

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061025\
 Data File : VX046620.D
 Acq On : 10 Jun 2025 22:26
 Operator : JC/MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX061025

Manual Integrations
 APPROVED

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

Quant Time: Jun 11 06:31:04 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

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

Internal Standards						
1) Bromochloromethane	4.916	128	19502	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	102720	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	94298	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.964	65	47044	29.800	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.333%		
60) 4-Bromofluorobenzene	11.079	95	47841	30.100	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	100.333%		
63) Toluene-d8	8.653	98	127505	30.271	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	100.900%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.185	85	23255	18.341	ug/l	95
3) Chloromethane	1.307	50	23695	18.139	ug/l	96
4) Vinyl Chloride	1.386	62	23516	18.673	ug/l	98
5) Bromomethane	1.630	94	16055	21.347	ug/l	97
6) Chloroethane	1.703	64	13014	17.987	ug/l	95
7) Trichlorofluoromethane	1.904	101	34019	18.859	ug/l	100
8) Diethyl Ether	2.148	74	11129	17.609	ug/l	94
9) 1,1,2-Trichlorotrifluo...	2.343	101	22388	18.654	ug/l	98
10) 1,1-Dichloroethene	2.337	96	21173	18.187	ug/l	93
11) Methyl Iodide	2.471	142	28540	17.981	ug/l	99
12) Methyl Acetate	2.715	43	23837	16.244	ug/l	95
13) Acrolein	2.252	56	15494	107.751	ug/l	98
14) Acrylonitrile	3.075	53	56070	92.978	ug/l	100
15) Acetone	2.386	58	13263	96.180	ug/l	93
16) Carbon Disulfide	2.532	76	61158	18.935	ug/l	99
17) Allyl chloride	2.678	41	38539	18.246	ug/l	97
18) Methylene Chloride	2.800	84	24288	18.904	ug/l	93
19) trans-1,2-Dichloroethene	3.111	96	22089	18.309	ug/l	98
20) Diisopropyl ether	3.770	45	77020	19.273	ug/l #	84
21) 1,1-Dichloroethane	3.629	63	42965	18.765	ug/l	99
22) cis-1,2-Dichloroethene	4.507	96	26042	18.515	ug/l	97
23) tert-Butyl Alcohol	2.959	59	10713m	87.957	ug/l	
24) Methyl tert-Butyl Ether	3.123	73	67674	19.029	ug/l	99
25) Chloroform	5.111	83	44938	19.068	ug/l	94
26) Cyclohexane	5.483	56	40470	19.372	ug/l #	99
29) 1,1-Dichloropropene	5.702	75	31429	19.447	ug/l	99
30) 2-Butanone	4.568	43	69729	96.829	ug/l	99
31) 2,2-Dichloropropane	4.489	77	26066	18.167	ug/l	99
32) 1,1,1-Trichloroethane	5.397	97	38918	19.489	ug/l	98
33) Carbon Tetrachloride	5.690	117	34697	19.577	ug/l	95
34) Benzene	6.050	78	91082	19.182	ug/l	100
35) Methacrylonitrile	4.934	41	16567	18.761	ug/l	97
36) 1,2-Dichloroethane	6.092	62	35133	19.556	ug/l	100
37) Trichloroethene	7.135	130	22786	19.124	ug/l	93
38) Methylcyclohexane	7.385	83	39592	19.300	ug/l	98
39) 1,2-Dichloropropane	7.434	63	22488	18.986	ug/l	93
40) Dibromomethane	7.586	93	17216	19.442	ug/l	99
41) Bromodichloromethane	7.824	83	35030	19.418	ug/l #	97
42) Vinyl Acetate	3.733	43	311920	100.381	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.727	43	30123	19.747	ug/l #	91
44) Isopropyl Acetate	6.348	43	47093	19.737	ug/l	99
45) 1,4-Dioxane	7.659	88	6089	404.565	ug/l #	90
46) Methyl methacrylate	7.702	41	25547	19.609	ug/l	97
47) n-amyl Acetate	10.842	43	41994	19.676	ug/l	100
48) t-1,3-Dichloropropene	8.982	75	29793	18.423	ug/l	99
49) cis-1,3-Dichloropropene	8.366	75	35002	19.386	ug/l	96
50) 1,1,2-Trichloroethane	9.153	97	21725	19.467	ug/l	98
51) Ethyl methacrylate	9.116	69	32296	19.032	ug/l	98
52) 1,3-Dichloropropane	9.311	76	37211	19.143	ug/l	96
53) Dibromochloromethane	9.519	129	25255	19.199	ug/l	99
54) 1,2-Dibromoethane	9.610	107	22587	19.241	ug/l	99
55) 2-Chloroethyl vinyl ether	8.244	63	88573	99.945	ug/l	100
56) Bromoform	10.799	173	15704	19.319	ug/l	98
58) 4-Methyl-2-Pentanone	8.574	43	151408	98.710	ug/l	99
59) 2-Hexanone	9.433	43	105767	97.744	ug/l	98
61) Tetrachloroethene	9.275	164	19049	19.275	ug/l	99
62) Toluene	8.720	91	99135	19.399	ug/l	99
64) Chlorobenzene	10.079	112	63797	19.355	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.165	131	21209	19.199	ug/l	98
66) Ethyl Benzene	10.195	91	112742	19.321	ug/l	99
67) m/p-Xylenes	10.299	106	84228	39.025	ug/l	100
68) o-Xylene	10.640	106	41009	19.734	ug/l	97
69) Styrene	10.653	104	69270	19.447	ug/l	98
70) Isopropylbenzene	10.963	105	109015	19.548	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	32028	19.550	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	26343m	19.261	ug/l	
73) Bromobenzene	11.195	156	25200	19.277	ug/l	99
74) n-propylbenzene	11.305	91	132000	19.794	ug/l	100
75) 2-Chlorotoluene	11.360	91	78088	19.560	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	91935	19.841	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	8334	18.038	ug/l	94
78) 4-Chlorotoluene	11.451	91	92213	19.964	ug/l	99
79) tert-butylbenzene	11.713	119	91390	19.777	ug/l	100
80) 1,2,4-Trimethylbenzene	11.750	105	91018	19.890	ug/l	99
81) sec-Butylbenzene	11.890	105	115967	19.611	ug/l	100
82) p-Isopropyltoluene	12.006	119	96508	19.884	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	47835	19.658	ug/l	99
84) 1,4-Dichlorobenzene	12.036	146	48644	19.878	ug/l	99
85) n-Butylbenzene	12.329	91	92530	19.790	ug/l	99
86) Hexachloroethane	12.536	117	16219	19.242	ug/l	96
87) 1,2-Dichlorobenzene	12.335	146	46237	19.751	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.939	75	6474	19.157	ug/l	97
89) 1,2,4-Trichlorobenzene	13.585	180	30504	19.764	ug/l	99
90) Hexachlorobutadiene	13.725	225	13613	20.031	ug/l	97
91) Naphthalene	13.774	128	94364	19.272	ug/l	100
92) 1,2,3-Trichlorobenzene	13.957	180	29352	19.375	ug/l	100

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

