

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX100725\
 Data File : VX048053.D
 Acq On : 07 Oct 2025 17:22
 Operator : JC/MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

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

Quant Time: Oct 08 02:17:18 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

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

Internal Standards						
1) Bromochloromethane	4.885	128	25711m	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.751	114	168414	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.037	117	155085	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.946	65	79773	35.972	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 119.900%#			
60) 4-Bromofluorobenzene	11.061	95	77587	29.747	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 99.167%			
63) Toluene-d8	8.635	98	208838	30.182	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.600%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.173	85	42408	24.026	ug/l	100
3) Chloromethane	1.301	50	46876	25.364	ug/l	100
4) Vinyl Chloride	1.380	62	46976	26.082	ug/l	100
5) Bromomethane	1.624	94	27478	25.963	ug/l	100
6) Chloroethane	1.697	64	29365	27.433	ug/l	100
7) Trichlorofluoromethane	1.898	101	64248	25.299	ug/l	100
8) Diethyl Ether	2.136	74	25029	27.288	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.337	101	33738	21.060	ug/l	100
10) 1,1-Dichloroethene	2.325	96	38006	23.522	ug/l	100
11) Methyl Iodide	2.459	142	43447m	20.661	ug/l	
12) Methyl Acetate	2.703	43	45227	24.158	ug/l	100
13) Acrolein	2.239	56	36327	157.982	ug/l	100
14) Acrylonitrile	3.062	53	106577	125.343	ug/l	100
15) Acetone	2.380	58	25509	129.404	ug/l	100
16) Carbon Disulfide	2.520	76	118030	25.671	ug/l	100
17) Allyl chloride	2.666	41	68216	23.385	ug/l	100
18) Methylene Chloride	2.788	84	45369	25.049	ug/l	100
19) trans-1,2-Dichloroethene	3.093	96	41735	24.593	ug/l	100
20) Diisopropyl ether	3.751	45	148782	26.097	ug/l	100
21) 1,1-Dichloroethane	3.605	63	79425	24.723	ug/l	100
22) cis-1,2-Dichloroethene	4.483	96	47535	24.273	ug/l	100
23) tert-Butyl Alcohol	2.947	59	25432	139.814	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	132923	26.092	ug/l	100
25) Chloroform	5.080	83	81206	24.631	ug/l	100
26) Cyclohexane	5.464	56	62923	22.235	ug/l #	100
29) 1,1-Dichloropropene	5.684	75	52325	20.168	ug/l	100
30) 2-Butanone	4.544	43	128092	108.125	ug/l	100
31) 2,2-Dichloropropane	4.471	77	55840	23.092	ug/l	100
32) 1,1,1-Trichloroethane	5.373	97	67692	20.857	ug/l	100
33) Carbon Tetrachloride	5.672	117	51140m	18.311	ug/l	
34) Benzene	6.025	78	167918	21.584	ug/l	100
35) Methacrylonitrile	4.910	41	30610	21.038	ug/l	100
36) 1,2-Dichloroethane	6.074	62	63255	21.629	ug/l	100
37) Trichloroethene	7.117	130	39214	20.272	ug/l	100
38) Methylcyclohexane	7.367	83	56680	17.566	ug/l	100
39) 1,2-Dichloropropane	7.415	63	42756	21.865	ug/l	100
40) Dibromomethane	7.568	93	32390	22.128	ug/l	100
41) Bromodichloromethane	7.806	83	64387	21.788	ug/l	100
42) Vinyl Acetate	3.715	43	596070	112.197	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.702	43	54228	21.559	ug/l	100
44) Isopropyl Acetate	6.324	43	91661	22.803	ug/l	100
45) 1,4-Dioxane	7.647	88	11186	449.369	ug/l	100
46) Methyl methacrylate	7.677	41	45337	21.277	ug/l	100
47) n-amyl Acetate	10.829	43	76957	21.174	ug/l	100
48) t-1,3-Dichloropropene	8.964	75	61692	22.553	ug/l	100
49) cis-1,3-Dichloropropene	8.354	75	67709	22.397	ug/l	100
50) 1,1,2-Trichloroethane	9.135	97	41199	22.308	ug/l	100
51) Ethyl methacrylate	9.104	69	59012	21.138	ug/l	100
52) 1,3-Dichloropropane	9.293	76	71049	22.213	ug/l	100
53) Dibromochloromethane	9.506	129	33081m	16.294	ug/l	
54) 1,2-Dibromoethane	9.592	107	41877	21.614	ug/l	100
55) 2-Chloroethyl vinyl ether	8.226	63	155938	108.003	ug/l	100
56) Bromoform	10.774	173	573m	0.541	ug/l	
58) 4-Methyl-2-Pentanone	8.555	43	282895	110.969	ug/l	100
59) 2-Hexanone	9.415	43	192549	107.980	ug/l	100
61) Tetrachloroethene	9.256	164	32166	20.059	ug/l	100
62) Toluene	8.702	91	177232	21.178	ug/l	100
64) Chlorobenzene	10.061	112	112344	20.772	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.147	131	39495	21.595	ug/l	100
66) Ethyl Benzene	10.177	91	188474	19.943	ug/l	100
67) m/p-Xylenes	10.287	106	146341	41.542	ug/l	100
68) o-Xylene	10.628	106	68521	20.294	ug/l	100
69) Styrene	10.640	104	123486	21.193	ug/l	100
70) Isopropylbenzene	10.945	105	176649	19.634	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.195	83	58107	21.588	ug/l	100
72) 1,2,3-Trichloropropane	11.220	75	50460m	22.208	ug/l	
73) Bromobenzene	11.183	156	43573	20.404	ug/l	100
74) n-propylbenzene	11.287	91	211688	19.706	ug/l	100
75) 2-Chlorotoluene	11.348	91	132003	20.381	ug/l	100
76) 1,3,5-Trimethylbenzene	11.433	105	147370	19.753	ug/l	100
77) t-1,4-Dichloro-2-butene	11.000	75	16356	21.147	ug/l	100
78) 4-Chlorotoluene	11.439	91	155329	20.713	ug/l	100
79) tert-butylbenzene	11.695	119	139219	18.890	ug/l	100
80) 1,2,4-Trimethylbenzene	11.732	105	148602	20.097	ug/l	100
81) sec-Butylbenzene	11.872	105	175061	18.629	ug/l	100
82) p-Isopropyltoluene	11.988	119	145556	18.852	ug/l	100
83) 1,3-Dichlorobenzene	11.951	146	81057	20.470	ug/l	100
84) 1,4-Dichlorobenzene	12.024	146	82713	20.747	ug/l	100
85) n-Butylbenzene	12.317	91	133823	18.156	ug/l	100
86) Hexachloroethane	12.524	117	16705m	13.202	ug/l	
87) 1,2-Dichlorobenzene	12.317	146	78904	20.695	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	12.927	75	10652	19.496	ug/l	100
89) 1,2,4-Trichlorobenzene	13.567	180	46137	18.706	ug/l	100
90) Hexachlorobutadiene	13.707	225	14017	13.713	ug/l	100
91) Naphthalene	13.756	128	140259	18.019	ug/l	100
92) 1,2,3-Trichlorobenzene	13.939	180	43739	18.219	ug/l	100

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

