

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042425\
 Data File : VN086394.D
 Acq On : 24 Apr 2025 12:22
 Operator : JC\MD
 Sample : VN0424WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0424WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/25/2025
 Supervised By : Mahesh Dadoda 04/25/2025

Quant Time: Apr 25 01:39:30 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	29443	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	175060	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.859	117	162491	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	88123	31.044	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 103.467%			
60) 4-Bromofluorobenzene	12.841	95	94012	29.437	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 98.133%			
63) Toluene-d8	10.565	98	269141	30.107	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.367%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	39520	19.442	ug/l	94
3) Chloromethane	2.360	50	52096	18.042	ug/l	99
4) Vinyl Chloride	2.513	62	50839	18.383	ug/l	98
5) Bromomethane	2.965	94	27801	19.255	ug/l	97
6) Chloroethane	3.124	64	34811	18.882	ug/l	97
7) Trichlorofluoromethane	3.501	101	60001	18.381	ug/l	99
8) Diethyl Ether	3.960	74	27647	20.064	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.371	101	38168	19.019	ug/l	97
10) 1,1-Dichloroethene	4.342	96	37197	18.109	ug/l	97
11) Methyl Iodide	4.589	142	45406	18.893	ug/l	98
12) Methyl Acetate	5.012	43	62951	21.622	ug/l	98
13) Acrolein	4.183	56	16888	126.441	ug/l	100
14) Acrylonitrile	5.718	53	114092	105.294	ug/l	100
15) Acetone	4.424	58	28885	96.742	ug/l	98
16) Carbon Disulfide	4.712	76	97623	18.037	ug/l	98
17) Allyl chloride	5.024	41	61250	18.649	ug/l	92
18) Methylene Chloride	5.271	84	45977	19.655	ug/l	96
19) trans-1,2-Dichloroethene	5.783	96	41341	18.883	ug/l	94
20) Diisopropyl ether	6.665	45	155739	19.943	ug/l	95
21) 1,1-Dichloroethane	6.559	63	83129	19.447	ug/l	98
22) cis-1,2-Dichloroethene	7.483	96	52990	19.357	ug/l	97
23) tert-Butyl Alcohol	5.512	59	47919	114.160	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	158233	20.850	ug/l #	83
25) Chloroform	7.959	83	85520	19.768	ug/l	98
26) Cyclohexane	8.253	56	69404	18.388	ug/l #	100
29) 1,1-Dichloropropene	8.371	75	58397	18.922	ug/l	99
30) 2-Butanone	7.477	43	158628	105.898	ug/l	100
31) 2,2-Dichloropropane	7.483	77	75133	18.938	ug/l	99
32) 1,1,1-Trichloroethane	8.165	97	71384	19.356	ug/l	99
33) Carbon Tetrachloride	8.359	117	57980	19.098	ug/l	98
34) Benzene	8.600	78	192469	19.608	ug/l	97
35) Methacrylonitrile	7.771	41	35105	20.545	ug/l	97
36) 1,2-Dichloroethane	8.665	62	66490	20.863	ug/l	100
37) Trichloroethene	9.347	130	47862	19.477	ug/l	94
38) Methylcyclohexane	9.594	83	67068	18.817	ug/l	100
39) 1,2-Dichloropropane	9.618	63	48208	19.880	ug/l	95
40) Dibromomethane	9.706	93	33085	20.401	ug/l	97
41) Bromodichloromethane	9.883	83	69799	20.339	ug/l	98
42) Vinyl Acetate	6.601	43	532074	102.539	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.553	43	61698	20.813	ug/l	98
44) Isopropyl Acetate	8.683	43	116969	20.790	ug/l	99
45) 1,4-Dioxane	9.689	88	19563	445.661	ug/l	98
46) Methyl methacrylate	9.677	41	53159	20.484	ug/l	99
47) n-amyl Acetate	12.488	43	94796	19.769	ug/l	100
48) t-1,3-Dichloropropene	10.836	75	76048	19.821	ug/l	100
49) cis-1,3-Dichloropropene	10.306	75	80221	19.827	ug/l	97
50) 1,1,2-Trichloroethane	11.012	97	46038	20.324	ug/l	98
51) Ethyl methacrylate	10.871	69	80319	20.360	ug/l	100
52) 1,3-Dichloropropane	11.159	76	82373	20.576	ug/l	98
53) Dibromochloromethane	11.353	129	51306	20.171	ug/l	99
54) 1,2-Dibromoethane	11.465	107	47394	20.578	ug/l	99
55) 2-Chloroethyl vinyl ether	10.159	63	216290	116.613	ug/l	99
56) Bromoform	12.577	173	33024	20.008	ug/l	100
58) 4-Methyl-2-Pentanone	10.441	43	334041	106.233	ug/l	99
59) 2-Hexanone	11.194	43	243028	104.879	ug/l	99
61) Tetrachloroethene	11.100	164	47478	19.157	ug/l	94
62) Toluene	10.624	91	210546	19.358	ug/l	99
64) Chlorobenzene	11.888	112	131513	19.405	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.959	131	45225	19.958	ug/l	99
66) Ethyl Benzene	11.959	91	232535	18.994	ug/l	98
67) m/p-Xylenes	12.065	106	176674	38.034	ug/l	99
68) o-Xylene	12.394	106	88078	19.365	ug/l	97
69) Styrene	12.406	104	145669	18.896	ug/l	99
70) Isopropylbenzene	12.688	105	216010	19.026	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.935	83	63948	21.391	ug/l	97
72) 1,2,3-Trichloropropane	12.988	75	54165m	20.782	ug/l	
73) Bromobenzene	12.977	156	50886	19.495	ug/l	99
74) n-propylbenzene	13.035	91	253712	18.805	ug/l	100
75) 2-Chlorotoluene	13.124	91	160425	19.048	ug/l	99
76) 1,3,5-Trimethylbenzene	13.171	105	175865	18.878	ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	25091	18.969	ug/l	96
78) 4-Chlorotoluene	13.218	91	156822	18.623	ug/l	100
79) tert-butylbenzene	13.435	119	152261	19.084	ug/l	99
80) 1,2,4-Trimethylbenzene	13.477	105	177841	18.693	ug/l	98
81) sec-Butylbenzene	13.612	105	211821	18.599	ug/l	99
82) p-Isopropyltoluene	13.724	119	174431	18.304	ug/l	99
83) 1,3-Dichlorobenzene	13.729	146	91158	18.475	ug/l	99
84) 1,4-Dichlorobenzene	13.806	146	92214	18.916	ug/l	98
85) n-Butylbenzene	14.053	91	153335	18.032	ug/l	100
86) Hexachloroethane	14.329	117	27881	17.892	ug/l	98
87) 1,2-Dichlorobenzene	14.100	146	90594	19.296	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.718	75	12479	20.537	ug/l	97
89) 1,2,4-Trichlorobenzene	15.835	180	40370	18.866	ug/l	98
90) Hexachlorobutadiene	15.500	225	16485	19.126	ug/l	97
91) Naphthalene	15.635	128	150152	19.600	ug/l	99
92) 1,2,3-Trichlorobenzene	15.835	180	40370	18.866	ug/l	98

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

