

Data Path : Z:\HPCHEM1\BNA M\DATA\BM111716\  
 Data File : BM007949.D  
 Acq On : 17 Nov 2016 20:52  
 Operator : UM/SJ  
 Sample : H5622-19DL 10X  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 A4WL6DL

Manual Integrations  
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Quant Time: Nov 18 02:52:04 2016  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM102016.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Nov 18 02:32:59 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.73  | 152  | 188576   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.50 | 136  | 705595   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.36 | 164  | 439072   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.11 | 188  | 819484   | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.30 | 240  | 983626   | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 23.54 | 264  | 1061979  | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |      |       |       |
|--------------------------------|-------|-----|--------|------|-------|-------|
| 3) 1,4-Dioxane-d8              | 3.28  | 96  | 109    | 0.02 | ng/uL | 0.00  |
| 5) Phenol-d5                   | 6.92  | 99  | 6294   | 0.43 | ng/ul | 0.02  |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.07  | 67  | 19009  | 2.19 | ng/ul | 0.00  |
| 9) 2-Chlorophenol-d4           | 7.27  | 132 | 20578  | 1.82 | ng/ul | 0.00  |
| 13) 4-Methylphenol-d8          | 8.45  | 113 | 12689  | 1.11 | ng/ul | 0.02  |
| 19) Nitrobenzene-d5            | 8.89  | 128 | 14020  | 2.74 | ng/ul | 0.01  |
| 22) 2-Nitrophenol-d4           | 9.60  | 143 | 12247  | 2.23 | ng/ul | 0.00  |
| 26) 2,4-Dichlorophenol-d3      | 10.15 | 165 | 21583  | 2.01 | ng/ul | 0.02  |
| 29) 4-Chloroaniline-d4         | 10.61 | 131 | 76289  | 6.20 | ng/ul | -0.04 |
| 43) Dimethylphthalate-d6       | 13.77 | 166 | 82545  | 2.74 | ng/ul | 0.00  |
| 46) Acenaphthylene-d8          | 14.05 | 160 | 99604  | 2.75 | ng/ul | 0.00  |
| 51) 4-Nitrophenol-d4           | 14.57 | 143 | 4696   | 0.97 | ng/ul | -0.01 |
| 57) Fluorene-d10               | 15.36 | 176 | 80696  | 3.06 | ng/ul | 0.00  |
| 62) 4,6-Dinitro-2-methylphenol | 15.51 | 200 | 9141   | 1.87 | ng/ul | 0.01  |
| 70) Anthracene-d10             | 17.20 | 188 | 114035 | 3.06 | ng/ul | 0.00  |
| 76) Pyrene-d10                 | 19.50 | 212 | 127974 | 3.15 | ng/ul | 0.00  |
| 87) Benzo(a)pyrene-d12         | 23.40 | 264 | 134198 | 2.86 | ng/ul | 0.00  |

## Target Compounds

|                            |       |     |         |       |        | Ovalue |
|----------------------------|-------|-----|---------|-------|--------|--------|
| 28) Naphthalene            | 10.55 | 128 | 443107  | 12.81 | ng/ul  | 98     |
| 34) 2-Methylnaphthalene    | 12.17 | 142 | 875273  | 35.67 | ng/ul  | 99     |
| 49) Acenaphthene           | 14.42 | 153 | 55943   | 2.20  | ng/ul  | 97     |
| 53) Dibenzofuran           | 14.76 | 168 | 44992   | 1.24  | ng/ul# | 62     |
| 58) Fluorene               | 15.41 | 166 | 130121  | 4.47  | ng/ul# | 91     |
| 64) N-Nitrosodiphenylamine | 15.62 | 169 | 90274   | 3.83  | ng/ul# | 54     |
| 69) Phenanthrene           | 17.15 | 178 | 754769  | 17.20 | ng/ul  | 96     |
| 71) Anthracene             | 17.24 | 178 | 156217m | 3.50  | ng/ul  |        |
| 74) Fluoranthene           | 19.17 | 202 | 117803  | 2.29  | ng/ul# | 88     |
| 77) Pyrene                 | 19.53 | 202 | 687479  | 13.48 | ng/ul  | 99     |
| 82) Chrysene               | 21.34 | 228 | 132590  | 2.61  | ng/ul# | 59     |
| 88) Benzo(a)pyrene         | 23.45 | 252 | 74433   | 1.29  | ng/ul# | 59     |
| 91) Benzo(g,h,i)perylene   | 26.50 | 276 | 66420   | 1.15  | ng/ul# | 75     |

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

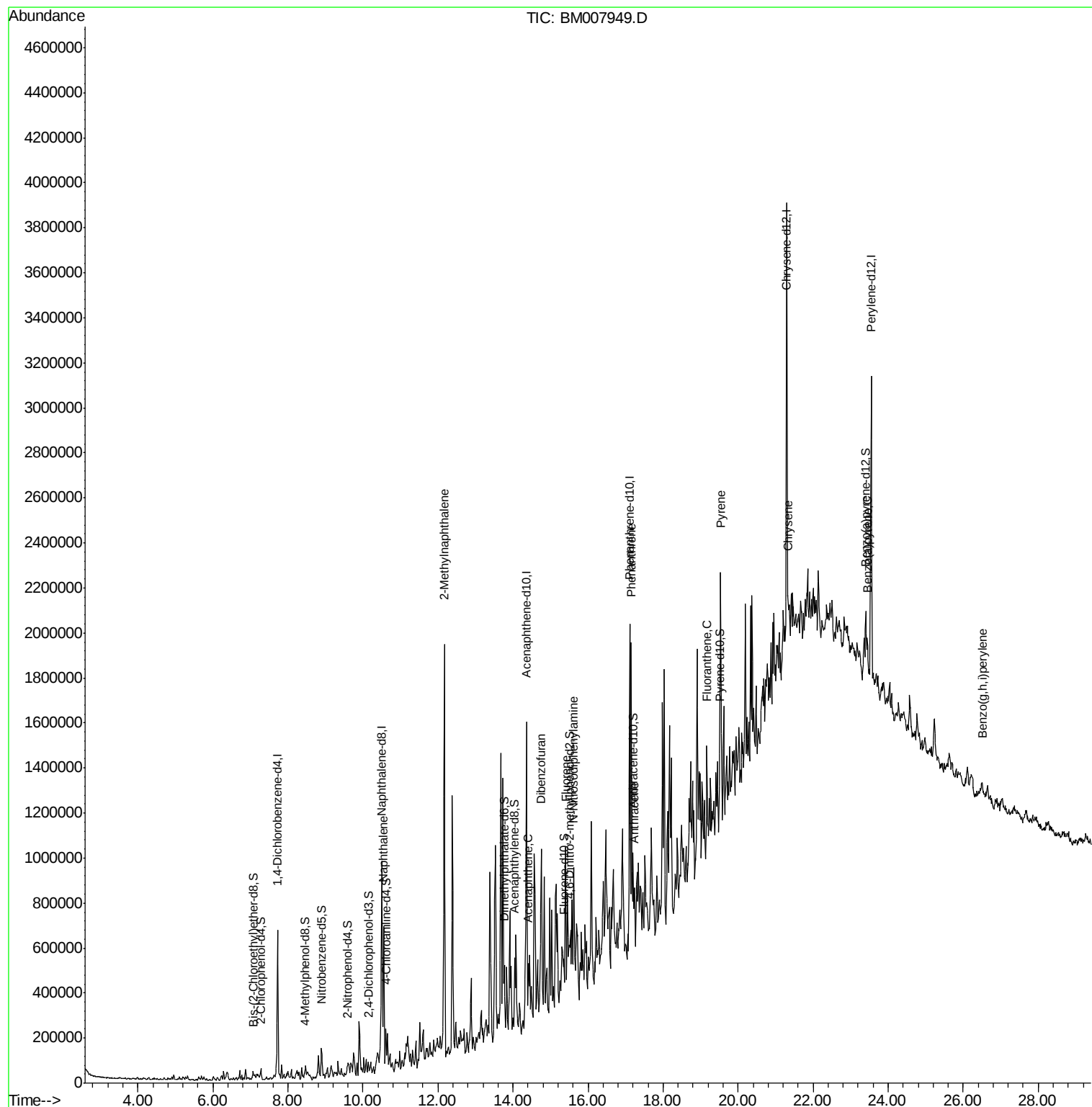
Data Path : Z:\HPCHEM1\BNA M\DATA\BM111716\  
Data File : BM007949.D  
Acq On : 17 Nov 2016 20:52  
Operator : UM/SJ  
Sample : H5622-19DL 10X  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

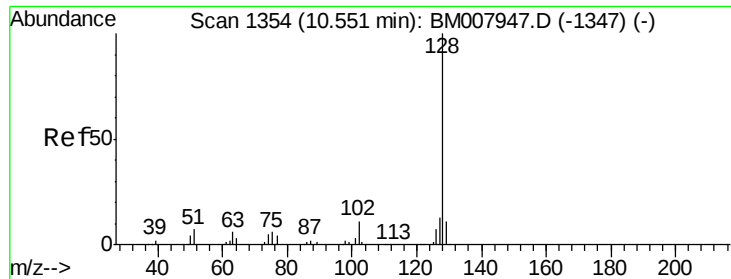
Instrument :  
BNA\_M  
ClientSampleId :  
A4WL6DL

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Quant Time: Nov 18 02:52:04 2016  
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM102016.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Fri Nov 18 02:32:59 2016  
Response via : Initial Calibration





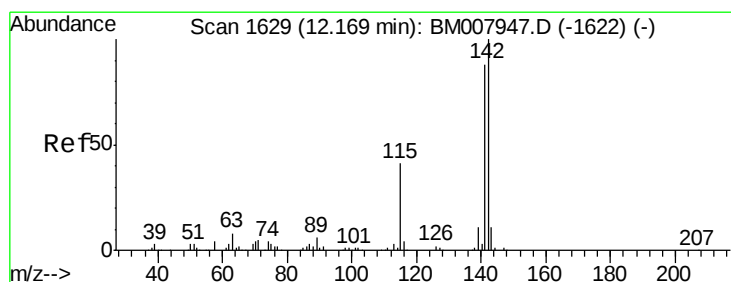
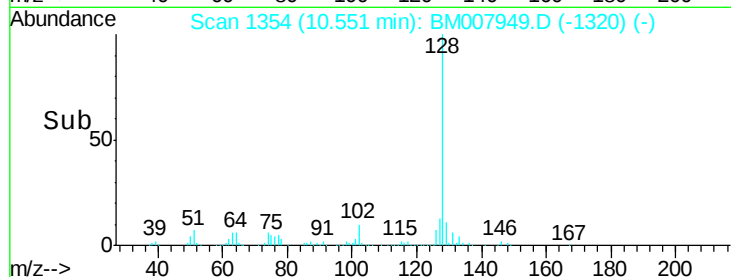
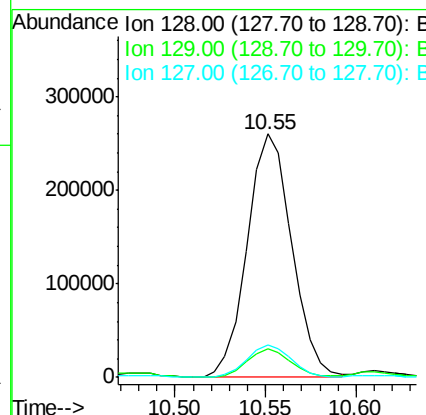
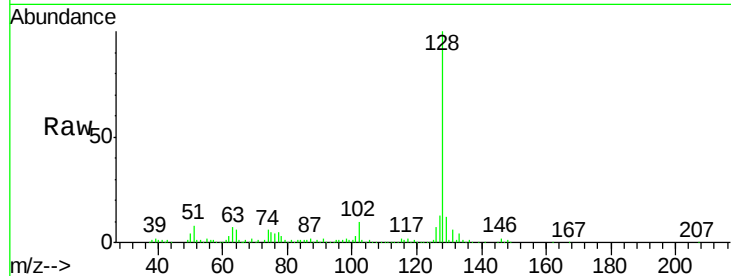
#28  
Naphthalene  
Concen: 12.81 ng/ul  
RT: 10.55 min Scan# 1354  
Delta R.T. -0.00 min  
Lab File: BM007949.D  
Acq: 17 Nov 2016 20:52

Instrument :  
BNA\_M  
ClientSampleId :  
A4WL6DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 11.8  | 8.6   | 12.8  |
| 127     | 13.4  | 10.6  | 15.8  |

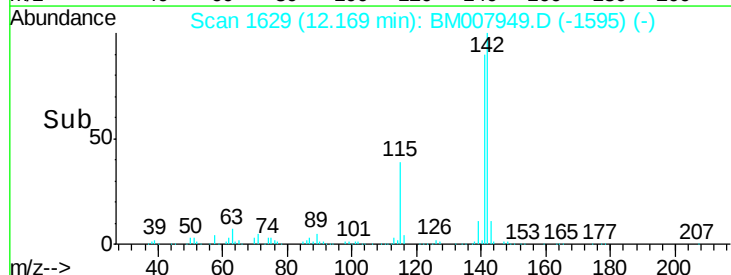
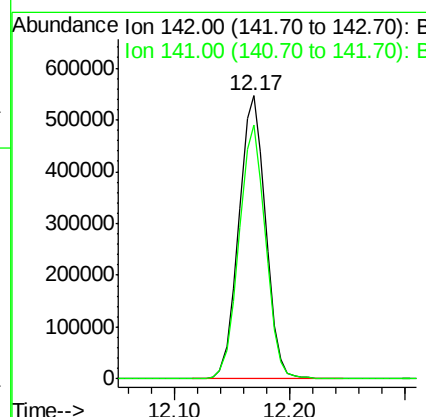
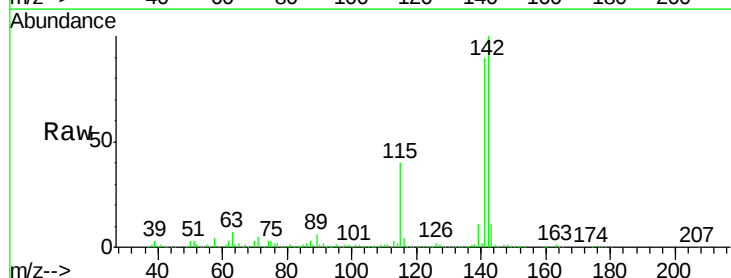
Manual Integrations  
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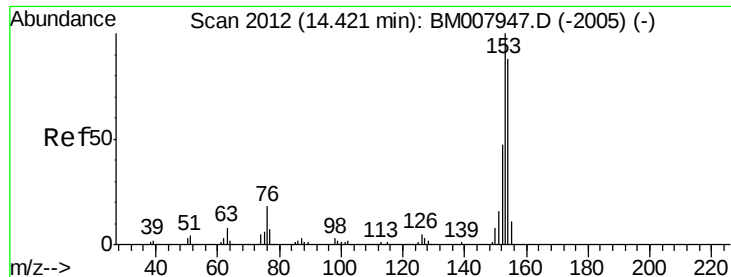
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#34  
2-Methylnaphthalene  
Concen: 35.67 ng/ul  
RT: 12.17 min Scan# 1629  
Delta R.T. -0.00 min  
Lab File: BM007949.D  
Acq: 17 Nov 2016 20:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 89.6  | 71.3  | 106.9 |





#49

Acenaphthene

Concen: 2.20 ng/ul

RT: 14.42 min Scan# 2012

Delta R.T. -0.00 min

Lab File: BM007949.D

Acq: 17 Nov 2016 20:52

Instrument :

BNA\_M

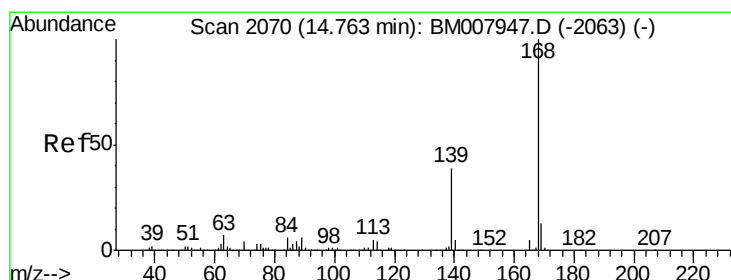
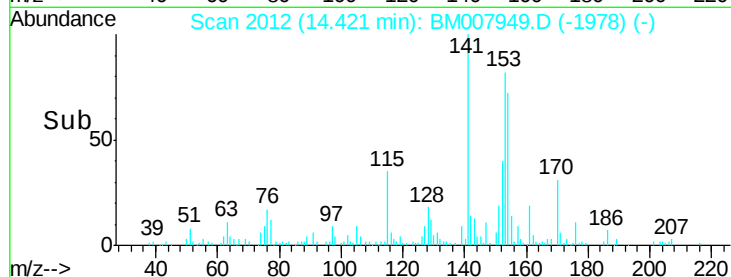
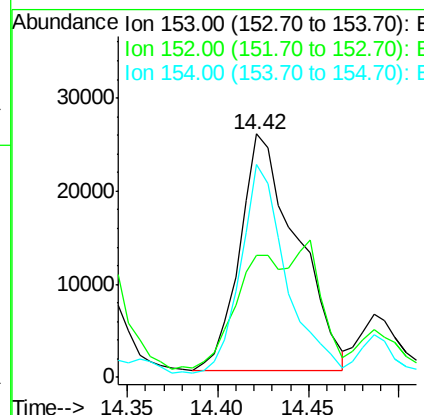
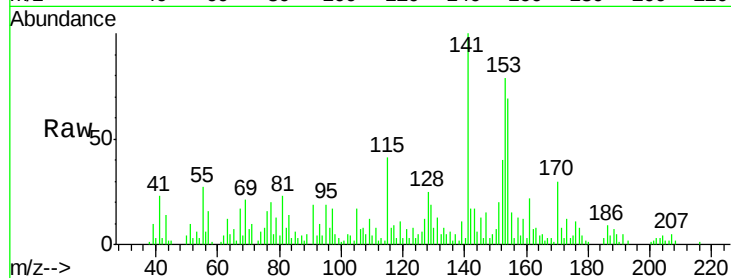
ClientSampleId :

A4WL6DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 153     | 100   |       |       |
| 152     | 50.1  | 37.8  | 56.6  |
| 154     | 87.5  | 71.4  | 107.0 |

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#53

Dibenzofuran

Concen: 1.24 ng/ul

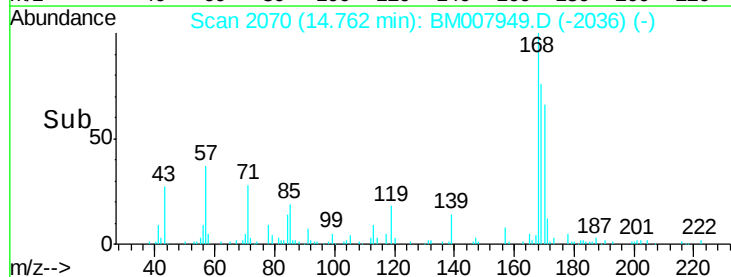
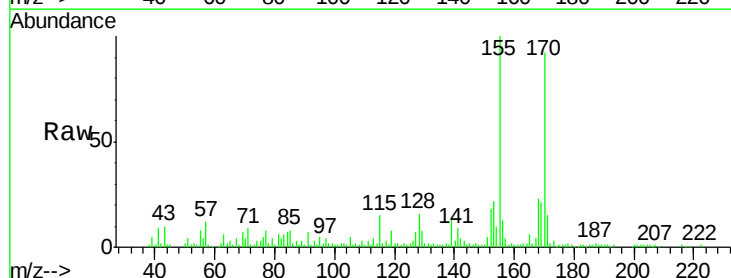
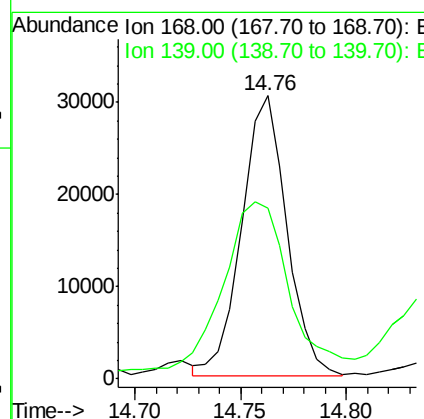
RT: 14.76 min Scan# 2070

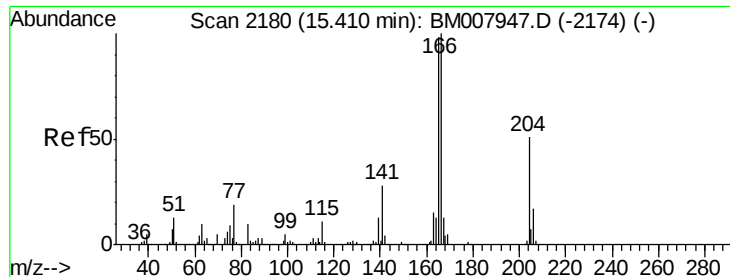
Delta R.T. -0.00 min

Lab File: BM007949.D

Acq: 17 Nov 2016 20:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 168     | 100   |       |       |
| 139     | 60.2  | 30.1  | 45.1  |





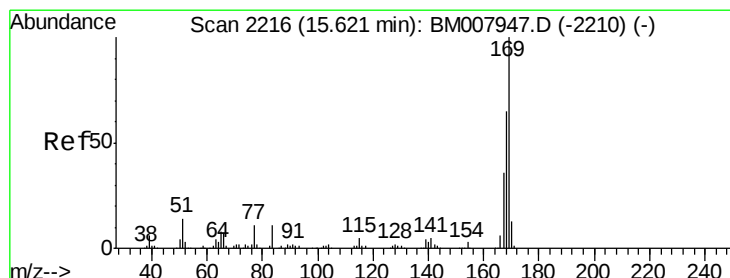
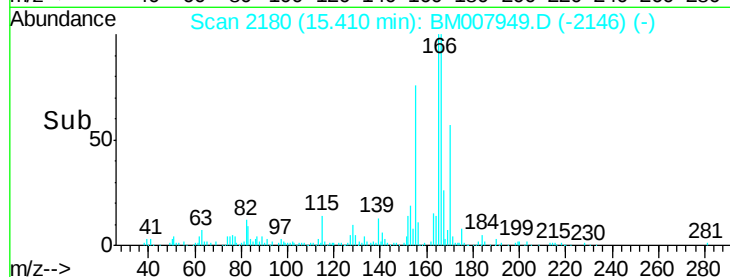
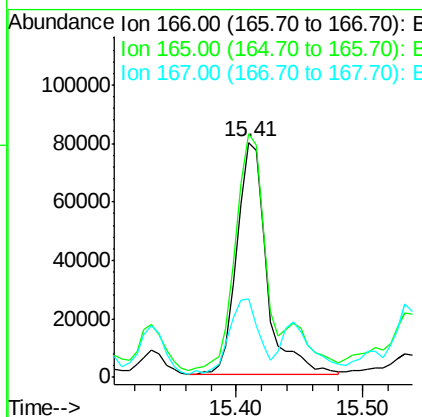
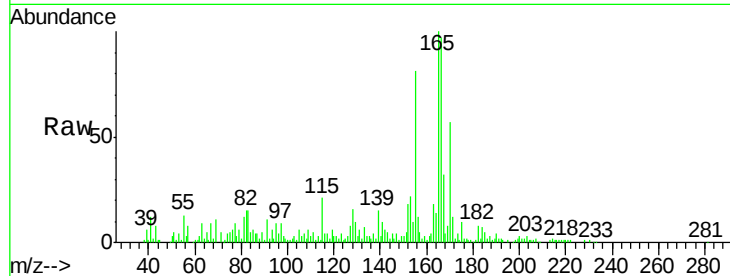
#58  
 Fluorene  
 Concen: 4.47 ng/ul  
 RT: 15.41 min Scan# 2180  
 Delta R.T. -0.00 min  
 Lab File: BM007949.D  
 Acq: 17 Nov 2016 20:52

Instrument :  
 BNA\_M  
 ClientSampleId :  
 A4WL6DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 103.6 | 79.9  | 119.9 |
| 167     | 33.3  | 10.5  | 15.7  |

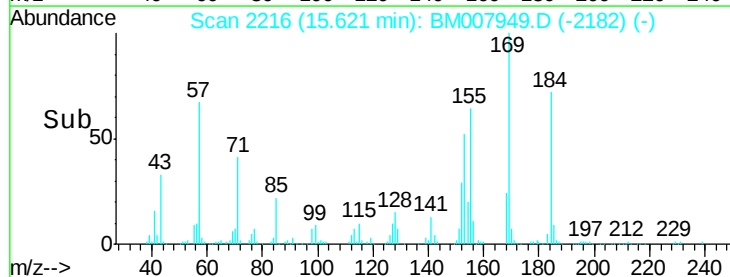
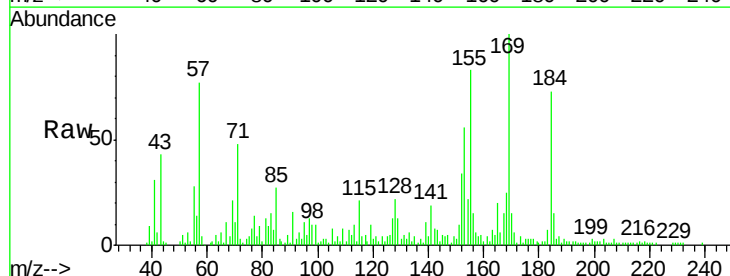
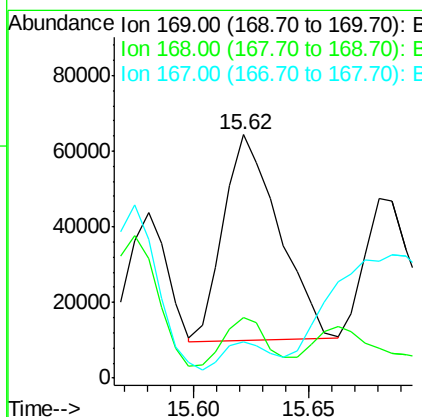
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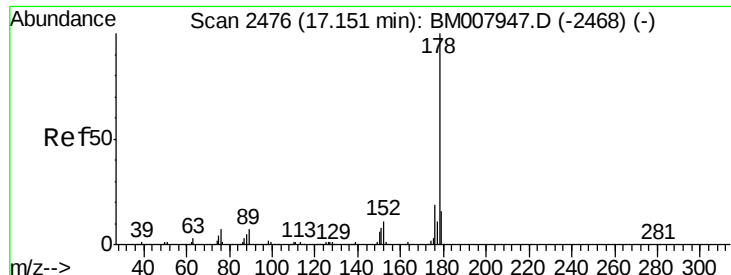
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#64  
 N-Nitrosodiphenylamine  
 Concen: 3.83 ng/ul  
 RT: 15.62 min Scan# 2216  
 Delta R.T. -0.00 min  
 Lab File: BM007949.D  
 Acq: 17 Nov 2016 20:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 169     | 100   |       |       |
| 168     | 25.1  | 52.6  | 79.0  |
| 167     | 14.8  | 28.6  | 43.0  |





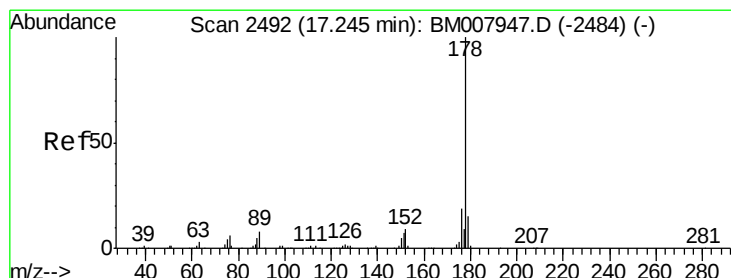
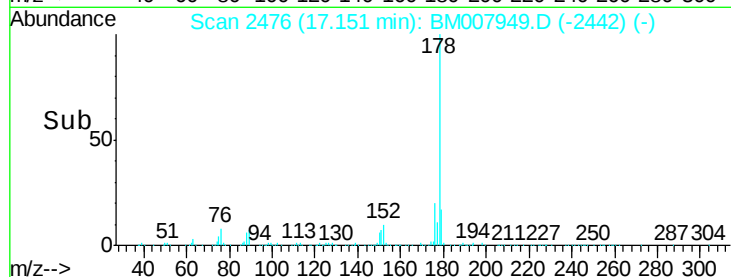
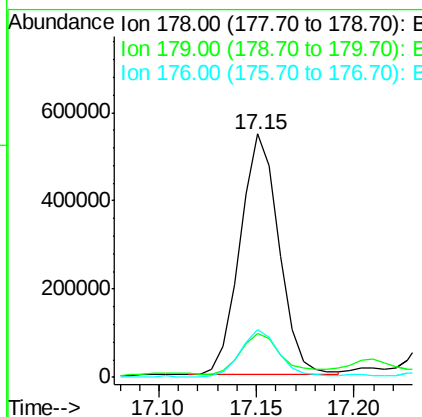
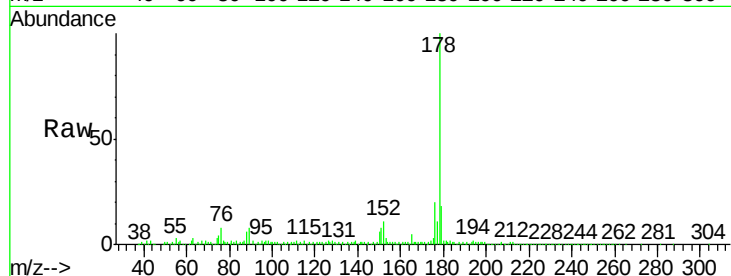
#69  
Phenanthrene  
Concen: 17.20 ng/ul  
RT: 17.15 min Scan# 2476  
Delta R.T. -0.00 min  
Lab File: BM007949.D  
Acq: 17 Nov 2016 20:52

Instrument :  
BNA\_M  
ClientSampleId :  
A4WL6DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 18.0  | 12.2  | 18.2  |
| 176     | 19.8  | 15.1  | 22.7  |

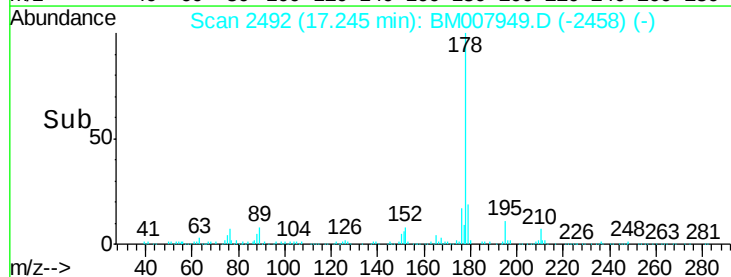
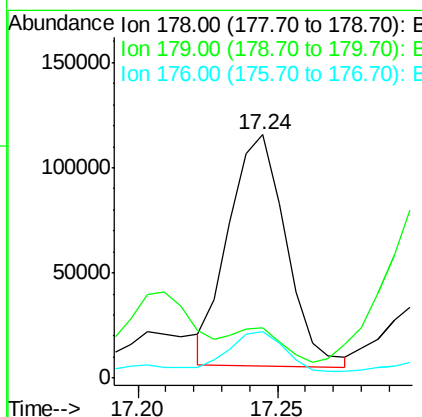
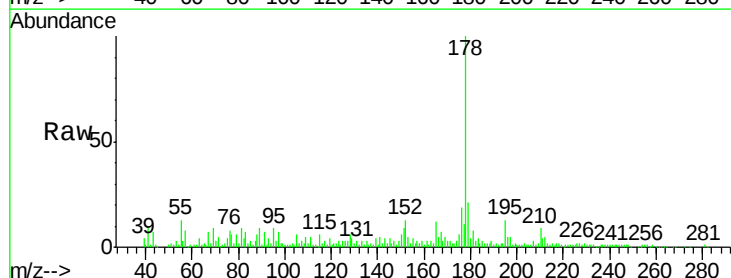
Manual Integrations  
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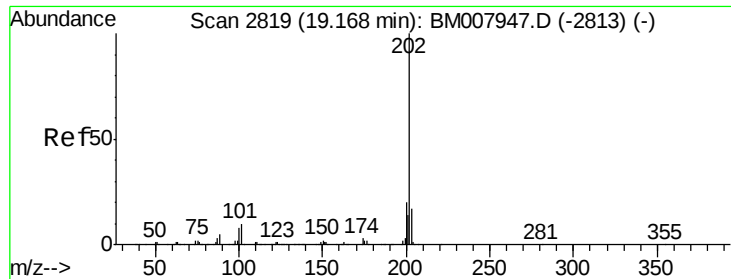
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#71  
Anthracene  
Concen: 3.50 ng/ul m  
RT: 17.24 min Scan# 2492  
Delta R.T. -0.00 min  
Lab File: BM007949.D  
Acq: 17 Nov 2016 20:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 20.9  | 12.1  | 18.1# |
| 176     | 18.9  | 14.5  | 21.7  |





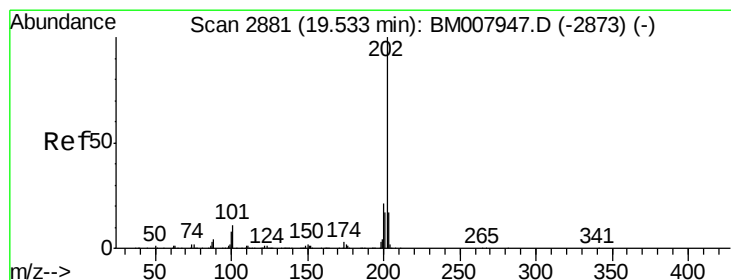
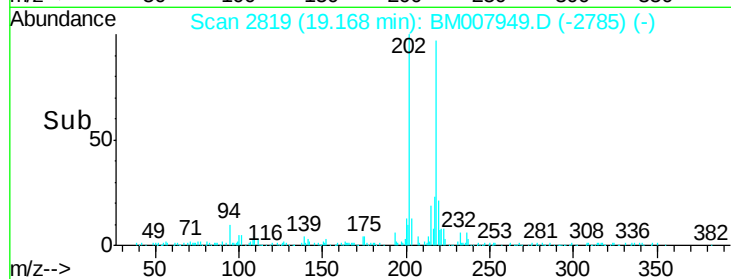
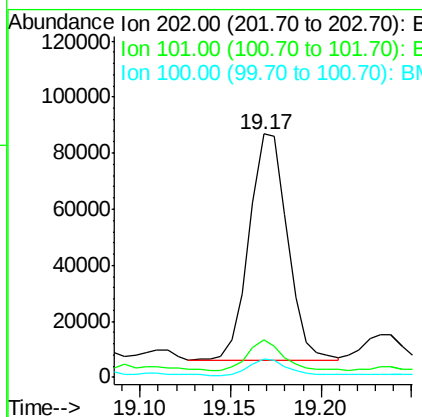
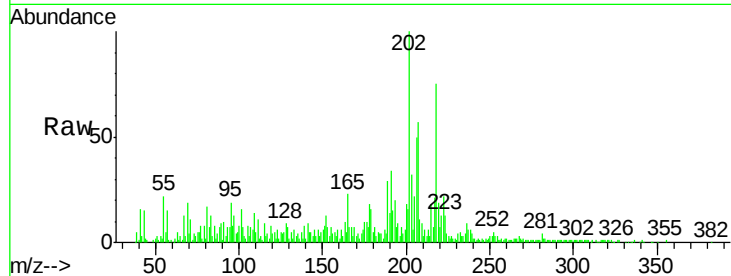
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Fluoranthene  
Concen: 2.29 ng/ul  
RT: 19.17 min Scan# 2819  
Delta R.T. -0.00 min  
Lab File: BM007949.D  
Acq: 17 Nov 2016 20:52

Instrument :  
BNA\_M  
ClientSampleId :  
A4WL6DL

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 202     | 100   | 117803 |       |       |
| 101     | 15.6  | 6.9    | 10.3  |       |
| 100     | 7.5   | 5.4    | 8.0   |       |

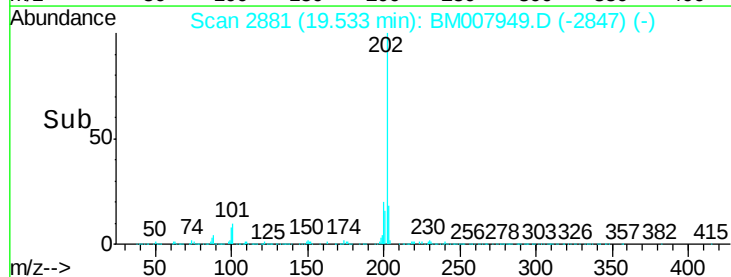
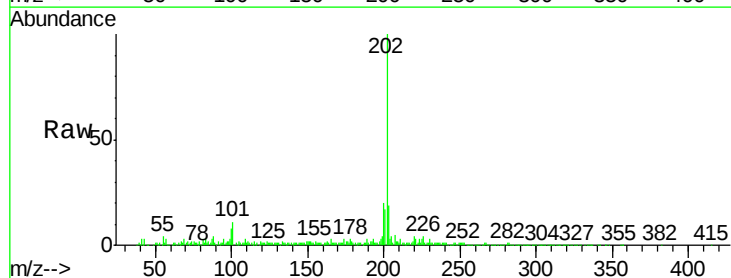
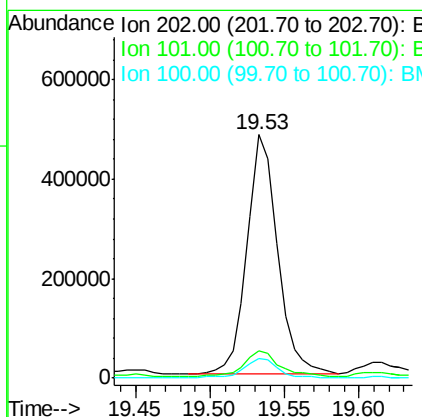
Manual Integrations  
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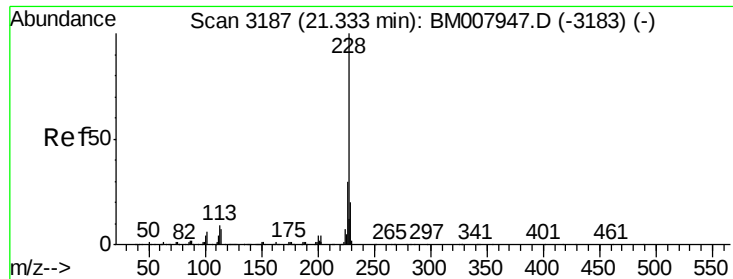
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#77  
Pyrene  
Concen: 13.48 ng/ul  
RT: 19.53 min Scan# 2881  
Delta R.T. -0.00 min  
Lab File: BM007949.D  
Acq: 17 Nov 2016 20:52

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 202     | 100   | 687479 |       |       |
| 101     | 11.0  | 8.4    | 12.6  |       |
| 100     | 8.3   | 6.9    | 10.3  |       |





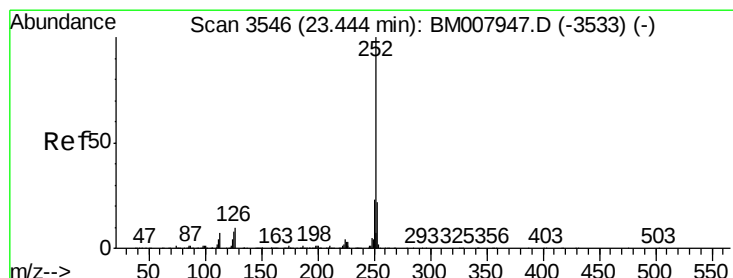
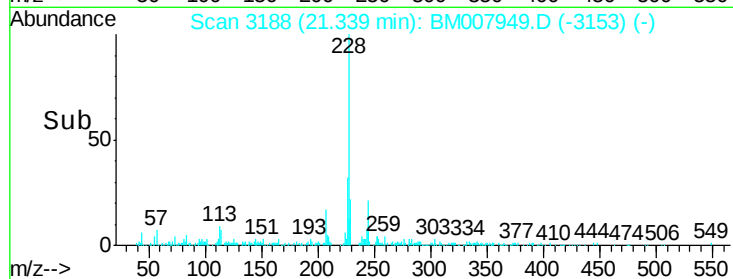
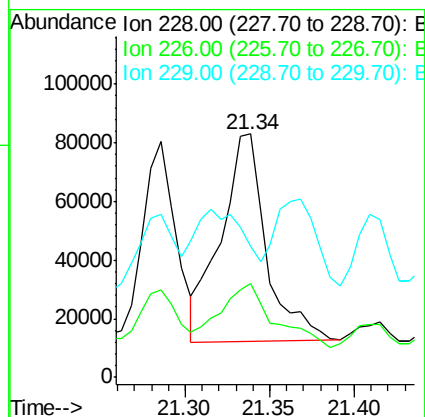
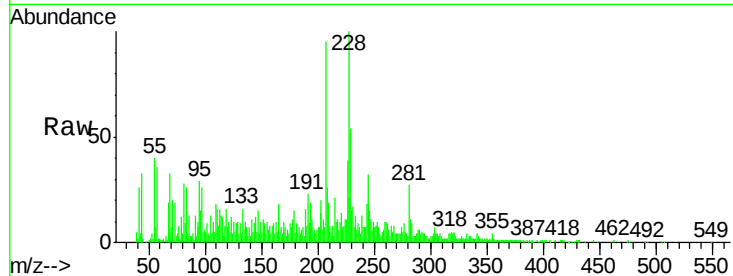
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Chrysene  
Concen: 2.61 ng/ul  
RT: 21.34 min Scan# 3188  
Delta R.T. 0.01 min  
Lab File: BM007949.D  
Acq: 17 Nov 2016 20:52

Instrument :  
BNA\_M  
ClientSampleId :  
A4WL6DL

| Tot Ion | Ion  | Ratio | Resp  | Lower | Upper |
|---------|------|-------|-------|-------|-------|
| 228     | 100  |       |       |       |       |
| 226     | 38.6 | 23.4  | 35.2# |       |       |
| 229     | 53.8 | 15.5  | 23.3# |       |       |

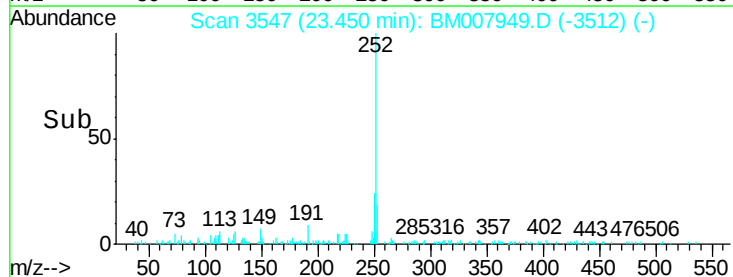
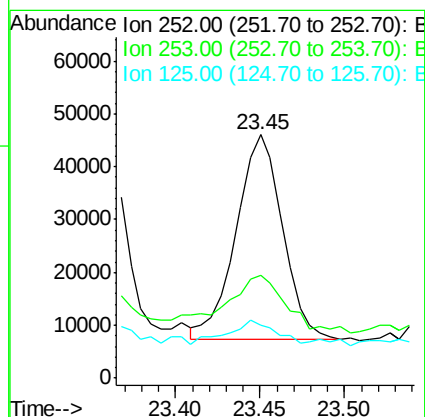
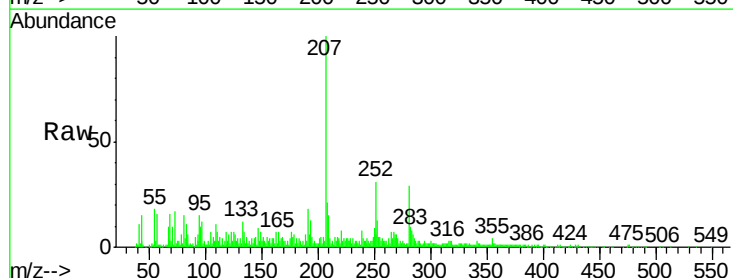
Manual Integrations  
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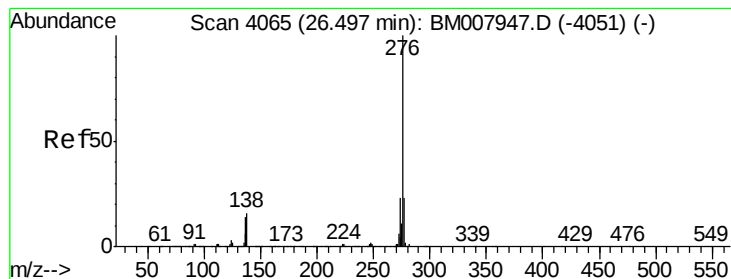
umangi  
11/18/2016 5:23:51 PM



#88  
Benzo(a)pyrene  
Concen: 1.29 ng/ul  
RT: 23.45 min Scan# 3547  
Delta R.T. 0.01 min  
Lab File: BM007949.D  
Acq: 17 Nov 2016 20:52

| Tgt Ion | Ion  | Ratio | Resp  | Lower | Upper |
|---------|------|-------|-------|-------|-------|
| 252     | 100  |       |       |       |       |
| 253     | 42.2 | 17.7  | 26.5# |       |       |
| 125     | 21.8 | 6.6   | 9.8#  |       |       |





#91

Benzo(a,h,i)perylene

Concen: 1.15 ng/ul

RT: 26.50 min Scan# 4066

Delta R.T. 0.01 min

Lab File: BM007949.D

Acq: 17 Nov 2016 20:52

Instrument :

BNA\_M

ClientSampleId :

A4WL6DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 276   | Resp: | 66420 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 23.8  | 13.5  | 20.3# |
| 277       | 39.8  | 19.3  | 28.9# |

Manual Integrations  
APPROVED

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11/18/2016 5:23:51 PM

