

Data Path : W:\HPCHEM1\MSVOA X\Data\VX041218\  
 Data File : VX000794.D  
 Acq On : 12 Apr 2018 11:09  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Apr 13 07:05:27 2018  
 Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X041018W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 10 15:49:28 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   | 116   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.564 | 0.517 | 8.3   | 102   | 0.00     |
| 3 P   | Chloromethane               | 0.484 | 0.390 | 19.4  | 92    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.544 | 0.481 | 11.6# | 101   | 0.00     |
| 5 T   | Bromomethane                | 0.250 | 0.190 | 24.0# | 96    | 0.00     |
| 6 T   | Chloroethane                | 0.330 | 0.283 | 14.2  | 102   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.821 | 0.750 | 8.6   | 105   | 0.00     |
| 8 T   | Diethyl Ether               | 0.307 | 0.270 | 12.1  | 104   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.484 | 0.452 | 6.6   | 109   | 0.00     |
| 10 T  | Methyl Iodide               | 0.311 | 0.219 | 29.6# | 76    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.112 | 0.095 | 15.2  | 97    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.459 | 0.405 | 11.8# | 103   | 0.00     |
| 13 T  | Acrolein                    | 0.054 | 0.025 | 53.7# | 54    | 0.00     |
| 14 T  | Allyl chloride              | 0.849 | 0.741 | 12.7  | 102   | 0.00     |
| 15 T  | Acrylonitrile               | 0.239 | 0.211 | 11.7  | 100   | 0.00     |
| 16 T  | Acetone                     | 0.217 | 0.191 | 12.0  | 102   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.390 | 1.159 | 16.6  | 99    | 0.00     |
| 18 T  | Methyl Acetate              | 0.563 | 0.508 | 9.8   | 103   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.529 | 1.391 | 9.0   | 104   | 0.00     |
| 20 T  | Methylene Chloride          | 0.506 | 0.432 | 14.6  | 103   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.506 | 0.436 | 13.8  | 102   | 0.00     |
| 22 T  | Diisopropyl ether           | 1.559 | 1.369 | 12.2  | 101   | 0.00     |
| 23 T  | Vinyl Acetate               | 1.369 | 1.198 | 12.5  | 101   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.875 | 0.773 | 11.7  | 103   | 0.00     |
| 25 T  | 2-Butanone                  | 0.359 | 0.317 | 11.7  | 100   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.869 | 0.773 | 11.0  | 104   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.574 | 0.508 | 11.5  | 102   | 0.00     |
| 28 T  | Bromochloromethane          | 0.352 | 0.336 | 4.5   | 115   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.228 | 0.198 | 13.2  | 99    | 0.00     |
| 30 C  | Chloroform                  | 0.926 | 0.838 | 9.5#  | 104   | 0.00     |
| 31 T  | Cyclohexane                 | 0.831 | 0.739 | 11.1  | 105   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.883 | 0.790 | 10.5  | 102   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.630 | 0.579 | 8.1   | 110   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 111   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.385 | 0.388 | -0.8  | 111   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.551 | 0.492 | 10.7  | 102   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.538 | 0.484 | 10.0  | 100   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.616 | 0.562 | 8.8   | 102   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.661 | 0.621 | 6.1   | 108   | 0.00     |
| 40 TM | Benzene                     | 1.530 | 1.406 | 8.1   | 103   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.311 | 0.284 | 8.7   | 101   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.571 | 0.525 | 8.1   | 103   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.922 | 0.830 | 10.0  | 101   | 0.00     |
| 44 TM | Trichloroethene             | 0.476 | 0.444 | 6.7   | 105   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.390 | 0.363 | 6.9#  | 103   | 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              | 0.272 | 0.250 | 8.1  | 103   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.548 | 0.510 | 6.9  | 102   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.478 | 0.436 | 8.8  | 101   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.010 | 0.008 | 20.0 | 97    | 0.00     |
| 50 S  | Toluene-d8                  | 1.434 | 1.422 | 0.8  | 113   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.541 | 0.493 | 8.9  | 100   | 0.00     |
| 52 CM | Toluene                     | 1.015 | 0.928 | 8.6# | 103   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.658 | 0.622 | 5.5  | 104   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.640 | 0.596 | 6.9  | 102   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.403 | 0.371 | 7.9  | 105   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.622 | 0.571 | 8.2  | 102   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.641 | 0.601 | 6.2  | 103   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.290 | 0.271 | 6.6  | 101   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.418 | 0.384 | 8.1  | 100   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.482 | 0.451 | 6.4  | 102   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.428 | 0.397 | 7.2  | 103   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.593 | 0.584 | 1.5  | 114   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0  | 112   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.489 | 0.461 | 5.7  | 107   | 0.00     |
| 65 PM | Chlorobenzene               | 1.258 | 1.165 | 7.4  | 104   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.473 | 0.441 | 6.8  | 104   | 0.00     |
| 67 C  | Ethyl Benzene               | 2.097 | 1.947 | 7.2# | 105   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.828 | 0.770 | 7.0  | 105   | 0.00     |
| 69 T  | o-Xylene                    | 0.798 | 0.743 | 6.9  | 104   | 0.00     |
| 70 T  | Styrene                     | 1.345 | 1.255 | 6.7  | 104   | 0.00     |
| 71 P  | Bromoform                   | 0.438 | 0.411 | 6.2  | 101   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0  | 114   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.172 | 2.933 | 7.5  | 105   | 0.00     |
| 74 T  | N-amyl acetate              | 1.428 | 1.261 | 11.7 | 101   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.921 | 0.825 | 10.4 | 103   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.862 | 0.791 | 8.2  | 103   | 0.00     |
| 77 T  | Bromobenzene                | 0.930 | 0.839 | 9.8  | 104   | 0.00     |
| 78 T  | n-propylbenzene             | 3.628 | 3.350 | 7.7  | 106   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.144 | 1.940 | 9.5  | 104   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.728 | 2.508 | 8.1  | 105   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.313 | 0.280 | 10.5 | 100   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.588 | 2.353 | 9.1  | 106   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.791 | 2.579 | 7.6  | 104   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.816 | 2.578 | 8.5  | 105   | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.292 | 3.041 | 7.6  | 105   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.070 | 2.844 | 7.4  | 106   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.721 | 1.568 | 8.9  | 105   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.763 | 1.596 | 9.5  | 105   | 0.00     |
| 89 T  | n-Butylbenzene              | 2.710 | 2.540 | 6.3  | 107   | 0.00     |

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

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|------|-----------------------------|-------|-------|------|-------|----------|
| 90 T | Hexachloroethane            | 0.520 | 0.481 | 7.5  | 103   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.661 | 1.524 | 8.2  | 105   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.231 | 0.197 | 14.7 | 98    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 1.417 | 1.314 | 7.3  | 107   | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.697 | 0.687 | 1.4  | 114   | 0.00     |
| 95 T | Naphthalene                 | 3.638 | 3.349 | 7.9  | 104   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 1.377 | 1.284 | 6.8  | 107   | 0.00     |

(#) = Out of Range

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