

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL072524\  
 Data File : VL041398.D  
 Acq On : 25 Jul 2024 13:19  
 Operator : SY/MD  
 Sample : VSTDICC0.5  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC0.5

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 07/26/2024  
 Supervised By :Mahesh Dadoda 07/29/2024

Quant Time: Jul 26 05:07:21 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL072524AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug 2

QLast Update : Fri Jul 26 05:07:02 2024

Response via : Initial Calibration

| Compound                | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|--------|------|----------|--------|-------|----------|
| -----                   |        |      |          |        |       |          |
| Internal Standards      |        |      |          |        |       |          |
| 1) Bromochloromethane   | 5.176  | 49   | 1163290  | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 6.639  | 114  | 3245422  | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 11.458 | 117  | 3043708  | 10.000 | ppbv  | # 0.00   |

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.770 95 2357044 10.071 ppbv 0.00  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.700%

Target Compounds

|                               |       |     |        |       |        | Qvalue |
|-------------------------------|-------|-----|--------|-------|--------|--------|
| 2) Dichlorodifluoromethane    | 2.709 | 85  | 109541 | 0.539 | ppbv   | 98     |
| 3) Chlorodifluoromethane      | 2.655 | 51  | 75741  | 0.549 | ppbv   | 100    |
| 4) Chloromethane              | 2.793 | 50  | 39649  | 0.546 | ppbv   | 96     |
| 5) Vinyl Chloride             | 2.906 | 62  | 36538  | 0.508 | ppbv # | 87     |
| 6) Bromomethane               | 3.102 | 94  | 19255  | 0.523 | ppbv   | 93     |
| 7) Chloroethane               | 3.179 | 64  | 13984  | 0.572 | ppbv   | 92     |
| 8) Dichlorotetrafluoroethane  | 2.838 | 85  | 92652  | 0.521 | ppbv   | 93     |
| 9) Propene                    | 2.671 | 41  | 33491  | 0.523 | ppbv   | 98     |
| 10) Heptane                   | 7.568 | 43  | 66249  | 0.465 | ppbv   | 97     |
| 11) Trichlorofluoromethane    | 3.545 | 101 | 94267  | 0.536 | ppbv   | 100    |
| 12) 1,1,2-Trichlorotrifluo... | 4.050 | 101 | 67103  | 0.527 | ppbv   | 99     |
| 13) Ethanol                   | 3.237 | 45  | 2541m  | 0.454 | ppbv   |        |
| 14) Bromoethene               | 3.346 | 108 | 24275  | 0.495 | ppbv # | 90     |
| 15) Acetone                   | 3.462 | 43  | 75165  | 0.574 | ppbv   | 100    |
| 16) 1,3-Butadiene             | 2.963 | 39  | 35196m | 0.505 | ppbv   |        |
| 17) tert-Butyl alcohol        | 3.870 | 59  | 59997  | 0.504 | ppbv   | 99     |
| 18) 1,1-Dichloroethene        | 3.864 | 96  | 26744  | 0.484 | ppbv   | 90     |
| 19) Isopropyl Alcohol         | 3.568 | 45  | 41335m | 0.559 | ppbv   |        |
| 20) Methylene Chloride        | 3.915 | 84  | 29173  | 0.603 | ppbv # | 93     |
| 21) Allyl Chloride            | 3.979 | 41  | 41531  | 0.483 | ppbv   | 94     |
| 22) trans-1,2-Dichloroethene  | 4.433 | 96  | 26864  | 0.500 | ppbv   | 93     |
| 23) Vinyl Acetate             | 4.616 | 43  | 45209  | 0.444 | ppbv # | 97     |
| 24) 1,1-Dichloroethane        | 4.545 | 63  | 62999  | 0.542 | ppbv # | 97     |
| 25) Ethyl Acetate             | 5.195 | 43  | 126641 | 0.485 | ppbv   | 99     |
| 26) Hexane                    | 5.192 | 57  | 52190  | 0.475 | ppbv   | 91     |
| 27) Carbon Disulfide          | 4.111 | 76  | 61342  | 0.489 | ppbv # | 93     |
| 28) Methyl tert-Butyl Ether   | 4.581 | 73  | 32882  | 0.475 | ppbv   | 95     |
| 29) Chloroform                | 5.256 | 83  | 90359  | 0.503 | ppbv   | 99     |
| 30) Cyclohexane               | 6.594 | 84  | 35035  | 0.389 | ppbv # | 88     |
| 31) cis-1,2-Dichloroethene    | 5.063 | 61  | 51136  | 0.472 | ppbv # | 87     |
| 32) 1,1,1-Trichloroethane     | 5.989 | 97  | 87155  | 0.508 | ppbv   | 97     |
| 34) 2-Butanone                | 4.787 | 43  | 75522m | 0.481 | ppbv   |        |
| 35) Carbon Tetrachloride      | 6.478 | 117 | 88027  | 0.495 | ppbv   | 86     |
| 36) Benzene                   | 6.356 | 78  | 112067 | 0.470 | ppbv   | 95     |
| 37) 1,2-Dichloroethane        | 5.793 | 62  | 66949  | 0.507 | ppbv   | 98     |
| 38) Trichloroethene           | 7.282 | 130 | 52825  | 0.488 | ppbv   | 98     |
| 39) 1,2-Dichloropropane       | 7.060 | 63  | 43368  | 0.473 | ppbv   | 95     |
| 40) 1,4-Dioxane               | 7.304 | 88  | 21057m | 0.633 | ppbv   |        |
| 41) Tetrahydrofuran           | 5.568 | 42  | 36699  | 0.403 | ppbv   | 98     |
| 42) Bromodichloromethane      | 7.237 | 83  | 92906  | 0.486 | ppbv   | 98     |
| 43) Methyl Methacrylate       | 7.465 | 69  | 33258  | 0.386 | ppbv   | 91     |
| 44) 2,2,4-Trimethylpentane    | 7.314 | 57  | 189569 | 0.479 | ppbv   | 94     |
| 45) t-1,3-Dichloropropene     | 8.700 | 75  | 26864m | 0.341 | ppbv   |        |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL072524\  
 Data File : VL041398.D  
 Acq On : 25 Jul 2024 13:19  
 Operator : SY/MD  
 Sample : VSTDICC0.5  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC0.5

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 07/26/2024  
 Supervised By :Mahesh Dadoda 07/29/2024

Quant Time: Jul 26 05:07:21 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL072524AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug 2

QLast Update : Fri Jul 26 05:07:02 2024

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 8.134  | 75   | 43823m   | 0.384 | ppbv   |          |
| 47) 1,1,2-Trichloroethane     | 8.886  | 97   | 50232    | 0.505 | ppbv   | 95       |
| 48) Dibromochloromethane      | 9.700  | 129  | 72480    | 0.452 | ppbv   | 100      |
| 49) Bromoform                 | 12.400 | 173  | 57383    | 0.423 | ppbv   | 95       |
| 50) 4-Methyl-2-Pentanone      | 8.185  | 43   | 104559m  | 0.417 | ppbv   |          |
| 51) 2-Hexanone                | 9.558  | 43   | 64659    | 0.338 | ppbv # | 97       |
| 52) Tetrachloroethene         | 10.600 | 164  | 44583    | 0.486 | ppbv   | 92       |
| 53) Toluene                   | 9.211  | 91   | 110057   | 0.411 | ppbv   | 98       |
| 54) 1,2-Dibromoethane         | 10.002 | 107  | 61242    | 0.455 | ppbv   | 89       |
| 56) 1,1,1,2-Tetrachloroethane | 11.497 | 131  | 61039    | 0.519 | ppbv # | 1        |
| 57) Chlorobenzene             | 11.516 | 112  | 113739   | 0.524 | ppbv   | 94       |
| 58) Ethyl Benzene             | 12.079 | 91   | 156513   | 0.441 | ppbv   | 96       |
| 59) m/p-Xylene                | 12.365 | 91   | 284326m  | 0.936 | ppbv   |          |
| 60) o-Xylene                  | 13.050 | 91   | 128195   | 0.440 | ppbv   | 99       |
| 61) Styrene                   | 12.889 | 104  | 47561    | 0.362 | ppbv   | 94       |
| 62) Isopropylbenzene          | 14.018 | 105  | 213603m  | 0.492 | ppbv   |          |
| 63) 1,1,2,2-Tetrachloroethane | 13.040 | 83   | 95214    | 0.526 | ppbv   | 97       |
| 64) n-propylbenzene           | 14.915 | 120  | 53748m   | 0.473 | ppbv   |          |
| 65) tert-Butylbenzene         | 16.082 | 119  | 187031m  | 0.476 | ppbv   |          |
| 66) Benzyl Chloride           | 16.323 | 91   | 10564m   | 0.422 | ppbv   |          |
| 67) sec-Butylbenzene          | 16.632 | 105  | 249741   | 0.458 | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 16.992 | 119  | 197625   | 0.434 | ppbv   | 96       |
| 70) n-Butylbenzene            | 17.886 | 91   | 204999   | 0.443 | ppbv   | 98       |
| 71) 2-Chlorotoluene           | 14.796 | 91   | 150717   | 0.465 | ppbv   | 100      |
| 72) 4-Ethyltoluene            | 15.188 | 105  | 148551   | 0.441 | ppbv   | 97       |
| 73) 1,3,5-Trimethylbenzene    | 15.346 | 105  | 126480   | 0.429 | ppbv   | 92       |
| 74) 1,2,4-Trimethylbenzene    | 16.098 | 105  | 157396m  | 0.463 | ppbv   |          |
| 75) 1,3-Dichlorobenzene       | 16.326 | 146  | 100938   | 0.476 | ppbv   | 94       |
| 76) 1,4-Dichlorobenzene       | 16.468 | 146  | 102368m  | 0.492 | ppbv   |          |
| 77) 1,2-Dichlorobenzene       | 17.143 | 146  | 105386m  | 0.503 | ppbv   |          |
| 78) Hexachloro-1,3-Butadiene  | 22.631 | 225  | 94555m   | 0.520 | ppbv   |          |
| 79) Naphthalene               | 21.387 | 128  | 123028m  | 0.412 | ppbv   |          |
| 80) Naphthalene,2-methyl-     | 24.374 | 142  | 75989    | 0.313 | ppbv   | 93       |
| 81) 1,2,4-Trichlorobenzene    | 21.143 | 180  | 76641m   | 0.428 | ppbv   |          |

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

