

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY100520\  
 Data File : VY003454.D  
 Acq On : 05 Oct 2020 15:27  
 Operator : SY/MD  
 Sample : VSTDIC010  
 Misc : 5.00G/5ML/MSVOA Y/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDIC010

Manual Integrations  
 APPROVED

MMDadoda  
 10/6/2020 12:55:37 PM

Quant Time: Oct 06 04:21:48 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y100520S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Oct 06 04:18:29 2020  
 Response via : Initial Calibration

| Internal Standards            | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 1) Pentafluorobenzene         | 7.80   | 168  | 454759   | 50.00  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.69   | 114  | 651208   | 50.00  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.49  | 117  | 614143   | 50.00  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.42  | 152  | 344824   | 50.00  | ug/l   | 0.00     |
| System Monitoring Compounds   |        |      |          |        |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.14   | 65   | 45722    | 9.87   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 |      | Recovery | =      | 19.74% |          |
| 35) Dibromofluoromethane      | 7.73   | 113  | 38224    | 9.68   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 |      | Recovery | =      | 19.36% |          |
| 50) Toluene-d8                | 10.17  | 98   | 161355   | 9.77   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 |      | Recovery | =      | 19.54% |          |
| 62) 4-Bromofluorobenzene      | 12.48  | 95   | 54337    | 9.46   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 |      | Recovery | =      | 18.92% |          |
| Target Compounds              |        |      |          |        |        |          |
|                               |        |      |          |        | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.91   | 85   | 35376    | 10.011 | ug/l   | 100      |
| 3) Chloromethane              | 2.12   | 50   | 49545    | 10.092 | ug/l   | 96       |
| 4) Vinyl Chloride             | 2.26   | 62   | 52752    | 9.833  | ug/l   | 96       |
| 5) Bromomethane               | 2.65   | 94   | 57485    | 11.344 | ug/l   | 94       |
| 6) Chloroethane               | 2.80   | 64   | 33186    | 10.174 | ug/l   | 99       |
| 7) Trichlorofluoromethane     | 3.13   | 101  | 68874    | 10.563 | ug/l   | 98       |
| 8) Diethyl Ether              | 3.54   | 74   | 22154    | 10.178 | ug/l   | 96       |
| 9) 1,1,2-Trichlorotrifluoroet | 3.91   | 101  | 37651    | 10.349 | ug/l   | 97       |
| 10) Methyl Iodide             | 4.09   | 142  | 7682     | 3.481  | ug/l   | 98       |
| 11) Tert butyl alcohol        | 4.97   | 59   | 24198    | 56.173 | ug/l   | 98       |
| 12) 1,1-Dichloroethene        | 3.88   | 96   | 36717    | 10.210 | ug/l   | 98       |
| 13) Acrolein                  | 3.74   | 56   | 22824    | 54.318 | ug/l   | 96       |
| 14) Allyl chloride            | 4.49   | 41   | 65226    | 10.127 | ug/l   | 99       |
| 15) Acrylonitrile             | 5.18   | 53   | 53204    | 51.267 | ug/l   | 99       |
| 16) Acetone                   | 3.96   | 43   | 57004    | 51.525 | ug/l   | 98       |
| 17) Carbon Disulfide          | 4.20   | 76   | 121349   | 10.347 | ug/l   | 98       |
| 18) Methyl Acetate            | 4.48   | 43   | 27839    | 10.484 | ug/l   | 97       |
| 19) Methyl tert-butyl Ether   | 5.23   | 73   | 97423    | 10.246 | ug/l   | 99       |
| 20) Methylene Chloride        | 4.72   | 84   | 55437    | 11.610 | ug/l   | 99       |
| 21) trans-1,2-Dichloroethene  | 5.23   | 96   | 44281    | 10.564 | ug/l   | 96       |
| 22) Diisopropyl ether         | 6.13   | 45   | 125192   | 10.412 | ug/l   | 97       |
| 23) Vinyl Acetate             | 6.07   | 43   | 447348   | 50.594 | ug/l   | 99       |
| 24) 1,1-Dichloroethane        | 6.02   | 63   | 77459    | 10.425 | ug/l   | 96       |
| 25) 2-Butanone                | 6.99   | 43   | 81734    | 51.274 | ug/l   | 99       |
| 26) 2,2-Dichloropropane       | 6.99   | 77   | 71152    | 10.715 | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene    | 6.99   | 96   | 47857    | 10.173 | ug/l   | 99       |
| 28) Bromochloromethane        | 7.34   | 49   | 36284    | 9.924  | ug/l   | 99       |
| 29) Tetrahydrofuran           | 7.36   | 42   | 49077    | 52.579 | ug/l   | 99       |
| 30) Chloroform                | 7.51   | 83   | 77924    | 10.321 | ug/l   | 98       |
| 31) Cyclohexane               | 7.79   | 56   | 70798    | 10.779 | ug/l   | # 89     |
| 32) 1,1,1-Trichloroethane     | 7.71   | 97   | 71371    | 10.309 | ug/l   | 98       |
| 36) 1,1-Dichloropropene       | 7.93   | 75   | 61352    | 10.055 | ug/l   | 99       |
| 37) Ethyl Acetate             | 7.08   | 43   | 36976    | 10.297 | ug/l   | 97       |
| 38) Carbon Tetrachloride      | 7.91   | 117  | 65491    | 10.273 | ug/l   | 97       |

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 Quant Title : SW846 8260  
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 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.18  | 83   | 65808    | 9.737   | ug/l   | 97       |
| 40) Benzene                    | 8.16  | 78   | 174946   | 10.115  | ug/l   | 99       |
| 41) Methacrylonitrile          | 7.32  | 41   | 19058m   | 10.433  | ug/l   |          |
| 42) 1,2-Dichloroethane         | 8.24  | 62   | 56615    | 10.285  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.28  | 43   | 67245    | 9.943   | ug/l   | 99       |
| 44) Trichloroethene            | 8.94  | 130  | 51779    | 10.174  | ug/l   | 95       |
| 45) 1,2-Dichloropropane        | 9.22  | 63   | 44493    | 10.089  | ug/l   | 97       |
| 46) Dibromomethane             | 9.30  | 93   | 25734    | 10.368  | ug/l   | 99       |
| 47) Bromodichloromethane       | 9.50  | 83   | 61610    | 10.076  | ug/l   | 98       |
| 48) Methyl methacrylate        | 9.29  | 41   | 31495    | 9.814   | ug/l   | 99       |
| 49) 1,4-Dioxane                | 9.30  | 88   | 5945     | 201.978 | ug/l   | 96       |
| 51) 4-Methyl-2-Pentanone       | 10.07 | 43   | 182082   | 50.749  | ug/l   | 100      |
| 52) Toluene                    | 10.24 | 92   | 111712   | 10.003  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene      | 10.46 | 75   | 65272    | 9.962   | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene    | 9.92  | 75   | 72649    | 9.941   | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane      | 10.64 | 97   | 36394    | 10.232  | ug/l   | 97       |
| 56) Ethyl methacrylate         | 10.51 | 69   | 45597    | 9.396   | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 10.79 | 76   | 62343    | 10.081  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether  | 9.78  | 63   | 125188   | 49.686  | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.83 | 43   | 125995   | 49.841  | ug/l   | 99       |
| 60) Dibromochloromethane       | 10.98 | 129  | 44734    | 9.877   | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 11.09 | 107  | 34199    | 9.947   | ug/l   | 99       |
| 64) Tetrachloroethene          | 10.72 | 164  | 57059    | 10.373  | ug/l   | 96       |
| 65) Chlorobenzene              | 11.52 | 112  | 124293   | 10.155  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 11.59 | 131  | 47070    | 10.087  | ug/l   | 98       |
| 67) Ethyl Benzene              | 11.59 | 91   | 217782   | 9.893   | ug/l   | 99       |
| 68) m/p-Xylenes                | 11.70 | 106  | 166854   | 19.886  | ug/l   | 100      |
| 69) o-Xylene                   | 12.03 | 106  | 76969    | 9.735   | ug/l   | 98       |
| 70) Styrene                    | 12.04 | 104  | 130845   | 9.704   | ug/l   | 98       |
| 71) Bromoform                  | 12.20 | 173  | 30883    | 9.893   | ug/l # | 98       |
| 73) Isopropylbenzene           | 12.33 | 105  | 211415   | 9.753   | ug/l   | 100      |
| 74) N-amyl acetate             | 12.14 | 43   | 61736    | 9.917   | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.58 | 83   | 41570    | 9.977   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.63 | 75   | 30222m   | 10.163  | ug/l   |          |
| 77) Bromobenzene               | 12.60 | 156  | 58097    | 10.141  | ug/l   | 97       |
| 78) n-propylbenzene            | 12.67 | 91   | 253276   | 9.844   | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.75 | 91   | 144017   | 9.973   | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.81 | 105  | 183941   | 9.919   | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.38 | 75   | 15068    | 9.551   | ug/l   | 94       |
| 82) 4-Chlorotoluene            | 12.85 | 91   | 153147   | 10.008  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 13.07 | 119  | 155012   | 9.600   | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.12 | 105  | 185982   | 9.934   | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.25 | 105  | 220835   | 9.934   | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.36 | 119  | 206865   | 9.733   | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 13.36 | 146  | 110091   | 10.018  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene        | 13.44 | 146  | 111986   | 10.300  | ug/l   | 98       |
| 89) n-Butylbenzene             | 13.69 | 91   | 190849   | 9.880   | ug/l   | 100      |
| 90) Hexachloroethane           | 13.95 | 117  | 31632    | 9.464   | ug/l   | 96       |
| 91) 1,2-Dichlorobenzene        | 13.74 | 146  | 99810    | 10.227  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.35 | 75   | 8386     | 10.758  | ug/l   | 94       |

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| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.00 | 180  | 74064    | 10.226 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 15.11 | 225  | 50088    | 10.627 | ug/l  | 100      |
| 95) Naphthalene            | 15.23 | 128  | 124735   | 9.719  | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.42 | 180  | 62889    | 9.982  | ug/l  | 100      |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

