

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080223\
 Data File : VN078734.D
 Acq On : 02 Aug 2023 16:50
 Operator : JC\MD
 Sample : 03572-07 2.5PPB
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2023

Quant Time: Aug 03 05:32:49 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 : Semsettin Yesilyurt 08/03/2023

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

Internal Standards						
1) Bromochloromethane	7.818	128	99828	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	525322	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	450723	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.588	65	222612	29.749	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.167%		
60) 4-Bromofluorobenzene	12.859	95	159883	23.670	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	78.900%		
63) Toluene-d8	10.571	98	667689	29.988	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	99.967%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.136	85	17726	2.815	ug/l	91
3) Chloromethane	2.371	50	25805	3.329	ug/l	99
4) Vinyl Chloride	2.518	62	31534	2.994	ug/l	97
5) Bromomethane	2.971	94	21251	2.699	ug/l	98
6) Chloroethane	3.124	64	18403	2.683	ug/l	98
7) Trichlorofluoromethane	3.506	101	28924	2.677	ug/l	97
8) Diethyl Ether	3.977	74	8706m	2.468	ug/l	
9) 1,1,2-Trichlorotrifluo...	4.377	101	14340m	2.472	ug/l	
10) 1,1-Dichloroethene	4.359	96	14961m	2.690	ug/l	
11) Methyl Iodide	4.600	142	17927m	2.293	ug/l	
12) Methyl Acetate	5.053	43	21276	2.359	ug/l	99
13) Acrolein	4.200	56	12115	12.611	ug/l	90
14) Acrylonitrile	5.747	53	32163m	12.176	ug/l	
15) Acetone	4.447	58	9288	12.136	ug/l	91
16) Carbon Disulfide	4.724	76	40462	2.575	ug/l	95
17) Allyl chloride	5.047	41	19787m	2.606	ug/l	
18) Methylene Chloride	5.289	84	22083m	3.310	ug/l	
19) trans-1,2-Dichloroethene	5.806	96	15326m	2.383	ug/l	
20) Diisopropyl ether	6.683	45	38203	2.234	ug/l	94
21) 1,1-Dichloroethane	6.588	63	29455	2.602	ug/l	96
22) cis-1,2-Dichloroethene	7.500	96	18211	2.522	ug/l #	48
23) tert-Butyl Alcohol	5.542	59	15985m	14.809	ug/l	
24) Methyl tert-Butyl Ether	5.806	73	42636m	2.280	ug/l	
25) Chloroform	7.977	83	31607	2.637	ug/l	95
26) Cyclohexane	8.259	56	19058	2.285	ug/l #	98
29) 1,1-Dichloropropene	8.377	75	20010	2.589	ug/l	86
30) 2-Butanone	7.500	43	40100	13.123	ug/l #	94
31) 2,2-Dichloropropane	7.500	77	25498	2.875	ug/l #	89
32) 1,1,1-Trichloroethane	8.177	97	26519	2.712	ug/l	95
33) Carbon Tetrachloride	8.365	117	23297	2.682	ug/l	95
34) Benzene	8.612	78	64635	2.784	ug/l #	64
35) Methacrylonitrile	7.794	41	8799	2.622	ug/l	74
36) 1,2-Dichloroethane	8.677	62	22616	2.773	ug/l	95
37) Trichloroethene	9.365	130	16701	2.563	ug/l	88
38) Methylcyclohexane	9.606	83	18962	2.388	ug/l	96
39) 1,2-Dichloropropane	9.629	63	15749	2.530	ug/l	92
40) Dibromomethane	9.718	93	11723	2.721	ug/l	88
41) Bromodichloromethane	9.894	83	23046	2.676	ug/l	93
42) Vinyl Acetate	6.618	43	112492	11.451	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.571	43	18343	2.904	ug/l	93
44) Isopropyl Acetate	8.700	43	27650	2.495	ug/l #	88
45) 1,4-Dioxane	9.706	88	4779	46.875	ug/l #	67
46) Methyl methacrylate	9.694	41	11983	2.361	ug/l	91
47) n-amyl Acetate	12.500	43	16513	1.934	ug/l	97
48) t-1,3-Dichloropropene	10.841	75	21538	2.343	ug/l	94
49) cis-1,3-Dichloropropene	10.324	75	24587	2.518	ug/l #	91
50) 1,1,2-Trichloroethane	11.024	97	16202	2.657	ug/l	92
51) Ethyl methacrylate	10.876	69	17169	2.056	ug/l	90
52) 1,3-Dichloropropane	11.171	76	26370	2.406	ug/l	95
53) Dibromochloromethane	11.371	129	16671	2.420	ug/l	94
54) 1,2-Dibromoethane	11.476	107	15776	2.576	ug/l	97
55) 2-Chloroethyl vinyl ether	10.171	63	31223	11.736	ug/l	93
56) Bromoform	12.588	173	10854m	2.408	ug/l	
58) 4-Methyl-2-Pentanone	10.453	43	78045	11.568	ug/l	98
59) 2-Hexanone	11.200	43	52616	10.300	ug/l	94
61) Tetrachloroethene	11.112	164	14973	2.526	ug/l	94
62) Toluene	10.641	91	67344	2.484	ug/l	98
64) Chlorobenzene	11.894	112	40136	2.536	ug/l	95
65) 1,1,1,2-Tetrachloroethane	11.965	131	16320	2.614	ug/l	94
66) Ethyl Benzene	11.970	91	61206	2.240	ug/l	100
67) m/p-Xylenes	12.076	106	43671	4.184	ug/l	98
68) o-Xylene	12.406	106	23287	2.193	ug/l	91
69) Styrene	12.412	104	31087	1.819	ug/l	98
70) Isopropylbenzene	12.700	105	53605	2.040	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.941	83	19878	2.329	ug/l	95
72) 1,2,3-Trichloropropane	13.000	75	16707m	2.334	ug/l	
73) Bromobenzene	12.988	156	13697	2.127	ug/l	98
74) n-propylbenzene	13.041	91	55607	1.910	ug/l	99
75) 2-Chlorotoluene	13.135	91	35643	1.772	ug/l	99
76) 1,3,5-Trimethylbenzene	13.176	105	41771	1.781	ug/l	95
77) t-1,4-Dichloro-2-butene	12.747	75	5123	2.047	ug/l	88
78) 4-Chlorotoluene	13.229	91	30033	1.547	ug/l	99
79) tert-butylbenzene	13.441	119	36476	1.807	ug/l	95
80) 1,2,4-Trimethylbenzene	13.488	105	32908	1.469	ug/l	98
81) sec-Butylbenzene	13.617	105	44109	1.705	ug/l	99
82) p-Isopropyltoluene	13.735	119	32584	1.534	ug/l	92
83) 1,3-Dichlorobenzene	13.735	146	17504	1.533	ug/l	95
84) 1,4-Dichlorobenzene	13.817	146	14742	1.379	ug/l	97
85) n-Butylbenzene	14.059	91	19189	1.303	ug/l	97
86) Hexachloroethane	14.335	117	8808	2.275	ug/l	90
87) 1,2-Dichlorobenzene	14.112	146	17760	1.662	ug/l	96
88) 1,2-Dibromo-3-Chloropr...	14.729	75	2589	1.786	ug/l #	70
89) 1,2,4-Trichlorobenzene	15.400	180	3077	1.009	ug/l #	70
90) Hexachlorobutadiene	15.506	225	4183m	1.801	ug/l	
91) Naphthalene	15.641	128	11343	1.228	ug/l #	81
92) 1,2,3-Trichlorobenzene	15.847	180	3789	1.092	ug/l	54

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

