

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080223\
 Data File : VN078741.D
 Acq On : 02 Aug 2023 20:51
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Quant Time: Aug 03 05:34:26 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080123W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 02 04:51:47 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John
 Carlone
 08/03/2023

Supervised By :Semsetun
 Yesilyurt
 08/03/2023

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

Internal Standards						
1) Bromochloromethane	7.824	128	96931	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.112	114	533379	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	464565	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.589	65	224004	30.830	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 102.767%			
60) 4-Bromofluorobenzene	12.853	95	197391	28.352	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 94.500%			
63) Toluene-d8	10.571	98	692470	30.174	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.567%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.136	85	95643	15.643	ug/l	99
3) Chloromethane	2.377	50	176562	23.460	ug/l	97
4) Vinyl Chloride	2.524	62	204751	20.019	ug/l	94
5) Bromomethane	2.966	94	106086	13.876	ug/l	98
6) Chloroethane	3.130	64	116792	17.533	ug/l	100
7) Trichlorofluoromethane	3.507	101	277833	26.481	ug/l	98
8) Diethyl Ether	3.971	74	108681	31.729	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.389	101	153749	27.301	ug/l	98
10) 1,1-Dichloroethene	4.354	96	156318	28.946	ug/l	96
11) Methyl Iodide	4.601	142	169620	22.346	ug/l	98
12) Methyl Acetate	5.036	43	160934	18.373	ug/l	99
13) Acrolein	4.189	56	129781	139.137	ug/l	96
14) Acrylonitrile	5.730	53	241192	94.035	ug/l	95
15) Acetone	4.448	58	109756	147.692	ug/l	89
16) Carbon Disulfide	4.724	76	444639	29.148	ug/l	97
17) Allyl chloride	5.030	41	123359	16.730	ug/l	97
18) Methylene Chloride	5.289	84	120778	18.642	ug/l #	94
19) trans-1,2-Dichloroethene	5.795	96	105968	16.972	ug/l	95
20) Diisopropyl ether	6.683	45	304823	18.361	ug/l	97
21) 1,1-Dichloroethane	6.583	63	207484	18.874	ug/l #	94
22) cis-1,2-Dichloroethene	7.501	96	130145	18.560	ug/l	93
23) tert-Butyl Alcohol	5.542	59	90481m	86.329	ug/l	
24) Methyl tert-Butyl Ether	5.812	73	327171	18.017	ug/l	97
25) Chloroform	7.971	83	224706	19.307	ug/l	96
26) Cyclohexane	8.265	56	133594	16.498	ug/l #	98
29) 1,1-Dichloropropene	8.383	75	152315	19.407	ug/l	99
30) 2-Butanone	7.501	43	305885	98.593	ug/l	98
31) 2,2-Dichloropropane	7.501	77	150457	16.707	ug/l	100
32) 1,1,1-Trichloroethane	8.177	97	193063	19.443	ug/l	98
33) Carbon Tetrachloride	8.371	117	169329	19.200	ug/l	97
34) Benzene	8.612	78	468874	19.888	ug/l	98
35) Methacrylonitrile	7.789	41	67344	19.767	ug/l	90
36) 1,2-Dichloroethane	8.677	62	164714	19.894	ug/l	97
37) Trichloroethene	9.359	130	118212	17.868	ug/l	95
38) Methylcyclohexane	9.606	83	125188	15.525	ug/l	99
39) 1,2-Dichloropropane	9.630	63	120373	19.046	ug/l	94
40) Dibromomethane	9.712	93	87395	19.979	ug/l	97
41) Bromodichloromethane	9.895	83	176707	20.206	ug/l	95
42) Vinyl Acetate	6.618	43	950827	95.326	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.571	43	119127	18.573	ug/l	94
44) Isopropyl Acetate	8.700	43	233117	20.715	ug/l	98
45) 1,4-Dioxane	9.700	88	37012	357.547	ug/l	97
46) Methyl methacrylate	9.689	41	103037	19.994	ug/l	94
47) n-amyl Acetate	12.500	43	163363	18.849	ug/l	99
48) t-1,3-Dichloropropene	10.841	75	169257	18.134	ug/l	98
49) cis-1,3-Dichloropropene	10.318	75	187320	18.896	ug/l	96
50) 1,1,2-Trichloroethane	11.024	97	120943	19.532	ug/l	95
51) Ethyl methacrylate	10.883	69	161861	19.093	ug/l	93
52) 1,3-Dichloropropane	11.171	76	195652	17.580	ug/l	99
53) Dibromochloromethane	11.365	129	135433	19.361	ug/l	99
54) 1,2-Dibromoethane	11.477	107	119470	19.215	ug/l	97
55) 2-Chloroethyl vinyl ether	10.165	63	274688	101.687	ug/l	99
56) Bromoform	12.583	173	87584	19.136	ug/l	99
58) 4-Methyl-2-Pentanone	10.453	43	652347	93.815	ug/l	99
59) 2-Hexanone	11.200	43	456891	86.779	ug/l	97
61) Tetrachloroethene	11.112	164	103441	16.933	ug/l	91
62) Toluene	10.636	91	558971	20.003	ug/l	99
64) Chlorobenzene	11.894	112	303465	18.601	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.965	131	126146	19.605	ug/l	99
66) Ethyl Benzene	11.971	91	517354	18.370	ug/l	97
67) m/p-Xylenes	12.077	106	392886	36.521	ug/l	98
68) o-Xylene	12.406	106	194404	17.760	ug/l	99
69) Styrene	12.418	104	305239	17.331	ug/l	99
70) Isopropylbenzene	12.700	105	467969	17.281	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.941	83	165467	18.811	ug/l	98
72) 1,2,3-Trichloropropane	12.994	75	146508m	19.854	ug/l	
73) Bromobenzene	12.988	156	118416	17.841	ug/l	97
74) n-propylbenzene	13.041	91	495437	16.507	ug/l	97
75) 2-Chlorotoluene	13.130	91	328580	15.852	ug/l	98
76) 1,3,5-Trimethylbenzene	13.177	105	391720	16.202	ug/l	99
77) t-1,4-Dichloro-2-butene	12.741	75	39780	15.425	ug/l	98
78) 4-Chlorotoluene	13.230	91	306549	15.317	ug/l	99
79) tert-butylbenzene	13.441	119	324769	15.607	ug/l	98
80) 1,2,4-Trimethylbenzene	13.488	105	372785	16.144	ug/l	100
81) sec-Butylbenzene	13.618	105	393454	14.751	ug/l	97
82) p-Isopropyltoluene	13.735	119	333316	15.221	ug/l	100
83) 1,3-Dichlorobenzene	13.741	146	183109	15.557	ug/l	99
84) 1,4-Dichlorobenzene	13.818	146	178962	16.241	ug/l	99
85) n-Butylbenzene	14.059	91	221575	14.592	ug/l	99
86) Hexachloroethane	14.335	117	62379	15.635	ug/l	95
87) 1,2-Dichlorobenzene	14.112	146	186342	16.916	ug/l	95
88) 1,2-Dibromo-3-Chloropr...	14.724	75	25894	17.334	ug/l	98
89) 1,2,4-Trichlorobenzene	15.400	180	44726	14.231	ug/l	96
90) Hexachlorobutadiene	15.506	225	37573	15.692	ug/l	95
91) Naphthalene	15.647	128	130055	13.659	ug/l	97
92) 1,2,3-Trichlorobenzene	15.847	180	57519	16.081	ug/l	95

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

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