

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062323\
 Data File : VN078373.D
 Acq On : 23 Jun 2023 12:45
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN062323

Manual Integrations
 APPROVED

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

Quant Time: Jun 24 01:05:58 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N062323W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Jun 24 00:59:50 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.824	128	78394	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	448927	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.870	117	385815	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.588	65	176026	29.818	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.400%		
60) 4-Bromofluorobenzene	12.853	95	164317	30.229	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	100.767%		
63) Toluene-d8	10.576	98	559690	29.940	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	99.800%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.136	85	103056	21.705	ug/l	96
3) Chloromethane	2.371	50	125818	21.973	ug/l	92
4) Vinyl Chloride	2.524	62	153732	21.826	ug/l	97
5) Bromomethane	2.977	94	109039	19.042	ug/l	95
6) Chloroethane	3.130	64	104230	20.775	ug/l	96
7) Trichlorofluoromethane	3.512	101	182737	22.043	ug/l	97
8) Diethyl Ether	3.977	74	57918	20.929	ug/l	94
9) 1,1,2-Trichlorotrifluo...	4.383	101	99119	21.999	ug/l	97
10) 1,1-Dichloroethene	4.359	96	94441	21.373	ug/l	92
11) Methyl Iodide	4.600	142	136623	21.825	ug/l	94
12) Methyl Acetate	5.042	43	152483	22.244	ug/l	96
13) Acrolein	4.194	56	89300	104.037	ug/l	100
14) Acrylonitrile	5.736	53	203683	109.683	ug/l	98
15) Acetone	4.442	58	65035	122.817	ug/l	88
16) Carbon Disulfide	4.730	76	251569	20.835	ug/l	99
17) Allyl chloride	5.036	41	119145	21.498	ug/l	92
18) Methylene Chloride	5.294	84	114229	21.816	ug/l	94
19) trans-1,2-Dichloroethene	5.800	96	103405	21.205	ug/l	94
20) Diisopropyl ether	6.683	45	286401	21.513	ug/l	98
21) 1,1-Dichloroethane	6.577	63	194578	22.035	ug/l	96
22) cis-1,2-Dichloroethene	7.500	96	122058	22.002	ug/l	98
23) tert-Butyl Alcohol	5.536	59	64726	93.307	ug/l #	100
24) Methyl tert-Butyl Ether	5.806	73	301731	21.657	ug/l #	81
25) Chloroform	7.977	83	206424	22.120	ug/l	95
26) Cyclohexane	8.265	56	137721	21.792	ug/l #	97
29) 1,1-Dichloropropene	8.377	75	151171	21.723	ug/l	99
30) 2-Butanone	7.494	43	274292	112.448	ug/l	99
31) 2,2-Dichloropropane	7.500	77	163601	21.987	ug/l	99
32) 1,1,1-Trichloroethane	8.182	97	183601	21.652	ug/l	99
33) Carbon Tetrachloride	8.371	117	160720	21.738	ug/l	90
34) Benzene	8.612	78	449498	21.660	ug/l	100
35) Methacrylonitrile	7.788	41	61856	22.118	ug/l	85
36) 1,2-Dichloroethane	8.682	62	155983	22.046	ug/l	100
37) Trichloroethene	9.359	130	116788	22.027	ug/l	95
38) Methylcyclohexane	9.606	83	126391	20.672	ug/l	98
39) 1,2-Dichloropropane	9.629	63	115825	22.281	ug/l	95
40) Dibromomethane	9.718	93	81439	21.710	ug/l	96
41) Bromodichloromethane	9.894	83	159796	21.927	ug/l #	94
42) Vinyl Acetate	6.618	43	835799	107.561	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.571	43	112462	21.897	ug/l	100
44) Isopropyl Acetate	8.694	43	193052	20.811	ug/l	97
45) 1,4-Dioxane	9.700	88	29857	364.824	ug/l #	87
46) Methyl methacrylate	9.688	41	88495	21.431	ug/l	97
47) n-amyl Acetate	12.500	43	144540	21.196	ug/l	98
48) t-1,3-Dichloropropene	10.841	75	159022	21.256	ug/l	99
49) cis-1,3-Dichloropropene	10.318	75	174736	21.191	ug/l	96
50) 1,1,2-Trichloroethane	11.023	97	110519	21.977	ug/l	99
51) Ethyl methacrylate	10.882	69	144648	21.026	ug/l	94
52) 1,3-Dichloropropane	11.171	76	189427	22.444	ug/l	98
53) Dibromochloromethane	11.365	129	117479	22.025	ug/l	99
54) 1,2-Dibromoethane	11.470	107	113184	22.331	ug/l	98
55) 2-Chloroethyl vinyl ether	10.165	63	240883	94.910	ug/l	98
56) Bromoform	12.582	173	69676	21.340	ug/l #	96
58) 4-Methyl-2-Pentanone	10.453	43	569631	110.561	ug/l	100
59) 2-Hexanone	11.200	43	395040	111.020	ug/l	100
61) Tetrachloroethene	11.112	164	97198	22.991	ug/l	90
62) Toluene	10.635	91	494726	22.033	ug/l	99
64) Chlorobenzene	11.894	112	293145	22.027	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.965	131	111881	21.801	ug/l	98
66) Ethyl Benzene	11.970	91	502310	21.985	ug/l	99
67) m/p-Xylenes	12.076	106	385498	44.623	ug/l	99
68) o-Xylene	12.406	106	187753	22.412	ug/l	97
69) Styrene	12.417	104	291561	21.981	ug/l	98
70) Isopropylbenzene	12.700	105	453418	22.027	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.941	83	147799	22.079	ug/l	97
72) 1,2,3-Trichloropropane	13.000	75	116858m	20.943	ug/l	
73) Bromobenzene	12.982	156	106549	21.650	ug/l	99
74) n-propylbenzene	13.041	91	485994	21.712	ug/l	100
75) 2-Chlorotoluene	13.129	91	325807	21.502	ug/l	100
76) 1,3,5-Trimethylbenzene	13.176	105	366299	21.460	ug/l	99
77) t-1,4-Dichloro-2-butene	12.741	75	37967	21.051	ug/l	82
78) 4-Chlorotoluene	13.229	91	297320	20.968	ug/l	100
79) tert-butylbenzene	13.441	119	305583	21.763	ug/l	99
80) 1,2,4-Trimethylbenzene	13.488	105	360275	22.337	ug/l	98
81) sec-Butylbenzene	13.617	105	373041	21.296	ug/l	98
82) p-Isopropyltoluene	13.735	119	302917	21.499	ug/l	99
83) 1,3-Dichlorobenzene	13.735	146	165923	21.271	ug/l	99
84) 1,4-Dichlorobenzene	13.817	146	159516	21.151	ug/l	98
85) n-Butylbenzene	14.059	91	210761	20.251	ug/l	99
86) Hexachloroethane	14.335	117	57689	21.273	ug/l	97
87) 1,2-Dichlorobenzene	14.111	146	166606	21.547	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.729	75	20862	20.684	ug/l	96
89) 1,2,4-Trichlorobenzene	15.400	180	41824	17.740	ug/l	96
90) Hexachlorobutadiene	15.506	225	30460	19.003	ug/l	90
91) Naphthalene	15.647	128	131769	17.057	ug/l	98
92) 1,2,3-Trichlorobenzene	15.841	180	52422	19.220	ug/l	95

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

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