

Data Path : Z:\HPCHEM1\BNA M\DATA\BM033117\  
 Data File : BM009493.D  
 Acq On : 01 Apr 2017 02:43  
 Operator : SJ/MA  
 Sample : I2475-06  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 QNWP8-MW24S-GW

Quant Time: Apr 01 03:13:50 2017  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\8270-BM032217.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Mar 31 12:10:26 2017  
 Response via : Initial Calibration

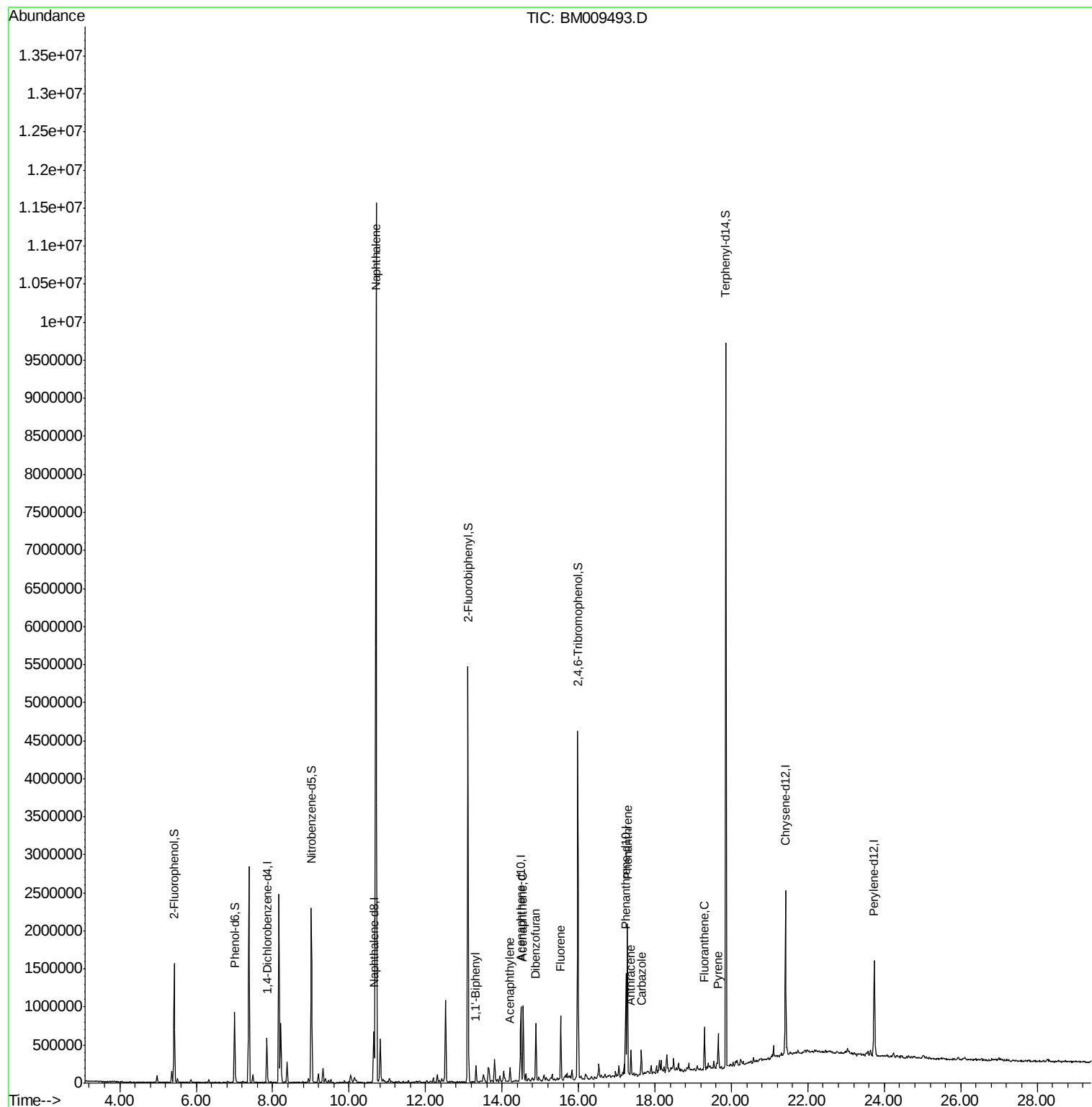
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.85  | 152  | 133555   | 20.00  | ng    | -0.02    |
| 21) Naphthalene-d8          | 10.65 | 136  | 507964   | 20.00  | ng    | -0.02    |
| 38) Acenaphthene-d10        | 14.49 | 164  | 297824   | 20.00  | ng    | -0.02    |
| 63) Phenanthrene-d10        | 17.24 | 188  | 737894   | 20.00  | ng    | -0.01    |
| 75) Chrysene-d12            | 21.42 | 240  | 980493   | 20.00  | ng    | -0.01    |
| 86) Perylene-d12            | 23.74 | 264  | 932761   | 20.00  | ng    | -0.02    |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.42  | 112  | 523102   | 65.29  | ng    | -0.01    |
| 7) Phenol-d6                | 7.00  | 99   | 437363   | 40.03  | ng    | -0.02    |
| 23) Nitrobenzene-d5         | 9.01  | 82   | 1283109  | 94.71  | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol    | 15.99 | 330  | 664964   | 179.73 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl        | 13.10 | 172  | 2478652  | 100.28 | ng    | -0.02    |
| 78) Terphenyl-d14           | 19.86 | 244  | 3820717  | 81.43  | ng    | -0.01    |
| Target Compounds            |       |      |          |        |       | Qvalue   |
| 31) Naphthalene             | 10.70 | 128  | 8380560  | 310.84 | ng    | 99       |
| 45) 1,1'-Biphenyl           | 13.32 | 154  | 91957    | 3.71   | ng    | 93       |
| 48) Acenaphthylene          | 14.21 | 152  | 63927    | 2.04   | ng    | # 96     |
| 51) Acenaphthene            | 14.55 | 154  | 313679   | 16.58  | ng    | 99       |
| 54) Dibenzofuran            | 14.89 | 168  | 406482   | 14.53  | ng    | 96       |
| 57) Fluorene                | 15.54 | 166  | 346576   | 13.78  | ng    | 98       |
| 70) Phenanthrene            | 17.28 | 178  | 1069537  | 25.35  | ng    | 98       |
| 71) Anthracene              | 17.37 | 178  | 201529   | 4.72   | ng    | 99       |
| 72) Carbazole               | 17.65 | 167  | 153466   | 3.75   | ng    | 96       |
| 74) Fluoranthene            | 19.30 | 202  | 326999   | 6.54   | ng    | 98       |
| 77) Pyrene                  | 19.66 | 202  | 267942   | 4.82   | ng    | 98       |

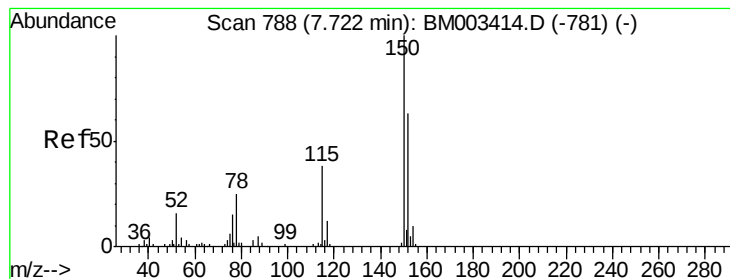
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Mar 31 12:10:26 2017  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.85 min Scan# 809

Delta R.T. -0.02 min

Lab File: BM009493.D

Acq: 01 Apr 2017 02:43

Instrument :

BNA\_M

ClientSampleId :

QNWP8-MW24S-GW

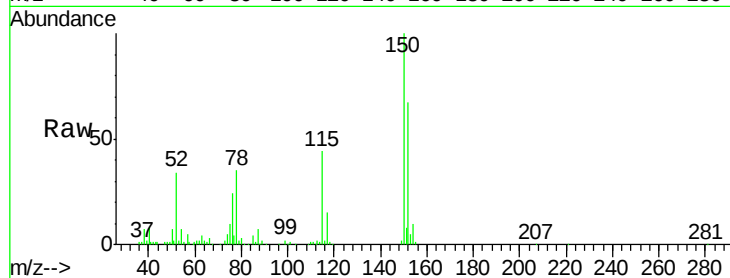
Tot Ion:152 Resp: 133555

Ion Ratio Lower Upper

152 100

150 149.6 119.5 179.3

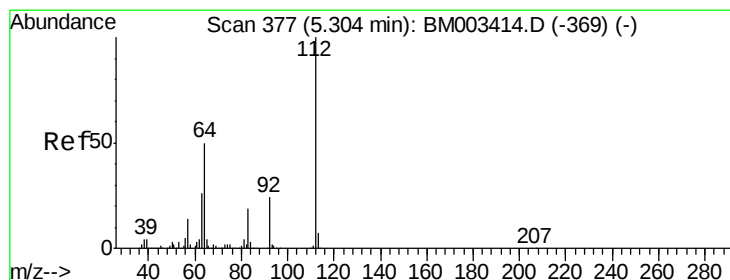
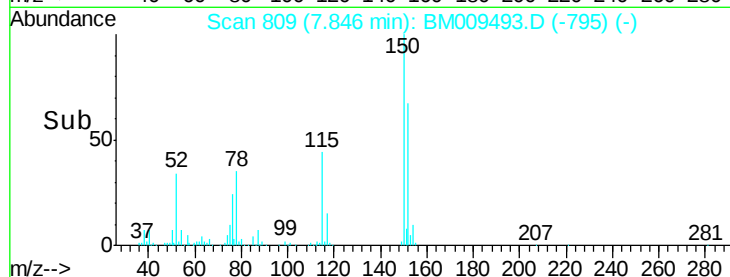
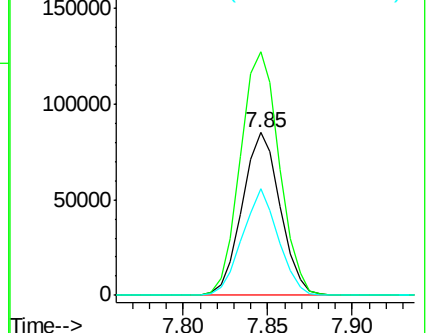
115 65.6 43.0 64.4#



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: 65.29 ng

RT: 5.42 min Scan# 397

Delta R.T. -0.01 min

Lab File: BM009493.D

Acq: 01 Apr 2017 02:43

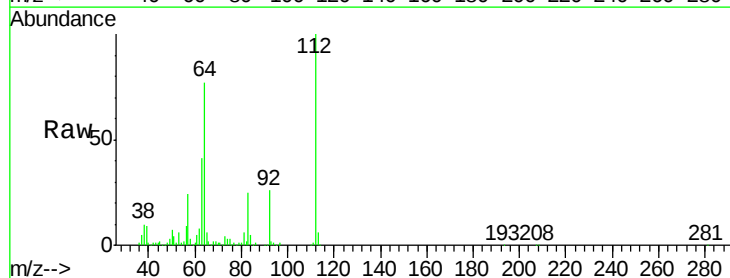
Tgt Ion:112 Resp: 523102

Ion Ratio Lower Upper

112 100

64 76.9 38.6 57.8#

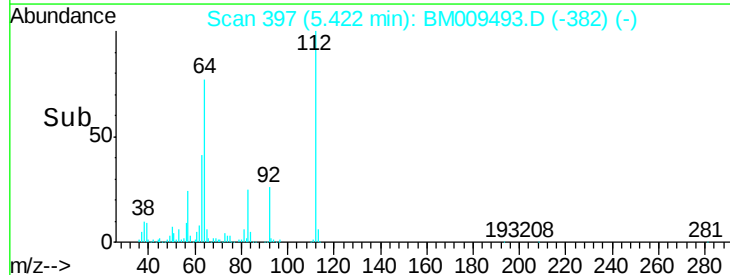
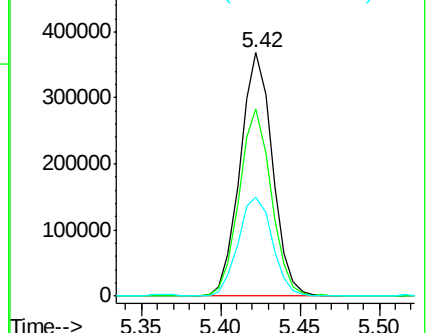
63 40.6 19.3 28.9#

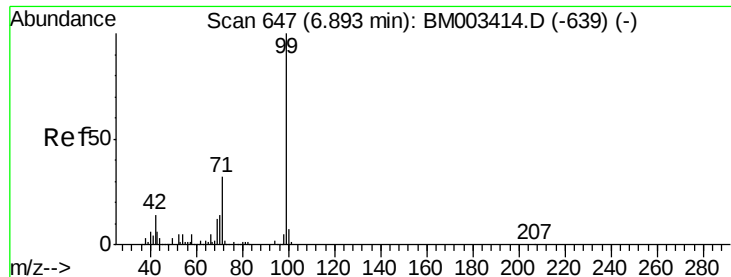


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BM0

Ion 63.00 (62.70 to 63.70): BM0





#7

Phenol-d6

Concen: 40.03 ng

RT: 7.00 min Scan# 666

Delta R.T. -0.02 min

Lab File: BM009493.D

Acq: 01 Apr 2017 02:43

Instrument :

BNA\_M

ClientSampleId :

QNWP8-MW24S-GW

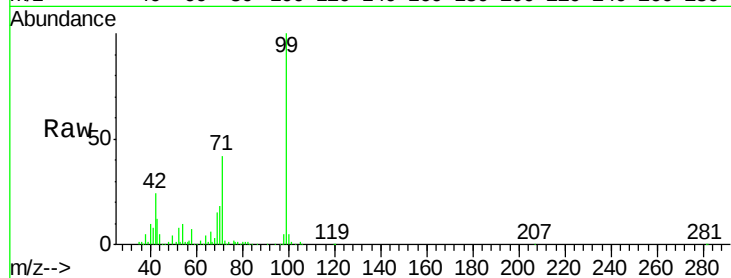
Tot Ion: 99 Resp: 437363

Ion Ratio Lower Upper

99 100

42 23.6 11.0 16.4#

71 41.6 23.4 35.2#

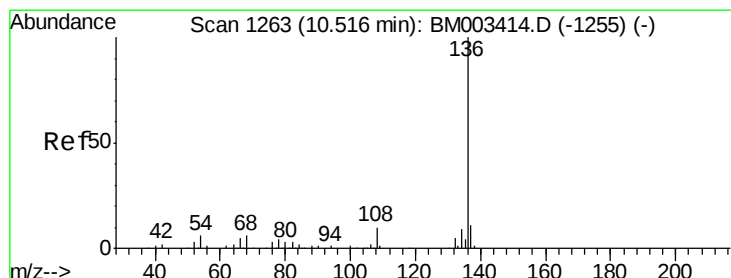
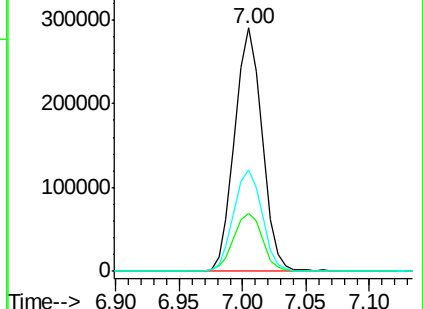
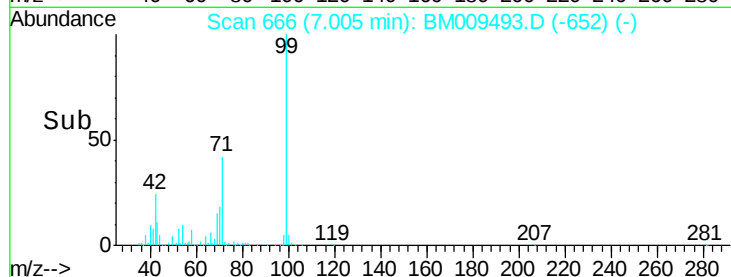


Abundance Ion 99.00 (98.70 to 99.70): BM009493.D (-639) (-)

Ion 42.00 (41.70 to 42.70): BM009493.D (-639) (-)

Ion 71.00 (70.70 to 71.70): BM009493.D (-639) (-)

Time--> 6.90 6.95 7.00 7.05 7.10



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 10.65 min Scan# 1285

Delta R.T. -0.02 min

Lab File: BM009493.D

Acq: 01 Apr 2017 02:43

Tgt Ion: 136 Resp: 507964

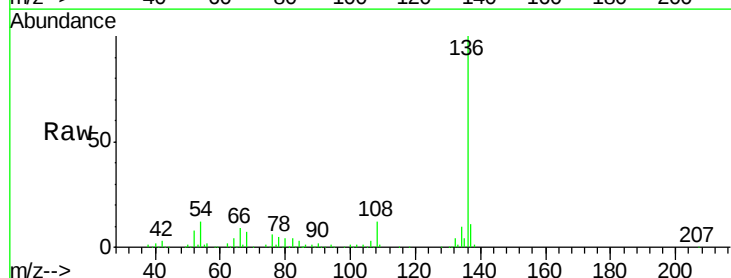
Ion Ratio Lower Upper

136 100

137 10.6 8.7 13.1

54 12.2 4.6 6.8#

68 6.8 3.7 5.5#



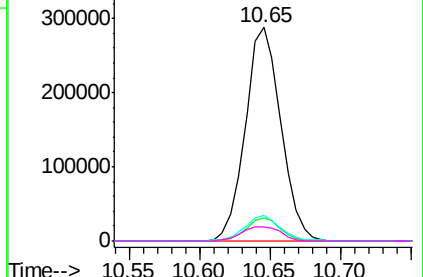
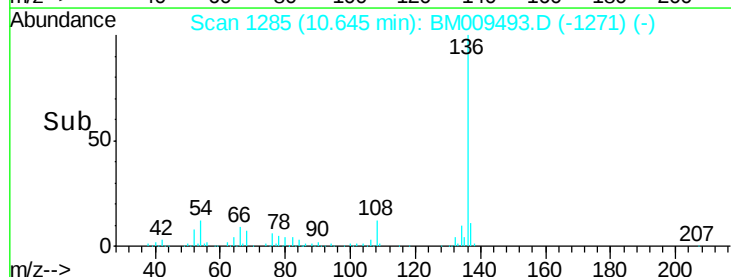
Abundance Ion 136.00 (135.70 to 136.70): BM009493.D (-1271) (-)

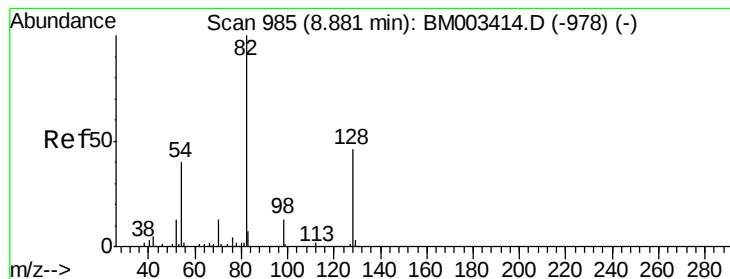
Ion 137.00 (136.70 to 137.70): BM009493.D (-1271) (-)

Ion 54.00 (53.70 to 54.70): BM009493.D (-1271) (-)

Ion 68.00 (67.70 to 68.70): BM009493.D (-1271) (-)

Time--> 10.55 10.60 10.65 10.70





#23

Nitrobenzene-d5

Concen: 94.71 ng

RT: 9.01 min Scan# 1007

Delta R.T. -0.02 min

Lab File: BM009493.D

Acq: 01 Apr 2017 02:43

Instrument :

BNA\_M

ClientSampleId :

QNWP8-MW24S-GW

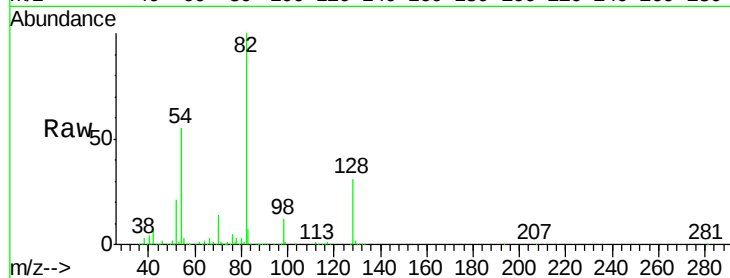
Tot Ion: 82 Resp: 1283109

Ion Ratio Lower Upper

82 100

128 30.7 32.8 49.2#

54 55.3 40.6 60.8

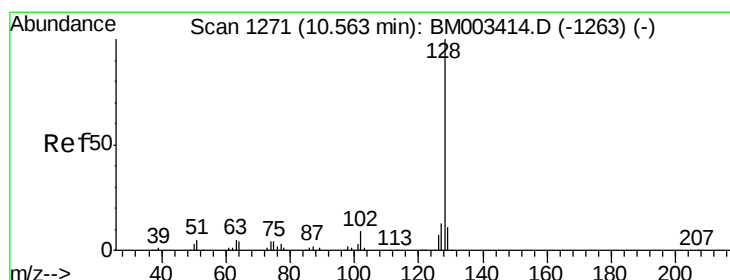
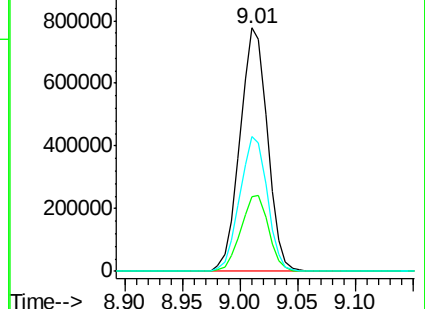
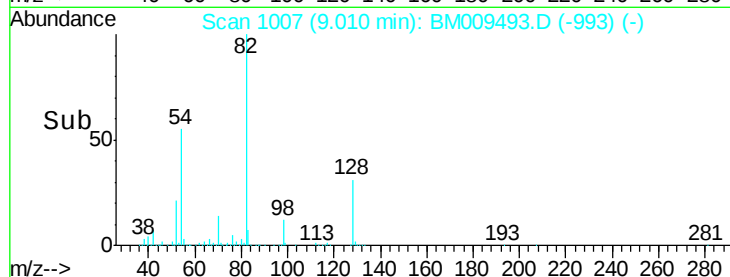


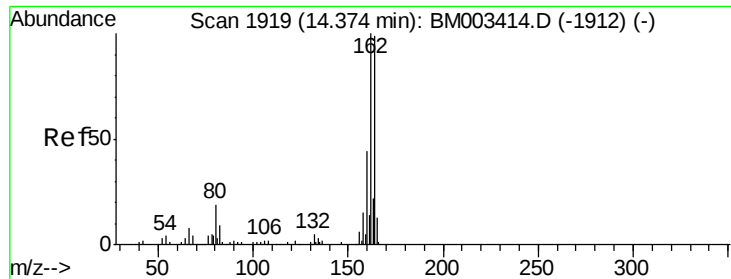
Abundance Ion 82.00 (81.70 to 82.70): BM009493.D (-993) (-)

Ion 128.00 (127.70 to 128.70): BM009493.D (-993) (-)

Ion 54.00 (53.70 to 54.70): BM009493.D (-993) (-)

Time-->





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 14.49 min Scan# 1938

Delta R.T. -0.02 min

Lab File: BM009493.D

Acq: 01 Apr 2017 02:43

Instrument :

BNA\_M

ClientSampleId :

QNWP8-MW24S-GW

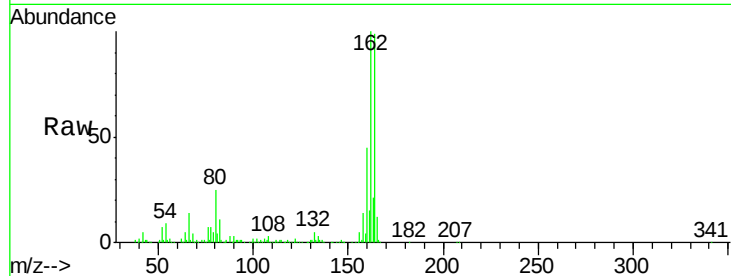
Tot Ion:164 Resp: 297824

Ion Ratio Lower Upper

164 100

162 101.0 82.4 123.6

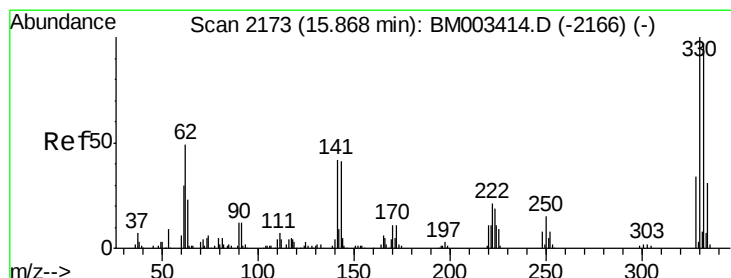
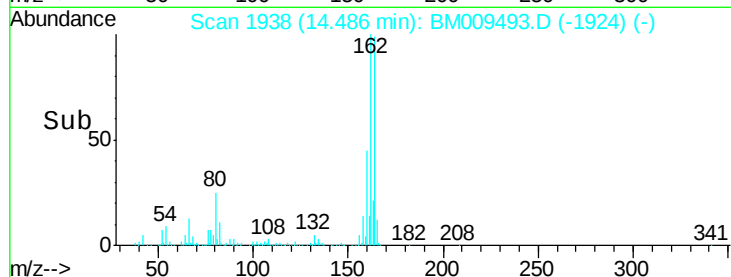
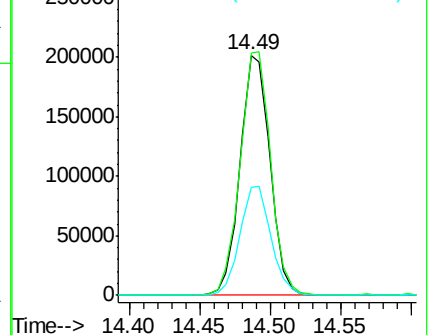
160 45.2 35.8 53.6



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: 179.73 ng

RT: 15.99 min Scan# 2193

Delta R.T. -0.01 min

Lab File: BM009493.D

Acq: 01 Apr 2017 02:43

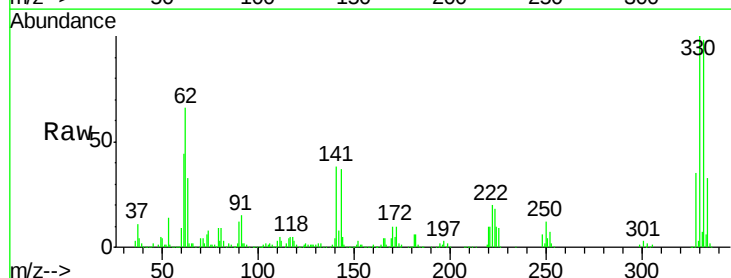
Tgt Ion:330 Resp: 664964

Ion Ratio Lower Upper

330 100

332 96.6 0.0 0.0#

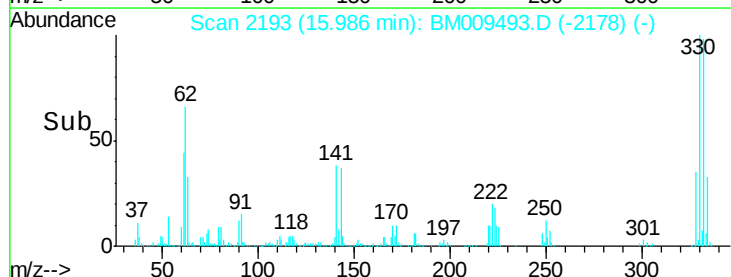
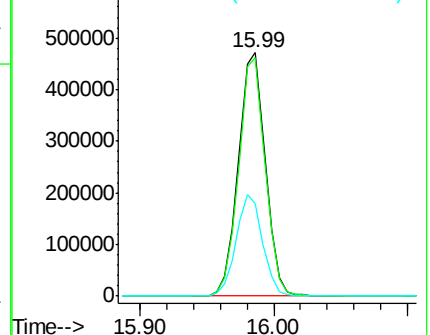
141 40.9 0.0 0.0#

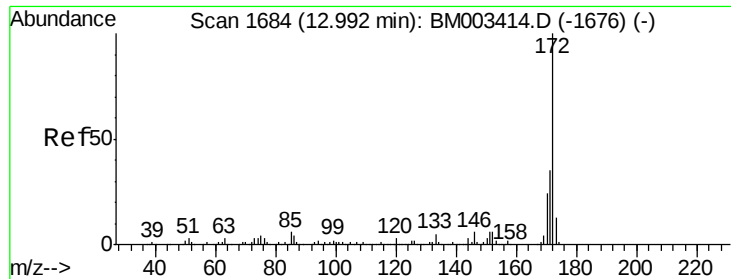


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

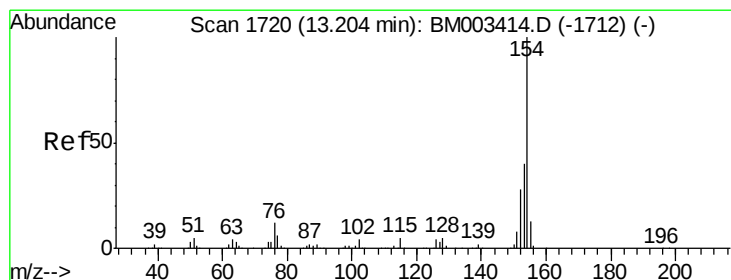
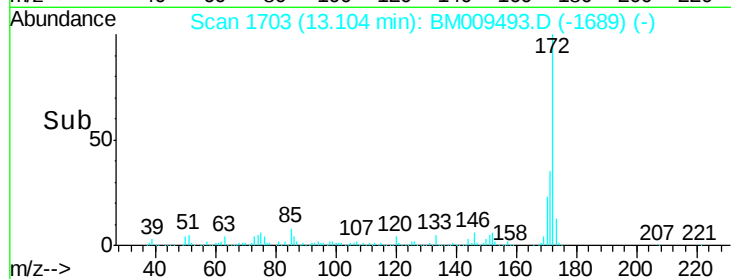
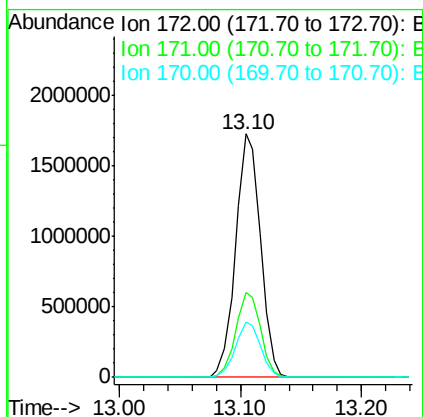
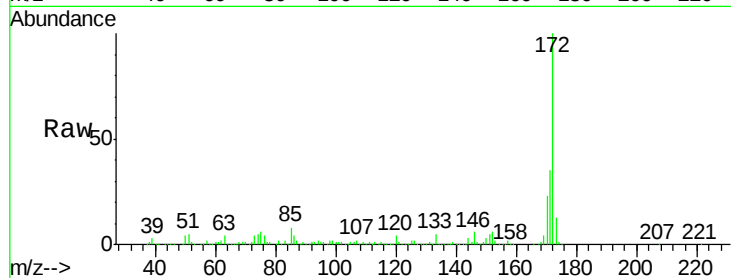




#44  
2-Fluorobiphenyl  
Concen: 100.28 ng  
RT: 13.10 min Scan# 1703  
Delta R.T. -0.02 min  
Lab File: BM009493.D  
Acq: 01 Apr 2017 02:43

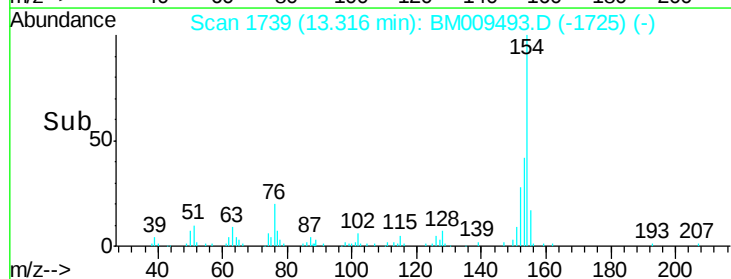
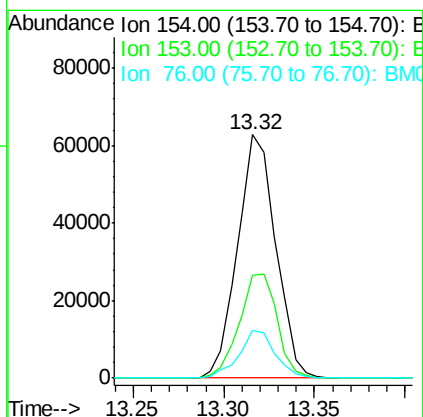
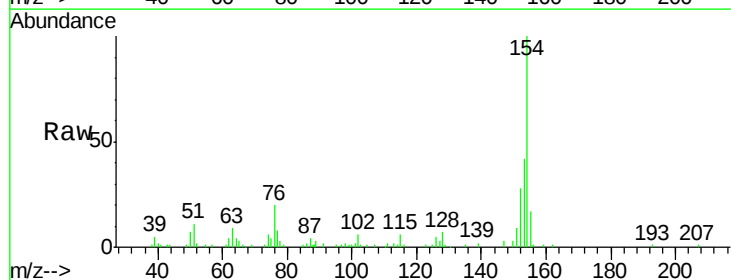
Instrument :  
BNA\_M  
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QNWP8-MW24S-GW

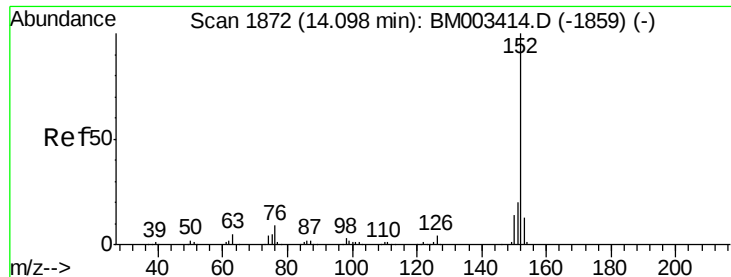
Tot Ion:172 Resp: 2478652  
Ion Ratio Lower Upper  
172 100  
171 35.0 28.5 42.7  
170 22.7 18.8 28.2



#45  
1,1'-Biphenyl  
Concen: 3.71 ng  
RT: 13.32 min Scan# 1739  
Delta R.T. -0.02 min  
Lab File: BM009493.D  
Acq: 01 Apr 2017 02:43

Tgt Ion:154 Resp: 91957  
Ion Ratio Lower Upper  
154 100  
153 42.3 20.7 60.7  
76 19.5 0.0 30.9





#48

Acenaphthylene

Concen: 2.04 ng

RT: 14.21 min Scan# 1891

Delta R.T. -0.02 min

Lab File: BM009493.D

Acq: 01 Apr 2017 02:43

Instrument :

BNA\_M

ClientSampleId :

QNWP8-MW24S-GW

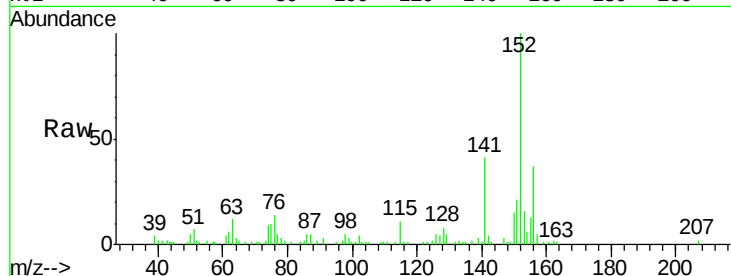
Tot Ion:152 Resp: 63927

Ion Ratio Lower Upper

152 100

151 20.6 15.9 23.9

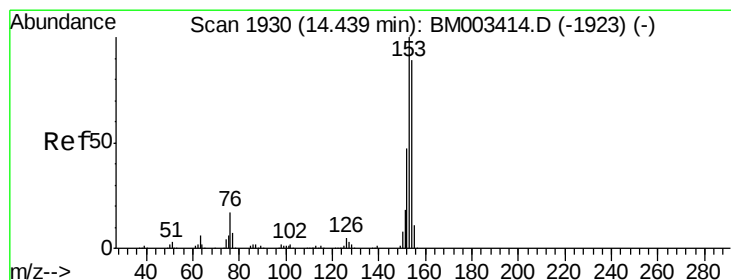
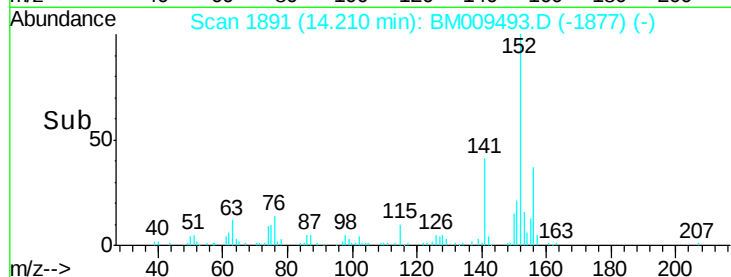
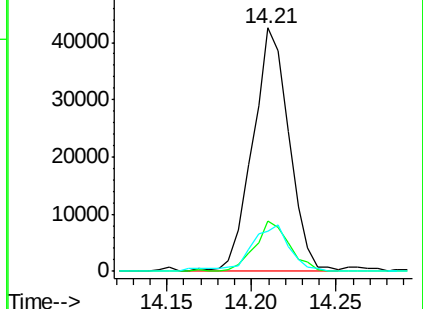
153 16.3 10.6 16.0#



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#51

Acenaphthene

Concen: 16.58 ng

RT: 14.55 min Scan# 1949

Delta R.T. -0.02 min

Lab File: BM009493.D

Acq: 01 Apr 2017 02:43

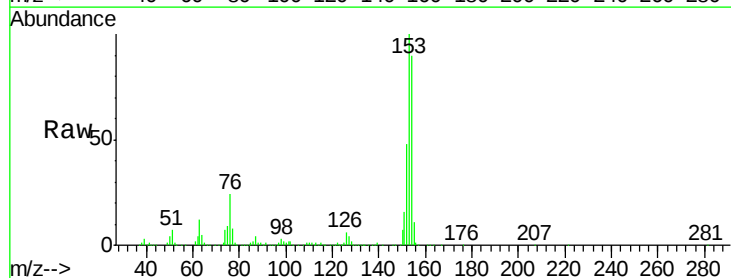
Tgt Ion:154 Resp: 313679

Ion Ratio Lower Upper

154 100

153 111.2 90.0 135.0

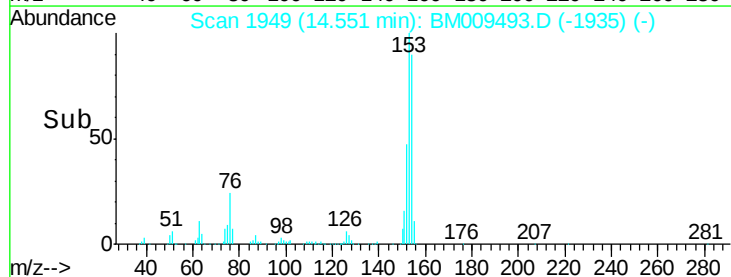
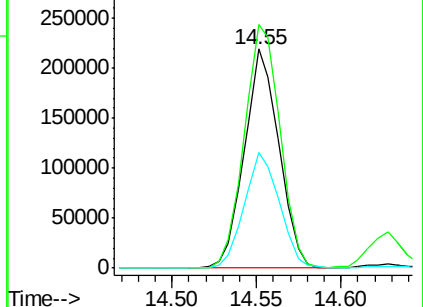
152 52.9 42.6 63.8

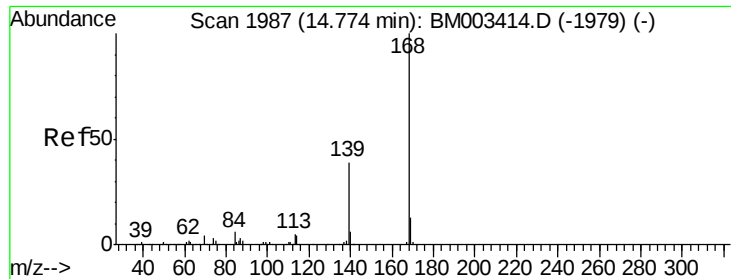


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#54

Dibenzenofuran

Concen: 14.53 ng

RT: 14.89 min Scan# 2006

Delta R.T. -0.02 min

Lab File: BM009493.D

Acq: 01 Apr 2017 02:43

Instrument :

BNA\_M

ClientSampleId :

QNWP8-MW24S-GW

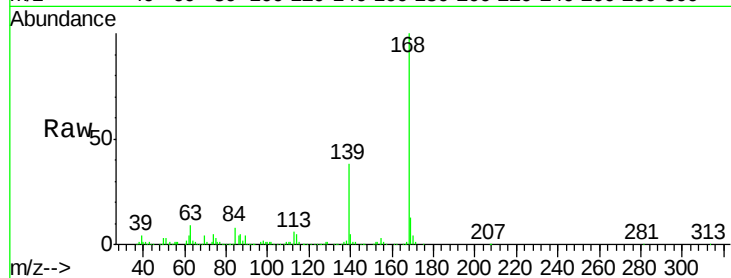
Tot Ion:168 Resp: 406482

Ion Ratio Lower Upper

168 100

139 37.5 27.3 40.9

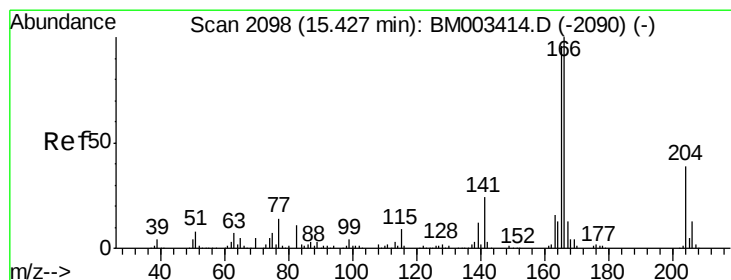
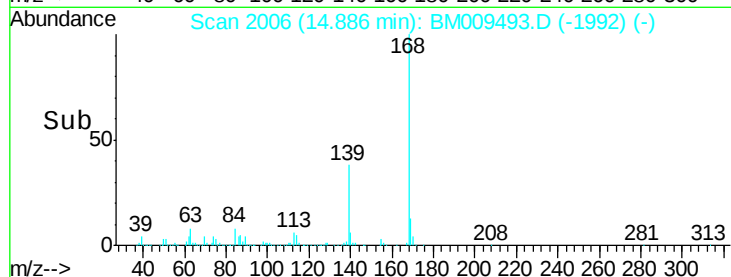
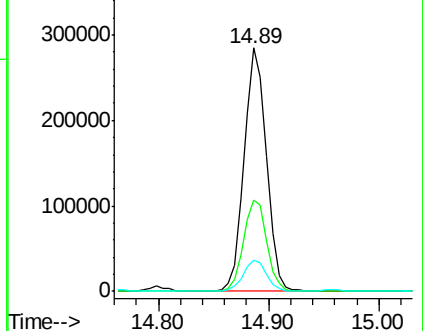
169 13.1 10.6 16.0



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E



#57

Fluorene

Concen: 13.78 ng

RT: 15.54 min Scan# 2117

Delta R.T. -0.01 min

Lab File: BM009493.D

Acq: 01 Apr 2017 02:43

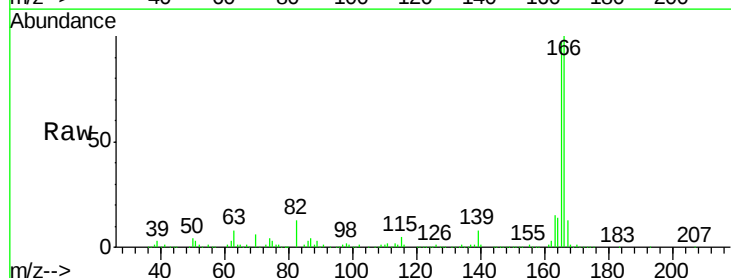
Tgt Ion:166 Resp: 346576

Ion Ratio Lower Upper

166 100

165 96.7 79.0 118.4

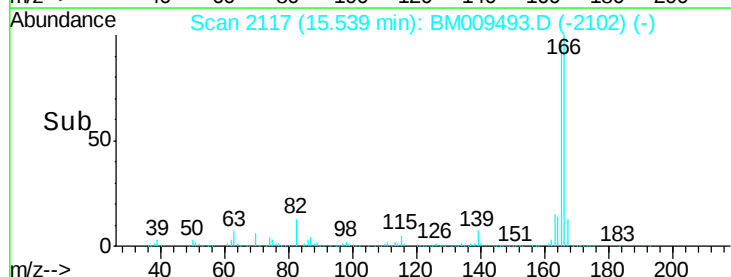
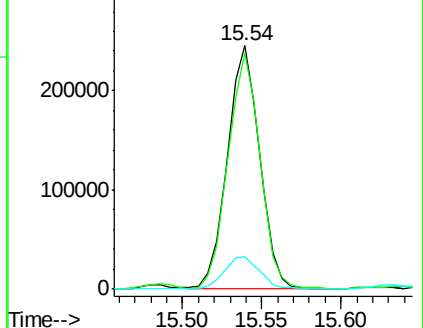
167 13.3 10.3 15.5

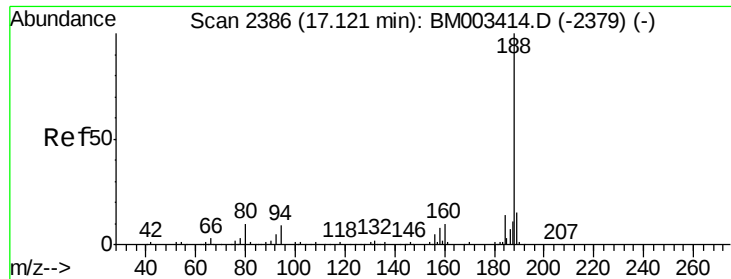


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

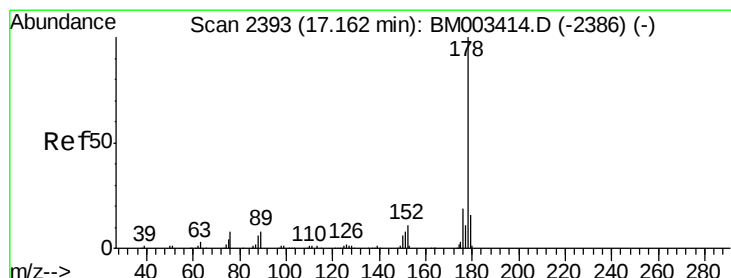
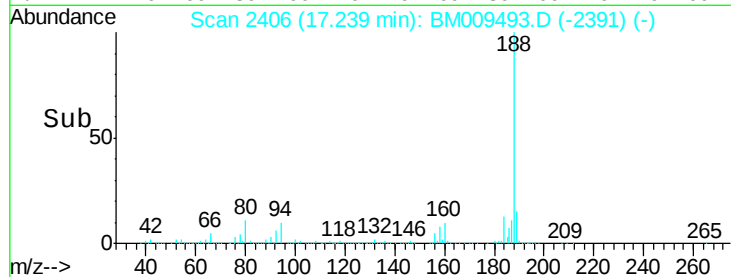
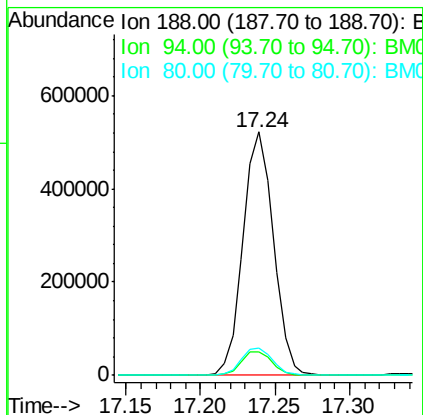
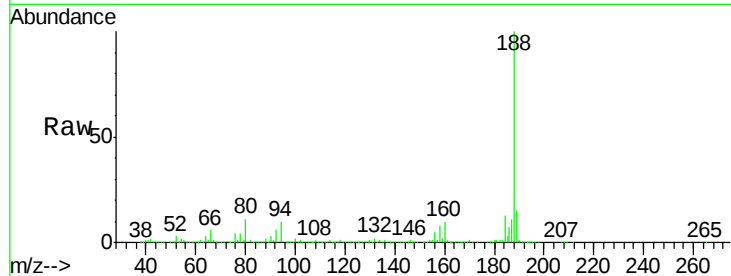




#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 17.24 min Scan# 2406  
Delta R.T. -0.01 min  
Lab File: BM009493.D  
Acq: 01 Apr 2017 02:43

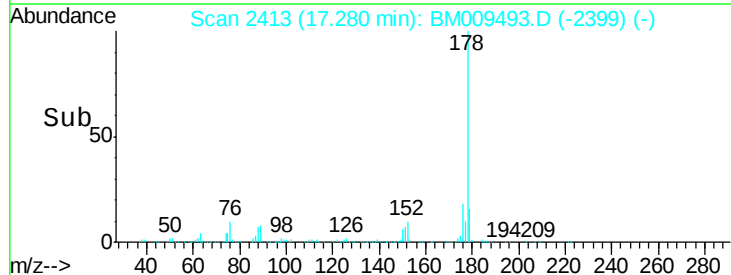
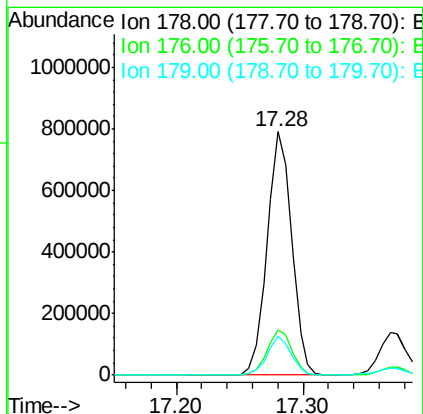
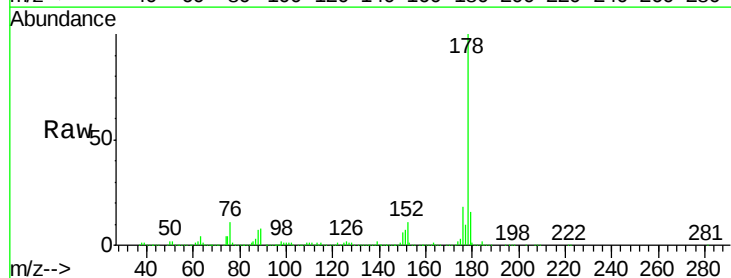
Instrument :  
BNA\_M  
ClientSampleId :  
QNWP8-MW24S-GW

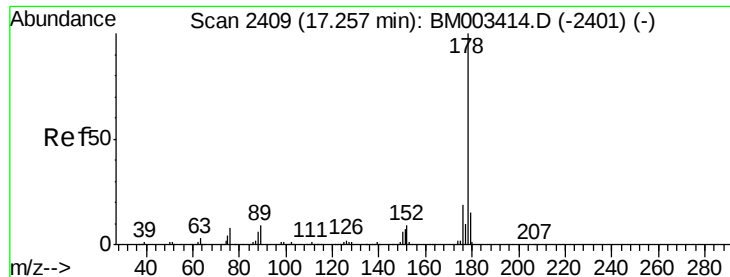
Tot Ion:188 Resp: 737894  
Ion Ratio Lower Upper  
188 100  
94 9.7 8.7 13.1  
80 11.1 9.3 13.9



#70  
Phenanthrene  
Concen: 25.35 ng  
RT: 17.28 min Scan# 2413  
Delta R.T. -0.02 min  
Lab File: BM009493.D  
Acq: 01 Apr 2017 02:43

Tgt Ion:178 Resp: 1069537  
Ion Ratio Lower Upper  
178 100  
176 18.5 15.2 22.8  
179 16.0 12.1 18.1

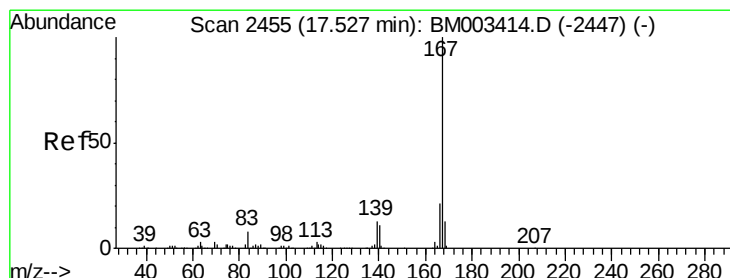
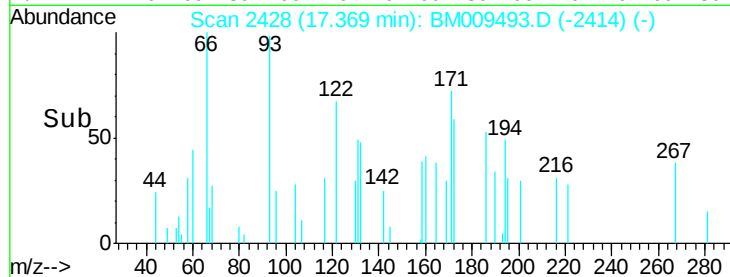
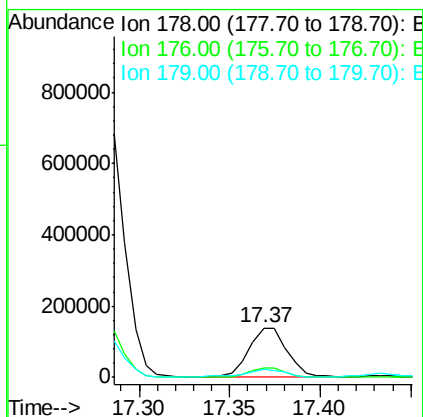
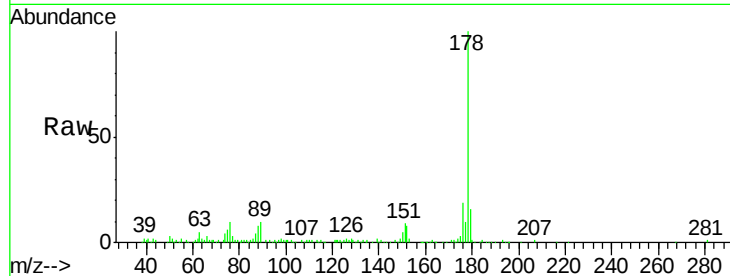




#71  
 Anthracene  
 Concen: 4.72 ng  
 RT: 17.37 min Scan# 2428  
 Delta R.T. -0.02 min  
 Lab File: BM009493.D  
 Acq: 01 Apr 2017 02:43

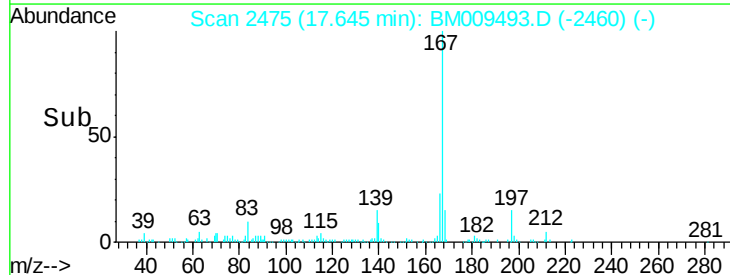
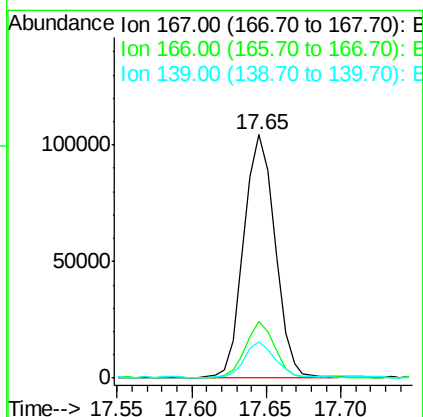
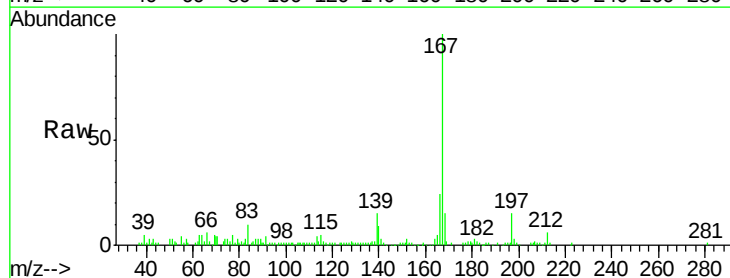
Instrument :  
 BNA\_M  
 ClientSampleId :  
 QNWP8-MW24S-GW

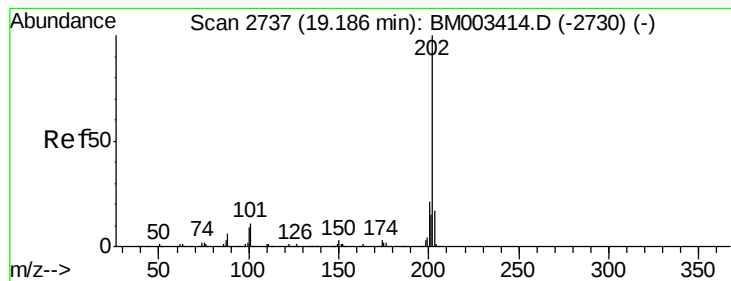
Tot Ion:178 Resp: 201529  
 Ion Ratio Lower Upper  
 178 100  
 176 18.5 14.6 22.0  
 179 16.5 12.6 19.0



#72  
 Carbazole  
 Concen: 3.75 ng  
 RT: 17.65 min Scan# 2475  
 Delta R.T. -0.01 min  
 Lab File: BM009493.D  
 Acq: 01 Apr 2017 02:43

Tgt Ion:167 Resp: 153466  
 Ion Ratio Lower Upper  
 167 100  
 166 23.6 17.2 25.8  
 139 15.1 10.8 16.2





#74

Fluoranthene

Concen: 6.54 ng

RT: 19.30 min Scan# 2756

Delta R.T. -0.01 min

Lab File: BM009493.D

Acq: 01 Apr 2017 02:43

Instrument :

BNA\_M

ClientSampleId :

QNWP8-MW24S-GW

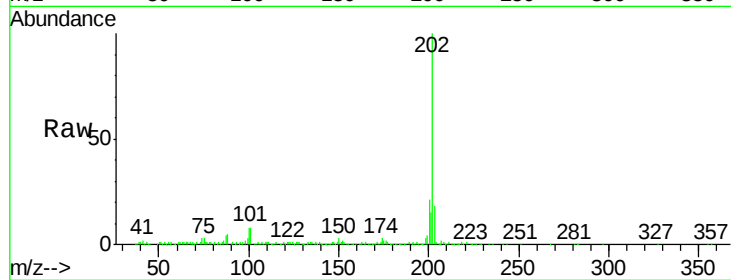
Tot Ion:202 Resp: 326999

Ion Ratio Lower Upper

202 100

101 7.9 0.0 28.7

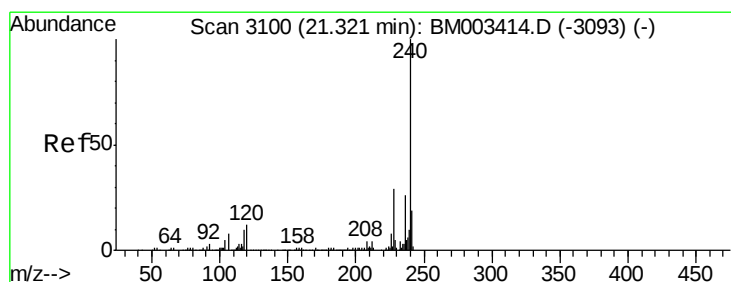
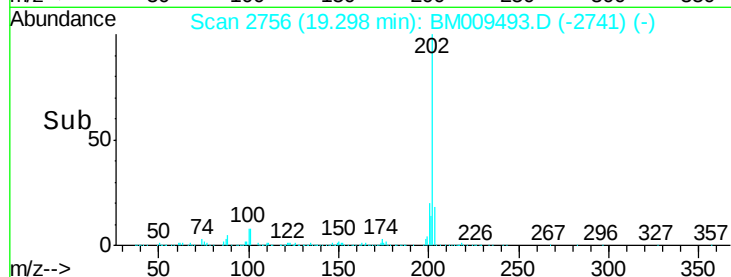
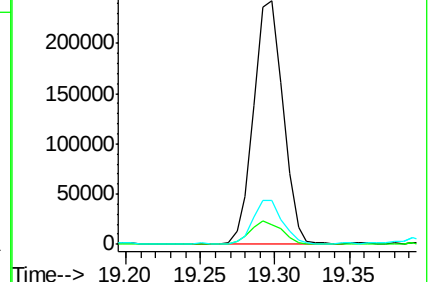
203 17.8 0.0 37.2



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.00 ng

RT: 21.42 min Scan# 3116

Delta R.T. -0.01 min

Lab File: BM009493.D

Acq: 01 Apr 2017 02:43

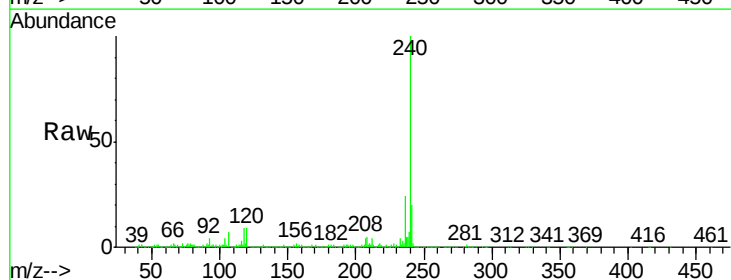
Tgt Ion:240 Resp: 980493

Ion Ratio Lower Upper

240 100

120 9.0 8.2 12.2

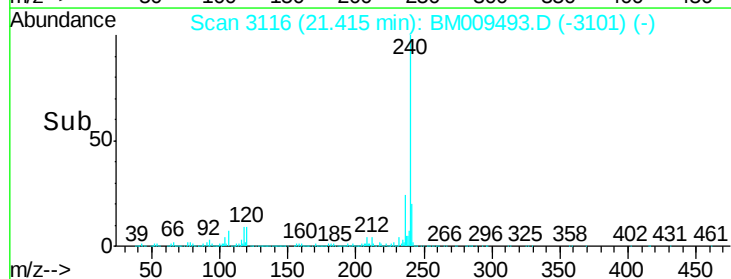
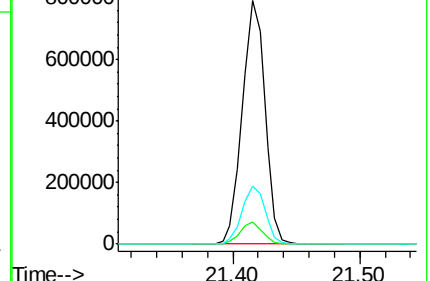
236 23.9 20.0 30.0

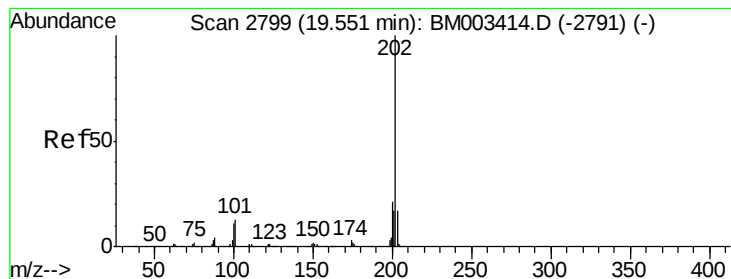


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 4.82 ng

RT: 19.66 min Scan# 2817

Delta R.T. -0.02 min

Lab File: BM009493.D

Acq: 01 Apr 2017 02:43

Instrument :

BNA\_M

ClientSampleId :

QNWP8-MW24S-GW

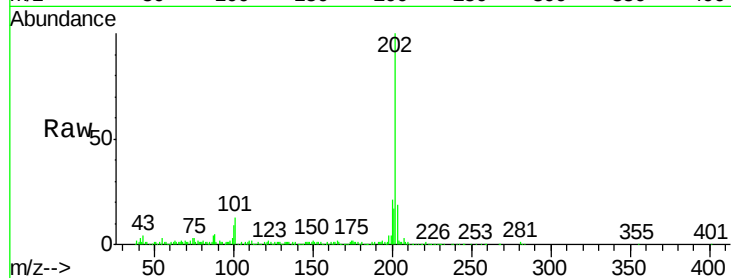
Tot Ion:202 Resp: 267942

Ion Ratio Lower Upper

202 100

200 20.9 16.9 25.3

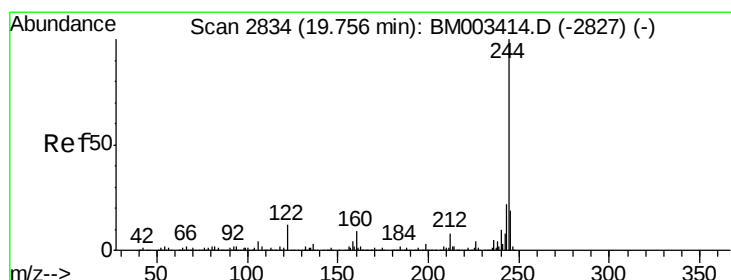
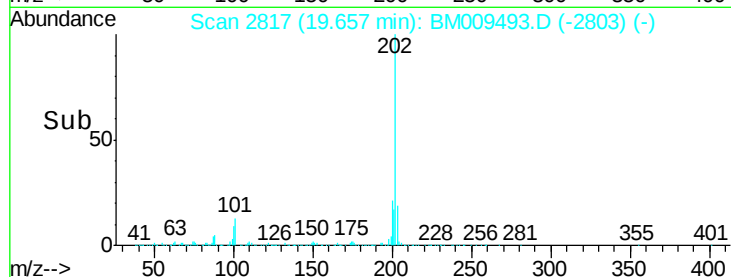
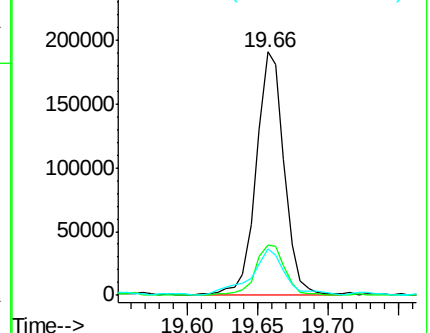
203 18.9 14.1 21.1



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 81.43 ng

RT: 19.86 min Scan# 2851

Delta R.T. -0.01 min

Lab File: BM009493.D

Acq: 01 Apr 2017 02:43

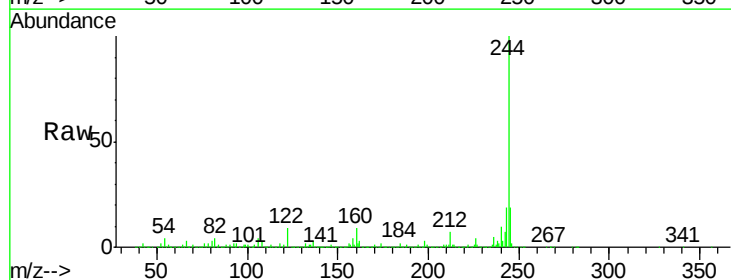
Tgt Ion:244 Resp: 3820717

Ion Ratio Lower Upper

244 100

212 7.2 4.9 7.3

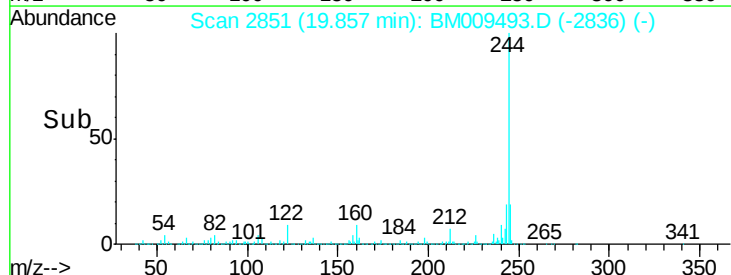
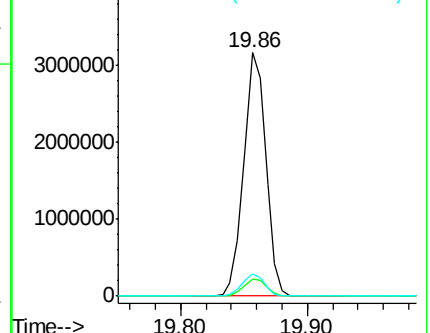
122 9.0 6.2 9.4

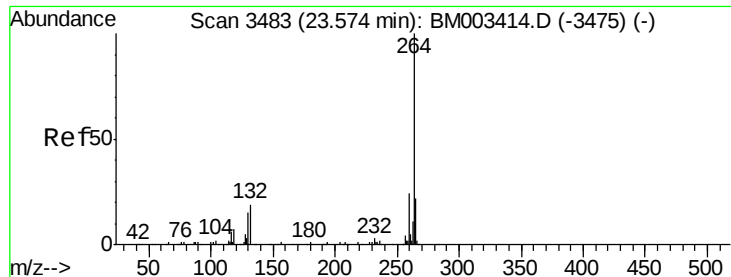


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

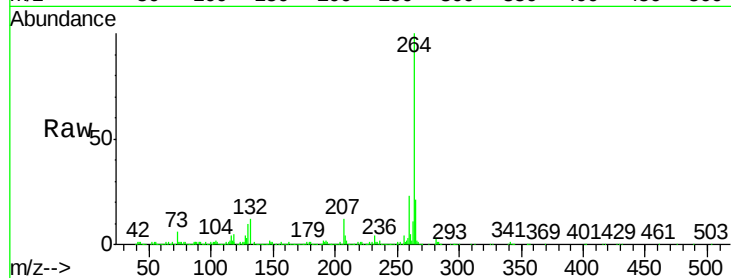




#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 23.74 min Scan# 3511  
Delta R.T. -0.02 min  
Lab File: BM009493.D  
Acq: 01 Apr 2017 02:43

Instrument :  
BNA\_M  
ClientSampleId :  
QNWP8-MW24S-GW

Tot Ion:264 Resp: 932761  
Ion Ratio Lower Upper  
264 100  
260 22.5 18.6 27.8  
265 21.3 17.3 25.9



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

