

Data Path : Z:\HPCHEM1\BNA G\DATA\BG112116\  
 Data File : BG024858.D  
 Acq On : 21 Nov 2016 14:35  
 Operator : UM/SJ  
 Sample : H5694-02  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 JHSR1

Manual Integrations  
 APPROVED

sohil  
 11/22/2016 4:06:52 PM

Quant Time: Nov 21 16:47:40 2016  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG111416.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Mon Nov 21 04:36:38 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.26  | 152  | 108072   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 11.09 | 136  | 480603   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.88 | 164  | 398744   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.62 | 188  | 814759   | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.92 | 240  | 979990   | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 25.36 | 264  | 1054505  | 20.00 | ng/ul | 0.02     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.62  | 96  | 5989   | 2.87  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.39  | 99  | 168063 | 18.15 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.58  | 67  | 119323 | 20.49 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.78  | 132 | 124574 | 18.76 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.95  | 113 | 149746 | 19.26 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.44  | 128 | 74410  | 20.45 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 10.16 | 143 | 82143  | 18.91 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.70 | 165 | 154904 | 17.92 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 11.22 | 131 | 104942 | 10.86 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 14.27 | 166 | 566225 | 19.48 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.58 | 160 | 658465 | 20.78 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 15.06 | 143 | 68504  | 13.24 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.87 | 176 | 537346 | 19.64 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.98 | 200 | 55600  | 9.93  | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.72 | 188 | 780859 | 21.70 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 20.00 | 212 | 925235 | 21.77 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 25.12 | 264 | 942233 | 20.41 | ng/ul | 0.02 |

## Target Compounds

|                            |       |     |         |       |        | Ovalue |
|----------------------------|-------|-----|---------|-------|--------|--------|
| 6) Phenol                  | 7.42  | 94  | 23878   | 2.47  | ng/ul  | 97     |
| 44) Dimethylphthalate      | 14.31 | 163 | 102980  | 3.69  | ng/ul  | 96     |
| 49) Acenaphthene           | 14.94 | 153 | 26289   | 1.21  | ng/ul  | 96     |
| 58) Fluorene               | 15.92 | 166 | 38777   | 1.44  | ng/ul# | 94     |
| 69) Phenanthrene           | 17.66 | 178 | 486923  | 11.99 | ng/ul  | 98     |
| 71) Anthracene             | 17.75 | 178 | 205021  | 4.88  | ng/ul  | 98     |
| 72) Carbazole              | 18.03 | 167 | 64595   | 1.87  | ng/ul  | 97     |
| 74) Fluoranthene           | 19.66 | 202 | 1029480 | 21.82 | ng/ul  | 98     |
| 77) Pyrene                 | 20.02 | 202 | 793598  | 16.48 | ng/ul  | 98     |
| 80) Benzo(a)anthracene     | 21.90 | 228 | 620061  | 11.63 | ng/ul  | 98     |
| 82) Chrysene               | 21.96 | 228 | 542470  | 10.85 | ng/ul  | 95     |
| 85) Benzo(b)fluoranthene   | 24.26 | 252 | 592724  | 10.67 | ng/ul  | 98     |
| 86) Benzo(k)fluoranthene   | 24.32 | 252 | 227867m | 4.32  | ng/ul  |        |
| 88) Benzo(a)pyrene         | 25.19 | 252 | 416223  | 7.74  | ng/ul  | 98     |
| 89) Indeno(1,2,3-cd)pyrene | 29.30 | 276 | 236513  | 3.52  | ng/ul# | 92     |
| 91) Benzo(g,h,i)perylene   | 30.55 | 276 | 174207  | 3.15  | ng/ul  | 94     |

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

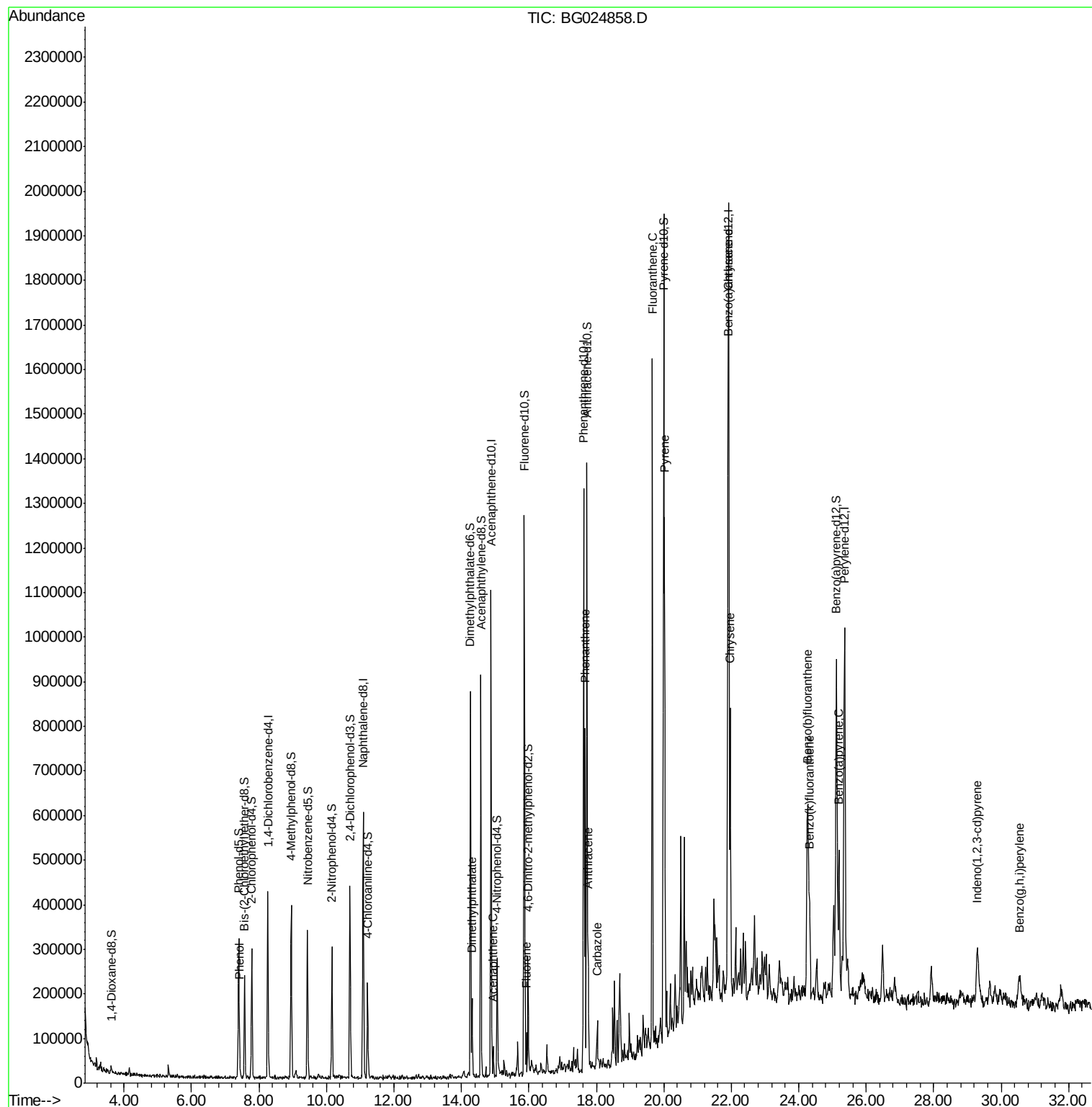
Data Path : Z:\HPCHEM1\BNA G\DATA\BG112116\  
Data File : BG024858.D  
Acq On : 21 Nov 2016 14:35  
Operator : UM/SJ  
Sample : H5694-02  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

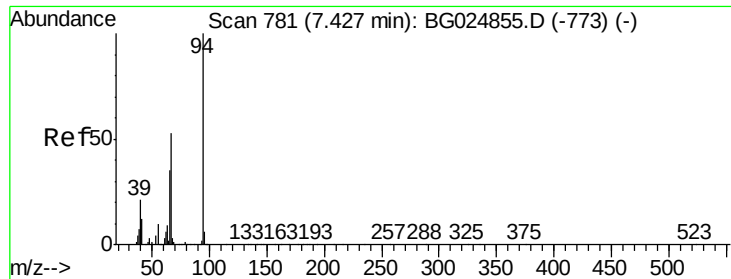
Instrument :  
BNA\_G  
ClientSampleId :  
JHSR1

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Quant Time: Nov 21 16:47:40 2016  
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG111416.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Mon Nov 21 04:36:38 2016  
Response via : Initial Calibration





#6

Phenol

Concen: 2.47 ng/ul

RT: 7.42 min Scan# 780

Delta R.T. 0.00 min

Lab File: BG024858.D

Acq: 21 Nov 2016 14:35

Instrument :

BNA\_G

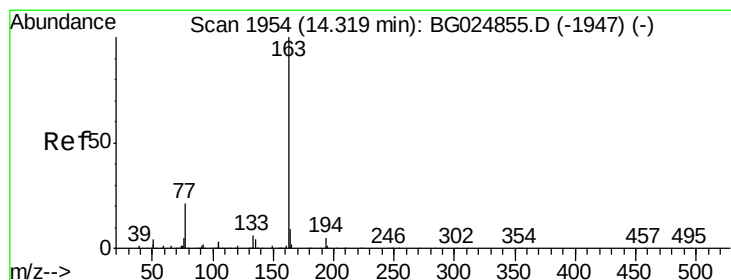
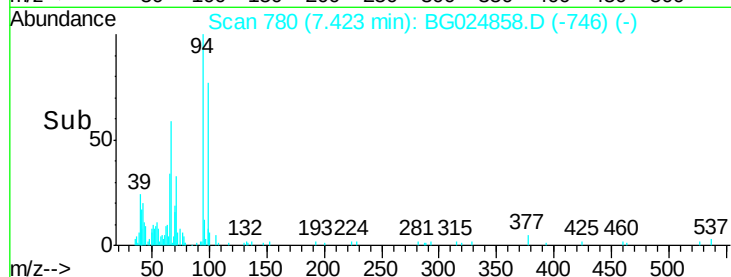
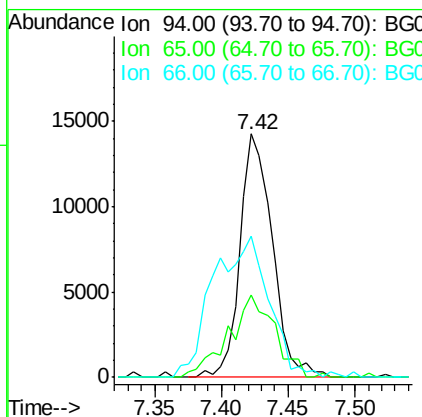
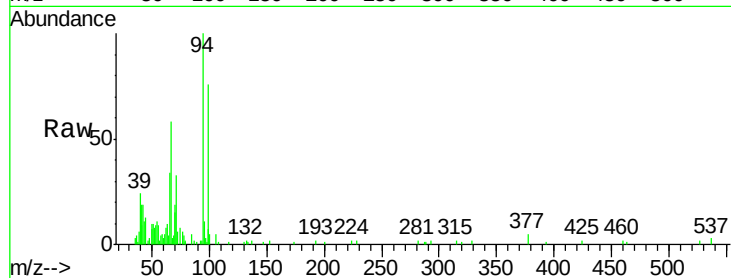
ClientSampleId :

JHSR1

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 94    | Resp: | 23878 |
| Ion      | Ratio | Lower | Upper |
| 94       | 100   |       |       |
| 65       | 34.0  | 26.8  | 40.2  |
| 66       | 58.2  | 44.4  | 66.6  |

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#44

Dimethylphthalate

Concen: 3.69 ng/ul

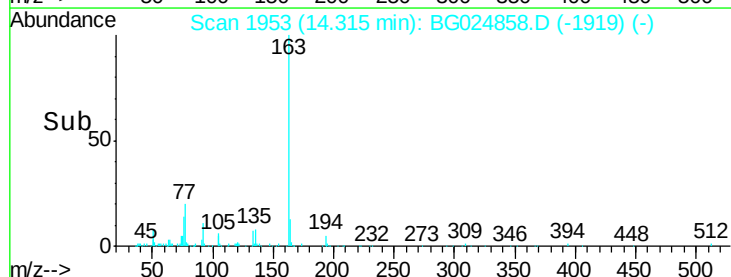
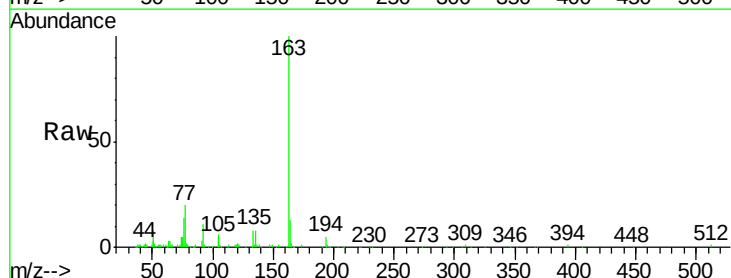
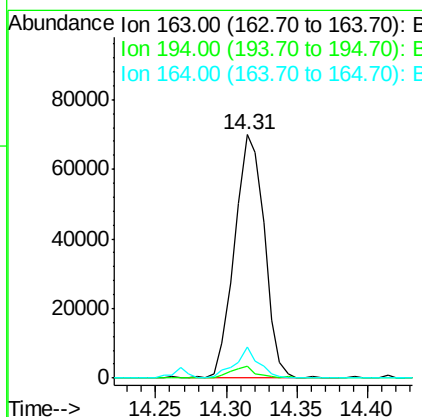
RT: 14.31 min Scan# 1953

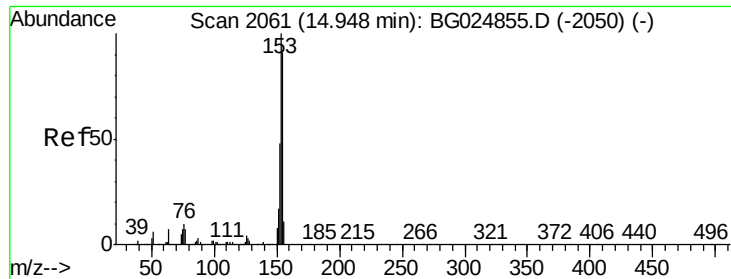
Delta R.T. 0.00 min

Lab File: BG024858.D

Acq: 21 Nov 2016 14:35

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 163   | Resp: | 102980 |
| Ion      | Ratio | Lower | Upper  |
| 163      | 100   |       |        |
| 194      | 4.7   | 3.4   | 5.0    |
| 164      | 12.8  | 9.0   | 13.4   |





#49

Acenaphthene

Concen: 1.21 ng/ul

RT: 14.94 min Scan# 2060

Delta R.T. 0.00 min

Lab File: BG024858.D

Acq: 21 Nov 2016 14:35

Instrument :

BNA\_G

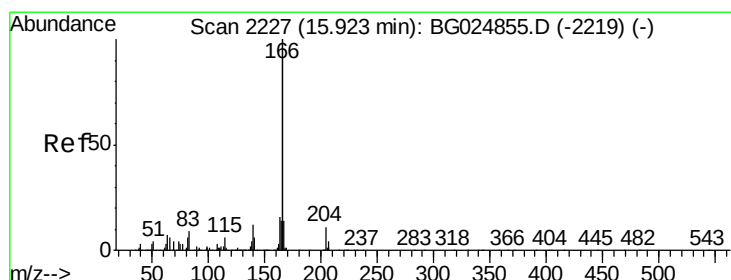
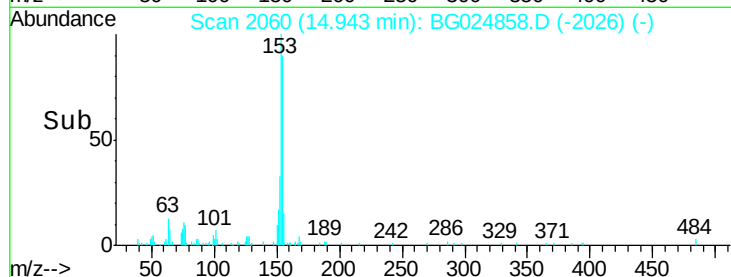
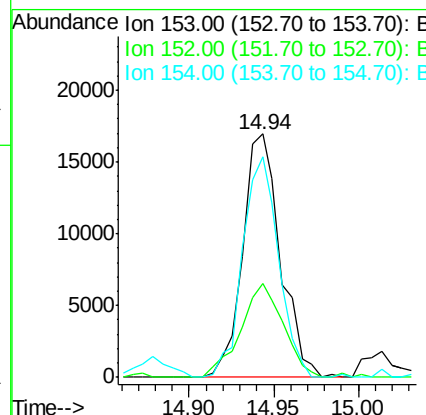
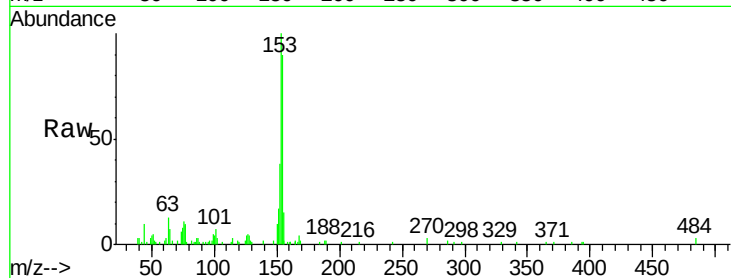
ClientSampled :

JHSR1

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 153   | Resp: | 26289 |
| Ion Ratio | Lower | Upper |       |
| 153       | 100   |       |       |
| 152       | 38.5  | 36.5  | 54.7  |
| 154       | 90.4  | 72.3  | 108.5 |

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#58

Fluorene

Concen: 1.44 ng/ul

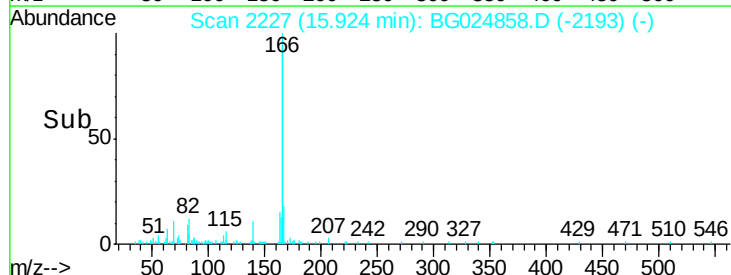
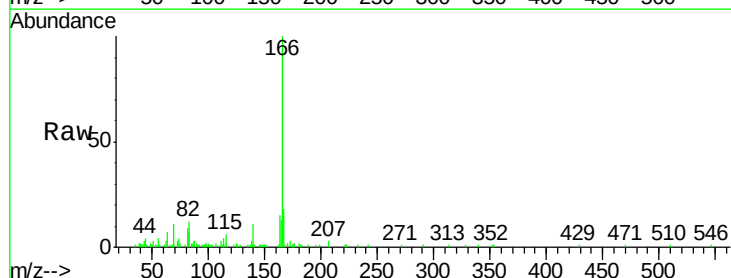
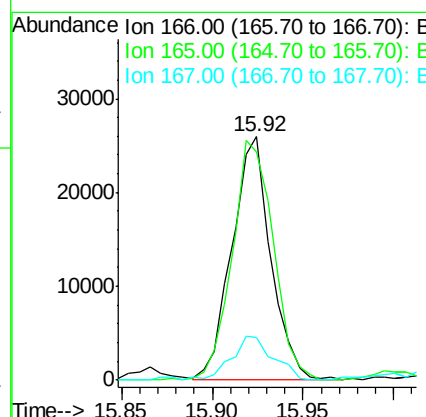
RT: 15.92 min Scan# 2227

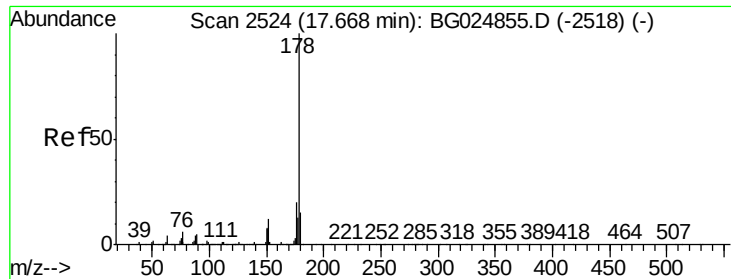
Delta R.T. 0.00 min

Lab File: BG024858.D

Acq: 21 Nov 2016 14:35

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 166   | Resp: | 38777 |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 93.8  | 79.7  | 119.5 |
| 167       | 17.8  | 11.4  | 17.2# |





#69

Phenanthrene

Concen: 11.99 ng/ul

RT: 17.66 min Scan# 2523

Delta R.T. 0.00 min

Lab File: BG024858.D

Acq: 21 Nov 2016 14:35

Instrument :

BNA\_G

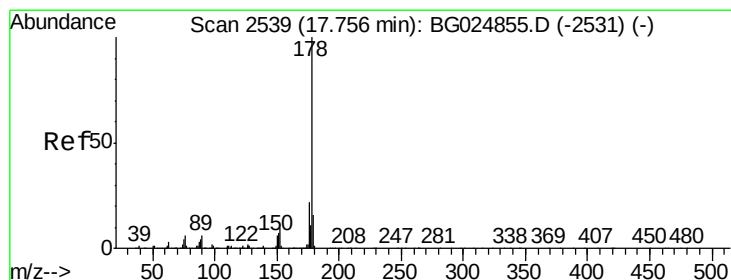
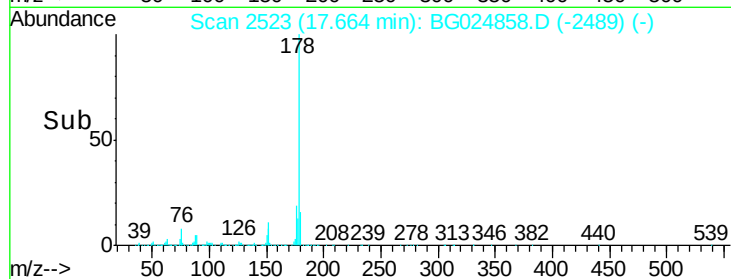
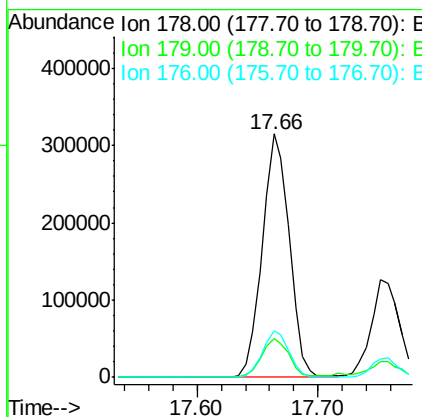
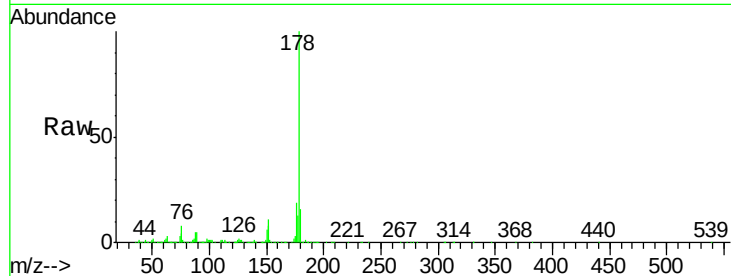
ClientSampleId :

JHSR1

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 178   | Resp: | 486923 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 179       | 16.2  | 12.4  | 18.6   |
| 176       | 19.2  | 16.5  | 24.7   |

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#71

Anthracene

Concen: 4.88 ng/ul

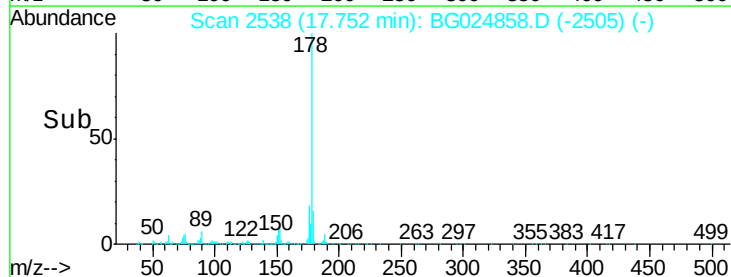
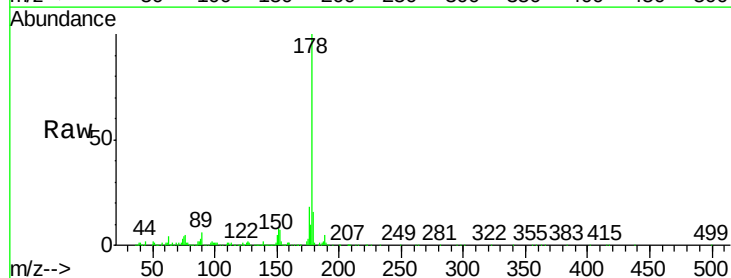
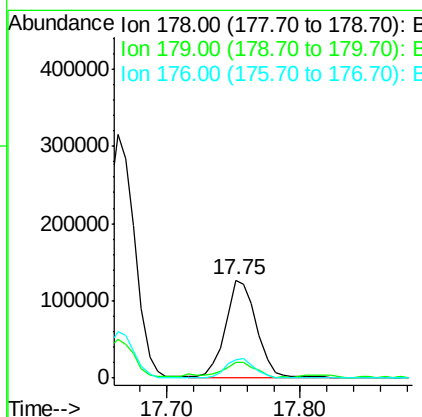
RT: 17.75 min Scan# 2538

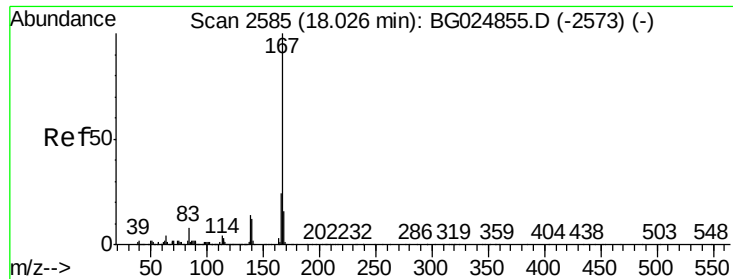
Delta R.T. -0.00 min

Lab File: BG024858.D

Acq: 21 Nov 2016 14:35

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 178   | Resp: | 205021 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 179       | 16.0  | 12.6  | 19.0   |
| 176       | 18.3  | 15.9  | 23.9   |





#72

Carbazole

Concen: 1.87 ng/ul

RT: 18.03 min Scan# 2585

Delta R.T. 0.01 min

Lab File: BG024858.D

Acq: 21 Nov 2016 14:35

Instrument :

BNA\_G

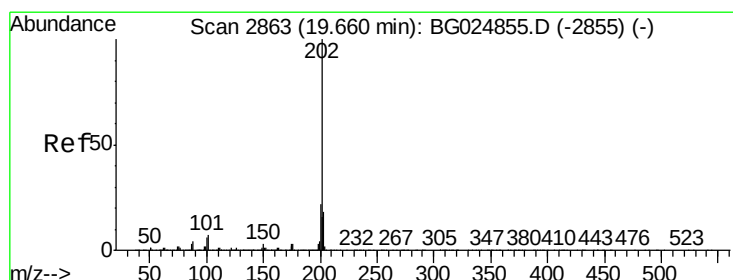
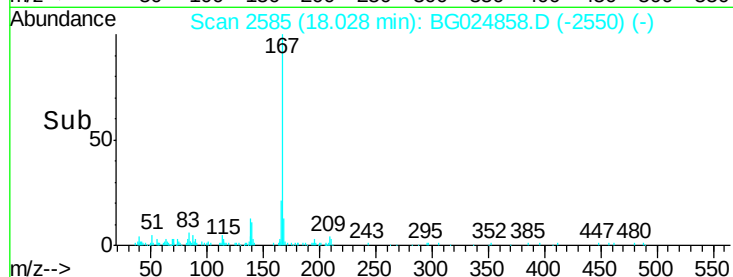
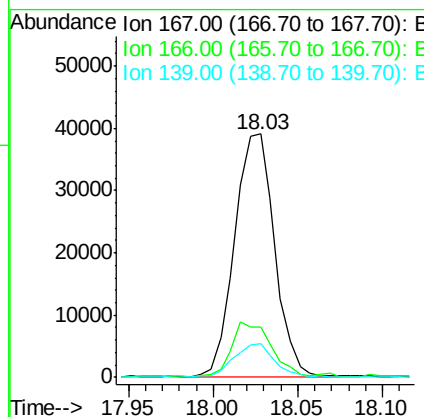
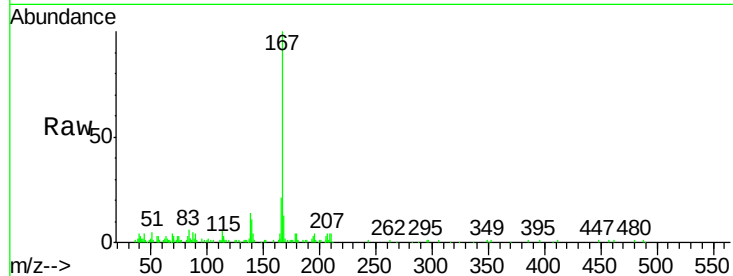
ClientSampled :

JHSR1

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 167   | Resp: | 64595 |
| Ion Ratio | Lower | Upper |       |
| 167       | 100   |       |       |
| 166       | 20.8  | 17.9  | 26.9  |
| 139       | 14.0  | 10.5  | 15.7  |

Manual Integrations  
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#74

Fluoranthene

Concen: 21.82 ng/ul

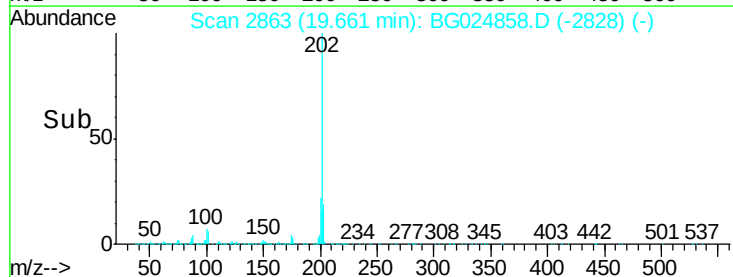
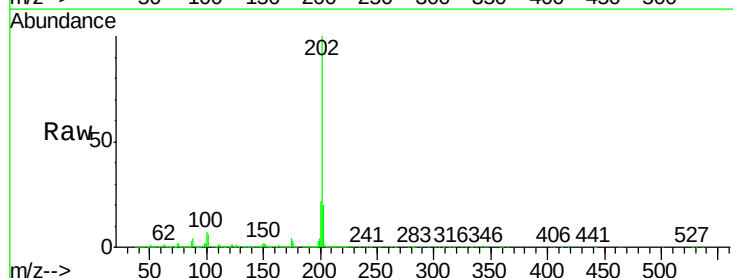
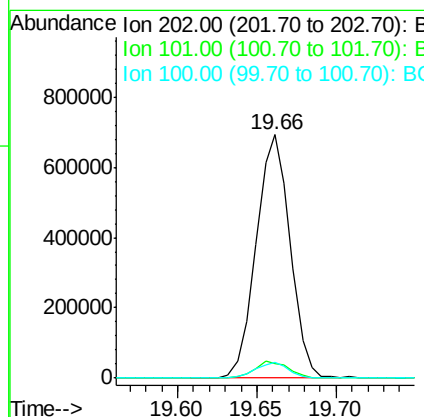
RT: 19.66 min Scan# 2863

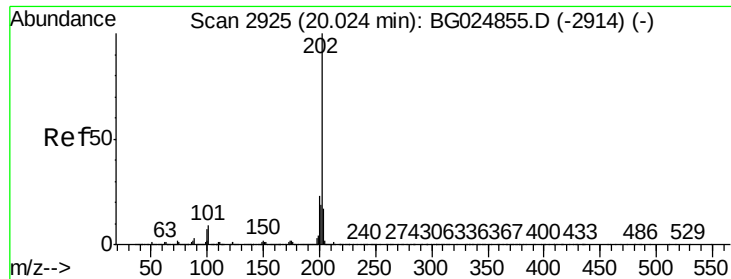
Delta R.T. 0.01 min

Lab File: BG024858.D

Acq: 21 Nov 2016 14:35

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 202   | Resp: | 1029480 |
| Ion Ratio | Lower | Upper |         |
| 202       | 100   |       |         |
| 101       | 6.2   | 6.2   | 9.2     |
| 100       | 6.6   | 5.2   | 7.8     |





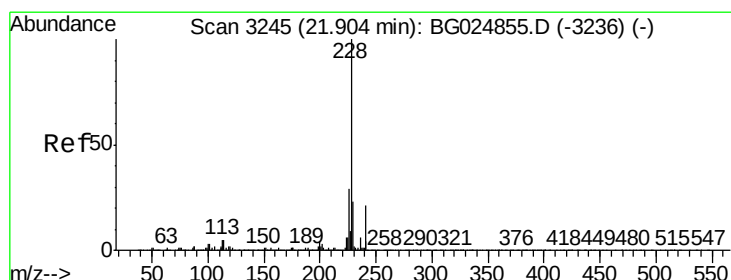
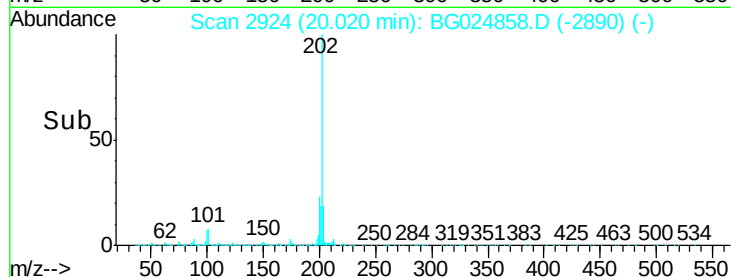
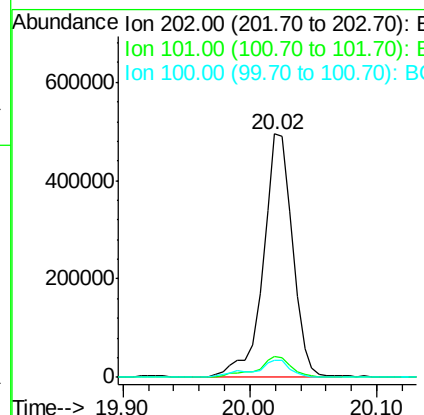
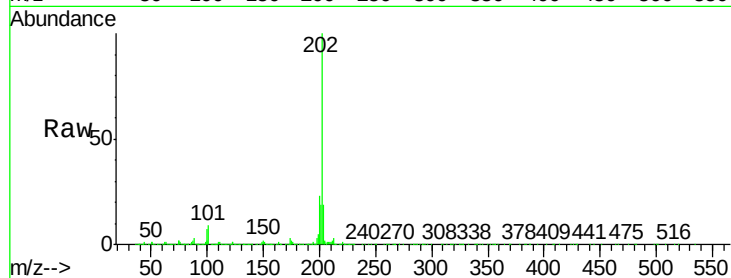
#77  
Pvrene  
Concen: 16.48 ng/ul  
RT: 20.02 min Scan# 2924  
Delta R.T. 0.00 min  
Lab File: BG024858.D  
Acq: 21 Nov 2016 14:35

Instrument :  
BNA\_G  
ClientSampled :  
JHSR1

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 8.5   | 6.9        | 10.3  |
| 100     | 6.8   | 6.6        | 10.0  |

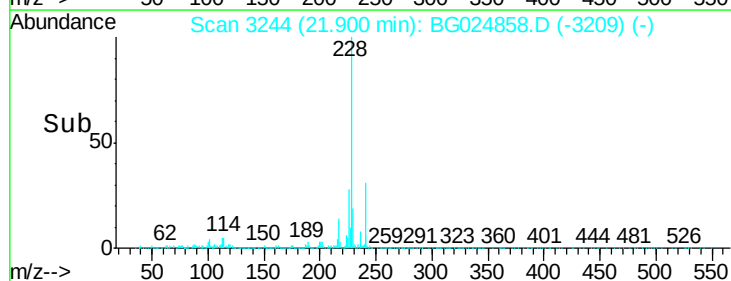
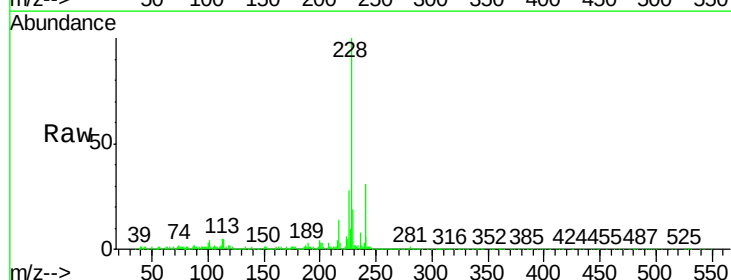
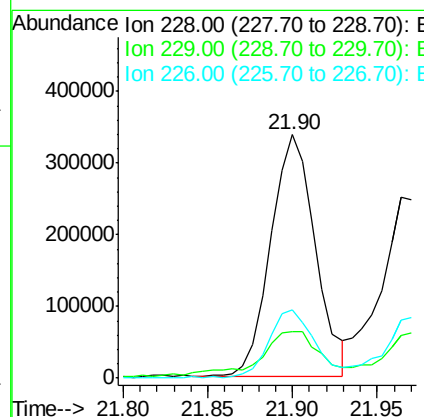
Manual Integrations  
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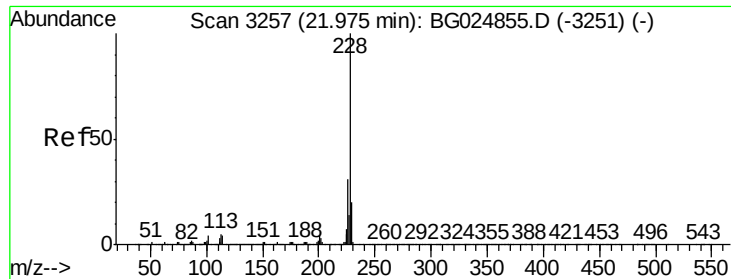
sohil  
11/22/2016 4:06:52 PM



#80  
Benzo(a)anthracene  
Concen: 11.63 ng/ul  
RT: 21.90 min Scan# 3244  
Delta R.T. 0.01 min  
Lab File: BG024858.D  
Acq: 21 Nov 2016 14:35

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 228     | 100   |            |       |
| 229     | 19.0  | 16.3       | 24.5  |
| 226     | 28.2  | 21.9       | 32.9  |





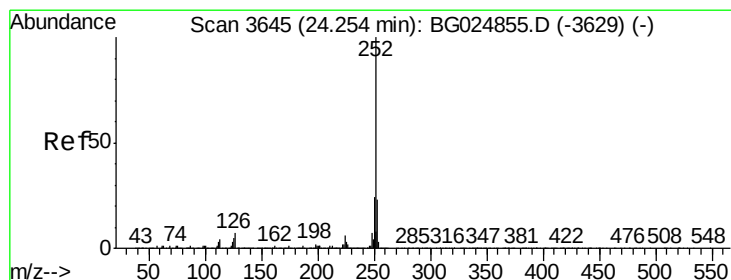
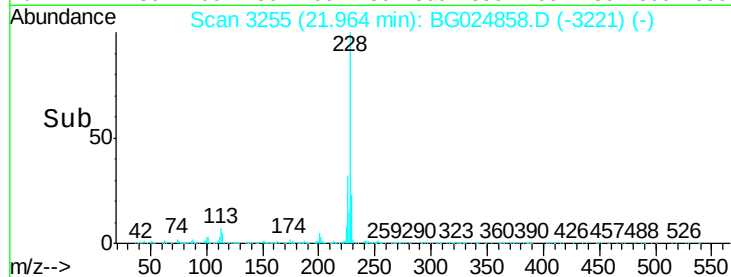
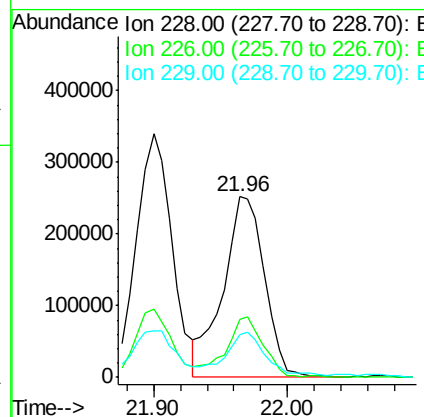
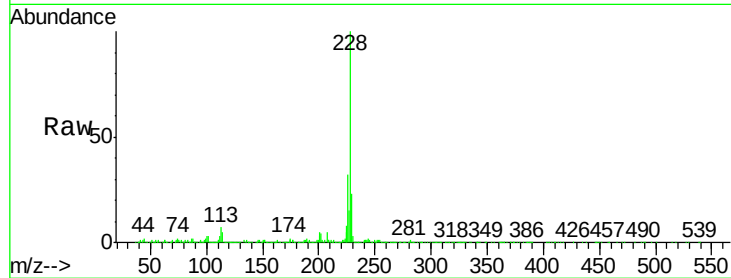
#82  
Chrysene  
Concen: 10.85 ng/ul  
RT: 21.96 min Scan# 3255  
Delta R.T. 0.00 min  
Lab File: BG024858.D  
Acq: 21 Nov 2016 14:35

Instrument :  
BNA\_G  
ClientSampleId :  
JHSR1

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 228   | Resp: | 542470 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 32.4  | 24.0  | 36.0   |
| 229       | 23.5  | 16.9  | 25.3   |

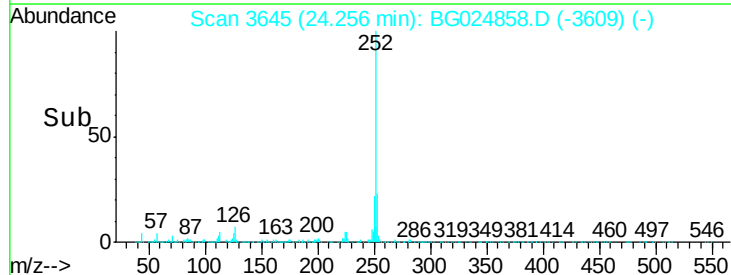
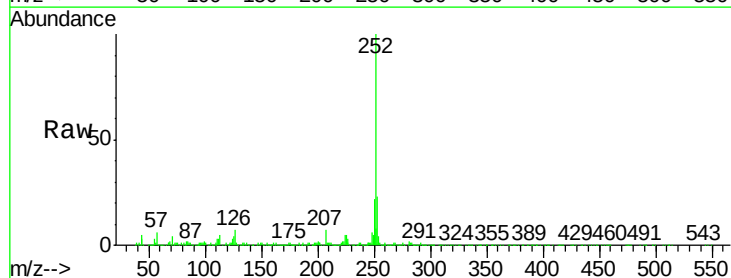
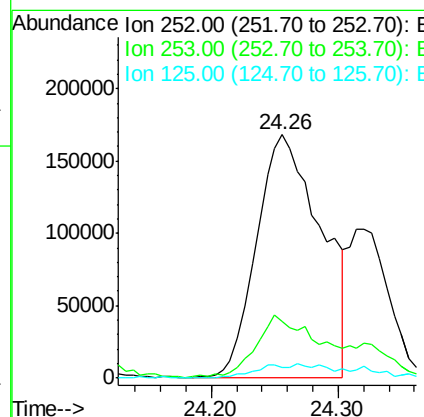
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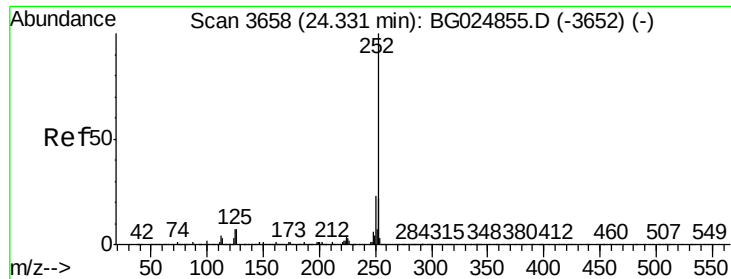


#85  
Benzo(b)fluoranthene  
Concen: 10.67 ng/ul  
RT: 24.26 min Scan# 3645  
Delta R.T. 0.01 min  
Lab File: BG024858.D  
Acq: 21 Nov 2016 14:35

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 592724 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 23.3  | 17.7  | 26.5   |
| 125       | 4.5   | 4.0   | 6.0    |







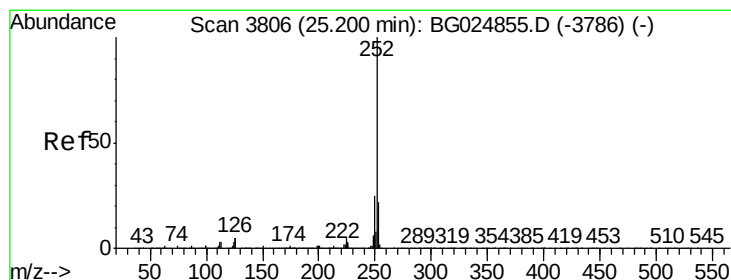
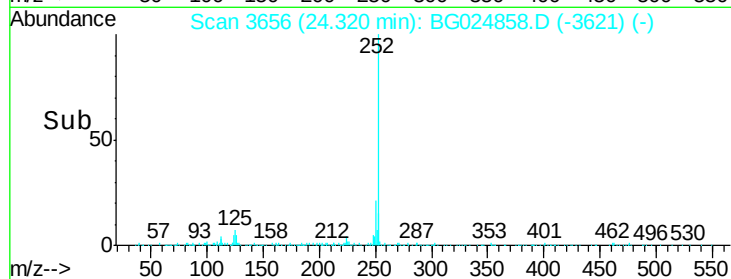
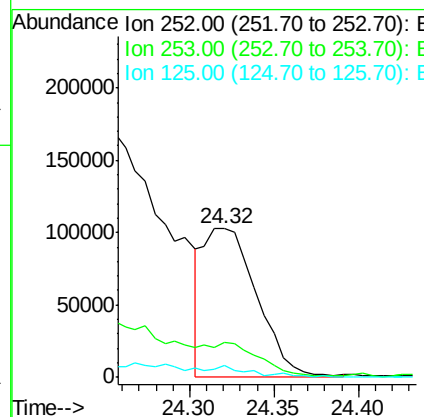
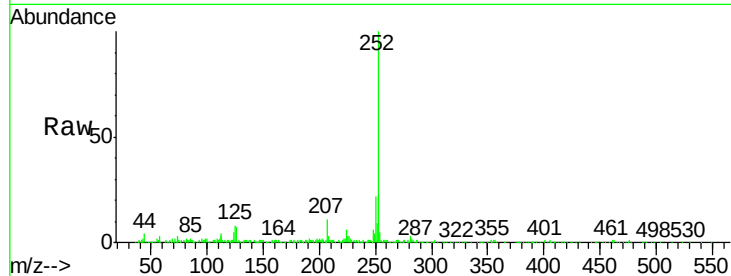
#86  
Benzo(k)fluoranthene  
Concen: 4.32 ng/ul m  
RT: 24.32 min Scan# 3656  
Delta R.T. 0.01 min  
Lab File: BG024858.D  
Acq: 21 Nov 2016 14:35

Instrument :  
BNA\_G  
ClientSampled :  
JHSR1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.2  | 18.5  | 27.7  |
| 125     | 7.7   | 4.1   | 6.1#  |

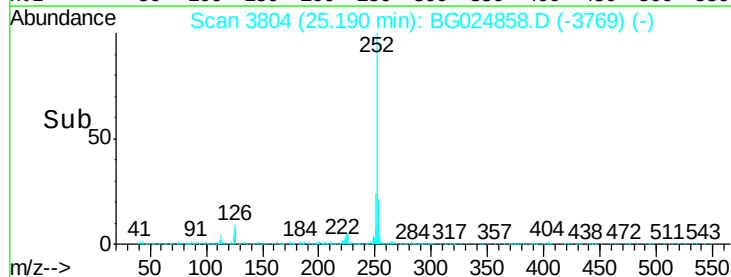
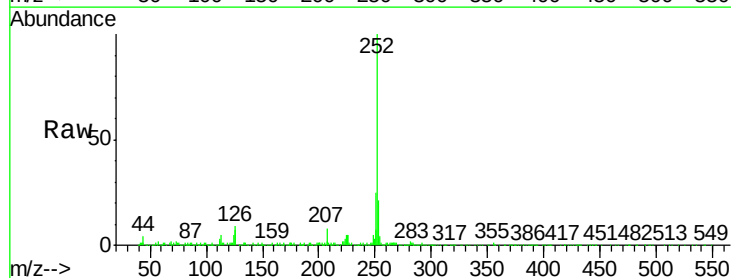
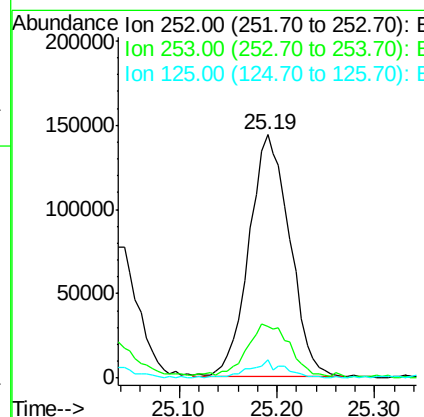
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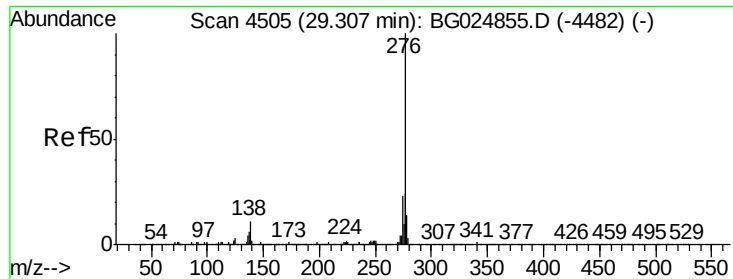
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#88  
Benzo(a)pyrene  
Concen: 7.74 ng/ul  
RT: 25.19 min Scan# 3804  
Delta R.T. 0.01 min  
Lab File: BG024858.D  
Acq: 21 Nov 2016 14:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 21.0  | 17.8  | 26.6  |
| 125     | 7.5   | 5.4   | 8.0   |





#89

Indeno(1,2,3-cd)pyrene

Concen: 3.52 ng/ul

RT: 29.30 min Scan# 4504

Delta R.T. 0.03 min

Lab File: BG024858.D

Acq: 21 Nov 2016 14:35

Instrument :

BNA\_G

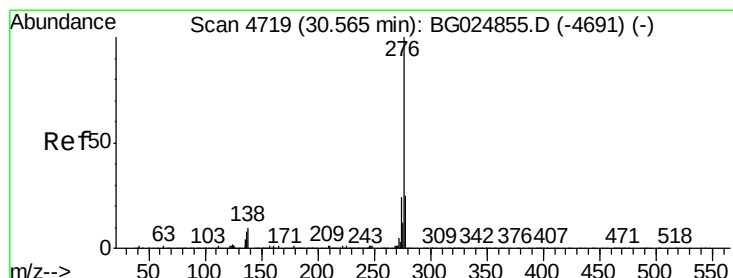
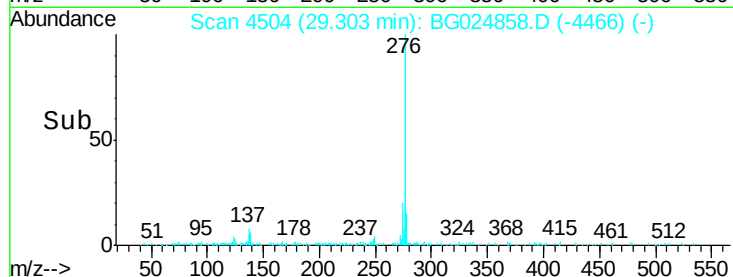
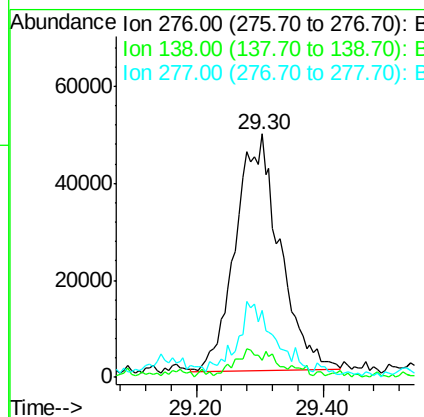
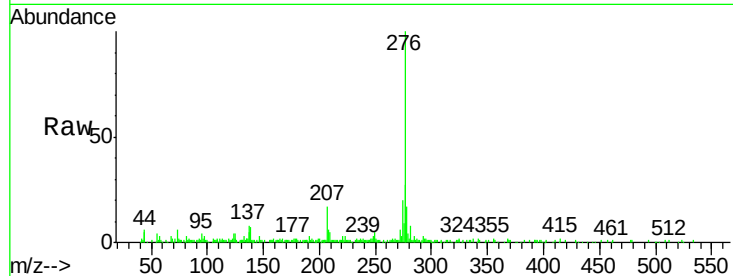
ClientSampleId :

JHSR1

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 276   | Resp: | 236513 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 7.3   | 8.2   | 12.4#  |
| 277       | 27.3  | 18.6  | 28.0   |

Manual Integrations  
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#91

Benzo(g,h,i)perylene

Concen: 3.15 ng/ul

RT: 30.55 min Scan# 4716

Delta R.T. 0.03 min

Lab File: BG024858.D

Acq: 21 Nov 2016 14:35

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 276   | Resp: | 174207 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 9.7   | 8.6   | 12.8   |
| 277       | 25.9  | 17.6  | 26.4   |

