

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF120419\  
 Data File : BF118088.D  
 Acq On : 4 Dec 2019 16:08  
 Operator : JU  
 Sample : K6119-06  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Dec 05 00:38:55 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF111319.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Dec 03 15:16:53 2019  
 Response via : Initial Calibration

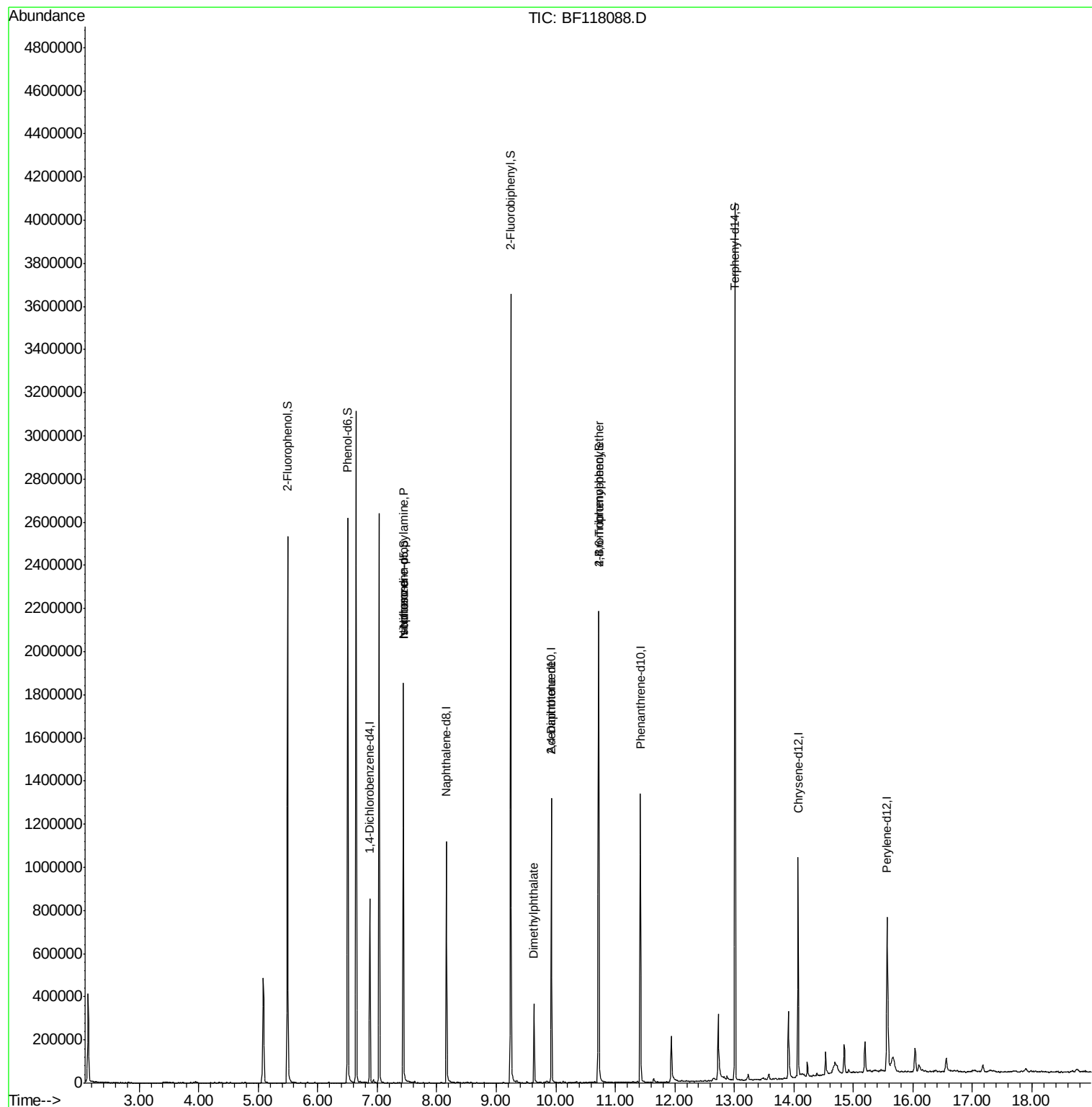
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min)   |
|--------------------------------|-------|------|----------|-----------|-------|------------|
| 1) 1,4-Dichlorobenzene-d4      | 6.87  | 152  | 130435   | 20.00     | ng    | 0.00       |
| 21) Naphthalene-d8             | 8.16  | 136  | 503109   | 20.00     | ng    | 0.00       |
| 39) Acenaphthene-d10           | 9.93  | 164  | 261455   | 20.00     | ng    | 0.00       |
| 64) Phenanthrene-d10           | 11.42 | 188  | 494788   | 20.00     | ng    | 0.00       |
| 76) Chrysene-d12               | 14.07 | 240  | 355015   | 20.00     | ng    | 0.00       |
| 87) Perylene-d12               | 15.57 | 264  | 326887   | 20.00     | ng    | 0.00       |
| System Monitoring Compounds    |       |      |          |           |       |            |
| 5) 2-Fluorophenol              | 5.49  | 112  | 757411   | 102.79    | ng    | 0.00       |
| 7) Phenol-d6                   | 6.50  | 99   | 949933   | 106.88    | ng    | 0.00       |
| 23) Nitrobenzene-d5            | 7.44  | 82   | 580347   | 68.57     | ng    | 0.00       |
| 42) 2,4,6-Tribromophenol       | 10.72 | 330  | 307659   | 111.15    | ng    | 0.00       |
| 45) 2-Fluorobiphenyl           | 9.25  | 172  | 1167793  | 80.13     | ng    | 0.00       |
| 79) Terphenyl-d14              | 13.01 | 244  | 1419773  | 73.09     | ng    | 0.00       |
| Target Compounds               |       |      |          |           |       |            |
| 9) Benzaldehyde                | 6.50  | 77   | 1667     | Below Cal |       | Qvalue # 1 |
| 19) n-Nitroso-di-n-propylamine | 7.44  | 70   | 79378    | 14.477    | ng    | # 73       |
| 25) Isophorone                 | 7.44  | 82   | 580344   | 37.413    | ng    | # 63       |
| 50) Dimethylphthalate          | 9.63  | 163  | 159425   | 8.695     | ng    | 99         |
| 57) 2,4-Dinitrotoluene         | 9.93  | 165  | 33375    | 6.548     | ng    | # 33       |
| 67) 4-Bromophenyl-phenylether  | 10.72 | 248  | 18636    | 3.491     | ng    | # 1        |
| 75) Fluoranthene               | 12.64 | 202  | 233      | Below Cal |       | 64         |

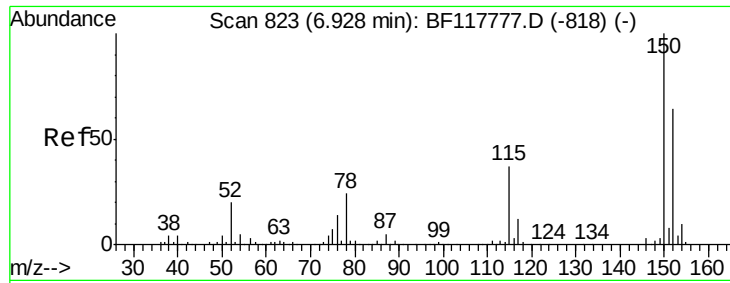
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Misc :  
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Instrument :  
BNA\_F  
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Quant Time: Dec 05 00:38:55 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF111319.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
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Response via : Initial Calibration

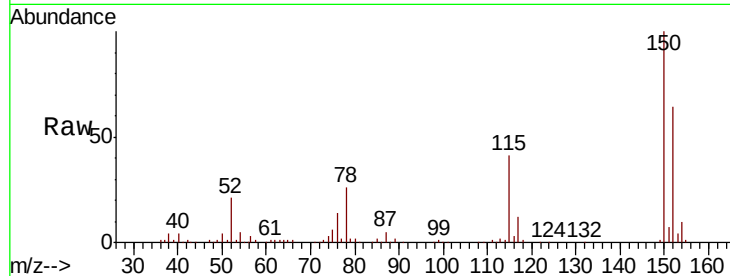




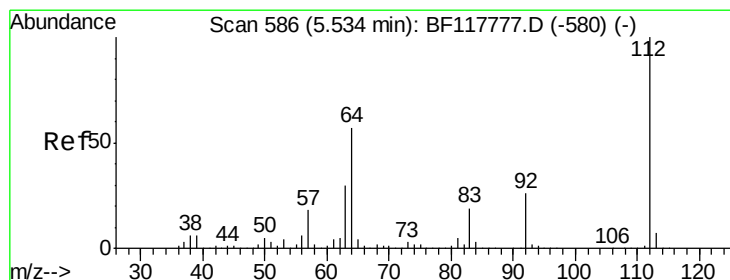
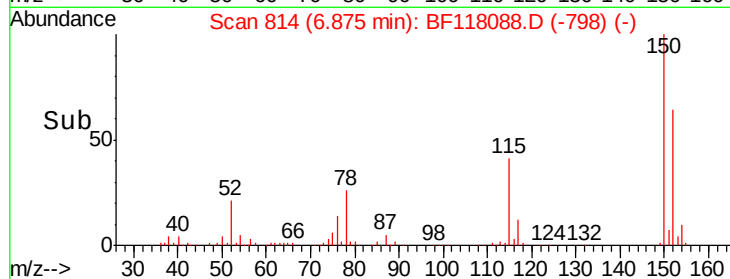
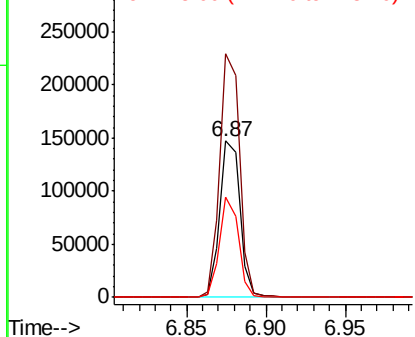
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.87 min Scan# 814  
 Delta R.T. -0.01 min  
 Lab File: BF118088.D  
 Acq: 4 Dec 2019 16:08

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:152 Resp: 130435  
 Ion Ratio Lower Upper  
 152 100  
 150 155.9 121.4 182.2  
 115 64.0 48.8 73.2

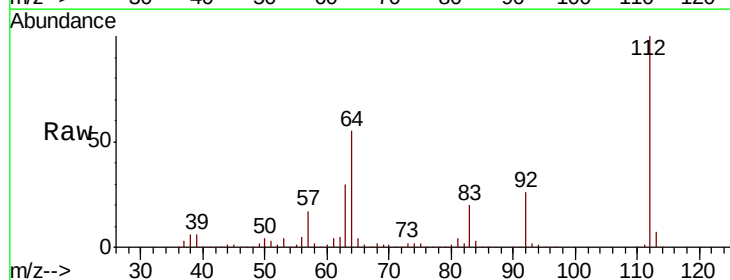


Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E

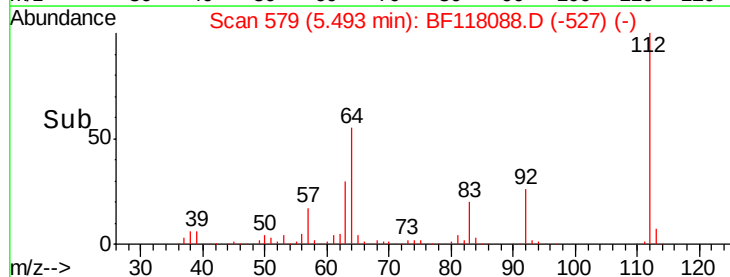
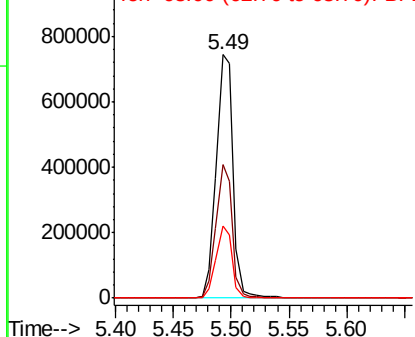


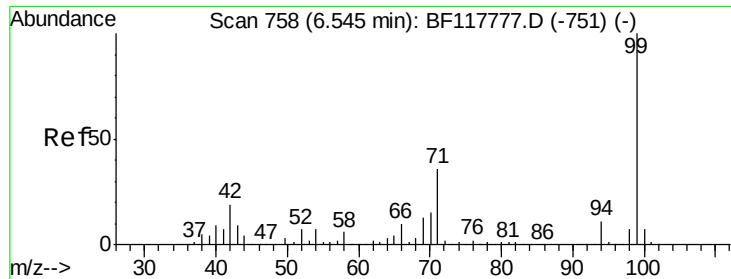
#5  
 2-Fluorophenol  
 Concen: 102.787 ng  
 RT: 5.49 min Scan# 579  
 Delta R.T. 0.01 min  
 Lab File: BF118088.D  
 Acq: 4 Dec 2019 16:08

Tgt Ion:112 Resp: 757411  
 Ion Ratio Lower Upper  
 112 100  
 64 54.8 45.1 67.7  
 63 29.6 24.6 37.0



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: 106.879 ng

RT: 6.50 min Scan# 751

Delta R.T. -0.01 min

Lab File: BF118088.D

Acq: 4 Dec 2019 16:08

Instrument :

BNA\_F

ClientSampleId :

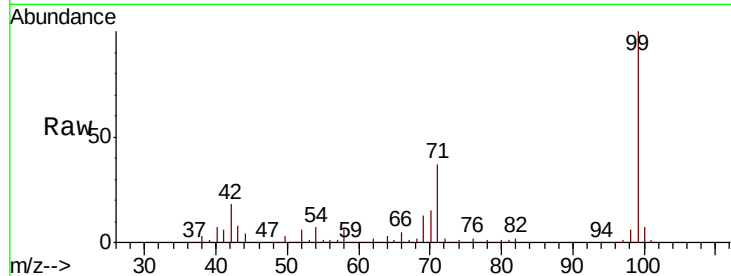
Tot Ion: 99 Resp: 949933

Ion Ratio Lower Upper

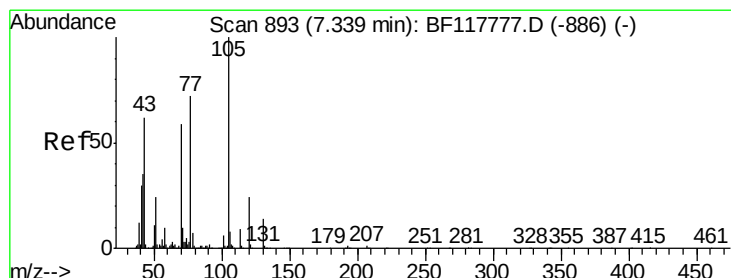
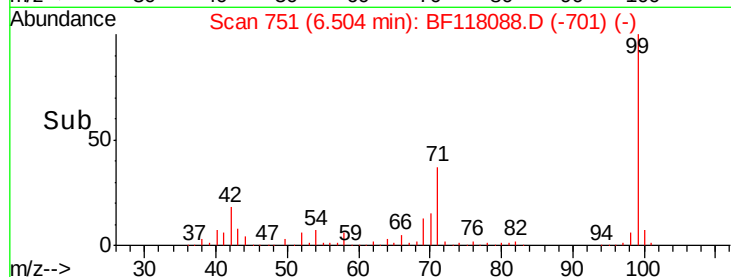
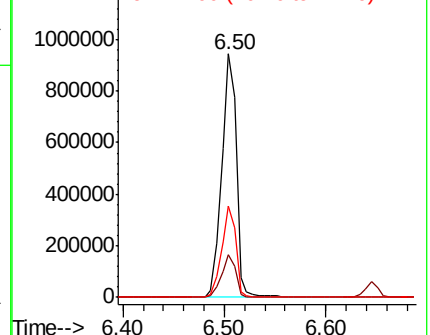
99 100

42 17.7 14.0 21.0

71 37.3 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: 14.477 ng

RT: 7.44 min Scan# 910

Delta R.T. 0.15 min

Lab File: BF118088.D

Acq: 4 Dec 2019 16:08

Tgt Ion: 70 Resp: 79378

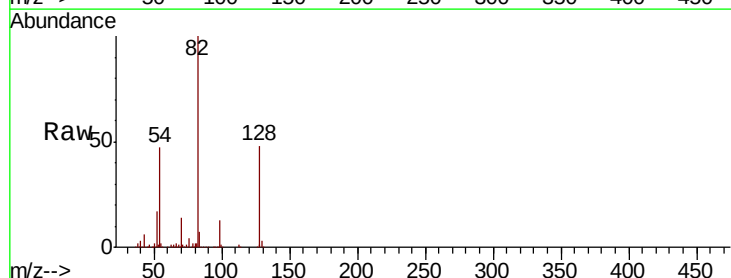
Ion Ratio Lower Upper

70 100

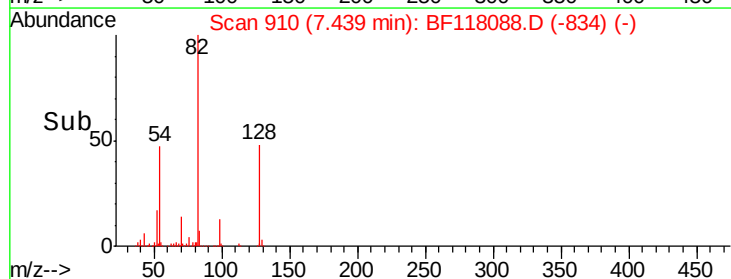
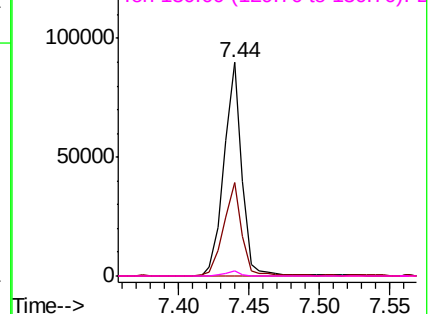
42 43.6 46.0 69.0#

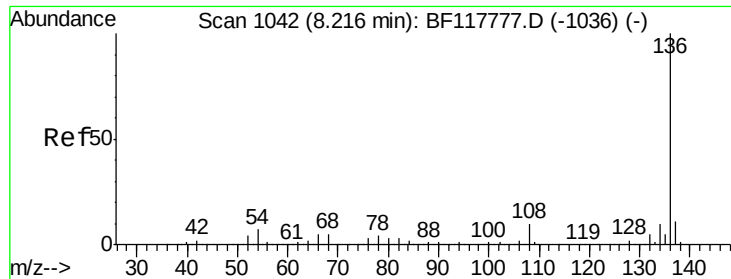
101 0.0 8.8 13.2#

130 2.4 19.8 29.6#



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

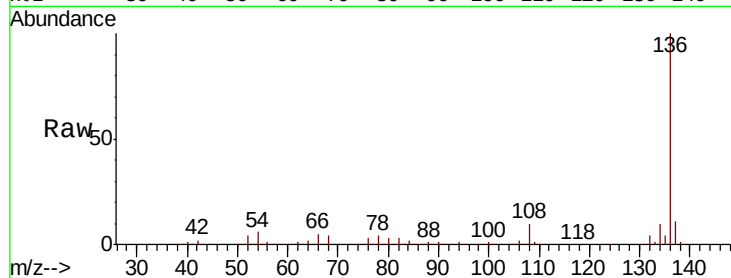




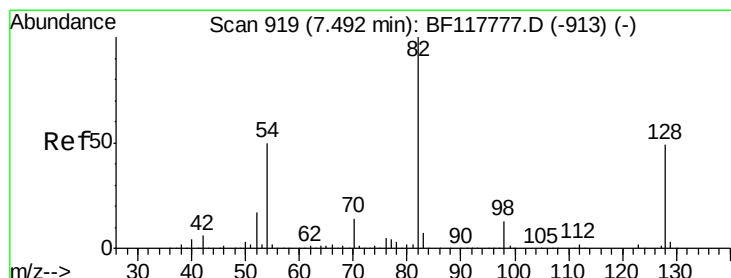
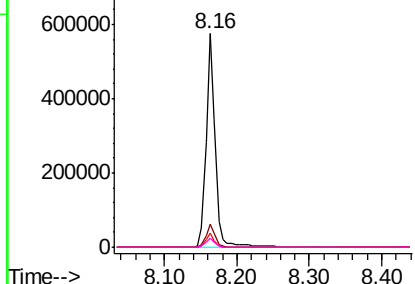
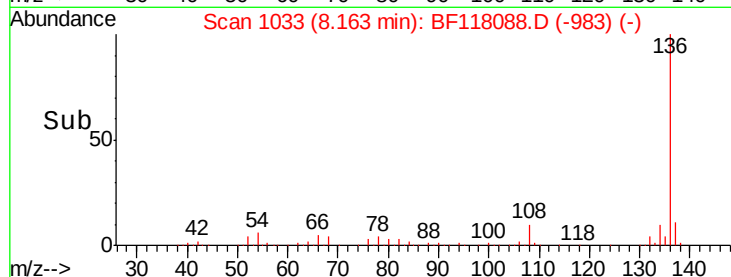
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.16 min Scan# 1033  
Delta R.T. -0.01 min  
Lab File: BF118088.D  
Acq: 4 Dec 2019 16:08

Instrument :  
BNA\_F  
ClientSampleId :

|             |       |             |
|-------------|-------|-------------|
| Tot Ion:136 | Resp: | 503109      |
| Ion         | Ratio | Lower Upper |
| 136         | 100   |             |
| 137         | 11.0  | 9.1 13.7    |
| 54          | 6.5   | 4.9 7.3     |
| 68          | 4.5   | 3.6 5.4     |

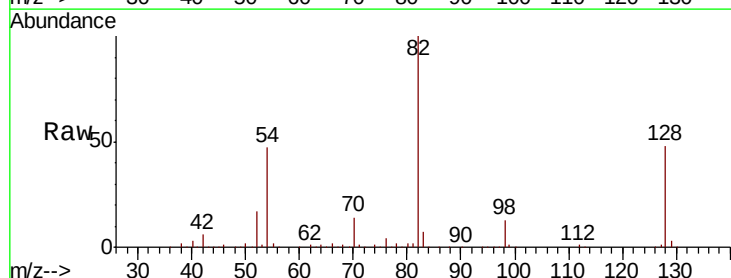


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1

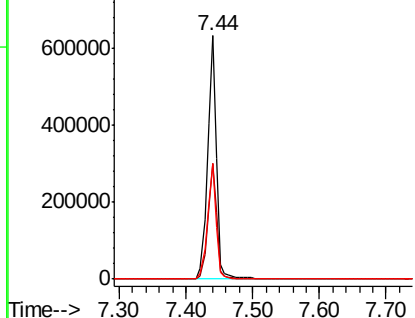
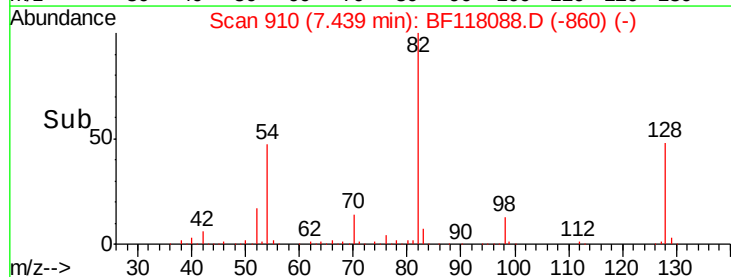


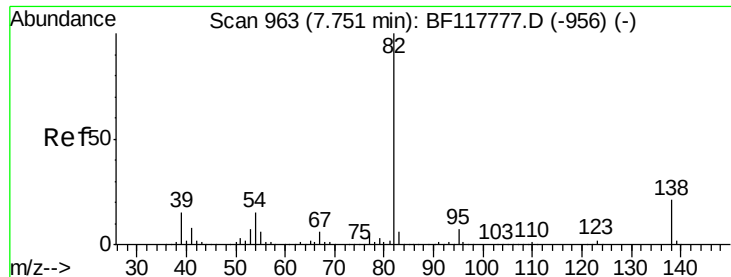
#23  
Nitrobenzene-d5  
Concen: 68.572 ng  
RT: 7.44 min Scan# 910  
Delta R.T. -0.01 min  
Lab File: BF118088.D  
Acq: 4 Dec 2019 16:08

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 82 | Resp: | 580347      |
| Ion         | Ratio | Lower Upper |
| 82          | 100   |             |
| 128         | 47.6  | 38.2 57.4   |
| 54          | 47.5  | 39.0 58.4   |



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: 37.413 ng

RT: 7.44 min Scan# 910

Delta R.T. -0.26 min

Lab File: BF118088.D

Acq: 4 Dec 2019 16:08

Instrument :

BNA\_F

ClientSampleId :

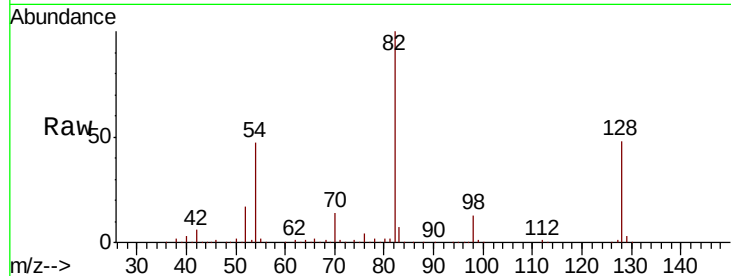
Tot Ion: 82 Resp: 580344

Ion Ratio Lower Upper

82 100

95 0.0 6.2 9.2#

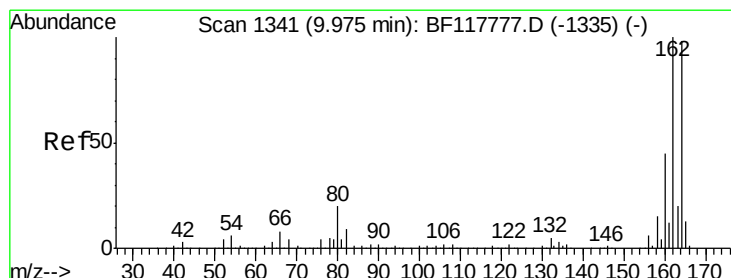
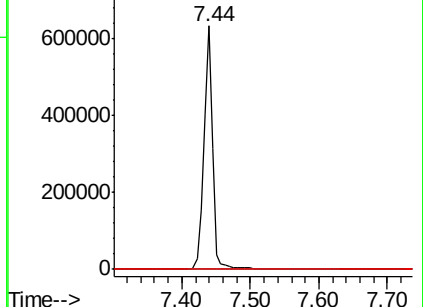
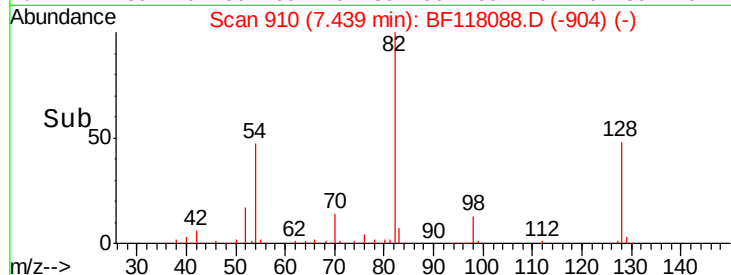
138 0.0 15.9 23.9#



Abundance Ion 82.00 (81.70 to 82.70): BF117777.D (-956) (-)

Ion 95.00 (94.70 to 95.70): BF117777.D (-956) (-)

Ion 138.00 (137.70 to 138.70): BF117777.D (-956) (-)



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.93 min Scan# 1333

Delta R.T. -0.01 min

Lab File: BF118088.D

Acq: 4 Dec 2019 16:08

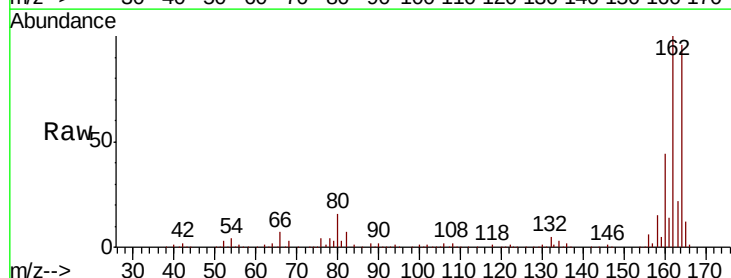
Tgt Ion: 164 Resp: 261455

Ion Ratio Lower Upper

164 100

162 104.4 81.8 122.8

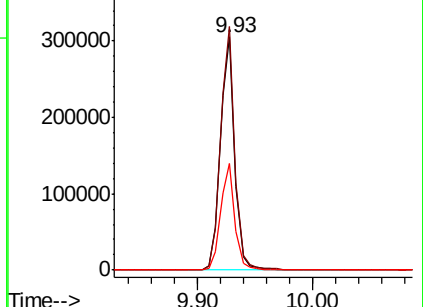
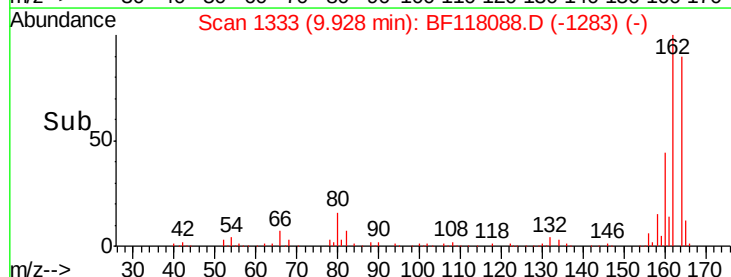
160 45.5 35.9 53.9

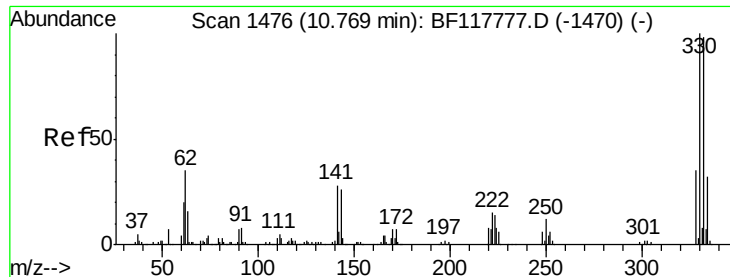


Abundance Ion 164.00 (163.70 to 164.70): BF117777.D (-1335) (-)

Ion 162.00 (161.70 to 162.70): BF117777.D (-1335) (-)

Ion 160.00 (159.70 to 160.70): BF117777.D (-1335) (-)





#42

2,4,6-Tribromophenol

Concen: 111.149 ng

RT: 10.72 min Scan# 1468

Delta R.T. 0.00 min

Lab File: BF118088.D

Acq: 4 Dec 2019 16:08

Instrument :

BNA\_F

ClientSampleId :

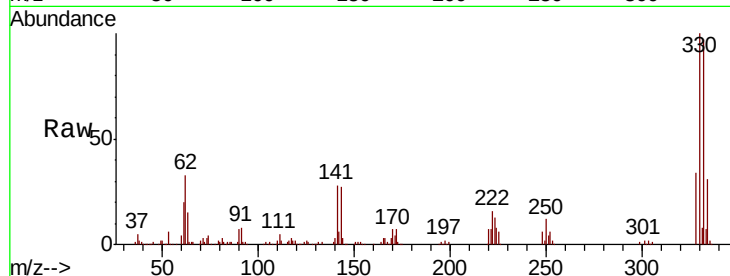
Tot Ion:330 Resp: 307659

Ion Ratio Lower Upper

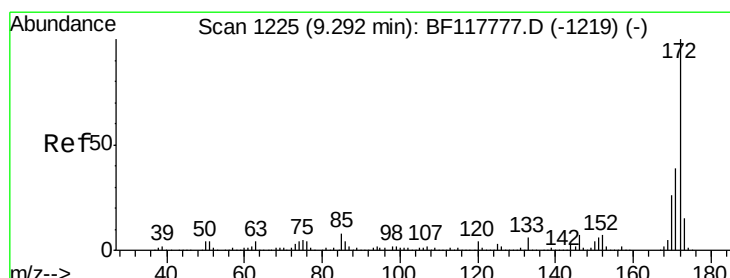
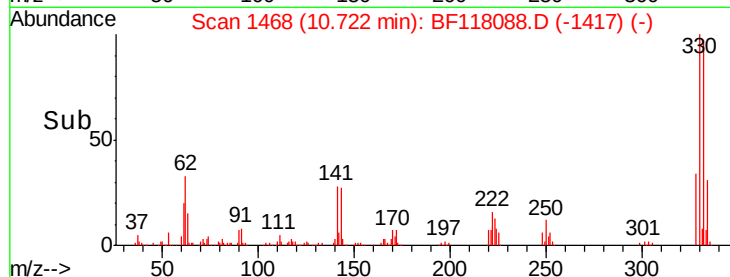
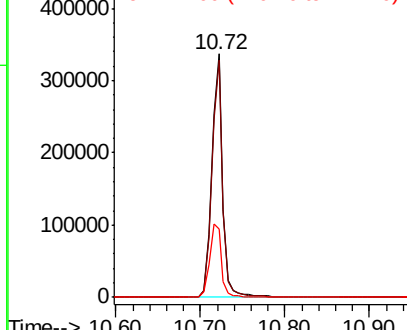
330 100

332 97.0 78.3 117.5

141 32.6 26.4 39.6



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: 80.131 ng

RT: 9.25 min Scan# 1217

Delta R.T. 0.00 min

Lab File: BF118088.D

Acq: 4 Dec 2019 16:08

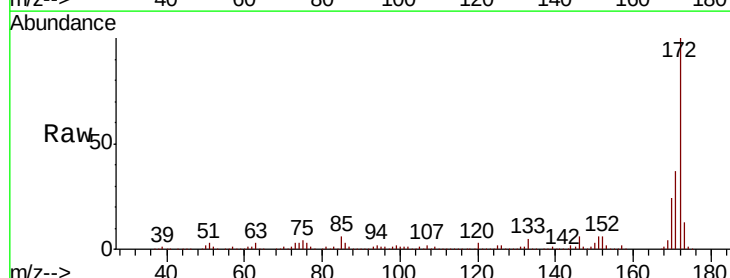
Tgt Ion:172 Resp: 1167793

Ion Ratio Lower Upper

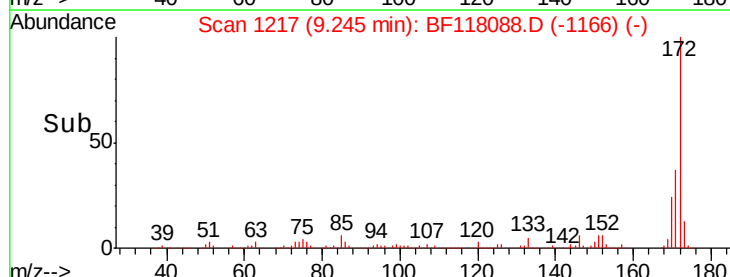
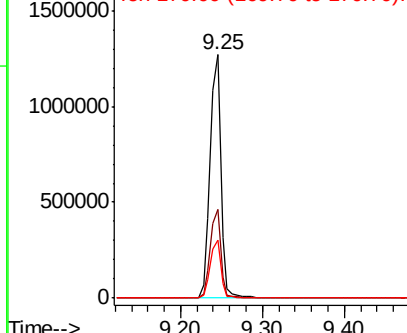
172 100

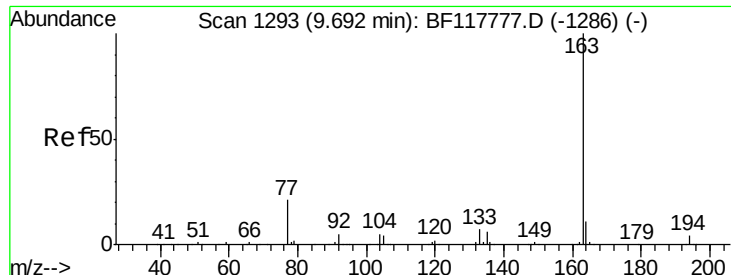
171 36.5 29.2 43.8

170 24.0 19.3 28.9



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

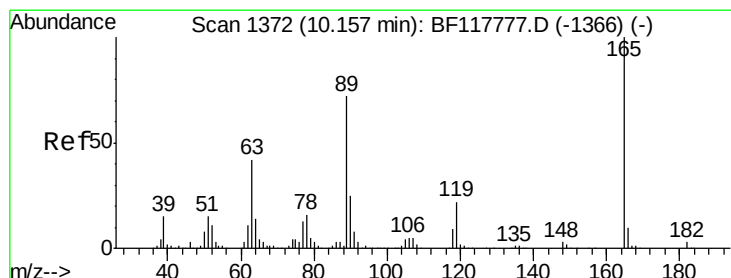
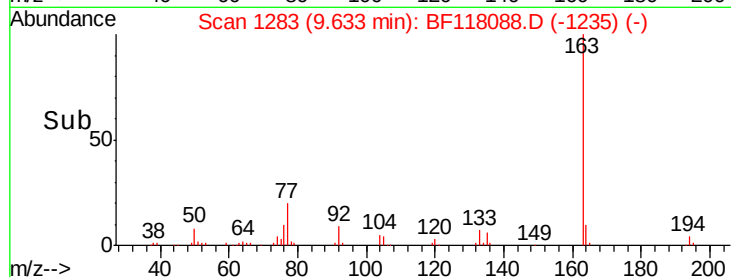
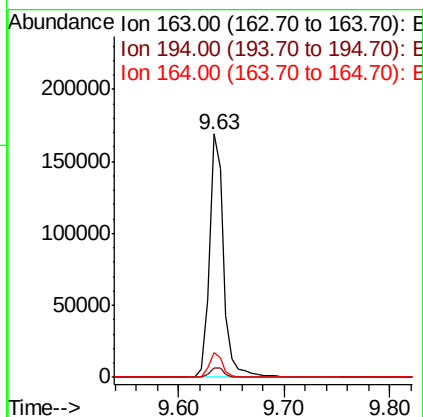
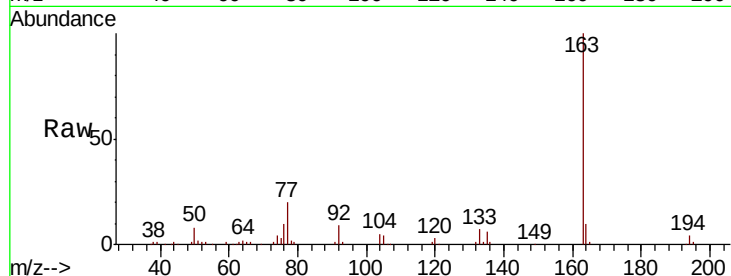




#50  
Dimethylphthalate  
Concen: 8.695 ng  
RT: 9.63 min Scan# 1283  
Delta R.T. -0.02 min  
Lab File: BF118088.D  
Acq: 4 Dec 2019 16:08

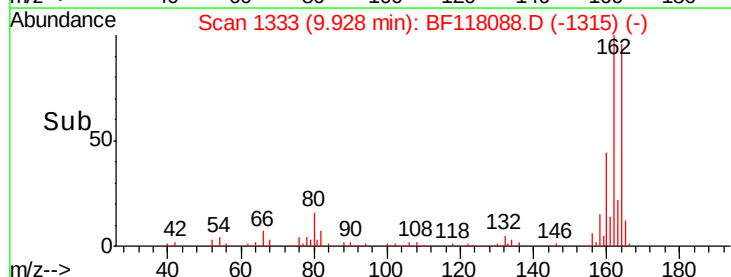
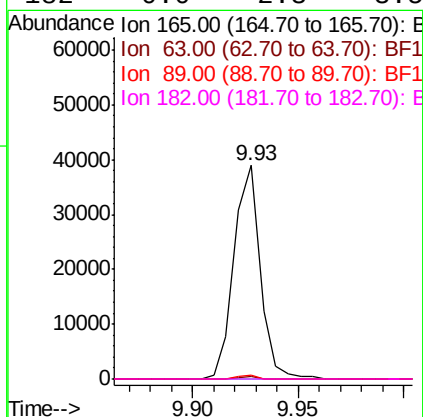
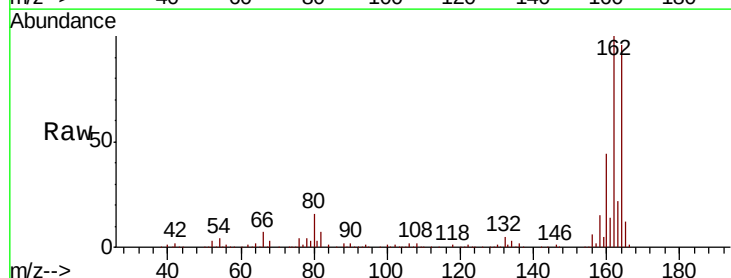
Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 3.7   | 3.1   | 4.7   |
| 164     | 10.2  | 7.9   | 11.9  |

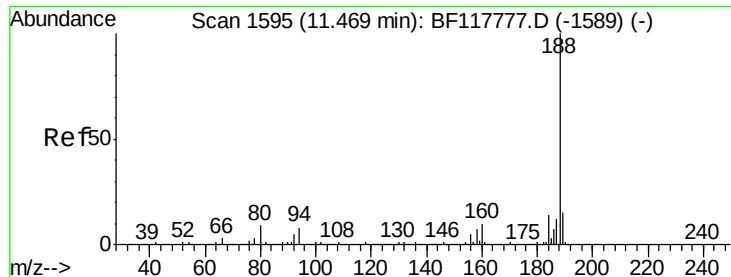


#57  
2,4-Dinitrotoluene  
Concen: 6.548 ng  
RT: 9.93 min Scan# 1333  
Delta R.T. -0.19 min  
Lab File: BF118088.D  
Acq: 4 Dec 2019 16:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.5   | 26.5  | 39.7# |
| 89      | 1.8   | 47.2  | 70.8# |
| 182     | 0.0   | 2.3   | 3.5#  |







#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.42 min Scan# 1587

Delta R.T. 0.00 min

Lab File: BF118088.D

Acq: 4 Dec 2019 16:08

Instrument :

BNA\_F

ClientSampleId :

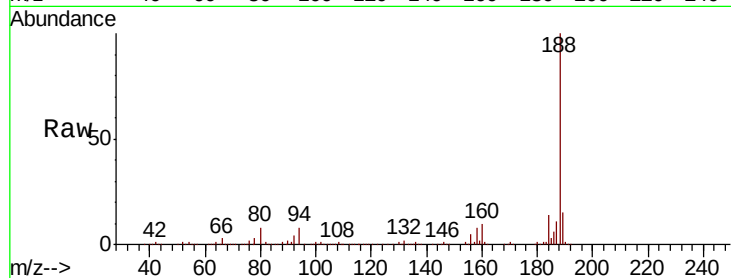
Tot Ion:188 Resp: 494788

Ion Ratio Lower Upper

188 100

94 8.3 7.0 10.6

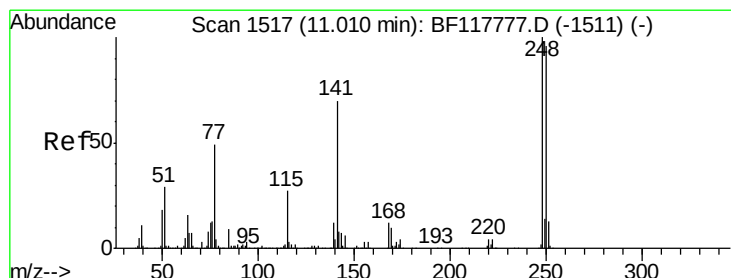
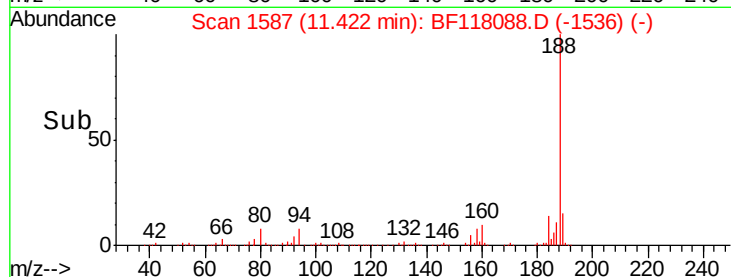
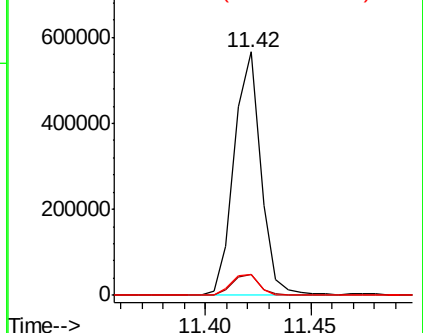
80 8.4 7.2 10.8



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: 3.491 ng

RT: 10.72 min Scan# 1468

Delta R.T. -0.24 min

Lab File: BF118088.D

Acq: 4 Dec 2019 16:08

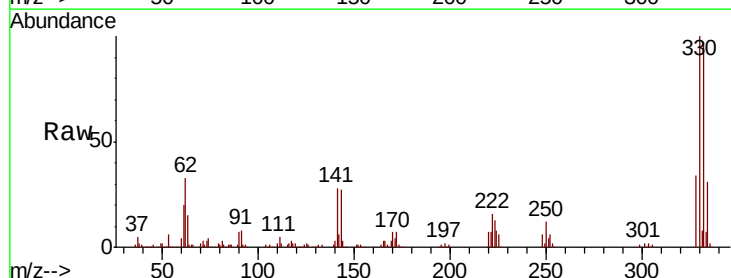
Tgt Ion:248 Resp: 18636

Ion Ratio Lower Upper

248 100

250 210.4 78.0 117.0#

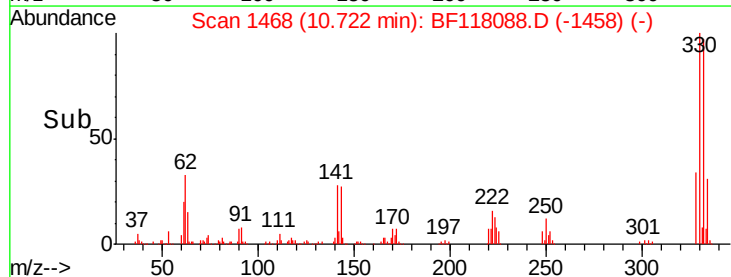
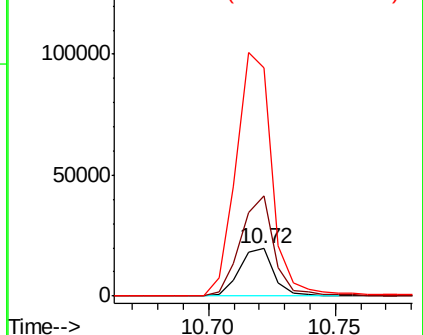
141 481.3 64.0 96.0#

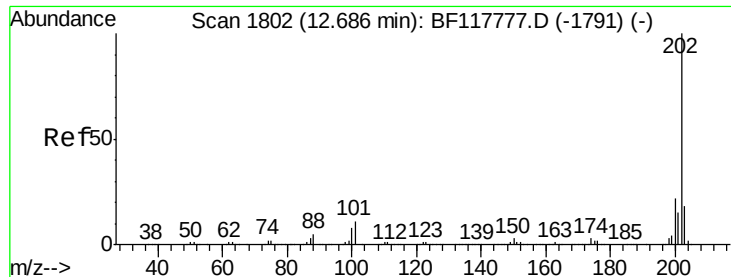


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E

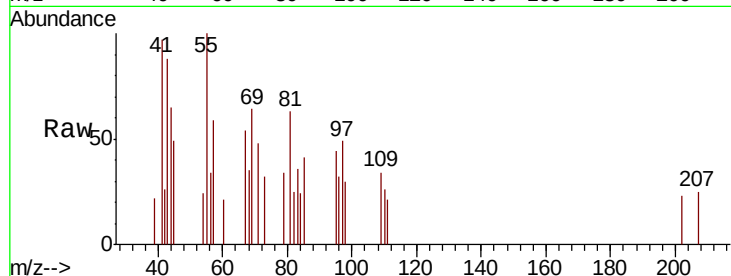




#75  
Fluoranthene  
Concen: Below Cal  
RT: 12.64 min Scan# 1794  
Delta R.T. 0.00 min  
Lab File: BF118088.D  
Acq: 4 Dec 2019 16:08

Instrument :  
BNA\_F  
ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 0.0   | 0.0   | 31.5  |
| 203     | 0.0   | 0.0   | 37.6  |

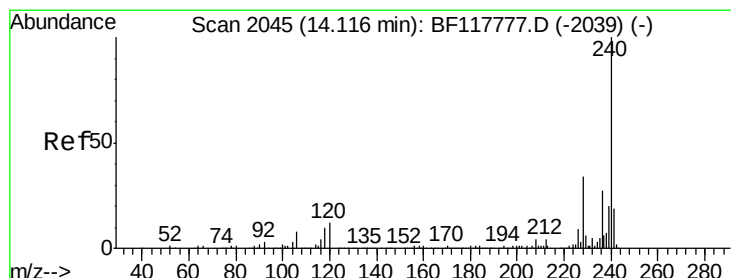
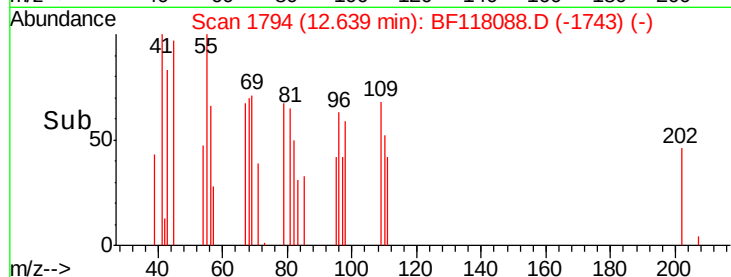
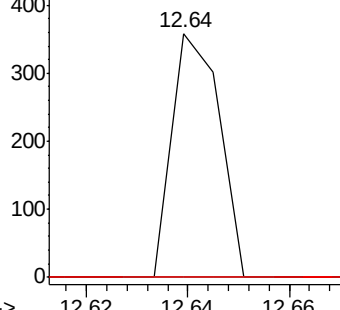


Abundance

Ion 202.00 (201.70 to 202.70): E

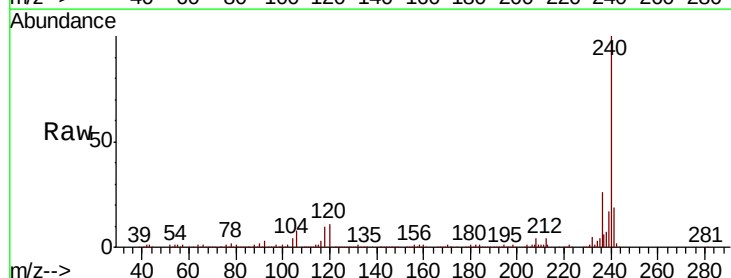
Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.07 min Scan# 2037  
Delta R.T. -0.01 min  
Lab File: BF118088.D  
Acq: 4 Dec 2019 16:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 11.4  | 8.4   | 12.6  |
| 236     | 26.2  | 20.6  | 31.0  |

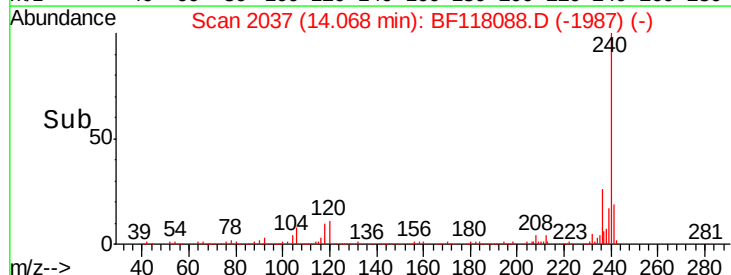
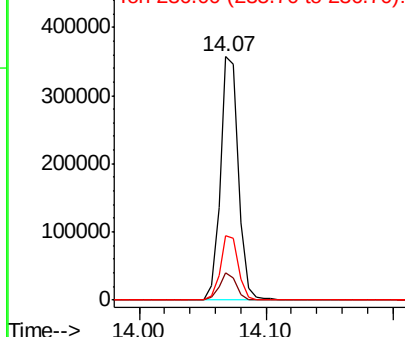


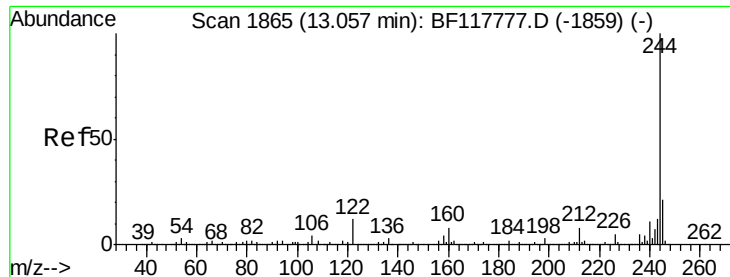
Abundance

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: 73.090 ng

RT: 13.01 min Scan# 1857

Delta R.T. -0.01 min

Lab File: BF118088.D

Acq: 4 Dec 2019 16:08

Instrument :

BNA\_F

ClientSampleId :

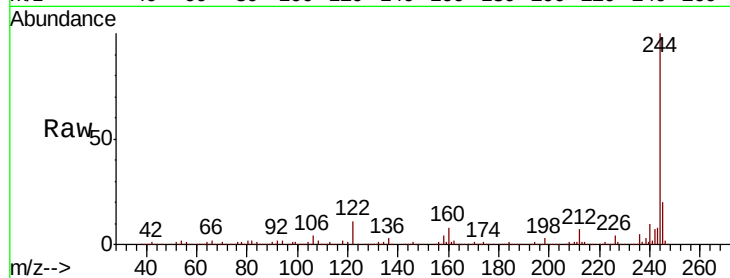
Tot Ion:244 Resp: 1419773

Ion Ratio Lower Upper

244 100

212 7.1 5.2 7.8

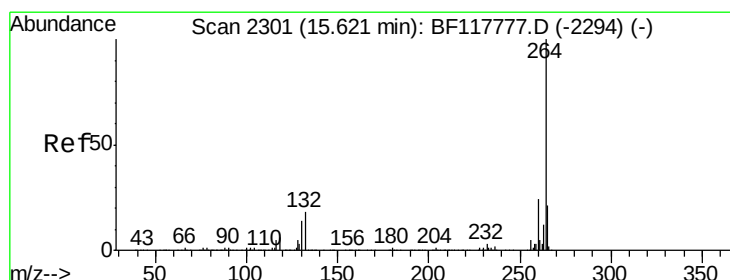
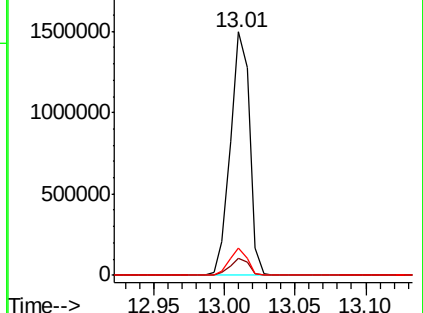
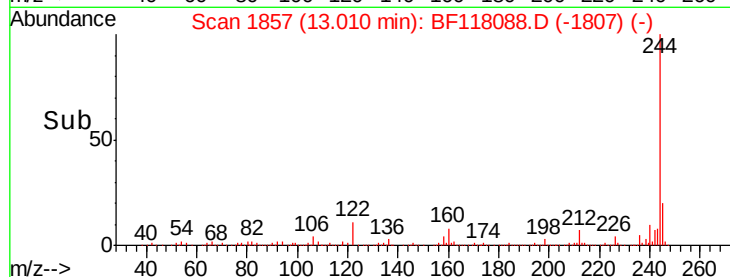
122 11.4 7.2 10.8#



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: 15.57 min Scan# 2292

Delta R.T. 0.00 min

Lab File: BF118088.D

Acq: 4 Dec 2019 16:08

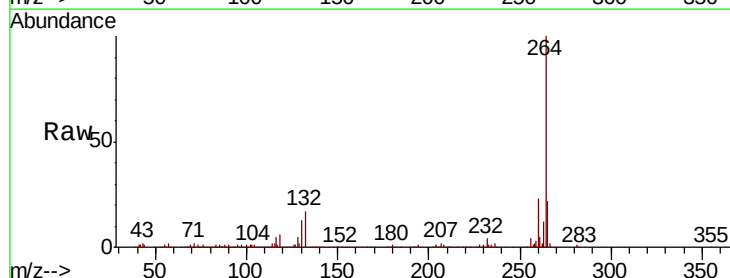
Tgt Ion:264 Resp: 326887

Ion Ratio Lower Upper

264 100

260 23.0 19.0 28.6

265 21.7 16.4 24.6



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

