

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061025\
 Data File : VX046617.D
 Acq On : 10 Jun 2025 21:22
 Operator : JC/MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC100

Quant Time: Jun 11 05:59:07 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061025W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jun 11 05:53:18 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 06/11/2025
 Supervised By : Mahesh Dadoda 06/11/2025

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

Internal Standards						
1) Bromochloromethane	4.910	128	18480	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	101087	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	90301	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.964	65	46278	26.584	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	88.600%#		
60) 4-Bromofluorobenzene	11.079	95	44924	27.136	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	90.467%		
63) Toluene-d8	8.653	98	121203	25.219	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	84.067%#		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.179	85	126953	84.439	ug/l	97
3) Chloromethane	1.307	50	127847	72.676	ug/l	97
4) Vinyl Chloride	1.386	62	125947	73.958	ug/l	98
5) Bromomethane	1.618	94	67188	101.096	ug/l	98
6) Chloroethane	1.697	64	71567	78.929	ug/l	98
7) Trichlorofluoromethane	1.904	101	182315	78.301	ug/l	100
8) Diethyl Ether	2.148	74	63050	72.732	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.343	101	118050	83.957	ug/l	99
10) 1,1-Dichloroethene	2.337	96	117733	86.139	ug/l	98
11) Methyl Iodide	2.465	142	162711	99.752	ug/l	99
12) Methyl Acetate	2.715	43	134440	78.621	ug/l	99
13) Acrolein	2.252	56	80516	273.923	ug/l	99
14) Acrylonitrile	3.075	53	303346	397.435	ug/l	100
15) Acetone	2.386	58	71106	351.507	ug/l	95
16) Carbon Disulfide	2.526	76	330142	84.972	ug/l	99
17) Allyl chloride	2.678	41	214540	83.951	ug/l	96
18) Methylene Chloride	2.800	84	124706	81.549	ug/l	96
19) trans-1,2-Dichloroethene	3.105	96	119413	86.099	ug/l	99
20) Diisopropyl ether	3.770	45	406048	83.005	ug/l	90
21) 1,1-Dichloroethane	3.623	63	227553	83.430	ug/l	98
22) cis-1,2-Dichloroethene	4.501	96	139255	83.913	ug/l	97
23) tert-Butyl Alcohol	2.965	59	64891	261.163	ug/l #	100
24) Methyl tert-Butyl Ether	3.123	73	368205	83.260	ug/l	98
25) Chloroform	5.105	83	233034	87.654	ug/l	95
26) Cyclohexane	5.483	56	209782	83.567	ug/l #	100
29) 1,1-Dichloropropene	5.702	75	163173	88.439	ug/l	98
30) 2-Butanone	4.562	43	375531	369.450	ug/l	99
31) 2,2-Dichloropropane	4.489	77	148694	74.259	ug/l	98
32) 1,1,1-Trichloroethane	5.391	97	206409	92.045	ug/l	98
33) Carbon Tetrachloride	5.690	117	182507	95.711	ug/l	99
34) Benzene	6.050	78	476940	83.690	ug/l	100
35) Methacrylonitrile	4.928	41	93603	84.745	ug/l	97
36) 1,2-Dichloroethane	6.092	62	180713	90.478	ug/l	99
37) Trichloroethene	7.129	130	118601	88.401	ug/l	90
38) Methylcyclohexane	7.385	83	210185	85.889	ug/l	96
39) 1,2-Dichloropropane	7.434	63	118552	83.951	ug/l	91
40) Dibromomethane	7.586	93	87518	85.415	ug/l	99
41) Bromodichloromethane	7.824	83	184639	89.807	ug/l #	97
42) Vinyl Acetate	3.733	43	1716533	434.505	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.721	43	161006m	82.655	ug/l	
44) Isopropyl Acetate	6.348	43	265905	83.629	ug/l	99
45) 1,4-Dioxane	7.659	88	30924	1008.598	ug/l #	90
46) Methyl methacrylate	7.696	41	139613	87.615	ug/l	97
47) n-amyl Acetate	10.841	43	231600	85.267	ug/l	98
48) t-1,3-Dichloropropene	8.976	75	174247	89.095	ug/l	99
49) cis-1,3-Dichloropropene	8.366	75	190854	86.882	ug/l	99
50) 1,1,2-Trichloroethane	9.153	97	109109	82.533	ug/l	96
51) Ethyl methacrylate	9.116	69	180726	86.556	ug/l	96
52) 1,3-Dichloropropane	9.311	76	191705	82.538	ug/l	98
53) Dibromochloromethane	9.519	129	134118	90.555	ug/l	99
54) 1,2-Dibromoethane	9.610	107	116714	86.355	ug/l	100
55) 2-Chloroethyl vinyl ether	8.244	63	498407	462.783	ug/l	99
56) Bromoform	10.799	173	83888	89.774	ug/l	98
58) 4-Methyl-2-Pentanone	8.574	43	782773	399.516	ug/l	99
59) 2-Hexanone	9.427	43	549776	389.020	ug/l	98
61) Tetrachloroethene	9.275	164	93766	85.997	ug/l	98
62) Toluene	8.720	91	506147	86.377	ug/l	100
64) Chlorobenzene	10.079	112	321168	88.290	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.165	131	110074	91.070	ug/l	99
66) Ethyl Benzene	10.195	91	577722	89.331	ug/l	99
67) m/p-Xylenes	10.299	106	423852	177.301	ug/l	98
68) o-Xylene	10.640	106	203409	87.056	ug/l	99
69) Styrene	10.652	104	351137	89.064	ug/l	99
70) Isopropylbenzene	10.963	105	540361	88.877	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	154296	78.260	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	130638m	80.319	ug/l	
73) Bromobenzene	11.195	156	126288	90.009	ug/l	98
74) n-propylbenzene	11.305	91	651781	89.532	ug/l	100
75) 2-Chlorotoluene	11.366	91	384866	87.839	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	448179	89.103	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	49424	89.342	ug/l	88
78) 4-Chlorotoluene	11.451	91	443031	89.645	ug/l	99
79) tert-butylbenzene	11.713	119	452187	89.460	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	446143	88.856	ug/l	99
81) sec-Butylbenzene	11.890	105	569918	89.319	ug/l	100
82) p-Isopropyltoluene	12.006	119	470629	90.626	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	231179	88.341	ug/l	100
84) 1,4-Dichlorobenzene	12.036	146	230534	88.720	ug/l	98
85) n-Butylbenzene	12.329	91	451055	93.511	ug/l	98
86) Hexachloroethane	12.536	117	85307	92.816	ug/l	98
87) 1,2-Dichlorobenzene	12.335	146	222638	87.133	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.939	75	34992	90.153	ug/l	97
89) 1,2,4-Trichlorobenzene	13.585	180	155404	97.801	ug/l	98
90) Hexachlorobutadiene	13.725	225	64850	99.325	ug/l	97
91) Naphthalene	13.774	128	496416	91.055	ug/l	100
92) 1,2,3-Trichlorobenzene	13.957	180	151656	94.037	ug/l	100

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

Manual Integrations

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