

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX020421\  
 Data File : VX020861.D  
 Acq On : 04 Feb 2021 16:16  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Feb 05 01:38:32 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X012521W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jan 25 13:38:15 2021  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|       | Compound                    | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|------|-------|----------|
| 1 I   | Pentafluorobenzene          | 1.000 | 1.000 | 0.0  | 100   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.704 | 0.737 | -4.7 | 93    | 0.00     |
| 3 P   | Chloromethane               | 0.703 | 0.631 | 10.2 | 86    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.701 | 0.650 | 7.3# | 88    | 0.00     |
| 5 T   | Bromomethane                | 0.337 | 0.294 | 12.8 | 93    | 0.00     |
| 6 T   | Chloroethane                | 0.397 | 0.378 | 4.8  | 90    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.951 | 0.952 | -0.1 | 98    | 0.00     |
| 8 T   | Diethyl Ether               | 0.341 | 0.328 | 3.8  | 94    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.486 | 0.477 | 1.9  | 97    | 0.00     |
| 10 T  | Methyl Iodide               | 0.681 | 0.605 | 11.2 | 84    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.127 | 0.112 | 11.8 | 86    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.480 | 0.464 | 3.3# | 96    | 0.00     |
| 13 T  | Acrolein                    | 0.096 | 0.088 | 8.3  | 89    | 0.00     |
| 14 T  | Allyl chloride              | 0.894 | 0.805 | 10.0 | 88    | 0.00     |
| 15 T  | Acrylonitrile               | 0.322 | 0.292 | 9.3  | 87    | 0.00     |
| 16 T  | Acetone                     | 0.259 | 0.212 | 18.1 | 82    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.611 | 1.249 | 22.5 | 83    | 0.00     |
| 18 T  | Methyl Acetate              | 0.661 | 0.632 | 4.4  | 91    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.796 | 1.761 | 1.9  | 93    | 0.00     |
| 20 T  | Methylene Chloride          | 0.653 | 0.601 | 8.0  | 94    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.600 | 0.573 | 4.5  | 95    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.758 | 1.634 | 7.1  | 88    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.446 | 1.360 | 5.9  | 87    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.062 | 1.009 | 5.0  | 92    | 0.00     |
| 25 T  | 2-Butanone                  | 0.405 | 0.357 | 11.9 | 86    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.853 | 0.852 | 0.1  | 98    | -0.01    |
| 27 T  | cis-1,2-Dichloroethene      | 0.658 | 0.635 | 3.5  | 94    | 0.00     |
| 28 T  | Bromochloromethane          | 0.455 | 0.368 | 19.1 | 87    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.261 | 0.226 | 13.4 | 82    | 0.00     |
| 30 C  | Chloroform                  | 1.092 | 1.069 | 2.1# | 95    | -0.01    |
| 31 T  | Cyclohexane                 | 0.917 | 0.830 | 9.5  | 88    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.961 | 0.946 | 1.6  | 95    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.682 | 0.615 | 9.8  | 93    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0  | 93    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.342 | 0.352 | -2.9 | 97    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.502 | 0.505 | -0.6 | 93    | -0.01    |
| 37 T  | Ethyl Acetate               | 0.476 | 0.447 | 6.1  | 84    | -0.01    |
| 38 T  | Carbon Tetrachloride        | 0.528 | 0.568 | -7.6 | 97    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.572 | 0.583 | -1.9 | 91    | 0.00     |
| 40 TM | Benzene                     | 1.478 | 1.522 | -3.0 | 93    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.266 | 0.254 | 4.5  | 86    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.527 | 0.530 | -0.6 | 91    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.758 | 0.708 | 6.6  | 84    | 0.00     |
| 44 TM | Trichloroethene             | 0.393 | 0.412 | -4.8 | 96    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.385 | 0.384 | 0.3# | 90    | 0.00     |
| 46 T  | Dibromomethane              | 0.259 | 0.267 | -3.1 | 93    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.546 | 0.561 | -2.7 | 93    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.383 | 0.370 | 3.4  | 85    | 0.00     |

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 LabSampleId :  
 VSTDCCC050

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Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|       | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 49 T  | 1,4-Dioxane                 | 0.009 | 0.009 | 0.0   | 89    | 0.00     |
| 50 S  | Toluene-d8                  | 1.256 | 1.246 | 0.8   | 95    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.479 | 0.458 | 4.4   | 82    | 0.00     |
| 52 CM | Toluene                     | 0.929 | 0.960 | -3.3# | 94    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.575 | 0.589 | -2.4  | 93    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.620 | 0.644 | -3.9  | 93    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.386 | 0.398 | -3.1  | 94    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.539 | 0.555 | -3.0  | 89    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.647 | 0.656 | -1.4  | 92    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.267 | 0.271 | -1.5  | 89    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.356 | 0.347 | 2.5   | 82    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.427 | 0.451 | -5.6  | 96    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.399 | 0.412 | -3.3  | 93    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.488 | 0.498 | -2.0  | 95    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 94    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.383 | 0.439 | -14.6 | 104   | 0.00     |
| 65 PM | Chlorobenzene               | 1.082 | 1.094 | -1.1  | 95    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.402 | 0.427 | -6.2  | 97    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.876 | 1.931 | -2.9# | 92    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.699 | 0.750 | -7.3  | 95    | 0.00     |
| 69 T  | o-Xylene                    | 0.658 | 0.692 | -5.2  | 93    | 0.00     |
| 70 T  | Styrene                     | 1.130 | 1.215 | -7.5  | 92    | 0.00     |
| 71 P  | Bromoform                   | 0.322 | 0.353 | -9.6  | 98    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 98    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.614 | 3.657 | -1.2  | 94    | 0.00     |
| 74 T  | N-amyl acetate              | 1.347 | 1.238 | 8.1   | 83    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.218 | 1.126 | 7.6   | 90    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.160 | 1.122 | 3.3   | 91    | 0.00     |
| 77 T  | Bromobenzene                | 0.915 | 0.894 | 2.3   | 96    | 0.00     |
| 78 T  | n-propylbenzene             | 4.172 | 4.240 | -1.6  | 94    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.548 | 2.517 | 1.2   | 93    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.089 | 3.165 | -2.5  | 93    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.414 | 0.390 | 5.8   | 91    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 3.016 | 3.015 | 0.0   | 94    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.982 | 3.032 | -1.7  | 93    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.116 | 3.270 | -4.9  | 95    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.448 | 3.549 | -2.9  | 94    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.200 | 3.437 | -7.4  | 98    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.667 | 1.693 | -1.6  | 97    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.731 | 1.716 | 0.9   | 100   | 0.00     |
| 89 T  | n-Butylbenzene              | 2.866 | 2.888 | -0.8  | 92    | 0.00     |
| 90 T  | Hexachloroethane            | 0.576 | 0.577 | -0.2  | 94    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.606 | 1.645 | -2.4  | 99    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.270 | 0.240 | 11.1  | 89    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 1.042 | 1.071 | -2.8  | 98    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.491 | 0.455 | 7.3   | 92    | 0.00     |
| 95 T  | Naphthalene                 | 3.209 | 3.462 | -7.9  | 93    | 0.00     |

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Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound               | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|------------------------|-------|-------|------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 1.014 | 1.073 | -5.8 | 101   | 0.00     |

(#) = Out of Range                      SPCC's out = 0    CCC's out = 6