

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG041620\  
 Data File : BG045015.D  
 Acq On : 16 Apr 2020 20:50  
 Operator : CG/JU  
 Sample : L2284-10  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 TP-12-SA

Quant Time: Apr 17 04:38:54 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG041520.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Apr 15 17:57:00 2020  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.02  | 152  | 69087    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 10.83 | 136  | 302348   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 14.65 | 164  | 237128   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 17.40 | 188  | 561898   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 21.66 | 240  | 551536   | 20.00 | ng    | -0.01    |
| 87) Perylene-d12          | 24.85 | 264  | 599709   | 20.00 | ng    | -0.01    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 5) 2-Fluorophenol           | 5.59  | 112  | 327322   | 78.22 | ng    | 0.00     |
| 7) Phenol-d6                | 7.18  | 99   | 514984   | 82.83 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.17  | 82   | 362353   | 54.68 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 16.14 | 330  | 299978   | 81.89 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 13.28 | 172  | 924944   | 57.20 | ng    | 0.00     |
| 79) Terphenyl-d14           | 20.01 | 244  | 1611159  | 63.67 | ng    | 0.00     |

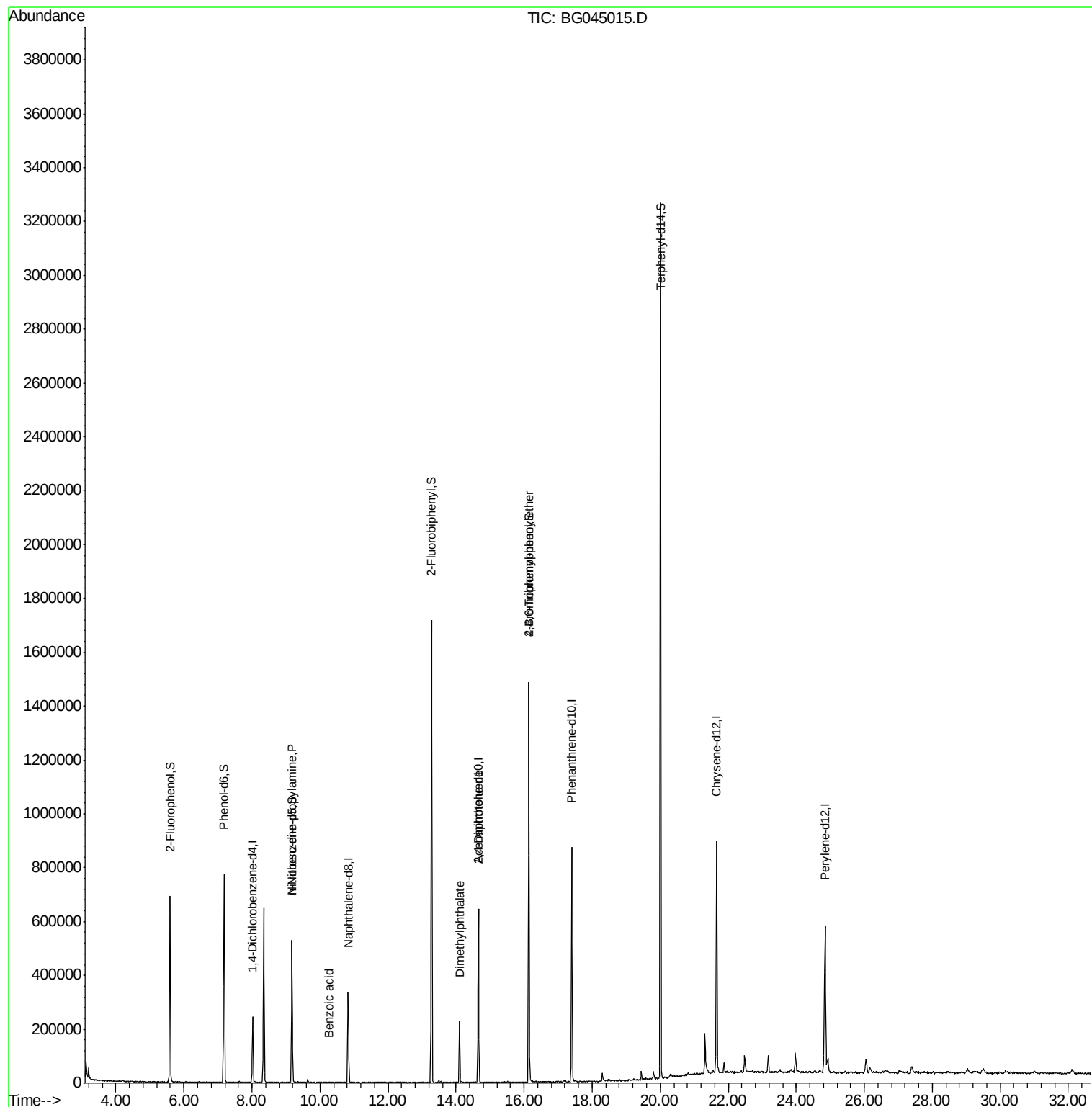
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 9) Benzaldehyde                | 7.18  | 77   | 1489     | Below Cal | #     | 22     |
| 19) n-Nitroso-di-n-propylamine | 9.17  | 70   | 46859    | 10.657 ng | #     | 81     |
| 32) Benzoic acid               | 10.27 | 122  | 54       | 6.386 ng  | #     | 1      |
| 50) Dimethylphthalate          | 14.10 | 163  | 153078   | 7.928 ng  | #     | 98     |
| 57) 2,4-Dinitrotoluene         | 14.65 | 165  | 30278    | 4.797 ng  | #     | 22     |
| 67) 4-Bromophenyl-phenylether  | 16.14 | 248  | 20727    | 2.859 ng  | #     | 1      |
| 69) Atrazine                   | 16.85 | 200  | 60       | Below Cal | #     | 35     |
| 74) Di-n-butylphthalate        | 18.36 | 149  | 747      | Below Cal | #     | 64     |
| 75) Fluoranthene               | 19.45 | 202  | 18039    | Below Cal | #     | 91     |
| 77) Benzidine                  | 20.01 | 184  | 28223    | Below Cal | #     | 91     |

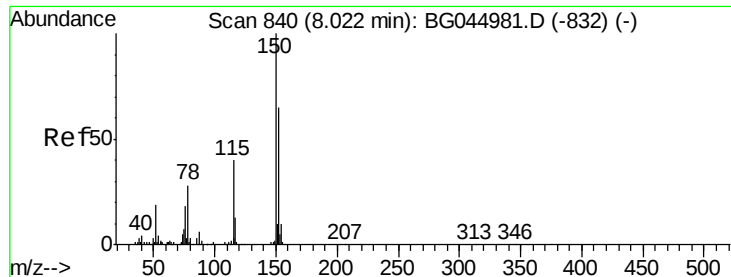
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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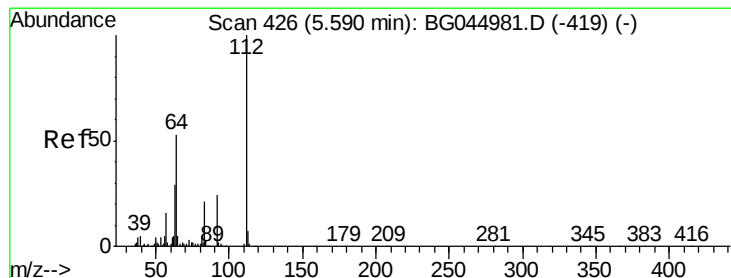
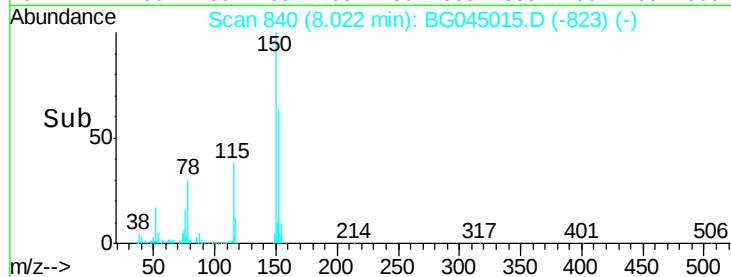
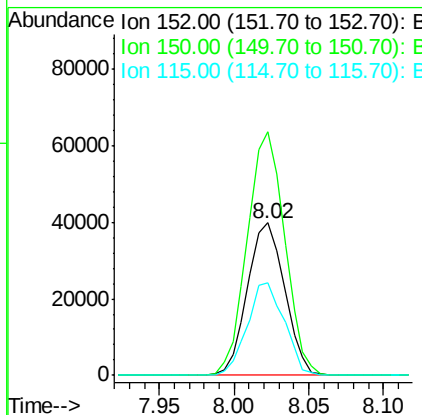
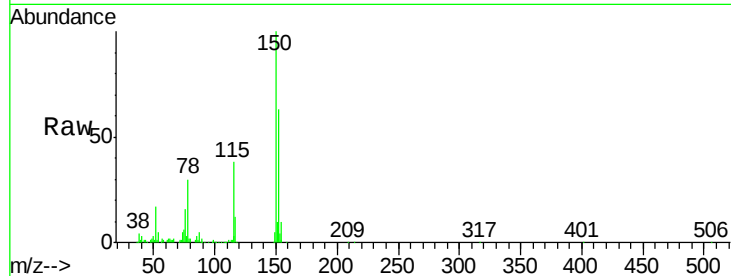


#1

1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 8.02 min Scan# 840  
 Delta R.T. 0.00 min  
 Lab File: BG045015.D  
 Acq: 16 Apr 2020 20:50

Instrument :  
 BNA\_G  
 ClientSampleId :  
 TP-12-SA

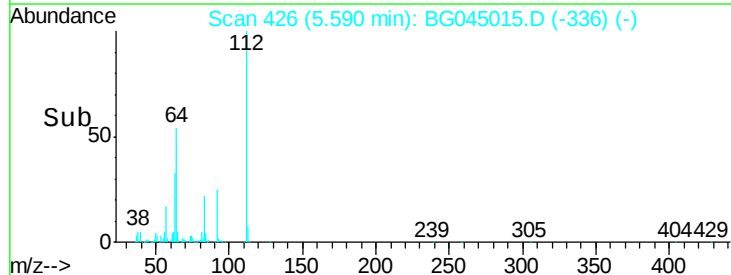
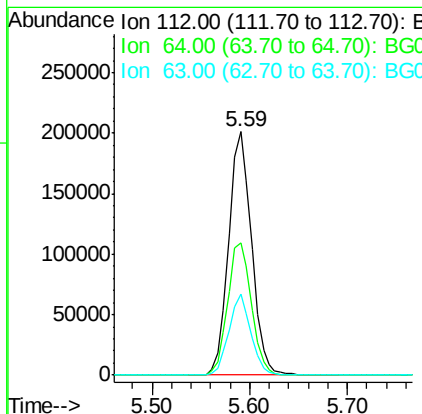
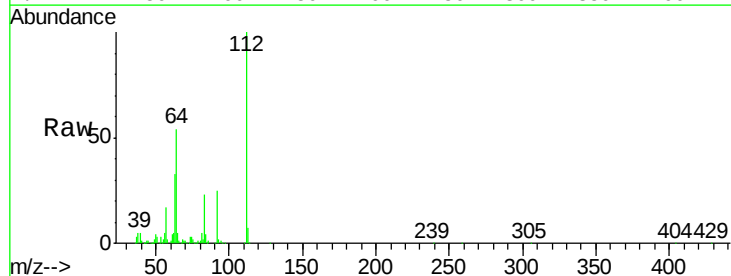
Tot Ion:152 Resp: 69087  
 Ion Ratio Lower Upper  
 152 100  
 150 159.7 123.6 185.4  
 115 60.7 49.1 73.7

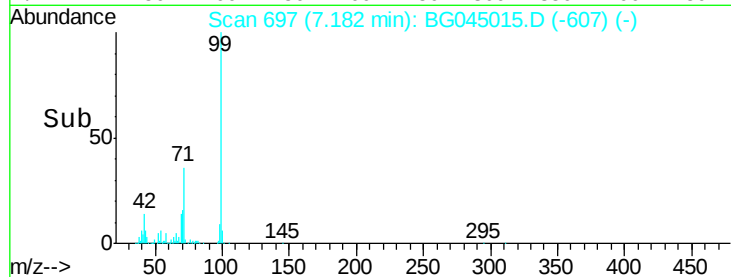
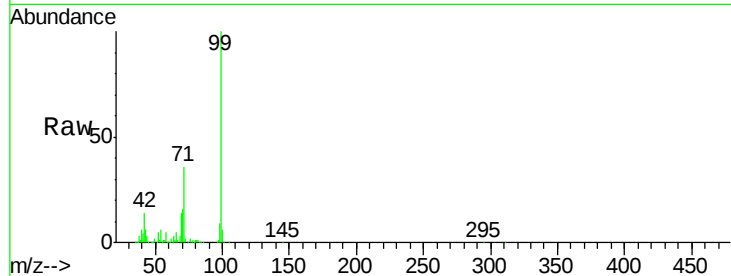
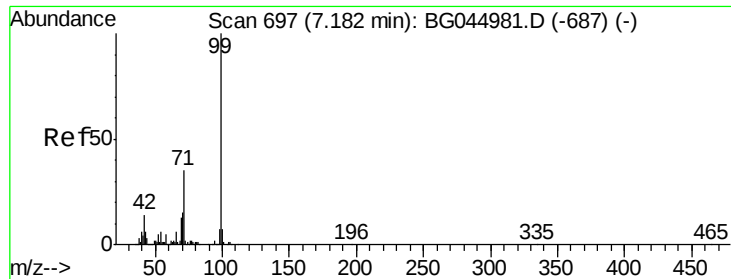


#5

2-Fluorophenol  
 Concen: 78.219 ng  
 RT: 5.59 min Scan# 426  
 Delta R.T. 0.00 min  
 Lab File: BG045015.D  
 Acq: 16 Apr 2020 20:50

Tgt Ion:112 Resp: 327322  
 Ion Ratio Lower Upper  
 112 100  
 64 54.1 42.4 63.6  
 63 33.5 23.1 34.7





#7

Phenol-d6

Concen: 82.829 ng

RT: 7.18 min Scan# 697

Delta R.T. 0.00 min

Lab File: BG045015.D

Acq: 16 Apr 2020 20:50

Instrument :

BNA\_G

ClientSampleId :

TP-12-SA

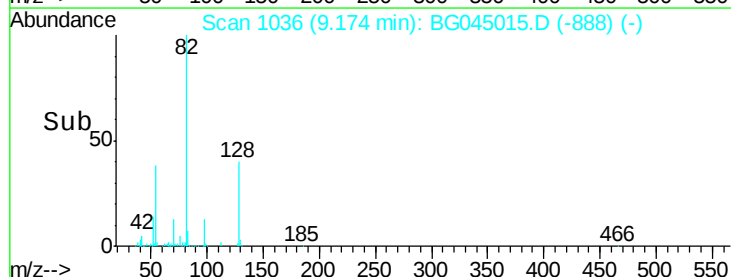
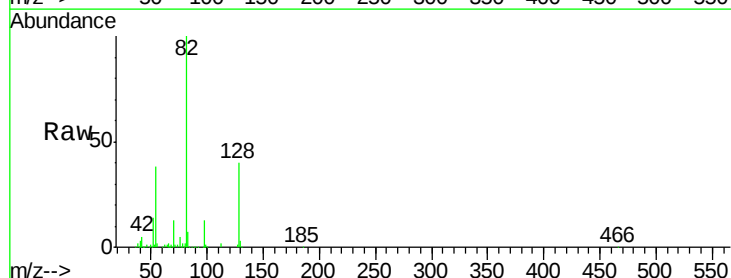
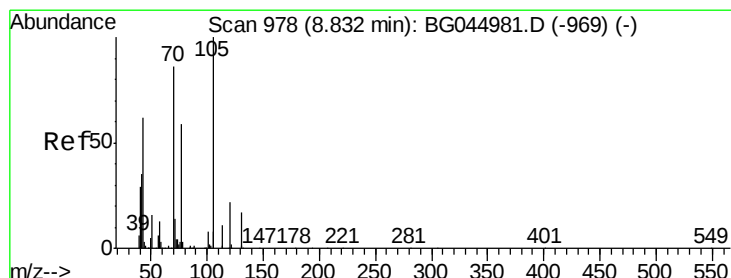
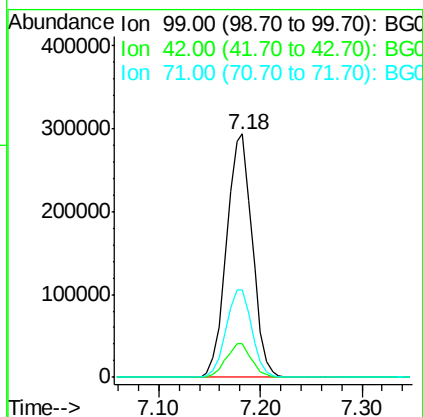
Tot Ion: 99 Resp: 514984

Ion Ratio Lower Upper

99 100

42 13.6 11.3 16.9

71 36.2 28.3 42.5



#19

n-Nitroso-di-n-propylamine

Concen: 10.657 ng

RT: 9.17 min Scan# 1036

Delta R.T. 0.34 min

Lab File: BG045015.D

Acq: 16 Apr 2020 20:50

Tgt Ion: 70 Resp: 46859

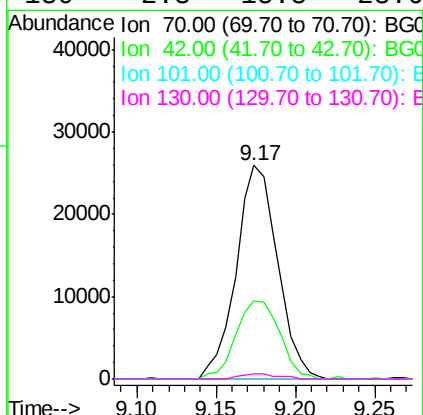
Ion Ratio Lower Upper

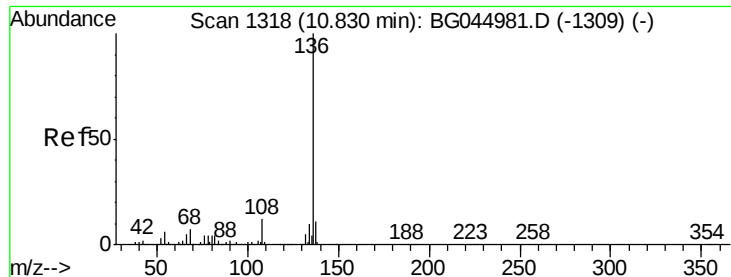
70 100

42 36.5 33.3 49.9

101 0.0 7.8 11.8#

130 2.3 15.8 23.6#

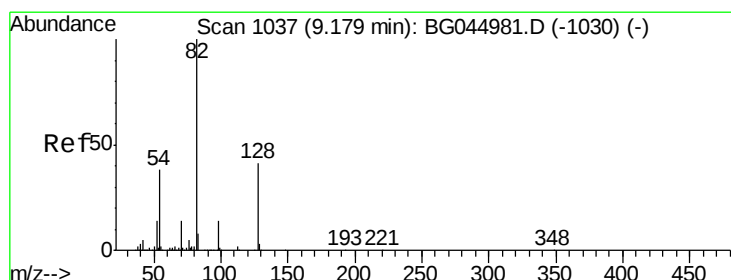
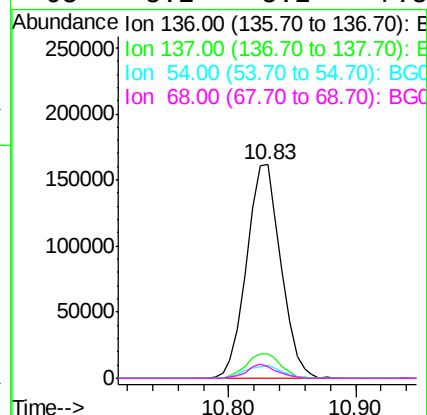
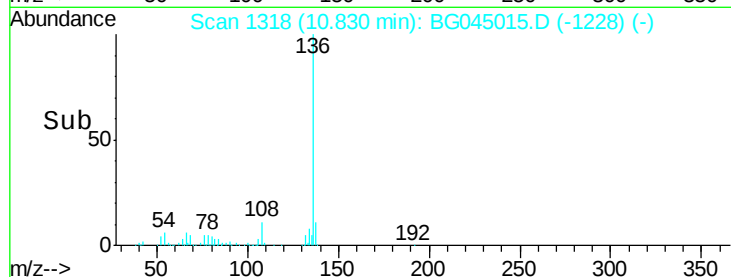
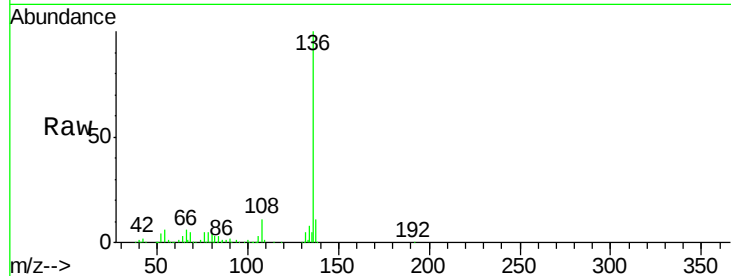




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.83 min Scan# 1318  
Delta R.T. 0.00 min  
Lab File: BG045015.D  
Acq: 16 Apr 2020 20:50

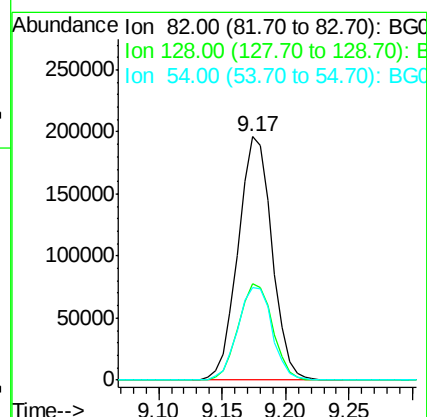
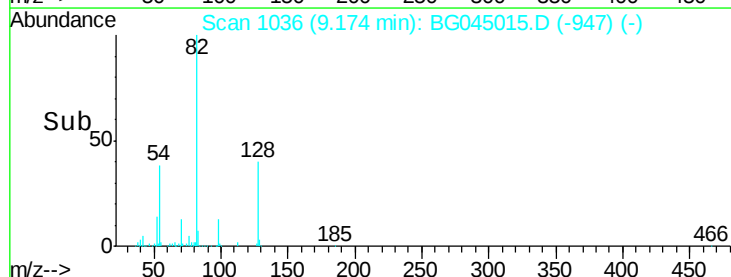
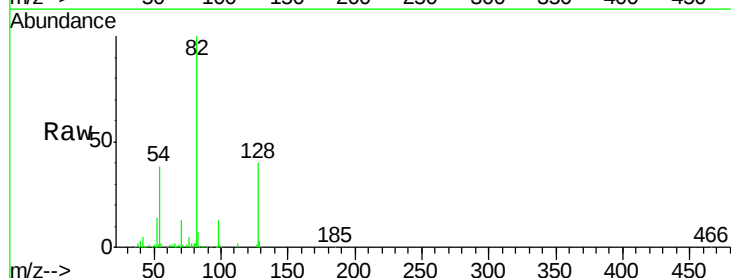
Instrument :  
BNA\_G  
ClientSampleId :  
TP-12-SA

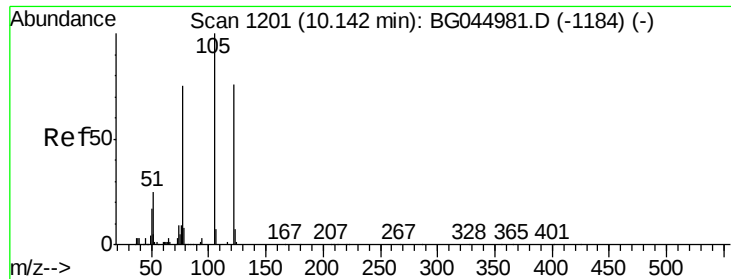
|             |       |        |
|-------------|-------|--------|
| Tot Ion:136 | Resp: | 302348 |
| Ion Ratio   | Lower | Upper  |
| 136 100     |       |        |
| 137 11.4    | 8.6   | 13.0   |
| 54 5.8      | 4.8   | 7.2    |
| 68 5.2      | 5.2   | 7.8#   |



#23  
Nitrobenzene-d5  
Concen: 54.684 ng  
RT: 9.17 min Scan# 1036  
Delta R.T. -0.01 min  
Lab File: BG045015.D  
Acq: 16 Apr 2020 20:50

|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion: 82 | Resp: | 362353 |
| Ion | Ratio   | Lower | Upper  |
| 82  | 100     |       |        |
| 128 | 39.7    | 33.0  | 49.4   |
| 54  | 38.1    | 30.4  | 45.6   |

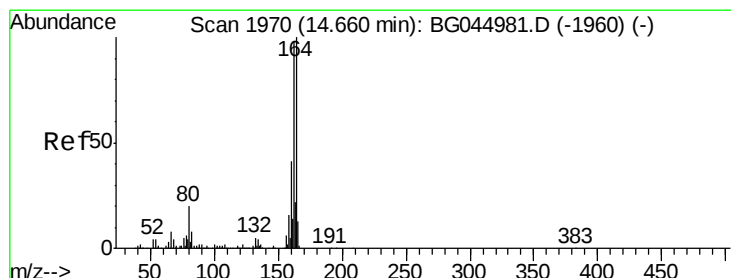
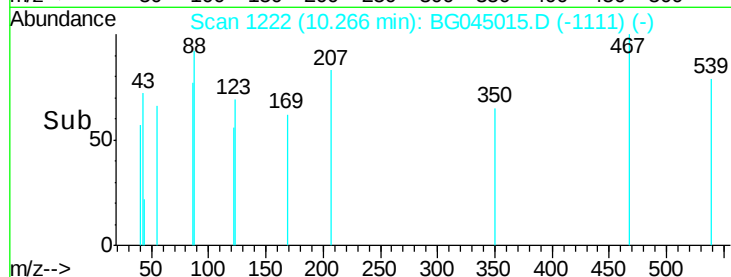
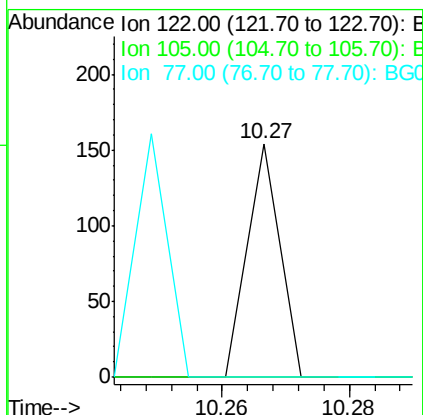
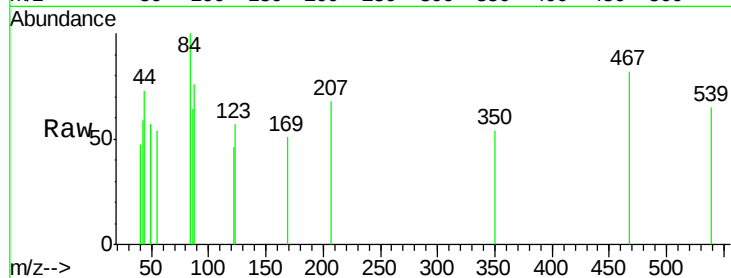




#32  
Benzoic acid  
Concen: 6.386 ng  
RT: 10.27 min Scan# 1222  
Delta R.T. 0.12 min  
Lab File: BG045015.D  
Acq: 16 Apr 2020 20:50

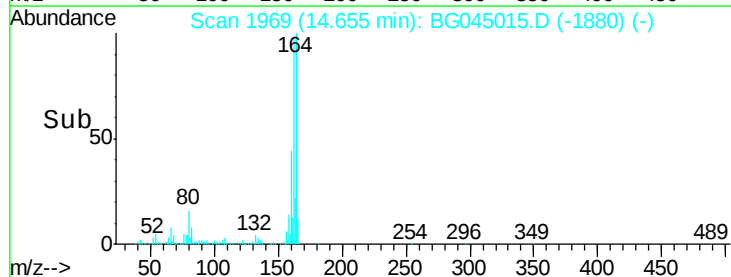
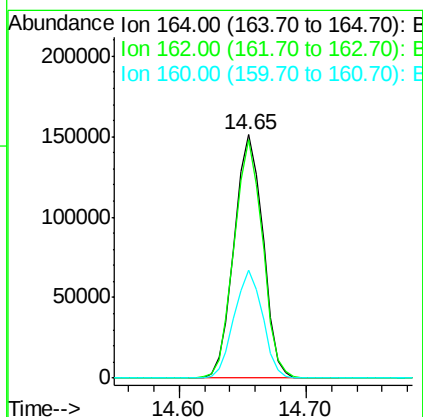
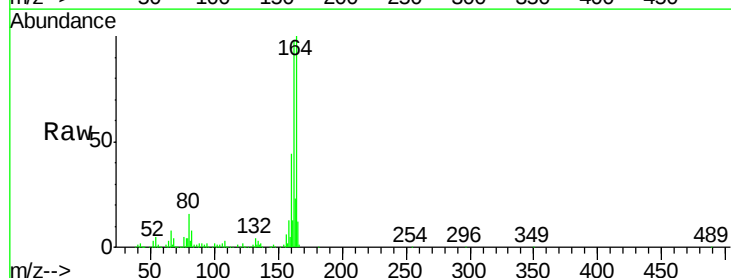
Instrument :  
BNA\_G  
ClientSampleId :  
TP-12-SA

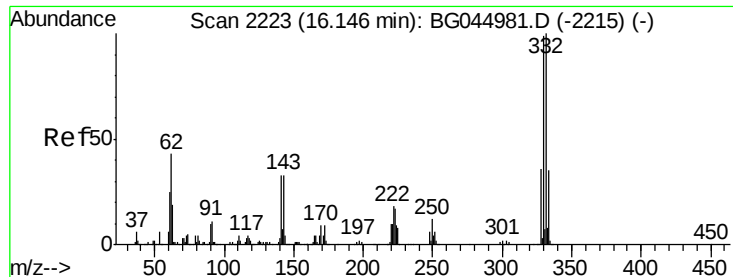
Tot Ion:122 Resp: 54  
Ion Ratio Lower Upper  
122 100  
105 0.0 108.4 148.4#  
77 0.0 78.8 118.8#



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.65 min Scan# 1969  
Delta R.T. -0.01 min  
Lab File: BG045015.D  
Acq: 16 Apr 2020 20:50

Tgt Ion:164 Resp: 237128  
Ion Ratio Lower Upper  
164 100  
162 98.1 78.7 118.1  
160 44.1 32.8 49.2

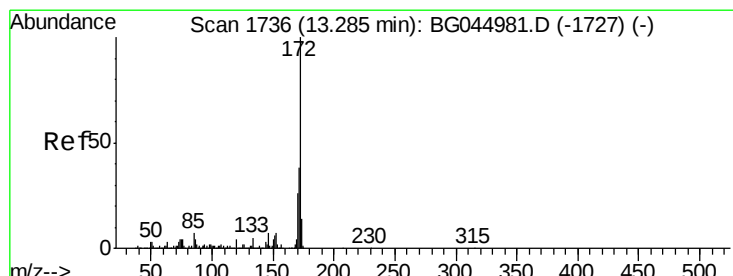
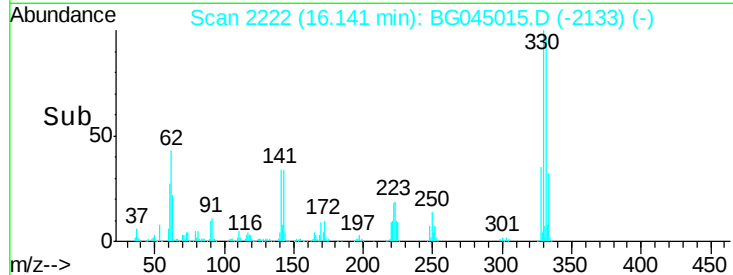
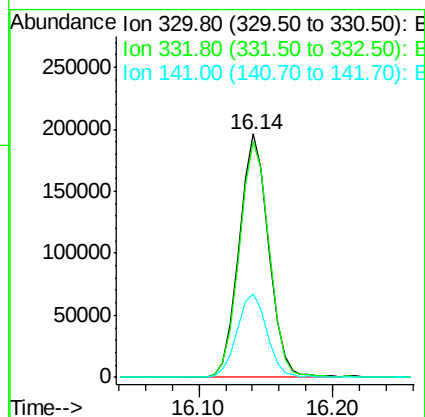
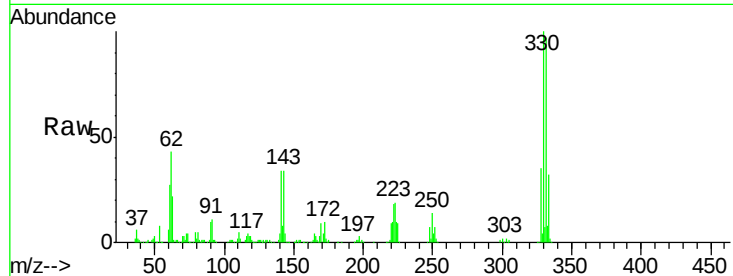




#42  
 2,4,6-Tribromophenol  
 Concen: 81.887 ng  
 RT: 16.14 min Scan# 2222  
 Delta R.T. -0.01 min  
 Lab File: BG045015.D  
 Acq: 16 Apr 2020 20:50

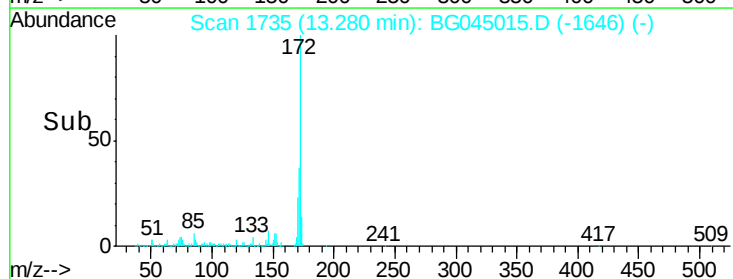
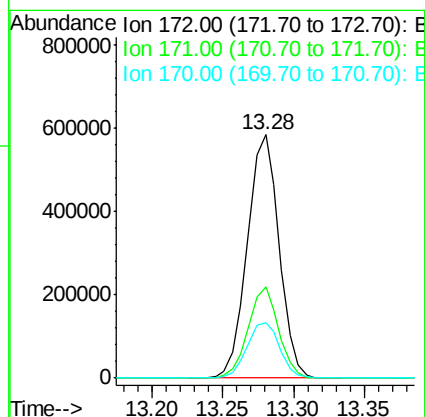
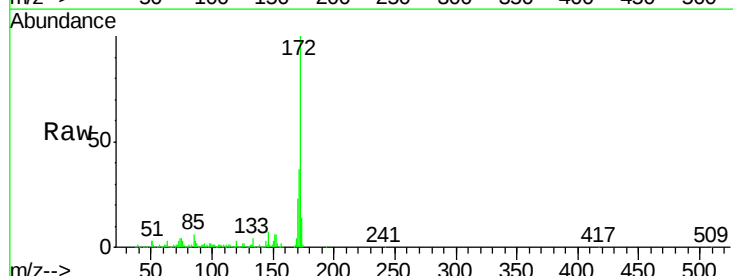
Instrument :  
 BNA\_G  
 ClientSampleId :  
 TP-12-SA

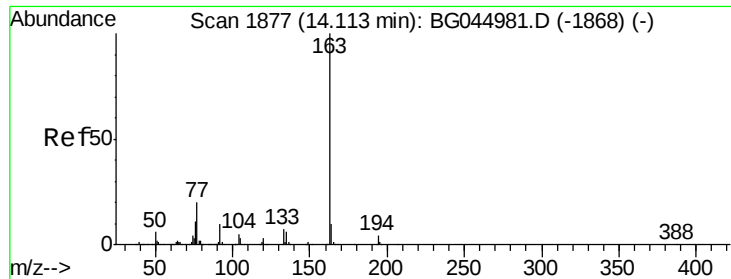
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 98.3  | 79.1  | 118.7 |
| 141     | 34.9  | 27.1  | 40.7  |



#45  
 2-Fluorobiphenyl  
 Concen: 57.195 ng  
 RT: 13.28 min Scan# 1735  
 Delta R.T. -0.01 min  
 Lab File: BG045015.D  
 Acq: 16 Apr 2020 20:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 37.4  | 30.6  | 46.0  |
| 170     | 23.0  | 20.5  | 30.7  |

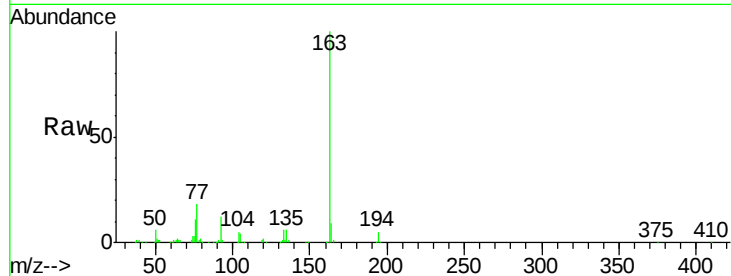




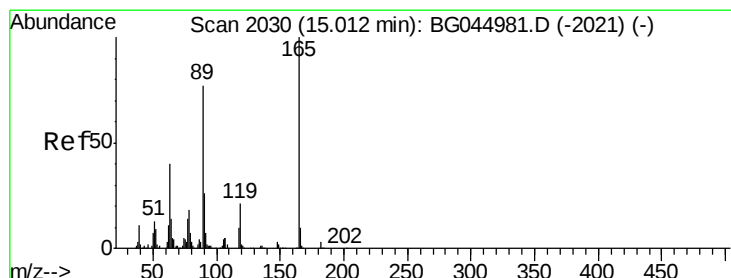
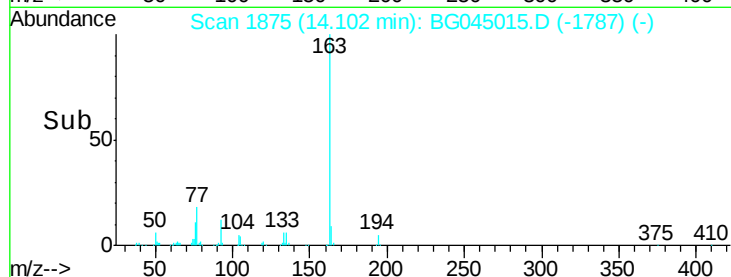
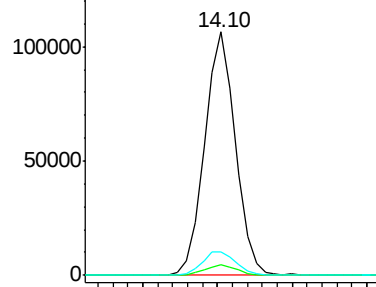
#50  
Dimethylphthalate  
Concen: 7.928 ng  
RT: 14.10 min Scan# 1875  
Delta R.T. -0.01 min  
Lab File: BG045015.D  
Acq: 16 Apr 2020 20:50

Instrument :  
BNA\_G  
ClientSampled :  
TP-12-SA

Tot Ion:163 Resp: 153078  
Ion Ratio Lower Upper  
163 100  
194 4.6 3.5 5.3  
164 9.5 8.2 12.4

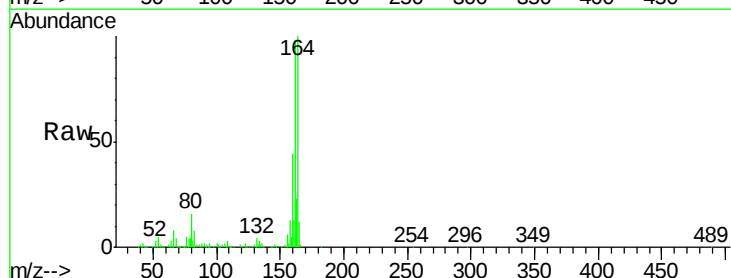


Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

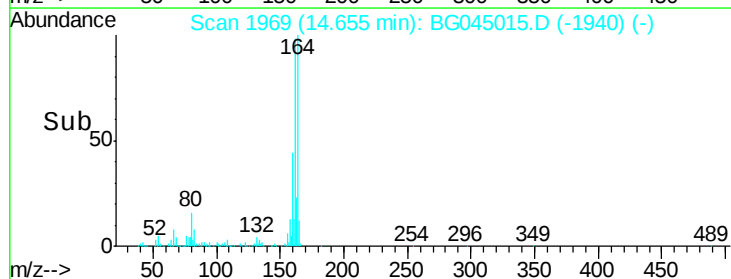
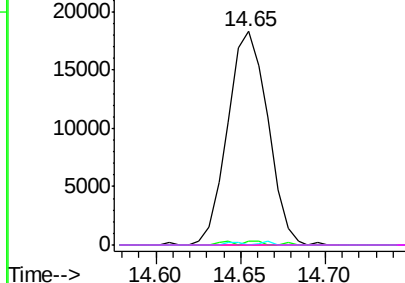


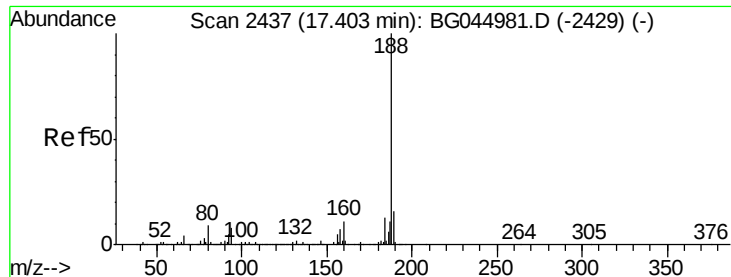
#57  
2,4-Dinitrotoluene  
Concen: 4.797 ng  
RT: 14.65 min Scan# 1969  
Delta R.T. -0.36 min  
Lab File: BG045015.D  
Acq: 16 Apr 2020 20:50

Tgt Ion:165 Resp: 30278  
Ion Ratio Lower Upper  
165 100  
63 1.6 32.2 48.2#  
89 0.0 61.7 92.5#  
182 0.0 2.0 3.0#



Abundance Ion 165.00 (164.70 to 165.70): E  
Ion 63.00 (62.70 to 63.70): BGC  
Ion 89.00 (88.70 to 89.70): BGC  
Ion 182.00 (181.70 to 182.70): E





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.40 min Scan# 2436

Delta R.T. -0.01 min

Lab File: BG045015.D

Acq: 16 Apr 2020 20:50

Instrument :

BNA\_G

ClientSampleId :

TP-12-SA

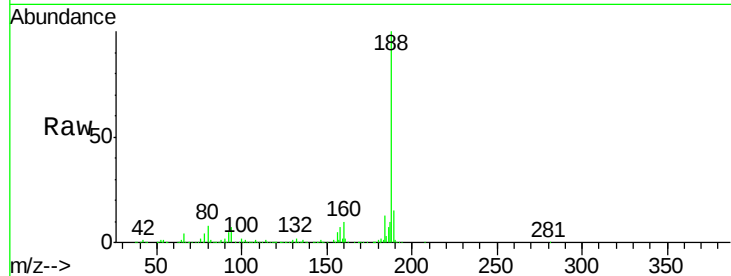
Tot Ion:188 Resp: 561898

Ion Ratio Lower Upper

188 100

94 7.1 6.2 9.4

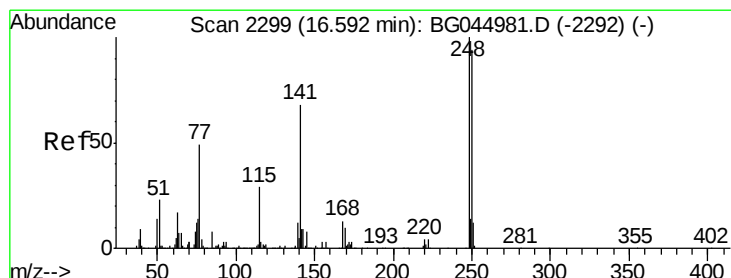
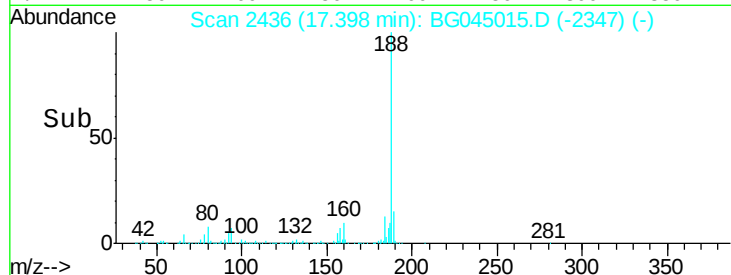
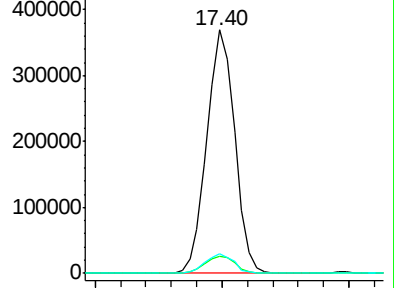
80 8.1 7.0 10.6



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BGC

Ion 80.00 (79.70 to 80.70): BGC



#67

4-Bromophenyl-phenylether

Concen: 2.859 ng

RT: 16.14 min Scan# 2222

Delta R.T. -0.45 min

Lab File: BG045015.D

Acq: 16 Apr 2020 20:50

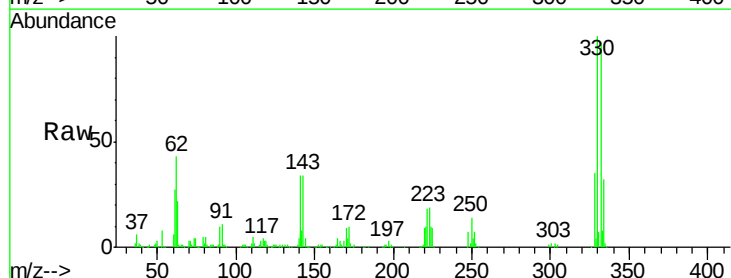
Tgt Ion:248 Resp: 20727

Ion Ratio Lower Upper

248 100

250 196.1 75.4 113.2#

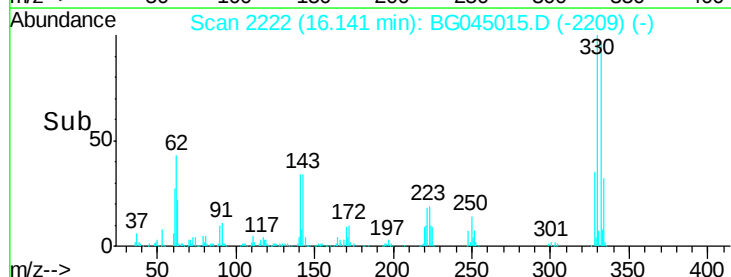
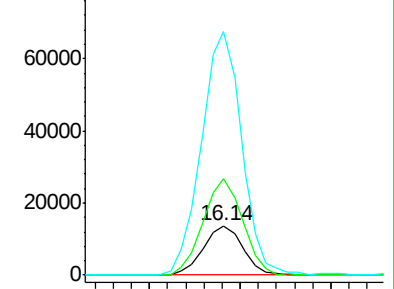
141 495.4 54.4 81.6#

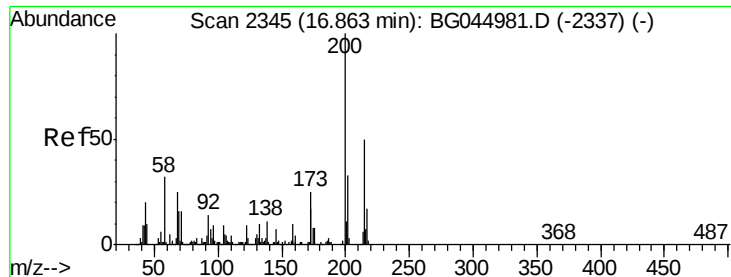


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#69

Atrazine

Concen: Below Cal

RT: 16.85 min Scan# 2342

Delta R.T. -0.02 min

Lab File: BG045015.D

Acq: 16 Apr 2020 20:50

Instrument :

BNA\_G

ClientSampleId :

TP-12-SA

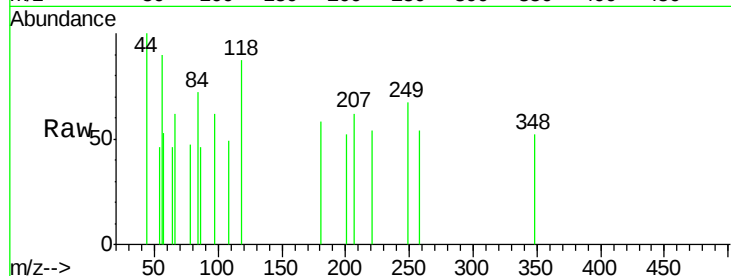
Tot Ion:200 Resp: 60

Ion Ratio Lower Upper

200 100

173 0.0 4.5 44.5#

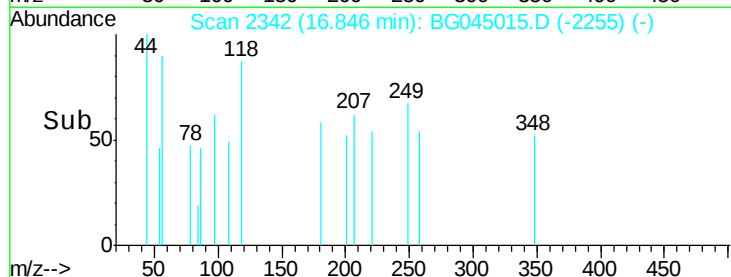
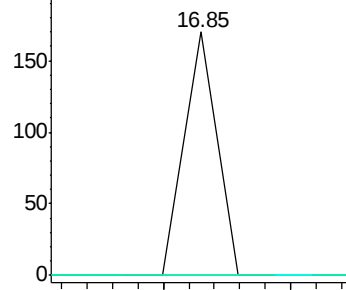
215 0.0 30.0 70.0#



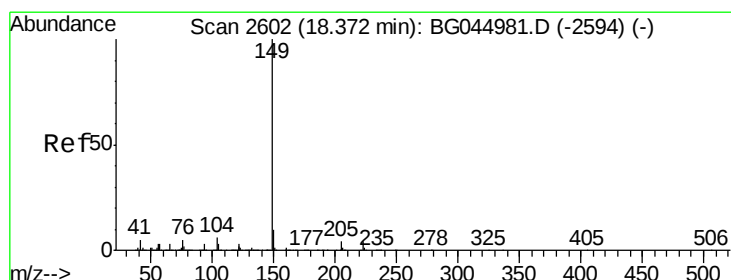
Abundance Ion 200.00 (199.70 to 200.70): E

Ion 173.00 (172.70 to 173.70): E

Ion 215.00 (214.70 to 215.70): E



Time-->



#74

Di-n-butylphthalate

Concen: Below Cal

RT: 18.36 min Scan# 2600

Delta R.T. -0.01 min

Lab File: BG045015.D

Acq: 16 Apr 2020 20:50

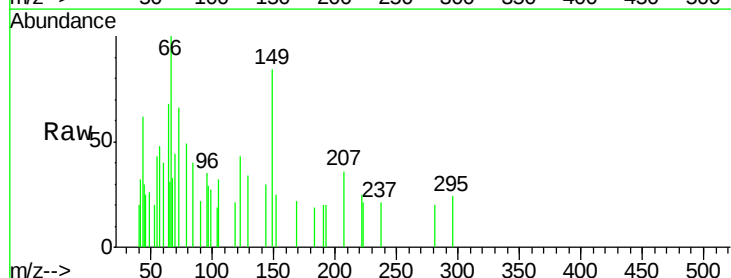
Tgt Ion:149 Resp: 747

Ion Ratio Lower Upper

149 100

150 0.0 8.2 12.2#

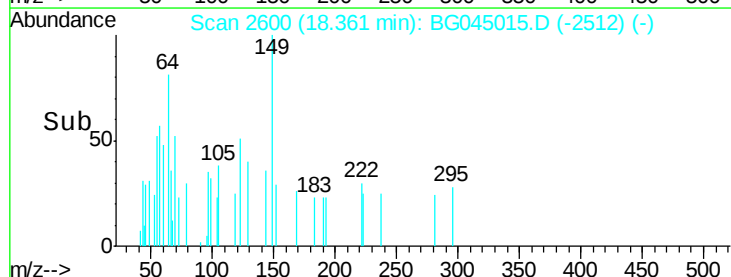
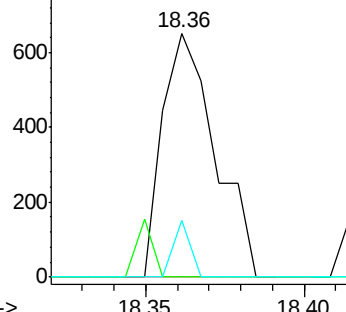
104 23.2 4.8 7.2#

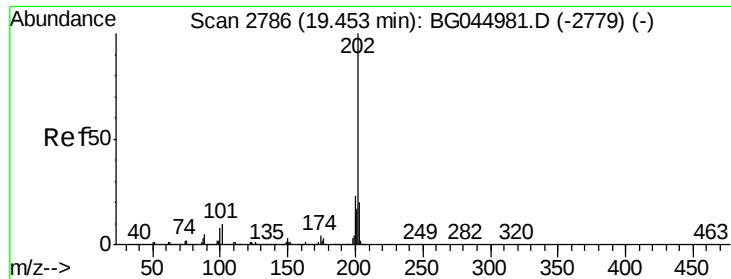


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E





#75

Fluoranthene

Concen: Below Cal

RT: 19.45 min Scan# 2785

Delta R.T. -0.00 min

Lab File: BG045015.D

Acq: 16 Apr 2020 20:50

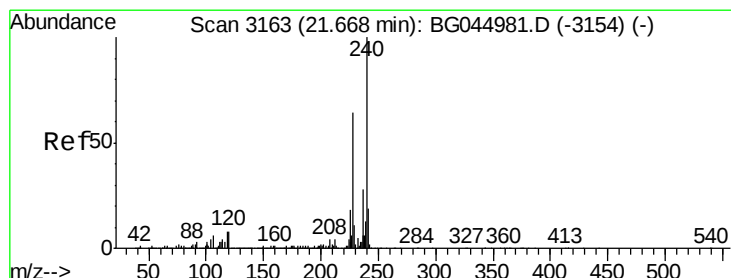
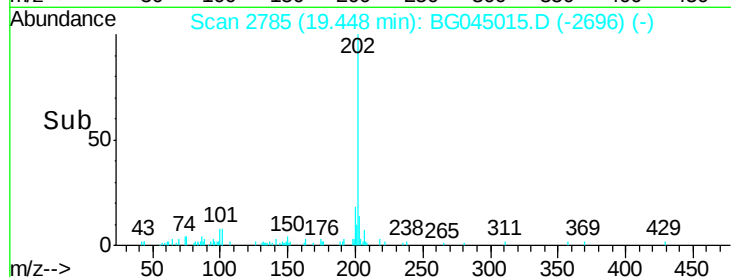
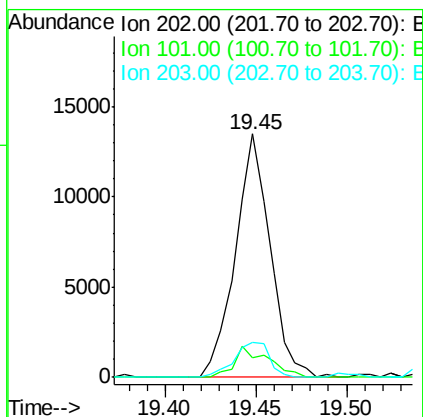
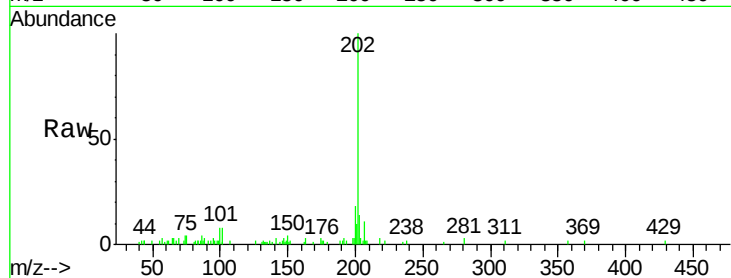
Instrument :

BNA\_G

ClientSampleId :

TP-12-SA

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 202   | Resp: | 18039 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 8.3   | 0.0   | 29.6  |
| 203       | 14.2  | 0.0   | 39.7  |



#76

Chrysene-d12

Concen: 20.000 ng

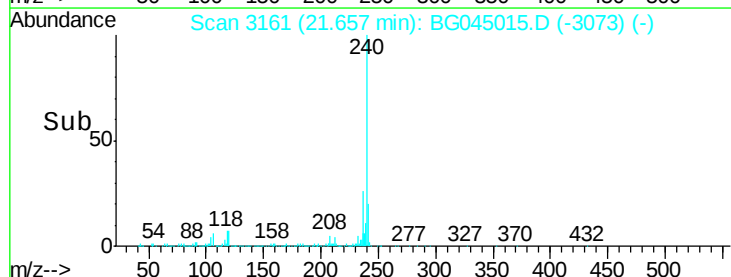
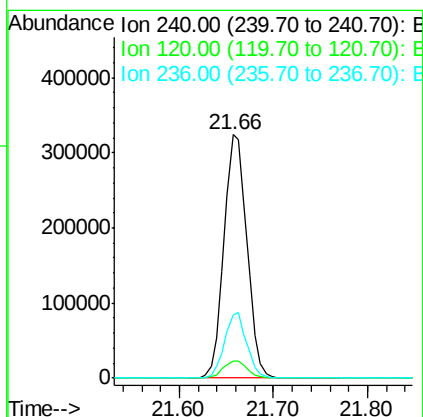
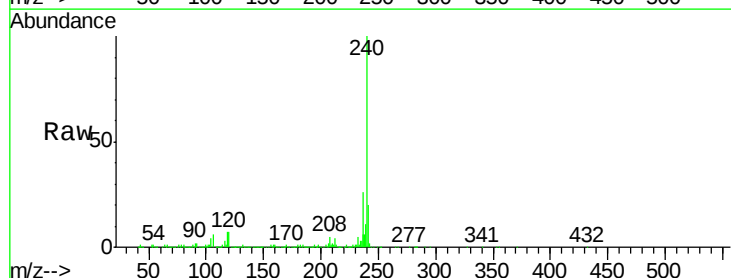
RT: 21.66 min Scan# 3161

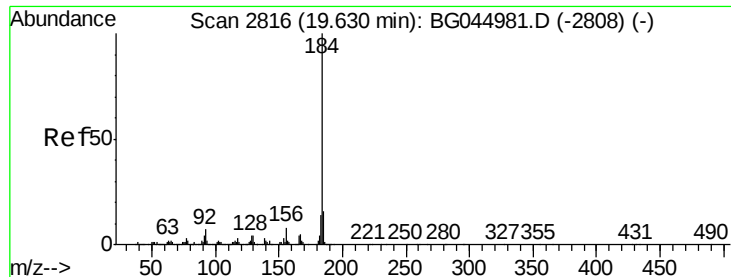
Delta R.T. -0.01 min

Lab File: BG045015.D

Acq: 16 Apr 2020 20:50

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 240   | Resp: | 551536 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 7.1   | 6.6   | 10.0   |
| 236       | 26.0  | 22.2  | 33.2   |





#77

Benzidine

Concen: Below Cal

RT: 20.01 min Scan# 2880

Delta R.T. 0.38 min

Lab File: BG045015.D

Acq: 16 Apr 2020 20:50

Instrument :

BNA\_G

ClientSampleId :

TP-12-SA

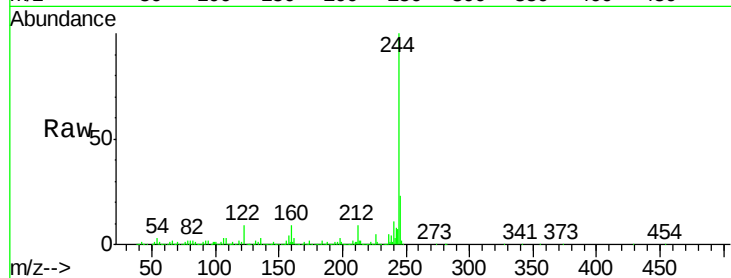
Tot Ion:184 Resp: 28223

Ion Ratio Lower Upper

184 100

185 17.8 12.6 19.0

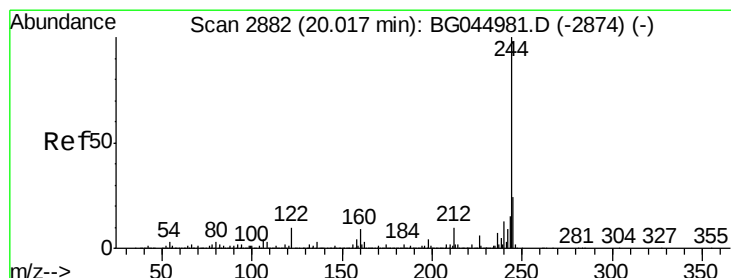
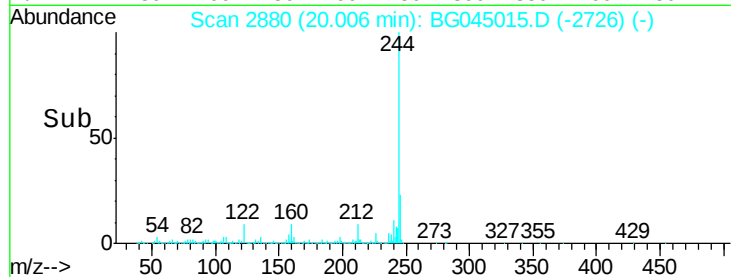
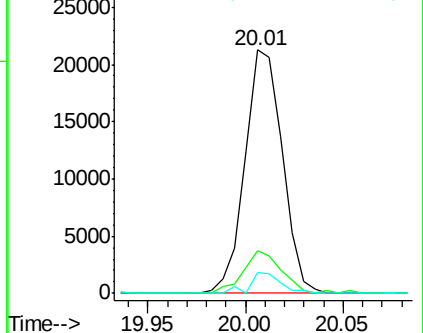
183 8.7 11.3 16.9#



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



#79

Terphenyl-d14

Concen: 63.670 ng

RT: 20.01 min Scan# 2881

Delta R.T. -0.01 min

Lab File: BG045015.D

Acq: 16 Apr 2020 20:50

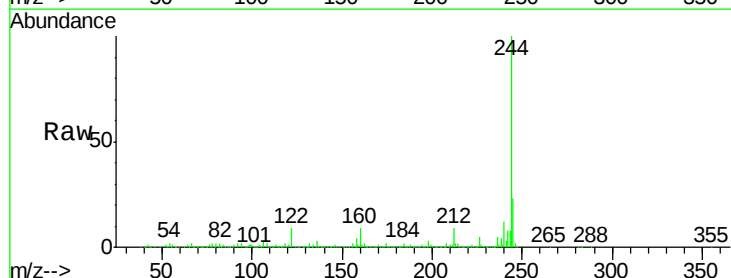
Tgt Ion:244 Resp: 1611159

Ion Ratio Lower Upper

244 100

212 9.3 7.9 11.9

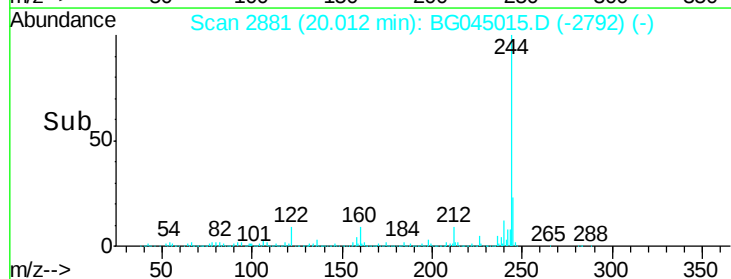
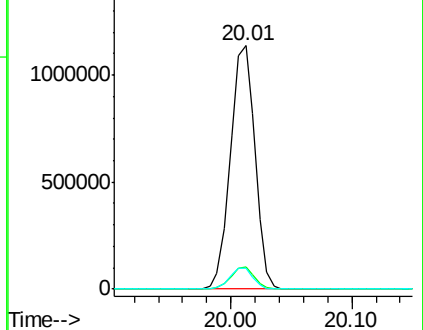
122 8.6 7.7 11.5

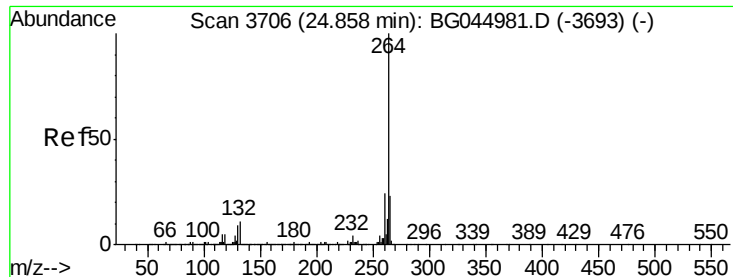


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

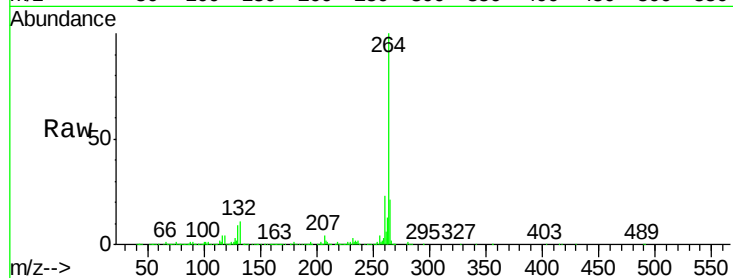




#87  
Pervlene-d12  
Concen: 20.000 ng  
RT: 24.85 min Scan# 3704  
Delta R.T. -0.01 min  
Lab File: BG045015.D  
Acq: 16 Apr 2020 20:50

Instrument :  
BNA\_G  
ClientSampleId :  
TP-12-SA

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.3  | 19.2  | 28.8  |
| 265     | 20.9  | 19.0  | 28.4  |



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

