

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041423\
 Data File : VN077348.D
 Acq On : 14 Apr 2023 16:22
 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

Quant Time: Apr 17 05:10:08 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N040723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Apr 07 13:04:49 2023
 Response via : Initial Calibration

04/17/2023
 Supervised By :Mahesh
 Dadoda

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

Internal Standards						
1) Bromochloromethane	7.825	128	51592	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.107	114	394453	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.872	117	436310	30.000	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.589	65	132606	30.306	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	101.033%
60) 4-Bromofluorobenzene	12.854	95	223059	29.566	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	98.567%
63) Toluene-d8	10.572	98	452806	29.521	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	98.400%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.137	85	93092	18.980	ug/l	97
3) Chloromethane	2.372	50	114162	17.520	ug/l	97
4) Vinyl Chloride	2.519	62	165122	17.692	ug/l	99
5) Bromomethane	2.960	94	113160	16.090	ug/l	98
6) Chloroethane	3.131	64	110561	17.673	ug/l	98
7) Trichlorofluoromethane	3.501	101	254043	29.233	ug/l	96
8) Diethyl Ether	3.966	74	64762	17.484	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.378	101	101373	18.654	ug/l	98
10) 1,1-Dichloroethene	4.348	96	96746	17.796	ug/l	93
11) Methyl Iodide	4.596	142	114336	18.616	ug/l	98
12) Methyl Acetate	5.037	43	151430	18.696	ug/l	99
13) Acrolein	4.190	56	69386	69.016	ug/l	95
14) Acrylonitrile	5.737	53	252530	91.213	ug/l	100
15) Acetone	4.443	58	69514	69.210	ug/l	91
16) Carbon Disulfide	4.725	76	239468	16.689	ug/l #	92
17) Allyl chloride	5.031	41	107109	15.305	ug/l	100
18) Methylene Chloride	5.290	84	114290	18.104	ug/l	95
19) trans-1,2-Dichloroethene	5.795	96	109195	18.473	ug/l	84
20) Diisopropyl ether	6.684	45	283221	16.980	ug/l	99
21) 1,1-Dichloroethane	6.578	63	188502	17.830	ug/l #	95
22) cis-1,2-Dichloroethene	7.501	96	132347	18.366	ug/l	96
23) tert-Butyl Alcohol	5.543	59	113976	92.585	ug/l #	100
24) Methyl tert-Butyl Ether	5.807	73	355099	18.144	ug/l	99
25) Chloroform	7.972	83	211700	18.477	ug/l	98
26) Cyclohexane	8.260	56	153948	16.758	ug/l #	96
29) 1,1-Dichloropropene	8.378	75	149567	17.504	ug/l	97
30) 2-Butanone	7.489	43	327521	81.053	ug/l	97
31) 2,2-Dichloropropane	7.495	77	158927	15.151	ug/l	100
32) 1,1,1-Trichloroethane	8.172	97	190493	18.115	ug/l	99
33) Carbon Tetrachloride	8.366	117	163014	18.163	ug/l	94
34) Benzene	8.613	78	472475	17.870	ug/l	98
35) Methacrylonitrile	7.789	41	66327	17.425	ug/l	93
36) 1,2-Dichloroethane	8.678	62	152868	18.442	ug/l	99
37) Trichloroethene	9.354	130	119289	18.446	ug/l	93
38) Methylcyclohexane	9.601	83	198954	17.167	ug/l	98
39) 1,2-Dichloropropane	9.625	63	117595	17.917	ug/l	97
40) Dibromomethane	9.713	93	88884	18.795	ug/l	99
41) Bromodichloromethane	9.895	83	171430	18.180	ug/l	95
42) Vinyl Acetate	6.613	43	1118034m	95.601	ug/l	

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43) Ethyl Acetate	7.572	43	126107	16.868	ug/l	98
44) Isopropyl Acetate	8.695	43	234353	17.508	ug/l #	100
45) 1,4-Dioxane	9.701	88	55300	391.729	ug/l	96
46) Methyl methacrylate	9.689	41	99687	17.298	ug/l	92
47) n-amyl Acetate	12.501	43	203048	17.358	ug/l	98
48) t-1,3-Dichloropropene	10.836	75	183679	17.405	ug/l	97
49) cis-1,3-Dichloropropene	10.319	75	185855	16.554	ug/l	98
50) 1,1,2-Trichloroethane	11.019	97	125999	18.343	ug/l	99
51) Ethyl methacrylate	10.877	69	190133	18.024	ug/l	95
52) 1,3-Dichloropropane	11.172	76	210850	18.392	ug/l	98
53) Dibromochloromethane	11.366	129	133808	18.483	ug/l	99
54) 1,2-Dibromoethane	11.472	107	127771	18.529	ug/l	99
55) 2-Chloroethyl vinyl ether	10.166	63	437483	134.328	ug/l	98
56) Bromoform	12.583	173	89514	18.406	ug/l	100
58) 4-Methyl-2-Pentanone	10.448	43	743031	90.955	ug/l	100
59) 2-Hexanone	11.201	43	538325	85.252	ug/l	99
61) Tetrachloroethene	11.107	164	97482	18.784	ug/l	97
62) Toluene	10.636	91	544949	17.901	ug/l	99
64) Chlorobenzene	11.895	112	335984	18.166	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.966	131	124020	18.235	ug/l	98
66) Ethyl Benzene	11.972	91	606028	17.969	ug/l	98
67) m/p-Xylenes	12.077	106	474850	35.920	ug/l	98
68) o-Xylene	12.401	106	233970	17.691	ug/l	98
69) Styrene	12.413	104	374765	17.687	ug/l	99
70) Isopropylbenzene	12.701	105	611450	18.218	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.942	83	184603	17.960	ug/l	97
72) 1,2,3-Trichloropropane	13.001	75	165018m	23.619	ug/l	
73) Bromobenzene	12.989	156	125243	18.367	ug/l	96
74) n-propylbenzene	13.042	91	677667	18.249	ug/l	99
75) 2-Chlorotoluene	13.130	91	399794	17.971	ug/l	100
76) 1,3,5-Trimethylbenzene	13.177	105	487345	17.840	ug/l	97
77) t-1,4-Dichloro-2-butene	12.736	75	56899	15.989	ug/l	98
78) 4-Chlorotoluene	13.230	91	377722	17.969	ug/l	99
79) tert-butylbenzene	13.448	119	445593	18.742	ug/l	97
80) 1,2,4-Trimethylbenzene	13.489	105	480008	18.026	ug/l	99
81) sec-Butylbenzene	13.624	105	622511	18.334	ug/l	99
82) p-Isopropyltoluene	13.736	119	503996	18.527	ug/l	99
83) 1,3-Dichlorobenzene	13.742	146	232742	18.001	ug/l	99
84) 1,4-Dichlorobenzene	13.818	146	224336	17.884	ug/l	99
85) n-Butylbenzene	14.060	91	405557	18.042	ug/l	99
86) Hexachloroethane	14.336	117	102033	17.633	ug/l	100
87) 1,2-Dichlorobenzene	14.113	146	234469	18.508	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.730	75	35096	17.819	ug/l	98
89) 1,2,4-Trichlorobenzene	15.371	180	80314	16.117	ug/l	99
90) Hexachlorobutadiene	15.471	225	47745	18.682	ug/l	96
91) Naphthalene	15.595	128	307341	16.144	ug/l	100
92) 1,2,3-Trichlorobenzene	15.759	180	78313	16.106	ug/l	99

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

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