

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG121318\  
 Data File : BG038558.D  
 Acq On : 14 Dec 2018 7:49  
 Operator : JU/SJ  
 Sample : J6189-06  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Dec 14 10:25:56 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG121218.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Dec 12 15:26:27 2018  
 Response via : Initial Calibration

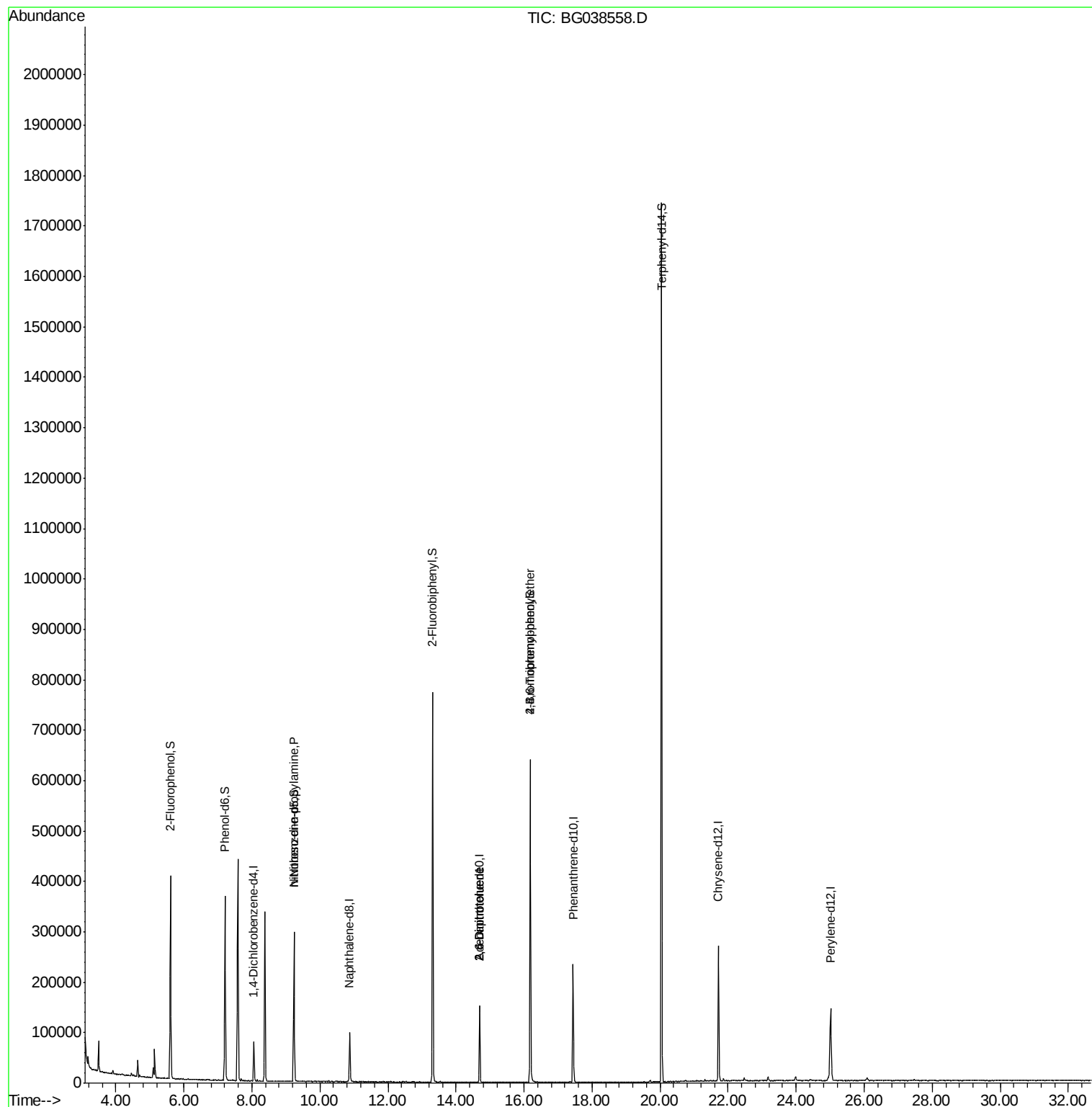
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.06  | 152  | 22030    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 10.88 | 136  | 87543    | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10           | 14.69 | 164  | 57033    | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10           | 17.44 | 188  | 153694   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12               | 21.72 | 240  | 165348   | 20.00  | ng    | -0.01    |
| 87) Perylene-d12               | 25.01 | 264  | 173458   | 20.00  | ng    | -0.01    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.61  | 112  | 169327   | 136.33 | ng    | 0.00     |
| 7) Phenol-d6                   | 7.21  | 99   | 198071   | 116.16 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 9.24  | 82   | 174320   | 101.73 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol       | 16.19 | 330  | 131711   | 167.57 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl           | 13.31 | 172  | 411037   | 98.87  | ng    | 0.00     |
| 79) Terphenyl-d14              | 20.04 | 244  | 852370   | 112.19 | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 9.23  | 70   | 23564    | 19.676 | ng    | # 72     |
| 51) 2,6-Dinitrotoluene         | 14.69 | 165  | 7356     | 6.969  | ng    | # 19     |
| 57) 2,4-Dinitrotoluene         | 14.69 | 165  | 7356     | 4.948  | ng    | # 21     |
| 67) 4-Bromophenyl-phenylether  | 16.19 | 248  | 8502     | 4.529  | ng    | # 1      |

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

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Sample : J6189-06  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :

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Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG121218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Dec 12 15:26:27 2018  
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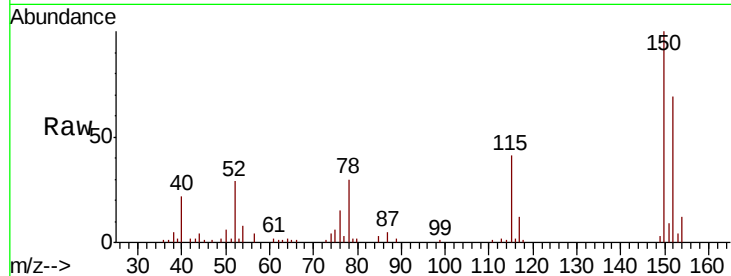


#1

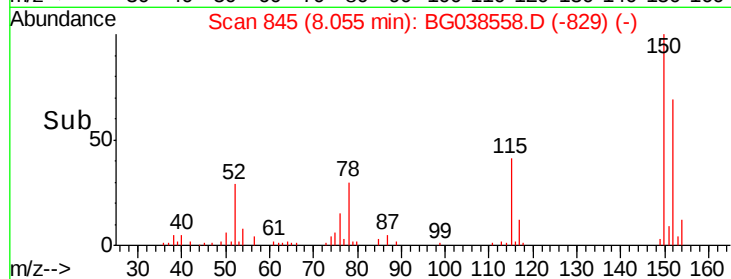
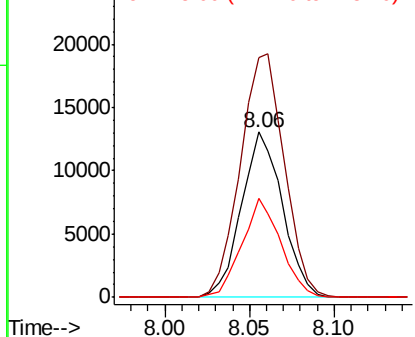
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.06 min Scan# 845  
Delta R.T. -0.00 min  
Lab File: BG038558.D  
Acq: 14 Dec 2018 7:49

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 22030  
Ion Ratio Lower Upper  
152 100  
150 145.7 119.5 179.3  
115 59.7 49.6 74.4



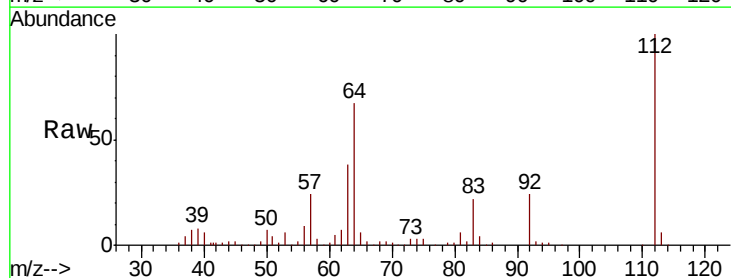
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



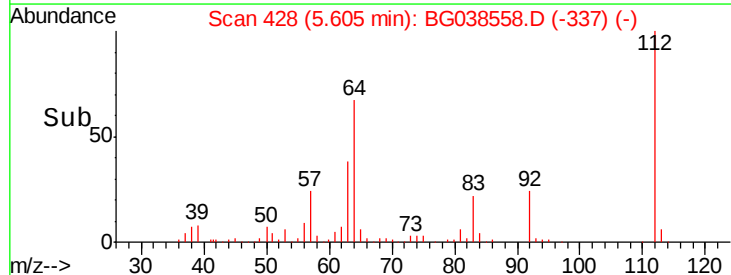
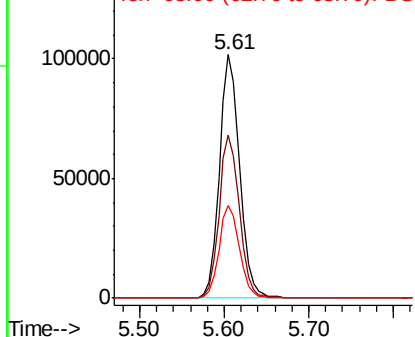
#5

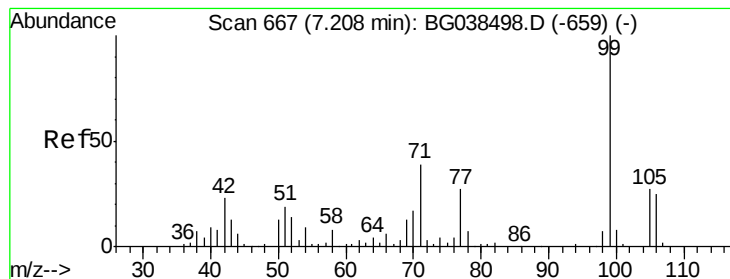
2-Fluorophenol  
Concen: 136.326 ng  
RT: 5.61 min Scan# 428  
Delta R.T. 0.00 min  
Lab File: BG038558.D  
Acq: 14 Dec 2018 7:49

Tgt Ion:112 Resp: 169327  
Ion Ratio Lower Upper  
112 100  
64 67.0 53.4 80.2  
63 38.3 29.3 43.9



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: 116.162 ng

RT: 7.21 min Scan# 701

Delta R.T. 0.00 min

Lab File: BG038558.D

Acq: 14 Dec 2018 7:49

Instrument :

BNA\_F

ClientSampleId :

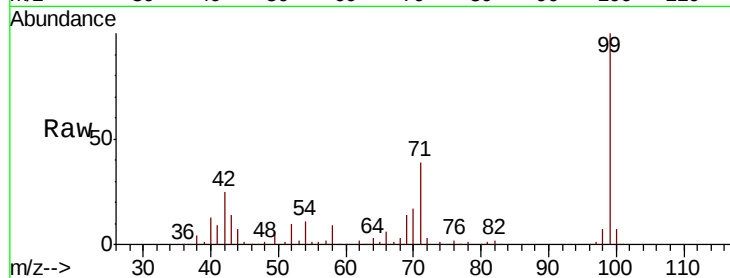
Tot Ion: 99 Resp: 198071

Ion Ratio Lower Upper

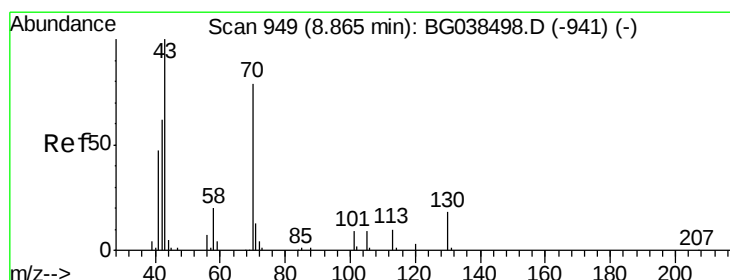
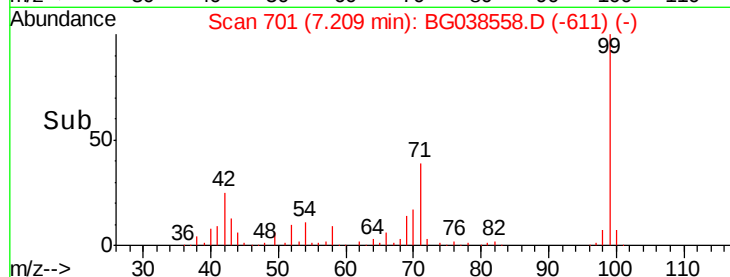
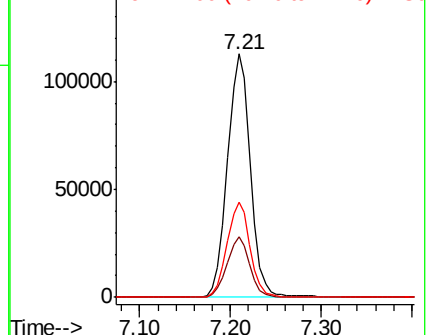
99 100

42 25.1 18.5 27.7

71 39.0 31.1 46.7



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



#19

n-Nitroso-di-n-propylamine

Concen: 19.676 ng

RT: 9.23 min Scan# 1045

Delta R.T. 0.37 min

Lab File: BG038558.D

Acq: 14 Dec 2018 7:49

Tgt Ion: 70 Resp: 23564

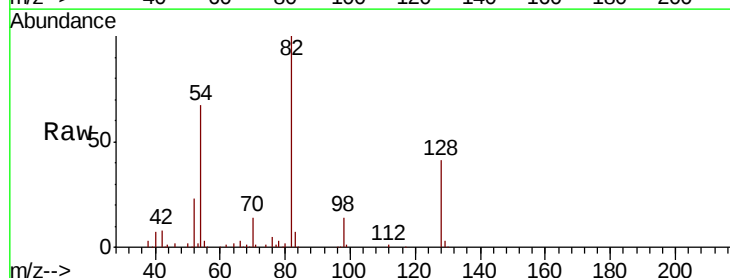
Ion Ratio Lower Upper

70 100

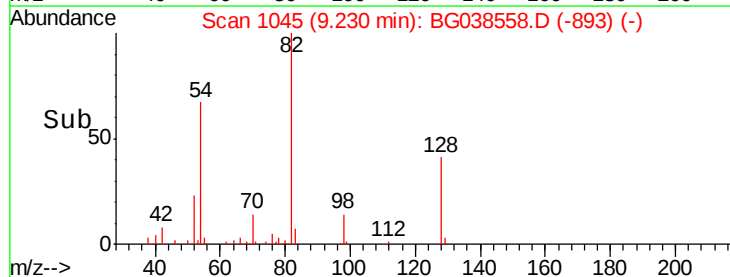
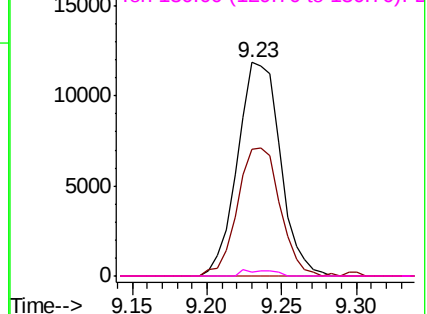
42 59.2 63.6 95.4#

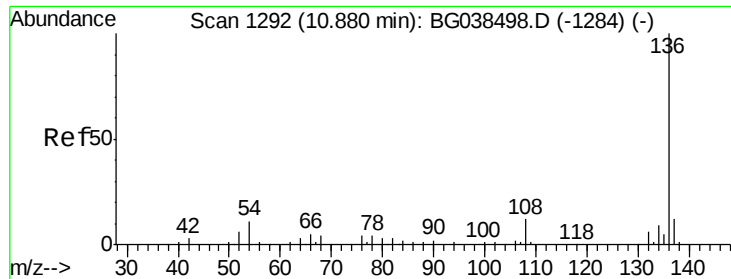
101 0.0 9.2 13.8#

130 1.8 18.5 27.7#



Abundance Ion 70.00 (69.70 to 70.70): BGC  
Ion 42.00 (41.70 to 42.70): BGC  
Ion 101.00 (100.70 to 101.70): BGC  
Ion 130.00 (129.70 to 130.70): BGC

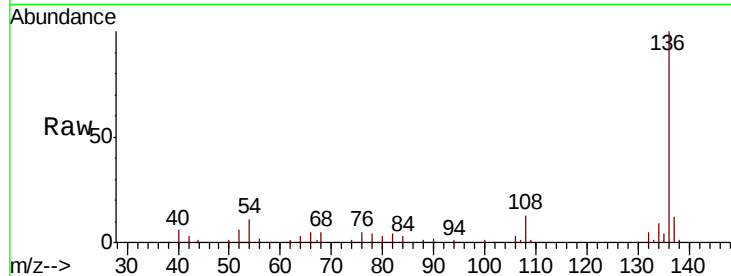




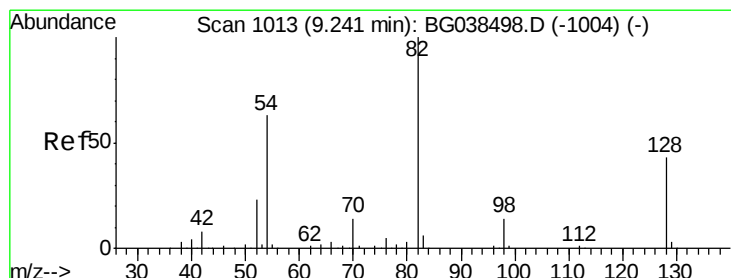
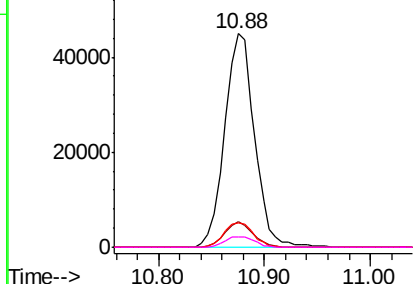
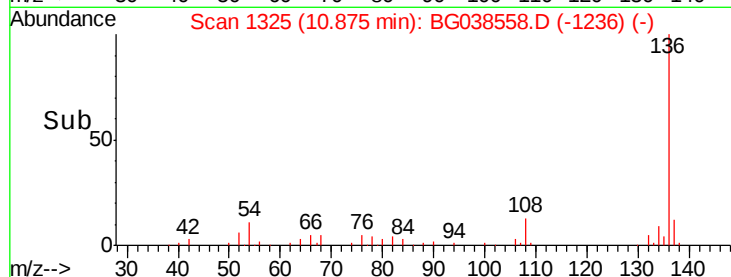
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.88 min Scan# 1325  
Delta R.T. -0.00 min  
Lab File: BG038558.D  
Acq: 14 Dec 2018 7:49

Instrument :  
BNA\_F  
ClientSampleId :

|             |       |             |
|-------------|-------|-------------|
| Tot Ion:136 | Resp: | 87543       |
| Ion         | Ratio | Lower Upper |
| 136         | 100   |             |
| 137         | 12.0  | 9.3 13.9    |
| 54          | 11.4  | 8.5 12.7    |
| 68          | 4.9   | 3.5 5.3     |

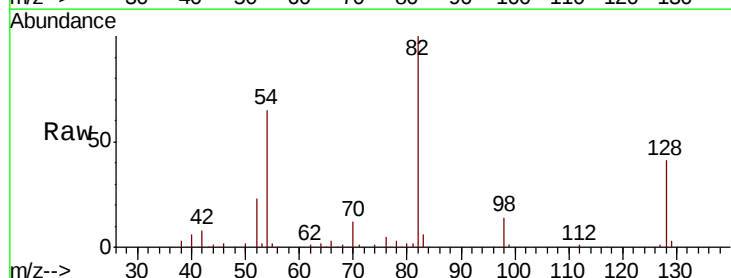


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

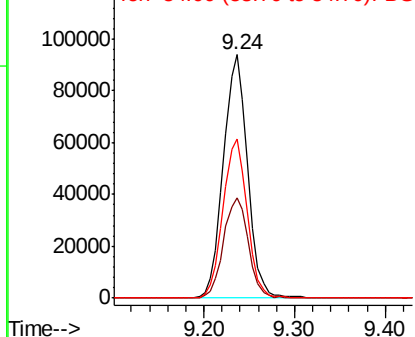
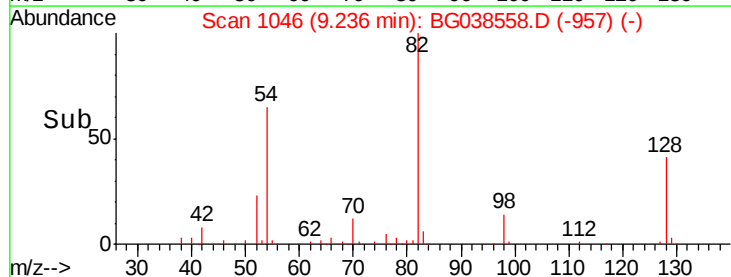


#23  
Nitrobenzene-d5  
Concen: 101.727 ng  
RT: 9.24 min Scan# 1046  
Delta R.T. -0.00 min  
Lab File: BG038558.D  
Acq: 14 Dec 2018 7:49

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 82 | Resp: | 174320      |
| Ion         | Ratio | Lower Upper |
| 82          | 100   |             |
| 128         | 41.1  | 34.6 52.0   |
| 54          | 65.5  | 50.6 76.0   |



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: 14.69 min Scan# 1975

Delta R.T. -0.00 min

Lab File: BG038558.D

Acq: 14 Dec 2018 7:49

Instrument :

BNA\_F

ClientSampleId :

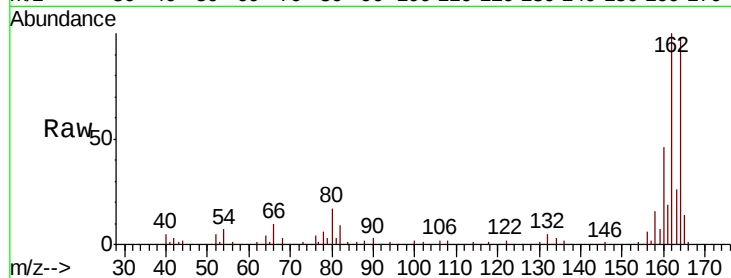
Tot Ion:164 Resp: 57033

Ion Ratio Lower Upper

164 100

162 101.9 86.6 130.0

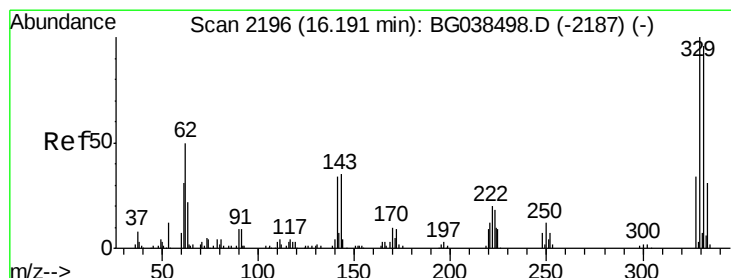
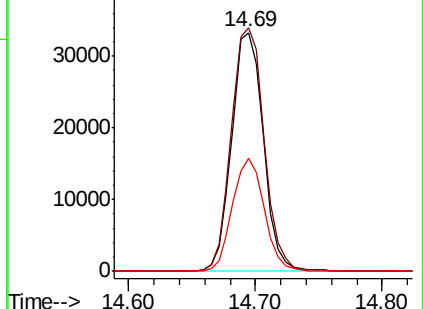
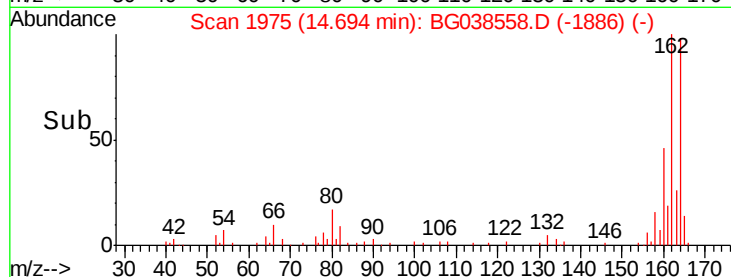
160 47.3 34.2 51.2



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: 167.568 ng

RT: 16.19 min Scan# 2229

Delta R.T. -0.00 min

Lab File: BG038558.D

Acq: 14 Dec 2018 7:49

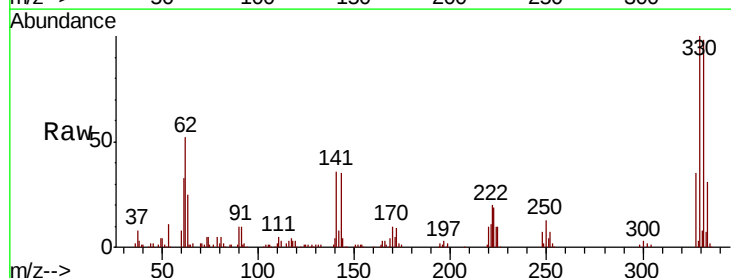
Tgt Ion:330 Resp: 131711

Ion Ratio Lower Upper

330 100

332 95.8 76.9 115.3

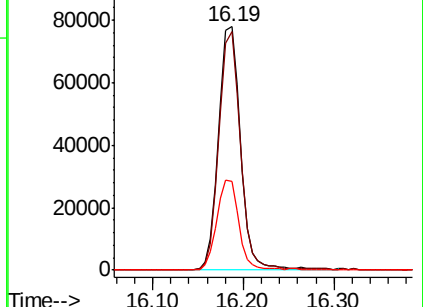
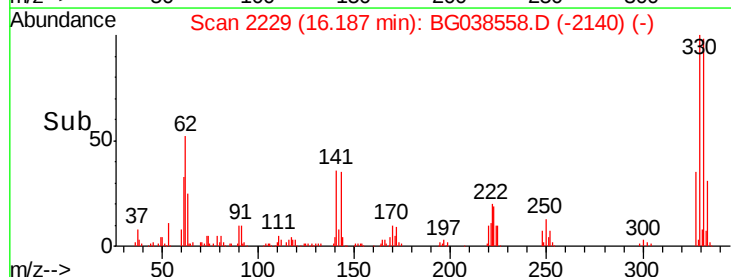
141 36.7 28.8 43.2

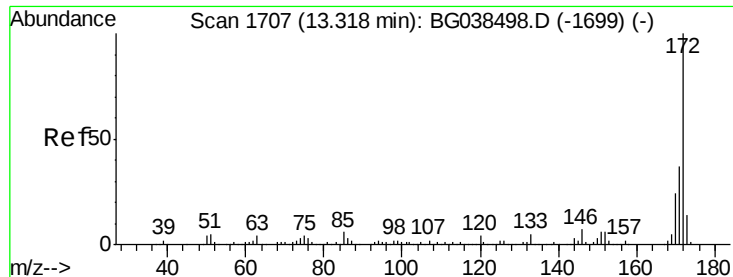


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

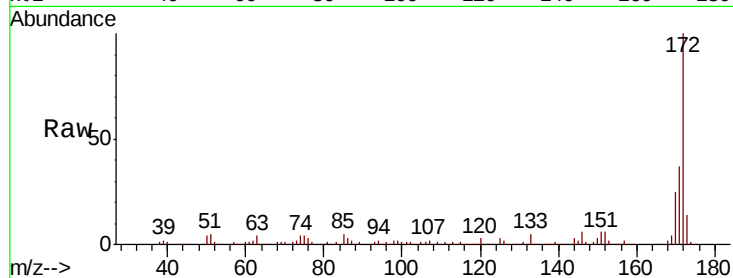




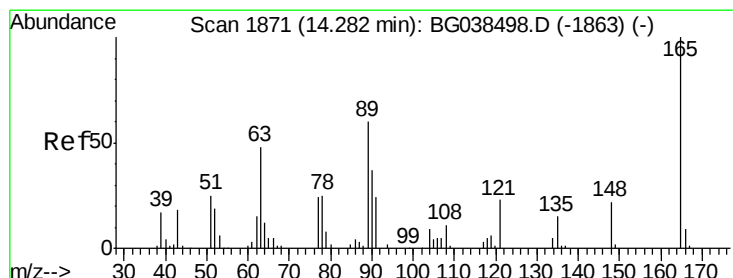
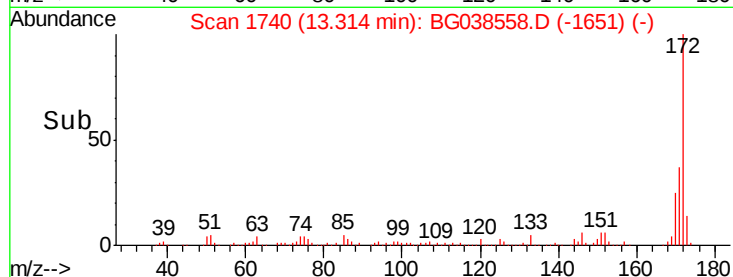
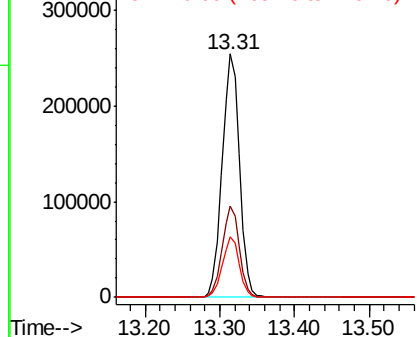
#45  
 2-Fluorobiphenyl  
 Concen: 98.869 ng  
 RT: 13.31 min Scan# 1740  
 Delta R.T. -0.00 min  
 Lab File: BG038558.D  
 Acq: 14 Dec 2018 7:49

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:172 Resp: 411037  
 Ion Ratio Lower Upper  
 172 100  
 171 37.3 29.8 44.6  
 170 25.1 19.5 29.3

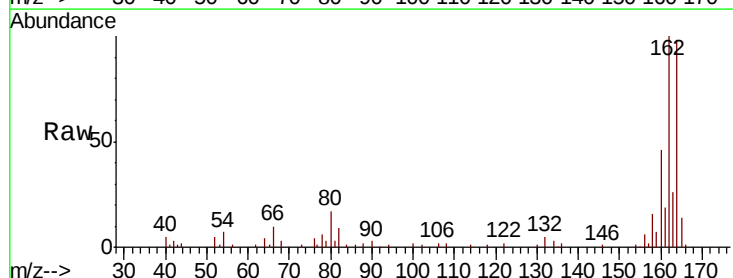


Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

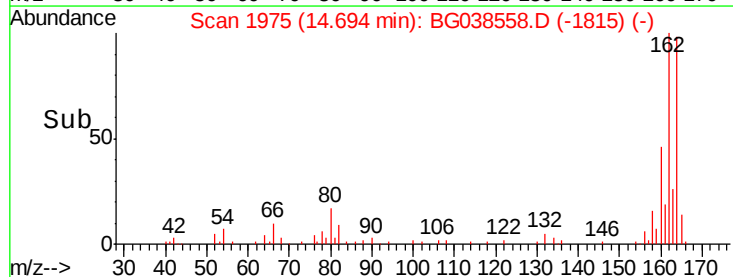
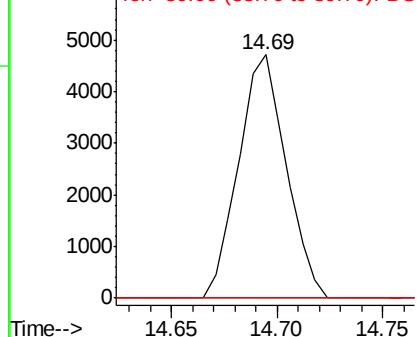


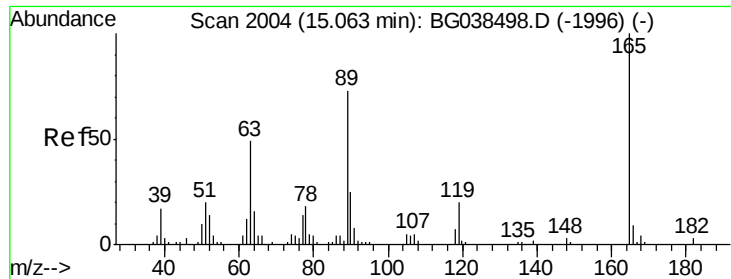
#51  
 2,6-Dinitrotoluene  
 Concen: 6.969 ng  
 RT: 14.69 min Scan# 1975  
 Delta R.T. 0.41 min  
 Lab File: BG038558.D  
 Acq: 14 Dec 2018 7:49

Tgt Ion:165 Resp: 7356  
 Ion Ratio Lower Upper  
 165 100  
 63 0.0 51.8 77.6#  
 89 0.0 47.9 71.9#



Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BG  
 Ion 89.00 (88.70 to 89.70): BG

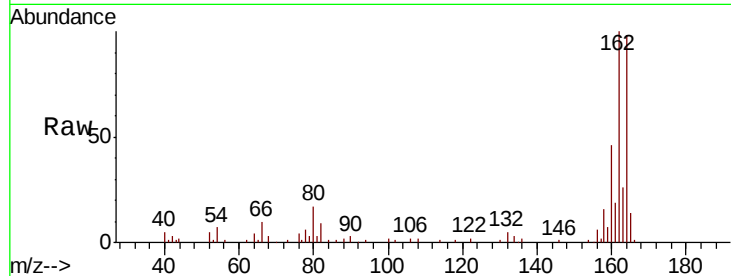




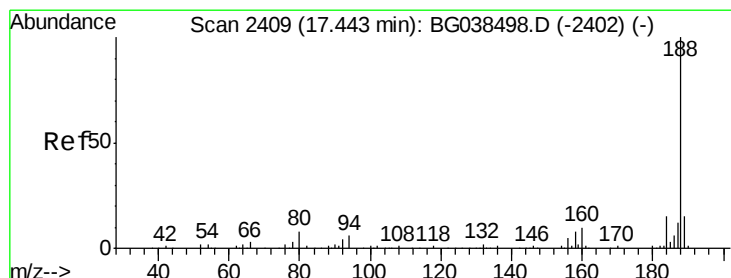
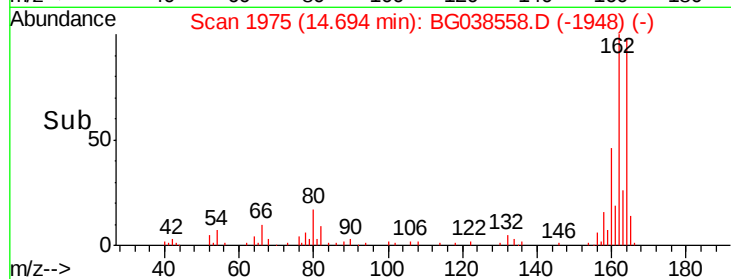
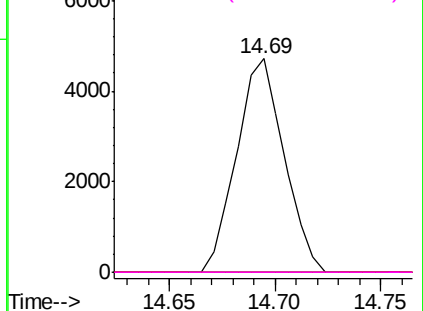
#57  
 2,4-Dinitrotoluene  
 Concen: 4.948 ng  
 RT: 14.69 min Scan# 1975  
 Delta R.T. -0.37 min  
 Lab File: BG038558.D  
 Acq: 14 Dec 2018 7:49

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 39.0  | 58.4# |
| 89      | 0.0   | 58.0  | 87.0# |
| 182     | 0.0   | 2.3   | 3.5#  |

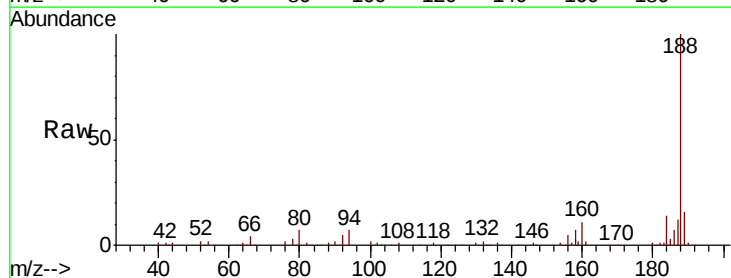


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BGC  
 Ion 89.00 (88.70 to 89.70): BGC  
 Ion 182.00 (181.70 to 182.70): E

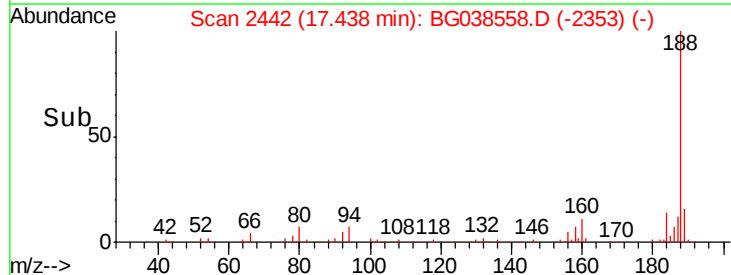
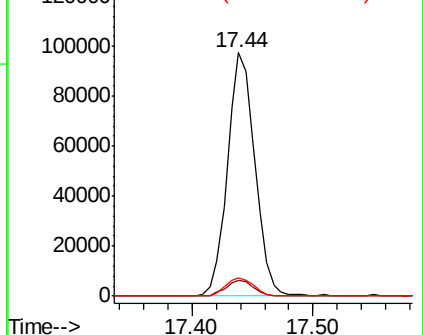


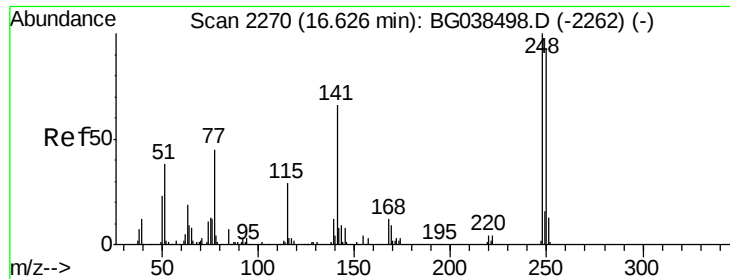
#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.44 min Scan# 2442  
 Delta R.T. -0.00 min  
 Lab File: BG038558.D  
 Acq: 14 Dec 2018 7:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 6.5   | 5.1   | 7.7   |
| 80      | 7.3   | 6.1   | 9.1   |



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

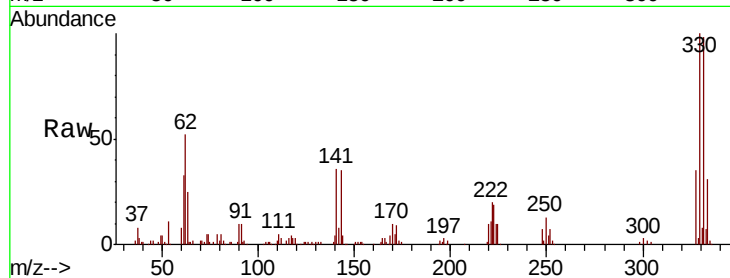




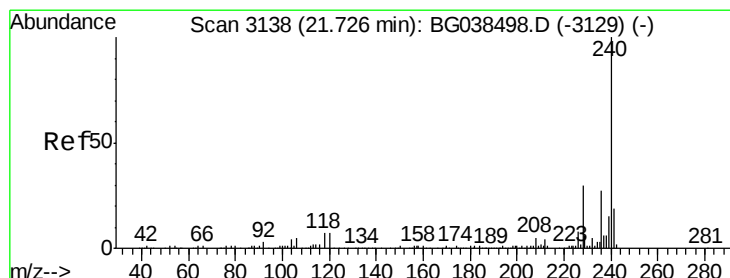
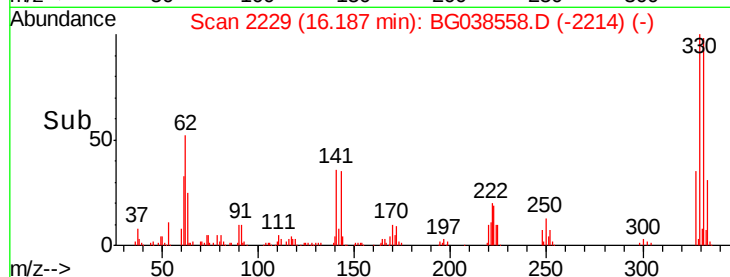
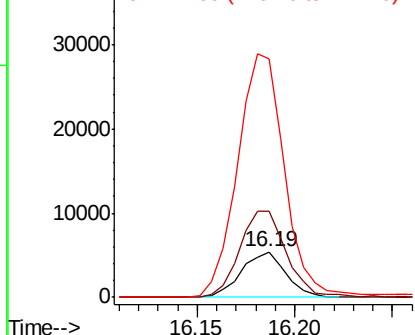
#67  
4-Bromophenyl-phenylether  
Concen: 4.529 ng  
RT: 16.19 min Scan# 2229  
Delta R.T. -0.44 min  
Lab File: BG038558.D  
Acq: 14 Dec 2018 7:49

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:248 Resp: 8502  
Ion Ratio Lower Upper  
248 100  
250 196.4 73.4 110.2#  
141 413.8 52.9 79.3#

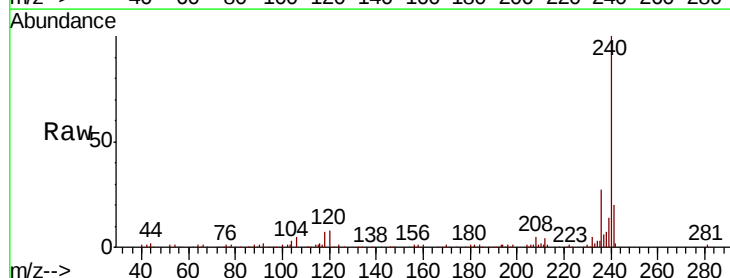


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

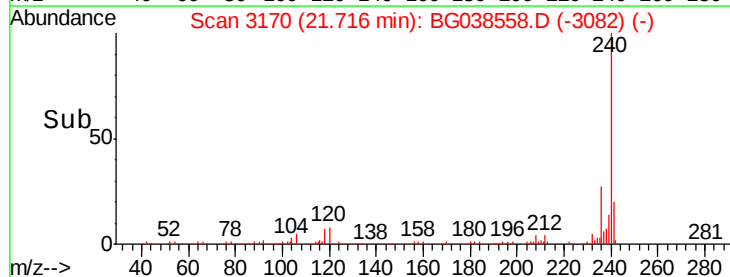
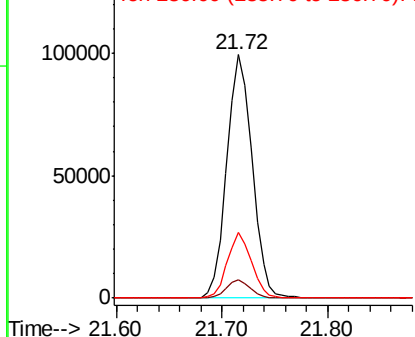


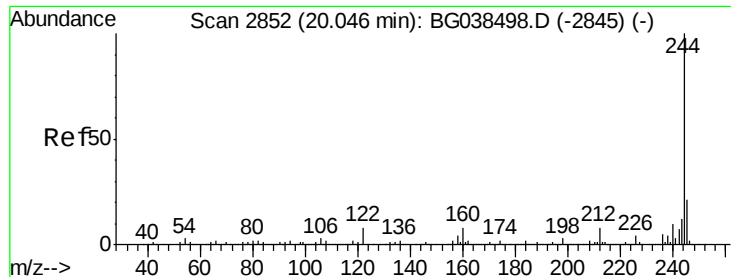
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.72 min Scan# 3170  
Delta R.T. -0.01 min  
Lab File: BG038558.D  
Acq: 14 Dec 2018 7:49

Tgt Ion:240 Resp: 165348  
Ion Ratio Lower Upper  
240 100  
120 7.7 5.3 7.9  
236 26.8 21.4 32.2



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





#79

Terphenyl-d14

Concen: 112.190 ng

RT: 20.04 min Scan# 2885

Delta R.T. -0.00 min

Lab File: BG038558.D

Acq: 14 Dec 2018 7:49

Instrument :

BNA\_F

ClientSampleId :

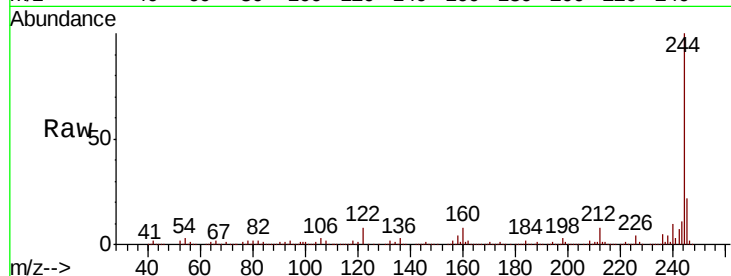
Tot Ion:244 Resp: 852370

Ion Ratio Lower Upper

244 100

212 8.2 6.2 9.2

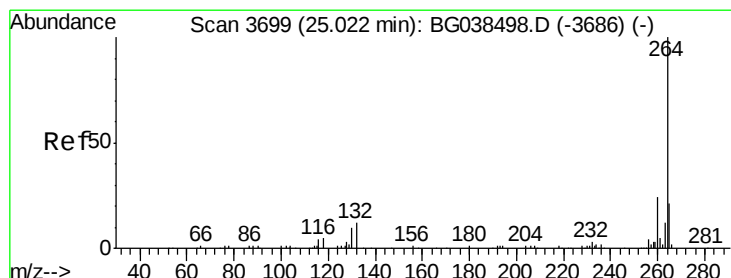
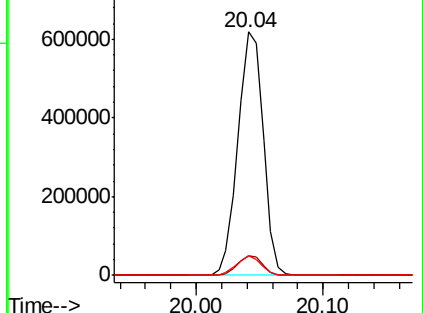
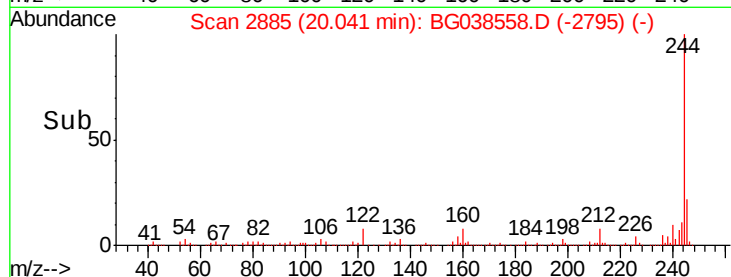
122 8.0 6.3 9.5



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#87

Perylene-d12

Concen: 20.000 ng

RT: 25.01 min Scan# 3731

Delta R.T. -0.01 min

Lab File: BG038558.D

Acq: 14 Dec 2018 7:49

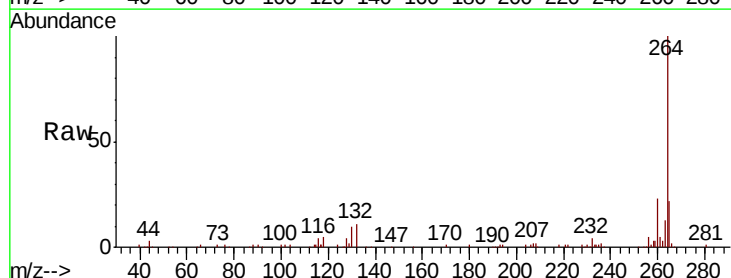
Tgt Ion:264 Resp: 173458

Ion Ratio Lower Upper

264 100

260 22.7 18.9 28.3

265 21.8 17.0 25.4



Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

