

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM051819\  
 Data File : BM020405.D  
 Acq On : 18 May 2019 17:13  
 Operator : JU/SJ  
 Sample : K2604-21MEDL 10X  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 GAJ92MEDL

Manual Integrations  
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 5/20/2019 2:48:08 PM

Quant Time: May 20 08:21:25 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM051619MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Sat May 18 05:13:49 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.73  | 152  | 71523    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.52 | 136  | 271419   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.38 | 164  | 168723   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.13 | 188  | 422095   | 20.00 | ng/ul | 0.00     |
| 77) Chrysene-d12          | 21.32 | 240  | 480362   | 20.00 | ng/ul | 0.00     |
| 85) Perylene-d12          | 23.59 | 264  | 544681   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |       |      |       |      |
|--------------------------------|-------|-----|-------|------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.24  | 96  | 467   | 0.24 | ng/uL | 0.02 |
| 5) Phenol-d5                   | 6.90  | 99  | 6125m | 1.07 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.08  | 67  | 4090  | 1.13 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.26  | 132 | 4623  | 1.10 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.45  | 113 | 2409  | 0.58 | ng/ul | 0.02 |
| 19) Nitrobenzene-d5            | 8.91  | 128 | 1055  | 0.60 | ng/ul | 0.01 |
| 22) 2-Nitrophenol-d4           | 9.63  | 143 | 1222  | 0.63 | ng/ul | 0.01 |
| 26) 2,4-Dichlorophenol-d3      | 10.17 | 165 | 3205m | 0.78 | ng/ul | 0.02 |
| 29) 4-Chloroaniline-d4         | 10.70 | 131 | 2275m | 0.53 | ng/ul | 0.03 |
| 43) Dimethylphthalate-d6       | 13.79 | 166 | 19885 | 1.64 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.07 | 160 | 21761 | 1.43 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 0.00  | 143 | 0     | 0.00 | ng/ul |      |
| 57) Fluorene-d10               | 15.37 | 176 | 18433 | 1.71 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.51 | 200 | 507   | 0.21 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.23 | 188 | 30312 | 1.67 | ng/ul | 0.00 |
| 78) Pyrene-d10                 | 19.53 | 212 | 37040 | 1.60 | ng/ul | 0.00 |
| 89) Benzo(a)pyrene-d12         | 23.44 | 264 | 41592 | 1.68 | ng/ul | 0.00 |

## Target Compounds

|                            |       |     |         |        | Ovalue |     |
|----------------------------|-------|-----|---------|--------|--------|-----|
| 28) Naphthalene            | 10.57 | 128 | 208771  | 16.742 | ng/ul  | 99  |
| 34) 2-Methylnaphthalene    | 12.19 | 142 | 183211  | 20.292 | ng/ul  | 94  |
| 40) 1,1'-Biphenyl          | 13.21 | 154 | 41129   | 3.405  | ng/ul  | 99  |
| 47) Acenaphthylene         | 14.10 | 152 | 213868  | 14.936 | ng/ul  | 99  |
| 49) Acenaphthene           | 14.44 | 153 | 14969   | 1.521  | ng/ul  | 94  |
| 53) Dibenzofuran           | 14.78 | 168 | 17927m  | 1.203  | ng/ul  |     |
| 58) Fluorene               | 15.44 | 166 | 13225   | 1.107  | ng/ul# | 61  |
| 69) Phenanthrene           | 17.17 | 178 | 738906  | 36.740 | ng/ul  | 99  |
| 71) Anthracene             | 17.26 | 178 | 144182  | 7.048  | ng/ul  | 99  |
| 76) Fluoranthene           | 19.19 | 202 | 320148  | 12.602 | ng/ul  | 98  |
| 79) Pyrene                 | 19.56 | 202 | 465096  | 16.131 | ng/ul  | 99  |
| 82) Benzo(a)anthracene     | 21.30 | 228 | 177673m | 6.145  | ng/ul  |     |
| 84) Chrysene               | 21.36 | 228 | 145720  | 5.274  | ng/ul  | 96  |
| 87) Benzo(b)fluoranthene   | 22.90 | 252 | 111734m | 3.594  | ng/ul  |     |
| 88) Benzo(k)fluoranthene   | 22.93 | 252 | 38694m  | 1.267  | ng/ul  |     |
| 90) Benzo(a)pyrene         | 23.49 | 252 | 129103  | 4.413  | ng/ul  | 99  |
| 91) Indeno(1,2,3-cd)pyrene | 25.87 | 276 | 51653   | 1.550  | ng/ul  | 100 |
| 93) Benzo(g,h,i)perylene   | 26.59 | 276 | 52822   | 1.914  | ng/ul  | 96  |

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

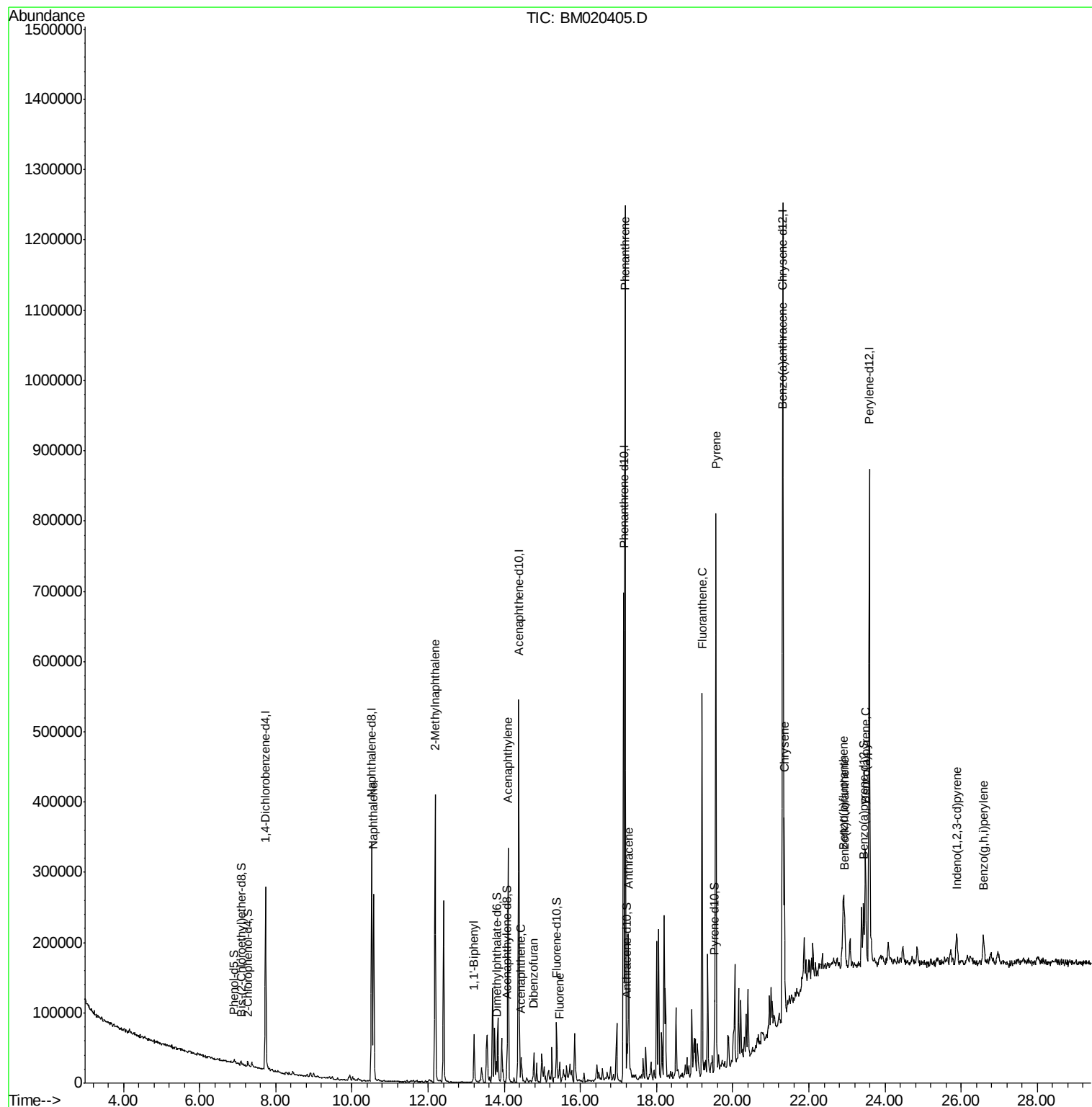
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM051819\  
Data File : BM020405.D  
Acq On : 18 May 2019 17:13  
Operator : JU/SJ  
Sample : K2604-21MEDL 10X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

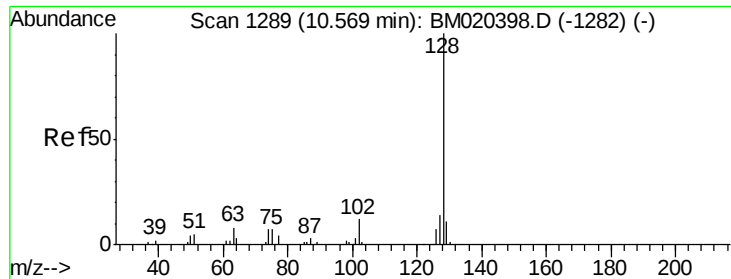
Instrument :  
BNA\_M  
ClientSampleId :  
GAJ92MEDL

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Quant Time: May 20 08:21:25 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM051619MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Sat May 18 05:13:49 2019  
Response via : Initial Calibration





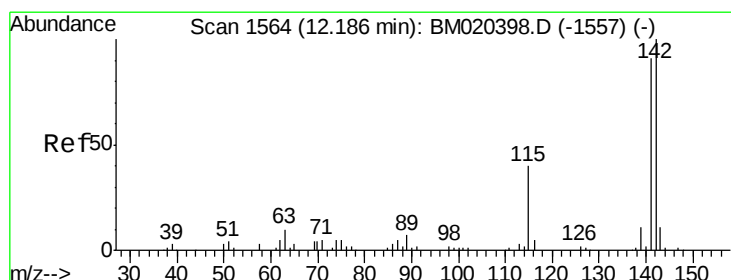
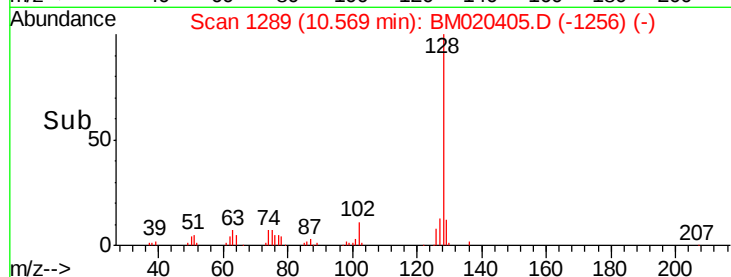
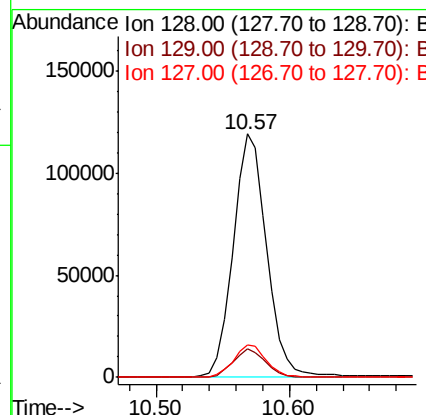
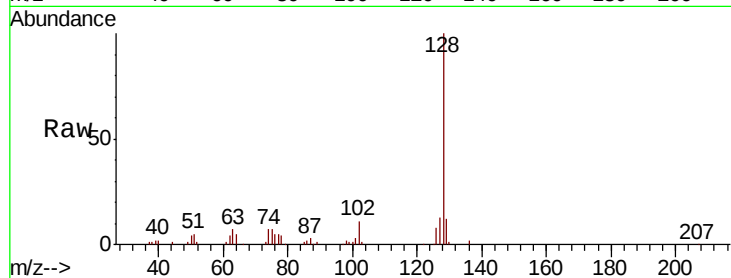
#28  
Naphthalene  
Concen: 16.742 ng/ul  
RT: 10.57 min Scan# 1289  
Delta R.T. -0.01 min  
Lab File: BM020405.D  
Acq: 18 May 2019 17:13

Instrument :  
BNA\_M  
ClientSampleId :  
GAJ92MEDL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 11.7  | 8.6   | 13.0  |
| 127     | 13.3  | 10.6  | 15.8  |

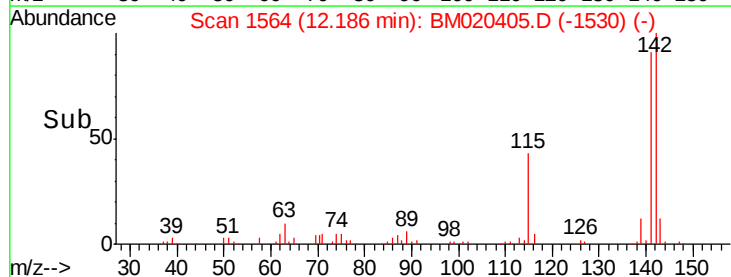
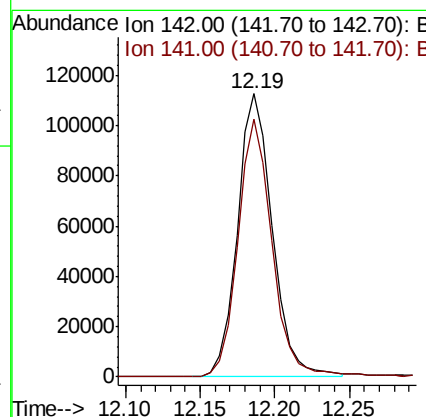
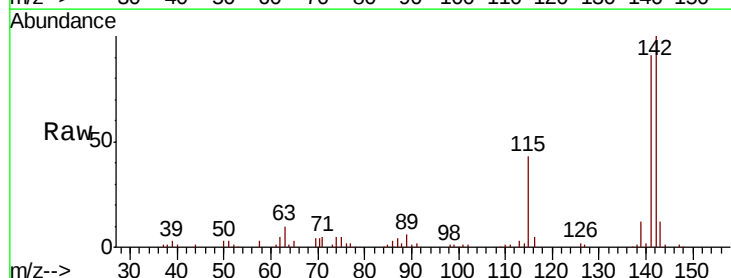
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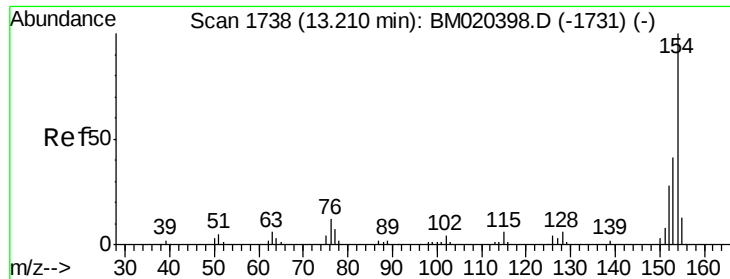
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#34  
2-Methylnaphthalene  
Concen: 20.292 ng/ul  
RT: 12.19 min Scan# 1564  
Delta R.T. -0.00 min  
Lab File: BM020405.D  
Acq: 18 May 2019 17:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 91.3  | 68.6  | 102.8 |





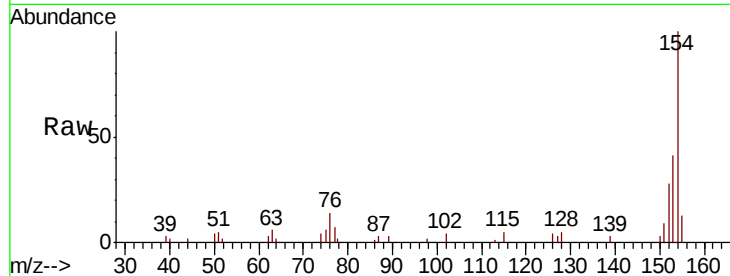
#40  
1,1'-Biphenyl  
Concen: 3.405 ng/ul  
RT: 13.21 min Scan# 1738  
Delta R.T. -0.00 min  
Lab File: BM020405.D  
Acq: 18 May 2019 17:13

Instrument :  
BNA\_M  
ClientSampleId :  
GAJ92MEDL

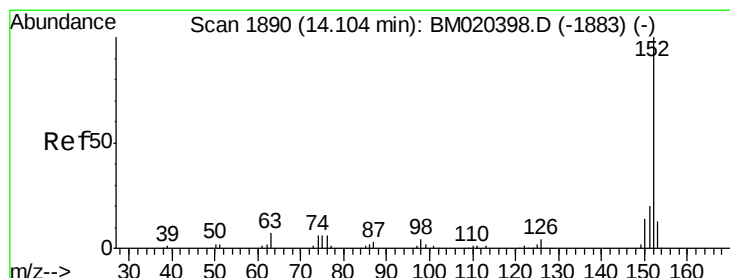
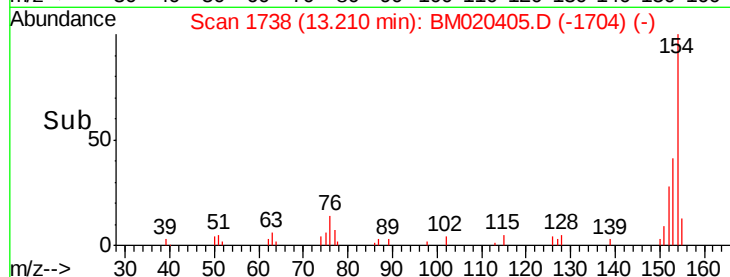
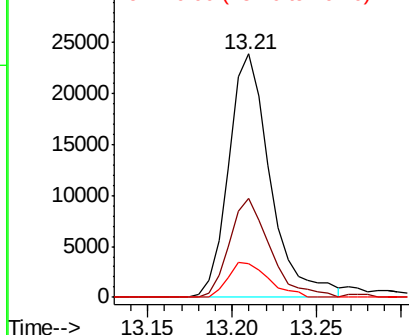
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 40.8  | 32.2  | 48.4  |
| 76      | 14.1  | 11.0  | 16.4  |

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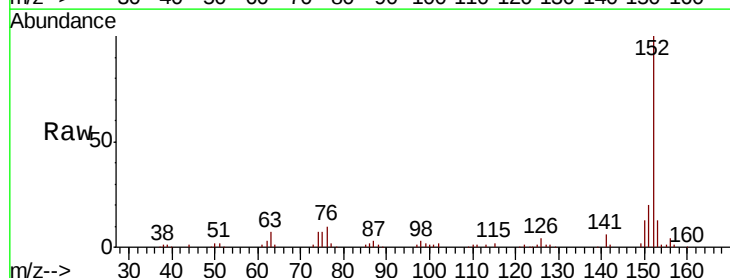


Abundance Ion 154.00 (153.70 to 154.70): E  
Ion 153.00 (152.70 to 153.70): E  
Ion 76.00 (75.70 to 76.70): BM

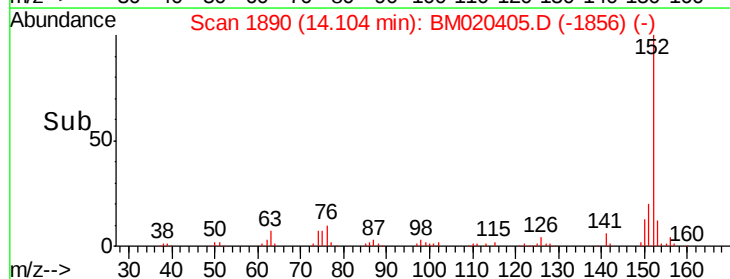
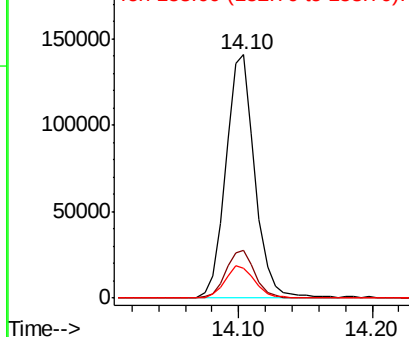


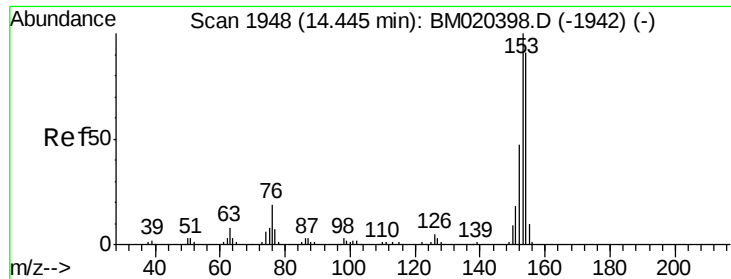
#47  
Acenaphthylene  
Concen: 14.936 ng/ul  
RT: 14.10 min Scan# 1890  
Delta R.T. -0.00 min  
Lab File: BM020405.D  
Acq: 18 May 2019 17:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 19.8  | 15.4  | 23.0  |
| 153     | 12.5  | 10.3  | 15.5  |



Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 151.00 (150.70 to 151.70): E  
Ion 153.00 (152.70 to 153.70): E





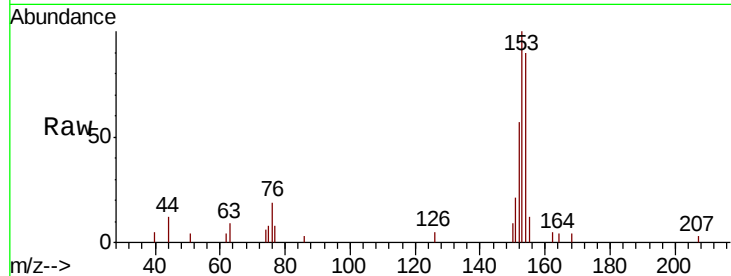
#49  
Acenaphthene  
Concen: 1.521 ng/ul  
RT: 14.44 min Scan# 1948  
Delta R.T. -0.00 min  
Lab File: BM020405.D  
Acq: 18 May 2019 17:13

Instrument :  
BNA\_M  
ClientSampleId :  
GAJ92MEDL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 153     | 100   |       |       |
| 152     | 56.7  | 37.9  | 56.9  |
| 154     | 90.4  | 71.2  | 106.8 |

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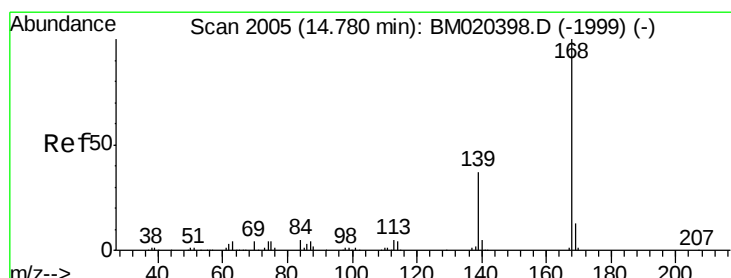
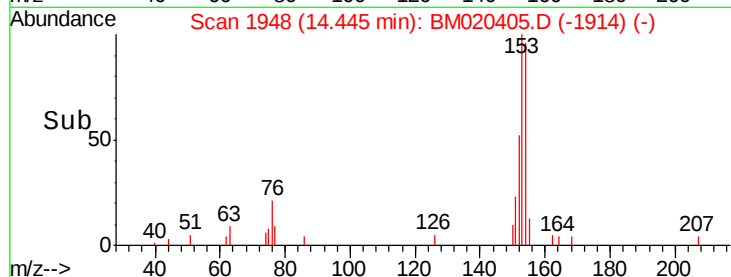
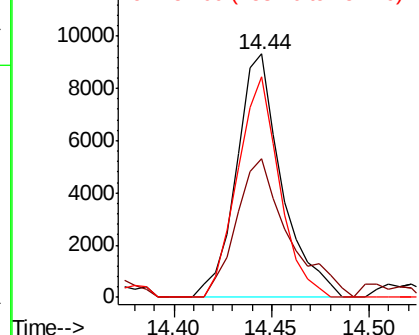


Abundance

Ion 153.00 (152.70 to 153.70): E

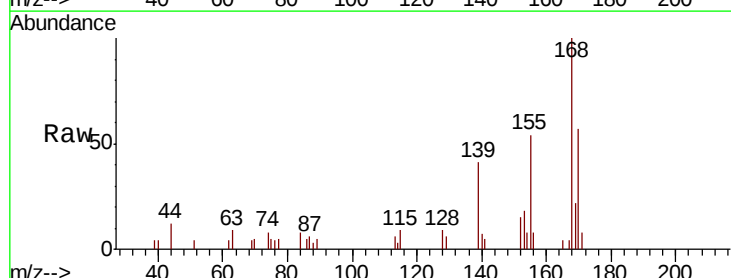
Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E



#53  
Dibenzofuran  
Concen: 1.203 ng/ul m  
RT: 14.78 min Scan# 2005  
Delta R.T. -0.00 min  
Lab File: BM020405.D  
Acq: 18 May 2019 17:13

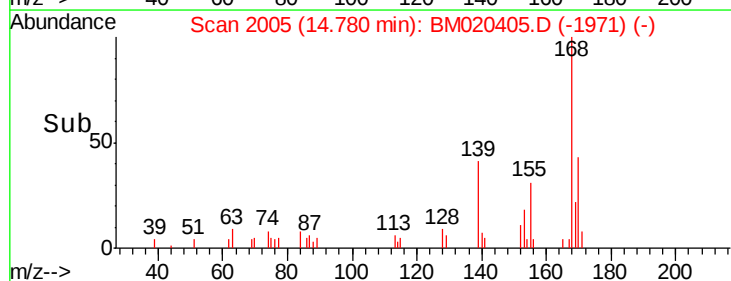
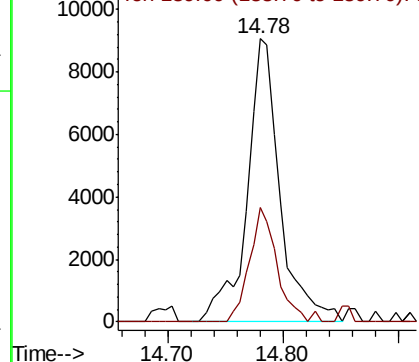
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 168     | 100   |       |       |
| 139     | 40.5  | 30.1  | 45.1  |

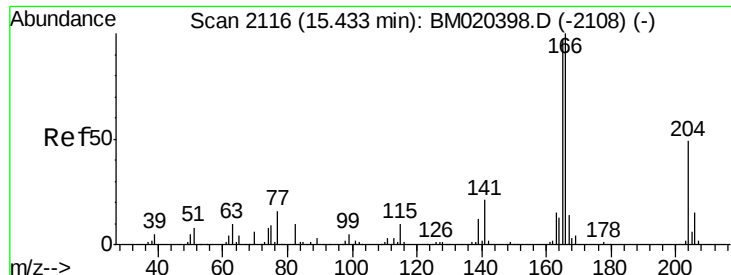


Abundance

Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E





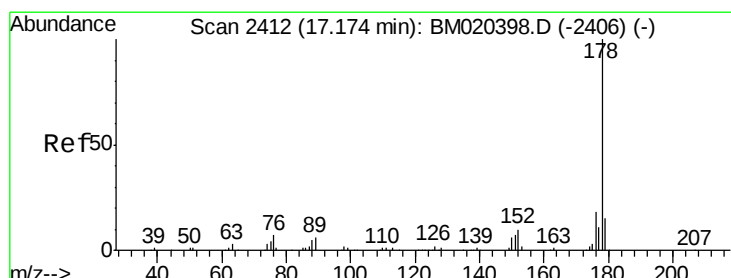
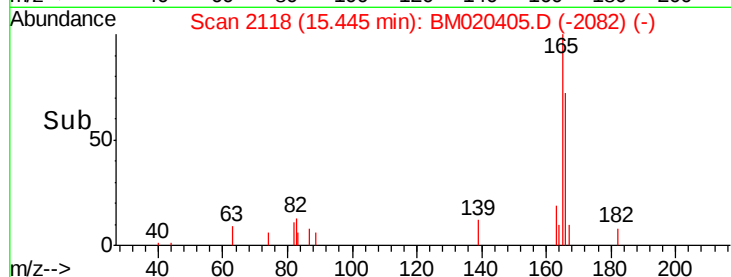
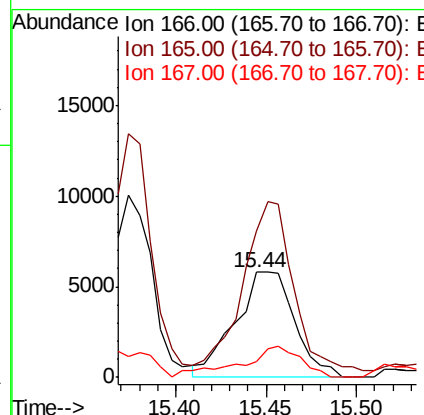
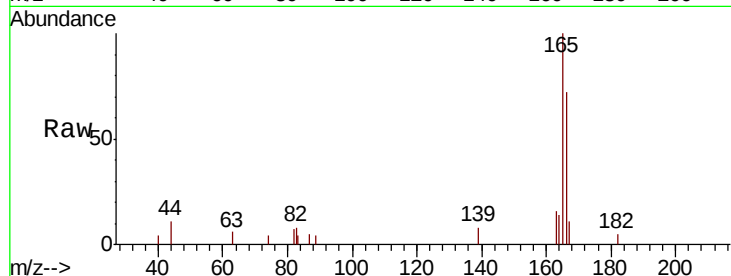
#58  
 Fluorene  
 Concen: 1.107 ng/ul  
 RT: 15.44 min Scan# 2118  
 Delta R.T. 0.01 min  
 Lab File: BM020405.D  
 Acq: 18 May 2019 17:13

Instrument :  
 BNA\_M  
 ClientSampleId :  
 GAJ92MEDL

| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 166     | 100   |       |        |
| 165     | 139.3 | 77.1  | 115.7# |
| 167     | 15.0  | 11.1  | 16.7   |

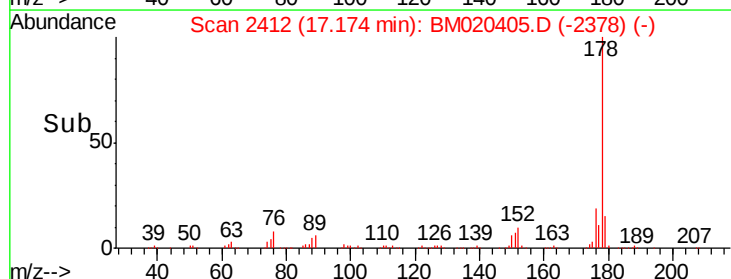
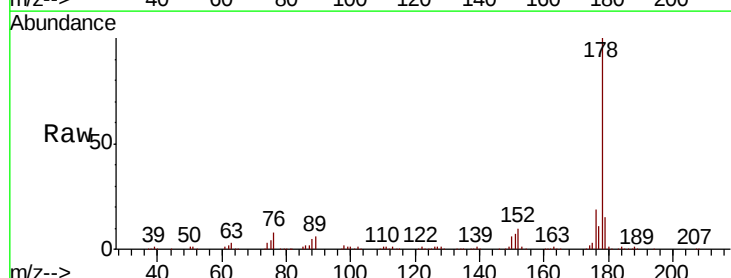
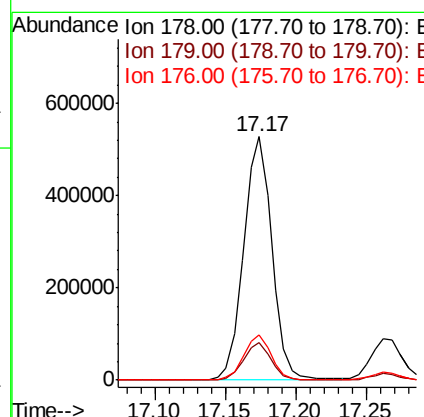
Manual Integrations  
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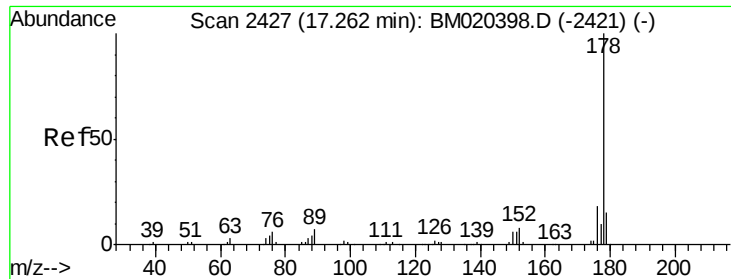
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#69  
 Phenanthrene  
 Concen: 36.740 ng/ul  
 RT: 17.17 min Scan# 2412  
 Delta R.T. -0.00 min  
 Lab File: BM020405.D  
 Acq: 18 May 2019 17:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 15.3  | 11.9  | 17.9  |
| 176     | 18.5  | 14.6  | 22.0  |





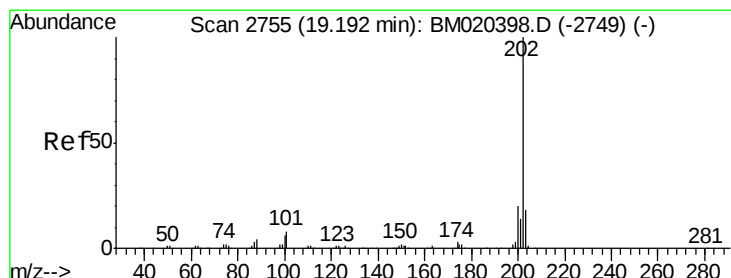
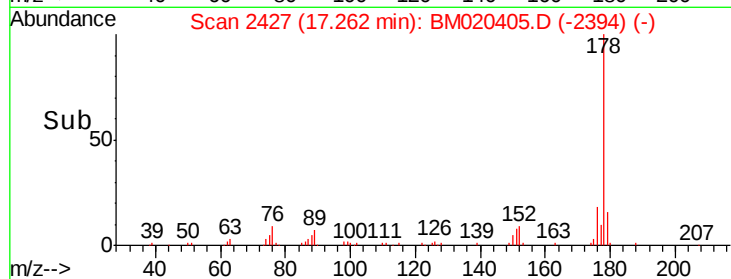
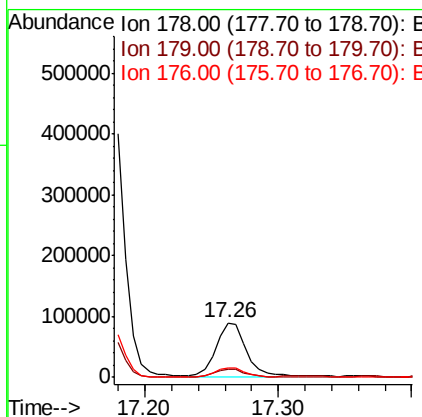
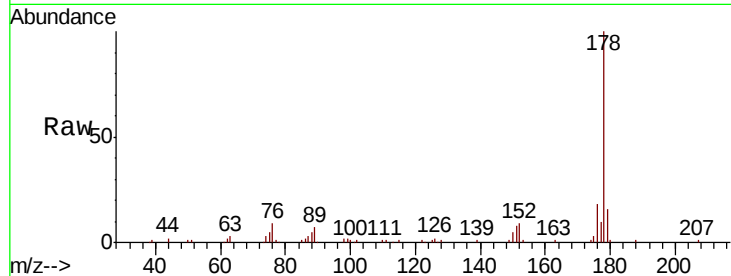
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 Anthracene  
 Concen: 7.048 ng/ul  
 RT: 17.26 min Scan# 2427  
 Delta R.T. -0.01 min  
 Lab File: BM020405.D  
 Acq: 18 May 2019 17:13

Instrument :  
 BNA\_M  
 ClientSampleId :  
 GAJ92MEDL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 15.9  | 12.4  | 18.6  |
| 176     | 18.1  | 14.4  | 21.6  |

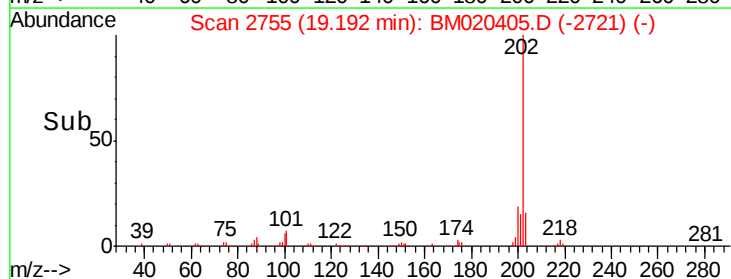
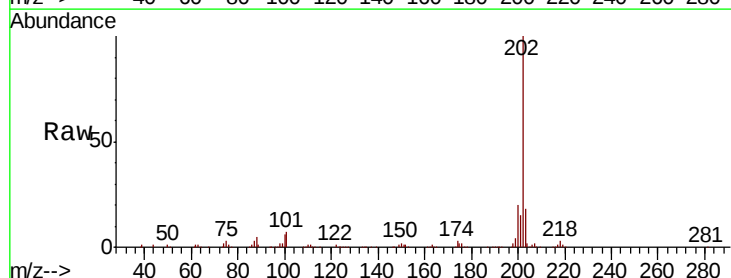
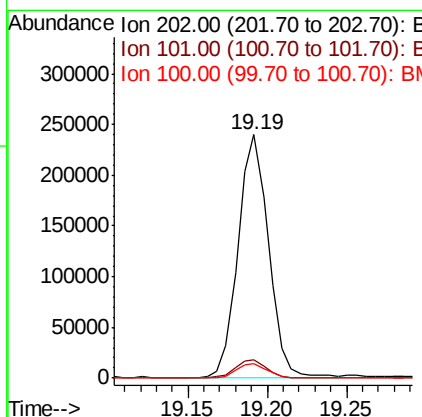
Manual Integrations  
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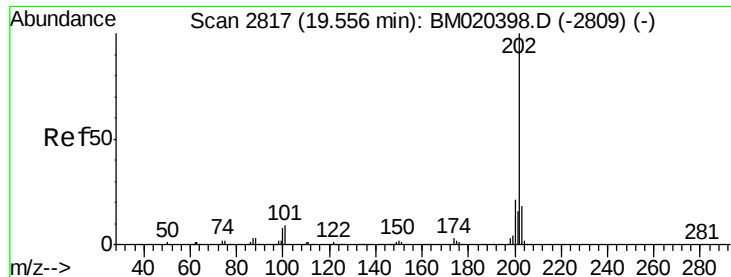
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#76  
 Fluoranthene  
 Concen: 12.602 ng/ul  
 RT: 19.19 min Scan# 2755  
 Delta R.T. -0.00 min  
 Lab File: BM020405.D  
 Acq: 18 May 2019 17:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 7.4   | 6.4   | 9.6   |
| 100     | 5.8   | 5.2   | 7.8   |





#79

Pvrene

Concen: 16.131 ng/ul

RT: 19.56 min Scan# 2817

Delta R.T. -0.00 min

Lab File: BM020405.D

Acq: 18 May 2019 17:13

Instrument :

BNA\_M

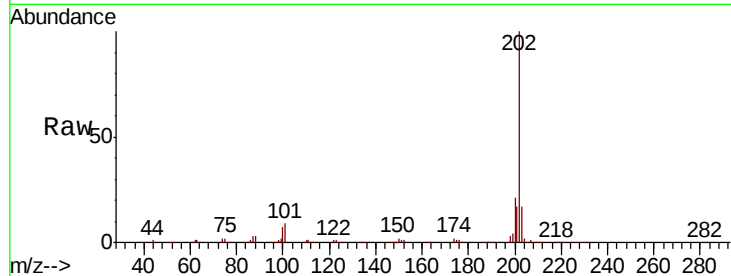
ClientSampleId :

GAJ92MEDL

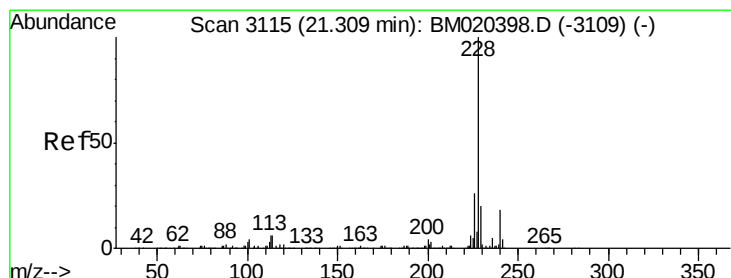
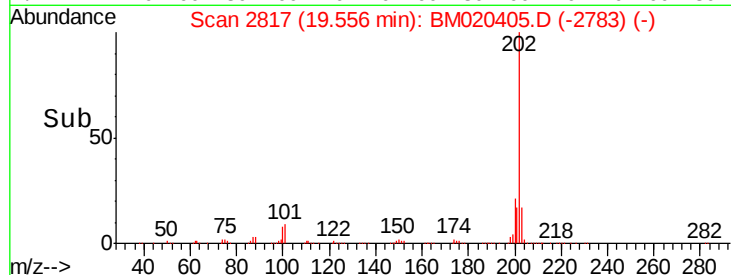
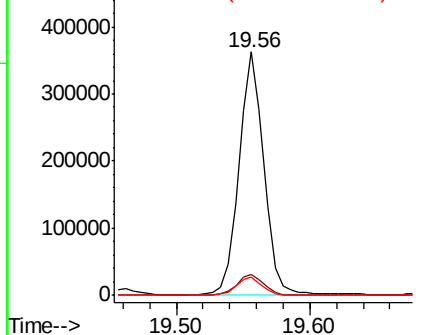
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 202   | Resp: | 465096 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 8.5   | 7.1   | 10.7   |
| 100       | 7.4   | 5.9   | 8.9    |

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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



#82

Benzo(a)anthracene

Concen: 6.145 ng/ul m

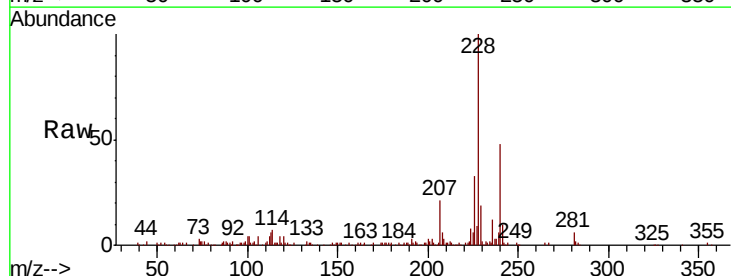
RT: 21.30 min Scan# 3114

Delta R.T. -0.00 min

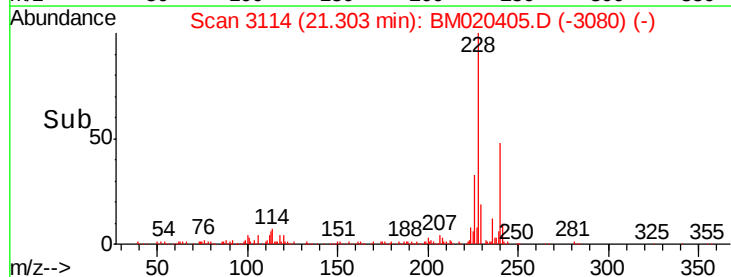
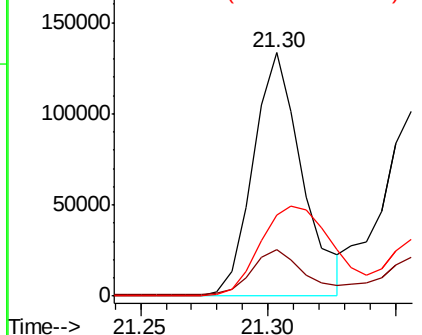
Lab File: BM020405.D

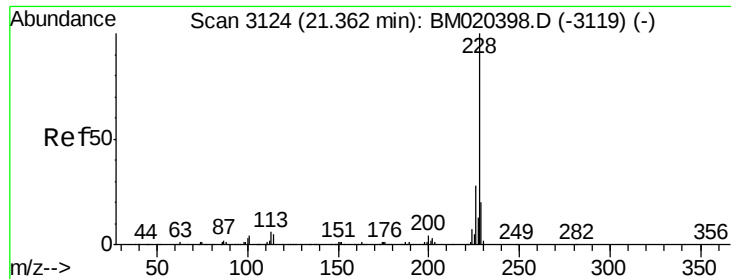
Acq: 18 May 2019 17:13

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 177673 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 229       | 19.3  | 15.8  | 23.8   |
| 226       | 33.2  | 20.6  | 30.8#  |



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





#84

Chrysene

Concen: 5.274 ng/ul

RT: 21.36 min Scan# 3123

Delta R.T. -0.00 min

Lab File: BM020405.D

Acq: 18 May 2019 17:13

Instrument :

BNA\_M

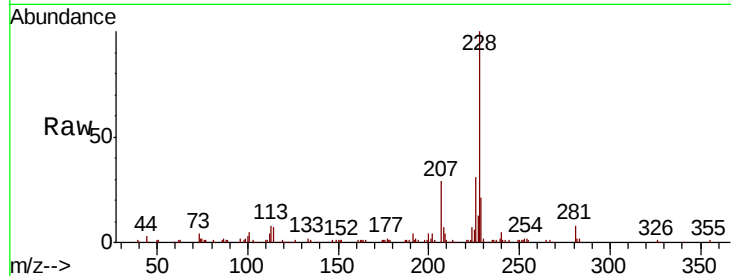
ClientSampleId :

GAJ92MEDL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 228   | Resp: | 145720 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 30.6  | 22.2  | 33.4   |
| 229       | 20.7  | 15.4  | 23.2   |

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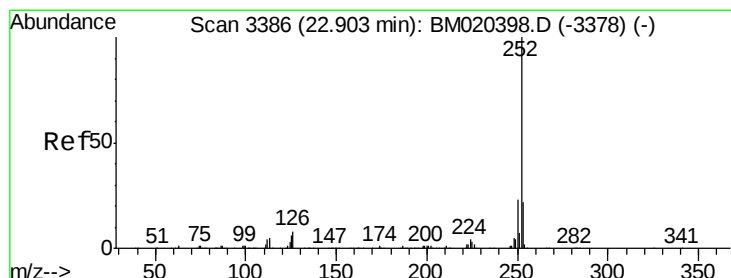
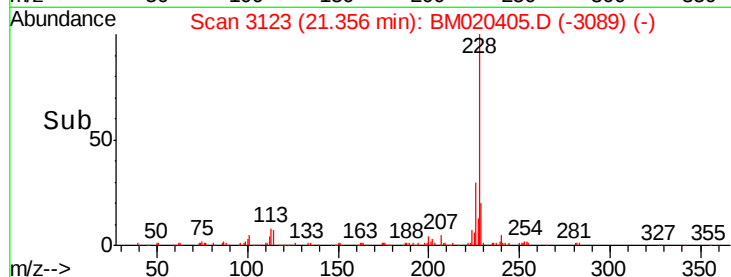
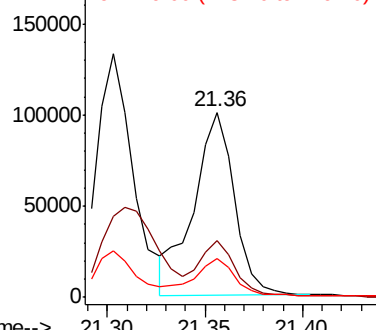


Abundance

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



#87

Benzo(b)fluoranthene

Concen: 3.594 ng/ul m

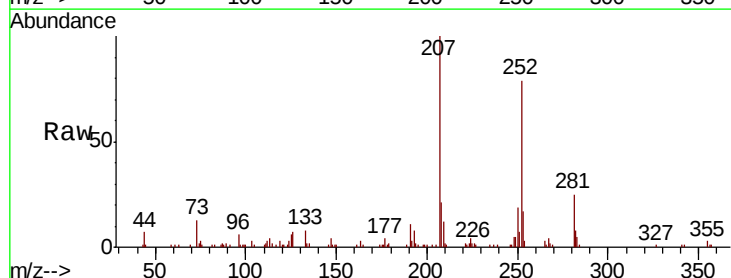
RT: 22.90 min Scan# 3386

Delta R.T. -0.00 min

Lab File: BM020405.D

Acq: 18 May 2019 17:13

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 111734 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 21.7  | 17.0  | 25.6   |
| 125       | 7.2   | 5.0   | 7.4    |

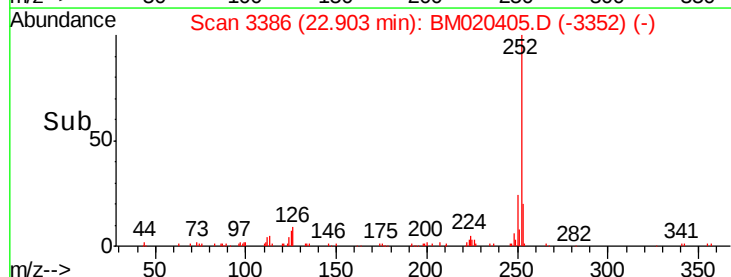
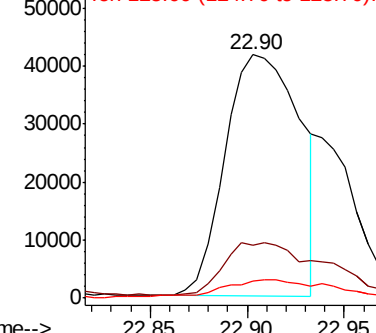


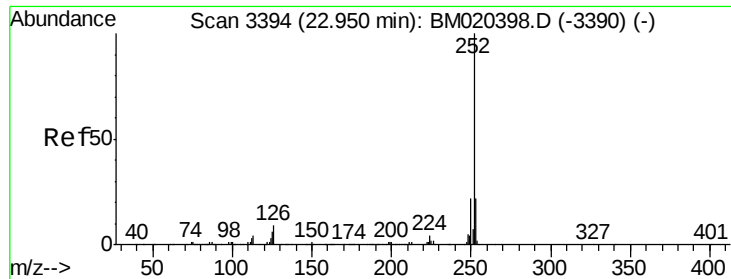
Abundance

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





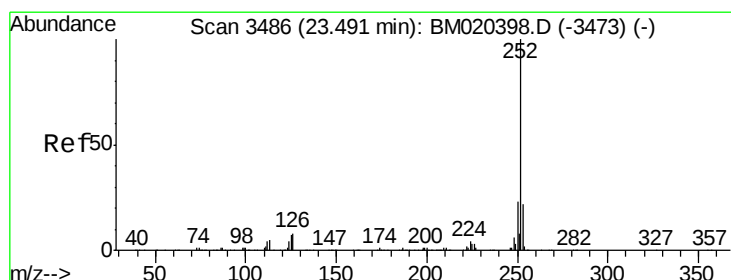
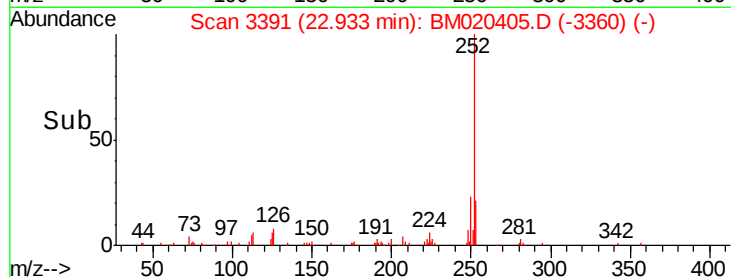
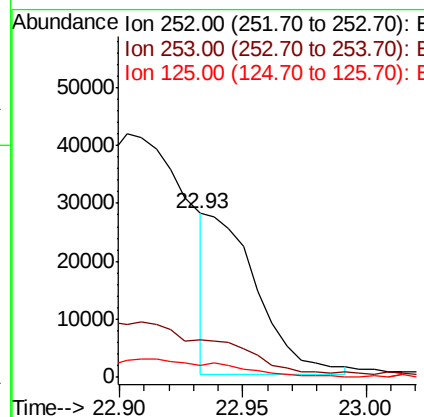
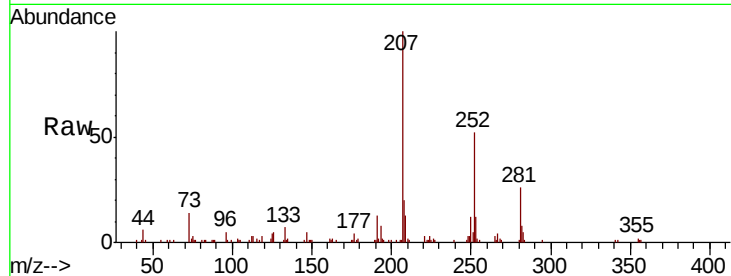
#88  
Benzo(k)fluoranthene  
Concen: 1.267 ng/ul m  
RT: 22.93 min Scan# 3391  
Delta R.T. -0.02 min  
Lab File: BM020405.D  
Acq: 18 May 2019 17:13

Instrument :  
BNA\_M  
ClientSampled :  
GAJ92MEDL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.1  | 17.6  | 26.4  |
| 125     | 7.0   | 5.0   | 7.6   |

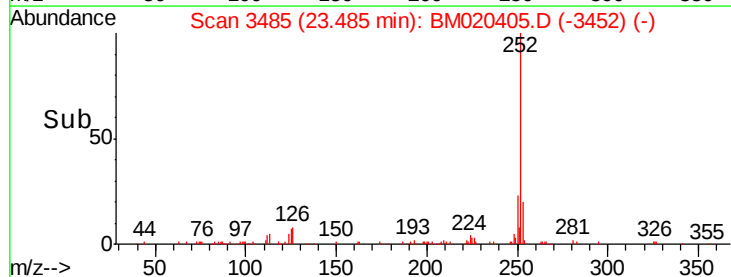
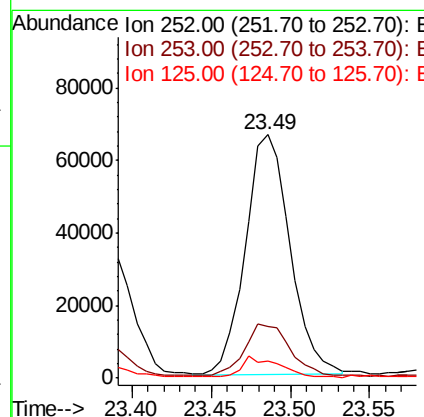
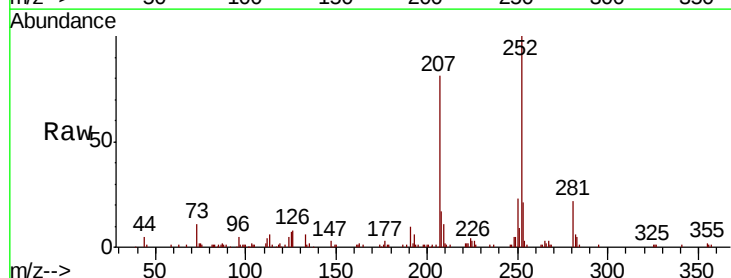
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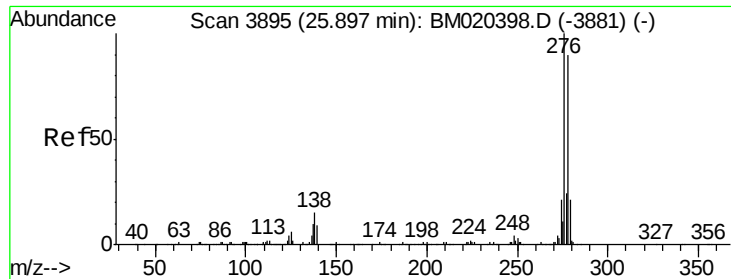
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#90  
Benzo(a)pyrene  
Concen: 4.413 ng/ul  
RT: 23.49 min Scan# 3485  
Delta R.T. -0.01 min  
Lab File: BM020405.D  
Acq: 18 May 2019 17:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 21.4  | 17.4  | 26.2  |
| 125     | 7.1   | 5.4   | 8.2   |





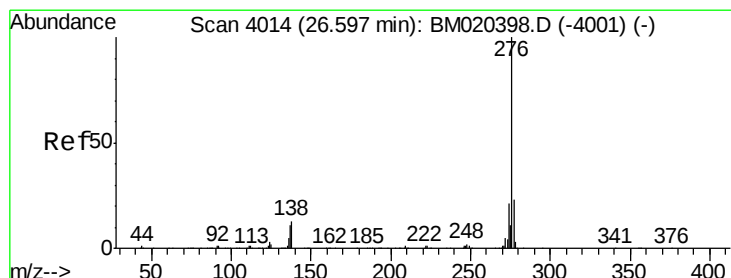
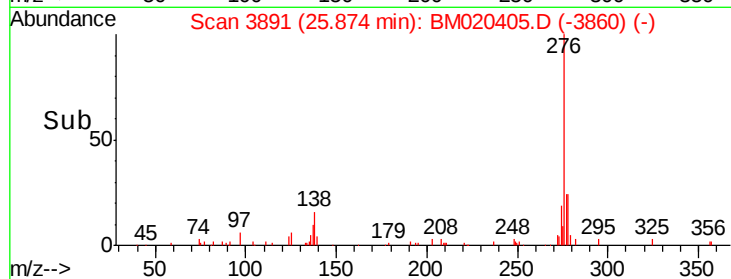
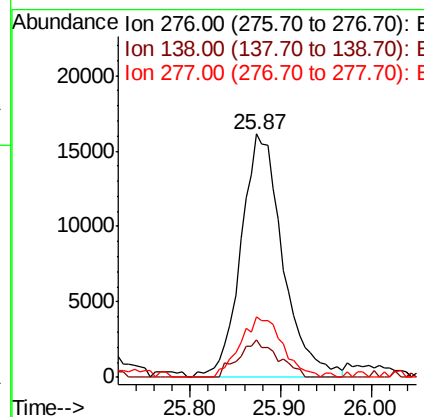
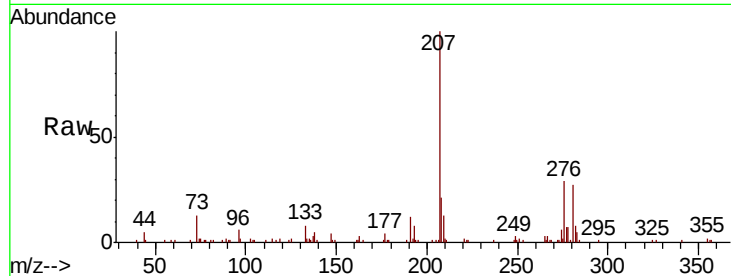
#91  
 Indeno(1,2,3-cd)pyrene  
 Concen: 1.550 ng/ul  
 RT: 25.87 min Scan# 3891  
 Delta R.T. -0.02 min  
 Lab File: BM020405.D  
 Acq: 18 May 2019 17:13

Instrument :  
 BNA\_M  
 ClientSampleId :  
 GAJ92MEDL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 15.4  | 12.3  | 18.5  |
| 277     | 24.9  | 20.0  | 30.0  |

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#93  
 Benzo(g,h,i)perylene  
 Concen: 1.914 ng/ul  
 RT: 26.59 min Scan# 4012  
 Delta R.T. -0.01 min  
 Lab File: BM020405.D  
 Acq: 18 May 2019 17:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 10.5  | 10.0  | 15.0  |
| 277     | 21.5  | 18.2  | 27.4  |

