

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG071020\  
 Data File : BG046009.D  
 Acq On : 10 Jul 2020 16:29  
 Operator : CG/JU  
 Sample : L3203-15  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 RO-06

Quant Time: Jul 10 17:25:34 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG070620.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jul 07 09:58:42 2020  
 Response via : Initial Calibration

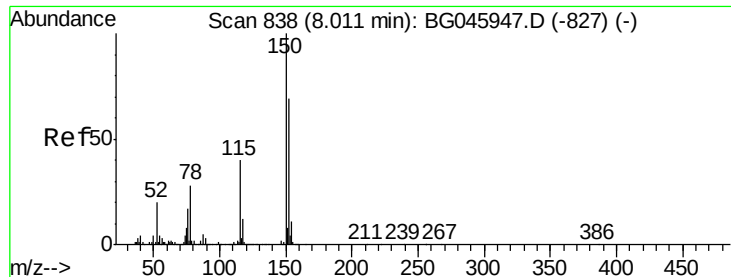
| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.01  | 152  | 129094   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 10.80 | 136  | 510150   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 14.63 | 164  | 323890   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 17.37 | 188  | 794082   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 21.62 | 240  | 764300   | 20.00 | ng    | -0.01    |
| 86) Perylene-d12          | 24.78 | 264  | 746888   | 20.00 | ng    | -0.01    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.59  | 112  | 781316   | 98.15  | ng    | 0.00     |
| 7) Phenol-d6                | 7.16  | 99   | 1027774  | 89.68  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.16  | 82   | 822729   | 92.82  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 16.11 | 330  | 424139   | 141.10 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 13.26 | 172  | 1541133  | 74.22  | ng    | 0.00     |
| 79) Terphenyl-d14           | 19.98 | 244  | 2659449  | 77.44  | ng    | 0.00     |

| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 19) n-Nitroso-di-n-propylamine | 9.16  | 70   | 110486   | 13.723 | ng    | # 80   |
| 32) Benzoic acid               | 10.28 | 122  | 136      | 6.532  | ng    | # 90   |
| 48) 2-Nitroaniline             | 13.96 | 65   | 136      | 3.393  | ng    | # 7    |
| 51) 2,6-Dinitrotoluene         | 14.63 | 165  | 42763    | 12.469 | ng    | # 18   |
| 53) 3-Nitroaniline             | 14.59 | 138  | 63       | 2.994  | ng    | # 1    |
| 54) 2,4-Dinitrophenol          | 14.71 | 184  | 75       | 6.153  | ng    | # 1    |
| 57) 2,4-Dinitrotoluene         | 14.63 | 165  | 42763    | 10.997 | ng    | # 19   |
| 65) 4,6-Dinitro-2-methylphenol | 15.86 | 198  | 65       | 6.811  | ng    | # 1    |
| 67) 4-Bromophenyl-phenylether  | 16.11 | 248  | 29773    | 3.357  | ng    | # 1    |
| 70) Pentachlorophenol          | 17.02 | 266  | 55277    | 11.171 | ng    | # 97   |

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



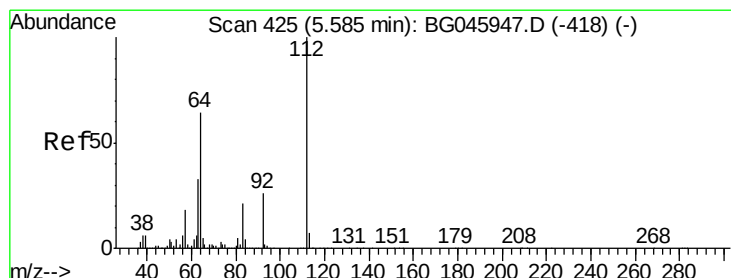
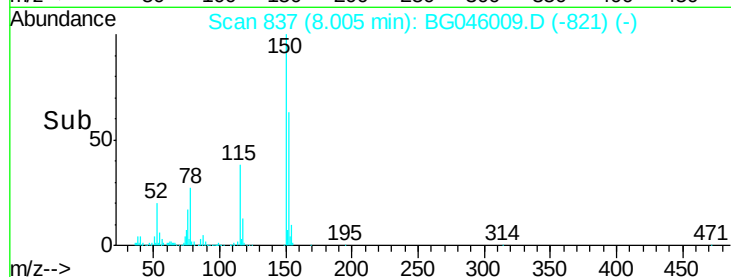
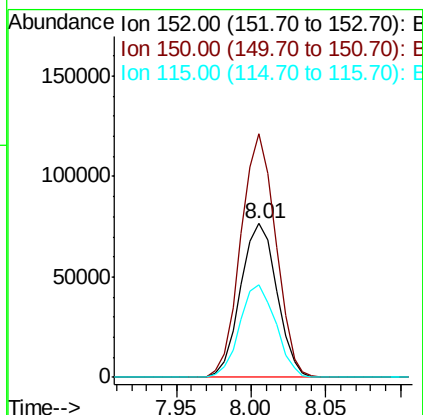
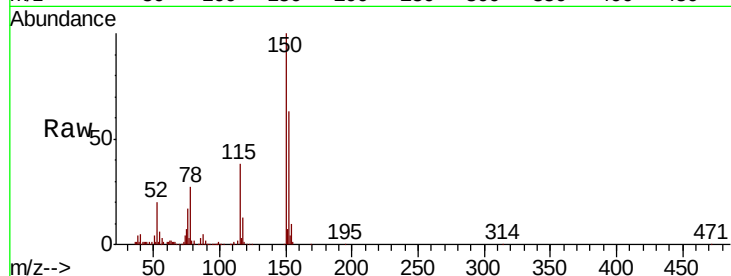


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.01 min Scan# 837  
Delta R.T. -0.01 min  
Lab File: BG046009.D  
Acq: 10 Jul 2020 16:29

Instrument :  
BNA\_G  
ClientSampleId :  
RO-06

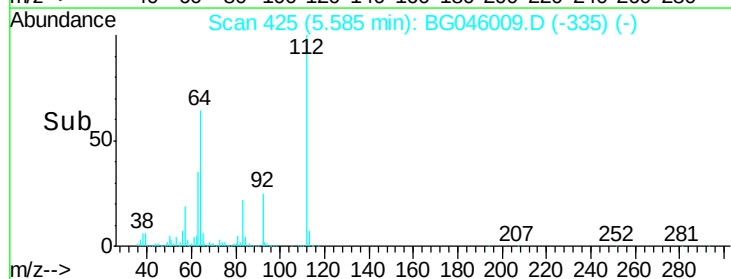
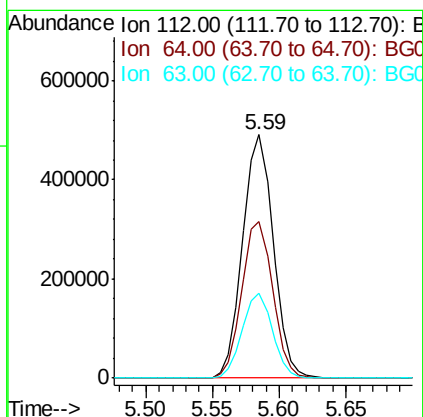
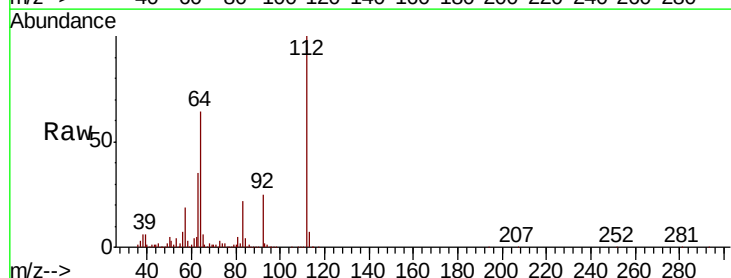
Tot Ion:152 Resp: 129094  
Ion Ratio Lower Upper  
152 100  
150 158.5 116.7 175.1  
115 60.6 47.4 71.0

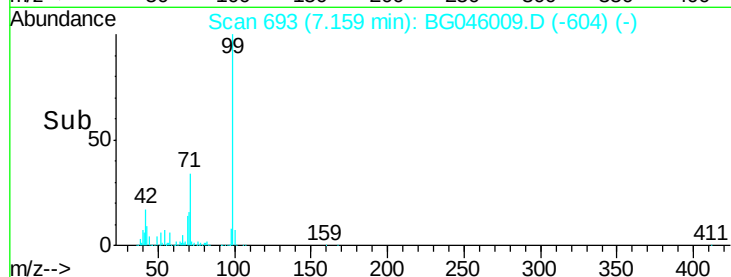
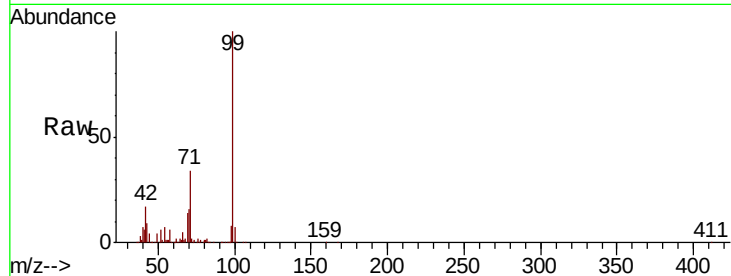
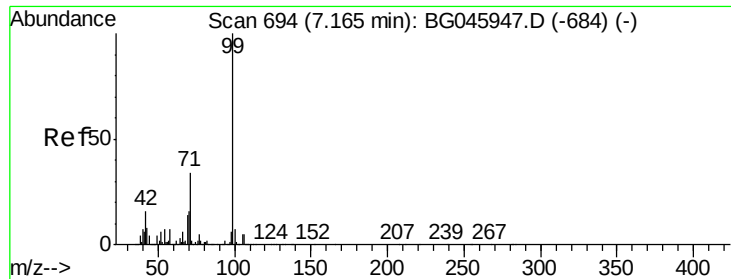


#5

2-Fluorophenol  
Concen: 98.148 ng  
RT: 5.59 min Scan# 425  
Delta R.T. 0.00 min  
Lab File: BG046009.D  
Acq: 10 Jul 2020 16:29

Tgt Ion:112 Resp: 781316  
Ion Ratio Lower Upper  
112 100  
64 64.5 51.4 77.2  
63 34.8 26.6 40.0





#7

Phenol-d6

Concen: 89.676 ng

RT: 7.16 min Scan# 693

Delta R.T. -0.01 min

Lab File: BG046009.D

Acq: 10 Jul 2020 16:29

Instrument :

BNA\_G

ClientSampleId :

RO-06

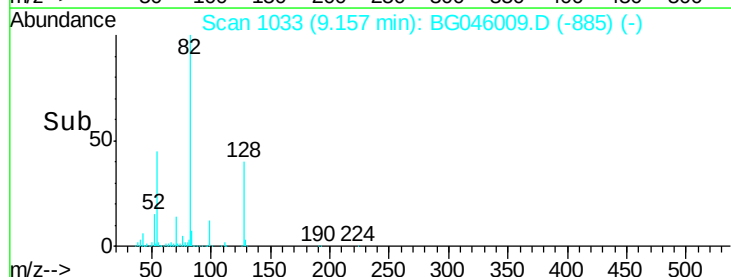
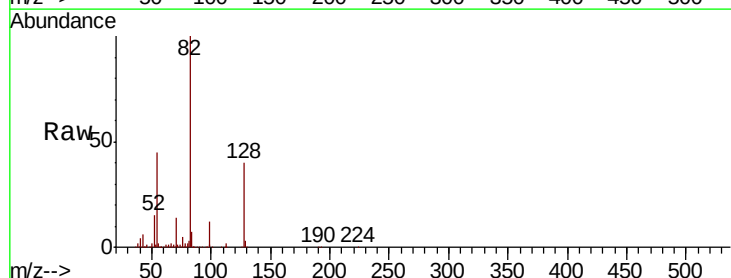
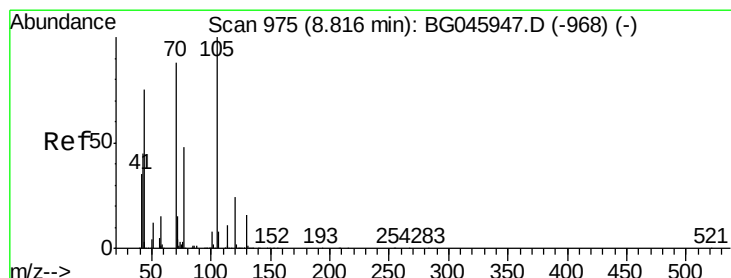
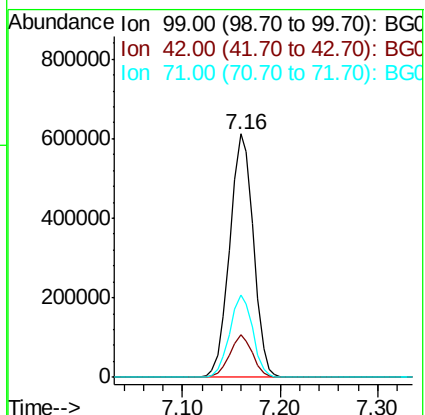
Tot Ion: 99 Resp: 1027774

Ion Ratio Lower Upper

99 100

42 17.3 13.0 19.4

71 33.7 27.5 41.3



#19

n-Nitroso-di-n-propylamine

Concen: 13.723 ng

RT: 9.16 min Scan# 1033

Delta R.T. 0.34 min

Lab File: BG046009.D

Acq: 10 Jul 2020 16:29

Tgt Ion: 70 Resp: 110486

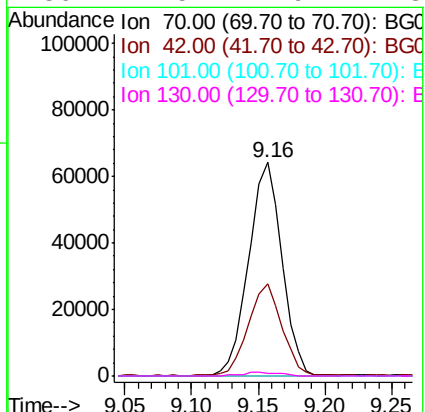
Ion Ratio Lower Upper

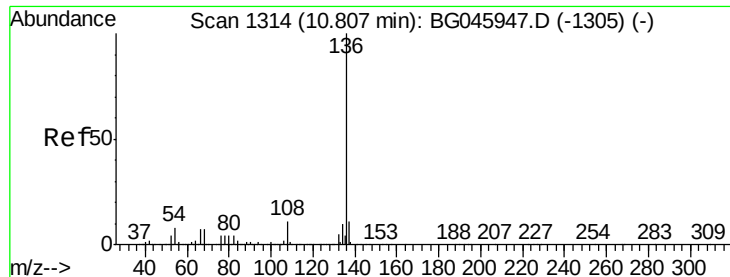
70 100

42 42.9 41.4 62.0

101 0.0 7.1 10.7#

130 1.5 14.9 22.3#

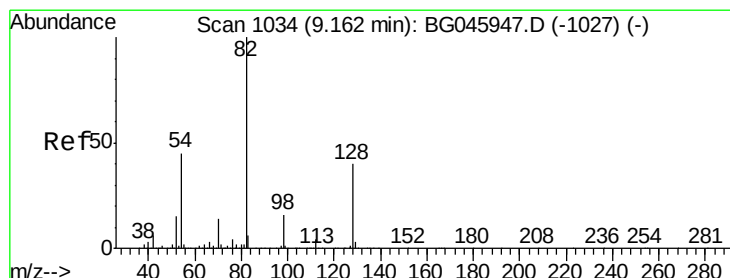
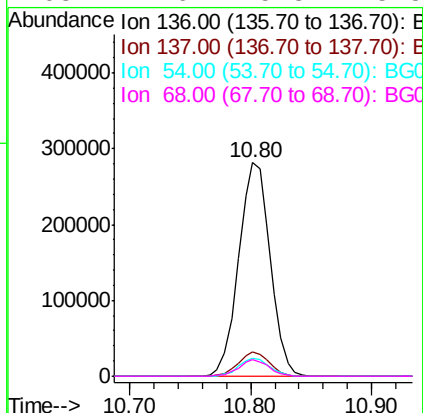
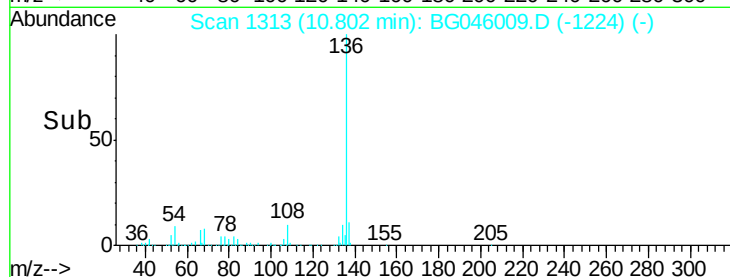
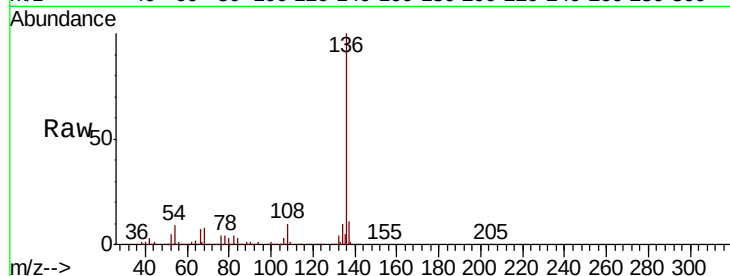




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.80 min Scan# 1313  
Delta R.T. -0.01 min  
Lab File: BG046009.D  
Acq: 10 Jul 2020 16:29

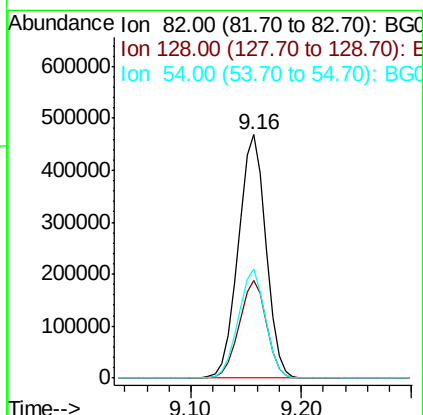
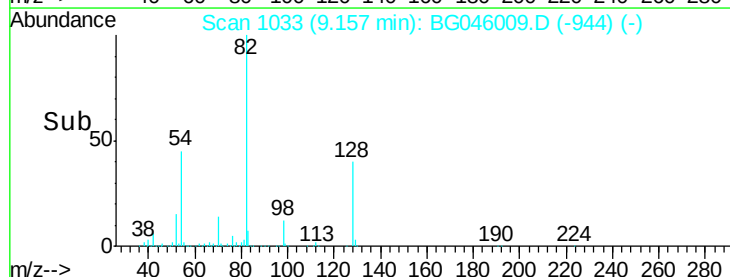
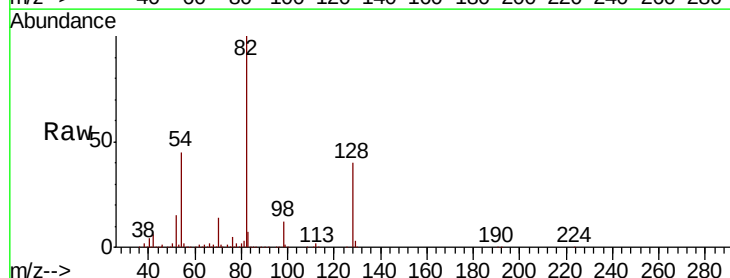
Instrument :  
BNA\_G  
ClientSampleId :  
RO-06

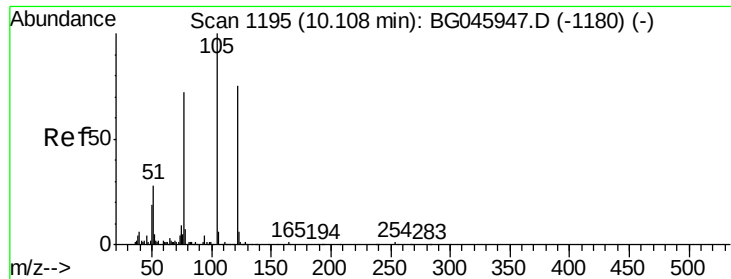
|             |       |        |
|-------------|-------|--------|
| Tot Ion:136 | Resp: | 510150 |
| Ion Ratio   | Lower | Upper  |
| 136 100     |       |        |
| 137 11.4    | 9.2   | 13.8   |
| 54 8.7      | 6.2   | 9.4    |
| 68 7.6      | 5.8   | 8.8    |



#23  
Nitrobenzene-d5  
Concen: 92.825 ng  
RT: 9.16 min Scan# 1033  
Delta R.T. -0.01 min  
Lab File: BG046009.D  
Acq: 10 Jul 2020 16:29

|             |              |
|-------------|--------------|
| Tgt Ion: 82 | Resp: 822729 |
| Ion Ratio   | Lower Upper  |
| 82 100      |              |
| 128 40.1    | 32.2 48.4    |
| 54 44.6     | 35.8 53.6    |

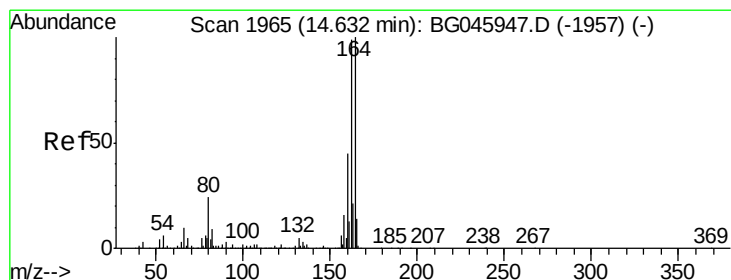
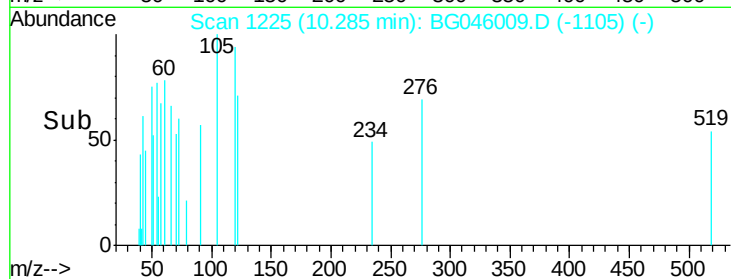
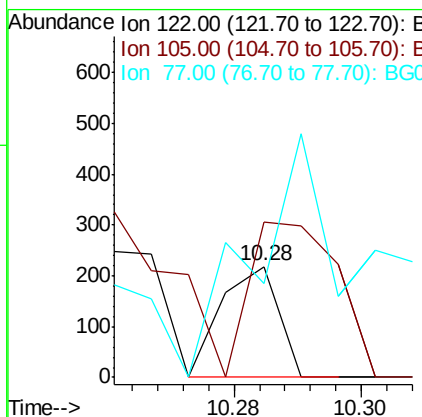
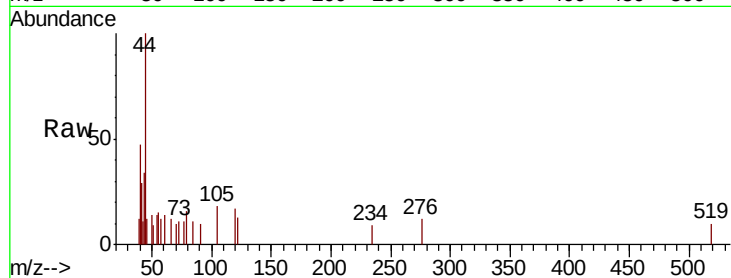




#32  
Benzoic acid  
Concen: 6.532 ng  
RT: 10.28 min Scan# 1225  
Delta R.T. 0.18 min  
Lab File: BG046009.D  
Acq: 10 Jul 2020 16:29

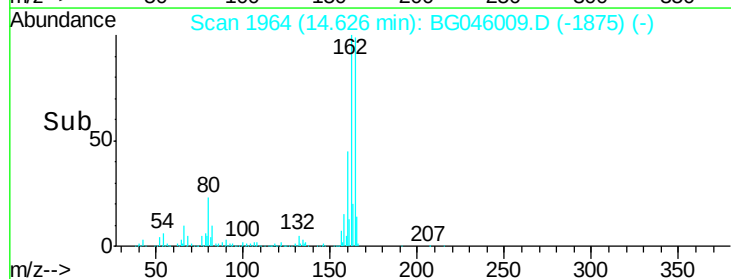
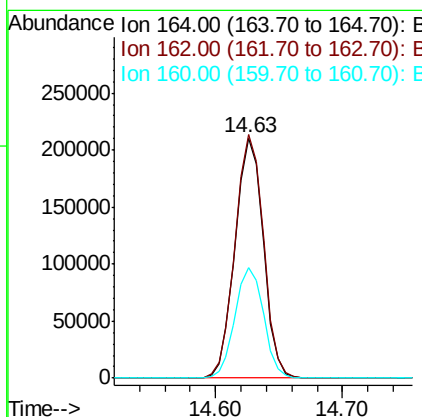
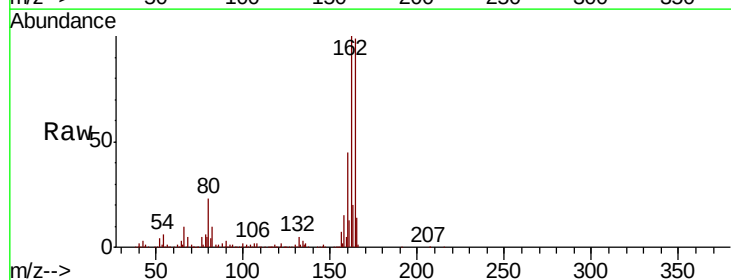
Instrument :  
BNA\_G  
ClientSampleId :  
RO-06

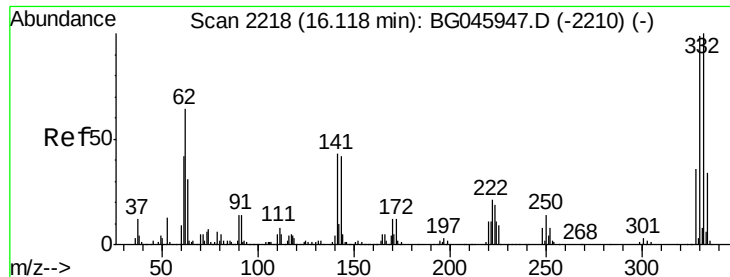
Tot Ion:122 Resp: 136  
Ion Ratio Lower Upper  
122 100  
105 140.4 110.8 150.8  
77 84.4 76.4 116.4



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.63 min Scan# 1964  
Delta R.T. -0.01 min  
Lab File: BG046009.D  
Acq: 10 Jul 2020 16:29

Tgt Ion:164 Resp: 323890  
Ion Ratio Lower Upper  
164 100  
162 101.4 79.3 118.9  
160 46.0 35.7 53.5





#42

2,4,6-Tribromophenol

Concen: 141.096 ng

RT: 16.11 min Scan# 2217

Delta R.T. -0.01 min

Lab File: BG046009.D

Acq: 10 Jul 2020 16:29

Instrument :

BNA\_G

ClientSampleId :

RO-06

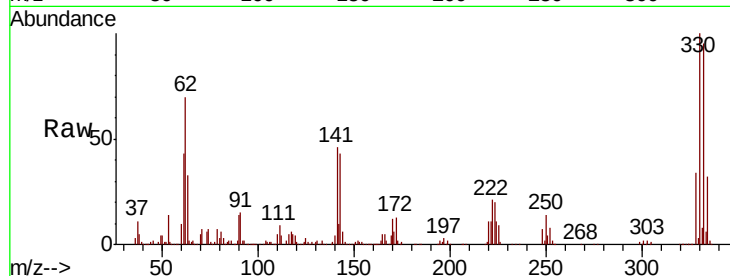
Tot Ion:330 Resp: 424139

Ion Ratio Lower Upper

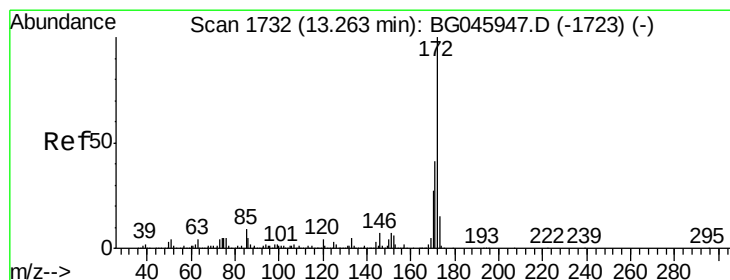
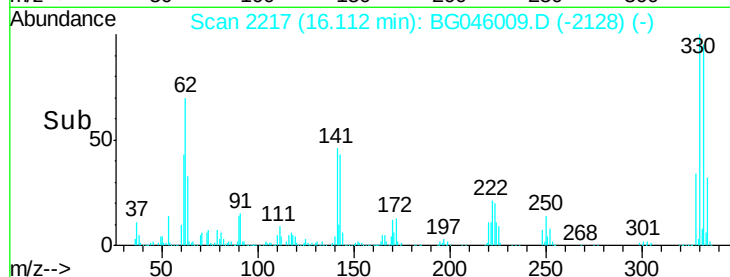
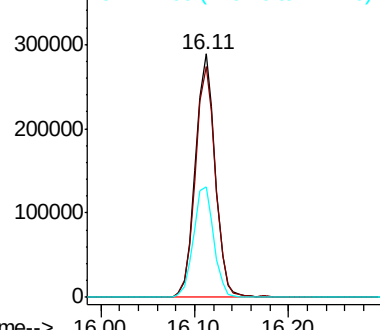
330 100

332 96.3 78.3 117.5

141 46.8 36.6 54.8



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: 74.220 ng

RT: 13.26 min Scan# 1731

Delta R.T. -0.01 min

Lab File: BG046009.D

Acq: 10 Jul 2020 16:29

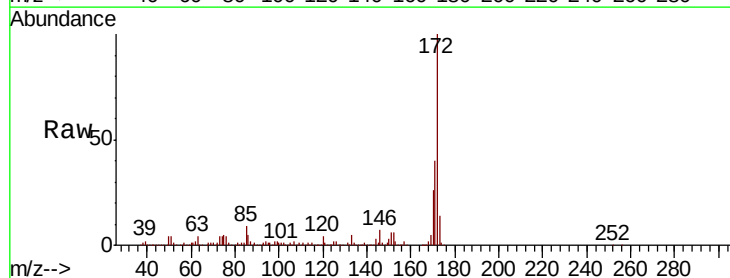
Tgt Ion:172 Resp: 1541133

Ion Ratio Lower Upper

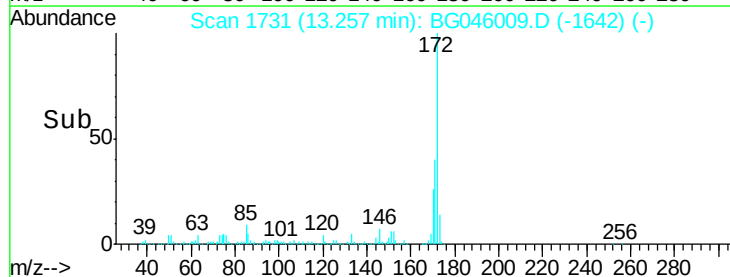
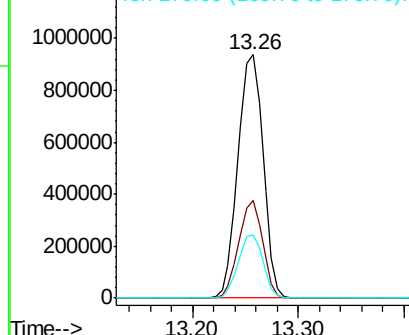
172 100

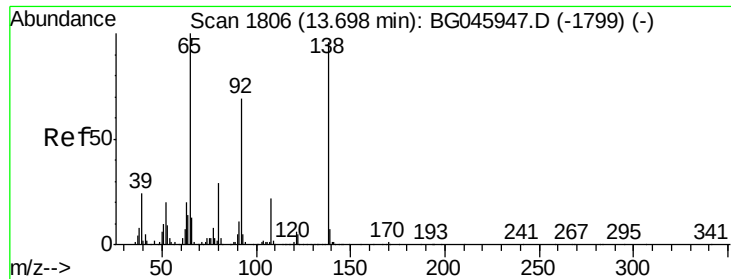
171 39.9 32.9 49.3

170 26.2 21.8 32.6



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

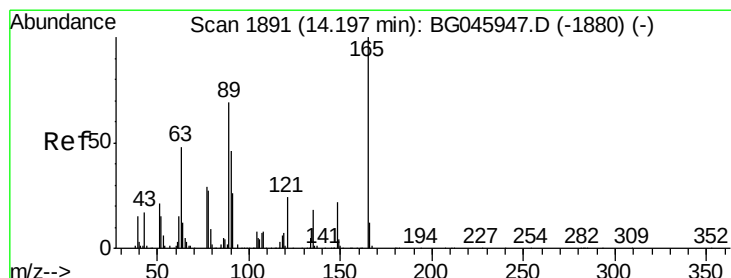
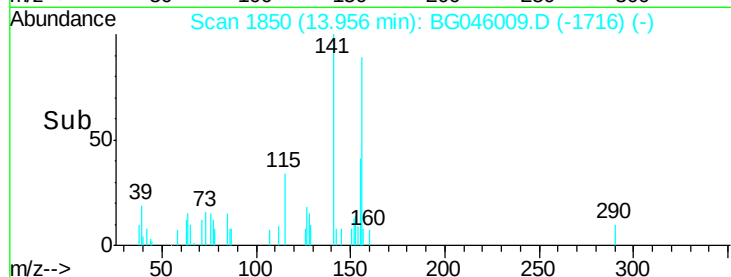
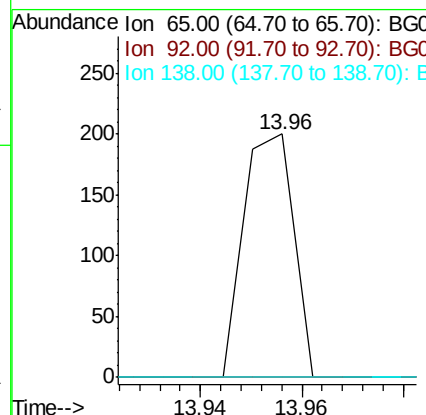
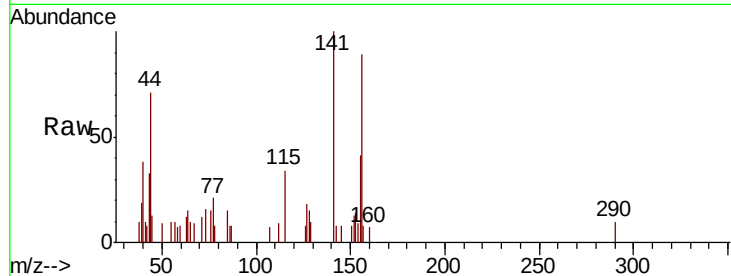




#48  
 2-Nitroaniline  
 Concen: 3.393 ng  
 RT: 13.96 min Scan# 1850  
 Delta R.T. 0.26 min  
 Lab File: BG046009.D  
 Acq: 10 Jul 2020 16:29

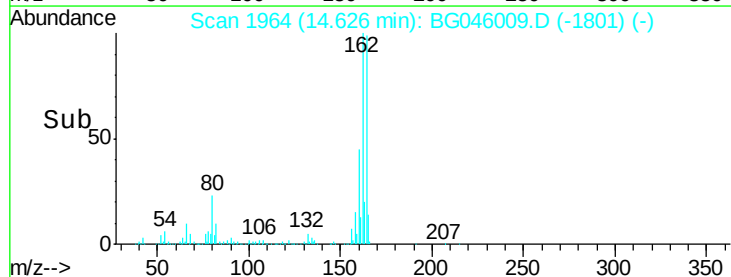
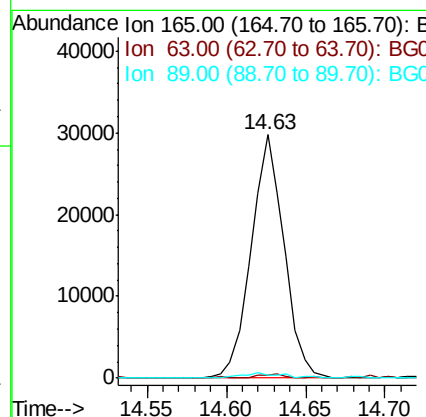
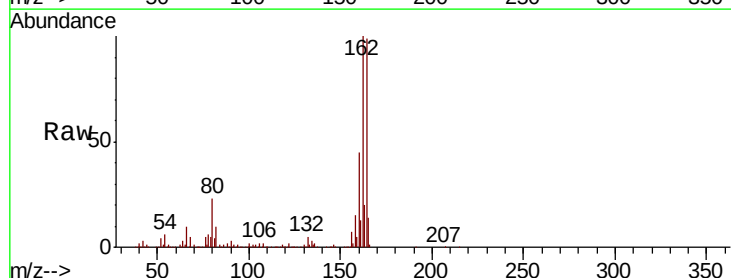
Instrument :  
 BNA\_G  
 ClientSampled :  
 RO-06

| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 65      | 100   |       |        |
| 92      | 0.0   | 55.4  | 83.0#  |
| 138     | 0.0   | 77.0  | 115.4# |

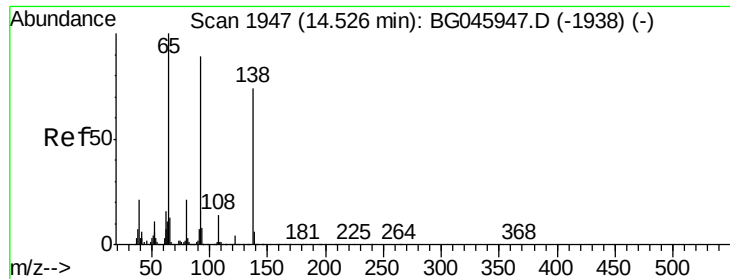


#51  
 2,6-Dinitrotoluene  
 Concen: 12.469 ng  
 RT: 14.63 min Scan# 1964  
 Delta R.T. 0.43 min  
 Lab File: BG046009.D  
 Acq: 10 Jul 2020 16:29

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.2   | 51.0  | 76.4# |
| 89      | 1.0   | 55.7  | 83.5# |







#53

3-Nitroaniline

Concen: 2.994 ng

RT: 14.59 min Scan# 1958

Delta R.T. 0.07 min

Lab File: BG046009.D

Acq: 10 Jul 2020 16:29

Instrument :

BNA\_G

ClientSampleId :

RO-06

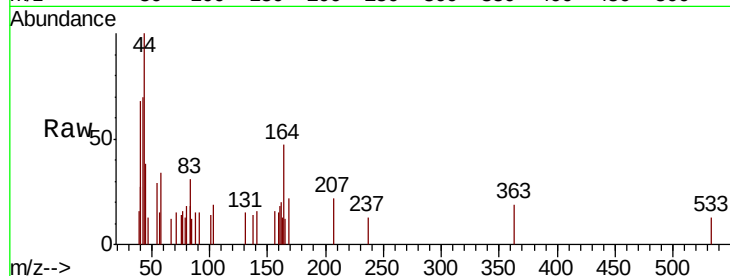
Tot Ion:138 Resp: 63

Ion Ratio Lower Upper

138 100

108 0.0 15.4 23.2#

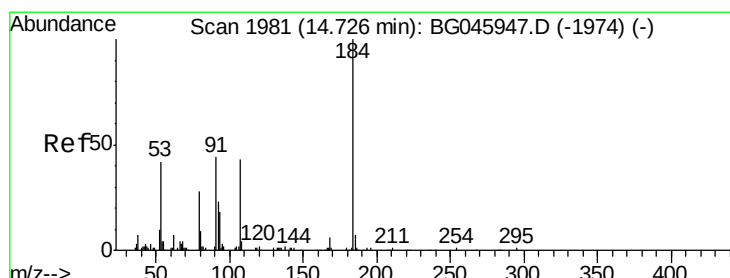
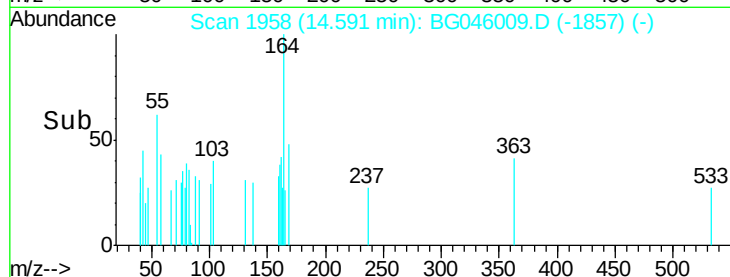
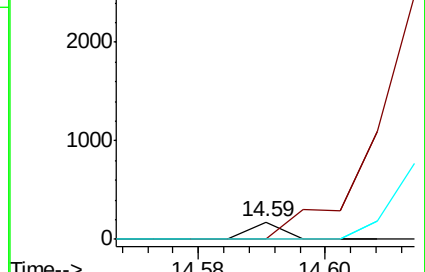
92 0.0 95.9 143.9#



Abundance Ion 138.00 (137.70 to 138.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 92.00 (91.70 to 92.70): BGC



#54

2,4-Dinitrophenol

Concen: 6.153 ng

RT: 14.71 min Scan# 1978

Delta R.T. -0.02 min

Lab File: BG046009.D

Acq: 10 Jul 2020 16:29

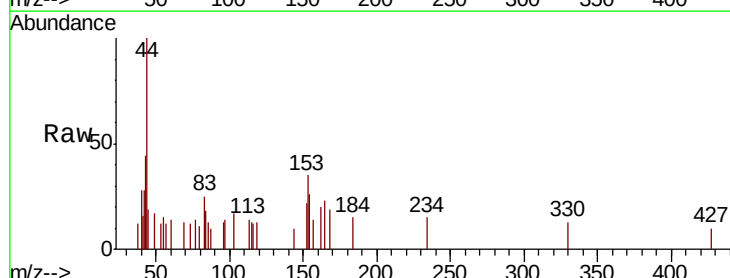
Tgt Ion:184 Resp: 75

Ion Ratio Lower Upper

184 100

63 0.0 46.0 69.0#

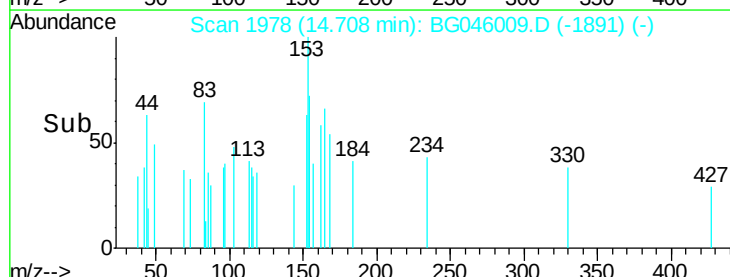
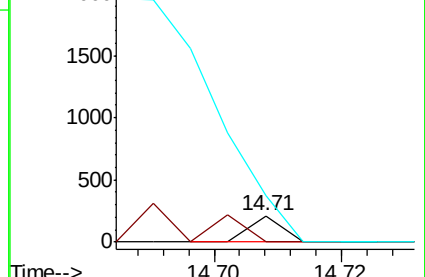
154 175.0 58.2 87.2#

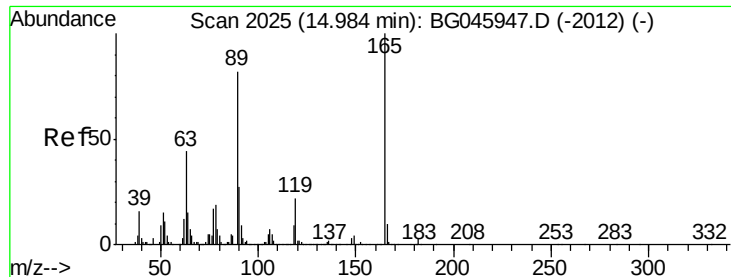


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 63.00 (62.70 to 63.70): BGC

Ion 154.00 (153.70 to 154.70): E

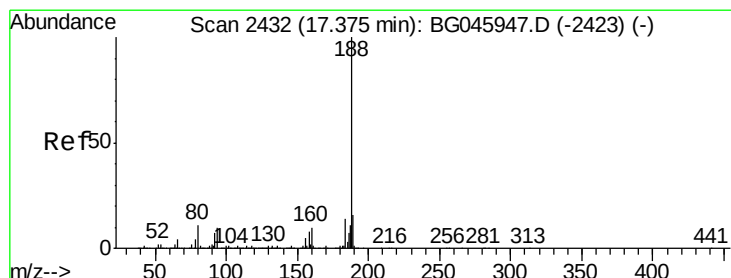
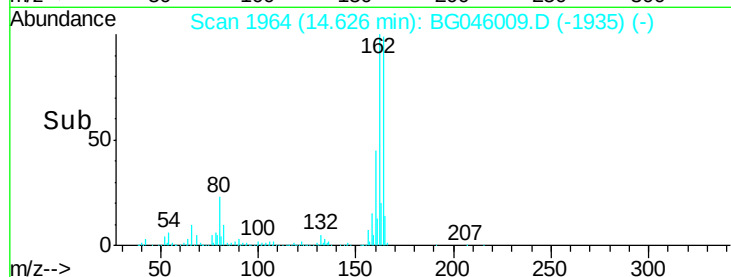
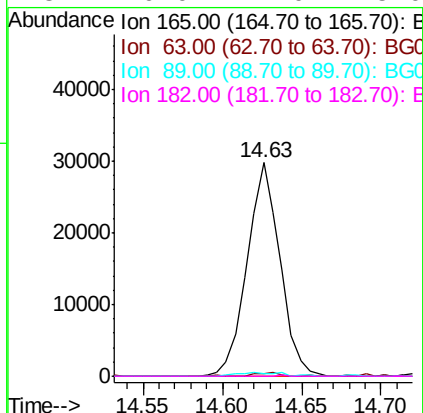
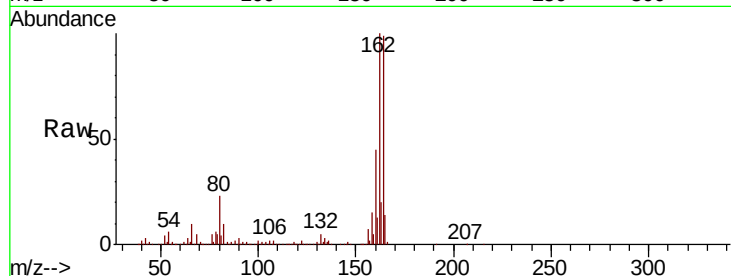




#57  
2,4-Dinitrotoluene  
Concen: 10.997 ng  
RT: 14.63 min Scan# 1964  
Delta R.T. -0.36 min  
Lab File: BG046009.D  
Acq: 10 Jul 2020 16:29

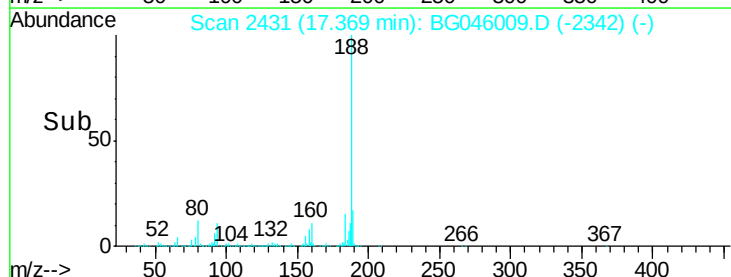
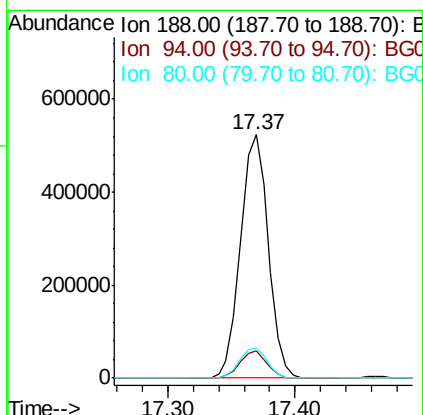
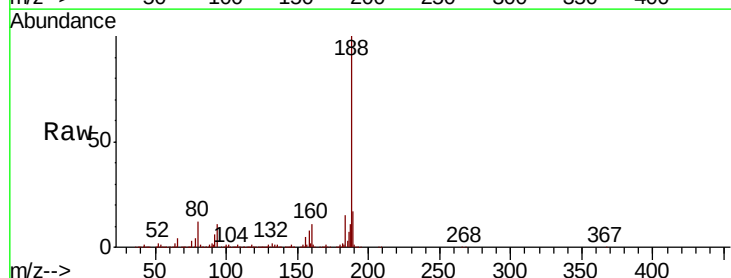
Instrument :  
BNA\_G  
ClientSampleId :  
RO-06

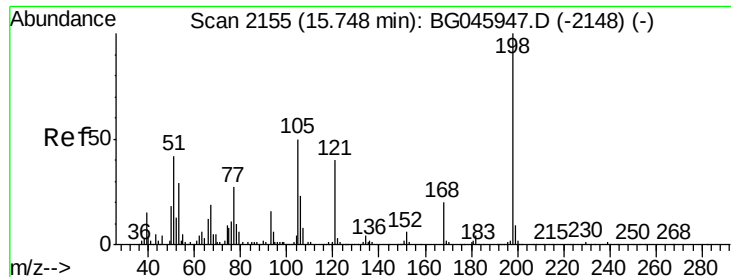
Tot Ion:165 Resp: 42763  
Ion Ratio Lower Upper  
165 100  
63 1.2 35.4 53.0#  
89 1.0 65.4 98.2#  
182 0.0 2.0 3.0#



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.37 min Scan# 2431  
Delta R.T. -0.01 min  
Lab File: BG046009.D  
Acq: 10 Jul 2020 16:29

Tgt Ion:188 Resp: 794082  
Ion Ratio Lower Upper  
188 100  
94 11.2 8.2 12.4  
80 12.3 9.0 13.6

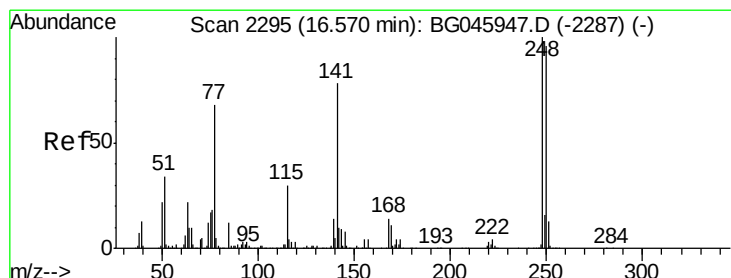
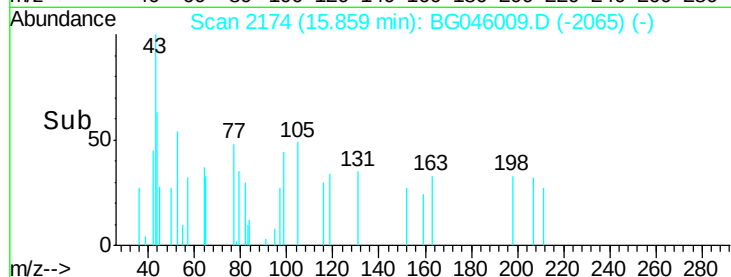
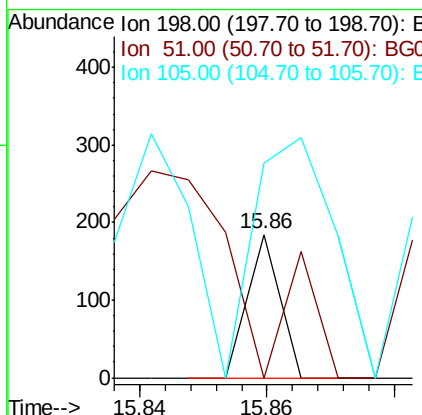
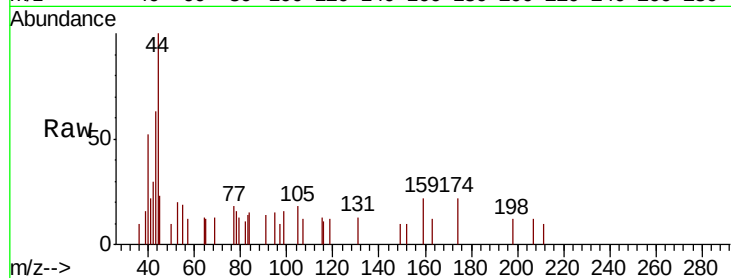




#65  
 4,6-Dinitro-2-methylphenol  
 Concen: 6.811 ng  
 RT: 15.86 min Scan# 2174  
 Delta R.T. 0.11 min  
 Lab File: BG046009.D  
 Acq: 10 Jul 2020 16:29

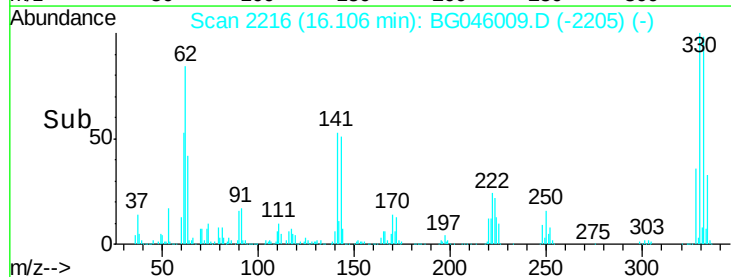
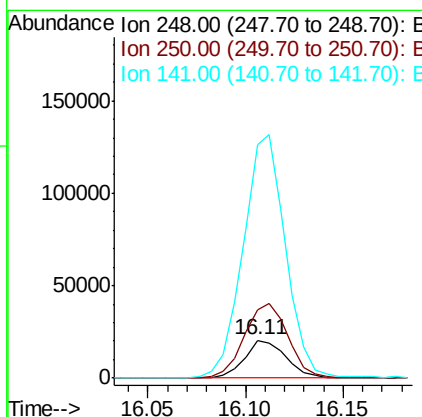
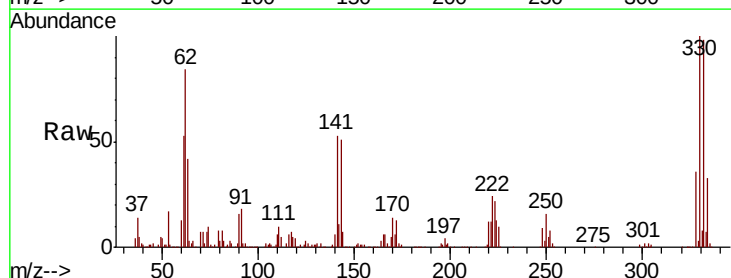
Instrument :  
 BNA\_G  
 ClientSampled :  
 RO-06

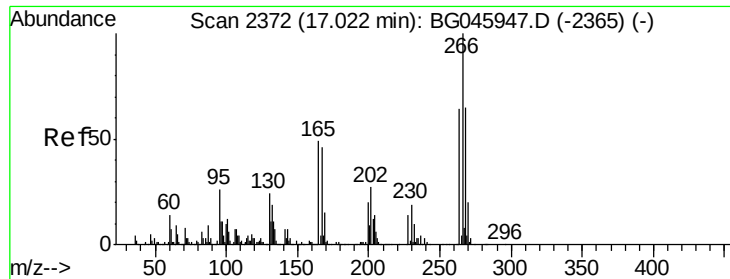
Tot Ion:198 Resp: 65  
 Ion Ratio Lower Upper  
 198 100  
 51 0.0 24.5 64.5#  
 105 149.2 30.9 70.9#



#67  
 4-Bromophenyl-phenylether  
 Concen: 3.357 ng  
 RT: 16.11 min Scan# 2216  
 Delta R.T. -0.46 min  
 Lab File: BG046009.D  
 Acq: 10 Jul 2020 16:29

Tgt Ion:248 Resp: 29773  
 Ion Ratio Lower Upper  
 248 100  
 250 179.1 76.6 114.8#  
 141 611.3 62.7 94.1#

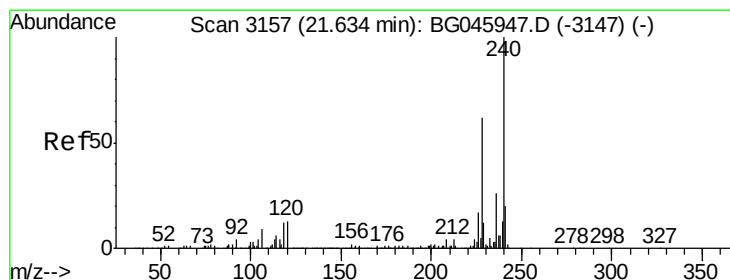
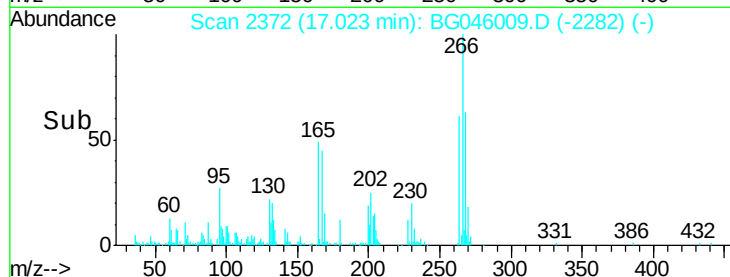
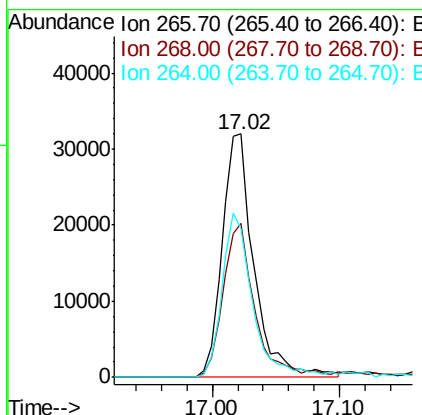
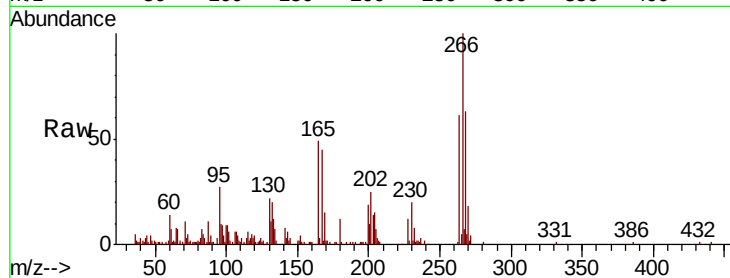




#70  
 Pentachlorophenol  
 Concen: 11.171 ng  
 RT: 17.02 min Scan# 2372  
 Delta R.T. 0.00 min  
 Lab File: BG046009.D  
 Acq: 10 Jul 2020 16:29

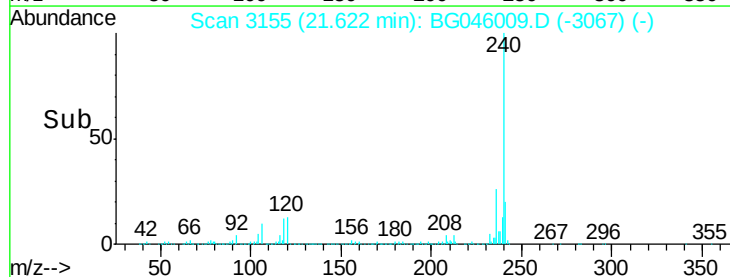
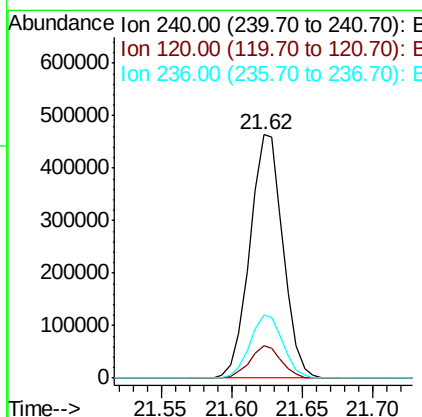
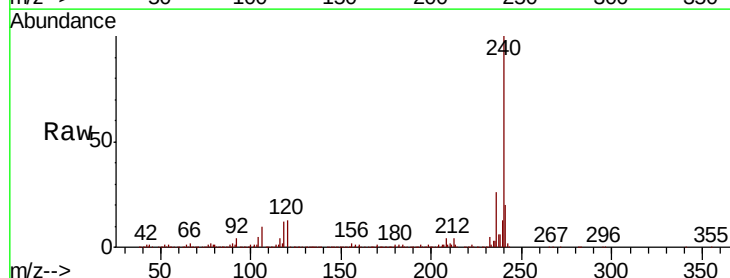
Instrument :  
 BNA\_G  
 ClientSampleId :  
 RO-06

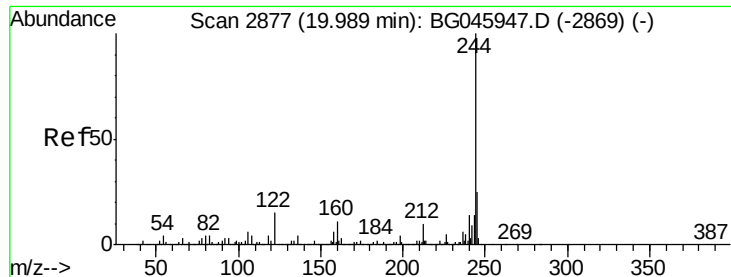
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 266     | 100   |       |       |
| 268     | 63.3  | 51.8  | 77.8  |
| 264     | 61.2  | 51.4  | 77.0  |



#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 21.62 min Scan# 3155  
 Delta R.T. -0.01 min  
 Lab File: BG046009.D  
 Acq: 10 Jul 2020 16:29

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 13.1  | 10.6  | 16.0  |
| 236     | 25.8  | 20.4  | 30.6  |





#79

Terphenyl-d14

Concen: 77.439 ng

RT: 19.98 min Scan# 2876

Delta R.T. -0.01 min

Lab File: BG046009.D

Acq: 10 Jul 2020 16:29

Instrument :

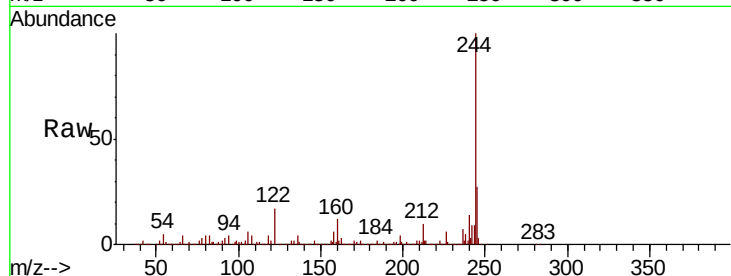
BNA\_G

ClientSampleID :

RO-06

Tot Ion:244 Resp: 2659449

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 10.5  | 8.3   | 12.5  |
| 122 | 16.8  | 12.1  | 18.1  |

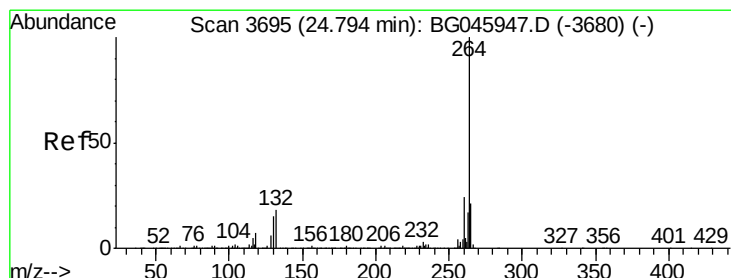
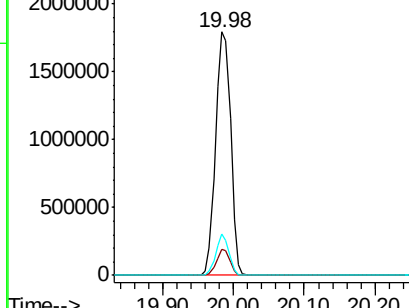
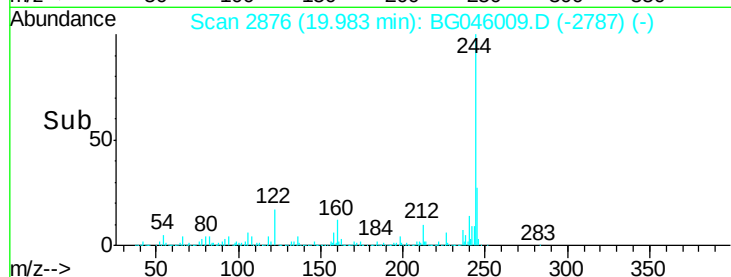


Abundance

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



#86

Perylene-d12

Concen: 20.000 ng

RT: 24.78 min Scan# 3693

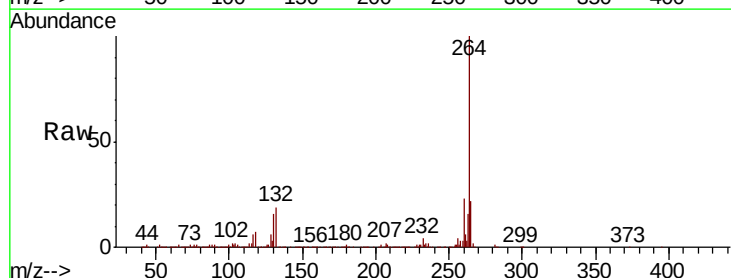
Delta R.T. -0.01 min

Lab File: BG046009.D

Acq: 10 Jul 2020 16:29

Tgt Ion:264 Resp: 746888

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 22.8  | 19.0  | 28.6  |
| 265 | 21.6  | 16.9  | 25.3  |



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

