

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA\_M\DATA\BM062617\  
 Data File : BM010756.D  
 Acq On : 26 Jun 2017 21:39  
 Operator : SJ/JU  
 Sample : I3756-07  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C0AD8

Manual Integrations  
 APPROVED

mohammad  
 6/28/2017 7:54:02 AM

Quant Time: Jun 27 02:12:04 2017  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM062017.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Jun 27 01:28:19 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.46  | 152  | 76754    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.22 | 136  | 342495   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.11 | 164  | 237136   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 16.86 | 188  | 570164   | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.08 | 240  | 628720   | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 23.22 | 264  | 454158   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |       |       |      |
|--------------------------------|-------|-----|---------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.08  | 96  | 3971    | 2.96  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.65  | 99  | 128457  | 17.57 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 6.81  | 67  | 74114   | 17.76 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.00  | 132 | 101437  | 19.78 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.16  | 113 | 102374  | 16.89 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.60  | 128 | 52551   | 21.51 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.32  | 143 | 63628   | 22.61 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 9.85  | 165 | 128360  | 21.66 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.36 | 131 | 65495   | 10.49 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 13.53 | 166 | 464993  | 22.34 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 13.79 | 160 | 537533  | 22.20 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.32 | 143 | 69016   | 18.84 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.11 | 176 | 402323  | 22.36 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.23 | 200 | 72282   | 20.64 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 16.96 | 188 | 618126m | 22.45 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.27 | 212 | 727678  | 24.91 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 23.08 | 264 | 509177  | 23.20 | ng/ul | 0.00 |

## Target Compounds

|                          |       |     |        |        | Qvalue |    |
|--------------------------|-------|-----|--------|--------|--------|----|
| 44) Dimethylphthalate    | 13.57 | 163 | 155228 | 7.607  | ng/ul  | 97 |
| 49) Acenaphthene         | 14.17 | 153 | 19266  | 1.238  | ng/ul  | 97 |
| 53) Dibenzofuran         | 14.51 | 168 | 42939  | 1.823  | ng/ul  | 97 |
| 58) Fluorene             | 15.16 | 166 | 87082  | 4.415  | ng/ul  | 99 |
| 69) Phenanthrene         | 16.90 | 178 | 948108 | 31.278 | ng/ul  | 99 |
| 71) Anthracene           | 16.99 | 178 | 147098 | 4.710  | ng/ul  | 96 |
| 72) Carbazole            | 17.27 | 167 | 101830 | 3.738  | ng/ul  | 97 |
| 74) Fluoranthene         | 18.93 | 202 | 978793 | 25.056 | ng/ul# | 97 |
| 77) Pyrene               | 19.30 | 202 | 645049 | 17.763 | ng/ul# | 97 |
| 80) Benzo(a)anthracene   | 21.06 | 228 | 223919 | 6.116  | ng/ul  | 96 |
| 82) Chrysene             | 21.12 | 228 | 179209 | 5.490  | ng/ul  | 97 |
| 85) Benzo(b)fluoranthene | 22.58 | 252 | 122553 | 4.157  | ng/ul# | 99 |
| 86) Benzo(k)fluoranthene | 22.62 | 252 | 40106m | 1.435  | ng/ul  |    |
| 88) Benzo(a)pyrene       | 23.12 | 252 | 64753  | 2.386  | ng/ul# | 99 |

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

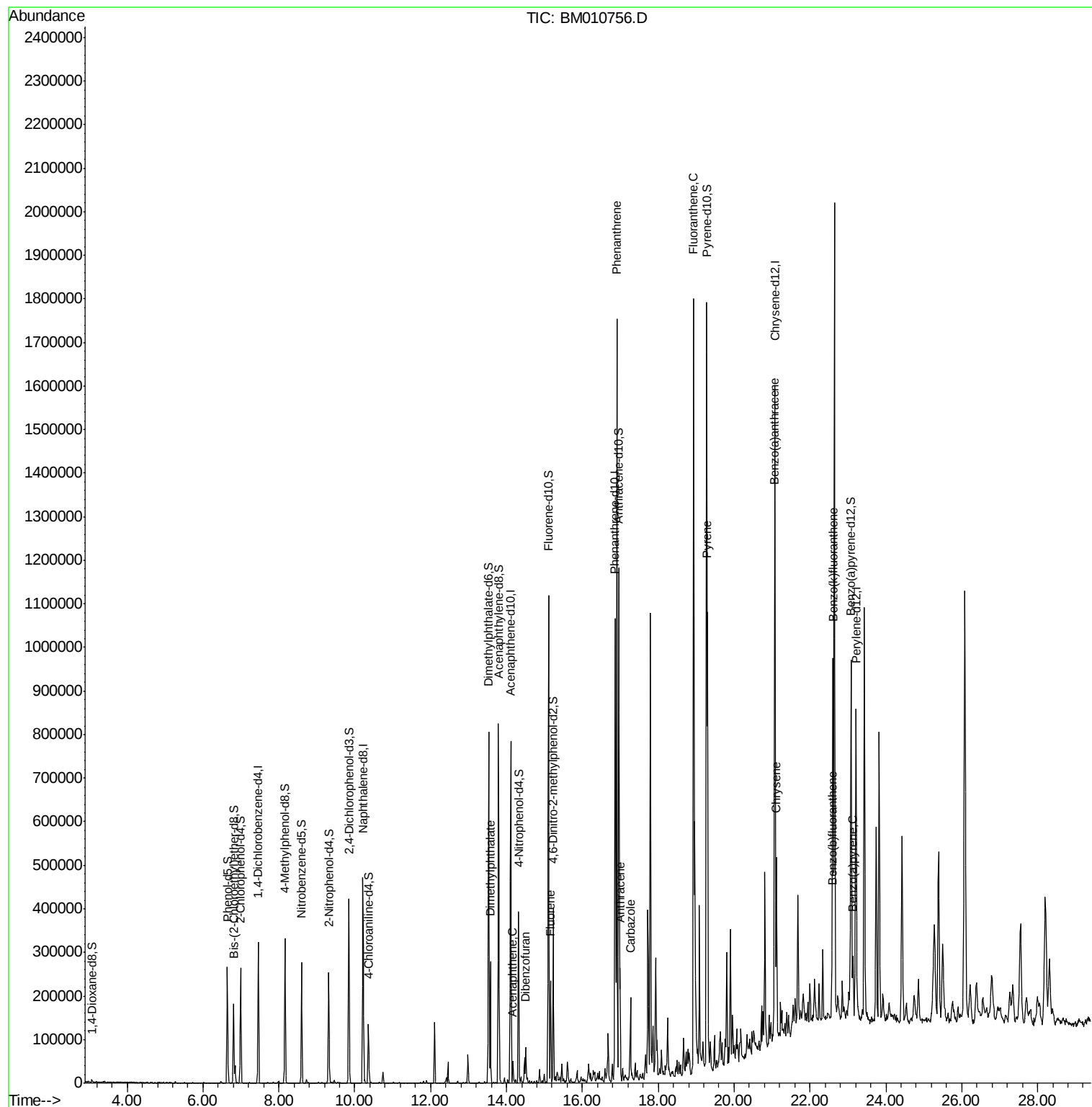
Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA\_M\DATA\BM062617\  
Data File : BM010756.D  
Acq On : 26 Jun 2017 21:39  
Operator : SJ/JU  
Sample : I3756-07  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

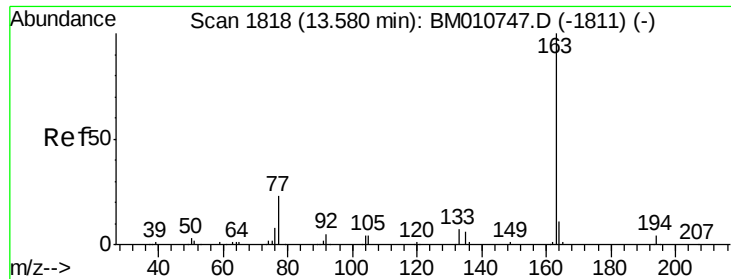
Instrument :  
BNA\_M  
ClientSampleId :  
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Quant Time: Jun 27 02:12:04 2017  
Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM062017.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Tue Jun 27 01:28:19 2017  
Response via : Initial Calibration





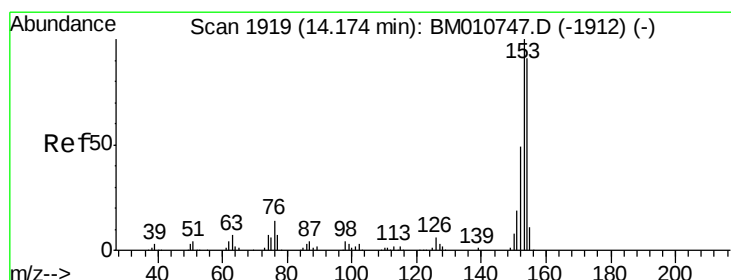
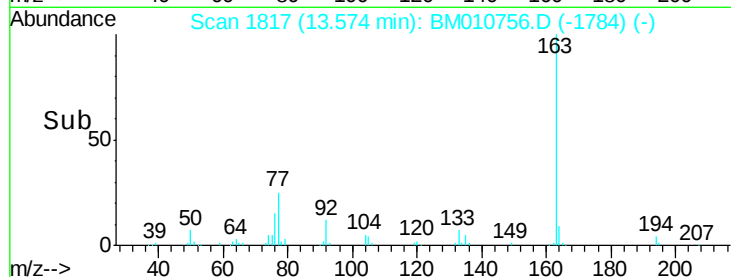
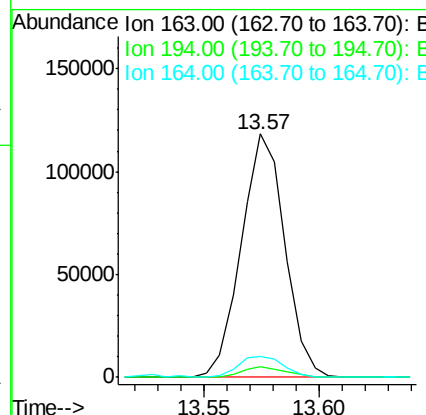
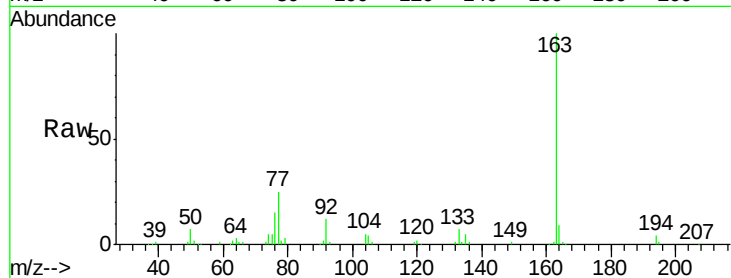
#44  
Dimethylphthalate  
Concen: 7.607 ng/ul  
RT: 13.57 min Scan# 1817  
Delta R.T. -0.01 min  
Lab File: BM010756.D  
Acq: 26 Jun 2017 21:39

Instrument :  
BNA\_M  
ClientSampleId :  
C0AD8

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 163     | 100   | 155228 |       |       |
| 194     | 4.2   | 3.5    | 5.3   |       |
| 164     | 8.8   | 8.2    | 12.4  |       |

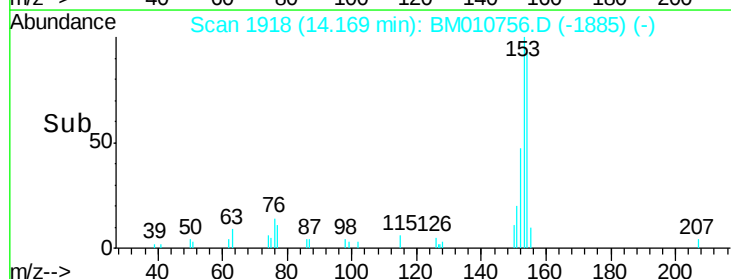
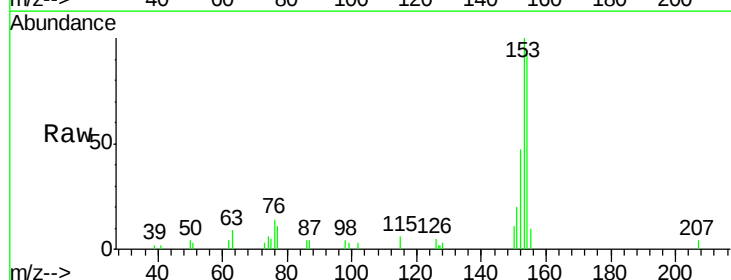
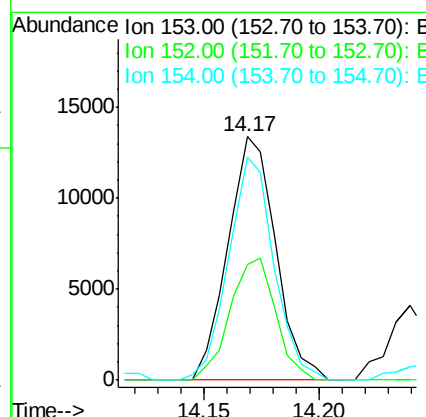
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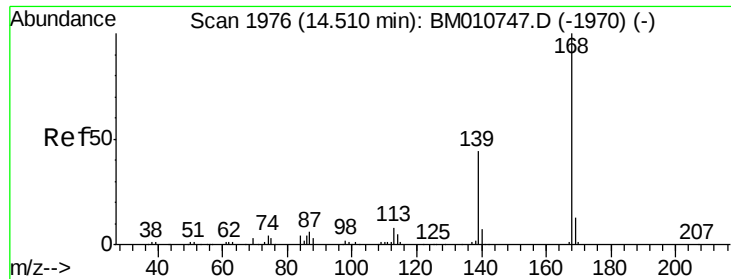
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#49  
Acenaphthene  
Concen: 1.238 ng/ul  
RT: 14.17 min Scan# 1918  
Delta R.T. -0.01 min  
Lab File: BM010756.D  
Acq: 26 Jun 2017 21:39

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 153     | 100   | 19266 |       |       |
| 152     | 47.3  | 37.6  | 56.4  |       |
| 154     | 91.8  | 70.4  | 105.6 |       |





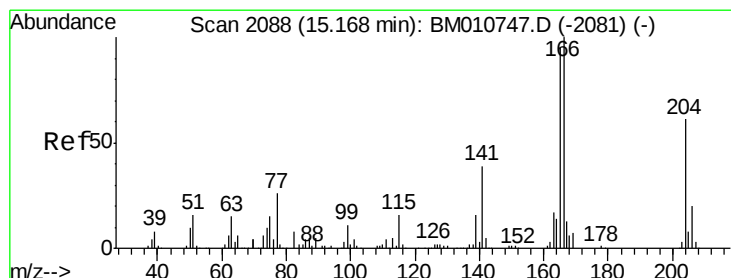
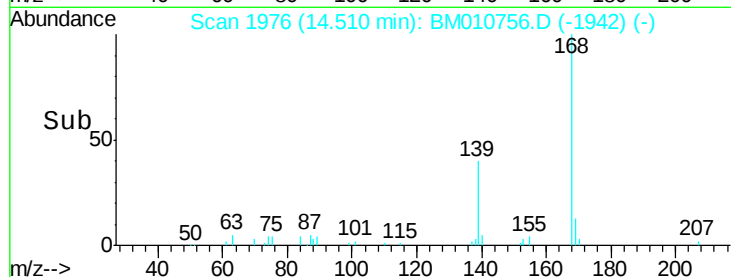
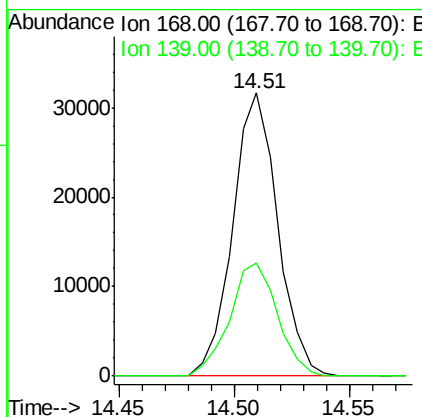
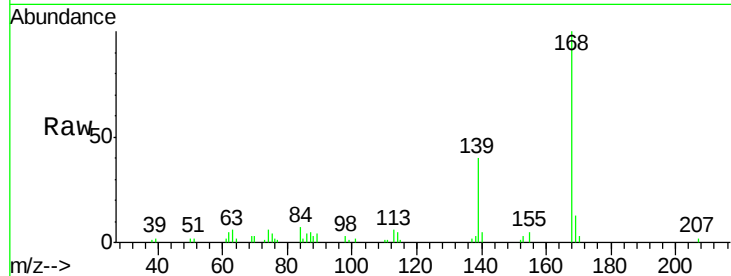
#53  
Dibenzenofuran  
Concen: 1.823 ng/ul  
RT: 14.51 min Scan# 1976  
Delta R.T. 0.00 min  
Lab File: BM010756.D  
Acq: 26 Jun 2017 21:39

Instrument :  
BNA\_M  
ClientSampleId :  
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Tgt Ion:168 Resp: 42939  
Ion Ratio Lower Upper  
168 100  
139 40.2 30.8 46.2

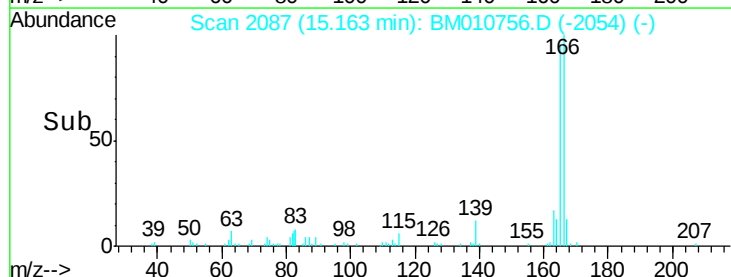
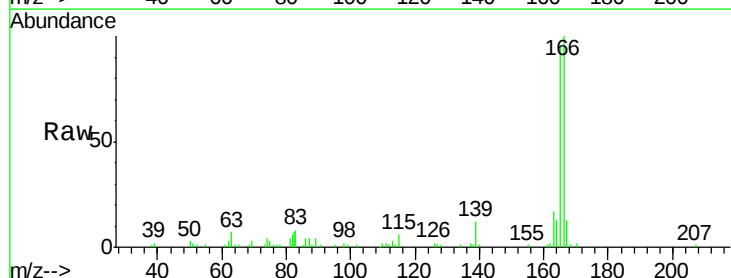
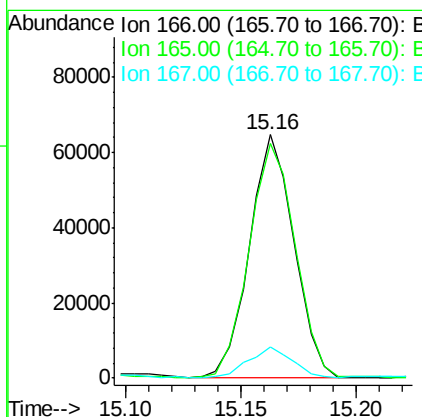
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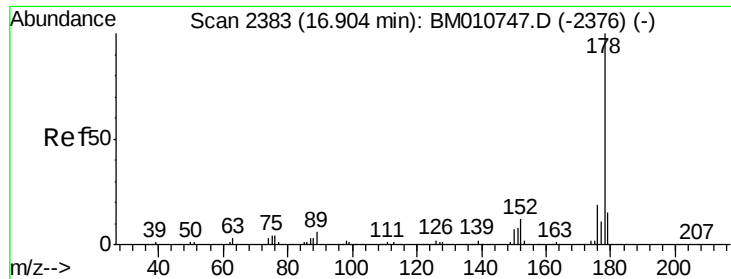
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#58  
Fluorene  
Concen: 4.415 ng/ul  
RT: 15.16 min Scan# 2087  
Delta R.T. -0.01 min  
Lab File: BM010756.D  
Acq: 26 Jun 2017 21:39

Tgt Ion:166 Resp: 87082  
Ion Ratio Lower Upper  
166 100  
165 96.4 77.9 116.9  
167 12.6 10.6 16.0





#69

Phenanthrene

Concen: 31.278 ng/ul

RT: 16.90 min Scan# 2383

Delta R.T. 0.00 min

Lab File: BM010756.D

Acq: 26 Jun 2017 21:39

Instrument :

BNA\_M

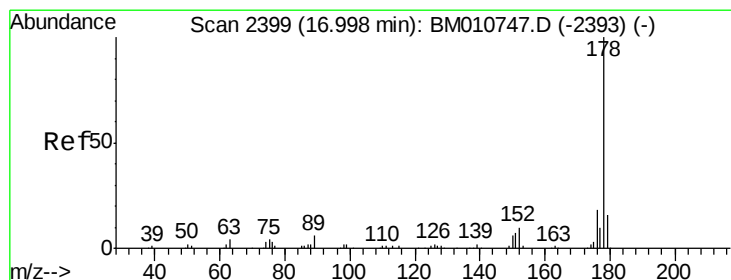
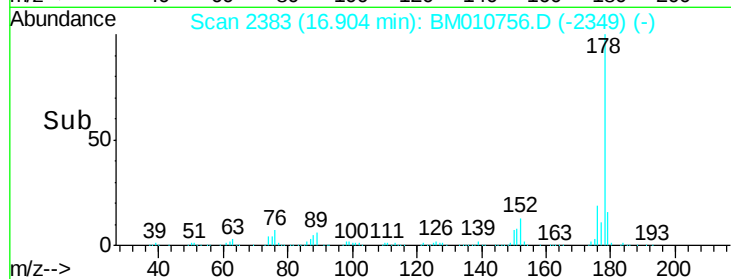
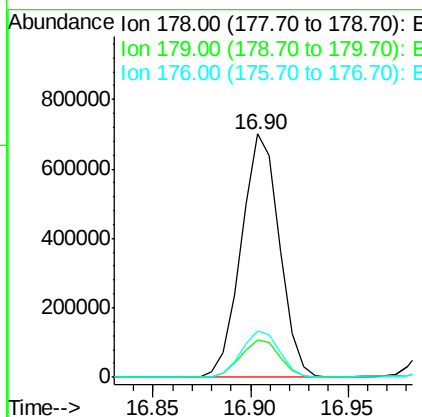
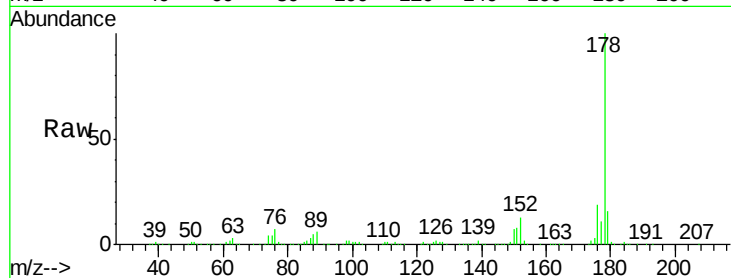
ClientSampleId :

C0AD8

|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 178  | Resp: | 948108 |
| Ion Ratio |      | Lower | Upper  |
| 178       | 100  |       |        |
| 179       | 15.6 | 12.6  | 19.0   |
| 176       | 19.2 | 14.9  | 22.3   |

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#71

Anthracene

Concen: 4.710 ng/ul

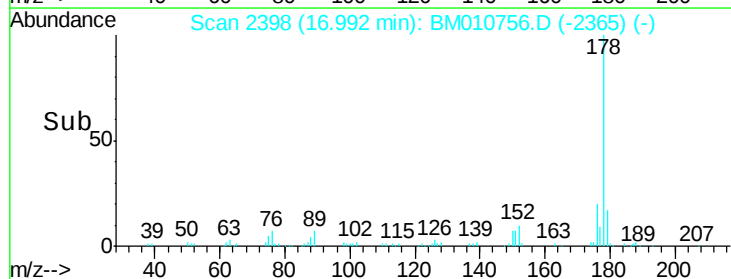
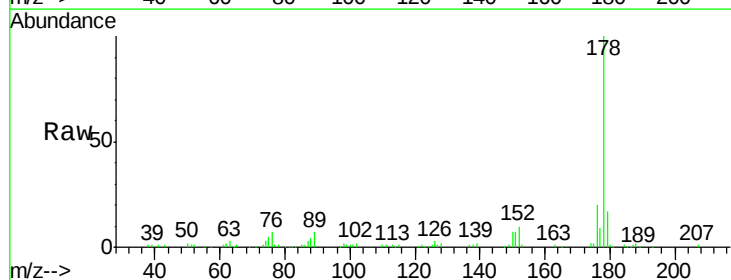
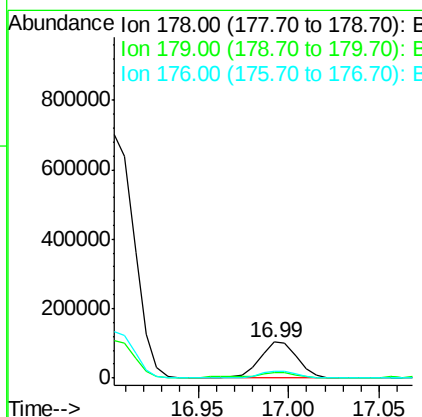
RT: 16.99 min Scan# 2398

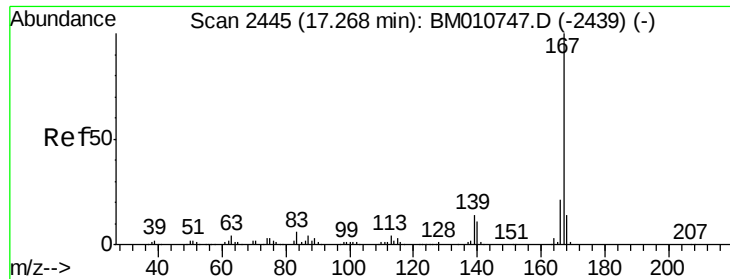
Delta R.T. -0.01 min

Lab File: BM010756.D

Acq: 26 Jun 2017 21:39

|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 178  | Resp: | 147098 |
| Ion Ratio |      | Lower | Upper  |
| 178       | 100  |       |        |
| 179       | 16.6 | 11.7  | 17.5   |
| 176       | 19.6 | 14.6  | 21.8   |





#72

Carbazole

Concen: 3.738 ng/ul

RT: 17.27 min Scan# 2445

Delta R.T. 0.00 min

Lab File: BM010756.D

Acq: 26 Jun 2017 21:39

Instrument :

BNA\_M

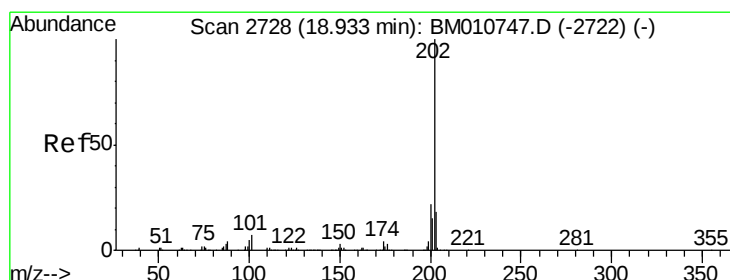
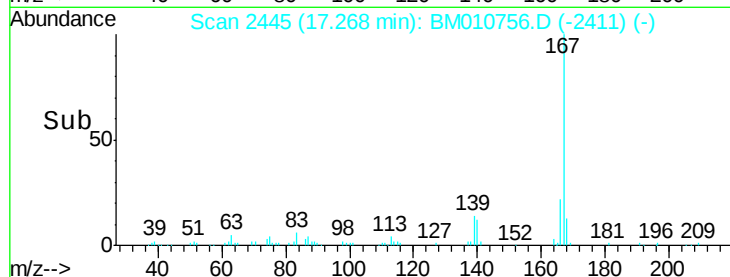
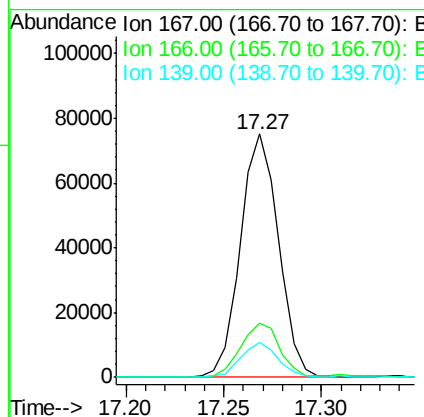
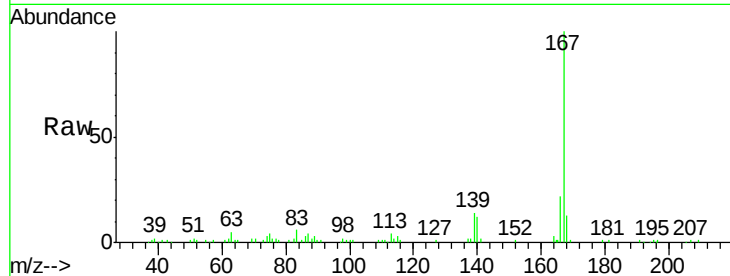
ClientSampleId :

C0AD8

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 167   | Resp: | 101830 |
| Ion Ratio | Lower | Upper |        |
| 167       | 100   |       |        |
| 166       | 22.3  | 17.1  | 25.7   |
| 139       | 14.4  | 10.0  | 15.0   |

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#74

Fluoranthene

Concen: 25.056 ng/ul

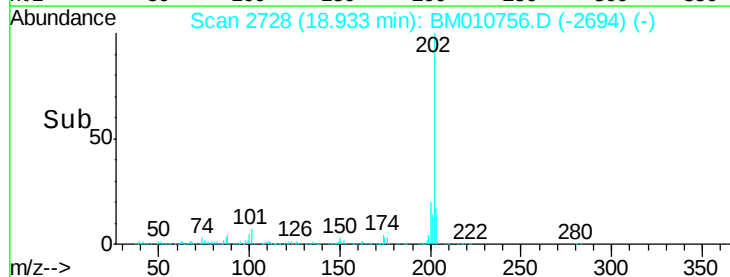
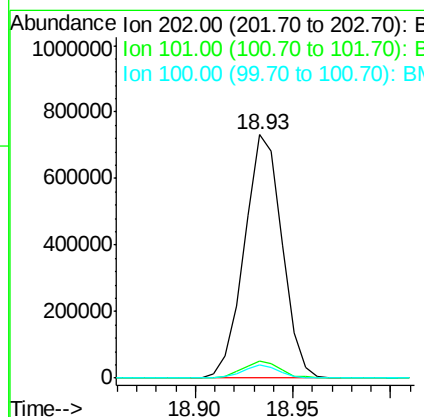
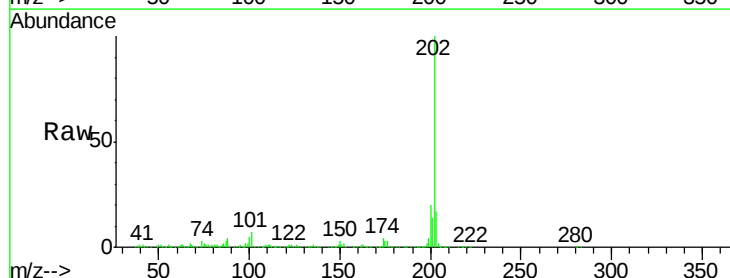
RT: 18.93 min Scan# 2728

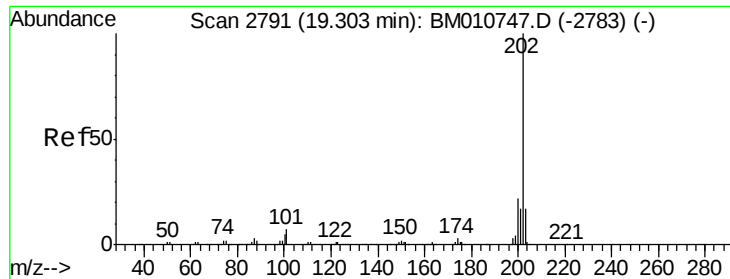
Delta R.T. 0.00 min

Lab File: BM010756.D

Acq: 26 Jun 2017 21:39

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 978793 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 6.9   | 4.6   | 7.0    |
| 100       | 5.3   | 3.4   | 5.2#   |





#77

Pyrene

Concen: 17.763 ng/ul

RT: 19.30 min Scan# 2791

Delta R.T. 0.00 min

Lab File: BM010756.D

Acq: 26 Jun 2017 21:39

Instrument :

BNA\_M

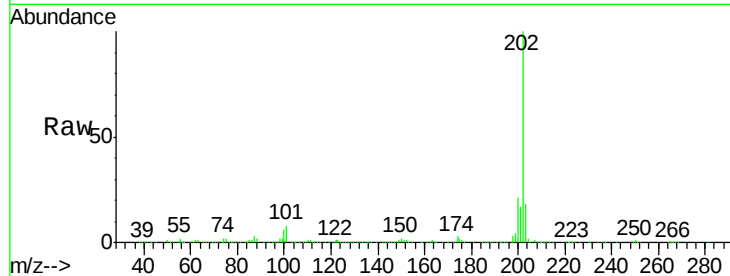
ClientSampleId :

C0AD8

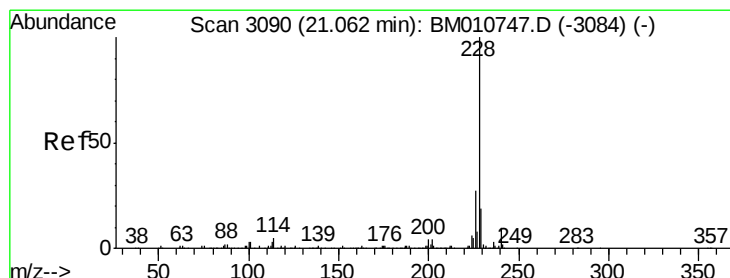
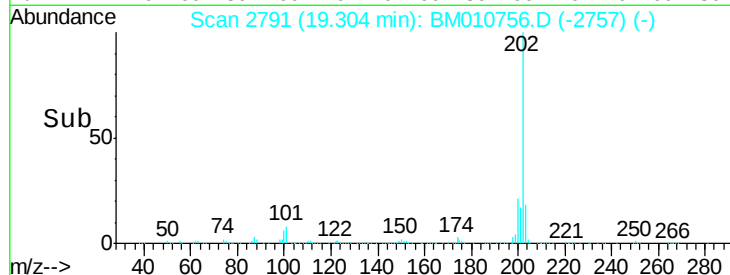
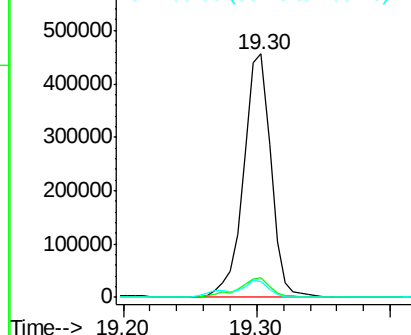
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 645049 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 7.8   | 5.1   | 7.7#   |
| 100       | 6.4   | 4.9   | 7.3    |

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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



#80

Benzo(a)anthracene

Concen: 6.116 ng/ul

RT: 21.06 min Scan# 3090

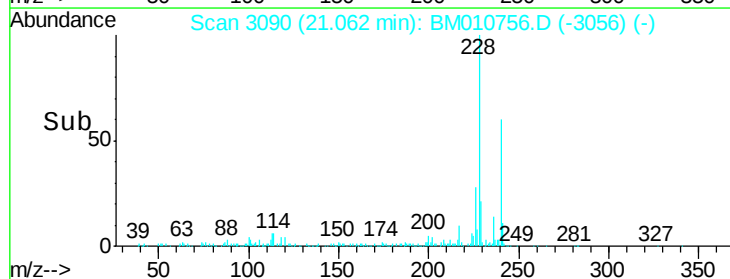
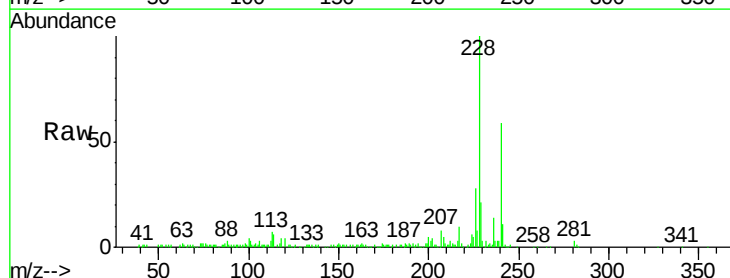
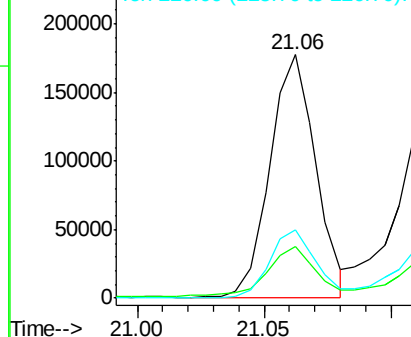
Delta R.T. 0.00 min

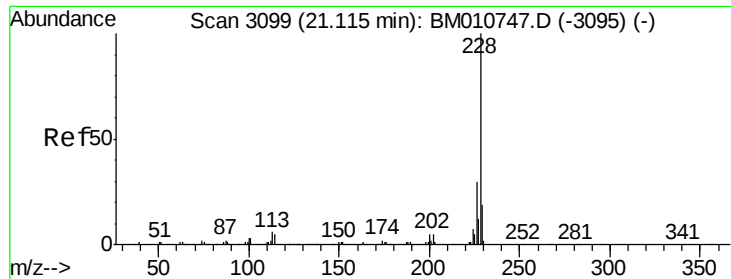
Lab File: BM010756.D

Acq: 26 Jun 2017 21:39

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 223919 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 229       | 21.4  | 15.4  | 23.0   |
| 226       | 28.2  | 21.4  | 32.0   |

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





#82

Chrysene

Concen: 5.490 ng/ul

RT: 21.12 min Scan# 3099

Delta R.T. 0.00 min

Lab File: BM010756.D

Acq: 26 Jun 2017 21:39

Instrument :

BNA\_M

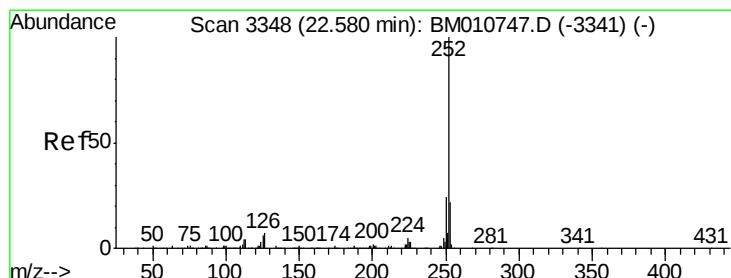
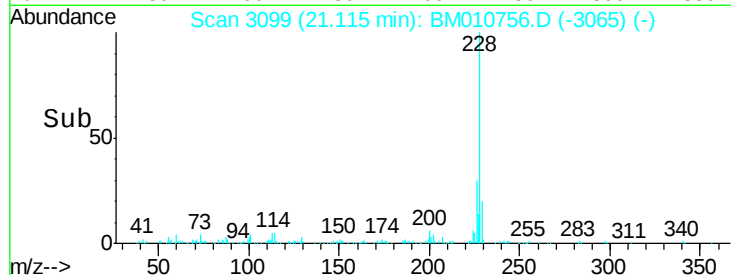
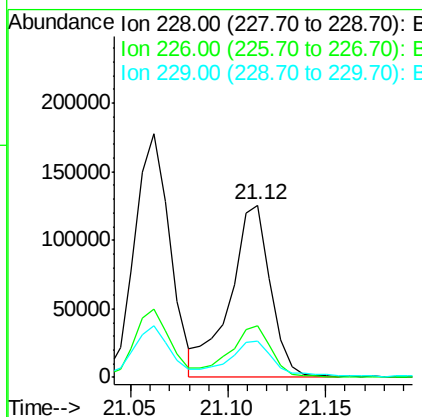
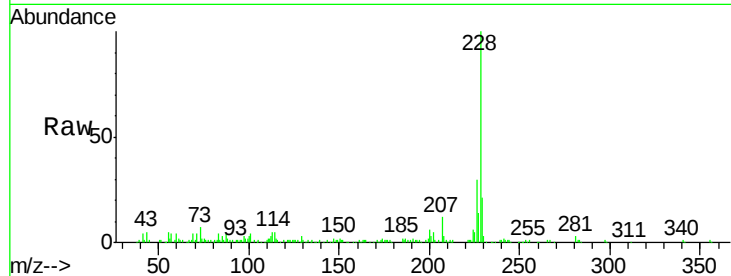
ClientSampleId :

C0AD8

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 179209 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 30.0  | 23.4  | 35.2   |
| 229       | 21.3  | 15.5  | 23.3   |

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#85

Benzo(b)fluoranthene

Concen: 4.157 ng/ul

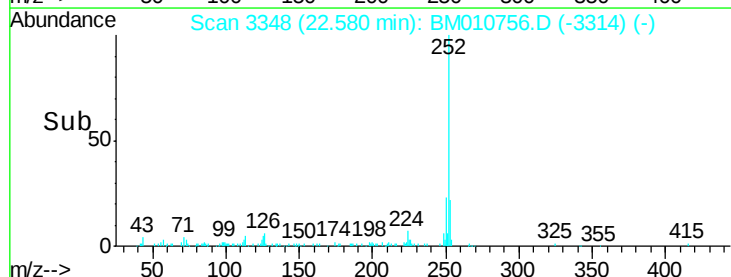
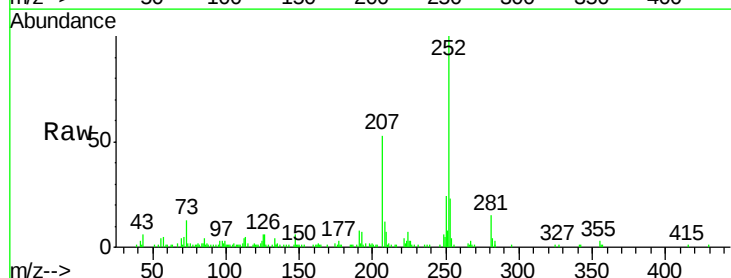
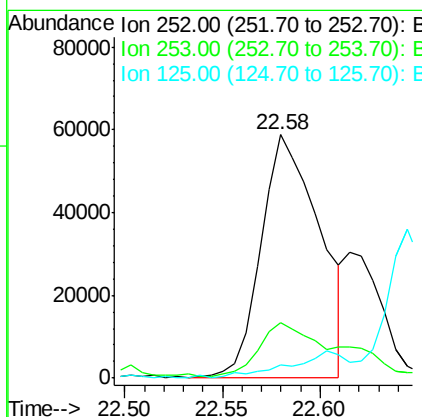
RT: 22.58 min Scan# 3348

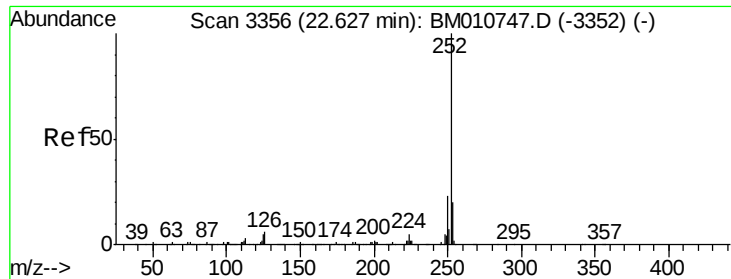
Delta R.T. 0.00 min

Lab File: BM010756.D

Acq: 26 Jun 2017 21:39

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 122553 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 22.9  | 17.9  | 26.9   |
| 125       | 5.6   | 3.6   | 5.4#   |





#86

Benzo(k)fluoranthene

Concen: 1.435 ng/ul m

RT: 22.62 min Scan# 3354

Delta R.T. -0.01 min

Lab File: BM010756.D

Acq: 26 Jun 2017 21:39

Instrument :

BNA\_M

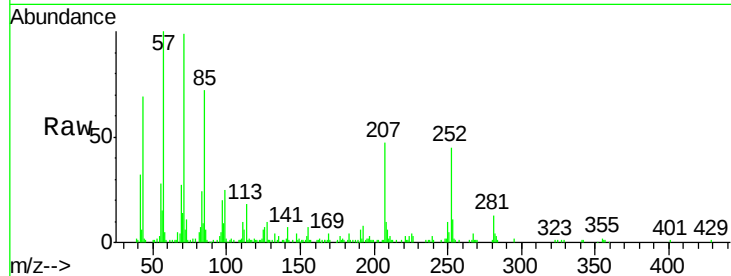
ClientSampleId :

C0AD8

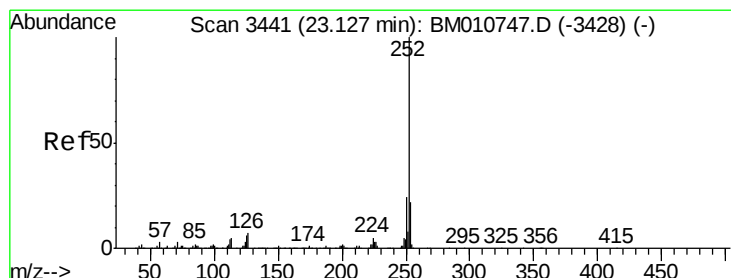
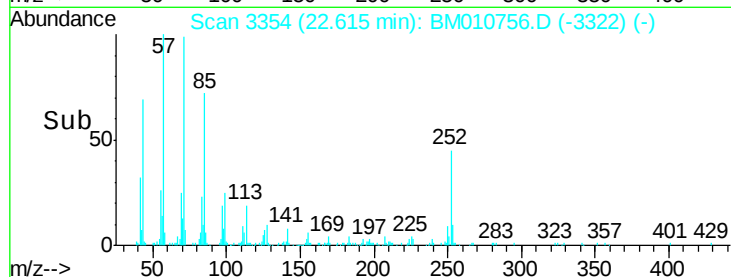
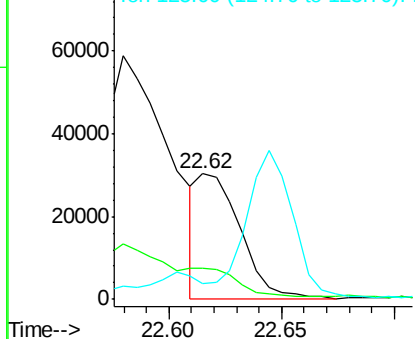
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 40106 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 24.7  | 17.1  | 25.7  |
| 125       | 12.9  | 3.4   | 5.2#  |

Manual Integrations  
APPROVED

mohammad  
6/28/2017 7:54:02 AM



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



#88

Benzo(a)pyrene

Concen: 2.386 ng/ul

RT: 23.12 min Scan# 3440

Delta R.T. -0.01 min

Lab File: BM010756.D

Acq: 26 Jun 2017 21:39

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 64753 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 22.7  | 18.2  | 27.2  |
| 125       | 6.3   | 4.0   | 6.0#  |

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

