

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD101221\  
 Data File : VD070671.D  
 Acq On : 12 Oct 2021 11:06  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: Oct 13 06:33:28 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D100521S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 06 09:10:31 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   | 84    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.610 | 0.526 | 13.8  | 73    | 0.00     |
| 3 P   | Chloromethane               | 0.757 | 0.649 | 14.3  | 75    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.839 | 0.742 | 11.6# | 75    | 0.00     |
| 5 T   | Bromomethane                | 0.572 | 0.489 | 14.5  | 79    | 0.00     |
| 6 T   | Chloroethane                | 0.536 | 0.443 | 17.4  | 69    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 1.087 | 1.000 | 8.0   | 78    | 0.00     |
| 8 T   | Diethyl Ether               | 0.283 | 0.252 | 11.0  | 69    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.659 | 0.605 | 8.2   | 79    | 0.00     |
| 10 T  | Methyl Iodide               | 0.612 | 0.559 | 8.7   | 65    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.029 | 0.024 | 17.2  | 67    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.587 | 0.524 | 10.7# | 74    | 0.00     |
| 13 T  | Acrolein                    | 0.028 | 0.029 | -3.6  | 84    | 0.00     |
| 14 T  | Allyl chloride              | 0.817 | 0.700 | 14.3  | 68    | 0.00     |
| 15 T  | Acrylonitrile               | 0.123 | 0.119 | 3.3   | 75    | 0.00     |
| 16 T  | Acetone                     | 0.100 | 0.117 | -17.0 | 88    | 0.00     |
| 17 T  | Carbon Disulfide            | 2.142 | 1.869 | 12.7  | 73    | 0.00     |
| 18 T  | Methyl Acetate              | 0.386 | 0.354 | 8.3   | 73    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.169 | 1.139 | 2.6   | 72    | 0.00     |
| 20 T  | Methylene Chloride          | 0.932 | 0.690 | 26.0# | 74    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.690 | 0.658 | 4.6   | 77    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.678 | 1.626 | 3.1   | 72    | 0.00     |
| 23 T  | Vinyl Acetate               | 0.763 | 0.751 | 1.6   | 71    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.236 | 1.117 | 9.6   | 75    | 0.00     |
| 25 T  | 2-Butanone                  | 0.131 | 0.136 | -3.8  | 78    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 1.023 | 0.962 | 6.0   | 79    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.725 | 0.697 | 3.9   | 76    | 0.00     |
| 28 T  | Bromochloromethane          | 0.430 | 0.431 | -0.2  | 82    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.084 | 0.083 | 1.2   | 73    | 0.00     |
| 30 C  | Chloroform                  | 1.286 | 1.203 | 6.5#  | 78    | 0.00     |
| 31 T  | Cyclohexane                 | 1.090 | 0.955 | 12.4  | 72    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 1.107 | 1.029 | 7.0   | 78    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.588 | 0.562 | 4.4   | 84    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 79    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.332 | 0.354 | -6.6  | 86    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.531 | 0.545 | -2.6  | 76    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.176 | 0.183 | -4.0  | 74    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.556 | 0.577 | -3.8  | 81    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.611 | 0.622 | -1.8  | 73    | 0.00     |
| 40 TM | Benzene                     | 1.565 | 1.552 | 0.8   | 75    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.091 | 0.097 | -6.6  | 78    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.405 | 0.411 | -1.5  | 76    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.323 | 0.332 | -2.8  | 73    | 0.00     |
| 44 TM | Trichloroethene             | 0.386 | 0.381 | 1.3   | 76    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.399 | 0.404 | -1.3# | 75    | 0.00     |
| 46 T  | Dibromomethane              | 0.205 | 0.209 | -2.0  | 76    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.529 | 0.537 | -1.5  | 77    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.152 | 0.164 | -7.9  | 74    | 0.00     |

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 LabSampleId :  
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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                 | 0.002 | 0.002 | 0.0   | 81    | 0.00     |
| 50 S  | Toluene-d8                  | 1.271 | 1.361 | -7.1  | 84    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.167 | 0.183 | -9.6  | 74    | 0.00     |
| 52 CM | Toluene                     | 0.962 | 1.026 | -6.7# | 77    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.463 | 0.476 | -2.8  | 76    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.557 | 0.560 | -0.5  | 74    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.279 | 0.295 | -5.7  | 80    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.298 | 0.325 | -9.1  | 72    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.475 | 0.503 | -5.9  | 76    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.135 | 0.156 | -15.6 | 82    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.113 | 0.133 | -17.7 | 78    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.336 | 0.350 | -4.2  | 78    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.260 | 0.270 | -3.8  | 78    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.425 | 0.458 | -7.8  | 85    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 81    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.321 | 0.322 | -0.3  | 79    | 0.00     |
| 65 PM | Chlorobenzene               | 1.066 | 1.053 | 1.2   | 77    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.397 | 0.395 | 0.5   | 78    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.840 | 1.922 | -4.5# | 77    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.725 | 0.770 | -6.2  | 78    | 0.00     |
| 69 T  | o-Xylene                    | 0.644 | 0.688 | -6.8  | 77    | 0.00     |
| 70 T  | Styrene                     | 1.135 | 1.248 | -10.0 | 79    | 0.00     |
| 71 P  | Bromoform                   | 0.186 | 0.199 | -7.0  | 82    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 85    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.645 | 3.655 | -0.3  | 77    | 0.00     |
| 74 T  | N-amyl acetate              | 0.687 | 0.678 | 1.3   | 74    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.713 | 0.687 | 3.6   | 79    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.453 | 0.508 | -12.1 | 92    | 0.00     |
| 77 T  | Bromobenzene                | 0.815 | 0.800 | 1.8   | 79    | 0.00     |
| 78 T  | n-propylbenzene             | 4.613 | 4.746 | -2.9  | 79    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.706 | 2.689 | 0.6   | 78    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.109 | 3.232 | -4.0  | 79    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.204 | 0.199 | 2.5   | 74    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.829 | 2.859 | -1.1  | 80    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.569 | 2.625 | -2.2  | 79    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.093 | 3.235 | -4.6  | 79    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.983 | 4.067 | -2.1  | 78    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.253 | 3.380 | -3.9  | 78    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.711 | 1.693 | 1.1   | 80    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.697 | 1.653 | 2.6   | 80    | 0.00     |
| 89 T  | n-Butylbenzene              | 3.106 | 3.168 | -2.0  | 78    | 0.00     |
| 90 T  | Hexachloroethane            | 0.703 | 0.661 | 6.0   | 79    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.459 | 1.458 | 0.1   | 81    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.103 | 0.096 | 6.8   | 76    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.786 | 0.804 | -2.3  | 80    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.496 | 0.508 | -2.4  | 83    | 0.00     |
| 95 T  | Naphthalene                 | 1.418 | 1.450 | -2.3  | 76    | 0.00     |

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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) |
|------|------------------------|-------|-------|------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 0.692 | 0.709 | -2.5 | 79    | 0.00     |

(#) = Out of Range

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