

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042325\
 Data File : VN086378.D
 Acq On : 23 Apr 2025 11:53
 Operator : JC\MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/24/2025
 Supervised By : Mahesh Dadoda 04/25/2025

Quant Time: Apr 24 04:24:36 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042325W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Apr 24 03:57:58 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	30321	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.094	114	175444	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	164865	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	84791	29.005	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	96.667%		
60) 4-Bromofluorobenzene	12.847	95	102335	31.582	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	105.267%		
63) Toluene-d8	10.565	98	269389	29.701	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	99.000%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	299421	143.036	ug/l	98
3) Chloromethane	2.359	50	402250	135.277	ug/l	98
4) Vinyl Chloride	2.512	62	401875	141.109	ug/l	99
5) Bromomethane	2.936	94	203863	137.107	ug/l	99
6) Chloroethane	3.112	64	272792	143.678	ug/l	96
7) Trichlorofluoromethane	3.495	101	483366	143.788	ug/l	99
8) Diethyl Ether	3.959	74	204867	144.374	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.371	101	301117	145.702	ug/l	98
10) 1,1-Dichloroethene	4.336	96	304401	143.905	ug/l	96
11) Methyl Iodide	4.583	142	373705	150.992	ug/l	97
12) Methyl Acetate	5.018	43	461659	153.979	ug/l	99
13) Acrolein	4.177	56	81825	737.319	ug/l	98
14) Acrylonitrile	5.712	53	835092	748.379	ug/l	99
15) Acetone	4.418	58	226833	737.712	ug/l	97
16) Carbon Disulfide	4.712	76	741034	132.947	ug/l	99
17) Allyl chloride	5.018	41	488863	144.536	ug/l	97
18) Methylene Chloride	5.271	84	350170	145.364	ug/l	97
19) trans-1,2-Dichloroethene	5.789	96	331115	146.862	ug/l	97
20) Diisopropyl ether	6.665	45	1209486	150.395	ug/l	96
21) 1,1-Dichloroethane	6.565	63	650070	147.673	ug/l	98
22) cis-1,2-Dichloroethene	7.483	96	419371	148.755	ug/l	98
23) tert-Butyl Alcohol	5.512	59	299669	693.246	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	1155950	147.908	ug/l	100
25) Chloroform	7.965	83	654724	146.957	ug/l	98
26) Cyclohexane	8.253	56	566144	145.656	ug/l #	99
29) 1,1-Dichloropropene	8.371	75	474701	153.479	ug/l	99
30) 2-Butanone	7.477	43	1154112	768.782	ug/l	100
31) 2,2-Dichloropropane	7.488	77	605480	152.287	ug/l	98
32) 1,1,1-Trichloroethane	8.165	97	560564	151.669	ug/l	99
33) Carbon Tetrachloride	8.359	117	465350	152.946	ug/l	97
34) Benzene	8.600	78	1491870	151.652	ug/l	97
35) Methacrylonitrile	7.771	41	264432	154.415	ug/l	97
36) 1,2-Dichloroethane	8.665	62	487034	152.489	ug/l	100
37) Trichloroethene	9.347	130	387155	157.207	ug/l	95
38) Methylcyclohexane	9.594	83	538821	150.840	ug/l	99
39) 1,2-Dichloropropane	9.618	63	364271	149.889	ug/l	98
40) Dibromomethane	9.706	93	248997	153.205	ug/l	98
41) Bromodichloromethane	9.882	83	525304	152.734	ug/l	99
42) Vinyl Acetate	6.600	43	3696622	710.838	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	443217	149.188	ug/l	99
44) Isopropyl Acetate	8.683	43	834366	147.977	ug/l	98
45) 1,4-Dioxane	9.694	88	129985	2954.683	ug/l	96
46) Methyl methacrylate	9.677	41	398936	153.385	ug/l	99
47) n-amyl Acetate	12.488	43	794729	165.368	ug/l	100
48) t-1,3-Dichloropropene	10.829	75	606406	157.708	ug/l	99
49) cis-1,3-Dichloropropene	10.306	75	632116	155.890	ug/l	99
50) 1,1,2-Trichloroethane	11.012	97	351630	154.894	ug/l	98
51) Ethyl methacrylate	10.871	69	626046	158.346	ug/l	99
52) 1,3-Dichloropropane	11.159	76	618867	154.247	ug/l	99
53) Dibromochloromethane	11.353	129	400588	157.150	ug/l	99
54) 1,2-Dibromoethane	11.465	107	357033	154.682	ug/l	100
55) 2-Chloroethyl vinyl ether	10.159	63	1507826	811.169	ug/l	100
56) Bromoform	12.576	173	269808	163.108	ug/l	100
58) 4-Methyl-2-Pentanone	10.441	43	2458272	770.528	ug/l	100
59) 2-Hexanone	11.194	43	1818182	773.342	ug/l	99
61) Tetrachloroethene	11.100	164	388387	154.457	ug/l	96
62) Toluene	10.624	91	1668443	151.191	ug/l	99
64) Chlorobenzene	11.888	112	1045317	152.021	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.959	131	355984	154.833	ug/l	99
66) Ethyl Benzene	11.959	91	1924632	154.943	ug/l	99
67) m/p-Xylenes	12.071	106	1465950	311.039	ug/l	98
68) o-Xylene	12.394	106	723738	156.834	ug/l	98
69) Styrene	12.406	104	1271246	162.527	ug/l	100
70) Isopropylbenzene	12.694	105	1820093	158.002	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.935	83	445651	146.927	ug/l	99
72) 1,2,3-Trichloropropane	12.988	75	413811m	157.445	ug/l	
73) Bromobenzene	12.976	156	419234	158.301	ug/l	98
74) n-propylbenzene	13.035	91	2201757	160.846	ug/l	100
75) 2-Chlorotoluene	13.123	91	1351179	158.123	ug/l	99
76) 1,3,5-Trimethylbenzene	13.170	105	1539420	162.869	ug/l	100
77) t-1,4-Dichloro-2-butene	12.735	75	220662	164.423	ug/l	97
78) 4-Chlorotoluene	13.218	91	1398536	163.684	ug/l	100
79) tert-butylbenzene	13.435	119	1289675	159.319	ug/l	100
80) 1,2,4-Trimethylbenzene	13.476	105	1578141	163.487	ug/l	97
81) sec-Butylbenzene	13.612	105	1869347	161.777	ug/l	99
82) p-Isopropyltoluene	13.723	119	1628968	168.473	ug/l	100
83) 1,3-Dichlorobenzene	13.729	146	833116	166.415	ug/l	98
84) 1,4-Dichlorobenzene	13.806	146	817212	165.219	ug/l	99
85) n-Butylbenzene	14.053	91	1470566	170.449	ug/l	99
86) Hexachloroethane	14.329	117	267570	169.237	ug/l	98
87) 1,2-Dichlorobenzene	14.100	146	773464	162.374	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	14.717	75	98763	160.195	ug/l	97
89) 1,2,4-Trichlorobenzene	15.835	180	358682	165.211	ug/l	99
90) Hexachlorobutadiene	15.494	225	132753	151.803	ug/l	98
91) Naphthalene	15.635	128	1293022	166.356	ug/l	100
92) 1,2,3-Trichlorobenzene	15.835	180	358682	165.211	ug/l	99

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

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