

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021523\
 Data File : VN076677.D
 Acq On : 15 Feb 2023 10:48
 Operator : JC\MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/16/2023
 Supervised By : Mahesh Dadoda 02/18/2023

Quant Time: Feb 15 11:37:51 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N021523W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Feb 15 11:37:14 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.819	128	34236	30.000	ug/l	-0.01
28) 1,4-Difluorobenzene	9.107	114	234791	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.866	117	257916	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	94357	23.384	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	77.933%	#	
60) 4-Bromofluorobenzene	12.854	95	139435	23.947	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	79.833%		
63) Toluene-d8	10.566	98	276688	29.217	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	97.400%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.137	85	75509	15.935	ug/l	95
3) Chloromethane	2.378	50	90489	15.882	ug/l	99
4) Vinyl Chloride	2.531	62	95601	19.217	ug/l	94
5) Bromomethane	2.966	94	61302	24.544	ug/l	100
6) Chloroethane	3.131	64	62401	21.774	ug/l	95
7) Trichlorofluoromethane	3.513	101	118970	14.083	ug/l	93
8) Diethyl Ether	3.972	74	45575	17.010	ug/l	87
9) 1,1,2-Trichlorotrifluo...	4.390	101	70685	17.382	ug/l	99
10) 1,1-Dichloroethene	4.354	96	65828	17.226	ug/l	88
11) Methyl Iodide	4.601	142	89819	16.178	ug/l	86
12) Methyl Acetate	5.043	43	137510	17.148	ug/l	100
13) Acrolein	4.196	56	76174	74.162	ug/l	98
14) Acrylonitrile	5.731	53	214018	91.095	ug/l	98
15) Acetone	4.443	58	75741	111.654	ug/l	85
16) Carbon Disulfide	4.725	76	185255	17.640	ug/l	98
17) Allyl chloride	5.037	41	116072	15.756	ug/l	91
18) Methylene Chloride	5.284	84	84210	18.623	ug/l #	88
19) trans-1,2-Dichloroethene	5.801	96	70301	17.908	ug/l	97
20) Diisopropyl ether	6.678	45	287948	17.123	ug/l	90
21) 1,1-Dichloroethane	6.578	63	148755	16.222	ug/l	98
22) cis-1,2-Dichloroethene	7.489	96	87106	18.518	ug/l	98
23) tert-Butyl Alcohol	5.543	59	63815m	80.945	ug/l	
24) Methyl tert-Butyl Ether	5.807	73	233779	16.987	ug/l	94
25) Chloroform	7.972	83	149736	16.502	ug/l	97
26) Cyclohexane	8.266	56	138422	17.011	ug/l #	96
29) 1,1-Dichloropropene	8.378	75	107654	17.714	ug/l	98
30) 2-Butanone	7.489	43	330670	100.800	ug/l	98
31) 2,2-Dichloropropane	7.495	77	112390	17.811	ug/l #	71
32) 1,1,1-Trichloroethane	8.172	97	122192	16.205	ug/l	96
33) Carbon Tetrachloride	8.366	117	108116	16.621	ug/l	96
34) Benzene	8.613	78	348278	18.651	ug/l #	88
35) Methacrylonitrile	7.784	41	67561	17.912	ug/l	92
36) 1,2-Dichloroethane	8.672	62	119020	16.621	ug/l	100
37) Trichloroethene	9.354	130	77187	20.189	ug/l	96
38) Methylcyclohexane	9.601	83	137421	20.429	ug/l	99
39) 1,2-Dichloropropane	9.625	63	88101	19.770	ug/l	95
40) Dibromomethane	9.713	93	57739	19.695	ug/l	94
41) Bromodichloromethane	9.889	83	115665	18.764	ug/l #	99
42) Vinyl Acetate	6.613	43	906192	84.926	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.566	43	121478m	18.160	ug/l	
44) Isopropyl Acetate	8.695	43	203638	18.507	ug/l	100
45) 1,4-Dioxane	9.695	88	32813	365.825	ug/l	99
46) Methyl methacrylate	9.683	41	91817	17.307	ug/l	92
47) n-amyl Acetate	12.495	43	176699	18.893	ug/l	96
48) t-1,3-Dichloropropene	10.836	75	116750	18.815	ug/l	99
49) cis-1,3-Dichloropropene	10.313	75	131901	19.230	ug/l #	89
50) 1,1,2-Trichloroethane	11.019	97	84275	21.167	ug/l	94
51) Ethyl methacrylate	10.872	69	122575	19.389	ug/l	92
52) 1,3-Dichloropropane	11.166	76	144829	19.514	ug/l	99
53) Dibromochloromethane	11.360	129	84866	20.513	ug/l	97
54) 1,2-Dibromoethane	11.472	107	81466	20.221	ug/l	98
55) 2-Chloroethyl vinyl ether	10.166	63	259831	89.979	ug/l	97
56) Bromoform	12.577	173	57265	21.492	ug/l	98
58) 4-Methyl-2-Pentanone	10.448	43	651939	90.422	ug/l	96
59) 2-Hexanone	11.195	43	490159	93.502	ug/l	95
61) Tetrachloroethene	11.101	164	63213	19.174	ug/l	92
62) Toluene	10.630	91	371565	19.431	ug/l	99
64) Chlorobenzene	11.895	112	216483	19.543	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.966	131	79133	18.843	ug/l	96
66) Ethyl Benzene	11.966	91	394019	18.796	ug/l	100
67) m/p-Xylenes	12.071	106	315646	40.131	ug/l	94
68) o-Xylene	12.401	106	153091	19.757	ug/l	98
69) Styrene	12.413	104	246613	20.050	ug/l	100
70) Isopropylbenzene	12.695	105	397914	19.162	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.936	83	128257	17.716	ug/l	96
72) 1,2,3-Trichloropropane	12.995	75	117346m	17.746	ug/l	
73) Bromobenzene	12.983	156	92261	18.724	ug/l	85
74) n-propylbenzene	13.036	91	471121	17.689	ug/l	99
75) 2-Chlorotoluene	13.124	91	279097	16.659	ug/l	100
76) 1,3,5-Trimethylbenzene	13.177	105	329096	16.971	ug/l	96
77) t-1,4-Dichloro-2-butene	12.742	75	35430	17.764	ug/l	88
78) 4-Chlorotoluene	13.224	91	267897	15.903	ug/l	98
79) tert-butylbenzene	13.442	119	294080	17.867	ug/l	98
80) 1,2,4-Trimethylbenzene	13.483	105	330215	17.268	ug/l	100
81) sec-Butylbenzene	13.618	105	427464	18.548	ug/l	99
82) p-Isopropyltoluene	13.730	119	344045	18.579	ug/l	99
83) 1,3-Dichlorobenzene	13.736	146	169719	18.622	ug/l	98
84) 1,4-Dichlorobenzene	13.813	146	168852	18.570	ug/l	98
85) n-Butylbenzene	14.060	91	281829	16.389	ug/l	98
86) Hexachloroethane	14.336	117	64697	17.993	ug/l	93
87) 1,2-Dichlorobenzene	14.107	146	170355	17.028	ug/l	96
88) 1,2-Dibromo-3-Chloropr...	14.724	75	24781	16.793	ug/l	93
89) 1,2,4-Trichlorobenzene	15.395	180	83422	19.993	ug/l	97
90) Hexachlorobutadiene	15.501	225	40039	19.864	ug/l	95
91) Naphthalene	15.642	128	276161	19.399	ug/l	99
92) 1,2,3-Trichlorobenzene	15.848	180	84197	20.218	ug/l	97

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

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