

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM101519\  
 Data File : BM023171.D  
 Acq On : 15 Oct 2019 17:58  
 Operator : JU  
 Sample : K5028-14  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :

Quant Time: Oct 16 06:49:01 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM101419MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Oct 15 02:28:10 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.69  | 152  | 370408   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.47 | 136  | 1600285  | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 14.33 | 164  | 1043432  | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 17.07 | 188  | 2267987  | 20.00 | ng/ul | 0.00     |
| 78) Chrysene-d12          | 21.26 | 240  | 2493374  | 20.00 | ng/ul | 0.00     |
| 86) Perylene-d12          | 23.48 | 264  | 2689778  | 20.00 | ng/ul | -0.01    |

## System Monitoring Compounds

|                                |       |     |         |       |       |       |
|--------------------------------|-------|-----|---------|-------|-------|-------|
| 3) 1,4-Dioxane-d8              | 3.20  | 96  | 10155   | 1.21  | ng/uL | 0.00  |
| 5) Phenol-d5                   | 6.86  | 99  | 193674  | 6.00  | ng/ul | 0.00  |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.03  | 67  | 441906  | 24.21 | ng/ul | 0.00  |
| 9) 2-Chlorophenol-d4           | 7.22  | 132 | 483100  | 19.57 | ng/ul | 0.00  |
| 13) 4-Methylphenol-d8          | 8.39  | 113 | 345106  | 13.32 | ng/ul | 0.00  |
| 19) Nitrobenzene-d5            | 8.83  | 128 | 283134  | 26.15 | ng/ul | 0.00  |
| 22) 2-Nitrophenol-d4           | 9.55  | 143 | 271183  | 26.31 | ng/ul | 0.00  |
| 26) 2,4-Dichlorophenol-d3      | 10.09 | 165 | 603939  | 23.04 | ng/ul | 0.00  |
| 29) 4-Chloroaniline-d4         | 10.60 | 131 | 431814  | 13.54 | ng/ul | 0.00  |
| 44) Dimethylphthalate-d6       | 13.74 | 166 | 2072483 | 25.92 | ng/ul | 0.00  |
| 47) Acenaphthylene-d8          | 14.02 | 160 | 2315877 | 24.69 | ng/ul | 0.00  |
| 52) 4-Nitrophenol-d4           | 14.52 | 143 | 70524   | 5.45  | ng/ul | 0.00  |
| 58) Fluorene-d10               | 15.33 | 176 | 1748204 | 25.66 | ng/ul | 0.00  |
| 63) 4,6-Dinitro-2-methylphenol | 15.43 | 200 | 194315  | 21.61 | ng/ul | -0.01 |
| 71) Anthracene-d10             | 17.17 | 188 | 2848788 | 26.05 | ng/ul | -0.01 |
| 79) Pyrene-d10                 | 19.47 | 212 | 3367103 | 27.89 | ng/ul | 0.00  |
| 90) Benzo(a)pyrene-d12         | 23.34 | 264 | 3627079 | 26.60 | ng/ul | -0.01 |

## Target Compounds

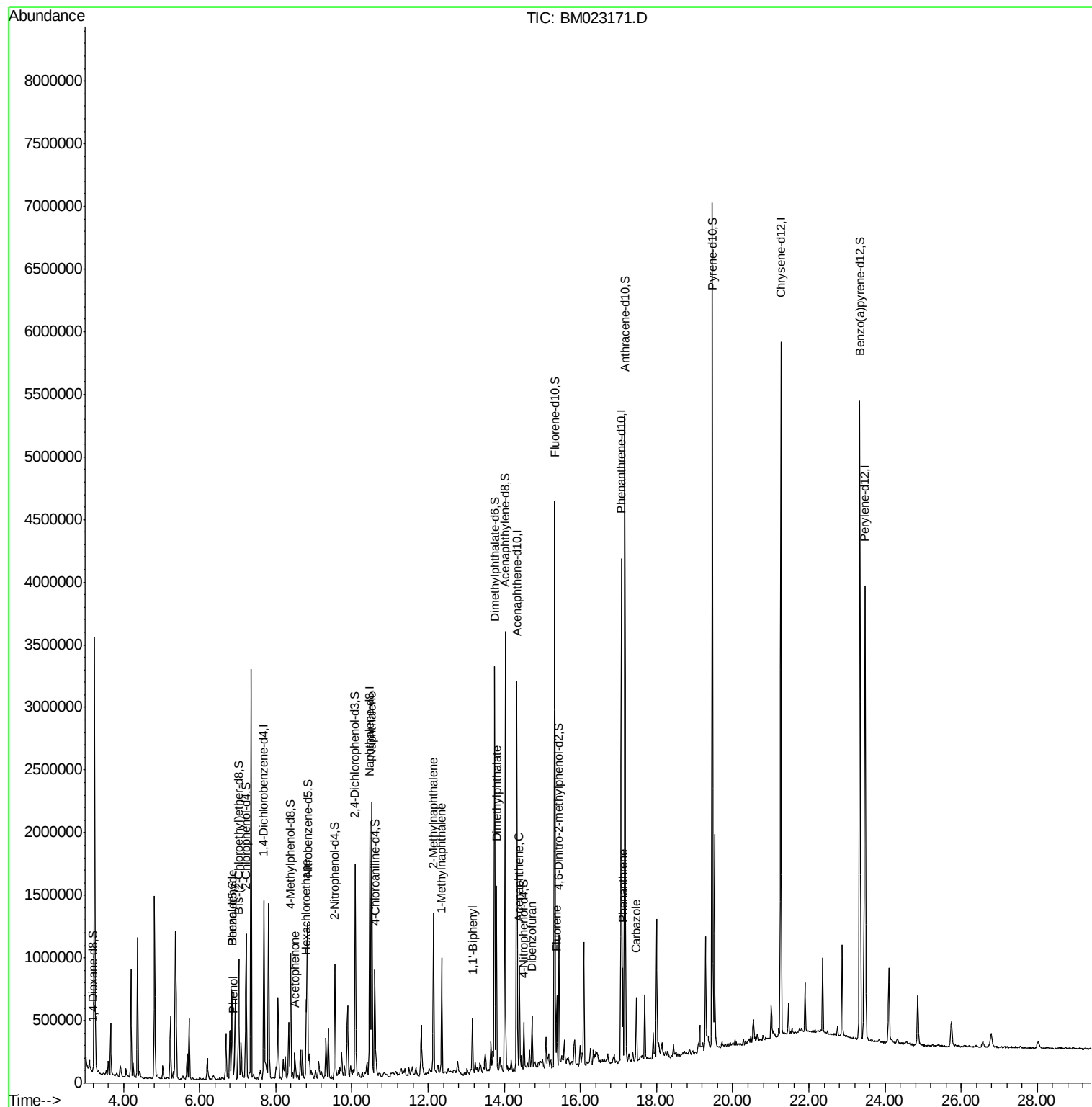
|                         |       |     |         |        | Ovalue |     |
|-------------------------|-------|-----|---------|--------|--------|-----|
| 4) Benzaldehyde         | 6.85  | 77  | 44955   | 2.121  | ng/ul# | 1   |
| 6) Phenol               | 6.88  | 94  | 44081   | 1.325  | ng/ul  | 96  |
| 14) Acetophenone        | 8.50  | 105 | 123466  | 3.056  | ng/ul# | 51  |
| 17) Hexachloroethane    | 8.80  | 117 | 58212   | 5.675  | ng/ul# | 3   |
| 28) Naphthalene         | 10.52 | 128 | 1720897 | 20.805 | ng/ul  | 99  |
| 34) 2-Methylnaphthalene | 12.14 | 142 | 591555  | 9.611  | ng/ul  | 100 |
| 35) 1-Methylnaphthalene | 12.36 | 142 | 404817  | 6.796  | ng/ul  | 100 |
| 41) 1,1'-Biphenyl       | 13.16 | 154 | 206698  | 2.603  | ng/ul  | 99  |
| 45) Dimethylphthalate   | 13.79 | 163 | 889512  | 11.114 | ng/ul  | 100 |
| 50) Acenaphthene        | 14.39 | 153 | 319695  | 4.788  | ng/ul  | 99  |
| 54) Dibenzofuran        | 14.73 | 168 | 221932  | 2.341  | ng/ul  | 98  |
| 59) Fluorene            | 15.38 | 166 | 234028  | 3.009  | ng/ul  | 97  |
| 70) Phenanthrene        | 17.12 | 178 | 445762  | 3.502  | ng/ul  | 100 |
| 75) Carbazole           | 17.47 | 167 | 305623  | 2.601  | ng/ul  | 99  |

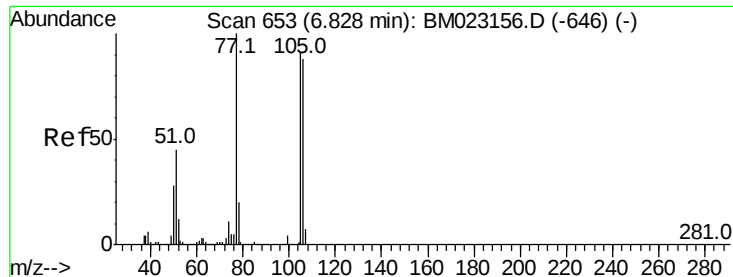
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SVOA CALIBRATION  
QLast Update : Tue Oct 15 02:28:10 2019  
Response via : Initial Calibration





#4

Benzaldehyde

Concen: 2.121 ng/ul

RT: 6.85 min Scan# 657

Delta R.T. 0.02 min

Lab File: BM023171.D

Acq: 15 Oct 2019 17:58

Instrument :

BNA\_M

ClientSampleId :

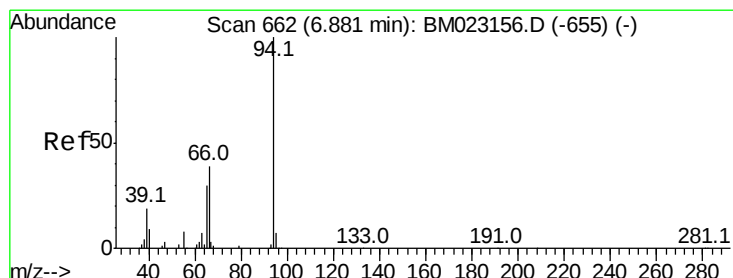
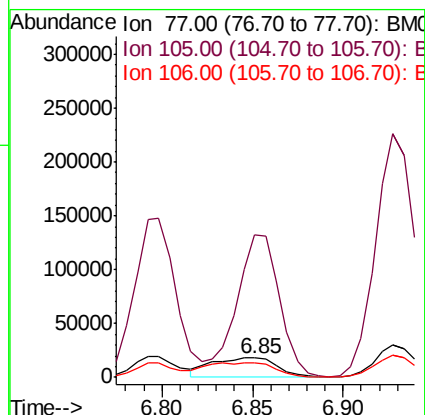
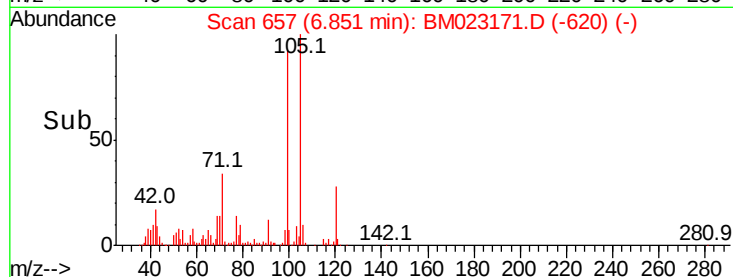
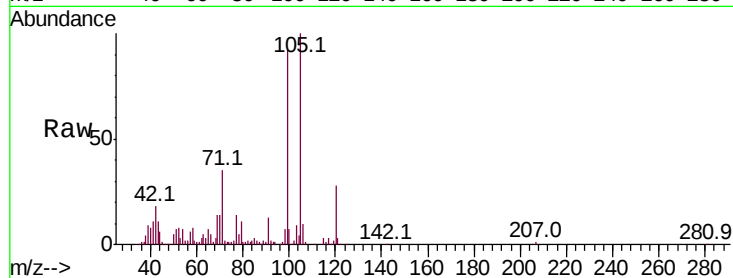
Tot Ion: 77 Resp: 44955

Ion Ratio Lower Upper

77 100

105 728.5 74.6 111.8#

106 73.2 70.2 105.2



#6

Phenol

Concen: 1.325 ng/ul

RT: 6.88 min Scan# 662

Delta R.T. -0.01 min

Lab File: BM023171.D

Acq: 15 Oct 2019 17:58

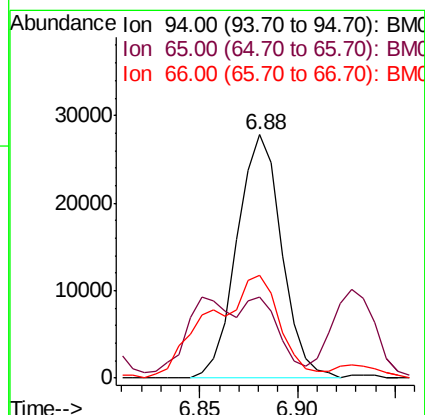
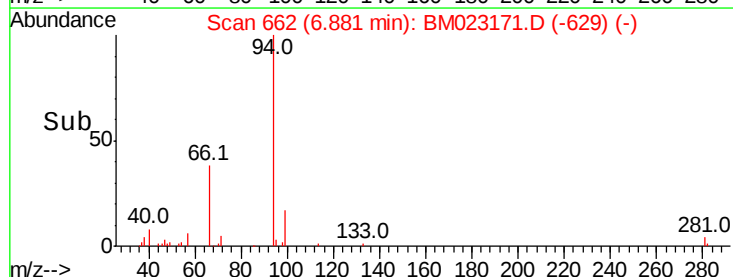
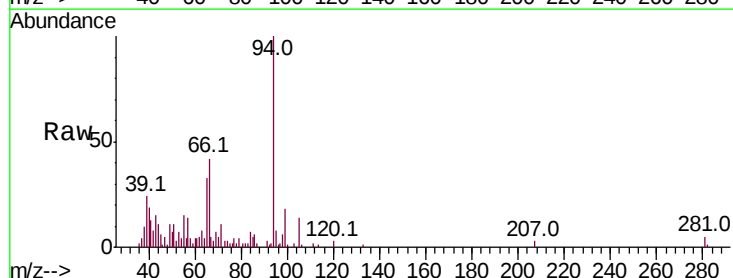
Tgt Ion: 94 Resp: 44081

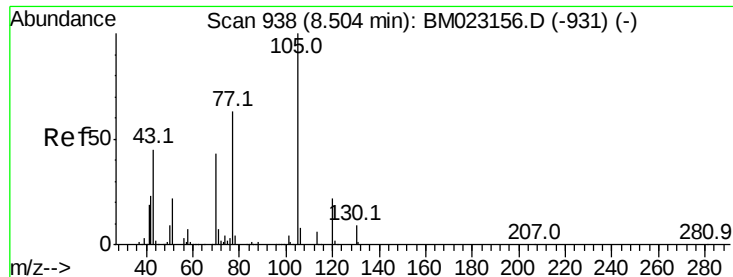
Ion Ratio Lower Upper

94 100

65 33.2 23.7 35.5

66 42.0 32.9 49.3

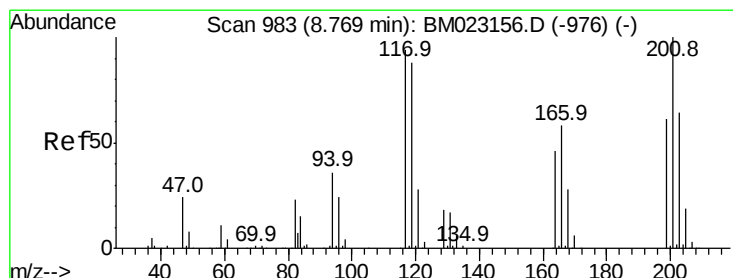
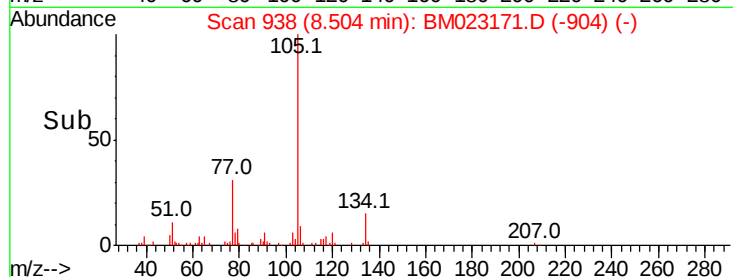
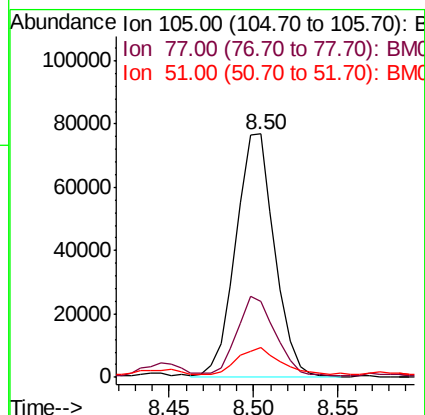
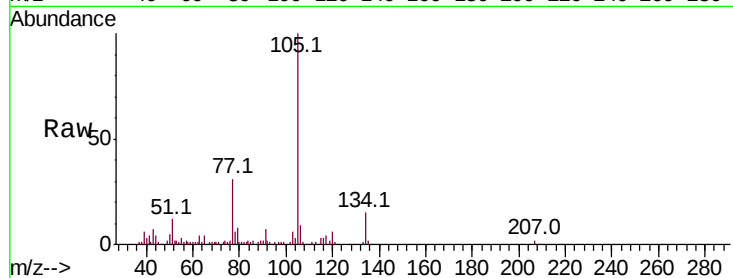




#14  
Acetophenone  
Concen: 3.056 ng/ul  
RT: 8.50 min Scan# 938  
Delta R.T. -0.00 min  
Lab File: BM023171.D  
Acq: 15 Oct 2019 17:58

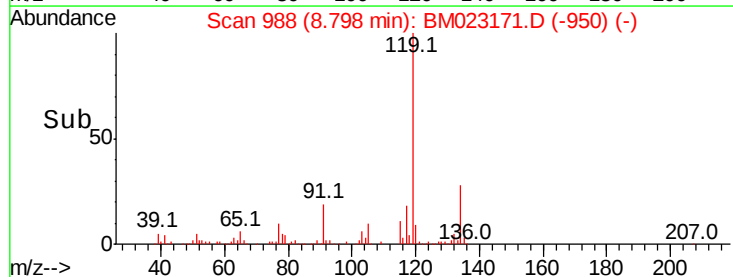
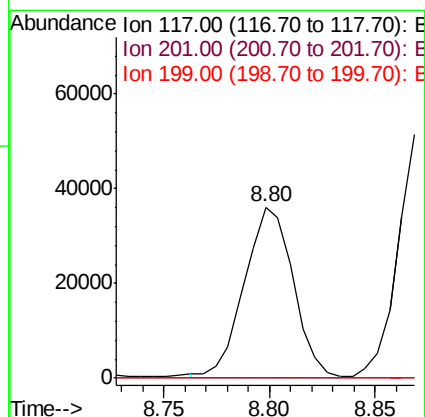
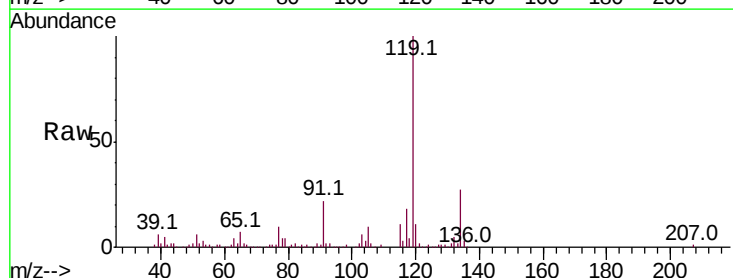
Instrument :  
BNA\_M  
ClientSampleId :

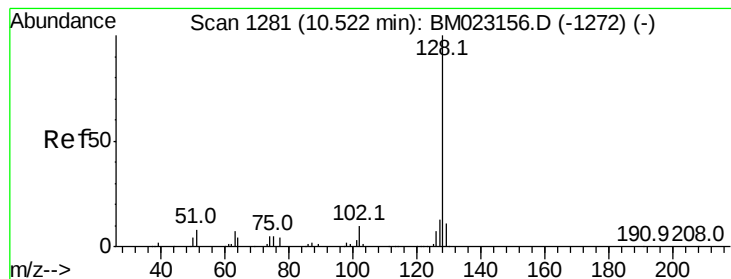
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 77      | 31.2  | 63.9  | 95.9# |
| 51      | 12.0  | 21.6  | 32.4# |



#17  
Hexachloroethane  
Concen: 5.675 ng/ul  
RT: 8.80 min Scan# 988  
Delta R.T. 0.02 min  
Lab File: BM023171.D  
Acq: 15 Oct 2019 17:58

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 201     | 0.0   | 89.4  | 134.2# |
| 199     | 0.0   | 56.3  | 84.5#  |





#28

Naphthalene

Concen: 20.805 ng/ul

RT: 10.52 min Scan# 1281

Delta R.T. -0.01 min

Lab File: BM023171.D

Acq: 15 Oct 2019 17:58

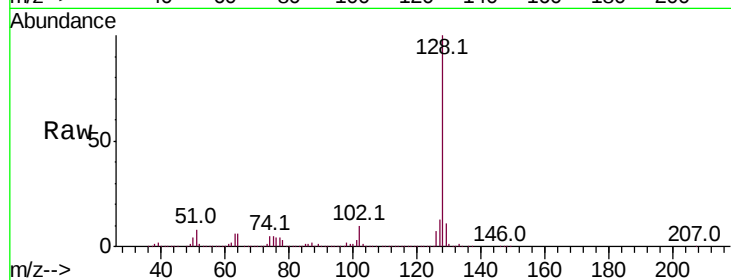
Instrument :

BNA\_M

ClientSampleId :

Tot Ion:128 Resp: 1720897

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 128 | 100   |       |       |
| 129 | 10.8  | 8.3   | 12.5  |
| 127 | 12.9  | 10.2  | 15.4  |

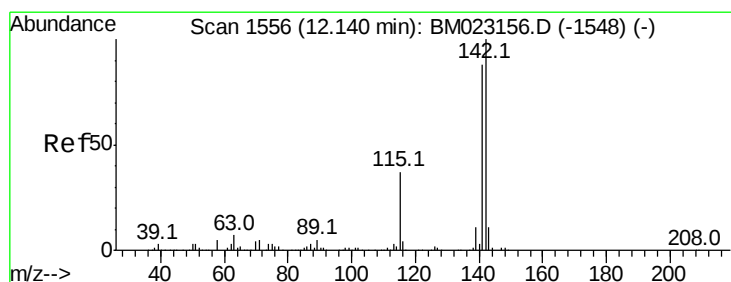
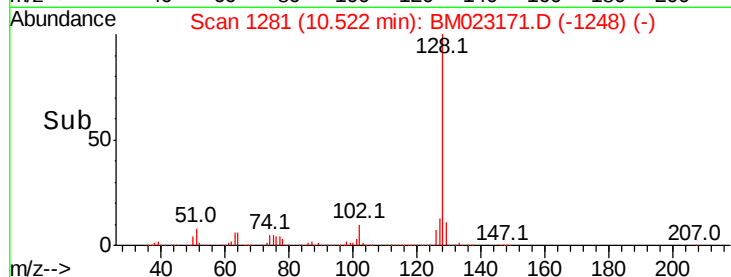
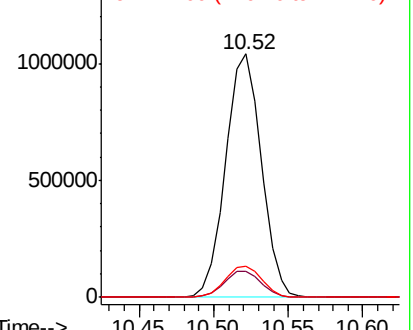


Abundance

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



#34

2-Methylnaphthalene

Concen: 9.611 ng/ul

RT: 12.14 min Scan# 1556

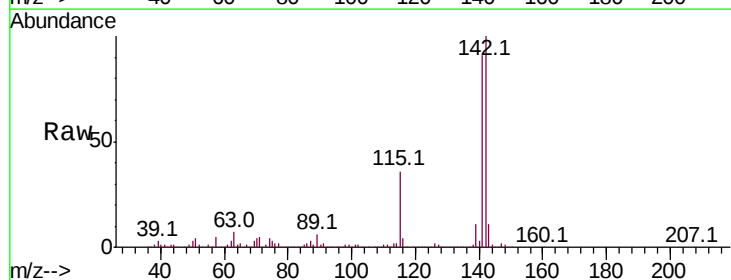
Delta R.T. -0.01 min

Lab File: BM023171.D

Acq: 15 Oct 2019 17:58

Tgt Ion:142 Resp: 591555

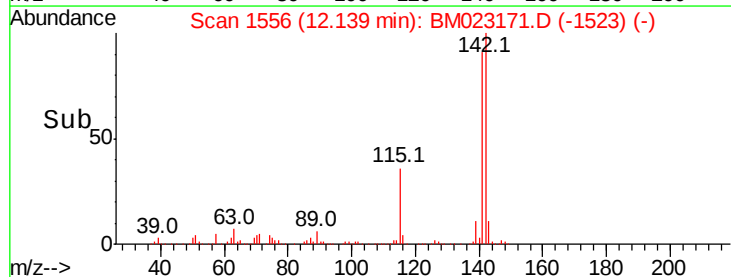
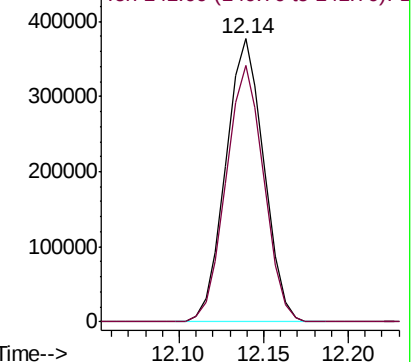
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 142 | 100   |       |       |
| 141 | 90.6  | 72.1  | 108.1 |

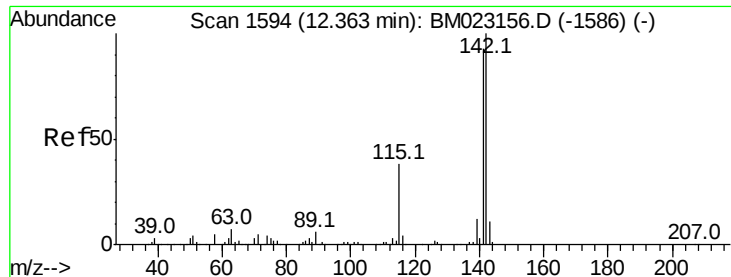


Abundance

Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#35

1-Methylnaphthalene

Concen: 6.796 ng/ul

RT: 12.36 min Scan# 1593

Delta R.T. -0.01 min

Lab File: BM023171.D

Acq: 15 Oct 2019 17:58

Instrument :

BNA\_M

ClientSampleId :

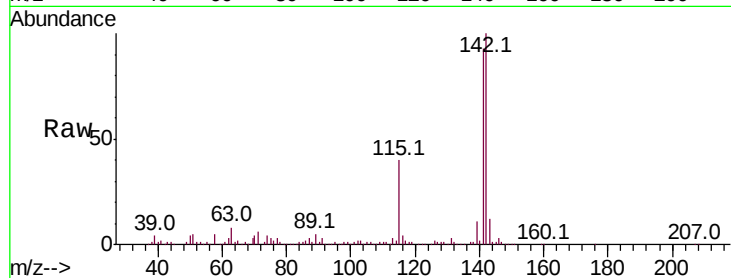
Tot Ion:142 Resp: 404817

Ion Ratio Lower Upper

142 100

141 92.8 74.2 111.2

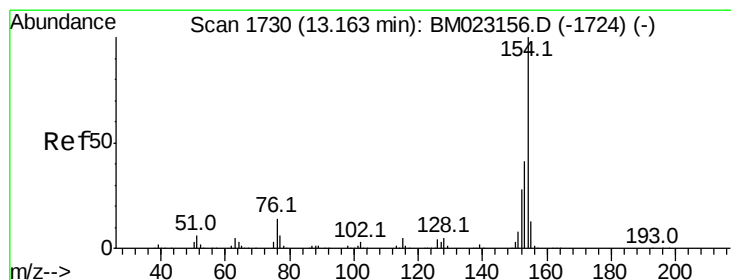
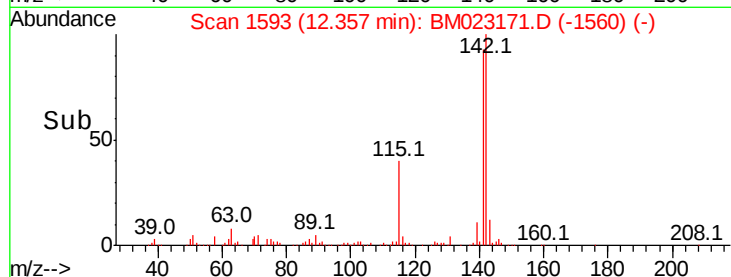
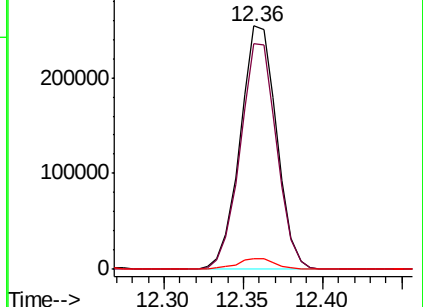
116 4.3 3.3 4.9



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 116.00 (115.70 to 116.70): E



#41

1,1'-Biphenyl

Concen: 2.603 ng/ul

RT: 13.16 min Scan# 1730

Delta R.T. -0.01 min

Lab File: BM023171.D

Acq: 15 Oct 2019 17:58

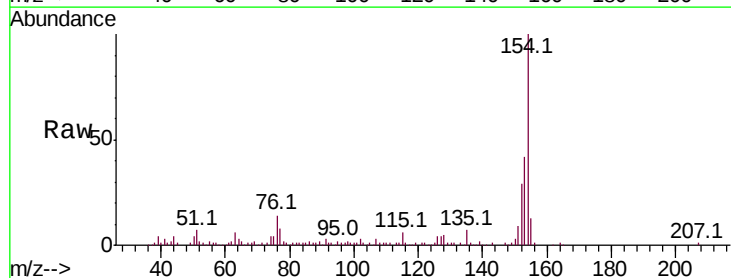
Tgt Ion:154 Resp: 206698

Ion Ratio Lower Upper

154 100

153 41.9 33.1 49.7

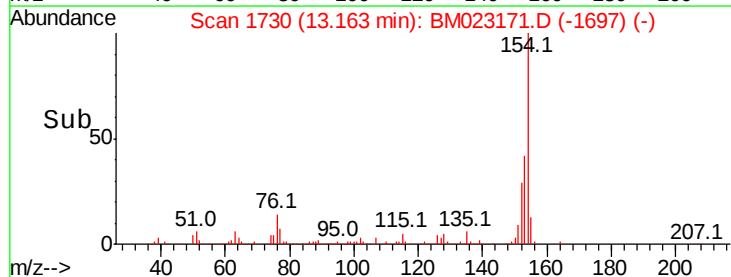
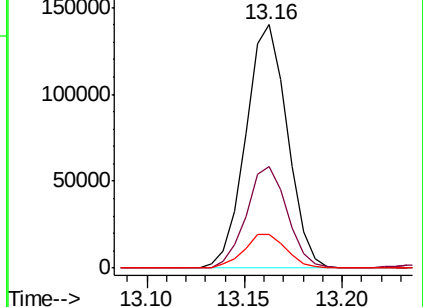
76 14.1 10.6 15.8

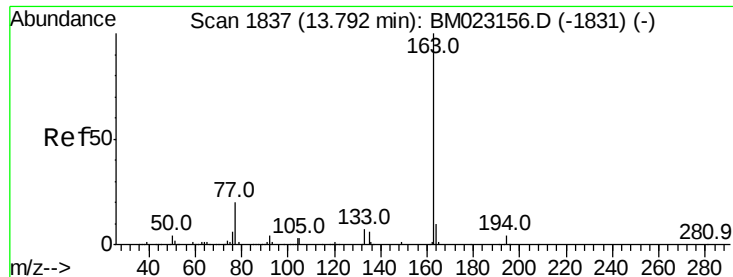


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BM

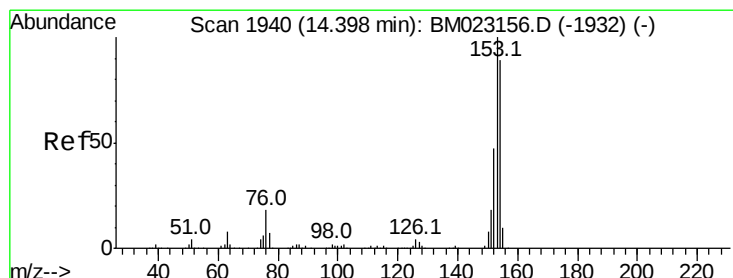
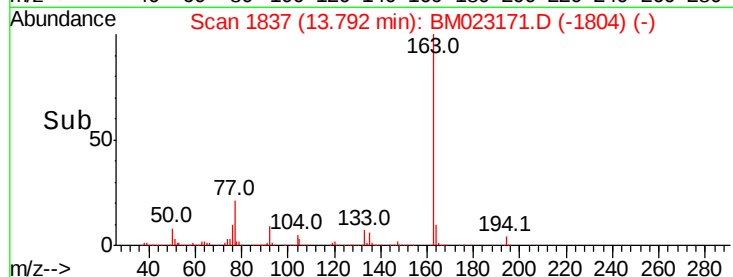
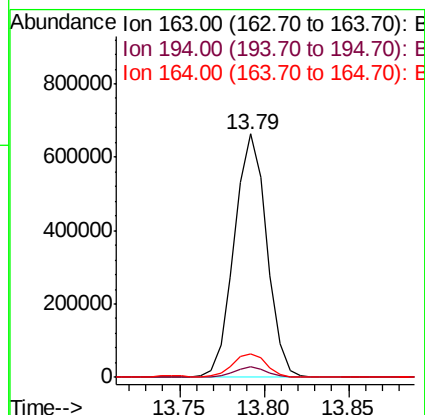
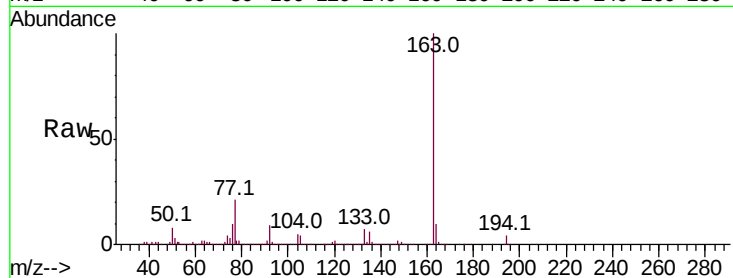




#45  
Dimethylphthalate  
Concen: 11.114 ng/ul  
RT: 13.79 min Scan# 1837  
Delta R.T. -0.01 min  
Lab File: BM023171.D  
Acq: 15 Oct 2019 17:58

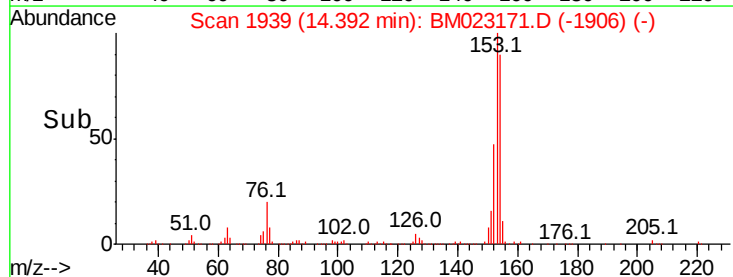
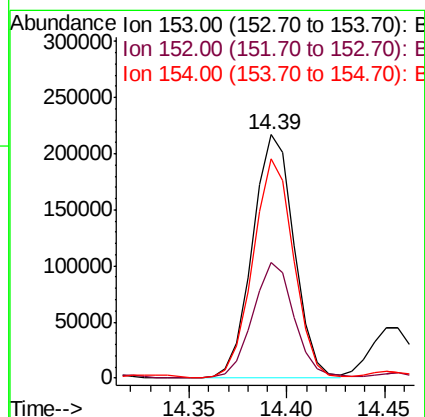
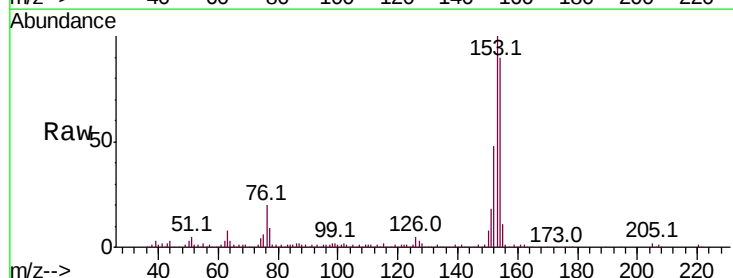
Instrument :  
BNA\_M  
ClientSampleId :

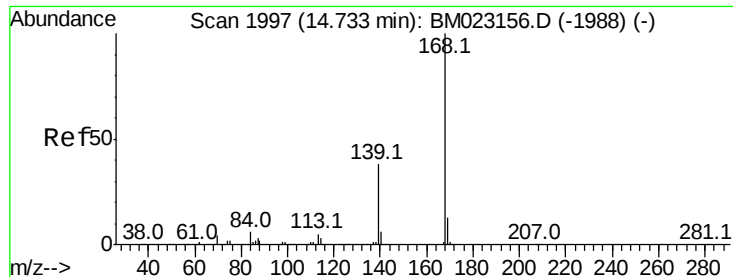
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 4.3   | 3.5   | 5.3   |
| 164     | 9.9   | 8.0   | 12.0  |



#50  
Acenaphthene  
Concen: 4.788 ng/ul  
RT: 14.39 min Scan# 1939  
Delta R.T. -0.01 min  
Lab File: BM023171.D  
Acq: 15 Oct 2019 17:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 153     | 100   |       |       |
| 152     | 47.5  | 38.0  | 57.0  |
| 154     | 90.1  | 70.4  | 105.6 |





#54

Dibenzofuran

Concen: 2.341 ng/ul

RT: 14.73 min Scan# 1996

Delta R.T. -0.01 min

Lab File: BM023171.D

Acq: 15 Oct 2019 17:58

Instrument :

BNA\_M

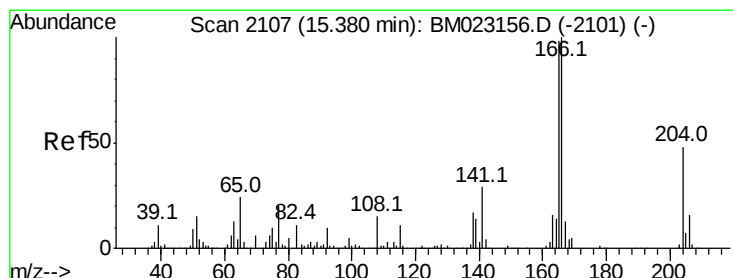
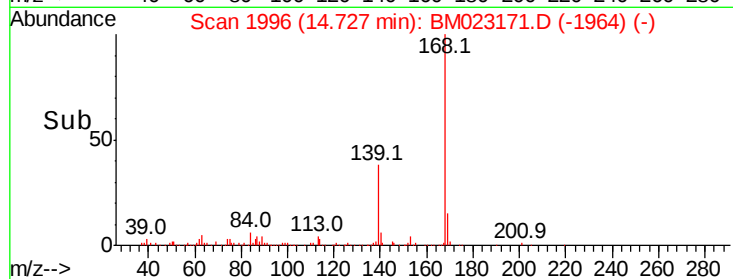
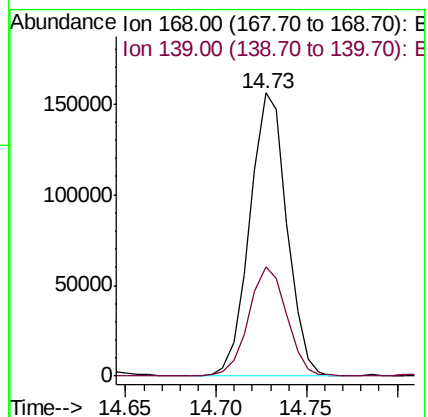
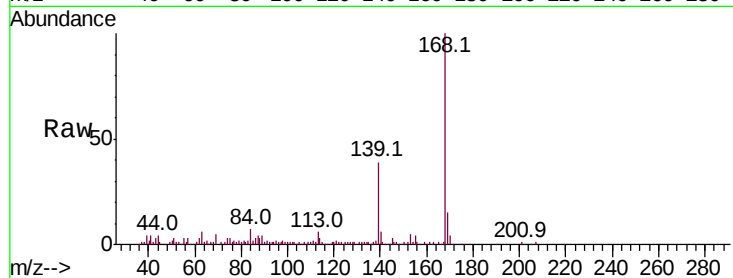
ClientSampleId :

Tot Ion:168 Resp: 221932

Ion Ratio Lower Upper

168 100

139 38.8 30.1 45.1



#59

Fluorene

Concen: 3.009 ng/ul

RT: 15.38 min Scan# 2107

Delta R.T. -0.01 min

Lab File: BM023171.D

Acq: 15 Oct 2019 17:58

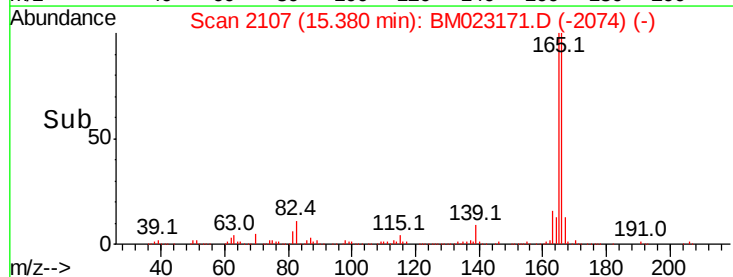
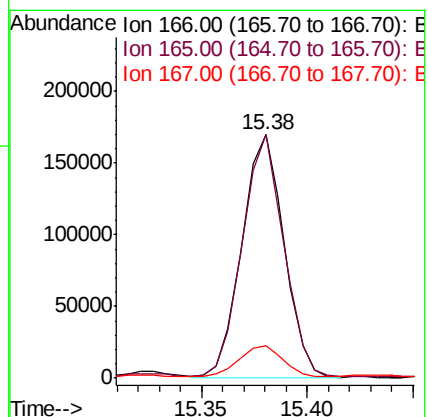
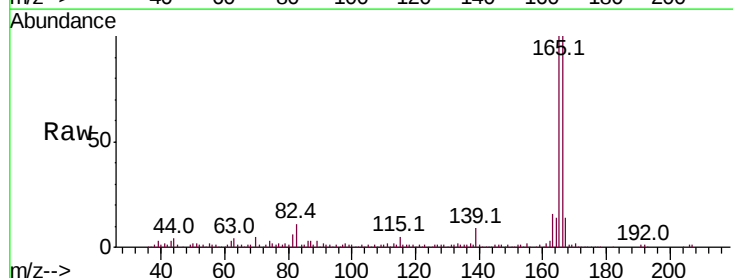
Tgt Ion:166 Resp: 234028

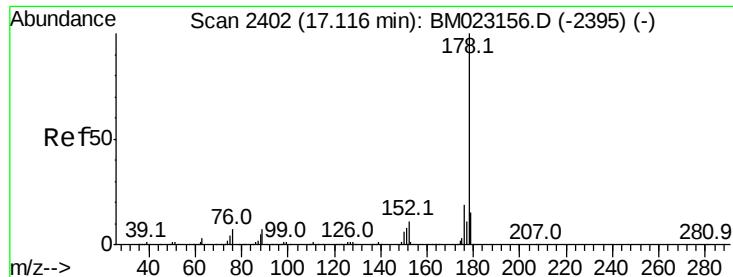
Ion Ratio Lower Upper

166 100

165 100.2 77.4 116.0

167 13.6 10.8 16.2





#70

Phenanthrene

Concen: 3.502 ng/ul

RT: 17.12 min Scan# 2402

Delta R.T. -0.01 min

Lab File: BM023171.D

Acq: 15 Oct 2019 17:58

Instrument :

BNA\_M

ClientSampleId :

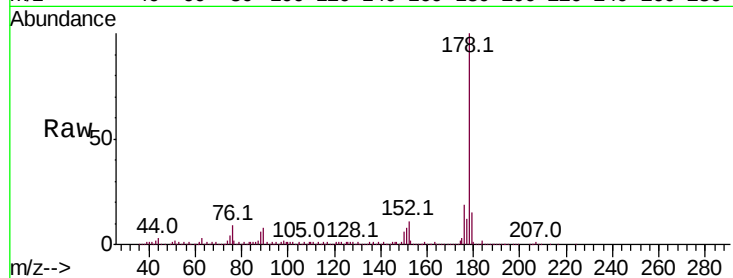
Tot Ion:178 Resp: 445762

Ion Ratio Lower Upper

178 100

179 15.0 12.3 18.5

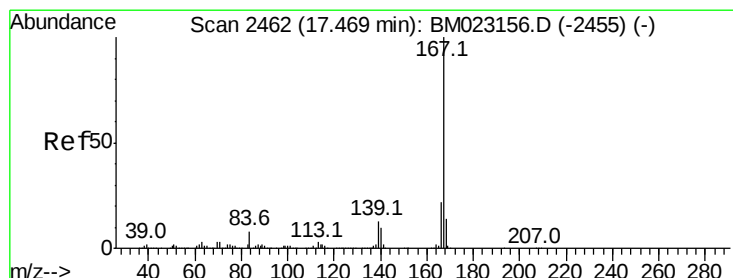
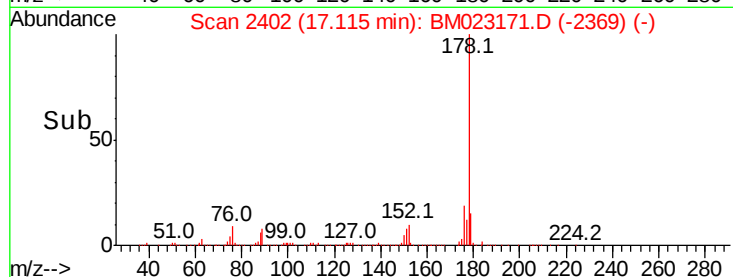
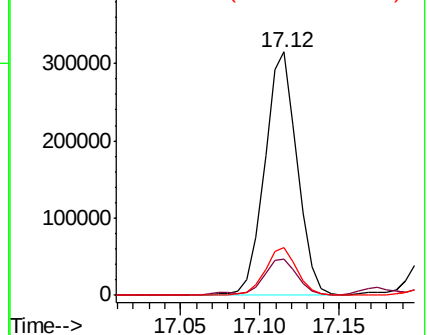
176 19.5 15.5 23.3



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



#75

Carbazole

Concen: 2.601 ng/ul

RT: 17.47 min Scan# 2462

Delta R.T. -0.01 min

Lab File: BM023171.D

Acq: 15 Oct 2019 17:58

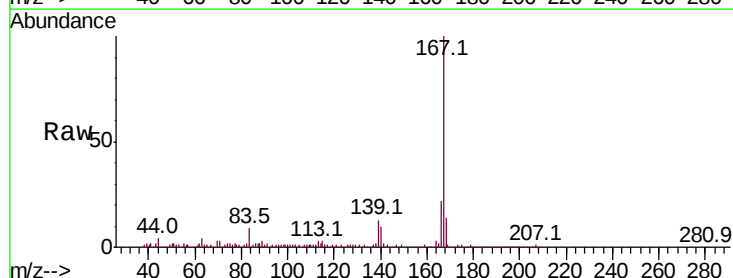
Tgt Ion:167 Resp: 305623

Ion Ratio Lower Upper

167 100

166 22.2 17.4 26.0

139 13.0 10.2 15.2



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E

