

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN010725\
 Data File : VN085390.D
 Acq On : 07 Jan 2025 10:30
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 01/08/2025
 Supervised By : Mahesh Dadoda 01/08/2025

Quant Time: Jan 08 04:14:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Dec 21 02:03:07 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.806	128	28915	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.094	114	149310	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.859	117	139056	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.571	65	75780	29.792	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.300%		
60) 4-Bromofluorobenzene	12.847	95	68164	30.262	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	100.867%		
63) Toluene-d8	10.559	98	209330	30.829	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	102.767%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	50713	20.976	ug/l	97
3) Chloromethane	2.359	50	47297	19.376	ug/l	97
4) Vinyl Chloride	2.518	62	50133	20.226	ug/l	97
5) Bromomethane	2.971	94	28948	19.978	ug/l	97
6) Chloroethane	3.130	64	31954	20.422	ug/l #	88
7) Trichlorofluoromethane	3.506	101	73081	21.462	ug/l	98
8) Diethyl Ether	3.959	74	21658	18.468	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.377	101	43048	22.015	ug/l	70
10) 1,1-Dichloroethene	4.341	96	35521	19.886	ug/l	92
11) Methyl Iodide	4.589	142	41778	19.515	ug/l	95
12) Methyl Acetate	5.024	43	50308	18.859	ug/l #	86
13) Acrolein	4.171	56	19111	80.250	ug/l	98
14) Acrylonitrile	5.712	53	84706	82.099	ug/l	97
15) Acetone	4.424	58	21806m	83.783	ug/l	
16) Carbon Disulfide	4.712	76	105201	19.375	ug/l	97
17) Allyl chloride	5.024	41	52928	18.317	ug/l	94
18) Methylene Chloride	5.271	84	42803	20.109	ug/l	95
19) trans-1,2-Dichloroethene	5.783	96	38717	20.839	ug/l	93
20) Diisopropyl ether	6.665	45	134691	20.338	ug/l	100
21) 1,1-Dichloroethane	6.565	63	80673	20.838	ug/l #	95
22) cis-1,2-Dichloroethene	7.482	96	45435	20.537	ug/l	94
23) tert-Butyl Alcohol	5.506	59	21430	63.024	ug/l #	100
24) Methyl tert-Butyl Ether	5.788	73	113019	19.276	ug/l #	76
25) Chloroform	7.965	83	82740	21.083	ug/l	97
26) Cyclohexane	8.253	56	55631	18.846	ug/l #	94
29) 1,1-Dichloropropene	8.365	75	54586	21.056	ug/l	99
30) 2-Butanone	7.477	43	110032	80.410	ug/l	100
31) 2,2-Dichloropropane	7.488	77	69072	21.027	ug/l	100
32) 1,1,1-Trichloroethane	8.159	97	71816	21.310	ug/l	98
33) Carbon Tetrachloride	8.353	117	63272	21.448	ug/l	90
34) Benzene	8.600	78	170861	20.851	ug/l	100
35) Methacrylonitrile	7.771	41	25603	16.902	ug/l	95
36) 1,2-Dichloroethane	8.665	62	60409	20.387	ug/l	100
37) Trichloroethene	9.347	130	37201	20.634	ug/l	98
38) Methylcyclohexane	9.594	83	51887	19.342	ug/l	97
39) 1,2-Dichloropropane	9.612	63	42613	20.440	ug/l	100
40) Dibromomethane	9.706	93	29667	20.410	ug/l	97
41) Bromodichloromethane	9.882	83	63085	20.767	ug/l	96
42) Vinyl Acetate	6.594	43	431274	89.286	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.553	43	50602	17.882	ug/l	94
44) Isopropyl Acetate	8.682	43	83519	17.766	ug/l	98
45) 1,4-Dioxane	9.688	88	10868	297.233	ug/l	97
46) Methyl methacrylate	9.671	41	36890	16.906	ug/l	92
47) n-amyl Acetate	12.488	43	66733	16.664	ug/l	96
48) t-1,3-Dichloropropene	10.829	75	58855	19.615	ug/l	99
49) cis-1,3-Dichloropropene	10.306	75	63493	19.683	ug/l	97
50) 1,1,2-Trichloroethane	11.012	97	38701	20.358	ug/l	97
51) Ethyl methacrylate	10.870	69	51817	18.022	ug/l	92
52) 1,3-Dichloropropane	11.159	76	67300	20.281	ug/l	99
53) Dibromochloromethane	11.353	129	45829	20.575	ug/l	99
54) 1,2-Dibromoethane	11.465	107	36440	19.808	ug/l	100
55) 2-Chloroethyl vinyl ether	10.153	63	125727	84.891	ug/l	100
56) Bromoform	12.576	173	27455	18.894	ug/l	97
58) 4-Methyl-2-Pentanone	10.435	43	241460	85.654	ug/l	99
59) 2-Hexanone	11.188	43	168242	82.154	ug/l	100
61) Tetrachloroethene	11.094	164	34715	22.363	ug/l	87
62) Toluene	10.623	91	179455	21.006	ug/l	99
64) Chlorobenzene	11.882	112	108011	20.963	ug/l	96
65) 1,1,1,2-Tetrachloroethane	11.959	131	40694	21.778	ug/l	96
66) Ethyl Benzene	11.959	91	177225	19.715	ug/l	93
67) m/p-Xylenes	12.065	106	142605	42.287	ug/l	98
68) o-Xylene	12.394	106	66170	20.599	ug/l	93
69) Styrene	12.406	104	110527	20.360	ug/l	99
70) Isopropylbenzene	12.694	105	163324	20.249	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.935	83	52570	18.376	ug/l	99
72) 1,2,3-Trichloropropane	12.988	75	46562m	19.123	ug/l	
73) Bromobenzene	12.976	156	40951	20.551	ug/l	94
74) n-propylbenzene	13.029	91	202400	20.142	ug/l	98
75) 2-Chlorotoluene	13.117	91	125738	20.771	ug/l	100
76) 1,3,5-Trimethylbenzene	13.164	105	141887	20.616	ug/l	98
77) t-1,4-Dichloro-2-butene	12.729	75	16202	16.282	ug/l	96
78) 4-Chlorotoluene	13.217	91	125206	20.343	ug/l	98
79) tert-butylbenzene	13.435	119	114419	20.328	ug/l	97
80) 1,2,4-Trimethylbenzene	13.476	105	142245	20.764	ug/l	99
81) sec-Butylbenzene	13.611	105	164820	20.283	ug/l	98
82) p-Isopropyltoluene	13.723	119	135302	20.218	ug/l	99
83) 1,3-Dichlorobenzene	13.729	146	76742	20.650	ug/l	98
84) 1,4-Dichlorobenzene	13.806	146	73497	20.442	ug/l	98
85) n-Butylbenzene	14.053	91	112353	19.446	ug/l	100
86) Hexachloroethane	14.329	117	28739	20.003	ug/l	99
87) 1,2-Dichlorobenzene	14.100	146	71413	20.227	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.711	75	8499	16.274	ug/l	93
89) 1,2,4-Trichlorobenzene	15.829	180	31236	18.674	ug/l	98
90) Hexachlorobutadiene	15.494	225	16924	20.298	ug/l	95
91) Naphthalene	15.635	128	81355	15.138	ug/l	99
92) 1,2,3-Trichlorobenzene	15.829	180	31236	18.674	ug/l	98

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

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