

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022125\
 Data File : VX045011.D
 Acq On : 21 Feb 2025 11:07
 Operator : JC/MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC100

Quant Time: Feb 22 00:48:54 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X022125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Feb 22 00:21:26 2025
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/24/2025
 Supervised By : Mahesh Dadoda 02/24/2025

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

Internal Standards						
1) Bromochloromethane	4.891	128	17332	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.751	114	98516	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.049	117	88321	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.946	65	50601	30.059	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.200%			
60) 4-Bromofluorobenzene	11.079	95	49683	30.096	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 100.333%			
63) Toluene-d8	8.647	98	148078	30.306	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.033%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	140259	95.997	ug/l	97
3) Chloromethane	1.294	50	166114	94.924	ug/l	99
4) Vinyl Chloride	1.374	62	163236	96.669	ug/l	99
5) Bromomethane	1.593	94	54558	92.819	ug/l	95
6) Chloroethane	1.666	64	84688	92.599	ug/l	97
7) Trichlorofluoromethane	1.874	101	220045	96.956	ug/l	96
8) Diethyl Ether	2.130	74	82964	96.616	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.319	101	129494	96.068	ug/l	98
10) 1,1-Dichloroethene	2.313	96	130666	99.244	ug/l	94
11) Methyl Iodide	2.447	142	161844	108.607	ug/l	98
12) Methyl Acetate	2.703	43	150865	98.675	ug/l	99
13) Acrolein	2.233	56	156104	509.382	ug/l	97
14) Acrylonitrile	3.062	53	370914	496.667	ug/l	99
15) Acetone	2.380	58	97560	476.326	ug/l	98
16) Carbon Disulfide	2.502	76	371874	99.576	ug/l	100
17) Allyl chloride	2.654	41	246065	99.923	ug/l	98
18) Methylene Chloride	2.782	84	144938	97.871	ug/l	96
19) trans-1,2-Dichloroethene	3.087	96	130562	98.015	ug/l	97
20) Diisopropyl ether	3.757	45	470167	99.355	ug/l #	82
21) 1,1-Dichloroethane	3.605	63	258430	98.196	ug/l	98
22) cis-1,2-Dichloroethene	4.477	96	156933	98.314	ug/l	99
23) tert-Butyl Alcohol	2.989	59	125570	481.055	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	426471	99.244	ug/l	99
25) Chloroform	5.080	83	248045	97.577	ug/l	99
26) Cyclohexane	5.458	56	236876	97.509	ug/l #	98
29) 1,1-Dichloropropene	5.684	75	174620	96.357	ug/l	100
30) 2-Butanone	4.550	43	505036	482.489	ug/l	99
31) 2,2-Dichloropropane	4.465	77	202370	98.758	ug/l	100
32) 1,1,1-Trichloroethane	5.373	97	211623	96.379	ug/l	99
33) Carbon Tetrachloride	5.666	117	178685	96.425	ug/l	99
34) Benzene	6.031	78	548369	96.492	ug/l	99
35) Methacrylonitrile	4.910	41	111962	99.957	ug/l	97
36) 1,2-Dichloroethane	6.080	62	189437	97.362	ug/l	98
37) Trichloroethene	7.117	130	128134	96.375	ug/l	97
38) Methylcyclohexane	7.373	83	237839	97.744	ug/l	97
39) 1,2-Dichloropropane	7.421	63	140148	99.193	ug/l	98
40) Dibromomethane	7.574	93	97805	96.465	ug/l	99
41) Bromodichloromethane	7.818	83	197339	97.929	ug/l	99
42) Vinyl Acetate	3.715	43	2042535	502.855	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.708	43	199092	101.424	ug/l	97
44) Isopropyl Acetate	6.336	43	329903	102.113	ug/l	99
45) 1,4-Dioxane	7.659	88	63728	1897.493	ug/l	98
46) Methyl methacrylate	7.690	41	162523	102.589	ug/l	100
47) n-amyl Acetate	10.842	43	282922	100.917	ug/l	98
48) t-1,3-Dichloropropene	8.976	75	202810	104.416	ug/l	98
49) cis-1,3-Dichloropropene	8.360	75	223833	101.800	ug/l	100
50) 1,1,2-Trichloroethane	9.147	97	127690	96.553	ug/l	95
51) Ethyl methacrylate	9.110	69	214475	103.117	ug/l	97
52) 1,3-Dichloropropane	9.305	76	222694	96.102	ug/l	99
53) Dibromochloromethane	9.519	129	144384	98.713	ug/l	97
54) 1,2-Dibromoethane	9.604	107	130524	97.194	ug/l	100
55) 2-Chloroethyl vinyl ether	8.238	63	535473	501.334	ug/l	99
56) Bromoform	10.799	173	92416	100.830	ug/l	98
58) 4-Methyl-2-Pentanone	8.574	43	983713	489.624	ug/l	99
59) 2-Hexanone	9.427	43	708849	488.118	ug/l	98
61) Tetrachloroethene	9.269	164	104854	96.410	ug/l	97
62) Toluene	8.714	91	575772	98.410	ug/l	99
64) Chlorobenzene	10.073	112	359123	99.055	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.159	131	117602	98.304	ug/l	98
66) Ethyl Benzene	10.189	91	641324	100.122	ug/l	97
67) m/p-Xylenes	10.299	106	470322	197.072	ug/l	98
68) o-Xylene	10.640	106	230392	98.392	ug/l	100
69) Styrene	10.653	104	387436	99.067	ug/l	98
70) Isopropylbenzene	10.957	105	596402	98.698	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.207	83	190591	95.916	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	158994m	97.283	ug/l	
73) Bromobenzene	11.195	156	136270	97.960	ug/l	98
74) n-propylbenzene	11.299	91	717361	99.759	ug/l	99
75) 2-Chlorotoluene	11.360	91	421424	96.938	ug/l	98
76) 1,3,5-Trimethylbenzene	11.451	105	487050	97.701	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	59873	108.886	ug/l	98
78) 4-Chlorotoluene	11.451	91	477861	98.607	ug/l	98
79) tert-butylbenzene	11.713	119	490816	97.716	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	486770	97.478	ug/l	100
81) sec-Butylbenzene	11.890	105	616448	97.788	ug/l	100
82) p-Isopropyltoluene	12.006	119	510223	99.893	ug/l	99
83) 1,3-Dichlorobenzene	11.963	146	250755	96.883	ug/l	98
84) 1,4-Dichlorobenzene	12.036	146	249668	97.834	ug/l	99
85) n-Butylbenzene	12.329	91	476457	102.150	ug/l	98
86) Hexachloroethane	12.536	117	92493	102.679	ug/l	100
87) 1,2-Dichlorobenzene	12.335	146	240056	94.528	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.939	75	37960	98.669	ug/l	98
89) 1,2,4-Trichlorobenzene	13.585	180	158594	103.039	ug/l	98
90) Hexachlorobutadiene	13.719	225	60565	96.489	ug/l	98
91) Naphthalene	13.774	128	548026	100.977	ug/l	100
92) 1,2,3-Trichlorobenzene	13.957	180	158881	100.267	ug/l	100

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

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