

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090321\
 Data File : VN068403.D
 Acq On : 3 Sep 2021 12:33
 Operator : JC/MD
 Sample : VSTDIC150
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Manual Integrations
 APPROVED

MMDadoda
 9/7/2021 4:39:07 PM

Quant Time: Sep 03 13:04:51 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090321W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Sep 03 13:01:16 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.659	128	135918	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.971	114	694733	30.000	ug/l	# 0.00
57) Chlorobenzene-d5	11.747	117	639331	30.000	ug/l	# 0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.440	65	228803	22.563	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	75.200%	#	
60) 4-Bromofluorobenzene	12.731	95	276087	27.432	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	91.433%		
63) Toluene-d8	10.443	98	817013	27.979	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	93.267%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.075	85	1037909	144.666	ug/l	97
3) Chloromethane	2.306	50	866118	103.938	ug/l	99
4) Vinyl Chloride	2.445	62	1274150	99.759	ug/l	95
5) Bromomethane	2.821	94	1012955	93.283	ug/l	91
6) Chloroethane	2.993	64	903360m	97.534	ug/l	
7) Trichlorofluoromethane	3.365	101	1831191	80.679	ug/l	97
8) Diethyl Ether	3.827	74	604193	131.396	ug/l	74
9) 1,1,2-Trichlorotrifluo...	4.213	101	1061413	143.011	ug/l	77
10) 1,1-Dichloroethene	4.183	96	1014793	146.133	ug/l	# 73
11) Methyl Iodide	4.427	142	1757150	186.959	ug/l	85
12) Methyl Acetate	4.854	43	948818m	107.519	ug/l	
13) Acrolein	4.044	56	452343	454.184	ug/l	98
14) Acrylonitrile	5.554	53	1981374	525.248	ug/l	99
15) Acetone	4.288	58	561634m	528.154	ug/l	
16) Carbon Disulfide	4.535	76	2568590	139.380	ug/l	99
17) Allyl chloride	4.843	41	1218897m	109.139	ug/l	
18) Methylene Chloride	5.098	84	1030699	118.298	ug/l	# 79
19) trans-1,2-Dichloroethene	5.599	96	1103828	137.341	ug/l	# 72
20) Diisopropyl ether	6.498	45	2507258	96.368	ug/l	# 91
21) 1,1-Dichloroethane	6.391	63	1690228	114.813	ug/l	94
22) cis-1,2-Dichloroethene	7.327	96	1291308m	134.022	ug/l	
23) tert-Butyl Alcohol	5.374	59	751509	511.815	ug/l	# 100
24) Methyl tert-Butyl Ether	5.616	73	3224644m	120.744	ug/l	
25) Chloroform	7.820	83	1981284	120.535	ug/l	99
26) Cyclohexane	8.099	56	1502094	116.006	ug/l	# 74
29) 1,1-Dichloropropene	8.225	75	1438726	131.791	ug/l	90
30) 2-Butanone	7.335	43	2503781	509.227	ug/l	# 85
31) 2,2-Dichloropropane	7.327	77	1655388	131.548	ug/l	# 90
32) 1,1,1-Trichloroethane	8.019	97	1905239	139.636	ug/l	# 91
33) Carbon Tetrachloride	8.209	117	1803466	152.647	ug/l	96
34) Benzene	8.464	78	4199601	128.389	ug/l	# 89
35) Methacrylonitrile	7.638	41	504052	100.452	ug/l	83
36) 1,2-Dichloroethane	8.531	62	1383442	117.989	ug/l	# 92
37) Trichloroethene	9.217	130	1408185	158.063	ug/l	# 72
38) Methylcyclohexane	9.461	83	1946110	154.039	ug/l	82
39) 1,2-Dichloropropane	9.491	63	985041	121.064	ug/l	97
40) Dibromomethane	9.579	93	796424	131.088	ug/l	67
41) Bromodichloromethane	9.765	83	1564437	132.944	ug/l	# 98
42) Vinyl Acetate	6.436	43	9860643	499.712	ug/l	# 87

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.412	43	1018424	99.379	ug/l #	67
44) Isopropyl Acetate	8.563	43	1846045	104.520	ug/l #	88
45) 1,4-Dioxane	9.571	88	356536	2558.098	ug/l #	84
46) Methyl methacrylate	9.561	41	822012	106.185	ug/l	80
47) n-amyl Acetate	12.388	43	1390019	96.625	ug/l	93
48) t-1,3-Dichloropropene	10.719	75	1604011	126.558	ug/l	98
49) cis-1,3-Dichloropropene	10.191	75	1753779	131.264	ug/l #	82
50) 1,1,2-Trichloroethane	10.899	97	1122590	130.921	ug/l	94
51) Ethyl methacrylate	10.762	69	1531504	118.269	ug/l	80
52) 1,3-Dichloropropane	11.047	76	1680102	120.764	ug/l	98
53) Dibromochloromethane	11.240	129	1447628	153.830	ug/l	99
54) 1,2-Dibromoethane	11.347	107	1209102	135.759	ug/l	99
55) 2-Chloroethyl vinyl ether	10.043	63	943736	384.306	ug/l #	91
56) Bromoform	12.460	173	1172765	173.703	ug/l #	100
58) 4-Methyl-2-Pentanone	10.333	43	5260678	502.415	ug/l #	86
59) 2-Hexanone	11.087	43	3622226	490.414	ug/l #	86
61) Tetrachloroethene	10.979	164	1405344	164.137	ug/l #	87
62) Toluene	10.507	91	4966481	131.519	ug/l	99
64) Chlorobenzene	11.771	112	3290034	142.627	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.843	131	1338903	151.848	ug/l	99
66) Ethyl Benzene	11.846	91	5545128	133.191	ug/l	91
67) m/p-Xylenes	11.956	106	4578077	282.963	ug/l	76
68) o-Xylene	12.283	106	2256909	141.677	ug/l	76
69) Styrene	12.296	104	3664287m	141.676	ug/l	
70) Isopropylbenzene	12.581	105	5760965	140.265	ug/l	93
71) 1,1,2,2-Tetrachloroethane	12.830	83	1396155	121.857	ug/l	98
72) 1,2,3-Trichloropropane	12.881	75	1080895m	112.345	ug/l	
73) Bromobenzene	12.862	156	1628228	165.657	ug/l	48
74) n-propylbenzene	12.921	91	6272058	135.811	ug/l	87
75) 2-Chlorotoluene	13.010	91	3638315	131.254	ug/l #	100
76) 1,3,5-Trimethylbenzene	13.061	105	4751350	139.544	ug/l	90
77) t-1,4-Dichloro-2-butene	12.626	75	405437	124.761	ug/l	83
78) 4-Chlorotoluene	13.106	91	3605677	132.177	ug/l	81
79) tert-butylbenzene	13.326	119	4415170	151.021	ug/l	80
80) 1,2,4-Trimethylbenzene	13.369	105	4673826m	139.926	ug/l	
81) sec-Butylbenzene	13.503	105	5943191	148.076	ug/l	89
82) p-Isopropyltoluene	13.616	119	5256487	155.317	ug/l	89
83) 1,3-Dichlorobenzene	13.616	146	2868461	157.784	ug/l	90
84) 1,4-Dichlorobenzene	13.694	146	2780267	158.754	ug/l	91
85) n-Butylbenzene	13.943	91	4008911	147.903	ug/l	94
86) Hexachloroethane	14.211	117	902082	155.221	ug/l #	56
87) 1,2-Dichlorobenzene	13.989	146	2686191	156.367	ug/l	91
88) 1,2-Dibromo-3-Chloropr...	14.603	75	261729	127.933	ug/l #	13
89) 1,2,4-Trichlorobenzene	15.265	180	1659693m	203.125	ug/l	
90) Hexachlorobutadiene	15.370	225	886548	217.468	ug/l	97
91) Naphthalene	15.507	128	3495614	165.488	ug/l	99
92) 1,2,3-Trichlorobenzene	15.700	180	1528519	197.280	ug/l	94

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

