

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA G\DATA\BG032018\  
 Data File : BG033283.D  
 Acq On : 21 Mar 2018 2:05  
 Operator : SJ/JU  
 Sample : J1974-02  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 YR18020063

Quant Time: Mar 21 03:48:39 2018  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG031918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Mar 19 16:48:53 2018  
 Response via : Initial Calibration

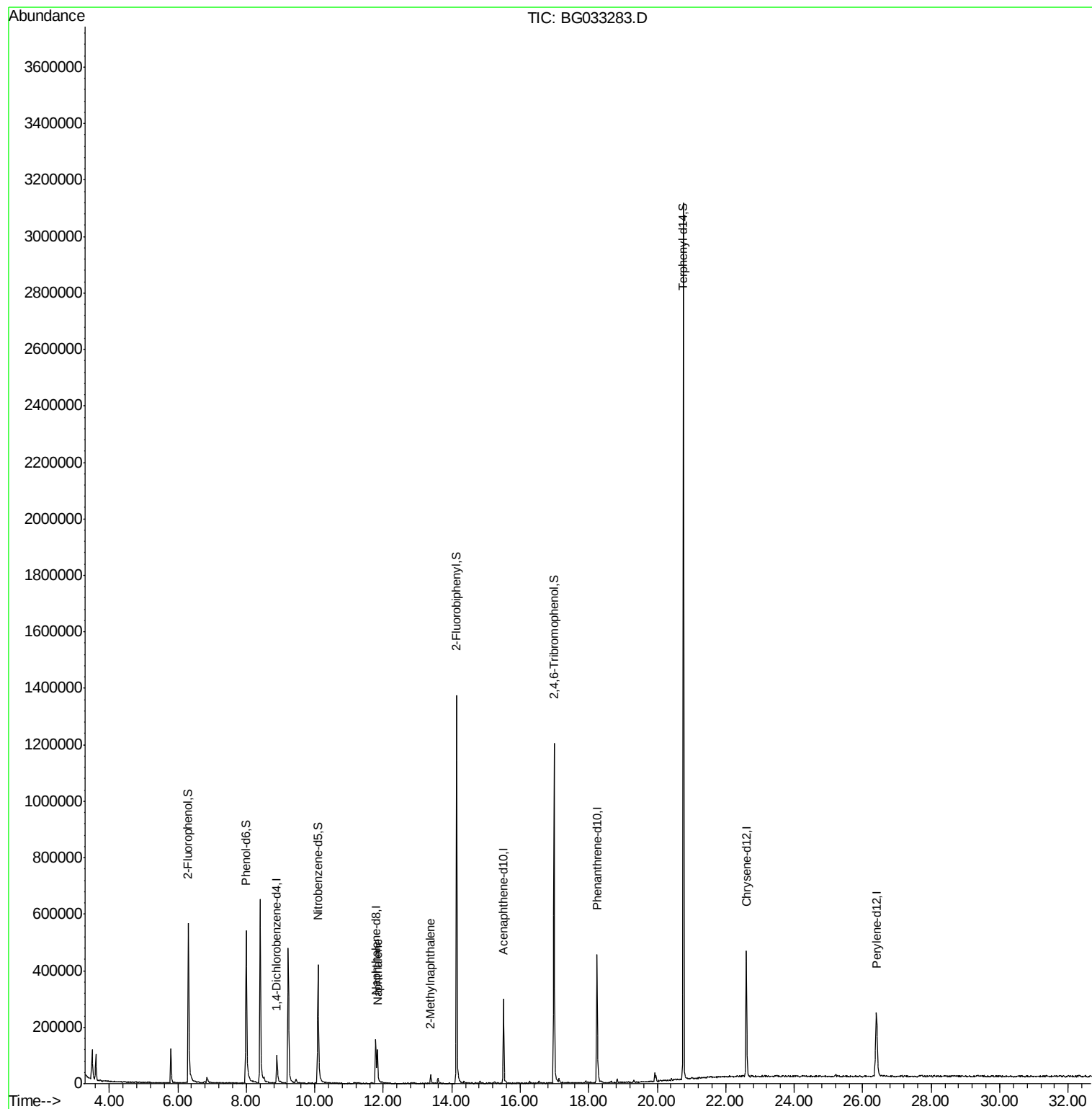
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.89  | 152  | 34814    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 11.78 | 136  | 152888   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10        | 15.51 | 164  | 117577   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10        | 18.24 | 188  | 320434   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12            | 22.60 | 240  | 316068   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12            | 26.40 | 264  | 325891   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 6.31  | 112  | 292984   | 157.80 | ng    | 0.00     |
| 7) Phenol-d6                | 8.00  | 99   | 400844   | 125.65 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 10.09 | 82   | 333839   | 100.32 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 16.98 | 330  | 238384   | 135.56 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 14.14 | 172  | 805712   | 98.93  | ng    | 0.00     |
| 78) Terphenyl-d14           | 20.76 | 244  | 1547729  | 104.72 | ng    | 0.00     |
| Target Compounds            |       |      |          |        |       |          |
| 31) Naphthalene             | 11.83 | 128  | 105012   | 13.255 | ng    | 98       |
| 37) 2-Methylnaphthalene     | 13.38 | 142  | 18464    | 3.003  | ng    | 97       |

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

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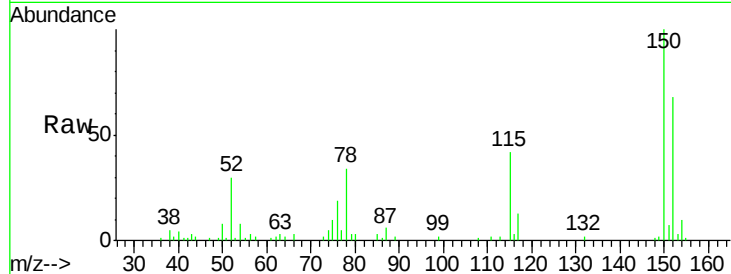


#1

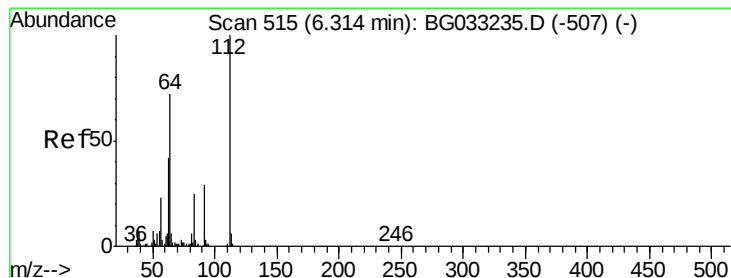
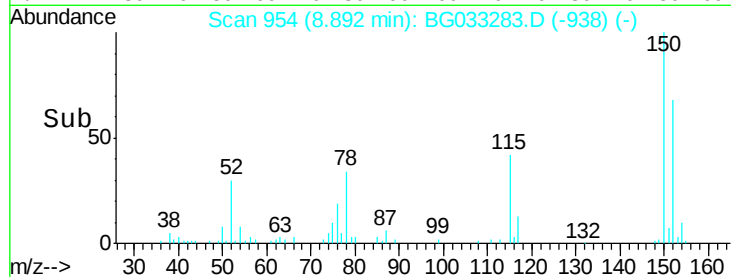
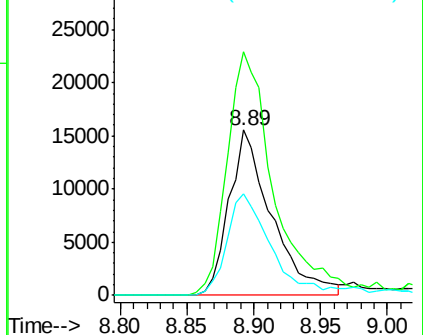
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.89 min Scan# 954  
Delta R.T. -0.01 min  
Lab File: BG033283.D  
Acq: 21 Mar 2018 2:05

Instrument :  
BNA\_G  
ClientSampleId :  
YR18020063

Tot Ion:152 Resp: 34814  
Ion Ratio Lower Upper  
152 100  
150 147.4 126.6 189.8  
115 61.8 53.0 79.4



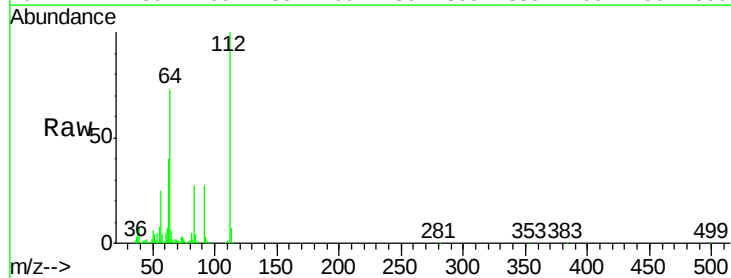
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



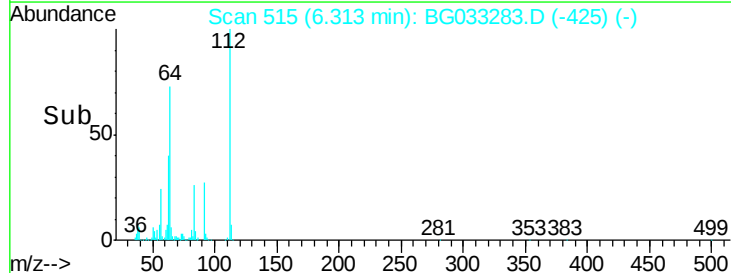
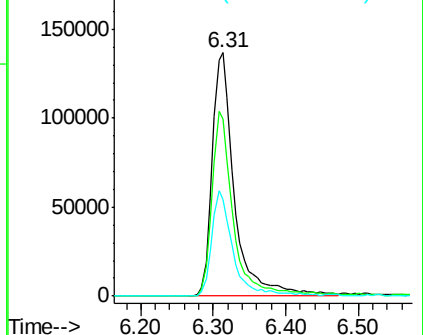
#5

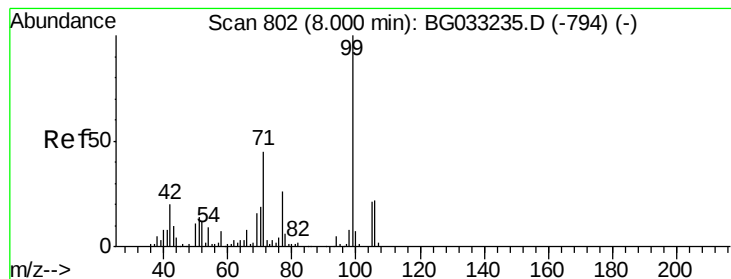
2-Fluorophenol  
Concen: 157.804 ng  
RT: 6.31 min Scan# 515  
Delta R.T. -0.00 min  
Lab File: BG033283.D  
Acq: 21 Mar 2018 2:05

Tgt Ion:112 Resp: 292984  
Ion Ratio Lower Upper  
112 100  
64 72.6 56.3 84.5  
63 39.7 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: 125.654 ng

RT: 8.00 min Scan# 802

Delta R.T. 0.00 min

Lab File: BG033283.D

Acq: 21 Mar 2018 2:05

Instrument :

BNA\_G

ClientSampleId :

YR18020063

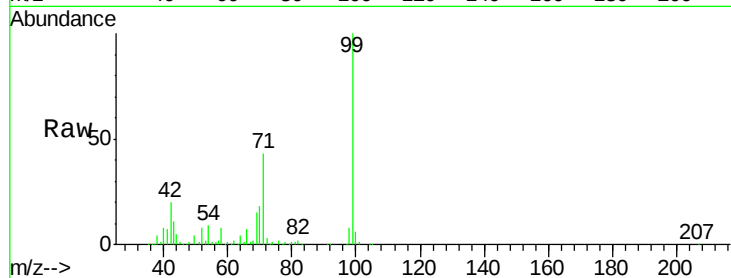
Tot Ion: 99 Resp: 400844

Ion Ratio Lower Upper

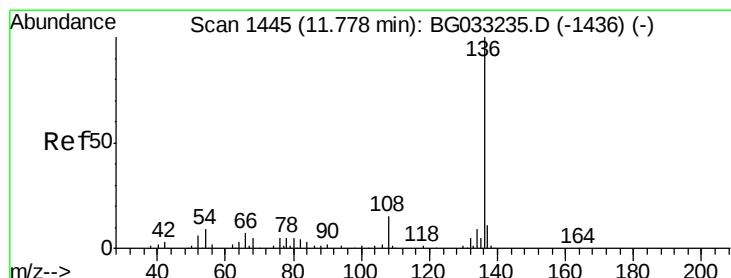
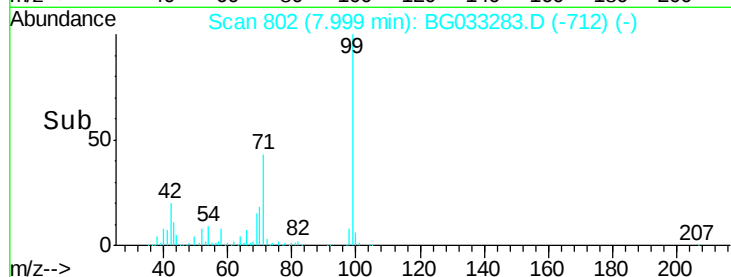
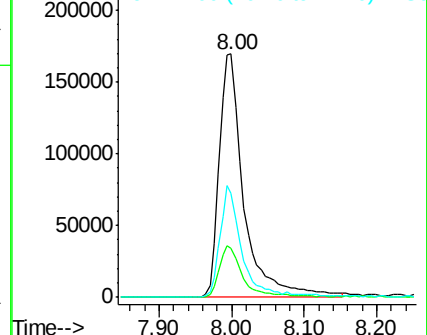
99 100

42 19.9 14.1 21.1

71 42.8 26.1 39.1#



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



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 11.78 min Scan# 1445

Delta R.T. -0.01 min

Lab File: BG033283.D

Acq: 21 Mar 2018 2:05

Tgt Ion: 136 Resp: 152888

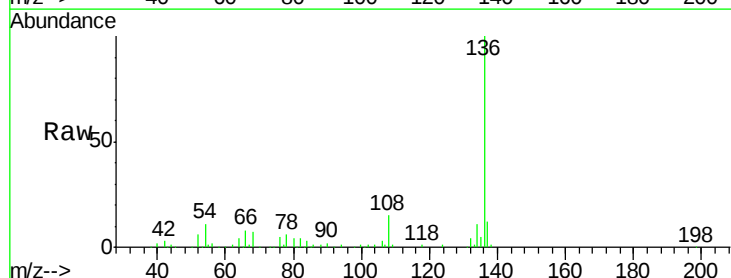
Ion Ratio Lower Upper

136 100

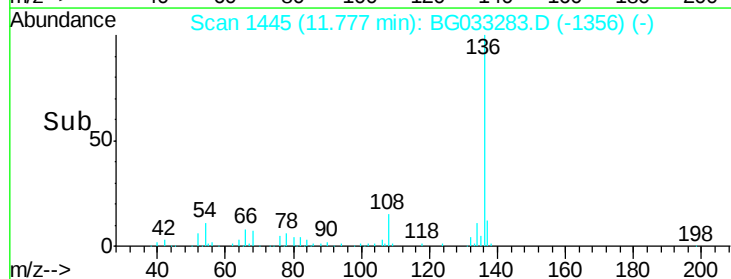
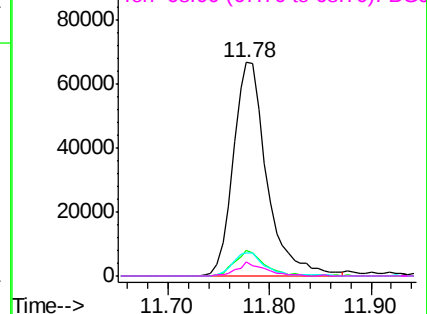
137 11.9 9.2 13.8

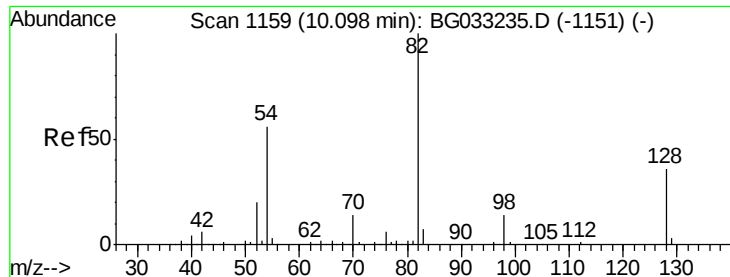
54 11.0 10.3 15.5

68 6.5 4.5 6.7



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: 100.321 ng

RT: 10.09 min Scan# 1158

Delta R.T. -0.01 min

Lab File: BG033283.D

Acq: 21 Mar 2018 2:05

Instrument :

BNA\_G

ClientSampleId :

YR18020063

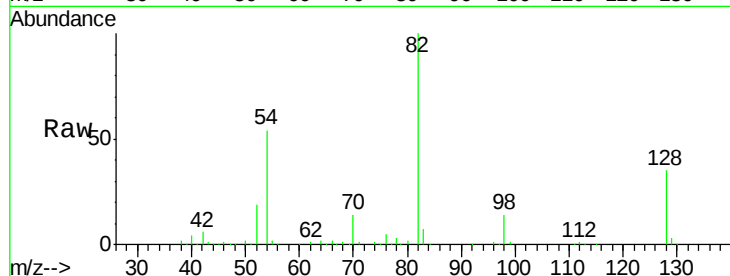
Tot Ion: 82 Resp: 333839

Ion Ratio Lower Upper

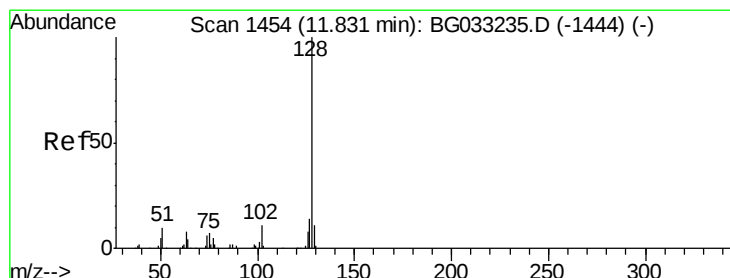
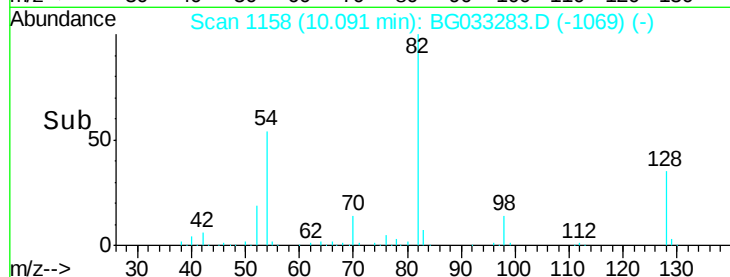
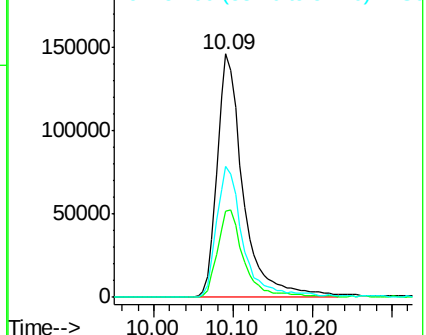
82 100

128 35.2 29.7 44.5

54 53.9 43.1 64.7



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



#31

Naphthalene

Concen: 13.255 ng

RT: 11.83 min Scan# 1454

Delta R.T. -0.00 min

Lab File: BG033283.D

Acq: 21 Mar 2018 2:05

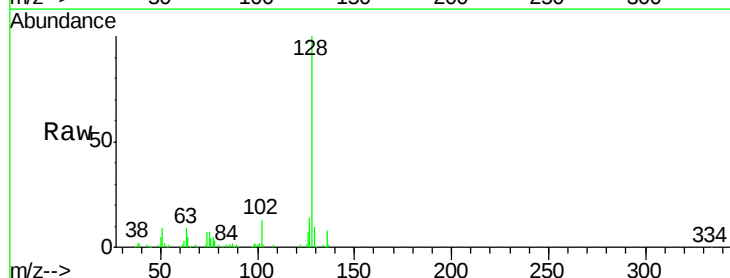
Tgt Ion: 128 Resp: 105012

Ion Ratio Lower Upper

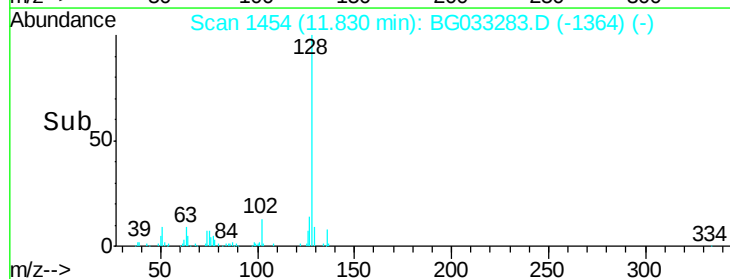
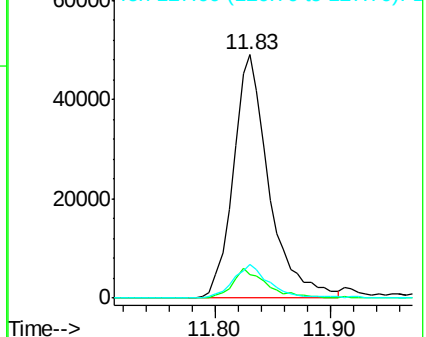
128 100

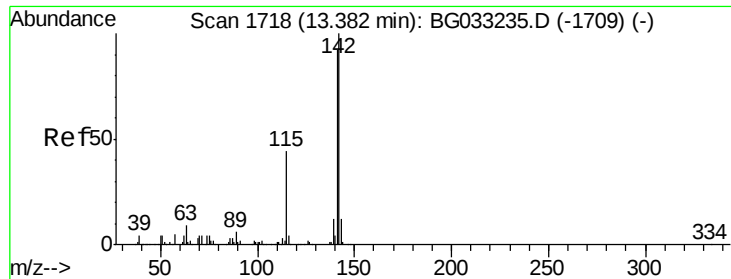
129 9.8 8.6 12.8

127 13.9 11.6 17.4



Abundance Ion 128.00 (127.70 to 128.70): BGC  
Ion 129.00 (128.70 to 129.70): BGC  
Ion 127.00 (126.70 to 127.70): BGC





#37

2-Methylnaphthalene

Concen: 3.003 ng

RT: 13.38 min Scan# 1718

Delta R.T. -0.00 min

Lab File: BG033283.D

Acq: 21 Mar 2018 2:05

Instrument :

BNA\_G

ClientSampleId :

YR18020063

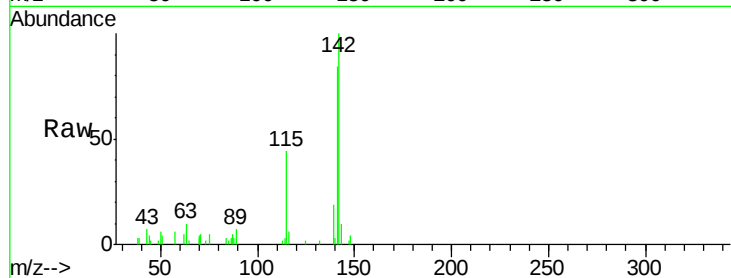
Tot Ion:142 Resp: 18464

Ion Ratio Lower Upper

142 100

141 83.7 67.1 100.7

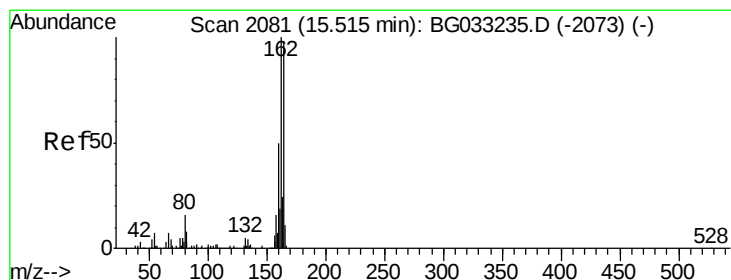
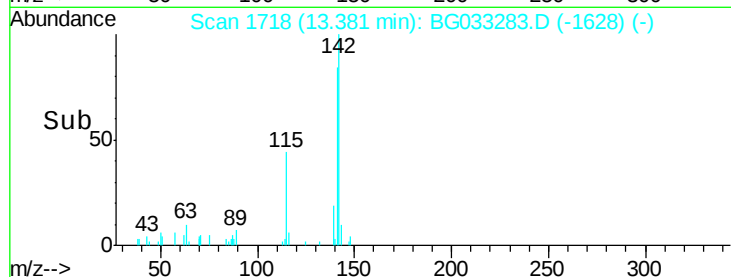
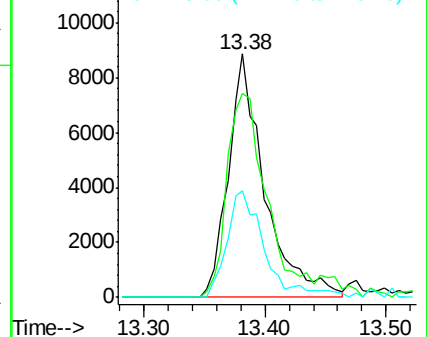
115 43.7 30.7 46.1



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 15.51 min Scan# 2080

Delta R.T. -0.01 min

Lab File: BG033283.D

Acq: 21 Mar 2018 2:05

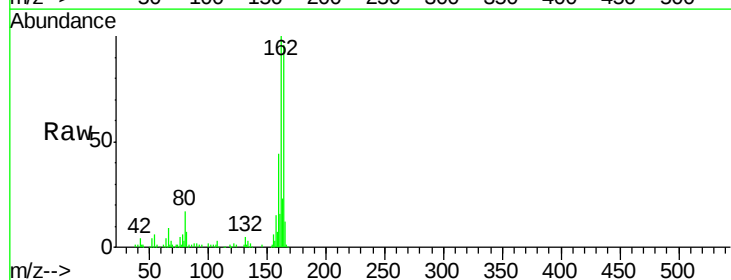
Tgt Ion:164 Resp: 117577

Ion Ratio Lower Upper

164 100

162 103.9 78.8 118.2

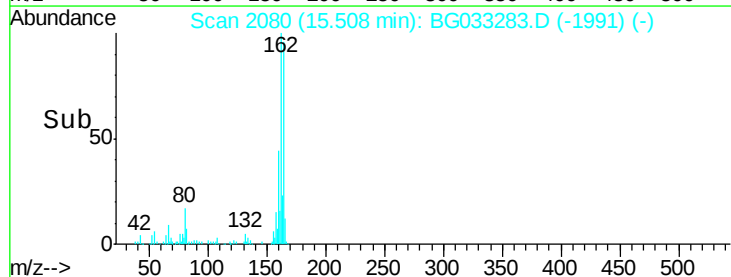
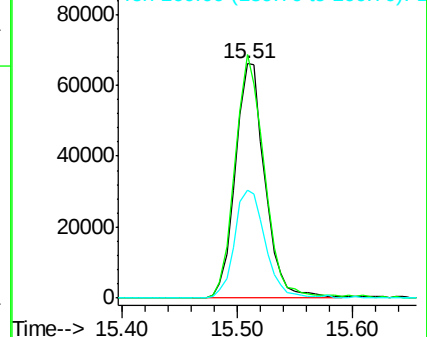
160 45.9 35.4 53.0

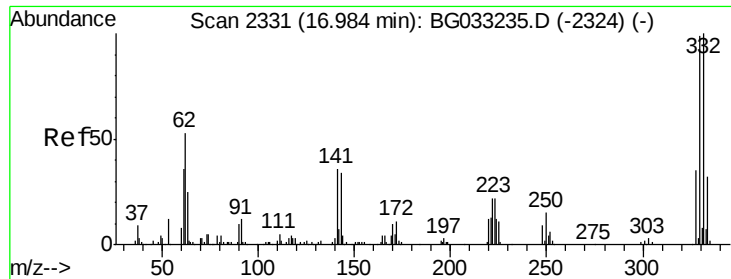


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

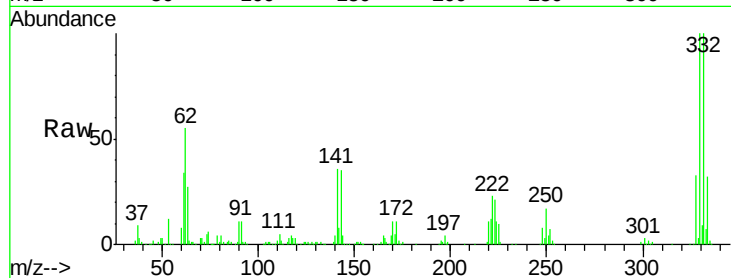




#41  
 2,4,6-Tribromophenol  
 Concen: 135.561 ng  
 RT: 16.98 min Scan# 2331  
 Delta R.T. -0.00 min  
 Lab File: BG033283.D  
 Acq: 21 Mar 2018 2:05

Instrument :  
 BNA\_G  
 ClientSampleId :  
 YR18020063

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 98.6  | 77.0  | 115.6 |
| 141     | 35.7  | 25.2  | 37.8  |

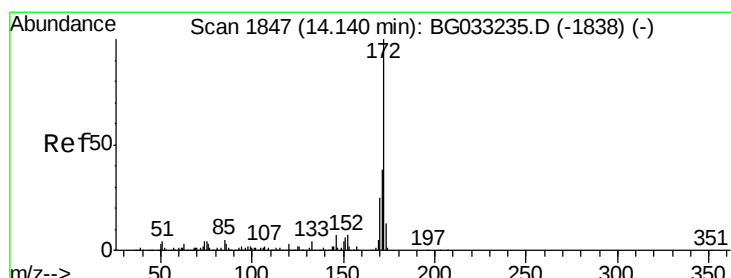
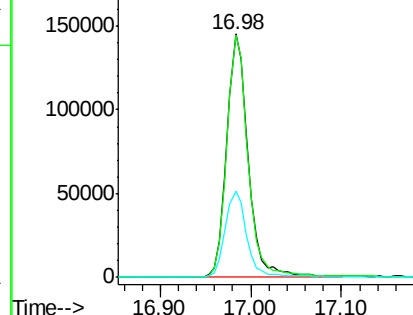
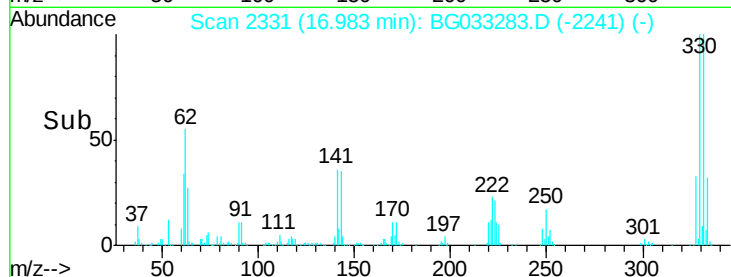


Abundance

Ion 329.80 (329.50 to 330.50): E

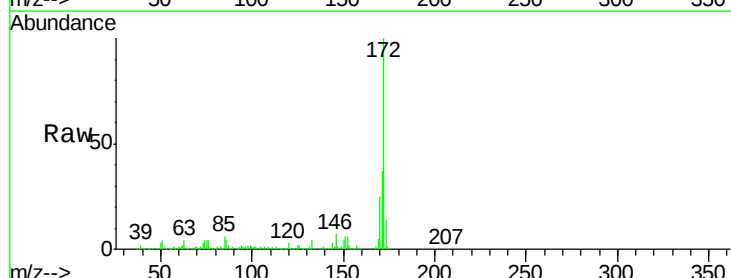
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#44  
 2-Fluorobiphenyl  
 Concen: 98.927 ng  
 RT: 14.14 min Scan# 1847  
 Delta R.T. -0.00 min  
 Lab File: BG033283.D  
 Acq: 21 Mar 2018 2:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.9  | 30.0  | 45.0  |
| 170     | 25.1  | 19.5  | 29.3  |

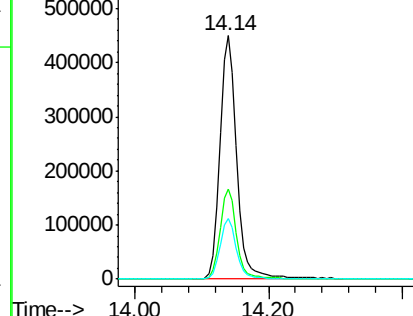
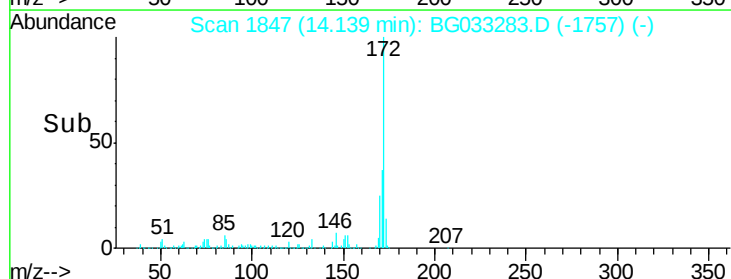


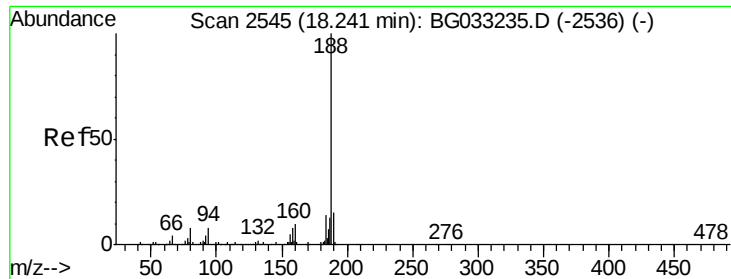
Abundance

Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 18.24 min Scan# 2545

Delta R.T. -0.00 min

Lab File: BG033283.D

Acq: 21 Mar 2018 2:05

Instrument :

BNA\_G

ClientSampleId :

YR18020063

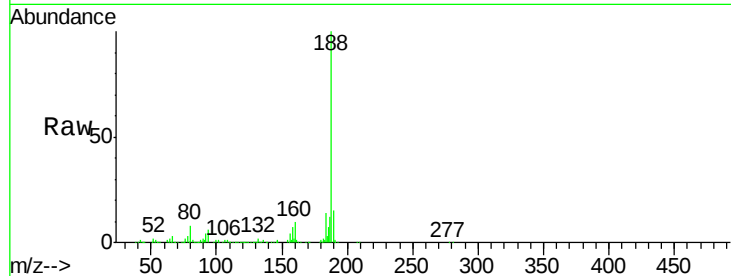
Tot Ion:188 Resp: 320434

Ion Ratio Lower Upper

188 100

94 6.0 6.9 10.3#

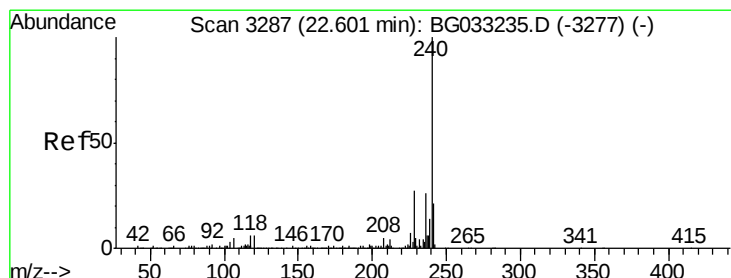
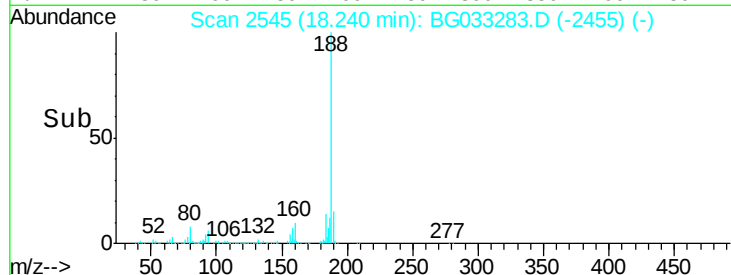
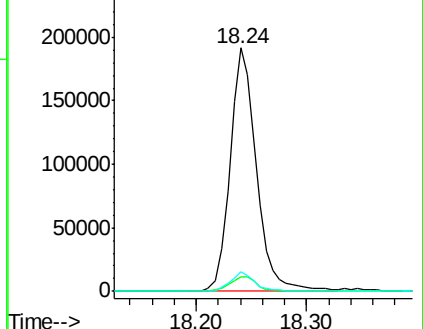
80 7.8 7.7 11.5



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



#75

Chrysene-d12

Concen: 20.000 ng

RT: 22.60 min Scan# 3287

Delta R.T. -0.00 min

Lab File: BG033283.D

Acq: 21 Mar 2018 2:05

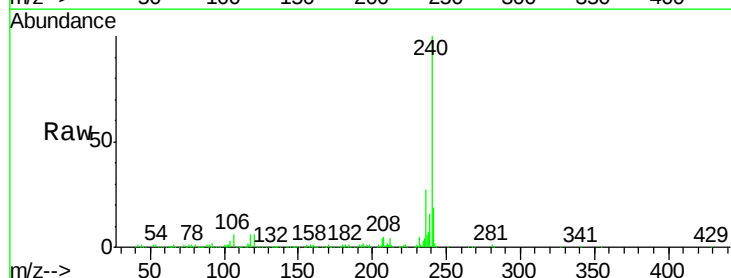
Tgt Ion:240 Resp: 316068

Ion Ratio Lower Upper

240 100

120 6.1 6.8 10.2#

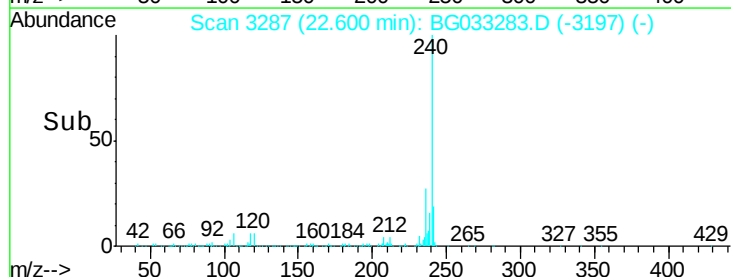
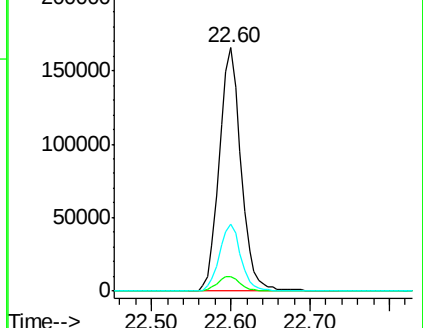
236 27.3 20.9 31.3

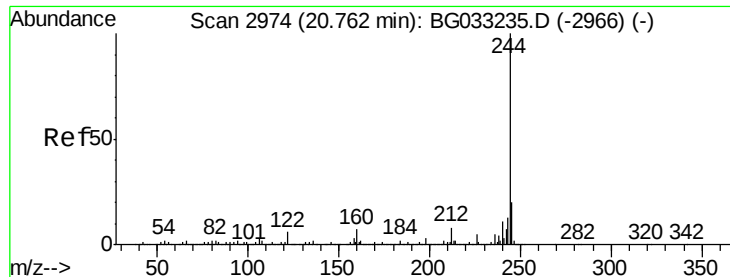


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Terphenyl-d14

Concen: 104.724 ng

RT: 20.76 min Scan# 2974

Delta R.T. -0.00 min

Lab File: BG033283.D

Acq: 21 Mar 2018 2:05

Instrument :

BNA\_G

ClientSampleId :

YR18020063

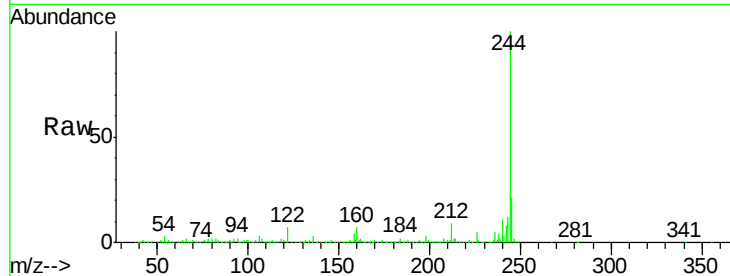
Tot Ion:244 Resp: 1547729

Ion Ratio Lower Upper

244 100

212 8.5 5.8 8.8

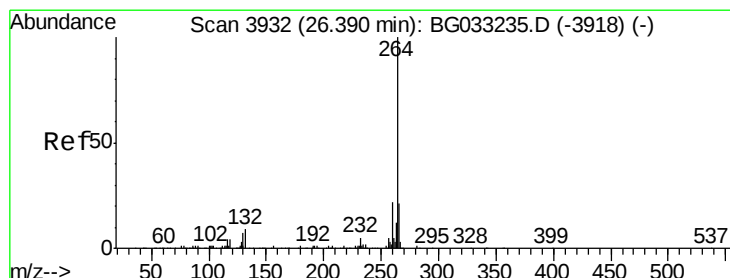
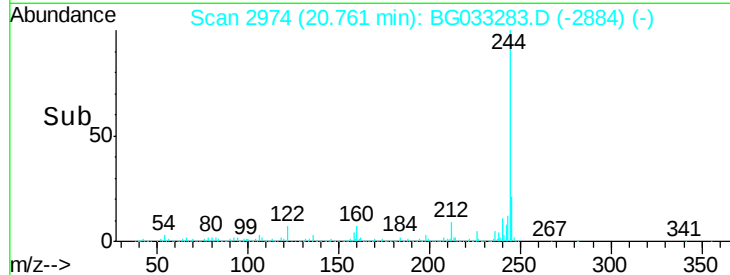
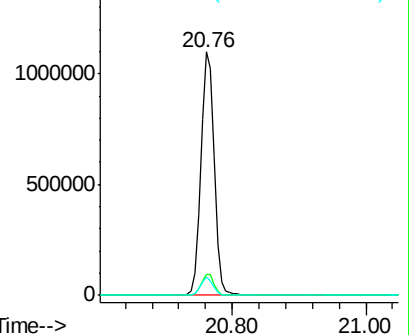
122 7.5 7.0 10.4



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



#86

Perylene-d12

Concen: 20.000 ng

RT: 26.40 min Scan# 3934

Delta R.T. 0.01 min

Lab File: BG033283.D

Acq: 21 Mar 2018 2:05

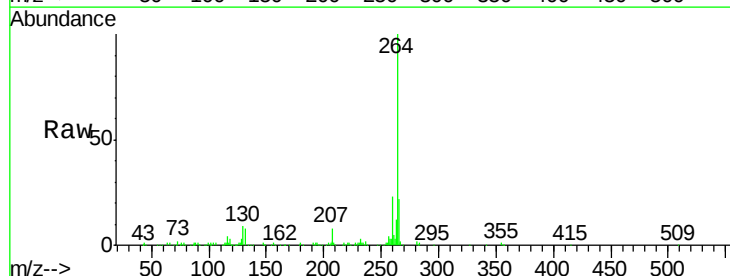
Tgt Ion:264 Resp: 325891

Ion Ratio Lower Upper

264 100

260 23.5 17.4 26.0

265 21.9 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

