

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG052620\  
 Data File : BG045465.D  
 Acq On : 26 May 2020 20:16  
 Operator : CG/JU  
 Sample : L2744-03  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: May 27 00:58:21 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG051520.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue May 26 14:16:30 2020  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.96  | 152  | 86650    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 10.77 | 136  | 348456   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 14.60 | 164  | 238388   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 17.35 | 188  | 523842   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 21.61 | 240  | 486511   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 24.75 | 264  | 529305   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.56  | 112  | 430076   | 97.00  | ng    | 0.00     |
| 7) Phenol-d6                | 7.18  | 99   | 649412   | 102.91 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.12  | 82   | 449203   | 70.30  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 16.10 | 330  | 314642   | 103.20 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 13.22 | 172  | 1043763  | 74.27  | ng    | 0.00     |
| 79) Terphenyl-d14           | 19.97 | 244  | 1527320  | 73.22  | ng    | 0.00     |

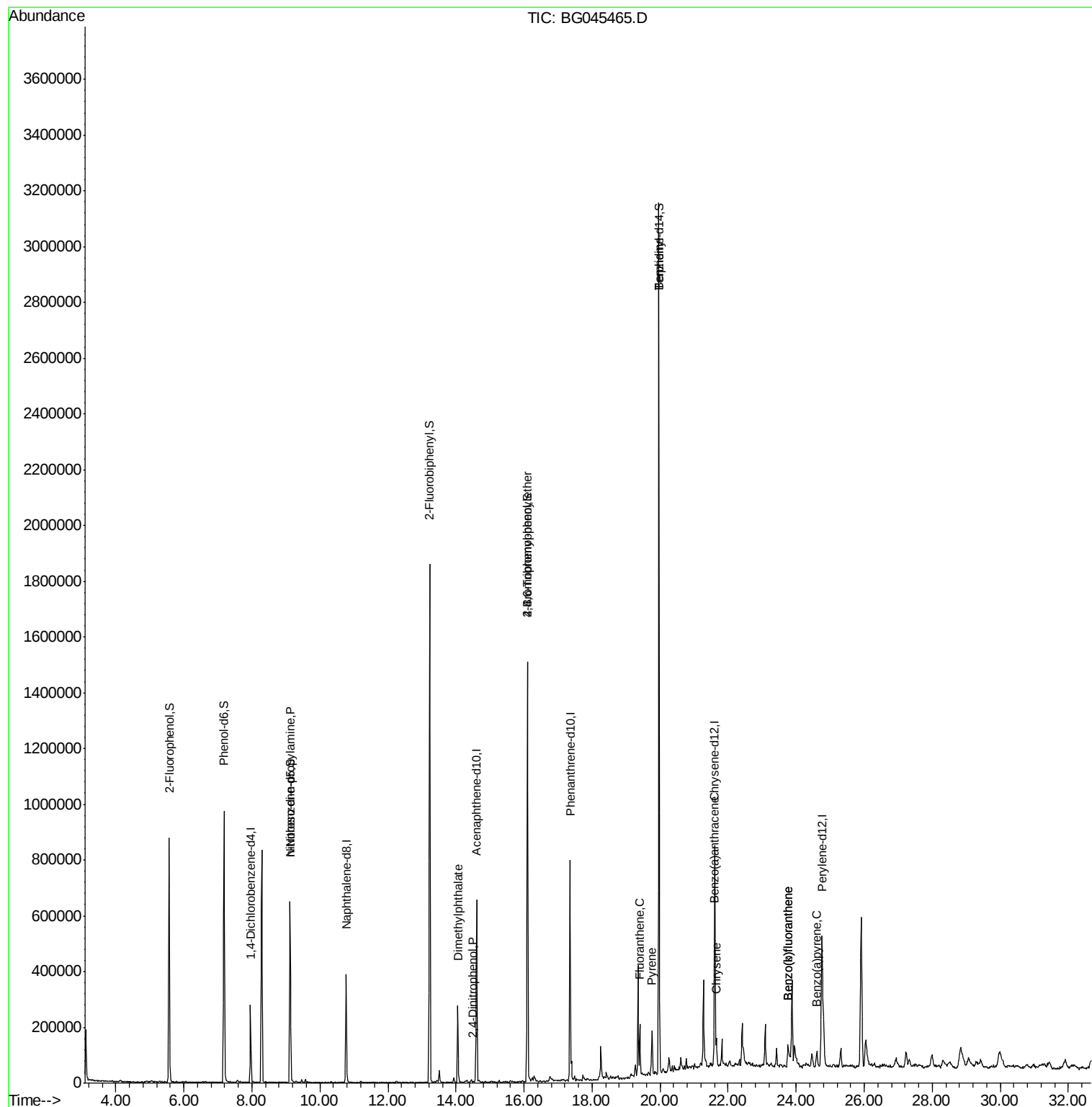
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 19) n-Nitroso-di-n-propylamine | 9.12  | 70   | 60533    | 13.871 | ng    | # 80   |
| 50) Dimethylphthalate          | 14.05 | 163  | 190951   | 11.677 | ng    | 99     |
| 54) 2,4-Dinitrophenol          | 14.49 | 184  | 74       | 5.487  | ng    | # 17   |
| 67) 4-Bromophenyl-phenylether  | 16.10 | 248  | 21298    | 3.755  | ng    | # 1    |
| 75) Fluoranthene               | 19.40 | 202  | 113440   | 3.900  | ng    | 95     |
| 77) Benzidine                  | 19.97 | 184  | 27792    | 2.034  | ng    | # 91   |
| 78) Pyrene                     | 19.77 | 202  | 108759   | 3.922  | ng    | 92     |
| 81) Benzo(a)anthracene         | 21.59 | 228  | 70413    | 2.598  | ng    | 97     |
| 83) Chrysene                   | 21.65 | 228  | 66716    | 2.560  | ng    | 95     |
| 88) Benzo(b)fluoranthene       | 23.76 | 252  | 92715    | 3.266  | ng    | # 97   |
| 89) Benzo(k)fluoranthene       | 23.76 | 252  | 92715    | 3.476  | ng    | # 96   |
| 90) Benzo(a)pyrene             | 24.61 | 252  | 68925    | 2.607  | ng    | 99     |

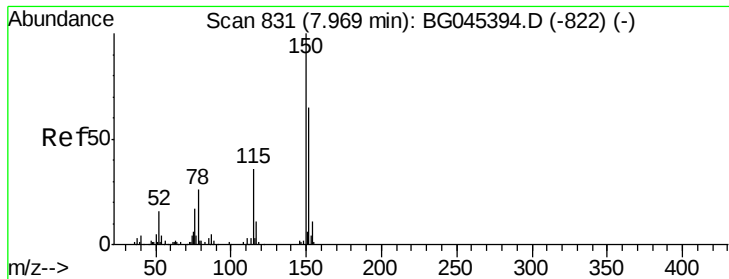
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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BNA\_G  
ClientSampleId :

Quant Time: May 27 00:58:21 2020  
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue May 26 14:16:30 2020  
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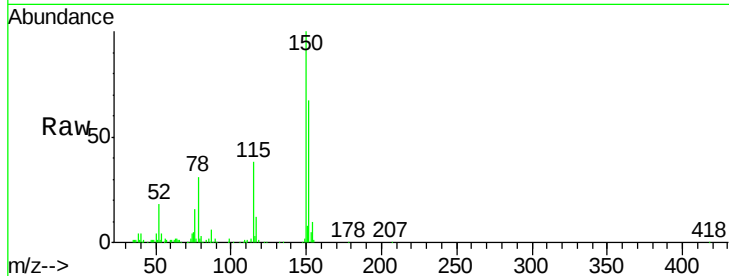


#1

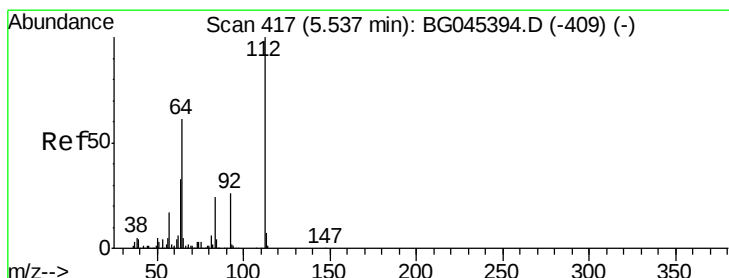
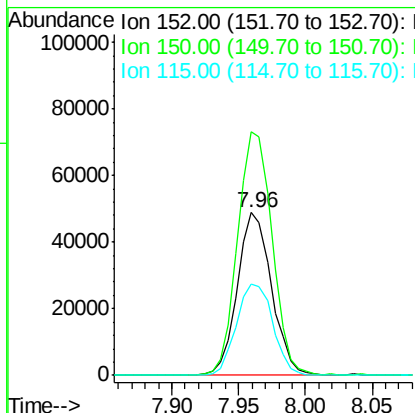
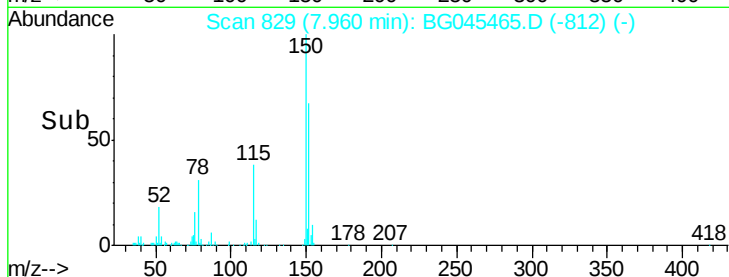
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.96 min Scan# 829  
Delta R.T. 0.00 min  
Lab File: BG045465.D  
Acq: 26 May 2020 20:16

Instrument :  
BNA\_G  
ClientSampled :

Tot Ion:152 Resp: 86650  
Ion Ratio Lower Upper  
152 100  
150 149.5 122.4 183.6  
115 56.2 44.2 66.4



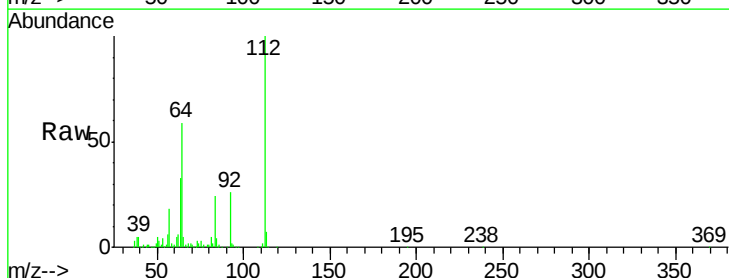
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



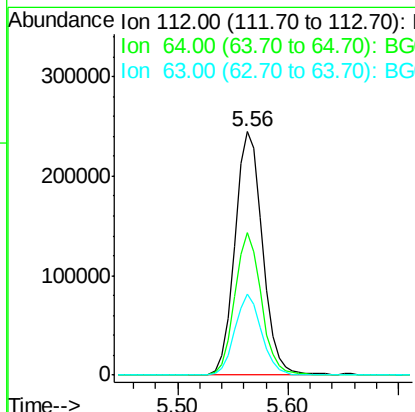
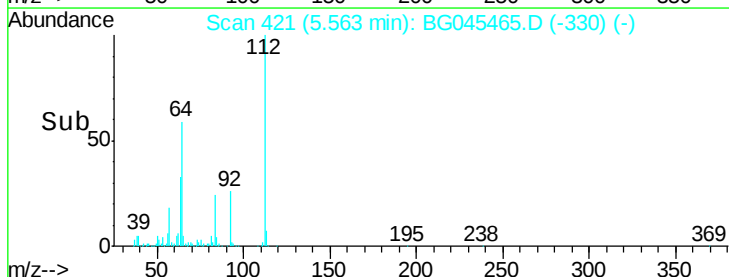
#5

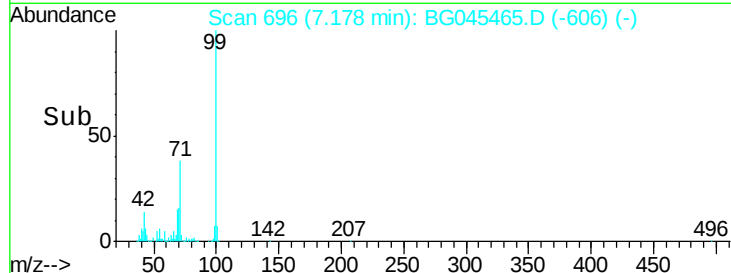
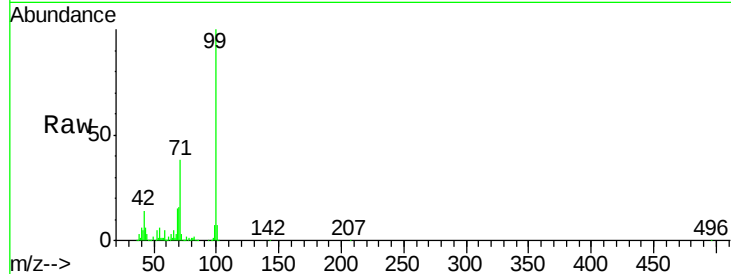
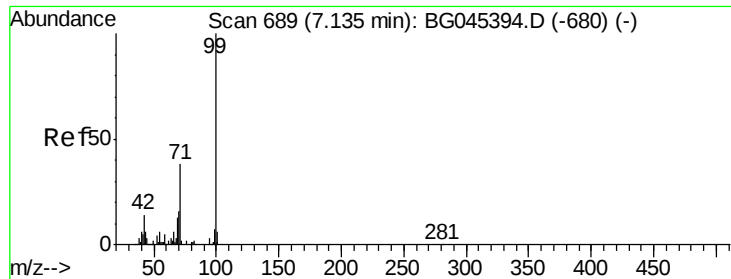
2-Fluorophenol  
Concen: 96.999 ng  
RT: 5.56 min Scan# 421  
Delta R.T. 0.00 min  
Lab File: BG045465.D  
Acq: 26 May 2020 20:16

Tgt Ion:112 Resp: 430076  
Ion Ratio Lower Upper  
112 100  
64 58.6 48.6 72.8  
63 33.1 26.5 39.7



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





#7

Phenol-d6

Concen: 102.907 ng

RT: 7.18 min Scan# 696

Delta R.T. -0.00 min

Lab File: BG045465.D

Acq: 26 May 2020 20:16

Instrument :

BNA\_G

ClientSampleId :

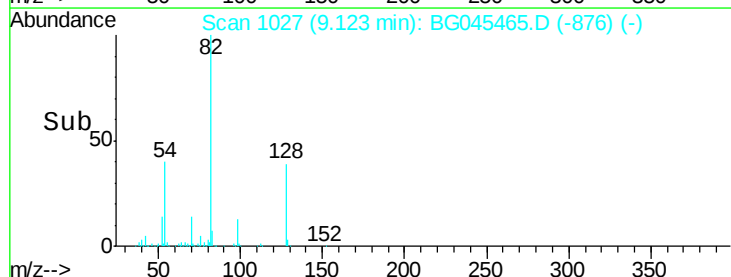
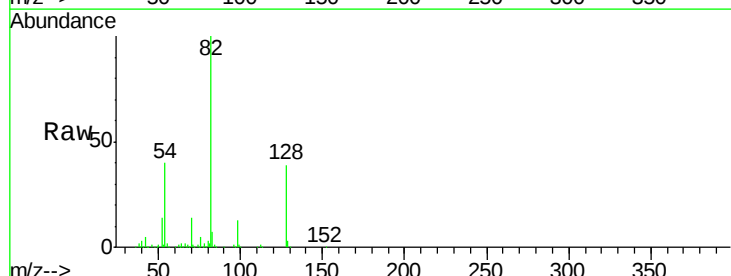
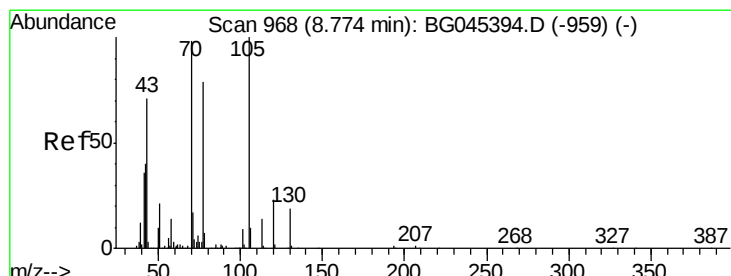
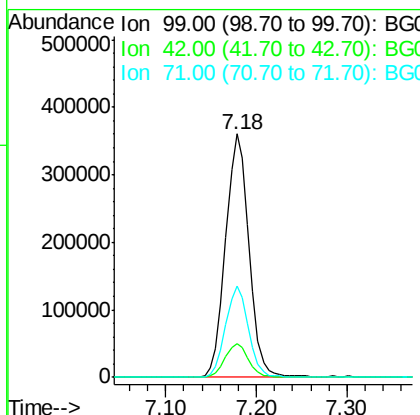
Tot Ion: 99 Resp: 649412

Ion Ratio Lower Upper

99 100

42 13.9 11.3 16.9

71 37.5 30.8 46.2



#19

n-Nitroso-di-n-propylamine

Concen: 13.871 ng

RT: 9.12 min Scan# 1027

Delta R.T. 0.35 min

Lab File: BG045465.D

Acq: 26 May 2020 20:16

Tgt Ion: 70 Resp: 60533

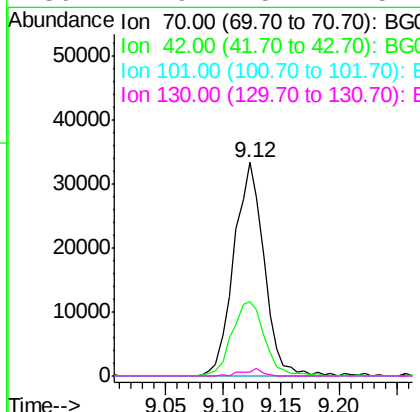
Ion Ratio Lower Upper

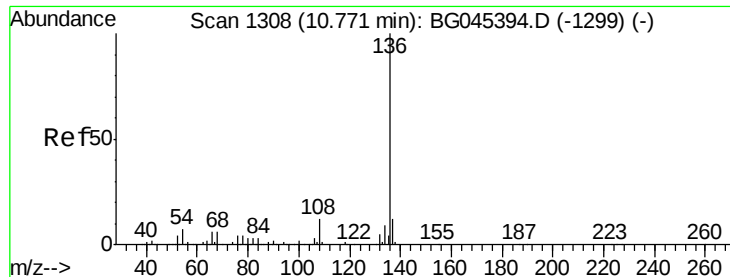
70 100

42 35.1 33.2 49.8

101 0.0 7.8 11.6#

130 1.9 15.4 23.2#

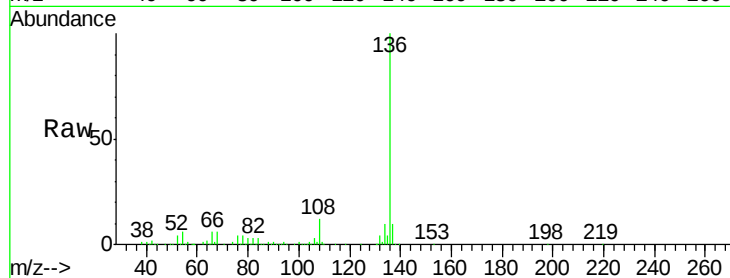




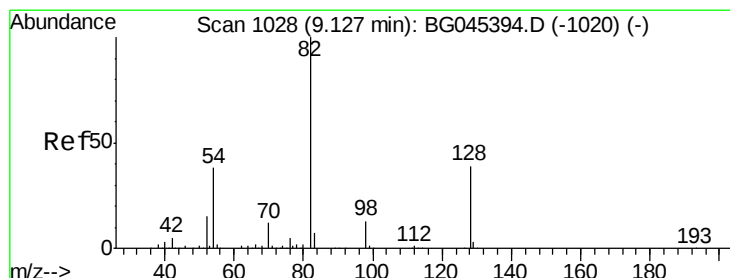
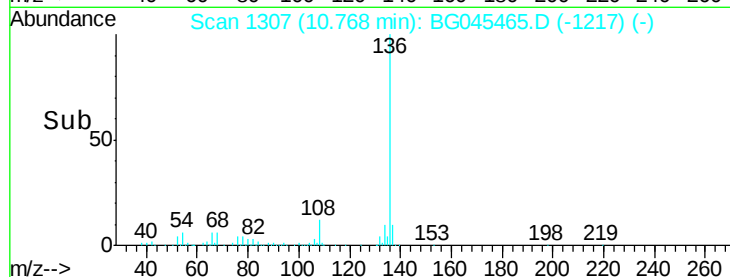
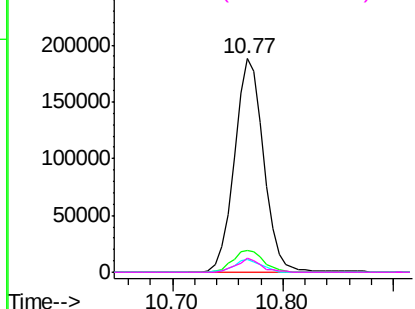
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.77 min Scan# 1307  
Delta R.T. -0.00 min  
Lab File: BG045465.D  
Acq: 26 May 2020 20:16

Instrument :  
BNA\_G  
ClientSampleId :

|             |       |        |
|-------------|-------|--------|
| Tot Ion:136 | Resp: | 348456 |
| Ion Ratio   | Lower | Upper  |
| 136 100     |       |        |
| 137 9.9     | 9.4   | 14.2   |
| 54 6.3      | 5.8   | 8.6    |
| 68 6.4      | 4.5   | 6.7    |

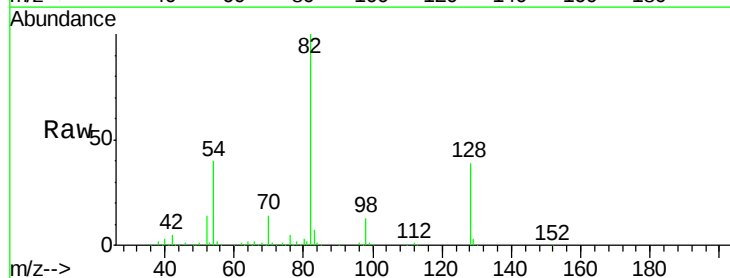


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

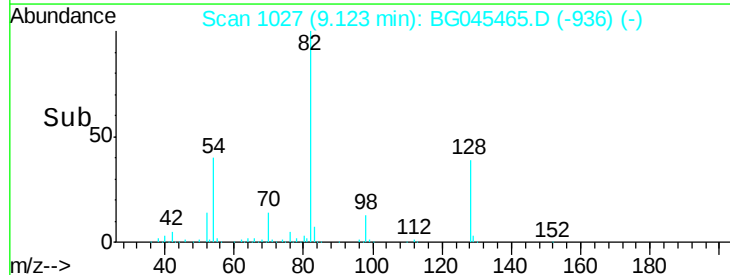
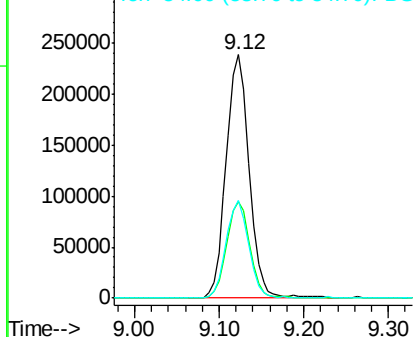


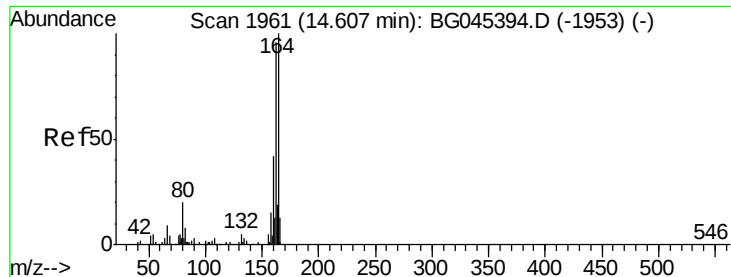
#23  
Nitrobenzene-d5  
Concen: 70.298 ng  
RT: 9.12 min Scan# 1027  
Delta R.T. 0.00 min  
Lab File: BG045465.D  
Acq: 26 May 2020 20:16

|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion: 82 | Resp: | 449203 |
| Ion | Ratio   | Lower | Upper  |
| 82  | 100     |       |        |
| 128 | 39.4    | 30.9  | 46.3   |
| 54  | 40.2    | 30.3  | 45.5   |



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





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.60 min Scan# 1960

Delta R.T. -0.00 min

Lab File: BG045465.D

Acq: 26 May 2020 20:16

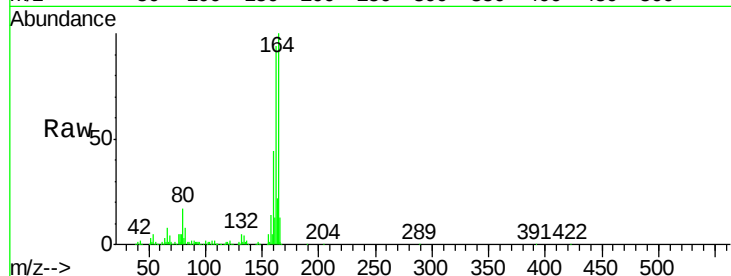
Instrument :

BNA\_G

ClientSampleId :

Tot Ion:164 Resp: 238388

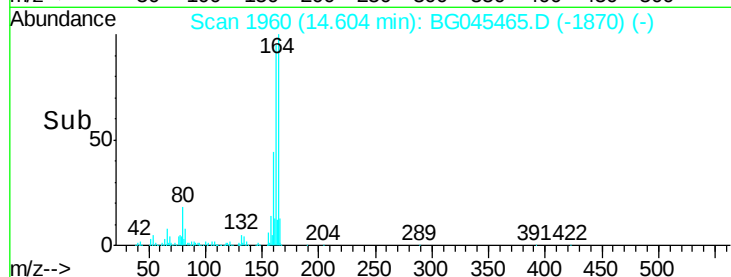
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 162 | 94.0  | 76.9  | 115.3 |
| 160 | 43.6  | 33.8  | 50.8  |



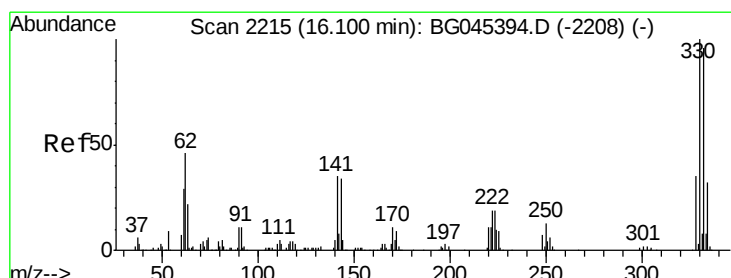
Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



Time-->



#42

2,4,6-Tribromophenol

Concen: 103.205 ng

RT: 16.10 min Scan# 2215

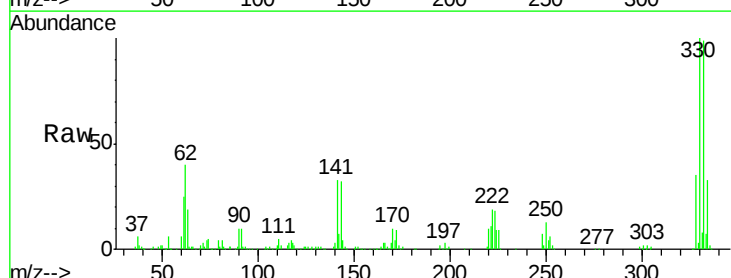
Delta R.T. 0.00 min

Lab File: BG045465.D

Acq: 26 May 2020 20:16

Tgt Ion:330 Resp: 314642

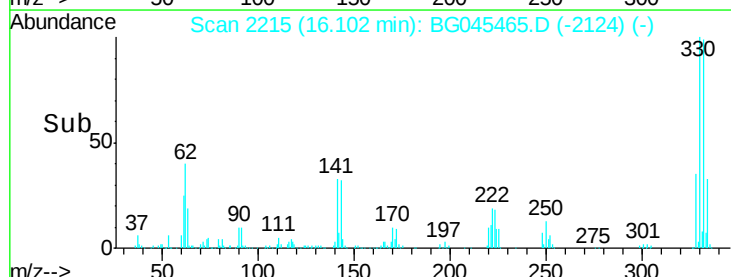
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 330 | 100   |       |       |
| 332 | 97.4  | 78.2  | 117.4 |
| 141 | 34.0  | 28.2  | 42.4  |



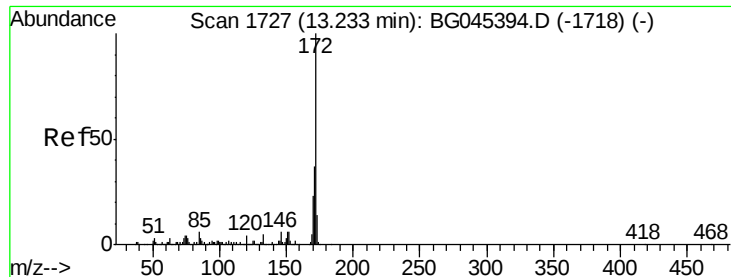
Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



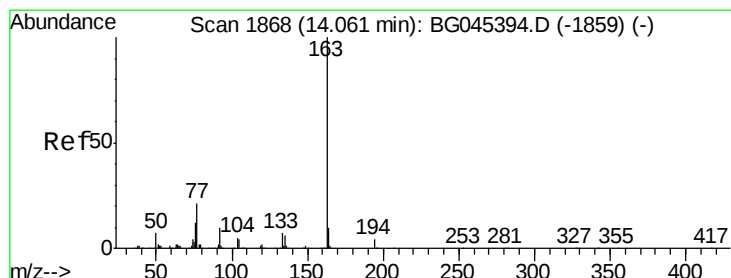
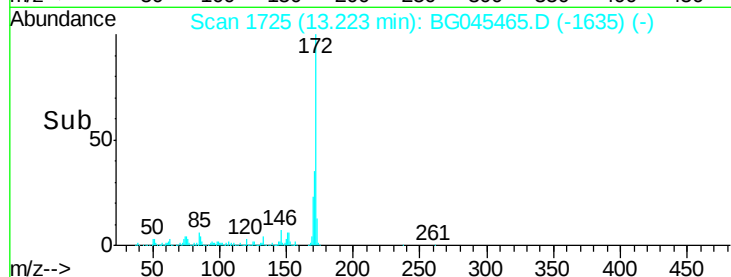
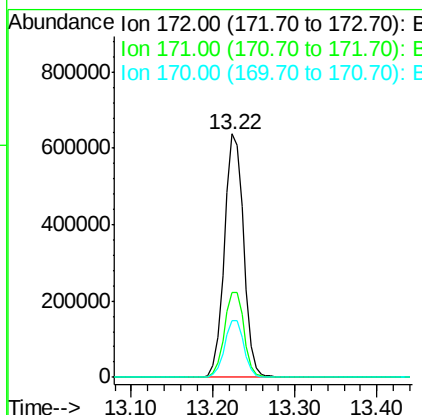
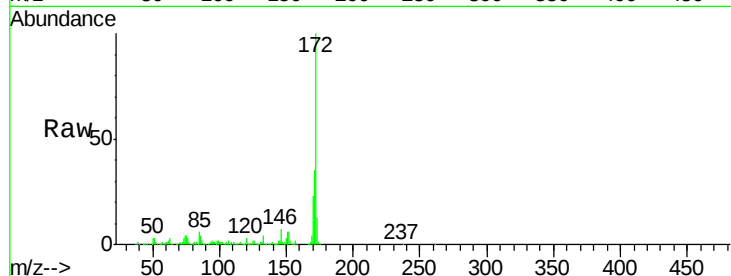
Time-->



#45  
2-Fluorobiphenyl  
Concen: 74.267 ng  
RT: 13.22 min Scan# 1725  
Delta R.T. -0.00 min  
Lab File: BG045465.D  
Acq: 26 May 2020 20:16

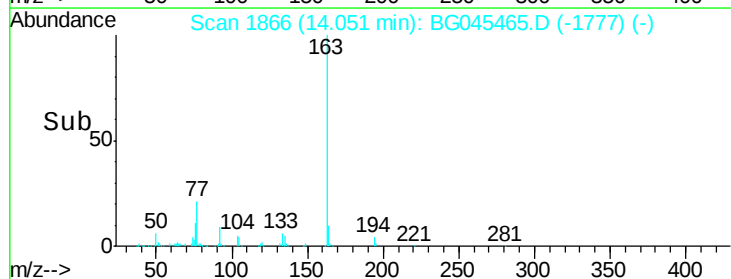
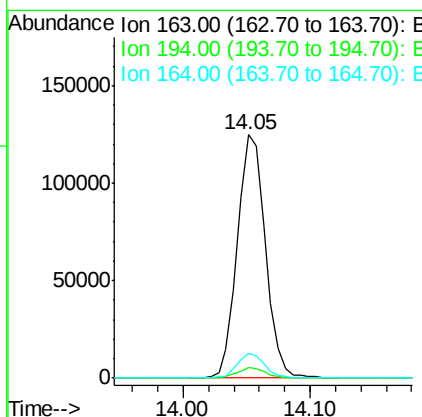
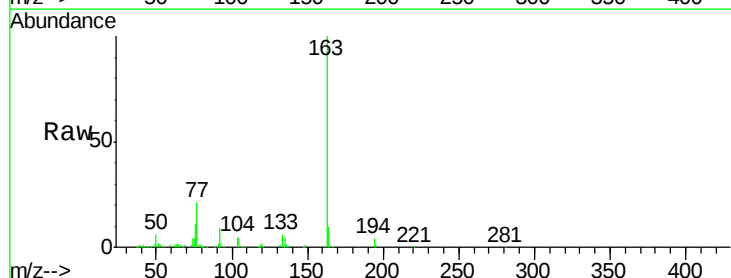
Instrument :  
BNA\_G  
ClientSampleId :

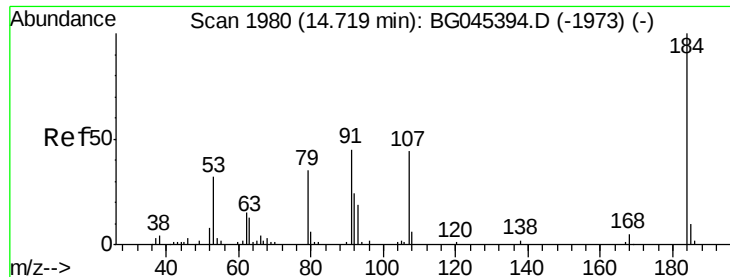
Tot Ion:172 Resp: 1043763  
Ion Ratio Lower Upper  
172 100  
171 35.0 29.5 44.3  
170 23.1 18.5 27.7



#50  
Dimethylphthalate  
Concen: 11.677 ng  
RT: 14.05 min Scan# 1866  
Delta R.T. -0.01 min  
Lab File: BG045465.D  
Acq: 26 May 2020 20:16

Tgt Ion:163 Resp: 190951  
Ion Ratio Lower Upper  
163 100  
194 4.3 3.2 4.8  
164 10.2 8.3 12.5

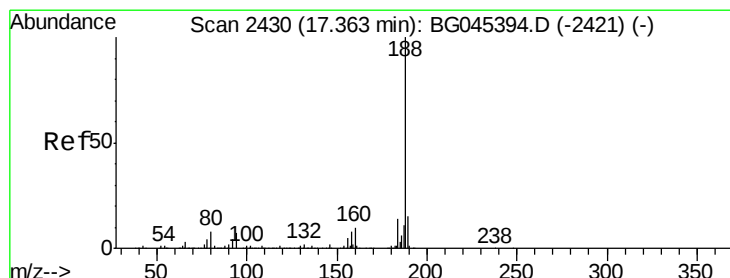
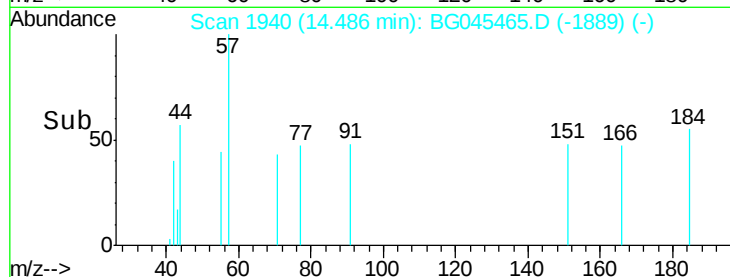
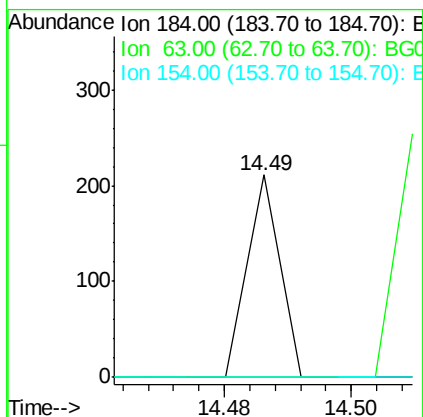
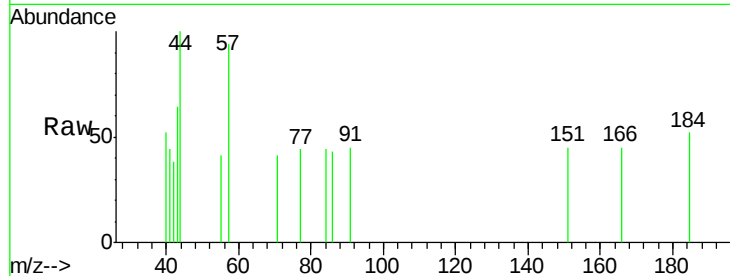




#54  
 2,4-Dinitrophenol  
 Concen: 5.487 ng  
 RT: 14.49 min Scan# 1940  
 Delta R.T. -0.23 min  
 Lab File: BG045465.D  
 Acq: 26 May 2020 20:16

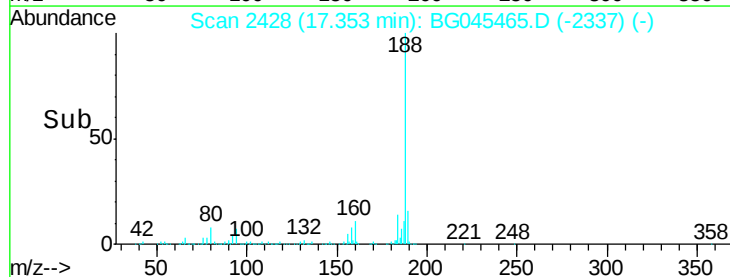
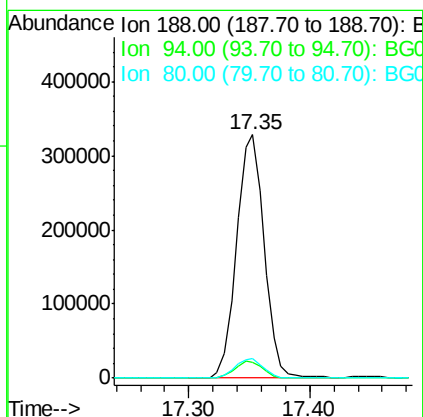
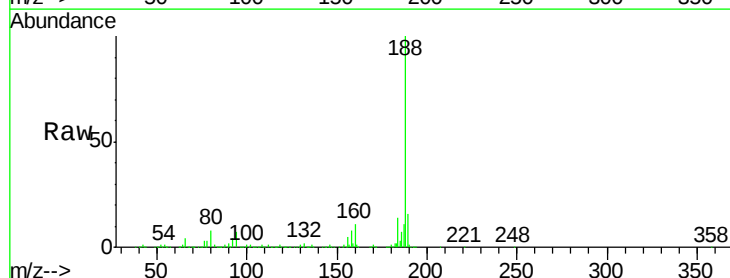
Instrument :  
 BNA\_G  
 ClientSampleId :

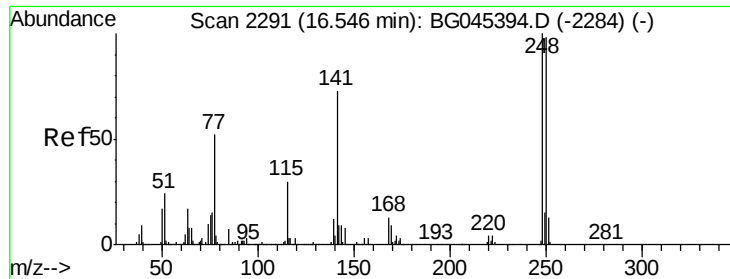
Tot Ion:184 Resp: 74  
 Ion Ratio Lower Upper  
 184 100  
 63 0.0 47.8 71.6#  
 154 0.0 58.3 87.5#



#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.35 min Scan# 2428  
 Delta R.T. 0.00 min  
 Lab File: BG045465.D  
 Acq: 26 May 2020 20:16

Tgt Ion:188 Resp: 523842  
 Ion Ratio Lower Upper  
 188 100  
 94 6.6 5.5 8.3  
 80 7.9 6.6 10.0

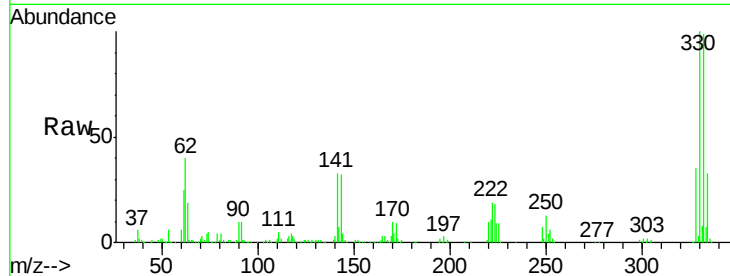




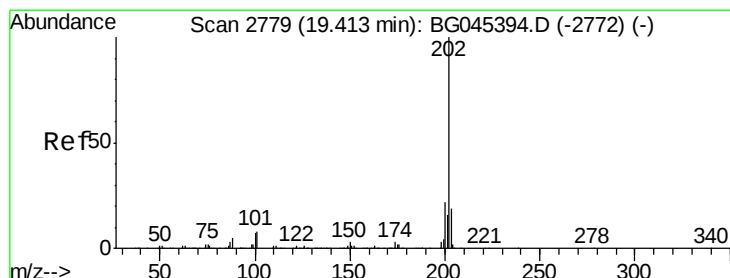
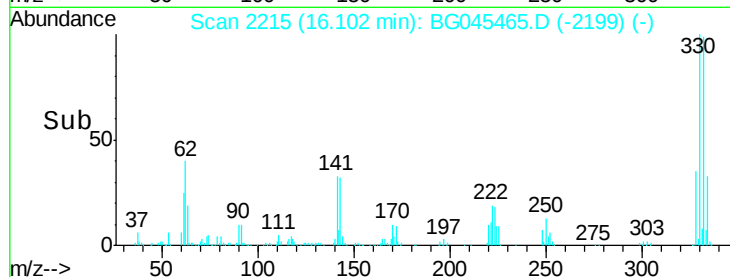
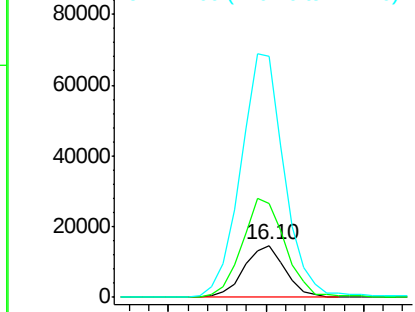
#67  
 4-Bromophenyl-phenylether  
 Concen: 3.755 ng  
 RT: 16.10 min Scan# 2215  
 Delta R.T. -0.44 min  
 Lab File: BG045465.D  
 Acq: 26 May 2020 20:16

Instrument :  
 BNA\_G  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 248     | 100   |       |        |
| 250     | 180.2 | 78.6  | 117.8# |
| 141     | 465.8 | 58.2  | 87.2#  |

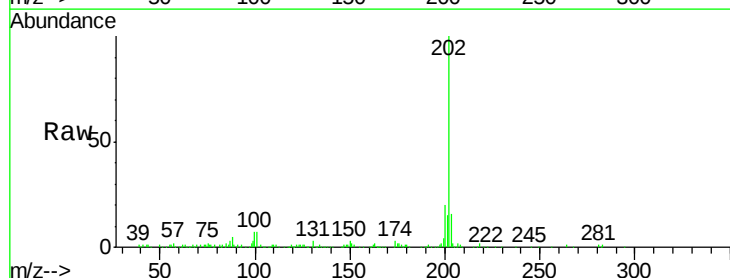


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

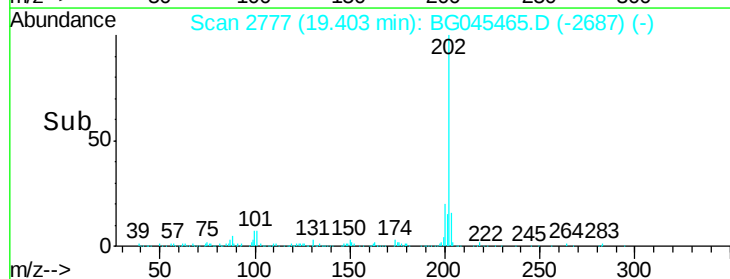
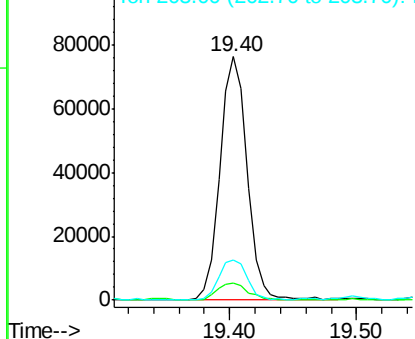


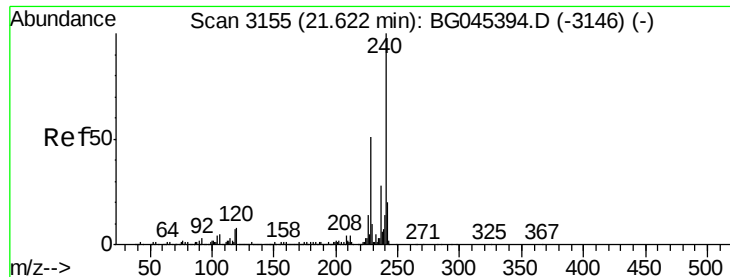
#75  
 Fluoranthene  
 Concen: 3.900 ng  
 RT: 19.40 min Scan# 2777  
 Delta R.T. -0.00 min  
 Lab File: BG045465.D  
 Acq: 26 May 2020 20:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 7.0   | 0.0   | 28.3  |
| 203     | 16.4  | 0.0   | 39.0  |



Abundance Ion 202.00 (201.70 to 202.70): E  
 Ion 101.00 (100.70 to 101.70): E  
 Ion 203.00 (202.70 to 203.70): E

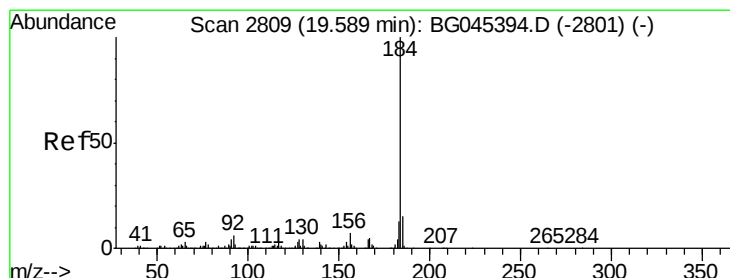
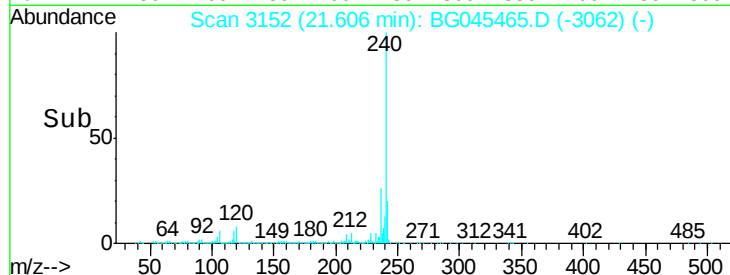
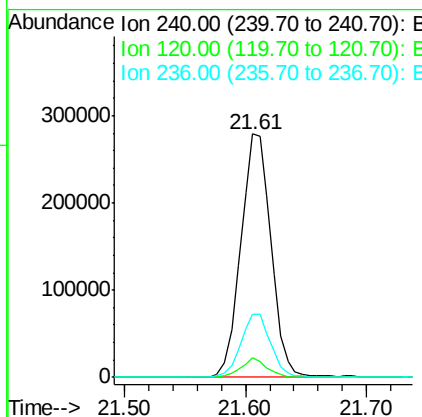
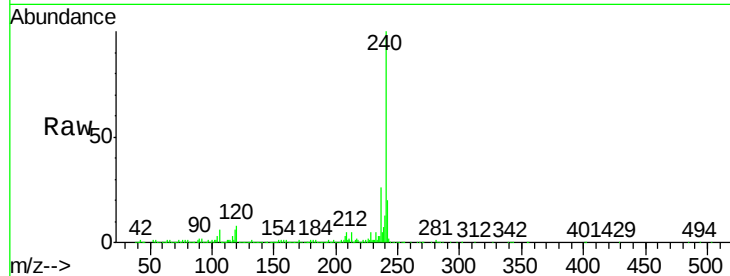




#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.61 min Scan# 3152  
Delta R.T. -0.00 min  
Lab File: BG045465.D  
Acq: 26 May 2020 20:16

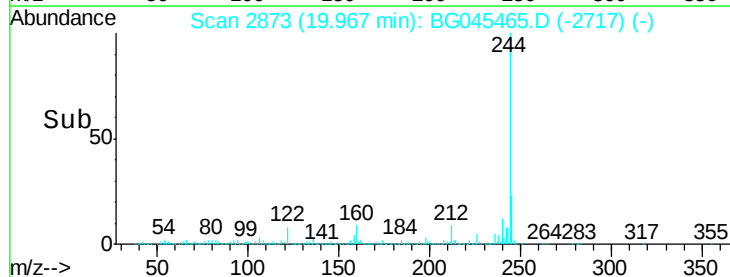
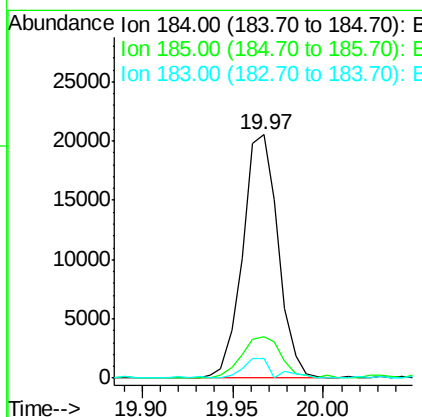
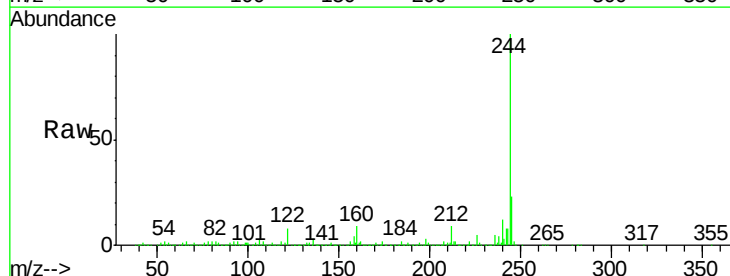
Instrument :  
BNA\_G  
ClientSampleId :

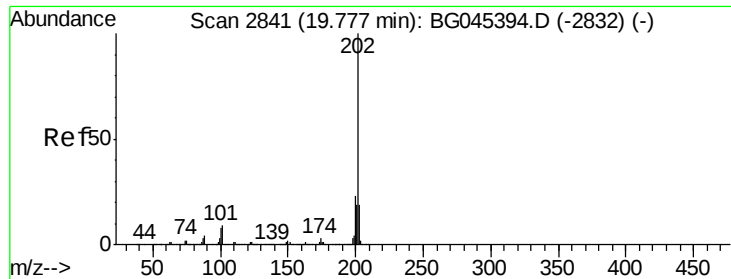
Tot Ion:240 Resp: 486511  
Ion Ratio Lower Upper  
240 100  
120 7.8 6.1 9.1  
236 26.2 22.3 33.5



#77  
Benzidine  
Concen: 2.034 ng  
RT: 19.97 min Scan# 2873  
Delta R.T. 0.38 min  
Lab File: BG045465.D  
Acq: 26 May 2020 20:16

Tgt Ion:184 Resp: 27792  
Ion Ratio Lower Upper  
184 100  
185 17.1 11.7 17.5  
183 8.2 10.2 15.4#

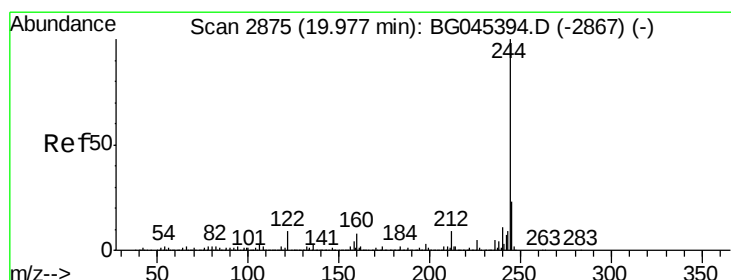
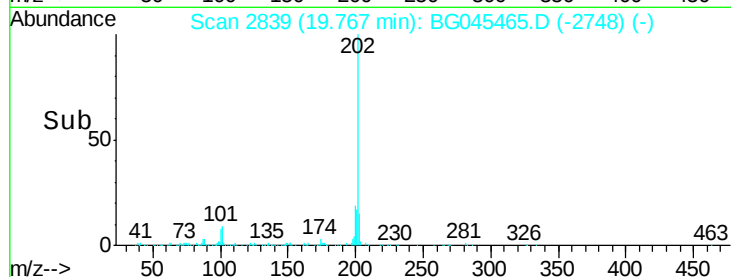
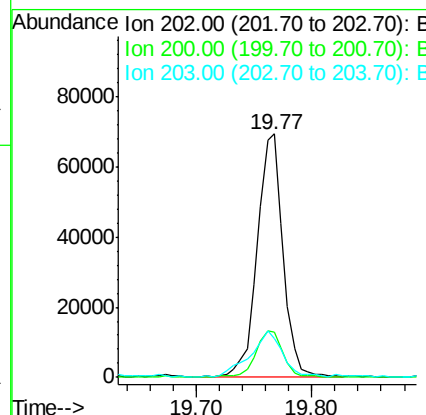
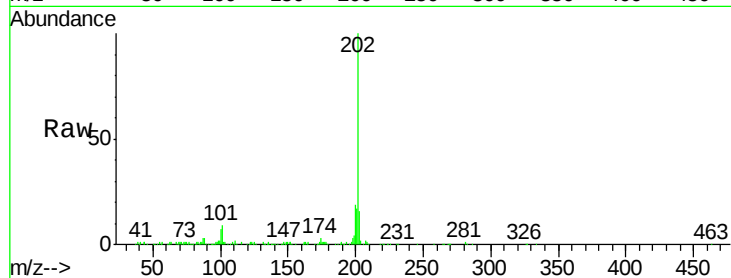




#78  
Pvrene  
Concen: 3.922 ng  
RT: 19.77 min Scan# 2839  
Delta R.T. 0.00 min  
Lab File: BG045465.D  
Acq: 26 May 2020 20:16

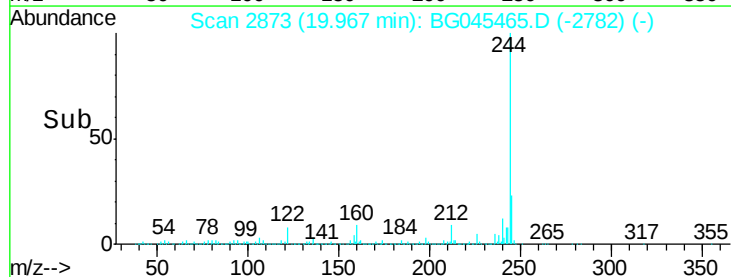
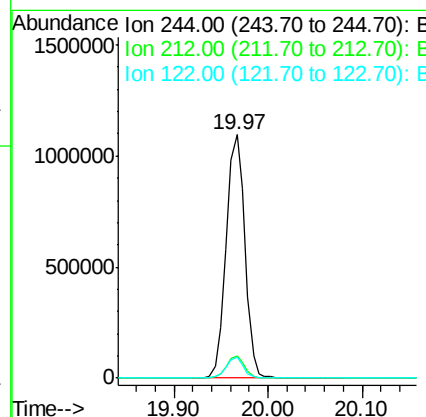
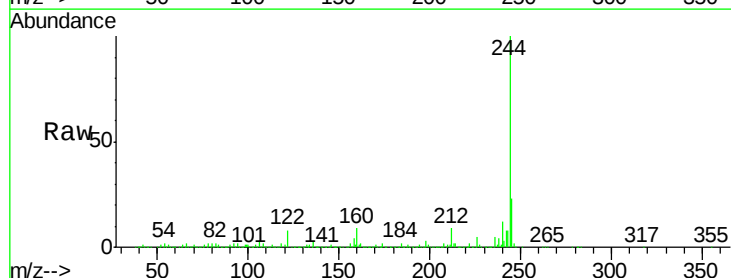
Instrument :  
BNA\_G  
ClientSampleId :

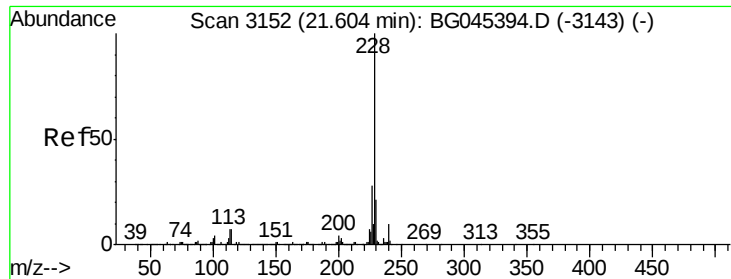
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 18.7  | 18.2  | 27.2  |
| 203     | 15.8  | 15.1  | 22.7  |



#79  
Terphenyl-d14  
Concen: 73.219 ng  
RT: 19.97 min Scan# 2873  
Delta R.T. 0.00 min  
Lab File: BG045465.D  
Acq: 26 May 2020 20:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 9.1   | 7.4   | 11.0  |
| 122     | 8.4   | 6.8   | 10.2  |





#81

Benzo(a)anthracene

Concen: 2.598 ng

RT: 21.59 min Scan# 3149

Delta R.T. -0.00 min

Lab File: BG045465.D

Acq: 26 May 2020 20:16

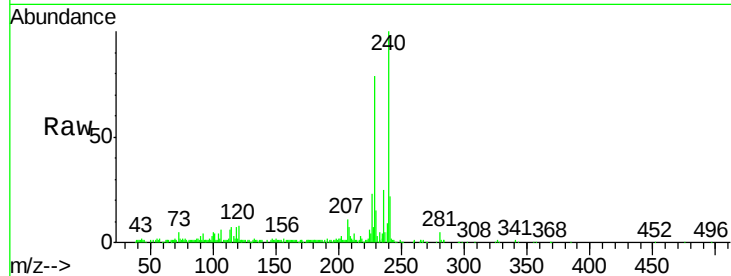
Instrument :

BNA\_G

ClientSampleId :

Tot Ion:228 Resp: 70413

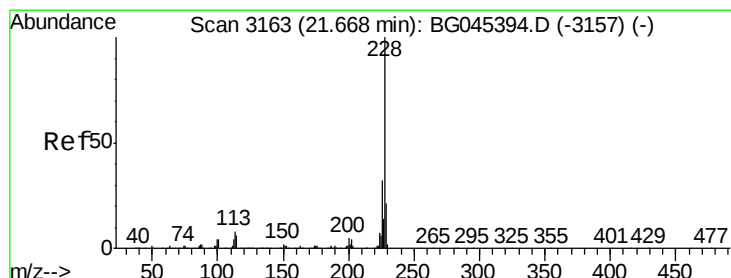
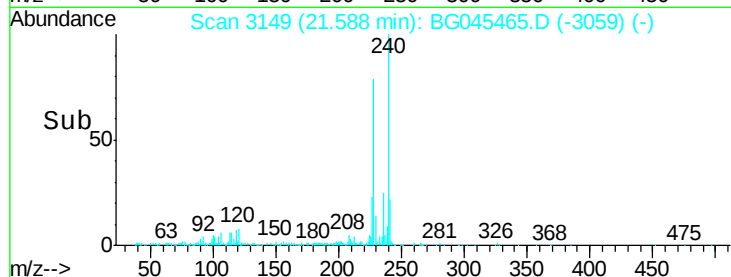
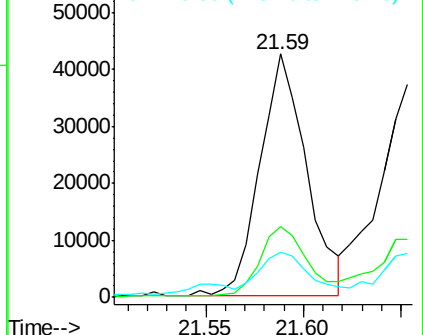
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 228 | 100   |       |       |
| 226 | 28.9  | 22.7  | 34.1  |
| 229 | 18.5  | 16.7  | 25.1  |



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#83

Chrysene

Concen: 2.560 ng

RT: 21.65 min Scan# 3160

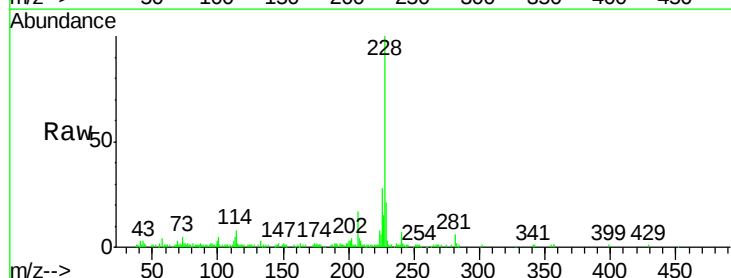
Delta R.T. -0.00 min

Lab File: BG045465.D

Acq: 26 May 2020 20:16

Tgt Ion:228 Resp: 66716

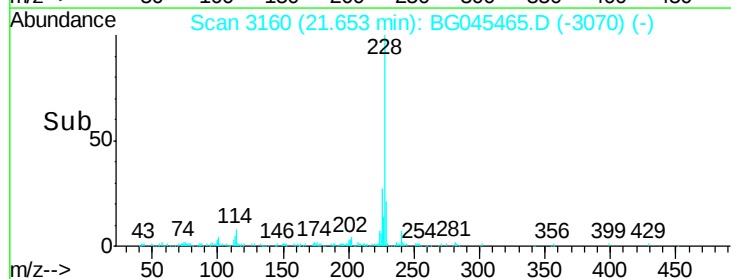
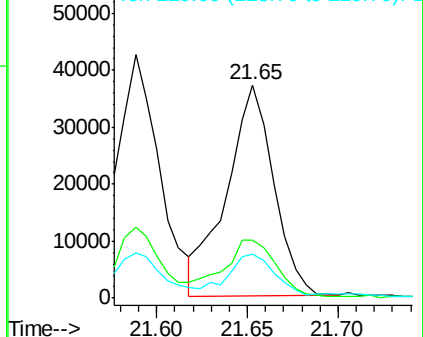
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 228 | 100   |       |       |
| 226 | 27.5  | 25.2  | 37.8  |
| 229 | 20.6  | 16.7  | 25.1  |

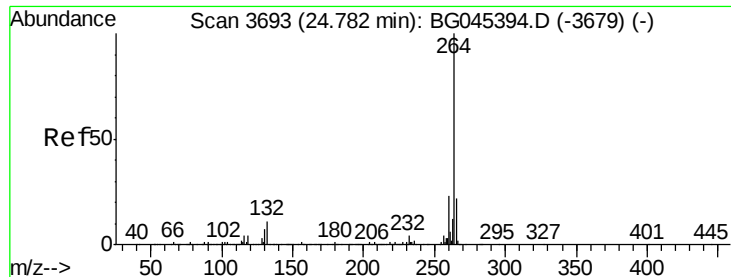


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

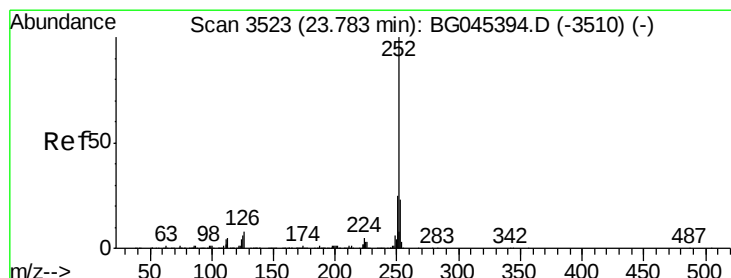
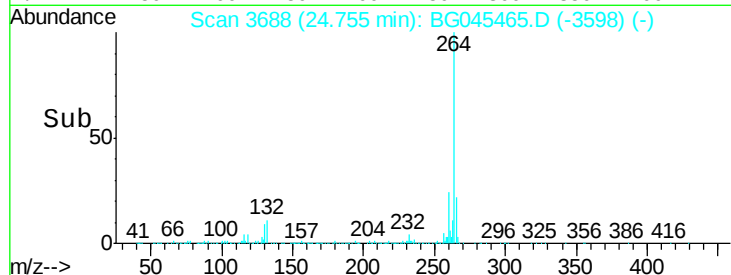
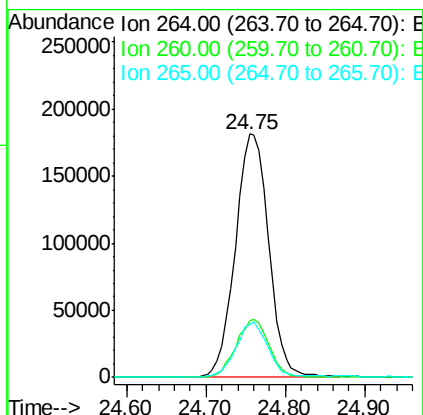
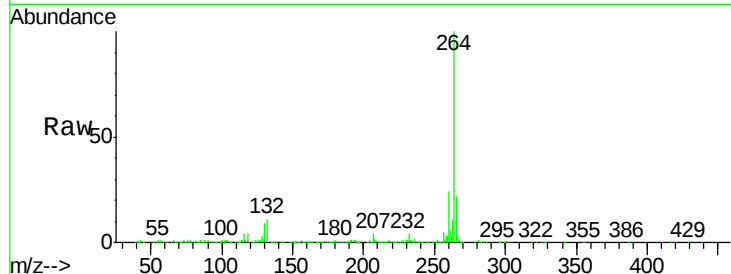




#87  
Pervlene-d12  
Concen: 20.000 ng  
RT: 24.75 min Scan# 3688  
Delta R.T. -0.00 min  
Lab File: BG045465.D  
Acq: 26 May 2020 20:16

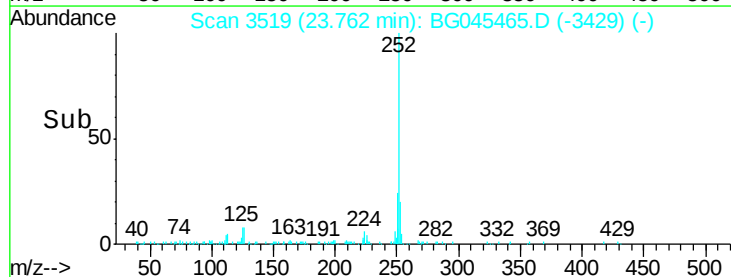
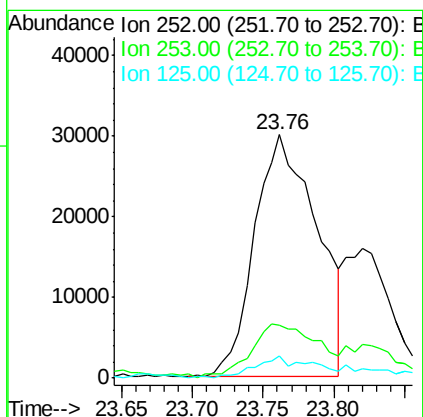
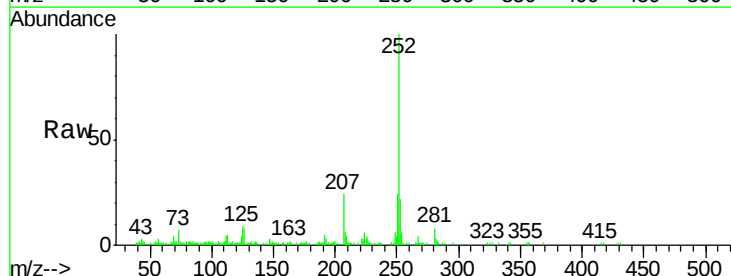
Instrument :  
BNA\_G  
ClientSampled :

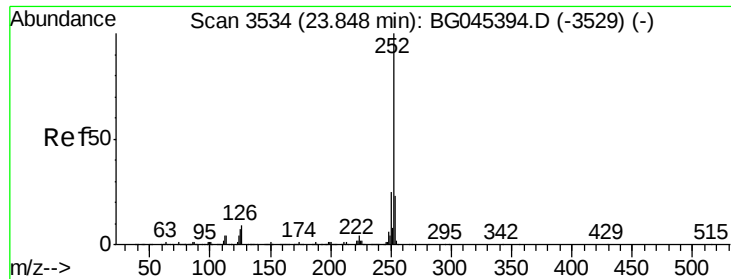
|             |       |        |
|-------------|-------|--------|
| Tot Ion:264 | Resp: | 529305 |
| Ion Ratio   | Lower | Upper  |
| 264 100     |       |        |
| 260 23.6    | 18.2  | 27.4   |
| 265 21.7    | 17.6  | 26.4   |



#88  
Benzo(b)fluoranthene  
Concen: 3.266 ng  
RT: 23.76 min Scan# 3519  
Delta R.T. -0.00 min  
Lab File: BG045465.D  
Acq: 26 May 2020 20:16

|             |       |       |
|-------------|-------|-------|
| Tgt Ion:252 | Resp: | 92715 |
| Ion Ratio   | Lower | Upper |
| 252 100     |       |       |
| 253 21.7    | 18.1  | 27.1  |
| 125 9.2     | 5.0   | 7.6#  |

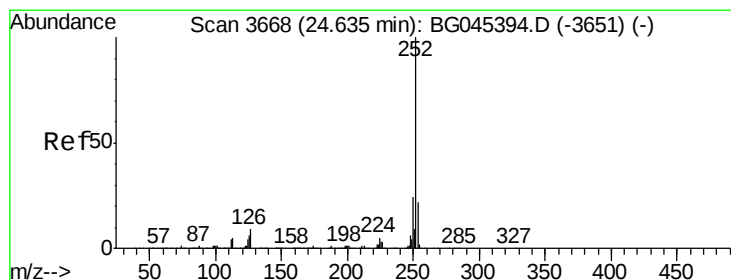
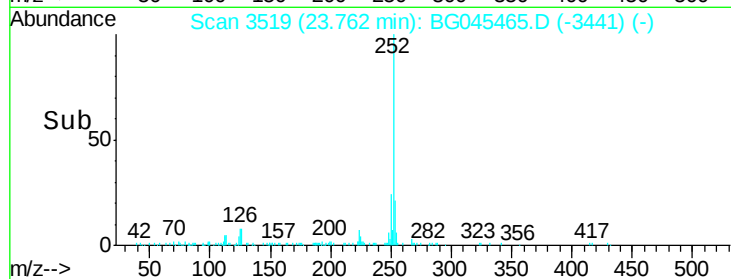
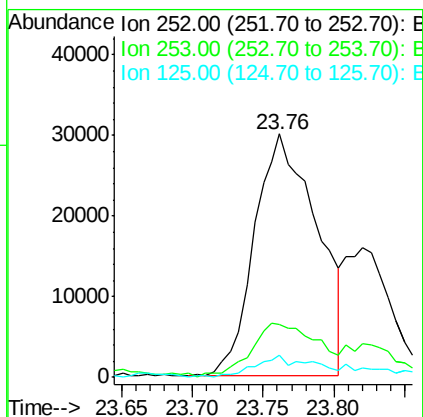
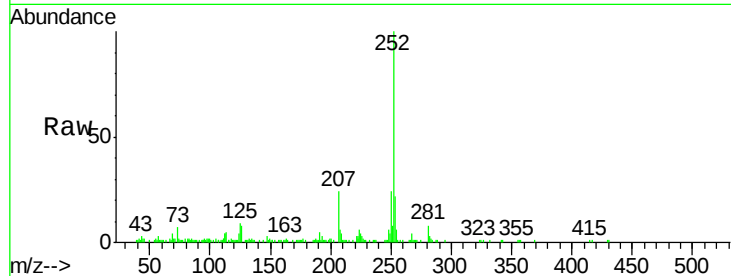




#89  
Benzo(k)fluoranthene  
Concen: 3.476 ng  
RT: 23.76 min Scan# 3519  
Delta R.T. -0.07 min  
Lab File: BG045465.D  
Acq: 26 May 2020 20:16

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:252 Resp: 92715  
Ion Ratio Lower Upper  
252 100  
253 21.7 18.4 27.6  
125 9.2 5.7 8.5#



#90  
Benzo(a)pyrene  
Concen: 2.607 ng  
RT: 24.61 min Scan# 3663  
Delta R.T. -0.01 min  
Lab File: BG045465.D  
Acq: 26 May 2020 20:16

Tgt Ion:252 Resp: 68925  
Ion Ratio Lower Upper  
252 100  
253 22.2 17.2 25.8  
125 6.1 5.0 7.6

