



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Limit [dBm]	Verdict
			MCH	VN	50	-4.32	-0.00233	±2.5	PASS
					-30	-3.71	-0.00197	±2.5	PASS
					-20	-9.13	-0.00486	±2.5	PASS
					-10	-3.83	-0.00204	±2.5	PASS
					0	-9.96	-0.0053	±2.5	PASS
					10	-4.76	-0.00253	±2.5	PASS
					20	-6.49	-0.00345	±2.5	PASS
					30	-3.40	-0.00181	±2.5	PASS
					40	-11.13	-0.00592	±2.5	PASS
					50	3.15	0.00168	±2.5	PASS
			HCH	VN	-30	2.92	0.00153	±2.5	PASS
					-20	-14.73	-0.00772	±2.5	PASS
					-10	-9.53	-0.00499	±2.5	PASS
					0	-1.60	-0.00084	±2.5	PASS
					10	-6.37	-0.00334	±2.5	PASS
					20	-10.70	-0.00561	±2.5	PASS
					30	-0.94	-0.00049	±2.5	PASS
					40	-15.38	-0.00806	±2.5	PASS
					50	-1.12	-0.00059	±2.5	PASS
					5	LCH	VN	-30	-6.68
		-20	-4.79	-0.00259				±2.5	PASS
		-10	4.55	0.00246				±2.5	PASS
		0	-7.17	-0.00387				±2.5	PASS
		10	7.04	0.0038				±2.5	PASS
		20	-3.02	-0.00163				±2.5	PASS
		30	-9.43	-0.00509				±2.5	PASS
		40	3.19	0.00172				±2.5	PASS
		50	-7.10	-0.00383				±2.5	PASS
		MCH	VN	-30				-1.27	-0.00068
				-20		-4.46	-0.00237	±2.5	PASS
				-10		-10.99	-0.00585	±2.5	PASS
				0		-13.98	-0.00744	±2.5	PASS
				10		-17.95	-0.00955	±2.5	PASS
				20		-0.80	-0.00043	±2.5	PASS
				30		-8.38	-0.00446	±2.5	PASS
				40		-14.26	-0.00759	±2.5	PASS
				50		-4.49	-0.00239	±2.5	PASS
				HCH		VN	-30	-4.65	-0.00244
		-20	-13.09				-0.00686	±2.5	PASS



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Limit [dBm]	Verdict
					-10	5.91	0.0031	±2.5	PASS
					0	-2.17	-0.00114	±2.5	PASS
					10	-12.93	-0.00678	±2.5	PASS
					20	2.03	0.00106	±2.5	PASS
					30	-8.13	-0.00426	±2.5	PASS
					40	-6.58	-0.00345	±2.5	PASS
					50	-1.29	-0.00068	±2.5	PASS
		10	LCH	VN	-30	-0.33	-0.00018	±2.5	PASS
					-20	2.80	0.00151	±2.5	PASS
					-10	-3.62	-0.00195	±2.5	PASS
					0	-9.04	-0.00487	±2.5	PASS
					10	-13.19	-0.00711	±2.5	PASS
					20	7.15	0.00385	±2.5	PASS
					30	1.07	0.00058	±2.5	PASS
					40	-5.89	-0.00318	±2.5	PASS
					50	-13.90	-0.00749	±2.5	PASS
			MCH	VN	-30	0.72	0.00038	±2.5	PASS
					-20	-3.35	-0.00178	±2.5	PASS
					-10	-6.88	-0.00366	±2.5	PASS
					0	-9.54	-0.00507	±2.5	PASS
					10	-11.49	-0.00611	±2.5	PASS
					20	-15.66	-0.00833	±2.5	PASS
					30	-7.54	-0.00401	±2.5	PASS
					40	0.86	0.00046	±2.5	PASS
			HCH	VN	-30	11.09	0.00582	±2.5	PASS
					-20	6.51	0.00342	±2.5	PASS
					-10	1.73	0.00091	±2.5	PASS
					0	-4.06	-0.00213	±2.5	PASS
		10			-7.12	-0.00374	±2.5	PASS	
		20			-7.40	-0.00388	±2.5	PASS	
		30			6.97	0.00366	±2.5	PASS	
		15	LCH	VN	-30	23.72	0.01277	±2.5	PASS
					-20	13.39	0.00721	±2.5	PASS
-10	11.12				0.00599	±2.5	PASS		
0	18.75				0.01009	±2.5	PASS		
10	18.11				0.00975	±2.5	PASS		



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Limit [dBm]	Verdict
					20	12.89	0.00694	±2.5	PASS
					30	-10.31	-0.00555	±2.5	PASS
					40	3.23	0.00174	±2.5	PASS
					50	12.63	0.0068	±2.5	PASS
			MCH	VN	-30	4.48	0.00238	±2.5	PASS
					-20	-6.52	-0.00347	±2.5	PASS
					-10	-15.42	-0.0082	±2.5	PASS
					0	3.98	0.00212	±2.5	PASS
					10	-5.29	-0.00281	±2.5	PASS
					20	-12.57	-0.00669	±2.5	PASS
					30	-7.47	-0.00397	±2.5	PASS
					40	-8.07	-0.00429	±2.5	PASS
			HCH	VN	-30	-15.38	-0.00808	±2.5	PASS
					-20	-16.34	-0.00859	±2.5	PASS
					-10	-17.07	-0.00897	±2.5	PASS
					0	-13.32	-0.007	±2.5	PASS
					10	-15.03	-0.0079	±2.5	PASS
					20	-2.79	-0.00147	±2.5	PASS
					30	-7.57	-0.00398	±2.5	PASS
					40	-8.71	-0.00458	±2.5	PASS
		20	LCH	VN	-30	5.88	0.00316	±2.5	PASS
					-20	1.27	0.00068	±2.5	PASS
					-10	-4.81	-0.00259	±2.5	PASS
					0	-7.27	-0.00391	±2.5	PASS
					10	-0.24	-0.00013	±2.5	PASS
					20	0.43	0.00023	±2.5	PASS
					30	3.32	0.00178	±2.5	PASS
					40	8.74	0.0047	±2.5	PASS
			MCH	VN	-30	-6.61	-0.00352	±2.5	PASS
					-20	-8.84	-0.0047	±2.5	PASS
					-10	6.28	0.00334	±2.5	PASS
					0	2.83	0.00151	±2.5	PASS
					10	6.25	0.00332	±2.5	PASS
					20	3.13	0.00166	±2.5	PASS
					30	6.34	0.00337	±2.5	PASS
					40	6.04	0.00321	±2.5	PASS



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Limit [dBm]	Verdict	
			HCH	VN	50	5.75	0.00306	±2.5	PASS	
					-30	0.04	0.00002	±2.5	PASS	
					-20	5.94	0.00313	±2.5	PASS	
					-10	4.45	0.00234	±2.5	PASS	
					0	-0.37	-0.00019	±2.5	PASS	
					10	-3.40	-0.00179	±2.5	PASS	
					20	-3.69	-0.00194	±2.5	PASS	
					30	-3.60	-0.00189	±2.5	PASS	
					40	-3.22	-0.00169	±2.5	PASS	
	50	-4.08	-0.00215	±2.5	PASS					
		LTE/TM2	1.4	LCH	VN	-30	-2.06	-0.00111	±2.5	PASS
						-20	3.33	0.0018	±2.5	PASS
						-10	9.24	0.00499	±2.5	PASS
						0	-7.25	-0.00392	±2.5	PASS
						10	-6.61	-0.00357	±2.5	PASS
						20	-3.59	-0.00194	±2.5	PASS
						30	3.19	0.00172	±2.5	PASS
						40	6.61	0.00357	±2.5	PASS
						50	-2.95	-0.00159	±2.5	PASS
				MCH	VN	-30	-4.88	-0.0026	±2.5	PASS
						-20	0.17	0.00009	±2.5	PASS
						-10	-7.24	-0.00385	±2.5	PASS
						0	-6.35	-0.00338	±2.5	PASS
						10	-14.69	-0.00781	±2.5	PASS
						20	-13.20	-0.00702	±2.5	PASS
						30	-9.47	-0.00504	±2.5	PASS
						40	-6.98	-0.00371	±2.5	PASS
						50	-2.03	-0.00108	±2.5	PASS
			HCH	VN	-30	5.32	0.00279	±2.5	PASS	
					-20	-4.72	-0.00247	±2.5	PASS	
					-10	-14.19	-0.00743	±2.5	PASS	
					0	0.47	0.00025	±2.5	PASS	
10					0.06	0.00003	±2.5	PASS		
20					4.39	0.0023	±2.5	PASS		
30					1.57	0.00082	±2.5	PASS		
40					-7.81	-0.00409	±2.5	PASS		
50					-7.40	-0.00388	±2.5	PASS		
3	LCH	VN	-30	-7.34	-0.00396	±2.5	PASS			
			-20	-0.62	-0.00033	±2.5	PASS			



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		5			-10	-9.61	-0.00519	±2.5	PASS
					0	-16.95	-0.00915	±2.5	PASS
					10	-0.80	-0.00043	±2.5	PASS
					20	-13.19	-0.00712	±2.5	PASS
					30	-17.81	-0.00962	±2.5	PASS
					40	-0.51	-0.00028	±2.5	PASS
					50	-8.50	-0.00459	±2.5	PASS
			MCH	VN	-30	-5.55	-0.00295	±2.5	PASS
					-20	-14.79	-0.00787	±2.5	PASS
					-10	5.28	0.00281	±2.5	PASS
					0	0.00	0	±2.5	PASS
					10	-4.48	-0.00238	±2.5	PASS
					20	-6.21	-0.0033	±2.5	PASS
					30	-8.35	-0.00444	±2.5	PASS
					40	-11.06	-0.00588	±2.5	PASS
			HCH	VN	-30	-10.37	-0.00543	±2.5	PASS
					-20	-12.42	-0.00651	±2.5	PASS
					-10	1.09	0.00057	±2.5	PASS
					0	-8.81	-0.00462	±2.5	PASS
					10	-12.57	-0.00659	±2.5	PASS
					20	-17.52	-0.00918	±2.5	PASS
					30	-0.56	-0.00029	±2.5	PASS
					40	-0.31	-0.00016	±2.5	PASS
			LCH	VN	-30	-2.17	-0.00117	±2.5	PASS
					-20	-5.29	-0.00286	±2.5	PASS
					-10	-6.68	-0.00361	±2.5	PASS
					0	-8.24	-0.00445	±2.5	PASS
					10	-8.71	-0.0047	±2.5	PASS
					20	-8.65	-0.00467	±2.5	PASS
					30	-8.43	-0.00455	±2.5	PASS
					40	-12.17	-0.00657	±2.5	PASS
			MCH	VN	-30	-15.41	-0.0082	±2.5	PASS
					-20	-3.91	-0.00208	±2.5	PASS
					-10	-0.07	-0.00004	±2.5	PASS
					0	3.55	0.00189	±2.5	PASS
					10	-4.16	-0.00221	±2.5	PASS



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		10			20	-0.51	-0.00027	±2.5	PASS		
					30	4.11	0.00219	±2.5	PASS		
					40	2.80	0.00149	±2.5	PASS		
					50	1.73	0.00092	±2.5	PASS		
			HCH	VN	-30	-10.21	-0.00535	±2.5	PASS		
					-20	-4.65	-0.00244	±2.5	PASS		
					-10	7.01	0.00367	±2.5	PASS		
					0	5.19	0.00272	±2.5	PASS		
					10	2.33	0.00122	±2.5	PASS		
					20	-1.90	-0.001	±2.5	PASS		
					30	-6.14	-0.00322	±2.5	PASS		
					40	-9.53	-0.005	±2.5	PASS		
					50	-12.80	-0.00671	±2.5	PASS		
					LCH	VN	-30	-16.19	-0.00873	±2.5	PASS
							-20	-6.71	-0.00362	±2.5	PASS
							-10	-13.62	-0.00734	±2.5	PASS
			0	-14.95			-0.00806	±2.5	PASS		
			10	-12.37			-0.00667	±2.5	PASS		
			20	-13.60			-0.00733	±2.5	PASS		
			30	-15.42			-0.00831	±2.5	PASS		
		40	-8.53	-0.0046			±2.5	PASS			
		MCH	VN	50	-0.07	-0.00004	±2.5	PASS			
				-30	-10.79	-0.00574	±2.5	PASS			
				-20	-16.21	-0.00862	±2.5	PASS			
				-10	-18.31	-0.00974	±2.5	PASS			
				0	-6.55	-0.00348	±2.5	PASS			
				10	-9.71	-0.00516	±2.5	PASS			
				20	-6.95	-0.0037	±2.5	PASS			
				30	-14.29	-0.0076	±2.5	PASS			
		HCH	VN	40	-9.16	-0.00487	±2.5	PASS			
				50	-8.27	-0.0044	±2.5	PASS			
				-30	-1.52	-0.0008	±2.5	PASS			
				-20	-1.95	-0.00102	±2.5	PASS			
				-10	-5.05	-0.00265	±2.5	PASS			
				0	-7.54	-0.00396	±2.5	PASS			
				10	-7.02	-0.00369	±2.5	PASS			
				20	-6.32	-0.00332	±2.5	PASS			
		30	-9.18	-0.00482	±2.5	PASS					
		40	-12.13	-0.00637	±2.5	PASS					



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		15	LCH	VN	50	-12.00	-0.0063	±2.5	PASS
					-30	-4.56	-0.00245	±2.5	PASS
					-20	-13.15	-0.00708	±2.5	PASS
					-10	-20.21	-0.01088	±2.5	PASS
					0	1.72	0.00093	±2.5	PASS
					10	2.29	0.00123	±2.5	PASS
					20	6.51	0.0035	±2.5	PASS
					30	-13.68	-0.00736	±2.5	PASS
					40	15.89	0.00855	±2.5	PASS
			50	58.39	0.03143	±2.5	PASS		
			MCH	VN	-30	-6.94	-0.00369	±2.5	PASS
					-20	2.53	0.00135	±2.5	PASS
					-10	-3.13	-0.00166	±2.5	PASS
					0	-10.24	-0.00545	±2.5	PASS
					10	-14.86	-0.0079	±2.5	PASS
					20	-15.39	-0.00819	±2.5	PASS
					30	2.55	0.00136	±2.5	PASS
					40	-0.06	-0.00003	±2.5	PASS
					50	-1.42	-0.00076	±2.5	PASS
			HCH	VN	-30	-2.72	-0.00143	±2.5	PASS
					-20	-4.71	-0.00248	±2.5	PASS
		-10			-3.36	-0.00177	±2.5	PASS	
		0			-2.50	-0.00131	±2.5	PASS	
		10			-3.16	-0.00166	±2.5	PASS	
		20			-5.56	-0.00292	±2.5	PASS	
		30			-6.48	-0.00341	±2.5	PASS	
		40			-6.39	-0.00336	±2.5	PASS	
		50			-8.07	-0.00424	±2.5	PASS	
		20	LCH	VN	-30	-5.62	-0.00302	±2.5	PASS
					-20	8.24	0.00443	±2.5	PASS
					-10	6.87	0.00369	±2.5	PASS
					0	5.79	0.00311	±2.5	PASS
					10	5.66	0.00304	±2.5	PASS
					20	4.59	0.00247	±2.5	PASS
					30	-0.49	-0.00026	±2.5	PASS
					40	0.03	0.00002	±2.5	PASS
					50	0.93	0.0005	±2.5	PASS
			MCH	VN	-30	-25.26	-0.01344	±2.5	PASS
					-20	-24.09	-0.01281	±2.5	PASS



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					-10	-5.85	-0.00311	±2.5	PASS					
					0	-8.40	-0.00447	±2.5	PASS					
					10	-9.53	-0.00507	±2.5	PASS					
					20	-13.33	-0.00709	±2.5	PASS					
					30	-14.23	-0.00757	±2.5	PASS					
					40	-17.05	-0.00907	±2.5	PASS					
					50	-20.66	-0.01099	±2.5	PASS					
			HCH	VN	-30	-13.55	-0.00713	±2.5	PASS					
					-20	-6.25	-0.00329	±2.5	PASS					
					-10	0.23	0.00012	±2.5	PASS					
					0	-0.39	-0.00021	±2.5	PASS					
					10	0.62	0.00033	±2.5	PASS					
					20	1.27	0.00067	±2.5	PASS					
					30	1.57	0.00083	±2.5	PASS					
					40	2.55	0.00134	±2.5	PASS					
					50	1.46	0.00077	±2.5	PASS					
					BAND5	LTE/TM1	1.4	LCH	VN	-30	-1.46	-0.00177	±2.5	PASS
										-20	-1.07	-0.0013	±2.5	PASS
-10	-1.46	-0.00177	±2.5	PASS										
0	-0.73	-0.00089	±2.5	PASS										
10	-1.04	-0.00126	±2.5	PASS										
20	-1.87	-0.00227	±2.5	PASS										
30	-0.80	-0.00097	±2.5	PASS										
40	-0.84	-0.00102	±2.5	PASS										
50	-0.94	-0.00114	±2.5	PASS										
MCH	VN	-30	2.92	0.00349				±2.5	PASS					
		-20	0.10	0.00012				±2.5	PASS					
		-10	0.80	0.00096				±2.5	PASS					
		0	0.62	0.00074				±2.5	PASS					
		10	-0.37	-0.00044				±2.5	PASS					
		20	0.79	0.00094				±2.5	PASS					
		30	0.43	0.00051				±2.5	PASS					
		40	1.54	0.00184				±2.5	PASS					
50	-0.64	-0.00077	±2.5	PASS										
HCH	VN	-30	-1.42	-0.00167				±2.5	PASS					
		-20	-0.72	-0.00085				±2.5	PASS					
		-10	-2.16	-0.00255				±2.5	PASS					
		0	-0.93	-0.0011				±2.5	PASS					
		10	-1.42	-0.00167				±2.5	PASS					



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					20	-0.46	-0.00054	±2.5	PASS		
					30	-1.67	-0.00197	±2.5	PASS		
					40	-2.80	-0.0033	±2.5	PASS		
					50	-1.34	-0.00158	±2.5	PASS		
		3	LCH	VN	-30	-1.42	-0.00172	±2.5	PASS		
					-20	-2.80	-0.00339	±2.5	PASS		
					-10	-2.63	-0.00319	±2.5	PASS		
					0	-1.04	-0.00126	±2.5	PASS		
					10	-3.20	-0.00388	±2.5	PASS		
					20	-1.46	-0.00177	±2.5	PASS		
					30	-2.60	-0.00315	±2.5	PASS		
					40	-2.65	-0.00321	±2.5	PASS		
					50	-3.03	-0.00367	±2.5	PASS		
					MCH	VN	-30	0.04	0.00005	±2.5	PASS
							-20	-0.44	-0.00053	±2.5	PASS
							-10	1.43	0.00171	±2.5	PASS
							0	1.26	0.00151	±2.5	PASS
							10	0.01	0.00001	±2.5	PASS
							20	-0.09	-0.00011	±2.5	PASS
							30	0.07	0.00008	±2.5	PASS
		40	1.33	0.00159			±2.5	PASS			
		HCH	VN	-30	-0.26	-0.00031	±2.5	PASS			
				-20	-2.25	-0.00265	±2.5	PASS			
				-10	-1.83	-0.00216	±2.5	PASS			
				0	-1.06	-0.00125	±2.5	PASS			
				10	-0.86	-0.00101	±2.5	PASS			
				20	-3.00	-0.00354	±2.5	PASS			
				30	-1.27	-0.0015	±2.5	PASS			
				40	-1.57	-0.00185	±2.5	PASS			
		5	LCH	VN	-30	-0.17	-0.00021	±2.5	PASS		
					-20	0.63	0.00076	±2.5	PASS		
					-10	-1.53	-0.00185	±2.5	PASS		
0	-0.77				-0.00093	±2.5	PASS				
10	-1.02				-0.00123	±2.5	PASS				
20	-0.60				-0.00073	±2.5	PASS				
30	-0.90				-0.00109	±2.5	PASS				
40	-0.99				-0.0012	±2.5	PASS				



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Limit [dBm]	Verdict
			MCH	VN	50	-2.47	-0.00299	±2.5	PASS
					-30	-0.43	-0.00051	±2.5	PASS
					-20	0.17	0.0002	±2.5	PASS
					-10	-0.99	-0.00118	±2.5	PASS
					0	-0.41	-0.00049	±2.5	PASS
					10	-0.89	-0.00106	±2.5	PASS
					20	-0.54	-0.00065	±2.5	PASS
					30	-1.49	-0.00178	±2.5	PASS
					40	0.13	0.00016	±2.5	PASS
			50	0.17	0.0002	±2.5	PASS		
			HCH	VN	-30	-1.46	-0.00172	±2.5	PASS
					-20	-2.46	-0.00291	±2.5	PASS
					-10	-0.30	-0.00035	±2.5	PASS
					0	-3.60	-0.00425	±2.5	PASS
					10	-2.52	-0.00298	±2.5	PASS
					20	-2.93	-0.00346	±2.5	PASS
					30	-1.54	-0.00182	±2.5	PASS
					40	-3.25	-0.00384	±2.5	PASS
		50			-2.62	-0.0031	±2.5	PASS	
		10	LCH	VN	-30	1.29	0.00156	±2.5	PASS
					-20	0.13	0.00016	±2.5	PASS
					-10	0.59	0.00071	±2.5	PASS
					0	-0.60	-0.00072	±2.5	PASS
					10	0.93	0.00112	±2.5	PASS
					20	0.31	0.00037	±2.5	PASS
					30	0.77	0.00093	±2.5	PASS
					40	0.93	0.00112	±2.5	PASS
					50	-0.16	-0.00019	±2.5	PASS
			MCH	VN	-30	-1.63	-0.00195	±2.5	PASS
					-20	1.00	0.0012	±2.5	PASS
					-10	-0.36	-0.00043	±2.5	PASS
					0	1.44	0.00172	±2.5	PASS
					10	0.77	0.00092	±2.5	PASS
					20	1.20	0.00143	±2.5	PASS
					30	2.56	0.00306	±2.5	PASS
40	1.22				0.00146	±2.5	PASS		
HCH	VN	-30	1.06	0.00126	±2.5	PASS			
		-20	1.30	0.00154	±2.5	PASS			



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Limit [dBm]	Verdict		
					-10	1.54	0.00182	±2.5	PASS		
					0	1.53	0.00181	±2.5	PASS		
					10	0.17	0.0002	±2.5	PASS		
					20	-1.29	-0.00153	±2.5	PASS		
					30	0.03	0.00004	±2.5	PASS		
					40	5.28	0.00626	±2.5	PASS		
					50	-7.25	-0.00859	±2.5	PASS		
	LTE/TM2	1.4	LCH	VN	-30	-1.10	-0.00133	±2.5	PASS		
					-20	-0.96	-0.00116	±2.5	PASS		
					-10	-3.23	-0.00392	±2.5	PASS		
					0	0.37	0.00045	±2.5	PASS		
					10	-0.70	-0.00085	±2.5	PASS		
					20	-1.33	-0.00161	±2.5	PASS		
					30	-0.92	-0.00112	±2.5	PASS		
					40	-0.44	-0.00053	±2.5	PASS		
					50	0.43	0.00052	±2.5	PASS		
					MCH	VN	-30	-0.50	-0.0006	±2.5	PASS
							-20	-0.37	-0.00044	±2.5	PASS
							-10	1.86	0.00222	±2.5	PASS
							0	0.34	0.00041	±2.5	PASS
							10	0.19	0.00023	±2.5	PASS
			20	-0.92			-0.0011	±2.5	PASS		
			30	-0.44			-0.00053	±2.5	PASS		
			HCH	VN	-30	-3.66	-0.00431	±2.5	PASS		
					-20	-2.73	-0.00322	±2.5	PASS		
					-10	-4.08	-0.00481	±2.5	PASS		
					0	-3.16	-0.00373	±2.5	PASS		
					10	-0.96	-0.00113	±2.5	PASS		
					20	-2.60	-0.00306	±2.5	PASS		
					30	-3.72	-0.00439	±2.5	PASS		
			3	LCH	VN	-30	-2.36	-0.00286	±2.5	PASS	
						-20	-2.42	-0.00293	±2.5	PASS	
						-10	-2.49	-0.00302	±2.5	PASS	
0						-1.79	-0.00217	±2.5	PASS		
10						-2.15	-0.0026	±2.5	PASS		



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Limit [dBm]	Verdict		
		5			20	-2.00	-0.00242	±2.5	PASS		
					30	-3.18	-0.00385	±2.5	PASS		
					40	-3.32	-0.00402	±2.5	PASS		
					50	-2.62	-0.00317	±2.5	PASS		
			MCH	VN	-30	0.53	0.00063	±2.5	PASS		
					-20	-0.62	-0.00074	±2.5	PASS		
					-10	-0.20	-0.00024	±2.5	PASS		
					0	-0.90	-0.00108	±2.5	PASS		
					10	1.07	0.00128	±2.5	PASS		
					20	0.03	0.00004	±2.5	PASS		
					30	0.20	0.00024	±2.5	PASS		
					40	0.00	0	±2.5	PASS		
			HCH	VN	-30	-1.73	-0.00204	±2.5	PASS		
					-20	-1.66	-0.00196	±2.5	PASS		
					-10	-1.54	-0.00182	±2.5	PASS		
					0	-0.53	-0.00063	±2.5	PASS		
					10	-0.92	-0.00109	±2.5	PASS		
					20	-3.03	-0.00358	±2.5	PASS		
					30	-1.73	-0.00204	±2.5	PASS		
					40	-1.24	-0.00146	±2.5	PASS		
		5	LCH	VN	-30	-1.26	-0.00152	±2.5	PASS		
					-20	-0.36	-0.00044	±2.5	PASS		
					-10	-1.43	-0.00173	±2.5	PASS		
					0	-0.97	-0.00117	±2.5	PASS		
					10	1.22	0.00148	±2.5	PASS		
					20	-1.43	-0.00173	±2.5	PASS		
					30	-0.62	-0.00075	±2.5	PASS		
					40	-0.76	-0.00092	±2.5	PASS		
			50	-1.22	-0.00148	±2.5	PASS				
			MCH	VN	-30	1.16	0.00139	±2.5	PASS		
					-20	1.33	0.00159	±2.5	PASS		
					-10	0.63	0.00075	±2.5	PASS		
		0			0.47	0.00056	±2.5	PASS			
							10	0.01	0.00001	±2.5	PASS
							20	-1.24	-0.00148	±2.5	PASS
							30	-0.41	-0.00049	±2.5	PASS
							40	0.03	0.00004	±2.5	PASS



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Limit [dBm]	Verdict		
			HCH	VN	50	0.94	0.00112	±2.5	PASS		
					-30	-1.43	-0.00169	±2.5	PASS		
					-20	-2.86	-0.00338	±2.5	PASS		
					-10	-1.79	-0.00211	±2.5	PASS		
					0	-2.05	-0.00242	±2.5	PASS		
					10	-3.12	-0.00369	±2.5	PASS		
					20	-2.65	-0.00313	±2.5	PASS		
					30	-3.93	-0.00464	±2.5	PASS		
					40	-3.60	-0.00425	±2.5	PASS		
			50	-2.56	-0.00302	±2.5	PASS				
			LCH	VN	-30	0.07	0.00008	±2.5	PASS		
					-20	1.02	0.00123	±2.5	PASS		
					-10	1.75	0.00211	±2.5	PASS		
					0	1.42	0.00171	±2.5	PASS		
					10	1.02	0.00123	±2.5	PASS		
					20	0.66	0.0008	±2.5	PASS		
		30			1.19	0.00144	±2.5	PASS			
		40			1.56	0.00188	±2.5	PASS			
		MCH	VN	50	-0.97	-0.00117	±2.5	PASS			
				-30	0.97	0.00116	±2.5	PASS			
				-20	-0.67	-0.0008	±2.5	PASS			
				-10	1.30	0.00155	±2.5	PASS			
				0	1.27	0.00152	±2.5	PASS			
				10	0.44	0.00053	±2.5	PASS			
				20	0.82	0.00098	±2.5	PASS			
				30	-0.13	-0.00016	±2.5	PASS			
		HCH	VN	40	0.19	0.00023	±2.5	PASS			
				50	0.04	0.00005	±2.5	PASS			
				-30	1.99	0.00236	±2.5	PASS			
				-20	1.26	0.00149	±2.5	PASS			
				-10	1.39	0.00165	±2.5	PASS			
				0	0.64	0.00076	±2.5	PASS			
				10	0.07	0.00008	±2.5	PASS			
				20	0.62	0.00073	±2.5	PASS			
		30	-1.72	-0.00204	±2.5	PASS					
		40	-0.16	-0.00019	±2.5	PASS					
		50	0.51	0.0006	±2.5	PASS					
		BAND7	LTE/TM1	5	LCH	VN	-30	-4.05	-0.00162	±2.5	PASS
							-20	-12.32	-0.00492	±2.5	PASS



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Limit [dBm]	Verdict
		10			-10	-17.45	-0.00697	±2.5	PASS
					0	-23.95	-0.00957	±2.5	PASS
					10	-17.68	-0.00706	±2.5	PASS
					20	3.68	0.00147	±2.5	PASS
					30	0.27	0.00011	±2.5	PASS
					40	-2.03	-0.00081	±2.5	PASS
					50	-5.88	-0.00235	±2.5	PASS
			MCH	VN	-30	5.22	0.00206	±2.5	PASS
					-20	6.12	0.00241	±2.5	PASS
					-10	5.66	0.00223	±2.5	PASS
					0	6.97	0.00275	±2.5	PASS
					10	10.59	0.00418	±2.5	PASS
					20	-1.29	-0.00051	±2.5	PASS
					30	-0.96	-0.00038	±2.5	PASS
			HCH	VN	-30	2.63	0.00102	±2.5	PASS
					-20	-2.93	-0.00114	±2.5	PASS
					-10	-6.47	-0.00252	±2.5	PASS
					0	-9.00	-0.00351	±2.5	PASS
					10	-12.25	-0.00477	±2.5	PASS
					20	6.35	0.00247	±2.5	PASS
					30	11.62	0.00453	±2.5	PASS
			LCH	VN	40	13.15	0.00512	±2.5	PASS
					50	8.21	0.0032	±2.5	PASS
					-30	-2.00	-0.0008	±2.5	PASS
		-20			-11.04	-0.00441	±2.5	PASS	
		-10			-17.92	-0.00715	±2.5	PASS	
		0			-18.22	-0.00727	±2.5	PASS	
		10			10.57	0.00422	±2.5	PASS	
		MCH	VN	20	2.53	0.00101	±2.5	PASS	
				30	0.39	0.00016	±2.5	PASS	
				40	-5.41	-0.00216	±2.5	PASS	
				50	-12.02	-0.0048	±2.5	PASS	
				-30	9.13	0.0036	±2.5	PASS	
				-20	11.80	0.00465	±2.5	PASS	
				-10	12.43	0.0049	±2.5	PASS	
				0	11.33	0.00447	±2.5	PASS	
				10	10.26	0.00405	±2.5	PASS	



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Limit [dBm]	Verdict
		15	HCH	VN	20	-4.19	-0.00165	±2.5	PASS
					30	-1.69	-0.00067	±2.5	PASS
					40	4.59	0.00181	±2.5	PASS
					50	4.21	0.00166	±2.5	PASS
					-30	-5.99	-0.00234	±2.5	PASS
					-20	-12.32	-0.0048	±2.5	PASS
					-10	-20.03	-0.00781	±2.5	PASS
					0	8.83	0.00344	±2.5	PASS
					10	6.87	0.00268	±2.5	PASS
					20	2.09	0.00081	±2.5	PASS
			30	2.45	0.00096	±2.5	PASS		
			40	-1.97	-0.00077	±2.5	PASS		
			50	-5.89	-0.0023	±2.5	PASS		
			LCH	VN	-30	-7.78	-0.0031	±2.5	PASS
					-20	9.18	0.00366	±2.5	PASS
					-10	-2.40	-0.00096	±2.5	PASS
					0	-13.32	-0.00531	±2.5	PASS
					10	12.26	0.00489	±2.5	PASS
					20	2.90	0.00116	±2.5	PASS
					30	-4.65	-0.00185	±2.5	PASS
		40			-11.92	-0.00475	±2.5	PASS	
		50			16.54	0.0066	±2.5	PASS	
		MCH			VN	-30	1.65	0.00065	±2.5
			-20	-5.35		-0.00211	±2.5	PASS	
			-10	-7.32		-0.00289	±2.5	PASS	
			0	-13.29		-0.00524	±2.5	PASS	
			10	-14.98		-0.00591	±2.5	PASS	
			20	-16.69		-0.00658	±2.5	PASS	
			30	-0.77		-0.0003	±2.5	PASS	
			40	6.01		0.00237	±2.5	PASS	
		50	9.86	0.00389	±2.5	PASS			
		HCH	VN	-30	-9.27	-0.00362	±2.5	PASS	
				-20	-12.82	-0.005	±2.5	PASS	
				-10	-21.43	-0.00836	±2.5	PASS	
				0	-19.44	-0.00759	±2.5	PASS	
				10	-3.88	-0.00151	±2.5	PASS	
				20	-21.47	-0.00838	±2.5	PASS	
				30	1.14	0.00044	±2.5	PASS	
		40	2.17	0.00085	±2.5	PASS			



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Limit [dBm]	Verdict
		20	LCH	VN	50	0.00	0	±2.5	PASS
					-30	5.41	0.00216	±2.5	PASS
					-20	3.26	0.0013	±2.5	PASS
					-10	-3.73	-0.00149	±2.5	PASS
					0	-6.61	-0.00263	±2.5	PASS
					10	-9.03	-0.0036	±2.5	PASS
					20	-12.30	-0.0049	±2.5	PASS
					30	-13.33	-0.00531	±2.5	PASS
			40	-11.36	-0.00453	±2.5	PASS		
			50	-14.69	-0.00585	±2.5	PASS		
			MCH	VN	-30	-12.45	-0.00491	±2.5	PASS
					-20	-14.49	-0.00572	±2.5	PASS
					-10	-16.78	-0.00662	±2.5	PASS
					0	2.35	0.00093	±2.5	PASS
					10	-9.51	-0.00375	±2.5	PASS
					20	-11.40	-0.0045	±2.5	PASS
					30	12.06	0.00476	±2.5	PASS
					40	6.37	0.00251	±2.5	PASS
			50	10.90	0.0043	±2.5	PASS		
			HCH	VN	-30	-1.49	-0.00058	±2.5	PASS
					-20	-5.92	-0.00231	±2.5	PASS
					-10	-11.57	-0.00452	±2.5	PASS
					0	16.48	0.00644	±2.5	PASS
					10	-7.10	-0.00277	±2.5	PASS
	20	9.83			0.00384	±2.5	PASS		
	30	13.62			0.00532	±2.5	PASS		
	40	16.81			0.00657	±2.5	PASS		
	50	15.16	0.00592	±2.5	PASS				
	LTE/TM2	5	LCH	VN	-30	-1.87	-0.00075	±2.5	PASS
					-20	-1.16	-0.00046	±2.5	PASS
					-10	2.25	0.0009	±2.5	PASS
					0	-26.14	-0.01045	±2.5	PASS
					10	-19.45	-0.00777	±2.5	PASS
20					-13.60	-0.00543	±2.5	PASS	
30					-10.29	-0.00411	±2.5	PASS	
40					-8.04	-0.00321	±2.5	PASS	
50			-3.06	-0.00122	±2.5	PASS			
MCH			VN	-30	-12.55	-0.00495	±2.5	PASS	
	-20	-4.73		-0.00187	±2.5	PASS			



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Limit [dBm]	Verdict					
					-10	0.16	0.00006	±2.5	PASS					
					0	5.15	0.00203	±2.5	PASS					
					10	-15.91	-0.00628	±2.5	PASS					
					20	-10.29	-0.00406	±2.5	PASS					
					30	-2.30	-0.00091	±2.5	PASS					
					40	2.23	0.00088	±2.5	PASS					
					50	2.98	0.00118	±2.5	PASS					
					HCH	VN				-30	-6.42	-0.0025	±2.5	PASS
										-20	-2.42	-0.00094	±2.5	PASS
										-10	-0.06	-0.00002	±2.5	PASS
										0	2.07	0.00081	±2.5	PASS
										10	9.10	0.00354	±2.5	PASS
										20	11.90	0.00463	±2.5	PASS
										30	14.49	0.00564	±2.5	PASS
										40	17.25	0.00672	±2.5	PASS
		50	8.85	0.00345						±2.5	PASS			
		LCH	VN					-30	-5.08	-0.00203	±2.5	PASS		
								-20	-10.29	-0.00411	±2.5	PASS		
								-10	-14.22	-0.00568	±2.5	PASS		
								0	-14.81	-0.00591	±2.5	PASS		
								10	-13.36	-0.00533	±2.5	PASS		
								20	-15.56	-0.00621	±2.5	PASS		
							30	-10.03	-0.004	±2.5	PASS			
							40	7.75	0.00309	±2.5	PASS			
							50	11.72	0.00468	±2.5	PASS			
		MCH	VN					-30	-2.22	-0.00088	±2.5	PASS		
								-20	-2.25	-0.00089	±2.5	PASS		
								-10	0.87	0.00034	±2.5	PASS		
								0	0.93	0.00037	±2.5	PASS		
								10	2.29	0.0009	±2.5	PASS		
								20	1.70	0.00067	±2.5	PASS		
				30				-0.50	-0.0002	±2.5	PASS			
				40				0.66	0.00026	±2.5	PASS			
				50				0.84	0.00033	±2.5	PASS			
		HCH	VN					-30	-17.04	-0.00664	±2.5	PASS		
								-20	-10.33	-0.00403	±2.5	PASS		
								-10	-11.47	-0.00447	±2.5	PASS		
								0	-15.38	-0.006	±2.5	PASS		
								10	-18.81	-0.00733	±2.5	PASS		



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Limit [dBm]	Verdict		
					20	-14.65	-0.00571	±2.5	PASS		
					30	-10.94	-0.00427	±2.5	PASS		
					40	-7.64	-0.00298	±2.5	PASS		
					50	-5.79	-0.00226	±2.5	PASS		
		15	LCH	VN	-30	10.23	0.00408	±2.5	PASS		
					-20	-4.63	-0.00185	±2.5	PASS		
					-10	-14.12	-0.00563	±2.5	PASS		
					0	16.55	0.0066	±2.5	PASS		
					10	13.39	0.00534	±2.5	PASS		
					20	9.91	0.00395	±2.5	PASS		
					30	6.82	0.00272	±2.5	PASS		
					40	4.15	0.00166	±2.5	PASS		
					50	0.04	0.00002	±2.5	PASS		
					MCH	VN	-30	6.21	0.00245	±2.5	PASS
							-20	6.74	0.00266	±2.5	PASS
							-10	5.54	0.00219	±2.5	PASS
			0	6.37			0.00251	±2.5	PASS		
			10	3.56			0.0014	±2.5	PASS		
			20	-3.93			-0.00155	±2.5	PASS		
			30	-10.26			-0.00405	±2.5	PASS		
			40	-14.51			-0.00572	±2.5	PASS		
			HCH	VN	-30	-0.01	0	±2.5	PASS		
					-20	-2.49	-0.00097	±2.5	PASS		
					-10	-5.44	-0.00212	±2.5	PASS		
					0	-4.43	-0.00173	±2.5	PASS		
					10	-6.85	-0.00267	±2.5	PASS		
					20	-16.77	-0.00654	±2.5	PASS		
					30	-19.48	-0.0076	±2.5	PASS		
					40	-22.83	-0.00891	±2.5	PASS		
			20	LCH	VN	-30	-26.11	-0.0104	±2.5	PASS	
						-20	-23.07	-0.00919	±2.5	PASS	
						-10	-20.21	-0.00805	±2.5	PASS	
		0				-23.88	-0.00951	±2.5	PASS		
		10				-26.62	-0.01061	±2.5	PASS		
		20				-26.88	-0.01071	±2.5	PASS		
		30				1.06	0.00042	±2.5	PASS		
		40				4.02	0.0016	±2.5	PASS		



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Limit [dBm]	Verdict		
					50	-2.55	-0.00102	±2.5	PASS		
			MCH	VN	-30	-16.21	-0.00639	±2.5	PASS		
							-20	-14.59	-0.00576	±2.5	PASS
							-10	-15.05	-0.00594	±2.5	PASS
							0	-14.69	-0.00579	±2.5	PASS
							10	-13.92	-0.00549	±2.5	PASS
							20	-14.63	-0.00577	±2.5	PASS
							30	-19.30	-0.00761	±2.5	PASS
							40	-10.29	-0.00406	±2.5	PASS
							50	-9.37	-0.0037	±2.5	PASS
			HCH	VN	-30	4.26	0.00166	±2.5	PASS		
							-20	2.83	0.00111	±2.5	PASS
							-10	1.32	0.00052	±2.5	PASS
							0	-1.69	-0.00066	±2.5	PASS
							10	-9.13	-0.00357	±2.5	PASS
							20	-6.97	-0.00272	±2.5	PASS
							30	-6.31	-0.00246	±2.5	PASS
							40	-8.43	-0.00329	±2.5	PASS
							50	-10.21	-0.00399	±2.5	PASS

END