

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072525\
 Data File : VX047143.D
 Acq On : 25 Jul 2025 15:40
 Operator : JC/MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/28/2025
 Supervised By : Mahesh Dadoda 07/28/2025

Quant Time: Jul 26 04:43:42 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X072525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Jul 26 04:39:21 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.916	128	34763m	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	362797	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	322192	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.970	65	149431	34.036	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 113.467%#			
60) 4-Bromofluorobenzene	11.079	95	161138	30.694	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 102.300%			
63) Toluene-d8	8.653	98	424453	30.246	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.833%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.185	85	83757	21.170	ug/l	100
3) Chloromethane	1.313	50	73697	20.726	ug/l	100
4) Vinyl Chloride	1.392	62	86411	20.295	ug/l	100
5) Bromomethane	1.630	94	38604	22.427	ug/l	100
6) Chloroethane	1.709	64	50148	20.867	ug/l	100
7) Trichlorofluoromethane	1.910	101	123222	21.302	ug/l	100
8) Diethyl Ether	2.148	74	41806	19.802	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.349	101	69204	20.132	ug/l	100
10) 1,1-Dichloroethene	2.337	96	74482	21.179	ug/l	100
11) Methyl Iodide	2.471	142	96617	17.800	ug/l	100
12) Methyl Acetate	2.715	43	88294	20.170	ug/l	100
13) Acrolein	2.252	56	56312	96.193	ug/l	100
14) Acrylonitrile	3.081	53	191172	105.819	ug/l	100
15) Acetone	2.392	58	46923	105.801	ug/l	100
16) Carbon Disulfide	2.532	76	205040	20.111	ug/l	100
17) Allyl chloride	2.684	41	123725	20.593	ug/l	100
18) Methylene Chloride	2.806	84	78740	20.745	ug/l	100
19) trans-1,2-Dichloroethene	3.111	96	76128	21.137	ug/l	100
20) Diisopropyl ether	3.776	45	274205	21.343	ug/l	100
21) 1,1-Dichloroethane	3.629	63	144933	20.727	ug/l	100
22) cis-1,2-Dichloroethene	4.507	96	90531	20.585	ug/l	100
23) tert-Butyl Alcohol	2.959	59	51065	101.814	ug/l	100
24) Methyl tert-Butyl Ether	3.123	73	244230	20.733	ug/l	100
25) Chloroform	5.111	83	145678	21.160	ug/l	100
26) Cyclohexane	5.489	56	137289	20.220	ug/l #	100
29) 1,1-Dichloropropene	5.708	75	104421	18.480	ug/l	100
30) 2-Butanone	4.574	43	249832	93.607	ug/l	100
31) 2,2-Dichloropropane	4.495	77	113202	18.658	ug/l	100
32) 1,1,1-Trichloroethane	5.397	97	129287	18.477	ug/l	100
33) Carbon Tetrachloride	5.690	117	89275m	18.032	ug/l	
34) Benzene	6.050	78	316973	19.001	ug/l	100
35) Methacrylonitrile	4.934	41	54340	18.834	ug/l	100
36) 1,2-Dichloroethane	6.098	62	113486	18.943	ug/l	100
37) Trichloroethene	7.135	130	79156	18.855	ug/l	100
38) Methylcyclohexane	7.391	83	132690	18.215	ug/l	100
39) 1,2-Dichloropropane	7.440	63	79342	18.552	ug/l	100
40) Dibromomethane	7.592	93	55514m	18.608	ug/l	
41) Bromodichloromethane	7.824	83	113415	18.167	ug/l	100
42) Vinyl Acetate	3.733	43	1139121	92.842	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.727	43	102305	16.811	ug/l	97
44) Isopropyl Acetate	6.348	43	175437	18.322	ug/l	100
45) 1,4-Dioxane	7.708	88	22461	375.333	ug/l	96
46) Methyl methacrylate	7.702	41	88881	18.089	ug/l	100
47) n-amyl Acetate	10.842	43	155914	18.623	ug/l	100
48) t-1,3-Dichloropropene	8.982	75	108794	18.031	ug/l	100
49) cis-1,3-Dichloropropene	8.372	75	120333	18.232	ug/l	100
50) 1,1,2-Trichloroethane	9.153	97	75783	19.101	ug/l	100
51) Ethyl methacrylate	9.116	69	119765	18.516	ug/l	100
52) 1,3-Dichloropropane	9.311	76	129089	18.755	ug/l	100
53) Dibromochloromethane	9.531	129	23759m	16.306	ug/l	
54) 1,2-Dibromoethane	9.610	107	77987	18.776	ug/l	100
55) 2-Chloroethyl vinyl ether	8.244	63	303147	96.113	ug/l	100
56) Bromoform	10.799	173	1012m	17.141	ug/l	
58) 4-Methyl-2-Pentanone	8.574	43	529497	94.189	ug/l	100
59) 2-Hexanone	9.433	43	378544	95.189	ug/l	100
61) Tetrachloroethene	9.275	164	66277	18.786	ug/l	100
62) Toluene	8.720	91	339486	18.842	ug/l	100
64) Chlorobenzene	10.079	112	216170	18.710	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.165	131	71605	19.604	ug/l	100
66) Ethyl Benzene	10.195	91	384899	18.670	ug/l	100
67) m/p-Xylenes	10.299	106	290937	38.082	ug/l	100
68) o-Xylene	10.640	106	139424	18.923	ug/l	100
69) Styrene	10.653	104	237599	18.802	ug/l	100
70) Isopropylbenzene	10.963	105	371473	18.928	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	110463	18.973	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	86591m	19.310	ug/l	
73) Bromobenzene	11.195	156	88904	18.928	ug/l	100
74) n-propylbenzene	11.305	91	446899	18.967	ug/l	100
75) 2-Chlorotoluene	11.366	91	265583	19.047	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	309795	19.186	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	10301	15.523	ug/l	100
78) 4-Chlorotoluene	11.451	91	306713	19.077	ug/l	100
79) tert-butylbenzene	11.713	119	307204	19.011	ug/l	100
80) 1,2,4-Trimethylbenzene	11.750	105	303690	18.962	ug/l	100
81) sec-Butylbenzene	11.890	105	381377	18.911	ug/l	100
82) p-Isopropyltoluene	12.006	119	317626	18.954	ug/l	100
83) 1,3-Dichlorobenzene	11.969	146	167316	19.065	ug/l	100
84) 1,4-Dichlorobenzene	12.043	146	165807	19.063	ug/l	100
85) n-Butylbenzene	12.329	91	303176	18.852	ug/l	100
86) Hexachloroethane	12.536	117	52380	22.478	ug/l	100
87) 1,2-Dichlorobenzene	12.335	146	158585	19.268	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	12.939	75	22779	18.072	ug/l	100
89) 1,2,4-Trichlorobenzene	13.585	180	104740	18.405	ug/l	100
90) Hexachlorobutadiene	13.719	225	29012	22.942	ug/l	100
91) Naphthalene	13.774	128	365478	19.026	ug/l	100
92) 1,2,3-Trichlorobenzene	13.957	180	98565	18.050	ug/l	100

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

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