

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090821\
 Data File : VN068428.D
 Acq On : 8 Sep 2021 9:23
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda

9/10/2021 10:50:49 AM

Quant Time: Sep 09 03:29:55 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090321W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Sep 03 13:24:01 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.659	128	108024	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.971	114	571781	30.000	ug/l	# 0.00
57) Chlorobenzene-d5	11.747	117	512029	30.000	ug/l	# 0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.440	65	199410	31.137	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 103.800%	
60) 4-Bromofluorobenzene	12.733	95	217694	30.023	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 100.067%	
63) Toluene-d8	10.443	98	688843	30.210	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 100.700%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.078	85	107536	19.660	ug/l	100
3) Chloromethane	2.309	50	97403	19.682	ug/l	100
4) Vinyl Chloride	2.451	62	156376	21.206	ug/l	95
5) Bromomethane	2.864	94	159267	23.554	ug/l	90
6) Chloroethane	3.027	64	115135	21.886	ug/l	# 89
7) Trichlorofluoromethane	3.384	101	204862	20.311	ug/l	94
8) Diethyl Ether	3.829	74	62140	19.394	ug/l	74
9) 1,1,2-Trichlorotrifluo...	4.221	101	113890	19.860	ug/l	84
10) 1,1-Dichloroethene	4.191	96	104185	19.335	ug/l	# 78
11) Methyl Iodide	4.433	142	154658	17.841	ug/l	89
12) Methyl Acetate	4.859	43	107869m	19.890	ug/l	
13) Acrolein	4.049	56	48507	99.791	ug/l	100
14) Acrylonitrile	5.559	53	216490	98.442	ug/l	98
15) Acetone	4.288	58	96839	149.819	ug/l	72
16) Carbon Disulfide	4.540	76	268677	19.082	ug/l	99
17) Allyl chloride	4.851	41	132405	20.061	ug/l	91
18) Methylene Chloride	5.103	84	116261	19.715	ug/l	# 82
19) trans-1,2-Dichloroethene	5.605	96	115238	19.186	ug/l	# 76
20) Diisopropyl ether	6.503	45	289629	20.079	ug/l	# 92
21) 1,1-Dichloroethane	6.391	63	189649	19.881	ug/l	95
22) cis-1,2-Dichloroethene	7.329	96	136180	19.513	ug/l	# 79
23) tert-Butyl Alcohol	5.366	59	83914	103.959	ug/l	# 100
24) Methyl tert-Butyl Ether	5.618	73	346849	19.813	ug/l	# 87
25) Chloroform	7.820	83	224068	19.998	ug/l	99
26) Cyclohexane	8.099	56	166686	19.947	ug/l	# 77
29) 1,1-Dichloropropene	8.225	75	159556	19.452	ug/l	91
30) 2-Butanone	7.337	43	326619	111.292	ug/l	# 88
31) 2,2-Dichloropropane	7.329	77	185061	19.811	ug/l	91
32) 1,1,1-Trichloroethane	8.019	97	212043	19.682	ug/l	92
33) Carbon Tetrachloride	8.212	117	193721	19.462	ug/l	94
34) Benzene	8.464	78	476168	19.639	ug/l	# 93
35) Methacrylonitrile	7.640	41	53764	18.752	ug/l	88
36) 1,2-Dichloroethane	8.531	62	158892	19.572	ug/l	# 93
37) Trichloroethene	9.220	130	150646	19.438	ug/l	# 76
38) Methylcyclohexane	9.464	83	203022	19.066	ug/l	85
39) 1,2-Dichloropropane	9.491	63	110926	19.298	ug/l	99
40) Dibromomethane	9.579	93	91175	20.045	ug/l	78
41) Bromodichloromethane	9.765	83	173852	19.783	ug/l	98
42) Vinyl Acetate	6.436	43	1067420	96.166	ug/l	# 91

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.412	43	116616	19.982	ug/l #	72
44) Isopropyl Acetate	8.563	43	207779	19.598	ug/l	91
45) 1,4-Dioxane	9.571	88	39019	411.717	ug/l #	85
46) Methyl methacrylate	9.563	41	81597	18.203	ug/l	84
47) n-amyl Acetate	12.390	43	127672	17.600	ug/l #	90
48) t-1,3-Dichloropropene	10.719	75	166870	19.294	ug/l	99
49) cis-1,3-Dichloropropene	10.191	75	182988	19.183	ug/l #	84
50) 1,1,2-Trichloroethane	10.899	97	126662	19.739	ug/l	94
51) Ethyl methacrylate	10.762	69	155863	18.892	ug/l	82
52) 1,3-Dichloropropane	11.047	76	191393	19.755	ug/l	99
53) Dibromochloromethane	11.240	129	148422	19.193	ug/l	100
54) 1,2-Dibromoethane	11.347	107	129960	19.376	ug/l	100
55) 2-Chloroethyl vinyl ether	10.043	63	43697	86.073	ug/l #	91
56) Bromoform	12.460	173	102364	17.298	ug/l #	100
58) 4-Methyl-2-Pentanone	10.330	43	595795	99.994	ug/l #	89
59) 2-Hexanone	11.087	43	435648	105.358	ug/l	88
61) Tetrachloroethene	10.979	164	152140	19.218	ug/l	90
62) Toluene	10.507	91	551326	19.624	ug/l	100
64) Chlorobenzene	11.773	112	348650	19.249	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.843	131	142738	19.682	ug/l	98
66) Ethyl Benzene	11.846	91	590933	19.541	ug/l	93
67) m/p-Xylenes	11.956	106	482558	38.916	ug/l	78
68) o-Xylene	12.283	106	233571	19.447	ug/l	77
69) Styrene	12.296	104	353097m	18.621	ug/l	
70) Isopropylbenzene	12.581	105	591147	19.109	ug/l	93
71) 1,1,2,2-Tetrachloroethane	12.830	83	156480	19.779	ug/l	97
72) 1,2,3-Trichloropropane	12.884	75	122792m	18.933	ug/l	
73) Bromobenzene	12.862	156	154741	18.074	ug/l	54
74) n-propylbenzene	12.921	91	642188	19.218	ug/l	89
75) 2-Chlorotoluene	13.010	91	379633	19.144	ug/l #	100
76) 1,3,5-Trimethylbenzene	13.061	105	492772	19.253	ug/l	90
77) t-1,4-Dichloro-2-butene	12.626	75	35710	18.161	ug/l	88
78) 4-Chlorotoluene	13.106	91	373904	19.230	ug/l	82
79) tert-butylbenzene	13.326	119	449158	19.196	ug/l	81
80) 1,2,4-Trimethylbenzene	13.372	105	477722m	19.216	ug/l	
81) sec-Butylbenzene	13.503	105	595168	18.947	ug/l	90
82) p-Isopropyltoluene	13.619	119	505963	18.717	ug/l	90
83) 1,3-Dichlorobenzene	13.616	146	280397	18.547	ug/l	90
84) 1,4-Dichlorobenzene	13.696	146	263351	18.069	ug/l	92
85) n-Butylbenzene	13.943	91	349965	17.363	ug/l	95
86) Hexachloroethane	14.211	117	87581	19.153	ug/l	78
87) 1,2-Dichlorobenzene	13.991	146	270002	18.789	ug/l	91
88) 1,2-Dibromo-3-Chloropr...	14.603	75	26634	19.451	ug/l #	40
89) 1,2,4-Trichlorobenzene	15.265	180	118857	15.398	ug/l	96
90) Hexachlorobutadiene	15.373	225	80631	17.774	ug/l	96
91) Naphthalene	15.507	128	230872	14.149	ug/l	98
92) 1,2,3-Trichlorobenzene	15.702	180	111876	15.238	ug/l	97

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

