

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG070519\  
 Data File : BG041618.D  
 Acq On : 5 Jul 2019 19:13  
 Operator : HP/JU  
 Sample : K3581-05DL 5X  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 PE-13ADL

Quant Time: Jul 08 02:07:52 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG062619.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Jun 27 13:25:55 2019  
 Response via : Initial Calibration

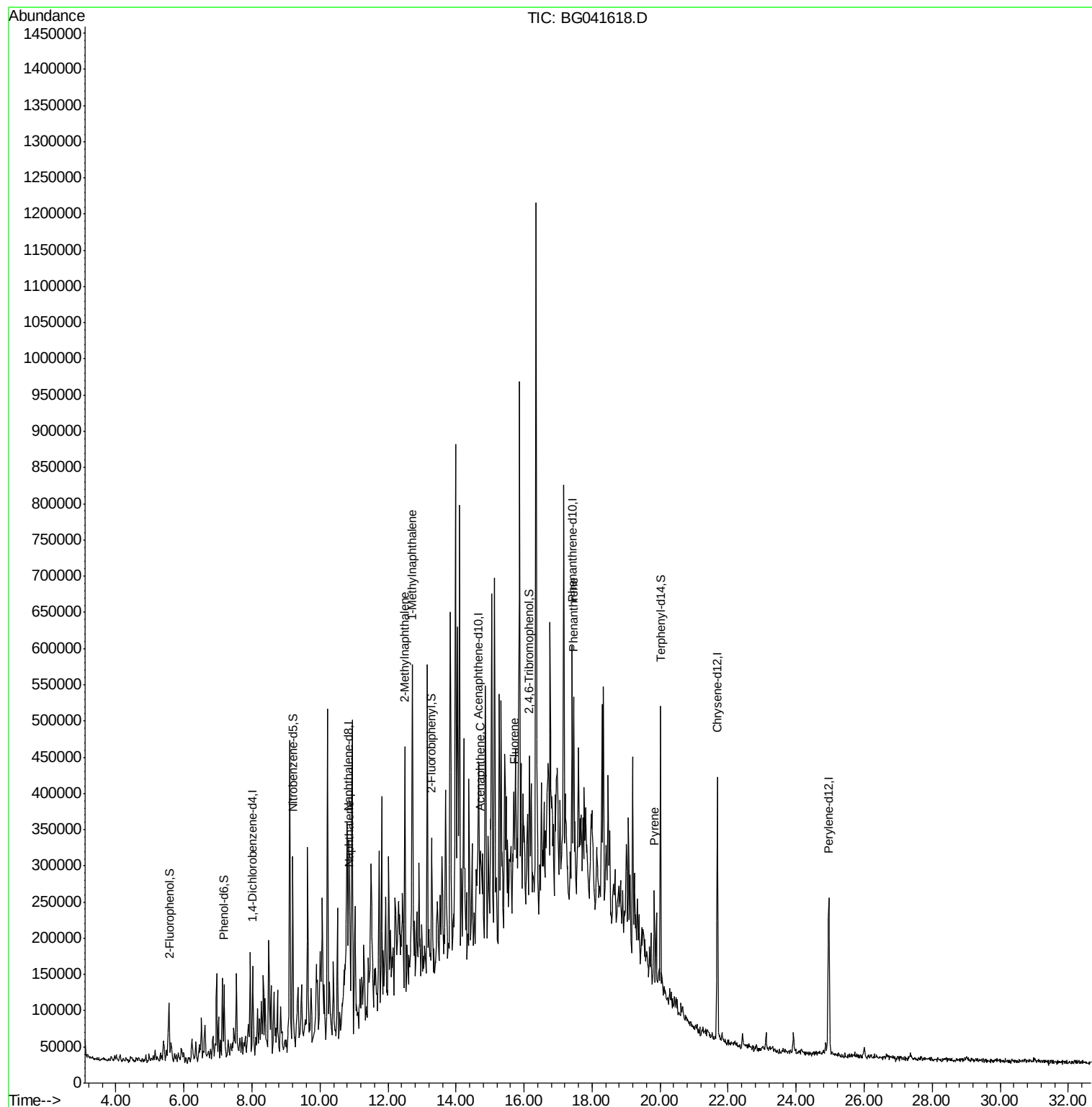
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min)     |
|-----------------------------|-------|------|----------|--------|-------|--------------|
| 1) 1,4-Dichlorobenzene-d4   | 8.02  | 152  | 30852    | 20.00  | ng    | -0.01        |
| 21) Naphthalene-d8          | 10.84 | 136  | 113021   | 20.00  | ng    | -0.02        |
| 39) Acenaphthene-d10        | 14.66 | 164  | 79362    | 20.00  | ng    | -0.01        |
| 64) Phenanthrene-d10        | 17.41 | 188  | 200887   | 20.00  | ng    | -0.01        |
| 76) Chrysene-d12            | 21.68 | 240  | 227686   | 20.00  | ng    | -0.02        |
| 87) Perylene-d12            | 24.96 | 264  | 245845   | 20.00  | ng    | -0.02        |
| System Monitoring Compounds |       |      |          |        |       |              |
| 5) 2-Fluorophenol           | 5.56  | 112  | 37426    | 21.63  | ng    | 0.00         |
| 7) Phenol-d6                | 7.18  | 99   | 55564    | 22.81  | ng    | 0.00         |
| 23) Nitrobenzene-d5         | 9.20  | 82   | 35316    | 13.03  | ng    | -0.01        |
| 42) 2,4,6-Tribromophenol    | 16.16 | 330  | 32180    | 23.75  | ng    | 0.00         |
| 45) 2-Fluorobiphenyl        | 13.28 | 172  | 97136    | 15.71  | ng    | -0.01        |
| 79) Terphenyl-d14           | 20.01 | 244  | 183778   | 17.15  | ng    | -0.01        |
| Target Compounds            |       |      |          |        |       |              |
| 31) Naphthalene             | 10.88 | 128  | 16070m   | 2.571  | ng    | Qvalue<br>97 |
| 37) 2-Methylnaphthalene     | 12.50 | 142  | 154209   | 33.396 | ng    |              |
| 38) 1-Methylnaphthalene     | 12.71 | 142  | 190547m  | 43.253 | ng    | # 77         |
| 52) Acenaphthene            | 14.73 | 154  | 14729    | 3.090  | ng    |              |
| 58) Fluorene                | 15.71 | 166  | 33006    | 4.999  | ng    | # 91         |
| 71) Phenanthrene            | 17.45 | 178  | 152567   | 13.784 | ng    | 98           |
| 78) Pyrene                  | 19.83 | 202  | 36573    | 2.353  | ng    | # 86         |

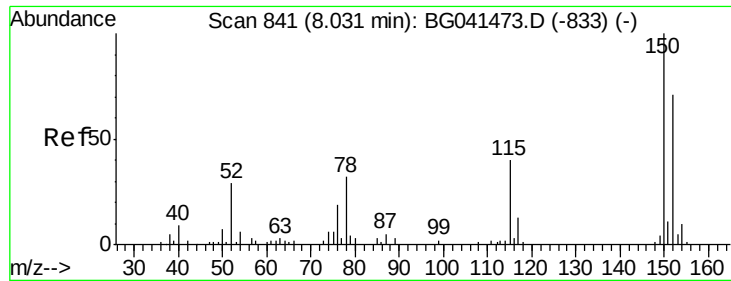
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
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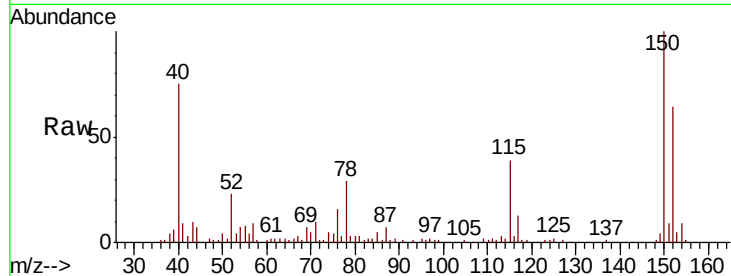


#1

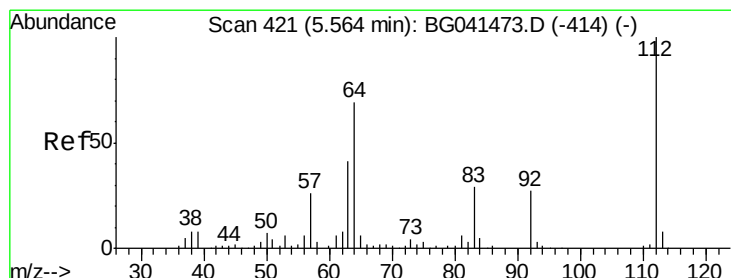
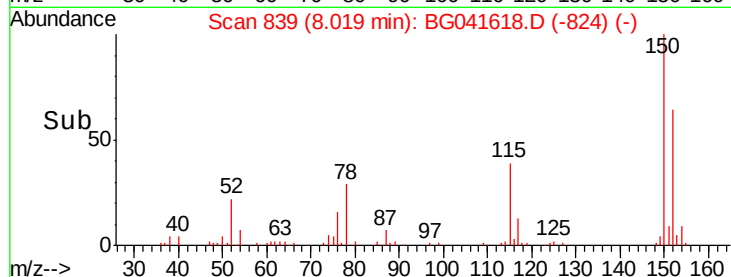
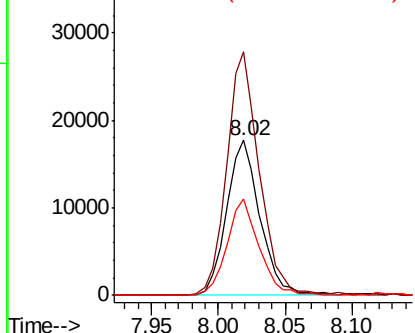
1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 8.02 min Scan# 839  
 Delta R.T. -0.01 min  
 Lab File: BG041618.D  
 Acq: 5 Jul 2019 19:13

Instrument :  
 BNA\_G  
 ClientSampleId :  
 PE-13ADL

Tot Ion:152 Resp: 30852  
 Ion Ratio Lower Upper  
 152 100  
 150 157.4 112.4 168.6  
 115 62.1 44.6 66.8



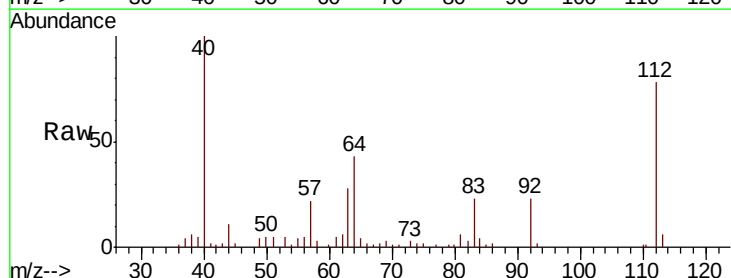
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



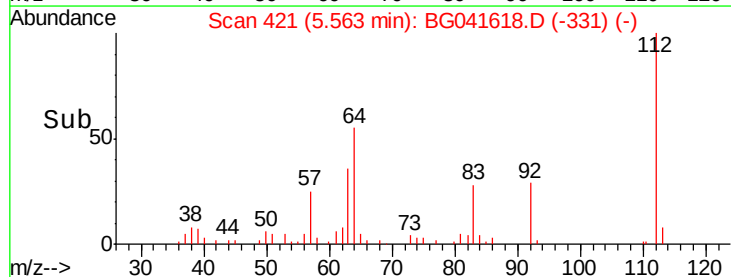
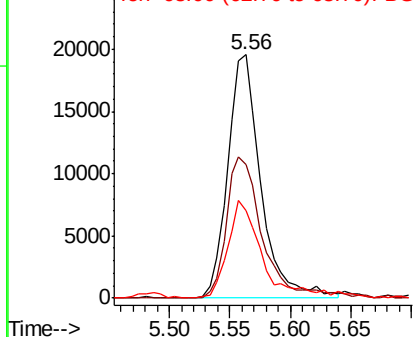
#5

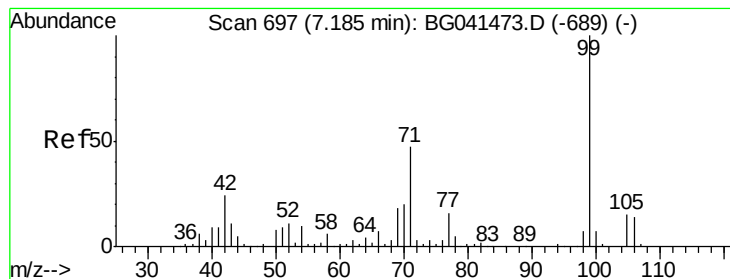
2-Fluorophenol  
 Concen: 21.627 ng  
 RT: 5.56 min Scan# 421  
 Delta R.T. -0.00 min  
 Lab File: BG041618.D  
 Acq: 5 Jul 2019 19:13

Tgt Ion:112 Resp: 37426  
 Ion Ratio Lower Upper  
 112 100  
 64 54.9 55.1 82.7#  
 63 35.8 32.4 48.6



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





#7

Phenol-d6

Concen: 22.809 ng

RT: 7.18 min Scan# 696

Delta R.T. -0.01 min

Lab File: BG041618.D

Acq: 5 Jul 2019 19:13

Instrument :

BNA\_G

ClientSampled :

PE-13ADL

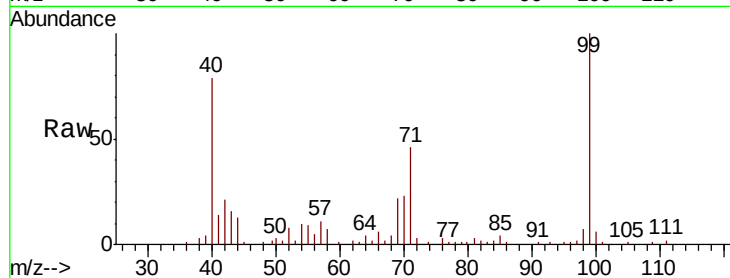
Tot Ion: 99 Resp: 55564

Ion Ratio Lower Upper

99 100

42 21.4 19.0 28.6

71 45.7 37.4 56.2

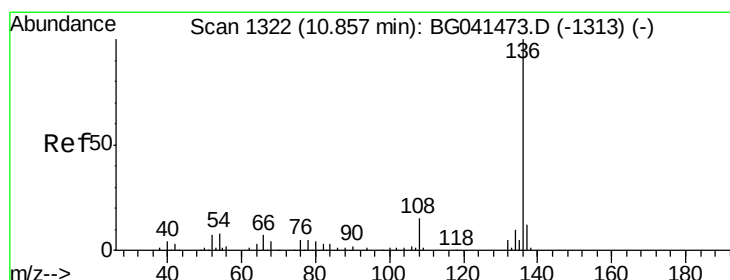
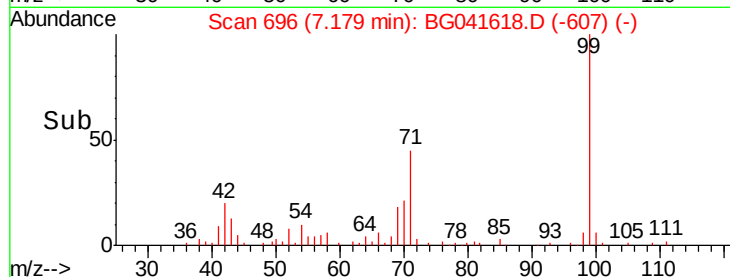
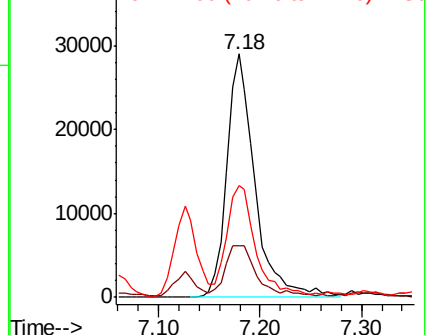


Abundance

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



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.84 min Scan# 1319

Delta R.T. -0.02 min

Lab File: BG041618.D

Acq: 5 Jul 2019 19:13

Tgt Ion: 136 Resp: 113021

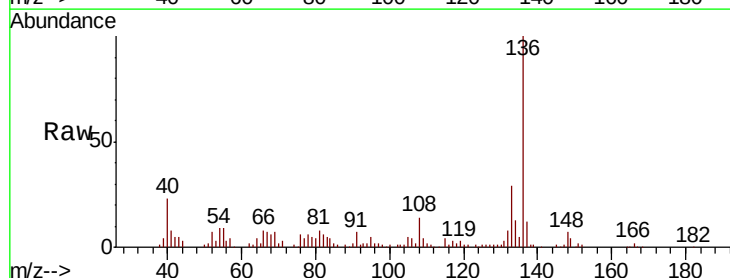
Ion Ratio Lower Upper

136 100

137 12.2 9.3 13.9

54 9.3 7.1 10.7

68 5.8 3.3 4.9#



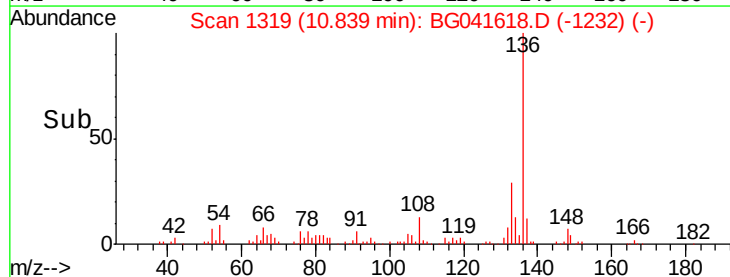
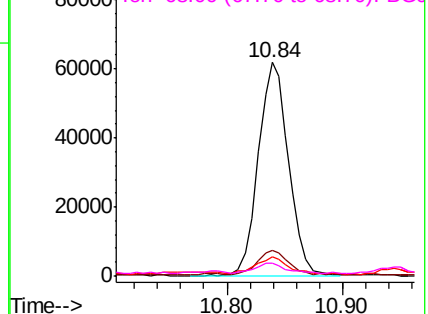
Abundance

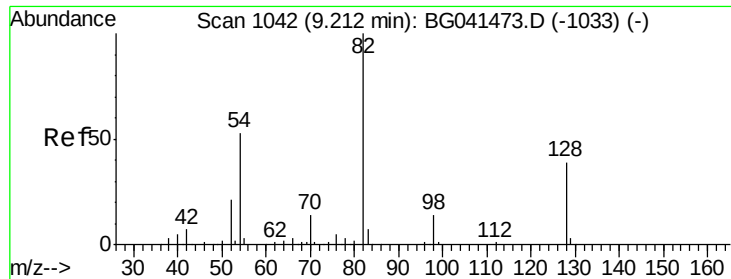
Ion 136.00 (135.70 to 136.70): BGC

Ion 137.00 (136.70 to 137.70): BGC

Ion 54.00 (53.70 to 54.70): BGC

Ion 68.00 (67.70 to 68.70): BGC

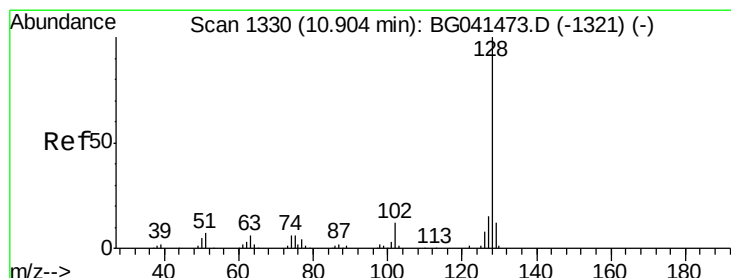
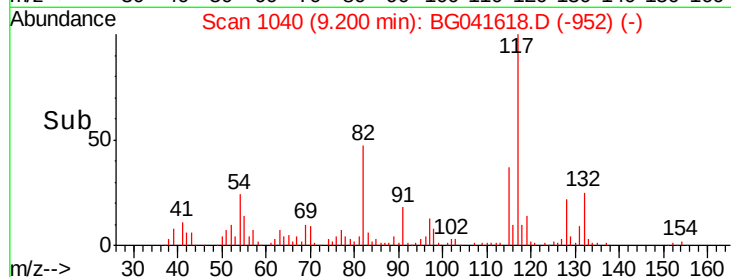
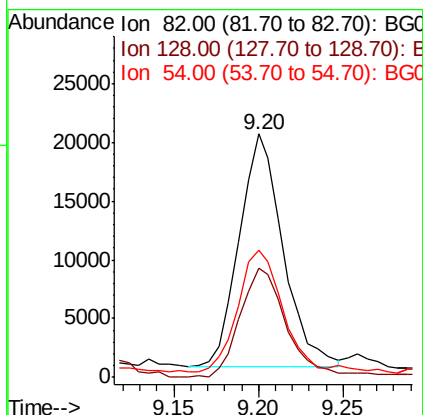
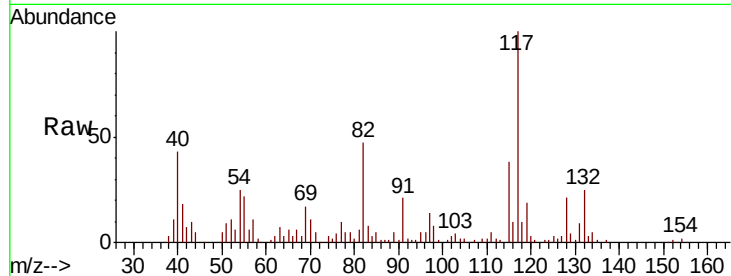




#23  
Nitrobenzene-d5  
Concen: 13.032 ng  
RT: 9.20 min Scan# 1040  
Delta R.T. -0.01 min  
Lab File: BG041618.D  
Acq: 5 Jul 2019 19:13

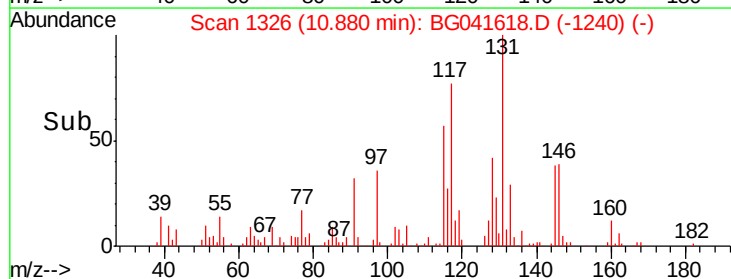
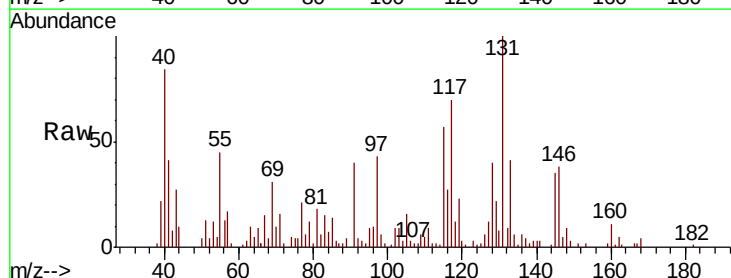
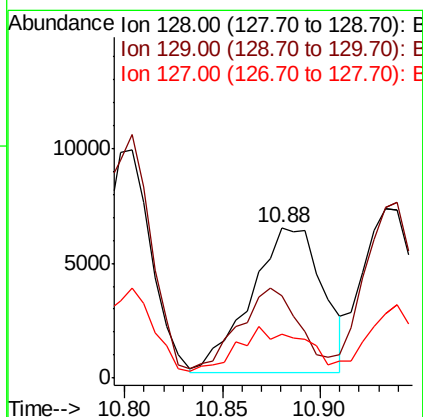
Instrument :  
BNA\_G  
ClientSampled :  
PE-13ADL

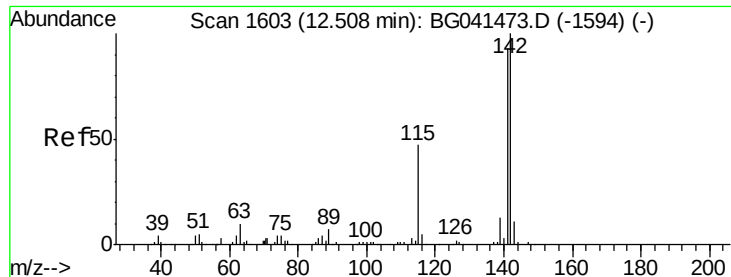
| Tot Ion   | 82    | Resp  | 35316 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 82        | 100   |       |       |
| 128       | 44.9  | 30.9  | 46.3  |
| 54        | 52.3  | 42.2  | 63.2  |



#31  
Naphthalene  
Concen: 2.571 ng m  
RT: 10.88 min Scan# 1326  
Delta R.T. -0.02 min  
Lab File: BG041618.D  
Acq: 5 Jul 2019 19:13

| Tgt Ion   | 128   | Resp  | 16070 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 129       | 55.1  | 9.7   | 14.5# |
| 127       | 29.4  | 11.6  | 17.4# |

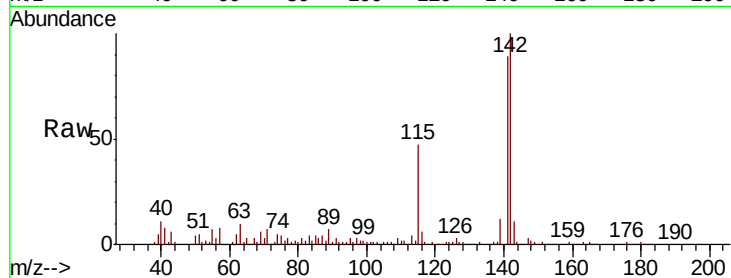




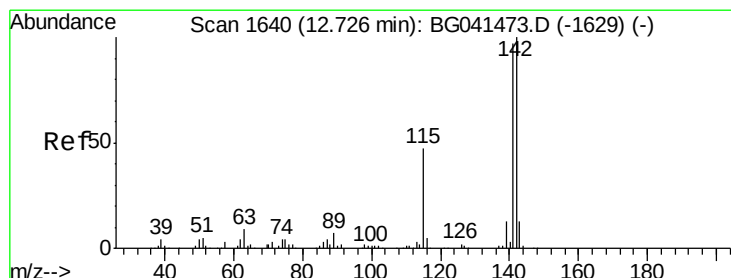
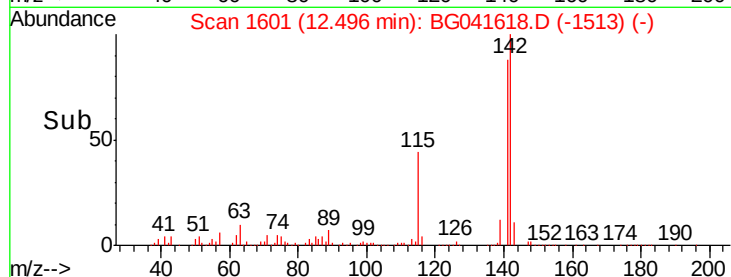
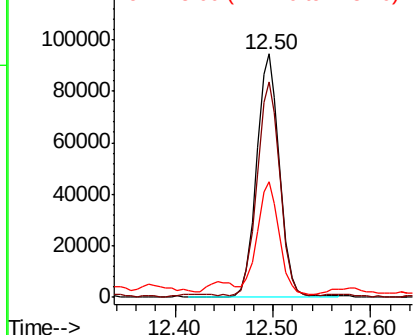
#37  
2-Methylnaphthalene  
Concen: 33.396 ng  
RT: 12.50 min Scan# 1601  
Delta R.T. -0.01 min  
Lab File: BG041618.D  
Acq: 5 Jul 2019 19:13

Instrument :  
BNA\_G  
ClientSampleId :  
PE-13ADL

Tot Ion:142 Resp: 154209  
Ion Ratio Lower Upper  
142 100  
141 88.7 74.8 112.2  
115 47.3 38.0 57.0

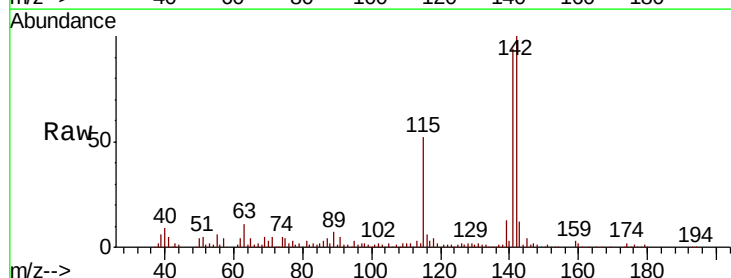


Abundance Ion 142.00 (141.70 to 142.70): E  
Ion 141.00 (140.70 to 141.70): E  
Ion 115.00 (114.70 to 115.70): E

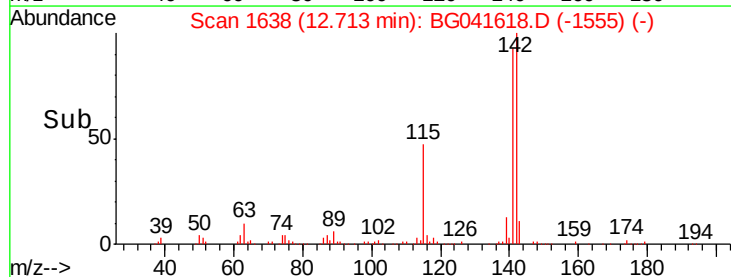
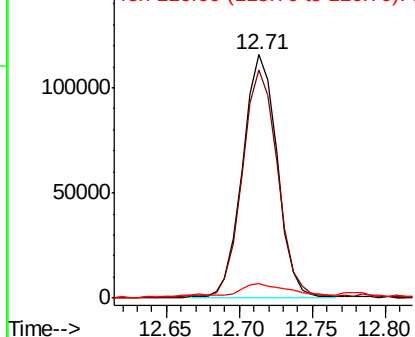


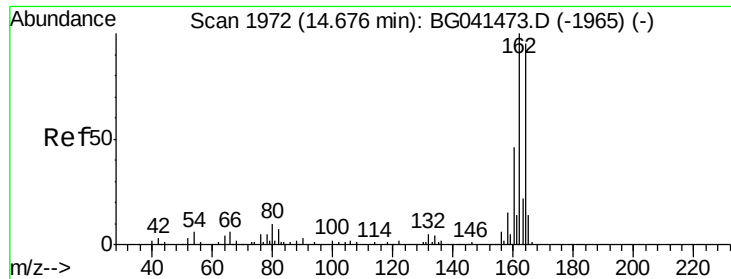
#38  
1-Methylnaphthalene  
Concen: 43.253 ng m  
RT: 12.71 min Scan# 1638  
Delta R.T. -0.01 min  
Lab File: BG041618.D  
Acq: 5 Jul 2019 19:13

Tgt Ion:142 Resp: 190547  
Ion Ratio Lower Upper  
142 100  
141 93.6 77.4 116.2  
116 5.9 3.8 5.8#



Abundance Ion 142.00 (141.70 to 142.70): E  
Ion 141.00 (140.70 to 141.70): E  
Ion 116.00 (115.70 to 116.70): E

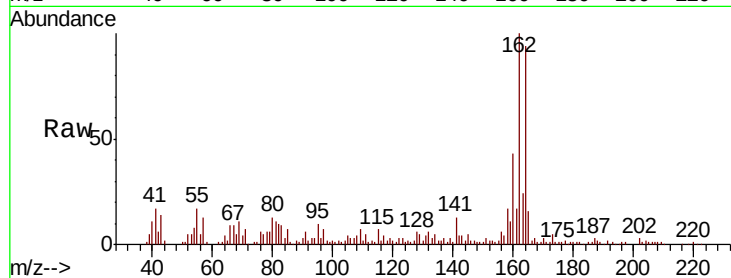




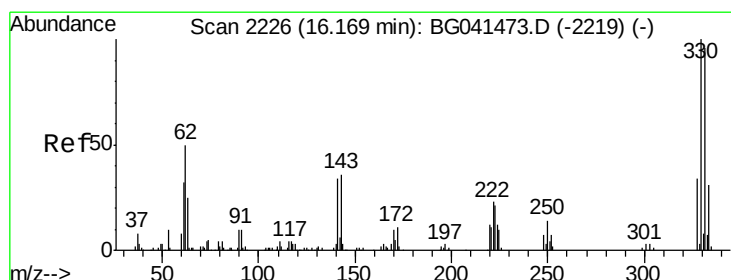
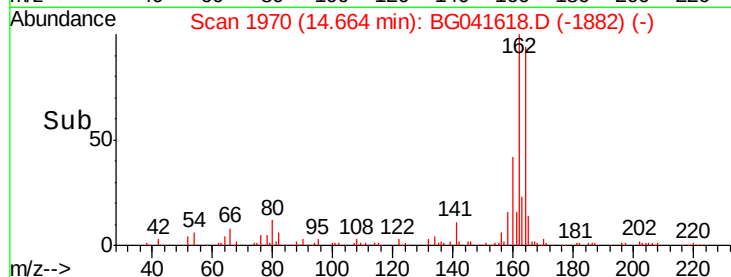
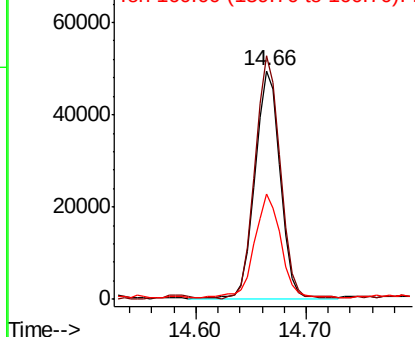
#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.66 min Scan# 1970  
Delta R.T. -0.01 min  
Lab File: BG041618.D  
Acq: 5 Jul 2019 19:13

Instrument :  
BNA\_G  
ClientSampleId :  
PE-13ADL

Tot Ion:164 Resp: 79362  
Ion Ratio Lower Upper  
164 100  
162 106.6 84.4 126.6  
160 46.4 38.8 58.2

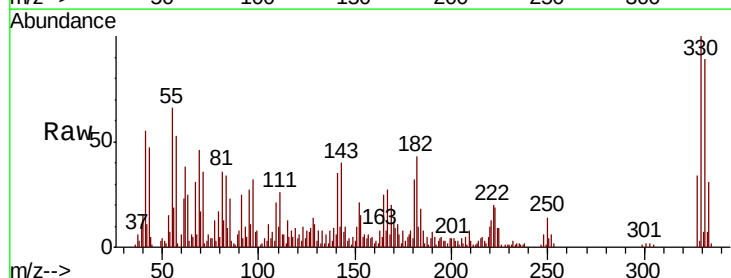


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

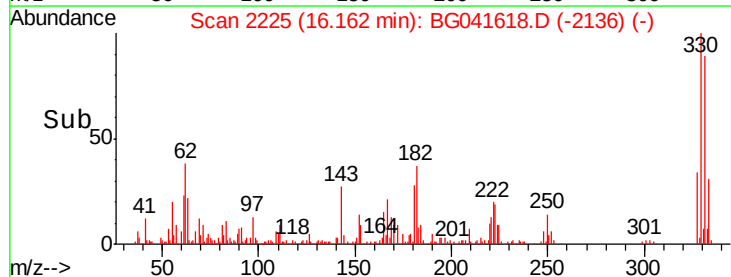
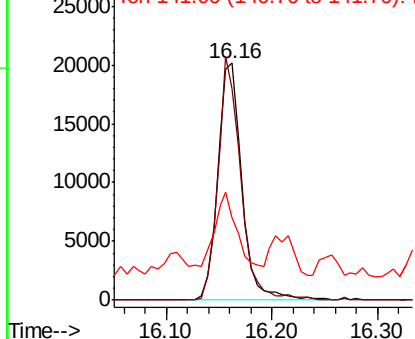


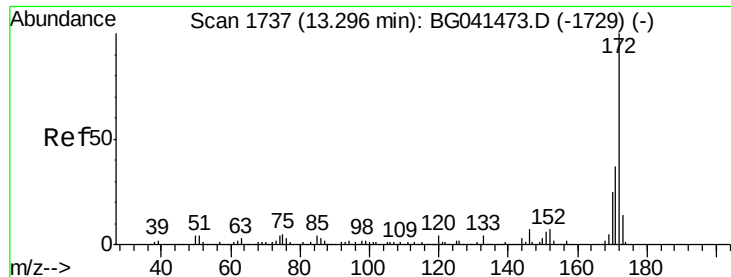
#42  
2,4,6-Tribromophenol  
Concen: 23.748 ng  
RT: 16.16 min Scan# 2225  
Delta R.T. -0.01 min  
Lab File: BG041618.D  
Acq: 5 Jul 2019 19:13

Tgt Ion:330 Resp: 32180  
Ion Ratio Lower Upper  
330 100  
332 96.3 75.5 113.3  
141 28.9 27.8 41.6



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

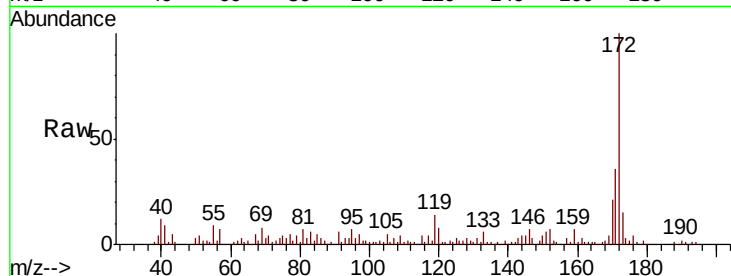




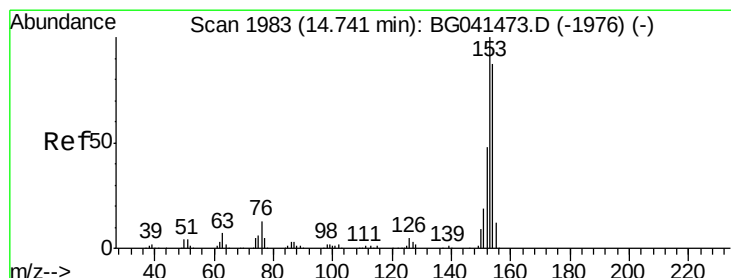
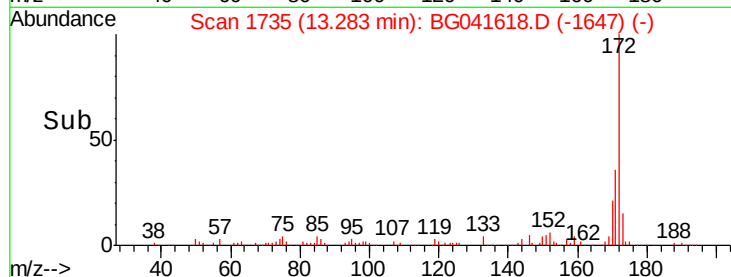
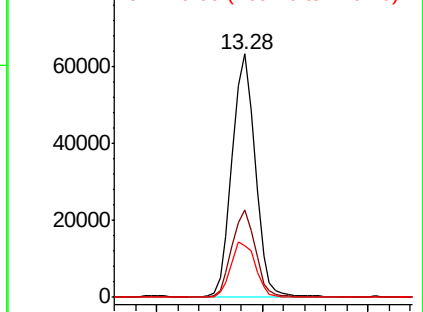
#45  
2-Fluorobiphenyl  
Concen: 15.707 ng  
RT: 13.28 min Scan# 1735  
Delta R.T. -0.01 min  
Lab File: BG041618.D  
Acq: 5 Jul 2019 19:13

Instrument :  
BNA\_G  
ClientSampleId :  
PE-13ADL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.7  | 29.6  | 44.4  |
| 170     | 21.4  | 20.0  | 30.0  |

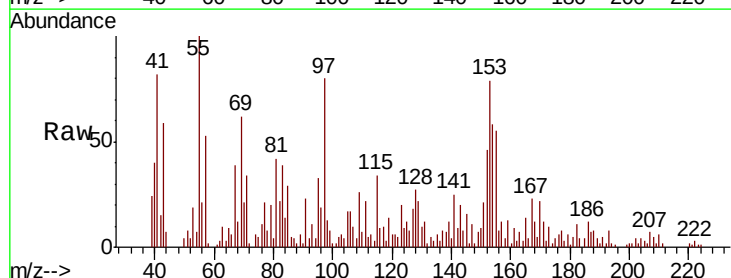


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

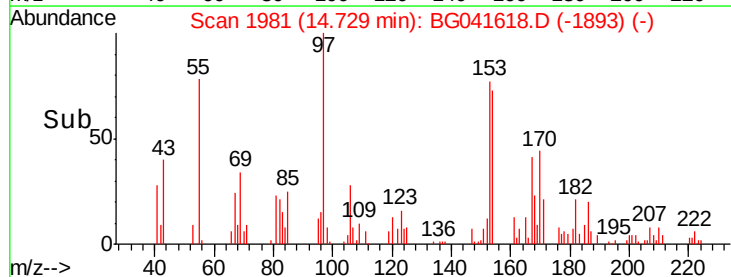
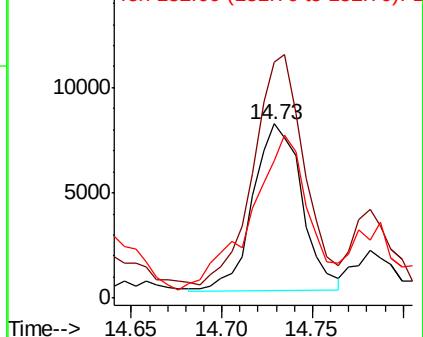


#52  
Acenaphthene  
Concen: 3.090 ng  
RT: 14.73 min Scan# 1981  
Delta R.T. -0.01 min  
Lab File: BG041618.D  
Acq: 5 Jul 2019 19:13

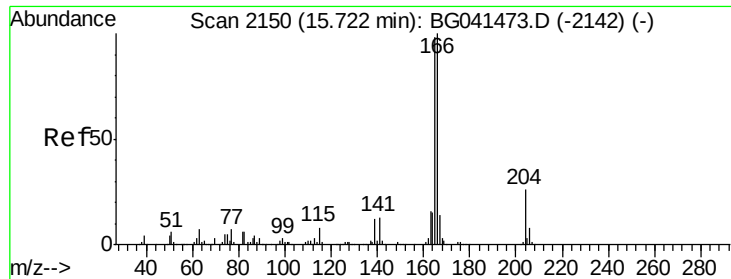
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 135.6 | 92.2  | 138.4 |
| 152     | 79.2  | 44.1  | 66.1  |



Abundance Ion 154.00 (153.70 to 154.70): E  
Ion 153.00 (152.70 to 153.70): E  
Ion 152.00 (151.70 to 152.70): E



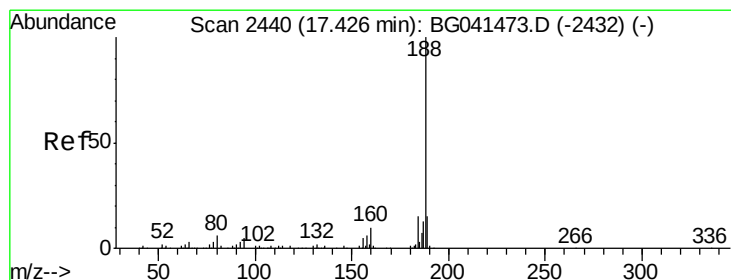
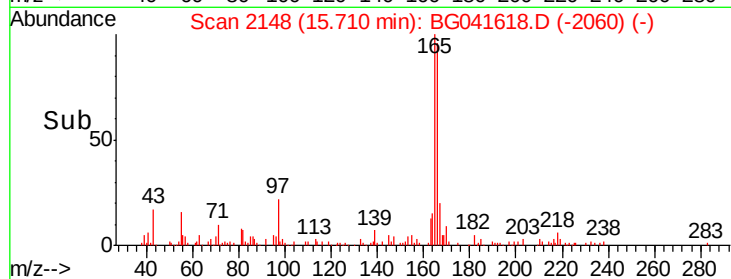
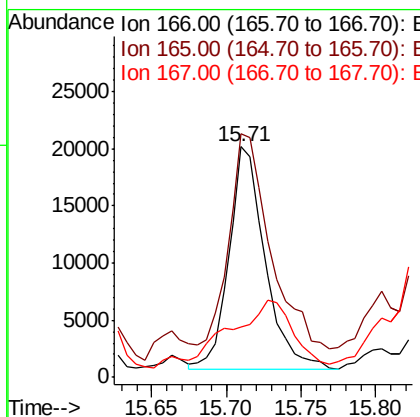
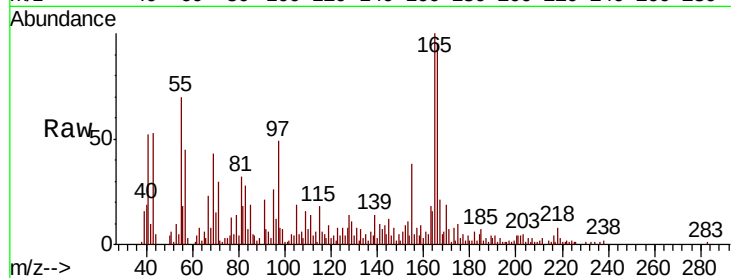




#58  
 Fluorene  
 Concen: 4.999 ng  
 RT: 15.71 min Scan# 2148  
 Delta R.T. -0.01 min  
 Lab File: BG041618.D  
 Acq: 5 Jul 2019 19:13

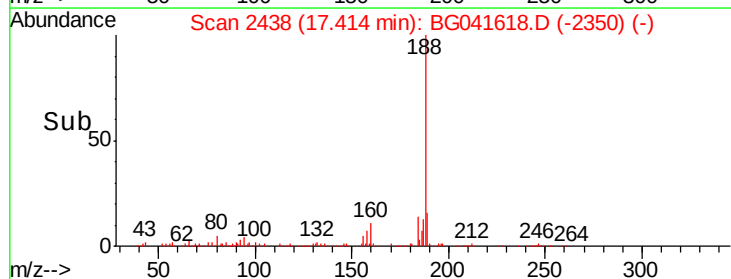
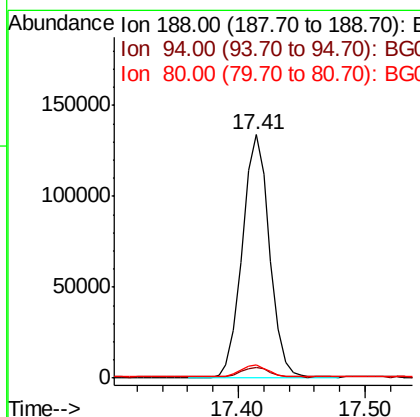
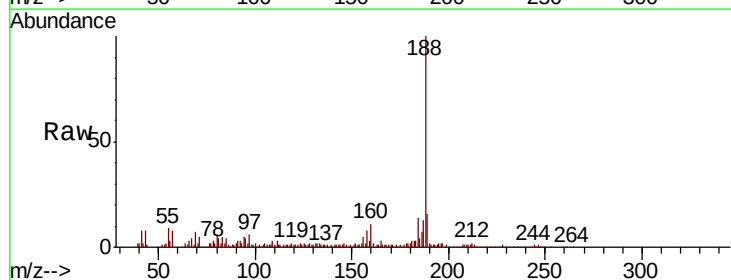
Instrument :  
 BNA\_G  
 ClientSampleId :  
 PE-13ADL

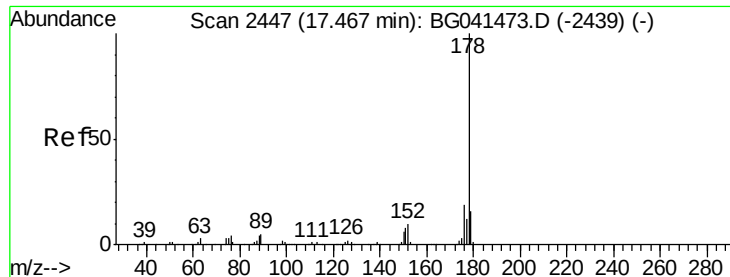
Tot Ion:166 Resp: 33006  
 Ion Ratio Lower Upper  
 166 100  
 165 105.8 78.6 117.8  
 167 21.9 11.4 17.0#



#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.41 min Scan# 2438  
 Delta R.T. -0.01 min  
 Lab File: BG041618.D  
 Acq: 5 Jul 2019 19:13

Tgt Ion:188 Resp: 200887  
 Ion Ratio Lower Upper  
 188 100  
 94 4.6 3.8 5.8  
 80 5.6 4.8 7.2

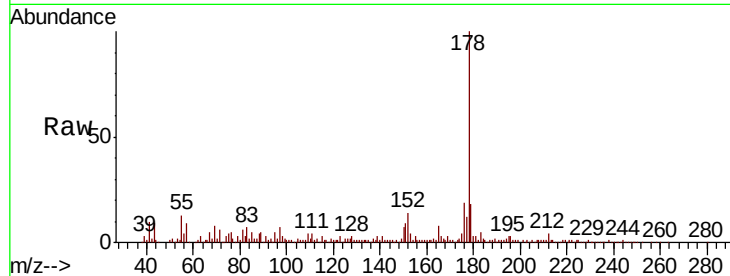




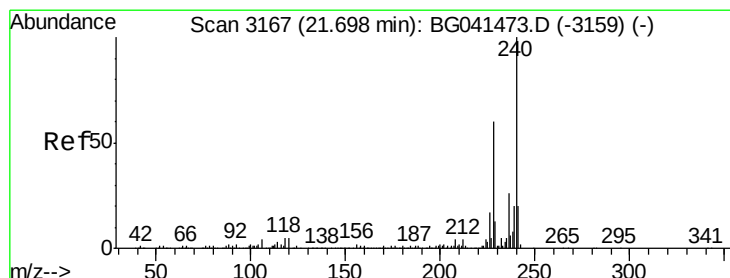
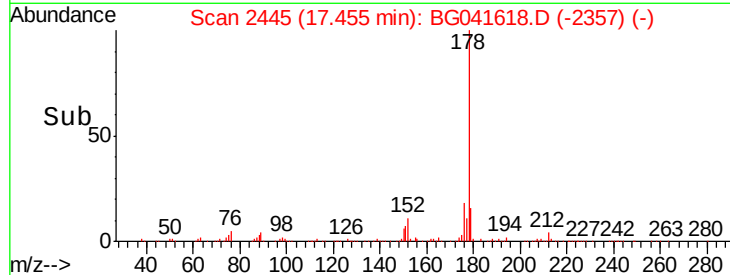
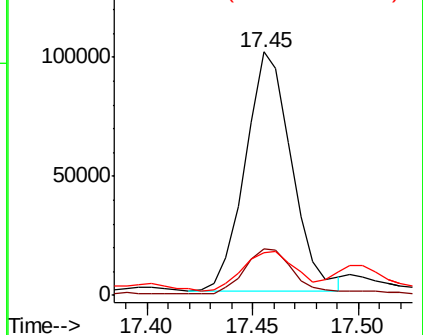
#71  
Phenanthrene  
Concen: 13.784 ng  
RT: 17.45 min Scan# 2445  
Delta R.T. -0.01 min  
Lab File: BG041618.D  
Acq: 5 Jul 2019 19:13

Instrument :  
BNA\_G  
ClientSampleId :  
PE-13ADL

Tot Ion:178 Resp: 152567  
Ion Ratio Lower Upper  
178 100  
176 19.0 15.4 23.0  
179 17.8 13.0 19.4

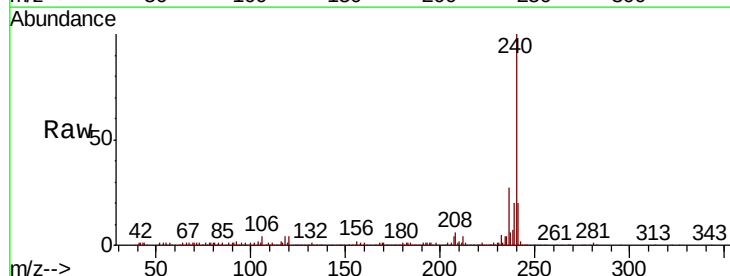


Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 176.00 (175.70 to 176.70): E  
Ion 179.00 (178.70 to 179.70): E

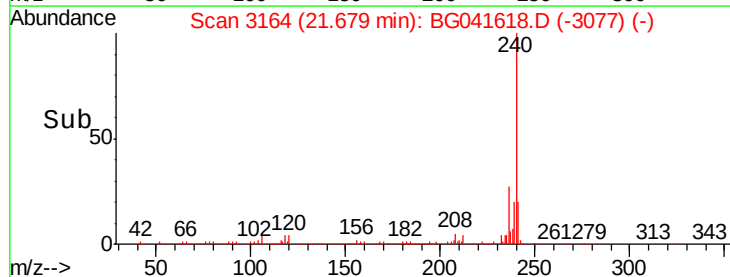
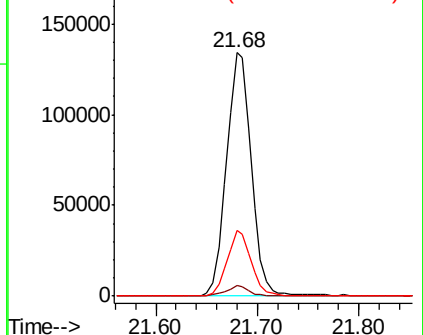


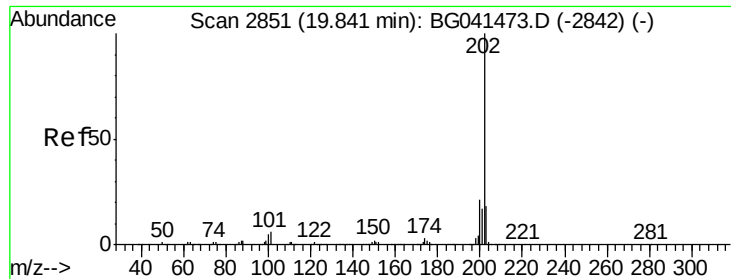
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.68 min Scan# 3164  
Delta R.T. -0.02 min  
Lab File: BG041618.D  
Acq: 5 Jul 2019 19:13

Tgt Ion:240 Resp: 227686  
Ion Ratio Lower Upper  
240 100  
120 4.2 3.7 5.5  
236 26.7 20.8 31.2



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

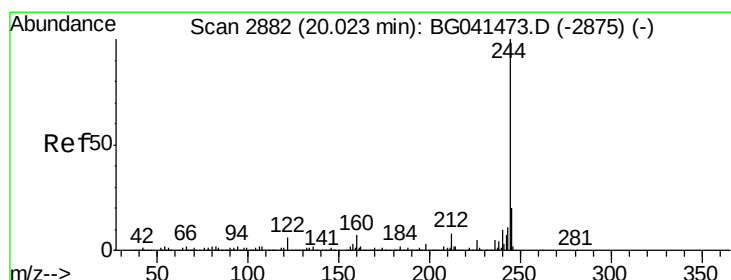
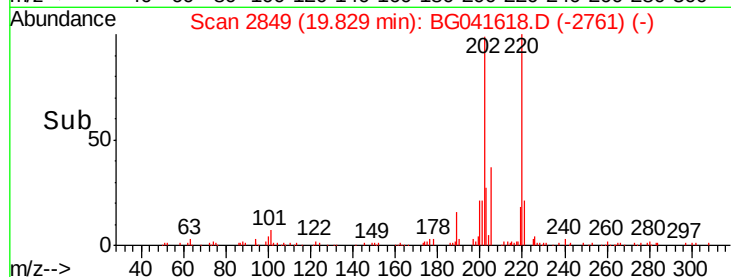
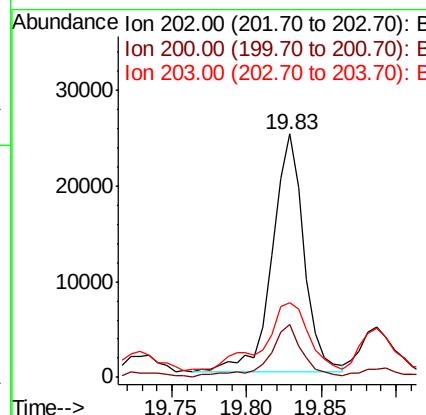
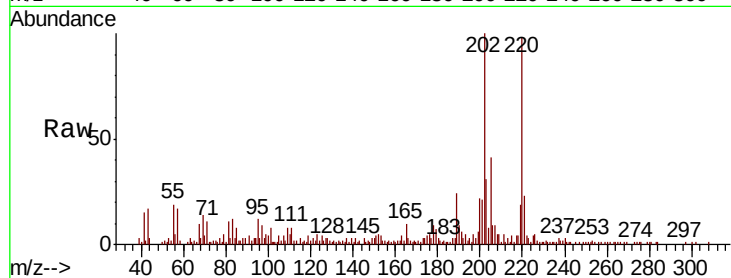




#78  
Pvrene  
Concen: 2.353 ng  
RT: 19.83 min Scan# 2849  
Delta R.T. -0.01 min  
Lab File: BG041618.D  
Acq: 5 Jul 2019 19:13

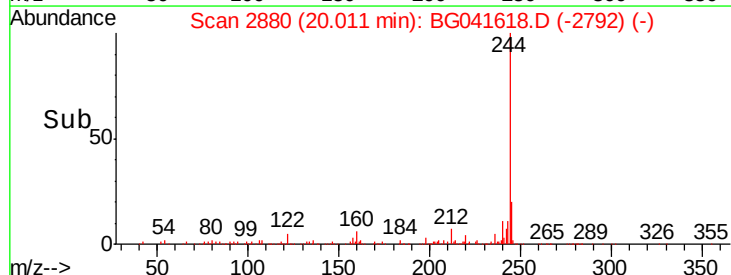
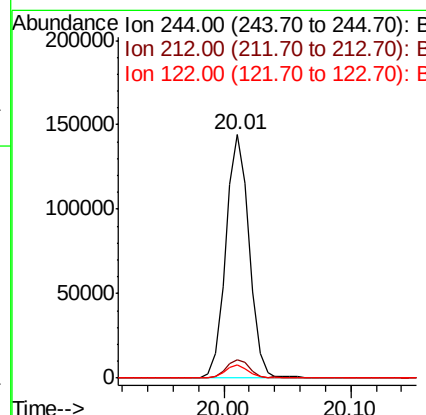
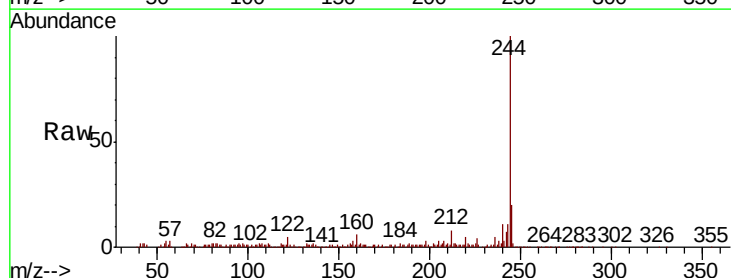
Instrument :  
BNA\_G  
ClientSampleId :  
PE-13ADL

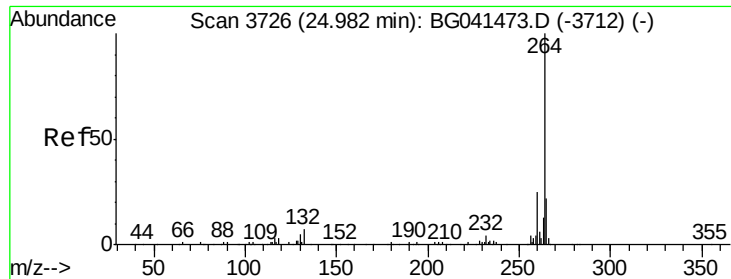
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 21.9  | 16.8  | 25.2  |
| 203     | 30.6  | 14.2  | 21.4  |



#79  
Terphenyl-d14  
Concen: 17.153 ng  
RT: 20.01 min Scan# 2880  
Delta R.T. -0.01 min  
Lab File: BG041618.D  
Acq: 5 Jul 2019 19:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 7.7   | 6.2   | 9.4   |
| 122     | 5.2   | 4.8   | 7.2   |





#87  
Pervlone-d12  
Concen: 20.000 ng  
RT: 24.96 min Scan# 3722  
Delta R.T. -0.02 min  
Lab File: BG041618.D  
Acq: 5 Jul 2019 19:13

Instrument :  
BNA\_G  
ClientSampleId :  
PE-13ADL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.2  | 19.7  | 29.5  |
| 265     | 22.3  | 17.4  | 26.2  |

