

Data Path : W:\HPCHEM1\MSVOA X\Data\VX031418\  
 Data File : VX000321.D  
 Acq On : 14 Mar 2018 18:32  
 Operator : JC/MD  
 Sample : VSTDICV050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 ICVVX031418

Quant Time: Mar 15 03:42:38 2018  
 Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X031418W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Mar 15 03:39:21 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   | 109   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.539 | 0.580 | -7.6  | 125   | 0.00     |
| 3 P   | Chloromethane               | 0.549 | 0.583 | -6.2  | 126   | 0.00     |
| 4 C   | Vinyl Chloride              | 0.615 | 0.631 | -2.6# | 112   | 0.00     |
| 5 T   | Bromomethane                | 0.686 | 0.706 | -2.9  | 113   | 0.00     |
| 6 T   | Chloroethane                | 0.437 | 0.416 | 4.8   | 115   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 1.068 | 1.073 | -0.5  | 112   | 0.00     |
| 8 T   | Diethyl Ether               | 0.380 | 0.370 | 2.6   | 111   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.575 | 0.568 | 1.2   | 110   | 0.00     |
| 10 T  | Methyl Iodide               | 0.581 | 0.570 | 1.9   | 101   | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.224 | 0.219 | 2.2   | 112   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.546 | 0.533 | 2.4#  | 110   | 0.00     |
| 13 T  | Acrolein                    | 0.096 | 0.098 | -2.1  | 122   | 0.00     |
| 14 T  | Allyl chloride              | 0.973 | 0.934 | 4.0   | 109   | 0.00     |
| 15 T  | Acrylonitrile               | 0.432 | 0.417 | 3.5   | 109   | 0.00     |
| 16 T  | Acetone                     | 0.462 | 0.443 | 4.1   | 106   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.594 | 1.589 | 0.3   | 112   | 0.00     |
| 18 T  | Methyl Acetate              | 1.034 | 0.980 | 5.2   | 108   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.921 | 1.885 | 1.9   | 110   | 0.00     |
| 20 T  | Methylene Chloride          | 0.598 | 0.565 | 5.5   | 106   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.603 | 0.583 | 3.3   | 110   | 0.00     |
| 22 T  | Diisopropyl ether           | 1.620 | 1.467 | 9.4   | 113   | 0.00     |
| 23 T  | Vinyl Acetate               | 1.544 | 1.410 | 8.7   | 112   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.019 | 0.936 | 8.1   | 105   | 0.00     |
| 25 T  | 2-Butanone                  | 0.552 | 0.551 | 0.2   | 113   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.736 | 0.741 | -0.7  | 117   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.551 | 0.524 | 4.9   | 111   | 0.00     |
| 28 T  | Bromochloromethane          | 0.428 | 0.453 | -5.8  | 108   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.355 | 0.346 | 2.5   | 111   | 0.00     |
| 30 C  | Chloroform                  | 0.962 | 0.966 | -0.4# | 113   | 0.00     |
| 31 T  | Cyclohexane                 | 0.782 | 0.774 | 1.0   | 112   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.850 | 0.868 | -2.1  | 113   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.692 | 0.667 | 3.6   | 109   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 110   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.315 | 0.316 | -0.3  | 110   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.454 | 0.439 | 3.3   | 112   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.604 | 0.578 | 4.3   | 112   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.458 | 0.455 | 0.7   | 113   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.530 | 0.523 | 1.3   | 114   | 0.00     |
| 40 TM | Benzene                     | 1.289 | 1.265 | 1.9   | 112   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.317 | 0.297 | 6.3   | 111   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.511 | 0.486 | 4.9   | 110   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.871 | 0.875 | -0.5  | 112   | 0.00     |
| 44 TM | Trichloroethene             | 0.373 | 0.362 | 2.9   | 115   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.318 | 0.316 | 0.6#  | 112   | 0.00     |

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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              | 0.255 | 0.251 | 1.6   | 114   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.453 | 0.462 | -2.0  | 114   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.441 | 0.429 | 2.7   | 112   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.010 | 0.010 | 0.0   | 114   | 0.00     |
| 50 S  | Toluene-d8                  | 1.316 | 1.325 | -0.7  | 111   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.677 | 0.674 | 0.4   | 113   | 0.00     |
| 52 CM | Toluene                     | 0.905 | 0.910 | -0.6# | 116   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.523 | 0.541 | -3.4  | 112   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.512 | 0.542 | -5.9  | 112   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.363 | 0.357 | 1.7   | 112   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.538 | 0.567 | -5.4  | 115   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.589 | 0.586 | 0.5   | 113   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.247 | 0.271 | -9.7  | 118   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.570 | 0.573 | -0.5  | 112   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.384 | 0.414 | -7.8  | 117   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.403 | 0.410 | -1.7  | 114   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.528 | 0.528 | 0.0   | 111   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 109   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.357 | 0.334 | 6.4   | 113   | 0.00     |
| 65 PM | Chlorobenzene               | 1.018 | 1.036 | -1.8  | 115   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.342 | 0.356 | -4.1  | 115   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.736 | 1.743 | -0.4# | 114   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.676 | 0.715 | -5.8  | 118   | 0.00     |
| 69 T  | o-Xylene                    | 0.657 | 0.674 | -2.6  | 115   | 0.00     |
| 70 T  | Styrene                     | 1.090 | 1.171 | -7.4  | 118   | 0.00     |
| 71 P  | Bromoform                   | 0.300 | 0.316 | -5.3  | 117   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 112   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.011 | 2.912 | 3.3   | 116   | 0.00     |
| 74 T  | N-amyl acetate              | 1.442 | 1.321 | 8.4   | 112   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.072 | 1.010 | 5.8   | 114   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.007 | 0.892 | 11.4  | 112   | 0.00     |
| 77 T  | Bromobenzene                | 0.790 | 0.745 | 5.7   | 115   | 0.00     |
| 78 T  | n-propylbenzene             | 3.631 | 3.448 | 5.0   | 114   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.061 | 1.936 | 6.1   | 113   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.565 | 2.521 | 1.7   | 114   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.295 | 0.297 | -0.7  | 113   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.533 | 2.413 | 4.7   | 113   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.503 | 2.474 | 1.2   | 117   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.637 | 2.591 | 1.7   | 114   | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.133 | 3.089 | 1.4   | 116   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 2.788 | 2.816 | -1.0  | 116   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.551 | 1.496 | 3.5   | 118   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.612 | 1.581 | 1.9   | 116   | 0.00     |
| 89 T  | n-Butylbenzene              | 2.711 | 2.581 | 4.8   | 114   | 0.00     |

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Max. RRF Dev : 20% Max. Rel. Area : 150%

|      | Compound                    | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|-----------------------------|-------|-------|------|-------|----------|
| 90 T | Hexachloroethane            | 0.447 | 0.440 | 1.6  | 115   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.502 | 1.468 | 2.3  | 115   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.290 | 0.279 | 3.8  | 114   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 1.082 | 1.016 | 6.1  | 115   | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.427 | 0.394 | 7.7  | 118   | 0.00     |
| 95 T | Naphthalene                 | 3.756 | 3.690 | 1.8  | 116   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 1.093 | 1.018 | 6.9  | 118   | 0.00     |

(#) = Out of Range

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