

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042823\
 Data File : VN077502.D
 Acq On : 28 Apr 2023 14:49
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC005

Quant Time: Apr 28 16:09:06 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Apr 28 16:05:06 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 04/29/2023
 Supervised By : Semsettin Yesilyurt 04/29/2023

04/29/2023
 Supervised By : Semsettin
 Yesilyurt

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

Internal Standards						
1) Bromochloromethane	7.825	128	66719	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.107	114	510847	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.866	117	540890	30.000	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.578	65	186252	30.848	ug/l	-0.01
Spiked Amount	30.000	Range	91 - 110	Recovery	= 102.833%	
60) 4-Bromofluorobenzene	12.854	95	265321	27.780	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 92.600%	
63) Toluene-d8	10.572	98	579028	30.427	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 101.433%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.137	85	43170	4.884	ug/l	98
3) Chloromethane	2.372	50	33455	5.228	ug/l	92
4) Vinyl Chloride	2.525	62	45437	5.074	ug/l	94
5) Bromomethane	2.949	94	44443	5.885	ug/l	96
6) Chloroethane	3.125	64	36055m	5.871	ug/l	
7) Trichlorofluoromethane	3.507	101	67126	5.092	ug/l	94
8) Diethyl Ether	3.966	74	22951	4.974	ug/l	93
9) 1,1,2-Trichlorotrifluo...	4.378	101	37158m	4.945	ug/l	
10) 1,1-Dichloroethene	4.343	96	35997	5.029	ug/l	96
11) Methyl Iodide	4.601	142	40536m	4.584	ug/l	
12) Methyl Acetate	5.042	43	50533	4.904	ug/l	88
13) Acrolein	4.190	56	30644	24.715	ug/l	93
14) Acrylonitrile	5.737	53	79346	24.915	ug/l #	87
15) Acetone	4.437	58	23786	23.621	ug/l	98
16) Carbon Disulfide	4.719	76	91219	5.014	ug/l	98
17) Allyl chloride	5.037	41	40253	5.191	ug/l	94
18) Methylene Chloride	5.290	84	43604	5.195	ug/l #	81
19) trans-1,2-Dichloroethene	5.795	96	39573	5.003	ug/l	95
20) Diisopropyl ether	6.678	45	88937	4.883	ug/l	95
21) 1,1-Dichloroethane	6.578	63	65966	4.923	ug/l	99
22) cis-1,2-Dichloroethene	7.489	96	47701	5.047	ug/l	96
23) tert-Butyl Alcohol	5.537	59	35312	25.460	ug/l #	100
24) Methyl tert-Butyl Ether	5.807	73	125049	5.039	ug/l #	91
25) Chloroform	7.972	83	74751	4.857	ug/l	94
26) Cyclohexane	8.260	56	53745	4.943	ug/l #	99
29) 1,1-Dichloropropene	8.378	75	53359	4.809	ug/l	88
30) 2-Butanone	7.495	43	99166	24.776	ug/l	98
31) 2,2-Dichloropropane	7.501	77	61531m	4.688	ug/l	
32) 1,1,1-Trichloroethane	8.178	97	67120	4.672	ug/l #	80
33) Carbon Tetrachloride	8.372	117	59423	4.797	ug/l	95
34) Benzene	8.613	78	165143	4.870	ug/l #	93
35) Methacrylonitrile	7.789	41	20594	4.946	ug/l	84
36) 1,2-Dichloroethane	8.678	62	55980	4.829	ug/l #	89
37) Trichloroethene	9.354	130	42015	4.833	ug/l	98
38) Methylcyclohexane	9.601	83	68624	4.699	ug/l	94
39) 1,2-Dichloropropane	9.625	63	39426	5.034	ug/l	96
40) Dibromomethane	9.713	93	30883	4.961	ug/l	97
41) Bromodichloromethane	9.895	83	57798	4.679	ug/l #	95
42) Vinyl Acetate	6.613	43	323635m	28.011	ug/l	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
43) Ethyl Acetate	7.566	43	37767	4.740	ug/l	#	88
44) Isopropyl Acetate	8.695	43	65710	4.706	ug/l		99
45) 1,4-Dioxane	9.701	88	16730	98.879	ug/l	#	89
46) Methyl methacrylate	9.683	41	30755	4.864	ug/l		99
47) n-amyl Acetate	12.495	43	50285	4.430	ug/l		96
48) t-1,3-Dichloropropene	10.842	75	56493	4.468	ug/l		97
49) cis-1,3-Dichloropropene	10.319	75	61253	4.480	ug/l		91
50) 1,1,2-Trichloroethane	11.019	97	41945	4.714	ug/l		96
51) Ethyl methacrylate	10.872	69	56467	4.575	ug/l		97
52) 1,3-Dichloropropane	11.166	76	68620	4.765	ug/l		96
53) Dibromochloromethane	11.366	129	40649	4.412	ug/l		98
54) 1,2-Dibromoethane	11.471	107	44804	4.967	ug/l		98
55) 2-Chloroethyl vinyl ether	10.160	63	86008	21.426	ug/l		97
56) Bromoform	12.583	173	25305	4.394	ug/l	#	93
58) 4-Methyl-2-Pentanone	10.448	43	203583	25.199	ug/l		97
59) 2-Hexanone	11.195	43	147456	24.663	ug/l		100
61) Tetrachloroethene	11.107	164	31994	4.818	ug/l	#	90
62) Toluene	10.636	91	183243	4.811	ug/l		97
64) Chlorobenzene	11.895	112	113242	4.899	ug/l		99
65) 1,1,1,2-Tetrachloroethane	11.966	131	39229	4.733	ug/l		99
66) Ethyl Benzene	11.966	91	199120	4.787	ug/l		97
67) m/p-Xylenes	12.071	106	150781	9.286	ug/l		95
68) o-Xylene	12.401	106	75970	4.750	ug/l		97
69) Styrene	12.413	104	113610	4.512	ug/l		98
70) Isopropylbenzene	12.701	105	186204	4.529	ug/l		99
71) 1,1,2,2-Tetrachloroethane	12.942	83	60926	4.902	ug/l		100
72) 1,2,3-Trichloropropane	12.989	75	51776m	4.949	ug/l		
73) Bromobenzene	12.983	156	42474	4.881	ug/l		98
74) n-propylbenzene	13.036	91	206296	4.513	ug/l		98
75) 2-Chlorotoluene	13.130	91	130188	4.627	ug/l		97
76) 1,3,5-Trimethylbenzene	13.177	105	128974	4.081	ug/l		99
77) t-1,4-Dichloro-2-butene	12.736	75	14719	4.151	ug/l		81
78) 4-Chlorotoluene	13.224	91	118417	4.475	ug/l		98
79) tert-butylbenzene	13.442	119	131033	4.505	ug/l		97
80) 1,2,4-Trimethylbenzene	13.489	105	108519	3.699	ug/l		94
81) sec-Butylbenzene	13.618	105	176420	4.289	ug/l		98
82) p-Isopropyltoluene	13.736	119	135521	4.206	ug/l		98
83) 1,3-Dichlorobenzene	13.736	146	68726	4.396	ug/l		98
84) 1,4-Dichlorobenzene	13.813	146	68808	4.451	ug/l		99
85) n-Butylbenzene	14.060	91	94173	3.698	ug/l		100
86) Hexachloroethane	14.336	117	28872	4.456	ug/l		97
87) 1,2-Dichlorobenzene	14.112	146	72091	4.607	ug/l		98
88) 1,2-Dibromo-3-Chloropr...	14.724	75	11088	4.756	ug/l		94
89) 1,2,4-Trichlorobenzene	15.395	180	14489	3.169	ug/l		93
90) Hexachlorobutadiene	15.501	225	16172	4.860	ug/l		99
91) Naphthalene	15.642	128	48832	2.857	ug/l	#	88
92) 1,2,3-Trichlorobenzene	15.836	180	13951	3.178	ug/l		71

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

