

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM012117\  
 Data File : BM008782.D  
 Acq On : 21 Jan 2017 21:17  
 Operator : UM/SJ  
 Sample : I1323-19  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 DA9R1

Quant Time: Jan 23 03:57:45 2017  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM010617.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Mon Jan 23 03:51:57 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.95  | 152  | 59278    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.76 | 136  | 257777   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.59 | 164  | 263645   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.33 | 188  | 627459   | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.49 | 240  | 824875   | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 23.84 | 264  | 701009   | 20.00 | ng/ul | -0.01    |

## System Monitoring Compounds

|                                |       |     |         |       |       |      |
|--------------------------------|-------|-----|---------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.40  | 96  | 1758    | 1.37  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.10  | 99  | 32985   | 6.77  | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.28  | 67  | 126468  | 38.27 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.48  | 132 | 88473   | 26.09 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.65  | 113 | 61984   | 16.41 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.12  | 128 | 55289   | 34.76 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.83  | 143 | 65714   | 38.01 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.37 | 165 | 126504  | 31.78 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.93 | 131 | 343     | 0.08  | ng/ul | 0.04 |
| 43) Dimethylphthalate-d6       | 13.99 | 166 | 609152  | 35.02 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.28 | 160 | 737529  | 35.96 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.80 | 143 | 98484   | 34.62 | ng/ul | 0.04 |
| 57) Fluorene-d10               | 15.57 | 176 | 565081  | 35.23 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.69 | 200 | 166798  | 51.57 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.42 | 188 | 984170  | 36.41 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.71 | 212 | 1260045 | 34.67 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 23.70 | 264 | 1051745 | 36.78 | ng/ul | 0.00 |

## Target Compounds

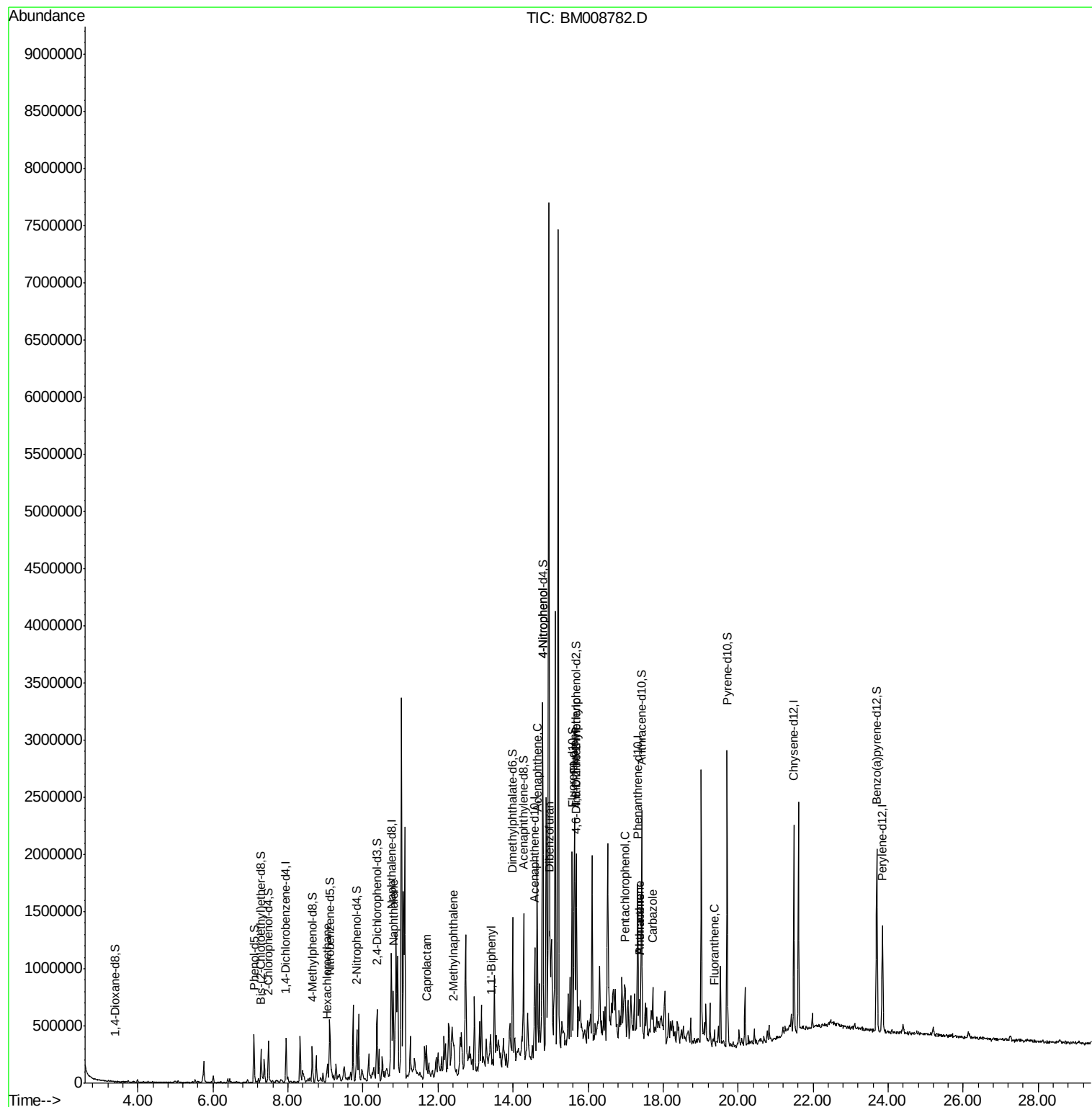
|                                |       |     |        |       |        | Qvalue |
|--------------------------------|-------|-----|--------|-------|--------|--------|
| 17) Hexachloroethane           | 9.06  | 117 | 7695   | 4.18  | ng/ul# | 4      |
| 28) Naphthalene                | 10.81 | 128 | 399879 | 33.94 | ng/ul  | 98     |
| 32) Caprolactam                | 11.69 | 113 | 2052   | 1.70  | ng/ul# | 1      |
| 34) 2-Methylnaphthalene        | 12.41 | 142 | 66277  | 7.26  | ng/ul  | 94     |
| 40) 1,1'-Biphenyl              | 13.42 | 154 | 24157  | 1.46  | ng/ul  | 90     |
| 49) Acenaphthene               | 14.64 | 153 | 152893 | 10.99 | ng/ul  | 95     |
| 52) 4-Nitrophenol              | 14.79 | 109 | 4805   | 1.02  | ng/ul  | 83     |
| 53) Dibenzofuran               | 14.98 | 168 | 473426 | 22.36 | ng/ul  | 89     |
| 58) Fluorene                   | 15.63 | 166 | 402439 | 23.19 | ng/ul  | 96     |
| 63) 4,6-Dinitro-2-methylphenol | 15.70 | 198 | 155528 | 45.47 | ng/ul# | 70     |
| 68) Pentachlorophenol          | 16.97 | 266 | 11069  | 2.42  | ng/ul# | 86     |
| 69) Phenanthrene               | 17.37 | 178 | 117122 | 3.88  | ng/ul  | 97     |
| 71) Anthracene                 | 17.37 | 178 | 119617 | 3.85  | ng/ul  | 97     |
| 72) Carbazole                  | 17.73 | 167 | 214903 | 7.78  | ng/ul# | 93     |
| 74) Fluoranthene               | 19.37 | 202 | 60924  | 1.57  | ng/ul# | 93     |

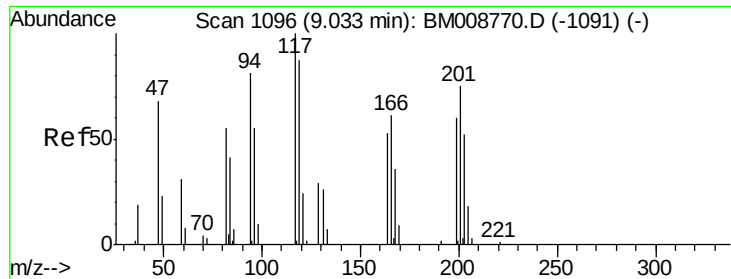
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SVOA CALIBRATION  
QLast Update : Mon Jan 23 03:51:57 2017  
Response via : Initial Calibration





#17

Hexachloroethane

Concen: 4.18 ng/ul

RT: 9.06 min Scan# 1100

Delta R.T. 0.02 min

Lab File: BM008782.D

Acq: 21 Jan 2017 21:17

Instrument :

BNA\_M

ClientSampled :

DA9R1

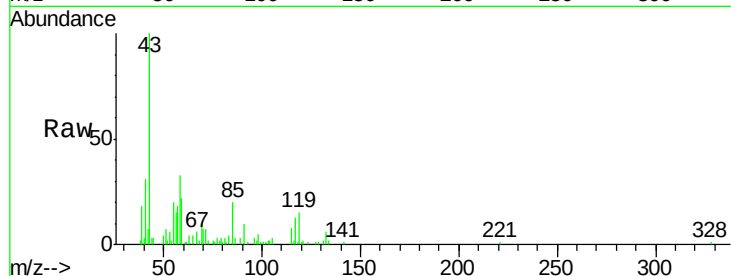
Tgt Ion:117 Resp: 7695

Ion Ratio Lower Upper

117 100

201 0.0 85.4 128.2#

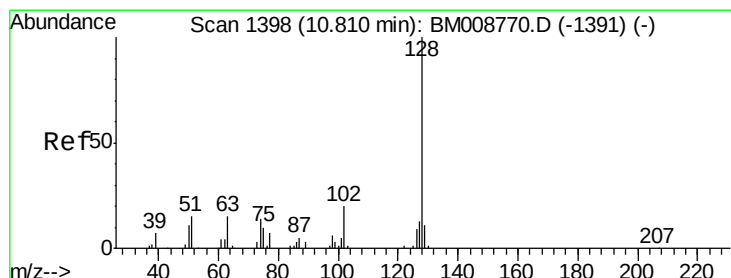
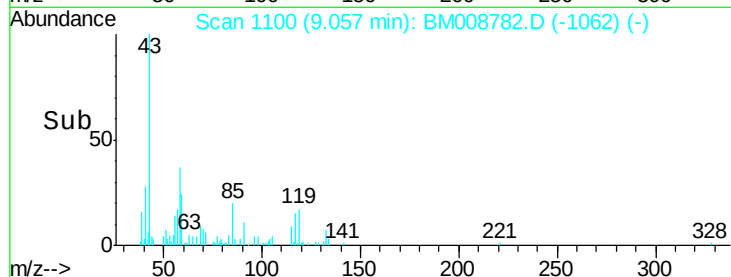
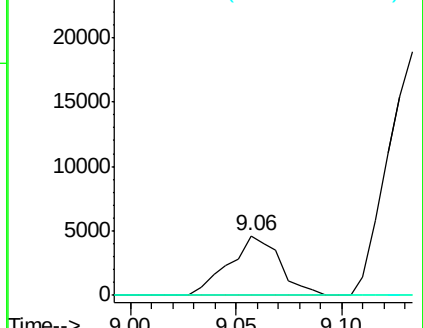
199 0.0 54.1 81.1#



Abundance Ion 117.00 (116.70 to 117.70): E

Ion 201.00 (200.70 to 201.70): E

Ion 199.00 (198.70 to 199.70): E



#28

Naphthalene

Concen: 33.94 ng/ul

RT: 10.81 min Scan# 1398

Delta R.T. 0.00 min

Lab File: BM008782.D

Acq: 21 Jan 2017 21:17

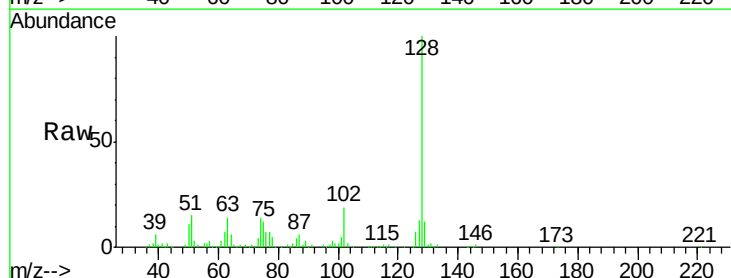
Tgt Ion:128 Resp: 399879

Ion Ratio Lower Upper

128 100

129 11.6 8.3 12.5

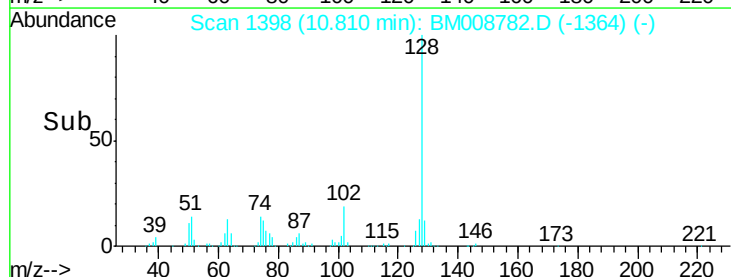
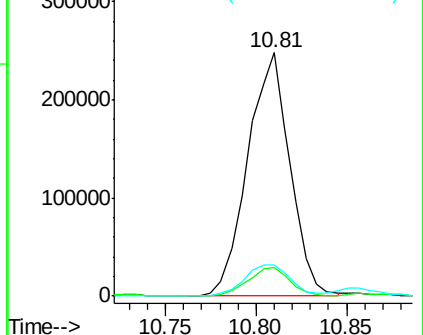
127 12.7 10.6 16.0

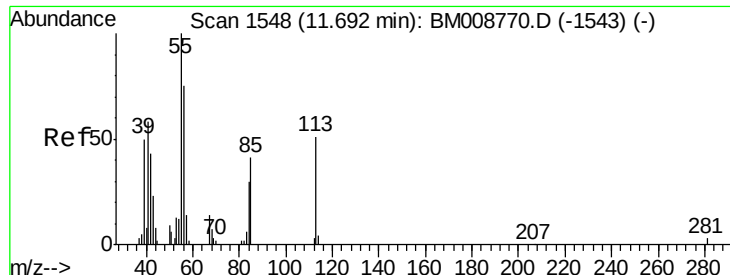


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#32

Caprolactam

Concen: 1.70 ng/ul

RT: 11.69 min Scan# 1548

Delta R.T. 0.00 min

Lab File: BM008782.D

Acq: 21 Jan 2017 21:17

Instrument :

BNA\_M

ClientSampleId :

DA9R1

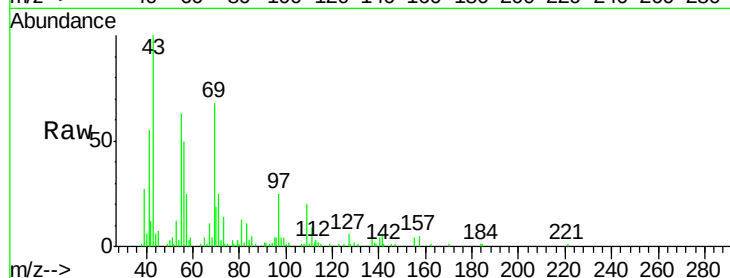
Tgt Ion:113 Resp: 2052

Ion Ratio Lower Upper

113 100

55 2511.5 117.0 175.4#

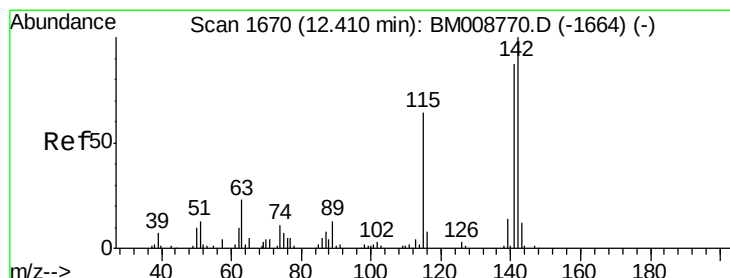
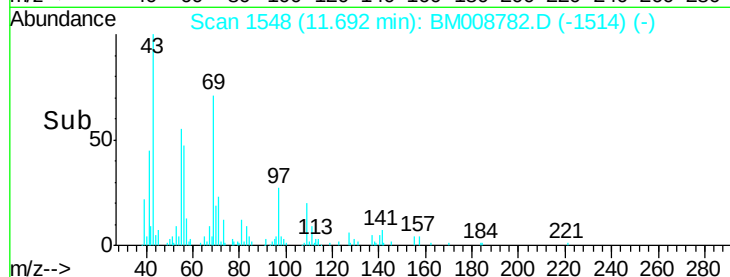
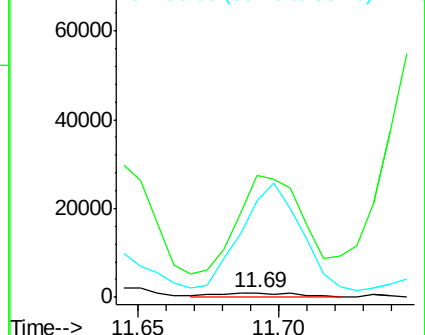
56 1978.1 97.7 146.5#



Abundance Ion 113.00 (112.70 to 113.70): E

Ion 55.00 (54.70 to 55.70): BM0

Ion 56.00 (55.70 to 56.70): BM0



#34

2-Methylnaphthalene

Concen: 7.26 ng/ul

RT: 12.41 min Scan# 1670

Delta R.T. 0.00 min

Lab File: BM008782.D

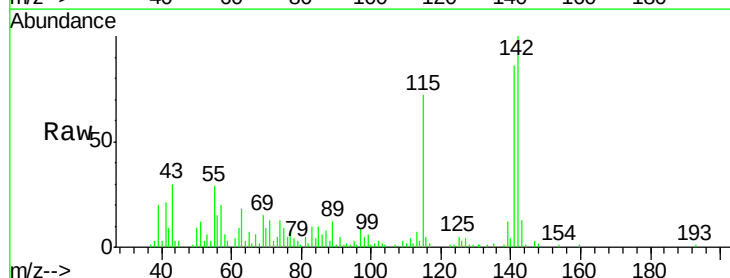
Acq: 21 Jan 2017 21:17

Tgt Ion:142 Resp: 66277

Ion Ratio Lower Upper

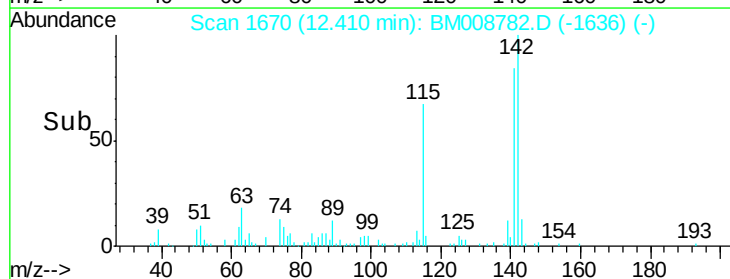
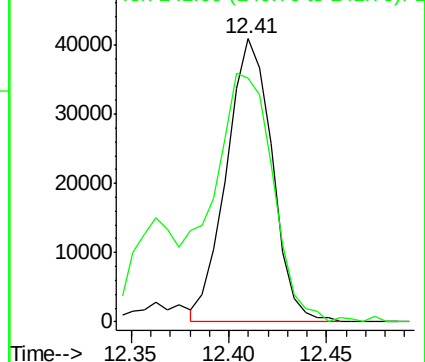
142 100

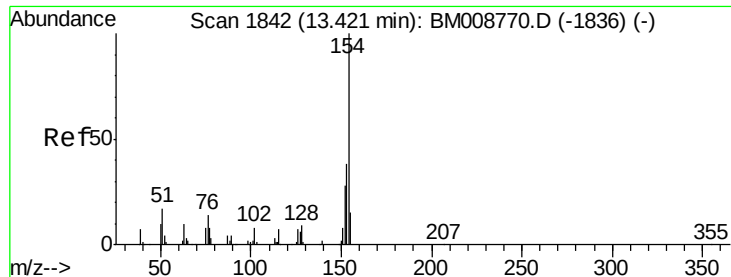
141 85.9 73.0 109.4



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

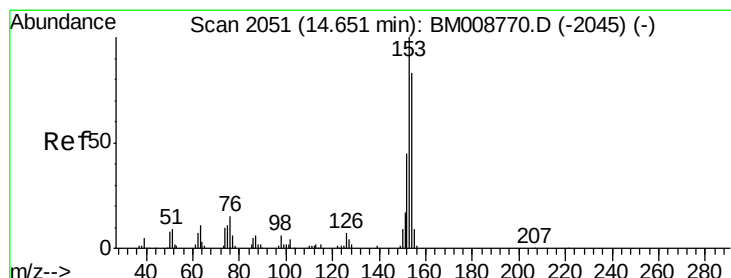
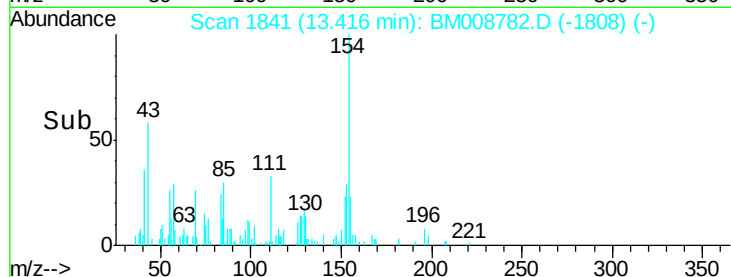
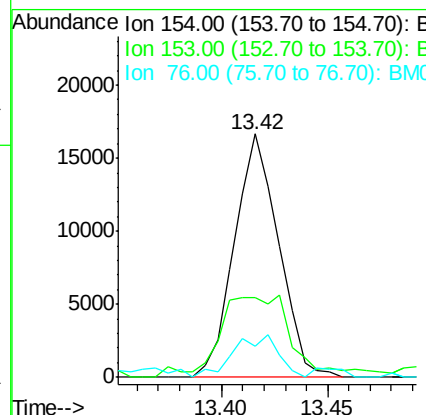
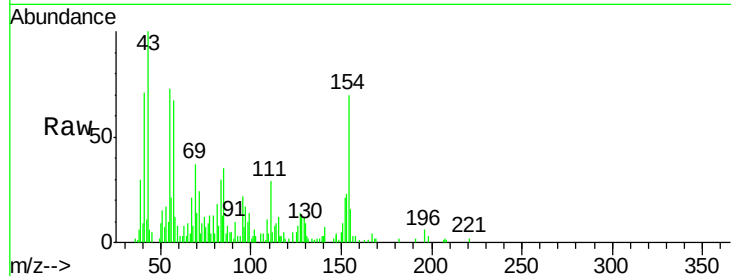




#40  
 1,1'-Biphenyl  
 Concen: 1.46 ng/ul  
 RT: 13.42 min Scan# 1841  
 Delta R.T. -0.01 min  
 Lab File: BM008782.D  
 Acq: 21 Jan 2017 21:17

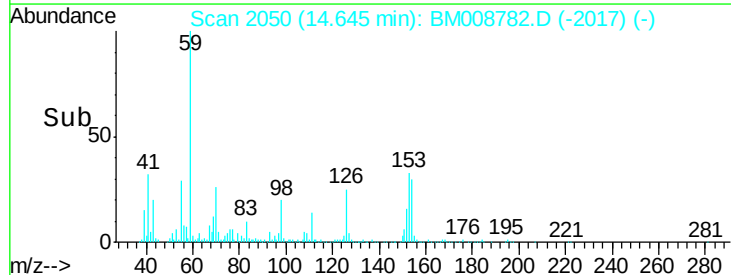
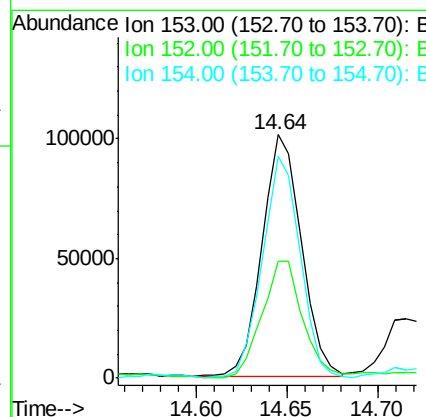
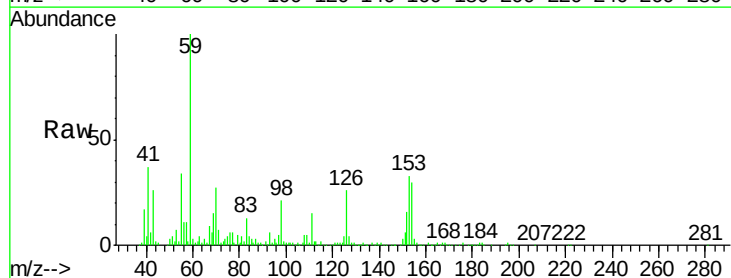
Instrument :  
 BNA\_M  
 ClientSampleId :  
 DA9R1

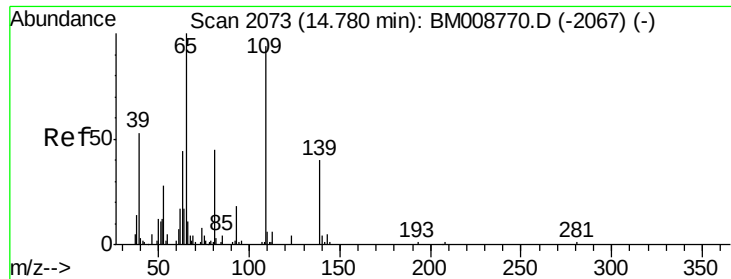
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 33.0  | 32.2  | 48.4  |
| 76      | 13.0  | 9.8   | 14.6  |



#49  
 Acenaphthene  
 Concen: 10.99 ng/ul  
 RT: 14.64 min Scan# 2050  
 Delta R.T. -0.01 min  
 Lab File: BM008782.D  
 Acq: 21 Jan 2017 21:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 153     | 100   |       |       |
| 152     | 47.8  | 36.4  | 54.6  |
| 154     | 91.3  | 68.7  | 103.1 |

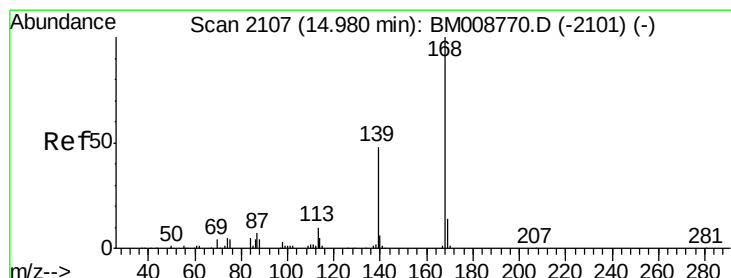
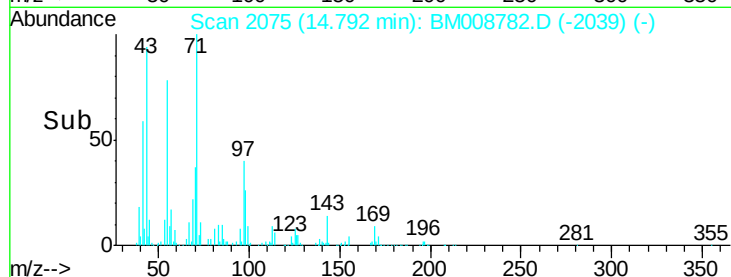
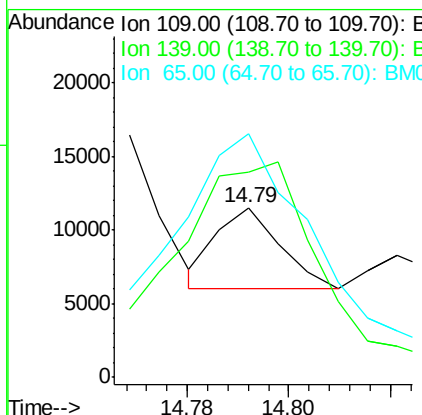
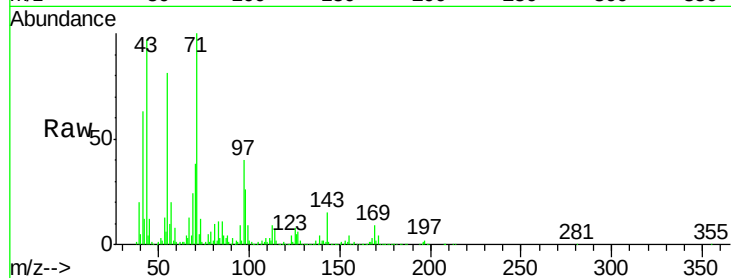




#52  
4-Nitrophenol  
Concen: 1.02 ng/ul  
RT: 14.79 min Scan# 2075  
Delta R.T. 0.01 min  
Lab File: BM008782.D  
Acq: 21 Jan 2017 21:17

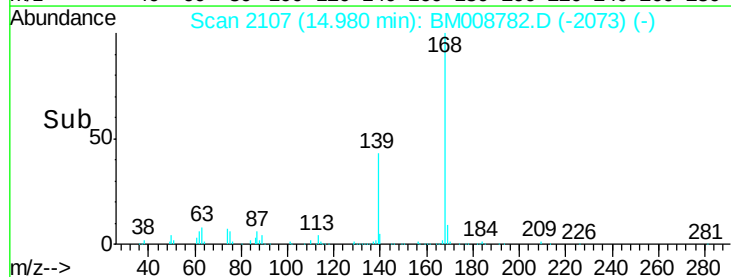
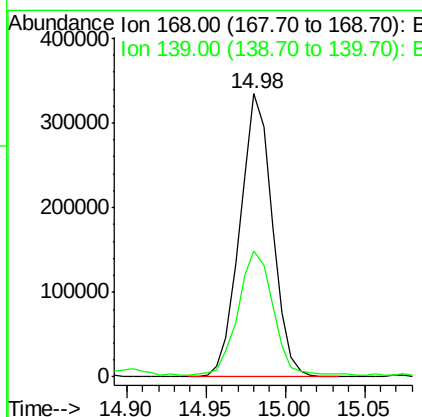
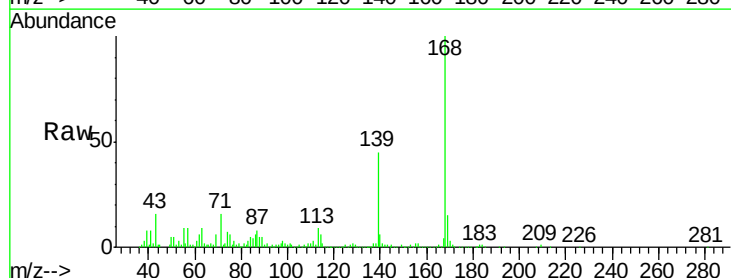
Instrument :  
BNA\_M  
ClientSampled :  
DA9R1

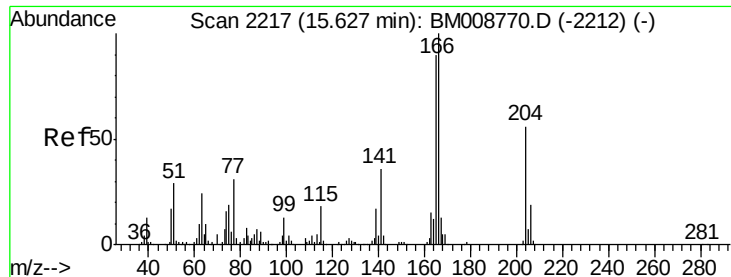
Tgt Ion:109 Resp: 4805  
Ion Ratio Lower Upper  
109 100  
139 121.3 85.4 128.2  
65 143.6 97.7 146.5



#53  
Dibenzofuran  
Concen: 22.36 ng/ul  
RT: 14.98 min Scan# 2107  
Delta R.T. 0.00 min  
Lab File: BM008782.D  
Acq: 21 Jan 2017 21:17

Tgt Ion:168 Resp: 473426  
Ion Ratio Lower Upper  
168 100  
139 44.6 30.3 45.5

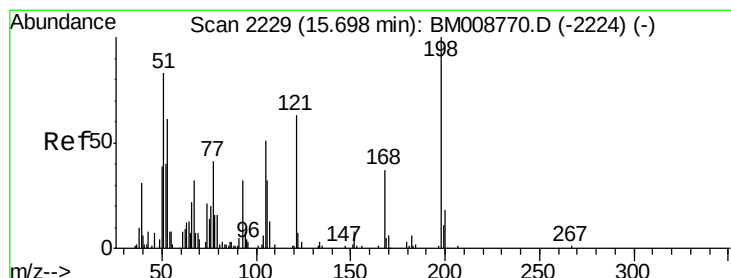
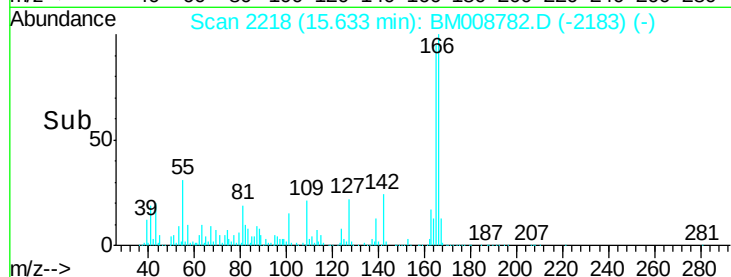
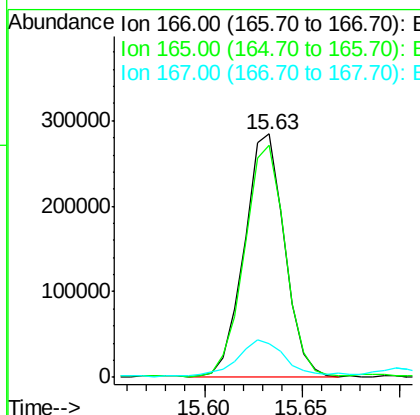
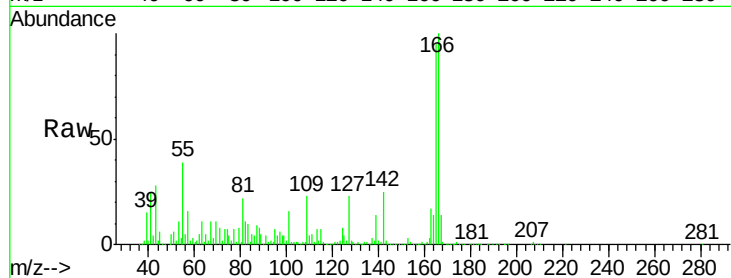




#58  
 Fluorene  
 Concen: 23.19 ng/ul  
 RT: 15.63 min Scan# 2218  
 Delta R.T. 0.01 min  
 Lab File: BM008782.D  
 Acq: 21 Jan 2017 21:17

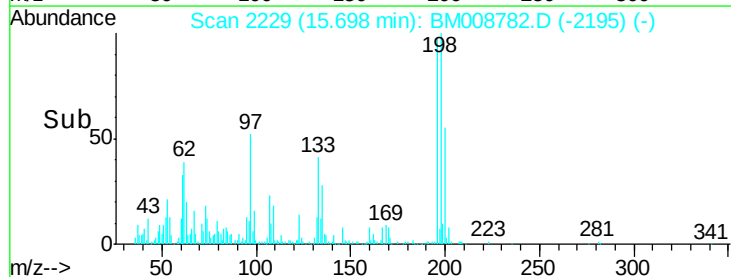
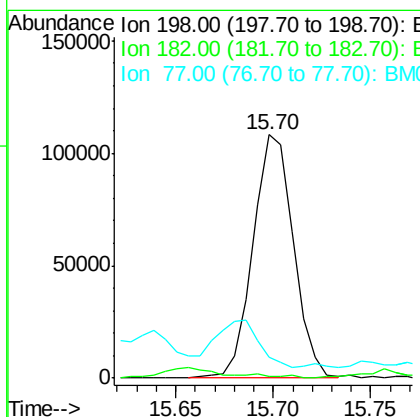
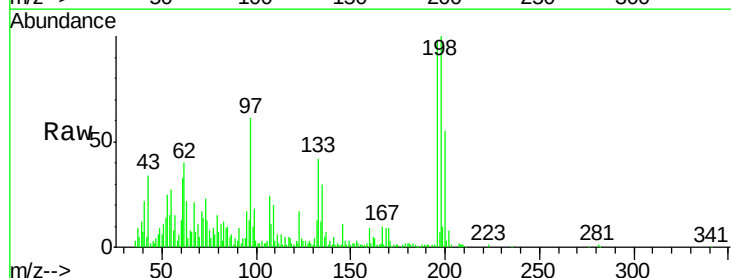
Instrument :  
 BNA\_M  
 ClientSampleId :  
 DA9R1

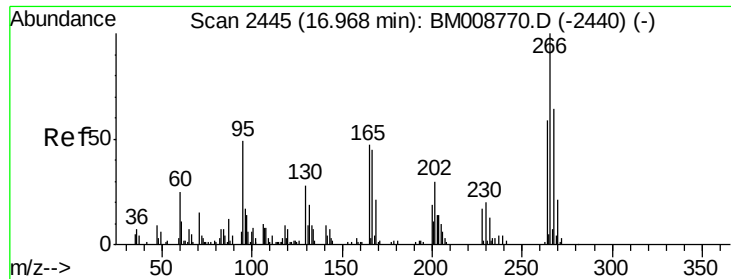
Tgt Ion:166 Resp: 402439  
 Ion Ratio Lower Upper  
 166 100  
 165 95.3 80.2 120.2  
 167 13.9 10.9 16.3



#63  
 4,6-Dinitro-2-methylphenol  
 Concen: 45.47 ng/ul  
 RT: 15.70 min Scan# 2229  
 Delta R.T. 0.00 min  
 Lab File: BM008782.D  
 Acq: 21 Jan 2017 21:17

Tgt Ion:198 Resp: 155528  
 Ion Ratio Lower Upper  
 198 100  
 182 0.9 4.4 6.6#  
 77 8.7 20.5 30.7#

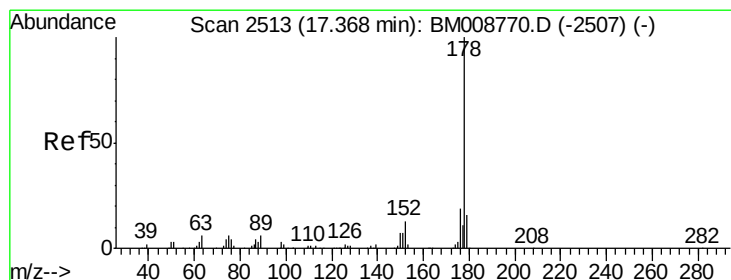
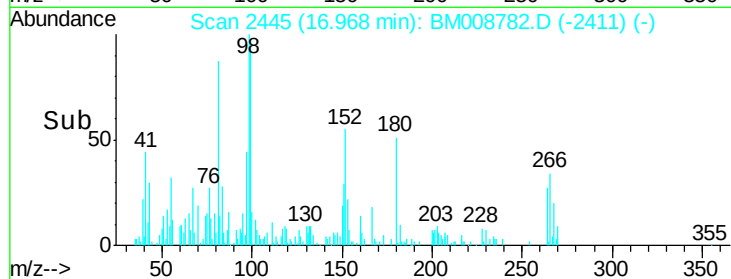
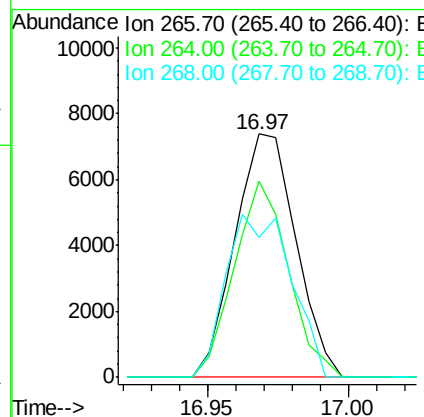
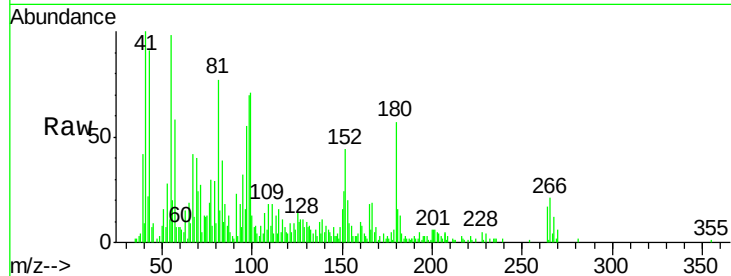




#68  
 Pentachlorophenol  
 Concen: 2.42 ng/ul  
 RT: 16.97 min Scan# 2445  
 Delta R.T. 0.00 min  
 Lab File: BM008782.D  
 Acq: 21 Jan 2017 21:17

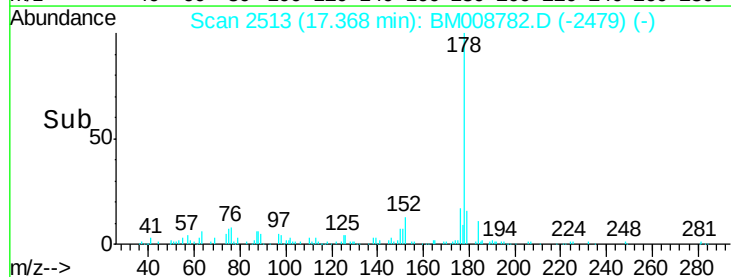
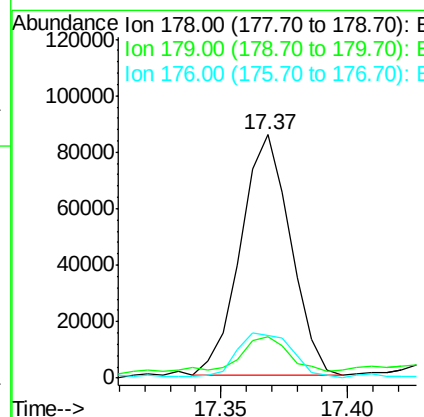
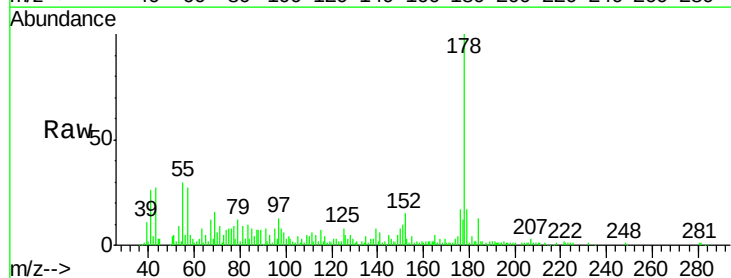
Instrument :  
 BNA\_M  
 ClientSampleId :  
 DA9R1

Tgt Ion:266 Resp: 11069  
 Ion Ratio Lower Upper  
 266 100  
 264 80.6 50.6 75.8#  
 268 57.3 49.1 73.7

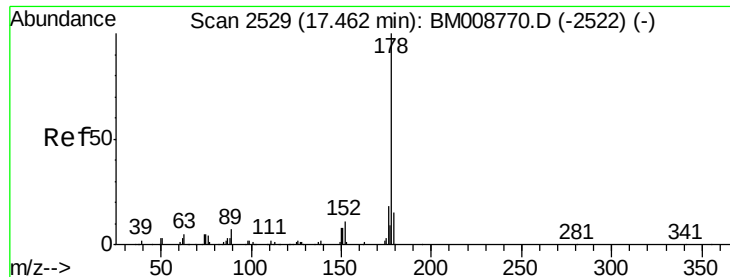


#69  
 Phenanthrene  
 Concen: 3.88 ng/ul  
 RT: 17.37 min Scan# 2513  
 Delta R.T. 0.00 min  
 Lab File: BM008782.D  
 Acq: 21 Jan 2017 21:17

Tgt Ion:178 Resp: 117122  
 Ion Ratio Lower Upper  
 178 100  
 179 16.7 12.2 18.2  
 176 17.3 14.7 22.1



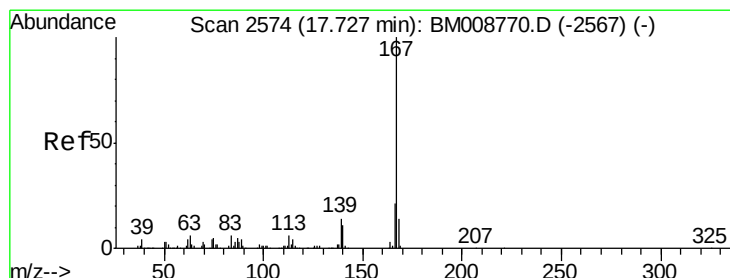
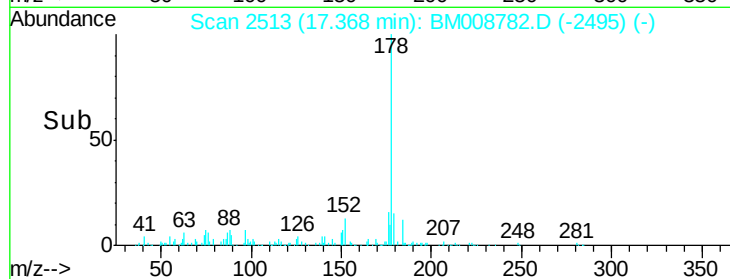
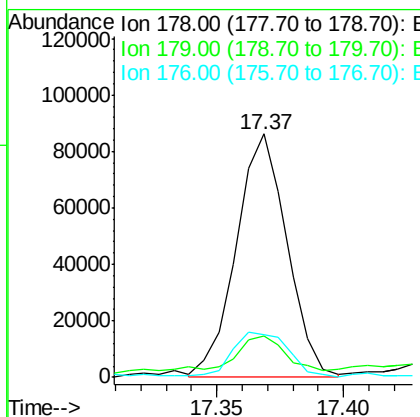
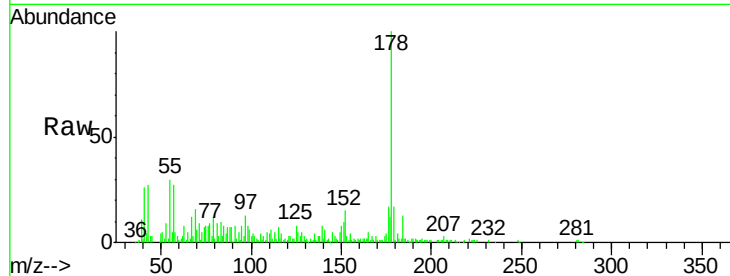




#71  
 Anthracene  
 Concen: 3.85 ng/ul  
 RT: 17.37 min Scan# 2513  
 Delta R.T. -0.09 min  
 Lab File: BM008782.D  
 Acq: 21 Jan 2017 21:17

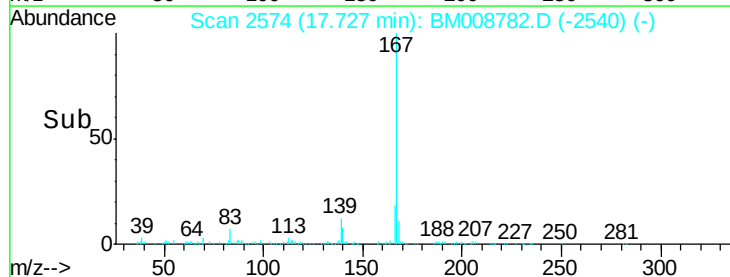
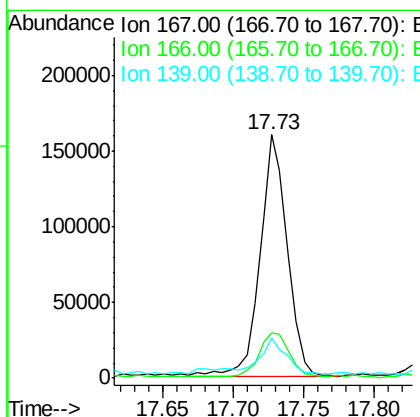
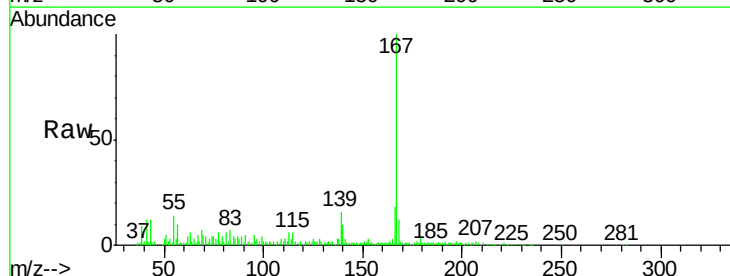
Instrument :  
 BNA\_M  
 ClientSampleId :  
 DA9R1

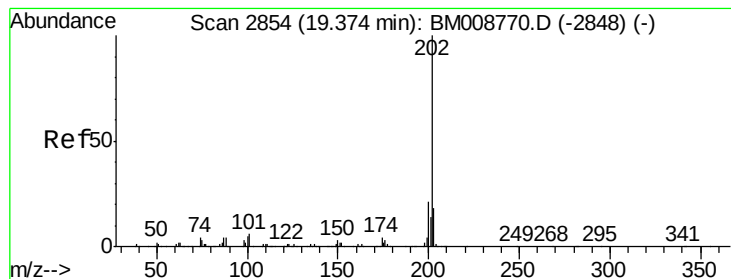
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 16.7  | 11.8  | 17.8  |
| 176     | 17.3  | 14.6  | 21.8  |



#72  
 Carbazole  
 Concen: 7.78 ng/ul  
 RT: 17.73 min Scan# 2574  
 Delta R.T. 0.00 min  
 Lab File: BM008782.D  
 Acq: 21 Jan 2017 21:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 167     | 100   |       |       |
| 166     | 18.3  | 16.8  | 25.2  |
| 139     | 16.4  | 10.4  | 15.6  |





#74

Fluoranthene

Concen: 1.57 ng/ul

RT: 19.37 min Scan# 2854

Delta R.T. 0.00 min

Lab File: BM008782.D

Acq: 21 Jan 2017 21:17

Instrument :

BNA\_M

ClientSampleId :

DA9R1

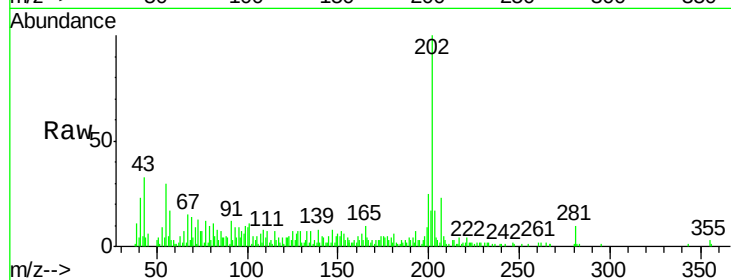
Tgt Ion: 202 Resp: 60924

Ion Ratio Lower Upper

202 100

101 11.4 7.1 10.7#

100 8.7 5.4 8.0#



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B

