

Data Path : Z:\HPCHEM1\BNA F\DATA\BF031317\  
 Data File : BF093658.D  
 Acq On : 14 Mar 2017 14:59  
 Operator : SJ/MA  
 Sample : I2224-02  
 Misc :  
 ALS Vial : 53 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :

Quant Time: Mar 15 02:33:52 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF030717.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Mar 13 15:05:08 2017  
 Response via : Initial Calibration

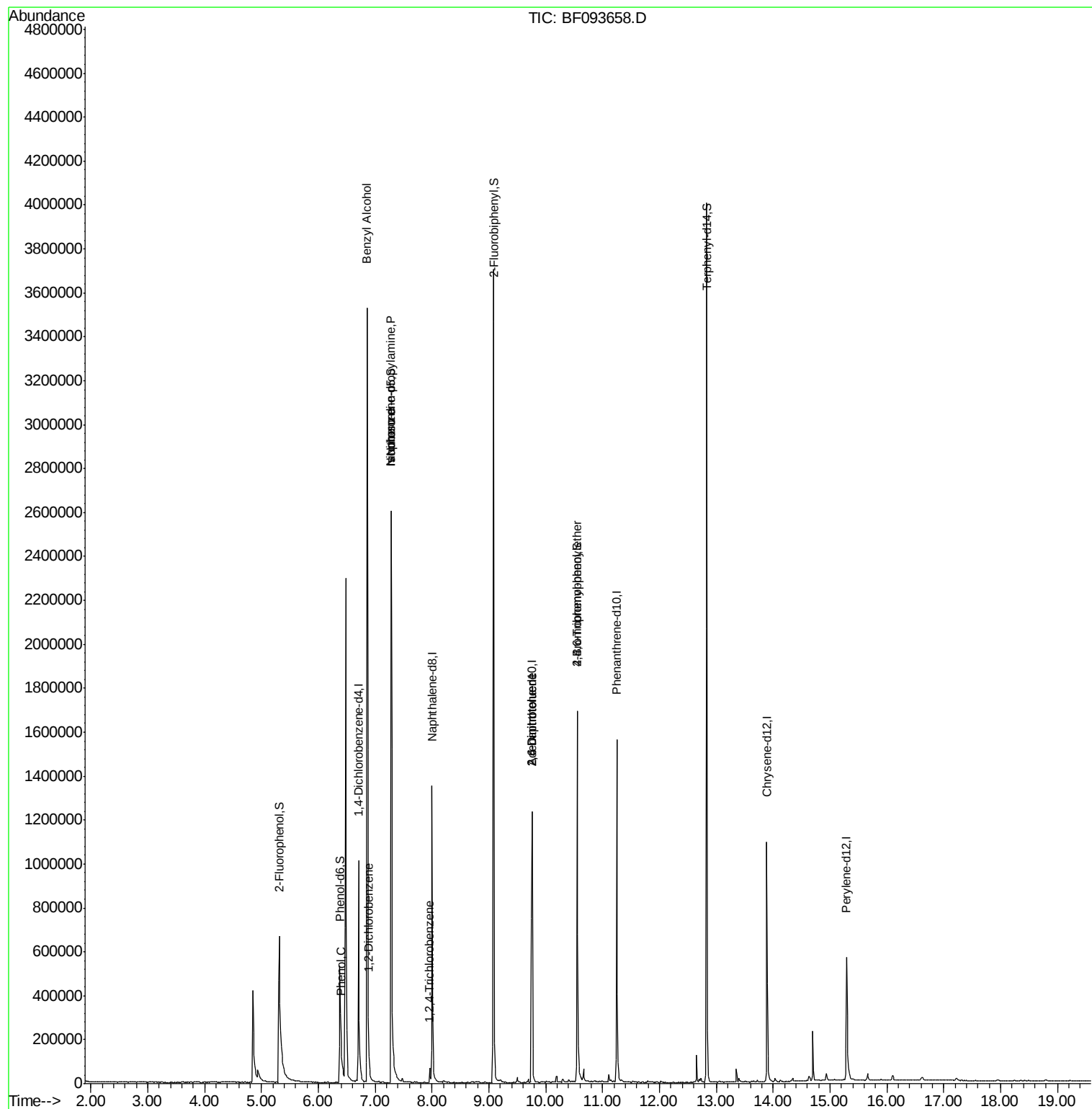
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.71  | 152  | 163401   | 20.00     | ng     | -0.01    |
| 21) Naphthalene-d8             | 8.00  | 136  | 659397   | 20.00     | ng     | -0.01    |
| 38) Acenaphthene-d10           | 9.76  | 164  | 307099   | 20.00     | ng     | 0.00     |
| 63) Phenanthrene-d10           | 11.25 | 188  | 596452   | 20.00     | ng     | 0.00     |
| 75) Chrysene-d12               | 13.89 | 240  | 455264   | 20.00     | ng     | 0.00     |
| 86) Perylene-d12               | 15.29 | 264  | 296100   | 20.00     | ng     | 0.01     |
| System Monitoring Compounds    |       |      |          |           |        |          |
| 5) 2-Fluorophenol              | 5.32  | 112  | 455111   | 46.36     | ng     | 0.00     |
| 7) Phenol-d6                   | 6.38  | 99   | 358915   | 28.99     | ng     | 0.00     |
| 23) Nitrobenzene-d5            | 7.28  | 82   | 1159638  | 97.58     | ng     | -0.02    |
| 41) 2,4,6-Tribromophenol       | 10.55 | 330  | 193140   | 96.53     | ng     | 0.00     |
| 44) 2-Fluorobiphenyl           | 9.09  | 172  | 1780348  | 107.83    | ng     | 0.00     |
| 78) Terphenyl-d14              | 12.84 | 244  | 1369956  | 78.24     | ng     | 0.01     |
| Target Compounds               |       |      |          |           |        |          |
| 9) Benzaldehyde                | 6.38  | 77   | 591      | Below Cal | Qvalue | # 1      |
| 10) Phenol                     | 6.40  | 94   | 36086    | 2.38      | ng     | 95       |
| 14) 1,2-Dichlorobenzene        | 6.88  | 146  | 25925    | 2.27      | ng     | 99       |
| 15) Benzyl Alcohol             | 6.86  | 79   | 18589    | 2.11      | ng     | # 43     |
| 19) n-Nitroso-di-n-propylamine | 7.28  | 70   | 153345   | 18.02     | ng     | # 86     |
| 25) Isophorone                 | 7.28  | 82   | 1150746  | 48.02     | ng     | # 65     |
| 30) 1,2,4-Trichlorobenzene     | 7.96  | 180  | 20109    | 2.03      | ng     | # 91     |
| 50) 2,6-Dinitrotoluene         | 9.76  | 165  | 39032    | 8.74      | ng     | # 32     |
| 56) 2,4-Dinitrotoluene         | 9.76  | 165  | 39034    | 7.11      | ng     | # 20     |
| 66) 4-Bromophenyl-phenylether  | 10.55 | 248  | 15367    | 2.44      | ng     | # 1      |

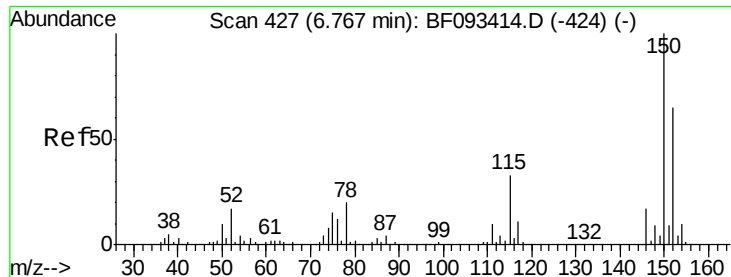
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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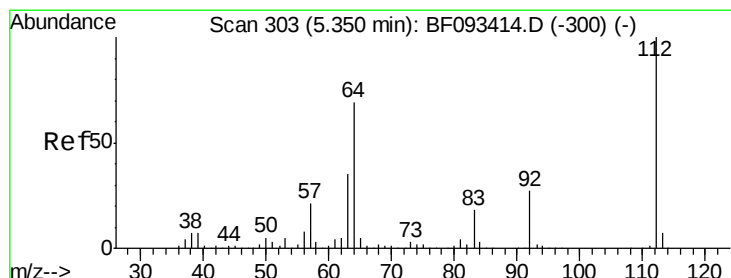
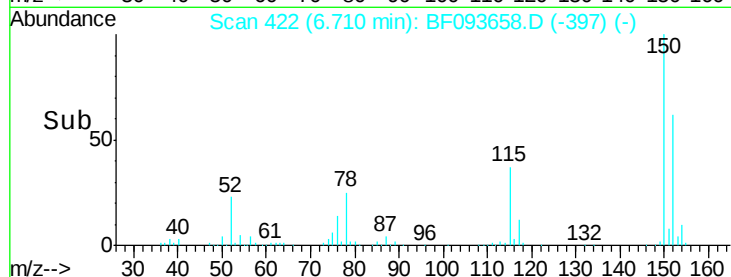
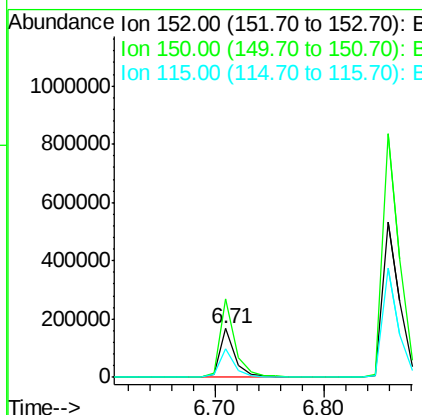
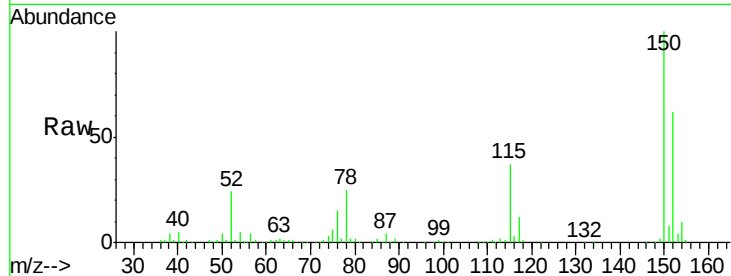


#1

1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.71 min Scan# 422  
Delta R.T. -0.01 min  
Lab File: BF093658.D  
Acq: 14 Mar 2017 14:59

Instrument :  
BNA\_M  
ClientSampled :

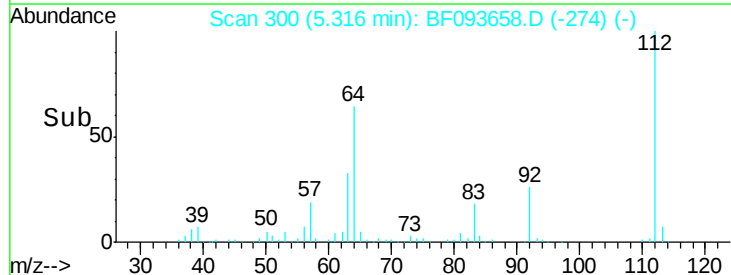
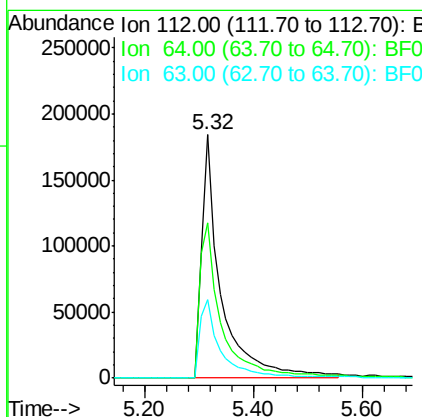
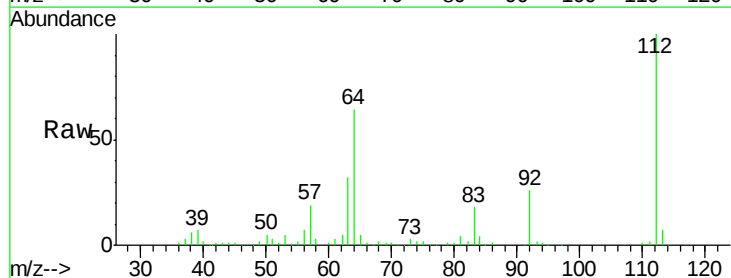
Tot Ion:152 Resp: 163401  
Ion Ratio Lower Upper  
152 100  
150 162.1 124.9 187.3  
115 59.7 46.0 69.0

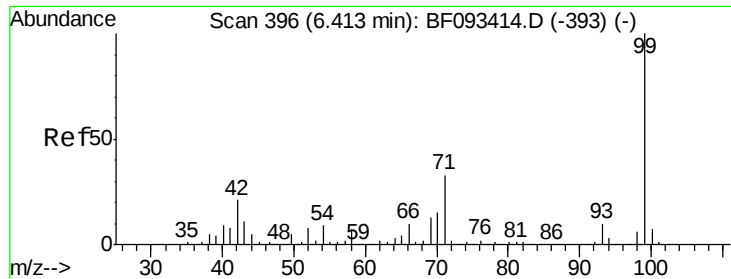


#5

2-Fluorophenol  
Concen: 46.36 ng  
RT: 5.32 min Scan# 300  
Delta R.T. -0.00 min  
Lab File: BF093658.D  
Acq: 14 Mar 2017 14:59

Tgt Ion:112 Resp: 455111  
Ion Ratio Lower Upper  
112 100  
64 64.0 46.1 69.1  
63 32.5 23.8 35.6





#7

Phenol-d6

Concen: 28.99 ng

RT: 6.38 min Scan# 393

Delta R.T. -0.00 min

Lab File: BF093658.D

Acq: 14 Mar 2017 14:59

Instrument :

BNA\_M

ClientSampled :

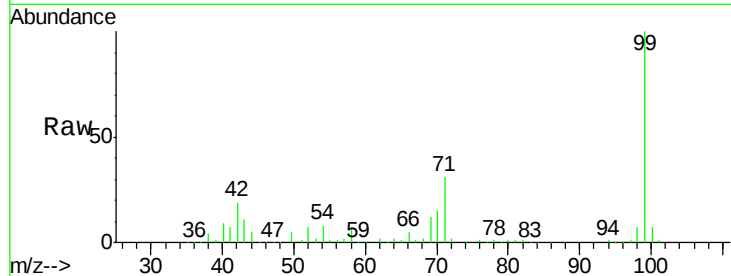
Tot Ion: 99 Resp: 358915

Ion Ratio Lower Upper

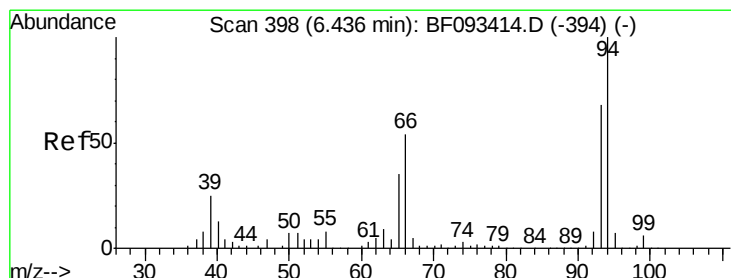
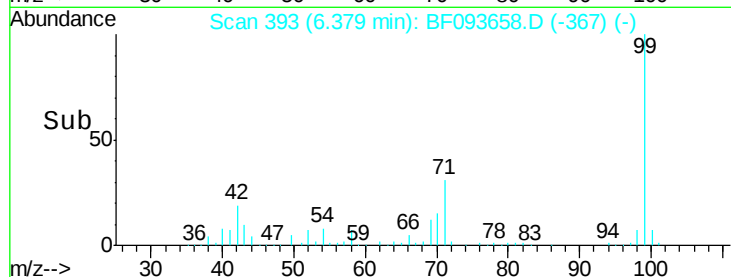
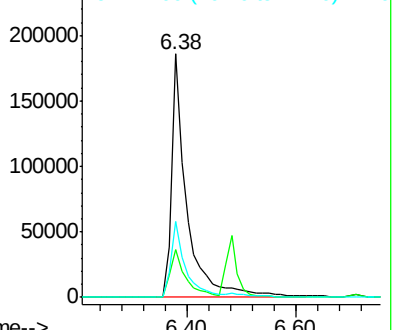
99 100

42 19.4 15.6 23.4

71 31.1 27.5 41.3



Abundance Ion 99.00 (98.70 to 99.70): BF0  
Ion 42.00 (41.70 to 42.70): BF0  
Ion 71.00 (70.70 to 71.70): BF0



#10

Phenol

Concen: 2.38 ng

RT: 6.40 min Scan# 395

Delta R.T. -0.00 min

Lab File: BF093658.D

Acq: 14 Mar 2017 14:59

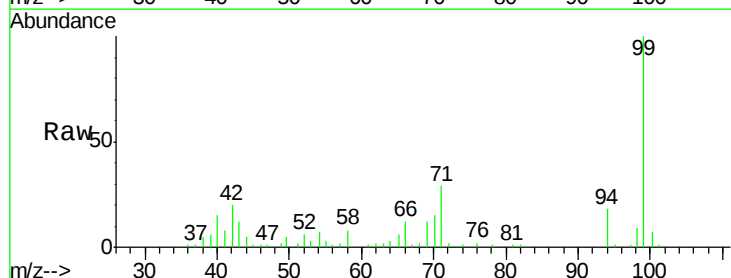
Tgt Ion: 94 Resp: 36086

Ion Ratio Lower Upper

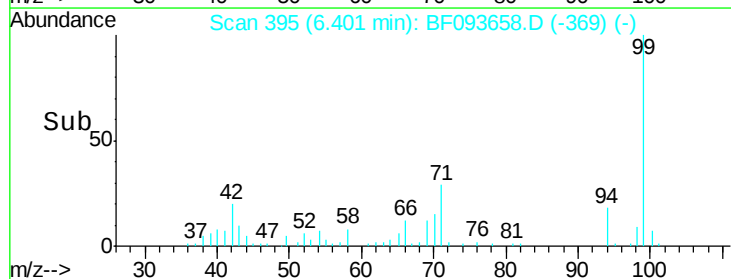
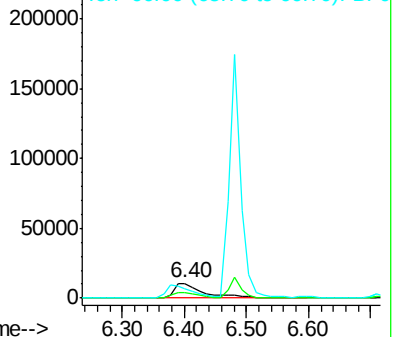
94 100

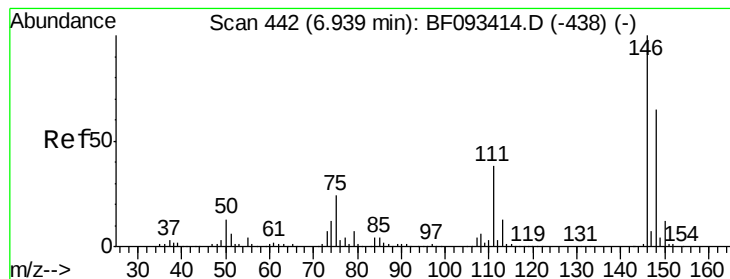
65 34.3 21.4 61.4

66 64.6 44.0 84.0



Abundance Ion 94.00 (93.70 to 94.70): BF0  
Ion 65.00 (64.70 to 65.70): BF0  
Ion 66.00 (65.70 to 66.70): BF0

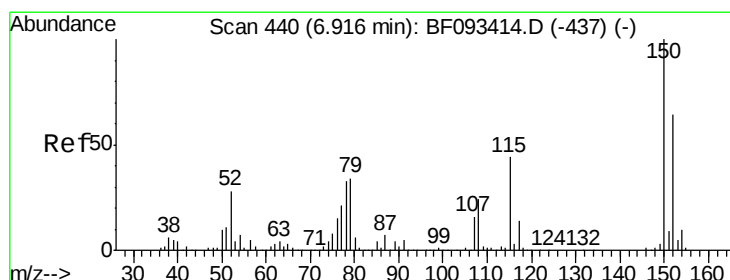
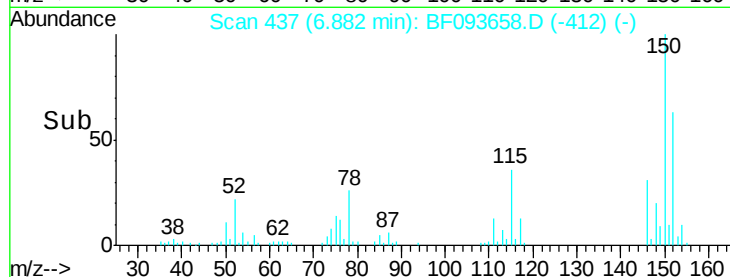
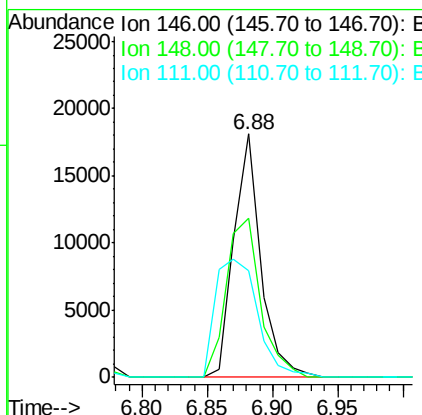
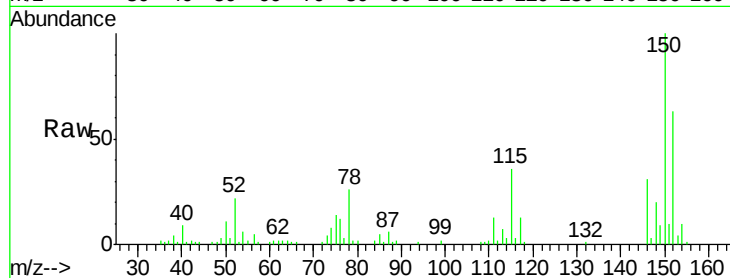




#14  
 1,2-Dichlorobenzene  
 Concen: 2.27 ng  
 RT: 6.88 min Scan# 437  
 Delta R.T. -0.01 min  
 Lab File: BF093658.D  
 Acq: 14 Mar 2017 14:59

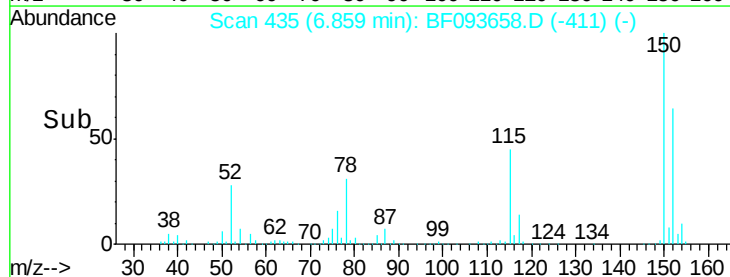
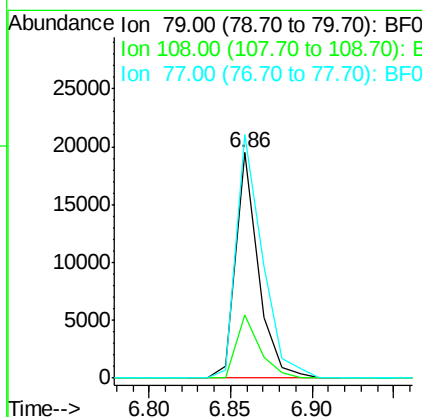
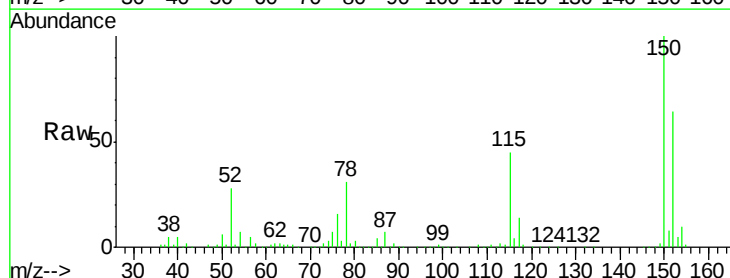
Instrument :  
 BNA\_M  
 ClientSampleId :

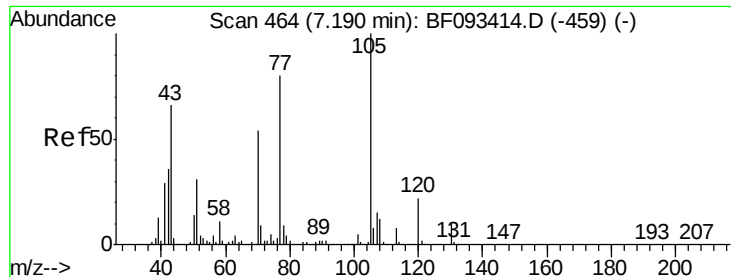
Tot Ion:146 Resp: 25925  
 Ion Ratio Lower Upper  
 146 100  
 148 65.3 52.2 78.2  
 111 43.6 36.2 54.2



#15  
 Benzyl Alcohol  
 Concen: 2.11 ng  
 RT: 6.86 min Scan# 435  
 Delta R.T. -0.02 min  
 Lab File: BF093658.D  
 Acq: 14 Mar 2017 14:59

Tgt Ion: 79 Resp: 18589  
 Ion Ratio Lower Upper  
 79 100  
 108 28.1 61.4 92.0#  
 77 108.1 50.9 76.3#

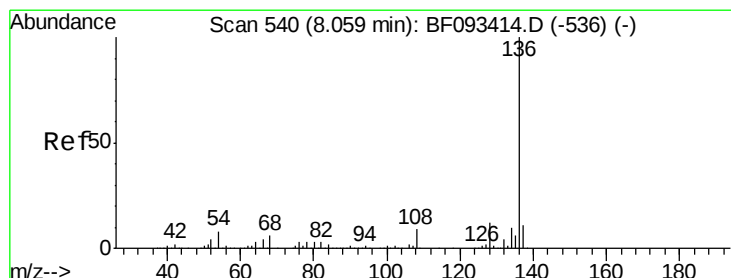
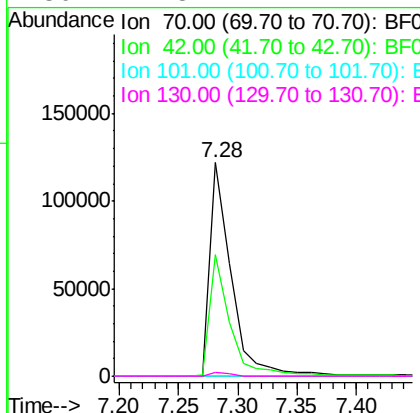
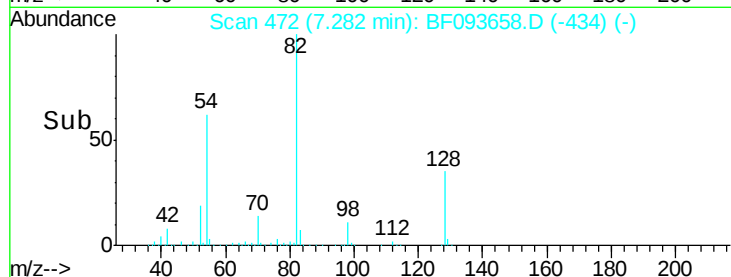
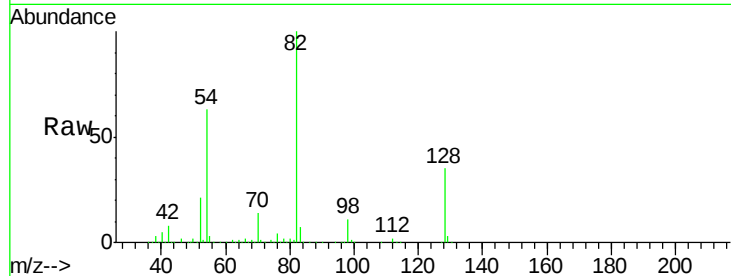




#19  
n-Nitroso-di-n-propylamine  
Concen: 18.02 ng  
RT: 7.28 min Scan# 472  
Delta R.T. 0.14 min  
Lab File: BF093658.D  
Acq: 14 Mar 2017 14:59

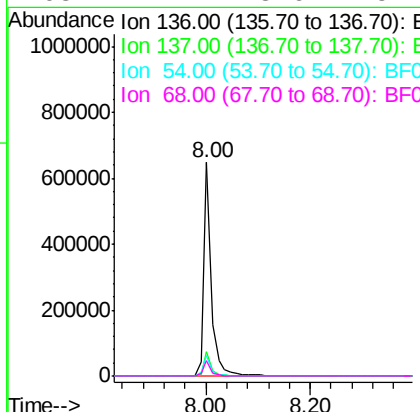
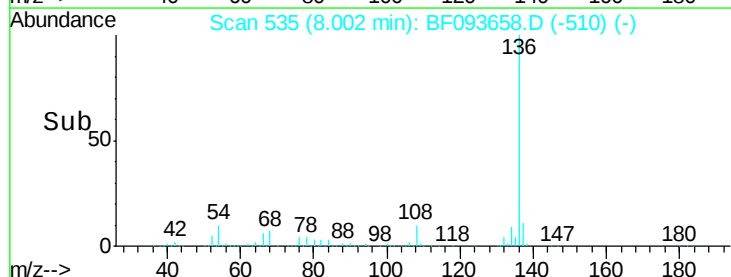
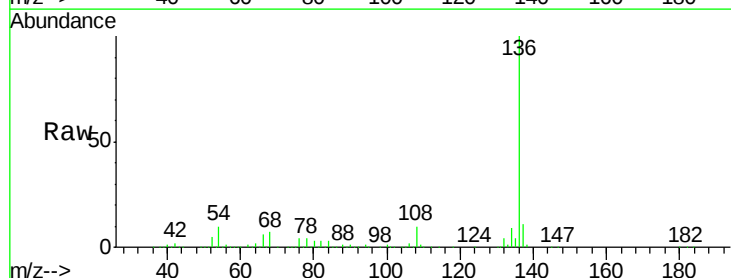
Instrument :  
BNA\_M  
ClientSampleId :

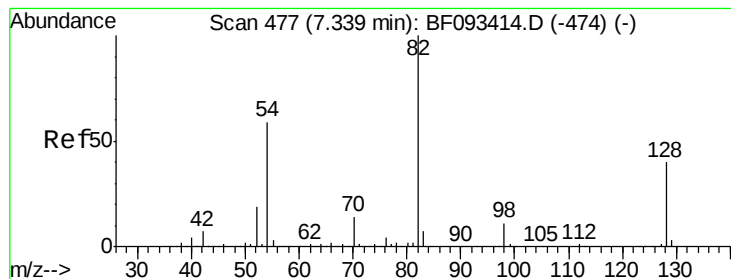
Tot Ion: 70 Resp: 153345  
Ion Ratio Lower Upper  
70 100  
42 56.8 49.4 74.0  
101 0.0 7.4 11.2#  
130 1.8 14.2 21.4#



#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.00 min Scan# 535  
Delta R.T. -0.01 min  
Lab File: BF093658.D  
Acq: 14 Mar 2017 14:59

Tgt Ion: 136 Resp: 659397  
Ion Ratio Lower Upper  
136 100  
137 11.2 8.4 12.6  
54 9.8 4.5 6.7#  
68 7.1 3.6 5.4#





#23

Nitrobenzene-d5

Concen: 97.58 ng

RT: 7.28 min Scan# 472

Delta R.T. -0.02 min

Lab File: BF093658.D

Acq: 14 Mar 2017 14:59

Instrument :

BNA\_M

ClientSampled :

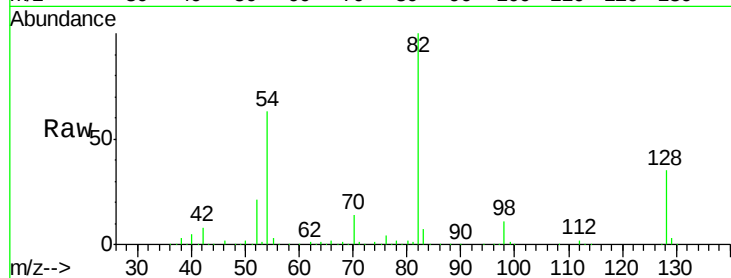
Tot Ion: 82 Resp: 1159638

Ion Ratio Lower Upper

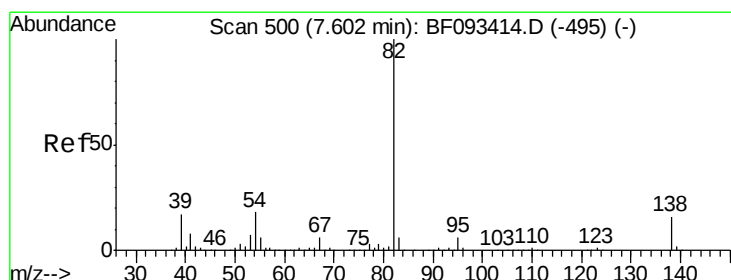
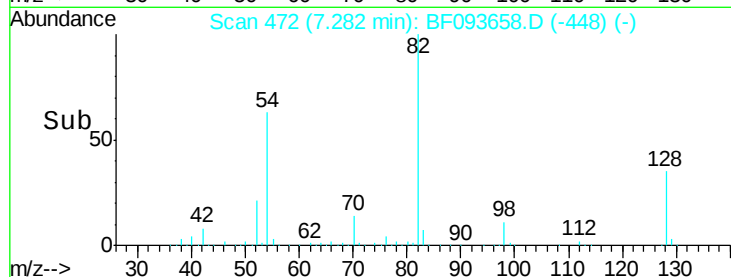
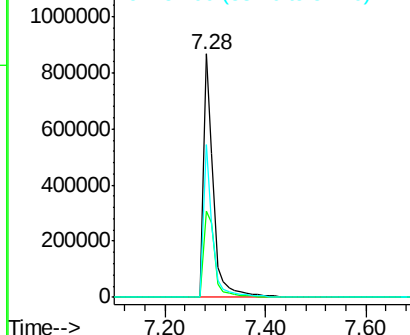
82 100

128 35.5 34.6 52.0

54 62.7 39.5 59.3#



Abundance Ion 82.00 (81.70 to 82.70): BF0  
Ion 128.00 (127.70 to 128.70): BF0  
Ion 54.00 (53.70 to 54.70): BF0



#25

Isophorone

Concen: 48.02 ng

RT: 7.28 min Scan# 472

Delta R.T. -0.27 min

Lab File: BF093658.D

Acq: 14 Mar 2017 14:59

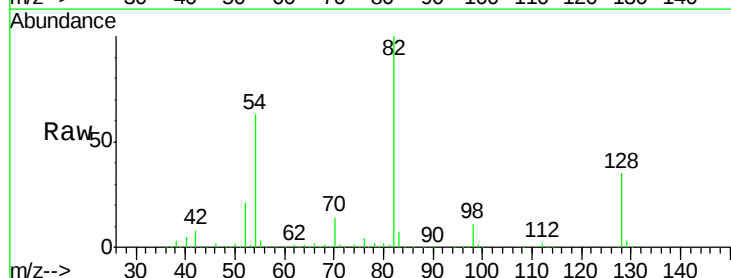
Tgt Ion: 82 Resp: 1150746

Ion Ratio Lower Upper

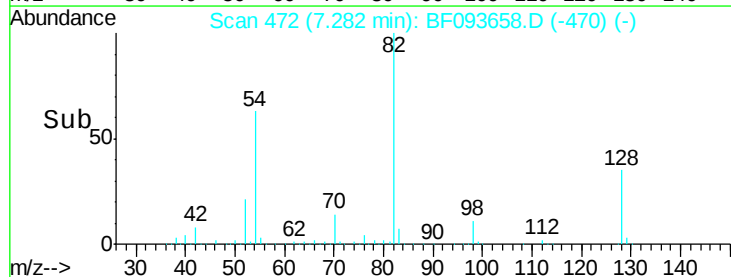
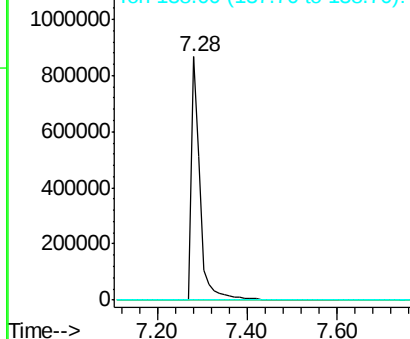
82 100

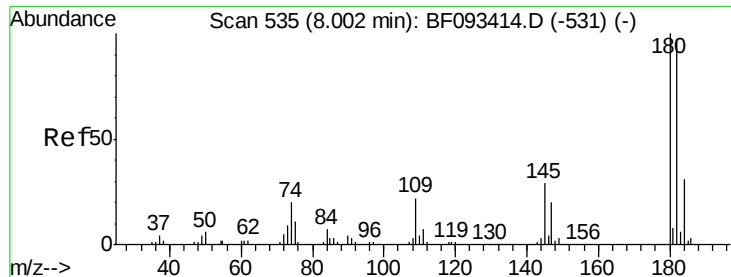
95 0.0 5.6 8.4#

138 0.0 14.6 22.0#



Abundance Ion 82.00 (81.70 to 82.70): BF0  
Ion 95.00 (94.70 to 95.70): BF0  
Ion 138.00 (137.70 to 138.70): BF0

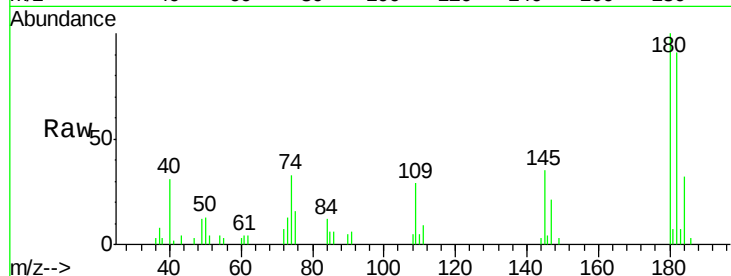




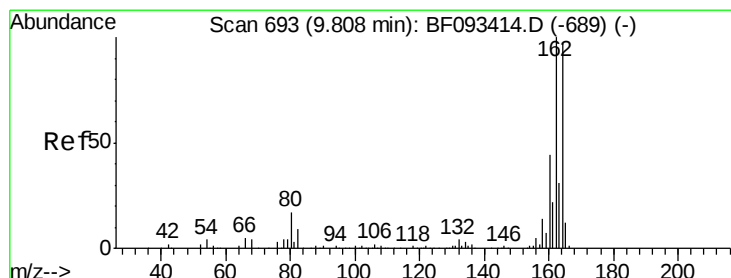
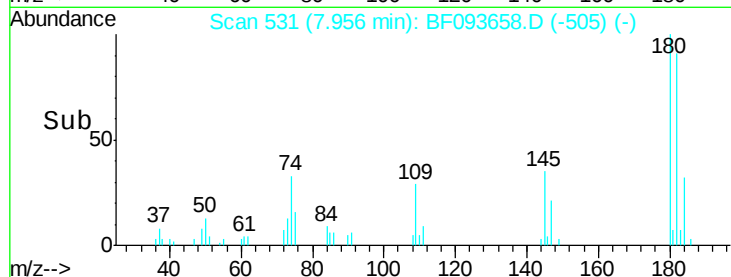
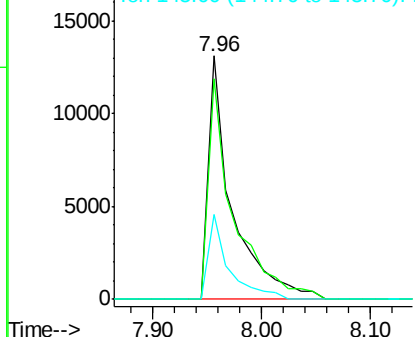
#30  
 1,2,4-Trichlorobenzene  
 Concen: 2.03 ng  
 RT: 7.96 min Scan# 531  
 Delta R.T. -0.00 min  
 Lab File: BF093658.D  
 Acq: 14 Mar 2017 14:59

Instrument :  
 BNA\_M  
 ClientSampleId :

Tot Ion:180 Resp: 20109  
 Ion Ratio Lower Upper  
 180 100  
 182 90.7 78.2 117.4  
 145 35.1 21.6 32.4#

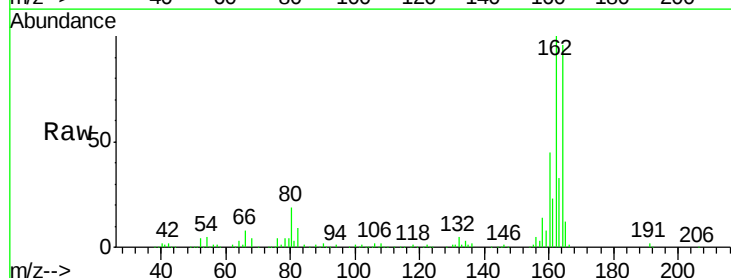


Abundance Ion 180.00 (179.70 to 180.70): E  
 Ion 182.00 (181.70 to 182.70): E  
 Ion 145.00 (144.70 to 145.70): E

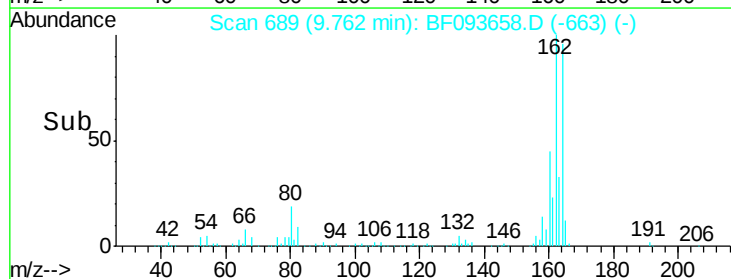
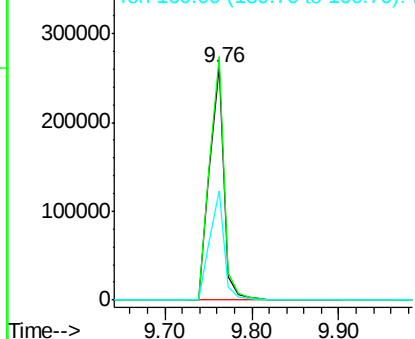


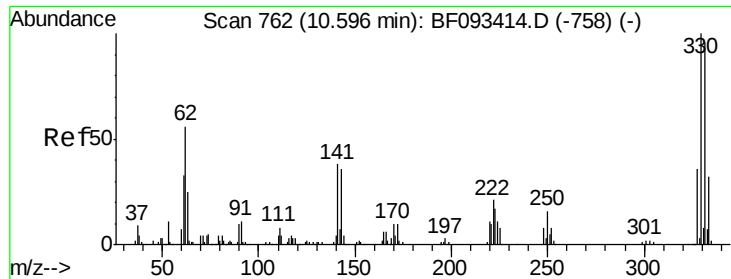
#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.76 min Scan# 689  
 Delta R.T. -0.00 min  
 Lab File: BF093658.D  
 Acq: 14 Mar 2017 14:59

Tgt Ion:164 Resp: 307099  
 Ion Ratio Lower Upper  
 164 100  
 162 104.5 80.2 120.2  
 160 46.7 36.9 55.3



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

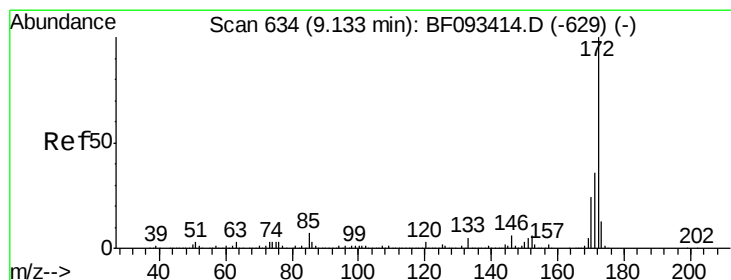
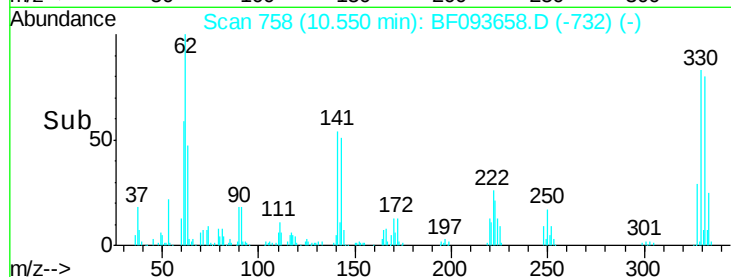
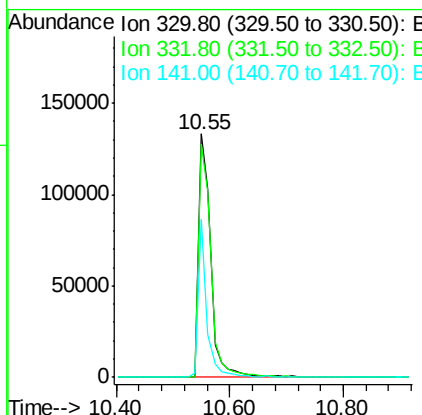
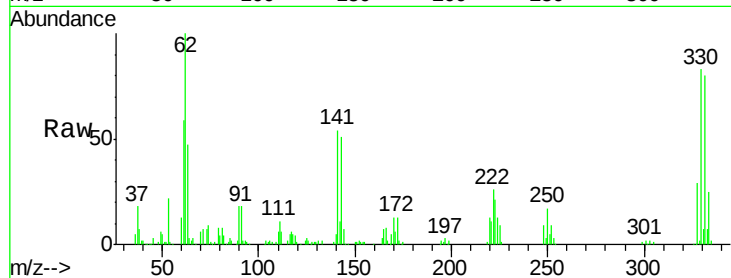




#41  
 2,4,6-Tribromophenol  
 Concen: 96.53 ng  
 RT: 10.55 min Scan# 758  
 Delta R.T. -0.00 min  
 Lab File: BF093658.D  
 Acq: 14 Mar 2017 14:59

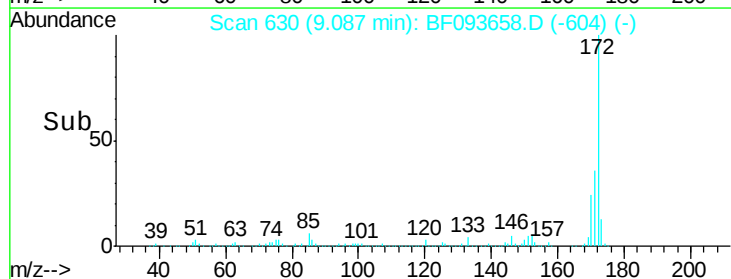
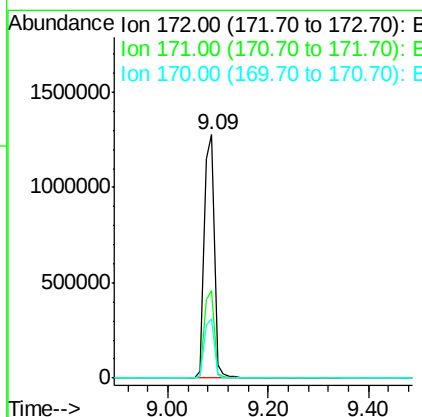
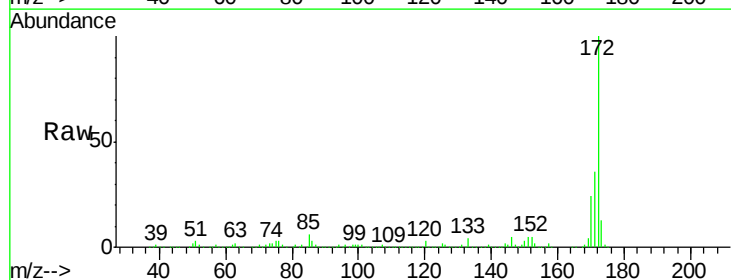
Instrument :  
 BNA\_M  
 ClientSampleId :

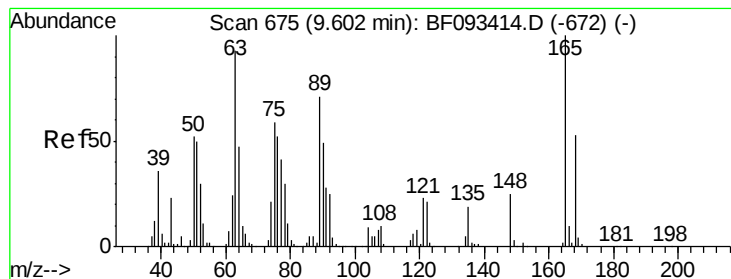
Tot Ion:330 Resp: 193140  
 Ion Ratio Lower Upper  
 330 100  
 332 97.5 77.4 116.2  
 141 46.3 34.1 51.1



#44  
 2-Fluorobiphenyl  
 Concen: 107.83 ng  
 RT: 9.09 min Scan# 630  
 Delta R.T. -0.00 min  
 Lab File: BF093658.D  
 Acq: 14 Mar 2017 14:59

Tgt Ion:172 Resp: 1780348  
 Ion Ratio Lower Upper  
 172 100  
 171 36.0 29.4 44.0  
 170 24.4 20.2 30.4





#50

2,6-Dinitrotoluene

Concen: 8.74 ng

RT: 9.76 min Scan# 689

Delta R.T. 0.19 min

Lab File: BF093658.D

Acq: 14 Mar 2017 14:59

Instrument :

BNA\_M

ClientSampleId :

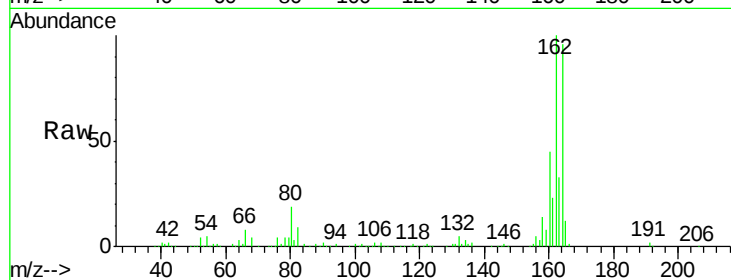
Tot Ion:165 Resp: 39032

Ion Ratio Lower Upper

165 100

63 2.3 36.2 54.4#

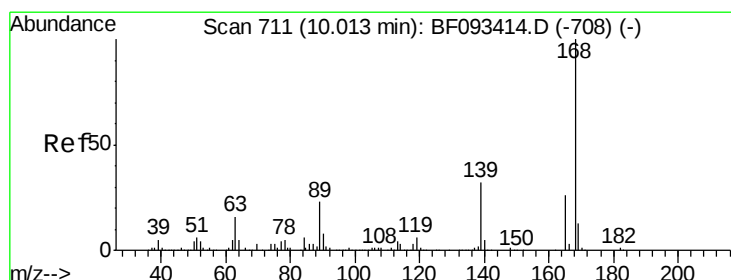
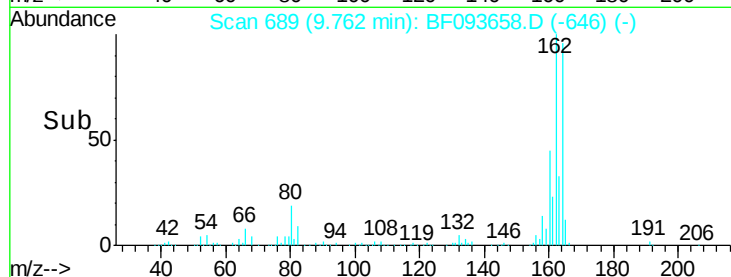
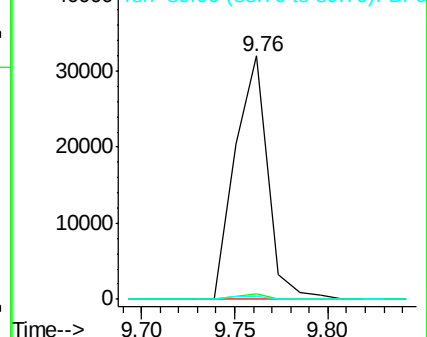
89 1.2 40.2 60.4#



Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0



#56

2,4-Dinitrotoluene

Concen: 7.11 ng

RT: 9.76 min Scan# 689

Delta R.T. -0.22 min

Lab File: BF093658.D

Acq: 14 Mar 2017 14:59

Tgt Ion:165 Resp: 39034

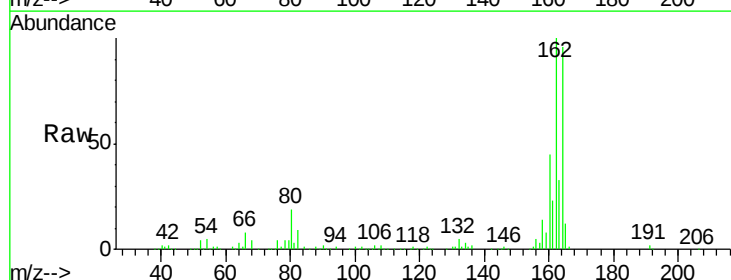
Ion Ratio Lower Upper

165 100

63 2.3 40.2 60.4#

89 1.2 62.5 93.7#

182 0.0 1.8 2.8#

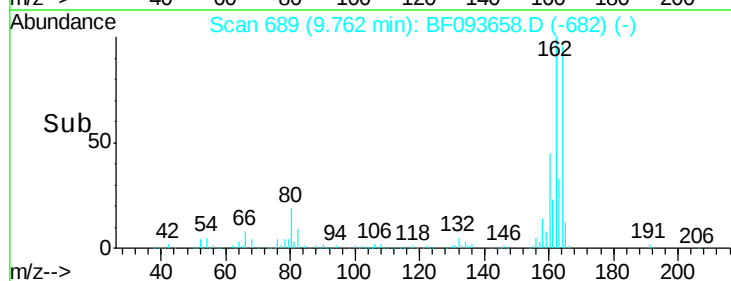
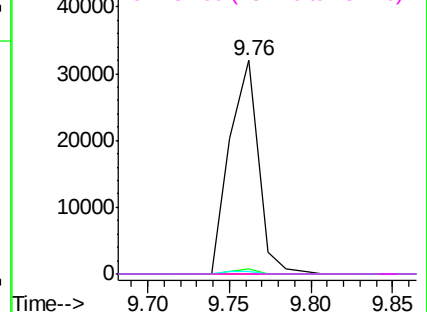


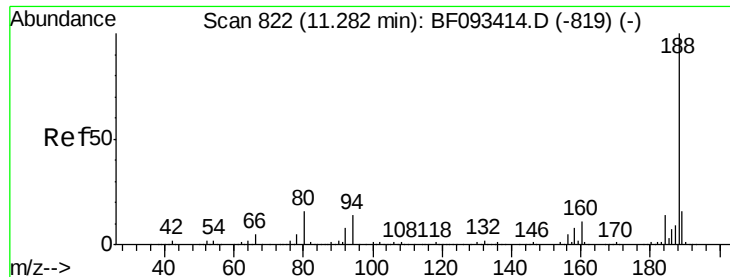
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E

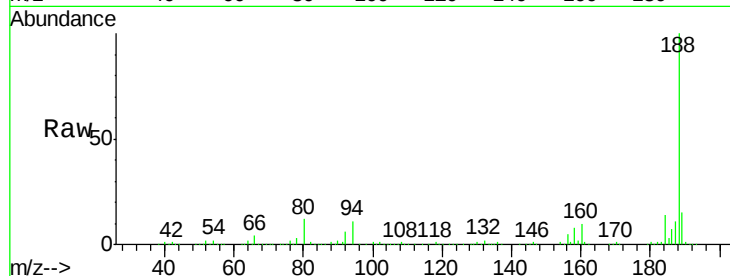




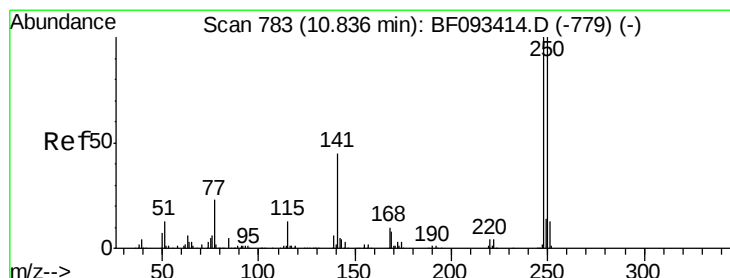
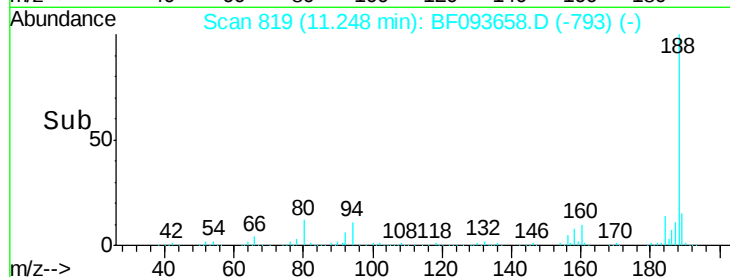
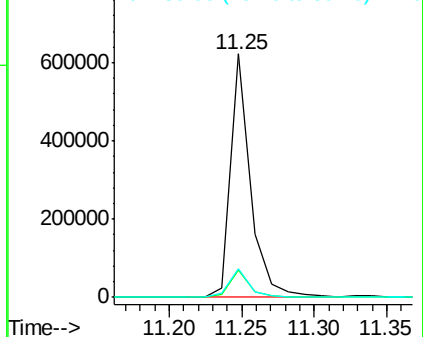
#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 11.25 min Scan# 819  
 Delta R.T. -0.00 min  
 Lab File: BF093658.D  
 Acq: 14 Mar 2017 14:59

Instrument :  
 BNA\_M  
 ClientSampled :

Tot Ion:188 Resp: 596452  
 Ion Ratio Lower Upper  
 188 100  
 94 11.2 10.0 15.0  
 80 11.8 11.2 16.8

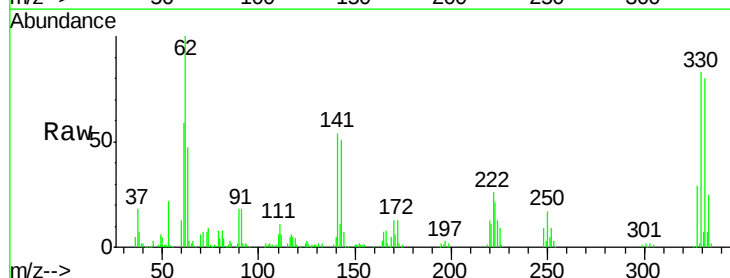


Abundance Ion 188.00 (187.70 to 188.70): E  
 Ion 94.00 (93.70 to 94.70): BF0  
 Ion 80.00 (79.70 to 80.70): BF0

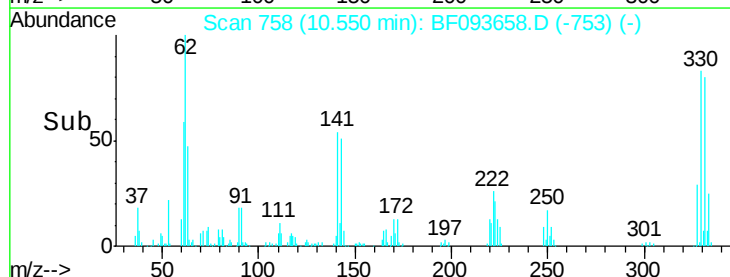
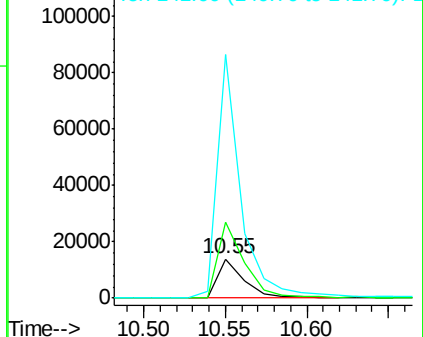


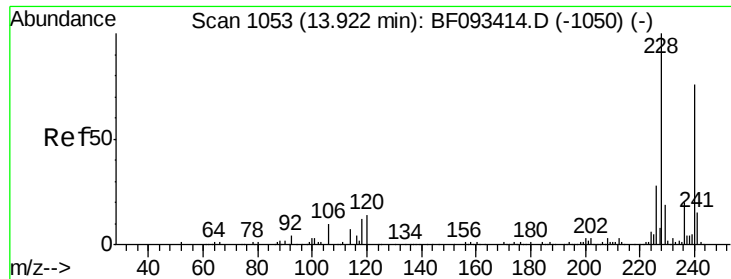
#66  
 4-Bromophenyl-phenylether  
 Concen: 2.44 ng  
 RT: 10.55 min Scan# 758  
 Delta R.T. -0.24 min  
 Lab File: BF093658.D  
 Acq: 14 Mar 2017 14:59

Tgt Ion:248 Resp: 15367  
 Ion Ratio Lower Upper  
 248 100  
 250 192.2 76.9 115.3#  
 141 619.6 68.2 102.4#



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





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.89 min Scan# 1050

Delta R.T. -0.00 min

Lab File: BF093658.D

Acq: 14 Mar 2017 14:59

Instrument :

BNA\_M

ClientSampleId :

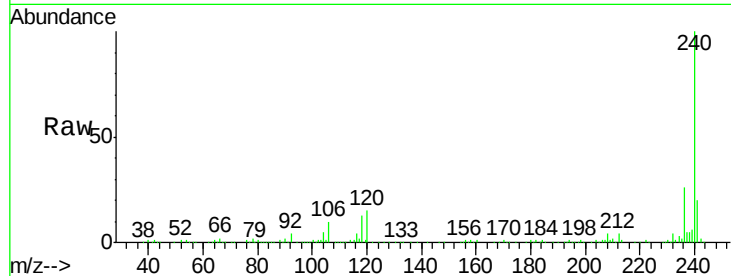
Tot Ion:240 Resp: 455264

Ion Ratio Lower Upper

240 100

120 15.1 12.9 19.3

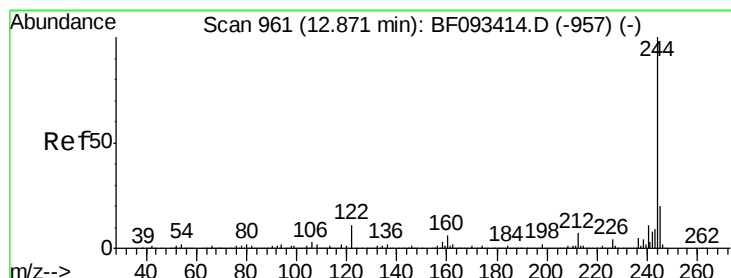
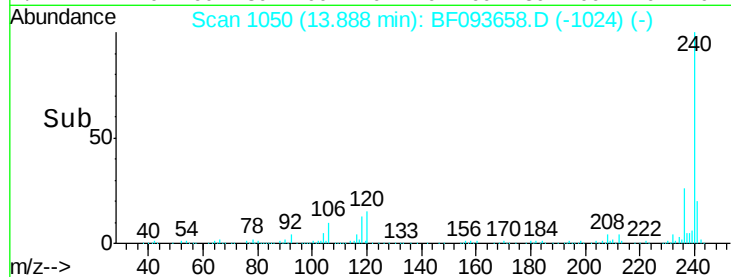
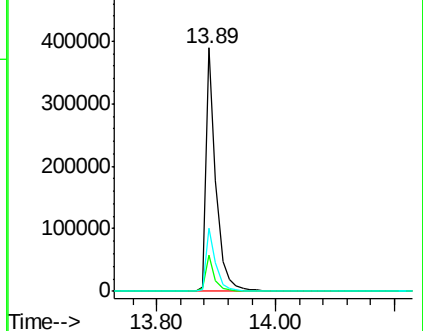
236 25.7 20.9 31.3



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



#78

Terphenyl-d14

Concen: 78.24 ng

RT: 12.84 min Scan# 958

Delta R.T. 0.01 min

Lab File: BF093658.D

Acq: 14 Mar 2017 14:59

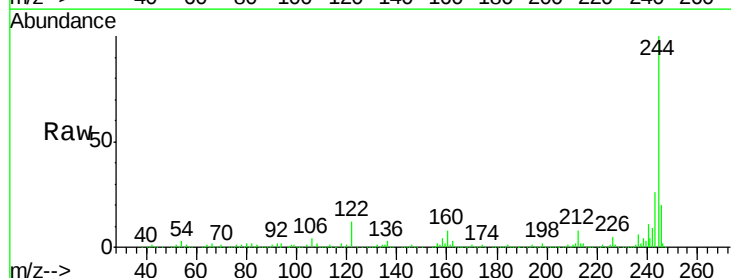
Tgt Ion:244 Resp: 1369956

Ion Ratio Lower Upper

244 100

212 7.8 6.2 9.2

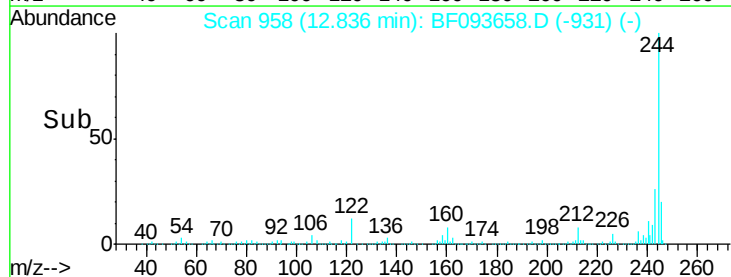
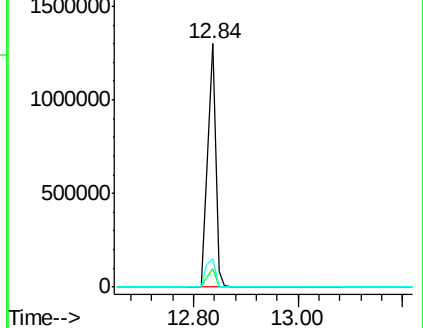
122 11.6 11.4 17.2

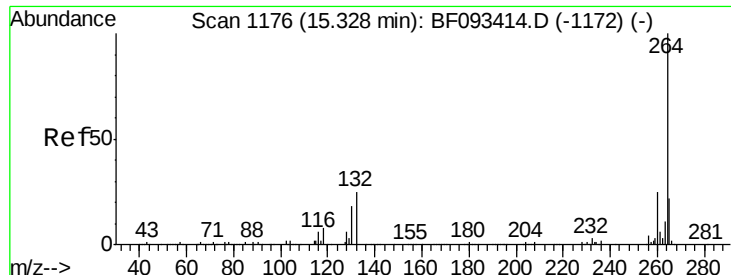


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

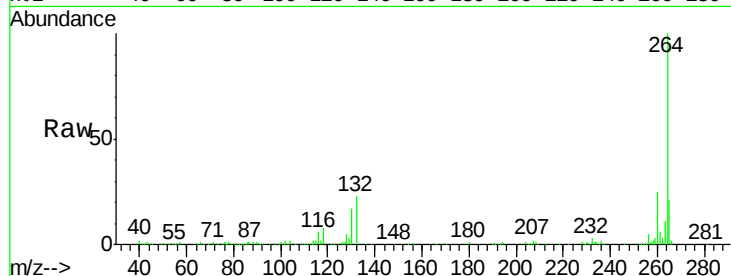




#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 15.29 min Scan# 1173  
Delta R.T. 0.01 min  
Lab File: BF093658.D  
Acq: 14 Mar 2017 14:59

Instrument :  
BNA\_M  
ClientSampleId :

| Tot Ion | Ion | Ratio | Lower | Upper |
|---------|-----|-------|-------|-------|
| 296100  | 264 | 100   |       |       |
|         | 260 | 24.6  | 19.2  | 28.8  |
|         | 265 | 21.4  | 17.4  | 26.0  |



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

