

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN052925\
 Data File : VN086821.D
 Acq On : 29 May 2025 17:49
 Operator : JC\MD
 Sample : Q2098-03MSD
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 OUTFALL-DSN-001MSD

Quant Time: May 30 02:46:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N052925W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri May 30 02:22:52 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 05/30/2025
 Supervised By : Mahesh Dadoda 05/30/2025

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

Internal Standards						
1) Bromochloromethane	7.812	128	43151	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.094	114	257974	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	224139	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.571	65	94371	31.831	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 106.100%			
60) 4-Bromofluorobenzene	12.841	95	104243	29.623	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 98.733%			
63) Toluene-d8	10.565	98	310504	30.182	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.600%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	59519	20.309	ug/l	98
3) Chloromethane	2.365	50	118517	31.365	ug/l	100
4) Vinyl Chloride	2.512	62	70631	20.311	ug/l	100
5) Bromomethane	2.965	94	29552	16.039	ug/l	97
6) Chloroethane	3.124	64	56759m	26.686	ug/l	
7) Trichlorofluoromethane	3.500	101	83340	20.462	ug/l	99
8) Diethyl Ether	3.953	74	35622	20.967	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.371	101	52379	20.984	ug/l	98
10) 1,1-Dichloroethene	4.342	96	52457	20.614	ug/l	99
11) Methyl Iodide	4.589	142	55811	18.605	ug/l	99
12) Methyl Acetate	5.018	43	63684	22.534	ug/l	98
13) Acrolein	4.183	56	46039	157.692	ug/l	99
14) Acrylonitrile	5.718	53	142232	108.150	ug/l	98
15) Acetone	4.424	58	97289	292.171	ug/l	88
16) Carbon Disulfide	4.712	76	155318	20.909	ug/l	99
17) Allyl chloride	5.024	41	82802	21.902	ug/l	98
18) Methylene Chloride	5.271	84	69899	23.652	ug/l	97
19) trans-1,2-Dichloroethene	5.783	96	55914	20.996	ug/l	92
20) Diisopropyl ether	6.665	45	185856	22.322	ug/l	97
21) 1,1-Dichloroethane	6.565	63	106126	21.120	ug/l	99
22) cis-1,2-Dichloroethene	7.483	96	68298	21.177	ug/l	99
23) tert-Butyl Alcohol	5.512	59	51161	121.140	ug/l #	100
24) Methyl tert-Butyl Ether	5.794	73	189124	22.550	ug/l	99
25) Chloroform	7.965	83	202721	41.219	ug/l	100
26) Cyclohexane	8.253	56	97050	22.316	ug/l #	99
29) 1,1-Dichloropropene	8.371	75	77543	20.444	ug/l	99
30) 2-Butanone	7.477	43	183646	110.504	ug/l	100
31) 2,2-Dichloropropane	7.483	77	91032	20.332	ug/l	99
32) 1,1,1-Trichloroethane	8.165	97	90907	20.676	ug/l	100
33) Carbon Tetrachloride	8.359	117	75818	20.173	ug/l	98
34) Benzene	8.600	78	249326	20.203	ug/l	99
35) Methacrylonitrile	7.771	41	43061	22.556	ug/l	96
36) 1,2-Dichloroethane	8.665	62	75590	20.902	ug/l	98
37) Trichloroethene	9.347	130	58049	16.958	ug/l	97
38) Methylcyclohexane	9.594	83	90170	21.426	ug/l	98
39) 1,2-Dichloropropane	9.618	63	60277	20.287	ug/l	98
40) Dibromomethane	9.706	93	39849	20.506	ug/l	99
41) Bromodichloromethane	9.882	83	101189	24.876	ug/l	97
42) Vinyl Acetate	6.600	43	697258	143.935	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.553	43	71241m	20.949	ug/l	
44) Isopropyl Acetate	8.682	43	131083	22.470	ug/l	99
45) 1,4-Dioxane	9.694	88	22048	425.230	ug/l	98
46) Methyl methacrylate	9.677	41	64179	23.860	ug/l	98
47) n-amyl Acetate	12.488	43	118604	25.325	ug/l	96
48) t-1,3-Dichloropropene	10.829	75	93278	21.429	ug/l	100
49) cis-1,3-Dichloropropene	10.306	75	99231	20.725	ug/l	94
50) 1,1,2-Trichloroethane	11.012	97	56032	20.472	ug/l	98
51) Ethyl methacrylate	10.871	69	98045	22.119	ug/l	98
52) 1,3-Dichloropropane	11.159	76	98625	20.305	ug/l	100
53) Dibromochloromethane	11.353	129	66931	21.640	ug/l	99
54) 1,2-Dibromoethane	11.465	107	57001	20.374	ug/l	99
56) Bromoform	12.576	173	41441	21.265	ug/l	98
58) 4-Methyl-2-Pentanone	10.441	43	386060	117.384	ug/l	99
59) 2-Hexanone	11.194	43	273247	115.988	ug/l	98
61) Tetrachloroethene	11.100	164	47210	12.530	ug/l	93
62) Toluene	10.624	91	262386	20.786	ug/l	99
64) Chlorobenzene	11.888	112	163895	20.358	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.953	131	55278	20.901	ug/l	99
66) Ethyl Benzene	11.959	91	289610	21.211	ug/l	94
67) m/p-Xylenes	12.065	106	220975	41.242	ug/l	99
68) o-Xylene	12.394	106	108396	20.875	ug/l	100
69) Styrene	12.406	104	178375	20.619	ug/l	99
70) Isopropylbenzene	12.694	105	258427	20.925	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.935	83	81687	27.819	ug/l	99
72) 1,2,3-Trichloropropane	12.988	75	71196m	20.688	ug/l	
73) Bromobenzene	12.976	156	59826	19.489	ug/l	92
74) n-propylbenzene	13.029	91	304564	20.819	ug/l	99
75) 2-Chlorotoluene	13.123	91	194919	20.759	ug/l	100
76) 1,3,5-Trimethylbenzene	13.170	105	210786	20.516	ug/l	97
77) t-1,4-Dichloro-2-butene	12.735	75	32773	23.271	ug/l	92
78) 4-Chlorotoluene	13.217	91	188636	20.281	ug/l	99
79) tert-butylbenzene	13.435	119	182469	20.541	ug/l	99
80) 1,2,4-Trimethylbenzene	13.476	105	216398	20.983	ug/l	97
81) sec-Butylbenzene	13.612	105	246845	20.397	ug/l	99
82) p-Isopropyltoluene	13.723	119	212101	20.873	ug/l	100
83) 1,3-Dichlorobenzene	13.729	146	110880	19.689	ug/l	98
84) 1,4-Dichlorobenzene	13.806	146	108653	19.388	ug/l	99
85) n-Butylbenzene	14.053	91	194982	22.920	ug/l	96
86) Hexachloroethane	14.329	117	36476	21.062	ug/l	99
87) 1,2-Dichlorobenzene	14.100	146	107291	19.750	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	14.717	75	16612	26.865	ug/l	97
89) 1,2,4-Trichlorobenzene	15.835	180	55086	24.230	ug/l	99
90) Hexachlorobutadiene	15.500	225	20363	20.898	ug/l	97
91) Naphthalene	15.635	128	209948	26.467	ug/l	99
92) 1,2,3-Trichlorobenzene	15.835	180	55086	24.230	ug/l	99

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

