

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA M\DATA\BM120817\  
 Data File : BM013290.D  
 Acq On : 09 Dec 2017 04:09  
 Operator : SJ/JU  
 Sample : I6759-04  
 Misc :  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 F9A03

Manual Integrations  
 APPROVED

Sohil  
 12/11/2017 6:16:20 PM

Quant Time: Dec 09 05:03:15 2017  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM113017.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Dec 08 23:45:50 2017  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response  | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|-----------|---------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.69  | 152  | 184390    | 20.00   | ng/ul  | 0.00     |
| 18) Naphthalene-d8             | 10.47 | 136  | 809767    | 20.00   | ng/ul  | 0.00     |
| 35) Acenaphthene-d10           | 14.34 | 164  | 524266    | 20.00   | ng/ul  | 0.00     |
| 61) Phenanthrene-d10           | 17.09 | 188  | 1197380   | 20.00   | ng/ul  | 0.00     |
| 75) Chrysene-d12               | 21.28 | 240  | 1502754   | 20.00   | ng/ul  | 0.00     |
| 83) Perylene-d12               | 23.50 | 264  | 1503472   | 20.00   | ng/ul  | 0.00     |
| System Monitoring Compounds    |       |      |           |         |        |          |
| 3) 1,4-Dioxane-d8              | 3.23  | 96   | 17623     | 4.73    | ng/uL  | 0.00     |
| 5) Phenol-d5                   | 6.87  | 99   | 449742    | 28.19   | ng/ul  | 0.00     |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.03  | 67   | 281298    | 30.91   | ng/ul  | 0.00     |
| 9) 2-Chlorophenol-d4           | 7.23  | 132  | 368271    | 29.54   | ng/ul  | 0.00     |
| 13) 4-Methylphenol-d8          | 8.40  | 113  | 406606    | 29.83   | ng/ul  | 0.00     |
| 19) Nitrobenzene-d5            | 8.85  | 128  | 212339    | 33.07   | ng/ul  | 0.00     |
| 22) 2-Nitrophenol-d4           | 9.56  | 143  | 237581    | 34.57   | ng/ul  | 0.00     |
| 26) 2,4-Dichlorophenol-d3      | 10.10 | 165  | 431939    | 30.50   | ng/ul  | 0.00     |
| 29) 4-Chloroaniline-d4         | 10.62 | 131  | 572871m   | 44.01   | ng/ul  | 0.00     |
| 43) Dimethylphthalate-d6       | 13.76 | 166  | 1459031   | 31.27   | ng/ul  | 0.00     |
| 46) Acenaphthylene-d8          | 14.03 | 160  | 1807649   | 31.40   | ng/ul  | 0.00     |
| 51) 4-Nitrophenol-d4           | 14.55 | 143  | 218290    | 26.93   | ng/ul  | 0.00     |
| 57) Fluorene-d10               | 15.33 | 176  | 1245563   | 31.04   | ng/ul  | 0.00     |
| 62) 4,6-Dinitro-2-methylphenol | 15.48 | 200  | 190334    | 25.27   | ng/ul  | 0.02     |
| 70) Anthracene-d10             | 17.20 | 188  | 2002277   | 33.39   | ng/ul  | 0.02     |
| 76) Pyrene-d10                 | 19.49 | 212  | 2483788   | 33.18   | ng/ul  | 0.00     |
| 87) Benzo(a)pyrene-d12         | 23.37 | 264  | 2547977   | 33.27   | ng/ul  | 0.01     |
| Target Compounds               |       |      |           |         |        |          |
| 6) Phenol                      | 6.90  | 94   | 62144     | 3.940   | ng/ul# | 85       |
| 40) 1,1'-Biphenyl              | 13.16 | 154  | 2281861   | 51.500  | ng/ul  | 97       |
| 44) Dimethylphthalate          | 13.80 | 163  | 254323    | 5.700   | ng/ul  | 98       |
| 47) Acenaphthylene             | 14.06 | 152  | 171132    | 3.212   | ng/ul# | 86       |
| 49) Acenaphthene               | 14.42 | 153  | 13808803  | 380.479 | ng/ul  | 89       |
| 53) Dibenzofuran               | 14.74 | 168  | 12236185  | 228.379 | ng/ul  | 99       |
| 58) Fluorene                   | 15.40 | 166  | 11795616  | 266.123 | ng/ul  | 99       |
| 69) Phenanthrene               | 17.13 | 178  | 28256968m | 415.388 | ng/ul  |          |
| 71) Anthracene                 | 17.23 | 178  | 6987385   | 100.490 | ng/ul  | 99       |
| 72) Carbazole                  | 17.49 | 167  | 2231273   | 37.307  | ng/ul  | 99       |
| 74) Fluoranthene               | 19.15 | 202  | 23250124m | 278.901 | ng/ul  |          |
| 77) Pyrene                     | 19.52 | 202  | 20562562m | 225.228 | ng/ul  |          |
| 80) Benzo(a)anthracene         | 21.26 | 228  | 6668160   | 69.936  | ng/ul  | 98       |
| 82) Chrysene                   | 21.31 | 228  | 7106693   | 80.341  | ng/ul  | 98       |
| 85) Benzo(b)fluoranthene       | 22.84 | 252  | 3272885   | 32.292  | ng/ul# | 98       |
| 86) Benzo(k)fluoranthene       | 22.87 | 252  | 851209m   | 8.925   | ng/ul  |          |
| 88) Benzo(a)pyrene             | 23.41 | 252  | 1752623   | 19.250  | ng/ul# | 97       |
| 89) Indeno(1,2,3-cd)pyrene     | 25.73 | 276  | 464578    | 5.143   | ng/ul# | 92       |
| 90) Dibenzo(a,h)anthracene     | 25.74 | 278  | 129158    | 1.679   | ng/ul# | 86       |
| 91) Benzo(g,h,i)perylene       | 26.41 | 276  | 331230    | 4.648   | ng/ul# | 92       |

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

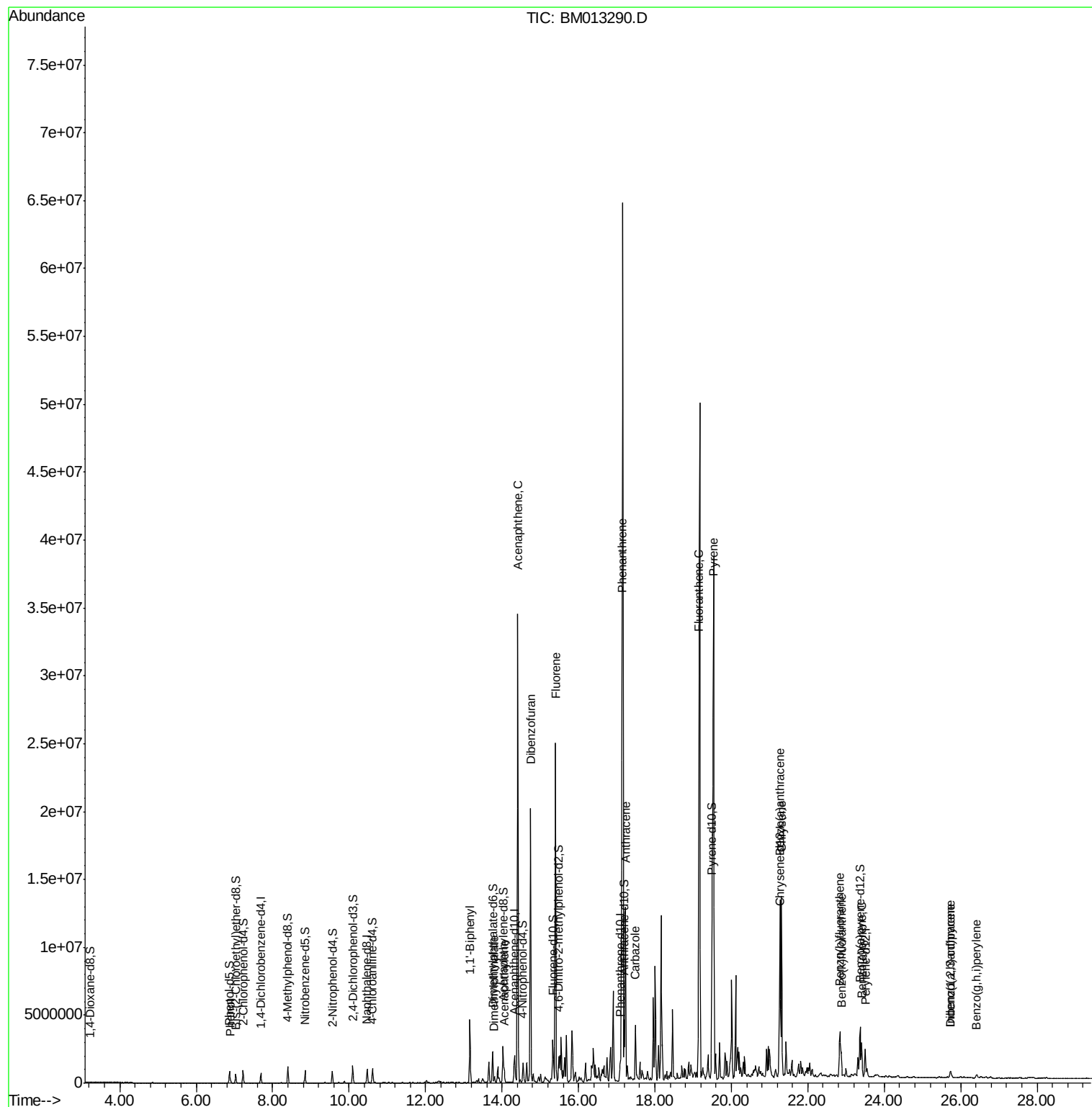
Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA M\DATA\BM120817\  
Data File : BM013290.D  
Acq On : 09 Dec 2017 04:09  
Operator : SJ/JU  
Sample : I6759-04  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

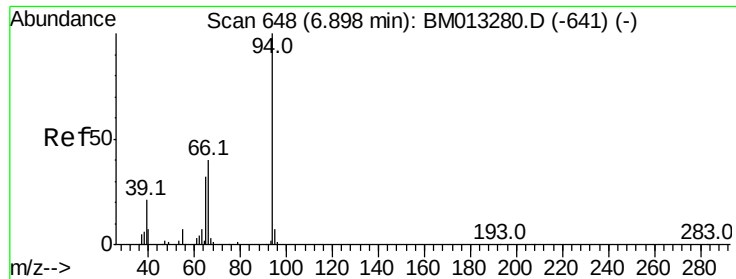
Instrument :  
BNA\_M  
ClientSampleId :  
F9A03

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12/11/2017 6:16:20 PM

Quant Time: Dec 09 05:03:15 2017  
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM113017.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Fri Dec 08 23:45:50 2017  
Response via : Initial Calibration





#6

Phenol

Concen: 3.940 ng/ul

RT: 6.90 min Scan# 648

Delta R.T. 0.00 min

Lab File: BM013290.D

Acq: 09 Dec 2017 04:09

Instrument :

BNA\_M

ClientSampled :

F9A03

Tot Ion: 94 Resp: 62144

Ion Ratio Lower Upper

94 100

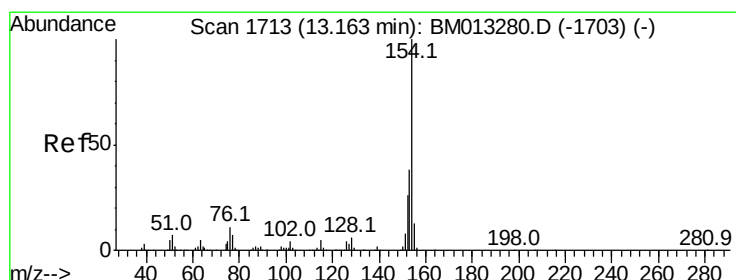
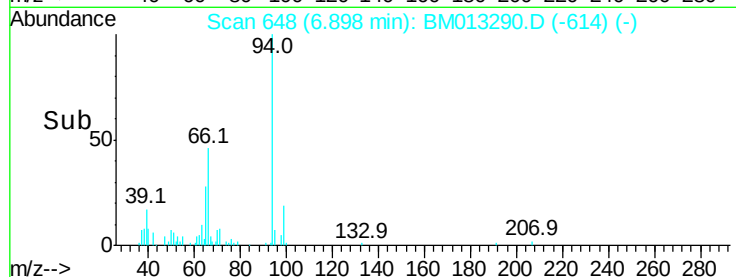
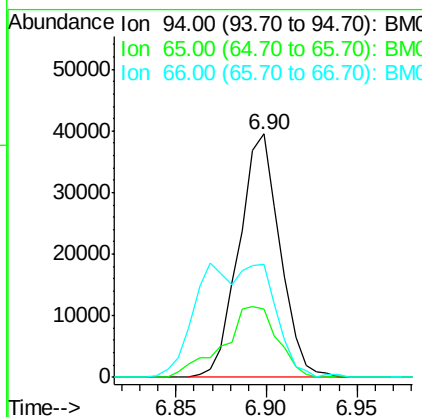
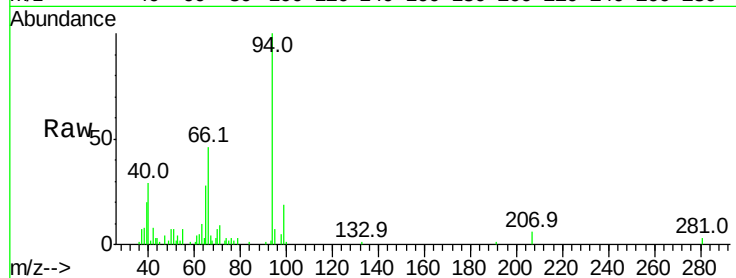
65 27.8 28.2 42.4#

66 46.2 47.2 70.8#

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#40

1,1'-Biphenyl

Concen: 51.500 ng/ul

RT: 13.16 min Scan# 1713

Delta R.T. 0.00 min

Lab File: BM013290.D

Acq: 09 Dec 2017 04:09

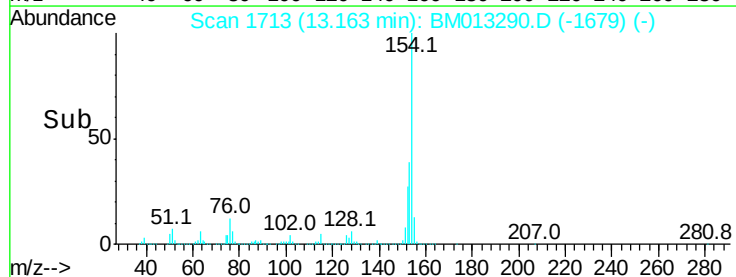
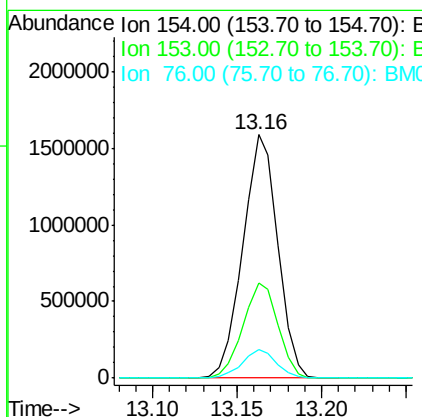
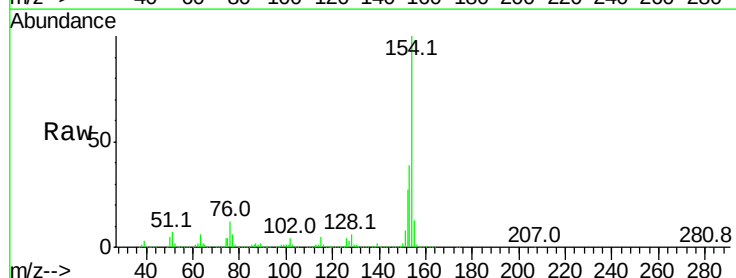
Tgt Ion: 154 Resp: 2281861

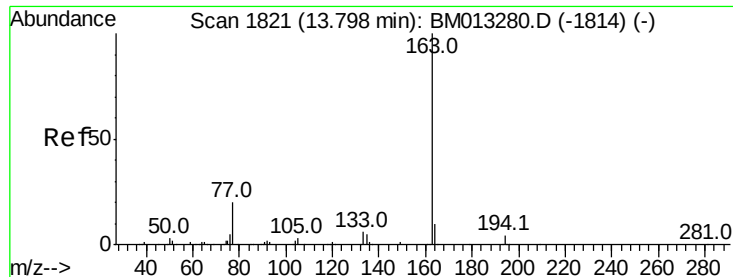
Ion Ratio Lower Upper

154 100

153 38.8 32.6 48.8

76 11.7 8.5 12.7





#44

Dimethylphthalate

Concen: 5.700 ng/ul

RT: 13.80 min Scan# 1821

Delta R.T. 0.00 min

Lab File: BM013290.D

Acq: 09 Dec 2017 04:09

Instrument :

BNA\_M

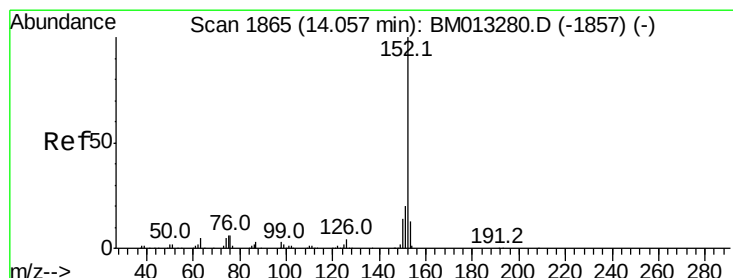
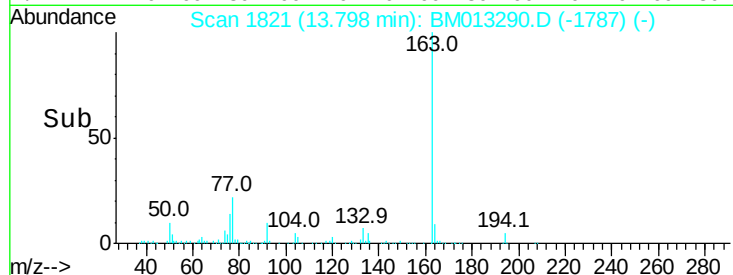
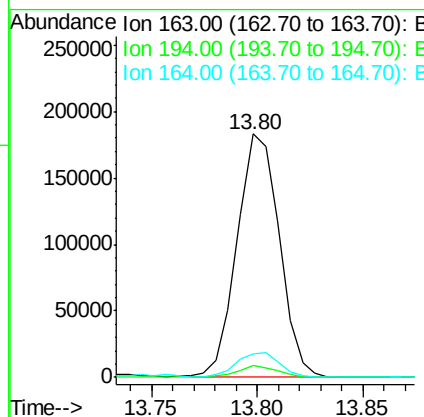
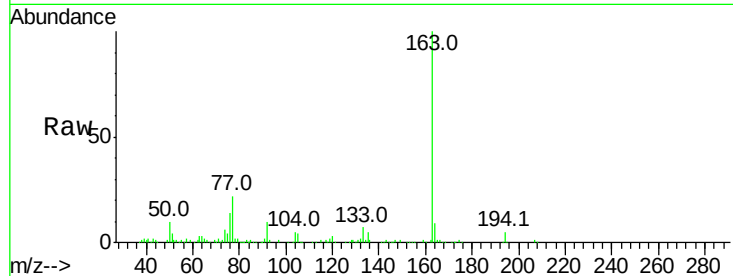
ClientSampled :

F9A03

|           |     |       |        |
|-----------|-----|-------|--------|
| Tot Ion:  | 163 | Resp: | 254323 |
| Ion Ratio |     | Lower | Upper  |
| 163       | 100 |       |        |
| 194       | 4.7 | 3.5   | 5.3    |
| 164       | 9.5 | 8.2   | 12.4   |

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#47

Acenaphthylene

Concen: 3.212 ng/ul

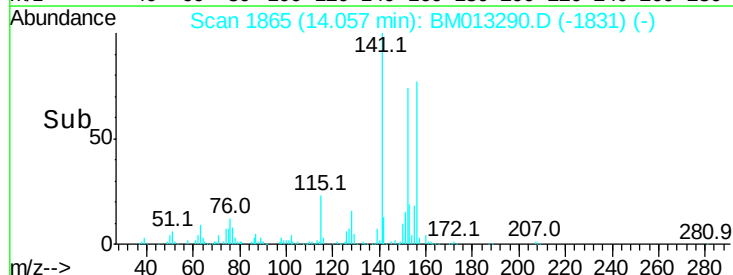
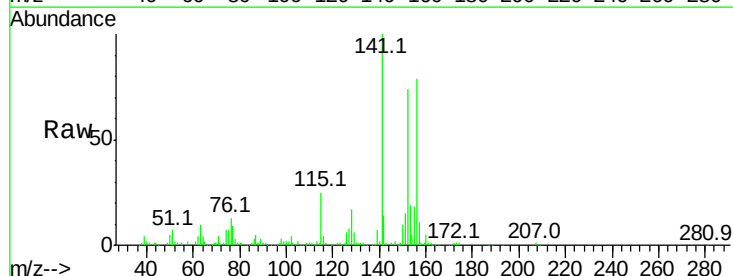
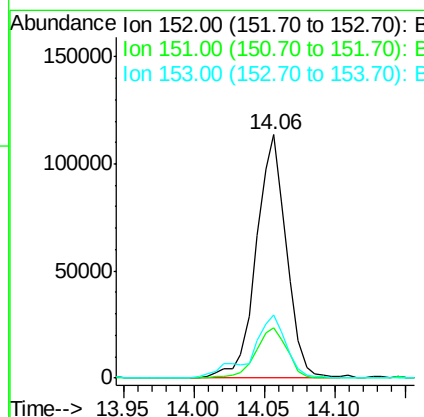
RT: 14.06 min Scan# 1865

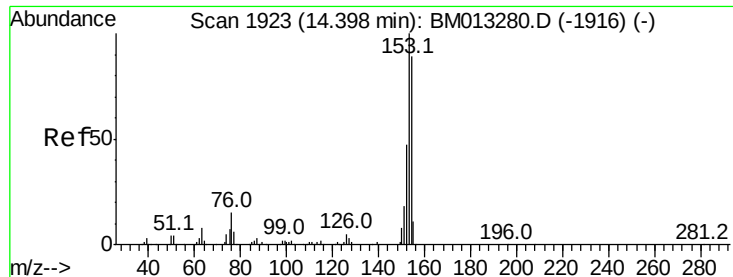
Delta R.T. 0.00 min

Lab File: BM013290.D

Acq: 09 Dec 2017 04:09

|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 152  | Resp: | 171132 |
| Ion Ratio |      | Lower | Upper  |
| 152       | 100  |       |        |
| 151       | 20.9 | 16.3  | 24.5   |
| 153       | 26.1 | 10.2  | 15.4#  |





#49

Acenaphthene

Concen: 380.479 ng/ul

RT: 14.42 min Scan# 1926

Delta R.T. 0.02 min

Lab File: BM013290.D

Acq: 09 Dec 2017 04:09

Instrument :

BNA\_M

ClientSampleId :

F9A03

Tot Ion:153 Resp:13808803

Ion Ratio Lower Upper

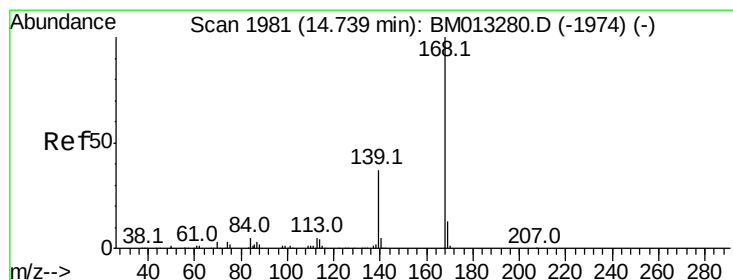
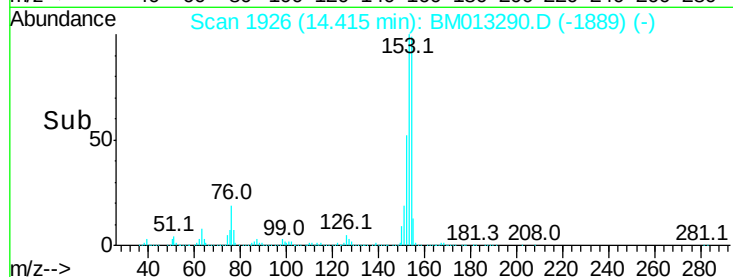
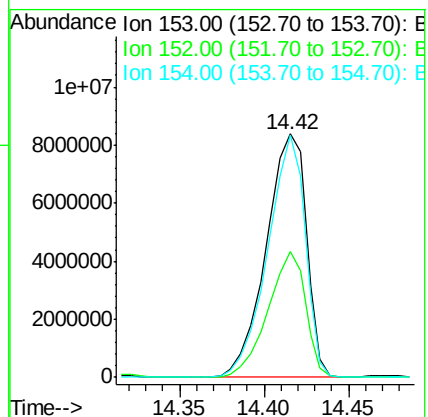
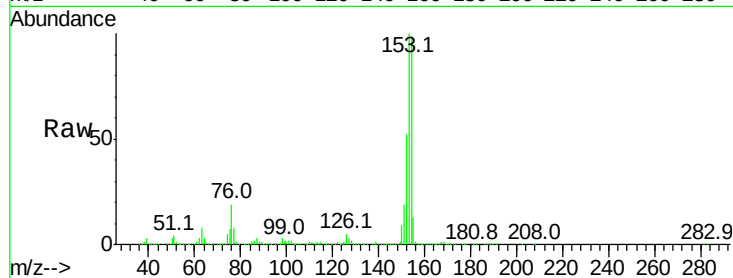
153 100

152 51.9 37.6 56.4

154 99.4 70.4 105.6

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#53

Dibenzofuran

Concen: 228.379 ng/ul

RT: 14.74 min Scan# 1982

Delta R.T. 0.01 min

Lab File: BM013290.D

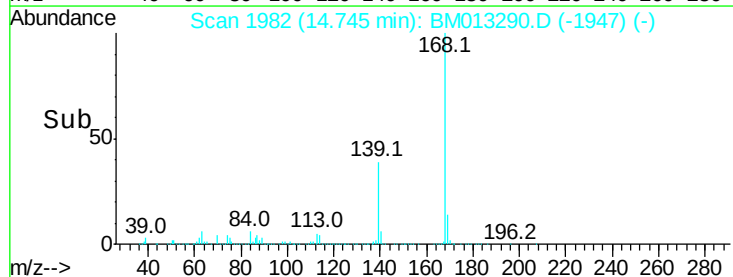
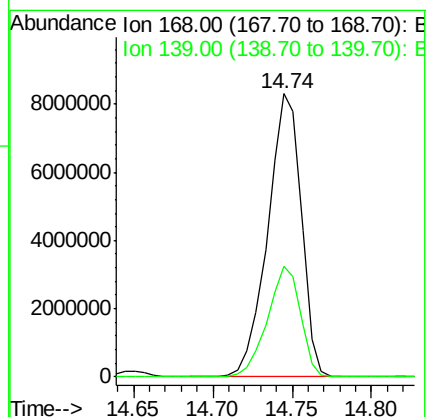
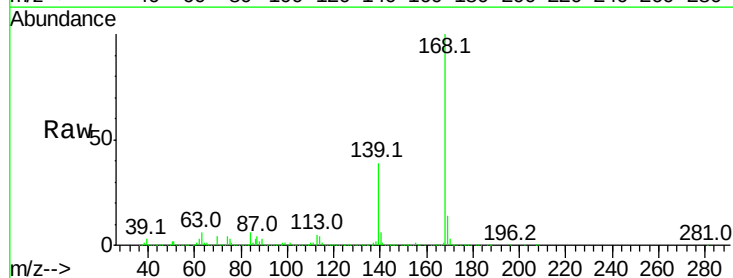
Acq: 09 Dec 2017 04:09

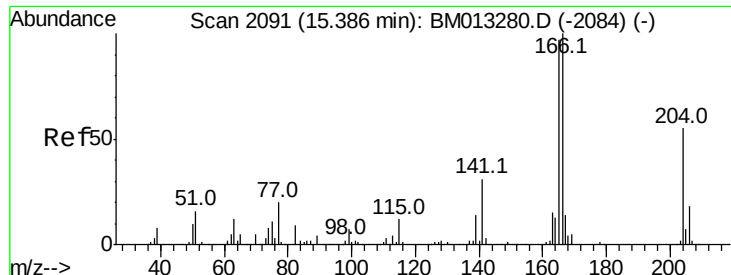
Tgt Ion:168 Resp:12236185

Ion Ratio Lower Upper

168 100

139 39.3 30.8 46.2





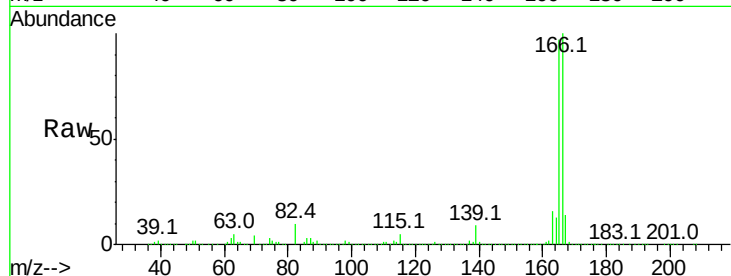
#58  
**Fluorene**  
 Concen: 266.123 ng/ul  
 RT: 15.40 min Scan# 2094  
 Delta R.T. 0.02 min  
 Lab File: BM013290.D  
 Acq: 09 Dec 2017 04:09

Instrument :  
 BNA\_M  
 ClientSampled :  
 F9A03

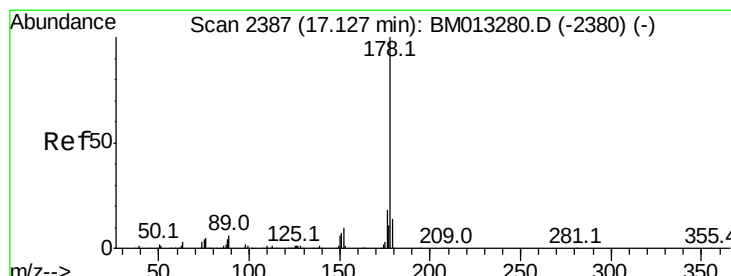
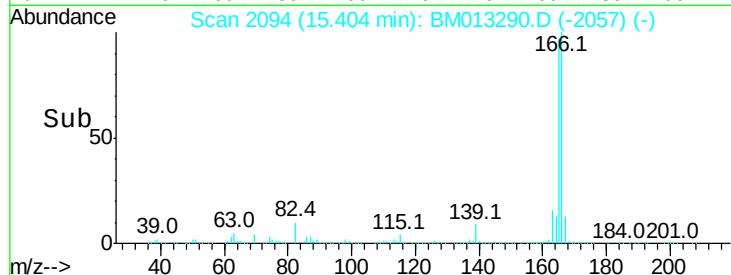
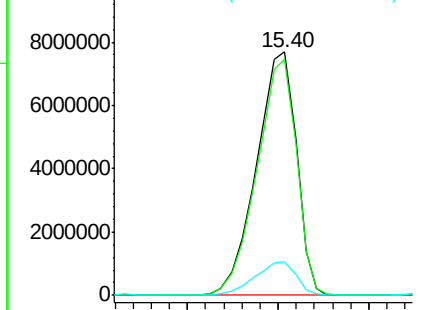
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 96.9  | 77.9  | 116.9 |
| 167     | 13.7  | 10.6  | 16.0  |

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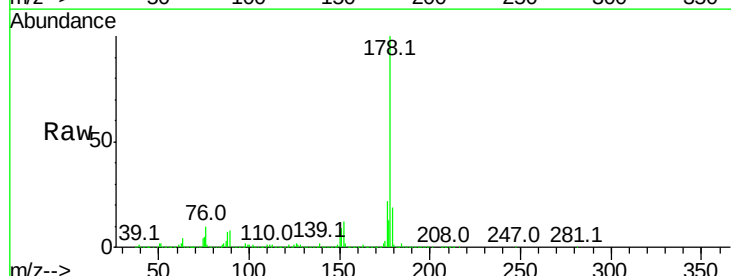


Abundance Ion 166.00 (165.70 to 166.70): E  
 Ion 165.00 (164.70 to 165.70): E  
 Ion 167.00 (166.70 to 167.70): E

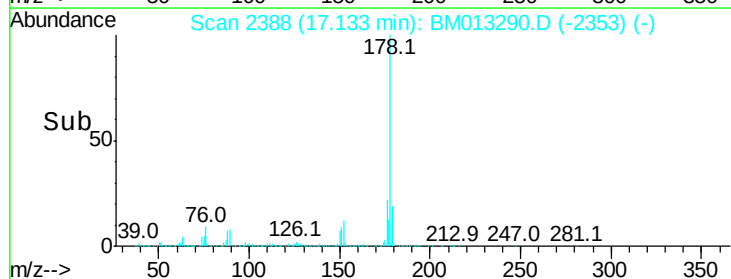
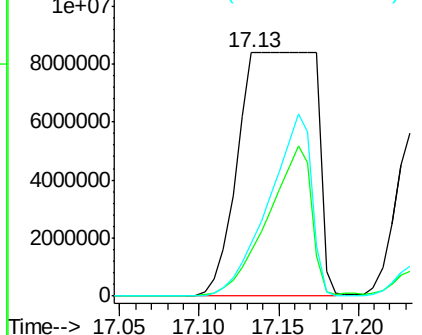


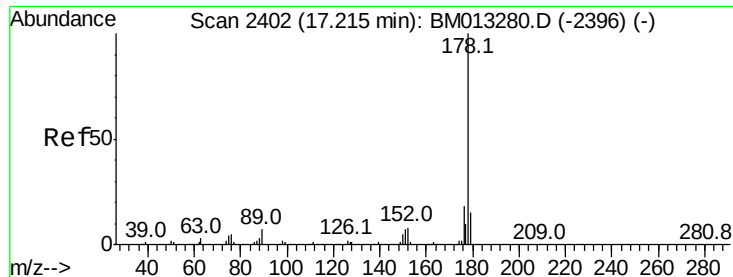
#69  
**Phenanthrene**  
 Concen: 415.388 ng/ul m  
 RT: 17.13 min Scan# 2388  
 Delta R.T. 0.01 min  
 Lab File: BM013290.D  
 Acq: 09 Dec 2017 04:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 18.8  | 12.6  | 19.0  |
| 176     | 21.7  | 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: 100.490 ng/ul

RT: 17.23 min Scan# 2405

Delta R.T. 0.02 min

Lab File: BM013290.D

Acq: 09 Dec 2017 04:09

Instrument :

BNA\_M

ClientSampleId :

F9A03

Tot Ion:178 Resp: 6987385

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 179 | 15.5  | 11.7  | 17.5  |
| 176 | 18.0  | 14.6  | 21.8  |

178 100

179 15.5 11.7 17.5

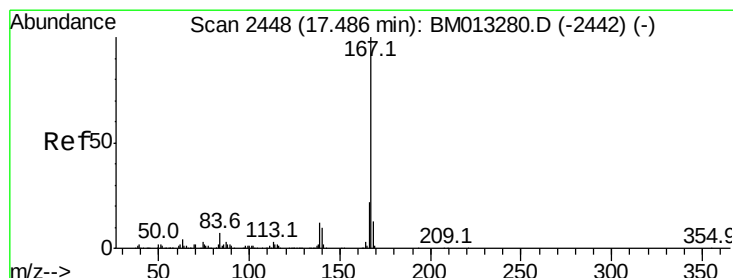
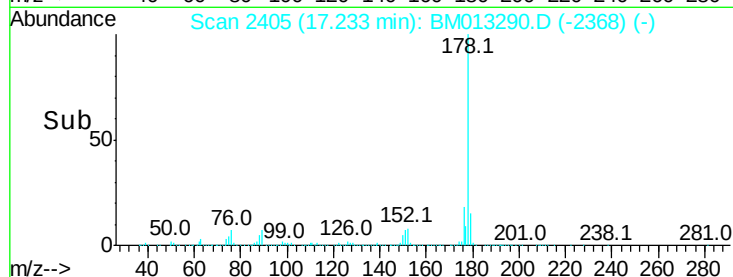
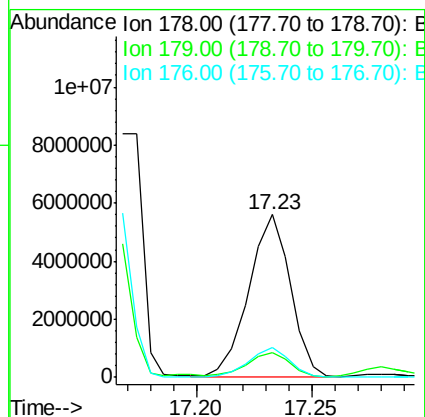
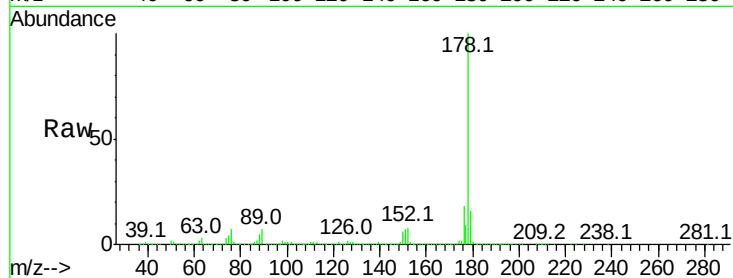
176 18.0 14.6 21.8

Manual Integrations

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#72

Carbazole

Concen: 37.307 ng/ul

RT: 17.49 min Scan# 2449

Delta R.T. 0.01 min

Lab File: BM013290.D

Acq: 09 Dec 2017 04:09

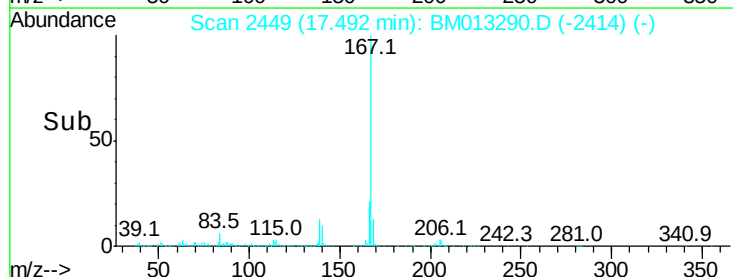
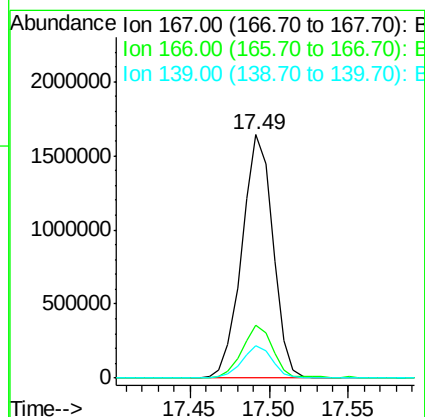
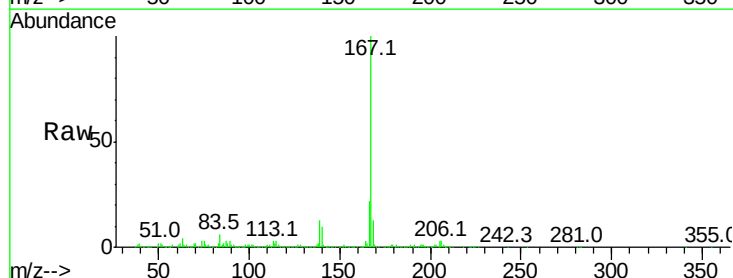
Tgt Ion:167 Resp: 2231273

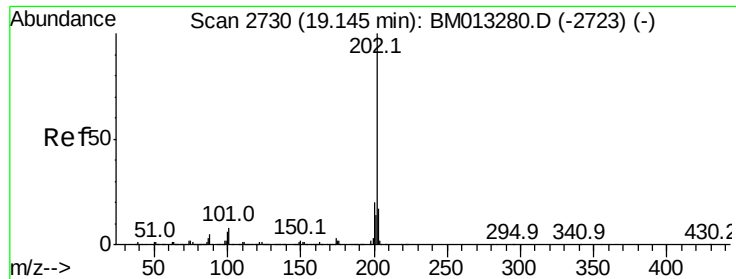
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 167 | 100   |       |       |
| 166 | 21.5  | 17.1  | 25.7  |
| 139 | 13.1  | 10.0  | 15.0  |

167 100

166 21.5 17.1 25.7

139 13.1 10.0 15.0





#74

Fluoranthene

Concen: 278.901 ng/ul m

RT: 19.15 min Scan# 2731

Delta R.T. 0.01 min

Lab File: BM013290.D

Acq: 09 Dec 2017 04:09

Instrument :

BNA\_M

ClientSampleId :

F9A03

Tot Ion:202 Resp:23250124

Ion Ratio Lower Upper

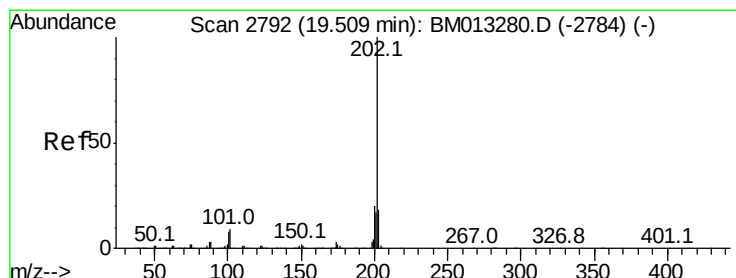
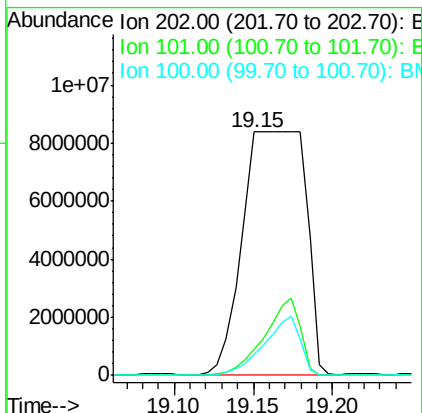
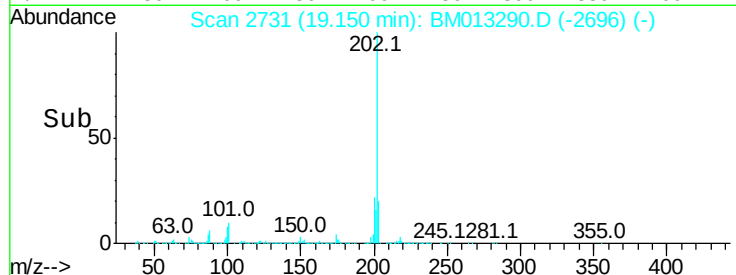
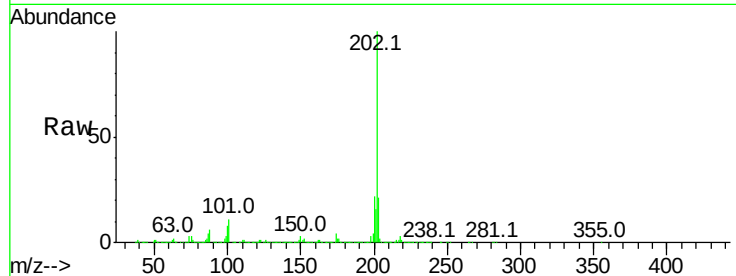
202 100

101 10.7 4.6 7.0#

100 8.4 3.4 5.2#

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#77

Pyrene

Concen: 225.228 ng/ul m

RT: 19.52 min Scan# 2794

Delta R.T. 0.01 min

Lab File: BM013290.D

Acq: 09 Dec 2017 04:09

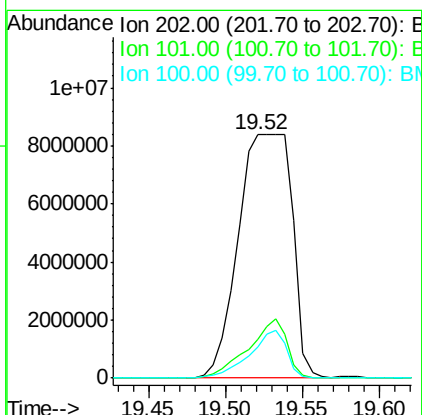
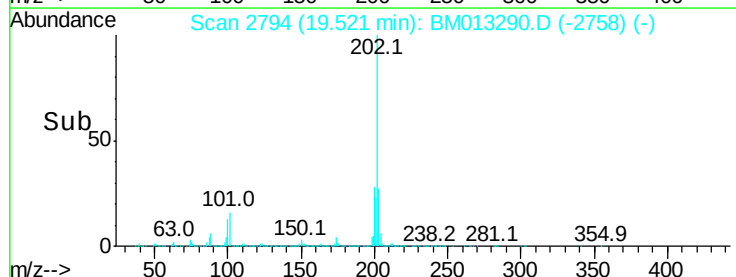
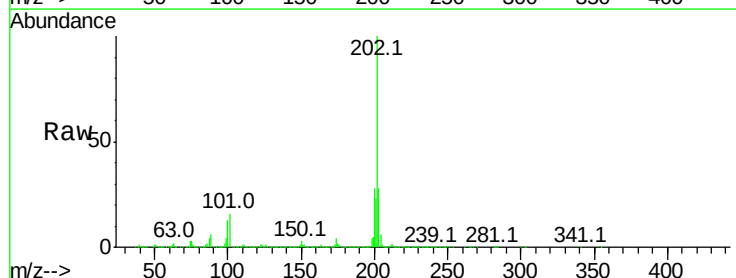
Tgt Ion:202 Resp:20562562

Ion Ratio Lower Upper

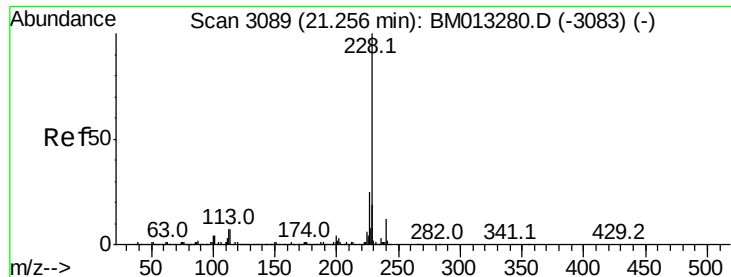
202 100

101 16.0 5.1 7.7#

100 13.0 4.9 7.3#







#80

Benzo(a)anthracene

Concen: 69.936 ng/ul

RT: 21.26 min Scan# 3090

Delta R.T. 0.01 min

Lab File: BM013290.D

Acq: 09 Dec 2017 04:09

Instrument :

BNA\_M

ClientSampled :

F9A03

Tot Ion:228 Resp: 6668160

Ion Ratio Lower Upper

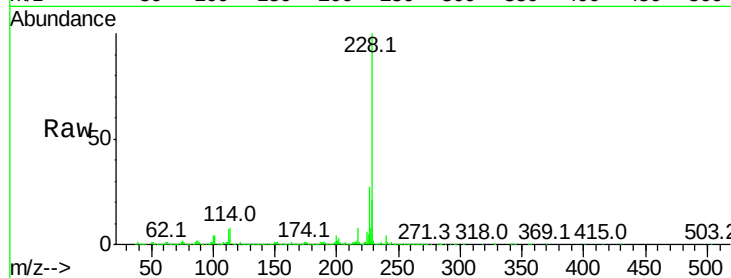
228 100

229 20.6 15.4 23.0

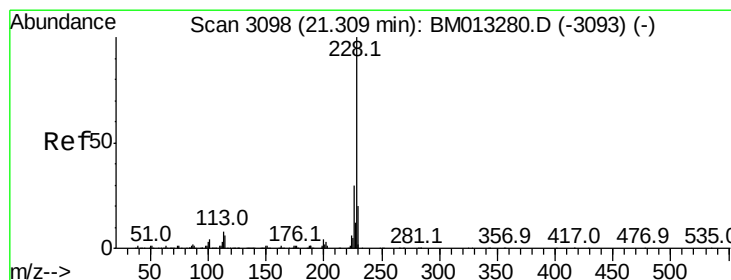
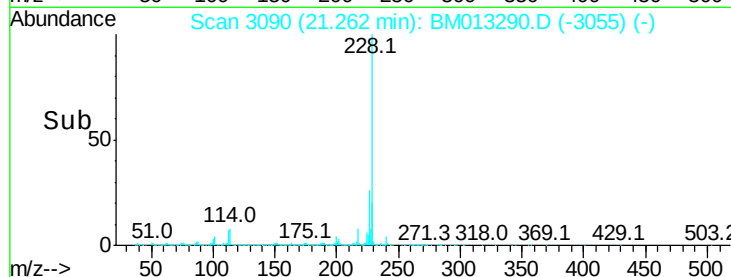
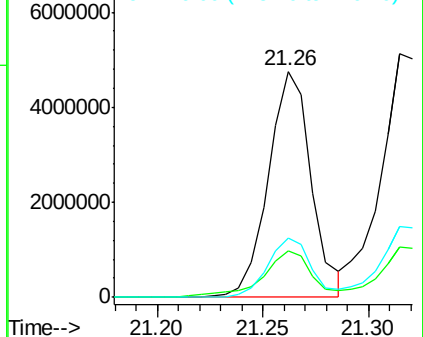
226 26.5 21.4 32.0

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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: 80.341 ng/ul

RT: 21.31 min Scan# 3099

Delta R.T. 0.01 min

Lab File: BM013290.D

Acq: 09 Dec 2017 04:09

Tgt Ion:228 Resp: 7106693

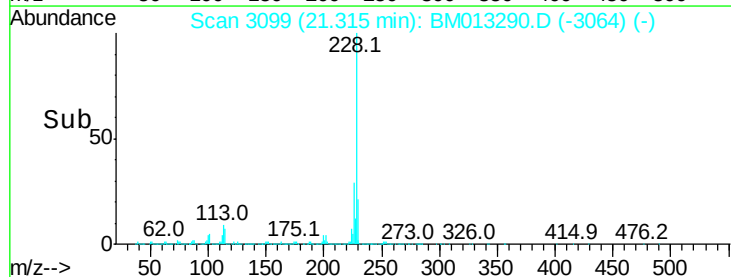
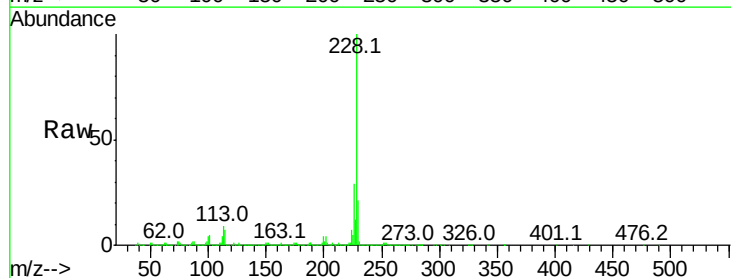
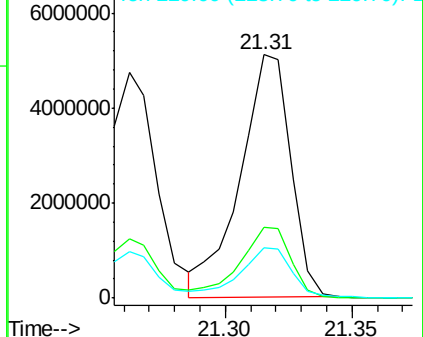
Ion Ratio Lower Upper

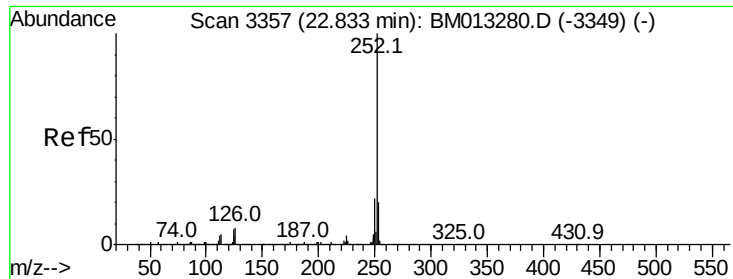
228 100

226 28.9 23.4 35.2

229 20.9 15.5 23.3

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





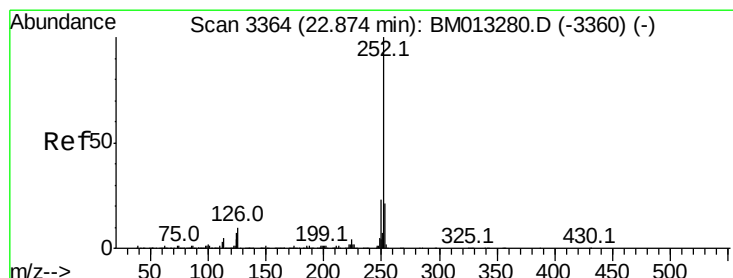
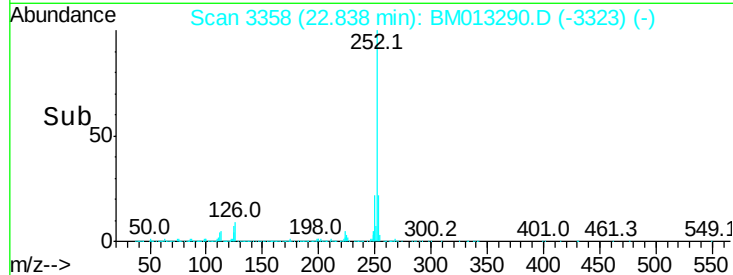
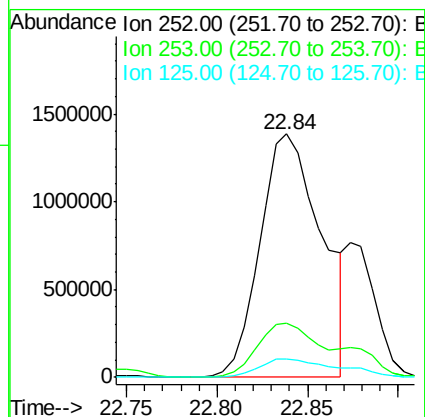
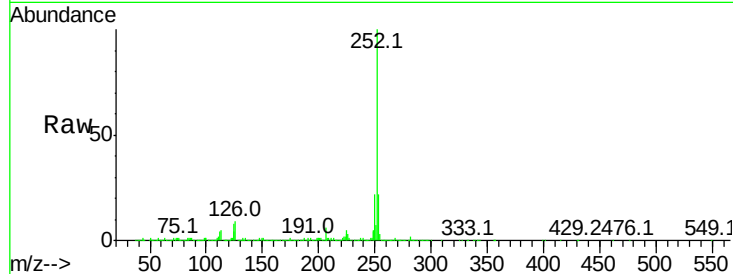
#85  
Benzo(b)fluoranthene  
Concen: 32.292 ng/ul  
RT: 22.84 min Scan# 3358  
Delta R.T. 0.01 min  
Lab File: BM013290.D  
Acq: 09 Dec 2017 04:09

Instrument :  
BNA\_M  
ClientSampled :  
F9A03

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.3  | 17.9  | 26.9  |
| 125     | 7.5   | 3.6   | 5.4   |

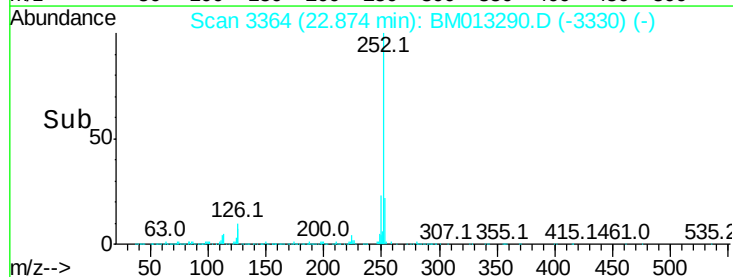
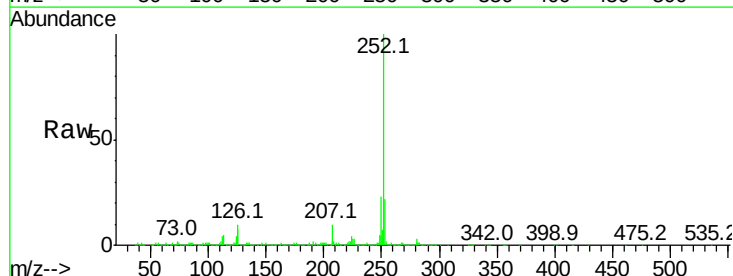
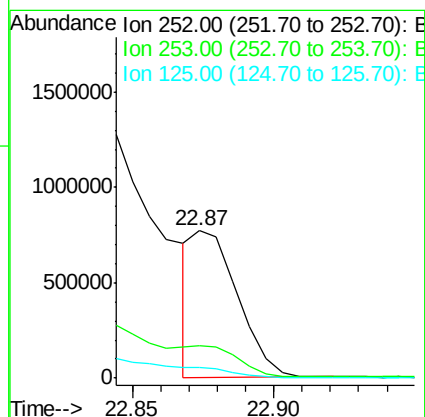
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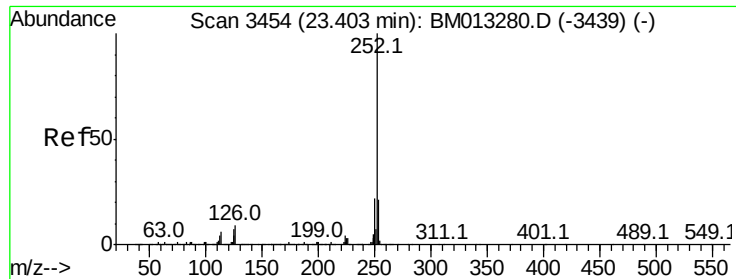
Sohil  
12/11/2017 6:16:20 PM



#86  
Benzo(k)fluoranthene  
Concen: 8.925 ng/ul m  
RT: 22.87 min Scan# 3364  
Delta R.T. 0.00 min  
Lab File: BM013290.D  
Acq: 09 Dec 2017 04:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.1  | 17.1  | 25.7  |
| 125     | 7.1   | 3.4   | 5.2   |





#88

Benzo(a)pyrene

Concen: 19.250 ng/ul

RT: 23.41 min Scan# 3455

Delta R.T. 0.01 min

Lab File: BM013290.D

Acq: 09 Dec 2017 04:09

Instrument :

BNA\_M

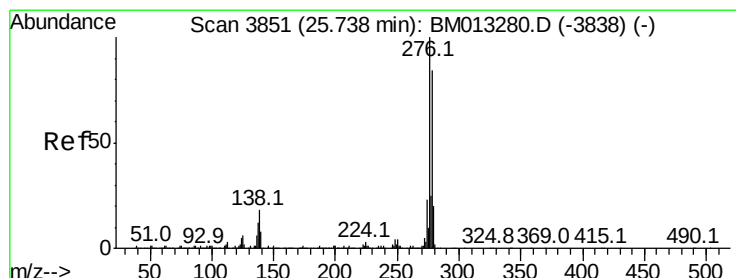
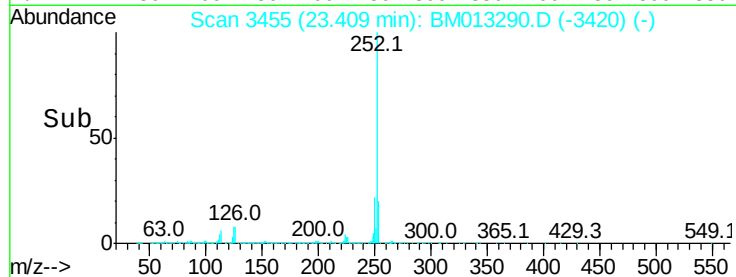
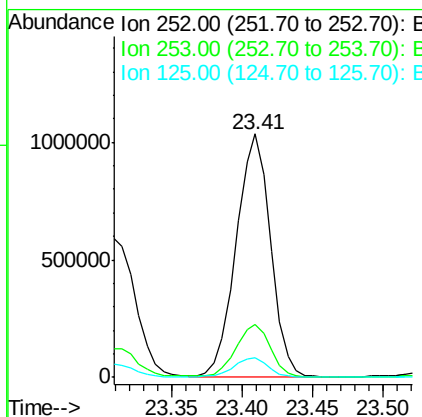
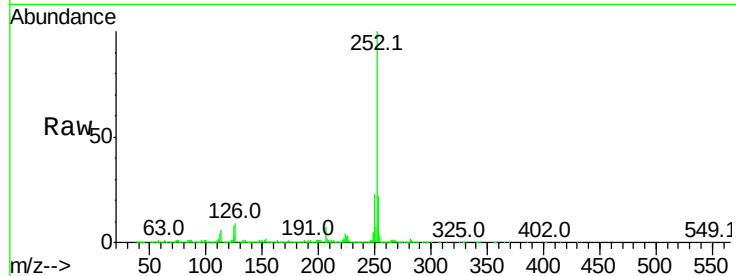
ClientSampled :

F9A03

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 21.8  | 18.2  | 27.2  |
| 125     | 8.0   | 4.0   | 6.0   |

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#89

Indeno(1,2,3-cd)pyrene

Concen: 5.143 ng/ul

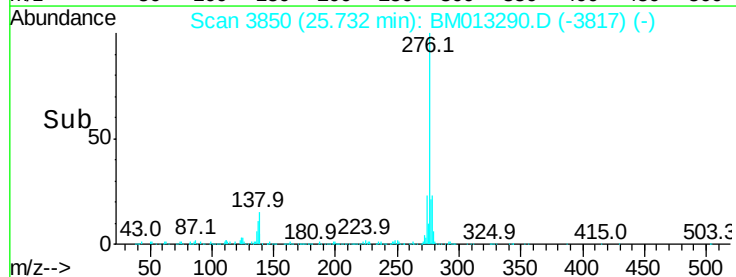
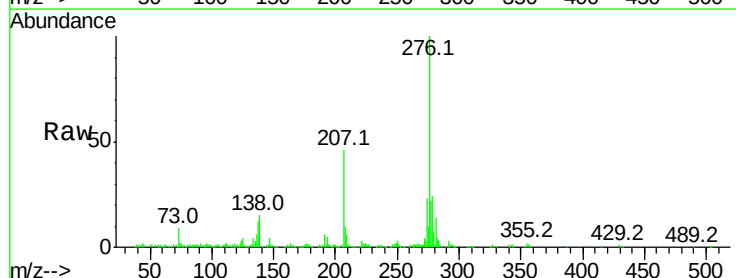
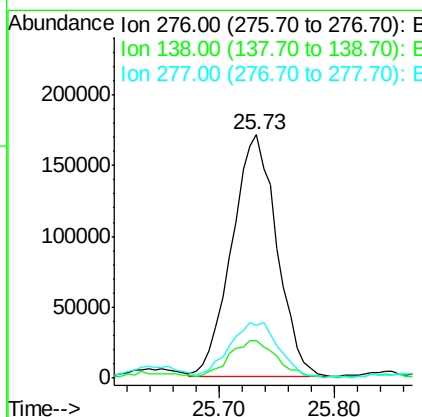
RT: 25.73 min Scan# 3850

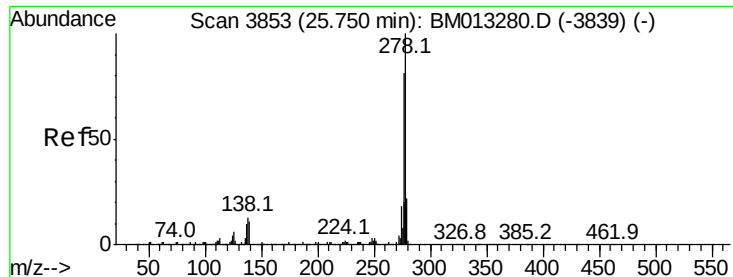
Delta R.T. -0.01 min

Lab File: BM013290.D

Acq: 09 Dec 2017 04:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 15.3  | 9.3   | 13.9  |
| 277     | 21.5  | 19.9  | 29.9  |





#90

Dibenzo(a,h)anthracene

Concen: 1.679 ng/ul

RT: 25.74 min Scan# 3851

Delta R.T. -0.01 min

Lab File: BM013290.D

Acq: 09 Dec 2017 04:09

Instrument :

BNA\_M

ClientSampleId :

F9A03

Tot Ion:278 Resp: 129158  
Ion Ratio Lower Upper

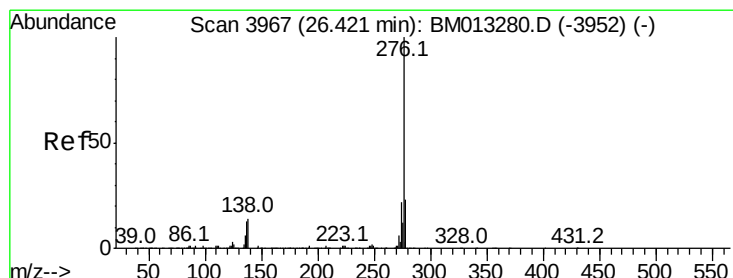
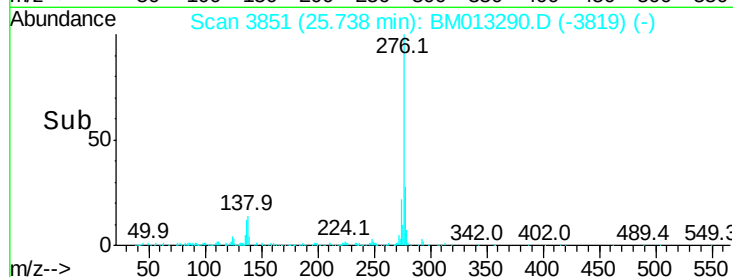
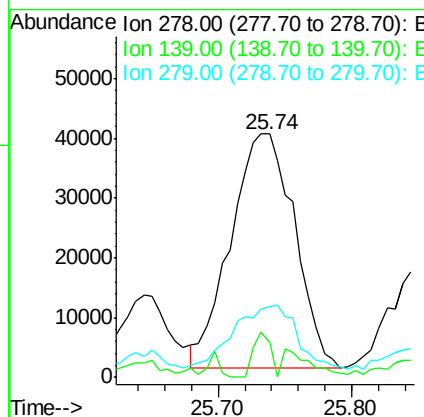
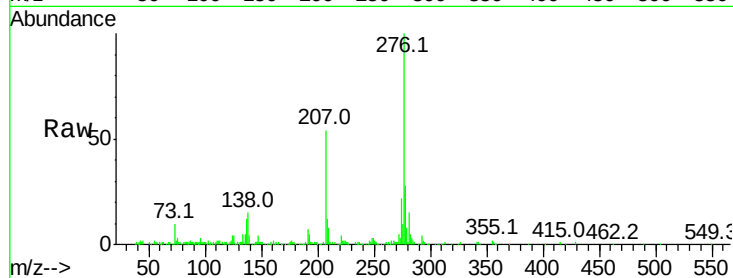
278 100

139 14.5 5.8 8.8#

279 28.9 18.6 27.8#

Manual Integrations  
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#91

Benzo(g,h,i)perylene

Concen: 4.648 ng/ul

RT: 26.41 min Scan# 3965

Delta R.T. -0.01 min

Lab File: BM013290.D

Acq: 09 Dec 2017 04:09

Tgt Ion:276 Resp: 331230  
Ion Ratio Lower Upper

276 100

138 16.7 8.5 12.7#

277 25.5 18.6 28.0

