

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020924\
 Data File : VN080980.D
 Acq On : 09 Feb 2024 10:23
 Operator : JC\MD
 Sample : VSTDICC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/12/2024
 Supervised By : Mahesh Dadoda 02/12/2024

Quant Time: Feb 10 01:37:16 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N020924W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Feb 10 01:30:36 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.818	128	93172	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	535043	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	491393	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	198108	28.297	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	94.333%		
60) 4-Bromofluorobenzene	12.853	95	225124	29.967	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	99.900%		
63) Toluene-d8	10.571	98	653038	29.613	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	98.700%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	320458	50.584	ug/l	98
3) Chloromethane	2.359	50	292553	45.952	ug/l	95
4) Vinyl Chloride	2.512	62	356493	46.965	ug/l	94
5) Bromomethane	2.953	94	235132	46.118	ug/l	96
6) Chloroethane	3.118	64	226875	45.851	ug/l	96
7) Trichlorofluoromethane	3.495	101	472304	47.252	ug/l	94
8) Diethyl Ether	3.959	74	164148	46.724	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.371	101	252221	46.517	ug/l	95
10) 1,1-Dichloroethene	4.342	96	257532	48.436	ug/l	95
11) Methyl Iodide	4.589	142	279372	49.061	ug/l	92
12) Methyl Acetate	5.024	43	218668	45.555	ug/l	92
13) Acrolein	4.177	56	239865	228.286	ug/l	98
14) Acrylonitrile	5.724	53	571933	238.803	ug/l	99
15) Acetone	4.430	58	133448	242.459	ug/l	98
16) Carbon Disulfide	4.718	76	673144	46.131	ug/l	97
17) Allyl chloride	5.024	41	326454	48.888	ug/l	92
18) Methylene Chloride	5.277	84	278039	45.726	ug/l	97
19) trans-1,2-Dichloroethene	5.789	96	284298	47.101	ug/l	88
20) Diisopropyl ether	6.671	45	774078	48.230	ug/l	97
21) 1,1-Dichloroethane	6.571	63	482778	46.938	ug/l	97
22) cis-1,2-Dichloroethene	7.483	96	336329	47.955	ug/l	95
23) tert-Butyl Alcohol	5.512	59	202352	232.167	ug/l #	100
24) Methyl tert-Butyl Ether	5.794	73	855761	48.550	ug/l	98
25) Chloroform	7.971	83	535142	46.897	ug/l	95
26) Cyclohexane	8.259	56	371119	47.917	ug/l #	90
29) 1,1-Dichloropropene	8.371	75	381801	47.906	ug/l	99
30) 2-Butanone	7.483	43	692728	236.903	ug/l	97
31) 2,2-Dichloropropane	7.488	77	444310	48.964	ug/l	99
32) 1,1,1-Trichloroethane	8.171	97	484170	48.292	ug/l	98
33) Carbon Tetrachloride	8.365	117	410006	48.537	ug/l	96
34) Benzene	8.606	78	1163075	47.755	ug/l	99
35) Methacrylonitrile	7.777	41	166941	48.573	ug/l	96
36) 1,2-Dichloroethane	8.671	62	386735	47.315	ug/l	99
37) Trichloroethene	9.353	130	307788	47.533	ug/l	99
38) Methylcyclohexane	9.606	83	378546	47.594	ug/l	94
39) 1,2-Dichloropropane	9.624	63	272264	47.130	ug/l	96
40) Dibromomethane	9.712	93	214423	48.787	ug/l	96
41) Bromodichloromethane	9.888	83	412982	48.012	ug/l	99
42) Vinyl Acetate	6.606	43	3098546	246.625	ug/l	97

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	308600	49.553	ug/l	98
44) Isopropyl Acetate	8.688	43	524578	47.936	ug/l	97
45) 1,4-Dioxane	9.700	88	95667	927.040	ug/l	90
46) Methyl methacrylate	9.682	41	243000	48.530	ug/l	91
47) n-amyl Acetate	12.494	43	467318	48.966	ug/l	93
48) t-1,3-Dichloropropene	10.835	75	443162	49.159	ug/l	93
49) cis-1,3-Dichloropropene	10.318	75	484699	49.619	ug/l	94
50) 1,1,2-Trichloroethane	11.018	97	292730	48.136	ug/l	98
51) Ethyl methacrylate	10.876	69	419190	49.320	ug/l	91
52) 1,3-Dichloropropane	11.165	76	482978	48.094	ug/l	100
53) Dibromochloromethane	11.365	129	322374	48.636	ug/l	99
54) 1,2-Dibromoethane	11.471	107	302520	48.084	ug/l	98
55) 2-Chloroethyl vinyl ether	10.159	63	1113420	255.628	ug/l	98
56) Bromoform	12.582	173	213766	50.639	ug/l #	96
58) 4-Methyl-2-Pentanone	10.447	43	1535601	240.703	ug/l	95
59) 2-Hexanone	11.200	43	1156351	246.440	ug/l	95
61) Tetrachloroethene	11.106	164	267939	47.734	ug/l	93
62) Toluene	10.629	91	1273960	47.328	ug/l	99
64) Chlorobenzene	11.894	112	789790	47.906	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.965	131	299763	49.018	ug/l	98
66) Ethyl Benzene	11.965	91	1363295	48.169	ug/l	98
67) m/p-Xylenes	12.070	106	1077144	96.911	ug/l	93
68) o-Xylene	12.400	106	525843	48.276	ug/l	93
69) Styrene	12.412	104	876691	48.889	ug/l	96
70) Isopropylbenzene	12.700	105	1269236	47.814	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.941	83	392294	47.926	ug/l	100
72) 1,2,3-Trichloropropane	12.994	75	347574m	55.579	ug/l	
73) Bromobenzene	12.982	156	323554	49.014	ug/l	89
74) n-propylbenzene	13.035	91	1455464	48.245	ug/l	97
75) 2-Chlorotoluene	13.129	91	891973	47.628	ug/l	93
76) 1,3,5-Trimethylbenzene	13.176	105	1060334	48.819	ug/l	99
77) t-1,4-Dichloro-2-butene	12.741	75	121900	50.716	ug/l	96
78) 4-Chlorotoluene	13.223	91	896679	47.804	ug/l	93
79) tert-butylbenzene	13.441	119	873516	48.448	ug/l	96
80) 1,2,4-Trimethylbenzene	13.482	105	1060722	49.015	ug/l	98
81) sec-Butylbenzene	13.617	105	1211519	47.984	ug/l	98
82) p-Isopropyltoluene	13.729	119	1027041	48.453	ug/l	97
83) 1,3-Dichlorobenzene	13.735	146	572208	48.195	ug/l	97
84) 1,4-Dichlorobenzene	13.812	146	580107	48.677	ug/l	97
85) n-Butylbenzene	14.059	91	845754	48.358	ug/l	98
86) Hexachloroethane	14.335	117	160766	48.084	ug/l	90
87) 1,2-Dichlorobenzene	14.106	146	556760	48.166	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.723	75	74762	50.603	ug/l	94
89) 1,2,4-Trichlorobenzene	15.841	180	282311	49.923	ug/l	98
90) Hexachlorobutadiene	15.506	225	117704	47.442	ug/l	99
91) Naphthalene	15.641	128	1019470	50.773	ug/l	100
92) 1,2,3-Trichlorobenzene	15.841	180	282311	49.923	ug/l	98

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

