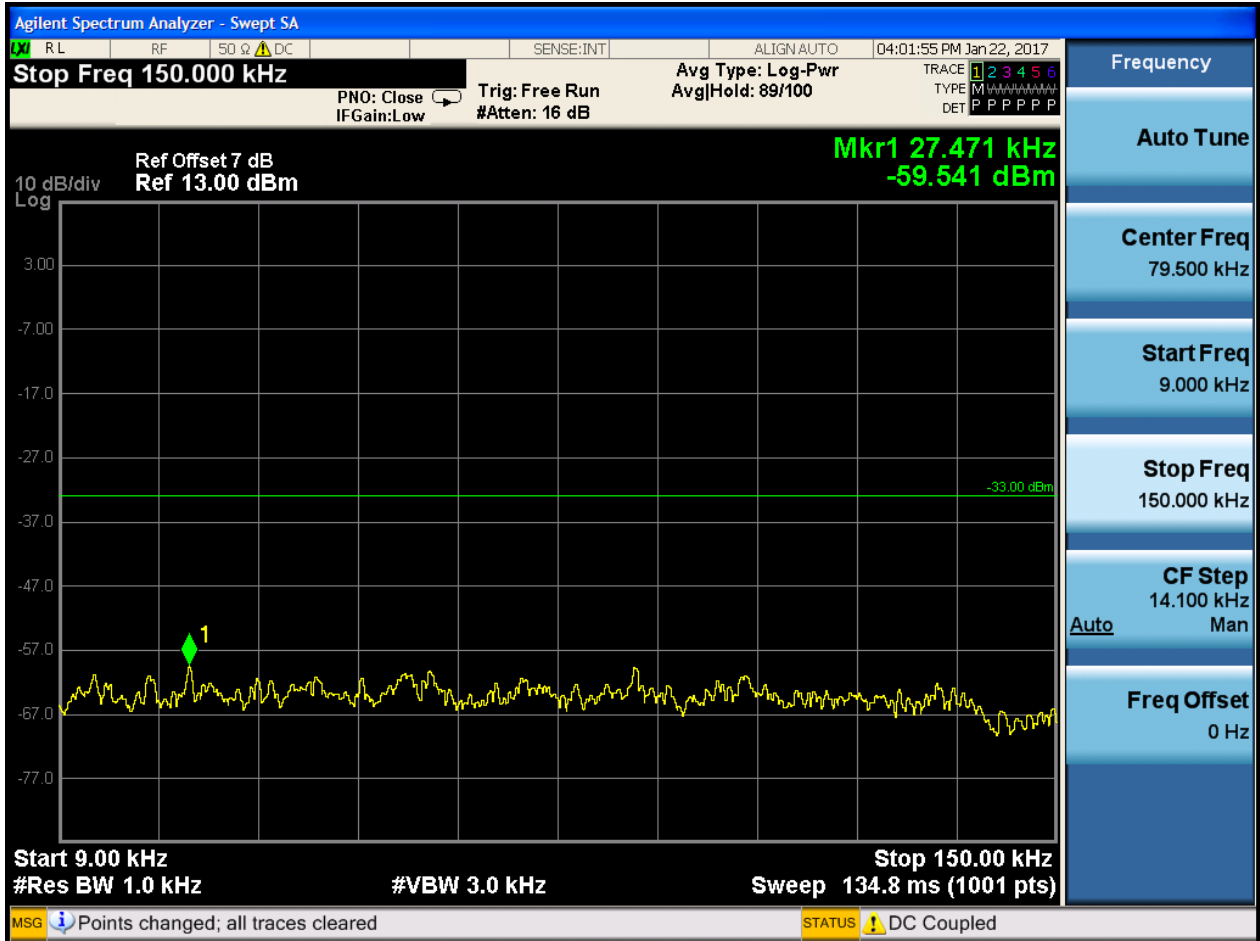
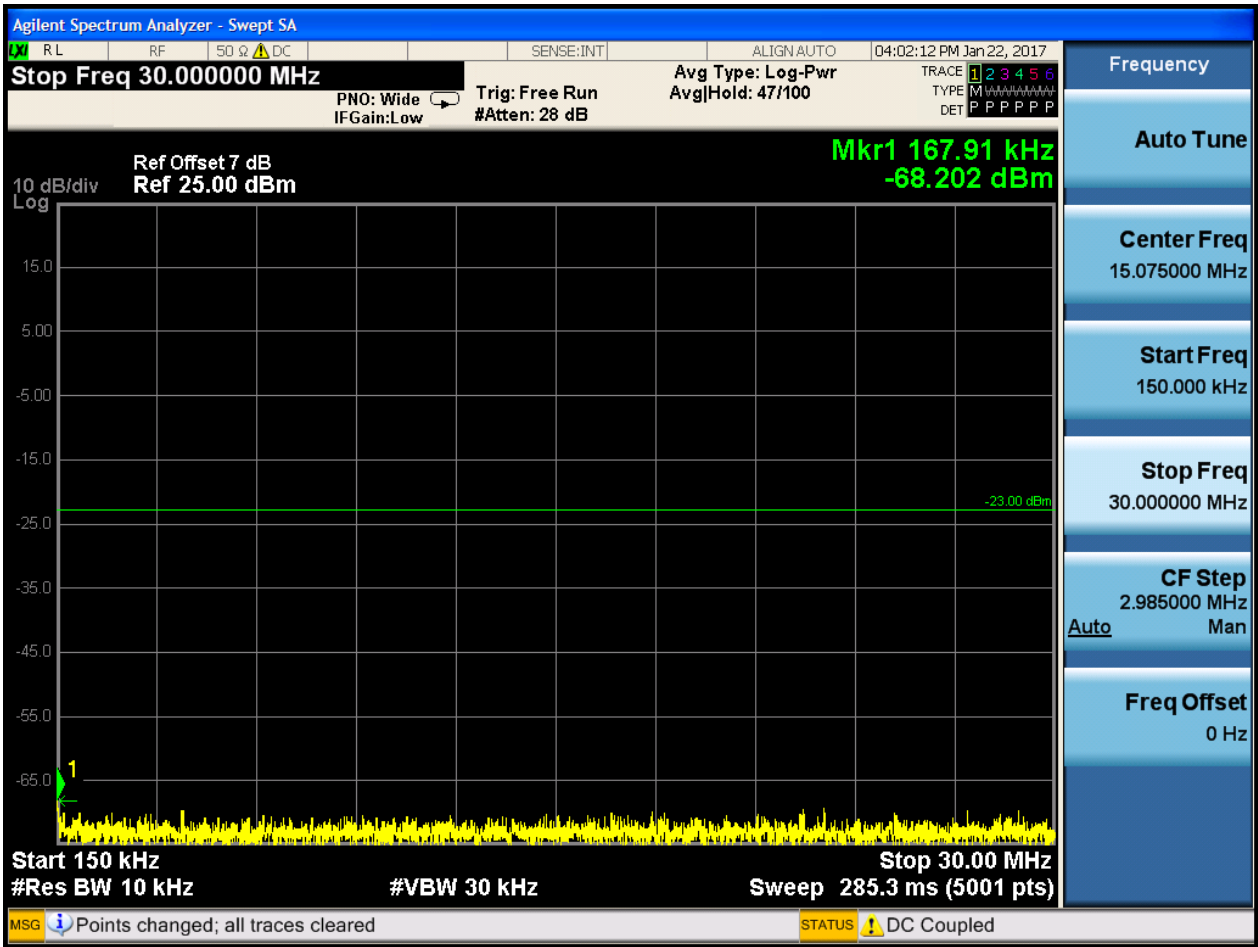


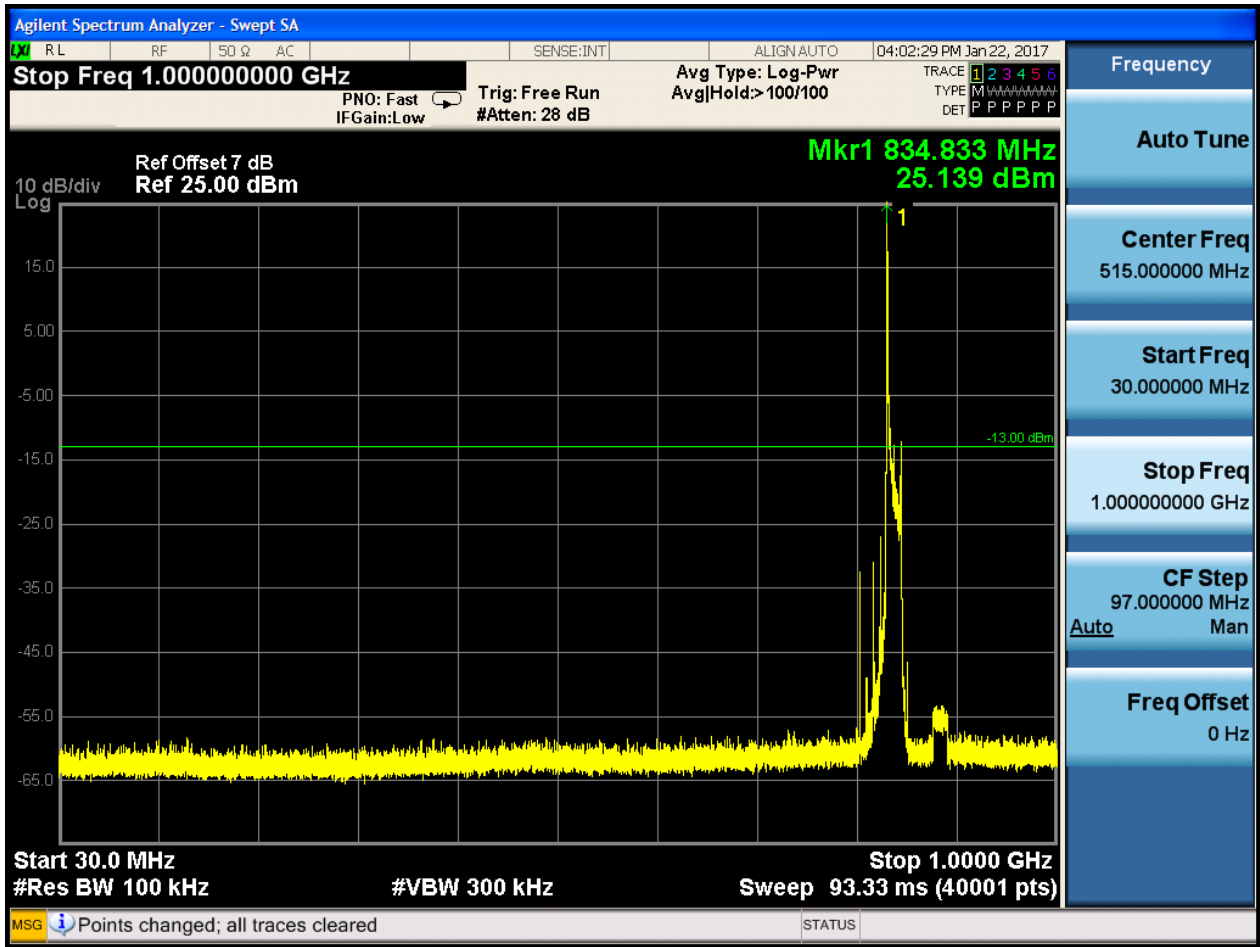


6.1.1.2.5.3 Test Channel = HCH

6.1.1.2.5.3.1 Test RB = RB1#0











## 7Appendix\_G: Frequency Stability

### 7.1 For LTE

#### 7.1.1Frequency Error vs. Voltage:

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
BAND26	LTE/TM1	1.4	LCH	TN	VL	0.67	0.00081	PASS
					VN	-2.37	-0.00287	PASS
					VH	0.59	0.00072	PASS
			MCH	TN	VL	8.80	0.01052	PASS
					VN	6.78	0.00811	PASS
					VH	8.11	0.0097	PASS
			HCH	TN	VL	5.92	0.00698	PASS
					VN	4.28	0.00505	PASS
					VH	-4.25	-0.00501	PASS
		3	LCH	TN	VL	-2.95	-0.00357	PASS
					VN	-4.72	-0.00572	PASS
					VH	-1.59	-0.00193	PASS
			MCH	TN	VL	3.58	0.00428	PASS
					VN	-4.31	-0.00515	PASS
					VH	1.66	0.00198	PASS
			HCH	TN	VL	-2.65	-0.00313	PASS
					VN	-1.60	-0.00189	PASS
					VH	-3.71	-0.00438	PASS
		5	LCH	TN	VL	-1.03	-0.00125	PASS
					VN	-4.23	-0.00512	PASS
					VH	-3.05	-0.00369	PASS
			MCH	TN	VL	3.13	0.00374	PASS
					VN	3.40	0.00406	PASS
					VH	-1.09	-0.0013	PASS
			HCH	TN	VL	3.72	0.00439	PASS
					VN	-1.39	-0.00164	PASS
					VH	-2.26	-0.00267	PASS
10	LCH	TN	VL	-4.25	-0.00513	PASS		

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
					VN	1.62	0.00195	PASS		
					VH	-5.81	-0.00701	PASS		
					MCH	TN	VL	3.19	0.00381	PASS
							VN	3.60	0.0043	PASS
					VH	-0.62	-0.00074	PASS		
					HCH	TN	VL	-4.94	-0.00585	PASS
			VN	0.39			0.00046	PASS		
			VH	5.69			0.00674	PASS		
			15	LCH	TN	VL	27.51	0.03308	PASS	
						VN	0.07	0.00008	PASS	
						VH	6.31	0.00759	PASS	
				MCH	TN	VL	0.84	0.001	PASS	
		VN				-1.93	-0.00231	PASS		
		VH				3.43	0.0041	PASS		
		HCH		TN	VL	-19.05	-0.02264	PASS		
					VN	1.85	0.0022	PASS		
					VH	-1.89	-0.00225	PASS		
		LTE/TM2		1.4	LCH	TN	VL	-3.48	-0.00422	PASS
							VN	-1.04	-0.00126	PASS
							VH	-4.21	-0.0051	PASS
			MCH		TN	VL	-4.01	-0.00479	PASS	
						VN	-9.76	-0.01167	PASS	
						VH	-5.59	-0.00668	PASS	
			HCH		TN	VL	-6.48	-0.00764	PASS	
	VN					-2.42	-0.00285	PASS		
	VH					-2.89	-0.00341	PASS		
	3		LCH		TN	VL	-4.45	-0.00539	PASS	
						VN	-1.29	-0.00156	PASS	
						VH	-0.04	-0.00005	PASS	
		MCH	TN	VL	7.84	0.00937	PASS			
				VN	-11.20	-0.01339	PASS			
				VH	0.49	0.00059	PASS			
	HCH	TN	VL	-4.75	-0.0056	PASS				
			VN	-5.31	-0.00627	PASS				
			VH	-1.62	-0.00191	PASS				
	5	LCH	TN	VL	0.37	0.00045	PASS			
				VN	-0.54	-0.00065	PASS			
				VH	-2.29	-0.00277	PASS			
	MCH	TN	VL	5.45	0.00652	PASS				





Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict	
				TN	VN	-1.56	-0.00186	PASS	
					VH	7.47	0.00893	PASS	
					VL	-0.82	-0.00097	PASS	
			HCH		VN	-1.72	-0.00203	PASS	
			VH		-2.07	-0.00245	PASS		
			VL		1.00	0.00121	PASS		
		10	LCH	TN	VN	0.59	0.00071	PASS	
					VH	-0.44	-0.00053	PASS	
					VL	-5.28	-0.00631	PASS	
			MCH	TN	VN	4.41	0.00527	PASS	
					VH	0.47	0.00056	PASS	
					VL	-1.06	-0.00126	PASS	
			HCH	TN	VN	-0.53	-0.00063	PASS	
					VH	-7.07	-0.00838	PASS	
					VL	11.79	0.01418	PASS	
			15	LCH	TN	VN	7.84	0.00943	PASS
						VH	-7.58	-0.00912	PASS
						VL	9.21	0.01101	PASS
		MCH		TN	VN	3.55	0.00424	PASS	
					VH	-1.20	-0.00143	PASS	
					VL	-1.76	-0.00209	PASS	
HCH	TN	VN		2.83	0.00336	PASS			
		VH		-1.60	-0.0019	PASS			
		VL		-1.60	-0.0019	PASS			

## 7.1.2 Frequency Error vs. Temperature:

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
BAND26	LTE/TM1	1.4	LCH	VN	-30	3.93	0.00477	PASS
					-20	-3.20	-0.00388	PASS
					-10	5.11	0.0062	PASS
					0	0.50	0.00061	PASS
					10	2.10	0.00255	PASS
					20	-1.66	-0.00201	PASS
					30	1.53	0.00186	PASS
					40	-4.23	-0.00513	PASS
					50	-2.76	-0.00335	PASS
			MCH		VN	-30	-6.94	-0.0083

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
					-20	-15.08	-0.01803	PASS		
					-10	-21.90	-0.02618	PASS		
					0	-2.80	-0.00335	PASS		
					10	-14.59	-0.01744	PASS		
					20	-4.91	-0.00587	PASS		
					30	0.04	0.00005	PASS		
					40	-16.11	-0.01926	PASS		
					50	7.77	0.00929	PASS		
			HCH	VN	-30	0.89	0.00105	PASS		
					-20	-8.30	-0.00978	PASS		
					-10	9.93	0.01171	PASS		
					0	14.78	0.01742	PASS		
					10	3.13	0.00369	PASS		
					20	1.29	0.00152	PASS		
					30	-1.72	-0.00203	PASS		
					40	-5.75	-0.00678	PASS		
			LCH	VN	-30	-2.85	-0.00345	PASS		
					-20	2.23	0.0027	PASS		
					-10	0.17	0.00021	PASS		
					0	-2.86	-0.00346	PASS		
		10			-3.26	-0.00395	PASS			
		20			-1.82	-0.0022	PASS			
		30			-3.76	-0.00455	PASS			
		40			-0.50	-0.00061	PASS			
		MCH	VN	-30	-7.18	-0.00858	PASS			
				-20	-0.17	-0.0002	PASS			
				-10	2.06	0.00246	PASS			
				0	5.26	0.00629	PASS			
				10	-1.30	-0.00155	PASS			
				20	6.08	0.00727	PASS			
				30	0.11	0.00013	PASS			
				40	3.19	0.00381	PASS			
		HCH	VN	-30	-0.29	-0.00034	PASS			
				-20	0.92	0.00109	PASS			
				-10	-1.53	-0.00181	PASS			
				0	-0.01	-0.00001	PASS			
		3					-20	-15.08	-0.01803	PASS
							-10	-21.90	-0.02618	PASS
							0	-2.80	-0.00335	PASS
							10	-14.59	-0.01744	PASS
20	-4.91						-0.00587	PASS		
30	0.04						0.00005	PASS		
40	-16.11						-0.01926	PASS		
50	7.77						0.00929	PASS		



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					10	-0.94	-0.00111	PASS
					20	-0.77	-0.00091	PASS
					30	-3.09	-0.00365	PASS
					40	1.16	0.00137	PASS
					50	-1.52	-0.00179	PASS
		5	LCH	VN	-30	-1.22	-0.00148	PASS
					-20	1.24	0.0015	PASS
					-10	-0.19	-0.00023	PASS
					0	-0.19	-0.00023	PASS
					10	-0.53	-0.00064	PASS
					20	1.59	0.00192	PASS
					30	0.47	0.00057	PASS
					40	0.59	0.00071	PASS
					50	1.03	0.00125	PASS
					MCH	VN	-30	9.48
			-20	-3.03			-0.00362	PASS
			-10	-0.92			-0.0011	PASS
			0	-5.12			-0.00612	PASS
			10	-6.95			-0.00831	PASS
			20	-0.03			-0.00004	PASS
			30	1.30			0.00155	PASS
			40	-9.06			-0.01083	PASS
			HCH	VN	-30	1.30	0.00154	PASS
					-20	0.94	0.00111	PASS
					-10	-2.62	-0.0031	PASS
					0	0.03	0.00004	PASS
					10	-0.59	-0.0007	PASS
					20	-0.47	-0.00056	PASS
					30	1.34	0.00158	PASS
			10	LCH	VN	40	2.50	0.00295
50	-1.70	-0.00201				PASS		
-30	-3.13	-0.00378				PASS		
-20	2.46	0.00297				PASS		
-10	0.97	0.00117				PASS		
0	2.68	0.00323				PASS		
10	-4.12	-0.00497				PASS		
20	-1.17	-0.00141	PASS					
30	1.13	0.00136	PASS					



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
		15	MCH	VN	40	-1.43	-0.00172	PASS
					50	-2.33	-0.00281	PASS
					-30	-0.31	-0.00037	PASS
					-20	7.11	0.0085	PASS
					-10	7.40	0.00885	PASS
					0	-6.14	-0.00734	PASS
					10	3.30	0.00395	PASS
					20	5.91	0.00707	PASS
					30	6.05	0.00723	PASS
					40	-2.26	-0.0027	PASS
					50	-2.82	-0.00337	PASS
					HCH	VN	-30	-3.92
			-20	2.99			0.00354	PASS
			-10	1.59			0.00188	PASS
			0	1.97			0.00233	PASS
			10	-8.83			-0.01046	PASS
			20	1.39			0.00165	PASS
			30	1.72			0.00204	PASS
			40	-8.93			-0.01058	PASS
			LCH	VN	-30	4.59	0.00552	PASS
					-20	2.85	0.00343	PASS
					-10	-0.30	-0.00036	PASS
					0	-1.89	-0.00227	PASS
					10	-2.02	-0.00243	PASS
		20			-2.30	-0.00277	PASS	
		30			1.09	0.00131	PASS	
		40			0.86	0.00103	PASS	
		MCH	VN	50	5.31	0.00639	PASS	
				-30	10.39	0.01242	PASS	
				-20	-3.92	-0.00469	PASS	
				-10	2.73	0.00326	PASS	
				0	2.19	0.00262	PASS	
				10	9.27	0.01108	PASS	
				20	-7.28	-0.0087	PASS	
				30	-0.04	-0.00005	PASS	
		HCH	VN	40	-3.03	-0.00362	PASS	
50	12.89			0.01541	PASS			
			HCH	VN	-30	-3.81	-0.00453	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					-20	1.53	0.00182	PASS
					-10	-8.50	-0.0101	PASS
					0	-10.19	-0.01211	PASS
					10	4.11	0.00488	PASS
					20	-4.31	-0.00512	PASS
					30	-0.47	-0.00056	PASS
					40	-14.73	-0.0175	PASS
					50	1.24	0.00147	PASS
	LTE/TM2	1.4	LCH	VN	-30	-0.44	-0.00053	PASS
					-20	-3.32	-0.00403	PASS
					-10	-2.23	-0.0027	PASS
					0	-5.08	-0.00616	PASS
					10	-5.65	-0.00685	PASS
					20	-10.37	-0.01257	PASS
					30	-5.05	-0.00612	PASS
					40	-1.40	-0.0017	PASS
			50	-8.07	-0.00979	PASS		
			MCH	VN	-30	2.65	0.00317	PASS
					-20	-9.44	-0.01129	PASS
					-10	-4.89	-0.00585	PASS
					0	-10.13	-0.01211	PASS
					10	-12.97	-0.01551	PASS
					20	19.66	0.0235	PASS
					30	5.29	0.00632	PASS
		40			-0.33	-0.00039	PASS	
		50	-0.56	-0.00067	PASS			
		HCH	VN	-30	10.14	0.01195	PASS	
				-20	4.41	0.0052	PASS	
				-10	10.36	0.01221	PASS	
				0	-12.99	-0.01531	PASS	
				10	-2.76	-0.00325	PASS	
				20	-4.75	-0.0056	PASS	
30	7.38			0.0087	PASS			
40	-5.21			-0.00614	PASS			
50	-4.42	-0.00521	PASS					
3	LCH	VN	-30	1.13	0.00137	PASS		
			-20	0.24	0.00029	PASS		
			-10	1.14	0.00138	PASS		
			0	-5.02	-0.00608	PASS		



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict			
		5			10	-2.85	-0.00345	PASS			
					20	-0.41	-0.0005	PASS			
					30	-5.26	-0.00637	PASS			
					40	-6.84	-0.00829	PASS			
					50	-1.26	-0.00153	PASS			
			MCH	VN	-30	-0.93	-0.00111	PASS			
					-20	3.05	0.00365	PASS			
					-10	-4.51	-0.00539	PASS			
					0	4.49	0.00537	PASS			
					10	-6.25	-0.00747	PASS			
					20	5.02	0.006	PASS			
					30	2.42	0.00289	PASS			
					40	-1.07	-0.00128	PASS			
					50	-0.84	-0.001	PASS			
			HCH	VN	-30	-3.45	-0.00407	PASS			
					-20	0.99	0.00117	PASS			
					-10	-0.10	-0.00012	PASS			
					0	-3.71	-0.00438	PASS			
					10	-2.82	-0.00333	PASS			
					20	-3.79	-0.00447	PASS			
					30	-6.72	-0.00793	PASS			
					40	-0.94	-0.00111	PASS			
			5		5	LCH	VN	-30	-2.03	-0.00246	PASS
								-20	0.76	0.00092	PASS
		-10						1.52	0.00184	PASS	
		0						0.24	0.00029	PASS	
		10						-1.50	-0.00181	PASS	
		20						-1.65	-0.002	PASS	
		30				1.99	0.00241	PASS			
		40				2.17	0.00263	PASS			
		50				0.96	0.00116	PASS			
		MCH				VN	-30	3.36	0.00402	PASS	
							-20	3.48	0.00416	PASS	
							-10	5.91	0.00707	PASS	
			0	-5.11	-0.00611		PASS				
			10	-0.60	-0.00072		PASS				
20	-2.26		-0.0027	PASS							
30	-3.79	-0.00453	PASS								



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					40	0.82	0.00098	PASS
					50	3.22	0.00385	PASS
			HCH	VN	-30	0.62	0.00073	PASS
					-20	2.82	0.00333	PASS
					-10	0.67	0.00079	PASS
					0	-3.43	-0.00405	PASS
					10	0.13	0.00015	PASS
					20	-0.77	-0.00091	PASS
					30	-0.47	-0.00056	PASS
					40	0.01	0.00001	PASS
					50	-0.39	-0.00046	PASS
					10	LCH	VN	-30
		-20	-8.27	-0.00998				PASS
		-10	-3.38	-0.00408				PASS
		0	-0.09	-0.00011				PASS
		10	-2.17	-0.00262				PASS
		20	4.18	0.00504				PASS
		30	0.07	0.00008				PASS
		40	5.19	0.00626				PASS
		50	3.56	0.00429				PASS
		MCH	VN	-30		-6.37	-0.00762	PASS
				-20		-1.12	-0.00134	PASS
				-10		2.45	0.00293	PASS
				0		3.58	0.00428	PASS
				10		1.39	0.00166	PASS
				20		-1.13	-0.00135	PASS
				30		-2.66	-0.00318	PASS
				40		1.85	0.00221	PASS
				50		-4.56	-0.00545	PASS
		HCH	VN	-30	-7.24	-0.00858	PASS	
				-20	-10.49	-0.01243	PASS	
				-10	-9.31	-0.01103	PASS	
				0	1.73	0.00205	PASS	
10	-4.08			-0.00483	PASS			
20	-11.24			-0.01332	PASS			
30	0.26			0.00031	PASS			
40	-0.26			-0.00031	PASS			
50	-3.91	-0.00463	PASS					
15	LCH	VN	-30	-7.82	-0.0094	PASS		



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict			
					-20	5.04	0.00606	PASS			
					-10	6.71	0.00807	PASS			
					0	-5.71	-0.00687	PASS			
					10	1.59	0.00191	PASS			
					20	2.47	0.00297	PASS			
					30	0.77	0.00093	PASS			
					40	5.28	0.00635	PASS			
					50	1.92	0.00231	PASS			
			MCH	VN	-30	-8.77	-0.01048	PASS			
					-20	-6.78	-0.00811	PASS			
					-10	-4.98	-0.00595	PASS			
					0	-3.55	-0.00424	PASS			
					10	-8.33	-0.00996	PASS			
					20	-12.15	-0.01452	PASS			
					30	-0.94	-0.00112	PASS			
					40	-5.76	-0.00689	PASS			
			HCH	VN	-30	-10.87	-0.01292	PASS			
					-20	-6.39	-0.00759	PASS			
					-10	-5.48	-0.00651	PASS			
					0	-2.49	-0.00296	PASS			
					10	1.37	0.00163	PASS			
					20	-7.50	-0.00891	PASS			
					30	-1.10	-0.00131	PASS			
					40	-1.03	-0.00122	PASS			
								50	4.94	0.00587	PASS

END