

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051223\
 Data File : VN077672.D
 Acq On : 12 May 2023 14:56
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 05/15/2023
 Supervised By : Mahesh Dadoda 05/15/2023

Quant Time: May 15 01:37:43 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N050823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue May 09 05:58:09 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.818	128	109905	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	613040	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	568297	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	219490	27.770	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	92.567%		
60) 4-Bromofluorobenzene	12.853	95	255656	28.292	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	94.300%		
63) Toluene-d8	10.571	98	764499	29.126	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	97.100%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	126079	17.472	ug/l	97
3) Chloromethane	2.360	50	98815	18.019	ug/l	98
4) Vinyl Chloride	2.512	62	137455	16.290	ug/l	94
5) Bromomethane	2.959	94	99488	17.688	ug/l	96
6) Chloroethane	3.130	64	75101	13.623	ug/l	94
7) Trichlorofluoromethane	3.512	101	207545	18.085	ug/l	96
8) Diethyl Ether	3.959	74	70429	19.472	ug/l	95
9) 1,1,2-Trichlorotrifluo...	4.377	101	113967	18.398	ug/l	87
10) 1,1-Dichloroethene	4.348	96	106236	18.143	ug/l	92
11) Methyl Iodide	4.601	142	168351	18.485	ug/l	91
12) Methyl Acetate	5.024	43	162747	22.992	ug/l #	84
13) Acrolein	4.177	56	92197	106.333	ug/l	98
14) Acrylonitrile	5.718	53	230150	106.888	ug/l	99
15) Acetone	4.424	58	66141	101.211	ug/l	98
16) Carbon Disulfide	4.718	76	236829	16.837	ug/l	98
17) Allyl chloride	5.030	41	111113	18.280	ug/l	95
18) Methylene Chloride	5.283	84	125755	17.670	ug/l	94
19) trans-1,2-Dichloroethene	5.789	96	120913	18.355	ug/l	94
20) Diisopropyl ether	6.671	45	282317	19.097	ug/l #	90
21) 1,1-Dichloroethane	6.577	63	197673	18.229	ug/l	98
22) cis-1,2-Dichloroethene	7.489	96	139796	17.611	ug/l	92
23) tert-Butyl Alcohol	5.512	59	93784	111.185	ug/l #	100
24) Methyl tert-Butyl Ether	5.800	73	357663	18.045	ug/l	98
25) Chloroform	7.971	83	233124	18.036	ug/l	96
26) Cyclohexane	8.265	56	153353	17.227	ug/l #	95
29) 1,1-Dichloropropene	8.377	75	160307	18.164	ug/l	96
30) 2-Butanone	7.483	43	289434	123.039	ug/l	94
31) 2,2-Dichloropropane	7.494	77	172378	16.765	ug/l	100
32) 1,1,1-Trichloroethane	8.177	97	206254	18.058	ug/l	97
33) Carbon Tetrachloride	8.365	117	184058	19.056	ug/l	96
34) Benzene	8.606	78	500877	18.796	ug/l	98
35) Methacrylonitrile	7.783	41	63223	23.678	ug/l	95
36) 1,2-Dichloroethane	8.671	62	168379	18.953	ug/l	98
37) Trichloroethene	9.353	130	143910	20.891	ug/l	90
38) Methylcyclohexane	9.606	83	198697	17.486	ug/l	97
39) 1,2-Dichloropropane	9.624	63	114797	18.607	ug/l	92
40) Dibromomethane	9.712	93	90347	18.575	ug/l	82
41) Bromodichloromethane	9.888	83	174726	17.840	ug/l	100
42) Vinyl Acetate	6.606	43	768177	88.033	ug/l	95

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
43) Ethyl Acetate	7.559	43	117374	23.217	ug/l	#	92
44) Isopropyl Acetate	8.688	43	199221	21.522	ug/l		94
45) 1,4-Dioxane	9.694	88	54530	473.912	ug/l	#	96
46) Methyl methacrylate	9.683	41	91271	21.955	ug/l		85
47) n-amyl Acetate	12.500	43	157496	19.756	ug/l		95
48) t-1,3-Dichloropropene	10.841	75	165635	16.775	ug/l		95
49) cis-1,3-Dichloropropene	10.318	75	187117	17.289	ug/l		98
50) 1,1,2-Trichloroethane	11.024	97	135023	19.276	ug/l		90
51) Ethyl methacrylate	10.877	69	176244	19.491	ug/l		95
52) 1,3-Dichloropropane	11.165	76	209972	18.540	ug/l		99
53) Dibromochloromethane	11.365	129	143042	19.628	ug/l		98
54) 1,2-Dibromoethane	11.477	107	136566	19.627	ug/l		98
55) 2-Chloroethyl vinyl ether	10.165	63	428981	104.912	ug/l		97
56) Bromoform	12.582	173	99495	23.202	ug/l	#	97
58) 4-Methyl-2-Pentanone	10.447	43	614269	117.374	ug/l		96
59) 2-Hexanone	11.200	43	441156	116.776	ug/l		96
61) Tetrachloroethene	11.112	164	120184	21.864	ug/l		96
62) Toluene	10.635	91	583368	18.541	ug/l		100
64) Chlorobenzene	11.894	112	372528	19.252	ug/l		98
65) 1,1,1,2-Tetrachloroethane	11.965	131	137712	19.728	ug/l		96
66) Ethyl Benzene	11.971	91	633451	18.170	ug/l		99
67) m/p-Xylenes	12.077	106	512420	37.359	ug/l		93
68) o-Xylene	12.406	106	254050	18.795	ug/l		91
69) Styrene	12.418	104	398926	18.457	ug/l		97
70) Isopropylbenzene	12.700	105	640817	18.252	ug/l		97
71) 1,1,2,2-Tetrachloroethane	12.941	83	182717	19.407	ug/l		98
72) 1,2,3-Trichloropropane	13.000	75	152341m	19.446	ug/l		
73) Bromobenzene	12.988	156	159795	21.766	ug/l		77
74) n-propylbenzene	13.041	91	705646	17.975	ug/l		96
75) 2-Chlorotoluene	13.129	91	428756	18.059	ug/l		93
76) 1,3,5-Trimethylbenzene	13.176	105	481399	17.350	ug/l		94
77) t-1,4-Dichloro-2-butene	12.741	75	44480	16.298	ug/l		91
78) 4-Chlorotoluene	13.229	91	420801	18.152	ug/l		95
79) tert-butylbenzene	13.447	119	487433	19.615	ug/l		91
80) 1,2,4-Trimethylbenzene	13.488	105	438259	16.275	ug/l		96
81) sec-Butylbenzene	13.623	105	656984	18.836	ug/l		96
82) p-Isopropyltoluene	13.735	119	519299	18.712	ug/l		96
83) 1,3-Dichlorobenzene	13.741	146	274134	20.109	ug/l		96
84) 1,4-Dichlorobenzene	13.818	146	268692	20.133	ug/l		96
85) n-Butylbenzene	14.065	91	361240	15.822	ug/l		97
86) Hexachloroethane	14.341	117	91876	17.764	ug/l		68
87) 1,2-Dichlorobenzene	14.112	146	269621	20.375	ug/l		95
88) 1,2-Dibromo-3-Chloropr...	14.729	75	31479	18.398	ug/l	#	74
89) 1,2,4-Trichlorobenzene	15.400	180	67003	14.696	ug/l		95
90) Hexachlorobutadiene	15.512	225	70886	27.573	ug/l		94
91) Naphthalene	15.647	128	185725	11.925	ug/l		98
92) 1,2,3-Trichlorobenzene	15.853	180	61175	14.570	ug/l		93

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

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