

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN040723\
 Data File : VN077280.D
 Acq On : 07 Apr 2023 16:55
 Operator : JC\MD
 Sample : 02213-08
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT2-2023

Quant Time: Apr 08 05:21:31 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N040723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Apr 07 13:04:49 2023
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By :John
 Carlone

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

Internal Standards						
1) Bromochloromethane	7.819	128	50212	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.101	114	394790	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.866	117	414735	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.578	65	131869	30.966	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	103.233%
60) 4-Bromofluorobenzene	12.854	95	200398	27.944	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	93.133%
63) Toluene-d8	10.571	98	448209	30.742	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	102.467%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.137	85	22555	4.725	ug/l	92
3) Chloromethane	2.372	50	34126	5.381	ug/l	95
4) Vinyl Chloride	2.519	62	49108	5.406	ug/l	94
5) Bromomethane	2.954	94	38988	5.696	ug/l	99
6) Chloroethane	3.125	64	42196	6.930	ug/l	95
7) Trichlorofluoromethane	3.507	101	43950	5.196	ug/l	99
8) Diethyl Ether	3.972	74	19706	5.466	ug/l	95
9) 1,1,2-Trichlorotrifluo...	4.378	101	28303m	5.351	ug/l	
10) 1,1-Dichloroethene	4.354	96	28594	5.404	ug/l	95
11) Methyl Iodide	4.595	142	28572m	4.780	ug/l	
12) Methyl Acetate	5.037	43	39106	4.961	ug/l #	87
13) Acrolein	4.184	56	28727m	29.359	ug/l	
14) Acrylonitrile	5.725	53	64674	24.002	ug/l	90
15) Acetone	4.437	58	24873m	25.445	ug/l	
16) Carbon Disulfide	4.725	76	72112	5.164	ug/l #	94
17) Allyl chloride	5.025	41	39483m	5.797	ug/l	
18) Methylene Chloride	5.284	84	34441	5.605	ug/l	98
19) trans-1,2-Dichloroethene	5.795	96	30692	5.335	ug/l	89
20) Diisopropyl ether	6.678	45	81002	4.990	ug/l	99
21) 1,1-Dichloroethane	6.572	63	53304	5.181	ug/l	97
22) cis-1,2-Dichloroethene	7.489	96	34419	4.908	ug/l	97
23) tert-Butyl Alcohol	5.537	59	29538	24.654	ug/l #	100
24) Methyl tert-Butyl Ether	5.801	73	95353	5.006	ug/l	97
25) Chloroform	7.972	83	56761	5.090	ug/l	99
26) Cyclohexane	8.260	56	45345	5.072	ug/l #	96
29) 1,1-Dichloropropene	8.372	75	40478	4.733	ug/l	97
30) 2-Butanone	7.489	43	90971	22.494	ug/l	97
31) 2,2-Dichloropropane	7.489	77	51099	4.867	ug/l #	72
32) 1,1,1-Trichloroethane	8.172	97	48168	4.577	ug/l	95
33) Carbon Tetrachloride	8.360	117	43720	4.867	ug/l	93
34) Benzene	8.613	78	132902	5.022	ug/l	95
35) Methacrylonitrile	7.789	41	18918	4.966	ug/l	93
36) 1,2-Dichloroethane	8.677	62	41839	5.043	ug/l	95
37) Trichloroethene	9.354	130	31662	4.892	ug/l	100
38) Methylcyclohexane	9.607	83	55805	4.811	ug/l	98
39) 1,2-Dichloropropane	9.624	63	33377	5.081	ug/l	92
40) Dibromomethane	9.707	93	22241	4.699	ug/l	95
41) Bromodichloromethane	9.889	83	46198	4.895	ug/l #	84
42) Vinyl Acetate	6.613	43	279135	23.848	ug/l #	100

04/10/2023
 Supervised By :Semsettin
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04/10/2023

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
43) Ethyl Acetate	7.572	43	38200	5.105	ug/l	#	91
44) Isopropyl Acetate	8.695	43	63169	4.715	ug/l	#	100
45) 1,4-Dioxane	9.701	88	13461	95.272	ug/l		98
46) Methyl methacrylate	9.689	41	26346	4.568	ug/l		91
47) n-amyl Acetate	12.495	43	51661	4.413	ug/l		99
48) t-1,3-Dichloropropene	10.836	75	47939	4.539	ug/l		99
49) cis-1,3-Dichloropropene	10.319	75	54405	4.842	ug/l		100
50) 1,1,2-Trichloroethane	11.019	97	31497	4.581	ug/l		93
51) Ethyl methacrylate	10.871	69	49912	4.728	ug/l		96
52) 1,3-Dichloropropane	11.166	76	52576	4.582	ug/l		98
53) Dibromochloromethane	11.366	129	34232	4.724	ug/l		98
54) 1,2-Dibromoethane	11.471	107	32502	4.709	ug/l		98
55) 2-Chloroethyl vinyl ether	10.166	63	65515	20.099	ug/l		97
56) Bromoform	12.577	173	20823	4.278	ug/l		98
58) 4-Methyl-2-Pentanone	10.442	43	188261	24.244	ug/l		99
59) 2-Hexanone	11.201	43	137819	22.961	ug/l		100
61) Tetrachloroethene	11.107	164	25133	5.095	ug/l		92
62) Toluene	10.630	91	145384	5.024	ug/l		99
64) Chlorobenzene	11.895	112	85266	4.850	ug/l		99
65) 1,1,1,2-Tetrachloroethane	11.966	131	30523	4.721	ug/l		95
66) Ethyl Benzene	11.966	91	157318	4.907	ug/l		97
67) m/p-Xylenes	12.071	106	120746	9.609	ug/l		99
68) o-Xylene	12.401	106	60209	4.789	ug/l		95
69) Styrene	12.418	104	93105	4.623	ug/l		97
70) Isopropylbenzene	12.701	105	152595	4.783	ug/l		98
71) 1,1,2,2-Tetrachloroethane	12.942	83	45585	4.666	ug/l		94
72) 1,2,3-Trichloropropane	12.995	75	40751m	6.136	ug/l		
73) Bromobenzene	12.983	156	31447	4.852	ug/l		92
74) n-propylbenzene	13.042	91	156659	4.438	ug/l		98
75) 2-Chlorotoluene	13.130	91	99191	4.691	ug/l		98
76) 1,3,5-Trimethylbenzene	13.177	105	114238	4.399	ug/l		99
77) t-1,4-Dichloro-2-butene	12.742	75	16071	4.751	ug/l		89
78) 4-Chlorotoluene	13.230	91	89047	4.457	ug/l		96
79) tert-butylbenzene	13.442	119	104650	4.631	ug/l		98
80) 1,2,4-Trimethylbenzene	13.489	105	106428	4.205	ug/l		100
81) sec-Butylbenzene	13.618	105	139981	4.337	ug/l		98
82) p-Isopropyltoluene	13.736	119	111161	4.299	ug/l		99
83) 1,3-Dichlorobenzene	13.736	146	52758	4.293	ug/l		98
84) 1,4-Dichlorobenzene	13.818	146	51584	4.326	ug/l		96
85) n-Butylbenzene	14.059	91	83887	3.926	ug/l		98
86) Hexachloroethane	14.336	117	24172	4.395	ug/l		98
87) 1,2-Dichlorobenzene	14.107	146	53296	4.426	ug/l		97
88) 1,2-Dibromo-3-Chloropr...	14.724	75	8013	4.280	ug/l		97
89) 1,2,4-Trichlorobenzene	15.365	180	14919	3.150	ug/l		98
90) Hexachlorobutadiene	15.471	225	11376	4.683	ug/l		97
91) Naphthalene	15.589	128	48407	2.675	ug/l		99
92) 1,2,3-Trichlorobenzene	15.759	180	16222	3.510	ug/l		84

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

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