

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX100725\
 Data File : VX048052.D
 Acq On : 07 Oct 2025 17:01
 Operator : JC/MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC005

Quant Time: Oct 08 02:16:26 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X100725W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Oct 08 02:15:43 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 10/08/2025
 Supervised By : Mahesh Dadoda 10/09/2025

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

Internal Standards						
1) Bromochloromethane	4.891	128	26925m	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.745	114	174257	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.037	117	165496	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.940	65	85350	36.752	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 122.500%#			
60) 4-Bromofluorobenzene	11.067	95	79768	28.659	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 95.533%			
63) Toluene-d8	8.635	98	219648	29.748	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.167%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.172	85	8971	4.853	ug/l	96
3) Chloromethane	1.300	50	10958	5.662	ug/l	93
4) Vinyl Chloride	1.380	62	10363	5.494	ug/l	96
5) Bromomethane	1.617	94	6776	6.114	ug/l	100
6) Chloroethane	1.697	64	7246	6.464	ug/l	96
7) Trichlorofluoromethane	1.898	101	15900	5.979	ug/l	99
8) Diethyl Ether	2.136	74	6231	6.487	ug/l	94
9) 1,1,2-Trichlorotrifluo...	2.343	101	8010m	4.775	ug/l	
10) 1,1-Dichloroethene	2.325	96	8668	5.123	ug/l	94
11) Methyl Iodide	2.459	142	7756m	3.522	ug/l	
12) Methyl Acetate	2.703	43	11991	6.116	ug/l	96
13) Acrolein	2.239	56	9443	39.215	ug/l	91
14) Acrylonitrile	3.062	53	26400	29.649	ug/l	93
15) Acetone	2.380	58	6437	31.182	ug/l	93
16) Carbon Disulfide	2.520	76	28075	5.831	ug/l	100
17) Allyl chloride	2.666	41	15892	5.202	ug/l	97
18) Methylene Chloride	2.788	84	11973	6.313	ug/l	94
19) trans-1,2-Dichloroethene	3.093	96	8556	4.814	ug/l	90
20) Diisopropyl ether	3.757	45	35038	5.869	ug/l	88
21) 1,1-Dichloroethane	3.605	63	19915	5.920	ug/l	98
22) cis-1,2-Dichloroethene	4.489	96	12442m	6.067	ug/l	
23) tert-Butyl Alcohol	2.947	59	6842	35.918	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	31337	5.874	ug/l	100
25) Chloroform	5.086	83	19803	5.736	ug/l	100
26) Cyclohexane	5.464	56	14085	4.753	ug/l #	94
29) 1,1-Dichloropropene	5.690	75	12212	4.549	ug/l #	55
30) 2-Butanone	4.556	43	30487	24.872	ug/l #	83
31) 2,2-Dichloropropane	4.471	77	13321	5.324	ug/l #	89
32) 1,1,1-Trichloroethane	5.379	97	15742m	4.688	ug/l	
33) Carbon Tetrachloride	5.672	117	9906m	3.428	ug/l	
34) Benzene	6.025	78	42065	5.226	ug/l	96
35) Methacrylonitrile	4.916	41	7052m	4.684	ug/l	
36) 1,2-Dichloroethane	6.074	62	15940	5.268	ug/l	96
37) Trichloroethene	7.117	130	10019	5.006	ug/l	89
38) Methylcyclohexane	7.366	83	13582	4.068	ug/l	100
39) 1,2-Dichloropropane	7.421	63	10904	5.389	ug/l #	80
40) Dibromomethane	7.574	93	6902	4.557	ug/l #	62
41) Bromodichloromethane	7.805	83	16374	5.355	ug/l	98
42) Vinyl Acetate	3.721	43	135871	24.717	ug/l	97

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.708	43	11487	4.414	ug/l #	88
44) Isopropyl Acetate	6.330	43	22259m	5.352	ug/l	
45) 1,4-Dioxane	7.659	88	2566m	99.626	ug/l	
46) Methyl methacrylate	7.683	41	10629	4.821	ug/l	94
47) n-amyl Acetate	10.829	43	17710	4.709	ug/l	98
48) t-1,3-Dichloropropene	8.970	75	15011	5.304	ug/l	100
49) cis-1,3-Dichloropropene	8.354	75	15911	5.087	ug/l	97
50) 1,1,2-Trichloroethane	9.141	97	10575	5.534	ug/l	98
51) Ethyl methacrylate	9.104	69	13621	4.715	ug/l	95
52) 1,3-Dichloropropane	9.293	76	17732	5.358	ug/l	100
53) Dibromochloromethane	9.506	129	7293	3.472	ug/l #	19
54) 1,2-Dibromoethane	9.598	107	9647	4.812	ug/l	99
55) 2-Chloroethyl vinyl ether	8.232	63	29238	19.571	ug/l	99
58) 4-Methyl-2-Pentanone	8.561	43	65617	24.120	ug/l	99
59) 2-Hexanone	9.415	43	44327	23.294	ug/l	98
61) Tetrachloroethene	9.262	164	8351	4.880	ug/l	90
62) Toluene	8.708	91	45139	5.054	ug/l	98
64) Chlorobenzene	10.067	112	29302	5.077	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.146	131	9059	4.642	ug/l #	77
66) Ethyl Benzene	10.177	91	46198	4.581	ug/l	99
67) m/p-Xylenes	10.287	106	34773	9.250	ug/l	99
68) o-Xylene	10.628	106	15946	4.426	ug/l	98
69) Styrene	10.640	104	27428	4.411	ug/l	99
70) Isopropylbenzene	10.945	105	41858	4.360	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.195	83	12990	4.522	ug/l	95
72) 1,2,3-Trichloropropane	11.219	75	12642m	5.214	ug/l	
73) Bromobenzene	11.183	156	12076	5.299	ug/l	86
74) n-propylbenzene	11.286	91	51907	4.528	ug/l	99
75) 2-Chlorotoluene	11.347	91	33331	4.823	ug/l	100
76) 1,3,5-Trimethylbenzene	11.433	105	35170	4.418	ug/l	100
77) t-1,4-Dichloro-2-butene	11.000	75	3320m	4.023	ug/l	
78) 4-Chlorotoluene	11.439	91	38278	4.783	ug/l	99
79) tert-butylbenzene	11.695	119	34352	4.368	ug/l	98
80) 1,2,4-Trimethylbenzene	11.732	105	34383	4.357	ug/l	98
81) sec-Butylbenzene	11.872	105	42326	4.221	ug/l	99
82) p-Isopropyltoluene	11.994	119	33458	4.061	ug/l	96
83) 1,3-Dichlorobenzene	11.951	146	21273	5.034	ug/l	95
84) 1,4-Dichlorobenzene	12.024	146	21448	5.041	ug/l	98
85) n-Butylbenzene	12.317	91	30710	3.904	ug/l	99
86) Hexachloroethane	12.518	117	3569	2.643	ug/l #	1
87) 1,2-Dichlorobenzene	12.317	146	19736	4.851	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.926	75	2319	3.977	ug/l #	71
89) 1,2,4-Trichlorobenzene	13.567	180	10610	4.031	ug/l	96
91) Naphthalene	13.756	128	29976	3.609	ug/l	98
92) 1,2,3-Trichlorobenzene	13.945	180	10937	4.269	ug/l	91

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

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