

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042624\
 Data File : VN081898.D
 Acq On : 27 Apr 2024 02:21
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC005

Quant Time: May 14 11:15:47 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	7.818	128	43136	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	258984	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	219729	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	108837	33.578	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 111.933%#			
60) 4-Bromofluorobenzene	12.847	95	107601	32.032	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 106.767%			
63) Toluene-d8	10.571	98	321507	32.605	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 108.667%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	13698	4.670	ug/l	96
3) Chloromethane	2.359	50	15108	5.126	ug/l #	85
4) Vinyl Chloride	2.512	62	14914	4.244	ug/l	92
5) Bromomethane	2.959	94	9534	4.039	ug/l	85
6) Chloroethane	3.124	64	8206	3.582	ug/l	98
7) Trichlorofluoromethane	3.500	101	21397	4.624	ug/l #	79
8) Diethyl Ether	3.959	74	10107	6.214	ug/l	66
9) 1,1,2-Trichlorotrifluo...	4.371	101	17006m	6.771	ug/l	
10) 1,1-Dichloroethene	4.359	96	15618m	6.345	ug/l	
11) Methyl Iodide	4.594	142	10088	3.827	ug/l	82
12) Methyl Acetate	5.030	43	19162m	8.590	ug/l	
13) Acrolein	4.183	56	19156m	39.379	ug/l	
14) Acrylonitrile	5.724	53	38599	34.847	ug/l #	89
15) Acetone	4.441	58	8383m	32.898	ug/l	
16) Carbon Disulfide	4.712	76	45438	6.726	ug/l	99
17) Allyl chloride	5.030	41	26679m	8.630	ug/l	
18) Methylene Chloride	5.277	84	16714	5.941	ug/l #	79
19) trans-1,2-Dichloroethene	5.777	96	17073m	6.110	ug/l	
20) Diisopropyl ether	6.671	45	51582	6.942	ug/l #	90
21) 1,1-Dichloroethane	6.577	63	27531m	5.782	ug/l	
22) cis-1,2-Dichloroethene	7.494	96	18656m	5.746	ug/l	
23) tert-Butyl Alcohol	5.518	59	16002m	39.656	ug/l	
24) Methyl tert-Butyl Ether	5.788	73	48851	5.986	ug/l #	86
25) Chloroform	7.959	83	26865	5.085	ug/l	98
26) Cyclohexane	8.247	56	26187m	7.303	ug/l	
29) 1,1-Dichloropropene	8.371	75	21126	5.476	ug/l	92
30) 2-Butanone	7.488	43	50406	35.613	ug/l	95
31) 2,2-Dichloropropane	7.494	77	20728	4.719	ug/l #	87
32) 1,1,1-Trichloroethane	8.171	97	22506	4.638	ug/l	95
33) Carbon Tetrachloride	8.365	117	18930	4.630	ug/l	97
34) Benzene	8.606	78	63484	5.385	ug/l #	90
35) Methacrylonitrile	7.777	41	12322	7.407	ug/l	81
36) 1,2-Dichloroethane	8.677	62	21302	5.384	ug/l	95
37) Trichloroethene	9.347	130	18889	6.027	ug/l	89
38) Methylcyclohexane	9.600	83	25673	6.668	ug/l	97
39) 1,2-Dichloropropane	9.618	63	16456	5.885	ug/l	93
40) Dibromomethane	9.712	93	10815	5.084	ug/l	88
41) Bromodichloromethane	9.888	83	22139	5.317	ug/l #	94
42) Vinyl Acetate	6.600	43	217267	35.887	ug/l #	81

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.565	43	22886	7.763	ug/l #	77
44) Isopropyl Acetate	8.688	43	39391	7.436	ug/l #	88
45) 1,4-Dioxane	9.694	88	6491	129.207	ug/l #	93
46) Methyl methacrylate	9.682	41	17175	7.086	ug/l	86
47) n-amyl Acetate	12.494	43	32113	6.952	ug/l	89
48) t-1,3-Dichloropropene	10.835	75	23824	5.460	ug/l	93
49) cis-1,3-Dichloropropene	10.318	75	24454	5.172	ug/l #	86
50) 1,1,2-Trichloroethane	11.018	97	13834	4.700	ug/l	93
51) Ethyl methacrylate	10.871	69	25571	6.215	ug/l	79
52) 1,3-Dichloropropane	11.165	76	25879	5.324	ug/l	99
53) Dibromochloromethane	11.359	129	14938	4.656	ug/l	92
54) 1,2-Dibromoethane	11.476	107	13406	4.402	ug/l	98
55) 2-Chloroethyl vinyl ether	10.165	63	68218	32.357	ug/l	97
56) Bromoform	12.582	173	8591	4.204	ug/l #	95
58) 4-Methyl-2-Pentanone	10.447	43	110162m	38.617	ug/l	
59) 2-Hexanone	11.194	43	80270	38.257	ug/l	91
61) Tetrachloroethene	11.106	164	13339	5.314	ug/l	92
62) Toluene	10.635	91	69016	5.734	ug/l	94
64) Chlorobenzene	11.888	112	39893	5.411	ug/l	90
65) 1,1,1,2-Tetrachloroethane	11.959	131	13189	4.823	ug/l	95
66) Ethyl Benzene	11.965	91	71446	5.645	ug/l	98
67) m/p-Xylenes	12.076	106	54531	10.972	ug/l	95
68) o-Xylene	12.400	106	26591	5.460	ug/l	97
69) Styrene	12.412	104	43405	5.413	ug/l	95
70) Isopropylbenzene	12.700	105	65743	5.539	ug/l	97
71) 1,1,2,2-Tetrachloroethane	12.935	83	18825	5.143	ug/l	99
72) 1,2,3-Trichloropropane	13.000	75	15067m	5.259	ug/l	
73) Bromobenzene	12.982	156	15174	5.141	ug/l	88
74) n-propylbenzene	13.035	91	73920	5.480	ug/l	99
75) 2-Chlorotoluene	13.123	91	48555	5.798	ug/l	98
76) 1,3,5-Trimethylbenzene	13.170	105	51798	5.333	ug/l	94
77) t-1,4-Dichloro-2-butene	12.741	75	7387	6.813	ug/l	85
78) 4-Chlorotoluene	13.223	91	46790	5.579	ug/l	99
79) tert-butylbenzene	13.441	119	47778	5.926	ug/l	98
80) 1,2,4-Trimethylbenzene	13.482	105	54649	5.647	ug/l	99
81) sec-Butylbenzene	13.617	105	63652	5.638	ug/l	96
82) p-Isopropyltoluene	13.729	119	48802	5.149	ug/l	97
83) 1,3-Dichlorobenzene	13.735	146	25878	4.874	ug/l	95
84) 1,4-Dichlorobenzene	13.811	146	24772	4.649	ug/l	99
85) n-Butylbenzene	14.059	91	41337	5.286	ug/l	96
86) Hexachloroethane	14.329	117	9728	6.507	ug/l	84
87) 1,2-Dichlorobenzene	14.106	146	25515	4.936	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.723	75	4123	6.241	ug/l #	80
89) 1,2,4-Trichlorobenzene	15.847	180	13282	5.253	ug/l	97
90) Hexachlorobutadiene	15.505	225	5978	5.389	ug/l	95
91) Naphthalene	15.641	128	47962	5.342	ug/l	98
92) 1,2,3-Trichlorobenzene	15.847	180	13282	5.253	ug/l	97

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

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