

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY120120\  
 Data File : VY003633.D  
 Acq On : 01 Dec 2020 13:03  
 Operator : SY/MD  
 Sample : VSTDICV025  
 Misc : 5.00G/10ML/MSVOA Y/SOIL  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VICV403

Quant Time: Dec 02 01:27:36 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\SFAMYL120120SMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Dec 01 12:34:20 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.69  | 114  | 248023   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.49 | 117  | 231217   | 25.00 | ug/L  | 0.00     |
| 58) 1,4-Dichlorobenzene-d4 | 13.42 | 152  | 121082   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.25   | 65    | 77511    | 23.92    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 95.68%  |
| 7) Chloroethane-d5             | 2.77   | 69    | 62207    | 24.74    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 98.96%  |
| 11) 1,1-Dichloroethene-d2      | 3.86   | 63    | 161639   | 25.06    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 100.24% |
| 21) 2-Butanone-d5              | 6.90   | 46    | 73849    | 53.08    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 106.16% |
| 24) Chloroform-d               | 7.48   | 84    | 161298   | 25.64    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 102.56% |
| 26) 1,2-Dichloroethane-d4      | 8.15   | 65    | 86939    | 25.52    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 102.08% |
| 32) Benzene-d6                 | 8.11   | 84    | 336126   | 25.58    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 102.32% |
| 36) 1,2-Dichloropropane-d6     | 9.12   | 67    | 103030   | 25.75    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 103.00% |
| 41) Toluene-d8                 | 10.18  | 98    | 302507   | 25.77    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 103.08% |
| 43) trans-1,3-Dichloropropene- | 10.43  | 79    | 49681    | 26.52    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 106.08% |
| 47) 2-Hexanone-d5              | 10.79  | 63    | 57886    | 54.13    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 108.26% |
| 56) 1,1,2,2-Tetrachloroethane- | 12.56  | 84    | 106175   | 26.23    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 104.92% |
| 66) 1,2-Dichlorobenzene-d4     | 13.72  | 152   | 112224   | 26.12    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 104.48% |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc   | Units | Ovalue |
|--------------------------------|------|------|----------|--------|-------|--------|
| 2) Dichlorodifluoromethane     | 1.91 | 85   | 73975    | 25.698 | ug/L  | 100    |
| 3) Chloromethane               | 2.11 | 50   | 79423    | 25.441 | ug/L  | 98     |
| 5) Vinyl chloride              | 2.25 | 62   | 87007    | 25.974 | ug/L  | 98     |
| 6) Bromomethane                | 2.66 | 94   | 53899    | 25.698 | ug/L  | 98     |
| 8) Chloroethane                | 2.80 | 64   | 53207    | 25.440 | ug/L  | 98     |
| 9) Trichlorofluoromethane      | 3.13 | 101  | 133298   | 26.220 | ug/L  | 99     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 3.91 | 101  | 86150    | 25.386 | ug/L  | 98     |
| 12) 1,1-Dichloroethene         | 3.88 | 96   | 83850    | 26.007 | ug/L  | 93     |
| 13) Acetone                    | 3.95 | 43   | 53261    | 53.418 | ug/L  | 94     |
| 14) Carbon disulfide           | 4.20 | 76   | 276667   | 25.976 | ug/L  | 100    |
| 15) Methyl Acetate             | 4.49 | 43   | 61078    | 25.438 | ug/L  | 98     |
| 16) Methylene chloride         | 4.73 | 84   | 99139    | 23.679 | ug/L  | 98     |
| 17) trans-1,2-Dichloroethene   | 5.23 | 96   | 90101    | 25.446 | ug/L  | 96     |
| 18) Methyl tert-butyl Ether    | 5.23 | 73   | 232109   | 26.821 | ug/L  | 99     |
| 19) 1,1-Dichloroethane         | 6.03 | 63   | 155455   | 26.081 | ug/L  | 99     |
| 20) cis-1,2-Dichloroethene     | 7.00 | 96   | 97144    | 26.160 | ug/L  | 96     |
| 22) 2-Butanone                 | 7.00 | 43   | 86291    | 51.478 | ug/L  | 100    |

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 Sample : VSTDICV025  
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 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VICV403

Quant Time: Dec 02 01:27:36 2020  
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 Quant Title : VOC Analysis  
 QLast Update : Tue Dec 01 12:34:20 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane         | 7.34  | 128  | 46929    | 25.914 | ug/L  | 98       |
| 25) Chloroform                 | 7.51  | 83   | 154705   | 25.907 | ug/L  | 97       |
| 27) 1,2-Dichloroethane         | 8.24  | 62   | 104254   | 26.522 | ug/L  | 98       |
| 29) Cyclohexane                | 7.79  | 56   | 146171   | 26.627 | ug/L  | 100      |
| 30) 1,1,1-Trichloroethane      | 7.71  | 97   | 135671   | 25.738 | ug/L  | 99       |
| 31) Carbon tetrachloride       | 7.90  | 117  | 124007   | 26.064 | ug/L  | 97       |
| 33) Benzene                    | 8.17  | 78   | 367245   | 25.988 | ug/L  | 100      |
| 34) Trichloroethene            | 8.94  | 95   | 90379    | 25.623 | ug/L  | 96       |
| 35) Methylcyclohexane          | 9.18  | 83   | 157766   | 26.160 | ug/L  | 99       |
| 37) 1,2-Dichloropropane        | 9.22  | 63   | 93674    | 26.115 | ug/L  | 99       |
| 38) Bromodichloromethane       | 9.50  | 83   | 117932   | 26.118 | ug/L  | 100      |
| 39) cis-1,3-Dichloropropene    | 9.93  | 75   | 148061   | 26.718 | ug/L  | 97       |
| 40) 4-Methyl-2-pentanone       | 10.07 | 43   | 170314   | 54.079 | ug/L  | 99       |
| 42) Toluene                    | 10.24 | 91   | 394150   | 26.551 | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene  | 10.47 | 75   | 135895   | 26.566 | ug/L  | 97       |
| 45) 1,1,2-Trichloroethane      | 10.64 | 97   | 77836    | 25.838 | ug/L  | 99       |
| 46) Tetrachloroethene          | 10.72 | 164  | 78148    | 25.887 | ug/L  | 97       |
| 48) 2-Hexanone                 | 10.83 | 43   | 126343   | 54.954 | ug/L  | 99       |
| 49) Dibromochloromethane       | 10.98 | 129  | 92126    | 26.463 | ug/L  | 98       |
| 50) 1,2-Dibromoethane          | 11.09 | 107  | 75689    | 25.978 | ug/L  | 99       |
| 51) Chlorobenzene              | 11.51 | 112  | 252143   | 26.362 | ug/L  | 98       |
| 52) Ethylbenzene               | 11.59 | 91   | 420159   | 26.451 | ug/L  | 98       |
| 53) m,p-Xylene                 | 11.70 | 106  | 165190   | 26.592 | ug/L  | 99       |
| 54) o-Xylene                   | 12.03 | 106  | 156354   | 26.648 | ug/L  | 96       |
| 55) Styrene                    | 12.04 | 104  | 273803   | 27.275 | ug/L  | 95       |
| 57) 1,1,2,2-Tetrachloroethane  | 12.58 | 83   | 104683   | 26.225 | ug/L  | 99       |
| 59) Bromoform                  | 12.20 | 173  | 63263    | 26.614 | ug/L  | 99       |
| 60) Isopropylbenzene           | 12.32 | 105  | 415939   | 26.871 | ug/L  | 99       |
| 61) 1,2,3-Trichloropropane     | 12.63 | 75   | 74542    | 25.744 | ug/L  | 100      |
| 62) 1,3,5-Trimethylbenzene     | 12.81 | 105  | 337286   | 27.479 | ug/L  | 99       |
| 63) 1,2,4-Trimethylbenzene     | 13.12 | 105  | 332483   | 27.416 | ug/L  | 99       |
| 64) 1,3-Dichlorobenzene        | 13.36 | 146  | 197887   | 26.422 | ug/L  | 96       |
| 65) 1,4-Dichlorobenzene        | 13.44 | 146  | 199125   | 26.166 | ug/L  | 99       |
| 67) 1,2-Dichlorobenzene        | 13.73 | 146  | 183976   | 26.162 | ug/L  | 99       |
| 68) 1,2-Dibromo-3-chloropropan | 14.35 | 75   | 17457    | 25.981 | ug/L  | 93       |
| 69) 1,3,5-Trichlorobenzene     | 14.50 | 180  | 139474   | 26.509 | ug/L  | 100      |
| 70) 1,2,4-trichlorobenzene     | 15.00 | 180  | 118438   | 26.429 | ug/L  | 100      |
| 71) Naphthalene                | 15.23 | 128  | 264066   | 26.991 | ug/L  | 99       |
| 72) 1,2,3-Trichlorobenzene     | 15.42 | 180  | 110981   | 26.964 | ug/L  | 99       |

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

