

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX090519\  
 Data File : VX012103.D  
 Acq On : 05 Sep 2019 16:14  
 Operator : SY/SP  
 Sample : VX0905SBSD01  
 Misc : 5.00µ/5.0mL/MSVOA X/SOIL  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0905SBSD01

Manual Integrations  
 APPROVED

MMDadoda  
 9/6/2019 12:31:35 PM

Quant Time: Sep 06 06:40:30 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X090319S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 03 15:26:48 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 109737   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 209804   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 196134   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 98865    | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 6.05   | 65  | 88405    | 58.39 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 116.78% |      |
| 35) Dibromofluoromethane    | 5.48   | 113 | 66419    | 51.48 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 102.96% |      |
| 50) Toluene-d8              | 8.71   | 98  | 252663   | 53.37 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 106.74% |      |
| 62) 4-Bromofluorobenzene    | 11.14  | 95  | 113272   | 51.44 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 102.88% |      |

| Target Compounds              |      |     |        |         |        | Qvalue |
|-------------------------------|------|-----|--------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.19 | 85  | 19217  | 18.990  | ug/l   | 99     |
| 3) Chloromethane              | 1.31 | 50  | 20880  | 20.147  | ug/l   | 100    |
| 4) Vinyl Chloride             | 1.39 | 62  | 19667  | 20.170  | ug/l   | 95     |
| 5) Bromomethane               | 1.62 | 94  | 10862  | 22.456  | ug/l   | 99     |
| 6) Chloroethane               | 1.70 | 64  | 13055  | 21.537  | ug/l   | 100    |
| 7) Trichlorofluoromethane     | 1.91 | 101 | 30617  | 20.217  | ug/l   | 100    |
| 8) Diethyl Ether              | 2.17 | 74  | 12202  | 23.315  | ug/l   | 93     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.37 | 101 | 21253  | 18.947  | ug/l # | 83     |
| 10) Methyl Iodide             | 2.50 | 142 | 9220   | 13.972  | ug/l   | 96     |
| 11) Tert butyl alcohol        | 3.04 | 59  | 17903  | 123.100 | ug/l   | 95     |
| 12) 1,1-Dichloroethene        | 2.36 | 96  | 20192  | 18.686  | ug/l   | 86     |
| 13) Acrolein                  | 2.28 | 56  | 5047   | 121.215 | ug/l   | 96     |
| 14) Allyl chloride            | 2.71 | 41  | 40726  | 20.829  | ug/l   | 98     |
| 15) Acrylonitrile             | 3.13 | 53  | 37904  | 115.257 | ug/l   | 97     |
| 16) Acetone                   | 2.43 | 43  | 35806  | 98.935  | ug/l   | 98     |
| 17) Carbon Disulfide          | 2.55 | 76  | 51533  | 16.318  | ug/l   | 99     |
| 18) Methyl Acetate            | 2.76 | 43  | 21925  | 25.716  | ug/l   | 94     |
| 19) Methyl tert-butyl Ether   | 3.18 | 73  | 80592  | 22.909  | ug/l   | 97     |
| 20) Methylene Chloride        | 2.84 | 84  | 31622  | 21.758  | ug/l   | 95     |
| 21) trans-1,2-Dichloroethene  | 3.15 | 96  | 24799  | 19.557  | ug/l   | 93     |
| 22) Diisopropyl ether         | 3.84 | 45  | 90181  | 22.628  | ug/l   | 95     |
| 23) Vinyl Acetate             | 3.80 | 43  | 287466 | 111.505 | ug/l   | 97     |
| 24) 1,1-Dichloroethane        | 3.68 | 63  | 48873  | 21.144  | ug/l   | 97     |
| 25) 2-Butanone                | 4.65 | 43  | 52937  | 114.908 | ug/l   | 93     |
| 26) 2,2-Dichloropropane       | 4.56 | 77  | 40687  | 19.066  | ug/l   | 98     |
| 27) cis-1,2-Dichloroethene    | 4.58 | 96  | 31503  | 21.194  | ug/l   | 94     |
| 28) Bromochloromethane        | 5.00 | 49  | 21873  | 23.707  | ug/l # | 78     |
| 29) Tetrahydrofuran           | 5.12 | 42  | 33408  | 120.361 | ug/l   | 98     |
| 30) Chloroform                | 5.19 | 83  | 53351  | 21.511  | ug/l   | 99     |
| 31) Cyclohexane               | 5.56 | 56  | 34647  | 18.664  | ug/l   | 96     |
| 32) 1,1,1-Trichloroethane     | 5.48 | 97  | 44975  | 20.821  | ug/l   | 96     |
| 36) 1,1-Dichloropropene       | 5.79 | 75  | 33959  | 18.378  | ug/l   | 95     |
| 37) Ethyl Acetate             | 4.82 | 43  | 22648  | 22.539  | ug/l   | 98     |
| 38) Carbon Tetrachloride      | 5.77 | 117 | 36941  | 18.972  | ug/l   | 95     |

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 Sample : VX0905SBSD01  
 Misc : 5.00g/5.0mL/MSVOA X/SOIL  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleID :  
 VX0905SBSD01

Manual Integrations  
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MMDadoda  
 9/6/2019 12:31:35 PM

Quant Time: Sep 06 06:40:30 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X090319S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 03 15:26:48 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 7.45  | 83   | 37412    | 17.444  | ug/l   | 94       |
| 40) Benzene                    | 6.13  | 78   | 105273   | 19.845  | ug/l   | 97       |
| 41) Methacrylonitrile          | 5.03  | 41   | 13702    | 22.866  | ug/l   | 96       |
| 42) 1,2-Dichloroethane         | 6.18  | 62   | 42526    | 22.276  | ug/l   | 97       |
| 43) Isopropyl Acetate          | 6.43  | 43   | 46209    | 22.616  | ug/l   | 98       |
| 44) Trichloroethene            | 7.20  | 130  | 28542    | 19.948  | ug/l   | 89       |
| 45) 1,2-Dichloropropane        | 7.50  | 63   | 28940    | 21.115  | ug/l   | 99       |
| 46) Dibromomethane             | 7.65  | 93   | 16866    | 21.080  | ug/l # | 74       |
| 47) Bromodichloromethane       | 7.89  | 83   | 41866    | 20.586  | ug/l   | 96       |
| 48) Methyl methacrylate        | 7.76  | 41   | 22901    | 22.292  | ug/l   | 97       |
| 49) 1,4-Dioxane                | 7.73  | 88   | 6235     | 445.209 | ug/l   | 94       |
| 51) 4-Methyl-2-Pentanone       | 8.64  | 43   | 121932   | 117.328 | ug/l   | 98       |
| 52) Toluene                    | 8.78  | 92   | 69251    | 20.064  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene      | 9.04  | 75   | 42355    | 20.116  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene    | 8.43  | 75   | 46663    | 19.930  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane      | 9.21  | 97   | 24641    | 21.542  | ug/l   | 94       |
| 56) Ethyl methacrylate         | 9.17  | 69   | 35475    | 21.652  | ug/l   | 95       |
| 57) 1,3-Dichloropropane        | 9.37  | 76   | 42807    | 21.687  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 8.31  | 63   | 84603    | 114.534 | ug/l   | 94       |
| 59) 2-Hexanone                 | 9.49  | 43   | 86849    | 114.530 | ug/l   | 98       |
| 60) Dibromochloromethane       | 9.58  | 129  | 28683    | 21.040  | ug/l   | 98       |
| 61) 1,2-Dibromoethane          | 9.67  | 107  | 23423    | 21.192  | ug/l   | 99       |
| 64) Tetrachloroethene          | 9.33  | 164  | 25128    | 20.550  | ug/l # | 83       |
| 65) Chlorobenzene              | 10.14 | 112  | 77868    | 20.122  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.21 | 131  | 29297    | 20.705  | ug/l   | 98       |
| 67) Ethyl Benzene              | 10.25 | 91   | 137717   | 19.523  | ug/l   | 97       |
| 68) m/p-Xylenes                | 10.35 | 106  | 101160   | 38.923  | ug/l   | 87       |
| 69) o-Xylene                   | 10.70 | 106  | 51251    | 20.336  | ug/l   | 91       |
| 70) Styrene                    | 10.71 | 104  | 89485    | 20.443  | ug/l   | 96       |
| 71) Bromoform                  | 10.85 | 173  | 16126    | 20.749  | ug/l # | 98       |
| 73) Isopropylbenzene           | 11.01 | 105  | 136723   | 18.848  | ug/l   | 96       |
| 74) N-amyl acetate             | 10.89 | 43   | 44781    | 20.880  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.26 | 83   | 32166    | 21.270  | ug/l   | 97       |
| 76) 1,2,3-Trichloropropane     | 11.29 | 75   | 25132m   | 20.805  | ug/l   |          |
| 77) Bromobenzene               | 11.25 | 156  | 33098    | 20.401  | ug/l   | 69       |
| 78) n-propylbenzene            | 11.35 | 91   | 164121   | 18.728  | ug/l   | 94       |
| 79) 2-Chlorotoluene            | 11.42 | 91   | 105702   | 19.909  | ug/l   | 90       |
| 80) 1,3,5-Trimethylbenzene     | 11.50 | 105  | 122657   | 19.295  | ug/l   | 93       |
| 81) trans-1,4-Dichloro-2-buten | 11.07 | 75   | 9212     | 18.029  | ug/l   | 91       |
| 82) 4-Chlorotoluene            | 11.51 | 91   | 124202   | 19.627  | ug/l   | 92       |
| 83) tert-Butylbenzene          | 11.76 | 119  | 116016   | 19.148  | ug/l   | 90       |
| 84) 1,2,4-Trimethylbenzene     | 11.80 | 105  | 125813   | 19.257  | ug/l   | 95       |
| 85) sec-Butylbenzene           | 11.94 | 105  | 141861   | 18.851  | ug/l   | 94       |
| 86) p-Isopropyltoluene         | 12.06 | 119  | 129784   | 18.963  | ug/l   | 94       |
| 87) 1,3-Dichlorobenzene        | 12.02 | 146  | 65198    | 20.056  | ug/l   | 92       |
| 88) 1,4-Dichlorobenzene        | 12.09 | 146  | 65645    | 20.195  | ug/l   | 93       |
| 89) n-Butylbenzene             | 12.39 | 91   | 125355   | 18.855  | ug/l   | 95       |
| 90) Hexachloroethane           | 12.59 | 117  | 25243    | 18.472  | ug/l   | 55       |
| 91) 1,2-Dichlorobenzene        | 12.39 | 146  | 62478    | 21.340  | ug/l   | 94       |
| 92) 1,2-Dibromo-3-Chloropropan | 12.99 | 75   | 6748     | 21.324  | ug/l   | 63       |

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Sample : VX0905SBSD01  
Misc : 5.00µ/5.0mL/MSVOA X/SOIL  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0905SBSD01

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9/6/2019 12:31:35 PM

Quant Time: Sep 06 06:40:30 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X090319S.M  
Quant Title : SW846 8260  
QLast Update : Tue Sep 03 15:26:48 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.64 | 180  | 40486    | 19.428 | ug/l  | 95       |
| 94) Hexachlorobutadiene    | 13.78 | 225  | 20998    | 19.989 | ug/l  | 97       |
| 95) Naphthalene            | 13.83 | 128  | 95810    | 21.243 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 14.01 | 180  | 37262    | 20.325 | ug/l  | 95       |

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

