

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF101419\  
 Data File : BF117406.D  
 Acq On : 14 Oct 2019 19:20  
 Operator : JU  
 Sample : K5323-08  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Oct 15 01:11:01 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF101419.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Oct 14 19:03:29 2019  
 Response via : Initial Calibration

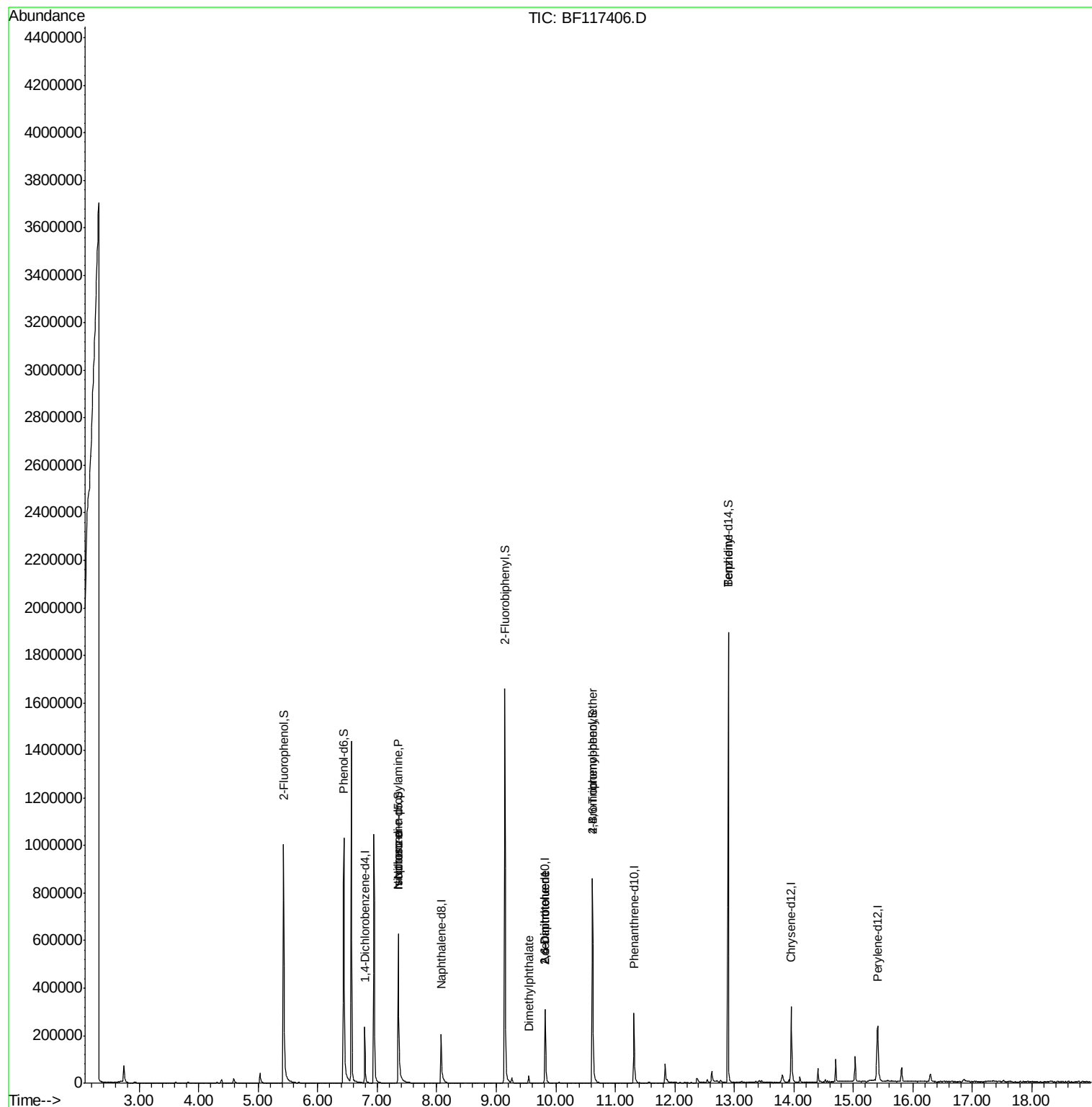
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.79  | 152  | 39725    | 20.00     | ng     | 0.00     |
| 21) Naphthalene-d8             | 8.07  | 136  | 157904   | 20.00     | ng     | 0.00     |
| 39) Acenaphthene-d10           | 9.82  | 164  | 82367    | 20.00     | ng     | 0.00     |
| 64) Phenanthrene-d10           | 11.31 | 188  | 142505   | 20.00     | ng     | 0.00     |
| 76) Chrysene-d12               | 13.96 | 240  | 121215   | 20.00     | ng     | 0.00     |
| 87) Perylene-d12               | 15.41 | 264  | 126914   | 20.00     | ng     | 0.00     |
| System Monitoring Compounds    |       |      |          |           |        |          |
| 5) 2-Fluorophenol              | 5.43  | 112  | 353617   | 136.96    | ng     | 0.01     |
| 7) Phenol-d6                   | 6.44  | 99   | 452531   | 132.10    | ng     | 0.00     |
| 23) Nitrobenzene-d5            | 7.36  | 82   | 297171   | 95.40     | ng     | 0.00     |
| 42) 2,4,6-Tribromophenol       | 10.62 | 330  | 107942   | 161.02    | ng     | 0.00     |
| 45) 2-Fluorobiphenyl           | 9.15  | 172  | 553002   | 97.88     | ng     | 0.00     |
| 79) Terphenyl-d14              | 12.90 | 244  | 617605   | 83.06     | ng     | 0.00     |
| Target Compounds               |       |      |          |           |        |          |
| 9) Benzaldehyde                | 6.43  | 77   | 473      | Below Cal | Qvalue | # 1      |
| 19) n-Nitroso-di-n-propylamine | 7.36  | 70   | 37951    | 17.375 ng | #      | 75       |
| 25) Isophorone                 | 7.36  | 82   | 297169   | 53.553 ng | #      | 67       |
| 50) Dimethylphthalate          | 9.55  | 163  | 17068    | 2.885 ng  |        | 99       |
| 51) 2,6-Dinitrotoluene         | 9.82  | 165  | 10124    | 8.142 ng  | #      | 21       |
| 57) 2,4-Dinitrotoluene         | 9.82  | 165  | 10124    | 6.171 ng  | #      | 12       |
| 67) 4-Bromophenyl-phenylether  | 10.62 | 248  | 6611     | 4.230 ng  | #      | 1        |
| 77) Benzydine                  | 12.90 | 184  | 8358     | 2.788 ng  |        | 95       |

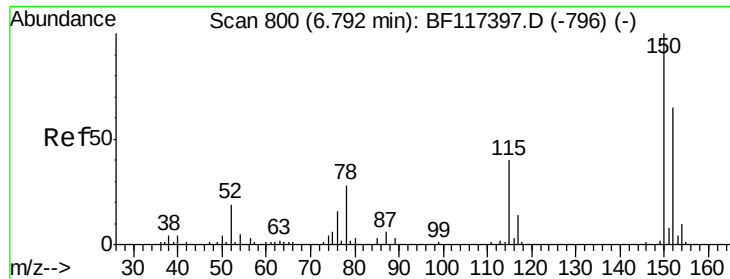
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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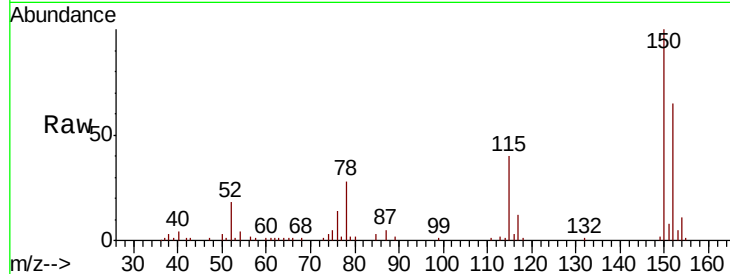


#1

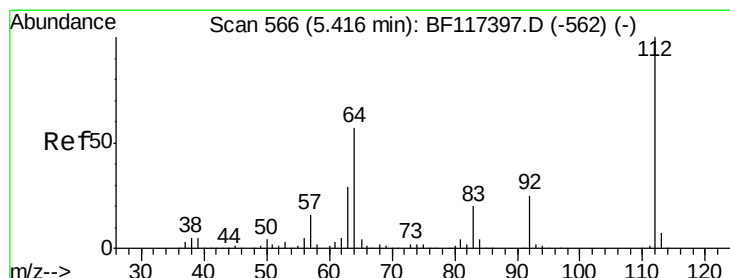
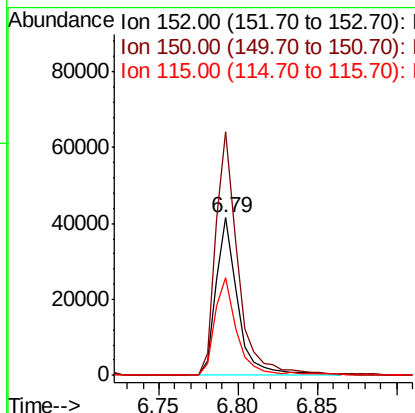
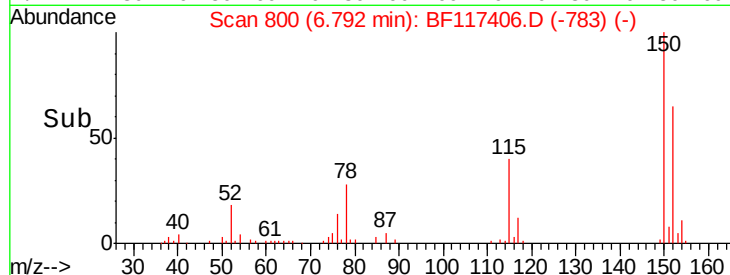
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.79 min Scan# 800  
Delta R.T. 0.00 min  
Lab File: BF117406.D  
Acq: 14 Oct 2019 19:20

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 39725  
Ion Ratio Lower Upper  
152 100  
150 154.4 122.7 184.1  
115 61.8 48.6 73.0



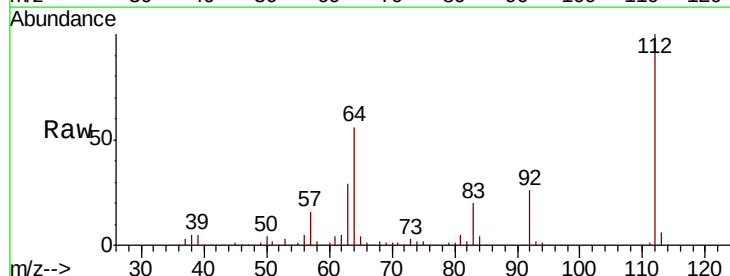
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



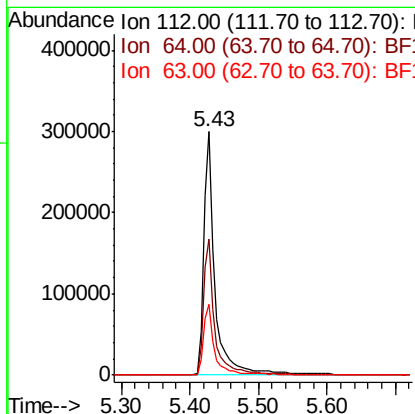
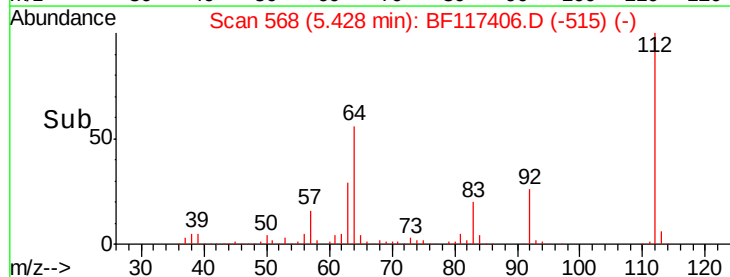
#5

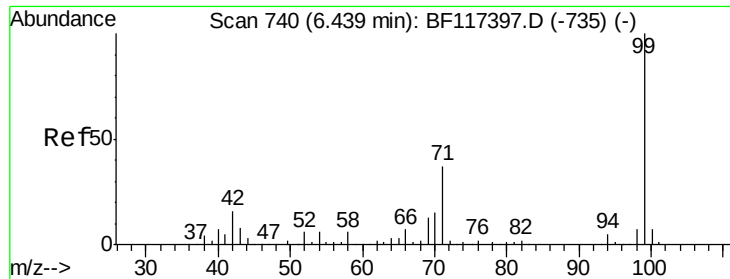
2-Fluorophenol  
Concen: 136.963 ng  
RT: 5.43 min Scan# 568  
Delta R.T. 0.01 min  
Lab File: BF117406.D  
Acq: 14 Oct 2019 19:20

Tgt Ion:112 Resp: 353617  
Ion Ratio Lower Upper  
112 100  
64 56.1 45.2 67.8  
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: 132.102 ng

RT: 6.44 min Scan# 740

Delta R.T. 0.00 min

Lab File: BF117406.D

Acq: 14 Oct 2019 19:20

Instrument :

BNA\_F

ClientSampled :

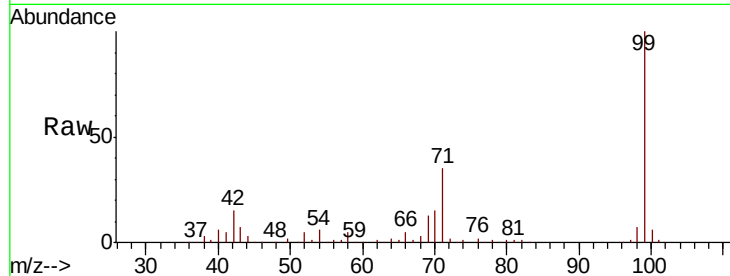
Tot Ion: 99 Resp: 452531

Ion Ratio Lower Upper

99 100

42 15.3 12.5 18.7

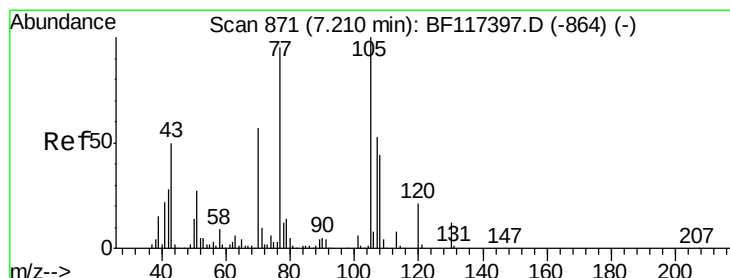
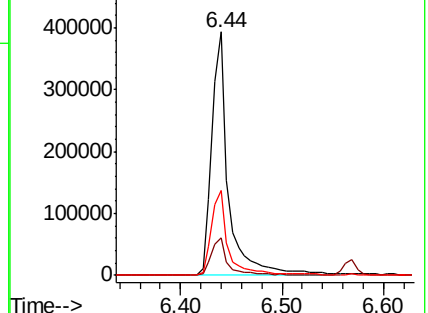
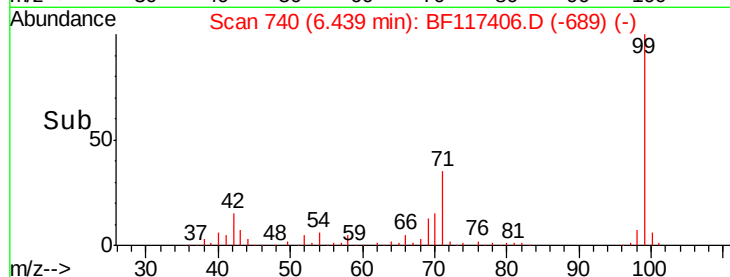
71 35.1 29.2 43.8



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



#19

n-Nitroso-di-n-propylamine

Concen: 17.375 ng

RT: 7.36 min Scan# 896

Delta R.T. 0.15 min

Lab File: BF117406.D

Acq: 14 Oct 2019 19:20

Tgt Ion: 70 Resp: 37951

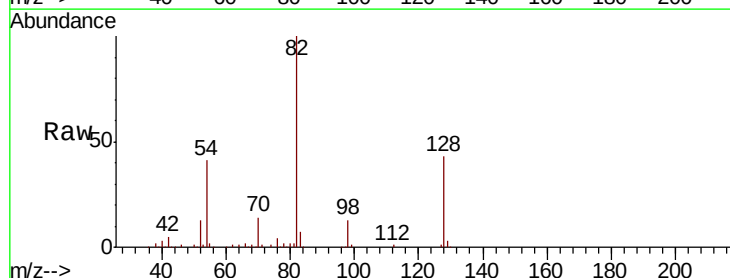
Ion Ratio Lower Upper

70 100

42 36.7 39.8 59.8#

101 0.0 8.1 12.1#

130 2.2 16.4 24.6#

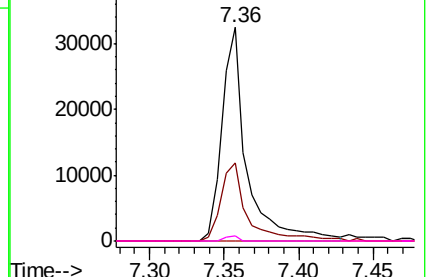
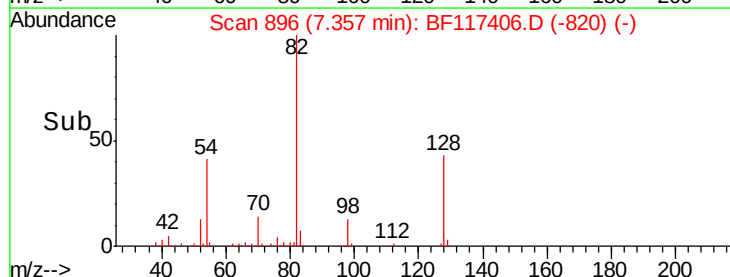


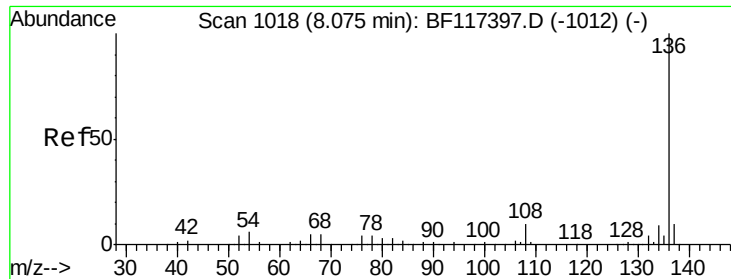
Abundance Ion 70.00 (69.70 to 70.70): BF1

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

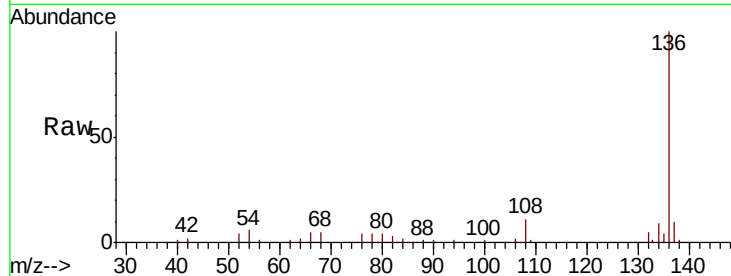




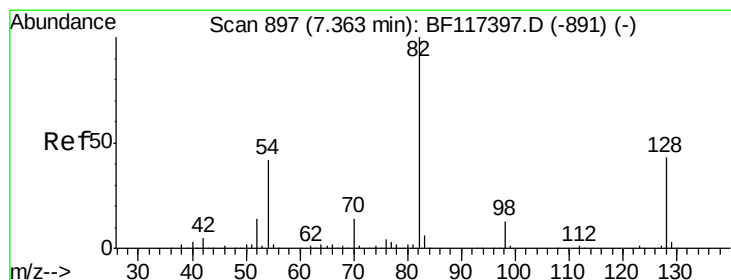
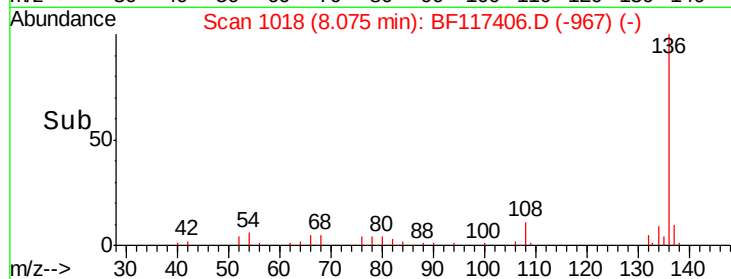
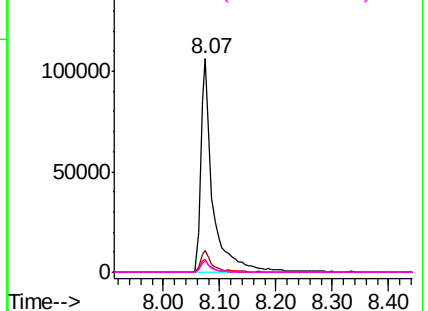
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.07 min Scan# 1018  
Delta R.T. 0.00 min  
Lab File: BF117406.D  
Acq: 14 Oct 2019 19:20

Instrument :  
BNA\_F  
ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 136   | Resp: | 157904 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.5  | 8.4   | 12.6   |
| 54       | 6.3   | 4.6   | 6.8    |
| 68       | 5.2   | 3.8   | 5.8    |

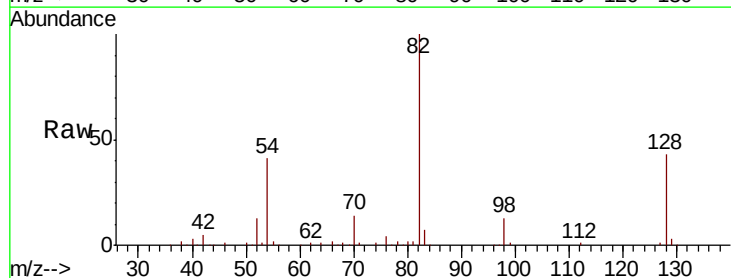


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1

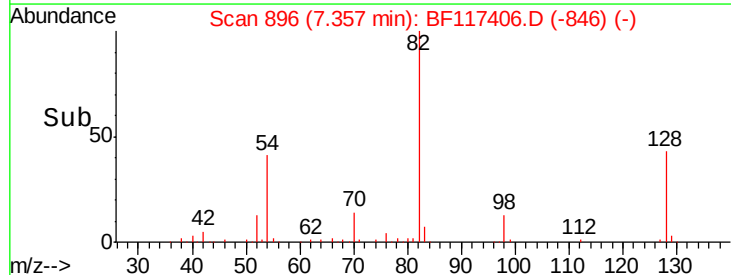
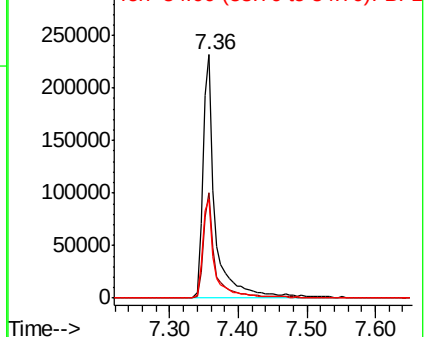


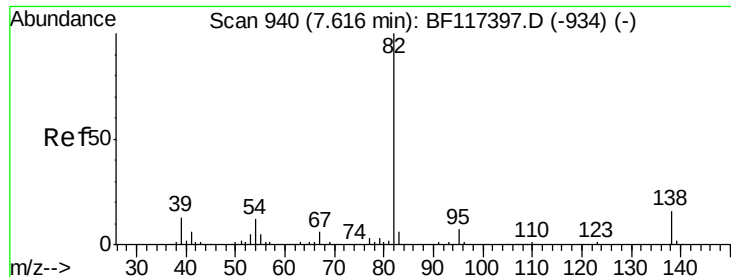
#23  
Nitrobenzene-d5  
Concen: 95.398 ng  
RT: 7.36 min Scan# 896  
Delta R.T. -0.01 min  
Lab File: BF117406.D  
Acq: 14 Oct 2019 19:20

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 297171 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 43.2  | 34.1  | 51.1   |
| 54       | 40.8  | 33.3  | 49.9   |



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





#25

Isophorone

Concen: 53.553 ng

RT: 7.36 min Scan# 896

Delta R.T. -0.26 min

Lab File: BF117406.D

Acq: 14 Oct 2019 19:20

Instrument :

BNA\_F

ClientSampled :

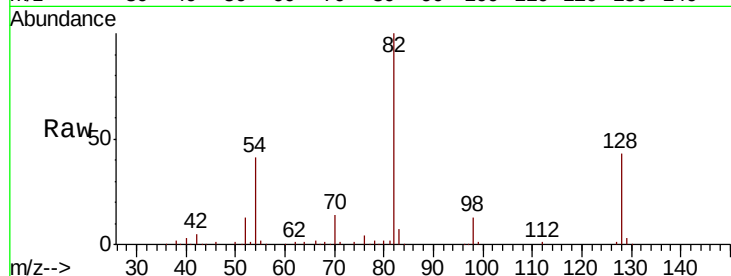
Tot Ion: 82 Resp: 297169

Ion Ratio Lower Upper

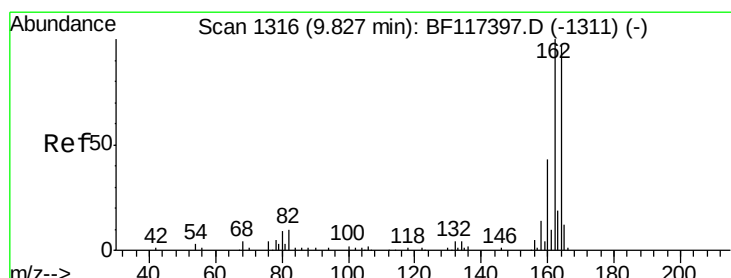
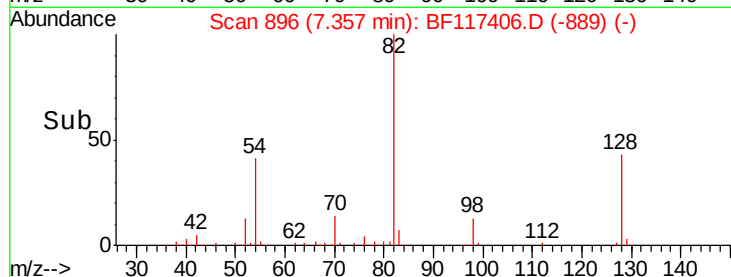
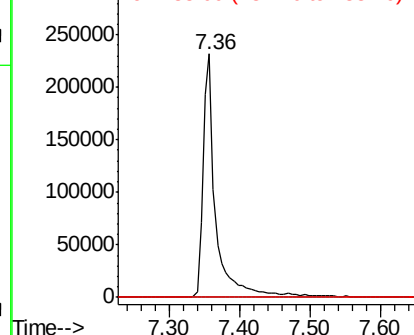
82 100

95 0.0 5.4 8.0#

138 0.0 13.0 19.4#



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: 9.82 min Scan# 1315

Delta R.T. -0.01 min

Lab File: BF117406.D

Acq: 14 Oct 2019 19:20

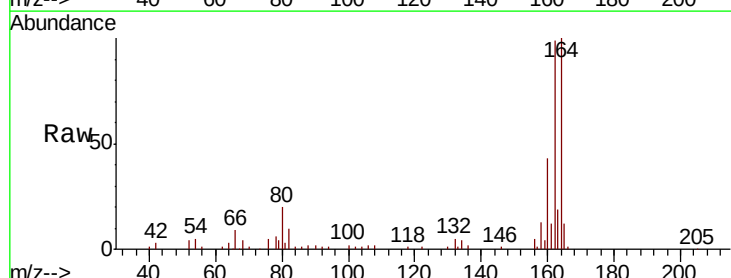
Tgt Ion: 164 Resp: 82367

Ion Ratio Lower Upper

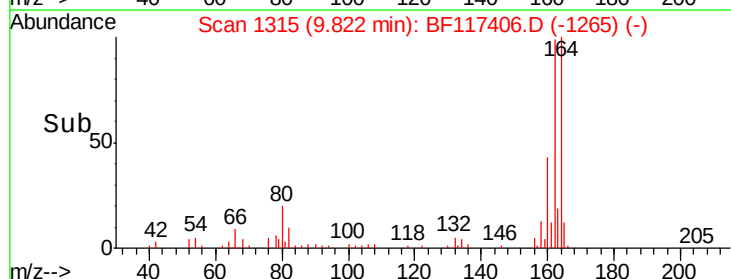
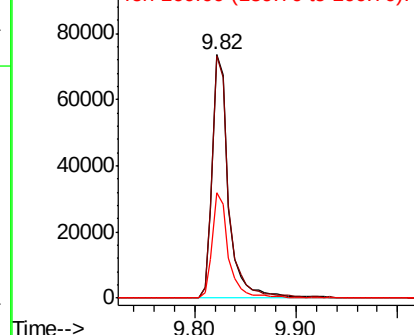
164 100

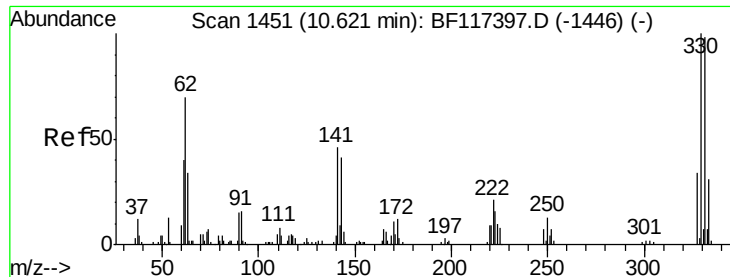
162 99.4 82.4 123.6

160 43.5 35.4 53.0



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: 161.022 ng

RT: 10.62 min Scan# 1450

Delta R.T. -0.01 min

Lab File: BF117406.D

Acq: 14 Oct 2019 19:20

Instrument :

BNA\_F

ClientSampleId :

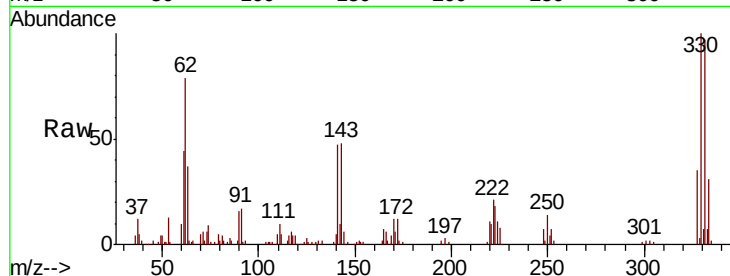
Tot Ion:330 Resp: 107942

Ion Ratio Lower Upper

330 100

332 97.3 75.0 112.6

141 44.0 34.2 51.4

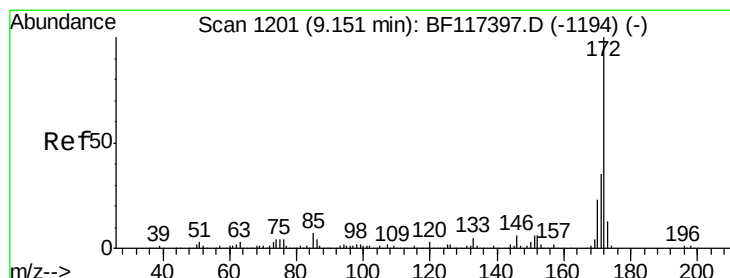
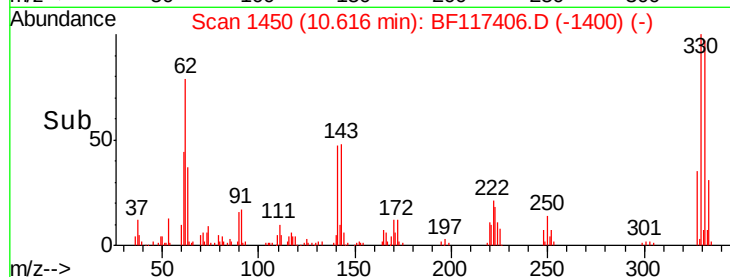
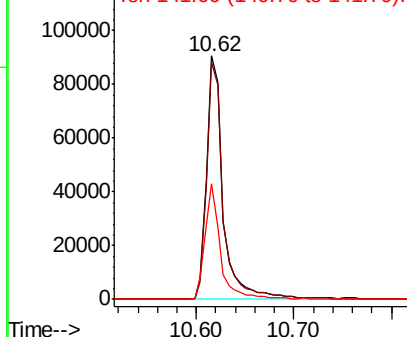


Abundance

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: 97.880 ng

RT: 9.15 min Scan# 1200

Delta R.T. -0.01 min

Lab File: BF117406.D

Acq: 14 Oct 2019 19:20

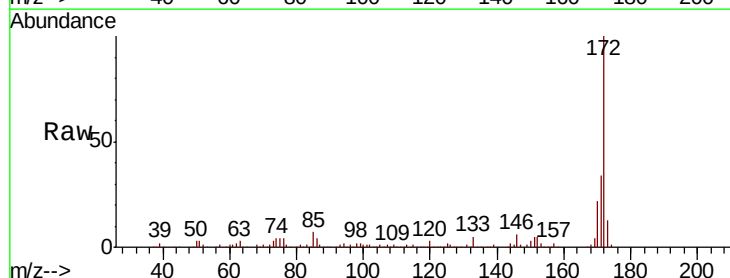
Tgt Ion:172 Resp: 553002

Ion Ratio Lower Upper

172 100

171 34.1 28.2 42.2

170 22.4 18.2 27.2

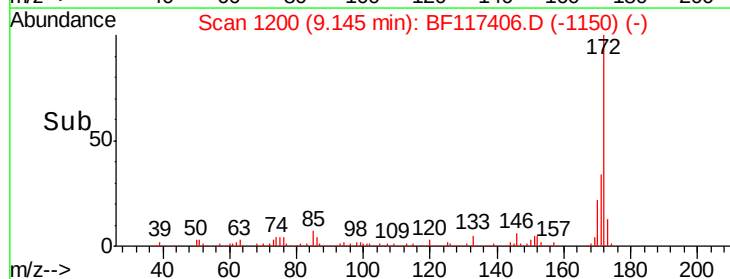
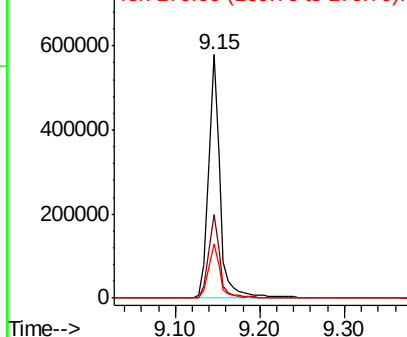


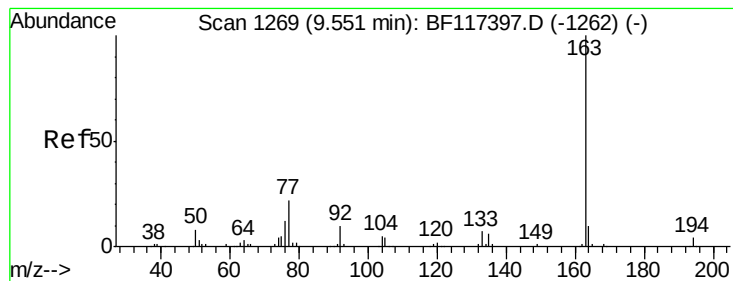
Abundance

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: 2.885 ng

RT: 9.55 min Scan# 1268

Delta R.T. -0.01 min

Lab File: BF117406.D

Acq: 14 Oct 2019 19:20

Instrument :

BNA\_F

ClientSampleId :

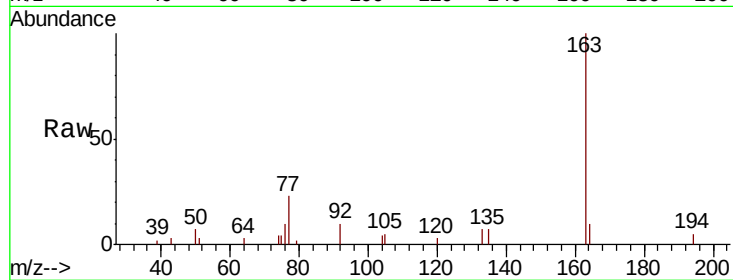
Tot Ion:163 Resp: 17068

Ion Ratio Lower Upper

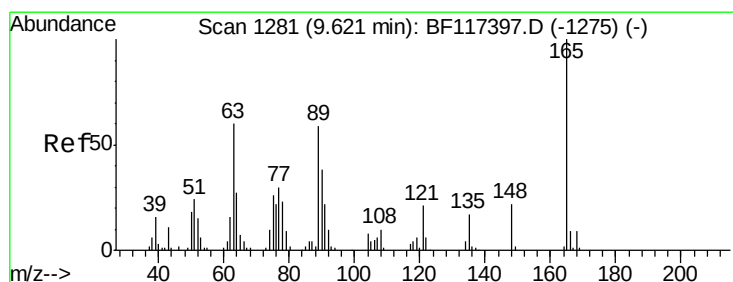
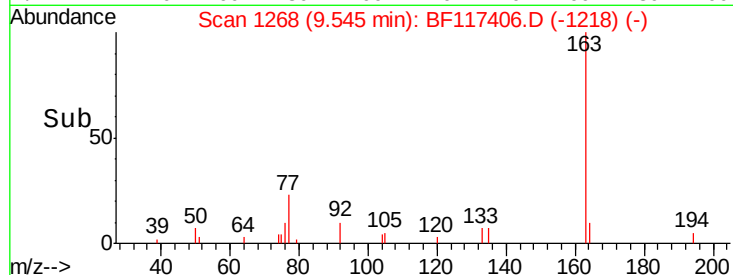
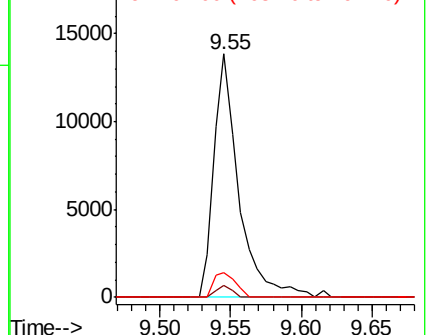
163 100

194 4.6 3.1 4.7

164 10.4 8.0 12.0



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: 8.142 ng

RT: 9.82 min Scan# 1315

Delta R.T. 0.20 min

Lab File: BF117406.D

Acq: 14 Oct 2019 19:20

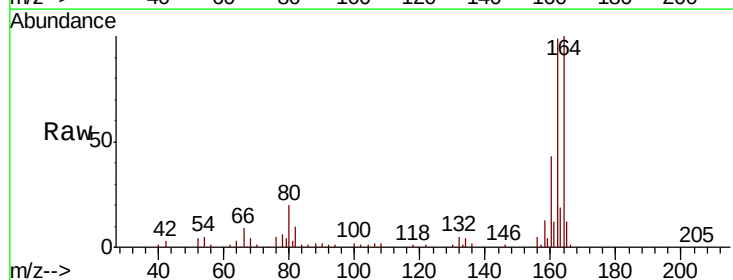
Tgt Ion:165 Resp: 10124

Ion Ratio Lower Upper

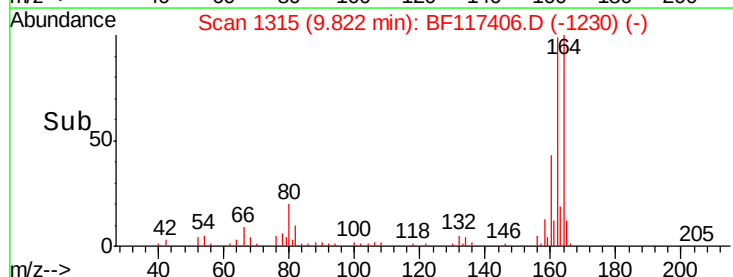
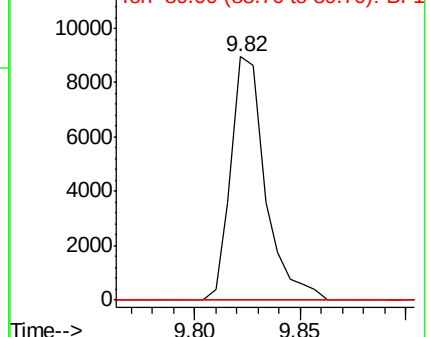
165 100

63 0.0 47.8 71.6#

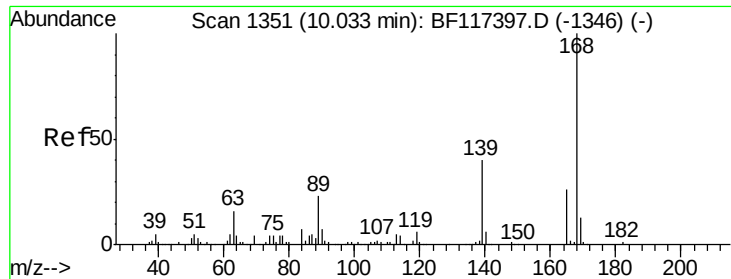
89 0.0 47.4 71.0#



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



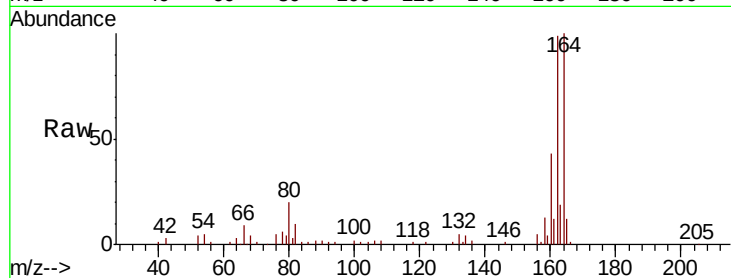




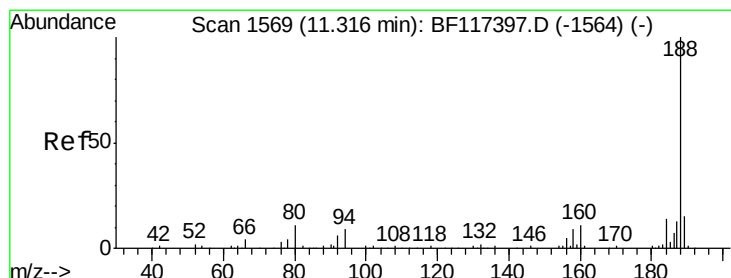
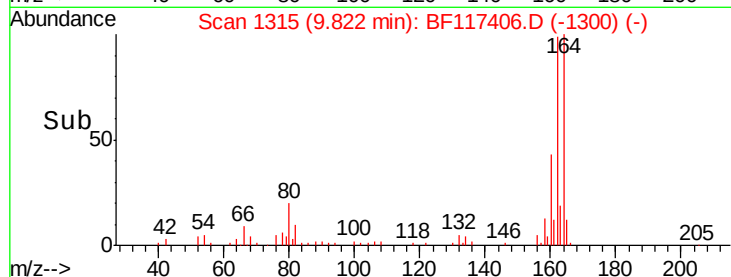
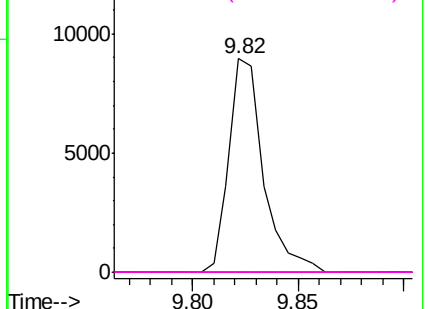
#57  
 2,4-Dinitrotoluene  
 Concen: 6.171 ng  
 RT: 9.82 min Scan# 1315  
 Delta R.T. -0.21 min  
 Lab File: BF117406.D  
 Acq: 14 Oct 2019 19:20

Instrument :  
 BNA\_F  
 ClientSampleID :

Tot Ion:165 Resp: 10124  
 Ion Ratio Lower Upper  
 165 100  
 63 0.0 51.0 76.4#  
 89 0.0 70.7 106.1#  
 182 0.0 2.1 3.1#

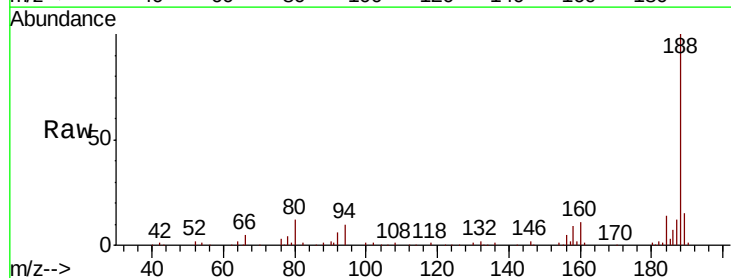


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BF1  
 Ion 89.00 (88.70 to 89.70): BF1  
 Ion 182.00 (181.70 to 182.70): E

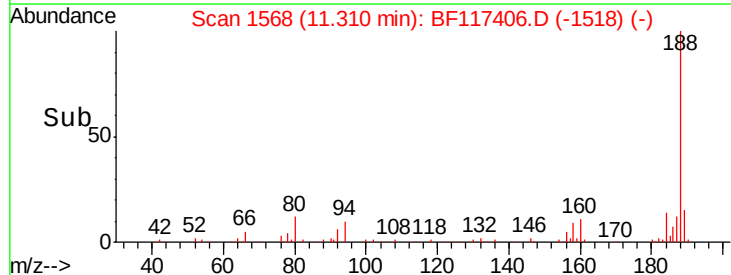
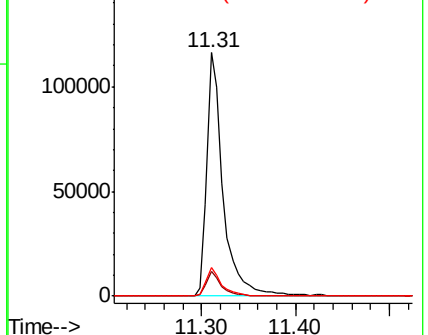


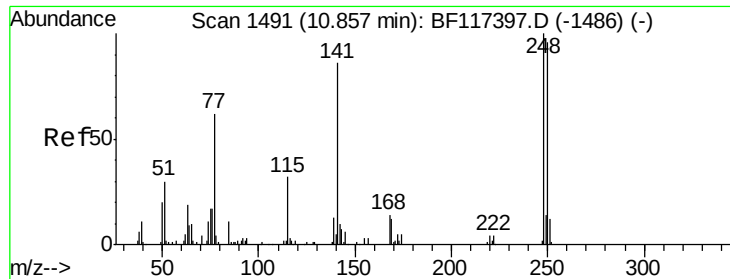
#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.31 min Scan# 1568  
 Delta R.T. -0.01 min  
 Lab File: BF117406.D  
 Acq: 14 Oct 2019 19:20

Tgt Ion:188 Resp: 142505  
 Ion Ratio Lower Upper  
 188 100  
 94 10.2 7.5 11.3  
 80 11.5 8.7 13.1



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

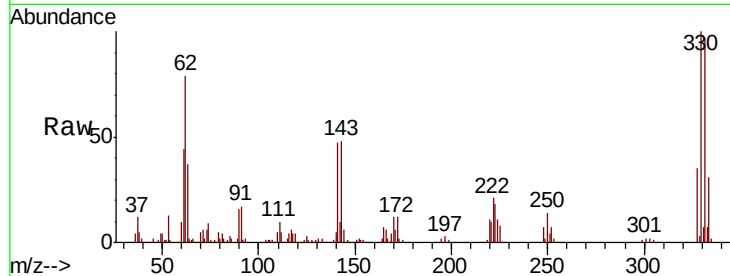




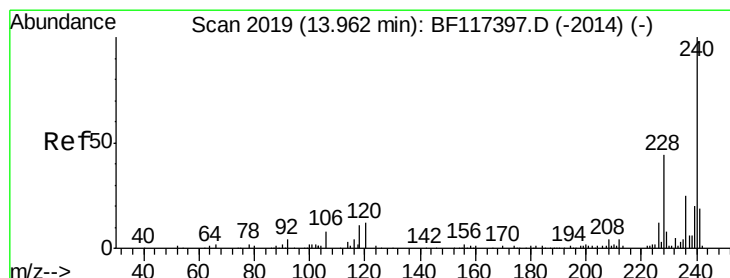
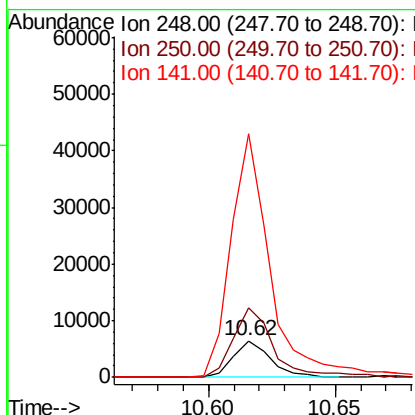
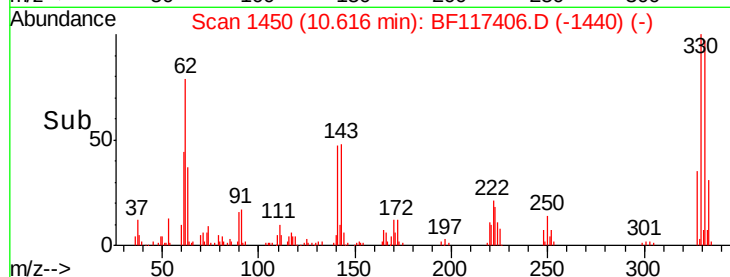
#67  
4-Bromophenyl-phenylether  
Concen: 4.230 ng  
RT: 10.62 min Scan# 1450  
Delta R.T. -0.24 min  
Lab File: BF117406.D  
Acq: 14 Oct 2019 19:20

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion:248 Resp: 6611  
Ion Ratio Lower Upper  
248 100  
250 191.5 77.1 115.7#  
141 667.5 69.1 103.7#

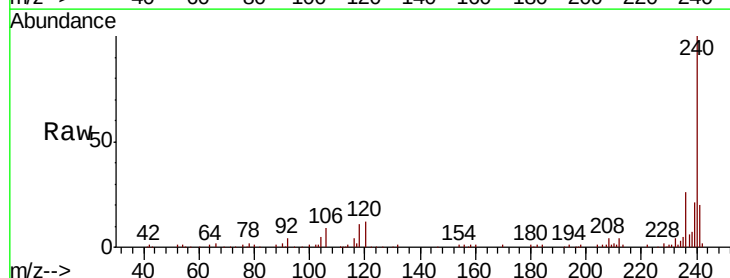


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

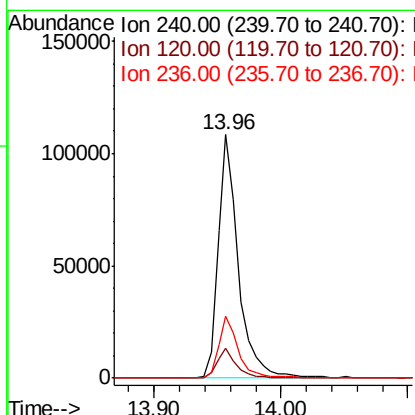
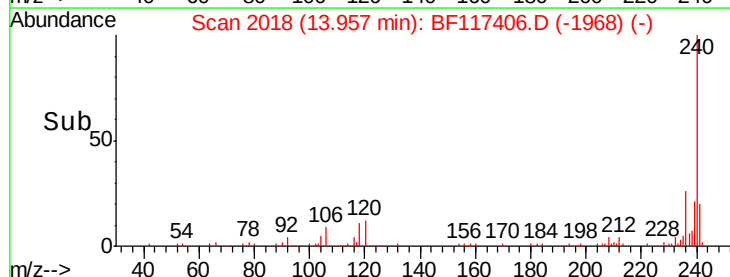


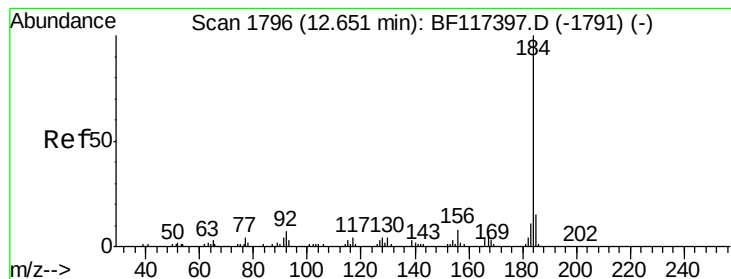
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.96 min Scan# 2018  
Delta R.T. -0.01 min  
Lab File: BF117406.D  
Acq: 14 Oct 2019 19:20

Tgt Ion:240 Resp: 121215  
Ion Ratio Lower Upper  
240 100  
120 12.4 9.4 14.0  
236 25.5 19.8 29.6



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: 2.788 ng

RT: 12.90 min Scan# 1838

Delta R.T. 0.25 min

Lab File: BF117406.D

Acq: 14 Oct 2019 19:20

Instrument :

BNA\_F

ClientSampleId :

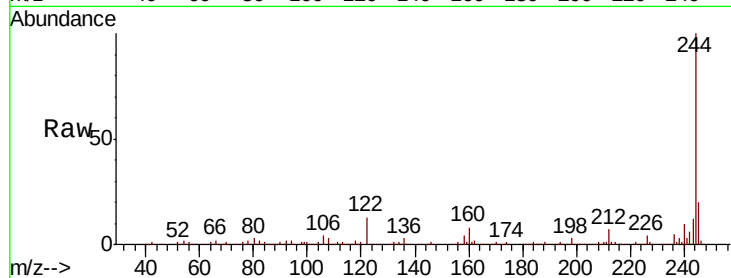
Tot Ion:184 Resp: 8358

Ion Ratio Lower Upper

184 100

185 17.9 12.2 18.2

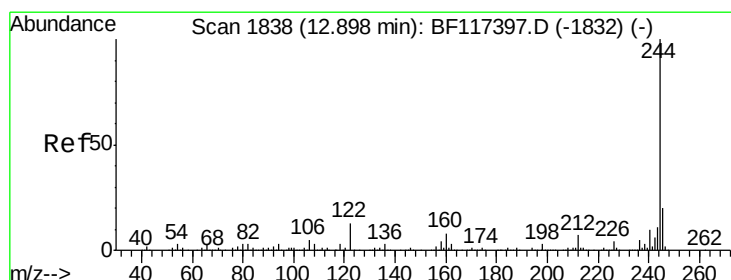
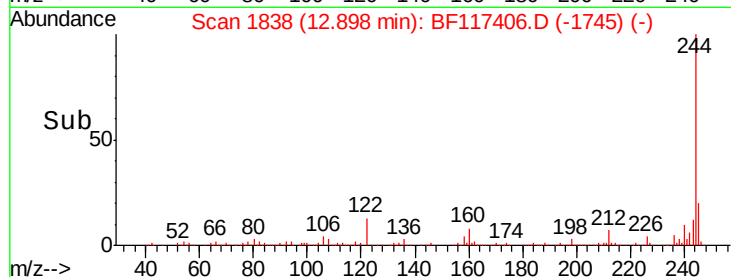
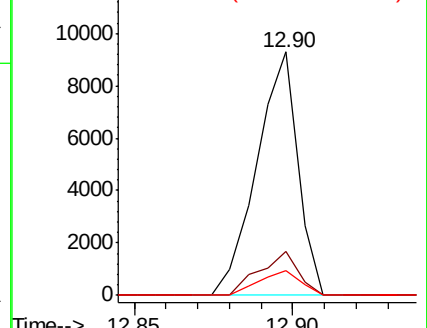
183 10.3 8.9 13.3



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: 83.059 ng

RT: 12.90 min Scan# 1838

Delta R.T. 0.00 min

Lab File: BF117406.D

Acq: 14 Oct 2019 19:20

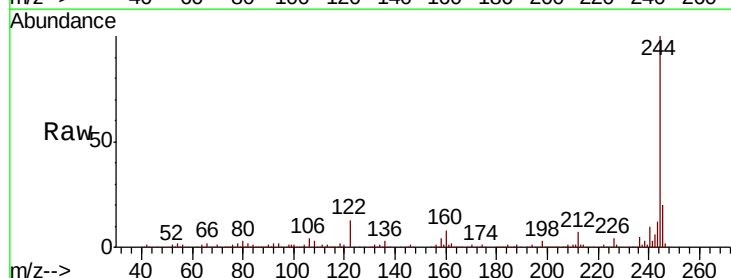
Tgt Ion:244 Resp: 617605

Ion Ratio Lower Upper

244 100

212 7.1 5.7 8.5

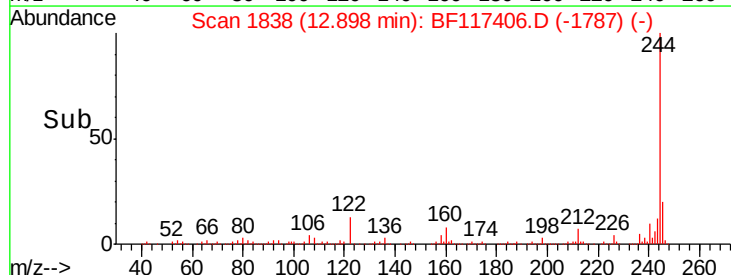
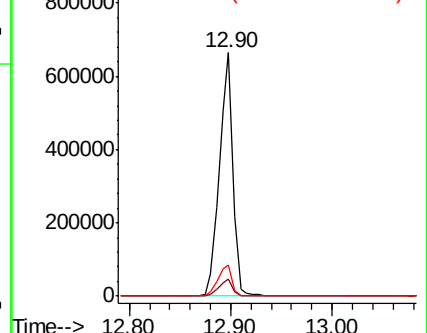
122 12.9 10.7 16.1

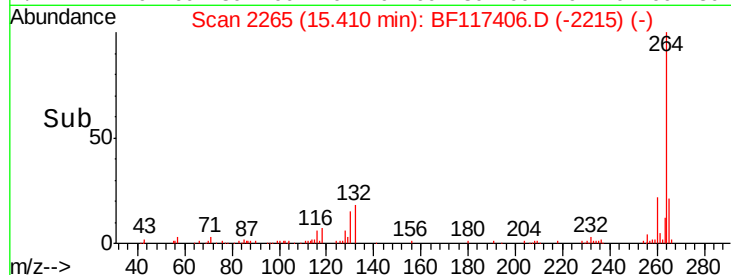
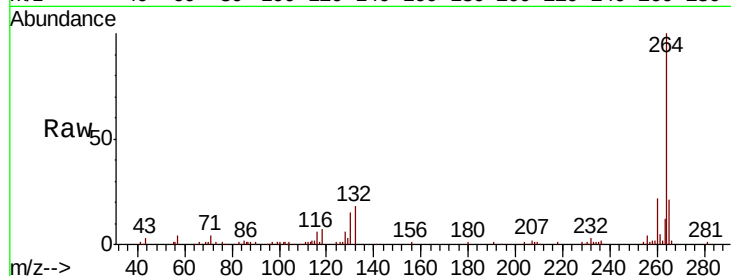
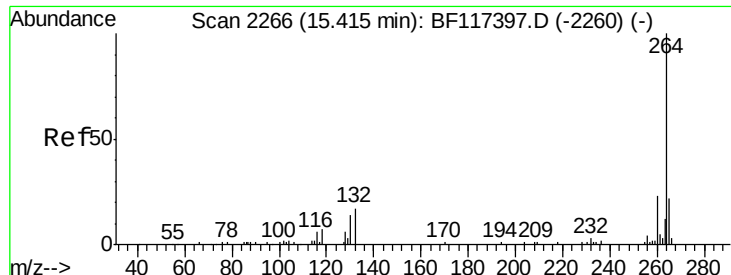


Abundance Ion 244.00 (243.70 to 244.70): E

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: 15.41 min Scan# 2265  
 Delta R.T. -0.01 min  
 Lab File: BF117406.D  
 Acq: 14 Oct 2019 19:20

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 21.8  | 18.6  | 27.8  |
| 265     | 20.8  | 17.4  | 26.0  |

