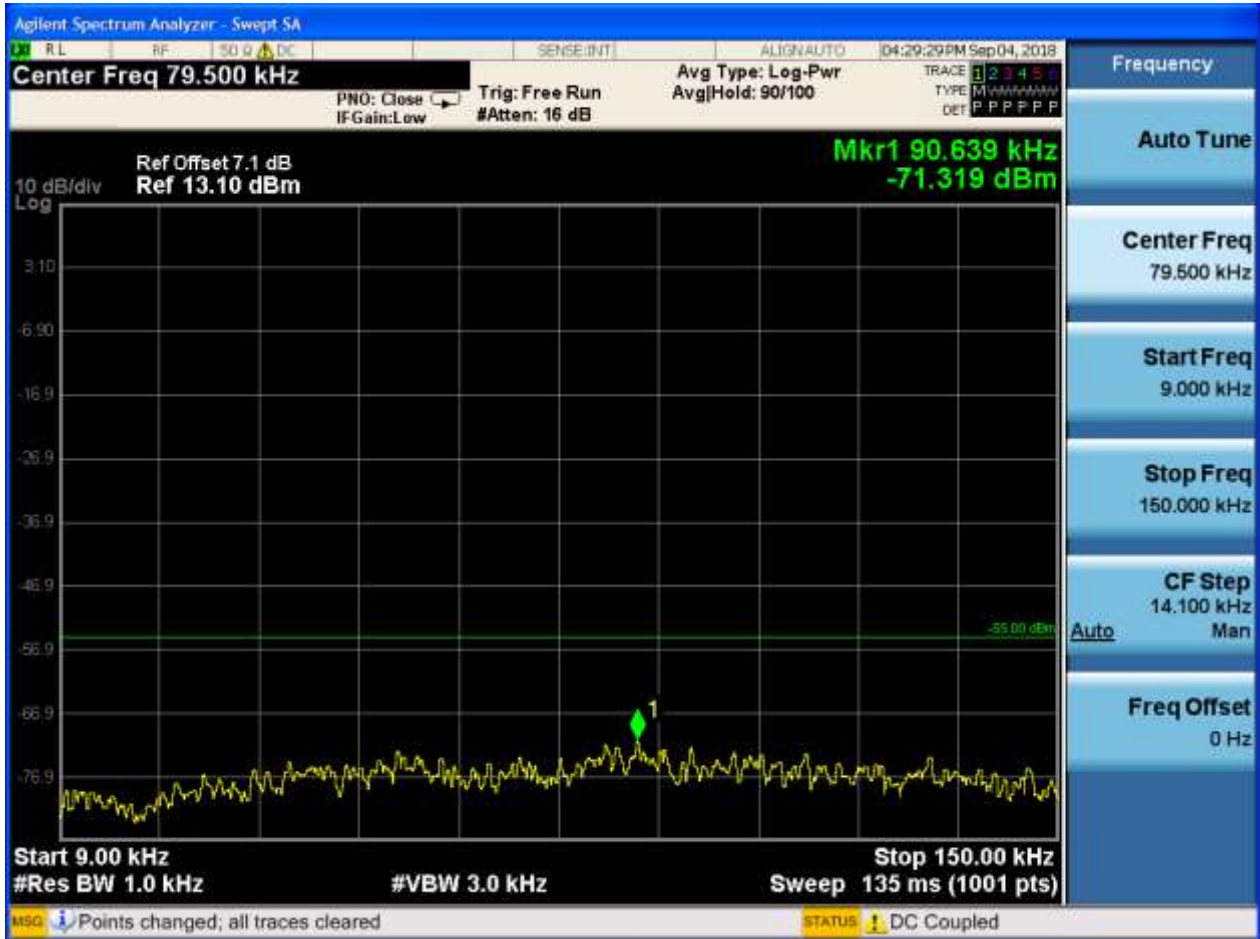






6.1.1.1.3.3 Test Channel = HCH

6.1.1.1.3.3.1 Test RB = RB1#0



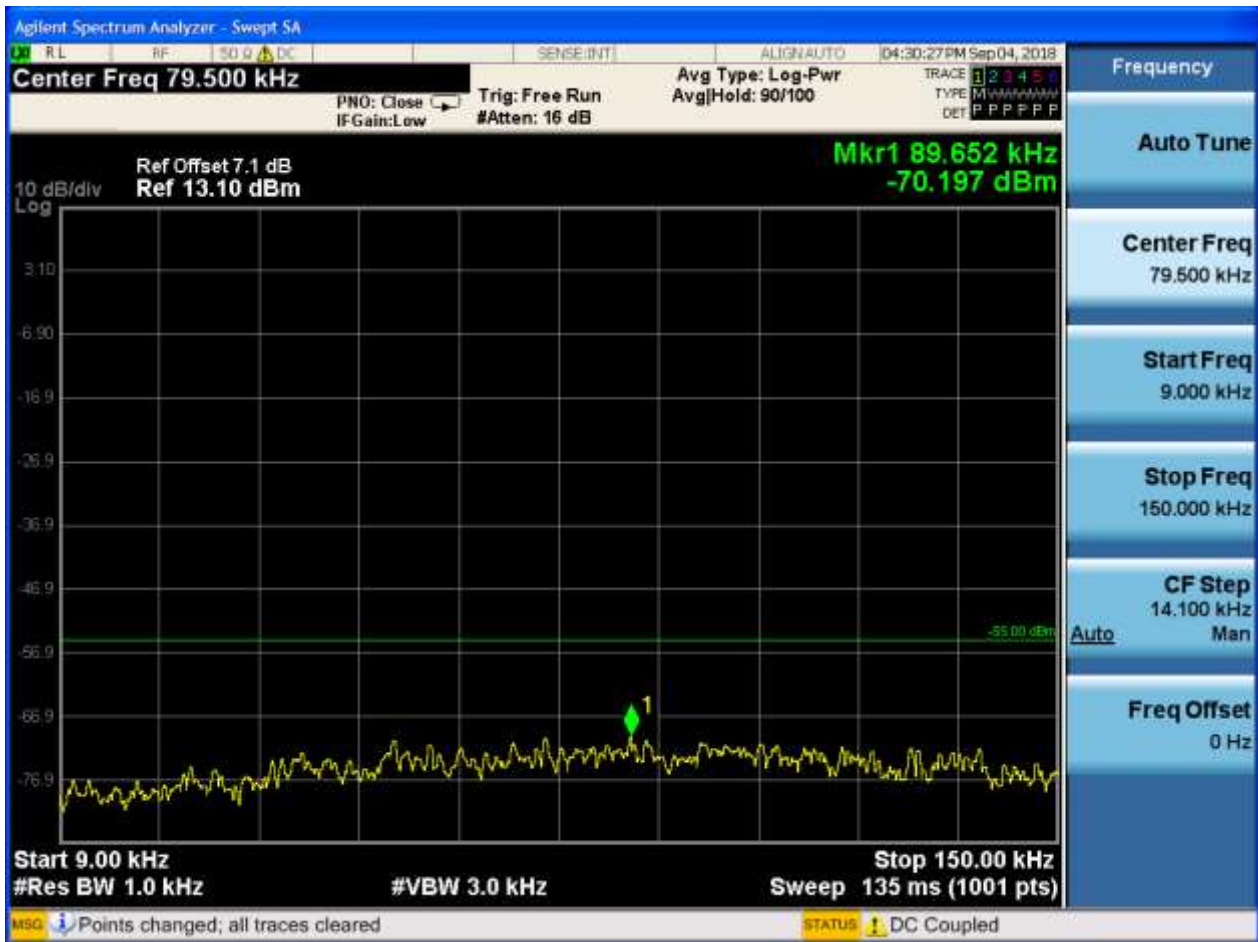




6.1.1.1.4 Test Bandwidth = 20

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



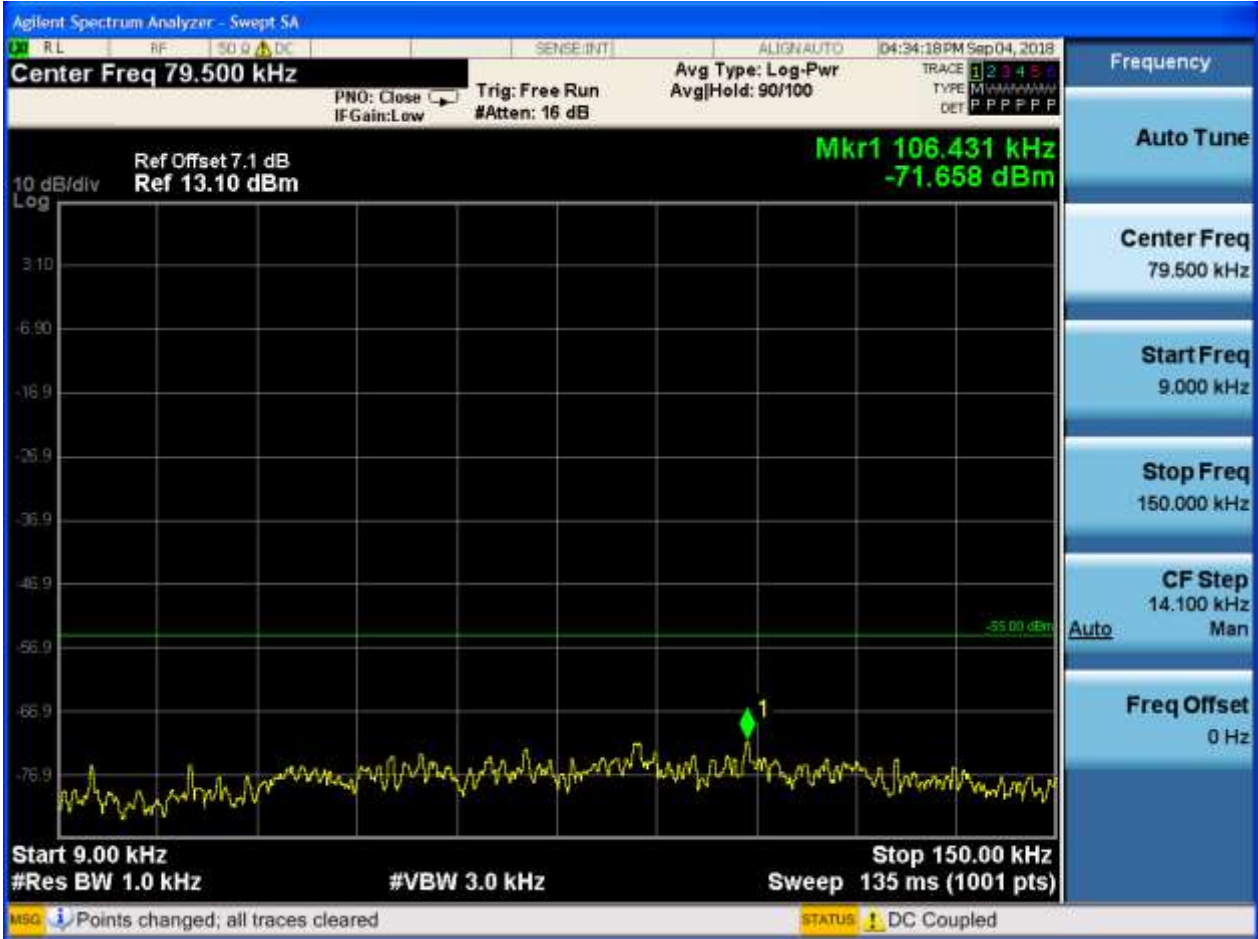






6.1.1.1.4.3 Test Channel = HCH

6.1.1.1.4.3.1 Test RB = RB1#0







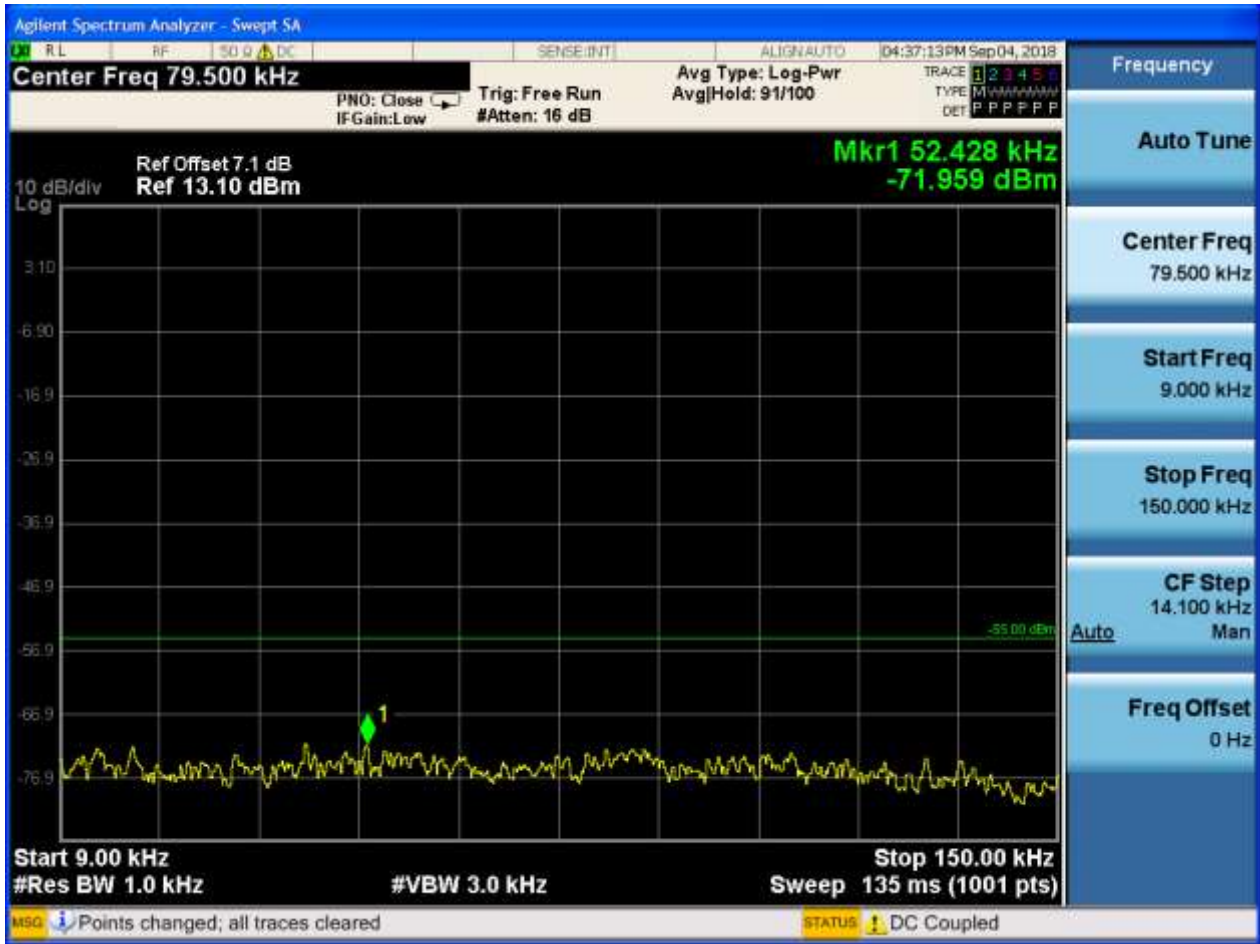


6.1.1.2 Test Mode = LTE/TM2

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



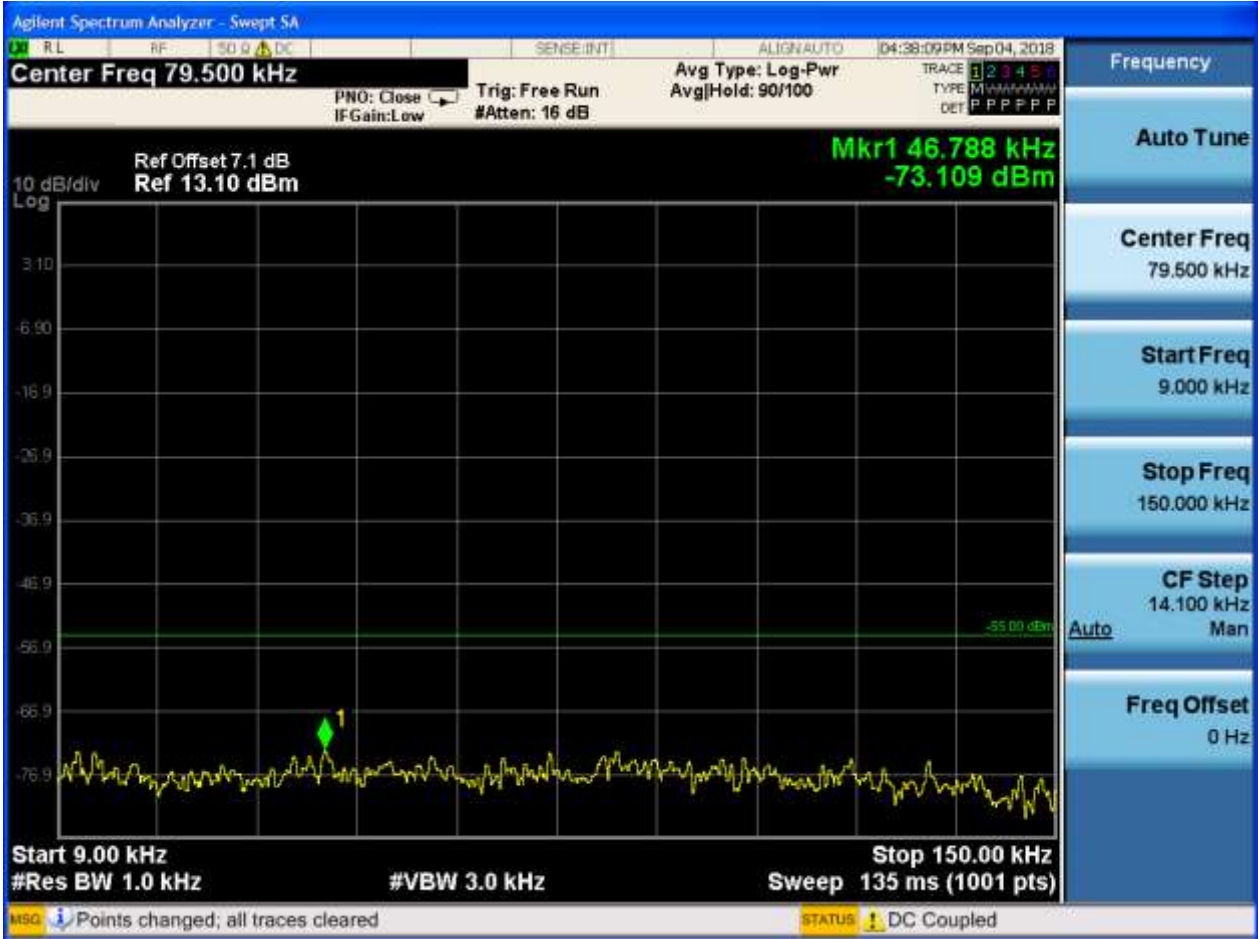






6.1.1.2.1.2 Test Channel = MCH

6.1.1.2.1.2.1 Test RB = RB1#0

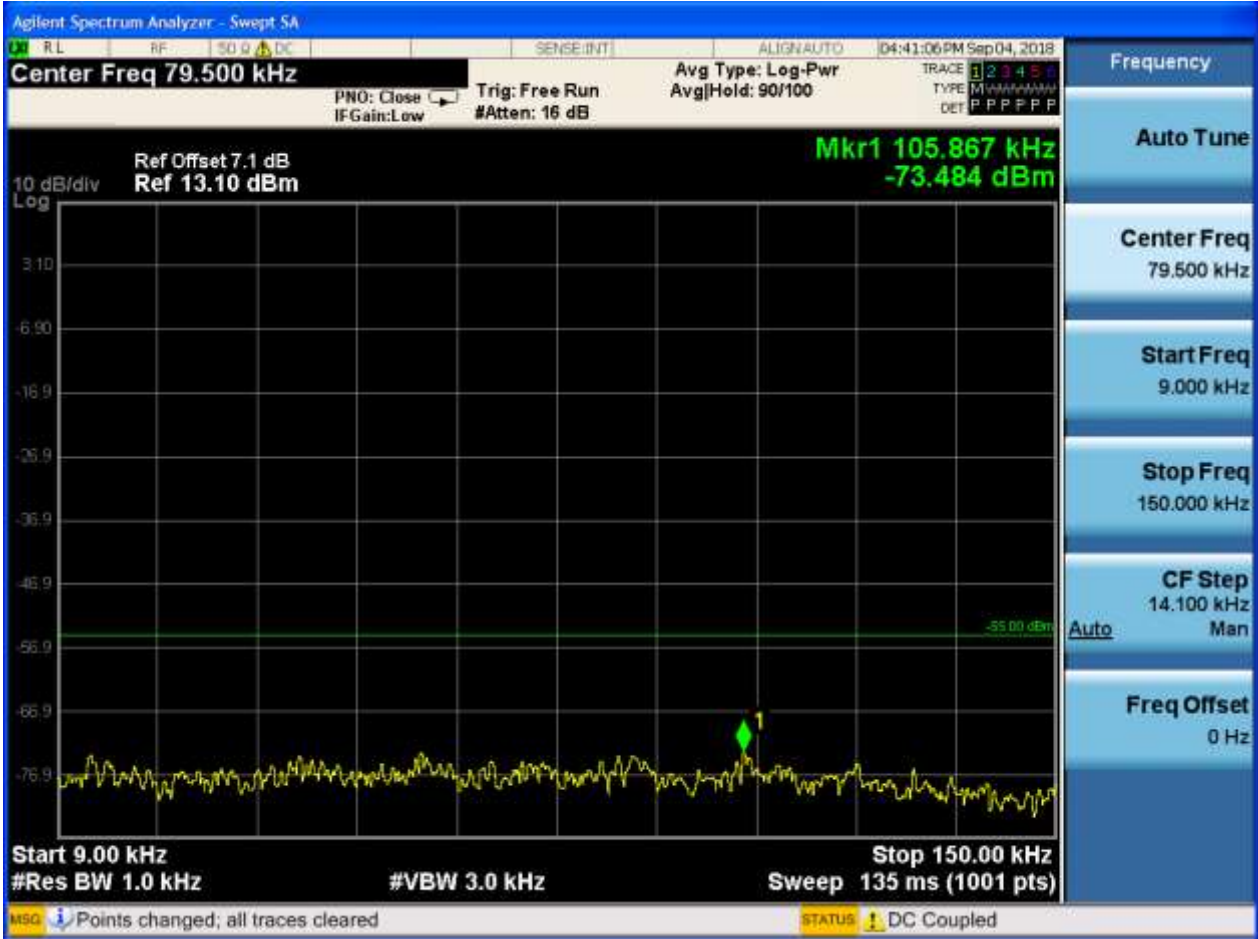






6.1.1.2.1.3 Test Channel = HCH

6.1.1.2.1.3.1 Test RB = RB1#0





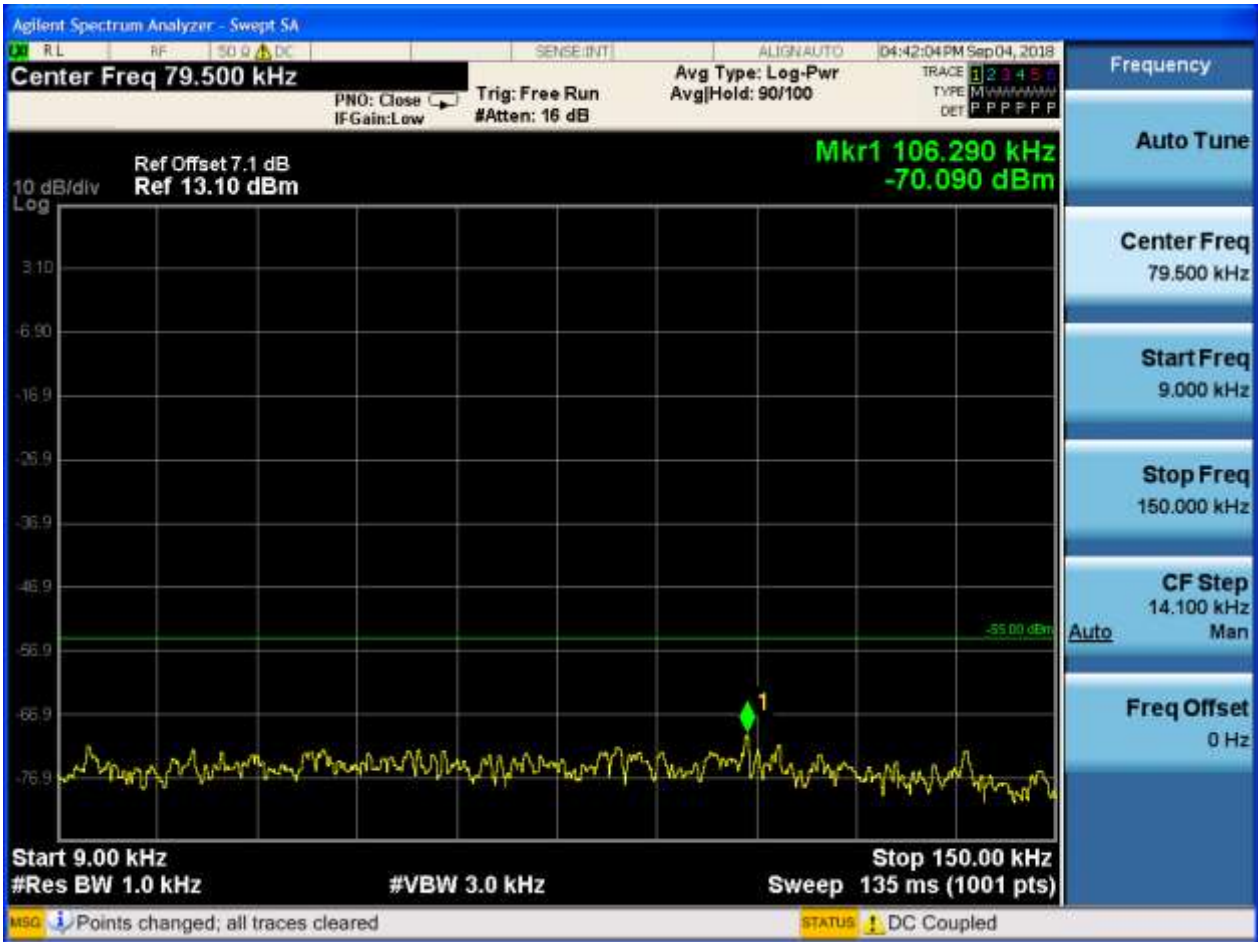




6.1.1.2.2 Test Bandwidth = 10

6.1.1.2.2.1 Test Channel = LCH

6.1.1.2.2.1.1 Test RB = RB1#0



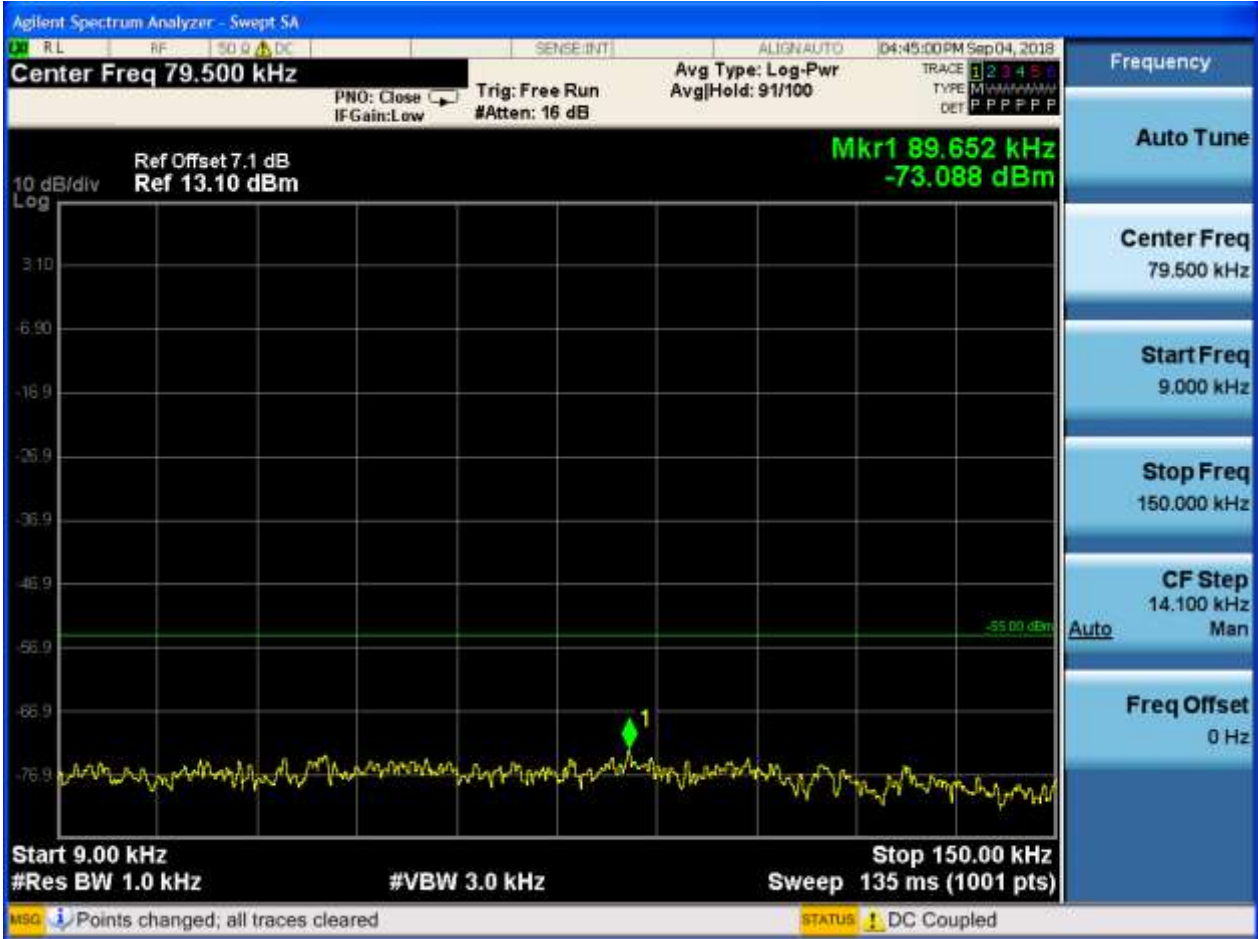






6.1.1.2.2.2 Test Channel = MCH

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





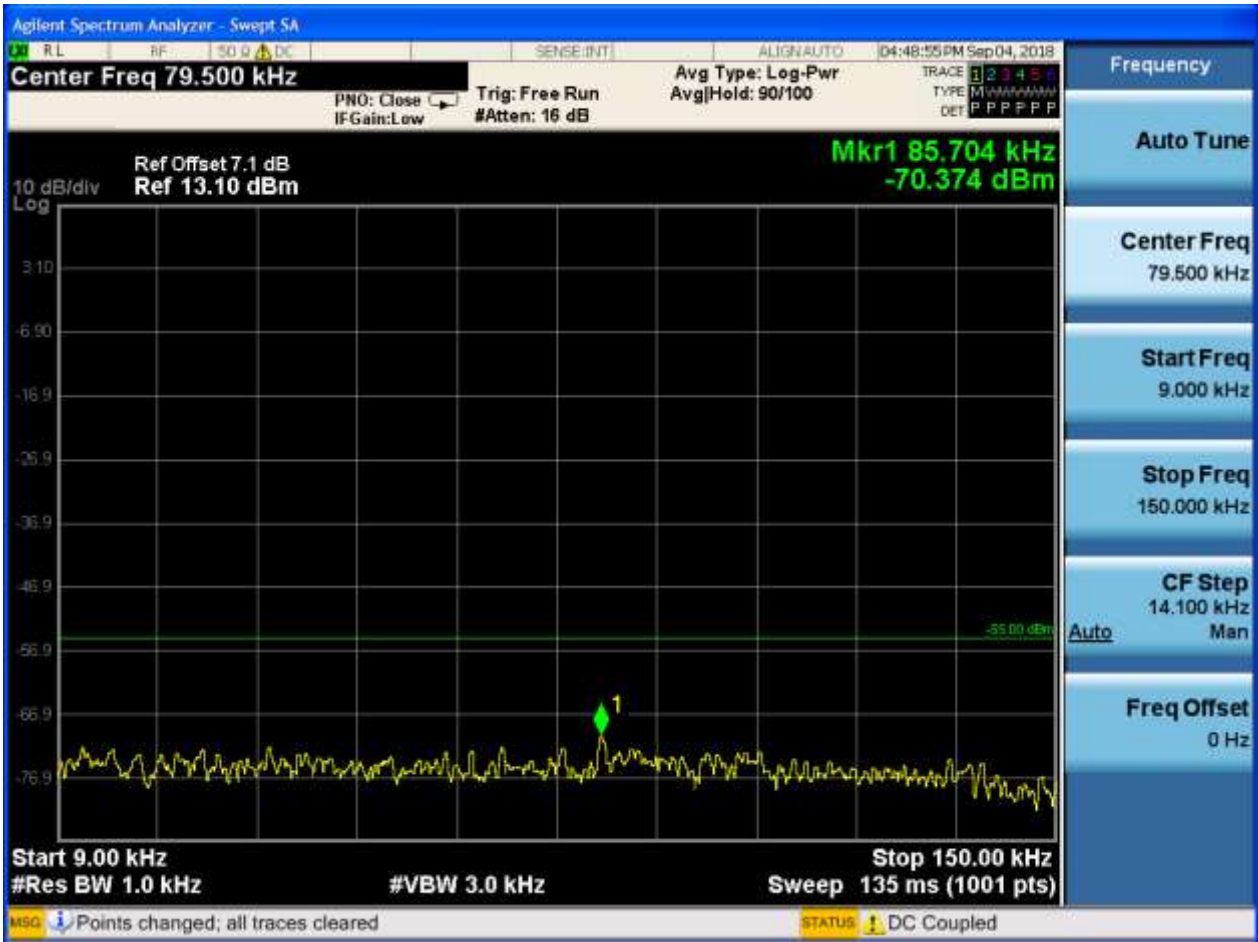




6.1.1.2.3 Test Bandwidth = 15

6.1.1.2.3.1 Test Channel = LCH

6.1.1.2.3.1.1 Test RB = RB1#0

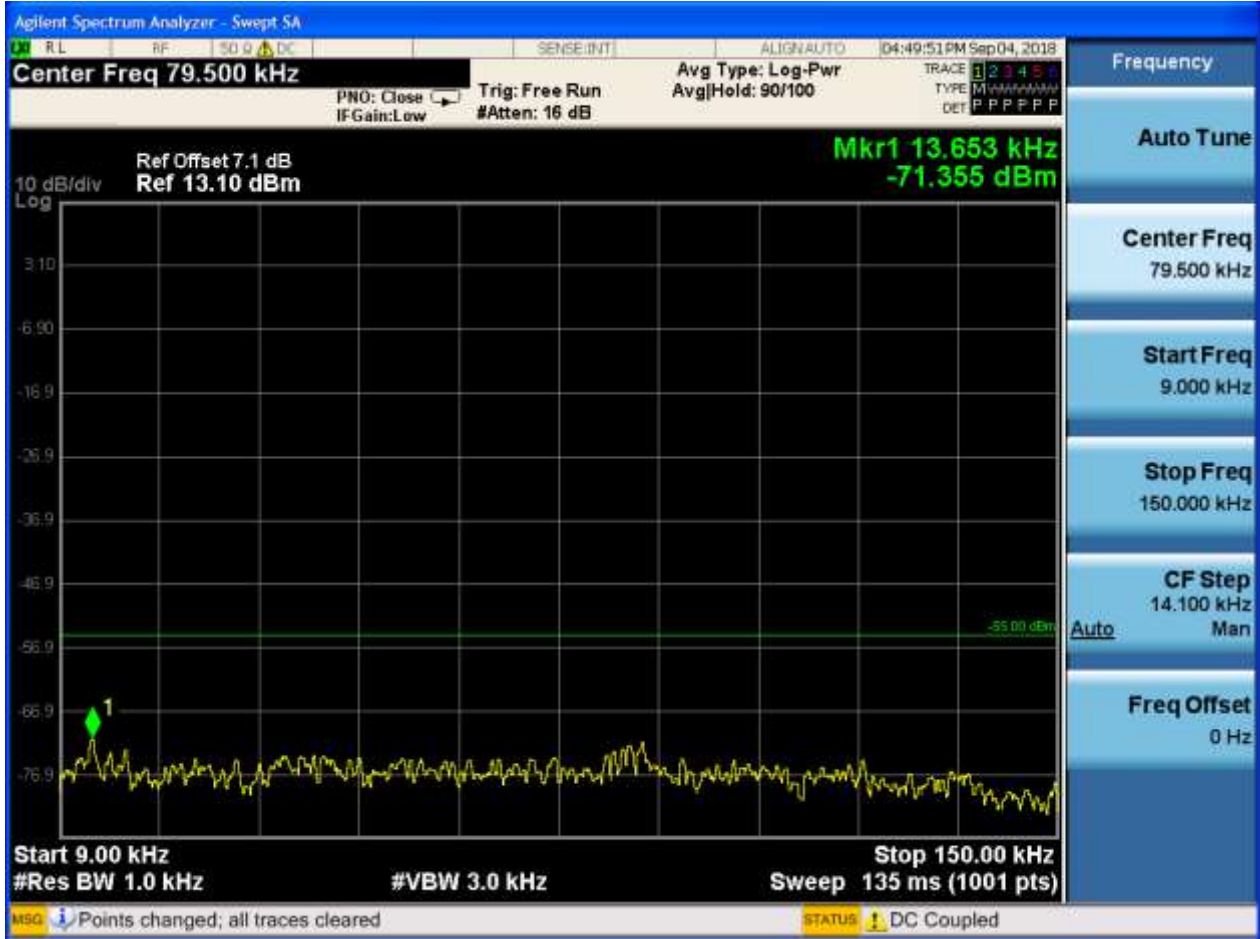






6.1.1.2.3.2 Test Channel = MCH

6.1.1.2.3.2.1 Test RB = RB1#0



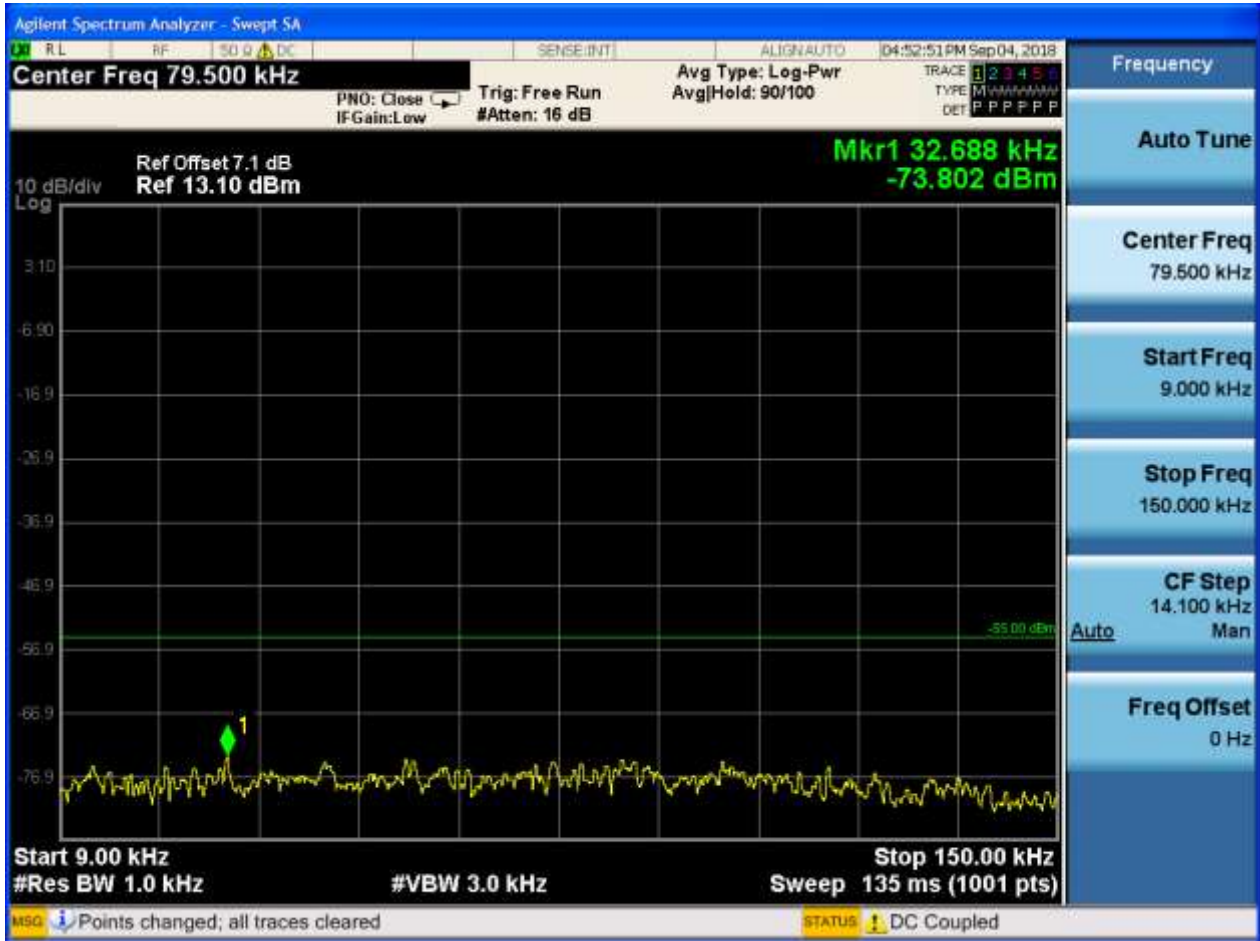






6.1.1.2.3.3 Test Channel = HCH

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



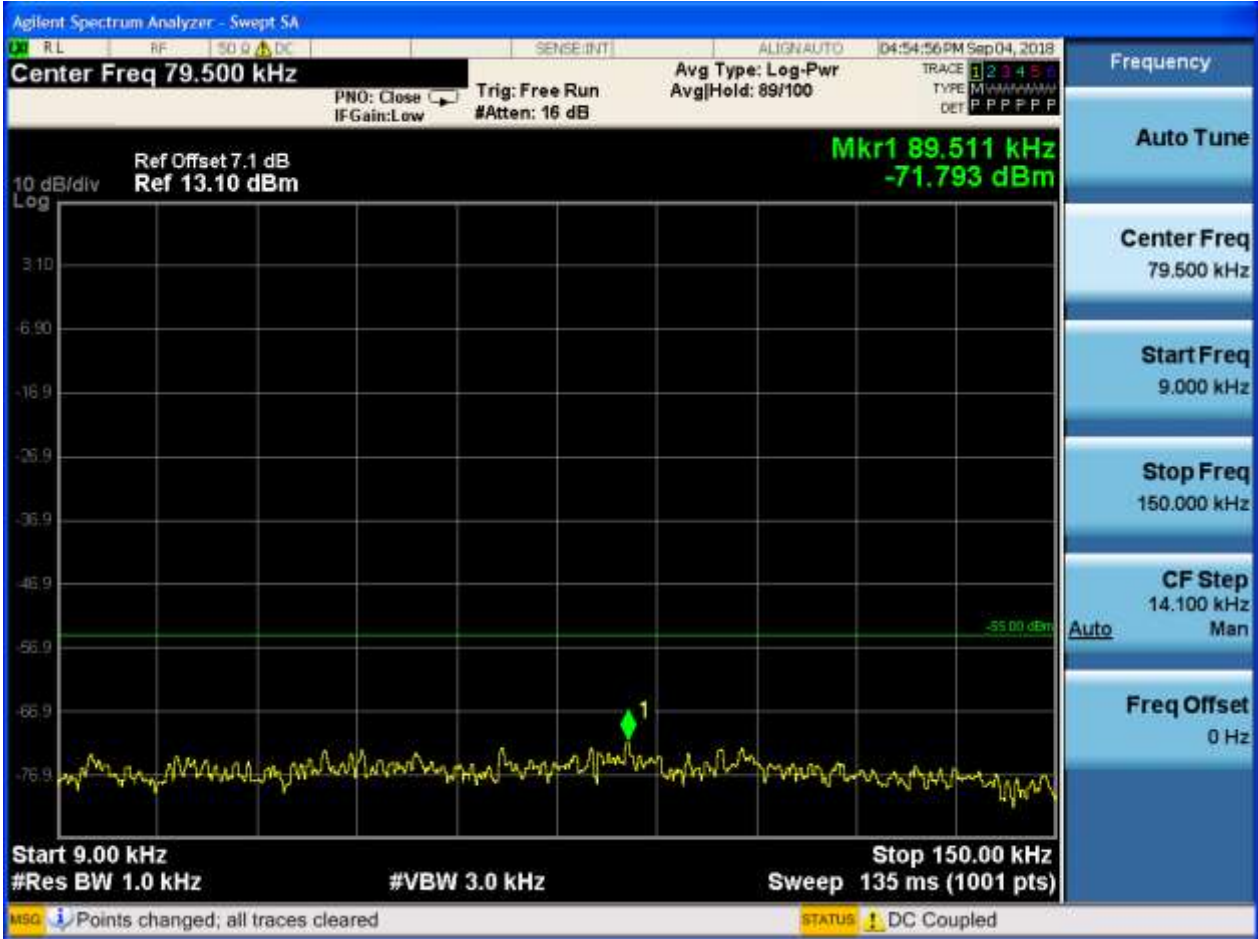






6.1.1.2.4.2 Test Channel = MCH

6.1.1.2.4.2.1 Test RB = RB1#0



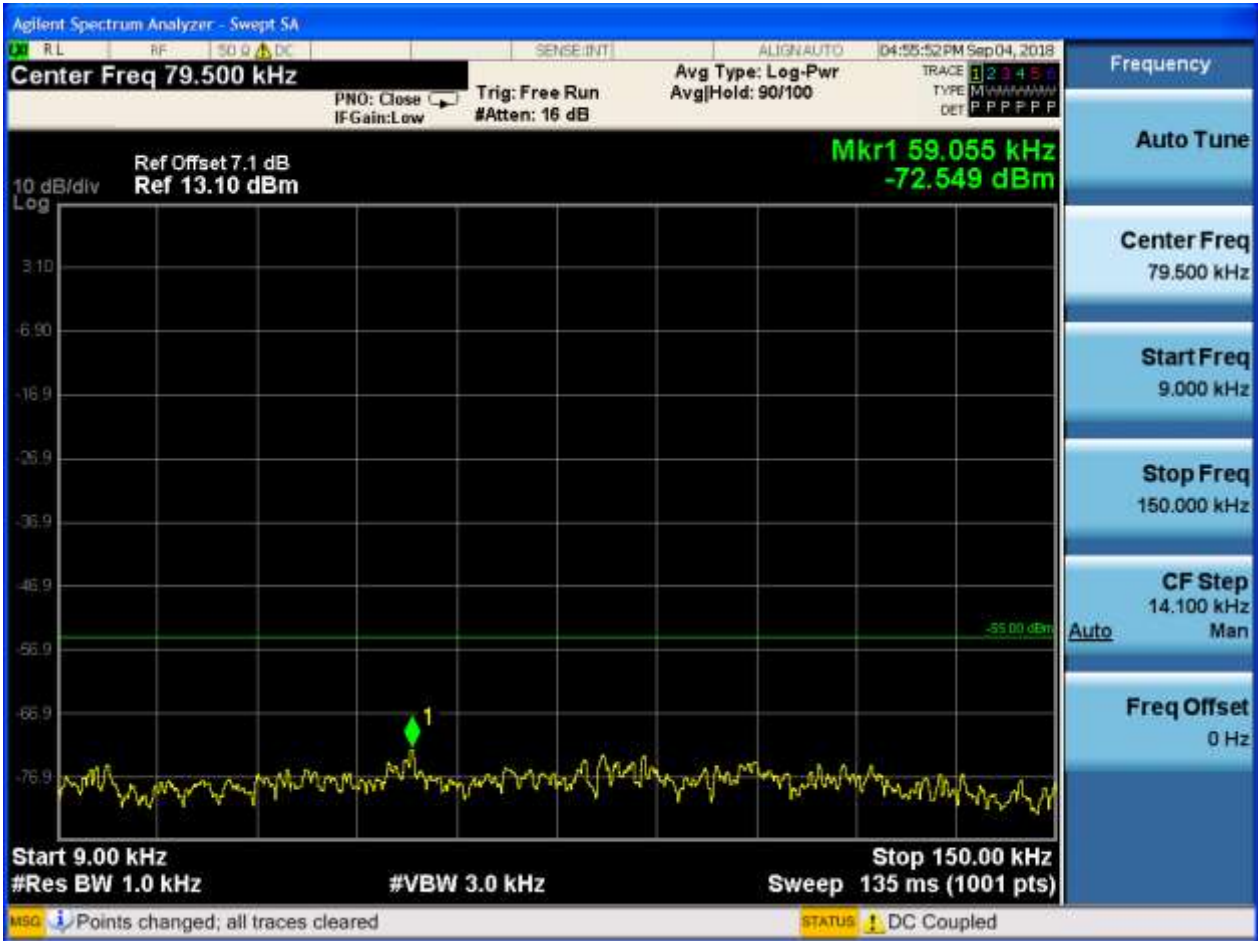






6.1.1.2.4.3 Test Channel = HCH

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

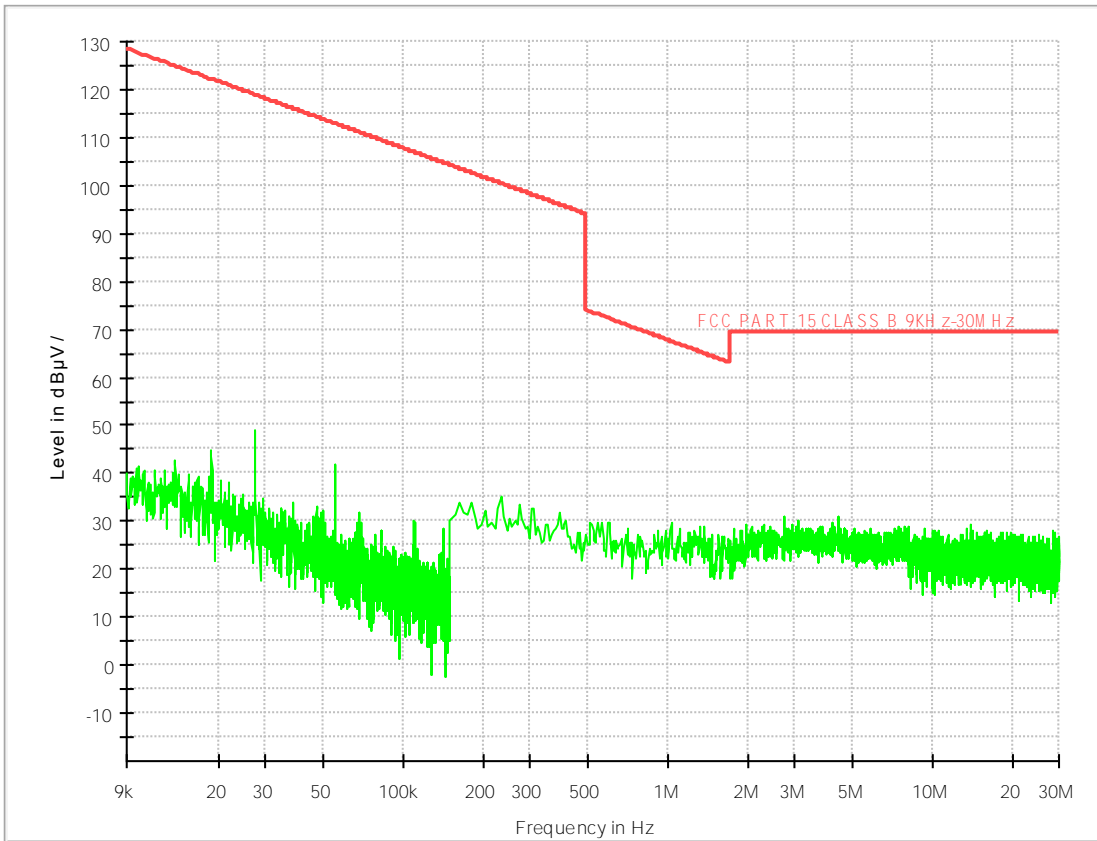
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

Part I - Test Plots

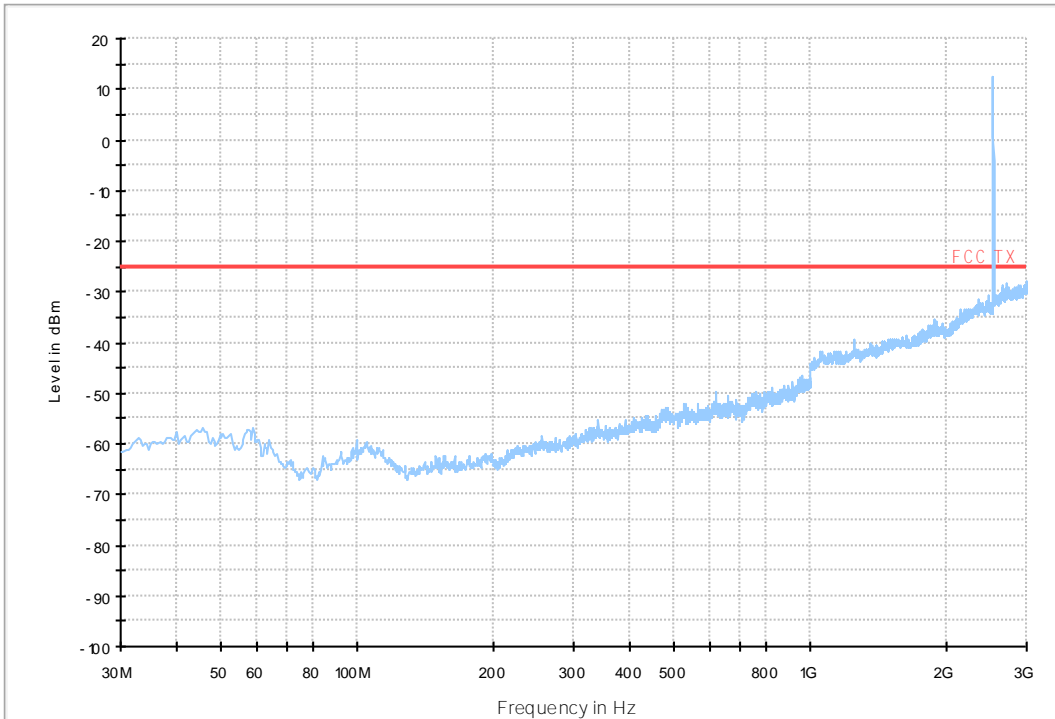
7.1 For LTE

7.1.1 Test Band = BAND7_ANT1

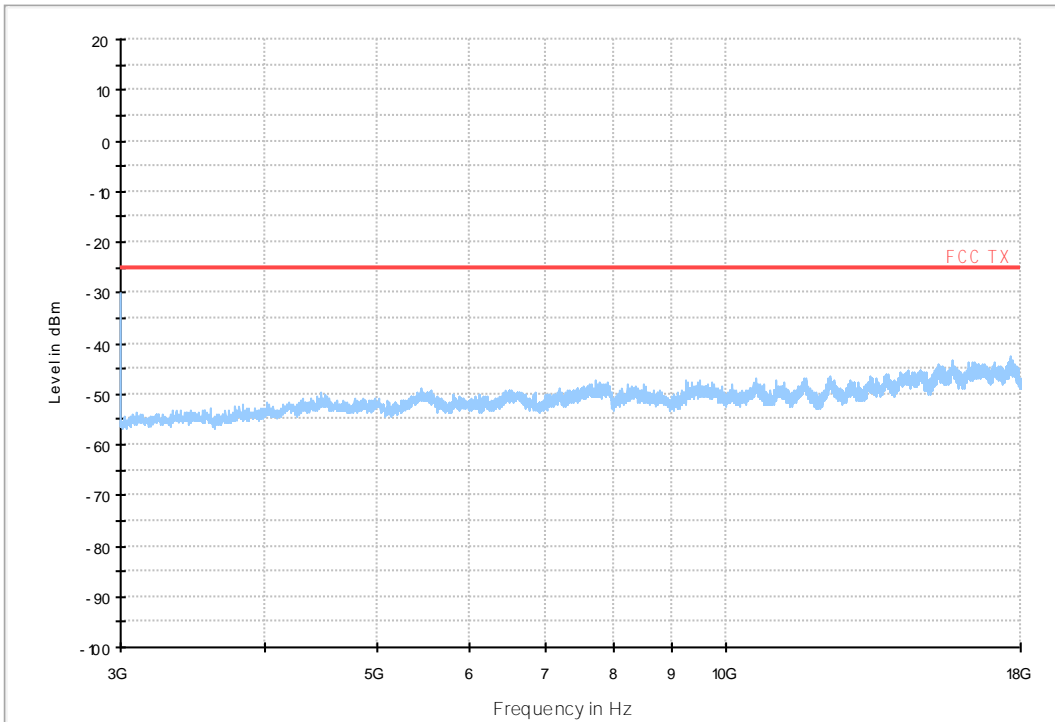
7.1.1.1 Test Bandwidth = 5



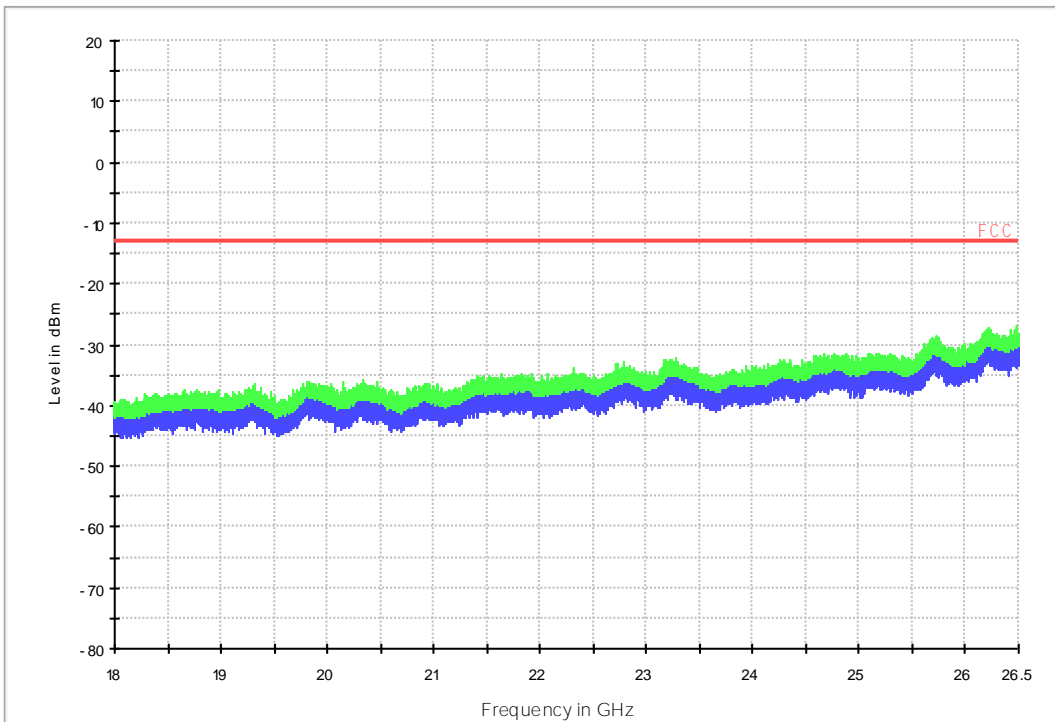
LTE Band 7 RSE-TX-DIRECTOR ABOVE 1.5G_L -25dBm limit



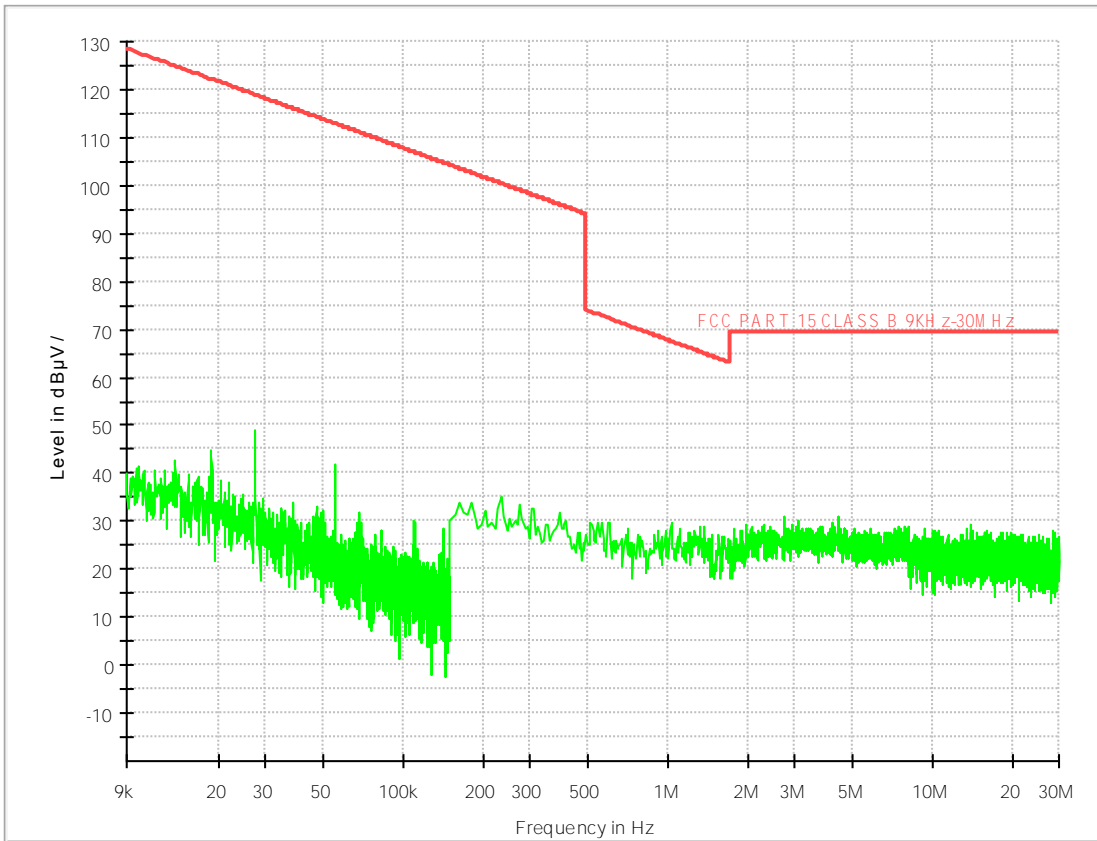
LTE FDD Band 7 RSE-TX-DIRECTOR ABOVE 1.5G_H -25dBm limit



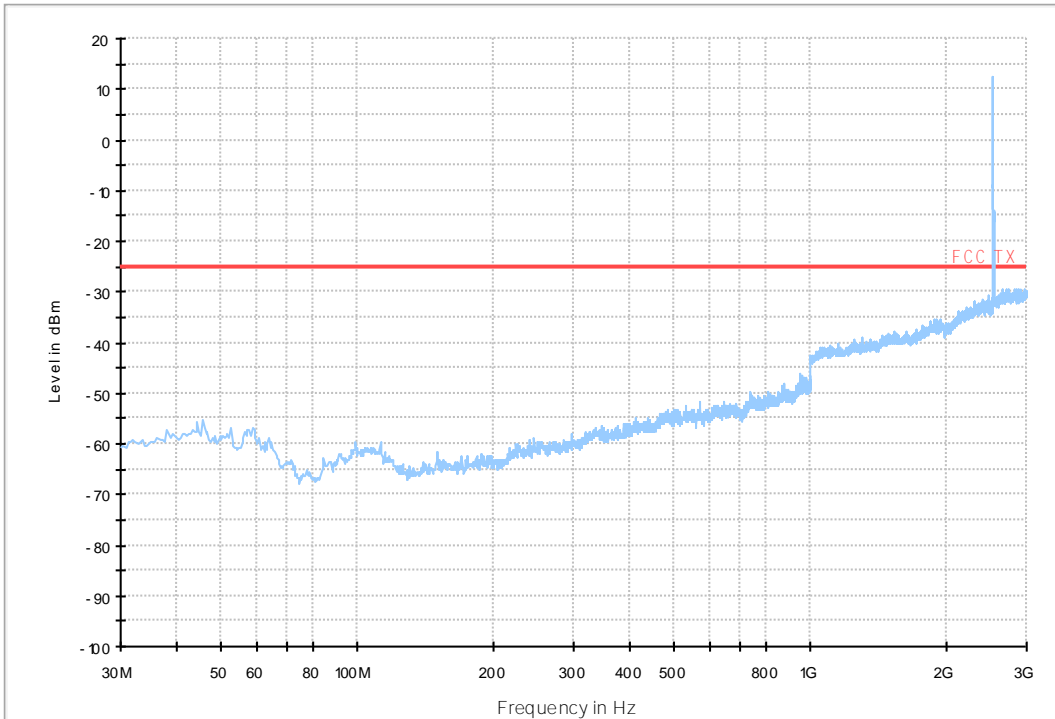
18G~26.5G RSE-TX-DIRECTOR ABOVE 1.5G PK



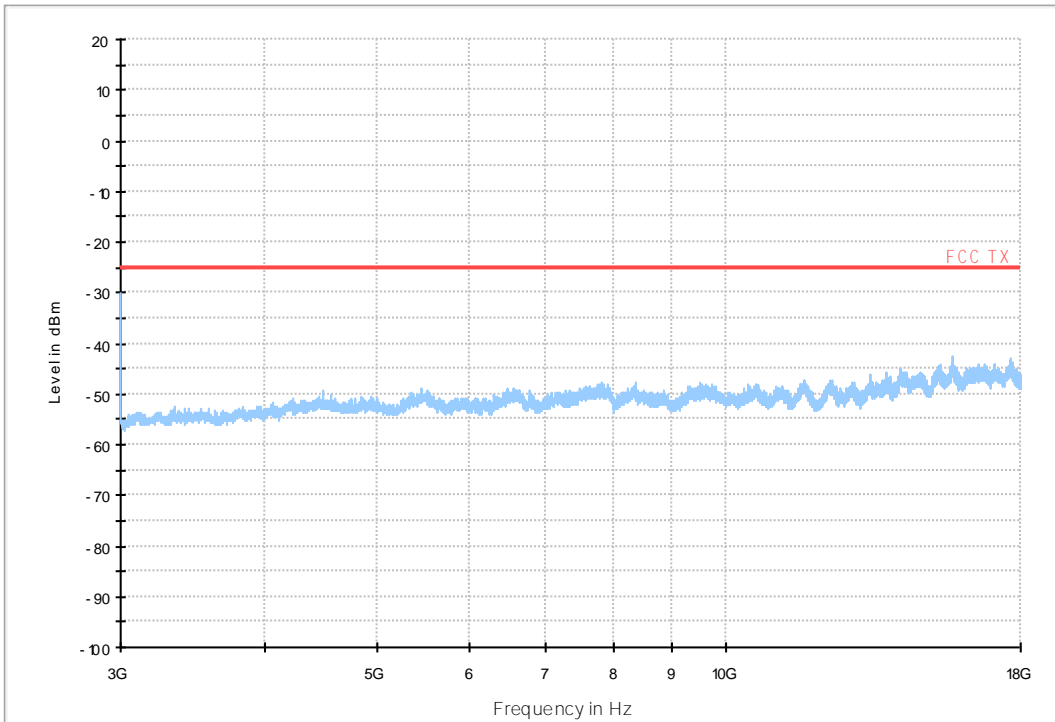
7.1.1.2 Test Bandwidth = 20



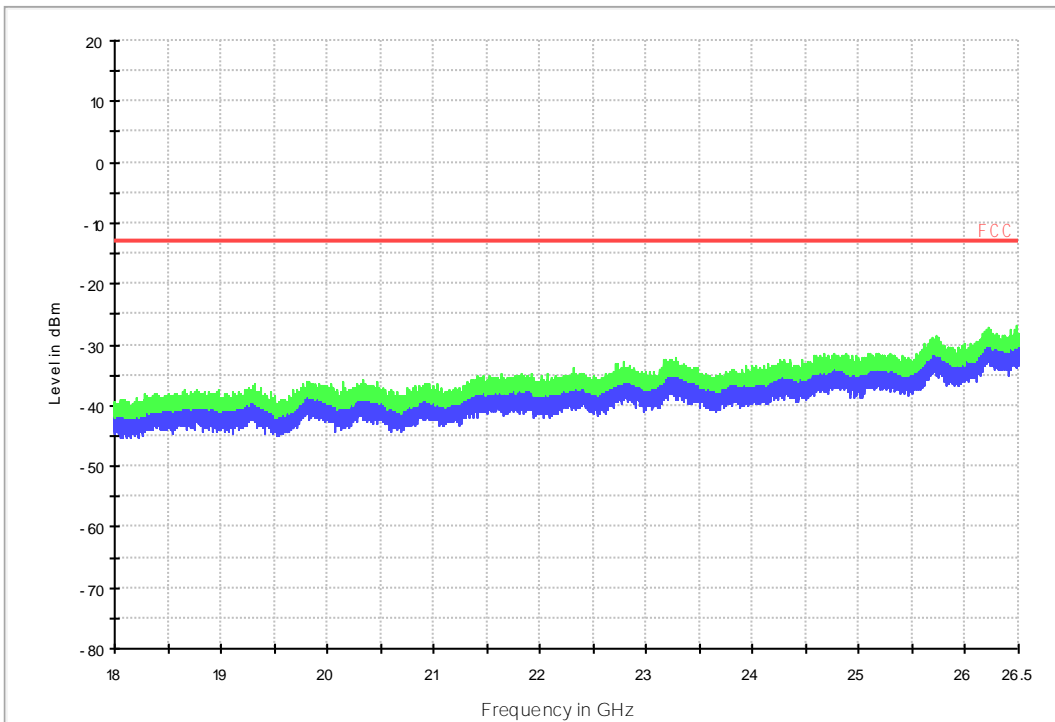
LTE Band 7 RSE-TX-DIRECTOR ABOVE 1.5G_L -25dBm limit



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

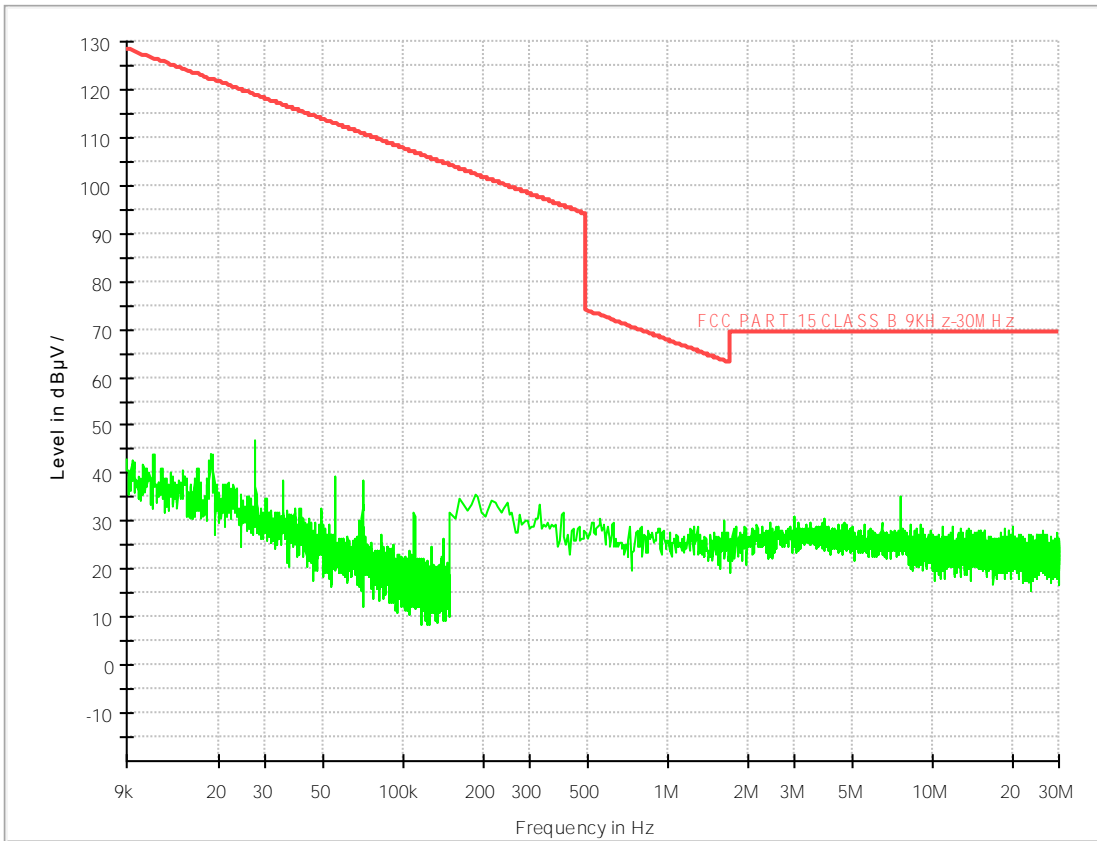


18G~26.5G RSE-TX-DIRECTOR ABOVE 1.5G PK

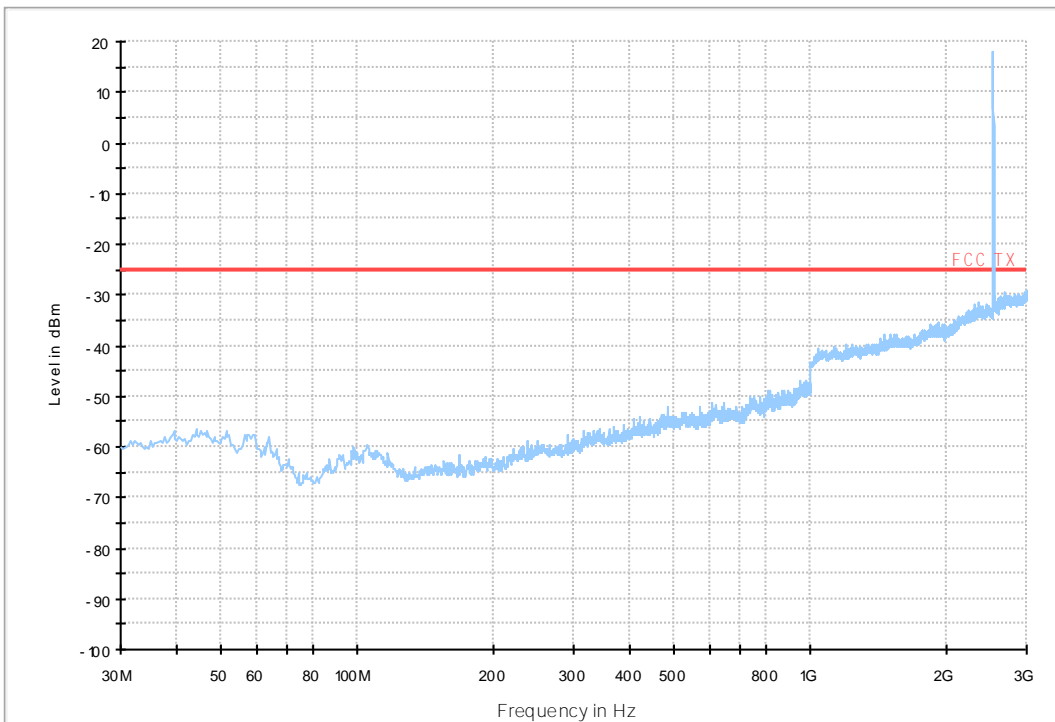


7.1.2 Test Band = BAND7_ANT2

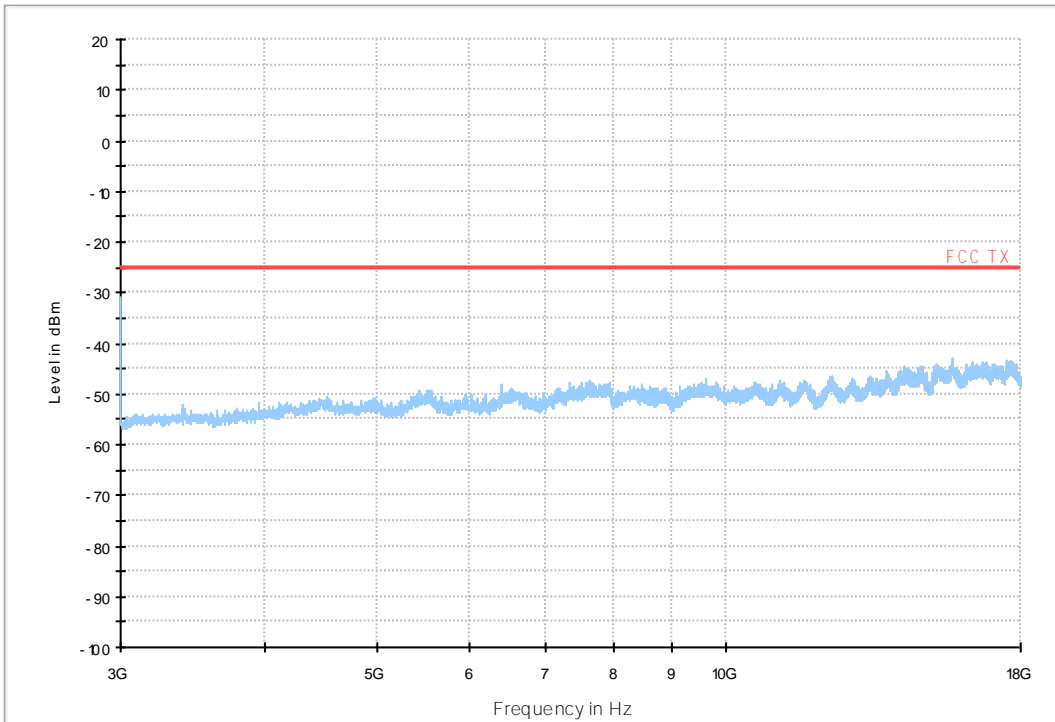
7.1.2.1 Test Bandwidth = 5



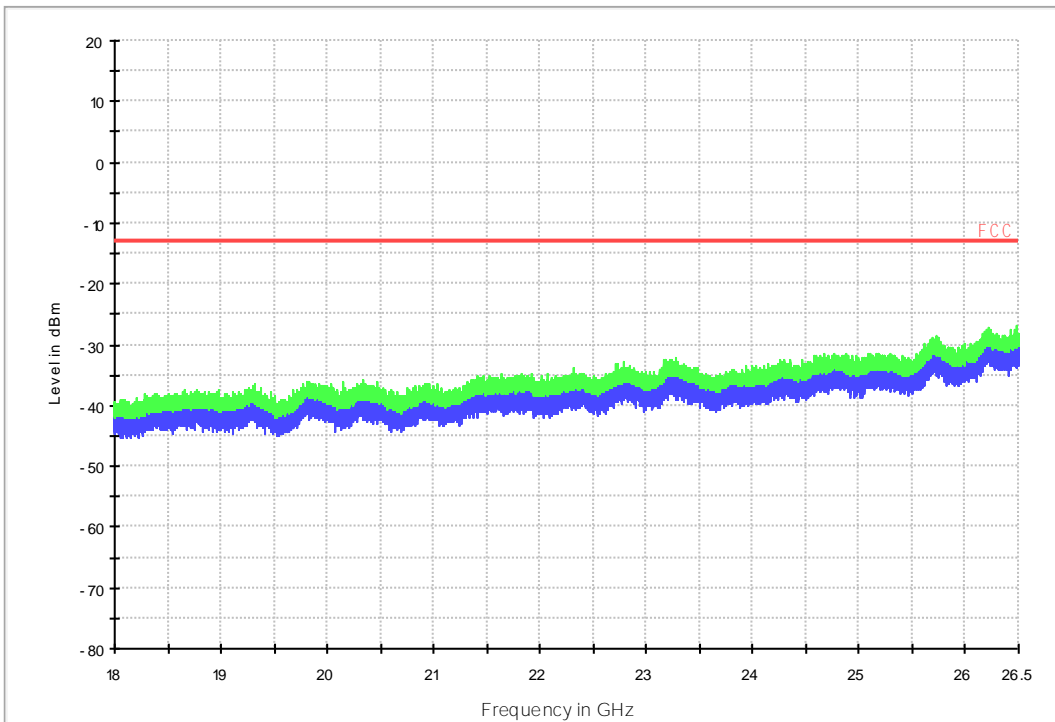
LTE Band 7 RSE-TX-DIRECTOR ABOVE 1.5G_L -25dBm limit



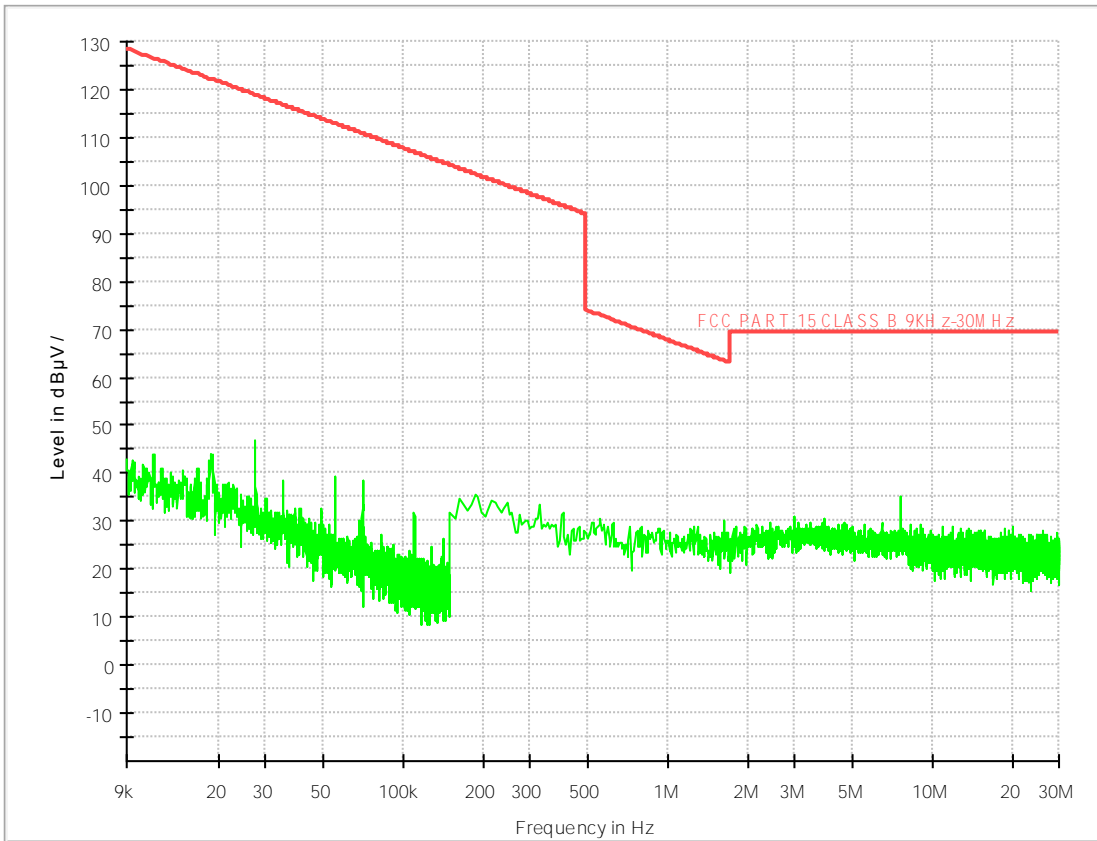
LTE FDD Band 7 RSE-TX-DIRECTOR ABOVE 1.5G_H -25dBm limit



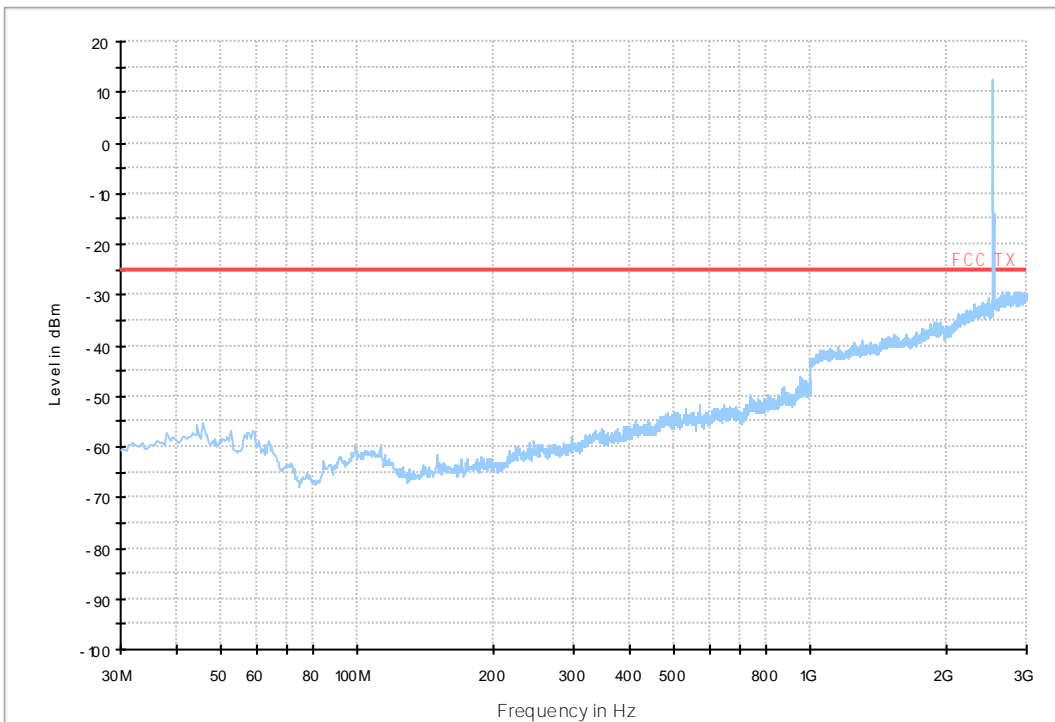
18G~26.5G RSE-TX-DIRECTOR ABOVE 1.5G PK



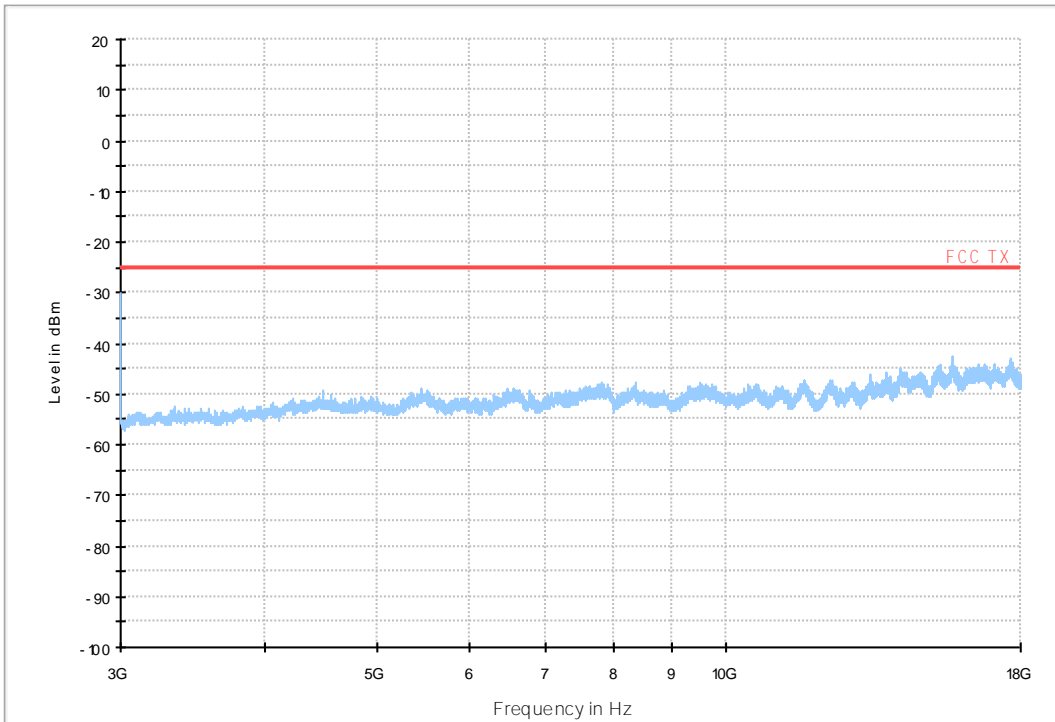
7.1.2.2 Test Bandwidth = 20



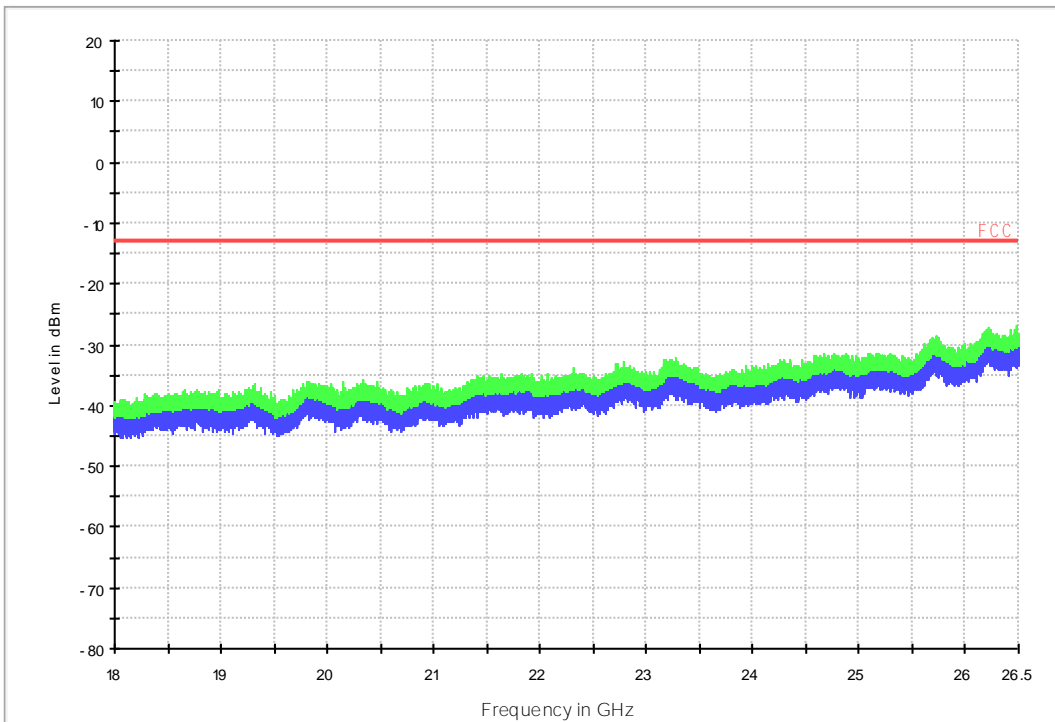
LTE Band 7 RSE-TX-DIRECTOR ABOVE 1.5G_L -25dBm limit



LTE FDD Band 7 RSE-TX-DIRECTOR ABOVE 1.5G_H -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	-1.39	-0.00056	PASS
					VN	-4.88	-0.00195	PASS
					VH	-2.65	-0.00106	PASS
			MCH	TN	VL	-37.99	-0.01499	PASS
					VN	-36.79	-0.01451	PASS
					VH	-26.38	-0.01041	PASS
			HCH	TN	VL	-4.09	-0.00159	PASS
					VN	-0.83	-0.00032	PASS
					VH	-2.47	-0.00096	PASS
		10	LCH	TN	VL	-3.91	-0.00156	PASS
					VN	-1.53	-0.00061	PASS
					VH	-4.01	-0.0016	PASS
			MCH	TN	VL	-3.89	-0.00153	PASS
					VN	-4.85	-0.00191	PASS
					VH	-11.84	-0.00467	PASS
			HCH	TN	VL	-17.07	-0.00665	PASS
					VN	-5.61	-0.00219	PASS
					VH	-15.35	-0.00598	PASS
		15	LCH	TN	VL	-3.81	-0.00152	PASS
					VN	-4.35	-0.00173	PASS
					VH	-2.76	-0.0011	PASS
			MCH	TN	VL	-15.38	-0.00607	PASS
					VN	-2.29	-0.0009	PASS
					VH	-12.79	-0.00505	PASS
HCH	TN		VL	-4.11	-0.0016	PASS		
			VN	-4.63	-0.00181	PASS		
			VH	-4.25	-0.00166	PASS		
20	LCH	TN	VL	-3.82	-0.00152	PASS		
			VN	-3.38	-0.00135	PASS		



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
	LTE/TM2	5	MCH	TN	VH	-3.60	-0.00143	PASS
					VL	-3.98	-0.00157	PASS
					VN	-1.85	-0.00073	PASS
			HCH	TN	VH	-6.58	-0.0026	PASS
					VL	0.82	0.00032	PASS
					VN	-0.16	-0.00006	PASS
			LCH	TN	VH	0.03	0.00001	PASS
					VL	-5.09	-0.00203	PASS
					VN	-1.75	-0.0007	PASS
			MCH	TN	VH	-7.48	-0.00299	PASS
					VL	-31.53	-0.01244	PASS
					VN	-37.62	-0.01484	PASS
		HCH	TN	VH	0.07	0.00003	PASS	
				VL	-1.27	-0.00049	PASS	
				VN	-12.22	-0.00476	PASS	
		LCH	TN	VH	-16.68	-0.0065	PASS	
				VL	-3.28	-0.00131	PASS	
				VN	-3.10	-0.00124	PASS	
		MCH	TN	VH	-0.63	-0.00025	PASS	
				VL	-6.71	-0.00265	PASS	
				VN	-21.73	-0.00857	PASS	
		HCH	TN	VH	-12.60	-0.00497	PASS	
				VL	-3.03	-0.00118	PASS	
				VN	-1.36	-0.00053	PASS	
		LCH	TN	VH	-4.68	-0.00182	PASS	
				VL	-3.18	-0.00127	PASS	
				VN	-2.98	-0.00119	PASS	
		MCH	TN	VH	-3.78	-0.00151	PASS	
				VL	-2.43	-0.00096	PASS	
				VN	-3.46	-0.00136	PASS	
		HCH	TN	VH	-11.20	-0.00442	PASS	
				VL	-11.22	-0.00438	PASS	
				VN	-14.35	-0.0056	PASS	
		LCH	TN	VH	-10.86	-0.00424	PASS	
				VL	-3.13	-0.00125	PASS	
				VN	-3.59	-0.00143	PASS	
		MCH	TN	VH	-2.29	-0.00091	PASS	
				VL	-5.28	-0.00208	PASS	
				VN				



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					VN	-3.96	-0.00156	PASS
					VH	-1.76	-0.00069	PASS
			HCH	TN	VL	-0.24	-0.00009	PASS
					VN	-3.52	-0.00137	PASS
					VH	0.84	0.00033	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	-5.35	-0.00214	PASS
					-20	-1.93	-0.00077	PASS
					-10	-6.02	-0.00241	PASS
					0	-1.83	-0.00073	PASS
					10	-4.98	-0.00199	PASS
					20	-5.04	-0.00201	PASS
					30	-1.60	-0.00064	PASS
					40	-4.69	-0.00187	PASS
					50	-5.08	-0.00203	PASS
			MCH	VN	-30	-30.50	-0.01203	PASS
					-20	-17.74	-0.007	PASS
					-10	-36.84	-0.01453	PASS
					0	-32.40	-0.01278	PASS
					10	-1.89	-0.00075	PASS
					20	-3.53	-0.00139	PASS
					30	-36.65	-0.01446	PASS
					40	-1.96	-0.00077	PASS
					50	-3.38	-0.00133	PASS
			HCH	VN	-30	-4.05	-0.00158	PASS
					-20	-2.93	-0.00114	PASS
					-10	-28.97	-0.01128	PASS
					0	-4.43	-0.00173	PASS
					10	-38.57	-0.01502	PASS
					20	-35.61	-0.01387	PASS
30	-37.91	-0.01477			PASS			
40	-2.16	-0.00084			PASS			
50	-4.08	-0.00159			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	-4.45	-0.00178	PASS
					-20	-0.74	-0.0003	PASS
					-10	-3.50	-0.0014	PASS
					0	0.20	0.00008	PASS
					10	-0.57	-0.00023	PASS
					20	-0.73	-0.00029	PASS
					30	-5.45	-0.00218	PASS
					40	-6.98	-0.00279	PASS
					50	-10.51	-0.0042	PASS
			MCH	VN	-30	-51.64	-0.02037	PASS
					-20	-12.15	-0.00479	PASS
					-10	-10.27	-0.00405	PASS
					0	-6.79	-0.00268	PASS
					10	-9.51	-0.00375	PASS
					20	-1.34	-0.00053	PASS
					30	-11.90	-0.00469	PASS
					40	7.08	0.00279	PASS
					50	-6.75	-0.00266	PASS
		HCH	VN	-30	0.14	0.00005	PASS	
				-20	-1.23	-0.00048	PASS	
				-10	2.55	0.00099	PASS	
				0	-0.01	0	PASS	
				10	0.87	0.00034	PASS	
				20	0.56	0.00022	PASS	
				30	1.16	0.00045	PASS	
				40	-1.75	-0.00068	PASS	
				50	-3.78	-0.00147	PASS	
		15	LCH	VN	-30	2.62	0.00104	PASS
					-20	2.56	0.00102	PASS
					-10	2.19	0.00087	PASS
					0	1.47	0.00059	PASS
					10	0.41	0.00016	PASS
					20	2.66	0.00106	PASS
					30	0.00	0	PASS
					40	-2.56	-0.00102	PASS
					50	-0.80	-0.00032	PASS
MCH	VN		-30	0.11	0.00004	PASS		
-20	-15.64	-0.00617	PASS					



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict	
					-10	-2.20	-0.00087	PASS	
					0	-13.18	-0.0052	PASS	
					10	-2.57	-0.00101	PASS	
					20	-15.62	-0.00616	PASS	
					30	-1.47	-0.00058	PASS	
					40	-0.06	-0.00002	PASS	
					50	-2.10	-0.00083	PASS	
			HCH	VN	-30	-1.44	-0.00056	PASS	
					-20	-2.05	-0.0008	PASS	
					-10	-2.33	-0.00091	PASS	
					0	-3.69	-0.00144	PASS	
					10	-2.40	-0.00094	PASS	
					20	-2.37	-0.00092	PASS	
					30	-2.36	-0.00092	PASS	
			20	LCH	VN	-30	-2.22	-0.00088	PASS
						-20	-0.44	-0.00018	PASS
		-10				-0.97	-0.00039	PASS	
		0				-1.30	-0.00052	PASS	
		10				-2.63	-0.00105	PASS	
		20				-5.39	-0.00215	PASS	
		30				-3.18	-0.00127	PASS	
		MCH		VN	-30	-4.23	-0.00167	PASS	
					-20	-1.89	-0.00075	PASS	
					-10	-3.78	-0.00149	PASS	
					0	-3.53	-0.00139	PASS	
					10	0.10	0.00004	PASS	
					20	-3.85	-0.00152	PASS	
					30	-2.12	-0.00084	PASS	
		HCH	VN	-30	-1.59	-0.00062	PASS		
				-20	-1.44	-0.00056	PASS		
				-10	0.26	0.0001	PASS		
				0	1.77	0.00069	PASS		



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict			
		5	LCH	VN	10	-0.10	-0.00004	PASS			
					20	-0.39	-0.00015	PASS			
					30	-1.34	-0.00052	PASS			
					40	-1.02	-0.0004	PASS			
					50	0.56	0.00022	PASS			
	LTE/TM2					LCH	VN	-30	-2.55	-0.00102	PASS
								-20	-4.66	-0.00186	PASS
								-10	-1.76	-0.0007	PASS
								0	-0.62	-0.00025	PASS
								10	-0.99	-0.0004	PASS
								20	-3.49	-0.00139	PASS
								30	-4.72	-0.00189	PASS
								40	-2.40	-0.00096	PASS
								50	-4.08	-0.00163	PASS
								MCH	VN	-30	-1.26
						-20	-4.03			-0.00159	PASS
						-10	-2.13			-0.00084	PASS
						0	-22.06			-0.0087	PASS
						10	-3.96			-0.00156	PASS
						HCH	VN	20	-30.64	-0.01209	PASS
								30	-27.94	-0.01102	PASS
								40	-3.00	-0.00118	PASS
								50	-4.94	-0.00195	PASS
								-30	1.23	0.00048	PASS
								-20	-1.42	-0.00055	PASS
								-10	-31.57	-0.0123	PASS
								0	-1.72	-0.00067	PASS
								10	-5.81	-0.00226	PASS
								20	-26.97	-0.0105	PASS
						10	LCH	VN	30	0.14	0.00005
	40				-22.93				-0.00893	PASS	
	50				-14.39				-0.0056	PASS	
	-30				-0.26				-0.0001	PASS	
-20	-3.81	-0.00152	PASS								
-10	-3.26	-0.0013	PASS								
					0	-0.70	-0.00028	PASS			
					10	-2.78	-0.00111	PASS			
					20	-1.72	-0.00069	PASS			



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					30	-5.69	-0.00227	PASS
					40	-0.47	-0.00019	PASS
					50	-1.49	-0.00059	PASS
			MCH	VN	-30	-1.86	-0.00073	PASS
					-20	-3.75	-0.00148	PASS
					-10	-17.21	-0.00679	PASS
					0	-2.45	-0.00097	PASS
					10	-11.14	-0.00439	PASS
					20	-1.40	-0.00055	PASS
					30	-16.87	-0.00665	PASS
					40	-1.69	-0.00067	PASS
					50	-17.15	-0.00677	PASS
			HCH	VN	-30	-3.98	-0.00155	PASS
					-20	-1.06	-0.00041	PASS
					-10	-0.56	-0.00022	PASS
					0	-2.45	-0.00096	PASS
					10	-2.79	-0.00109	PASS
					20	-11.01	-0.00429	PASS
		30			0.21	0.00008	PASS	
		15	LCH	VN	-30	-3.75	-0.0015	PASS
					-20	-0.79	-0.00032	PASS
					-10	-0.31	-0.00012	PASS
					0	0.57	0.00023	PASS
					10	-1.85	-0.00074	PASS
					20	-2.16	-0.00086	PASS
					30	-3.38	-0.00135	PASS
					40	0.21	0.00008	PASS
					50	-1.95	-0.00078	PASS
			MCH	VN	-30	-2.10	-0.00083	PASS
					-20	-1.19	-0.00047	PASS
					-10	-1.65	-0.00065	PASS
					0	-10.96	-0.00432	PASS
					10	-2.06	-0.00081	PASS
					20	-18.71	-0.00738	PASS
					30	-1.69	-0.00067	PASS
					40	-0.92	-0.00036	PASS



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					50	-12.12	-0.00478	PASS
			HCH	VN	-30	-1.40	-0.00055	PASS
					-20	-2.07	-0.00081	PASS
					-10	-5.74	-0.00224	PASS
					0	-3.75	-0.00146	PASS
					10	-3.00	-0.00117	PASS
					20	-0.59	-0.00023	PASS
					30	-0.49	-0.00019	PASS
					40	-3.98	-0.00155	PASS
					50	-2.92	-0.00114	PASS
					LCH	VN	-30	-4.38
			-20	-12.62			-0.00503	PASS
			-10	-6.48			-0.00258	PASS
			0	-8.81			-0.00351	PASS
			10	-5.61			-0.00224	PASS
			20	-5.04			-0.00201	PASS
			30	-9.16			-0.00365	PASS
			40	-5.16			-0.00206	PASS
			50	-9.00			-0.00359	PASS
			MCH	VN	-30	-4.22	-0.00166	PASS
					-20	-8.31	-0.00328	PASS
					-10	-1.77	-0.0007	PASS
					0	-2.53	-0.001	PASS
					10	-5.26	-0.00207	PASS
					20	-5.32	-0.0021	PASS
					30	-4.29	-0.00169	PASS
					40	-4.06	-0.0016	PASS
			50	-3.20	-0.00126	PASS		
		20	HCH	VN	-30	-2.27	-0.00089	PASS
					-20	-2.42	-0.00095	PASS
					-10	-1.89	-0.00074	PASS
					0	-3.30	-0.00129	PASS
					10	-3.08	-0.0012	PASS
					20	-4.76	-0.00186	PASS
					30	-4.43	-0.00173	PASS
					40	-1.40	-0.00055	PASS
					50	-5.04	-0.00197	PASS

END