

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072325\
 Data File : VN087406.D
 Acq On : 23 Jul 2025 14:57
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN072325

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/24/2025
 Supervised By : Mahesh Dadoda 07/24/2025

Quant Time: Jul 24 05:13:17 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	7.794	128	28418	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.083	114	146041	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	130301	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	71536	30.523	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.733%			
60) 4-Bromofluorobenzene	12.829	95	63125	29.038	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 96.800%			
63) Toluene-d8	10.547	98	177328	29.925	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.767%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.142	85	32291	18.571	ug/l	94
3) Chloromethane	2.383	50	31544	18.264	ug/l	100
4) Vinyl Chloride	2.542	62	36783	19.324	ug/l	98
5) Bromomethane	2.983	94	22210	18.856	ug/l	97
6) Chloroethane	3.142	64	28986	19.814	ug/l #	80
7) Trichlorofluoromethane	3.506	101	61179	18.899	ug/l	96
8) Diethyl Ether	3.965	74	25776	20.003	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.371	101	32417	18.896	ug/l #	36
10) 1,1-Dichloroethene	4.330	96	34495m	19.367	ug/l	
11) Methyl Iodide	4.577	142	20564	15.828	ug/l	90
12) Methyl Acetate	5.018	43	45382	19.590	ug/l	98
13) Acrolein	4.177	56	43437	103.136	ug/l	99
14) Acrylonitrile	5.706	53	101122	95.581	ug/l #	87
15) Acetone	4.418	58	37968	101.649	ug/l	93
16) Carbon Disulfide	4.700	76	88979	19.344	ug/l	99
17) Allyl chloride	5.006	41	42378	17.369	ug/l	93
18) Methylene Chloride	5.271	84	34807m	19.310	ug/l	
19) trans-1,2-Dichloroethene	5.771	96	32079	18.340	ug/l	95
20) Diisopropyl ether	6.659	45	108364	17.564	ug/l	100
21) 1,1-Dichloroethane	6.559	63	63265	19.198	ug/l	93
22) cis-1,2-Dichloroethene	7.477	96	38258	18.673	ug/l	98
23) tert-Butyl Alcohol	5.524	59	37828	104.327	ug/l #	100
24) Methyl tert-Butyl Ether	5.783	73	107632	18.700	ug/l #	77
25) Chloroform	7.947	83	68637	19.017	ug/l	98
26) Cyclohexane	8.241	56	41943	17.073	ug/l #	93
29) 1,1-Dichloropropene	8.353	75	41467	16.642	ug/l	98
30) 2-Butanone	7.471	43	148938	87.771	ug/l	100
31) 2,2-Dichloropropane	7.477	77	59060	18.049	ug/l	100
32) 1,1,1-Trichloroethane	8.153	97	57474	17.624	ug/l	99
33) Carbon Tetrachloride	8.347	117	49146	17.348	ug/l	98
34) Benzene	8.588	78	138310	17.187	ug/l	97
35) Methacrylonitrile	7.765	41	29197	16.362	ug/l	88
36) 1,2-Dichloroethane	8.653	62	53833	16.957	ug/l	98
37) Trichloroethene	9.330	130	31214	16.997	ug/l	91
38) Methylcyclohexane	9.583	83	42324	16.069	ug/l	98
39) 1,2-Dichloropropane	9.606	63	34351	16.992	ug/l	91
40) Dibromomethane	9.694	93	26768	17.114	ug/l	100
41) Bromodichloromethane	9.871	83	54399	17.517	ug/l #	90
42) Vinyl Acetate	6.589	43	469103	81.608	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.547	43	60149	17.412	ug/l #	80
44) Isopropyl Acetate	8.671	43	92275	16.920	ug/l	95
45) 1,4-Dioxane	9.683	88	12301	366.098	ug/l #	63
46) Methyl methacrylate	9.665	41	35092	13.973	ug/l	90
47) n-amyl Acetate	12.529	43	63419m	19.405	ug/l	
48) t-1,3-Dichloropropene	10.818	75	53391	16.116	ug/l	97
49) cis-1,3-Dichloropropene	10.294	75	56449	17.037	ug/l	93
50) 1,1,2-Trichloroethane	10.994	97	33573	16.620	ug/l	97
51) Ethyl methacrylate	10.859	69	47984	15.533	ug/l	95
52) 1,3-Dichloropropane	11.141	76	58111	16.731	ug/l	99
53) Dibromochloromethane	11.341	129	41783	17.648	ug/l	100
54) 1,2-Dibromoethane	11.447	107	36041	17.406	ug/l	100
55) 2-Chloroethyl vinyl ether	10.141	63	124745	72.592	ug/l	99
56) Bromoform	12.559	173	25923	15.395	ug/l #	97
58) 4-Methyl-2-Pentanone	10.430	43	297339	93.321	ug/l	99
59) 2-Hexanone	11.177	43	195198	90.765	ug/l	99
61) Tetrachloroethene	11.088	164	27998	19.241	ug/l	92
62) Toluene	10.612	91	143417	18.073	ug/l	100
64) Chlorobenzene	11.871	112	93824	18.493	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.935	131	34623	18.675	ug/l	99
66) Ethyl Benzene	11.941	91	151123	17.591	ug/l	98
67) m/p-Xylenes	12.053	106	121002	35.590	ug/l	100
68) o-Xylene	12.376	106	57520	17.637	ug/l	99
69) Styrene	12.394	104	98870	17.424	ug/l	97
70) Isopropylbenzene	12.676	105	140498	17.105	ug/l	97
71) 1,1,2,2-Tetrachloroethane	12.918	83	50739	17.560	ug/l	93
72) 1,2,3-Trichloropropane	12.971	75	43963m	17.031	ug/l	
73) Bromobenzene	12.959	156	38565	18.038	ug/l	96
74) n-propylbenzene	13.012	91	176863	17.051	ug/l	99
75) 2-Chlorotoluene	13.106	91	110798	17.785	ug/l	100
76) 1,3,5-Trimethylbenzene	13.153	105	123452	17.279	ug/l	100
77) t-1,4-Dichloro-2-butene	12.718	75	14650	14.201	ug/l	80
78) 4-Chlorotoluene	13.200	91	113552	17.090	ug/l	100
79) tert-butylbenzene	13.418	119	99044	16.323	ug/l	97
80) 1,2,4-Trimethylbenzene	13.459	105	124642	17.090	ug/l	99
81) sec-Butylbenzene	13.594	105	148771	16.989	ug/l	100
82) p-Isopropyltoluene	13.706	119	123224	16.395	ug/l	96
83) 1,3-Dichlorobenzene	13.712	146	73978	17.174	ug/l	99
84) 1,4-Dichlorobenzene	13.788	146	74216	17.455	ug/l	96
85) n-Butylbenzene	14.035	91	113070	16.335	ug/l	99
86) Hexachloroethane	14.312	117	24849	16.990	ug/l	99
87) 1,2-Dichlorobenzene	14.082	146	70273	17.327	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.700	75	12352	18.373	ug/l	91
89) 1,2,4-Trichlorobenzene	15.817	180	39015	16.676	ug/l	96
90) Hexachlorobutadiene	15.476	225	17050	17.668	ug/l	93
91) Naphthalene	15.617	128	131958	16.946	ug/l	98
92) 1,2,3-Trichlorobenzene	15.817	180	39015	16.676	ug/l	96

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

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