

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121719\  
 Data File : BF118235.D  
 Acq On : 17 Dec 2019 19:23  
 Operator : JU  
 Sample : K6333-04  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Dec 18 05:05:08 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF120619.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Dec 06 17:34:43 2019  
 Response via : Initial Calibration

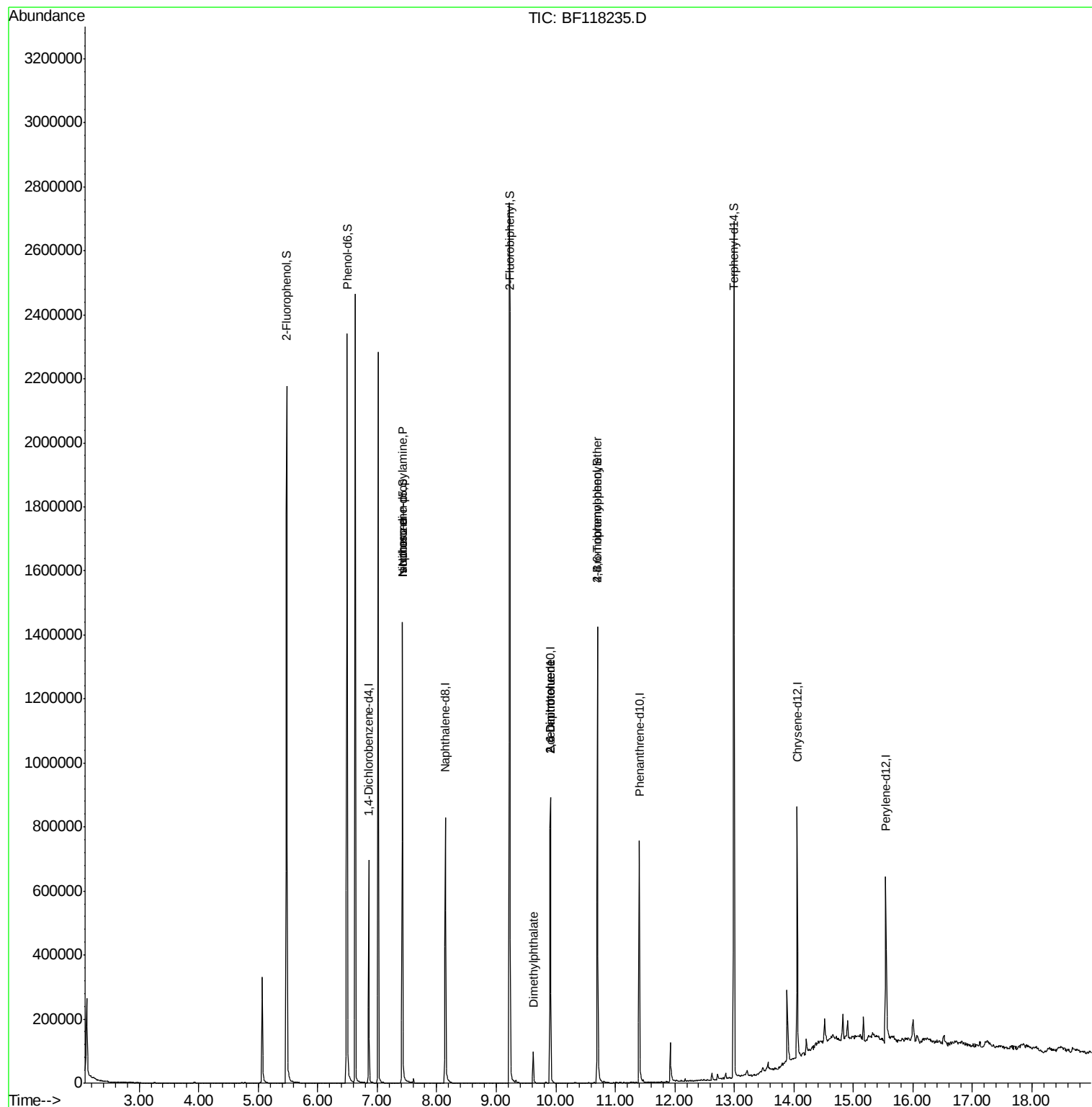
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.86  | 152  | 106614   | 20.00     | ng     | -0.01    |
| 21) Naphthalene-d8             | 8.15  | 136  | 402376   | 20.00     | ng     | -0.01    |
| 39) Acenaphthene-d10           | 9.91  | 164  | 192472   | 20.00     | ng     | -0.01    |
| 64) Phenanthrene-d10           | 11.40 | 188  | 313878   | 20.00     | ng     | 0.00     |
| 76) Chrysene-d12               | 14.06 | 240  | 252636   | 20.00     | ng     | -0.01    |
| 87) Perylene-d12               | 15.54 | 264  | 240374   | 20.00     | ng     | 0.00     |
| System Monitoring Compounds    |       |      |          |           |        |          |
| 5) 2-Fluorophenol              | 5.48  | 112  | 628101   | 103.19    | ng     | 0.00     |
| 7) Phenol-d6                   | 6.49  | 99   | 776075   | 105.41    | ng     | 0.00     |
| 23) Nitrobenzene-d5            | 7.42  | 82   | 463152   | 64.76     | ng     | -0.02    |
| 42) 2,4,6-Tribromophenol       | 10.70 | 330  | 198177   | 84.76     | ng     | -0.01    |
| 45) 2-Fluorobiphenyl           | 9.22  | 172  | 878225   | 69.43     | ng     | -0.02    |
| 79) Terphenyl-d14              | 12.99 | 244  | 837220   | 56.99     | ng     | -0.01    |
| Target Compounds               |       |      |          |           |        |          |
| 9) Benzaldehyde                | 6.49  | 77   | 1301     | Below Cal | Qvalue | # 1      |
| 19) n-Nitroso-di-n-propylamine | 7.42  | 70   | 62767    | 14.030    | ng     | # 77     |
| 25) Isophorone                 | 7.42  | 82   | 463148   | 38.198    | ng     | # 62     |
| 50) Dimethylphthalate          | 9.62  | 163  | 47762    | 3.360     | ng     | # 99     |
| 51) 2,6-Dinitrotoluene         | 9.91  | 165  | 24379    | 7.886     | ng     | # 28     |
| 57) 2,4-Dinitrotoluene         | 9.91  | 165  | 24379    | 5.908     | ng     | # 26     |
| 67) 4-Bromophenyl-phenylether  | 10.70 | 248  | 12037    | 3.359     | ng     | # 1      |

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

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BNA\_F  
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Dec 06 17:34:43 2019  
Response via : Initial Calibration



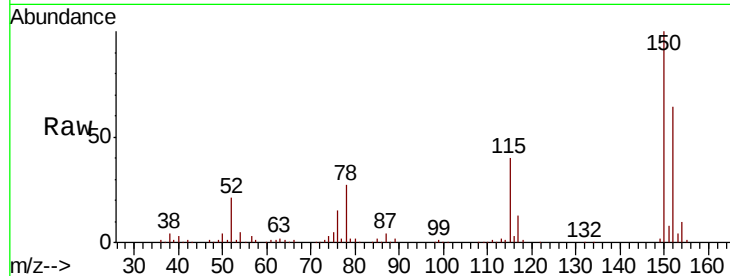


#1

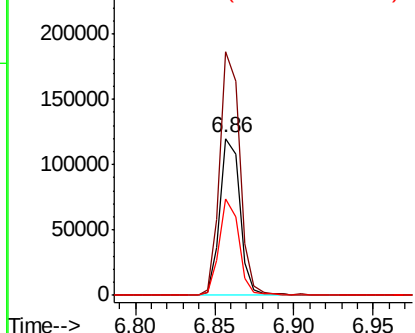
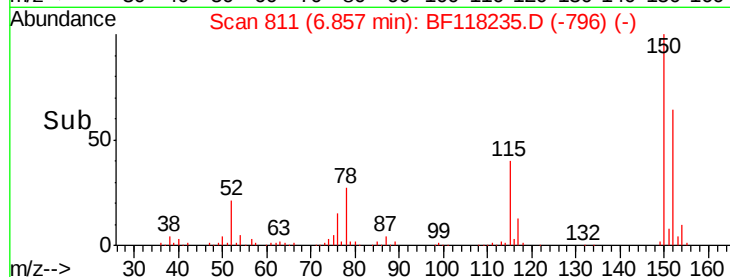
1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.86 min Scan# 811  
 Delta R.T. -0.01 min  
 Lab File: BF118235.D  
 Acq: 17 Dec 2019 19:23

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 155.4 | 128.3 | 192.5 |
| 115     | 61.4  | 51.1  | 76.7  |



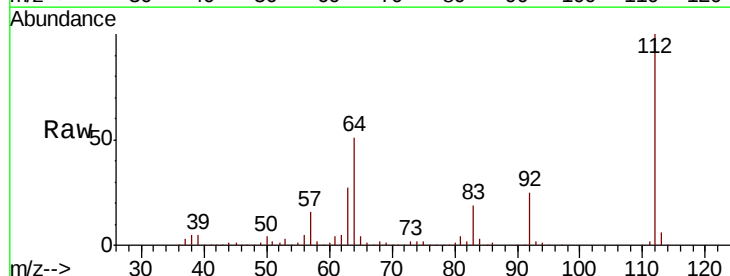
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



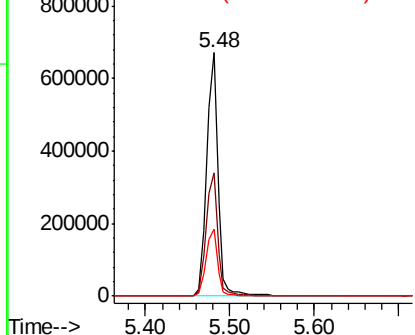
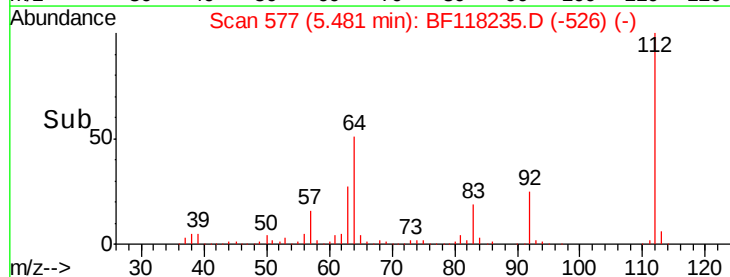
#5

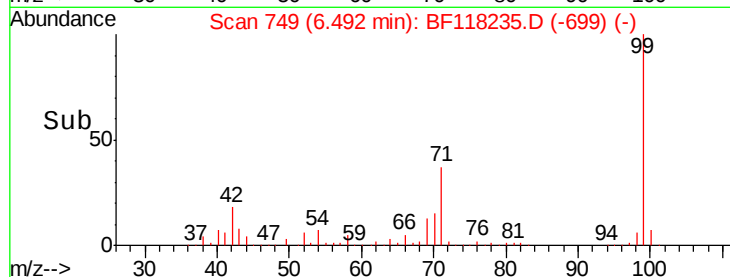
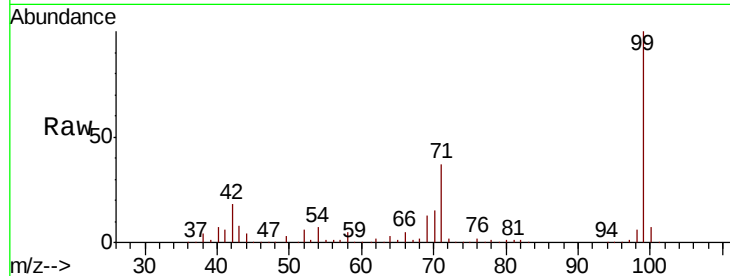
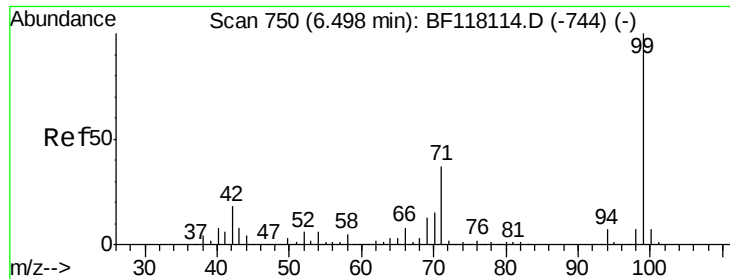
2-Fluorophenol  
 Concen: 103.185 ng  
 RT: 5.48 min Scan# 577  
 Delta R.T. -0.00 min  
 Lab File: BF118235.D  
 Acq: 17 Dec 2019 19:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 50.9  | 41.3  | 61.9  |
| 63      | 27.3  | 22.4  | 33.6  |



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: 105.408 ng

RT: 6.49 min Scan# 749

Delta R.T. -0.01 min

Lab File: BF118235.D

Acq: 17 Dec 2019 19:23

Tot Ion: 99 Resp: 776075

Ion Ratio Lower Upper

99 100

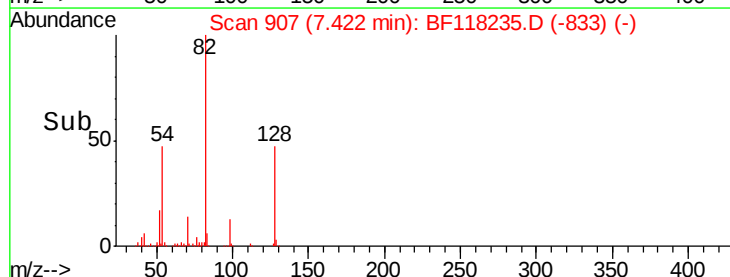
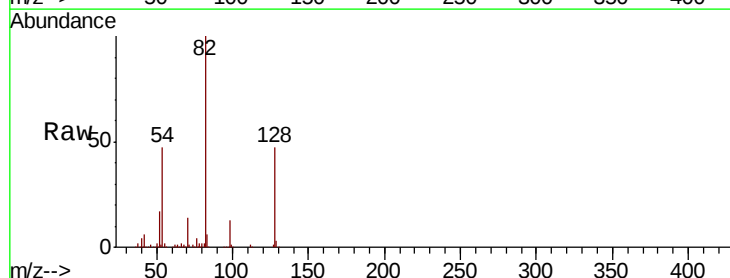
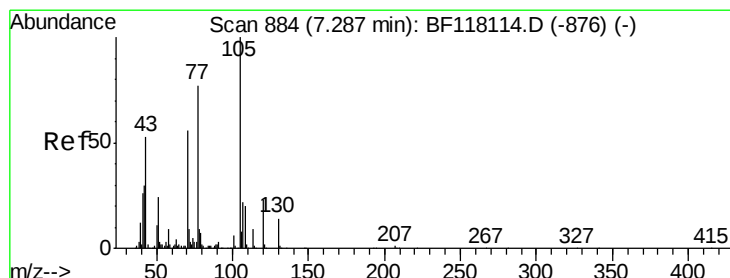
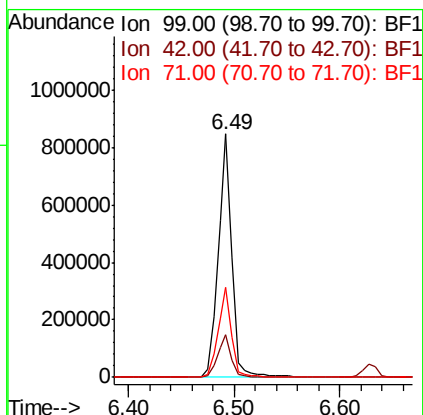
42 17.7 14.1 21.1

71 37.1 29.7 44.5

Instrument :

BNA\_F

ClientSampled :



#19

n-Nitroso-di-n-propylamine

Concen: 14.030 ng

RT: 7.42 min Scan# 907

Delta R.T. 0.14 min

Lab File: BF118235.D

Acq: 17 Dec 2019 19:23

Tgt Ion: 70 Resp: 62767

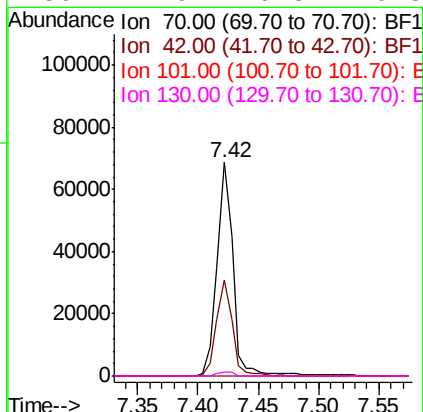
Ion Ratio Lower Upper

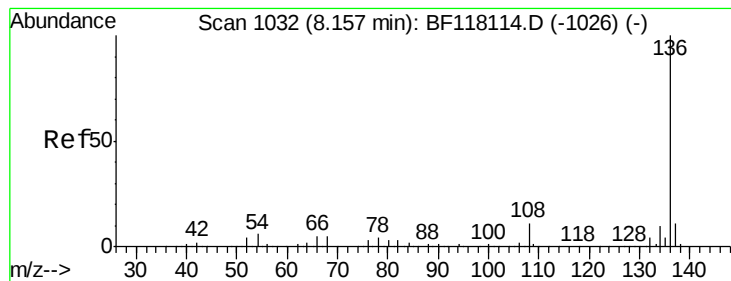
70 100

42 45.1 43.2 64.8

101 0.0 8.1 12.1#

130 1.9 19.8 29.8#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.15 min Scan# 1030

Delta R.T. -0.01 min

Lab File: BF118235.D

Acq: 17 Dec 2019 19:23

Instrument :

BNA\_F

ClientSampleId :

Tot Ion:136 Resp: 402376

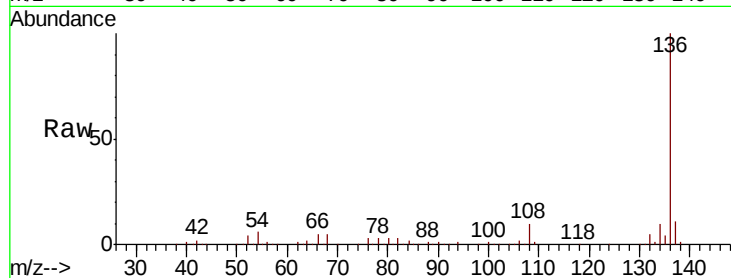
Ion Ratio Lower Upper

136 100

137 10.7 9.0 13.6

54 6.4 5.0 7.6

68 4.7 3.8 5.8

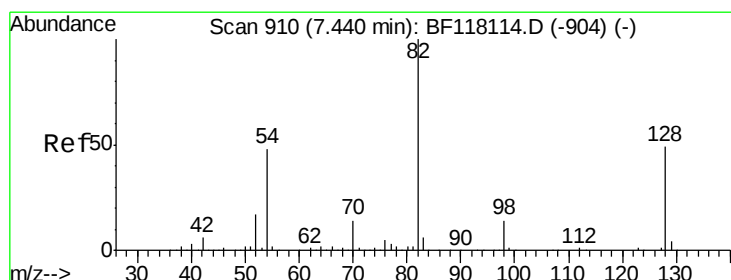
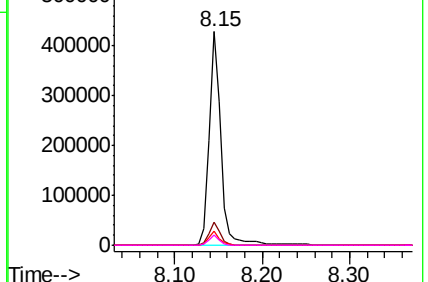
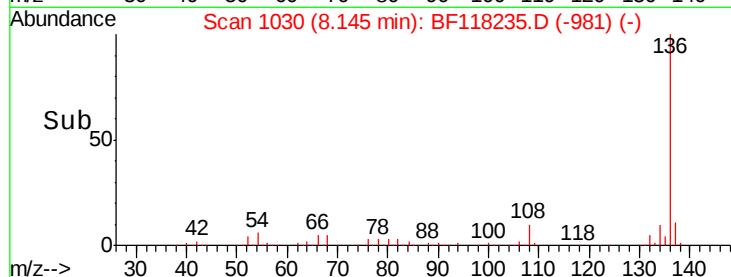


Abundance Ion 136.00 (135.70 to 136.70): E

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: 64.755 ng

RT: 7.42 min Scan# 907

Delta R.T. -0.02 min

Lab File: BF118235.D

Acq: 17 Dec 2019 19:23

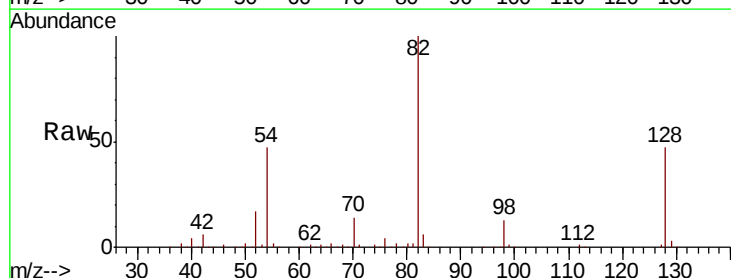
Tgt Ion: 82 Resp: 463152

Ion Ratio Lower Upper

82 100

128 47.5 39.1 58.7

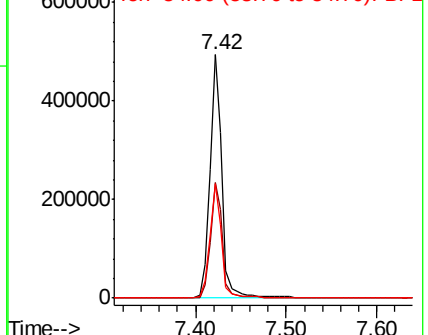
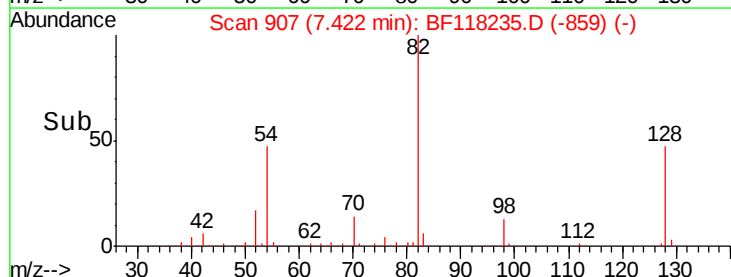
54 47.0 38.2 57.2

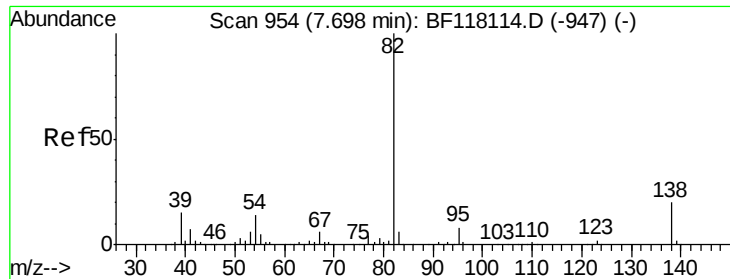


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 38.198 ng

RT: 7.42 min Scan# 907

Delta R.T. -0.28 min

Lab File: BF118235.D

Acq: 17 Dec 2019 19:23

Instrument :

BNA\_F

ClientSampleId :

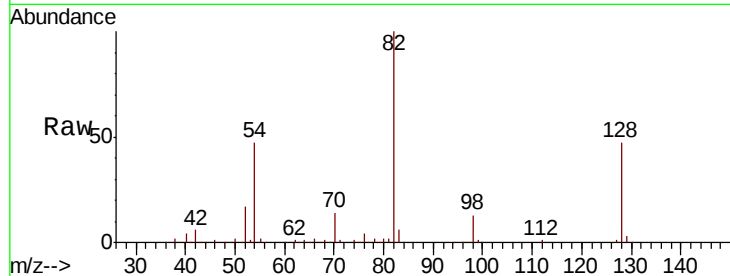
Tot Ion: 82 Resp: 463148

Ion Ratio Lower Upper

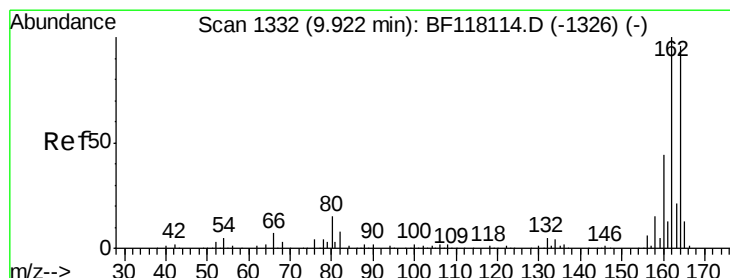
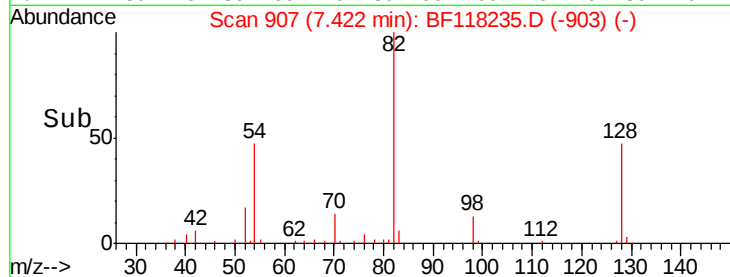
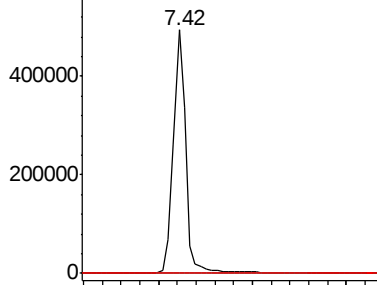
82 100

95 0.0 6.3 9.5#

138 0.0 16.3 24.5#



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: 9.91 min Scan# 1330

Delta R.T. -0.01 min

Lab File: BF118235.D

Acq: 17 Dec 2019 19:23

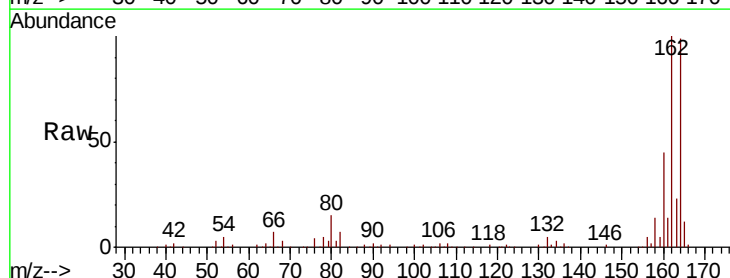
Tgt Ion: 164 Resp: 192472

Ion Ratio Lower Upper

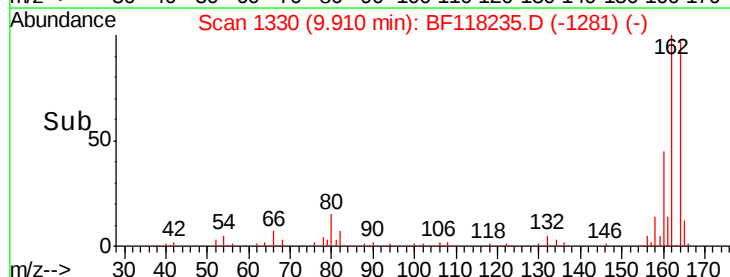
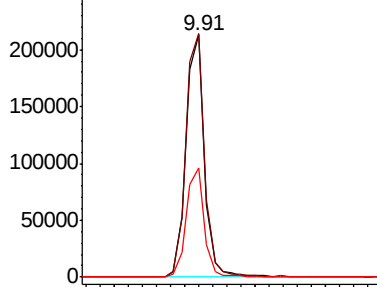
164 100

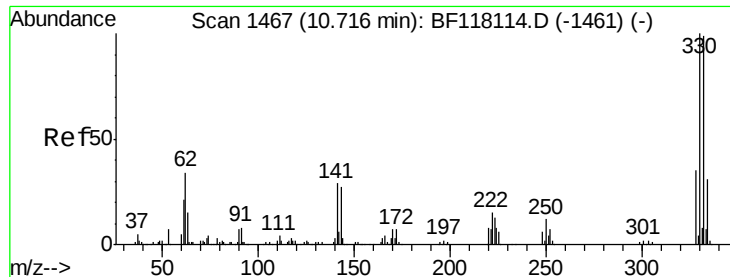
162 100.5 83.4 125.0

160 44.9 36.6 54.8



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

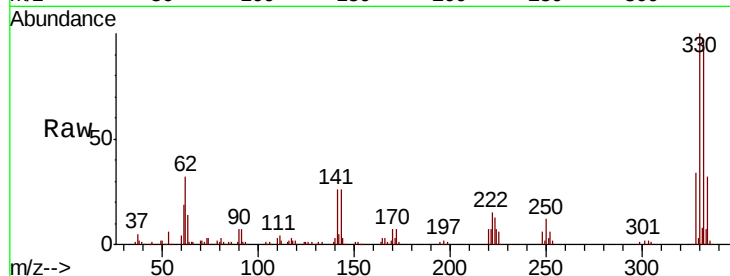




#42  
 2,4,6-Tribromophenol  
 Concen: 84.757 ng  
 RT: 10.70 min Scan# 1465  
 Delta R.T. -0.01 min  
 Lab File: BF118235.D  
 Acq: 17 Dec 2019 19:23

Instrument :  
 BNA\_F  
 ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 97.4  | 78.1  | 117.1 |
| 141     | 32.9  | 26.9  | 40.3  |

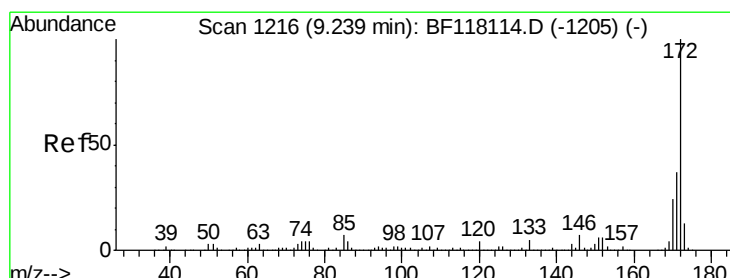
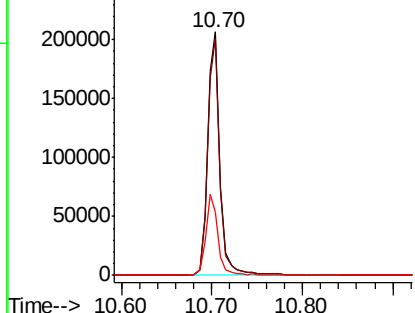
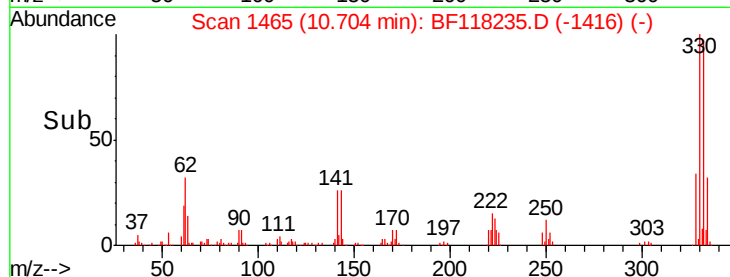


Abundance

Ion 329.80 (329.50 to 330.50): E

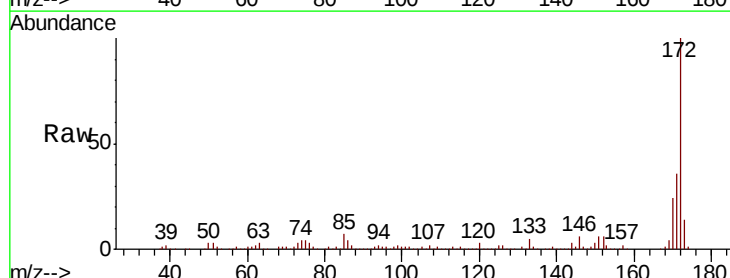
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45  
 2-Fluorobiphenyl  
 Concen: 69.431 ng  
 RT: 9.22 min Scan# 1213  
 Delta R.T. -0.02 min  
 Lab File: BF118235.D  
 Acq: 17 Dec 2019 19:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.8  | 29.2  | 43.8  |
| 170     | 23.7  | 19.4  | 29.2  |

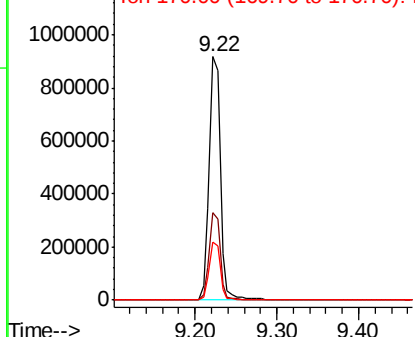
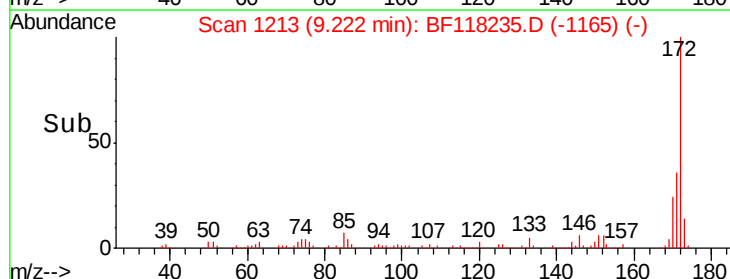


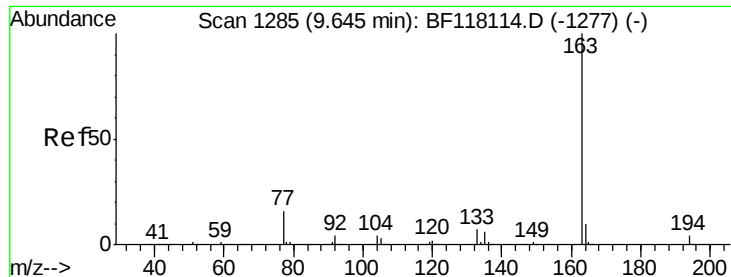
Abundance

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: 3.360 ng

RT: 9.62 min Scan# 1281

Delta R.T. -0.02 min

Lab File: BF118235.D

Acq: 17 Dec 2019 19:23

Instrument :

BNA\_F

ClientSampleId :

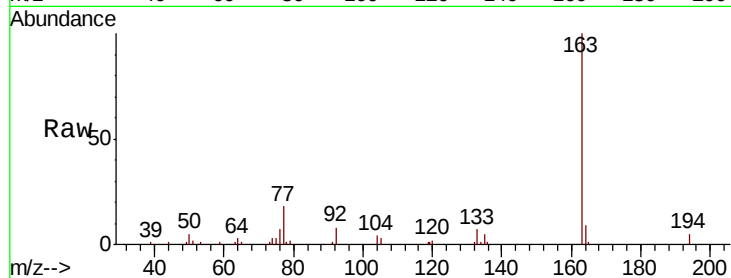
Tot Ion:163 Resp: 47762

Ion Ratio Lower Upper

163 100

194 4.5 3.1 4.7

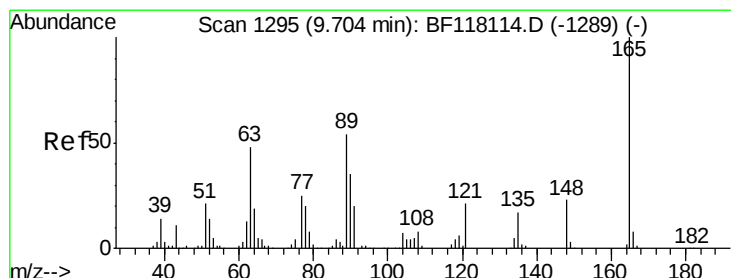
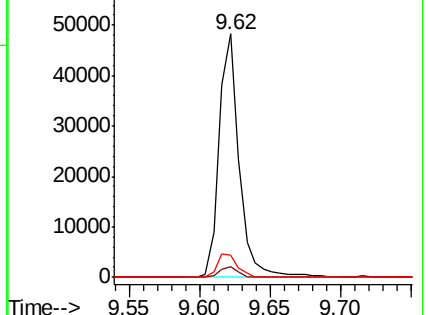
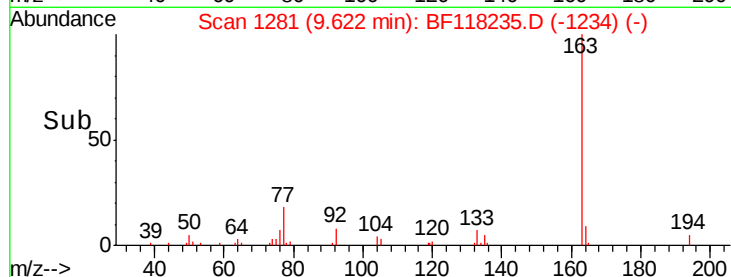
164 9.4 7.7 11.5



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: 7.886 ng

RT: 9.91 min Scan# 1330

Delta R.T. 0.21 min

Lab File: BF118235.D

Acq: 17 Dec 2019 19:23

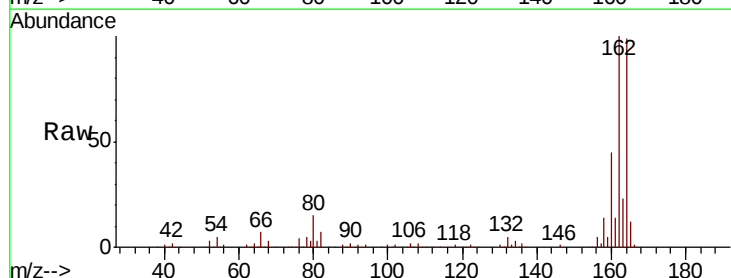
Tgt Ion:165 Resp: 24379

Ion Ratio Lower Upper

165 100

63 2.0 41.4 62.0#

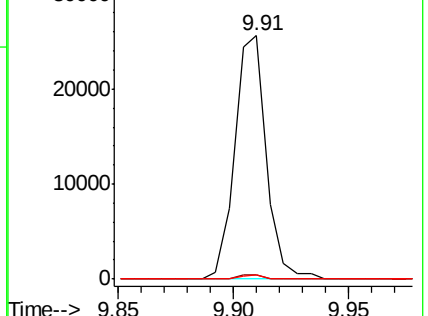
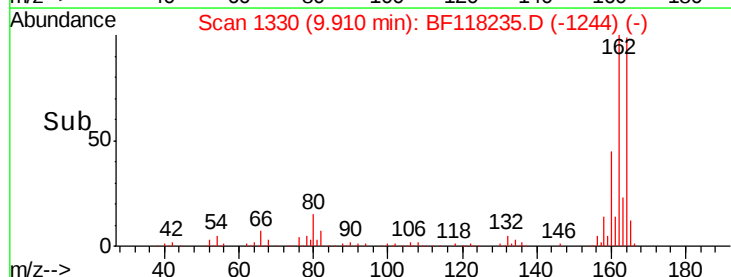
89 1.8 42.9 64.3#

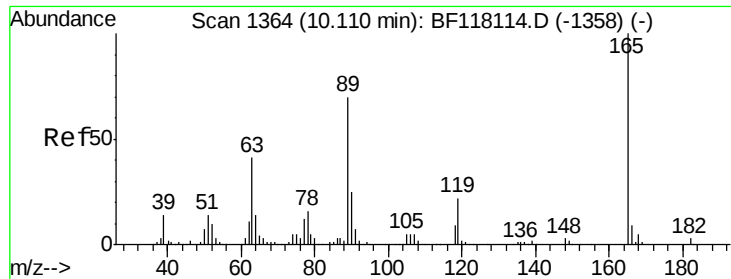


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

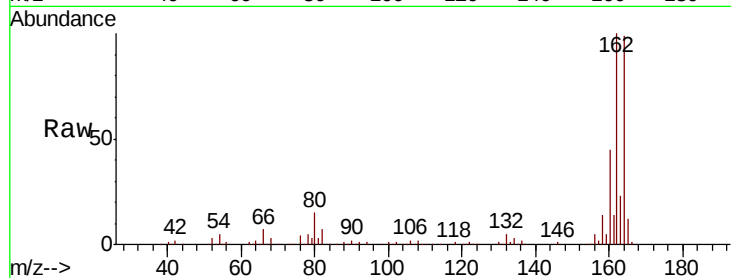




#57  
 2,4-Dinitrotoluene  
 Concen: 5.908 ng  
 RT: 9.91 min Scan# 1330  
 Delta R.T. -0.20 min  
 Lab File: BF118235.D  
 Acq: 17 Dec 2019 19:23

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 2.0   | 32.6  | 49.0# |
| 89      | 1.8   | 56.1  | 84.1# |
| 182     | 0.0   | 2.1   | 3.1#  |



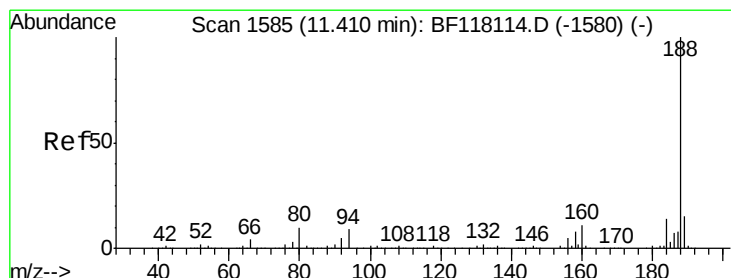
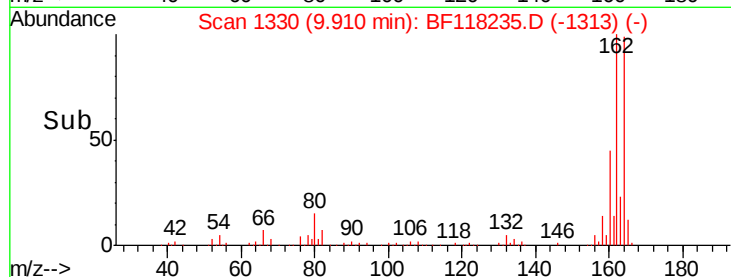
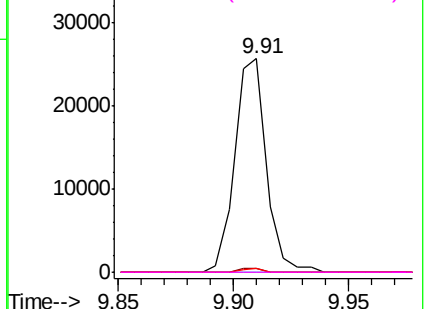
Abundance

Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

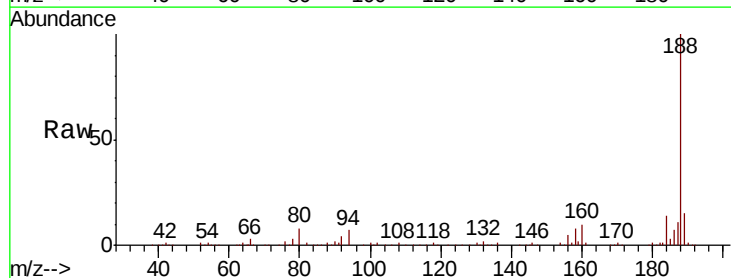
Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E



#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.40 min Scan# 1584  
 Delta R.T. -0.01 min  
 Lab File: BF118235.D  
 Acq: 17 Dec 2019 19:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 7.3   | 7.1   | 10.7  |
| 80      | 7.8   | 7.9   | 11.9# |

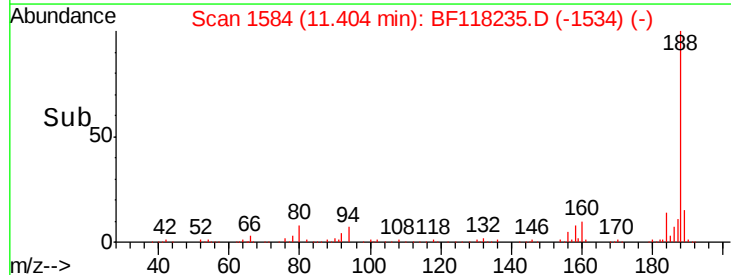
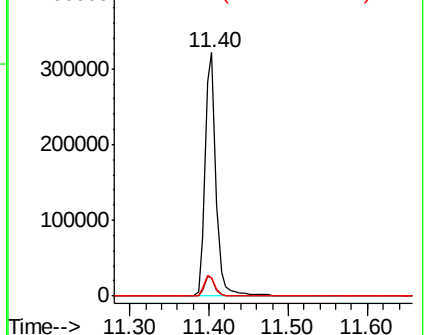


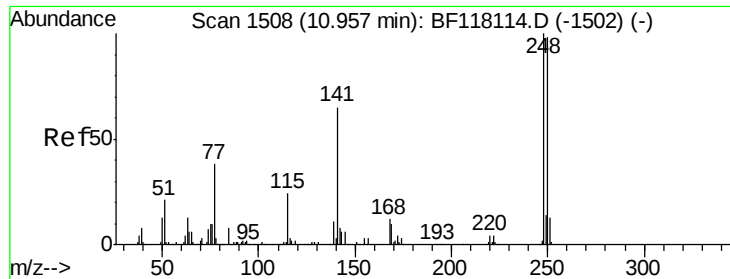
Abundance

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

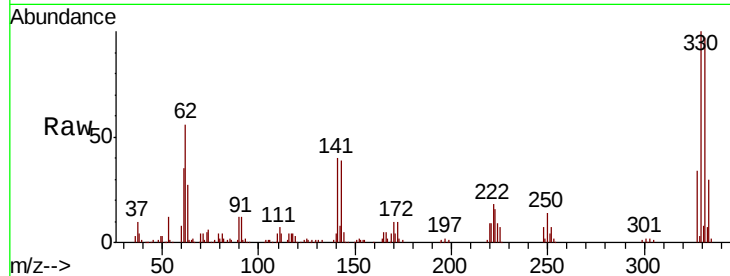




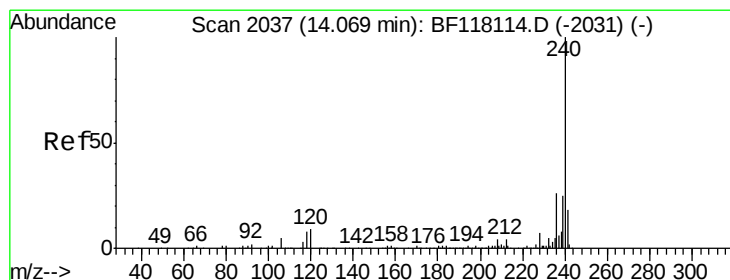
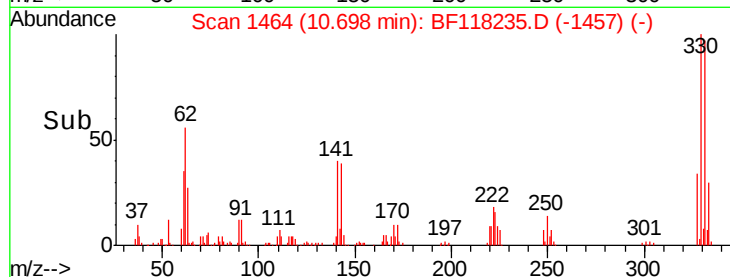
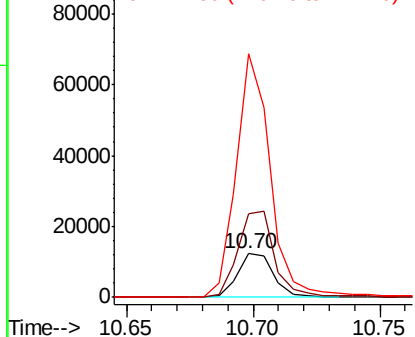
#67  
4-Bromophenyl-phenylether  
Concen: 3.359 ng  
RT: 10.70 min Scan# 1464  
Delta R.T. -0.26 min  
Lab File: BF118235.D  
Acq: 17 Dec 2019 19:23

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion:248 Resp: 12037  
Ion Ratio Lower Upper  
248 100  
250 193.1 78.3 117.5#  
141 561.3 52.2 78.4#

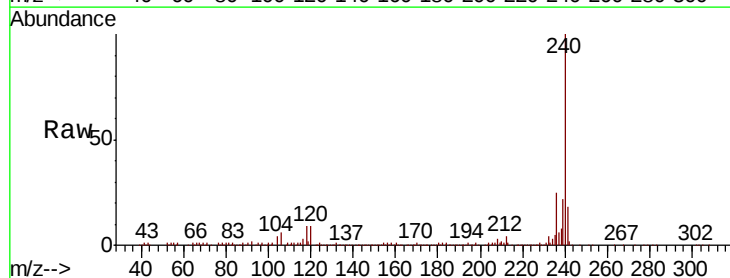


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

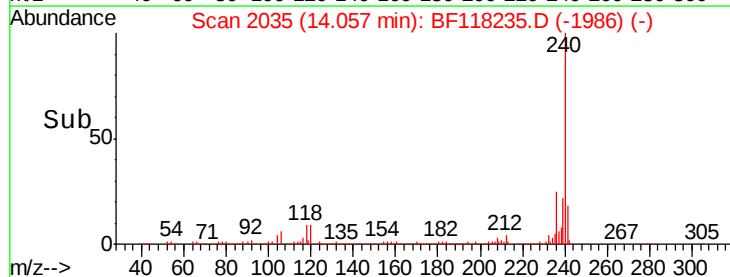
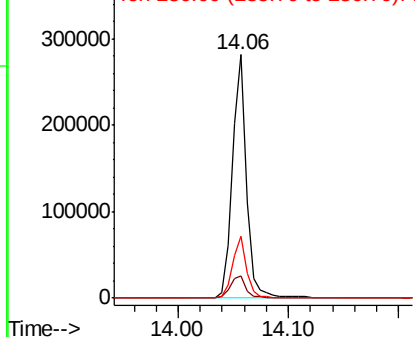


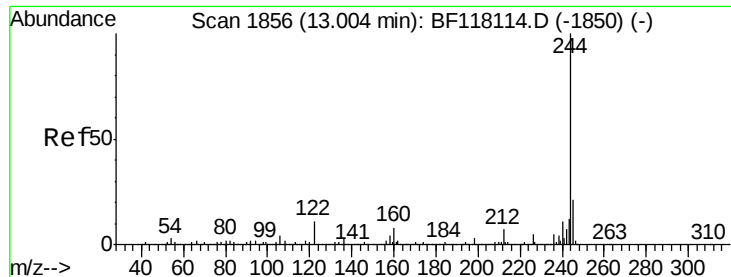
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.06 min Scan# 2035  
Delta R.T. -0.01 min  
Lab File: BF118235.D  
Acq: 17 Dec 2019 19:23

Tgt Ion:240 Resp: 252636  
Ion Ratio Lower Upper  
240 100  
120 9.2 7.1 10.7  
236 25.3 21.0 31.6



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





#79

Terphenyl-d14

Concen: 56.987 ng

RT: 12.99 min Scan# 1854

Delta R.T. -0.01 min

Lab File: BF118235.D

Acq: 17 Dec 2019 19:23

Instrument :

BNA\_F

ClientSampleId :

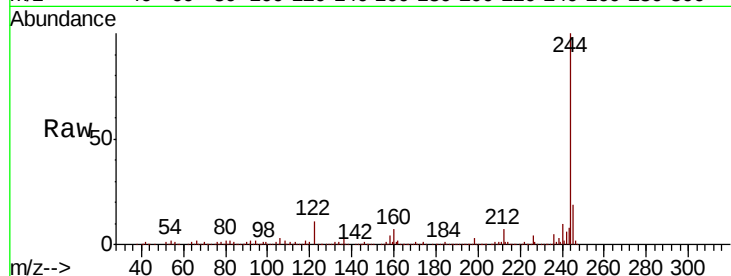
Tot Ion:244 Resp: 837220

Ion Ratio Lower Upper

244 100

212 6.6 5.9 8.9

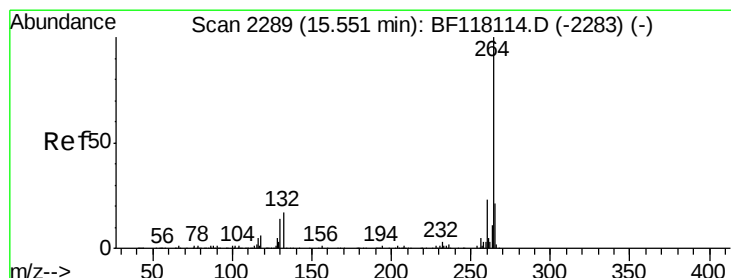
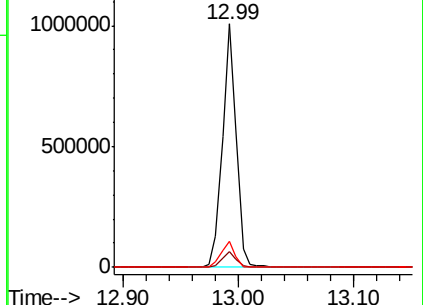
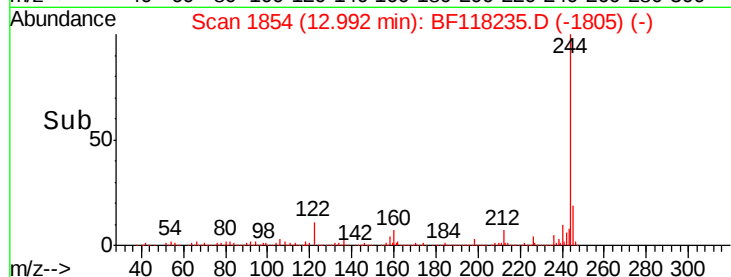
122 10.6 9.0 13.6



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: 15.54 min Scan# 2288

Delta R.T. -0.01 min

Lab File: BF118235.D

Acq: 17 Dec 2019 19:23

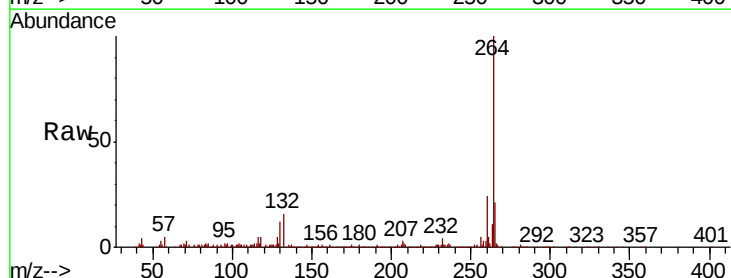
Tgt Ion:264 Resp: 240374

Ion Ratio Lower Upper

264 100

260 23.7 18.6 28.0

265 20.9 16.8 25.2



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

