

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN040723\
 Data File : VN077274.D
 Acq On : 07 Apr 2023 12:41
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC005

Quant Time: Apr 07 13:01:29 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N040723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Apr 07 12:52:43 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 04/10/2023
 Supervised By : Semsettin Yesilyurt 04/10/2023

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

Internal Standards						
1) Bromochloromethane	7.819	128	52363	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.107	114	406957	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.866	117	433612	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.584	65	137117	31.303	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 104.333%			
60) 4-Bromofluorobenzene	12.848	95	207556	27.605	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 92.000%			
63) Toluene-d8	10.566	98	462144	30.431	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.433%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.137	85	25967	5.160	ug/l	98
3) Chloromethane	2.372	50	37909	5.718	ug/l	98
4) Vinyl Chloride	2.525	62	52961	5.624	ug/l	96
5) Bromomethane	2.949	94	47265	7.029	ug/l	88
6) Chloroethane	3.125	64	33821	5.047	ug/l	94
7) Trichlorofluoromethane	3.502	101	51261	5.899	ug/l	93
8) Diethyl Ether	3.972	74	20617	5.532	ug/l	69
9) 1,1,2-Trichlorotrifluo...	4.366	101	29000	5.185	ug/l	71
10) 1,1-Dichloroethene	4.348	96	31101	5.637	ug/l #	72
11) Methyl Iodide	4.601	142	29705	4.715	ug/l	94
12) Methyl Acetate	5.037	43	43907	5.485	ug/l	97
13) Acrolein	4.190	56	32013	31.917	ug/l	97
14) Acrylonitrile	5.731	53	73076	26.281	ug/l	62
15) Acetone	4.443	58	25962m	25.362	ug/l	
16) Carbon Disulfide	4.719	76	83350	5.719	ug/l #	91
17) Allyl chloride	5.031	41	37158	5.249	ug/l	83
18) Methylene Chloride	5.278	84	35704	5.547	ug/l #	76
19) trans-1,2-Dichloroethene	5.795	96	31943	5.274	ug/l #	80
20) Diisopropyl ether	6.684	45	90753	5.397	ug/l #	92
21) 1,1-Dichloroethane	6.566	63	56673m	5.250	ug/l	
22) cis-1,2-Dichloroethene	7.489	96	39394	5.384	ug/l	86
23) tert-Butyl Alcohol	5.531	59	33473m	26.921	ug/l	
24) Methyl tert-Butyl Ether	5.807	73	103763	5.218	ug/l #	69
25) Chloroform	7.966	83	62689	5.428	ug/l	89
26) Cyclohexane	8.260	56	50372	5.412	ug/l #	78
29) 1,1-Dichloropropene	8.372	75	44281	4.969	ug/l	95
30) 2-Butanone	7.489	43	107693	25.763	ug/l #	88
31) 2,2-Dichloropropane	7.495	77	56251	5.129	ug/l #	87
32) 1,1,1-Trichloroethane	8.172	97	55275	5.042	ug/l	95
33) Carbon Tetrachloride	8.360	117	47217m	5.030	ug/l	
34) Benzene	8.607	78	139667	5.064	ug/l #	92
35) Methacrylonitrile	7.784	41	21071	5.346	ug/l	93
36) 1,2-Dichloroethane	8.678	62	43940	5.093	ug/l	95
37) Trichloroethene	9.360	130	34776	5.106	ug/l	83
38) Methylcyclohexane	9.607	83	61130	5.027	ug/l	91
39) 1,2-Dichloropropane	9.625	63	34867	5.109	ug/l	96
40) Dibromomethane	9.713	93	25027	5.039	ug/l	96
41) Bromodichloromethane	9.895	83	49835	5.023	ug/l	94
42) Vinyl Acetate	6.613	43	305544m	25.171	ug/l	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
43) Ethyl Acetate	7.572	43	39722	5.127	ug/l	#	79
44) Isopropyl Acetate	8.695	43	69211	4.933	ug/l	#	87
45) 1,4-Dioxane	9.695	88	14969	103.277	ug/l	#	78
46) Methyl methacrylate	9.683	41	30722	5.110	ug/l		86
47) n-amyl Acetate	12.495	43	56994	4.684	ug/l		96
48) t-1,3-Dichloropropene	10.836	75	53703	4.865	ug/l		99
49) cis-1,3-Dichloropropene	10.313	75	57559	4.900	ug/l		90
50) 1,1,2-Trichloroethane	11.019	97	36862	5.177	ug/l		91
51) Ethyl methacrylate	10.877	69	51939	4.680	ug/l		84
52) 1,3-Dichloropropane	11.166	76	59620	4.981	ug/l		99
53) Dibromochloromethane	11.366	129	37575	5.021	ug/l		99
54) 1,2-Dibromoethane	11.472	107	34726	4.817	ug/l		98
55) 2-Chloroethyl vinyl ether	10.166	63	84102	25.597	ug/l		96
56) Bromoform	12.583	173	24932	4.905	ug/l	#	99
58) 4-Methyl-2-Pentanone	10.448	43	207351	25.450	ug/l	#	83
59) 2-Hexanone	11.201	43	161661	25.710	ug/l	#	86
61) Tetrachloroethene	11.113	164	27991	5.336	ug/l		91
62) Toluene	10.636	91	156523	5.098	ug/l		96
64) Chlorobenzene	11.895	112	94383	5.071	ug/l	#	87
65) 1,1,1,2-Tetrachloroethane	11.960	131	33323	4.793	ug/l		94
66) Ethyl Benzene	11.966	91	165251	4.842	ug/l		99
67) m/p-Xylenes	12.072	106	130153	9.817	ug/l		98
68) o-Xylene	12.401	106	65502	4.943	ug/l		97
69) Styrene	12.413	104	102774	4.825	ug/l		98
70) Isopropylbenzene	12.701	105	164588	4.885	ug/l		99
71) 1,1,2,2-Tetrachloroethane	12.936	83	51388	4.983	ug/l		98
72) 1,2,3-Trichloropropane	12.995	75	35334m	4.832	ug/l		
73) Bromobenzene	12.983	156	32656	4.728	ug/l		87
74) n-propylbenzene	13.036	91	171020	4.569	ug/l		98
75) 2-Chlorotoluene	13.124	91	105334	4.719	ug/l		99
76) 1,3,5-Trimethylbenzene	13.177	105	125504	4.560	ug/l		93
77) t-1,4-Dichloro-2-butene	12.736	75	16612	4.586	ug/l		83
78) 4-Chlorotoluene	13.224	91	93995	4.442	ug/l		97
79) tert-butylbenzene	13.442	119	113993	4.760	ug/l		99
80) 1,2,4-Trimethylbenzene	13.489	105	117577	4.392	ug/l		96
81) sec-Butylbenzene	13.618	105	152718	4.455	ug/l		99
82) p-Isopropyltoluene	13.730	119	119105	4.335	ug/l		98
83) 1,3-Dichlorobenzene	13.736	146	60597	4.690	ug/l		99
84) 1,4-Dichlorobenzene	13.813	146	58067	4.641	ug/l		96
85) n-Butylbenzene	14.060	91	92516	4.042	ug/l		98
86) Hexachloroethane	14.336	117	28195	4.834	ug/l		86
87) 1,2-Dichlorobenzene	14.107	146	58136	4.597	ug/l		98
88) 1,2-Dibromo-3-Chloropr...	14.718	75	10160	5.381	ug/l		99
89) 1,2,4-Trichlorobenzene	15.365	180	18901	3.917	ug/l		95
90) Hexachlorobutadiene	15.465	225	10999	4.159	ug/l		90
91) Naphthalene	15.589	128	71059	3.917	ug/l		98
92) 1,2,3-Trichlorobenzene	15.754	180	19773	4.233	ug/l		87

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

