

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG072518\  
 Data File : BG035869.D  
 Acq On : 25 Jul 2018 11:57  
 Operator : JU/SJ  
 Sample : J3762-09  
 Misc : MDL 1PPM  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 MDL-WATER-03-QT3-2018

Quant Time: Jul 25 12:59:26 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG071218.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jul 25 11:04:14 2018  
 Response via : Initial Calibration

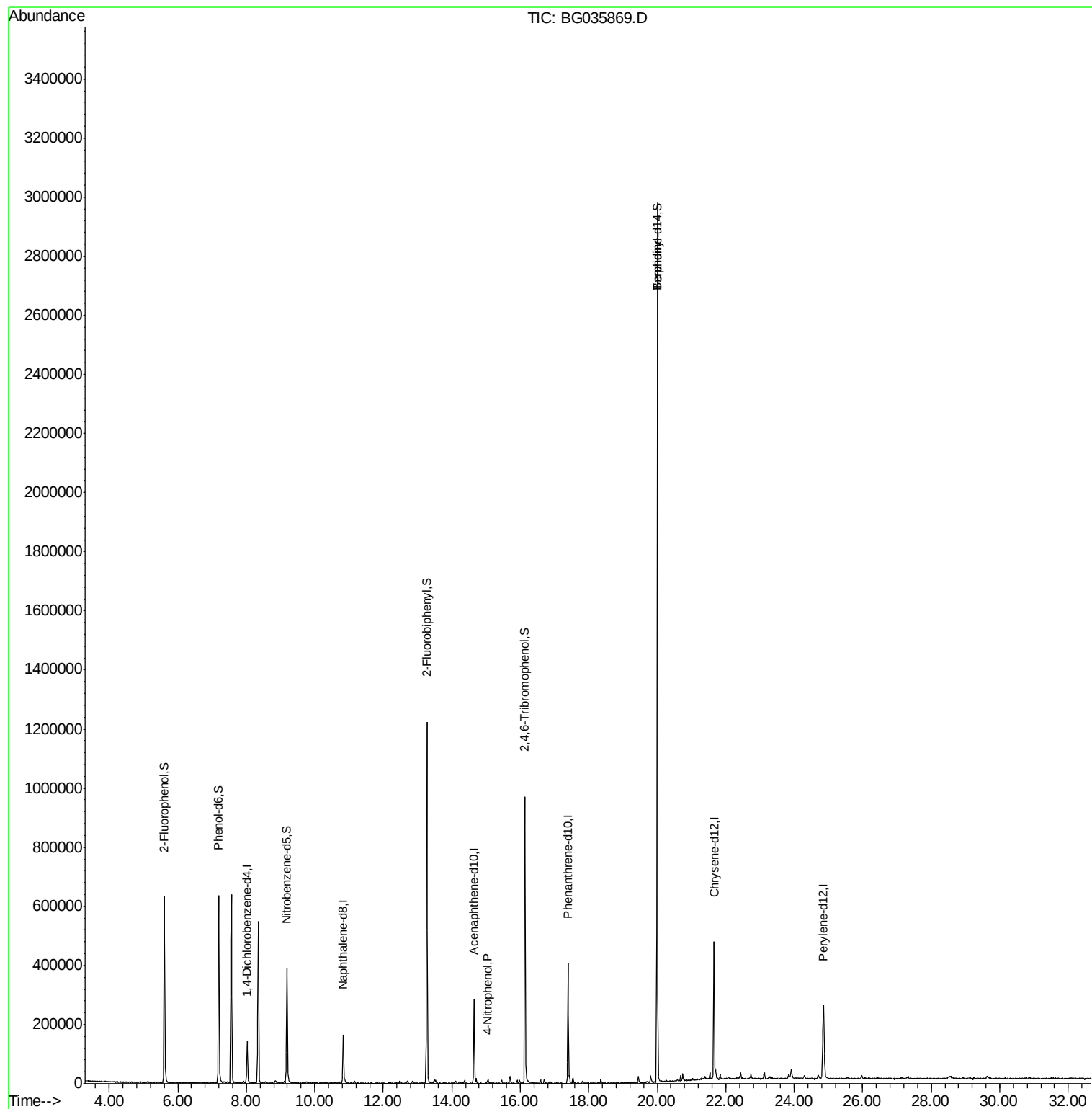
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.03  | 152  | 41078    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.83 | 136  | 148722   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10        | 14.65 | 164  | 104236   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10        | 17.39 | 188  | 274450   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12            | 21.66 | 240  | 302187   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12            | 24.85 | 264  | 288536   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.61  | 112  | 290144   | 117.27 | ng    | 0.00     |
| 7) Phenol-d6                | 7.19  | 99   | 396812   | 107.49 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.19  | 82   | 285433   | 80.18  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 16.14 | 330  | 185499   | 135.02 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 13.27 | 172  | 675580   | 86.83  | ng    | 0.00     |
| 78) Terphenyl-d14           | 20.00 | 244  | 1422504  | 103.76 | ng    | 0.00     |
| Target Compounds            |       |      |          |        |       |          |
| 55) 4-Nitrophenol           | 15.05 | 139  | 4317     | 3.189  | ng    | # 3      |
| 76) Benzidine               | 20.00 | 184  | 24522    | 3.087  | ng    | # 92     |

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

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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG071218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Jul 25 11:04:14 2018  
Response via : Initial Calibration



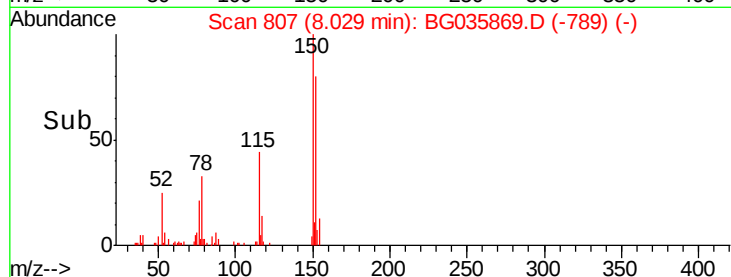
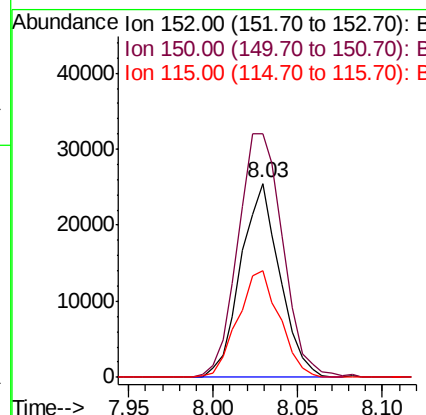
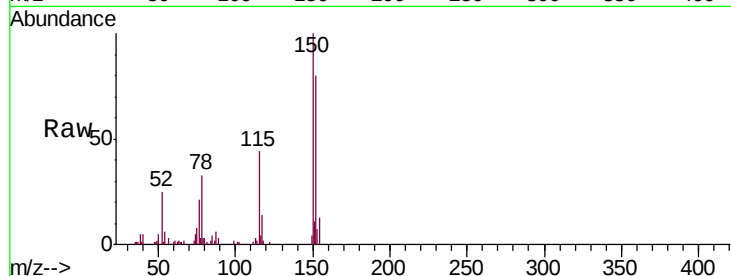


#1

1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 8.03 min Scan# 807  
 Delta R.T. 0.00 min  
 Lab File: BG035869.D  
 Acq: 25 Jul 2018 11:57

Instrument :  
 BNA\_G  
 ClientSampleId :  
 MDL-WATER-03-QT3-2018

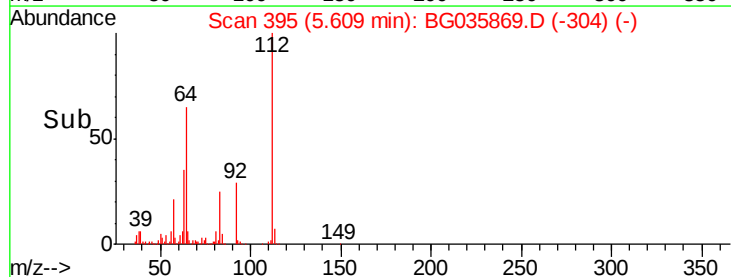
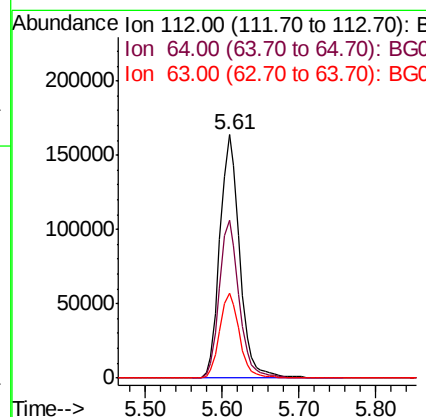
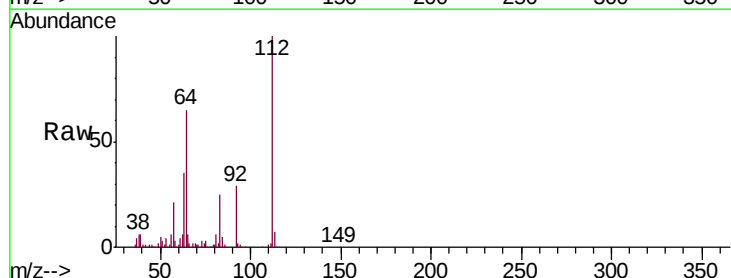
Tgt Ion:152 Resp: 41078  
 Ion Ratio Lower Upper  
 152 100  
 150 125.7 126.6 189.8#  
 115 54.9 53.0 79.4



#5

2-Fluorophenol  
 Concen: 117.266 ng  
 RT: 5.61 min Scan# 395  
 Delta R.T. 0.00 min  
 Lab File: BG035869.D  
 Acq: 25 Jul 2018 11:57

Tgt Ion:112 Resp: 290144  
 Ion Ratio Lower Upper  
 112 100  
 64 64.9 56.3 84.5  
 63 35.1 30.1 45.1





#7

Phenol-d6

Concen: 107.493 ng

RT: 7.19 min Scan# 665

Delta R.T. -0.00 min

Lab File: BG035869.D

Acq: 25 Jul 2018 11:57

Instrument :

BNA\_G

ClientSampleId :

MDL-WATER-03-QT3-2018

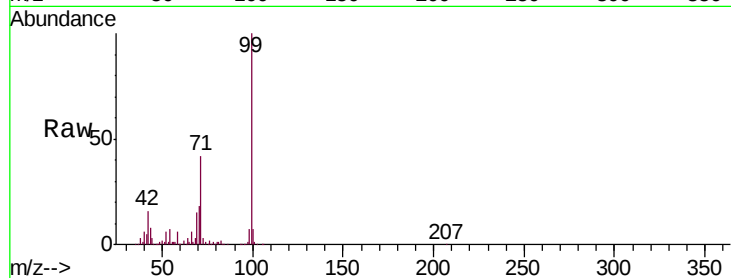
Tgt Ion: 99 Resp: 396812

Ion Ratio Lower Upper

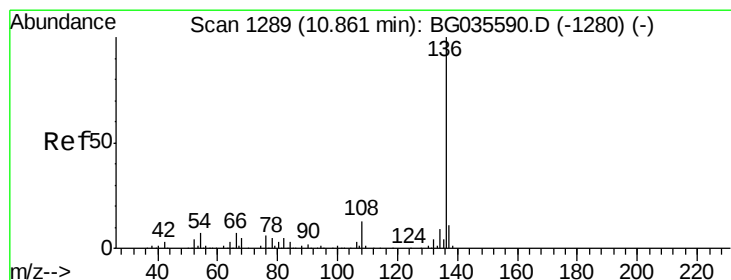
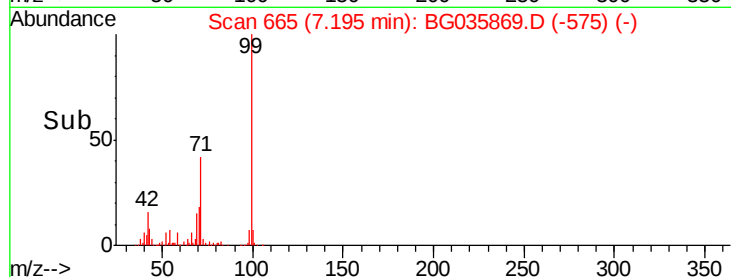
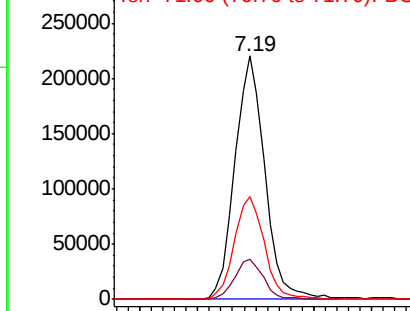
99 100

42 16.4 14.1 21.1

71 42.0 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: 10.83 min Scan# 1284

Delta R.T. -0.00 min

Lab File: BG035869.D

Acq: 25 Jul 2018 11:57

Tgt Ion: 136 Resp: 148722

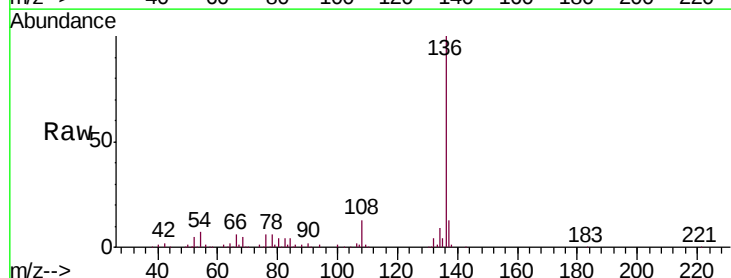
Ion Ratio Lower Upper

136 100

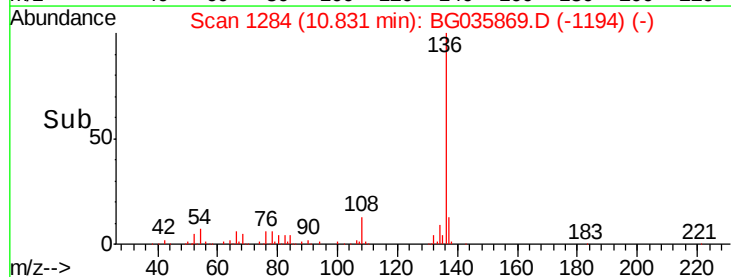
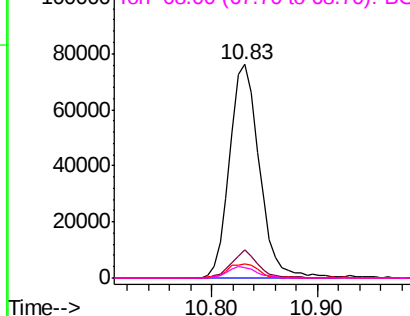
137 13.1 9.2 13.8

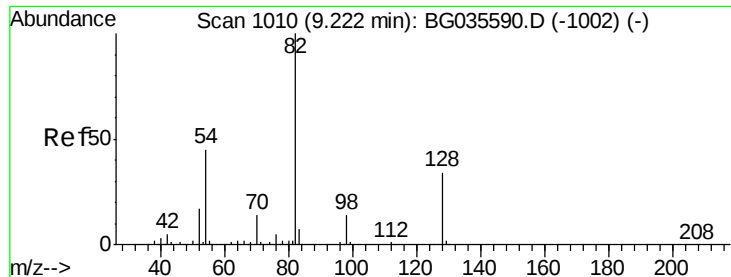
54 6.5 10.3 15.5#

68 4.6 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

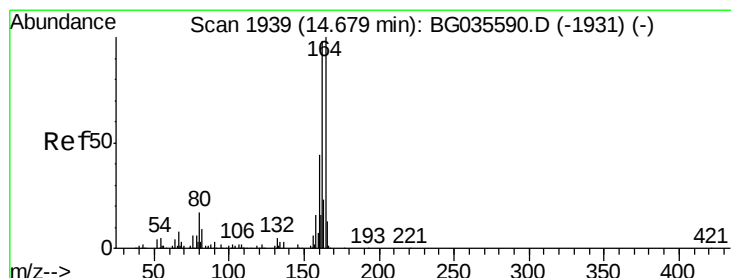
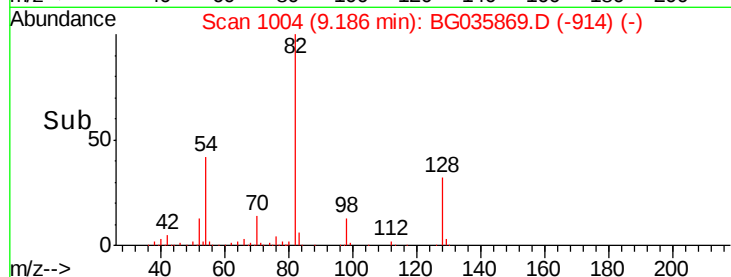
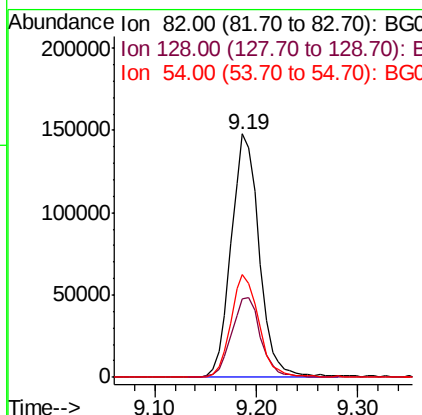
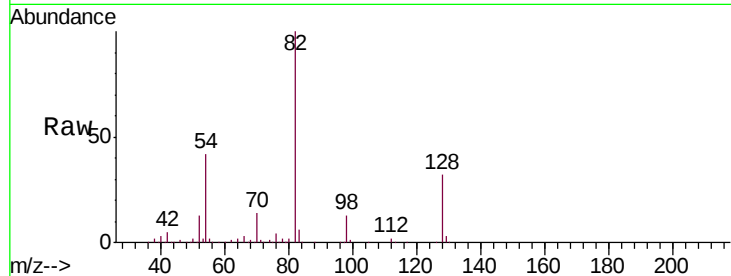




#23  
Nitrobenzene-d5  
Concen: 80.176 ng  
RT: 9.19 min Scan# 1004  
Delta R.T. -0.00 min  
Lab File: BG035869.D  
Acq: 25 Jul 2018 11:57

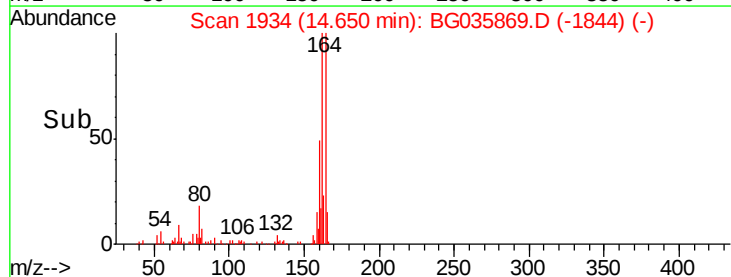
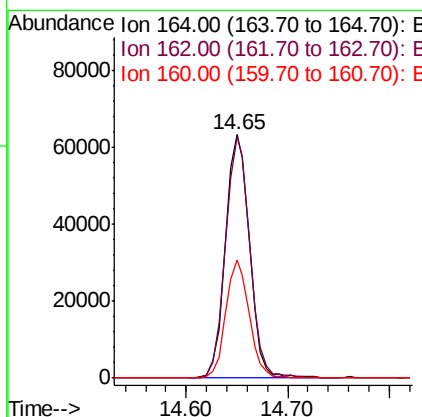
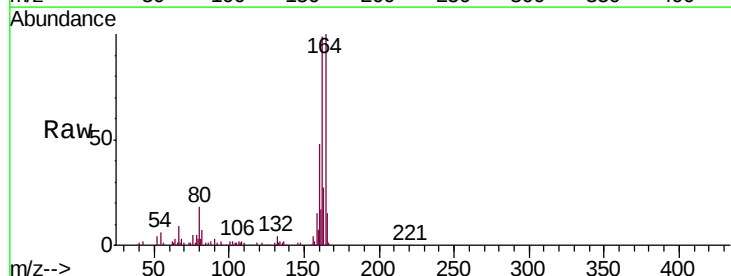
Instrument :  
BNA\_G  
ClientSampleId :  
MDL-WATER-03-QT3-2018

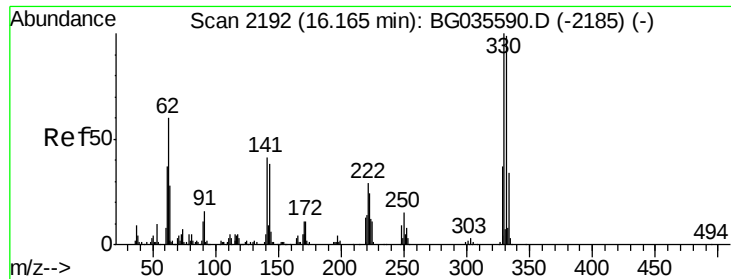
Tgt Ion: 82 Resp: 285433  
Ion Ratio Lower Upper  
82 100  
128 32.5 29.7 44.5  
54 42.2 43.1 64.7#



#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.65 min Scan# 1934  
Delta R.T. -0.00 min  
Lab File: BG035869.D  
Acq: 25 Jul 2018 11:57

Tgt Ion: 164 Resp: 104236  
Ion Ratio Lower Upper  
164 100  
162 99.1 78.8 118.2  
160 48.4 35.4 53.0

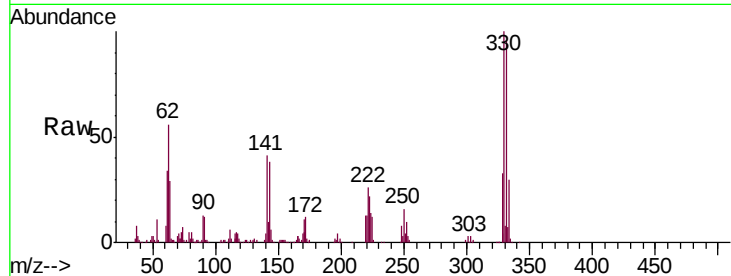




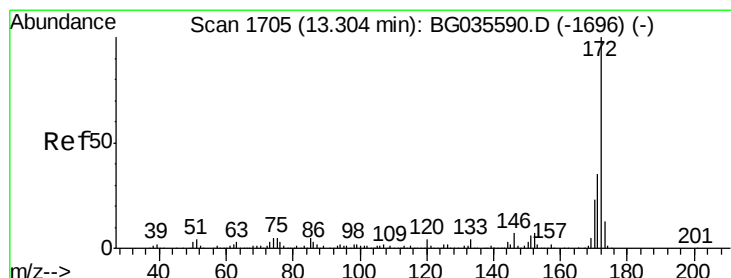
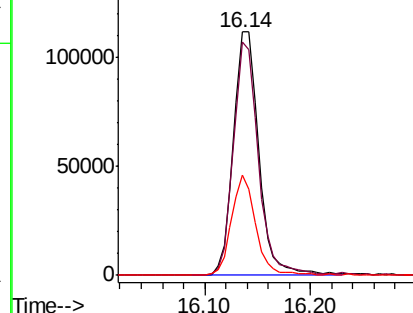
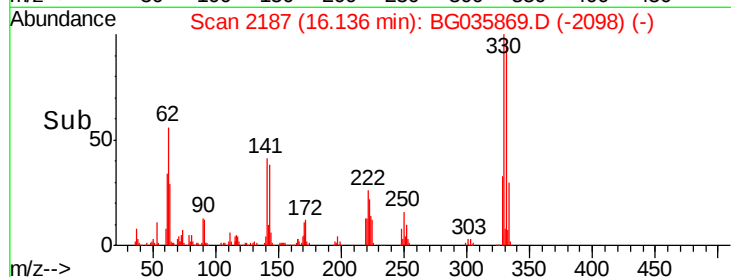
#41  
 2,4,6-Tribromophenol  
 Concen: 135.017 ng  
 RT: 16.14 min Scan# 2187  
 Delta R.T. -0.01 min  
 Lab File: BG035869.D  
 Acq: 25 Jul 2018 11:57

Instrument :  
 BNA\_G  
 ClientSampleId :  
 MDL-WATER-03-QT3-2018

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 93.9  | 77.0  | 115.6 |
| 141     | 39.3  | 25.2  | 37.8# |

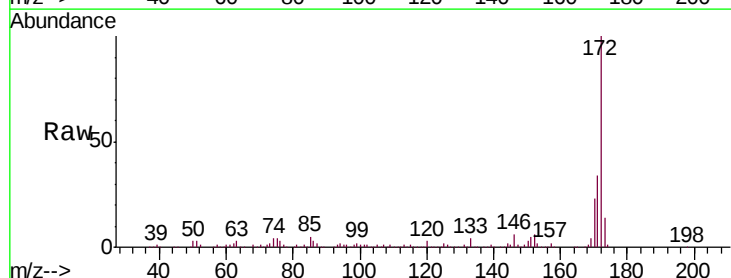


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

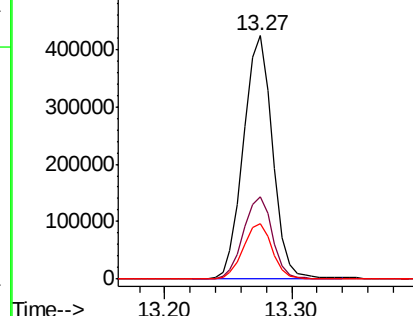
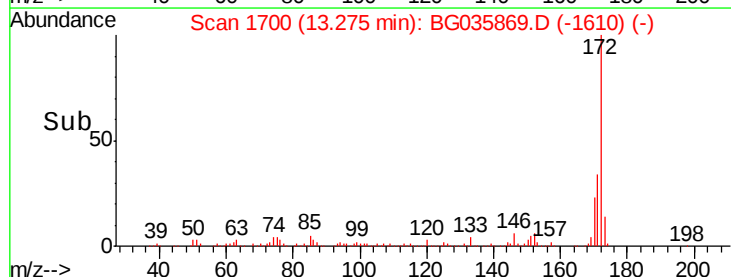


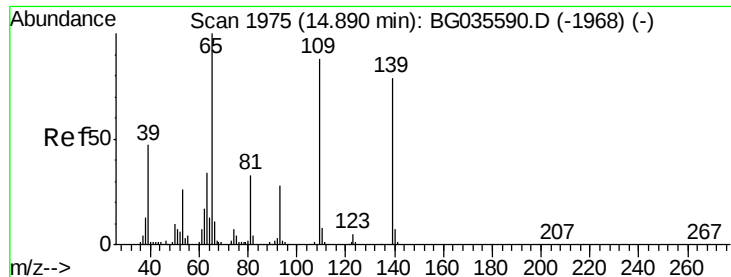
#44  
 2-Fluorobiphenyl  
 Concen: 86.832 ng  
 RT: 13.27 min Scan# 1700  
 Delta R.T. -0.00 min  
 Lab File: BG035869.D  
 Acq: 25 Jul 2018 11:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 33.8  | 30.0  | 45.0  |
| 170     | 23.0  | 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





#55

4-Nitrophenol

Concen: 3.189 ng

RT: 15.05 min Scan# 2002

Delta R.T. 0.18 min

Lab File: BG035869.D

Acq: 25 Jul 2018 11:57

Instrument :

BNA\_G

ClientSampleId :

MDL-WATER-03-QT3-2018

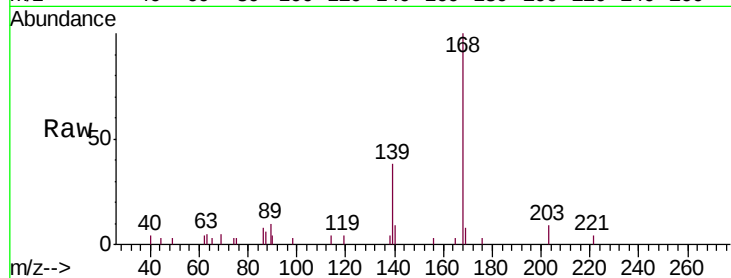
Tgt Ion:139 Resp: 4317

Ion Ratio Lower Upper

139 100

109 0.0 62.2 102.2#

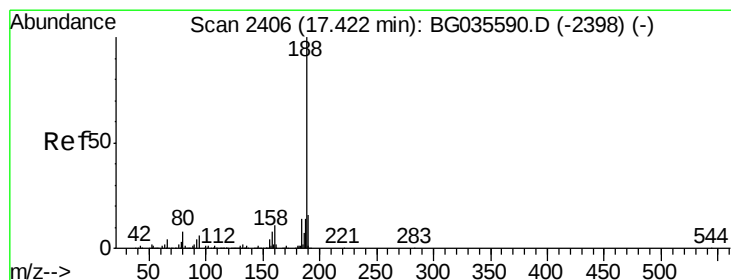
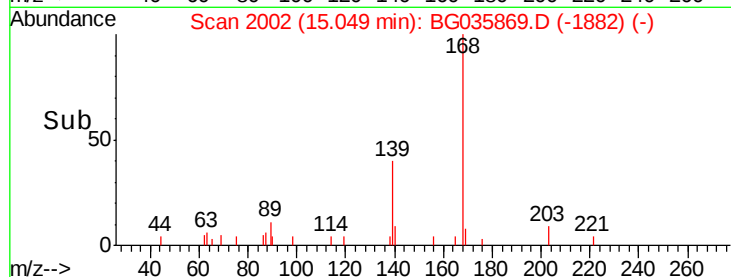
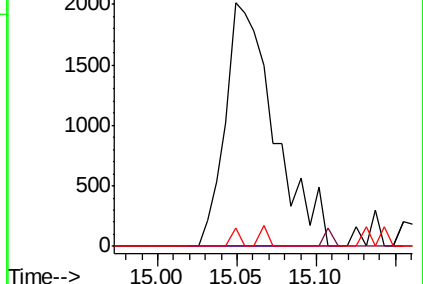
65 7.5 97.2 137.2#



Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BGC



#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.39 min Scan# 2401

Delta R.T. -0.00 min

Lab File: BG035869.D

Acq: 25 Jul 2018 11:57

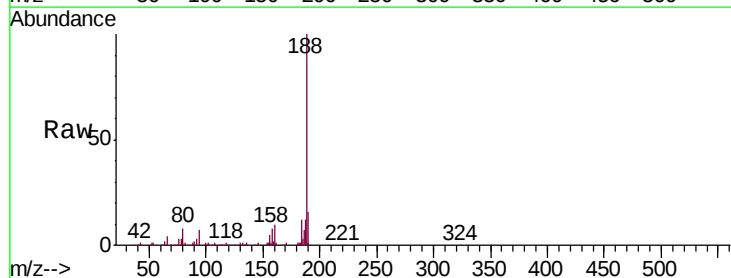
Tgt Ion:188 Resp: 274450

Ion Ratio Lower Upper

188 100

94 7.2 6.9 10.3

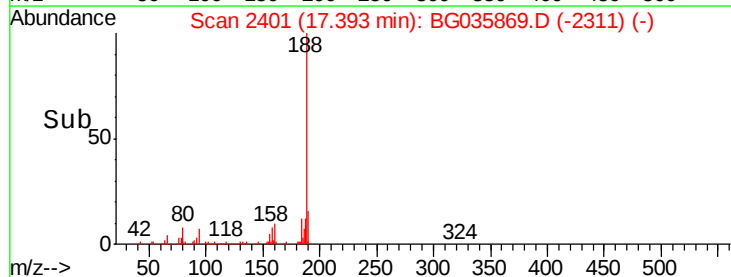
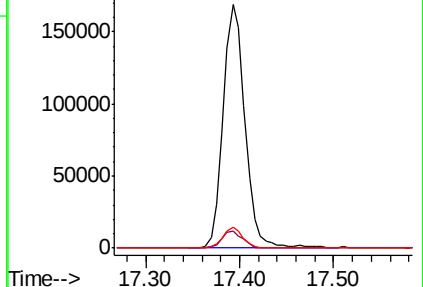
80 8.4 7.7 11.5

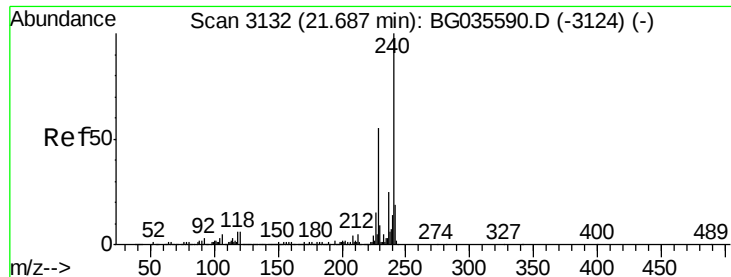


Abundance Ion 188.00 (187.70 to 188.70): E

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: 21.66 min Scan# 3127

Delta R.T. -0.00 min

Lab File: BG035869.D

Acq: 25 Jul 2018 11:57

Instrument :

BNA\_G

ClientSampleId :

MDL-WATER-03-QT3-2018

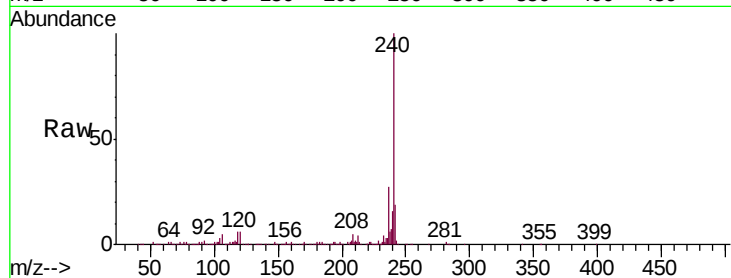
Tgt Ion:240 Resp: 302187

Ion Ratio Lower Upper

240 100

120 6.2 6.8 10.2#

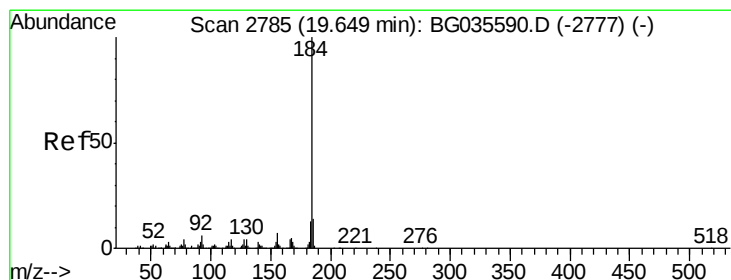
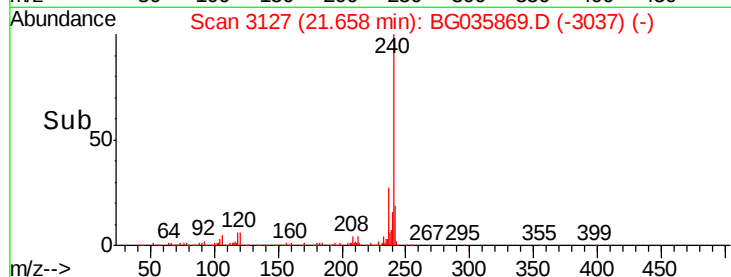
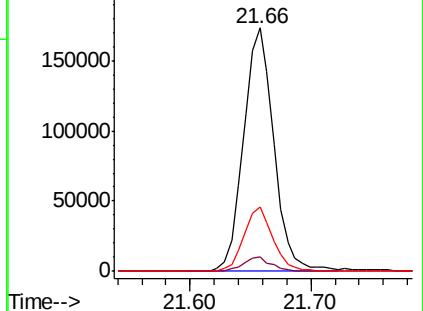
236 26.7 20.9 31.3



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: 3.087 ng

RT: 20.00 min Scan# 2845

Delta R.T. 0.37 min

Lab File: BG035869.D

Acq: 25 Jul 2018 11:57

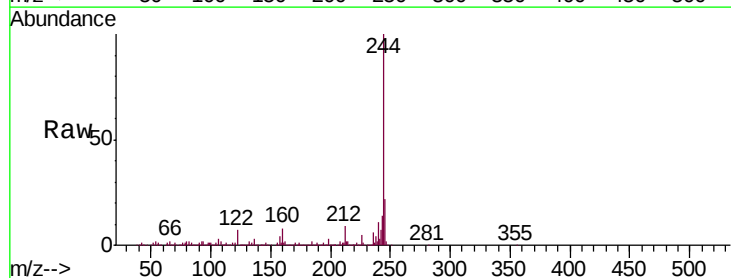
Tgt Ion:184 Resp: 24522

Ion Ratio Lower Upper

184 100

185 14.7 11.1 16.7

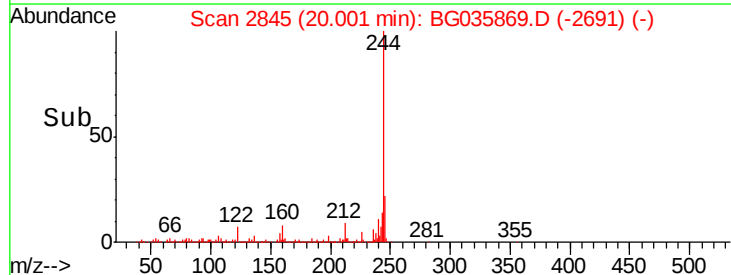
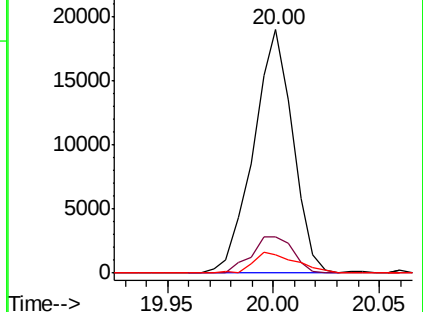
183 7.5 10.6 16.0#

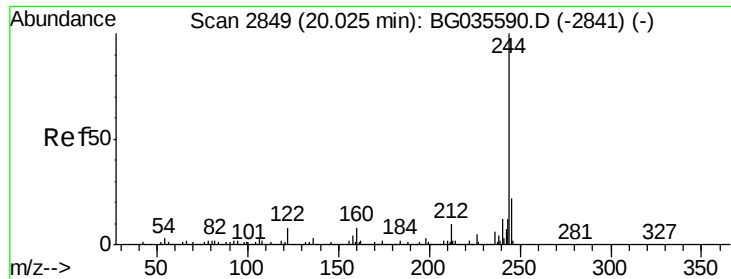


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E





#78

Terphenyl-d14

Concen: 103.764 ng

RT: 20.00 min Scan# 2845

Delta R.T. -0.00 min

Lab File: BG035869.D

Acq: 25 Jul 2018 11:57

Instrument :

BNA\_G

ClientSampleId :

MDL-WATER-03-QT3-2018

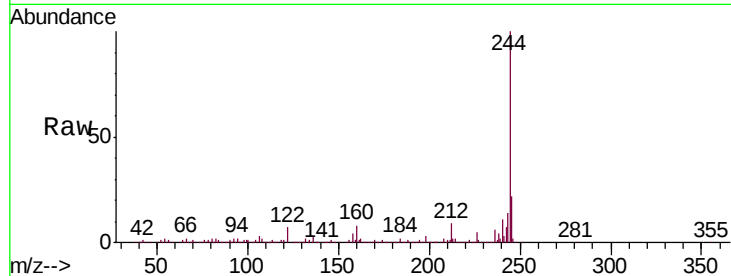
Tgt Ion:244 Resp: 1422504

Ion Ratio Lower Upper

244 100

212 9.3 5.8 8.8#

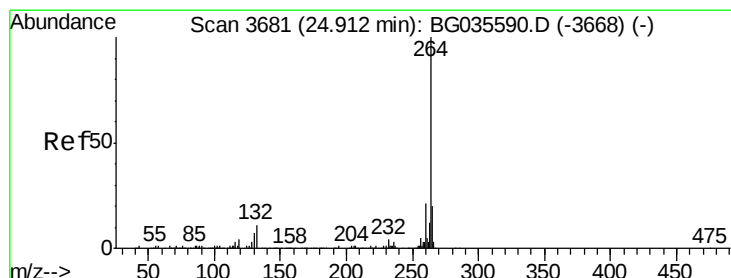
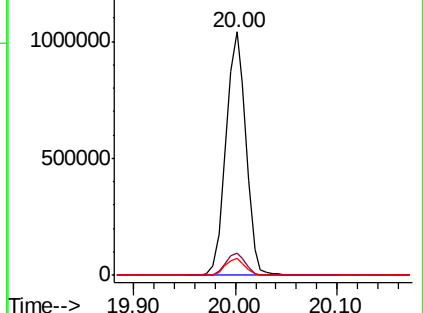
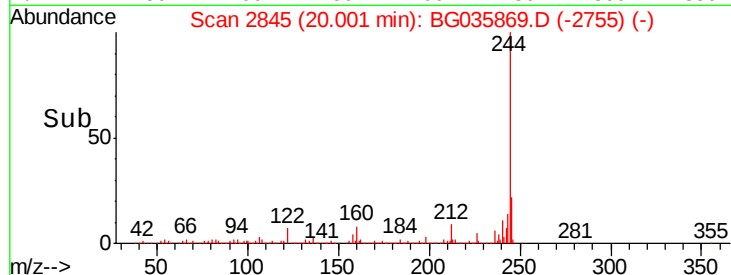
122 6.9 7.0 10.4#



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: 24.85 min Scan# 3671

Delta R.T. -0.01 min

Lab File: BG035869.D

Acq: 25 Jul 2018 11:57

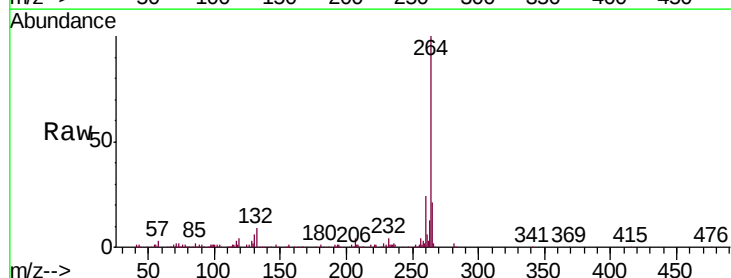
Tgt Ion:264 Resp: 288536

Ion Ratio Lower Upper

264 100

260 23.7 17.4 26.0

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

