

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061025\
 Data File : VX046615.D
 Acq On : 10 Jun 2025 20:40
 Operator : JC/MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

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

Quant Time: Jun 11 05:57:14 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

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

Internal Standards						
1) Bromochloromethane	4.916	128	19846	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	104620	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	96769	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.970	65	48470	25.927	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	86.433%#		
60) 4-Bromofluorobenzene	11.079	95	48951	27.592	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	91.967%		
63) Toluene-d8	8.653	98	131066	25.448	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	84.833%#		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.185	85	26946	16.689	ug/l	100
3) Chloromethane	1.307	50	28042	14.844	ug/l	100
4) Vinyl Chloride	1.386	62	26978	14.752	ug/l	100
5) Bromomethane	1.630	94	16981	23.792	ug/l	100
6) Chloroethane	1.703	64	14658	15.053	ug/l	100
7) Trichlorofluoromethane	1.904	101	39293	15.714	ug/l	100
8) Diethyl Ether	2.148	74	13681	14.696	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.349	101	25658	16.992	ug/l	100
10) 1,1-Dichloroethene	2.337	96	24368	16.602	ug/l	100
11) Methyl Iodide	2.465	142	33343	19.034	ug/l	100
12) Methyl Acetate	2.715	43	41260	22.468	ug/l	100
13) Acrolein	2.251	56	13684	43.350	ug/l	100
14) Acrylonitrile	3.075	53	64536	78.733	ug/l	100
15) Acetone	2.392	58	14635	67.367	ug/l	100
16) Carbon Disulfide	2.532	76	68876	16.507	ug/l	100
17) Allyl chloride	2.678	41	44732	16.299	ug/l	100
18) Methylene Chloride	2.806	84	27492	16.740	ug/l	100
19) trans-1,2-Dichloroethene	3.111	96	25402	17.055	ug/l	100
20) Diisopropyl ether	3.776	45	86462	16.458	ug/l	100
21) 1,1-Dichloroethane	3.629	63	49010	16.732	ug/l	100
22) cis-1,2-Dichloroethene	4.507	96	30268	16.984	ug/l	100
23) tert-Butyl Alcohol	2.959	59	12258	45.938	ug/l #	100
24) Methyl tert-Butyl Ether	3.129	73	75763	15.953	ug/l	100
25) Chloroform	5.105	83	50765	17.781	ug/l	100
26) Cyclohexane	5.483	56	44838	16.632	ug/l #	100
29) 1,1-Dichloropropene	5.708	75	35945	18.824	ug/l	100
30) 2-Butanone	4.568	43	78333	74.462	ug/l	100
31) 2,2-Dichloropropane	4.495	77	30601	14.766	ug/l	100
32) 1,1,1-Trichloroethane	5.397	97	43830	18.885	ug/l	100
33) Carbon Tetrachloride	5.690	117	38777	19.649	ug/l	100
34) Benzene	6.050	78	104632	17.740	ug/l	100
35) Methacrylonitrile	4.940	41	18569	16.244	ug/l	100
36) 1,2-Dichloroethane	6.098	62	40595	19.638	ug/l	100
37) Trichloroethene	7.135	130	25550	18.401	ug/l	100
38) Methylcyclohexane	7.385	83	43701	17.255	ug/l	100
39) 1,2-Dichloropropane	7.433	63	25723	17.600	ug/l	100
40) Dibromomethane	7.592	93	19378	18.274	ug/l	100
41) Bromodichloromethane	7.824	83	40158	18.873	ug/l	100
42) Vinyl Acetate	3.733	43	302566	74.002	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.727	43	32877m	16.308	ug/l	
44) Isopropyl Acetate	6.348	43	49958	15.182	ug/l	100
45) 1,4-Dioxane	7.665	88	6680	210.513	ug/l	100
46) Methyl methacrylate	7.702	41	28485	17.272	ug/l	100
47) n-amyl Acetate	10.841	43	39401	14.016	ug/l	100
48) t-1,3-Dichloropropene	8.982	75	33109	16.357	ug/l	100
49) cis-1,3-Dichloropropene	8.372	75	38153	16.782	ug/l	100
50) 1,1,2-Trichloroethane	9.153	97	24532	17.930	ug/l	100
51) Ethyl methacrylate	9.116	69	36066	16.690	ug/l	100
52) 1,3-Dichloropropane	9.311	76	43428	18.066	ug/l	100
53) Dibromochloromethane	9.525	129	28331	18.483	ug/l	100
54) 1,2-Dibromoethane	9.610	107	25214	18.026	ug/l	100
55) 2-Chloroethyl vinyl ether	8.244	63	99715	89.461	ug/l	100
56) Bromoform	10.799	173	17350	17.940	ug/l	100
58) 4-Methyl-2-Pentanone	8.574	43	168105	80.064	ug/l	100
59) 2-Hexanone	9.433	43	119031	78.596	ug/l	100
61) Tetrachloroethene	9.275	164	21427	18.338	ug/l	100
62) Toluene	8.720	91	112826	17.967	ug/l	100
64) Chlorobenzene	10.079	112	70885	18.184	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.165	131	23888	18.443	ug/l	100
66) Ethyl Benzene	10.195	91	126701	18.282	ug/l	100
67) m/p-Xylenes	10.299	106	94670	36.954	ug/l	100
68) o-Xylene	10.640	106	45327	18.103	ug/l	100
69) Styrene	10.652	104	79010	18.701	ug/l	100
70) Isopropylbenzene	10.963	105	121135	18.592	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	36421	17.238	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	30060m	17.246	ug/l	
73) Bromobenzene	11.195	156	28085	18.679	ug/l	100
74) n-propylbenzene	11.305	91	146242	18.746	ug/l	100
75) 2-Chlorotoluene	11.360	91	87919	18.725	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	101937	18.912	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	9358	15.786	ug/l	100
78) 4-Chlorotoluene	11.451	91	102991	19.447	ug/l	100
79) tert-butylbenzene	11.713	119	101208	18.685	ug/l	100
80) 1,2,4-Trimethylbenzene	11.750	105	100948	18.762	ug/l	100
81) sec-Butylbenzene	11.890	105	129718	18.971	ug/l	100
82) p-Isopropyltoluene	12.006	119	107112	19.247	ug/l	100
83) 1,3-Dichlorobenzene	11.969	146	53209	18.974	ug/l	100
84) 1,4-Dichlorobenzene	12.036	146	53974	19.383	ug/l	100
85) n-Butylbenzene	12.329	91	103405	20.005	ug/l	100
86) Hexachloroethane	12.536	117	17967	18.242	ug/l	100
87) 1,2-Dichlorobenzene	12.335	146	51572	18.834	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	12.939	75	7234	17.392	ug/l	100
89) 1,2,4-Trichlorobenzene	13.585	180	33278	19.543	ug/l	100
90) Hexachlorobutadiene	13.719	225	14708	21.021	ug/l	100
91) Naphthalene	13.774	128	104308	17.854	ug/l	100
92) 1,2,3-Trichlorobenzene	13.957	180	32955	19.068	ug/l	100

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

