

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072719\  
 Data File : BF115819.D  
 Acq On : 27 Jul 2019 9:59  
 Operator : HP/JU  
 Sample : PB121745TB  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Jul 29 00:58:29 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071219.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Jul 25 13:16:07 2019  
 Response via : Initial Calibration

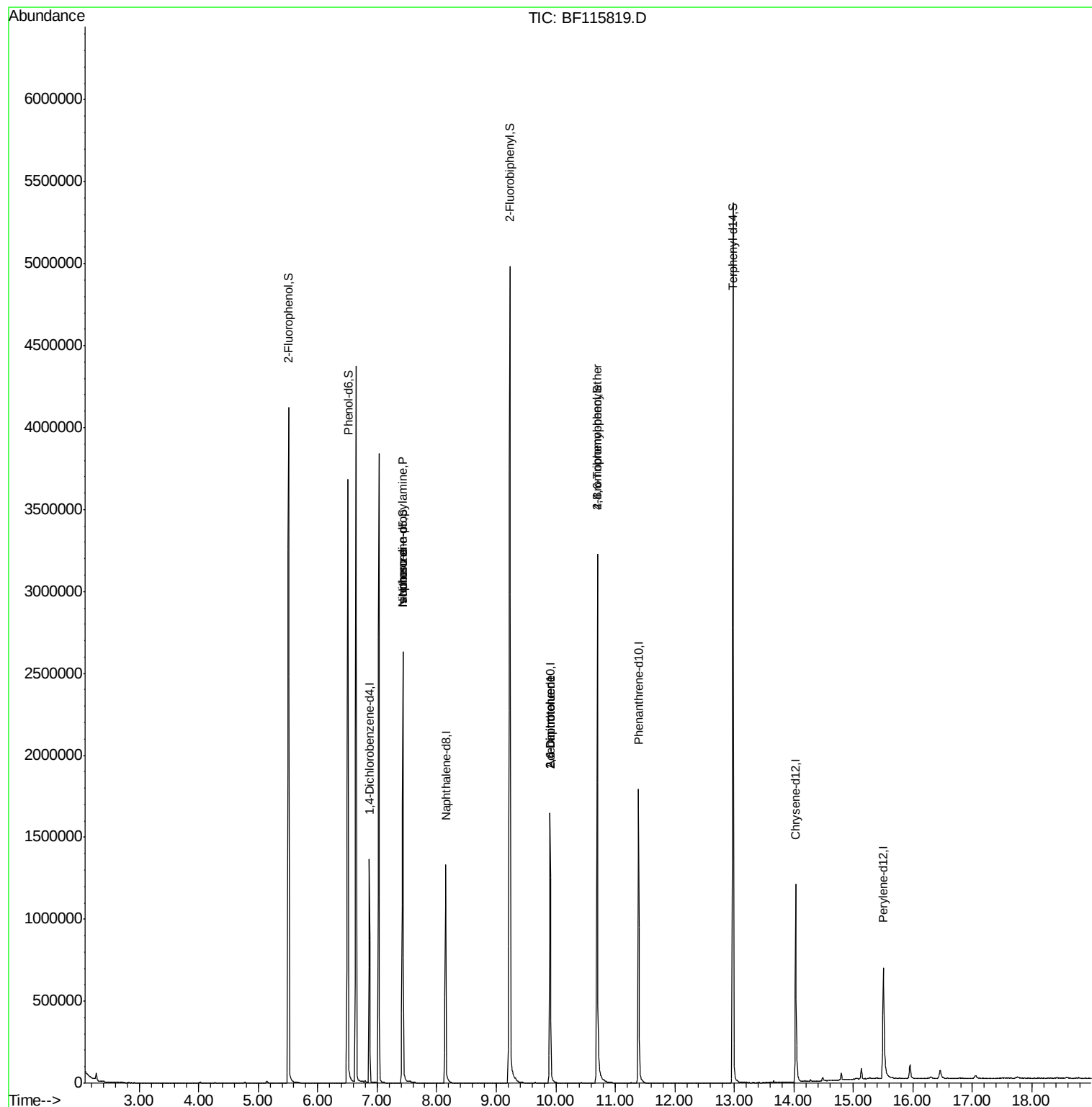
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.87  | 152  | 193185   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.15  | 136  | 748923   | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10           | 9.90  | 164  | 417183   | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10           | 11.39 | 188  | 757155   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12               | 14.03 | 240  | 531437   | 20.00  | ng    | 0.00     |
| 87) Perylene-d12               | 15.50 | 264  | 478030   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.51  | 112  | 1345694  | 113.94 | ng    | 0.02     |
| 7) Phenol-d6                   | 6.51  | 99   | 1746927  | 116.57 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.43  | 82   | 1168331  | 90.71  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol       | 10.70 | 330  | 547258   | 112.38 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl           | 9.23  | 172  | 2178751  | 91.41  | ng    | 0.00     |
| 79) Terphenyl-d14              | 12.98 | 244  | 2332563  | 80.99  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.43  | 70   | 157991   | 16.165 | ng    | # 78     |
| 25) Isophorone                 | 7.43  | 82   | 1163606  | 45.149 | ng    | # 65     |
| 51) 2,6-Dinitrotoluene         | 9.90  | 165  | 52602    | 7.374  | ng    | # 25     |
| 57) 2,4-Dinitrotoluene         | 9.90  | 165  | 52869    | 5.721  | ng    | # 25     |
| 67) 4-Bromophenyl-phenylether  | 10.70 | 248  | 33548    | 3.877  | ng    | # 1      |

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

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Sample : PB121745TB  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :

Quant Time: Jul 29 00:58:29 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071219.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Jul 25 13:16:07 2019  
Response via : Initial Calibration



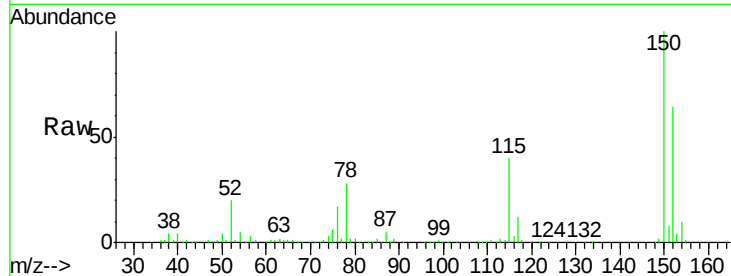


#1

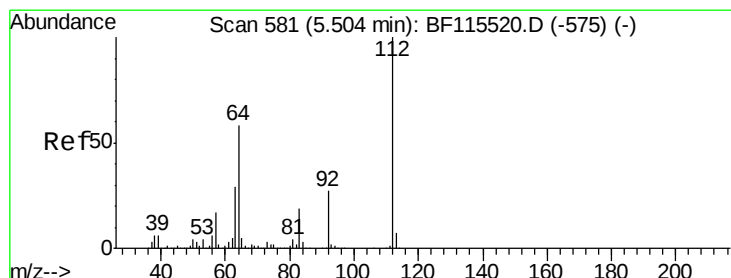
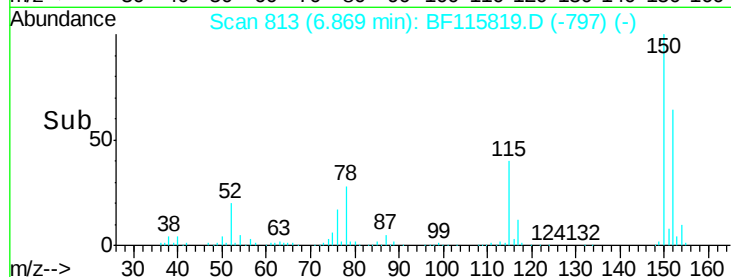
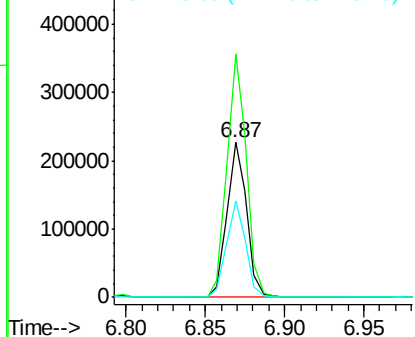
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.87 min Scan# 813  
Delta R.T. -0.01 min  
Lab File: BF115819.D  
Acq: 27 Jul 2019 9:59

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 193185  
Ion Ratio Lower Upper  
152 100  
150 156.9 126.6 189.8  
115 62.5 47.8 71.6



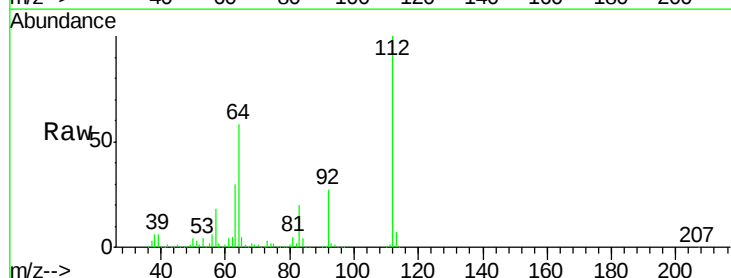
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



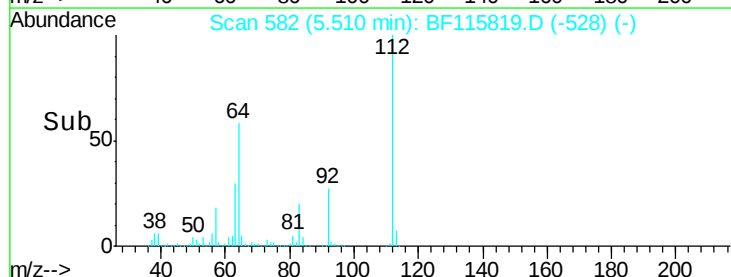
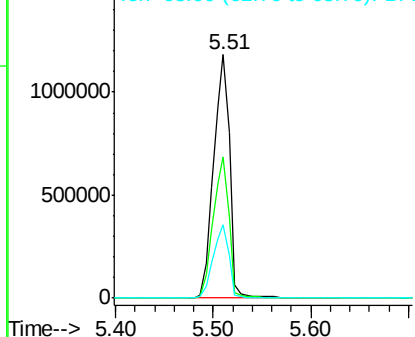
#5

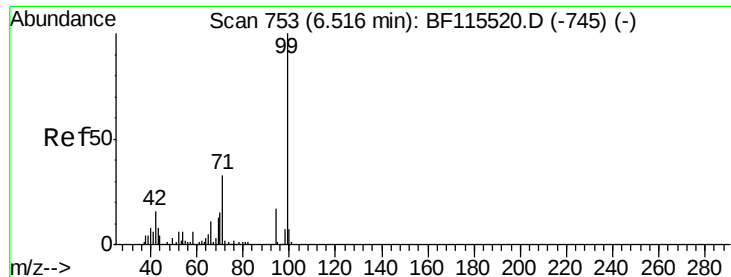
2-Fluorophenol  
Concen: 113.941 ng  
RT: 5.51 min Scan# 582  
Delta R.T. 0.02 min  
Lab File: BF115819.D  
Acq: 27 Jul 2019 9:59

Tgt Ion:112 Resp: 1345694  
Ion Ratio Lower Upper  
112 100  
64 58.1 45.8 68.8  
63 30.4 23.6 35.4



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: 116.570 ng

RT: 6.51 min Scan# 752

Delta R.T. 0.01 min

Lab File: BF115819.D

Acq: 27 Jul 2019 9:59

Instrument :

BNA\_F

ClientSampleId :

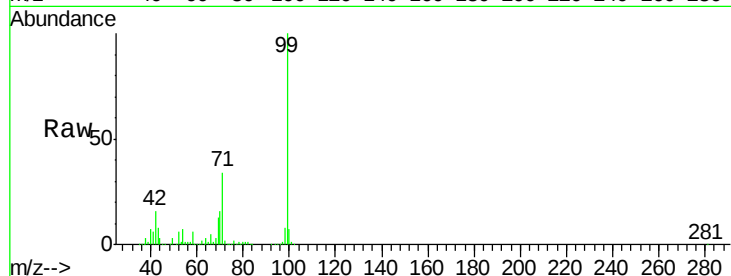
Tot Ion: 99 Resp: 1746927

Ion Ratio Lower Upper

99 100

42 16.5 13.4 20.2

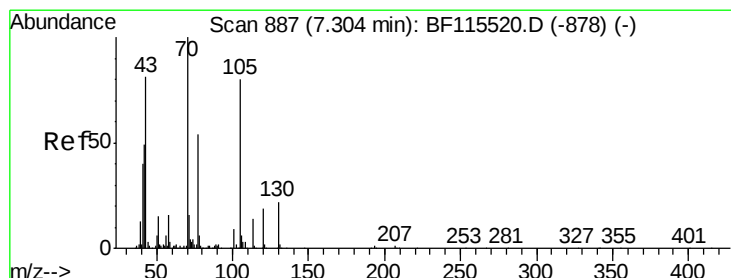
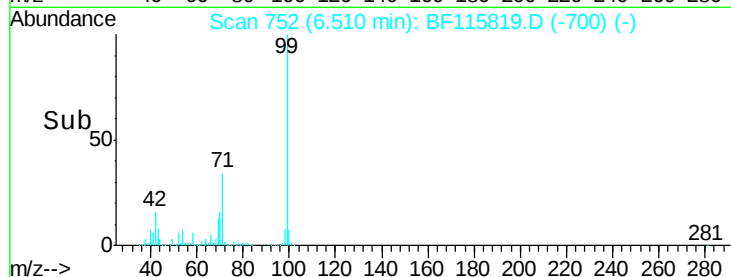
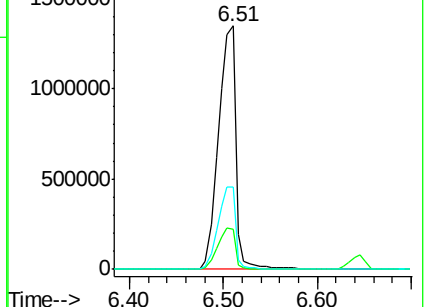
71 33.8 26.7 40.1



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: 16.165 ng

RT: 7.43 min Scan# 909

Delta R.T. 0.15 min

Lab File: BF115819.D

Acq: 27 Jul 2019 9:59

Tgt Ion: 70 Resp: 157991

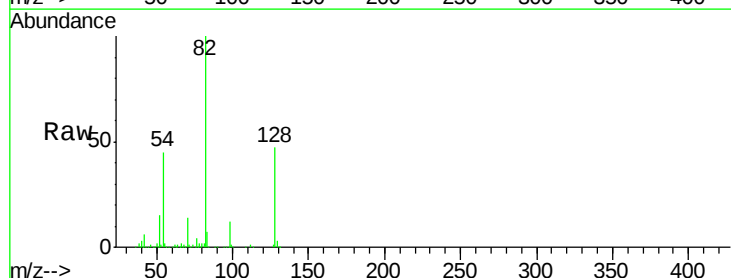
Ion Ratio Lower Upper

70 100

42 42.5 41.8 62.8

101 0.0 7.6 11.4#

130 2.4 16.9 25.3#

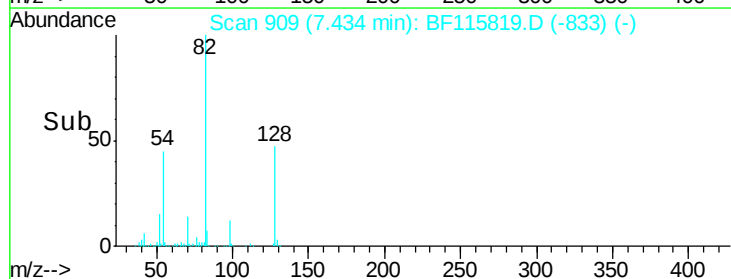
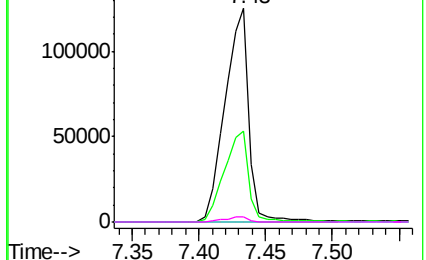


Abundance Ion 70.00 (69.70 to 70.70): BF1

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: 8.15 min Scan# 1031

Delta R.T. -0.01 min

Lab File: BF115819.D

Acq: 27 Jul 2019 9:59

Instrument :

BNA\_F

ClientSampled :

Tot Ion:136 Resp: 748923

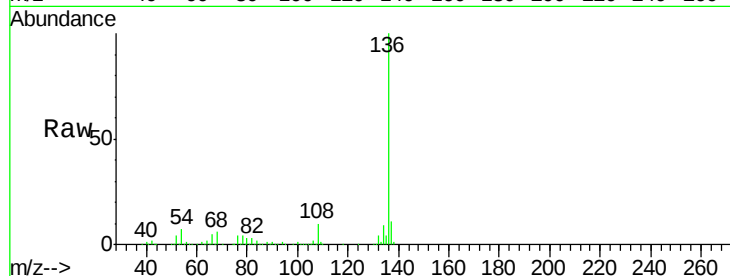
Ion Ratio Lower Upper

136 100

137 11.1 8.7 13.1

54 6.7 5.0 7.6

68 5.9 4.7 7.1

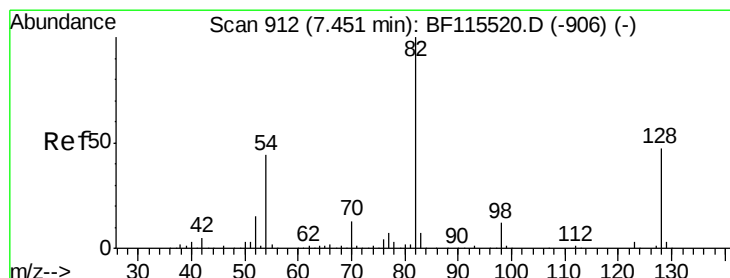
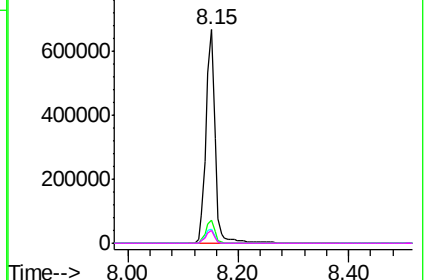
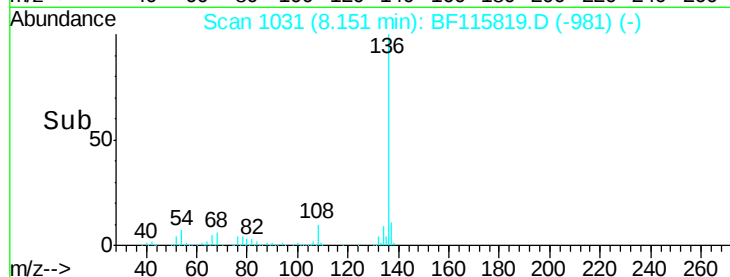


Abundance Ion 136.00 (135.70 to 136.70): E

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: 90.710 ng

RT: 7.43 min Scan# 909

Delta R.T. 0.00 min

Lab File: BF115819.D

Acq: 27 Jul 2019 9:59

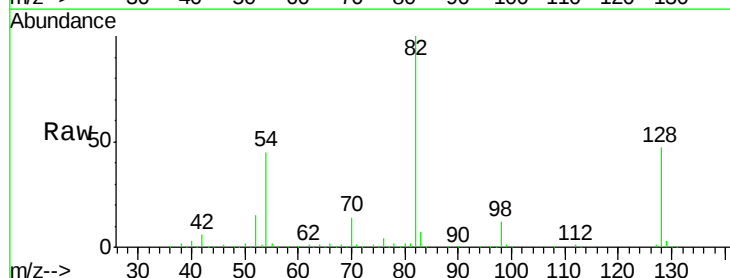
Tgt Ion: 82 Resp: 1168331

Ion Ratio Lower Upper

82 100

128 47.1 36.6 55.0

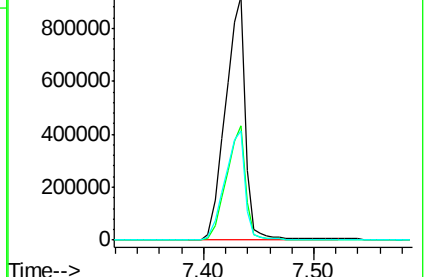
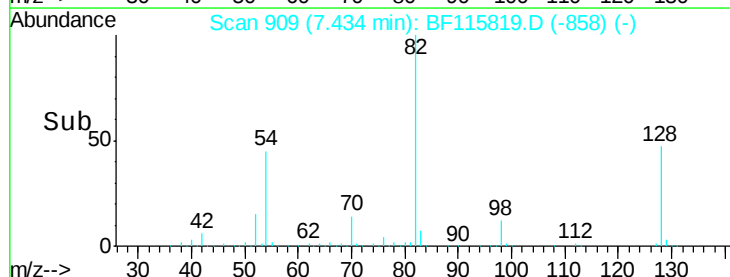
54 44.7 36.6 54.8

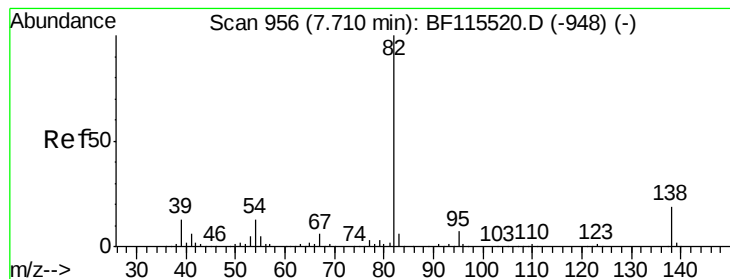


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 45.149 ng

RT: 7.43 min Scan# 909

Delta R.T. -0.26 min

Lab File: BF115819.D

Acq: 27 Jul 2019 9:59

Instrument :

BNA\_F

ClientSampleId :

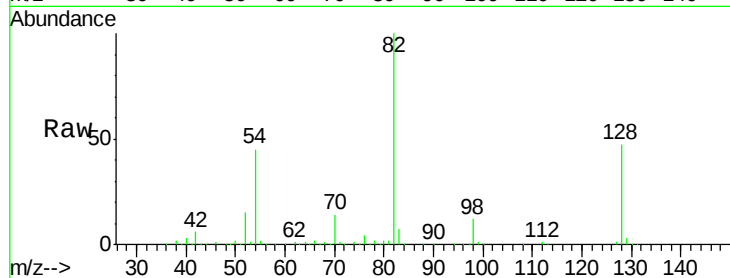
Tot Ion: 82 Resp: 1163606

Ion Ratio Lower Upper

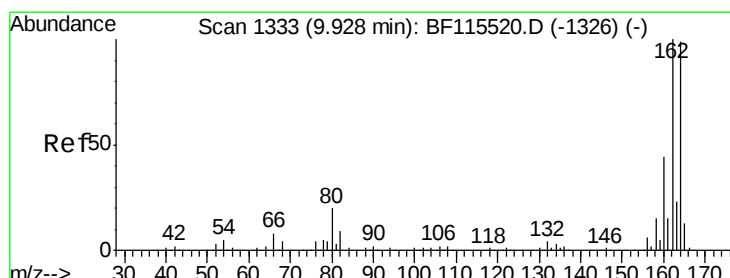
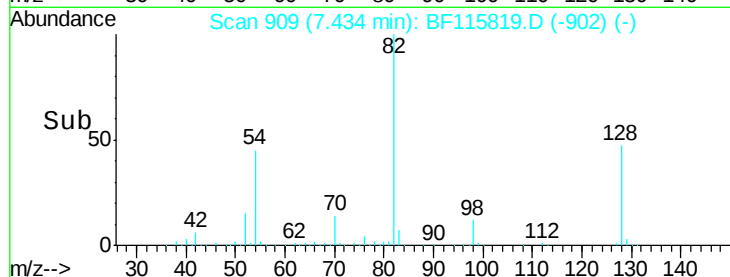
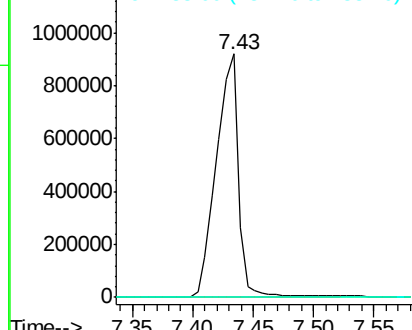
82 100

95 0.0 5.6 8.4#

138 0.0 14.2 21.4#



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: 9.90 min Scan# 1329

Delta R.T. -0.01 min

Lab File: BF115819.D

Acq: 27 Jul 2019 9:59

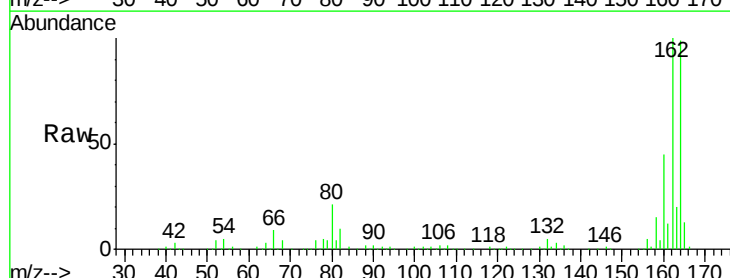
Tgt Ion: 164 Resp: 417183

Ion Ratio Lower Upper

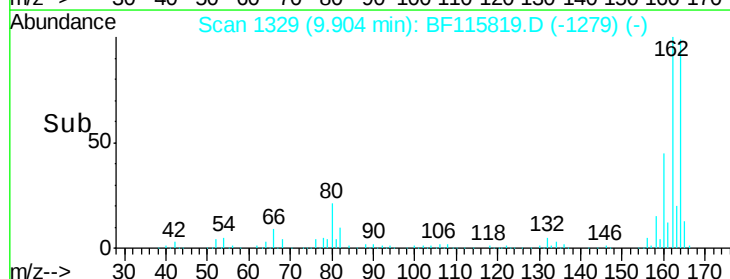
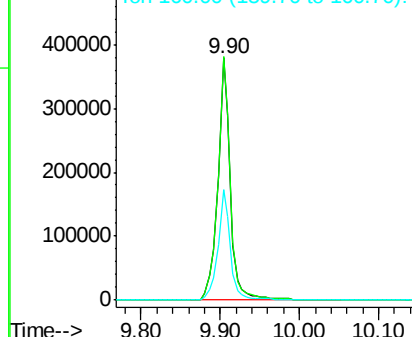
164 100

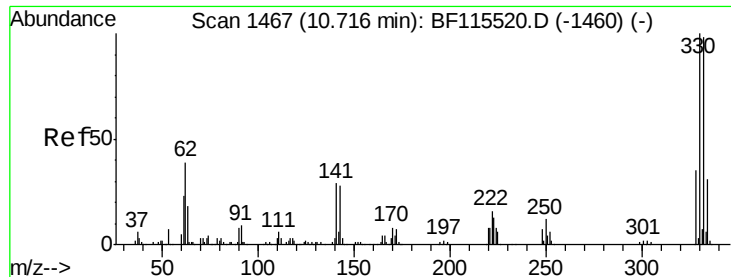
162 100.5 81.8 122.6

160 45.5 37.5 56.3



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

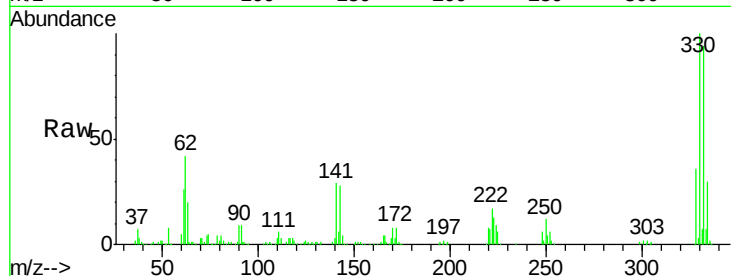




#42  
 2,4,6-Tribromophenol  
 Concen: 112.384 ng  
 RT: 10.70 min Scan# 1464  
 Delta R.T. 0.00 min  
 Lab File: BF115819.D  
 Acq: 27 Jul 2019 9:59

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 95.4  | 76.1  | 114.1 |
| 141     | 32.2  | 25.9  | 38.9  |

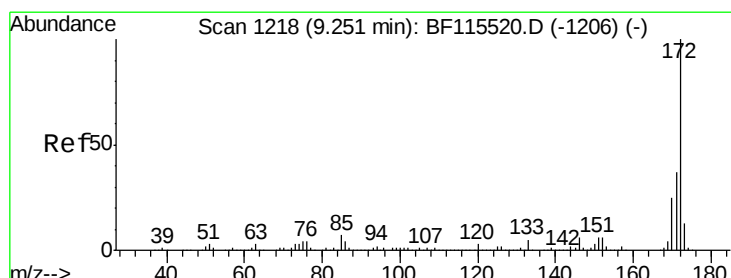
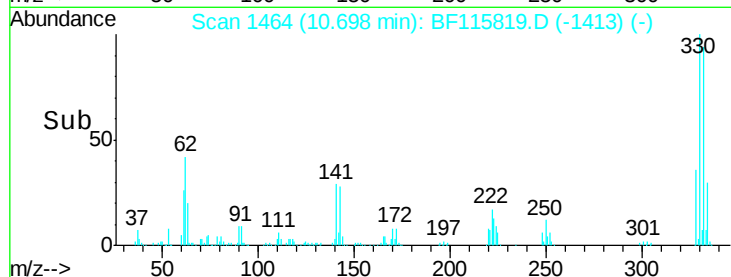
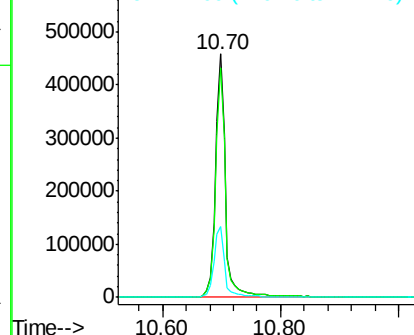


Abundance

Ion 329.80 (329.50 to 330.50): E

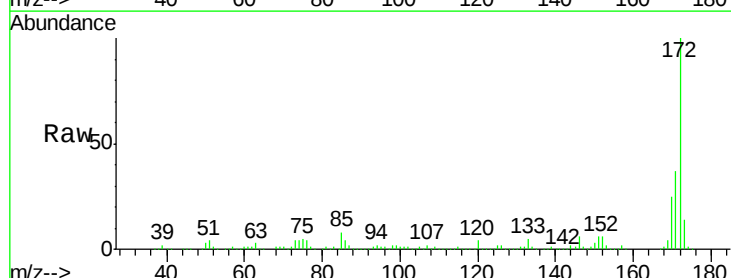
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45  
 2-Fluorobiphenyl  
 Concen: 91.409 ng  
 RT: 9.23 min Scan# 1214  
 Delta R.T. -0.01 min  
 Lab File: BF115819.D  
 Acq: 27 Jul 2019 9:59

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.8  | 29.0  | 43.4  |
| 170     | 25.2  | 20.1  | 30.1  |

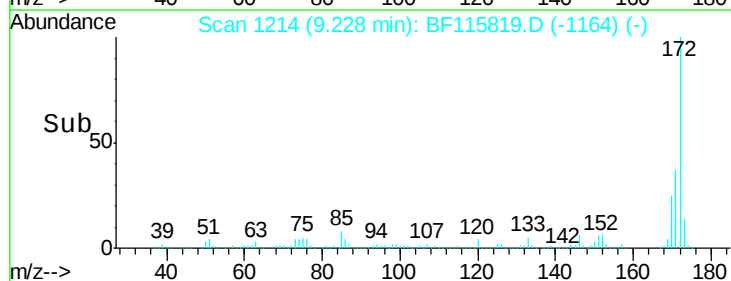
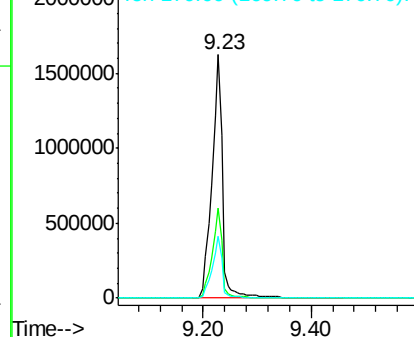


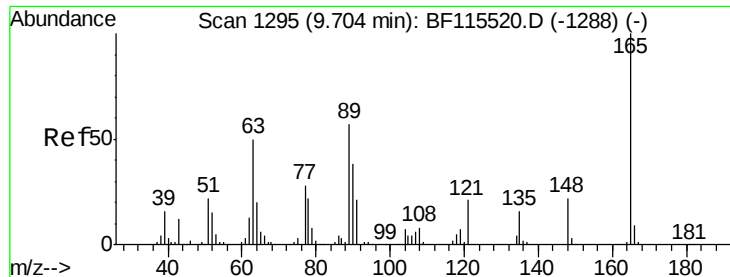
Abundance

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

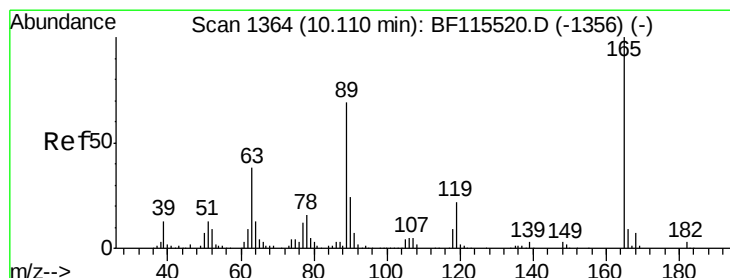
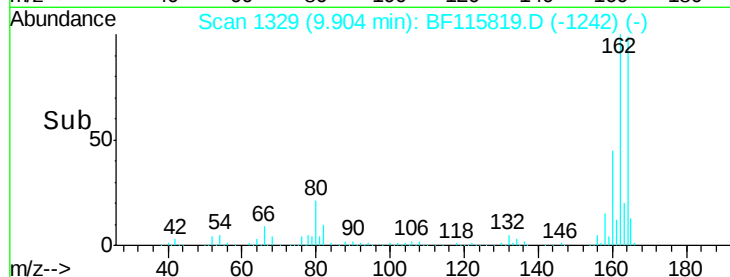
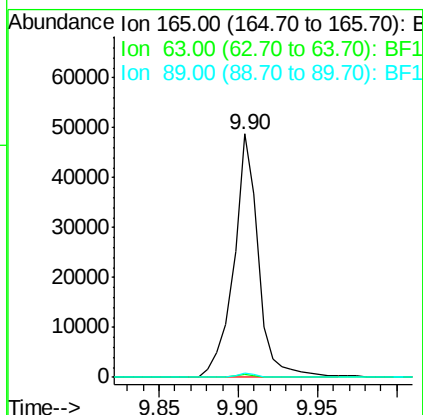
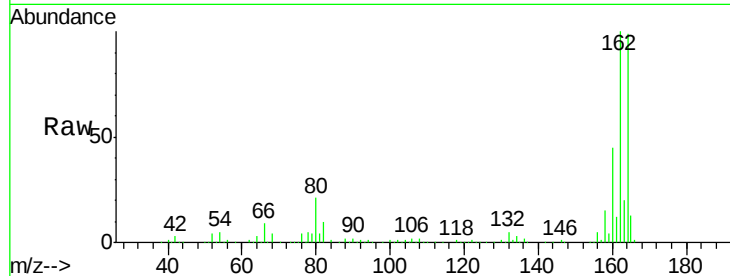




#51  
 2,6-Dinitrotoluene  
 Concen: 7.374 ng  
 RT: 9.90 min Scan# 1329  
 Delta R.T. 0.21 min  
 Lab File: BF115819.D  
 Acq: 27 Jul 2019 9:59

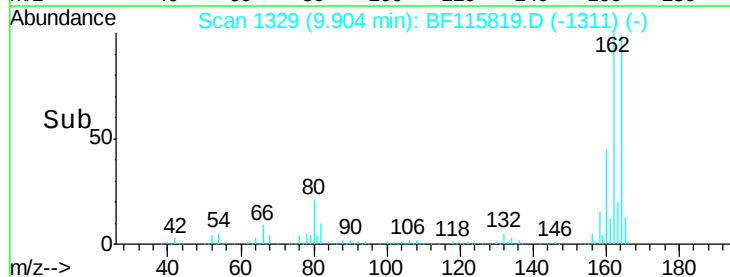
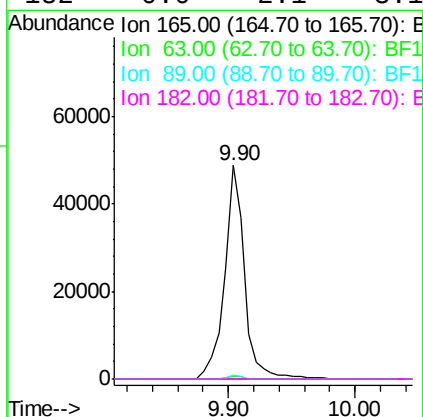
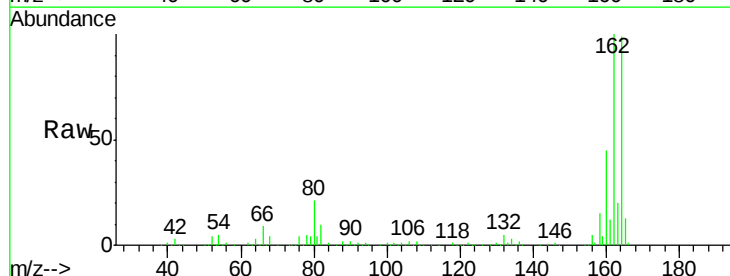
Instrument :  
 BNA\_F  
 ClientSampleId :

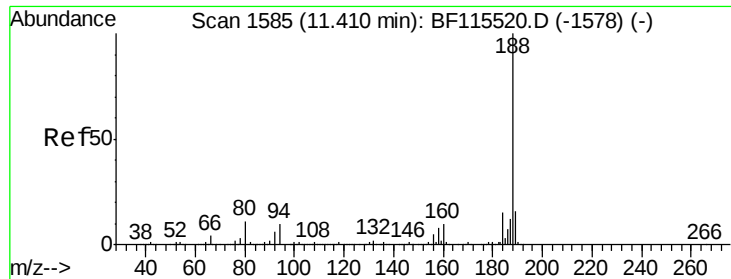
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.1   | 43.5  | 65.3# |
| 89      | 1.7   | 46.3  | 69.5# |



#57  
 2,4-Dinitrotoluene  
 Concen: 5.721 ng  
 RT: 9.90 min Scan# 1329  
 Delta R.T. -0.19 min  
 Lab File: BF115819.D  
 Acq: 27 Jul 2019 9:59

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.1   | 33.4  | 50.2# |
| 89      | 1.7   | 57.3  | 85.9# |
| 182     | 0.0   | 2.1   | 3.1#  |





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.39 min Scan# 1582

Delta R.T. 0.00 min

Lab File: BF115819.D

Acq: 27 Jul 2019 9:59

Instrument :

BNA\_F

ClientSampled :

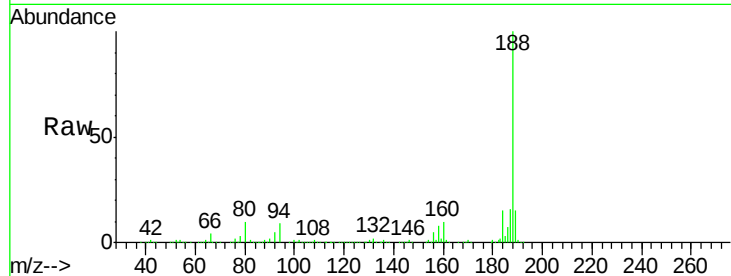
Tot Ion:188 Resp: 757155

Ion Ratio Lower Upper

188 100

94 9.3 8.2 12.2

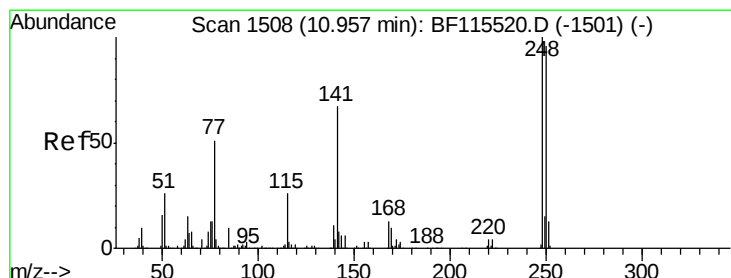
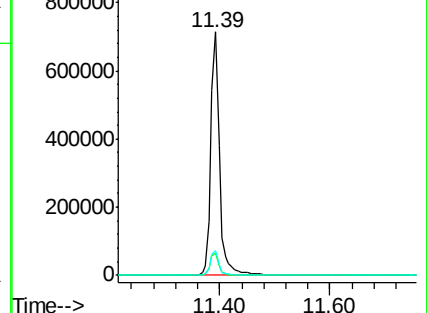
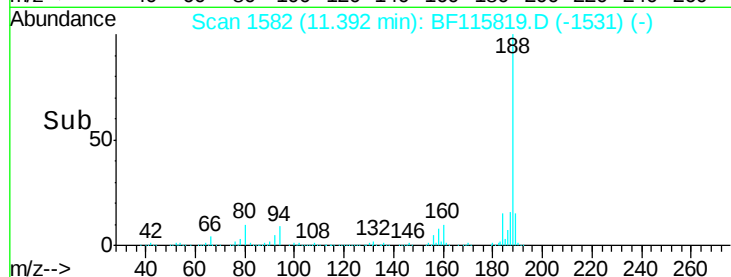
80 10.1 9.0 13.6



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: 3.877 ng

RT: 10.70 min Scan# 1464

Delta R.T. -0.24 min

Lab File: BF115819.D

Acq: 27 Jul 2019 9:59

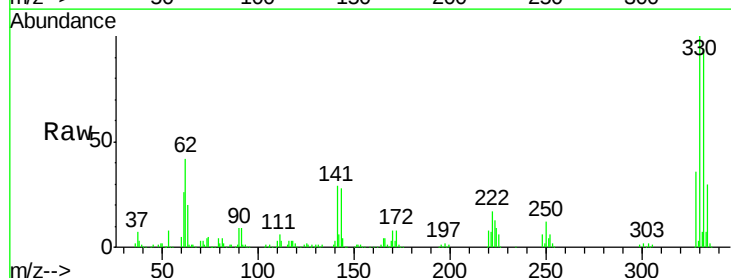
Tgt Ion:248 Resp: 33548

Ion Ratio Lower Upper

248 100

250 198.2 77.0 115.4#

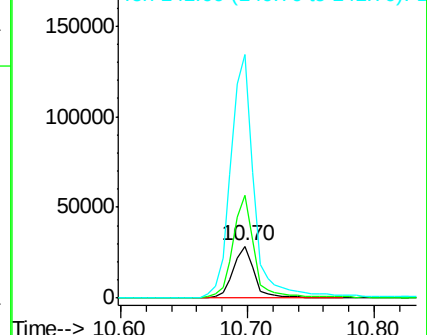
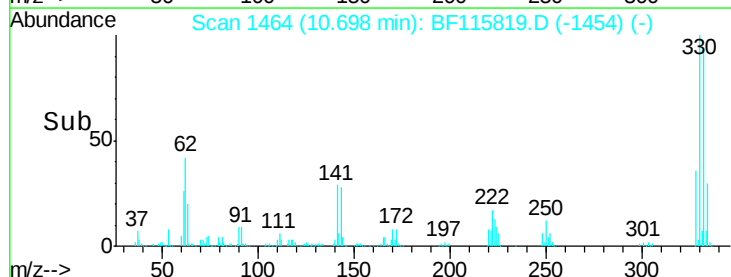
141 467.8 52.1 78.1#

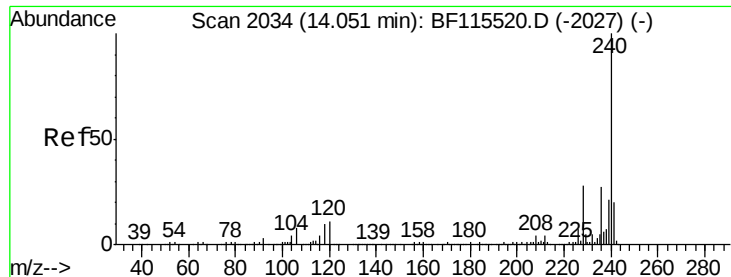


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E

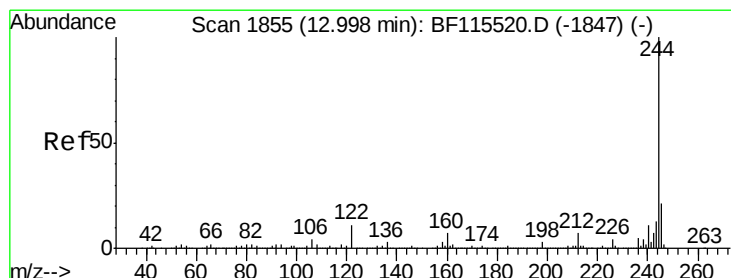
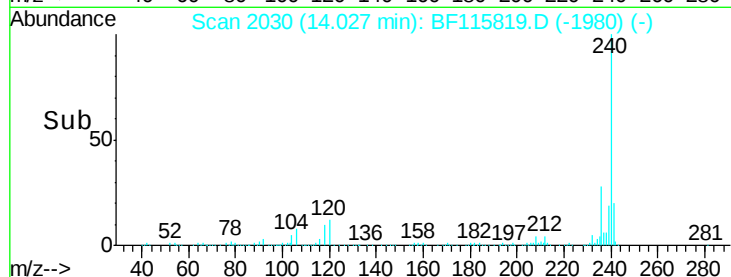
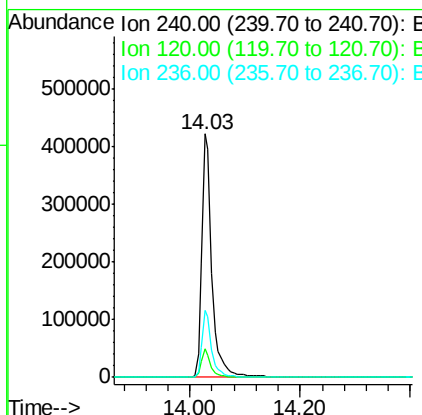
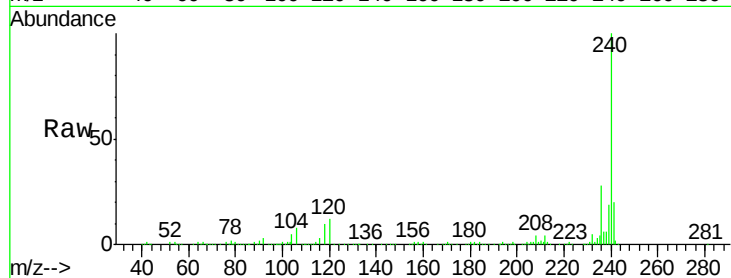




#76  
 Chrvsene-d12  
 Concen: 20.000 ng  
 RT: 14.03 min Scan# 2030  
 Delta R.T. -0.01 min  
 Lab File: BF115819.D  
 Acq: 27 Jul 2019 9:59

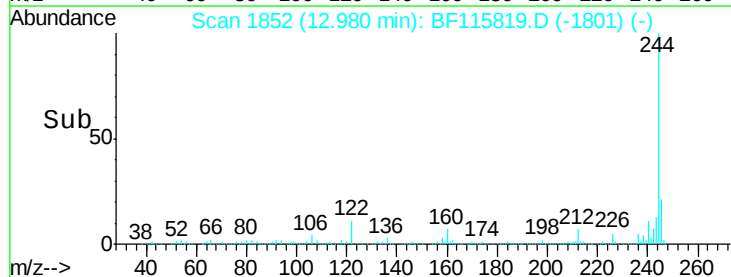
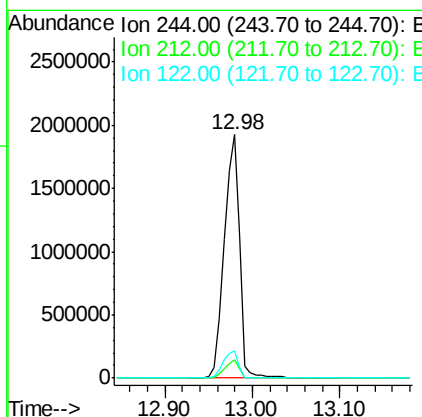
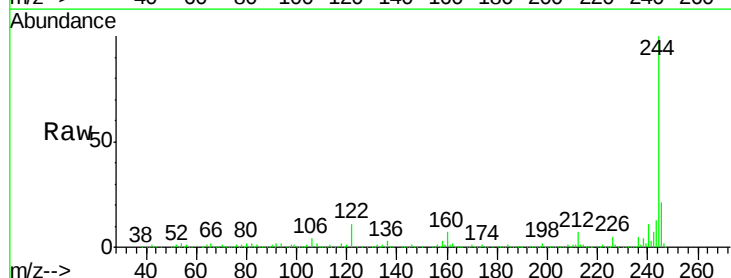
Instrument :  
 BNA\_F  
 ClientSampleId :

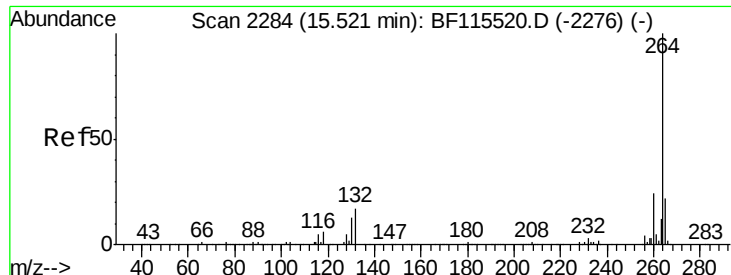
Tot Ion:240 Resp: 531437  
 Ion Ratio Lower Upper  
 240 100  
 120 11.9 10.0 15.0  
 236 27.6 21.8 32.6



#79  
 Terphenyl-d14  
 Concen: 80.987 ng  
 RT: 12.98 min Scan# 1852  
 Delta R.T. 0.00 min  
 Lab File: BF115819.D  
 Acq: 27 Jul 2019 9:59

Tgt Ion:244 Resp: 2332563  
 Ion Ratio Lower Upper  
 244 100  
 212 7.3 5.5 8.3  
 122 11.1 8.2 12.4

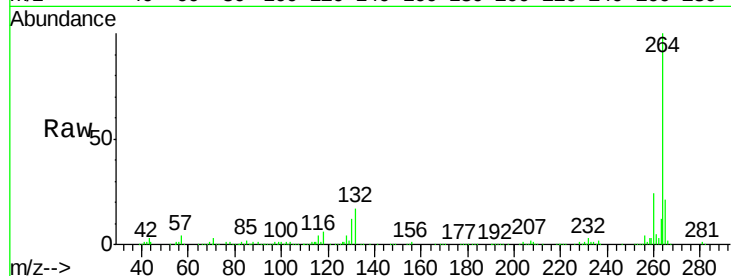




#87  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.50 min Scan# 2281  
Delta R.T. 0.01 min  
Lab File: BF115819.D  
Acq: 27 Jul 2019 9:59

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:264 Resp: 478030  
Ion Ratio Lower Upper  
264 100  
260 24.2 19.8 29.6  
265 21.4 17.5 26.3



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

