

Data Path : Z:\HPCHEM1\BNA F\DATA\BF100817\  
 Data File : BF099243.D  
 Acq On : 8 Oct 2017 20:24  
 Operator : SJ/JU  
 Sample : I5715-06  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Oct 09 01:14:41 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Oct 05 17:20:48 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.86  | 152  | 131185   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.15  | 136  | 546483   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 9.90  | 164  | 252140   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.39 | 188  | 465726   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 14.03 | 240  | 338628   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.50 | 264  | 239706   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.50  | 112  | 957976   | 116.25 | ng    | 0.02     |
| 7) Phenol-d6                | 6.50  | 99   | 1061974  | 104.46 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.43  | 82   | 773088   | 90.72  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 10.69 | 330  | 287655   | 139.42 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.22  | 172  | 1397222  | 92.51  | ng    | 0.00     |
| 78) Terphenyl-d14           | 12.97 | 244  | 1285078  | 86.30  | ng    | 0.00     |

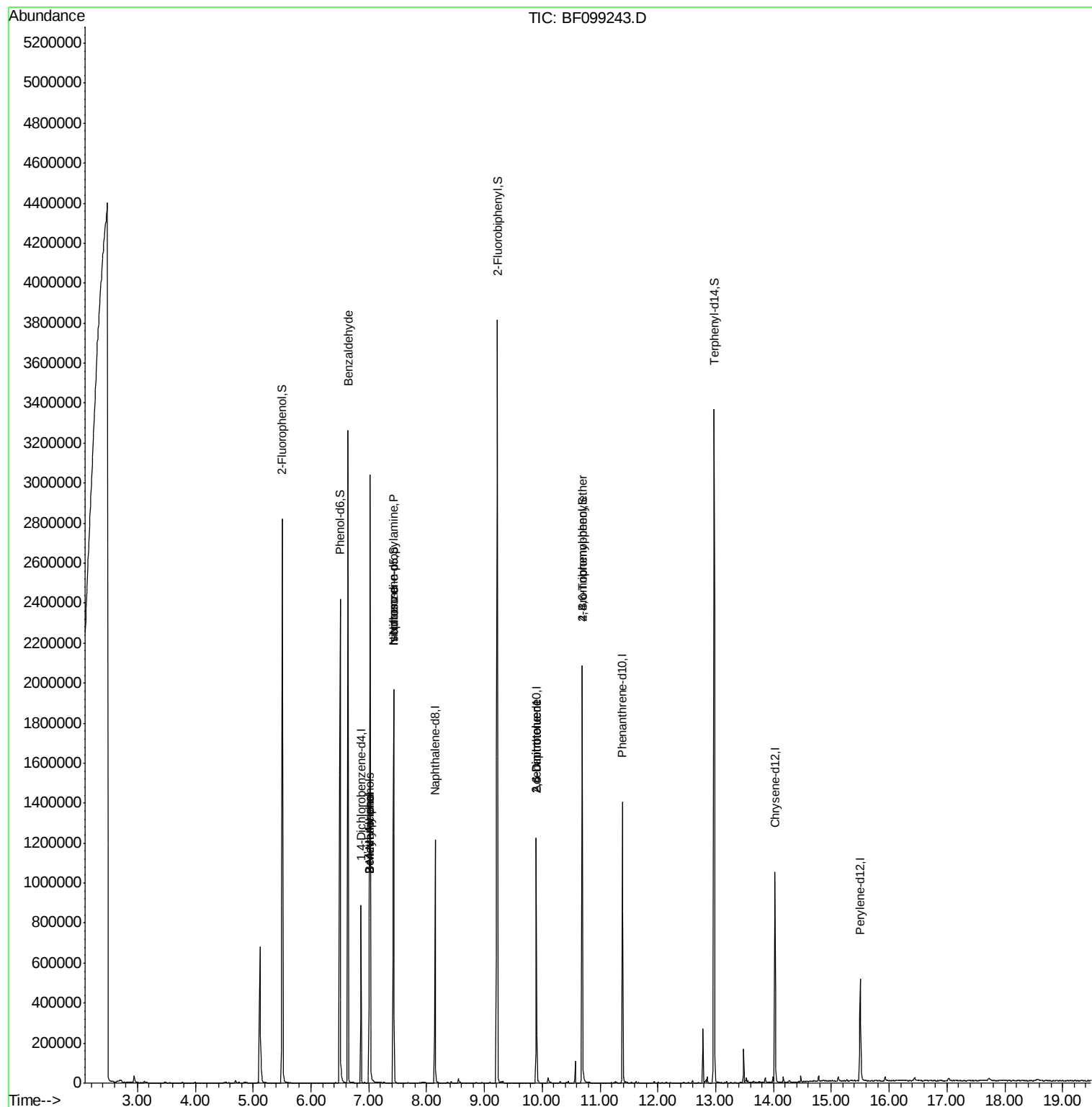
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 9) Benzaldehyde                | 6.64  | 77   | 20086    | 3.41  | ng    | 88     |
| 15) Benzyl Alcohol             | 7.00  | 79   | 94881    | 12.72 | ng    | 96     |
| 17) 2-Methylphenol             | 7.00  | 107  | 49292    | 6.46  | ng    | # 18   |
| 19) n-Nitroso-di-n-propylamine | 7.43  | 70   | 99525    | 15.33 | ng    | # 73   |
| 20) 3+4-Methylphenols          | 7.00  | 107  | 49292    | 5.10  | ng    | # 1    |
| 25) Isophorone                 | 7.43  | 82   | 773071   | 43.88 | ng    | # 64   |
| 50) 2,6-Dinitrotoluene         | 9.90  | 165  | 31978    | 7.72  | ng    | # 25   |
| 56) 2,4-Dinitrotoluene         | 9.90  | 165  | 31978    | 5.95  | ng    | # 23   |
| 66) 4-Bromophenyl-phenylether  | 10.69 | 248  | 18934    | 4.15  | ng    | # 1    |

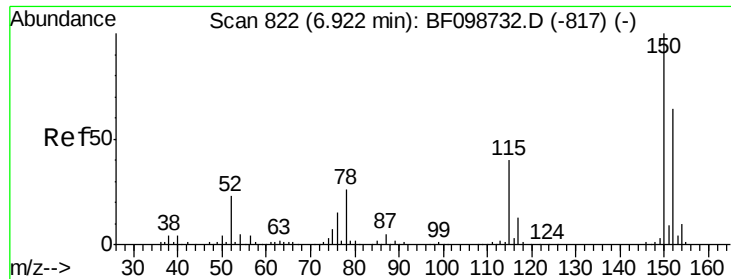
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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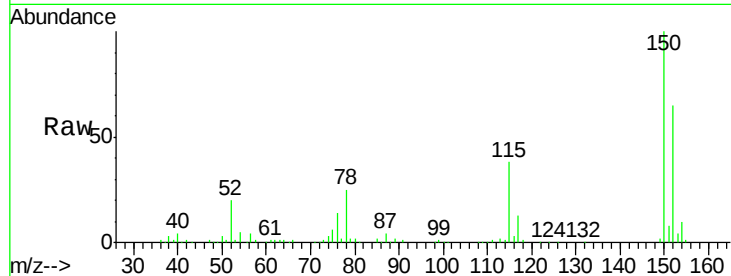


#1

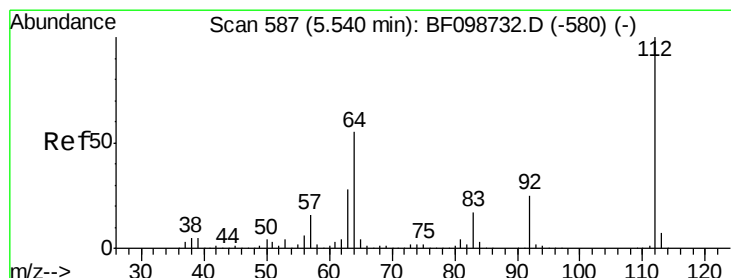
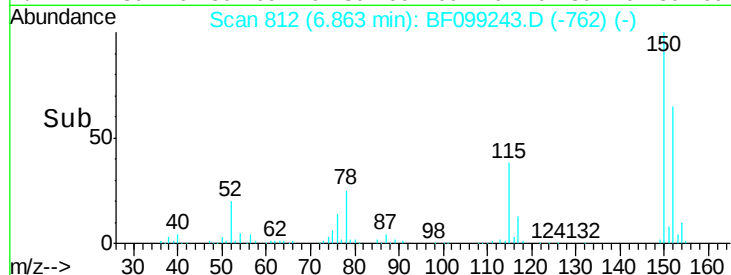
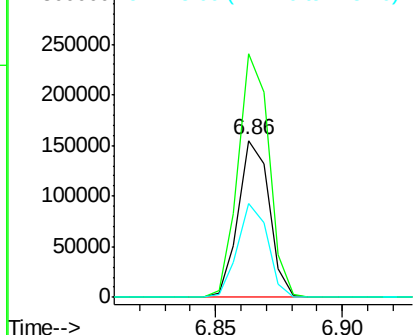
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.86 min Scan# 812  
Delta R.T. -0.01 min  
Lab File: BF099243.D  
Acq: 8 Oct 2017 20:24

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 131185  
Ion Ratio Lower Upper  
152 100  
150 155.0 124.6 186.8  
115 59.4 50.1 75.1



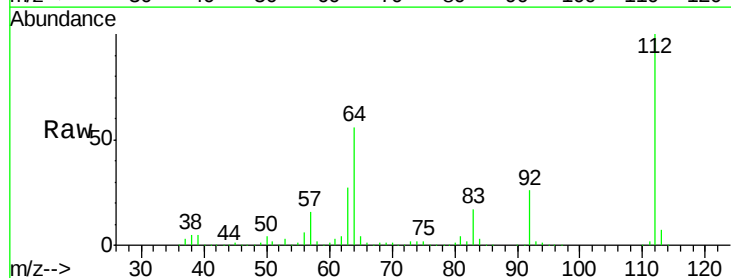
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



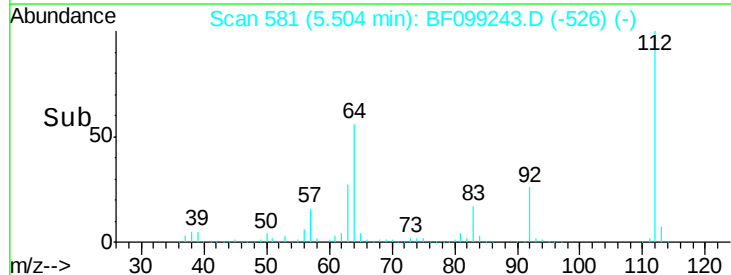
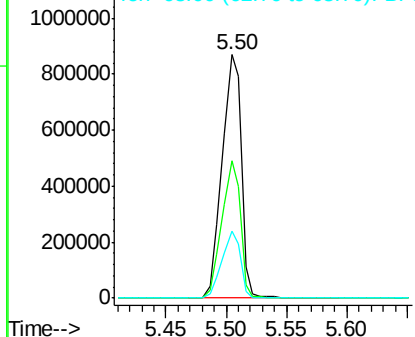
#5

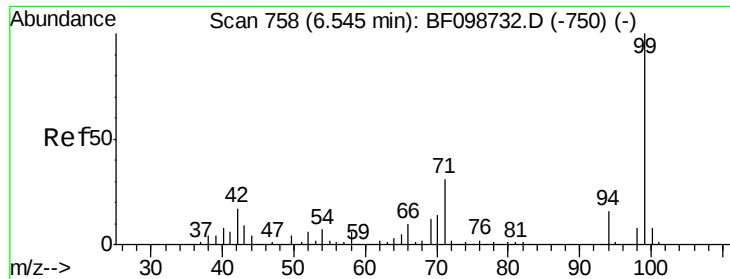
2-Fluorophenol  
Concen: 116.25 ng  
RT: 5.50 min Scan# 581  
Delta R.T. 0.02 min  
Lab File: BF099243.D  
Acq: 8 Oct 2017 20:24

Tgt Ion:112 Resp: 957976  
Ion Ratio Lower Upper  
112 100  
64 56.3 47.9 71.9  
63 27.4 23.7 35.5



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BF0  
Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 104.46 ng

RT: 6.50 min Scan# 751

Delta R.T. 0.01 min

Lab File: BF099243.D

Acq: 8 Oct 2017 20:24

Instrument :

BNA\_F

ClientSampleId :

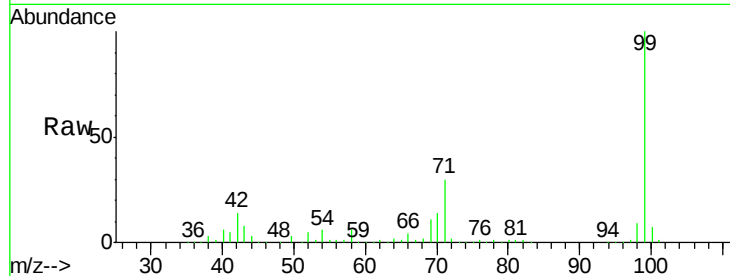
Tot Ion: 99 Resp: 1061974

Ion Ratio Lower Upper

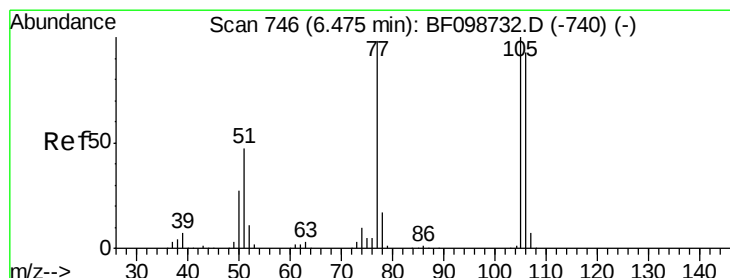
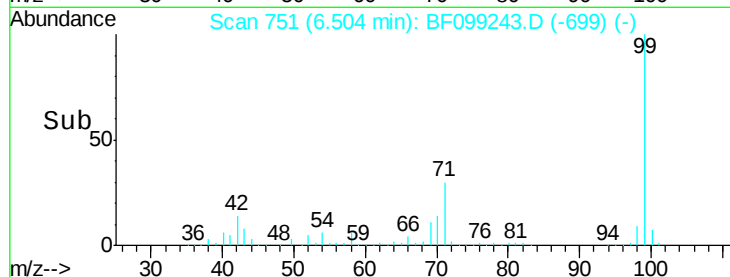
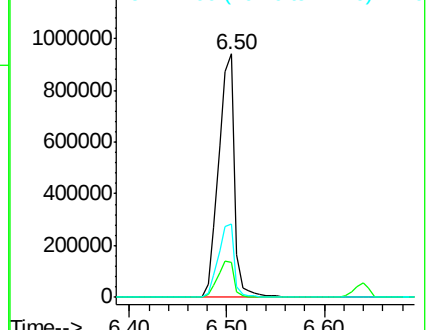
99 100

42 14.5 14.5 21.7

71 30.0 25.4 38.0



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



#9

Benzaldehyde

Concen: 3.41 ng

RT: 6.64 min Scan# 774

Delta R.T. 0.22 min

Lab File: BF099243.D

Acq: 8 Oct 2017 20:24

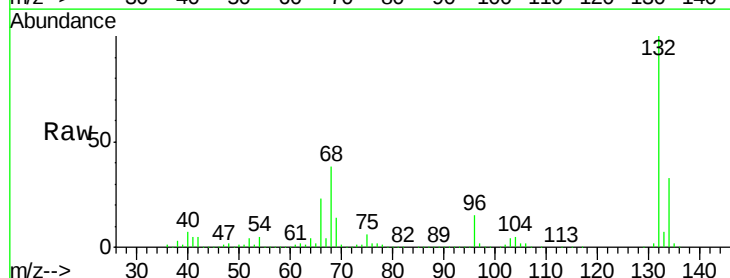
Tgt Ion: 77 Resp: 20086

Ion Ratio Lower Upper

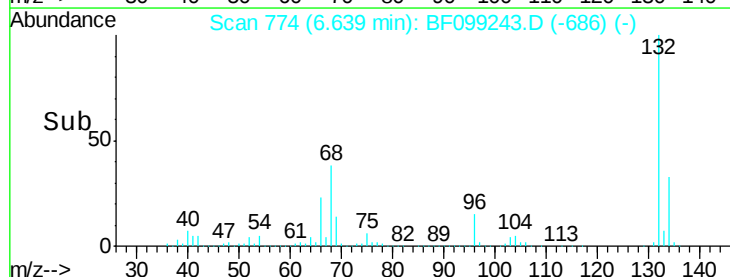
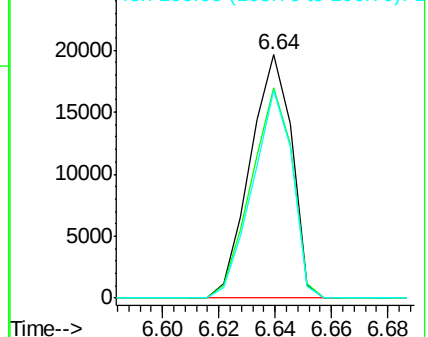
77 100

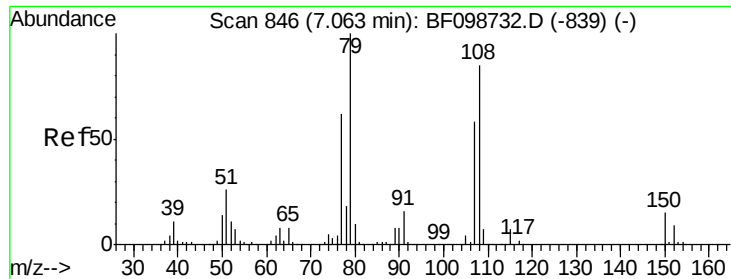
105 86.6 81.1 121.1

106 85.1 74.5 114.5



Abundance Ion 77.00 (76.70 to 77.70): BF0  
Ion 105.00 (104.70 to 105.70): E  
Ion 106.00 (105.70 to 106.70): E

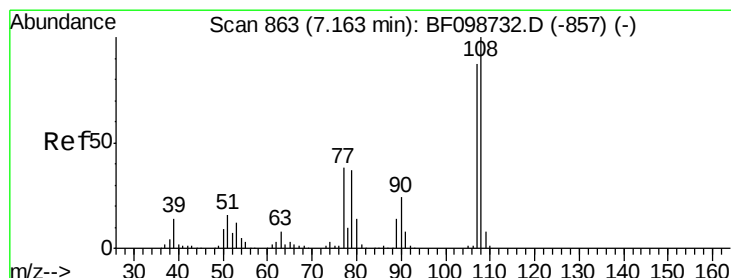
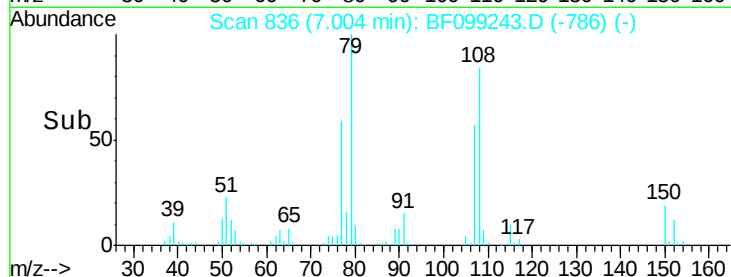
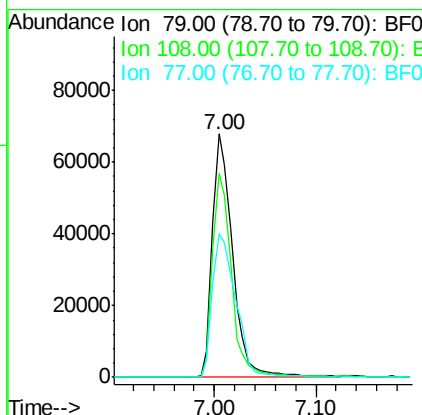
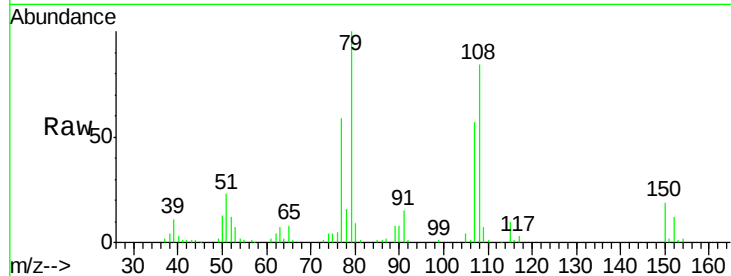




#15  
Benzyl Alcohol  
Concen: 12.72 ng  
RT: 7.00 min Scan# 836  
Delta R.T. -0.01 min  
Lab File: BF099243.D  
Acq: 8 Oct 2017 20:24

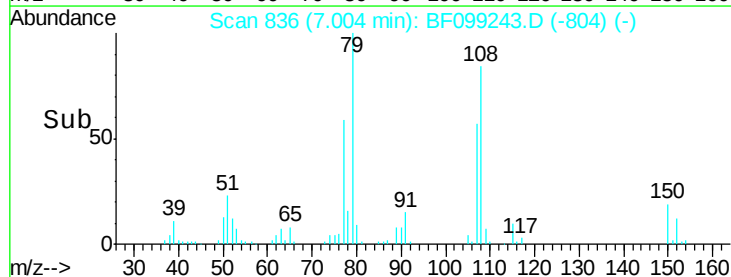
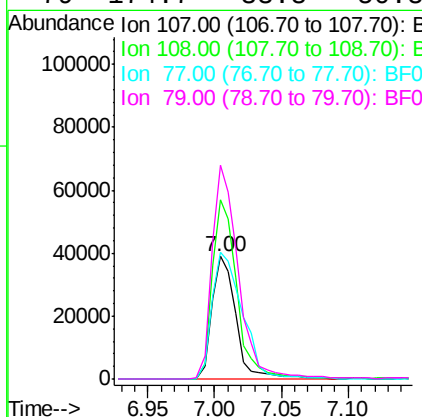
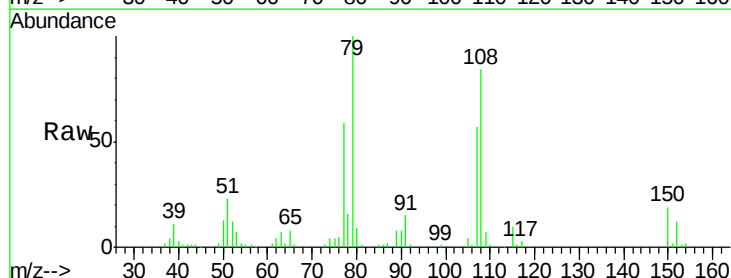
Instrument :  
BNA\_F  
ClientSampleId :

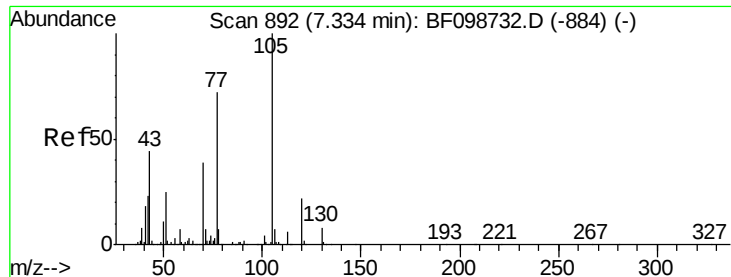
Tot Ion: 79 Resp: 94881  
Ion Ratio Lower Upper  
79 100  
108 84.0 65.1 97.7  
77 59.3 50.6 75.8



#17  
2-Methylphenol  
Concen: 6.46 ng  
RT: 7.00 min Scan# 836  
Delta R.T. -0.11 min  
Lab File: BF099243.D  
Acq: 8 Oct 2017 20:24

Tgt Ion: 107 Resp: 49292  
Ion Ratio Lower Upper  
107 100  
108 146.7 91.7 137.5#  
77 103.5 33.8 50.8#  
79 174.7 33.8 50.8#

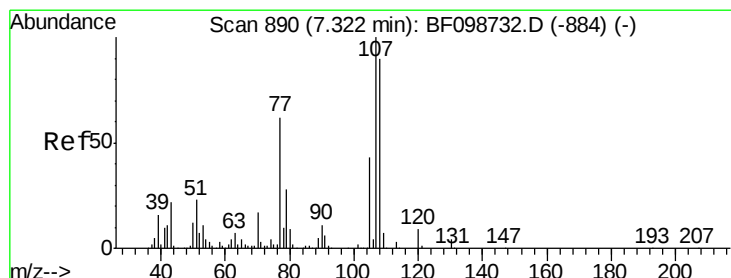
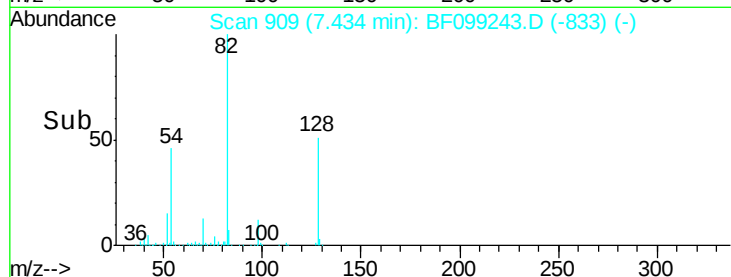
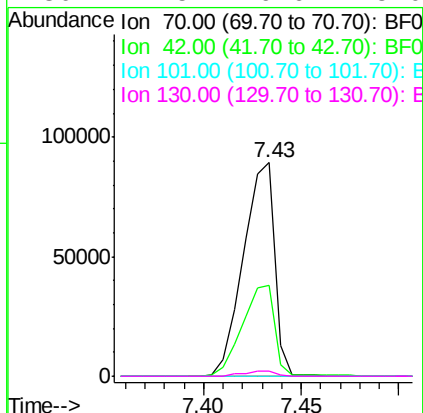
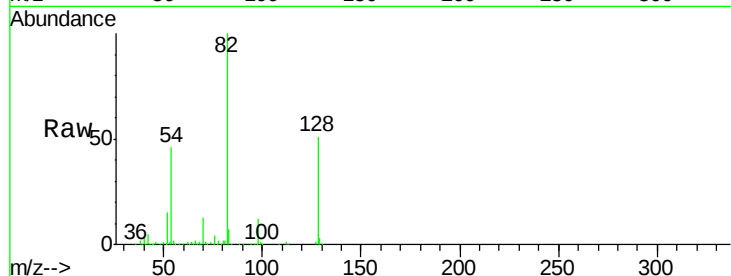




#19  
n-Nitroso-di-n-propylamine  
Concen: 15.33 ng  
RT: 7.43 min Scan# 909  
Delta R.T. 0.15 min  
Lab File: BF099243.D  
Acq: 8 Oct 2017 20:24

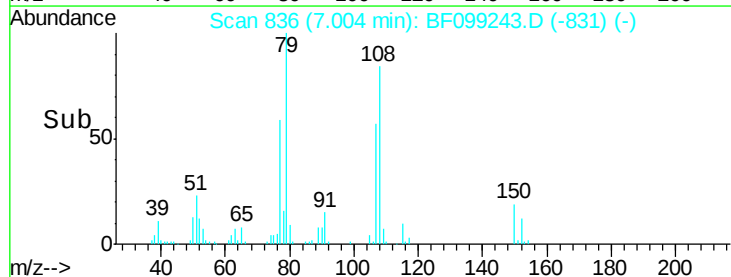
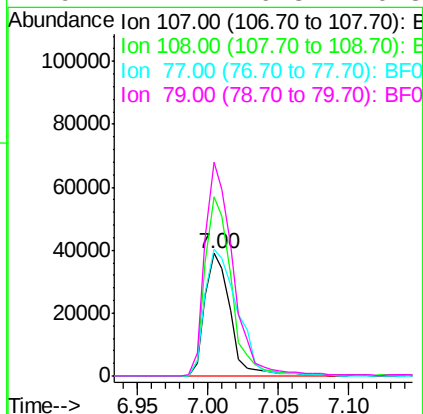
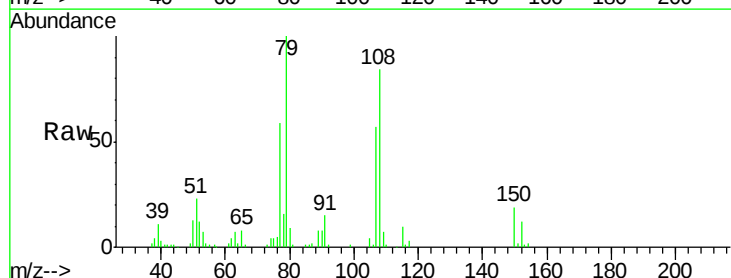
Instrument :  
BNA\_F  
ClientSampleId :

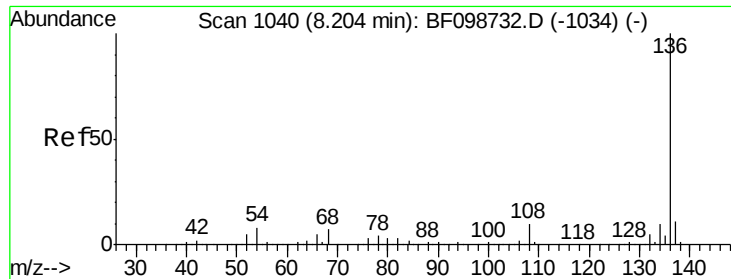
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 70      | 100   |       |       |
| 42      | 42.4  | 47.5  | 71.3# |
| 101     | 0.0   | 7.4   | 11.2# |
| 130     | 2.5   | 16.6  | 25.0# |



#20  
3+4-Methylphenols  
Concen: 5.10 ng  
RT: 7.00 min Scan# 836  
Delta R.T. -0.27 min  
Lab File: BF099243.D  
Acq: 8 Oct 2017 20:24

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 107     | 100   |       |        |
| 108     | 146.7 | 68.2  | 108.2# |
| 77      | 103.5 | 26.7  | 66.7#  |
| 79      | 174.7 | 6.3   | 46.3#  |

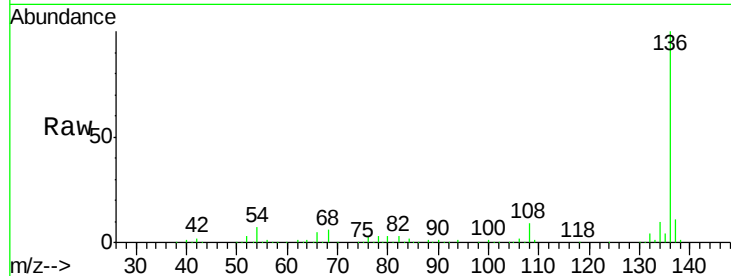




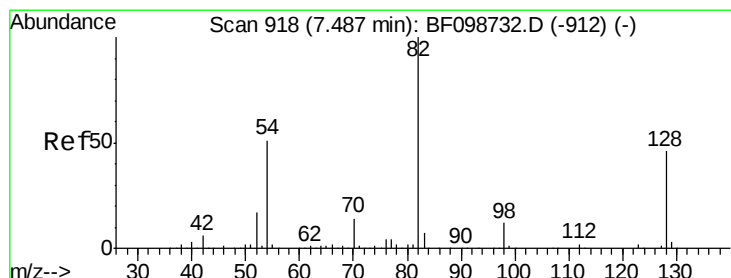
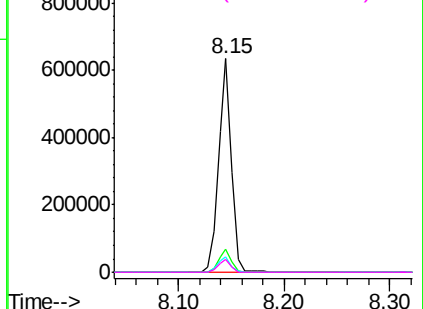
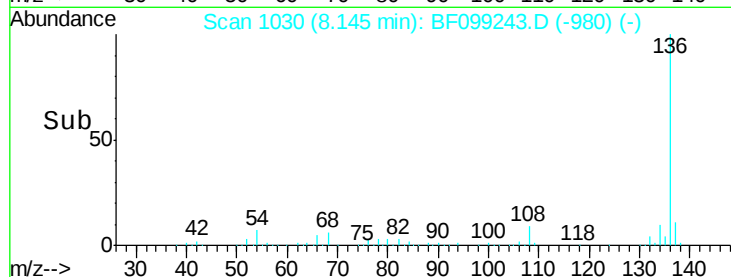
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.15 min Scan# 1030  
Delta R.T. -0.01 min  
Lab File: BF099243.D  
Acq: 8 Oct 2017 20:24

Instrument :  
BNA\_F  
ClientSampled :

|             |       |          |
|-------------|-------|----------|
| Tot Ion:136 | Resp: | 546483   |
| Ion Ratio   | Lower | Upper    |
| 136         | 100   |          |
| 137         | 10.9  | 8.9 13.3 |
| 54          | 7.2   | 6.6 9.8  |
| 68          | 6.1   | 5.0 7.4  |

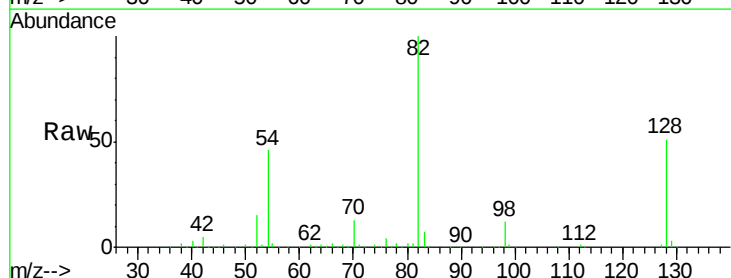


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF0  
Ion 68.00 (67.70 to 68.70): BF0

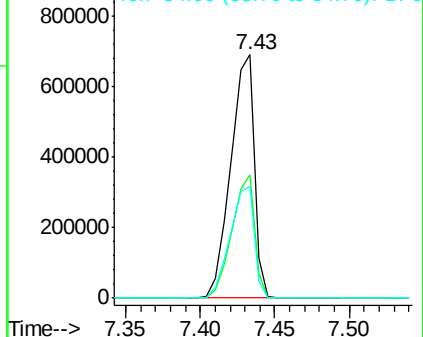
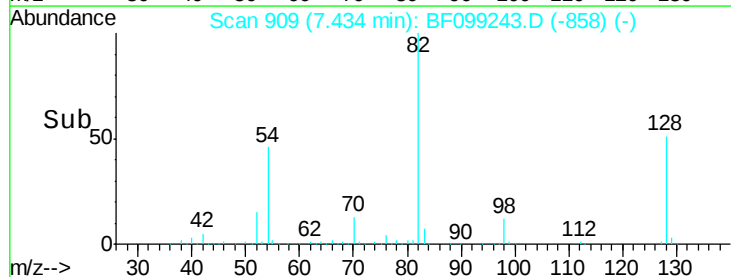


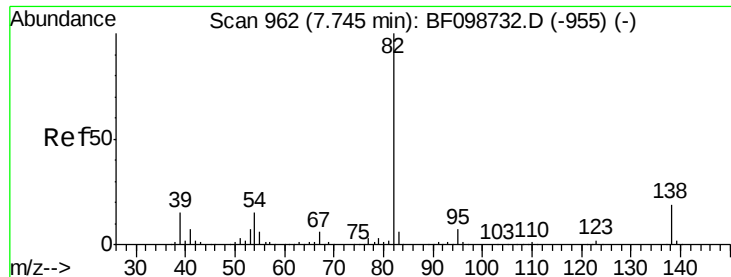
#23  
Nitrobenzene-d5  
Concen: 90.72 ng  
RT: 7.43 min Scan# 909  
Delta R.T. -0.00 min  
Lab File: BF099243.D  
Acq: 8 Oct 2017 20:24

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion: 82 | Resp: | 773088    |
| Ion Ratio   | Lower | Upper     |
| 82          | 100   |           |
| 128         | 50.5  | 36.1 54.1 |
| 54          | 45.7  | 41.4 62.2 |



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





#25

Isophorone

Concen: 43.88 ng

RT: 7.43 min Scan# 909

Delta R.T. -0.26 min

Lab File: BF099243.D

Acq: 8 Oct 2017 20:24

Instrument :

BNA\_F

ClientSampled :

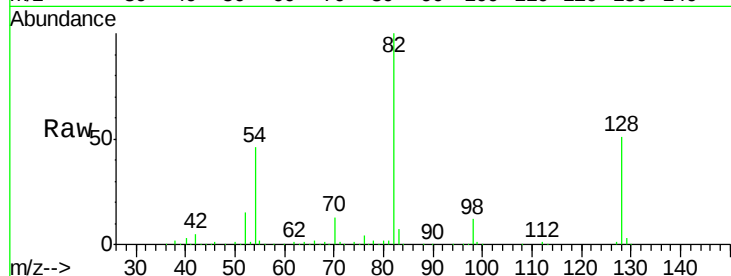
Tot Ion: 82 Resp: 773071

Ion Ratio Lower Upper

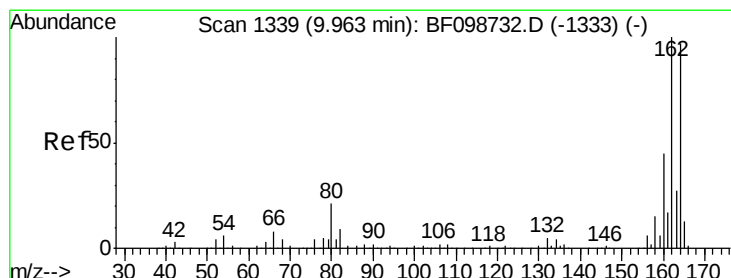
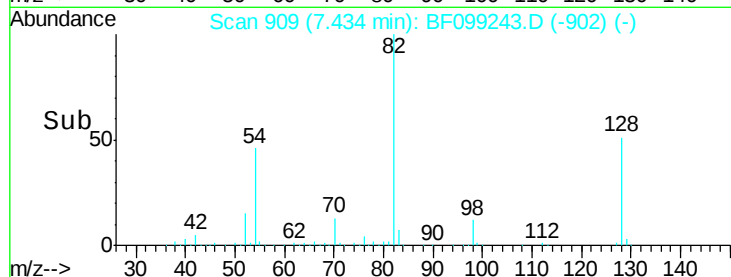
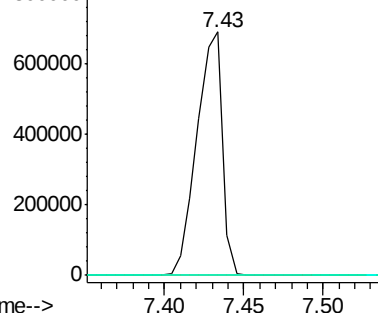
82 100

95 0.0 5.2 7.8#

138 0.0 14.9 22.3#



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): E



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.90 min Scan# 1328

Delta R.T. -0.01 min

Lab File: BF099243.D

Acq: 8 Oct 2017 20:24

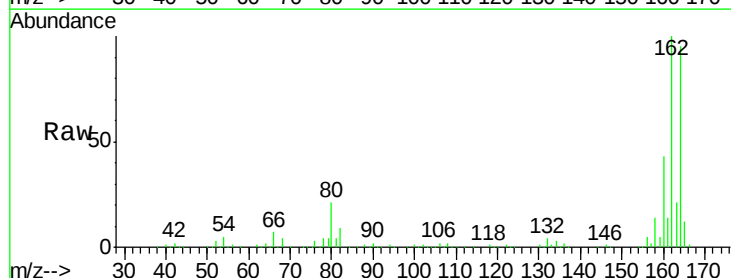
Tgt Ion: 164 Resp: 252140

Ion Ratio Lower Upper

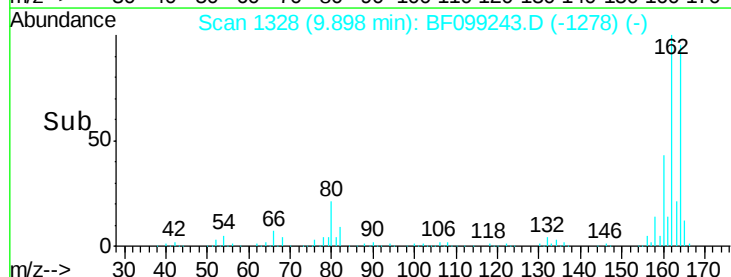
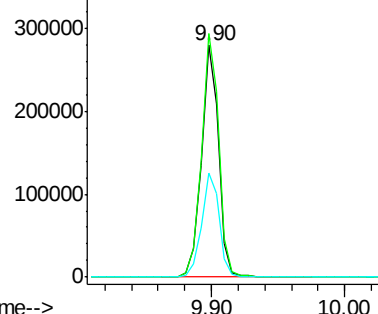
164 100

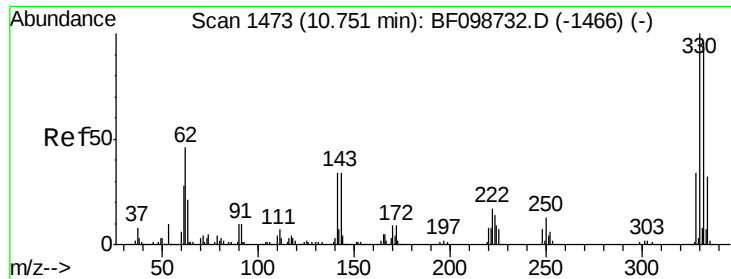
162 105.1 86.1 129.1

160 44.7 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

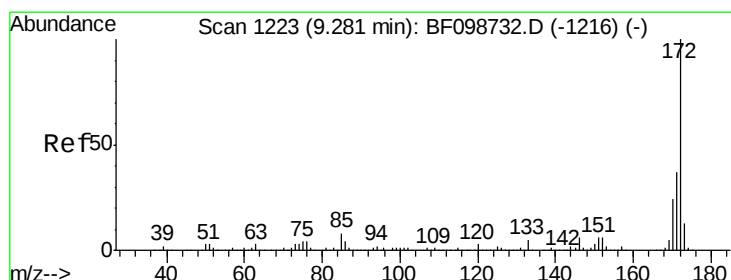
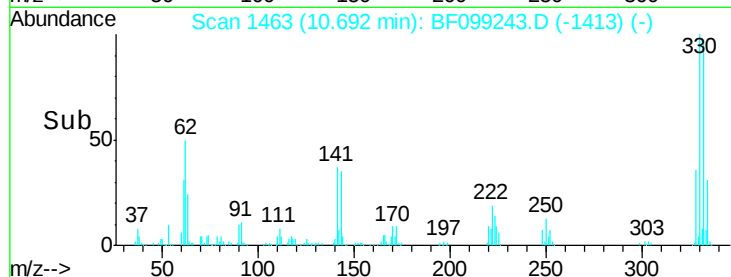
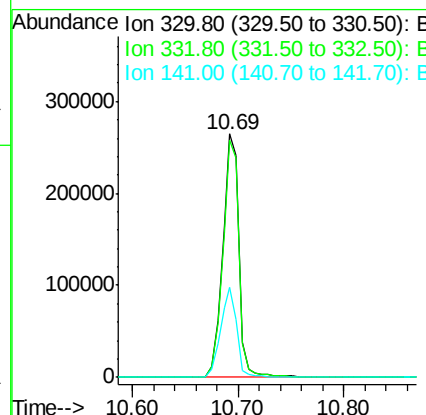
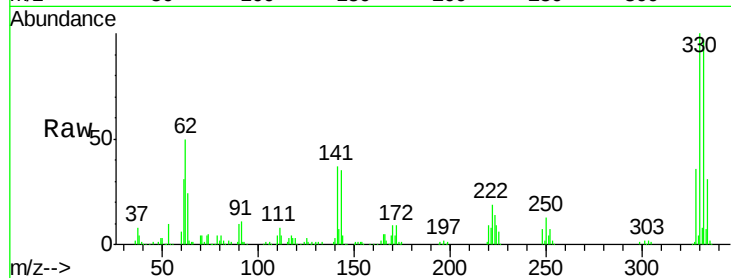




#41  
 2,4,6-Tribromophenol  
 Concen: 139.42 ng  
 RT: 10.69 min Scan# 1463  
 Delta R.T. -0.01 min  
 Lab File: BF099243.D  
 Acq: 8 Oct 2017 20:24

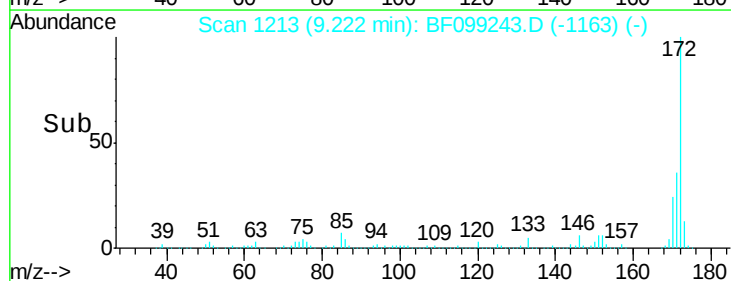
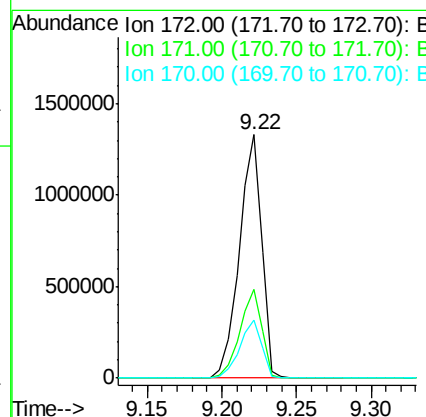
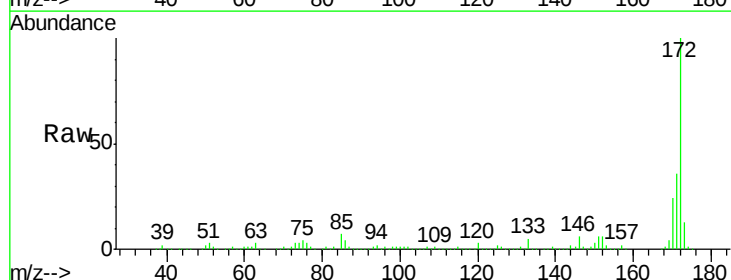
Instrument :  
 BNA\_F  
 ClientSampleId :

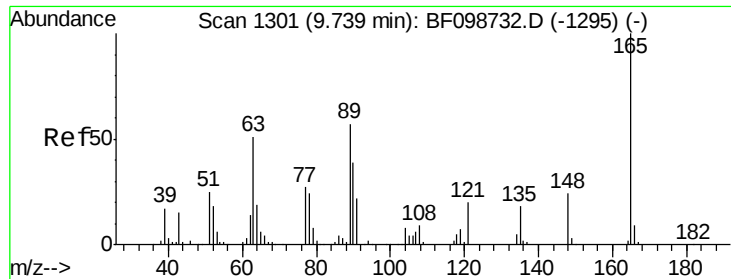
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 97.4  | 77.0  | 115.6 |
| 141     | 37.2  | 29.9  | 44.9  |



#44  
 2-Fluorobiphenyl  
 Concen: 92.51 ng  
 RT: 9.22 min Scan# 1213  
 Delta R.T. -0.01 min  
 Lab File: BF099243.D  
 Acq: 8 Oct 2017 20:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.4  | 29.7  | 44.5  |
| 170     | 23.6  | 19.6  | 29.4  |





#50

2,6-Dinitrotoluene

Concen: 7.72 ng

RT: 9.90 min Scan# 1328

Delta R.T. 0.21 min

Lab File: BF099243.D

Acq: 8 Oct 2017 20:24

Instrument :

BNA\_F

ClientSampleId :

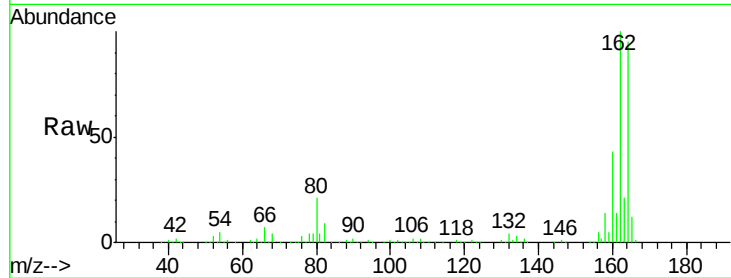
Tot Ion:165 Resp: 31978

Ion Ratio Lower Upper

165 100

63 1.3 44.7 67.1#

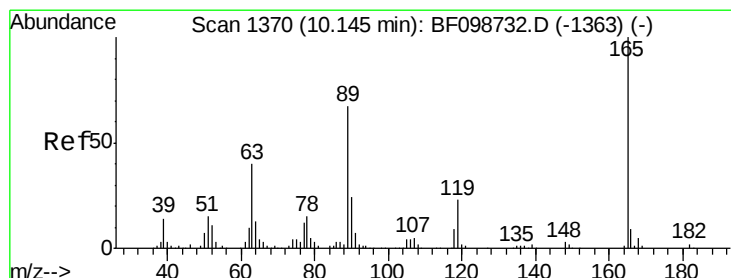
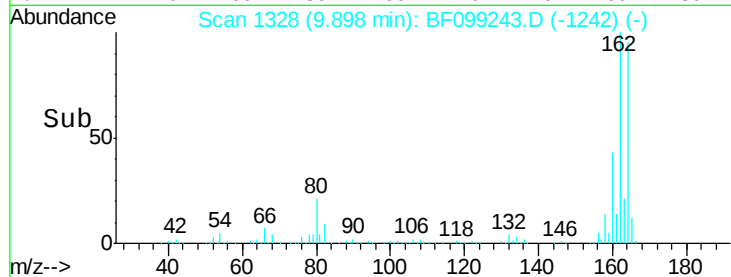
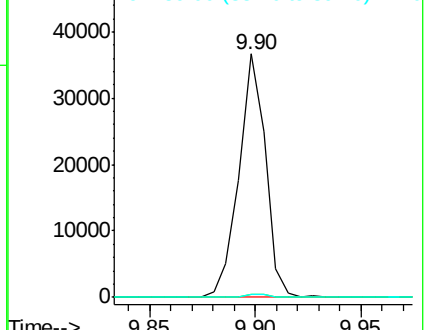
89 1.2 44.0 66.0#



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: 5.95 ng

RT: 9.90 min Scan# 1328

Delta R.T. -0.20 min

Lab File: BF099243.D

Acq: 8 Oct 2017 20:24

Tgt Ion:165 Resp: 31978

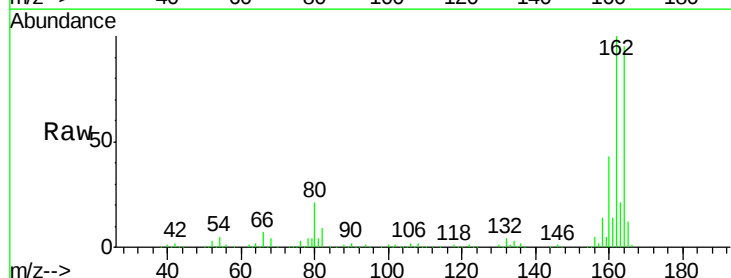
Ion Ratio Lower Upper

165 100

63 1.3 36.4 54.6#

89 1.2 57.8 86.6#

182 0.0 1.6 2.4#

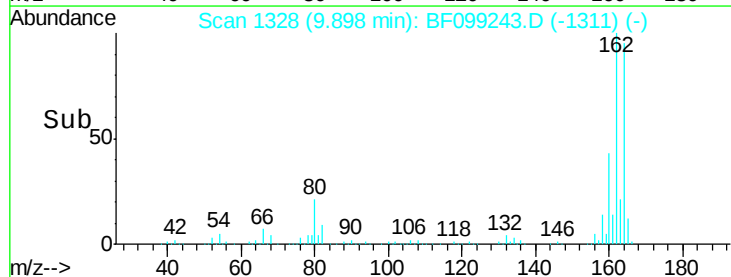
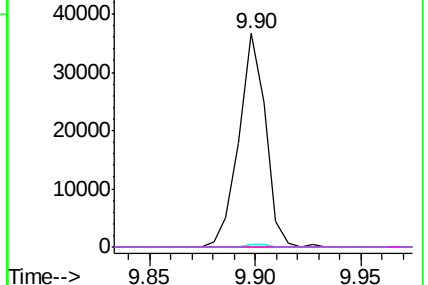


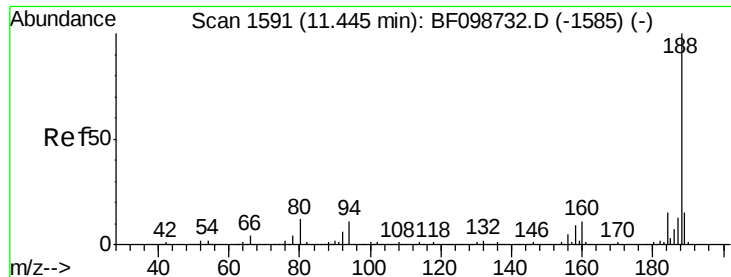
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E

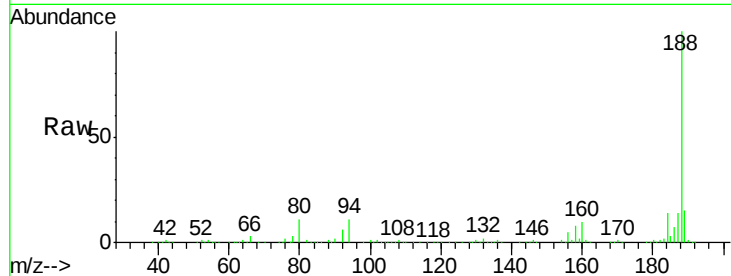




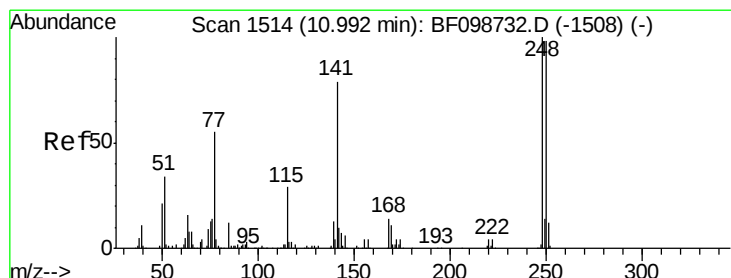
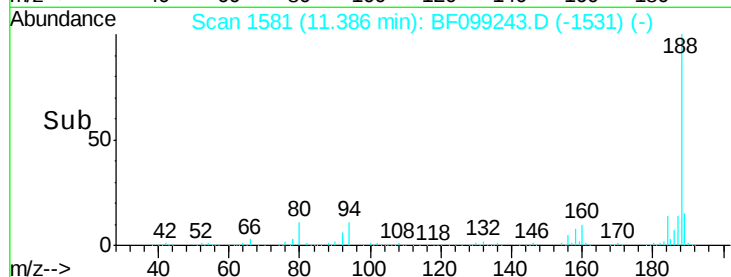
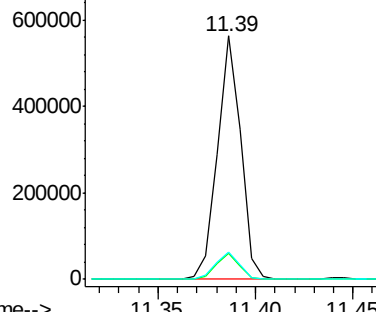
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.39 min Scan# 1581  
Delta R.T. -0.01 min  
Lab File: BF099243.D  
Acq: 8 Oct 2017 20:24

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:188 Resp: 465726  
Ion Ratio Lower Upper  
188 100  
94 10.6 8.5 12.7  
80 11.4 9.2 13.8

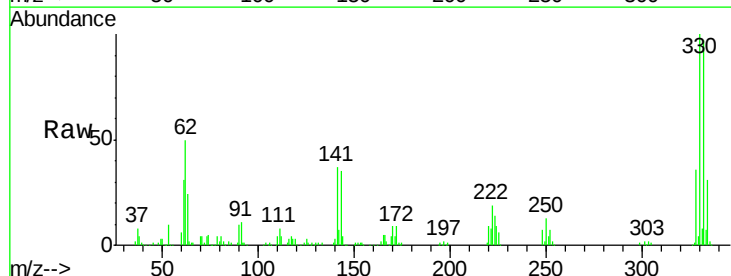


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF0  
Ion 80.00 (79.70 to 80.70): BF0

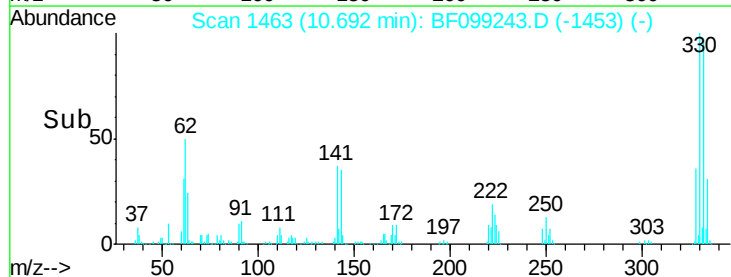
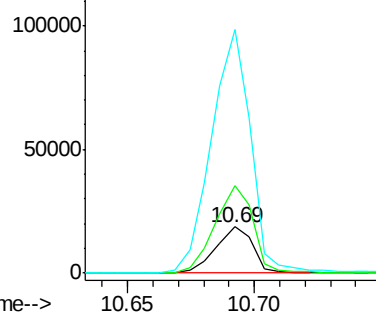


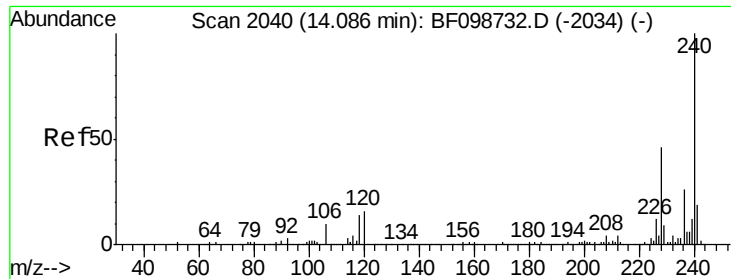
#66  
4-Bromophenyl-phenylether  
Concen: 4.15 ng  
RT: 10.69 min Scan# 1463  
Delta R.T. -0.24 min  
Lab File: BF099243.D  
Acq: 8 Oct 2017 20:24

Tgt Ion:248 Resp: 18934  
Ion Ratio Lower Upper  
248 100  
250 189.4 76.9 115.3#  
141 524.8 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

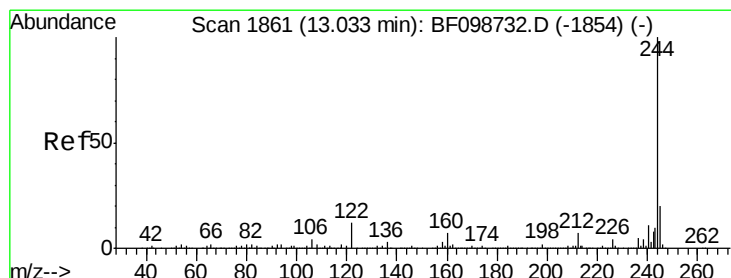
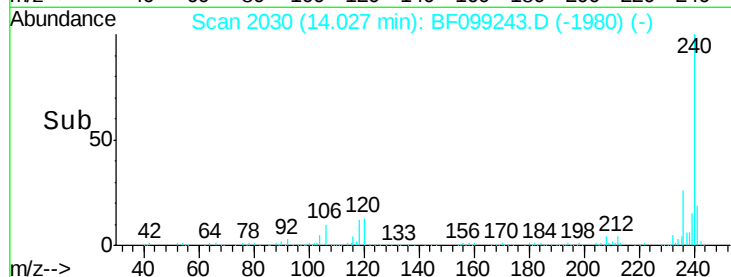
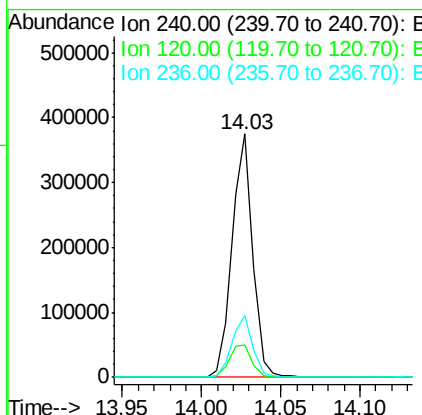
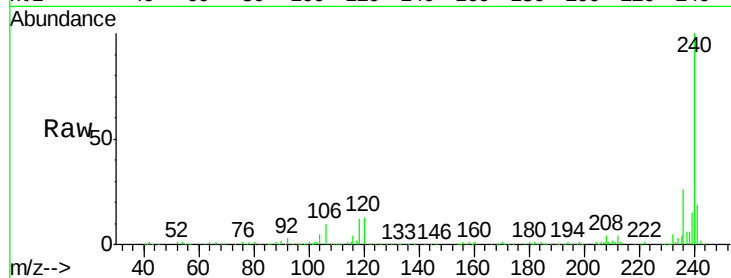




#75  
 Chrysene-d12  
 Concen: 20.00 ng  
 RT: 14.03 min Scan# 2030  
 Delta R.T. -0.01 min  
 Lab File: BF099243.D  
 Acq: 8 Oct 2017 20:24

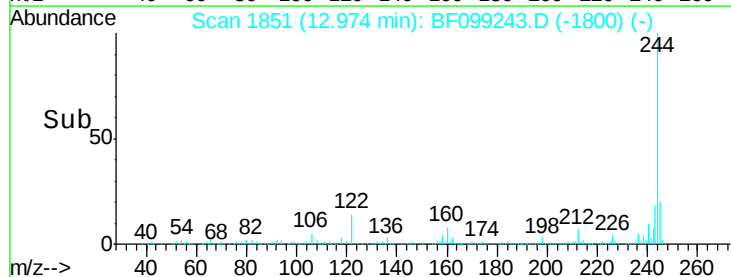
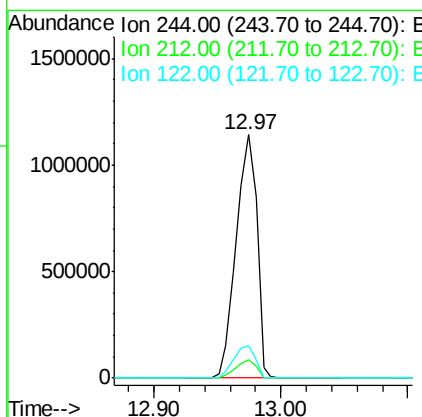
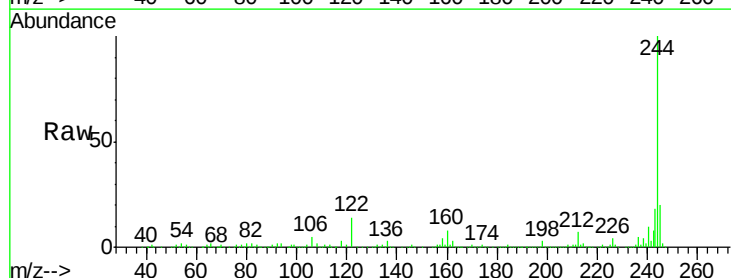
Instrument :  
 BNA\_F  
 ClientSampleId :

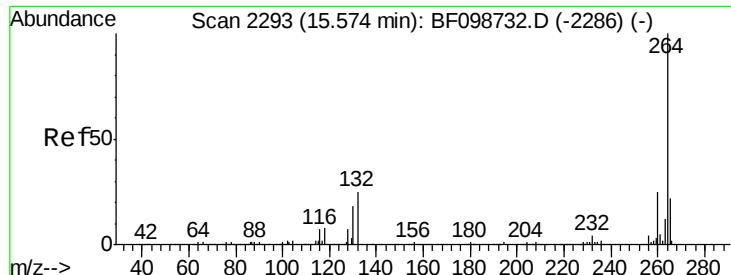
Tot Ion:240 Resp: 338628  
 Ion Ratio Lower Upper  
 240 100  
 120 13.3 9.5 14.3  
 236 25.6 20.7 31.1



#78  
 Terphenyl-d14  
 Concen: 86.30 ng  
 RT: 12.97 min Scan# 1851  
 Delta R.T. -0.00 min  
 Lab File: BF099243.D  
 Acq: 8 Oct 2017 20:24

Tgt Ion:244 Resp: 1285078  
 Ion Ratio Lower Upper  
 244 100  
 212 7.3 5.4 8.0  
 122 13.6 11.0 16.4

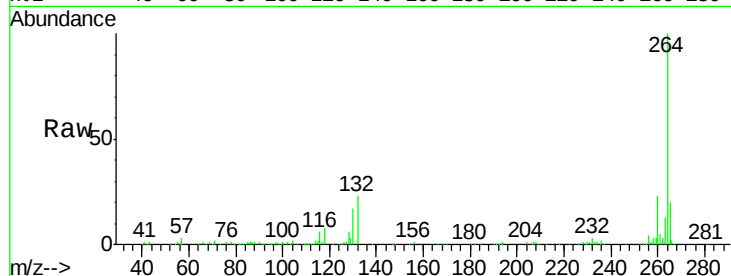




#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 15.50 min Scan# 2281  
Delta R.T. -0.00 min  
Lab File: BF099243.D  
Acq: 8 Oct 2017 20:24

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.2  | 19.2  | 28.8  |
| 265     | 20.4  | 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

