

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\VX091818\  
 Data File : VX004693.D  
 Acq On : 19 Sep 2018 07:49  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 52 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Sep 19 12:45:11 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X091118W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 12 02:17:23 2018  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

|       | Compound                    | AvqRF | CCRF  | %Dev   | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|--------|-------|----------|
| 1 I   | Pentafluorobenzene          | 1.000 | 1.000 | 0.0    | 89    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.469 | 0.476 | -1.5   | 87    | 0.00     |
| 3 P   | Chloromethane               | 0.645 | 0.630 | 2.3    | 92    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.662 | 0.665 | -0.5#  | 89    | 0.00     |
| 5 T   | Bromomethane                | 0.316 | 0.276 | 12.7   | 89    | 0.00     |
| 6 T   | Chloroethane                | 0.428 | 0.426 | 0.5    | 92    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.877 | 0.881 | -0.5   | 94    | 0.00     |
| 8 T   | Diethyl Ether               | 0.393 | 0.410 | -4.3   | 94    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.557 | 0.564 | -1.3   | 95    | 0.00     |
| 10 T  | Methyl Iodide               | 0.612 | 0.625 | -2.1   | 84    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.154 | 0.158 | -2.6   | 96    | -0.01    |
| 12 CM | 1,1-Dichloroethene          | 0.522 | 0.575 | -10.2# | 101   | 0.00     |
| 13 T  | Acrolein                    | 0.061 | 0.047 | 23.0#  | 79    | 0.00     |
| 14 T  | Allyl chloride              | 1.074 | 1.055 | 1.8    | 89    | 0.00     |
| 15 T  | Acrylonitrile               | 0.370 | 0.374 | -1.1   | 96    | 0.00     |
| 16 T  | Acetone                     | 0.315 | 0.278 | 11.7   | 89    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.510 | 1.388 | 8.1    | 81    | 0.00     |
| 18 T  | Methyl Acetate              | 0.883 | 0.954 | -8.0   | 104   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.833 | 1.985 | -8.3   | 101   | 0.00     |
| 20 T  | Methylene Chloride          | 0.645 | 0.667 | -3.4   | 101   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.577 | 0.590 | -2.3   | 96    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.934 | 1.972 | -2.0   | 94    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.565 | 1.649 | -5.4   | 91    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.092 | 1.159 | -6.1   | 97    | 0.00     |
| 25 T  | 2-Butanone                  | 0.501 | 0.470 | 6.2    | 91    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.750 | 0.486 | 35.2#  | 60    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.644 | 0.703 | -9.2   | 100   | 0.00     |
| 28 T  | Bromochloromethane          | 0.500 | 0.476 | 4.8    | 89    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.302 | 0.314 | -4.0   | 92    | -0.01    |
| 30 C  | Chloroform                  | 1.066 | 1.088 | -2.1#  | 92    | 0.00     |
| 31 T  | Cyclohexane                 | 0.933 | 0.974 | -4.4   | 88    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.859 | 0.924 | -7.6   | 99    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.645 | 0.603 | 6.5    | 88    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 94    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.458 | 0.436 | 4.8    | 87    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.607 | 0.643 | -5.9   | 95    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.690 | 0.684 | 0.9    | 89    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.593 | 0.603 | -1.7   | 91    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.633 | 0.638 | -0.8   | 87    | 0.00     |
| 40 TM | Benzene                     | 1.801 | 1.960 | -8.8   | 96    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.380 | 0.398 | -4.7   | 95    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.597 | 0.619 | -3.7   | 100   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.917 | 0.952 | -3.8   | 95    | 0.00     |
| 44 TM | Trichloroethene             | 0.468 | 0.499 | -6.6   | 98    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.433 | 0.449 | -3.7#  | 95    | 0.00     |

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 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

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 Quant Title : SW846 8260  
 QLast Update : Wed Sep 12 02:17:23 2018  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

|       | Compound                    | AvqRF | CCRF  | %Dev   | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|--------|-------|----------|
| 46 T  | Dibromomethane              | 0.274 | 0.290 | -5.8   | 97    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.518 | 0.538 | -3.9   | 93    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.454 | 0.473 | -4.2   | 90    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.011 | 0.011 | 0.0    | 92    | 0.00     |
| 50 S  | Toluene-d8                  | 1.534 | 1.414 | 7.8    | 85    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.647 | 0.605 | 6.5    | 89    | 0.00     |
| 52 CM | Toluene                     | 1.061 | 1.062 | -0.1#  | 89    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.605 | 0.613 | -1.3   | 84    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.617 | 0.628 | -1.8   | 89    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.457 | 0.528 | -15.5  | 104   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.646 | 0.789 | -22.1# | 101   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.742 | 0.874 | -17.8  | 110   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.297 | 0.311 | -4.7   | 87    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.496 | 0.538 | -8.5   | 102   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.430 | 0.495 | -15.1  | 106   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.436 | 0.482 | -10.6  | 102   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.548 | 0.530 | 3.3    | 91    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0    | 92    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.624 | 0.785 | -25.8# | 109   | 0.00     |
| 65 PM | Chlorobenzene               | 1.242 | 1.293 | -4.1   | 96    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.428 | 0.464 | -8.4   | 97    | 0.00     |
| 67 C  | Ethyl Benzene               | 2.019 | 2.171 | -7.5#  | 94    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.778 | 0.858 | -10.3  | 94    | 0.00     |
| 69 T  | o-Xylene                    | 0.748 | 0.837 | -11.9  | 97    | 0.00     |
| 70 T  | Styrene                     | 1.239 | 1.418 | -14.4  | 96    | 0.00     |
| 71 P  | Bromoform                   | 0.352 | 0.387 | -9.9   | 98    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 108   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.293 | 3.076 | 6.6    | 95    | 0.00     |
| 74 T  | N-amyl acetate              | 1.386 | 1.260 | 9.1    | 94    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.062 | 0.910 | 14.3   | 96    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.006 | 0.886 | 11.9   | 95    | 0.00     |
| 77 T  | Bromobenzene                | 0.910 | 0.834 | 8.4    | 98    | 0.00     |
| 78 T  | n-propylbenzene             | 3.786 | 3.476 | 8.2    | 93    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.296 | 2.070 | 9.8    | 94    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.768 | 2.701 | 2.4    | 98    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.316 | 0.252 | 20.3#  | 82    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.680 | 2.506 | 6.5    | 96    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.635 | 3.041 | -15.4  | 118   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.826 | 3.270 | -15.7  | 115   | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.358 | 3.809 | -13.4  | 114   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 2.966 | 3.576 | -20.6# | 120   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.698 | 1.878 | -10.6  | 118   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.755 | 1.916 | -9.2   | 120   | 0.00     |
| 89 T  | n-Butylbenzene              | 2.703 | 2.722 | -0.7   | 103   | 0.00     |

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Quant Title : SW846 8260  
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Max. RRF Dev : 20% Max. Rel. Area : 150%

|      | Compound                    | AvgRF | CCRF  | %Dev   | Area% | Dev(min) |
|------|-----------------------------|-------|-------|--------|-------|----------|
| 90 T | Hexachloroethane            | 0.475 | 0.513 | -8.0   | 115   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.719 | 1.730 | -0.6   | 108   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.227 | 0.250 | -10.1  | 112   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 1.217 | 1.454 | -19.5  | 123   | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.636 | 0.669 | -5.2   | 115   | 0.00     |
| 95 T | Naphthalene                 | 3.413 | 4.275 | -25.3# | 122   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 1.250 | 1.458 | -16.6  | 122   | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 6