

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072425\
 Data File : VN087416.D
 Acq On : 24 Jul 2025 14:11
 Operator : JC\MD
 Sample : Q2683-05MSD
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 DSN001MSD

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/25/2025
 Supervised By : Mahesh Dadoda 07/25/2025

Quant Time: Jul 25 04:55:09 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N072325W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jul 24 05:11:26 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.800	128	26267	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	126821	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	118092	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.565	65	64897	29.957	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	99.867%	
60) 4-Bromofluorobenzene	12.829	95	56400	28.627	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	95.433%	
63) Toluene-d8	10.547	98	162744	30.303	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	101.000%	
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.142	85	32269	20.078	ug/l	89
3) Chloromethane	2.383	50	30336	19.003	ug/l	90
4) Vinyl Chloride	2.542	62	33454	19.014	ug/l	93
5) Bromomethane	2.989	94	23393	21.486	ug/l	89
6) Chloroethane	3.136	64	26556	19.640	ug/l	87
7) Trichlorofluoromethane	3.512	101	64639	21.603	ug/l	96
8) Diethyl Ether	3.965	74	24626	20.676	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.377	101	32309m	20.375	ug/l	
10) 1,1-Dichloroethene	4.336	96	32258m	19.595	ug/l	
11) Methyl Iodide	4.589	142	17731m	14.765	ug/l	
12) Methyl Acetate	5.024	43	44874	20.956	ug/l	94
13) Acrolein	4.177	56	39485	101.429	ug/l	97
14) Acrylonitrile	5.712	53	91185	93.247	ug/l	97
15) Acetone	4.418	58	39348m	113.970	ug/l	
16) Carbon Disulfide	4.706	76	78446	18.451	ug/l	97
17) Allyl chloride	5.018	41	37655	16.697	ug/l	85
18) Methylene Chloride	5.265	84	32737	19.648	ug/l #	83
19) trans-1,2-Dichloroethene	5.777	96	29698	18.369	ug/l	97
20) Diisopropyl ether	6.659	45	97188	17.042	ug/l	98
21) 1,1-Dichloroethane	6.559	63	56912	18.685	ug/l	94
22) cis-1,2-Dichloroethene	7.477	96	35505	18.749	ug/l	96
23) tert-Butyl Alcohol	5.518	59	35836m	106.926	ug/l	
24) Methyl tert-Butyl Ether	5.789	73	99287	18.663	ug/l	97
25) Chloroform	7.953	83	67763	20.313	ug/l	98
26) Cyclohexane	8.247	56	40796	17.966	ug/l #	97
29) 1,1-Dichloropropene	8.353	75	37492	17.328	ug/l	96
30) 2-Butanone	7.477	43	137770	93.494	ug/l	100
31) 2,2-Dichloropropane	7.477	77	51342	18.068	ug/l	97
32) 1,1,1-Trichloroethane	8.153	97	54434	19.222	ug/l #	86
33) Carbon Tetrachloride	8.347	117	46836	19.038	ug/l #	87
34) Benzene	8.588	78	125507	17.960	ug/l	97
35) Methacrylonitrile	7.759	41	27883	17.994	ug/l	82
36) 1,2-Dichloroethane	8.653	62	52407	19.010	ug/l #	92
37) Trichloroethene	9.335	130	30786	19.304	ug/l	93
38) Methylcyclohexane	9.582	83	40521	17.716	ug/l	96
39) 1,2-Dichloropropane	9.606	63	31271	17.812	ug/l #	86
40) Dibromomethane	9.688	93	25768	18.971	ug/l	97
41) Bromodichloromethane	9.871	83	52841	19.594	ug/l	87
42) Vinyl Acetate	6.594	43	412737	82.684	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.553	43	46166	15.389	ug/l #	83
44) Isopropyl Acetate	8.677	43	83852	17.706	ug/l	98
45) 1,4-Dioxane	9.682	88	11209	384.155	ug/l #	59
46) Methyl methacrylate	9.659	41	37753	17.311	ug/l	98
47) n-amyl Acetate	12.518	43	39677m	13.980	ug/l	
48) t-1,3-Dichloropropene	10.812	75	50888	17.688	ug/l	99
49) cis-1,3-Dichloropropene	10.294	75	52859	18.372	ug/l	98
50) 1,1,2-Trichloroethane	10.994	97	32304	18.415	ug/l	94
51) Ethyl methacrylate	10.859	69	46574	17.362	ug/l	98
52) 1,3-Dichloropropane	11.141	76	52633	17.451	ug/l	97
53) Dibromochloromethane	11.341	129	41201	20.040	ug/l	100
54) 1,2-Dibromoethane	11.453	107	33325	18.534	ug/l	98
55) 2-Chloroethyl vinyl ether	10.141	63	113429	76.010	ug/l	99
56) Bromoform	12.559	173	26407	18.059	ug/l	98
58) 4-Methyl-2-Pentanone	10.429	43	285168	98.754	ug/l	99
59) 2-Hexanone	11.182	43	183063	93.922	ug/l	99
61) Tetrachloroethene	11.082	164	24902	18.883	ug/l #	89
62) Toluene	10.612	91	135115	18.787	ug/l	99
64) Chlorobenzene	11.871	112	88134	19.168	ug/l	95
65) 1,1,1,2-Tetrachloroethane	11.935	131	32039	19.067	ug/l	95
66) Ethyl Benzene	11.947	91	140183	18.004	ug/l	94
67) m/p-Xylenes	12.053	106	109964	35.687	ug/l	98
68) o-Xylene	12.376	106	50281	17.011	ug/l	93
69) Styrene	12.388	104	87132	16.943	ug/l	97
70) Isopropylbenzene	12.676	105	128594	17.274	ug/l	97
71) 1,1,2,2-Tetrachloroethane	12.918	83	50220	19.177	ug/l	95
72) 1,2,3-Trichloropropane	12.976	75	48541m	20.749	ug/l	
73) Bromobenzene	12.965	156	35449	18.295	ug/l	97
74) n-propylbenzene	13.012	91	164804	17.531	ug/l	99
75) 2-Chlorotoluene	13.106	91	100061	17.722	ug/l	99
76) 1,3,5-Trimethylbenzene	13.153	105	113721	17.563	ug/l	100
77) t-1,4-Dichloro-2-butene	12.718	75	15810	16.910	ug/l	91
78) 4-Chlorotoluene	13.200	91	106841	17.743	ug/l	100
79) tert-butylbenzene	13.417	119	92847	16.884	ug/l	98
80) 1,2,4-Trimethylbenzene	13.459	105	114320	17.295	ug/l	98
81) sec-Butylbenzene	13.594	105	138278	17.423	ug/l	97
82) p-Isopropyltoluene	13.712	119	114161	16.760	ug/l	97
83) 1,3-Dichlorobenzene	13.712	146	67551	17.303	ug/l	96
84) 1,4-Dichlorobenzene	13.794	146	67619	17.548	ug/l	98
85) n-Butylbenzene	14.035	91	107410	17.122	ug/l	99
86) Hexachloroethane	14.312	117	25128	18.957	ug/l	95
87) 1,2-Dichlorobenzene	14.082	146	64472	17.540	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.700	75	10846	17.801	ug/l	94
89) 1,2,4-Trichlorobenzene	15.817	180	36816	17.363	ug/l	95
90) Hexachlorobutadiene	15.476	225	16815	19.226	ug/l	98
91) Naphthalene	15.617	128	125582	17.794	ug/l	99
92) 1,2,3-Trichlorobenzene	15.817	180	36816	17.363	ug/l	95

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

