

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL021425\
 Data File : VL042014.D
 Acq On : 14 Feb 2025 11:50
 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 02/17/2025
 Supervised By : Mahesh Dadoda 02/17/2025

Quant Time: Feb 14 12:18:39 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL021425AIR.M

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

QLast Update : Tue Jan 14 23:15:42 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.781	49	90340	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	3.943	114	292797	10.000	ppbv	-0.03
55) Chlorobenzene-d5	8.865	117	274530	10.000	ppbv	-0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.364 95 229446 10.611 ppbv -0.03
 Spiked Amount 10.000 Range 65 - 135 Recovery = 106.100%

Target Compounds

					Qvalue	
2) Dichlorodifluoromethane	1.496	85	9019m	0.733	ppbv	
3) Chlorodifluoromethane	1.473	51	9050	0.702	ppbv	95
4) Chloromethane	1.528	50	3267	0.706	ppbv	94
5) Vinyl Chloride	1.577	62	3296	0.703	ppbv #	87
6) Bromomethane	1.664	94	1759	0.787	ppbv	96
7) Chloroethane	1.700	64	1660	0.910	ppbv	96
8) Dichlorotetrafluoroethane	1.551	85	7552	0.702	ppbv	92
9) Propene	1.479	41	4680	0.881	ppbv	85
10) Heptane	4.969	43	12004m	0.846	ppbv	
11) Trichlorofluoromethane	1.871	101	9283	0.725	ppbv	92
12) 1,1,2-Trichlorotrifluo...	2.133	101	7114	0.709	ppbv	99
13) Ethanol	1.716	45	1254m	3.224	ppbv	
14) Bromoethene	1.777	108	2586	0.704	ppbv #	83
15) Acetone	1.832	43	9683	0.892	ppbv #	89
16) 1,3-Butadiene	1.602	39	4492	0.922	ppbv	88
17) tert-Butyl alcohol	2.036	59	10325	0.773	ppbv #	38
18) 1,1-Dichloroethene	2.334	96	3467	0.767	ppbv	95
19) Isopropyl Alcohol	1.881	45	5429	0.844	ppbv #	41
20) Methylene Chloride	2.052	84	4392	1.024	ppbv #	88
21) Allyl Chloride	2.091	41	6543	0.871	ppbv	94
22) trans-1,2-Dichloroethene	2.334	96	3324	0.651	ppbv	82
23) Vinyl Acetate	2.454	43	4864m	0.904	ppbv	
24) 1,1-Dichloroethane	2.402	63	7027	0.712	ppbv #	88
25) Ethyl Acetate	2.832	43	20964	0.716	ppbv #	95
26) Hexane	2.819	57	8864	0.766	ppbv	92
27) Carbon Disulfide	2.143	76	8187	0.715	ppbv #	1
28) Methyl tert-Butyl Ether	2.434	73	5052	0.571	ppbv #	53
29) Chloroform	2.839	83	12864	0.703	ppbv	86
30) Cyclohexane	3.839	84	8131m	0.810	ppbv	
31) cis-1,2-Dichloroethene	2.709	61	8839m	0.725	ppbv	
32) 1,1,1-Trichloroethane	3.357	97	12903	0.737	ppbv	100
34) 2-Butanone	2.554	43	12882	0.692	ppbv	99
35) Carbon Tetrachloride	3.748	117	12191	0.663	ppbv	93
36) Benzene	3.645	78	17386	0.647	ppbv	97
37) 1,2-Dichloroethane	3.205	62	10338m	0.685	ppbv	
38) Trichloroethene	4.538	130	7255m	0.681	ppbv	
39) 1,2-Dichloropropane	4.305	63	6906m	0.733	ppbv	
40) 1,4-Dioxane	4.583	88	3738m	0.786	ppbv	
41) Tetrahydrofuran	3.056	42	7505m	0.742	ppbv	
42) Bromodichloromethane	4.477	83	13726m	0.679	ppbv	
43) Methyl Methacrylate	4.868	69	9375m	0.940	ppbv	
44) 2,2,4-Trimethylpentane	4.625	57	30369	0.699	ppbv	95
45) t-1,3-Dichloropropene	6.396	75	7909m	0.847	ppbv	

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Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.580	75	10391m	0.848	ppbv	
47) 1,1,2-Trichloroethane	6.567	97	7326m	0.734	ppbv	
48) Dibromochloromethane	7.373	129	11898m	0.772	ppbv	
49) Bromoform	9.467	173	9521	0.752	ppbv	98
50) 4-Methyl-2-Pentanone	5.755	43	21804m	0.858	ppbv	
51) 2-Hexanone	7.432	43	18203m	0.932	ppbv	
52) Tetrachloroethene	8.208	164	6688	0.718	ppbv #	78
53) Toluene	6.917	91	22653m	0.774	ppbv	
54) 1,2-Dibromoethane	7.639	107	9801m	0.714	ppbv	
56) 1,1,1,2-Tetrachloroethane	8.911	131	10495	0.766	ppbv #	58
57) Chlorobenzene	8.904	112	16715	0.660	ppbv #	95
58) Ethyl Benzene	9.341	91	29697	0.692	ppbv	97
59) m/p-Xylene	9.539	91	49128m	1.429	ppbv	
60) o-Xylene	9.950	91	23714	0.695	ppbv	96
61) Styrene	9.859	104	11400	0.744	ppbv	96
62) Isopropylbenzene	10.529	105	36552	0.692	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.953	83	15043	0.690	ppbv #	96
64) n-propylbenzene	10.979	120	9365	0.702	ppbv	98
65) tert-Butylbenzene	11.523	119	32688	0.679	ppbv	96
66) Benzyl Chloride	11.604	91	3233	1.085	ppbv	94
67) sec-Butylbenzene	11.759	105	44600	0.673	ppbv	97
69) p-Isopropyltoluene	11.918	119	38366	0.703	ppbv	99
70) n-Butylbenzene	12.274	91	36156	0.668	ppbv	97
71) 2-Chlorotoluene	10.892	91	27753	0.710	ppbv	98
72) 4-Ethyltoluene	11.115	105	29575	0.724	ppbv	98
73) 1,3,5-Trimethylbenzene	11.193	105	24507	0.680	ppbv	91
74) 1,2,4-Trimethylbenzene	11.526	105	26661	0.683	ppbv #	85
75) 1,3-Dichlorobenzene	11.600	146	13869	0.599	ppbv	94
76) 1,4-Dichlorobenzene	11.665	146	14476	0.639	ppbv	96
77) 1,2-Dichlorobenzene	11.940	146	13710	0.598	ppbv	94
78) Hexachloro-1,3-Butadiene	13.876	225	12558	0.667	ppbv	96
79) Naphthalene	13.507	128	27842	0.708	ppbv	99
80) Naphthalene,2-methyl-	14.452	142	12746	0.684	ppbv	98
81) 1,2,4-Trichlorobenzene	13.432	180	10302	0.537	ppbv	97

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

