

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN030823\
 Data File : VN076884.D
 Acq On : 08 Mar 2023 18:23
 Operator : JC\MD
 Sample : VSTDICC010
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC010

Manual Integrations
 APPROVED

Reviewed By : John Carlone 03/09/2023
 Supervised By : Mahesh Dadoda 03/09/2023

Quant Time: Mar 09 03:47:26 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N030823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Mar 09 03:46:27 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.825	128	46485	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.107	114	322391	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.866	117	354659	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.589	65	127657	29.789	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.300%		
60) 4-Bromofluorobenzene	12.854	95	198837	31.399	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	104.667%		
63) Toluene-d8	10.572	98	382610	30.787	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	102.633%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.143	85	66710	12.906	ug/l	98
3) Chloromethane	2.378	50	61668	10.366	ug/l	99
4) Vinyl Chloride	2.531	62	56201	9.090	ug/l	91
5) Bromomethane	2.984	94	36639	8.544	ug/l	82
6) Chloroethane	3.137	64	32906	8.310	ug/l	89
7) Trichlorofluoromethane	3.519	101	101009	12.105	ug/l	97
8) Diethyl Ether	3.972	74	36540	11.148	ug/l	91
9) 1,1,2-Trichlorotrifluo...	4.395	101	57232	11.408	ug/l	96
10) 1,1-Dichloroethene	4.360	96	56072	11.856	ug/l	87
11) Methyl Iodide	4.607	142	63477	11.127	ug/l	98
12) Methyl Acetate	5.048	43	94461	10.206	ug/l	98
13) Acrolein	4.201	56	67792	58.578	ug/l	99
14) Acrylonitrile	5.731	53	153043	53.343	ug/l	97
15) Acetone	4.443	58	44206	49.245	ug/l	91
16) Carbon Disulfide	4.725	76	152093	11.503	ug/l	99
17) Allyl chloride	5.037	41	83658	10.252	ug/l	96
18) Methylene Chloride	5.295	84	66356	11.303	ug/l #	84
19) trans-1,2-Dichloroethene	5.807	96	60341	11.549	ug/l	92
20) Diisopropyl ether	6.684	45	182918	9.552	ug/l	97
21) 1,1-Dichloroethane	6.578	63	115488	11.296	ug/l	98
22) cis-1,2-Dichloroethene	7.495	96	68329	11.487	ug/l	97
23) tert-Butyl Alcohol	5.531	59	46047m	55.861	ug/l	
24) Methyl tert-Butyl Ether	5.813	73	177209	10.965	ug/l	93
25) Chloroform	7.972	83	117888	11.756	ug/l	99
26) Cyclohexane	8.266	56	102258	11.109	ug/l #	97
29) 1,1-Dichloropropene	8.383	75	85396	11.598	ug/l	99
30) 2-Butanone	7.495	43	204001	49.838	ug/l	97
31) 2,2-Dichloropropane	7.495	77	83578	10.899	ug/l #	94
32) 1,1,1-Trichloroethane	8.178	97	101251	11.791	ug/l	96
33) Carbon Tetrachloride	8.372	117	87710	11.752	ug/l	97
34) Benzene	8.613	78	268449	11.462	ug/l	99
35) Methacrylonitrile	7.789	41	42523	9.360	ug/l	87
36) 1,2-Dichloroethane	8.678	62	91099	11.615	ug/l	98
37) Trichloroethene	9.354	130	63990	11.629	ug/l	99
38) Methylcyclohexane	9.607	83	103464	11.081	ug/l	98
39) 1,2-Dichloropropane	9.625	63	67335	11.098	ug/l	98
40) Dibromomethane	9.713	93	42995	11.122	ug/l	92
41) Bromodichloromethane	9.889	83	85721	11.018	ug/l #	96
42) Vinyl Acetate	6.619	43	590386	48.788	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.572	43	81493	10.328	ug/l	99
44) Isopropyl Acetate	8.695	43	125690	9.623	ug/l	92
45) 1,4-Dioxane	9.701	88	22813	207.911	ug/l	96
46) Methyl methacrylate	9.683	41	60090	9.979	ug/l	89
47) n-amyl Acetate	12.495	43	97931m	8.668	ug/l	
48) t-1,3-Dichloropropene	10.842	75	82992	10.569	ug/l	96
49) cis-1,3-Dichloropropene	10.319	75	95700	10.623	ug/l #	84
50) 1,1,2-Trichloroethane	11.019	97	62311	11.081	ug/l	95
51) Ethyl methacrylate	10.877	69	88596	10.838	ug/l	81
52) 1,3-Dichloropropane	11.166	76	108243	11.193	ug/l	100
53) Dibromochloromethane	11.360	129	62833	10.967	ug/l	97
54) 1,2-Dibromoethane	11.471	107	59861	11.001	ug/l	98
55) 2-Chloroethyl vinyl ether	10.166	63	128069	36.703	ug/l	98
56) Bromoform	12.583	173	41501	10.607	ug/l	98
58) 4-Methyl-2-Pentanone	10.448	43	408440m	49.973	ug/l	
59) 2-Hexanone	11.195	43	289720	48.106	ug/l #	92
61) Tetrachloroethene	11.107	164	62053	13.205	ug/l	89
62) Toluene	10.636	91	272541	11.033	ug/l	99
64) Chlorobenzene	11.895	112	160868	11.045	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.960	131	61276	11.399	ug/l	97
66) Ethyl Benzene	11.966	91	291108	11.050	ug/l	96
67) m/p-Xylenes	12.071	106	223019	21.900	ug/l	93
68) o-Xylene	12.401	106	108927	10.870	ug/l	97
69) Styrene	12.413	104	171045	10.620	ug/l	97
70) Isopropylbenzene	12.701	105	279024	10.879	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.942	83	88643	10.761	ug/l	97
72) 1,2,3-Trichloropropane	12.995	75	81996m	11.077	ug/l	
73) Bromobenzene	12.983	156	63849	10.844	ug/l	92
74) n-propylbenzene	13.036	91	329844	10.769	ug/l	100
75) 2-Chlorotoluene	13.130	91	207386	11.301	ug/l	96
76) 1,3,5-Trimethylbenzene	13.177	105	245656	11.394	ug/l	94
77) t-1,4-Dichloro-2-butene	12.742	75	21950	9.405	ug/l	88
78) 4-Chlorotoluene	13.224	91	199708	11.362	ug/l	95
79) tert-butylbenzene	13.442	119	202004	10.745	ug/l	94
80) 1,2,4-Trimethylbenzene	13.483	105	234812	11.033	ug/l	97
81) sec-Butylbenzene	13.618	105	283550	10.471	ug/l	100
82) p-Isopropyltoluene	13.730	119	231341	10.551	ug/l	98
83) 1,3-Dichlorobenzene	13.736	146	116020	10.373	ug/l	97
84) 1,4-Dichlorobenzene	13.812	146	111395	10.159	ug/l	96
85) n-Butylbenzene	14.060	91	186667	10.003	ug/l	98
86) Hexachloroethane	14.336	117	41521	9.922	ug/l	93
87) 1,2-Dichlorobenzene	14.107	146	115866	10.356	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.724	75	15957	10.237	ug/l	94
89) 1,2,4-Trichlorobenzene	15.395	180	59433	10.284	ug/l	96
90) Hexachlorobutadiene	15.501	225	31520	11.169	ug/l	97
91) Naphthalene	15.642	128	181848	9.814	ug/l	99
92) 1,2,3-Trichlorobenzene	15.848	180	57796	9.835	ug/l	98

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

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