

Data Path : Z:\HPCHEM1\BNA M\DATA\BM042418\  
 Data File : BM014827.D  
 Acq On : 25 Apr 2018 01:41  
 Operator : SJ/JU  
 Sample : J2431-05DL 5X  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :

Quant Time: Apr 25 04:29:22 2018  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM041918.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Apr 25 02:07:23 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.52  | 152  | 515405   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 11.37 | 136  | 2275872  | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 15.13 | 164  | 1292097  | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.84 | 188  | 2864713  | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.92 | 240  | 3055515  | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 24.41 | 264  | 3126014  | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |      |       |       |
|--------------------------------|-------|-----|---------|------|-------|-------|
| 3) 1,4-Dioxane-d8              | 3.66  | 96  | 4096    | 0.35 | ng/uL | 0.01  |
| 5) Phenol-d5                   | 7.65  | 99  | 64332   | 1.61 | ng/ul | 0.00  |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.82  | 67  | 203165  | 7.95 | ng/ul | 0.00  |
| 9) 2-Chlorophenol-d4           | 8.04  | 132 | 198660  | 5.96 | ng/ul | 0.00  |
| 13) 4-Methylphenol-d8          | 9.22  | 113 | 126062  | 3.97 | ng/ul | 0.00  |
| 19) Nitrobenzene-d5            | 9.70  | 128 | 117768  | 7.16 | ng/ul | 0.00  |
| 22) 2-Nitrophenol-d4           | 10.43 | 143 | 106945  | 6.53 | ng/ul | 0.00  |
| 26) 2,4-Dichlorophenol-d3      | 10.97 | 165 | 209138  | 6.28 | ng/ul | 0.00  |
| 29) 4-Chloroaniline-d4         | 11.47 | 131 | 24476   | 0.74 | ng/ul | -0.02 |
| 43) Dimethylphthalate-d6       | 14.52 | 166 | 769443  | 7.63 | ng/ul | 0.00  |
| 46) Acenaphthylene-d8          | 14.83 | 160 | 899393  | 7.22 | ng/ul | 0.00  |
| 51) 4-Nitrophenol-d4           | 15.28 | 143 | 17628   | 0.94 | ng/ul | 0.00  |
| 57) Fluorene-d10               | 16.10 | 176 | 666632  | 7.60 | ng/ul | 0.00  |
| 62) 4,6-Dinitro-2-methylphenol | 16.20 | 200 | 66719   | 4.30 | ng/ul | 0.00  |
| 70) Anthracene-d10             | 17.93 | 188 | 987853  | 7.40 | ng/ul | 0.00  |
| 76) Pyrene-d10                 | 20.17 | 212 | 1086060 | 7.51 | ng/ul | 0.00  |
| 87) Benzo(a)pyrene-d12         | 24.25 | 264 | 1076968 | 7.01 | ng/ul | 0.00  |

## Target Compounds

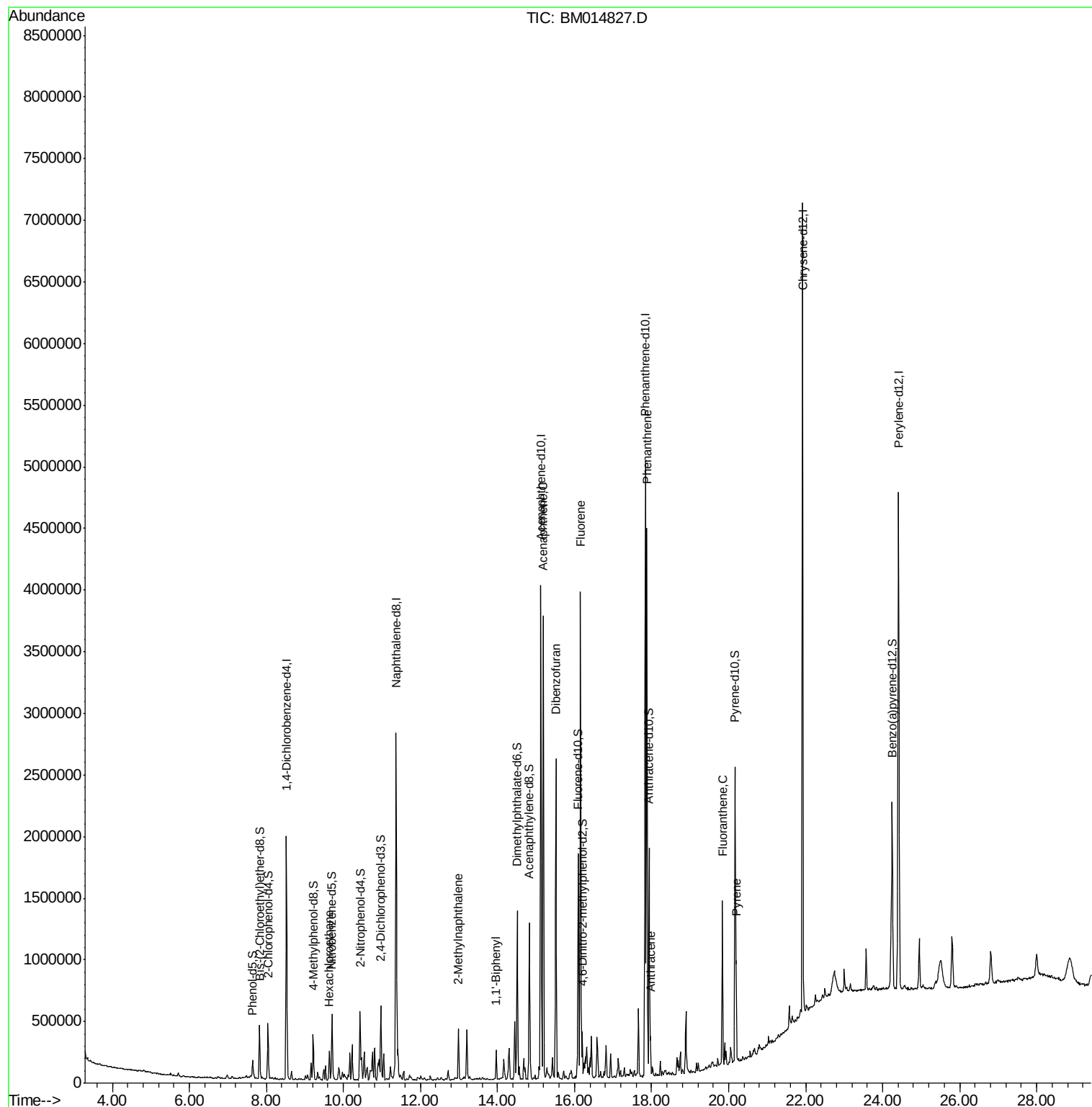
|                         |       |     |         |        | Ovalue |     |
|-------------------------|-------|-----|---------|--------|--------|-----|
| 17) Hexachloroethane    | 9.64  | 117 | 14887   | 1.109  | ng/ul# | 1   |
| 34) 2-Methylnaphthalene | 12.99 | 142 | 182543  | 2.370  | ng/ul  | 95  |
| 40) 1,1'-Biphenyl       | 13.97 | 154 | 118798  | 1.143  | ng/ul# | 96  |
| 49) Acenaphthene        | 15.19 | 153 | 1497584 | 17.464 | ng/ul  | 99  |
| 53) Dibenzofuran        | 15.52 | 168 | 1575679 | 13.232 | ng/ul  | 99  |
| 58) Fluorene            | 16.16 | 166 | 1699200 | 17.672 | ng/ul  | 100 |
| 69) Phenanthrene        | 17.88 | 178 | 2502310 | 16.265 | ng/ul  | 99  |
| 71) Anthracene          | 17.97 | 178 | 175401  | 1.123  | ng/ul  | 99  |
| 74) Fluoranthene        | 19.84 | 202 | 764522  | 4.558  | ng/ul# | 80  |
| 77) Pyrene              | 20.20 | 202 | 457887  | 2.565  | ng/ul# | 79  |

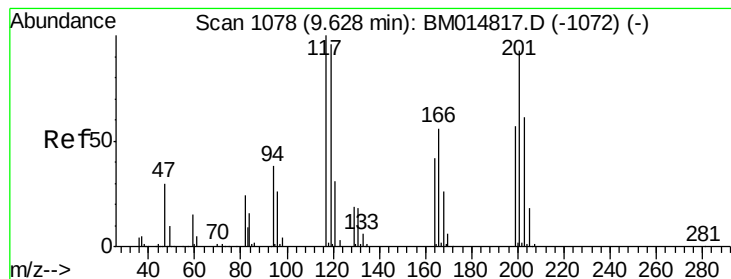
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA M\DATA\BM042418\  
Data File : BM014827.D  
Acq On : 25 Apr 2018 01:41  
Operator : SJ/JU  
Sample : J2431-05DL 5X  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :

Quant Time: Apr 25 04:29:22 2018  
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM041918.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Wed Apr 25 02:07:23 2018  
Response via : Initial Calibration





#17

Hexachloroethane

Concen: 1.109 ng/ul

RT: 9.64 min Scan# 1080

Delta R.T. 0.01 min

Lab File: BM014827.D

Acq: 25 Apr 2018 01:41

Instrument :

BNA\_M

ClientSampled :

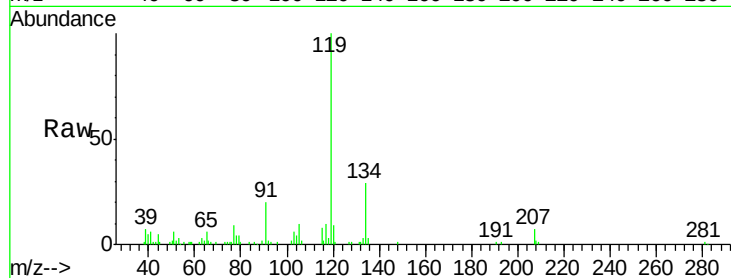
Tot Ion:117 Resp: 14887

Ion Ratio Lower Upper

117 100

201 0.0 111.6 167.4#

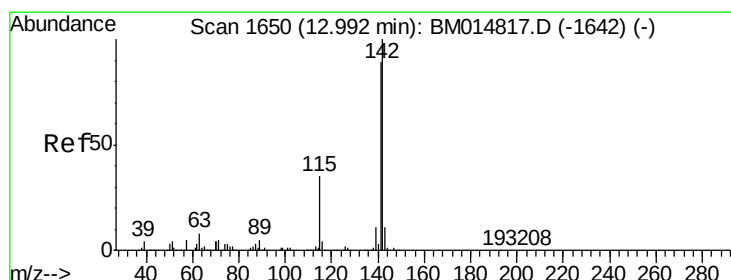
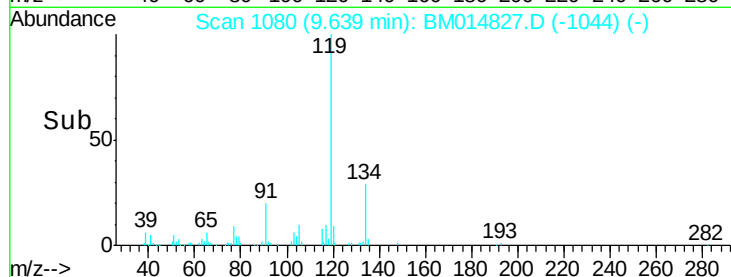
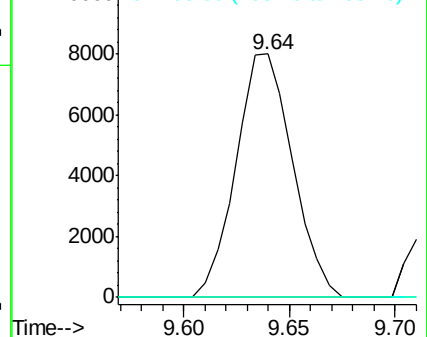
199 0.0 67.8 101.6#



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



#34

2-Methylnaphthalene

Concen: 2.370 ng/ul

RT: 12.99 min Scan# 1649

Delta R.T. -0.01 min

Lab File: BM014827.D

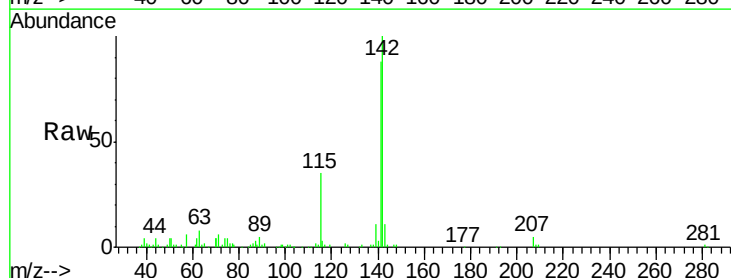
Acq: 25 Apr 2018 01:41

Tgt Ion:142 Resp: 182543

Ion Ratio Lower Upper

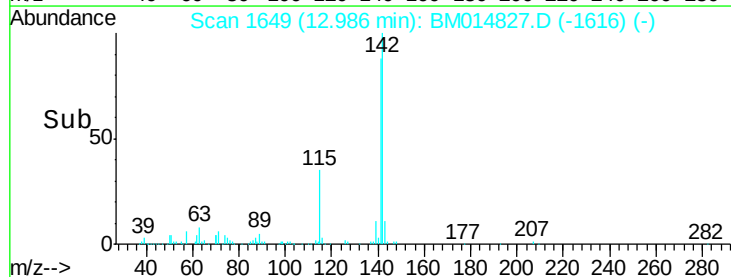
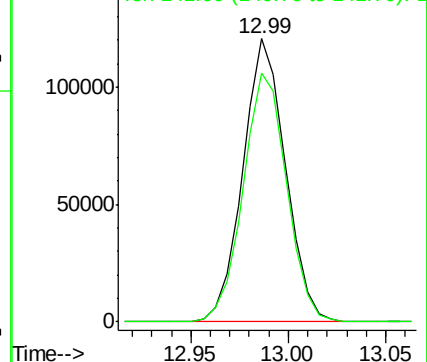
142 100

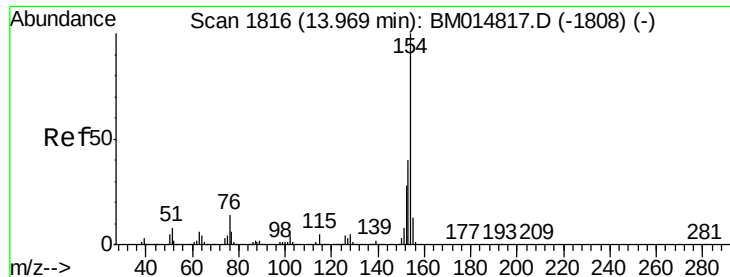
141 87.9 74.1 111.1



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

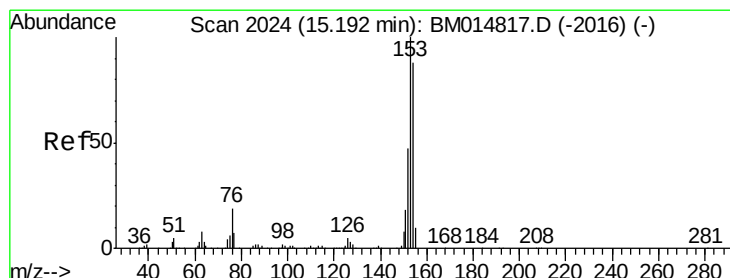
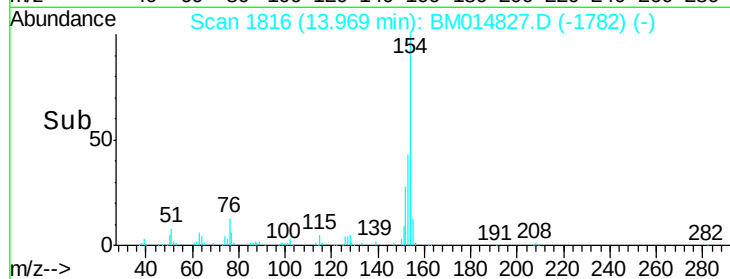
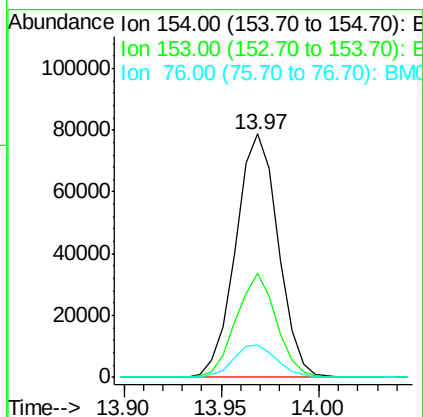
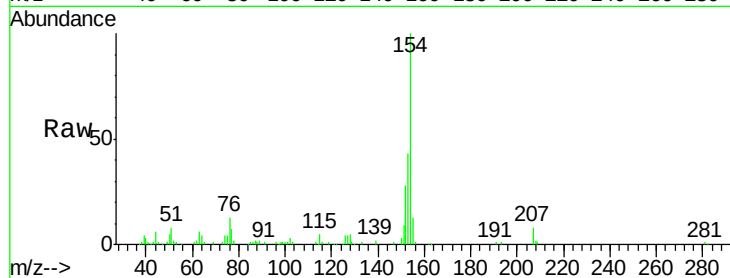




#40  
1,1'-Biphenyl  
Concen: 1.143 ng/ul  
RT: 13.97 min Scan# 1816  
Delta R.T. -0.00 min  
Lab File: BM014827.D  
Acq: 25 Apr 2018 01:41

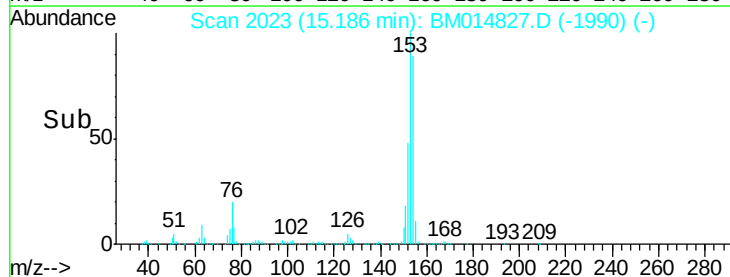
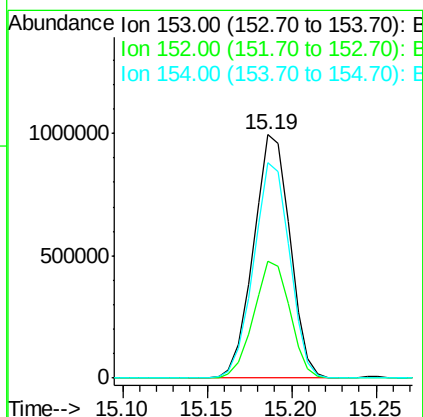
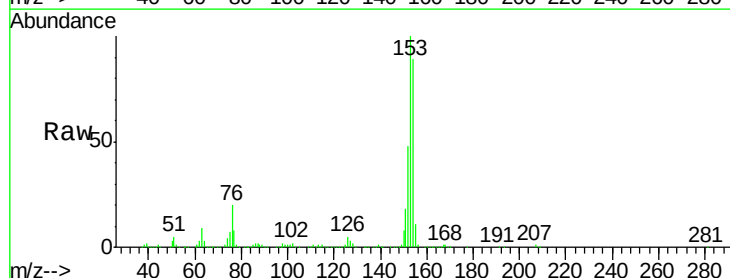
Instrument :  
BNA\_M  
ClientSampleId :

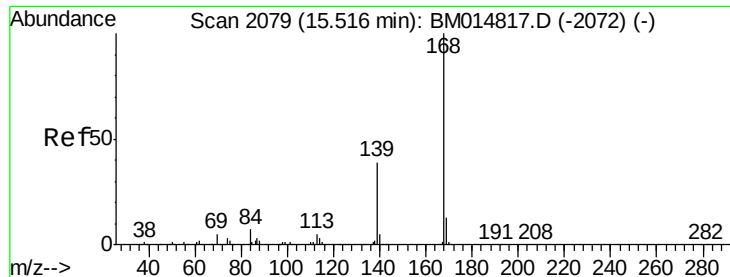
Tot Ion:154 Resp: 118798  
Ion Ratio Lower Upper  
154 100  
153 42.7 32.6 48.8  
76 13.2 8.5 12.7#



#49  
Acenaphthene  
Concen: 17.464 ng/ul  
RT: 15.19 min Scan# 2023  
Delta R.T. -0.01 min  
Lab File: BM014827.D  
Acq: 25 Apr 2018 01:41

Tgt Ion:153 Resp: 1497584  
Ion Ratio Lower Upper  
153 100  
152 47.8 37.6 56.4  
154 88.6 70.4 105.6





#53

Dibenzenofuran

Concen: 13.232 ng/ul

RT: 15.52 min Scan# 2079

Delta R.T. -0.00 min

Lab File: BM014827.D

Acq: 25 Apr 2018 01:41

Instrument :

BNA\_M

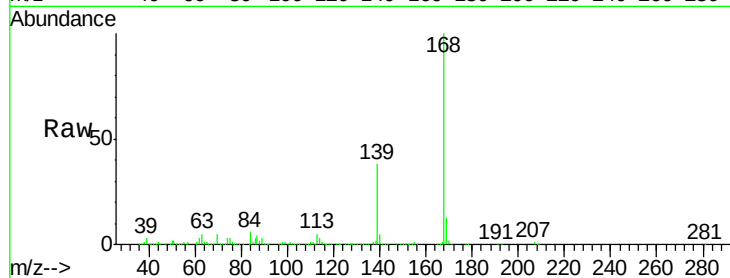
ClientSampleId :

Tot Ion:168 Resp: 1575679

Ion Ratio Lower Upper

168 100

139 37.8 30.8 46.2



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

1200000

1000000

800000

600000

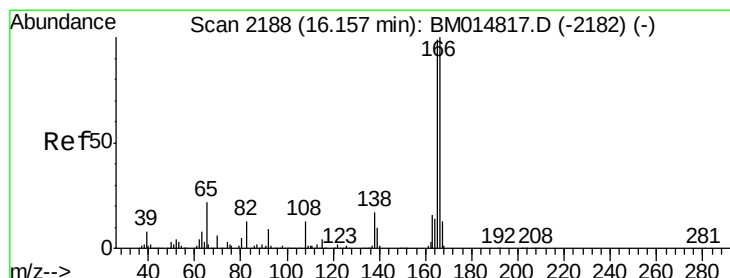
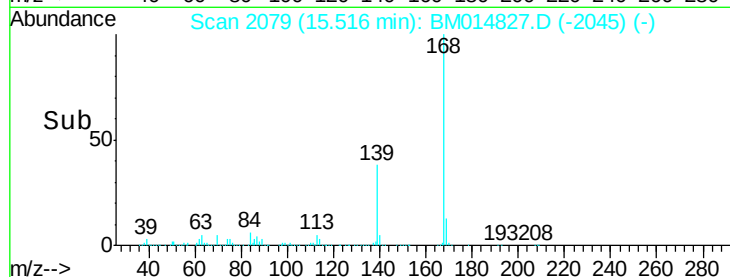
400000

200000

0

15.50 15.60

Time-->



#58

Fluorene

Concen: 17.672 ng/ul

RT: 16.16 min Scan# 2188

Delta R.T. -0.00 min

Lab File: BM014827.D

Acq: 25 Apr 2018 01:41

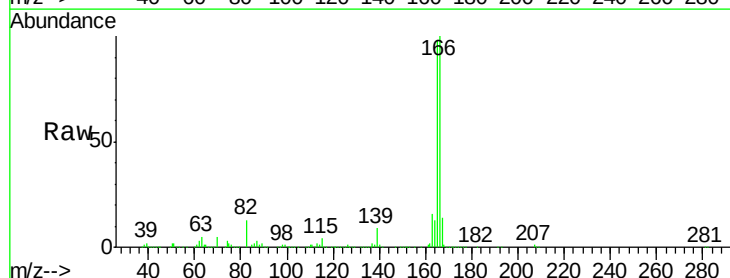
Tgt Ion:166 Resp: 1699200

Ion Ratio Lower Upper

166 100

165 97.5 77.9 116.9

167 13.6 10.6 16.0



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

1500000

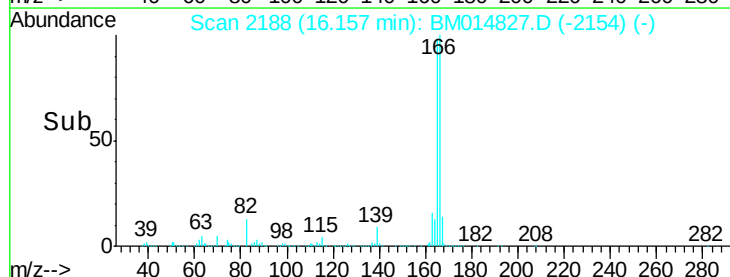
1000000

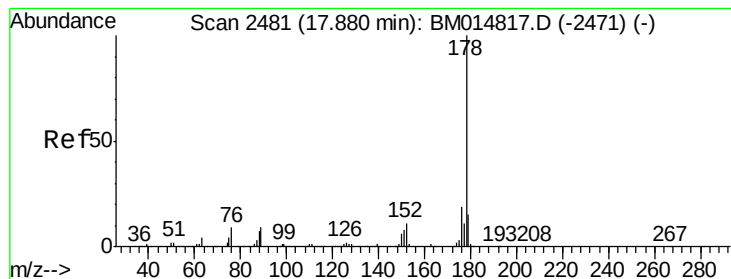
500000

0

16.10 16.15 16.20

Time-->





#69

Phenanthrene

Concen: 16.265 ng/ul

RT: 17.88 min Scan# 2481

Delta R.T. -0.00 min

Lab File: BM014827.D

Acq: 25 Apr 2018 01:41

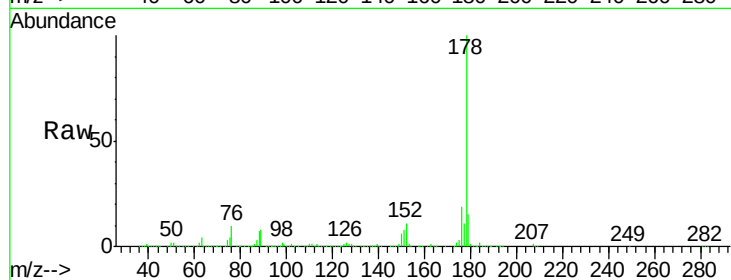
Instrument :

BNA\_M

ClientSampled :

Tot Ion:178 Resp: 2502310

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 179 | 15.2  | 12.6  | 19.0  |
| 176 | 19.1  | 14.9  | 22.3  |

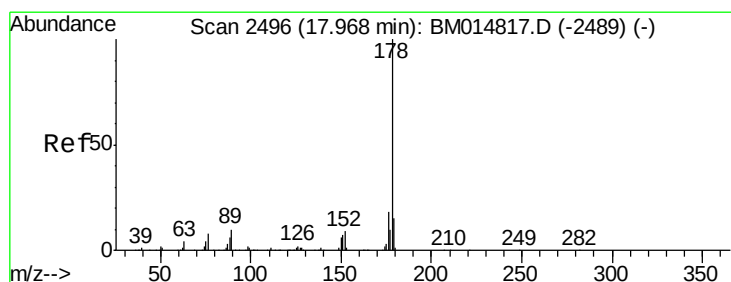
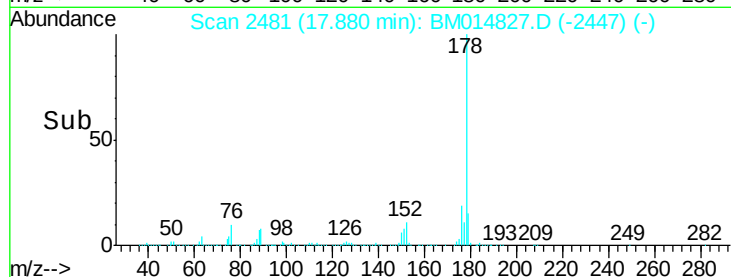
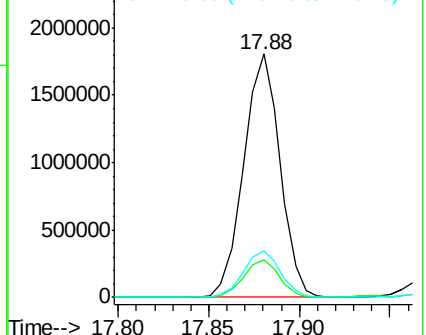


Abundance

Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E



#71

Anthracene

Concen: 1.123 ng/ul

RT: 17.97 min Scan# 2496

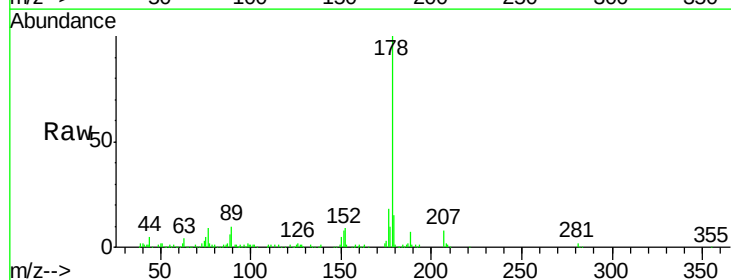
Delta R.T. -0.00 min

Lab File: BM014827.D

Acq: 25 Apr 2018 01:41

Tgt Ion:178 Resp: 175401

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 179 | 15.3  | 11.7  | 17.5  |
| 176 | 18.0  | 14.6  | 21.8  |

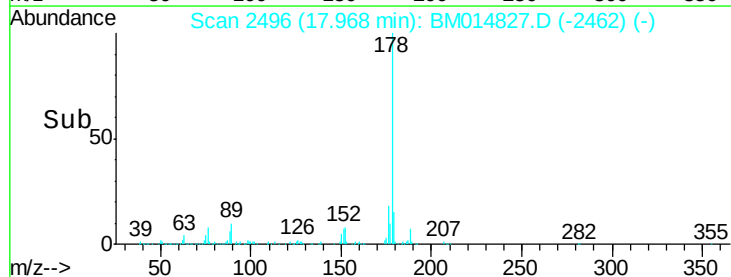
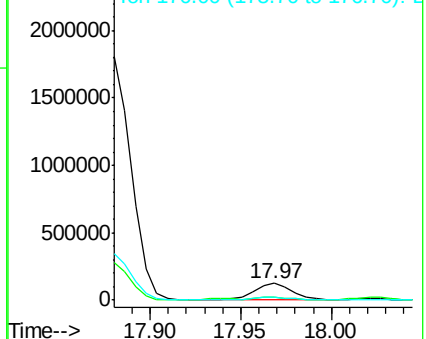


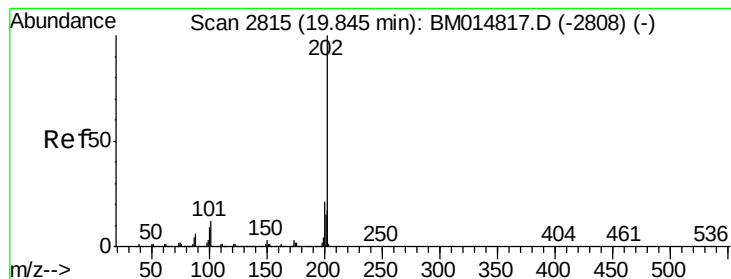
Abundance

Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#74

Fluoranthene

Concen: 4.558 ng/ul

RT: 19.84 min Scan# 2814

Delta R.T. -0.01 min

Lab File: BM014827.D

Acq: 25 Apr 2018 01:41

Instrument :

BNA\_M

ClientSampleId :

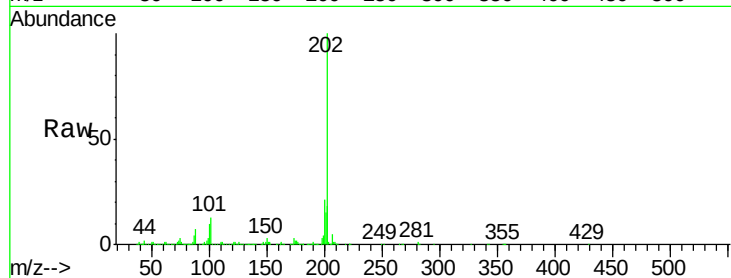
Tot Ion:202 Resp: 764522

Ion Ratio Lower Upper

202 100

101 12.7 4.6 7.0#

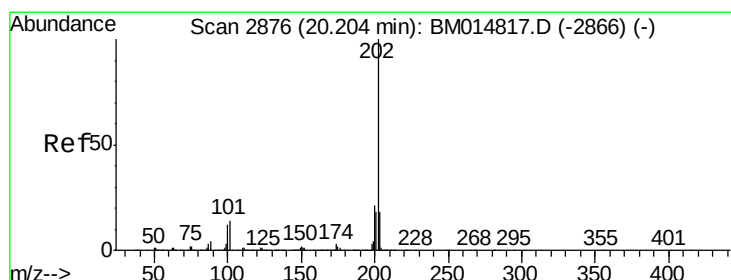
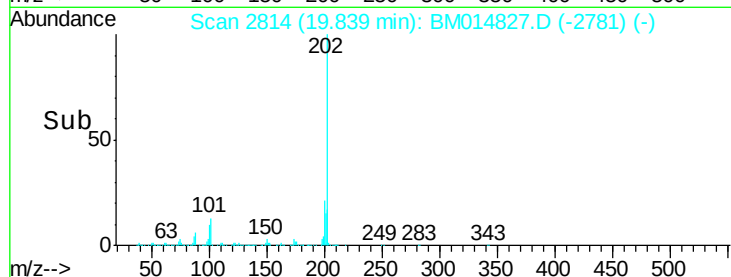
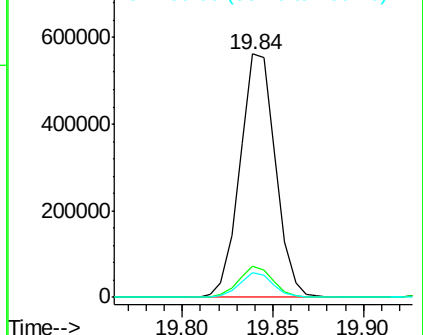
100 10.3 3.4 5.2#



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



#77

Pyrene

Concen: 2.565 ng/ul

RT: 20.20 min Scan# 2875

Delta R.T. -0.01 min

Lab File: BM014827.D

Acq: 25 Apr 2018 01:41

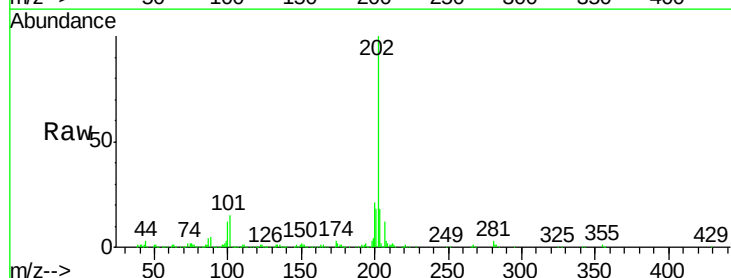
Tgt Ion:202 Resp: 457887

Ion Ratio Lower Upper

202 100

101 14.6 5.1 7.7#

100 12.1 4.9 7.3#



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

