

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM121317\  
 Data File : BM013373.D  
 Acq On : 13 Dec 2017 14:49  
 Operator : SJ/JU  
 Sample : I6776-01  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 F9A53

Manual Integrations  
 APPROVED

Sohil  
 12/15/2017 7:34:00 PM

Quant Time: Dec 13 16:31:45 2017  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM113017.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Dec 13 04:59:25 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.69  | 152  | 147777   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.46 | 136  | 634173   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.33 | 164  | 400208   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.07 | 188  | 1031884  | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.27 | 240  | 1399302  | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 23.49 | 264  | 1294871  | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |       |       |      |
|--------------------------------|-------|-----|---------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.23  | 96  | 9774    | 3.28  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.86  | 99  | 187674  | 14.68 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.02  | 67  | 111727  | 15.32 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.22  | 132 | 157161  | 15.73 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.39  | 113 | 154780  | 14.17 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.83  | 128 | 83528   | 16.61 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.55  | 143 | 86076   | 15.99 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.09 | 165 | 168435  | 15.19 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.60 | 131 | 132902  | 13.04 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 13.74 | 166 | 578796  | 16.25 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.02 | 160 | 717397  | 16.32 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.54 | 143 | 75552   | 12.21 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.32 | 176 | 531967  | 17.37 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.45 | 200 | 67762   | 10.44 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.17 | 188 | 886270  | 17.15 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.47 | 212 | 1120576 | 16.07 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 23.36 | 264 | 1126152 | 17.07 | ng/ul | 0.00 |

## Target Compounds

|                            |       |     |         |        | Qvalue |    |
|----------------------------|-------|-----|---------|--------|--------|----|
| 6) Phenol                  | 6.89  | 94  | 34889   | 2.760  | ng/ul# | 81 |
| 44) Dimethylphthalate      | 13.79 | 163 | 112026  | 3.289  | ng/ul  | 99 |
| 47) Acenaphthylene         | 14.04 | 152 | 195351  | 4.803  | ng/ul# | 97 |
| 71) Anthracene             | 17.21 | 178 | 125204  | 2.089  | ng/ul  | 97 |
| 74) Fluoranthene           | 19.14 | 202 | 243472m | 3.389  | ng/ul  |    |
| 77) Pyrene                 | 19.50 | 202 | 404439  | 4.757  | ng/ul# | 94 |
| 80) Benzo(a)anthracene     | 21.25 | 228 | 440828  | 4.965  | ng/ul  | 94 |
| 82) Chrysene               | 21.30 | 228 | 568856  | 6.906  | ng/ul  | 99 |
| 85) Benzo(b)fluoranthene   | 22.83 | 252 | 1421069 | 16.280 | ng/ul# | 97 |
| 86) Benzo(k)fluoranthene   | 22.87 | 252 | 439666m | 5.352  | ng/ul  |    |
| 88) Benzo(a)pyrene         | 23.40 | 252 | 697099  | 8.890  | ng/ul# | 97 |
| 89) Indeno(1,2,3-cd)pyrene | 25.73 | 276 | 601472  | 7.731  | ng/ul  | 97 |
| 90) Dibenzo(a,h)anthracene | 25.73 | 278 | 157337  | 2.375  | ng/ul# | 93 |
| 91) Benzo(g,h,i)perylene   | 26.41 | 276 | 484252  | 7.891  | ng/ul# | 96 |

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

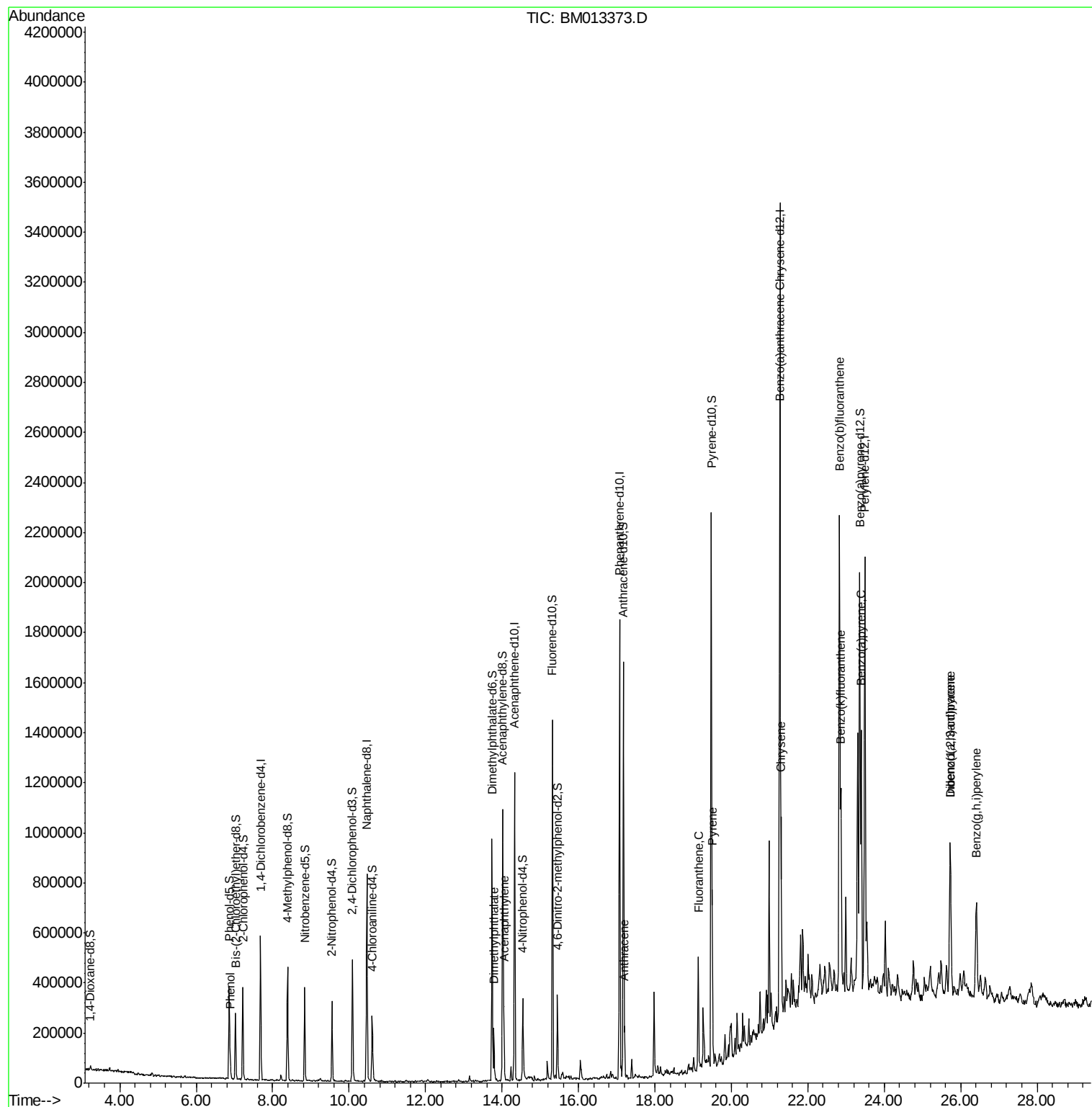
Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM121317\  
Data File : BM013373.D  
Acq On : 13 Dec 2017 14:49  
Operator : SJ/JU  
Sample : I6776-01  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

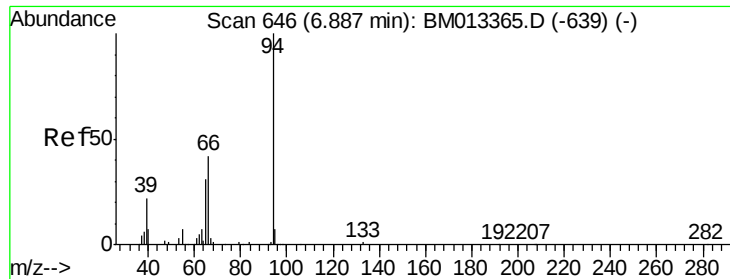
Instrument :  
BNA\_M  
ClientSampleId :  
F9A53

Quant Time: Dec 13 16:31:45 2017  
Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM113017.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Wed Dec 13 04:59:25 2017  
Response via : Initial Calibration

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#6

Phenol

Concen: 2.760 ng/ul

RT: 6.89 min Scan# 647

Delta R.T. 0.01 min

Lab File: BM013373.D

Acq: 13 Dec 2017 14:49

Instrument :

BNA\_M

ClientSampleId :

F9A53

Tgt Ion: 94 Resp: 34889

Ion Ratio Lower Upper

94 100

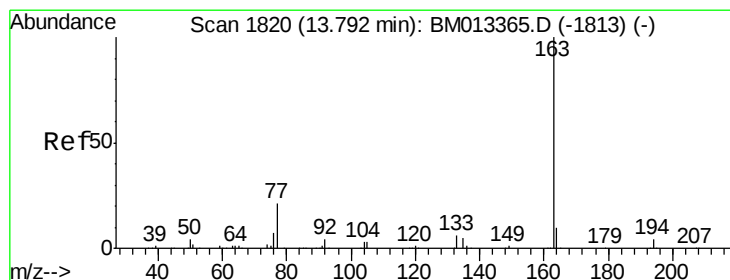
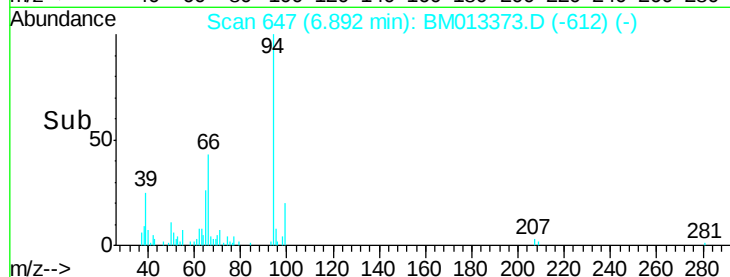
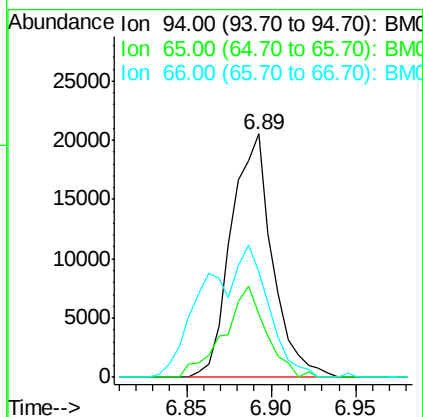
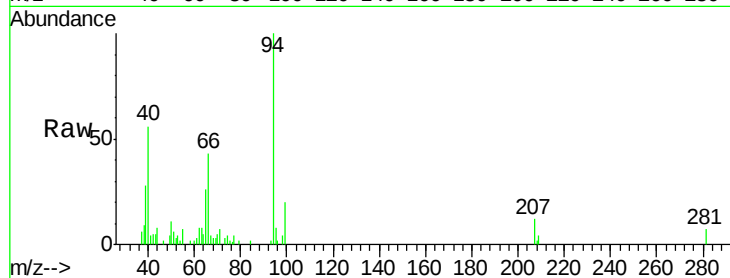
65 25.9 28.2 42.4#

66 43.4 47.2 70.8#

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#44

Dimethylphthalate

Concen: 3.289 ng/ul

RT: 13.79 min Scan# 1819

Delta R.T. -0.00 min

Lab File: BM013373.D

Acq: 13 Dec 2017 14:49

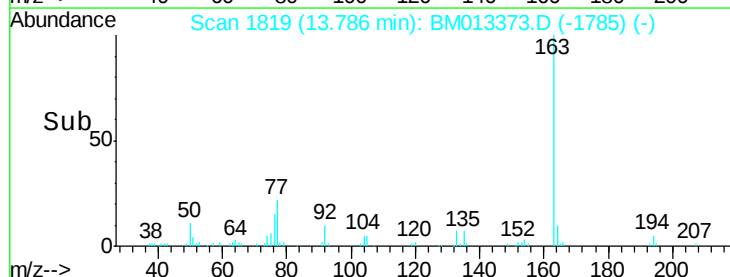
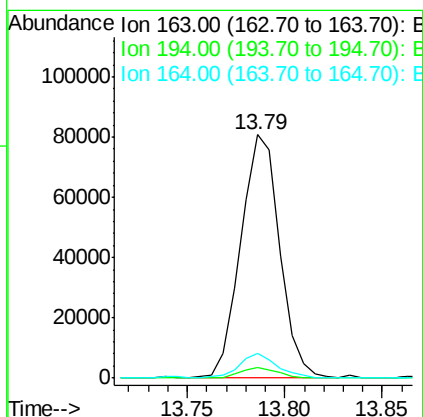
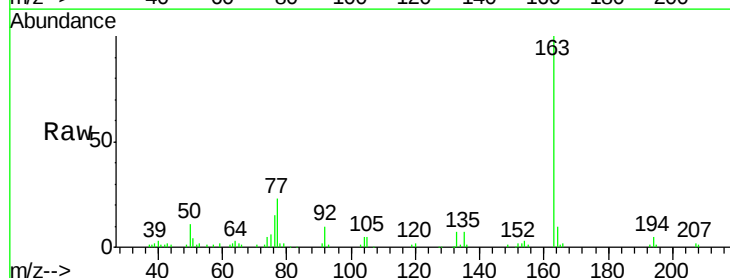
Tgt Ion: 163 Resp: 112026

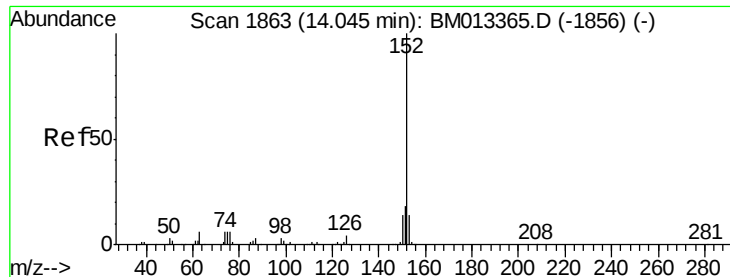
Ion Ratio Lower Upper

163 100

194 4.5 3.5 5.3

164 10.0 8.2 12.4





#47

Acenaphthylene

Concen: 4.803 ng/ul

RT: 14.04 min Scan# 1863

Delta R.T. -0.00 min

Lab File: BM013373.D

Acq: 13 Dec 2017 14:49

Instrument :

BNA\_M

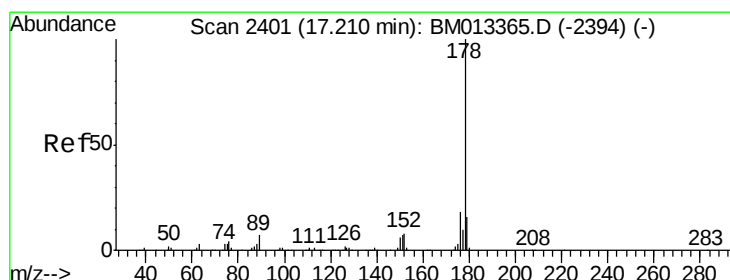
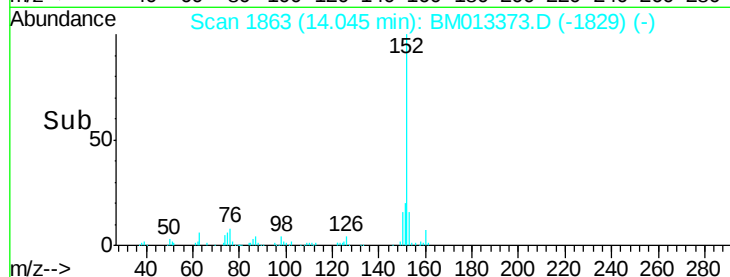
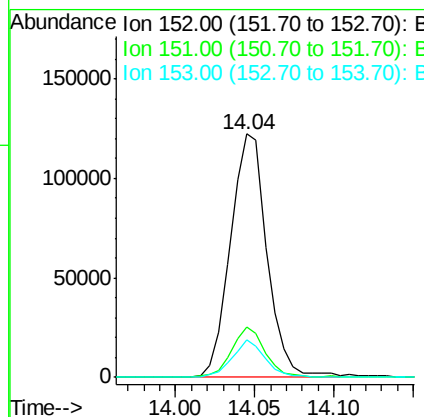
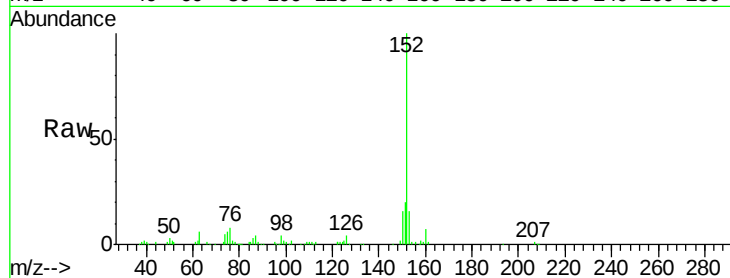
ClientSampleId :

F9A53

|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 152  | Resp: | 195351 |
| Ion Ratio |      | Lower | Upper  |
| 152       | 100  |       |        |
| 151       | 20.5 | 16.3  | 24.5   |
| 153       | 15.5 | 10.2  | 15.4#  |

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#71

Anthracene

Concen: 2.089 ng/ul

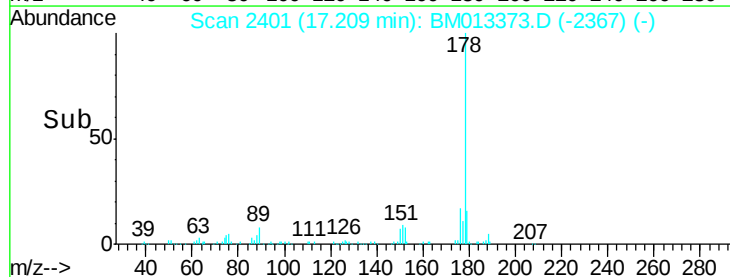
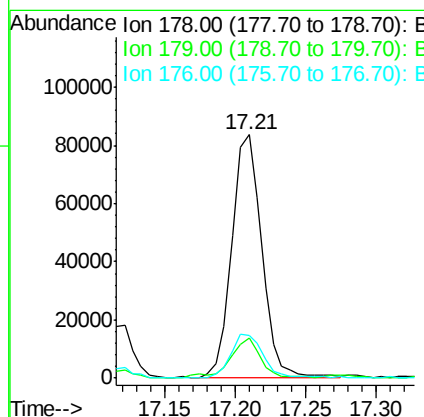
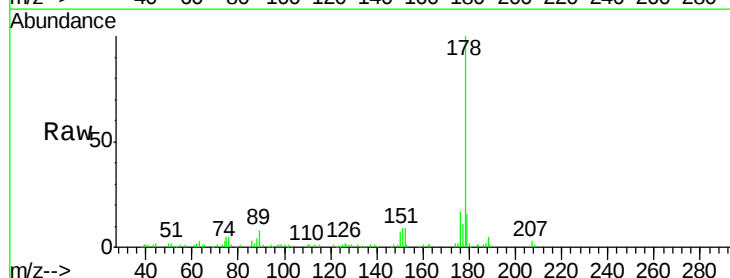
RT: 17.21 min Scan# 2401

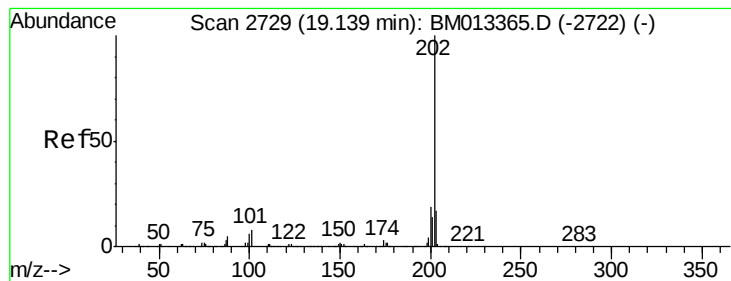
Delta R.T. -0.00 min

Lab File: BM013373.D

Acq: 13 Dec 2017 14:49

|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 178  | Resp: | 125204 |
| Ion Ratio |      | Lower | Upper  |
| 178       | 100  |       |        |
| 179       | 16.3 | 11.7  | 17.5   |
| 176       | 17.3 | 14.6  | 21.8   |





#74

Fluoranthene

Concen: 3.389 ng/ul m

RT: 19.14 min Scan# 2729

Delta R.T. -0.00 min

Lab File: BM013373.D

Acq: 13 Dec 2017 14:49

Instrument :

BNA\_M

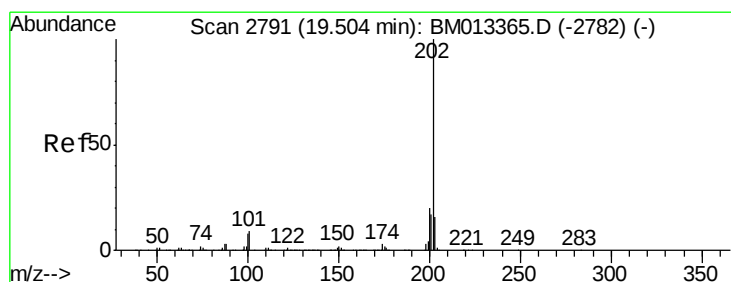
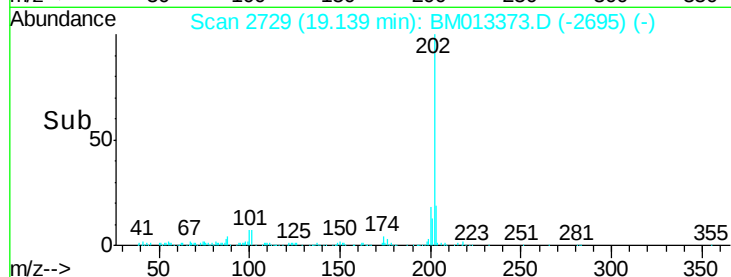
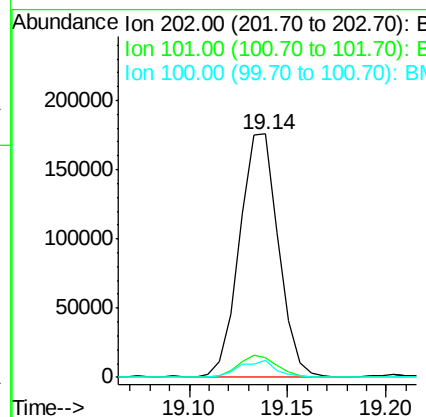
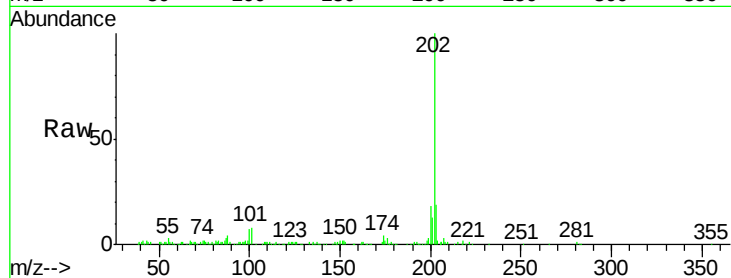
ClientSampleId :

F9A53

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 243472 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 7.8   | 4.6   | 7.0#   |
| 100       | 6.8   | 3.4   | 5.2#   |

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#77

Pyrene

Concen: 4.757 ng/ul

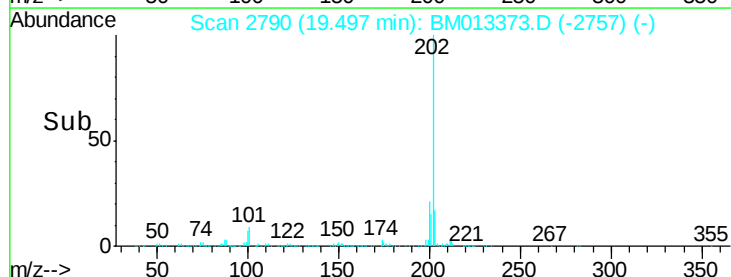
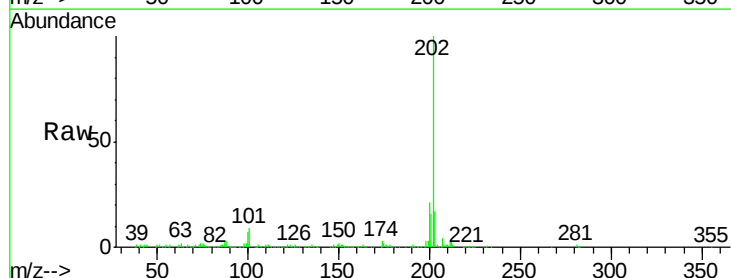
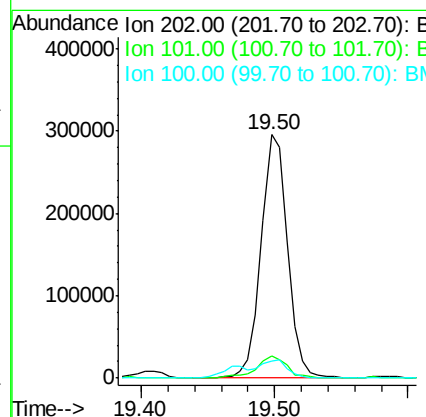
RT: 19.50 min Scan# 2790

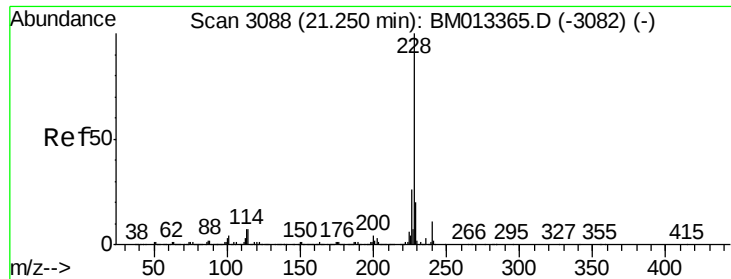
Delta R.T. -0.01 min

Lab File: BM013373.D

Acq: 13 Dec 2017 14:49

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 404439 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 9.0   | 5.1   | 7.7#   |
| 100       | 7.3   | 4.9   | 7.3    |





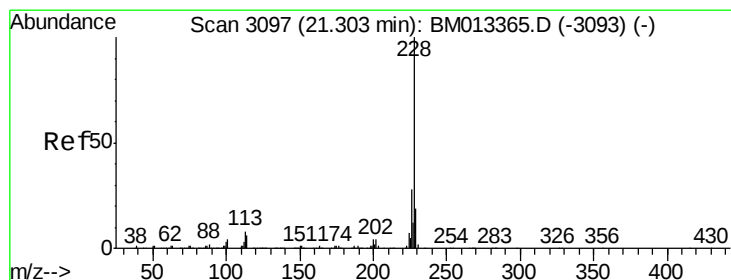
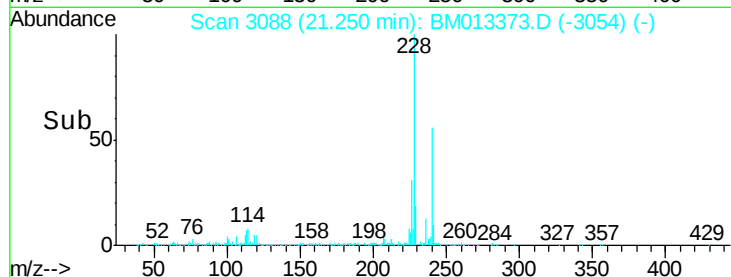
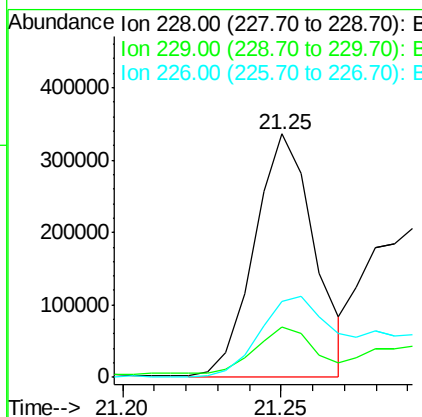
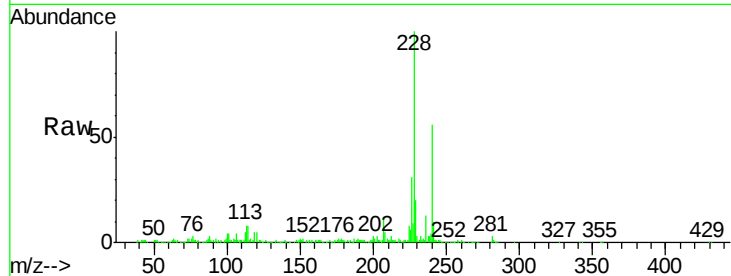
#80  
Benzo(a)anthracene  
Concen: 4.965 ng/ul  
RT: 21.25 min Scan# 3088  
Delta R.T. -0.00 min  
Lab File: BM013373.D  
Acq: 13 Dec 2017 14:49

Instrument :  
BNA\_M  
ClientSampled :  
F9A53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 20.5  | 15.4  | 23.0  |
| 226     | 31.3  | 21.4  | 32.0  |

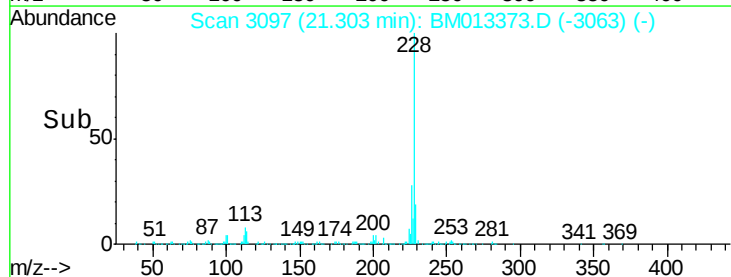
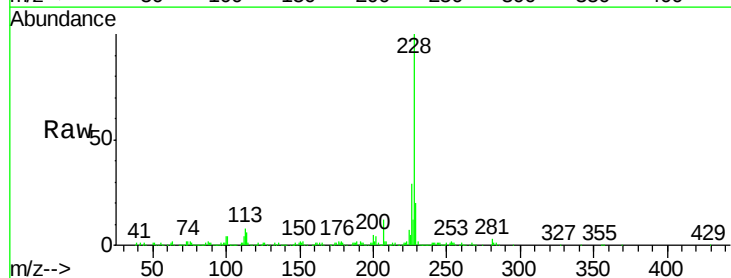
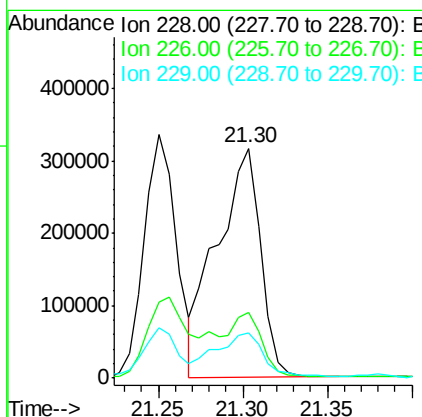
Manual Integrations  
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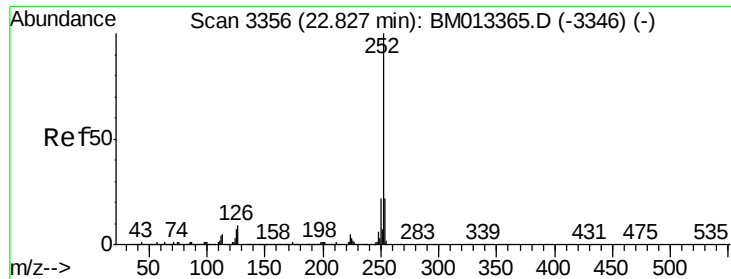
Sohil  
12/15/2017 7:34:00 PM



#82  
Chrysene  
Concen: 6.906 ng/ul  
RT: 21.30 min Scan# 3097  
Delta R.T. -0.00 min  
Lab File: BM013373.D  
Acq: 13 Dec 2017 14:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 28.6  | 23.4  | 35.2  |
| 229     | 19.8  | 15.5  | 23.3  |





#85

Benzo(b)fluoranthene

Concen: 16.280 ng/ul

RT: 22.83 min Scan# 3356

Delta R.T. -0.00 min

Lab File: BM013373.D

Acq: 13 Dec 2017 14:49

Instrument :

BNA\_M

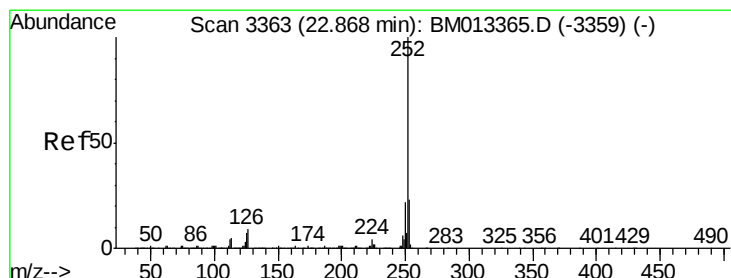
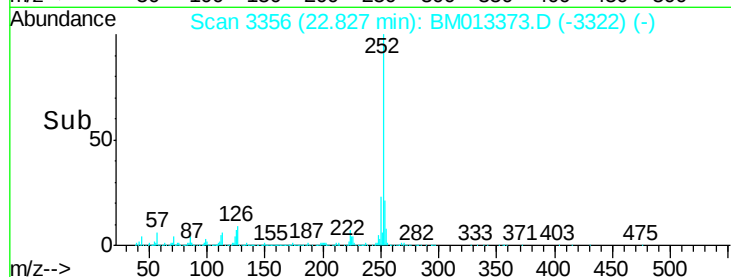
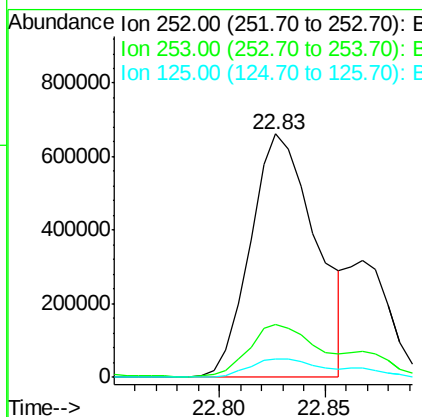
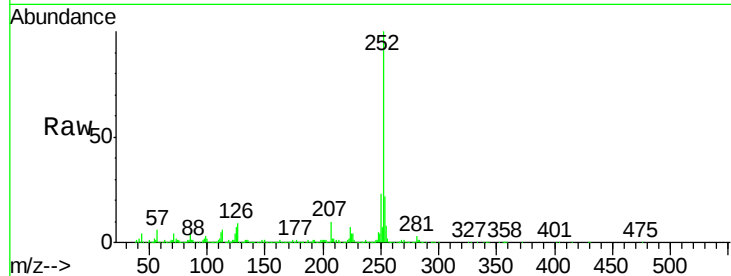
ClientSampled :

F9A53

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 252   | Resp: | 1421069 |
| Ion Ratio | Lower | Upper |         |
| 252       | 100   |       |         |
| 253       | 21.7  | 17.9  | 26.9    |
| 125       | 7.3   | 3.6   | 5.4#    |

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#86

Benzo(k)fluoranthene

Concen: 5.352 ng/ul m

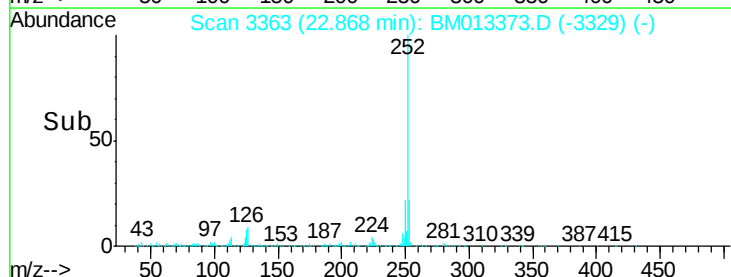
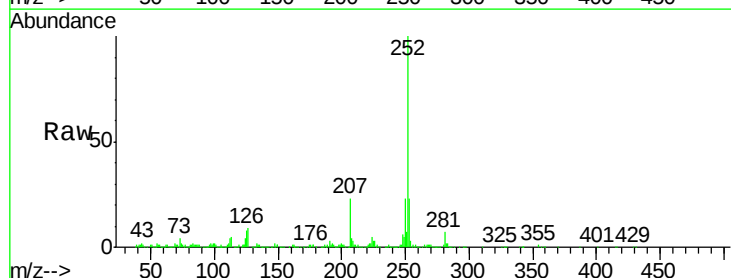
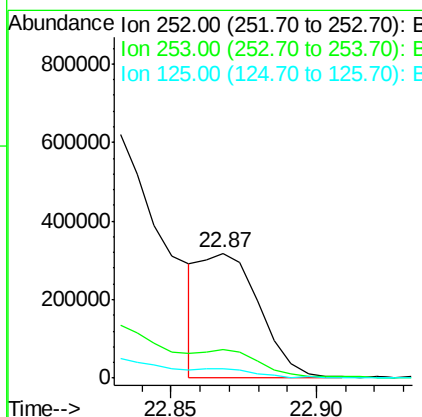
RT: 22.87 min Scan# 3363

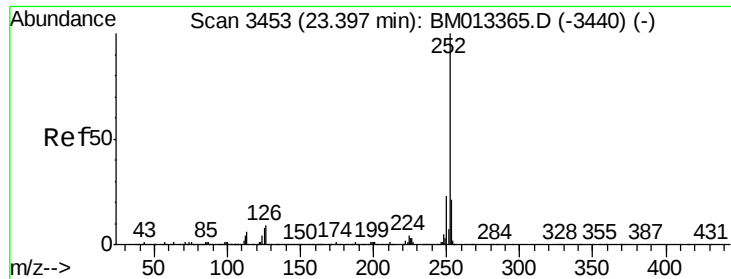
Delta R.T. -0.00 min

Lab File: BM013373.D

Acq: 13 Dec 2017 14:49

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 439666 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 22.7  | 17.1  | 25.7   |
| 125       | 7.7   | 3.4   | 5.2#   |





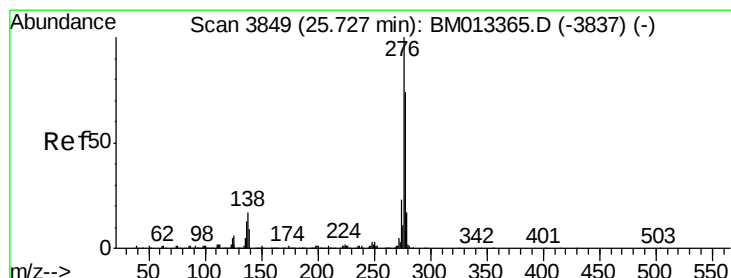
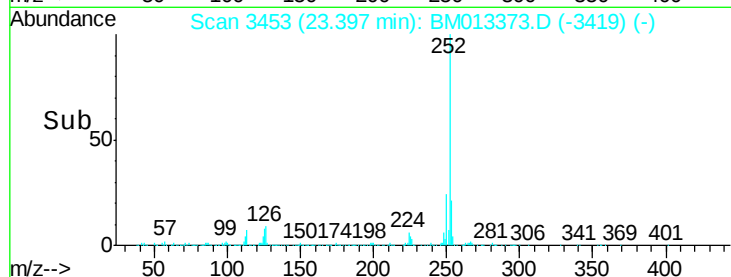
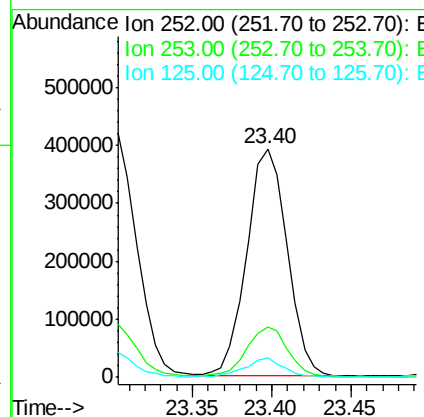
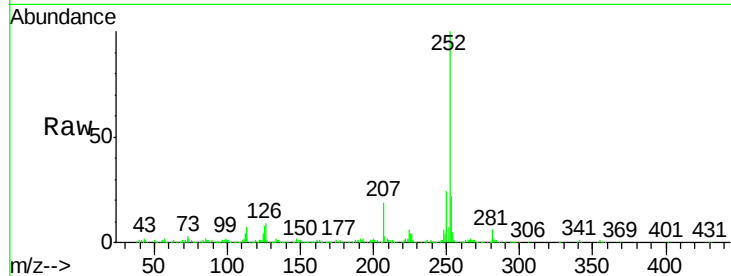
#88  
Benzo(a)pyrene  
Concen: 8.890 ng/ul  
RT: 23.40 min Scan# 3453  
Delta R.T. -0.00 min  
Lab File: BM013373.D  
Acq: 13 Dec 2017 14:49

Instrument :  
BNA\_M  
ClientSampleId :  
F9A53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 21.9  | 18.2  | 27.2  |
| 125     | 8.3   | 4.0   | 6.0   |

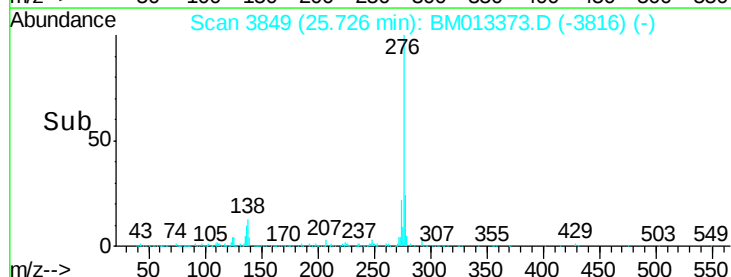
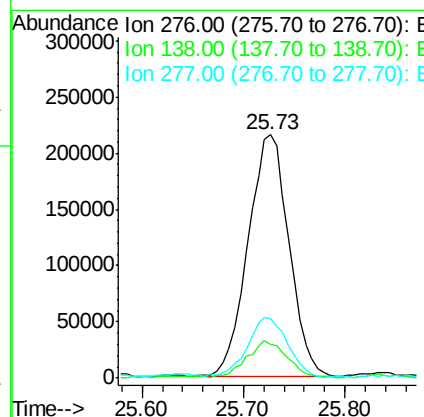
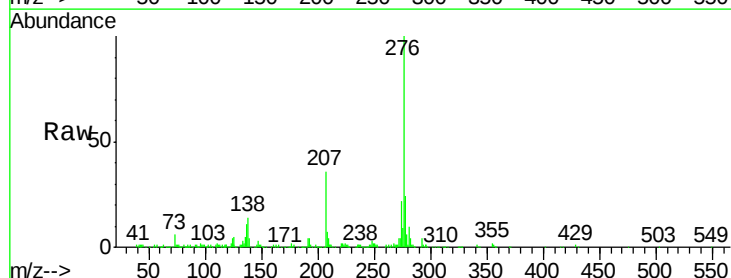
Manual Integrations  
APPROVED

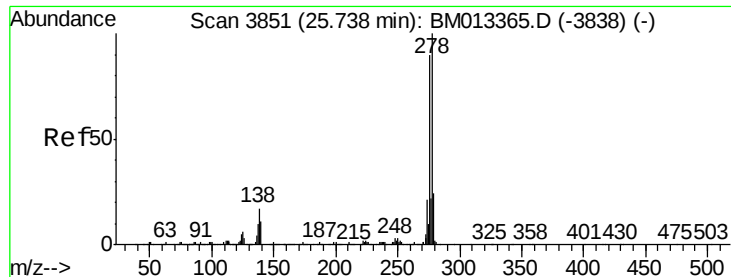
Sohil  
12/15/2017 7:34:00 PM



#89  
Indeno(1,2,3-cd)pyrene  
Concen: 7.731 ng/ul  
RT: 25.73 min Scan# 3849  
Delta R.T. -0.01 min  
Lab File: BM013373.D  
Acq: 13 Dec 2017 14:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 13.8  | 9.3   | 13.9  |
| 277     | 24.2  | 19.9  | 29.9  |





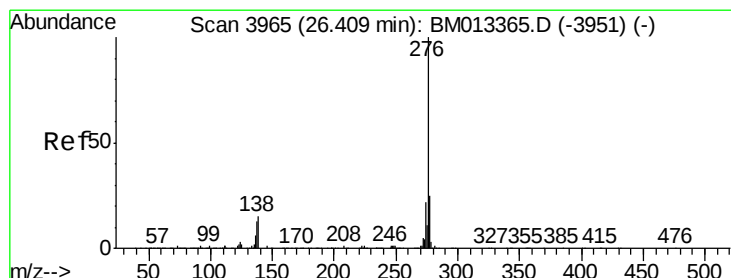
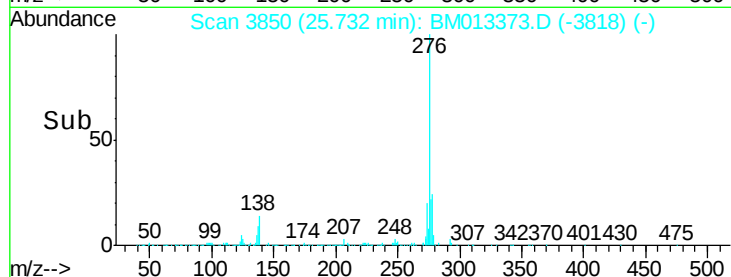
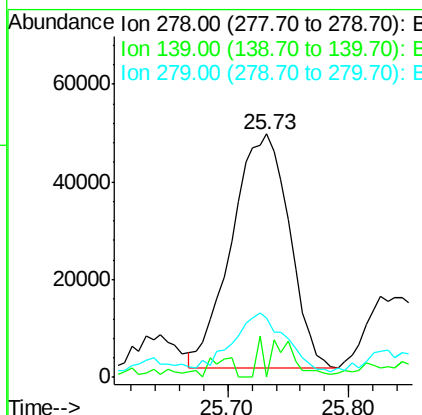
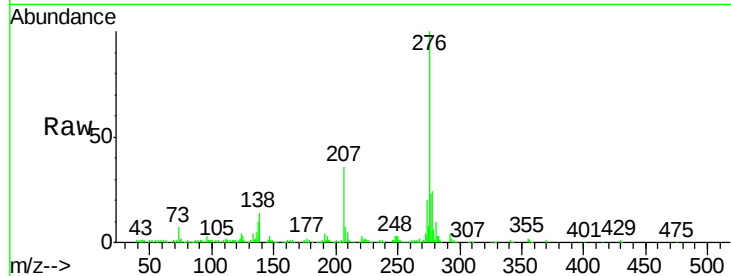
#90  
Dibenzo(a,h)anthracene  
Concen: 2.375 ng/ul  
RT: 25.73 min Scan# 3850  
Delta R.T. -0.01 min  
Lab File: BM013373.D  
Acq: 13 Dec 2017 14:49

Instrument :  
BNA\_M  
ClientSampleId :  
F9A53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 0.0   | 5.8   | 8.8#  |
| 279     | 24.1  | 18.6  | 27.8  |

Manual Integrations  
APPROVED

Sohil  
12/15/2017 7:34:00 PM



#91  
Benzo(g,h,i)perylene  
Concen: 7.891 ng/ul  
RT: 26.41 min Scan# 3965  
Delta R.T. -0.00 min  
Lab File: BM013373.D  
Acq: 13 Dec 2017 14:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 13.0  | 8.5   | 12.7# |
| 277     | 25.0  | 18.6  | 28.0  |

