

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF070219\  
 Data File : BF115353.D  
 Acq On : 2 Jul 2019 10:16  
 Operator : HP/JU  
 Sample : PB121059BL  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Jul 02 12:00:09 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF062119.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jun 28 05:26:43 2019  
 Response via : Initial Calibration

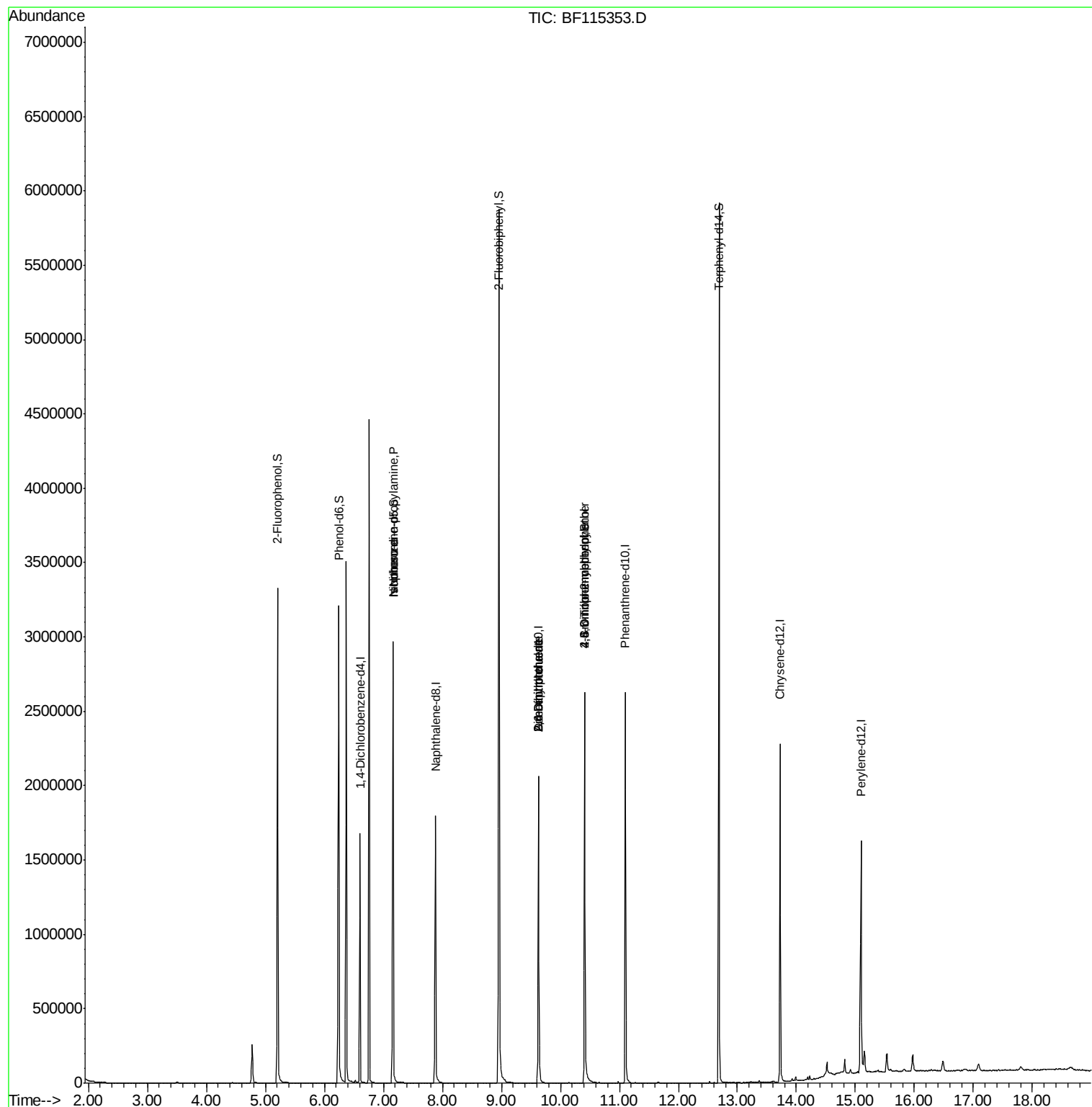
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.60  | 152  | 237409   | 20.00     | ng    | 0.00     |
| 21) Naphthalene-d8             | 7.88  | 136  | 952181   | 20.00     | ng    | 0.00     |
| 39) Acenaphthene-d10           | 9.63  | 164  | 480740   | 20.00     | ng    | 0.00     |
| 64) Phenanthrene-d10           | 11.10 | 188  | 987750   | 20.00     | ng    | 0.00     |
| 76) Chrysene-d12               | 13.72 | 240  | 766193   | 20.00     | ng    | 0.00     |
| 87) Perylene-d12               | 15.09 | 264  | 788421   | 20.00     | ng    | 0.01     |
| System Monitoring Compounds    |       |      |          |           |       |          |
| 5) 2-Fluorophenol              | 5.21  | 112  | 1044758  | 67.91     | ng    | 0.02     |
| 7) Phenol-d6                   | 6.24  | 99   | 1258750  | 67.41     | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.17  | 82   | 1139945  | 73.65     | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol       | 10.41 | 330  | 380631   | 75.08     | ng    | 0.00     |
| 45) 2-Fluorobiphenyl           | 8.96  | 172  | 2195128  | 77.56     | ng    | 0.00     |
| 79) Terphenyl-d14              | 12.69 | 244  | 2297578  | 63.76     | ng    | 0.00     |
| Target Compounds               |       |      |          |           |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.17  | 70   | 150600   | 12.598    | ng    | # 76     |
| 25) Isophorone                 | 7.17  | 82   | 1119408  | 35.303    | ng    | # 63     |
| 50) Dimethylphthalate          | 9.63  | 163  | 125867   | 3.559     | ng    | # 1      |
| 51) 2,6-Dinitrotoluene         | 9.63  | 165  | 62149    | 7.611     | ng    | # 29     |
| 57) 2,4-Dinitrotoluene         | 9.63  | 165  | 62149    | 5.895     | ng    | # 30     |
| 58) Fluorene                   | 10.41 | 166  | 17573    | Below Cal |       | # 86     |
| 65) 4,6-Dinitro-2-methylphenol | 10.41 | 198  | 636      | 5.068     | ng    | # 1      |
| 67) 4-Bromophenyl-phenylether  | 10.41 | 248  | 23839    | 2.226     | ng    | # 1      |

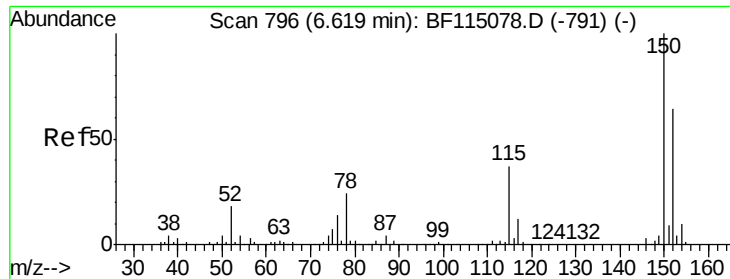
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF070219\  
Data File : BF115353.D  
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Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_F  
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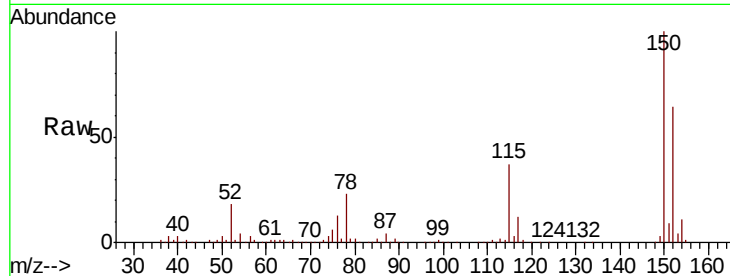


#1

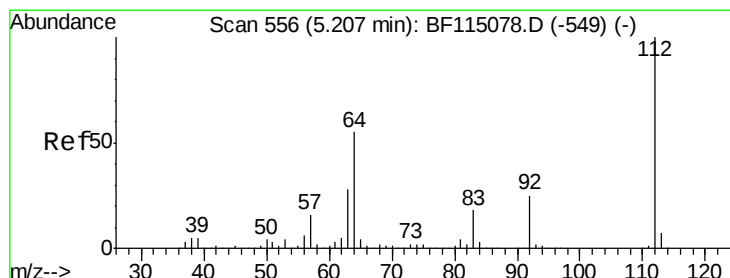
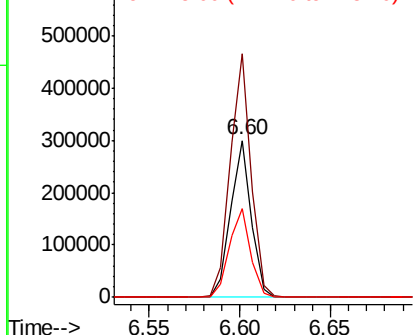
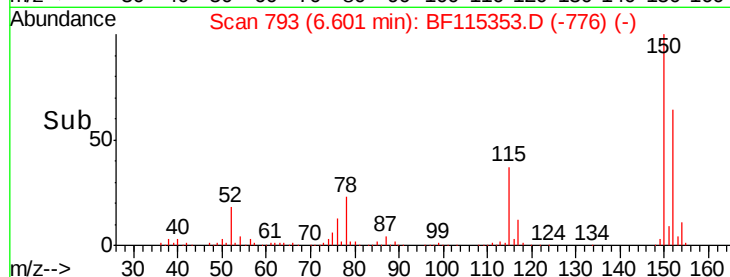
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.60 min Scan# 793  
Delta R.T. 0.00 min  
Lab File: BF115353.D  
Acq: 2 Jul 2019 10:16

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 237409  
Ion Ratio Lower Upper  
152 100  
150 155.5 124.2 186.2  
115 57.1 46.1 69.1



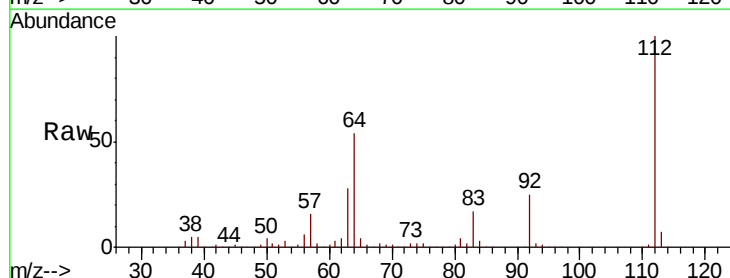
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



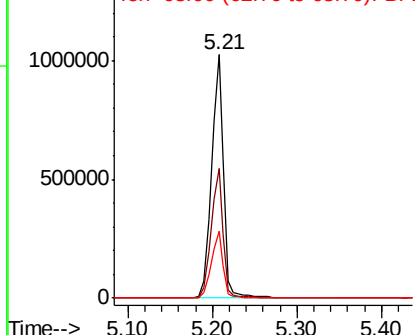
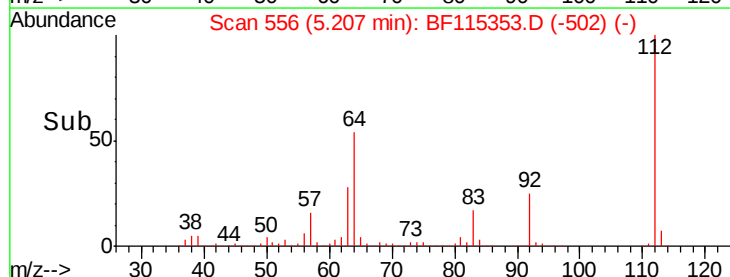
#5

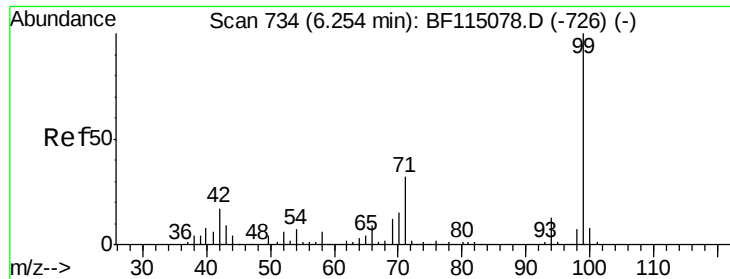
2-Fluorophenol  
Concen: 67.910 ng  
RT: 5.21 min Scan# 556  
Delta R.T. 0.02 min  
Lab File: BF115353.D  
Acq: 2 Jul 2019 10:16

Tgt Ion:112 Resp: 1044758  
Ion Ratio Lower Upper  
112 100  
64 53.5 43.8 65.6  
63 27.5 22.2 33.4



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: 67.410 ng

RT: 6.24 min Scan# 732

Delta R.T. 0.01 min

Lab File: BF115353.D

Acq: 2 Jul 2019 10:16

Instrument :

BNA\_F

ClientSampleId :

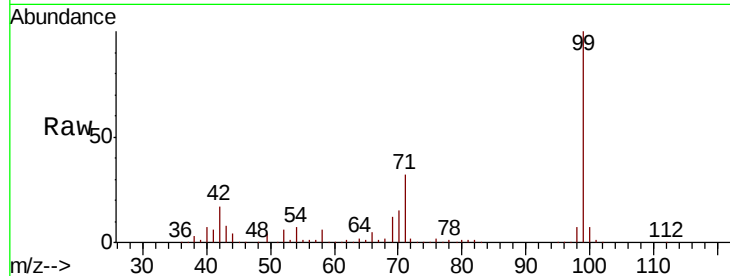
Tot Ion: 99 Resp: 1258750

Ion Ratio Lower Upper

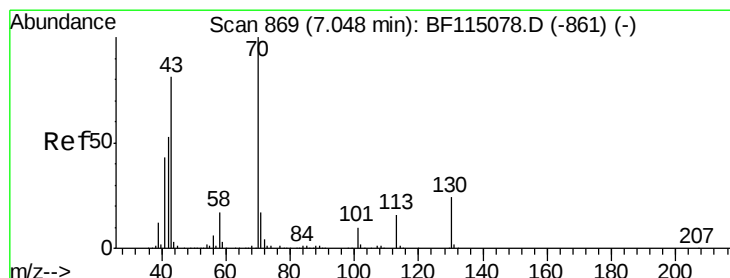
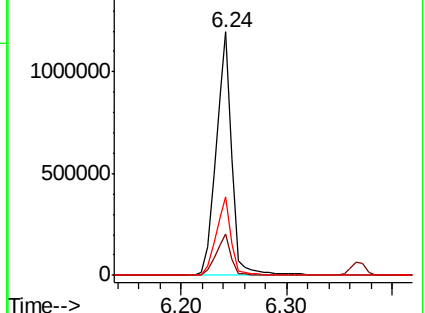
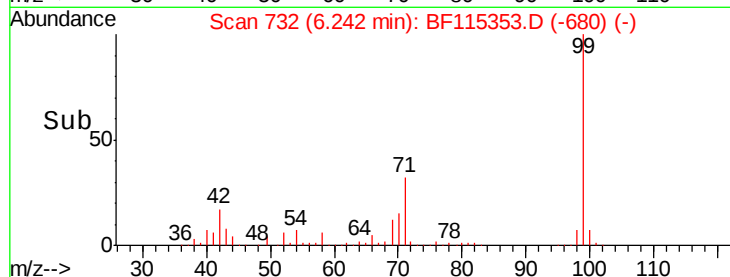
99 100

42 16.8 13.6 20.4

71 32.4 25.5 38.3



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: 12.598 ng

RT: 7.17 min Scan# 889

Delta R.T. 0.14 min

Lab File: BF115353.D

Acq: 2 Jul 2019 10:16

Tgt Ion: 70 Resp: 150600

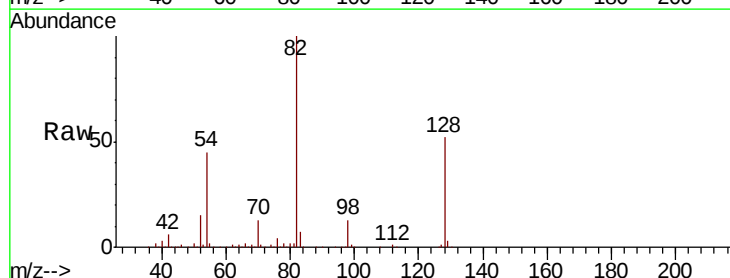
Ion Ratio Lower Upper

70 100

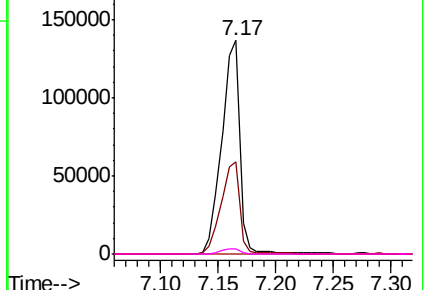
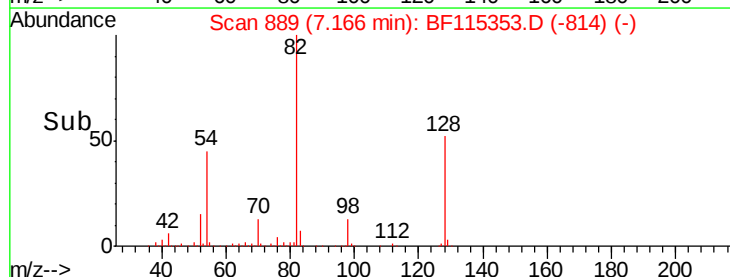
42 43.4 42.6 63.8

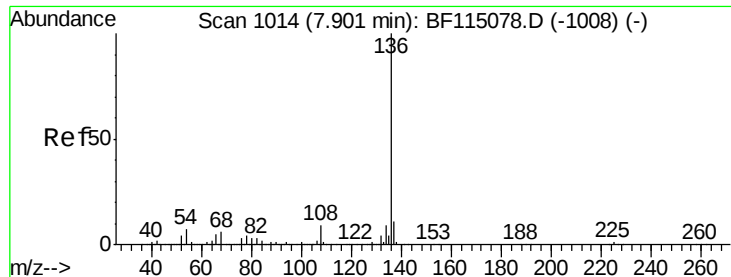
101 0.0 8.0 12.0#

130 2.6 19.4 29.0#



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: 7.88 min Scan# 1011

Delta R.T. 0.00 min

Lab File: BF115353.D

Acq: 2 Jul 2019 10:16

Instrument :

BNA\_F

ClientSampleId :

Tot Ion:136 Resp: 952181

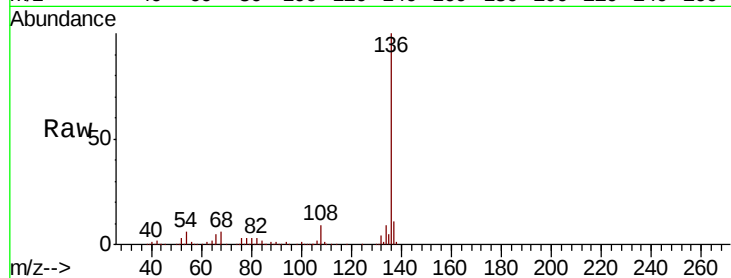
Ion Ratio Lower Upper

136 100

137 11.2 8.9 13.3

54 6.4 5.6 8.4

68 5.5 4.8 7.2

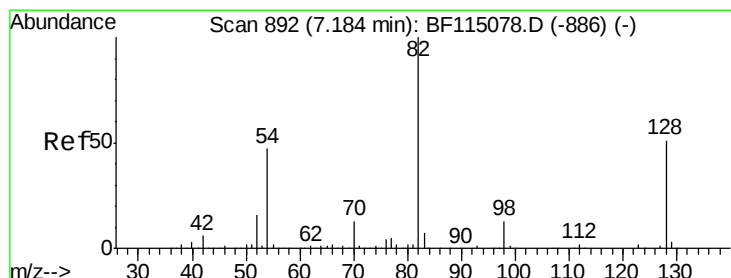
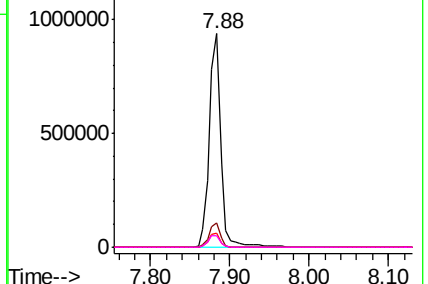
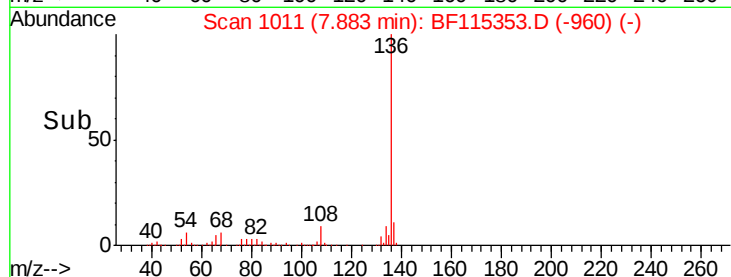


Abundance Ion 136.00 (135.70 to 136.70): E

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: 73.646 ng

RT: 7.17 min Scan# 889

Delta R.T. 0.00 min

Lab File: BF115353.D

Acq: 2 Jul 2019 10:16

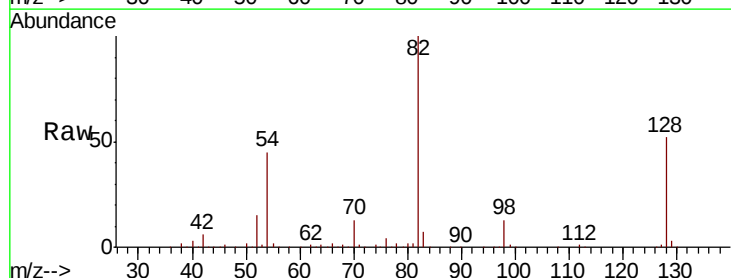
Tgt Ion: 82 Resp: 1139945

Ion Ratio Lower Upper

82 100

128 52.1 40.4 60.6

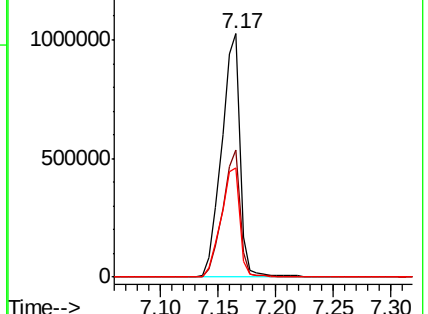
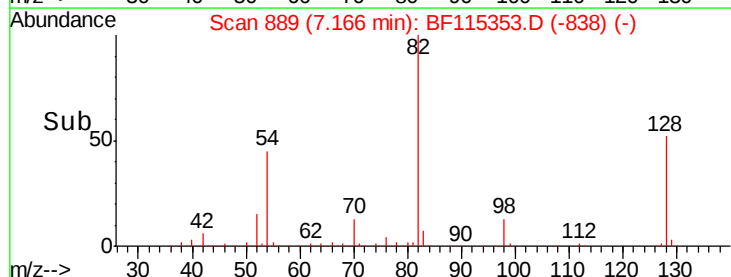
54 44.9 37.5 56.3



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: 35.303 ng

RT: 7.17 min Scan# 889

Delta R.T. -0.26 min

Lab File: BF115353.D

Acq: 2 Jul 2019 10:16

Instrument :

BNA\_F

ClientSampleId :

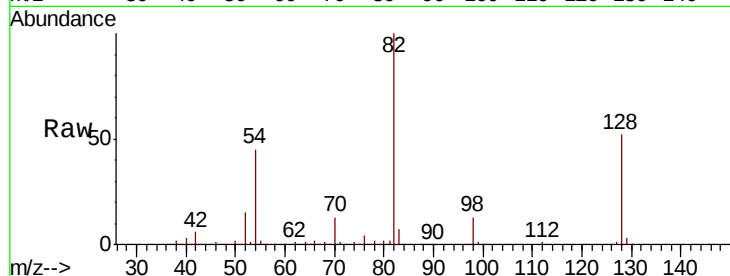
Tot Ion: 82 Resp: 1119408

Ion Ratio Lower Upper

82 100

95 0.0 5.4 8.2#

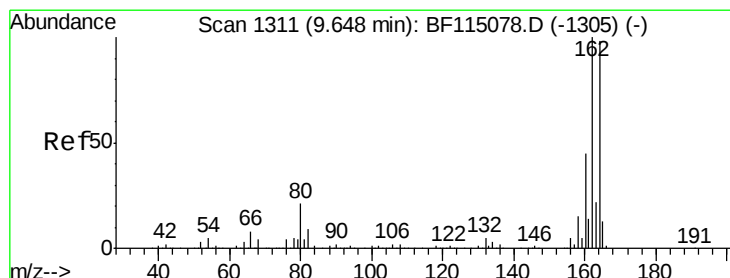
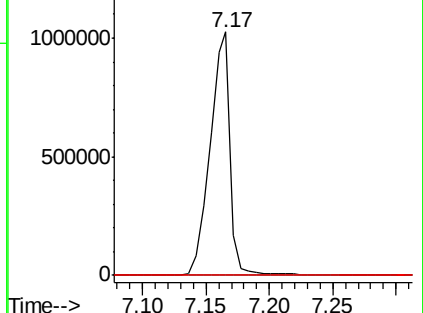
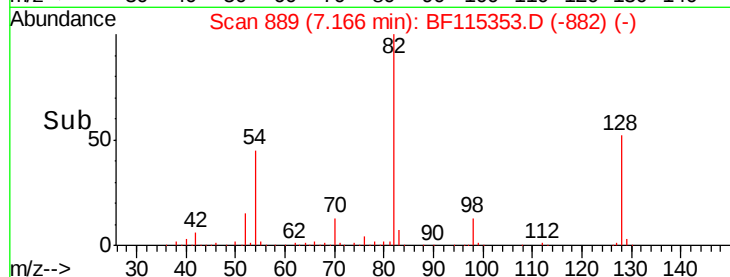
138 0.0 15.9 23.9#



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: 9.63 min Scan# 1308

Delta R.T. 0.01 min

Lab File: BF115353.D

Acq: 2 Jul 2019 10:16

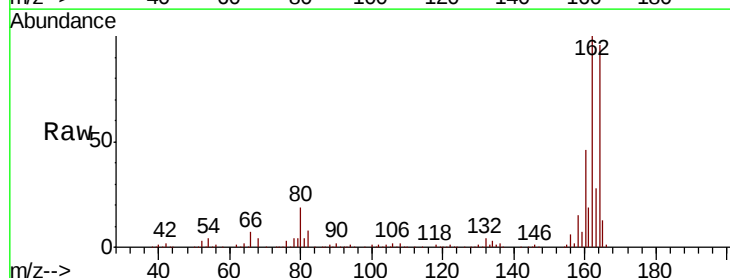
Tgt Ion:164 Resp: 480740

Ion Ratio Lower Upper

164 100

162 103.8 81.7 122.5

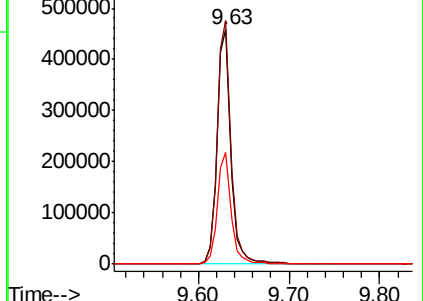
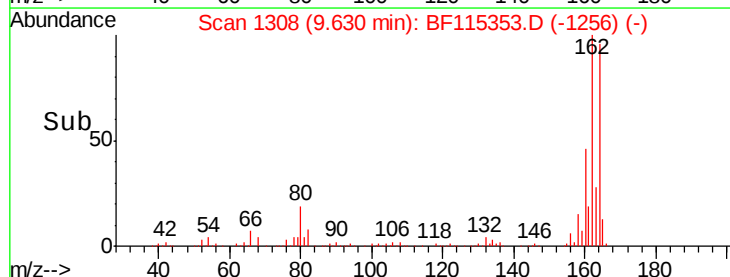
160 47.4 37.0 55.4

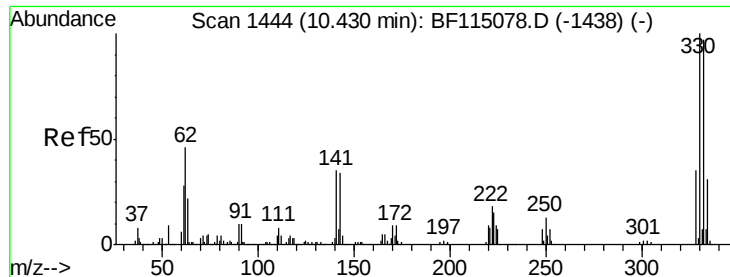


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#42

2,4,6-Tribromophenol

Concen: 75.081 ng

RT: 10.41 min Scan# 1441

Delta R.T. 0.01 min

Lab File: BF115353.D

Acq: 2 Jul 2019 10:16

Instrument :

BNA\_F

ClientSampleId :

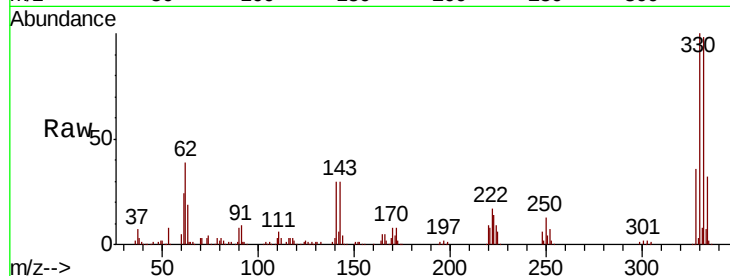
Tot Ion:330 Resp: 380631

Ion Ratio Lower Upper

330 100

332 98.9 77.3 115.9

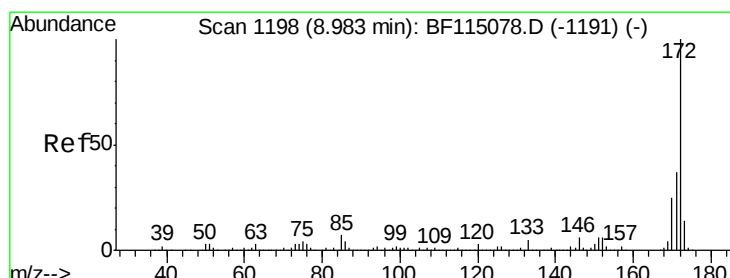
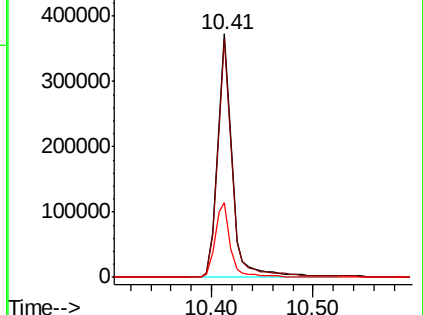
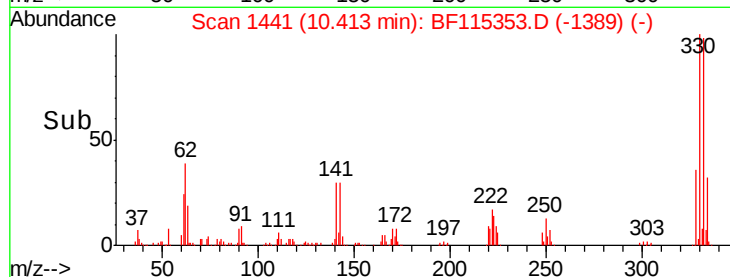
141 32.5 28.2 42.2



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: 77.562 ng

RT: 8.96 min Scan# 1194

Delta R.T. 0.00 min

Lab File: BF115353.D

Acq: 2 Jul 2019 10:16

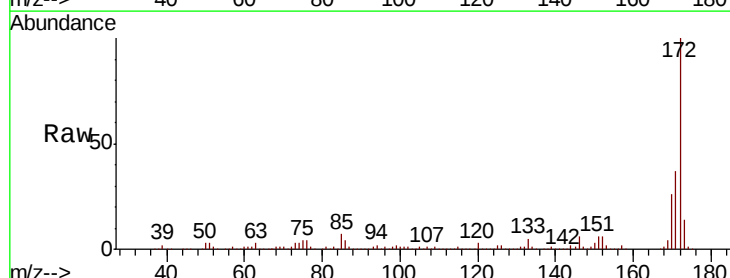
Tgt Ion:172 Resp: 2195128

Ion Ratio Lower Upper

172 100

171 37.1 29.8 44.6

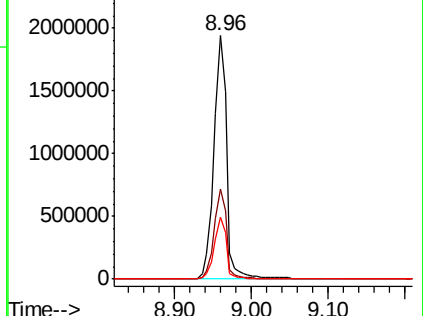
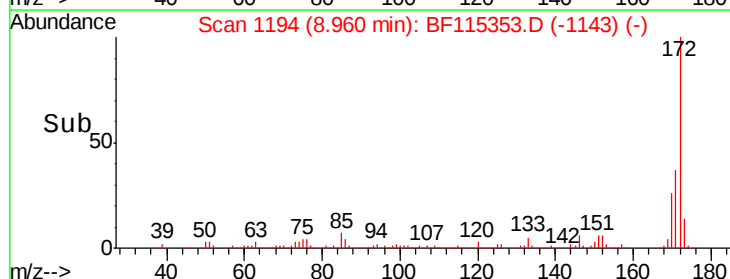
170 25.6 20.3 30.5



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: 3.559 ng

RT: 9.63 min Scan# 1308

Delta R.T. 0.27 min

Lab File: BF115353.D

Acq: 2 Jul 2019 10:16

Instrument :

BNA\_F

ClientSampleId :

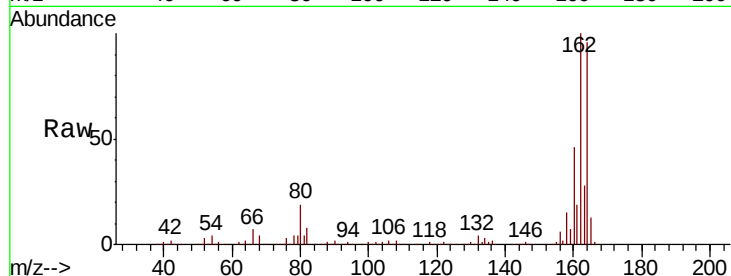
Tot Ion:163 Resp: 125867

Ion Ratio Lower Upper

163 100

194 0.0 3.2 4.8#

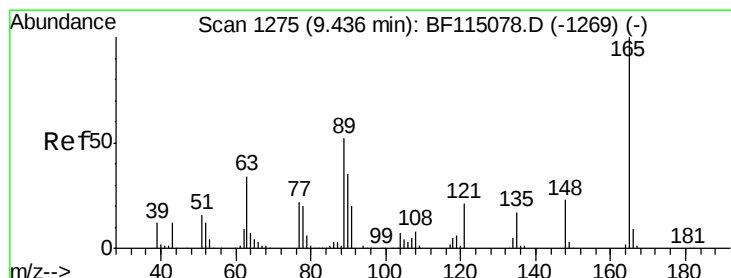
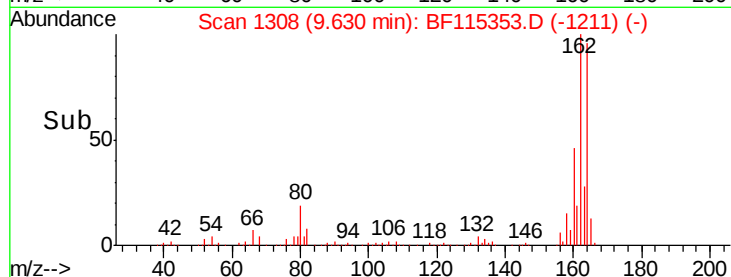
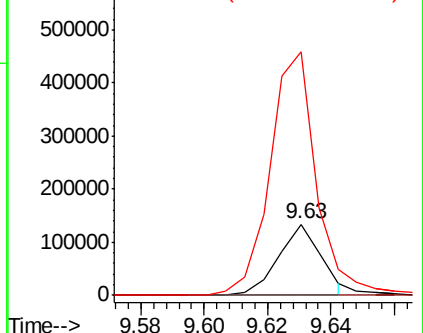
164 342.0 8.6 13.0#



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: 7.611 ng

RT: 9.63 min Scan# 1308

Delta R.T. 0.22 min

Lab File: BF115353.D

Acq: 2 Jul 2019 10:16

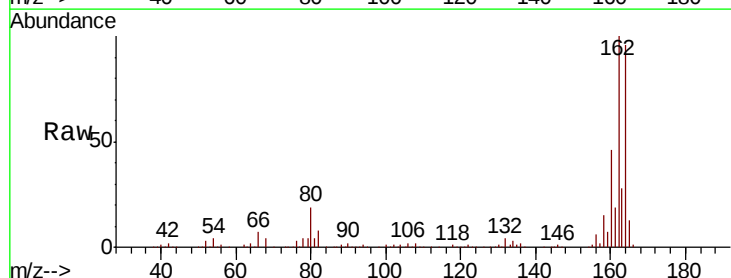
Tgt Ion:165 Resp: 62149

Ion Ratio Lower Upper

165 100

63 1.1 39.4 59.2#

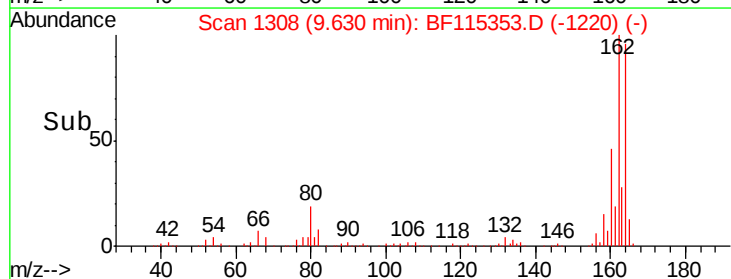
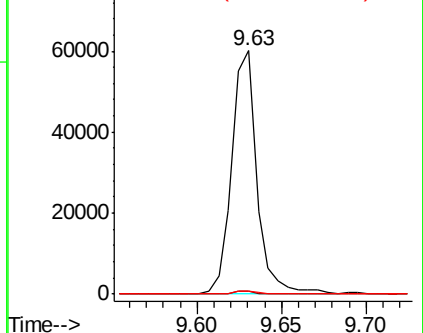
89 1.3 42.0 63.0#

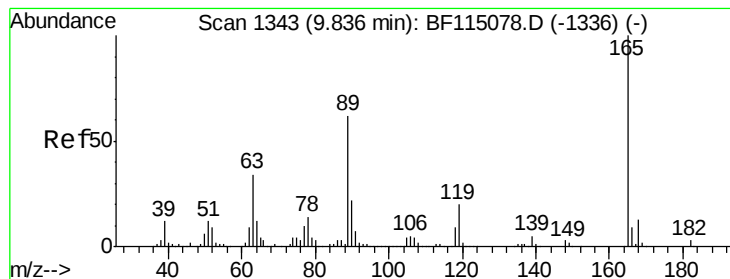


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

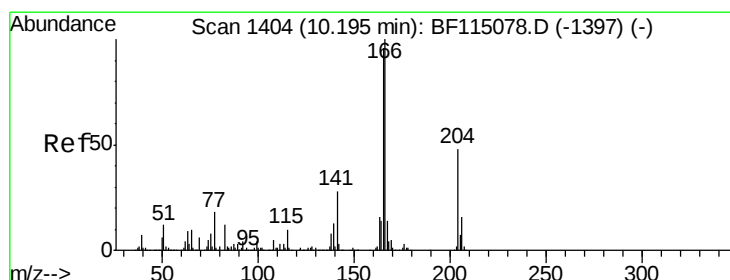
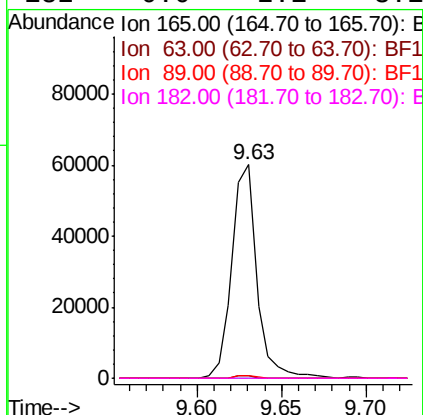
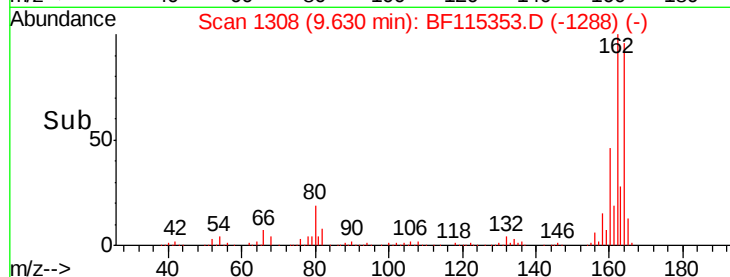
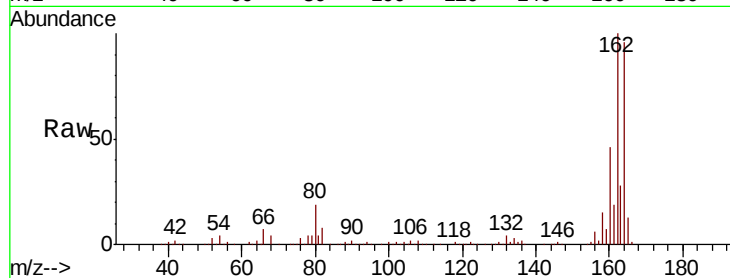




#57  
 2,4-Dinitrotoluene  
 Concen: 5.895 ng  
 RT: 9.63 min Scan# 1308  
 Delta R.T. -0.18 min  
 Lab File: BF115353.D  
 Acq: 2 Jul 2019 10:16

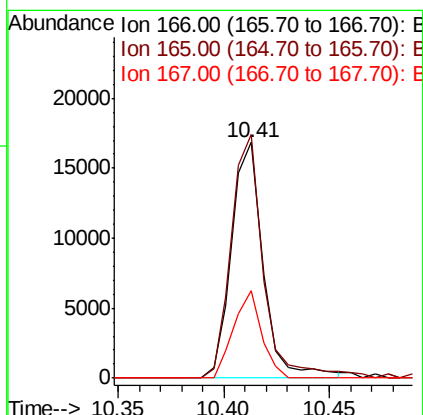
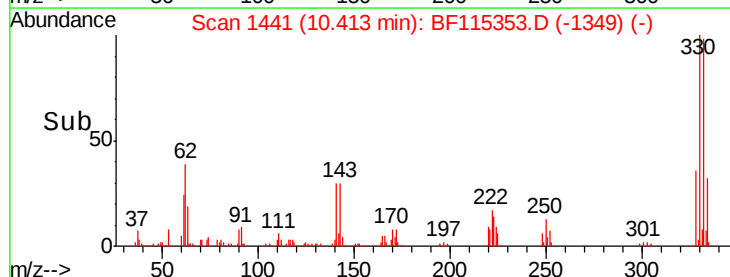
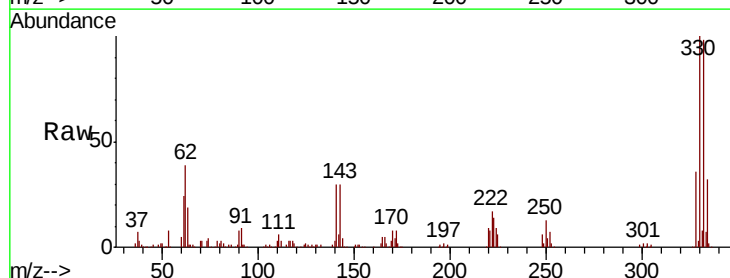
Instrument :  
 BNA\_F  
 ClientSampleId :

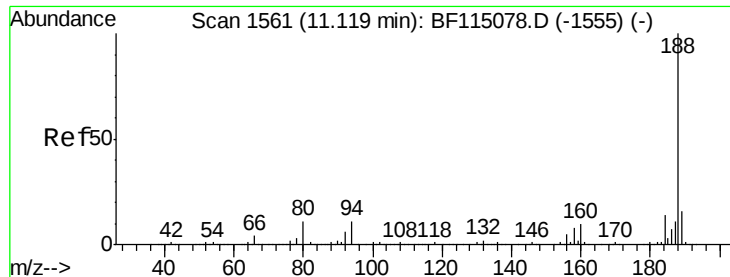
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 165   | Resp: | 62149 |
| Ion      | Ratio | Lower | Upper |
| 165      | 100   |       |       |
| 63       | 1.1   | 27.5  | 41.3# |
| 89       | 1.3   | 49.9  | 74.9# |
| 182      | 0.0   | 2.1   | 3.1#  |



#58  
 Fluorene  
 Concen: Below Cal  
 RT: 10.41 min Scan# 1441  
 Delta R.T. 0.24 min  
 Lab File: BF115353.D  
 Acq: 2 Jul 2019 10:16

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 166   | Resp: | 17573 |
| Ion      | Ratio | Lower | Upper |
| 166      | 100   |       |       |
| 165      | 103.3 | 76.5  | 114.7 |
| 167      | 37.4  | 11.0  | 16.4# |





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.10 min Scan# 1558

Delta R.T. 0.01 min

Lab File: BF115353.D

Acq: 2 Jul 2019 10:16

Instrument :

BNA\_F

ClientSampleId :

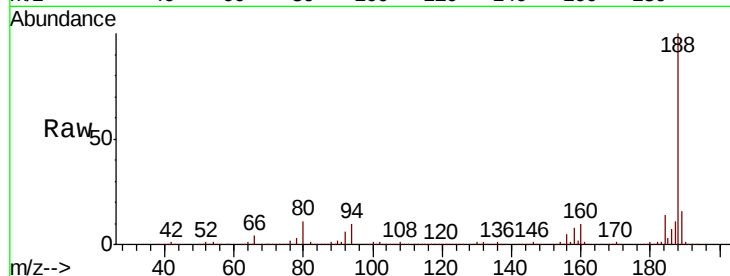
Tot Ion:188 Resp: 987750

Ion Ratio Lower Upper

188 100

94 10.1 8.6 12.8

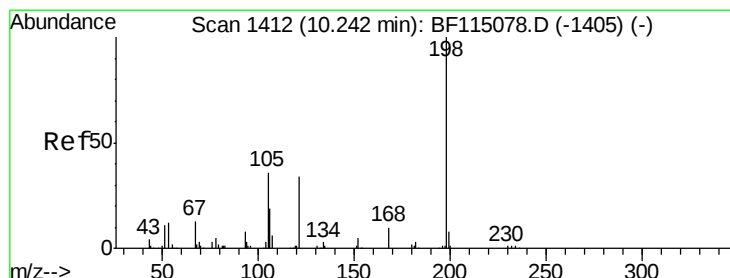
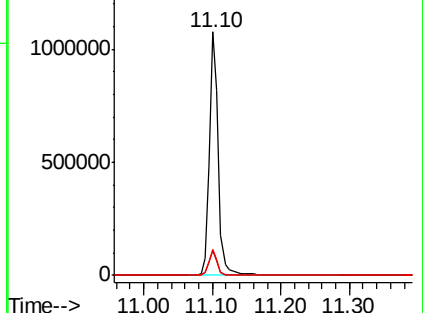
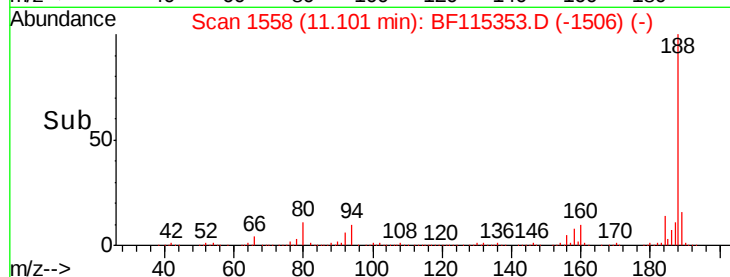
80 10.7 8.8 13.2



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



#65

4,6-Dinitro-2-methylphenol

Concen: 5.068 ng

RT: 10.41 min Scan# 1441

Delta R.T. 0.19 min

Lab File: BF115353.D

Acq: 2 Jul 2019 10:16

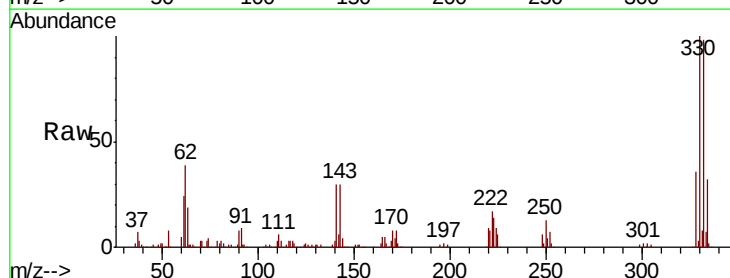
Tgt Ion:198 Resp: 636

Ion Ratio Lower Upper

198 100

51 111.0 11.0 51.0#

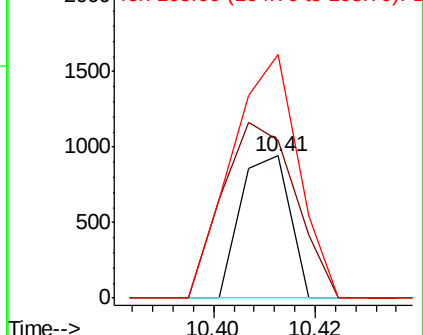
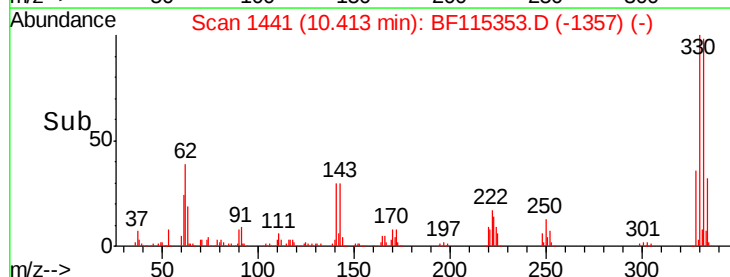
105 171.1 17.3 57.3#

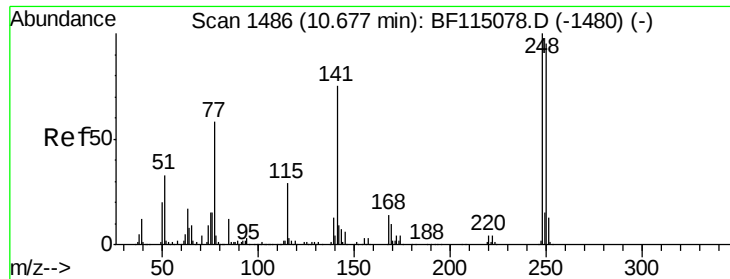


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF1

Ion 105.00 (104.70 to 105.70): E





#67

4-Bromophenyl-phenylether

Concen: 2.226 ng

RT: 10.41 min Scan# 1441

Delta R.T. -0.24 min

Lab File: BF115353.D

Acq: 2 Jul 2019 10:16

Instrument :

BNA\_F

ClientSampled :

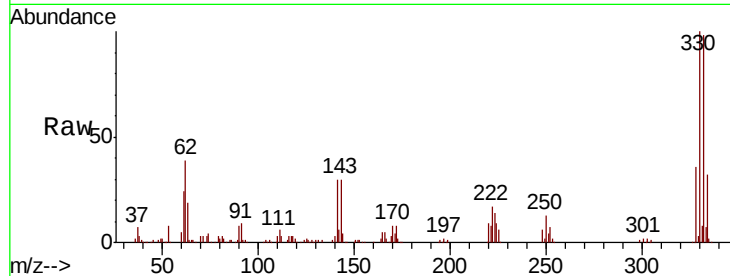
Tot Ion:248 Resp: 23839

Ion Ratio Lower Upper

248 100

250 203.9 76.2 114.2#

141 472.1 59.6 89.4#

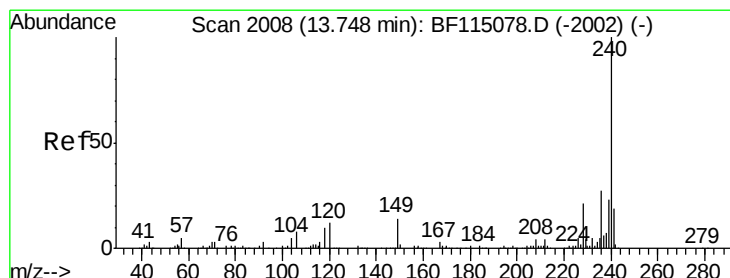
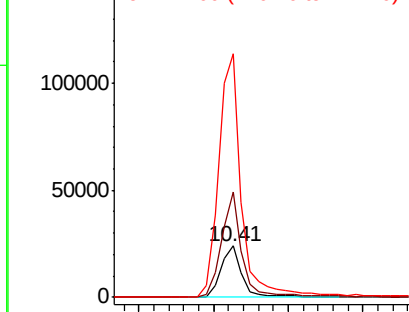
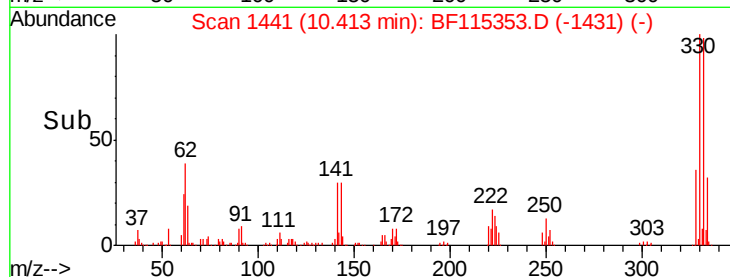


Abundance

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: 13.72 min Scan# 2004

Delta R.T. 0.01 min

Lab File: BF115353.D

Acq: 2 Jul 2019 10:16

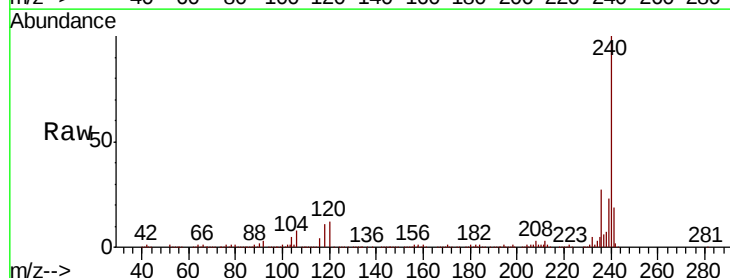
Tgt Ion:240 Resp: 766193

Ion Ratio Lower Upper

240 100

120 11.9 9.4 14.2

236 26.7 21.7 32.5

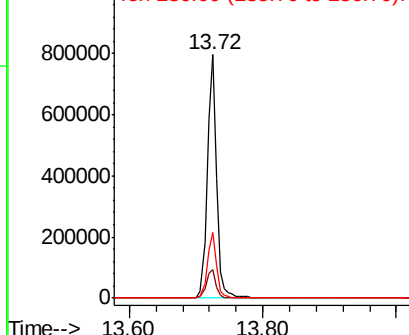
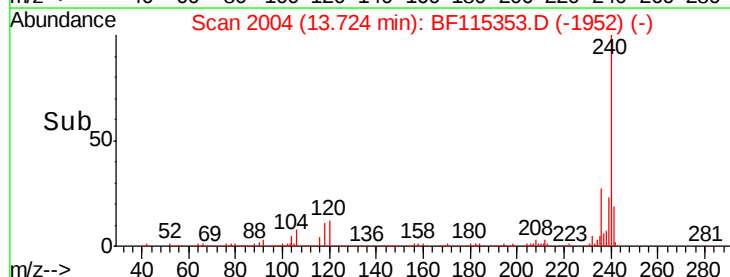


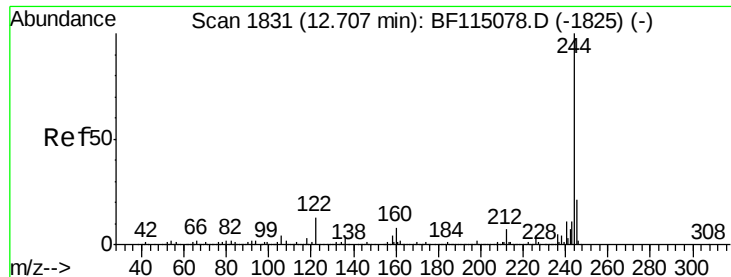
Abundance

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: 63.757 ng

RT: 12.69 min Scan# 1828

Delta R.T. 0.01 min

Lab File: BF115353.D

Acq: 2 Jul 2019 10:16

Instrument :

BNA\_F

ClientSampleId :

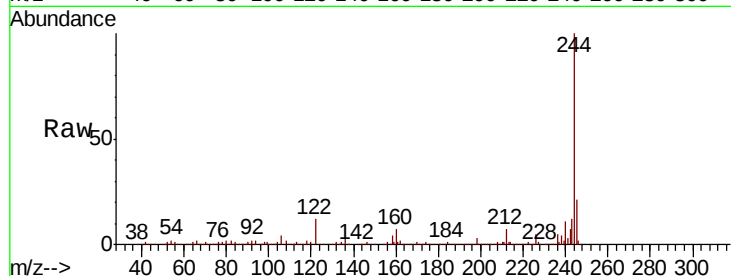
Tot Ion:244 Resp: 2297578

Ion Ratio Lower Upper

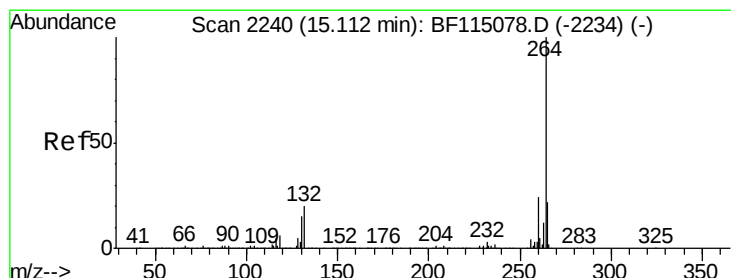
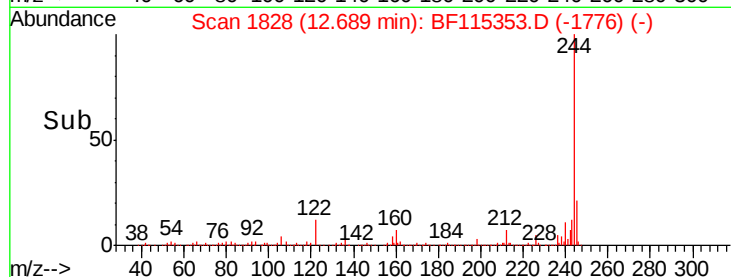
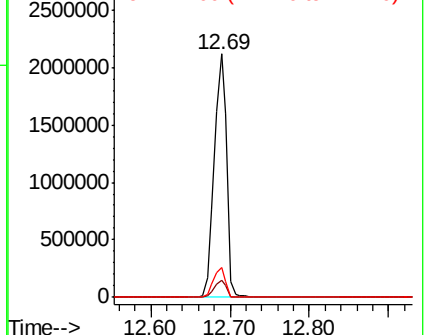
244 100

212 7.2 5.8 8.6

122 12.1 10.4 15.6



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

Perylene-d12

Concen: 20.000 ng

RT: 15.09 min Scan# 2237

Delta R.T. 0.01 min

Lab File: BF115353.D

Acq: 2 Jul 2019 10:16

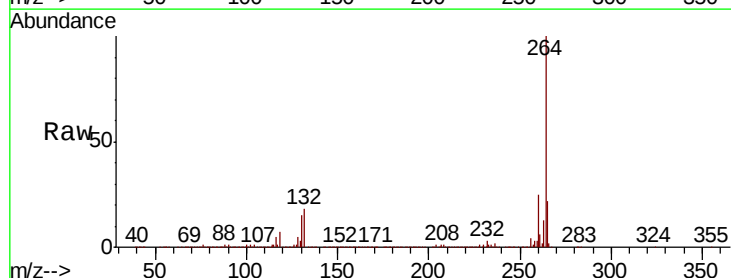
Tgt Ion:264 Resp: 788421

Ion Ratio Lower Upper

264 100

260 24.6 19.6 29.4

265 21.9 17.3 25.9



Abundance Ion 264.00 (263.70 to 264.70): E  
Ion 260.00 (259.70 to 260.70): E  
Ion 265.00 (264.70 to 265.70): E

