

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN050725\
 Data File : VN086530.D
 Acq On : 07 May 2025 12:12
 Operator : JC\MD
 Sample : VN0507WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0507WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 05/08/2025
 Supervised By : Mahesh Dadoda 05/08/2025

Quant Time: May 08 03:25:10 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042325W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Apr 24 04:42:24 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	35494	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	201715	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	188357	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	94332	27.566	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	91.900%
60) 4-Bromofluorobenzene	12.847	95	109626	29.612	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	98.700%
63) Toluene-d8	10.565	98	299141	28.868	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	96.233%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	48358	19.734	ug/l	99
3) Chloromethane	2.359	50	59844	17.192	ug/l	98
4) Vinyl Chloride	2.518	62	57874	17.359	ug/l	100
5) Bromomethane	2.959	94	34455	19.795	ug/l	95
6) Chloroethane	3.124	64	38635	17.383	ug/l	91
7) Trichlorofluoromethane	3.501	101	79435	20.186	ug/l	99
8) Diethyl Ether	3.959	74	32897	19.804	ug/l	92
9) 1,1,2-Trichlorotrifluo...	4.371	101	47735	19.731	ug/l	96
10) 1,1-Dichloroethene	4.342	96	47673	19.253	ug/l	95
11) Methyl Iodide	4.595	142	59987	20.705	ug/l	99
12) Methyl Acetate	5.024	43	61433	17.504	ug/l	98
13) Acrolein	4.177	56	20545	127.950	ug/l	99
14) Acrylonitrile	5.712	53	126412	96.775	ug/l	100
15) Acetone	4.430	58	33336	92.615	ug/l	88
16) Carbon Disulfide	4.712	76	121197	18.575	ug/l	97
17) Allyl chloride	5.018	41	71444	18.044	ug/l	97
18) Methylene Chloride	5.271	84	56472	20.026	ug/l	95
19) trans-1,2-Dichloroethene	5.789	96	50902	19.286	ug/l	92
20) Diisopropyl ether	6.665	45	166107	17.645	ug/l	95
21) 1,1-Dichloroethane	6.559	63	94261	18.292	ug/l	97
22) cis-1,2-Dichloroethene	7.483	96	64880	19.659	ug/l	92
23) tert-Butyl Alcohol	5.518	59	55198	109.083	ug/l #	20
24) Methyl tert-Butyl Ether	5.795	73	178596	19.522	ug/l	98
25) Chloroform	7.959	83	99872	19.150	ug/l	97
26) Cyclohexane	8.253	56	78349	17.220	ug/l #	93
29) 1,1-Dichloropropene	8.371	75	68645	19.304	ug/l	98
30) 2-Butanone	7.477	43	168945	97.882	ug/l	97
31) 2,2-Dichloropropane	7.483	77	88081	19.268	ug/l	100
32) 1,1,1-Trichloroethane	8.165	97	87851	20.674	ug/l	97
33) Carbon Tetrachloride	8.359	117	72840	20.822	ug/l	96
34) Benzene	8.600	78	224594	19.857	ug/l	96
35) Methacrylonitrile	7.777	41	37562	19.078	ug/l	96
36) 1,2-Dichloroethane	8.665	62	76687	20.883	ug/l	100
37) Trichloroethene	9.347	130	57987	20.479	ug/l	93
38) Methylcyclohexane	9.600	83	79501	19.357	ug/l	97
39) 1,2-Dichloropropane	9.618	63	52885	18.927	ug/l	100
40) Dibromomethane	9.706	93	39216	20.987	ug/l	92
41) Bromodichloromethane	9.883	83	79793	20.179	ug/l	99
42) Vinyl Acetate	6.594	43	606311	101.406	ug/l	97

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43) Ethyl Acetate	7.559	43	69441	20.330	ug/l	93
44) Isopropyl Acetate	8.683	43	126204	19.468	ug/l	100
45) 1,4-Dioxane	9.688	88	24540	485.168	ug/l	94
46) Methyl methacrylate	9.677	41	56030	18.737	ug/l	94
47) n-amyl Acetate	12.488	43	106069	19.196	ug/l	98
48) t-1,3-Dichloropropene	10.829	75	87424	19.775	ug/l	100
49) cis-1,3-Dichloropropene	10.306	75	92401	19.820	ug/l	94
50) 1,1,2-Trichloroethane	11.012	97	55160	21.134	ug/l	95
51) Ethyl methacrylate	10.871	69	90887	19.994	ug/l	95
52) 1,3-Dichloropropane	11.159	76	94064	20.391	ug/l	100
53) Dibromochloromethane	11.359	129	61859	21.107	ug/l	99
54) 1,2-Dibromoethane	11.465	107	56670	21.354	ug/l	98
55) 2-Chloroethyl vinyl ether	10.153	63	184254	86.214	ug/l	98
56) Bromoform	12.576	173	42539	22.367	ug/l #	98
58) 4-Methyl-2-Pentanone	10.441	43	355187	97.446	ug/l	98
59) 2-Hexanone	11.188	43	262266	97.639	ug/l	97
61) Tetrachloroethene	11.100	164	61396	21.371	ug/l	96
62) Toluene	10.624	91	253424	20.101	ug/l	99
64) Chlorobenzene	11.888	112	166183	21.154	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.959	131	56243	21.412	ug/l	99
66) Ethyl Benzene	11.959	91	282450	19.903	ug/l	100
67) m/p-Xylenes	12.071	106	220481	40.946	ug/l	99
68) o-Xylene	12.394	106	109838	20.833	ug/l	96
69) Styrene	12.406	104	180117	20.156	ug/l	99
70) Isopropylbenzene	12.694	105	269453	20.474	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.935	83	75821	21.880	ug/l	99
72) 1,2,3-Trichloropropane	12.988	75	61562m	20.377	ug/l	
73) Bromobenzene	12.976	156	66561	21.999	ug/l	91
74) n-propylbenzene	13.029	91	309316	19.778	ug/l	97
75) 2-Chlorotoluene	13.123	91	199141	20.398	ug/l	98
76) 1,3,5-Trimethylbenzene	13.171	105	220686	20.436	ug/l	99
77) t-1,4-Dichloro-2-butene	12.729	75	28687	18.710	ug/l	97
78) 4-Chlorotoluene	13.218	91	193400	19.812	ug/l	97
79) tert-butylbenzene	13.435	119	191217	20.676	ug/l	97
80) 1,2,4-Trimethylbenzene	13.476	105	220815	20.022	ug/l	96
81) sec-Butylbenzene	13.612	105	261721	19.825	ug/l	98
82) p-Isopropyltoluene	13.723	119	223219	20.207	ug/l	99
83) 1,3-Dichlorobenzene	13.729	146	119739	20.935	ug/l	99
84) 1,4-Dichlorobenzene	13.806	146	116786	20.666	ug/l	99
85) n-Butylbenzene	14.053	91	180529	18.315	ug/l	98
86) Hexachloroethane	14.329	117	34268	18.971	ug/l	94
87) 1,2-Dichlorobenzene	14.100	146	114170	20.979	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.717	75	13556	19.246	ug/l	92
89) 1,2,4-Trichlorobenzene	15.835	180	51392	20.719	ug/l	99
90) Hexachlorobutadiene	15.494	225	20406	20.424	ug/l	96
91) Naphthalene	15.635	128	173847	19.577	ug/l	99
92) 1,2,3-Trichlorobenzene	15.835	180	51392	20.719	ug/l	99

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

