

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG100219\  
 Data File : BG042985.D  
 Acq On : 2 Oct 2019 15:15  
 Operator : JU  
 Sample : PB123556BL  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 PB123556BL

Quant Time: Oct 03 04:26:25 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

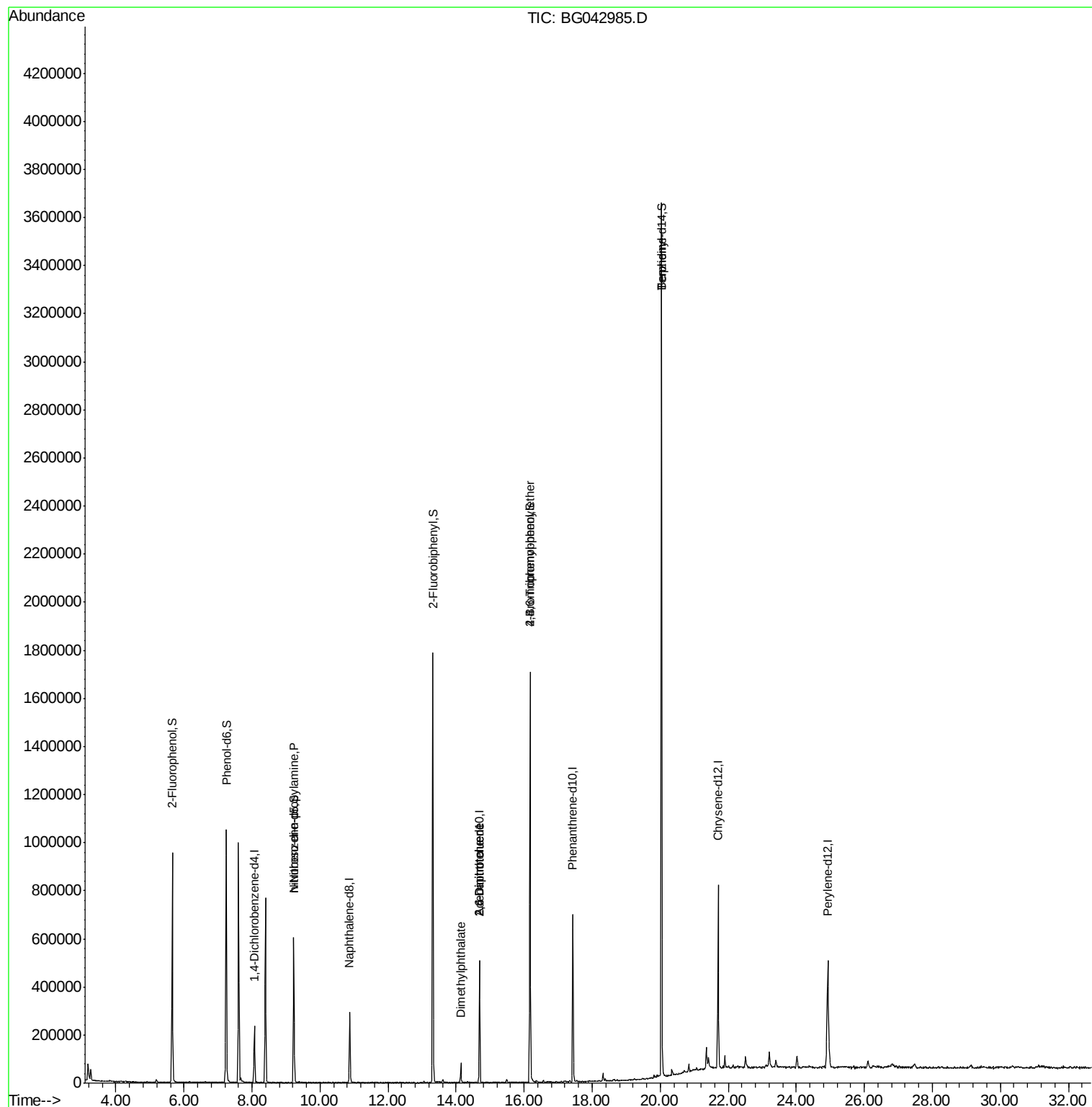
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min)    |
|--------------------------------|-------|------|----------|--------|-------|-------------|
| 1) 1,4-Dichlorobenzene-d4      | 8.07  | 152  | 64787    | 20.00  | ng    | 0.00        |
| 21) Naphthalene-d8             | 10.87 | 136  | 250959   | 20.00  | ng    | 0.00        |
| 39) Acenaphthene-d10           | 14.69 | 164  | 183662   | 20.00  | ng    | 0.00        |
| 64) Phenanthrene-d10           | 17.43 | 188  | 440319   | 20.00  | ng    | 0.00        |
| 76) Chrysene-d12               | 21.70 | 240  | 464503   | 20.00  | ng    | -0.01       |
| 87) Perylene-d12               | 24.93 | 264  | 525606   | 20.00  | ng    | -0.03       |
| System Monitoring Compounds    |       |      |          |        |       |             |
| 5) 2-Fluorophenol              | 5.65  | 112  | 404439   | 111.41 | ng    | 0.00        |
| 7) Phenol-d6                   | 7.24  | 99   | 592338   | 113.30 | ng    | 0.00        |
| 23) Nitrobenzene-d5            | 9.23  | 82   | 377969   | 73.20  | ng    | 0.00        |
| 42) 2,4,6-Tribromophenol       | 16.17 | 330  | 353767   | 112.02 | ng    | 0.00        |
| 45) 2-Fluorobiphenyl           | 13.32 | 172  | 971546   | 76.69  | ng    | 0.00        |
| 79) Terphenyl-d14              | 20.04 | 244  | 1794524  | 82.32  | ng    | 0.00        |
| Target Compounds               |       |      |          |        |       |             |
| 19) n-Nitroso-di-n-propylamine | 9.23  | 70   | 51639    | 15.043 | ng    | Qvalue # 77 |
| 50) Dimethylphthalate          | 14.14 | 163  | 56336    | 4.094  | ng    | 98          |
| 51) 2,6-Dinitrotoluene         | 14.69 | 165  | 25467    | 8.690  | ng    | # 22        |
| 57) 2,4-Dinitrotoluene         | 14.69 | 165  | 25467    | 5.934  | ng    | # 26        |
| 67) 4-Bromophenyl-phenylether  | 16.17 | 248  | 23693    | 4.287  | ng    | # 1         |
| 77) Benzidine                  | 20.04 | 184  | 29671    | 2.551  | ng    | 97          |

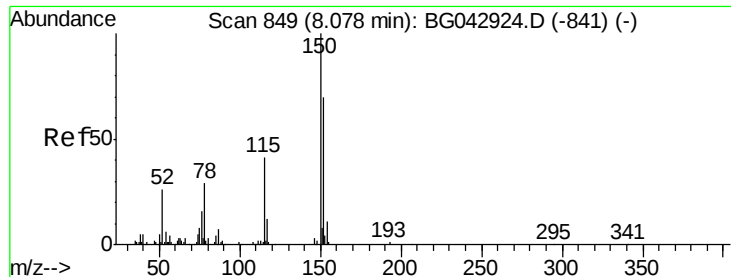
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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BNA\_G  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG092519.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
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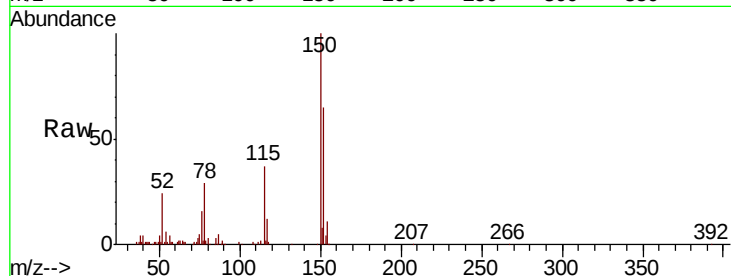


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.07 min Scan# 848  
Delta R.T. -0.01 min  
Lab File: BG042985.D  
Acq: 2 Oct 2019 15:15

Instrument :  
BNA\_G  
ClientSampleId :  
PB123556BL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 154.8 | 115.0 | 172.4 |
| 115     | 57.6  | 47.0  | 70.6  |

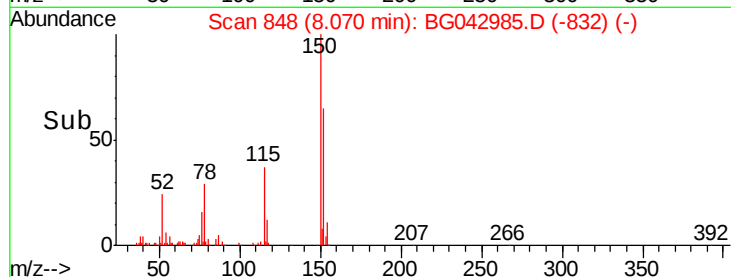
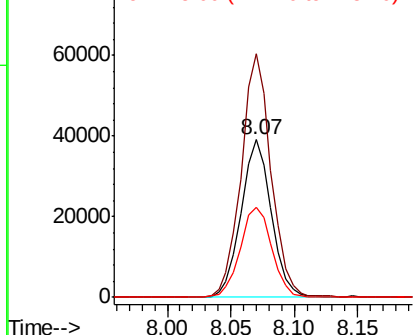


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

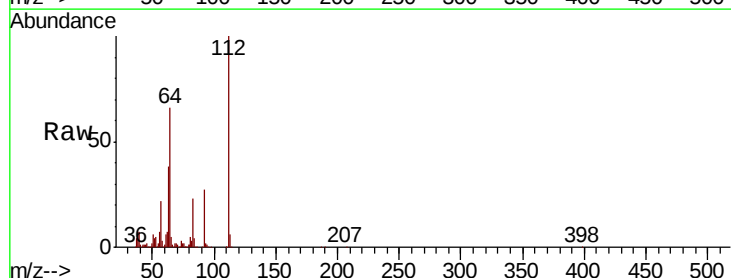
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 111.407 ng  
RT: 5.65 min Scan# 437  
Delta R.T. -0.00 min  
Lab File: BG042985.D  
Acq: 2 Oct 2019 15:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 66.4  | 56.6  | 84.8  |
| 63      | 37.5  | 35.1  | 52.7  |

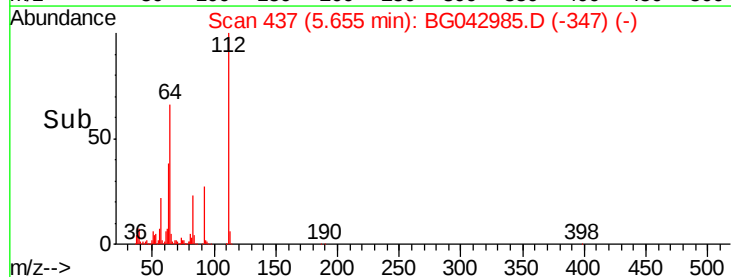
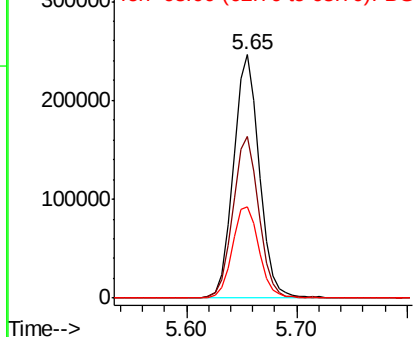


Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BG0

Ion 63.00 (62.70 to 63.70): BG0





#7

Phenol-d6

Concen: 113.305 ng

RT: 7.24 min Scan# 707

Delta R.T. -0.00 min

Lab File: BG042985.D

Acq: 2 Oct 2019 15:15

Instrument :

BNA\_G

ClientSampleId :

PB123556BL

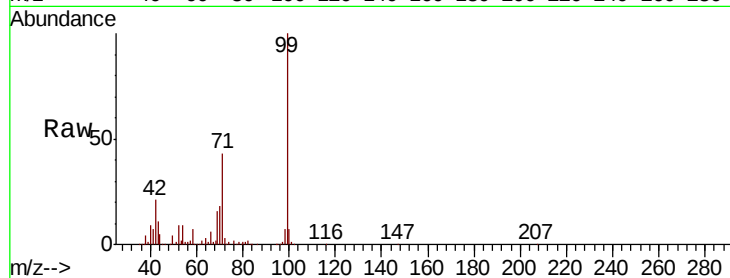
Tot Ion: 99 Resp: 592338

Ion Ratio Lower Upper

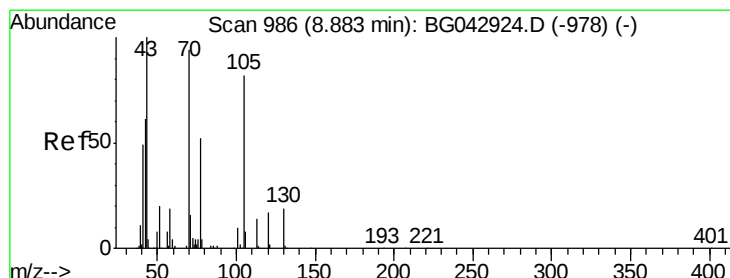
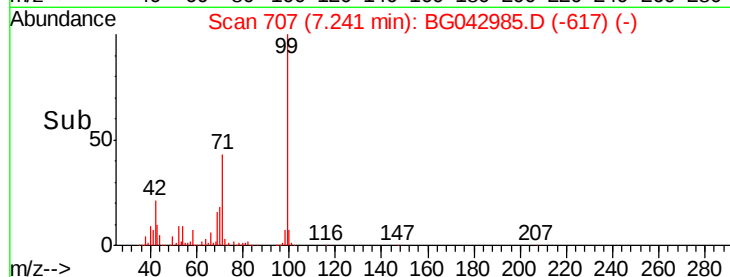
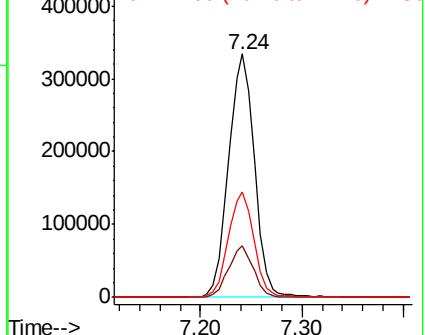
99 100

42 21.3 17.2 25.8

71 43.0 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



#19

n-Nitroso-di-n-propylamine

Concen: 15.043 ng

RT: 9.23 min Scan# 1045

Delta R.T. 0.34 min

Lab File: BG042985.D

Acq: 2 Oct 2019 15:15

Tgt Ion: 70 Resp: 51639

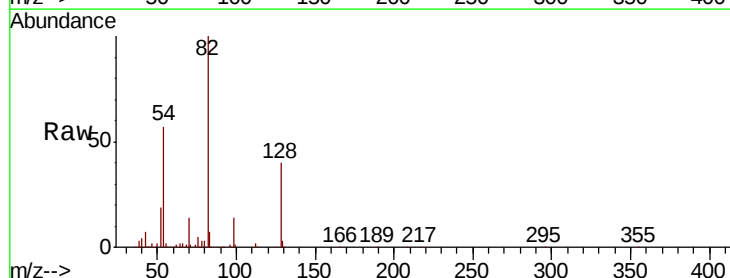
Ion Ratio Lower Upper

70 100

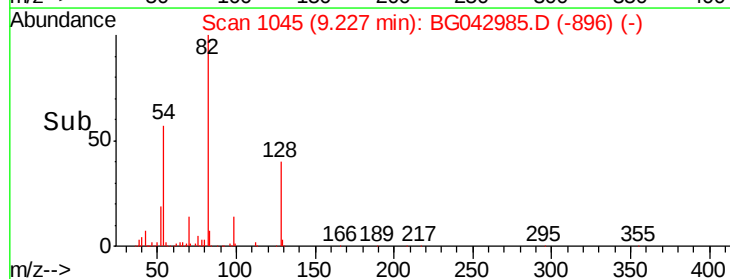
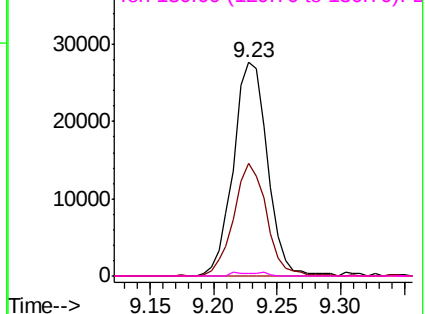
42 52.5 52.6 79.0#

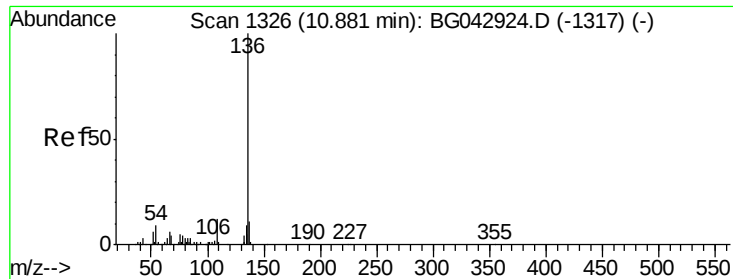
101 0.0 8.7 13.1#

130 1.2 15.8 23.8#



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

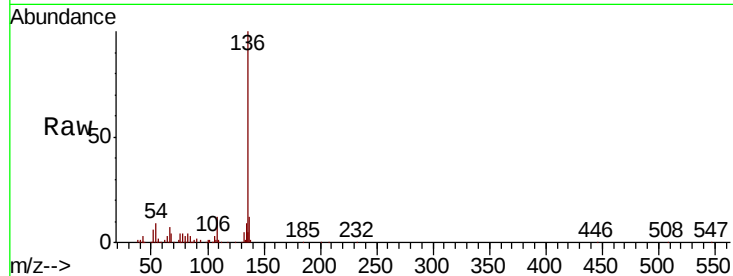




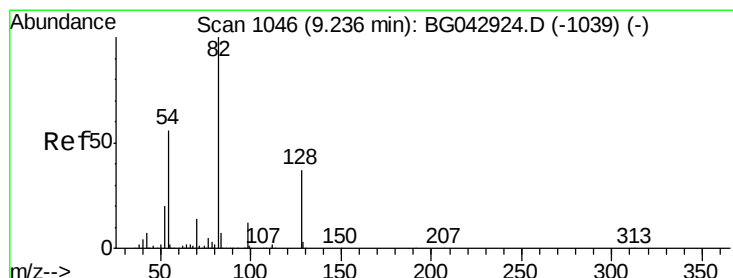
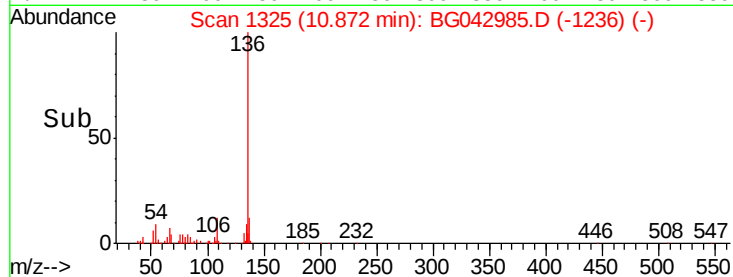
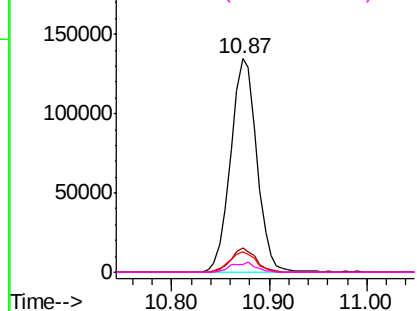
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.87 min Scan# 1325  
Delta R.T. -0.01 min  
Lab File: BG042985.D  
Acq: 2 Oct 2019 15:15

Instrument :  
BNA\_G  
ClientSampleId :  
PB123556BL

|             |       |        |
|-------------|-------|--------|
| Tot Ion:136 | Resp: | 250959 |
| Ion Ratio   | Lower | Upper  |
| 136 100     |       |        |
| 137 11.6    | 8.5   | 12.7   |
| 54 9.3      | 7.4   | 11.2   |
| 68 3.8      | 3.6   | 5.4    |

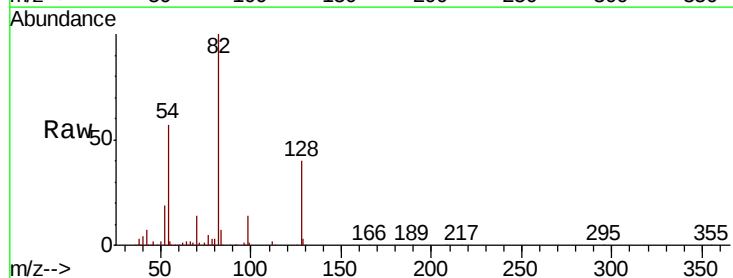


Abundance Ion 136.00 (135.70 to 136.70): BGC  
Ion 137.00 (136.70 to 137.70): BGC  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

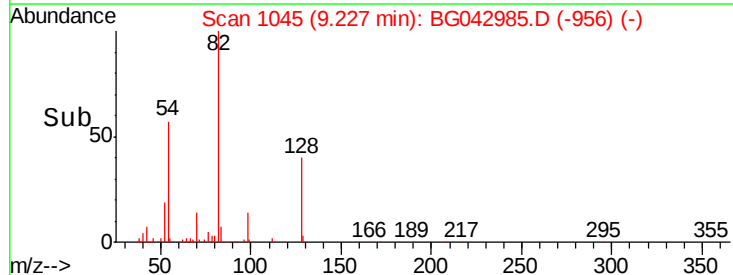
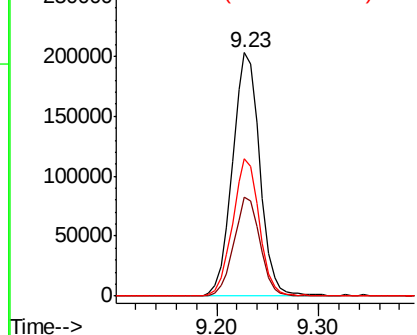


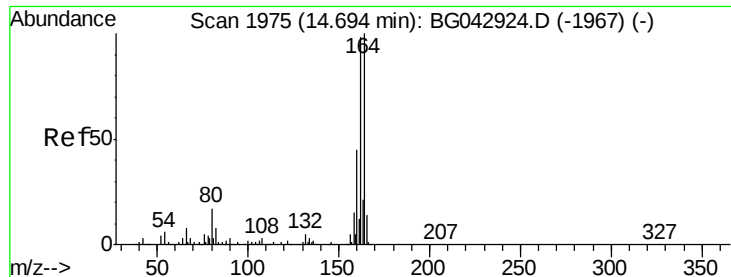
#23  
Nitrobenzene-d5  
Concen: 73.204 ng  
RT: 9.23 min Scan# 1045  
Delta R.T. -0.01 min  
Lab File: BG042985.D  
Acq: 2 Oct 2019 15:15

|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion: 82 | Resp: | 377969 |
| Ion | Ratio   | Lower | Upper  |
| 82  | 100     |       |        |
| 128 | 40.5    | 29.5  | 44.3   |
| 54  | 56.6    | 44.6  | 67.0   |



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





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.69 min Scan# 1974

Delta R.T. -0.01 min

Lab File: BG042985.D

Acq: 2 Oct 2019 15:15

Instrument :

BNA\_G

ClientSampleId :

PB123556BL

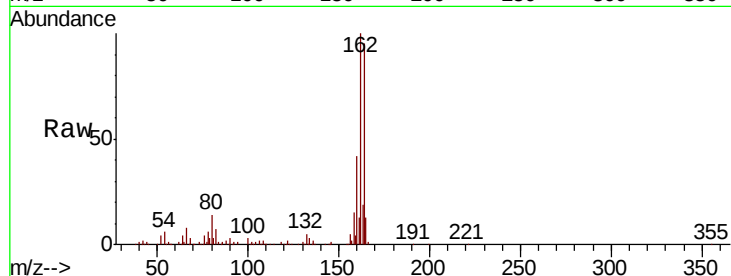
Tot Ion:164 Resp: 183662

Ion Ratio Lower Upper

164 100

162 105.6 78.5 117.7

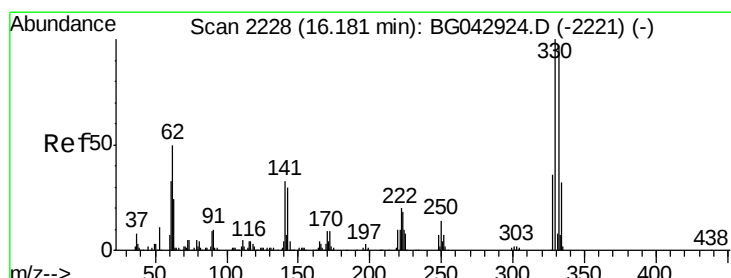
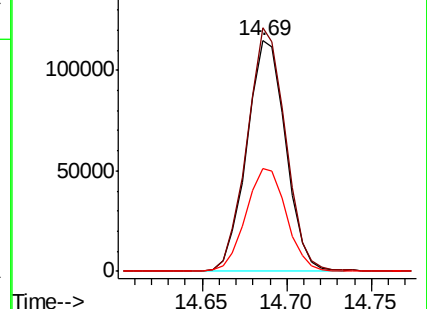
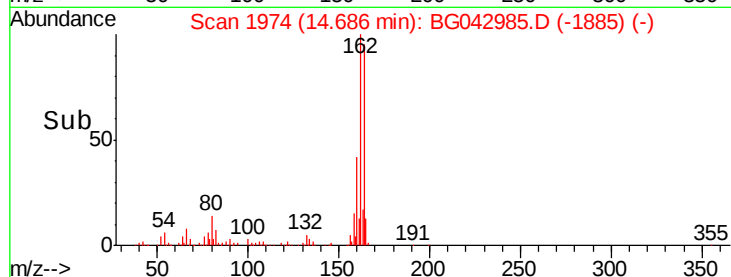
160 44.7 35.9 53.9



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: 112.016 ng

RT: 16.17 min Scan# 2227

Delta R.T. -0.01 min

Lab File: BG042985.D

Acq: 2 Oct 2019 15:15

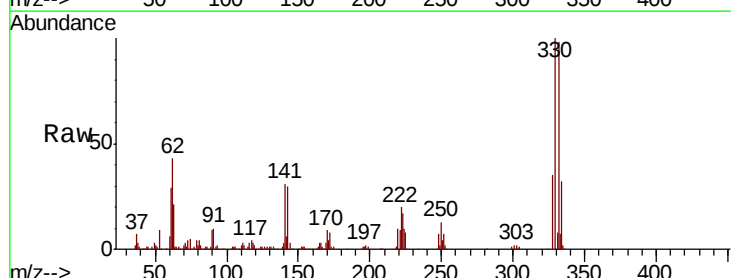
Tgt Ion:330 Resp: 353767

Ion Ratio Lower Upper

330 100

332 96.5 78.2 117.2

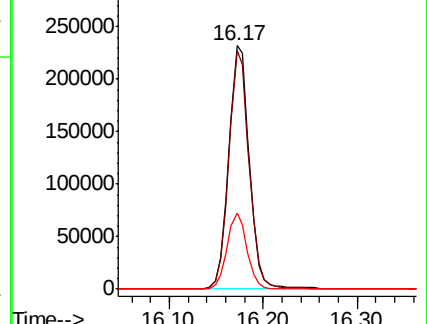
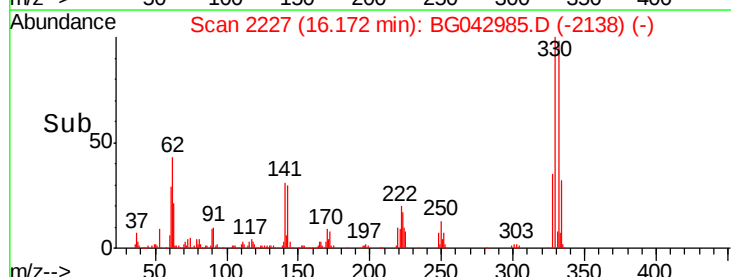
141 30.3 26.0 39.0

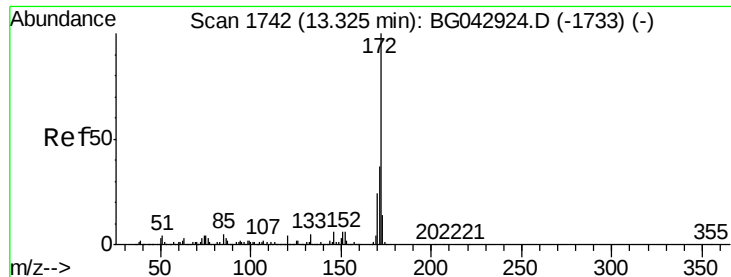


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

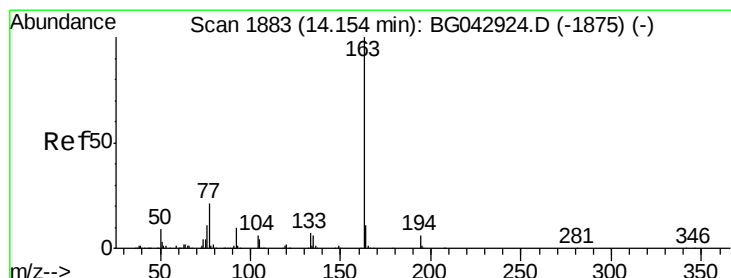
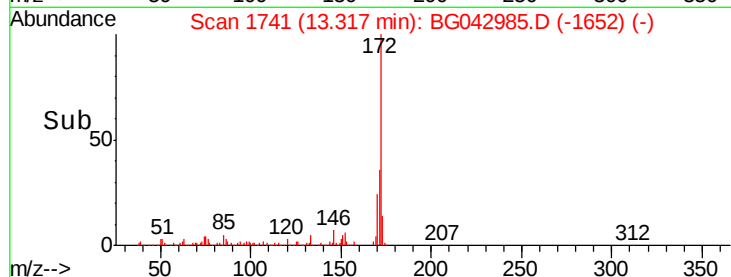
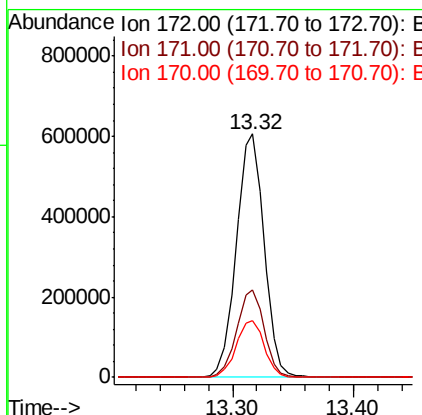
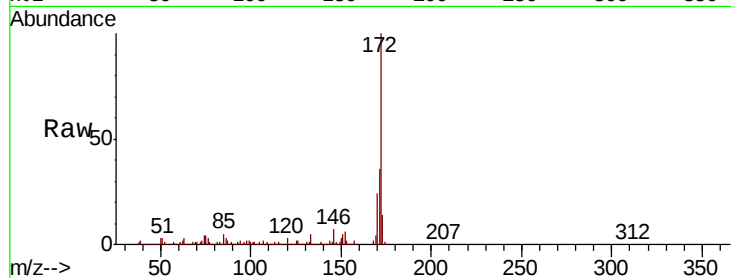




#45  
2-Fluorobiphenyl  
Concen: 76.687 ng  
RT: 13.32 min Scan# 1741  
Delta R.T. -0.01 min  
Lab File: BG042985.D  
Acq: 2 Oct 2019 15:15

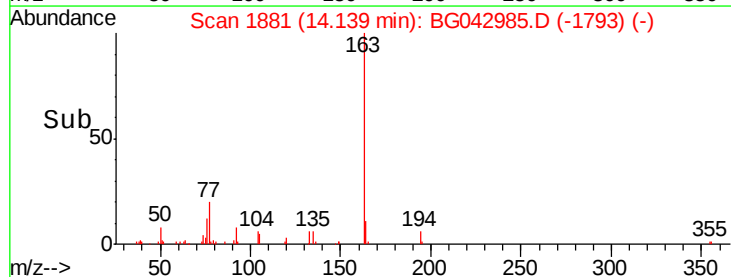
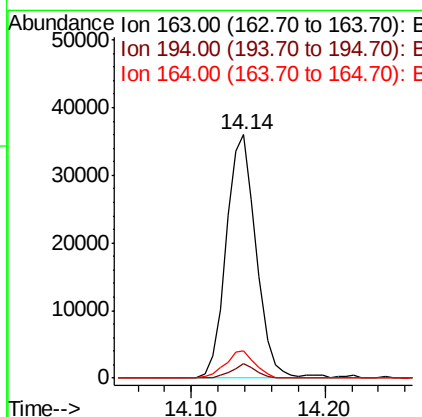
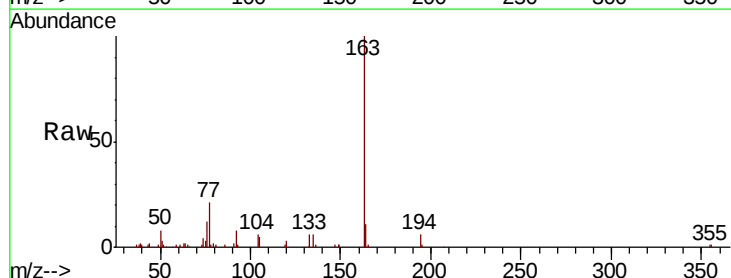
Instrument :  
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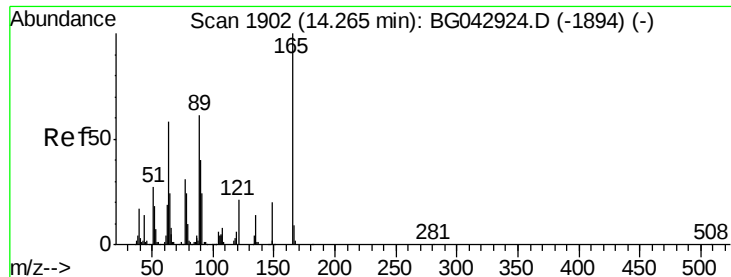
Tot Ion:172 Resp: 971546  
Ion Ratio Lower Upper  
172 100  
171 36.1 29.6 44.4  
170 23.5 19.6 29.4



#50  
Dimethylphthalate  
Concen: 4.094 ng  
RT: 14.14 min Scan# 1881  
Delta R.T. -0.01 min  
Lab File: BG042985.D  
Acq: 2 Oct 2019 15:15

Tgt Ion:163 Resp: 56336  
Ion Ratio Lower Upper  
163 100  
194 6.1 4.4 6.6  
164 11.3 8.6 12.8

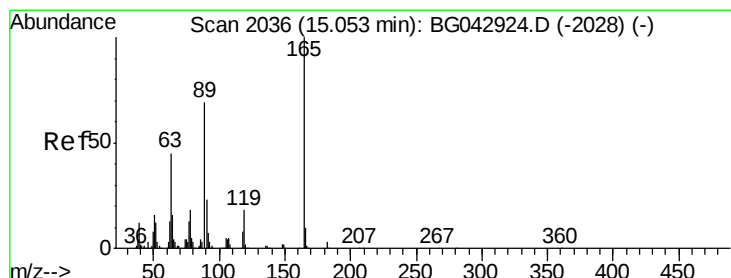
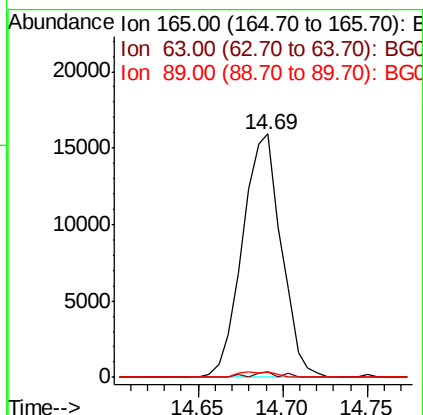
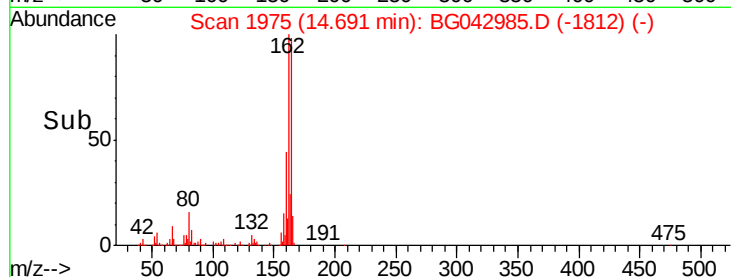
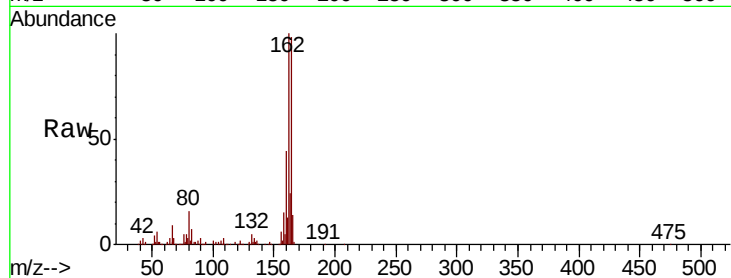




#51  
 2,6-Dinitrotoluene  
 Concen: 8.690 ng  
 RT: 14.69 min Scan# 1975  
 Delta R.T. 0.43 min  
 Lab File: BG042985.D  
 Acq: 2 Oct 2019 15:15

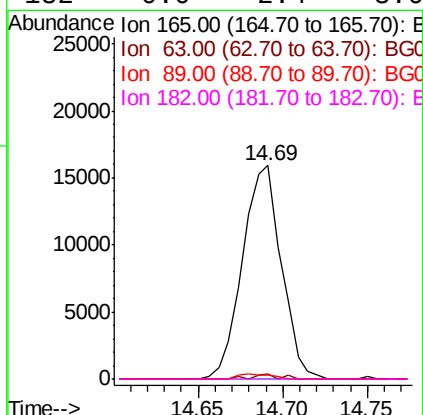
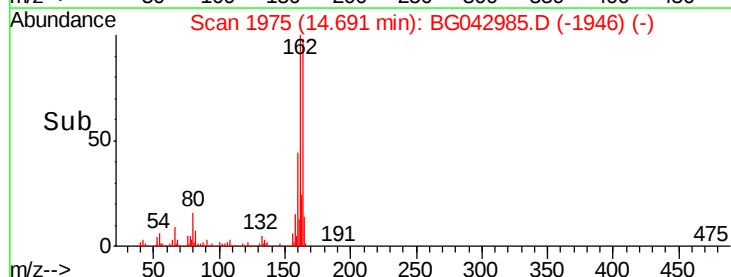
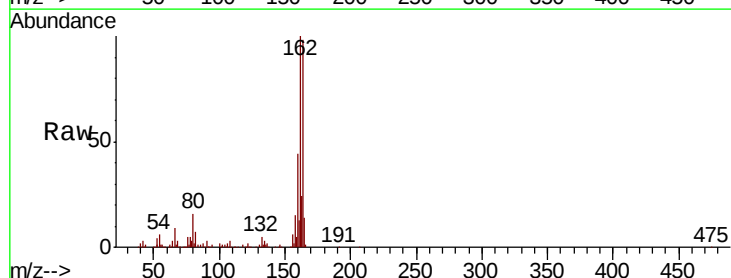
Instrument :  
 BNA\_G  
 ClientSampleId :  
 PB123556BL

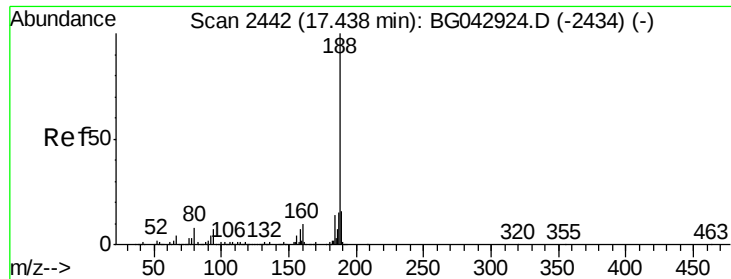
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 2.4   | 50.3  | 75.5# |
| 89      | 2.0   | 48.9  | 73.3# |



#57  
 2,4-Dinitrotoluene  
 Concen: 5.934 ng  
 RT: 14.69 min Scan# 1975  
 Delta R.T. -0.36 min  
 Lab File: BG042985.D  
 Acq: 2 Oct 2019 15:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 2.4   | 36.5  | 54.7# |
| 89      | 2.0   | 55.5  | 83.3# |
| 182     | 0.0   | 2.4   | 3.6#  |





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.43 min Scan# 2441

Delta R.T. -0.01 min

Lab File: BG042985.D

Acq: 2 Oct 2019 15:15

Instrument :

BNA\_G

ClientSampleId :

PB123556BL

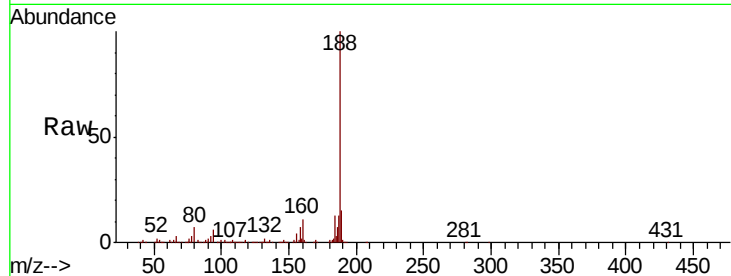
Tot Ion:188 Resp: 440319

Ion Ratio Lower Upper

188 100

94 5.9 5.7 8.5

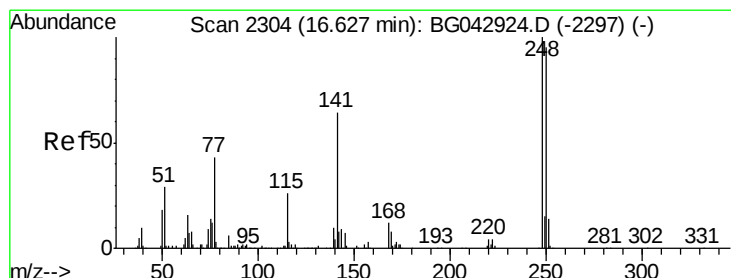
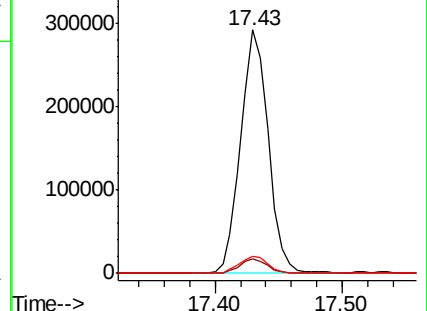
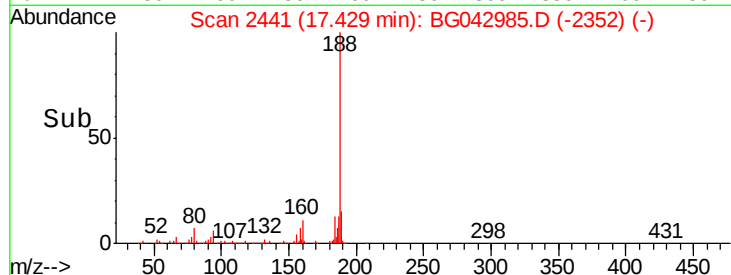
80 6.9 6.5 9.7



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BG

Ion 80.00 (79.70 to 80.70): BG



#67

4-Bromophenyl-phenylether

Concen: 4.287 ng

RT: 16.17 min Scan# 2227

Delta R.T. -0.46 min

Lab File: BG042985.D

Acq: 2 Oct 2019 15:15

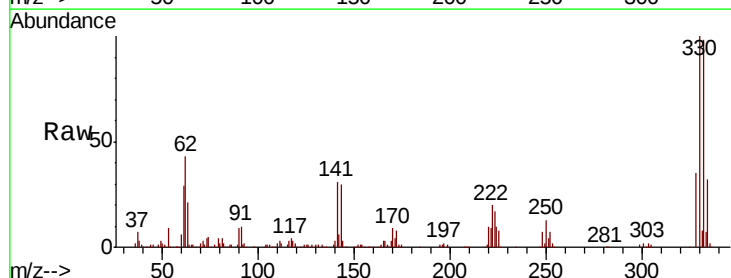
Tgt Ion:248 Resp: 23693

Ion Ratio Lower Upper

248 100

250 190.8 75.8 113.8#

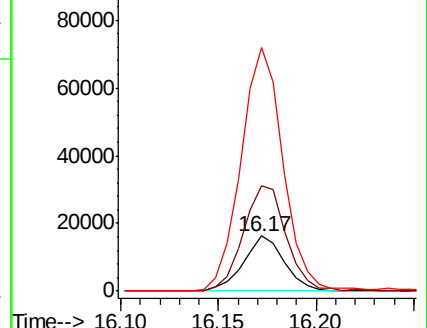
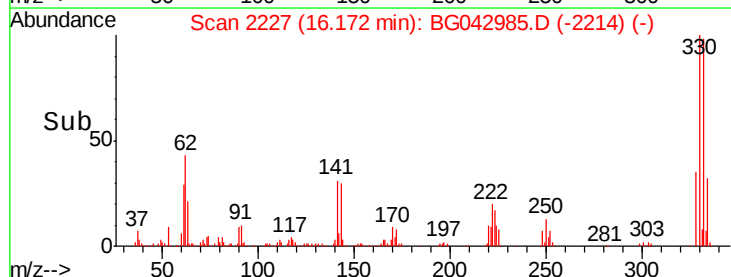
141 441.5 51.1 76.7#

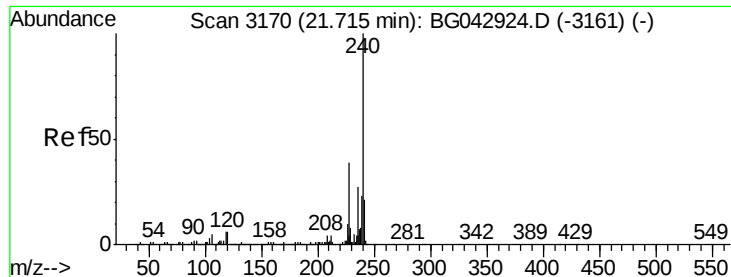


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E

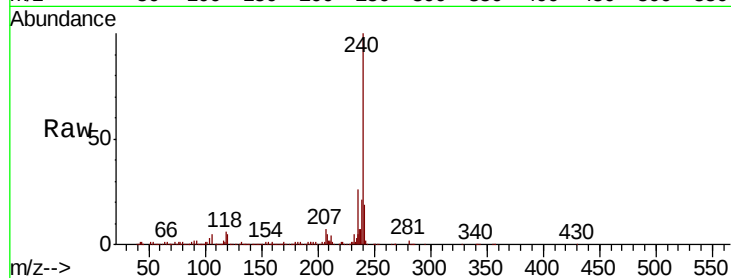




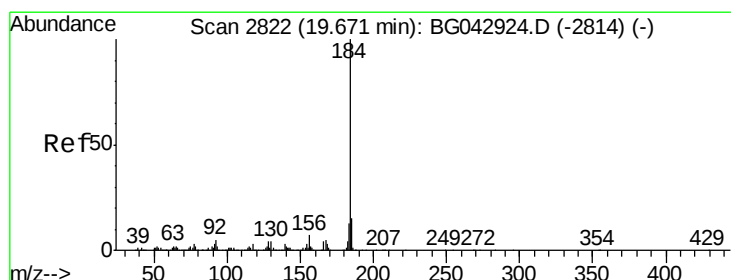
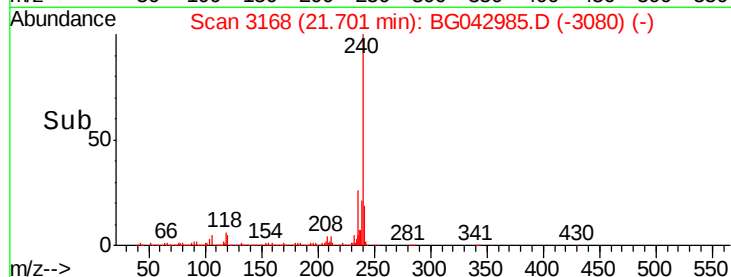
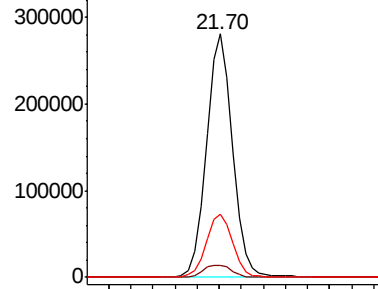
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.70 min Scan# 3168  
Delta R.T. -0.01 min  
Lab File: BG042985.D  
Acq: 2 Oct 2019 15:15

Instrument :  
BNA\_G  
ClientSampleId :  
PB123556BL

Tot Ion:240 Resp: 464503  
Ion Ratio Lower Upper  
240 100  
120 5.2 4.8 7.2  
236 26.1 21.4 32.0

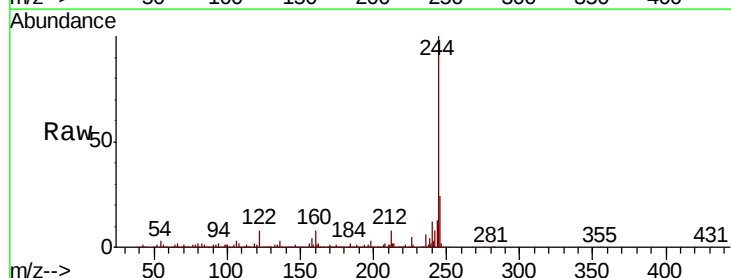


Abundance Ion 240.00 (239.70 to 240.70): E  
Ion 120.00 (119.70 to 120.70): E  
Ion 236.00 (235.70 to 236.70): E

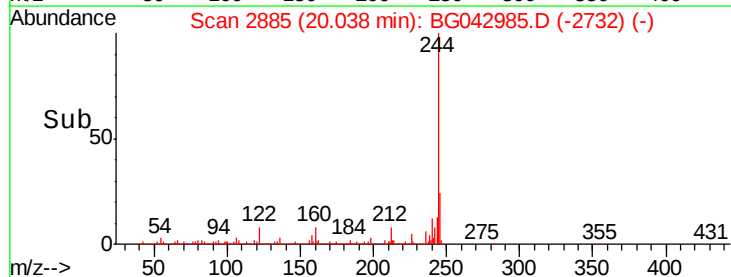
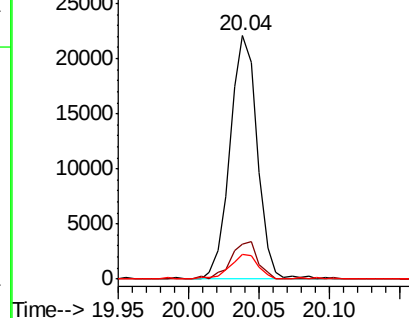


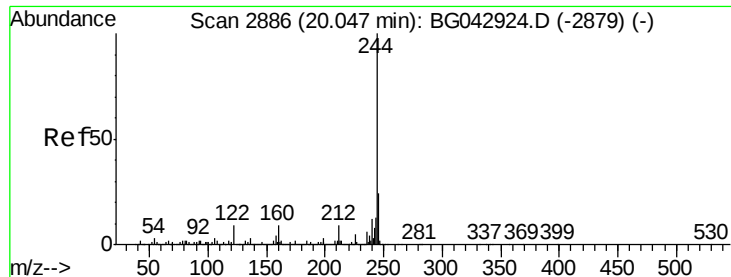
#77  
Benzidine  
Concen: 2.551 ng  
RT: 20.04 min Scan# 2885  
Delta R.T. 0.37 min  
Lab File: BG042985.D  
Acq: 2 Oct 2019 15:15

Tgt Ion:184 Resp: 29671  
Ion Ratio Lower Upper  
184 100  
185 14.1 11.8 17.8  
183 10.4 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: 82.323 ng

RT: 20.04 min Scan# 2885

Delta R.T. -0.01 min

Lab File: BG042985.D

Acq: 2 Oct 2019 15:15

Instrument :

BNA\_G

ClientSampleId :

PB123556BL

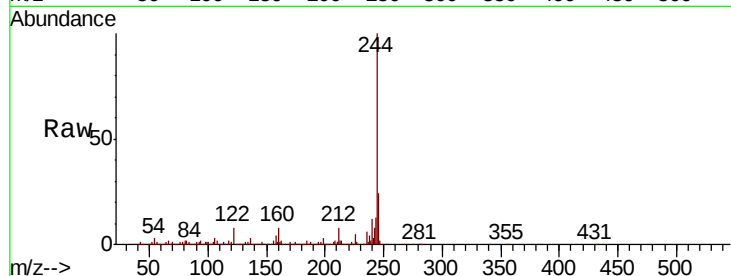
Tot Ion:244 Resp: 1794524

Ion Ratio Lower Upper

244 100

212 8.4 7.4 11.0

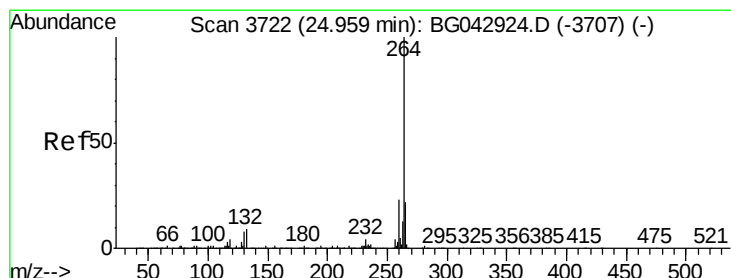
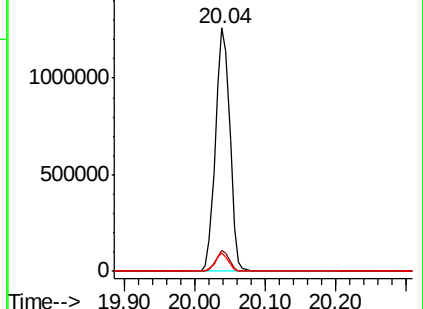
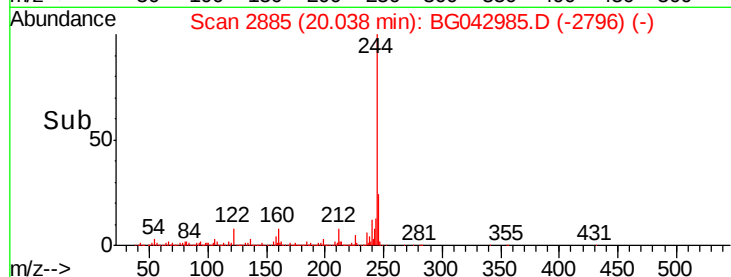
122 7.7 7.0 10.4



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: 24.93 min Scan# 3717

Delta R.T. -0.03 min

Lab File: BG042985.D

Acq: 2 Oct 2019 15:15

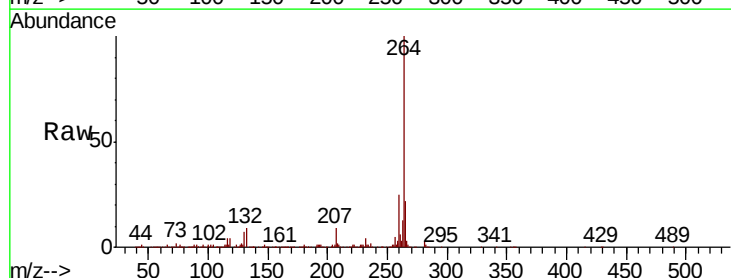
Tgt Ion:264 Resp: 525606

Ion Ratio Lower Upper

264 100

260 24.6 18.7 28.1

265 21.6 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

