

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090723\
 Data File : VN079175.D
 Acq On : 07 Sep 2023 11:32
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC005

Quant Time: Sep 08 04:57:03 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Sep 08 04:47:25 2023
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By :John Carlone 09/08/2023
 Supervised By :Mahesh Dadoda 09/08/2023

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

Internal Standards						
1) Bromochloromethane	7.818	128	32291	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	174163	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	153327	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	72568	29.868	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.567%		
60) 4-Bromofluorobenzene	12.853	95	62991	27.882	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	92.933%		
63) Toluene-d8	10.571	98	215742	30.108	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	100.367%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.130	85	8722	4.836	ug/l	98
3) Chloromethane	2.359	50	8981	4.966	ug/l	94
4) Vinyl Chloride	2.512	62	9794	5.474	ug/l	94
5) Bromomethane	2.942	94	5958	5.418	ug/l	82
6) Chloroethane	3.112	64	5501	5.020	ug/l #	76
7) Trichlorofluoromethane	3.495	101	10622	4.987	ug/l	94
8) Diethyl Ether	3.965	74	3659	4.685	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.377	101	5727	5.284	ug/l #	31
10) 1,1-Dichloroethene	4.336	96	5344	4.698	ug/l #	74
11) Methyl Iodide	4.589	142	6477	4.521	ug/l	93
12) Methyl Acetate	5.042	43	12795m	5.495	ug/l	
13) Acrolein	4.177	56	6039	25.012	ug/l #	68
14) Acrylonitrile	5.736	53	19044m	27.283	ug/l	
15) Acetone	4.442	58	4490m	22.133	ug/l	
16) Carbon Disulfide	4.712	76	16514	4.913	ug/l	98
17) Allyl chloride	5.030	41	8311	5.448	ug/l	94
18) Methylene Chloride	5.283	84	7468	4.895	ug/l	93
19) trans-1,2-Dichloroethene	5.794	96	6292	4.421	ug/l #	80
20) Diisopropyl ether	6.683	45	21332	3.908	ug/l #	86
21) 1,1-Dichloroethane	6.577	63	13153	4.114	ug/l	97
22) cis-1,2-Dichloroethene	7.494	96	11800	5.302	ug/l	100
23) tert-Butyl Alcohol	5.536	59	7640m	25.539	ug/l	
24) Methyl tert-Butyl Ether	5.812	73	20854	4.645	ug/l #	87
25) Chloroform	7.971	83	19683	5.106	ug/l	95
26) Cyclohexane	8.259	56	13513	4.662	ug/l #	96
29) 1,1-Dichloropropene	8.377	75	13636	4.883	ug/l	97
30) 2-Butanone	7.494	43	36665	26.105	ug/l #	57
31) 2,2-Dichloropropane	7.500	77	13846	4.971	ug/l	97
32) 1,1,1-Trichloroethane	8.171	97	16453	5.001	ug/l	99
33) Carbon Tetrachloride	8.365	117	13717	6.618	ug/l	97
34) Benzene	8.612	78	43596	4.914	ug/l #	87
35) Methacrylonitrile	7.788	41	7533	4.981	ug/l	89
36) 1,2-Dichloroethane	8.682	62	15009	5.130	ug/l	98
37) Trichloroethene	9.359	130	10460	4.988	ug/l	93
38) Methylcyclohexane	9.606	83	13109	4.696	ug/l	98
39) 1,2-Dichloropropane	9.630	63	10717	4.683	ug/l	99
40) Dibromomethane	9.712	93	7664	5.078	ug/l	97
41) Bromodichloromethane	9.888	83	14472	4.810	ug/l #	81
42) Vinyl Acetate	6.618	43	63171	18.939	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.571	43	13012	4.878	ug/l #	92
44) Isopropyl Acetate	8.700	43	23987	4.999	ug/l	97
45) 1,4-Dioxane	9.706	88	4672	97.816	ug/l	95
46) Methyl methacrylate	9.688	41	10237	4.775	ug/l	88
47) n-amyl Acetate	12.500	43	14962	4.434	ug/l	97
48) t-1,3-Dichloropropene	10.841	75	15932	4.895	ug/l	94
49) cis-1,3-Dichloropropene	10.318	75	16769	4.939	ug/l	96
50) 1,1,2-Trichloroethane	11.018	97	10881	5.138	ug/l	96
51) Ethyl methacrylate	10.882	69	15045	4.601	ug/l	96
52) 1,3-Dichloropropane	11.171	76	18928	5.237	ug/l	99
53) Dibromochloromethane	11.365	129	11506	5.182	ug/l	100
54) 1,2-Dibromoethane	11.476	107	10964	5.105	ug/l	99
55) 2-Chloroethyl vinyl ether	10.165	63	29410	25.314	ug/l	98
56) Bromoform	12.582	173	7620	4.929	ug/l #	99
58) 4-Methyl-2-Pentanone	10.453	43	71603	25.449	ug/l	99
59) 2-Hexanone	11.200	43	52133	26.383	ug/l	98
61) Tetrachloroethene	11.112	164	9158	5.489	ug/l #	89
62) Toluene	10.635	91	45824	5.133	ug/l	99
64) Chlorobenzene	11.900	112	26853	5.156	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.971	131	10152	5.092	ug/l	98
66) Ethyl Benzene	11.971	91	43317	4.819	ug/l	96
67) m/p-Xylenes	12.076	106	31570	9.334	ug/l	97
68) o-Xylene	12.406	106	16152	4.950	ug/l	99
69) Styrene	12.418	104	24371	4.684	ug/l	99
70) Isopropylbenzene	12.700	105	40235	4.853	ug/l	97
71) 1,1,2,2-Tetrachloroethane	12.941	83	16524	5.328	ug/l	95
72) 1,2,3-Trichloropropane	13.000	75	15010m	5.316	ug/l	
73) Bromobenzene	12.982	156	10292	4.969	ug/l	96
74) n-propylbenzene	13.041	91	43931	4.650	ug/l	99
75) 2-Chlorotoluene	13.129	91	29239	4.827	ug/l	99
76) 1,3,5-Trimethylbenzene	13.176	105	32175	4.693	ug/l	99
77) t-1,4-Dichloro-2-butene	12.747	75	4437	4.829	ug/l	93
78) 4-Chlorotoluene	13.229	91	26555	4.643	ug/l	95
79) tert-butylbenzene	13.447	119	24373	4.331	ug/l	97
80) 1,2,4-Trimethylbenzene	13.488	105	28422	4.341	ug/l	99
81) sec-Butylbenzene	13.623	105	35680	4.634	ug/l	99
82) p-Isopropyltoluene	13.735	119	27454	4.514	ug/l	99
83) 1,3-Dichlorobenzene	13.741	146	15602	4.744	ug/l	99
84) 1,4-Dichlorobenzene	13.817	146	13631	4.419	ug/l	96
85) n-Butylbenzene	14.065	91	20059	4.331	ug/l	98
86) Hexachloroethane	14.341	117	5825	4.838	ug/l	94
87) 1,2-Dichlorobenzene	14.112	146	15546	4.790	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.723	75	2468	4.708	ug/l	94
89) 1,2,4-Trichlorobenzene	15.847	180	5700	4.100	ug/l	95
90) Hexachlorobutadiene	15.506	225	4403	5.228	ug/l	96
91) Naphthalene	15.647	128	13823	3.808	ug/l	98
92) 1,2,3-Trichlorobenzene	15.847	180	5700	4.100	ug/l	95

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

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