

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080923\
 Data File : VN078812.D
 Acq On : 09 Aug 2023 11:19
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/10/2023
 Supervised By : Mahesh Dadoda 08/10/2023

Quant Time: Aug 10 05:21:33 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 09 05:05:47 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.818	128	31046	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	174472	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	151749	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.588	65	76796	30.725	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 102.400%			
60) 4-Bromofluorobenzene	12.853	95	66581	31.258	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 104.200%			
63) Toluene-d8	10.571	98	230553	31.004	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 103.333%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.136	85	45121	21.084	ug/l	93
3) Chloromethane	2.371	50	52459	20.586	ug/l	95
4) Vinyl Chloride	2.524	62	48595	20.040	ug/l #	87
5) Bromomethane	2.971	94	33919	19.229	ug/l	100
6) Chloroethane	3.136	64	31420	18.241	ug/l	90
7) Trichlorofluoromethane	3.506	101	68304	20.523	ug/l	94
8) Diethyl Ether	3.971	74	22876	19.330	ug/l	70
9) 1,1,2-Trichlorotrifluo...	4.383	101	38365	21.488	ug/l	94
10) 1,1-Dichloroethene	4.353	96	34582	20.001	ug/l	90
11) Methyl Iodide	4.600	142	45537	19.744	ug/l	92
12) Methyl Acetate	5.036	43	70938	18.877	ug/l	91
13) Acrolein	4.195	56	31836	79.984	ug/l	100
14) Acrylonitrile	5.730	53	97027m	97.986	ug/l	
15) Acetone	4.453	58	25761m	100.969	ug/l	
16) Carbon Disulfide	4.724	76	102960	20.571	ug/l	96
17) Allyl chloride	5.042	41	59151m	19.572	ug/l	
18) Methylene Chloride	5.289	84	44338	20.549	ug/l #	80
19) trans-1,2-Dichloroethene	5.789	96	37921	19.102	ug/l	95
20) Diisopropyl ether	6.677	45	142946	21.063	ug/l #	94
21) 1,1-Dichloroethane	6.577	63	80450	20.792	ug/l	96
22) cis-1,2-Dichloroethene	7.488	96	45031	20.465	ug/l	94
23) tert-Butyl Alcohol	5.524	59	33495m	91.031	ug/l	
24) Methyl tert-Butyl Ether	5.806	73	117250m	20.261	ug/l	
25) Chloroform	7.977	83	81205	21.140	ug/l	99
26) Cyclohexane	8.265	56	65602	21.526	ug/l #	87
29) 1,1-Dichloropropene	8.377	75	56577	19.960	ug/l	98
30) 2-Butanone	7.494	43	133005	95.734	ug/l	91
31) 2,2-Dichloropropane	7.500	77	61050	20.887	ug/l	98
32) 1,1,1-Trichloroethane	8.171	97	67840	20.323	ug/l	96
33) Carbon Tetrachloride	8.365	117	58003	20.133	ug/l	98
34) Benzene	8.612	78	176573	20.473	ug/l	98
35) Methacrylonitrile	7.788	41	29293	17.956	ug/l	82
36) 1,2-Dichloroethane	8.677	62	62329	20.673	ug/l	99
37) Trichloroethene	9.359	130	40107	19.325	ug/l	94
38) Methylcyclohexane	9.612	83	55221	20.577	ug/l	93
39) 1,2-Dichloropropane	9.624	63	46852	20.532	ug/l	91
40) Dibromomethane	9.712	93	30301	19.942	ug/l	100
41) Bromodichloromethane	9.894	83	62285	20.343	ug/l	98
42) Vinyl Acetate	6.618	43	438293	100.252	ug/l #	93

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
43) Ethyl Acetate	7.565	43	57644	19.987	ug/l	#	83
44) Isopropyl Acetate	8.694	43	95180	18.379	ug/l		91
45) 1,4-Dioxane	9.706	88	14039	404.055	ug/l	#	82
46) Methyl methacrylate	9.688	41	43335	19.761	ug/l		83
47) n-amyl Acetate	12.500	43	70862	19.572	ug/l		92
48) t-1,3-Dichloropropene	10.841	75	61367	19.850	ug/l		93
49) cis-1,3-Dichloropropene	10.318	75	71093	20.677	ug/l		93
50) 1,1,2-Trichloroethane	11.024	97	39117	18.946	ug/l		95
51) Ethyl methacrylate	10.882	69	56386	19.483	ug/l		82
52) 1,3-Dichloropropane	11.171	76	72319	20.399	ug/l		100
53) Dibromochloromethane	11.365	129	43380	20.131	ug/l		99
54) 1,2-Dibromoethane	11.476	107	40986	20.319	ug/l		100
55) 2-Chloroethyl vinyl ether	10.165	63	104289	97.713	ug/l		98
56) Bromoform	12.582	173	26207	19.427	ug/l		99
58) 4-Methyl-2-Pentanone	10.447	43	287579	98.594	ug/l	#	91
59) 2-Hexanone	11.200	43	196158	96.777	ug/l		90
61) Tetrachloroethene	11.106	164	38706	22.295	ug/l		89
62) Toluene	10.635	91	188080	21.052	ug/l		99
64) Chlorobenzene	11.894	112	106223	20.309	ug/l		95
65) 1,1,1,2-Tetrachloroethane	11.959	131	41882	20.784	ug/l		98
66) Ethyl Benzene	11.971	91	188454	20.311	ug/l		98
67) m/p-Xylenes	12.076	106	145772	42.847	ug/l		96
68) o-Xylene	12.406	106	70294	20.758	ug/l		99
69) Styrene	12.418	104	108662	21.000	ug/l		100
70) Isopropylbenzene	12.700	105	173495	20.742	ug/l		100
71) 1,1,2,2-Tetrachloroethane	12.941	83	57732	20.368	ug/l		97
72) 1,2,3-Trichloropropane	12.994	75	51665m	20.882	ug/l		
73) Bromobenzene	12.988	156	40089	20.053	ug/l		97
74) n-propylbenzene	13.041	91	191941	20.737	ug/l		98
75) 2-Chlorotoluene	13.129	91	118779	20.600	ug/l		98
76) 1,3,5-Trimethylbenzene	13.176	105	139419	20.986	ug/l		100
77) t-1,4-Dichloro-2-butene	12.741	75	15030	19.354	ug/l		83
78) 4-Chlorotoluene	13.229	91	109647	20.498	ug/l		100
79) tert-butylbenzene	13.441	119	111047	20.373	ug/l		93
80) 1,2,4-Trimethylbenzene	13.488	105	128829	20.550	ug/l		95
81) sec-Butylbenzene	13.623	105	150172	20.579	ug/l		98
82) p-Isopropyltoluene	13.735	119	115329	20.177	ug/l		99
83) 1,3-Dichlorobenzene	13.741	146	62906	20.361	ug/l		98
84) 1,4-Dichlorobenzene	13.817	146	61686	20.907	ug/l		98
85) n-Butylbenzene	14.065	91	80322	19.096	ug/l		97
86) Hexachloroethane	14.335	117	25481	21.163	ug/l		95
87) 1,2-Dichlorobenzene	14.112	146	63741	20.970	ug/l		93
88) 1,2-Dibromo-3-Chloropr...	14.729	75	7351	18.259	ug/l		95
89) 1,2,4-Trichlorobenzene	15.400	180	13683	16.264	ug/l		96
90) Hexachlorobutadiene	15.506	225	11611	18.746	ug/l		98
91) Naphthalene	15.647	128	38715	14.716	ug/l		98
92) 1,2,3-Trichlorobenzene	15.841	180	15994	16.209	ug/l		93

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

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