

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG120618\  
 Data File : BG038384.D  
 Acq On : 6 Dec 2018 14:49  
 Operator : JU/SJ  
 Sample : J6003-23  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 NON-UST-03R-C

Quant Time: Dec 06 16:10:35 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG120418.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Dec 04 17:15:40 2018  
 Response via : Initial Calibration

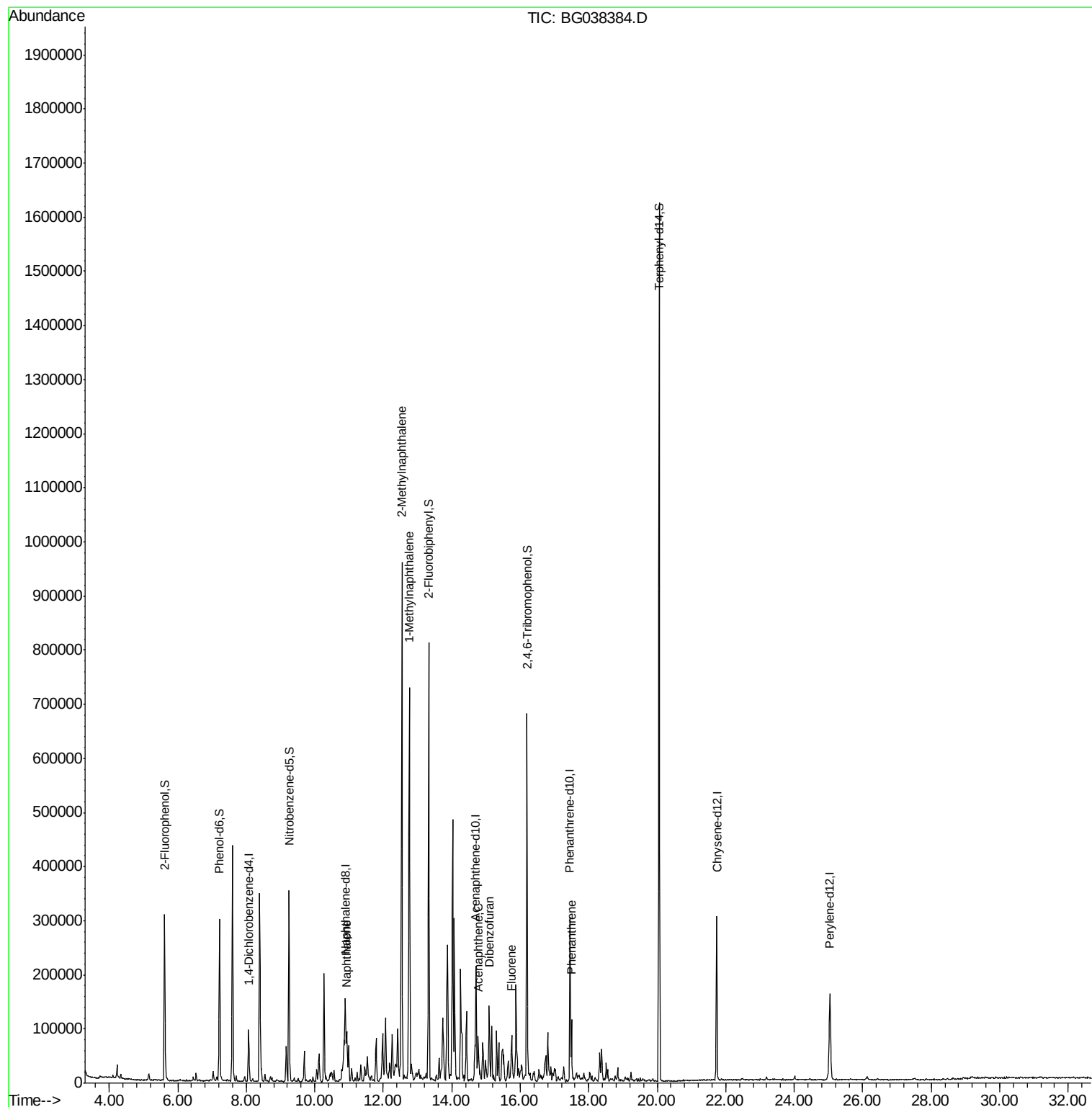
| Internal Standards          | R.T.  | QIon | Response | Conc    | Units | Dev(Min)  |
|-----------------------------|-------|------|----------|---------|-------|-----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.07  | 152  | 26777    | 20.00   | ng    | 0.00      |
| 21) Naphthalene-d8          | 10.89 | 136  | 122436   | 20.00   | ng    | 0.00      |
| 39) Acenaphthene-d10        | 14.70 | 164  | 75129    | 20.00   | ng    | 0.00      |
| 64) Phenanthrene-d10        | 17.45 | 188  | 190489   | 20.00   | ng    | 0.00      |
| 76) Chrysene-d12            | 21.73 | 240  | 188031   | 20.00   | ng    | -0.01     |
| 87) Perylene-d12            | 25.04 | 264  | 192594   | 20.00   | ng    | 0.00      |
| System Monitoring Compounds |       |      |          |         |       |           |
| 5) 2-Fluorophenol           | 5.61  | 112  | 145054   | 95.86   | ng    | 0.00      |
| 7) Phenol-d6                | 7.22  | 99   | 191773   | 87.69   | ng    | 0.00      |
| 23) Nitrobenzene-d5         | 9.25  | 82   | 189641   | 76.90   | ng    | 0.00      |
| 42) 2,4,6-Tribromophenol    | 16.20 | 330  | 123539   | 133.95  | ng    | 0.00      |
| 45) 2-Fluorobiphenyl        | 13.33 | 172  | 431674   | 81.87   | ng    | 0.00      |
| 79) Terphenyl-d14           | 20.06 | 244  | 782606   | 89.16   | ng    | 0.00      |
| Target Compounds            |       |      |          |         |       |           |
| 31) Naphthalene             | 10.94 | 128  | 59330    | 10.145  | ng    | Qvalue 97 |
| 37) 2-Methylnaphthalene     | 12.54 | 142  | 436834   | 104.882 | ng    | 99        |
| 38) 1-Methylnaphthalene     | 12.76 | 142  | 338850   | 84.944  | ng    | 98        |
| 52) Acenaphthene            | 14.77 | 154  | 18979    | 4.314   | ng    | 97        |
| 55) Dibenzofuran            | 15.10 | 168  | 29677    | 4.080   | ng    | # 90      |
| 58) Fluorene                | 15.75 | 166  | 37361    | 6.972   | ng    | 96        |
| 71) Phenanthrene            | 17.49 | 178  | 70919    | 7.434   | ng    | 99        |

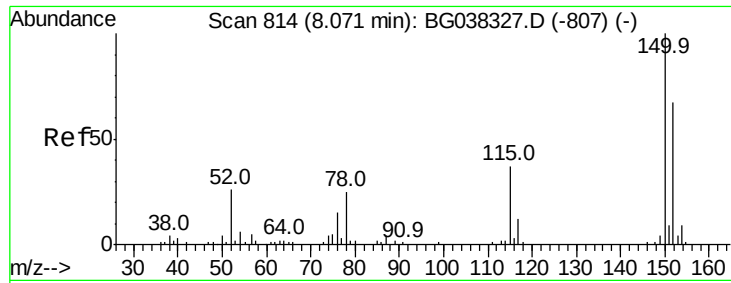
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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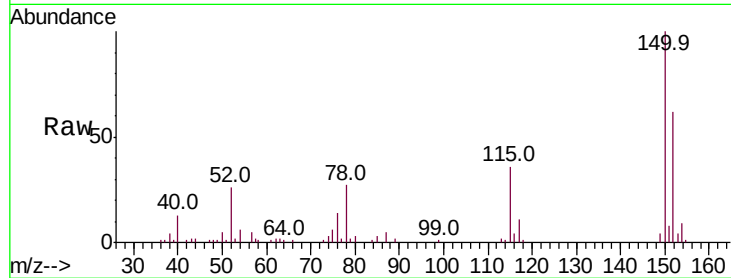


#1

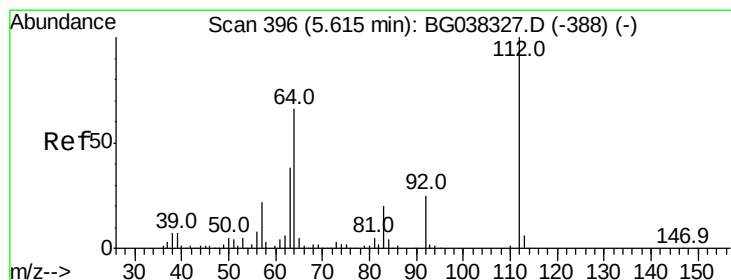
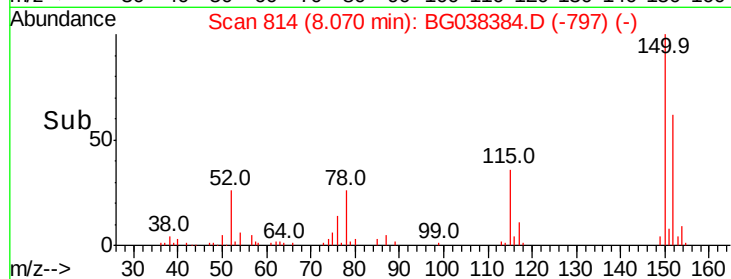
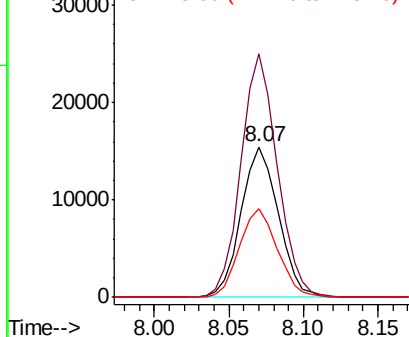
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.07 min Scan# 814  
Delta R.T. -0.00 min  
Lab File: BG038384.D  
Acq: 6 Dec 2018 14:49

Instrument :  
BNA\_G  
ClientSampleId :  
NON-UST-03R-C

Tot Ion:152 Resp: 26777  
Ion Ratio Lower Upper  
152 100  
150 161.5 126.0 189.0  
115 58.5 45.5 68.3



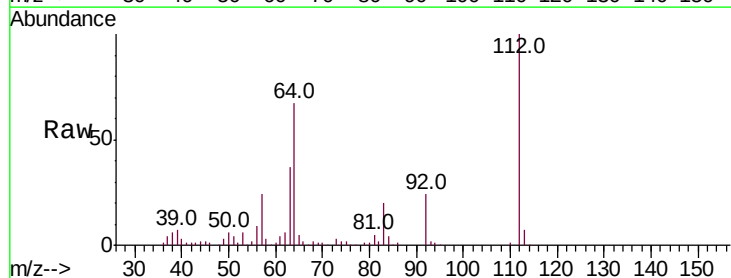
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



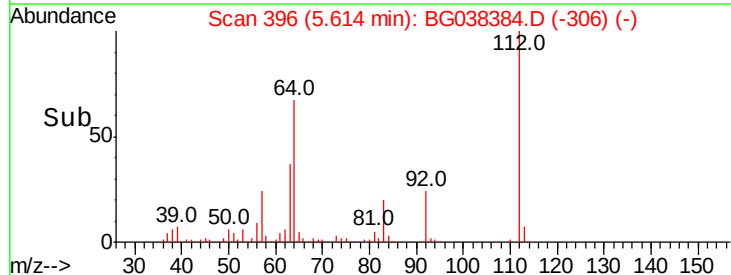
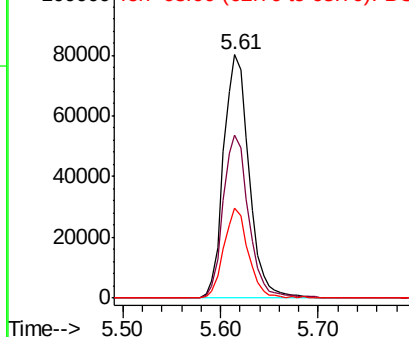
#5

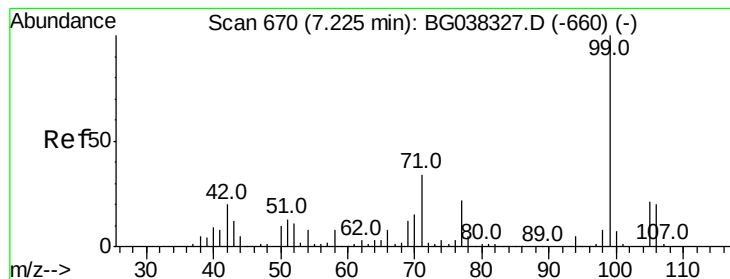
2-Fluorophenol  
Concen: 95.864 ng  
RT: 5.61 min Scan# 396  
Delta R.T. -0.00 min  
Lab File: BG038384.D  
Acq: 6 Dec 2018 14:49

Tgt Ion:112 Resp: 145054  
Ion Ratio Lower Upper  
112 100  
64 67.1 53.1 79.7  
63 36.8 27.3 40.9



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





#7

Phenol-d6

Concen: 87.689 ng

RT: 7.22 min Scan# 669

Delta R.T. -0.01 min

Lab File: BG038384.D

Acq: 6 Dec 2018 14:49

Instrument :

BNA\_G

ClientSampleId :

NON-UST-03R-C

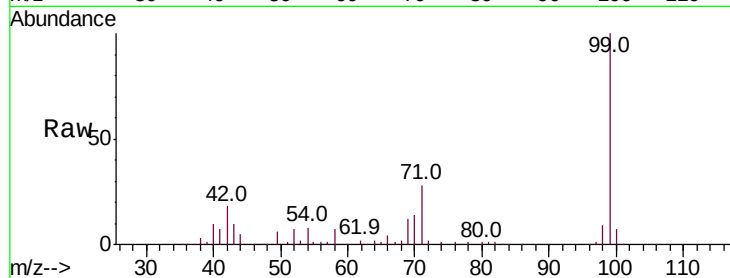
Tot Ion: 99 Resp: 191773

Ion Ratio Lower Upper

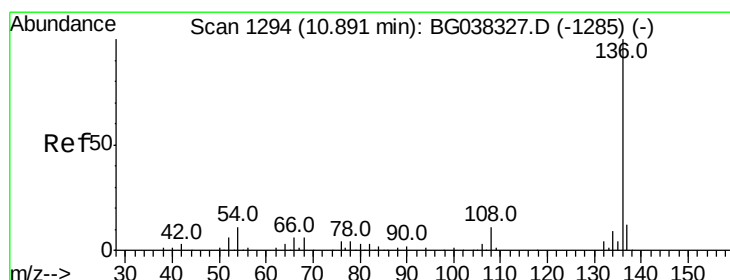
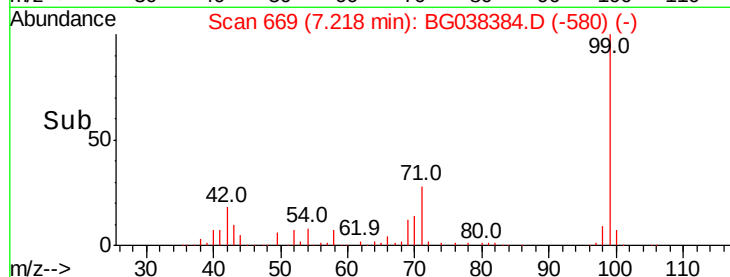
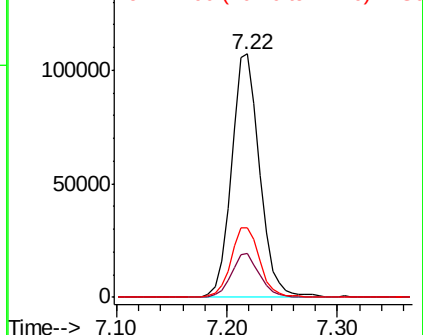
99 100

42 18.3 15.0 22.4

71 28.4 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



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.89 min Scan# 1294

Delta R.T. -0.00 min

Lab File: BG038384.D

Acq: 6 Dec 2018 14:49

Tgt Ion: 136 Resp: 122436

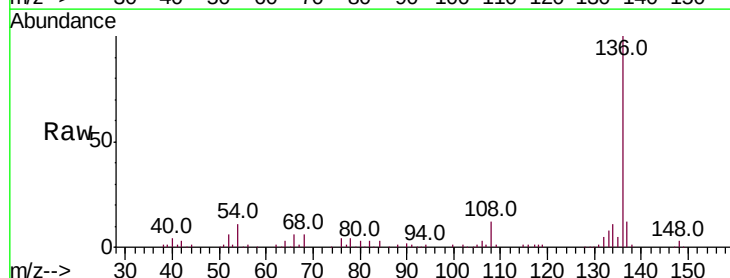
Ion Ratio Lower Upper

136 100

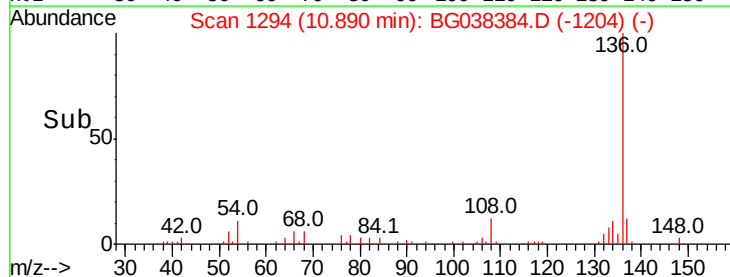
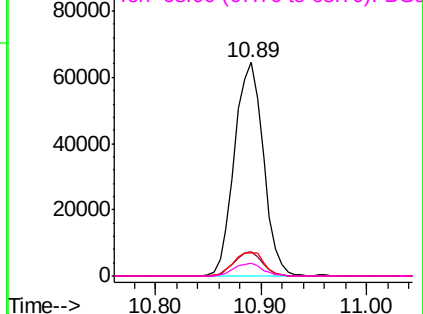
137 11.7 9.6 14.4

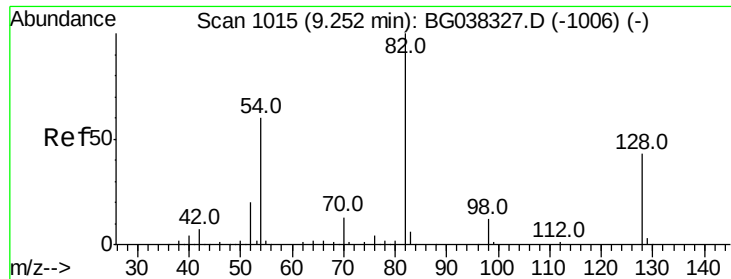
54 10.8 7.9 11.9

68 5.8 4.8 7.2



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

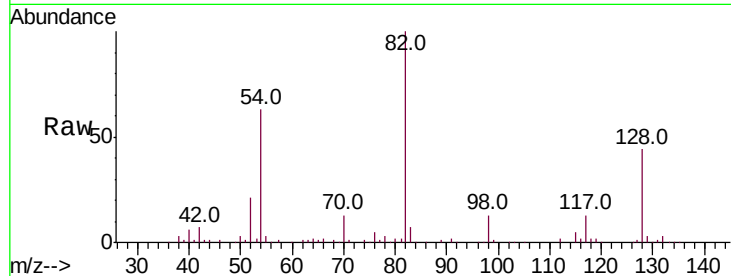




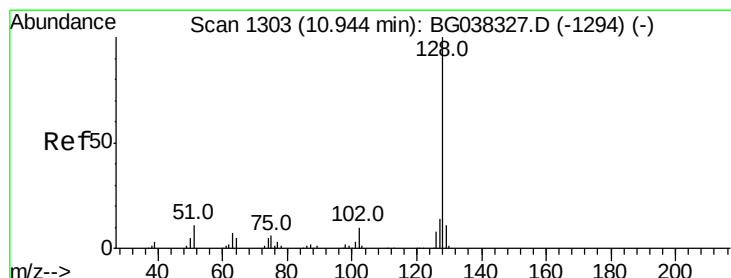
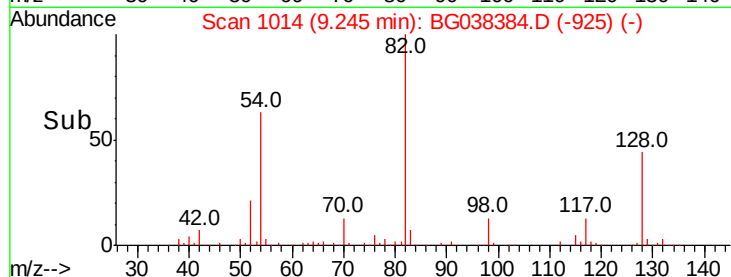
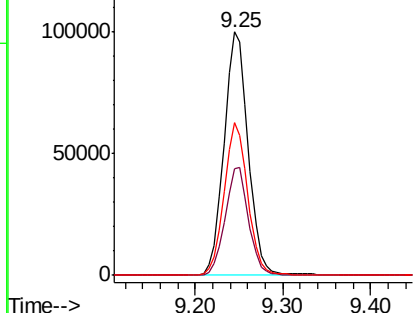
#23  
Nitrobenzene-d5  
Concen: 76.900 ng  
RT: 9.25 min Scan# 1014  
Delta R.T. -0.01 min  
Lab File: BG038384.D  
Acq: 6 Dec 2018 14:49

Instrument :  
BNA\_G  
ClientSampleId :  
NON-UST-03R-C

Tot Ion: 82 Resp: 189641  
Ion Ratio Lower Upper  
82 100  
128 43.8 34.6 51.8  
54 62.7 45.3 67.9

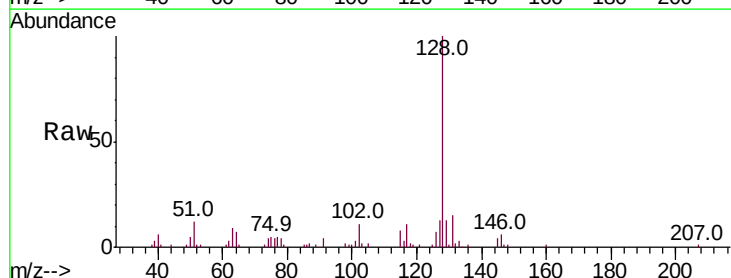


Abundance Ion 82.00 (81.70 to 82.70): BGC  
Ion 128.00 (127.70 to 128.70): BGC  
Ion 54.00 (53.70 to 54.70): BGC

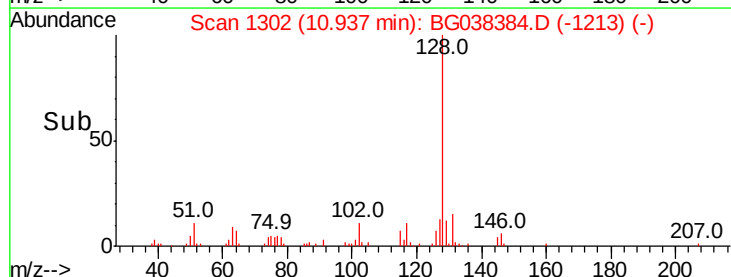
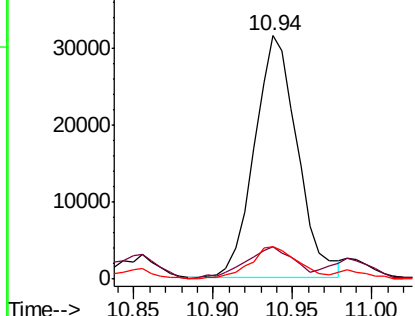


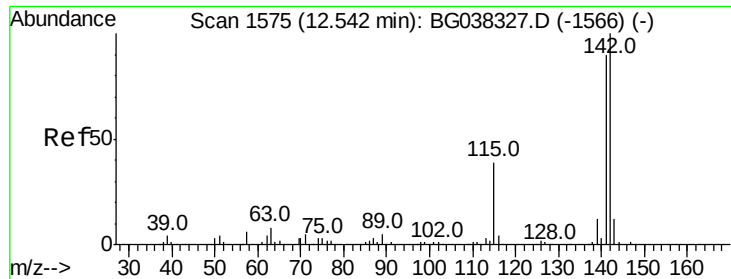
#31  
Naphthalene  
Concen: 10.145 ng  
RT: 10.94 min Scan# 1302  
Delta R.T. -0.01 min  
Lab File: BG038384.D  
Acq: 6 Dec 2018 14:49

Tgt Ion:128 Resp: 59330  
Ion Ratio Lower Upper  
128 100  
129 13.1 9.0 13.6  
127 13.4 11.1 16.7



Abundance Ion 128.00 (127.70 to 128.70): BGC  
Ion 129.00 (128.70 to 129.70): BGC  
Ion 127.00 (126.70 to 127.70): BGC

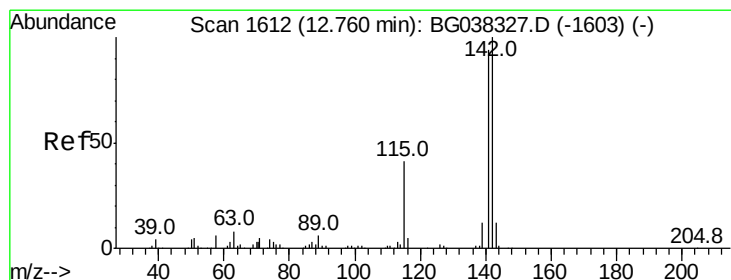
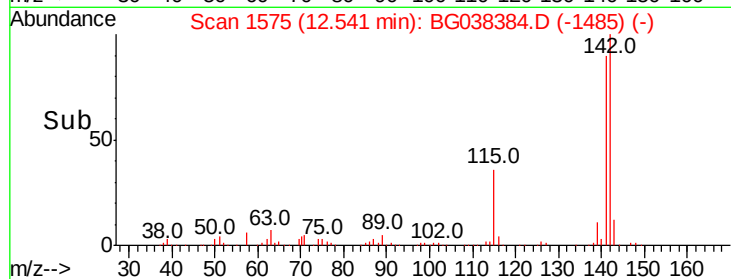
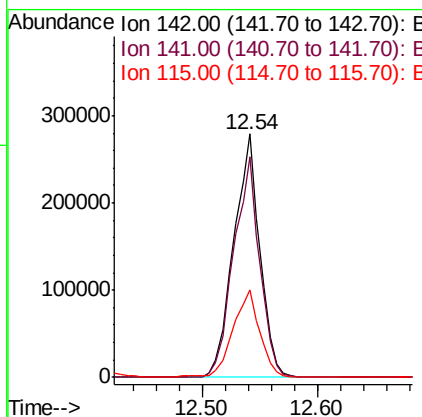
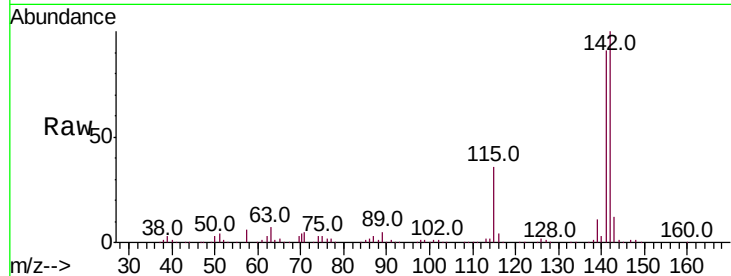




#37  
2-Methylnaphthalene  
Concen: 104.882 ng  
RT: 12.54 min Scan# 1575  
Delta R.T. -0.00 min  
Lab File: BG038384.D  
Acq: 6 Dec 2018 14:49

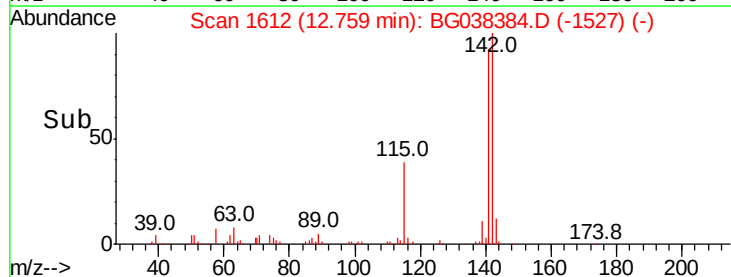
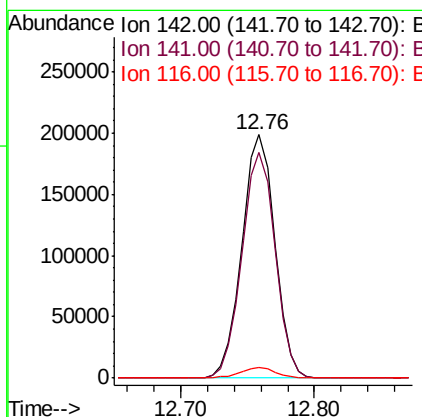
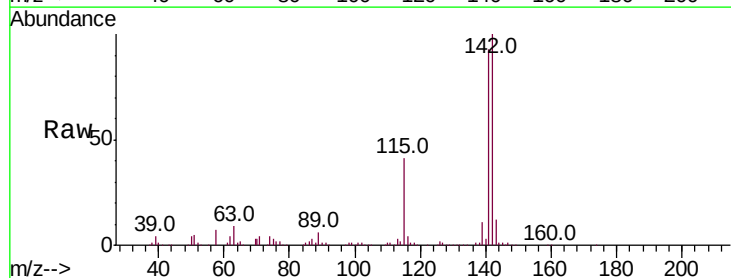
Instrument :  
BNA\_G  
ClientSampleId :  
NON-UST-03R-C

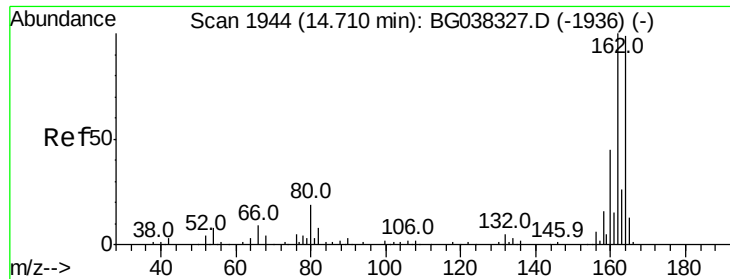
Tot Ion:142 Resp: 436834  
Ion Ratio Lower Upper  
142 100  
141 90.5 71.9 107.9  
115 36.0 27.8 41.8



#38  
1-Methylnaphthalene  
Concen: 84.944 ng  
RT: 12.76 min Scan# 1612  
Delta R.T. -0.00 min  
Lab File: BG038384.D  
Acq: 6 Dec 2018 14:49

Tgt Ion:142 Resp: 338850  
Ion Ratio Lower Upper  
142 100  
141 92.5 75.2 112.8  
116 4.5 3.3 4.9





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.70 min Scan# 1943

Delta R.T. -0.01 min

Lab File: BG038384.D

Acq: 6 Dec 2018 14:49

Instrument :

BNA\_G

ClientSampleId :

NON-UST-03R-C

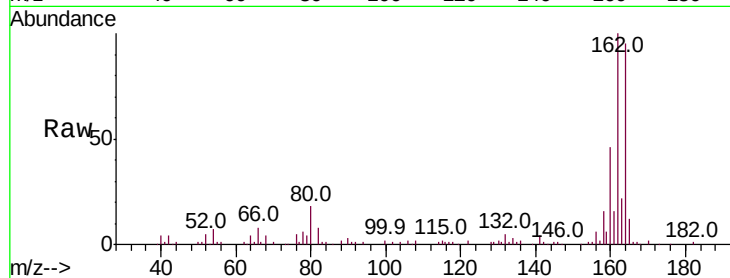
Tot Ion:164 Resp: 75129

Ion Ratio Lower Upper

164 100

162 105.3 81.3 121.9

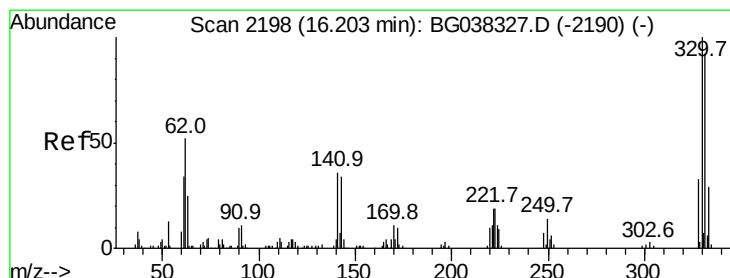
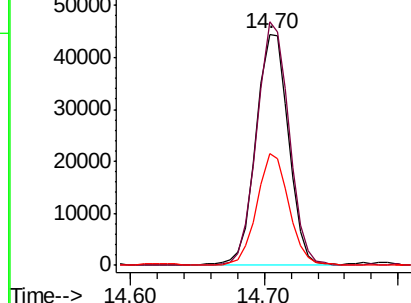
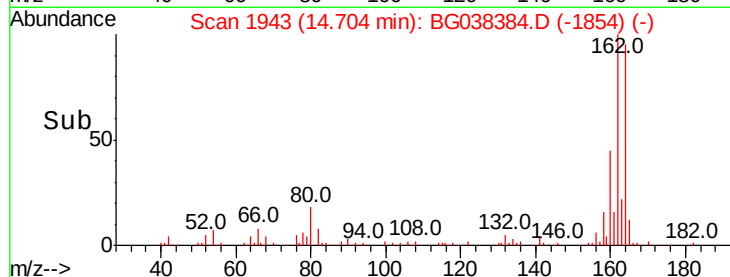
160 48.4 36.3 54.5



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#42

2,4,6-Tribromophenol

Concen: 133.947 ng

RT: 16.20 min Scan# 2197

Delta R.T. -0.01 min

Lab File: BG038384.D

Acq: 6 Dec 2018 14:49

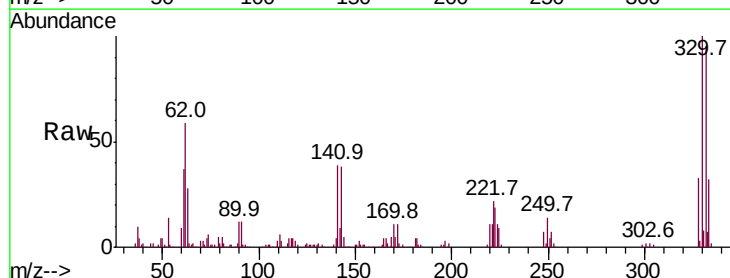
Tgt Ion:330 Resp: 123539

Ion Ratio Lower Upper

330 100

332 96.4 78.4 117.6

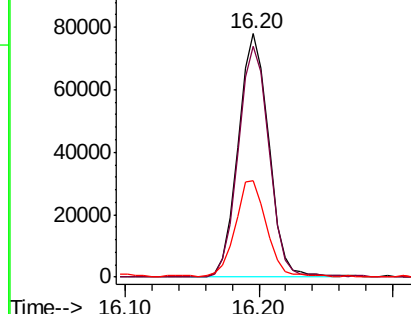
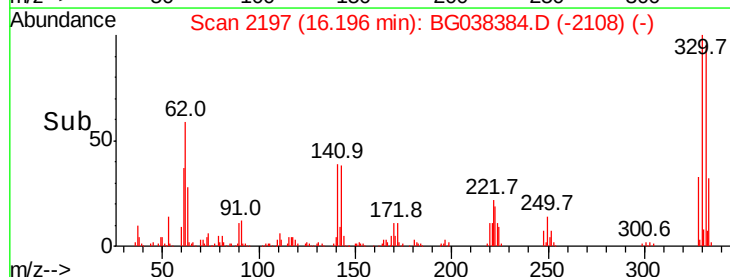
141 39.9 32.2 48.2

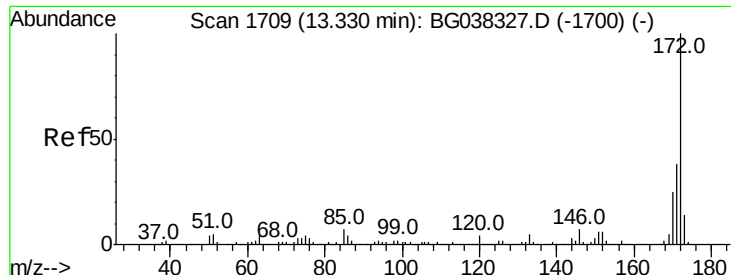


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

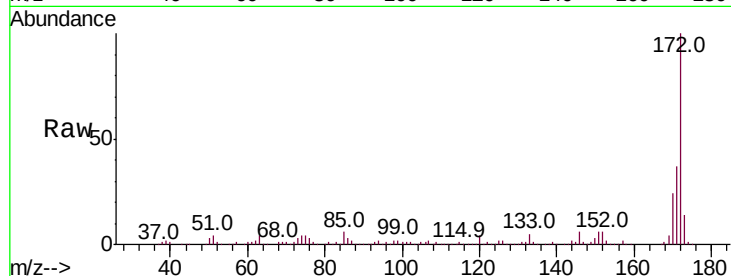




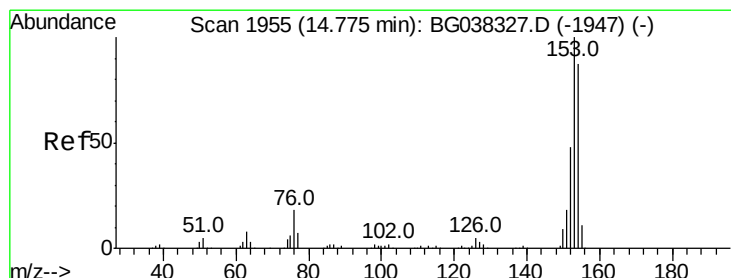
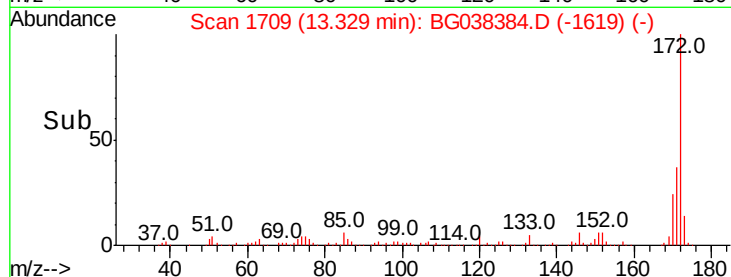
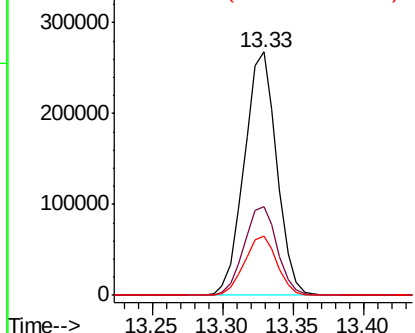
#45  
 2-Fluorobiphenyl  
 Concen: 81.872 ng  
 RT: 13.33 min Scan# 1709  
 Delta R.T. -0.00 min  
 Lab File: BG038384.D  
 Acq: 6 Dec 2018 14:49

Instrument :  
 BNA\_G  
 ClientSampleId :  
 NON-UST-03R-C

Tot Ion:172 Resp: 431674  
 Ion Ratio Lower Upper  
 172 100  
 171 36.6 31.0 46.4  
 170 24.4 20.2 30.2

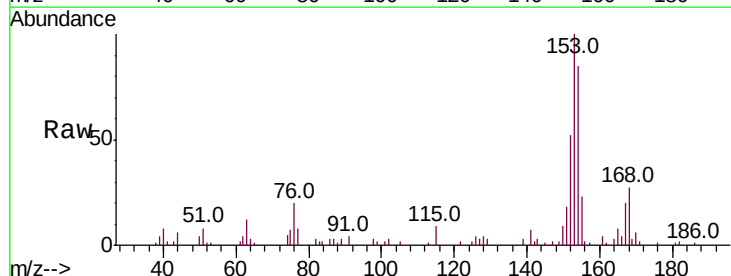


Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

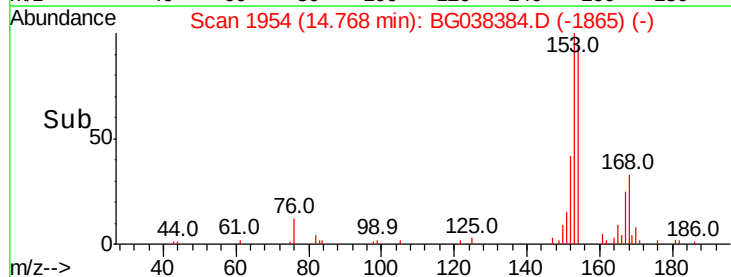
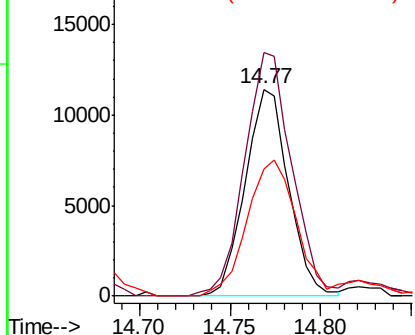


#52  
 Acenaphthene  
 Concen: 4.314 ng  
 RT: 14.77 min Scan# 1954  
 Delta R.T. -0.01 min  
 Lab File: BG038384.D  
 Acq: 6 Dec 2018 14:49

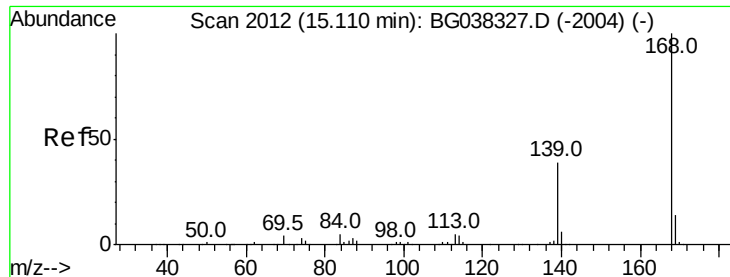
Tgt Ion:154 Resp: 18979  
 Ion Ratio Lower Upper  
 154 100  
 153 117.8 93.4 140.0  
 152 61.3 44.7 67.1



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



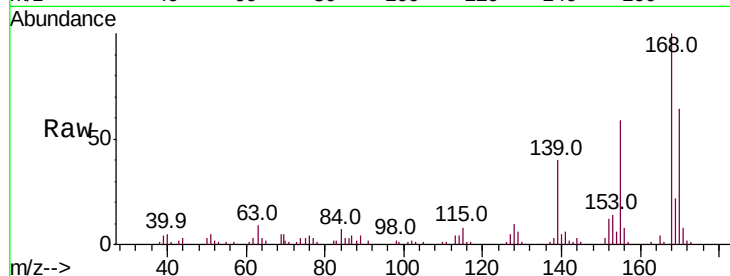




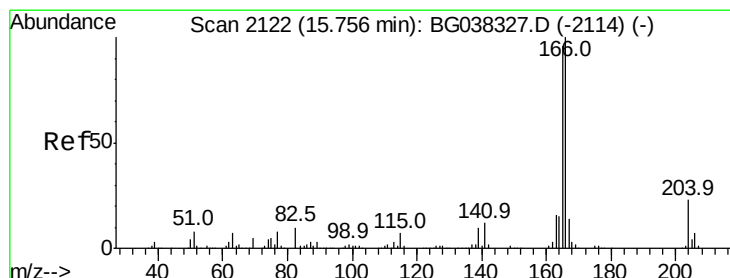
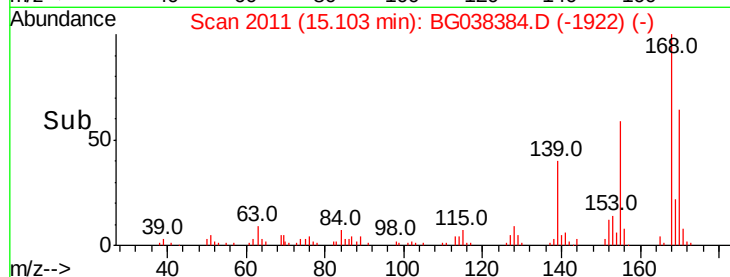
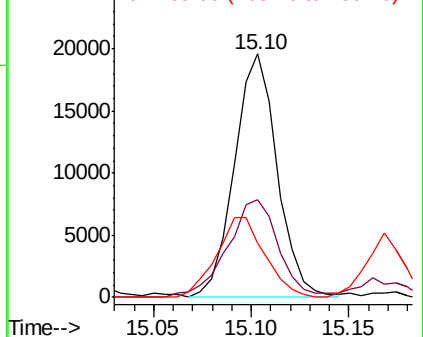
#55  
Dibenzenofuran  
Concen: 4.080 ng  
RT: 15.10 min Scan# 2011  
Delta R.T. -0.01 min  
Lab File: BG038384.D  
Acq: 6 Dec 2018 14:49

Instrument :  
BNA\_G  
ClientSampleId :  
NON-UST-03R-C

Tot Ion:168 Resp: 29677  
Ion Ratio Lower Upper  
168 100  
139 39.9 29.4 44.0  
169 22.2 11.0 16.6#

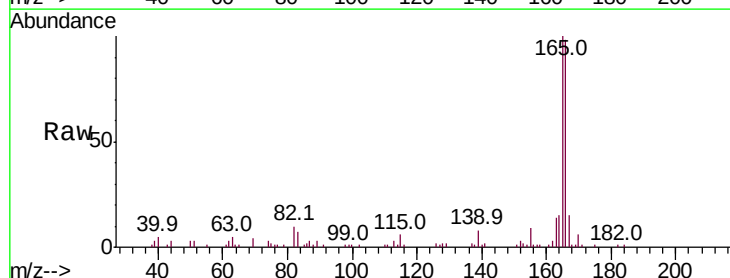


Abundance Ion 168.00 (167.70 to 168.70): E  
Ion 139.00 (138.70 to 139.70): E  
Ion 169.00 (168.70 to 169.70): E

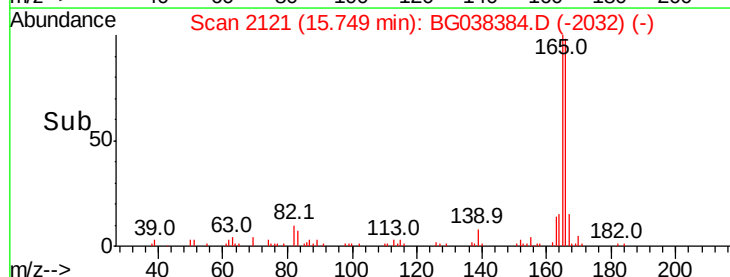
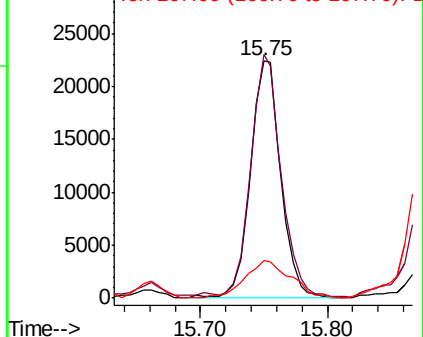


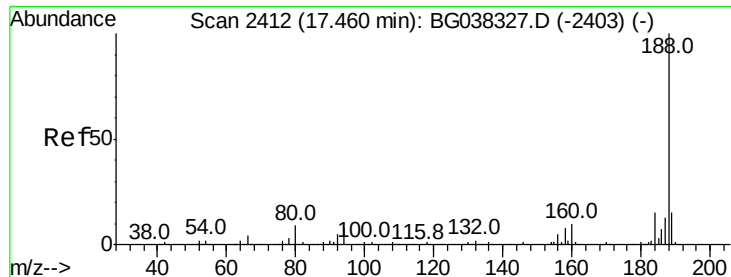
#58  
Fluorene  
Concen: 6.972 ng  
RT: 15.75 min Scan# 2121  
Delta R.T. -0.01 min  
Lab File: BG038384.D  
Acq: 6 Dec 2018 14:49

Tgt Ion:166 Resp: 37361  
Ion Ratio Lower Upper  
166 100  
165 102.5 79.0 118.6  
167 15.7 11.3 16.9



Abundance Ion 166.00 (165.70 to 166.70): E  
Ion 165.00 (164.70 to 165.70): E  
Ion 167.00 (166.70 to 167.70): E

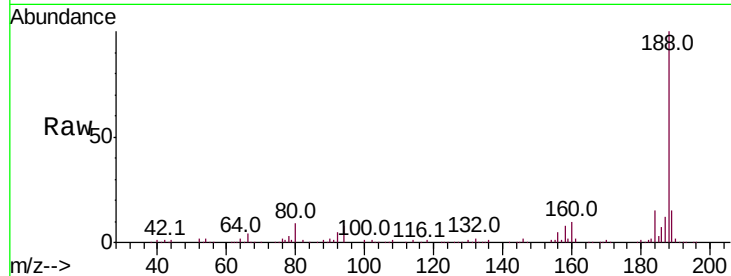




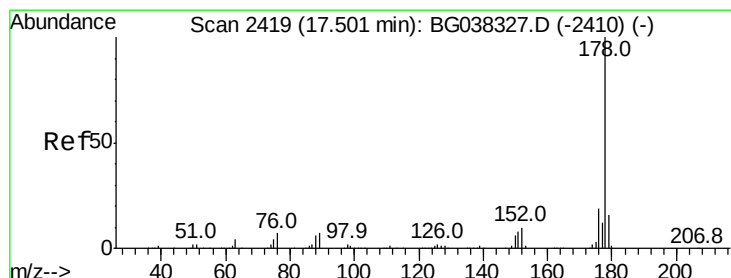
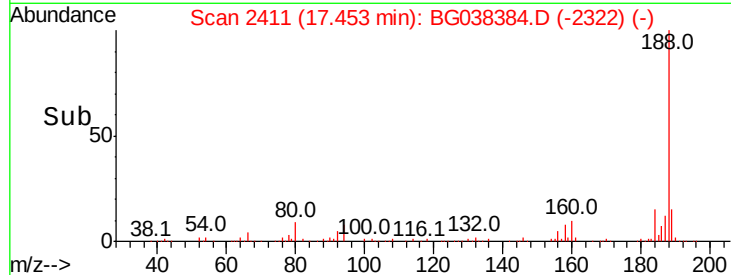
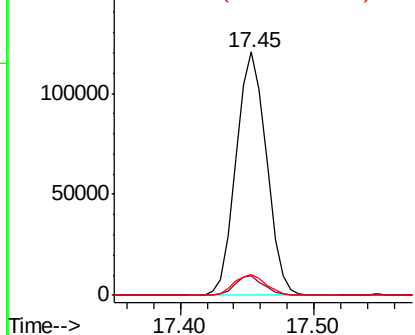
#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.45 min Scan# 2411  
 Delta R.T. -0.01 min  
 Lab File: BG038384.D  
 Acq: 6 Dec 2018 14:49

Instrument :  
 BNA\_G  
 ClientSampleId :  
 NON-UST-03R-C

Tot Ion:188 Resp: 190489  
 Ion Ratio Lower Upper  
 188 100  
 94 7.8 7.2 10.8  
 80 8.7 7.7 11.5

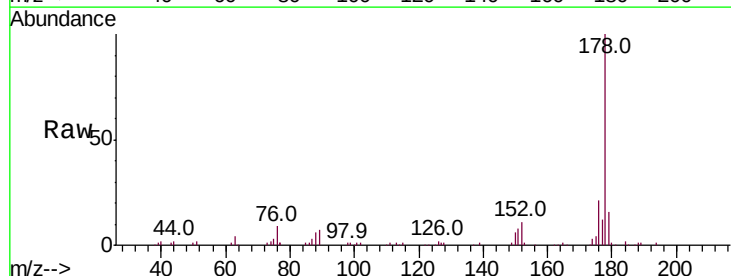


Abundance Ion 188.00 (187.70 to 188.70): E  
 Ion 94.00 (93.70 to 94.70): BGC  
 Ion 80.00 (79.70 to 80.70): BGC

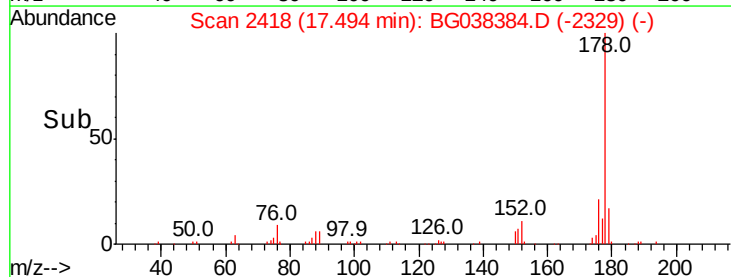
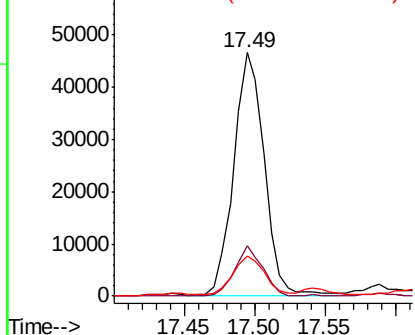


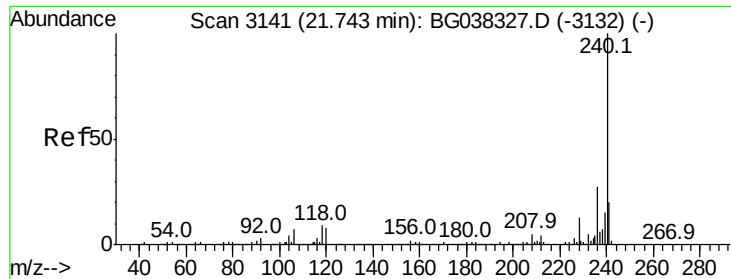
#71  
 Phenanthrene  
 Concen: 7.434 ng  
 RT: 17.49 min Scan# 2418  
 Delta R.T. -0.01 min  
 Lab File: BG038384.D  
 Acq: 6 Dec 2018 14:49

Tgt Ion:178 Resp: 70919  
 Ion Ratio Lower Upper  
 178 100  
 176 20.8 16.1 24.1  
 179 16.5 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

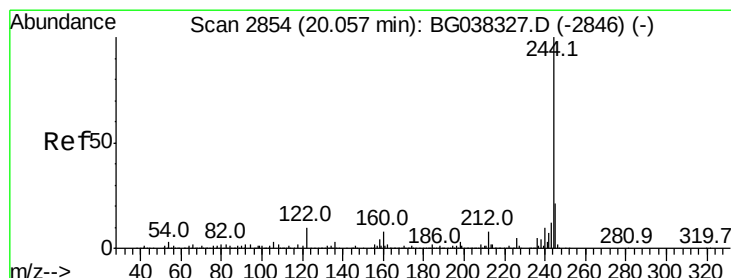
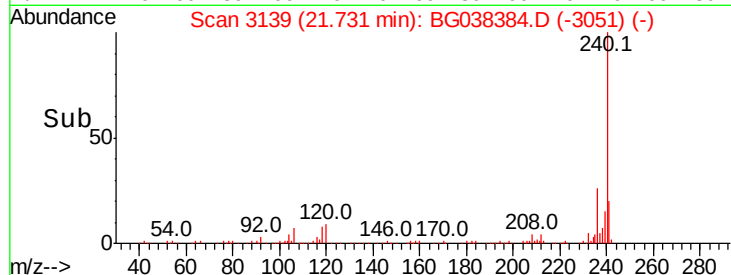
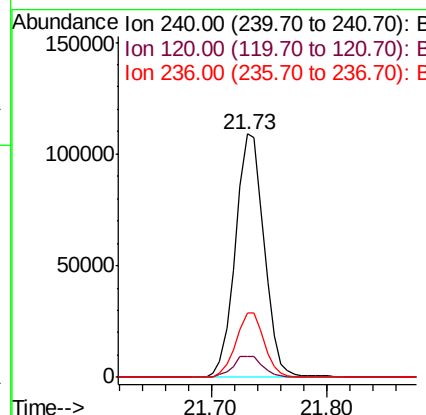
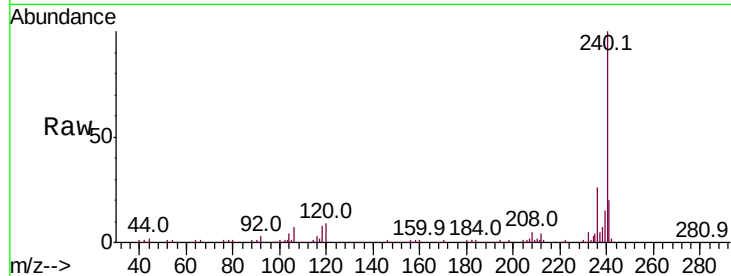




#76  
 Chrvsene-d12  
 Concen: 20.000 ng  
 RT: 21.73 min Scan# 3139  
 Delta R.T. -0.01 min  
 Lab File: BG038384.D  
 Acq: 6 Dec 2018 14:49

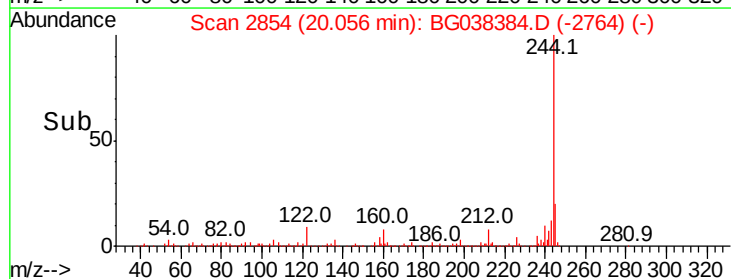
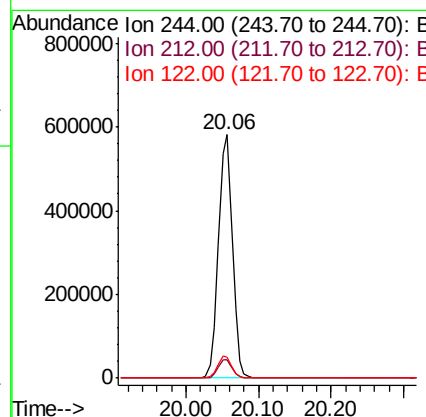
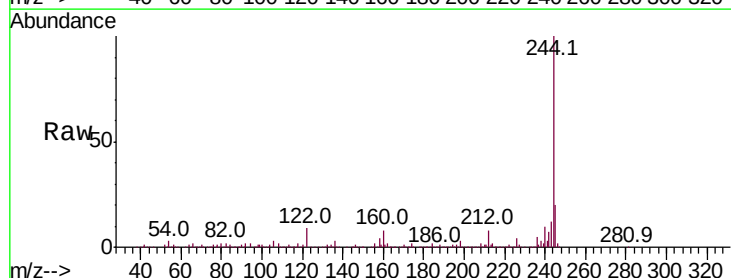
Instrument :  
 BNA\_G  
 ClientSampleId :  
 NON-UST-03R-C

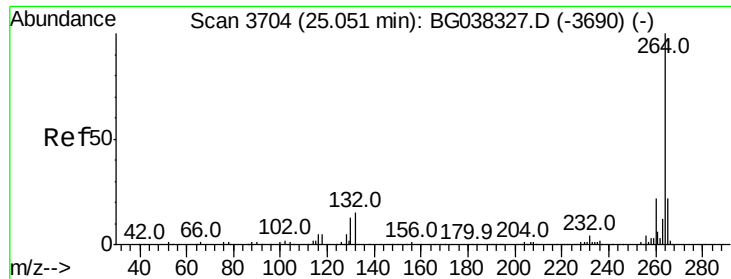
Tot Ion:240 Resp: 188031  
 Ion Ratio Lower Upper  
 240 100  
 120 8.5 8.1 12.1  
 236 26.3 21.4 32.0



#79  
 Terphenyl-d14  
 Concen: 89.163 ng  
 RT: 20.06 min Scan# 2854  
 Delta R.T. -0.00 min  
 Lab File: BG038384.D  
 Acq: 6 Dec 2018 14:49

Tgt Ion:244 Resp: 782606  
 Ion Ratio Lower Upper  
 244 100  
 212 7.7 6.5 9.7  
 122 8.8 9.0 13.4#

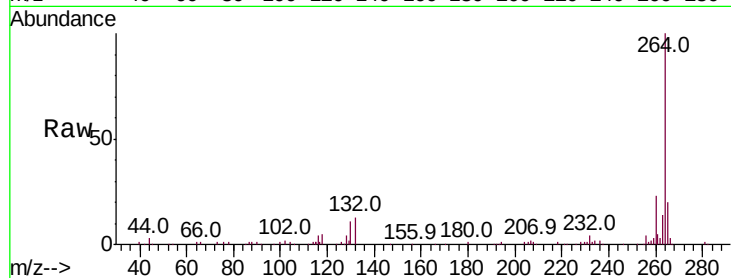




#87  
 Pervlene-d12  
 Concen: 20.000 ng  
 RT: 25.04 min Scan# 3703  
 Delta R.T. -0.01 min  
 Lab File: BG038384.D  
 Acq: 6 Dec 2018 14:49

Instrument :  
 BNA\_G  
 ClientSampleId :  
 NON-UST-03R-C

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 264   | Resp: | 192594 |
| Ion      | Ratio | Lower | Upper  |
| 264      | 100   |       |        |
| 260      | 22.6  | 18.2  | 27.4   |
| 265      | 19.9  | 17.9  | 26.9   |



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

