

Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR073018\  
 Data File : VR025539.D  
 Acq On : 30 Jul 2018 13:02  
 Operator : SY/MD  
 Sample : VSTD00583  
 Misc : 25mL/MSVOA R/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_R  
 ClientSampleId :  
 VSTD00583

Quant Time: Jul 30 14:29:51 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_R\METHODS\SOMRTR073018WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Mon Jul 30 13:26:14 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.46  | 114  | 625003   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.29 | 117  | 529668   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.22 | 152  | 233914   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |      |      |
|--------------------------------|-------|-----|--------|-------|------|------|
| 4) Vinyl Chloride-d3           | 2.15  | 65  | 193997 | 11.26 | ug/L | 0.00 |
| 7) Chloroethane-d5             | 2.63  | 69  | 158278 | 10.78 | ug/L | 0.00 |
| 11) 1,1-Dichloroethene-d2      | 3.64  | 63  | 456569 | 8.75  | ug/L | 0.00 |
| 20) 2-Butanone-d5              | 6.60  | 46  | 163582 | 30.57 | ug/L | 0.00 |
| 24) Chloroform-d               | 7.21  | 84  | 321333 | 3.77  | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 7.90  | 65  | 111395 | 3.41  | ug/L | 0.00 |
| 32) Benzene-d6                 | 7.86  | 84  | 724885 | 4.09  | ug/L | 0.00 |
| 36) 1,2-Dichloropropane-d6     | 8.90  | 67  | 187034 | 3.64  | ug/L | 0.00 |
| 41) Toluene-d8                 | 9.97  | 98  | 736274 | 4.73  | ug/L | 0.00 |
| 43) trans-1,3-Dichloropropene- | 10.24 | 79  | 48402  | 3.55  | ug/L | 0.00 |
| 46) 2-Hexanone-d5              | 10.59 | 63  | 167970 | 38.15 | ug/L | 0.00 |
| 57) 1,1,2,2-Tetrachloroethane- | 12.36 | 84  | 85584  | 3.72  | ug/L | 0.00 |
| 64) 1,2-Dichlorobenzene-d4     | 13.51 | 152 | 177214 | 4.59  | ug/L | 0.00 |

## Target Compounds

|                                |      |     |        |       |      | Qvalue |
|--------------------------------|------|-----|--------|-------|------|--------|
| 2) Dichlorodifluoromethane     | 1.83 | 85  | 184197 | 5.22  | ug/L | 99     |
| 3) Chloromethane               | 2.01 | 50  | 239823 | 11.46 | ug/L | 96     |
| 5) Vinyl chloride              | 2.16 | 62  | 244164 | 12.98 | ug/L | 97     |
| 6) Bromomethane                | 2.53 | 94  | 143847 | 13.00 | ug/L | 91     |
| 8) Chloroethane                | 2.67 | 64  | 136429 | 11.65 | ug/L | 99     |
| 9) Trichlorofluoromethane      | 2.98 | 101 | 343572 | 11.18 | ug/L | # 73   |
| 10) 1,1,2-Trichloro-1,2,2-trif | 3.68 | 101 | 220932 | 11.81 | ug/L | 95     |
| 12) 1,1-Dichloroethene         | 3.65 | 96  | 223097 | 11.94 | ug/L | 78     |
| 13) Acetone                    | 3.71 | 43  | 133123 | 55.21 | ug/L | 87     |
| 14) Carbon disulfide           | 3.97 | 76  | 541319 | 12.73 | ug/L | 98     |
| 15) Methyl Acetate             | 4.21 | 43  | 42086  | 7.80  | ug/L | 92     |
| 16) Methylene chloride         | 4.41 | 84  | 179323 | 9.80  | ug/L | 89     |
| 17) Methyl tert-butyl Ether    | 4.91 | 73  | 223965 | 3.68  | ug/L | 96     |
| 18) trans-1,2-Dichloroethene   | 4.89 | 96  | 214433 | 4.61  | ug/L | 84     |
| 19) 1,1-Dichloroethane         | 5.70 | 63  | 315764 | 3.96  | ug/L | 98     |
| 21) 2-Butanone                 | 6.69 | 43  | 195650 | 34.83 | ug/L | 99     |
| 22) cis-1,2-Dichloroethene     | 6.68 | 96  | 199475 | 4.68  | ug/L | 84     |
| 23) Bromochloromethane         | 7.05 | 128 | 63480  | 4.62  | ug/L | # 83   |
| 25) Chloroform                 | 7.24 | 83  | 305509 | 3.99  | ug/L | 98     |
| 27) 1,2-Dichloroethane         | 8.00 | 62  | 125417 | 3.65  | ug/L | # 96   |
| 29) 1,1,1-Trichloroethane      | 7.44 | 97  | 232888 | 4.32  | ug/L | 99     |
| 30) Cyclohexane                | 7.52 | 56  | 299207 | 5.18  | ug/L | 90     |
| 31) Carbon tetrachloride       | 7.64 | 117 | 249179 | 5.23  | ug/L | 98     |
| 33) Benzene                    | 7.91 | 78  | 818006 | 4.48  | ug/L | 100    |
| 34) Trichloroethene            | 8.71 | 95  | 199307 | 4.29  | ug/L | 88     |
| 35) Methylcyclohexane          | 8.96 | 83  | 342389 | 5.51  | ug/L | 92     |
| 37) 1,2-Dichloropropane        | 9.00 | 63  | 175198 | 4.13  | ug/L | 98     |
| 38) Bromodichloromethane       | 9.29 | 83  | 175525 | 4.06  | ug/L | 96     |
| 39) cis-1,3-Dichloropropene    | 9.72 | 75  | 203759 | 4.27  | ug/L | 99     |
| 40) 4-Methyl-2-pentanone       | 9.87 | 43  | 519008 | 42.20 | ug/L | 98     |

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 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| 42) Toluene                    | 10.03 | 91   | 912499   | 5.14  | ug/L   | 96       |
| 44) trans-1,3-Dichloropropene  | 10.27 | 75   | 142287   | 4.06  | ug/L   | 94       |
| 45) 1,1,2-Trichloroethane      | 10.45 | 97   | 84935    | 4.08  | ug/L   | 93       |
| 47) Tetrachloroethene          | 10.52 | 164  | 178622   | 5.89  | ug/L   | 93       |
| 48) 2-Hexanone                 | 10.64 | 43   | 345145   | 40.80 | ug/L   | 97       |
| 49) Dibromochloromethane       | 10.79 | 129  | 101949   | 4.70  | ug/L   | 97       |
| 50) 1,2-Dibromoethane          | 10.89 | 107  | 73011    | 4.33  | ug/L # | 96       |
| 51) Chlorobenzene              | 11.32 | 112  | 530122   | 4.90  | ug/L   | 89       |
| 52) Ethylbenzene               | 11.39 | 91   | 999596   | 5.25  | ug/L   | 97       |
| 53) m,p-Xylene                 | 11.51 | 106  | 389869   | 5.46  | ug/L   | 78       |
| 54) o-Xylene                   | 11.83 | 106  | 356586   | 5.79  | ug/L   | 90       |
| 55) Styrene                    | 11.85 | 104  | 573441   | 5.66  | ug/L   | 81       |
| 56) Isopropylbenzene           | 12.13 | 105  | 952035   | 5.84  | ug/L   | 95       |
| 58) 1,1,2,2-Tetrachloroethane  | 12.38 | 83   | 83909    | 4.10  | ug/L # | 98       |
| 59) 1,2,3-Trichloropropane     | 12.44 | 75   | 55008    | 3.73  | ug/L   | 95       |
| 61) Bromoform                  | 12.01 | 173  | 43297    | 4.54  | ug/L   | 97       |
| 62) 1,3-Dichlorobenzene        | 13.16 | 146  | 346579   | 5.06  | ug/L   | 95       |
| 63) 1,4-Dichlorobenzene        | 13.24 | 146  | 366811   | 4.82  | ug/L   | 94       |
| 65) 1,2-Dichlorobenzene        | 13.53 | 146  | 290993   | 4.89  | ug/L   | 93       |
| 66) 1,2-Dibromo-3-chloropropan | 14.14 | 75   | 7315     | 2.78  | ug/L   | 90       |
| 67) 1,3,5-Trichlorobenzene     | 14.29 | 180  | 226054   | 5.05  | ug/L   | 98       |
| 68) 1,2,4-trichlorobenzene     | 14.79 | 180  | 140889   | 4.58  | ug/L   | 96       |
| 69) Naphthalene                | 15.00 | 128  | 166641   | 4.23  | ug/L   | 98       |
| 70) 1,2,3-Trichlorobenzene     | 15.18 | 180  | 109765   | 4.63  | ug/L   | 98       |

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

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