

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY030320\  
 Data File : VY001832.D  
 Acq On : 03 Mar 2020 14:13  
 Operator : SY/MD  
 Sample : VY0303SBS01  
 Misc : 5.00G/5ML/MSVOA Y/SOIL  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY0303SBS01

Manual Integrations  
 APPROVED

MMDadoda  
 3/4/2020 2:02:11 PM

Quant Time: Mar 04 04:09:43 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y021720S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Feb 17 12:19:53 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.81  | 168  | 168539   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.71  | 114  | 306587   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.50 | 117  | 274599   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.43 | 152  | 132535   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.16   | 65  | 90885    | 50.13 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 100.26% |      |
| 35) Dibromofluoromethane  | 7.74   | 113 | 84548    | 48.15 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 96.30%  |      |
| 50) Toluene-d8            | 10.19  | 98  | 348389   | 50.64 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 101.28% |      |
| 62) 4-Bromofluorobenzene  | 12.49  | 95  | 124931   | 46.74 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 93.48%  |      |

## Target Compounds

|                               |      |     |        |         |        | Qvalue |
|-------------------------------|------|-----|--------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.91 | 85  | 29955  | 18.233  | ug/l   | 97     |
| 3) Chloromethane              | 2.13 | 50  | 41521  | 18.790  | ug/l   | 99     |
| 4) Vinyl Chloride             | 2.26 | 62  | 41255  | 18.510  | ug/l   | 98     |
| 5) Bromomethane               | 2.66 | 94  | 27071  | 19.434  | ug/l   | 93     |
| 6) Chloroethane               | 2.80 | 64  | 27077  | 19.715  | ug/l   | 100    |
| 7) Trichlorofluoromethane     | 3.15 | 101 | 61121  | 21.427  | ug/l   | 96     |
| 8) Diethyl Ether              | 3.55 | 74  | 24445  | 21.738  | ug/l   | 98     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.93 | 101 | 39151  | 21.836  | ug/l   | 98     |
| 10) Methyl Iodide             | 4.11 | 142 | 42522  | 19.378  | ug/l   | 99     |
| 11) Tert butyl alcohol        | 4.99 | 59  | 24501  | 101.630 | ug/l   | 100    |
| 12) 1,1-Dichloroethene        | 3.90 | 96  | 37478  | 20.495  | ug/l   | 98     |
| 13) Acrolein                  | 3.75 | 56  | 14279  | 77.988  | ug/l   | 99     |
| 14) Allyl chloride            | 4.50 | 41  | 70911  | 21.788  | ug/l   | 98     |
| 15) Acrylonitrile             | 5.19 | 53  | 67023  | 116.277 | ug/l   | 98     |
| 16) Acetone                   | 3.97 | 43  | 57251  | 91.269  | ug/l   | 96     |
| 17) Carbon Disulfide          | 4.21 | 76  | 112871 | 18.488  | ug/l   | 99     |
| 18) Methyl Acetate            | 4.50 | 43  | 34393  | 25.177  | ug/l   | 100    |
| 19) Methyl tert-butyl Ether   | 5.25 | 73  | 108276 | 21.266  | ug/l   | 100    |
| 20) Methylene Chloride        | 4.74 | 84  | 49629  | 22.274  | ug/l   | 98     |
| 21) trans-1,2-Dichloroethene  | 5.25 | 96  | 44100  | 21.137  | ug/l   | 94     |
| 22) Diisopropyl ether         | 6.15 | 45  | 149414 | 22.355  | ug/l   | 99     |
| 23) Vinyl Acetate             | 6.09 | 43  | 459495 | 105.398 | ug/l   | 98     |
| 24) 1,1-Dichloroethane        | 6.05 | 63  | 78008  | 21.838  | ug/l   | 98     |
| 25) 2-Butanone                | 7.02 | 43  | 87761  | 102.990 | ug/l   | 99     |
| 26) 2,2-Dichloropropane       | 7.01 | 77  | 64968  | 20.904  | ug/l   | 100    |
| 27) cis-1,2-Dichloroethene    | 7.01 | 96  | 50064  | 21.739  | ug/l   | 99     |
| 28) Bromochloromethane        | 7.36 | 49  | 32419  | 21.786  | ug/l   | 95     |
| 29) Tetrahydrofuran           | 7.37 | 42  | 57394  | 111.435 | ug/l   | 98     |
| 30) Chloroform                | 7.53 | 83  | 74628  | 21.381  | ug/l   | 98     |
| 31) Cyclohexane               | 7.80 | 56  | 76635  | 20.121  | ug/l # | 86     |
| 32) 1,1,1-Trichloroethane     | 7.72 | 97  | 62191  | 21.200  | ug/l   | 99     |
| 36) 1,1-Dichloropropene       | 7.94 | 75  | 60304  | 20.592  | ug/l   | 100    |
| 37) Ethyl Acetate             | 7.10 | 43  | 38079  | 21.786  | ug/l   | 98     |
| 38) Carbon Tetrachloride      | 7.92 | 117 | 52361  | 20.356  | ug/l   | 99     |

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 Misc : 5.00G/5ML/MSVOA Y/SOIL  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleID :  
 VY0303SBS01

Manual Integrations  
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MMDadoda  
 3/4/2020 2:02:11 PM

Quant Time: Mar 04 04:09:43 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y021720S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Feb 17 12:19:53 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.19  | 83   | 77357    | 19.911  | ug/l   | 99       |
| 40) Benzene                    | 8.18  | 78   | 181902   | 21.120  | ug/l   | 98       |
| 41) Methacrylonitrile          | 7.34  | 41   | 20429m   | 23.278  | ug/l   |          |
| 42) 1,2-Dichloroethane         | 8.25  | 62   | 49953    | 21.289  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.29  | 43   | 71526    | 21.568  | ug/l   | 99       |
| 44) Trichloroethene            | 8.96  | 130  | 45043    | 20.950  | ug/l   | 94       |
| 45) 1,2-Dichloropropane        | 9.23  | 63   | 47194    | 21.879  | ug/l   | 98       |
| 46) Dibromomethane             | 9.32  | 93   | 24009    | 21.281  | ug/l   | 98       |
| 47) Bromodichloromethane       | 9.51  | 83   | 57138    | 20.984  | ug/l   | 94       |
| 48) Methyl methacrylate        | 9.30  | 41   | 31069    | 20.715  | ug/l   | 98       |
| 49) 1,4-Dioxane                | 9.31  | 88   | 6632     | 416.201 | ug/l   | 96       |
| 51) 4-Methyl-2-Pentanone       | 10.08 | 43   | 184962   | 108.551 | ug/l   | 98       |
| 52) Toluene                    | 10.25 | 92   | 112667   | 20.971  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.47 | 75   | 63022    | 20.936  | ug/l   | 96       |
| 54) cis-1,3-Dichloropropene    | 9.94  | 75   | 74351    | 21.461  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 10.66 | 97   | 35815    | 21.529  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 10.52 | 69   | 53293    | 21.354  | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 10.80 | 76   | 63929    | 21.628  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.80  | 63   | 134564   | 134.544 | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.84 | 43   | 133374   | 104.323 | ug/l   | 98       |
| 60) Dibromochloromethane       | 10.99 | 129  | 37808    | 20.614  | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 11.10 | 107  | 33647    | 21.391  | ug/l   | 98       |
| 64) Tetrachloroethene          | 10.73 | 164  | 36796    | 21.346  | ug/l   | 97       |
| 65) Chlorobenzene              | 11.52 | 112  | 117180   | 21.374  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.60 | 131  | 38868    | 21.017  | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.60 | 91   | 216649   | 21.295  | ug/l   | 99       |
| 68) m/p-Xylenes                | 11.71 | 106  | 161746   | 42.560  | ug/l   | 99       |
| 69) o-Xylene                   | 12.03 | 106  | 76610    | 21.204  | ug/l   | 97       |
| 70) Styrene                    | 12.05 | 104  | 131416   | 20.929  | ug/l   | 99       |
| 71) Bromoform                  | 12.22 | 173  | 21659    | 20.493  | ug/l # | 96       |
| 73) Isopropylbenzene           | 12.34 | 105  | 205483   | 20.351  | ug/l   | 100      |
| 74) N-amyl acetate             | 12.15 | 43   | 66647    | 20.683  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.59 | 83   | 45345    | 21.033  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.64 | 75   | 33351m   | 21.936  | ug/l   |          |
| 77) Bromobenzene               | 12.61 | 156  | 43502    | 19.875  | ug/l   | 98       |
| 78) n-propylbenzene            | 12.68 | 91   | 259093   | 21.070  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.77 | 91   | 143567   | 20.816  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.82 | 105  | 175191   | 20.961  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.39 | 75   | 15800    | 19.716  | ug/l   | 95       |
| 82) 4-Chlorotoluene            | 12.86 | 91   | 150928   | 20.749  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 13.08 | 119  | 146688   | 20.985  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.13 | 105  | 174663   | 20.962  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.26 | 105  | 215516   | 20.963  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.38 | 119  | 187148   | 20.954  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.38 | 146  | 88464    | 20.840  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene        | 13.45 | 146  | 89488    | 20.855  | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.70 | 91   | 192645   | 21.109  | ug/l   | 99       |
| 90) Hexachloroethane           | 13.97 | 117  | 34286    | 20.375  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene        | 13.75 | 146  | 80860    | 20.641  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.36 | 75   | 7090     | 19.927  | ug/l   | 97       |

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Misc : 5.00G/5ML/MSVOA Y/SOIL  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY0303SBSD01

Manual Integrations  
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Quant Time: Mar 04 04:09:43 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y021720S.M  
Quant Title : SW846 8260  
QLast Update : Mon Feb 17 12:19:53 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.02 | 180  | 54214    | 20.883 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 15.12 | 225  | 26087    | 20.206 | ug/l  | 98       |
| 95) Naphthalene            | 15.25 | 128  | 126272   | 21.096 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.43 | 180  | 47811    | 20.934 | ug/l  | 99       |

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

