

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062323\
 Data File : VN078371.D
 Acq On : 23 Jun 2023 11:58
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/24/2023
 Supervised By : Mahesh Dadoda 06/26/2023

Quant Time: Jun 24 00:36:04 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N062323W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Jun 24 00:28:04 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.824	128	76869	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	440134	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.870	117	363434	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	181305	31.321	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 104.400%			
60) 4-Bromofluorobenzene	12.853	95	141671	27.668	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 92.233%			
63) Toluene-d8	10.571	98	551884	31.341	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 104.467%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.136	85	24180	5.194	ug/l	96
3) Chloromethane	2.371	50	28656	5.104	ug/l	92
4) Vinyl Chloride	2.524	62	36724	5.317	ug/l	99
5) Bromomethane	2.959	94	34859	6.209	ug/l	98
6) Chloroethane	3.130	64	31512	6.406	ug/l	95
7) Trichlorofluoromethane	3.506	101	43757	5.383	ug/l	96
8) Diethyl Ether	3.965	74	13274	4.892	ug/l	87
9) 1,1,2-Trichlorotrifluo...	4.383	101	24378m	5.517	ug/l	
10) 1,1-Dichloroethene	4.353	96	23461	5.415	ug/l	82
11) Methyl Iodide	4.600	142	30597	4.985	ug/l	97
12) Methyl Acetate	5.041	43	36605	5.447	ug/l	95
13) Acrolein	4.194	56	23618	28.061	ug/l	95
14) Acrylonitrile	5.736	53	46114	24.995	ug/l	67
15) Acetone	4.447	58	13887m	26.877	ug/l	
16) Carbon Disulfide	4.724	76	64898	5.482	ug/l	96
17) Allyl chloride	5.036	41	29020	5.329	ug/l	97
18) Methylene Chloride	5.294	84	29626m	5.770	ug/l	
19) trans-1,2-Dichloroethene	5.794	96	26081	5.454	ug/l	88
20) Diisopropyl ether	6.688	45	70370	5.391	ug/l	95
21) 1,1-Dichloroethane	6.577	63	47980m	5.541	ug/l	
22) cis-1,2-Dichloroethene	7.488	96	28039	5.155	ug/l #	85
23) tert-Butyl Alcohol	5.536	59	20338	29.984	ug/l #	100
24) Methyl tert-Butyl Ether	5.812	73	71887	5.262	ug/l #	82
25) Chloroform	7.971	83	47954	5.241	ug/l	95
26) Cyclohexane	8.271	56	30573	4.934	ug/l #	22
29) 1,1-Dichloropropene	8.382	75	34707	5.087	ug/l	98
30) 2-Butanone	7.500	43	61517	25.723	ug/l	98
31) 2,2-Dichloropropane	7.500	77	35412	4.854	ug/l #	57
32) 1,1,1-Trichloroethane	8.177	97	44118	5.307	ug/l	99
33) Carbon Tetrachloride	8.365	117	37491	5.172	ug/l #	78
34) Benzene	8.618	78	105730	5.197	ug/l	95
35) Methacrylonitrile	7.782	41	15251m	5.557	ug/l	
36) 1,2-Dichloroethane	8.677	62	36344	5.239	ug/l #	85
37) Trichloroethene	9.365	130	27031	5.200	ug/l	99
38) Methylcyclohexane	9.612	83	29624	4.942	ug/l	95
39) 1,2-Dichloropropane	9.624	63	26037	5.109	ug/l	93
40) Dibromomethane	9.718	93	19404	5.276	ug/l	95
41) Bromodichloromethane	9.894	83	36850	5.158	ug/l	90
42) Vinyl Acetate	6.612	43	186031	24.419	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.577	43	25563m	5.211	ug/l	
44) Isopropyl Acetate	8.694	43	51990	5.716	ug/l	95
45) 1,4-Dioxane	9.706	88	9412m	120.139	ug/l	
46) Methyl methacrylate	9.688	41	20202	4.990	ug/l	91
47) n-amyl Acetate	12.500	43	28943	4.329	ug/l	99
48) t-1,3-Dichloropropene	10.841	75	35847	4.888	ug/l	93
49) cis-1,3-Dichloropropene	10.323	75	39466	4.882	ug/l	94
50) 1,1,2-Trichloroethane	11.018	97	25415	5.155	ug/l	95
51) Ethyl methacrylate	10.882	69	32572	4.829	ug/l	90
52) 1,3-Dichloropropane	11.171	76	43987	5.316	ug/l	98
53) Dibromochloromethane	11.365	129	25011	4.783	ug/l	94
54) 1,2-Dibromoethane	11.476	107	25611	5.154	ug/l	100
55) 2-Chloroethyl vinyl ether	10.165	63	55506	22.307	ug/l	96
56) Bromoform	12.582	173	14263	4.456	ug/l	98
58) 4-Methyl-2-Pentanone	10.453	43	129566	26.696	ug/l	98
59) 2-Hexanone	11.200	43	87113	25.989	ug/l	95
61) Tetrachloroethene	11.106	164	22499	5.650	ug/l	93
62) Toluene	10.635	91	111755	5.284	ug/l	98
64) Chlorobenzene	11.894	112	67617	5.394	ug/l	91
65) 1,1,1,2-Tetrachloroethane	11.970	131	26963	5.578	ug/l	91
66) Ethyl Benzene	11.970	91	108685	5.050	ug/l	97
67) m/p-Xylenes	12.076	106	80732	9.920	ug/l	100
68) o-Xylene	12.406	106	38357	4.861	ug/l	91
69) Styrene	12.417	104	56972	4.560	ug/l	96
70) Isopropylbenzene	12.700	105	95952	4.948	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.941	83	34126	5.412	ug/l	96
72) 1,2,3-Trichloropropane	13.000	75	26664m	4.797	ug/l	
73) Bromobenzene	12.988	156	23142	4.992	ug/l	98
74) n-propylbenzene	13.041	91	98970	4.694	ug/l	100
75) 2-Chlorotoluene	13.129	91	81968	5.743	ug/l	96
76) 1,3,5-Trimethylbenzene	13.176	105	89558	5.570	ug/l	99
77) t-1,4-Dichloro-2-butene	12.741	75	7426	4.371	ug/l	89
78) 4-Chlorotoluene	13.223	91	72721	5.444	ug/l	98
79) tert-butylbenzene	13.441	119	79439	6.006	ug/l	99
80) 1,2,4-Trimethylbenzene	13.488	105	74568	4.908	ug/l	99
81) sec-Butylbenzene	13.617	105	80577	4.883	ug/l	97
82) p-Isopropyltoluene	13.735	119	62977	4.745	ug/l	96
83) 1,3-Dichlorobenzene	13.741	146	32346	4.402	ug/l	98
84) 1,4-Dichlorobenzene	13.817	146	29946	4.215	ug/l	100
85) n-Butylbenzene	14.064	91	43146	4.401	ug/l	96
86) Hexachloroethane	14.335	117	13240	5.183	ug/l	97
87) 1,2-Dichlorobenzene	14.106	146	32308	4.436	ug/l	96
88) 1,2-Dibromo-3-Chloropr...	14.723	75	4990	5.252	ug/l #	86
89) 1,2,4-Trichlorobenzene	15.394	180	7664	3.451	ug/l	95
90) Hexachlorobutadiene	15.500	225	8611	5.703	ug/l	94
91) Naphthalene	15.647	128	26583	3.653	ug/l	98
92) 1,2,3-Trichlorobenzene	15.847	180	9779	3.806	ug/l	97

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

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