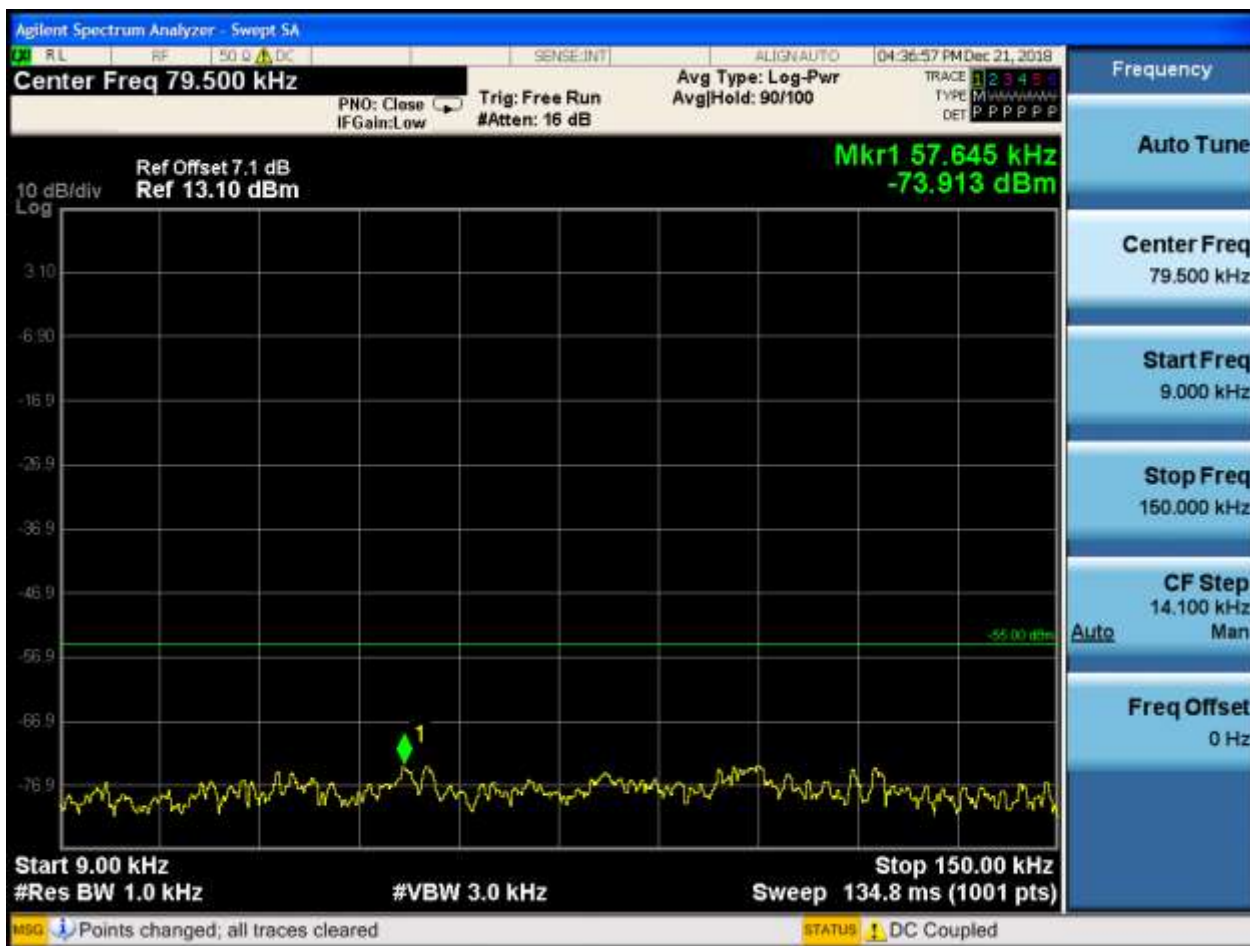
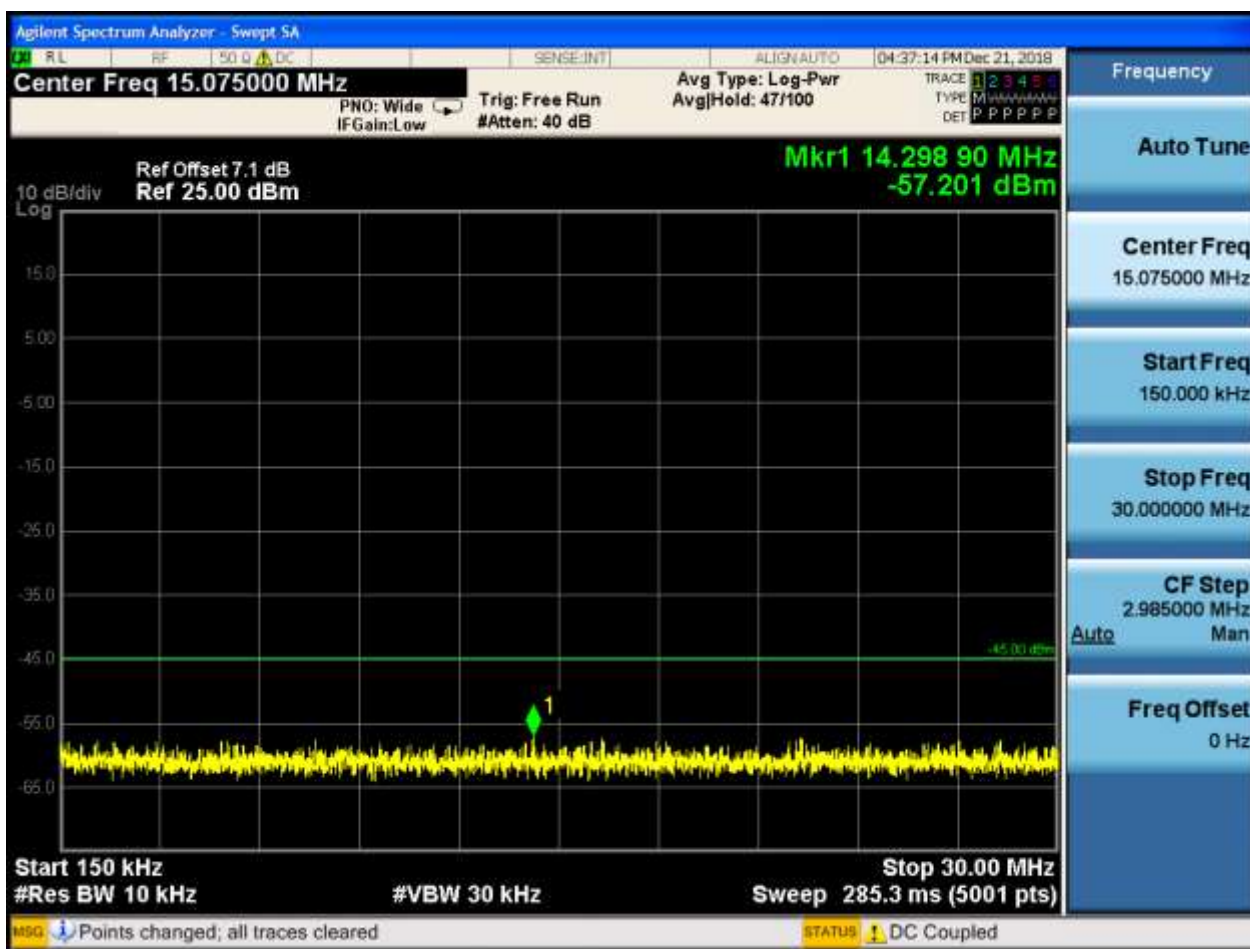




6.1.1.1.2.2 Test Channel = MCH

6.1.1.1.2.2.1 Test RB = RB1#0



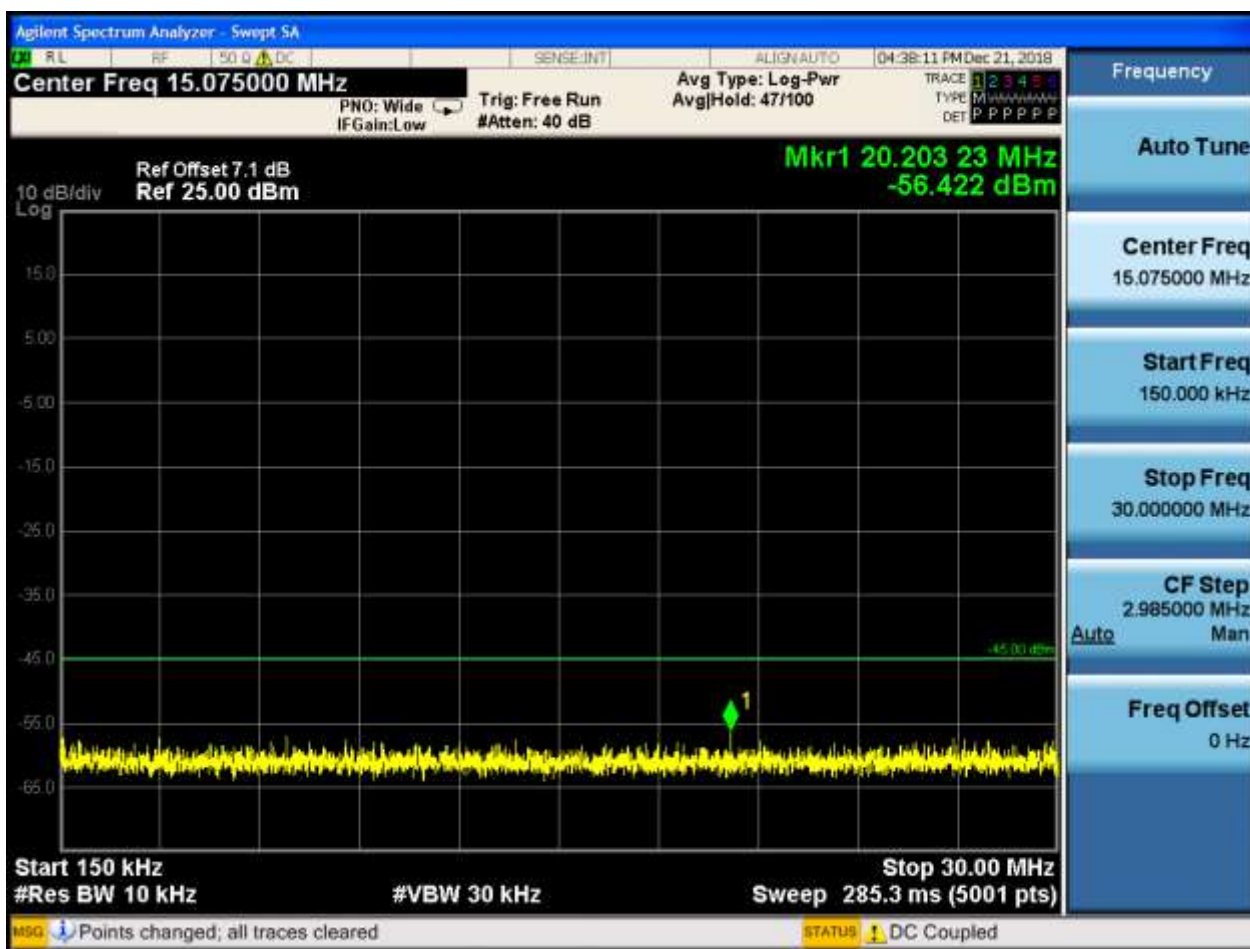




6.1.1.1.2.3 Test Channel = HCH

6.1.1.1.2.3.1 Test RB = RB1#0





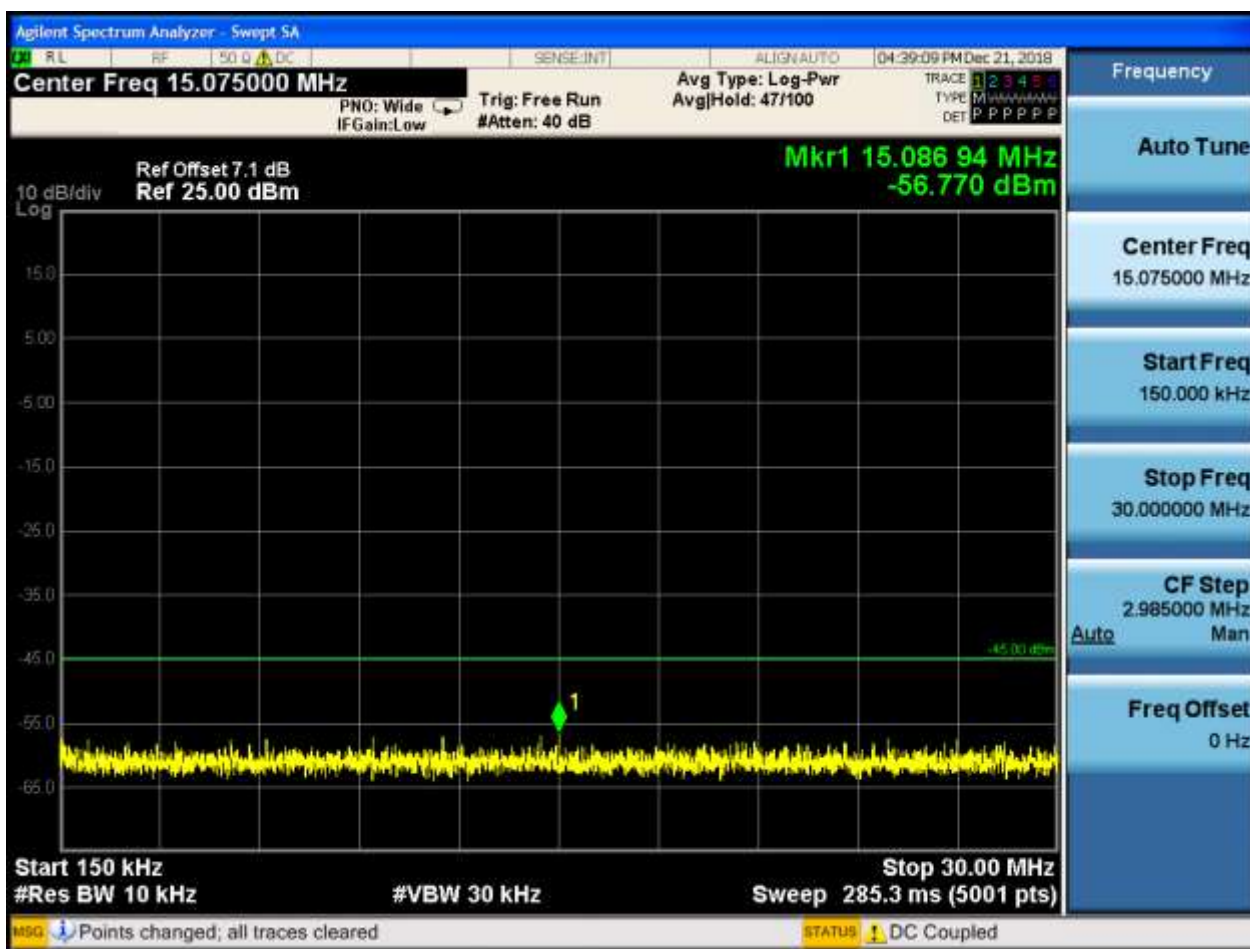


6.1.1.1.3 Test Bandwidth = 15

6.1.1.1.3.1 Test Channel = LCH

6.1.1.1.3.1.1 Test RB = RB1#0



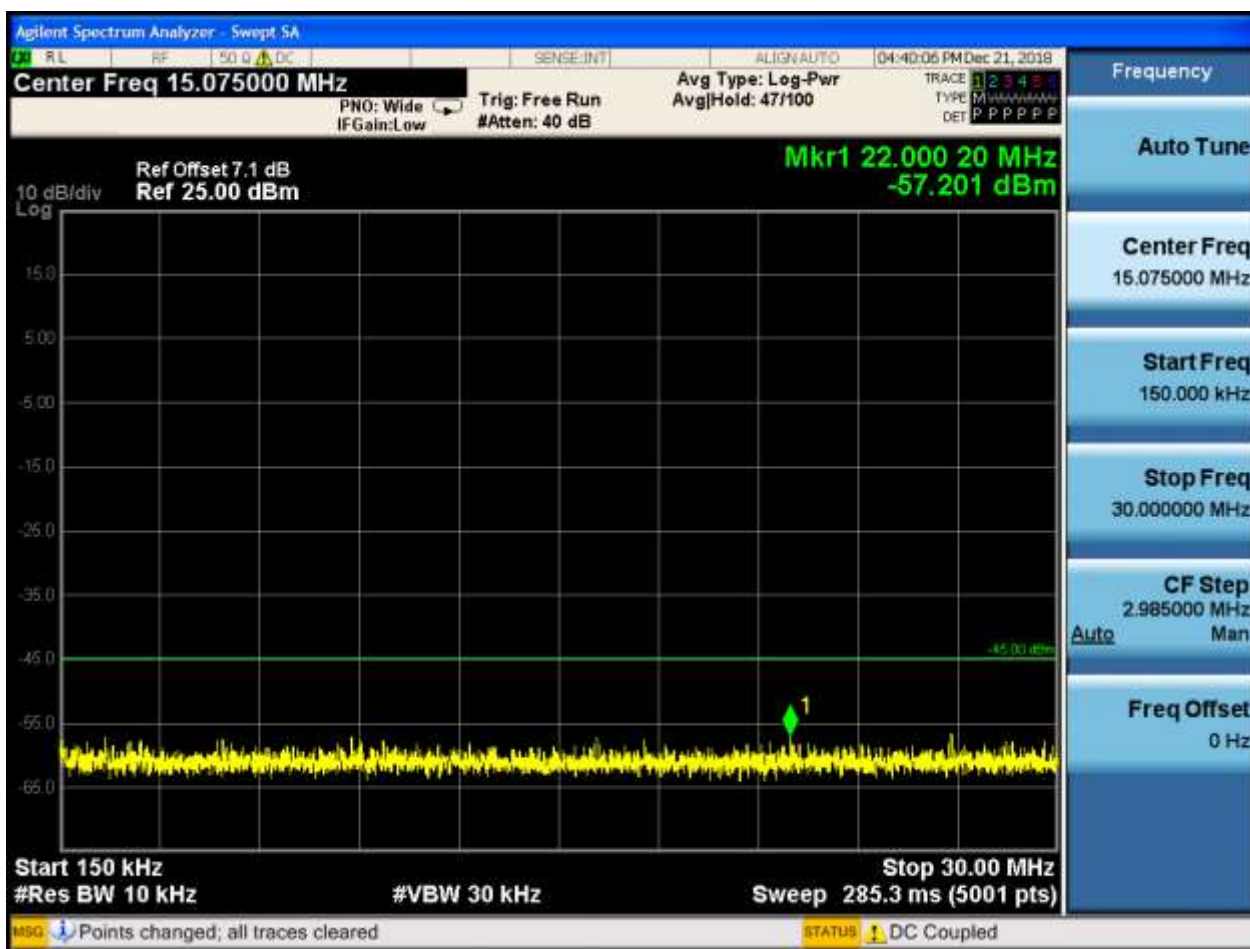




6.1.1.1.3.2 Test Channel = MCH

6.1.1.1.3.2.1 Test RB = RB1#0



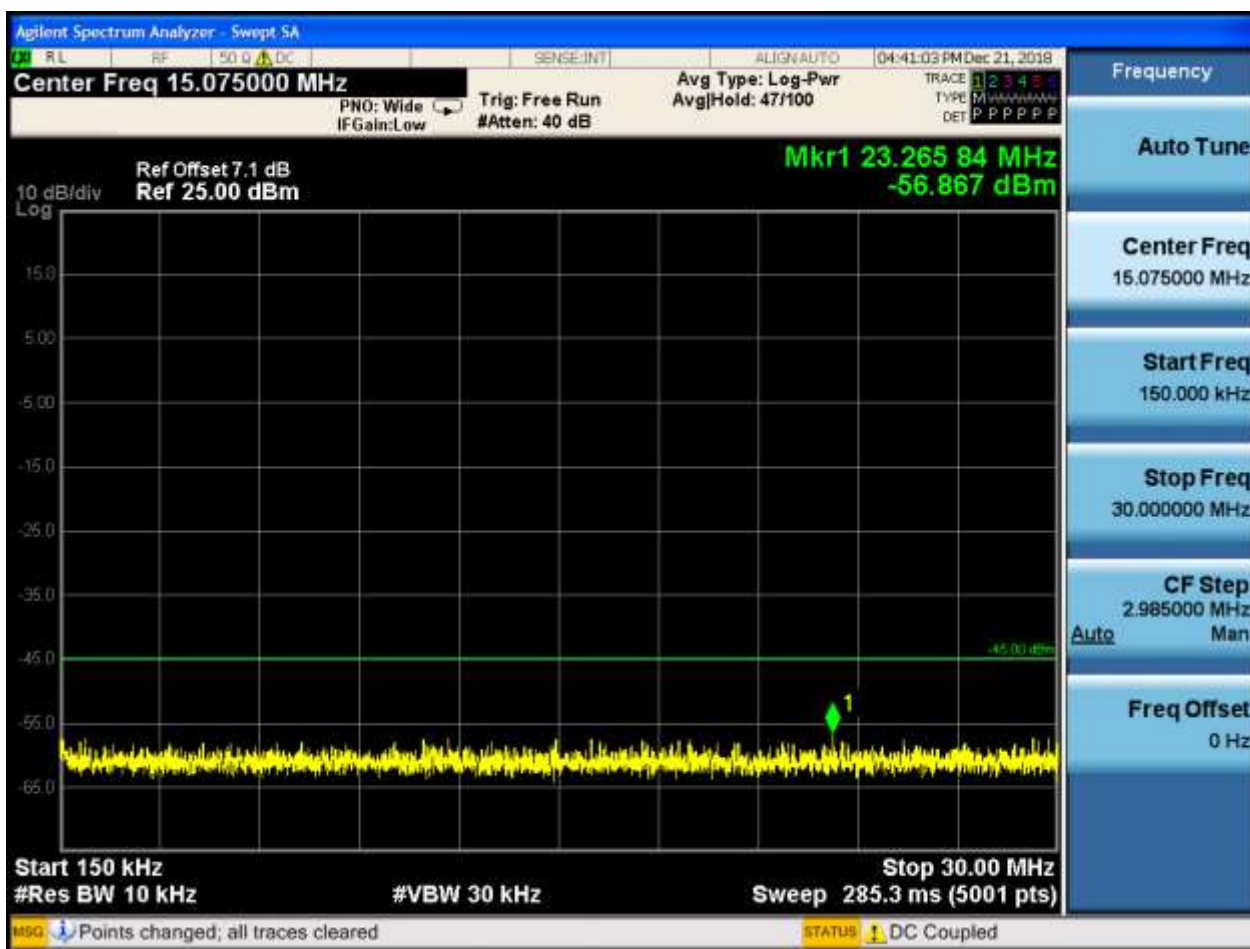




6.1.1.1.3.3 Test Channel = HCH

6.1.1.1.3.3.1 Test RB = RB1#0





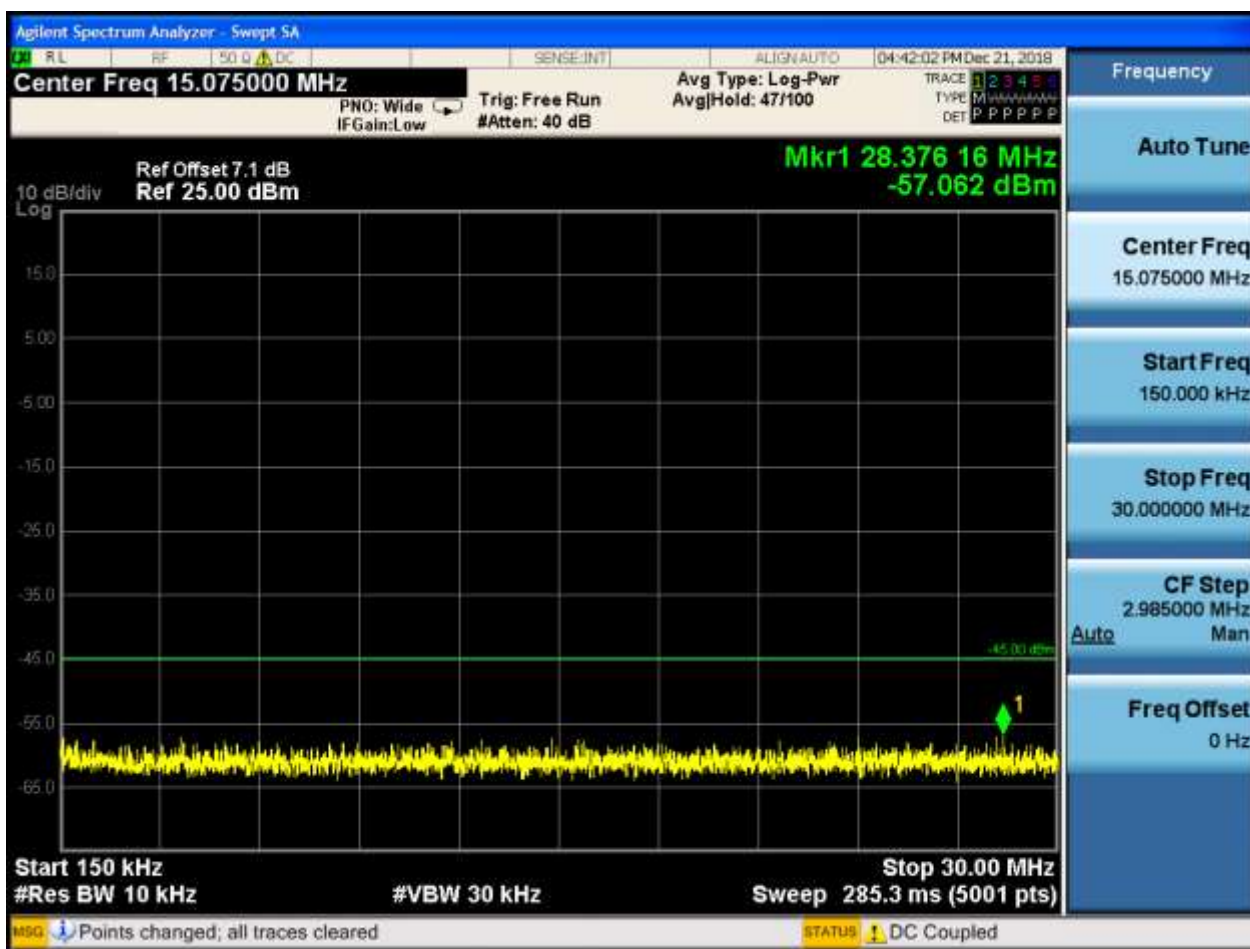


6.1.1.1.4 Test Bandwidth = 20

6.1.1.1.4.1 Test Channel = LCH

6.1.1.1.4.1.1 Test RB = RB1#0



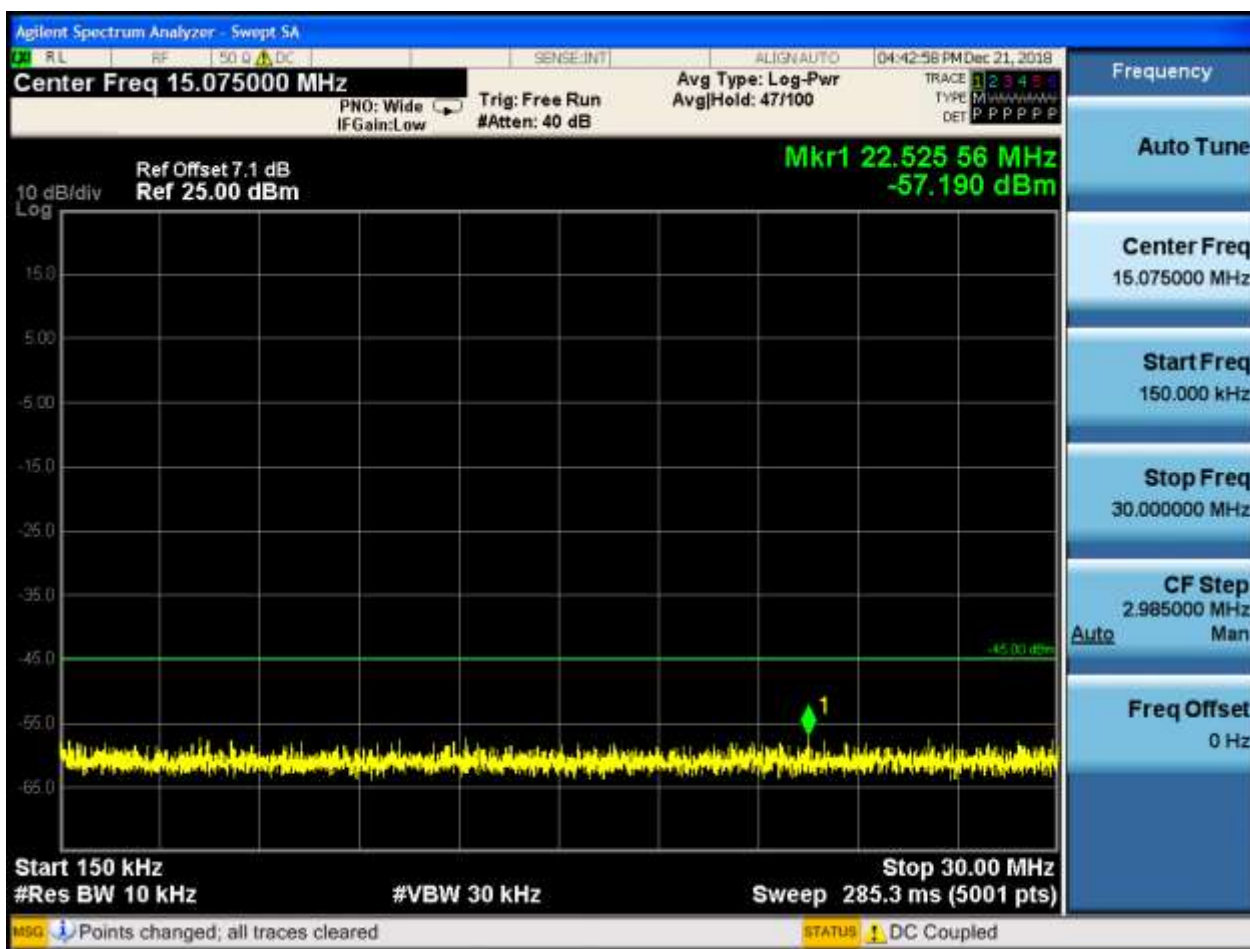




6.1.1.1.4.2 Test Channel = MCH

6.1.1.1.4.2.1 Test RB = RB1#0



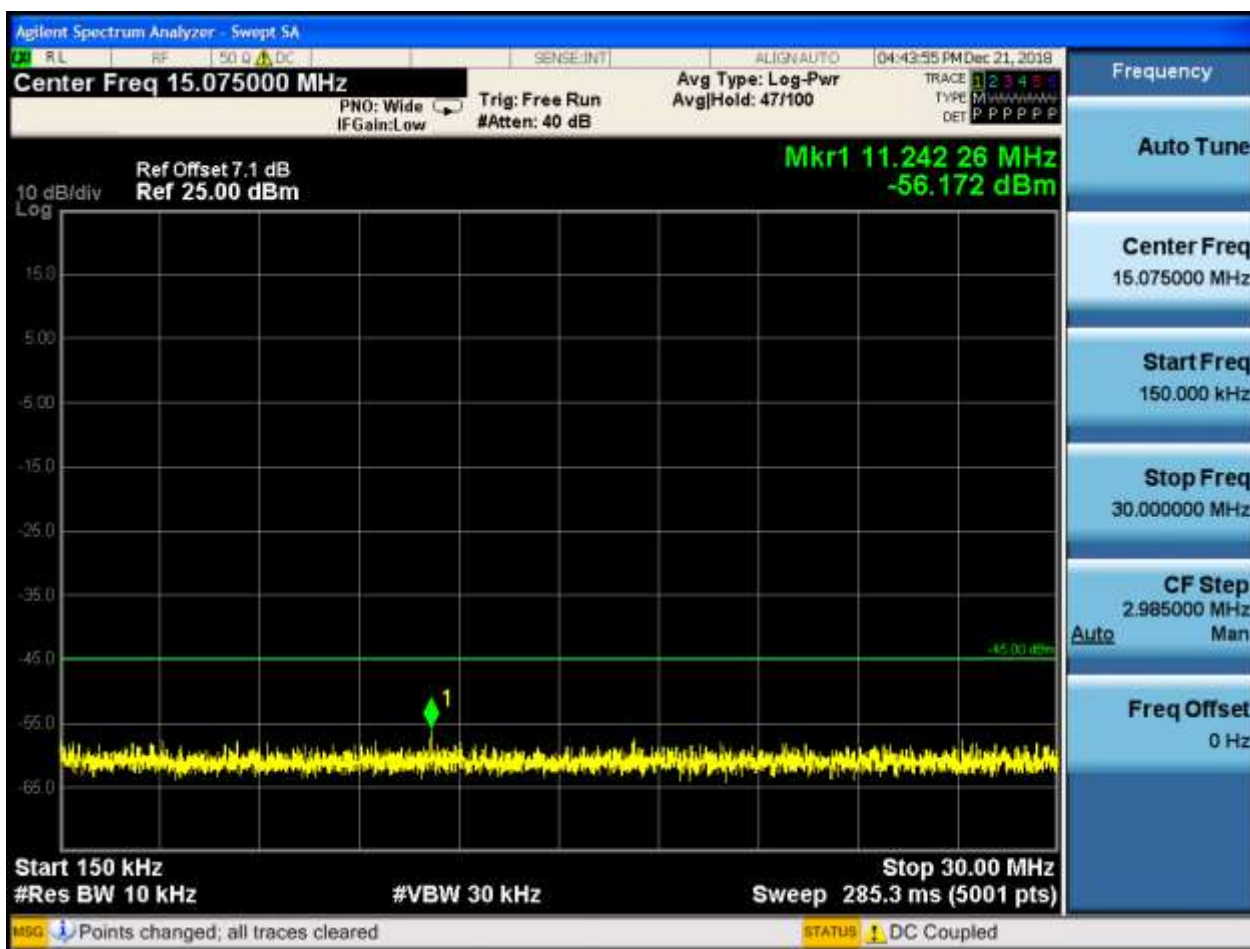




6.1.1.1.4.3 Test Channel = HCH

6.1.1.1.4.3.1 Test RB = RB1#0







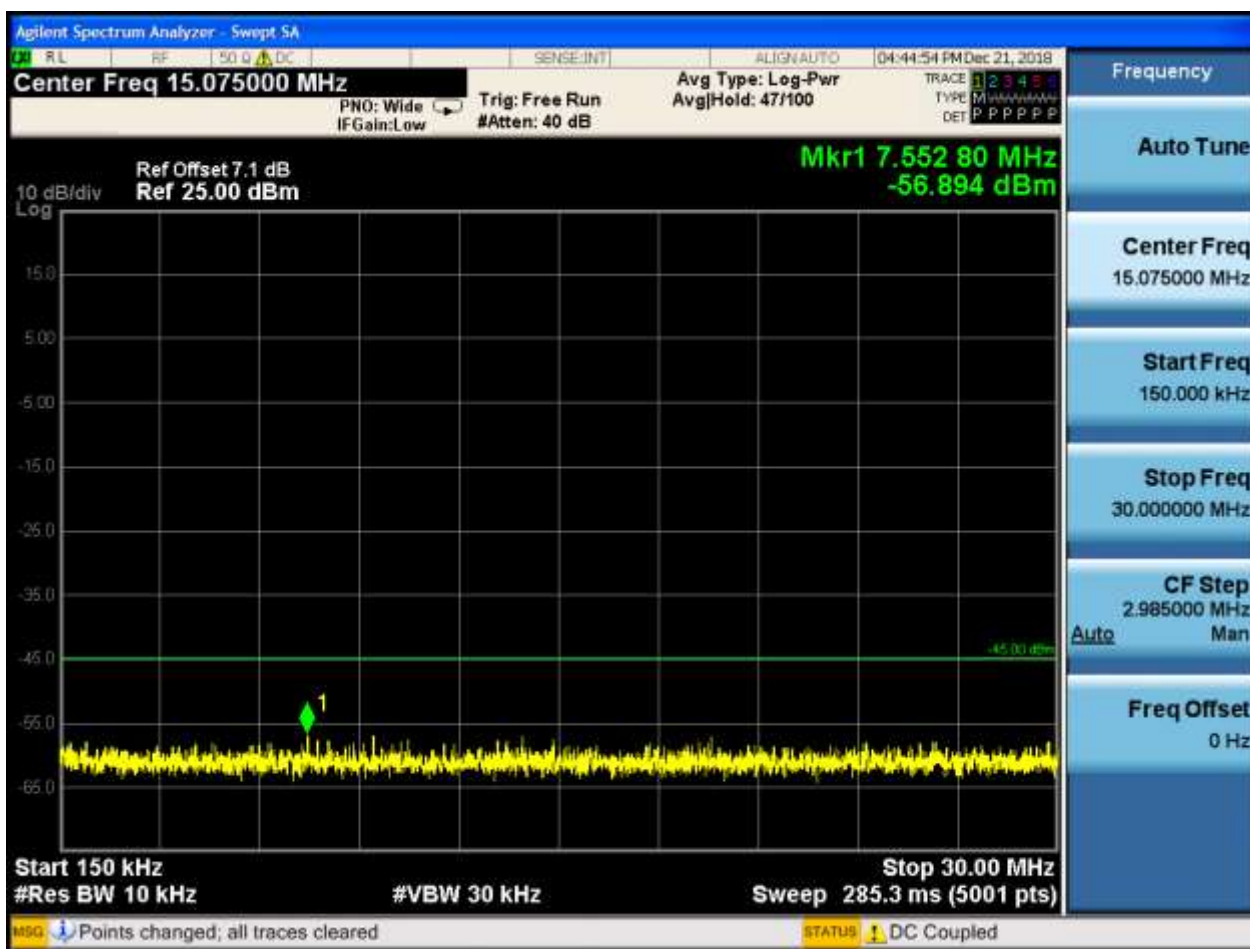
6.1.1.2 Test Mode = LTE/TM2

6.1.1.2.1 Test Bandwidth = 5

6.1.1.2.1.1 Test Channel = LCH

6.1.1.2.1.1.1 Test RB = RB1#0



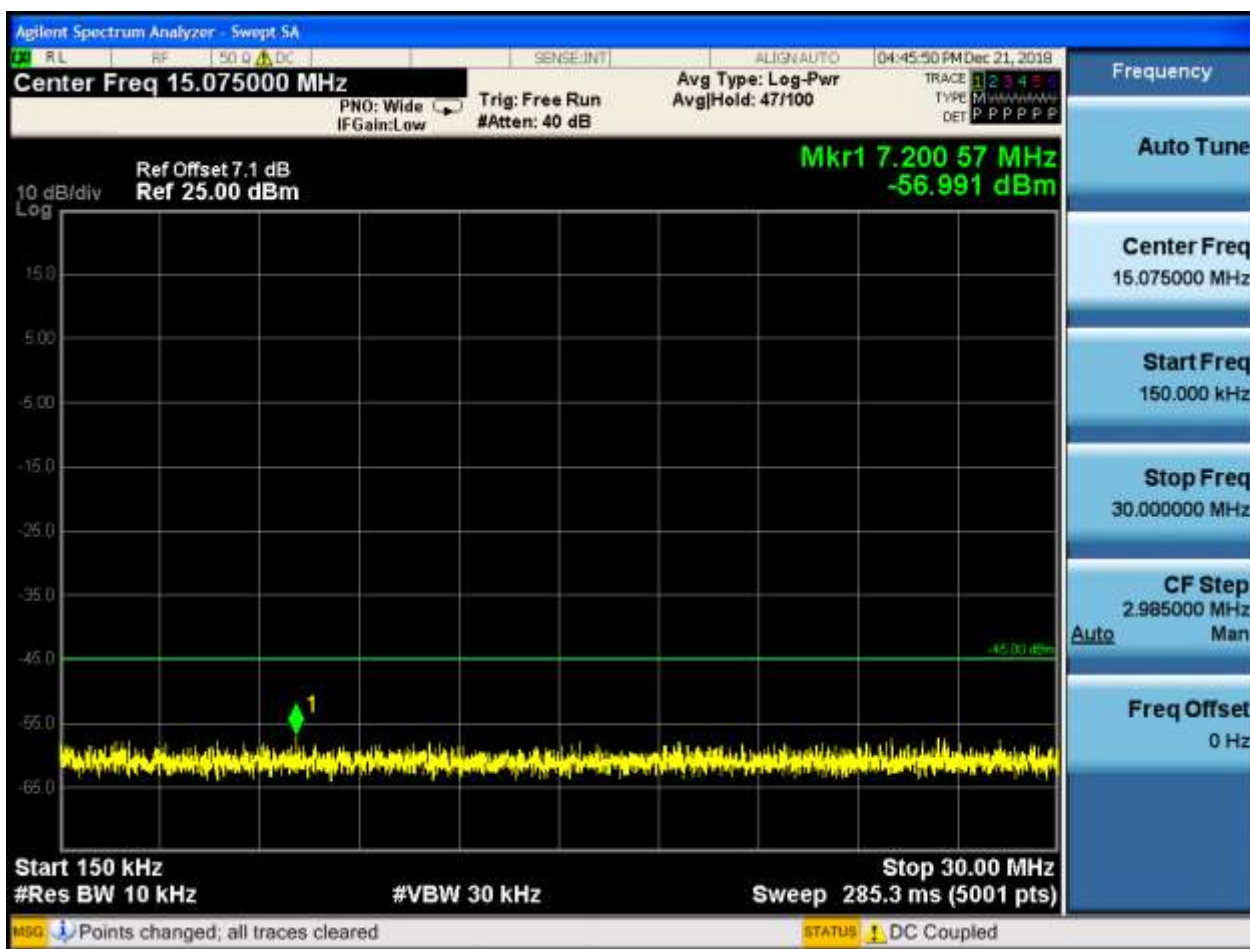




6.1.1.2.1.2 Test Channel = MCH

6.1.1.2.1.2.1 Test RB = RB1#0



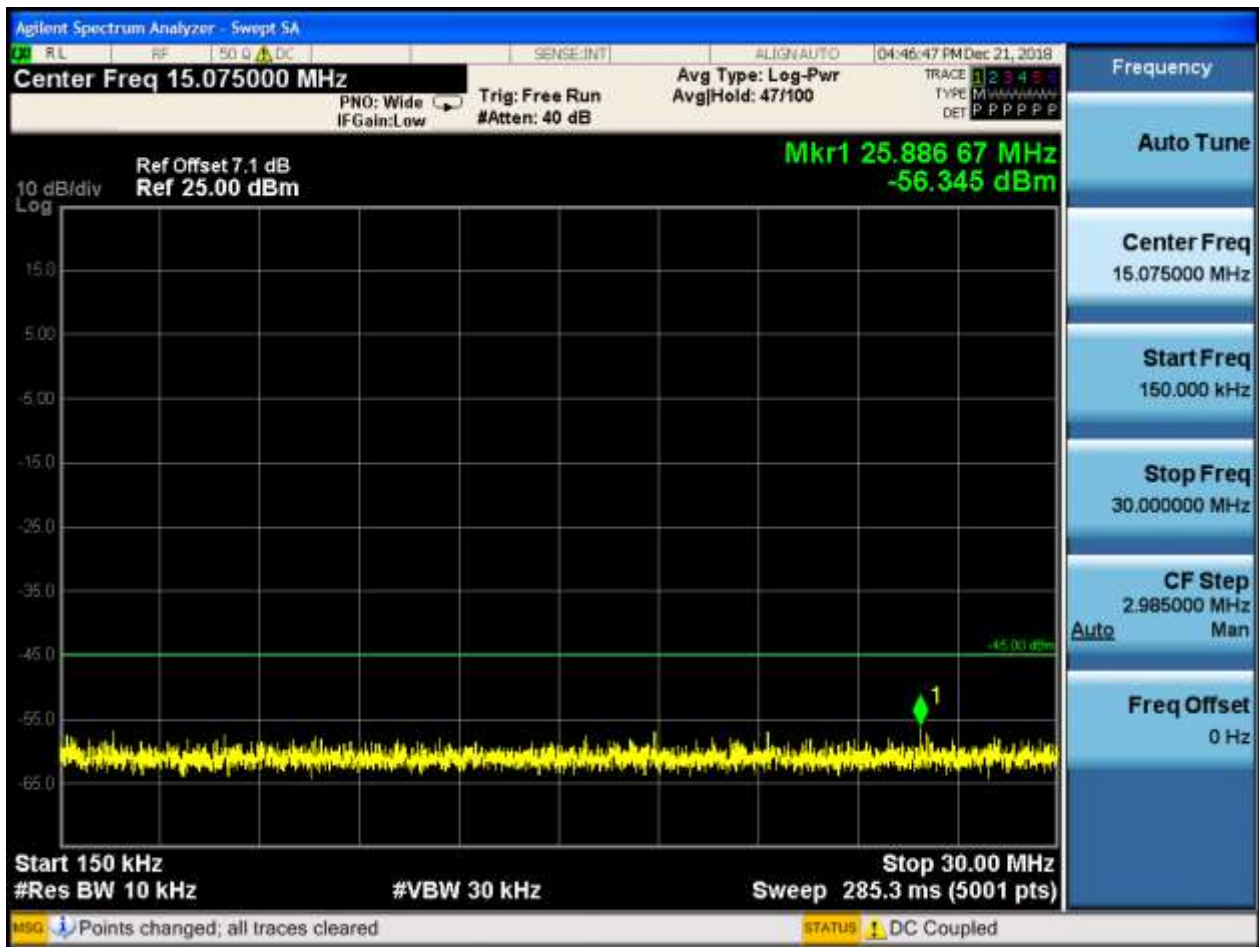




6.1.1.2.1.3 Test Channel = HCH

6.1.1.2.1.3.1 Test RB = RB1#0





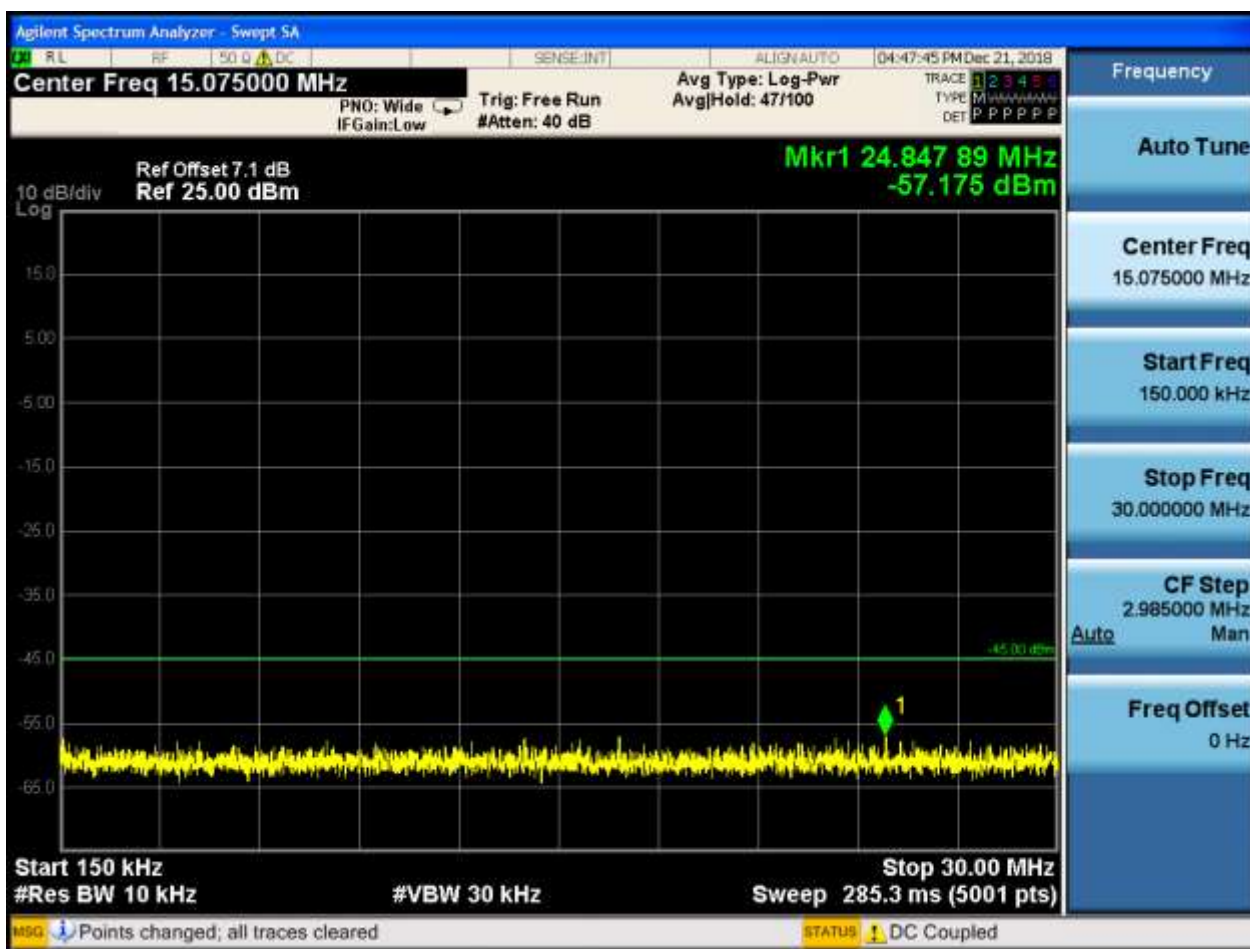


6.1.1.2.2 Test Bandwidth = 10

6.1.1.2.2.1 Test Channel = LCH

6.1.1.2.2.1.1 Test RB = RB1#0



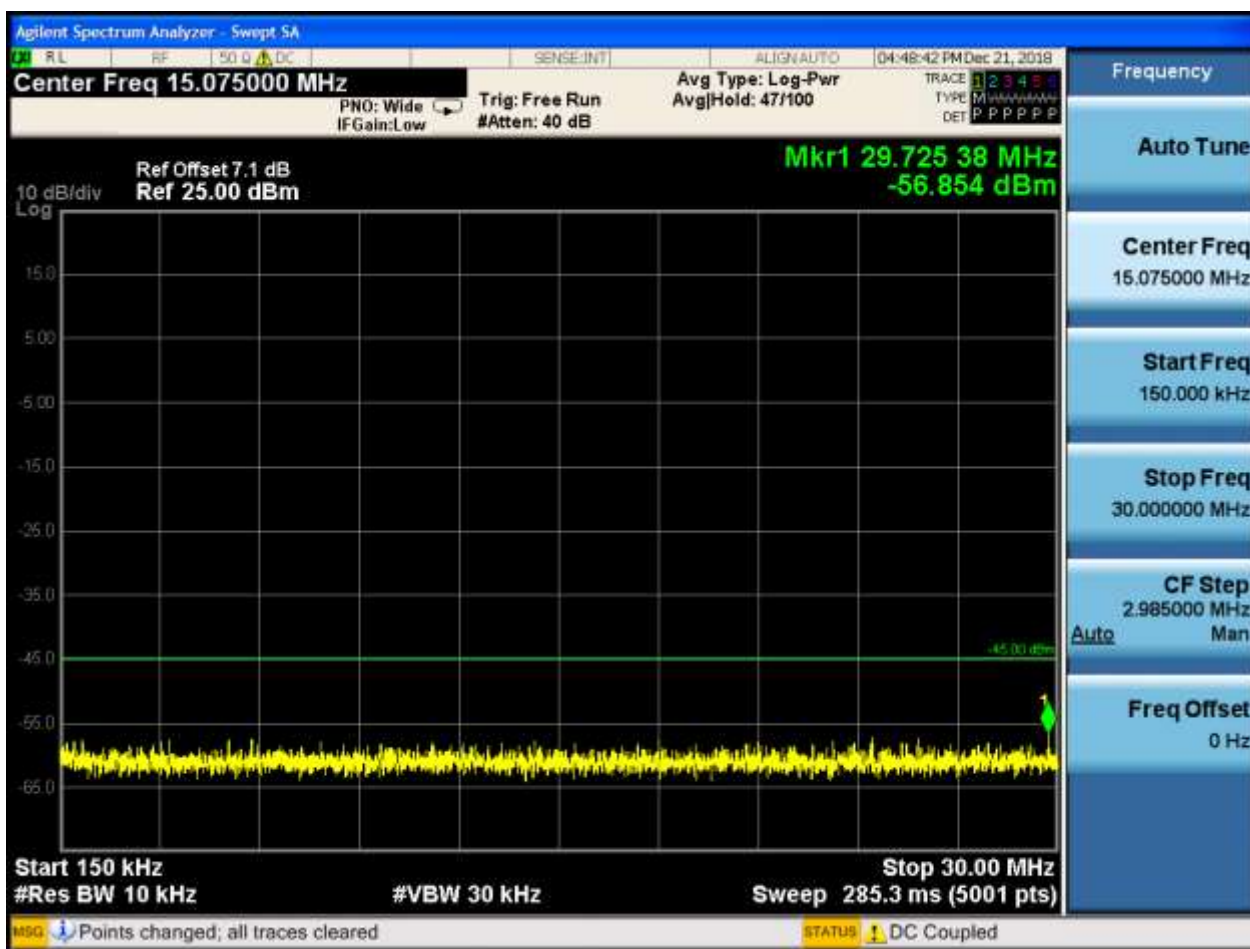




6.1.1.2.2.2 Test Channel = MCH

6.1.1.2.2.2.1 Test RB = RB1#0



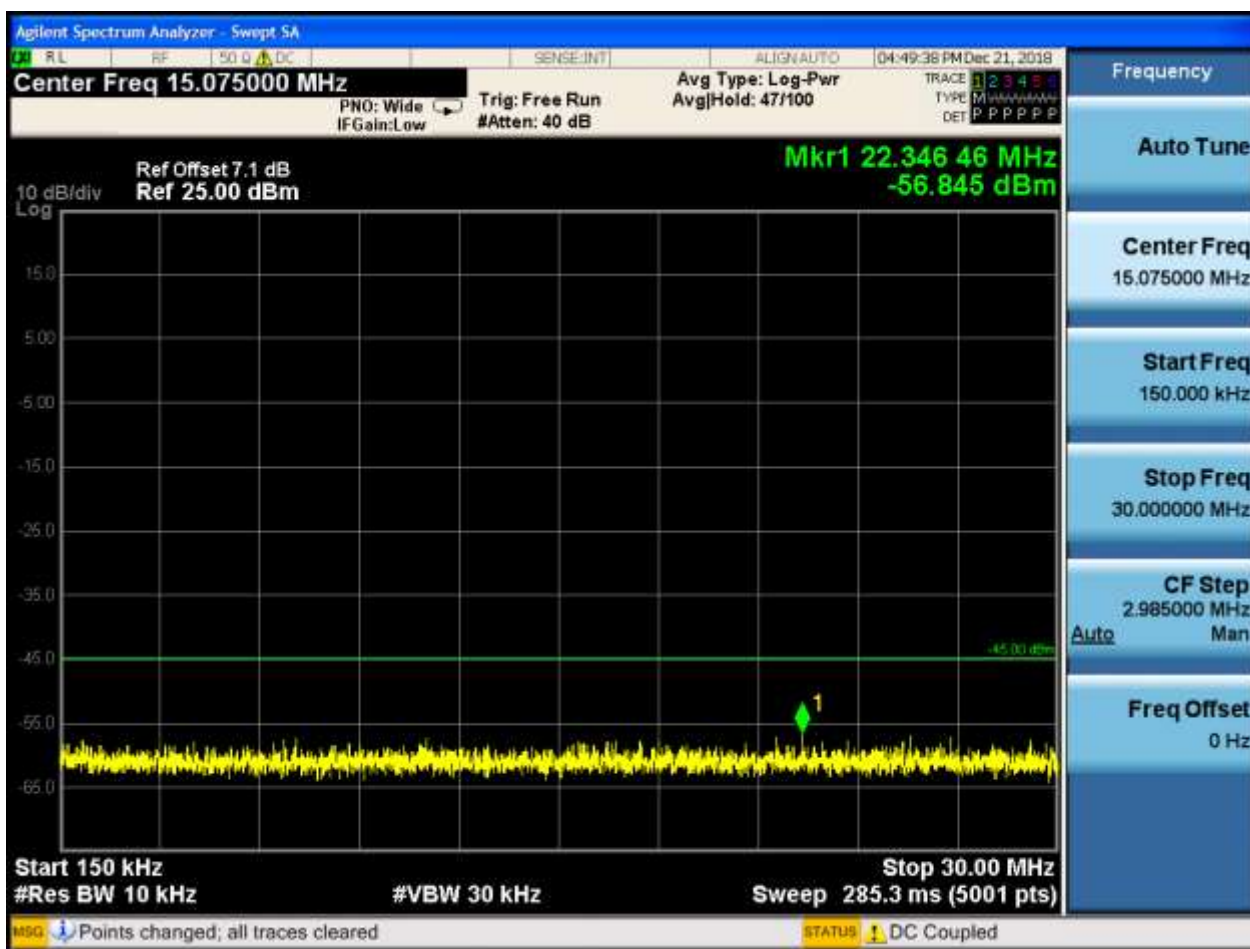




6.1.1.2.2.3 Test Channel = HCH

6.1.1.2.2.3.1 Test RB = RB1#0





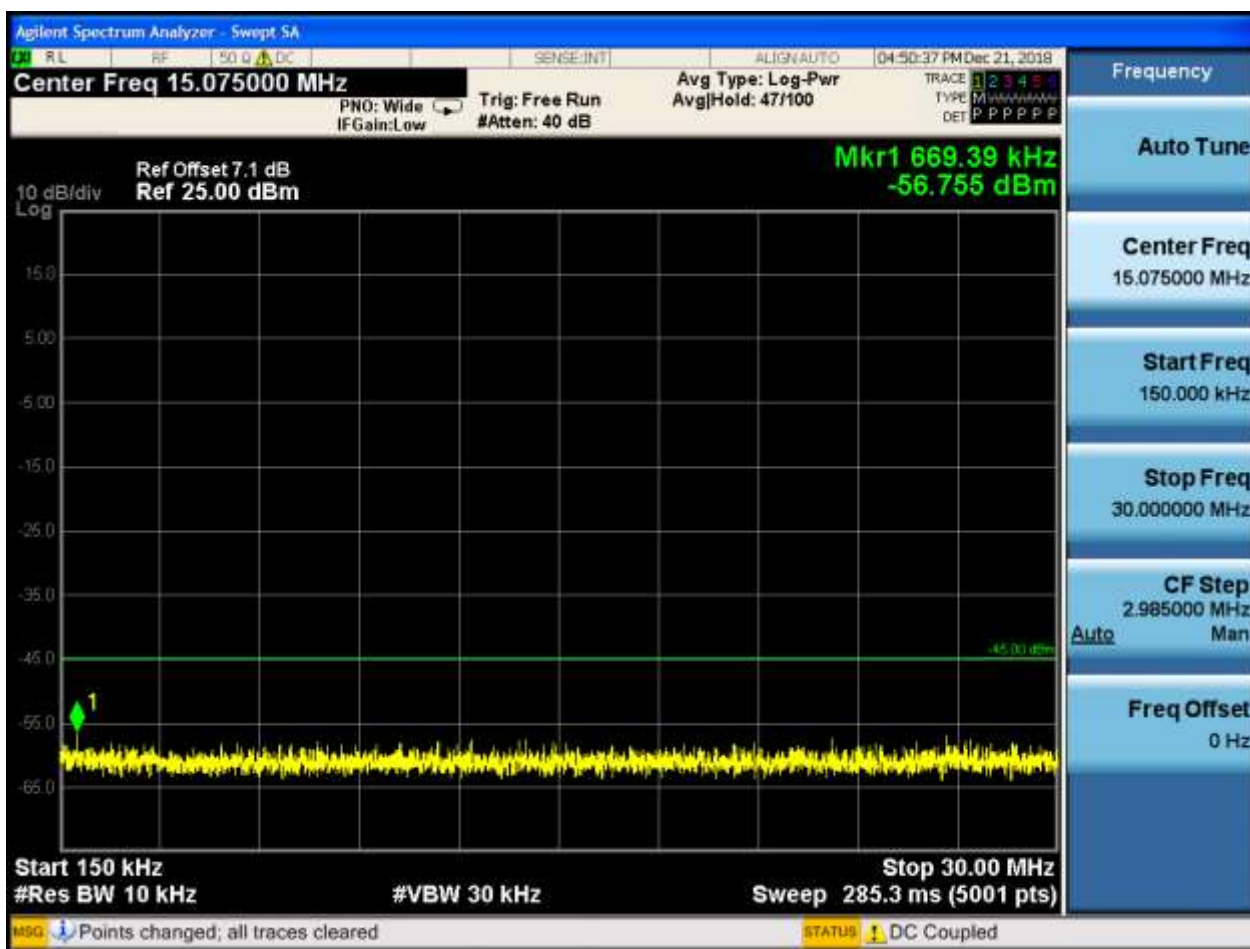


6.1.1.2.3 Test Bandwidth = 15

6.1.1.2.3.1 Test Channel = LCH

6.1.1.2.3.1.1 Test RB = RB1#0

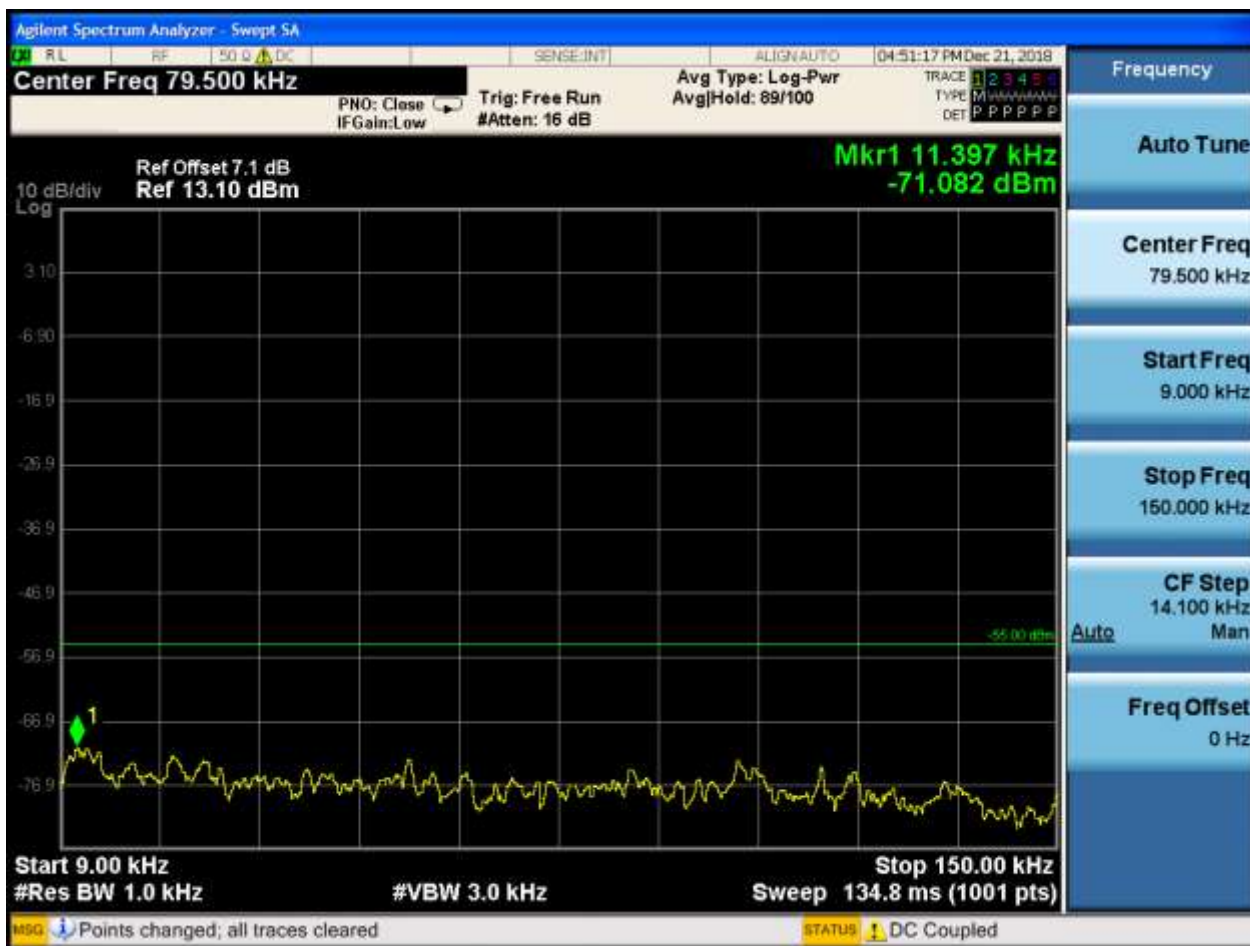


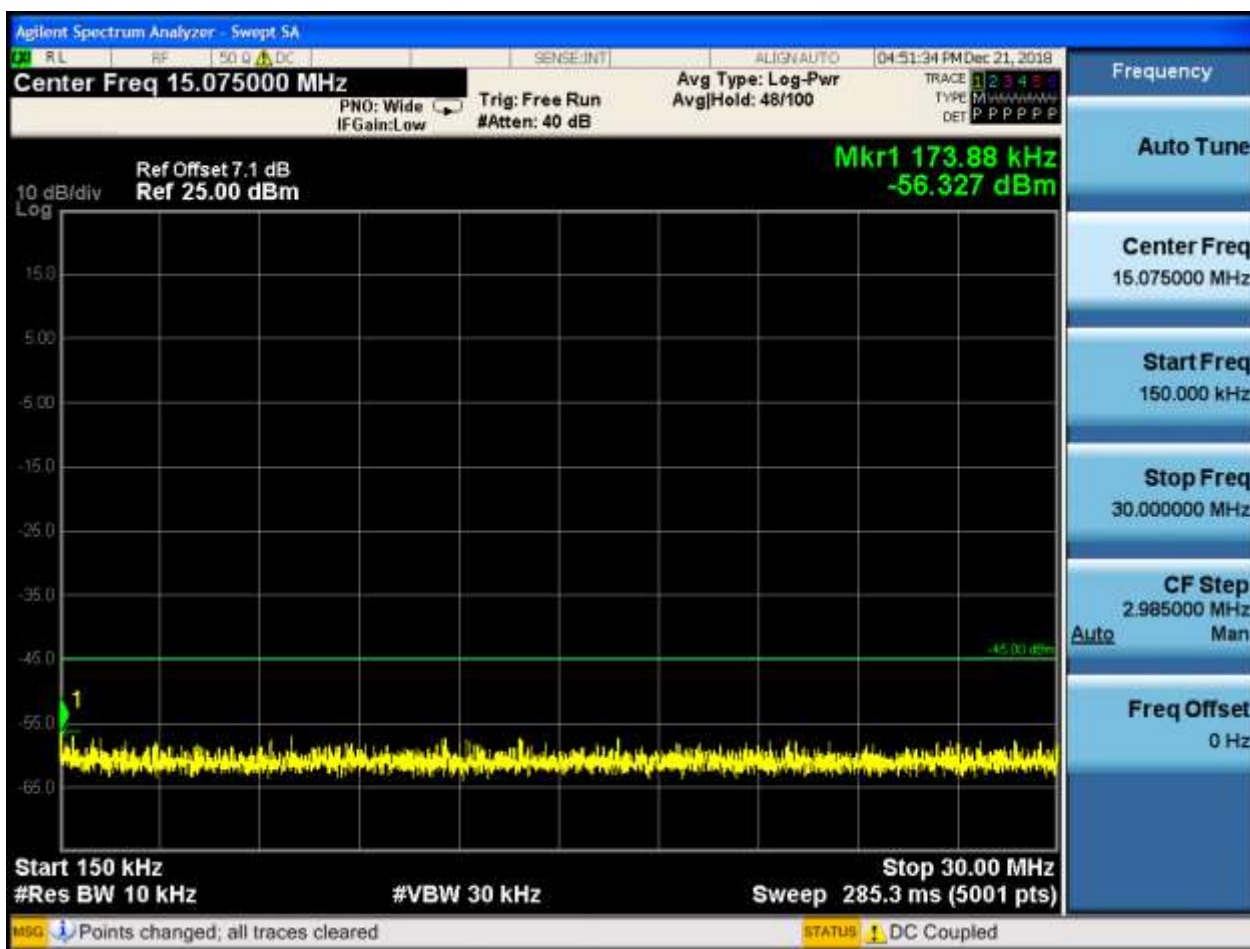




6.1.1.2.3.2 Test Channel = MCH

6.1.1.2.3.2.1 Test RB = RB1#0



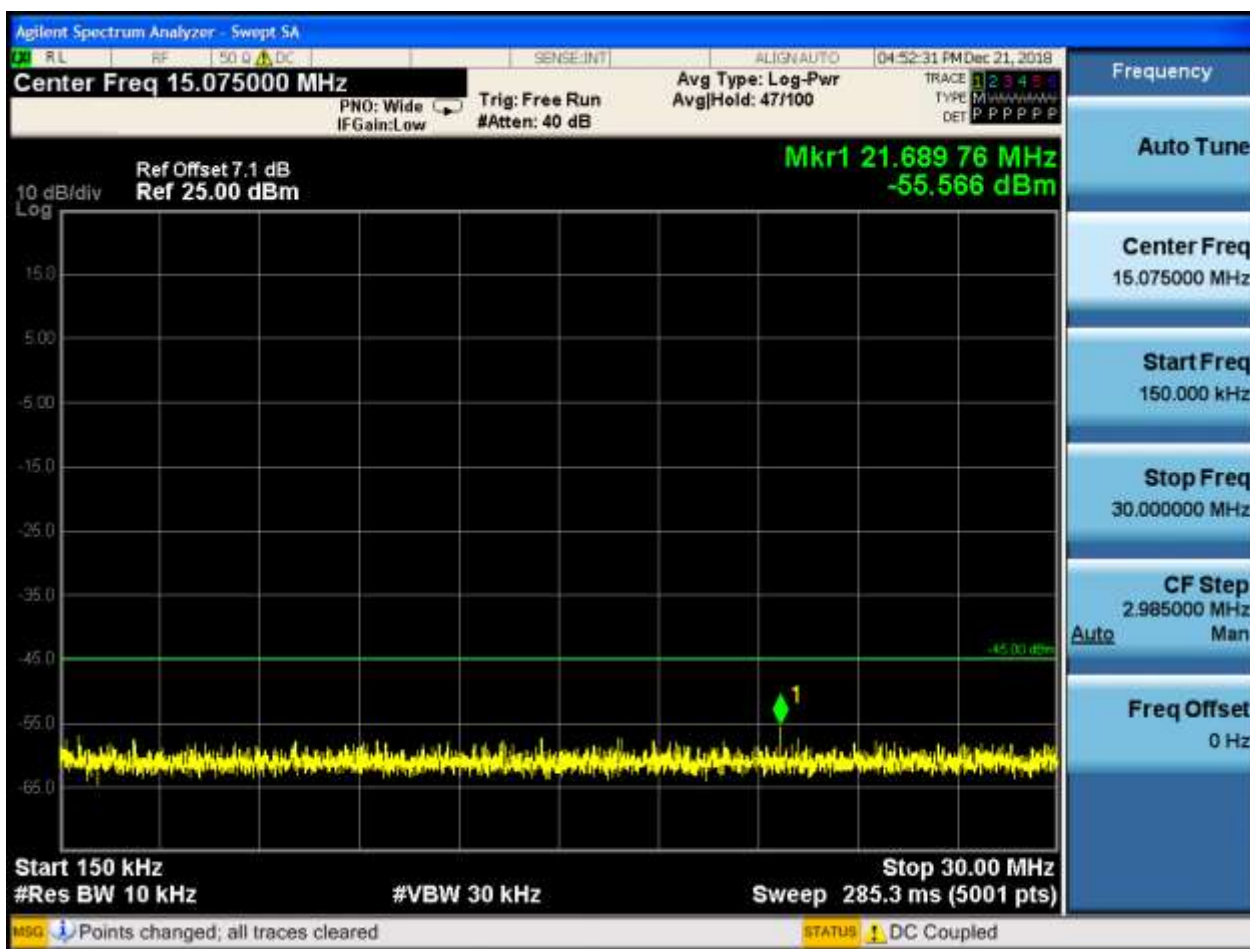




6.1.1.2.3.3 Test Channel = HCH

6.1.1.2.3.3.1 Test RB = RB1#0





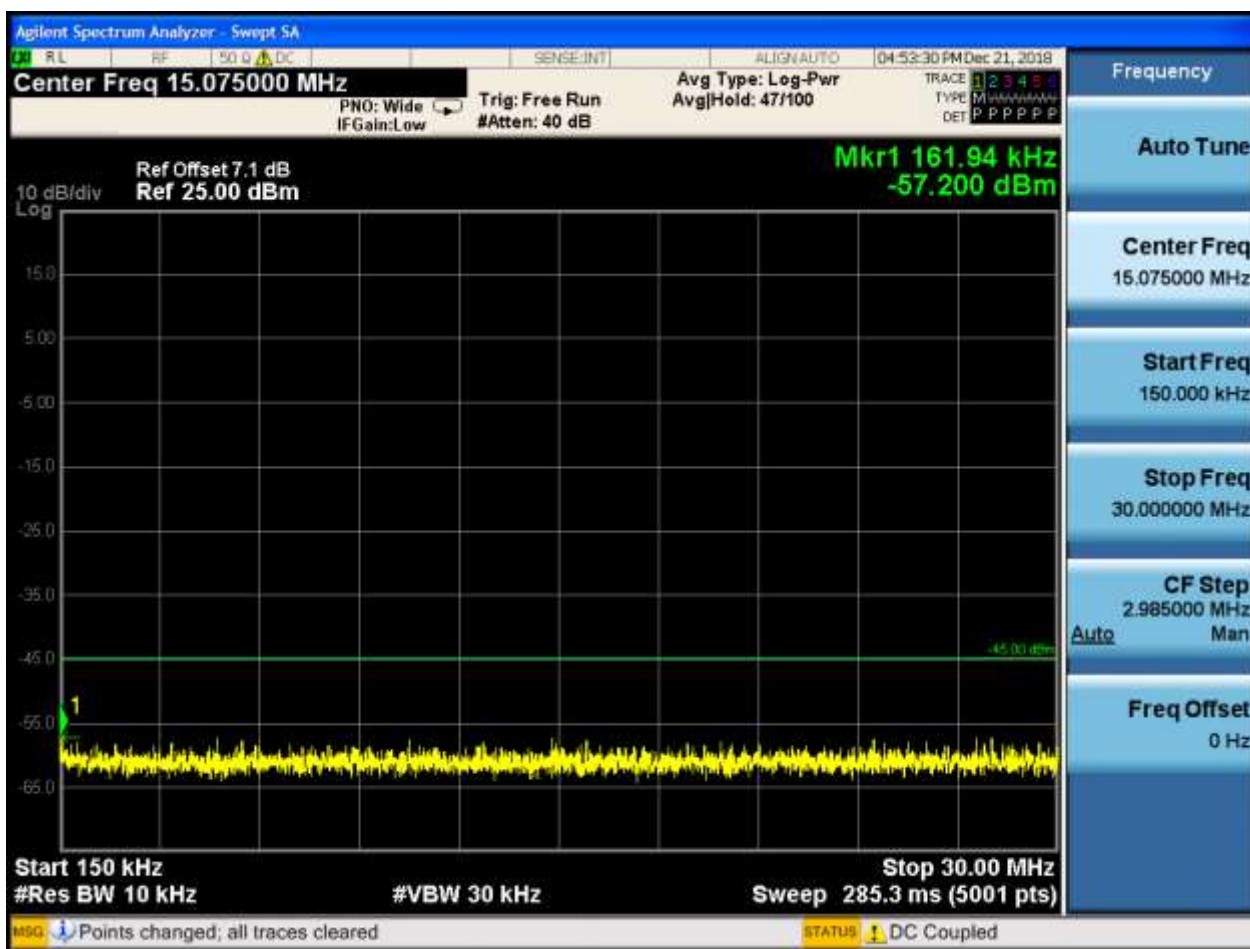


6.1.1.2.4 Test Bandwidth = 20

6.1.1.2.4.1 Test Channel = LCH

6.1.1.2.4.1.1 Test RB = RB1#0



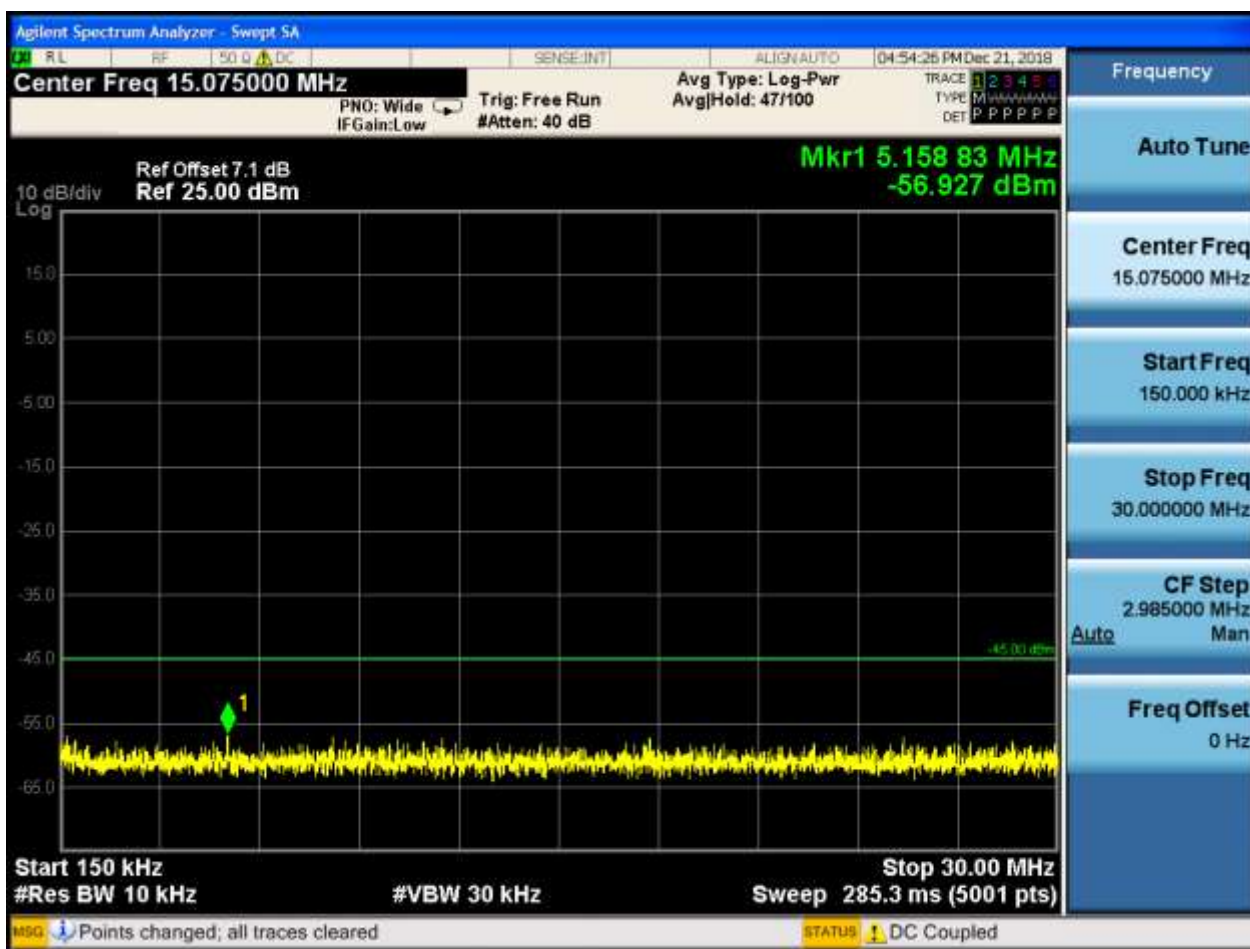




6.1.1.2.4.2 Test Channel = MCH

6.1.1.2.4.2.1 Test RB = RB1#0



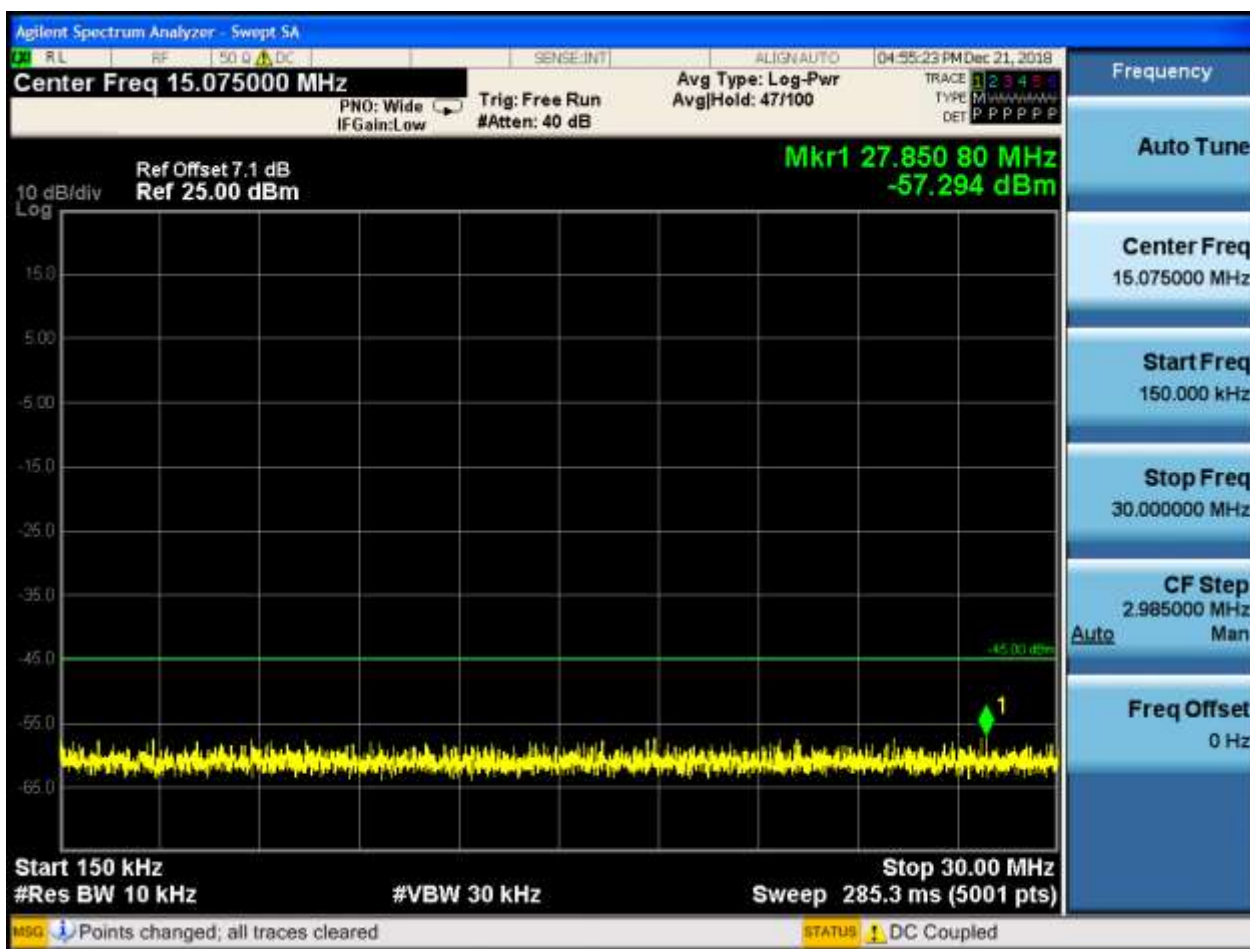




6.1.1.2.4.3 Test Channel = HCH

6.1.1.2.4.3.1 Test RB = RB1#0







7Appendix_G: Field Strength of Spurious Radiation

Note: We tested all modes, but the data presented below is the worst case.

9kHz~150kHz, RBW = 200Hz, VBW = 600 Hz, Detector: PK

150kHz~30MHz, RBW = 9kHz, VBW = 30k Hz, Detector: PK

30MHz~1GHz, RBW = 100 kHz, VBW = 300 kHz. Detector: PK

Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

Part I - Test Plots

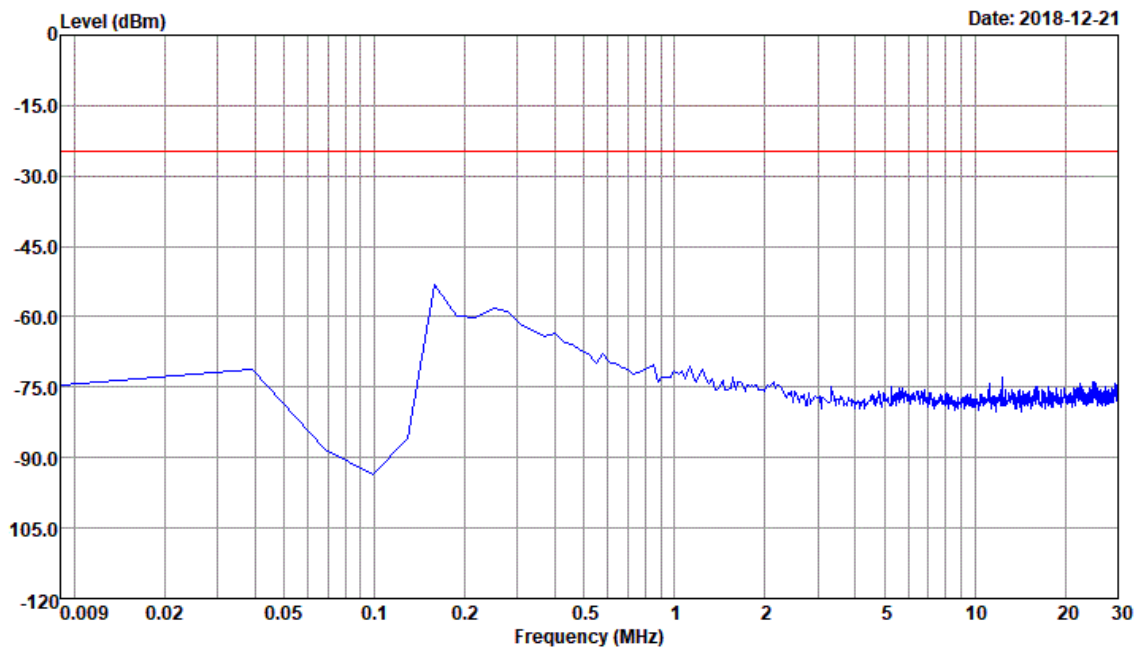
7.1 For LTE

7.1.1 Test Band = Band7

7.1.1.1 Test Bandwidth = 5

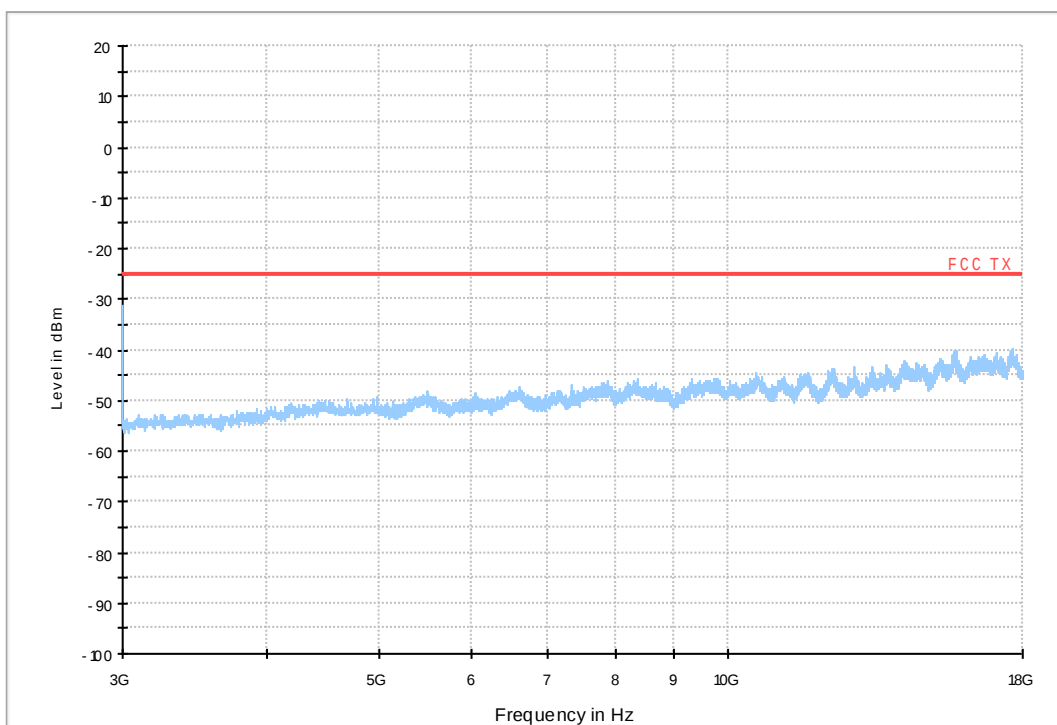


Data: 68

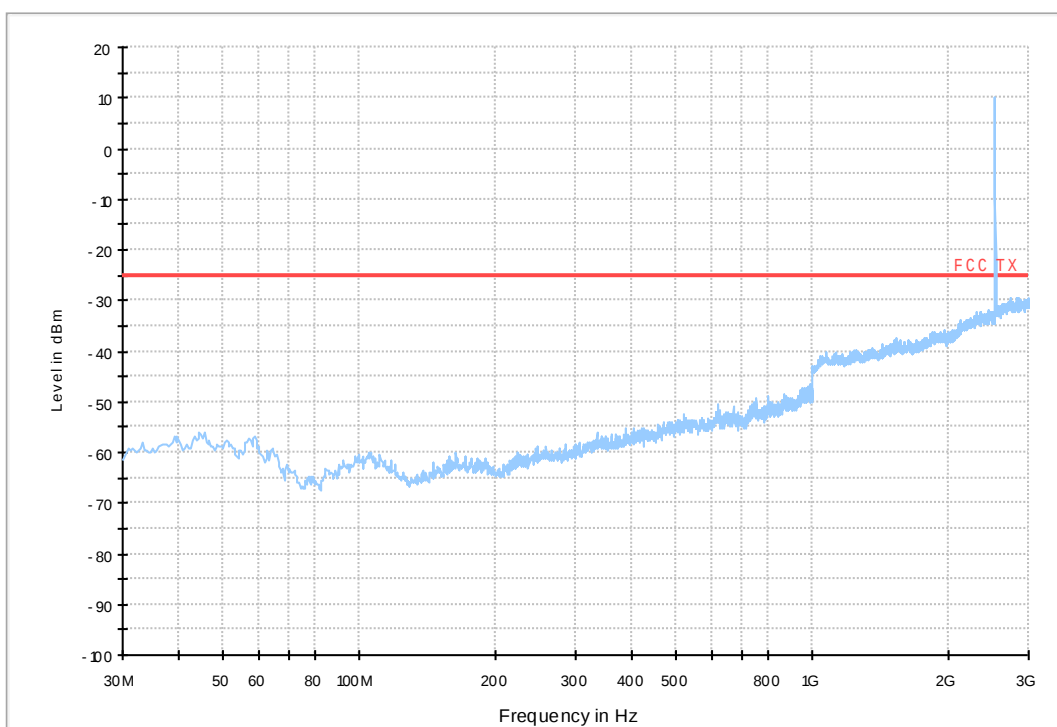


Site : 03CH01-SZ
Condition : -13DBM 9K-30M AMP NEUTRAL
: RBW:9.000KHz VBW:30.000KHz

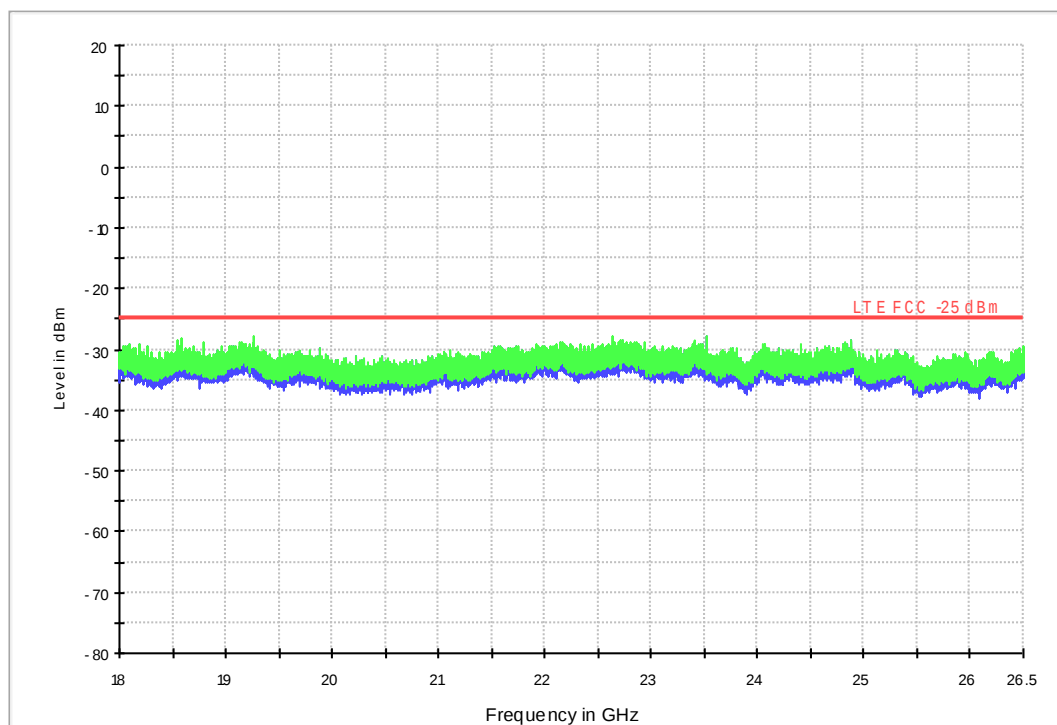
LTE FDD Band 7 RSE-TX-DIRECTOR ABOVE 1.5G_H -25dBm limit



LTE Band 7 RSE-TX-DIRECTOR ABOVE 1.5G_L -25dBm limit



18G~26.5G R SE-T X-DIRECT OR ABOVE 1.5G PK

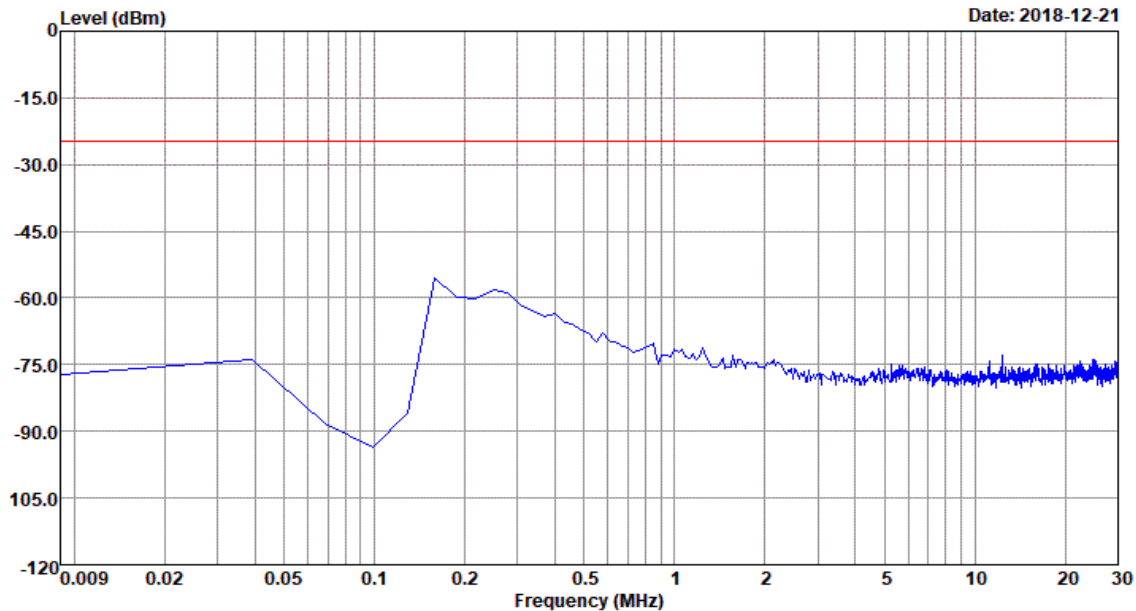


7.1.1.2 Test Bandwidth = 20



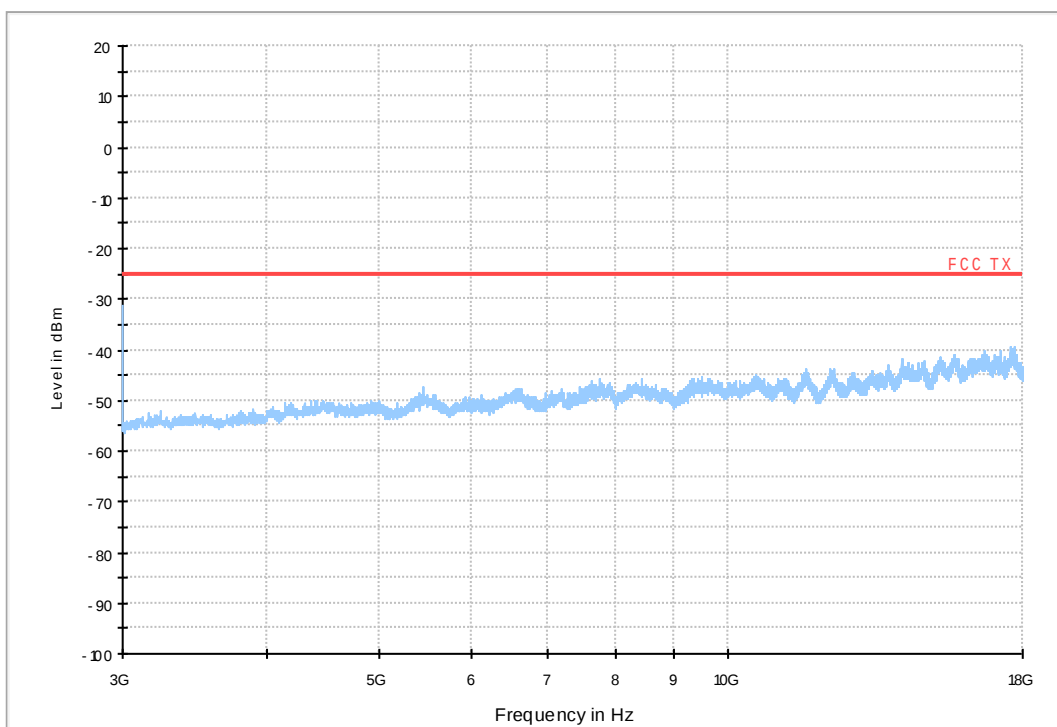
Data: 67

Date: 2018-12-21

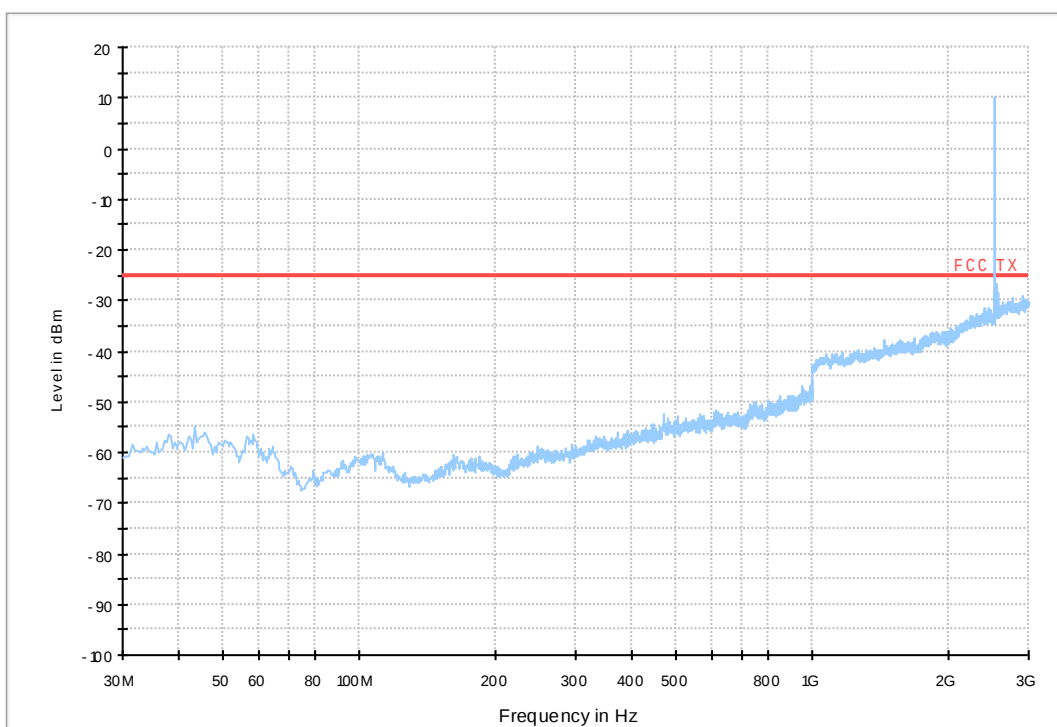


Site : 03CH01-SZ
 Condition : -13DBM 9K-30M AMP NEUTRAL
 : RBW:9.000KHz VBW:30.000KHz

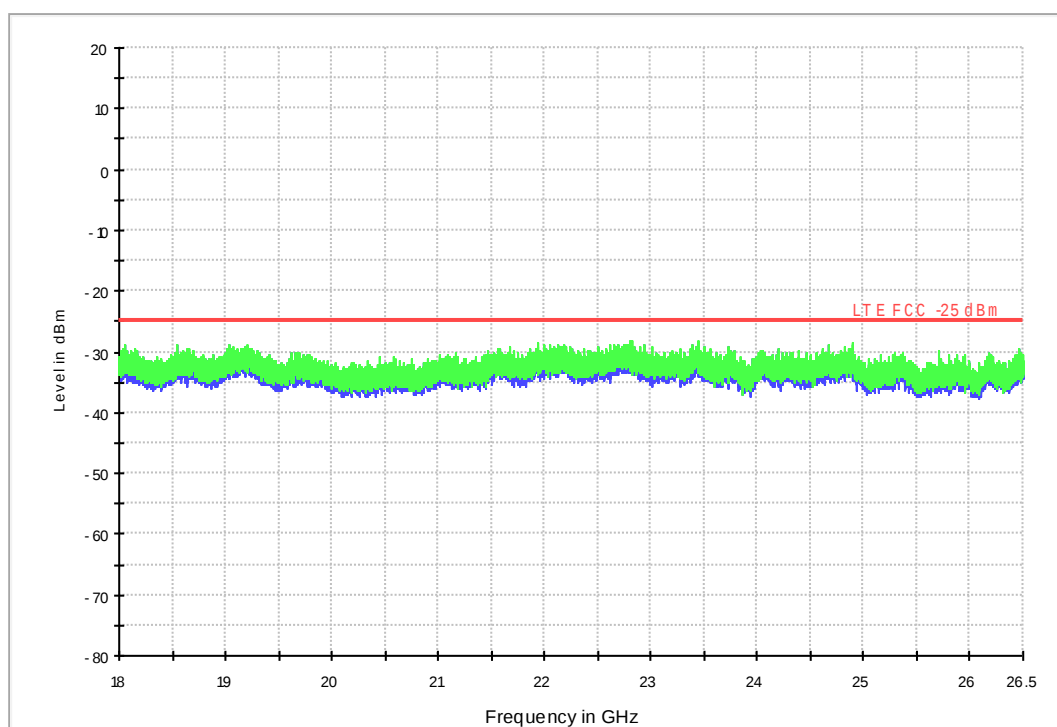
LTE FDD Band 7 RSE-TX-DIRECTOR ABOVE 1.5G_H -25dBm limit



LTE Band 7 RSE-TX-DIRECTOR ABOVE 1.5G_L -25dBm limit



18G~26.5G RSE-TX-DIRECTOR ABOVE 1.5G PK



8Appendix_H: Frequency Stability

8.1 For LTE

8.1.1Frequency Error vs. Voltage:

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
Band7	LTE/TM1	5	LCH	TN	VL	-7.83920	-0.00313	PASS
					VN	-10.11372	-0.00404	PASS
					VH	-11.87325	-0.00474	PASS
			MCH	TN	VL	-1.30177	-0.00051	PASS
					VN	-4.90665	-0.00194	PASS
					VH	-1.60217	-0.00063	PASS
			HCH	TN	VL	-3.21865	-0.00125	PASS
					VN	-7.66754	-0.00299	PASS
					VH	-3.01838	-0.00118	PASS
		10	LCH	TN	VL	-5.59330	-0.00223	PASS
					VN	-4.86374	-0.00194	PASS
					VH	-7.10964	-0.00284	PASS
			MCH	TN	VL	-5.16415	-0.00204	PASS
					VN	-1.35899	-0.00054	PASS
					VH	-2.57492	-0.00102	PASS
			HCH	TN	VL	-2.88963	-0.00113	PASS
					VN	-3.94821	-0.00154	PASS
					VH	-4.93527	-0.00192	PASS
		15	LCH	TN	VL	-4.09126	-0.00163	PASS
					VN	-8.26836	-0.00330	PASS
					VH	-4.70638	-0.00188	PASS
			MCH	TN	VL	-1.77383	-0.00070	PASS
					VN	-3.56197	-0.00141	PASS
					VH	-1.91688	-0.00076	PASS
			HCH	TN	VL	-8.68320	-0.00339	PASS
					VN	-3.99113	-0.00156	PASS
					VH	-8.13961	-0.00318	PASS
		20	LCH	TN	VL	-2.01702	-0.00080	PASS
					VN	-5.47886	-0.00218	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
			MCH	TN	VH	-6.35147	-0.00253	PASS
					VL	-0.20027	-0.00008	PASS
					VN	-5.23567	-0.00207	PASS
					VH	-2.10285	-0.00083	PASS
			HCH	TN	VL	-2.13146	-0.00083	PASS
					VN	-9.19819	-0.00359	PASS
					VH	-2.46048	-0.00096	PASS
			LCH	TN	VL	-3.79086	-0.00151	PASS
					VN	-4.37737	-0.00175	PASS
					VH	-3.91960	-0.00157	PASS
			MCH	TN	VL	-5.03540	-0.00199	PASS
					VN	-6.05106	-0.00239	PASS
					VH	-1.91688	-0.00076	PASS
	LTE/TM2	5	HCH	TN	VL	-4.52042	-0.00176	PASS
					VN	-5.22137	-0.00203	PASS
					VH	-4.07696	-0.00159	PASS
			LCH	TN	VL	-7.08103	-0.00283	PASS
					VN	-2.93255	-0.00117	PASS
					VH	-3.07560	-0.00123	PASS
			MCH	TN	VL	-2.10285	-0.00083	PASS
					VN	-4.96387	-0.00196	PASS
					VH	-4.46320	-0.00176	PASS
			HCH	TN	VL	-2.31743	-0.00090	PASS
					VN	-2.91824	-0.00114	PASS
					VH	-4.62055	-0.00180	PASS
		10	LCH	TN	VL	-3.08990	-0.00123	PASS
					VN	-8.06808	-0.00322	PASS
					VH	-2.54631	-0.00102	PASS
			MCH	TN	VL	-1.93119	-0.00076	PASS
					VN	-1.71661	-0.00068	PASS
					VH	-1.90258	-0.00075	PASS
			HCH	TN	VL	0.54359	0.00021	PASS
					VN	-2.67506	-0.00104	PASS
					VH	-7.86781	-0.00307	PASS
		15	LCH	TN	VL	55.07469	0.02194	PASS
					VN	-3.23296	-0.00129	PASS
					VH	-2.54631	-0.00101	PASS
			MCH	TN	VL	-2.80380	-0.00111	PASS
		20	LCH	TN				
			MCH	TN				

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
				TN	VN	-8.49724	-0.00335	PASS
					VH	-3.14712	-0.00124	PASS
			HCH		VL	-7.00951	-0.00274	PASS
					VN	-7.46727	-0.00292	PASS
					VH	-6.62327	-0.00259	PASS

8.1.2 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
Band7	LTE/TM1	5	LCH	VN	-30	-6.60896	-0.00264	PASS
					-20	-9.39846	-0.00376	PASS
					-10	-8.21114	-0.00328	PASS
					0	-9.88483	-0.00395	PASS
					10	-7.26700	-0.00290	PASS
					20	-10.11372	-0.00404	PASS
					30	-7.52449	-0.00301	PASS
					40	-11.37257	-0.00454	PASS
					50	-12.76016	-0.00510	PASS
			MCH	VN	-30	-4.13418	-0.00163	PASS
					-20	-6.88076	-0.00271	PASS
					-10	-2.08855	-0.00082	PASS
					0	-4.40597	-0.00174	PASS
					10	-6.55174	-0.00258	PASS
					20	-4.90665	-0.00194	PASS
					30	-9.34124	-0.00368	PASS
					40	-3.34740	-0.00132	PASS
					50	-6.20842	-0.00245	PASS
			HCH	VN	-30	-5.59330	-0.00218	PASS
					-20	-2.24590	-0.00087	PASS
					-10	-4.07696	-0.00159	PASS
					0	-6.19412	-0.00241	PASS
					10	-2.90394	-0.00113	PASS
					20	-7.66754	-0.00299	PASS
					30	-4.32015	-0.00168	PASS
					40	-4.69208	-0.00183	PASS
					50	-5.06401	-0.00197	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
		10	LCH	VN	-30	-5.77927	-0.00231	PASS
					-20	-11.28674	-0.00451	PASS
					-10	-7.73907	-0.00309	PASS
					0	-6.03676	-0.00241	PASS
					10	-5.43594	-0.00217	PASS
					20	-4.86374	-0.00194	PASS
					30	-8.58307	-0.00343	PASS
					40	-10.72884	-0.00428	PASS
					50	-7.41005	-0.00296	PASS
			MCH	VN	-30	-5.26428	-0.00208	PASS
					-20	-5.36442	-0.00212	PASS
					-10	-7.43866	-0.00293	PASS
					0	-0.84400	-0.00033	PASS
					10	-7.00951	-0.00277	PASS
					20	-1.35899	-0.00054	PASS
					30	-5.73635	-0.00226	PASS
					40	-1.75953	-0.00069	PASS
					50	-8.65459	-0.00341	PASS
			HCH	VN	-30	-7.15256	-0.00279	PASS
					-20	-3.41892	-0.00133	PASS
					-10	-1.55926	-0.00061	PASS
					0	-3.53336	-0.00138	PASS
					10	-8.72612	-0.00340	PASS
					20	-3.94821	-0.00154	PASS
					30	-3.47614	-0.00136	PASS
					40	-2.87533	-0.00112	PASS
					50	-3.84808	-0.00150	PASS
		15	LCH	VN	-30	-2.84672	-0.00114	PASS
					-20	-1.83106	-0.00073	PASS
					-10	-4.43459	-0.00177	PASS
					0	-3.94821	-0.00157	PASS
					10	-2.04563	-0.00082	PASS
					20	-8.26836	-0.00330	PASS
					30	-4.33445	-0.00173	PASS
					40	-2.07424	-0.00083	PASS
					50	-5.59330	-0.00223	PASS
			MCH	VN	-30	-5.89371	-0.00232	PASS
					-20	-5.04971	-0.00199	PASS
					-10	-3.79086	-0.00150	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					0	-2.76089	-0.00109	PASS
					10	-0.41485	-0.00016	PASS
					20	-3.56197	-0.00141	PASS
					30	-4.53472	-0.00179	PASS
					40	-2.10285	-0.00083	PASS
					50	-8.16822	-0.00322	PASS
			HCH	VN	-30	-8.75473	-0.00342	PASS
					-20	-5.30720	-0.00207	PASS
					-10	-8.38280	-0.00327	PASS
					0	-4.90665	-0.00191	PASS
					10	-3.36170	-0.00131	PASS
					20	-3.99113	-0.00156	PASS
					30	-5.06401	-0.00198	PASS
					40	-2.77519	-0.00108	PASS
					50	-5.50747	-0.00215	PASS
		20	LCH	VN	-30	-3.27587	-0.00131	PASS
					-20	-5.80788	-0.00231	PASS
					-10	-7.22408	-0.00288	PASS
					0	-3.87669	-0.00154	PASS
					10	-3.99113	-0.00159	PASS
					20	-5.47886	-0.00218	PASS
					30	-7.51018	-0.00299	PASS
					40	-7.22408	-0.00288	PASS
					50	-5.93662	-0.00237	PASS
			MCH	VN	-30	-5.22137	-0.00206	PASS
					-20	-4.97818	-0.00196	PASS
					-10	-4.63486	-0.00183	PASS
					0	-5.79357	-0.00229	PASS
					10	0.11444	0.00005	PASS
					20	-5.23567	-0.00207	PASS
					30	-9.48429	-0.00374	PASS
					40	-4.59194	-0.00181	PASS
					50	-6.58035	-0.00260	PASS
			HCH	VN	-30	-10.02789	-0.00392	PASS
					-20	-5.13554	-0.00201	PASS
					-10	-8.82626	-0.00345	PASS
					0	-7.35283	-0.00287	PASS
					10	-5.62191	-0.00220	PASS
					20	-9.19819	-0.00359	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					30	-8.72612	-0.00341	PASS
					40	-4.76360	-0.00186	PASS
					50	-5.04971	-0.00197	PASS
	LTE/TM2	5	LCH	VN	-30	-4.34875	-0.00174	PASS
					-20	-7.66754	-0.00306	PASS
					-10	-2.74658	-0.00110	PASS
					0	-6.16550	-0.00246	PASS
					10	-6.07967	-0.00243	PASS
					20	-4.37737	-0.00175	PASS
					30	-3.97682	-0.00159	PASS
					40	-6.58035	-0.00263	PASS
					50	-7.98225	-0.00319	PASS
			MCH	VN	-30	-5.36442	-0.00212	PASS
					-20	-0.85831	-0.00034	PASS
					-10	-2.93255	-0.00116	PASS
					0	-6.32286	-0.00249	PASS
					10	-4.01974	-0.00159	PASS
					20	-6.05106	-0.00239	PASS
					30	-1.34468	-0.00053	PASS
					40	-6.15120	-0.00243	PASS
					50	-1.50204	-0.00059	PASS
			HCH	VN	-30	-7.76768	-0.00303	PASS
					-20	-4.70638	-0.00183	PASS
					-10	-2.90394	-0.00113	PASS
					0	-1.04427	-0.00041	PASS
					10	-4.26292	-0.00166	PASS
					20	-5.22137	-0.00203	PASS
					30	-3.21865	-0.00125	PASS
					40	-4.54903	-0.00177	PASS
					50	-2.47478	-0.00096	PASS
		10	LCH	VN	-30	-6.50883	-0.00260	PASS
					-20	-8.88348	-0.00355	PASS
					-10	-2.40326	-0.00096	PASS
					0	-3.47614	-0.00139	PASS
					10	-3.17573	-0.00127	PASS
					20	-2.93255	-0.00117	PASS
					30	-5.32150	-0.00212	PASS
					40	-3.31879	-0.00132	PASS
					50	-6.96659	-0.00278	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
			MCH	VN	-30	-7.62463	-0.00301	PASS
					-20	-3.47614	-0.00137	PASS
					-10	-9.11236	-0.00359	PASS
					0	-3.36170	-0.00133	PASS
					10	-7.75337	-0.00306	PASS
					20	-4.96387	-0.00196	PASS
					30	-6.45161	-0.00255	PASS
					40	-3.01838	-0.00119	PASS
					50	-4.80652	-0.00190	PASS
			HCH	VN	-30	-8.09670	-0.00316	PASS
					-20	-4.16279	-0.00162	PASS
					-10	-4.89235	-0.00191	PASS
					0	-6.06537	-0.00236	PASS
					10	-6.53744	-0.00255	PASS
					20	-2.91824	-0.00114	PASS
					30	-4.52042	-0.00176	PASS
					40	-5.67913	-0.00221	PASS
					50	-7.10964	-0.00277	PASS
		15	LCH	VN	-30	-4.00543	-0.00160	PASS
					-20	-5.47886	-0.00218	PASS
					-10	-9.39846	-0.00375	PASS
					0	-2.58923	-0.00103	PASS
					10	-6.63757	-0.00265	PASS
					20	-8.06808	-0.00322	PASS
					30	-6.33717	-0.00253	PASS
					40	-4.52042	-0.00180	PASS
					50	-1.83106	-0.00073	PASS
			MCH	VN	-30	-4.10557	-0.00162	PASS
					-20	-3.71933	-0.00147	PASS
					-10	-1.15871	-0.00046	PASS
					0	0.32902	0.00013	PASS
					10	-3.06129	-0.00121	PASS
					20	-1.71661	-0.00068	PASS
					30	-2.93255	-0.00116	PASS
					40	-5.97954	-0.00236	PASS
					50	-9.88483	-0.00390	PASS
			HCH	VN	-30	-1.31607	-0.00051	PASS
					-20	-6.12259	-0.00239	PASS
					-10	-1.14441	-0.00045	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					0	-3.70503	-0.00145	PASS
					10	-4.06265	-0.00159	PASS
					20	-2.67506	-0.00104	PASS
					30	-4.33445	-0.00169	PASS
					40	-2.17438	-0.00085	PASS
					50	-6.36578	-0.00248	PASS
		20	LCH	VN	-30	-2.66075	-0.00106	PASS
					-20	-6.02245	-0.00240	PASS
					-10	-4.24862	-0.00169	PASS
					0	-3.97682	-0.00158	PASS
					10	-0.84400	-0.00034	PASS
					20	-3.23296	-0.00129	PASS
					30	-5.12123	-0.00204	PASS
					40	-6.99520	-0.00279	PASS
					50	-4.52042	-0.00180	PASS
			MCH	VN	-30	-4.30584	-0.00170	PASS
					-20	-7.13825	-0.00282	PASS
					-10	-6.70910	-0.00265	PASS
					0	-6.12259	-0.00242	PASS
					10	-1.25885	-0.00050	PASS
					20	-8.49724	-0.00335	PASS
					30	-4.96387	-0.00196	PASS
					40	-5.70774	-0.00225	PASS
					50	-6.03676	-0.00238	PASS
			HCH	VN	-30	-9.16958	-0.00358	PASS
					-20	-6.15120	-0.00240	PASS
					-10	-7.85351	-0.00307	PASS
					0	-9.75609	-0.00381	PASS
					10	-7.30991	-0.00286	PASS
					20	-7.46727	-0.00292	PASS
					30	-6.56605	-0.00256	PASS
					40	-6.25134	-0.00244	PASS
					50	-9.58443	-0.00374	PASS

END