

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY120920\  
 Data File : VY003703.D  
 Acq On : 09 Dec 2020 16:11  
 Operator : SY/MD  
 Sample : L4979-12  
 Misc : 6.42G/10ML/MSVOA Y/SOIL  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 GB1G2

Manual Integrations  
 APPROVED

MMDadoda  
 12/11/2020 12:25:26 PM

Quant Time: Dec 10 03:42:42 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\SOM2YLM120420S.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Dec 10 02:27:01 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.70  | 114  | 85152    | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.49 | 117  | 72902    | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.43 | 152  | 23729    | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.25   | 65    | 27434    | 22.78    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 91.12%  |
| 7) Chloroethane-d5             | 2.77   | 69    | 22879    | 25.18    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 100.72% |
| 10) 1,1-Dichloroethene-d2      | 3.86   | 63    | 43362    | 19.13    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 76.52%  |
| 20) 2-Butanone-d5              | 6.91   | 46    | 20336    | 47.37    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 94.74%  |
| 24) Chloroform-d               | 7.49   | 84    | 55386    | 25.28    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 101.12% |
| 26) 1,2-Dichloroethane-d4      | 8.15   | 65    | 28988    | 23.51    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 94.04%  |
| 29) Benzene-d6                 | 8.12   | 84    | 114349   | 27.09    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 108.36% |
| 33) 1,2-Dichloropropane-d6     | 9.12   | 67    | 32952    | 26.38    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 105.52% |
| 37) Toluene-d8                 | 10.18  | 98    | 93508    | 24.72    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 98.88%  |
| 38) trans-1,3-Dichloropropene- | 10.44  | 79    | 14407    | 24.14    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 96.56%  |
| 39) 2-Hexanone-d5              | 10.79  | 63    | 15028    | 48.03    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 96.06%  |
| 48) 1,1,2,2-Tetrachloroethane- | 12.56  | 84    | 26135    | 23.49    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 93.96%  |
| 61) 1,2-Dichlorobenzene-d4     | 13.72  | 152   | 21510    | 24.95    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 99.80%  |

## Target Compounds

|                        |       |     |       |              | Ovalue |
|------------------------|-------|-----|-------|--------------|--------|
| 13) Acetone            | 3.96  | 43  | 3075  | 9.772 ug/L   | 67     |
| 16) Methylene chloride | 4.73  | 84  | 2971m | 1.987 ug/L   |        |
| 34) Benzene            | 8.17  | 78  | 2757  | 0.661 ug/L   | 100    |
| 36) Methylcyclohexane  | 9.20  | 83  | 1074  | 0.612 ug/L # | 83     |
| 44) Toluene            | 10.25 | 91  | 9155  | 2.081 ug/L   | 93     |
| 53) Ethylbenzene       | 11.59 | 91  | 8468  | 1.764 ug/L   | 98     |
| 54) m,p-Xylene         | 11.70 | 106 | 949   | 0.512 ug/L   | 96     |
| 55) o-xylene           | 12.03 | 106 | 478   | 0.269 ug/L # | 55     |

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

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