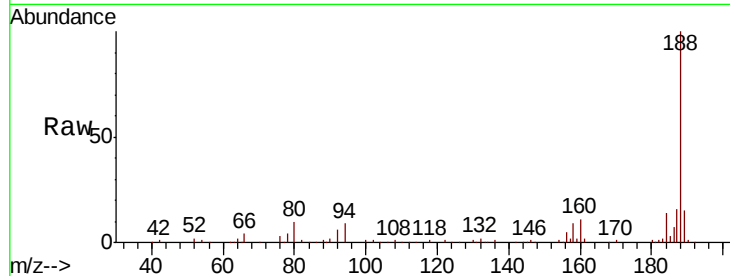




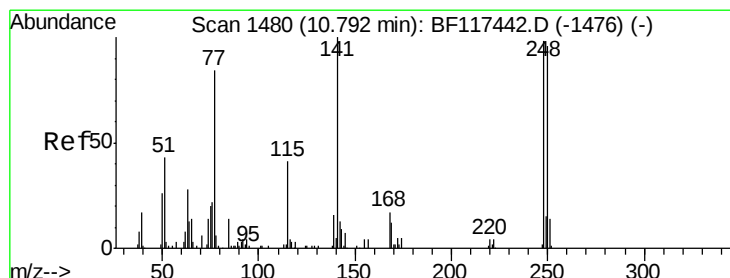
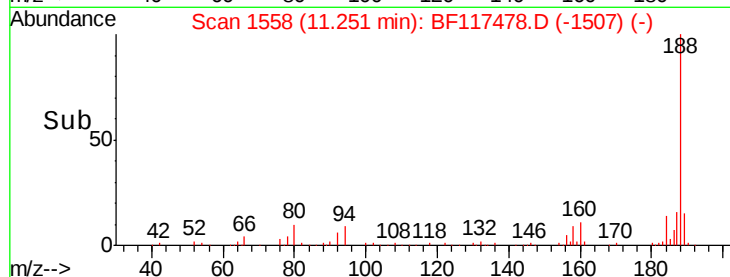
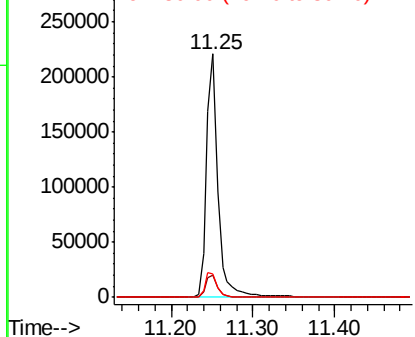
#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.25 min Scan# 1558  
Delta R.T. -0.00 min  
Lab File: BF117478.D  
Acq: 22 Oct 2019 15:06

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:188 Resp: 215971  
Ion Ratio Lower Upper  
188 100  
94 9.1 8.0 12.0  
80 9.7 9.5 14.3

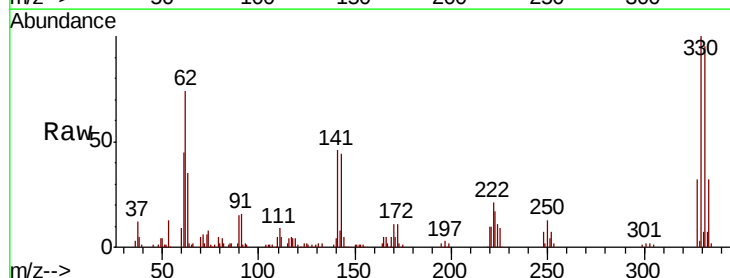


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF1  
Ion 80.00 (79.70 to 80.70): BF1

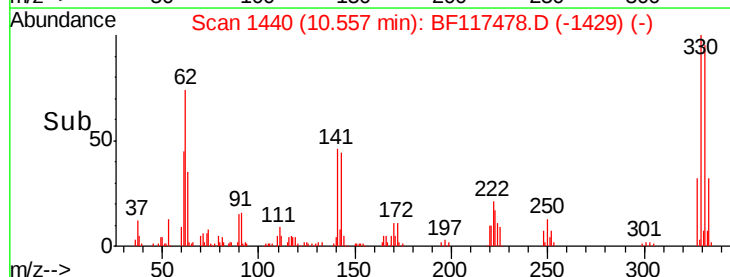
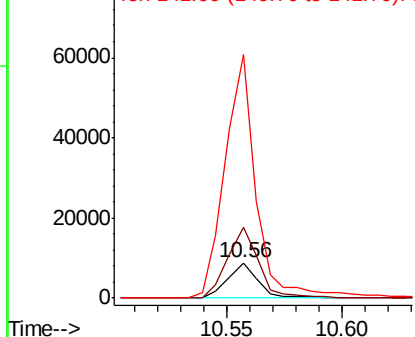


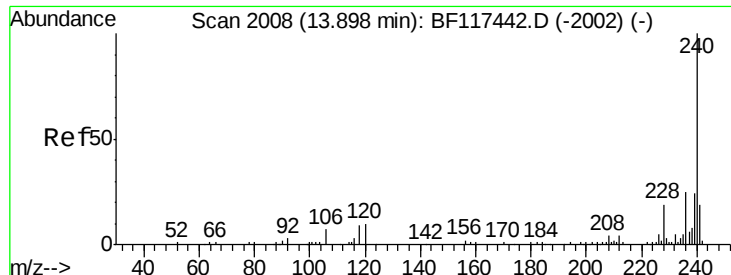
#67  
4-Bromophenyl-phenylether  
Concen: 3.456 ng  
RT: 10.56 min Scan# 1440  
Delta R.T. -0.24 min  
Lab File: BF117478.D  
Acq: 22 Oct 2019 15:06

Tgt Ion:248 Resp: 8040  
Ion Ratio Lower Upper  
248 100  
250 203.6 78.0 117.0#  
141 696.5 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

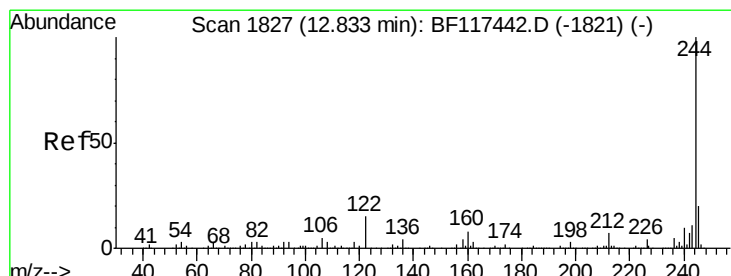
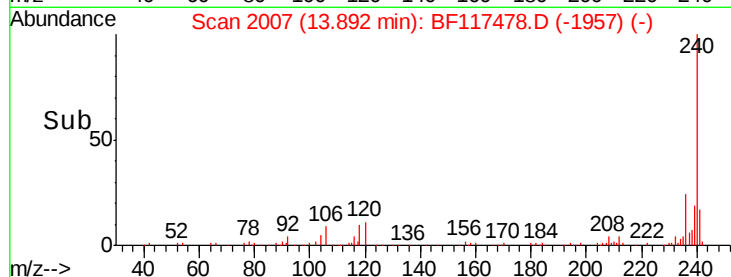
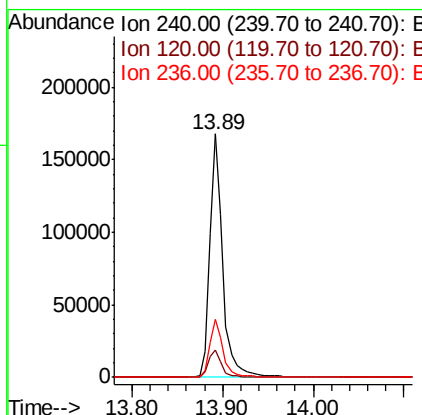
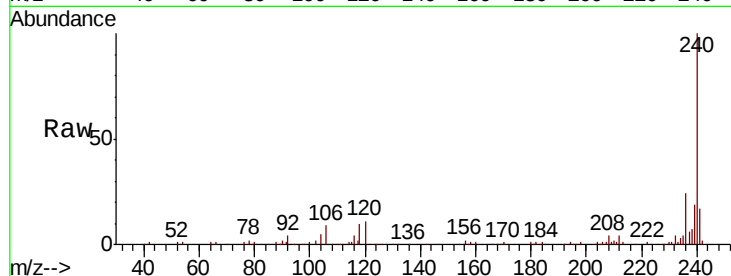




#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 13.89 min Scan# 2007  
 Delta R.T. -0.01 min  
 Lab File: BF117478.D  
 Acq: 22 Oct 2019 15:06

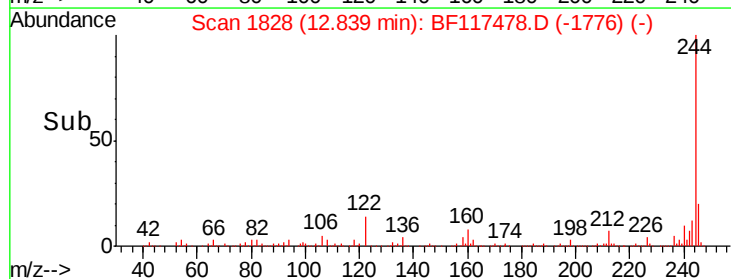
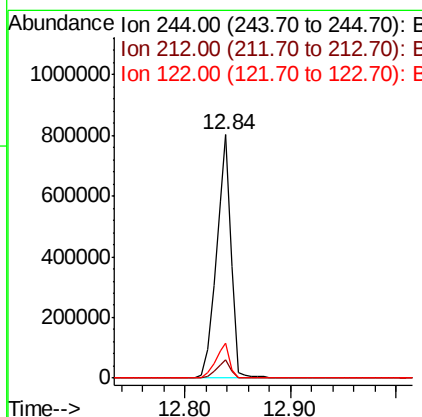
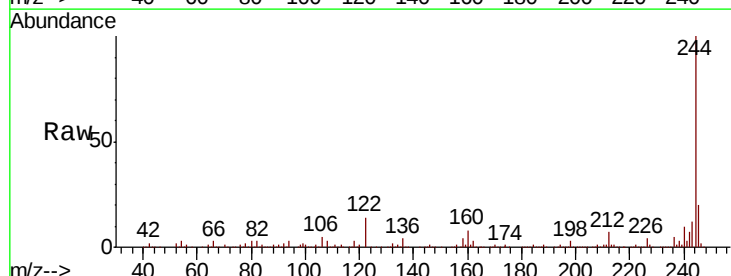
Instrument :  
 BNA\_F  
 ClientSampleId :

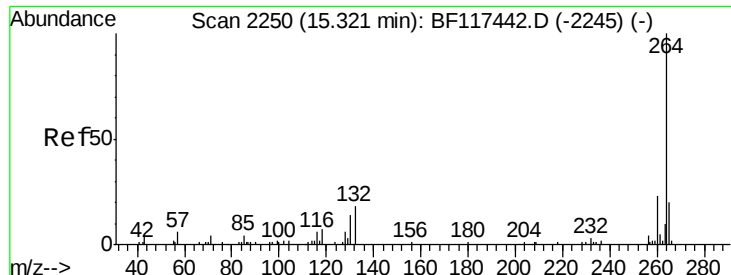
Tot Ion:240 Resp: 168751  
 Ion Ratio Lower Upper  
 240 100  
 120 11.3 8.4 12.6  
 236 23.9 20.0 30.0



#79  
 Terphenyl-d14  
 Concen: 75.849 ng  
 RT: 12.84 min Scan# 1828  
 Delta R.T. 0.01 min  
 Lab File: BF117478.D  
 Acq: 22 Oct 2019 15:06

Tgt Ion:244 Resp: 784710  
 Ion Ratio Lower Upper  
 244 100  
 212 7.4 5.8 8.6  
 122 14.3 11.8 17.8





#87  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.33 min Scan# 2251  
Delta R.T. 0.01 min  
Lab File: BF117478.D  
Acq: 22 Oct 2019 15:06

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 21.7  | 18.4  | 27.6  |
| 265     | 22.5  | 16.1  | 24.1  |

