

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041125\
 Data File : VN086249.D
 Acq On : 11 Apr 2025 14:38
 Operator : JC\MD
 Sample : VN0411WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0411WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/14/2025
 Supervised By : Mahesh Dadoda 04/14/2025

Quant Time: Apr 12 01:48:27 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 01:21:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	32103	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	201467	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	175632	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	95625	30.539	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.800%			
60) 4-Bromofluorobenzene	12.847	95	104335	29.838	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 99.467%			
63) Toluene-d8	10.565	98	300690	30.325	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.100%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	58287	22.661	ug/l	99
3) Chloromethane	2.359	50	76833	21.612	ug/l	99
4) Vinyl Chloride	2.518	62	72960	21.546	ug/l	100
5) Bromomethane	2.965	94	34468	20.406	ug/l	92
6) Chloroethane	3.124	64	45142	21.111	ug/l	99
7) Trichlorofluoromethane	3.501	101	78964	21.497	ug/l	98
8) Diethyl Ether	3.959	74	35948	21.221	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.371	101	49466	21.838	ug/l	99
10) 1,1-Dichloroethene	4.342	96	52323	21.404	ug/l	97
11) Methyl Iodide	4.589	142	59569	21.202	ug/l	99
12) Methyl Acetate	5.024	43	69220	20.052	ug/l	98
13) Acrolein	4.177	56	30590	77.958	ug/l	99
14) Acrylonitrile	5.712	53	145157	99.606	ug/l	98
15) Acetone	4.424	58	35289	95.503	ug/l	93
16) Carbon Disulfide	4.712	76	153034	21.832	ug/l	99
17) Allyl chloride	5.024	41	91394	21.451	ug/l	98
18) Methylene Chloride	5.277	84	59182	21.234	ug/l	97
19) trans-1,2-Dichloroethene	5.783	96	53765	20.881	ug/l	99
20) Diisopropyl ether	6.665	45	200652	21.906	ug/l	98
21) 1,1-Dichloroethane	6.565	63	106184	21.728	ug/l	99
22) cis-1,2-Dichloroethene	7.483	96	65736	21.431	ug/l	98
23) tert-Butyl Alcohol	5.506	59	57260	94.827	ug/l #	100
24) Methyl tert-Butyl Ether	5.794	73	187291	21.230	ug/l	99
25) Chloroform	7.965	83	101051	21.684	ug/l	98
26) Cyclohexane	8.253	56	98792	21.608	ug/l #	98
29) 1,1-Dichloropropene	8.371	75	75242	20.848	ug/l	98
30) 2-Butanone	7.477	43	193486	96.751	ug/l	99
31) 2,2-Dichloropropane	7.488	77	93697	21.091	ug/l	100
32) 1,1,1-Trichloroethane	8.165	97	85736	20.651	ug/l	99
33) Carbon Tetrachloride	8.359	117	69324	20.895	ug/l	97
34) Benzene	8.600	78	240800	20.972	ug/l	95
35) Methacrylonitrile	7.777	41	44549	19.760	ug/l	96
36) 1,2-Dichloroethane	8.665	62	75064	20.892	ug/l	99
37) Trichloroethene	9.347	130	55823	20.150	ug/l	92
38) Methylcyclohexane	9.594	83	92449	20.887	ug/l	99
39) 1,2-Dichloropropane	9.618	63	59643	20.876	ug/l	97
40) Dibromomethane	9.706	93	36945	20.021	ug/l	99
41) Bromodichloromethane	9.882	83	81655	20.598	ug/l	99
42) Vinyl Acetate	6.594	43	723573	106.292	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.553	43	77965	19.328	ug/l	98
44) Isopropyl Acetate	8.683	43	150010	20.046	ug/l	99
45) 1,4-Dioxane	9.688	88	21831	366.878	ug/l #	93
46) Methyl methacrylate	9.677	41	66579	20.193	ug/l	99
47) n-amyl Acetate	12.488	43	118327	19.943	ug/l	100
48) t-1,3-Dichloropropene	10.829	75	92056	20.541	ug/l	99
49) cis-1,3-Dichloropropene	10.306	75	98100	20.682	ug/l	95
50) 1,1,2-Trichloroethane	11.012	97	52750	20.382	ug/l	98
51) Ethyl methacrylate	10.871	69	97258	20.222	ug/l	98
52) 1,3-Dichloropropane	11.159	76	96585	20.938	ug/l	100
53) Dibromochloromethane	11.353	129	57663	20.369	ug/l	98
54) 1,2-Dibromoethane	11.465	107	52283	20.012	ug/l	99
55) 2-Chloroethyl vinyl ether	10.153	63	182299	100.309	ug/l	100
56) Bromoform	12.576	173	36790	19.864	ug/l	99
58) 4-Methyl-2-Pentanone	10.441	43	405618	101.770	ug/l	100
59) 2-Hexanone	11.194	43	298673	100.637	ug/l	100
61) Tetrachloroethene	11.100	164	54335	20.949	ug/l	98
62) Toluene	10.624	91	251566	21.355	ug/l	100
64) Chlorobenzene	11.888	112	148243	20.597	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.959	131	50696	21.344	ug/l	100
66) Ethyl Benzene	11.959	91	273823	20.960	ug/l	98
67) m/p-Xylenes	12.065	106	202596	41.705	ug/l	98
68) o-Xylene	12.394	106	100957	21.129	ug/l	99
69) Styrene	12.406	104	168655	20.929	ug/l	99
70) Isopropylbenzene	12.694	105	249762	21.200	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.935	83	69753	20.801	ug/l	99
72) 1,2,3-Trichloropropane	12.988	75	70785m	20.279	ug/l	
73) Bromobenzene	12.976	156	53692	20.572	ug/l	98
74) n-propylbenzene	13.029	91	295354	21.231	ug/l	99
75) 2-Chlorotoluene	13.123	91	183287	20.961	ug/l	99
76) 1,3,5-Trimethylbenzene	13.170	105	206643	21.352	ug/l	98
77) t-1,4-Dichloro-2-butene	12.735	75	31266	19.426	ug/l	94
78) 4-Chlorotoluene	13.218	91	179801	20.589	ug/l	99
79) tert-butylbenzene	13.435	119	173459	20.714	ug/l	99
80) 1,2,4-Trimethylbenzene	13.476	105	203945	20.782	ug/l	99
81) sec-Butylbenzene	13.612	105	249442	21.354	ug/l	99
82) p-Isopropyltoluene	13.723	119	207519	21.296	ug/l	100
83) 1,3-Dichlorobenzene	13.729	146	98830	20.374	ug/l	99
84) 1,4-Dichlorobenzene	13.806	146	99189	20.383	ug/l	99
85) n-Butylbenzene	14.053	91	191298	21.761	ug/l	99
86) Hexachloroethane	14.329	117	33590	20.435	ug/l	100
87) 1,2-Dichlorobenzene	14.100	146	95565	19.953	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.712	75	14160	18.539	ug/l	99
89) 1,2,4-Trichlorobenzene	15.835	180	45993	19.736	ug/l	99
90) Hexachlorobutadiene	15.494	225	19273	19.154	ug/l	96
91) Naphthalene	15.635	128	169515	18.449	ug/l	99
92) 1,2,3-Trichlorobenzene	15.835	180	45993	19.736	ug/l	99

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

