

Data File : BM012307.D  
Acq On : 19 Oct 2017 08:01  
Operator : SJ/JU  
Sample : I5693-02 2X  
Misc :  
ALS Vial : 26 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
B-55(3.5-5)-100317

Manual Integrations  
APPROVED

Sohil  
10/23/2017 3:50:06 PM

Quant Time: Oct 19 15:52:23 2017  
Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM101217.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu Oct 19 15:00:52 2017  
Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.78  | 152  | 253845   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.58 | 136  | 934861   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.43 | 164  | 471038   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.19 | 188  | 987517   | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.37 | 240  | 1161211  | 20.00 | ng/ul | 0.01     |
| 83) Perylene-d12          | 23.67 | 264  | 1309583  | 20.00 | ng/ul | 0.01     |

#### System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.20  | 96  | 14784  | 2.77  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.96  | 99  | 245892 | 11.94 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.12  | 67  | 165783 | 13.42 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.32  | 132 | 230608 | 13.20 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.50  | 113 | 202658 | 11.43 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.95  | 128 | 100329 | 14.06 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.67  | 143 | 113114 | 13.57 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.23 | 165 | 194069 | 12.19 | ng/ul | 0.01 |
| 29) 4-Chloroaniline-d4         | 10.75 | 131 | 120598 | 8.10  | ng/ul | 0.02 |
| 43) Dimethylphthalate-d6       | 13.85 | 166 | 616907 | 14.82 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.13 | 160 | 742796 | 14.74 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.72 | 143 | 35186  | 5.62  | ng/ul | 0.05 |
| 57) Fluorene-d10               | 15.43 | 176 | 487503 | 14.27 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.60 | 200 | 7190   | 1.06  | ng/ul | 0.02 |
| 70) Anthracene-d10             | 17.29 | 188 | 718630 | 14.72 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.58 | 212 | 819897 | 13.91 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 23.53 | 264 | 931430 | 14.75 | ng/ul | 0.02 |

#### Target Compounds

|                            |       |     |         |        | Qvalue |    |
|----------------------------|-------|-----|---------|--------|--------|----|
| 6) Phenol                  | 6.99  | 94  | 57571   | 2.704  | ng/ul# | 89 |
| 16) 4-Methylphenol         | 8.56  | 108 | 126682  | 7.179  | ng/ul  | 94 |
| 28) Naphthalene            | 10.63 | 128 | 81388   | 1.683  | ng/ul  | 98 |
| 44) Dimethylphthalate      | 13.89 | 163 | 261914  | 6.279  | ng/ul  | 99 |
| 49) Acenaphthene           | 14.50 | 153 | 61193   | 1.836  | ng/ul  | 95 |
| 58) Fluorene               | 15.49 | 166 | 65348   | 1.639  | ng/ul  | 97 |
| 69) Phenanthrene           | 17.23 | 178 | 627631  | 11.172 | ng/ul  | 98 |
| 71) Anthracene             | 17.32 | 178 | 179715  | 3.090  | ng/ul  | 96 |
| 74) Fluoranthene           | 19.25 | 202 | 1341938 | 19.794 | ng/ul# | 95 |
| 77) Pyrene                 | 19.62 | 202 | 1302036 | 16.978 | ng/ul# | 95 |
| 80) Benzo(a)anthracene     | 21.36 | 228 | 833502  | 11.031 | ng/ul# | 95 |
| 82) Chrysene               | 21.41 | 228 | 758605  | 10.694 | ng/ul# | 93 |
| 85) Benzo(b)fluoranthene   | 22.98 | 252 | 1071605 | 12.539 | ng/ul# | 89 |
| 86) Benzo(k)fluoranthene   | 23.02 | 252 | 361823m | 4.393  | ng/ul  |    |
| 88) Benzo(a)pyrene         | 23.57 | 252 | 818810  | 10.165 | ng/ul# | 89 |
| 89) Indeno(1,2,3-cd)pyrene | 26.03 | 276 | 537353  | 6.282  | ng/ul# | 96 |
| 90) Dibenzo(a,h)anthracene | 26.02 | 278 | 145887  | 2.029  | ng/ul# | 60 |
| 91) Benzo(g,h,i)perylene   | 26.76 | 276 | 483133  | 6.896  | ng/ul# | 91 |

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

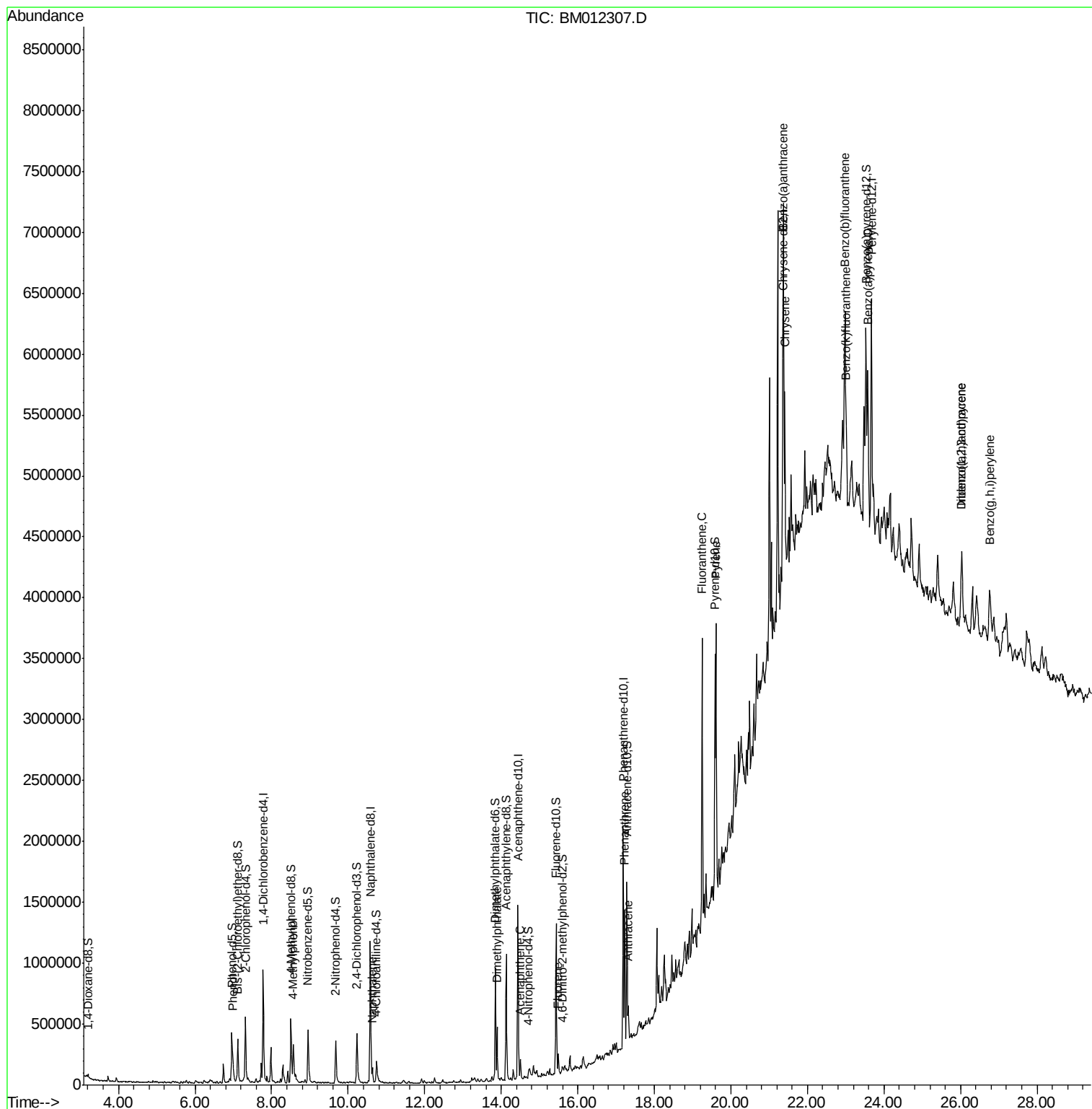
Data File : BM012307.D  
Acq On : 19 Oct 2017 08:01  
Operator : SJ/JU  
Sample : I5693-02 2X  
Misc :  
ALS Vial : 26 Sample Multiplier: 1

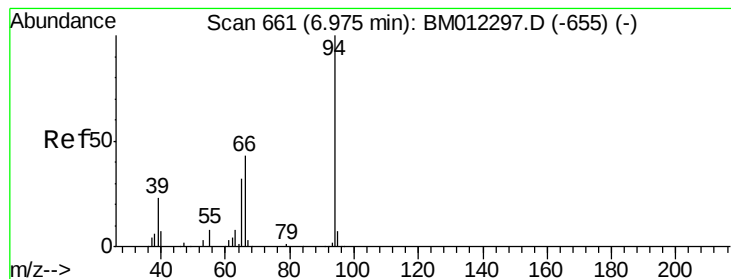
Instrument :  
BNA\_M  
ClientSampleId :  
B-55(3.5-5)-100317

Manual Integrations  
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10/23/2017 3:50:06 PM

Quant Time: Oct 19 15:52:23 2017  
Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM101217.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu Oct 19 15:00:52 2017  
Response via : Initial Calibration





#6

Phenol

Concen: 2.704 ng/ul

RT: 6.99 min Scan# 664

Delta R.T. 0.01 min

Lab File: BM012307.D

Acq: 19 Oct 2017 08:01

Instrument :

BNA\_M

ClientSampleId :

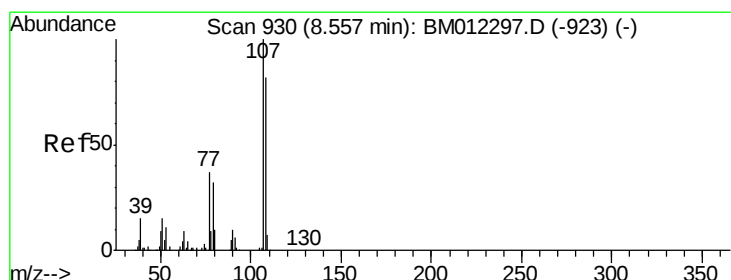
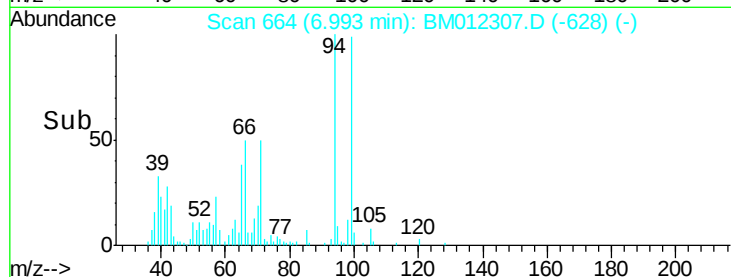
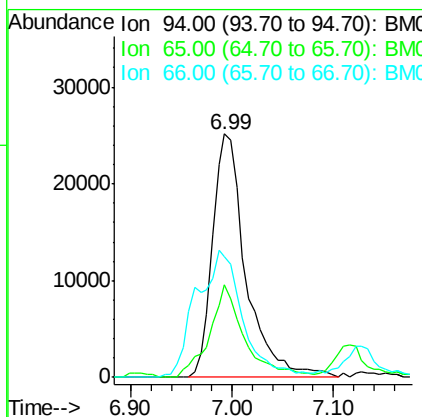
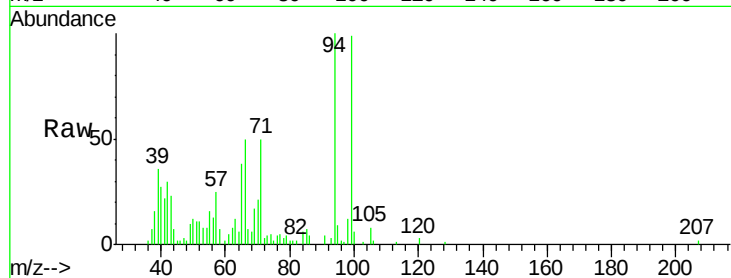
B-55(3.5-5)-100317

Tgt Ion: 94 Resp: 57571

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 94  | 100   |       |       |
| 65  | 37.9  | 24.4  | 36.6# |
| 66  | 49.7  | 35.0  | 52.4  |

Manual Integrations  
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#16

4-Methylphenol

Concen: 7.179 ng/ul

RT: 8.56 min Scan# 931

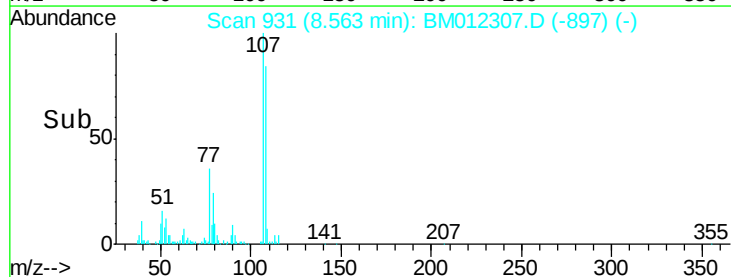
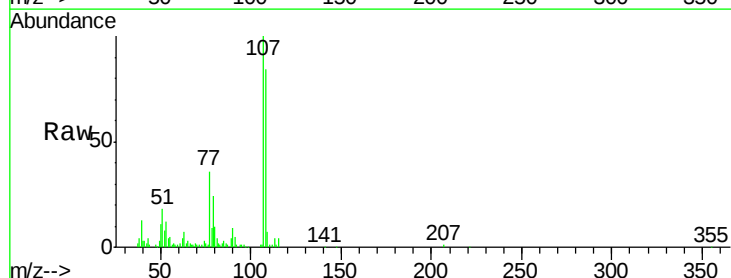
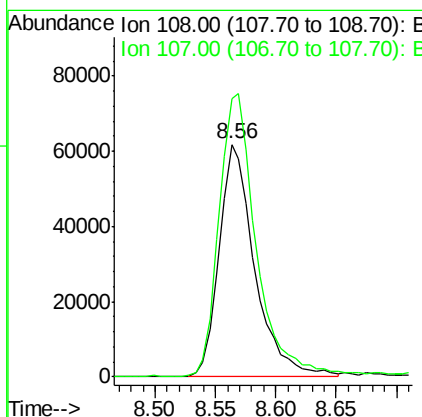
Delta R.T. 0.00 min

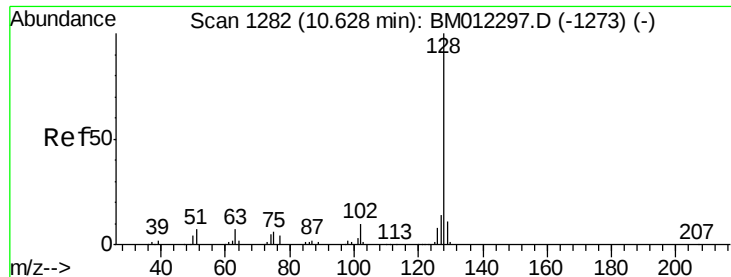
Lab File: BM012307.D

Acq: 19 Oct 2017 08:01

Tgt Ion: 108 Resp: 126682

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 108 | 100   |       |       |
| 107 | 119.4 | 90.1  | 135.1 |





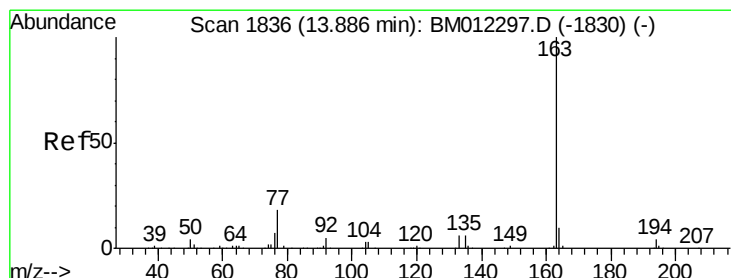
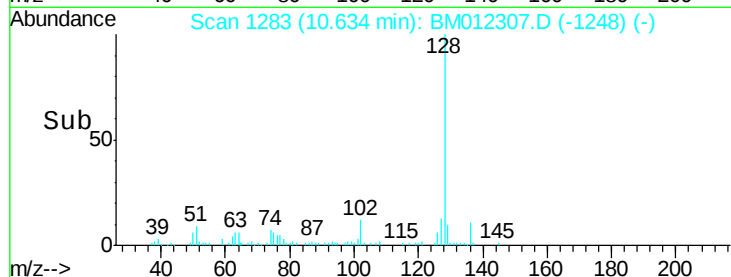
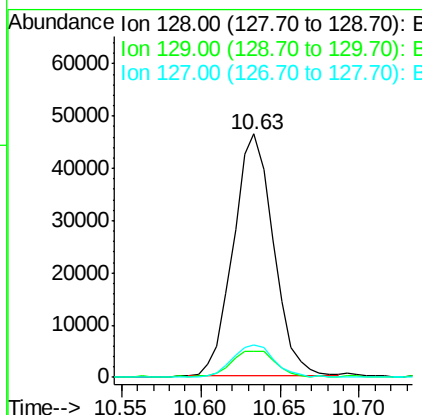
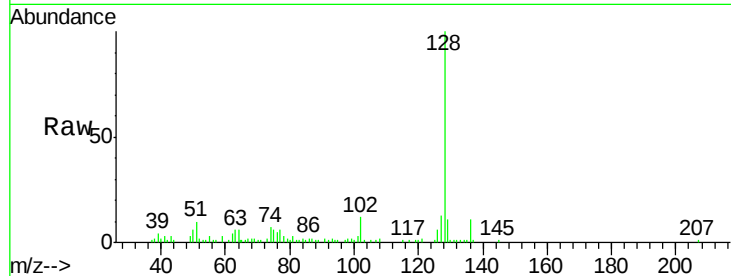
#28  
Naphthalene  
Concen: 1.683 ng/ul  
RT: 10.63 min Scan# 1283  
Delta R.T. 0.01 min  
Lab File: BM012307.D  
Acq: 19 Oct 2017 08:01

Instrument :  
BNA\_M  
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B-55(3.5-5)-100317

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 10.9  | 9.2   | 13.8  |
| 127     | 13.5  | 11.4  | 17.0  |

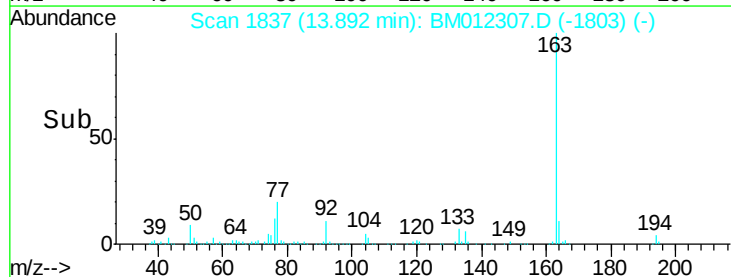
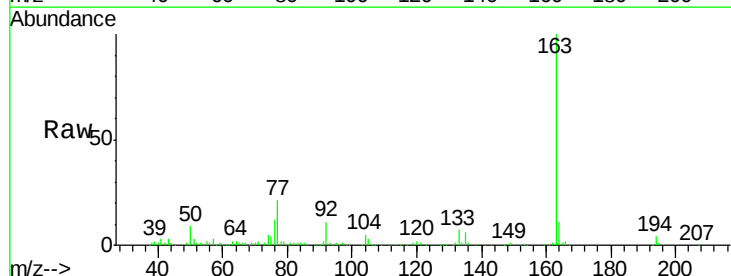
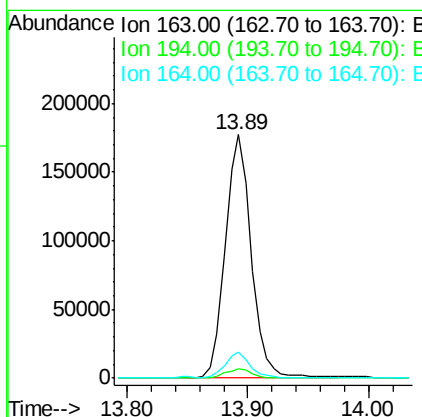
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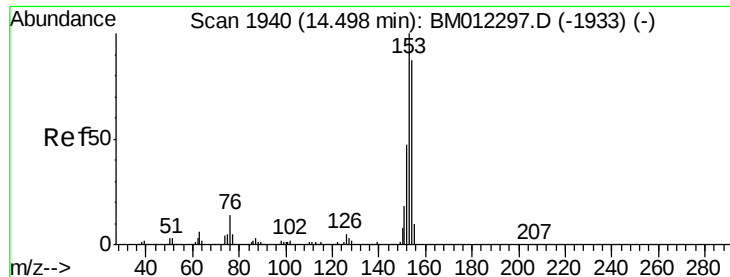
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#44  
Dimethylphthalate  
Concen: 6.279 ng/ul  
RT: 13.89 min Scan# 1837  
Delta R.T. 0.00 min  
Lab File: BM012307.D  
Acq: 19 Oct 2017 08:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 4.1   | 3.7   | 5.5   |
| 164     | 10.6  | 8.1   | 12.1  |





#49

Acenaphthene

Concen: 1.836 ng/ul

RT: 14.50 min Scan# 1940

Delta R.T. 0.00 min

Lab File: BM012307.D

Acq: 19 Oct 2017 08:01

Instrument :

BNA\_M

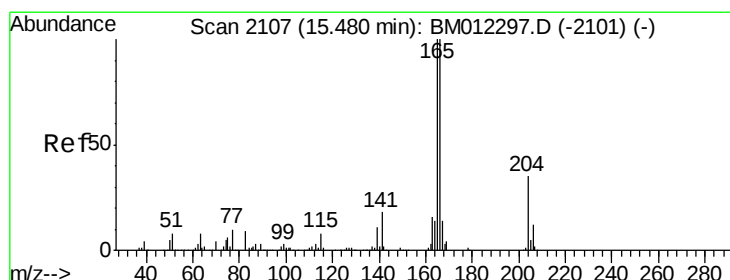
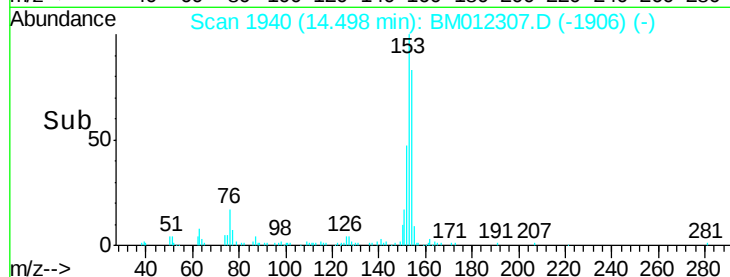
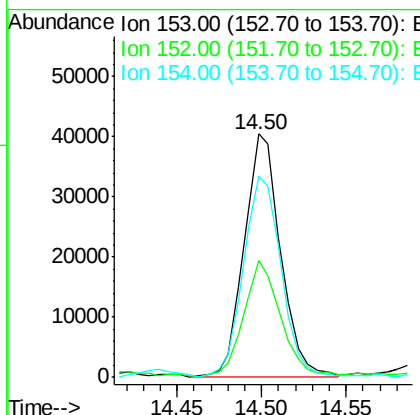
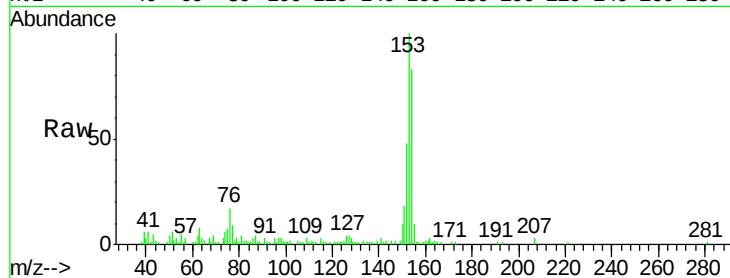
ClientSampleId :

B-55(3.5-5)-100317

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 153   | Resp: | 61193 |
| Ion      | Ratio | Lower | Upper |
| 153      | 100   |       |       |
| 152      | 47.8  | 37.4  | 56.0  |
| 154      | 82.7  | 71.1  | 106.7 |

Manual Integrations  
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#58

Fluorene

Concen: 1.639 ng/ul

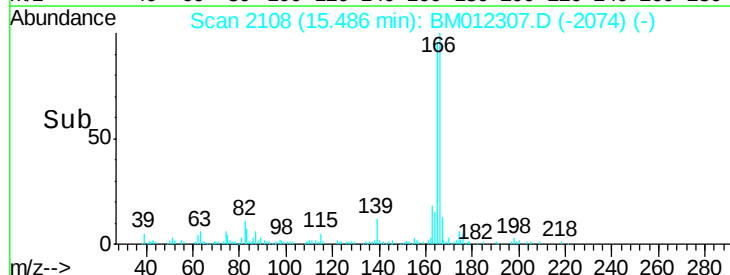
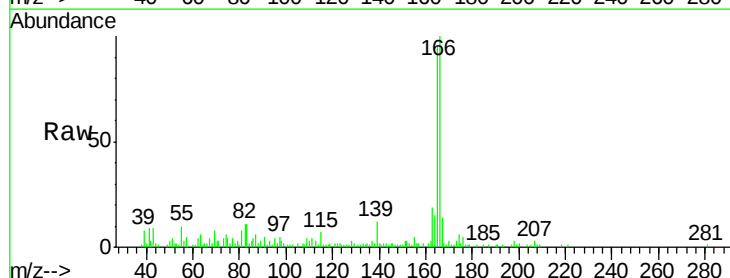
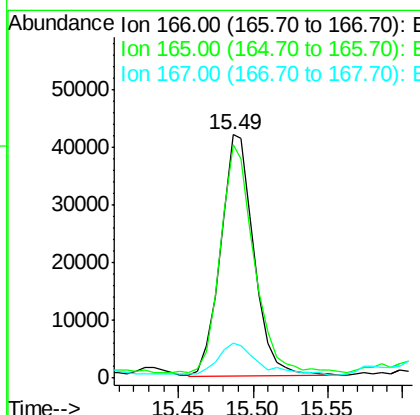
RT: 15.49 min Scan# 2108

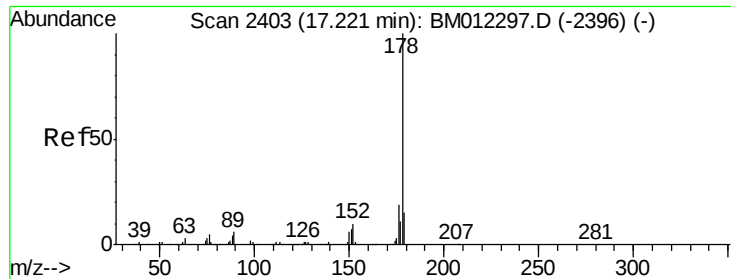
Delta R.T. 0.00 min

Lab File: BM012307.D

Acq: 19 Oct 2017 08:01

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 166   | Resp: | 65348 |
| Ion      | Ratio | Lower | Upper |
| 166      | 100   |       |       |
| 165      | 95.8  | 79.0  | 118.6 |
| 167      | 14.2  | 10.8  | 16.2  |





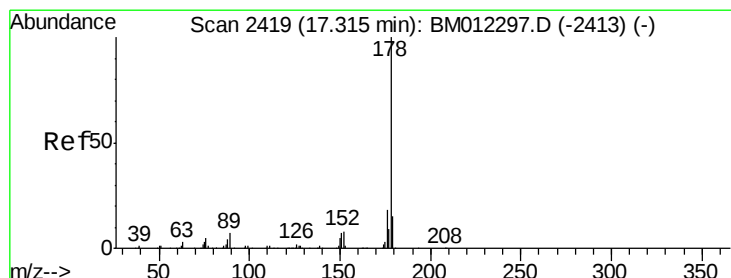
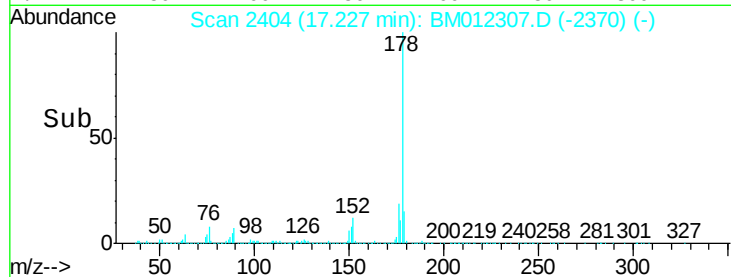
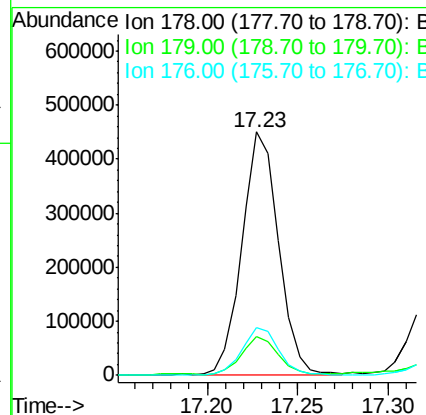
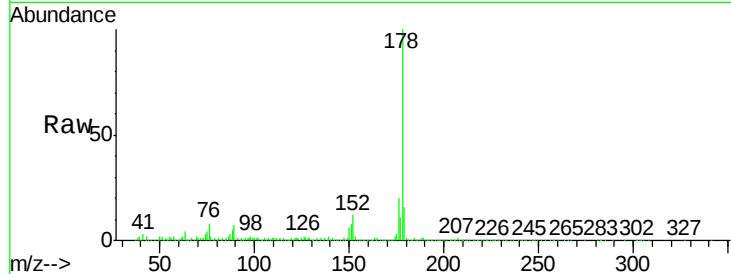
#69  
 Phenanthrene  
 Concen: 11.172 ng/ul  
 RT: 17.23 min Scan# 2404  
 Delta R.T. 0.00 min  
 Lab File: BM012307.D  
 Acq: 19 Oct 2017 08:01

Instrument :  
 BNA\_M  
 ClientSampleId :  
 B-55(3.5-5)-100317

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 15.8  | 12.0  | 18.0  |
| 176     | 19.6  | 15.0  | 22.6  |

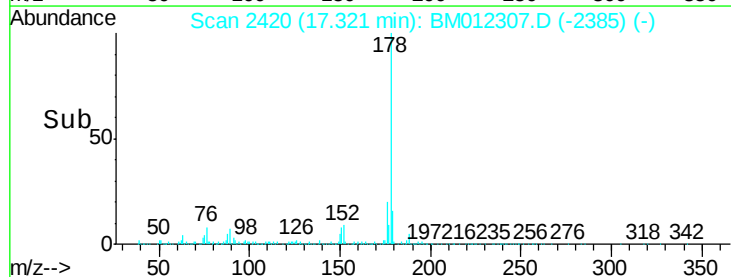
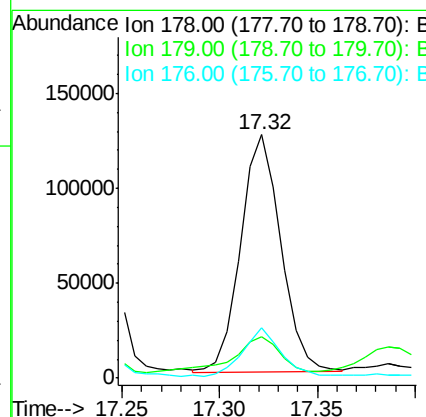
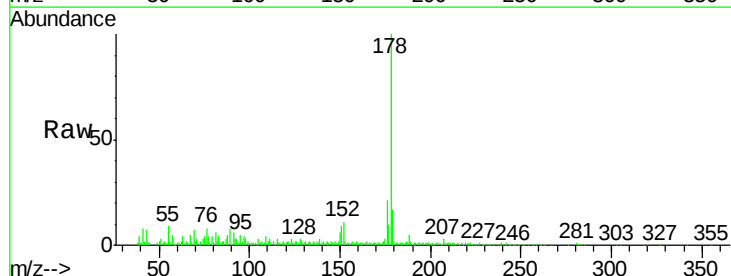
Manual Integrations  
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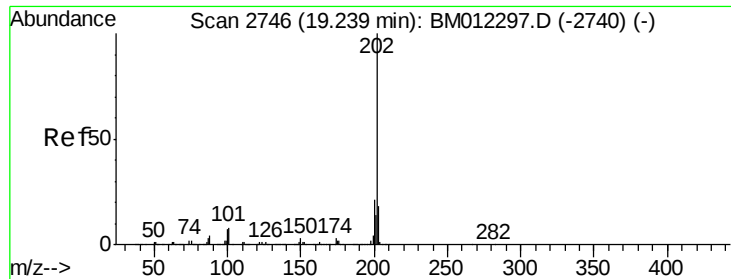
Sohil  
 10/23/2017 3:50:06 PM



#71  
 Anthracene  
 Concen: 3.090 ng/ul  
 RT: 17.32 min Scan# 2420  
 Delta R.T. 0.01 min  
 Lab File: BM012307.D  
 Acq: 19 Oct 2017 08:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 16.8  | 12.2  | 18.4  |
| 176     | 20.6  | 14.7  | 22.1  |





#74

Fluoranthene

Concen: 19.794 ng/ul

RT: 19.25 min Scan# 2748

Delta R.T. 0.01 min

Lab File: BM012307.D

Acq: 19 Oct 2017 08:01

Instrument :

BNA\_M

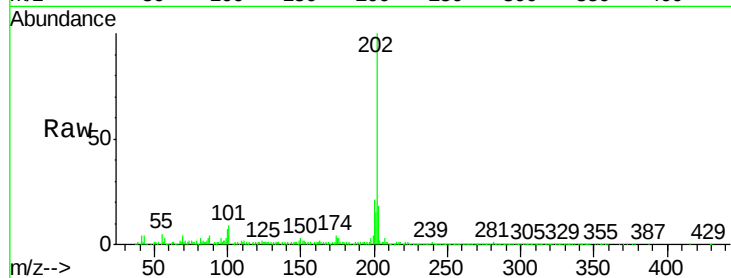
ClientSampleId :

B-55(3.5-5)-100317

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 202   | Resp: | 1341938 |
| Ion Ratio | Lower | Upper |         |
| 202       | 100   |       |         |
| 101       | 8.9   | 5.8   | 8.6#    |
| 100       | 7.1   | 4.3   | 6.5#    |

Manual Integrations  
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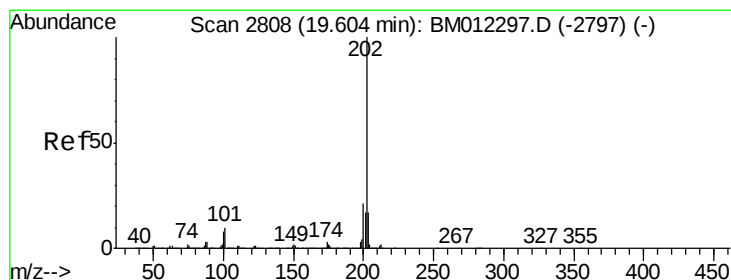
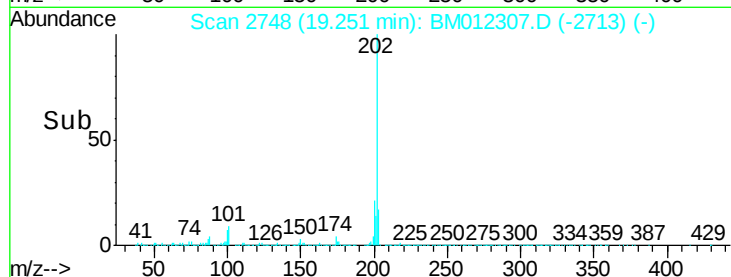
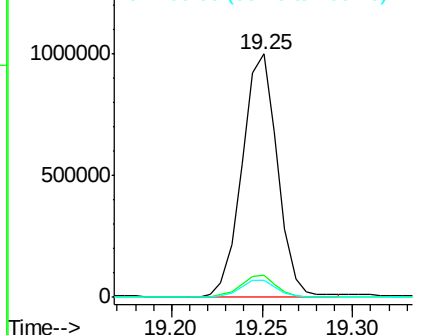
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Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B



#77

Pyrene

Concen: 16.978 ng/ul

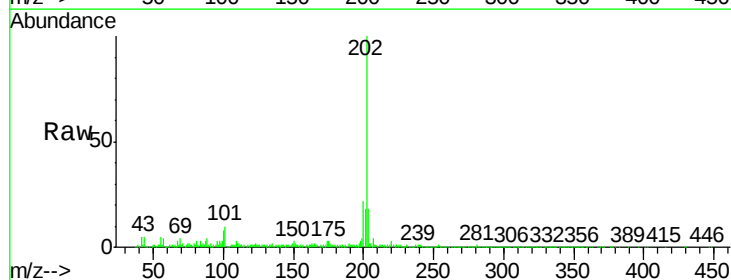
RT: 19.62 min Scan# 2810

Delta R.T. 0.01 min

Lab File: BM012307.D

Acq: 19 Oct 2017 08:01

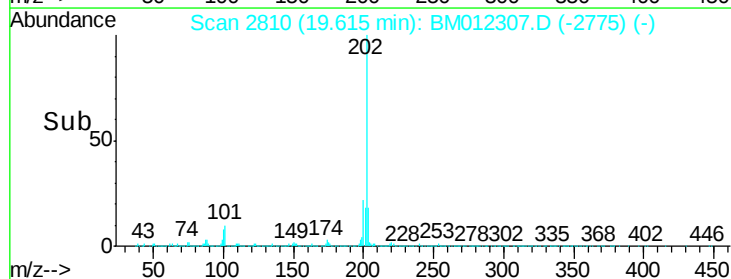
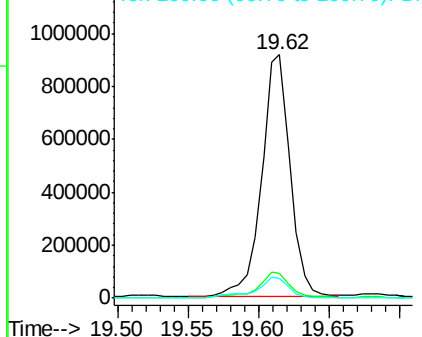
|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 202   | Resp: | 1302036 |
| Ion Ratio | Lower | Upper |         |
| 202       | 100   |       |         |
| 101       | 10.2  | 6.5   | 9.7#    |
| 100       | 8.0   | 5.6   | 8.4     |

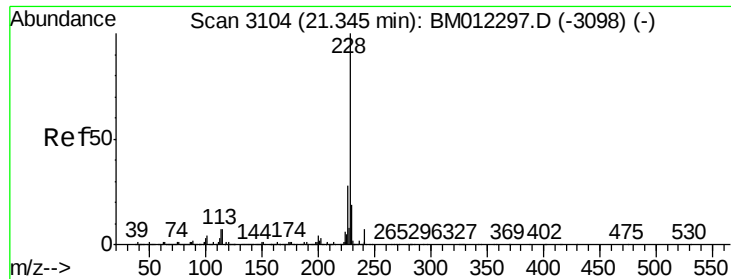


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B





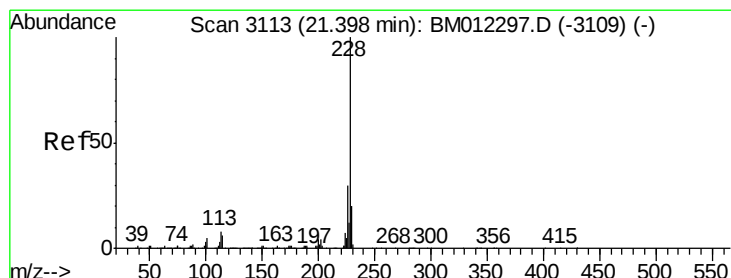
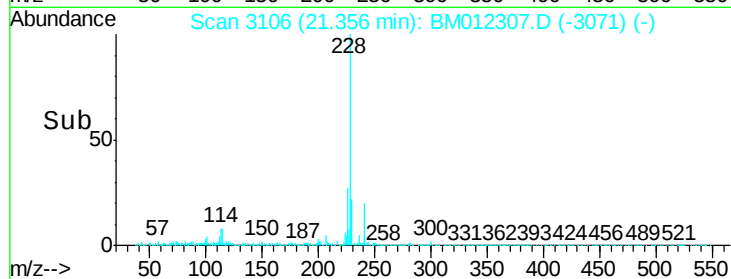
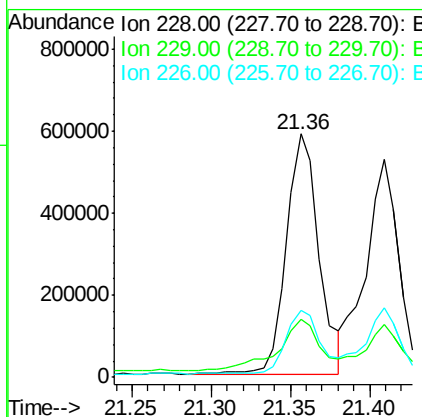
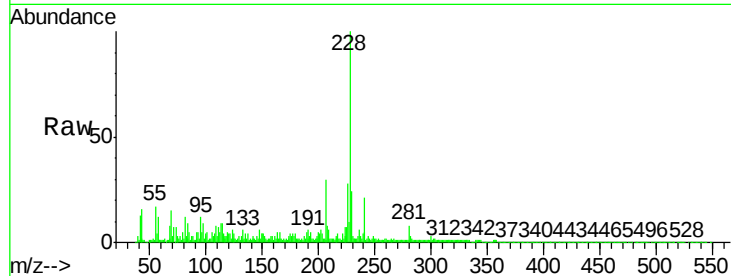
#80  
Benzo(a)anthracene  
Concen: 11.031 ng/ul  
RT: 21.36 min Scan# 3106  
Delta R.T. 0.01 min  
Lab File: BM012307.D  
Acq: 19 Oct 2017 08:01

Instrument :  
BNA\_M  
ClientSampleId :  
B-55(3.5-5)-100317

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 24.1  | 15.8  | 23.8# |
| 226     | 27.7  | 21.4  | 32.2  |

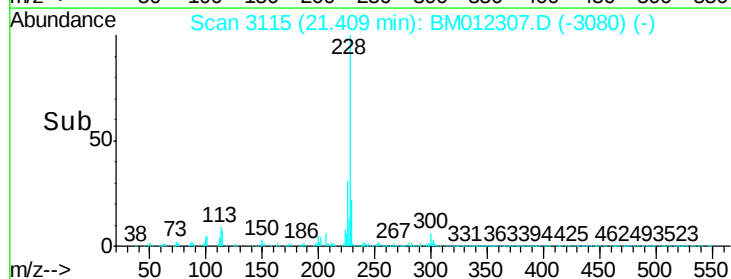
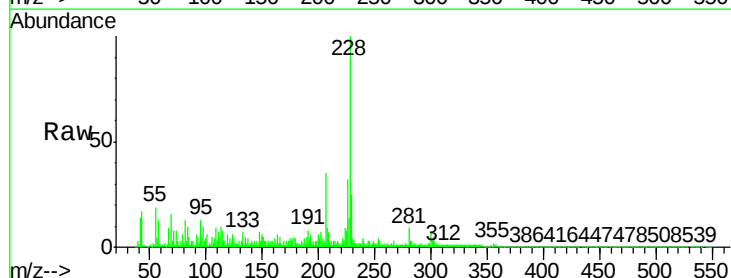
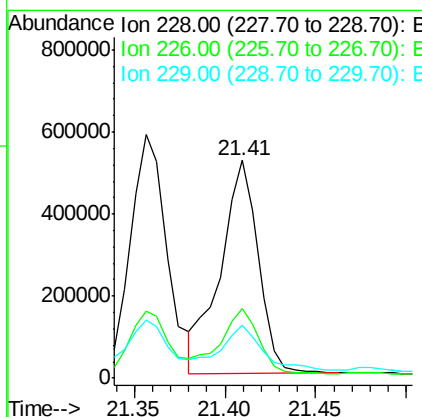
Manual Integrations  
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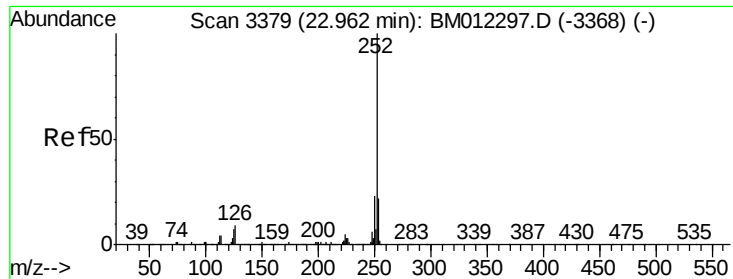
Sohil  
10/23/2017 3:50:06 PM



#82  
Chrysene  
Concen: 10.694 ng/ul  
RT: 21.41 min Scan# 3115  
Delta R.T. 0.01 min  
Lab File: BM012307.D  
Acq: 19 Oct 2017 08:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 32.1  | 24.0  | 36.0  |
| 229     | 24.5  | 15.5  | 23.3# |





#85

Benzo(b)fluoranthene

Concen: 12.539 ng/ul

RT: 22.98 min Scan# 3382

Delta R.T. 0.02 min

Lab File: BM012307.D

Acq: 19 Oct 2017 08:01

Instrument :

BNA\_M

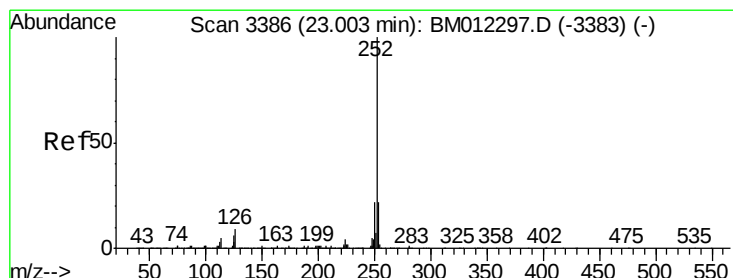
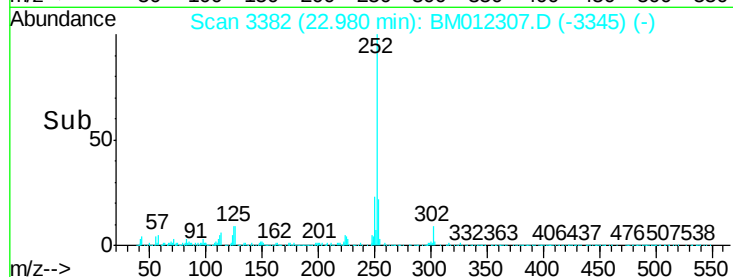
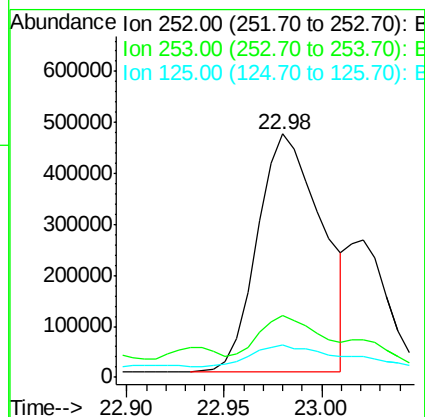
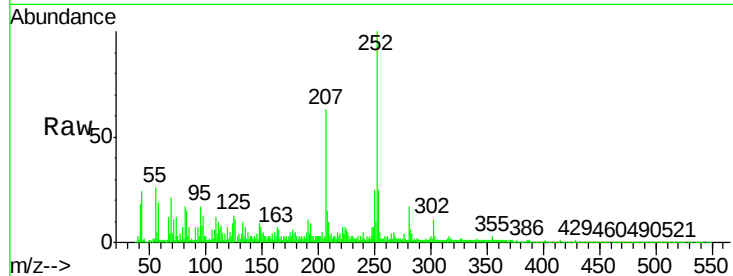
ClientSampleId :

B-55(3.5-5)-100317

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.5  | 17.4  | 26.2  |
| 125     | 13.3  | 5.1   | 7.7#  |

Manual Integrations  
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#86

Benzo(k)fluoranthene

Concen: 4.393 ng/ul m

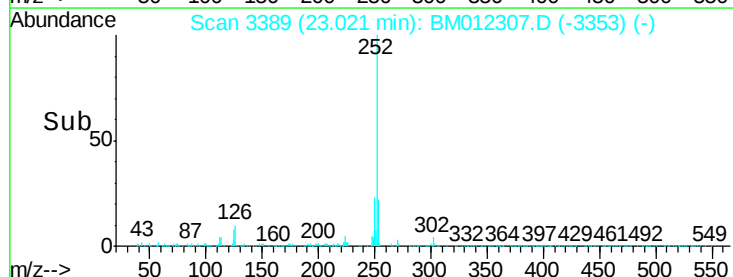
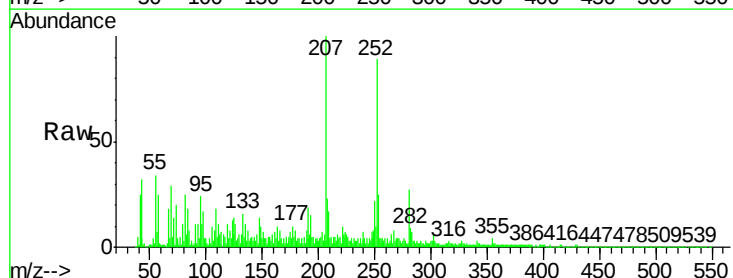
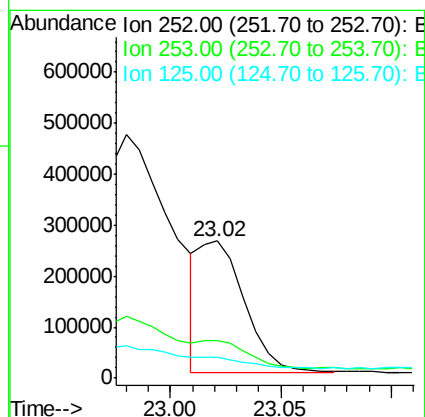
RT: 23.02 min Scan# 3389

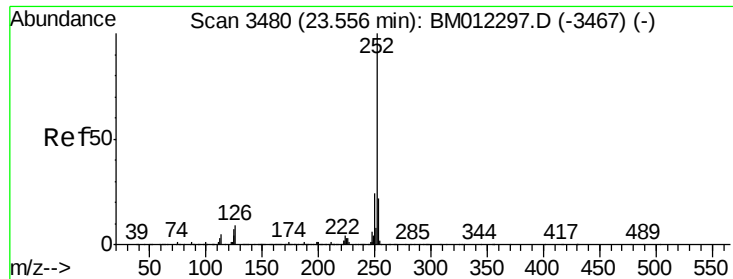
Delta R.T. 0.01 min

Lab File: BM012307.D

Acq: 19 Oct 2017 08:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 27.6  | 17.8  | 26.6# |
| 125     | 15.2  | 4.9   | 7.3#  |





#88

Benzo(a)pyrene

Concen: 10.165 ng/ul

RT: 23.57 min Scan# 3483

Delta R.T. 0.02 min

Lab File: BM012307.D

Acq: 19 Oct 2017 08:01

Instrument :

BNA\_M

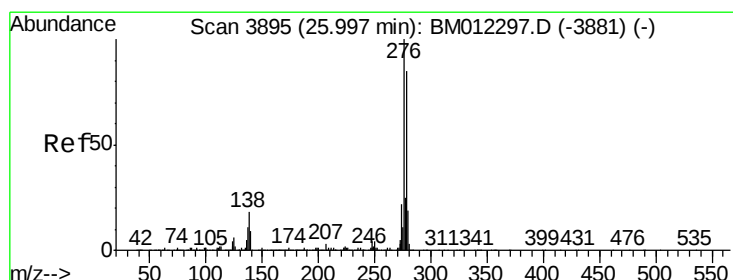
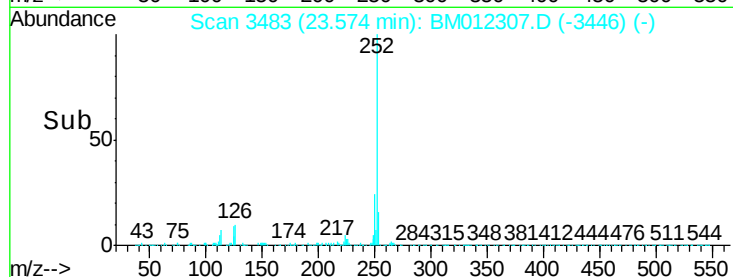
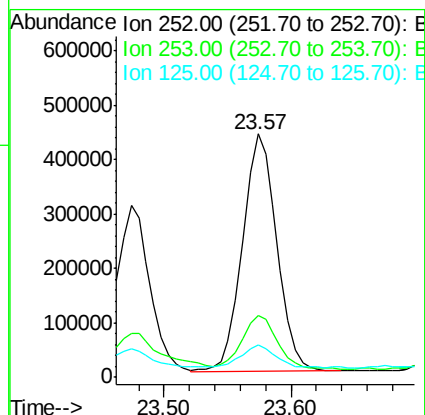
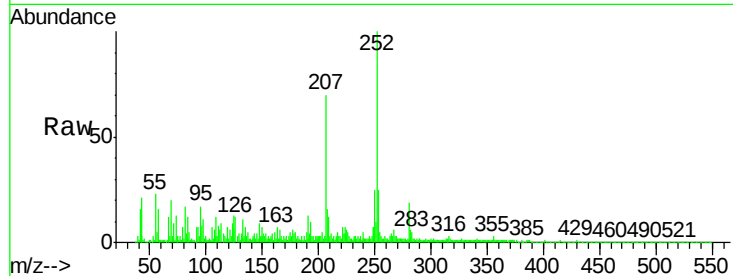
ClientSampleId :

B-55(3.5-5)-100317

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 818810 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 25.4  | 17.1  | 25.7   |
| 125       | 13.4  | 5.2   | 7.8#   |

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#89

Indeno(1,2,3-cd)pyrene

Concen: 6.282 ng/ul

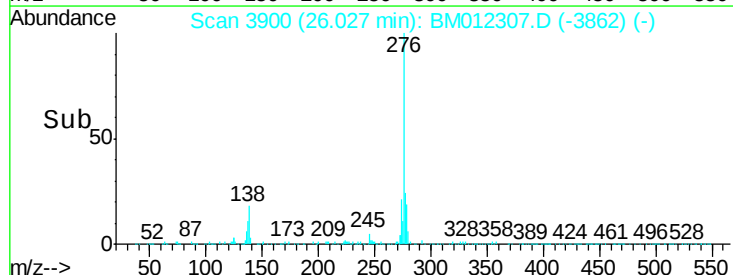
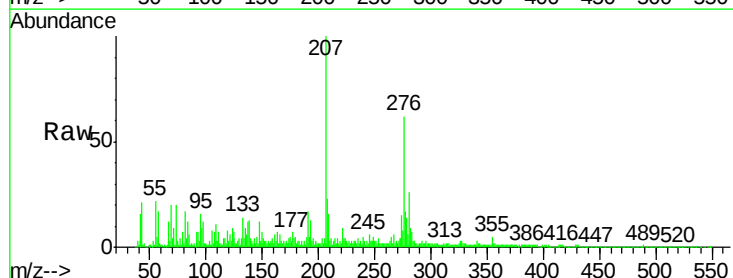
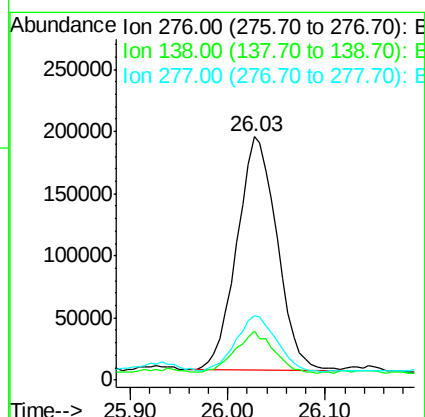
RT: 26.03 min Scan# 3900

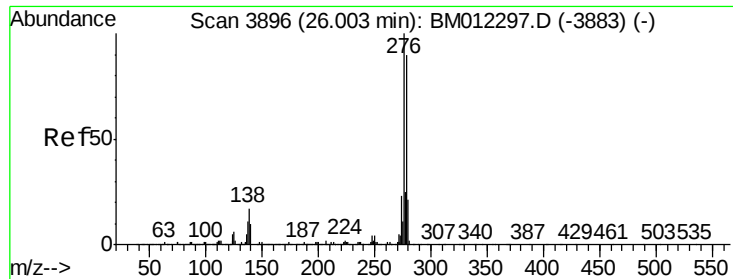
Delta R.T. 0.02 min

Lab File: BM012307.D

Acq: 19 Oct 2017 08:01

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 276   | Resp: | 537353 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 20.1  | 13.2  | 19.8#  |
| 277       | 26.6  | 20.6  | 31.0   |





#90

Dibenzo(a,h)anthracene

Concen: 2.029 ng/ul

RT: 26.02 min Scan# 3899

Delta R.T. 0.02 min

Lab File: BM012307.D

Acq: 19 Oct 2017 08:01

Instrument :

BNA\_M

ClientSampleId :

B-55(3.5-5)-100317

Tgt Ion: 278 Resp: 145887  
Ion Ratio Lower Upper

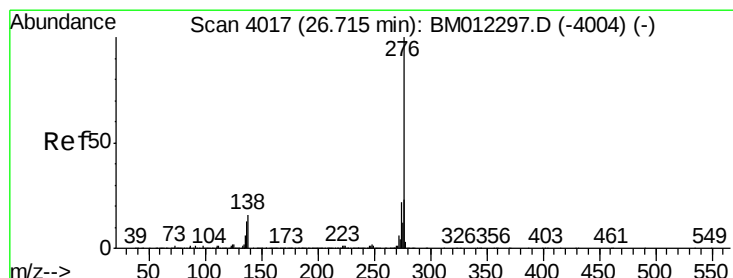
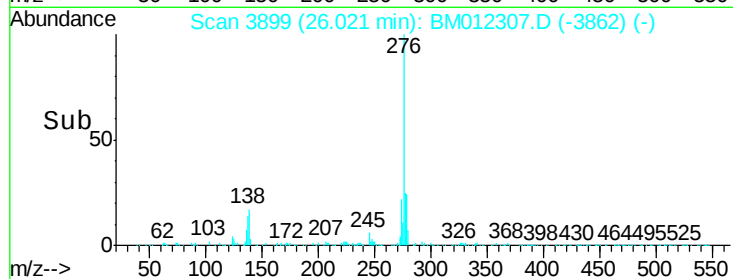
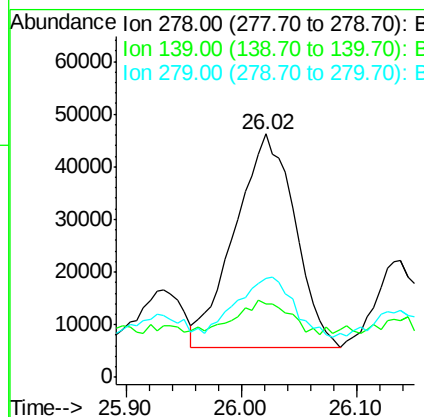
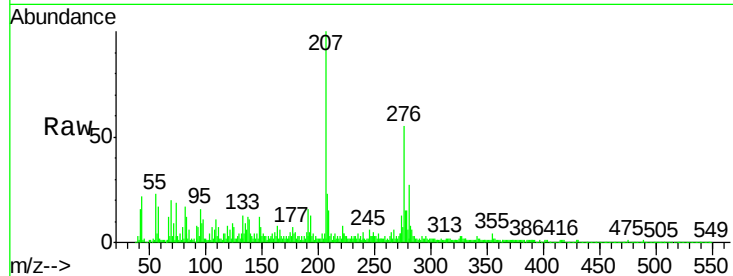
278 100

139 30.1 8.3 12.5#

279 40.9 19.3 28.9#

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#91

Benzo(g,h,i)perylene

Concen: 6.896 ng/ul

RT: 26.76 min Scan# 4024

Delta R.T. 0.03 min

Lab File: BM012307.D

Acq: 19 Oct 2017 08:01

Tgt Ion: 276 Resp: 483133  
Ion Ratio Lower Upper

276 100

138 18.8 10.7 16.1#

277 27.0 19.0 28.4

