

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG020420\  
 Data File : BG044299.D  
 Acq On : 5 Feb 2020 3:09  
 Operator : CG/JU  
 Sample : L1346-06DL 2X  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Feb 05 04:41:25 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG013020.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Jan 30 16:05:09 2020  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.92  | 152  | 80908    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 10.71 | 136  | 310921   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 14.55 | 164  | 226720   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 17.30 | 188  | 526738   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 21.54 | 240  | 522311   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 24.64 | 264  | 575363   | 20.00 | ng    | 0.00     |

|                             |       |     |         |       |    |      |
|-----------------------------|-------|-----|---------|-------|----|------|
| System Monitoring Compounds |       |     |         |       |    |      |
| 5) 2-Fluorophenol           | 5.49  | 112 | 348614  | 76.04 | ng | 0.00 |
| 7) Phenol-d6                | 7.08  | 99  | 457001  | 74.23 | ng | 0.00 |
| 23) Nitrobenzene-d5         | 9.07  | 82  | 278940  | 50.65 | ng | 0.00 |
| 42) 2,4,6-Tribromophenol    | 16.04 | 330 | 178940  | 67.23 | ng | 0.00 |
| 45) 2-Fluorobiphenyl        | 13.18 | 172 | 616160  | 45.51 | ng | 0.00 |
| 79) Terphenyl-d14           | 19.92 | 244 | 1160184 | 45.69 | ng | 0.00 |

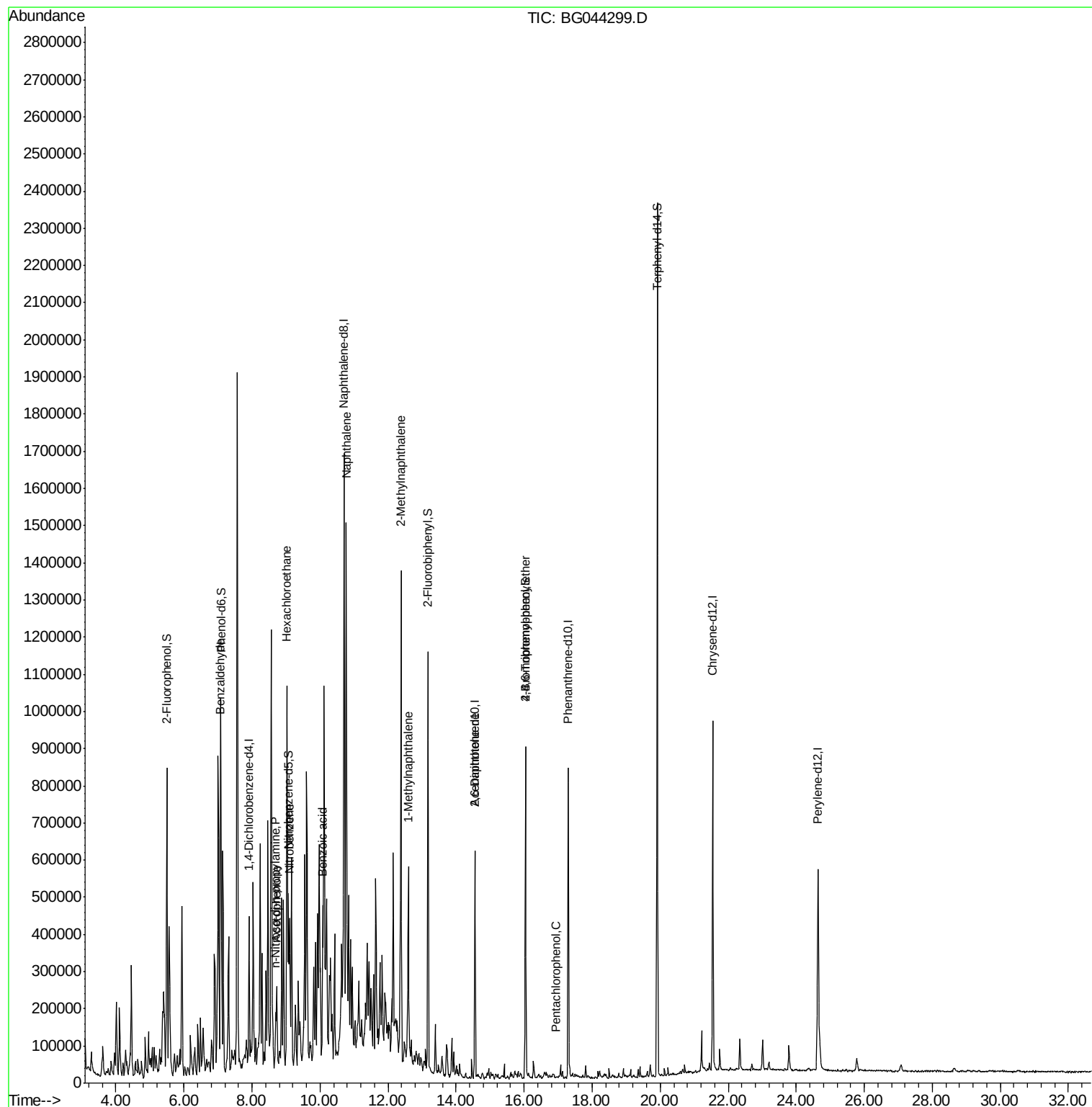
|                                |       |     |        |        |    |      |
|--------------------------------|-------|-----|--------|--------|----|------|
| Target Compounds               |       |     |        | Qvalue |    |      |
| 9) Benzaldehyde                | 7.07  | 77  | 30872  | 8.805  | ng | # 1  |
| 18) Hexachloroethane           | 9.03  | 117 | 115224 | 51.535 | ng | # 1  |
| 19) n-Nitroso-di-n-propylamine | 8.69  | 70  | 8904   | 2.170  | ng | # 65 |
| 22) Acetophenone               | 8.73  | 105 | 142753 | 18.873 | ng | # 57 |
| 24) Nitrobenzene               | 9.10  | 77  | 12967  | 2.412  | ng | # 11 |
| 31) Naphthalene                | 10.77 | 128 | 856176 | 56.757 | ng | # 98 |
| 32) Benzoic acid               | 10.09 | 122 | 154    | 14.213 | ng | # 1  |
| 37) 2-Methylnaphthalene        | 12.38 | 142 | 628456 | 56.111 | ng | # 99 |
| 38) 1-Methylnaphthalene        | 12.59 | 142 | 247800 | 23.467 | ng | # 99 |
| 51) 2,6-Dinitrotoluene         | 14.55 | 165 | 31399  | 8.641  | ng | # 30 |
| 67) 4-Bromophenyl-phenylether  | 16.04 | 248 | 12323  | 2.147  | ng | # 1  |
| 70) Pentachlorophenol          | 16.92 | 266 | 260    | 3.219  | ng | # 1  |

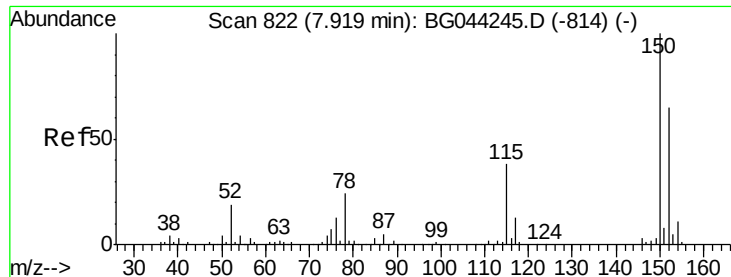
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
BNA\_G  
ClientSampleId :

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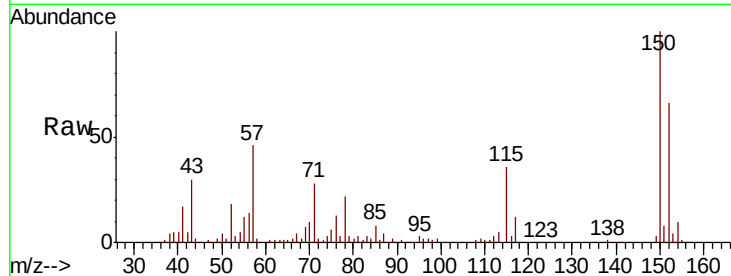


#1

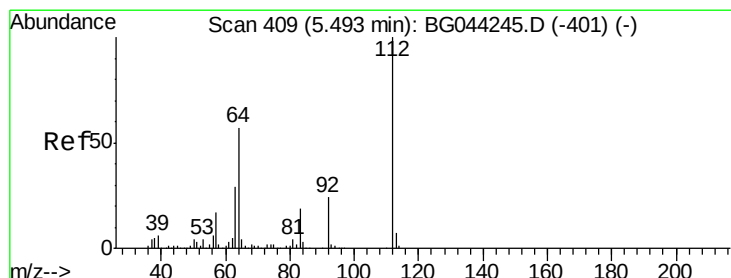
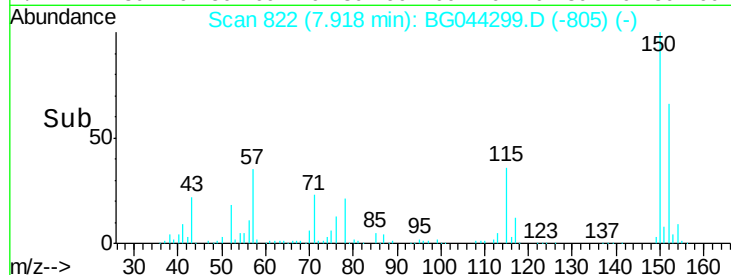
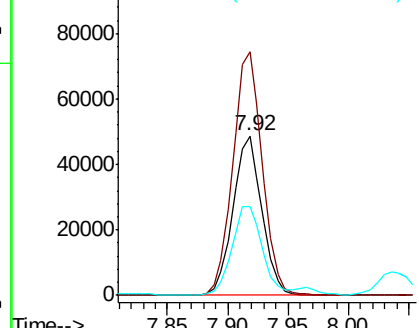
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.92 min Scan# 822  
Delta R.T. -0.00 min  
Lab File: BG044299.D  
Acq: 5 Feb 2020 3:09

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 152.7 | 122.6 | 183.8 |
| 115     | 55.3  | 46.0  | 69.0  |



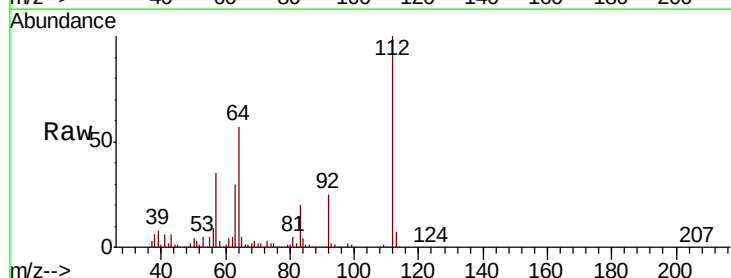
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



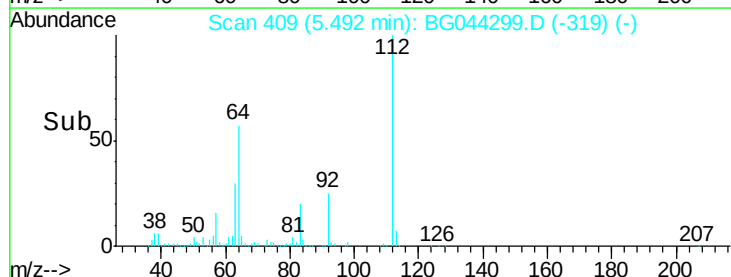
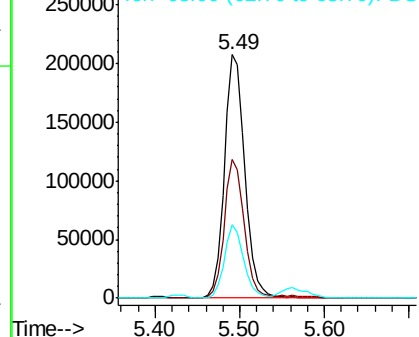
#5

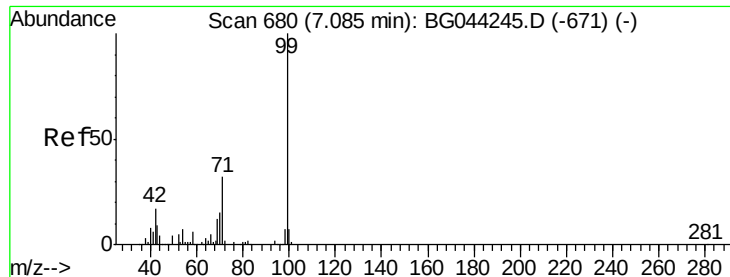
2-Fluorophenol  
Concen: 76.043 ng  
RT: 5.49 min Scan# 409  
Delta R.T. -0.00 min  
Lab File: BG044299.D  
Acq: 5 Feb 2020 3:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 57.2  | 45.4  | 68.2  |
| 63      | 29.9  | 22.9  | 34.3  |



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BG0  
Ion 63.00 (62.70 to 63.70): BG0





#7

Phenol-d6

Concen: 74.234 ng

RT: 7.08 min Scan# 680

Delta R.T. -0.00 min

Lab File: BG044299.D

Acq: 5 Feb 2020 3:09

Instrument :

BNA\_G

ClientSampleId :

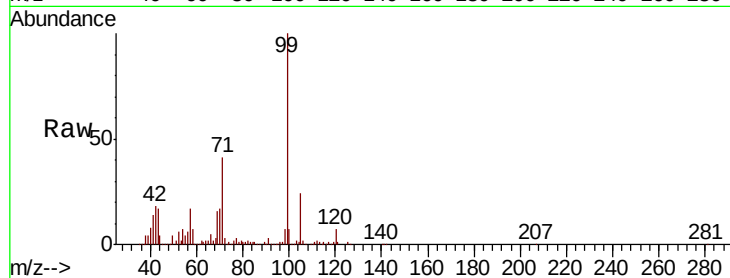
Tot Ion: 99 Resp: 457001

Ion Ratio Lower Upper

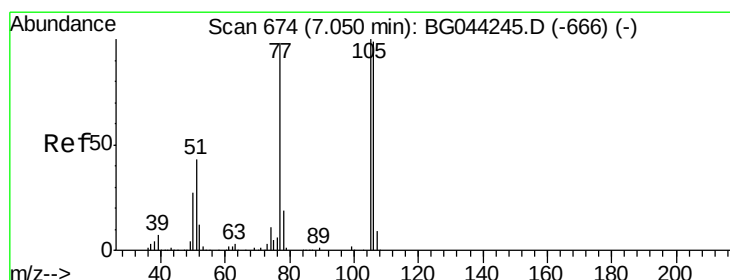
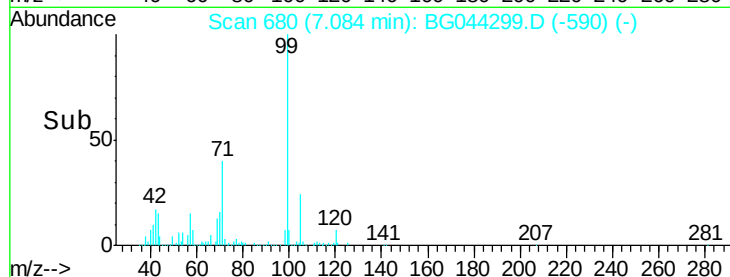
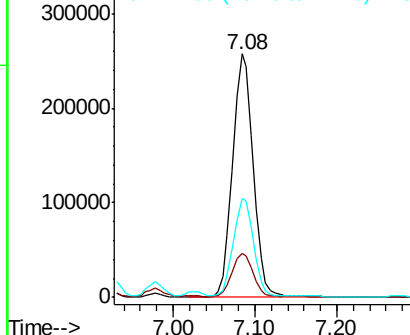
99 100

42 18.0 13.8 20.6

71 40.7 25.5 38.3#



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



#9

Benzaldehyde

Concen: 8.805 ng

RT: 7.07 min Scan# 677

Delta R.T. 0.02 min

Lab File: BG044299.D

Acq: 5 Feb 2020 3:09

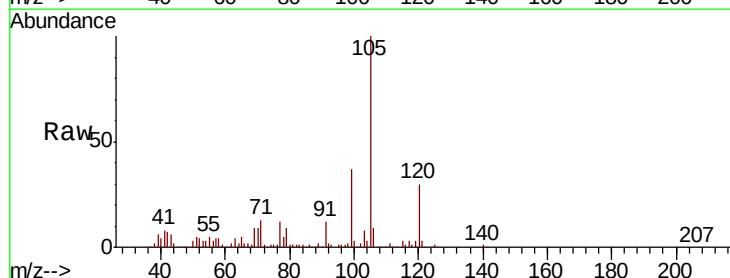
Tgt Ion: 77 Resp: 30872

Ion Ratio Lower Upper

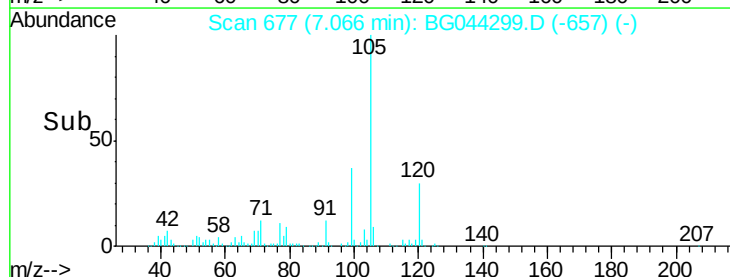
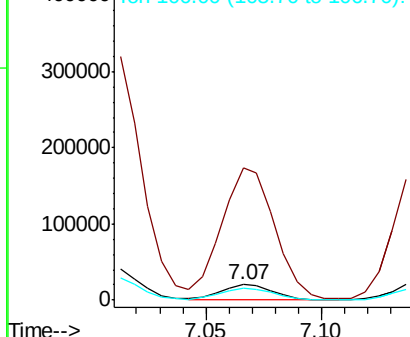
77 100

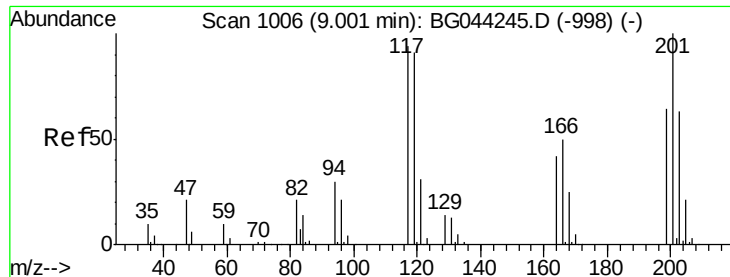
105 855.7 82.0 122.0#

106 76.5 80.7 120.7#



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

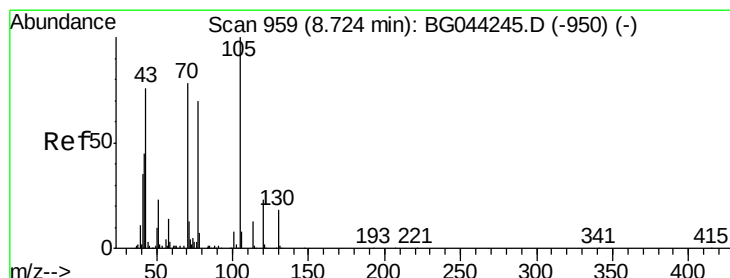
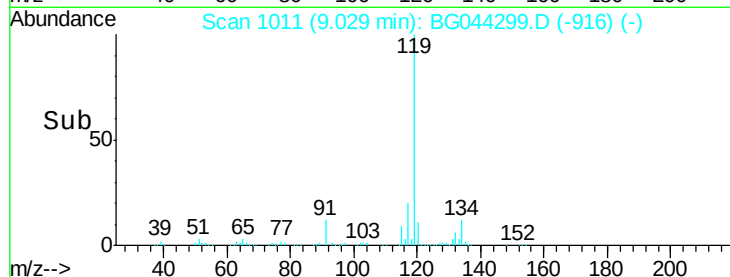
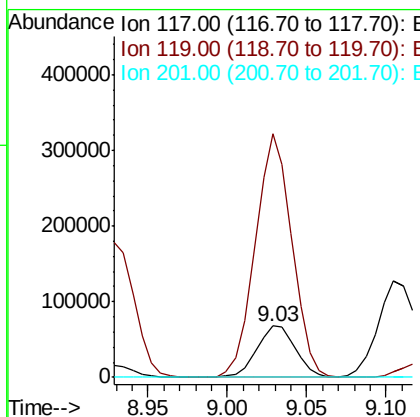
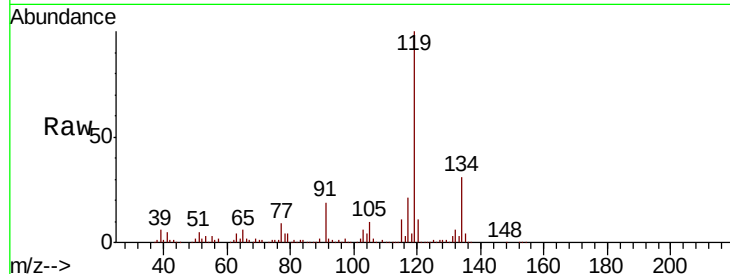




#18  
Hexachloroethane  
Concen: 51.535 ng  
RT: 9.03 min Scan# 1011  
Delta R.T. 0.03 min  
Lab File: BG044299.D  
Acq: 5 Feb 2020 3:09

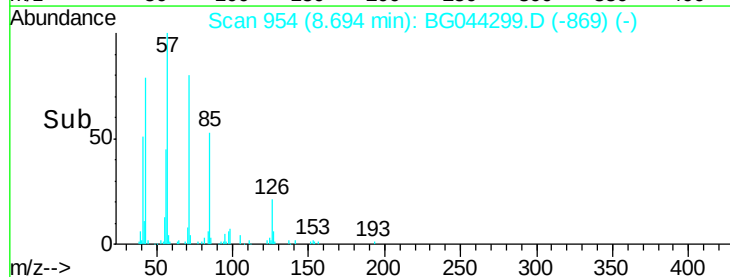
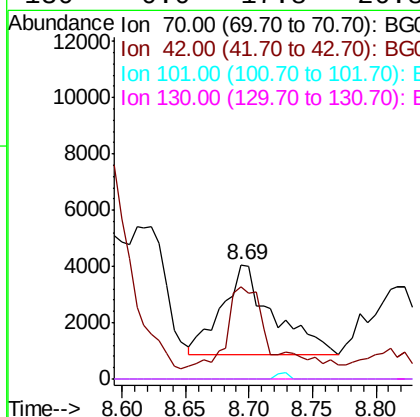
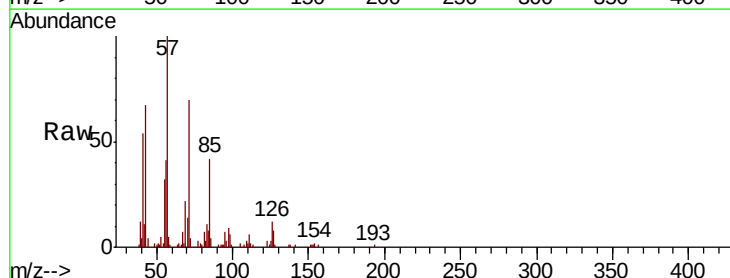
Instrument :  
BNA\_G  
ClientSampleId :

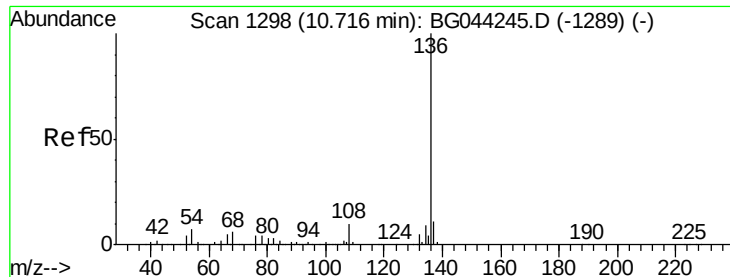
Tot Ion:117 Resp: 115224  
Ion Ratio Lower Upper  
117 100  
119 473.4 77.5 116.3#  
201 0.0 84.9 127.3#



#19  
n-Nitroso-di-n-propylamine  
Concen: 2.170 ng  
RT: 8.69 min Scan# 954  
Delta R.T. -0.03 min  
Lab File: BG044299.D  
Acq: 5 Feb 2020 3:09

Tgt Ion: 70 Resp: 8904  
Ion Ratio Lower Upper  
70 100  
42 81.0 46.2 69.2#  
101 0.0 8.4 12.6#  
130 0.0 17.8 26.8#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.71 min Scan# 1298

Delta R.T. -0.00 min

Lab File: BG044299.D

Acq: 5 Feb 2020 3:09

Instrument :

BNA\_G

ClientSampleId :

Tot Ion:136 Resp: 310921

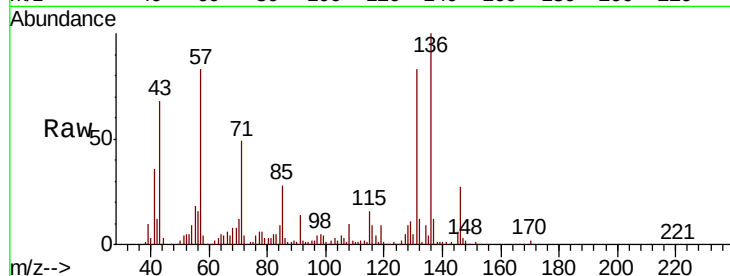
Ion Ratio Lower Upper

136 100

137 11.6 8.8 13.2

54 9.4 5.8 8.8#

68 7.6 4.6 6.8#



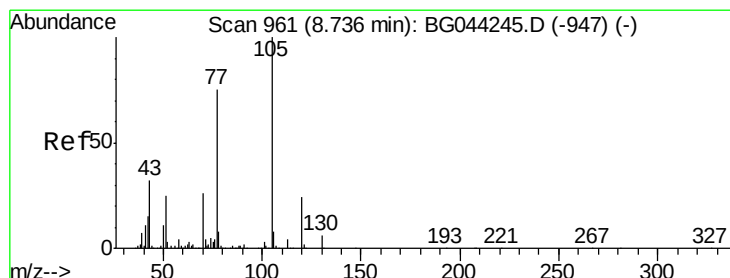
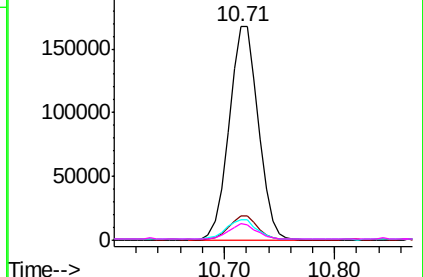
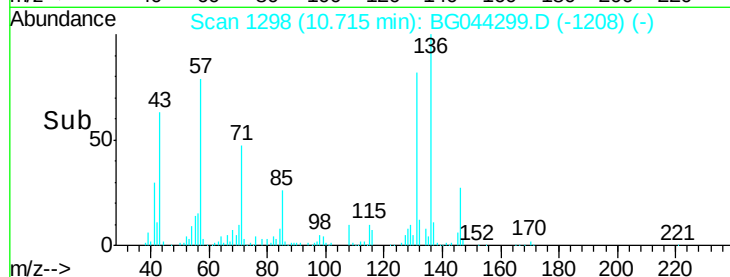
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BGC

Ion 68.00 (67.70 to 68.70): BGC

Time-->



#22

Acetophenone

Concen: 18.873 ng

RT: 8.73 min Scan# 960

Delta R.T. -0.01 min

Lab File: BG044299.D

Acq: 5 Feb 2020 3:09

Tgt Ion:105 Resp: 142753

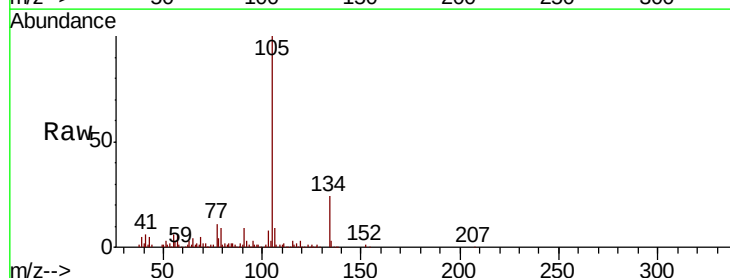
Ion Ratio Lower Upper

105 100

71 2.3 3.4 5.0#

51 3.2 20.2 30.4#

120 0.2 19.1 28.7#



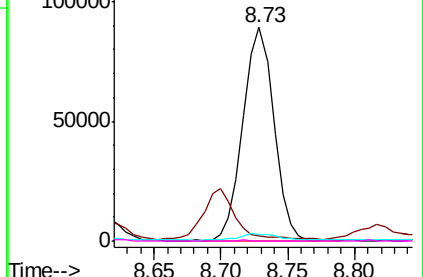
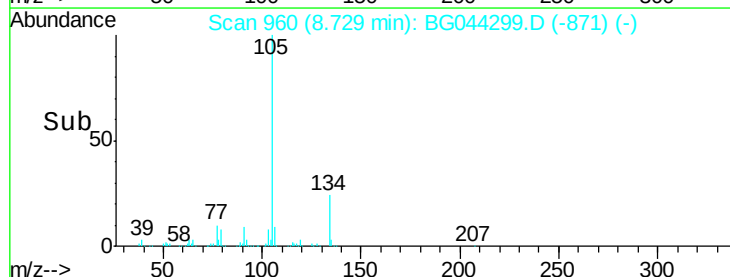
Abundance Ion 105.00 (104.70 to 105.70): E

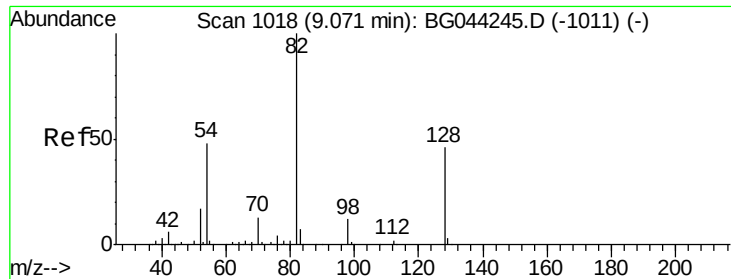
Ion 71.00 (70.70 to 71.70): BGC

Ion 51.00 (50.70 to 51.70): BGC

Ion 120.00 (119.70 to 120.70): E

Time-->

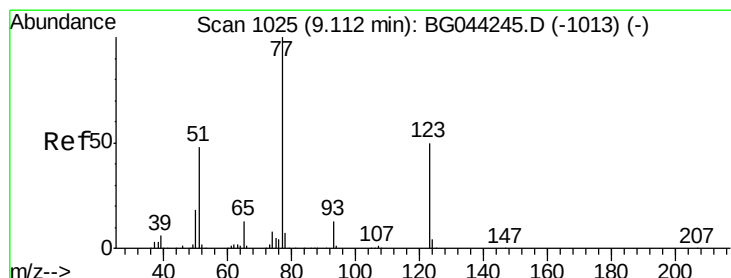
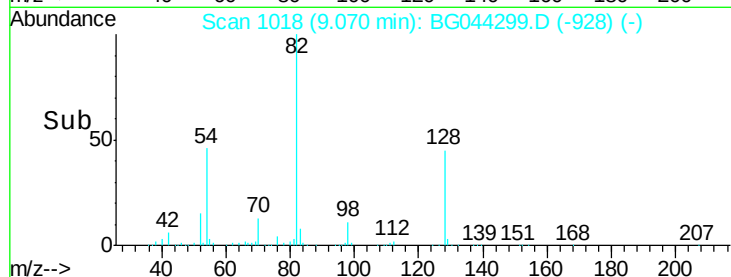
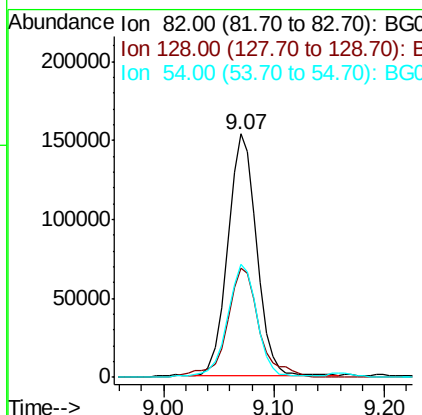
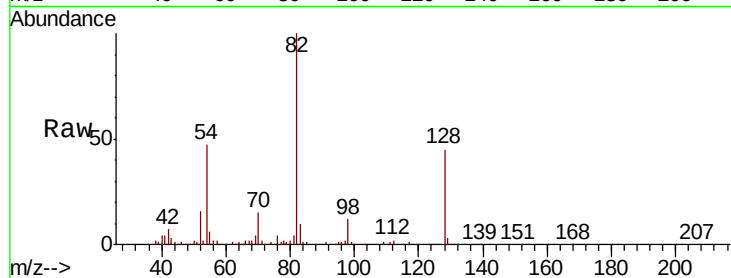




#23  
 Nitrobenzene-d5  
 Concen: 50.649 ng  
 RT: 9.07 min Scan# 1018  
 Delta R.T. -0.00 min  
 Lab File: BG044299.D  
 Acq: 5 Feb 2020 3:09

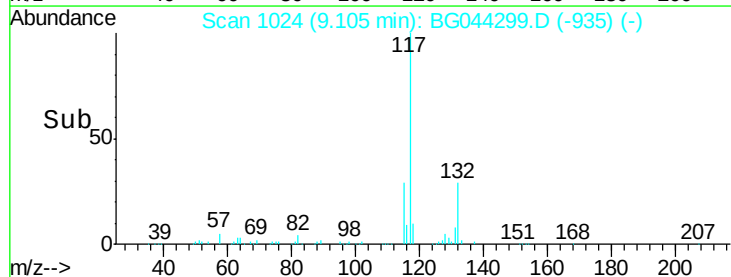
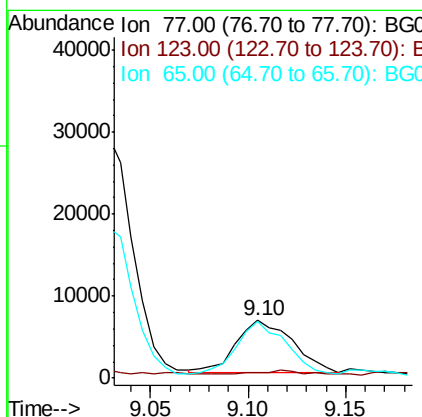
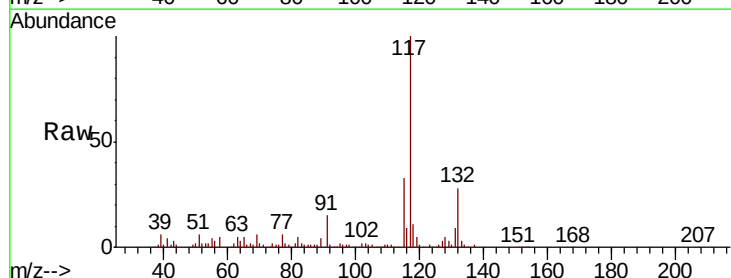
Instrument :  
 BNA\_G  
 ClientSampleId :

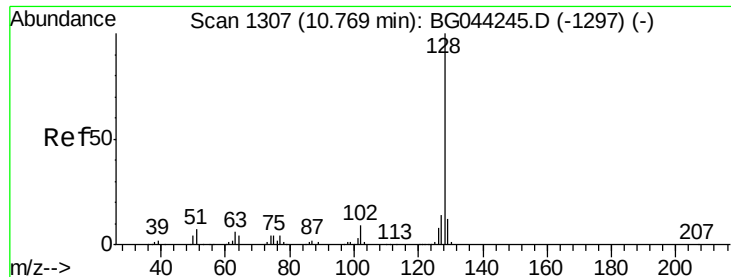
| Tot Ion   | 82    | Resp  | 278940 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 44.7  | 36.5  | 54.7   |
| 54        | 46.5  | 38.6  | 58.0   |



#24  
 Nitrobenzene  
 Concen: 2.412 ng  
 RT: 9.10 min Scan# 1024  
 Delta R.T. -0.01 min  
 Lab File: BG044299.D  
 Acq: 5 Feb 2020 3:09

| Tgt Ion   | 77    | Resp  | 12967 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 77        | 100   |       |       |
| 123       | 10.7  | 39.9  | 59.9# |
| 65        | 98.2  | 10.4  | 15.6# |

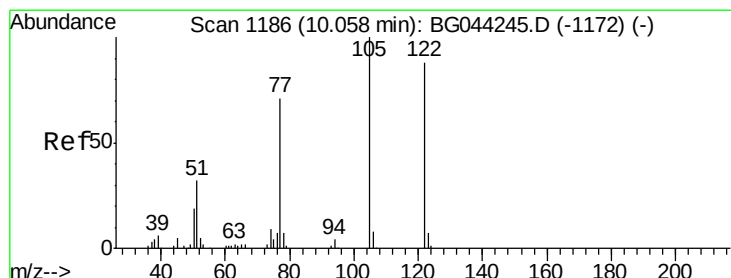
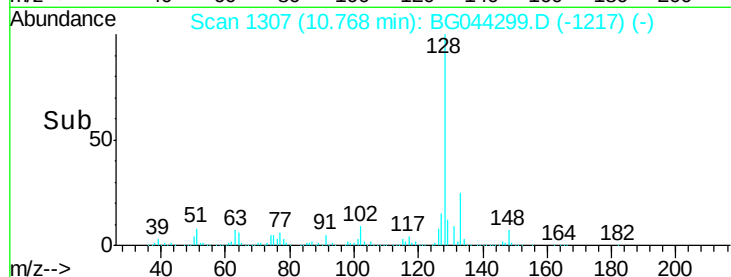
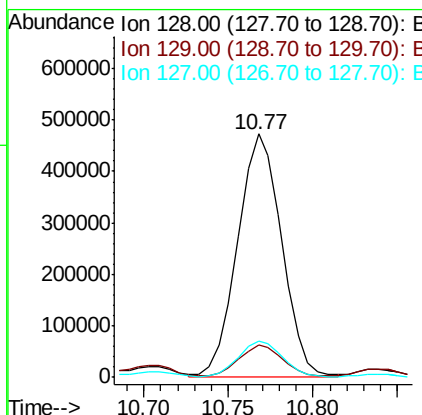
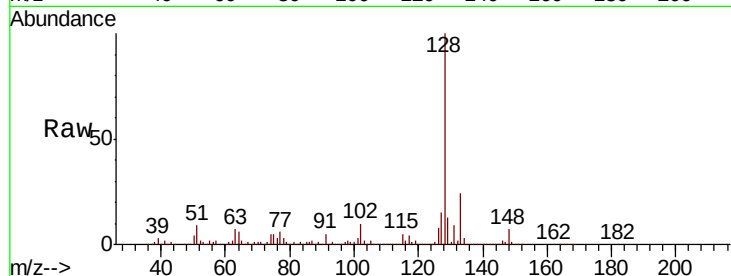




#31  
Naphthalene  
Concen: 56.757 ng  
RT: 10.77 min Scan# 1307  
Delta R.T. -0.00 min  
Lab File: BG044299.D  
Acq: 5 Feb 2020 3:09

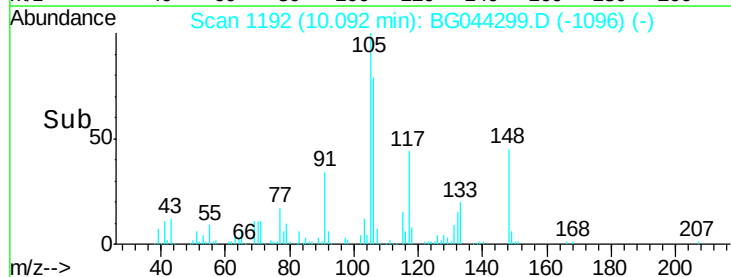
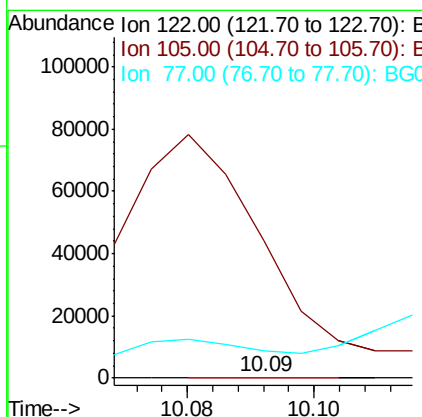
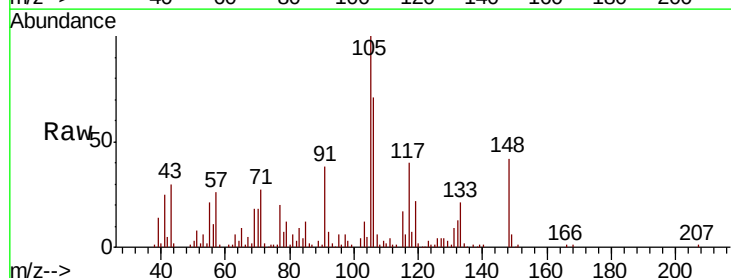
Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:128 Resp: 856176  
Ion Ratio Lower Upper  
128 100  
129 13.4 9.3 13.9  
127 14.8 11.6 17.4

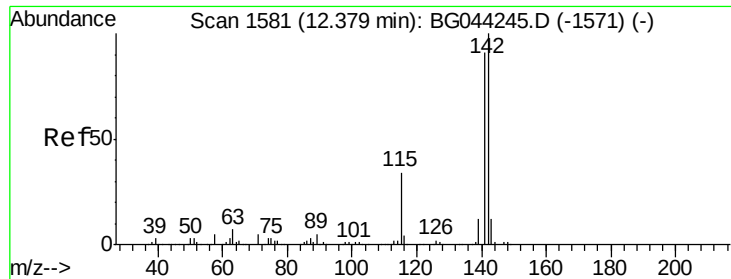


#32  
Benzoic acid  
Concen: 14.213 ng  
RT: 10.09 min Scan# 1192  
Delta R.T. 0.03 min  
Lab File: BG044299.D  
Acq: 5 Feb 2020 3:09

Tgt Ion:122 Resp: 154  
Ion Ratio Lower Upper  
122 100  
105 20032.7 93.5 133.5#  
77 3977.7 61.0 101.0#



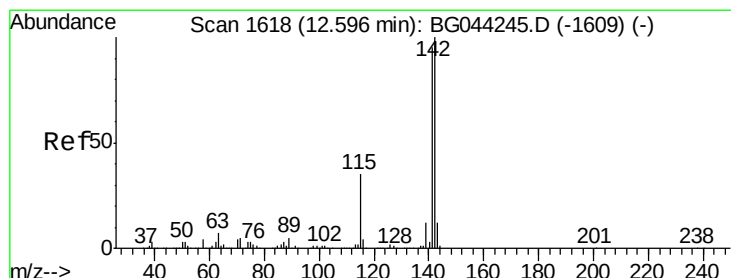
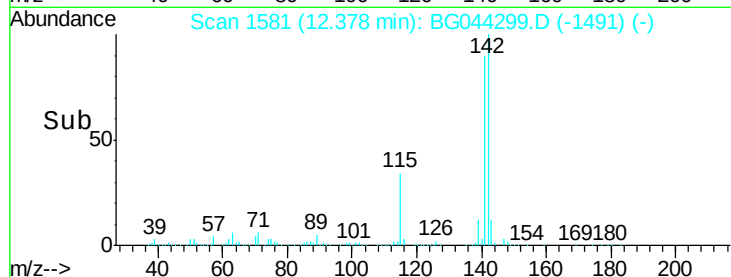
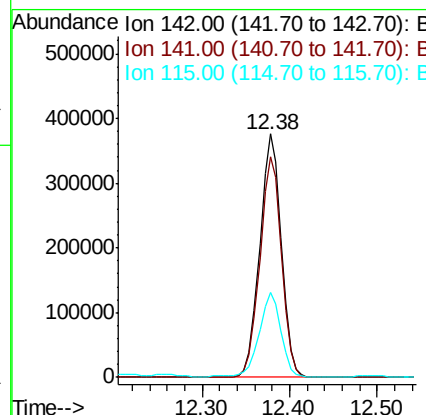
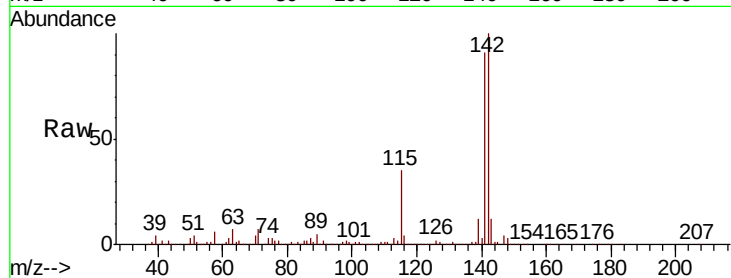




#37  
 2-Methylnaphthalene  
 Concen: 56.111 ng  
 RT: 12.38 min Scan# 1581  
 Delta R.T. -0.00 min  
 Lab File: BG044299.D  
 Acq: 5 Feb 2020 3:09

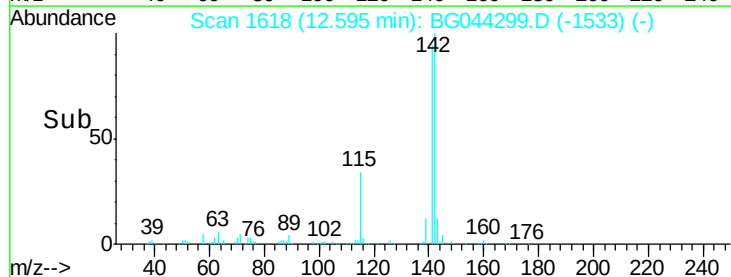
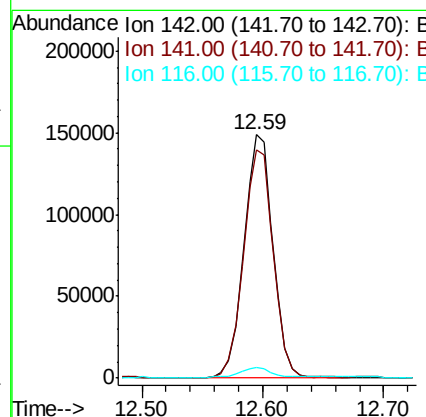
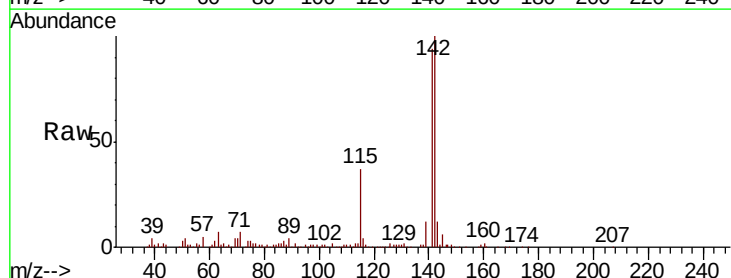
Instrument :  
 BNA\_G  
 ClientSampled :

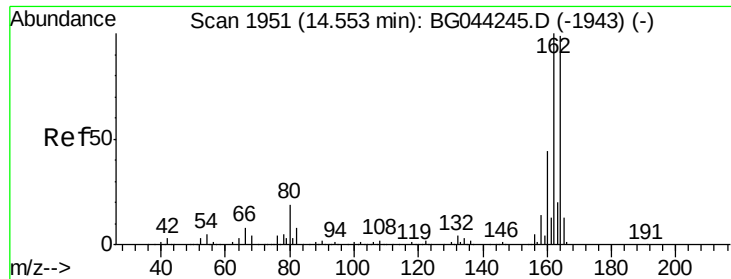
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 90.6  | 73.2  | 109.8 |
| 115     | 35.0  | 27.1  | 40.7  |



#38  
 1-Methylnaphthalene  
 Concen: 23.467 ng  
 RT: 12.59 min Scan# 1618  
 Delta R.T. -0.00 min  
 Lab File: BG044299.D  
 Acq: 5 Feb 2020 3:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 93.8  | 75.8  | 113.6 |
| 116     | 4.2   | 3.1   | 4.7   |

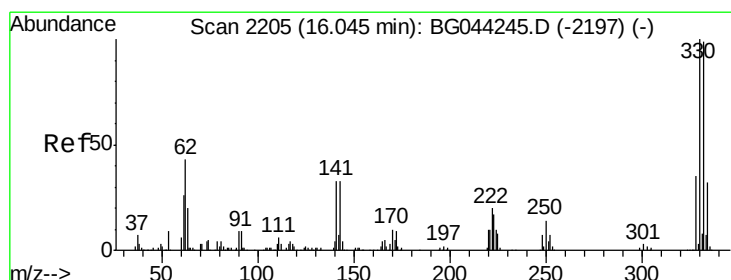
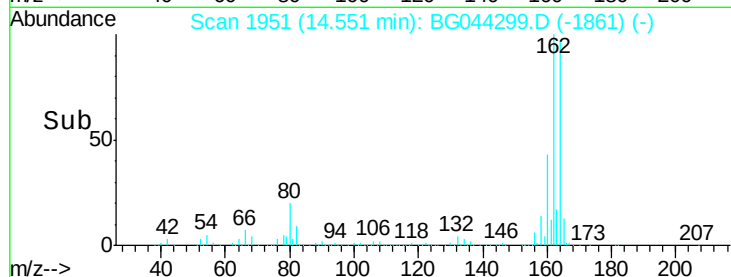
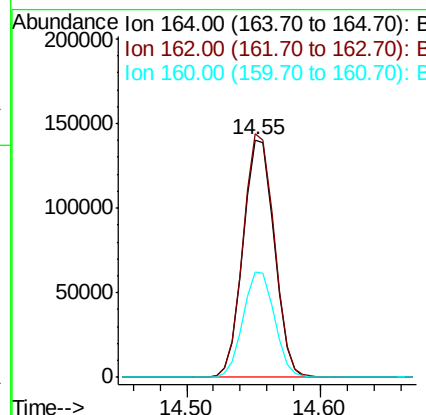
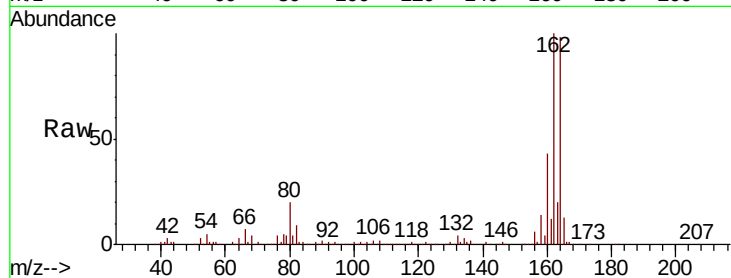




#39  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 14.55 min Scan# 1951  
 Delta R.T. -0.00 min  
 Lab File: BG044299.D  
 Acq: 5 Feb 2020 3:09

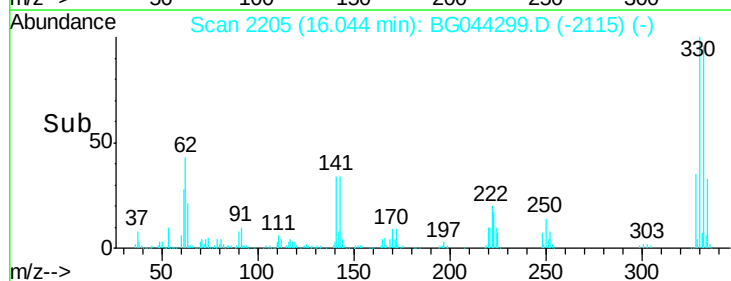
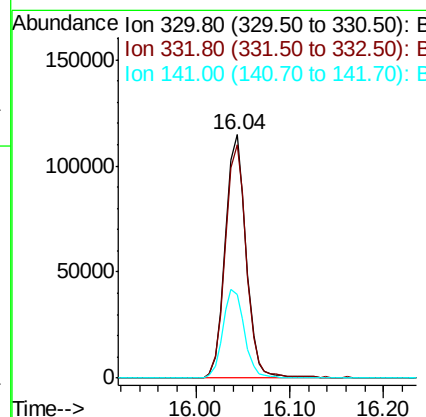
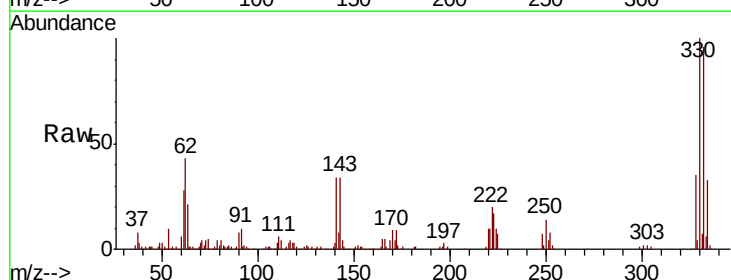
Instrument :  
 BNA\_G  
 ClientSampleId :

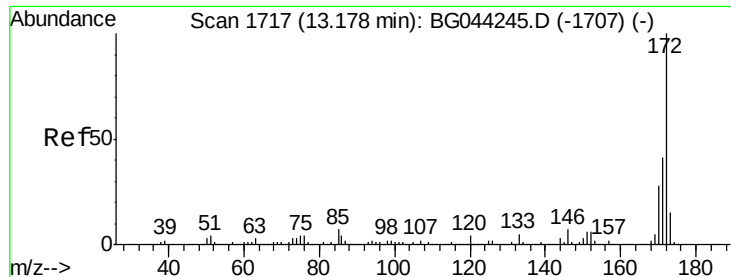
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 102.4 | 80.7  | 121.1 |
| 160     | 44.2  | 35.3  | 52.9  |



#42  
 2,4,6-Tribromophenol  
 Concen: 67.231 ng  
 RT: 16.04 min Scan# 2205  
 Delta R.T. -0.00 min  
 Lab File: BG044299.D  
 Acq: 5 Feb 2020 3:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 97.1  | 77.2  | 115.8 |
| 141     | 37.5  | 28.3  | 42.5  |

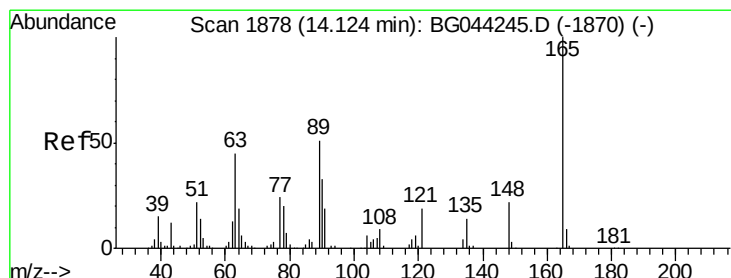
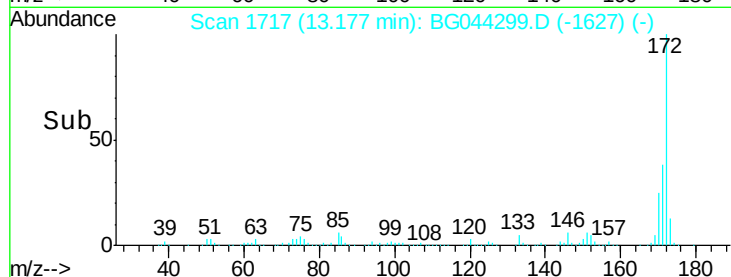
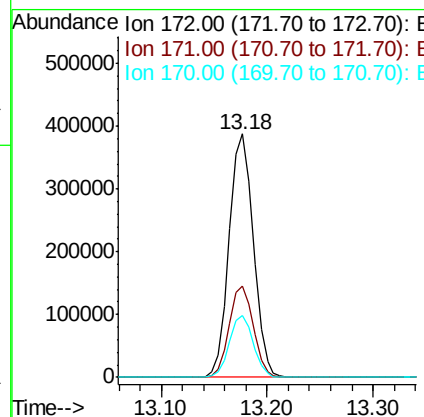
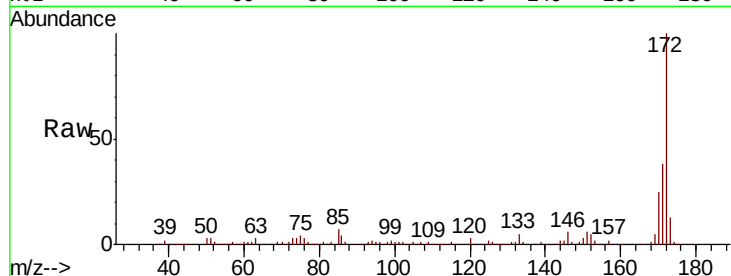




#45  
2-Fluorobiphenyl  
Concen: 45.510 ng  
RT: 13.18 min Scan# 1717  
Delta R.T. -0.00 min  
Lab File: BG044299.D  
Acq: 5 Feb 2020 3:09

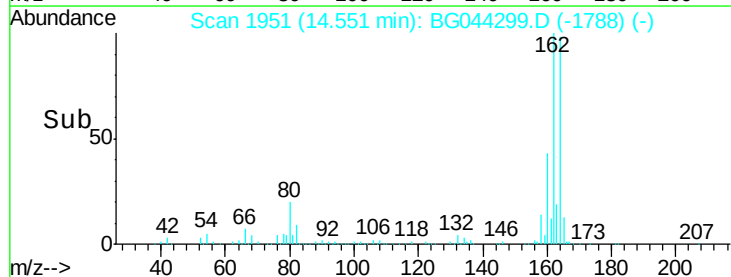
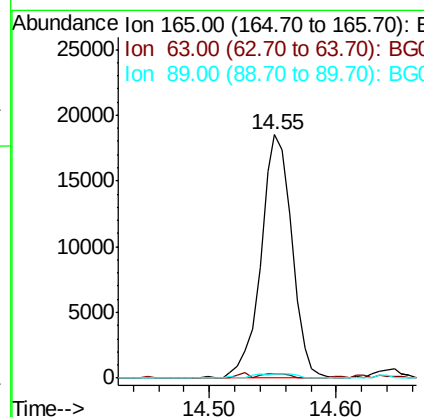
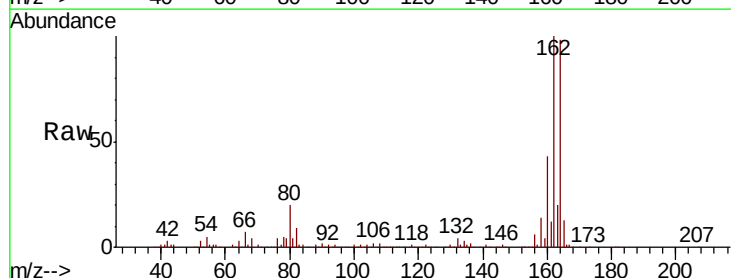
Instrument :  
BNA\_G  
ClientSampleId :

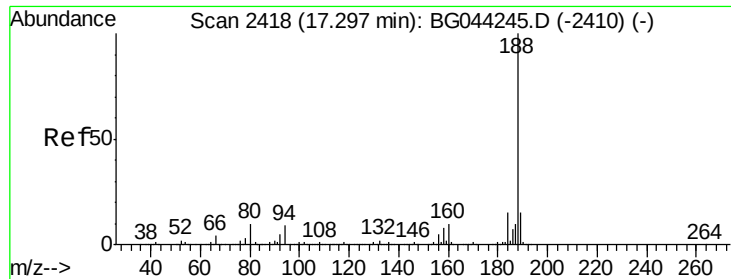
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 37.7  | 32.9  | 49.3  |
| 170     | 25.3  | 22.0  | 33.0  |



#51  
2,6-Dinitrotoluene  
Concen: 8.641 ng  
RT: 14.55 min Scan# 1951  
Delta R.T. 0.43 min  
Lab File: BG044299.D  
Acq: 5 Feb 2020 3:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.8   | 38.7  | 58.1# |
| 89      | 1.6   | 40.4  | 60.6# |





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.30 min Scan# 2418

Delta R.T. -0.00 min

Lab File: BG044299.D

Acq: 5 Feb 2020 3:09

Instrument :

BNA\_G

ClientSampleId :

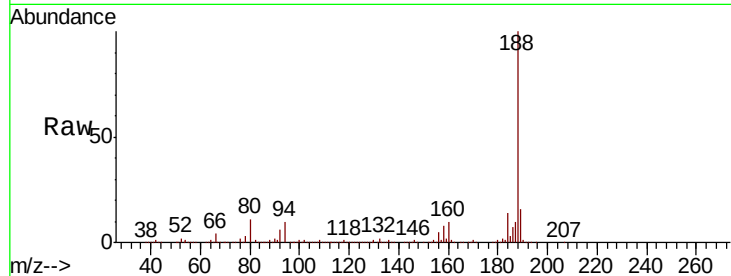
Tot Ion:188 Resp: 526738

Ion Ratio Lower Upper

188 100

94 9.9 7.4 11.2

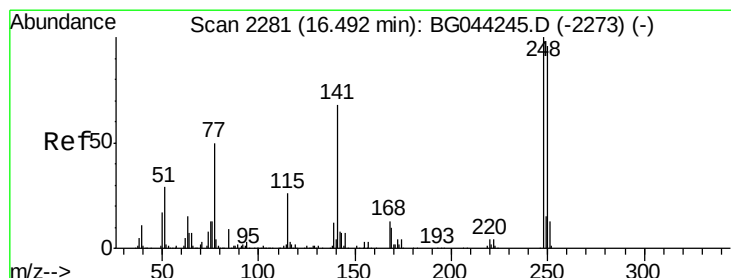
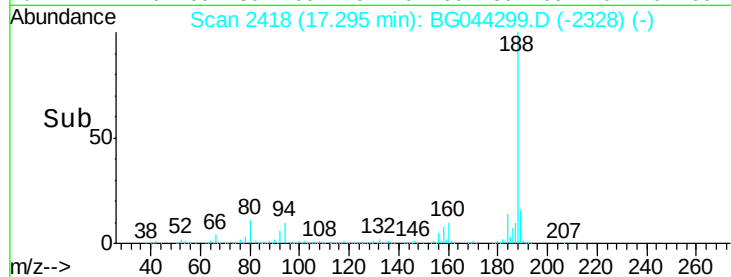
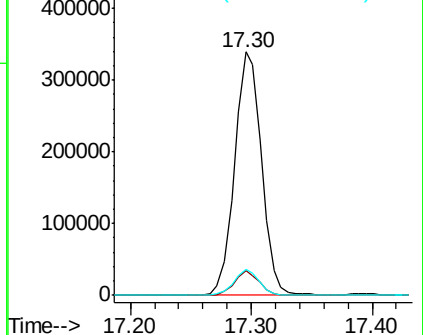
80 10.5 7.7 11.5



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BG

Ion 80.00 (79.70 to 80.70): BG



#67

4-Bromophenyl-phenylether

Concen: 2.147 ng

RT: 16.04 min Scan# 2204

Delta R.T. -0.45 min

Lab File: BG044299.D

Acq: 5 Feb 2020 3:09

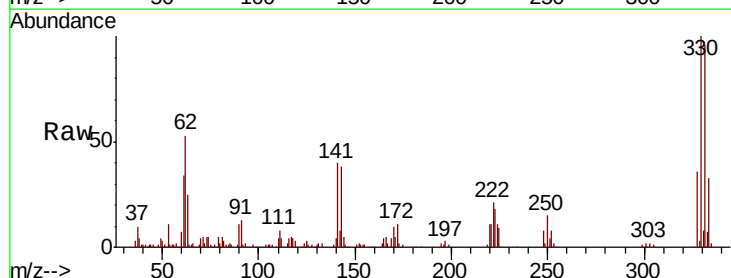
Tgt Ion:248 Resp: 12323

Ion Ratio Lower Upper

248 100

250 186.1 76.6 114.8#

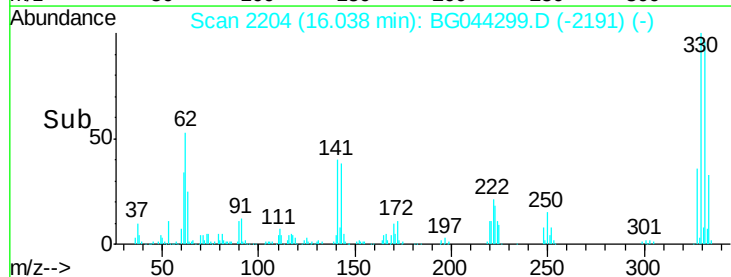
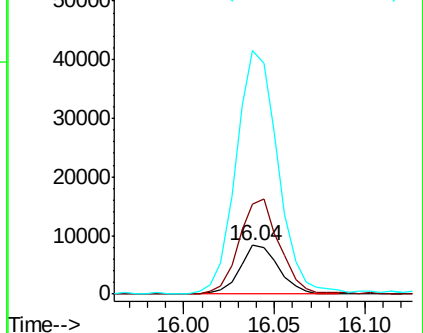
141 502.0 54.7 82.1#

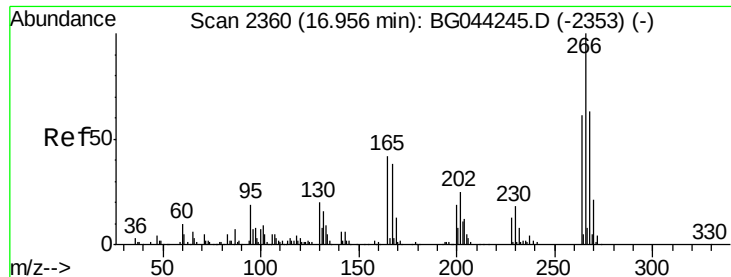


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#70

Pentachlorophenol

Concen: 3.219 ng

RT: 16.92 min Scan# 2354

Delta R.T. -0.04 min

Lab File: BG044299.D

Acq: 5 Feb 2020 3:09

Instrument :

BNA\_G

ClientSampled :

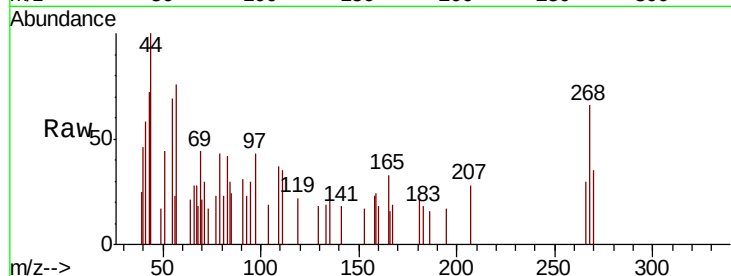
Tot Ion:266 Resp: 260

Ion Ratio Lower Upper

266 100

268 218.6 50.6 75.8#

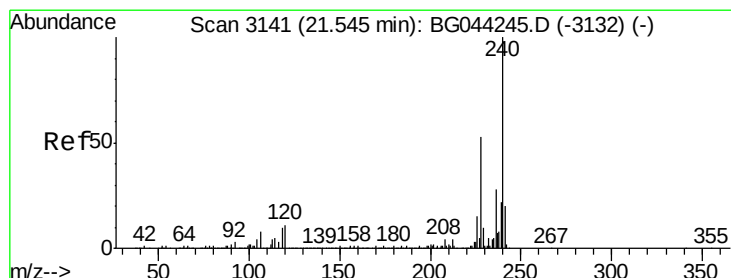
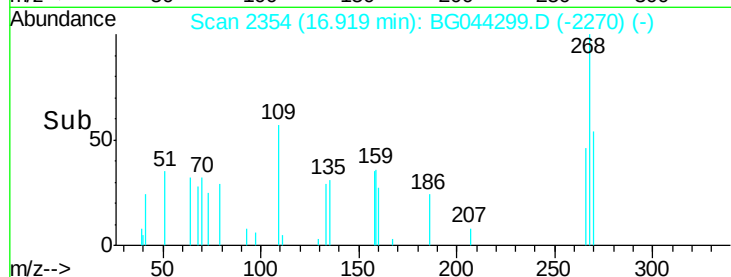
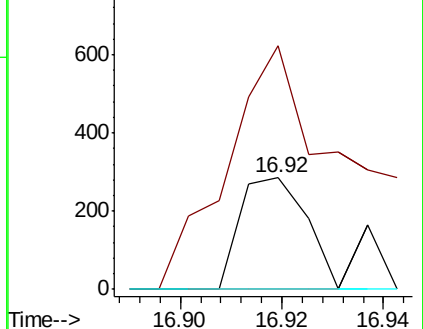
264 0.0 48.7 73.1#



Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.54 min Scan# 3141

Delta R.T. -0.00 min

Lab File: BG044299.D

Acq: 5 Feb 2020 3:09

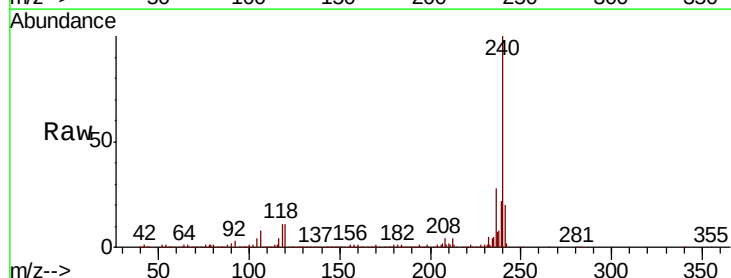
Tgt Ion:240 Resp: 522311

Ion Ratio Lower Upper

240 100

120 10.7 8.4 12.6

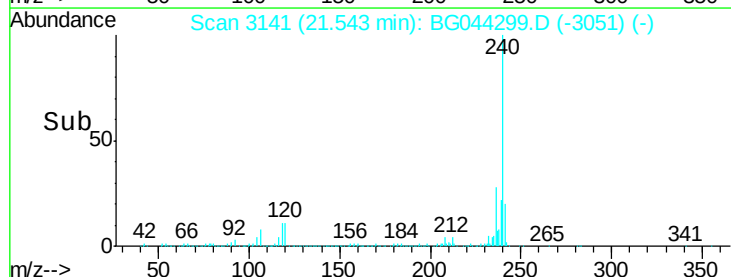
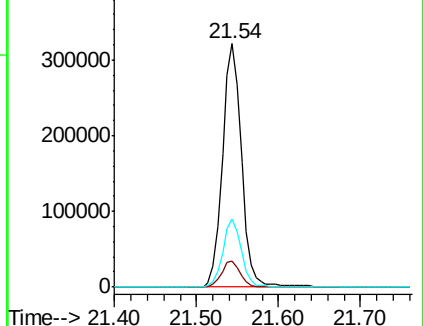
236 28.0 22.1 33.1

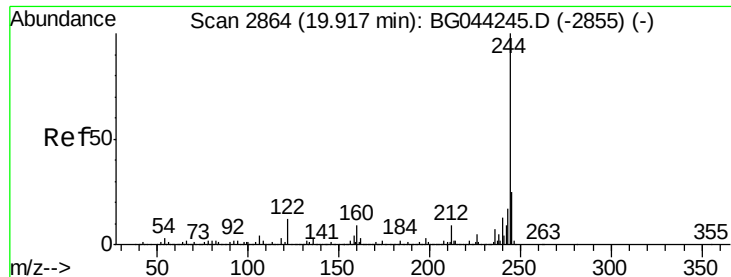


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#79

Terphenyl-d14

Concen: 45.688 ng

RT: 19.92 min Scan# 2864

Delta R.T. -0.00 min

Lab File: BG044299.D

Acq: 5 Feb 2020 3:09

Instrument :

BNA\_G

ClientSampleId :

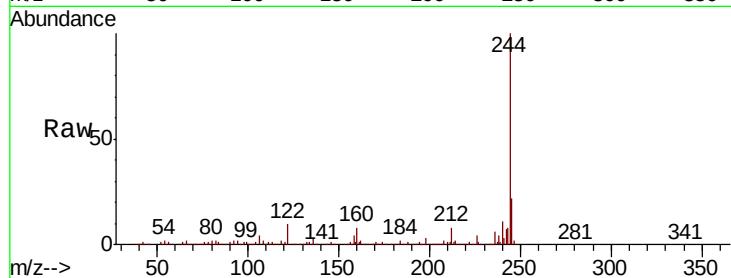
Tot Ion:244 Resp: 1160184

Ion Ratio Lower Upper

244 100

212 8.1 7.4 11.2

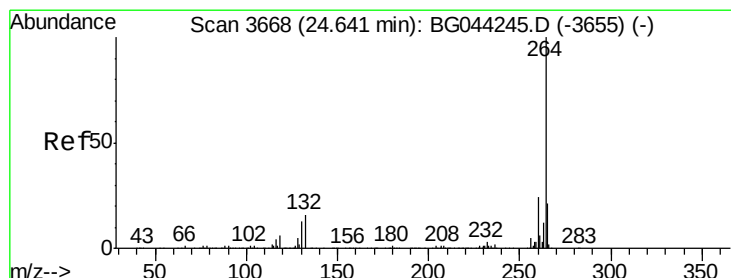
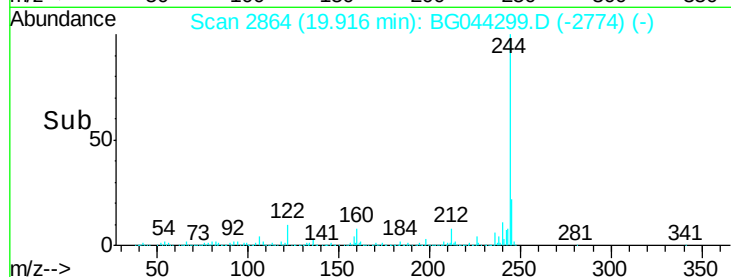
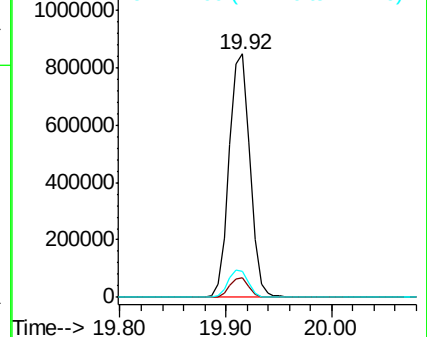
122 10.5 9.8 14.6



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

Perylene-d12

Concen: 20.000 ng

RT: 24.64 min Scan# 3668

Delta R.T. -0.00 min

Lab File: BG044299.D

Acq: 5 Feb 2020 3:09

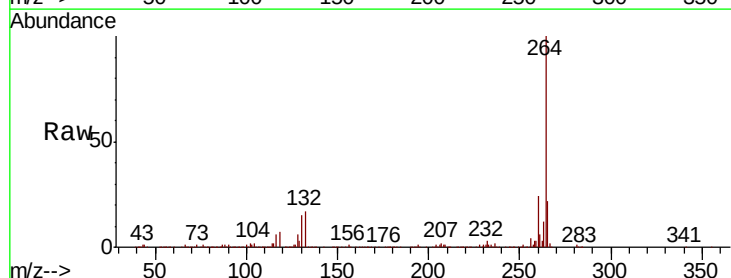
Tgt Ion:264 Resp: 575363

Ion Ratio Lower Upper

264 100

260 24.1 19.4 29.2

265 21.7 16.7 25.1



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

