

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U062118\  
 Data File : VU024824.D  
 Acq On : 21 Jun 2018 20:33  
 Operator : MD/SY  
 Sample : J3539-04MS  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 S39-0183MS

Manual Integrations  
 APPROVED

apatel  
 6/22/2018 4:02:12 PM

Quant Time: Jun 22 05:12:21 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U061318W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jun 13 13:55:26 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.99  | 168  | 139180   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.89  | 114  | 235425   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.09  | 117  | 220077   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 11.49 | 152  | 122768   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 5.31   | 65  | 123528   | 54.37 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 108.74% |      |
| 35) Dibromofluoromethane  | 4.89   | 113 | 99382    | 50.86 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 101.72% |      |
| 50) Toluene-d8            | 7.57   | 98  | 321720   | 45.14 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 90.28%  |      |
| 62) 4-Bromofluorobenzene  | 10.31  | 95  | 123147   | 43.52 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 87.04%  |      |

## Target Compounds

|                               |      |     |         |        |        | Qvalue |
|-------------------------------|------|-----|---------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.20 | 85  | 74882   | 42.98  | ug/l   | 100    |
| 3) Chloromethane              | 1.33 | 50  | 97030   | 54.52  | ug/l   | 100    |
| 4) Vinyl Chloride             | 1.40 | 62  | 93944   | 51.18  | ug/l   | 99     |
| 5) Bromomethane               | 1.62 | 94  | 55084   | 62.08  | ug/l   | 100    |
| 6) Chloroethane               | 1.69 | 64  | 63707   | 62.37  | ug/l   | 99     |
| 7) Trichlorofluoromethane     | 1.89 | 101 | 134533  | 48.03  | ug/l   | 98     |
| 8) Diethyl Ether              | 2.10 | 74  | 60633   | 64.14  | ug/l   | 89     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.29 | 101 | 62293   | 35.85  | ug/l   | 97     |
| 10) Methyl Iodide             | 2.41 | 142 | 80218   | 54.06  | ug/l   | 99     |
| 11) Tert butyl alcohol        | 2.82 | 59  | 132224  | 239.27 | ug/l   | 99     |
| 12) 1,1-Dichloroethene        | 2.28 | 96  | 75221   | 47.46  | ug/l   | 92     |
| 13) Acrolein                  | 2.19 | 56  | 62315   | 214.74 | ug/l   | 100    |
| 14) Allyl chloride            | 2.59 | 41  | 135199m | 45.95  | ug/l   |        |
| 15) Acrylonitrile             | 2.93 | 53  | 300048  | 279.07 | ug/l   | 99     |
| 16) Acetone                   | 2.32 | 43  | 284467  | 233.01 | ug/l   | 99     |
| 17) Carbon Disulfide          | 2.48 | 76  | 208159  | 41.02  | ug/l   | 100    |
| 18) Methyl Acetate            | 2.62 | 43  | 86849   | 33.18  | ug/l   | 98     |
| 19) Methyl tert-butyl Ether   | 3.00 | 73  | 329577  | 55.32  | ug/l   | 97     |
| 20) Methylene Chloride        | 2.70 | 84  | 97784   | 51.05  | ug/l   | 99     |
| 21) trans-1,2-Dichloroethene  | 2.99 | 96  | 82755   | 47.41  | ug/l   | 98     |
| 22) Diisopropyl ether         | 3.57 | 45  | 319140  | 54.71  | ug/l   | 98     |
| 23) Vinyl Acetate             | 3.53 | 43  | 767652  | 146.91 | ug/l   | 99     |
| 24) 1,1-Dichloroethane        | 3.45 | 63  | 176867  | 52.71  | ug/l   | 100    |
| 25) 2-Butanone                | 4.26 | 43  | 435821  | 265.77 | ug/l   | 95     |
| 26) 2,2-Dichloropropane       | 4.23 | 77  | 31111   | 9.76   | ug/l # | 75     |
| 27) cis-1,2-Dichloroethene    | 4.23 | 96  | 111777  | 55.70  | ug/l   | 91     |
| 28) Bromochloromethane        | 4.55 | 49  | 81944   | 55.44  | ug/l   | 89     |
| 29) Tetrahydrofuran           | 4.64 | 42  | 280634  | 276.35 | ug/l   | 97     |
| 30) Chloroform                | 4.68 | 83  | 187099  | 55.09  | ug/l   | 100    |
| 31) Cyclohexane               | 5.00 | 56  | 117847  | 39.12  | ug/l   | 97     |
| 32) 1,1,1-Trichloroethane     | 4.92 | 97  | 155395  | 49.48  | ug/l   | 98     |
| 36) 1,1-Dichloropropene       | 5.14 | 75  | 112099  | 40.52  | ug/l   | 98     |
| 37) Ethyl Acetate             | 4.38 | 43  | 99809   | 33.10  | ug/l   | 98     |
| 38) Carbon Tetrachloride      | 5.14 | 117 | 130544  | 42.91  | ug/l   | 99     |

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 Quant Title : SW846 8260  
 QLast Update : Wed Jun 13 13:55:26 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 6.42  | 83   | 97549    | 28.26   | ug/l   | 95       |
| 40) Benzene                    | 5.39  | 78   | 376874   | 47.81   | ug/l   | 99       |
| 41) Methacrylonitrile          | 4.55  | 41   | 89264    | 54.91   | ug/l   | 97       |
| 42) 1,2-Dichloroethane         | 5.41  | 62   | 160272   | 53.38   | ug/l   | 100      |
| 43) Isopropyl Acetate          | 5.55  | 43   | 193655   | 37.16   | ug/l   | 99       |
| 44) Trichloroethene            | 6.19  | 130  | 128298   | 57.19   | ug/l   | 97       |
| 45) 1,2-Dichloropropane        | 6.44  | 63   | 106875   | 50.81   | ug/l   | 98       |
| 46) Dibromomethane             | 6.56  | 93   | 78299    | 53.00   | ug/l   | 95       |
| 47) Bromodichloromethane       | 6.76  | 83   | 147582   | 50.17   | ug/l   | 99       |
| 48) Methyl methacrylate        | 6.62  | 41   | 133187   | 52.48   | ug/l   | 96       |
| 49) 1,4-Dioxane                | 6.61  | 88   | 58271    | 1174.07 | ug/l   | 95       |
| 51) 4-Methyl-2-Pentanone       | 7.46  | 43   | 871939   | 266.29  | ug/l   | 99       |
| 52) Toluene                    | 7.64  | 92   | 231471   | 45.64   | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 7.88  | 75   | 124643   | 37.73   | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene    | 7.27  | 75   | 130832   | 37.16   | ug/l   | 100      |
| 55) 1,1,2-Trichloroethane      | 8.07  | 97   | 106993   | 51.90   | ug/l   | 99       |
| 56) Ethyl methacrylate         | 8.02  | 69   | 176132   | 51.05   | ug/l   | 98       |
| 57) 1,3-Dichloropropane        | 8.25  | 76   | 183385   | 52.73   | ug/l   | 99       |
| 59) 2-Hexanone                 | 8.36  | 43   | 695245   | 260.08  | ug/l   | 100      |
| 60) Dibromochloromethane       | 8.48  | 129  | 127803   | 49.72   | ug/l   | 98       |
| 61) 1,2-Dibromoethane          | 8.59  | 107  | 117159   | 51.06   | ug/l   | 97       |
| 64) Tetrachloroethene          | 8.23  | 164  | 76164    | 36.41   | ug/l   | 98       |
| 65) Chlorobenzene              | 9.12  | 112  | 262806   | 46.74   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 9.21  | 131  | 105570   | 49.42   | ug/l   | 97       |
| 67) Ethyl Benzene              | 9.25  | 91   | 427368   | 43.36   | ug/l   | 97       |
| 68) m/p-Xylenes                | 9.38  | 106  | 328993   | 86.93   | ug/l   | 98       |
| 69) o-Xylene                   | 9.78  | 106  | 172640   | 46.09   | ug/l   | 97       |
| 70) Styrene                    | 9.80  | 104  | 279383   | 45.39   | ug/l   | 99       |
| 71) Bromoform                  | 9.96  | 173  | 102340   | 50.41   | ug/l # | 97       |
| 73) Isopropylbenzene           | 10.17 | 105  | 418038   | 44.35   | ug/l   | 98       |
| 74) N-amyl acetate             | 10.01 | 43   | 139395   | 31.09   | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 10.46 | 83   | 186592   | 59.08   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 10.50 | 75   | 150697m  | 55.75   | ug/l   |          |
| 77) Bromobenzene               | 10.45 | 156  | 124048   | 51.99   | ug/l   | 94       |
| 78) n-propylbenzene            | 10.59 | 91   | 452010   | 40.71   | ug/l   | 97       |
| 79) 2-Chlorotoluene            | 10.66 | 91   | 302782   | 46.24   | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 10.78 | 105  | 362900   | 44.42   | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 10.51 | 75   | 35779m   | 30.64   | ug/l   |          |
| 82) 4-Chlorotoluene            | 10.77 | 91   | 341488   | 44.81   | ug/l   | 99       |
| 83) tert-Butylbenzene          | 11.10 | 119  | 364075   | 46.33   | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 11.15 | 105  | 378047   | 45.41   | ug/l   | 100      |
| 85) sec-Butylbenzene           | 11.33 | 105  | 395442   | 40.20   | ug/l   | 98       |
| 86) p-Isopropyltoluene         | 11.48 | 119  | 351751   | 39.93   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 11.42 | 146  | 205046   | 46.51   | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene        | 11.51 | 146  | 204457   | 46.08   | ug/l   | 99       |
| 89) n-Butylbenzene             | 11.89 | 91   | 262474   | 33.56   | ug/l   | 98       |
| 90) Hexachloroethane           | 12.15 | 117  | 68472    | 39.84   | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 11.88 | 146  | 222729   | 50.44   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 12.66 | 75   | 48168    | 55.27   | ug/l   | 93       |
| 93) 1,2,4-Trichlorobenzene     | 13.51 | 180  | 129589   | 47.52   | ug/l   | 100      |

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| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 94) Hexachlorobutadiene    | 13.70 | 225  | 51080    | 33.28 | ug/l  | 98       |
| 95) Naphthalene            | 13.74 | 128  | 515046   | 56.96 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 13.99 | 180  | 143773   | 52.91 | ug/l  | 98       |

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

