

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061125\
 Data File : VX046628.D
 Acq On : 11 Jun 2025 11:12
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

Reviewed By :John
 Carlone

Quant Time: Jun 12 01:36:21 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061025W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jun 11 06:20:28 2025
 Response via : Initial Calibration

06/12/2025
 Supervised By :Mahesh
 Dadoda

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

Internal Standards						
1) Bromochloromethane	4.910	128	20635	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	110776	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	99656	30.000	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	51255	30.685	ug/l	-0.01
Spiked Amount	30.000	Range	91 - 110	Recovery	= 102.300%	
60) 4-Bromofluorobenzene	11.079	95	51455	30.633	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 102.100%	
63) Toluene-d8	8.647	98	135584	30.459	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 101.533%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.185	85	28077	20.929	ug/l	96
3) Chloromethane	1.307	50	25877	18.721	ug/l	95
4) Vinyl Chloride	1.386	62	26255	19.703	ug/l	99
5) Bromomethane	1.630	94	11390	14.313	ug/l	96
6) Chloroethane	1.703	64	14607	19.080	ug/l	96
7) Trichlorofluoromethane	1.904	101	39076	20.473	ug/l	99
8) Diethyl Ether	2.148	74	12999	19.438	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.343	101	25456	20.046	ug/l	99
10) 1,1-Dichloroethene	2.337	96	23957	19.448	ug/l	94
11) Methyl Iodide	2.465	142	22855	13.609	ug/l	99
12) Methyl Acetate	2.715	43	24983	16.090	ug/l	97
13) Acrolein	2.251	56	15250	100.231	ug/l	96
14) Acrylonitrile	3.075	53	59285	92.911	ug/l	98
15) Acetone	2.386	58	14193	97.272	ug/l	89
16) Carbon Disulfide	2.526	76	70029	20.491	ug/l	99
17) Allyl chloride	2.678	41	44404	19.868	ug/l	98
18) Methylene Chloride	2.800	84	27389	20.147	ug/l	95
19) trans-1,2-Dichloroethene	3.105	96	25444	19.932	ug/l	97
20) Diisopropyl ether	3.770	45	85373	20.190	ug/l	95
21) 1,1-Dichloroethane	3.623	63	47950	19.792	ug/l	97
22) cis-1,2-Dichloroethene	4.495	96	30310	20.366	ug/l	97
23) tert-Butyl Alcohol	2.953	59	10853	84.214	ug/l #	100
24) Methyl tert-Butyl Ether	3.123	73	73237	19.462	ug/l	99
25) Chloroform	5.105	83	51225	20.542	ug/l	97
26) Cyclohexane	5.477	56	44234	20.011	ug/l #	98
29) 1,1-Dichloropropene	5.702	75	34838	19.988	ug/l	100
30) 2-Butanone	4.562	43	73100	94.128	ug/l	99
31) 2,2-Dichloropropane	4.483	77	35277m	22.799	ug/l	
32) 1,1,1-Trichloroethane	5.391	97	43658	20.272	ug/l	99
33) Carbon Tetrachloride	5.690	117	39564	20.700	ug/l	97
34) Benzene	6.043	78	102859	20.087	ug/l	98
35) Methacrylonitrile	4.922	41	18615	19.547	ug/l	98
36) 1,2-Dichloroethane	6.092	62	39747	20.516	ug/l	99
37) Trichloroethene	7.129	130	25222	19.629	ug/l	88
38) Methylcyclohexane	7.385	83	44602	20.161	ug/l	97
39) 1,2-Dichloropropane	7.433	63	25659	20.087	ug/l	96
40) Dibromomethane	7.580	93	18843	19.732	ug/l	100
41) Bromodichloromethane	7.824	83	38780	19.934	ug/l #	96
42) Vinyl Acetate	3.733	43	337623	100.751	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.721	43	32096m	19.510	ug/l	
44) Isopropyl Acetate	6.348	43	49810	19.357	ug/l	99
45) 1,4-Dioxane	7.659	88	5493	338.424	ug/l	96
46) Methyl methacrylate	7.696	41	26767	19.051	ug/l	96
47) n-amyl Acetate	10.841	43	44560	19.360	ug/l	100
48) t-1,3-Dichloropropene	8.976	75	33811	19.387	ug/l	96
49) cis-1,3-Dichloropropene	8.366	75	38134	19.585	ug/l	95
50) 1,1,2-Trichloroethane	9.153	97	24078	20.006	ug/l	94
51) Ethyl methacrylate	9.116	69	34021	18.591	ug/l	99
52) 1,3-Dichloropropane	9.305	76	41775	19.928	ug/l	98
53) Dibromochloromethane	9.518	129	28819	20.316	ug/l	97
54) 1,2-Dibromoethane	9.610	107	24633	19.458	ug/l	99
55) 2-Chloroethyl vinyl ether	8.244	63	94081	98.440	ug/l	98
56) Bromoform	10.799	173	17656	20.140	ug/l	99
58) 4-Methyl-2-Pentanone	8.574	43	157737	97.307	ug/l	99
59) 2-Hexanone	9.427	43	106198	92.866	ug/l	98
61) Tetrachloroethene	9.275	164	21065	20.169	ug/l	98
62) Toluene	8.720	91	109424	20.261	ug/l	99
64) Chlorobenzene	10.079	112	69901	20.067	ug/l	97
65) 1,1,1,2-Tetrachloroethane	10.159	131	22881	19.599	ug/l	99
66) Ethyl Benzene	10.195	91	122281	19.829	ug/l	99
67) m/p-Xylenes	10.299	106	91561	40.142	ug/l	99
68) o-Xylene	10.640	106	43725	19.910	ug/l	97
69) Styrene	10.652	104	76101	20.216	ug/l	99
70) Isopropylbenzene	10.963	105	119056	20.200	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.207	83	34367	19.850	ug/l	98
72) 1,2,3-Trichloropropane	11.238	75	28375m	19.632	ug/l	
73) Bromobenzene	11.195	156	27307	19.766	ug/l	98
74) n-propylbenzene	11.299	91	144502	20.504	ug/l	99
75) 2-Chlorotoluene	11.360	91	85256	20.207	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	100155	20.453	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	9214	18.871	ug/l	95
78) 4-Chlorotoluene	11.451	91	99675	20.420	ug/l	99
79) tert-butylbenzene	11.713	119	99639	20.403	ug/l	98
80) 1,2,4-Trimethylbenzene	11.750	105	100361	20.752	ug/l	99
81) sec-Butylbenzene	11.890	105	127530	20.407	ug/l	99
82) p-Isopropyltoluene	12.006	119	107730	21.003	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	52959	20.594	ug/l	99
84) 1,4-Dichlorobenzene	12.036	146	53095	20.531	ug/l	98
85) n-Butylbenzene	12.329	91	102821	20.808	ug/l	100
86) Hexachloroethane	12.536	117	17610	19.769	ug/l	100
87) 1,2-Dichlorobenzene	12.335	146	50257	20.314	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.939	75	7096	19.869	ug/l	96
89) 1,2,4-Trichlorobenzene	13.585	180	32647	20.015	ug/l	98
90) Hexachlorobutadiene	13.719	225	14411	20.065	ug/l	99
91) Naphthalene	13.774	128	101783	19.669	ug/l	99
92) 1,2,3-Trichlorobenzene	13.957	180	32178	20.098	ug/l	100

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

