

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY082124\  
 Data File : VY019189.D  
 Acq On : 21 Aug 2024 23:05  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDCCC050EC

Quant Time: Aug 22 01:22:52 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y081524S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 16 05:10:30 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024  
 Supervised By :Semsettin Yesilyurt 08/23/2024

08/23/2024  
 Supervised By :Semsettin  
 Yesilyurt

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 7.701  | 168  | 117531   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.609  | 114  | 194042   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.420 | 117  | 172121   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.352 | 152  | 87346    | 50.000 | ug/l  | 0.00     |

### System Monitoring Compounds

|                           |        |       |          |          |            |      |
|---------------------------|--------|-------|----------|----------|------------|------|
| 33) 1,2-Dichloroethane-d4 | 8.055  | 65    | 64833    | 55.029   | ug/l       | 0.00 |
| Spiked Amount             | 50.000 | Range | 50 - 163 | Recovery | = 110.060% |      |
| 35) Dibromofluoromethane  | 7.628  | 113   | 64247    | 50.638   | ug/l       | 0.00 |
| Spiked Amount             | 50.000 | Range | 54 - 147 | Recovery | = 101.280% |      |
| 50) Toluene-d8            | 10.103 | 98    | 230767   | 50.542   | ug/l       | 0.00 |
| Spiked Amount             | 50.000 | Range | 58 - 134 | Recovery | = 101.080% |      |
| 62) 4-Bromofluorobenzene  | 12.407 | 95    | 78175    | 50.225   | ug/l       | 0.00 |
| Spiked Amount             | 50.000 | Range | 29 - 146 | Recovery | = 100.460% |      |

### Target Compounds

|                              |       |     |        |         |        | Qvalue |
|------------------------------|-------|-----|--------|---------|--------|--------|
| 2) Dichlorodifluoromethane   | 1.867 | 85  | 36978  | 42.883  | ug/l   | 99     |
| 3) Chloromethane             | 2.062 | 50  | 72806  | 46.842  | ug/l   | 95     |
| 4) Vinyl Chloride            | 2.202 | 62  | 82178  | 42.804  | ug/l   | 98     |
| 5) Bromomethane              | 2.592 | 94  | 55087  | 46.590  | ug/l   | 91     |
| 6) Chloroethane              | 2.732 | 64  | 51922  | 41.838  | ug/l   | 95     |
| 7) Trichlorofluoromethane    | 3.049 | 101 | 117987 | 40.648  | ug/l   | 98     |
| 8) Diethyl Ether             | 3.452 | 74  | 29628  | 47.289  | ug/l   | 93     |
| 9) 1,1,2-Trichlorotrifluo... | 3.811 | 101 | 55377  | 42.914  | ug/l   | 99     |
| 10) Methyl Iodide            | 4.000 | 142 | 71902  | 56.847  | ug/l   | 94     |
| 11) Tert butyl alcohol       | 4.860 | 59  | 20655  | 196.949 | ug/l # | 85     |
| 12) 1,1-Dichloroethene       | 3.781 | 96  | 54261  | 46.283  | ug/l   | 93     |
| 13) Acrolein                 | 3.647 | 56  | 16445  | 180.363 | ug/l   | 92     |
| 14) Allyl chloride           | 4.378 | 41  | 78611  | 50.433  | ug/l   | 91     |
| 15) Acrylonitrile            | 5.049 | 53  | 63562  | 247.942 | ug/l   | 98     |
| 16) Acetone                  | 3.860 | 43  | 54932  | 251.413 | ug/l # | 87     |
| 17) Carbon Disulfide         | 4.098 | 76  | 154291 | 46.660  | ug/l   | 97     |
| 18) Methyl Acetate           | 4.378 | 43  | 33813  | 50.424  | ug/l   | 94     |
| 19) Methyl tert-butyl Ether  | 5.110 | 73  | 145763 | 51.283  | ug/l   | 97     |
| 20) Methylene Chloride       | 4.610 | 84  | 69605  | 51.629  | ug/l   | 95     |
| 21) trans-1,2-Dichloroethene | 5.104 | 96  | 64125  | 48.958  | ug/l   | 95     |
| 22) Diisopropyl ether        | 6.012 | 45  | 188391 | 52.796  | ug/l # | 92     |
| 23) Vinyl Acetate            | 5.951 | 43  | 708837 | 250.910 | ug/l   | 95     |
| 24) 1,1-Dichloroethane       | 5.909 | 63  | 109181 | 50.033  | ug/l   | 100    |
| 25) 2-Butanone               | 6.884 | 43  | 86081  | 244.635 | ug/l   | 93     |
| 26) 2,2-Dichloropropane      | 6.872 | 77  | 86710  | 49.069  | ug/l   | 98     |
| 27) cis-1,2-Dichloroethene   | 6.884 | 96  | 77362  | 50.189  | ug/l   | 97     |
| 28) Bromochloromethane       | 7.238 | 49  | 47167  | 51.527  | ug/l   | 95     |
| 29) Tetrahydrofuran          | 7.256 | 42  | 54789  | 242.220 | ug/l   | 90     |
| 30) Chloroform               | 7.408 | 83  | 125844 | 51.754  | ug/l   | 99     |
| 31) Cyclohexane              | 7.689 | 56  | 81300  | 48.077  | ug/l   | 98     |
| 32) 1,1,1-Trichloroethane    | 7.610 | 97  | 108599 | 50.820  | ug/l   | 96     |
| 36) 1,1-Dichloropropene      | 7.829 | 75  | 82865  | 47.562  | ug/l   | 99     |
| 37) Ethyl Acetate            | 6.976 | 43  | 39229  | 50.822  | ug/l   | 97     |
| 38) Carbon Tetrachloride     | 7.811 | 117 | 97395  | 48.238  | ug/l   | 95     |
| 39) Methylcyclohexane        | 9.103 | 83  | 88590  | 39.624  | ug/l   | 97     |
| 40) Benzene                  | 8.073 | 78  | 262284 | 49.086  | ug/l   | 97     |

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 Quant Title : SW846 8260  
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 Response via : Initial Calibration

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| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.213  | 41   | 20953    | 49.733  | ug/l   | 91       |
| 42) 1,2-Dichloroethane        | 8.146  | 62   | 74196    | 51.421  | ug/l   | 96       |
| 43) Isopropyl Acetate         | 8.189  | 43   | 76192    | 48.807  | ug/l # | 82       |
| 44) Trichloroethene           | 8.859  | 130  | 68446    | 45.908  | ug/l   | 95       |
| 45) 1,2-Dichloropropane       | 9.140  | 63   | 52923    | 44.454  | ug/l   | 94       |
| 46) Dibromomethane            | 9.225  | 93   | 34435    | 44.596  | ug/l   | 99       |
| 47) Bromodichloromethane      | 9.420  | 83   | 93898    | 49.566  | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.219  | 41   | 30517    | 43.864  | ug/l   | 90       |
| 49) 1,4-Dioxane               | 9.225  | 88   | 7753     | 828.872 | ug/l # | 97       |
| 51) 4-Methyl-2-Pentanone      | 9.999  | 43   | 204630   | 246.972 | ug/l   | 92       |
| 52) Toluene                   | 10.170 | 92   | 175982   | 50.173  | ug/l   | 94       |
| 53) t-1,3-Dichloropropene     | 10.396 | 75   | 81163    | 51.648  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene   | 9.853  | 75   | 94299    | 49.896  | ug/l # | 88       |
| 55) 1,1,2-Trichloroethane     | 10.572 | 97   | 48776    | 49.069  | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.438 | 69   | 65071    | 50.012  | ug/l # | 82       |
| 57) 1,3-Dichloropropane       | 10.719 | 76   | 80547    | 49.707  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 9.707  | 63   | 151093   | 244.789 | ug/l   | 97       |
| 59) 2-Hexanone                | 10.761 | 43   | 141106   | 247.888 | ug/l   | 90       |
| 60) Dibromochloromethane      | 10.914 | 129  | 67875    | 50.133  | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.017 | 107  | 48803    | 50.796  | ug/l   | 95       |
| 64) Tetrachloroethene         | 10.646 | 164  | 75642    | 50.278  | ug/l   | 98       |
| 65) Chlorobenzene             | 11.444 | 112  | 191565   | 48.335  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.517 | 131  | 69393    | 49.788  | ug/l   | 96       |
| 67) Ethyl Benzene             | 11.517 | 91   | 331004   | 48.118  | ug/l   | 97       |
| 68) m/p-Xylenes               | 11.627 | 106  | 263931   | 96.696  | ug/l   | 99       |
| 69) o-Xylene                  | 11.956 | 106  | 128293   | 50.756  | ug/l   | 96       |
| 70) Styrene                   | 11.969 | 104  | 216352   | 50.194  | ug/l   | 97       |
| 71) Bromoform                 | 12.133 | 173  | 40638    | 51.006  | ug/l # | 97       |
| 73) Isopropylbenzene          | 12.255 | 105  | 321213   | 47.981  | ug/l   | 100      |
| 74) N-amyl acetate            | 12.072 | 43   | 72003    | 49.323  | ug/l   | 91       |
| 75) 1,1,2,2-Tetrachloroethane | 12.511 | 83   | 53939    | 45.257  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.560 | 75   | 36344m   | 42.192  | ug/l   |          |
| 77) Bromobenzene              | 12.536 | 156  | 76439    | 47.543  | ug/l   | 99       |
| 78) n-propylbenzene           | 12.596 | 91   | 379735   | 47.449  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.682 | 91   | 217621   | 48.502  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene    | 12.737 | 105  | 265453   | 48.673  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75   | 16588    | 47.559  | ug/l # | 84       |
| 82) 4-Chlorotoluene           | 12.779 | 91   | 226153   | 48.447  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 12.999 | 119  | 235243   | 46.708  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene    | 13.048 | 105  | 265563   | 48.856  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.176 | 105  | 343332   | 46.779  | ug/l   | 98       |
| 86) p-Isopropyltoluene        | 13.298 | 119  | 292257   | 48.478  | ug/l   | 97       |
| 87) 1,3-Dichlorobenzene       | 13.291 | 146  | 150213   | 47.375  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.371 | 146  | 149893   | 47.557  | ug/l   | 98       |
| 89) n-Butylbenzene            | 13.621 | 91   | 255527   | 46.490  | ug/l   | 99       |
| 90) Hexachloroethane          | 13.883 | 117  | 56210    | 47.304  | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene       | 13.663 | 146  | 132115   | 47.376  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropr... | 14.279 | 75   | 8563     | 48.839  | ug/l   | 91       |
| 93) 1,2,4-Trichlorobenzene    | 14.925 | 180  | 73259    | 46.583  | ug/l   | 97       |
| 94) Hexachlorobutadiene       | 15.029 | 225  | 40731    | 49.724  | ug/l   | 98       |
| 95) Naphthalene               | 15.151 | 128  | 131970   | 47.020  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.334 | 180  | 63771    | 48.078  | ug/l   | 99       |

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MSVOA\_Y  
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VSTDCCC050EC

Manual Integrations  
APPROVED

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| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

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

