

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN040425\
 Data File : VN086228.D
 Acq On : 04 Apr 2025 12:50
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/07/2025
 Supervised By : Mahesh Dadoda 04/07/2025

Quant Time: Apr 04 23:46:36 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N040425W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Apr 04 23:41:25 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	28576	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	157501	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	139269	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	83300	29.045	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	96.833%		
60) 4-Bromofluorobenzene	12.847	95	77311	29.794	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	99.300%		
63) Toluene-d8	10.565	98	236679	30.463	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	101.533%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	12353	6.379	ug/l	98
3) Chloromethane	2.359	50	14521	6.903	ug/l	98
4) Vinyl Chloride	2.518	62	13097	6.686	ug/l	95
5) Bromomethane	2.959	94	7250	7.136	ug/l	97
6) Chloroethane	3.118	64	8020	6.860	ug/l	97
7) Trichlorofluoromethane	3.501	101	19234	7.335	ug/l	85
8) Diethyl Ether	3.953	74	6170	7.060	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.371	101	10918	7.486	ug/l	73
10) 1,1-Dichloroethene	4.348	96	10305	7.239	ug/l	94
11) Methyl Iodide	4.583	142	12771	6.994	ug/l	94
12) Methyl Acetate	5.018	43	13890	7.384	ug/l #	86
13) Acrolein	4.177	56	9525	46.357	ug/l	84
14) Acrylonitrile	5.718	53	26607	36.285	ug/l	88
15) Acetone	4.424	58	8073	35.291	ug/l	85
16) Carbon Disulfide	4.706	76	34446	7.553	ug/l	99
17) Allyl chloride	5.018	41	13958	7.049	ug/l	89
18) Methylene Chloride	5.265	84	11702	6.856	ug/l #	90
19) trans-1,2-Dichloroethene	5.783	96	11726	7.627	ug/l #	85
20) Diisopropyl ether	6.665	45	30979	7.452	ug/l	91
21) 1,1-Dichloroethane	6.565	63	21597	7.623	ug/l #	92
22) cis-1,2-Dichloroethene	7.489	96	12934	7.093	ug/l	94
23) tert-Butyl Alcohol	5.506	59	9572	35.748	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	33307	7.162	ug/l	96
25) Chloroform	7.965	83	22800	7.669	ug/l	98
26) Cyclohexane	8.259	56	15623	6.850	ug/l #	99
29) 1,1-Dichloropropene	8.371	75	14562	7.368	ug/l	96
30) 2-Butanone	7.483	43	31934	36.754	ug/l	99
31) 2,2-Dichloropropane	7.489	77	18634	7.652	ug/l #	84
32) 1,1,1-Trichloroethane	8.171	97	20301	7.596	ug/l	99
33) Carbon Tetrachloride	8.359	117	17184	7.539	ug/l	94
34) Benzene	8.600	78	47900	7.299	ug/l #	88
35) Methacrylonitrile	7.771	41	6805	7.015	ug/l	91
36) 1,2-Dichloroethane	8.665	62	16429	7.538	ug/l	99
37) Trichloroethene	9.347	130	12690	8.074	ug/l	83
38) Methylcyclohexane	9.600	83	14929	7.199	ug/l	98
39) 1,2-Dichloropropane	9.618	63	11861	7.800	ug/l	98
40) Dibromomethane	9.706	93	8134	7.249	ug/l	92
41) Bromodichloromethane	9.888	83	17446	7.741	ug/l	99
42) Vinyl Acetate	6.600	43	106269	34.321	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.553	43	13066m	7.314	ug/l	
44) Isopropyl Acetate	8.683	43	22903	7.103	ug/l #	77
45) 1,4-Dioxane	9.688	88	4405	149.018	ug/l #	64
46) Methyl methacrylate	9.677	41	9093	6.885	ug/l	94
47) n-amyl Acetate	12.488	43	14928	6.776	ug/l	97
48) t-1,3-Dichloropropene	10.835	75	17374	7.481	ug/l	95
49) cis-1,3-Dichloropropene	10.306	75	18193	7.250	ug/l	97
50) 1,1,2-Trichloroethane	11.012	97	11198	7.633	ug/l	92
51) Ethyl methacrylate	10.871	69	14936	7.172	ug/l	95
52) 1,3-Dichloropropane	11.159	76	18734	7.330	ug/l	99
53) Dibromochloromethane	11.359	129	13227	7.744	ug/l	89
54) 1,2-Dibromoethane	11.465	107	10832	7.196	ug/l	99
55) 2-Chloroethyl vinyl ether	10.159	63	38388	40.197	ug/l	99
56) Bromoform	12.576	173	8549	7.398	ug/l	98
58) 4-Methyl-2-Pentanone	10.441	43	61674	37.523	ug/l	98
59) 2-Hexanone	11.194	43	44483	37.705	ug/l	98
61) Tetrachloroethene	11.100	164	12164	7.484	ug/l	95
62) Toluene	10.630	91	48987	7.705	ug/l	99
64) Chlorobenzene	11.888	112	31406	7.917	ug/l	96
65) 1,1,1,2-Tetrachloroethane	11.959	131	11868	8.130	ug/l	99
66) Ethyl Benzene	11.959	91	47898	7.260	ug/l	95
67) m/p-Xylenes	12.071	106	38134	14.642	ug/l	99
68) o-Xylene	12.394	106	17182	6.835	ug/l	89
69) Styrene	12.406	104	28554	7.123	ug/l	98
70) Isopropylbenzene	12.694	105	43838	6.987	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.935	83	14121	7.760	ug/l	99
72) 1,2,3-Trichloropropane	12.988	75	15420m	8.776	ug/l	
73) Bromobenzene	12.976	156	12396	7.668	ug/l	96
74) n-propylbenzene	13.029	91	50517	7.033	ug/l	99
75) 2-Chlorotoluene	13.123	91	34680	7.251	ug/l	100
76) 1,3,5-Trimethylbenzene	13.171	105	36607	6.921	ug/l	99
77) t-1,4-Dichloro-2-butene	12.729	75	4970	7.092	ug/l	80
78) 4-Chlorotoluene	13.218	91	34310	7.233	ug/l	100
79) tert-butylbenzene	13.435	119	30057	6.896	ug/l	99
80) 1,2,4-Trimethylbenzene	13.476	105	36302	6.840	ug/l	95
81) sec-Butylbenzene	13.612	105	42677	7.149	ug/l	99
82) p-Isopropyltoluene	13.723	119	34002	6.961	ug/l	97
83) 1,3-Dichlorobenzene	13.729	146	22025	7.501	ug/l	99
84) 1,4-Dichlorobenzene	13.812	146	22559	7.871	ug/l	95
85) n-Butylbenzene	14.053	91	28866	7.319	ug/l	97
86) Hexachloroethane	14.329	117	6454	7.457	ug/l	92
87) 1,2-Dichlorobenzene	14.106	146	22329	7.764	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.712	75	3050	7.877	ug/l	93
89) 1,2,4-Trichlorobenzene	15.835	180	11161	7.977	ug/l	95
90) Hexachlorobutadiene	15.494	225	7164	9.340	ug/l	95
91) Naphthalene	15.635	128	33727	7.437	ug/l	100
92) 1,2,3-Trichlorobenzene	15.835	180	11161	7.977	ug/l	95

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

