

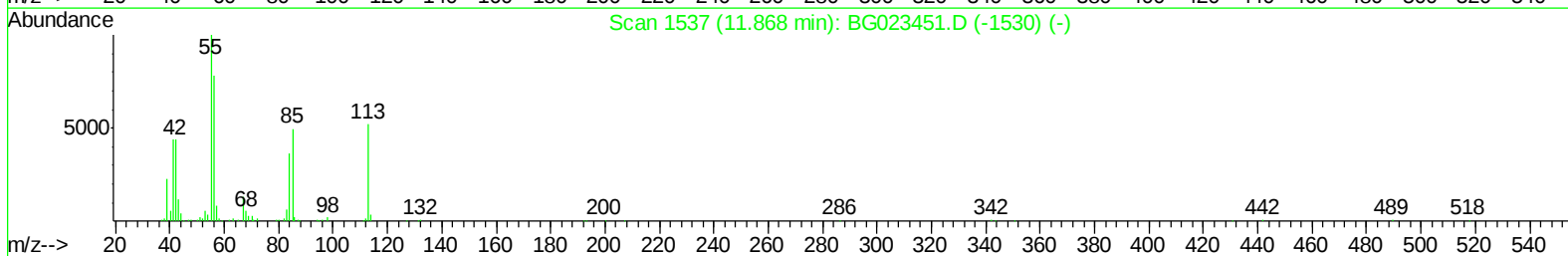
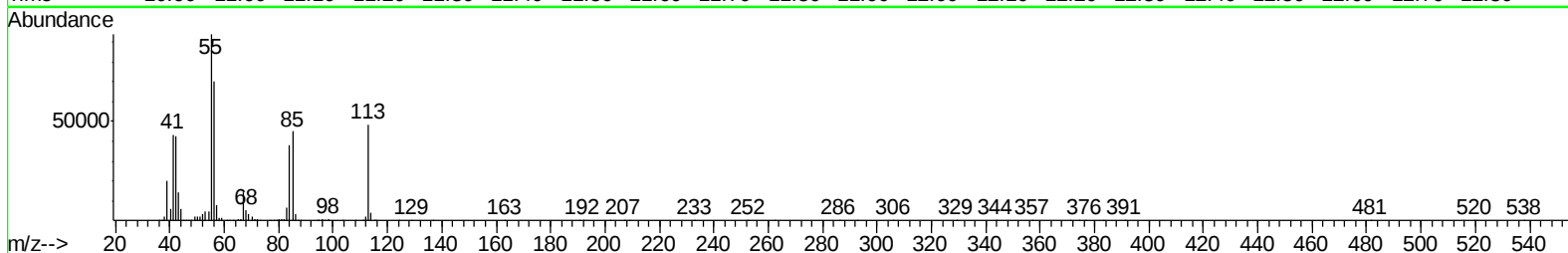
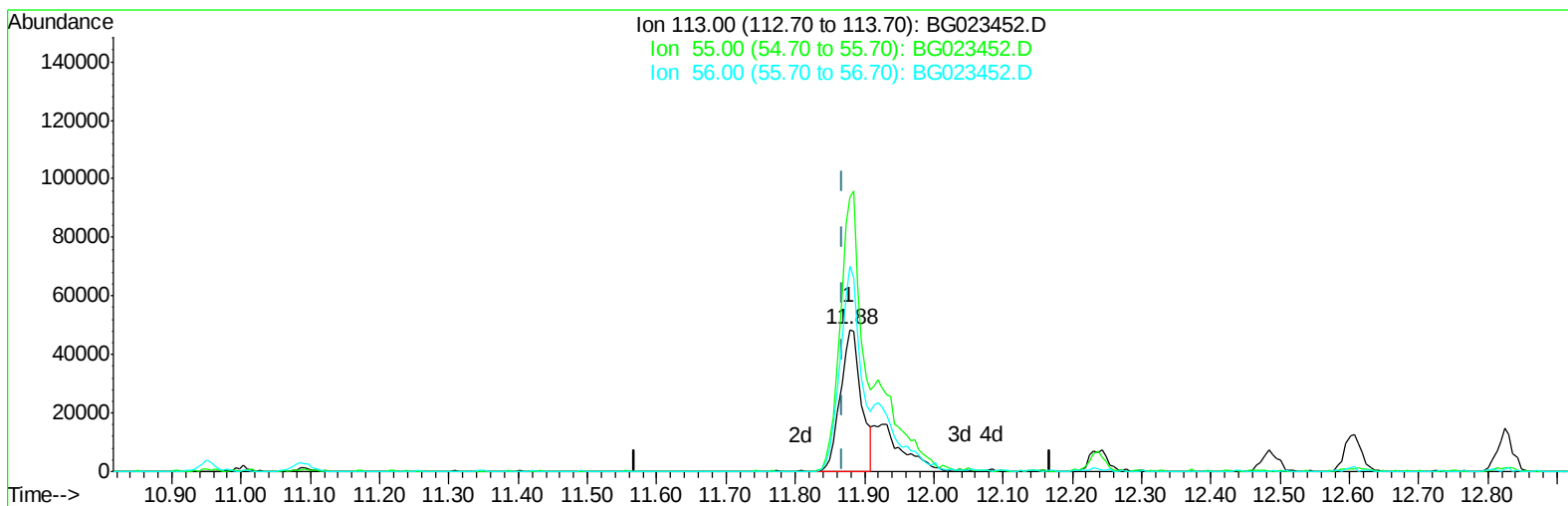
Data Path : Z:\HPCHEM1\BNA G\DATA\BG080416\  
Data File : BG023452.D  
Acq On : 4 Aug 2016 15:08  
Operator : UM/SJ  
Sample : SST04004  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
SSTD04004

Manual Integrations  
APPROVED

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8/5/2016 6:59:54 PM

Quant Time: Aug 04 15:51:50 2016  
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG080416.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu Aug 04 15:23:03 2016  
Response via : Initial Calibration



TIC: BG023452.D

(32) Caprolactam

11.879min (+0.011) 28.58ng/ul

response 103402

| Ion    | Exp%   | Act%    |
|--------|--------|---------|
| 113.00 | 100    | 100     |
| 55.00  | 124.50 | 193.41# |
| 56.00  | 83.00  | 144.54# |
| 0.00   | 0.00   | 0.00    |

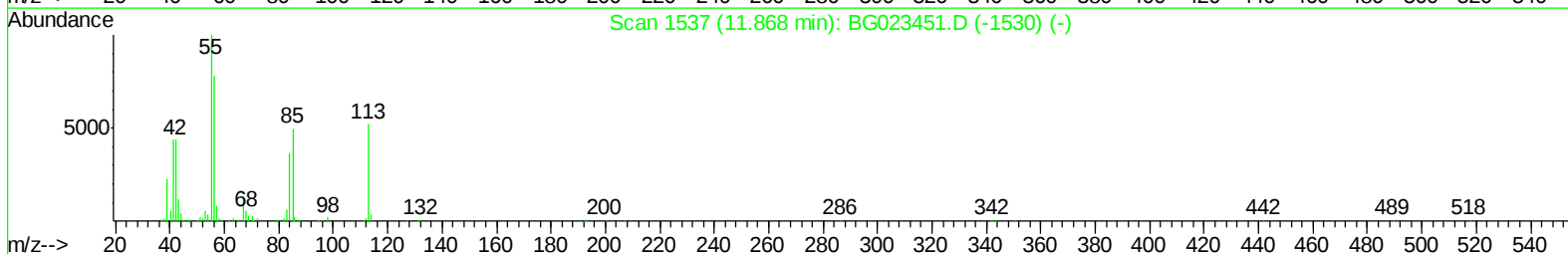
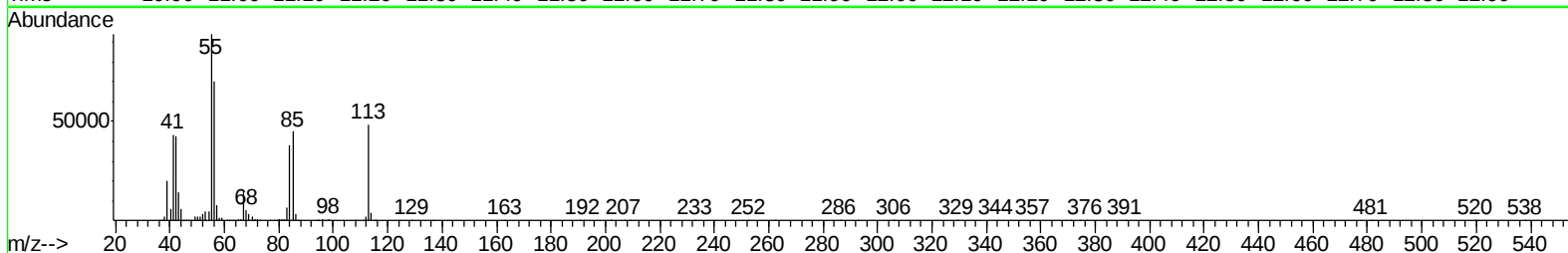
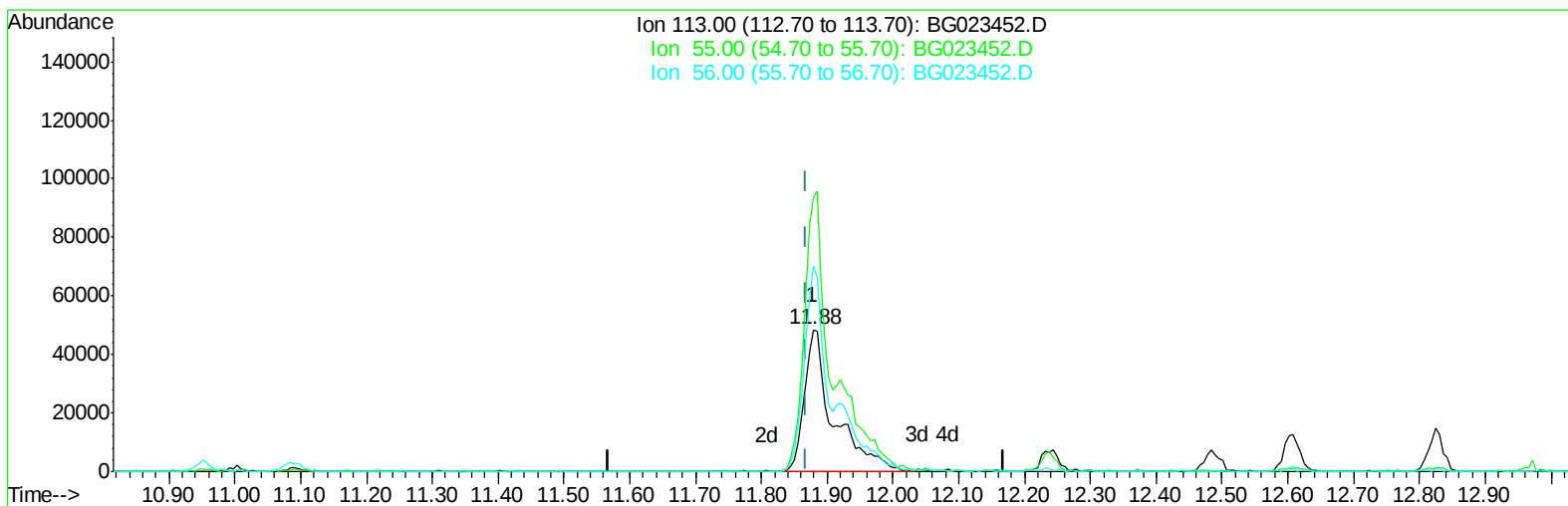
Data Path : Z:\HPCHEM1\BNA G\DATA\BG080416\  
Data File : BG023452.D  
Acq On : 4 Aug 2016 15:08  
Operator : UM/SJ  
Sample : SST04004  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
SSTD04004

Manual Integrations  
APPROVED

sohil  
8/5/2016 6:59:54 PM

Quant Time: Aug 04 15:51:50 2016  
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG080416.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu Aug 04 15:23:03 2016  
Response via : Initial Calibration



TIC: BG023452.D

(32) Caprolactam

11.879min (+0.011) 41.50ng/ul m

response 150151

| Ion    | Exp%   | Act%    |
|--------|--------|---------|
| 113.00 | 100    | 100     |
| 55.00  | 124.50 | 193.41# |
| 56.00  | 83.00  | 144.54# |
| 0.00   | 0.00   | 0.00    |

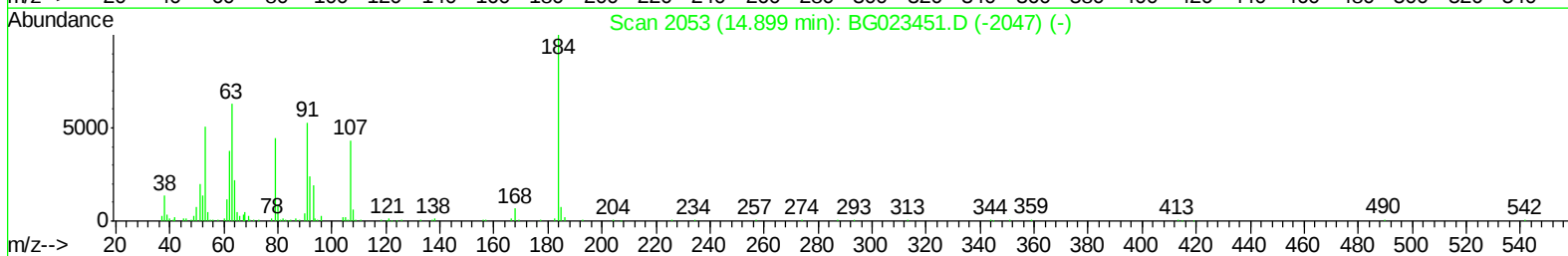
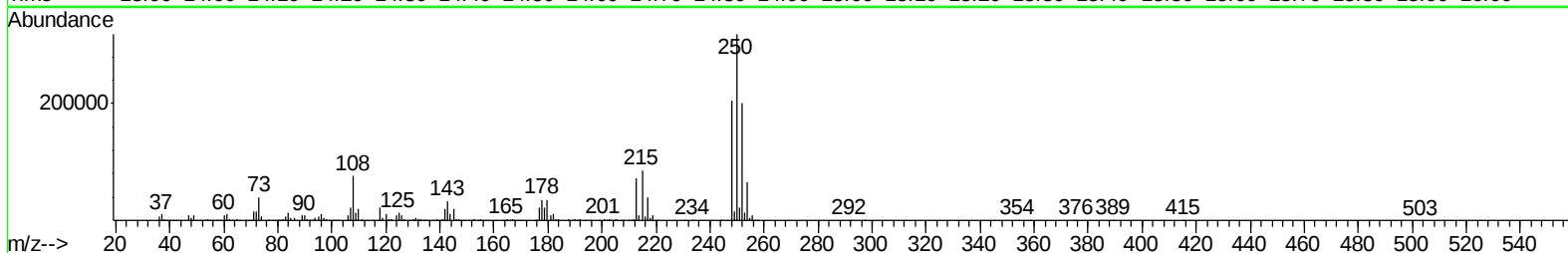
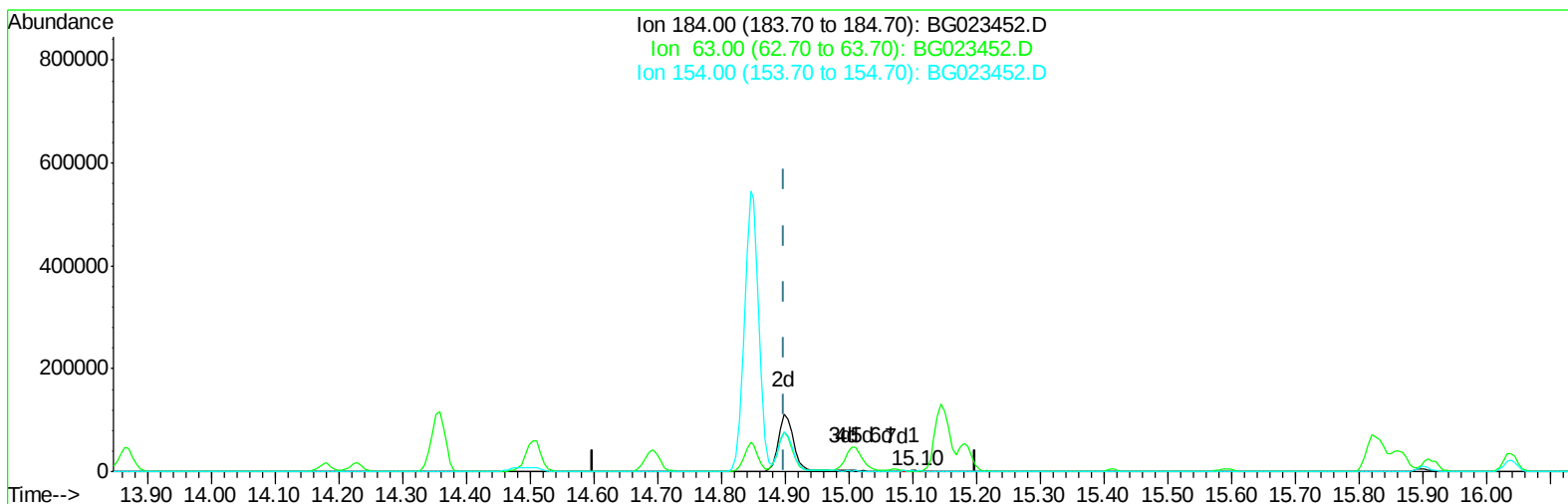
Data Path : Z:\HPCHEM1\BNA G\DATA\BG080416\  
 Data File : BG023452.D  
 Acq On : 4 Aug 2016 15:08  
 Operator : UM/SJ  
 Sample : SST04004  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SST04004

Manual Integrations  
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Quant Time: Aug 04 15:51:50 2016  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG080416.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Aug 04 15:23:03 2016  
 Response via : Initial Calibration



TIC: BG023452.D

(50) 2,4-Dinitrophenol

15.104min (+0.204) 0.47ng/ul

response 2078

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 184.00 | 100   | 100   |
| 63.00  | 50.60 | 52.06 |
| 154.00 | 60.60 | 65.46 |
| 0.00   | 0.00  | 0.00  |

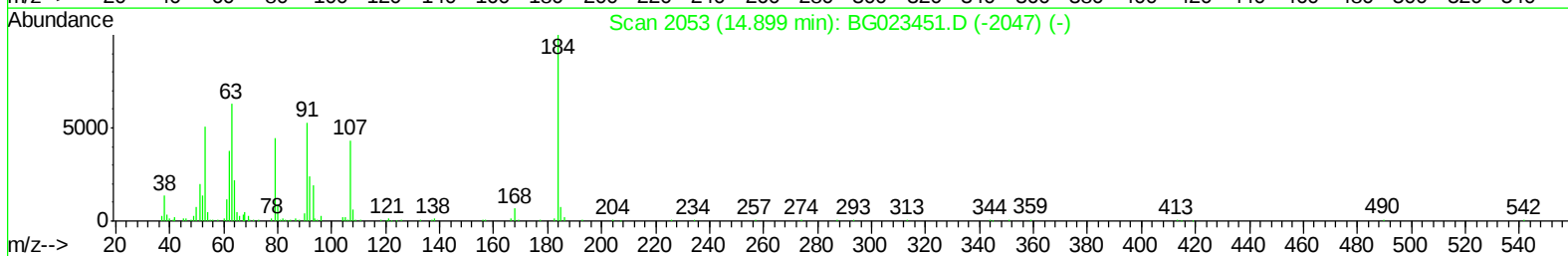
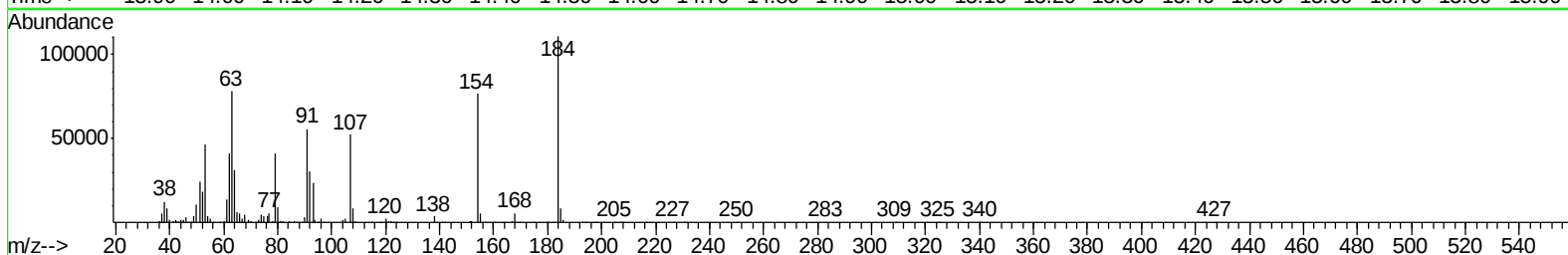
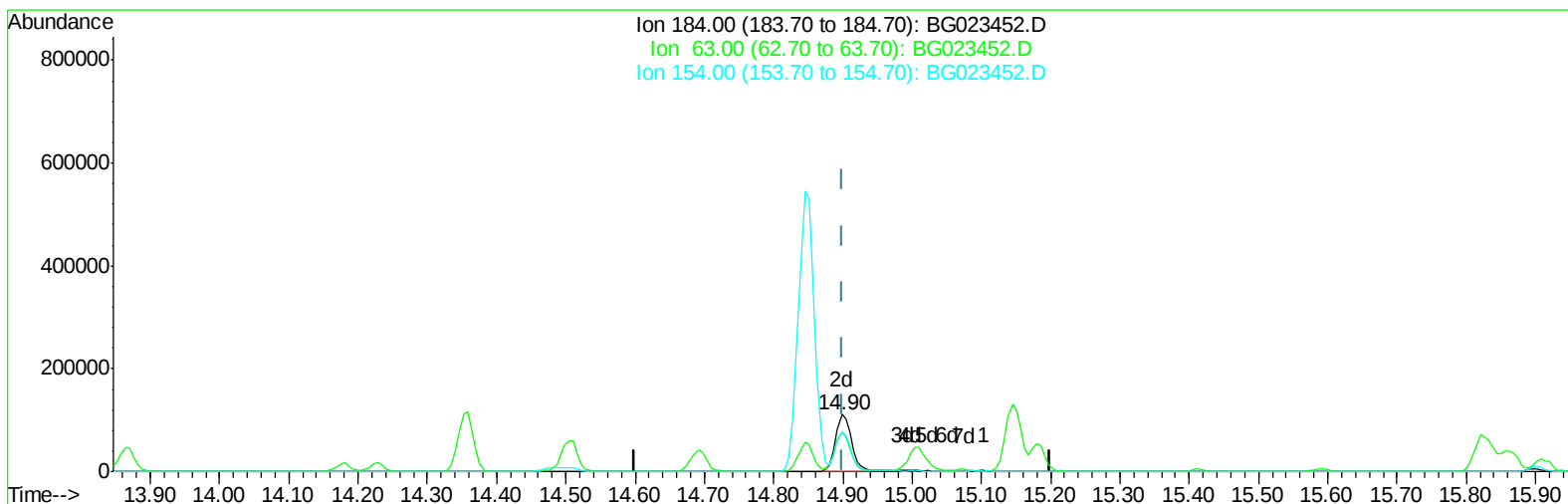
Data Path : Z:\HPCHEM1\BNA G\DATA\BG080416\  
Data File : BG023452.D  
Acq On : 4 Aug 2016 15:08  
Operator : UM/SJ  
Sample : SST04004  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
SSTD04004

Manual Integrations  
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8/5/2016 6:59:54 PM

Quant Time: Aug 04 15:51:50 2016  
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG080416.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu Aug 04 15:23:03 2016  
Response via : Initial Calibration



TIC: BG023452.D

(50) 2,4-Dinitrophenol

14.898min (-0.001) 40.14ng/ul m

response 178223

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 184.00 | 100   | 100    |
| 63.00  | 50.60 | 70.42# |
| 154.00 | 60.60 | 69.14  |
| 0.00   | 0.00  | 0.00   |

Data Path : Z:\HPCHEM1\BNA G\DATA\BG080416\  
 Data File : BG023452.D  
 Acq On : 4 Aug 2016 15:08  
 Operator : UM/SJ  
 Sample : SSTD04004  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SSTD04004

Manual Integrations  
 APPROVED

sohil  
 8/5/2016 6:59:54 PM

Quant Time: Aug 04 15:56:11 2016  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG080416.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Aug 04 15:23:03 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.12  | 152  | 104367   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.95 | 136  | 501984   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.78 | 164  | 387373   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.54 | 188  | 981629   | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.86 | 240  | 958714   | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 25.24 | 264  | 938189   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |       |       |      |
|--------------------------------|-------|-----|---------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.48  | 96  | 37382   | 16.20 | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.27  | 99  | 432271  | 40.18 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.43  | 67  | 274643  | 38.51 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.65  | 132 | 287235  | 39.74 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.84  | 113 | 337674  | 40.33 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.29  | 128 | 157887  | 39.32 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 10.02 | 143 | 185898  | 39.63 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.57 | 165 | 356491  | 40.44 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 11.09 | 131 | 441277  | 48.34 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 14.18 | 166 | 1240510 | 38.52 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.48 | 160 | 1383610 | 37.80 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.99 | 143 | 218976  | 38.53 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.78 | 176 | 1108417 | 38.06 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.90 | 200 | 260594  | 38.58 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.65 | 188 | 1698297 | 36.96 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.93 | 212 | 1877135 | 37.94 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 25.00 | 264 | 1703497 | 38.68 | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |         |       |        | Ovalue |
|--------------------------------|-------|-----|---------|-------|--------|--------|
| 2) 1,4-Dioxane                 | 3.53  | 88  | 38617   | 15.64 | ng/uL# | 76     |
| 4) Benzaldehyde                | 7.25  | 77  | 276313  | 41.35 | ng/ul  | 84     |
| 6) Phenol                      | 7.30  | 94  | 445256  | 39.76 | ng/ul# | 73     |
| 8) Bis(2-Chloroethyl)ether     | 7.53  | 93  | 326012  | 38.73 | ng/ul  | 92     |
| 10) 2-Chlorophenol             | 7.68  | 128 | 299078  | 40.27 | ng/ul# | 82     |
| 11) 2-Methylphenol             | 8.57  | 108 | 336074  | 40.63 | ng/ul  | 92     |
| 12) 2,2'-oxybis(1-Chloropropan | 8.65  | 45  | 446727  | 39.23 | ng/ul  | 98     |
| 14) Acetophenone               | 8.95  | 105 | 547834  | 37.60 | ng/ul# | 79     |
| 15) N-Nitroso-di-n-propylamine | 8.92  | 70  | 323017  | 33.60 | ng/ul# | 86     |
| 16) 4-Methylphenol             | 8.89  | 108 | 387544  | 42.09 | ng/ul  | 97     |
| 17) Hexachloroethane           | 9.21  | 117 | 123744  | 35.21 | ng/ul# | 85     |
| 20) Nitrobenzene               | 9.34  | 77  | 462313  | 35.66 | ng/ul# | 85     |
| 21) Isophorone                 | 9.86  | 82  | 883157  | 35.72 | ng/ul  | 95     |
| 23) 2-Nitrophenol              | 10.06 | 139 | 201478  | 40.28 | ng/ul# | 63     |
| 24) 2,4-Dimethylphenol         | 10.11 | 107 | 435643  | 37.91 | ng/ul  | 86     |
| 25) Bis(2-Chloroethoxy)methane | 10.35 | 93  | 494273  | 36.16 | ng/ul# | 95     |
| 27) 2,4-Dichlorophenol         | 10.60 | 162 | 356129  | 40.81 | ng/ul  | 99     |
| 28) Naphthalene                | 11.00 | 128 | 992275  | 39.31 | ng/ul  | 99     |
| 30) 4-Chloroaniline            | 11.11 | 127 | 439762  | 46.62 | ng/ul  | 98     |
| 31) Hexachlorobutadiene        | 11.28 | 225 | 219686  | 31.32 | ng/ul  | 97     |
| 32) Caprolactam                | 11.88 | 113 | 150151m | 41.50 | ng/ul  |        |
| 33) 4-Chloro-3-methylphenol    | 12.24 | 107 | 456586  | 39.85 | ng/ul  | 85     |
| 34) 2-Methylnaphthalene        | 12.61 | 142 | 814735  | 39.01 | ng/ul  | 96     |

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 Sample : SSTD04004  
 Misc :  
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Instrument :  
 BNA\_G  
 ClientSampleId :  
 SSTD04004

Manual Integrations  
 APPROVED

sohil  
 8/5/2016 6:59:54 PM

Quant Time: Aug 04 15:56:11 2016  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG080416.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Aug 04 15:23:03 2016  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| 36) 1,2,4,5-Tetrachlorobenzene | 12.97 | 216  | 468332   | 36.24 | ng/ul  | 99       |
| 37) Hexachlorocyclopentadiene  | 12.95 | 237  | 264138   | 31.42 | ng/ul  | 95       |
| 38) 2,4,6-Trichlorophenol      | 13.21 | 196  | 335637   | 37.51 | ng/ul  | 99       |
| 39) 2,4,5-Trichlorophenol      | 13.29 | 196  | 350719   | 38.42 | ng/ul  | 99       |
| 40) 1,1'-Biphenyl              | 13.61 | 154  | 1091921  | 37.58 | ng/ul  | 99       |
| 41) 2-Chloronaphthalene        | 13.66 | 162  | 853250   | 36.44 | ng/ul  | 95       |
| 42) 2-Nitroaniline             | 13.86 | 65   | 377764   | 36.26 | ng/ul# | 65       |
| 44) Dimethylphthalate          | 14.23 | 163  | 1215088  | 37.24 | ng/ul  | 100      |
| 45) 2,6-Dinitrotoluene         | 14.36 | 165  | 279831   | 39.52 | ng/ul# | 84       |
| 47) Acenaphthylene             | 14.50 | 152  | 1442621  | 38.91 | ng/ul  | 97       |
| 48) 3-Nitroaniline             | 14.69 | 138  | 278630   | 46.08 | ng/ul# | 62       |
| 49) Acenaphthene               | 14.85 | 153  | 979717   | 39.10 | ng/ul  | 97       |
| 50) 2,4-Dinitrophenol          | 14.90 | 184  | 178223m  | 40.14 | ng/ul  |          |
| 52) 4-Nitrophenol              | 15.01 | 109  | 220876   | 32.64 | ng/ul# | 76       |
| 53) Dibenzofuran               | 15.18 | 168  | 1418106  | 38.37 | ng/ul# | 87       |
| 54) 2,4-Dinitrotoluene         | 15.14 | 165  | 411840   | 38.19 | ng/ul# | 70       |
| 55) 2,3,4,6-Tetrachlorophenol  | 15.41 | 232  | 363114   | 39.37 | ng/ul  | 98       |
| 56) Diethylphthalate           | 15.59 | 149  | 1247647  | 35.95 | ng/ul# | 92       |
| 58) Fluorene                   | 15.83 | 166  | 1169229  | 38.36 | ng/ul  | 98       |
| 59) 4-Chlorophenyl-phenylether | 15.82 | 204  | 604334   | 36.19 | ng/ul  | 95       |
| 60) 4-Nitroaniline             | 15.86 | 138  | 306834   | 41.28 | ng/ul# | 61       |
| 63) 4,6-Dinitro-2-methylphenol | 15.91 | 198  | 278439   | 38.99 | ng/ul# | 82       |
| 64) N-Nitrosodiphenylamine     | 16.04 | 169  | 1089273  | 38.41 | ng/ul  | 98       |
| 65) 4-Bromophenyl-phenylether  | 16.72 | 248  | 446785   | 39.56 | ng/ul  | 99       |
| 66) Hexachlorobenzene          | 16.84 | 284  | 479098   | 41.42 | ng/ul  | 97       |
| 67) Atrazine                   | 16.99 | 200  | 468743   | 38.75 | ng/ul  | 98       |
| 68) Pentachlorophenol          | 17.19 | 266  | 275528   | 38.40 | ng/ul  | 91       |
| 69) Phenanthrene               | 17.59 | 178  | 1924087  | 38.05 | ng/ul  | 93       |
| 71) Anthracene                 | 17.68 | 178  | 1988616  | 37.53 | ng/ul# | 95       |
| 72) Carbazole                  | 17.95 | 167  | 1763406  | 42.30 | ng/ul# | 95       |
| 73) Di-n-butylphthalate        | 18.49 | 149  | 2022189  | 34.98 | ng/ul# | 91       |
| 74) Fluoranthene               | 19.60 | 202  | 2217452  | 41.75 | ng/ul  | 97       |
| 77) Pyrene                     | 19.96 | 202  | 2191509  | 37.60 | ng/ul  | 98       |
| 78) Butylbenzylphthalate       | 20.84 | 149  | 925732   | 36.57 | ng/ul# | 83       |
| 79) 3,3'-Dichlorobenzidine     | 21.75 | 252  | 752748   | 39.36 | ng/ul# | 96       |
| 80) Benzo(a)anthracene         | 21.84 | 228  | 2082692  | 36.59 | ng/ul  | 92       |
| 81) Bis(2-ethylhexyl)phthalate | 21.72 | 149  | 1241458  | 35.90 | ng/ul# | 94       |
| 82) Chrysene                   | 21.91 | 228  | 1906237  | 36.91 | ng/ul# | 93       |
| 84) Di-n-octyl phthalate       | 22.98 | 149  | 2046161  | 39.35 | ng/ul  | 100      |
| 85) Benzo(b)fluoranthene       | 24.16 | 252  | 2103015  | 36.85 | ng/ul# | 94       |
| 86) Benzo(k)fluoranthene       | 24.23 | 252  | 2053940  | 37.97 | ng/ul# | 90       |
| 88) Benzo(a)pyrene             | 25.08 | 252  | 2034849  | 37.41 | ng/ul# | 95       |
| 89) Indeno(1,2,3-cd)pyrene     | 29.10 | 276  | 2418509  | 39.48 | ng/ul# | 88       |
| 90) Dibenzo(a,h)anthracene     | 29.17 | 278  | 2055399  | 40.74 | ng/ul# | 91       |
| 91) Benzo(g,h,i)perylene       | 30.31 | 276  | 1995481  | 39.42 | ng/ul# | 86       |

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

