

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF111317\  
 Data File : BF100531.D  
 Acq On : 14 Nov 2017 8:06  
 Operator : SJ/JU  
 Sample : I6307-02  
 Misc :  
 ALS Vial : 34 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Nov 14 10:28:23 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF110817.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Nov 14 02:37:14 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.89  | 152  | 123029   | 20.00 | ng    | -0.01    |
| 21) Naphthalene-d8        | 8.17  | 136  | 461116   | 20.00 | ng    | -0.02    |
| 38) Acenaphthene-d10      | 9.93  | 164  | 180657   | 20.00 | ng    | -0.01    |
| 63) Phenanthrene-d10      | 11.41 | 188  | 272746   | 20.00 | ng    | -0.01    |
| 75) Chrysene-d12          | 14.05 | 240  | 253665   | 20.00 | ng    | -0.02    |
| 86) Perylene-d12          | 15.53 | 264  | 202624   | 20.00 | ng    | -0.02    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.53  | 112  | 984788   | 128.31 | ng    | 0.02     |
| 7) Phenol-d6                | 6.52  | 99   | 1097317  | 115.94 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.46  | 82   | 808055   | 115.86 | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol    | 10.72 | 330  | 240366   | 130.57 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl        | 9.25  | 172  | 1377654  | 116.12 | ng    | -0.01    |
| 78) Terphenyl-d14           | 13.00 | 244  | 1010071  | 91.49  | ng    | -0.01    |

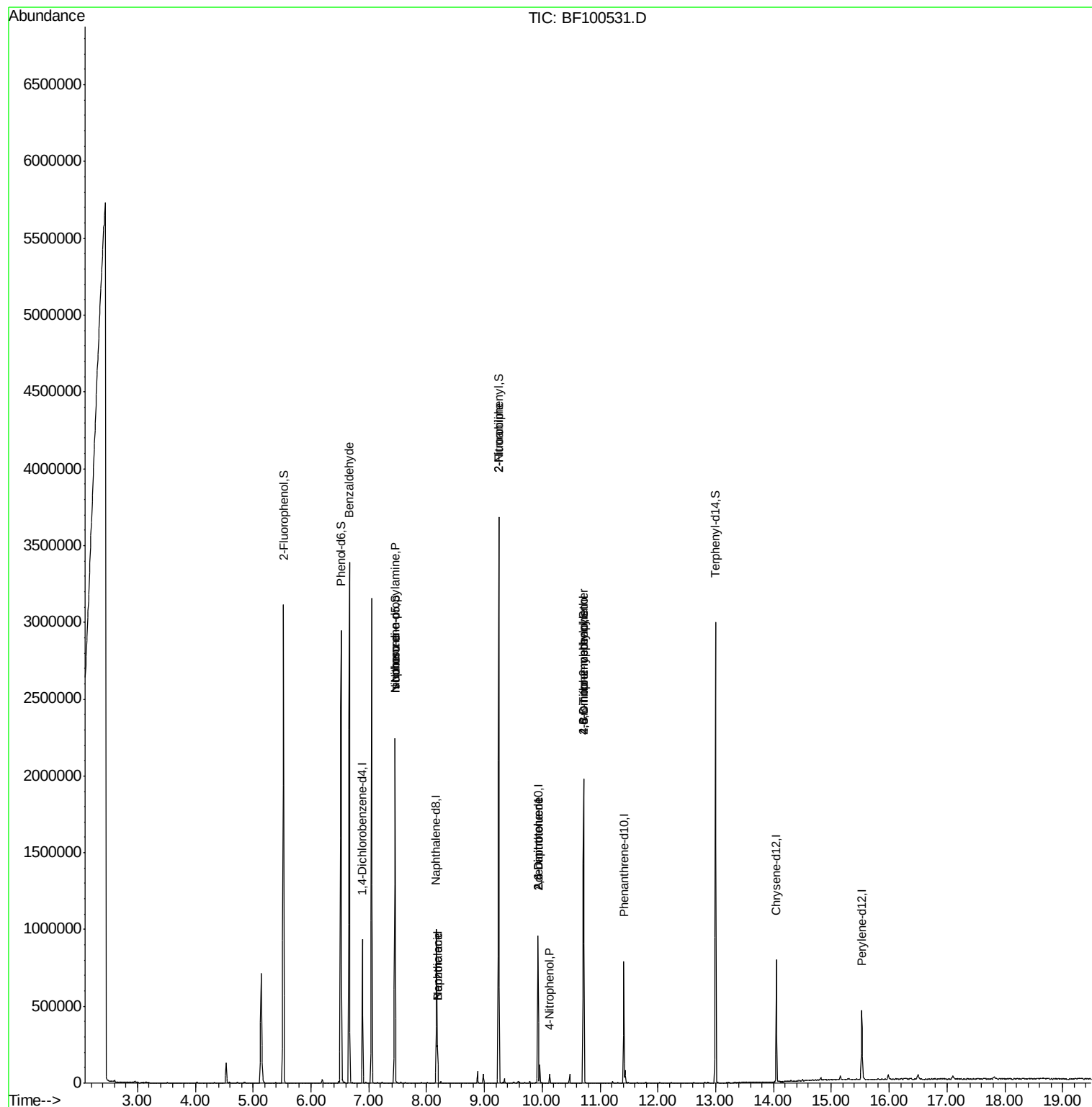
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 9) Benzaldehyde                | 6.66  | 77   | 22036    | 3.260  | ng    | 82     |
| 19) n-Nitroso-di-n-propylamine | 7.46  | 70   | 107124   | 16.321 | ng    | # 81   |
| 25) Isophorone                 | 7.46  | 82   | 808033   | 55.131 | ng    | # 64   |
| 31) Naphthalene                | 8.19  | 128  | 94935    | 4.274  | ng    | 98     |
| 32) Benzoic acid               | 8.19  | 122  | 124      | 9.391  | ng    | # 1    |
| 47) 2-Nitroaniline             | 9.25  | 65   | 1967     | 3.337  | ng    | # 1    |
| 50) 2,6-Dinitrotoluene         | 9.93  | 165  | 23622    | 8.652  | ng    | # 24   |
| 55) 4-Nitrophenol              | 10.13 | 139  | 7579     | 2.895  | ng    | # 11   |
| 56) 2,4-Dinitrotoluene         | 9.93  | 165  | 23622    | 6.858  | ng    | # 22   |
| 64) 4,6-Dinitro-2-methylphenol | 10.72 | 198  | 349      | 8.778  | ng    | # 1    |
| 66) 4-Bromophenyl-phenylether  | 10.72 | 248  | 15385    | 5.262  | ng    | # 1    |

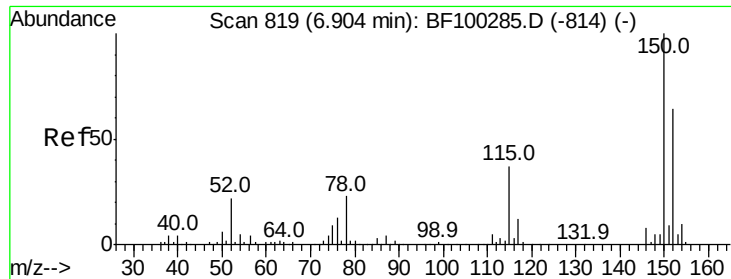
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF111317\  
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Misc :  
ALS Vial : 34 Sample Multiplier: 1

Instrument :  
BNA\_F  
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
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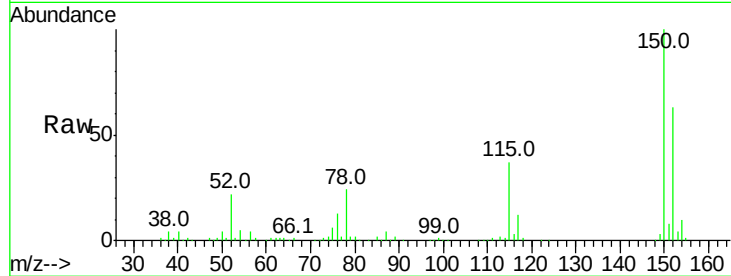


#1

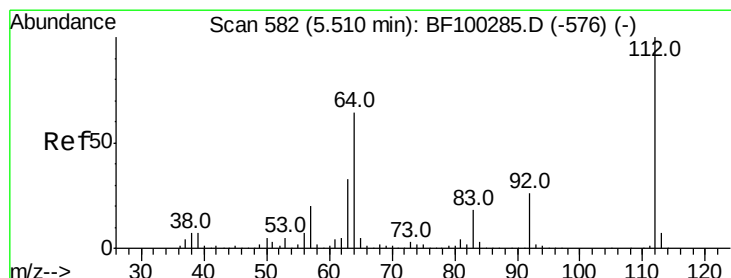
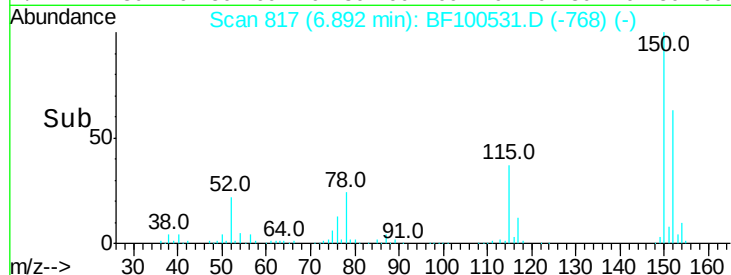
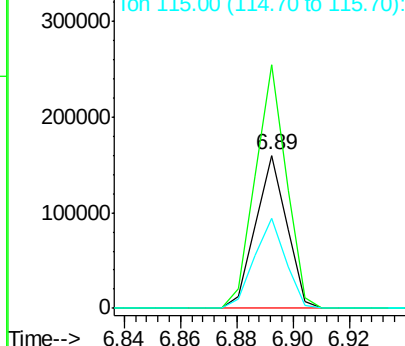
1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.89 min Scan# 817  
 Delta R.T. -0.01 min  
 Lab File: BF100531.D  
 Acq: 14 Nov 2017 8:06

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 159.2 | 124.6 | 186.8 |
| 115     | 58.8  | 50.1  | 75.1  |



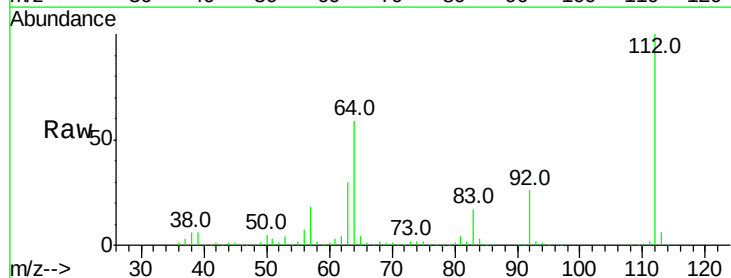
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



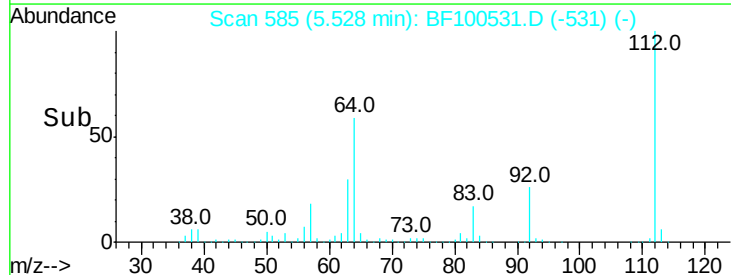
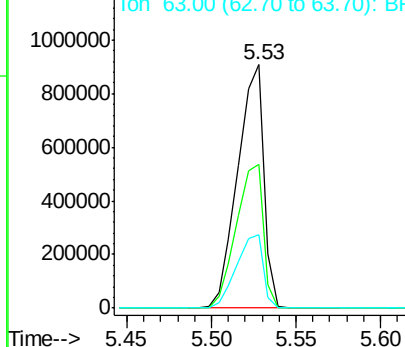
#5

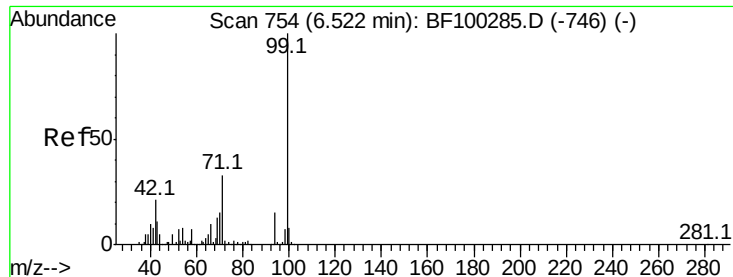
2-Fluorophenol  
 Concen: 128.311 ng  
 RT: 5.53 min Scan# 585  
 Delta R.T. 0.02 min  
 Lab File: BF100531.D  
 Acq: 14 Nov 2017 8:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 58.8  | 47.9  | 71.9  |
| 63      | 30.3  | 23.7  | 35.5  |



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: 115.943 ng

RT: 6.52 min Scan# 754

Delta R.T. -0.00 min

Lab File: BF100531.D

Acq: 14 Nov 2017 8:06

Instrument :

BNA\_F

ClientSampleId :

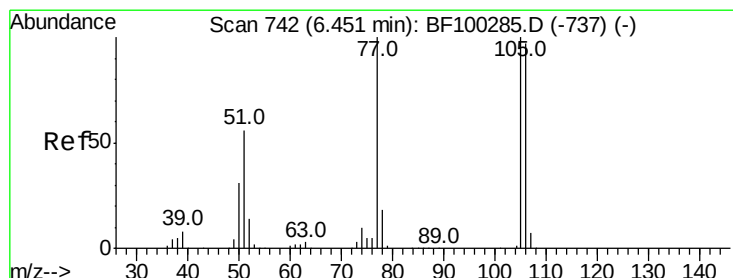
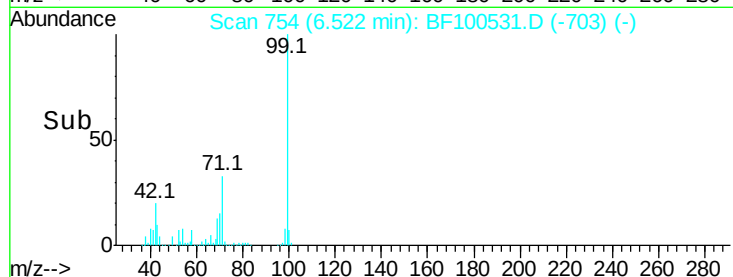
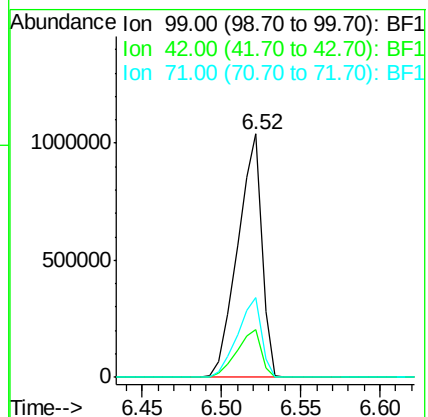
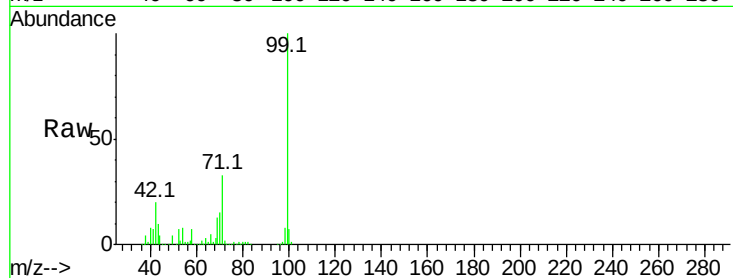
Tot Ion: 99 Resp: 1097317

Ion Ratio Lower Upper

99 100

42 19.8 14.5 21.7

71 32.5 25.4 38.0



#9

Benzaldehyde

Concen: 3.260 ng

RT: 6.66 min Scan# 778

Delta R.T. 0.21 min

Lab File: BF100531.D

Acq: 14 Nov 2017 8:06

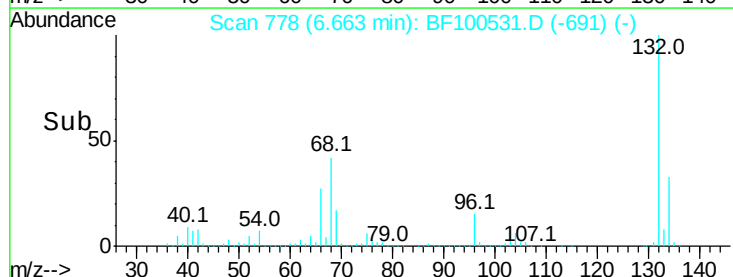
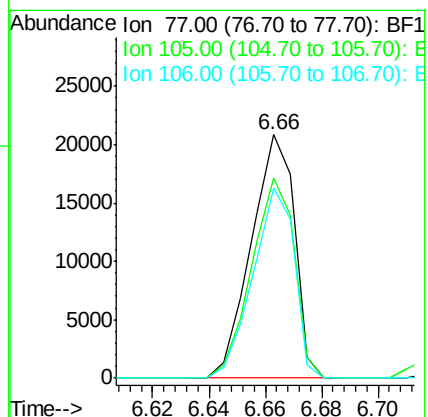
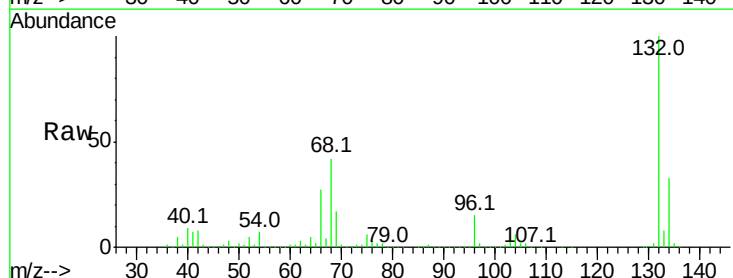
Tgt Ion: 77 Resp: 22036

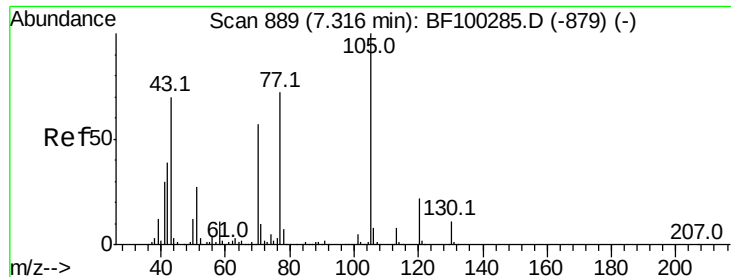
Ion Ratio Lower Upper

77 100

105 82.3 81.1 121.1

106 77.8 74.5 114.5

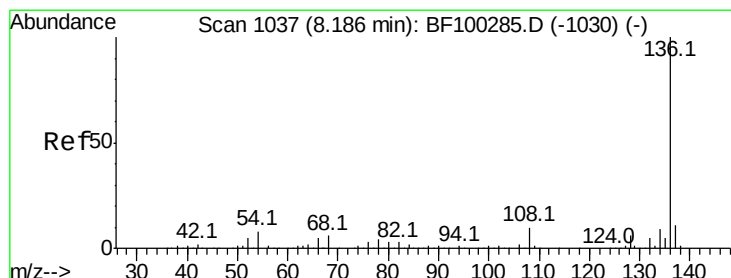
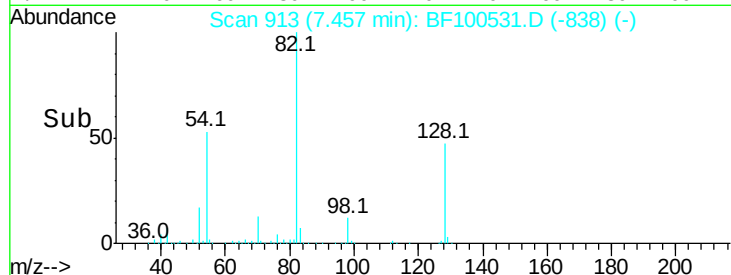
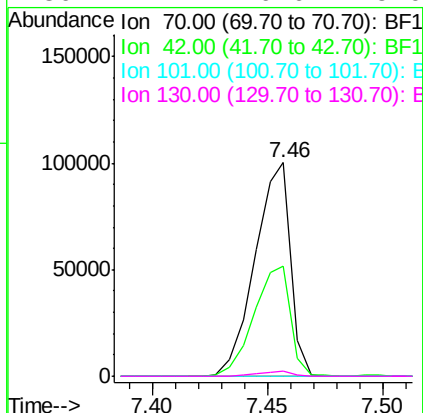
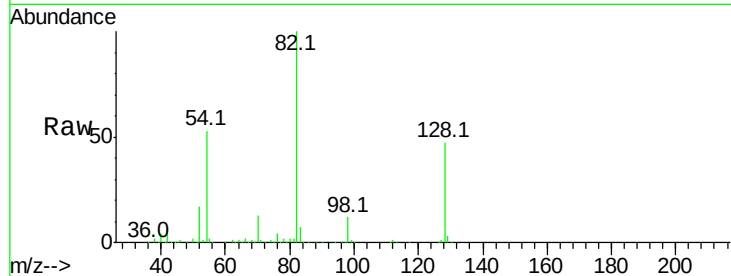




#19  
n-Nitroso-di-n-propylamine  
Concen: 16.321 ng  
RT: 7.46 min Scan# 913  
Delta R.T. 0.14 min  
Lab File: BF100531.D  
Acq: 14 Nov 2017 8:06

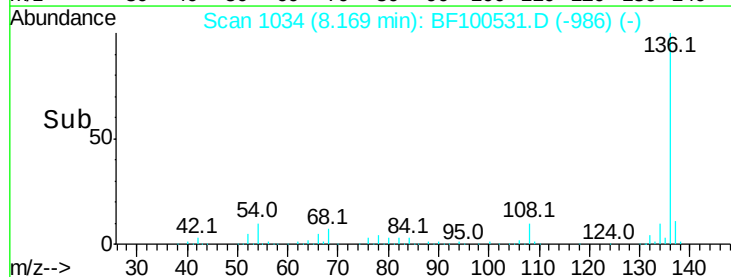
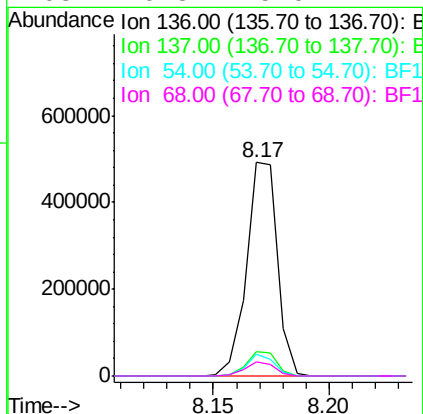
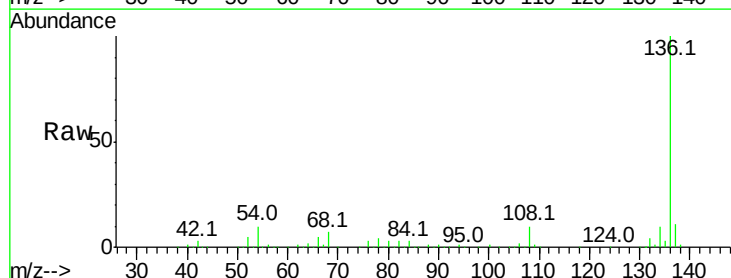
Instrument :  
BNA\_F  
ClientSampleId :

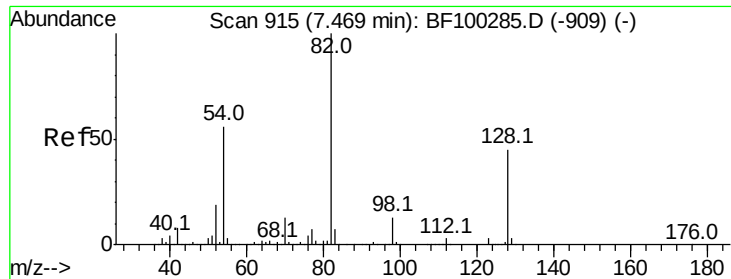
Tot Ion: 70 Resp: 107124  
Ion Ratio Lower Upper  
70 100  
42 51.8 47.5 71.3  
101 0.0 7.4 11.2#  
130 2.2 16.6 25.0#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.17 min Scan# 1034  
Delta R.T. -0.02 min  
Lab File: BF100531.D  
Acq: 14 Nov 2017 8:06

Tgt Ion:136 Resp: 461116  
Ion Ratio Lower Upper  
136 100  
137 11.3 8.9 13.3  
54 10.0 6.6 9.8#  
68 6.8 5.0 7.4

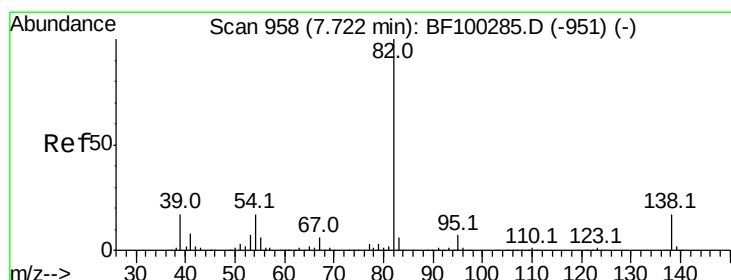
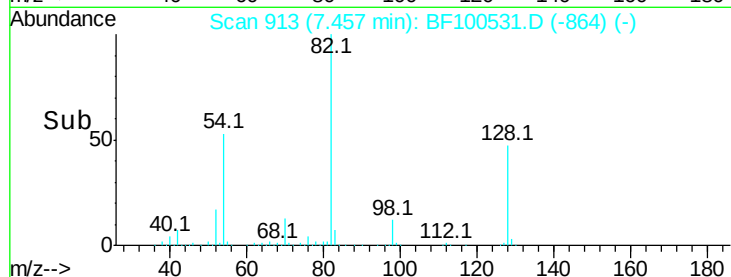
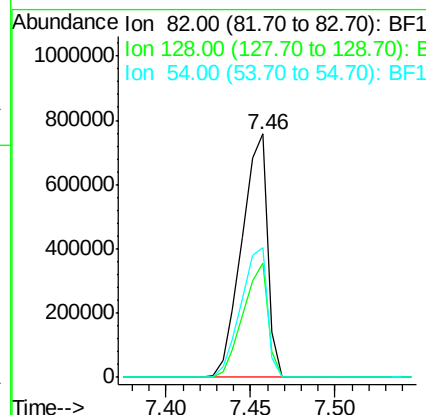
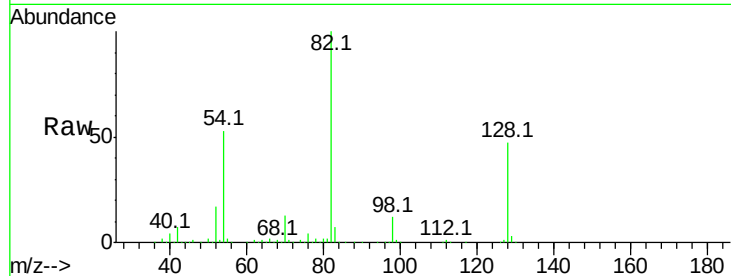




#23  
Nitrobenzene-d5  
Concen: 115.856 ng  
RT: 7.46 min Scan# 913  
Delta R.T. -0.01 min  
Lab File: BF100531.D  
Acq: 14 Nov 2017 8:06

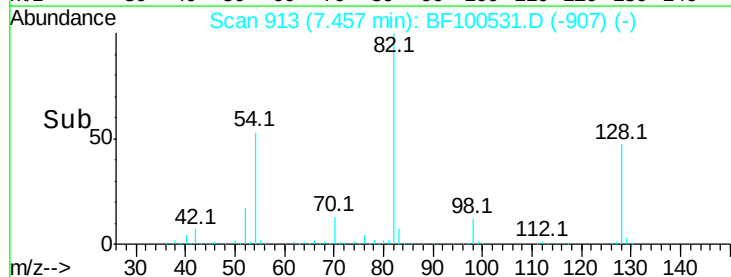
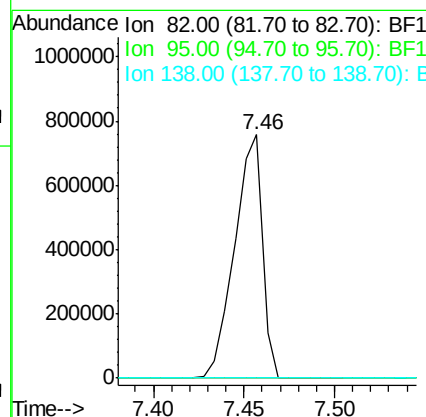
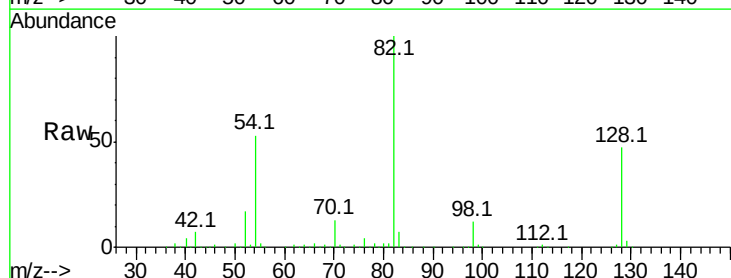
Instrument :  
BNA\_F  
ClientSampleId :

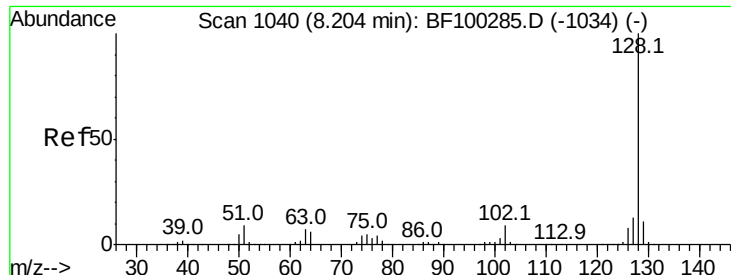
| Tot Ion | 82    | Resp  | 808055 |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 82      | 100   |       |        |
| 128     | 46.9  | 36.1  | 54.1   |
| 54      | 53.3  | 41.4  | 62.2   |



#25  
Isophorone  
Concen: 55.131 ng  
RT: 7.46 min Scan# 913  
Delta R.T. -0.26 min  
Lab File: BF100531.D  
Acq: 14 Nov 2017 8:06

| Tgt Ion | 82    | Resp  | 808033 |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 82      | 100   |       |        |
| 95      | 0.0   | 5.2   | 7.8#   |
| 138     | 0.0   | 14.9  | 22.3#  |

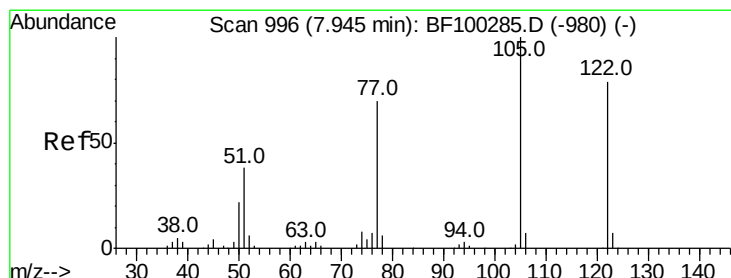
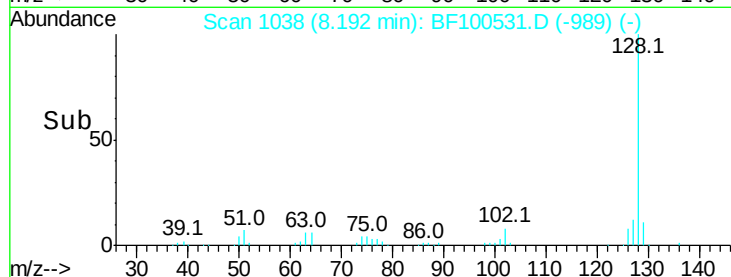
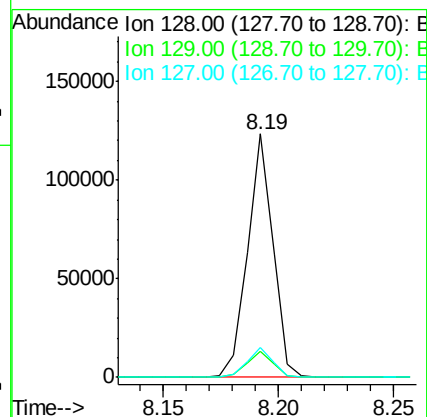
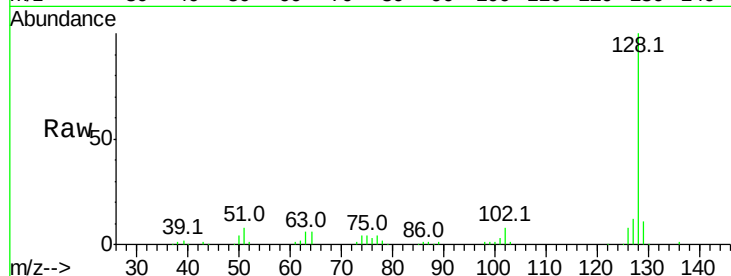




#31  
Naphthalene  
Concen: 4.274 ng  
RT: 8.19 min Scan# 1038  
Delta R.T. -0.01 min  
Lab File: BF100531.D  
Acq: 14 Nov 2017 8:06

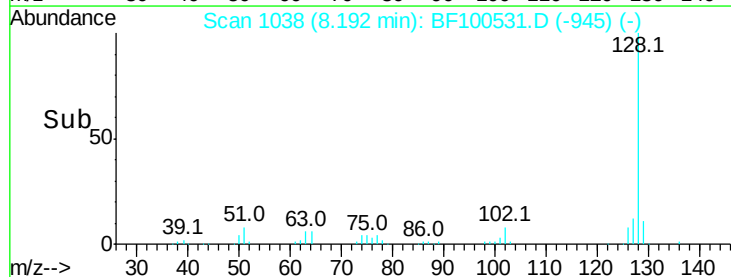
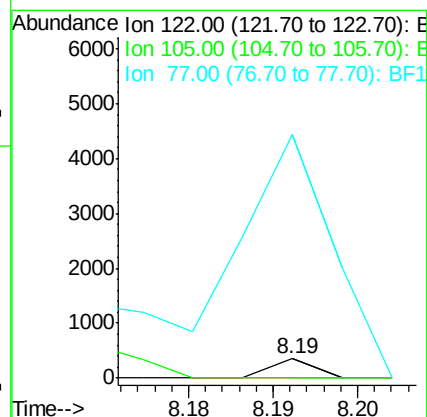
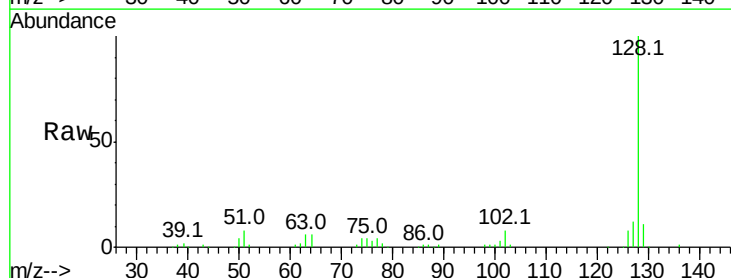
Instrument :  
BNA\_F  
ClientSampleId :

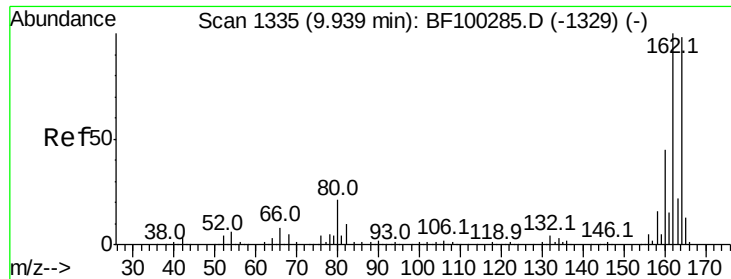
Tot Ion:128 Resp: 94935  
Ion Ratio Lower Upper  
128 100  
129 10.7 8.8 13.2  
127 12.2 10.9 16.3



#32  
Benzoic acid  
Concen: 9.391 ng  
RT: 8.19 min Scan# 1038  
Delta R.T. 0.25 min  
Lab File: BF100531.D  
Acq: 14 Nov 2017 8:06

Tgt Ion:122 Resp: 124  
Ion Ratio Lower Upper  
122 100  
105 0.0 101.1 141.1#  
77 1268.0 70.7 110.7#

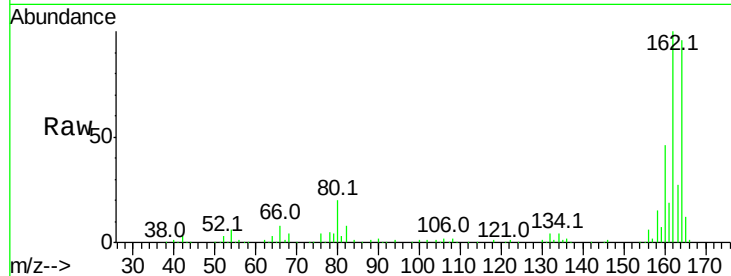




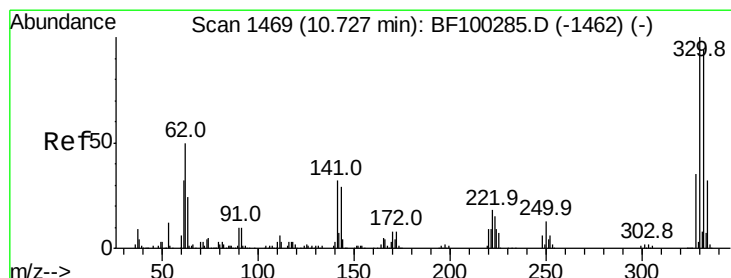
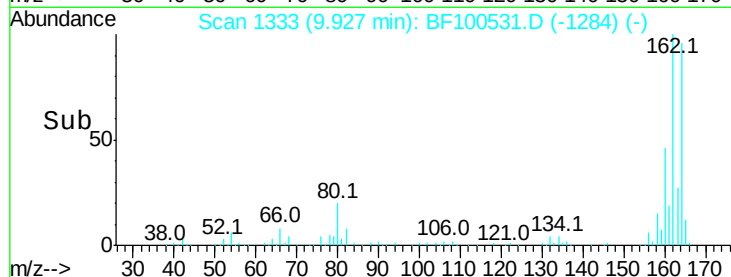
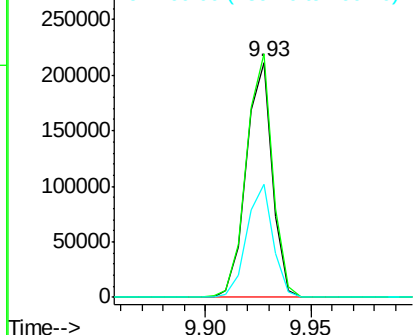
#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.93 min Scan# 1333  
Delta R.T. -0.01 min  
Lab File: BF100531.D  
Acq: 14 Nov 2017 8:06

Instrument :  
BNA\_F  
ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 103.7 | 86.1  | 129.1 |
| 160     | 48.0  | 38.3  | 57.5  |

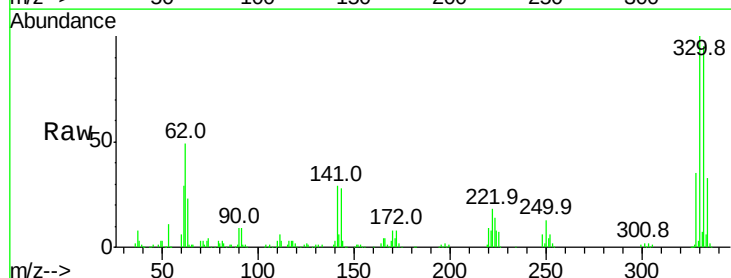


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

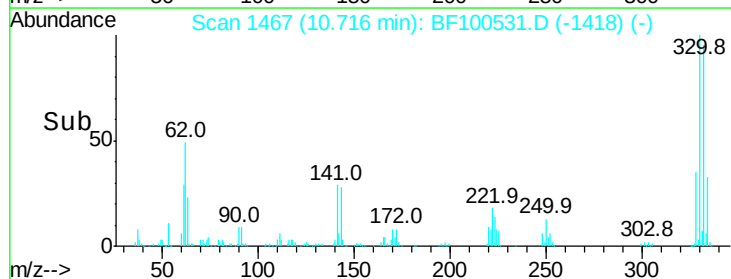
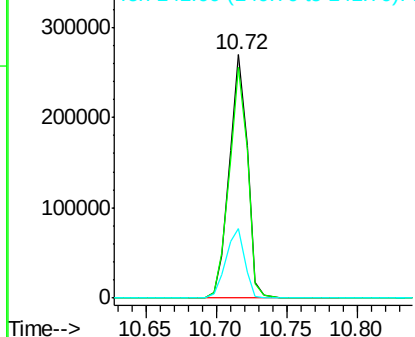


#41  
2,4,6-Tribromophenol  
Concen: 130.570 ng  
RT: 10.72 min Scan# 1467  
Delta R.T. -0.01 min  
Lab File: BF100531.D  
Acq: 14 Nov 2017 8:06

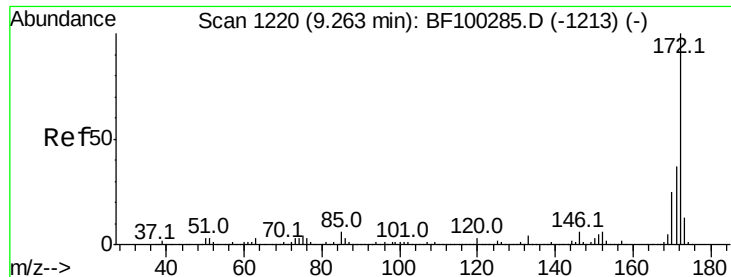
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.3  | 77.0  | 115.6 |
| 141     | 29.8  | 29.9  | 44.9# |



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



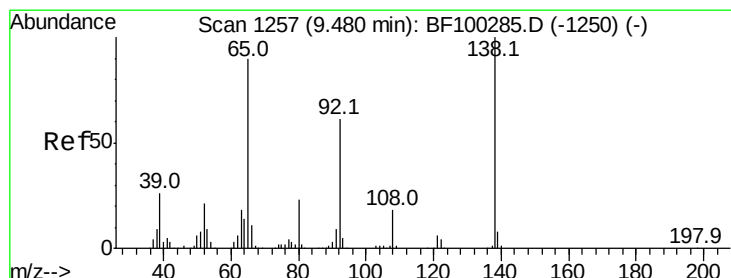
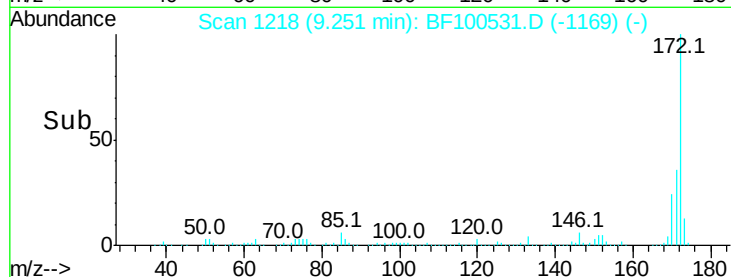
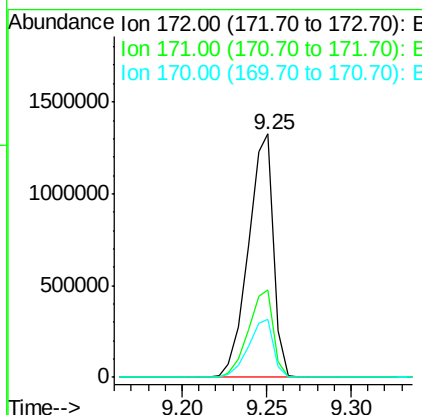
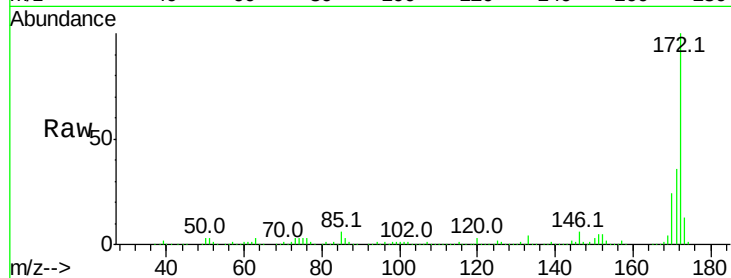




#44  
2-Fluorobiphenyl  
Concen: 116.119 ng  
RT: 9.25 min Scan# 1218  
Delta R.T. -0.01 min  
Lab File: BF100531.D  
Acq: 14 Nov 2017 8:06

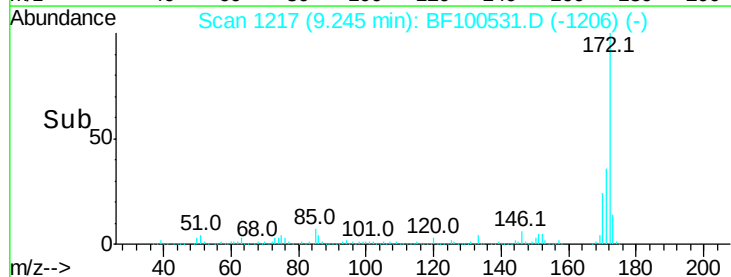
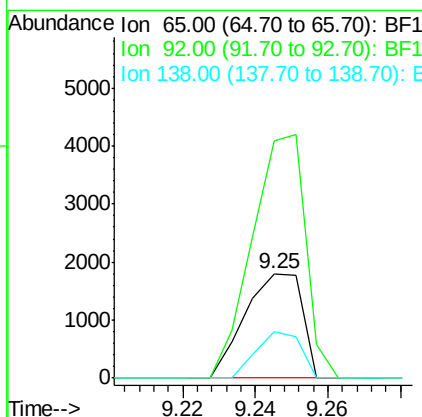
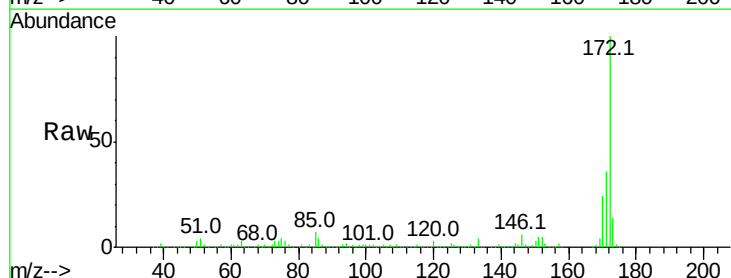
Instrument :  
BNA\_F  
ClientSampleId :

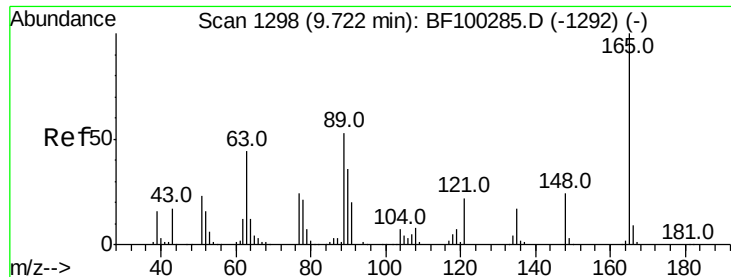
Tot Ion:172 Resp: 1377654  
Ion Ratio Lower Upper  
172 100  
171 36.1 29.7 44.5  
170 24.0 19.6 29.4



#47  
2-Nitroaniline  
Concen: 3.337 ng  
RT: 9.25 min Scan# 1217  
Delta R.T. -0.24 min  
Lab File: BF100531.D  
Acq: 14 Nov 2017 8:06

Tgt Ion: 65 Resp: 1967  
Ion Ratio Lower Upper  
65 100  
92 227.3 55.8 83.6#  
138 44.1 91.2 136.8#





#50

2,6-Dinitrotoluene

Concen: 8.652 ng

RT: 9.93 min Scan# 1333

Delta R.T. 0.21 min

Lab File: BF100531.D

Acq: 14 Nov 2017 8:06

Instrument :

BNA\_F

ClientSampleId :

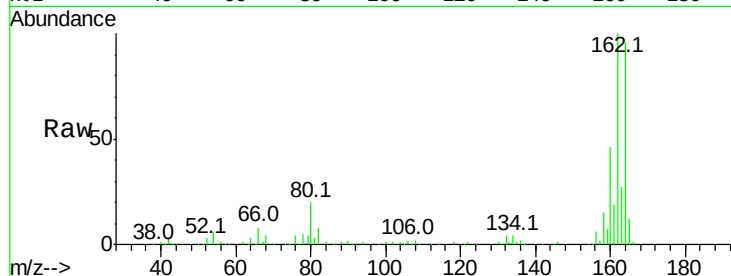
Tot Ion:165 Resp: 23622

Ion Ratio Lower Upper

165 100

63 1.2 44.7 67.1#

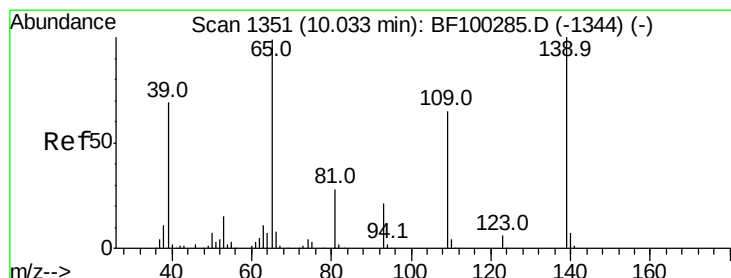
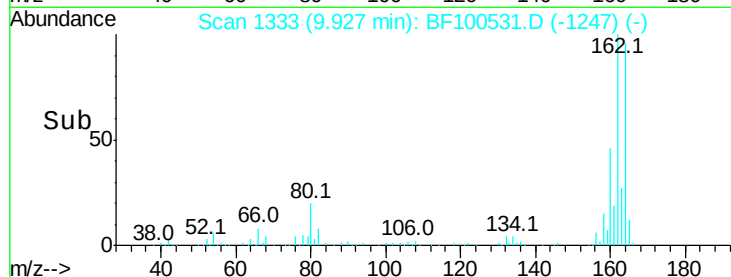
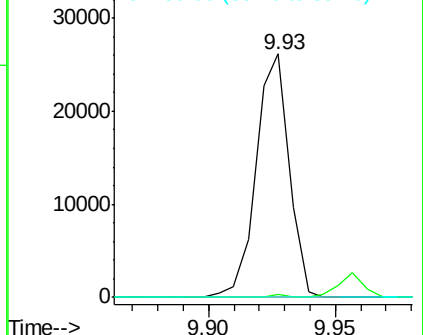
89 0.0 44.0 66.0#



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



#55

4-Nitrophenol

Concen: 2.895 ng

RT: 10.13 min Scan# 1367

Delta R.T. 0.09 min

Lab File: BF100531.D

Acq: 14 Nov 2017 8:06

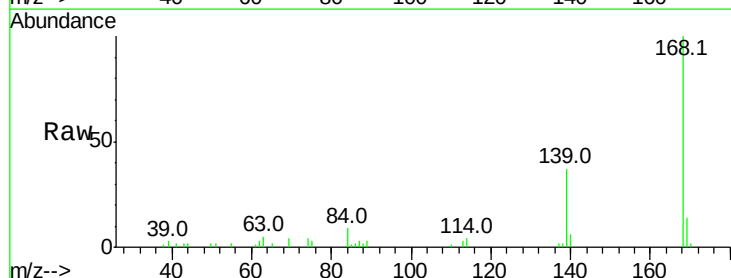
Tgt Ion:139 Resp: 7579

Ion Ratio Lower Upper

139 100

109 0.0 48.4 88.4#

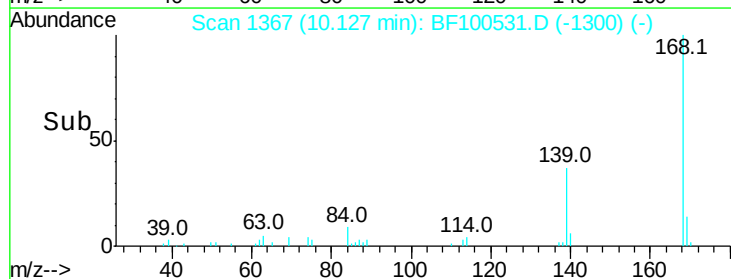
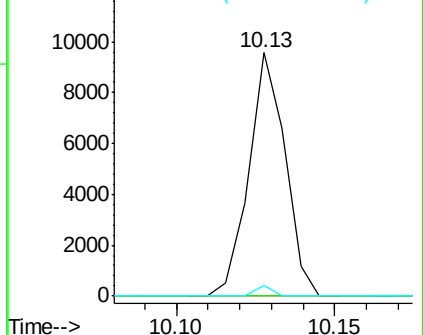
65 4.1 72.6 112.6#

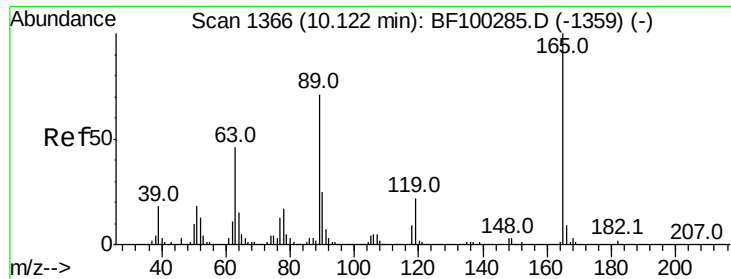


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF1

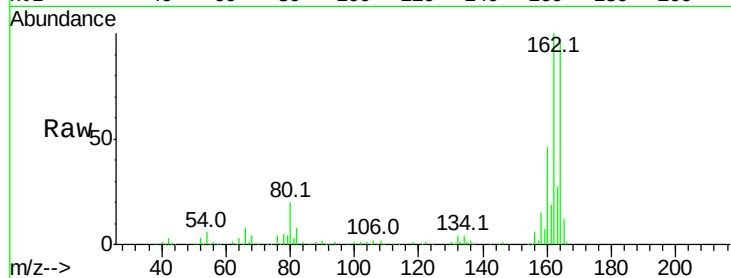




#56  
 2,4-Dinitrotoluene  
 Concen: 6.858 ng  
 RT: 9.93 min Scan# 1333  
 Delta R.T. -0.19 min  
 Lab File: BF100531.D  
 Acq: 14 Nov 2017 8:06

Instrument :  
 BNA\_F  
 ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 165   | Resp: | 23622 |
| Ion      | Ratio | Lower | Upper |
| 165      | 100   |       |       |
| 63       | 1.2   | 36.4  | 54.6# |
| 89       | 0.0   | 57.8  | 86.6# |
| 182      | 0.0   | 1.6   | 2.4#  |

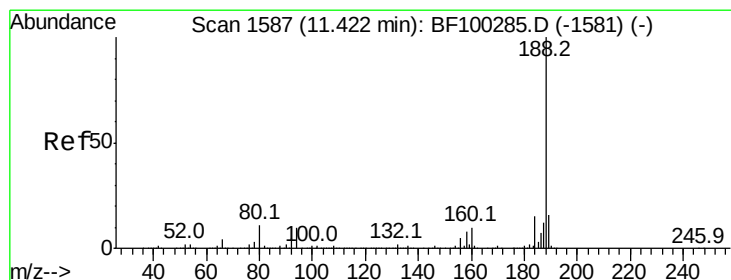
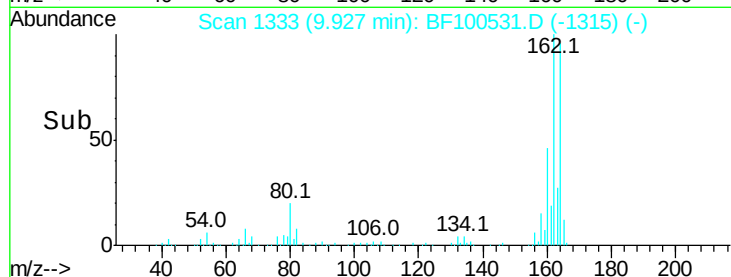
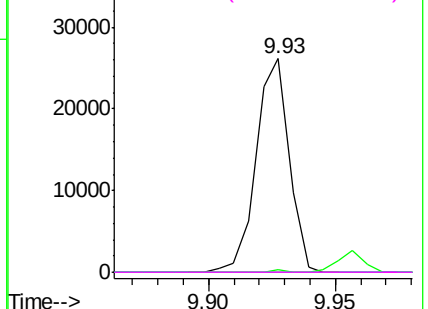


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

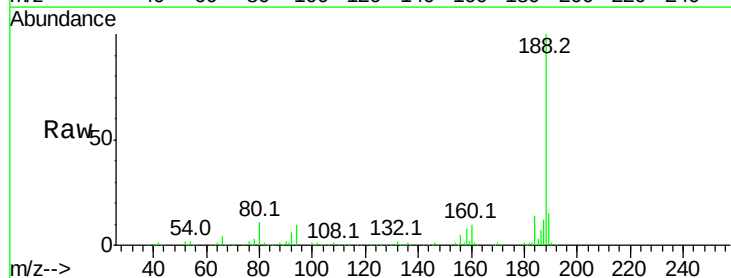
Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E



#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.41 min Scan# 1585  
 Delta R.T. -0.01 min  
 Lab File: BF100531.D  
 Acq: 14 Nov 2017 8:06

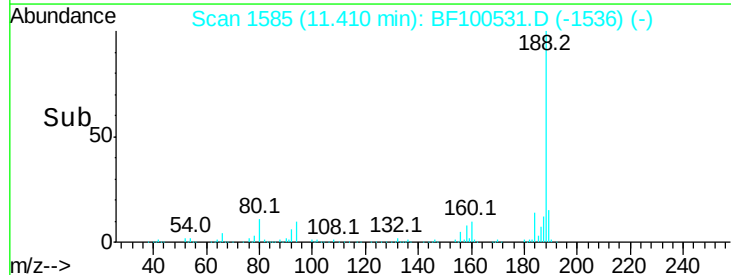
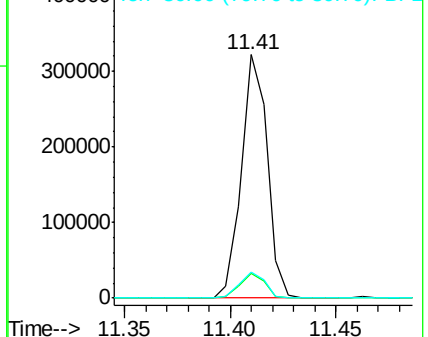
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 188   | Resp: | 272746 |
| Ion      | Ratio | Lower | Upper  |
| 188      | 100   |       |        |
| 94       | 10.4  | 8.5   | 12.7   |
| 80       | 10.8  | 9.2   | 13.8   |

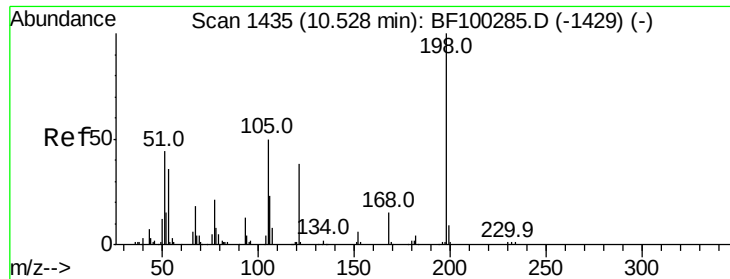


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1





#64

4,6-Dinitro-2-methylphenol

Concen: 8.778 ng

RT: 10.72 min Scan# 1467

Delta R.T. 0.19 min

Lab File: BF100531.D

Acq: 14 Nov 2017 8:06

Instrument :

BNA\_F

ClientSampled :

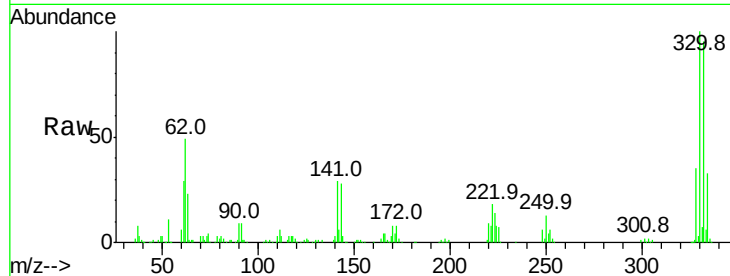
Tot Ion:198 Resp: 349

Ion Ratio Lower Upper

198 100

51 188.0 37.7 77.7#

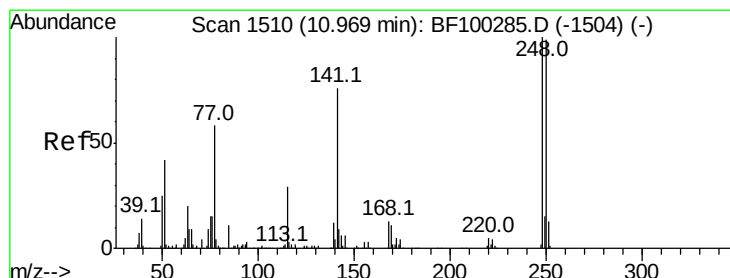
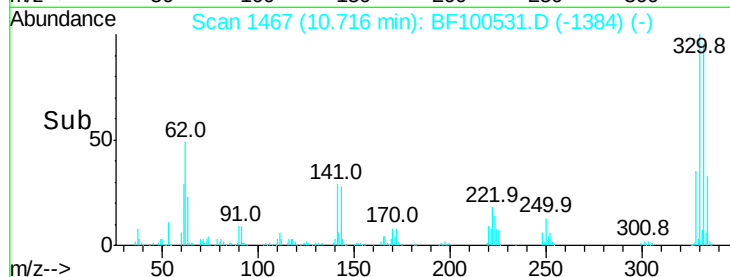
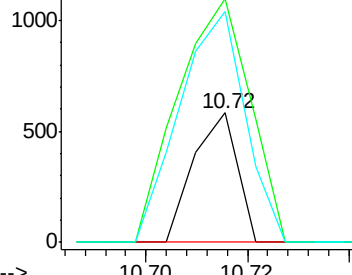
105 178.4 36.3 76.3#



Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF1

Ion 105.00 (104.70 to 105.70): E



#66

4-Bromophenyl-phenylether

Concen: 5.262 ng

RT: 10.72 min Scan# 1467

Delta R.T. -0.25 min

Lab File: BF100531.D

Acq: 14 Nov 2017 8:06

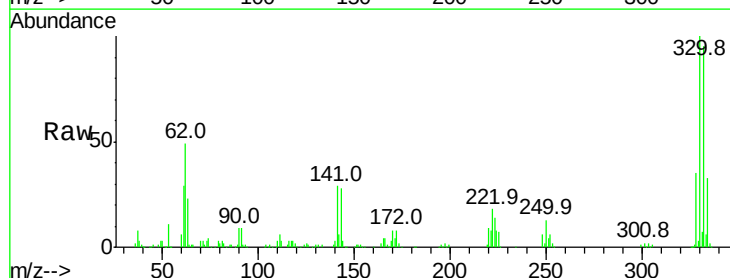
Tgt Ion:248 Resp: 15385

Ion Ratio Lower Upper

248 100

250 199.0 76.9 115.3#

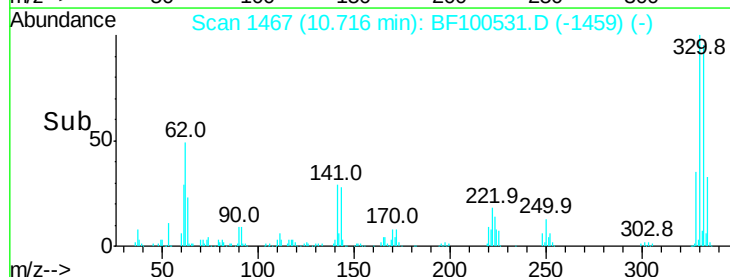
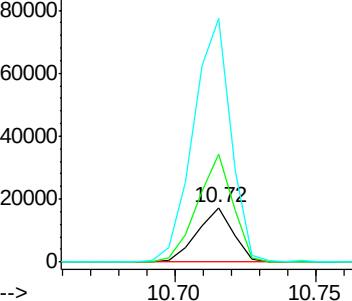
141 447.5 74.4 111.6#

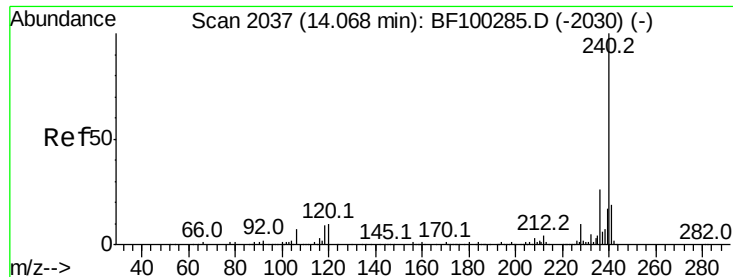


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.05 min Scan# 2034

Delta R.T. -0.02 min

Lab File: BF100531.D

Acq: 14 Nov 2017 8:06

Instrument :

BNA\_F

ClientSampleId :

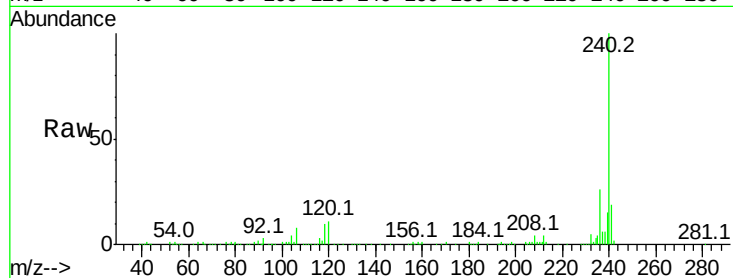
Tot Ion:240 Resp: 253665

Ion Ratio Lower Upper

240 100

120 11.3 9.5 14.3

236 26.3 20.7 31.1

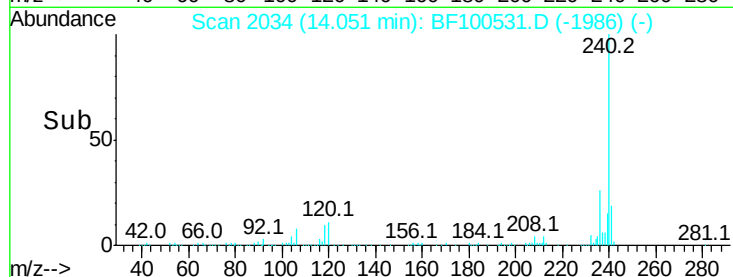


Abundance Ion 240.00 (239.70 to 240.70): E

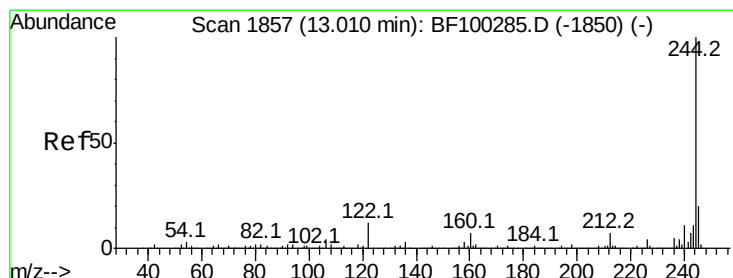
Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

14.05



Time-->



#78

Terphenyl-d14

Concen: 91.493 ng

RT: 13.00 min Scan# 1855

Delta R.T. -0.01 min

Lab File: BF100531.D

Acq: 14 Nov 2017 8:06

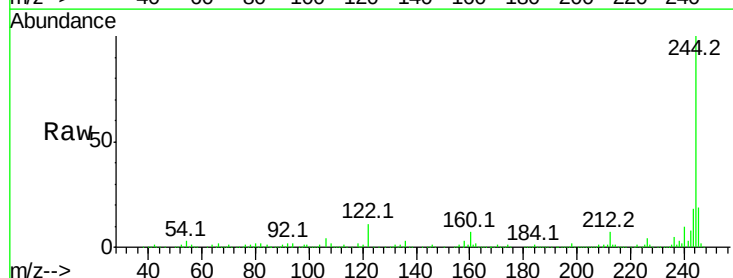
Tgt Ion:244 Resp: 1010071

Ion Ratio Lower Upper

244 100

212 6.9 5.4 8.0

122 11.3 11.0 16.4

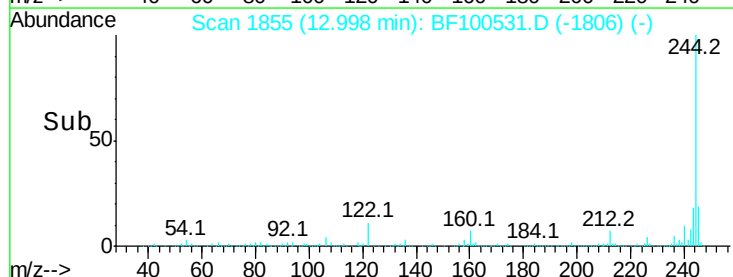


Abundance Ion 244.00 (243.70 to 244.70): E

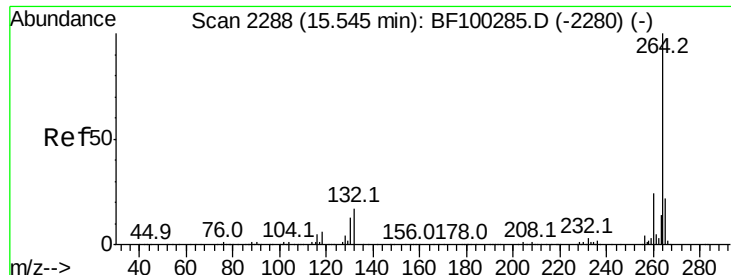
Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

13.00



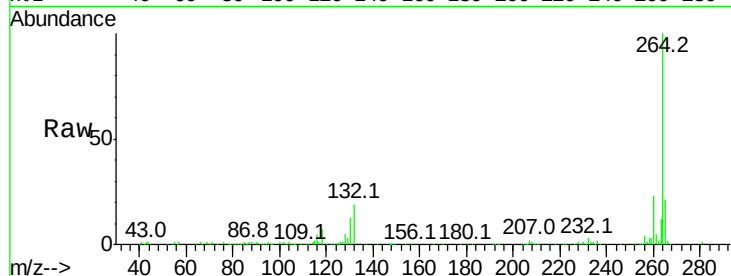
Time-->



#86  
 Pervlene-d12  
 Concen: 20.000 ng  
 RT: 15.53 min Scan# 2285  
 Delta R.T. -0.02 min  
 Lab File: BF100531.D  
 Acq: 14 Nov 2017 8:06

Instrument :  
 BNA\_F  
 ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 264   | Resp: | 202624 |
| Ion      | Ratio | Lower | Upper  |
| 264      | 100   |       |        |
| 260      | 23.0  | 19.2  | 28.8   |
| 265      | 20.9  | 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

