

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\VX041720\  
 Data File : VX015754.D  
 Acq On : 17 Apr 2020 21:18  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Apr 20 06:36:21 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X032720W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Mar 27 09:35:51 2020  
 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     | 107   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.441 | 0.365 | 17.2    | 109   | 0.00     |
| 3 P   | Chloromethane               | 0.561 | 0.422 | 24.8#   | 75    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.515 | 0.488 | 5.2#    | 107   | 0.00     |
| 5 T   | Bromomethane                | 0.259 | 0.049 | 81.1#   | 19#   | 0.00     |
| 6 T   | Chloroethane                | 0.319 | 0.315 | 1.3     | 105   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.691 | 0.671 | 2.9     | 122   | 0.00     |
| 8 T   | Diethyl Ether               | 0.291 | 0.281 | 3.4     | 94    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.450 | 0.454 | -0.9    | 133   | 0.00     |
| 10 T  | Methyl Iodide               | 0.607 | 0.110 | 81.9#   | 16#   | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.169 | 0.139 | 17.8    | 78    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.472 | 0.461 | 2.3#    | 109   | 0.00     |
| 13 T  | Acrolein                    | 0.096 | 0.087 | 9.4     | 88    | 0.00     |
| 14 T  | Allyl chloride              | 1.103 | 0.965 | 12.5    | 86    | 0.00     |
| 15 T  | Acrylonitrile               | 0.322 | 0.315 | 2.2     | 89    | 0.00     |
| 16 T  | Acetone                     | 0.303 | 0.276 | 8.9     | 85    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.440 | 3.543 | -146.0# | 271#  | 0.00     |
| 18 T  | Methyl Acetate              | 0.773 | 0.763 | 1.3     | 90    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.831 | 1.772 | 3.2     | 89    | 0.00     |
| 20 T  | Methylene Chloride          | 0.566 | 0.534 | 5.7     | 92    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.524 | 0.500 | 4.6     | 98    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.954 | 1.912 | 2.1     | 91    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.770 | 1.675 | 5.4     | 86    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.029 | 0.981 | 4.7     | 96    | 0.00     |
| 25 T  | 2-Butanone                  | 0.487 | 0.457 | 6.2     | 86    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.845 | 0.719 | 14.9    | 91    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.606 | 0.600 | 1.0     | 96    | 0.00     |
| 28 T  | Bromochloromethane          | 0.491 | 0.435 | 11.4    | 82    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.313 | 0.295 | 5.8     | 86    | 0.00     |
| 30 C  | Chloroform                  | 0.990 | 0.961 | 2.9#    | 94    | 0.00     |
| 31 T  | Cyclohexane                 | 0.893 | 0.834 | 6.6     | 120   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.896 | 0.854 | 4.7     | 102   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.705 | 0.640 | 9.2     | 88    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0     | 94    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.320 | 0.330 | -3.1    | 98    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.461 | 0.461 | 0.0     | 107   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.600 | 0.573 | 4.5     | 84    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.499 | 0.479 | 4.0     | 105   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.531 | 0.530 | 0.2     | 132   | 0.00     |
| 40 TM | Benzene                     | 1.350 | 1.382 | -2.4    | 97    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.333 | 0.338 | -1.5    | 87    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.542 | 0.525 | 3.1     | 86    | 0.00     |
| 43 T  | Isopropyl Acetate           | 1.013 | 0.982 | 3.1     | 85    | 0.00     |
| 44 TM | Trichloroethene             | 0.368 | 0.406 | -10.3   | 110   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.369 | 0.373 | -1.1#   | 94    | 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              | 0.242 | 0.243 | -0.4  | 91    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.516 | 0.503 | 2.5   | 87    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.506 | 0.486 | 4.0   | 84    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.009 | 0.009 | 0.0   | 80    | 0.00     |
| 50 S  | Toluene-d8                  | 1.177 | 1.208 | -2.6  | 101   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.574 | 0.583 | -1.6  | 88    | 0.00     |
| 52 CM | Toluene                     | 0.832 | 0.869 | -4.4# | 98    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.605 | 0.555 | 8.3   | 83    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.616 | 0.597 | 3.1   | 87    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.341 | 0.362 | -6.2  | 95    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.601 | 0.617 | -2.7  | 91    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.614 | 0.619 | -0.8  | 92    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.292 | 0.263 | 9.9   | 79    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.433 | 0.439 | -1.4  | 87    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.410 | 0.422 | -2.9  | 90    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.371 | 0.381 | -2.7  | 91    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.478 | 0.487 | -1.9  | 99    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 93    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.377 | 0.396 | -5.0  | 112   | 0.00     |
| 65 PM | Chlorobenzene               | 0.997 | 1.032 | -3.5  | 98    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.398 | 0.401 | -0.8  | 93    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.769 | 1.855 | -4.9# | 103   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.659 | 0.691 | -4.9  | 103   | 0.00     |
| 69 T  | o-Xylene                    | 0.651 | 0.675 | -3.7  | 98    | 0.00     |
| 70 T  | Styrene                     | 1.145 | 1.190 | -3.9  | 98    | 0.00     |
| 71 P  | Bromoform                   | 0.363 | 0.350 | 3.6   | 86    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 97    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.276 | 3.364 | -2.7  | 108   | 0.00     |
| 74 T  | N-amyl acetate              | 1.822 | 1.707 | 6.3   | 87    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.124 | 1.143 | -1.7  | 97    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.028 | 0.979 | 4.8   | 87    | 0.00     |
| 77 T  | Bromobenzene                | 0.874 | 0.909 | -4.0  | 100   | 0.00     |
| 78 T  | n-propylbenzene             | 3.746 | 3.767 | -0.6  | 105   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.296 | 2.271 | 1.1   | 98    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.798 | 2.850 | -1.9  | 104   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.429 | 0.249 | 42.0# | 53    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.692 | 2.685 | 0.3   | 99    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.733 | 2.783 | -1.8  | 107   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.851 | 2.884 | -1.2  | 101   | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.161 | 3.211 | -1.6  | 113   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 2.934 | 3.005 | -2.4  | 109   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.564 | 1.618 | -3.5  | 102   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.593 | 1.635 | -2.6  | 101   | 0.00     |
| 89 T  | n-Butylbenzene              | 2.652 | 2.686 | -1.3  | 111   | 0.00     |

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

|      | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|-------|-------|-------|----------|
| 90 T | Hexachloroethane            | 0.571 | 0.398 | 30.3# | 73    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.531 | 1.603 | -4.7  | 101   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.317 | 0.261 | 17.7  | 82    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 1.211 | 1.310 | -8.2  | 108   | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.577 | 0.516 | 10.6  | 107   | 0.00     |
| 95 T | Naphthalene                 | 3.694 | 3.947 | -6.8  | 99    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 1.166 | 1.227 | -5.2  | 99    | 0.00     |

(#) = Out of Range

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