

Data Path : Z:\HPCHEM1\BNA M\DATA\BM031516\  
 Data File : BM004603.D  
 Acq On : 15 Mar 2016 18:21  
 Operator : UM/SJ  
 Sample : H1710-01  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 MS-SS-D140

Quant Time: Mar 16 05:56:49 2016  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM031516.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Mar 16 05:57:50 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.85  | 152  | 63066    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.63 | 136  | 273984   | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 14.48 | 164  | 153922   | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 17.22 | 188  | 349167   | 20.00 | ng/ul | 0.00     |
| 78) Chrysene-d12          | 21.40 | 240  | 410627   | 20.00 | ng/ul | 0.00     |
| 86) Perylene-d12          | 23.70 | 264  | 402928   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.34  | 96  | 5728   | 3.13  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.00  | 99  | 104706 | 20.21 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.17  | 67  | 65387  | 22.26 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.37  | 132 | 85765  | 20.56 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.54  | 113 | 75986  | 18.19 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.00  | 128 | 37787  | 19.83 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.72  | 143 | 40651  | 19.75 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.25 | 165 | 80872  | 20.03 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.77 | 131 | 103563 | 21.44 | ng/ul | 0.00 |
| 44) Dimethylphthalate-d6       | 13.89 | 166 | 268206 | 22.29 | ng/ul | 0.00 |
| 47) Acenaphthylene-d8          | 14.17 | 160 | 322354 | 21.85 | ng/ul | 0.00 |
| 52) 4-Nitrophenol-d4           | 14.66 | 143 | 32317  | 13.89 | ng/ul | 0.00 |
| 58) Fluorene-d10               | 15.47 | 176 | 240923 | 22.97 | ng/ul | 0.00 |
| 63) 4,6-Dinitro-2-methylphenol | 15.58 | 200 | 26129  | 14.24 | ng/ul | 0.00 |
| 71) Anthracene-d10             | 17.32 | 188 | 369100 | 22.96 | ng/ul | 0.00 |
| 79) Pyrene-d10                 | 19.62 | 212 | 412003 | 21.98 | ng/ul | 0.00 |
| 90) Benzo(a)pyrene-d12         | 23.56 | 264 | 404004 | 22.45 | ng/ul | 0.00 |

## Target Compounds

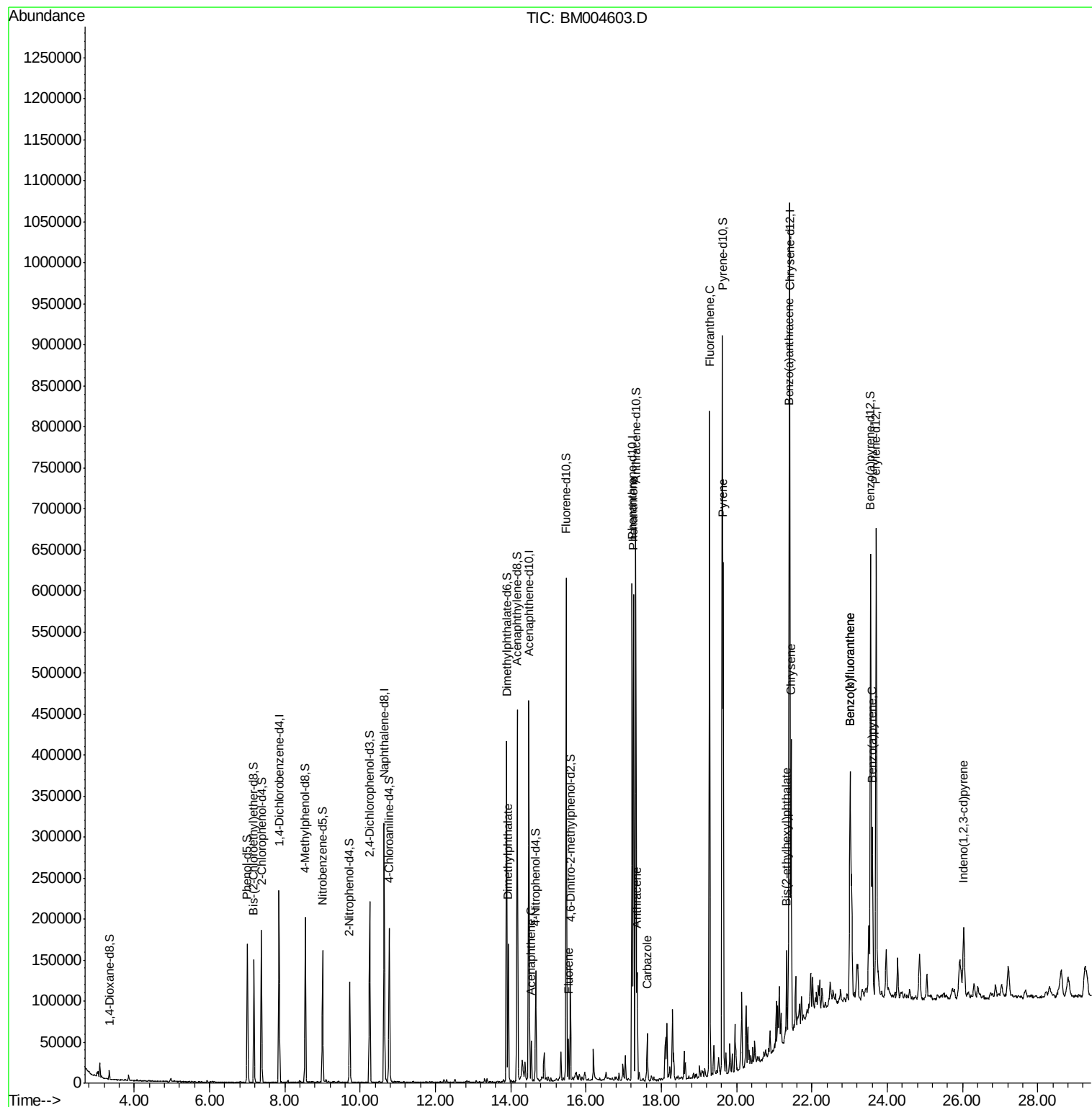
|                                |       |     |        |       |       | Ovalue |
|--------------------------------|-------|-----|--------|-------|-------|--------|
| 45) Dimethylphthalate          | 13.93 | 163 | 104392 | 8.55  | ng/ul | 99     |
| 50) Acenaphthene               | 14.54 | 153 | 20573  | 1.93  | ng/ul | 98     |
| 59) Fluorene                   | 15.53 | 166 | 23034  | 1.90  | ng/ul | 99     |
| 70) Phenanthrene               | 17.26 | 178 | 354177 | 17.75 | ng/ul | 100    |
| 72) Anthracene                 | 17.36 | 178 | 82613  | 4.11  | ng/ul | 99     |
| 75) Carbazole                  | 17.62 | 167 | 35850  | 2.00  | ng/ul | 98     |
| 77) Fluoranthene               | 19.28 | 202 | 483493 | 21.95 | ng/ul | 99     |
| 80) Pyrene                     | 19.64 | 202 | 379126 | 15.23 | ng/ul | 97     |
| 83) Benzo(a)anthracene         | 21.39 | 228 | 205118 | 8.56  | ng/ul | 99     |
| 84) Bis(2-ethylhexyl)phthalate | 21.32 | 149 | 34450  | 2.43  | ng/ul | 99     |
| 85) Chrysene                   | 21.44 | 228 | 192102 | 8.39  | ng/ul | 98     |
| 88) Benzo(b)fluoranthene       | 23.01 | 252 | 219208 | 9.12  | ng/ul | 98     |
| 89) Benzo(k)fluoranthene       | 23.01 | 252 | 219208 | 9.60  | ng/ul | 98     |
| 91) Benzo(a)pyrene             | 23.60 | 252 | 124102 | 5.39  | ng/ul | 97     |
| 92) Indeno(1,2,3-cd)pyrene     | 26.03 | 276 | 82102  | 3.17  | ng/ul | 95     |

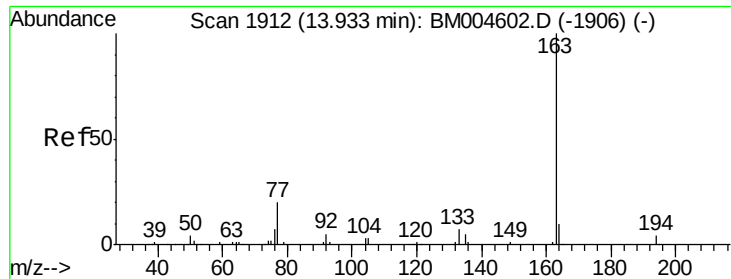
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA M\DATA\BM031516\  
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Misc :  
ALS Vial : 12 Sample Multiplier: 1

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Quant Title : SVOA CALIBRATION  
QLast Update : Wed Mar 16 05:57:50 2016  
Response via : Initial Calibration

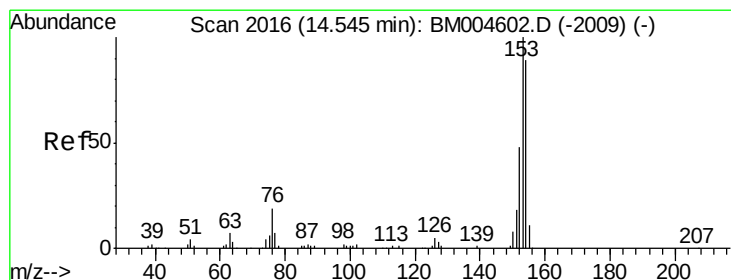
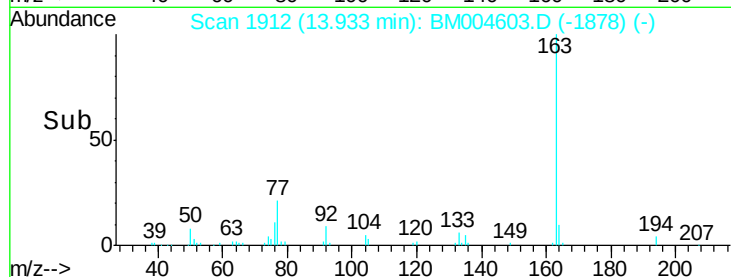
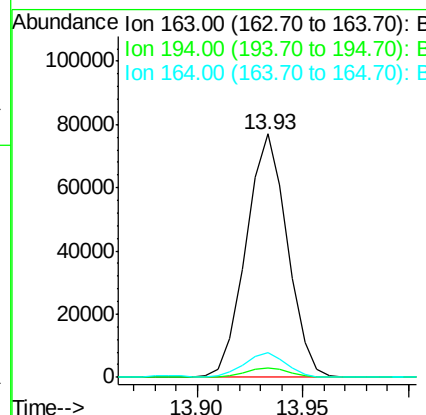
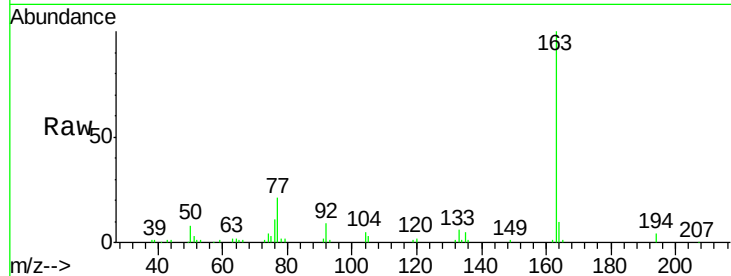




#45  
Dimethylphthalate  
Concen: 8.55 ng/ul  
RT: 13.93 min Scan# 1912  
Delta R.T. -0.00 min  
Lab File: BM004603.D  
Acq: 15 Mar 2016 18:21

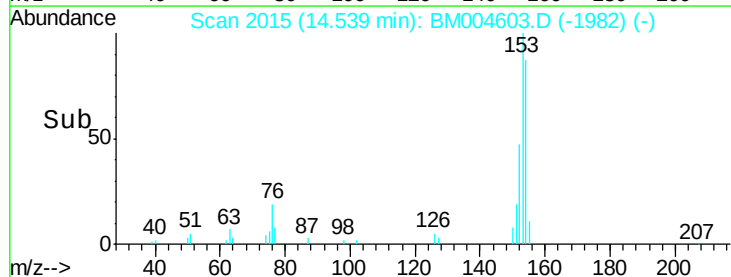
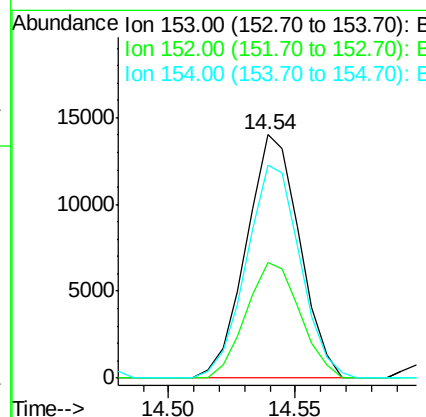
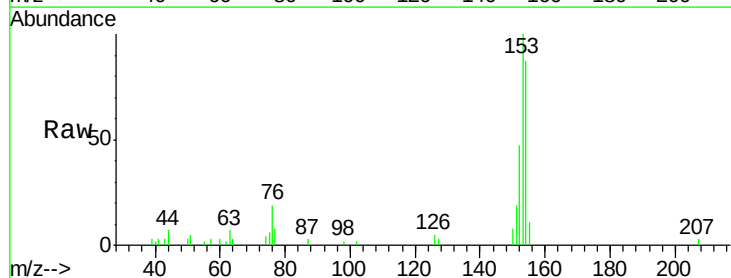
Instrument :  
BNA\_M  
ClientSampleId :  
MS-SS-D140

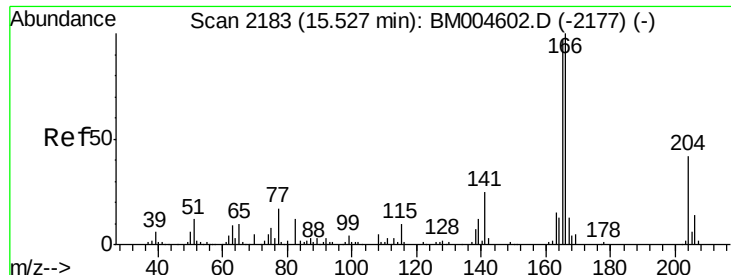
Tot Ion:163 Resp: 104392  
Ion Ratio Lower Upper  
163 100  
194 4.0 3.2 4.8  
164 10.3 7.8 11.8



#50  
Acenaphthene  
Concen: 1.93 ng/ul  
RT: 14.54 min Scan# 2015  
Delta R.T. -0.01 min  
Lab File: BM004603.D  
Acq: 15 Mar 2016 18:21

Tgt Ion:153 Resp: 20573  
Ion Ratio Lower Upper  
153 100  
152 47.3 38.3 57.5  
154 87.2 71.8 107.8





#59

Fluorene

Concen: 1.90 ng/ul

RT: 15.53 min Scan# 2183

Delta R.T. -0.00 min

Lab File: BM004603.D

Acq: 15 Mar 2016 18:21

Instrument :

BNA\_M

ClientSampleId :

MS-SS-D140

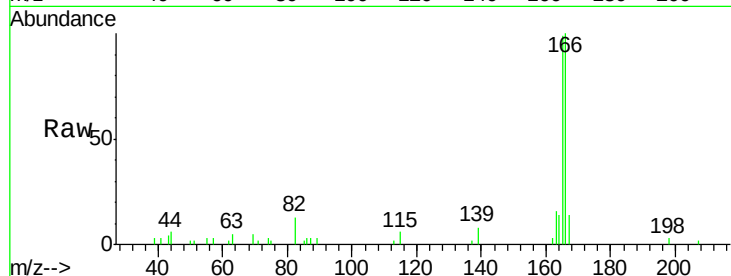
Tot Ion:166 Resp: 23034

Ion Ratio Lower Upper

166 100

165 99.1 78.5 117.7

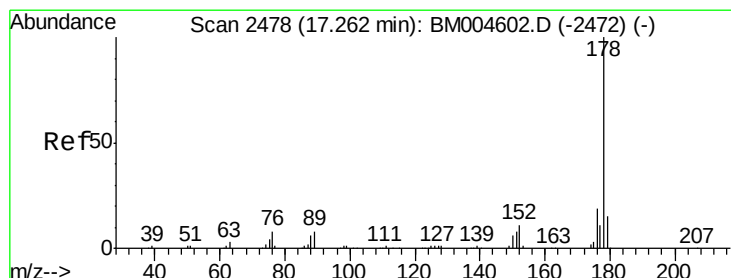
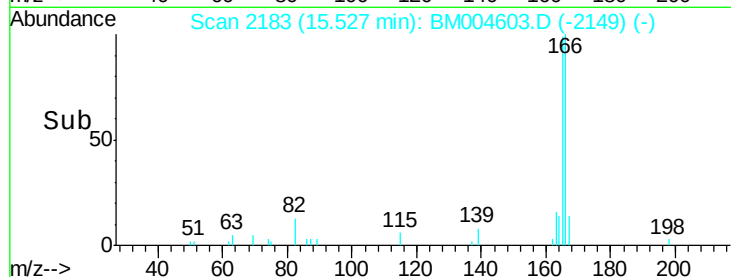
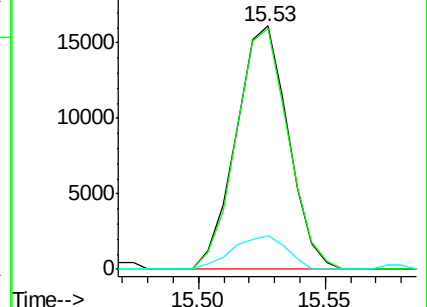
167 13.8 10.7 16.1



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



#70

Phenanthrene

Concen: 17.75 ng/ul

RT: 17.26 min Scan# 2478

Delta R.T. -0.00 min

Lab File: BM004603.D

Acq: 15 Mar 2016 18:21

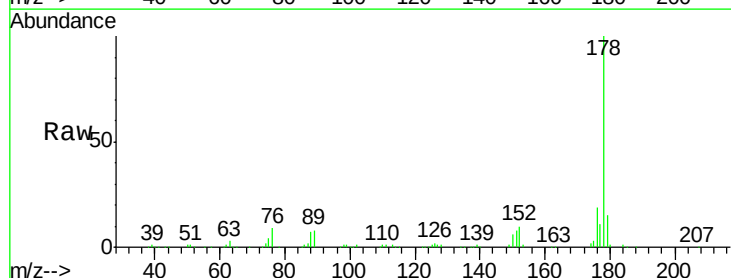
Tgt Ion:178 Resp: 354177

Ion Ratio Lower Upper

178 100

179 15.4 12.2 18.4

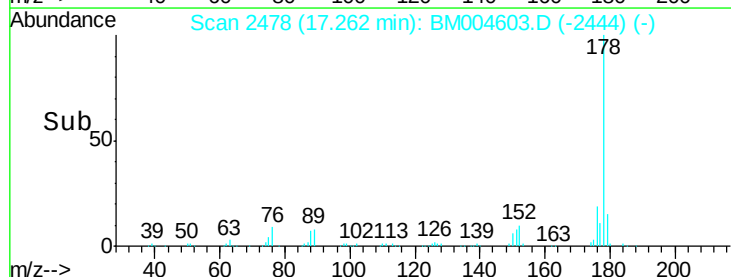
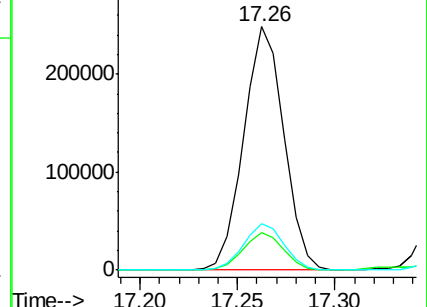
176 19.2 15.6 23.4

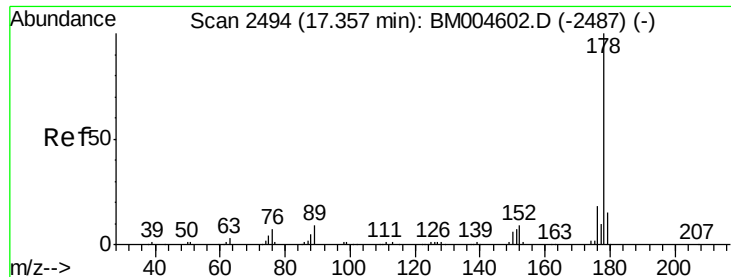


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#72

Anthracene

Concen: 4.11 ng/ul

RT: 17.36 min Scan# 2494

Delta R.T. -0.00 min

Lab File: BM004603.D

Acq: 15 Mar 2016 18:21

Instrument :

BNA\_M

ClientSampleId :

MS-SS-D140

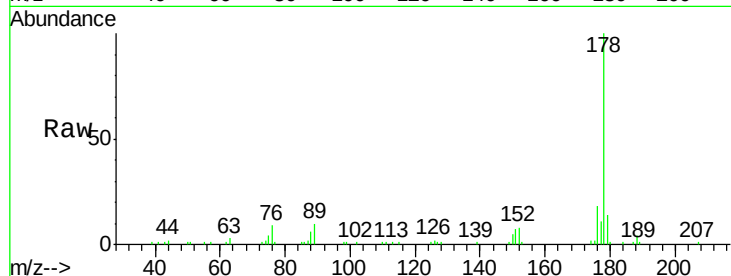
Tot Ion:178 Resp: 82613

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 179 | 14.1  | 12.1  | 18.1  |
| 176 | 18.3  | 14.8  | 22.2  |

178 100

179 14.1 12.1 18.1

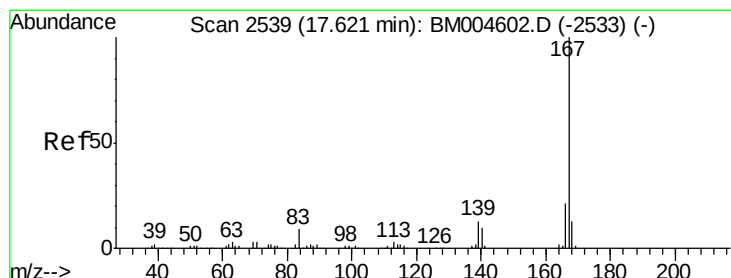
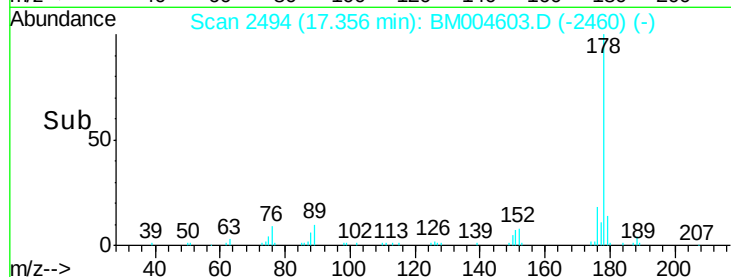
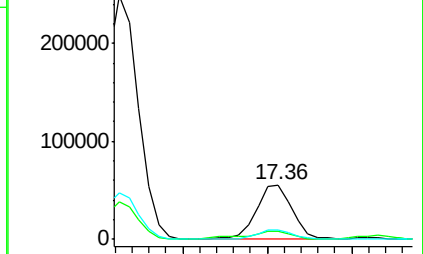
176 18.3 14.8 22.2



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: 2.00 ng/ul

RT: 17.62 min Scan# 2539

Delta R.T. -0.00 min

Lab File: BM004603.D

Acq: 15 Mar 2016 18:21

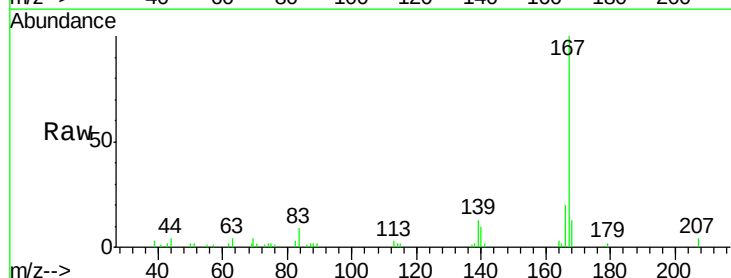
Tgt Ion:167 Resp: 35850

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 167 | 100   |       |       |
| 166 | 20.3  | 17.0  | 25.6  |
| 139 | 13.4  | 11.0  | 16.4  |

167 100

166 20.3 17.0 25.6

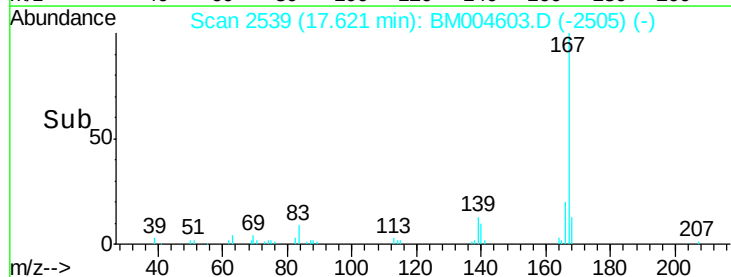
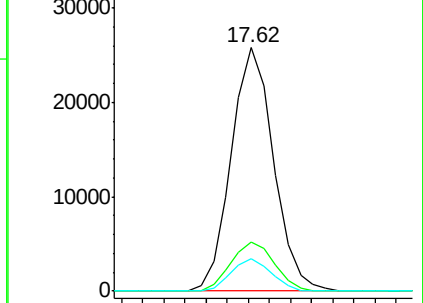
139 13.4 11.0 16.4

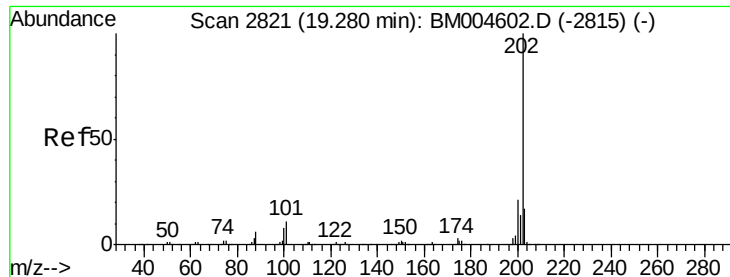


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E

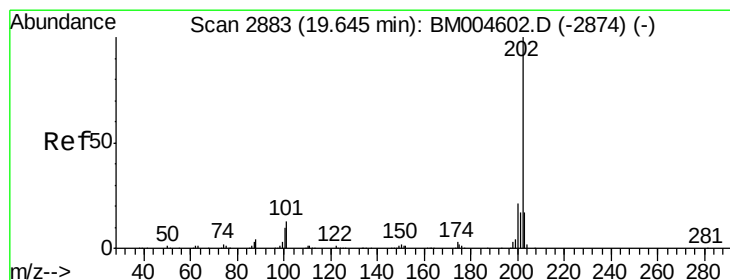
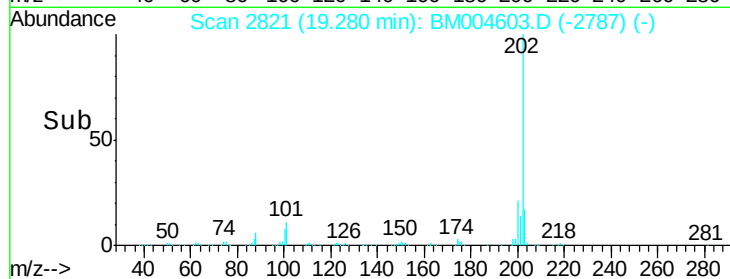
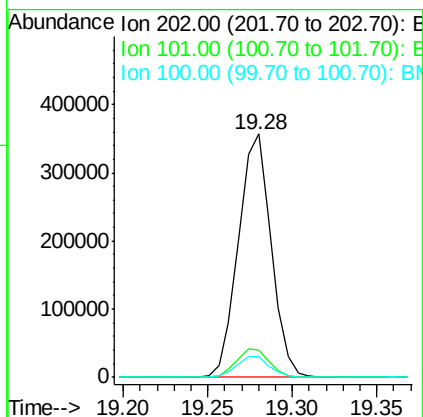
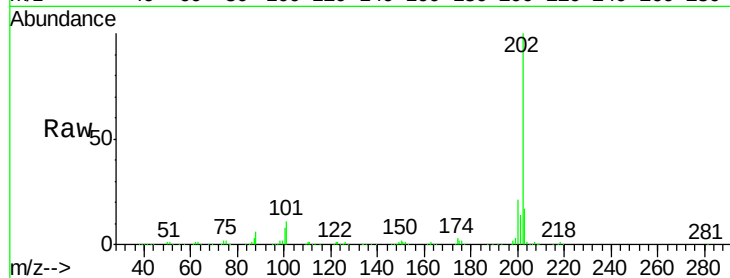




#77  
 Fluoranthene  
 Concen: 21.95 ng/ul  
 RT: 19.28 min Scan# 2821  
 Delta R.T. -0.00 min  
 Lab File: BM004603.D  
 Acq: 15 Mar 2016 18:21

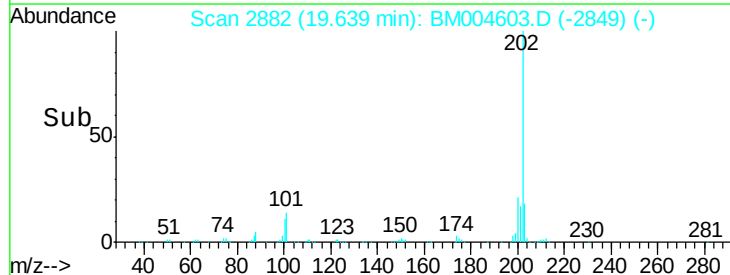
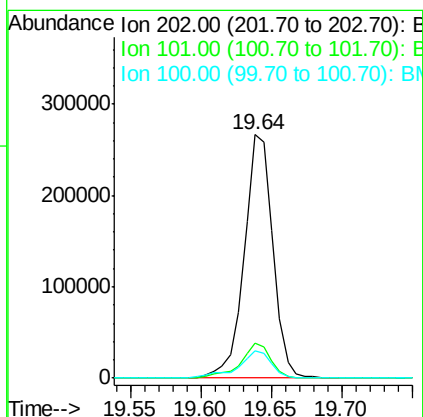
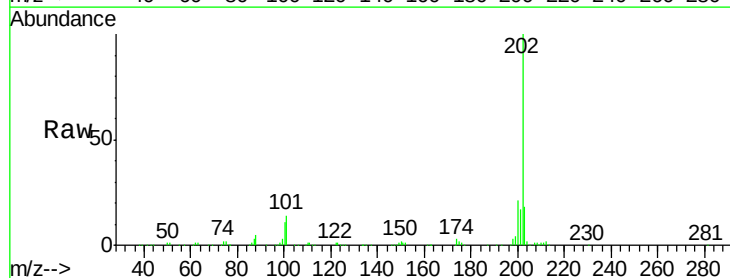
Instrument :  
 BNA\_M  
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 MS-SS-D140

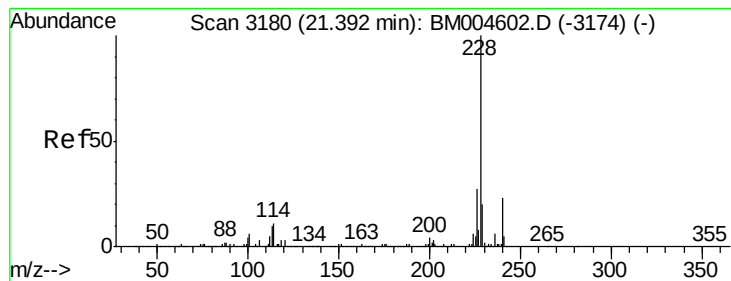
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 11.4  | 8.8   | 13.2  |
| 100     | 8.3   | 6.6   | 9.8   |



#80  
 Pyrene  
 Concen: 15.23 ng/ul  
 RT: 19.64 min Scan# 2882  
 Delta R.T. -0.01 min  
 Lab File: BM004603.D  
 Acq: 15 Mar 2016 18:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 14.1  | 10.2  | 15.2  |
| 100     | 11.3  | 8.5   | 12.7  |





#83

Benzo(a)anthracene

Concen: 8.56 ng/ul

RT: 21.39 min Scan# 3179

Delta R.T. -0.01 min

Lab File: BM004603.D

Acq: 15 Mar 2016 18:21

Instrument :

BNA\_M

ClientSampleId :

MS-SS-D140

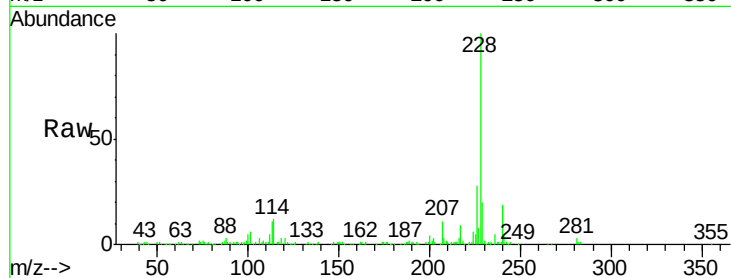
Tot Ion:228 Resp: 205118

Ion Ratio Lower Upper

228 100

229 20.0 15.7 23.5

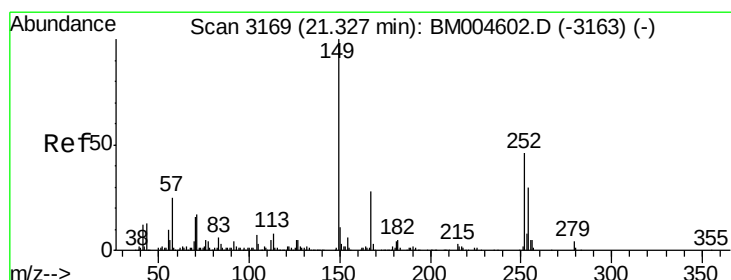
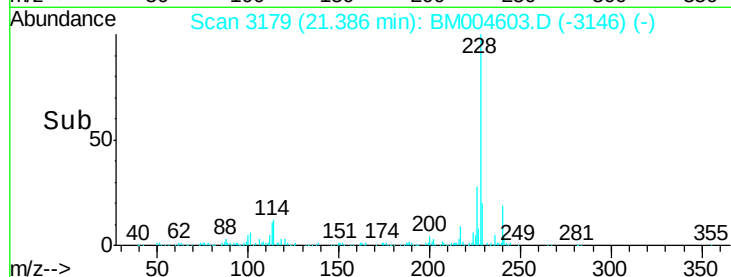
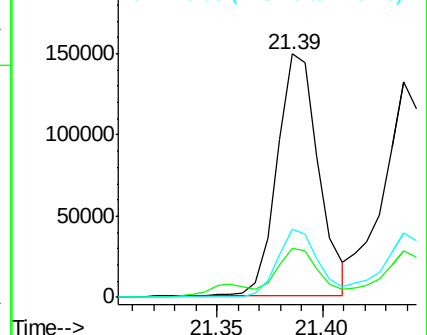
226 27.9 21.8 32.6



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E



#84

Bis(2-ethylhexyl)phthalate

Concen: 2.43 ng/ul

RT: 21.32 min Scan# 3168

Delta R.T. -0.01 min

Lab File: BM004603.D

Acq: 15 Mar 2016 18:21

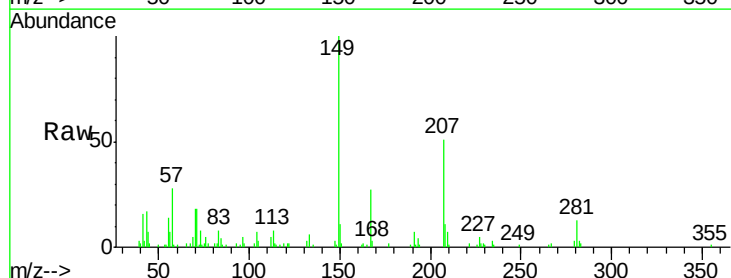
Tgt Ion:149 Resp: 34450

Ion Ratio Lower Upper

149 100

167 26.6 21.6 32.4

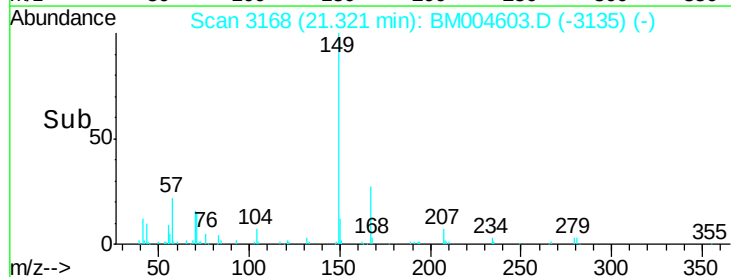
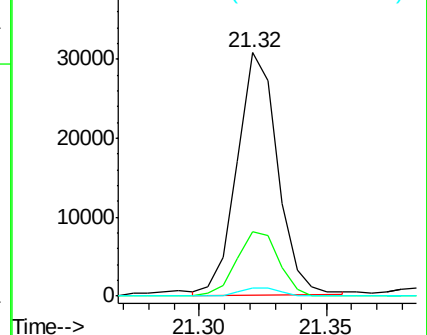
279 3.3 3.0 4.4

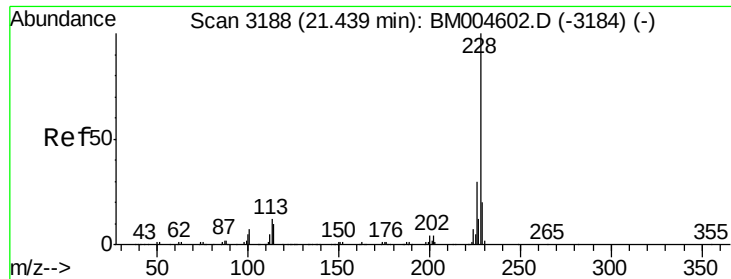


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#85

Chrysene

Concen: 8.39 ng/ul

RT: 21.44 min Scan# 3188

Delta R.T. -0.00 min

Lab File: BM004603.D

Acq: 15 Mar 2016 18:21

Instrument :

BNA\_M

ClientSampleId :

MS-SS-D140

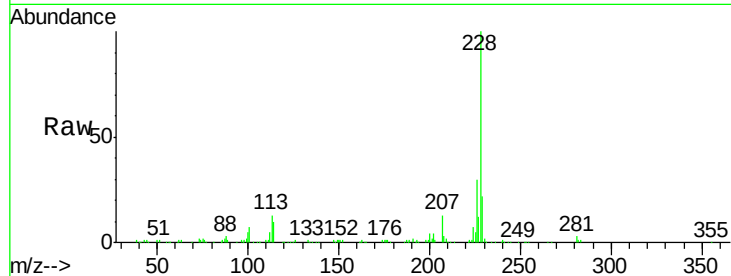
Tot Ion:228 Resp: 192102

Ion Ratio Lower Upper

228 100

226 30.1 24.0 36.0

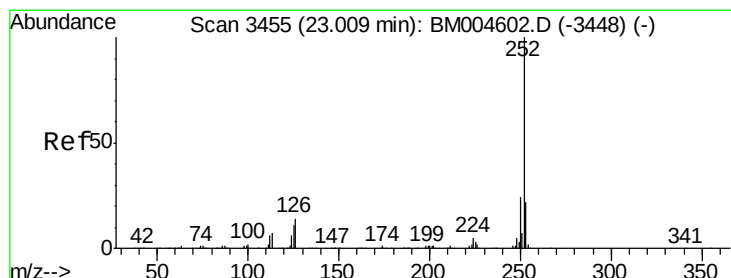
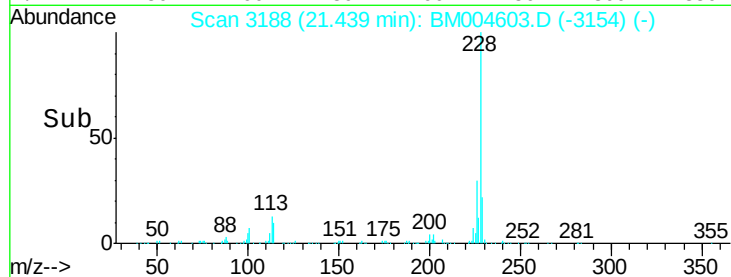
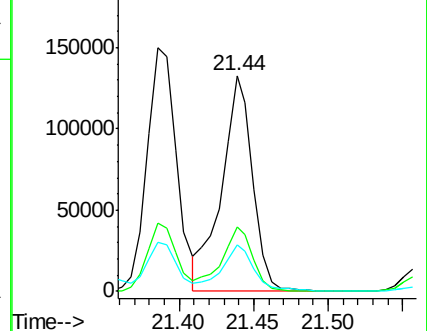
229 21.8 15.6 23.4



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#88

Benzo(b)fluoranthene

Concen: 9.12 ng/ul

RT: 23.01 min Scan# 3455

Delta R.T. -0.00 min

Lab File: BM004603.D

Acq: 15 Mar 2016 18:21

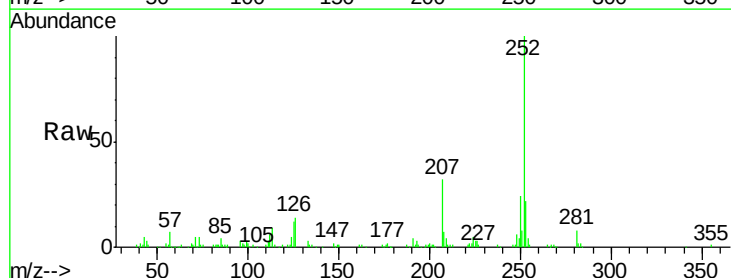
Tgt Ion:252 Resp: 219208

Ion Ratio Lower Upper

252 100

253 22.4 17.5 26.3

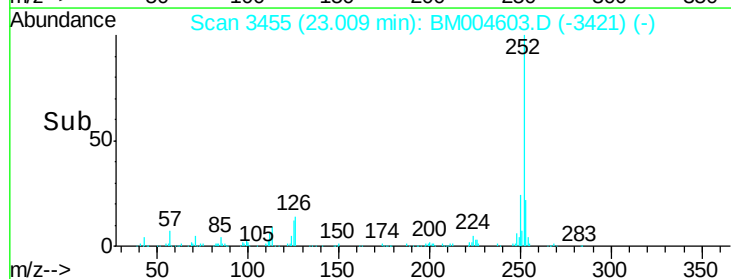
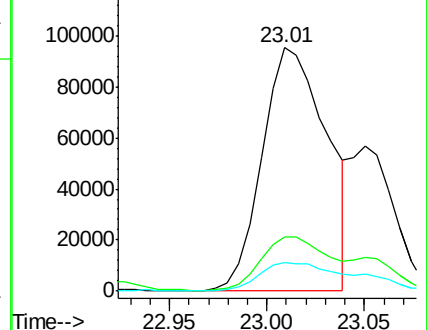
125 11.6 8.5 12.7



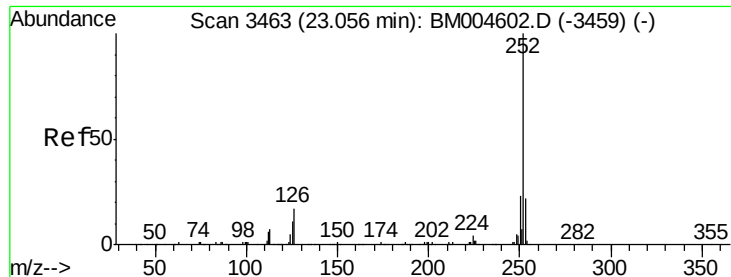
Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E







#89

Benzo(k)fluoranthene

Concen: 9.60 ng/ul

RT: 23.01 min Scan# 3455

Delta R.T. -0.05 min

Lab File: BM004603.D

Acq: 15 Mar 2016 18:21

Instrument :

BNA\_M

ClientSampleId :

MS-SS-D140

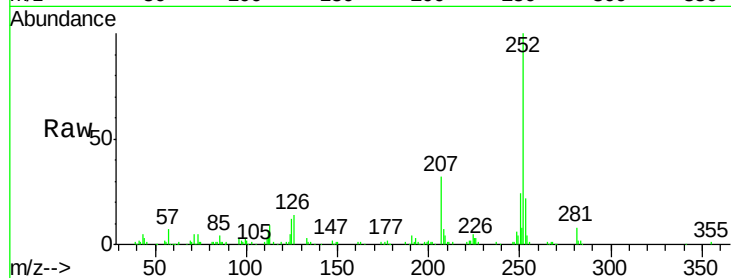
Tot Ion:252 Resp: 219208

Ion Ratio Lower Upper

252 100

253 22.4 17.3 25.9

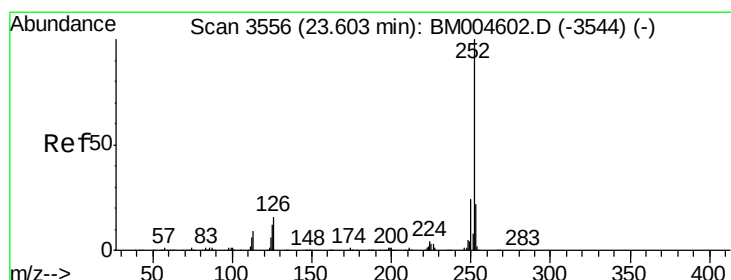
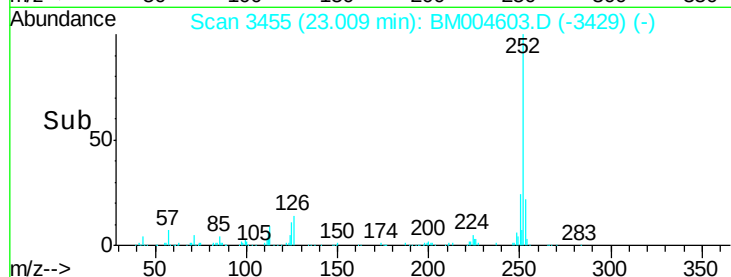
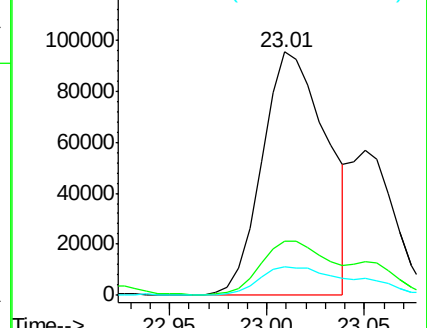
125 11.6 8.2 12.2



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#91

Benzo(a)pyrene

Concen: 5.39 ng/ul

RT: 23.60 min Scan# 3556

Delta R.T. -0.00 min

Lab File: BM004603.D

Acq: 15 Mar 2016 18:21

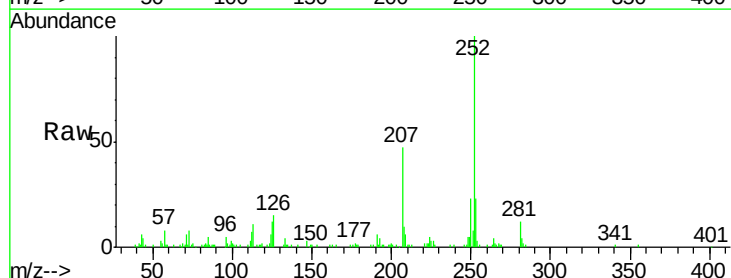
Tgt Ion:252 Resp: 124102

Ion Ratio Lower Upper

252 100

253 23.1 17.2 25.8

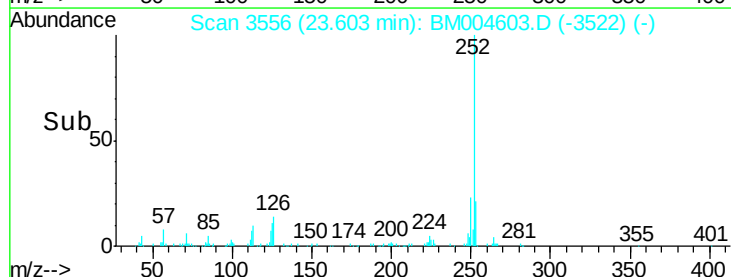
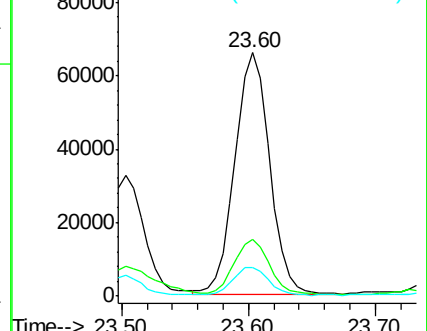
125 11.7 9.0 13.6

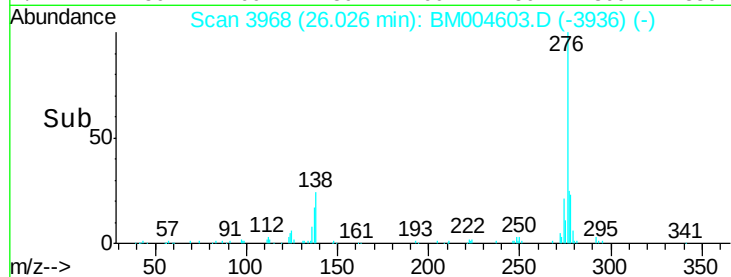
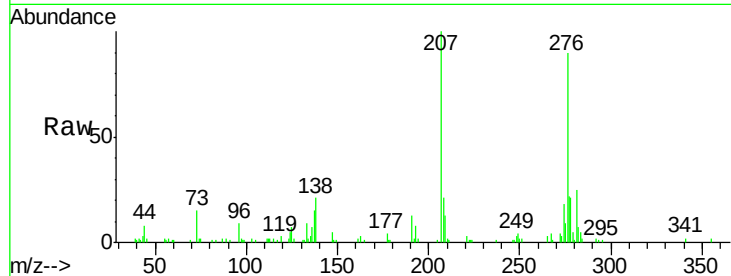
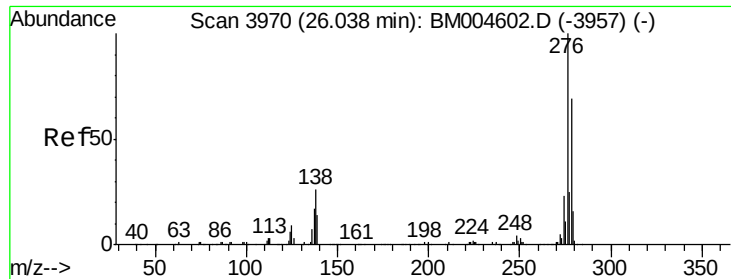


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#92

Indeno(1,2,3-cd)pyrene

Concen: 3.17 ng/ul

RT: 26.03 min Scan# 3968

Delta R.T. -0.01 min

Lab File: BM004603.D

Acq: 15 Mar 2016 18:21

Instrument :

BNA\_M

ClientSampleId :

MS-SS-D140

Tot Ion: 276 Resp: 82102

Ion Ratio Lower Upper

276 100

138 23.0 22.3 33.5

277 24.7 20.2 30.2

