

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042624\
 Data File : VN081896.D
 Acq On : 27 Apr 2024 01:34
 Operator : JC\MD
 Sample : VSTDICC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC050

Quant Time: May 14 11:14:59 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue May 14 11:13:26 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 04/29/2024
 Supervised By : Semsettin Yesilyurt 05/14/2024

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

Internal Standards						
1) Bromochloromethane	7.812	128	45256	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	264835	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	235844	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	111929	32.915	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 109.700%			
60) 4-Bromofluorobenzene	12.847	95	120187	33.334	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 111.100%			
63) Toluene-d8	10.565	98	333892	31.547	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 105.167%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	123306	40.071	ug/l	99
3) Chloromethane	2.359	50	142921	46.218	ug/l	99
4) Vinyl Chloride	2.518	62	132547	35.950	ug/l	99
5) Bromomethane	2.959	94	66552	26.874	ug/l	99
6) Chloroethane	3.124	64	74568	31.026	ug/l	96
7) Trichlorofluoromethane	3.501	101	199162	41.022	ug/l	97
8) Diethyl Ether	3.965	74	93639	54.874	ug/l	85
9) 1,1,2-Trichlorotrifluo...	4.377	101	127771	48.490	ug/l	73
10) 1,1-Dichloroethene	4.342	96	130729	50.620	ug/l	89
11) Methyl Iodide	4.589	142	121226	43.829	ug/l	86
12) Methyl Acetate	5.018	43	165748	70.825	ug/l #	84
13) Acrolein	4.177	56	181217	355.076	ug/l	99
14) Acrylonitrile	5.718	53	386151	332.283	ug/l	98
15) Acetone	4.424	58	87007	325.454	ug/l	91
16) Carbon Disulfide	4.712	76	351555	49.601	ug/l	98
17) Allyl chloride	5.018	41	225742	69.599	ug/l	86
18) Methylene Chloride	5.277	84	147177	49.868	ug/l	88
19) trans-1,2-Dichloroethene	5.783	96	130881	44.641	ug/l	95
20) Diisopropyl ether	6.671	45	517914	66.436	ug/l	96
21) 1,1-Dichloroethane	6.571	63	273185	54.681	ug/l	96
22) cis-1,2-Dichloroethene	7.489	96	169020	49.615	ug/l	95
23) tert-Butyl Alcohol	5.512	59	157303	371.568	ug/l #	100
24) Methyl tert-Butyl Ether	5.795	73	471587	55.082	ug/l #	84
25) Chloroform	7.965	83	261001	47.090	ug/l	96
26) Cyclohexane	8.259	56	233097	61.962	ug/l #	88
29) 1,1-Dichloropropene	8.371	75	190800	48.366	ug/l	97
30) 2-Butanone	7.483	43	491812	339.798	ug/l	96
31) 2,2-Dichloropropane	7.489	77	195115	43.441	ug/l	99
32) 1,1,1-Trichloroethane	8.171	97	220132	44.359	ug/l	95
33) Carbon Tetrachloride	8.359	117	177332	42.412	ug/l	93
34) Benzene	8.606	78	606265	50.291	ug/l	99
35) Methacrylonitrile	7.783	41	124382	73.114	ug/l	89
36) 1,2-Dichloroethane	8.671	62	202010	49.931	ug/l	97
37) Trichloroethene	9.353	130	139252	43.447	ug/l	95
38) Methylcyclohexane	9.600	83	227546	57.798	ug/l	96
39) 1,2-Dichloropropane	9.624	63	156331	54.672	ug/l	95
40) Dibromomethane	9.706	93	99648	45.805	ug/l	91
41) Bromodichloromethane	9.888	83	212335	49.872	ug/l #	99
42) Vinyl Acetate	6.600	43	2060321	332.791	ug/l	95

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	214560	71.173	ug/l	96
44) Isopropyl Acetate	8.688	43	376592	69.525	ug/l	90
45) 1,4-Dioxane	9.694	88	61457	1196.312	ug/l #	93
46) Methyl methacrylate	9.682	41	176687	71.289	ug/l	83
47) n-amyl Acetate	12.494	43	356601m	75.488	ug/l	
48) t-1,3-Dichloropropene	10.841	75	229600	51.454	ug/l	98
49) cis-1,3-Dichloropropene	10.312	75	244965m	50.664	ug/l	
50) 1,1,2-Trichloroethane	11.018	97	135150	44.898	ug/l	96
51) Ethyl methacrylate	10.871	69	258092	61.348	ug/l	74
52) 1,3-Dichloropropane	11.165	76	248538	50.000	ug/l	99
53) Dibromochloromethane	11.365	129	149258	45.494	ug/l	98
54) 1,2-Dibromoethane	11.471	107	136663	43.885	ug/l	99
55) 2-Chloroethyl vinyl ether	10.159	63	636084	295.038	ug/l	96
56) Bromoform	12.582	173	92425	44.233	ug/l	95
58) 4-Methyl-2-Pentanone	10.447	43	1098559	358.782	ug/l #	87
59) 2-Hexanone	11.194	43	821728	364.883	ug/l #	88
61) Tetrachloroethene	11.106	164	122484	45.465	ug/l	96
62) Toluene	10.630	91	621309	48.092	ug/l	99
64) Chlorobenzene	11.894	112	387114	48.924	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.965	131	127772	43.533	ug/l	97
66) Ethyl Benzene	11.965	91	696133	51.247	ug/l	98
67) m/p-Xylenes	12.071	106	516632	96.847	ug/l	99
68) o-Xylene	12.400	106	256194	49.006	ug/l	99
69) Styrene	12.412	104	434223	50.453	ug/l	100
70) Isopropylbenzene	12.694	105	664423	52.151	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.935	83	184574	46.982	ug/l	98
72) 1,2,3-Trichloropropane	12.994	75	172237m	56.006	ug/l	
73) Bromobenzene	12.982	156	137281	43.330	ug/l	81
74) n-propylbenzene	13.035	91	782502	54.043	ug/l	98
75) 2-Chlorotoluene	13.123	91	478011	53.180	ug/l	100
76) 1,3,5-Trimethylbenzene	13.171	105	537707	51.582	ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	78635	67.569	ug/l	93
78) 4-Chlorotoluene	13.223	91	471465	52.370	ug/l	99
79) tert-butylbenzene	13.441	119	454282	52.497	ug/l	98
80) 1,2,4-Trimethylbenzene	13.482	105	536187	51.624	ug/l	97
81) sec-Butylbenzene	13.618	105	642023	52.981	ug/l	100
82) p-Isopropyltoluene	13.729	119	515453	50.667	ug/l	96
83) 1,3-Dichlorobenzene	13.735	146	254544	44.670	ug/l	98
84) 1,4-Dichlorobenzene	13.812	146	254120	44.428	ug/l	99
85) n-Butylbenzene	14.059	91	477600	56.898	ug/l	97
86) Hexachloroethane	14.335	117	101634	63.336	ug/l	81
87) 1,2-Dichlorobenzene	14.106	146	254498	45.873	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.717	75	39550	55.776	ug/l	94
89) 1,2,4-Trichlorobenzene	15.841	180	141743	52.225	ug/l	98
90) Hexachlorobutadiene	15.500	225	50557	42.458	ug/l	99
91) Naphthalene	15.641	128	532948	55.302	ug/l	99
92) 1,2,3-Trichlorobenzene	15.841	180	141743	52.225	ug/l	98

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

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