

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081723\
 Data File : VN078926.D
 Acq On : 17 Aug 2023 15:05
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN081723

Quant Time: Aug 18 05:27:10 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N081723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Aug 18 05:21:14 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 08/18/2023
 Supervised By : Semsettin Yesilyurt 08/18/2023

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

Internal Standards						
1) Bromochloromethane	7.824	128	57192	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	316067	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	285076	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	134956	29.127	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	97.100%
60) 4-Bromofluorobenzene	12.853	95	124612	29.966	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	99.900%
63) Toluene-d8	10.571	98	402167	30.209	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	100.700%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.130	85	70989	19.670	ug/l	100
3) Chloromethane	2.365	50	86207	19.932	ug/l	99
4) Vinyl Chloride	2.512	62	87025	20.330	ug/l	95
5) Bromomethane	2.953	94	53144	20.113	ug/l	95
6) Chloroethane	3.112	64	54245	19.500	ug/l	100
7) Trichlorofluoromethane	3.495	101	115093	19.962	ug/l	97
8) Diethyl Ether	3.965	74	43249	19.944	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.371	101	62727	20.832	ug/l	90
10) 1,1-Dichloroethene	4.342	96	61312	20.239	ug/l #	83
11) Methyl Iodide	4.589	142	72778	19.909	ug/l	97
12) Methyl Acetate	5.030	43	146124	20.579	ug/l	94
13) Acrolein	4.177	56	36400	73.548	ug/l	91
14) Acrylonitrile	5.724	53	189137	101.328	ug/l #	91
15) Acetone	4.436	58	59587	104.067	ug/l	98
16) Carbon Disulfide	4.712	76	169071	19.424	ug/l	99
17) Allyl chloride	5.030	41	109229	19.672	ug/l	98
18) Methylene Chloride	5.283	84	72926	20.137	ug/l #	83
19) trans-1,2-Dichloroethene	5.783	96	68534	20.101	ug/l	94
20) Diisopropyl ether	6.683	45	258561	21.407	ug/l	92
21) 1,1-Dichloroethane	6.571	63	136739	20.402	ug/l	94
22) cis-1,2-Dichloroethene	7.488	96	78843	20.205	ug/l	96
23) tert-Butyl Alcohol	5.530	59	74026	106.320	ug/l #	100
24) Methyl tert-Butyl Ether	5.806	73	224820	20.907	ug/l	99
25) Chloroform	7.971	83	138844	20.564	ug/l	98
26) Cyclohexane	8.265	56	98355	20.062	ug/l #	100
29) 1,1-Dichloropropene	8.377	75	100743	20.953	ug/l	97
30) 2-Butanone	7.488	43	300314	106.695	ug/l	99
31) 2,2-Dichloropropane	7.494	77	116717	21.965	ug/l	100
32) 1,1,1-Trichloroethane	8.177	97	118270	20.603	ug/l	99
33) Carbon Tetrachloride	8.365	117	102120m	20.538	ug/l	
34) Benzene	8.612	78	305260	21.186	ug/l	99
35) Methacrylonitrile	7.783	41	63293	21.098	ug/l	94
36) 1,2-Dichloroethane	8.677	62	111764	20.714	ug/l	97
37) Trichloroethene	9.359	130	73555	20.508	ug/l	90
38) Methylcyclohexane	9.612	83	87835	20.750	ug/l	97
39) 1,2-Dichloropropane	9.630	63	80253	20.678	ug/l	100
40) Dibromomethane	9.712	93	52813	20.301	ug/l	99
41) Bromodichloromethane	9.894	83	110368	21.096	ug/l	96
42) Vinyl Acetate	6.612	43	848156	106.877	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.565	43	111991	20.509	ug/l	99
44) Isopropyl Acetate	8.694	43	198582	20.639	ug/l	100
45) 1,4-Dioxane	9.700	88	30164	416.603	ug/l	100
46) Methyl methacrylate	9.688	41	88961	20.985	ug/l	90
47) n-amyl Acetate	12.500	43	154508	20.926	ug/l	98
48) t-1,3-Dichloropropene	10.841	75	117989m	21.175	ug/l	
49) cis-1,3-Dichloropropene	10.318	75	129359	21.650	ug/l	96
50) 1,1,2-Trichloroethane	11.018	97	72513	20.626	ug/l	96
51) Ethyl methacrylate	10.876	69	118035	21.692	ug/l	96
52) 1,3-Dichloropropane	11.171	76	131573	20.895	ug/l	100
53) Dibromochloromethane	11.365	129	80407	20.897	ug/l	98
54) 1,2-Dibromoethane	11.471	107	74511	20.644	ug/l	92
55) 2-Chloroethyl vinyl ether	10.165	63	237766	94.536	ug/l	99
56) Bromoform	12.582	173	55361	20.392	ug/l	98
58) 4-Methyl-2-Pentanone	10.447	43	598004	105.729	ug/l	99
59) 2-Hexanone	11.200	43	443762	107.084	ug/l	100
61) Tetrachloroethene	11.112	164	54353	19.691	ug/l	91
62) Toluene	10.635	91	328618	21.114	ug/l	98
64) Chlorobenzene	11.900	112	196665	21.016	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.965	131	73823	20.632	ug/l	96
66) Ethyl Benzene	11.971	91	341948	21.004	ug/l	99
67) m/p-Xylenes	12.076	106	258383	42.567	ug/l	99
68) o-Xylene	12.400	106	129456	21.630	ug/l	95
69) Styrene	12.418	104	214869	22.094	ug/l	99
70) Isopropylbenzene	12.700	105	305526	21.068	ug/l	97
71) 1,1,2,2-Tetrachloroethane	12.941	83	111804	20.567	ug/l	96
72) 1,2,3-Trichloropropane	13.000	75	92013m	20.632	ug/l	
73) Bromobenzene	12.988	156	75776	20.525	ug/l	98
74) n-propylbenzene	13.041	91	350017	21.297	ug/l	99
75) 2-Chlorotoluene	13.129	91	222361	21.327	ug/l	99
76) 1,3,5-Trimethylbenzene	13.176	105	241799	21.034	ug/l	98
77) t-1,4-Dichloro-2-butene	12.741	75	37437	22.588	ug/l	93
78) 4-Chlorotoluene	13.229	91	210947	21.118	ug/l	99
79) tert-butylbenzene	13.441	119	202279	20.823	ug/l	98
80) 1,2,4-Trimethylbenzene	13.488	105	240655	21.290	ug/l	99
81) sec-Butylbenzene	13.623	105	267421	20.859	ug/l	98
82) p-Isopropyltoluene	13.735	119	215344	20.574	ug/l	99
83) 1,3-Dichlorobenzene	13.741	146	127783	21.447	ug/l	95
84) 1,4-Dichlorobenzene	13.817	146	124955	21.361	ug/l	98
85) n-Butylbenzene	14.065	91	170671	20.732	ug/l	100
86) Hexachloroethane	14.335	117	42969	20.063	ug/l	93
87) 1,2-Dichlorobenzene	14.112	146	128917	21.126	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.723	75	20559	21.071	ug/l	95
89) 1,2,4-Trichlorobenzene	15.847	180	47864	19.860	ug/l	98
90) Hexachlorobutadiene	15.506	225	23550	18.769	ug/l	92
91) Naphthalene	15.647	128	140367	20.193	ug/l	98
92) 1,2,3-Trichlorobenzene	15.847	180	47864	19.860	ug/l	98

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

