

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101123\
 Data File : VL040757.D
 Acq On : 11 Oct 2023 13:56
 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 10/12/2023
 Supervised By :Mahesh Dadoda 10/16/2023

Quant Time: Oct 11 14:29:25 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101123AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2023

QLast Update : Wed Oct 11 14:05:42 2023

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.211	49	1094363	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.668	114	3052709	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.475	117	2842110	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.786 95 2118860 9.649 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 96.500%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.758	85	99417	0.412	ppbv	95
3) Chlorodifluoromethane	2.703	51	83763	0.470	ppbv	100
4) Chloromethane	2.838	50	33123	0.485	ppbv	98
5) Vinyl Chloride	2.948	62	31519	0.391	ppbv	95
6) Bromomethane	3.147	94	13121	0.337	ppbv	97
7) Chloroethane	3.227	64	11390m	0.411	ppbv	
8) Dichlorotetrafluoroethane	2.883	85	76983	0.387	ppbv	99
9) Propene	2.722	41	30266	0.589	ppbv	88
10) Heptane	7.597	43	78353m	0.677	ppbv	
11) Trichlorofluoromethane	3.587	101	74622	0.352	ppbv	98
12) 1,1,2-Trichlorotrifluo...	4.089	101	54776	0.361	ppbv	100
13) Ethanol	3.288	45	7319m	0.481	ppbv	
14) Bromoethene	3.391	108	21024	0.331	ppbv #	82
15) Acetone	3.507	43	56640	0.392	ppbv #	84
16) 1,3-Butadiene	3.012	39	30941	0.492	ppbv	94
17) tert-Butyl alcohol	3.915	59	64734	0.438	ppbv	94
18) 1,1-Dichloroethene	3.906	96	23924	0.355	ppbv	82
19) Isopropyl Alcohol	3.616	45	43134m	0.496	ppbv	
20) Methylene Chloride	3.954	84	30282m	0.390	ppbv	
21) Allyl Chloride	4.018	41	37041	0.419	ppbv #	82
22) trans-1,2-Dichloroethene	4.468	96	25956	0.390	ppbv	97
23) Vinyl Acetate	4.655	43	63739	0.427	ppbv #	89
24) 1,1-Dichloroethane	4.584	63	50191	0.359	ppbv	97
25) Ethyl Acetate	5.230	43	131656	0.566	ppbv	97
26) Hexane	5.230	57	60137	0.546	ppbv	94
27) Carbon Disulfide	4.147	76	60331	0.393	ppbv #	77
28) Methyl tert-Butyl Ether	4.616	73	38062	0.402	ppbv #	89
29) Chloroform	5.292	83	83383	0.439	ppbv	100
30) Cyclohexane	6.616	84	51933m	0.626	ppbv	
31) cis-1,2-Dichloroethene	5.099	61	49041	0.480	ppbv #	89
32) 1,1,1-Trichloroethane	6.021	97	84702	0.436	ppbv	97
34) 2-Butanone	4.816	43	67102m	0.437	ppbv	
35) Carbon Tetrachloride	6.510	117	82829	0.395	ppbv	93
36) Benzene	6.385	78	115848	0.512	ppbv	95
37) 1,2-Dichloroethane	5.822	62	58166m	0.376	ppbv	
38) Trichloroethene	7.304	130	47237m	0.548	ppbv	
39) 1,2-Dichloropropane	7.089	63	48131m	0.553	ppbv	
40) 1,4-Dioxane	7.336	88	18389m	0.559	ppbv	
41) Tetrahydrofuran	5.597	42	45060	0.572	ppbv	93
42) Bromodichloromethane	7.266	83	85882	0.407	ppbv	95
43) Methyl Methacrylate	7.497	69	45834m	0.545	ppbv	
44) 2,2,4-Trimethylpentane	7.340	57	200234	0.556	ppbv	99
45) t-1,3-Dichloropropene	8.722	75	32320m	0.496	ppbv	

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Wed Oct 11 14:05:42 2023

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.153	75	43905m	0.551	ppbv	
47) 1,1,2-Trichloroethane	8.909	97	49079	0.491	ppbv	97
48) Dibromochloromethane	9.719	129	74279	0.451	ppbv	99
49) Bromoform	12.420	173	54362	0.402	ppbv	91
50) 4-Methyl-2-Pentanone	8.214	43	114001	0.550	ppbv	93
51) 2-Hexanone	9.587	43	92671m	0.647	ppbv	
52) Tetrachloroethene	10.622	164	48078	0.652	ppbv	87
53) Toluene	9.230	91	143933	0.603	ppbv	100
54) 1,2-Dibromoethane	10.018	107	68655m	0.539	ppbv	
56) 1,1,1,2-Tetrachloroethane	11.523	131	61414	0.453	ppbv #	1
57) Chlorobenzene	11.542	112	111301m	0.517	ppbv	
58) Ethyl Benzene	12.102	91	196511m	0.606	ppbv	
59) m/p-Xylene	12.362	91	319882m	1.051	ppbv	
60) o-Xylene	13.073	91	152288	0.525	ppbv	100
61) Styrene	12.905	104	79990m	0.658	ppbv	
62) Isopropylbenzene	14.040	105	235436	0.537	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.063	83	101599	0.447	ppbv	96
64) n-propylbenzene	14.931	120	60801m	0.555	ppbv	
65) tert-Butylbenzene	16.101	119	217181	0.552	ppbv	98
66) Benzyl Chloride	16.333	91	17104m	0.373	ppbv	
67) sec-Butylbenzene	16.648	105	288863	0.513	ppbv	99
69) p-Isopropyltoluene	17.011	119	236219	0.534	ppbv	99
70) n-Butylbenzene	17.899	91	231315	0.475	ppbv	99
71) 2-Chlorotoluene	14.809	91	178303	0.550	ppbv	99
72) 4-Ethyltoluene	15.204	105	166645	0.512	ppbv #	95
73) 1,3,5-Trimethylbenzene	15.362	105	152449	0.520	ppbv	94
74) 1,2,4-Trimethylbenzene	16.114	105	167891	0.470	ppbv #	84
75) 1,3-Dichlorobenzene	16.346	146	105188m	0.517	ppbv	
76) 1,4-Dichlorobenzene	16.484	146	105231m	0.526	ppbv	
77) 1,2-Dichlorobenzene	17.166	146	108268m	0.534	ppbv	
78) Hexachloro-1,3-Butadiene	22.648	225	77973	0.508	ppbv	96
79) Naphthalene	21.400	128	123945m	0.558	ppbv	
80) Naphthalene,2-methyl-	24.394	142	26726m	0.491	ppbv	
81) 1,2,4-Trichlorobenzene	21.159	180	66522m	0.458	ppbv	

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

