

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092723\
 Data File : VN079355.D
 Acq On : 27 Sep 2023 09:48
 Operator : JC\MD
 Sample : VSTDICC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC050

Quant Time: Sep 27 23:35:17 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N092723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Sep 27 23:34:19 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 09/28/2023
 Supervised By : Semsettin Yesilyurt 09/28/2023

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

Internal Standards						
1) Bromochloromethane	7.818	128	41607	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	225316	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	209852	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	100757	29.519	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	98.400%		
60) 4-Bromofluorobenzene	12.853	95	98336	32.876	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	109.600%		
63) Toluene-d8	10.571	98	305920	29.672	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	98.900%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	126525	49.276	ug/l	98
3) Chloromethane	2.365	50	159838	48.544	ug/l	99
4) Vinyl Chloride	2.518	62	179164	49.656	ug/l	98
5) Bromomethane	2.948	94	102759	50.648	ug/l	92
6) Chloroethane	3.118	64	117840	45.843	ug/l	97
7) Trichlorofluoromethane	3.501	101	210504	49.233	ug/l	98
8) Diethyl Ether	3.965	74	76051	49.836	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.371	101	116652	48.635	ug/l	96
10) 1,1-Dichloroethene	4.342	96	112028	50.541	ug/l	95
11) Methyl Iodide	4.595	142	141672	57.875	ug/l	94
12) Methyl Acetate	5.024	43	247664	55.568	ug/l	98
13) Acrolein	4.183	56	131281	259.444	ug/l	100
14) Acrylonitrile	5.718	53	331800	252.873	ug/l	99
15) Acetone	4.430	58	106425	247.896	ug/l	84
16) Carbon Disulfide	4.712	76	335762	50.002	ug/l	99
17) Allyl chloride	5.024	41	184072	51.728	ug/l	96
18) Methylene Chloride	5.277	84	139479	48.394	ug/l	98
19) trans-1,2-Dichloroethene	5.789	96	129921	55.452	ug/l	98
20) Diisopropyl ether	6.671	45	439336	52.193	ug/l	98
21) 1,1-Dichloroethane	6.571	63	253434	49.969	ug/l	98
22) cis-1,2-Dichloroethene	7.489	96	150633	51.061	ug/l	95
23) tert-Butyl Alcohol	5.518	59	106444	276.087	ug/l #	100
24) Methyl tert-Butyl Ether	5.795	73	388498	57.859	ug/l	99
25) Chloroform	7.971	83	259260	50.070	ug/l	95
26) Cyclohexane	8.259	56	206809	59.750	ug/l #	98
29) 1,1-Dichloropropene	8.377	75	194767	51.308	ug/l	99
30) 2-Butanone	7.483	43	467260	248.820	ug/l	100
31) 2,2-Dichloropropane	7.489	77	212612	50.728	ug/l	99
32) 1,1,1-Trichloroethane	8.171	97	223247	50.726	ug/l	99
33) Carbon Tetrachloride	8.365	117	192454	50.490	ug/l	99
34) Benzene	8.612	78	578159	50.272	ug/l	97
35) Methacrylonitrile	7.783	41	95722	49.232	ug/l	94
36) 1,2-Dichloroethane	8.677	62	205272	49.277	ug/l	100
37) Trichloroethene	9.353	130	133003	49.208	ug/l	99
38) Methylcyclohexane	9.606	83	202144	54.303	ug/l	99
39) 1,2-Dichloropropane	9.624	63	152108	49.827	ug/l	98
40) Dibromomethane	9.712	93	99848	49.411	ug/l	99
41) Bromodichloromethane	9.888	83	205369	49.908	ug/l	99
42) Vinyl Acetate	6.606	43	1337409	263.564	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.565	43	186899	49.965	ug/l	94
44) Isopropyl Acetate	8.688	43	305738	50.837	ug/l	99
45) 1,4-Dioxane	9.694	88	51178	1031.593	ug/l #	90
46) Methyl methacrylate	9.682	41	146512	53.601	ug/l	97
47) n-amyl Acetate	12.494	43	257140	60.082	ug/l	98
48) t-1,3-Dichloropropene	10.841	75	219023	52.403	ug/l	99
49) cis-1,3-Dichloropropene	10.318	75	239150	53.325	ug/l	98
50) 1,1,2-Trichloroethane	11.018	97	138272	50.158	ug/l	95
51) Ethyl methacrylate	10.877	69	209174	55.821	ug/l	99
52) 1,3-Dichloropropane	11.165	76	246313	50.090	ug/l	99
53) Dibromochloromethane	11.359	129	145180	52.031	ug/l	100
54) 1,2-Dibromoethane	11.471	107	136294	50.695	ug/l	97
55) 2-Chloroethyl vinyl ether	10.165	63	423042	290.397	ug/l	99
56) Bromoform	12.576	173	96812	54.462	ug/l	98
58) 4-Methyl-2-Pentanone	10.447	43	955160	254.339	ug/l	100
59) 2-Hexanone	11.200	43	696700	259.305	ug/l	98
61) Tetrachloroethene	11.106	164	112167	47.936	ug/l	95
62) Toluene	10.635	91	620418	49.353	ug/l	98
64) Chlorobenzene	11.894	112	359798	49.870	ug/l	95
65) 1,1,1,2-Tetrachloroethane	11.965	131	136873	50.716	ug/l	98
66) Ethyl Benzene	11.965	91	683055	53.721	ug/l	98
67) m/p-Xylenes	12.071	106	510252	108.539	ug/l	96
68) o-Xylene	12.400	106	243206	53.758	ug/l	98
69) Styrene	12.412	104	407865	57.232	ug/l	98
70) Isopropylbenzene	12.700	105	637443	55.384	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.941	83	202195	49.034	ug/l	99
72) 1,2,3-Trichloropropane	12.994	75	176760m	42.121	ug/l	
73) Bromobenzene	12.982	156	145186	53.877	ug/l	99
74) n-propylbenzene	13.035	91	771437	56.620	ug/l	99
75) 2-Chlorotoluene	13.129	91	453452	54.504	ug/l	100
76) 1,3,5-Trimethylbenzene	13.176	105	536998	56.141	ug/l	98
77) t-1,4-Dichloro-2-butene	12.735	75	61395	56.178	ug/l	93
78) 4-Chlorotoluene	13.223	91	439936	56.909	ug/l	100
79) tert-butylbenzene	13.441	119	436373	55.065	ug/l	99
80) 1,2,4-Trimethylbenzene	13.488	105	527921	56.418	ug/l	99
81) sec-Butylbenzene	13.618	105	633902	55.755	ug/l	100
82) p-Isopropyltoluene	13.729	119	517239	57.385	ug/l	98
83) 1,3-Dichlorobenzene	13.735	146	259110	56.859	ug/l	99
84) 1,4-Dichlorobenzene	13.812	146	248171	58.104	ug/l	99
85) n-Butylbenzene	14.059	91	431400	62.425	ug/l	98
86) Hexachloroethane	14.335	117	96222	51.526	ug/l	97
87) 1,2-Dichlorobenzene	14.106	146	249584	55.450	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.723	75	32910	51.731	ug/l	97
89) 1,2,4-Trichlorobenzene	15.841	180	105050	66.840	ug/l	97
90) Hexachlorobutadiene	15.506	225	58747	49.038	ug/l	97
91) Naphthalene	15.641	128	270597	71.798	ug/l	100
92) 1,2,3-Trichlorobenzene	15.841	180	105050	63.210	ug/l	97

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

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