

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG100319\  
 Data File : BG043017.D  
 Acq On : 3 Oct 2019 18:27  
 Operator : JU  
 Sample : K5168-05  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 2019071-SS-COMPOSITE-11

Quant Time: Oct 04 06:34:29 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG092519.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Sep 25 15:35:52 2019  
 Response via : Initial Calibration

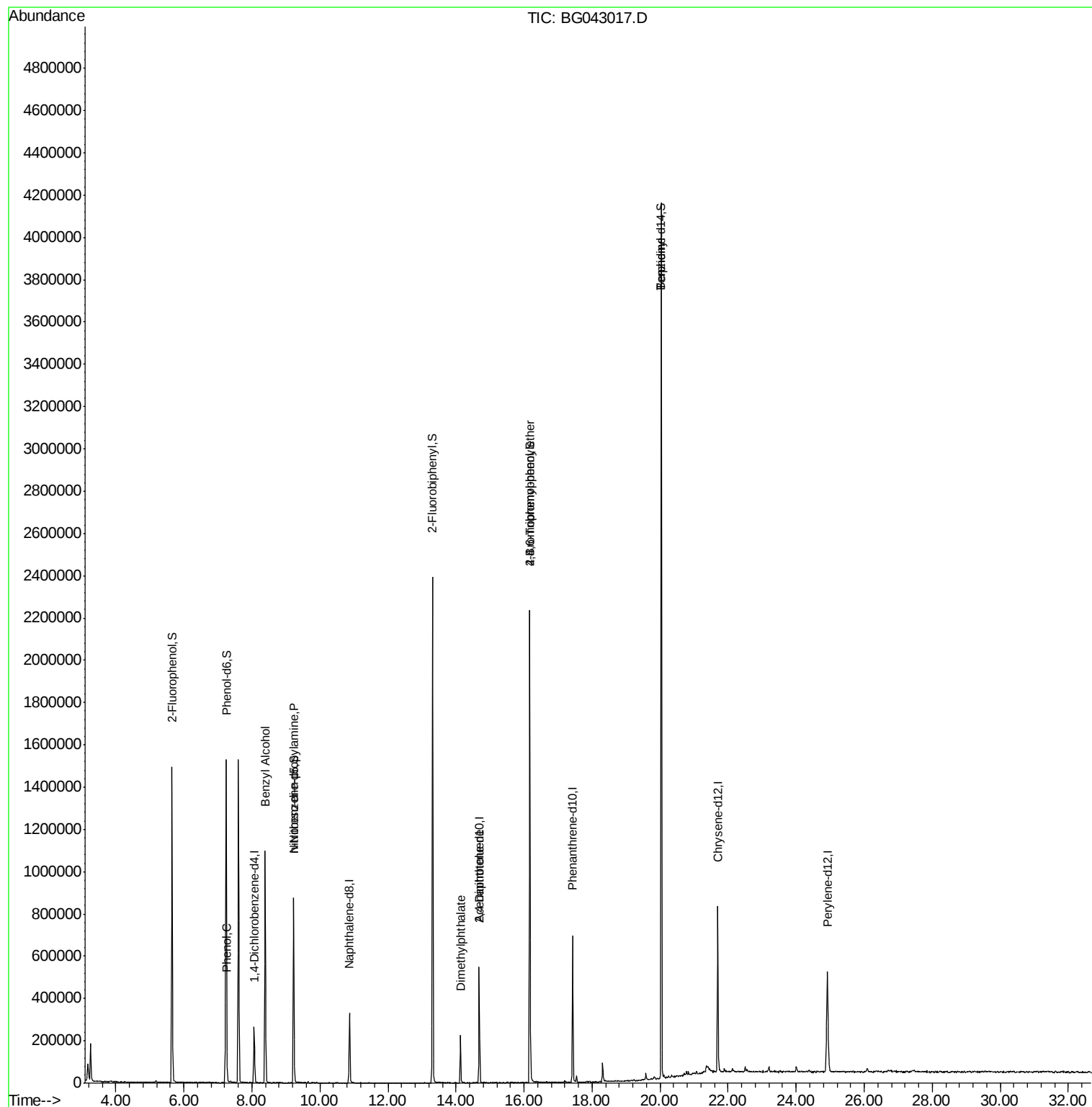
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.07  | 152  | 76071    | 20.00  | ng    | -0.01    |
| 21) Naphthalene-d8             | 10.87 | 136  | 285760   | 20.00  | ng    | -0.01    |
| 39) Acenaphthene-d10           | 14.68 | 164  | 199632   | 20.00  | ng    | -0.01    |
| 64) Phenanthrene-d10           | 17.43 | 188  | 455652   | 20.00  | ng    | -0.01    |
| 76) Chrysene-d12               | 21.70 | 240  | 481635   | 20.00  | ng    | -0.02    |
| 87) Perylene-d12               | 24.92 | 264  | 548195   | 20.00  | ng    | -0.04    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.65  | 112  | 632078   | 148.29 | ng    | 0.00     |
| 7) Phenol-d6                   | 7.24  | 99   | 911816   | 148.54 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 9.23  | 82   | 563671   | 95.88  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol       | 16.17 | 330  | 500751   | 145.87 | ng    | -0.01    |
| 45) 2-Fluorobiphenyl           | 13.31 | 172  | 1287988  | 93.53  | ng    | -0.01    |
| 79) Terphenyl-d14              | 20.04 | 244  | 2050407  | 90.72  | ng    | -0.01    |
| Target Compounds               |       |      |          |        |       |          |
| 10) Phenol                     | 7.27  | 94   | 26240    | 4.659  | ng    | 97       |
| 15) Benzyl Alcohol             | 8.39  | 79   | 9786     | 2.120  | ng    | # 64     |
| 19) n-Nitroso-di-n-propylamine | 9.23  | 70   | 77486    | 19.224 | ng    | # 68     |
| 50) Dimethylphthalate          | 14.14 | 163  | 158436   | 10.592 | ng    | # 97     |
| 57) 2,4-Dinitrotoluene         | 14.68 | 165  | 26492    | 5.679  | ng    | # 26     |
| 67) 4-Bromophenyl-phenylether  | 16.17 | 248  | 34557    | 6.043  | ng    | # 1      |
| 77) Benzidine                  | 20.04 | 184  | 33954    | 2.816  | ng    | # 91     |

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

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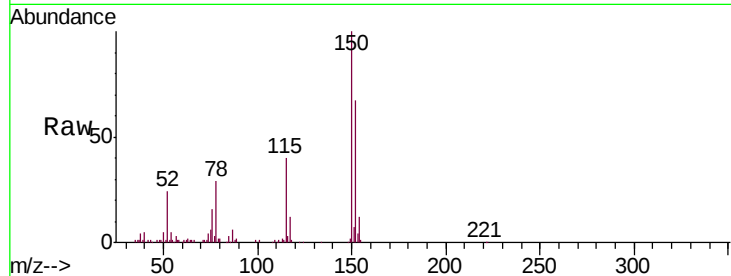


#1

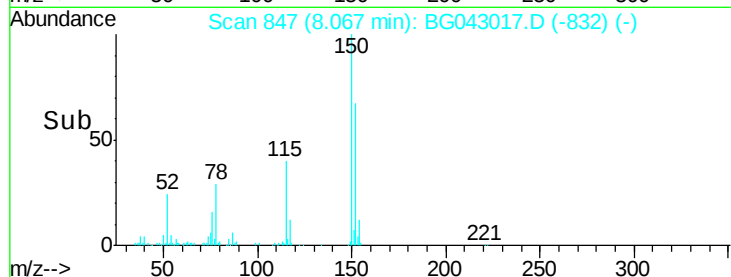
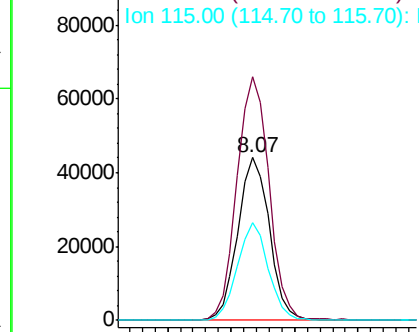
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.07 min Scan# 847  
Delta R.T. -0.01 min  
Lab File: BG043017.D  
Acq: 3 Oct 2019 18:27

Instrument :  
BNA\_G  
ClientSampleId :  
2019071-SS-COMPOSITE-11

Tgt Ion:152 Resp: 76071  
Ion Ratio Lower Upper  
152 100  
150 149.8 115.0 172.4  
115 60.0 47.0 70.6



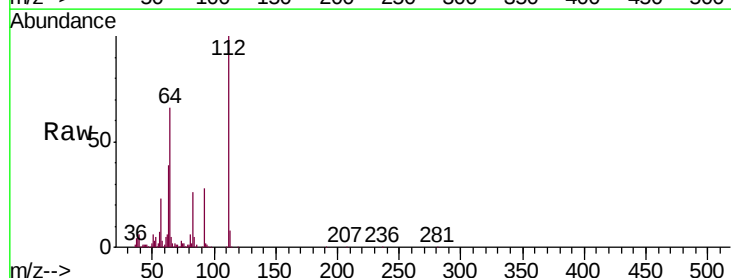
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



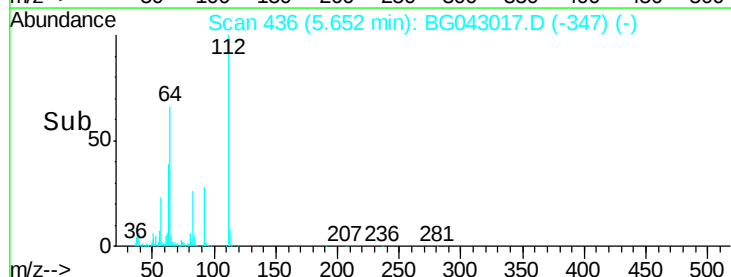
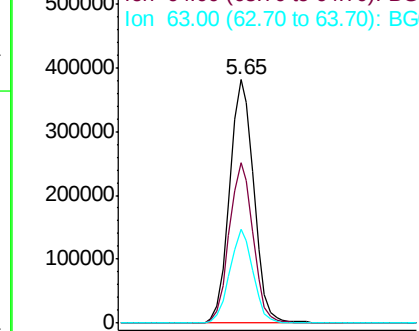
#5

2-Fluorophenol  
Concen: 148.285 ng  
RT: 5.65 min Scan# 436  
Delta R.T. -0.01 min  
Lab File: BG043017.D  
Acq: 3 Oct 2019 18:27

Tgt Ion:112 Resp: 632078  
Ion Ratio Lower Upper  
112 100  
64 66.1 56.6 84.8  
63 38.8 35.1 52.7



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: 148.544 ng

RT: 7.24 min Scan# 707

Delta R.T. 0.00 min

Lab File: BG043017.D

Acq: 3 Oct 2019 18:27

Instrument :

BNA\_G

ClientSampleId :

2019071-SS-COMPOSITE-11

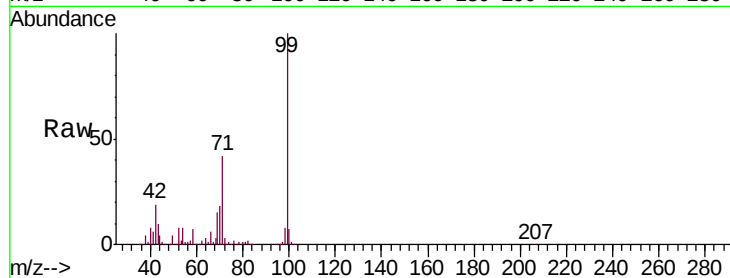
Tgt Ion: 99 Resp: 911816

Ion Ratio Lower Upper

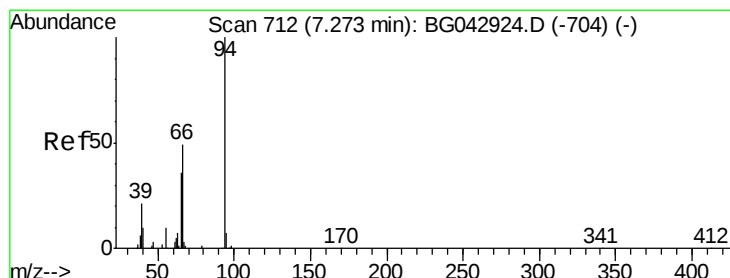
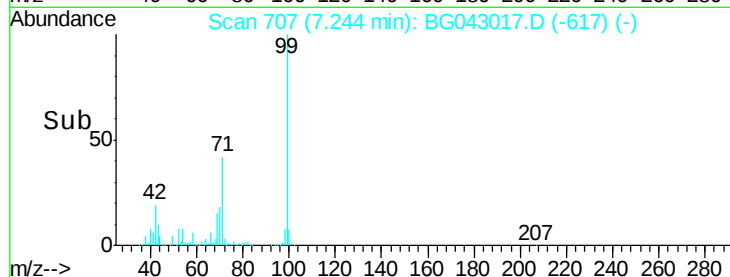
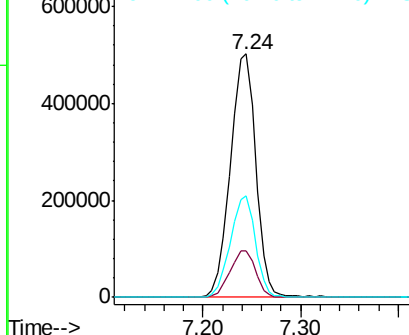
99 100

42 19.1 17.2 25.8

71 41.6 33.1 49.7



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



#10

Phenol

Concen: 4.659 ng

RT: 7.27 min Scan# 711

Delta R.T. -0.01 min

Lab File: BG043017.D

Acq: 3 Oct 2019 18:27

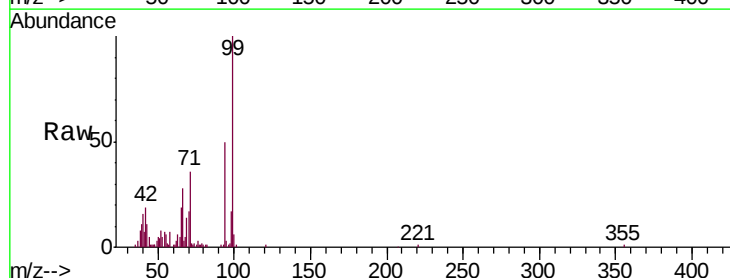
Tgt Ion: 94 Resp: 26240

Ion Ratio Lower Upper

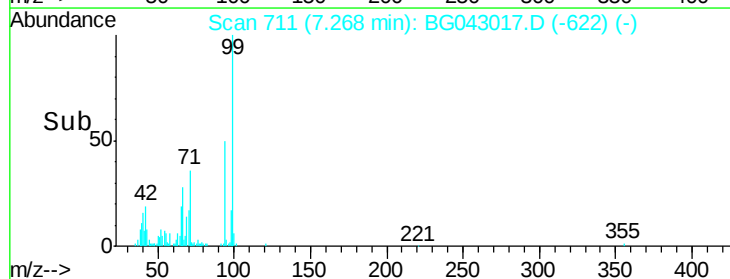
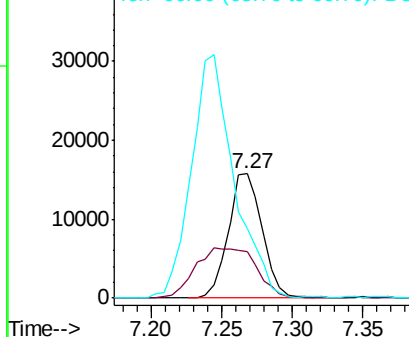
94 100

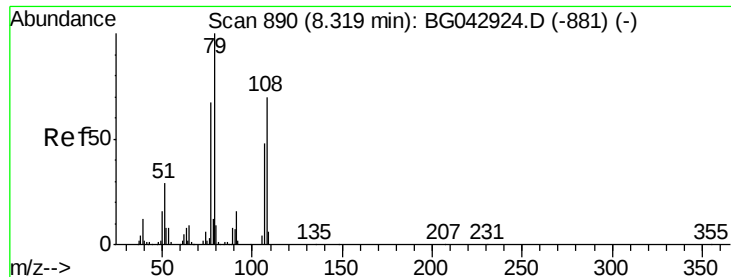
65 37.3 16.6 56.6

66 55.6 32.4 72.4



Abundance Ion 94.00 (93.70 to 94.70): BGC  
Ion 65.00 (64.70 to 65.70): BGC  
Ion 66.00 (65.70 to 66.70): BGC

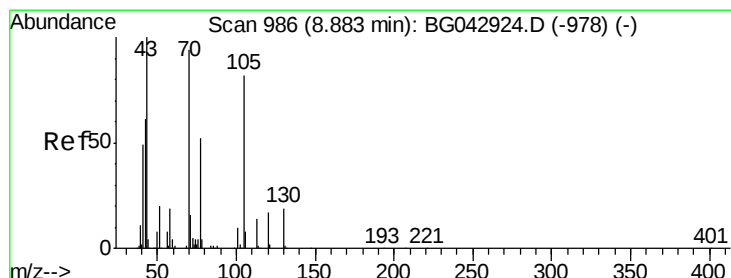
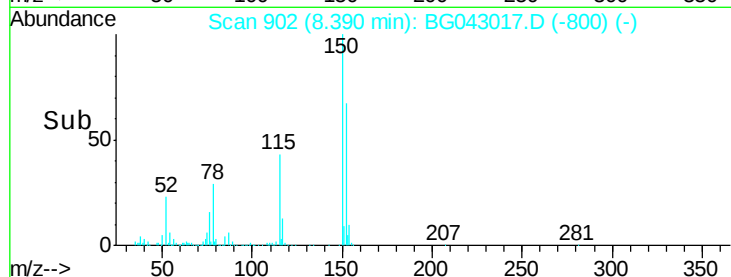
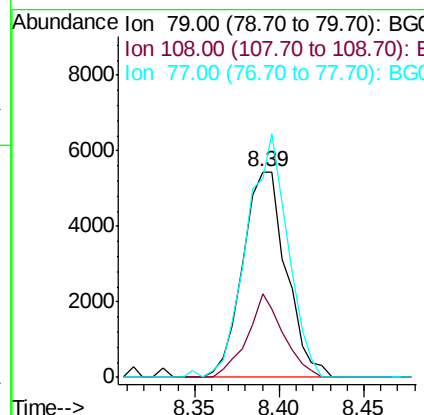
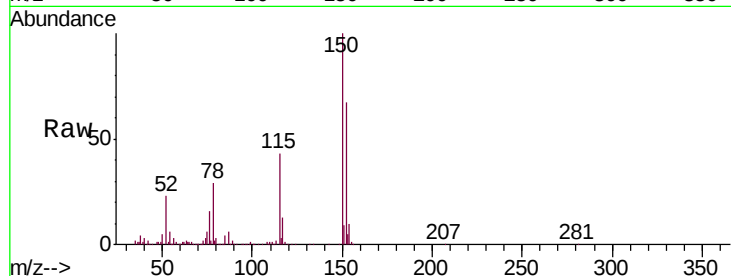




#15  
Benzyl Alcohol  
Concen: 2.120 ng  
RT: 8.39 min Scan# 902  
Delta R.T. 0.07 min  
Lab File: BG043017.D  
Acq: 3 Oct 2019 18:27

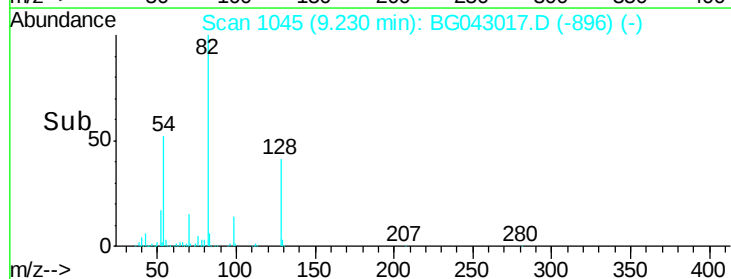
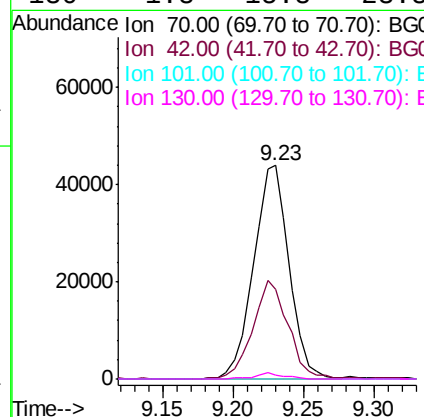
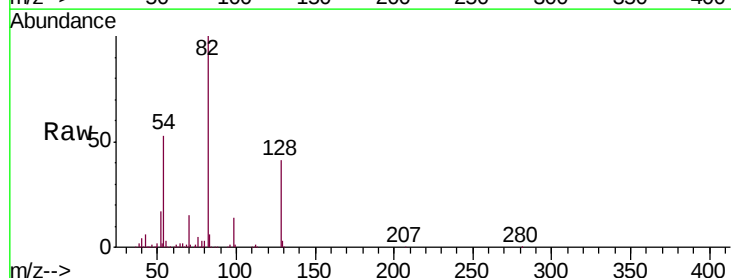
Instrument :  
BNA\_G  
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2019071-SS-COMPOSITE-11

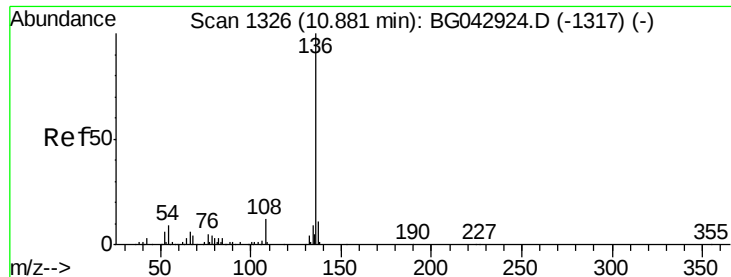
Tgt Ion: 79 Resp: 9786  
Ion Ratio Lower Upper  
79 100  
108 40.8 55.7 83.5#  
77 96.7 53.3 79.9#



#19  
n-Nitroso-di-n-propylamine  
Concen: 19.224 ng  
RT: 9.23 min Scan# 1045  
Delta R.T. 0.35 min  
Lab File: BG043017.D  
Acq: 3 Oct 2019 18:27

Tgt Ion: 70 Resp: 77486  
Ion Ratio Lower Upper  
70 100  
42 41.7 52.6 79.0#  
101 0.0 8.7 13.1#  
130 1.8 15.8 23.8#

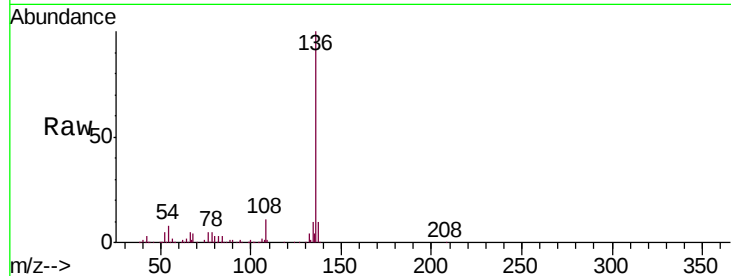




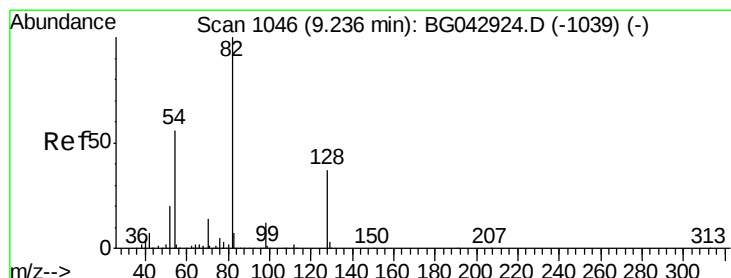
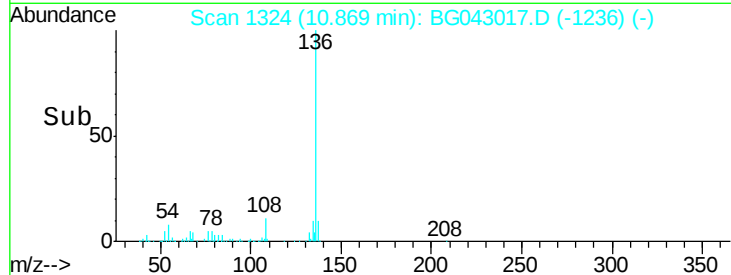
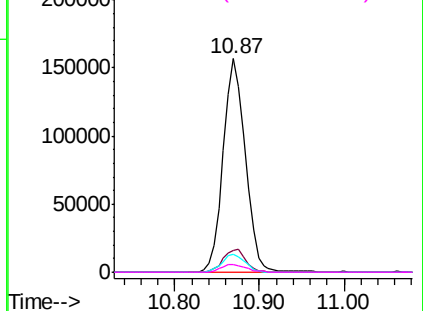
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.87 min Scan# 1324  
Delta R.T. -0.01 min  
Lab File: BG043017.D  
Acq: 3 Oct 2019 18:27

Instrument :  
BNA\_G  
ClientSampleId :  
2019071-SS-COMPOSITE-11

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 285760 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.4  | 8.5   | 12.7   |
| 54       | 8.1   | 7.4   | 11.2   |
| 68       | 3.6   | 3.6   | 5.4    |

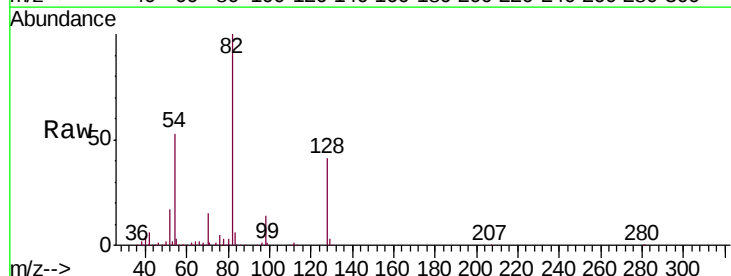


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

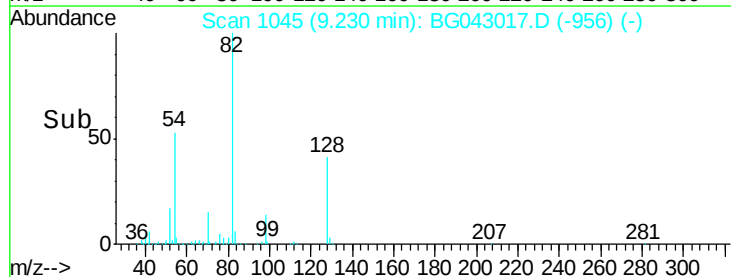
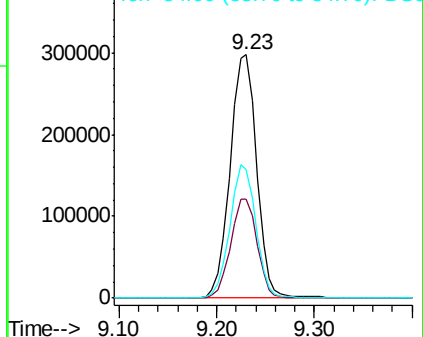


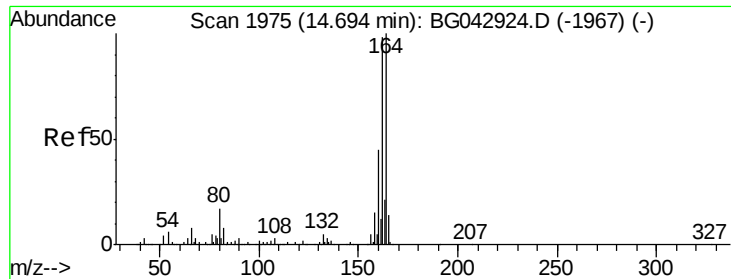
#23  
Nitrobenzene-d5  
Concen: 95.875 ng  
RT: 9.23 min Scan# 1045  
Delta R.T. -0.01 min  
Lab File: BG043017.D  
Acq: 3 Oct 2019 18:27

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 563671 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 40.7  | 29.5  | 44.3   |
| 54       | 52.6  | 44.6  | 67.0   |



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: 14.68 min Scan# 1973

Delta R.T. -0.01 min

Lab File: BG043017.D

Acq: 3 Oct 2019 18:27

Instrument :

BNA\_G

ClientSampleId :

2019071-SS-COMPOSITE-11

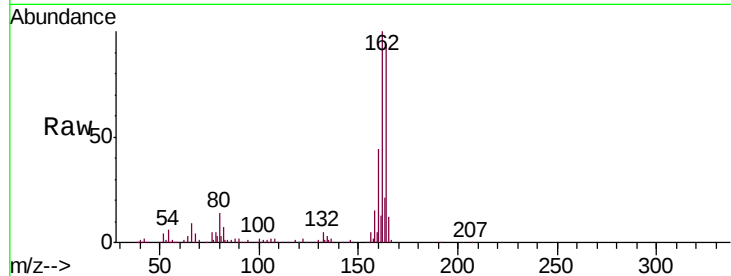
Tgt Ion:164 Resp: 199632

Ion Ratio Lower Upper

164 100

162 106.1 78.5 117.7

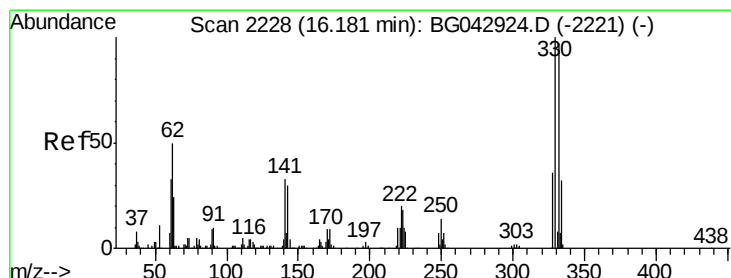
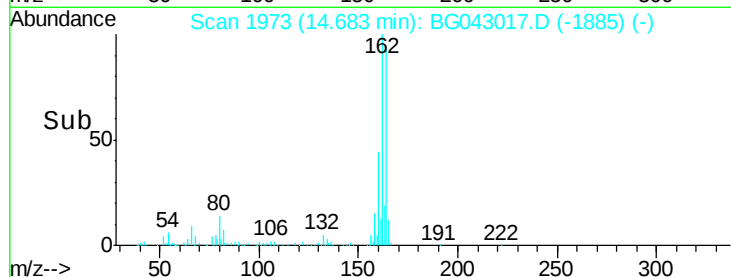
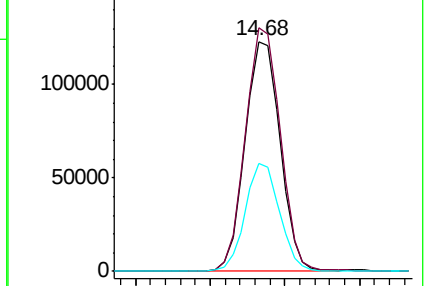
160 46.9 35.9 53.9



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: 145.873 ng

RT: 16.17 min Scan# 2226

Delta R.T. -0.01 min

Lab File: BG043017.D

Acq: 3 Oct 2019 18:27

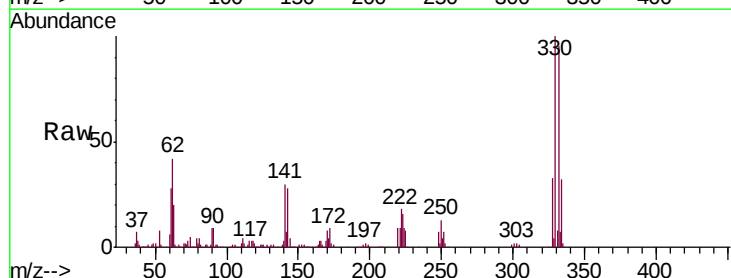
Tgt Ion:330 Resp: 500751

Ion Ratio Lower Upper

330 100

332 97.2 78.2 117.2

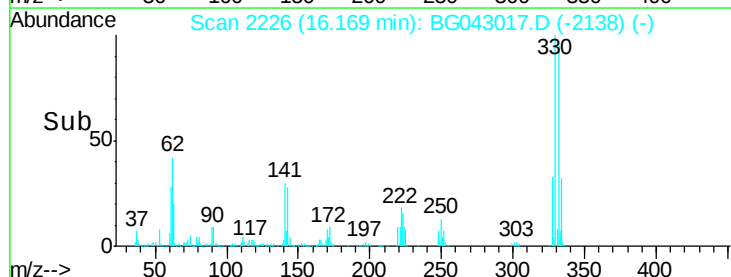
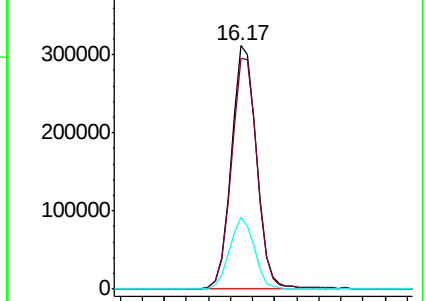
141 29.2 26.0 39.0

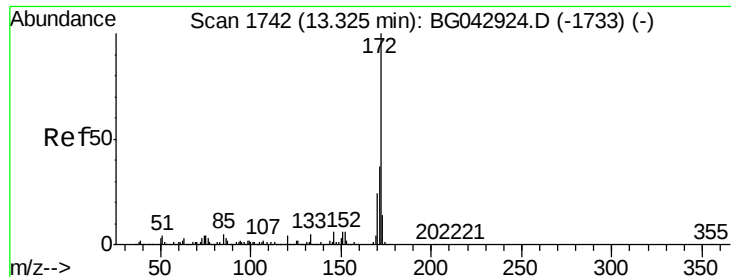


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

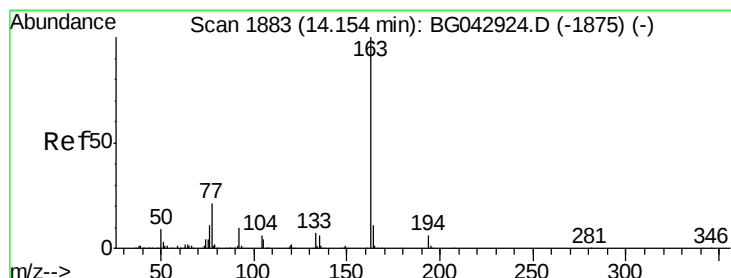
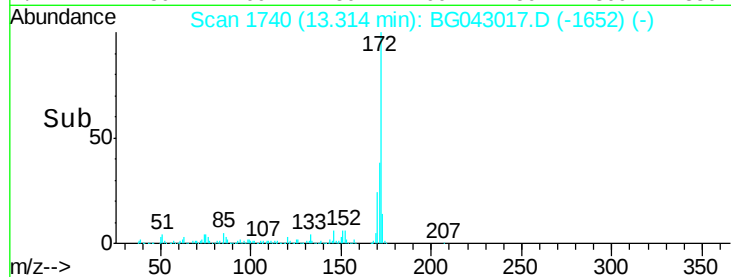
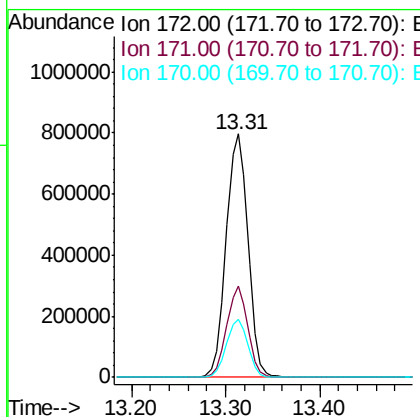
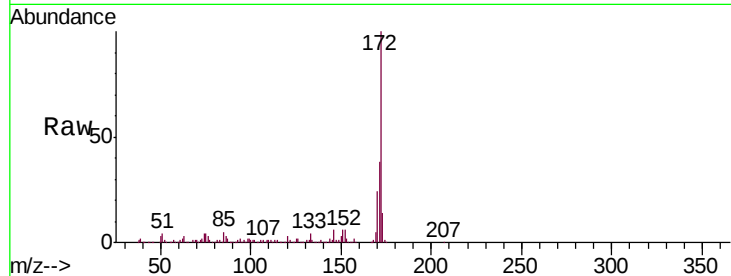




#45  
 2-Fluorobiphenyl  
 Concen: 93.532 ng  
 RT: 13.31 min Scan# 1740  
 Delta R.T. -0.01 min  
 Lab File: BG043017.D  
 Acq: 3 Oct 2019 18:27

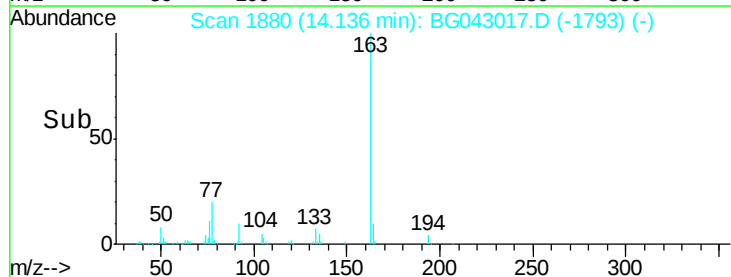
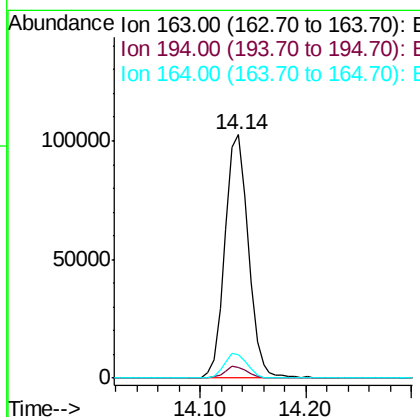
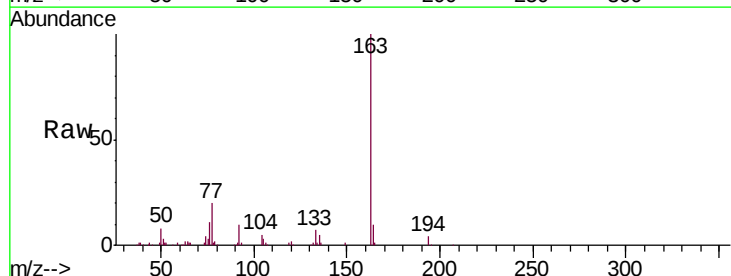
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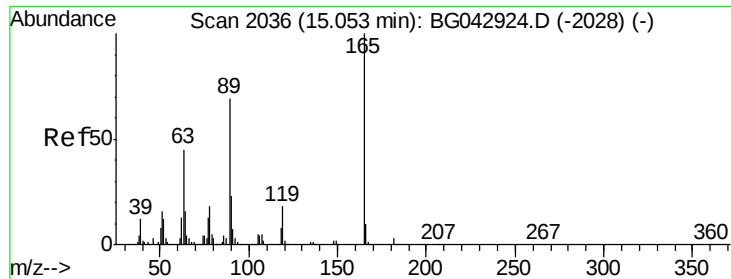
Tgt Ion:172 Resp: 1287988  
 Ion Ratio Lower Upper  
 172 100  
 171 37.7 29.6 44.4  
 170 24.0 19.6 29.4



#50  
 Dimethylphthalate  
 Concen: 10.592 ng  
 RT: 14.14 min Scan# 1880  
 Delta R.T. -0.02 min  
 Lab File: BG043017.D  
 Acq: 3 Oct 2019 18:27

Tgt Ion:163 Resp: 158436  
 Ion Ratio Lower Upper  
 163 100  
 194 4.2 4.4 6.6#  
 164 9.6 8.6 12.8

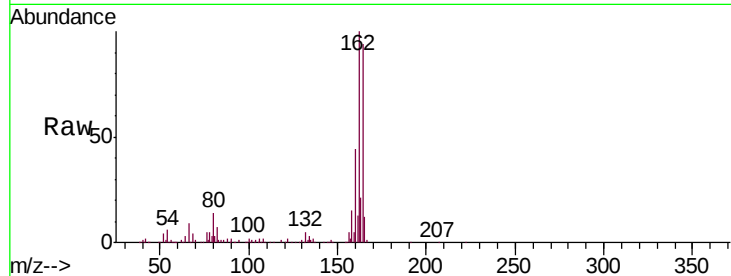




#57  
 2,4-Dinitrotoluene  
 Concen: 5.679 ng  
 RT: 14.68 min Scan# 1973  
 Delta R.T. -0.37 min  
 Lab File: BG043017.D  
 Acq: 3 Oct 2019 18:27

Instrument :  
 BNA\_G  
 ClientSampleId :  
 2019071-SS-COMPOSITE-11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 2.3   | 36.5  | 54.7# |
| 89      | 1.7   | 55.5  | 83.3# |
| 182     | 0.0   | 2.4   | 3.6#  |

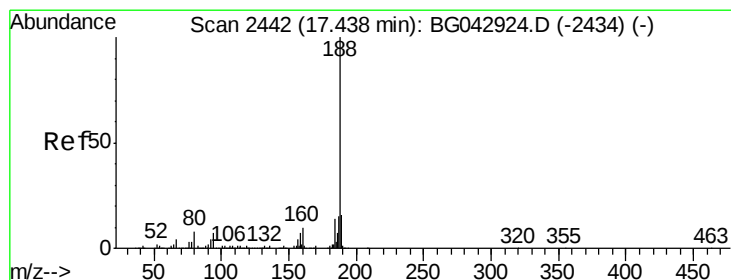
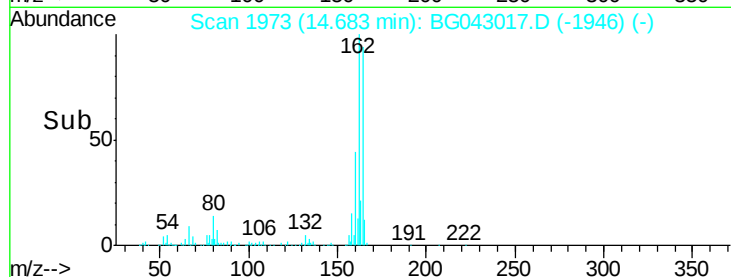
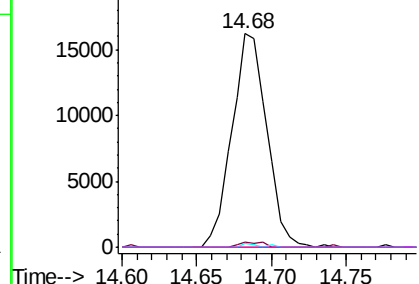


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BGC

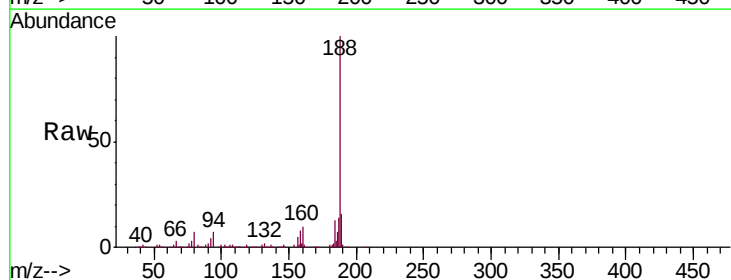
Ion 89.00 (88.70 to 89.70): BGC

Ion 182.00 (181.70 to 182.70): E



#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.43 min Scan# 2440  
 Delta R.T. -0.01 min  
 Lab File: BG043017.D  
 Acq: 3 Oct 2019 18:27

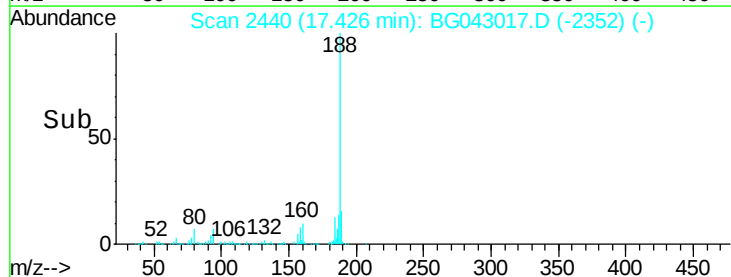
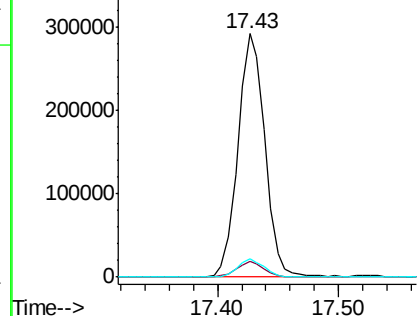
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 6.5   | 5.7   | 8.5   |
| 80      | 7.4   | 6.5   | 9.7   |

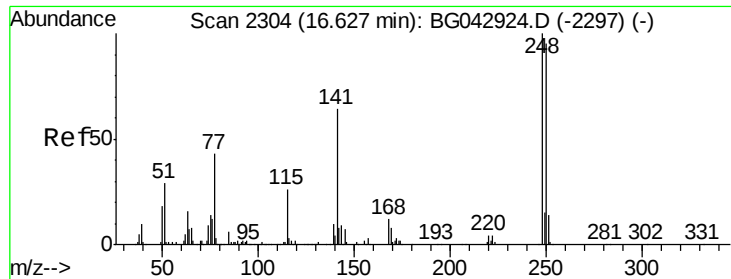


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BGC

Ion 80.00 (79.70 to 80.70): BGC

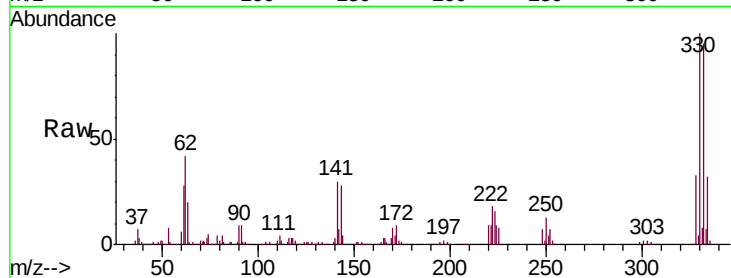




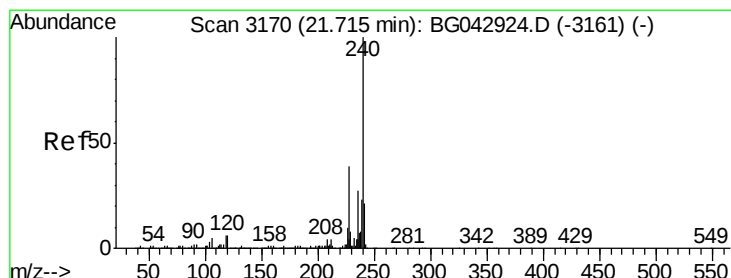
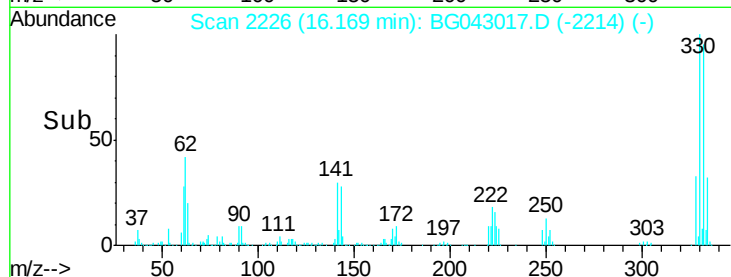
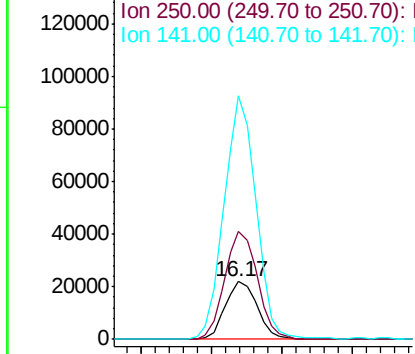
#67  
4-Bromophenyl-phenylether  
Concen: 6.043 ng  
RT: 16.17 min Scan# 2226  
Delta R.T. -0.46 min  
Lab File: BG043017.D  
Acq: 3 Oct 2019 18:27

Instrument :  
BNA\_G  
ClientSampleId :  
2019071-SS-COMPOSITE-11

Tgt Ion:248 Resp: 34557  
Ion Ratio Lower Upper  
248 100  
250 187.3 75.8 113.8#  
141 423.6 51.1 76.7#

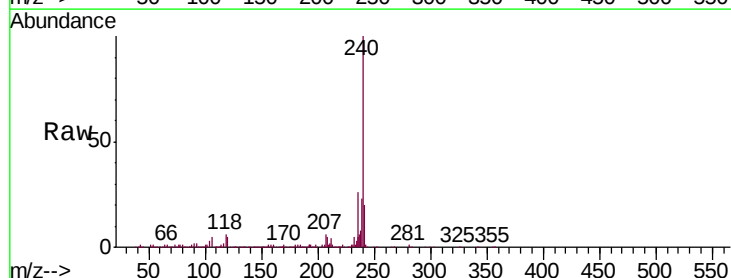


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

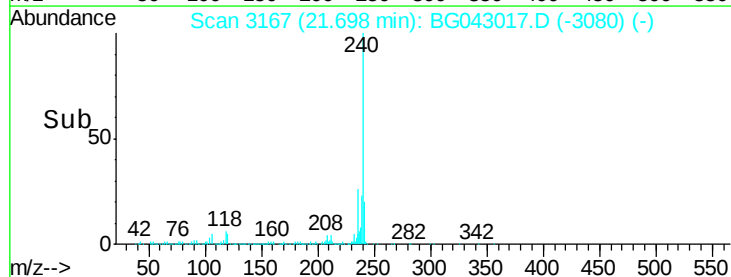
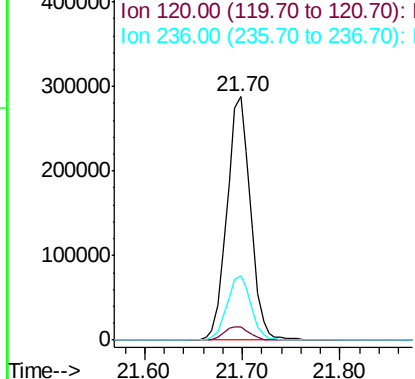


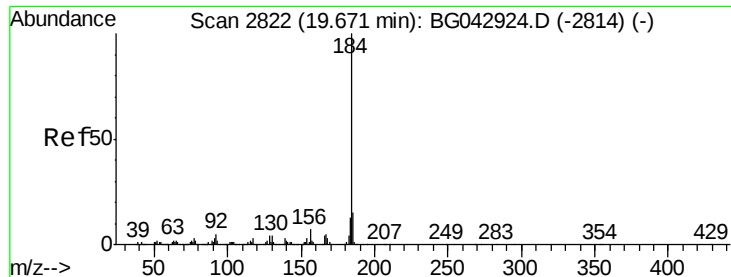
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.70 min Scan# 3167  
Delta R.T. -0.02 min  
Lab File: BG043017.D  
Acq: 3 Oct 2019 18:27

Tgt Ion:240 Resp: 481635  
Ion Ratio Lower Upper  
240 100  
120 5.5 4.8 7.2  
236 26.3 21.4 32.0



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





#77

Benzidine

Concen: 2.816 ng

RT: 20.04 min Scan# 2884

Delta R.T. 0.36 min

Lab File: BG043017.D

Acq: 3 Oct 2019 18:27

Instrument :

BNA\_G

ClientSampleId :

2019071-SS-COMPOSITE-11

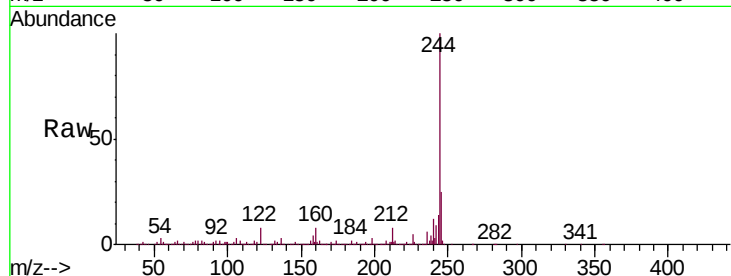
Tgt Ion:184 Resp: 33954

Ion Ratio Lower Upper

184 100

185 19.0 11.8 17.8#

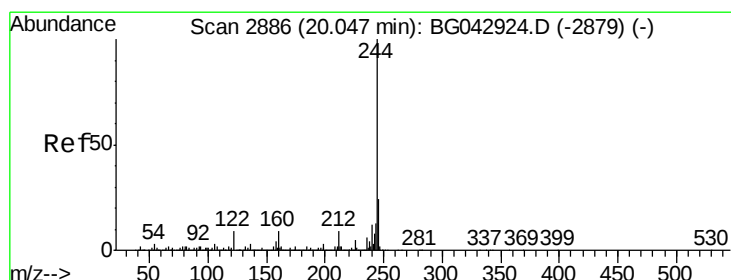
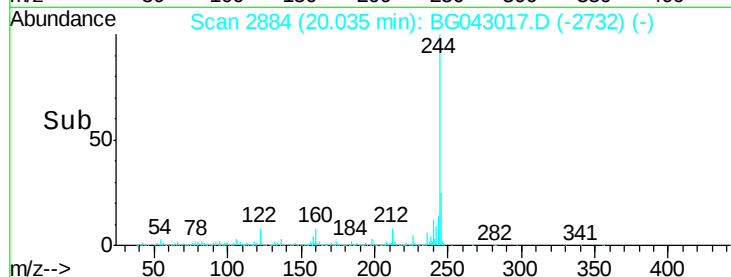
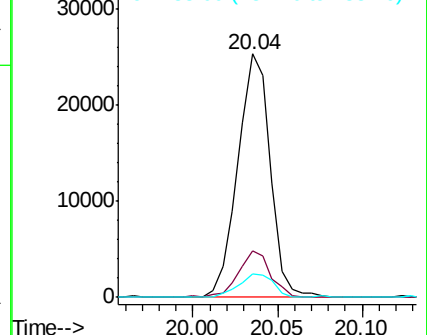
183 9.7 10.1 15.1#



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



#79

Terphenyl-d14

Concen: 90.715 ng

RT: 20.04 min Scan# 2884

Delta R.T. -0.01 min

Lab File: BG043017.D

Acq: 3 Oct 2019 18:27

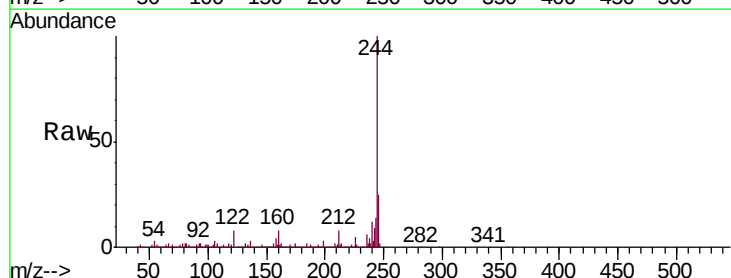
Tgt Ion:244 Resp: 2050407

Ion Ratio Lower Upper

244 100

212 8.4 7.4 11.0

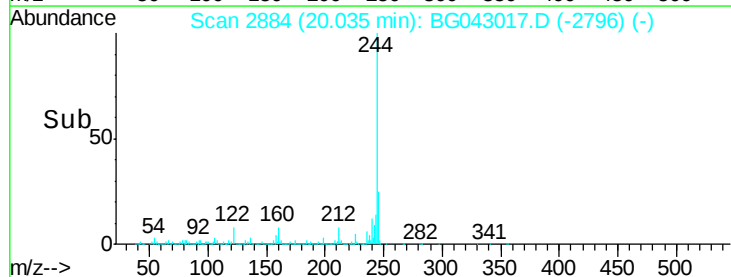
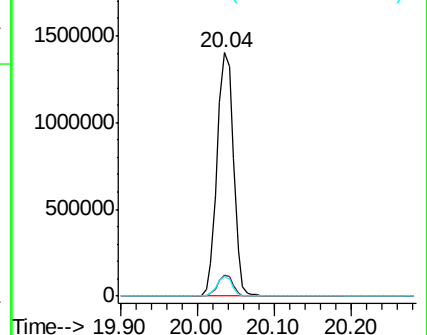
122 8.0 7.0 10.4

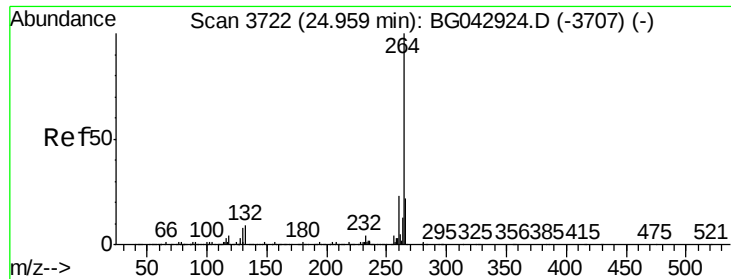


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

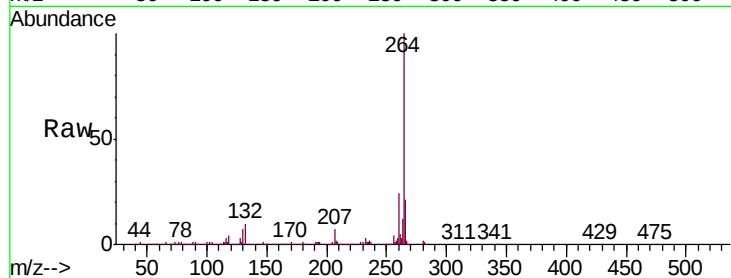




#87  
Perylene-d12  
Concen: 20.000 ng  
RT: 24.92 min Scan# 3715  
Delta R.T. -0.04 min  
Lab File: BG043017.D  
Acq: 3 Oct 2019 18:27

Instrument :  
BNA\_G  
ClientSampleId :  
2019071-SS-COMPOSITE-11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.1  | 18.7  | 28.1  |
| 265     | 20.9  | 17.7  | 26.5  |



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

