

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF052519\  
 Data File : BF114627.D  
 Acq On : 26 May 2019 3:14  
 Operator : JU/SJ  
 Sample : PB1120038BL  
 Misc :  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: May 27 01:25:10 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051019.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri May 24 07:23:33 2019  
 Response via : Initial Calibration

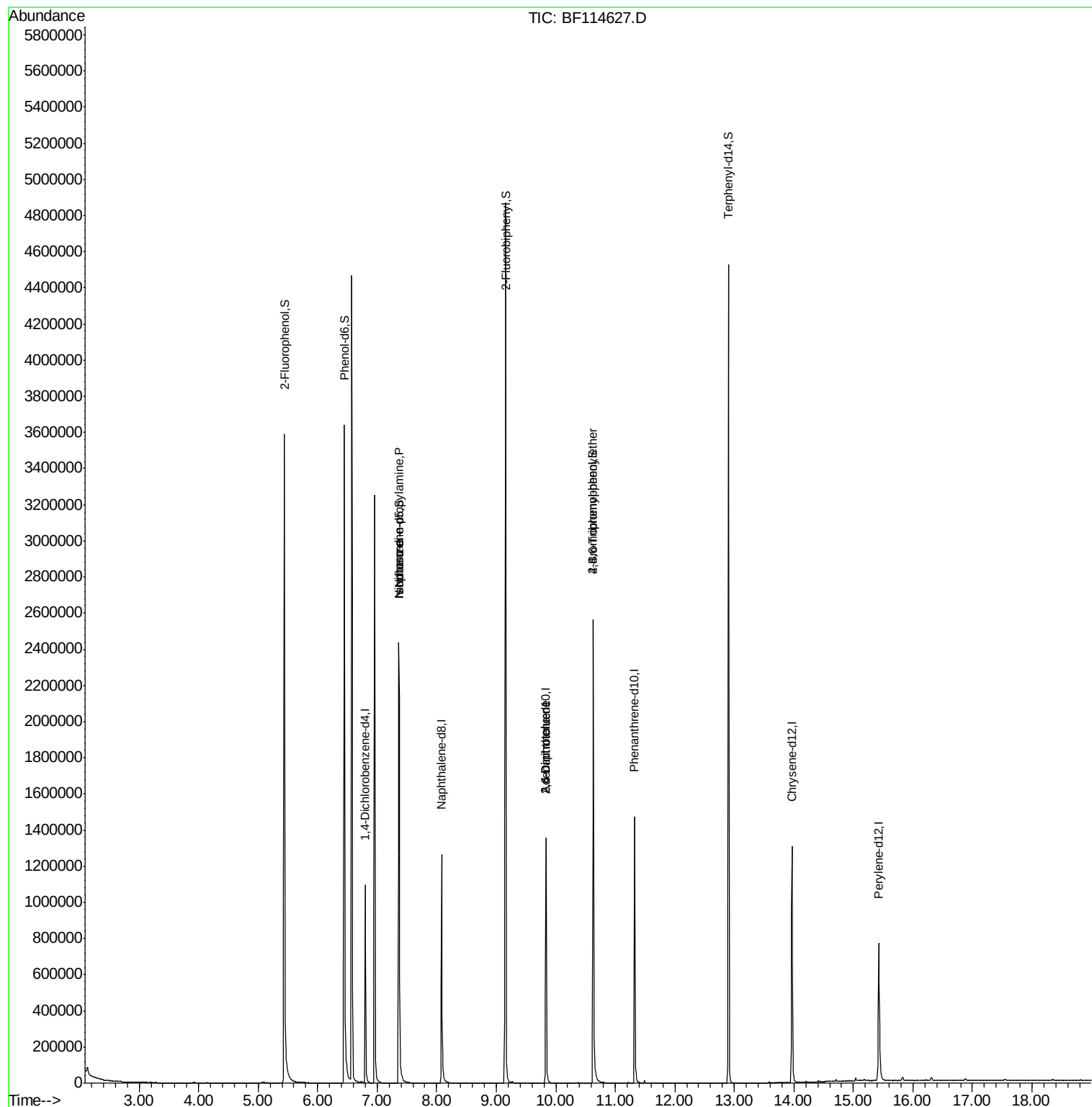
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.80  | 152  | 169725   | 20.00  | ng    | -0.02    |
| 21) Naphthalene-d8             | 8.08  | 136  | 648702   | 20.00  | ng    | -0.02    |
| 39) Acenaphthene-d10           | 9.83  | 164  | 307075   | 20.00  | ng    | -0.02    |
| 64) Phenanthrene-d10           | 11.32 | 188  | 625470   | 20.00  | ng    | -0.02    |
| 76) Chrysene-d12               | 13.97 | 240  | 460036   | 20.00  | ng    | -0.02    |
| 87) Perylene-d12               | 15.43 | 264  | 432325   | 20.00  | ng    | -0.02    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.44  | 112  | 1114430  | 105.67 | ng    | 0.00     |
| 7) Phenol-d6                   | 6.45  | 99   | 1470890  | 117.92 | ng    | -0.02    |
| 23) Nitrobenzene-d5            | 7.36  | 82   | 879100   | 76.05  | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol       | 10.63 | 330  | 330207   | 104.01 | ng    | -0.02    |
| 45) 2-Fluorobiphenyl           | 9.16  | 172  | 1599329  | 78.78  | ng    | -0.02    |
| 79) Terphenyl-d14              | 12.90 | 244  | 1602813  | 71.82  | ng    | -0.01    |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.36  | 70   | 115342   | 14.588 | ng    | # 77     |
| 25) Isophorone                 | 7.36  | 82   | 879096   | 41.007 | ng    | # 64     |
| 51) 2,6-Dinitrotoluene         | 9.83  | 165  | 38151    | 7.630  | ng    | # 22     |
| 57) 2,4-Dinitrotoluene         | 9.83  | 165  | 38151    | 5.622  | ng    | # 25     |
| 67) 4-Bromophenyl-phenylether  | 10.63 | 248  | 21552    | 3.130  | ng    | # 1      |

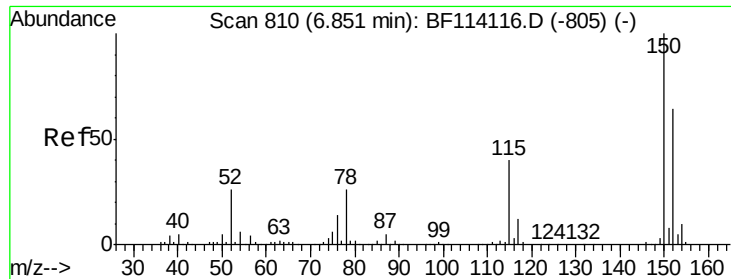
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF052519\  
Data File : BF114627.D  
Acq On : 26 May 2019 3:14  
Operator : JU/SJ  
Sample : PB1120038BL  
Misc :  
ALS Vial : 29 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :

Quant Time: May 27 01:25:10 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri May 24 07:23:33 2019  
Response via : Initial Calibration



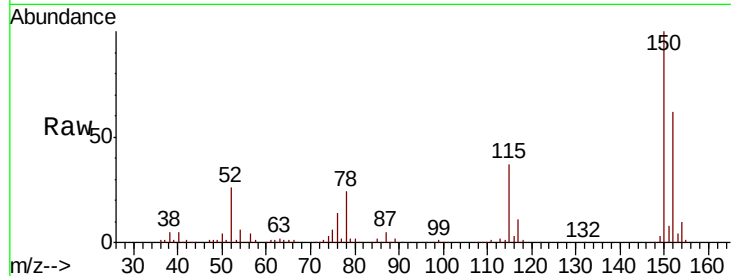


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.80 min Scan# 801  
Delta R.T. -0.02 min  
Lab File: BF114627.D  
Acq: 26 May 2019 3:14

Instrument :  
BNA\_F  
ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 160.8 | 124.3 | 186.5 |
| 115     | 60.2  | 49.1  | 73.7  |

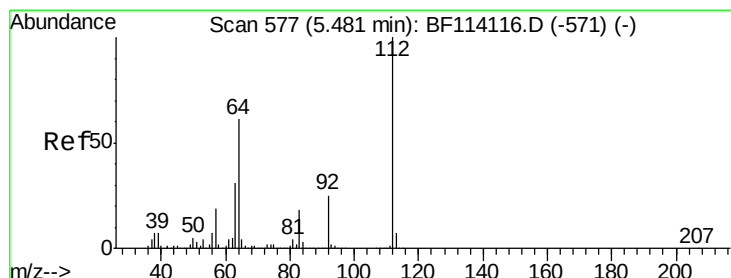
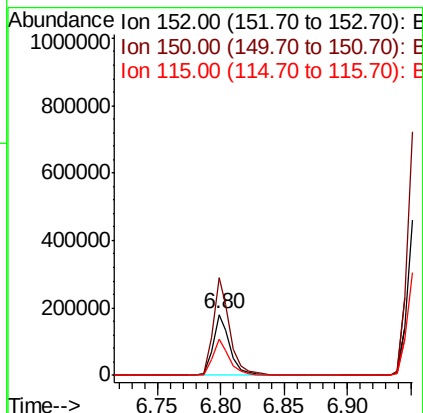
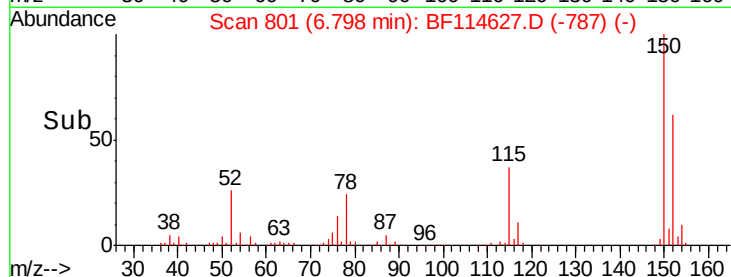


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

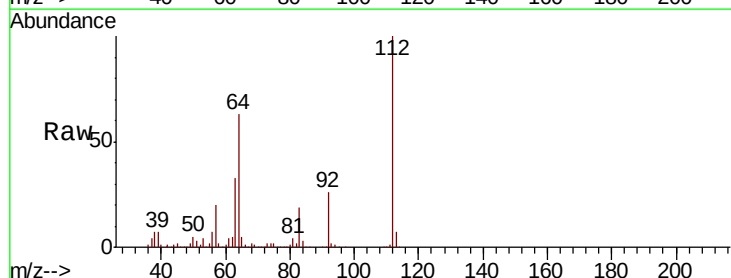
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 105.666 ng  
RT: 5.44 min Scan# 570  
Delta R.T. -0.01 min  
Lab File: BF114627.D  
Acq: 26 May 2019 3:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 62.9  | 49.0  | 73.6  |
| 63      | 32.8  | 24.6  | 37.0  |

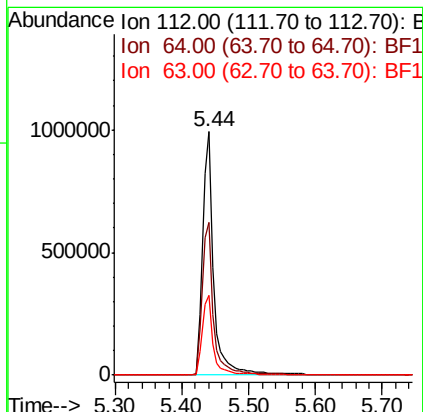
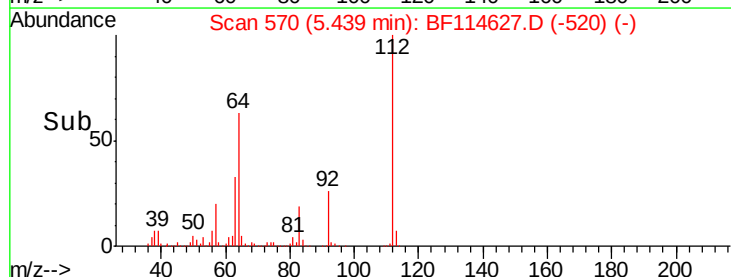


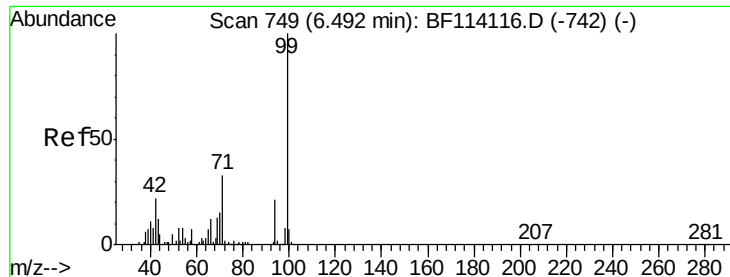
Abundance

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: 117.917 ng

RT: 6.45 min Scan# 741

Delta R.T. -0.02 min

Lab File: BF114627.D

Acq: 26 May 2019 3:14

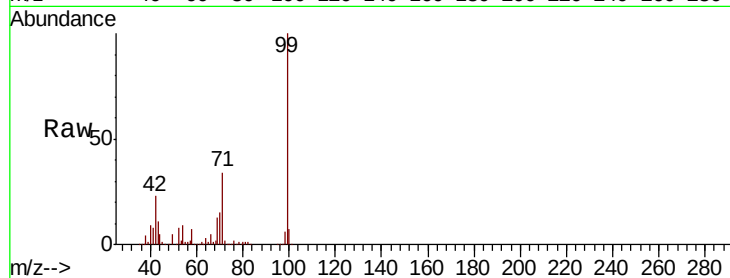
Instrument :

BNA\_F

ClientSampleId :

Tot Ion: 99 Resp: 1470890

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 22.9  | 17.9  | 26.9  |
| 71  | 34.4  | 26.2  | 39.2  |

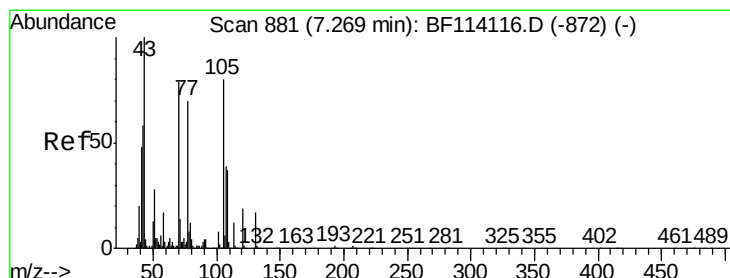
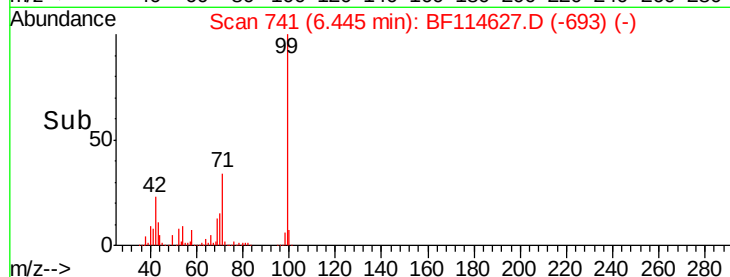
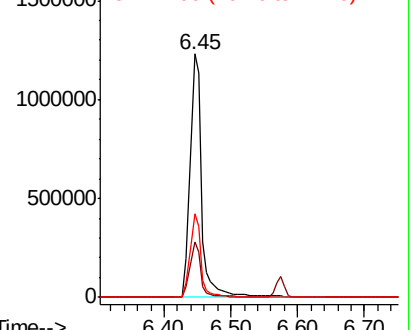


Abundance

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: 14.588 ng

RT: 7.36 min Scan# 897

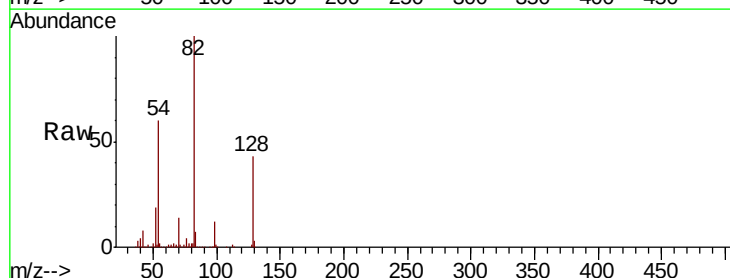
Delta R.T. 0.13 min

Lab File: BF114627.D

Acq: 26 May 2019 3:14

Tgt Ion: 70 Resp: 115342

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 70  | 100   |       |       |
| 42  | 58.4  | 58.6  | 87.8# |
| 101 | 0.0   | 7.8   | 11.8# |
| 130 | 2.4   | 17.1  | 25.7# |



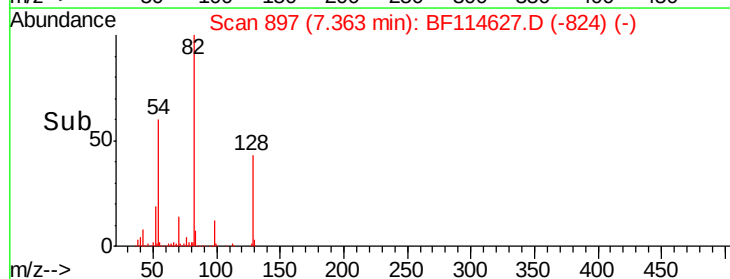
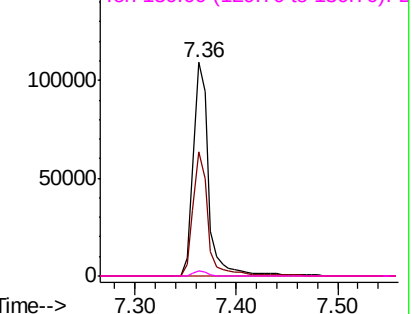
Abundance

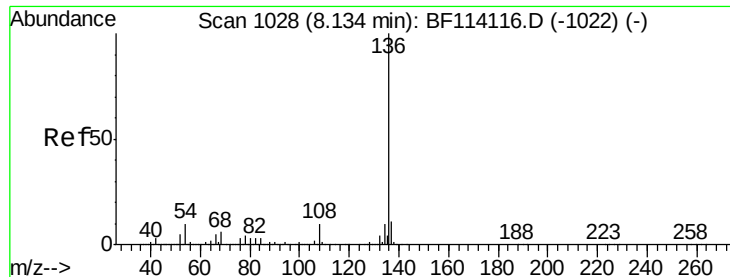
Ion 70.00 (69.70 to 70.70): BF1

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

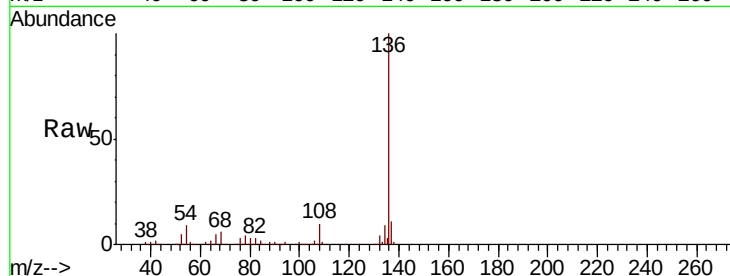




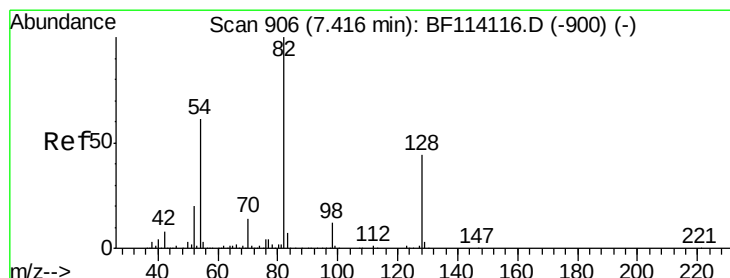
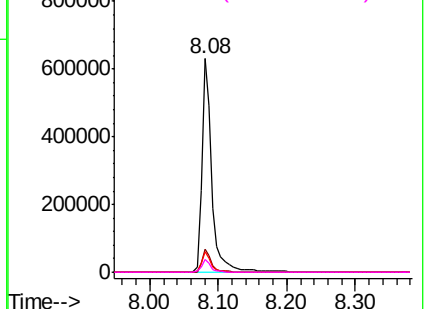
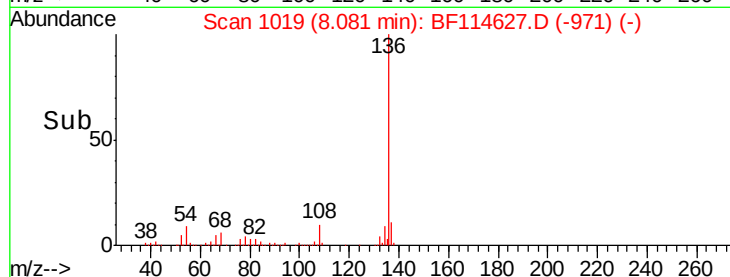
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.08 min Scan# 1019  
Delta R.T. -0.02 min  
Lab File: BF114627.D  
Acq: 26 May 2019 3:14

Instrument :  
BNA\_F  
ClientSampled :

|             |              |
|-------------|--------------|
| Tot Ion:136 | Resp: 648702 |
| Ion Ratio   | Lower Upper  |
| 136 100     |              |
| 137 11.1    | 8.8 13.2     |
| 54 9.4      | 7.8 11.8     |
| 68 5.8      | 5.1 7.7      |

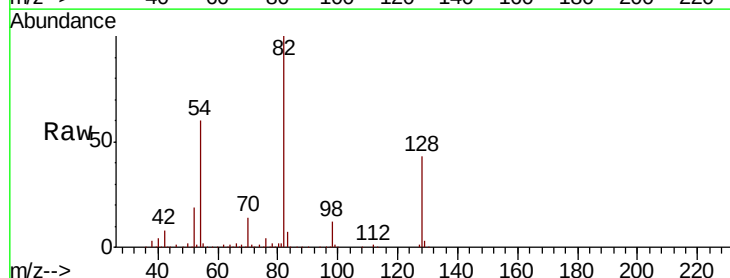


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1

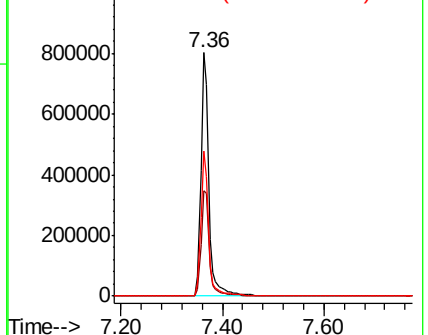
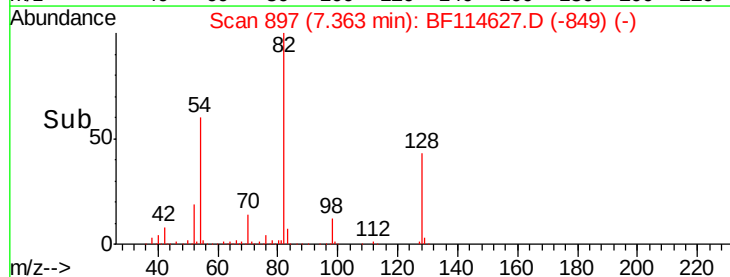


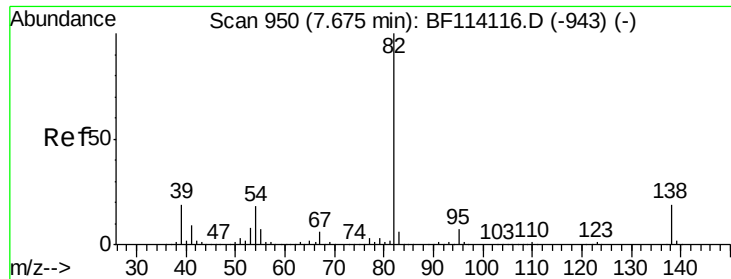
#23  
Nitrobenzene-d5  
Concen: 76.052 ng  
RT: 7.36 min Scan# 897  
Delta R.T. -0.02 min  
Lab File: BF114627.D  
Acq: 26 May 2019 3:14

|             |              |
|-------------|--------------|
| Tgt Ion: 82 | Resp: 879100 |
| Ion Ratio   | Lower Upper  |
| 82 100      |              |
| 128 43.4    | 35.5 53.3    |
| 54 59.6     | 48.5 72.7    |



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: 41.007 ng

RT: 7.36 min Scan# 897

Delta R.T. -0.28 min

Lab File: BF114627.D

Acq: 26 May 2019 3:14

Instrument :

BNA\_F

ClientSampleId :

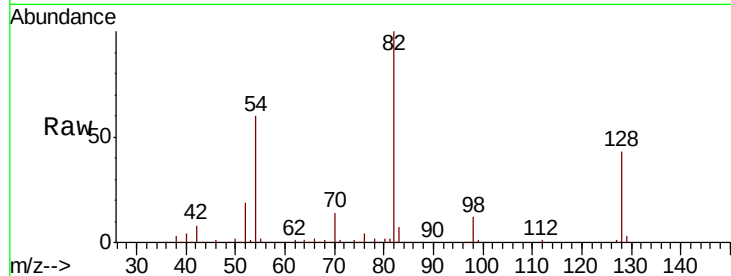
Tot Ion: 82 Resp: 879096

Ion Ratio Lower Upper

82 100

95 0.0 5.6 8.4#

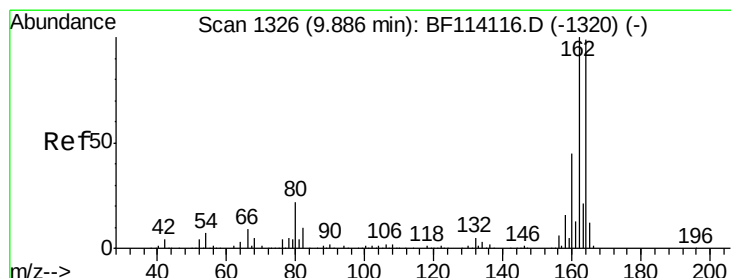
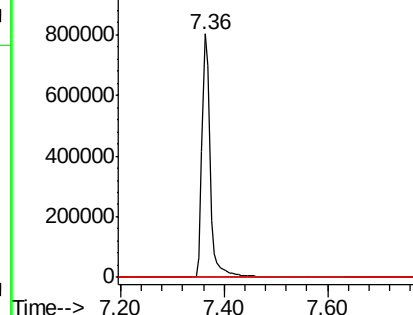
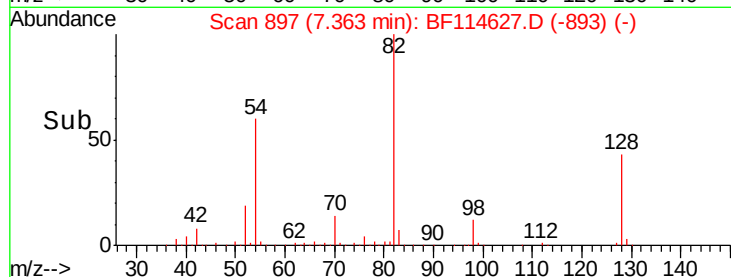
138 0.0 14.8 22.2#



Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 95.00 (94.70 to 95.70): BF1

Ion 138.00 (137.70 to 138.70): BF1



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.83 min Scan# 1317

Delta R.T. -0.02 min

Lab File: BF114627.D

Acq: 26 May 2019 3:14

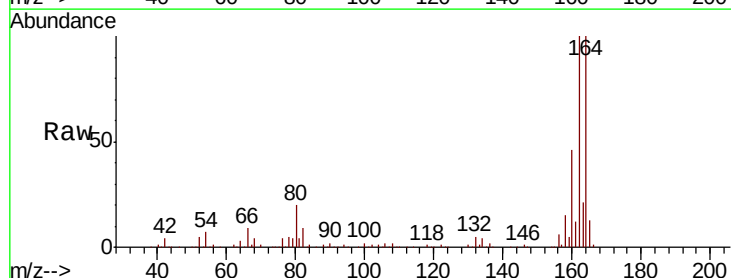
Tgt Ion: 164 Resp: 307075

Ion Ratio Lower Upper

164 100

162 100.2 80.6 120.8

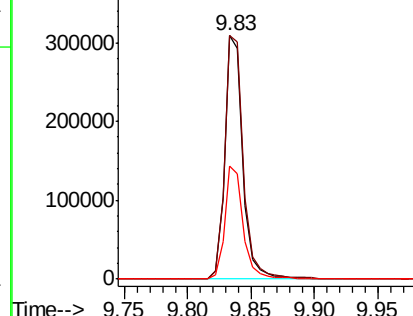
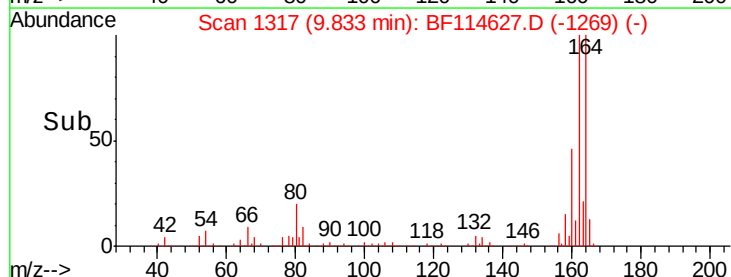
160 46.3 36.5 54.7

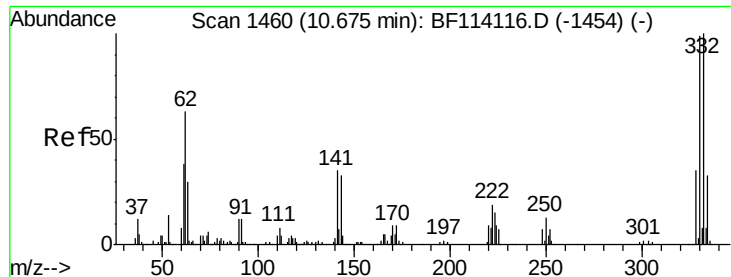


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#42

2,4,6-Tribromophenol

Concen: 104.014 ng

RT: 10.63 min Scan# 1452

Delta R.T. -0.02 min

Lab File: BF114627.D

Acq: 26 May 2019 3:14

Instrument :

BNA\_F

ClientSampleId :

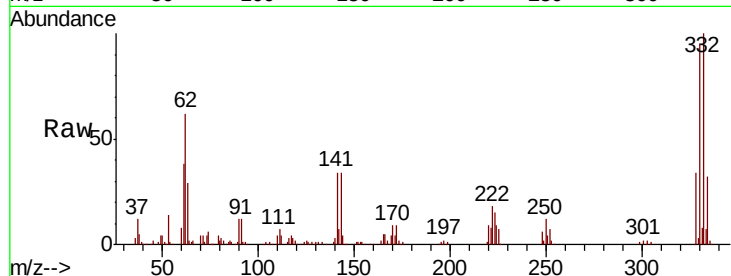
Tot Ion:330 Resp: 330207

Ion Ratio Lower Upper

330 100

332 103.1 81.4 122.2

141 33.1 26.6 40.0

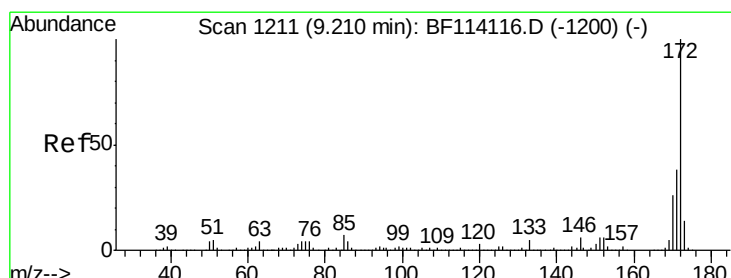
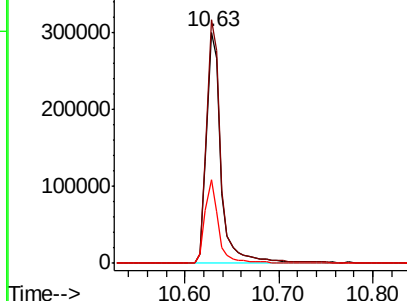
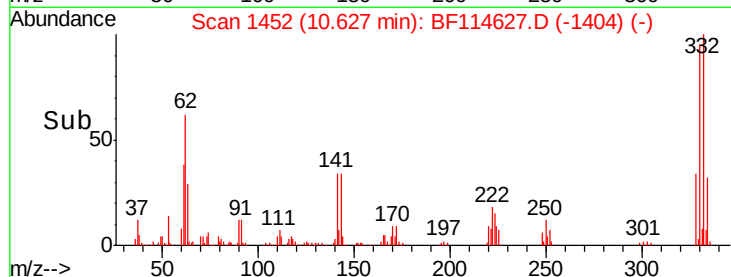


Abundance

Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45

2-Fluorobiphenyl

Concen: 78.784 ng

RT: 9.16 min Scan# 1202

Delta R.T. -0.02 min

Lab File: BF114627.D

Acq: 26 May 2019 3:14

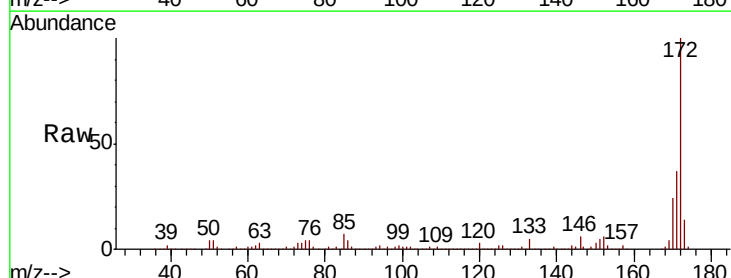
Tgt Ion:172 Resp: 1599329

Ion Ratio Lower Upper

172 100

171 36.5 30.7 46.1

170 24.0 20.5 30.7

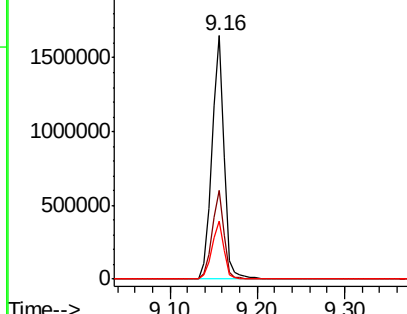
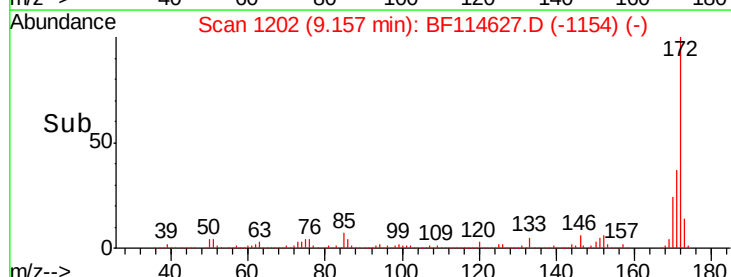


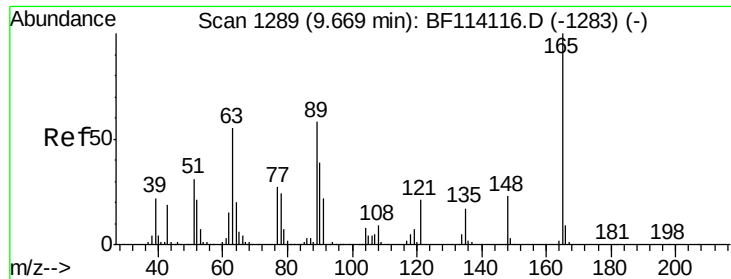
Abundance

Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#51

2,6-Dinitrotoluene

Concen: 7.630 ng

RT: 9.83 min Scan# 1317

Delta R.T. 0.19 min

Lab File: BF114627.D

Acq: 26 May 2019 3:14

Instrument :

BNA\_F

ClientSampleId :

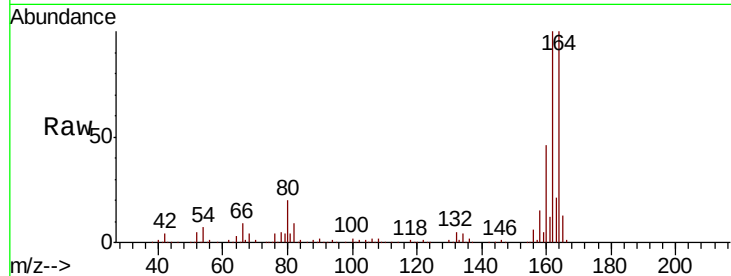
Tot Ion:165 Resp: 38151

Ion Ratio Lower Upper

165 100

63 1.3 50.2 75.4#

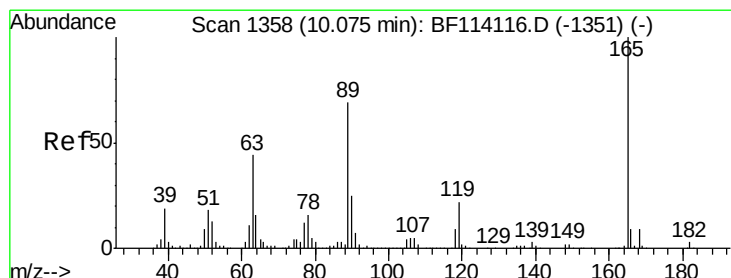
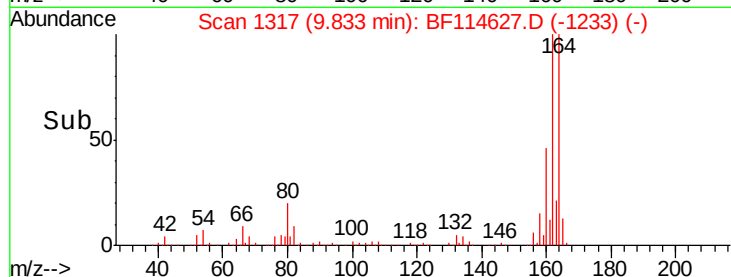
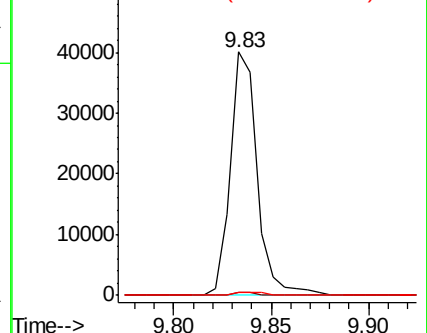
89 1.4 46.6 69.8#



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: 5.622 ng

RT: 9.83 min Scan# 1317

Delta R.T. -0.22 min

Lab File: BF114627.D

Acq: 26 May 2019 3:14

Tgt Ion:165 Resp: 38151

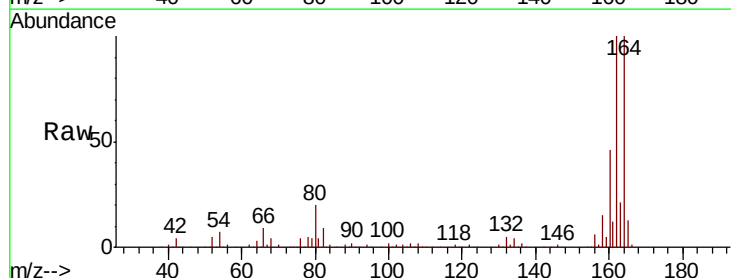
Ion Ratio Lower Upper

165 100

63 1.3 35.5 53.3#

89 1.4 55.2 82.8#

182 0.0 2.2 3.2#

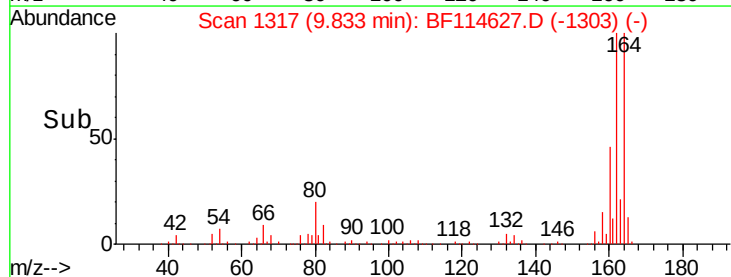
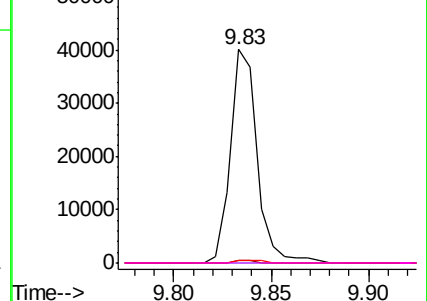


Abundance Ion 165.00 (164.70 to 165.70): E

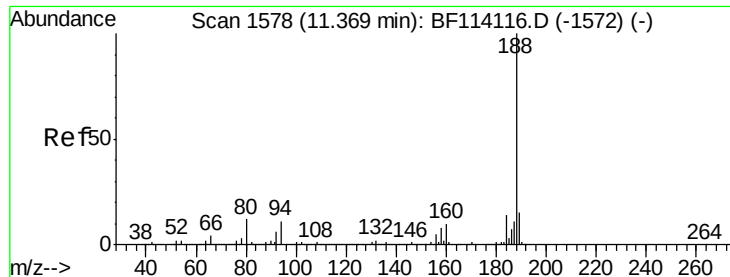
Ion 63.00 (62.70 to 63.70): BF1

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: 11.32 min Scan# 1570

Delta R.T. -0.02 min

Lab File: BF114627.D

Acq: 26 May 2019 3:14

Instrument :

BNA\_F

ClientSampleId :

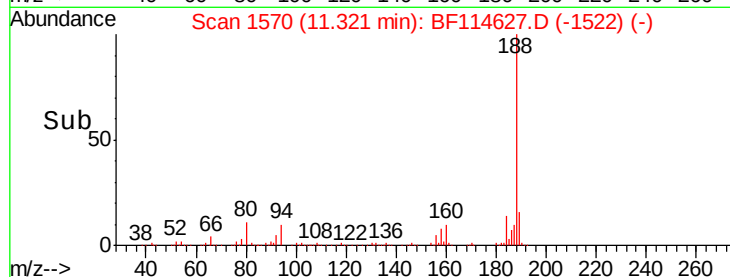
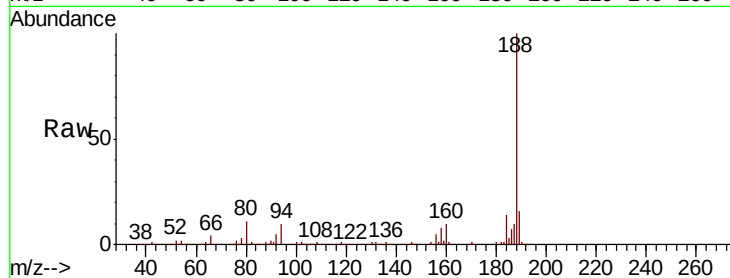
Tot Ion:188 Resp: 625470

Ion Ratio Lower Upper

188 100

94 10.4 8.4 12.6

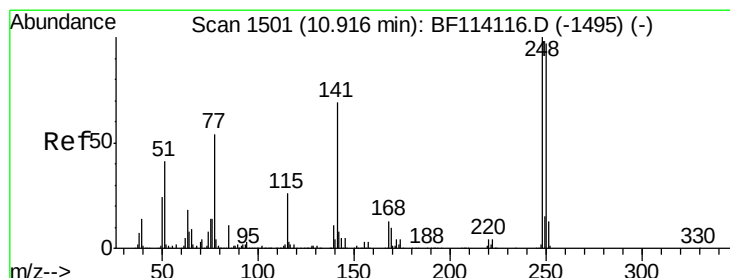
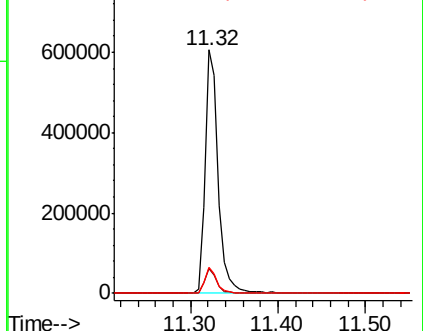
80 10.7 9.2 13.8



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: 3.130 ng

RT: 10.63 min Scan# 1452

Delta R.T. -0.25 min

Lab File: BF114627.D

Acq: 26 May 2019 3:14

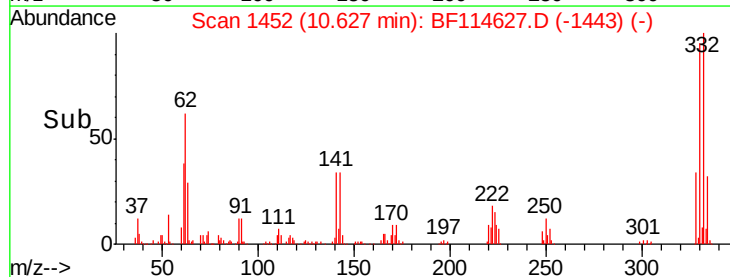
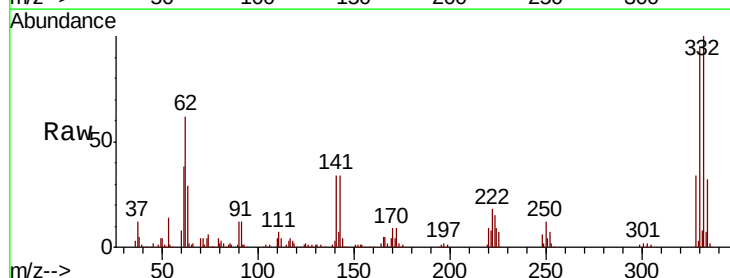
Tgt Ion:248 Resp: 21552

Ion Ratio Lower Upper

248 100

250 198.9 77.4 116.2#

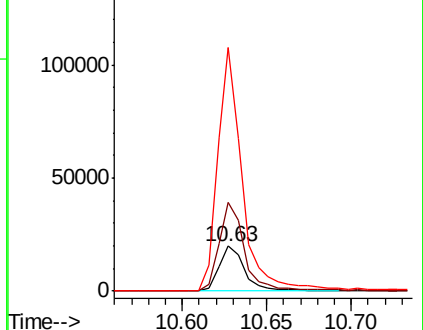
141 542.6 55.6 83.4#

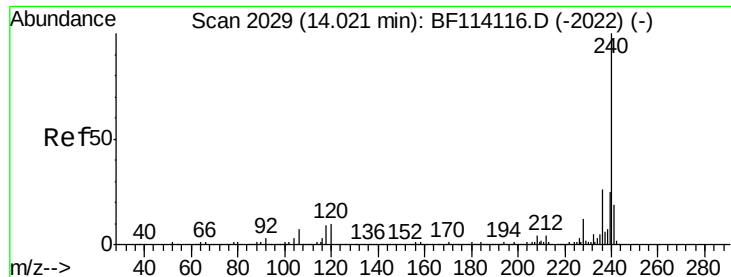


Abundance Ion 248.00 (247.70 to 248.70): E

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: 13.97 min Scan# 2020

Delta R.T. -0.02 min

Lab File: BF114627.D

Acq: 26 May 2019 3:14

Instrument :

BNA\_F

ClientSampleId :

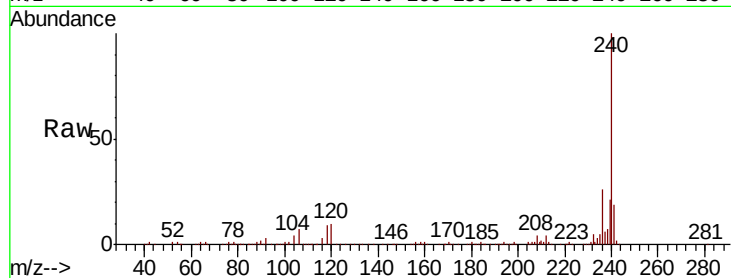
Tot Ion:240 Resp: 460036

Ion Ratio Lower Upper

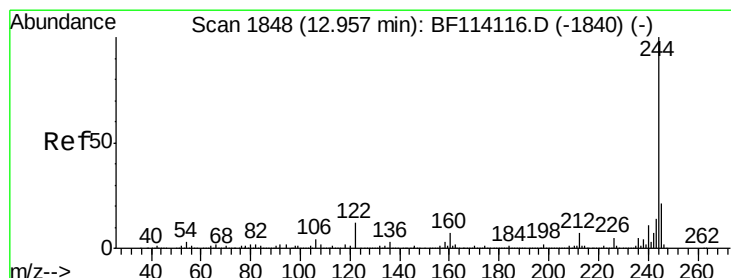
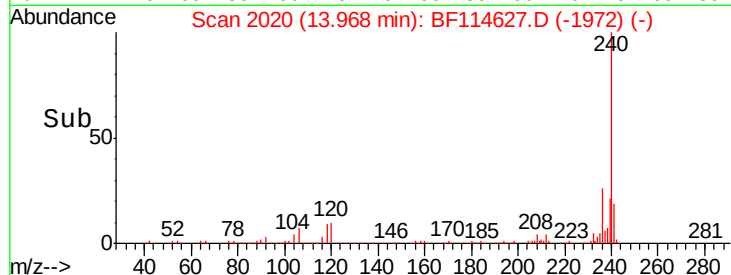
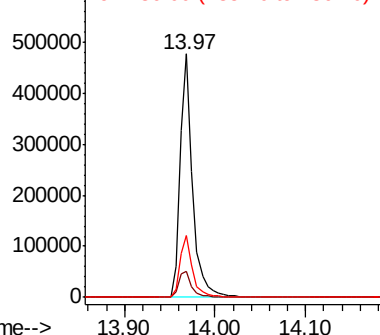
240 100

120 10.4 8.3 12.5

236 25.6 20.8 31.2



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: 71.822 ng

RT: 12.90 min Scan# 1839

Delta R.T. -0.01 min

Lab File: BF114627.D

Acq: 26 May 2019 3:14

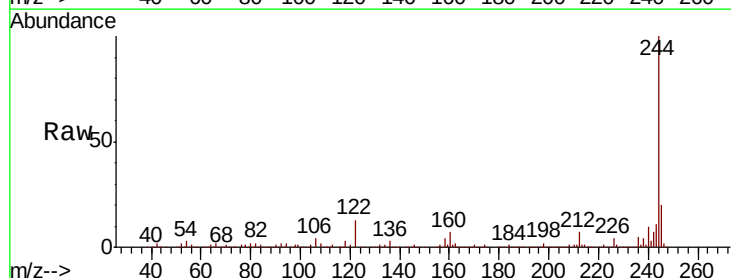
Tgt Ion:244 Resp: 1602813

Ion Ratio Lower Upper

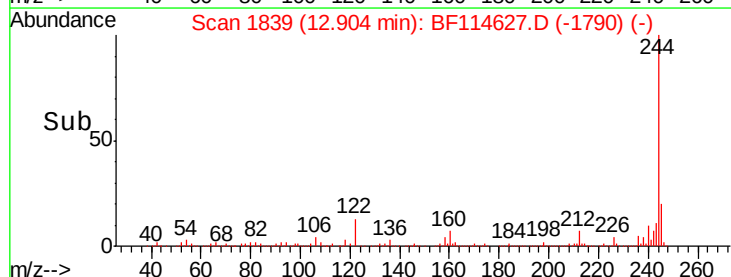
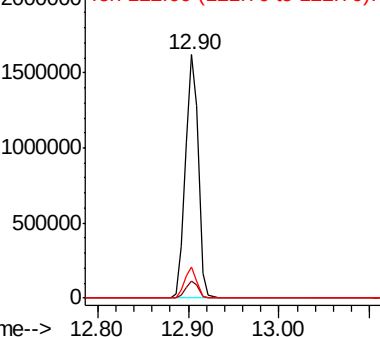
244 100

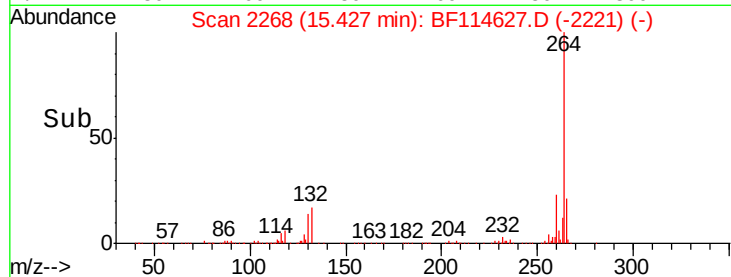
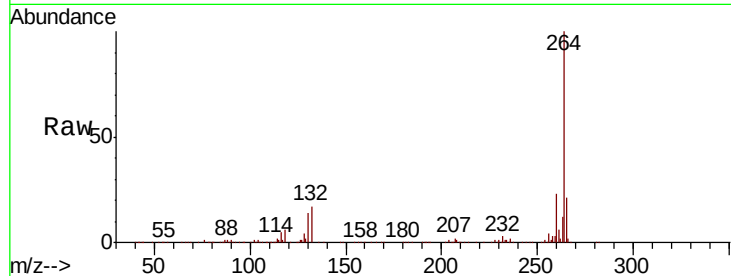
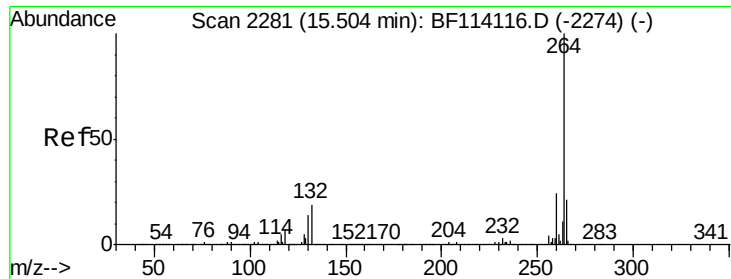
212 6.8 5.8 8.6

122 12.9 9.4 14.2



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: 15.43 min Scan# 2268  
Delta R.T. -0.02 min  
Lab File: BF114627.D  
Acq: 26 May 2019 3:14

Instrument :  
BNA\_F  
ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 264   | Resp: | 432325 |
| Ion      | Ratio | Lower | Upper  |
| 264      | 100   |       |        |
| 260      | 23.0  | 19.4  | 29.0   |
| 265      | 21.2  | 16.9  | 25.3   |

