

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA G\DATA\BG040218\  
 Data File : BG033505.D  
 Acq On : 3 Apr 2018 2:16  
 Operator : SJ/JU  
 Sample : J2114-16  
 Misc :  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Apr 03 04:05:21 2018  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG031918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Mar 28 18:34:58 2018  
 Response via : Initial Calibration

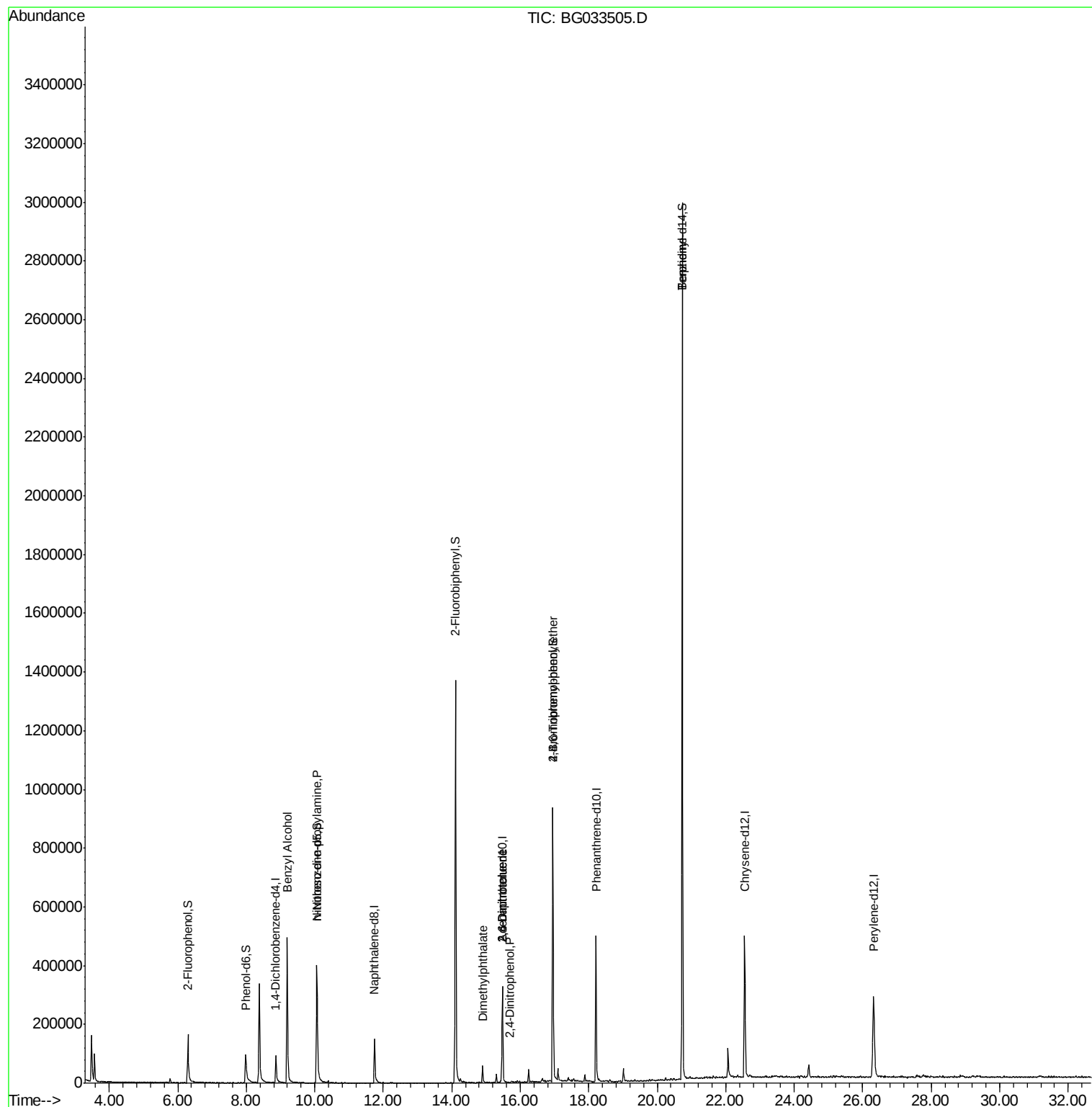
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.86  | 152  | 34027    | 20.00  | ng    | -0.02    |
| 21) Naphthalene-d8             | 11.74 | 136  | 148774   | 20.00  | ng    | -0.02    |
| 38) Acenaphthene-d10           | 15.48 | 164  | 127136   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 18.21 | 188  | 354970   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 22.55 | 240  | 357903   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 26.31 | 264  | 370250   | 20.00  | ng    | -0.02    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 6.30  | 112  | 91623    | 50.49  | ng    | 0.00     |
| 7) Phenol-d6                   | 7.98  | 99   | 83330    | 26.73  | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 10.06 | 82   | 316787   | 97.83  | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol       | 16.95 | 330  | 186108   | 97.88  | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 14.10 | 172  | 805277   | 91.44  | ng    | 0.00     |
| 78) Terphenyl-d14              | 20.73 | 244  | 1525488  | 91.15  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 15) Benzyl Alcohol             | 9.19  | 79   | 5303     | 2.160  | ng    | # 31     |
| 19) n-Nitroso-di-n-propylamine | 10.06 | 70   | 41678    | 18.242 | ng    | # 75     |
| 49) Dimethylphthalate          | 14.90 | 163  | 38406    | 3.471  | ng    | # 99     |
| 50) 2,6-Dinitrotoluene         | 15.48 | 165  | 16561    | 7.320  | ng    | # 20     |
| 53) 2,4-Dinitrophenol          | 15.69 | 184  | 66       | 7.694  | ng    | # 1      |
| 56) 2,4-Dinitrotoluene         | 15.48 | 165  | 16560    | 4.971  | ng    | # 18     |
| 66) 4-Bromophenyl-phenylether  | 16.95 | 248  | 15561    | 3.733  | ng    | # 1      |
| 76) Benzidine                  | 20.73 | 184  | 26832    | 2.765  | ng    | # 94     |

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

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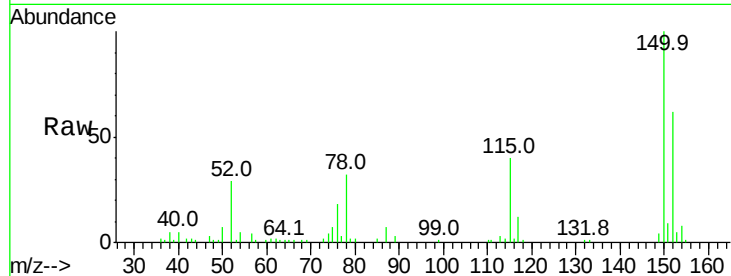


#1

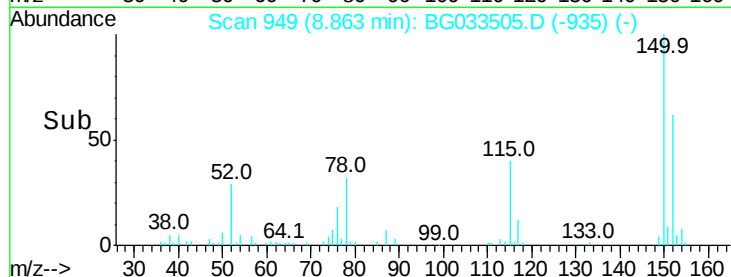
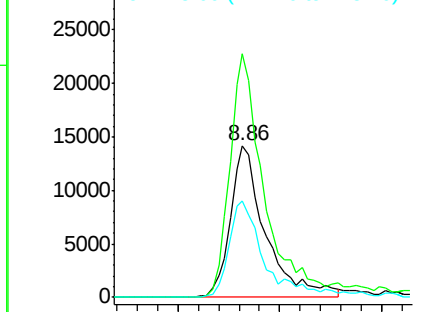
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.86 min Scan# 949  
Delta R.T. -0.02 min  
Lab File: BG033505.D  
Acq: 3 Apr 2018 2:16

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:152 Resp: 34027  
Ion Ratio Lower Upper  
152 100  
150 160.5 126.6 189.8  
115 63.6 53.0 79.4



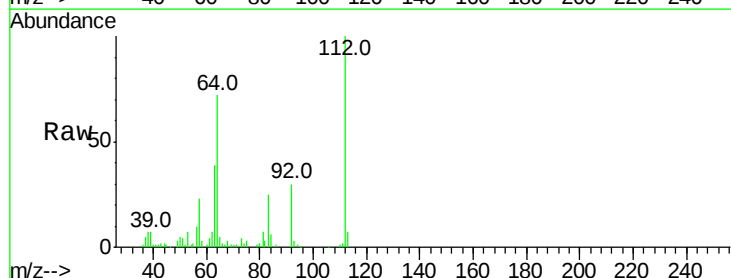
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



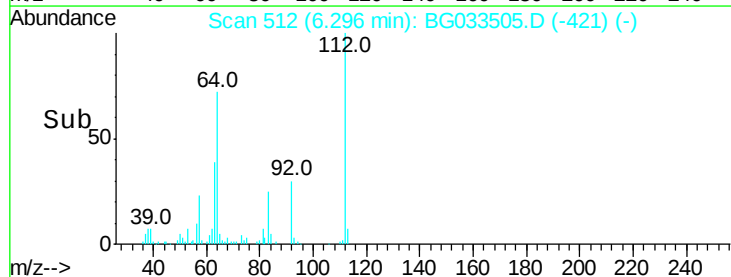
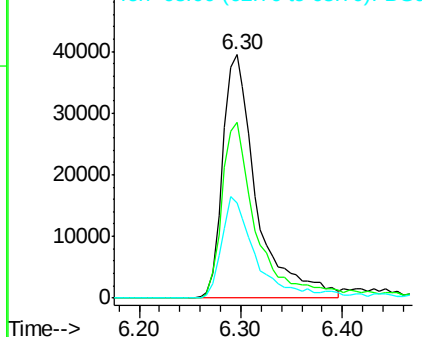
#5

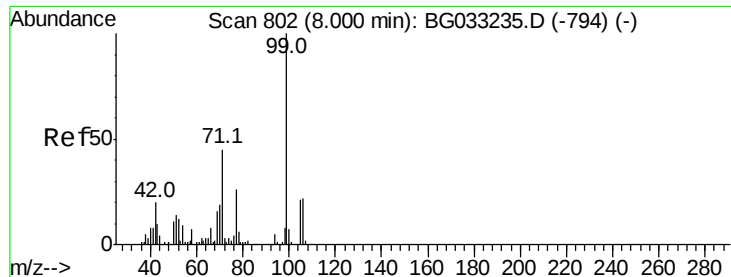
2-Fluorophenol  
Concen: 50.491 ng  
RT: 6.30 min Scan# 512  
Delta R.T. 0.00 min  
Lab File: BG033505.D  
Acq: 3 Apr 2018 2:16

Tgt Ion:112 Resp: 91623  
Ion Ratio Lower Upper  
112 100  
64 72.3 56.3 84.5  
63 39.0 30.1 45.1



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: 26.726 ng

RT: 7.98 min Scan# 799

Delta R.T. 0.00 min

Lab File: BG033505.D

Acq: 3 Apr 2018 2:16

Instrument :

BNA\_G

ClientSampleId :

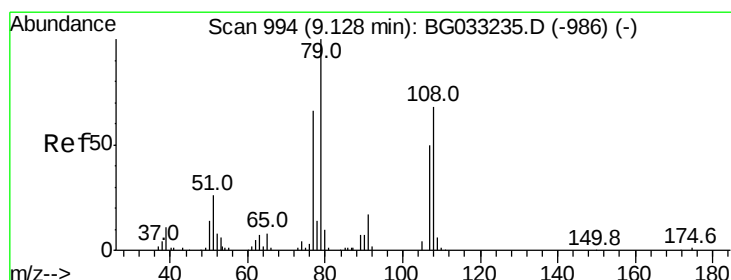
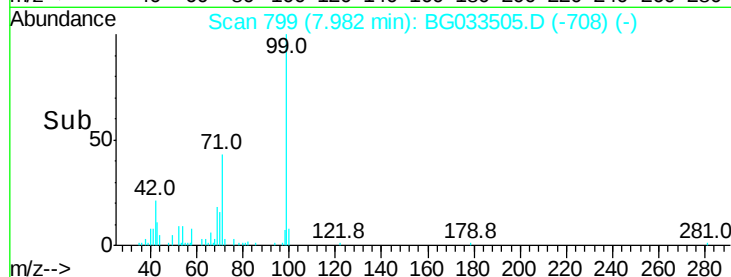
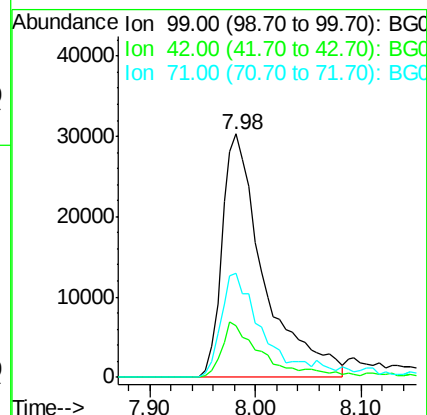
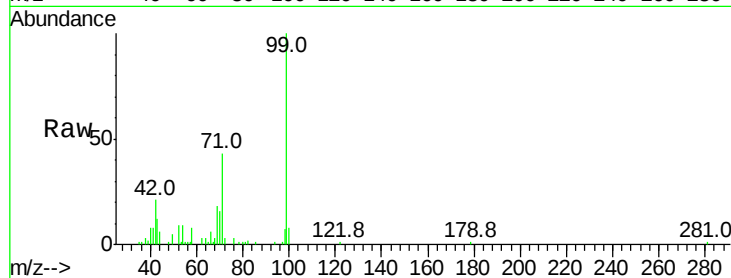
Tot Ion: 99 Resp: 83330

Ion Ratio Lower Upper

99 100

42 21.1 14.1 21.1

71 42.6 26.1 39.1#



#15

Benzyl Alcohol

Concen: 2.160 ng

RT: 9.19 min Scan# 1005

Delta R.T. 0.08 min

Lab File: BG033505.D

Acq: 3 Apr 2018 2:16

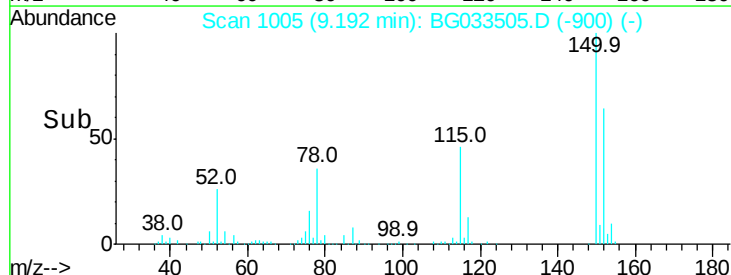
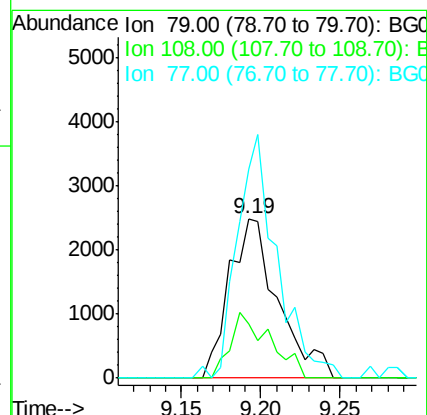
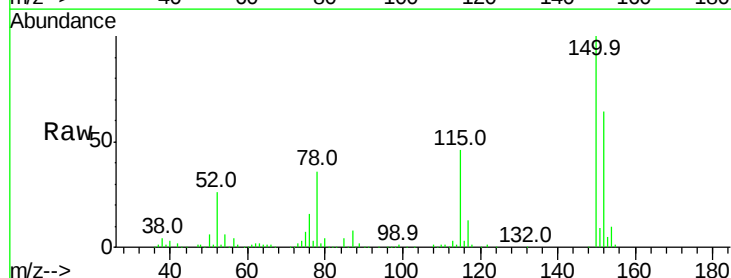
Tgt Ion: 79 Resp: 5303

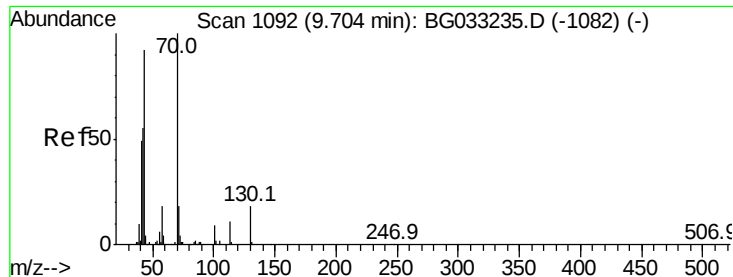
Ion Ratio Lower Upper

79 100

108 34.3 57.2 85.8#

77 131.5 46.1 69.1#

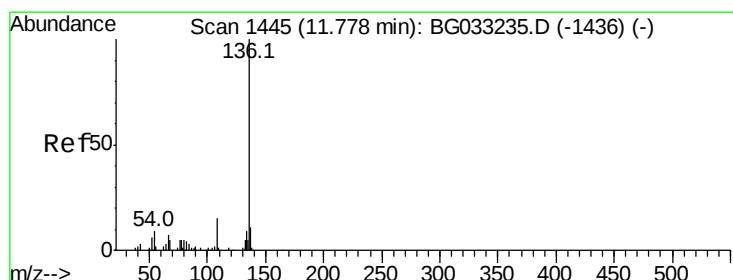
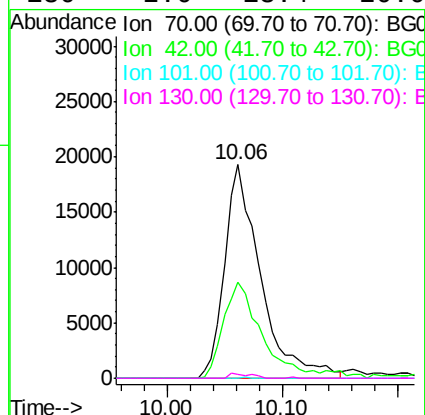
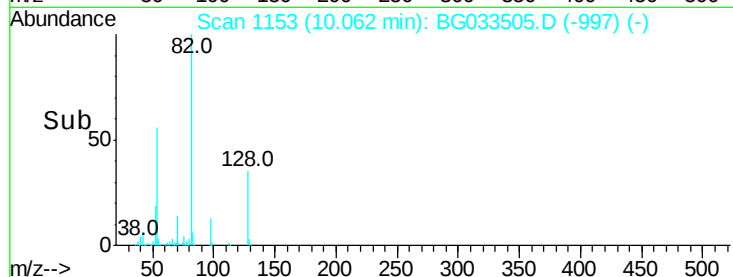
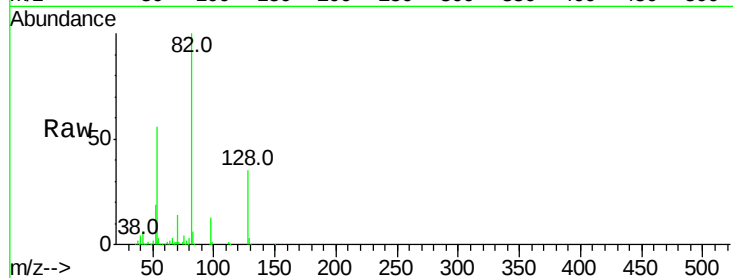




#19  
n-Nitroso-di-n-propylamine  
Concen: 18.242 ng  
RT: 10.06 min Scan# 1153  
Delta R.T. 0.38 min  
Lab File: BG033505.D  
Acq: 3 Apr 2018 2:16

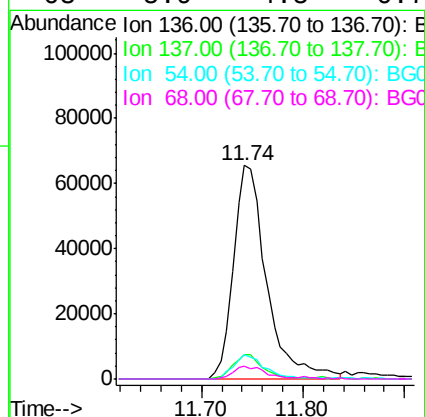
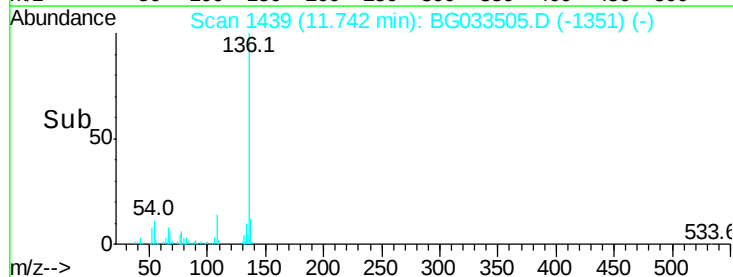
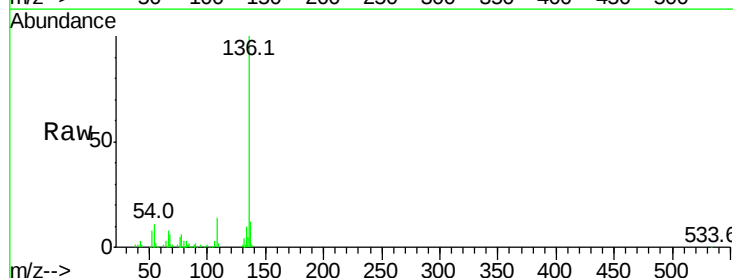
Instrument :  
BNA\_G  
ClientSampleId :

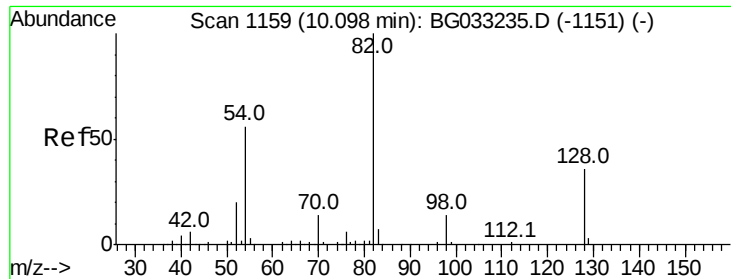
Tot Ion: 70 Resp: 41678  
Ion Ratio Lower Upper  
70 100  
42 44.9 49.1 73.7#  
101 0.0 8.5 12.7#  
130 2.0 13.4 20.0#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 11.74 min Scan# 1439  
Delta R.T. -0.02 min  
Lab File: BG033505.D  
Acq: 3 Apr 2018 2:16

Tgt Ion: 136 Resp: 148774  
Ion Ratio Lower Upper  
136 100  
137 11.7 9.2 13.8  
54 11.2 10.3 15.5  
68 5.9 4.5 6.7

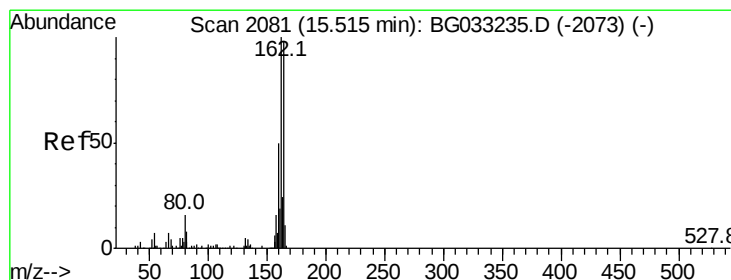
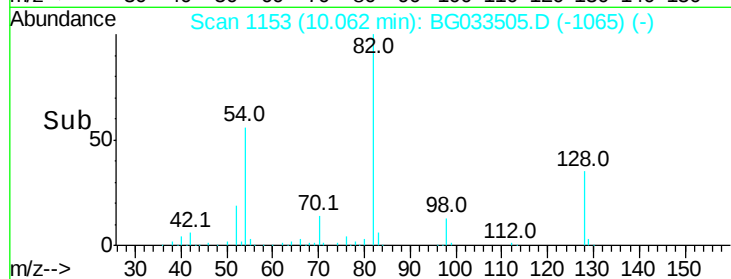
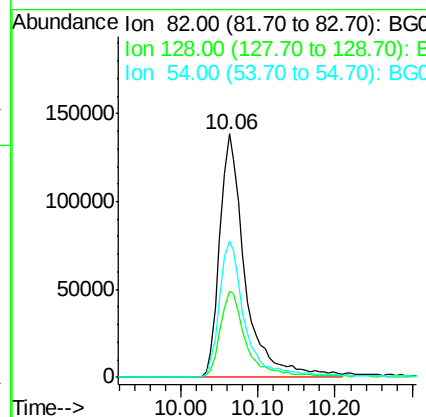
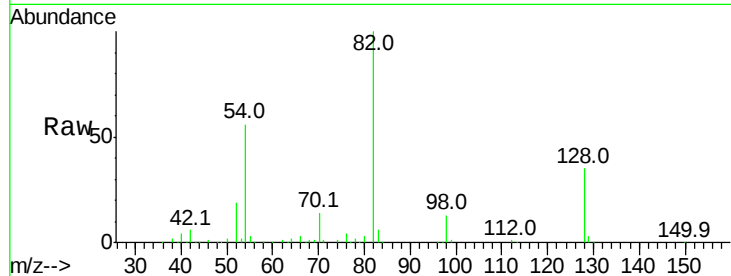




#23  
 Nitrobenzene-d5  
 Concen: 97.829 ng  
 RT: 10.06 min Scan# 1153  
 Delta R.T. -0.02 min  
 Lab File: BG033505.D  
 Acq: 3 Apr 2018 2:16

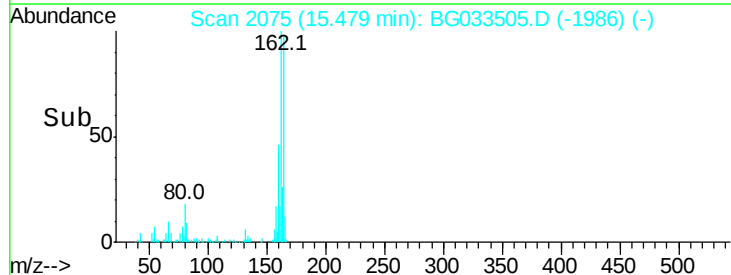
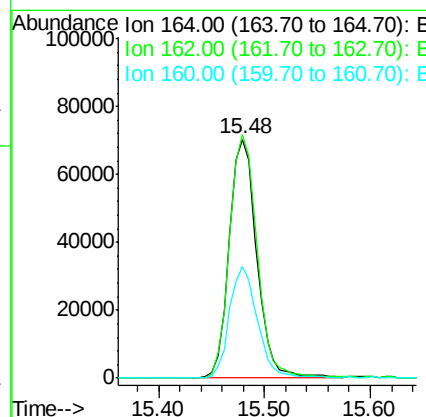
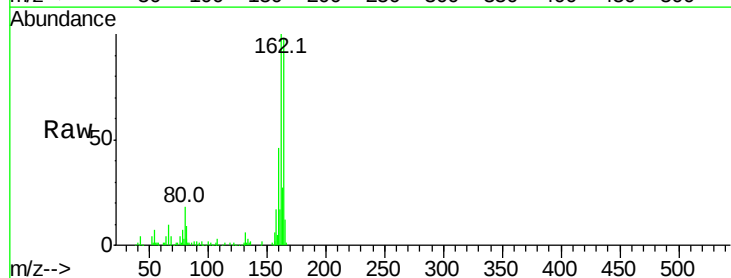
Instrument :  
 BNA\_G  
 ClientSampled :

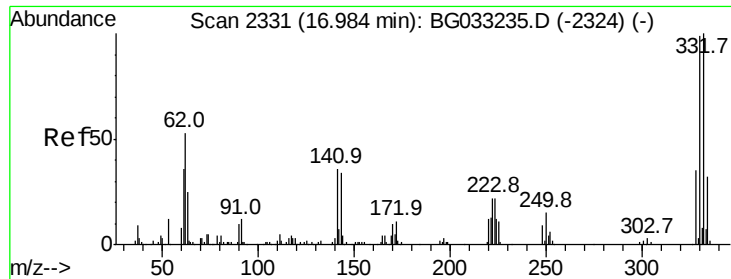
| Tot Ion | 82    | Resp  | 316787 |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 82      | 100   |       |        |
| 128     | 35.5  | 29.7  | 44.5   |
| 54      | 56.1  | 43.1  | 64.7   |



#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 15.48 min Scan# 2075  
 Delta R.T. -0.01 min  
 Lab File: BG033505.D  
 Acq: 3 Apr 2018 2:16

| Tgt Ion | 164   | Resp  | 127136 |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 164     | 100   |       |        |
| 162     | 101.9 | 78.8  | 118.2  |
| 160     | 46.6  | 35.4  | 53.0   |

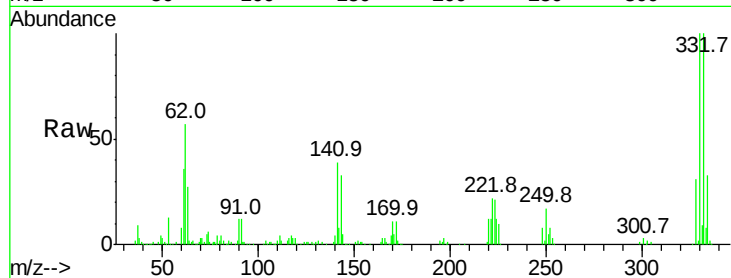




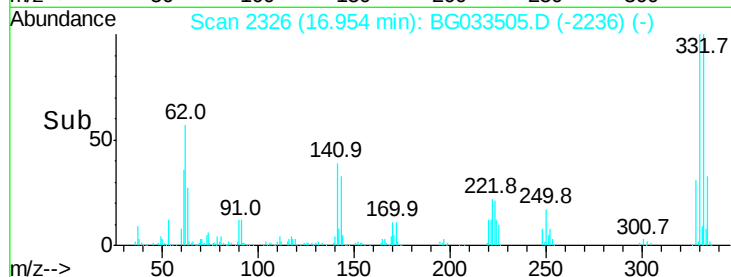
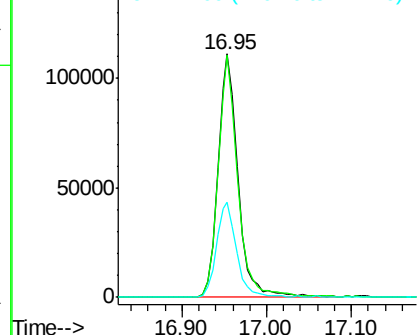
#41  
 2,4,6-Tribromophenol  
 Concen: 97.876 ng  
 RT: 16.95 min Scan# 2326  
 Delta R.T. -0.00 min  
 Lab File: BG033505.D  
 Acq: 3 Apr 2018 2:16

Instrument :  
 BNA\_G  
 ClientSampled :

Tot Ion:330 Resp: 186108  
 Ion Ratio Lower Upper  
 330 100  
 332 97.4 77.0 115.6  
 141 39.1 25.2 37.8#

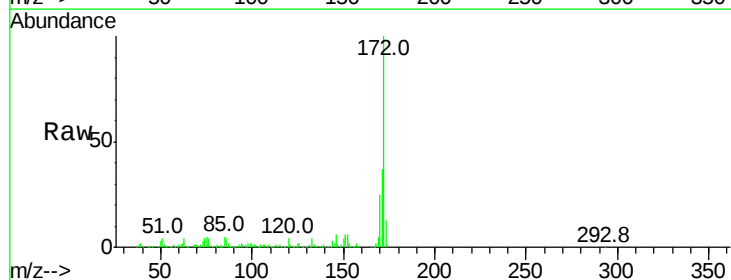


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

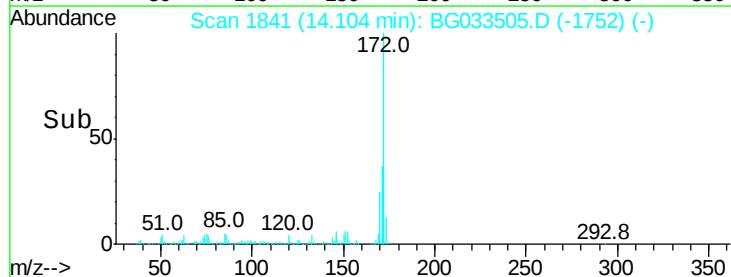
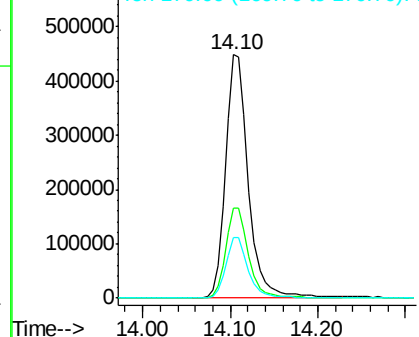


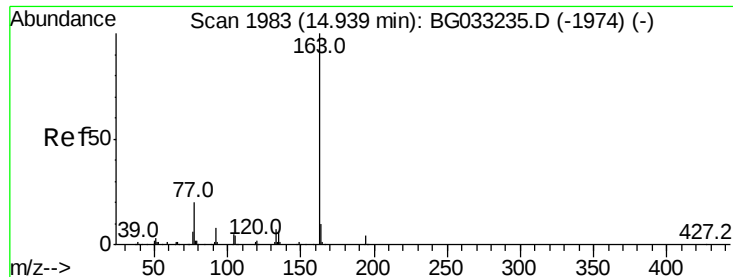
#44  
 2-Fluorobiphenyl  
 Concen: 91.440 ng  
 RT: 14.10 min Scan# 1841  
 Delta R.T. -0.01 min  
 Lab File: BG033505.D  
 Acq: 3 Apr 2018 2:16

Tgt Ion:172 Resp: 805277  
 Ion Ratio Lower Upper  
 172 100  
 171 36.8 30.0 45.0  
 170 24.9 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





#49

Dimethylphthalate

Concen: 3.471 ng

RT: 14.90 min Scan# 1977

Delta R.T. -0.01 min

Lab File: BG033505.D

Acq: 3 Apr 2018 2:16

Instrument :

BNA\_G

ClientSampleId :

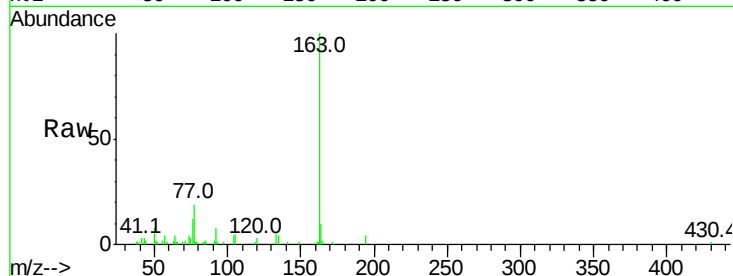
Tot Ion:163 Resp: 38406

Ion Ratio Lower Upper

163 100

194 4.5 3.4 5.2

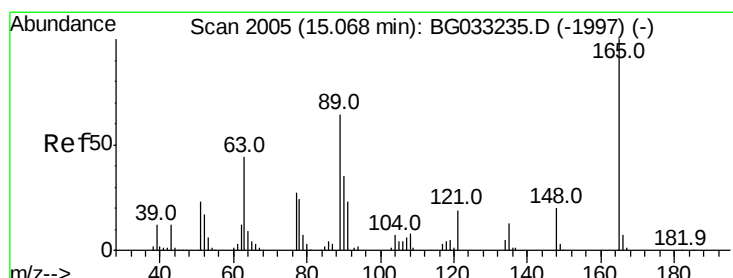
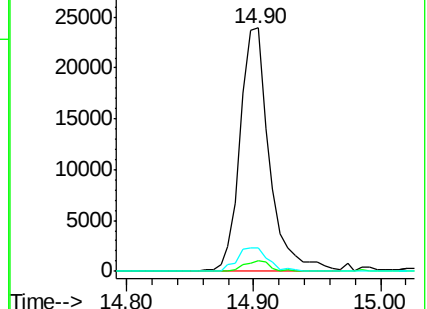
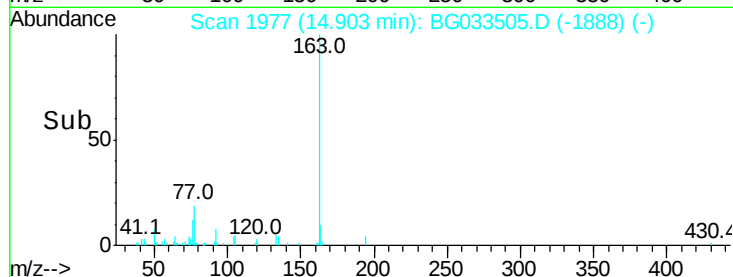
164 9.9 8.2 12.4



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#50

2,6-Dinitrotoluene

Concen: 7.320 ng

RT: 15.48 min Scan# 2076

Delta R.T. 0.44 min

Lab File: BG033505.D

Acq: 3 Apr 2018 2:16

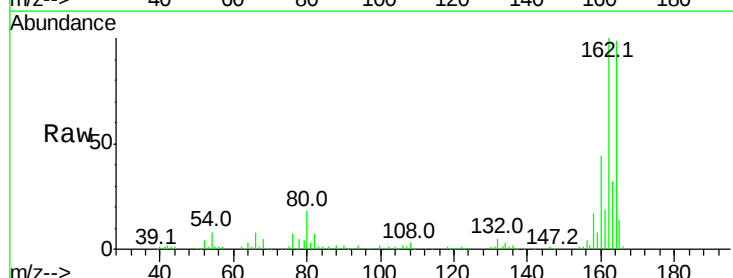
Tgt Ion:165 Resp: 16561

Ion Ratio Lower Upper

165 100

63 2.3 52.7 79.1#

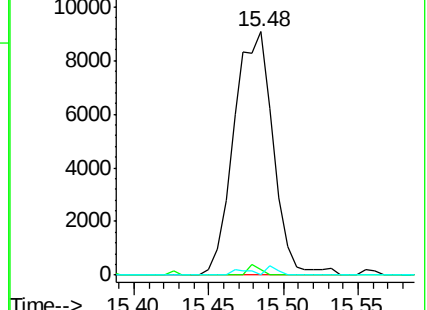
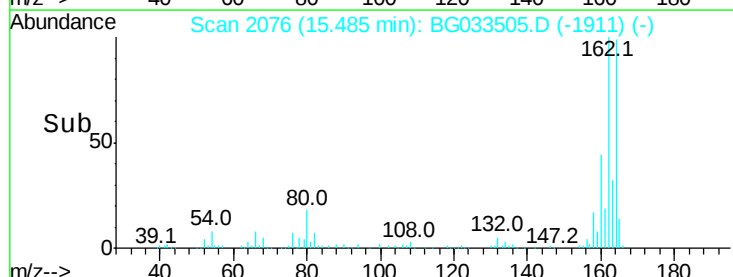
89 0.0 49.2 73.8#

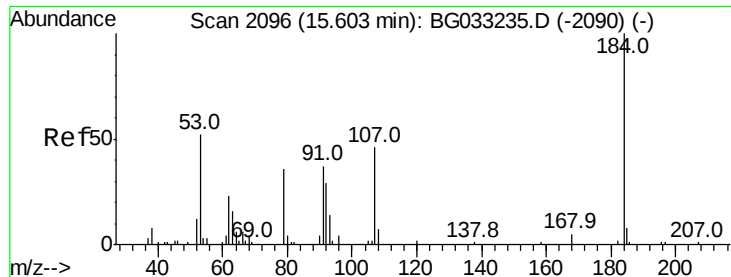


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BG

Ion 89.00 (88.70 to 89.70): BG

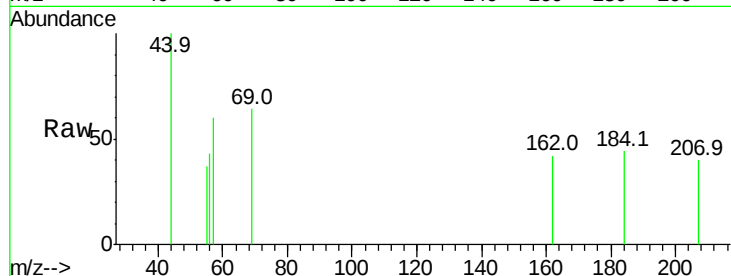




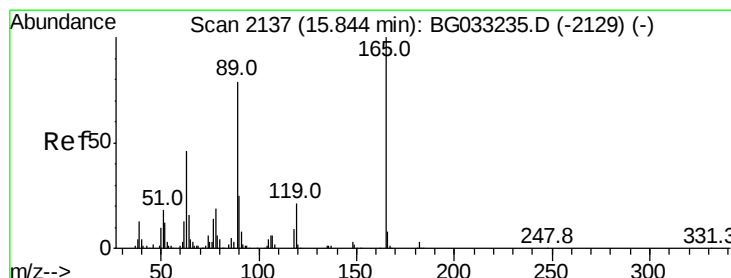
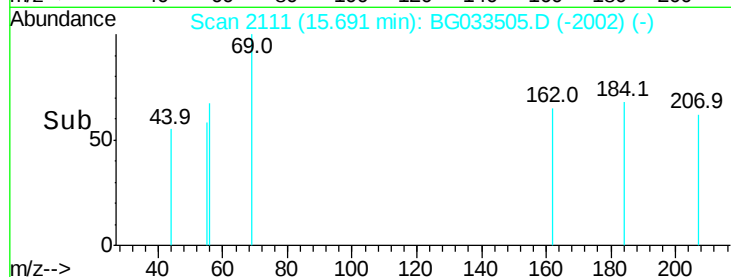
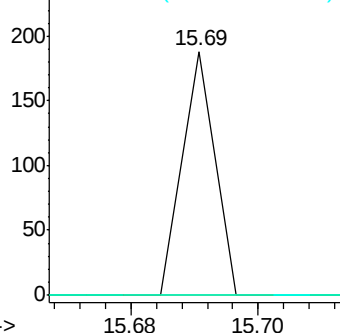
#53  
 2,4-Dinitrophenol  
 Concen: 7.694 ng  
 RT: 15.69 min Scan# 2111  
 Delta R.T. 0.11 min  
 Lab File: BG033505.D  
 Acq: 3 Apr 2018 2:16

Instrument :  
 BNA\_G  
 ClientSampleId :

Tot Ion:184 Resp: 66  
 Ion Ratio Lower Upper  
 184 100  
 63 0.0 59.8 89.8#  
 154 0.0 101.8 152.8#

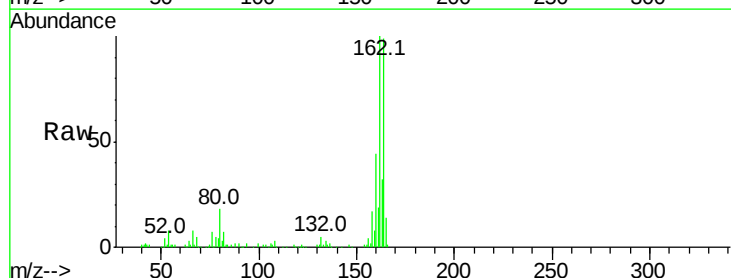


Abundance Ion 184.00 (183.70 to 184.70): E  
 Ion 63.00 (62.70 to 63.70): BGC  
 Ion 154.00 (153.70 to 154.70): E

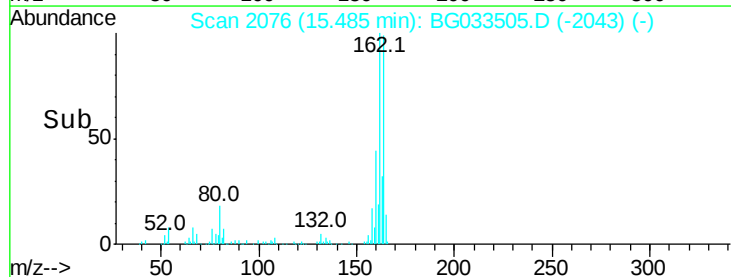
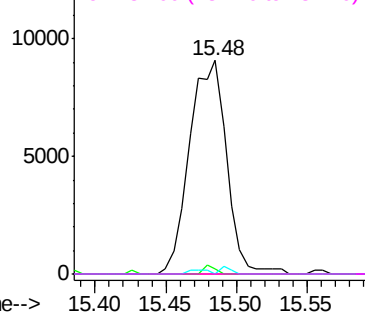


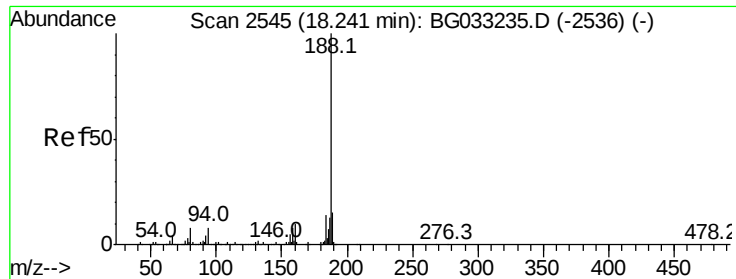
#56  
 2,4-Dinitrotoluene  
 Concen: 4.971 ng  
 RT: 15.48 min Scan# 2076  
 Delta R.T. -0.34 min  
 Lab File: BG033505.D  
 Acq: 3 Apr 2018 2:16

Tgt Ion:165 Resp: 16560  
 Ion Ratio Lower Upper  
 165 100  
 63 2.3 42.0 63.0#  
 89 0.0 66.9 100.3#  
 182 0.0 2.6 3.8#



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





#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 18.21 min Scan# 2540

Delta R.T. -0.00 min

Lab File: BG033505.D

Acq: 3 Apr 2018 2:16

Instrument :

BNA\_G

ClientSampleId :

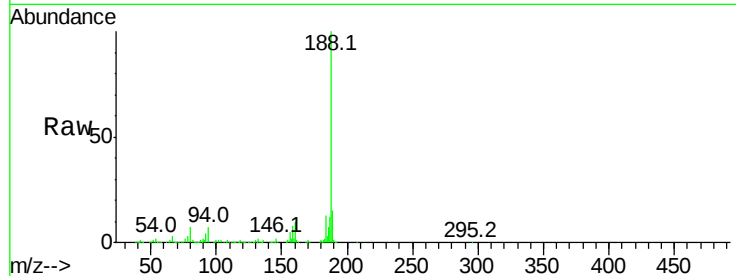
Tot Ion:188 Resp: 354970

Ion Ratio Lower Upper

188 100

94 6.9 6.9 10.3

80 7.1 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

250000

200000

150000

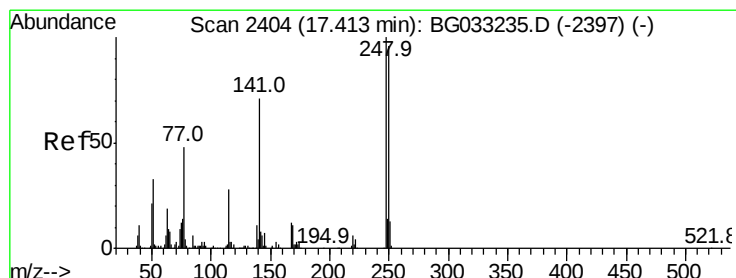
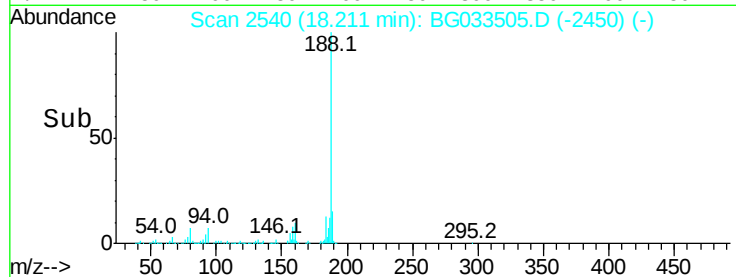
100000

50000

0

18.10 18.20 18.30 18.40

Time-->



#66

4-Bromophenyl-phenylether

Concen: 3.733 ng

RT: 16.95 min Scan# 2325

Delta R.T. -0.44 min

Lab File: BG033505.D

Acq: 3 Apr 2018 2:16

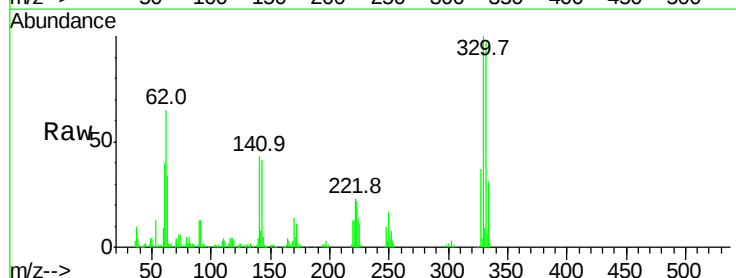
Tgt Ion:248 Resp: 15561

Ion Ratio Lower Upper

248 100

250 170.2 77.1 115.7#

141 437.4 50.8 76.2#



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

60000

50000

40000

30000

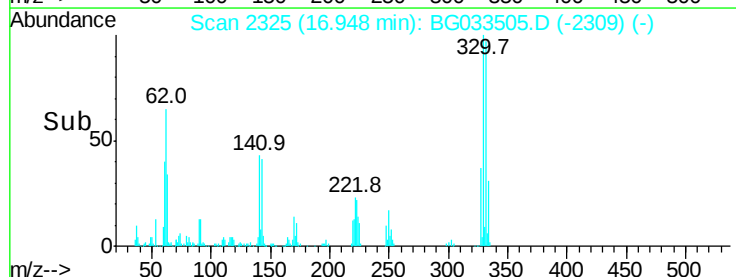
20000

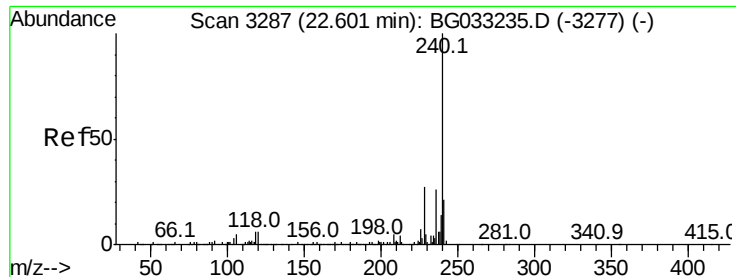
10000

0

16.90 16.95 17.00

Time-->





#75

Chrysene-d12

Concen: 20.000 ng

RT: 22.55 min Scan# 3279

Delta R.T. -0.01 min

Lab File: BG033505.D

Acq: 3 Apr 2018 2:16

Instrument :

BNA\_G

ClientSampled :

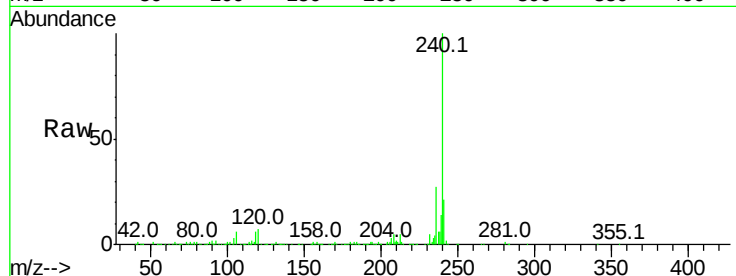
Tot Ion:240 Resp: 357903

Ion Ratio Lower Upper

240 100

120 6.9 6.8 10.2

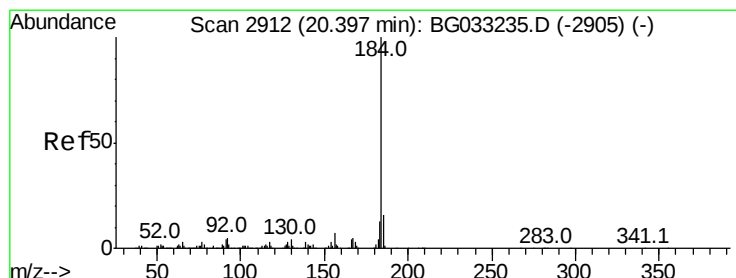
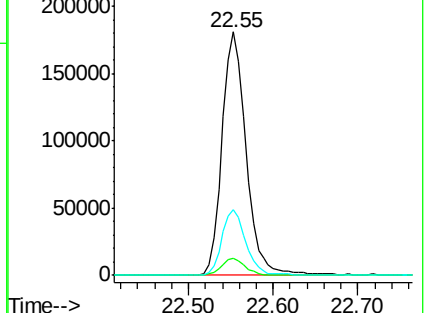
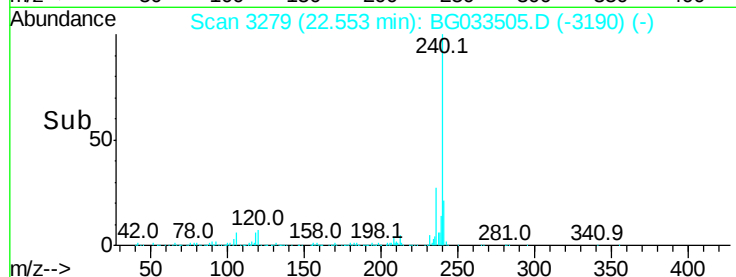
236 27.0 20.9 31.3



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



#76

Benzidine

Concen: 2.765 ng

RT: 20.73 min Scan# 2969

Delta R.T. 0.36 min

Lab File: BG033505.D

Acq: 3 Apr 2018 2:16

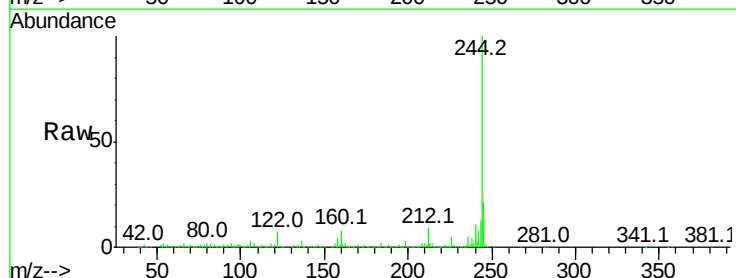
Tgt Ion:184 Resp: 26832

Ion Ratio Lower Upper

184 100

185 15.6 11.1 16.7

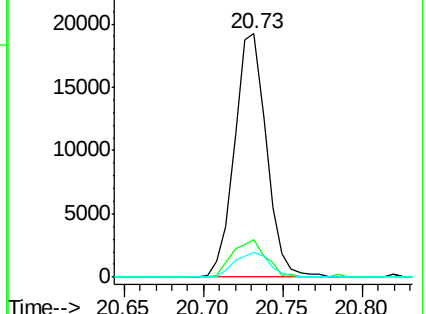
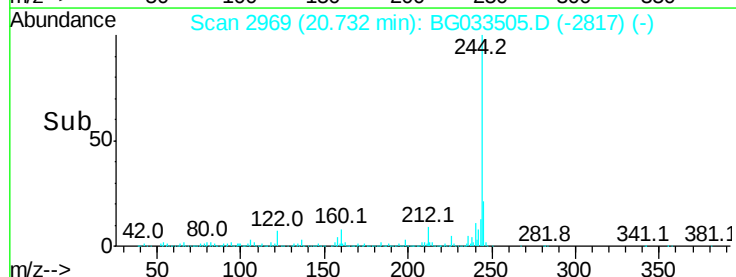
183 10.3 10.6 16.0#

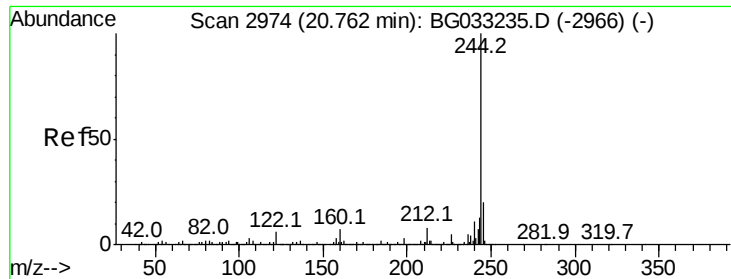


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E

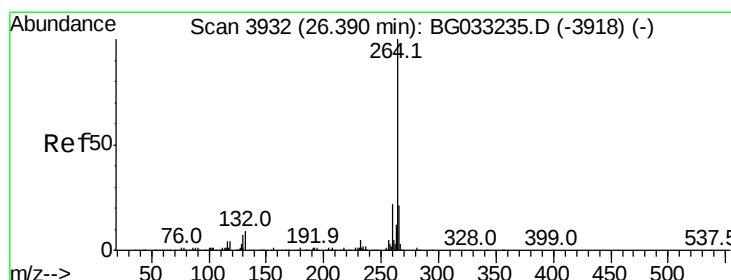
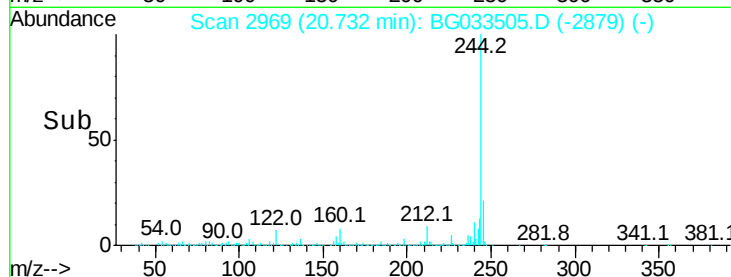
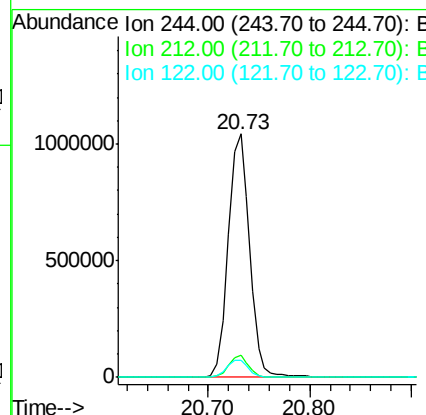
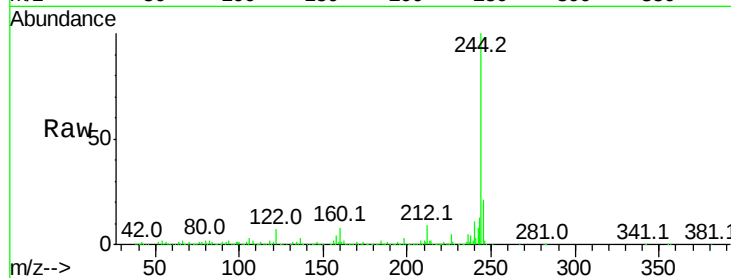




#78  
 Terphenyl-d14  
 Concen: 91.154 ng  
 RT: 20.73 min Scan# 2969  
 Delta R.T. -0.00 min  
 Lab File: BG033505.D  
 Acq: 3 Apr 2018 2:16

Instrument :  
 BNA\_G  
 ClientSampled :

Tot Ion:244 Resp: 1525488  
 Ion Ratio Lower Upper  
 244 100  
 212 9.0 5.8 8.8#  
 122 7.1 7.0 10.4



#86  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 26.31 min Scan# 3919  
 Delta R.T. -0.02 min  
 Lab File: BG033505.D  
 Acq: 3 Apr 2018 2:16

Tgt Ion:264 Resp: 370250  
 Ion Ratio Lower Upper  
 264 100  
 260 25.1 17.4 26.0  
 265 22.3 17.7 26.5

