

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041023\
 Data File : VN077284.D
 Acq On : 10 Apr 2023 09:48
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Quant Time: Apr 11 01:19:23 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

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

Internal Standards						
1) Bromochloromethane	7.819	128	65366	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.107	114	490483	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.866	117	531510	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	164650	29.700	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	99.000%
60) 4-Bromofluorobenzene	12.848	95	287073	31.236	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	104.133%
63) Toluene-d8	10.566	98	568408	30.420	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	101.400%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.137	85	123364	19.852	ug/l	97
3) Chloromethane	2.372	50	148003	17.927	ug/l	99
4) Vinyl Chloride	2.525	62	206903	17.497	ug/l	96
5) Bromomethane	2.949	94	147355	16.537	ug/l	93
6) Chloroethane	3.131	64	141335	17.832	ug/l	92
7) Trichlorofluoromethane	3.507	101	217811	19.782	ug/l	91
8) Diethyl Ether	3.966	74	94218	20.076	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.378	101	140075	20.344	ug/l	99
10) 1,1-Dichloroethene	4.343	96	135027	19.604	ug/l	91
11) Methyl Iodide	4.601	142	157024	20.179	ug/l	99
12) Methyl Acetate	5.031	43	184507	17.980	ug/l	95
13) Acrolein	4.184	56	124956	98.100	ug/l	99
14) Acrylonitrile	5.725	53	313586	89.399	ug/l	99
15) Acetone	4.431	58	112270	88.225	ug/l	96
16) Carbon Disulfide	4.719	76	346864	19.079	ug/l	97
17) Allyl chloride	5.031	41	164164	18.515	ug/l	96
18) Methylene Chloride	5.290	84	156434	19.558	ug/l	94
19) trans-1,2-Dichloroethene	5.790	96	146291	19.533	ug/l	96
20) Diisopropyl ether	6.678	45	402704	19.056	ug/l	97
21) 1,1-Dichloroethane	6.572	63	264562	19.752	ug/l	98
22) cis-1,2-Dichloroethene	7.489	96	179179	19.625	ug/l	98
23) tert-Butyl Alcohol	5.531	59	134569m	86.278	ug/l	
24) Methyl tert-Butyl Ether	5.801	73	478950	19.315	ug/l	99
25) Chloroform	7.966	83	272655	18.783	ug/l	98
26) Cyclohexane	8.260	56	226702	19.478	ug/l #	100
29) 1,1-Dichloropropene	8.372	75	211880	19.941	ug/l	99
30) 2-Butanone	7.484	43	435311	86.637	ug/l	98
31) 2,2-Dichloropropane	7.489	77	266096	20.401	ug/l #	77
32) 1,1,1-Trichloroethane	8.172	97	255321	19.526	ug/l	99
33) Carbon Tetrachloride	8.366	117	227897	20.420	ug/l	98
34) Benzene	8.613	78	650607	19.790	ug/l	96
35) Methacrylonitrile	7.778	41	88724	18.745	ug/l	89
36) 1,2-Dichloroethane	8.672	62	201973	19.595	ug/l	99
37) Trichloroethene	9.354	130	159070	19.781	ug/l	99
38) Methylcyclohexane	9.601	83	282874	19.630	ug/l	99
39) 1,2-Dichloropropane	9.625	63	160638	19.683	ug/l	97
40) Dibromomethane	9.707	93	115668	19.670	ug/l	99
41) Bromodichloromethane	9.889	83	234017	19.958	ug/l	98
42) Vinyl Acetate	6.607	43	1345423	92.520	ug/l #	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.566	43	168977	18.178	ug/l	94
44) Isopropyl Acetate	8.689	43	313276	18.822	ug/l #	100
45) 1,4-Dioxane	9.695	88	62268	354.729	ug/l	98
46) Methyl methacrylate	9.683	41	133895	18.685	ug/l	94
47) n-amyl Acetate	12.495	43	265493	18.253	ug/l	98
48) t-1,3-Dichloropropene	10.836	75	258809	19.722	ug/l	95
49) cis-1,3-Dichloropropene	10.313	75	282166	20.212	ug/l	98
50) 1,1,2-Trichloroethane	11.019	97	165028	19.321	ug/l	97
51) Ethyl methacrylate	10.877	69	257186	19.607	ug/l	98
52) 1,3-Dichloropropane	11.166	76	275013	19.292	ug/l	99
53) Dibromochloromethane	11.360	129	182798	20.306	ug/l	98
54) 1,2-Dibromoethane	11.472	107	166586	19.428	ug/l	97
55) 2-Chloroethyl vinyl ether	10.160	63	340449	84.068	ug/l	98
56) Bromoform	12.577	173	118317	19.566	ug/l #	98
58) 4-Methyl-2-Pentanone	10.448	43	896530	90.088	ug/l	99
59) 2-Hexanone	11.195	43	669347	87.015	ug/l	98
61) Tetrachloroethene	11.107	164	125216	19.807	ug/l	93
62) Toluene	10.630	91	744976	20.088	ug/l	99
64) Chlorobenzene	11.895	112	453555	20.131	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.960	131	171031	20.643	ug/l	98
66) Ethyl Benzene	11.966	91	828161	20.157	ug/l	99
67) m/p-Xylenes	12.071	106	655560	40.708	ug/l	99
68) o-Xylene	12.401	106	328607	20.397	ug/l	100
69) Styrene	12.413	104	522456	20.241	ug/l	100
70) Isopropylbenzene	12.701	105	825384	20.187	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.942	83	241744	19.307	ug/l	98
72) 1,2,3-Trichloropropane	12.995	75	198758m	23.353	ug/l	
73) Bromobenzene	12.983	156	167149	20.122	ug/l	97
74) n-propylbenzene	13.036	91	942542	20.835	ug/l	99
75) 2-Chlorotoluene	13.124	91	560226	20.672	ug/l	99
76) 1,3,5-Trimethylbenzene	13.177	105	683173	20.529	ug/l	98
77) t-1,4-Dichloro-2-butene	12.736	75	85663	19.760	ug/l	98
78) 4-Chlorotoluene	13.224	91	523475	20.442	ug/l	99
79) tert-butylbenzene	13.442	119	593202	20.482	ug/l	99
80) 1,2,4-Trimethylbenzene	13.483	105	659289	20.324	ug/l	99
81) sec-Butylbenzene	13.618	105	851618	20.589	ug/l	100
82) p-Isopropyltoluene	13.730	119	676717	20.421	ug/l	99
83) 1,3-Dichlorobenzene	13.736	146	321117	20.388	ug/l	99
84) 1,4-Dichlorobenzene	13.813	146	311330	20.374	ug/l	99
85) n-Butylbenzene	14.060	91	562474	20.540	ug/l	100
86) Hexachloroethane	14.336	117	142125	20.162	ug/l	99
87) 1,2-Dichlorobenzene	14.107	146	311905	20.211	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.724	75	43611	18.176	ug/l	97
89) 1,2,4-Trichlorobenzene	15.371	180	100998	16.638	ug/l	98
90) Hexachlorobutadiene	15.465	225	64757	20.800	ug/l	98
91) Naphthalene	15.589	128	346187	14.928	ug/l	100
92) 1,2,3-Trichlorobenzene	15.754	180	92327	15.587	ug/l	98

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

