

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD032519\  
 Data File : VD061315.D  
 Acq On : 25 Mar 2019 23:12  
 Operator : VA/AP  
 Sample : VSTDCCC050  
 Misc : 5.00µl/5ml/MSVOA D/SOIL  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: Mar 26 08:06:10 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D032519S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Mar 26 03:31:57 2019  
 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    | 104   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.511 | 0.507 | 0.8    | 96    | 0.00     |
| 3 P   | Chloromethane               | 0.399 | 0.390 | 2.3    | 100   | 0.00     |
| 4 C   | Vinyl Chloride              | 0.373 | 0.373 | 0.0    | 97    | 0.00     |
| 5 T   | Bromomethane                | 0.076 | 0.078 | -2.6   | 95    | 0.00     |
| 6 T   | Chloroethane                | 0.117 | 0.138 | -17.9  | 96    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.551 | 0.517 | 6.2    | 87    | 0.00     |
| 8 T   | Diethyl Ether               | 0.164 | 0.200 | -22.0# | 124   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.561 | 0.573 | -2.1   | 99    | 0.00     |
| 10 T  | Methyl Iodide               | 0.784 | 0.932 | -18.9  | 101   | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.023 | 0.026 | -13.0  | 106   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.483 | 0.502 | -3.9#  | 102   | 0.00     |
| 13 T  | Acrolein                    | 0.025 | 0.017 | 32.0#  | 76    | 0.00     |
| 14 T  | Allyl chloride              | 0.685 | 0.741 | -8.2   | 106   | 0.00     |
| 15 T  | Acrylonitrile               | 0.081 | 0.088 | -8.6   | 103   | 0.00     |
| 16 T  | Acetone                     | 0.103 | 0.100 | 2.9    | 81    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.603 | 1.693 | -5.6   | 100   | 0.00     |
| 18 T  | Methyl Acetate              | 0.195 | 0.212 | -8.7   | 107   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 0.850 | 0.950 | -11.8  | 103   | 0.01     |
| 20 T  | Methylene Chloride          | 0.586 | 0.625 | -6.7   | 118   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.540 | 0.552 | -2.2   | 94    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.443 | 1.598 | -10.7  | 102   | 0.00     |
| 23 T  | Vinyl Acetate               | 0.770 | 0.902 | -17.1  | 108   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.841 | 0.919 | -9.3   | 101   | 0.01     |
| 25 T  | 2-Butanone                  | 0.119 | 0.137 | -15.1  | 101   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.714 | 0.720 | -0.8   | 96    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.581 | 0.666 | -14.6  | 106   | 0.00     |
| 28 T  | Bromochloromethane          | 0.352 | 0.384 | -9.1   | 103   | 0.00     |
| 29    | Tetrahydrofuran             | 0.059 | 0.073 | -23.7# | 110   | 0.00     |
| 30 C  | Chloroform                  | 0.896 | 0.987 | -10.2# | 104   | 0.01     |
| 31 T  | Cyclohexane                 | 0.682 | 0.704 | -3.2   | 94    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.793 | 0.804 | -1.4   | 90    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.431 | 0.427 | 0.9    | 96    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 104   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.383 | 0.399 | -4.2   | 100   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.409 | 0.401 | 2.0    | 97    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.171 | 0.195 | -14.0  | 108   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.468 | 0.448 | 4.3    | 94    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.424 | 0.451 | -6.4   | 97    | 0.01     |
| 40 TM | Benzene                     | 1.016 | 1.057 | -4.0   | 95    | 0.01     |
| 41 T  | Methacrylonitrile           | 0.199 | 0.234 | -17.6  | 107   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.317 | 0.346 | -9.1   | 104   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.246 | 0.293 | -19.1  | 110   | 0.00     |
| 44 TM | Trichloroethene             | 0.367 | 0.411 | -12.0  | 105   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.251 | 0.279 | -11.2# | 100   | 0.00     |

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 LabSampleId :  
 VSTDCCC050

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 Quant Title : SW846 8260  
 QLast Update : Tue Mar 26 03:31:57 2019  
 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) |
|-------|-----------------------------|-------|-------|---------|-------|----------|
| 46 T  | Dibromomethane              | 0.172 | 0.188 | -9.3    | 103   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.403 | 0.439 | -8.9    | 100   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.131 | 0.158 | -20.6#  | 124   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.001 | 0.002 | -100.0# | 108   | 0.00     |
| 50 S  | Toluene-d8                  | 0.928 | 0.958 | -3.2    | 102   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.147 | 0.165 | -12.2   | 108   | 0.00     |
| 52 CM | Toluene                     | 0.622 | 0.683 | -9.8#   | 112   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.350 | 0.399 | -14.0   | 108   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.428 | 0.474 | -10.7   | 103   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.206 | 0.231 | -12.1   | 112   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.220 | 0.251 | -14.1   | 106   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.312 | 0.351 | -12.5   | 103   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.115 | 0.112 | 2.6     | 94    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.107 | 0.127 | -18.7   | 103   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.323 | 0.364 | -12.7   | 103   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.241 | 0.279 | -15.8   | 110   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.362 | 0.377 | -4.1    | 105   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0     | 103   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.344 | 0.379 | -10.2   | 105   | 0.00     |
| 65 PM | Chlorobenzene               | 0.921 | 0.973 | -5.6    | 101   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.357 | 0.399 | -11.8   | 102   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.409 | 1.543 | -9.5#   | 103   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.550 | 0.573 | -4.2    | 105   | 0.00     |
| 69 T  | o-Xylene                    | 0.510 | 0.581 | -13.9   | 106   | 0.00     |
| 70 T  | Styrene                     | 0.866 | 1.000 | -15.5   | 107   | 0.00     |
| 71 P  | Bromoform                   | 0.218 | 0.263 | -20.6#  | 109   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0     | 100   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.252 | 3.352 | -3.1    | 96    | 0.00     |
| 74 T  | N-amyl acetate              | 0.851 | 0.923 | -8.5    | 99    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.631 | 0.727 | -15.2   | 101   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.622 | 0.716 | -15.1   | 107   | 0.00     |
| 77 T  | Bromobenzene                | 0.908 | 0.970 | -6.8    | 95    | 0.00     |
| 78 T  | n-propylbenzene             | 3.669 | 3.896 | -6.2    | 99    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.136 | 2.124 | 0.6     | 97    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.566 | 2.881 | -12.3   | 104   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.196 | 0.228 | -16.3   | 100   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.335 | 2.607 | -11.6   | 107   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.929 | 3.274 | -11.8   | 102   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.566 | 2.881 | -12.3   | 104   | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.262 | 3.452 | -5.8    | 99    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 2.910 | 3.033 | -4.2    | 95    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.610 | 1.685 | -4.7    | 99    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.560 | 1.712 | -9.7    | 98    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.584 | 2.556 | 1.1     | 94    | 0.00     |

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

|      | Compound                    | AvgRF | CCRF  | %Dev   | Area% | Dev(min) |
|------|-----------------------------|-------|-------|--------|-------|----------|
| 90 T | Hexachloroethane            | 0.780 | 0.814 | -4.4   | 93    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.285 | 1.332 | -3.7   | 98    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.079 | 0.091 | -15.2  | 103   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 0.593 | 0.665 | -12.1  | 94    | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.478 | 0.536 | -12.1  | 94    | 0.00     |
| 95 T | Naphthalene                 | 0.866 | 1.104 | -27.5# | 106   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 0.277 | 0.315 | -13.7  | 91    | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 5